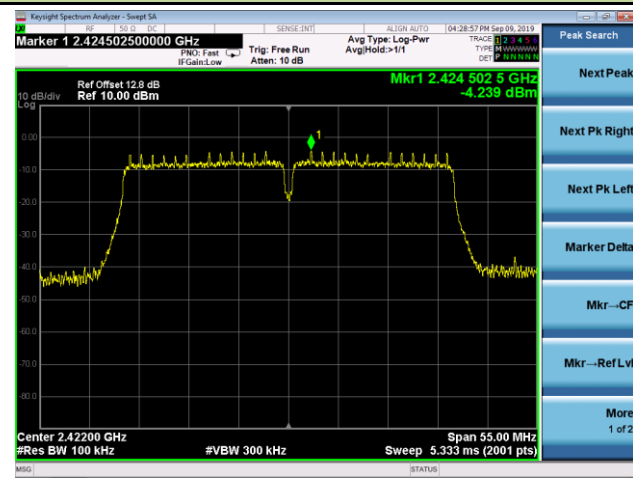


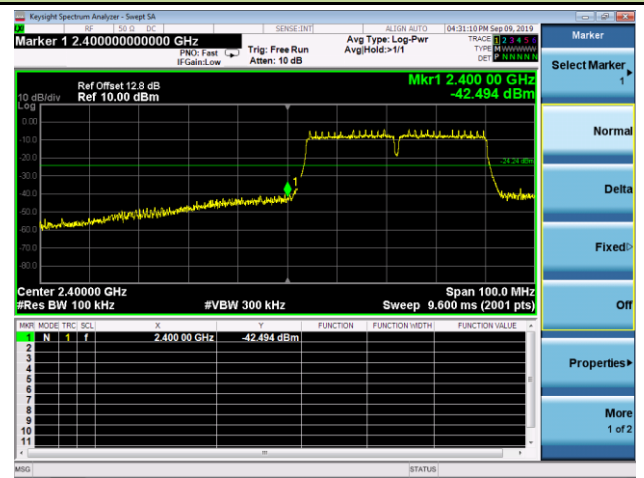
802.11n-HT40 Out-of-Band Emissions

Channel 01 (2422MHz)

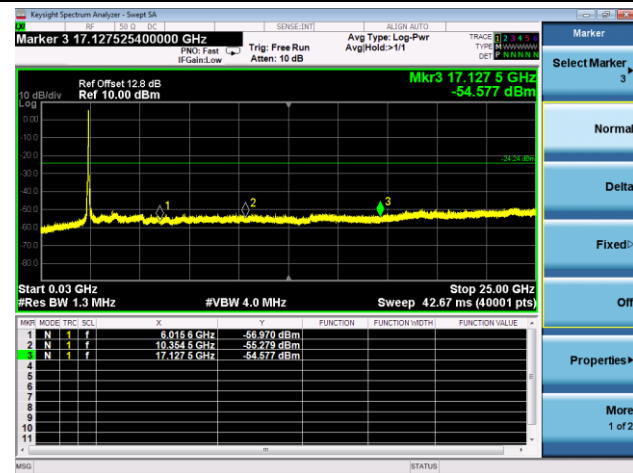
100kHz PSD Reference Level



Low Band Edge

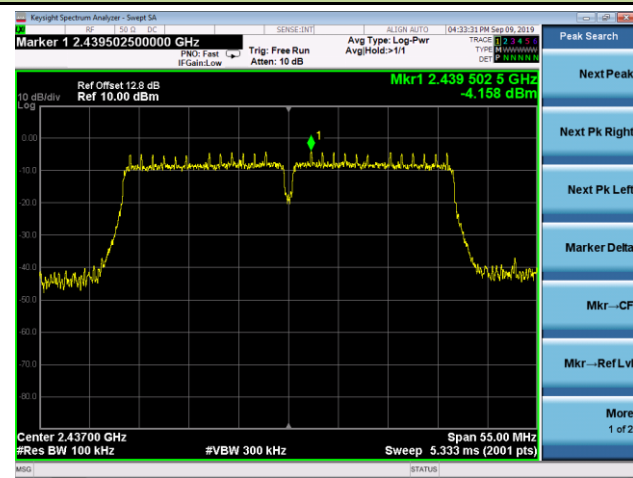


Spurious Emission

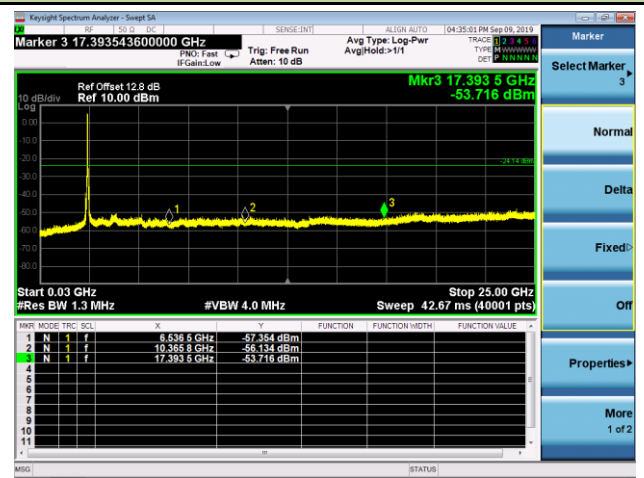


Channel 06 (2437MHz)

100kHz PSD Reference Level



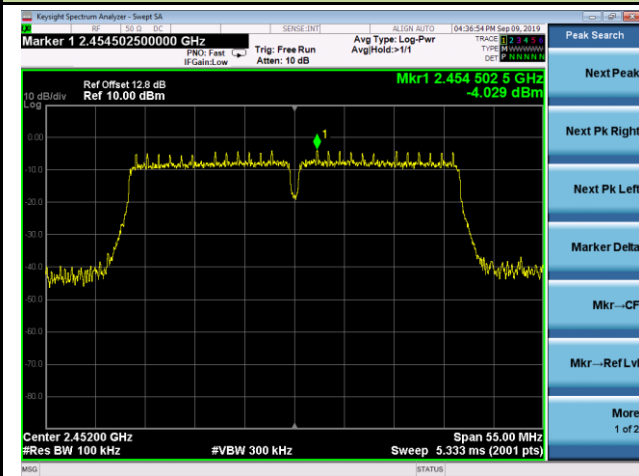
Spurious Emission



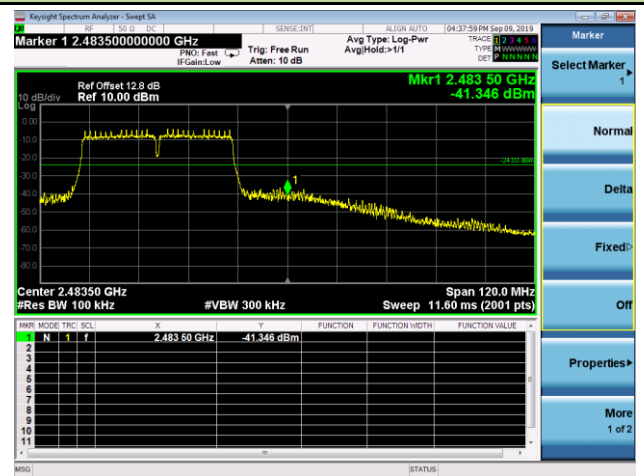
802.11n-HT40 Out-of-Band Emissions

Channel 11 (2452MHz)

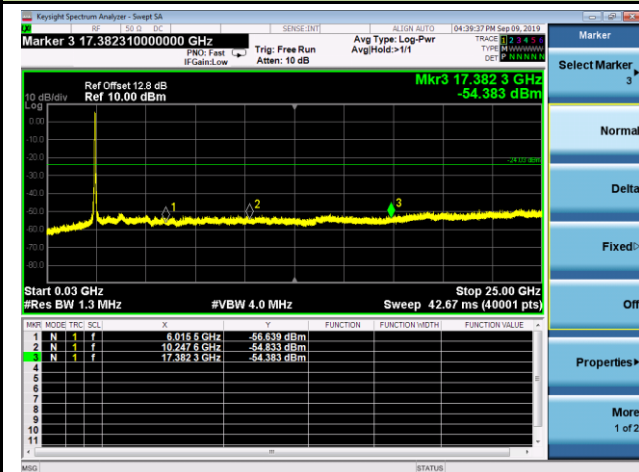
100kHz PSD Reference Level



High Band Edge



Spurious Emission



7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

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

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.6.2. 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)

