

# RF MEASUREMENT REPORT

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**FCC ID:** AL8-VS80T  
**Applicant:** Plantronics, Inc.  
**Product:** Bluetooth Stereo Headset  
**Model No.:** VS80T  
**Brand Name:** plantronics  
**FCC Classification:** Digital Transmission System (DTS)  
**FCC Rule Part(s):** Part 15 Subpart C (Section 15.247)  
**Result:** Complies  
**Received Date** 2022-11-02  
**Test Date:** 2022-11-07 ~ 2022-12-13

**Reviewed By:**

\_\_\_\_\_  
Vincent Yu

**Approved By:**

\_\_\_\_\_  
Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

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### Revision History

Report No.	Version	Description	Issue Date	Note
2211RSU003-U2	Rev. 01	Initial Report	2022-12-22	Valid

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#### 1.4. Product Information

Product Name	Bluetooth Stereo Headset
Model No.	VS80T
Serial No	2LE2K3 (For conducted testing) 2LE2JW (For radiated testing)
Bluetooth Specification	Bluetooth BDR/EDR and Bluetooth LE (1M/2M)
Operating Temperature	0 ~ 45°C
Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

#### 1.5. Radio Specification under Test

Bluetooth Specification	Bluetooth LE
Bluetooth Frequency	2402 ~ 2480MHz
Channel Number	40
Type of modulation	GFSK
Data Rate	1Mbps & 2Mbps
Antenna Type	Inverted-F
Antenna Gain	-0.81 dBi

#### 1.6. Working Frequencies

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

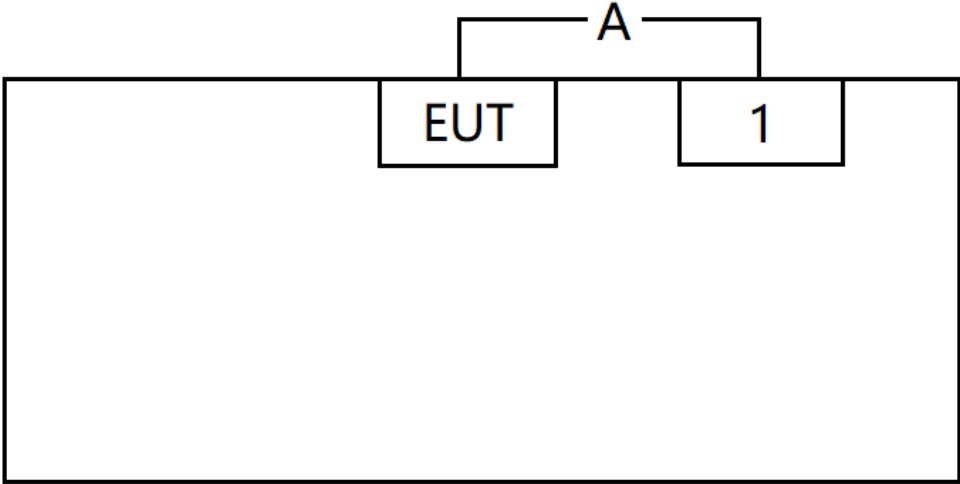
## 2. Test Configuration

### 2.1. Test Mode

Mode 1: Transmit by BLE-1Mbps
Mode 2: Transmit by BLE-2Mbps

### 2.1. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing and AC line conducted testing.

Connection Diagram – Radiated Emission testing & AC Conducted Emissions		
 <p>The diagram shows a large rectangular box representing the test system. Inside the box, there are two smaller boxes: one labeled 'EUT' (Equipment Under Test) on the left and one labeled '1' on the right. A line labeled 'A' connects the top of the 'EUT' box to the top of the '1' box, indicating a connection between the two components.</p>		
Product	Manufacturer	Model No.
1   Notebook (for RF Test)	Lenovo	E495
Cable Type	Cable Description	
A   USB Cable	Shielded, 1.5m	

### 2.2. Test Software

The test utility software used during testing was “BlueTest3.exe”, and the version was 3.3.15.

### 2.3. Applied Standards

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

- FCC Part 15.247
- KDB 558074 D01v05r02
- ANSI C63.10-2013

### 2.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~75%RH



### 3. Antenna Requirements

**Excerpt from §15.203 of the FCC Rules/Regulations:**

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

**Conclusion:**

The unit complies with the requirement of §15.203.

#### 4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Anechoic Chamber	RIKEN	SIP-AC1	MRTSUE06554	1 year	2022-12-23	SIP-AC1
Preamplifier	EMCI	EMC051845SE	MRTSUE06600	1 year	2023-11-07	SIP-AC1
Horn Antenna	R&S	HF907	MRTSUE06610	1 year	2023-07-13	SIP-AC1
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2023-06-01	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2023-11-01	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06620	1 year	2023-11-27	SIP-AC1
EMI Test Receiver	R&S	ESR3	MRTSUE06613	1 year	2023-06-01	SIP-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2023-03-14	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2023-11-27	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2023-11-27	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2022-12-23	SIP-AC2
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2023-06-08	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2023-10-13	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2023-08-16	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2023-11-01	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2023-11-27	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2022-12-23	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06603	1 year	2023-10-25	SIP-AC3
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2023-06-01	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2023-06-01	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2023-11-27	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2024-10-23	SIP-SR2
Signal Analyzer	Keysight	N9010B	MRTSUE07036	1 year	2023-03-31	SIP-TR2
USB Power Sensor	Keysight	U2021XA	MRTSUE06596	1 year	2023-08-23	SIP-TR2
Thermohygrometer	testo	608-H1	MRTSUE11109	1 year	2023-03-21	SIP-TR2
Attenuator	MVE	MVE2213	MRTSUE11101	1 year	2023-06-09	SIP-TR2

Software	Version	Function
EMI V3	V3.0.0	EMI Test Software
Controller_MF 7802BS	V1.02	RE Antenna & Turntable
Agilent Power Analyzer/Agilent Power Panel	V R03.09.00	Power

## 5. Decision Rules and Measurement Uncertainty

### 5.1. Decision Rules

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4: 2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.2. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k = 2$ .

<b>AC Conducted Emission Measurement</b>
Measurement Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
<b>Radiated Disturbance</b>
Measurement Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): Coaxial: 9kHz~30MHz: 2.59dB Coplanar: 9kHz~30MHz: 2.60dB Horizontal: 30MHz~200MHz: 3.85dB 200MHz~1GHz: 4.36dB 1GHz~40GHz: 4.98dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.28dB 1GHz~40GHz: 4.91dB
<b>Spurious Emissions, Conducted</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.3dB
<b>Output Power</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 1.5dB
<b>Power Spectrum Density</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 2.3dB
<b>Occupied Bandwidth</b>
Measuring Uncertainty for a Level of Confidence of 95% ( $U=2Uc(y)$ ): 3.2%

## 6. Test Result

### 6.1. Summary

FCC Section(s)	Test Description	Test Condition	Verdict
15.247(a)(2)	6dB Bandwidth	Conducted	Pass
15.247(b)(3)	Output Power		Pass
15.247(e)	Power Spectral Density		Pass
15.247(d)	Band Edge / Out-of-Band Emissions		Pass
15.205 15.209	General Field Strength (Restricted Bands and Radiated Emission)	Radiated	Pass
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass

#### Notes:

- The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
- For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.

## 6.2. 6dB Bandwidth Measurement

### 6.2.1. Test Limit

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

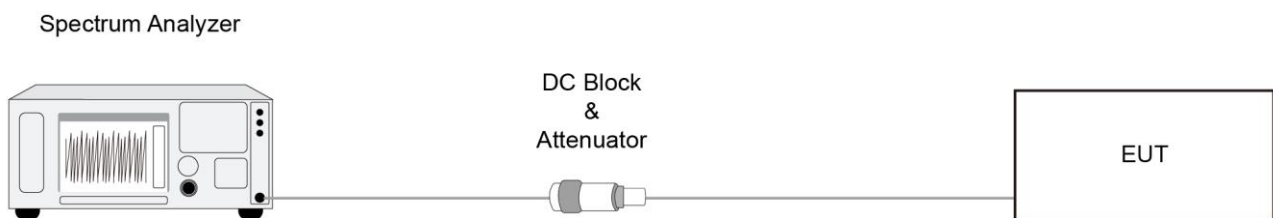
### 6.2.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.8

### 6.2.3. Test Setting

1. The Spectrum's automatic bandwidth measurement capability was used to perform the 6dB bandwidth measurement. The "X" dB bandwidth parameter was set to  $X = 6$ . The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. Set RBW = 100 kHz
3. VBW  $\geq 3 \times$  RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

### 6.2.4. Test Setup



### 6.2.5. Test Result

Refer to Appendix A.2.

### 6.3. Output Power Measurement

#### 6.3.1. Test Limit

The maximum output power shall be less 1 Watt (30dBm).

The conducted output power limit specified in paragraph FCC Part 15.247(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 FCC Part 15.247(b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### 6.3.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.9.1.3

ANSI C63.10 - 2013 - Section 11.9.2.3.2

#### 6.3.3. Test Setting

##### **Method PKPM1 (Peak Power Measurement of Signals with DTS BW $\leq$ 50MHz)**

Peak power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The pulse sensor employs a VBW = 50MHz so this method was only used for signals whose DTS bandwidth was less than or equal to 50MHz.

##### **Average Power Measurement**

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.

#### 6.3.4. Test Setup



#### 6.3.5. Test Result

Refer to Appendix A.3.

## 6.4. Power Spectral Density Measurement

### 6.4.1. Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

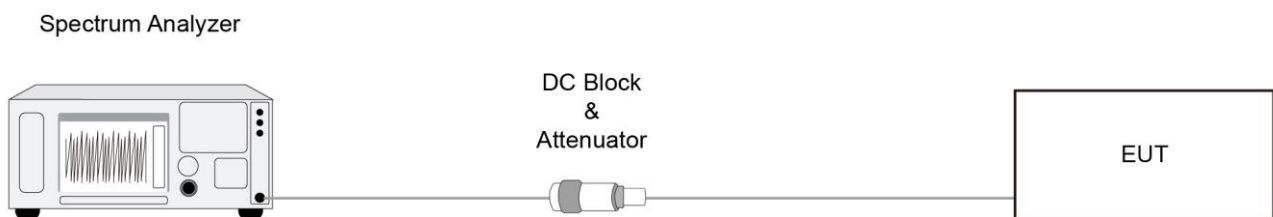
### 6.4.2. Test Procedure

ANSI C63.10-2013 Section 11.10.2

### 6.4.3. Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

### 6.4.4. Test Setup



### 6.4.5. Test Result

Refer to Appendix A.4.

## **6.5. Conducted Band Edge and Out-of-Band Emissions Measurement**

### **6.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **6.5.2. Test Procedure**

ANSI C63.10-2013 - Section 11.11

### **6.5.3. Test Setting**

#### **Reference level measurement**

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq 1.5$  times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq 3 \times$  RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

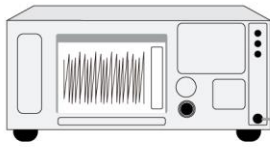
#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize



#### 6.5.4. Test Setup

Spectrum Analyzer



DC Block  
&  
Attenuator



#### 6.5.5. Test Result

Refer to Appendix A.5.

## 6.6. Radiated Spurious Emission Measurement

### 6.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

### 6.6.2. Test Procedure

ANSI C63.10 - 2013 - Section 11.11 & 11.12

ANSI C63.10 - 2013 - Section 6.3 (General Requirements)

ANSI C63.10 - 2013 - Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 - 2013 - Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 - 2013 - Section 6.6 (Standard test method above 1GHz)

### 6.6.3. Test Setting

**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
> 1000MHz	1MHz

**Quasi-Peak Measurements below 1GHz**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = as specified in Table 1
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

**Peak Measurements above 1GHz**

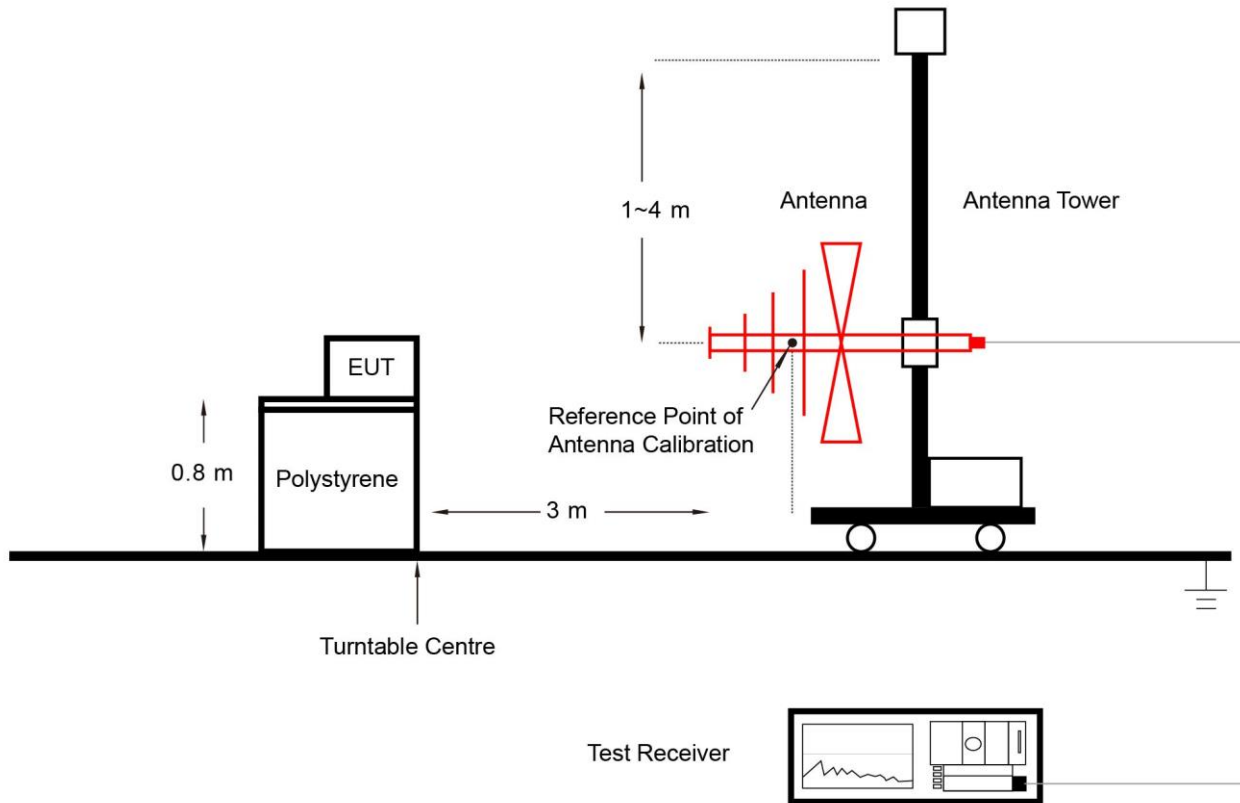
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

