



FCC RF Test Report

APPLICANT : STRZELECKI LLC
EQUIPMENT : Wireless Remote
MODEL NAME : P4C6EN
FCC ID : 2AYT9-7426
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Apr. 27, 2021 ~ Jun. 27, 2021

We, Sporton International (Kunshan) 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 of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

Alex Wang

Approved by: Alex Wang / Manager



Sporton International (Kunshan) Inc.

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People's Republic of China



TABLE OF CONTENTS

| | |
|--|-----------|
| REVISION HISTORY..... | 3 |
| SUMMARY OF TEST RESULT | 4 |
| 1 GENERAL DESCRIPTION..... | 5 |
| 1.1 Applicant..... | 5 |
| 1.2 Product Feature of Equipment Under Test..... | 5 |
| 1.3 Product Specification of Equipment Under Test..... | 5 |
| 1.4 Modification of EUT | 5 |
| 1.5 Testing Location | 6 |
| 1.6 Test Software..... | 6 |
| 1.7 Applicable Standards..... | 6 |
| 2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST..... | 7 |
| 2.1 Carrier Frequency Channel | 7 |
| 2.2 Test Mode..... | 8 |
| 2.3 Connection Diagram of Test System..... | 9 |
| 2.4 EUT Operation Test Setup | 9 |
| 2.5 Measurement Results Explanation Example..... | 10 |
| 3 TEST RESULT | 11 |
| 3.1 6dB and 99% Bandwidth Measurement | 11 |
| 3.2 Output Power Measurement..... | 20 |
| 3.3 Power Spectral Density Measurement | 21 |
| 3.4 Conducted Band Edges and Spurious Emission Measurement | 30 |
| 3.5 Radiated Band Edges and Spurious Emission Measurement | 39 |
| 3.6 Antenna Requirements | 43 |
| 4 LIST OF MEASURING EQUIPMENT..... | 44 |
| 5 UNCERTAINTY OF EVALUATION..... | 45 |
| APPENDIX A. CONDUCTED TEST RESULTS | |
| APPENDIX B. RADIATED SPURIOUS EMISSION | |
| APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS | |
| APPENDIX D. DUTY CYCLE PLOTS | |



REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-------------|---------|-------------------------|---------------|
| FR120207-01 | Rev. 01 | Initial issue of report | May 17, 2021 |
| FR120207-01 | Rev. 02 | Update BLE 2M test data | Jun. 30, 2021 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|---|--------------------|--|--------------------------------|--------------|------------------------------------|
| 3.1 | 15.247(a)(2) | 6dB Bandwidth | $\geq 0.5\text{MHz}$ | Pass | - |
| 3.1 | - | 99% Bandwidth | - | N/A | - |
| 3.2 | 15.247(b)(3) | Peak Output Power | $\leq 30\text{dBm}$ | Pass | - |
| 3.3 | 15.247(e) | Power Spectral Density | $\leq 8\text{dBm}/3\text{kHz}$ | Pass | - |
| 3.4 | 15.247(d) | Conducted Band Edges and Spurious Emission | $\leq 20\text{dBc}$ | Pass | - |
| 3.5 | 15.247(d) | Radiated Band Edges and Spurious Emission | 15.209(a) & 15.247(d) | Pass | Under limit 2.37 dB at 2483.50 MHz |
| - | 15.207 | AC Conducted Emission | 15.207(a) | Not Required | Powered by battery |
| 3.6 | 15.203 & 15.247(b) | Antenna Requirement | N/A | N/A | - |
| Remark: Not required means after assessing, test items are not necessary to carry out. | | | | | |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

STRZELECKI LLC

600 Eagleview Blvd., Suite 300 Exton, PA 19341

1.2 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|-----------------|
| Equipment | Wireless Remote |
| Model Name | P4C6EN |
| FCC ID | 2AYT9-7426 |
| EUT supports Radios application | Bluetooth LE |

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.3 Product Specification of Equipment Under Test

| Standards-related Product Specification | |
|---|--|
| Tx/Rx Frequency Range | 2402 MHz ~ 2480 MHz |
| Number of Channels | 40 |
| Carrier Frequency of Each Channel | 40 Channel(37 hopping + 3 advertising channel) |
| Maximum Output Power to Antenna | Bluetooth LE 1M: 3.15 dBm (0.0021 W) Bluetooth LE 2M: 2.98 dBm (0.0020 W) |
| 99% Occupied Bandwidth | Bluetooth LE 1M: 1.037MHz Bluetooth LE 2M: 2.068MHz |
| Antenna Type / Gain | PCB Antenna type with gain 3.80 dBi |
| Type of Modulation | Bluetooth LE : GFSK |

1.4 Modification of EUT

No modifications are made to the EUT during all test items.



1.5 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| | | | |
|---------------------------|--|----------------------------|---------------------------------------|
| Test Firm | Sporton International (Kunshan) Inc. | | |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958 | | |
| Test Site No. | Sporton Site No. | FCC Designation No. | FCC Test Firm Registration No. |
| | 03CH06-KS TH01-KS | CN1257 | 314309 |

1.6 Test Software

| Item | Site | Manufacturer | Name | Version |
|------|-----------|--------------|------|---------------|
| 1. | 03CH06-KS | AUDIX | E3 | 6.2009-8-24al |

1.7 Applicable Standards

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

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



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 | - | - |

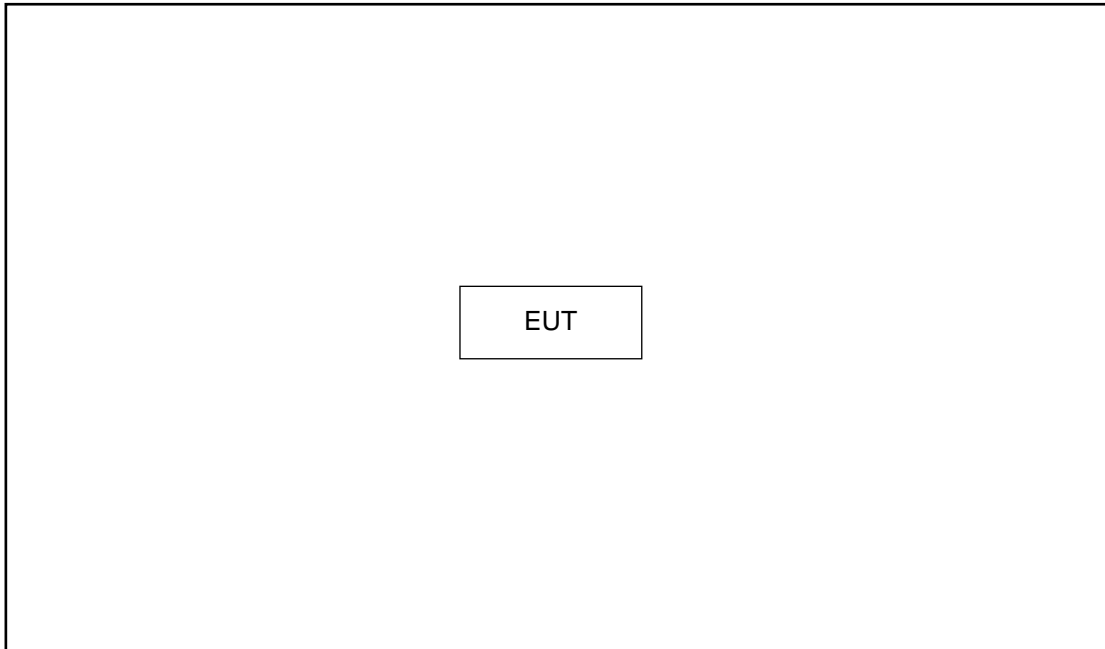
2.2 Test Mode

- 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, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X-Plane) were recorded 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 |
| | Bluetooth LE 1M & 2M / GFSK |
| Conducted TCs | Mode 1: Bluetooth Tx CH00_2402 MHz |
| | Mode 2: Bluetooth Tx CH19_2440 MHz |
| | Mode 3: Bluetooth Tx CH39_2480 MHz |
| Radiated TCs | Mode 1: Bluetooth Tx CH00_2402 MHz |
| | Mode 2: Bluetooth Tx CH19_2440 MHz |
| | Mode 3: Bluetooth Tx CH39_2480 MHz |
| Remark: For Radiated Test Cases, The tests were performed with Battery. | |

2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For BLE function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.70 dB.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.70 \text{ (dB)}\end{aligned}$$

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.

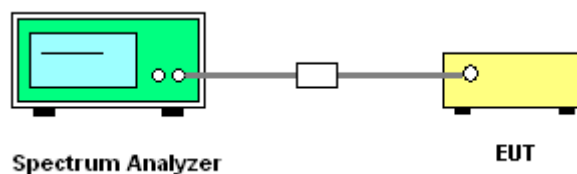
3.1.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1% to 5% of the 99% OBW and the VBW is set to 3 times of the 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.

Bluetooth v4.0 LE-1M

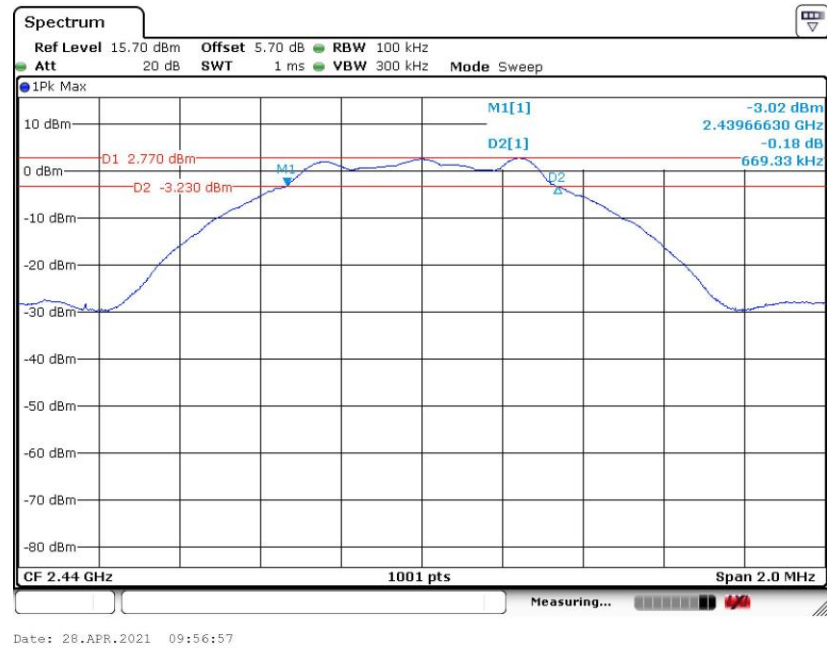
6 dB Bandwidth Plot on Channel 00



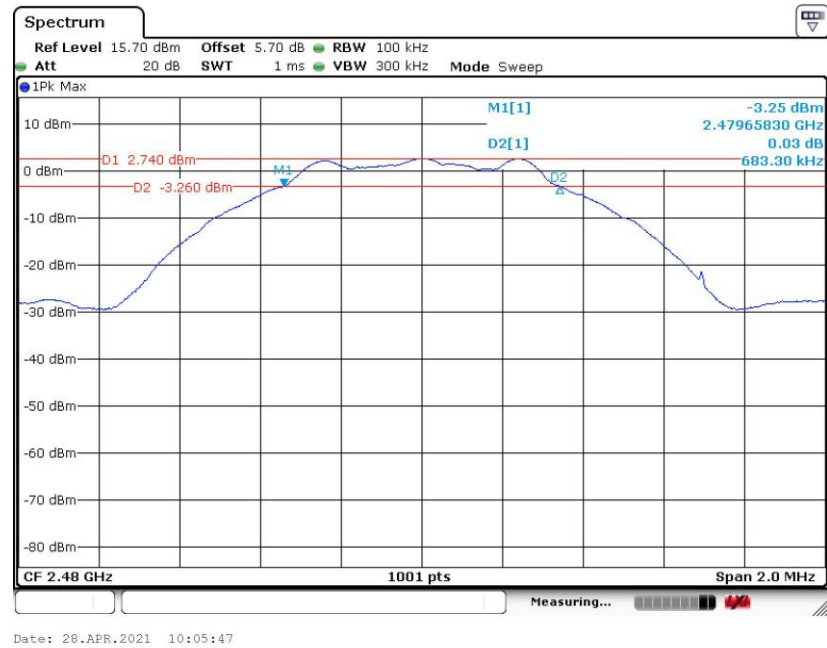
Date: 28.APR.2021 09:47:48



6 dB Bandwidth Plot on Channel 19



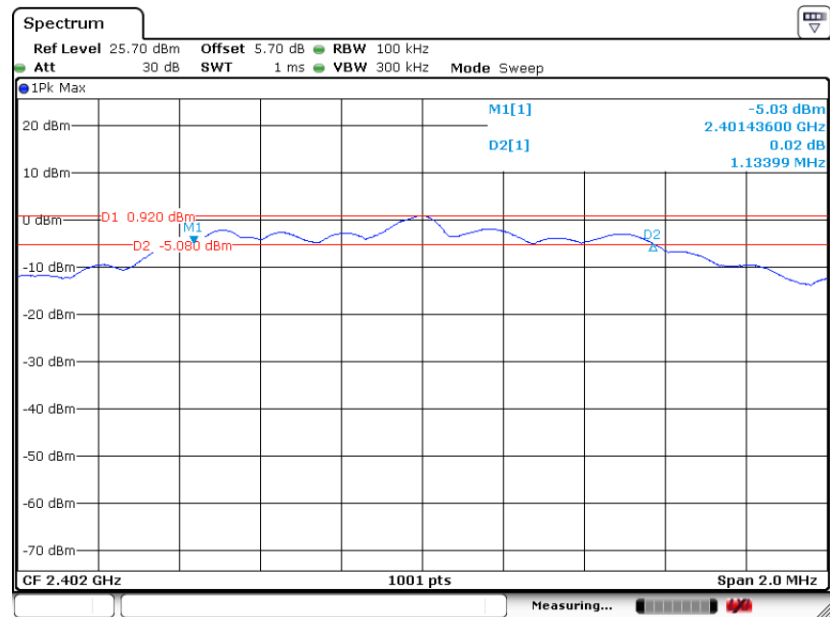
6 dB Bandwidth Plot on Channel 39





Bluetooth v5.0 LE-2M

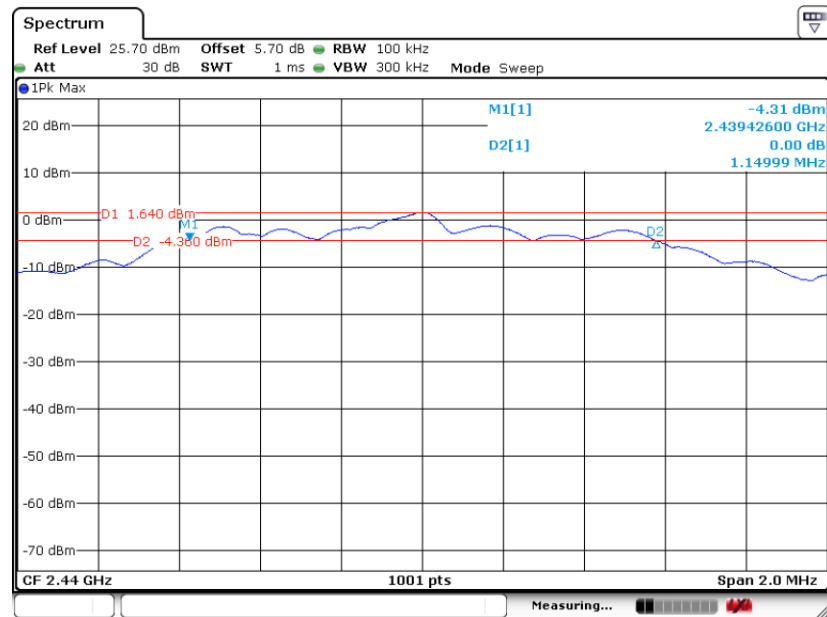
6 dB Bandwidth Plot on Channel 00



Date: 27 JUN 2021 15:07:12

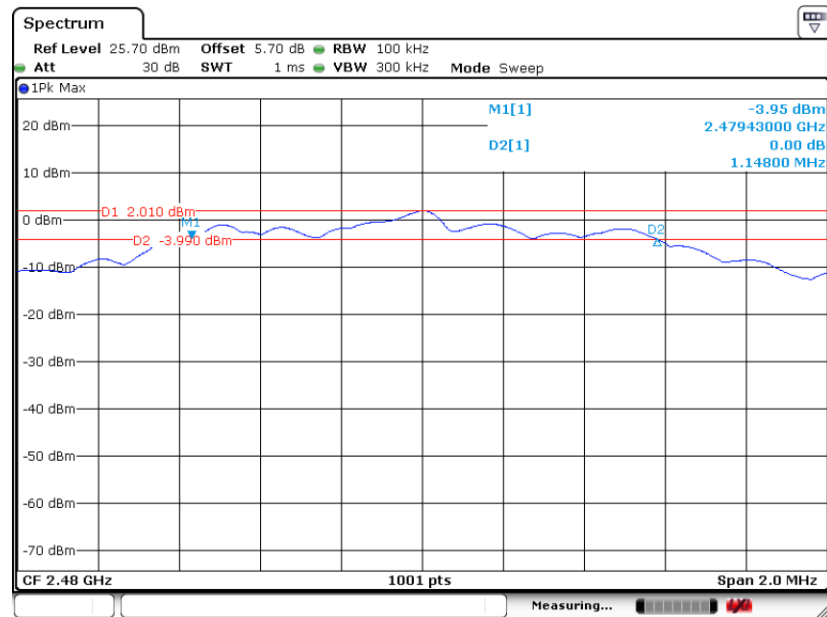


6 dB Bandwidth Plot on Channel 19



Date: 27 JUN 2021 15:12:59

6 dB Bandwidth Plot on Channel 39



Date: 27 JUN 2021 15:05:31

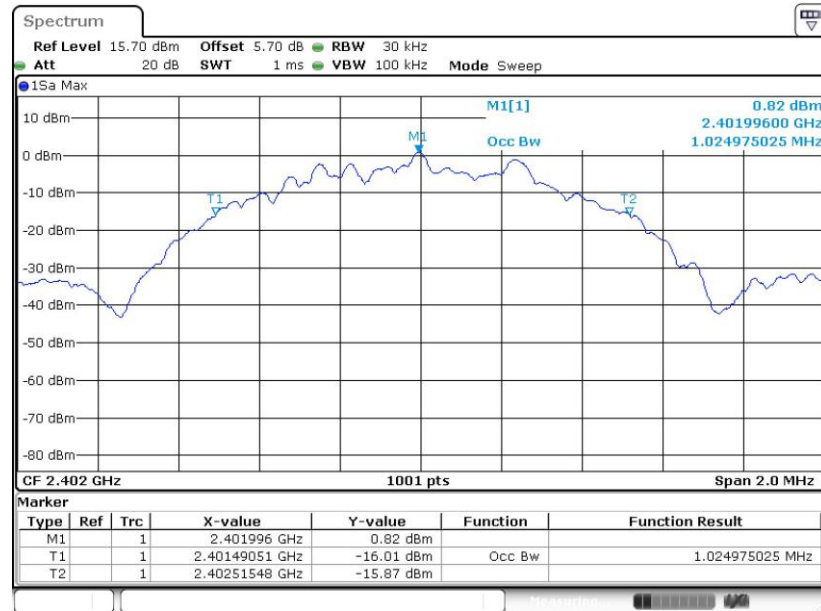


3.1.6 Test Result of 99% Occupied Bandwidth

Please refer to Appendix A.