7.6.3. Test Setting

Table 1 - RBW as a function of frequency

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

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

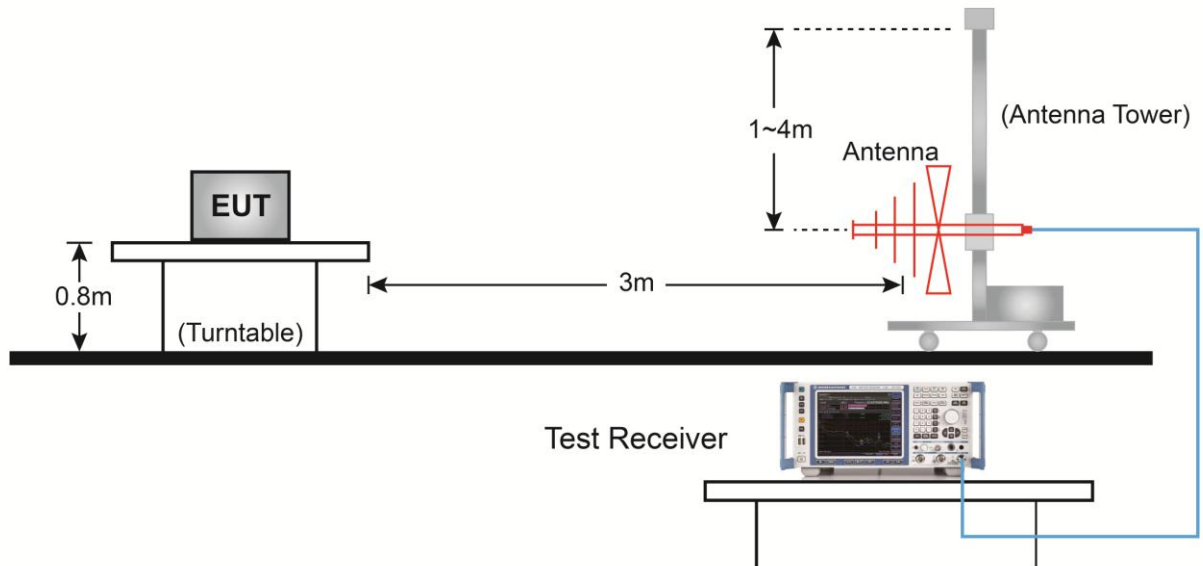
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

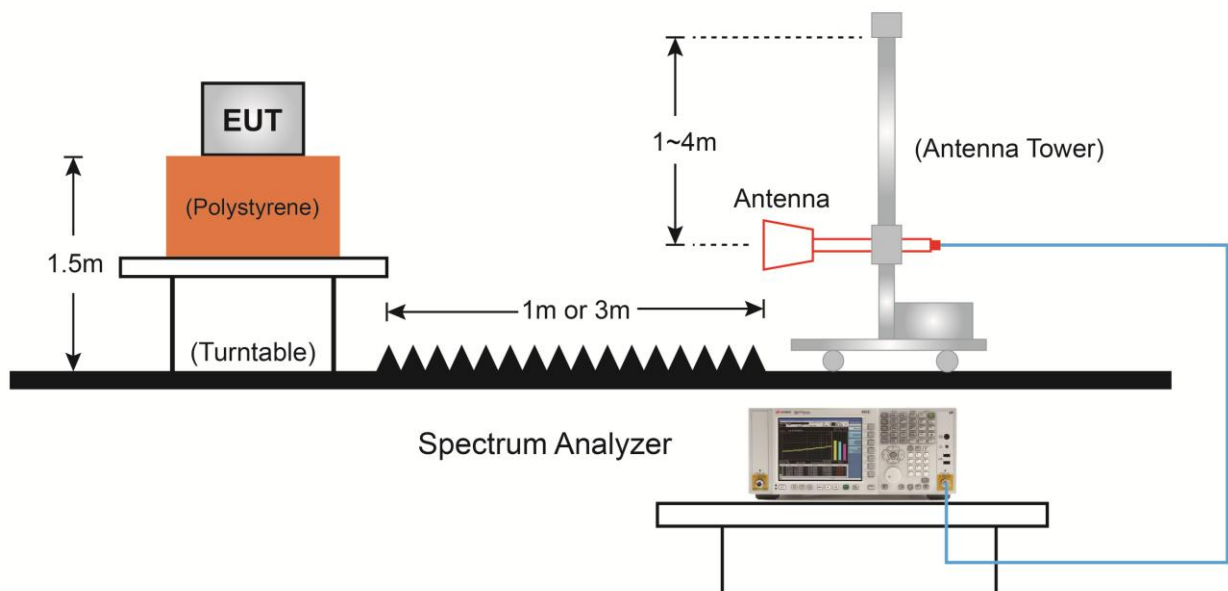
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW; If the EUT is configured to transmit with duty cycle $\geq 98\%$, set VBW = 10 Hz.
If the EUT duty cycle is $< 98\%$, set $VBW \geq 1/T$. T is the minimum transmission duration.
4.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