**Average Measurements above 1GHz (Method VB)**

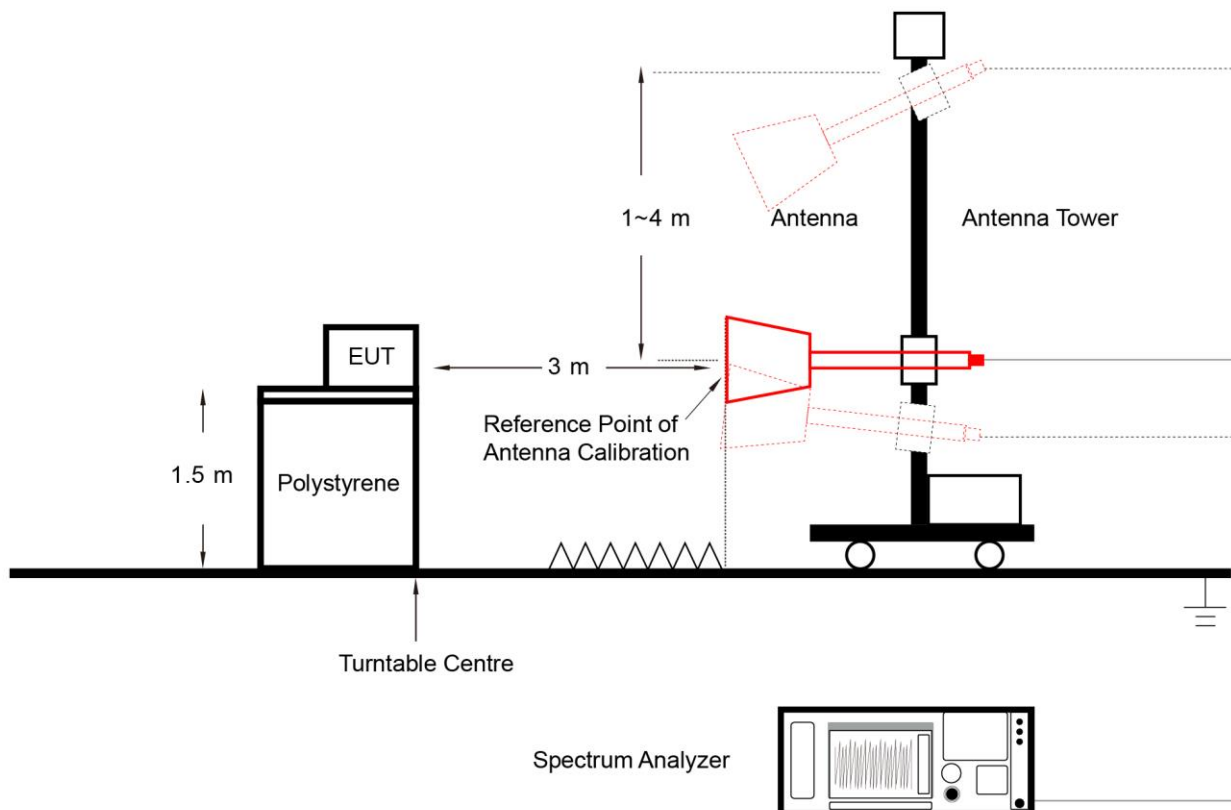
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

### 6.6.4. Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



#### **6.6.5. Test Result**

Refer to Appendix A.6.

## 6.7. Radiated Restricted Band Edge Measurement

### 6.7.1. Test Limit

#### For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )
13.36 - 13.41	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

### 6.7.2. Test Procedure

ANSI C63.10-2013 Section 6.3 & 6.6 & 11.13

### 6.7.3. Test Setting

#### Peak Field Strength Measurements

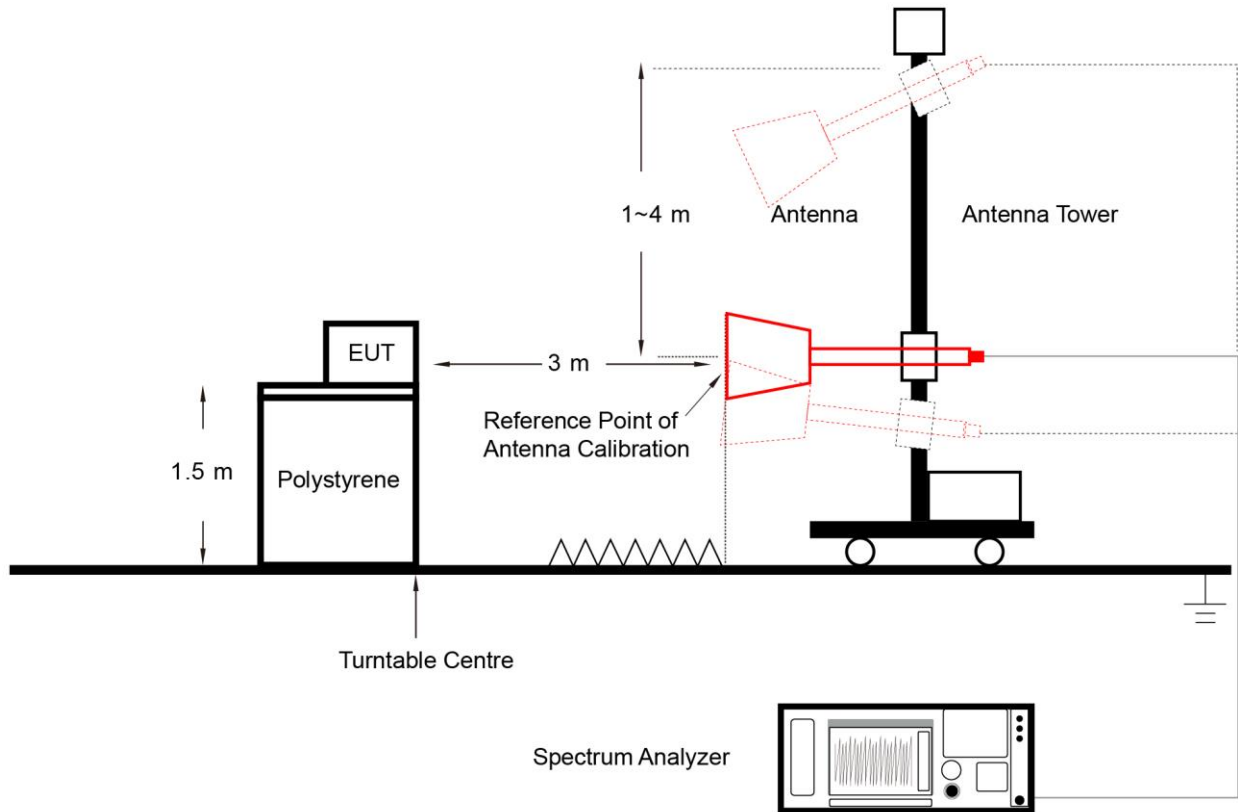
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak

6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

#### 6.7.4. Test Setup



#### 6.7.5. Test Result

Refer to Appendix A.7.



## 6.8. AC Conducted Emissions Measurement

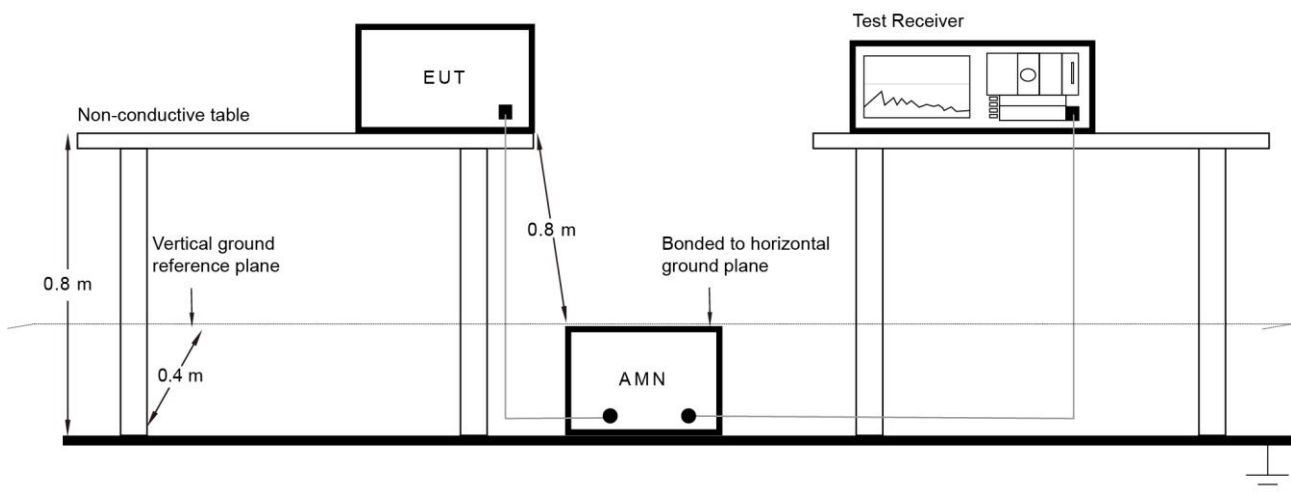
### 6.8.1. Test Limit

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

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 6.8.2. Test Setup



### 6.8.3. Test Result

Refer to Appendix A.8.

## Appendix A - Test Result

### A.1 Duty Cycle Test Result

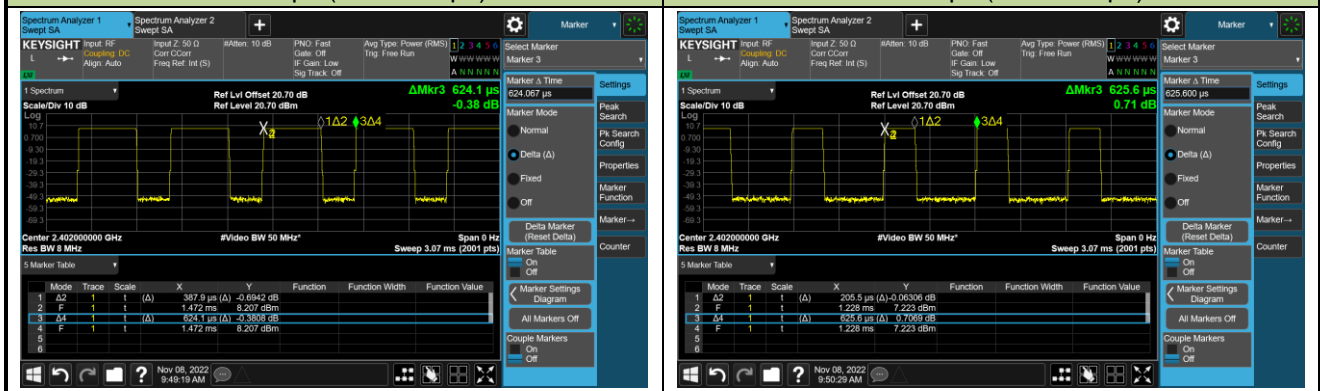
Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2022-11-08		

Test Mode	Duty Cycle
BLE-1Mbps	62.15%
BLE-2Mbps	32.85%

Duty Cycle (T = Transmission Duration)

BLE-1Mbps (T = 387.9 $\mu$ s)

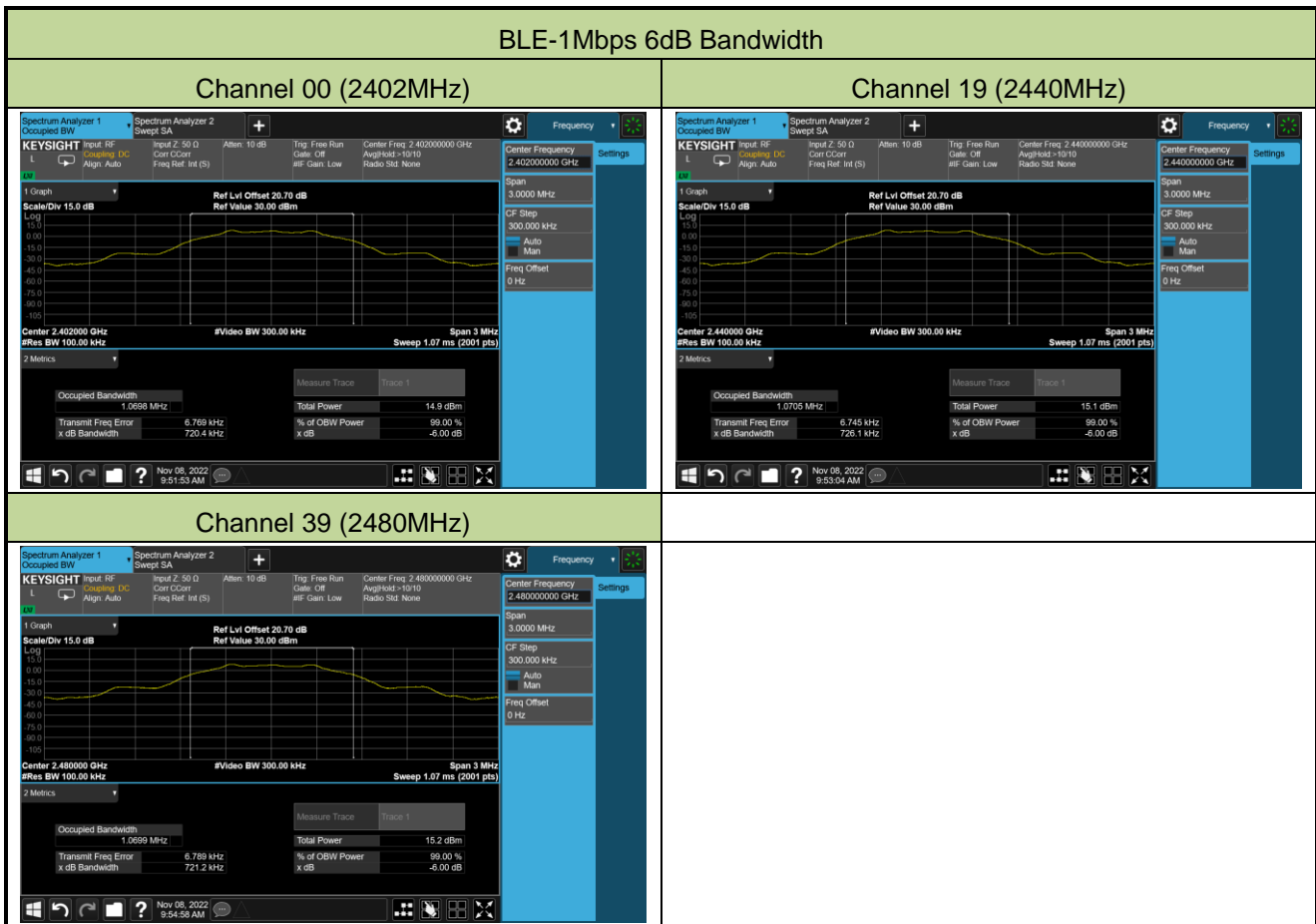
BLE-2Mbps (T = 205.5 $\mu$ s)

