

## **7.7. Out-of-Band Spurious Emissions Emissions Measurement**

### **7.7.1. 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. 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.

### **7.7.2. Test Procedure Used**

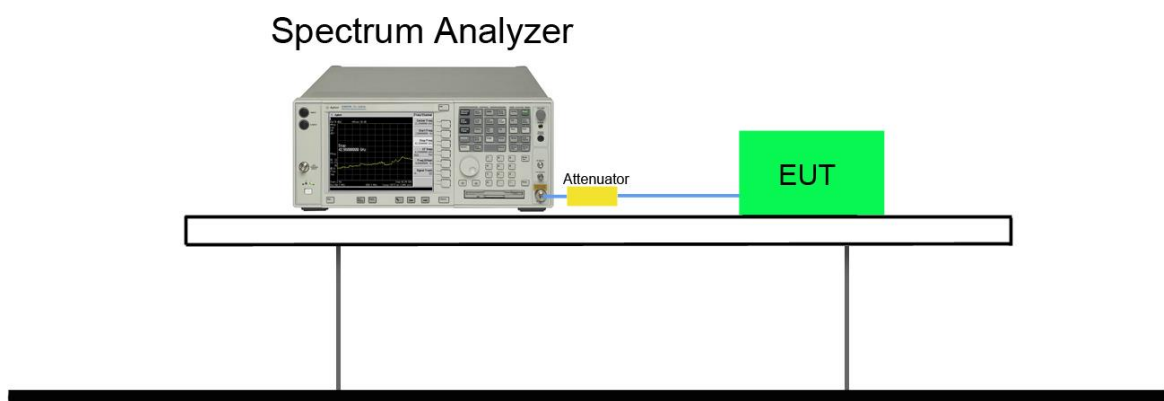
ANSI C63.10-2013 - Section 7.8.8

### 7.7.3. 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

Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this section.

### 7.7.4. Test Setup



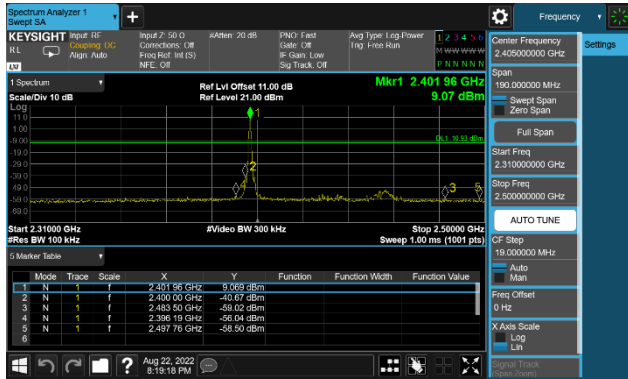
**7.7.5. Test Result**

Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
Left Ear				
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	39	2441	20dBc	Pass
3DH5	78	2480	20dBc	Pass

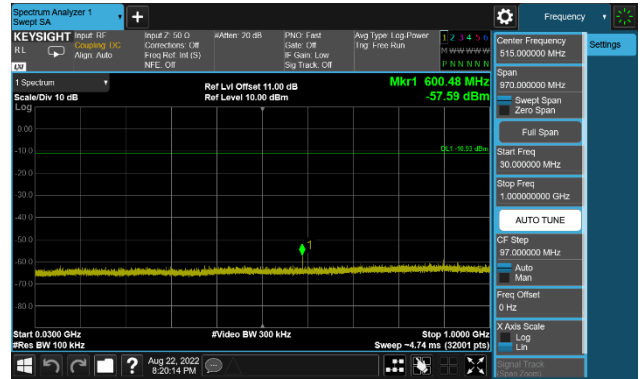
Test Mode	Channel No.	Frequency (MHz)	Limit (MHz)	Result
Right Ear				
DH5	00	2402	20dBc	Pass
DH5	39	2441	20dBc	Pass
DH5	78	2480	20dBc	Pass
3DH5	00	2402	20dBc	Pass
3DH5	39	2441	20dBc	Pass
3DH5	78	2480	20dBc	Pass

Left Ear

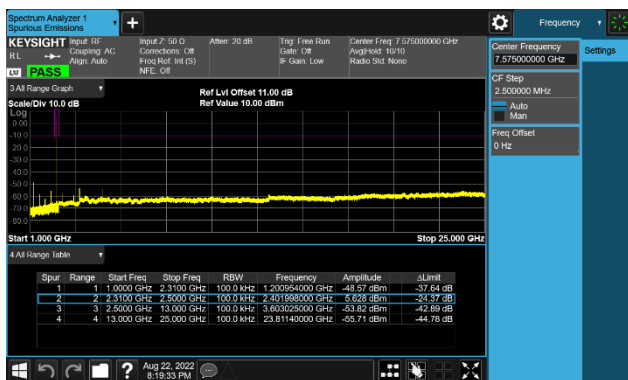
CH00 (2402MHz) DH5(1Mbps)



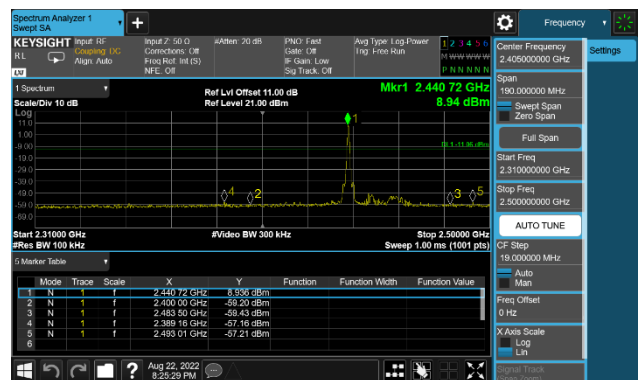
CH00 (2402MHz) DH5(1Mbps)



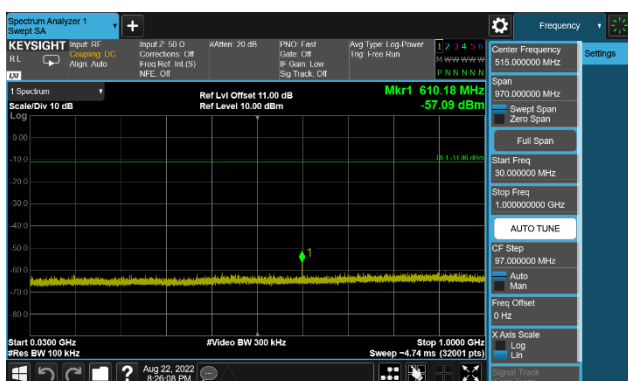
CH00 (2402MHz) DH5(1Mbps)



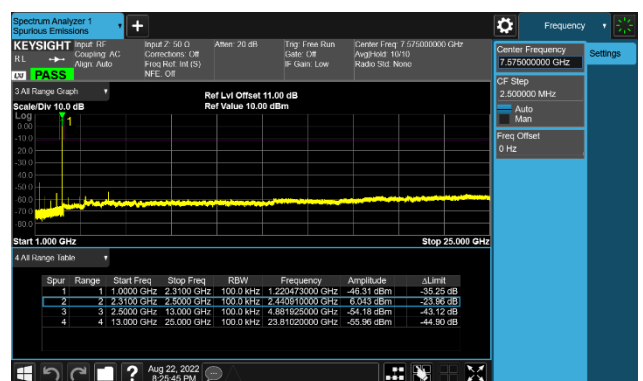
CH39 (2441MHz) DH5(1Mbps)

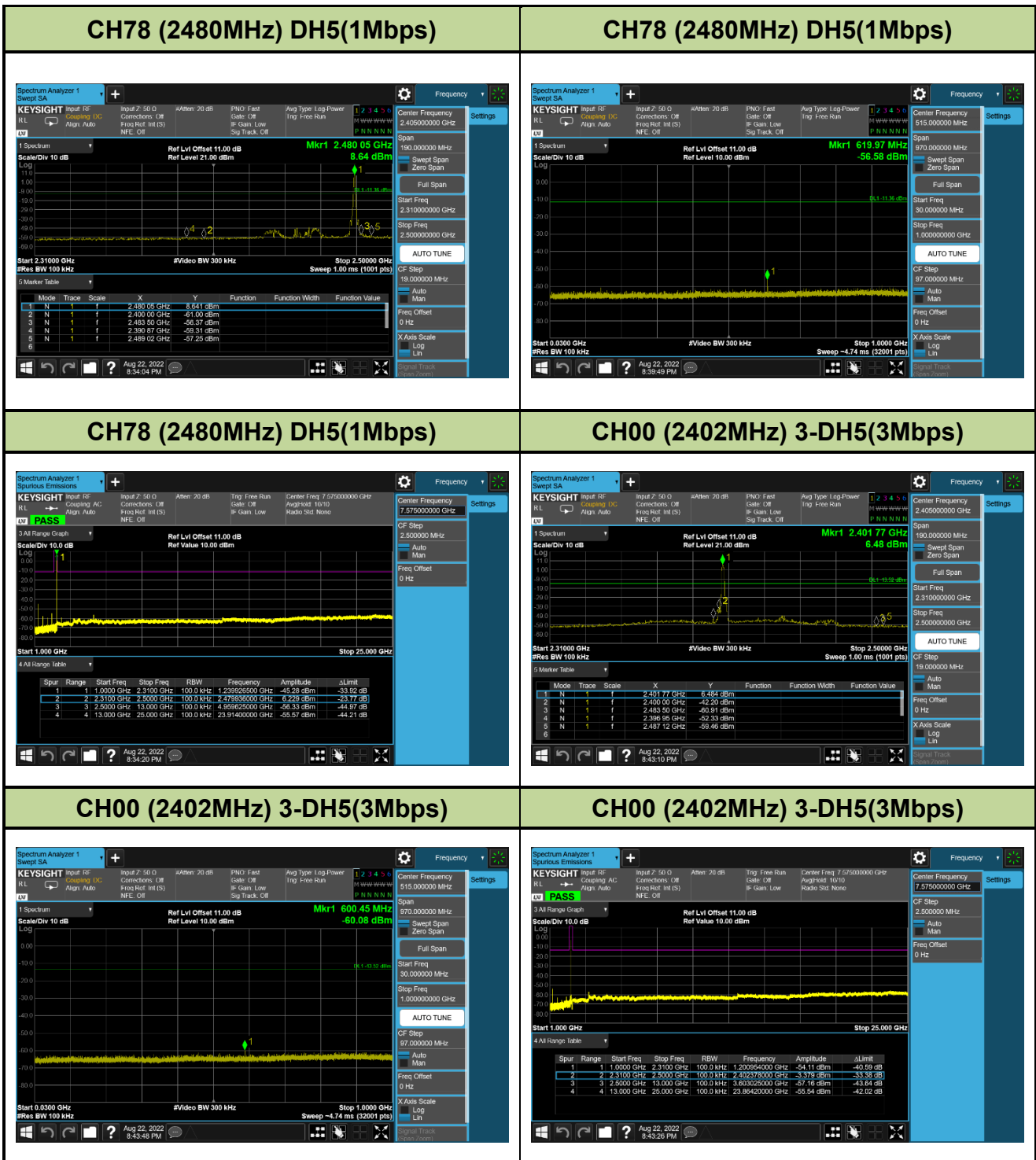


CH39 (2441MHz) DH5(1Mbps)

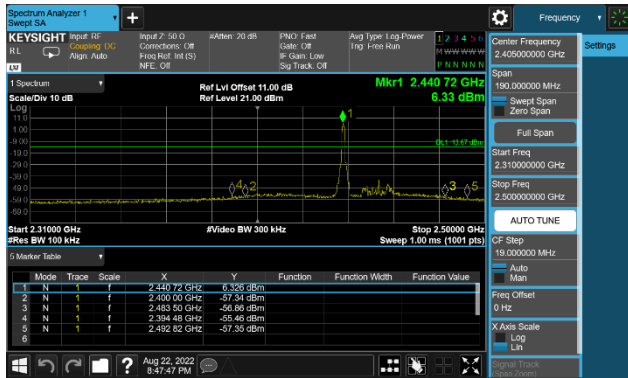


CH39 (2441MHz) DH5(1Mbps)

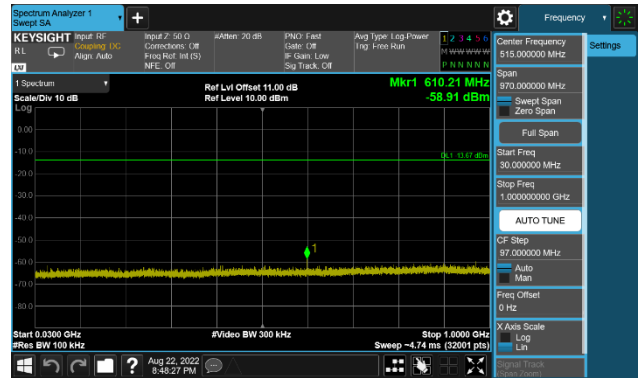




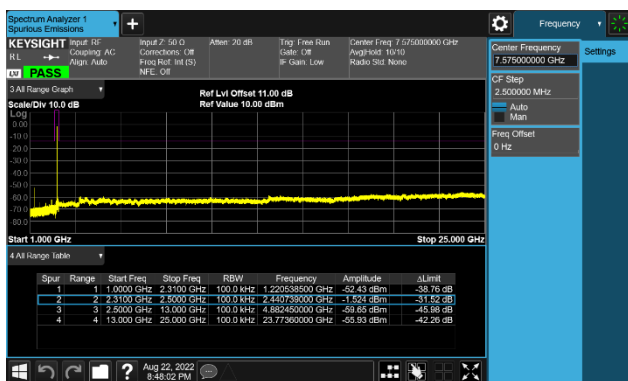
### CH39 (2441MHz) 3-DH5(3Mbps)



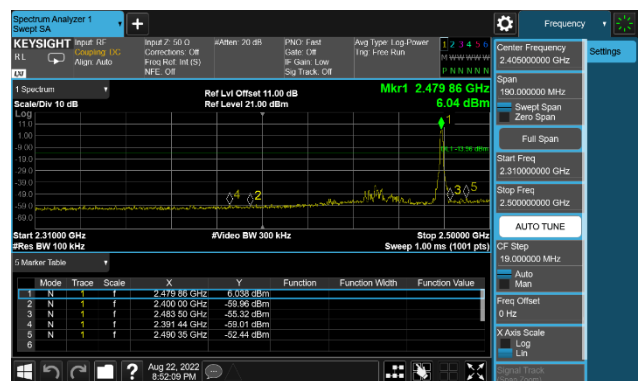
### CH39 (2441MHz) 3-DH5(3Mbps)



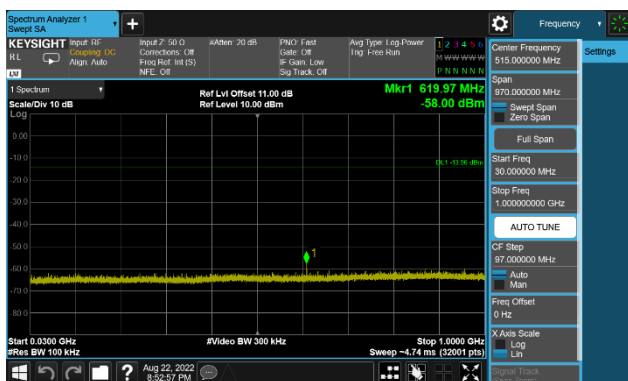
### CH39 (2441MHz) 3-DH5(3Mbps)



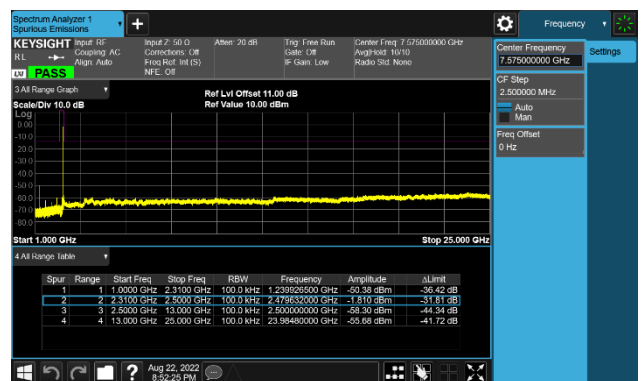
### CH78 (2480MHz) 3-DH5(3Mbps)



### CH78 (2480MHz) 3-DH5(3Mbps)

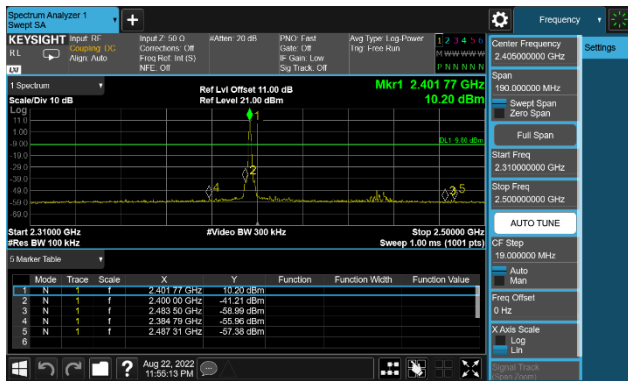


### CH78 (2480MHz) 3-DH5(3Mbps)

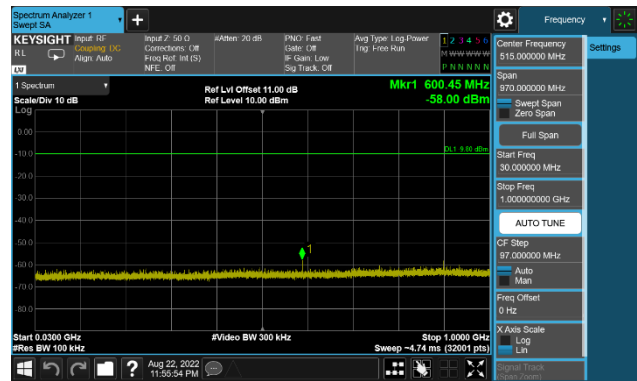


### Right Ear

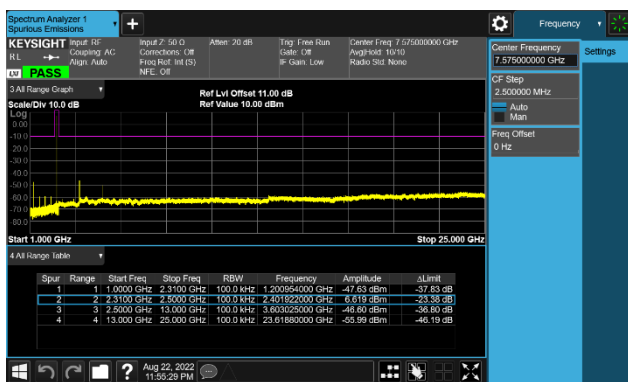
#### CH00 (2402MHz) DH5(1Mbps)



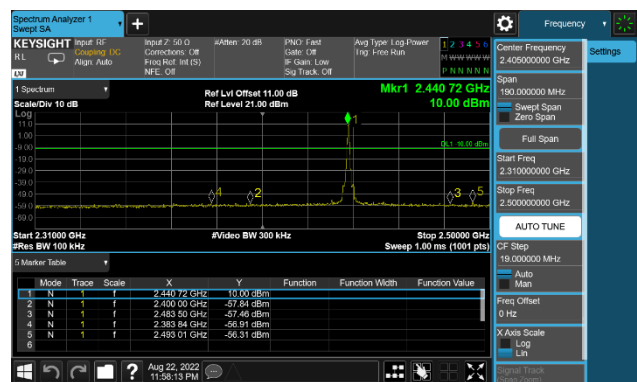
#### CH00 (2402MHz) DH5(1Mbps)



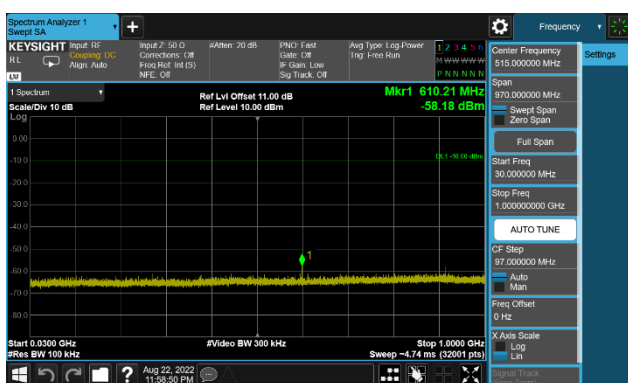
#### CH00 (2402MHz) DH5(1Mbps)



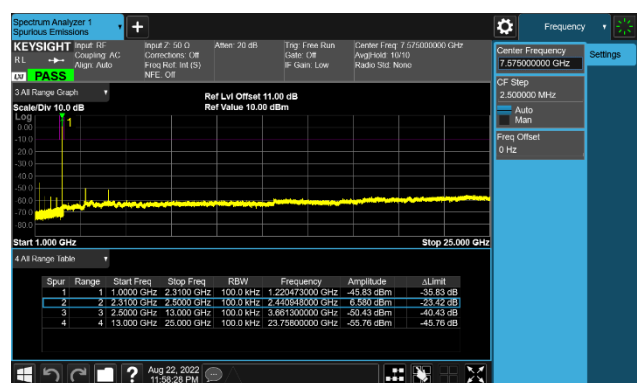
#### CH39 (2441MHz) DH5(1Mbps)



#### CH39 (2441MHz) DH5(1Mbps)

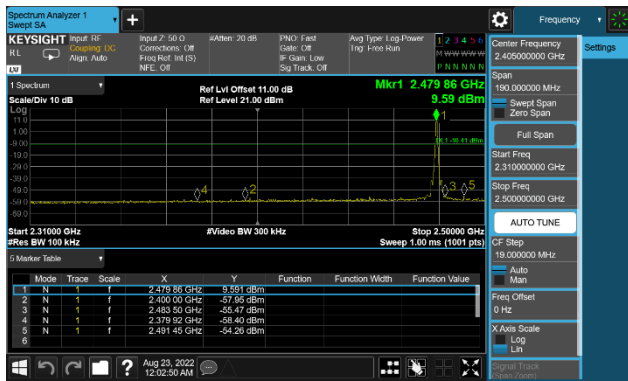


#### CH39 (2441MHz) DH5(1Mbps)

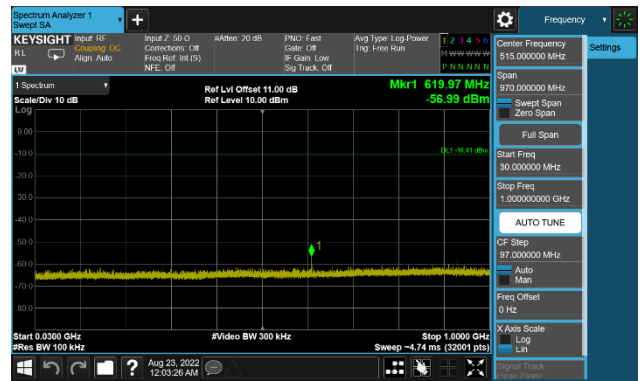




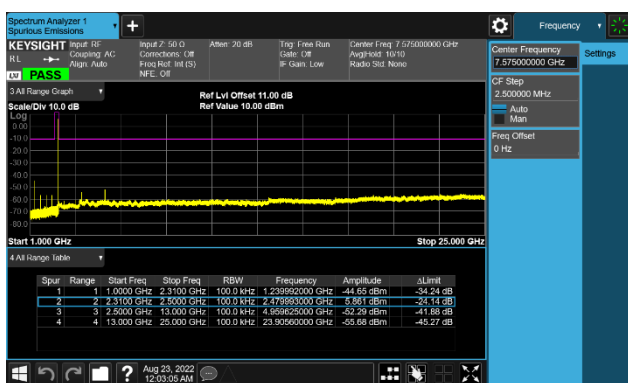
### CH78 (2480MHz) DH5(1Mbps)