7.6.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.6.5. Test Result

Product	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	01
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
	7579.0	35.9	11.8	47.7	74.0	-26.3	Peak	Horizontal
	8242.0	36.4	12.3	48.7	74.0	-25.3	Peak	Horizontal
*	9644.5	37.3	15.5	52.8	76.0	-23.2	Peak	Horizontal
*	13087.0	34.1	18.1	52.2	76.0	-23.8	Peak	Horizontal
	7536.5	36.1	11.9	48.0	74.0	-26.0	Peak	Vertical
	8369.5	36.0	12.3	48.3	74.0	-25.7	Peak	Vertical
*	9644.5	37.3	15.5	52.8	76.0	-23.2	Peak	Vertical
*	13078.5	34.5	18.0	52.5	76.0	-23.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.0dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	06
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
	7536.5	36.1	11.9	48.0	74.0	-26.0	Peak	Horizontal
	8369.5	36.0	12.3	48.3	74.0	-25.7	Peak	Horizontal
*	9644.5	37.3	15.5	52.8	77.3	-24.5	Peak	Horizontal
*	10214.0	35.5	16.5	52.0	77.3	-25.3	Peak	Horizontal
	7400.5	35.9	11.7	47.6	74.0	-26.4	Peak	Vertical
	8454.5	36.1	12.3	48.4	74.0	-25.6	Peak	Vertical
*	9746.5	35.9	15.8	51.7	77.3	-25.6	Peak	Vertical
*	10350	34.9	16.8	51.7	77.3	-25.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.3dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11b	Test Channel:	11
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
	7383.5	38.7	11.7	50.4	74.0	-23.6	Peak	Horizontal
	8259.0	34.4	12.2	46.6	74.0	-27.4	Peak	Horizontal
*	9848.5	34.9	16.1	51.0	79.1	-28.1	Peak	Horizontal
*	10299	32.5	16.5	49.0	79.1	-30.1	Peak	Horizontal
	7570.5	34.0	11.8	45.8	74.0	-28.2	Peak	Vertical
	8369.5	34.4	12.3	46.7	74.0	-27.3	Peak	Vertical
*	8726.5	35.7	13.2	48.9	79.1	-30.2	Peak	Vertical
*	9848.5	34.9	16.1	51.0	79.1	-28.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (99.1dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	01
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
	7715.0	37.1	11.7	48.8	74.0	-25.2	Peak	Horizontal
	8293.0	34.8	12.1	46.9	74.0	-27.1	Peak	Horizontal
*	9950.5	34.7	16.1	50.8	78.4	-27.6	Peak	Horizontal
*	10469.0	32.9	16.7	49.6	78.4	-28.8	Peak	Horizontal
	7409.0	33.9	11.7	45.6	74.0	-28.4	Peak	Vertical
	8250.5	35.2	12.3	47.5	74.0	-26.5	Peak	Vertical
*	8607.5	36.5	12.9	49.4	78.4	-29.0	Peak	Vertical
*	9950.5	34.6	16.1	50.7	78.4	-27.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.4dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	06
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
	7570.5	35.0	11.8	46.8	74.0	-27.2	Peak	Horizontal
	8361.0	35.7	12.2	47.9	74.0	-26.1	Peak	Horizontal
*	9245.0	35.6	14.9	50.5	80.2	-29.7	Peak	Horizontal
*	10052.5	34.4	16.1	50.5	80.2	-29.7	Peak	Horizontal
	7655.5	34.0	11.6	45.6	74.0	-28.4	Peak	Vertical
	8259.0	34.0	12.2	46.2	74.0	-27.8	Peak	Vertical
*	9738.0	34.8	15.7	50.5	80.2	-29.7	Peak	Vertical
*	10477.5	32.2	16.9	49.1	80.2	-31.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (102.2dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11g	Test Channel:	11
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
	7604.5	33.9	11.8	45.7	74.0	-28.3	Peak	Horizontal
	8140.0	34.2	12.5	46.7	74.0	-27.3	Peak	Horizontal
*	9857.0	34.7	16.0	50.7	82.1	-31.4	Peak	Horizontal
*	10392.5	33.9	16.9	50.8	82.1	-31.3	Peak	Horizontal
	7647.0	35.9	11.6	47.5	74.0	-26.5	Peak	Vertical
	8250.5	34.5	12.3	46.8	74.0	-27.2	Peak	Vertical
*	9823.0	34.5	16.0	50.5	82.1	-31.6	Peak	Vertical
*	10443.5	33.0	16.8	49.8	82.1	-32.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (102.1dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	01
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
	7409.0	35.3	11.7	47.0	74.0	-27.0	Peak	Horizontal
	8378.0	34.7	12.4	47.1	74.0	-26.9	Peak	Horizontal
*	9865.5	34.4	16.1	50.5	77.7	-27.2	Peak	Horizontal
*	10443.5	32.7	16.8	49.5	77.7	-28.2	Peak	Horizontal
	7604.5	35.5	11.8	47.3	74.0	-26.7	Peak	Vertical
	8250.5	35.3	12.3	47.6	74.0	-26.4	Peak	Vertical
*	9882.5	34.9	16.1	51.0	77.7	-26.7	Peak	Vertical
*	10333.0	34.5	16.8	51.3	77.7	-26.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.7dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	06
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
	7468.5	34.0	11.8	45.8	74.0	-28.2	Peak	Horizontal
	8369.5	35.4	12.3	47.7	74.0	-26.3	Peak	Horizontal
*	8854.0	33.8	13.4	47.2	78.8	-31.6	Peak	Horizontal
*	10027.0	32.4	16.0	48.4	78.8	-30.4	Peak	Horizontal
	7468.5	34.2	11.8	46.0	74.0	-28.0	Peak	Vertical
	8276.0	36.3	12.0	48.3	74.0	-25.7	Peak	Vertical
*	8794.5	34.0	13.3	47.3	78.8	-31.5	Peak	Vertical
*	10035.5	32.3	16.1	48.4	78.8	-30.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.8dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT20	Test Channel:	11
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
	7511.0	35.6	11.9	47.5	74.0	-26.5	Peak	Horizontal
	8378.0	35.5	12.4	47.9	74.0	-26.1	Peak	Horizontal
*	9857.0	34.5	16.0	50.5	80.7	-30.2	Peak	Horizontal
*	10299.0	34.1	16.5	50.6	80.7	-30.1	Peak	Horizontal
	7604.5	36.3	11.8	48.1	74.0	-25.9	Peak	Vertical
	8182.5	34.2	12.4	46.6	74.0	-27.4	Peak	Vertical
*	8930.5	33.1	13.4	46.5	80.7	-34.2	Peak	Vertical
*	10035.5	33.8	16.1	49.9	80.7	-30.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (100.7dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	03
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
	7553.5	37.0	11.9	48.9	74.0	-25.1	Peak	Horizontal
	8157.0	35.9	12.4	48.3	74.0	-25.7	Peak	Horizontal
*	8599.0	35.7	12.9	48.6	76.2	-27.6	Peak	Horizontal
*	9891.0	32.9	16.2	49.1	76.2	-27.1	Peak	Horizontal
	7315.5	36.1	11.7	47.8	74.0	-26.2	Peak	Vertical
	8174.0	35.8	12.4	48.2	74.0	-25.8	Peak	Vertical
*	9848.5	33.0	16.1	49.1	76.2	-27.1	Peak	Vertical
*	12959.5	34.6	17.7	52.3	76.2	-23.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (96.2dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	06
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
	7613.0	35.3	11.9	47.2	74.0	-26.8	Peak	Horizontal
	8216.5	34.8	12.3	47.1	74.0	-26.9	Peak	Horizontal
*	8675.5	32.8	13.1	45.9	77.3	-31.4	Peak	Horizontal
*	9933.5	31.1	16.1	47.2	77.3	-30.1	Peak	Horizontal
	7485.5	35.2	11.9	47.1	74.0	-26.9	Peak	Vertical
	8182.5	36.2	12.4	48.6	74.0	-25.4	Peak	Vertical
*	9865.5	34.6	16.1	50.7	77.3	-26.6	Peak	Vertical
*	12917	33.7	17.8	51.5	77.3	-25.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (97.3dBμV/m) or FCC 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	Wearable & Handheld Translation Device	Temperature	25°C
Test Engineer	Bacon Dong	Relative Humidity	54%
Test Site	AC1	Test Date	2019/08/31
Test Mode:	802.11n-HT40	Test Channel:	09
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
	7604.5	34.5	11.8	46.3	74.0	-27.7	Peak	Horizontal
	8310.0	34.6	12.4	47.0	74.0	-27.0	Peak	Horizontal
*	10035.5	34.1	16.1	50.2	78.4	-28.2	Peak	Horizontal
*	10367.0	32.5	16.9	49.4	78.4	-29.0	Peak	Horizontal
	7681.0	35.9	11.8	47.7	74.0	-26.3	Peak	Vertical
	8429.0	35.9	12.4	48.3	74.0	-25.7	Peak	Vertical
*	9619.0	35.3	15.6	50.9	78.4	-27.5	Peak	Vertical
*	10256.5	32.3	16.5	48.8	78.4	-29.6	Peak	Vertical

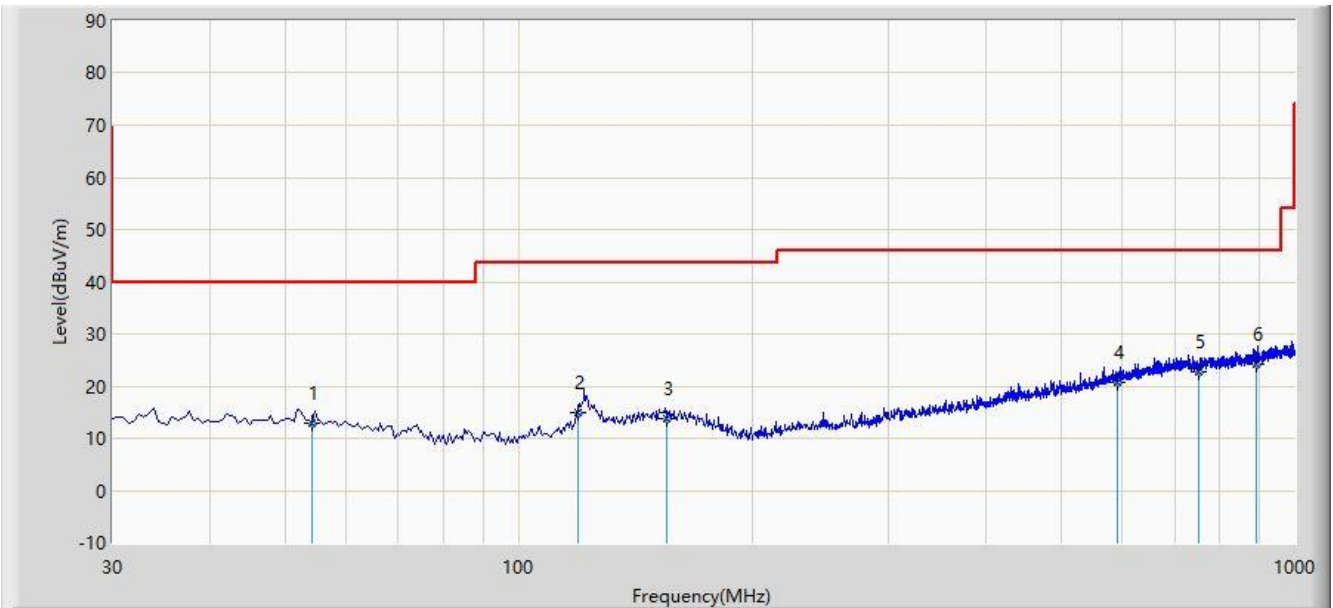
Note 1: “*” is not in restricted band, its limit is 20dBc of the fundamental emission level (98.4dBμV/m) or FCC 15.209 which is higher.