Bluetooth v4.0 LE-1M

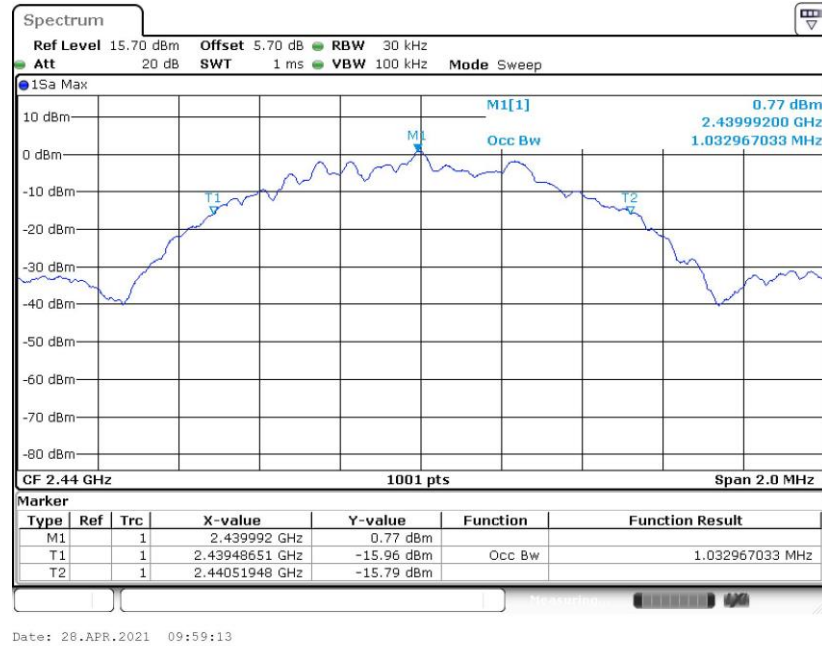
99% Occupied Bandwidth Plot on Channel 00



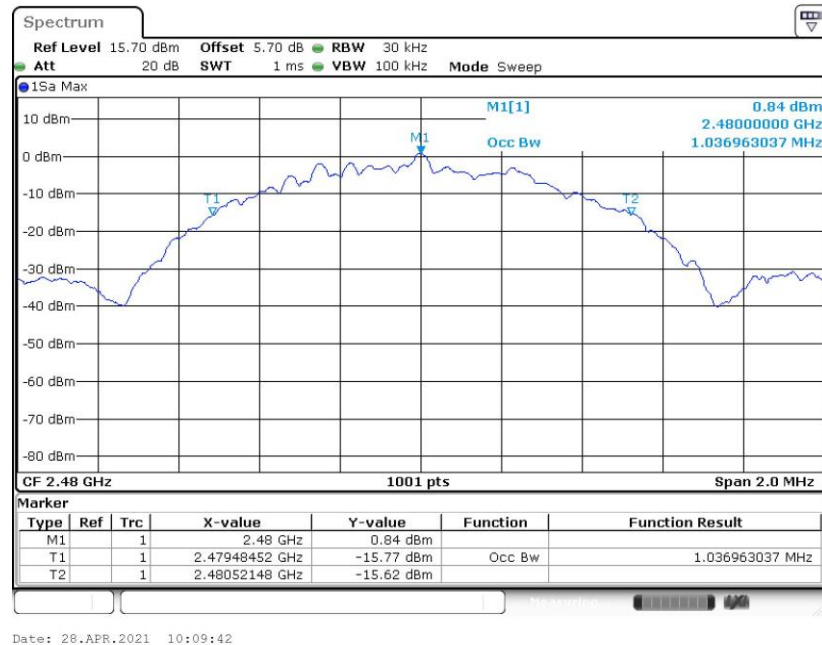
Date: 28.APR.2021 09:52:52



99% Occupied Bandwidth Plot on Channel 19



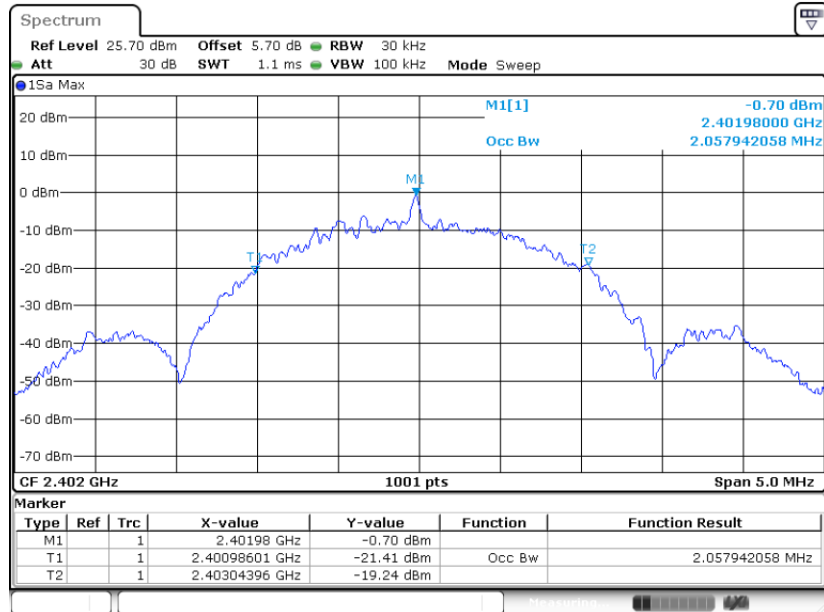
99% Occupied Bandwidth Plot on Channel 39





Bluetooth v5.0 LE-2M

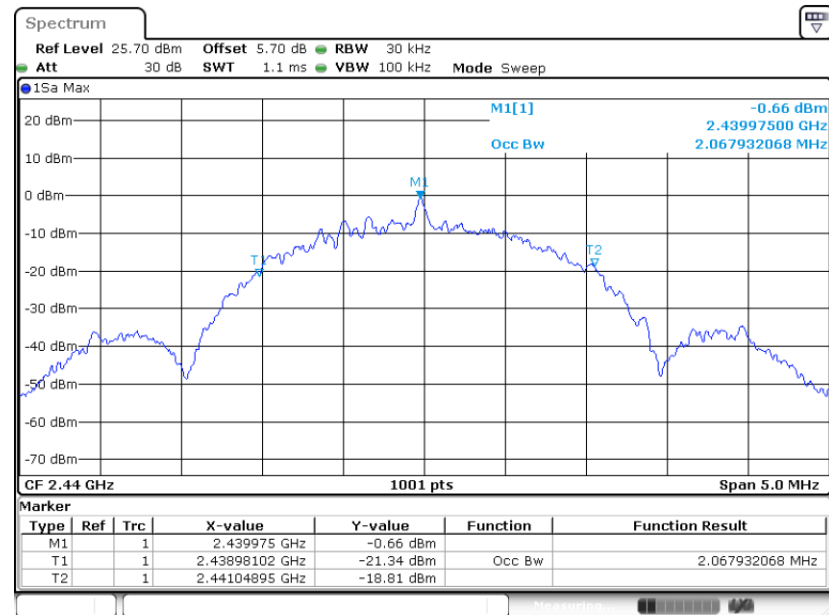
99% Occupied Bandwidth Plot on Channel 00



Date: 27 JUN 2021 14:40:03

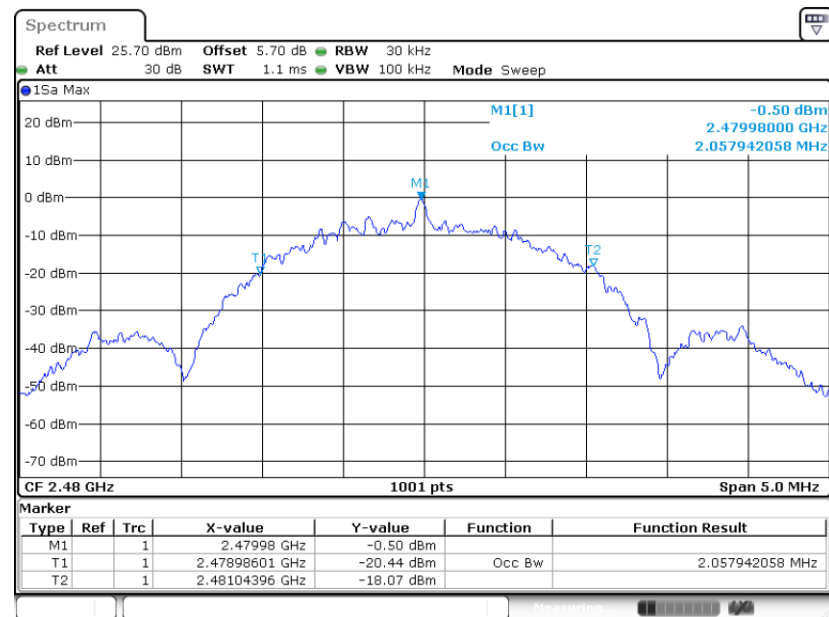


99% Occupied Bandwidth Plot on Channel 19



Date: 27 JUN 2021 15:14:19

99% Occupied Bandwidth Plot on Channel 39



Date: 27 JUN 2021 14:43:32

Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna of directional gain greater than 6dBi 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 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

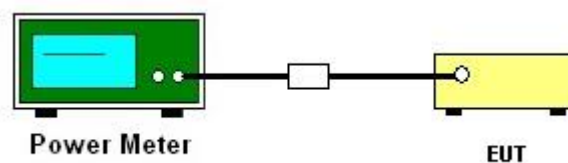
3.2.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.2 Method AVGPM-G method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

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 8dBm in any 3kHz band at any time interval of continuous transmission.

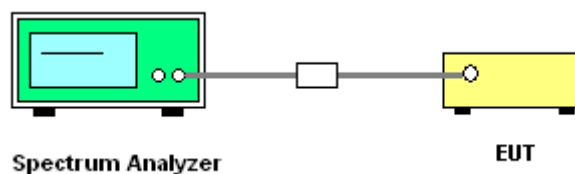
3.3.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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. (6dB 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)/ 100kHz is a reference level and used as 20dBc 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

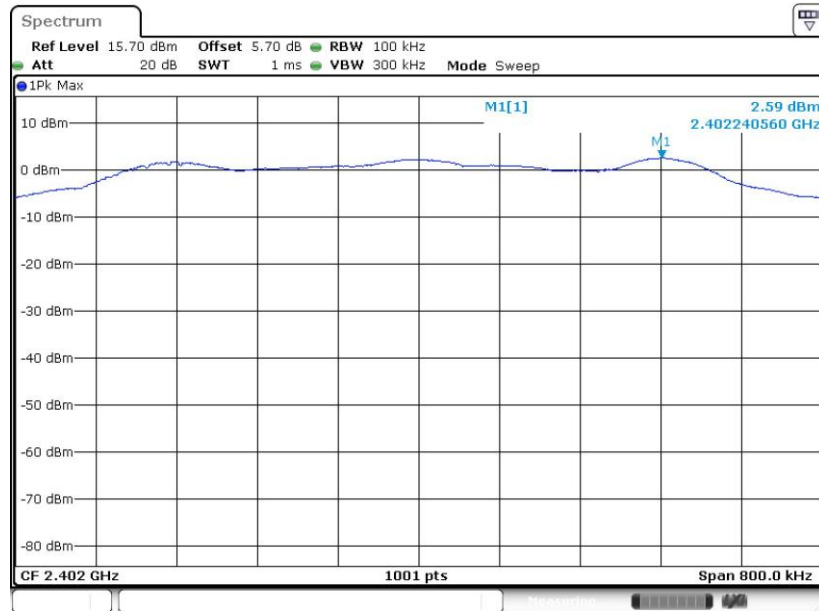
Please refer to Appendix A.



