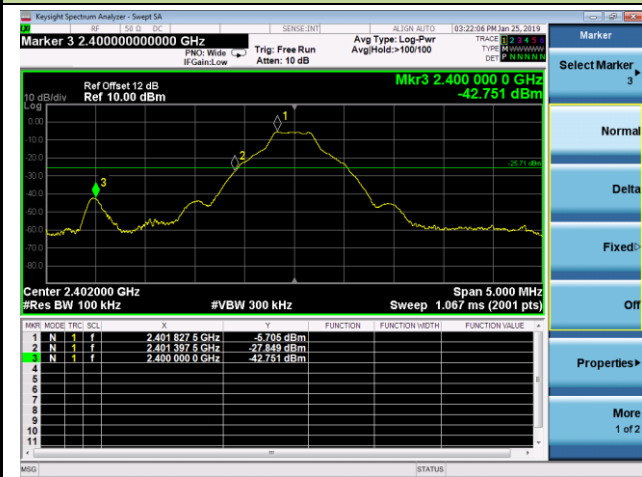
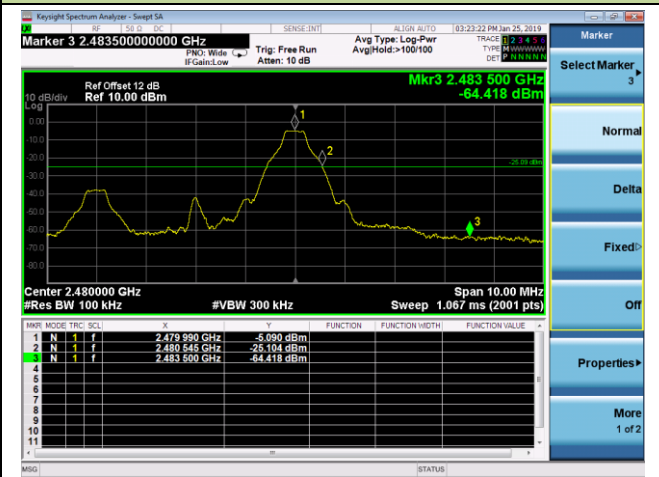


## Band-edge Compliance

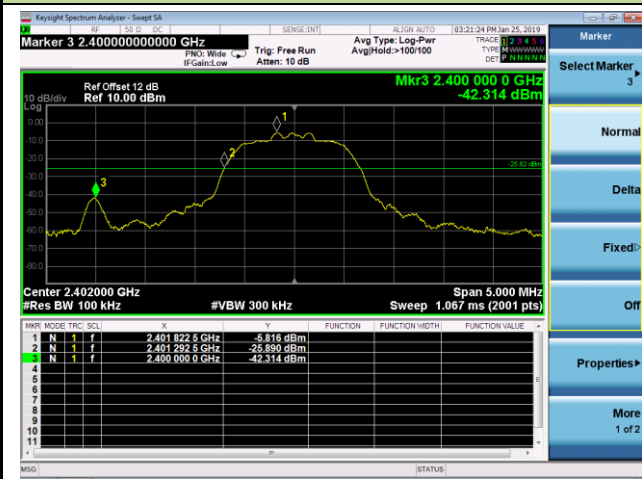
DH5 - Channel 00 (2402MHz)



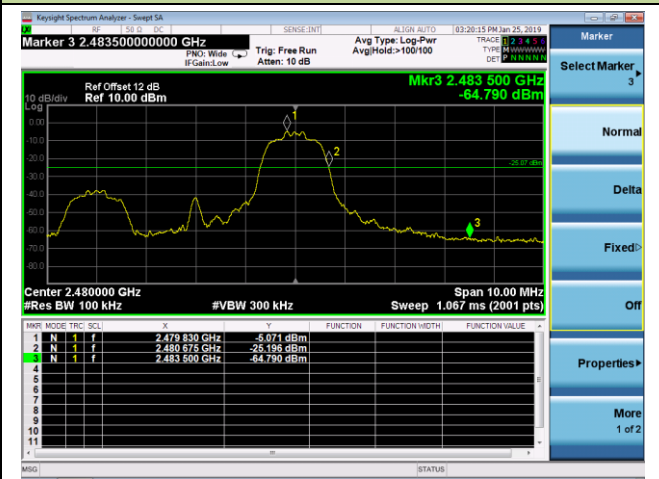
DH5 - Channel 78 (2480MHz)



2DH5 - Channel 00 (2402MHz)

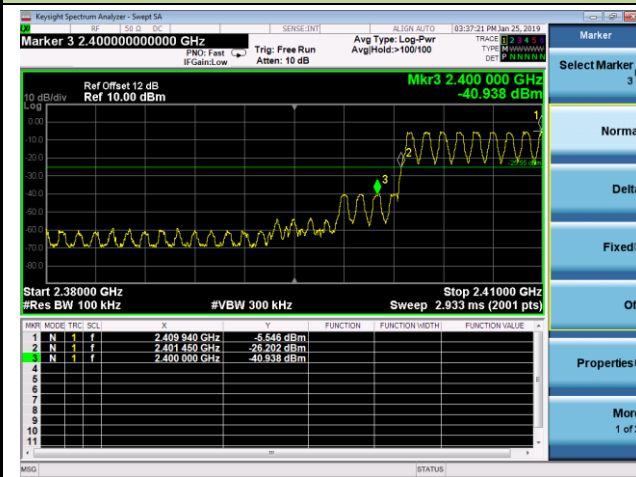


2DH5 - Channel 78 (2480MHz)

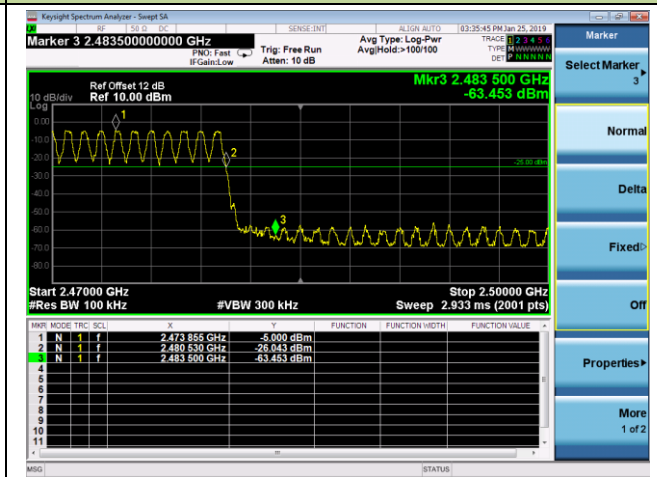


Operation Frequency Range of 20dB Bandwidth within Hopping Mode

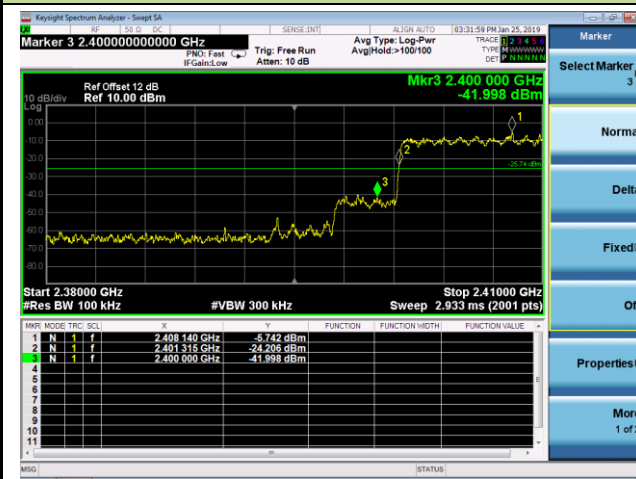
DH5 - Channel 00 (2402MHz)



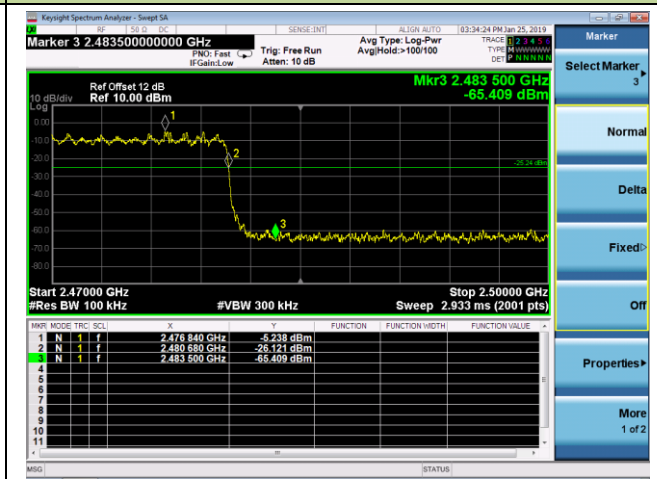
DH5 - Channel 78 (2480MHz)



2DH5 - Channel 00 (2402MHz)



2DH5 - Channel 78 (2480MHz)



## **7.8. Conducted Spurious Emissions Measurement**

### **7.8.1. Test Limit**

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 or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

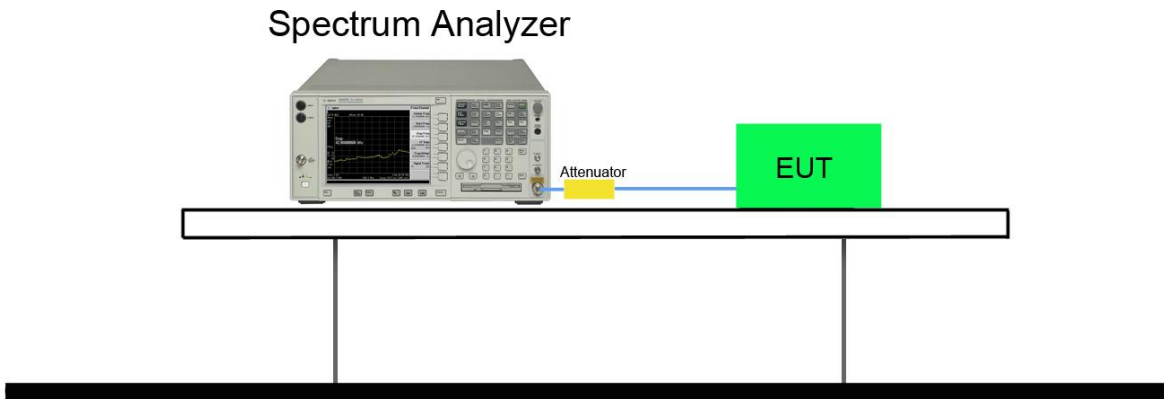
### **7.8.2. Test Procedure Used**

ANSI C63.10-2013 - Section 7.8.8

### **7.8.3. Test Setting**

1. Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
2. RBW = 100 KHz
3. VBW  $\geq$  RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize
8. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

### 7.8.4. Test Setup



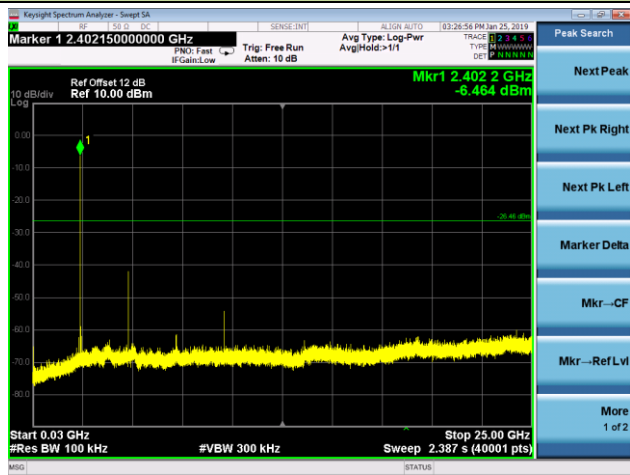
**7.8.5. Test Result**

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Flag Yang	Relative Humidity	56%
Test Site	TR3	Test Date	2019/01/25