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: AC1	Time: 2019/08/31 - 15:47
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bacon Dong
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Worst Case Mode: Transmit by 802.11b at Channel 2437MHz	



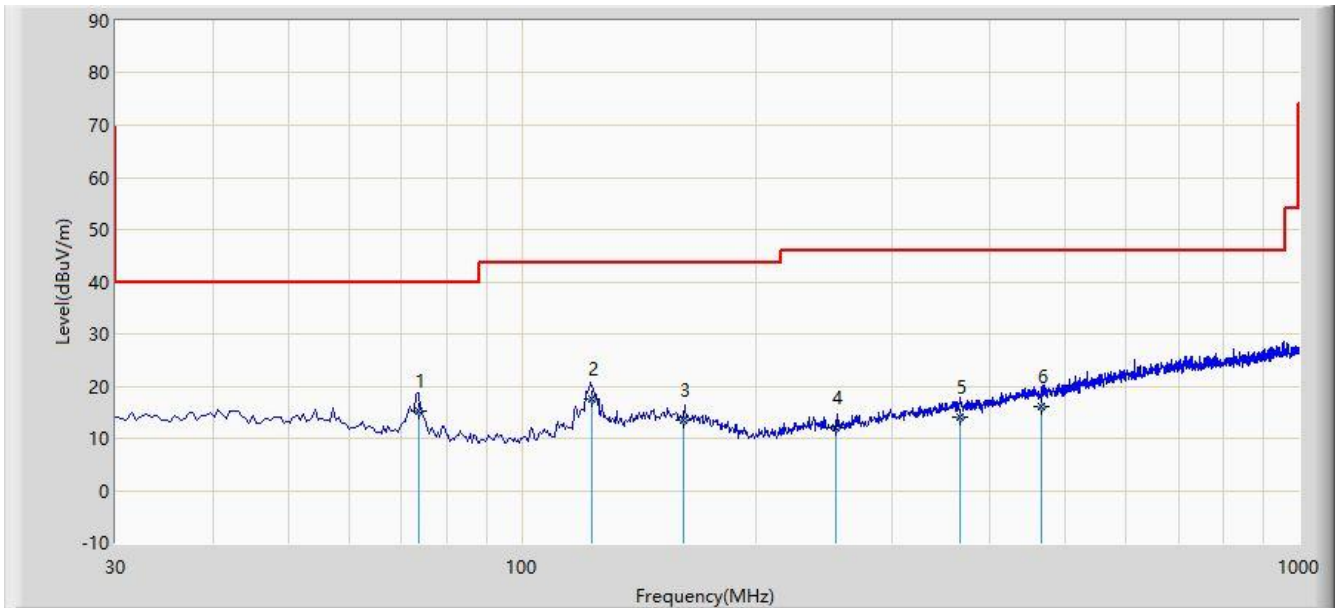
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		54.250	12.920	-1.022	-27.080	40.000	13.942	QP
2		119.240	14.868	1.622	-28.632	43.500	13.246	QP
3		155.130	13.652	-1.752	-29.848	43.500	15.404	QP
4		589.690	20.854	0.175	-25.146	46.000	20.679	QP
5		751.195	22.866	-0.304	-23.134	46.000	23.169	QP
6	*	893.300	24.072	-0.592	-21.928	46.000	24.665	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + 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: AC1	Time: 2019/08/31 - 15:49
Limit: FCC_Part15.209_RSE(3m)	Engineer: Bacon Dong
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Worst Case Mode: Transmit by 802.11b at Channel 2437MHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1	*	73.581	15.251	4.109	-24.749	40.000	11.141	QP
2		122.891	17.636	4.121	-25.864	43.500	13.515	QP
3		161.591	13.372	-1.892	-30.128	43.500	15.264	QP
4		254.109	12.140	-1.102	-33.860	46.000	13.242	QP
5		366.405	13.917	-2.135	-32.083	46.000	16.052	QP
6		467.129	16.154	-2.123	-29.846	46.000	18.277	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + 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.

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Limit

For 15.205 requirement:

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

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 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	(²)
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