3.3.6 Test Result of Power Spectral Density Plots (100kHz)

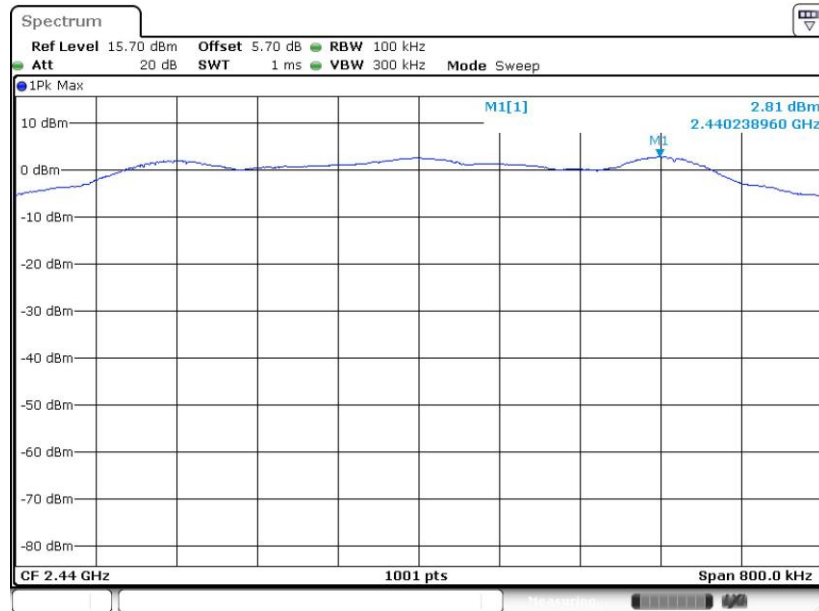
Bluetooth v4.0 LE-1M

PSD 100kHz Plot on Channel 00



Date: 28.APR.2021 09:49:32

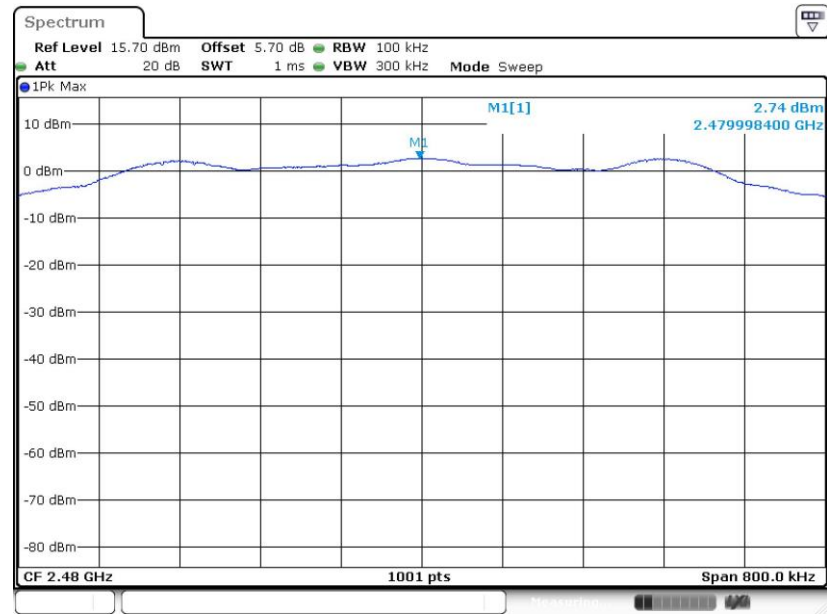
PSD 100kHz Plot on Channel 19



Date: 28.APR.2021 09:58:21



PSD 100kHz Plot on Channel 39

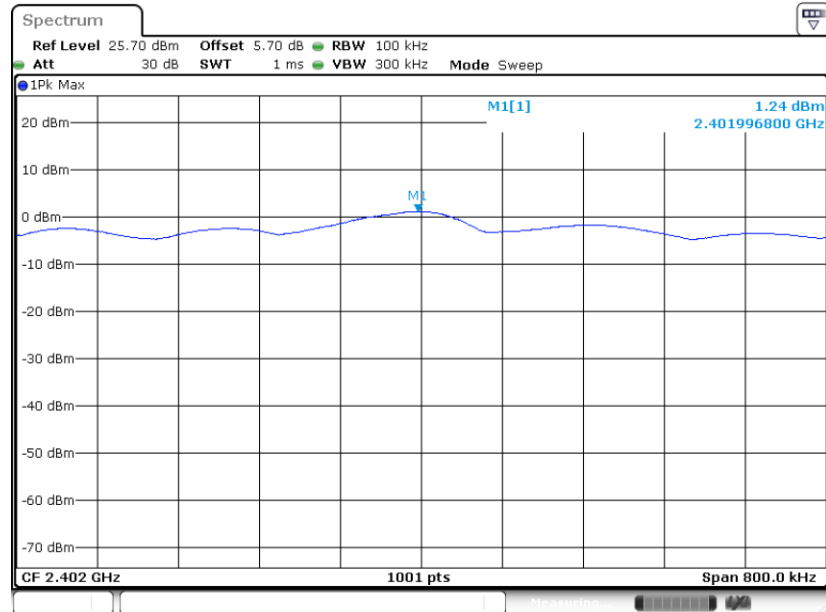


Date: 28.APR.2021 10:06:32



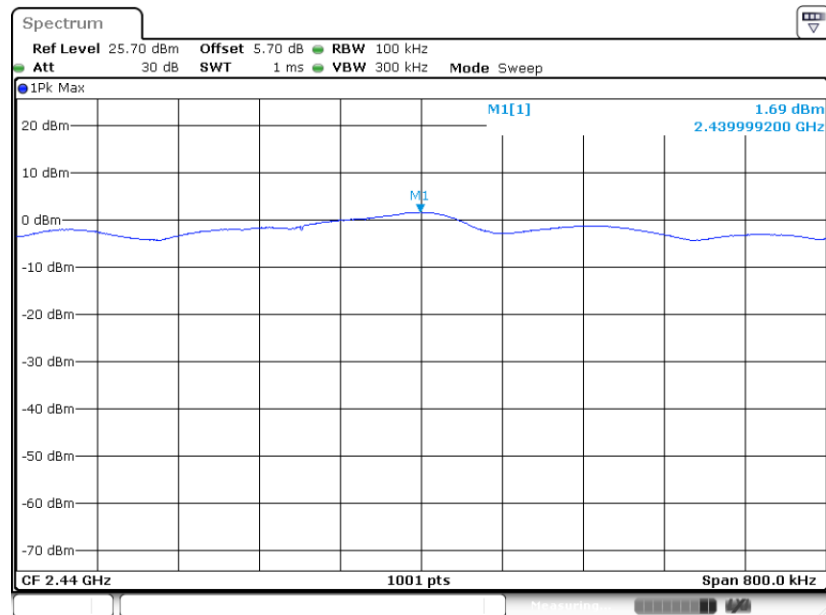
Bluetooth v5.0 LE-2M

PSD 100kHz Plot on Channel 00



Date: 27 JUN 2021 14:38:18

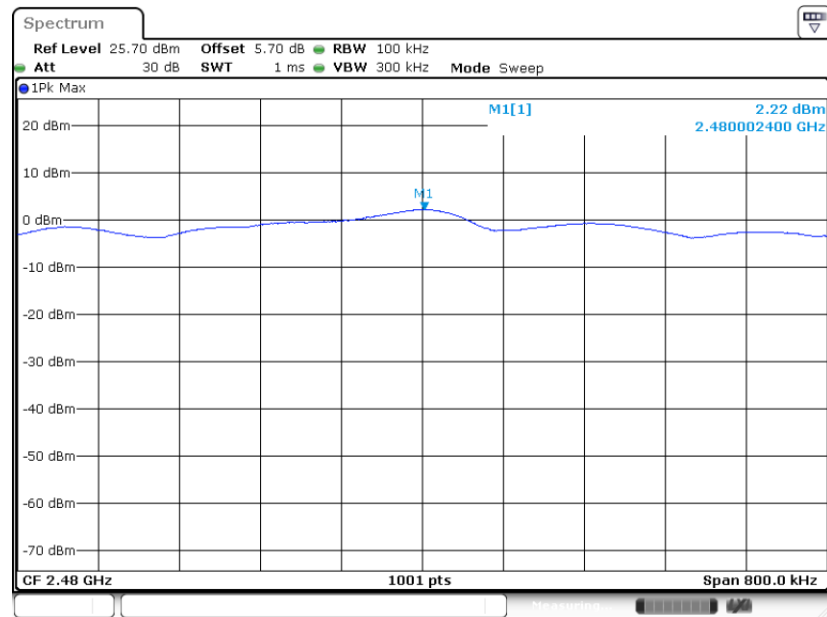
PSD 100kHz Plot on Channel 19



Date: 27 JUN 2021 15:13:39



PSD 100kHz Plot on Channel 39



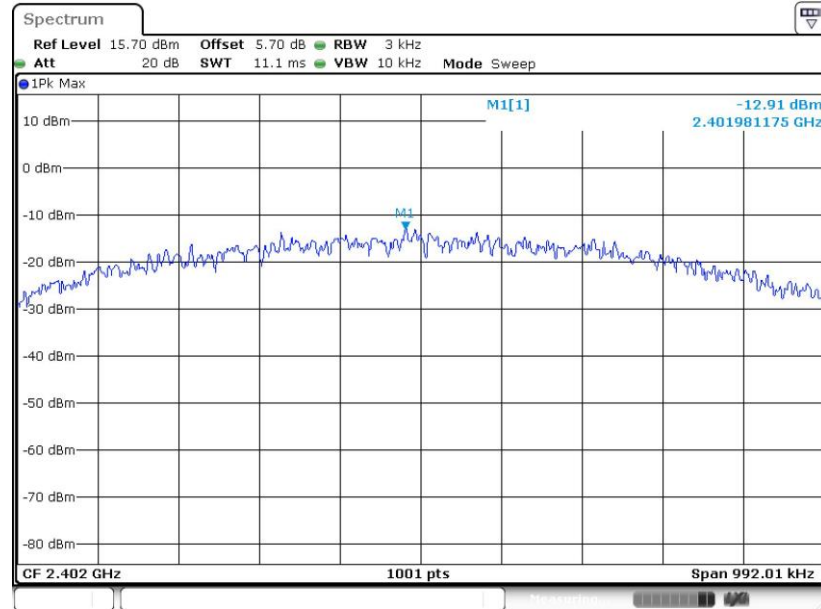
Date: 27 JUN 2021 14:42:27



3.3.7 Test Result of Power Spectral Density Plots (3kHz)

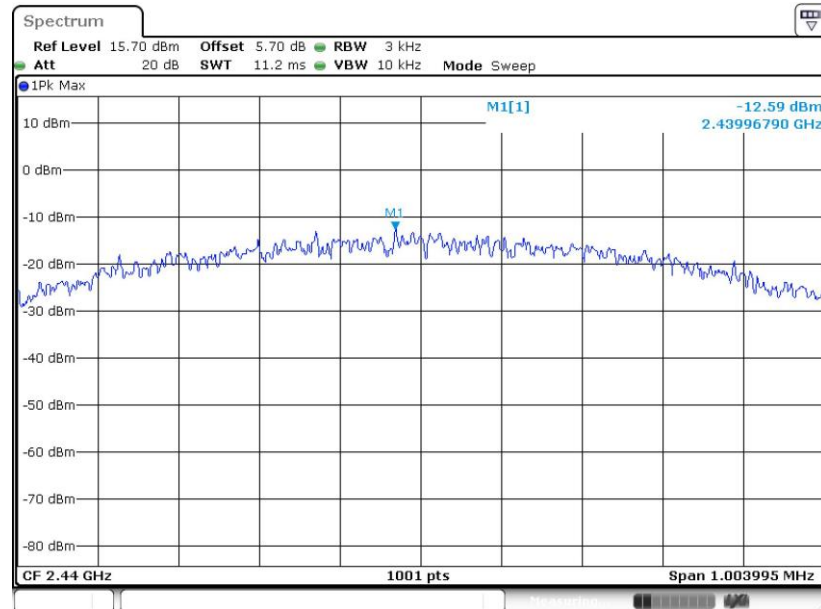
Bluetooth v4.0 LE-1M

PSD 3kHz Plot on Channel 00



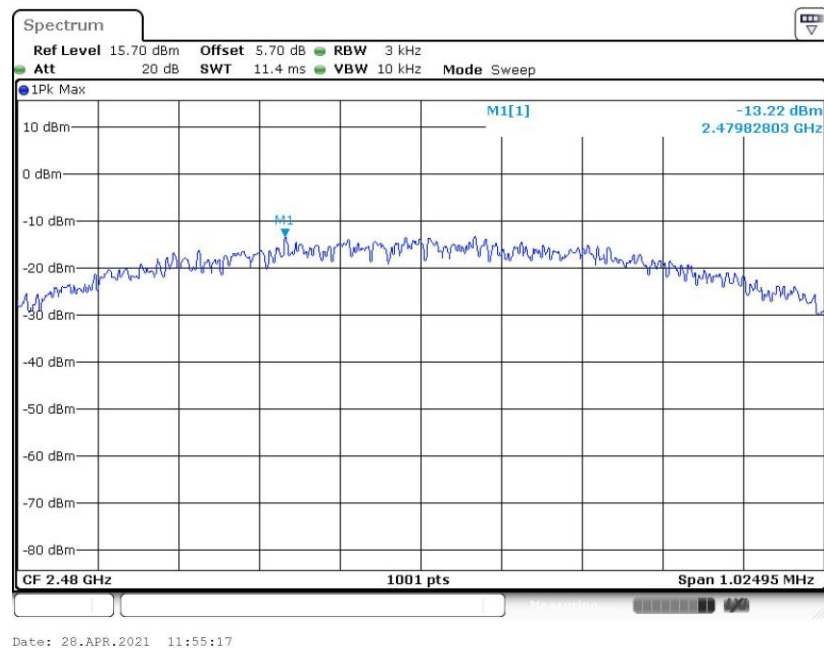
Date: 28.APR.2021 09:48:38

PSD 3kHz Plot on Channel 19



Date: 28.APR.2021 09:58:02

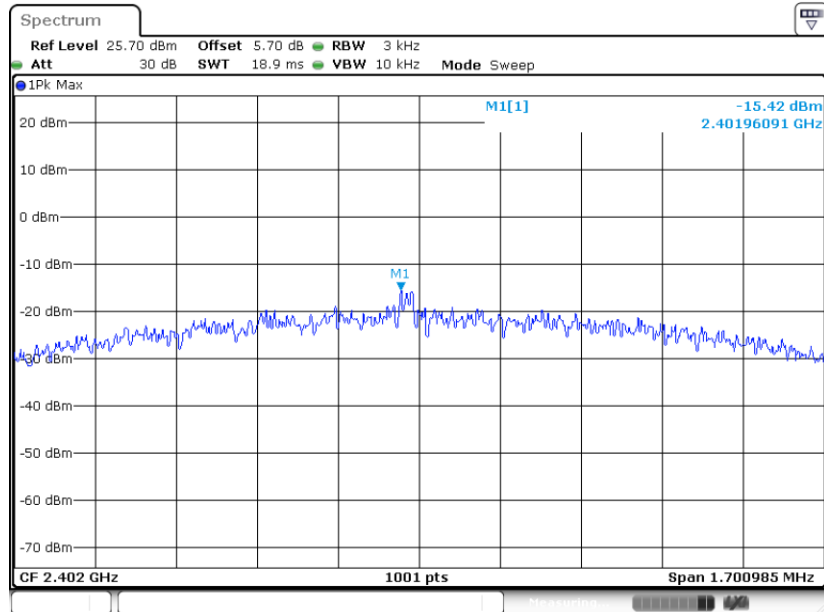
PSD 3kHz Plot on Channel 39





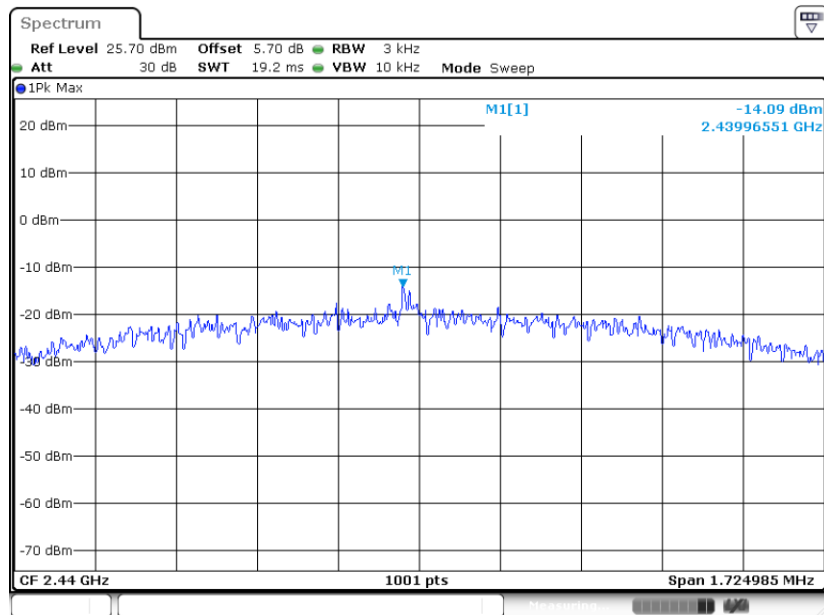
Bluetooth v5.0 LE-2M

PSD 3kHz Plot on Channel 00



Date: 27 JUN 2021 15:07:54

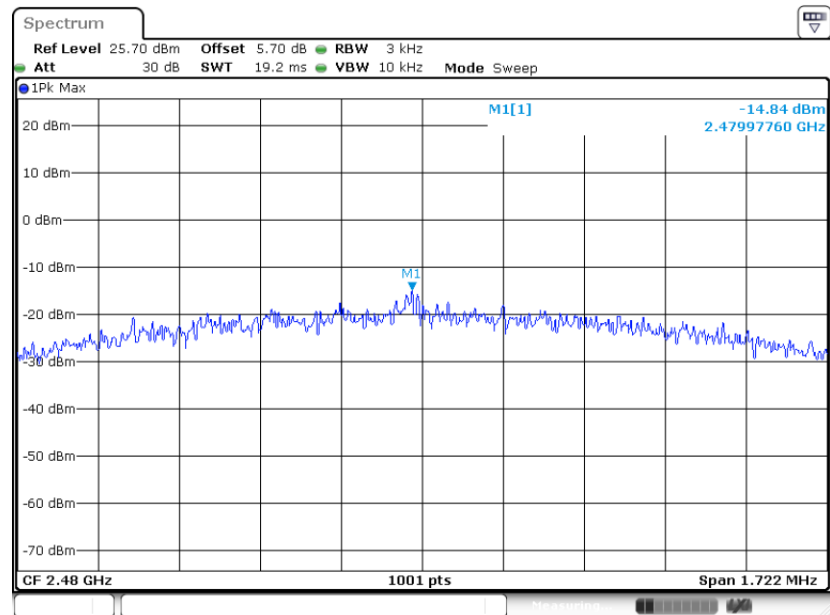
PSD 3kHz Plot on Channel 19



Date: 27 JUN 2021 15:13:21



PSD 3kHz Plot on Channel 39



Date: 27 JUN 2021 15:05:57

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 20 dB down from the highest emission level within the authorized band.

3.4.2 Measuring Instruments

The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.4.3 Test Procedure

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT 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

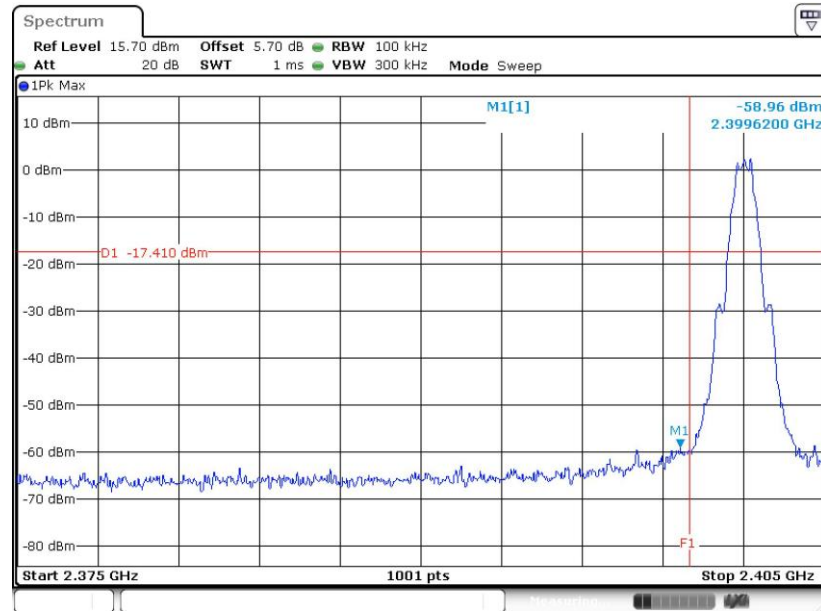




3.4.5 Test Result of Conducted Band Edges Plots

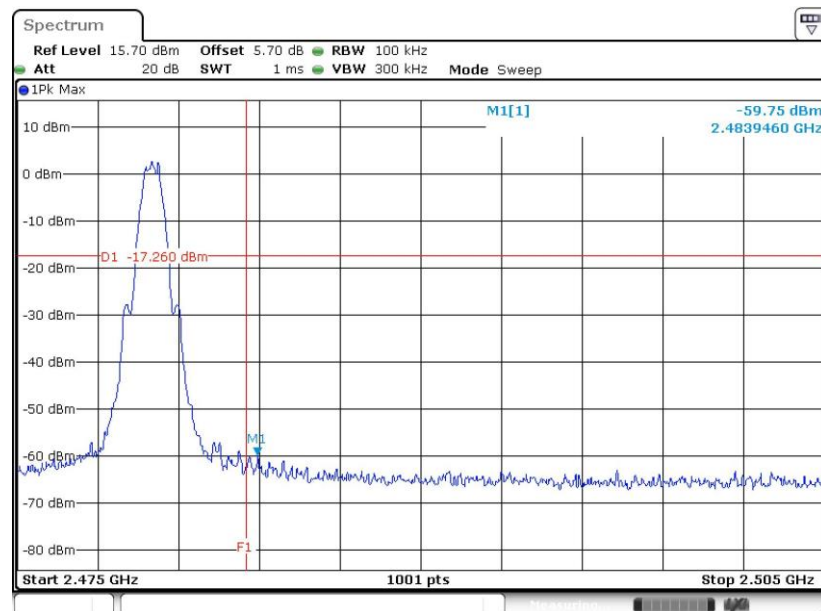
Bluetooth v4.0 LE-1M

Low Band Edge Plot on Channel 00



Date: 28.APR.2021 09:50:22

High Band Edge Plot on Channel 39

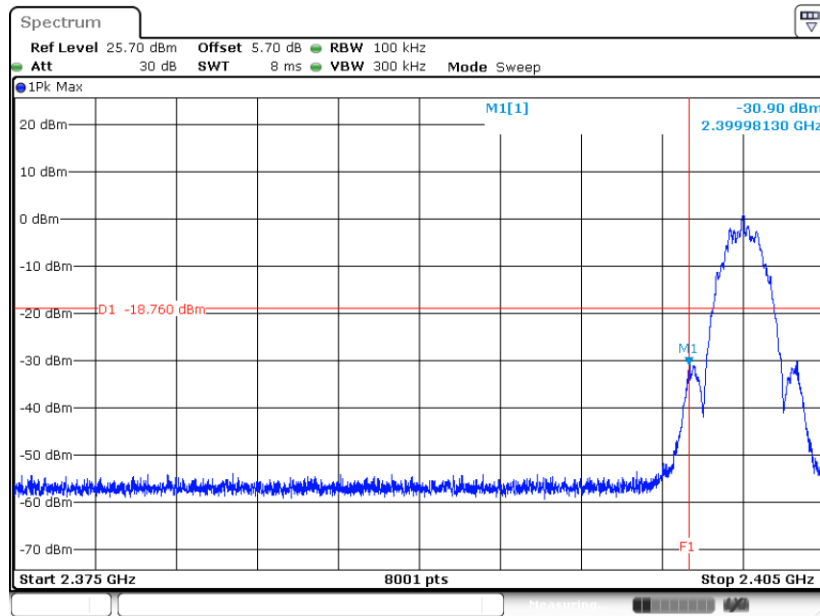


Date: 28.APR.2021 10:07:32



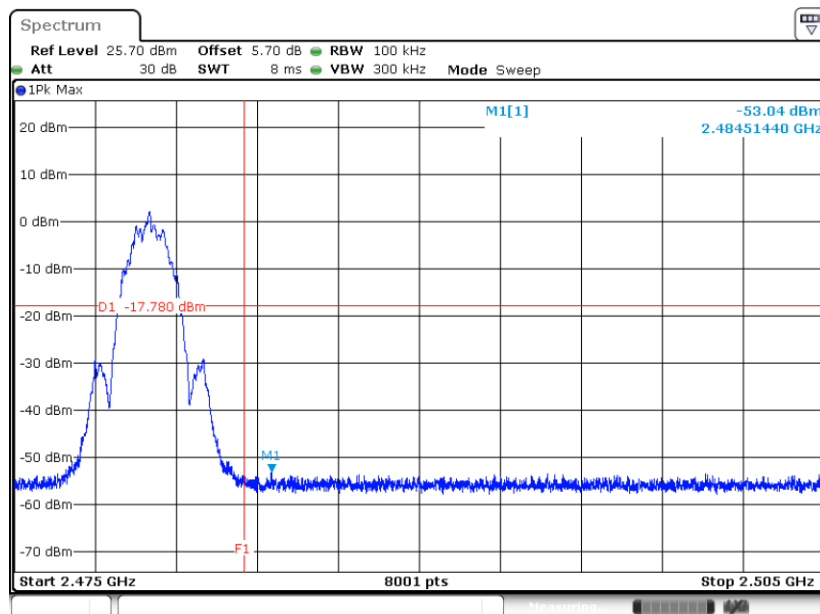
Bluetooth v5.0 LE-2M

Low Band Edge Plot on Channel 00



Date: 27 JUN 2021 14:38:35

High Band Edge Plot on Channel 39



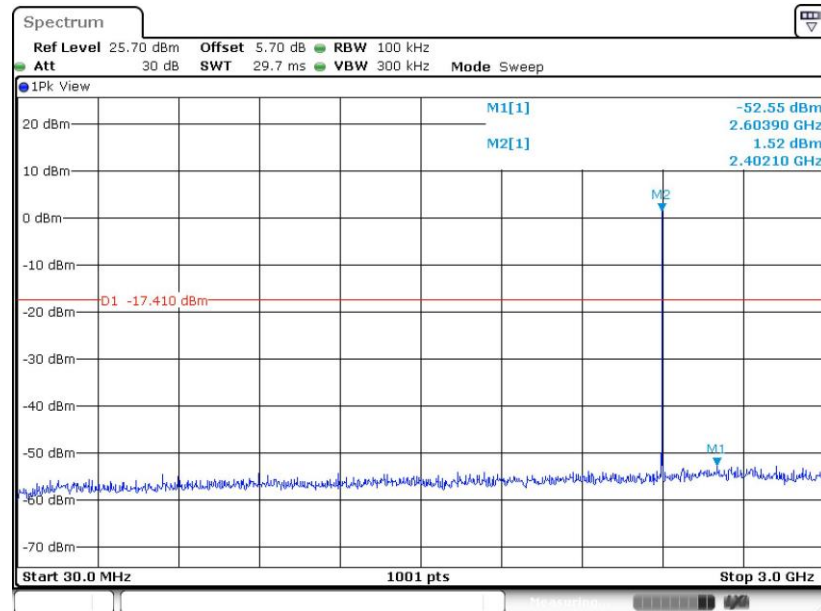
Date: 27 JUN 2021 14:42:50

3.4.6 Test Result of Conducted Spurious Emission Plots

Bluetooth v4.0 LE-1M

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

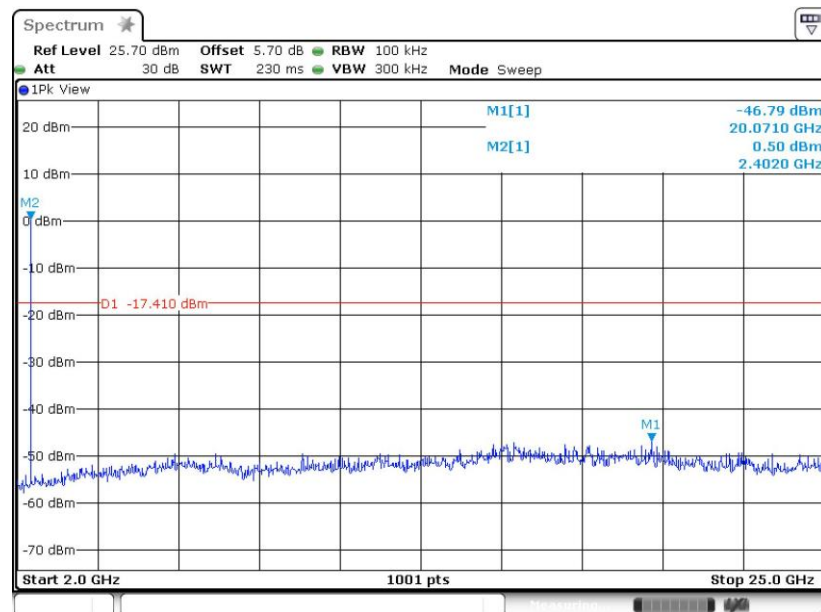
GFSK Channel 00



Date: 28.APR.2021 09:51:59

Conducted Spurious Emission Plot on Bluetooth LE 1Mbps

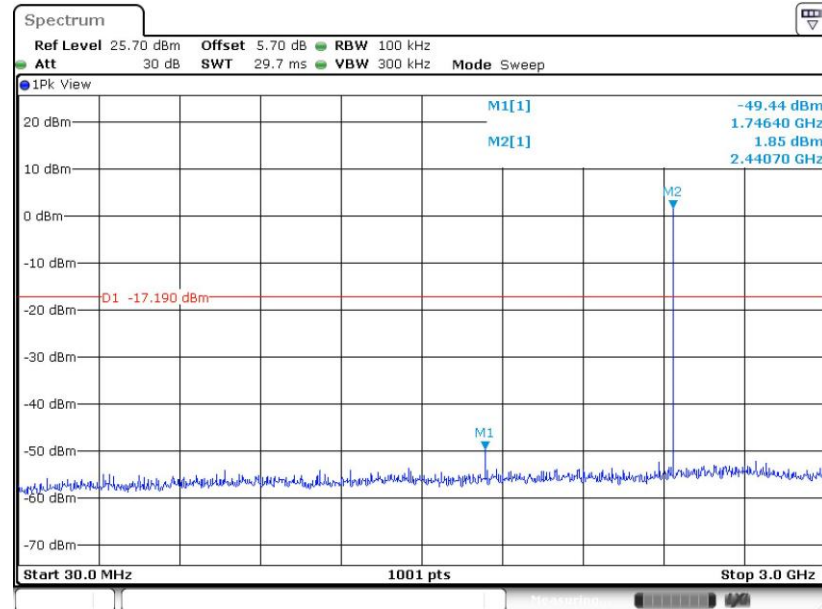
GFSK Channel 00



Date: 28.APR.2021 09:52:08

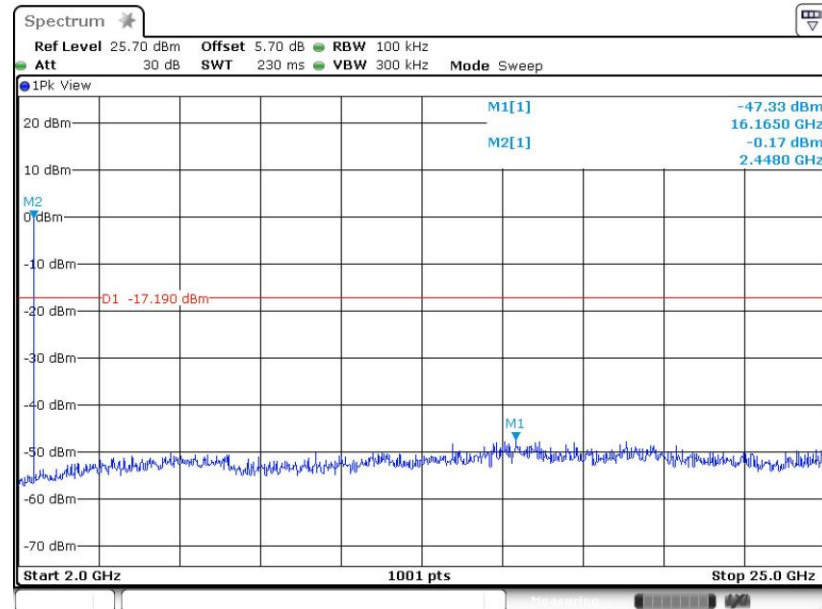


Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 19



Date: 28.APR.2021 09:58:35

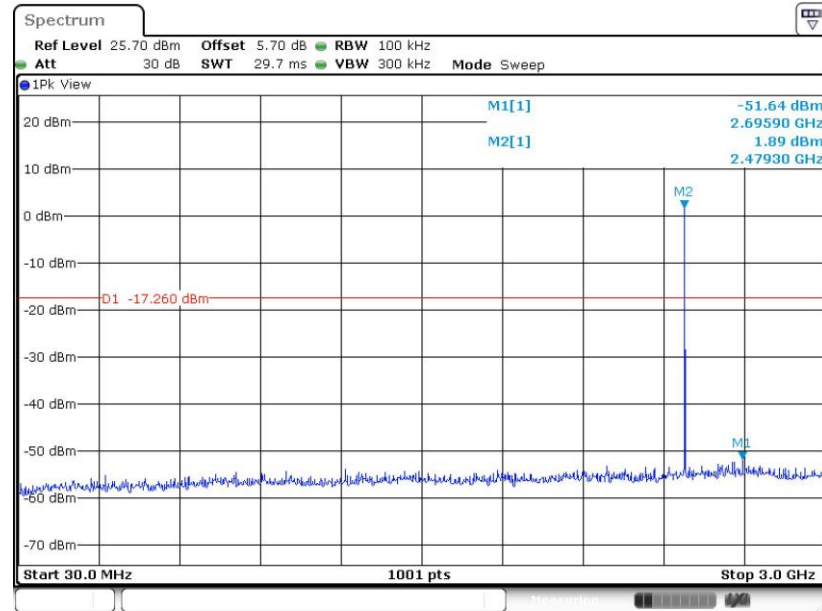
Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 19



