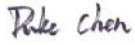


TEST REPORT

| | | |
|--------------------------------------|---|---|
| Report Number..... | 90537-22-72-22-PP002 | |
| Date of issue | 2022-07-07 | |
| Tested by (+signature) | Duke |  |
| Approved by (+signature).... | Jason |  |
| Testing Laboratory name..... | SLG-CPC Testlaboratory Co., Ltd. | |
| Address | No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117 | |
| Applicant's name | Roadget Business PTE. LTD | |
| Address | 7 Temasek Boulevard #12-07 Suntec Tower One Singapore 038987 | |
| Manufacturer's name | Shenzhen shengyun Audio Co.,ltd | |
| Address | Floor 6&4 ,Bluiling 6 , Tongfuyu industrial ,xixiang Baoan District, Shenzhen City, China | |
| Factory's name | Shenzhen shengyun Audio Co.,ltd | |
| Address | Floor 6&4 ,Bluiling 6 , Tongfuyu industrial ,xixiang Baoan District, Shenzhen City, China | |
| Standard(s)..... | FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C | |
| Test item description..... | Bluetooth headphone | |
| Trade Mark..... | JMMO | |
| Model/Type reference..... | H201,H202,H203,H205,H206,H207,H208,H209,H210,H211,H212,H213,H215,H216,H217 | |
| FCC ID..... | 2A692-H205 | |
| Date of receipt of test item .. | 2022-06-08 | |
| Date (s) of performance of test..... | 2022-06-09 to 2022-07-06 | |
| Summary of Test Results..... | Pass | |

The Summary of Test Results based on a technical opinion belongs to the standard(s).

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SLG-CPC Testlaboratory Co., Ltd. The test results in the report only apply to the tested sample.

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Modified Information

| Version | Report No. | Revision Data | Summary |
|---------|----------------------|---------------|------------------|
| Ver 1.0 | 90537-22-72-22-PP002 | 2022-07-07 | Original Version |
| | | | |

1 EUT TECHNICAL DESCRIPTION

| | |
|-----------------------------------|--|
| Product | Bluetooth headphone |
| Model Number | H201,H202,H203,H205,H206,H207,H208,H209,H210,H211,H212,H213,H215,H216,H217 (All are the same except the model name and color; All tests were performed on model H205) |
| Device Type | Bluetooth V5.3 |
| Data Rate : | BLE modulation |
| Modulation: | Bluetooth DTS: GFSK |
| Operating Frequency Range: | 2402-2480MHz |
| Number of Channels: | 40 Channels for Bluetooth DTS; |
| Transmit Power Max: | -1.12 dBm |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | -0.58 dBi |
| Power supply | <input checked="" type="checkbox"/> DC supply: DC 3.7 by battery 300mAh |
| Temperature Range: | -20°C ~ +70°C |

Note: for more details, please refer to the User's manual of the EUT.

2 SUMMARY OF TEST RESULT

| FCC Part Clause | Test Parameter | Verdict | Remark |
|---------------------|---|---------|--------|
| 15.247(a)(2) | DTS (6dB) Bandwidth | PASS | |
| 15.247(b)(3) | Maximum Peak Conducted Output Power | PASS | |
| 15.247(e) | Maximum Power Spectral Density Level | PASS | |
| 15.247(d) | Unwanted Emission Into Non-Restricted Frequency Bands | PASS | |
| 15.247(d) 15.209 | Unwanted Emission Into Restricted Frequency Bands (conducted) | PASS | |
| 15.247(d) 15.209 | Radiated Spurious Emission | PASS | |
| 15.207 | Conducted Emission Test | N/A | |
| 15.247(b) | Antenna Application | N/A | |
| | NOTE1: N/A (Not Applicable) NOTE2: According to FCC KDB 558074 D01 15.247 Meas Guidance v05r02, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits. | | |

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for FCC ID: 2A692-H205 filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3 TEST METHODOLOGY

3.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

3.2 MEASUREMENT EQUIPMENT USED

| Equipment | Model | Manufacturer | S/N | Last Cal. | Due Cal. |
|-------------------------------------|-----------------|--------------|------------------|------------|----------|
| RF Connected Test | | | | | |
| Vector Signal Generator | Rohde & Schwarz | SMBV100B(6G) | 101166 | 2021/07/30 | 1 year |
| Analog Signal Generator | Rohde & Schwarz | SMB100A(40G) | 181333 | 2021/07/30 | 1 year |
| Signal Analyzer | Rohde & Schwarz | FSV40 | 101527 | 2022/04/19 | 1 year |
| Power Analyzer | Rohde & Schwarz | OSP-B157W8 | N/A | 2021/09/23 | 1 year |
| Wideband Radio Communication Tester | R&S | CMW270 | 101985 | 2021/07/30 | 1 year |
| Temperature&Humidity test chamber | ESPEC | VC 4018 | / | 2022/03/23 | 1 year |
| Wideband Radio Communication Tester | Rohde & Schwarz | CMW500 | 166898 | 2021/09/07 | 1 year |
| Radiated Emission Test | | | | | |
| EMI Test Receiver | KEYSIGHT | N9010A | MY56070465 | 2021/12/10 | 1 year |
| EMI Test Receiver | Rohde & Schwarz | FSV40 | 101511 | 2022/04/19 | 1 year |
| Bilog Antenna | Schwarzbeck | VULB 9163 | 01335 | 2020/04/28 | 3 year |
| Power Amplifier | EMEC | EM330 | 060676 | 2021/12/10 | 3 year |
| Cable | Tuyue | F4309 | L-400-NmNm-12000 | 2021/12/10 | 1 year |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1779 | 2022/04/21 | 3 year |
| Horn Antenna | Schwarzbeck | BBHA9170 | 00954 | 2019/10/09 | 3 year |
| Power Amplifier | Rohde & Schwarz | SCU-18F | 180118 | 2022/04/21 | 3 year |
| Active Loop Antenna | ETS LINDGREN | 6512 | 41623 | 2022/04/23 | 3 year |
| Test Software | Farad | EZ-EMC | Ver.CPC-3A1 | / | / |
| Conducted Emission Test | | | | | |
| LISN | Schwarzbeck | NSLK 8127 | 8127-892 | 2022/03/19 | 1 year |
| LISN | Schwarzbeck | NSLK 8127 | 8127-437 | 2021/08/11 | 1 year |
| EMI Test Receiver | R&S | ESR3 | 102124 | 2021/12/10 | 1 year |
| Pulse Limiter | R&S | ESH3-Z2 | 357.8810.52 | 2021/12/10 | 1 year |
| Test Software | Farad | EZ-EMC | Ver.CPC-3A1 | / | / |

3.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (Bluetooth V5.3 DTS :1Mbps, 2Mbps) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for Bluetooth V5.3 DTS:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 0 | 2402 | 19 | 2440 | ... | ... |
| 1 | 2404 | 20 | 2442 | 37 | 2476 |
| 2 | 2406 | 21 | 2444 | 38 | 2478 |
| ... | ... | ... | ... | 39 | 2480 |

Note: $fc=2402MHz+k\times1MHz$ k=1 to 39

Test Frequency and channel for Bluetooth V5.3 DTS:

| Lowest Frequency | | Middle Frequency | | Highest Frequency | |
|------------------|-----------------|------------------|-----------------|-------------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 0 | 2402 | 19 | 2440 | 39 | 2480 |

4 FACILITIES AND ACCREDITATIONS

4.1 FACILITIES

All measurement facilities used to collect the measurement data are located at No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.10 and CISPR Publication 32.

