



FCC RADIO TEST REPORT

FCC ID : MG3-R329451A00
Equipment : Innovative Systems Logan RCU
Brand Name : Universal Electronics
Model Name : Innovative Systems Logan RCU
Applicant : Universal Electronics
15147 N Scottsdale Rd Ste H300, Scottsdale, AZ 85254
Manufacturer : Universal Electronics
15147 N Scottsdale Rd Ste H300, Scottsdale, AZ 85254
Standard : FCC Part 15 Subpart C §15.247

The product was received on Mar. 31, 2025 and testing was performed from Apr. 02, 2025 to Apr. 21, 2025. We, Sporton International (USA) Inc, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc, the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

| Report No. | Version | Description | Issue Date |
|-------------|---------|---|---------------|
| FR250401002 | 01 | Initial issue of report | Jun. 11, 2025 |
| FR250401002 | 02 | Revise Appendix B This report is an updated version, replacing the report issued on Jun. 11, 2025. | Jun. 18, 2025 |
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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|------------------------------|--|--------------------|----------|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | Pass | - |
| 3.1 | 2.1049 | 99% Occupied Bandwidth | Pass | - |
| 3.2 | 15.247(b)(3) 15.247(b)(4) | Output Power | Pass | - |
| 3.3 | 15.247(e) | Power Spectral Density | Pass | - |
| 3.4 | 15.247(d) | Conducted Band Edges and Spurious Emission | Pass | - |
| 3.5 | 15.247(d) | Radiated Band Edges and Spurious Emission | Pass | - |
| - | 15.207 | AC Conducted Emission | Not Required | See Note |
| 3.6 | 15.203 | Antenna Requirement | Pass | - |

Note:

The power source method of the EUT is to use battery (DC power source), and there is no other AC power port, after assessing, AC Conduction Emission test is not required.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Product Feature of Equipment Under Test

| Product Feature | | |
|--|--|--|
| General Specs Bluetooth Antenna Type Bluetooth: PCB trace Antenna | | |

| Antenna information | | |
|------------------------------|-----------------|-------|
| 2400 MHz ~ 2483.5 MHz | Peak Gain (dBi) | -0.15 |

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.



1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

| | |
|---------------------------|---|
| Test Site | Sporton International (USA) Inc. |
| Test Site Location | 1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300 |
| Test Site No. | Sporton Site No. |
| | TH01-CA, 03CH02-CA |

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US1250

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2020

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.

2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

| Frequency Band | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------------|---------|----------------|---------|----------------|
| 2400-2483.5 MHz | 0 | 2402 | 21 | 2444 |
| | 1 | 2404 | 22 | 2446 |
| | 2 | 2406 | 23 | 2448 |
| | 3 | 2408 | 24 | 2450 |
| | 4 | 2410 | 25 | 2452 |
| | 5 | 2412 | 26 | 2454 |
| | 6 | 2414 | 27 | 2456 |
| | 7 | 2416 | 28 | 2458 |
| | 8 | 2418 | 29 | 2460 |
| | 9 | 2420 | 30 | 2462 |
| | 10 | 2422 | 31 | 2464 |
| | 11 | 2424 | 32 | 2466 |
| | 12 | 2426 | 33 | 2468 |
| | 13 | 2428 | 34 | 2470 |
| | 14 | 2430 | 35 | 2472 |
| | 15 | 2432 | 36 | 2474 |
| | 16 | 2434 | 37 | 2476 |
| | 17 | 2436 | 38 | 2478 |
| | 18 | 2438 | 39 | 2480 |
| | 19 | 2440 | - | - |
| | 20 | 2442 | - | - |

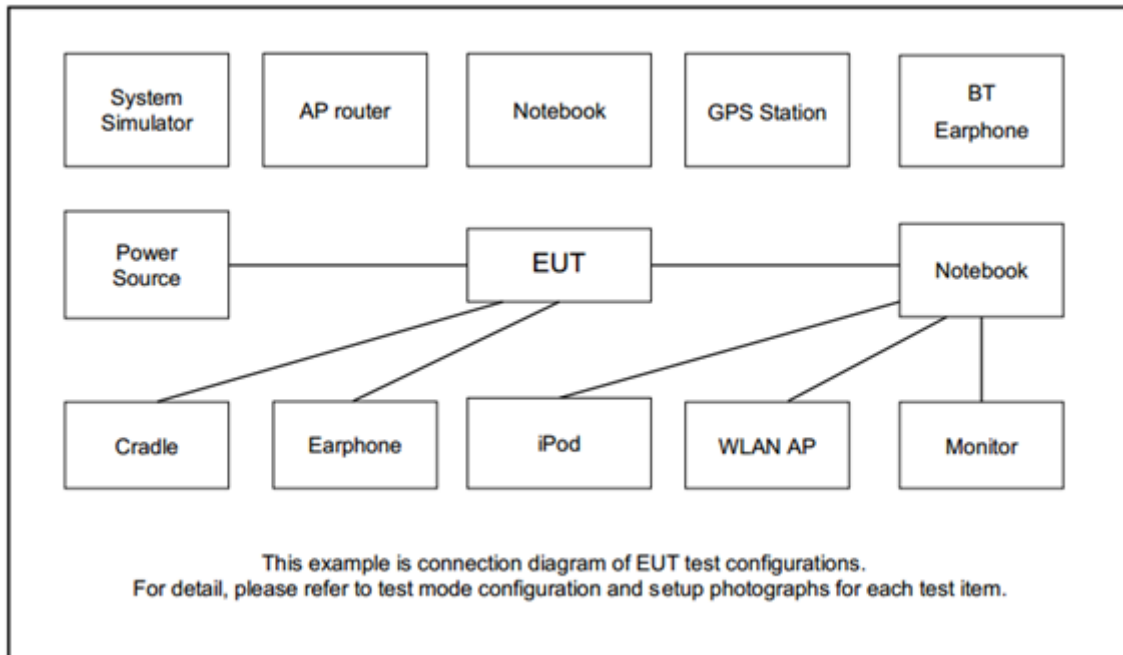
2.2 Test Mode

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

| Summary table of Test Cases | |
|--|--|
| Test Item | Data Rate / Modulation |
| Conducted Test Cases | Bluetooth – LE / GFSK |
| | Mode 1: Bluetooth Tx CH00_2402 MHz_1Mbps |
| | Mode 2: Bluetooth Tx CH19_2440 MHz_1Mbps |
| | Mode 3: Bluetooth Tx CH39_2480 MHz_1Mbps |
| Remark: | |
| 1. For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power. | |
| 2. The detailed Radiated test modes are shown in Appendix B. | |

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

The RF test items, utility “RadioControlConsole 4.0.0.0” was installed in Laptop which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10 dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

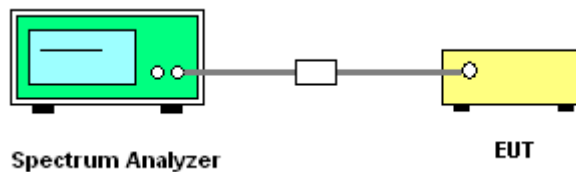
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) $\geq 3 * RBW$.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.

3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5 MHz, the limit for output power is 30 dBm. If transmitting antenna of directional gain greater than 6 dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

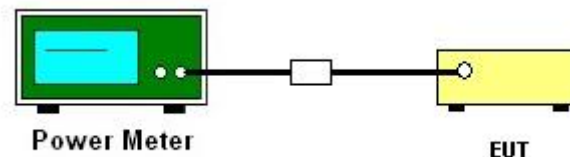
3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

1. For Average Power, the testing follows ANSI C63.10 Section 11.9.2.3.2 Method AVGPM-G
2. The RF output of EUT is connected to the power meter by RF cable and attenuator.
3. The path loss is compensated to the results for each measurement.
4. Set the maximum power setting and enable the EUT to transmit continuously.
5. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Average Output Power

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8 dBm in any 3 kHz band at any time interval of continuous transmission.

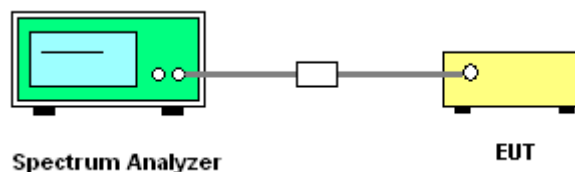
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth (VBW) = 10 kHz. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6 dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. The Measured power density (dBm)/ 100 kHz is a reference level and is used as 20 dBc down limit line for Conducted Band Edges and Conducted Spurious Emission.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission

All harmonics/spurious must be at least 30 dB down from the highest emission level within the authorized band.

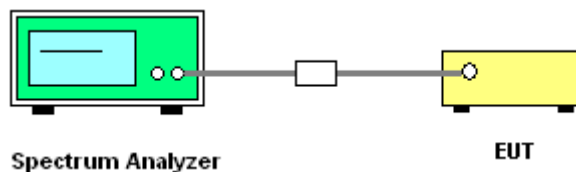
3.4.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.4.3 Test Procedure

1. The testing follows the ANSI C63.10 Section 11.11.3 Emission level measurement.
2. The RF output of EUT is connected to the spectrum analyzer by RF cable and attenuator. The path loss is compensated to the results for each measurement.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Set RBW = 100 kHz, VBW = 300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges Plots

Please refer to Appendix A.

3.4.6 Test Result of Conducted Spurious Emission Plots

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

| 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 |

3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

1. The testing follows the ANSI C63.10 Section 11.12.1 Radiated emission measurements.
2. The EUT is arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
4. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz; VBW \geq RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW = 3 MHz for $f \geq 1$ GHz for peak measurement.For average measurement:
Applied protocol-limited duty cycle measurement method as per KDB 558074 D01 QA.3
Subtracted the Peak reading to derive the RMS average value.

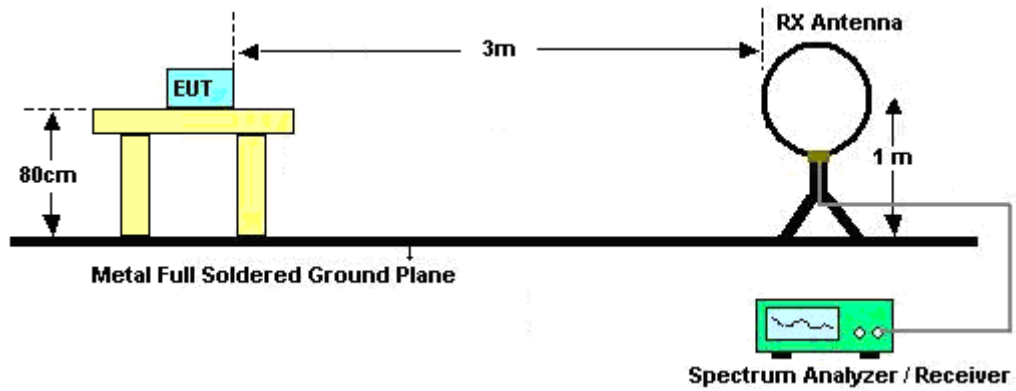
Calculation example,

Duty Cycle percentage is limited to maximum 0.589%, duty factor = $20\log(0.00589) = 44.59(\text{dB})$. Average value = Peak value (59.15dBuV/m) – 44.59 (dB) = 14.56 dBuV/m.