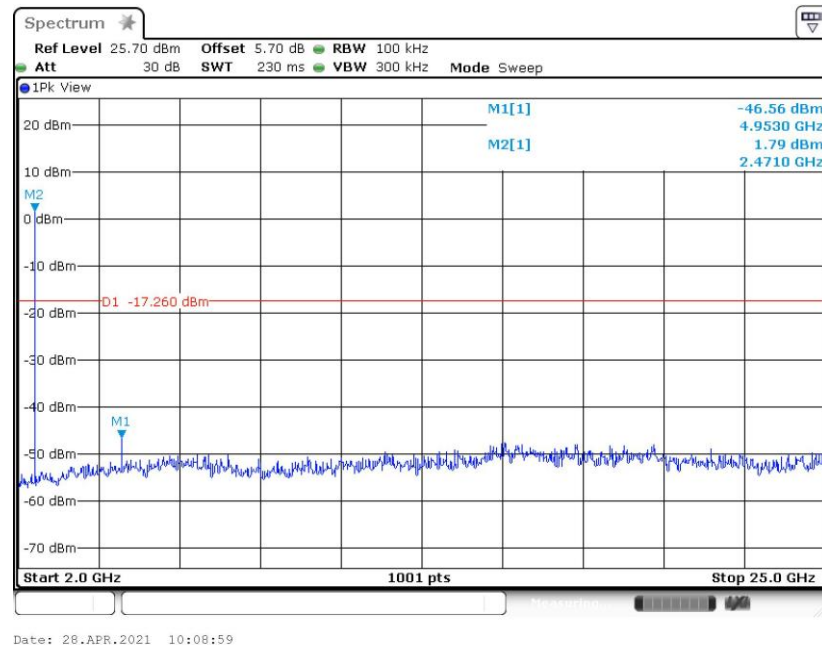
Date: 28.APR.2021 09:58:44



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 39



Conducted Spurious Emission Plot on Bluetooth LE 1Mbps
GFSK Channel 39

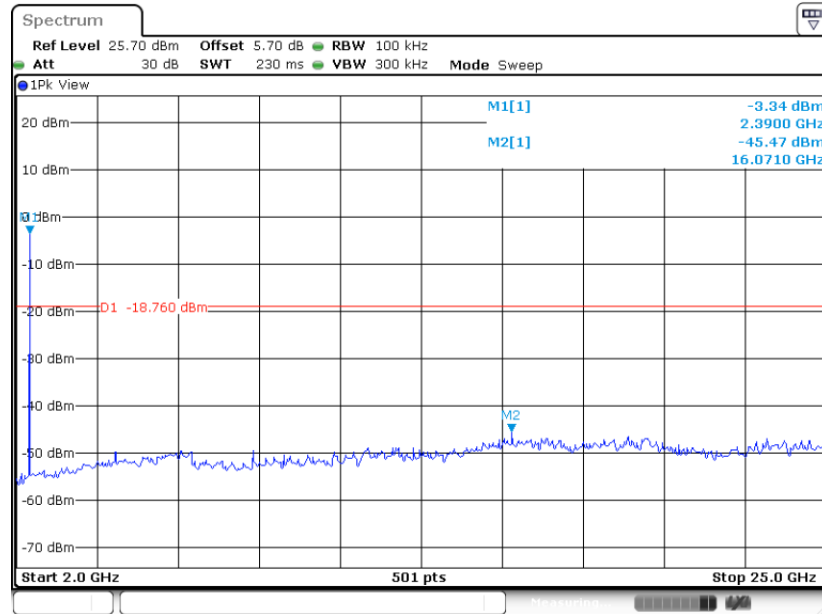




Bluetooth v5.0 LE-2M

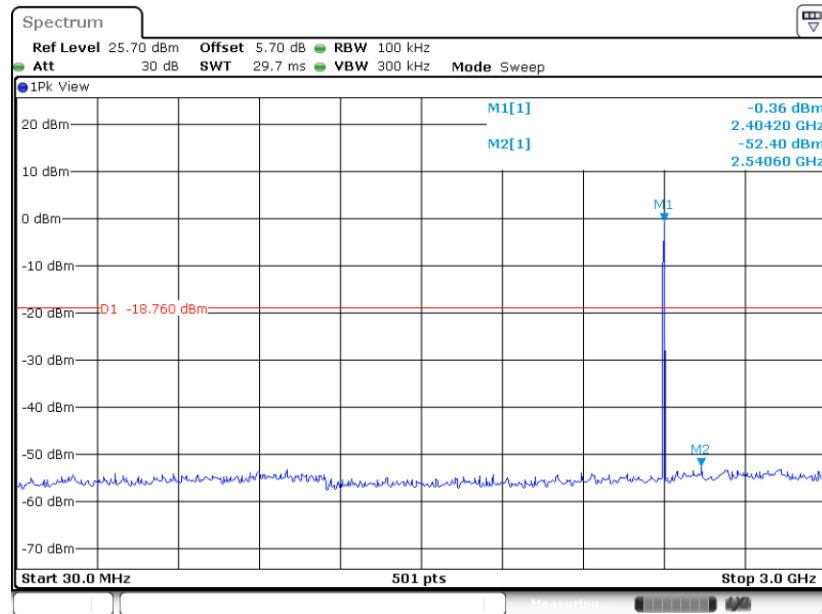
Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 00

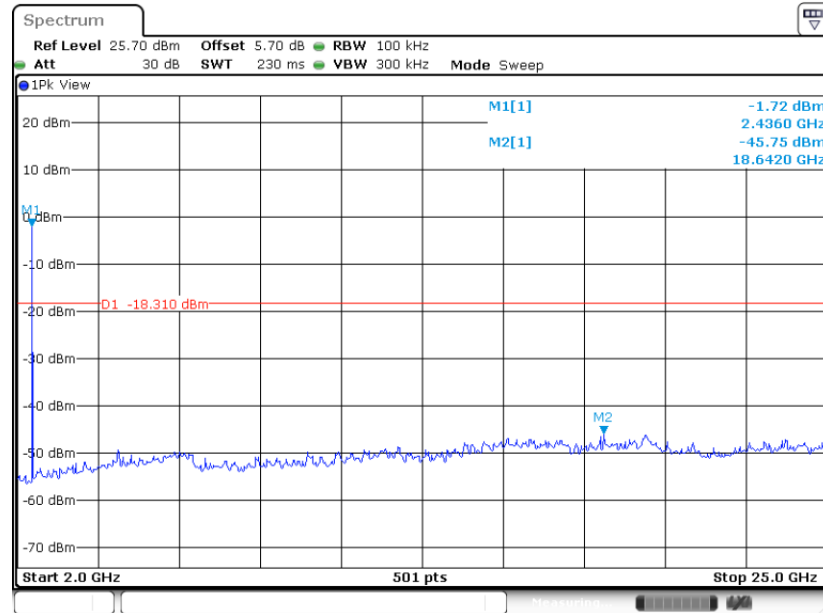


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps

GFSK Channel 00

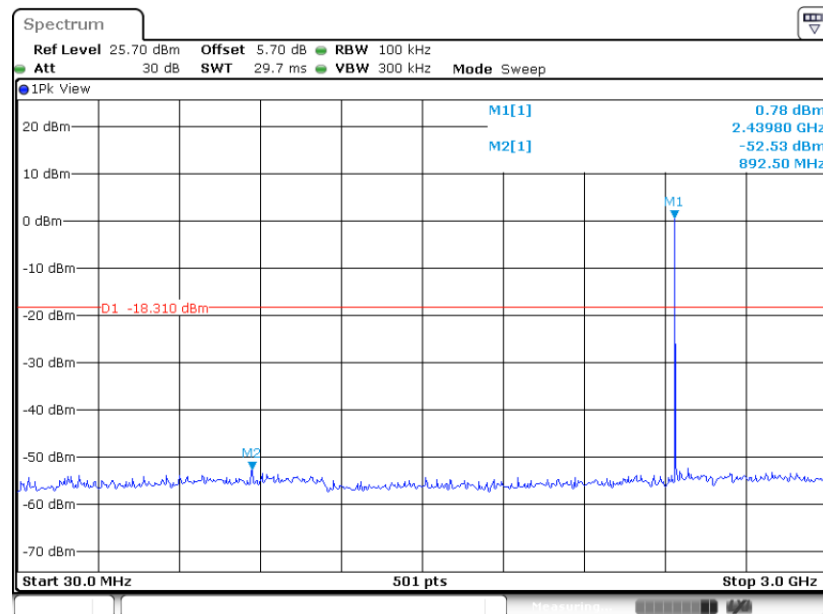


Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19



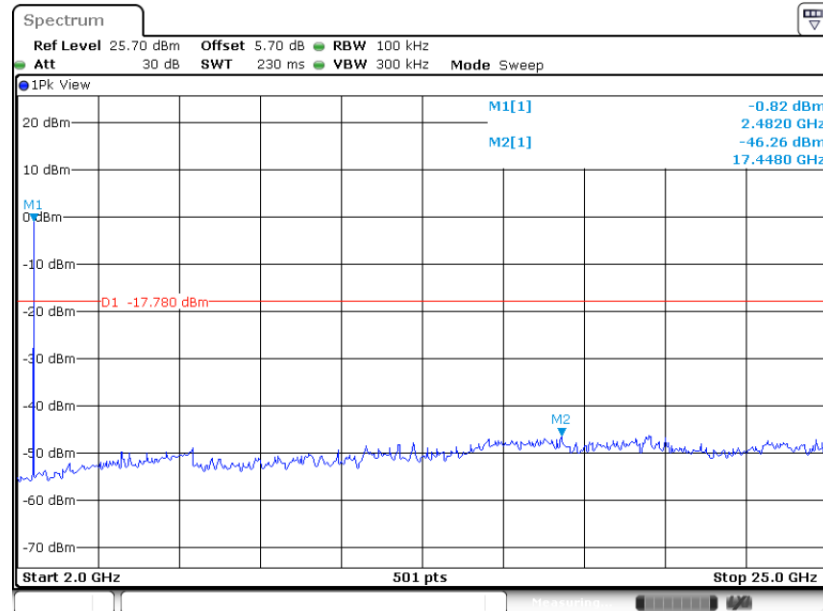
Date: 27.JUN.2021 15:14:05

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 19



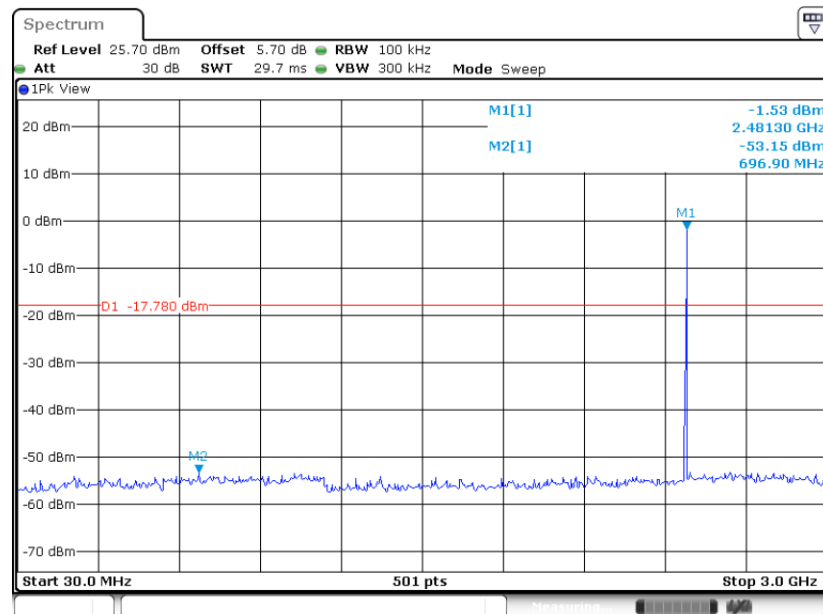
Date: 27.JUN.2021 15:13:52

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 27.JUN.2021 14:43:17

Conducted Spurious Emission Plot on Bluetooth LE 2Mbps GFSK Channel 39



Date: 27.JUN.2021 14:43:05

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 output power of this device was measured by spectrum analyzer, the attenuation under this paragraph 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

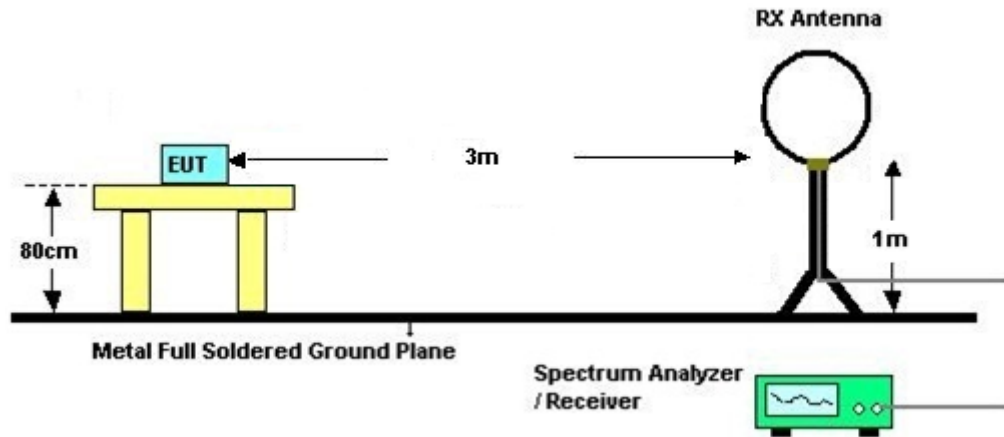
The section 4.0 of List of Measuring Equipment of this test report is used for test.

3.5.3 Test Procedures

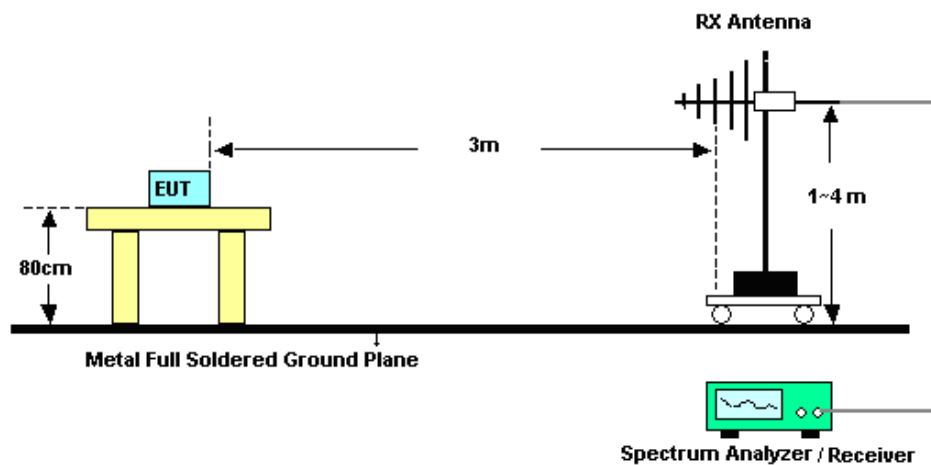
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
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= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - $VBW = 10$ Hz, when duty cycle is no less than 98 percent.
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

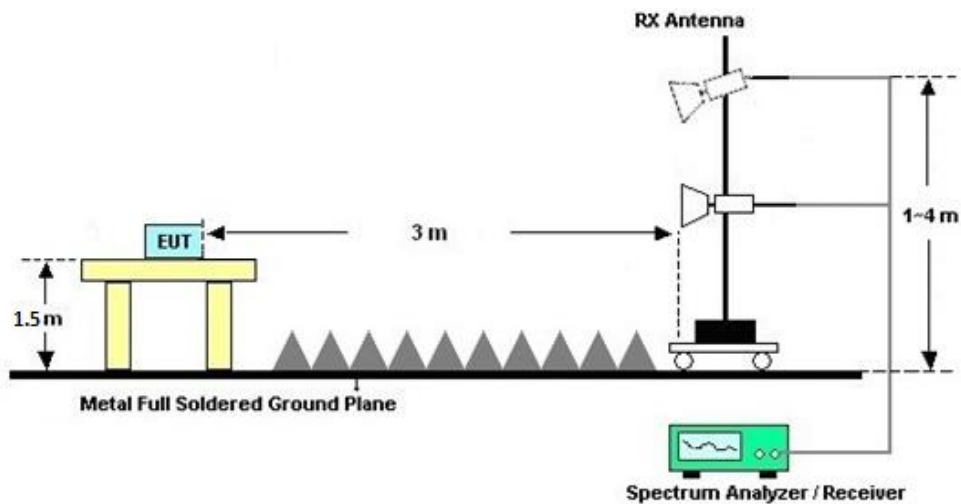
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B & C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix B & C..



3.6 Antenna Requirements

3.6.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|---------------------------|--------------|------------------------|------------|-----------------------|------------------|-------------------------------|---------------|-----------------------|
| Spectrum Analyzer | R&S | FSV40 | 101040 | 10Hz~40GHz | Nov. 01, 2020 | Apr. 28, 2021 ~ Jun. 27, 2021 | Oct. 31, 2021 | Conducted (TH01-KS) |
| Pulse Power Sensor | Anritsu | MA2411B | 0917070 | 300MHz~40GHz | Jan. 07, 2021 | Apr. 28, 2021 ~ Jun. 27, 2021 | Jan. 06, 2022 | Conducted (TH01-KS) |
| Power Meter | Anritsu | ML2495A | 1005002 | 50MHz Bandwidth | Jan. 07, 2021 | Apr. 28, 2021 ~ Jun. 27, 2021 | Jan. 06, 2022 | Conducted (TH01-KS) |
| EMI Test Receiver | Keysight | N9038A | MY56400004 | 3Hz~8.5GHz; Max 30dBm | Oct. 17, 2020 | Apr. 27, 2021 ~ Jun. 27, 2021 | Oct. 16, 2021 | Radiation (03CH06-KS) |
| EXA Spectrum Analyzer | Keysight | N9010A | MY55150208 | 10Hz~44GHz | Apr. 12, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Apr. 11, 2022 | Radiation (03CH06-KS) |
| Loop Antenna | R&S | HFH2-Z2 | 100321 | 9kHz~30MHz | Nov. 1, 2020 | Apr. 27, 2021 ~ Jun. 27, 2021 | Oct. 31, 2021 | Radiation (03CH06-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 49921 | 30MHz~1GHz | May 29, 2020 | Apr. 27, 2021 ~ Jun. 27, 2021 | May 28, 2021 | Radiation (03CH06-KS) |
| Bilog Antenna | TeseQ | CBL6111D | 49921 | 30MHz~1GHz | May 27, 2021 | | May 26, 2022 | Radiation (03CH06-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117 | 00218652 | 1GHz~18GHz | Apr. 25, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Apr. 24, 2022 | Radiation (03CH06-KS) |
| SHF-EHF Horn | Com-power | AH-840 | 101115 | 18GHz~40GHz | Nov. 10, 2020 | Apr. 27, 2021 ~ Jun. 27, 2021 | Nov. 09, 2021 | Radiation (03CH06-KS) |
| Amplifier | SONOMA | 310N | 187289 | 9KHz ~1GHZ | Apr. 12, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Apr. 11, 2022 | Radiation (03CH06-KS) |
| Amplifier | MITEQ | EM18G40GGA | 060728 | 18~40GHz | Jan. 06, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Jan. 05, 2022 | Radiation (03CH06-KS) |
| high gain Amplifier | MITEQ | AMF-7D-00101800-30-10P | 2025788 | 1Ghz-18Ghz | Jan. 06, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Jan. 05, 2022 | Radiation (03CH06-KS) |
| Amplifier | Keysight | 83017A | MY53270203 | 500MHz~26.5GHz | Apr. 13, 2021 | Apr. 27, 2021 ~ Jun. 27, 2021 | Apr. 12, 2022 | Radiation (03CH06-KS) |
| AC Power Source | Chroma | 61601 | F104090004 | N/A | NCR | Apr. 27, 2021 ~ Jun. 27, 2021 | NCR | Radiation (03CH06-KS) |
| Turn Table | ChamPro | EM 1000-T | 060762-T | 0~360 degree | NCR | Apr. 27, 2021 ~ Jun. 27, 2021 | NCR | Radiation (03CH06-KS) |
| Antenna Mast | ChamPro | EM 1000-A | 060762-A | 1 m~4 m | NCR | Apr. 27, 2021 ~ Jun. 27, 2021 | NCR | Radiation (03CH06-KS) |

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage $K=2$ to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

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

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

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

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

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

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



Appendix A. Conducted Test Results

Bluetooth v4.0 Low Energy

| | | | | |
|----------------|-----------|--------------------|-------|----|
| Test Engineer: | Long Wu | Temperature: | 20~26 | °C |
| Test Date: | 2021/4/28 | Relative Humidity: | 40~51 | % |

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 | 1.02 | 0.66 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 1.03 | 0.67 | 0.50 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 1.04 | 0.68 | 0.50 | Pass |

TEST RESULTS DATA
Peak Power Table

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE | 1Mbps | 1 | 0 | 2402 | 2.81 | 30.00 | 3.80 | 6.61 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 3.00 | 30.00 | 3.80 | 6.80 | 36.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 3.15 | 30.00 | 3.80 | 6.95 | 36.00 | Pass |

TEST RESULTS DATA
Average Power Table
(Reporting Only)

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) |
|------|-----------|-----|-----|-------------|------------------|-------------------------------|
| BLE | 1Mbps | 1 | 0 | 2402 | 0.65 | 2.71 |
| BLE | 1Mbps | 1 | 19 | 2440 | 0.65 | 2.79 |
| BLE | 1Mbps | 1 | 39 | 2480 | 0.65 | 2.92 |

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 | 2.59 | -12.91 | 3.80 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 19 | 2440 | 2.81 | -12.59 | 3.80 | 8.00 | Pass |
| BLE | 1Mbps | 1 | 39 | 2480 | 2.74 | -13.22 | 3.80 | 8.00 | Pass |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.

Bluetooth v5.0 Low Energy

| | | | | |
|----------------|---------------------|--------------------|-------|----|
| Test Engineer: | Long Wu | Temperature: | 20~26 | °C |
| Test Date: | 2021/4/28~2021/6/27 | Relative Humidity: | 40~51 | % |

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 | 2Mbps | 1 | 0 | 2402 | 2.06 | 1.13 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.07 | 1.15 | 0.50 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.06 | 1.15 | 0.50 | Pass |

TEST RESULTS DATA
Peak Power Table

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | Conducted Power Limit (dBm) | DG (dBi) | EIRP Power (dBm) | EIRP Power Limit (dBm) | Pass /Fail |
|------|-----------|-----|-----|-------------|----------------------------|-----------------------------|----------|------------------|------------------------|------------|
| BLE | 2Mbps | 1 | 0 | 2402 | 1.76 | 30.00 | 3.80 | 5.56 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.98 | 30.00 | 3.80 | 6.78 | 36.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.81 | 30.00 | 3.80 | 6.61 | 36.00 | Pass |

TEST RESULTS DATA
Average Power Table
(Reporting Only)

| Mod. | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) |
|------|-----------|-----|-----|-------------|------------------|-------------------------------|
| BLE | 2Mbps | 1 | 0 | 2402 | 2.34 | 1.71 |
| BLE | 2Mbps | 1 | 19 | 2440 | 2.34 | 2.72 |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.34 | 2.63 |

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 | 2Mbps | 1 | 0 | 2402 | 1.24 | -15.42 | 3.80 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 19 | 2440 | 1.69 | -14.09 | 3.80 | 8.00 | Pass |
| BLE | 2Mbps | 1 | 39 | 2480 | 2.22 | -14.84 | 3.80 | 8.00 | Pass |

Note: PSD (dBm/ 100kHz) is a reference level used for Conducted Band Edges and Conducted Spurious Emission 20dBc limit.



