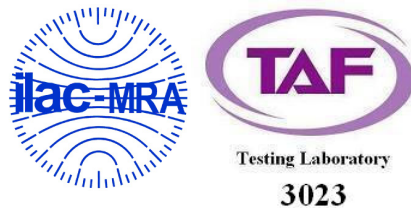


FCC Test Report

| | |
|--------------|--------------|
| Product Name | Gaming Mouse |
| Model No. | P711 |
| FCC ID. | EMJMSP711 |

| | |
|-----------|---|
| Applicant | Primax Electronics Ltd |
| Address | 669 Ruey Kuang Road Neihu 114, Taipei, Taiwan |

| | |
|-----------------|-----------------------|
| Date of Receipt | Jul. 03, 2022 |
| Issued Date | Jul. 22, 2022 |
| Report No. | 2270056R-RFUSBLEV01-A |
| Report Version | V1.0 |



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test Report

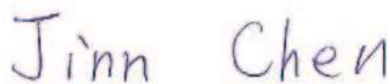
Issued Date: Jul. 22, 2022

Report No.: 2270056R-RFUSBLEV01-A



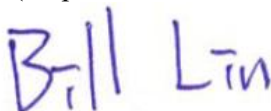
| | |
|---------------------|---|
| Product Name | Gaming Mouse |
| Applicant | Primax Electronics Ltd |
| Address | 669 Ruey Kuang Road Neihu 114, Taipei, Taiwan |
| Manufacturer | Primax Electronics Ltd |
| Model No. | P711 |
| FCC ID. | EMJMSP711 |
| EUT Rated Voltage | DC 3.7V (Power by Battery) or DC 5C (Power by USB) |
| EUT Test Voltage | DC 5V (Power by USB) |
| Trade Name | ASUS |
| Applicable Standard | FCC CFR Title 47 Part 15 Subpart C ANSI C63.4: 2014, ANSI C63.10: 2013 |
| Test Result | Complied |

Documented By :



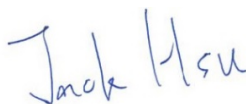
(Supervisor / Jinn Chen)

Tested By :



(Senior Engineer / Bill Lin)

Approved By :



(Senior Engineer / Jack Hsu)

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Appendix 1: EUT Test Photographs

Appendix 2: Product Photos-Please refer to the file: 2270056R-Product Photos

Revision History

| Report No. | Version | Description | Issued Date |
|-----------------------|---------|--------------------------|---------------|
| 2270056R-RFUSBLEV01-A | V1.0 | Initial issue of report. | Jul. 22, 2022 |

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|---|---|
| Product Name | Gaming Mouse |
| Trade Name | ASUS |
| Model No. | P711 |
| FCC ID. | EMJMSP711 |
| Frequency Range | 2402-2480MHz |
| Channel Number | 40CH |
| Type of Modulation | GFSK(1Mbps) |
| Antenna Type | PIFA Antenna |
| Channel Control | Auto |
| Antenna Gain | Refer to the table "Antenna List" |
| Type C to USB plug adapter (black/white) | MFR: ASUS, M/N: P711 |
| Type C to USB Cable (black/white) | MFR: ASUS, M/N:P711, Non-shielded, 2.1m |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|---|--------------|--------------|--------------------|
| 1 | ZHUHAI JINZHAOFENG CIRCUIT BOARD CO.,LTD | 651000049190 | PIFA Antenna | 1.93dBi for 2.4GHz |

Note: The antenna of EUT is conforming to FCC 15.203.

Center Frequency of Each Channel: (Bluetooth V5.2)

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| Channel 00: | 2402 MHz | Channel 01: | 2404 MHz | Channel 02: | 2406 MHz | Channel 03: | 2408 MHz |
| Channel 04: | 2410 MHz | Channel 05: | 2412 MHz | Channel 06: | 2414 MHz | Channel 07: | 2416 MHz |
| Channel 08: | 2418 MHz | Channel 09: | 2420 MHz | Channel 10: | 2422 MHz | Channel 11: | 2424 MHz |
| Channel 12: | 2426 MHz | Channel 13: | 2428 MHz | Channel 14: | 2430 MHz | Channel 15: | 2432 MHz |
| Channel 16: | 2434 MHz | Channel 17: | 2436 MHz | Channel 18: | 2438 MHz | Channel 19: | 2440 MHz |
| Channel 20: | 2442 MHz | Channel 21: | 2444 MHz | Channel 22: | 2446 MHz | Channel 23: | 2448 MHz |
| Channel 24: | 2450 MHz | Channel 25: | 2452 MHz | Channel 26: | 2454 MHz | Channel 27: | 2456 MHz |
| Channel 28: | 2458 MHz | Channel 29: | 2460 MHz | Channel 30: | 2462 MHz | Channel 31: | 2464 MHz |
| Channel 32: | 2466 MHz | Channel 33: | 2468 MHz | Channel 34: | 2470 MHz | Channel 35: | 2472 MHz |
| Channel 36: | 2474 MHz | Channel 37: | 2476 MHz | Channel 38: | 2478 MHz | Channel 39: | 2480 MHz |

Note:

1. The EUT is a Gaming Mouse with built-in Bluetooth V5.2 and 2.4G wireless transceiver, this report for Bluetooth V5.2.
2. BLE is only 1Mbps.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.
5. These tests were conducted on a sample for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.247 for spread spectrum devices.

| | |
|-----------|------------------------|
| Test Mode | Mode 1: Transmit - BLE |
|-----------|------------------------|

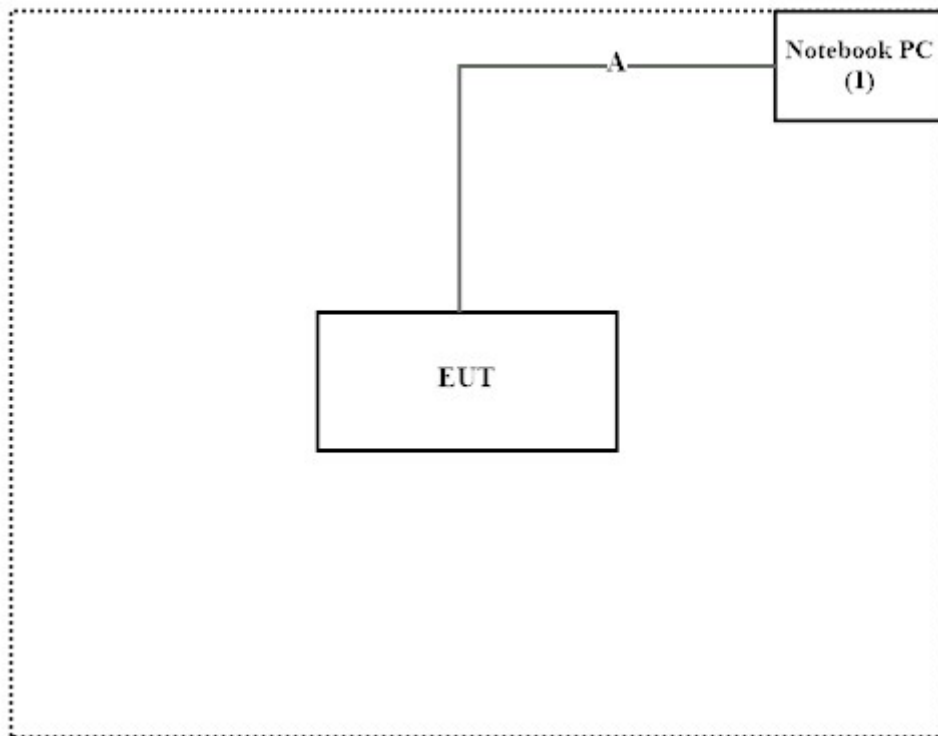
1.2. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | Manufacturer | Model No. | Serial No. | Power Cord |
|-----------------|--------------|---------------|------------|------------|
| 1 Notebook PC | DELL | Latitude 5491 | 1PL56S2 | N/A |

| Signal Cable Type | Signal cable Description |
|-------------------------|--------------------------|
| A Type C to USB Cable | Non-shielded, 2.1m |

1.3. Configuration of Tested System



1.4. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.3.
- (2) Execute software “nRF_DTM v2.4.0” on the Notebook PC.
- (3) Configure the test mode, the test channel, and the data rate.
- (4) Press “OK” to start the continuous Transmit.
- (5) Verify that the EUT works properly.