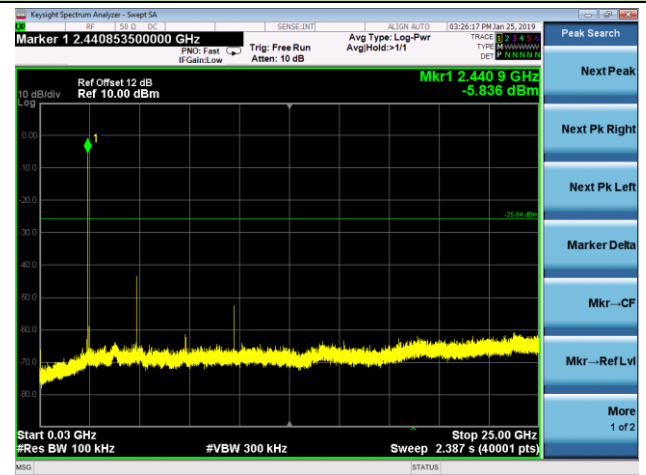
Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
2DH5	00	2402	20dBc	Pass
2DH5	39	2441	20dBc	Pass
2DH5	78	2480	20dBc	Pass

### DH5 Conducted Spurious Emissions

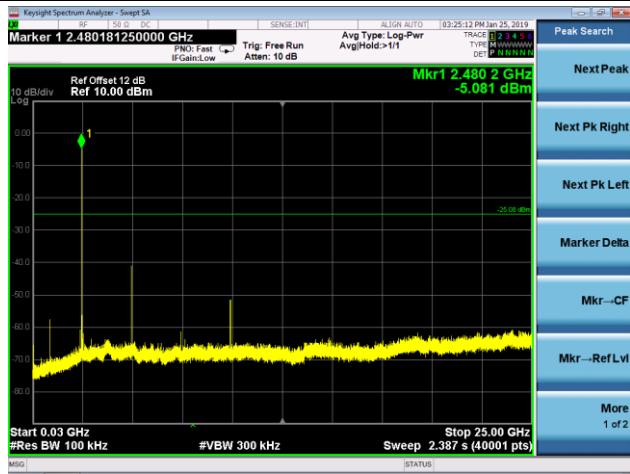
Channel 00 (2402MHz)



Channel 39 (2441MHz)

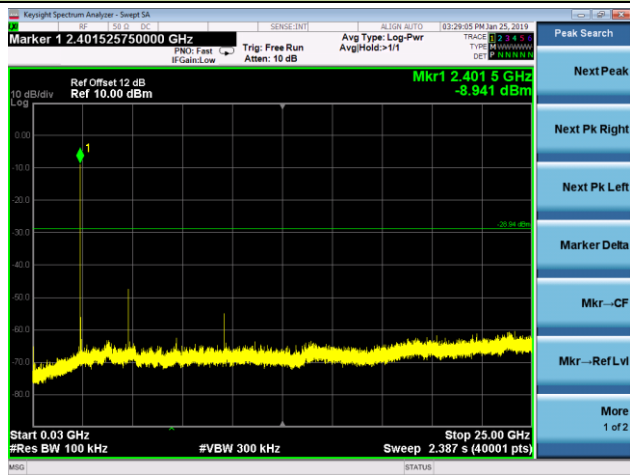


Channel 78 (2480MHz)

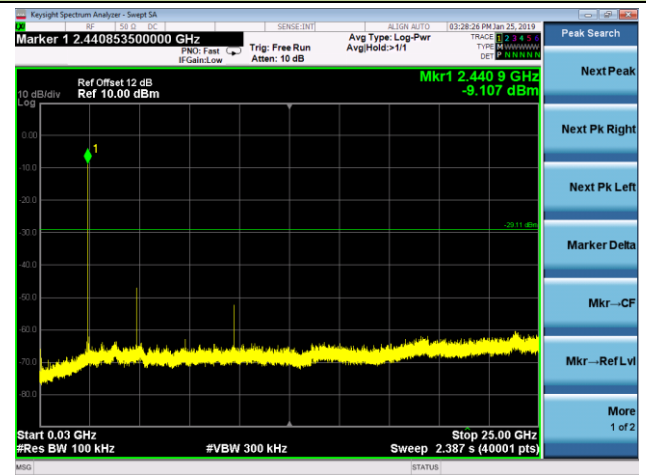


## 2DH5 Conducted Spurious Emissions

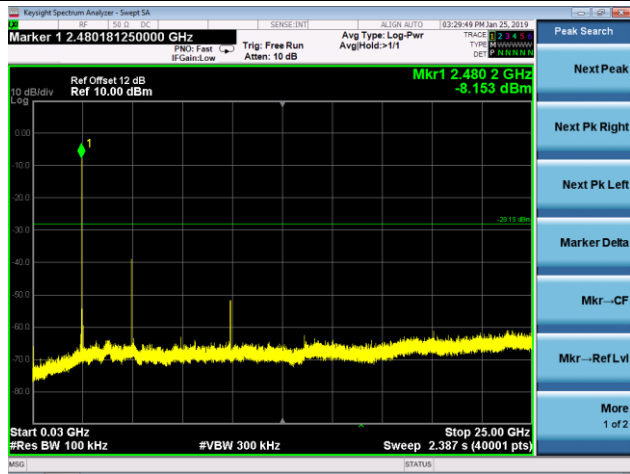
### Channel 00 (2402MHz)



### Channel 39 (2441MHz)



### Channel 78 (2480MHz)



## 7.9. Radiated Spurious Emission Measurement

### 7.9.1. 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 [ $\mu\text{V}/\text{m}$ ]	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

### 7.9.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

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

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

### 7.9.3. 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
> 1000 MHz	1 MHz



**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**

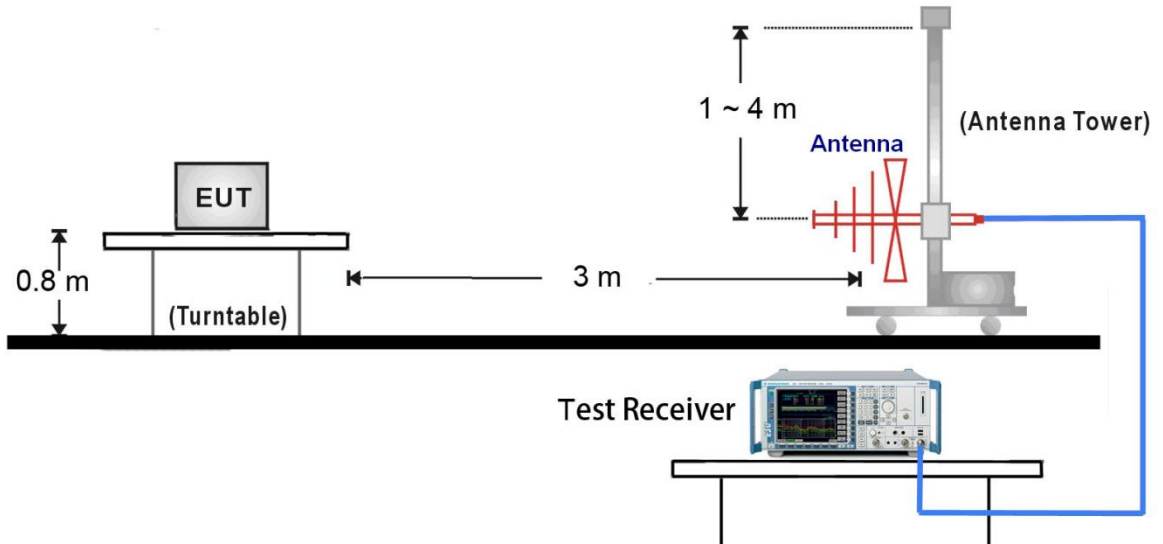
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

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

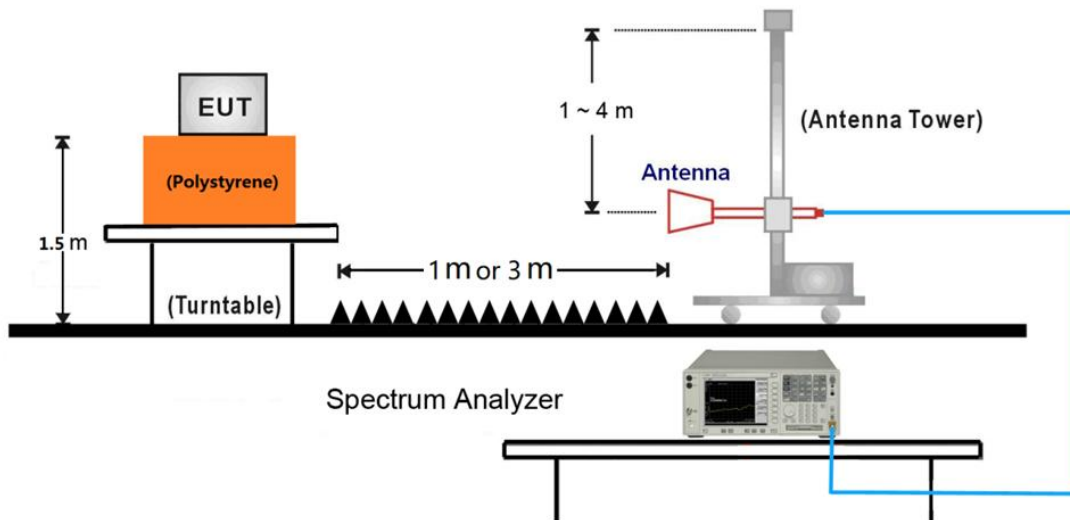
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle  $\geq 98\%$ , set VBW = 10 Hz.  
  
If the EUT duty cycle is  $< 98\%$ , set VBW  $\geq 1/T$ . T is the minimum transmission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

### 7.9.4. Test Setup

#### 30MHz ~ 1GHz Test Setup:



#### Above 1GHz Test Setup:



**7.9.5. Test Result**

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	DH5	Test Channel:	00
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4808.0	45.9	5.5	51.4	74.0	-22.6	Peak	Horizontal
	7621.5	32.2	14.2	46.4	74.0	-27.6	Peak	Horizontal
*	8692.5	29.6	14.6	44.2	74.0	-29.8	Peak	Horizontal
*	10112.0	31.9	18.0	49.9	74.0	-24.1	Peak	Horizontal
	4808.0	35.4	5.5	40.9	74.0	-33.1	Peak	Vertical
	7545.0	32.3	14.4	46.7	74.0	-27.3	Peak	Vertical
*	9670.0	32.6	16.5	49.1	74.0	-24.9	Peak	Vertical
*	10384.0	31.8	18.8	50.6	74.0	-23.4	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.6dBμV/m) or 15.209 which is higher.