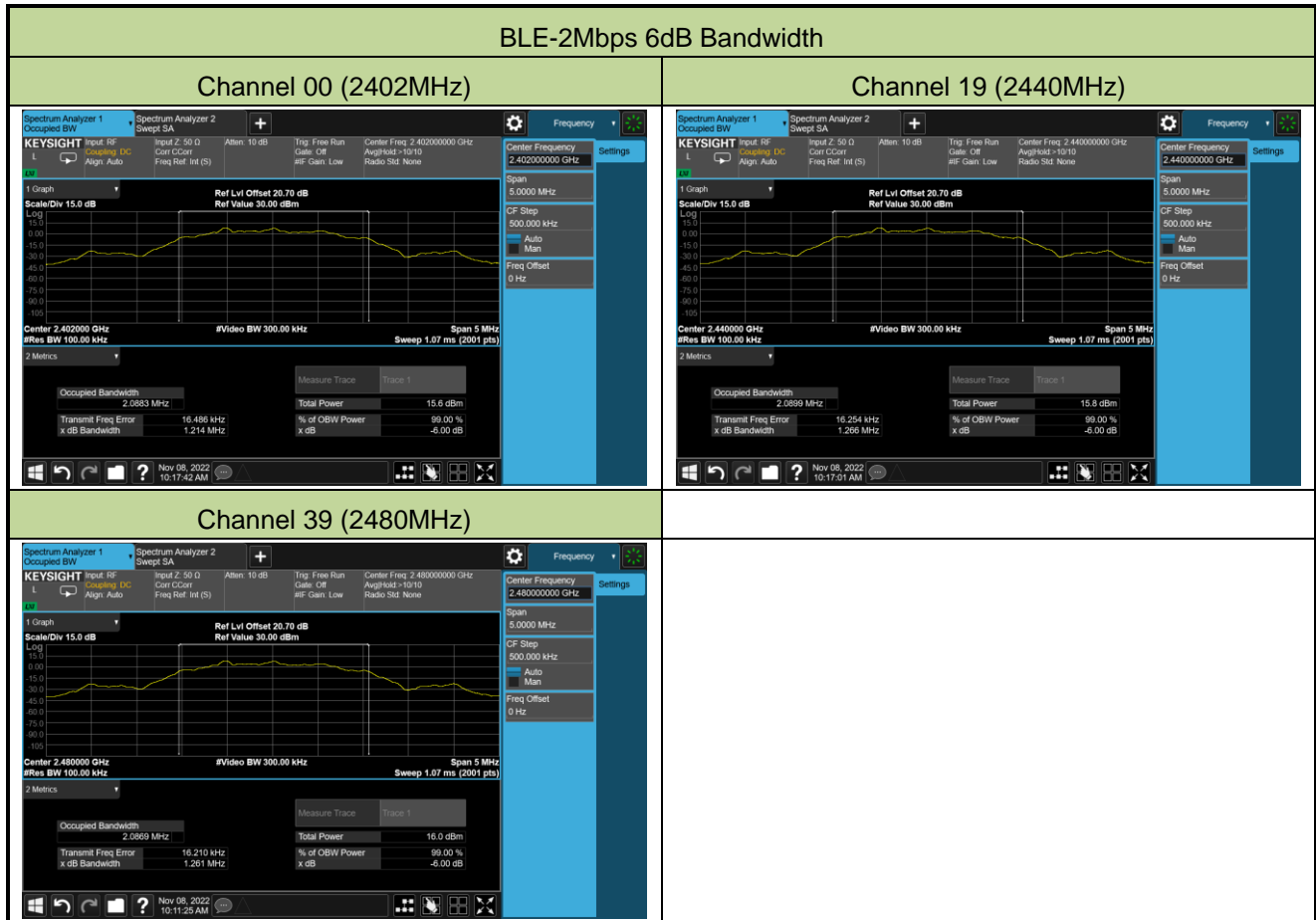


**A.2 6dB Bandwidth Test Result**

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2022-11-08		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
BLE	1Mbps	00	2402	0.7204	≥ 0.5
BLE	1Mbps	19	2440	0.7261	≥ 0.5
BLE	1Mbps	39	2480	0.7212	≥ 0.5
BLE	2Mbps	00	2402	1.214	≥ 0.5
BLE	2Mbps	19	2440	1.266	≥ 0.5
BLE	2Mbps	39	2480	1.261	≥ 0.5





### A.3 Output Power Test Result

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2022-11-07		

#### Test Result of Peak Output Power

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.58	≤ 30.00	Pass
BLE	1Mbps	19	2440	8.68	≤ 30.00	Pass
BLE	1Mbps	39	2480	8.82	≤ 30.00	Pass
BLE	2Mbps	00	2402	8.63	≤ 30.00	Pass
BLE	2Mbps	19	2440	8.71	≤ 30.00	Pass
BLE	2Mbps	39	2480	8.81	≤ 30.00	Pass

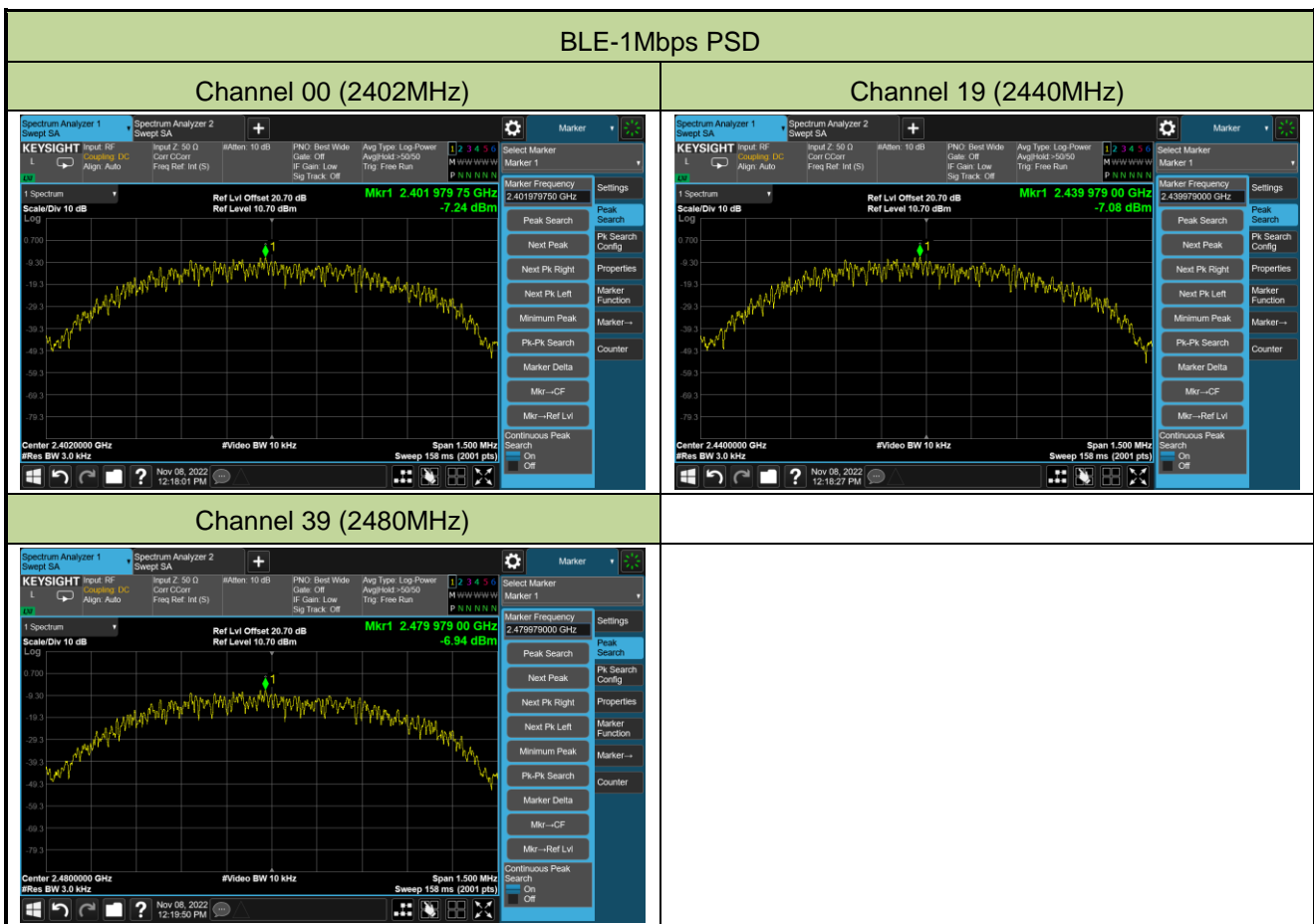
#### Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate	Channel No.	Frequency (MHz)	Average Power (dBm)	Limit (dBm)	Result
BLE	1Mbps	00	2402	8.28	≤ 30.00	Pass
BLE	1Mbps	19	2440	8.41	≤ 30.00	Pass
BLE	1Mbps	39	2480	8.54	≤ 30.00	Pass
BLE	2Mbps	00	2402	8.30	≤ 30.00	Pass
BLE	2Mbps	19	2440	8.43	≤ 30.00	Pass
BLE	2Mbps	39	2480	8.54	≤ 30.00	Pass

### A.4 Power Spectral Density Test Result

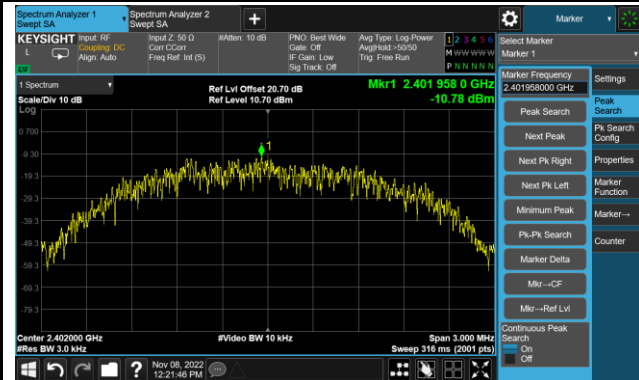
Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2022-11-08		

Test Mode	Data Rate	Channel No.	Frequency (MHz)	PSD Result (dBm / 3kHz)	Limit (dBm / 3kHz)	Result
BLE	1Mbps	00	2402	-7.24	≤ 8.00	Pass
BLE	1Mbps	19	2440	-7.08	≤ 8.00	Pass
BLE	1Mbps	39	2480	-6.94	≤ 8.00	Pass
BLE	2Mbps	00	2402	-10.78	≤ 8.00	Pass
BLE	2Mbps	19	2440	-10.69	≤ 8.00	Pass
BLE	2Mbps	39	2480	-10.56	≤ 8.00	Pass

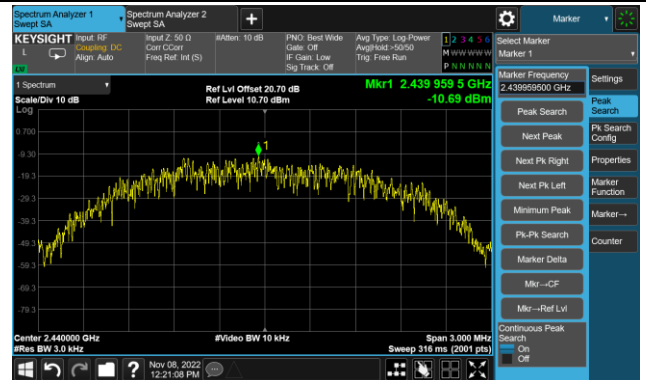


BLE-2Mbps PSD

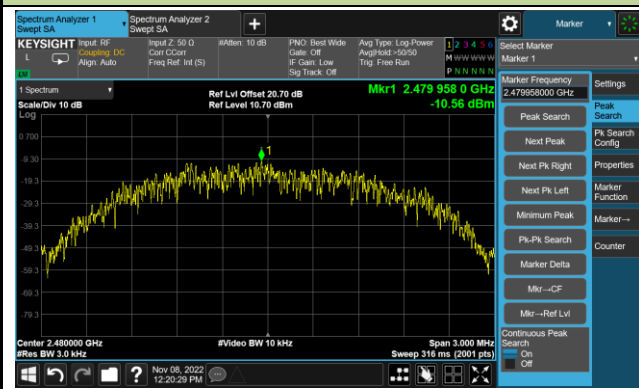
Channel 00 (2402MHz)



Channel 19 (2440MHz)



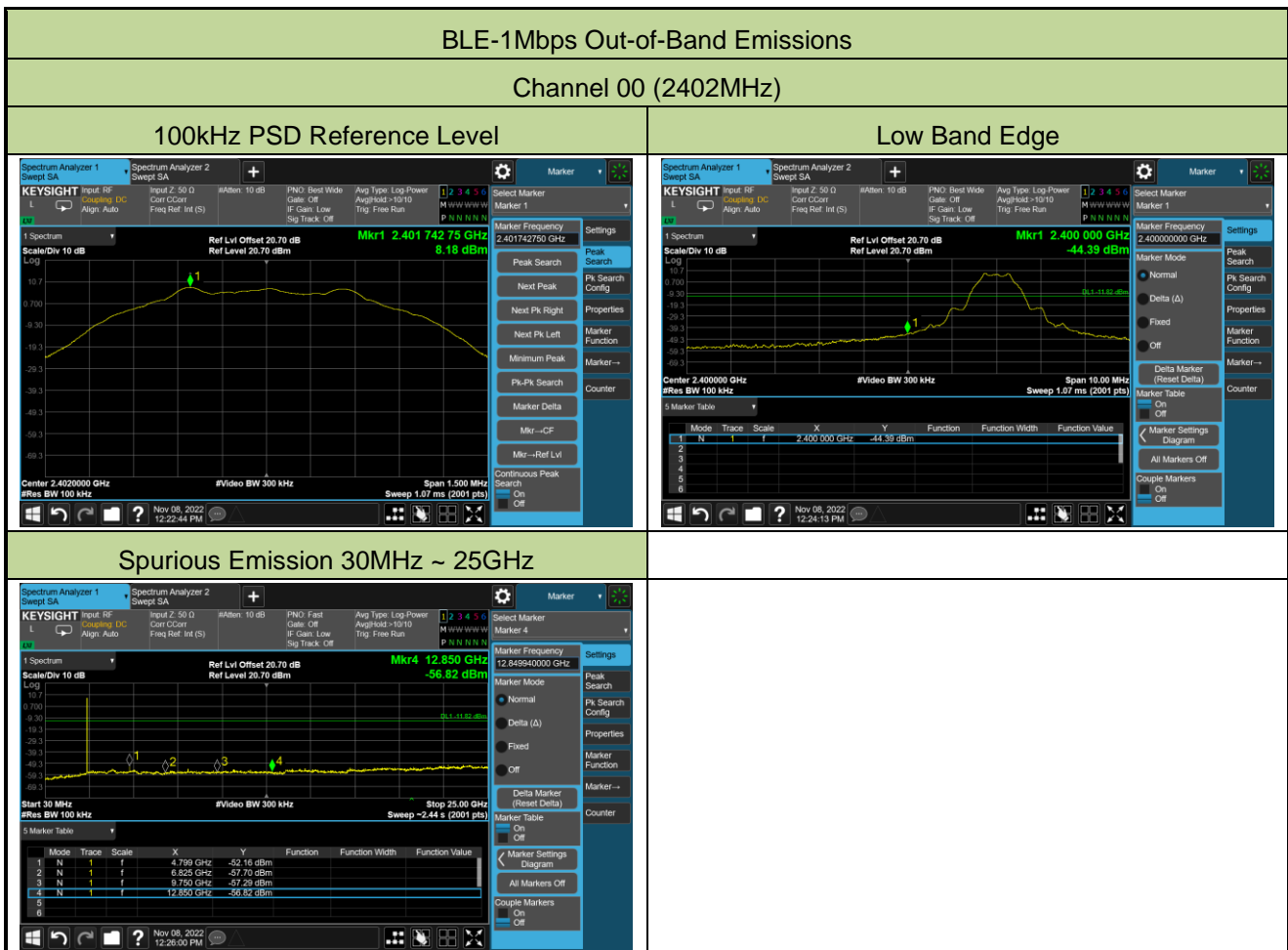
Channel 39 (2480MHz)