1.5. Test Facility

Ambient conditions in the laboratory:

| Performed Item | Items | Required | Actual |
|--------------------|------------------|----------|---------|
| Conducted Emission | Temperature (°C) | 10~40 °C | 26.5 °C |
| | Humidity (%RH) | 10~90 % | 48.2 % |
| Radiated Emission | Temperature (°C) | 10~40 °C | 24.6 °C |
| | Humidity (%RH) | 10~90 % | 52.3 % |
| Conductive | Temperature (°C) | 10~40 °C | 22 °C |
| | Humidity (%RH) | 10~90 % | 55 % |

USA : **FCC Registration Number: TW0033**

Canada : **CAB Identifier Number: TW3023 / Company Number: 26930**

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City, 24451, Taiwan
Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C.
Phone number : +886-3-275-7255
Fax number : +866-3-327-8031
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.6. List of Test Equipment

For Conduction measurements / HY-SR01

| | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due. Date |
|---|--------------------|--------------|-----------|------------|------------|------------|
| X | EMI Test Receiver | R&S | ESR7 | 101602 | 2022.03.16 | 2023.03.15 |
| X | Two-Line V-Network | R&S | ENV216 | 101306 | 2022.05.23 | 2023.05.22 |
| | Two-Line V-Network | R&S | ENV216 | 10147 | 2021.08.13 | 2022.08.12 |
| X | Coaxial Cable | SUHNER | RG400 BNC | RF001 | 2022.05.24 | 2023.05.23 |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : E3 210616 dekra V9.

For Conducted measurements / HY-SR02

| | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due. Date |
|---|---------------------|--------------|-----------|------------|------------|------------|
| X | Spectrum Analyzer | R&S | FSV30 | 103466 | 2021.12.27 | 2022.12.26 |
| X | Peak Power Analyzer | KEYSIGHT | 8900B | MY51000539 | 2022.05.27 | 2023.05.26 |
| X | Power Sensor | KEYSIGHT | N1923A | MY59240002 | 2022.05.19 | 2023.05.18 |
| X | Power Sensor | KEYSIGHT | N1923A | MY59240003 | 2022.05.19 | 2023.05.18 |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : RF Conducted Test Tools R3 V3.0.1.19.

For Radiated measurements /HY-CB03

| | Equipment | Manufacturer | Model No. | Serial No. | Cal. Date | Due. Date |
|---|-------------------|---------------|-------------------|--------------|------------|------------|
| X | Loop Antenna | AMETEK | HLA6121 | 56736 | 2022.05.14 | 2023.05.13 |
| X | Bi-Log Antenna | SCHWARZBECK | VULB9168 | 9168-675 | 2021.08.10 | 2022.08.09 |
| X | Horn Antenna | ETS-Lindgren | 3117 | 00227700 | 2021.11.09 | 2022.11.08 |
| X | Horn Antenna | Com-Power | AH-840 | 101100 | 2021.10.04 | 2022.10.03 |
| X | Pre-Amplifier | SGH | SGH0301-9 | 20211007-10 | 2022.02.22 | 2023.02.21 |
| X | Pre-Amplifier | EMCI | EMC051835SE | 980313 | 2021.11.24 | 2022.11.23 |
| X | Pre-Amplifier | EMCI | EMC05820SE | 980309 | 2021.09.27 | 2022.09.26 |
| X | Pre-Amplifier | EMCI | EMC184045SE | 980369 | 2022.05.12 | 2023.05.11 |
| | Coaxial Cable | EMCI | EMC102-KM-KM-600 | 1160314 | | |
| | Coaxial Cable | EMCI | EMC102-KM-KM-7000 | 170242 | | |
| X | Filter | MICRO TRONICS | BRM50702 | G251 | 2021.09.16 | 2022.09.15 |
| | Filter | MICRO TRONICS | BRM50716 | G188 | 2021.09.16 | 2022.09.15 |
| X | EMI Test Receiver | R&S | ESR | 102793 | 2021.12.15 | 2022.12.14 |
| X | Spectrum Analyzer | R&S | FSV3044 | 101113 | 2022.01.25 | 2023.02.24 |
| X | Coaxial Cable | SGH | SGH18 | 2021005-3 | 2022.03.18 | 2023.03.17 |
| | Coaxial Cable | SGH | SGH18 | 202108-4 | | |
| | Coaxial Cable | SGH | SGH18 | 20110223-1 | | |
| | Coaxial Cable | SGH | HA800 | GD20110222-3 | | |

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked with "X" are used to measure the final test results.
3. Test Software version : E3 210616 dekra V9.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document.

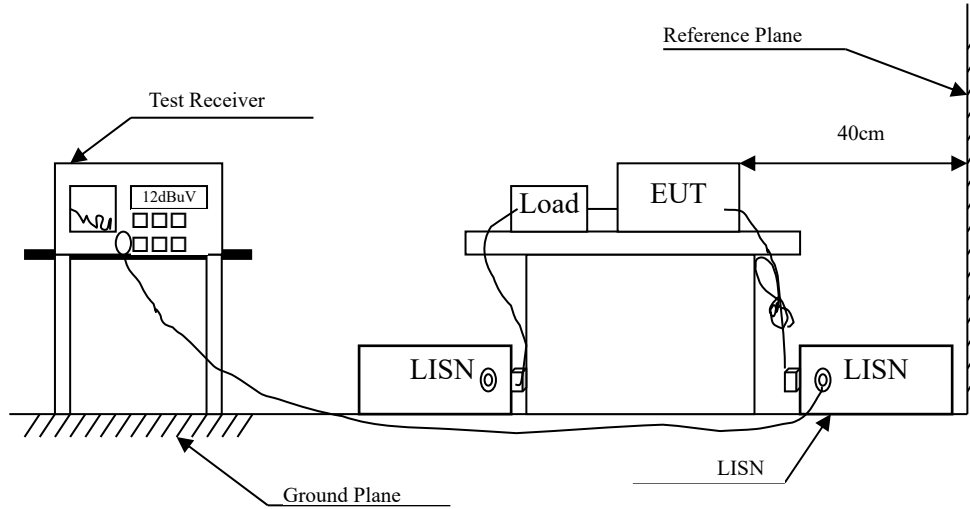
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

| Test item | Uncertainty | |
|---------------------------|------------------------|------------------------|
| Conducted Emission | ±3.42 dB | |
| Peak Power Output | ±0.89dB | |
| Radiated Emission | Under 1GHz ±4.05 dB | Above 1GHz ±3.73 dB |
| RF Antenna Conducted Test | ±2.06 dB | |
| Band Edge | Under 1GHz ±4.05 dB | Above 1GHz ±3.73 dB |
| 6dB Bandwidth | ±1544.74 Hz | |
| Power Density | ±2.06 dB | |
| Duty Cycle | ±2.31 ms | |

2. Conducted Emission

2.1. Test Setup



2.2. Limits

| FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit | | |
|---|--------|-------|
| Frequency MHz | Limits | |
| | QP | AV |
| 0.15 - 0.50 | 66-56 | 56-46 |
| 0.50-5.0 | 56 | 46 |
| 5.0 - 30 | 60 | 50 |

Remarks: In the above table, the tighter limit applies at the band edges.

2.3. Test Procedure

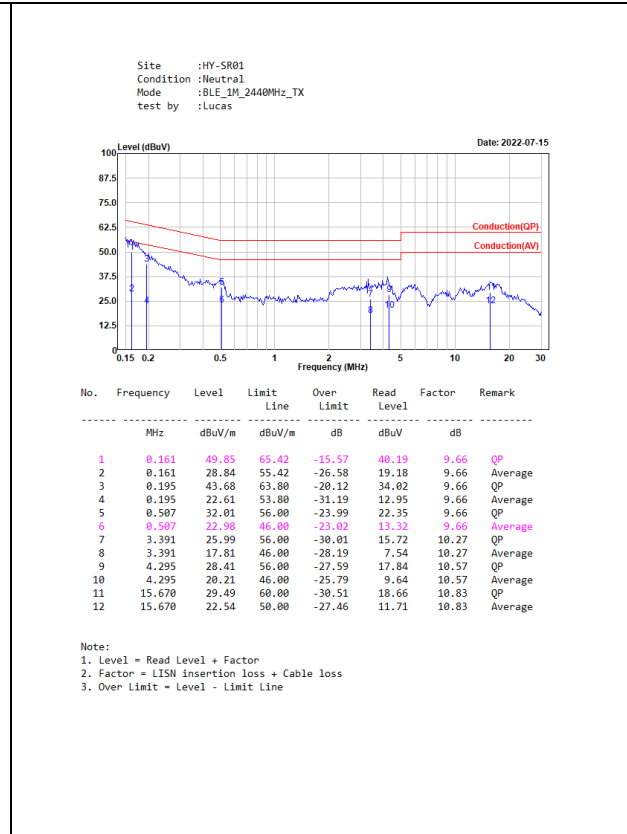
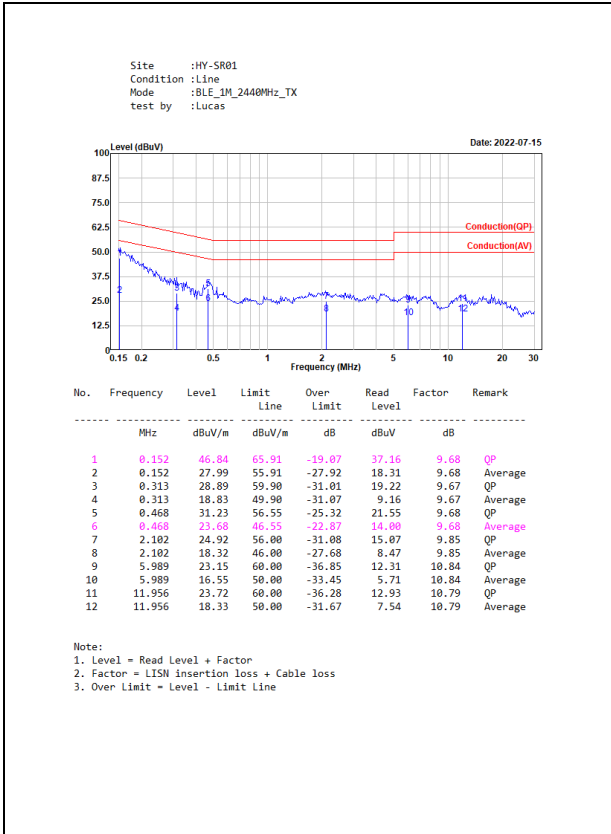
The EUT and Peripherals are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