7.7.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

7.7.3.Test Setting

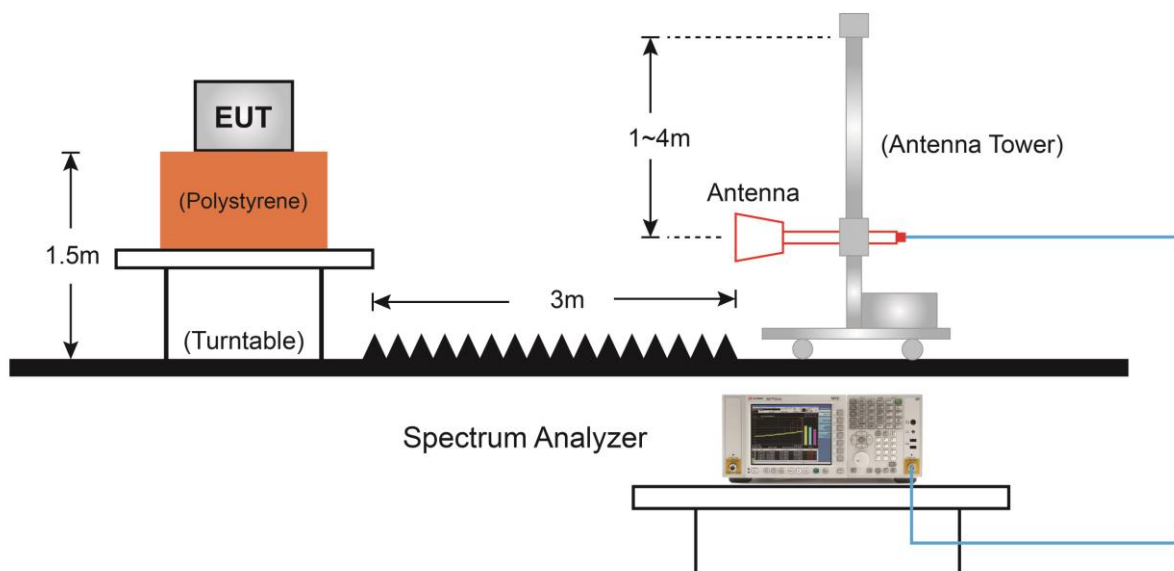
Peak Field Strength Measurements

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

Average Field Strength Measurements

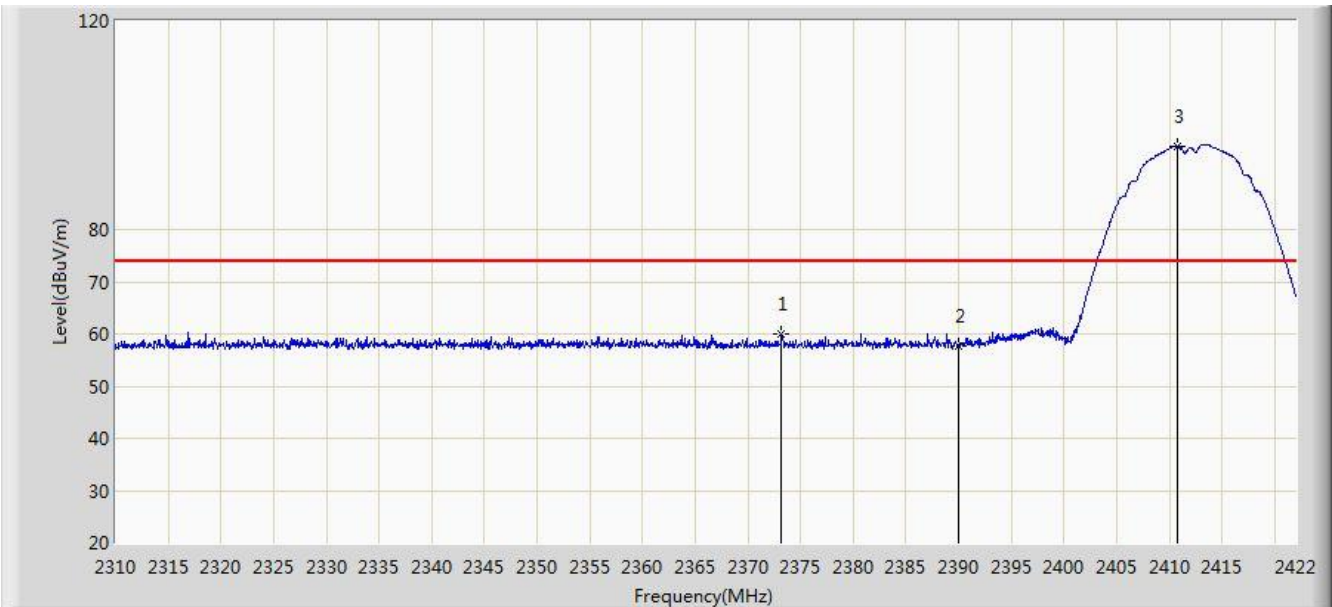
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW $\geq 1/T$
4. As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode
5. Detector = Peak
6. Sweep time = auto
7. Trace mode = max hold
8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.7.4. Test Setup



7.7.5.Test Result

Site: AC1	Time: 2019/09/19 - 03:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

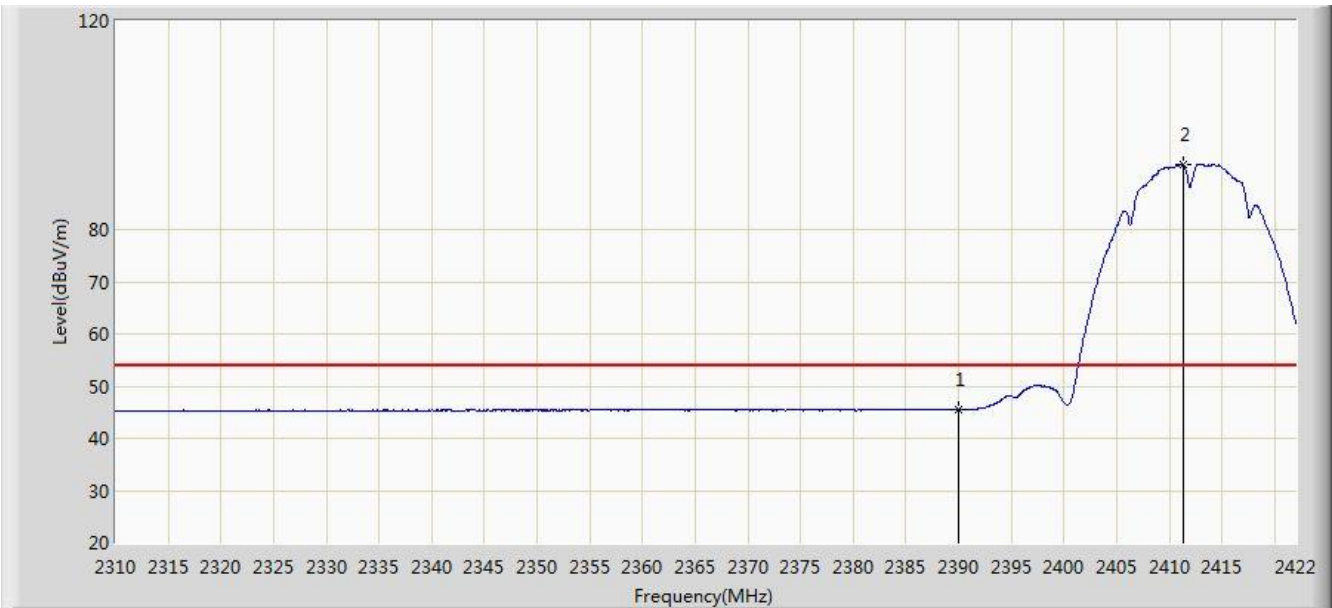


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2373.224	59.884	27.439	-14.116	74.000	32.445	PK
2			2390.000	57.777	25.364	-16.223	74.000	32.413	PK
3		*	2410.800	96.009	63.623	N/A	N/A	32.386	PK

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

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

Site: AC1	Time: 2019/09/19 - 03:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

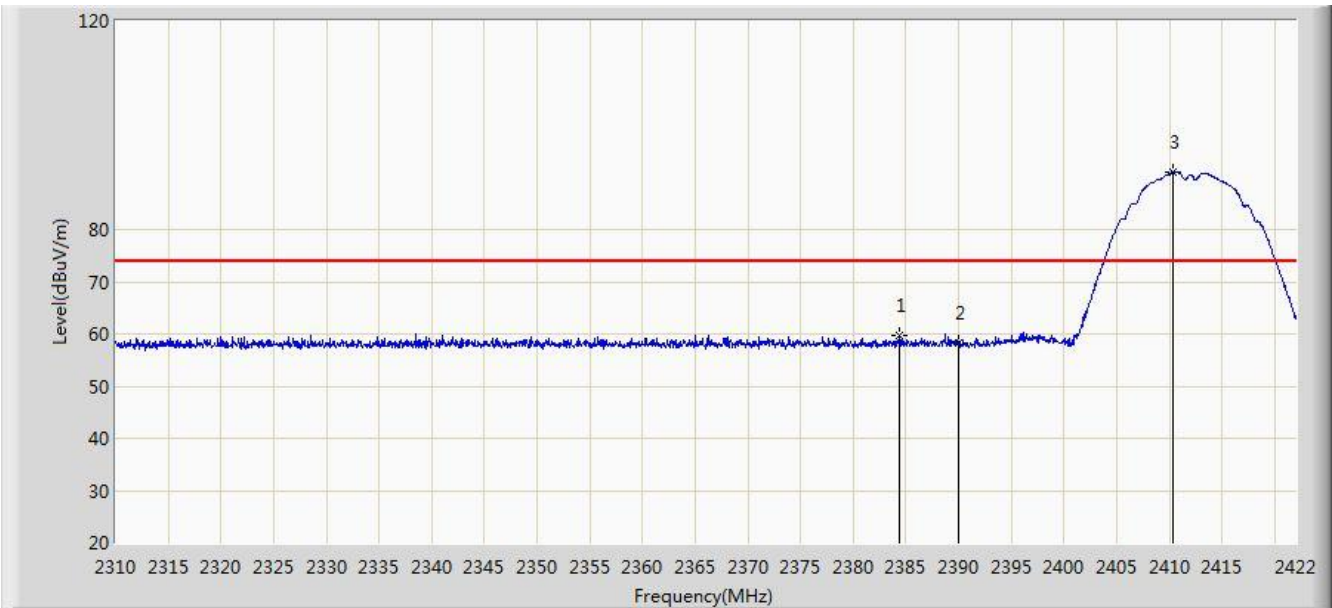


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.434	13.021	-8.566	54.000	32.413	AV
2		*	2411.304	92.538	60.153	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/09/19 - 03:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