**A.5 Conducted Band Edge and Out-of-Band Emissions Test Result**

Test Site	SIP-TR2	Test Engineer	Alisa Deng
Test Date	2022-11-08		

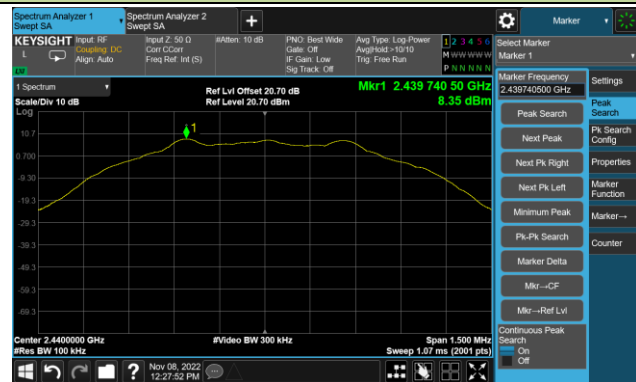
Test Mode	Data Rate / Mbps	Channel No.	Frequency (MHz)	Limit (dBc)	Result
BLE	1	00	2402	20	Pass
BLE	1	19	2440	20	Pass
BLE	1	39	2480	20	Pass
BLE	2	00	2402	20	Pass
BLE	2	19	2440	20	Pass
BLE	2	39	2480	20	Pass



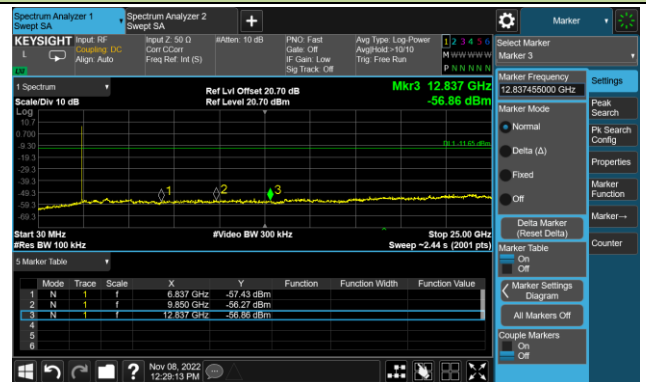


### Channel 19 (2440MHz)

#### 100kHz PSD Reference Level

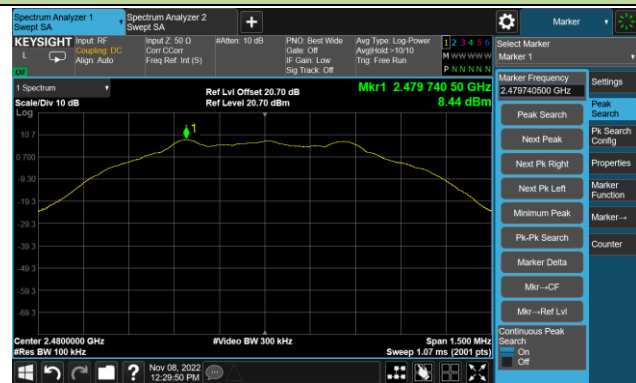


#### Spurious Emission 30MHz ~ 25GHz

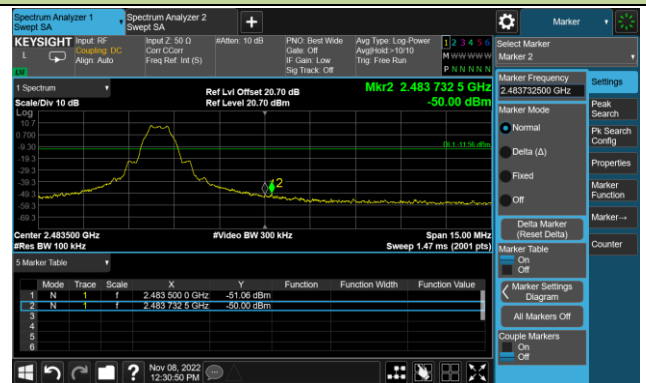


### Channel 39 (2480MHz)

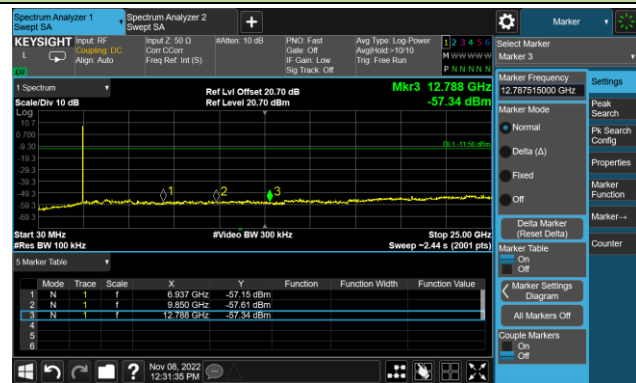
#### 100kHz PSD Reference Level



#### High Band Edge



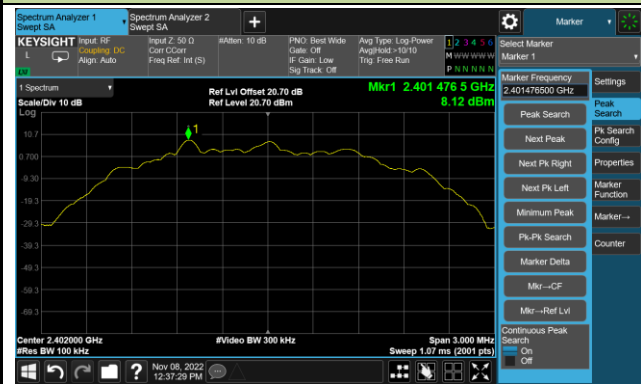
#### Spurious Emission 30MHz ~ 25GHz



## BLE-2Mbps Out-of-Band Emissions

### Channel 00 (2402MHz)

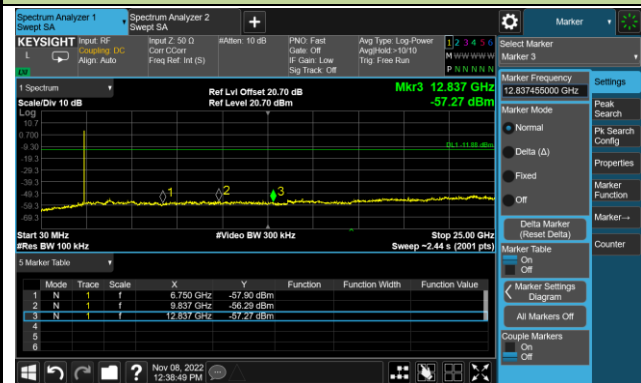
#### 100kHz PSD Reference Level



#### Low Band Edge

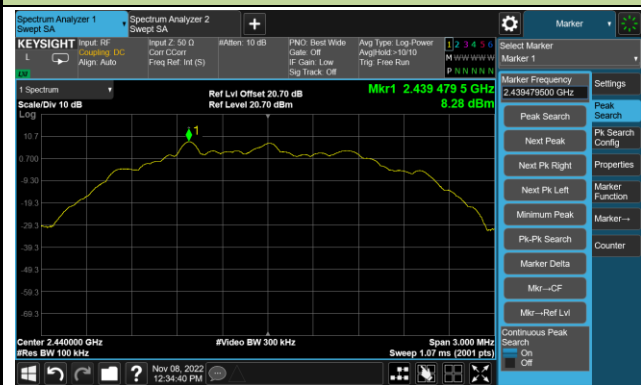


#### Spurious Emission 30MHz ~ 25GHz

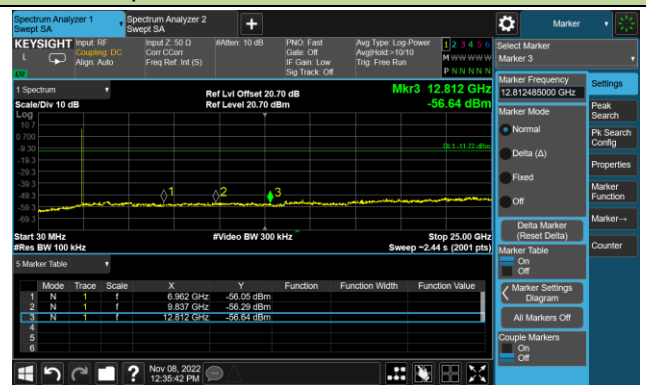


### Channel 19 (2440MHz)

#### 100kHz PSD Reference Level

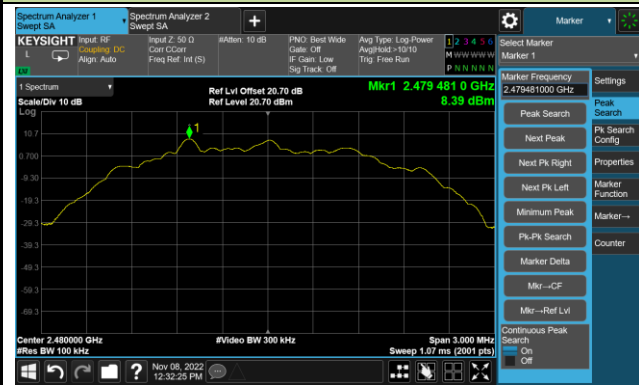


#### Spurious Emission 30MHz ~ 25GHz

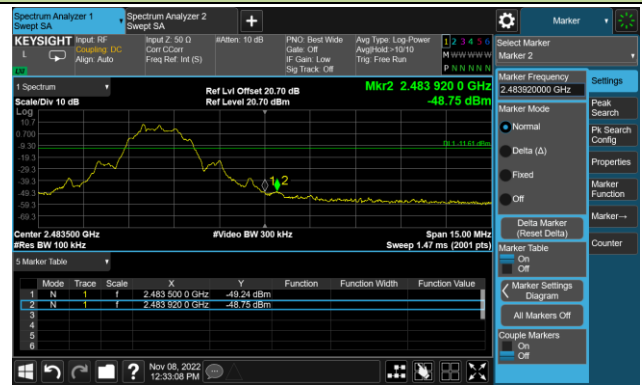


### Channel 39 (2480MHz)

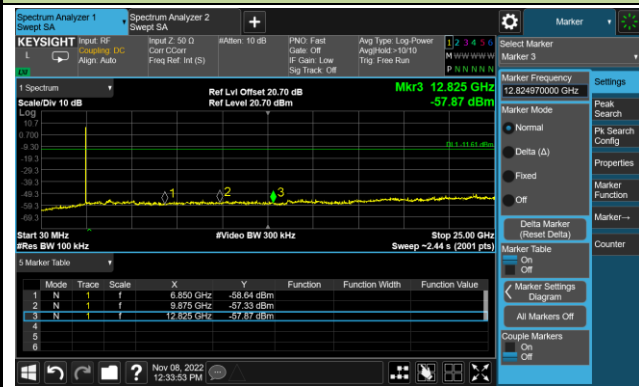
#### 100kHz PSD Reference Level



#### High Band Edge



#### Spurious Emission 30MHz ~ 25GHz



**A.6 Radiated Spurious Emission Test Result**

Test Site	SIP-AC1	Test Engineer	Yien Qian
Test Date	2022-12-09	Test Mode:	BLE-1Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB/m)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
00	4808.0	52.6	-10.0	42.6	74.0	-31.4	Peak	Horizontal
	8352.5	48.1	-5.6	42.5	74.0	-31.5	Peak	Horizontal
	11361.5	47.3	-3.6	43.7	74.0	-30.3	Peak	Horizontal
	7451.5	47.7	-6.8	40.9	74.0	-33.1	Peak	Vertical
	8242.0	47.8	-5.7	42.1	74.0	-31.9	Peak	Vertical
	11540.0	46.7	-4.0	42.7	74.0	-31.3	Peak	Vertical
19	8369.5	48.0	-5.5	42.5	74.0	-31.5	Peak	Horizontal
	11973.5	46.8	-3.6	43.2	74.0	-30.8	Peak	Horizontal
	15926.0	44.3	3.5	47.8	74.0	-26.2	Peak	Horizontal
	7698.0	47.6	-6.3	41.3	74.0	-32.7	Peak	Vertical
	8208.0	48.3	-5.8	42.5	74.0	-31.5	Peak	Vertical
	10970.5	47.9	-4.4	43.5	74.0	-30.5	Peak	Vertical
39	8378.0	47.4	-5.5	41.9	74.0	-32.1	Peak	Horizontal
	11523.0	47.2	-3.9	43.3	74.0	-30.7	Peak	Horizontal
	15679.5	44.3	2.1	46.4	74.0	-27.6	Peak	Horizontal
	7715.0	47.6	-6.4	41.2	74.0	-32.8	Peak	Vertical
	8191.0	48.1	-5.6	42.5	74.0	-31.5	Peak	Vertical
	11616.5	46.7	-3.9	42.8	74.0	-31.2	Peak	Vertical

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Test Site	SIP-AC1	Test Engineer	Yien Qian
Test Date	2022-12-09	Test Mode:	BLE-2Mbps
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