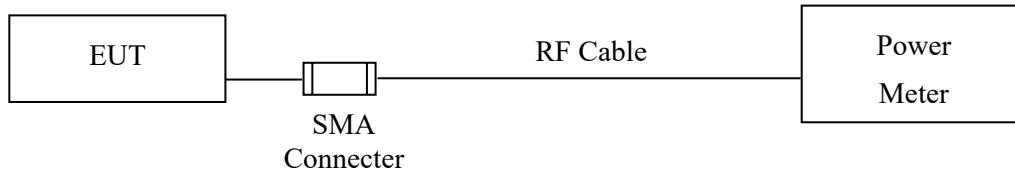
The EUT was setup to ANSI C63.4, 2014; tested to DTS test procedure of FCC KDB-558074 for compliance to FCC 47CFR Subpart C requirements.

2.4. Test Result of Conducted Emission



3. Peak Power Output

3.1. Test Setup



3.2. Limit

The maximum peak power shall be less 1Watt.

3.3. Test Procedure

The EUT was tested according to C63.10:2013 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using C63.10:2013 Section 11.9.1.3 PKPM1 Peak power meter method.

3.4. Test Result of Peak Power Output

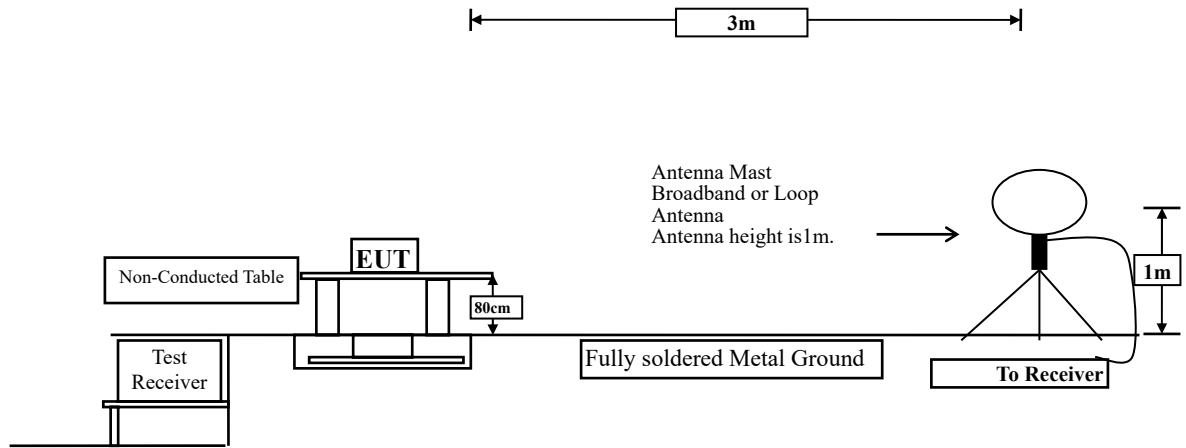
Product : Gaming Mouse
Test Item : Peak Power Output
Test Mode : Mode 1: Transmit - BLE
Test Date : 2022/07/13

| Channel No. | Frequency (MHz) | Measurement (dBm) | Required Limit | Result |
|-------------|--------------------|----------------------|----------------|--------|
| 00 | 2402 | 3.99 | 1 Watt= 30 dBm | Pass |
| 19 | 2440 | 4.00 | 1 Watt= 30 dBm | Pass |
| 39 | 2480 | 3.86 | 1 Watt= 30 dBm | Pass |

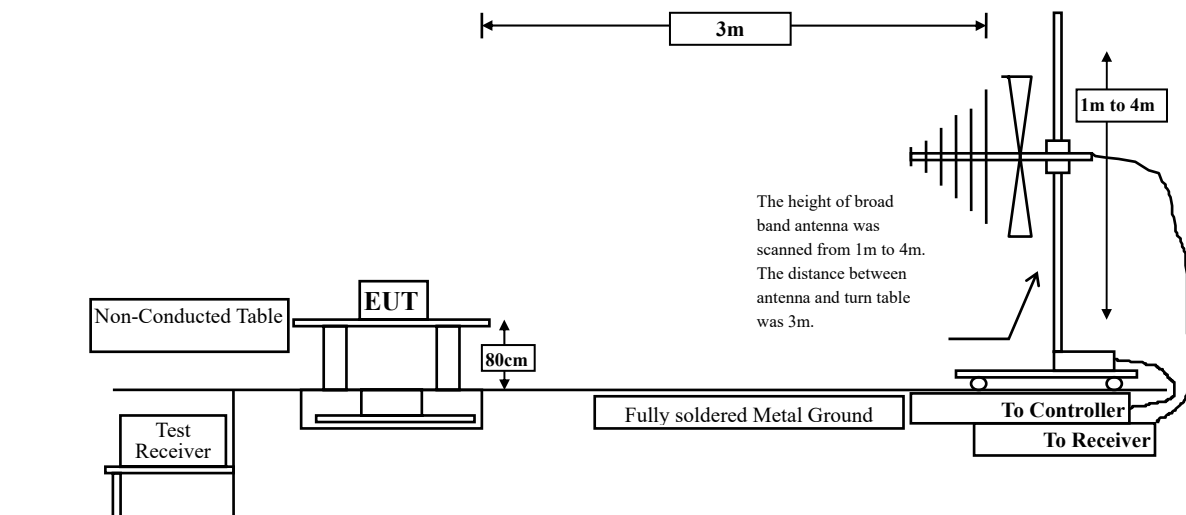
4. Radiated Emission

4.1. Test Setup

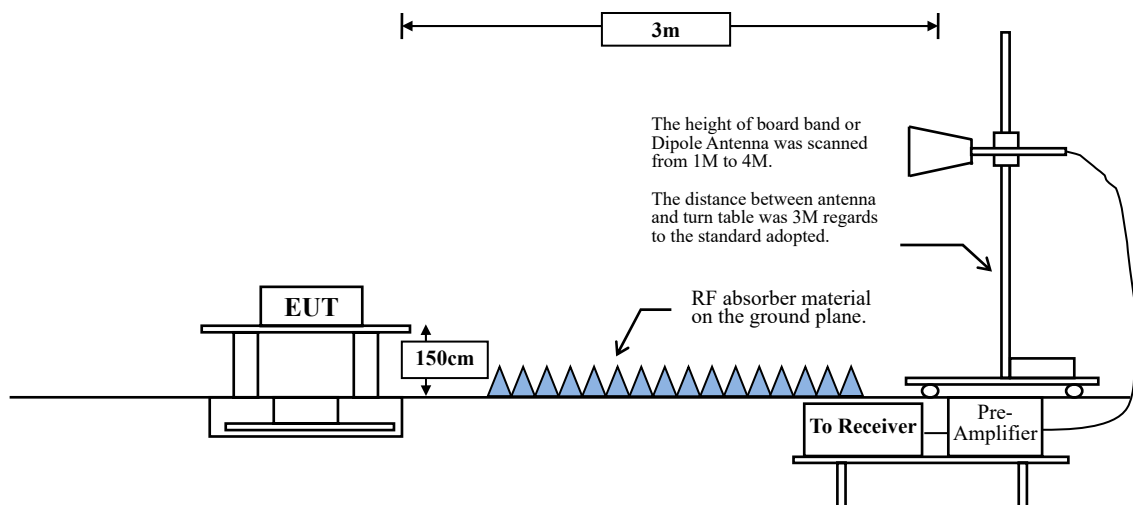
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.2. Limits

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

| FCC Part 15 Subpart C Paragraph 15.209 Limits | | |
|--|--------------------------------------|---------------------------------|
| Frequency MHz | Field strength (microvolts/meter) | Measurement distance (meter) |
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

- Remarks:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the tighter limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna. The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 - RBW as a function of frequency

| Frequency | RBW |
|-------------|-------------|
| 9-150 kHz | 200-300 Hz |
| 0.15-30 MHz | 9-10 kHz |
| 30-1000 MHz | 100-120 kHz |
| > 1000 MHz | 1 MHz |