4.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. :

Accredited by ISED, October 04 2021

CAB identifier: CN0126

Company Number: 27767

Accredited by A2LA, October 04 2021

The Certificate Registration Number is 6325.01

Name of Firm

: SLG-CPC Testlaboratory Co., Ltd.

Site Location

: No. 11, Wu Song Road, Dongcheng District, Dongguan, Guangdong Province, China 523117

5 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

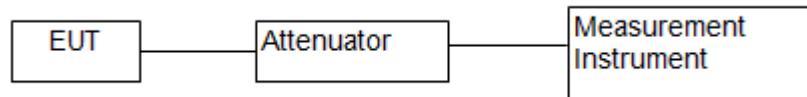
| Parameter | Uncertainty |
|--------------------------------|------------------------|
| Radio Frequency | $\pm 1 \times 10^{-5}$ |
| Maximum Peak Output Power Test | $\pm 1.0\%$ |
| Conducted Emissions Test | $\pm 3.08\text{dB}$ |
| Radiated Emission Test | $\pm 4.60\text{dB}$ |
| Power Density | $\pm 0.9\%$ |
| Occupied Bandwidth Test | $\pm 2.3\%$ |
| Band Edge Test | $\pm 1.2\%$ |
| Antenna Port Emission | $\pm 3\text{dB}$ |
| Temperature | $\pm 3.2\%$ |
| Humidity | $\pm 2.5\%$ |

Measurement Uncertainty for a level of Confidence of 95%

6 SETUP OF EQUIPMENT UNDER TEST

6.1 RADIO FREQUENCY TEST SETUP 1

The Bluetooth V5.3 DTS component's antenna port(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



6.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

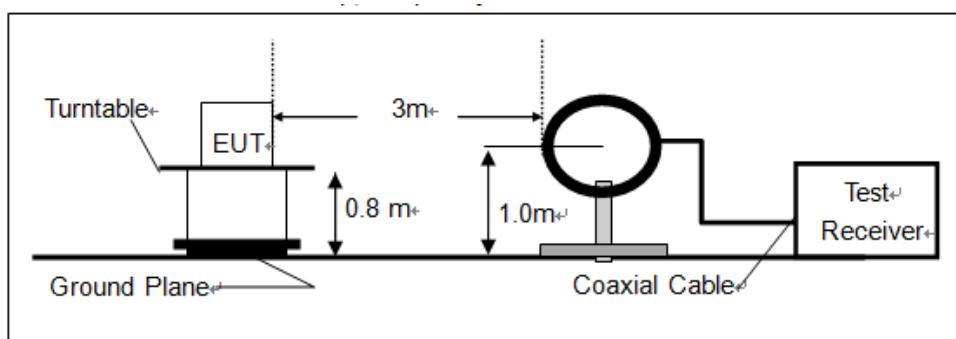
30MHz-1GHz:

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

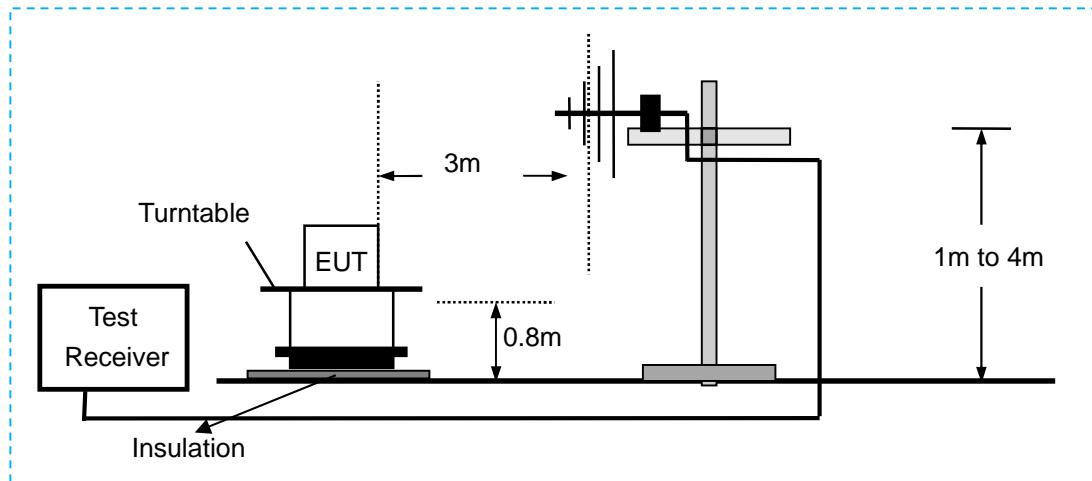
Above 1GHz:

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

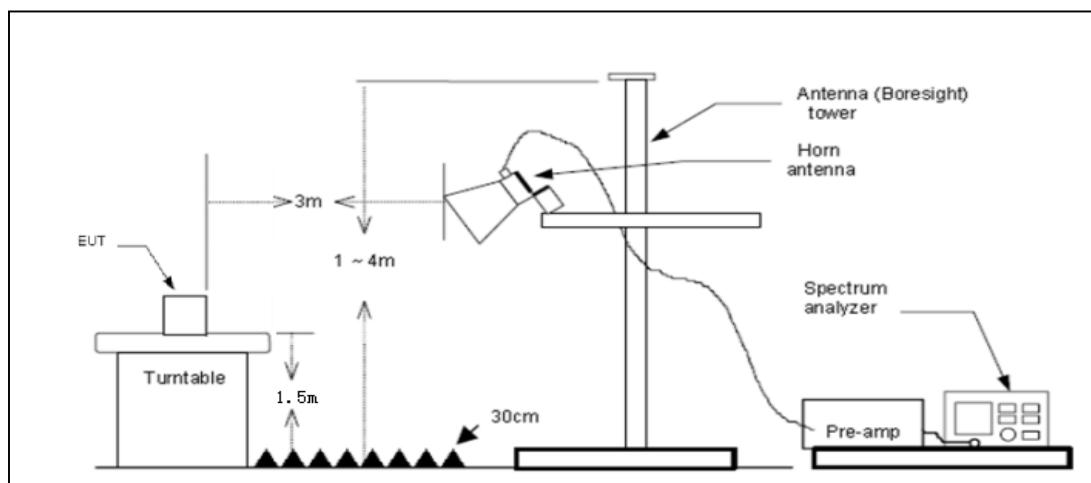
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