Appendix B. Radiated Spurious Emission

BLE(1M)

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|-------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2369.15 | 54.13 | -19.87 | 74 | 47.42 | 32.1 | 8.06 | 33.45 | 110 | 322 | P | H |
| | | 2379.03 | 43.31 | -10.69 | 54 | 36.6 | 32.1 | 8.06 | 33.45 | 110 | 322 | A | H |
| | * | 2402 | 98.66 | - | - | 91.81 | 32.2 | 8.09 | 33.44 | 110 | 322 | P | H |
| | * | 2402 | 97.07 | - | - | 90.22 | 32.2 | 8.09 | 33.44 | 110 | 322 | A | H |
| | | 2373.83 | 55.35 | -18.65 | 74 | 47.45 | 33.29 | 8.06 | 33.45 | 100 | 291 | P | V |
| | | 2385.66 | 44.54 | -9.46 | 54 | 36.4 | 33.5 | 8.09 | 33.45 | 100 | 291 | A | V |
| | * | 2402 | 97.44 | - | - | 89.29 | 33.5 | 8.09 | 33.44 | 100 | 291 | P | V |
| | * | 2402 | 96.83 | - | - | 88.68 | 33.5 | 8.09 | 33.44 | 100 | 291 | A | V |
| BLE CH 19 2440MHz | | 2376.17 | 54.06 | -19.94 | 74 | 47.35 | 32.1 | 8.06 | 33.45 | 138 | 230 | P | H |
| | | 2384.1 | 43.25 | -10.75 | 54 | 36.49 | 32.15 | 8.06 | 33.45 | 138 | 230 | A | H |
| | | 2490.28 | 54.53 | -19.47 | 74 | 48.01 | 31.7 | 8.24 | 33.42 | 138 | 230 | P | H |
| | | 2485.96 | 43.15 | -10.85 | 54 | 36.65 | 31.7 | 8.22 | 33.42 | 138 | 230 | A | H |
| | * | 2440 | 99.81 | - | - | 93.08 | 32 | 8.16 | 33.43 | 138 | 230 | P | H |
| | * | 2440 | 99.18 | - | - | 92.45 | 32 | 8.16 | 33.43 | 138 | 230 | A | H |
| | | 2381.76 | 55.4 | -18.6 | 74 | 47.5 | 33.29 | 8.06 | 33.45 | 361 | 288 | P | V |
| | | 2386.96 | 44.61 | -9.39 | 54 | 36.47 | 33.5 | 8.09 | 33.45 | 361 | 288 | A | V |
| | | 2490.22 | 54.92 | -19.08 | 74 | 47.37 | 32.73 | 8.24 | 33.42 | 361 | 288 | P | V |
| | | 2499.94 | 44.15 | -9.85 | 54 | 36.6 | 32.73 | 8.24 | 33.42 | 361 | 288 | A | V |
| | * | 2440 | 97.06 | - | - | 89.22 | 33.11 | 8.16 | 33.43 | 361 | 288 | P | V |
| | * | 2440 | 96.44 | - | - | 88.6 | 33.11 | 8.16 | 33.43 | 361 | 288 | A | V |



| | | | | | | | | | | | | | |
|----------------------------------|---|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| BLE CH 39 2480MHz | | 2483.98 | 56.74 | -17.26 | 74 | 50.15 | 31.8 | 8.22 | 33.43 | 116 | 234 | P | H |
| | | 2483.5 | 45.16 | -8.84 | 54 | 38.57 | 31.8 | 8.22 | 33.43 | 116 | 234 | A | H |
| | * | 2480 | 100.35 | - | - | 93.76 | 31.8 | 8.22 | 33.43 | 116 | 234 | P | H |
| | * | 2480 | 99.73 | - | - | 93.14 | 31.8 | 8.22 | 33.43 | 116 | 234 | A | H |
| | | 2483.62 | 56.28 | -17.72 | 74 | 48.63 | 32.86 | 8.22 | 33.43 | 391 | 264 | P | V |
| | | 2483.5 | 45.06 | -8.94 | 54 | 37.41 | 32.86 | 8.22 | 33.43 | 391 | 264 | A | V |
| | * | 2480 | 97.64 | - | - | 89.99 | 32.86 | 8.22 | 33.43 | 391 | 264 | P | V |
| | * | 2480 | 97.05 | - | - | 89.4 | 32.86 | 8.22 | 33.43 | 391 | 264 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

| BLE | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------|---|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE CH 00 2402MHz | | 4806 | 46.68 | -27.32 | 74 | 61.93 | 34.96 | 11.51 | 61.72 | 300 | 0 | P | H |
| | | 4806 | 46.76 | -27.24 | 74 | 62.13 | 34.84 | 11.51 | 61.72 | 300 | 360 | P | V |
| BLE CH 19 2440MHz | | 4878 | 47.7 | -26.3 | 74 | 62.77 | 35.04 | 11.6 | 61.71 | 300 | 0 | P | H |
| | | 7320 | 41.9 | -32.1 | 74 | 52.25 | 36.86 | 14.69 | 61.9 | 300 | 0 | P | H |
| | | 4878 | 46.15 | -27.85 | 74 | 61.43 | 34.83 | 11.6 | 61.71 | 300 | 360 | P | V |
| | | 7320 | 40.89 | -33.11 | 74 | 51.7 | 36.4 | 14.69 | 61.9 | 300 | 360 | P | V |
| BLE CH 39 2480MHz | | 4962 | 48.03 | -25.97 | 74 | 62.88 | 35.14 | 11.71 | 61.7 | 300 | 0 | P | H |
| | | 7440 | 41.98 | -32.02 | 74 | 52.11 | 36.89 | 14.88 | 61.9 | 300 | 0 | P | H |
| | | 4962 | 44.73 | -29.27 | 74 | 59.91 | 34.81 | 11.71 | 61.7 | 300 | 360 | P | V |
| | | 7440 | 40.93 | -33.07 | 74 | 51.48 | 36.47 | 14.88 | 61.9 | 300 | 360 | P | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



BLE(2M)

2.4GHz 2400~2483.5MHz

BLE (Band Edge @ 3m)

| BLE | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|-------------------------|------|-----------|------------|------------|------------|------------|----------------|-----------|---------------|---------|-----------|-----------|---------|
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2369.54 | 54.37 | -19.63 | 74 | 47.66 | 32.1 | 8.06 | 33.45 | 110 | 238 | P | H |
| | | 2388.13 | 43.98 | -10.02 | 54 | 37.19 | 32.15 | 8.09 | 33.45 | 110 | 238 | A | H |
| | * | 2402 | 100.71 | - | - | 93.86 | 32.2 | 8.09 | 33.44 | 110 | 238 | P | H |
| | * | 2402 | 99.15 | - | - | 92.3 | 32.2 | 8.09 | 33.44 | 110 | 238 | A | H |
| | | 2353.03 | 55.75 | -18.25 | 74 | 48.1 | 33.08 | 8.02 | 33.45 | 381 | 280 | P | V |
| | | 2389.17 | 45.37 | -8.63 | 54 | 37.23 | 33.5 | 8.09 | 33.45 | 381 | 280 | A | V |
| | * | 2402 | 98.51 | - | - | 90.36 | 33.5 | 8.09 | 33.44 | 381 | 280 | P | V |
| | * | 2402 | 97.01 | - | - | 88.86 | 33.5 | 8.09 | 33.44 | 381 | 280 | A | V |
| BLE CH 19 2440MHz | | 2335.22 | 54.19 | -19.81 | 74 | 47.66 | 32 | 7.99 | 33.46 | 137 | 237 | P | H |
| | | 2381.63 | 43.49 | -10.51 | 54 | 36.78 | 32.1 | 8.06 | 33.45 | 137 | 237 | A | H |
| | | 2491.54 | 53.72 | -20.28 | 74 | 47.2 | 31.7 | 8.24 | 33.42 | 137 | 237 | P | H |
| | | 2487.4 | 43.4 | -10.6 | 54 | 36.9 | 31.7 | 8.22 | 33.42 | 137 | 237 | A | H |
| | * | 2440 | 99.47 | - | - | 92.74 | 32 | 8.16 | 33.43 | 137 | 237 | P | H |
| | * | 2440 | 97.94 | - | - | 91.21 | 32 | 8.16 | 33.43 | 137 | 237 | A | H |
| | | 2367.85 | 55.89 | -18.11 | 74 | 48.24 | 33.08 | 8.02 | 33.45 | 366 | 288 | P | V |
| | | 2382.28 | 44.78 | -9.22 | 54 | 36.88 | 33.29 | 8.06 | 33.45 | 366 | 288 | A | V |
| | | 2484.7 | 55.65 | -18.35 | 74 | 48 | 32.86 | 8.22 | 33.43 | 366 | 288 | P | V |
| | | 2488.18 | 44.46 | -9.54 | 54 | 36.91 | 32.73 | 8.24 | 33.42 | 366 | 288 | A | V |
| | * | 2440 | 97.02 | - | - | 89.18 | 33.11 | 8.16 | 33.43 | 366 | 288 | P | V |
| | * | 2440 | 95.47 | - | - | 87.63 | 33.11 | 8.16 | 33.43 | 366 | 288 | A | V |



| | | | | | | | | | | | | | |
|----------------------------------|---|---------|--------|--------|----|-------|-------|------|-------|-----|-----|---|---|
| BLE CH 39 2480MHz | | 2483.5 | 61.25 | -12.75 | 74 | 54.66 | 31.8 | 8.22 | 33.43 | 106 | 240 | P | H |
| | | 2483.5 | 51.63 | -2.37 | 54 | 45.04 | 31.8 | 8.22 | 33.43 | 106 | 240 | A | H |
| | | 2480 | 102.38 | - | - | 95.79 | 31.8 | 8.22 | 33.43 | 106 | 240 | P | H |
| | | 2480 | 100.86 | - | - | 94.27 | 31.8 | 8.22 | 33.43 | 106 | 240 | A | H |
| | | 2483.62 | 57.82 | -16.18 | 74 | 50.17 | 32.86 | 8.22 | 33.43 | 350 | 286 | P | V |
| | | 2483.5 | 49.12 | -4.88 | 54 | 41.47 | 32.86 | 8.22 | 33.43 | 350 | 286 | A | V |
| | | 2480 | 98.92 | - | - | 91.27 | 32.86 | 8.22 | 33.43 | 350 | 286 | P | V |
| | | 2480 | 97.39 | - | - | 89.74 | 32.86 | 8.22 | 33.43 | 350 | 286 | A | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



2.4GHz 2400~2483.5MHz

BLE (Harmonic @ 3m)

| BLE | Note | Frequency (MHz) | Level (dBμV/m) | Over Limit (dB) | Limit Line (dBμV/m) | Read Level (dBμV) | Antenna Factor (dB/m) | Path Loss (dB) | Preamp Factor (dB) | Ant Pos (cm) | Table Pos (deg) | Peak Avg. (P/A) | Pol. (H/V) |
|-------------------------|---|----------------------|---------------------|-------------------------|-----------------------------|---------------------------|-------------------------------|------------------------|----------------------------|----------------------|-------------------------|-------------------------|-----------------|
| BLE CH 00 2402MHz | | 4806 | 47.63 | -26.37 | 74 | 62.33 | 34.96 | 11.51 | 61.17 | 300 | 0 | P | H |
| | | 4806 | 44.92 | -29.08 | 74 | 59.74 | 34.84 | 11.51 | 61.17 | 300 | 360 | P | V |
| BLE CH 19 2440MHz | | 4878 | 47.92 | -26.08 | 74 | 62.99 | 35.04 | 11.6 | 61.71 | 300 | 0 | P | H |
| | | 7320 | 42.61 | -31.39 | 74 | 52.96 | 36.86 | 14.69 | 61.9 | 300 | 0 | P | H |
| | | 4878 | 45.4 | -28.6 | 74 | 60.68 | 34.83 | 11.6 | 61.71 | 300 | 360 | P | V |
| | | 7320 | 41.53 | -32.47 | 74 | 52.34 | 36.4 | 14.69 | 61.9 | 300 | 360 | P | V |
| BLE CH 39 2480MHz | | 4962 | 49.8 | -24.2 | 74 | 63.99 | 35.14 | 11.71 | 61.04 | 300 | 0 | P | H |
| | | 7440 | 42.66 | -31.34 | 74 | 51.94 | 36.89 | 14.88 | 61.05 | 300 | 0 | P | H |
| | | 4962 | 46.77 | -27.23 | 74 | 61.29 | 34.81 | 11.71 | 61.04 | 300 | 360 | P | V |
| | | 7440 | 42.8 | -31.2 | 74 | 52.5 | 36.47 | 14.88 | 61.05 | 300 | 360 | P | V |
| Remark | 1. No other spurious found. 2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |



Emission below 1GHz

2.4GHz BLE (LF)

| BLE | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---------------------|--|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| 2.4GHz BLE LF | | 30 | 20.27 | -19.73 | 40 | 27.79 | 24.6 | 0.58 | 32.7 | | | P | H |
| | | 128.94 | 18.33 | -25.17 | 43.5 | 31.22 | 18.12 | 1.83 | 32.84 | | | P | H |
| | | 186.17 | 16.71 | -26.79 | 43.5 | 32.4 | 15.12 | 2.21 | 33.02 | | | P | H |
| | | 628.49 | 25.88 | -20.12 | 46 | 29.48 | 24.93 | 4.08 | 32.61 | | | P | H |
| | | 748.77 | 27.14 | -18.86 | 46 | 29.71 | 25.68 | 4.45 | 32.7 | | | P | H |
| | | 951.5 | 29.37 | -16.63 | 46 | 29.71 | 26.92 | 5.03 | 32.29 | 150 | 36 | P | H |
| | | 30 | 22.47 | -17.53 | 40 | 29.99 | 24.6 | 0.58 | 32.7 | | | P | V |
| | | 129.91 | 15.61 | -27.89 | 43.5 | 28.51 | 18.1 | 1.84 | 32.84 | | | P | V |
| | | 256.98 | 18.02 | -27.98 | 46 | 29.31 | 19.19 | 2.59 | 33.07 | | | P | V |
| | | 647.89 | 25.94 | -20.06 | 46 | 29.41 | 25.08 | 4.14 | 32.69 | | | P | V |
| | | 831.22 | 29.64 | -16.36 | 46 | 31.32 | 26.18 | 4.7 | 32.56 | | | P | V |
| | | 952.47 | 29.67 | -16.33 | 46 | 30 | 26.93 | 5.03 | 32.29 | 236 | 45 | P | V |
| Remark | 1. No other spurious found. 2. All results are PASS against limit line. | | | | | | | | | | | | |

**Note symbol**

| | |
|-----|--|
| * | Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| ! | Test result is over limit line. |
| P/A | P eak or A verage |
| H/V | H orizontal or V ertical |



A calculation example for radiated spurious emission is shown as below:

| BLE | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|-------------------------|------|-----------|------------|--------|------------|----------|----------|--------|--------|--------|---------|---------|---------|
| | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| | | (MHz) | (dBμV/m) | (dB) | (dBμV/m) | (dBμV) | (dB/m) | (dB) | (dB) | (cm) | (deg) | (P/A) | (H/V) |
| BLE CH 00 2402MHz | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | P | H |
| | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | A | H |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

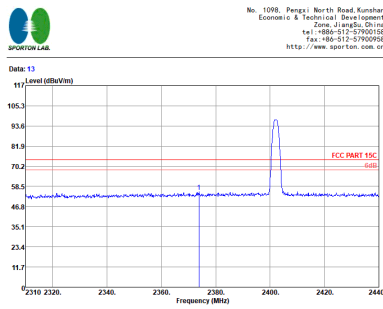
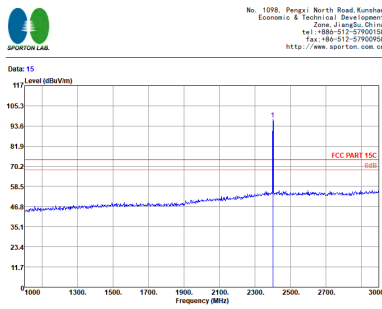
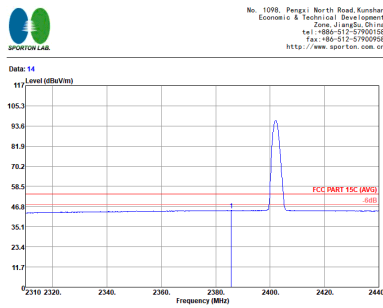
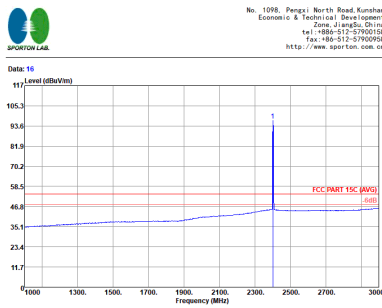


Appendix C. Radiated Spurious Emission Plots

Note symbol

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

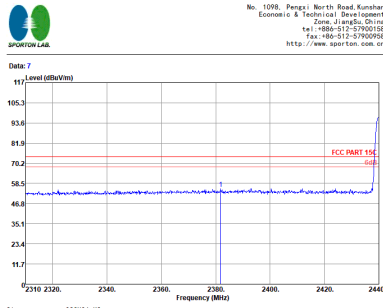
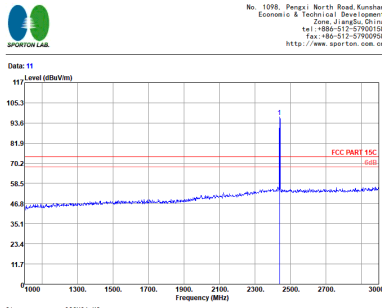
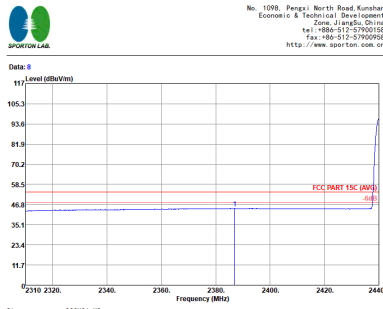
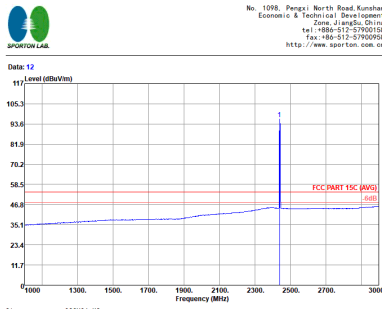


| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|--------------------------------------|-------------|--------------|--------------|--------------|-----------|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|----------|-----|-------|------------|-------------|--------------|-------|-------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|------|----------|-----|--|-----|-------|------------|-------------|--------------|-------|-------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|-----|-------|------------|-------------|--------------|-------|-------|--------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H0-KS Condition : FCC PART 15C 3m 3117.5N 75957 VERTICAL Project : RSM 1000.000KHz YBW 3000.000KHz SMT Auto Mode : (FR) 120207-01 Plane : 1 Single-directivity MEI : 46</p><table><tr><th>MEI</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th></tr><tr><td>1</td><td>2373.83</td><td>55.35</td><td>-18.65</td><td>74.00</td><td>47.45</td><td>33.29</td><td>8.06</td><td>33.45</td><td>100</td><td>291</td><td>Peak</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H0-KS Condition : FCC PART 15C 3m 3117.5N 75957 VERTICAL Project : RSM 1000.000KHz YBW 3000.000KHz SMT Auto Mode : (FR) 120207-01 Plane : 1 Single-directivity MEI : 46</p><table><tr><th>MEI</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th></tr><tr><td>1</td><td>2402.00</td><td>97.44</td><td>23.44</td><td>74.00</td><td>89.29</td><td>33.50</td><td>8.09</td><td>33.44</td><td>100</td><td>291</td><td>Peak</td><td>VERTICAL</td></tr></table></div></div> | MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | 1 | 2373.83 | 55.35 | -18.65 | 74.00 | 47.45 | 33.29 | 8.06 | 33.45 | 100 | 291 | Peak | VERTICAL | MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | 1 | 2402.00 | 97.44 | 23.44 | 74.00 | 89.29 | 33.50 | 8.09 | 33.44 | 100 | 291 | Peak | VERTICAL | Avg | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H0-KS Condition : FCC PART 15C (AVG) 3m 3117.5N 75957 VERTICAL Project : RSM 1000.000KHz YBW 3000.000KHz SMT Auto Mode : (FR) 120207-01 Plane : 1 Single-directivity MEI : 46</p><table><tr><th>MEI</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th></tr><tr><td>1</td><td>2385.66</td><td>44.54</td><td>-9.46</td><td>54.00</td><td>36.40</td><td>33.50</td><td>8.09</td><td>33.45</td><td>100</td><td>291</td><td>Average</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H0-KS Condition : FCC PART 15C (AVG) 3m 3117.5N 75957 VERTICAL Project : RSM 1000.000KHz YBW 3000.000KHz SMT Auto Mode : (FR) 120207-01 Plane : 1 Single-directivity MEI : 46</p><table><tr><th>MEI</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dBm/100Hz</th></tr><tr><td>1</td><td>2402.00</td><td>96.83</td><td>42.83</td><td>54.00</td><td>88.68</td><td>33.50</td><td>8.09</td><td>33.44</td><td>100</td><td>291</td><td>Average</td><td>VERTICAL</td></tr></table></div></div> | MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | 1 | 2385.66 | 44.54 | -9.46 | 54.00 | 36.40 | 33.50 | 8.09 | 33.45 | 100 | 291 | Average | VERTICAL | MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | 1 | 2402.00 | 96.83 | 42.83 | 54.00 | 88.68 | 33.50 | 8.09 | 33.44 | 100 | 291 | Average | VERTICAL |
| | MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2373.83 | 55.35 | -18.65 | 74.00 | 47.45 | 33.29 | 8.06 | 33.45 | 100 | 291 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 97.44 | 23.44 | 74.00 | 89.29 | 33.50 | 8.09 | 33.44 | 100 | 291 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2385.66 | 44.54 | -9.46 | 54.00 | 36.40 | 33.50 | 8.09 | 33.45 | 100 | 291 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEI | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | dBm/100Hz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 96.83 | 42.83 | 54.00 | 88.68 | 33.50 | 8.09 | 33.44 | 100 | 291 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