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq 98\%$

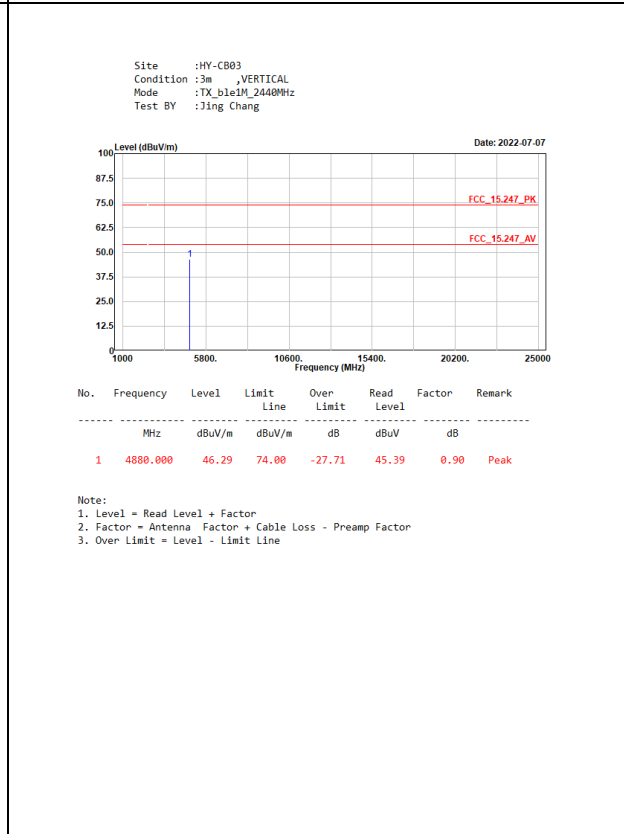
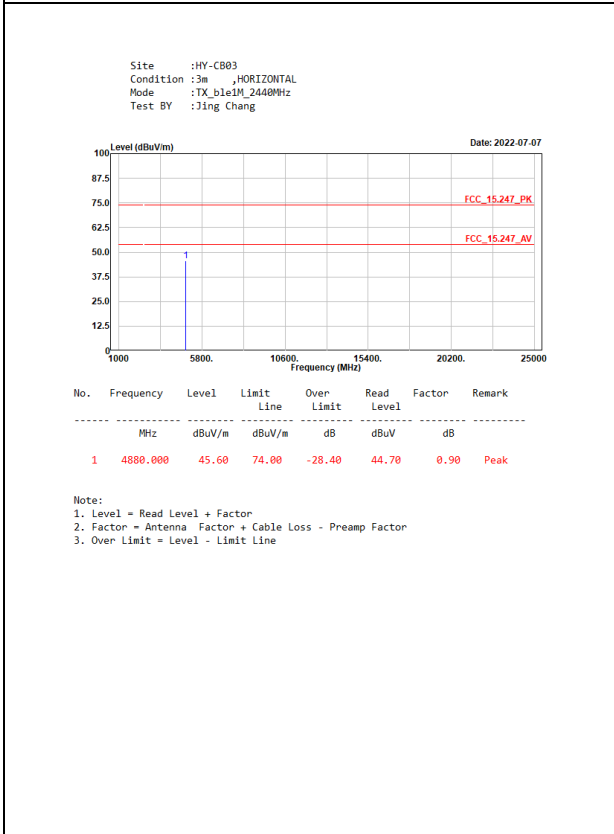
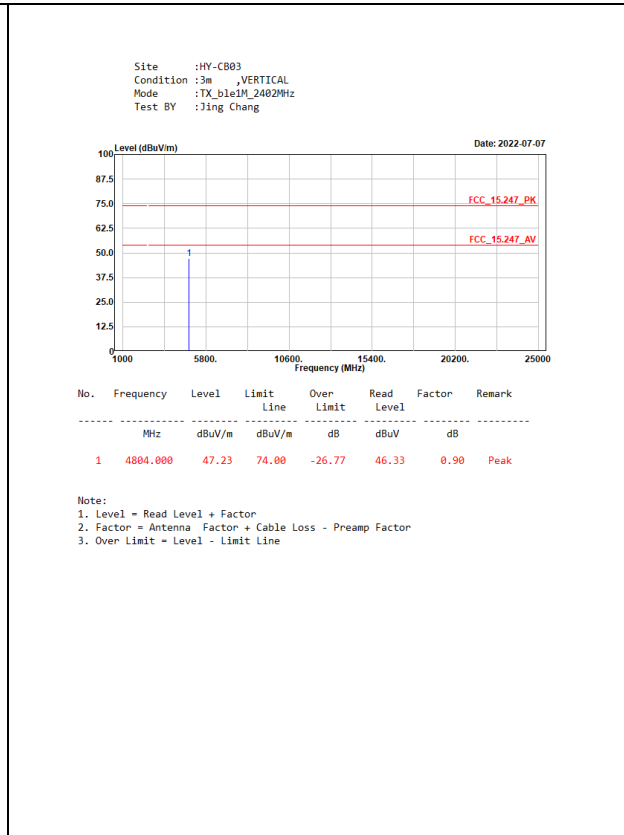
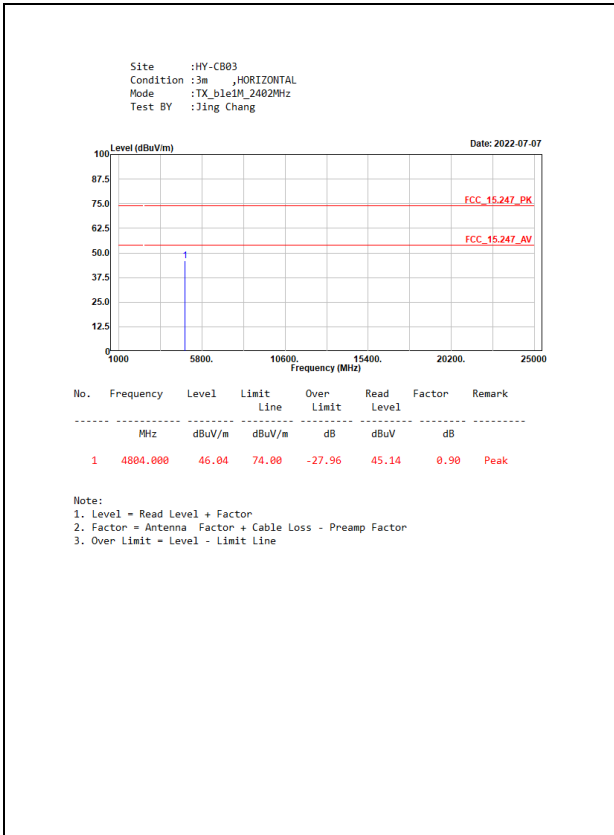
$VBW \geq 1/T$, when duty cycle $< 98\%$