### CH78 (2480MHz) DH5(1Mbps)



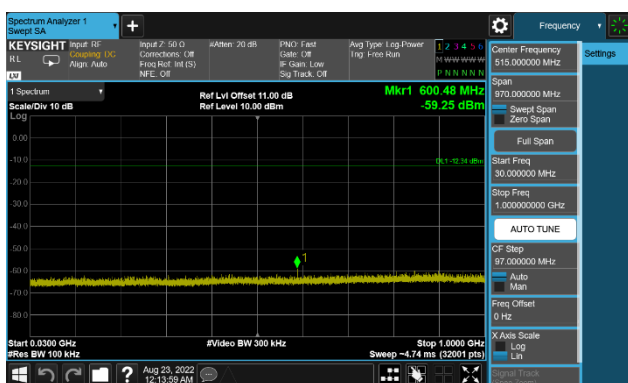
### CH78 (2480MHz) DH5(1Mbps)



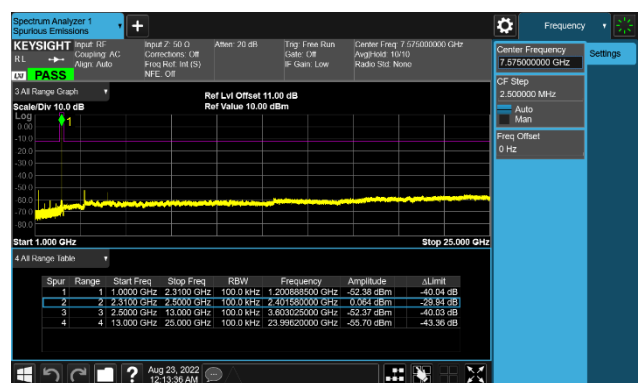
### CH00 (2402MHz) 3-DH5(3Mbps)

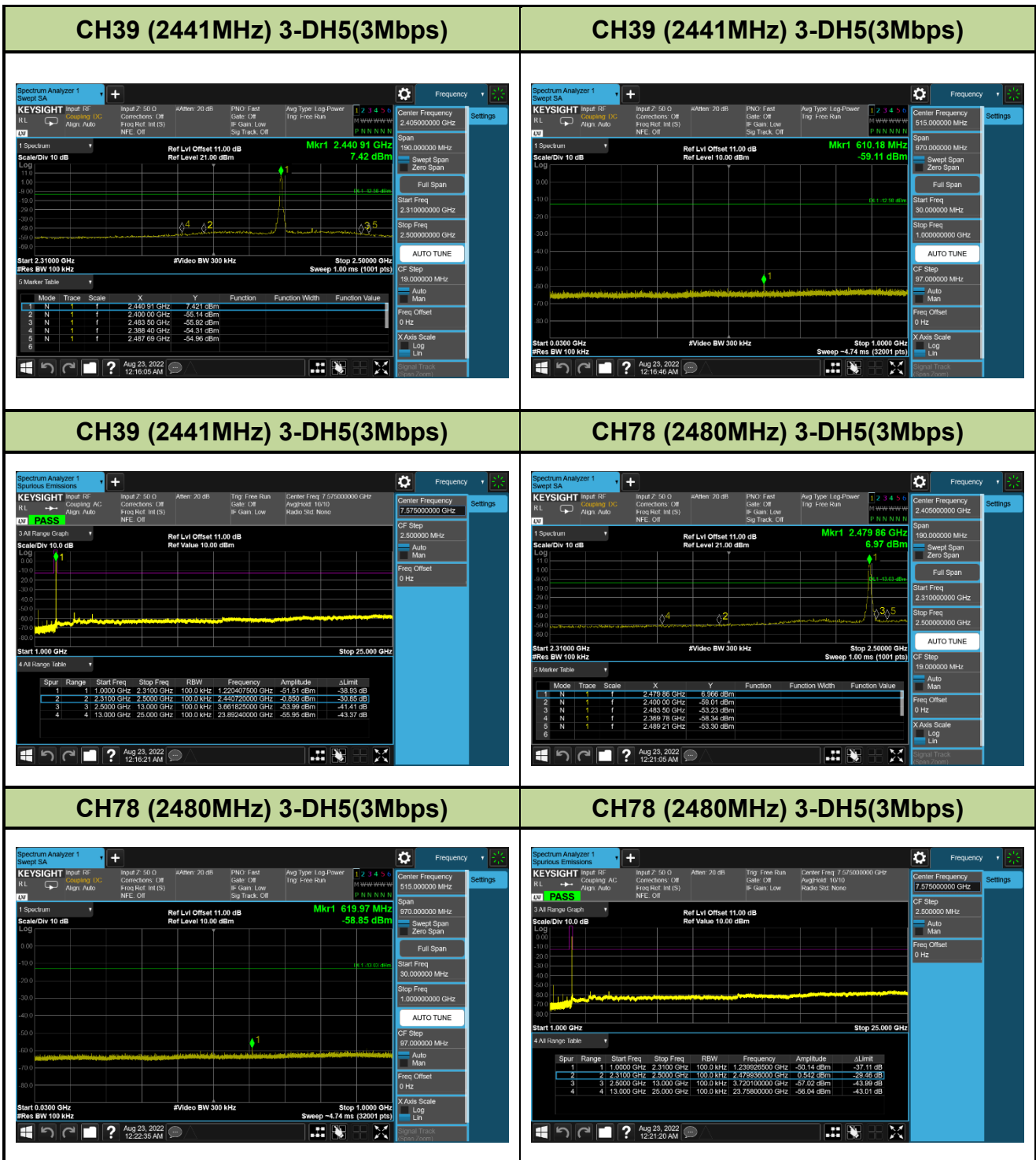


### CH00 (2402MHz) 3-DH5(3Mbps)



### CH00 (2402MHz) 3-DH5(3Mbps)

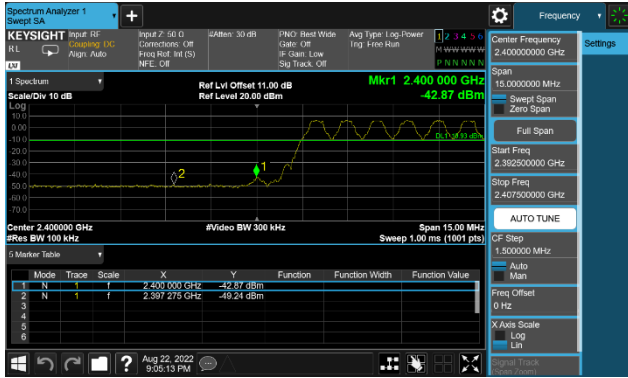




### Band Edge With Hopping On\_ Left Ear

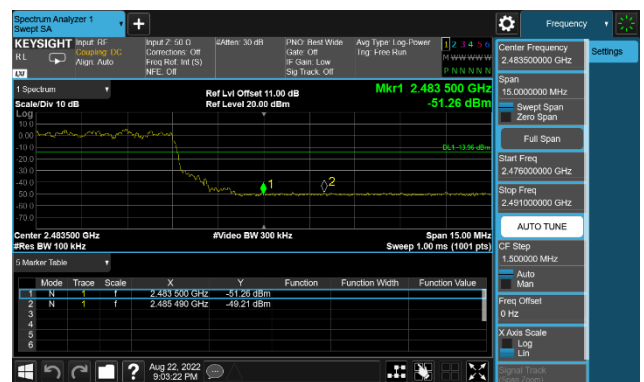
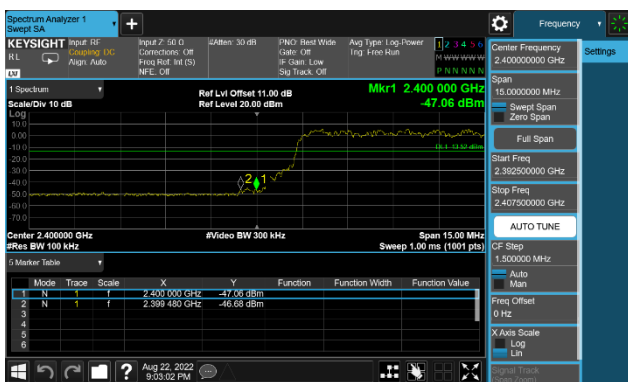
**CH00 (2402MHz) DH5(1Mbps)**

**CH78 (2480MHz) DH5(1Mbps)**



**CH00 (2402MHz) 3-DH5(3Mbps)**

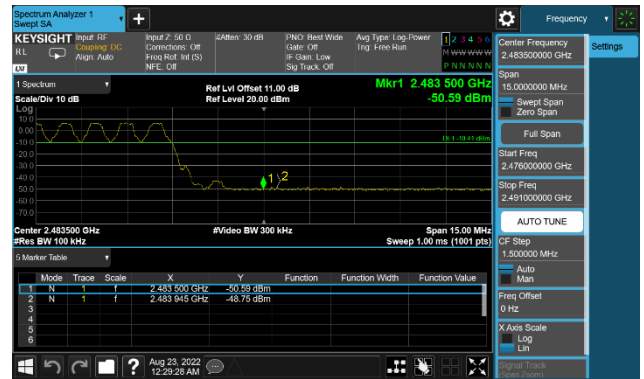
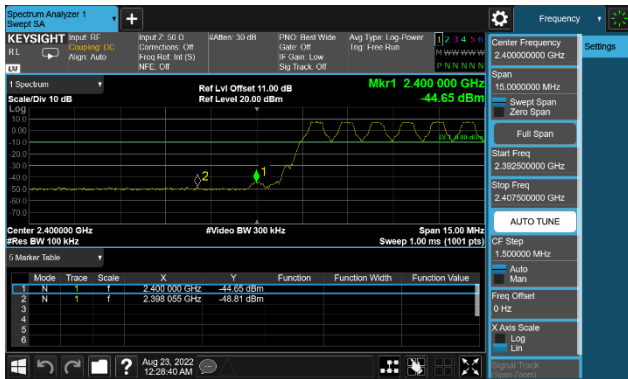
**CH78 (2480MHz) 3-DH5(3Mbps)**



## Band Edge With Hopping On\_ Right Ear

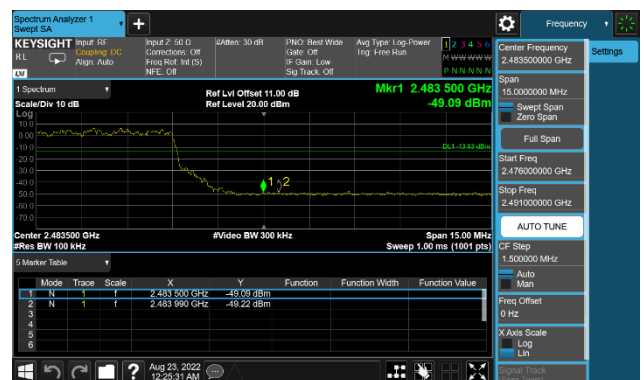
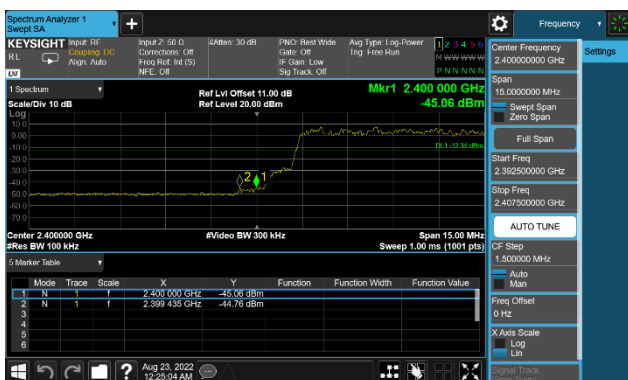
**CH00 (2402MHz) DH5(1Mbps)**

**CH78 (2480MHz) DH5(1Mbps)**



**CH00 (2402MHz) 3-DH5(3Mbps)**

**CH78 (2480MHz) 3-DH5(3Mbps)**



## 7.8. Radiated Spurious Emission Measurement

### 7.8.1. 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 [V/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

### 7.8.2. Test Procedure Used

ANSI C63.10-2013 - Section 11.12.1

### 7.8.3. Test Setting

#### Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 \* RBW
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold

- Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

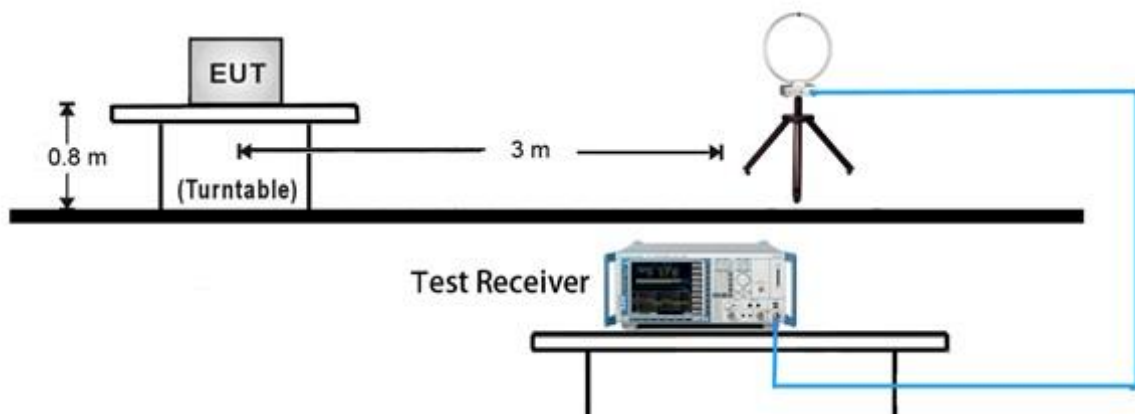
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

#### **Average Field Strength Measurements**

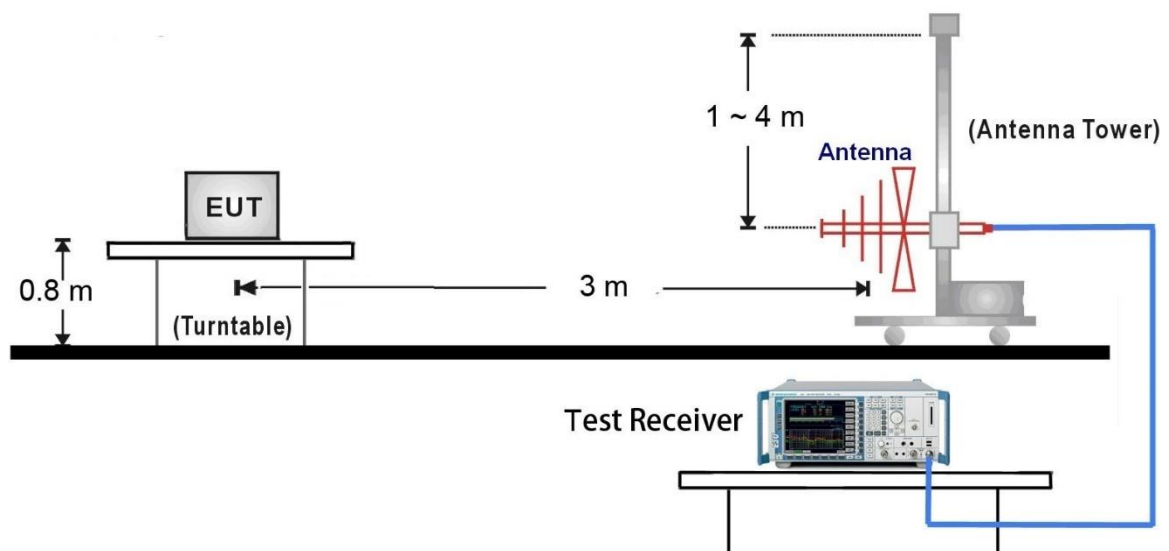
- Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- RBW = 1MHz
- VBW  $\geq 1/T$
- De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). 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
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold
- Allow max hold to run for at least 50 times (1/duty cycle) traces

### 7.8.4. Test Setup

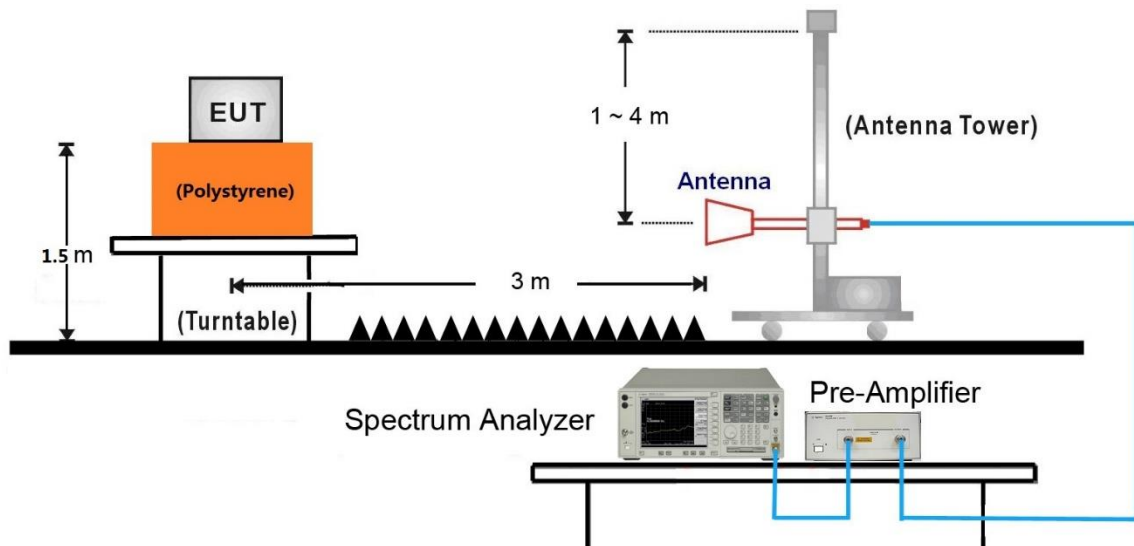
#### 9kHz ~ 30MHz Test Setup:



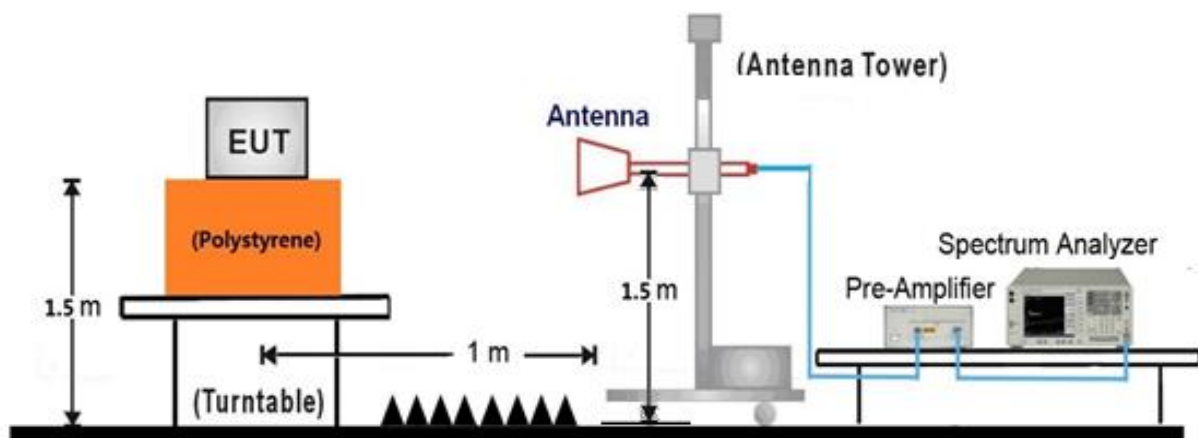
#### 30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



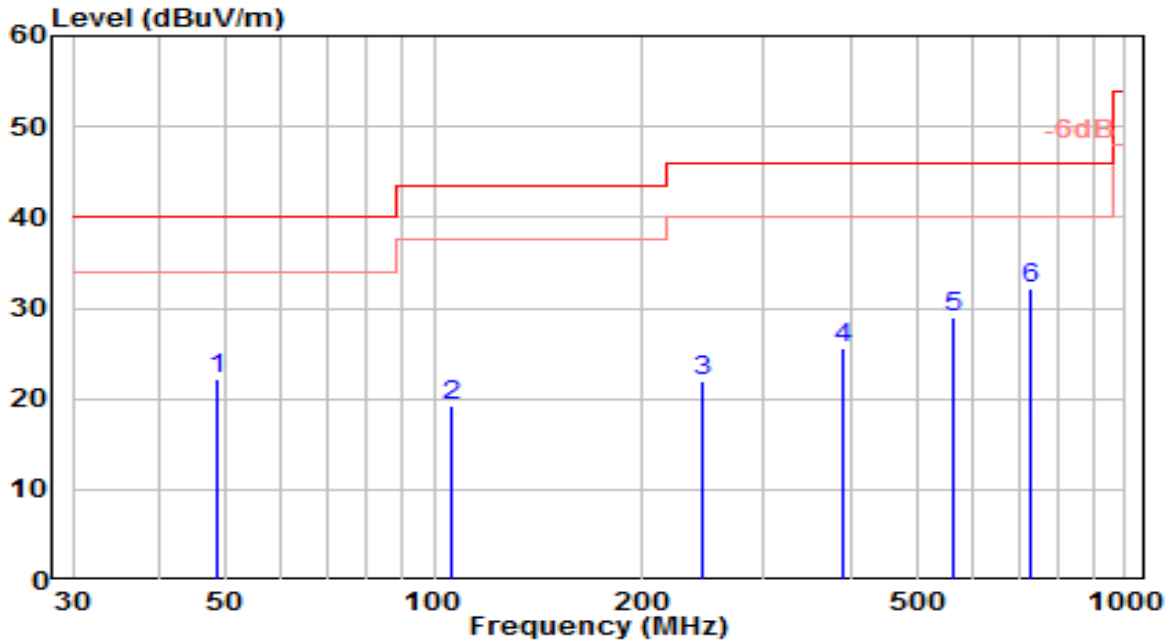
18GHz ~40GHz Test Setup:





### 7.8.5. Test Result

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	VULB 9162	Temp. / Humidity	24°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jeff
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC