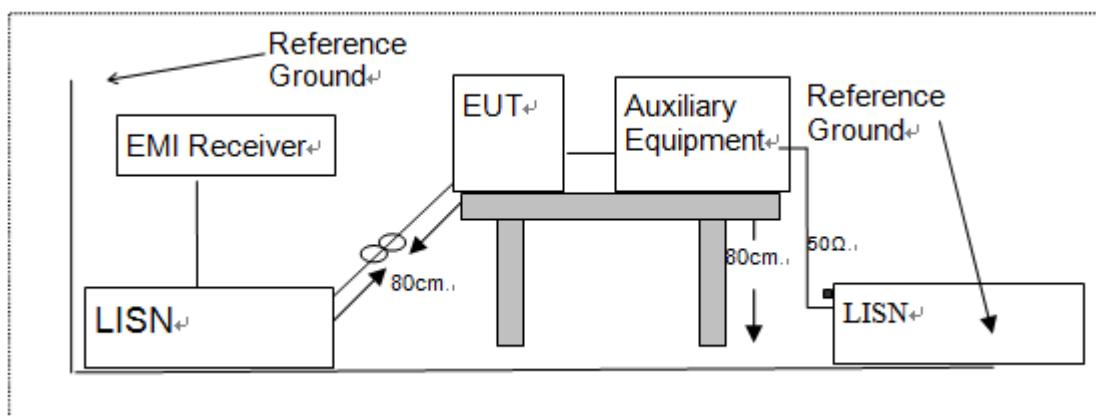


6.3 CONDUCTED EMISSION TEST SETUP

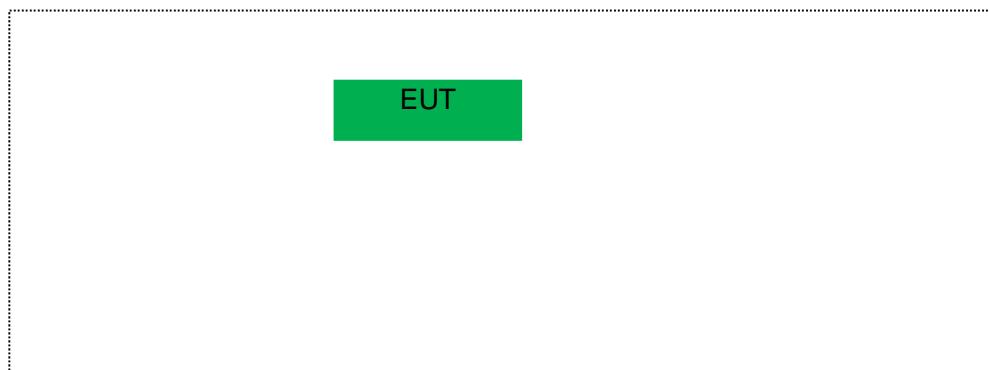
The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



6.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



6.5 SUPPORT EQUIPMENT

| EUT Cable List and Details | | | |
|----------------------------|------------|---------------------|------------------------|
| Cable Description | Length (m) | Shielded/Unshielded | With / Without Ferrite |
| DC cable | 1.0 | Unshielded | Without Ferrite |

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

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

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

7 TEST REQUIREMENTS

7.1 DTS 6DB BANDWIDTH

7.1.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.1.2 Conformance Limit

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

7.1.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.1.4 Test Procedure

The EUT was operating in Bluetooth V5.3 DTS mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

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.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 100 kHz.

Set the video bandwidth (VBW) =300 kHz.

Set Span=2 times OBW

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

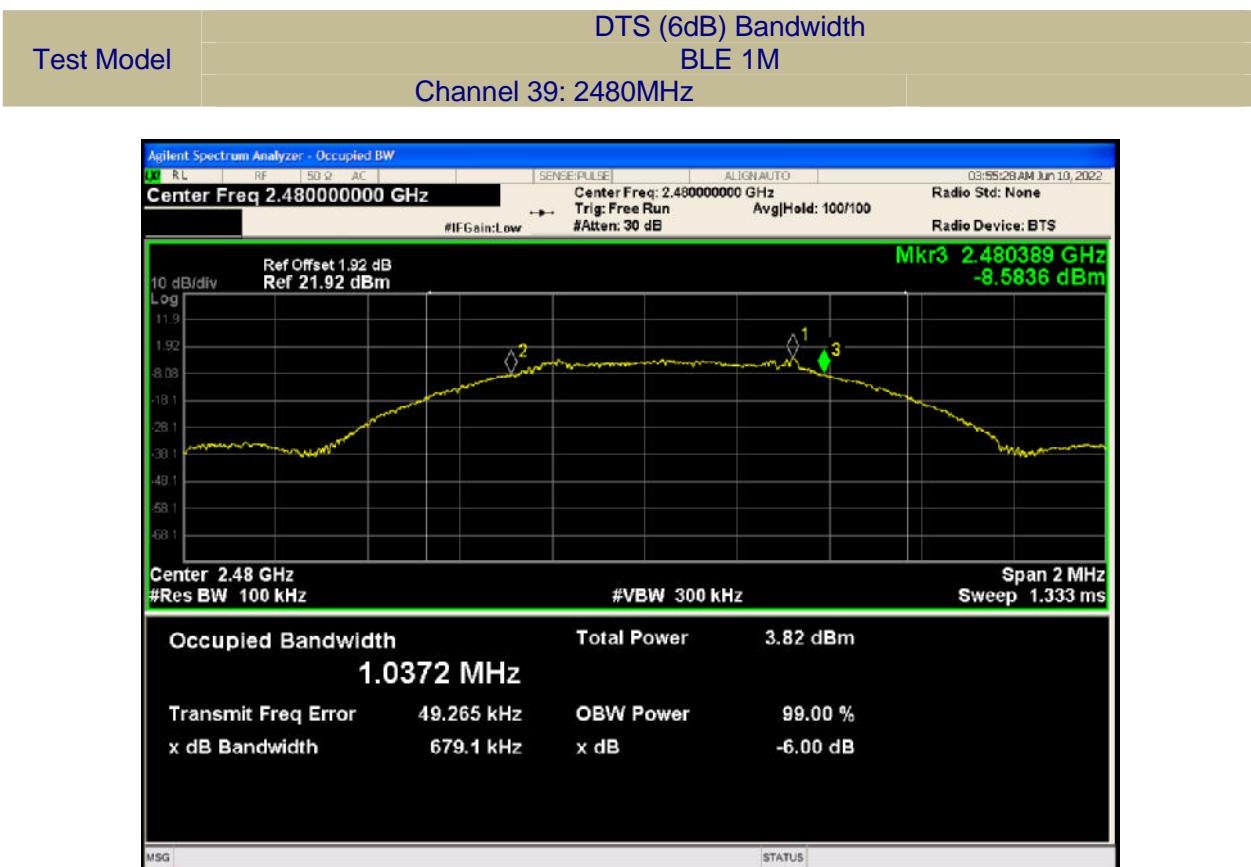
Measure and record the results in the test report.