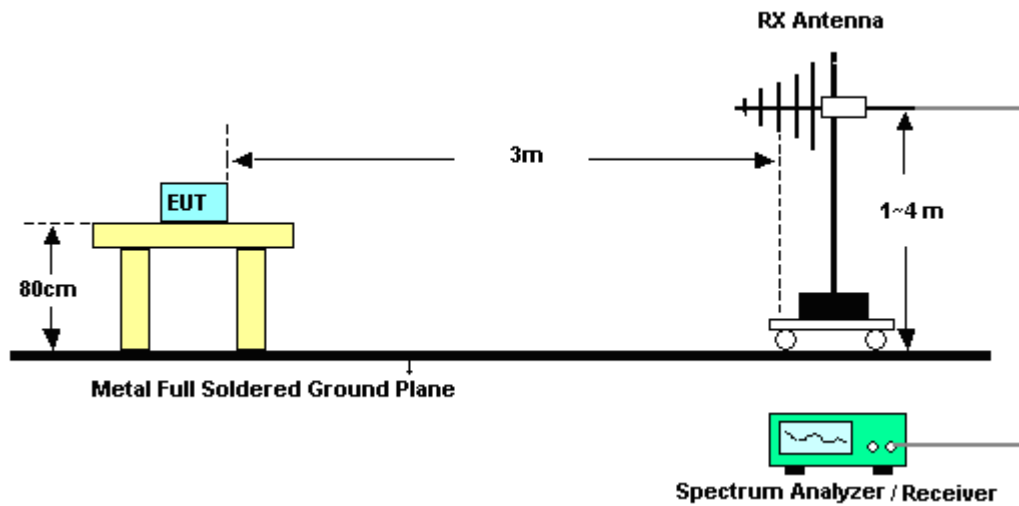
Detailed method to limit duty cycle will be addressed at the operation description from manufacturer.

3.5.4 Test Setup

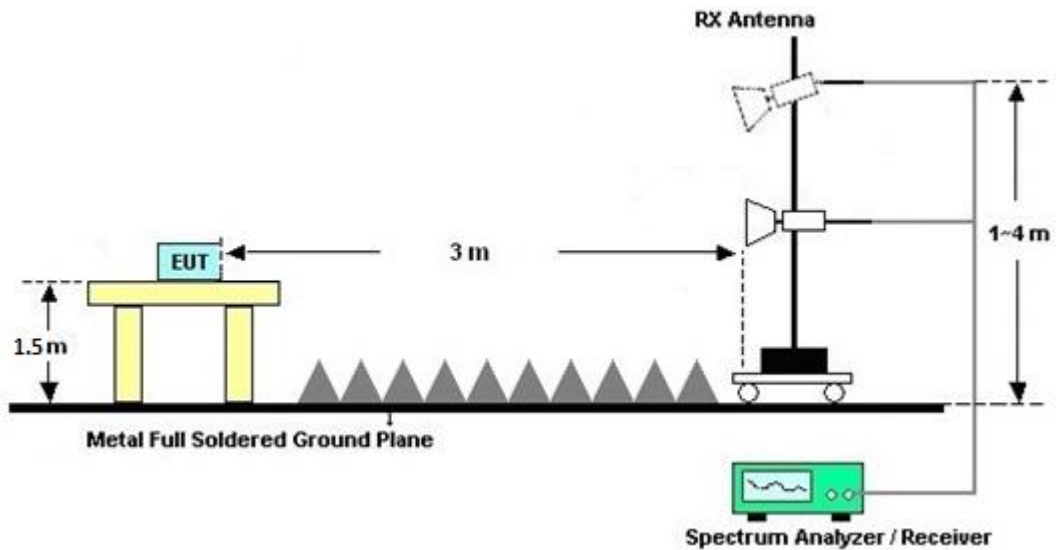
For radiated test below 30MHz



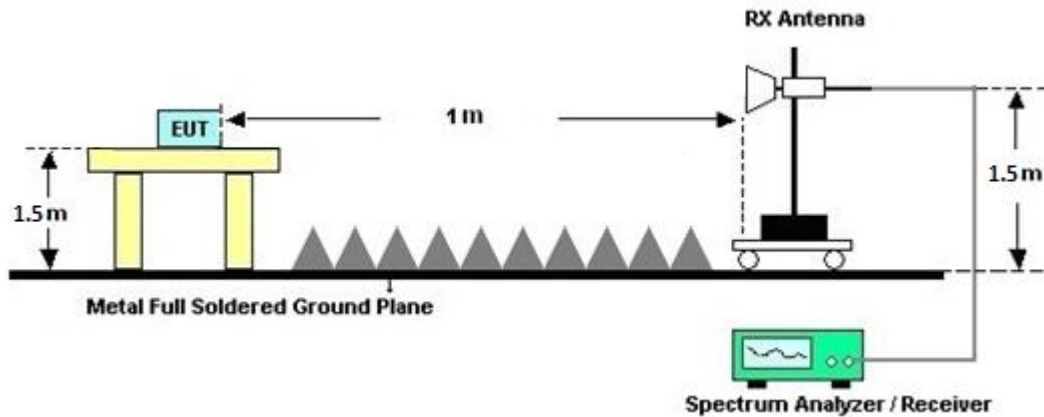
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.5.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result comes out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Duty Cycle

Please refer to Appendix C.

3.5.8 Test Result of Radiated Spurious Emission (30 MHz ~ 10th Harmonic)

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.6.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|----------------------|-----------------|-----------------------------|---|-----------------------------------|------------------|---------------------------------|---------------|-----------------------|
| Hygrometer | Testo | 608-H1 | 45141354 | N/A | Aug. 14,2024 | Apr. 21,2025 | Aug. 13,2025 | Conducted (TH01-CA) |
| Power Sensor | DARE!! | RPR3008W | RPR8W-2301002 | 10MHz-8GHz | Jan. 24,2024 | Apr. 21,2025 | Jan. 23,2026 | Conducted (TH01-CA) |
| Switch Box | EM Electronics | EMSW26 | 1090304 | N/A | Oct. 10,2024 | Apr. 21,2025 | Oct. 09,2025 | Conducted (TH01-CA) |
| Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101089 | 10Hz-40GHz | Apr. 25,2024 | Apr. 21,2025 | Apr. 24,2025 | Conducted (TH01-CA) |
| Bilog Antenna | TESEQ | 6111D | 50392 | 30MHz~1GHz | Aug. 13,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Nov. 12, 2025 | Radiation (03CH02-CA) |
| Loop Antenna | R&S | HFH2-Z2E | 100840 | 9kHz~30MHz | May 02,2024 | Apr. 02, 2025~ Apr. 03, 2025 | May 01, 2025 | Radiation (03CH02-CA) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 02140 | 1GHz~18GHz | Feb. 07,2025 | Apr. 02, 2025~ Apr. 03, 2025 | Feb. 07, 2026 | Radiation (03CH02-CA) |
| SHF-EHF Horn Antenna | SCHWARZBECK | BBHA9170 | 00841 | 18GHz~40GHz | Aug. 07,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Aug. 06, 2025 | Radiation (03CH02-CA) |
| Amplifier | SONOMA | 310N | 372240 | 9kHz~1GHz | Apr. 24,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Apr. 23, 2025 | Radiation (03CH02-CA) |
| Filter | Wainwright | WHKX10-2700-3000-18000-40SS | SN91 | 3GHz High Pass Filter | Jun. 04,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Jun. 03, 2025 | Radiation (03CH02-CA) |
| Filter | Wainwright | WLK12-1200-1272-11000-40SS | SN1 | 1.2GHz Low Pass Filter | Jun. 04,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Jun. 03, 2025 | Radiation (03CH02-CA) |
| Preamplifier | Keysight | 83017A | MY53270321 | 1GHz~26.5GHz | Apr. 25,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Apr. 24, 2025 | Radiation (03CH02-CA) |
| Preamplifier | E-instrument | ERA-100M-18G-56-01-A70 | EC1900251 | 1GHz~18GHz | Apr. 24,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Apr. 23, 2025 | Radiation (03CH02-CA) |
| Preamplifier | EMEC | EMC18G40G | 060725 | 18G-40G | Apr.24, 2024 | Apr. 02, 2025~ Apr. 03, 2025 | Apr.23, 2025 | Radiation (03CH02-CA) |
| RF Cable | HUBER+SUHNER | SUCOFLEX 102 | 804209/2, 802406/2, 802875/2, 802952/2 | N/A | Oct. 10,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Oct. 09,2025 | Radiation (03CH02-CA) |
| Hygrometer | TESEO | 608-H1 | 45142602 | N/A | Aug. 14,2024 | Apr. 02, 2025~ Apr. 03, 2025 | Aug. 13, 2025 | Radiation (03CH02-CA) |
| Controller | Chaintek | EM-1000 | 060876 | Control Turn Table & Antenna Mast | N/A | Apr. 02, 2025~ Apr. 03, 2025 | N/A | Radiation (03CH02-CA) |
| Antenna Mast | ChainTek | MBS-520-1 | N/A | 1m~4m | N/A | Apr. 02, 2025~ Apr. 03, 2025 | N/A | Radiation (03CH02-CA) |
| Turn Table | ChainTek | T-200-S-1 | N/A | 0~360 Degree | N/A | Apr. 02, 2025~ Apr. 03, 2025 | N/A | Radiation (03CH02-CA) |
| Test Software | Audix E3 | E3 | N/A | N/A | N/A | Apr. 02, 2025~ Apr. 03, 2025 | N/A | Radiation (03CH02-CA) |

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 3.4 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 5.0 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 5.4 dB |
|---|--------|

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

| | |
|---|--------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.5 dB |
|---|--------|

Appendix A. Test Result of Conducted Test Items

| | | | | |
|----------------|-------------------|--------------------|------|----|
| Test Engineer: | Venkata Kondepudi | Temperature: | 20.4 | °C |
| Test Date: | 2025/4/21 | Relative Humidity: | 49.2 | % |

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | 99% Occupied BW (MHz) | 6dB BW (MHz) | 6dB BW Limit (MHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|-----------------------|--------------|--------------------|-----------|
| BLE | 1Mbps | 1 | 0 | 2402 | 1.051 | 0.683 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 1.051 | 0.690 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 1.051 | 0.696 | 0.50 | Pass |

TEST RESULTS DATA
Average Power Table

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Average Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|-------------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE | 1Mbps | 1 | 0 | 2402 | 7.22 | 30.00 | -0.15 | 7.07 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 7.33 | 30.00 | -0.15 | 7.18 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 7.34 | 30.00 | -0.15 | 7.19 | 36.00 | Pass |