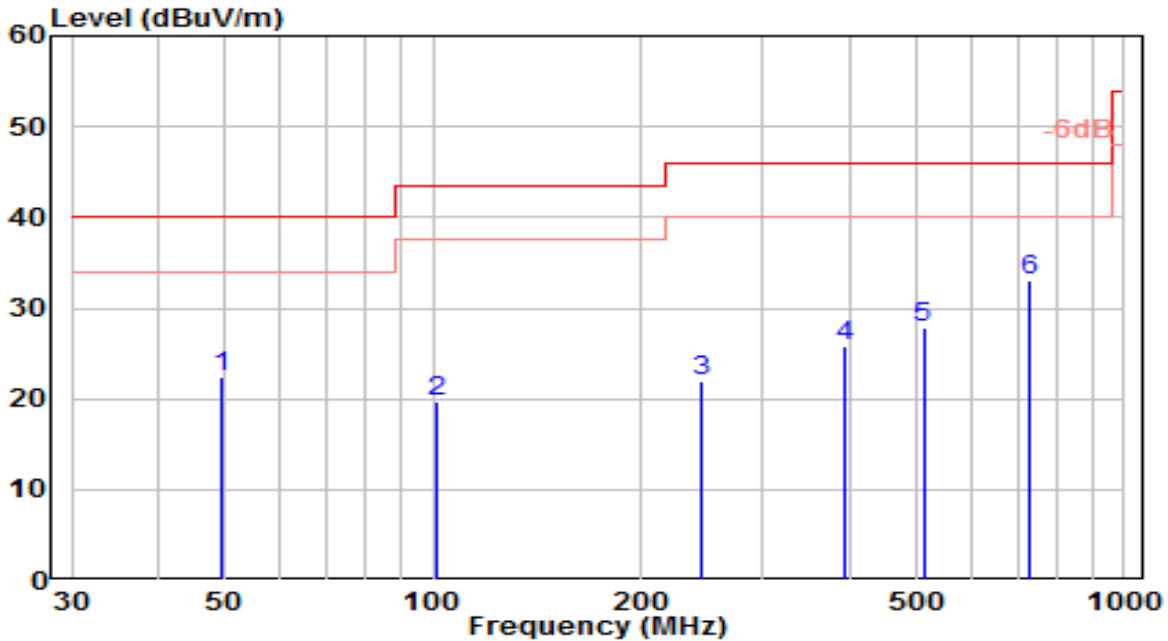


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	48.430	0.84	21.40	22.24	-17.76	40.00	100	340	QP
2	105.660	0.31	19.01	19.33	-24.17	43.50	100	230	QP
3	245.340	1.38	20.69	22.07	-23.93	46.00	100	225	QP
4	391.810	1.42	24.07	25.50	-20.50	46.00	100	300	QP
5	563.500	1.97	27.06	29.03	-16.97	46.00	100	170	QP
6	* 730.340	2.36	29.74	32.10	-13.90	46.00	100	275	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	VULB 9162	Temp. / Humidity	24°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Jeff
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC

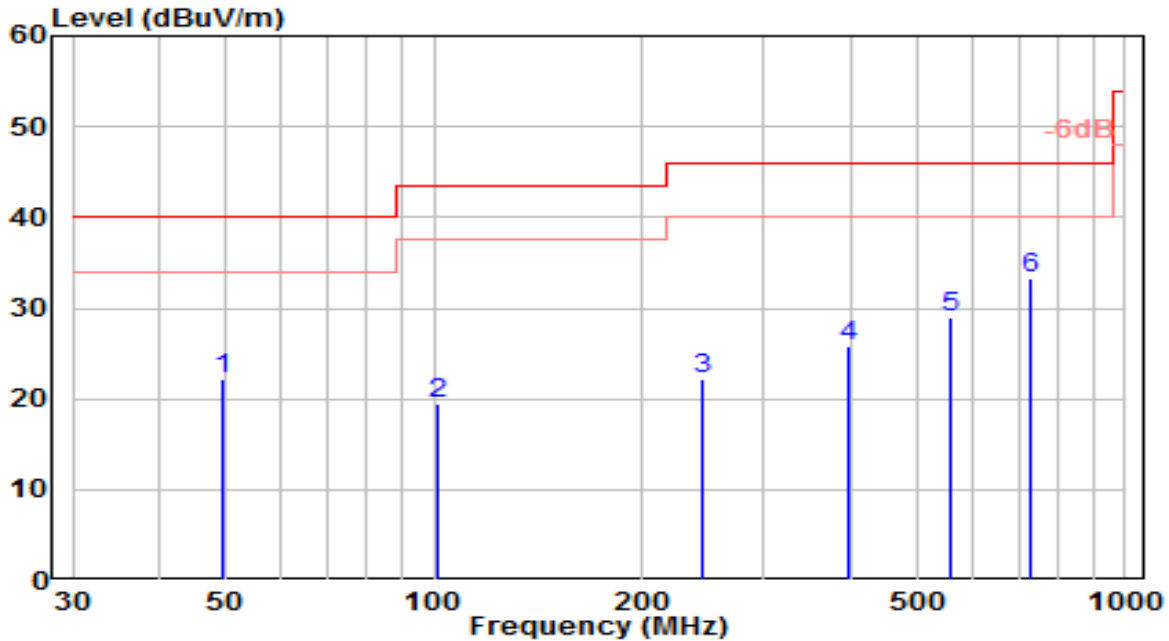


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	49.400	0.99	21.43	22.42	-17.58	40.00	100	120	QP
2	100.810	0.41	19.24	19.66	-23.84	43.50	100	115	QP
3	245.340	1.34	20.69	22.03	-23.97	46.00	100	280	QP
4	395.690	1.64	24.16	25.80	-20.20	46.00	100	80	QP
5	512.090	1.58	26.19	27.77	-18.23	46.00	100	135	QP
6	* 731.310	3.29	29.75	33.04	-12.96	46.00	100	45	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	VULB 9162	Temp. / Humidity	24°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Jeff
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC

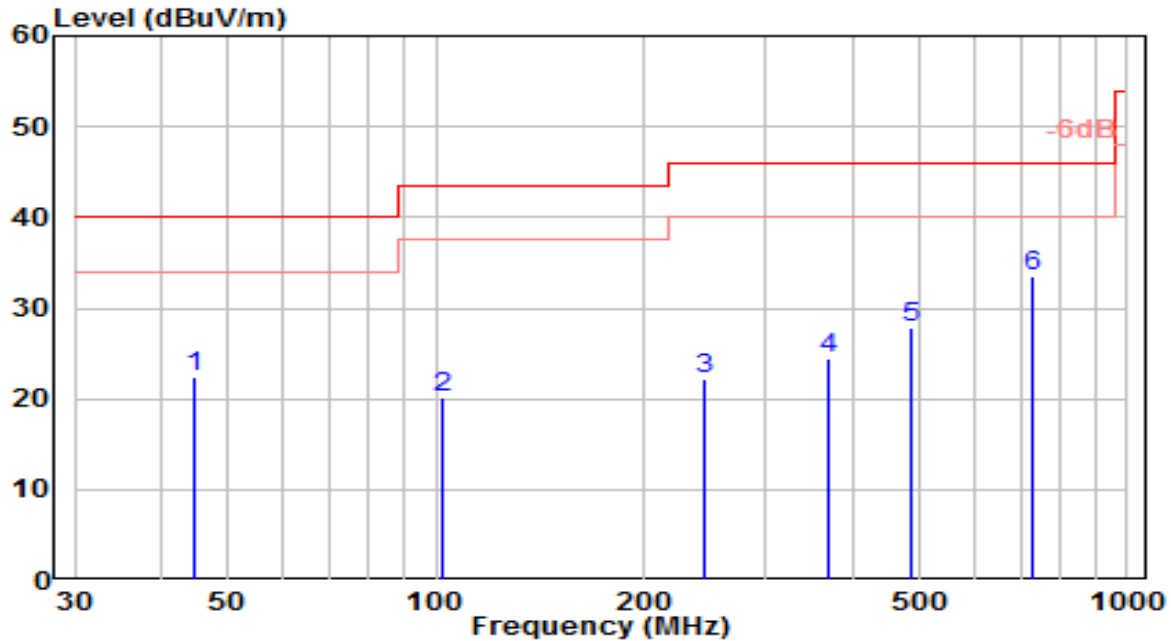


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	49.400	0.74	21.43	22.17	-17.83	40.00	100	150	QP
2	100.810	0.24	19.24	19.48	-24.02	43.50	100	310	QP
3	244.370	1.63	20.64	22.27	-23.73	46.00	100	85	QP
4	398.600	1.50	24.23	25.73	-20.27	46.00	100	290	QP
5	556.710	2.05	26.88	28.93	-17.07	46.00	100	160	QP
6	* 731.310	3.46	29.75	33.21	-12.79	46.00	100	320	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	VULB 9162	Temp. / Humidity	24°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Jeff
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC

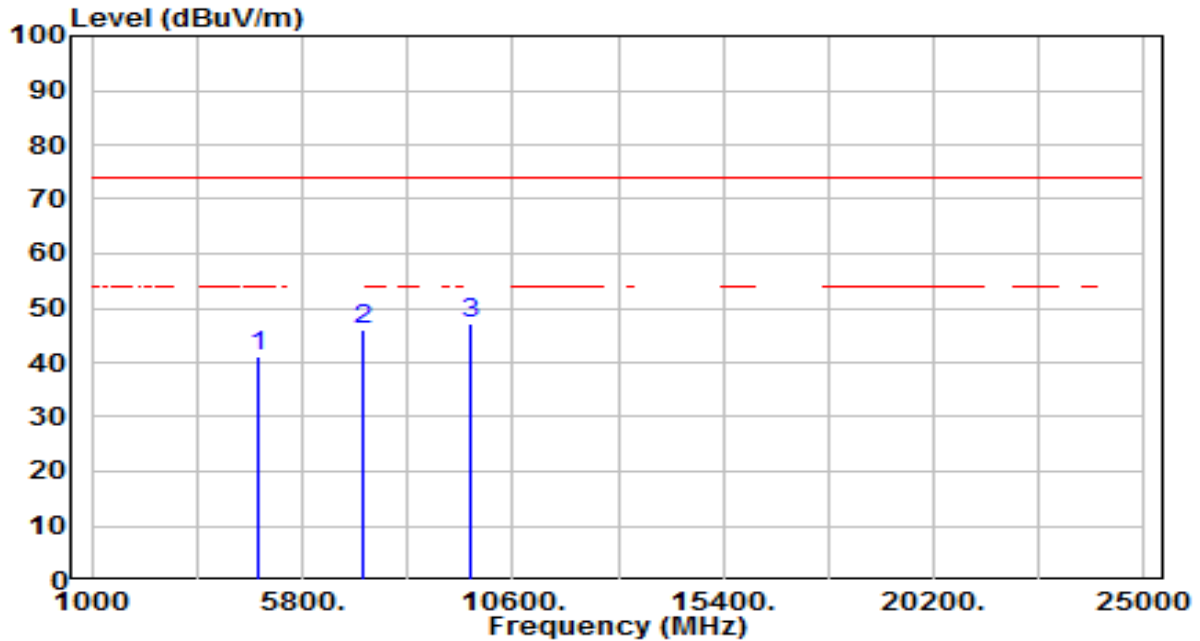


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	44.550	1.10	21.21	22.31	-17.69	40.00	100	35	QP
2	101.780	0.98	19.20	20.18	-23.32	43.50	100	240	QP
3	244.370	1.66	20.64	22.29	-23.71	46.00	100	250	QP
4	370.470	0.94	23.59	24.53	-21.47	46.00	100	125	QP
5	485.900	2.31	25.64	27.95	-18.05	46.00	100	220	QP
6	* 731.310	3.72	29.75	33.47	-12.53	46.00	100	355	QP

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Left ear	Test Voltage	By Notebook PC

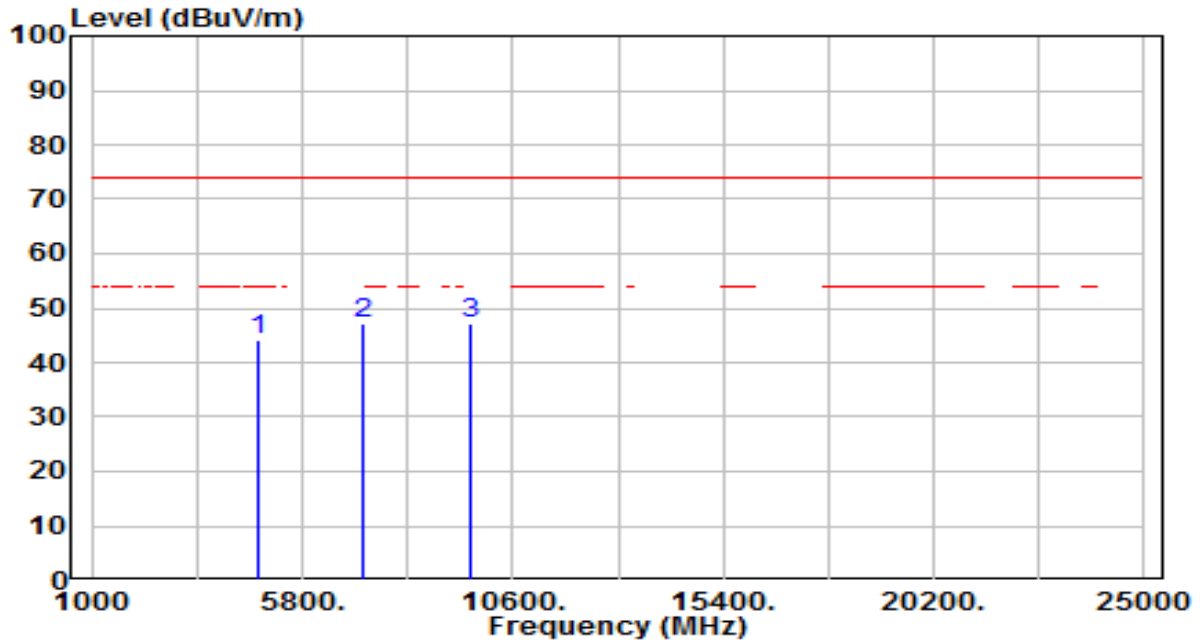


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	37.44	3.61	41.05	-32.95	74.00	150	360	Peak
2	7206.000	34.34	11.68	46.02	-27.98	74.00	150	360	Peak
3	* 9608.000	31.33	15.69	47.02	-26.98	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Left ear	Test Voltage	By Notebook PC

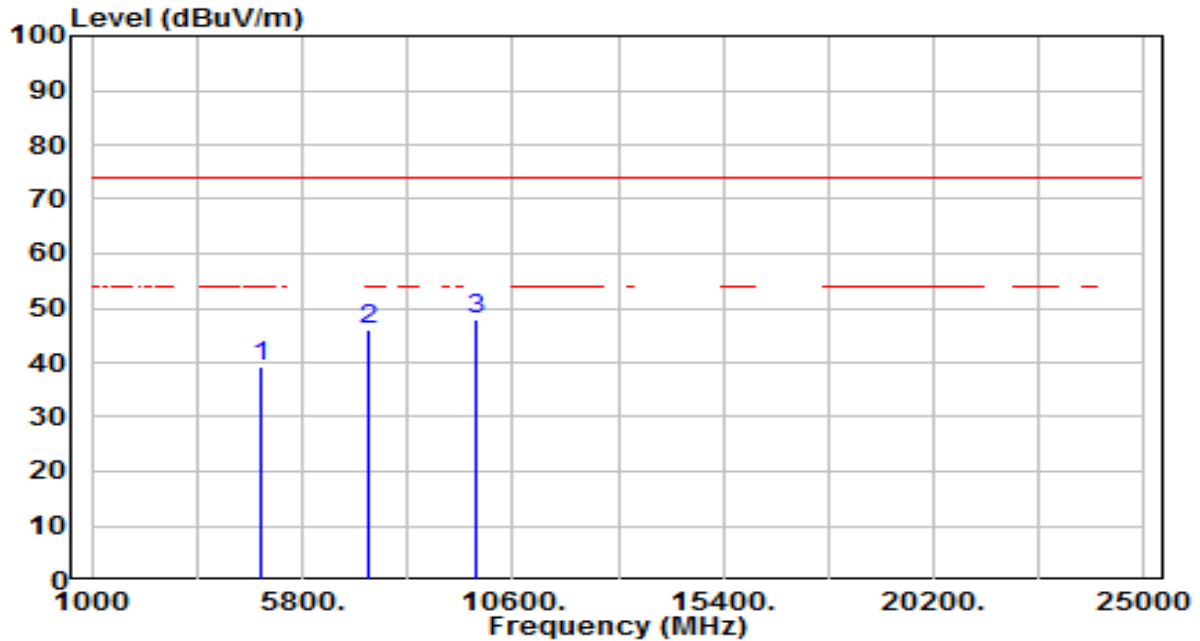


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	40.39	3.61	44.00	-30.00	74.00	150	360	Peak
2	7206.000	35.42	11.68	47.10	-26.90	74.00	150	360	Peak
3	* 9608.000	31.56	15.69	47.25	-26.75	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC

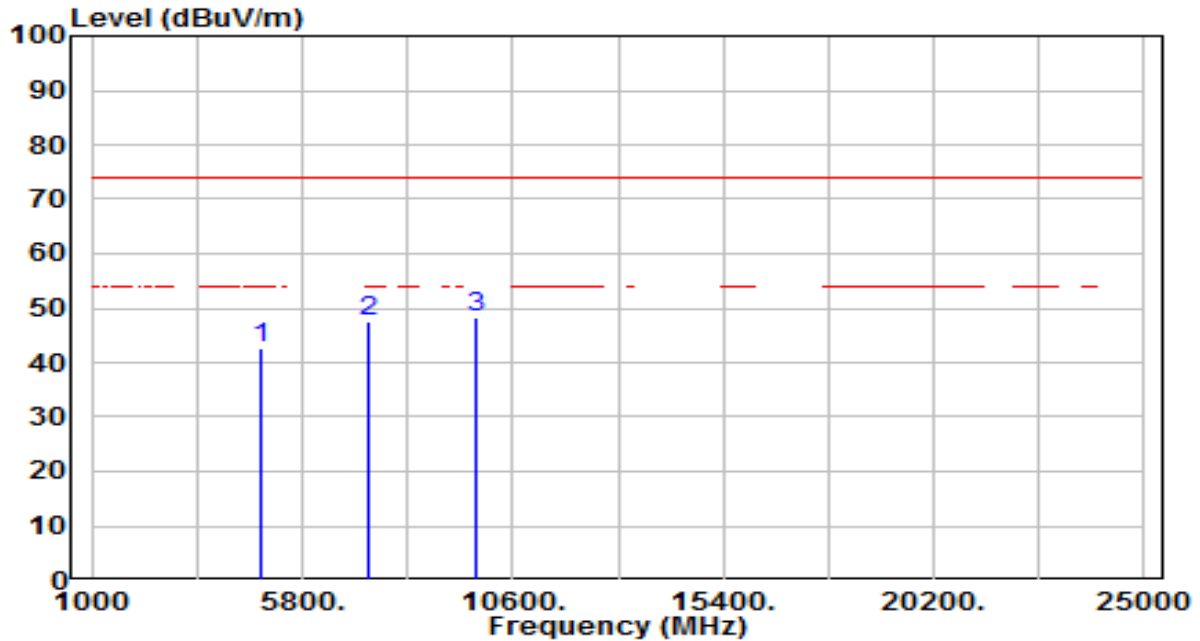


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	35.67	3.75	39.42	-34.58	74.00	150	360	Peak
2	7323.000	33.92	12.16	46.08	-27.92	74.00	150	360	Peak
3	* 9764.000	32.01	15.98	47.99	-26.01	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC



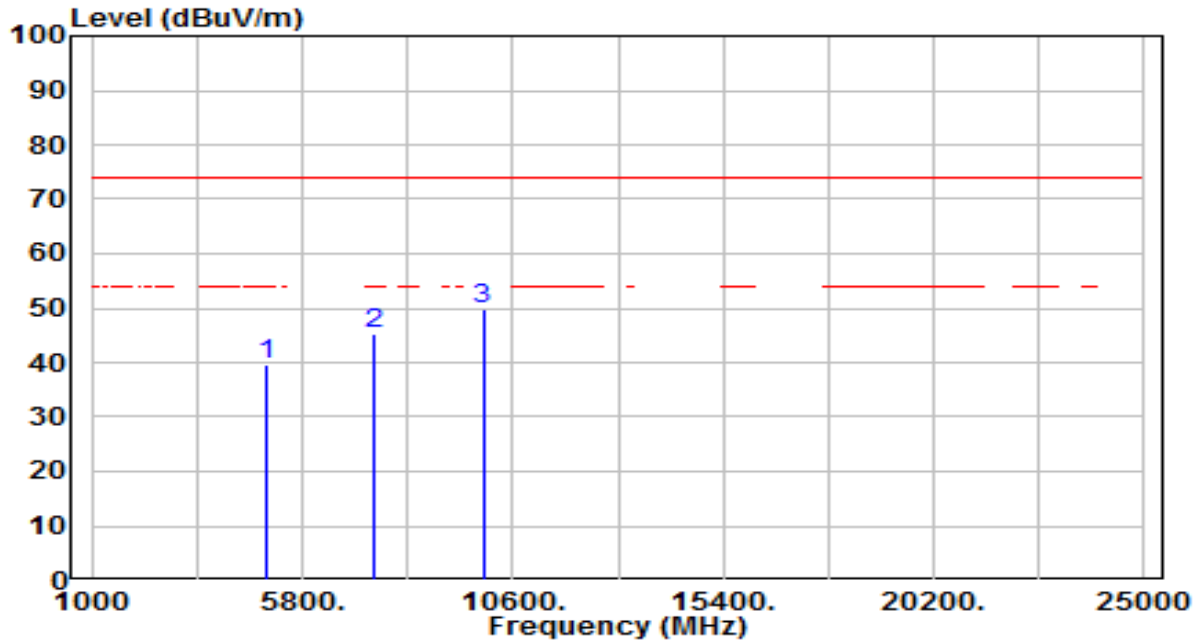
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	38.72	3.75	42.47	-31.53	74.00	150	360	Peak
2	7323.000	35.39	12.16	47.55	-26.45	74.00	150	360	Peak
3	* 9764.000	32.48	15.98	48.46	-25.54	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Left ear	Test Voltage	By Notebook PC