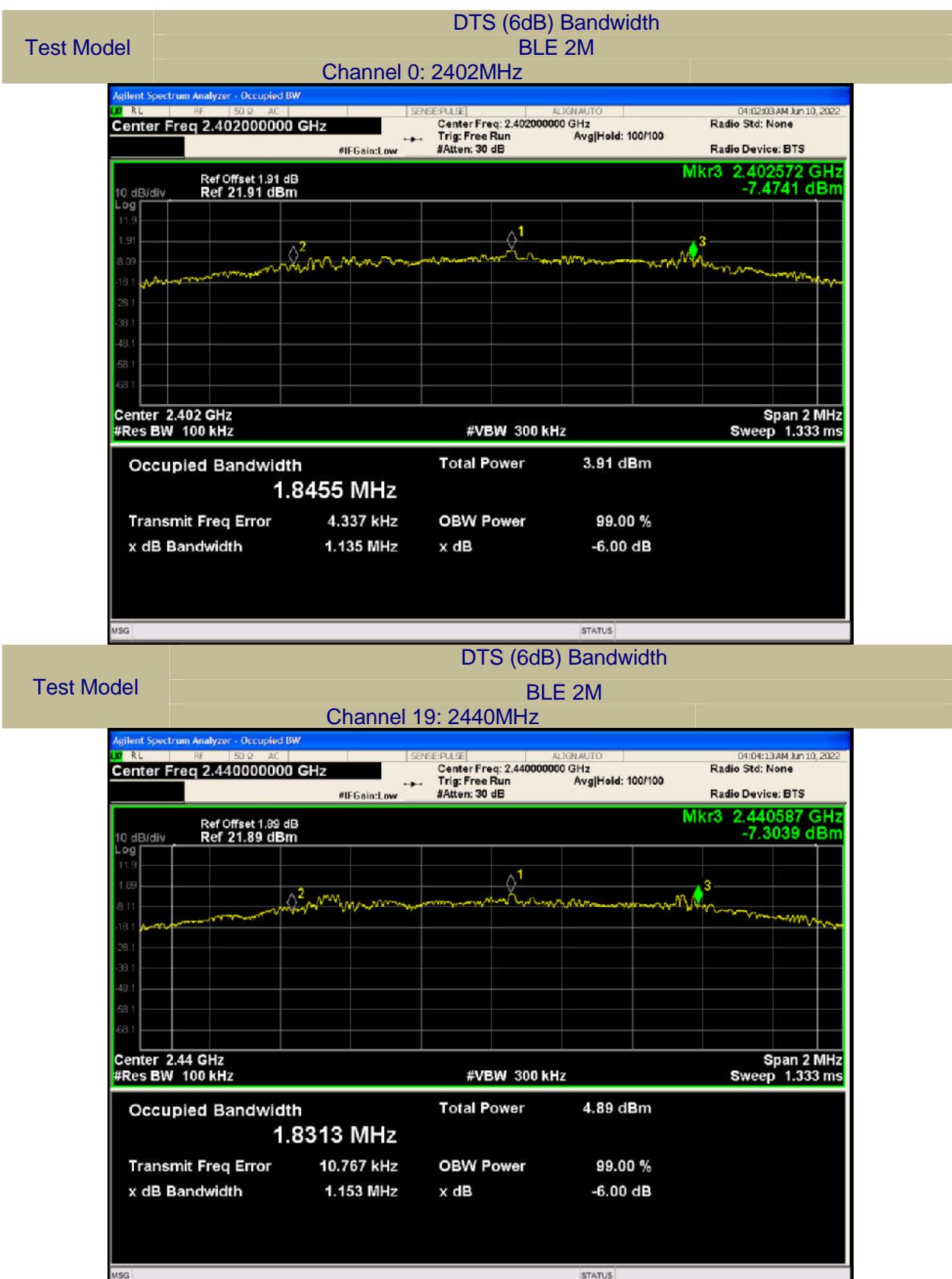
Test Results

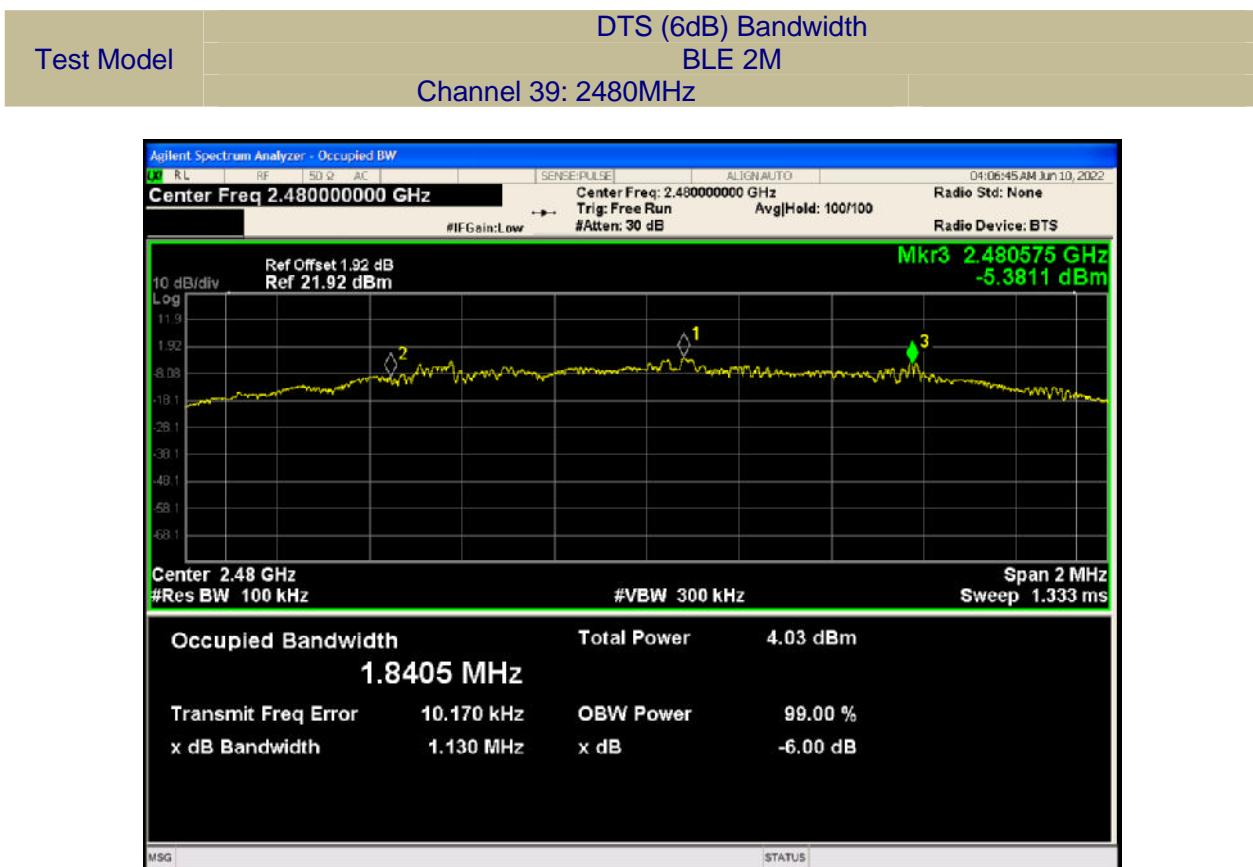
| | |
|--------------------|-----------|
| Temperature: | 26° C |
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

| Operation Mode | Channel Number | Channel Frequency (MHz) | Measurement Bandwidth (kHz) | Limit (kHz) | Verdict |
|----------------|----------------|-------------------------|-----------------------------|-------------|---------|
| BLE 1M | 0 | 2402 | 668 | >500 | PASS |
| | 19 | 2440 | 656 | >500 | PASS |
| | 39 | 2480 | 679 | >500 | PASS |
| BLE 2M | 0 | 2402 | 1135 | >500 | PASS |
| | 19 | 2440 | 1153 | >500 | PASS |
| | 39 | 2480 | 1130 | >500 | PASS |









7.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

7.2.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.2.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm).

7.2.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.2.4 Test Procedure

■ According to FCC Part15.247(b)(3)

As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. For smart system, Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Set the RBW \geq DTS bandwidth.

Set VBW = 3^*RBW

Set the span $\geq 3^*RBW$

Set Sweep time = auto couple.

Set Detector = peak.

Set Trace mode = max hold.

Allow trace to fully stabilize. Use peak marker function to determine the peak amplitude level.