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

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

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	DH5	Test Channel:	39
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4882.0	47.7	5.6	53.3	74.0	-20.7	Peak	Horizontal
	7451.5	33.4	14.3	47.7	74.0	-26.3	Peak	Horizontal
*	9840.0	31.3	17.3	48.6	74.0	-25.4	Peak	Horizontal
*	10350.0	30.2	18.5	48.7	74.0	-25.3	Peak	Horizontal
	4882.0	39.0	5.6	44.6	74.0	-29.4	Peak	Vertical
	7485.5	32.7	14.0	46.7	74.0	-27.3	Peak	Vertical
*	9661.5	32.0	16.5	48.5	74.0	-25.5	Peak	Vertical
*	10214.0	31.8	18.2	50.0	74.0	-24.0	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (85.2dBμV/m) or 15.209 which is higher.

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

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

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	DH5	Test Channel:	78
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4960.0	48.5	5.7	54.2	74.0	-19.8	Peak	Horizontal
	4960.0	47.5	5.7	53.2	54.0	-0.8	Average	Horizontal
	7613.0	32.2	14.2	46.4	74.0	-27.6	Peak	Horizontal
*	8701.0	31.6	14.6	46.2	74.0	-27.8	Peak	Horizontal
*	9899.5	32.3	17.3	49.6	74.0	-24.4	Peak	Horizontal
	4960.0	38.5	5.7	44.2	74.0	-29.8	Peak	Vertical
	7647.0	33.1	14.0	47.1	74.0	-26.9	Peak	Vertical
*	10843.0	30.2	20.0	50.2	74.0	-23.8	Peak	Vertical
*	12084.0	30.0	20.5	50.5	74.0	-23.5	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (84.1dBμV/m) or 15.209 which is higher.

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

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

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	2DH5	Test Channel:	00
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4799.5	45.9	5.5	51.4	74.0	-22.6	Peak	Horizontal
	7570.5	32.6	14.0	46.6	74.0	-27.4	Peak	Horizontal
*	9653.0	31.1	16.4	47.5	74.0	-26.5	Peak	Horizontal
*	10112.0	31.5	18.0	49.5	74.0	-24.5	Peak	Horizontal
	4804.0	36.5	5.5	42.0	74.0	-32.0	Peak	Vertical
	7570.5	33.4	14.0	47.4	74.0	-26.6	Peak	Vertical
*	10010.0	31.7	17.7	49.4	74.0	-24.6	Peak	Vertical
*	10265.0	32.2	18.2	50.4	74.0	-23.6	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (86.7dBμV/m) or 15.209 which is higher.

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

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

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	2DH5	Test Channel:	39
Remark:	<ol style="list-style-type: none"> <li>1. Average measurement was not performed if peak level lower than average limit.</li> <li>2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.</li> </ol>		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4882.0	47.9	5.6	53.5	74.0	-20.5	Peak	Horizontal
	7536.5	32.1	14.4	46.5	74.0	-27.5	Peak	Horizontal
*	9653.0	31.5	16.4	47.9	74.0	-26.1	Peak	Horizontal
*	10367.0	31.4	18.6	50.0	74.0	-24.0	Peak	Horizontal
	4882.0	37.0	5.6	42.6	74.0	-31.4	Peak	Vertical
	7485.5	32.5	14.0	46.5	74.0	-27.5	Peak	Vertical
*	9755.0	32.1	16.9	49.0	74.0	-25.0	Peak	Vertical
*	10384.0	31.4	18.8	50.2	74.0	-23.8	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (85.3dBμV/m) or 15.209 which is higher.

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

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

Product	Wireless Earphone	Temperature	25°C
Test Engineer	Dandy Li	Relative Humidity	56%
Test Site	AC2	Test Date	2019/01/26
Test Mode:	2DH5	Test Channel:	78
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.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	4960.0	47.6	5.7	53.3	74.0	-20.7	Peak	Horizontal
	7604.5	31.9	14.2	46.1	74.0	-27.9	Peak	Horizontal
*	9653.0	32.8	16.4	49.2	74.0	-24.8	Peak	Horizontal
*	10214.0	30.5	18.2	48.7	74.0	-25.3	Peak	Horizontal
	4960.0	35.6	5.7	41.3	74.0	-32.7	Peak	Vertical
	7570.5	33.3	14.0	47.3	74.0	-26.7	Peak	Vertical
*	9678.5	31.4	16.4	47.8	74.0	-26.2	Peak	Vertical
*	10214.0	30.5	18.2	48.7	74.0	-25.3	Peak	Vertical

Note 1: "\*" is not in restricted band, its limit is 20dBc of the fundamental emission level (84.9dBμV/m) or 15.209 which is higher.

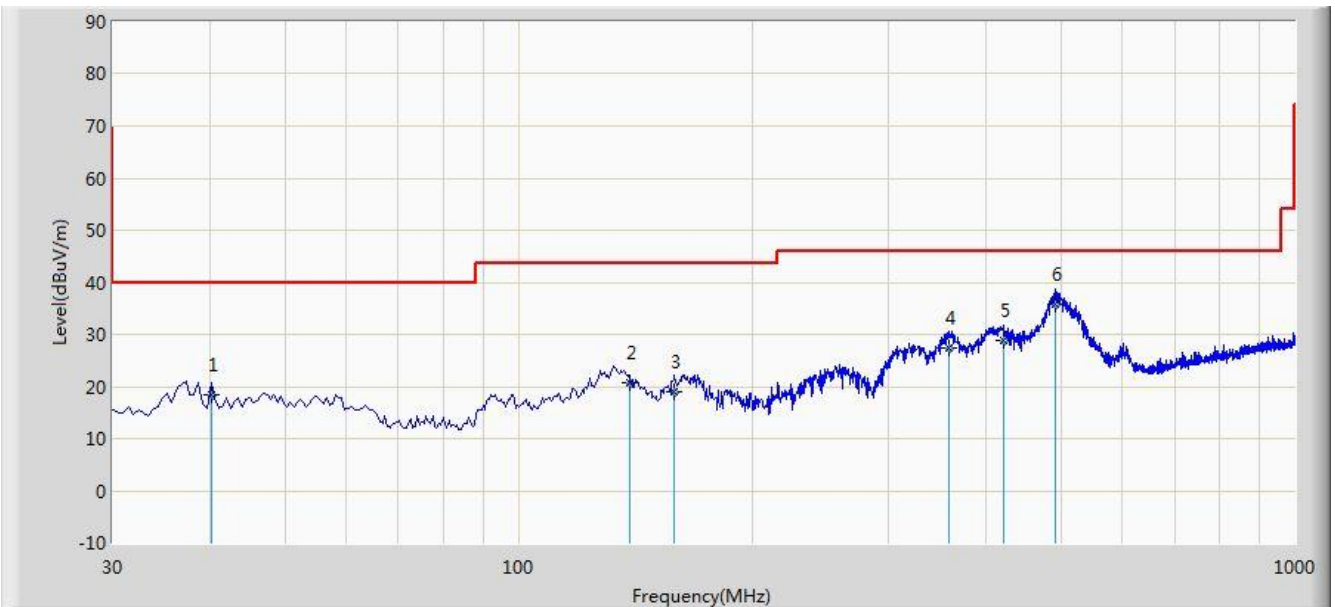
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

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



**The Worst Case of Radiated Emission below 1GHz:**

Site: AC2	Time: 2019/01/28 - 22:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Max Wang
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: AC 120V/60Hz
Test Mode: There is the worst case within frequency range 30MHz~1GHz.	



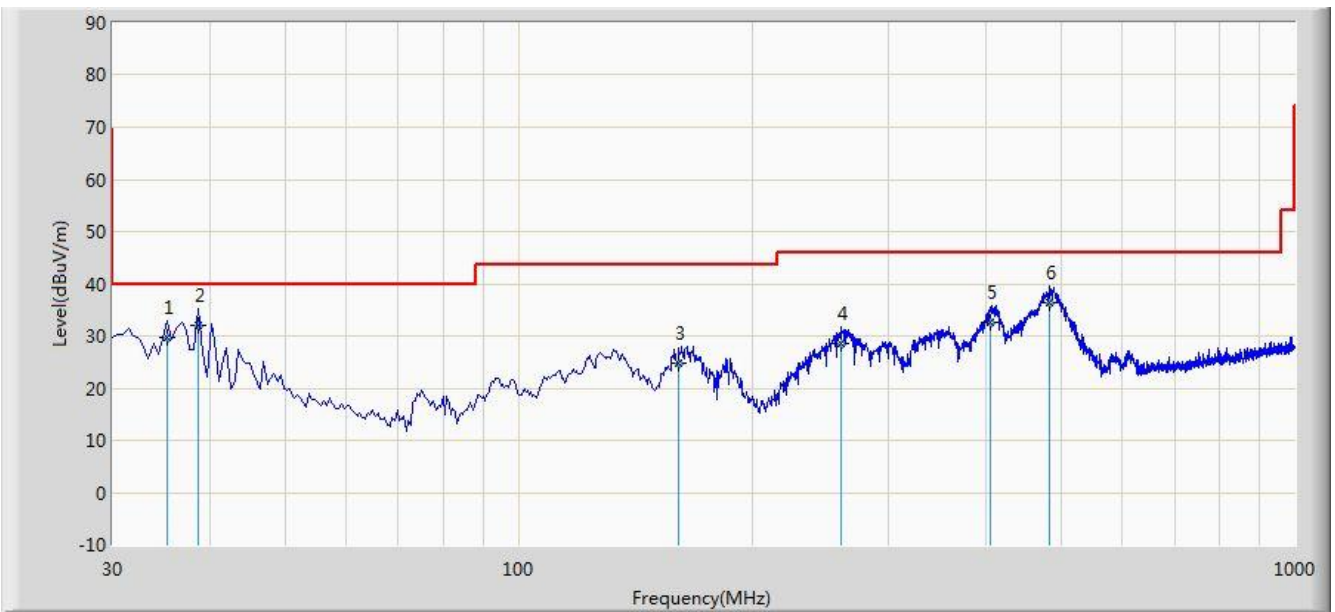
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			40.185	18.282	4.276	-21.718	40.000	14.006	QP
2			138.820	20.618	10.860	-22.882	43.500	9.758	QP
3			159.010	19.103	9.083	-24.397	43.500	10.021	QP
4			359.315	27.451	11.152	-18.549	46.000	16.299	QP
5			420.910	28.879	11.516	-17.121	46.000	17.363	QP
6		*	492.205	35.754	17.216	-10.246	46.000	18.538	QP

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

Site: AC2	Time: 2019/01/28 - 22:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Max Wang
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: AC 120V/60Hz
Test Mode: There is the worst case within frequency range 30MHz~1GHz.	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			35.335	29.799	16.699	-10.201	40.000	13.100	QP
2		*	38.730	32.126	18.397	-7.874	40.000	13.729	QP
3			160.950	24.793	14.696	-18.707	43.500	10.097	QP
4			259.890	28.689	14.535	-17.311	46.000	14.154	QP
5			404.905	32.535	15.403	-13.465	46.000	17.133	QP
6			483.960	36.449	18.048	-9.551	46.000	18.401	QP

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

## 7.10. Radiated Restricted Band Edge Measurement

### 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 - 156.525	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

**7.10.1. Test Procedure Used**

ANSI C63.10 Section 6.3 (General Requirements)

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

**7.10.2. Test Setting**

**Peak Field Strength Measurements**

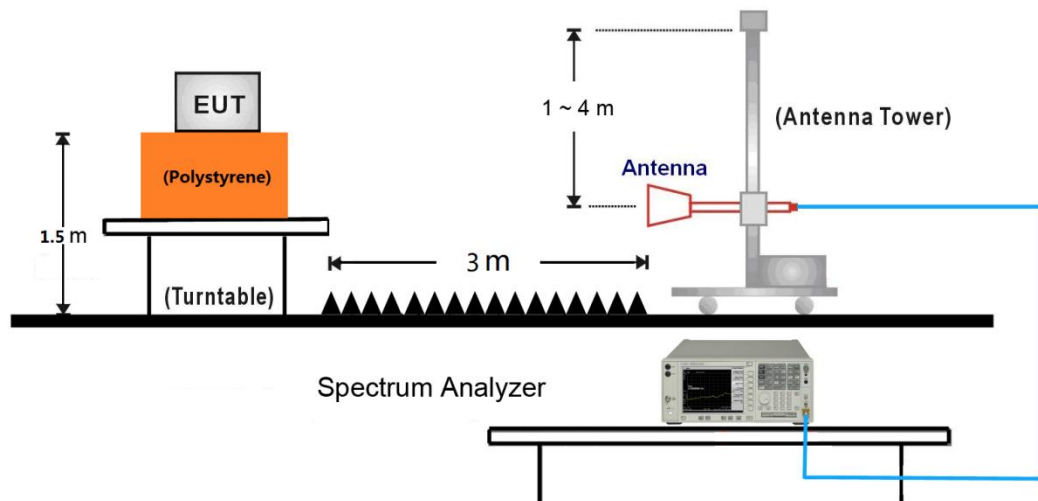
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### Average 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.