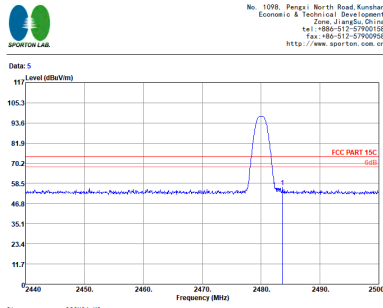
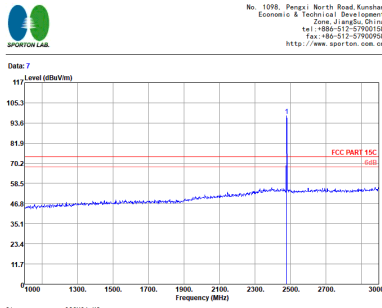
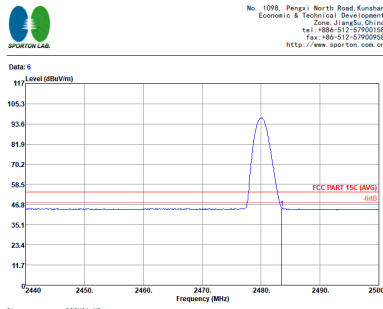
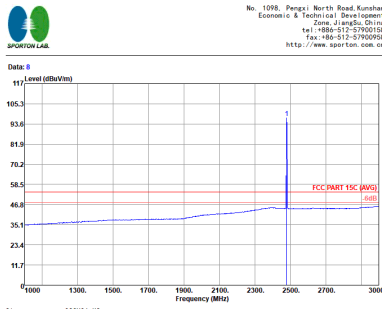


| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|-------------|--------|--------------|--------------|--------------|-------------|--------|----------|-------------|------------|-----|--------|----|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|------------|------------|
| ANT | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div><p>No. 109B, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 3</p><p>Site : 030602-KS Condition : FCC PART 15C 3m 3117.5N 75957 HORIZONTAL Project : R08-1000.000000 V08-3000.000000 SRT-Auto Mode : 2 Plane : 0 Single-directivity : IME1 : 84</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2490.28</td><td>54.53</td><td>-19.47</td><td>74.00</td><td>48.01</td><td>31.70</td><td>8.24</td><td>33.42</td><td>138</td><td>230 Peak</td><td>HORIZONTAL</td></tr></tbody></table></div></div> | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Poss | T/Poss | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 2490.28 | 54.53 | -19.47 | 74.00 | 48.01 | 31.70 | 8.24 | 33.42 | 138 | 230 Peak | HORIZONTAL | Left blank |
| | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Poss | T/Poss | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2490.28 | 54.53 | -19.47 | 74.00 | 48.01 | 31.70 | 8.24 | 33.42 | 138 | 230 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div><p>No. 109B, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 4</p><p>Site : 030602-KS Condition : FCC PART 15C (AVG) 3m 3117.5N 75957 HORIZONTAL Project : R08-1000.000000 V08-3000.000000 SRT-Auto Mode : 2 Plane : 0 Single-directivity : IME1 : 84</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2485.96</td><td>43.15</td><td>-10.85</td><td>54.00</td><td>36.65</td><td>31.70</td><td>8.22</td><td>33.42</td><td>138</td><td>230 Average</td><td>HORIZONTAL</td></tr></tbody></table></div></div> | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Poss | T/Poss | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 2485.96 | 43.15 | -10.85 | 54.00 | 36.65 | 31.70 | 8.22 | 33.42 | 138 | 230 Average | HORIZONTAL | Left blank |
| Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Poss | T/Poss | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2485.96 | 43.15 | -10.85 | 54.00 | 36.65 | 31.70 | 8.22 | 33.42 | 138 | 230 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|-------|-------------|-----------|--------|-------------|--------|--------|-------------|-------|---------|----------|-------|--------|----------|--|-------|-------|------|-------|--------|------|--------|--|--|--|-----------|----|-----------|-----------|----|----|----|----|-----|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-----|------|----------|------|------|-------|-------------|-------|--------|-------|-------|--------|----------|--|-------|-------|------|-------|--------|------|--------|--|--|--|-----------|----|-----------|-----------|----|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|------|----------|--|--|--|--|--|------|------|-------|-------------|-------|--------|-------|-------|--------|----------|--|-------|-------|------|-------|--------|------|--------|--|--|--|-----------|----|-----------|-----------|----|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|------|------|-------|-------------|-------|--------|-------|-------|--------|----------|--|-------|-------|------|-------|--------|------|--------|--|--|--|-----------|----|-----------|-----------|----|----|----|----|-----|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | | | | | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RBR 1000.000000 VBR 3000.000000 SMT Auto Mode : (FR) 120207-01 Plane : 2 Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2381.76</td><td>55.40</td><td>-18.60</td><td>74.00</td><td>47.50</td><td>33.29</td><td>8.06</td><td>33.45</td><td>361</td><td>288</td><td>Peak</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RBR 1000.000000 VBR 3000.000000 SMT Auto Mode : (FR) 120207-01 Plane : 2 Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</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>97.06</td><td>23.06</td><td>74.00</td><td>89.22</td><td>33.11</td><td>8.16</td><td>33.43</td><td>361</td><td>288</td><td>Peak</td><td>VERTICAL</td></tr></table></div></div> | | | | | IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | Level | Level | Line | Level | Factor | Loss | Factor | | | | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | 1 | 2381.76 | 55.40 | -18.60 | 74.00 | 47.50 | 33.29 | 8.06 | 33.45 | 361 | 288 | Peak | VERTICAL | IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | Level | Level | Line | Level | Factor | Loss | Factor | | | | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | 1 | 2440.00 | 97.06 | 23.06 | 74.00 | 89.22 | 33.11 | 8.16 | 33.43 | 361 | 288 | Peak | VERTICAL | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : RBR 1000.000000 VBR 3.470000 SMT Auto Mode : (FR) 120207-01 Plane : 2 Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>2386.96</td><td>44.61</td><td>-9.39</td><td>54.00</td><td>36.47</td><td>33.50</td><td>8.09</td><td>33.45</td><td>361</td><td>288</td><td>Average</td><td>VERTICAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : RBR 1000.000000 VBR 3.470000 SMT Auto Mode : (FR) 120207-01 Plane : 2 Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>Level</th><th>Level</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>dBm/100Hz</th><th>dB</th><th>dBm/100Hz</th><th>dBm/100Hz</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>96.44</td><td>42.44</td><td>54.00</td><td>88.60</td><td>33.11</td><td>8.16</td><td>33.43</td><td>361</td><td>288</td><td>Average</td><td>VERTICAL</td></tr></table></div></div> | | | | | IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | Level | Level | Line | Level | Factor | Loss | Factor | | | | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | 1 | 2386.96 | 44.61 | -9.39 | 54.00 | 36.47 | 33.50 | 8.09 | 33.45 | 361 | 288 | Average | VERTICAL | IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | Level | Level | Line | Level | Factor | Loss | Factor | | | | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | 1 | 2440.00 | 96.44 | 42.44 | 54.00 | 88.60 | 33.11 | 8.16 | 33.43 | 361 | 288 | Average | VERTICAL |
| IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Level | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2381.76 | 55.40 | -18.60 | 74.00 | 47.50 | 33.29 | 8.06 | 33.45 | 361 | 288 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Level | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 97.06 | 23.06 | 74.00 | 89.22 | 33.11 | 8.16 | 33.43 | 361 | 288 | Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Level | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2386.96 | 44.61 | -9.39 | 54.00 | 36.47 | 33.50 | 8.09 | 33.45 | 361 | 288 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Level | Level | Line | Level | Factor | Loss | Factor | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | dBm/100Hz | dB | dBm/100Hz | dBm/100Hz | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 96.44 | 42.44 | 54.00 | 88.60 | 33.11 | 8.16 | 33.43 | 361 | 288 | Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--------------------------------------|--------------|--------------|--------------|--------------|--------------|--------|----------|-------------|----------|-----|------------|------------|------------|------------|------------|-----|-----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|--|-----|-------|------|--------------|-------------|--------------|-------|-------|--------|----------|-----|------------|------------|------------|------------|------------|-----|-----|-----|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-------------|----------|
| ANT | | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030804-KS Condition : FCC PART 15C 3m 3117.5N 75957 VERTICAL RBW 1000.000kHz VBW 3000.000kHz SMT Auto Project : (FR)120207-01 Mode : 2 Plane : X Single-directivity IME1 : 46</p><table><thead><tr><th>ME1</th><th>Level</th><th>Line</th><th>Level Factor</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm</th><th>dBm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2483.62</td><td>56.28</td><td>-17.72</td><td>74.00</td><td>48.63</td><td>32.86</td><td>8.22</td><td>33.43</td><td>391</td><td>264 Peak</td><td>VERTICAL</td></tr></tbody></table></div></div> | ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | 1 | 2483.62 | 56.28 | -17.72 | 74.00 | 48.63 | 32.86 | 8.22 | 33.43 | 391 | 264 Peak | VERTICAL | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030804-KS Condition : FCC PART 15C 3m 3117.5N 75957 VERTICAL RBW 1000.000kHz VBW 3000.000kHz SMT Auto Project : (FR)120207-01 Mode : 2 Plane : X Single-directivity IME1 : 46</p><table><thead><tr><th>ME1</th><th>Level</th><th>Line</th><th>Level Factor</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm</th><th>dBm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>97.64</td><td>23.64</td><td>74.00</td><td>89.99</td><td>32.86</td><td>8.22</td><td>33.43</td><td>391</td><td>264 Peak</td><td>VERTICAL</td></tr></tbody></table></div></div> | ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | 1 | 2480.00 | 97.64 | 23.64 | 74.00 | 89.99 | 32.86 | 8.22 | 33.43 | 391 | 264 Peak | VERTICAL |
| | ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.62 | 56.28 | -17.72 | 74.00 | 48.63 | 32.86 | 8.22 | 33.43 | 391 | 264 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 97.64 | 23.64 | 74.00 | 89.99 | 32.86 | 8.22 | 33.43 | 391 | 264 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030804-KS Condition : FCC PART 15C (AVG) 3m 3117.5N 75957 VERTICAL RBW 1000.000kHz VBW 5.4700kHz SMT Auto Project : (FR)120207-01 Mode : 2 Plane : X Single-directivity IME1 : 46</p><table><thead><tr><th>ME1</th><th>Level</th><th>Line</th><th>Level Factor</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm</th><th>dBm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2483.50</td><td>45.06</td><td>-8.94</td><td>54.00</td><td>37.41</td><td>32.86</td><td>8.22</td><td>33.43</td><td>391</td><td>264 Average</td><td>VERTICAL</td></tr></tbody></table></div></div> | ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | 1 | 2483.50 | 45.06 | -8.94 | 54.00 | 37.41 | 32.86 | 8.22 | 33.43 | 391 | 264 Average | VERTICAL | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030804-KS Condition : FCC PART 15C (AVG) 3m 3117.5N 75957 VERTICAL RBW 1000.000kHz VBW 5.4700kHz SMT Auto Project : (FR)120207-01 Mode : 2 Plane : X Single-directivity IME1 : 46</p><table><thead><tr><th>ME1</th><th>Level</th><th>Line</th><th>Level Factor</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm/100kHz</th><th>dBm</th><th>dBm</th><th>deg</th><th></th></tr></thead><tbody><tr><td>1</td><td>2480.00</td><td>97.05</td><td>43.05</td><td>54.00</td><td>89.40</td><td>32.86</td><td>8.22</td><td>33.43</td><td>391</td><td>264 Average</td><td>VERTICAL</td></tr></tbody></table></div></div> | ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | 1 | 2480.00 | 97.05 | 43.05 | 54.00 | 89.40 | 32.86 | 8.22 | 33.43 | 391 | 264 Average | VERTICAL |
| ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 45.06 | -8.94 | 54.00 | 37.41 | 32.86 | 8.22 | 33.43 | 391 | 264 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ME1 | Level | Line | Level Factor | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm/100kHz | dBm | dBm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 97.05 | 43.05 | 54.00 | 89.40 | 32.86 | 8.22 | 33.43 | 391 | 264 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

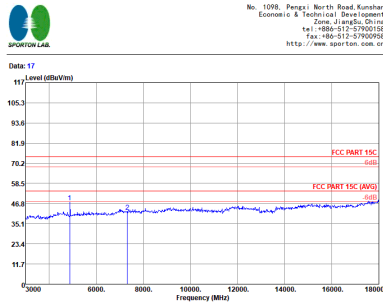
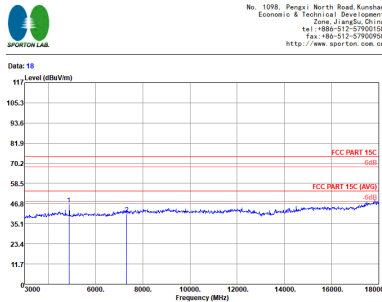


2.4GHz 2400~2483.5MHz

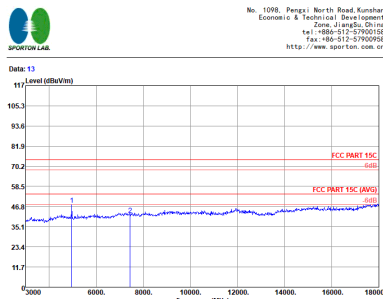
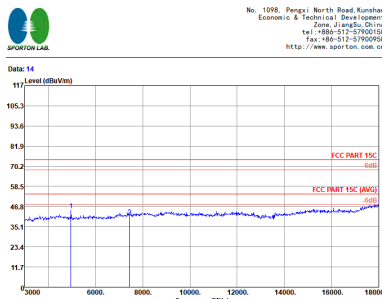
BLE (Harmonic @ 3m)

| BLE | | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | |
|------------------|---|-------------------------------------|--|
| ANT | | BLE CH00 2402MHz | |
| 1 | | Horizontal | |
| Peak Avg. | 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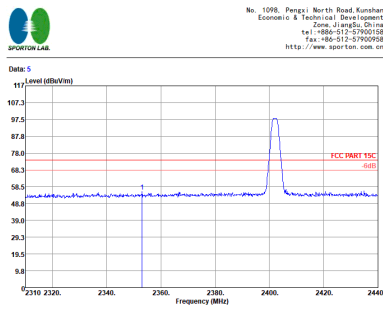
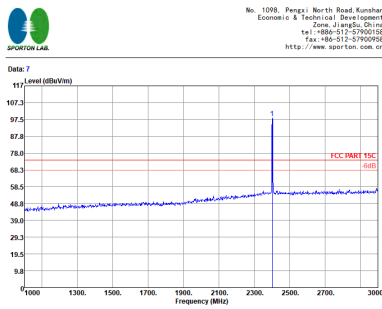
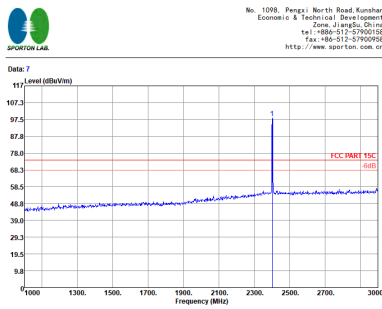
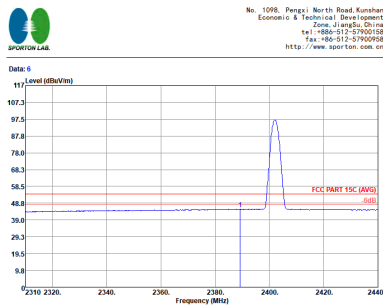
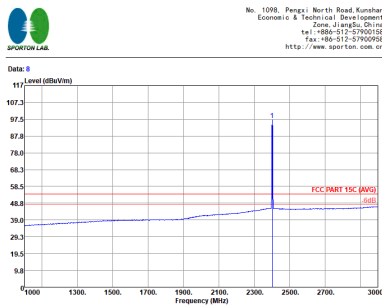
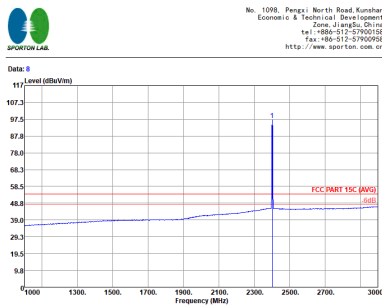


| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ANT | BLE CH19 2440MHZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117 5N 75957 HORIZONTAL Project : RBW 1000.000KHz VBW 3000.000KHz SMT Auto Mode : FREQ 100000-01 Plane : 2 Polar : Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4878.00</td><td>47.70</td><td>-26.30</td><td>74.00</td><td>62.77</td><td>35.04</td><td>11.60</td><td>61.71</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7320.00</td><td>41.90</td><td>-32.10</td><td>74.00</td><td>52.25</td><td>36.86</td><td>14.69</td><td>61.90</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div></div> <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RBW 1000.000KHz VBW 3000.000KHz SMT Auto Mode : FREQ 100000-01 Plane : 2 Polar : Single-directivity IME1 : 46</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4878.00</td><td>46.15</td><td>-27.85</td><td>74.00</td><td>61.43</td><td>34.83</td><td>11.60</td><td>61.71</td><td>300 360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7320.00</td><td>40.89</td><td>-33.11</td><td>74.00</td><td>51.70</td><td>35.40</td><td>14.69</td><td>61.90</td><td>300 360 Peak</td><td>VERTICAL</td></tr></table></div></div> | IME1 | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | dB | deg | | | 1 | 4878.00 | 47.70 | -26.30 | 74.00 | 62.77 | 35.04 | 11.60 | 61.71 | 0 Peak | HORIZONTAL | 2 | 7320.00 | 41.90 | -32.10 | 74.00 | 52.25 | 36.86 | 14.69 | 61.90 | 0 Peak | HORIZONTAL | IME1 | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | dB | deg | | | 1 | 4878.00 | 46.15 | -27.85 | 74.00 | 61.43 | 34.83 | 11.60 | 61.71 | 300 360 Peak | VERTICAL | 2 | 7320.00 | 40.89 | -33.11 | 74.00 | 51.70 | 35.40 | 14.69 | 61.90 | 300 360 Peak | VERTICAL |
| IME1 | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | dB | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 47.70 | -26.30 | 74.00 | 62.77 | 35.04 | 11.60 | 61.71 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 41.90 | -32.10 | 74.00 | 52.25 | 36.86 | 14.69 | 61.90 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV/m | dB | dB | dB | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 46.15 | -27.85 | 74.00 | 61.43 | 34.83 | 11.60 | 61.71 | 300 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 40.89 | -33.11 | 74.00 | 51.70 | 35.40 | 14.69 | 61.90 | 300 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|----------|--------|--------|--------------|-------------|--------------|-------------|----------|------------|--------|----------|--|-----|--------|----|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|--------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|--------|------------|--|-----|------|-------|-------|------|--------------|-------------|-------|-------|--------|----------|--|-----|--------|----|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|----------|----------|---|---------|-------|--------|-------|-------|-------|-------|-------|----------|----------|
| ANT | BLE CH39 2480MHZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117.5N 75957 HORIZONTAL Project : RBW 1000.000KHz VBW 3000.000KHz SMT Auto Project : FPO130007-01 Mode : 2 Plane : 6 Single-directivity IME1</p><table><tr><th>MEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm/Hz</th><th>dB</th><th>dBm/Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>48.03</td><td>-25.97</td><td>74.00</td><td>62.88</td><td>35.14</td><td>11.71</td><td>61.70</td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7440.00</td><td>41.98</td><td>-32.02</td><td>74.00</td><td>52.11</td><td>36.89</td><td>14.88</td><td>61.90</td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div> | MEI | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | MHz | dBm/Hz | dB | dBm/Hz | dB | dB | cm | deg | | | 1 | 4962.00 | 48.03 | -25.97 | 74.00 | 62.88 | 35.14 | 11.71 | 61.70 | 0 Peak | HORIZONTAL | 2 | 7440.00 | 41.98 | -32.02 | 74.00 | 52.11 | 36.89 | 14.88 | 61.90 | 0 Peak | HORIZONTAL | <div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030H04-K5 Condition : FCC PART 15C 3m 3117.5N 75957 VERTICAL Project : RBW 1000.000KHz VBW 3000.000KHz SMT Auto Project : FPO130007-01 Mode : 2 Plane : 6 Single-directivity IME1</p><table><tr><th>MEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm/Hz</th><th>dB</th><th>dBm/Hz</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>44.73</td><td>-29.27</td><td>74.00</td><td>59.91</td><td>34.81</td><td>11.71</td><td>61.70</td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7440.00</td><td>40.93</td><td>-33.07</td><td>74.00</td><td>51.48</td><td>35.47</td><td>14.88</td><td>61.90</td><td>360 Peak</td><td>VERTICAL</td></tr></table></div> | MEI | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | MHz | dBm/Hz | dB | dBm/Hz | dB | dB | cm | deg | | | 1 | 4962.00 | 44.73 | -29.27 | 74.00 | 59.91 | 34.81 | 11.71 | 61.70 | 360 Peak | VERTICAL | 2 | 7440.00 | 40.93 | -33.07 | 74.00 | 51.48 | 35.47 | 14.88 | 61.90 | 360 Peak | VERTICAL |
| MEI | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm/Hz | dB | dBm/Hz | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 48.03 | -25.97 | 74.00 | 62.88 | 35.14 | 11.71 | 61.70 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 41.98 | -32.02 | 74.00 | 52.11 | 36.89 | 14.88 | 61.90 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MEI | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm/Hz | dB | dBm/Hz | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 44.73 | -29.27 | 74.00 | 59.91 | 34.81 | 11.71 | 61.70 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 40.93 | -33.07 | 74.00 | 51.48 | 35.47 | 14.88 | 61.90 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