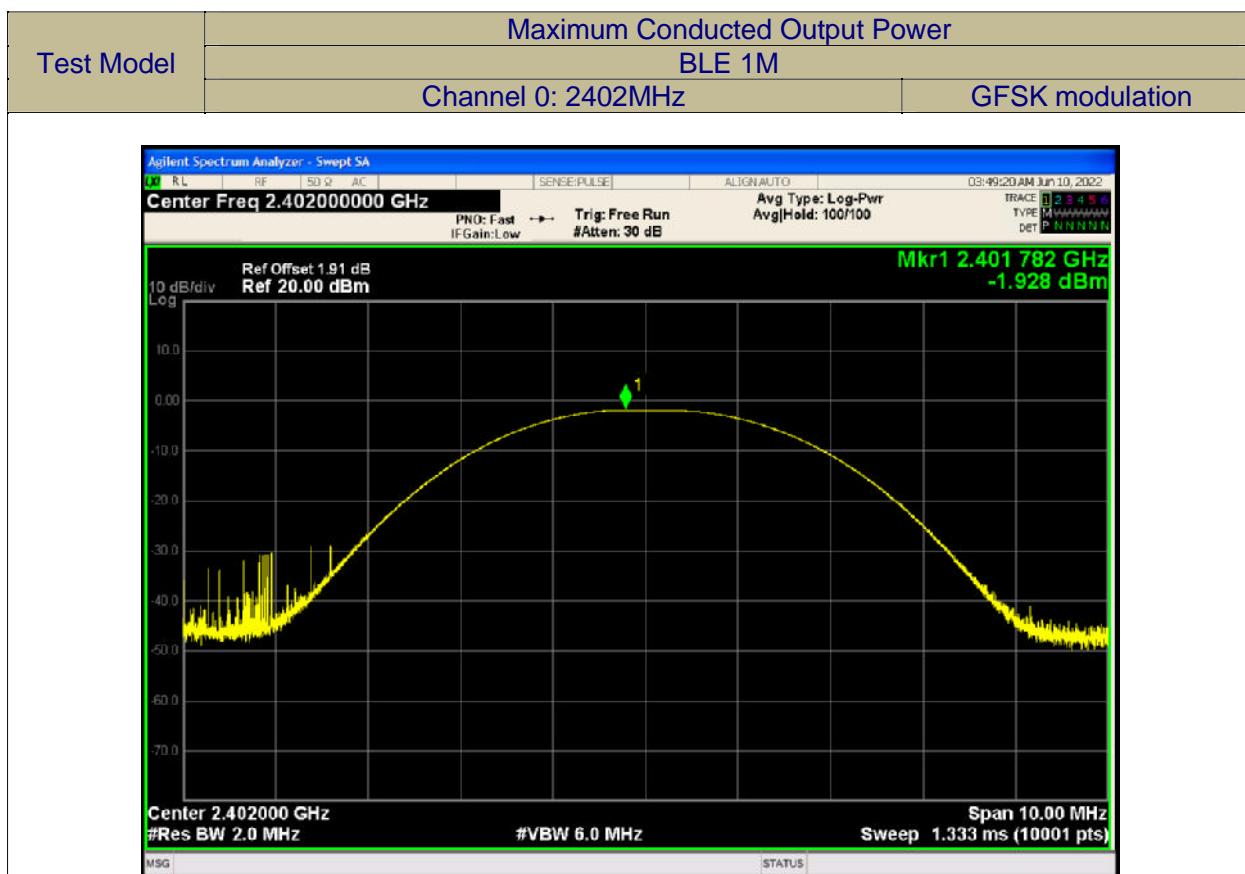
■ According to FCC Part 15.247(b)(4):

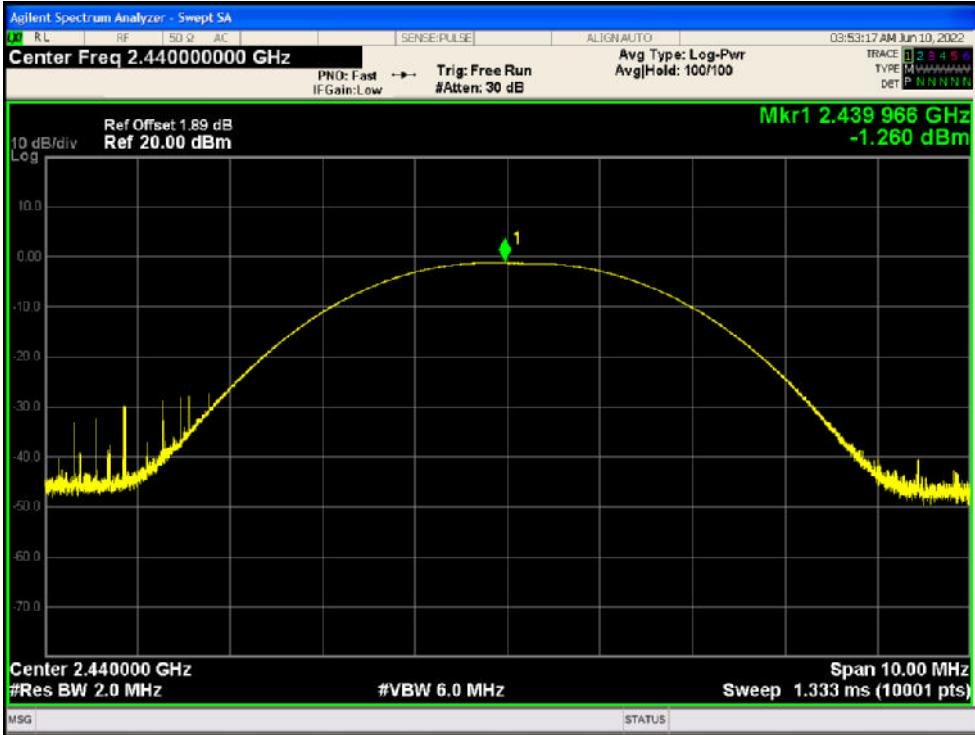
Conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