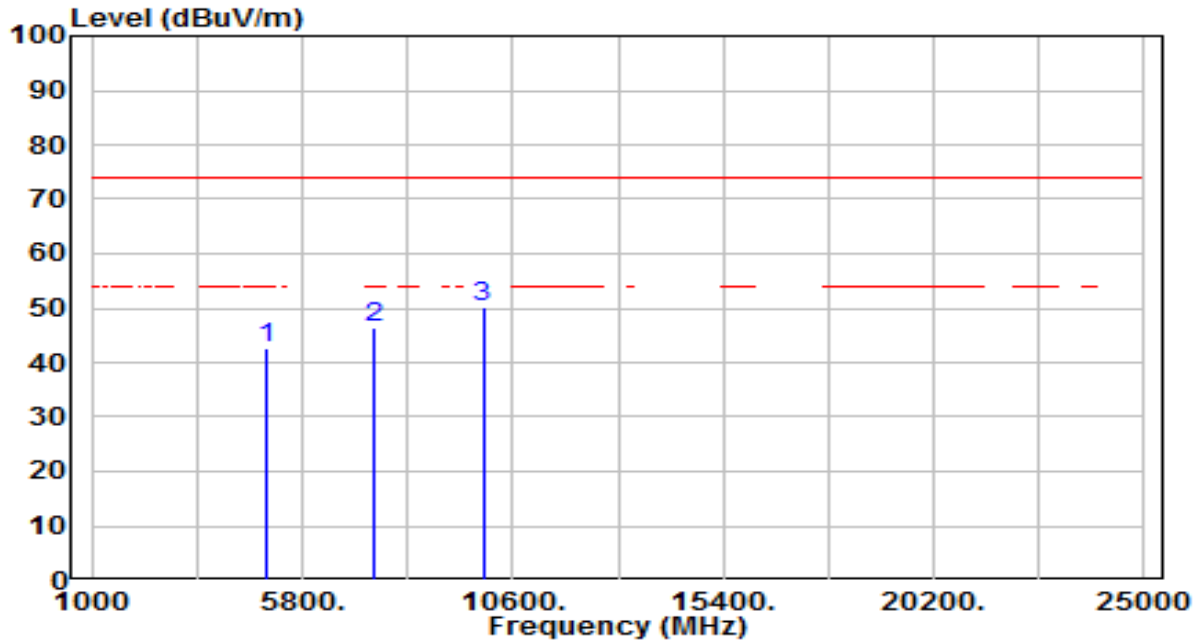


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	35.62	3.90	39.51	-34.49	74.00	150	360	Peak
2	7440.000	32.81	12.65	45.45	-28.55	74.00	150	360	Peak
3	* 9920.000	33.45	16.27	49.72	-24.28	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Left ear	Test Voltage	By Notebook PC

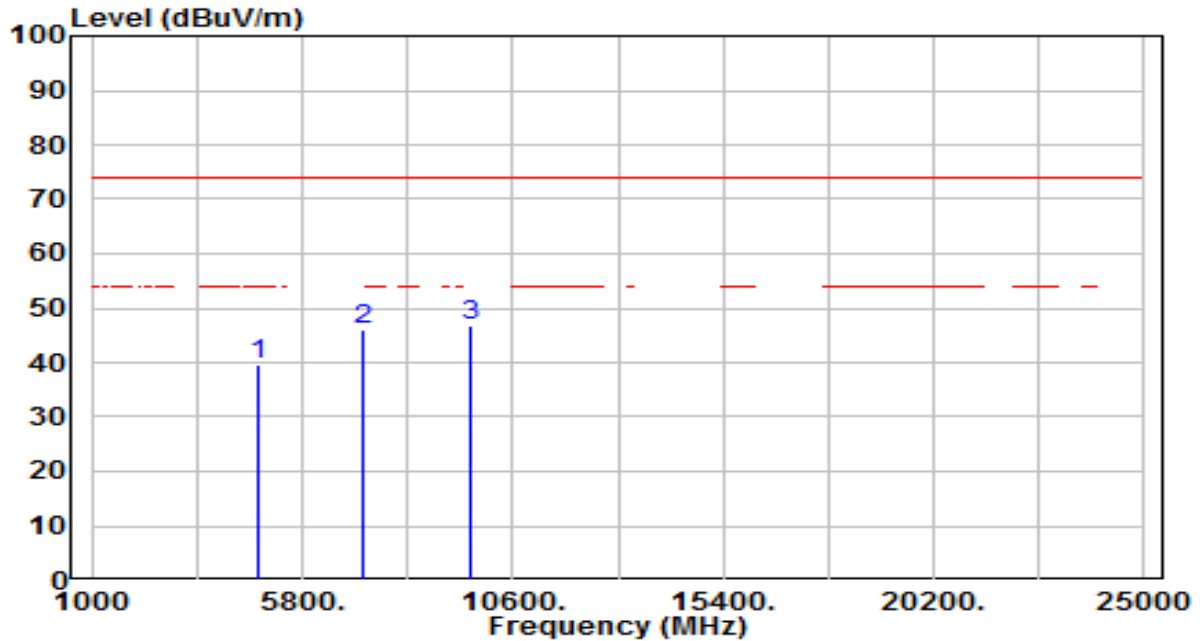


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	38.85	3.90	42.75	-31.25	74.00	150	360	Peak
2	7440.000	33.61	12.65	46.26	-27.74	74.00	150	360	Peak
3	* 9920.000	33.74	16.27	50.01	-23.99	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Left ear	Test Voltage	By Notebook PC

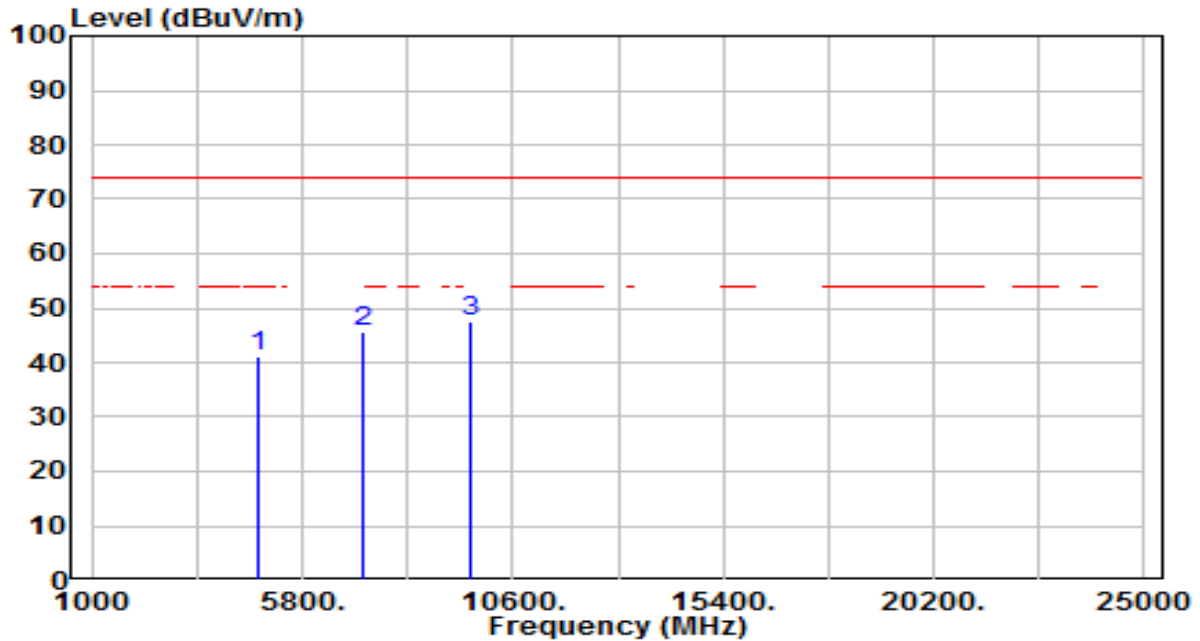


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	35.85	3.61	39.46	-34.54	74.00	150	360	Peak
2	7206.000	34.19	11.68	45.87	-28.13	74.00	150	360	Peak
3	* 9608.000	31.21	15.69	46.90	-27.10	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Left ear	Test Voltage	By Notebook PC

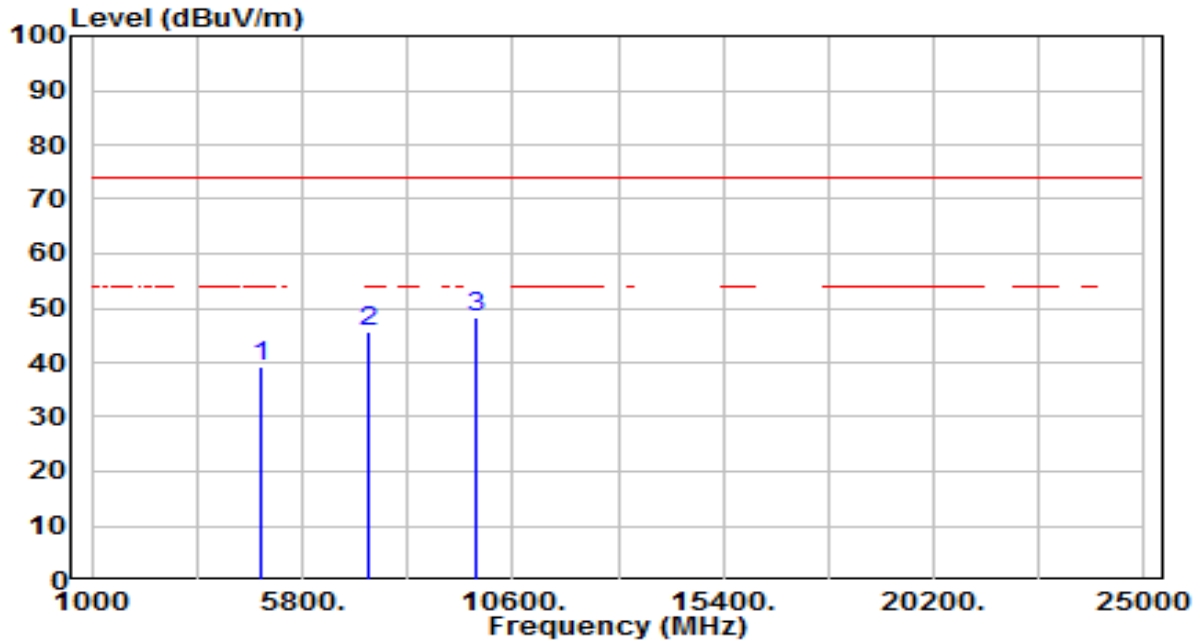


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	37.35	3.61	40.96	-33.04	74.00	150	360	Peak
2	7206.000	33.91	11.68	45.59	-28.41	74.00	150	360	Peak
3	* 9608.000	31.79	15.69	47.48	-26.52	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 39_Left ear	Test Voltage	By Notebook PC

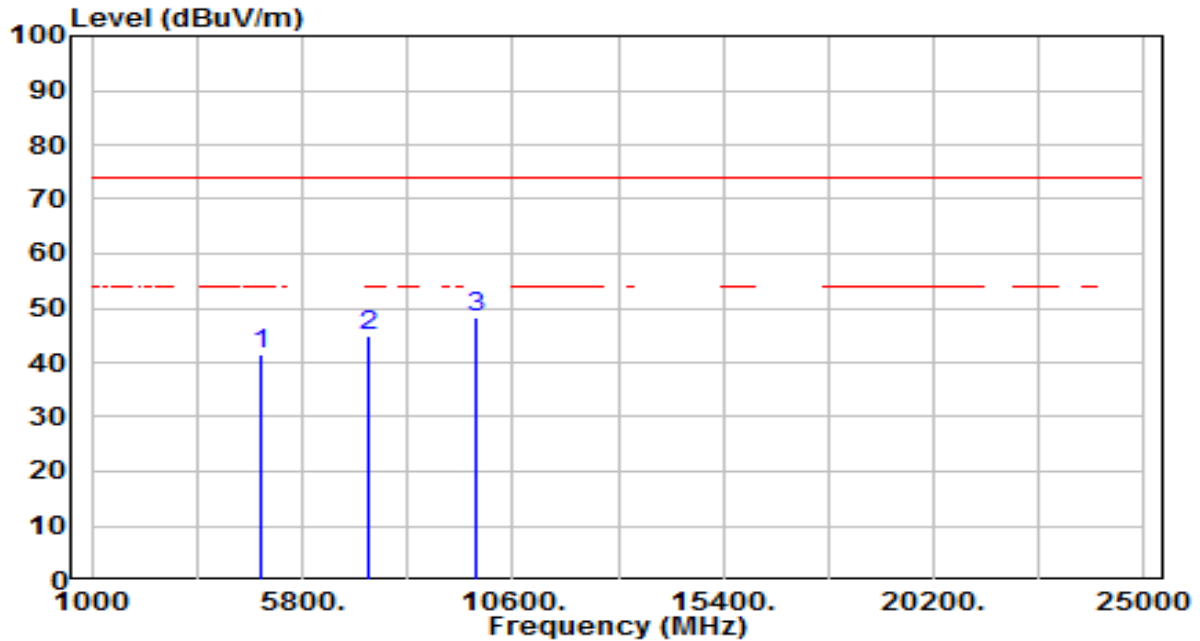


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	35.66	3.75	39.42	-34.58	74.00	150	360	Peak
2	7323.000	33.67	12.16	45.83	-28.17	74.00	150	360	Peak
3	* 9764.000	32.37	15.98	48.35	-25.65	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 39_Left ear	Test Voltage	By Notebook PC

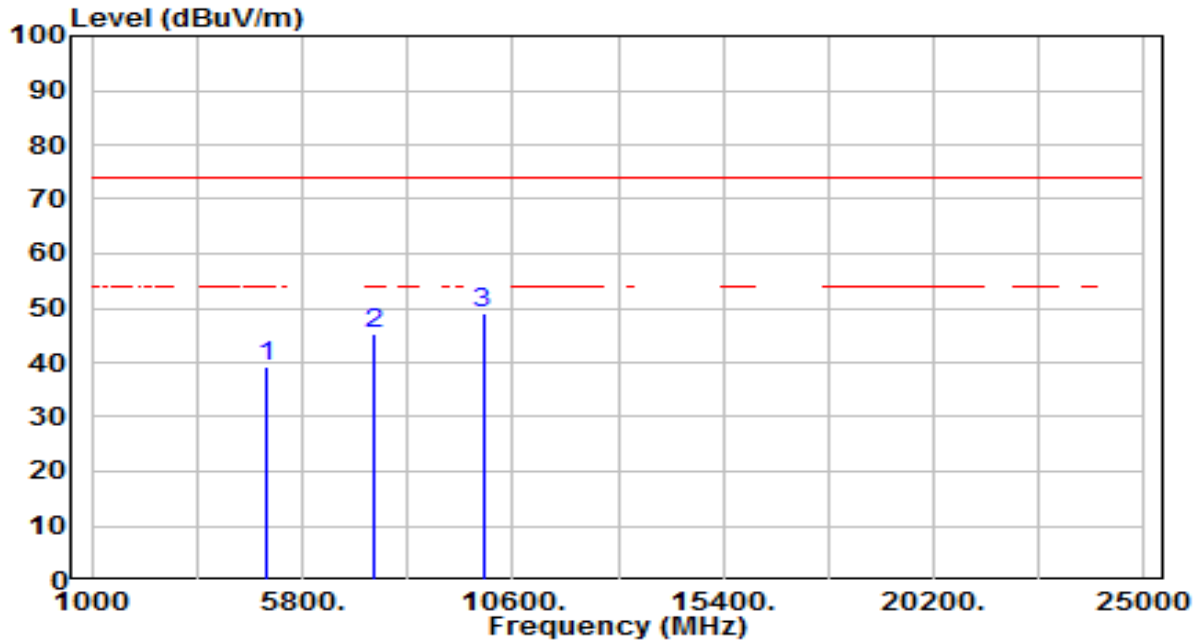


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	37.78	3.75	41.54	-32.46	74.00	150	360	Peak
2	7323.000	32.72	12.16	44.88	-29.12	74.00	150	360	Peak
3	* 9764.000	32.30	15.98	48.28	-25.72	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Left ear	Test Voltage	By Notebook PC

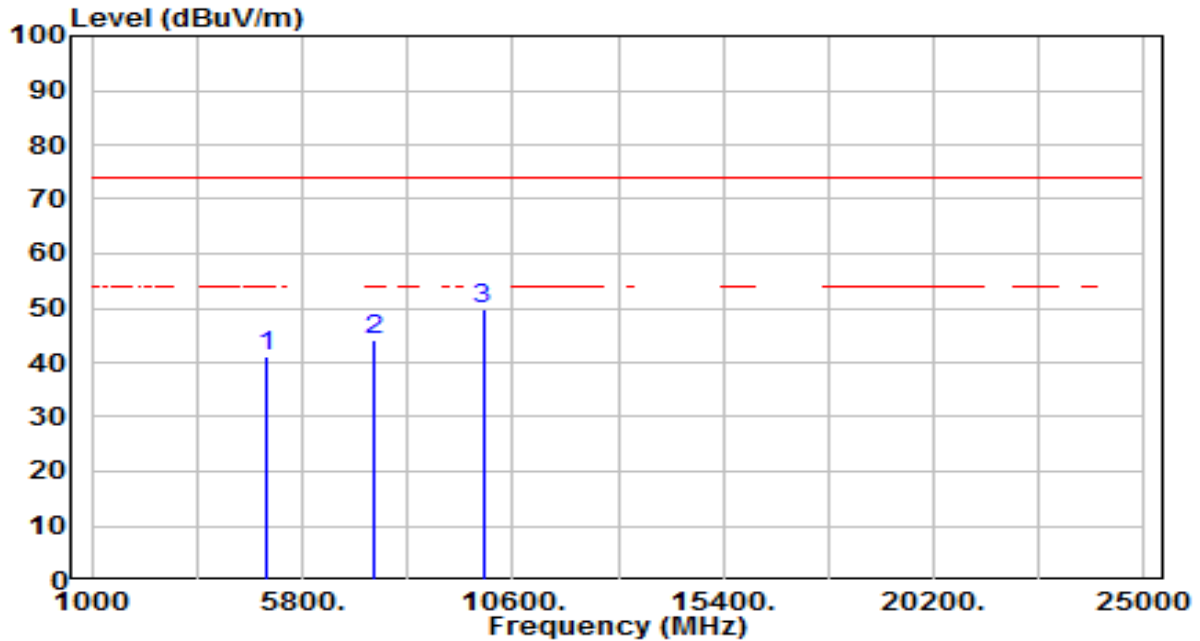


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	35.29	3.90	39.19	-34.81	74.00	150	360	Peak
2	7440.000	32.57	12.65	45.22	-28.78	74.00	150	360	Peak
3	* 9920.000	32.93	16.27	49.20	-24.80	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Left ear	Test Voltage	By Notebook PC



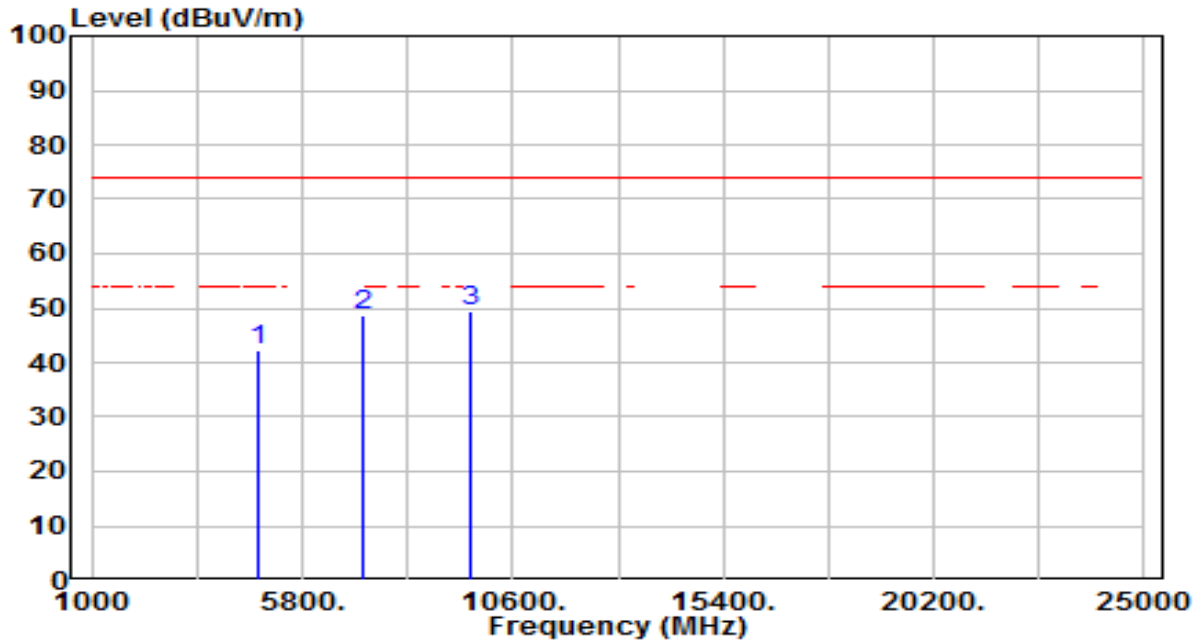
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	37.15	3.90	41.05	-32.95	74.00	150	360	Peak
2	7440.000	31.64	12.65	44.28	-29.72	74.00	150	360	Peak
3	* 9920.000	33.59	16.27	49.86	-24.14	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Right ear	Test Voltage	By Notebook PC

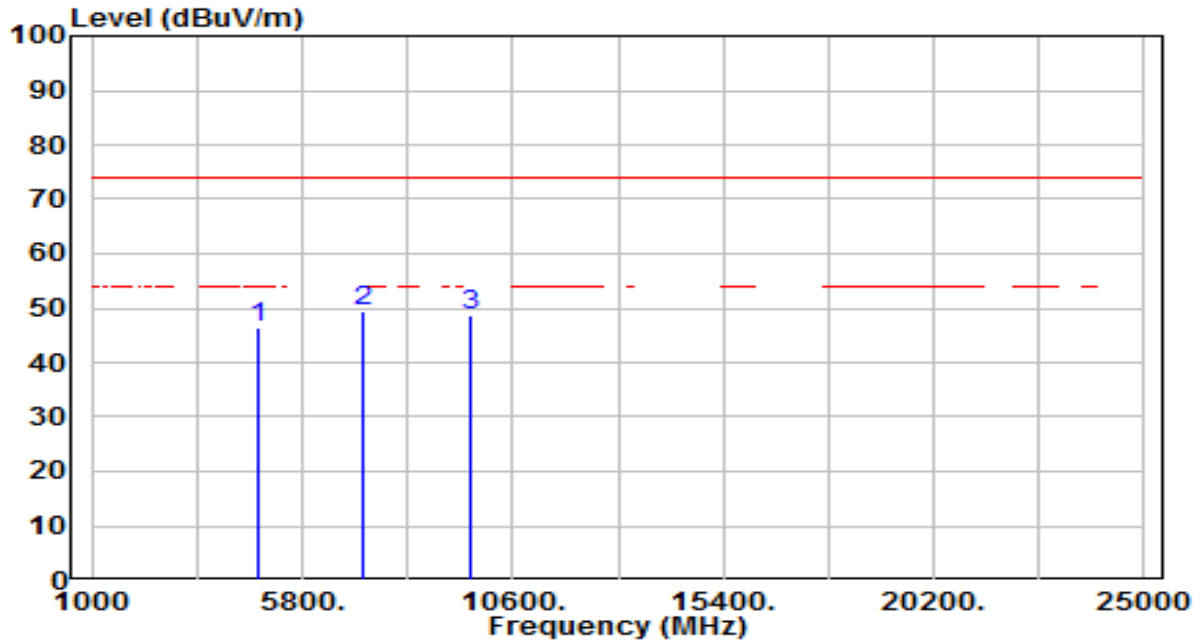


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	38.83	3.61	42.43	-31.57	74.00	150	360	Peak
2	7206.000	36.84	11.68	48.52	-25.48	74.00	150	360	Peak
3	* 9608.000	33.57	15.69	49.27	-24.73	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Right ear	Test Voltage	By Notebook PC