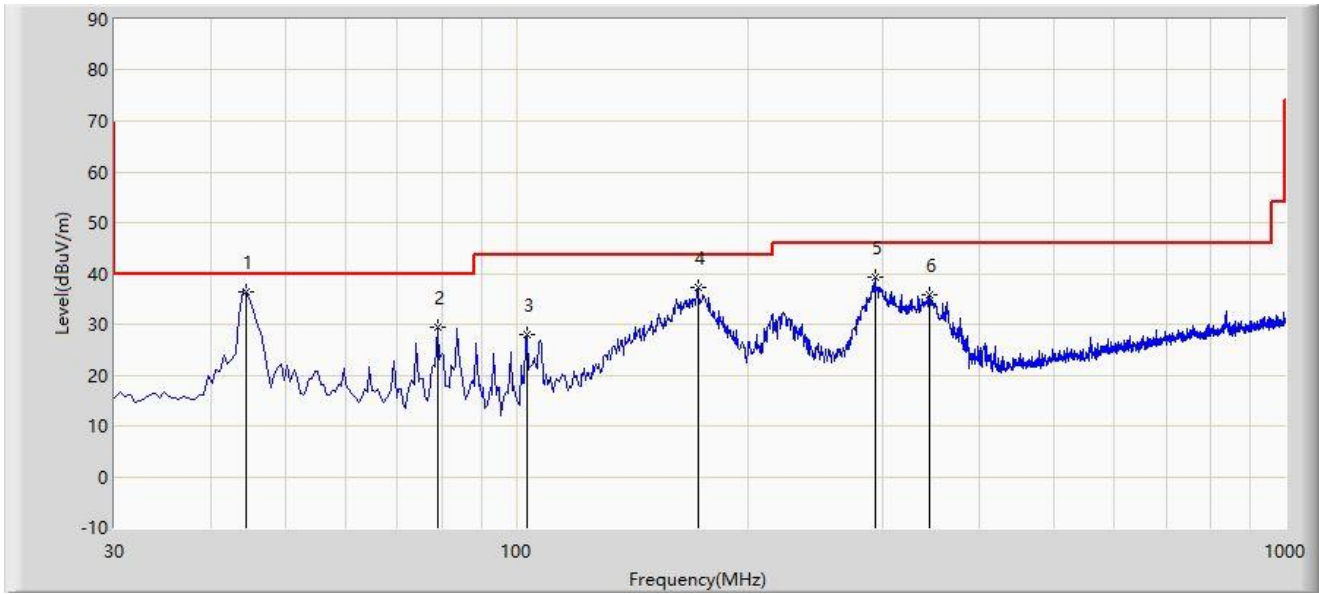
Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
00	7468.5	48.5	-6.8	41.7	74.0	-32.3	Peak	Horizontal
	8361.0	47.9	-5.5	42.4	74.0	-31.6	Peak	Horizontal
	11888.5	46.9	-3.6	43.3	74.0	-30.7	Peak	Horizontal
	8225.0	47.5	-5.7	41.8	74.0	-32.2	Peak	Vertical
	11285.0	47.3	-4.0	43.3	74.0	-30.7	Peak	Vertical
	15594.5	44.1	2.4	46.5	74.0	-27.5	Peak	Vertical
19	7400.5	48.5	-7.0	41.5	74.0	-32.5	Peak	Horizontal
	8191.0	47.6	-5.6	42.0	74.0	-32.0	Peak	Horizontal
	12449.5	46.2	-3.0	43.2	74.0	-30.8	Peak	Horizontal
	7664.0	48.2	-6.8	41.4	74.0	-32.6	Peak	Vertical
	11897.0	46.5	-3.5	43.0	74.0	-31.0	Peak	Vertical
	15586.0	44.0	2.8	46.8	74.0	-27.2	Peak	Vertical
39	8259.0	48.5	-5.5	43.0	74.0	-31.0	Peak	Horizontal
	12135.0	46.7	-3.6	43.1	74.0	-30.9	Peak	Horizontal
	15586.0	43.3	2.8	46.1	74.0	-27.9	Peak	Horizontal
	8182.5	48.0	-5.8	42.2	74.0	-31.8	Peak	Vertical
	11361.5	46.3	-3.6	42.7	74.0	-31.3	Peak	Vertical
	15577.5	44.2	2.6	46.8	74.0	-27.2	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

**The Result of Radiated Emission below 1GHz:**

Site: SIP-AC3	Test Date: 2022-12-12
Limit: FCC_Part15.209_RSE(3m)	Engineer: Wayne Wang
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
<b>Test Mode:</b> Transmit by BLE 1M at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	44.550	36.435	18.450	-3.565	40.000	17.985	PK
2		78.985	29.484	15.886	-10.516	40.000	13.598	PK
3		103.235	27.836	13.980	-15.664	43.500	13.857	PK
4		172.105	37.277	19.924	-6.223	43.500	17.353	PK
5		292.870	39.223	20.971	-6.777	46.000	18.252	PK
6		345.250	35.788	16.329	-10.212	46.000	19.459	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

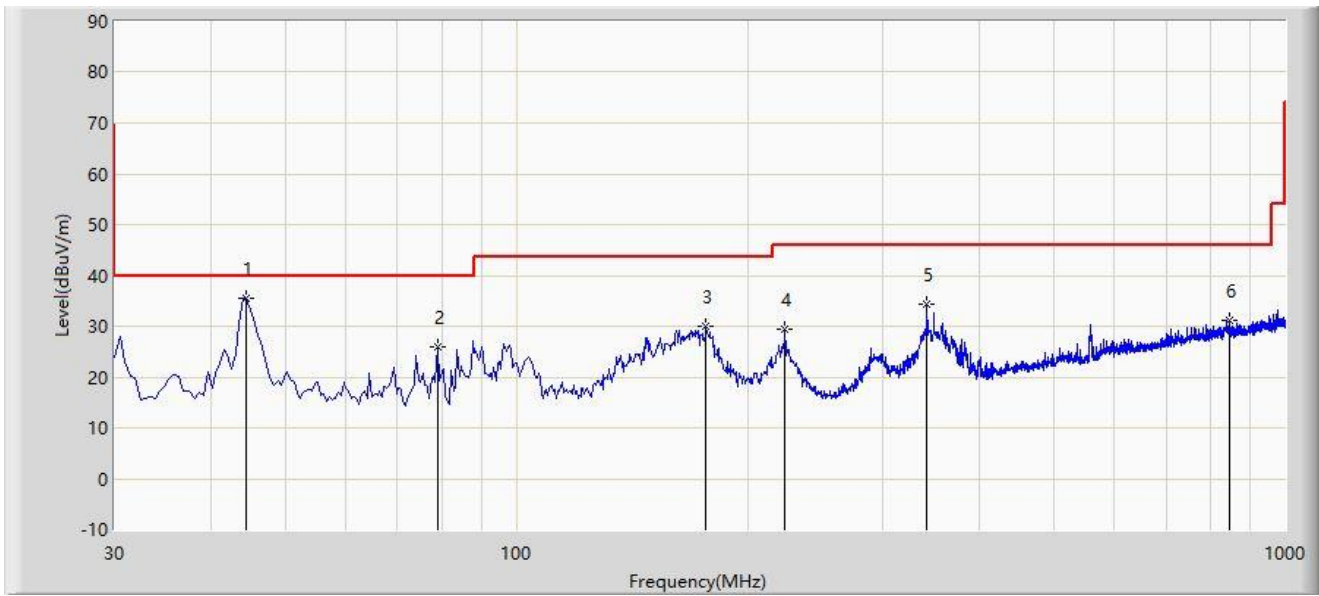
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

Site: SIP-AC3	Test Date: 2022-12-12
Limit: FCC_Part15.209_RSE(3m)	Engineer: Wayne Wang
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Note: Transmit by BLE 1M at 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	44.550	35.601	17.616	-4.399	40.000	17.985	PK
2		78.985	25.942	12.344	-14.058	40.000	13.598	PK
3		176.470	29.884	12.983	-13.616	43.500	16.901	PK
4		223.515	29.391	14.647	-16.609	46.000	14.744	PK
5		342.340	34.401	14.928	-11.599	46.000	19.473	PK
6		844.800	31.159	2.244	-14.841	46.000	28.915	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

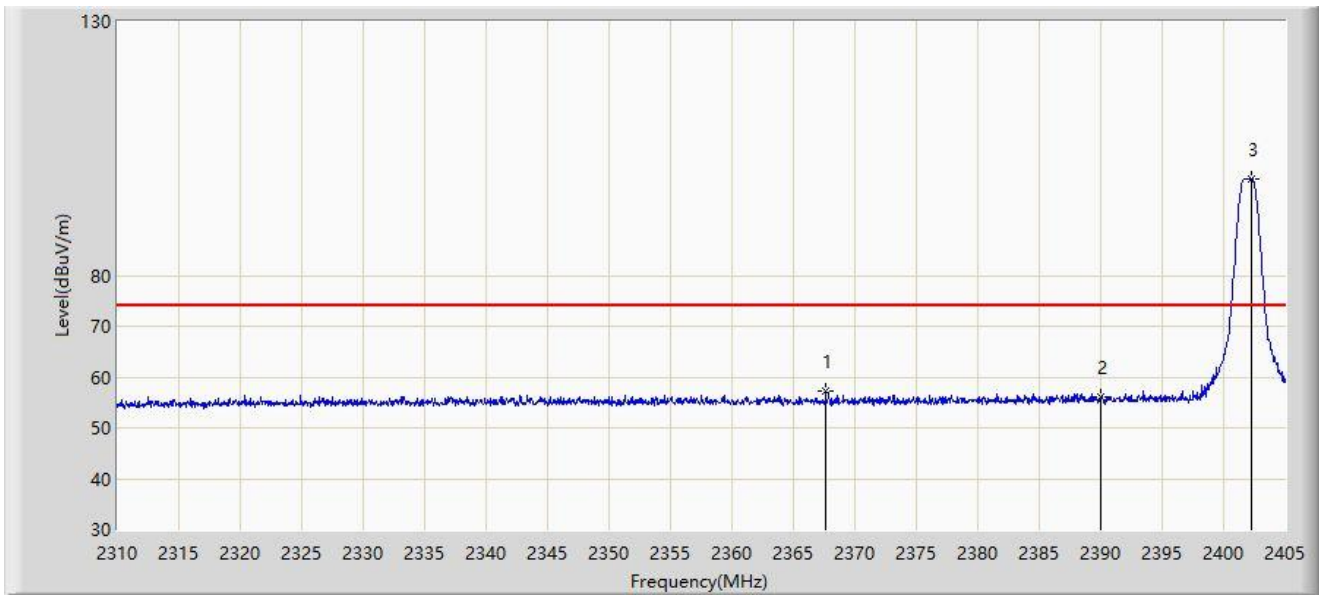
Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Note 5: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value.

Therefore, the data is not presented in the report.

### A.7 Radiated Restricted Band Edge Test Result

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 1M	



No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2367.617	57.129	25.860	-16.871	74.000	31.269	PK
2		2390.000	55.963	24.451	-18.037	74.000	31.512	PK
3		2402.245	99.121	67.506	N/A	N/A	31.615	PK

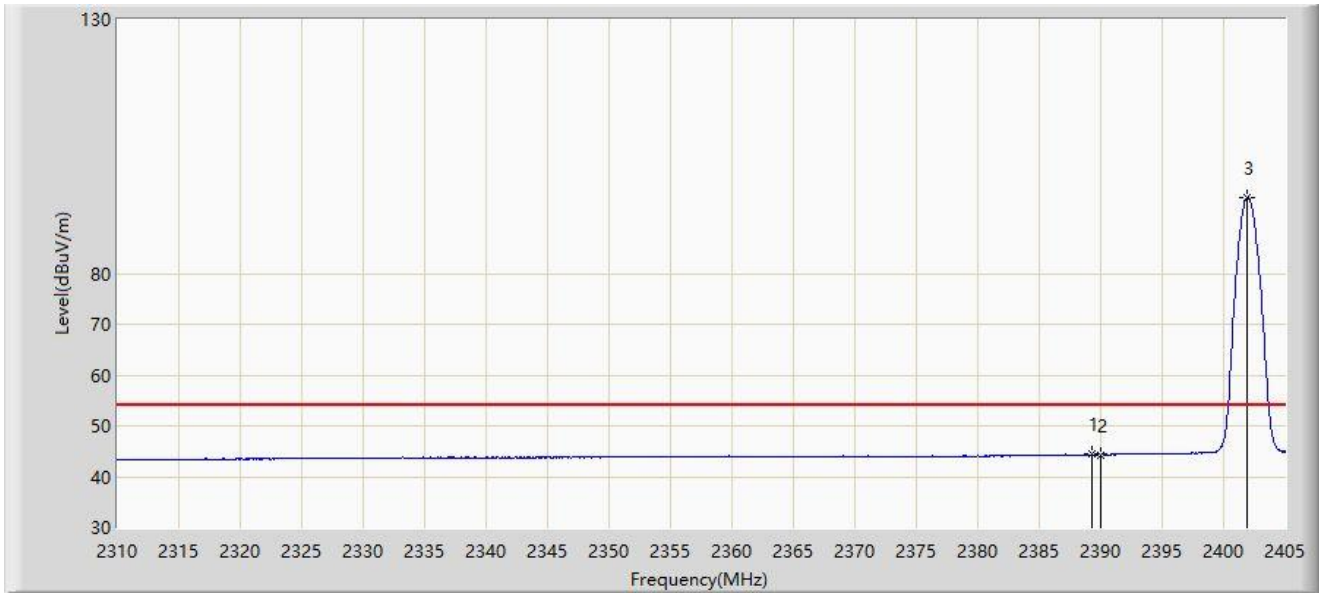
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 1M	



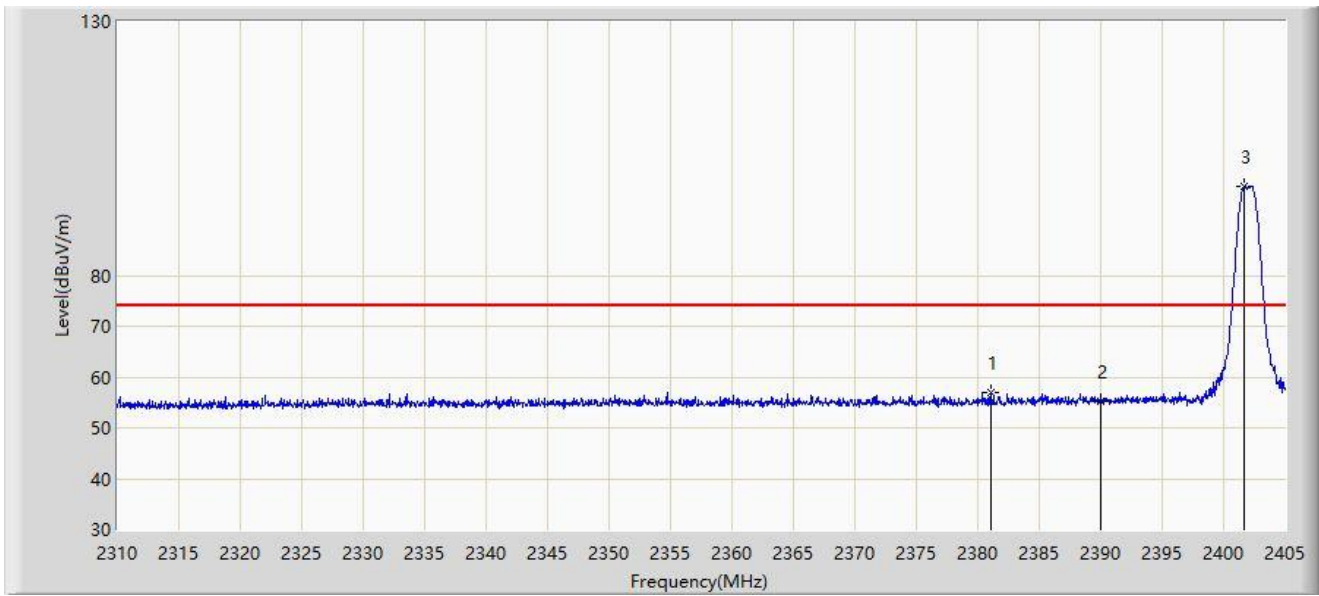
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2389.278	44.362	12.865	-9.638	54.000	31.497	AV
2		2390.000	44.337	12.825	-9.663	54.000	31.512	AV
3		2401.865	94.846	63.232	N/A	N/A	31.614	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 1M	