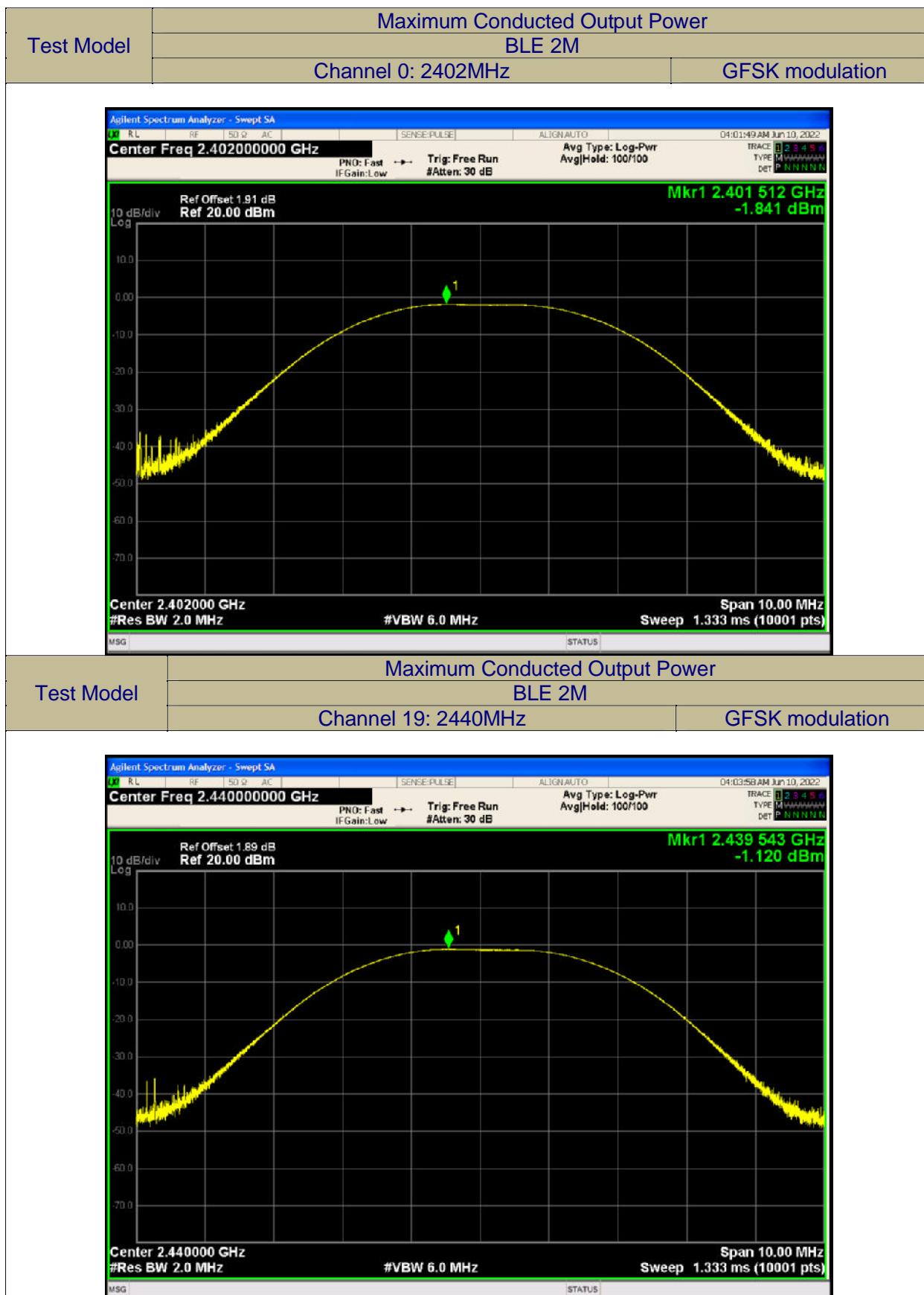
Test Results

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

| Operation Mode | Channel Number | Channel Frequency (MHz) | Measurement Level (dBm) | Limit (dBm) | Verdict |
|----------------|----------------|-------------------------|-------------------------|-------------|---------|
| BLE 1M | 0 | 2402 | -1.93 | 30 | PASS |
| | 19 | 2440 | -1.26 | 30 | PASS |
| | 39 | 2480 | -2.09 | 30 | PASS |
| BLE 2M | 0 | 2402 | -1.84 | 30 | PASS |
| | 19 | 2440 | -1.12 | 30 | PASS |
| | 39 | 2480 | -1.95 | 30 | PASS |



| Test Model | Maximum Conducted Output Power | | | |
|--|--------------------------------|--|-----------------|--|
| | BLE 1M | | GFSK modulation | |
| | Channel 19: 2440MHz | | | |
|  | | | | |
| Test Model | Maximum Conducted Output Power | | | |
| | BLE 1M | | GFSK modulation | |
| | Channel 39: 2480MHz | | | |
|  | | | | |



Test Model

Maximum Conducted Output Power
BLE 2M
Channel 39: 2480MHz
GFSK modulation

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.480000000 GHz

Ref Offset 1.92 dB
Ref 20.00 dBm

10 dB/div Log

Mkr1 2.479 532 GHz
-1.954 dBm

1

Center 2.480000 GHz
#Res BW 2.0 MHz
#VBW 6.0 MHz
Span 10.00 MHz
Sweep 1.333 ms (10001 pts)

7.3 MAXIMUM POWER SPECTRAL DENSITY

7.3.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.3.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.3.4 Test Procedure

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance

The transmitter output (antenna port) was connected to the spectrum analyzer

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

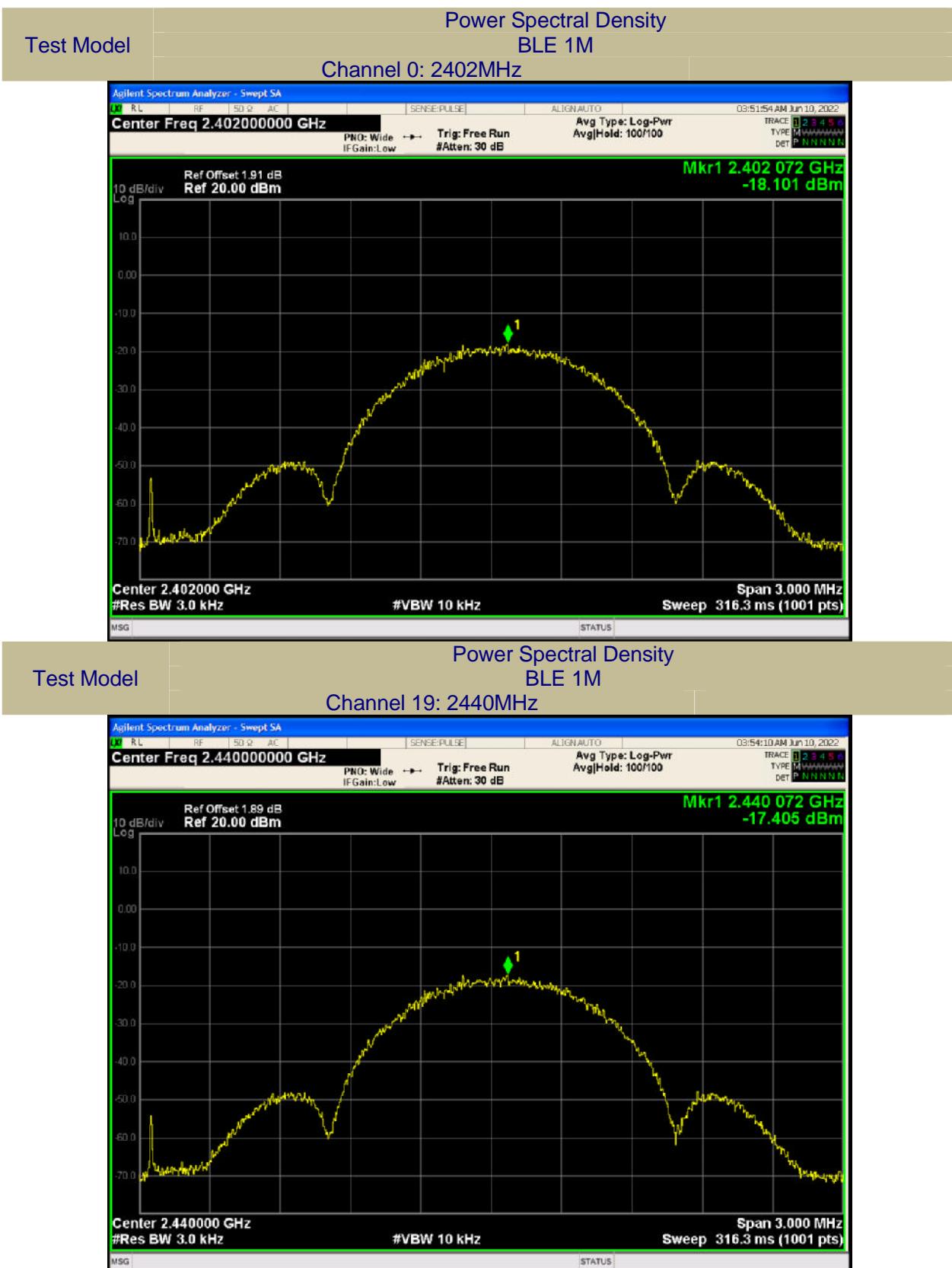
Use the peak marker function to determine the maximum amplitude level within the RBW.