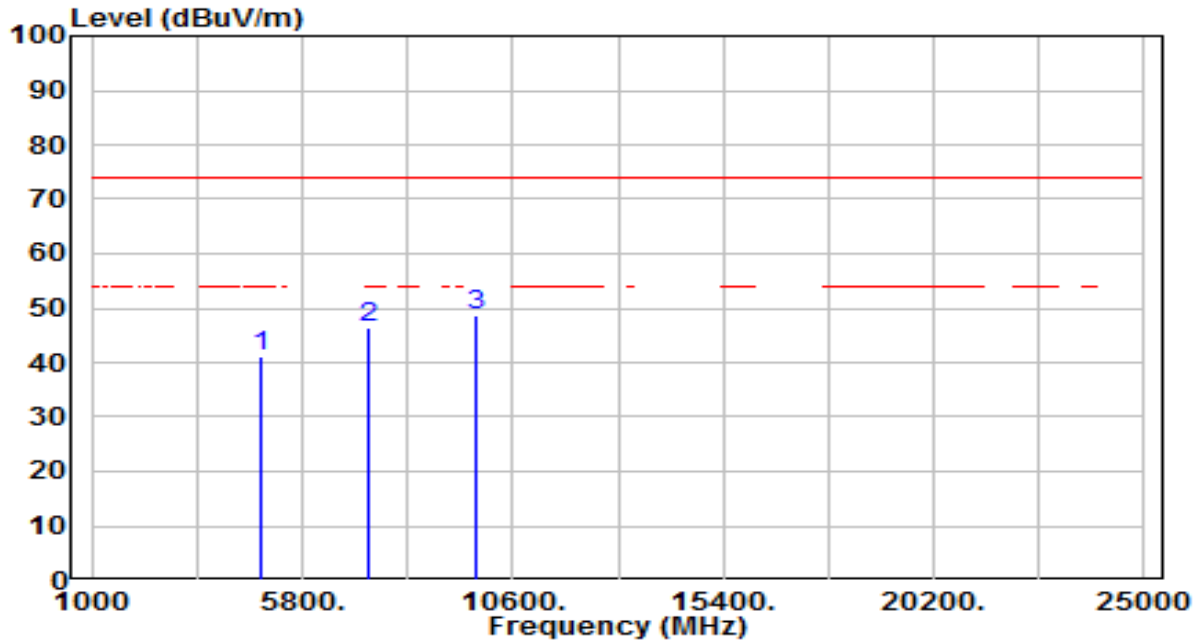


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	42.65	3.61	46.25	-27.75	74.00	150	360	Peak
2	* 7206.000	37.81	11.68	49.49	-24.51	74.00	150	360	Peak
3	9608.000	33.04	15.69	48.73	-25.27	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC

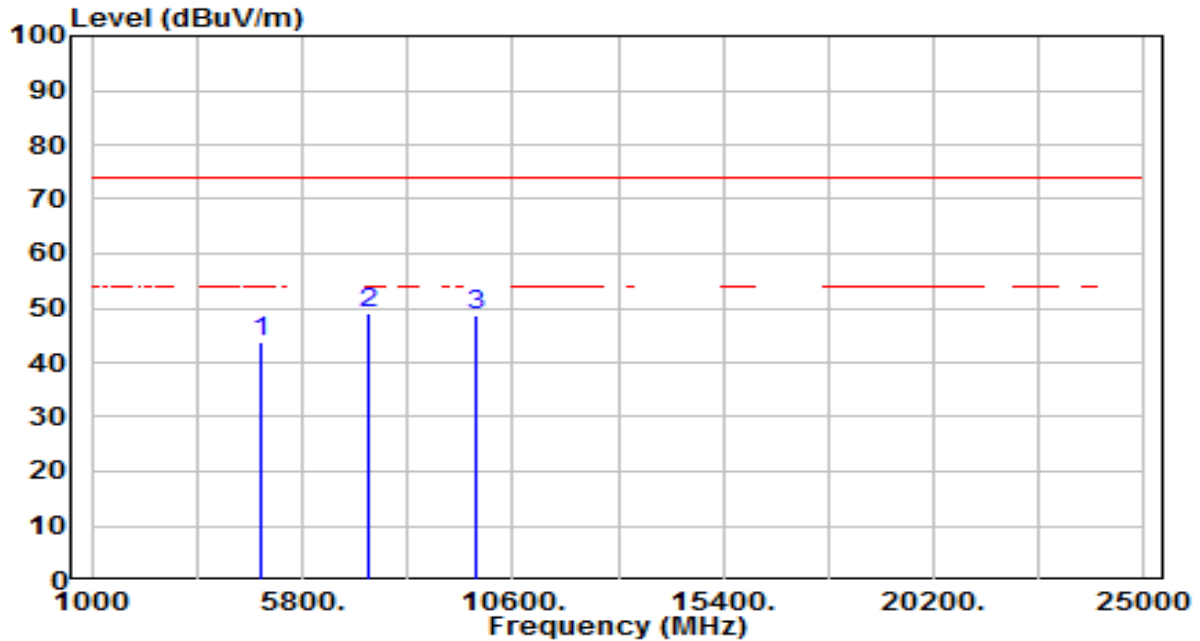


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	37.57	3.75	41.32	-32.68	74.00	150	360	Peak
2	7323.000	34.06	12.16	46.23	-27.77	74.00	150	360	Peak
3	* 9764.000	32.86	15.98	48.84	-25.16	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC

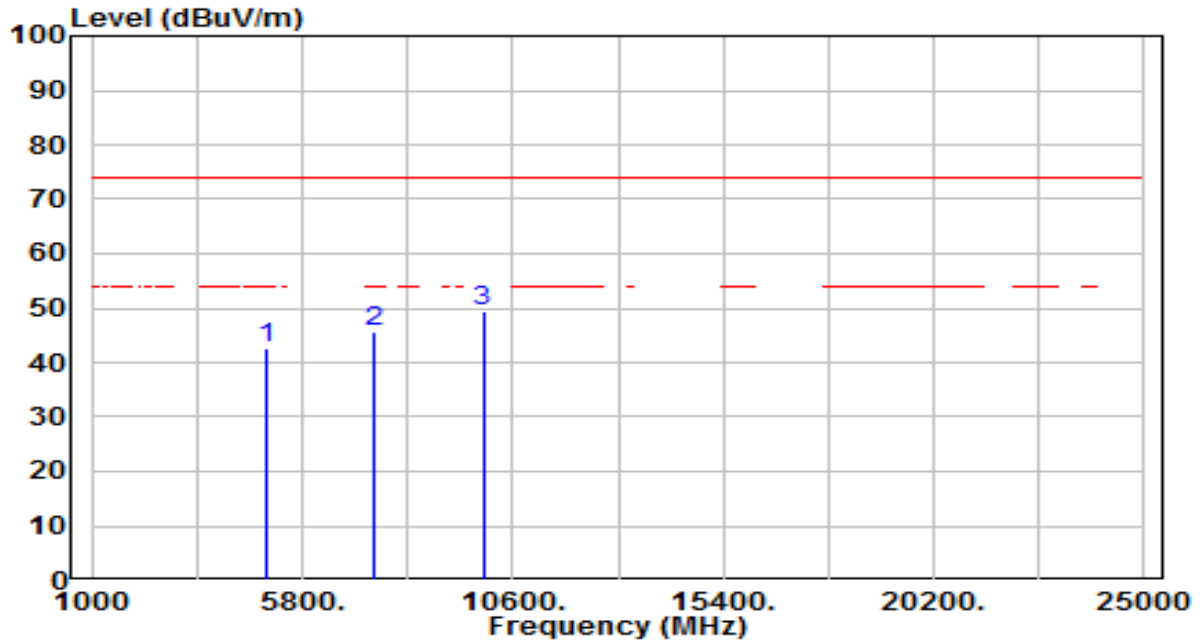


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	40.19	3.75	43.94	-30.06	74.00	150	360	Peak
2	* 7323.000	36.84	12.16	49.01	-24.99	74.00	150	360	Peak
3	9764.000	32.79	15.98	48.77	-25.23	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Right ear	Test Voltage	By Notebook PC

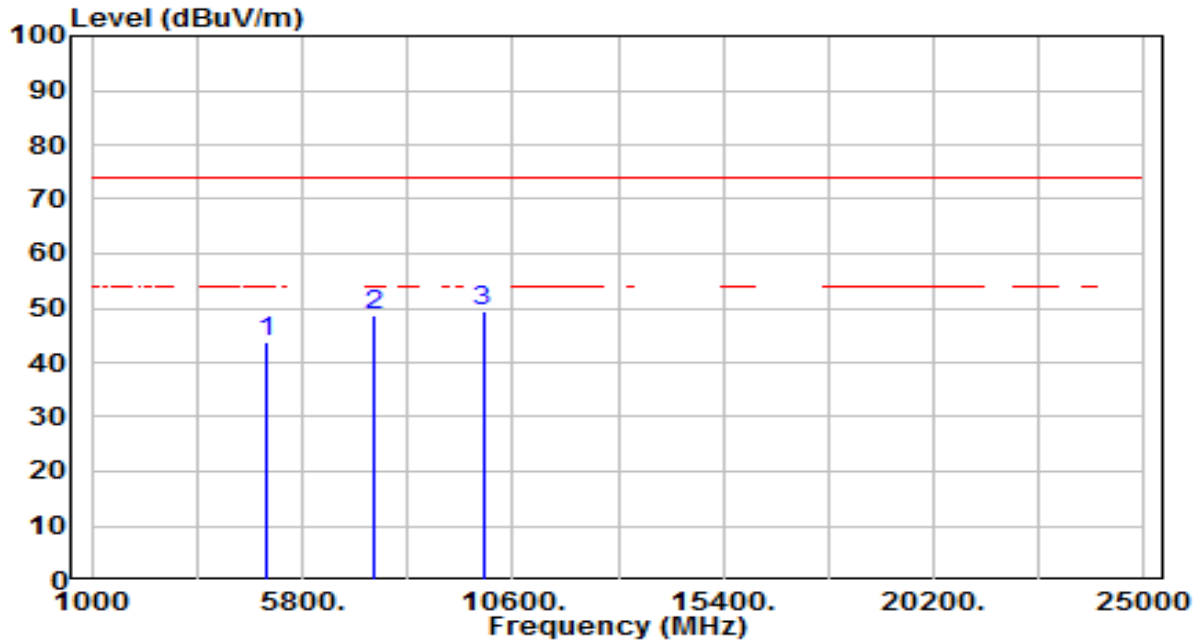


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	38.79	3.90	42.69	-31.31	74.00	150	360	Peak
2	7440.000	33.05	12.65	45.70	-28.30	74.00	150	360	Peak
3	* 9920.000	33.04	16.27	49.32	-24.68	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Right ear	Test Voltage	By Notebook PC

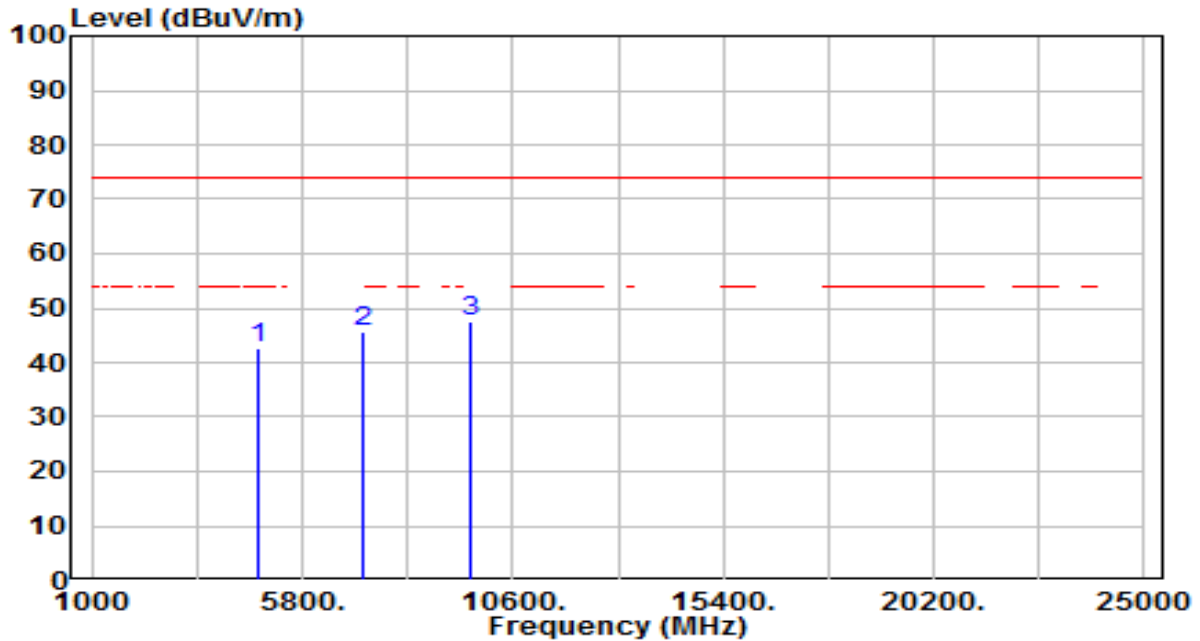


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	40.04	3.90	43.94	-30.06	74.00	150	360	Peak
2	7440.000	35.93	12.65	48.58	-25.42	74.00	150	360	Peak
3	* 9920.000	33.32	16.27	49.59	-24.41	74.00	150	360	Peak

Note:

- "\*" means this data is the worst emission level.
- C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
- Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
- The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Right ear	Test Voltage	By Notebook PC

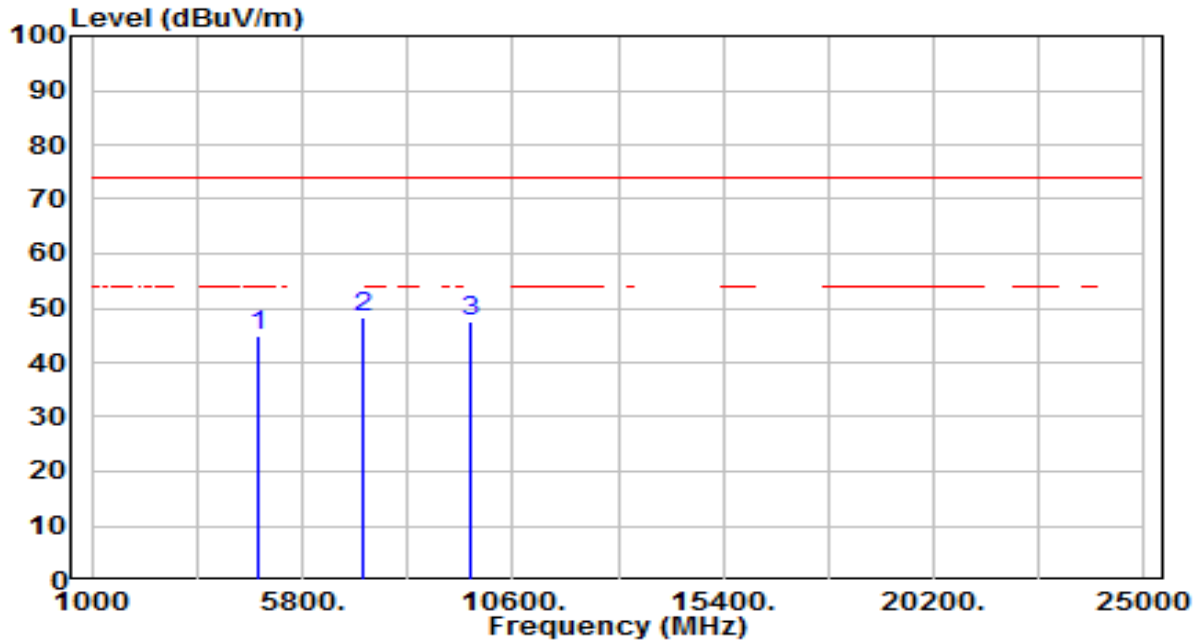


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	38.87	3.61	42.48	-31.52	74.00	150	360	Peak
2	7206.000	34.04	11.68	45.72	-28.28	74.00	150	360	Peak
3	* 9608.000	31.83	15.69	47.52	-26.48	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Right ear	Test Voltage	By Notebook PC



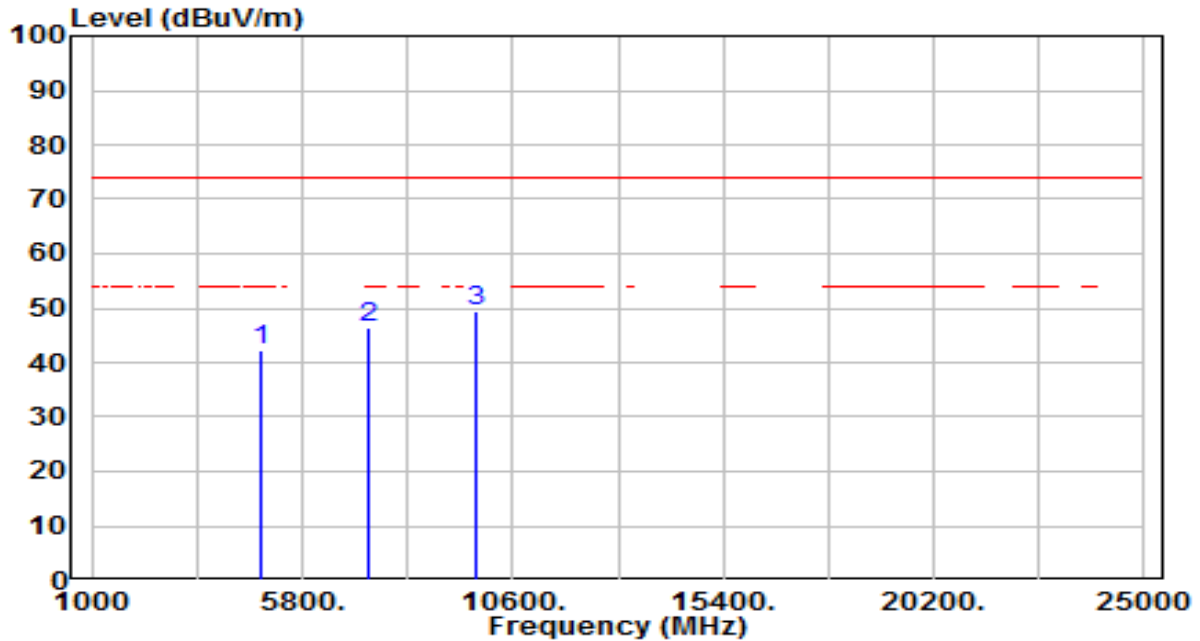
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4804.000	41.33	3.61	44.94	-29.06	74.00	150	360	Peak
2	* 7206.000	36.60	11.68	48.28	-25.72	74.00	150	360	Peak
3	9608.000	32.01	15.69	47.70	-26.30	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 39_Right ear	Test Voltage	By Notebook PC

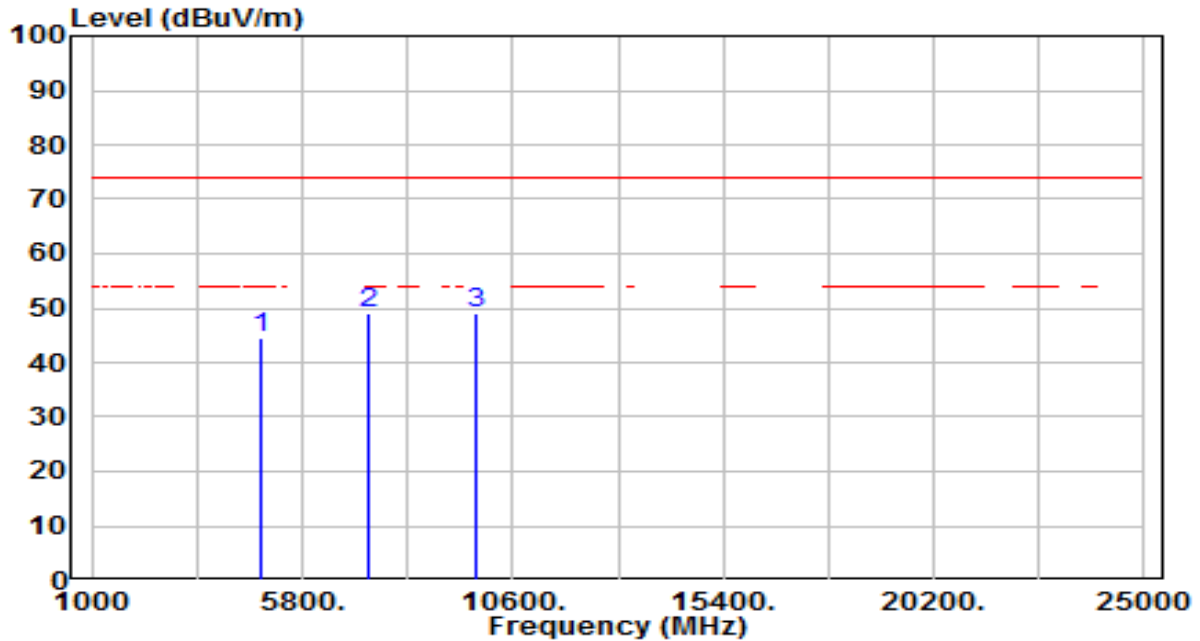


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	38.36	3.75	42.11	-31.89	74.00	150	360	Peak
2	7323.000	34.29	12.16	46.46	-27.54	74.00	150	360	Peak
3	* 9764.000	33.28	15.98	49.27	-24.73	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 39_Right ear	Test Voltage	By Notebook PC