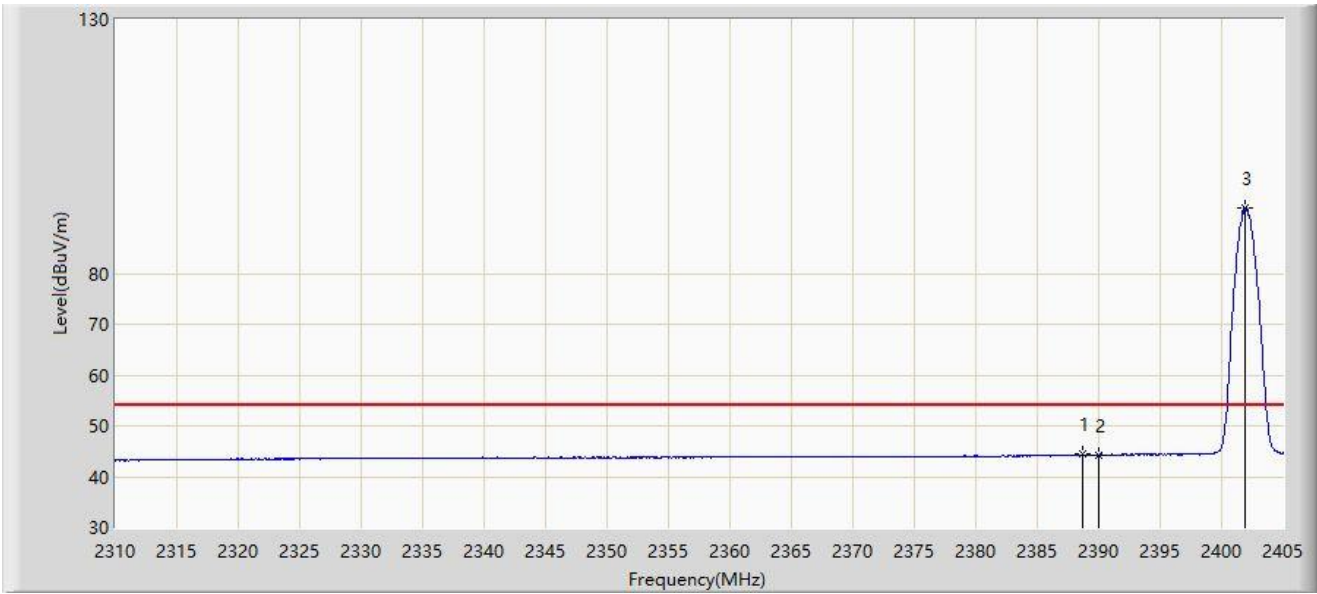
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2381.012	57.076	25.752	-16.924	74.000	31.324	PK
2		2390.000	55.073	23.561	-18.927	74.000	31.512	PK
3		2401.722	97.508	65.894	N/A	N/A	31.614	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 1M	



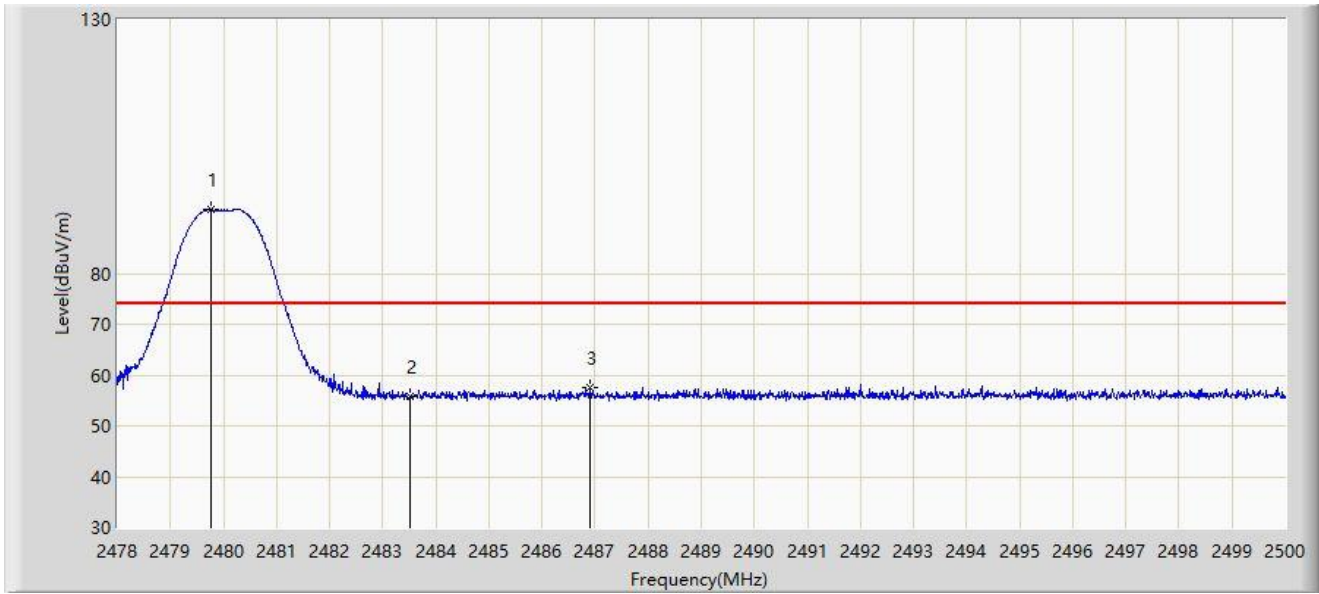
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2388.708	44.383	12.898	-9.617	54.000	31.485	AV
2		2390.000	44.262	12.750	-9.738	54.000	31.512	AV
3		2401.865	92.940	61.326	N/A	N/A	31.614	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 1M	



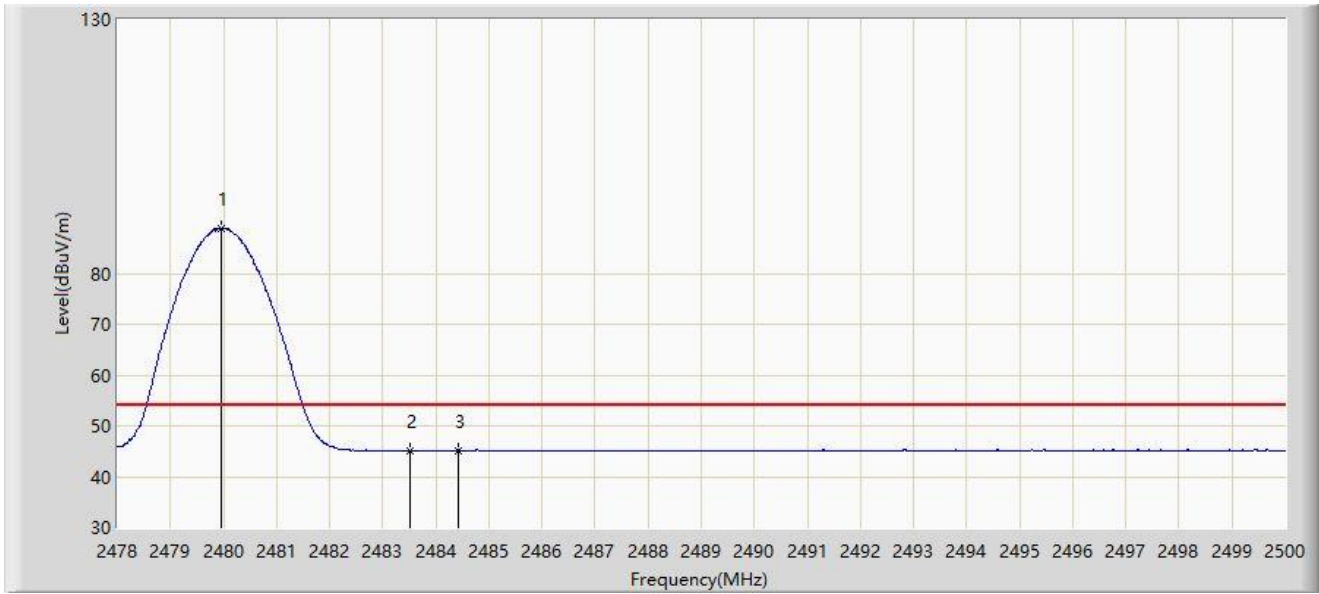
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2479.771	92.503	60.559	N/A	N/A	31.944	PK
2		2483.500	55.801	23.849	-18.199	74.000	31.952	PK
3	*	2486.910	57.591	25.633	-16.409	74.000	31.959	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 1M	



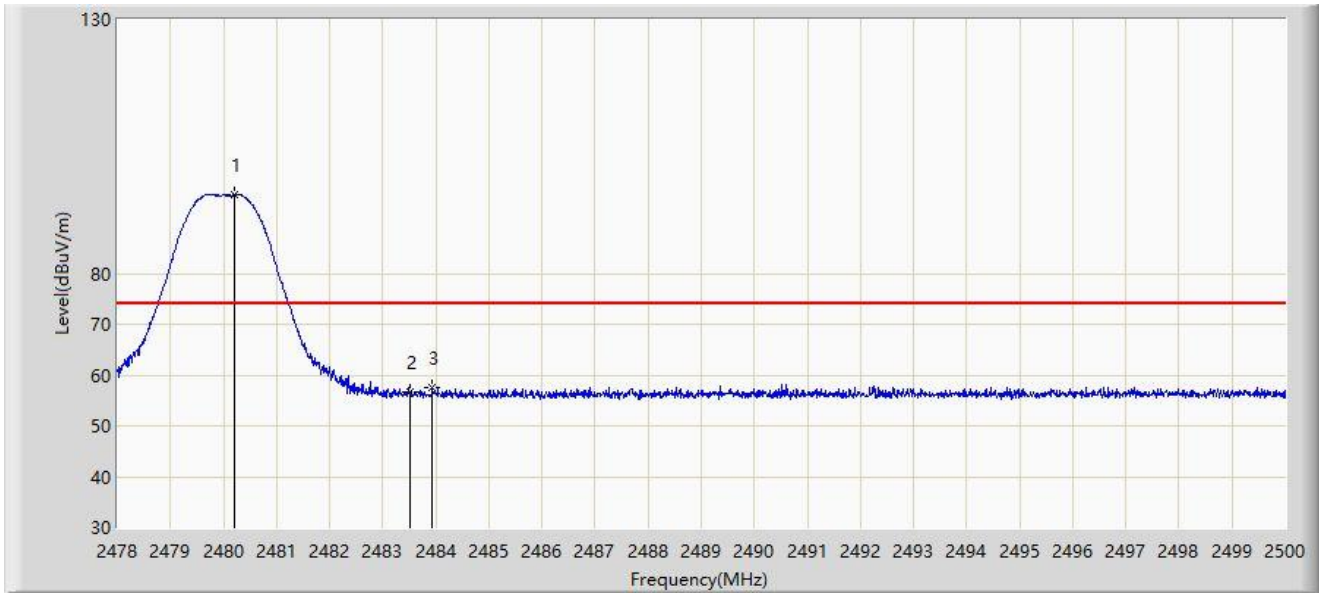
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2479.969	88.978	57.034	N/A	N/A	31.945	AV
2		2483.500	45.034	13.082	-8.966	54.000	31.952	AV
3	*	2484.435	45.208	13.255	-8.792	54.000	31.953	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 1M	



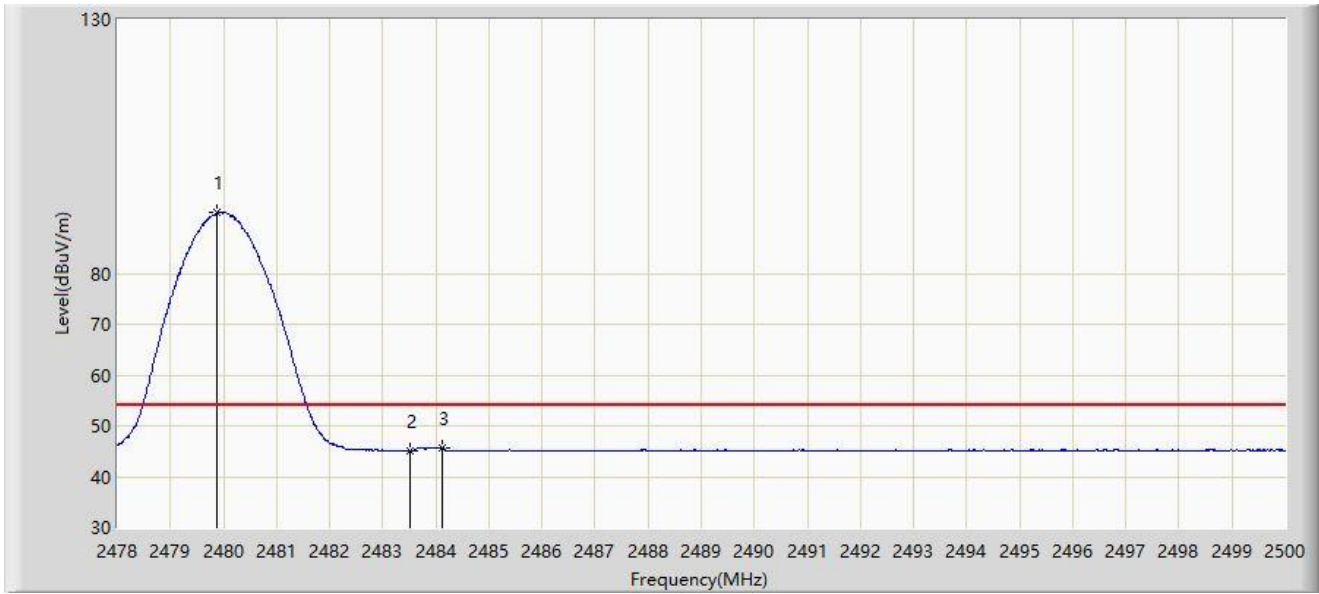
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2480.211	95.426	63.481	N/A	N/A	31.945	PK
2		2483.500	56.586	24.634	-17.414	74.000	31.952	PK
3	*	2483.929	57.505	25.553	-16.495	74.000	31.953	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 1M	