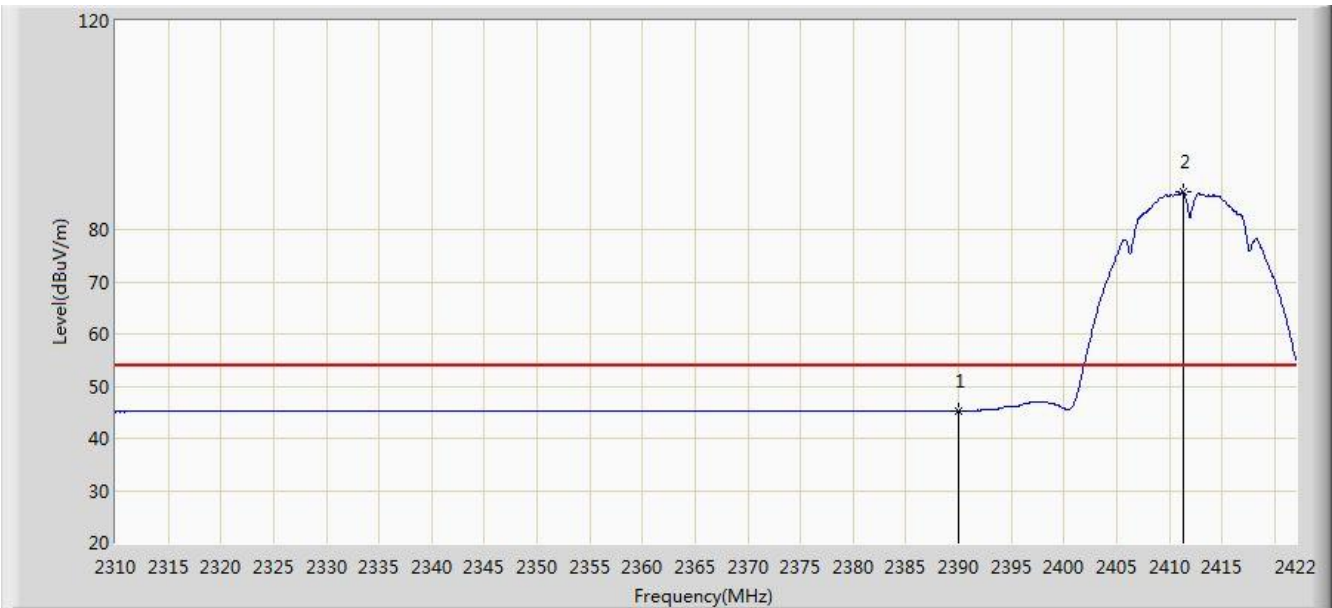


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2384.368	59.645	27.222	-14.355	74.000	32.423	PK
2			2390.000	58.296	25.883	-15.704	74.000	32.413	PK
3		*	2410.408	90.977	58.591	N/A	N/A	32.386	PK

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

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

Site: AC1	Time: 2019/09/19 - 03:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2412MHz	

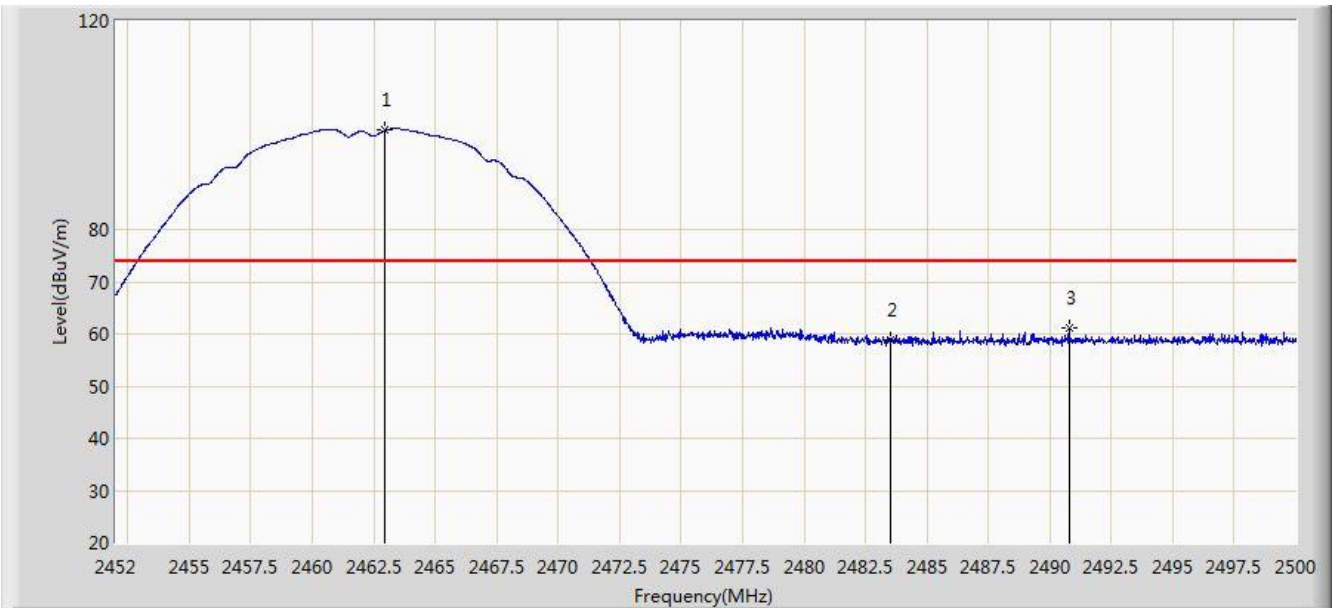


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.270	12.857	-8.730	54.000	32.413	AV
2		*	2411.304	87.109	54.724	N/A	N/A	32.385	AV

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

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

Site: AC1	Time: 2019/09/19 - 03:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

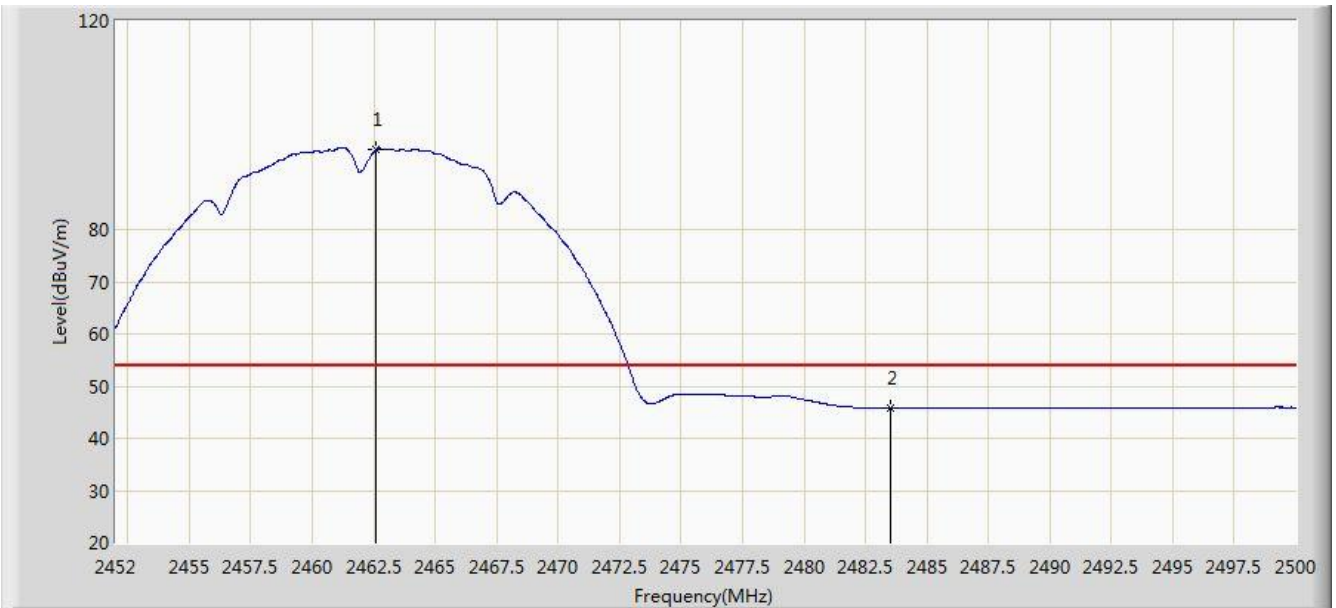


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.944	99.079	66.711	N/A	N/A	32.368	PK
2			2483.500	58.910	26.495	-15.090	74.000	32.416	PK
3			2490.784	61.294	28.864	-12.706	74.000	32.430	PK

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

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

Site: AC1	Time: 2019/09/19 - 03:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