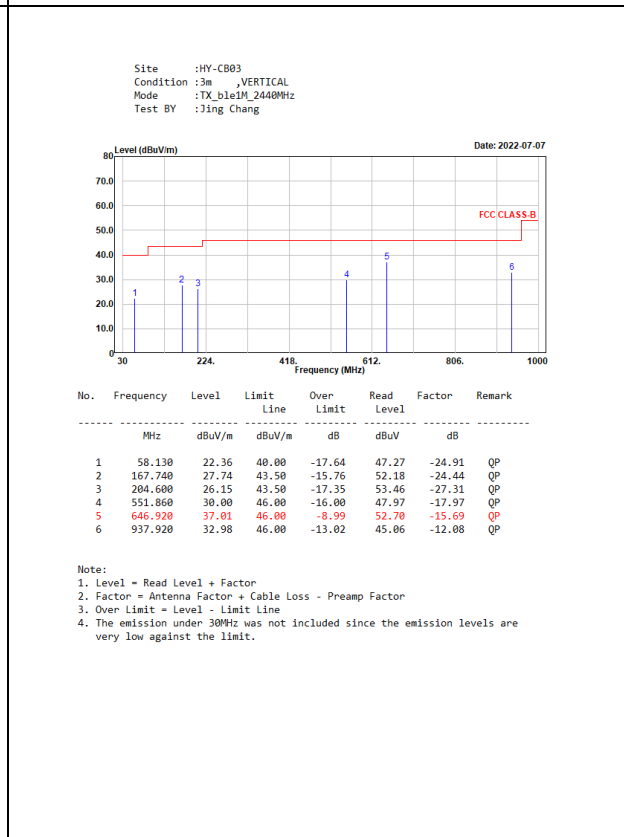
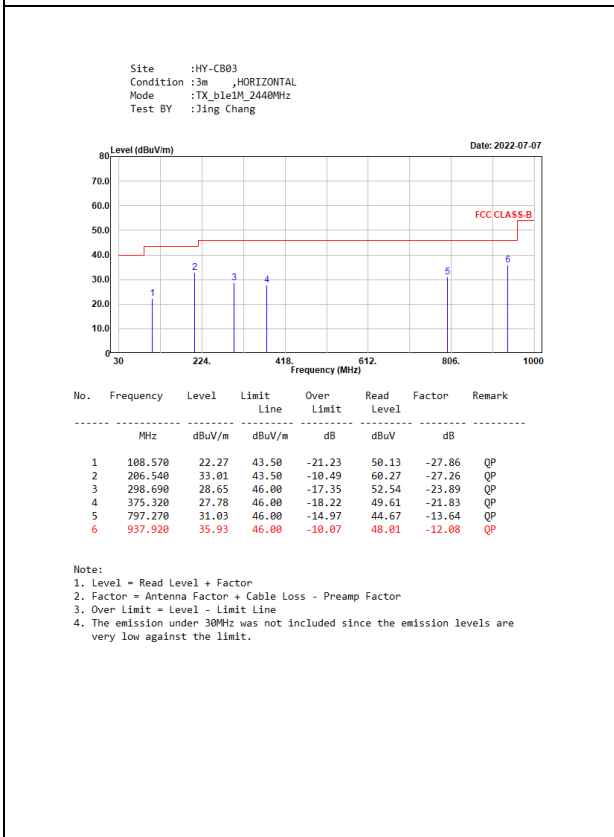
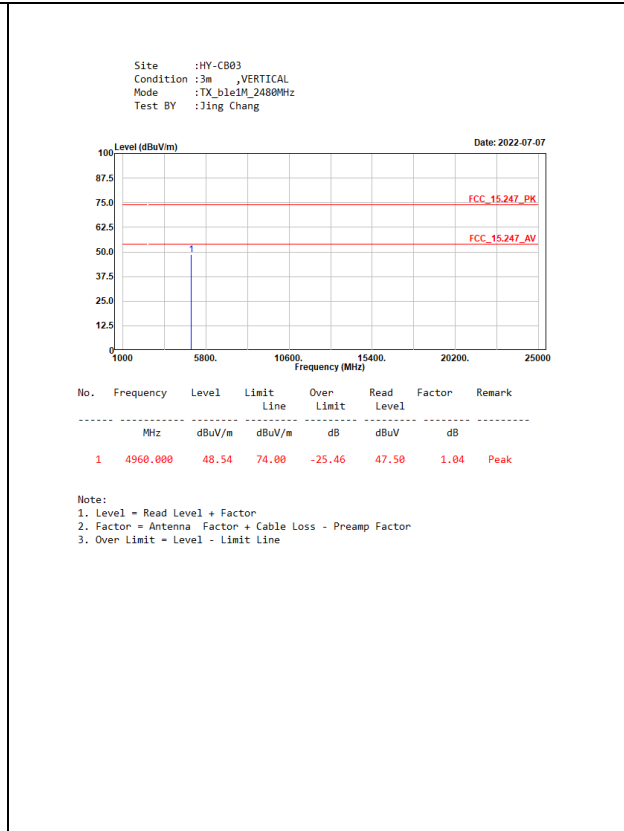
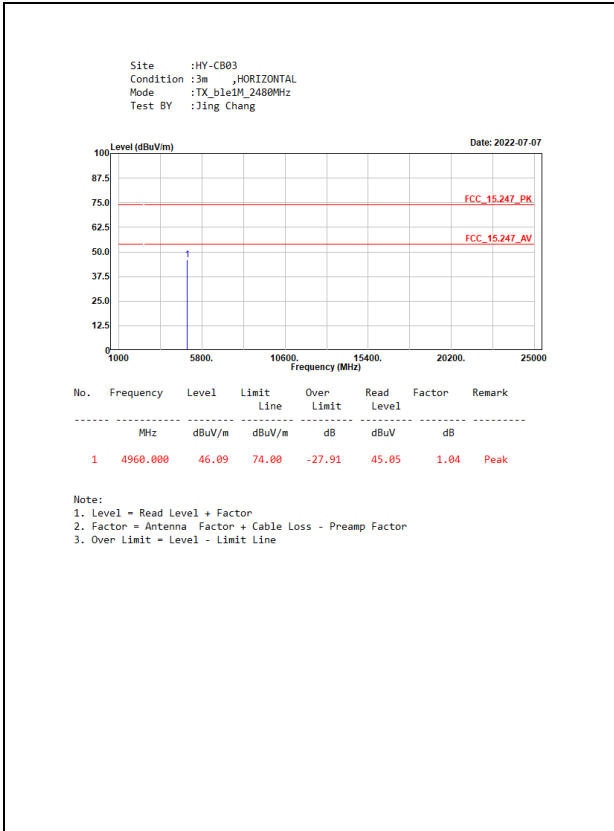
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

| 2.4GHz band | Duty Cycle (%) | T (ms) | 1/T (Hz) | VBW (Hz) |
|-------------|----------------|--------|----------|----------|
| BLE (1Mbps) | 84.80 | 2.1200 | 472 | 500 |

Note: Duty Cycle Refer to Section 9.

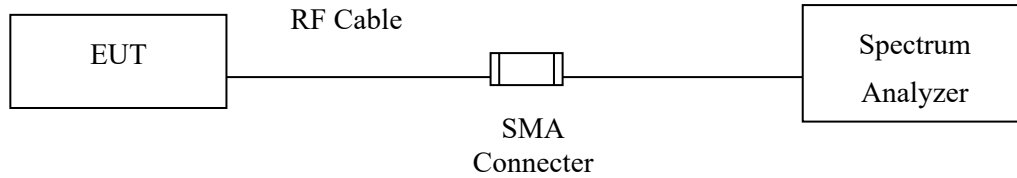
4.4. Test Result of Radiated Emission





5. RF Antenna Conducted Test

5.1. Test Setup



5.2. Limits

According to FCC Section 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 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

5.3. Test Procedure

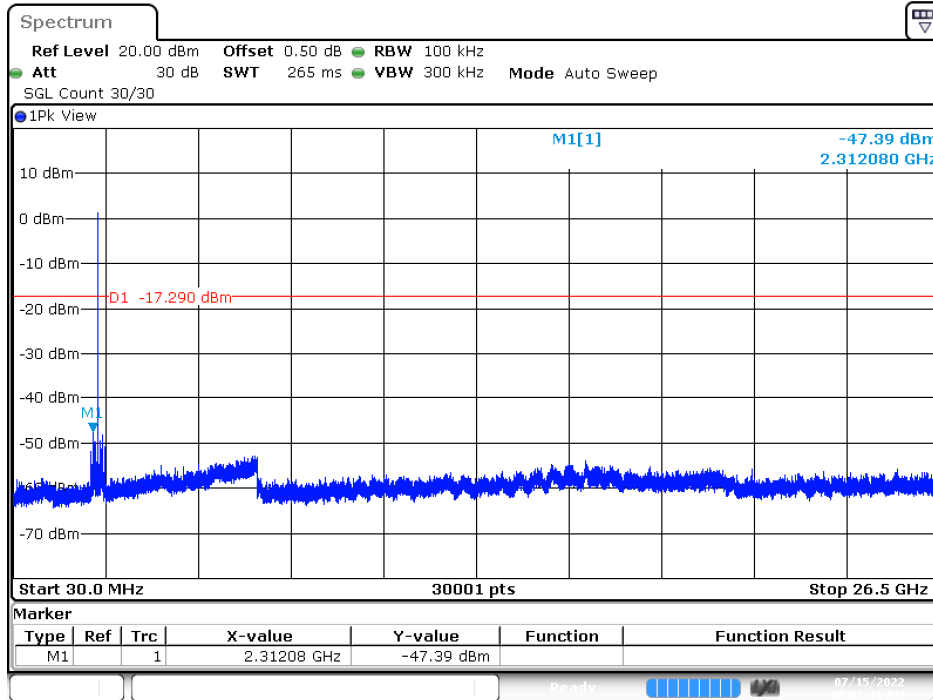
The EUT was tested according to C63.10:2013 Section 11.11 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.4. Test Result of RF Antenna Conducted Test

Product : Gaming Mouse
 Test Item : RF Antenna Conducted Test
 Test Mode : Mode 1: Transmit - BLE

Figure Channel 19:

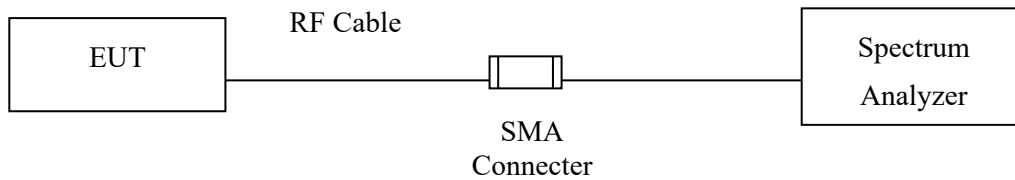


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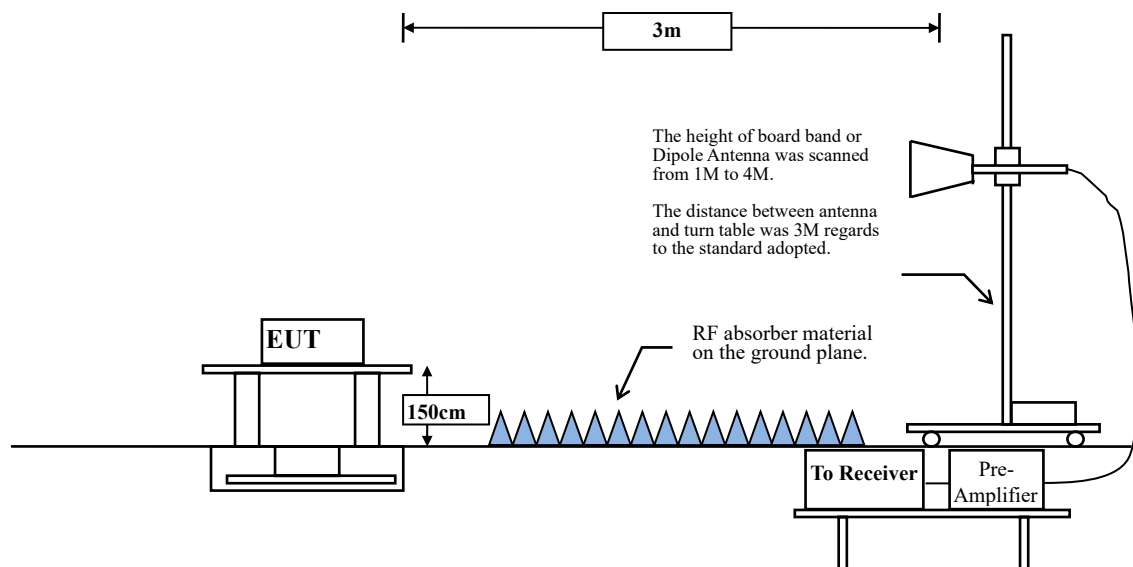
6. Band Edge

6.1. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.2. Limit

According to FCC Section 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 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, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

6.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to C63.10:2013 Section 11.12.1 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

RBW and VBW Parameter setting:

According to C63.10 Section 11.12.2.4 Peak measurement procedure.

RBW = as specified in Table 1.

$VBW \geq 3 \times RBW$.

Table 1 - RBW as a function of frequency

| Frequency | RBW |
|-------------|-------------|
| 9-150 kHz | 200-300 Hz |
| 0.15-30 MHz | 9-10 kHz |
| 30-1000 MHz | 100-120 kHz |
| > 1000 MHz | 1 MHz |

According to C63.10 Section 11.12.2.5 Average measurement procedure.

RBW = 1MHz.

VBW = 10Hz, when duty cycle $\geq 98\%$

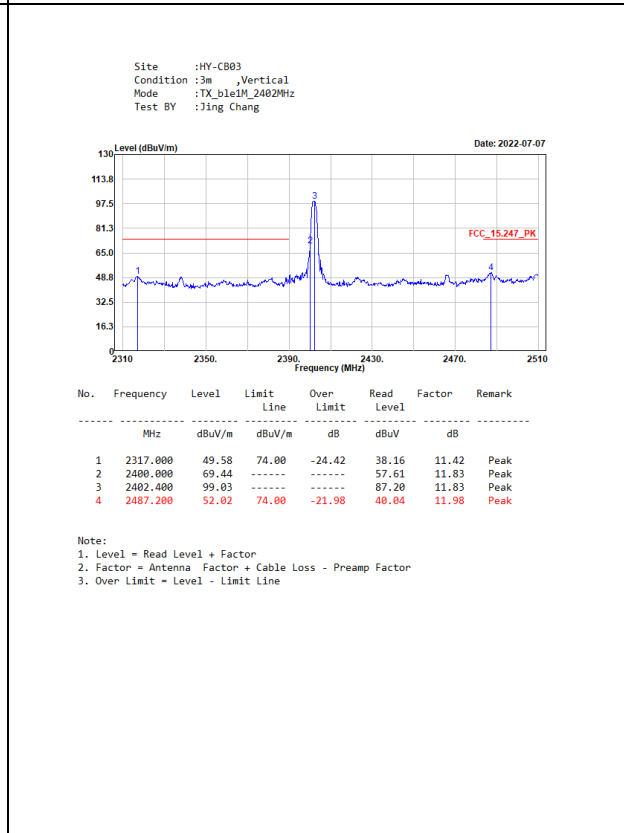
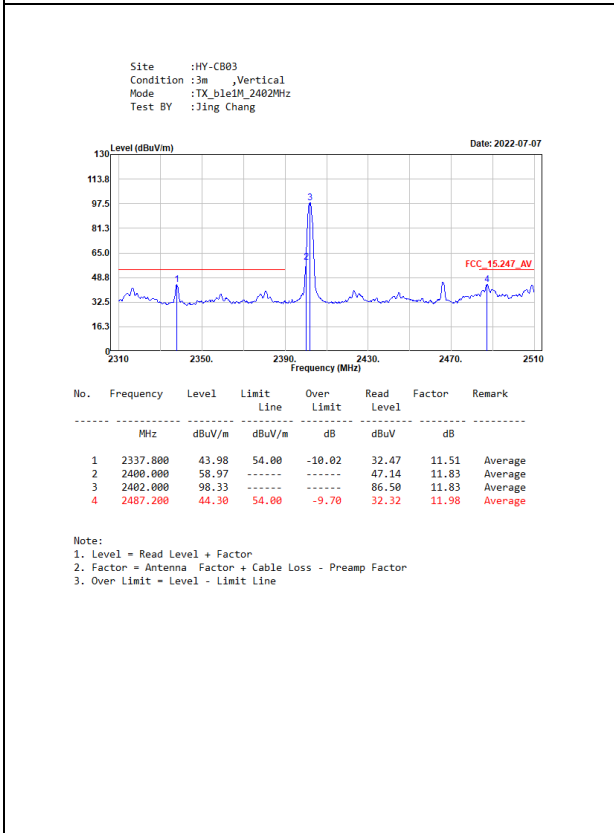
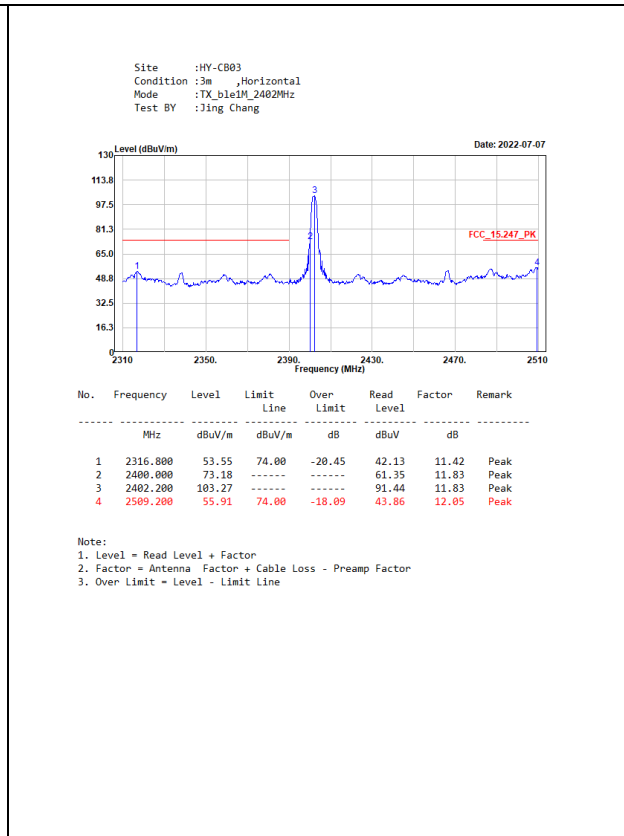
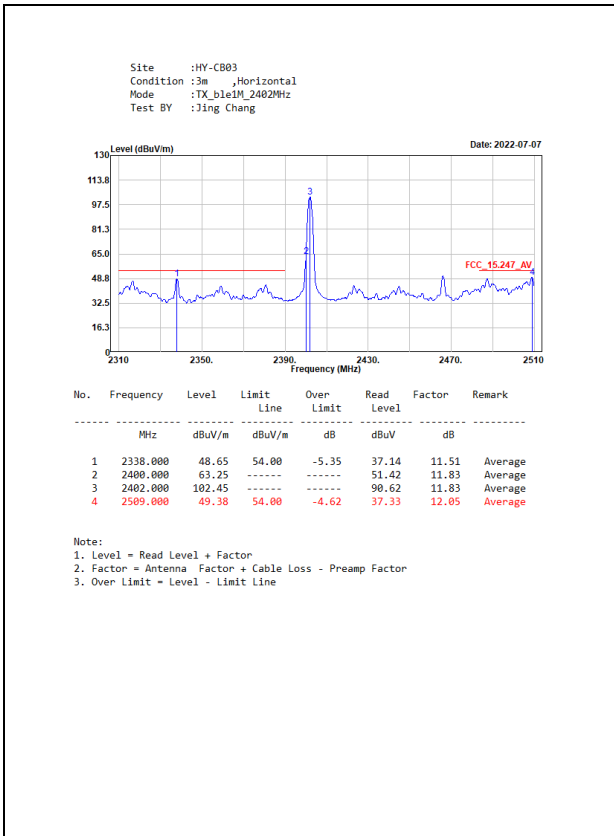
$VBW \geq 1/T$, when duty cycle $< 98\%$