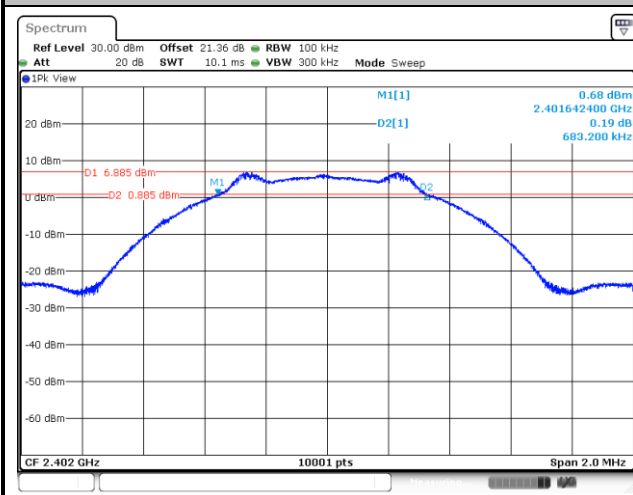
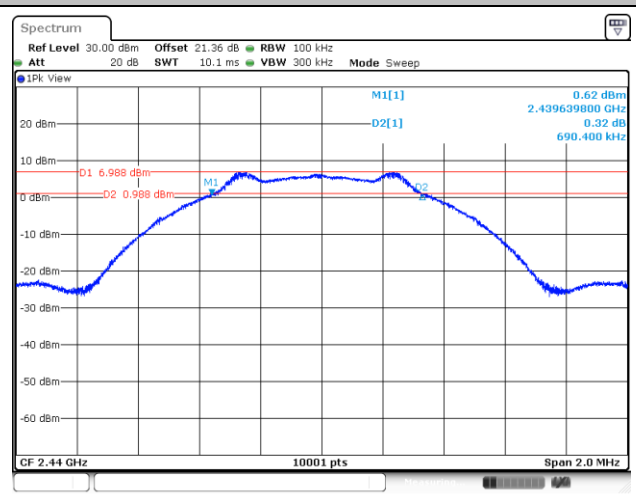
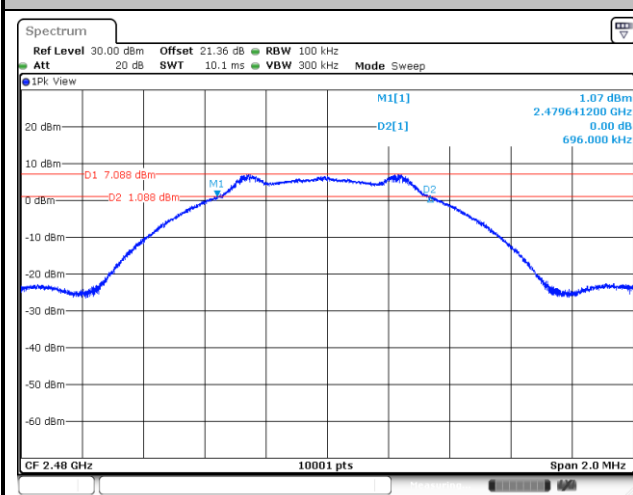
TEST RESULTS DATA
Peak Power Density

| Mod. | Data Rate | NTx | CH. | Freq. (MHz) | Peak PSD (dBm /100kHz) | Peak PSD (dBm /3kHz) | DG (dBi) | Peak PSD Limit (dBm /3kHz) | Pass/Fail |
|------|-----------|-----|-----|-------------|------------------------|----------------------|----------|----------------------------|-----------|
| BLE | 1Mbps | 1 | 0 | 2402 | 6.88 | -5.12 | -0.15 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 7.02 | -3.85 | -0.15 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 7.10 | -3.74 | -0.15 | 8.00 | Pass |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 30dBc limit.

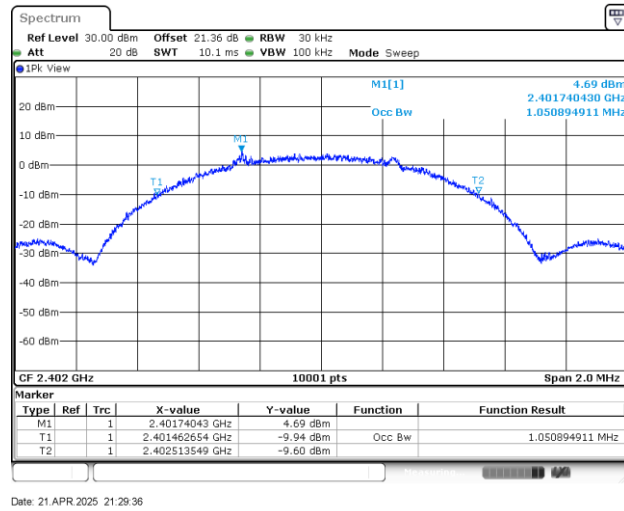
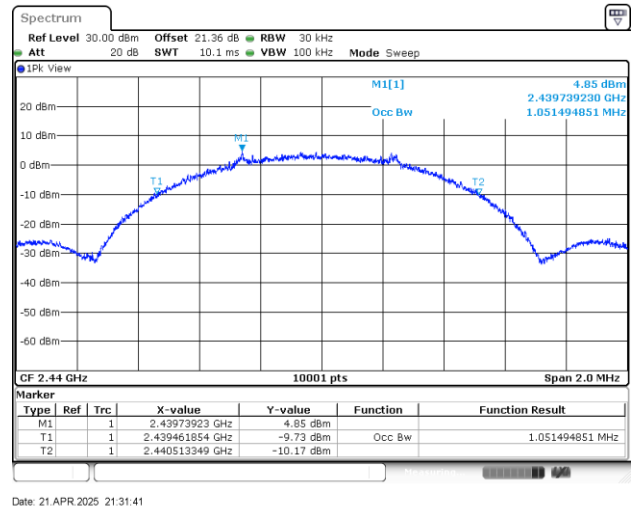
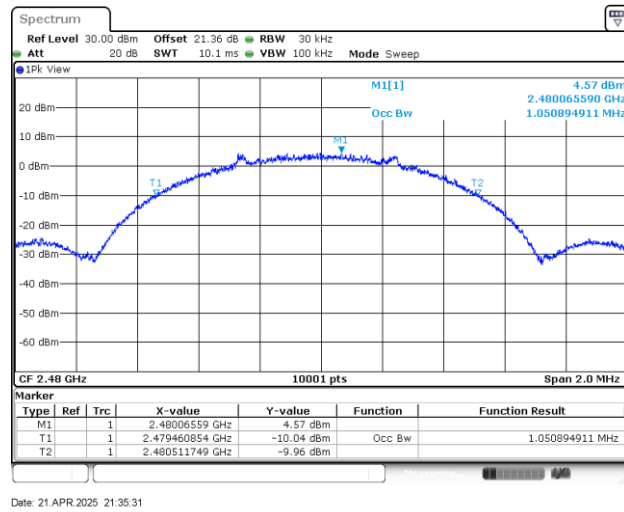
**6dB Bandwidth**

<1M>

6 dB Bandwidth Plot on Channel 00**6 dB Bandwidth Plot on Channel 19****6 dB Bandwidth Plot on Channel 39**

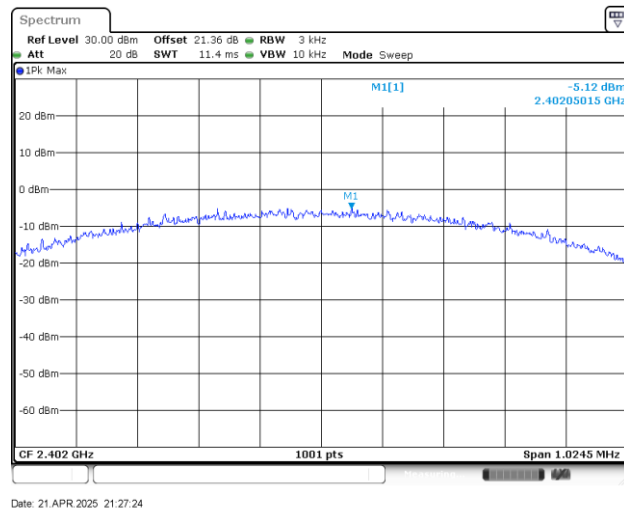
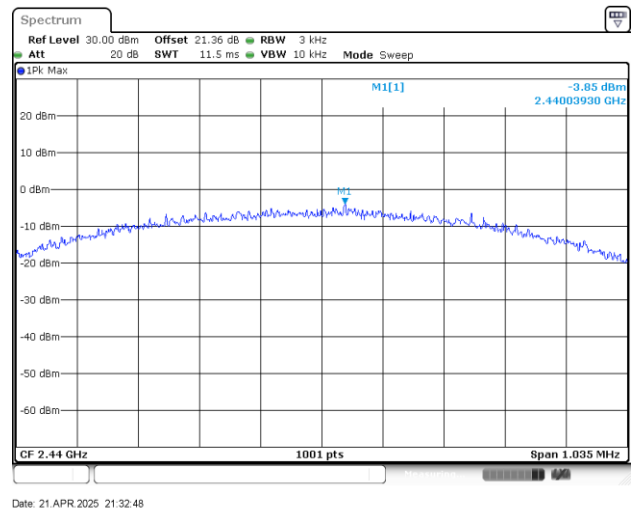
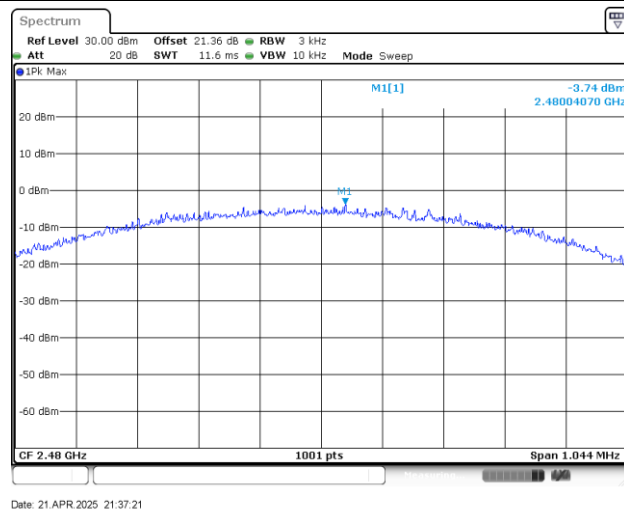
**99% Occupied Bandwidth**

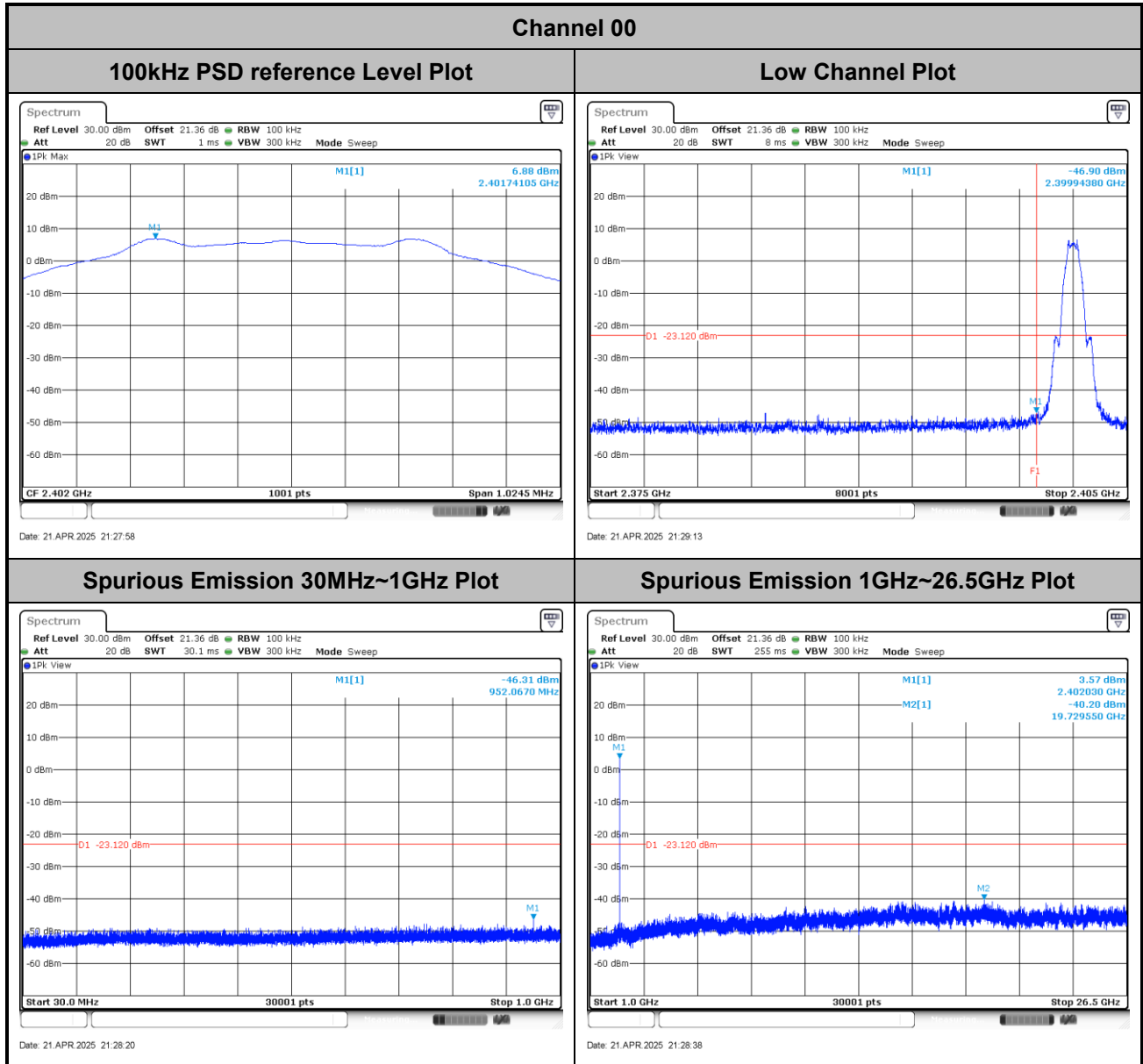
<1M>

99% Occupied Bandwidth Plot on Channel 00**99% Occupied Bandwidth Plot on Channel 19****99% Occupied Bandwidth Plot on Channel 39**