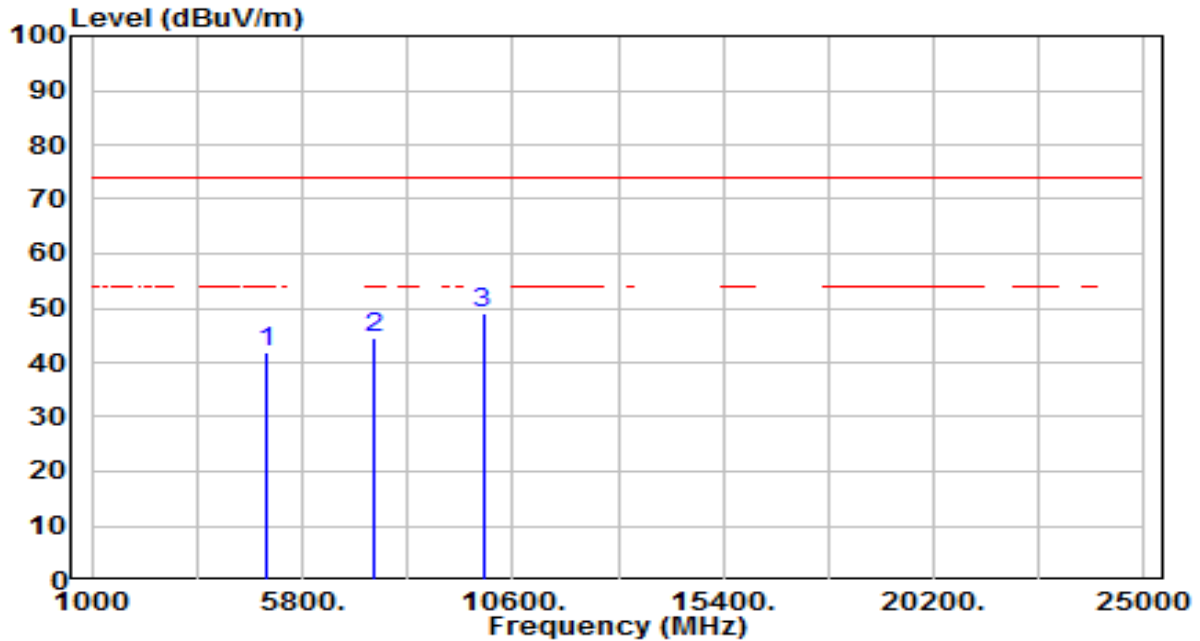


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4882.000	40.77	3.75	44.52	-29.48	74.00	150	360	Peak
2	7323.000	36.71	12.16	48.88	-25.12	74.00	150	360	Peak
3	* 9764.000	33.02	15.98	49.00	-25.00	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Right ear	Test Voltage	By Notebook PC

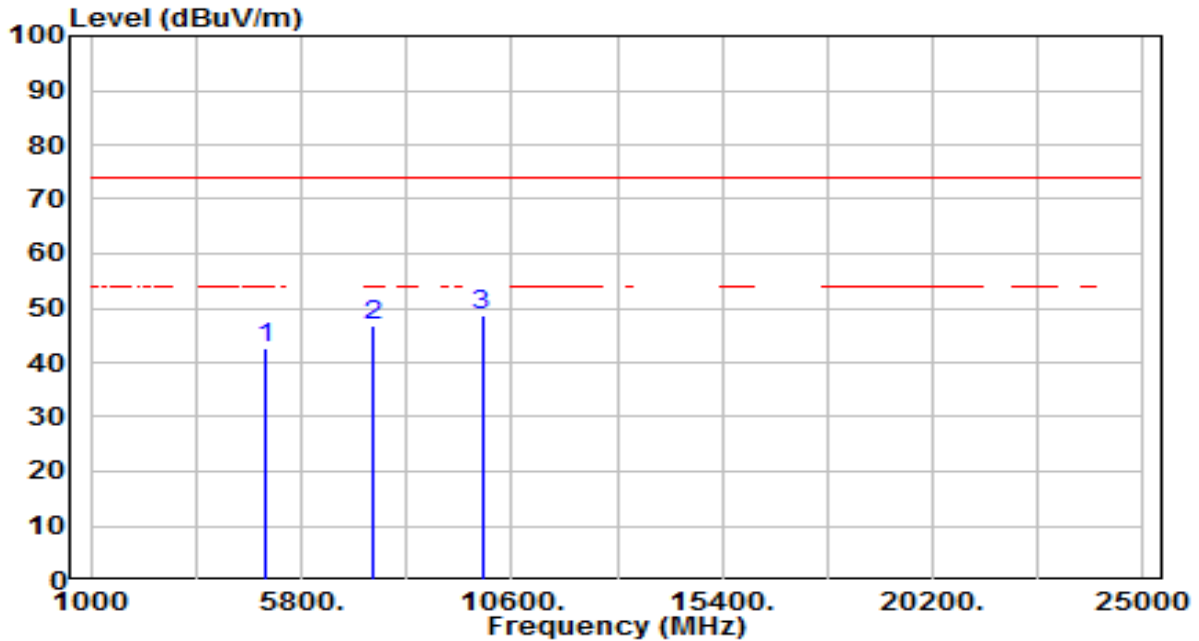


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	38.02	3.90	41.92	-32.08	74.00	150	360	Peak
2	7440.000	31.98	12.65	44.62	-29.38	74.00	150	360	Peak
3	* 9920.000	32.78	16.27	49.05	-24.95	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-19
Factor	BBHA 9120D & BBHA 9170	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Right ear	Test Voltage	By Notebook PC



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	4960.000	38.85	3.90	42.75	-31.25	74.00	150	360	Peak
2	7440.000	33.98	12.65	46.63	-27.37	74.00	150	360	Peak
3	* 9920.000	32.32	16.27	48.59	-25.41	74.00	150	360	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.9. Radiated Restricted Band Edge 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 [V/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 C63.10-2013 - Section 11.12.1

### 7.9.3. Test Setting

#### Peak Field Strength Measurements

8. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
9. RBW = as specified in Table 1
10. VBW = 3 \* RBW
11. Detector = peak
12. Sweep time = auto couple
13. Trace mode = max hold
14. Trace was allowed to stabilize

**Table 1 - RBW as a function of frequency**

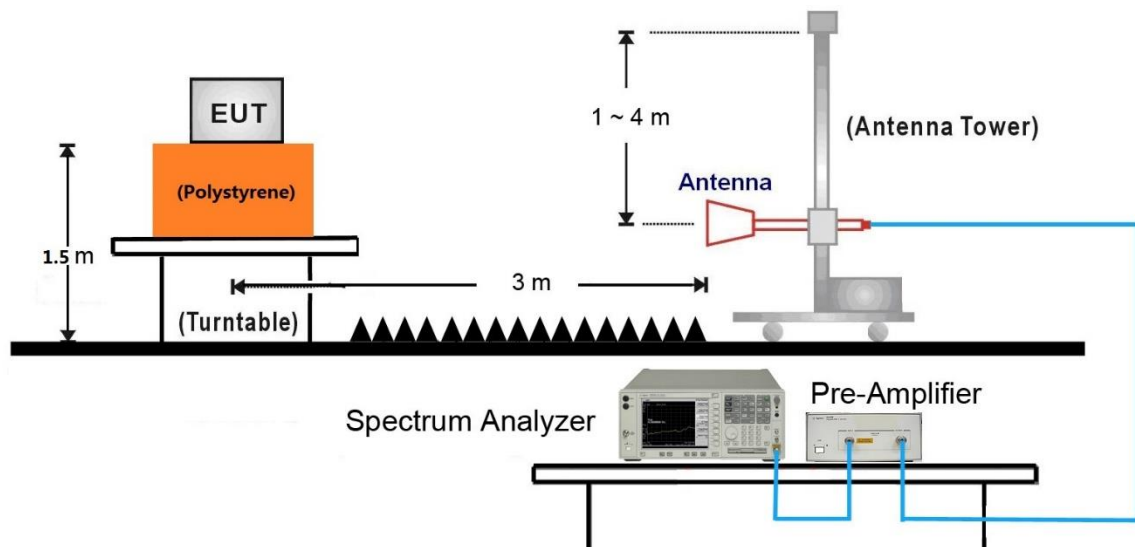
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

**Average Field Strength Measurements**

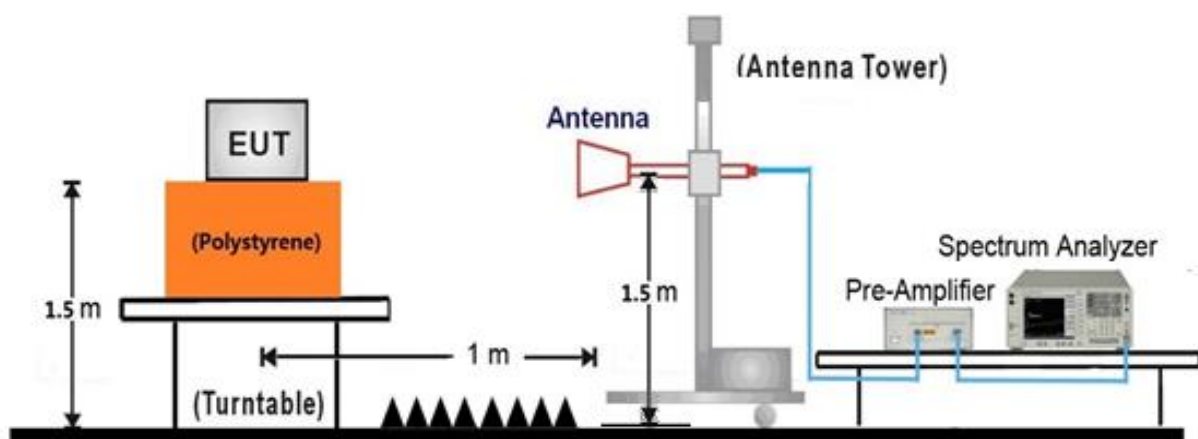
9. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
10. RBW = 1MHz
11. VBW  $\geq 1/T$
12. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or 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
13. Detector = Peak
14. Sweep time = auto
15. Trace mode = max hold
16. Allow max hold to run for at least 50 times (1/duty cycle) traces

### 7.9.4. Test Setup

#### 1GHz ~ 18GHz Test Setup:

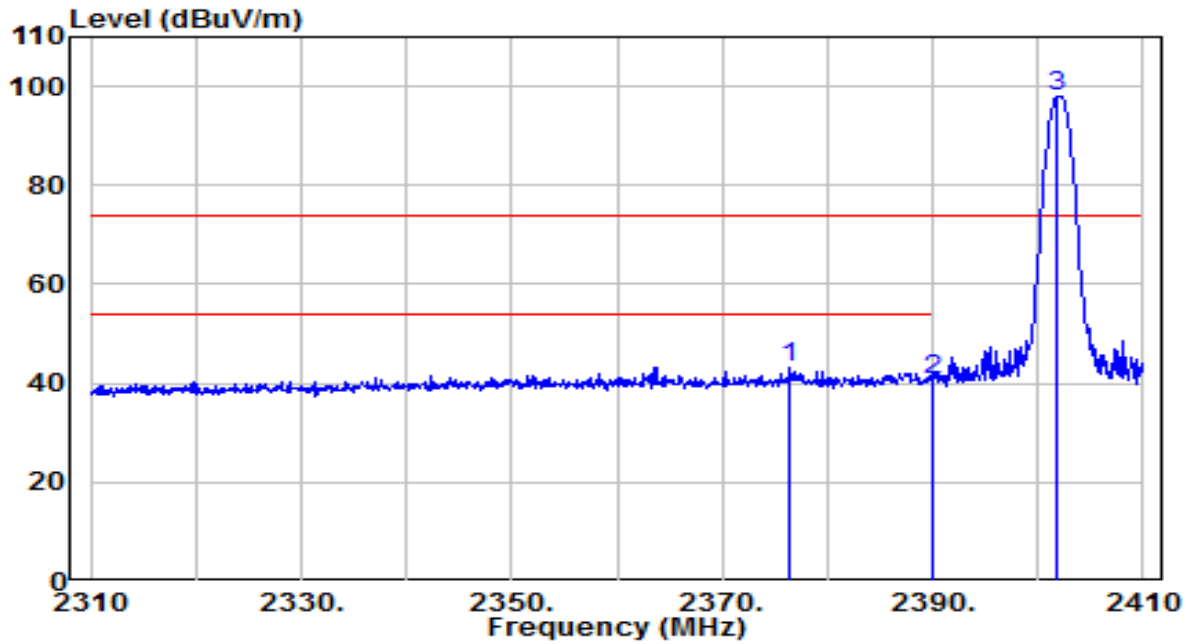


#### 18GHz ~40GHz Test Setup:



### 7.9.5. Test Result

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Left ear	Test Voltage	By Notebook PC



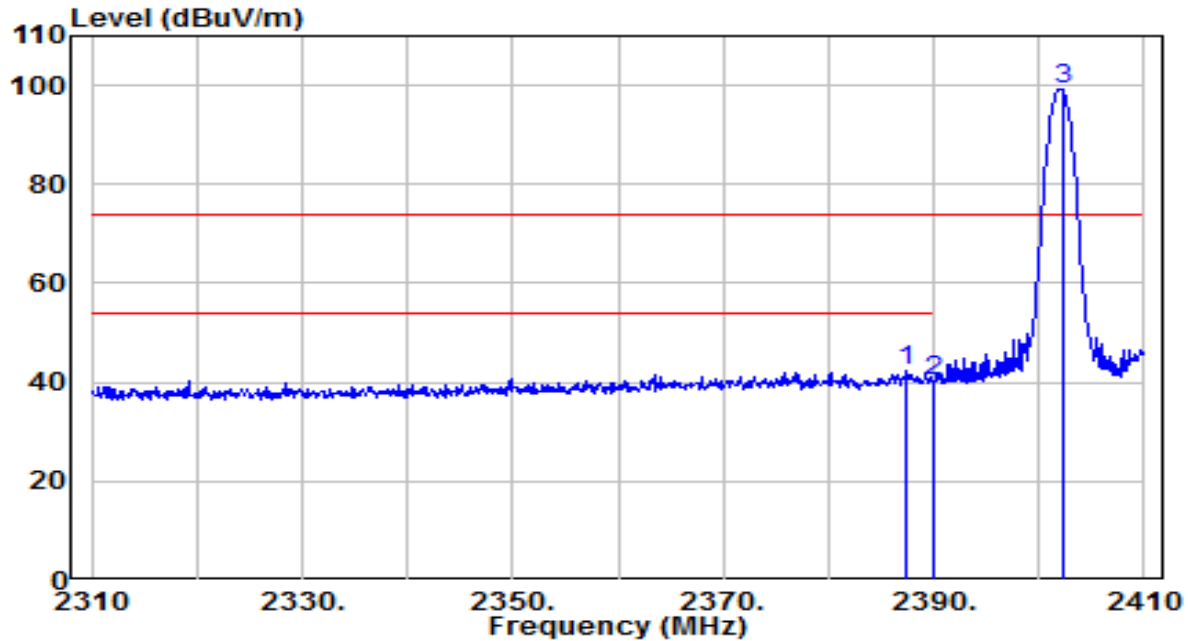
No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2376.400	45.22	-2.08	43.14	-30.86	74.00	135	40	Peak
2	2390.000	42.58	-2.04	40.54	-33.46	74.00	135	40	Peak
3	2401.800	100.09	-2.00	98.09	N/A	N/A	135	40	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Left ear	Test Voltage	By Notebook PC

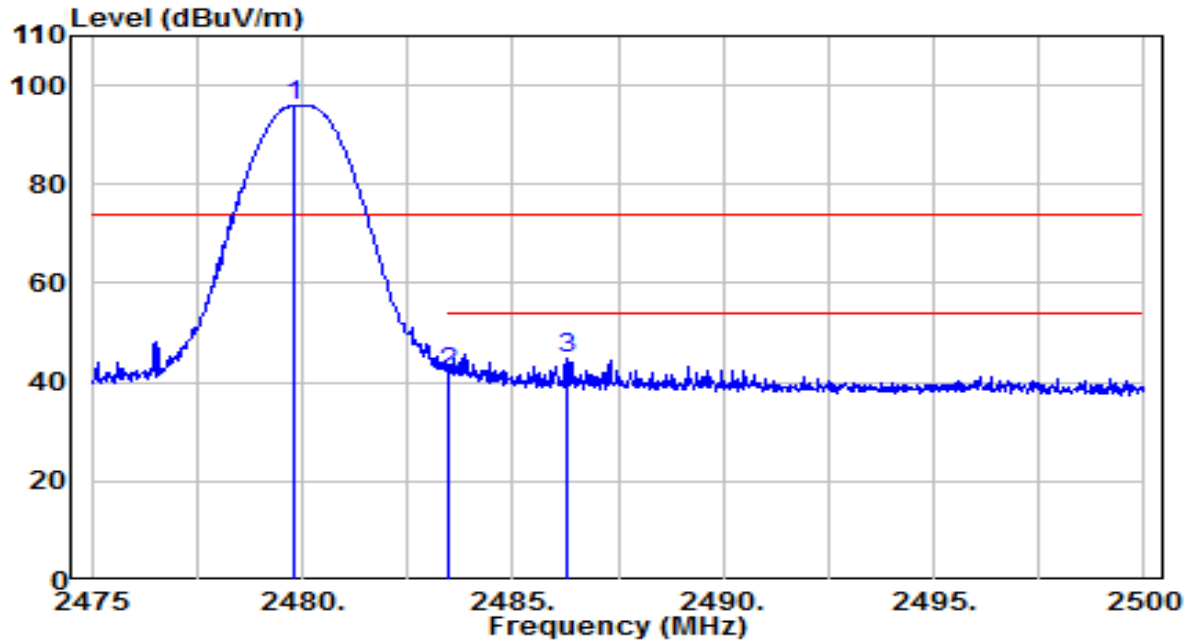


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2387.500	44.23	-2.05	42.19	-31.81	74.00	150	165	Peak
2	2390.000	42.12	-2.04	40.08	-33.92	74.00	150	165	Peak
3	2402.200	101.04	-2.00	99.04	N/A	N/A	150	165	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Left ear	Test Voltage	By Notebook PC

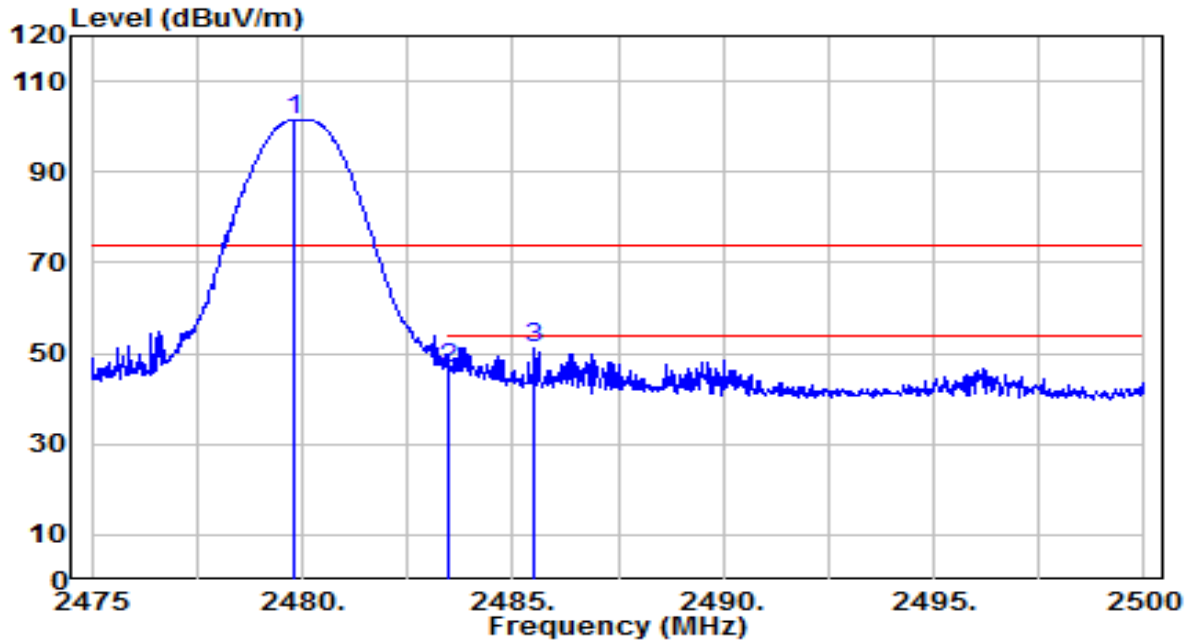


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.800	97.62	-1.75	95.87	N/A	N/A	115	235	Peak
2	2483.500	43.86	-1.74	42.12	-31.88	74.00	115	235	Peak
3	* 2486.300	46.70	-1.73	44.97	-29.03	74.00	115	235	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Left ear	Test Voltage	By Notebook PC

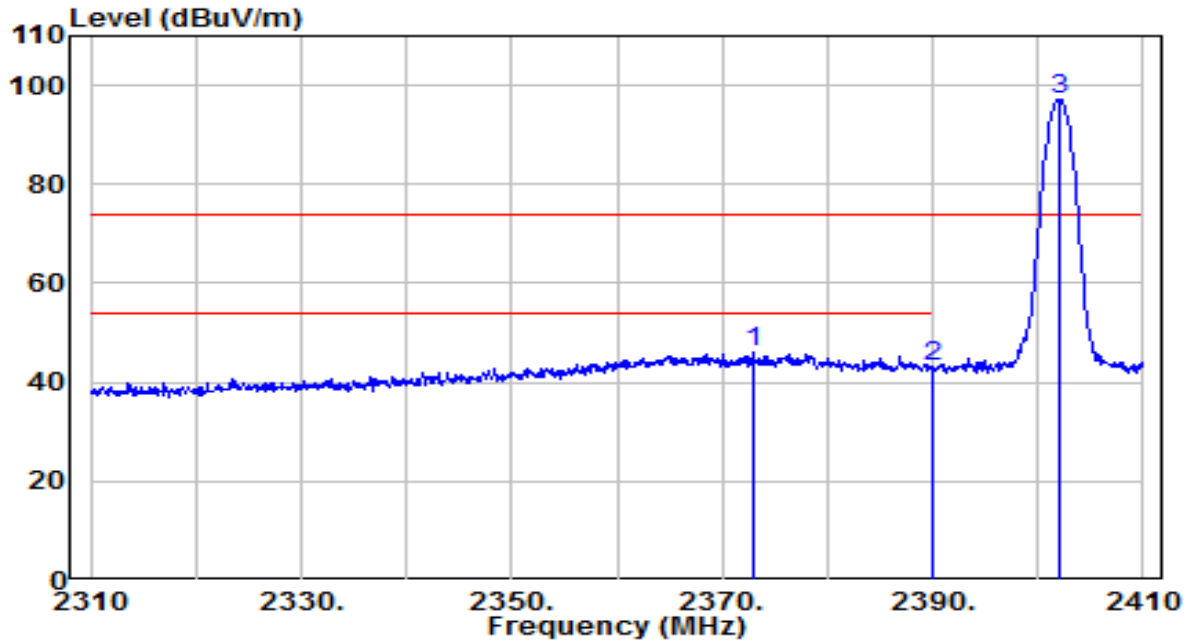


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.800	103.25	-1.75	101.50	N/A	N/A	150	275	Peak
2	2483.500	48.61	-1.74	46.87	-27.13	74.00	150	275	Peak
3	* 2485.525	53.05	-1.74	51.32	-22.68	74.00	150	275	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Left ear	Test Voltage	By Notebook PC