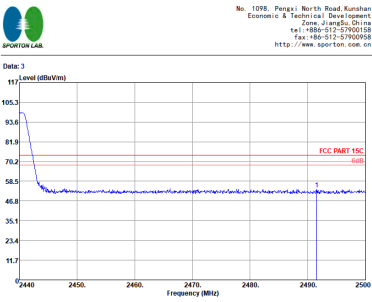
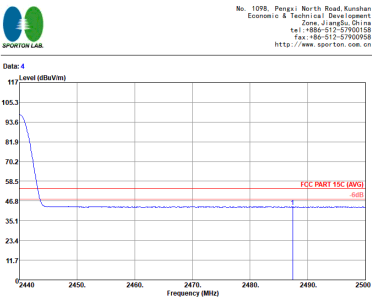


| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--------------------------------------|--------|-------------|--------------|--------------|--------------|--------|----------|-------------|----------|--|-----|-----|-----|-----|-----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|---|------|------|-------|-------|-------------|--------------|-------|-------|--------|----------|--|-----|-----|-----|-----|-----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-------------|----------|
| ANT | | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:3000.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2393.03</td><td>55.75</td><td>-18.25</td><td>74.00</td><td>48.10</td><td>33.08</td><td>8.02</td><td>33.45</td><td>381</td><td>280 Peak</td><td>VERTICAL</td></tr></table></div></div> <td><div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:3000.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00</td><td>98.51</td><td>24.51</td><td>74.00</td><td>90.36</td><td>33.50</td><td>8.09</td><td>33.44</td><td>381</td><td>280 Peak</td><td>VERTICAL</td></tr></table></div></div></td> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBm | dBm | dBm | dBm | cm | deg | | | 1 | 2393.03 | 55.75 | -18.25 | 74.00 | 48.10 | 33.08 | 8.02 | 33.45 | 381 | 280 Peak | VERTICAL | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:3000.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00</td><td>98.51</td><td>24.51</td><td>74.00</td><td>90.36</td><td>33.50</td><td>8.09</td><td>33.44</td><td>381</td><td>280 Peak</td><td>VERTICAL</td></tr></table></div></div> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBm | dBm | dBm | dBm | cm | deg | | | 1 | 2402.00 | 98.51 | 24.51 | 74.00 | 90.36 | 33.50 | 8.09 | 33.44 | 381 | 280 Peak | VERTICAL |
| | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dBm | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2393.03 | 55.75 | -18.25 | 74.00 | 48.10 | 33.08 | 8.02 | 33.45 | 381 | 280 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dBm | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 98.51 | 24.51 | 74.00 | 90.36 | 33.50 | 8.09 | 33.44 | 381 | 280 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:1.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2389.17</td><td>45.37</td><td>-8.43</td><td>54.00</td><td>37.23</td><td>33.50</td><td>8.09</td><td>33.45</td><td>381</td><td>280 Average</td><td>VERTICAL</td></tr></table></div></div> <td><div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:1.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00</td><td>97.01</td><td>43.01</td><td>54.00</td><td>88.86</td><td>33.50</td><td>8.09</td><td>33.44</td><td>381</td><td>280 Average</td><td>VERTICAL</td></tr></table></div></div></td> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBm | dBm | dBm | dBm | cm | deg | | | 1 | 2389.17 | 45.37 | -8.43 | 54.00 | 37.23 | 33.50 | 8.09 | 33.45 | 381 | 280 Average | VERTICAL | <div><div></div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 VERTICAL Project : RSM 1000.000MHz VSW:1.000kHz SMT:Auto Bode : 4 Plane : 2 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBm</th><th>dBm</th><th>dBm</th><th>dBm</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2402.00</td><td>97.01</td><td>43.01</td><td>54.00</td><td>88.86</td><td>33.50</td><td>8.09</td><td>33.44</td><td>381</td><td>280 Average</td><td>VERTICAL</td></tr></table></div></div> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBm | dBm | dBm | dBm | cm | deg | | | 1 | 2402.00 | 97.01 | 43.01 | 54.00 | 88.86 | 33.50 | 8.09 | 33.44 | 381 | 280 Average | VERTICAL |
| | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dBm | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2389.17 | 45.37 | -8.43 | 54.00 | 37.23 | 33.50 | 8.09 | 33.45 | 381 | 280 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBm | dBm | dBm | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2402.00 | 97.01 | 43.01 | 54.00 | 88.86 | 33.50 | 8.09 | 33.44 | 381 | 280 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--------------------------------------|--------|-------------|-------------|-------------|--------|--------|--------|-------------|------------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|------------|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|--------|----|--------|------|----|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-------------|------------|-------------|
| ANT | | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 1</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Project : R88-1000-0000Hz VBR-3000-0000Hz SRT-Auto Mode : (FR)120207-01 Plane : S Single-directivity : S IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2335.22</td><td>54.19</td><td>-19.81</td><td>74.00</td><td>47.66</td><td>32.00</td><td>7.99</td><td>33.46</td><td>137</td><td>237 Peak</td><td>HORIZONTAL</td></tr></table></div></div> <div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 5</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Project : R88-1000-0000Hz VBR-3000-0000Hz SRT-Auto Mode : (FR)120207-01 Plane : S Single-directivity : S IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2440.00</td><td>99.47</td><td>25.47</td><td>74.00</td><td>92.74</td><td>32.00</td><td>8.16</td><td>33.43</td><td>137</td><td>237 Peak</td><td>HORIZONTAL</td></tr></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | 1 | 2335.22 | 54.19 | -19.81 | 74.00 | 47.66 | 32.00 | 7.99 | 33.46 | 137 | 237 Peak | HORIZONTAL | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | 1 | 2440.00 | 99.47 | 25.47 | 74.00 | 92.74 | 32.00 | 8.16 | 33.43 | 137 | 237 Peak | HORIZONTAL | Fundamental |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2335.22 | 54.19 | -19.81 | 74.00 | 47.66 | 32.00 | 7.99 | 33.46 | 137 | 237 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 99.47 | 25.47 | 74.00 | 92.74 | 32.00 | 8.16 | 33.43 | 137 | 237 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 2</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL Project : R88-1000-0000Hz VBR-1-0000Hz SRT-Auto Mode : (FR)120207-01 Plane : S Single-directivity : S IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2381.63</td><td>43.49</td><td>-10.51</td><td>54.00</td><td>36.78</td><td>32.10</td><td>8.06</td><td>33.45</td><td>137</td><td>237 Average</td><td>HORIZONTAL</td></tr></table></div></div> <div><div><p>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Date: 6</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL Project : R88-1000-0000Hz VBR-1-0000Hz SRT-Auto Mode : (FR)120207-01 Plane : S Single-directivity : S IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2440.00</td><td>97.94</td><td>43.94</td><td>54.00</td><td>91.21</td><td>32.00</td><td>8.16</td><td>33.43</td><td>137</td><td>237 Average</td><td>HORIZONTAL</td></tr></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | 1 | 2381.63 | 43.49 | -10.51 | 54.00 | 36.78 | 32.10 | 8.06 | 33.45 | 137 | 237 Average | HORIZONTAL | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | 1 | 2440.00 | 97.94 | 43.94 | 54.00 | 91.21 | 32.00 | 8.16 | 33.43 | 137 | 237 Average | HORIZONTAL | Fundamental |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2381.63 | 43.49 | -10.51 | 54.00 | 36.78 | 32.10 | 8.06 | 33.45 | 137 | 237 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2440.00 | 97.94 | 43.94 | 54.00 | 91.21 | 32.00 | 8.16 | 33.43 | 137 | 237 Average | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

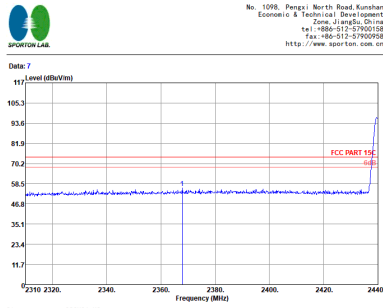
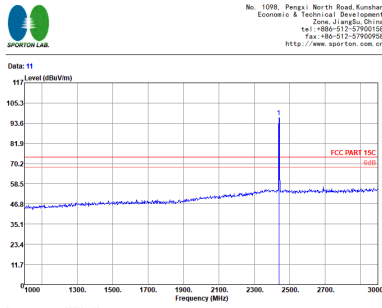
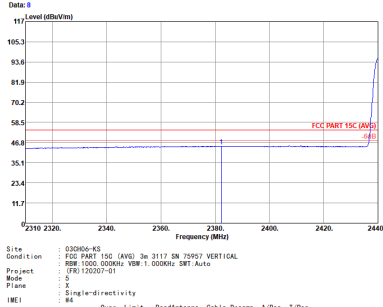
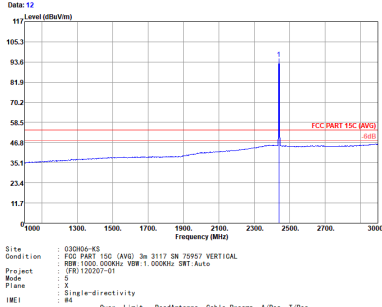


| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--------------------------------------|--------|--------------|--------------|--------------|-------------|--------|----------|-------------|----------|-----|--------|----|--------|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|------------|
| ANT | | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div><p>No. 109B, Pengzi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030605-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Power : 1000.000000 W 3000.000000 SRT Auto Project : FR120207-01 Mode : S Plane : S Single/directivity : Single-directivity IME1 : 84</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2491.54</td><td>53.72</td><td>-20.28</td><td>74.00</td><td>47.20</td><td>31.70</td><td>8.24</td><td>33.42</td><td>137</td><td>237 Peak</td></tr></tbody></table></div></div> | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 2491.54 | 53.72 | -20.28 | 74.00 | 47.20 | 31.70 | 8.24 | 33.42 | 137 | 237 Peak | Left blank |
| | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2491.54 | 53.72 | -20.28 | 74.00 | 47.20 | 31.70 | 8.24 | 33.42 | 137 | 237 Peak | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div><p>No. 109B, Pengzi North Road Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030605-KS Condition : FCC PART 15C (AVG) 3m 3117 SN 75957 HORIZONTAL Power : 1000.000000 W 3000.000000 SRT Auto Project : FR120207-01 Mode : S Plane : S Single/directivity : Single-directivity IME1 : 84</p><table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Poi/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr></thead><tbody><tr><td>1</td><td>2487.40</td><td>43.40</td><td>-10.60</td><td>54.00</td><td>36.90</td><td>31.70</td><td>8.22</td><td>33.42</td><td>137</td><td>237 Average</td></tr></tbody></table></div></div> | Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 2487.40 | 43.40 | -10.60 | 54.00 | 36.90 | 31.70 | 8.22 | 33.42 | 137 | 237 Average | Left blank |
| Freq | Level | Limit | Line | Level Factor | Loss Factor | A/Pos | T/Pos | Remark | Poi/Phas | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2487.40 | 43.40 | -10.60 | 54.00 | 36.90 | 31.70 | 8.22 | 33.42 | 137 | 237 Average | | | | | | | | | | | | | | | | | | | | | | | |


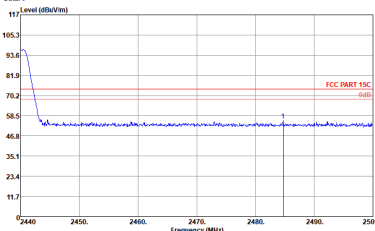

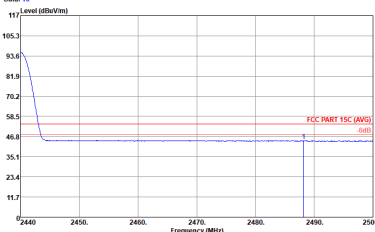


FCC RF Test Report

Report No. : FR120207-01

| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--------------------------------------|---------|---------|--------|--------|-------|-------|-------|-------|-------|---------|----------|----------|----------|--|------|---|---------|-------|-------|-------|-------|-------|------|-------|-----|-----|---------|----------|
| ANT | | BLE CH19 2440MHz - L | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RRM-1000 0000Hz VSW:3000.0000Hz SMT:Auto Mode : (FR)120207-01 Plane : 5 IMEI : Single-directivity</p><table><tr><th>IMEI</th><th>1</th><th>2367.85</th><th>55.89</th><th>-18.11</th><th>74.00</th><th>48.24</th><th>33.08</th><th>8.02</th><th>33.45</th><th>366</th><th>288</th><th>Peak</th><th>VERTICAL</th></tr></table></div></div> | IMEI | 1 | 2367.85 | 55.89 | -18.11 | 74.00 | 48.24 | 33.08 | 8.02 | 33.45 | 366 | 288 | Peak | VERTICAL | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : RRM-1000 0000Hz VSW:3000.0000Hz SMT:Auto Mode : (FR)120207-01 Plane : 5 IMEI : Single-directivity</p><table><tr><th>IMEI</th><th>1</th><th>2440.00</th><th>97.02</th><th>23.02</th><th>74.00</th><th>89.18</th><th>33.11</th><th>8.16</th><th>33.43</th><th>366</th><th>288</th><th>Peak</th><th>VERTICAL</th></tr></table></div></div> | IMEI | 1 | 2440.00 | 97.02 | 23.02 | 74.00 | 89.18 | 33.11 | 8.16 | 33.43 | 366 | 288 | Peak | VERTICAL |
| | IMEI | 1 | 2367.85 | 55.89 | -18.11 | 74.00 | 48.24 | 33.08 | 8.02 | 33.45 | 366 | 288 | Peak | VERTICAL | | | | | | | | | | | | | | | | |
| IMEI | 1 | 2440.00 | 97.02 | 23.02 | 74.00 | 89.18 | 33.11 | 8.16 | 33.43 | 366 | 288 | Peak | VERTICAL | | | | | | | | | | | | | | | | | |
| Avg. | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : RRM-1000 0000Hz VSW:1.0000Hz SMT:Auto Mode : (FR)120207-01 Plane : 5 IMEI : Single-directivity</p><table><tr><th>IMEI</th><th>1</th><th>2382.28</th><th>44.78</th><th>-9.22</th><th>54.00</th><th>36.88</th><th>33.29</th><th>8.06</th><th>33.45</th><th>366</th><th>288</th><th>Average</th><th>VERTICAL</th></tr></table></div></div> | IMEI | 1 | 2382.28 | 44.78 | -9.22 | 54.00 | 36.88 | 33.29 | 8.06 | 33.45 | 366 | 288 | Average | VERTICAL | <div><div></div><div><p>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : RRM-1000 0000Hz VSW:1.0000Hz SMT:Auto Mode : (FR)120207-01 Plane : 5 IMEI : Single-directivity</p><table><tr><th>IMEI</th><th>1</th><th>2440.00</th><th>95.47</th><th>41.47</th><th>54.00</th><th>87.63</th><th>33.11</th><th>8.16</th><th>33.43</th><th>366</th><th>288</th><th>Average</th><th>VERTICAL</th></tr></table></div></div> | IMEI | 1 | 2440.00 | 95.47 | 41.47 | 54.00 | 87.63 | 33.11 | 8.16 | 33.43 | 366 | 288 | Average | VERTICAL |
| | IMEI | 1 | 2382.28 | 44.78 | -9.22 | 54.00 | 36.88 | 33.29 | 8.06 | 33.45 | 366 | 288 | Average | VERTICAL | | | | | | | | | | | | | | | | |
| IMEI | 1 | 2440.00 | 95.47 | 41.47 | 54.00 | 87.63 | 33.11 | 8.16 | 33.43 | 366 | 288 | Average | VERTICAL | | | | | | | | | | | | | | | | | |


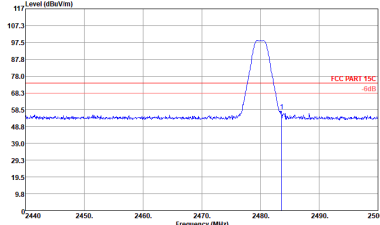

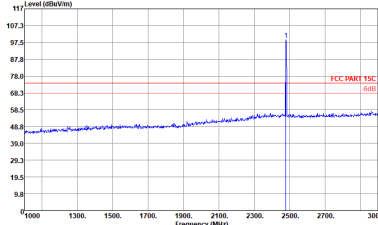

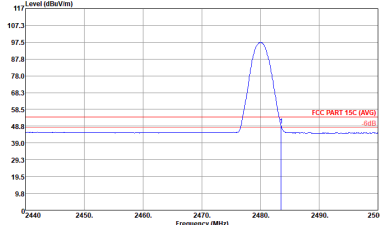

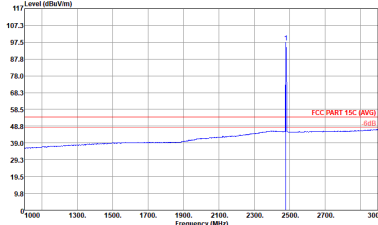


| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|--------------------------------------|--------|-------------|-------------|--------|--------|-------|--------|-------------|----------|-----|--------|----|--------|------|------|----|----|-----|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|-------------|----------|------------|
| ANT | | BLE CH19 2440MHz - R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><p>Data: 9</p><p>Site : 030904-KS Condition : FCC PART 15C 3m 3117 5N 70957 VERTICAL Power : 1000.000000 WSR:3000.000000 SMT:Auto Project : (FR)120207-01 Mode : S Plane : E Single-directivity : IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2484.70</td><td>55.65</td><td>-18.35</td><td>74.00</td><td>48.00</td><td>32.86</td><td>8.22</td><td>33.43</td><td>366</td><td>288 Peak</td><td>VERTICAL</td></tr></table></div> | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dBuV | dB | cm | deg | | 1 | 2484.70 | 55.65 | -18.35 | 74.00 | 48.00 | 32.86 | 8.22 | 33.43 | 366 | 288 Peak | VERTICAL | Left blank |
| | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2484.70 | 55.65 | -18.35 | 74.00 | 48.00 | 32.86 | 8.22 | 33.43 | 366 | 288 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div></div><div>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><p>Data: 10</p><p>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 5N 70957 VERTICAL Power : 1000.000000 WSR:1.000000 SMT:Auto Project : (FR)120207-01 Mode : S Plane : E Single-directivity : IMEI : 84</p><table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2488.18</td><td>44.46</td><td>-9.54</td><td>54.00</td><td>36.91</td><td>32.73</td><td>8.24</td><td>33.42</td><td>366</td><td>288 Average</td><td>VERTICAL</td></tr></table></div> | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBuV/m | dB | dBuV/m | dBuV | dBuV | dB | cm | deg | | 1 | 2488.18 | 44.46 | -9.54 | 54.00 | 36.91 | 32.73 | 8.24 | 33.42 | 366 | 288 Average | VERTICAL | Left blank |
| | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBuV/m | dB | dBuV/m | dBuV | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2488.18 | 44.46 | -9.54 | 54.00 | 36.91 | 32.73 | 8.24 | 33.42 | 366 | 288 Average | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | |



FCC RF Test Report


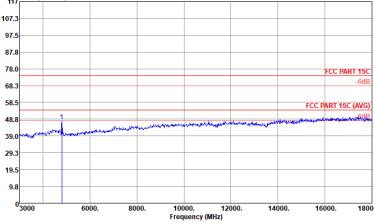

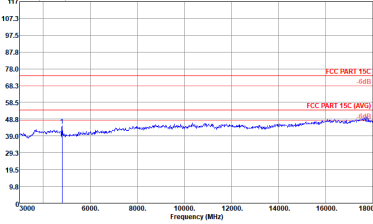
Report No. : FR120207-01

| BLE | | 2.4GHz 2400~2483.5MHz Band Edge @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|---|--------------------------------------|--------|-------------|-------------|-------------|--------|--------|--------|----------------------|----------|----------|--|-----|--------|----|--------|------|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|------|-------|-----|----------------------|--|------|------|-------|-------|-------------|-------|--------|-------|-------|--------|----------|--|-----|--------|----|--------|------|----|----|-----|--|--|---|---------|-------|-------|-------|-------|-------|------|-------|-----|----------------------|
| ANT | | BLE CH39 2480MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Vertical | Fundamental | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><div>Data: 5</div><div></div><div><div>Site : 030904-KS Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : R8W 1000.000MHz VSW:3000.000MHz SMT:Auto Bode : (FR)120207-01 Plane : 0 Polar : Single-directivity IMEI : 86</div><table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.62</td><td>57.82</td><td>-16.18</td><td>74.00</td><td>50.17</td><td>32.86</td><td>8.22</td><td>33.43</td><td>350</td><td>286 Peak VERTICAL</td></tr></table></div></div> | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | 1 | 2483.62 | 57.82 | -16.18 | 74.00 | 50.17 | 32.86 | 8.22 | 33.43 | 350 | 286 Peak VERTICAL | <div><div></div><div>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><div>Data: 7</div><div></div><div><div>Site : 030904-KS Condition : FCC PART 15C 3m 3117 5N 75957 VERTICAL Project : R8W 1000.000MHz VSW:3000.000MHz SMT:Auto Bode : (FR)120207-01 Plane : 0 Polar : Single-directivity IMEI : 86</div><table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>98.92</td><td>24.92</td><td>74.00</td><td>91.27</td><td>32.86</td><td>8.22</td><td>33.43</td><td>350</td><td>286 Peak VERTICAL</td></tr></table></div></div> | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | 1 | 2480.00 | 98.92 | 24.92 | 74.00 | 91.27 | 32.86 | 8.22 | 33.43 | 350 | 286 Peak VERTICAL |
| | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.62 | 57.82 | -16.18 | 74.00 | 50.17 | 32.86 | 8.22 | 33.43 | 350 | 286 Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 98.92 | 24.92 | 74.00 | 91.27 | 32.86 | 8.22 | 33.43 | 350 | 286 Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | <div><div></div><div>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><div>Data: 6</div><div></div><div><div>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : R8W 1000.000MHz VSW:1.000MHz SMT:Auto Bode : (FR)120207-01 Plane : 0 Polar : Single-directivity IMEI : 86</div><table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2483.50</td><td>49.12</td><td>-4.88</td><td>54.00</td><td>41.47</td><td>32.86</td><td>8.22</td><td>33.43</td><td>350</td><td>286 Average VERTICAL</td></tr></table></div></div> | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | 1 | 2483.50 | 49.12 | -4.88 | 54.00 | 41.47 | 32.86 | 8.22 | 33.43 | 350 | 286 Average VERTICAL | <div><div></div><div>No. 1098, Pengji North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div></div> <div><div>Data: 8</div><div></div><div><div>Site : 030904-KS Condition : FCC PART 15C (AVG) 3m 3117 5N 75957 VERTICAL Project : R8W 1000.000MHz VSW:1.000MHz SMT:Auto Bode : (FR)120207-01 Plane : 0 Polar : Single-directivity IMEI : 86</div><table><tr><th>IMEI</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>2480.00</td><td>97.39</td><td>43.39</td><td>54.00</td><td>89.74</td><td>32.86</td><td>8.22</td><td>33.43</td><td>350</td><td>286 Average VERTICAL</td></tr></table></div></div> | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | 1 | 2480.00 | 97.39 | 43.39 | 54.00 | 89.74 | 32.86 | 8.22 | 33.43 | 350 | 286 Average VERTICAL |
| | IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2483.50 | 49.12 | -4.88 | 54.00 | 41.47 | 32.86 | 8.22 | 33.43 | 350 | 286 Average VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IMEI | Freq | Level | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 2480.00 | 97.39 | 43.39 | 54.00 | 89.74 | 32.86 | 8.22 | 33.43 | 350 | 286 Average VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

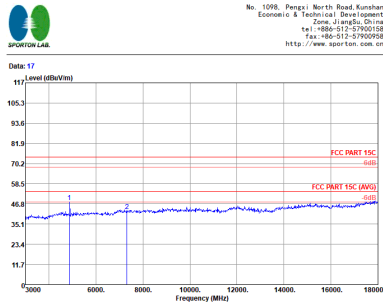
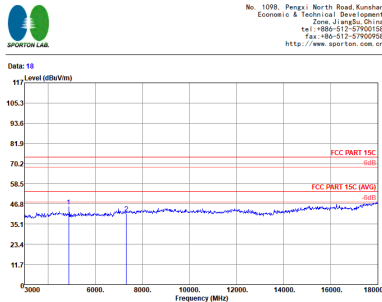