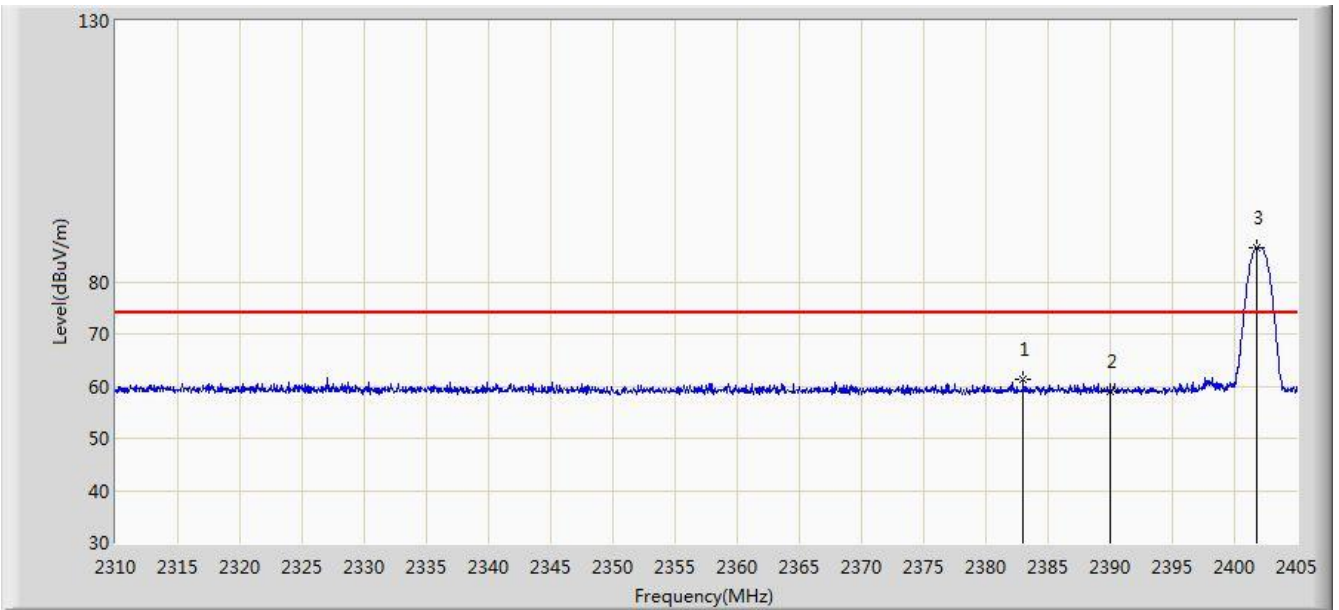
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

#### 7.10.3.Test Setup



**7.10.4. Test Result**

Site: AC2	Time: 2019/01/26 - 16:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2402MHz	

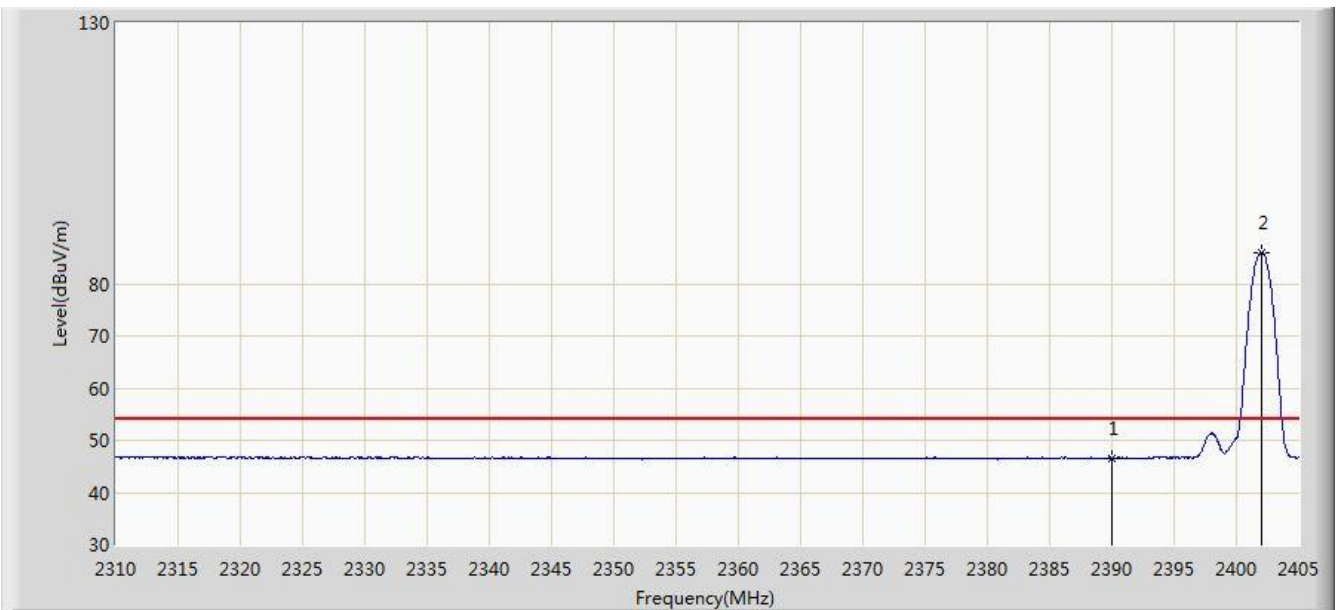


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.008	61.179	28.592	-12.821	74.000	32.587	PK
2			2390.000	58.897	26.322	-15.103	74.000	32.575	PK
3		*	2401.818	86.558	53.999	N/A	N/A	32.559	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2402MHz	

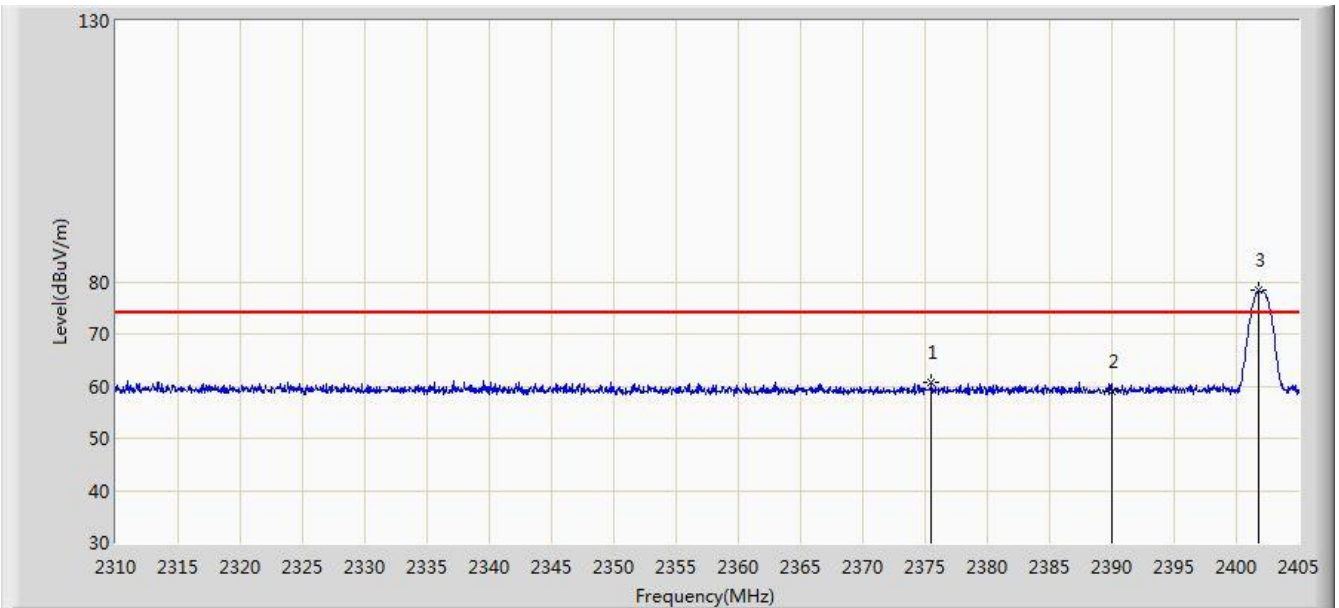


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.535	13.960	-7.465	54.000	32.575	AV
2		*	2402.008	86.051	53.492	N/A	N/A	32.559	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2402MHz	



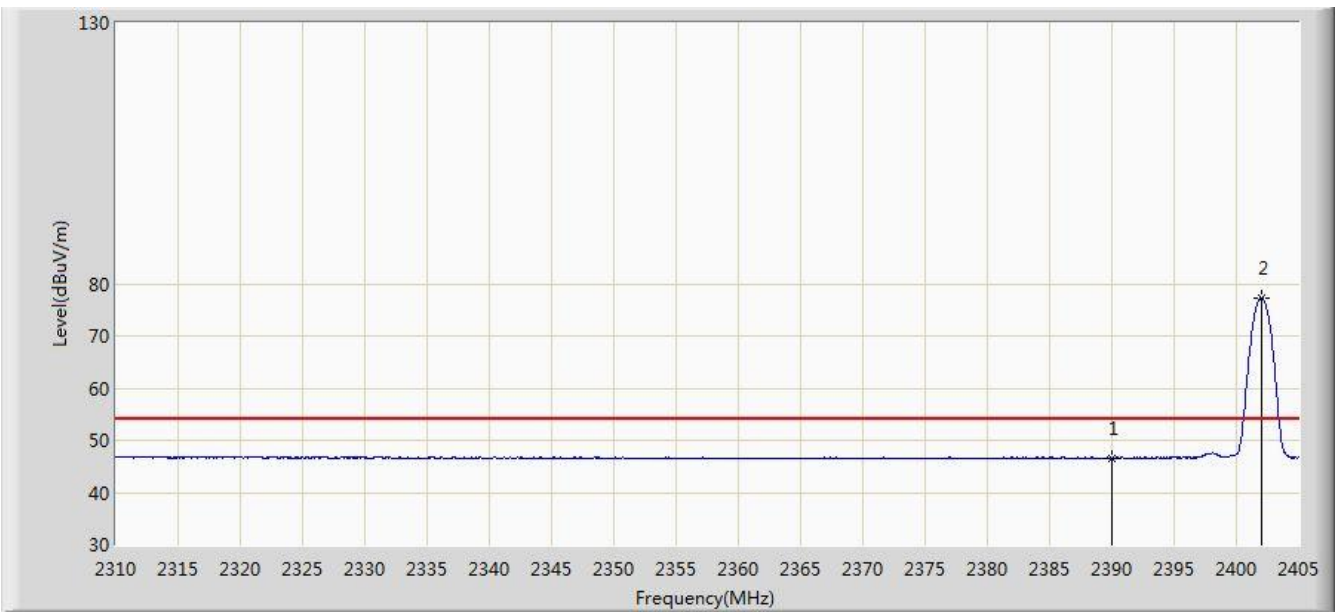
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2375.502	60.720	28.120	-13.280	74.000	32.599	PK
2			2390.000	59.003	26.428	-14.997	74.000	32.575	PK
3		*	2401.817	78.354	45.795	N/A	N/A	32.559	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