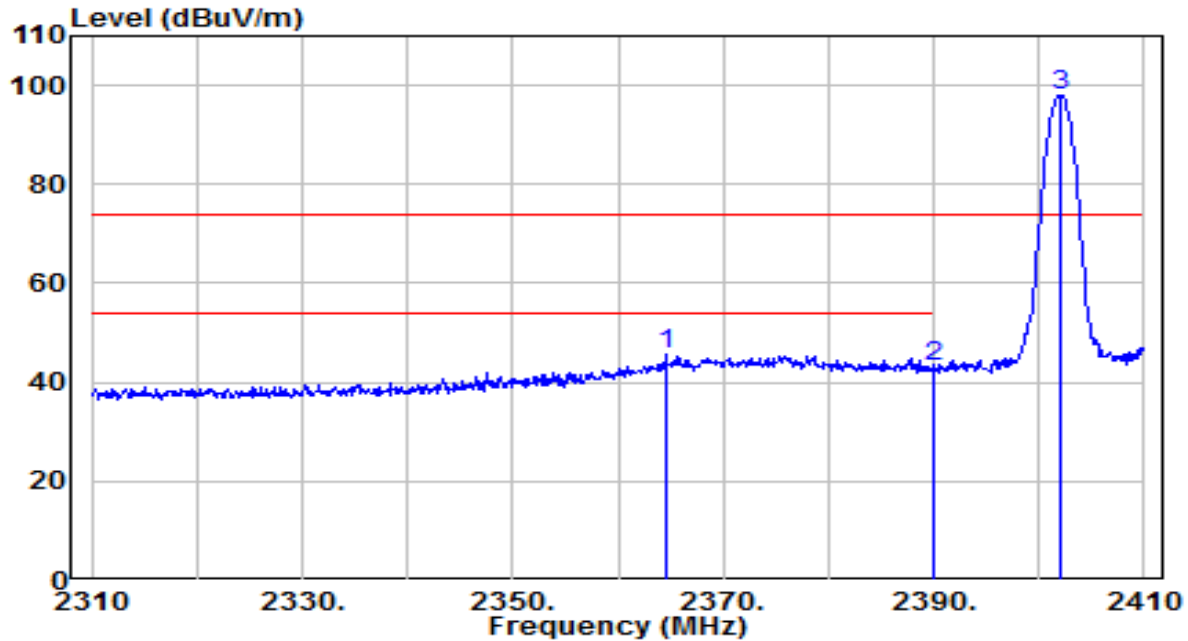


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2372.900	48.25	-2.09	46.16	-27.84	74.00	135	40	Peak
2	2390.000	45.37	-2.04	43.33	-30.67	74.00	135	40	Peak
3	2402.000	99.24	-2.00	97.24	N/A	N/A	135	40	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Left ear	Test Voltage	By Notebook PC

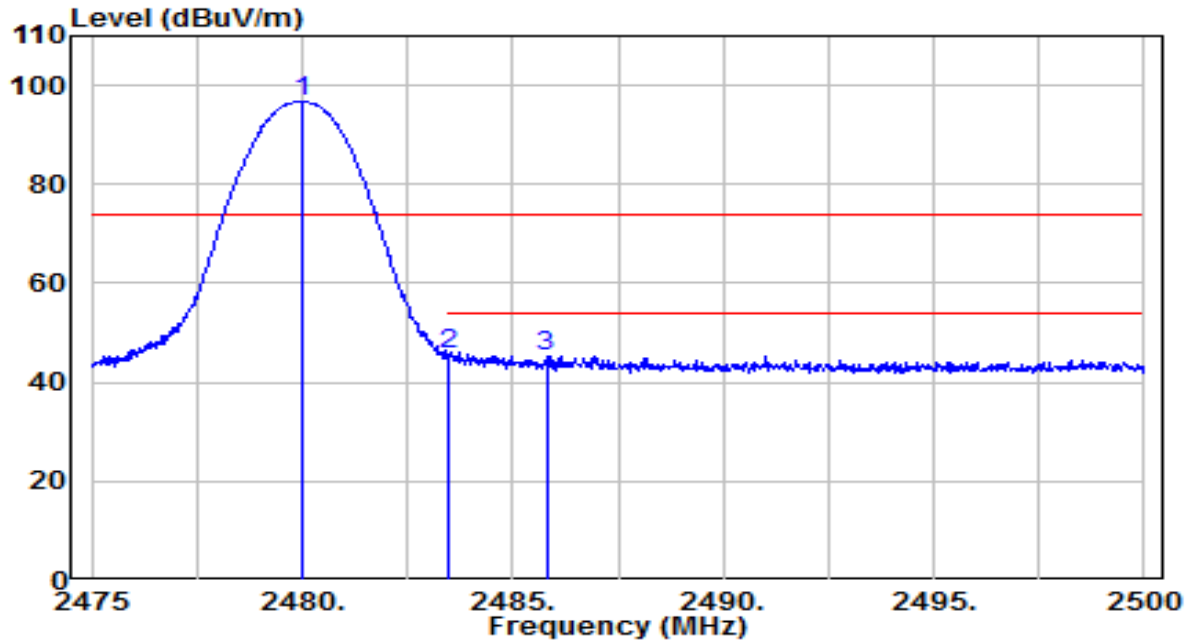


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2364.600	47.62	-2.12	45.50	-28.50	74.00	150	165	Peak
2	2390.000	45.02	-2.04	42.98	-31.02	74.00	150	165	Peak
3	2402.000	100.17	-2.00	98.17	N/A	N/A	150	165	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Left ear	Test Voltage	By Notebook PC

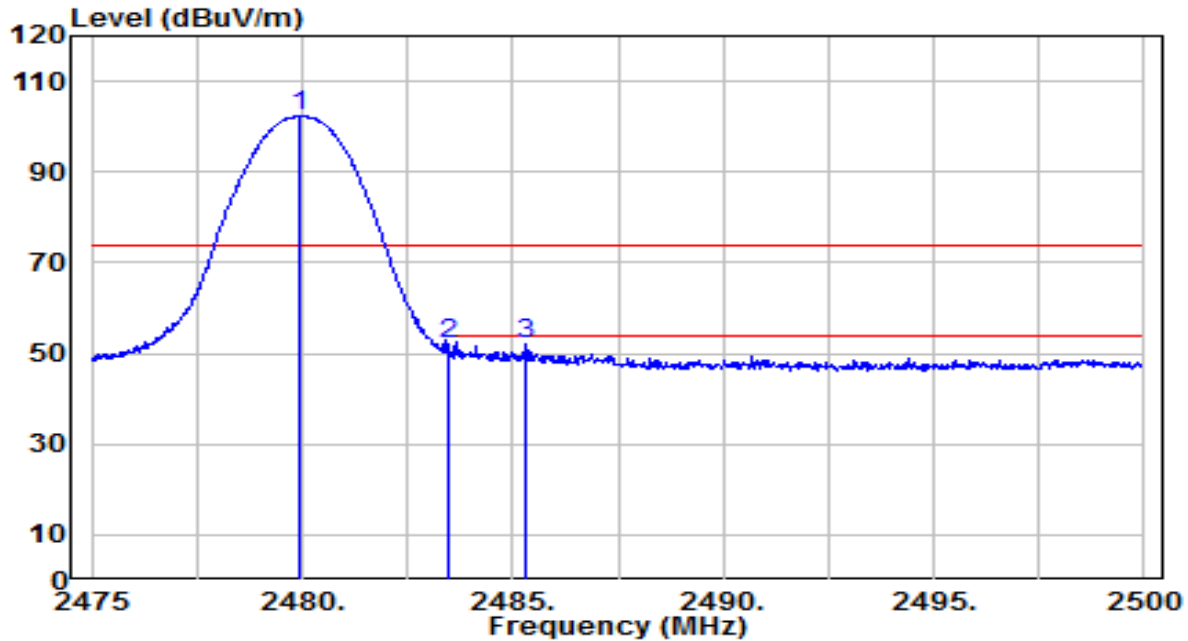


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	98.65	-1.75	96.90	N/A	N/A	115	235	Peak
2	* 2483.500	47.31	-1.74	45.57	-28.43	74.00	115	235	Peak
3	2485.800	47.14	-1.73	45.40	-28.60	74.00	115	235	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Left ear	Test Voltage	By Notebook PC

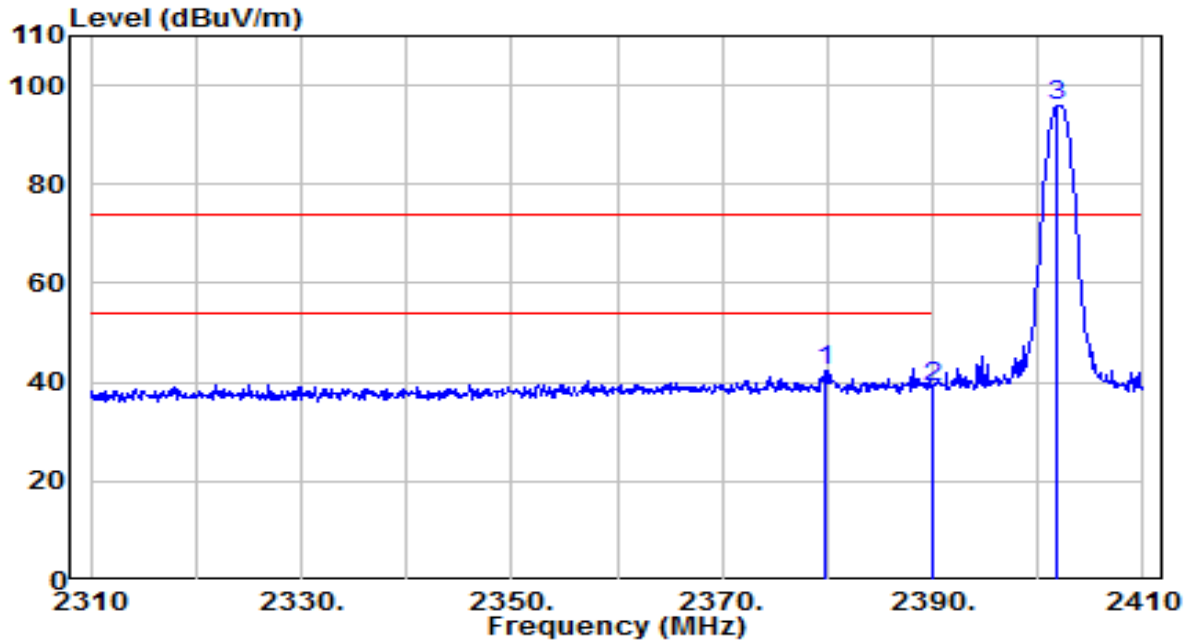


No	Frequency (MHz)	Reading (dBUV)	C.F (dB/m)	Measurement (dBUV/m)	Margin (dB)	Limit (dBUV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.950	104.16	-1.75	102.41	N/A	N/A	150	275	Peak
2	2483.500	53.69	-1.74	51.95	-22.05	74.00	150	275	Peak
3	* 2485.325	53.70	-1.74	51.97	-22.03	74.00	150	275	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBUV/m) = Reading(dBUV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Right ear	Test Voltage	By Notebook PC



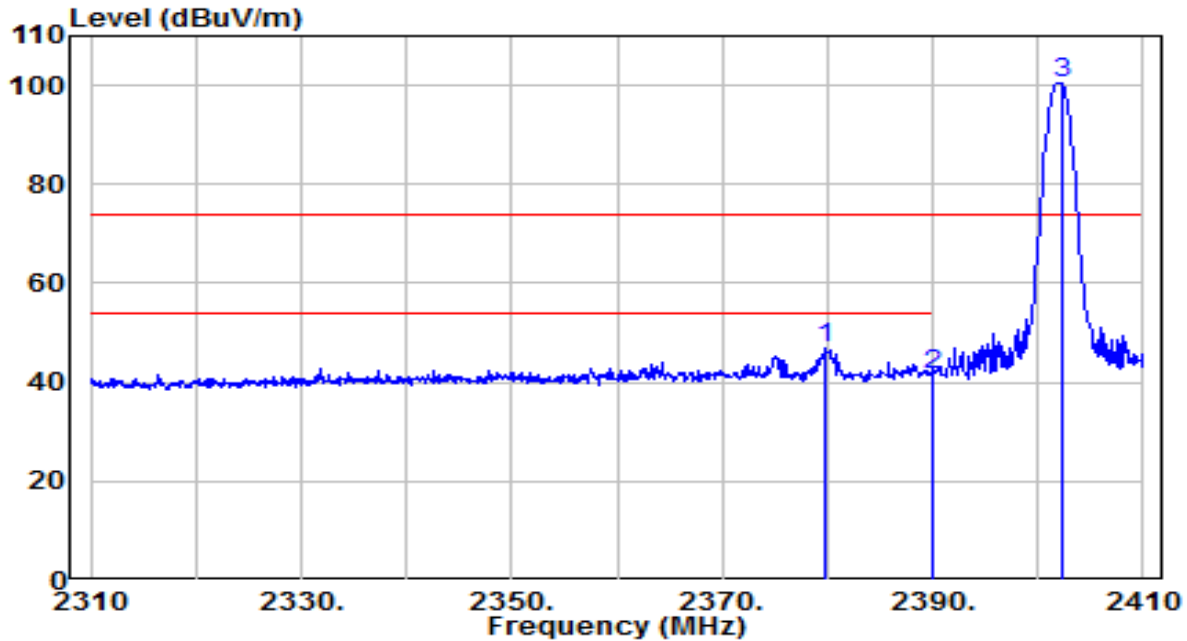
No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2379.800	44.44	-2.07	42.37	-31.63	74.00	145	145	Peak
2	2390.000	41.13	-2.04	39.09	-34.91	74.00	145	145	Peak
3	2401.800	97.99	-2.00	95.99	N/A	N/A	145	145	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.



EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 0_Right ear	Test Voltage	By Notebook PC

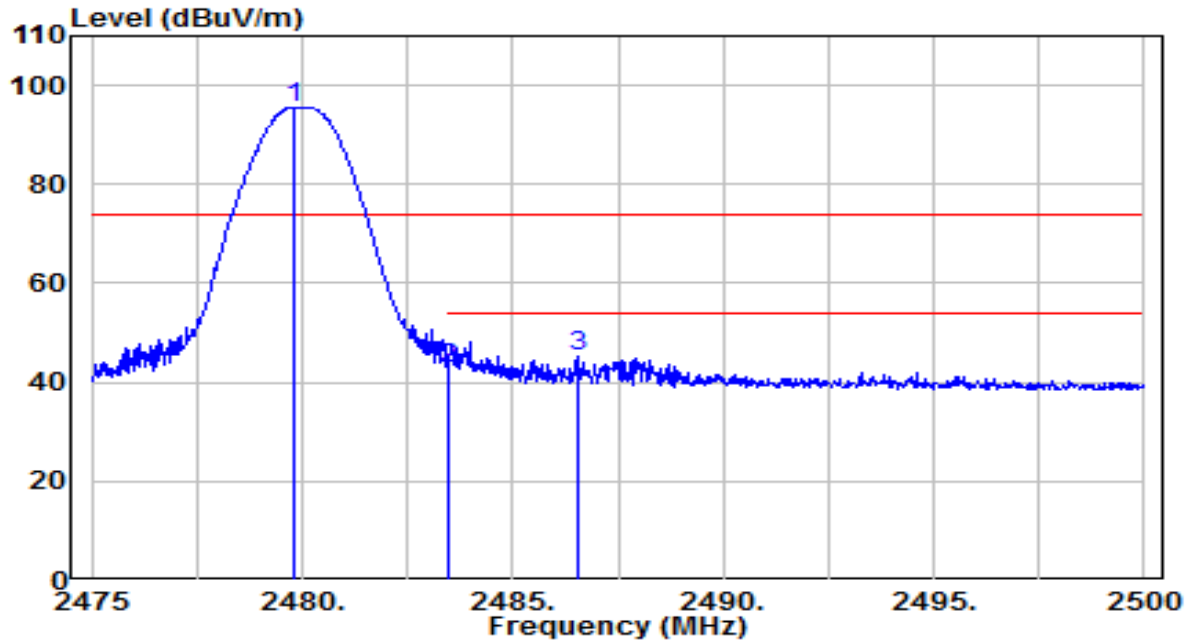


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2379.800	49.01	-2.07	46.94	-27.06	74.00	100	270	Peak
2	2390.000	43.55	-2.04	41.51	-32.49	74.00	100	270	Peak
3	2402.200	102.64	-2.00	100.64	N/A	N/A	100	270	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Right ear	Test Voltage	By Notebook PC

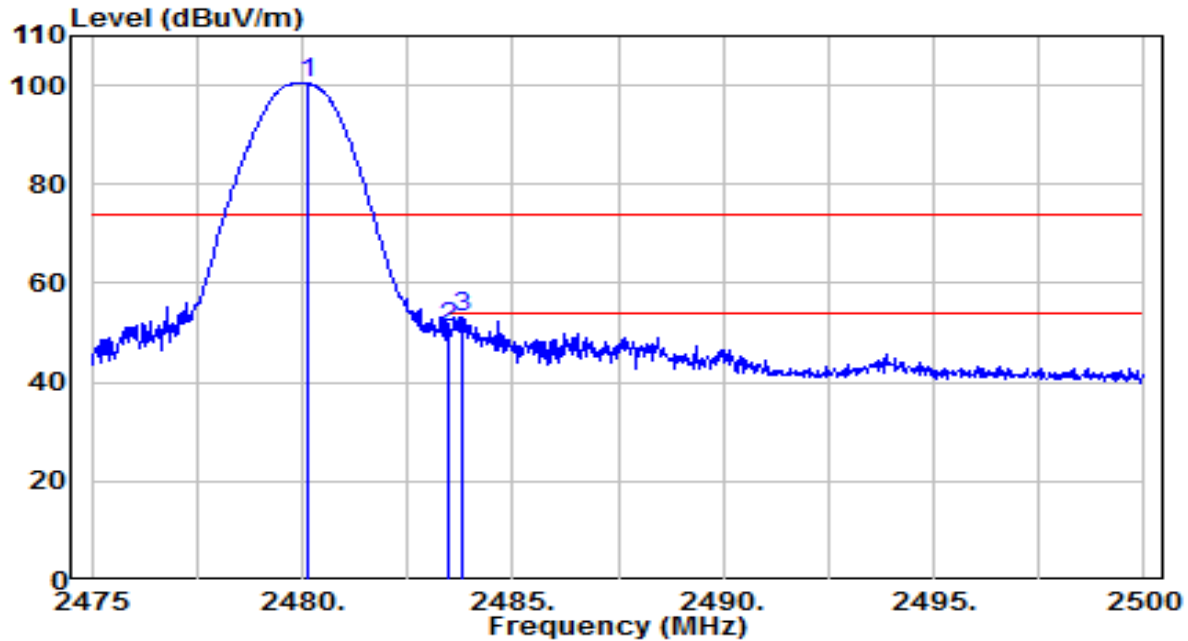


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.800	97.34	-1.75	95.58	N/A	N/A	155	150	Peak
2	2483.500	44.36	-1.74	42.62	-31.38	74.00	155	150	Peak
3	* 2486.525	47.12	-1.73	45.39	-28.61	74.00	155	150	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_DH5_CH 78_Right ear	Test Voltage	By Notebook PC

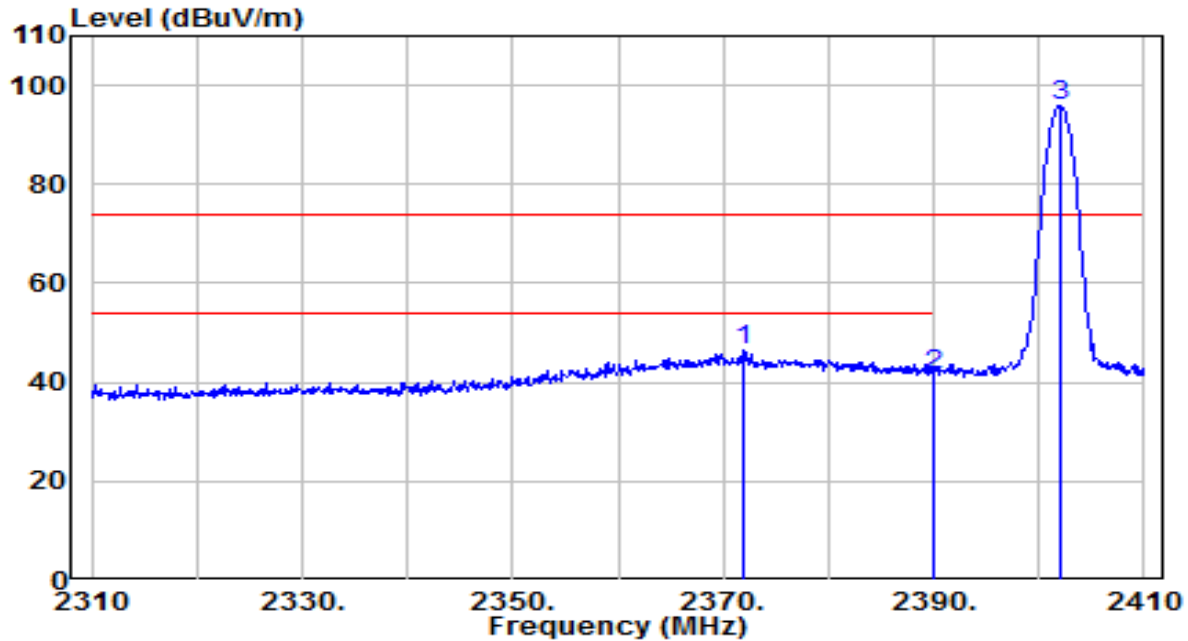


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2480.125	102.04	-1.75	100.29	N/A	N/A	115	225	Peak
2	2483.500	52.80	-1.74	51.06	-22.94	74.00	115	225	Peak
3	* 2483.825	54.79	-1.74	53.05	-20.95	74.00	115	225	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Right ear	Test Voltage	By Notebook PC

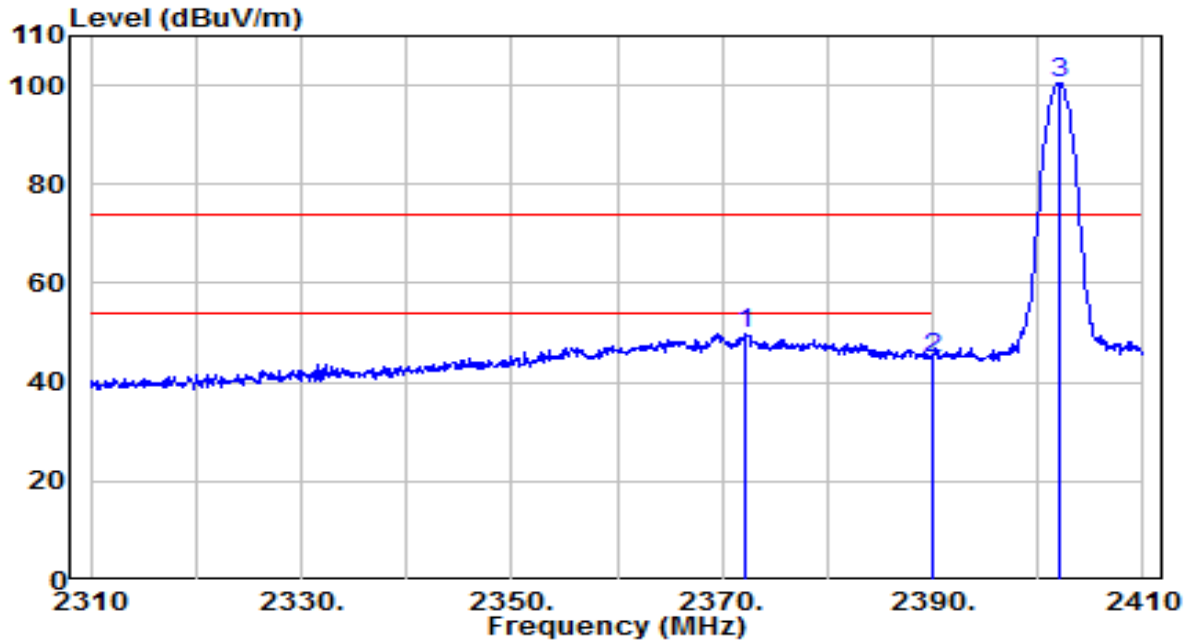


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2372.000	48.73	-2.09	46.64	-27.36	74.00	145	145	Peak
2	2390.000	43.60	-2.04	41.56	-32.44	74.00	145	145	Peak
3	2402.000	97.86	-2.00	95.86	N/A	N/A	145	145	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 0_Right ear	Test Voltage	By Notebook PC