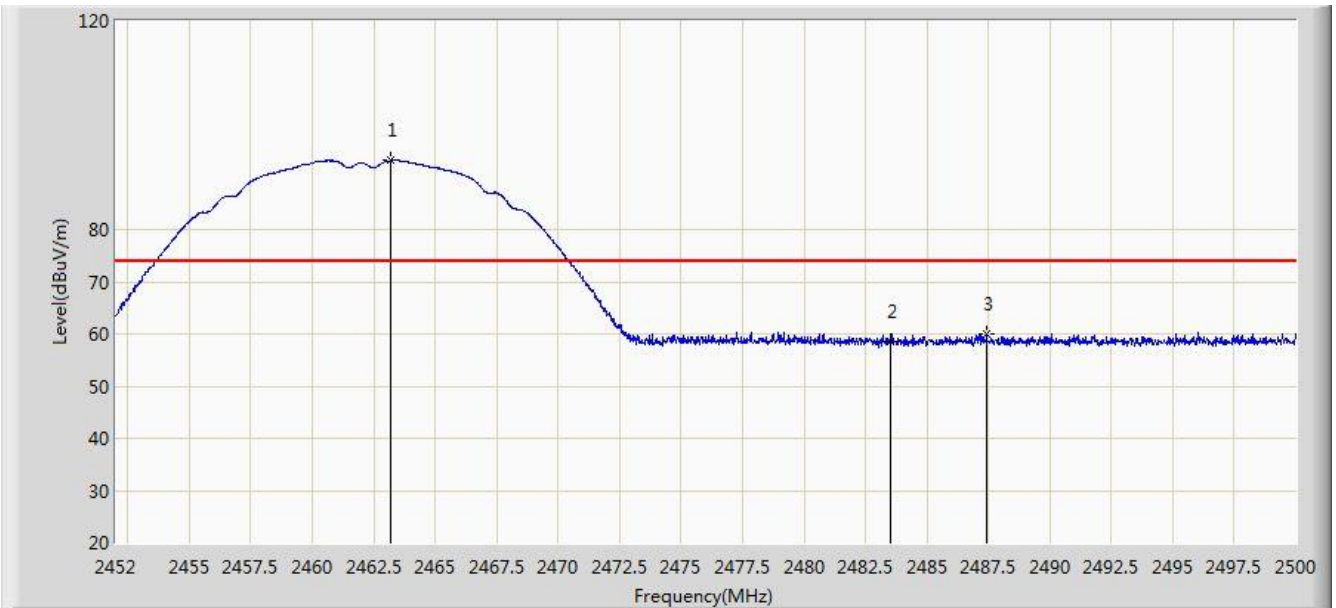


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.608	95.316	62.949	N/A	N/A	32.367	AV
2			2483.500	45.794	13.379	-8.206	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 03:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.184	93.189	60.821	N/A	N/A	32.368	PK
2			2483.500	58.547	26.132	-15.453	74.000	32.416	PK
3			2487.424	59.974	27.551	-14.026	74.000	32.423	PK

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

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

Site: AC1	Time: 2019/09/19 - 03:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11b at channel 2462MHz	

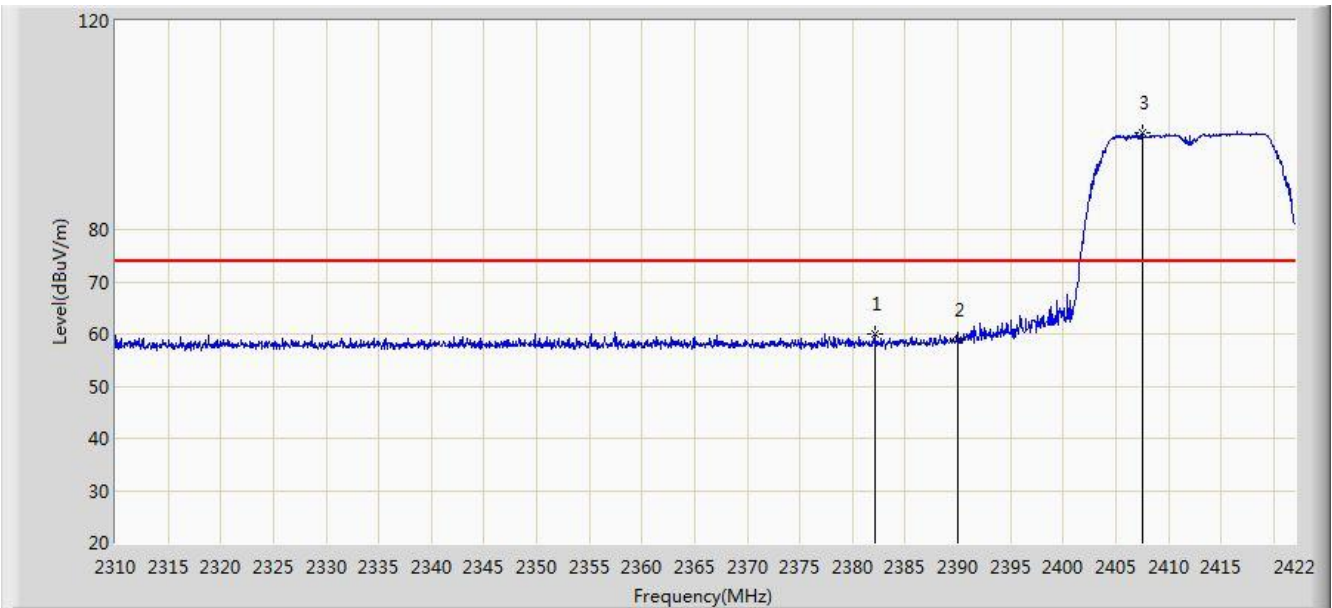


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.656	89.165	56.798	N/A	N/A	32.367	AV
2			2483.500	45.733	13.318	-8.267	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 03:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

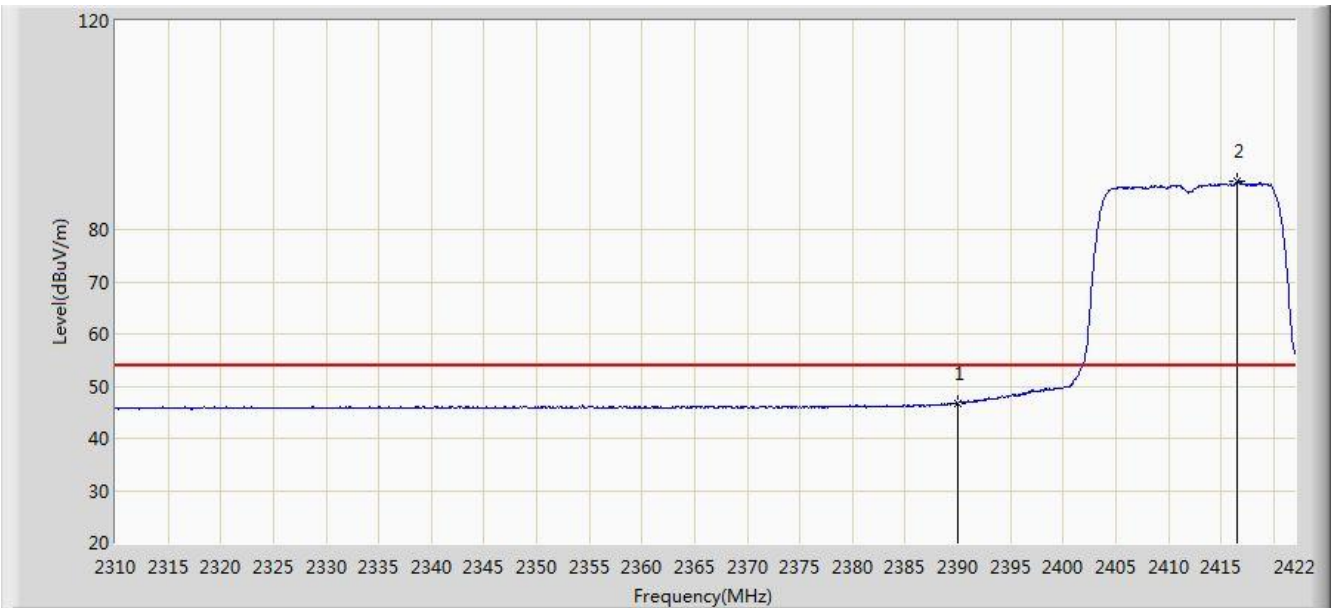


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2382.072	59.933	27.506	-14.067	74.000	32.427	PK
2			2390.000	58.984	26.571	-15.016	74.000	32.413	PK
3		*	2407.552	98.444	66.055	N/A	N/A	32.390	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