**Power Spectral Density (dBm/3kHz)**

<1M>

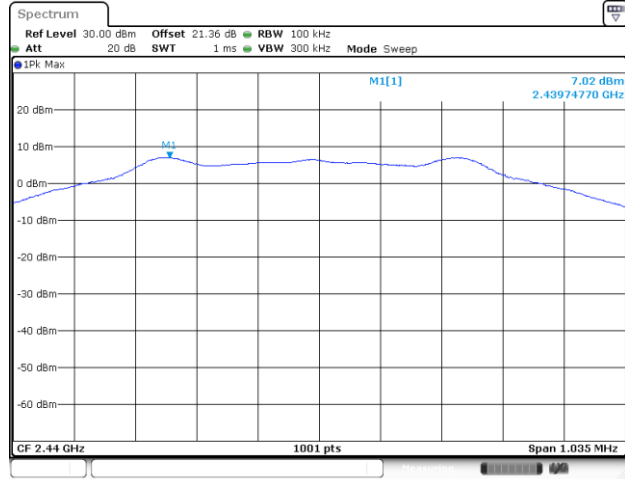
Power Density (dBm/3kHz) Plot Channel 00**Power Density (dBm/3kHz) Plot Channel 19****Power Density (dBm/3kHz) Plot Channel 39**

Band Edge and Conducted Spurious Emission
<1M>




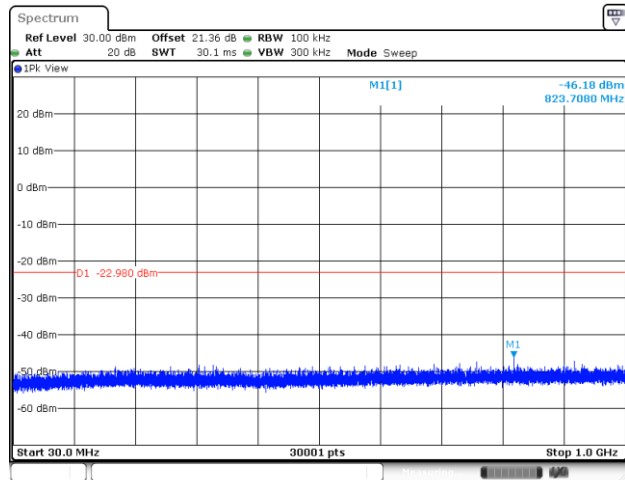
Channel 19

100kHz PSD reference Level Plot

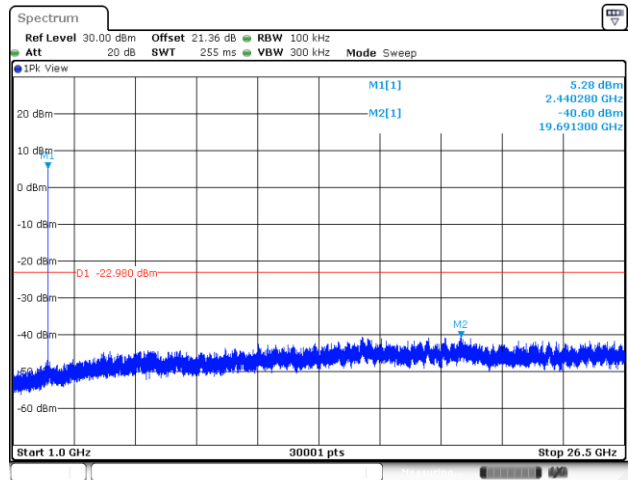


Mid Channel Plot

Spurious Emission 30MHz~1GHz Plot



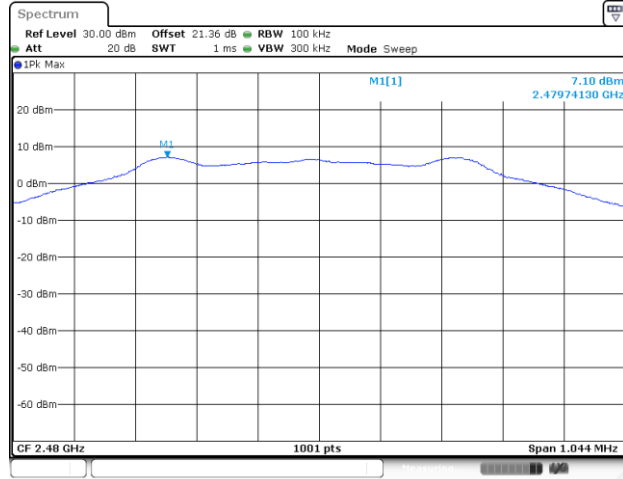
Spurious Emission 1GHz~26.5GHz Plot



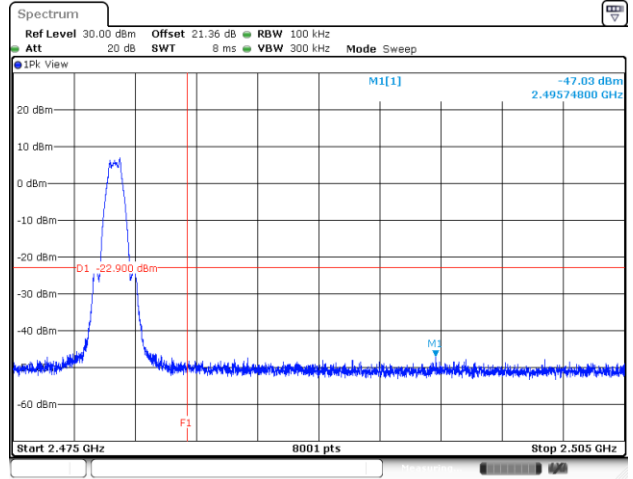


Channel 39

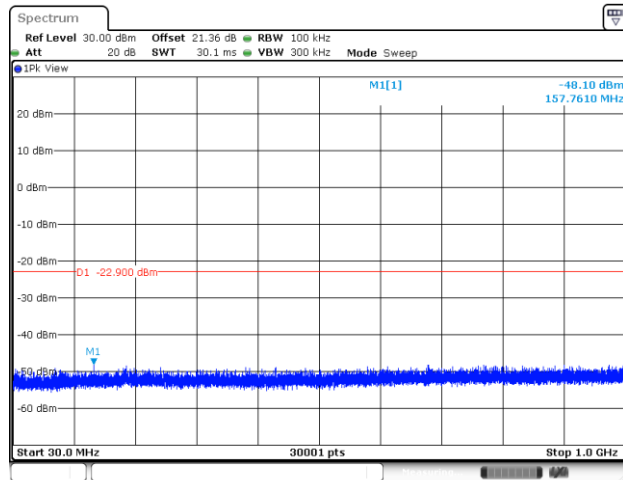
100kHz PSD reference Level Plot



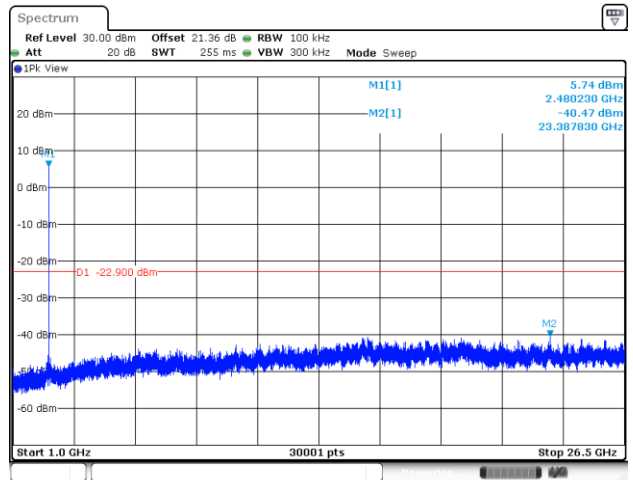
High Channel Plot



Spurious Emission 30MHz~1GHz Plot



Spurious Emission 1GHz~26.5GHz Plot



Appendix B. Radiated Spurious Emission Test Data

| | | | |
|------------------------|---------|----------------------------|-------------|
| Test Engineer : | Leo Liu | Relative Humidity : | 48.4~50.7% |
| | | Temperature : | 17.9~20.5°C |

Note symbol

| | |
|----|-----------------------|
| -L | Low channel location |
| -R | High channel location |

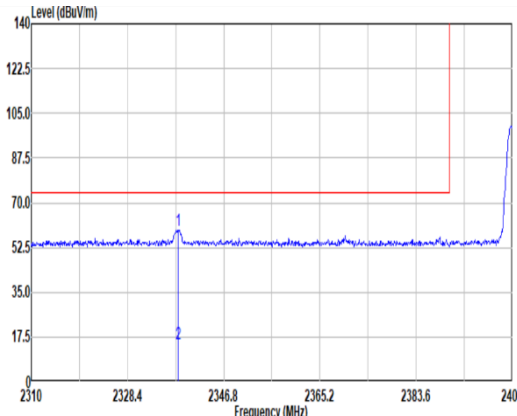
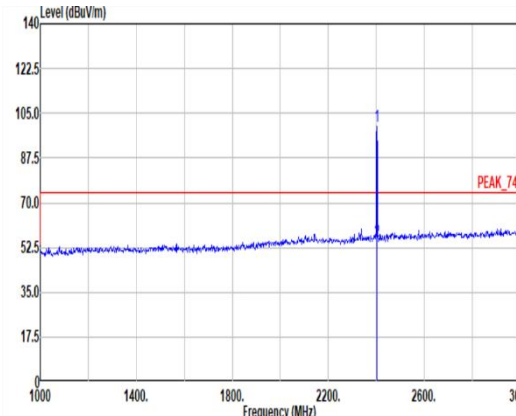
B1. Radiated Spurious Emission Test Modes

| Mode | Band (MHz) | Antenna | Modulation | Channel | Frequency | Data Rate | RU | Remark |
|--------|---------------|---------|-------------------|---------|-----------|--------------|----|--------|
| Mode 1 | 2400-2483.5 | 1 | Bluetooth-LE_GFSK | 00 | 2402 | 1Mbps | - | - |
| Mode 2 | 2400-2483.5 | 1 | Bluetooth-LE_GFSK | 19 | 2440 | 1Mbps | - | - |
| Mode 3 | 2400-2483.5 | 1 | Bluetooth-LE_GFSK | 39 | 2480 | 1Mbps | - | - |
| Mode 4 | 2400-2483.5 | 1 | Bluetooth-LE_GFSK | 00 | 2402 | 1Mbps | - | LF |
| Mode 5 | 2400-2483.5 | 1 | Bluetooth-LE_GFSK | 00 | 2402 | 1Mbps | - | SHF |