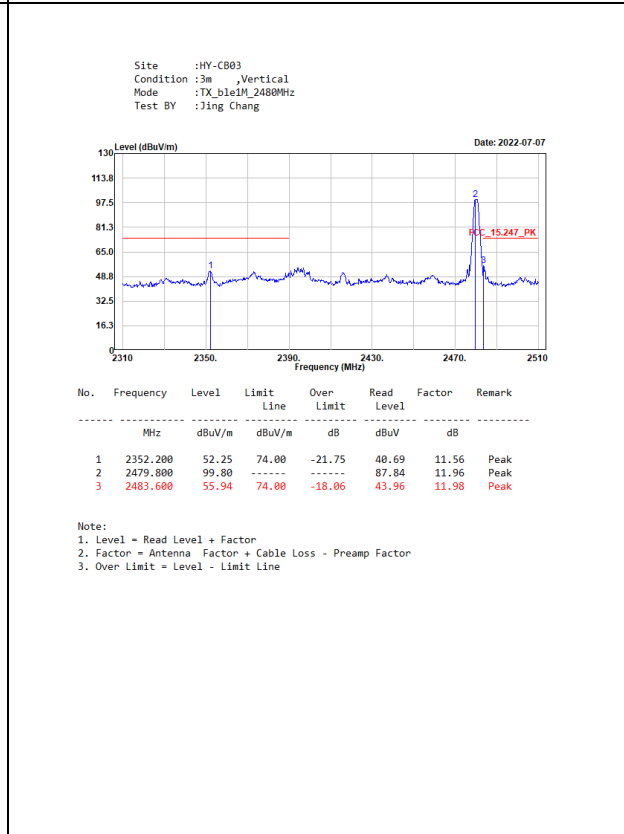
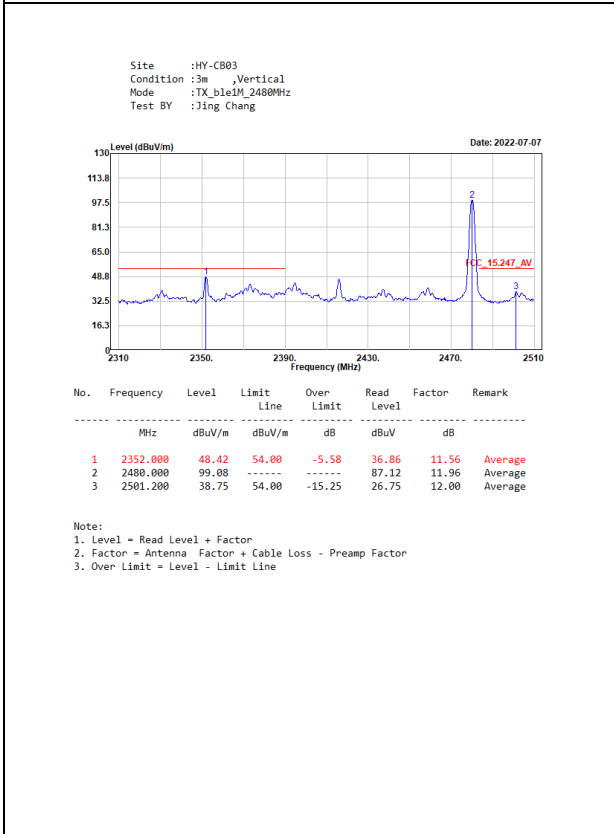
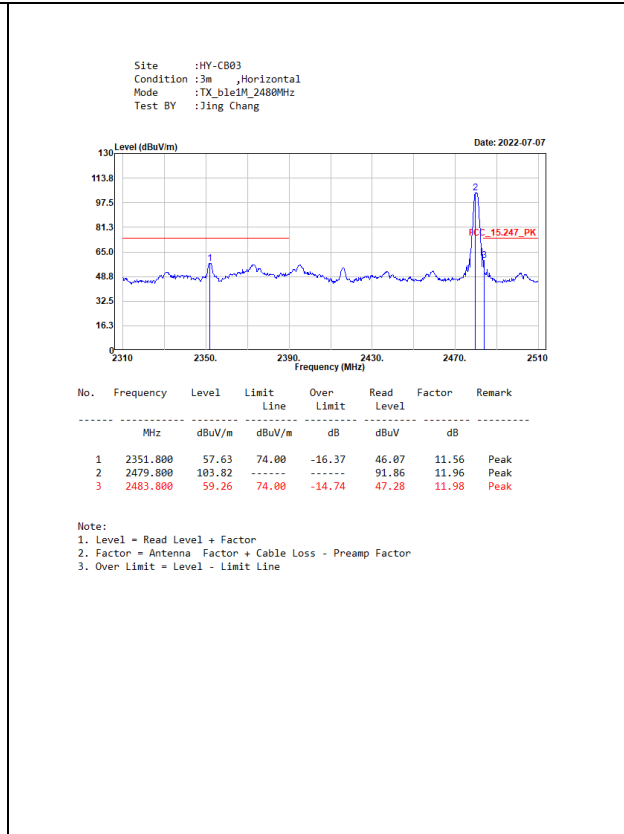
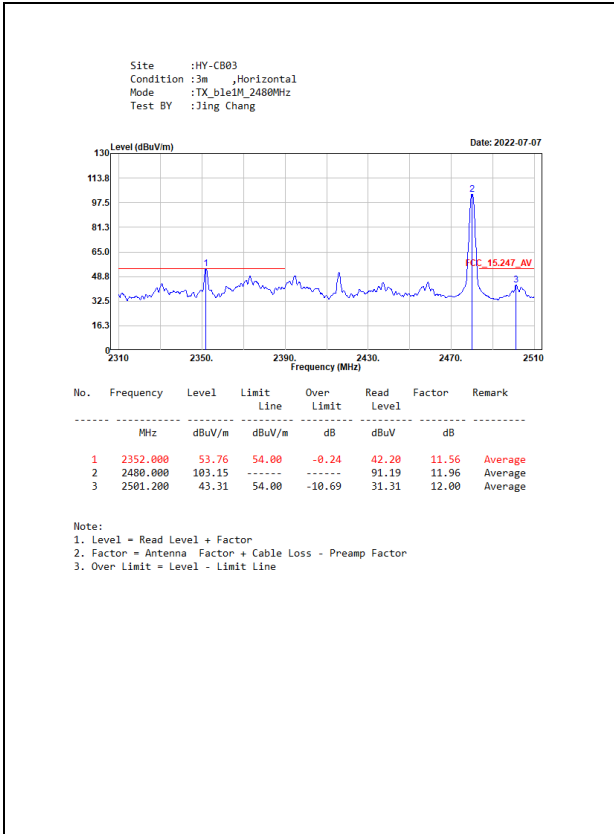
(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

| 2.4GHz band | Duty Cycle (%) | T (ms) | 1/T (Hz) | VBW (Hz) |
|-------------|----------------|--------|----------|----------|
| BLE (1Mbps) | 84.80 | 2.1200 | 472 | 500 |

Note: Duty Cycle Refer to Section 9.

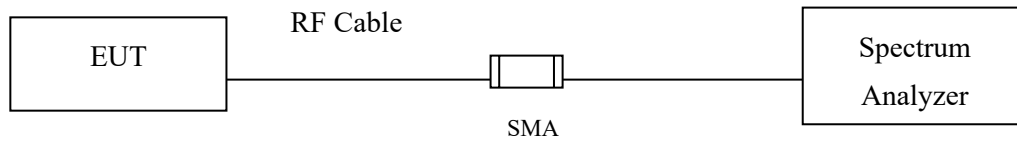
6.4. Test Result of Band Edge





7. 6dB Bandwidth

7.1. Test Setup



7.2. Limits

The minimum bandwidth shall be at least 500 kHz.