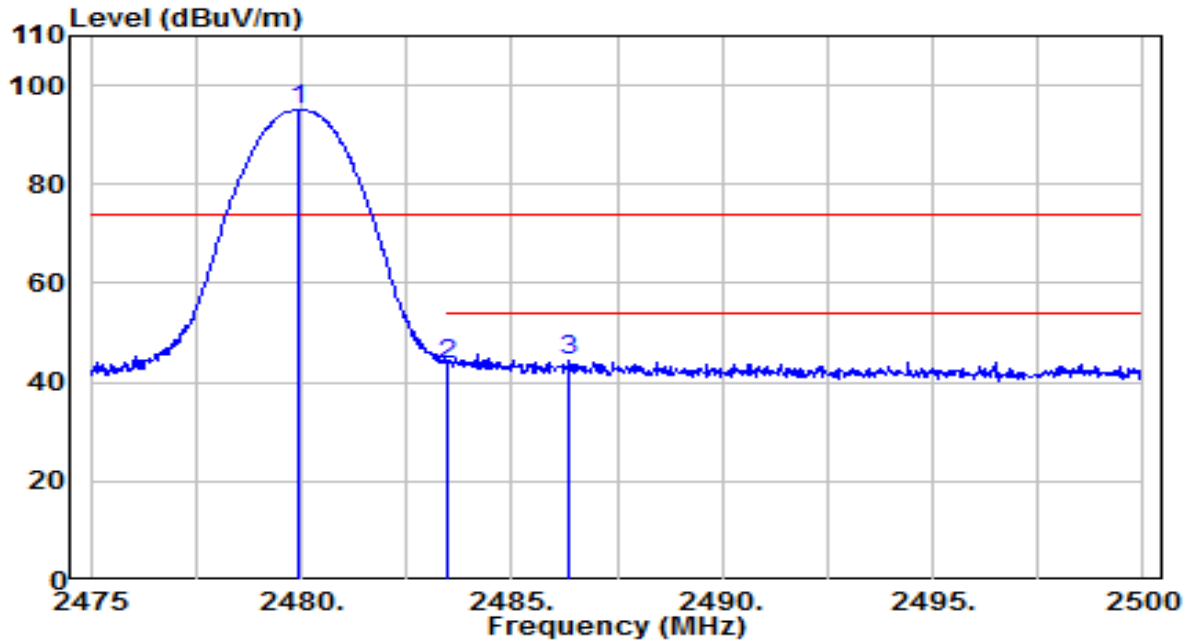


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	* 2372.300	52.09	-2.09	49.99	-24.01	74.00	100	270	Peak
2	2390.000	46.99	-2.04	44.95	-29.05	74.00	100	270	Peak
3	2402.000	102.46	-2.00	100.46	N/A	N/A	100	270	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Horizontal	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Right ear	Test Voltage	By Notebook PC

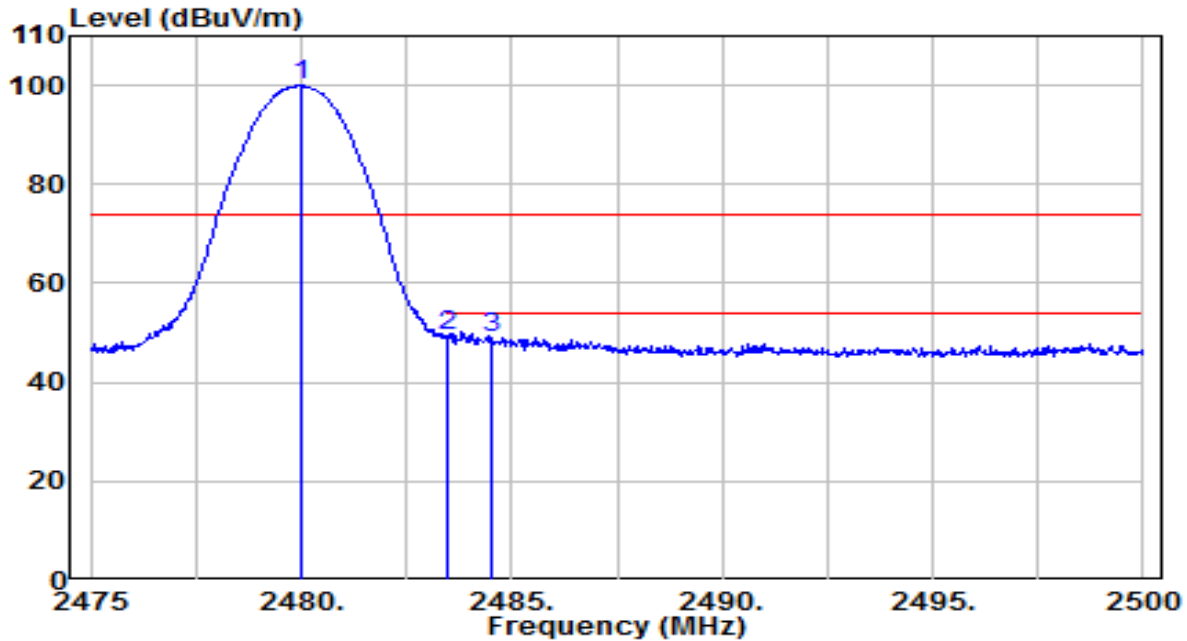


No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.950	96.98	-1.75	95.23	N/A	N/A	155	150	Peak
2	2483.500	45.46	-1.74	43.72	-30.28	74.00	155	150	Peak
3	* 2486.375	46.04	-1.73	44.31	-29.69	74.00	155	150	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Pre-amplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	Wireless Earphone	Date of Test	2022-08-18
Factor	BBHA 9120D	Temp. / Humidity	25°C /61%
Polarity	Vertical	Site / Test Engineer	AC1 / Kaunaz
Test Mode	BT_TX_3DH5_CH 78_Right ear	Test Voltage	By Notebook PC



No	Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	2479.975	101.68	-1.75	99.92	N/A	N/A	115	225	Peak
2	* 2483.500	50.99	-1.74	49.25	-24.75	74.00	115	225	Peak
3	2484.500	50.75	-1.74	49.01	-24.99	74.00	115	225	Peak

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB)+ Cable Loss (dB) – Preamplifier(dB).
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

## 7.10. AC Conducted Emissions Measurement

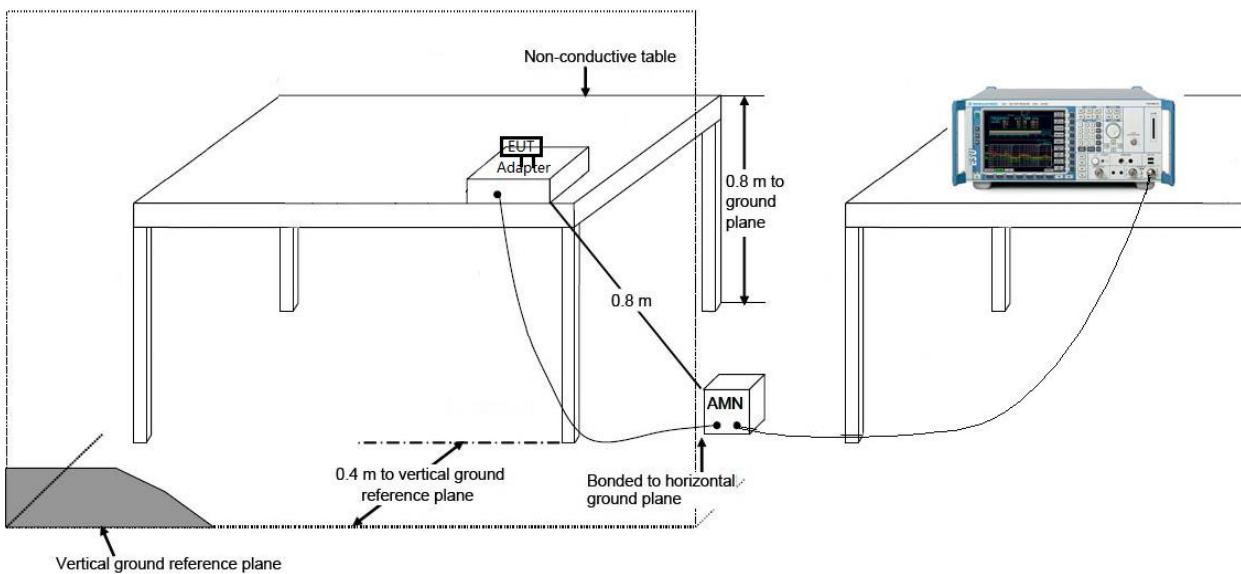
### 7.10.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 / RSS-Gen 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.

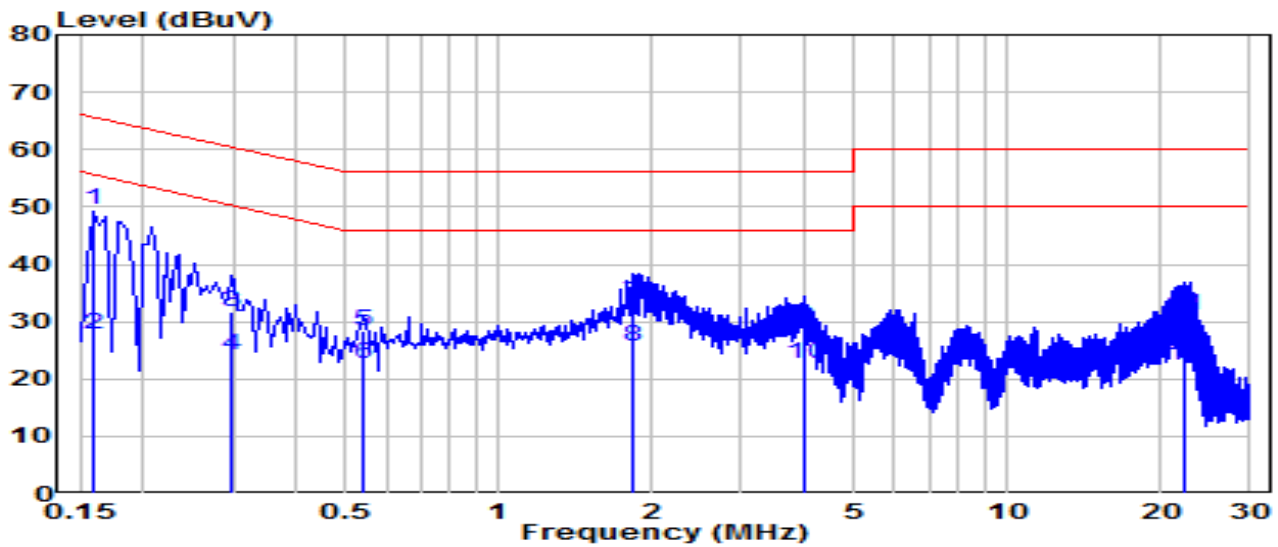
### 7.10.2. Test Setup





### 7.10.3. Test Result

EUT	Wireless Earphones	Date of Test	2022-08-12
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	26.1°C /51%
Polarity	Line1	Site / Test Engineer	SR2 / Amber
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC

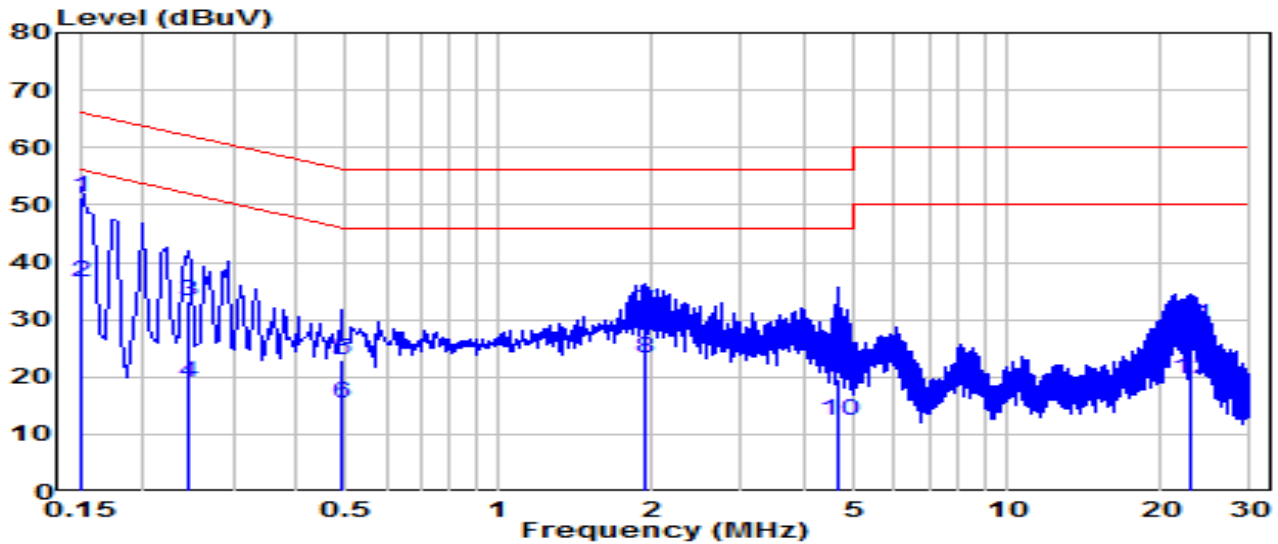


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)	
1	*	0.159	39.75	9.62	49.37	-16.15	65.52	QP
2	*	0.159	18.05	9.62	27.68	-27.84	55.52	Average
3		0.298	22.13	9.63	31.76	-28.52	60.28	QP
4		0.298	14.66	9.63	24.29	-26.00	50.28	Average
5		0.541	18.83	9.64	28.47	-27.53	56.00	QP
6		0.541	12.91	9.64	22.55	-23.45	46.00	Average
7		1.828	23.60	9.69	33.29	-22.71	56.00	QP
8		1.828	16.07	9.69	25.75	-20.25	46.00	Average
9		4.006	19.29	9.73	29.02	-26.98	56.00	QP
10		4.006	12.99	9.73	22.72	-23.28	46.00	Average
11		22.175	21.18	9.92	31.10	-28.90	60.00	QP
12		22.175	12.34	9.92	22.26	-27.74	50.00	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	Wireless Earphones	Date of Test	2022-08-12
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	26.1°C / 51%
Polarity	Neutral	Site / Test Engineer	SR2 / Amber
Test Mode	BT_TX_DH5_CH 39_Left ear	Test Voltage	By Notebook PC

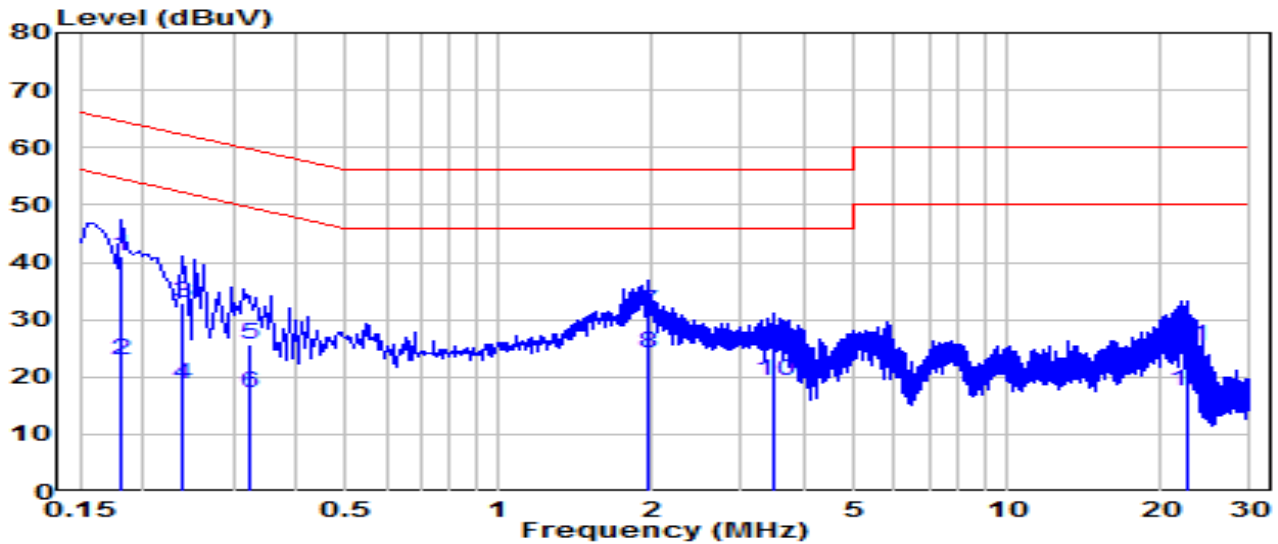


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.150	9.62	51.22	-14.78	66.00	QP
2	*	0.150	9.62	36.64	-19.36	56.00	Average
3		0.244	9.63	33.25	-28.70	61.94	QP
4		0.244	9.63	18.97	-32.97	51.94	Average
5		0.487	9.64	22.88	-33.33	56.21	QP
6		0.487	9.64	15.53	-30.68	46.21	Average
7		1.950	9.69	31.47	-24.53	56.00	QP
8		1.950	9.69	23.16	-22.84	46.00	Average
9		4.650	9.74	19.53	-36.47	56.00	QP
10		4.650	9.74	12.29	-33.71	46.00	Average
11		23.089	10.01	29.04	-30.96	60.00	QP
12		23.089	10.01	19.72	-30.28	50.00	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	Wireless Earphones	Date of Test	2022-08-12
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	26.1°C / 51%
Polarity	Line1	Site / Test Engineer	SR2 / Amber
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC

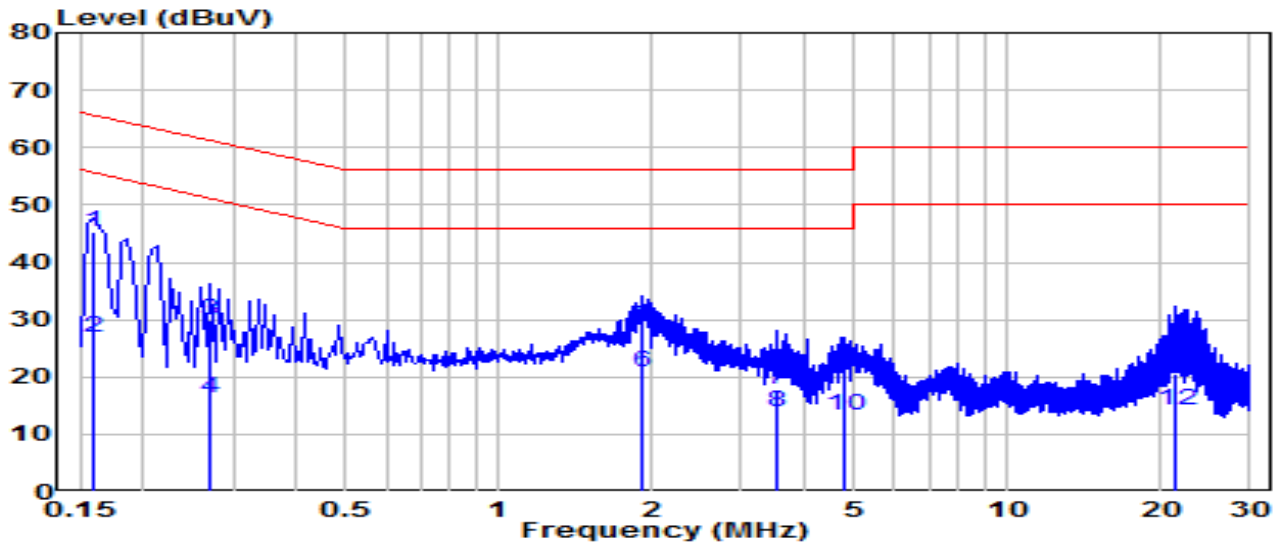


No	Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	0.181	31.42	9.62	41.04	-23.38	64.42	QP
2	0.181	13.40	9.62	23.02	-31.39	54.42	Average
3	0.240	23.41	9.63	33.04	-29.06	62.10	QP
4	0.240	9.07	9.63	18.70	-33.40	52.10	Average
5	0.325	15.97	9.63	25.60	-33.96	59.57	QP
6	0.325	7.54	9.63	17.17	-32.40	49.57	Average
7	*	1.963	9.69	31.32	-24.68	56.00	QP
8	*	1.963	9.69	24.00	-22.00	46.00	Average
9	3.480	15.72	9.72	25.44	-30.56	56.00	QP
10	3.480	9.57	9.72	19.29	-26.71	46.00	Average
11	22.738	15.38	9.92	25.30	-34.70	60.00	QP
12	22.738	7.67	9.92	17.59	-32.41	50.00	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	Wireless Earphones	Date of Test	2022-08-12
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	26.1°C / 51%
Polarity	Neutral	Site / Test Engineer	SR2 / Amber
Test Mode	BT_TX_DH5_CH 39_Right ear	Test Voltage	By Notebook PC



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1	*	0.159	35.75	9.62	45.37	-20.15	65.52	QP
2	*	0.159	17.39	9.62	27.02	-28.50	55.52	Average
3		0.271	20.12	9.63	29.75	-31.32	61.07	QP
4		0.271	6.63	9.63	16.25	-34.82	51.07	Average
5		1.914	18.92	9.69	28.61	-27.39	56.00	QP
6		1.914	11.22	9.69	20.91	-25.09	46.00	Average
7		3.529	7.99	9.72	17.71	-38.29	56.00	QP
8		3.529	4.30	9.72	14.02	-31.98	46.00	Average
9		4.789	10.92	9.74	20.66	-35.34	56.00	QP
10		4.789	3.44	9.74	13.18	-32.82	46.00	Average
11		21.536	10.58	10.00	20.59	-39.41	60.00	QP
12		21.536	4.17	10.00	14.17	-35.83	50.00	Average

Note:

1. " \*", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

## 8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Wireless Earphones, FCC ID:**

**RWO-459** is in compliance with Part 15C of the FCC Rules.