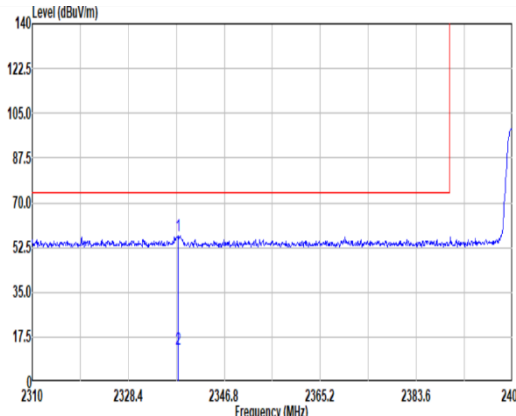
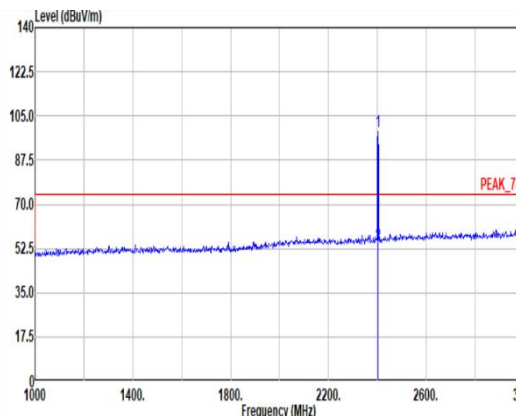
B2. Summary of each worse mode

| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | RU | Remark |
|------|-----------------------|-----|----------------|-------------------|-------------------|----------------|------|--------------|--------|----|--------------|
| 1 | Bluetooth- LE_GFSK | 00 | 2338.15 | 59.15 | 74.00 | -14.85 | H | Peak | Pass | - | Band Edge |
| | Bluetooth- LE_GFSK | 00 | 9608.00 | 56.67 | 74.00 | -17.33 | H | Peak | Pass | - | Harmonic |
| 2 | Bluetooth- LE_GFSK | 19 | 2376.04 | 59.00 | 74.00 | -15.00 | H | Peak | Pass | - | Band Edge |
| | Bluetooth- LE_GFSK | 19 | 9760.00 | 59.76 | 74.00 | -14.24 | H | Peak | Pass | - | Harmonic |
| 3 | Bluetooth- LE_GFSK | 39 | 2496.38 | 57.40 | 74.00 | -16.60 | V | Peak | Pass | - | Band Edge |
| | Bluetooth- LE_GFSK | 39 | 9920.00 | 58.69 | 74.00 | -15.31 | H | Peak | Pass | - | Harmonic |
| 4 | LF | 00 | 949.56 | 33.36 | 46.00 | -12.64 | V | Peak | Pass | - | LF |
| 5 | SHF | 00 | 24321.00 | 40.95 | 74.00 | -33.05 | H | Peak | Pass | - | SHF |

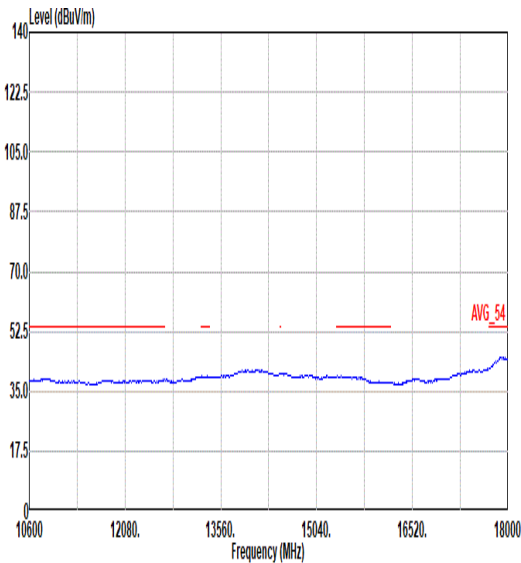
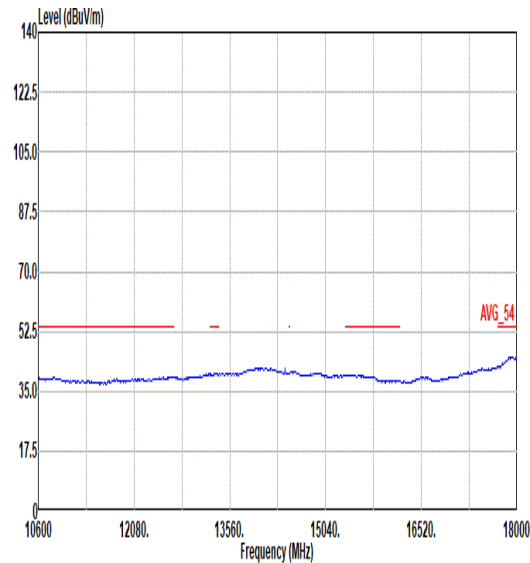


| Mode | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|--------|--------|-------|--------|--------|--------|------|-----|---------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|----|----|---------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2338.15</td><td>59.15</td><td>74.00</td><td>-14.85</td><td>45.01</td><td>27.20</td><td>8.04</td><td>31.13</td><td>10.03</td><td>100</td><td>149</td><td>PEAK</td></tr><tr><td>2</td><td>2338.15</td><td>14.56</td><td>54.00</td><td>-39.44</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2338.15 | 59.15 | 74.00 | -14.85 | 45.01 | 27.20 | 8.04 | 31.13 | 10.03 | 100 | 149 | PEAK | 2 | 2338.15 | 14.56 | 54.00 | -39.44 | -- | -- | -- | -- | -- | -- | -- | Average | <div><p>Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>99.65</td><td>-----</td><td>-----</td><td>85.08</td><td>27.47</td><td>8.15</td><td>31.08</td><td>10.03</td><td>100</td><td>149</td><td>PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>55.06</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2402.00 | 99.65 | ----- | ----- | 85.08 | 27.47 | 8.15 | 31.08 | 10.03 | 100 | 149 | PEAK | 2 | 2402.00 | 55.06 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2338.15 | 59.15 | 74.00 | -14.85 | 45.01 | 27.20 | 8.04 | 31.13 | 10.03 | 100 | 149 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2338.15 | 14.56 | 54.00 | -39.44 | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 99.65 | ----- | ----- | 85.08 | 27.47 | 8.15 | 31.08 | 10.03 | 100 | 149 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2402.00 | 55.06 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

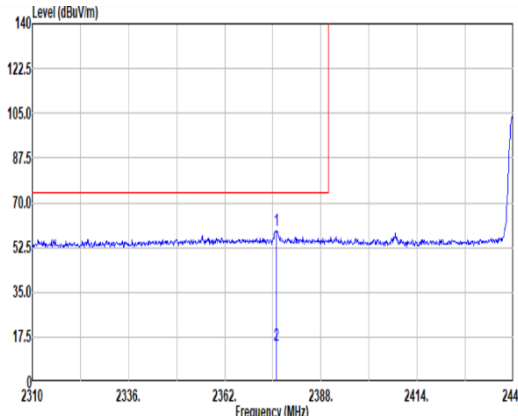
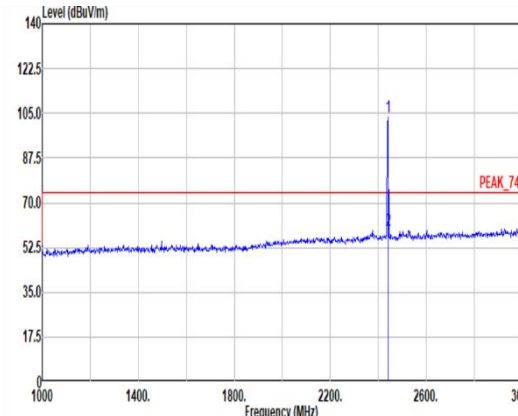


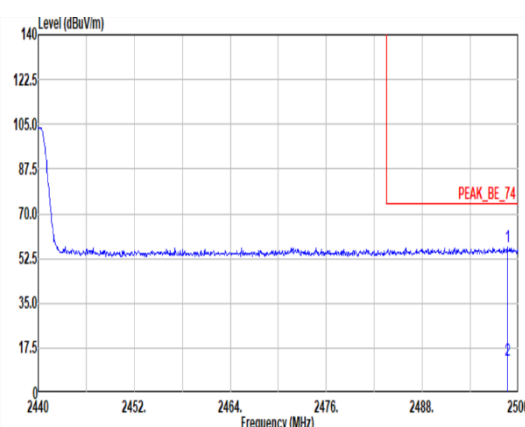
| Mode | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------|--------|--------|-------|--------|--------|--------|------|-----|---------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|----|----|---------|
| | Band Edge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2337.97</td><td>57.27</td><td>74.00</td><td>-16.73</td><td>43.10</td><td>27.23</td><td>8.04</td><td>31.13</td><td>10.03</td><td>394</td><td>190</td><td>PEAK</td></tr><tr><td>2</td><td>2337.97</td><td>12.68</td><td>54.00</td><td>-41.32</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2337.97 | 57.27 | 74.00 | -16.73 | 43.10 | 27.23 | 8.04 | 31.13 | 10.03 | 394 | 190 | PEAK | 2 | 2337.97 | 12.68 | 54.00 | -41.32 | -- | -- | -- | -- | -- | -- | -- | Average | <div><p>Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_250207 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2402.00</td><td>98.70</td><td>-----</td><td>-----</td><td>84.18</td><td>27.42</td><td>8.15</td><td>31.08</td><td>10.03</td><td>394</td><td>190</td><td>PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>54.11</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2402.00 | 98.70 | ----- | ----- | 84.18 | 27.42 | 8.15 | 31.08 | 10.03 | 394 | 190 | PEAK | 2 | 2402.00 | 54.11 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2337.97 | 57.27 | 74.00 | -16.73 | 43.10 | 27.23 | 8.04 | 31.13 | 10.03 | 394 | 190 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2337.97 | 12.68 | 54.00 | -41.32 | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 98.70 | ----- | ----- | 84.18 | 27.42 | 8.15 | 31.08 | 10.03 | 394 | 190 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2402.00 | 54.11 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



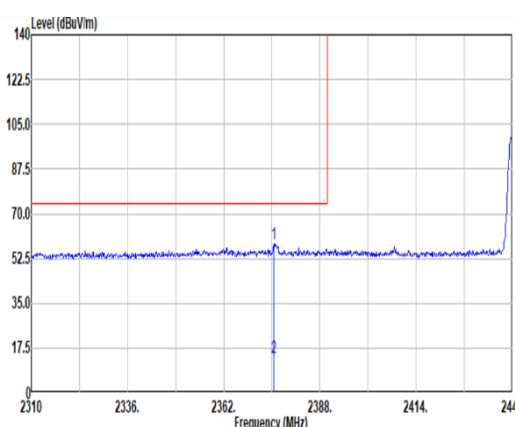
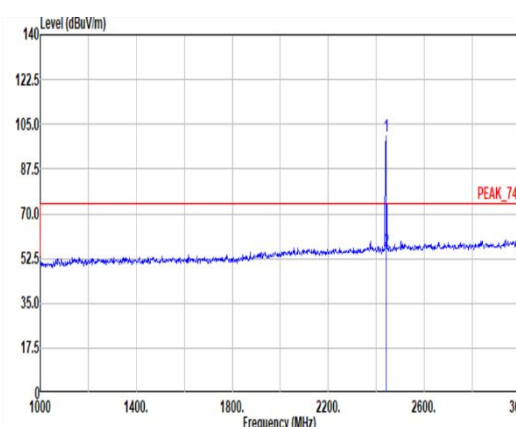
| | | |
|----------------------|--|---|
| Mode | 1 | |
| | Harmonic | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz | |
| ANT | 1 | |
| Pol. | Horizontal | Vertical |
| 10.6G ~18G Avg |  <p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 HORIZONTAL</p> |  <p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 VERTICAL</p> |