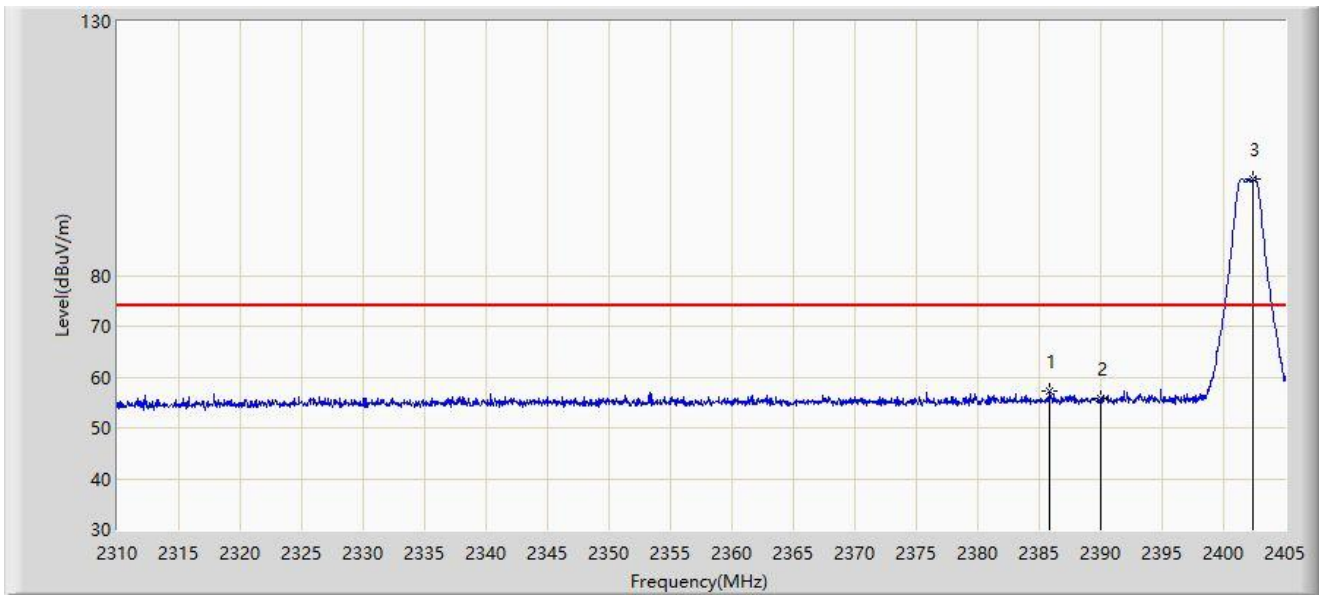
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.881	91.976	60.032	N/A	N/A	31.944	AV
2		2483.500	45.084	13.132	-8.916	54.000	31.952	AV
3	*	2484.116	45.734	13.781	-8.266	54.000	31.953	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 2M	



No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2385.857	57.166	25.741	-16.834	74.000	31.425	PK
2		2390.000	55.730	24.218	-18.270	74.000	31.512	PK
3		2402.435	99.100	67.485	N/A	N/A	31.615	PK

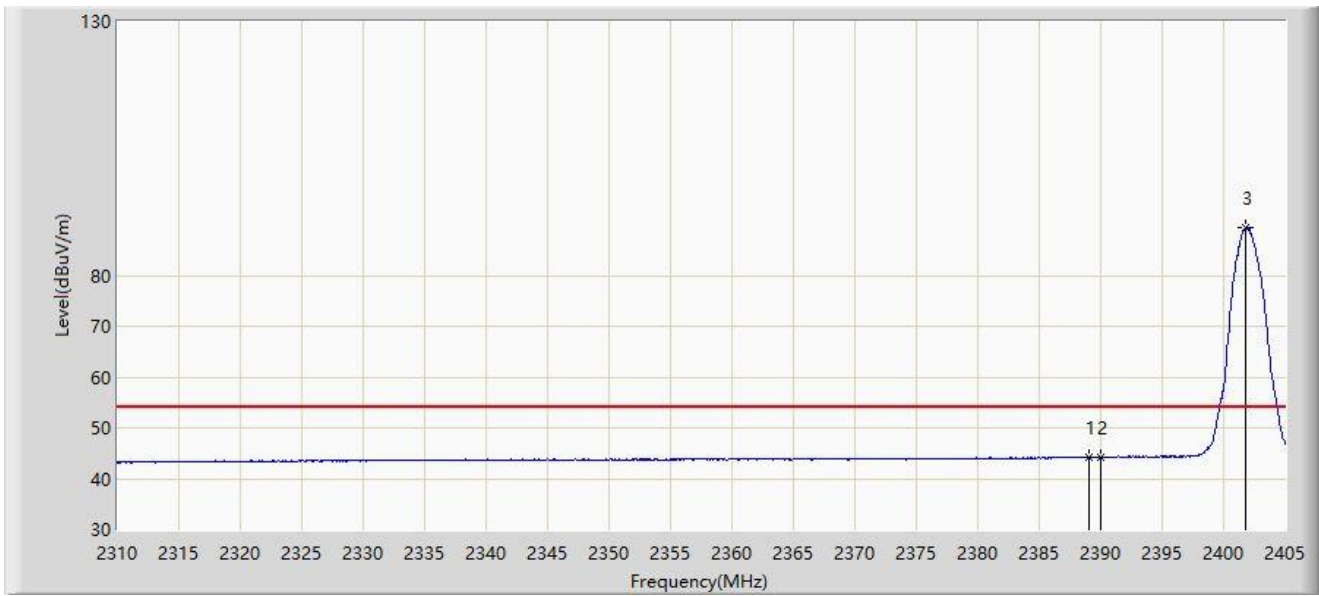
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).



Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 2M	



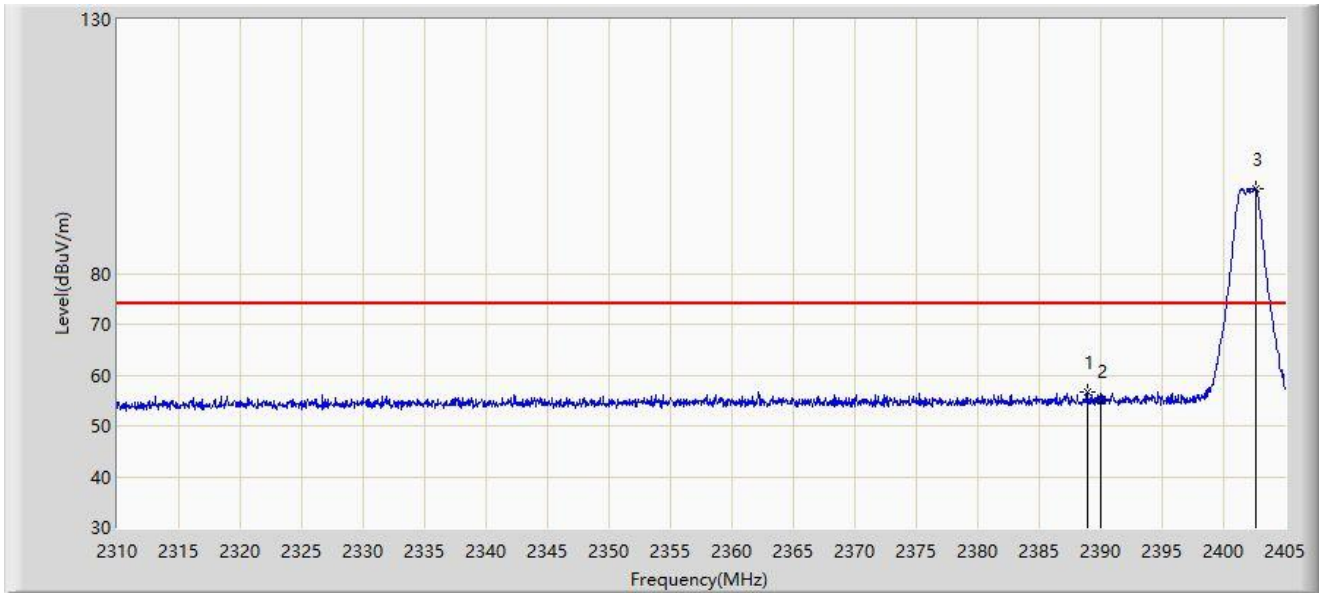
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2389.087	44.327	12.834	-9.673	54.000	31.494	AV
2		2390.000	44.184	12.672	-9.816	54.000	31.512	AV
3		2401.817	89.520	57.906	N/A	N/A	31.614	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 2M	



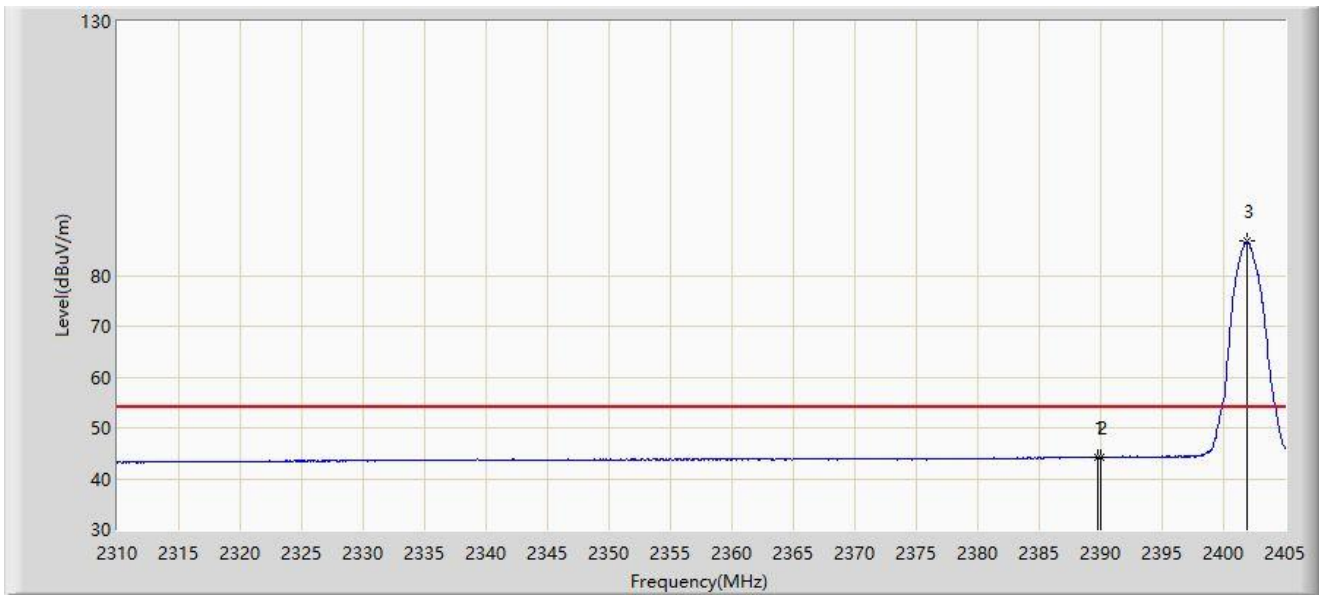
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2388.897	56.554	25.065	-17.446	74.000	31.490	PK
2		2390.000	54.954	23.442	-19.046	74.000	31.512	PK
3		2402.577	96.633	65.017	N/A	N/A	31.615	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2402MHz by BLE 2M	



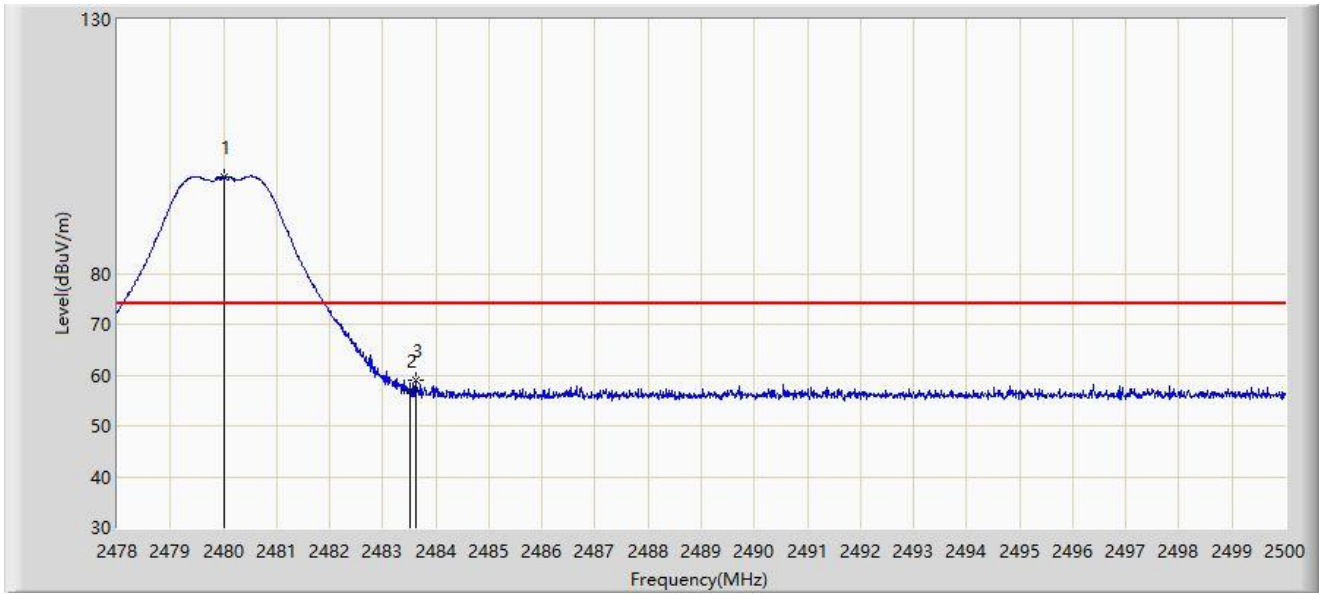
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1	*	2389.800	44.247	12.739	-9.753	54.000	31.508	AV
2		2390.000	44.174	12.662	-9.826	54.000	31.512	AV
3		2401.865	86.713	55.099	N/A	N/A	31.614	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 2M	



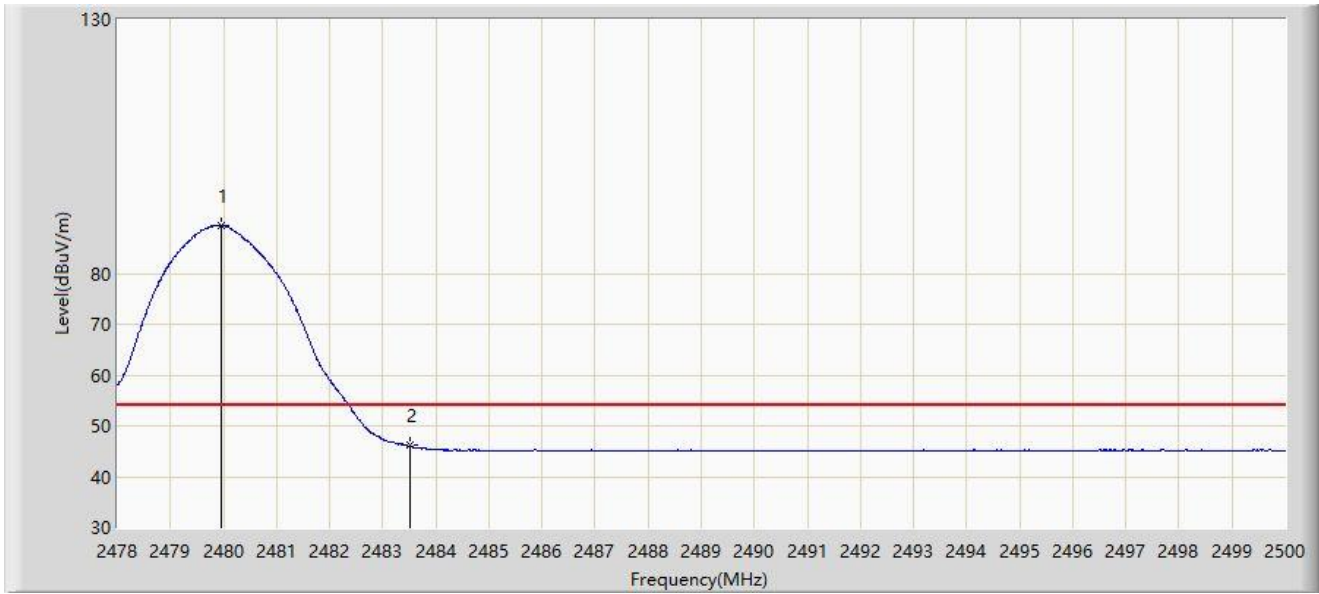
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2480.002	99.083	67.138	N/A	N/A	31.945	PK
2		2483.500	56.904	24.952	-17.096	74.000	31.952	PK
3	*	2483.632	59.020	27.068	-14.980	74.000	31.952	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Horizontal
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 2M	