2.4GHz 2400~2483.5MHz

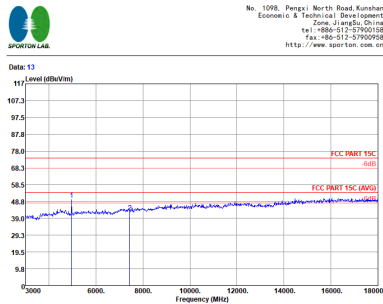
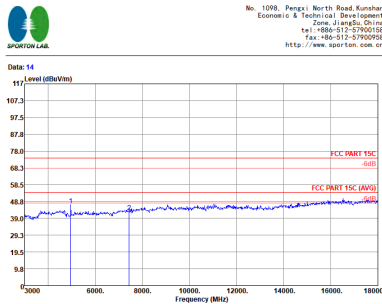
BLE (Harmonic @ 3m)

| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------|--|----------|-------|-------------|-------------|-------------|--------|--------|----------|------------|----------|----------|-----|------------|-------|------|-------|--------|------|--------|----|----|-----|-----------|-------|--------|-------|-------|-------|-------|-------|-----|--------|------------|------|-------|------|-------|-------------|-------|--------|-------|-------|--------|----------|-----|------------|-------|------|-------|--------|------|--------|----|----|-----|-----------|-------|--------|-------|-------|-------|-------|-------|-----|----------|----------|
| ANT | BLE CH00 2402MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak Avg. | <div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900158 http://www.sporton.com.cn</p></div><div><p>Date: 13</p><p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 75957 HORIZONTAL Project : RRM 1000 000000 VER 3000 000000 SRT Auto Mode : 4 Plane : 4 Polar : Single-directivity IME1 : 46</p><table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 4806.00</td><td>47.63</td><td>-26.37</td><td>74.00</td><td>62.33</td><td>34.96</td><td>11.51</td><td>61.17</td><td>300</td><td>0 Peak</td><td>HORIZONTAL</td></tr></tbody></table></div></div> <div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900158 http://www.sporton.com.cn</p></div><div><p>Date: 14</p><p>Site : 032006-KS Condition : FCC PART 15C 3m 3117 SN 75957 VERTICAL Project : RRM 1000 000000 VER 3000 000000 SRT Auto Mode : 4 Plane : 4 Polar : Single-directivity IME1 : 46</p><table><thead><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th>MHz</th><th>dBm/100kHz</th><th>Limit</th><th>Line</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1 4806.00</td><td>44.92</td><td>-29.08</td><td>74.00</td><td>59.74</td><td>34.84</td><td>11.51</td><td>61.17</td><td>300</td><td>360 Peak</td><td>VERTICAL</td></tr></tbody></table></div></div> | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | Limit | Line | Level | Factor | Loss | Factor | dB | cm | deg | 1 4806.00 | 47.63 | -26.37 | 74.00 | 62.33 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak | HORIZONTAL | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | MHz | dBm/100kHz | Limit | Line | Level | Factor | Loss | Factor | dB | cm | deg | 1 4806.00 | 44.92 | -29.08 | 74.00 | 59.74 | 34.84 | 11.51 | 61.17 | 300 | 360 Peak | VERTICAL |
| | Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | Limit | Line | Level | Factor | Loss | Factor | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4806.00 | 47.63 | -26.37 | 74.00 | 62.33 | 34.96 | 11.51 | 61.17 | 300 | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Freq | Level | Over | Limit | ReadAntenna | Cable | Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MHz | dBm/100kHz | Limit | Line | Level | Factor | Loss | Factor | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 4806.00 | 44.92 | -29.08 | 74.00 | 59.74 | 34.84 | 11.51 | 61.17 | 300 | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



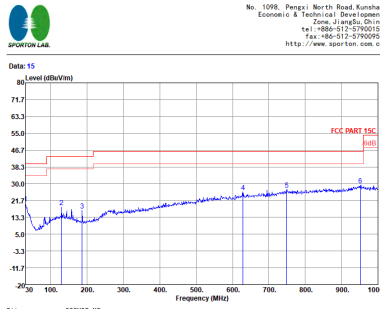
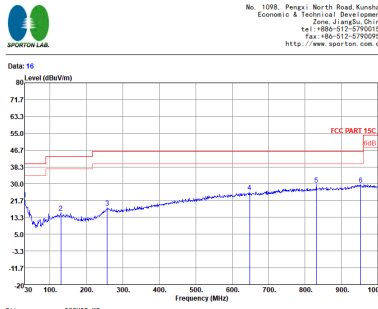
| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|----------|------------|-------------|--------------|-------------|--------------|--------|--------------|--------|----------|--|-----|--------|----|--------|------|-----|----|-----|--|---|---------|-------|--------|-------|-------|-------|-------|-------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|------------|---|------|------|-------|------------|-------------|--------------|-------|-------|--------|----------|--|-----|--------|----|--------|------|-----|----|-----|--|---|---------|-------|--------|-------|-------|-------|-------|-------|--------------|---|---------|-------|--------|-------|-------|-------|-------|-------|--------------|
| ANT | BLE CH19 2440MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL Project : R8W 1000.000kHz VSW:3000.000kHz SMT:Auto Bode : FRS120207-01 Plane : 5 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4878.00</td><td>47.92</td><td>-26.08</td><td>74.00</td><td>62.99</td><td>35.04</td><td>11.60</td><td>61.71</td><td>300 0 Peak</td></tr><tr><td>2</td><td>7320.00</td><td>42.61</td><td>-31.29</td><td>74.00</td><td>62.96</td><td>35.06</td><td>14.69</td><td>61.90</td><td>300 0 Peak</td></tr></table></div></div> | IME1 | Freq | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dBm | cm | deg | | 1 | 4878.00 | 47.92 | -26.08 | 74.00 | 62.99 | 35.04 | 11.60 | 61.71 | 300 0 Peak | 2 | 7320.00 | 42.61 | -31.29 | 74.00 | 62.96 | 35.06 | 14.69 | 61.90 | 300 0 Peak | <div><div></div><div><p>No. 1098, Pengxi North Road, Kunshan Economic & Technical Development Zone, Jiangsu, China Tel: +86-512-57900158 Fax: +86-512-57900958 http://www.sporton.com.cn</p><p>Site : 030906-KS Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : R8W 1000.000kHz VSW:3000.000kHz SMT:Auto Bode : FRS120207-01 Plane : 5 IME1 : Single-directivity</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Over Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dBm</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>4878.00</td><td>45.40</td><td>-28.40</td><td>74.00</td><td>60.88</td><td>34.83</td><td>11.60</td><td>61.71</td><td>300 360 Peak</td></tr><tr><td>2</td><td>7320.00</td><td>41.53</td><td>-32.47</td><td>74.00</td><td>62.34</td><td>35.40</td><td>14.69</td><td>61.90</td><td>300 360 Peak</td></tr></table></div></div> | IME1 | Freq | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dBuV | dBm | cm | deg | | 1 | 4878.00 | 45.40 | -28.40 | 74.00 | 60.88 | 34.83 | 11.60 | 61.71 | 300 360 Peak | 2 | 7320.00 | 41.53 | -32.47 | 74.00 | 62.34 | 35.40 | 14.69 | 61.90 | 300 360 Peak |
| IME1 | Freq | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 47.92 | -26.08 | 74.00 | 62.99 | 35.04 | 11.60 | 61.71 | 300 0 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 42.61 | -31.29 | 74.00 | 62.96 | 35.06 | 14.69 | 61.90 | 300 0 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Over Limit | ReadAntenna | Cable Preamp | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dBm | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4878.00 | 45.40 | -28.40 | 74.00 | 60.88 | 34.83 | 11.60 | 61.71 | 300 360 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7320.00 | 41.53 | -32.47 | 74.00 | 62.34 | 35.40 | 14.69 | 61.90 | 300 360 Peak | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Avg. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



| BLE | 2.4GHz 2400~2483.5MHz Harmonic @ 3m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------|--|----------|--------|--------|-------|-------------|-------|-------------|--------|--------|----------|------------|--------|----------|--|-----|--------|----|--------|----|----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--|--------|------------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--|--------|------------|---|------|------|-------|-------|------|------|-------------|-------|--------|--------|--------|--------|----------|--|-----|--------|----|--------|----|----|----|----|----|-----|--|--|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--|----------|----------|---|---------|-------|--------|-------|-------|-------|-------|-------|-----|--|----------|----------|
| ANT | BLE CH39 2480MHZ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Peak | <div><div></div><div><div>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div><div><div>Site : 030906-K5 Condition : FCC PART 15C 3m 3117 SN 70957 HORIZONTAL Project : R8W 1000.000kHz VSW: 3000.000kHz SMT: Auto Bode : 0 Plane : E IME1 : Single-directivity</div><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Line</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>49.80</td><td>-24.20</td><td>74.00</td><td>63.99</td><td>35.14</td><td>11.71</td><td>61.04</td><td>300</td><td></td><td>0 Peak</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>7440.00</td><td>42.66</td><td>-31.34</td><td>74.00</td><td>51.94</td><td>36.89</td><td>14.88</td><td>61.05</td><td>300</td><td></td><td>0 Peak</td><td>HORIZONTAL</td></tr></table></div></div></div> | IME1 | Freq | Level | Limit | Over | Line | ReadAntenna | Cable | Preamp | A/Poss | T/Poss | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | dB | cm | deg | | | 1 | 4962.00 | 49.80 | -24.20 | 74.00 | 63.99 | 35.14 | 11.71 | 61.04 | 300 | | 0 Peak | HORIZONTAL | 2 | 7440.00 | 42.66 | -31.34 | 74.00 | 51.94 | 36.89 | 14.88 | 61.05 | 300 | | 0 Peak | HORIZONTAL | <div><div></div><div><div>No. 1098, Pengzi North Road, Kunshan Economic & Technical Development Zone, Jiangsu China tel: +86-512-57900158 fax: +86-512-57900958 http://www.sporton.com.cn</div><div><div>Site : 030906-K5 Condition : FCC PART 15C 3m 3117 SN 70957 VERTICAL Project : R8W 1000.000kHz VSW: 3000.000kHz SMT: Auto Bode : 0 Plane : E IME1 : Single-directivity</div><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Line</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Poss</th><th>T/Poss</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>4962.00</td><td>46.77</td><td>-27.23</td><td>74.00</td><td>61.29</td><td>34.81</td><td>11.71</td><td>61.04</td><td>300</td><td></td><td>360 Peak</td><td>VERTICAL</td></tr><tr><td>2</td><td>7440.00</td><td>42.80</td><td>-31.20</td><td>74.00</td><td>52.50</td><td>36.47</td><td>14.88</td><td>61.05</td><td>300</td><td></td><td>360 Peak</td><td>VERTICAL</td></tr></table></div></div></div> | IME1 | Freq | Level | Limit | Over | Line | ReadAntenna | Cable | Preamp | A/Poss | T/Poss | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | dB | cm | deg | | | 1 | 4962.00 | 46.77 | -27.23 | 74.00 | 61.29 | 34.81 | 11.71 | 61.04 | 300 | | 360 Peak | VERTICAL | 2 | 7440.00 | 42.80 | -31.20 | 74.00 | 52.50 | 36.47 | 14.88 | 61.05 | 300 | | 360 Peak | VERTICAL |
| IME1 | Freq | Level | Limit | Over | Line | ReadAntenna | Cable | Preamp | A/Poss | T/Poss | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 49.80 | -24.20 | 74.00 | 63.99 | 35.14 | 11.71 | 61.04 | 300 | | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 42.66 | -31.34 | 74.00 | 51.94 | 36.89 | 14.88 | 61.05 | 300 | | 0 Peak | HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Limit | Over | Line | ReadAntenna | Cable | Preamp | A/Poss | T/Poss | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dB | dB | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 4962.00 | 46.77 | -27.23 | 74.00 | 61.29 | 34.81 | 11.71 | 61.04 | 300 | | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 7440.00 | 42.80 | -31.20 | 74.00 | 52.50 | 36.47 | 14.88 | 61.05 | 300 | | 360 Peak | VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



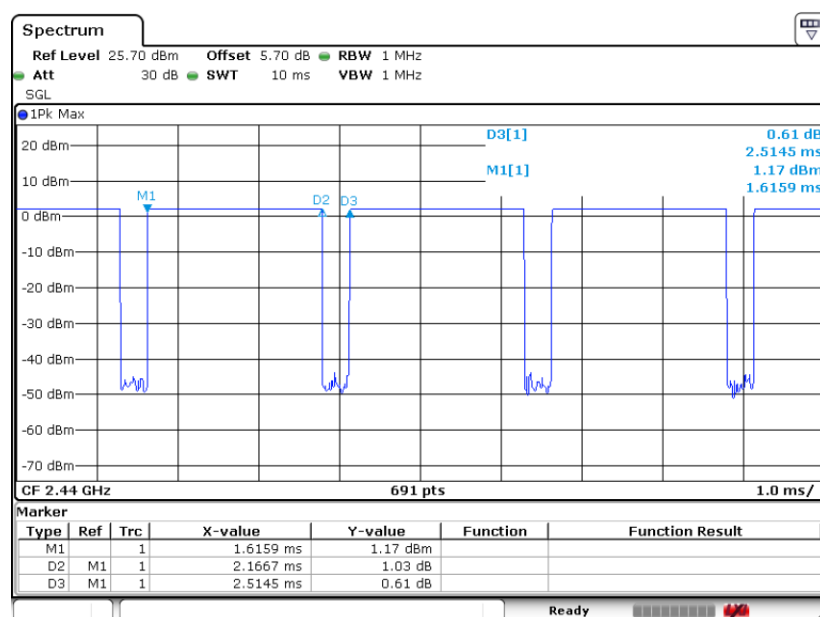
Emission below 1GHz
2.4GHz BLE (LF)

| BLE | 2.4GHz 2400~2483.5MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---|----------|--------|-------------|--------------|-------------|--------------|-------------|--------|--------------------|--------|----------|--|-----|--------|----|--------|----|----|----|-----|--|--|---|-------|-------|--------|-------|-------|-------|------|-------|-----|-----------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|-----------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|-----------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|-----------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|-----------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|--------------------|--|------|------|-------|-------|-------------|--------------|-------------|-------|-------|--------|----------|--|-----|--------|----|--------|----|----|----|-----|--|--|---|-------|-------|--------|-------|-------|-------|------|-------|-----|---------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|---------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|---------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|---------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|---------------|---|--------|-------|--------|-------|-------|-------|------|-------|-----|------------------|
| ANT | BLE LF | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Horizontal | Vertical | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| QP / Peak | <div><p>Site : 032002-K5 Condition : FCC PART 15C 3m CBL6112D SN23182 HORIZONTAL Project : RRM 100.000KHz VSW:300.000KHz SWT:Auto Model : (F8)120207-01 Plane : 0 Mode : Single-directivity IME1 : #4</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>30.00</td><td>20.27</td><td>-19.73</td><td>40.00</td><td>27.79</td><td>34.60</td><td>0.58</td><td>32.70</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>2</td><td>128.94</td><td>18.33</td><td>-20.17</td><td>43.00</td><td>31.22</td><td>18.12</td><td>1.83</td><td>32.84</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>3</td><td>186.17</td><td>16.71</td><td>-20.79</td><td>43.00</td><td>32.40</td><td>10.17</td><td>2.71</td><td>33.02</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>4</td><td>620.49</td><td>25.88</td><td>-20.12</td><td>44.00</td><td>29.48</td><td>34.93</td><td>4.08</td><td>33.01</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>5</td><td>748.77</td><td>27.14</td><td>-18.86</td><td>46.00</td><td>29.71</td><td>25.68</td><td>4.40</td><td>32.10</td><td>---</td><td>Peak HORIZONTAL</td></tr><tr><td>6</td><td>951.50</td><td>29.37</td><td>-16.63</td><td>46.00</td><td>29.71</td><td>26.92</td><td>5.03</td><td>32.29</td><td>150</td><td>36 Peak HORIZONTAL</td></tr></table></div> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 30.00 | 20.27 | -19.73 | 40.00 | 27.79 | 34.60 | 0.58 | 32.70 | --- | Peak HORIZONTAL | 2 | 128.94 | 18.33 | -20.17 | 43.00 | 31.22 | 18.12 | 1.83 | 32.84 | --- | Peak HORIZONTAL | 3 | 186.17 | 16.71 | -20.79 | 43.00 | 32.40 | 10.17 | 2.71 | 33.02 | --- | Peak HORIZONTAL | 4 | 620.49 | 25.88 | -20.12 | 44.00 | 29.48 | 34.93 | 4.08 | 33.01 | --- | Peak HORIZONTAL | 5 | 748.77 | 27.14 | -18.86 | 46.00 | 29.71 | 25.68 | 4.40 | 32.10 | --- | Peak HORIZONTAL | 6 | 951.50 | 29.37 | -16.63 | 46.00 | 29.71 | 26.92 | 5.03 | 32.29 | 150 | 36 Peak HORIZONTAL | <div><p>Site : 032002-K5 Condition : FCC PART 15C 3m CBL6112D SN23182 VERTICAL Project : RRM 100.000KHz VSW:300.000KHz SWT:Auto Model : (F8)120207-01 Plane : 0 Mode : Single-directivity IME1 : #4</p><table><tr><th>IME1</th><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th><th>Pol/Phas</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th><th></th></tr><tr><td>1</td><td>30.00</td><td>22.47</td><td>-17.53</td><td>40.00</td><td>29.99</td><td>34.60</td><td>0.58</td><td>32.70</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>2</td><td>129.91</td><td>15.94</td><td>-27.89</td><td>43.00</td><td>28.31</td><td>18.10</td><td>1.84</td><td>32.84</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>3</td><td>206.98</td><td>18.02</td><td>-27.98</td><td>46.00</td><td>29.31</td><td>19.19</td><td>2.99</td><td>33.07</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>4</td><td>647.89</td><td>35.94</td><td>-20.06</td><td>46.00</td><td>29.41</td><td>35.08</td><td>4.14</td><td>32.69</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>5</td><td>831.22</td><td>29.40</td><td>-16.60</td><td>46.00</td><td>31.32</td><td>26.18</td><td>4.70</td><td>32.56</td><td>---</td><td>Peak VERTICAL</td></tr><tr><td>6</td><td>952.47</td><td>29.67</td><td>-16.33</td><td>46.00</td><td>30.00</td><td>26.93</td><td>5.03</td><td>32.29</td><td>236</td><td>45 Peak VERTICAL</td></tr></table></div> | IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | 1 | 30.00 | 22.47 | -17.53 | 40.00 | 29.99 | 34.60 | 0.58 | 32.70 | --- | Peak VERTICAL | 2 | 129.91 | 15.94 | -27.89 | 43.00 | 28.31 | 18.10 | 1.84 | 32.84 | --- | Peak VERTICAL | 3 | 206.98 | 18.02 | -27.98 | 46.00 | 29.31 | 19.19 | 2.99 | 33.07 | --- | Peak VERTICAL | 4 | 647.89 | 35.94 | -20.06 | 46.00 | 29.41 | 35.08 | 4.14 | 32.69 | --- | Peak VERTICAL | 5 | 831.22 | 29.40 | -16.60 | 46.00 | 31.32 | 26.18 | 4.70 | 32.56 | --- | Peak VERTICAL | 6 | 952.47 | 29.67 | -16.33 | 46.00 | 30.00 | 26.93 | 5.03 | 32.29 | 236 | 45 Peak VERTICAL |
| IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.00 | 20.27 | -19.73 | 40.00 | 27.79 | 34.60 | 0.58 | 32.70 | --- | Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 128.94 | 18.33 | -20.17 | 43.00 | 31.22 | 18.12 | 1.83 | 32.84 | --- | Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 186.17 | 16.71 | -20.79 | 43.00 | 32.40 | 10.17 | 2.71 | 33.02 | --- | Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 620.49 | 25.88 | -20.12 | 44.00 | 29.48 | 34.93 | 4.08 | 33.01 | --- | Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 748.77 | 27.14 | -18.86 | 46.00 | 29.71 | 25.68 | 4.40 | 32.10 | --- | Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 951.50 | 29.37 | -16.63 | 46.00 | 29.71 | 26.92 | 5.03 | 32.29 | 150 | 36 Peak HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IME1 | Freq | Level | Limit | ReadAntenna | Cable Preamp | Loss Factor | A/Pos | T/Pos | Remark | Pol/Phas | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MHz | dBuV/m | dB | dBuV/m | dB | dB | cm | deg | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 30.00 | 22.47 | -17.53 | 40.00 | 29.99 | 34.60 | 0.58 | 32.70 | --- | Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 129.91 | 15.94 | -27.89 | 43.00 | 28.31 | 18.10 | 1.84 | 32.84 | --- | Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 206.98 | 18.02 | -27.98 | 46.00 | 29.31 | 19.19 | 2.99 | 33.07 | --- | Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 647.89 | 35.94 | -20.06 | 46.00 | 29.41 | 35.08 | 4.14 | 32.69 | --- | Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 831.22 | 29.40 | -16.60 | 46.00 | 31.32 | 26.18 | 4.70 | 32.56 | --- | Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | 952.47 | 29.67 | -16.33 | 46.00 | 30.00 | 26.93 | 5.03 | 32.29 | 236 | 45 Peak VERTICAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Appendix D. Duty Cycle Plots

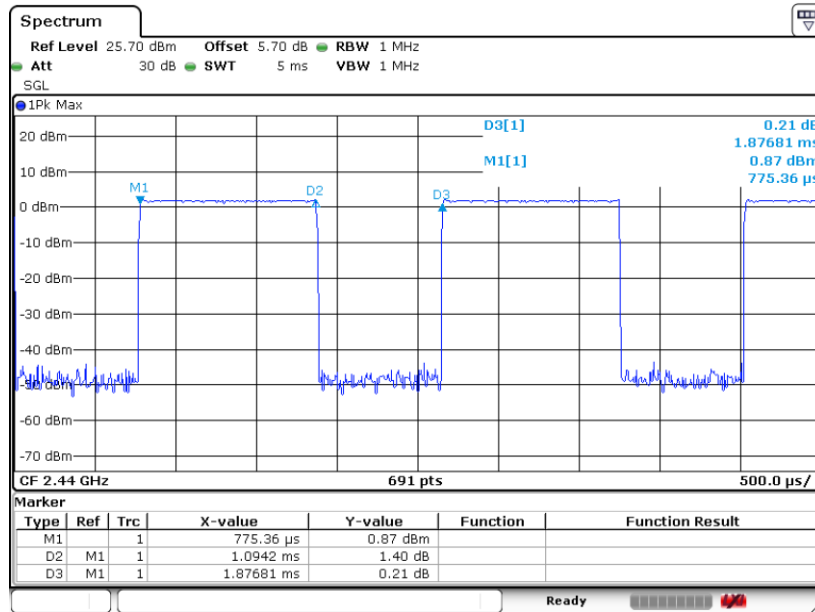
| Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|----------------------|---------------|-------|----------|-------------|
| Bluetooth v4.0 LE-1M | 86.17 | 2.167 | 0.462 | 0.47KHz |
| Bluetooth v5.0 LE-2M | 58.30 | 1.094 | 0.914 | 1KHz |

Bluetooth v4.0 LE-1M



Date: 25.APR.2021 05:13:57

Bluetooth v5.0 LE-2M



Date: 25.APR.2021 05:23:01