Site: AC2	Time: 2019/01/26 - 16:38
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2402MHz	

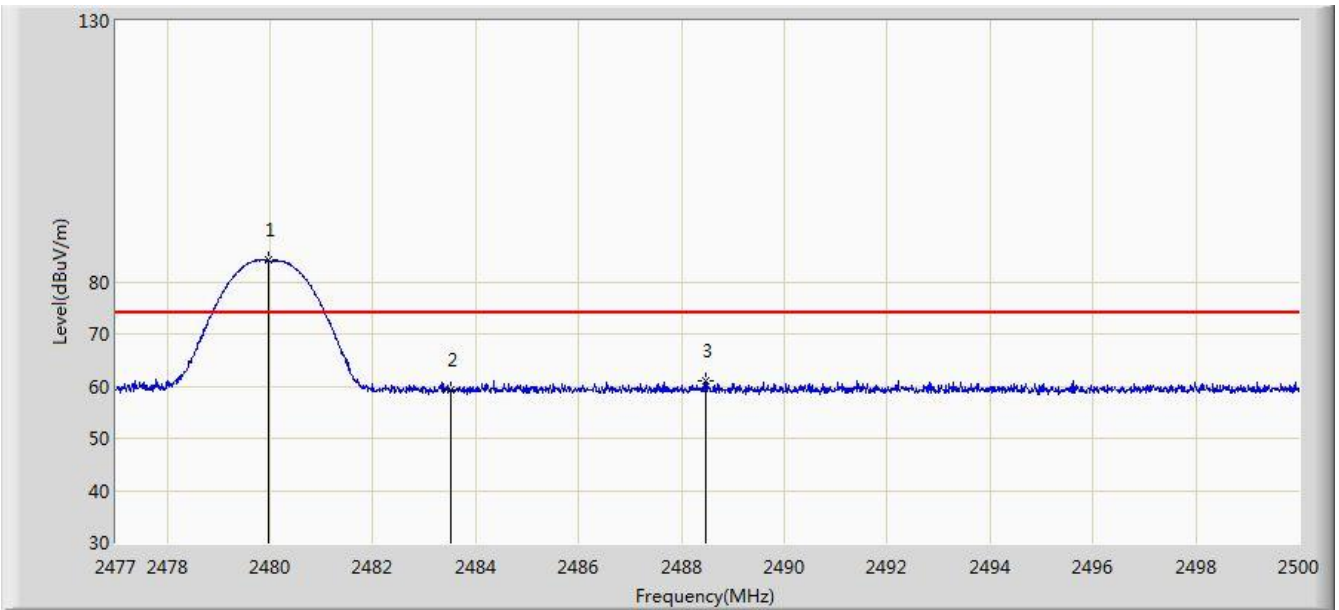


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.612	14.037	-7.388	54.000	32.575	AV
2		*	2402.008	77.321	44.762	N/A	N/A	32.559	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2480MHz	

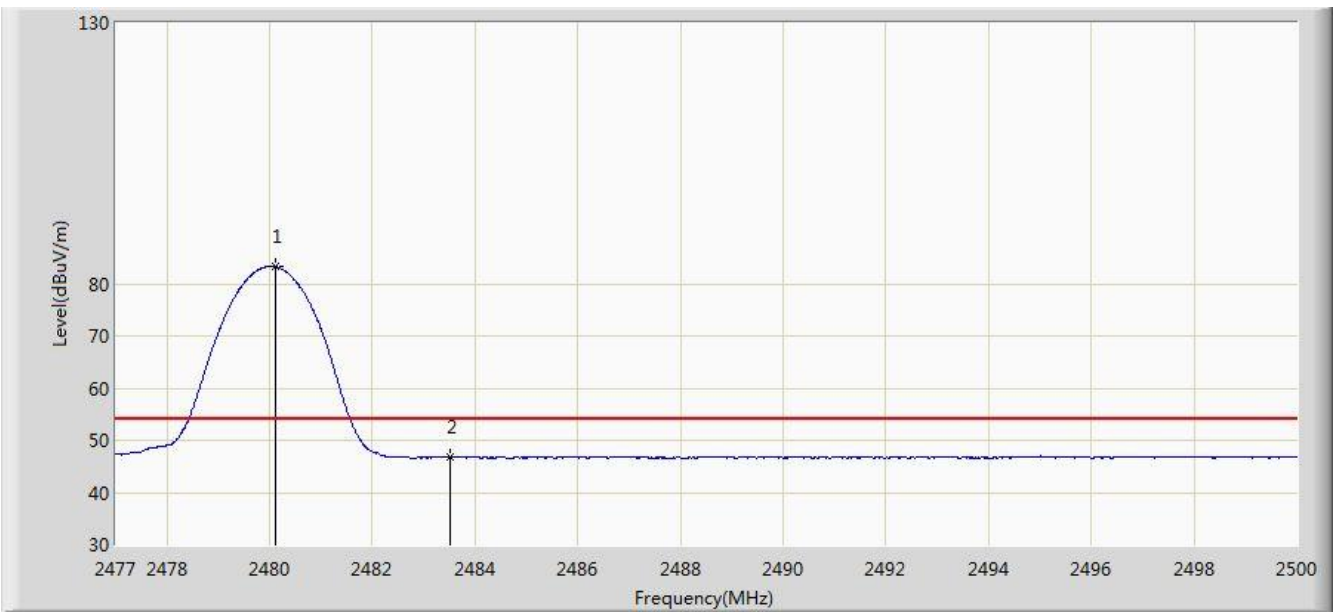


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.956	84.069	51.482	N/A	N/A	32.587	PK
2			2483.500	59.347	26.751	-14.653	74.000	32.596	PK
3			2488.477	61.153	28.545	-12.847	74.000	32.609	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2480MHz	

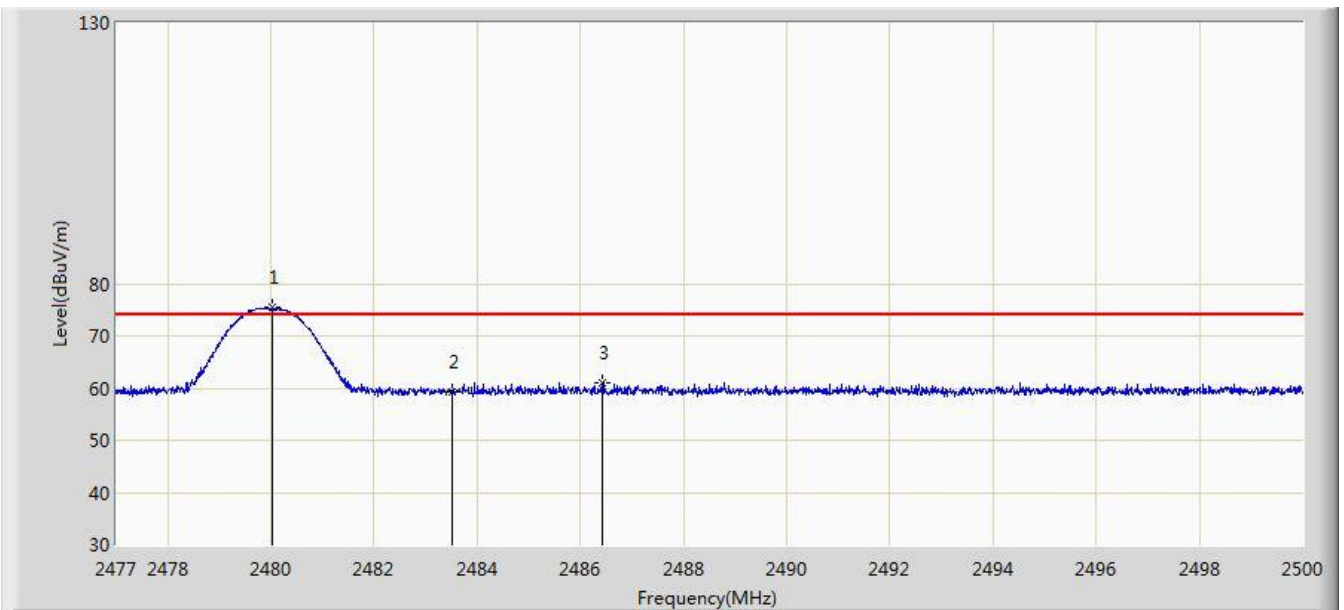


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.105	83.270	50.683	N/A	N/A	32.587	AV
2			2483.500	46.813	14.217	-7.187	54.000	32.596	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2480MHz	

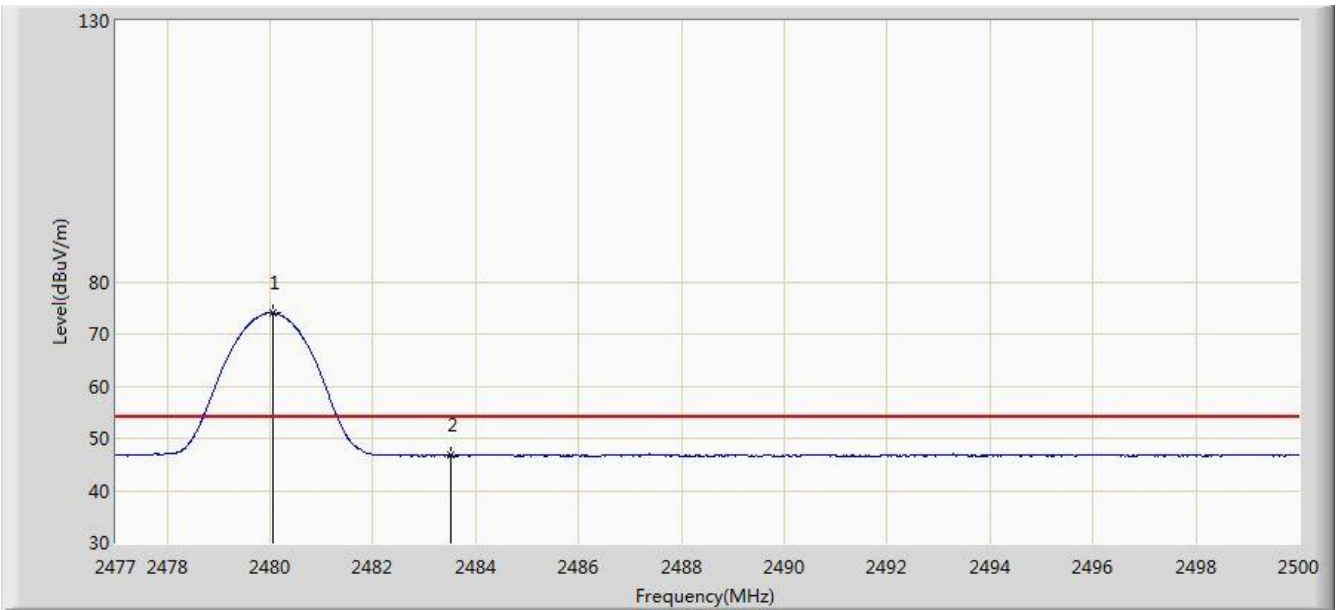


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.013	75.473	42.886	N/A	N/A	32.587	PK
2			2483.500	59.334	26.738	-14.666	74.000	32.596	PK
3			2486.418	61.116	28.513	-12.884	74.000	32.603	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by DH5 at channel 2480MHz	