7.3. Test Procedure

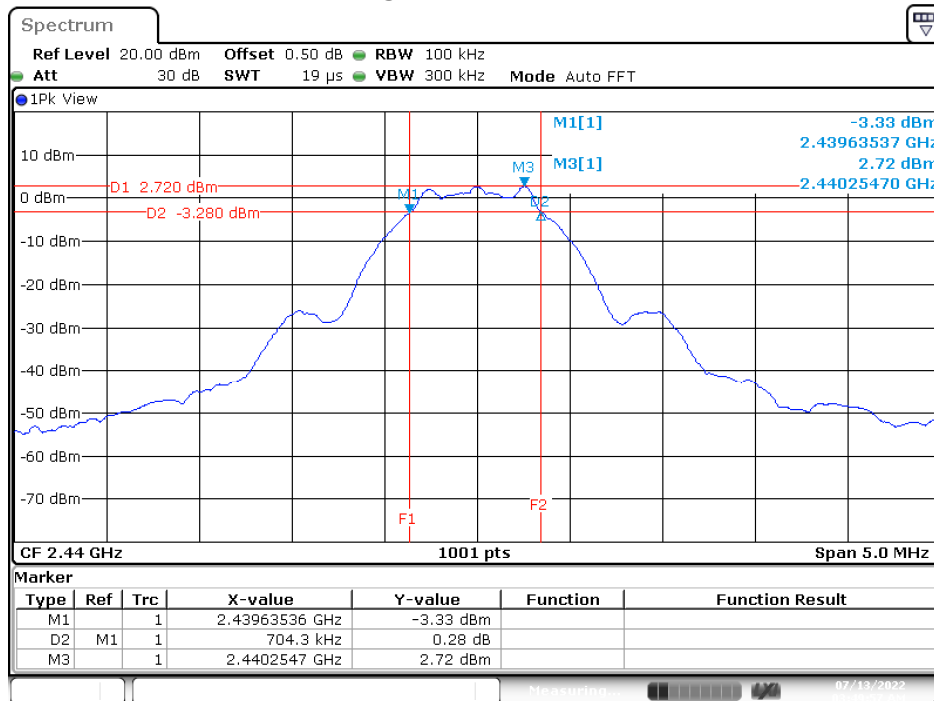
The EUT was setup according to ANSI C63.4, 2014; tested according to ANSI C63.10 Section 11.8 for compliance to FCC 47CFR 15.247 requirements.

7.4. Test Result of 6dB Bandwidth

Product : Gaming Mouse
 Test Item : 6dB Bandwidth Data
 Test Mode : Mode 1: Transmit - BLE

| Channel No. | Frequency (MHz) | Measurement Level (kHz) | Required Limit (kHz) | Result |
|-------------|-----------------|-------------------------|----------------------|--------|
| 00 | 2402 | 704 | >500 | Pass |
| 19 | 2440 | 704 | >500 | Pass |
| 39 | 2480 | 709 | >500 | Pass |

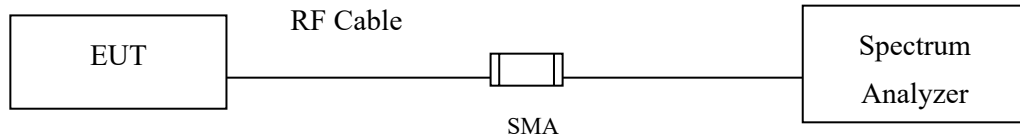
Figure Channel 19:



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8. Power Density

8.1. Test Setup



8.2. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

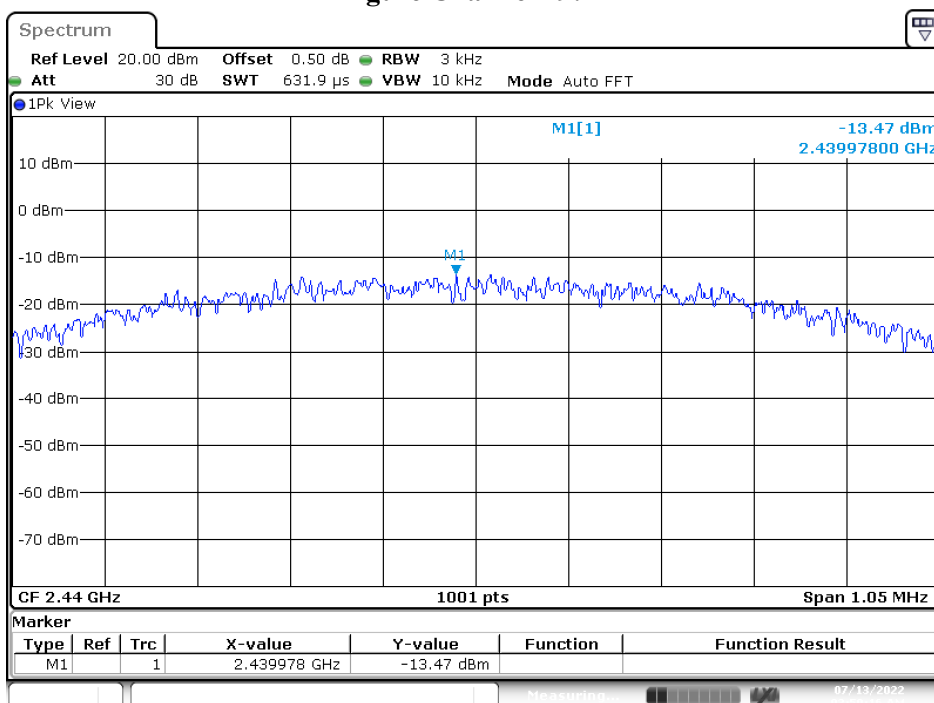
The maximum power spectral density using C63.10 Section 11.10.2 Method PKPSD (peak PSD)

8.4. Test Result of Power Density

Product : Gaming Mouse
 Test Item : Power Density Data
 Test Mode : Mode 1: Transmit - BLE

| Channel No. | Frequency (MHz) | Measure Level (dBm) | Limit (dBm) | Result |
|-------------|-----------------|---------------------|-------------|--------|
| 00 | 2402 | -14.98 | ≤ 8dBm | Pass |
| 19 | 2440 | -13.47 | ≤ 8dBm | Pass |
| 39 | 2480 | -13.79 | ≤ 8dBm | Pass |

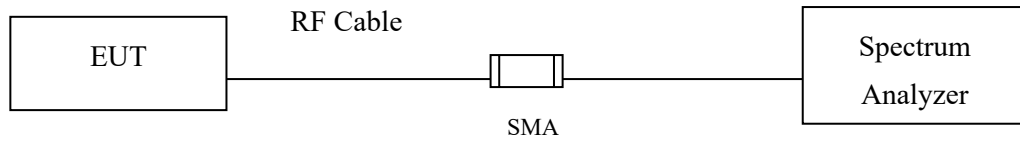
Figure Channel 19:



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9. Duty Cycle

9.1. Test Setup



9.2. Test Procedure

The EUT was setup according to ANSI C63.10 2013; tested according to ANSI C63.10 2013 for compliance to FCC 47CFR 15.247 requirements.

9.3. Test Result of Duty Cycle

Product : Gaming Mouse
 Test Item : Duty Cycle
 Test Mode : Mode 1: Transmit - BLE

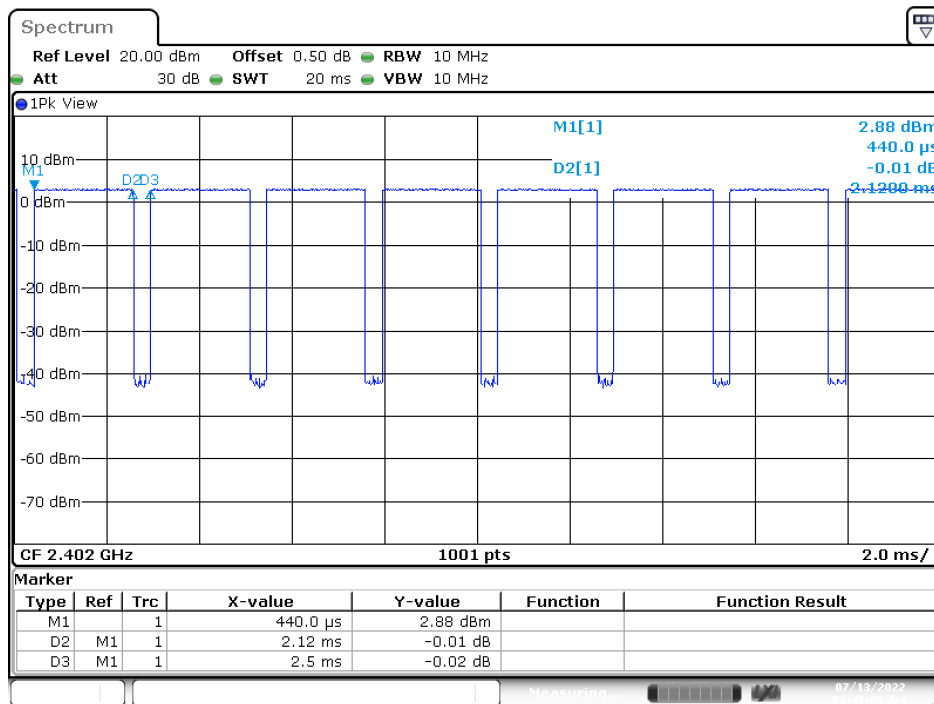
Duty Cycle Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

$$\text{Duty Factor} = 10 \text{ Log} (1/\text{Duty Cycle})$$

Results:

| 2.4GHz band | Ton (ms) | Ton + Toff (ms) | Duty Cycle (%) | Duty Factor (dB) |
|-------------|----------|-----------------|----------------|------------------|
| BLE (1Mbps) | 2.1200 | 2.5000 | 84.80 | 0.72 |



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