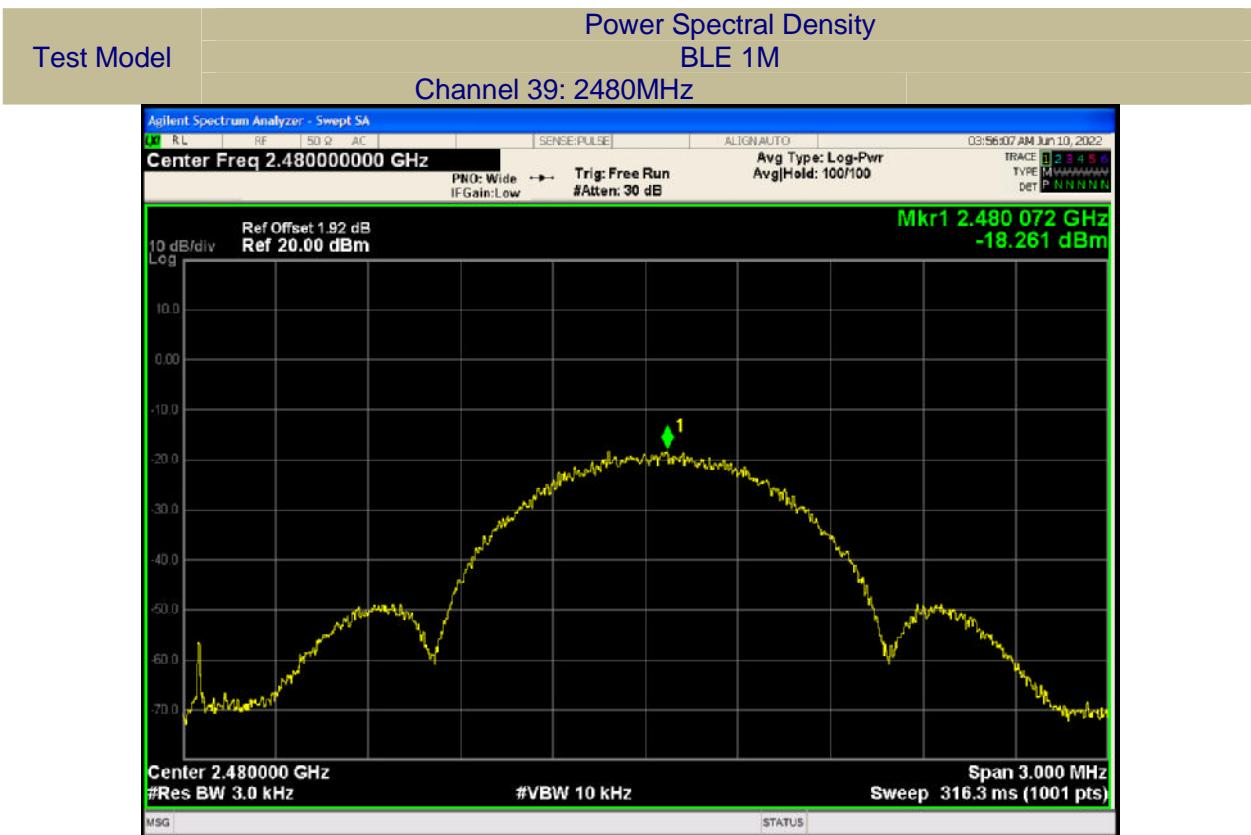
7.3.5 Test Results

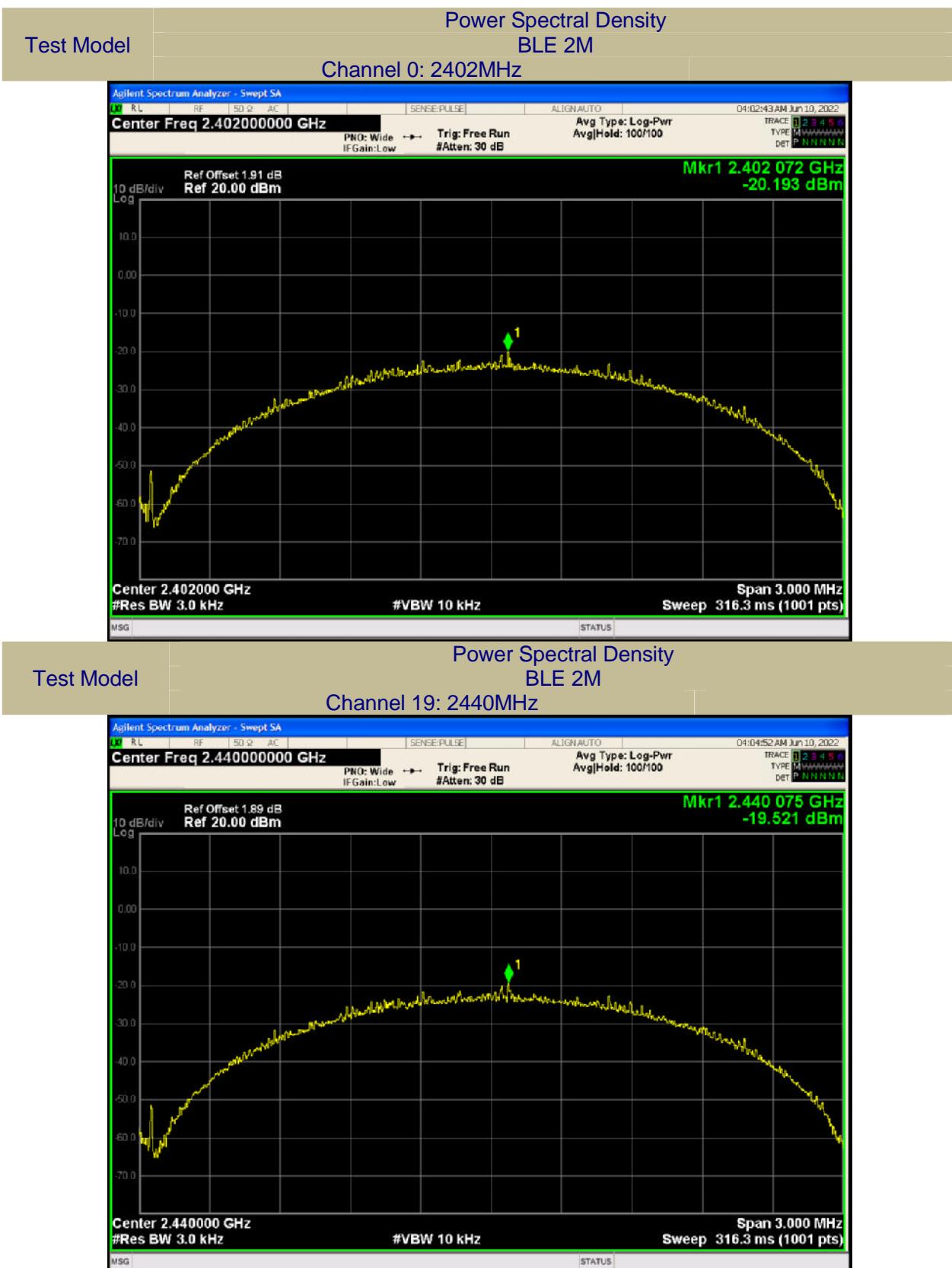
| | |
|--------------------|-----------|
| Temperature: | 26° C |
| Relative Humidity: | 54% |
| ATM Pressure: | 1011 mbar |