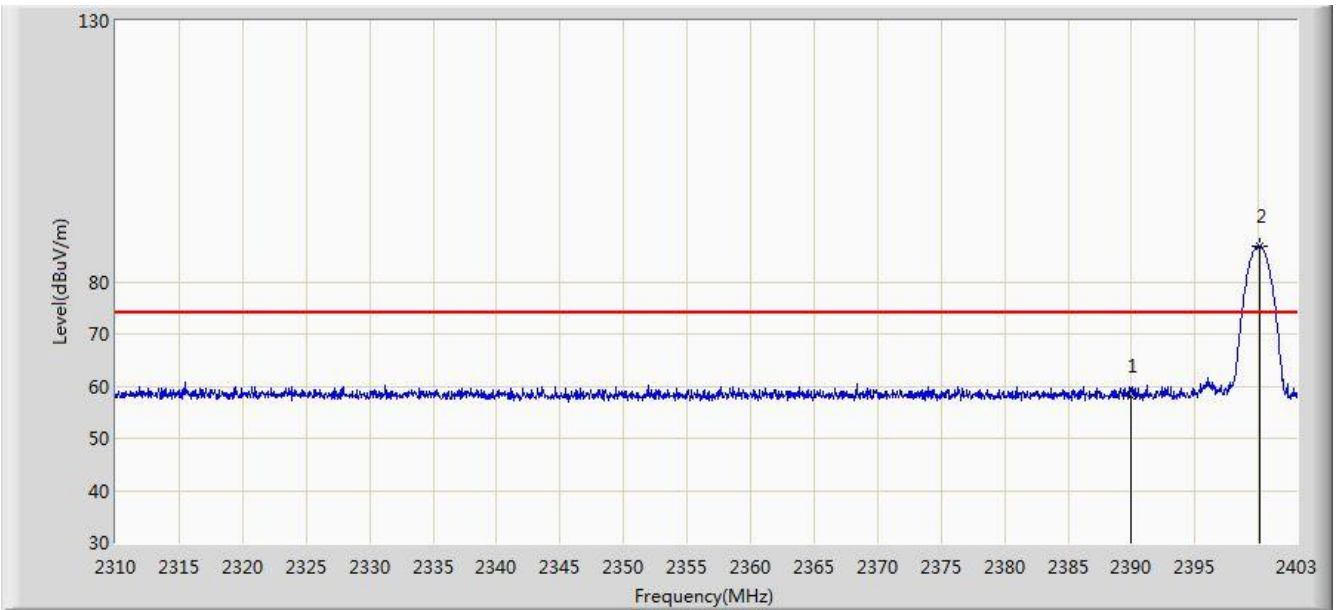


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.059	73.967	41.380	N/A	N/A	32.587	AV
2			2483.500	46.715	14.119	-7.285	54.000	32.596	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2402MHz	

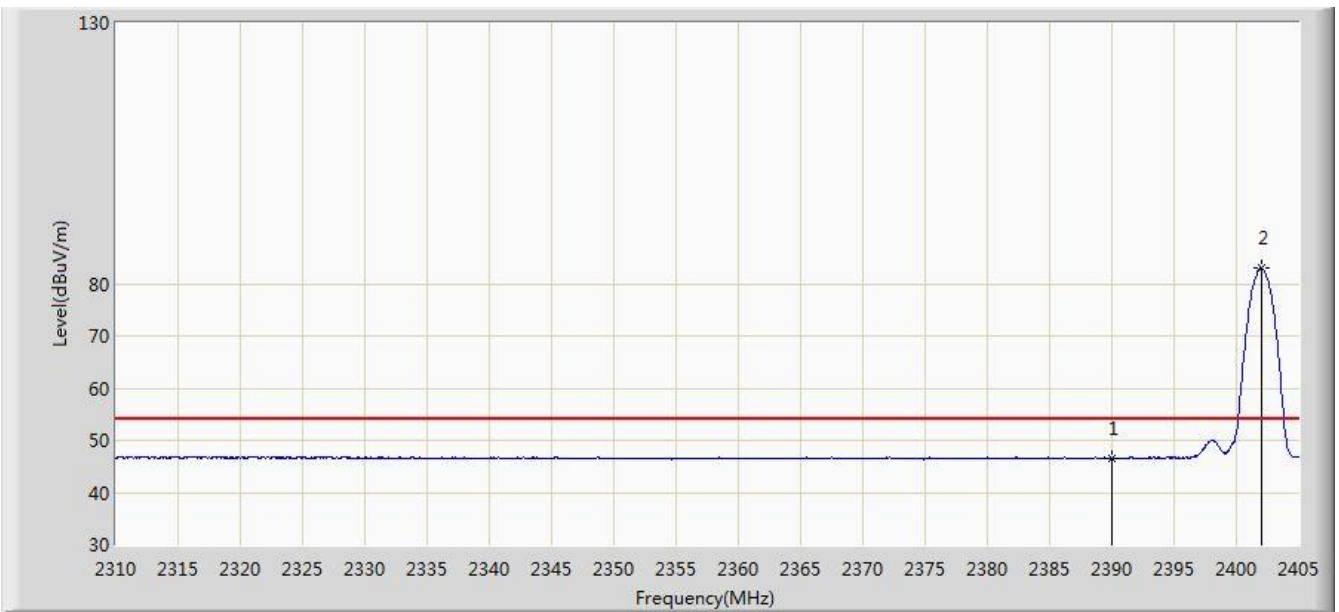


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	58.128	25.553	-15.872	74.000	32.575	PK
2		*	2400.117	86.684	54.123	N/A	N/A	32.561	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2402MHz	

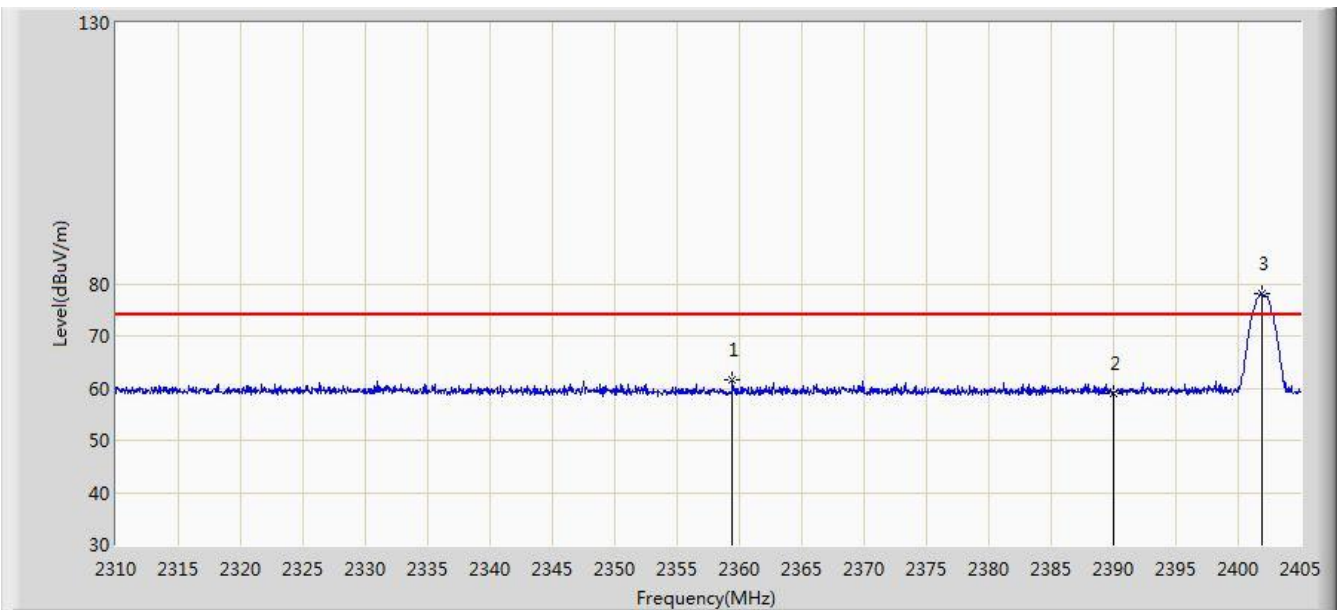


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.603	14.028	-7.397	54.000	32.575	AV
2		*	2402.008	82.997	50.438	N/A	N/A	32.559	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2402MHz	



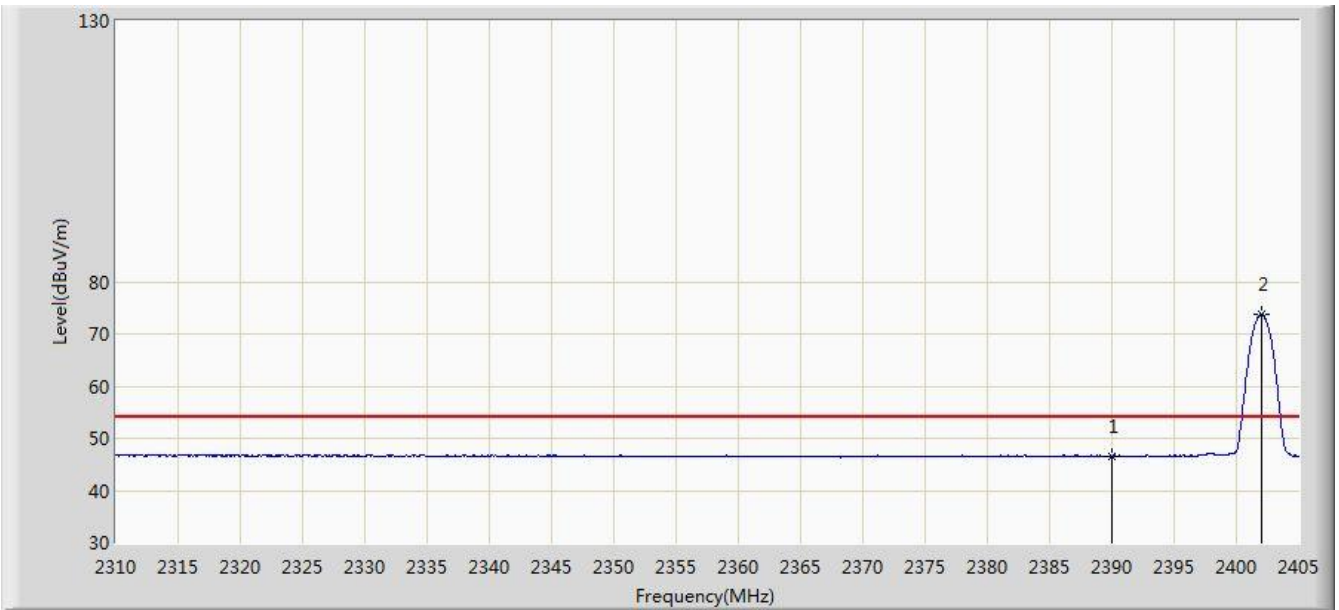
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2359.448	61.496	28.872	-12.504	74.000	32.623	PK
2			2390.000	59.014	26.439	-14.986	74.000	32.575	PK
3		*	2401.865	78.085	45.526	N/A	N/A	32.559	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)