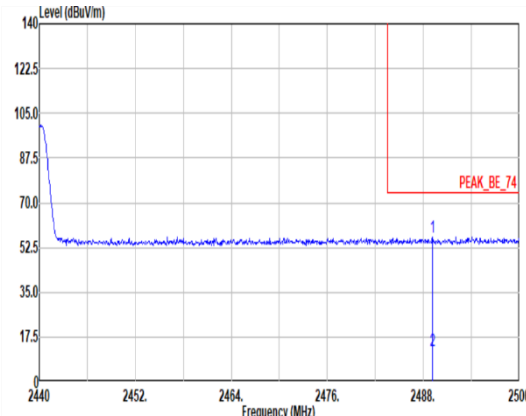


| Mode | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|-------------|--------------|-------------|--------|--------|---|-------|-------|--------|-----|--|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|-------------|--------------|-------------|--------|--------|--------|--|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|-------------|--------------|-------------|--------|--------|--------|--|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|----|----|---------|
| | Band Edge - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | | | | | | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak |  | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto | | | | | | | | | | | | Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table><tr><th></th><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2376.04</td><td>59.00</td><td>74.00</td><td>-15.00</td><td>44.60</td><td>27.36</td><td>8.11</td><td>31.10</td><td>10.03</td><td>100</td><td>157</td><td>PEAK</td></tr><tr><td>2</td><td>2376.04</td><td>14.41</td><td>54.00</td><td>-39.59</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table> | | | | | | | | | | | | | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | | | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2376.04 | 59.00 | 74.00 | -15.00 | 44.60 | 27.36 | 8.11 | 31.10 | 10.03 | 100 | 157 | PEAK | 2 | 2376.04 | 14.41 | 54.00 | -39.59 | -- | -- | -- | -- | -- | -- | -- | Average | <table><tr><th></th><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2440.00</td><td>103.00</td><td>-----</td><td>-----</td><td>88.88</td><td>27.56</td><td>8.21</td><td>31.08</td><td>10.03</td><td>100</td><td>157</td><td>PEAK</td></tr><tr><td>2</td><td>2440.00</td><td>59.01</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table> | | | | | | | | | | | | | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | | | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2440.00 | 103.00 | ----- | ----- | 88.88 | 27.56 | 8.21 | 31.08 | 10.03 | 100 | 157 | PEAK | 2 | 2440.00 | 59.01 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |
| | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | | | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2376.04 | 59.00 | 74.00 | -15.00 | 44.60 | 27.36 | 8.11 | 31.10 | 10.03 | 100 | 157 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2376.04 | 14.41 | 54.00 | -39.59 | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | Factor | | | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 103.00 | ----- | ----- | 88.88 | 27.56 | 8.21 | 31.08 | 10.03 | 100 | 157 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2440.00 | 59.01 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Mode | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|-------------|--------|-------|--------|-------|--------|--------|--------------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|-----|--------|--------|----|------|------|----|----|----|-----|-----------|-------|-------|--------|-------|-------|------|-------|-------|--------------|-----------|-------|-------|--------|----|----|----|----|----|------------|-------|
| | Band Edge - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto</p><table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 2498.62</td><td>57.15</td><td>74.00</td><td>-16.85</td><td>42.18</td><td>27.68</td><td>8.31</td><td>31.05</td><td>10.03</td><td>100 157 PEAK</td></tr><tr><td>2 2498.62</td><td>12.56</td><td>54.00</td><td>-41.44</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>-- Average</td></tr></tbody></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 2498.62 | 57.15 | 74.00 | -16.85 | 42.18 | 27.68 | 8.31 | 31.05 | 10.03 | 100 157 PEAK | 2 2498.62 | 12.56 | 54.00 | -41.44 | -- | -- | -- | -- | -- | -- Average | Blank |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 2498.62 | 57.15 | 74.00 | -16.85 | 42.18 | 27.68 | 8.31 | 31.05 | 10.03 | 100 157 PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 2498.62 | 12.56 | 54.00 | -41.44 | -- | -- | -- | -- | -- | -- Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| Mode | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|-------------|--------|--------|-------------|-------|--------|-----|-------|---------|-----|------|------|--|------|-------|-------------|--------------|-------------|--------|--------|--|--|--------|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|---|--|--|--|--|--|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|-------------|--------------|-------------|--------|--------|--|--|--------|-----|--------|--------|----|------|------|----|----|----|----|-----|---|---------|--------|-------|-------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|-------|----|----|----|----|----|----|----|---------|
| | Band Edge - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | | | | | | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2375.52</td><td>58.33</td><td>74.00</td><td>-15.67</td><td>43.97</td><td>27.33</td><td>8.10</td><td>31.10</td><td>10.03</td><td>354</td><td>189</td><td>Peak</td></tr><tr><td>2</td><td>2375.52</td><td>13.74</td><td>54.00</td><td>-40.26</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | | | | | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2375.52 | 58.33 | 74.00 | -15.67 | 43.97 | 27.33 | 8.10 | 31.10 | 10.03 | 354 | 189 | Peak | 2 | 2375.52 | 13.74 | 54.00 | -40.26 | -- | -- | -- | -- | -- | -- | -- | Average | <div><p>Site : 03CH02-CA Condition: PEAK_74 3m HORN_02140_250207 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2440.00</td><td>100.15</td><td>-----</td><td>-----</td><td>85.39</td><td>27.60</td><td>8.21</td><td>31.08</td><td>10.03</td><td>354</td><td>189</td><td>PEAK</td></tr><tr><td>2</td><td>2440.00</td><td>55.56</td><td>-----</td><td>-----</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></table></div> | | | | | | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 2440.00 | 100.15 | ----- | ----- | 85.39 | 27.60 | 8.21 | 31.08 | 10.03 | 354 | 189 | PEAK | 2 | 2440.00 | 55.56 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2375.52 | 58.33 | 74.00 | -15.67 | 43.97 | 27.33 | 8.10 | 31.10 | 10.03 | 354 | 189 | Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2375.52 | 13.74 | 54.00 | -40.26 | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 100.15 | ----- | ----- | 85.39 | 27.60 | 8.21 | 31.08 | 10.03 | 354 | 189 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2440.00 | 55.56 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| Mode | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------------|--------------|-------------|-------------|--------|--------|-------|--------|------|-----|---------|-------|-------------|--------------|-------------|-------------|--------|--|--|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|---------|-------|-------|--------|-------|-------|------|-------|-------|-----|-----|------|---|---------|-------|-------|--------|----|----|----|----|----|----|----|---------|-------|
| | Band Edge - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>Site : 03CH02-CA Condition: PEAK_BE_74 3m HORN_02140_250207 VERTICAL : RBW:1000.000kHz VBN:3000.000kHz SWT:Auto</p><table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line Margin</th><th>Level Factor</th><th>Loss Factor</th><th>Loss Factor</th><th>Factor</th><th></th><th></th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>2489.14</td><td>56.54</td><td>74.00</td><td>-17.46</td><td>41.42</td><td>27.86</td><td>8.29</td><td>31.06</td><td>10.03</td><td>354</td><td>189</td><td>PEAK</td></tr><tr><td>2</td><td>2489.14</td><td>11.95</td><td>54.00</td><td>-42.05</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>--</td><td>Average</td></tr></tbody></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | Freq | Level | Line Margin | Level Factor | Loss Factor | Loss Factor | Factor | | | Remark | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 2489.14 | 56.54 | 74.00 | -17.46 | 41.42 | 27.86 | 8.29 | 31.06 | 10.03 | 354 | 189 | PEAK | 2 | 2489.14 | 11.95 | 54.00 | -42.05 | -- | -- | -- | -- | -- | -- | -- | Average | Blank |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line Margin | Level Factor | Loss Factor | Loss Factor | Factor | | | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2489.14 | 56.54 | 74.00 | -17.46 | 41.42 | 27.86 | 8.29 | 31.06 | 10.03 | 354 | 189 | PEAK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2489.14 | 11.95 | 54.00 | -42.05 | -- | -- | -- | -- | -- | -- | -- | Average | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

2

Mode

Harmonic

2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz

ANT

1

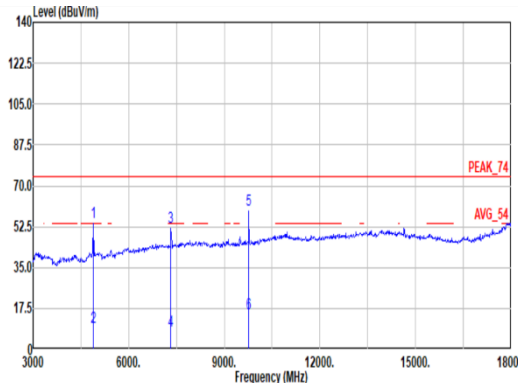
Pol.

Horizontal

Vertical

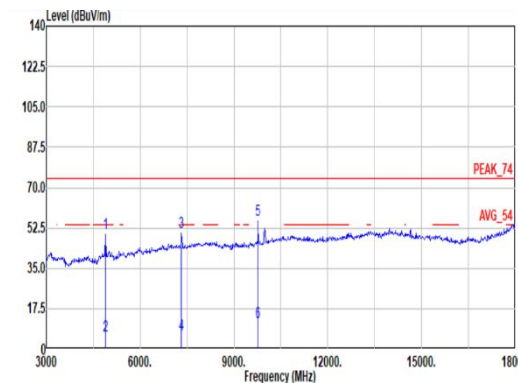
Peak

Avg



Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL

| Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | |
|-------|---------|-------|--------|--------|--------|-------|--------|--------|------|-----|-----|---------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | | | |
| 1 | 4880.00 | 54.26 | 74.00 | -19.74 | 76.70 | 32.76 | 11.70 | 67.47 | 0.57 | 105 | 104 | Peak |
| 2 | 4880.00 | 9.67 | 54.00 | -44.33 | -- | -- | -- | -- | -- | -- | -- | Average |
| 3 | 7320.00 | 52.35 | 74.00 | -21.65 | 67.61 | 36.84 | 14.53 | 66.90 | 0.27 | 100 | 89 | Peak |
| 4 | 7320.00 | 7.76 | 54.00 | -46.24 | -- | -- | -- | -- | -- | -- | -- | Average |
| 5 | 9760.00 | 59.76 | 74.00 | -14.24 | 72.46 | 38.18 | 16.90 | 68.25 | 0.47 | 400 | 340 | Peak |
| 6 | 9760.00 | 15.17 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |