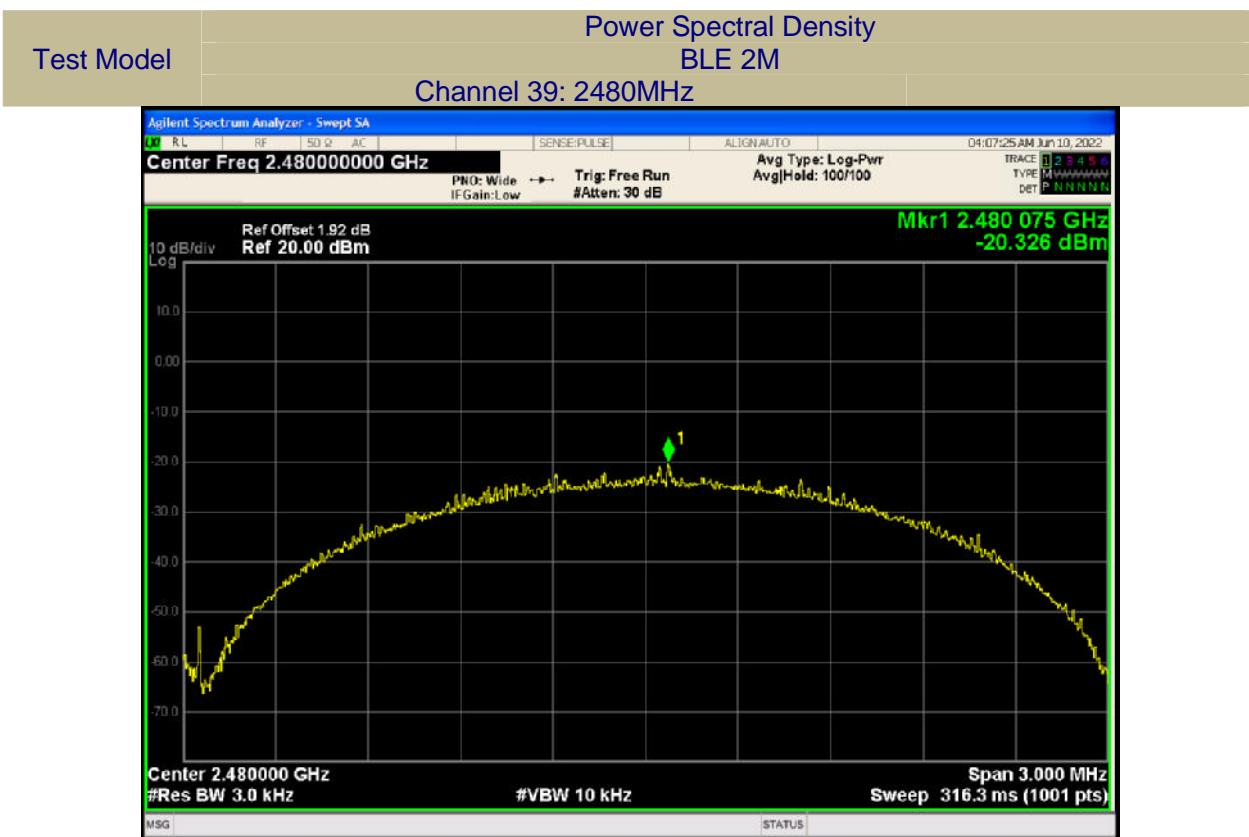
| Operation Mode | Channel Number | Channel Frequency (MHz) | Measurement Level (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|----------------|----------------|-------------------------|------------------------------|------------------|---------|
| BLE 1M | 0 | 2402 | -18.10 | <8 | PASS |
| | 19 | 2440 | -17.41 | <8 | PASS |
| | 39 | 2480 | -18.26 | <8 | PASS |
| BLE 2M | 0 | 2402 | -20.19 | <8 | PASS |
| | 19 | 2440 | -19.52 | <8 | PASS |
| | 39 | 2480 | -20.33 | <8 | PASS |

Note: N/A









7.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

7.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

7.4.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

7.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to = 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW \geq 3 x RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

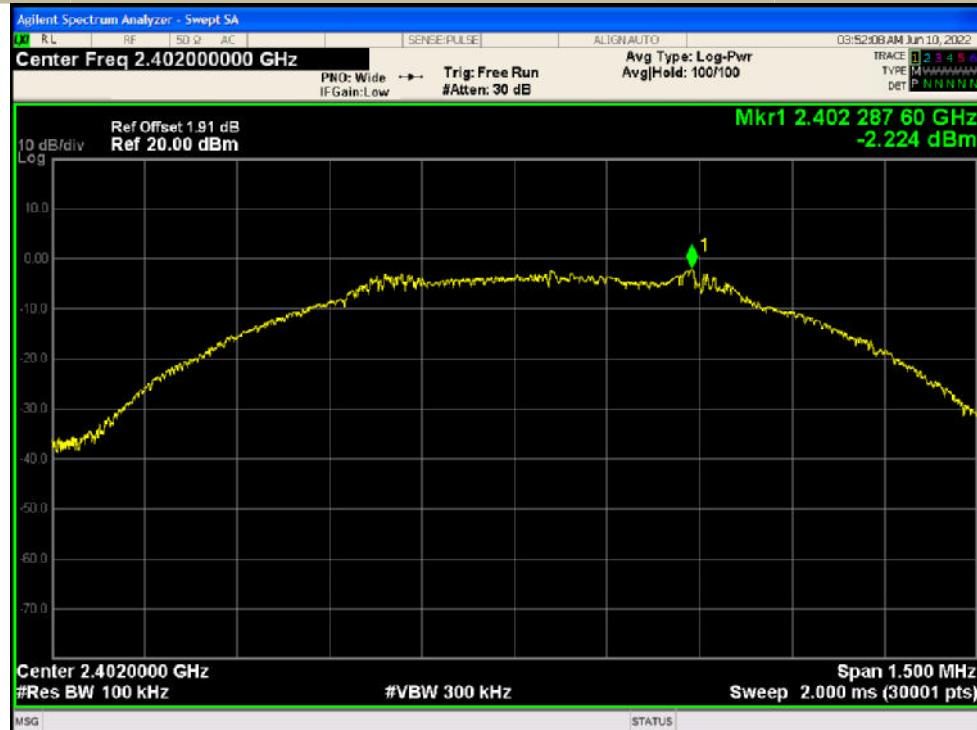
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements .

Report the three highest emissions relative to the limit.

7.4.5 Test Results

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

Test Model

 PSD(Power Spectral Density) RBW=100kHz
 BLE 1M
 Channel 0: 2402MHz


Test Model

 Unwanted Emissions in non-restricted frequency bands
 BLE 1M
 Channel 0: 2402MHz