Site: AC2	Time: 2019/01/26 - 16:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2402MHz	

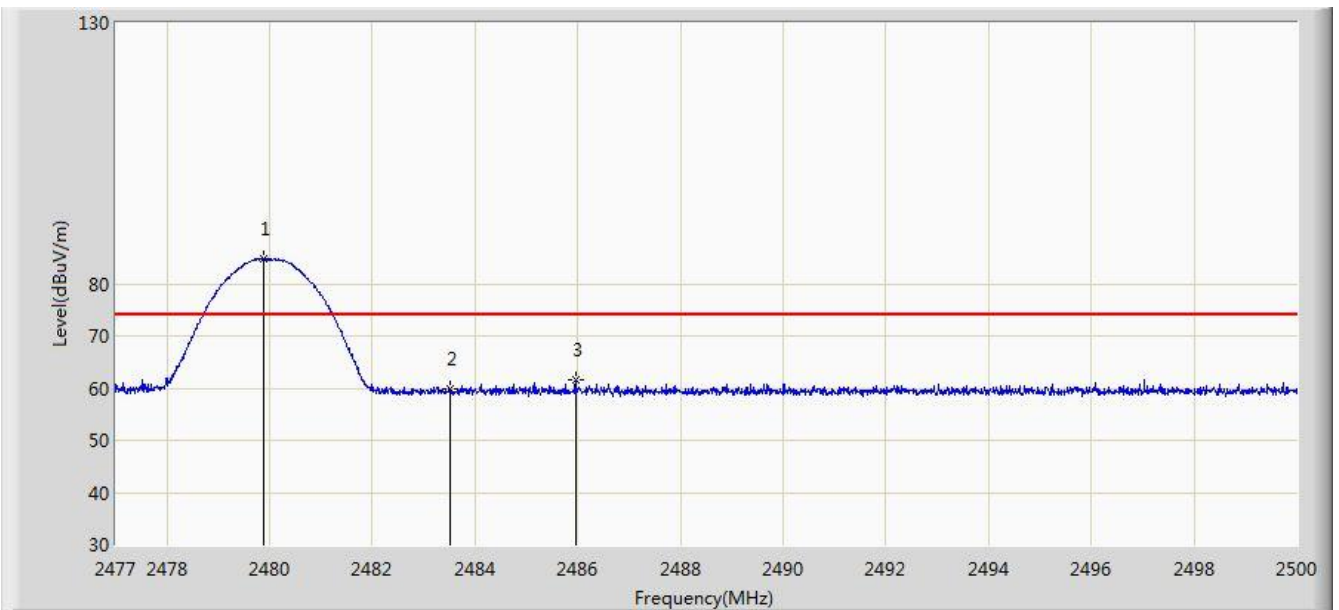


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.558	13.983	-7.442	54.000	32.575	AV
2		*	2402.055	73.879	41.320	N/A	N/A	32.558	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2480MHz	

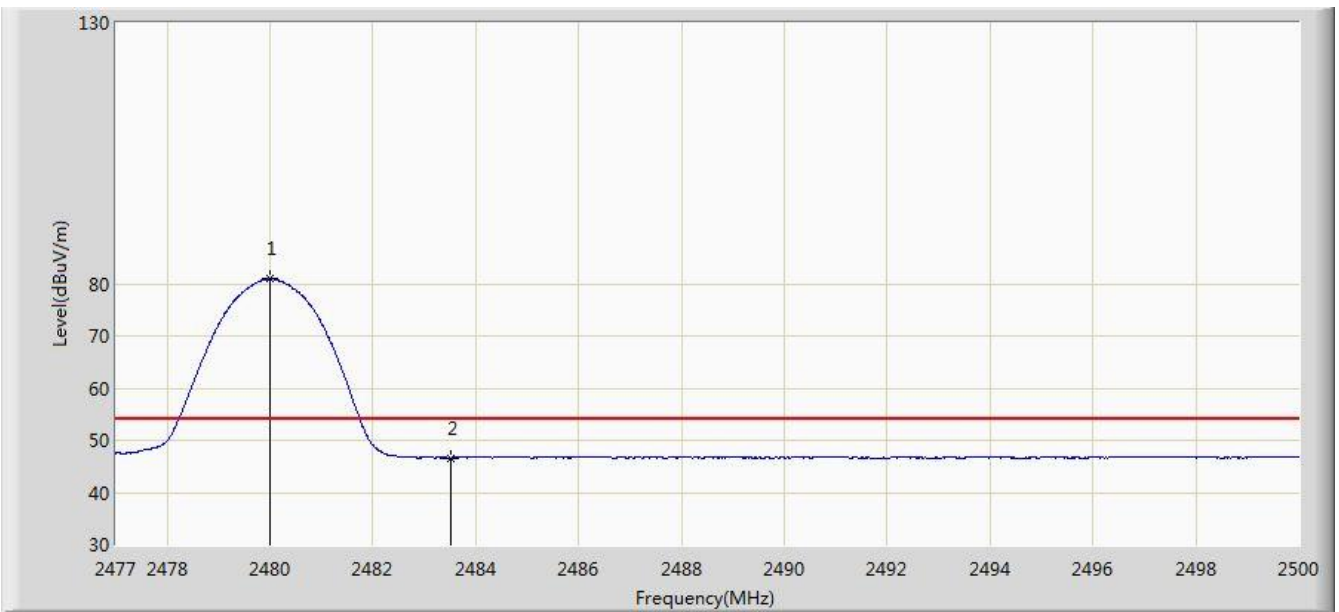


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.875	84.881	52.294	N/A	N/A	32.587	PK
2			2483.500	59.729	27.133	-14.271	74.000	32.596	PK
3			2485.958	61.640	29.038	-12.360	74.000	32.602	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2480MHz	

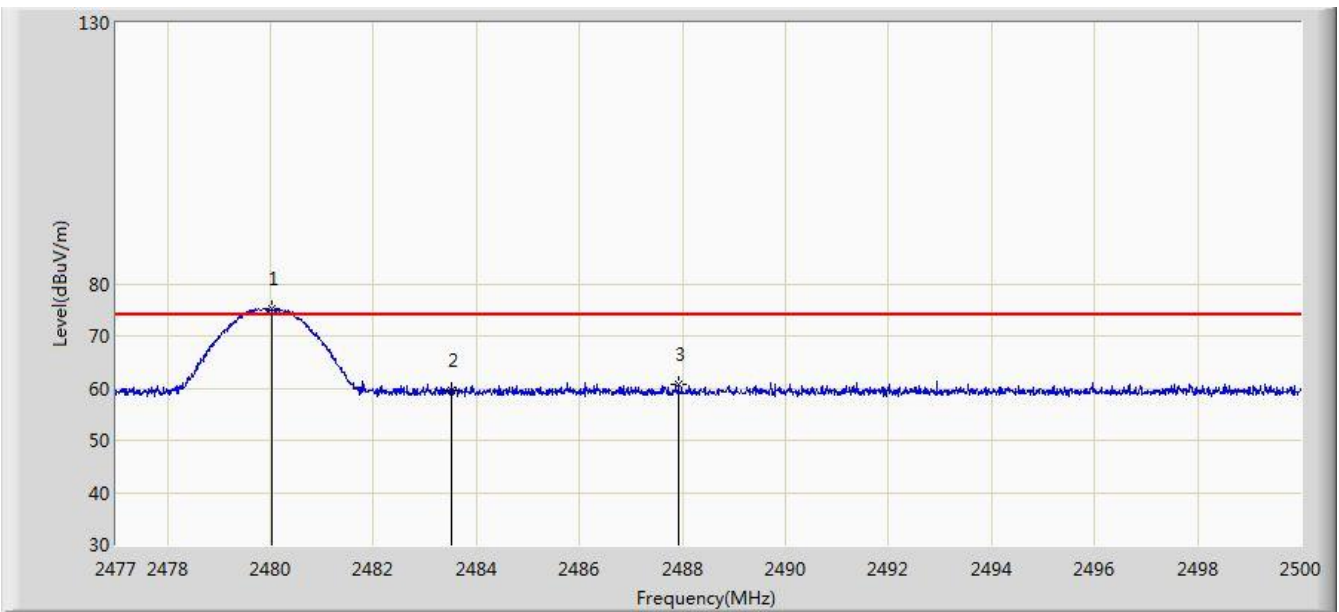


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2479.990	80.906	48.319	N/A	N/A	32.587	AV
2			2483.500	46.625	14.029	-7.375	54.000	32.596	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 16:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2480MHz	

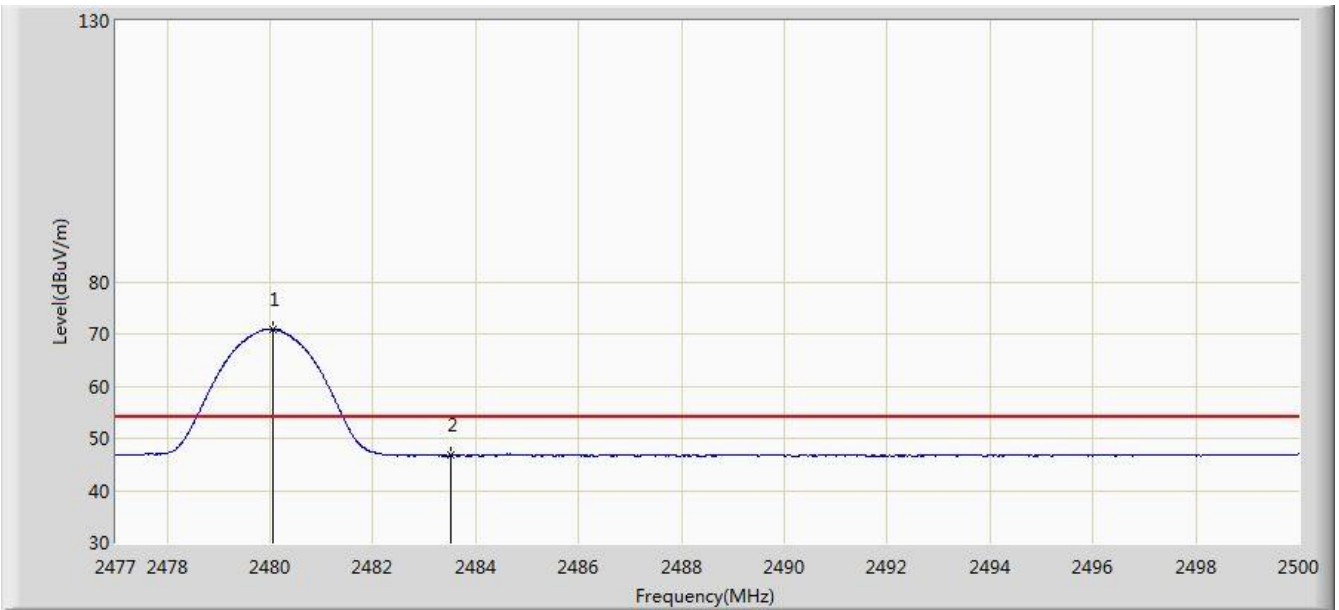


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.024	75.316	42.729	N/A	N/A	32.587	PK
2			2483.500	59.465	26.869	-14.535	74.000	32.596	PK
3			2487.925	60.857	28.250	-13.143	74.000	32.607	PK