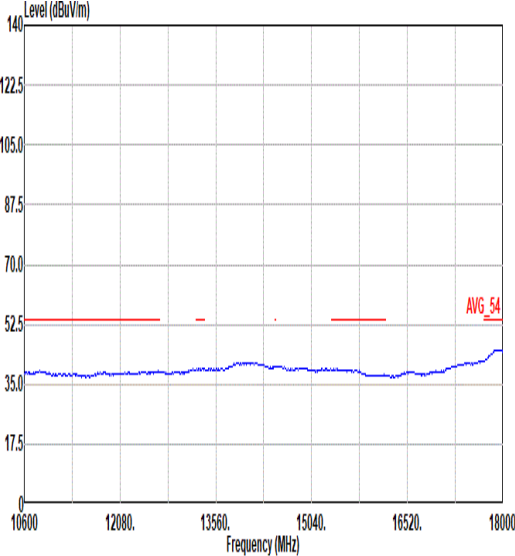
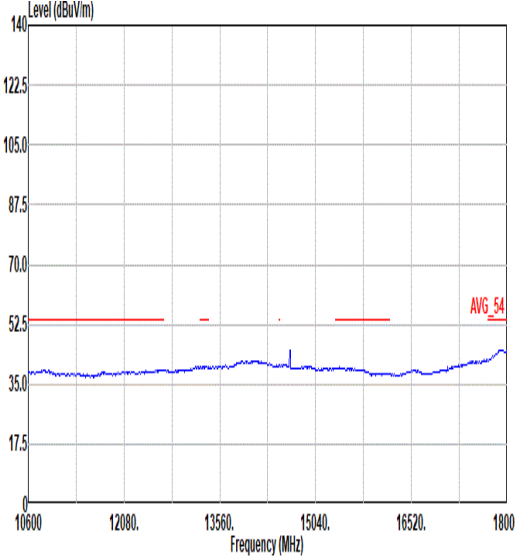


Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 VERTICAL

| Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | |
|-------|---------|-------|--------|--------|--------|-------|--------|--------|------|-----|-----|---------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | | | |
| 1 | 4880.00 | 50.45 | 74.00 | -23.55 | 72.77 | 32.88 | 11.70 | 67.47 | 0.57 | 400 | 140 | PEAK |
| 2 | 4880.00 | 5.86 | 54.00 | -48.14 | -- | -- | -- | -- | -- | -- | -- | Average |
| 3 | 7320.00 | 50.94 | 74.00 | -23.06 | 66.14 | 36.90 | 14.53 | 66.90 | 0.27 | 400 | 352 | PEAK |
| 4 | 7320.00 | 6.35 | 54.00 | -47.65 | -- | -- | -- | -- | -- | -- | -- | Average |
| 5 | 9760.00 | 56.23 | 74.00 | -17.77 | 68.77 | 38.34 | 16.90 | 68.25 | 0.47 | 400 | 22 | Peak |
| 6 | 9760.00 | 11.64 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |

Remark: The unwanted signal 9760.000MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).



| | | |
|----------------------|--|---|
| Mode | 2 | |
| | Harmonic | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH19_2440MHz | |
| ANT | 1 | |
| Pol. | Horizontal | Vertical |
| 10.6G ~18G Avg | <div><p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 HORIZONTAL</p></div> | <div><p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 VERTICAL</p></div> |



3

Mode

Band Edge

2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz

ANT

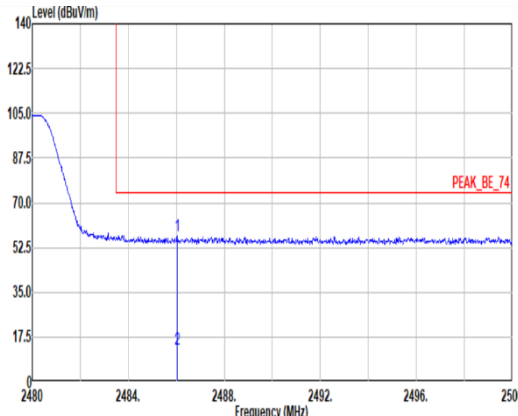
1

Pol.

Horizontal

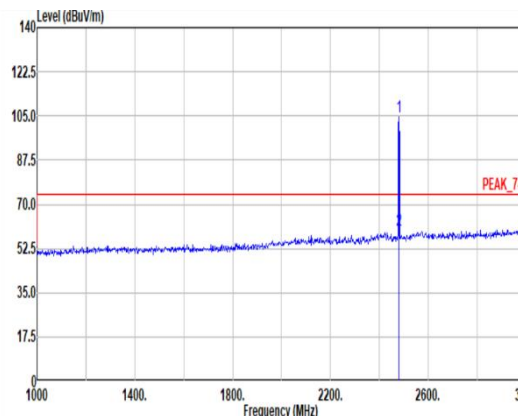
Fundamental

Peak



Site : 03CH02-CA
Condition: PEAK_BE_74 3m HORN_02140_250207 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | |
|------|---------|--------|--------|--------|--------|-------|--------|--------|--------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm |
| 1 | 2486.04 | 57.26 | 74.00 | -16.74 | 42.35 | 27.65 | 8.29 | 31.06 | 10.03 |
| 2 | 2486.04 | 12.67 | 54.00 | -41.33 | -- | -- | -- | -- | -- |



Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | |
|------|---------|--------|--------|-------|--------|-------|--------|--------|--------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm |
| 1 | 2480.00 | 104.36 | ----- | ----- | 89.47 | 27.64 | 8.28 | 31.06 | 10.03 |
| 2 | 2480.00 | 59.77 | ----- | ----- | -- | -- | -- | -- | -- |



3

Mode

Band Edge

2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz

ANT

1

Pol.

Vertical

Fundamental

Peak

Site : 03CH02-CA
Condition: PEAK_BE_74 3m HORN_02140_250207 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | |
|------|---------|-------------|--------------|-------------|--------|--------|------|-------|--------|-----|-----|---------|
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | |
| 1 | 2496.38 | 57.40 | 74.00 | -16.60 | 42.22 | 27.90 | 8.30 | 31.05 | 10.03 | 373 | 190 | PEAK |
| 2 | 2496.38 | 12.81 | 54.00 | -41.19 | -- | -- | -- | -- | -- | -- | -- | Average |

Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 VERTICAL
: RBW:1000.000kHz VBW:3000.000kHz SMT:Auto

| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | | | | |
|------|---------|-------------|--------------|-------------|--------|--------|------|-------|--------|-----|-----|---------|
| Freq | Level | Line Margin | Level Factor | Loss Factor | Factor | Factor | | | Remark | | | |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | | |
| 1 | 2480.00 | 101.89 | ----- | ----- | 86.83 | 27.61 | 8.28 | 31.06 | 10.03 | 373 | 190 | PEAK |
| 2 | 2480.00 | 57.30 | ----- | ----- | -- | -- | -- | -- | -- | -- | -- | Average |



3

Mode

Harmonic

2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz

ANT

1

Pol.

Horizontal

Vertical

Peak

Avg

Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 HORIZONTAL

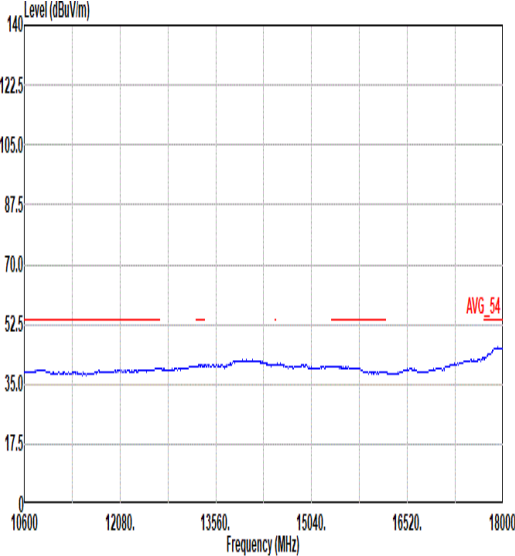
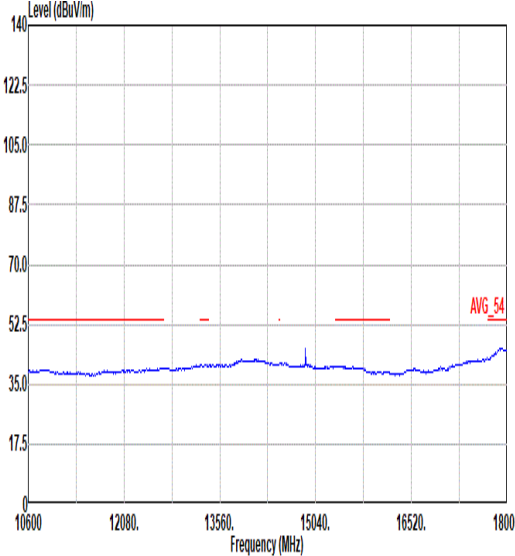
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | |
|------|---------|--------|--------|--------|--------|-------|--------|--------|-------------------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | |
| 1 | 4960.00 | 53.37 | 74.00 | -20.63 | 75.68 | 33.02 | 11.71 | 67.54 | 0.50 103 120 PEAK |
| 2 | 4960.00 | 8.77 | 54.00 | -45.23 | -- | -- | -- | -- | -- Average |
| 3 | 7440.00 | 53.94 | 74.00 | -20.06 | 69.34 | 36.56 | 14.67 | 66.93 | 0.30 100 89 PEAK |
| 4 | 7440.00 | 9.35 | 54.00 | -44.65 | -- | -- | -- | -- | -- Average |
| 5 | 9920.00 | 58.69 | 74.00 | -15.31 | 72.06 | 38.28 | 17.04 | 69.21 | 0.52 100 318 Peak |
| 6 | 9920.00 | 14.04 | ----- | ----- | -- | -- | -- | -- | -- Average |

Site : 03CH02-CA
Condition: PEAK_74 3m HORN_02140_250207 VERTICAL

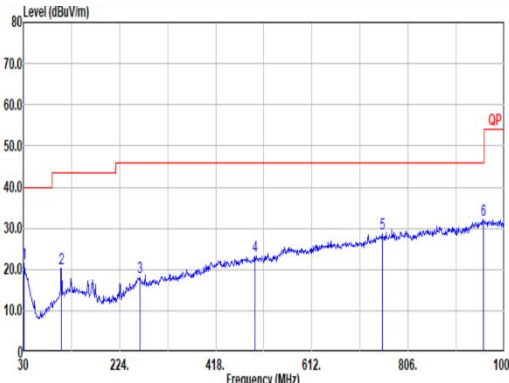
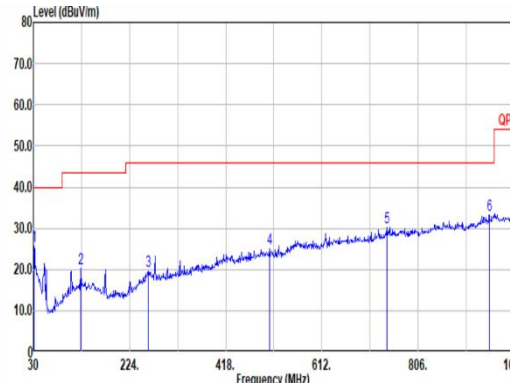
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | |
|------|---------|--------|--------|--------|--------|-------|--------|--------|-------------------|
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | |
| 1 | 4960.00 | 49.43 | 74.00 | -24.57 | 71.68 | 33.08 | 11.71 | 67.54 | 0.50 363 130 PEAK |
| 2 | 4960.00 | 4.84 | 54.00 | -49.16 | -- | -- | -- | -- | -- Average |
| 3 | 7440.00 | 51.26 | 74.00 | -22.74 | 66.61 | 36.61 | 14.67 | 66.93 | 0.30 400 350 PEAK |
| 4 | 7440.00 | 6.67 | 54.00 | -47.33 | -- | -- | -- | -- | -- Average |
| 5 | 9920.00 | 56.04 | 74.00 | -17.96 | 69.18 | 38.51 | 17.04 | 69.21 | 0.52 400 29 Peak |
| 6 | 9920.00 | 11.45 | ----- | ----- | -- | -- | -- | -- | -- Average |

Remark: The unwanted signal 9920.000MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).