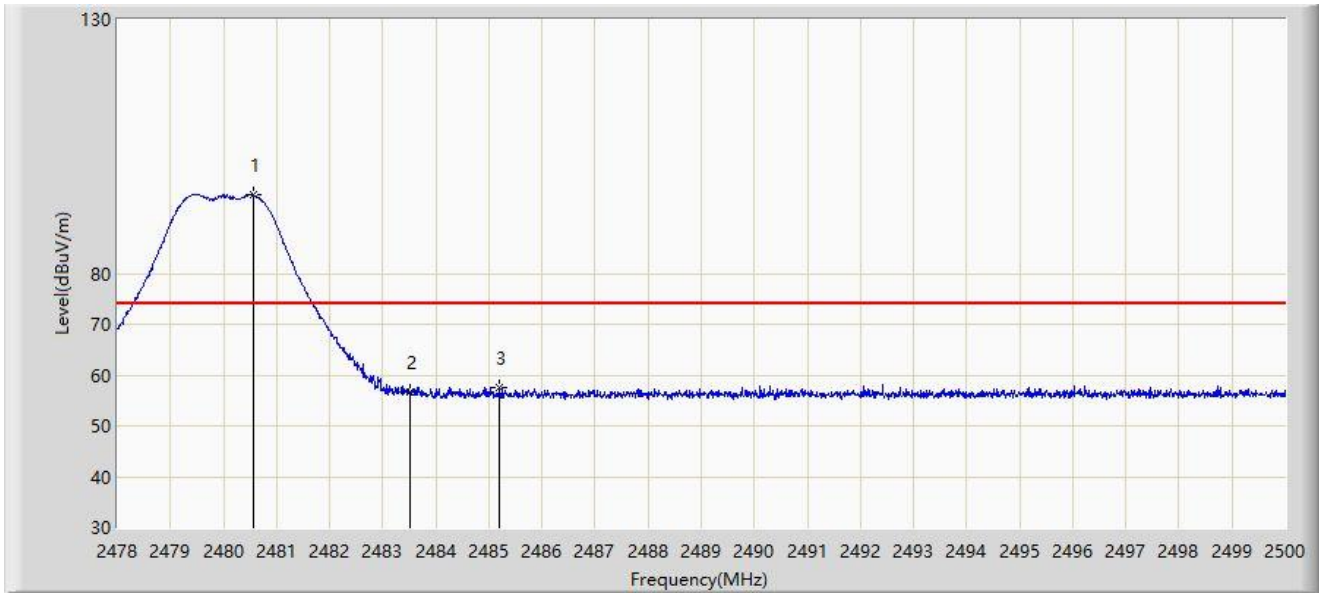
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2479.958	89.484	57.540	N/A	N/A	31.945	AV
2	*	2483.500	46.111	14.159	-7.889	54.000	31.952	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 2M	



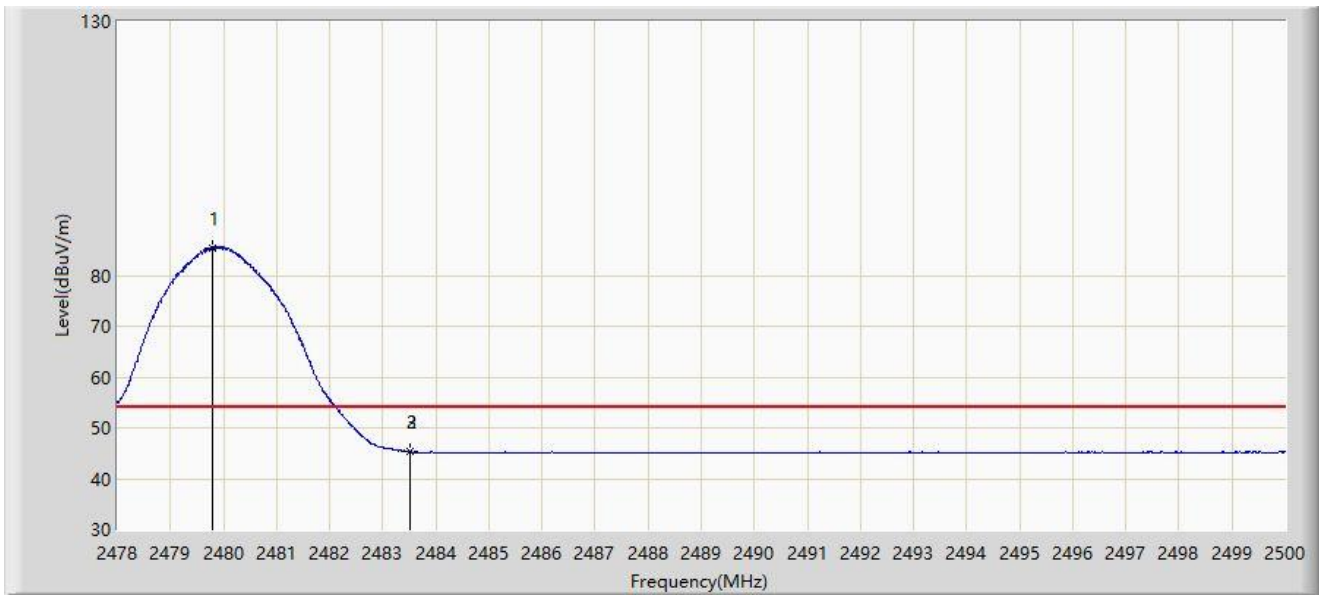
No	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB/m)	Type
1		2480.563	95.382	63.436	N/A	N/A	31.946	PK
2		2483.500	56.606	24.654	-17.394	74.000	31.952	PK
3	*	2485.205	57.572	25.617	-16.428	74.000	31.955	PK

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2022-12-09
Limit: FCC_Part15.209_RSE(3m)	Engineer: Yien Qian
Probe: HF907_102862_1-18GHz	Polarity: Vertical
EUT: Bluetooth Stereo Headset	Power: By Battery
Test Mode: Transmit at 2480MHz by BLE 2M	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2479.804	85.495	53.551	N/A	N/A	31.944	AV
2		2483.500	45.341	13.389	-8.659	54.000	31.952	AV
3	*	2483.522	45.400	13.448	-8.600	54.000	31.952	AV

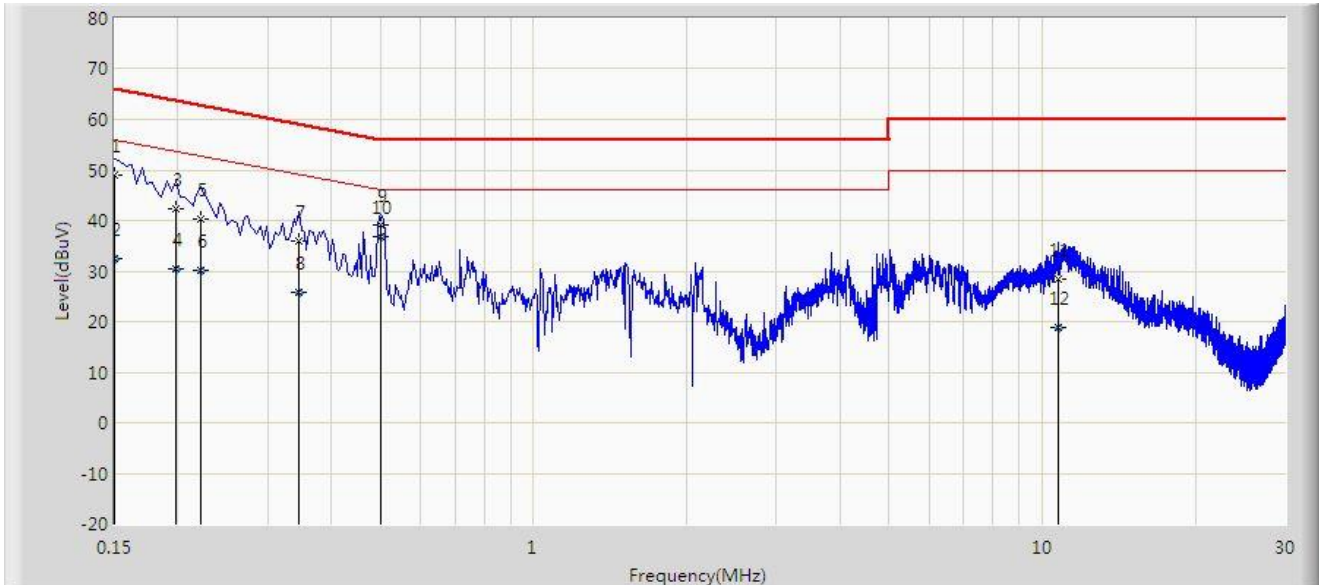
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

**A.8 AC Conducted Emissions Test Result**

Site: SIP-SR2	Test Date: 2022-12-13
Temperature: 19.3°C	Humidity: 30.9%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Miron Ding
Probe: SIP-SR2-ENV216_101684_C	Polarity: Line
EUT: Bluetooth Stereo Headset	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by BLE 1M at channel 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.150	48.893	39.252	-17.107	66.000	9.641	QP
2		0.150	32.451	22.809	-23.549	56.000	9.641	AV
3		0.198	42.199	32.534	-21.495	63.694	9.664	QP
4		0.198	30.367	20.703	-23.327	53.694	9.664	AV
5		0.222	40.170	30.482	-22.574	62.744	9.688	QP
6		0.222	30.067	20.378	-22.677	52.744	9.688	AV
7		0.346	35.983	26.269	-23.075	59.058	9.714	QP
8		0.346	25.826	16.112	-23.232	49.058	9.714	AV
9		0.502	39.142	29.422	-16.858	56.000	9.720	QP
10	*	0.502	36.895	27.175	-9.105	46.000	9.720	AV
11		10.738	28.455	18.365	-31.545	60.000	10.090	QP
12		10.738	18.812	8.722	-31.188	50.000	10.090	AV

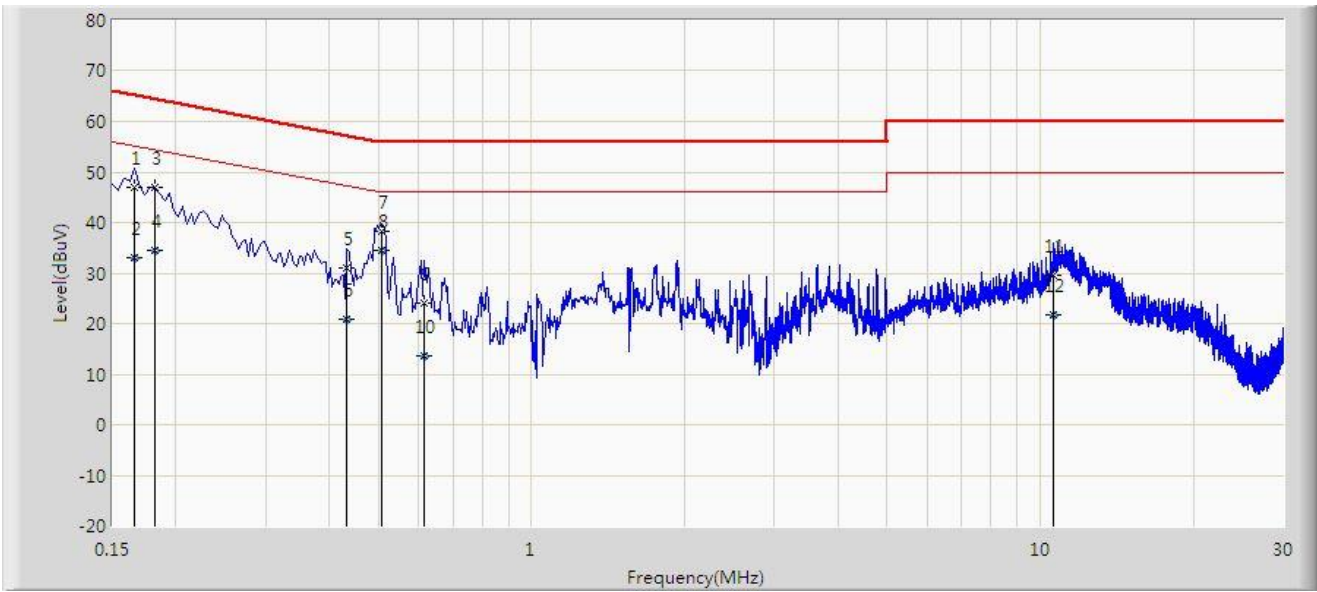
Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).



Site: SIP-SR2	Test Date: 2022-12-13
Temperature: 19.3°C	Humidity: 30.9%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Miron Ding
Probe: SIP-SR2-ENV216_101684_C	Polarity: Neutral
EUT: Bluetooth Stereo Headset	Power: AC 120V/60Hz
<b>Test Mode:</b> Transmit by BLE 1M at channel 2480MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.166	47.080	37.393	-18.078	65.158	9.687	QP
2		0.166	32.998	23.311	-22.160	55.158	9.687	AV
3		0.182	47.094	37.408	-17.300	64.394	9.686	QP
4		0.182	34.611	24.925	-19.783	54.394	9.686	AV
5		0.434	30.923	21.171	-26.253	57.176	9.752	QP
6		0.434	20.821	11.069	-26.355	47.176	9.752	AV
7		0.506	38.220	28.470	-17.780	56.000	9.750	QP
8	*	0.506	34.635	24.885	-11.365	46.000	9.750	AV
9		0.614	24.158	14.408	-31.842	56.000	9.750	QP
10		0.614	13.655	3.905	-32.345	46.000	9.750	AV
11		10.638	29.515	19.372	-30.485	60.000	10.143	QP
12		10.638	21.673	11.530	-28.327	50.000	10.143	AV

Note 1: " \* ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

## **Appendix B - Test Setup Photograph**

Refer to "2211RSU003-UT" file.

## Appendix C - EUT Photograph

Refer to "2211RSU003-UE" file.

\_\_\_\_\_ The End \_\_\_\_\_