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Site: AC2	Time: 2019/01/26 - 17:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Dandy Li
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wireless Earphone	Power: DC 3.3V
Test Mode: Transmit by 2DH5 at channel 2480MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2480.059	70.925	38.338	N/A	N/A	32.587	AV
2			2483.500	46.772	14.176	-7.228	54.000	32.596	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

## 7.11. AC Conducted Emissions Measurement

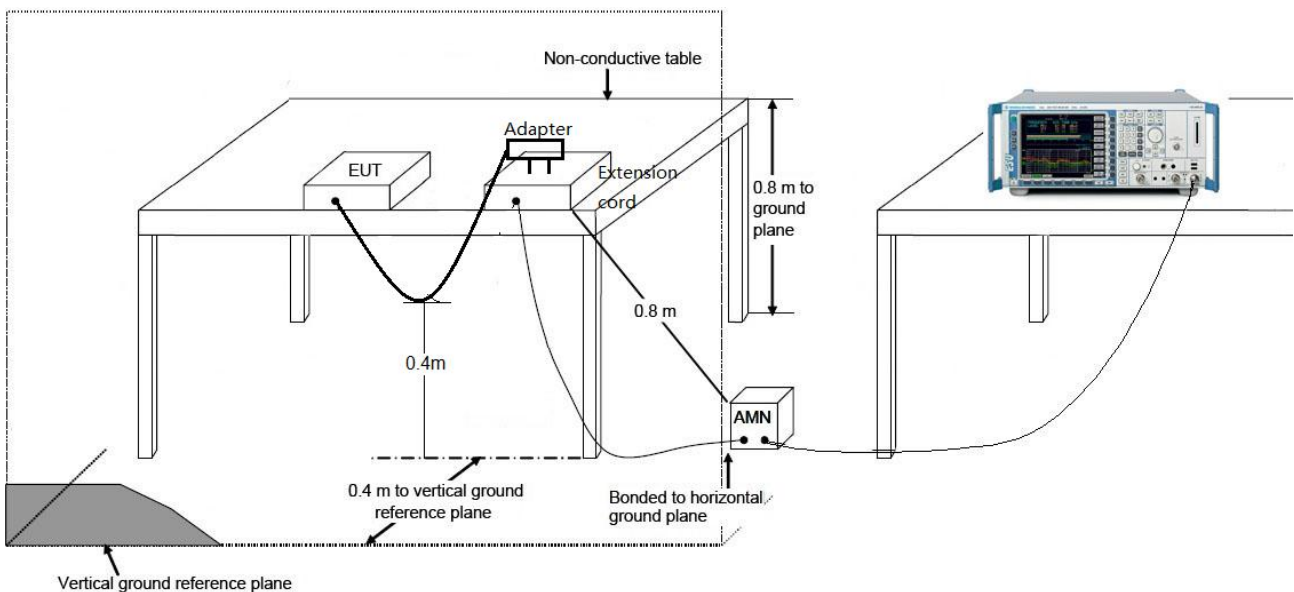
### 7.11.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB $\mu$ V)	Average (dB $\mu$ V)
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.

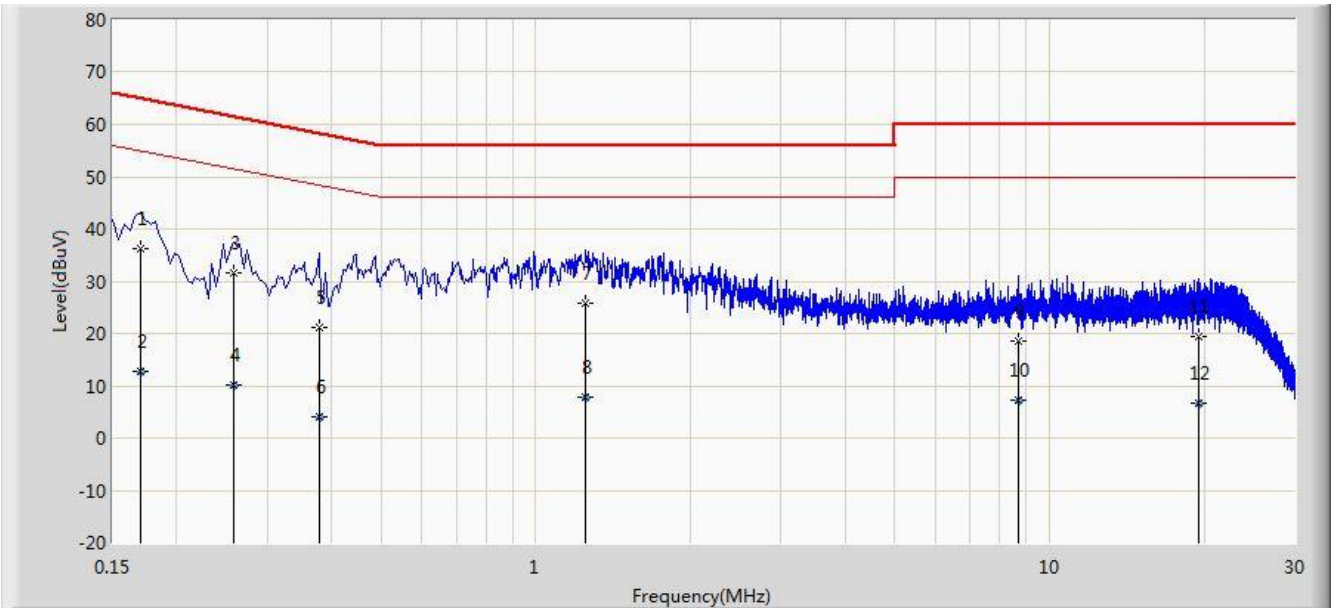
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

### 7.11.2. Test Setup



### 7.11.3. Test Result

Site: SR2	Time: 2019/01/29 - 16:47
Limit: FCC_Part15.207_CE_AC Power_Class B	Engineer: Max Wang
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Wireless Earphone	Power: AC 120V/60Hz
Test Mode 1	

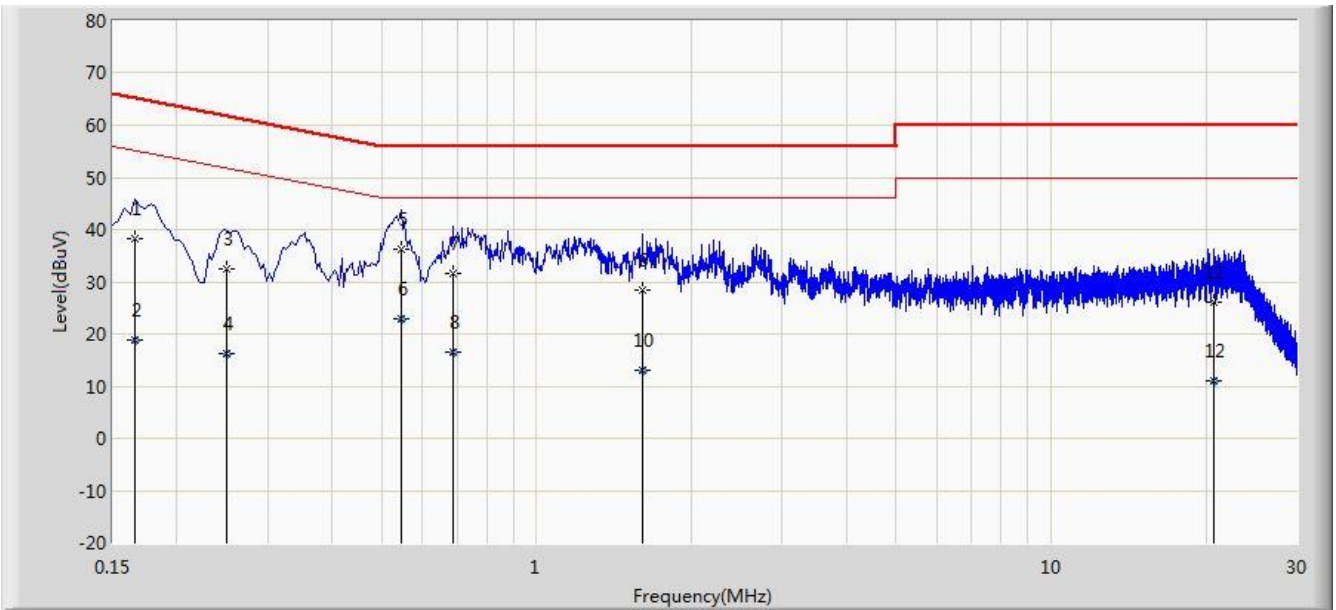


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.170	36.318	26.230	-28.642	64.960	10.089	QP
2			0.170	12.852	2.764	-42.108	54.960	10.089	AV
3			0.258	31.514	21.515	-29.982	61.496	9.998	QP
4			0.258	10.197	0.198	-41.299	51.496	9.998	AV
5			0.378	21.202	11.098	-37.122	58.323	10.103	QP
6			0.378	3.995	-6.109	-44.328	48.323	10.103	AV
7			1.250	25.740	15.631	-30.260	56.000	10.110	QP
8			1.250	7.879	-2.231	-38.121	46.000	10.110	AV
9			8.698	18.488	8.359	-41.512	60.000	10.129	QP
10			8.698	7.148	-2.981	-42.852	50.000	10.129	AV
11			19.558	19.391	9.028	-40.609	60.000	10.363	QP
12			19.558	6.774	-3.588	-43.226	50.000	10.363	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)

Site: SR2	Time: 2019/01/29 - 16:56
Limit: FCC_Part15.107_CE_AC Power_ClassB	Engineer: Max Wang
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Wireless Earphone	Power: AC 120V/60Hz
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.166	38.142	28.067	-27.016	65.158	10.076	QP
2			0.166	18.724	8.649	-36.434	55.158	10.076	AV
3			0.250	32.591	22.592	-29.166	61.757	9.999	QP
4			0.250	16.170	6.171	-35.587	51.757	9.999	AV
5		*	0.546	36.231	26.000	-19.769	56.000	10.230	QP
6			0.546	22.860	12.630	-23.140	46.000	10.230	AV
7			0.686	31.463	21.241	-24.537	56.000	10.222	QP
8			0.686	16.663	6.441	-29.337	46.000	10.222	AV
9			1.606	28.502	18.346	-27.498	56.000	10.156	QP
10			1.606	12.948	2.791	-33.052	46.000	10.156	AV
11			20.642	26.113	15.682	-33.887	60.000	10.431	QP
12			20.642	11.157	0.726	-38.843	50.000	10.431	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB)



## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Wireless Earphone** is in compliance with Part 15C of the FCC rules.

## **Appendix A - Test Setup Photograph**

Refer to "1901RSU006-UT" file.

## Appendix B - EUT Photograph

Refer to "1901RSU006-UE" file.

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