| | | |
|----------------------|--|---|
| Mode | 3 | |
| | Harmonic | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH39_2480MHz | |
| ANT | 1 | |
| Pol. | Horizontal | Vertical |
| 10.6G ~18G Avg | <div><p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 HORIZONTAL</p></div> | <div><p>Site : 03CH02-CA Condition: AVG_54 3m HORN_02140_250207 VERTICAL</p></div> |



| Mode | 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|--|----------|--------|--------|--------|-------|--------|--------|-----------------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|--------|---|-------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|--------|---|-------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|---|--------|-------|-------|--------|-------|-------|------|-------|-----------------|
| | LF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ANT | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pol. | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QP/ Peak | <div><p>Site : 03CH02-CA Condition: QP 3m LF_HORN_50392_240813 HORIZONTAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>30.97</td><td>21.32</td><td>40.00</td><td>-18.68</td><td>28.47</td><td>24.29</td><td>0.94</td><td>32.46</td><td>0.08 -- -- Peak</td></tr><tr><td>2</td><td>106.63</td><td>20.26</td><td>43.50</td><td>-23.24</td><td>34.11</td><td>16.77</td><td>1.70</td><td>32.44</td><td>0.12 -- -- Peak</td></tr><tr><td>3</td><td>264.74</td><td>18.18</td><td>46.00</td><td>-27.82</td><td>27.79</td><td>19.99</td><td>2.70</td><td>32.44</td><td>0.14 -- -- Peak</td></tr><tr><td>4</td><td>496.57</td><td>23.37</td><td>46.00</td><td>-22.63</td><td>28.23</td><td>23.82</td><td>3.73</td><td>32.60</td><td>0.19 -- -- Peak</td></tr><tr><td>5</td><td>753.62</td><td>28.53</td><td>46.00</td><td>-17.47</td><td>28.08</td><td>28.11</td><td>4.54</td><td>32.42</td><td>0.22 -- -- Peak</td></tr><tr><td>6</td><td>957.32</td><td>32.10</td><td>46.00</td><td>-13.90</td><td>27.01</td><td>30.79</td><td>5.14</td><td>31.20</td><td>0.36 -- -- Peak</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm deg | 1 | 30.97 | 21.32 | 40.00 | -18.68 | 28.47 | 24.29 | 0.94 | 32.46 | 0.08 -- -- Peak | 2 | 106.63 | 20.26 | 43.50 | -23.24 | 34.11 | 16.77 | 1.70 | 32.44 | 0.12 -- -- Peak | 3 | 264.74 | 18.18 | 46.00 | -27.82 | 27.79 | 19.99 | 2.70 | 32.44 | 0.14 -- -- Peak | 4 | 496.57 | 23.37 | 46.00 | -22.63 | 28.23 | 23.82 | 3.73 | 32.60 | 0.19 -- -- Peak | 5 | 753.62 | 28.53 | 46.00 | -17.47 | 28.08 | 28.11 | 4.54 | 32.42 | 0.22 -- -- Peak | 6 | 957.32 | 32.10 | 46.00 | -13.90 | 27.01 | 30.79 | 5.14 | 31.20 | 0.36 -- -- Peak | <div><p>Site : 03CH02-CA Condition: QP 3m LF_HORN_50392_240813 VERTICAL</p><table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm deg</th></tr><tr><td>1</td><td>31.94</td><td>25.72</td><td>40.00</td><td>-14.28</td><td>33.46</td><td>23.69</td><td>0.95</td><td>32.46</td><td>0.08 -- -- Peak</td></tr><tr><td>2</td><td>126.03</td><td>20.34</td><td>43.50</td><td>-23.16</td><td>33.33</td><td>17.53</td><td>1.86</td><td>32.44</td><td>0.06 -- -- Peak</td></tr><tr><td>3</td><td>261.83</td><td>19.53</td><td>46.00</td><td>-26.47</td><td>29.05</td><td>20.10</td><td>2.68</td><td>32.43</td><td>0.13 -- -- Peak</td></tr><tr><td>4</td><td>506.27</td><td>24.97</td><td>46.00</td><td>-21.03</td><td>29.00</td><td>23.84</td><td>3.76</td><td>32.61</td><td>0.18 -- -- Peak</td></tr><tr><td>5</td><td>742.95</td><td>30.19</td><td>46.00</td><td>-15.81</td><td>29.99</td><td>27.92</td><td>4.51</td><td>32.45</td><td>0.22 -- -- Peak</td></tr><tr><td>6</td><td>949.56</td><td>33.36</td><td>46.00</td><td>-12.64</td><td>28.60</td><td>30.57</td><td>5.12</td><td>31.27</td><td>0.34 -- -- Peak</td></tr></table></div> | | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm deg | 1 | 31.94 | 25.72 | 40.00 | -14.28 | 33.46 | 23.69 | 0.95 | 32.46 | 0.08 -- -- Peak | 2 | 126.03 | 20.34 | 43.50 | -23.16 | 33.33 | 17.53 | 1.86 | 32.44 | 0.06 -- -- Peak | 3 | 261.83 | 19.53 | 46.00 | -26.47 | 29.05 | 20.10 | 2.68 | 32.43 | 0.13 -- -- Peak | 4 | 506.27 | 24.97 | 46.00 | -21.03 | 29.00 | 23.84 | 3.76 | 32.61 | 0.18 -- -- Peak | 5 | 742.95 | 30.19 | 46.00 | -15.81 | 29.99 | 27.92 | 4.51 | 32.45 | 0.22 -- -- Peak | 6 | 949.56 | 33.36 | 46.00 | -12.64 | 28.60 | 30.57 | 5.12 | 31.27 | 0.34 -- -- Peak |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.97 | 21.32 | 40.00 | -18.68 | 28.47 | 24.29 | 0.94 | 32.46 | 0.08 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 106.63 | 20.26 | 43.50 | -23.24 | 34.11 | 16.77 | 1.70 | 32.44 | 0.12 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 264.74 | 18.18 | 46.00 | -27.82 | 27.79 | 19.99 | 2.70 | 32.44 | 0.14 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 496.57 | 23.37 | 46.00 | -22.63 | 28.23 | 23.82 | 3.73 | 32.60 | 0.19 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 753.62 | 28.53 | 46.00 | -17.47 | 28.08 | 28.11 | 4.54 | 32.42 | 0.22 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 957.32 | 32.10 | 46.00 | -13.90 | 27.01 | 30.79 | 5.14 | 31.20 | 0.36 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 31.94 | 25.72 | 40.00 | -14.28 | 33.46 | 23.69 | 0.95 | 32.46 | 0.08 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 126.03 | 20.34 | 43.50 | -23.16 | 33.33 | 17.53 | 1.86 | 32.44 | 0.06 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 261.83 | 19.53 | 46.00 | -26.47 | 29.05 | 20.10 | 2.68 | 32.43 | 0.13 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 506.27 | 24.97 | 46.00 | -21.03 | 29.00 | 23.84 | 3.76 | 32.61 | 0.18 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 742.95 | 30.19 | 46.00 | -15.81 | 29.99 | 27.92 | 4.51 | 32.45 | 0.22 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 949.56 | 33.36 | 46.00 | -12.64 | 28.60 | 30.57 | 5.12 | 31.27 | 0.34 -- -- Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Mode

5

SHF

2400-2483.5_Bluetooth-LE_GFSK_CH00_2402MHz

ANT

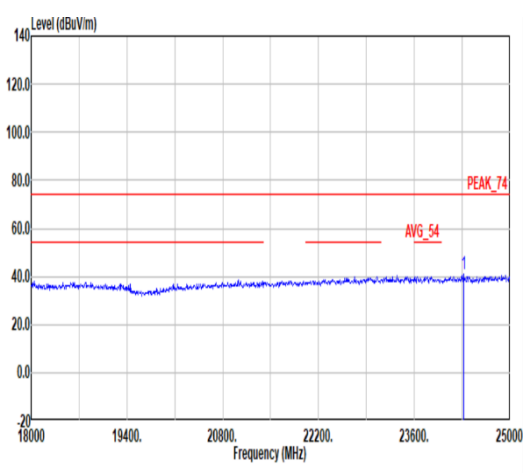
1

Pol.

Horizontal

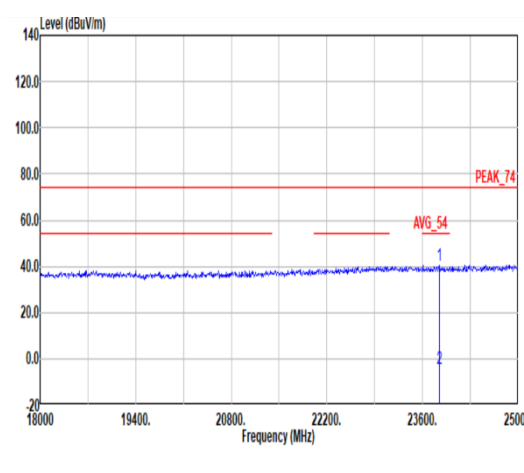
Vertical

Peak



Site : 03CH02-CA
Condition: PEAK_74 1m SHF_HORN_00841_240807 HORIZONTAL

| Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark |
|--|------|-----|-------|--------|-----|------|------|--------|
| Freq Level Line Margin Level Factor Loss Factor Factor | | | | | | | | |
| MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg | | | | | | | | |
| 1 24321.00 40.95 74.00 -33.05 36.52 38.83 27.68 52.54 -9.54 160 183 Peak | | | | | | | | |



Site : 03CH02-CA
Condition: PEAK_74 1m SHF_HORN_00841_240807 VERTICAL

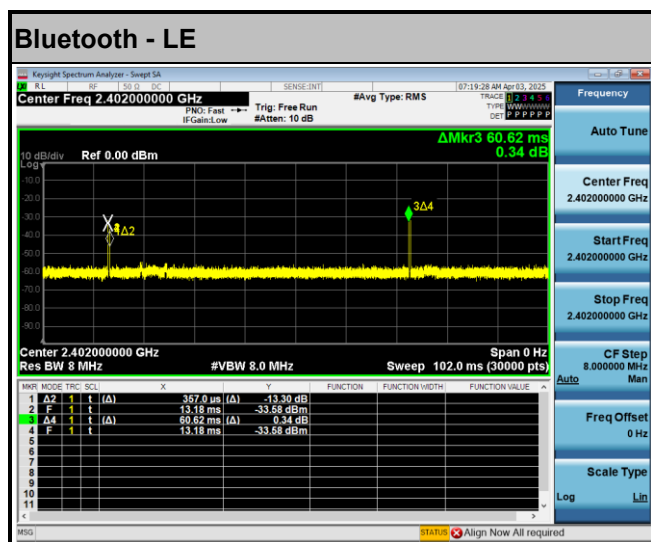
| Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark |
|--|------|-----|-------|--------|-----|------|------|--------|
| Freq Level Line Margin Level Factor Loss Factor Factor | | | | | | | | |
| MHz dBuV/m dBuV/m dB dBuV dB/m dB dB dB cm deg | | | | | | | | |
| 1 23845.00 40.54 74.00 -33.46 36.32 38.88 27.29 52.41 -9.54 160 221 Peak | | | | | | | | |
| 2 23845.00 -4.05 54.00 -58.05 -- -- -- -- -- -- -- Average | | | | | | | | |

Remark: The unwanted signal 24321MHz can be ignored since it falls within the non-restricted band and meet the requirements of 15.247 (d).



Appendix C. Duty Cycle Plots

| Band | Duty Cycle (%) | T(us) |
|----------------|----------------|-------|
| Bluetooth - LE | 0.589 | 357 |



Remark: 0.589% is used to determine the duty cycle correction factor (DCCF) in this report