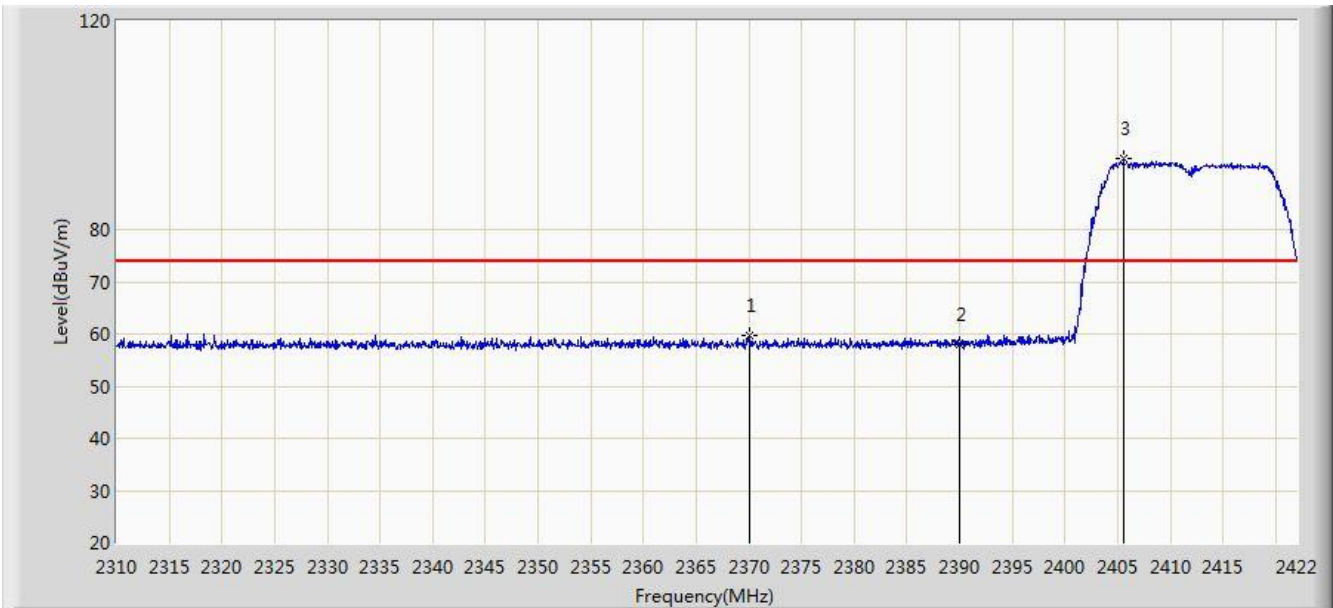


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.735	14.322	-7.265	54.000	32.413	AV
2		*	2416.512	89.145	56.766	N/A	N/A	32.379	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

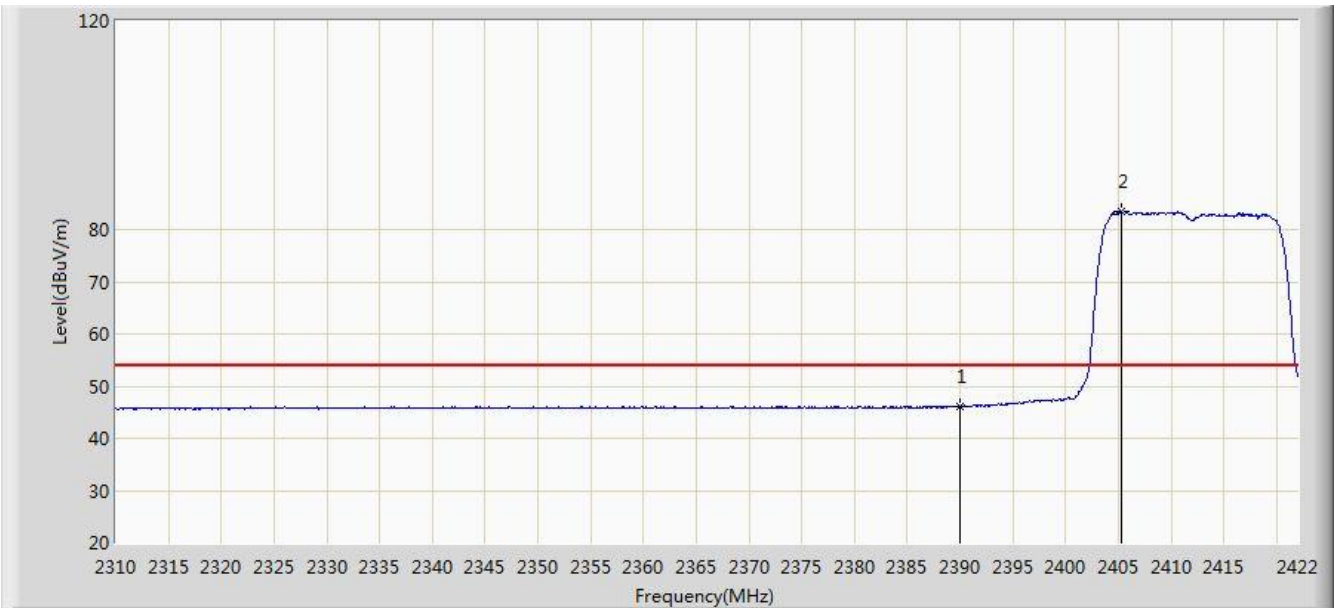


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2370.088	59.642	27.190	-14.358	74.000	32.453	PK
2			2390.000	57.964	25.551	-16.036	74.000	32.413	PK
3		*	2405.592	93.580	61.188	N/A	N/A	32.392	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2412MHz	

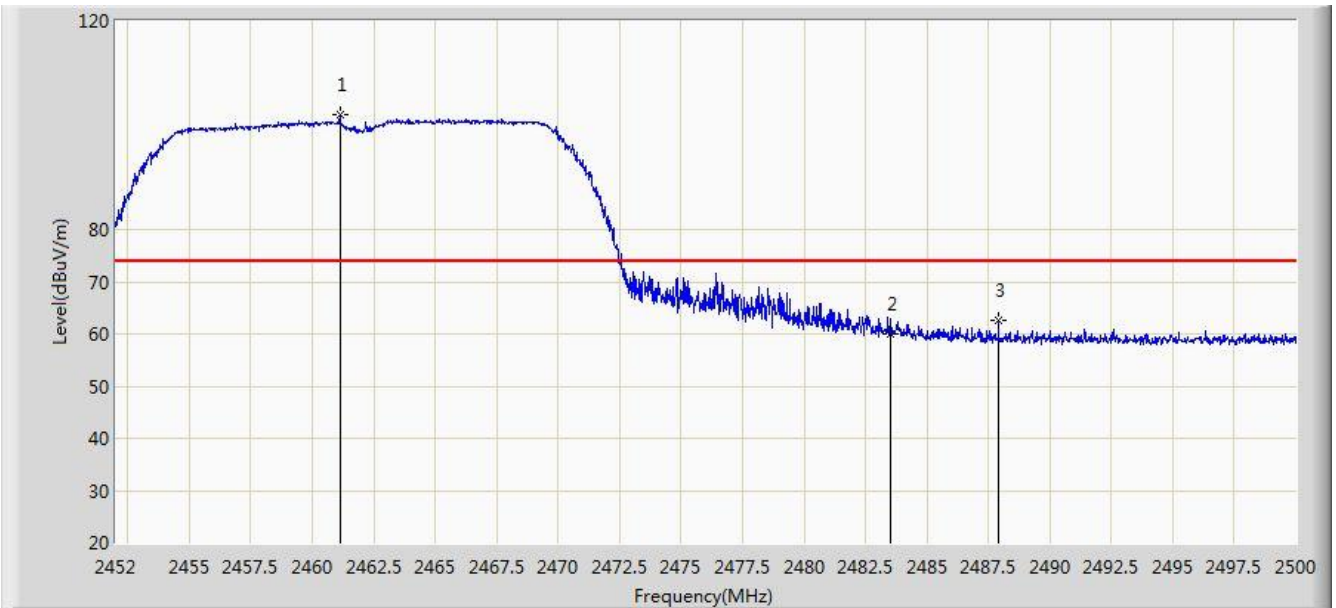


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.057	13.644	-7.943	54.000	32.413	AV
2		*	2405.312	83.516	51.124	N/A	N/A	32.392	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

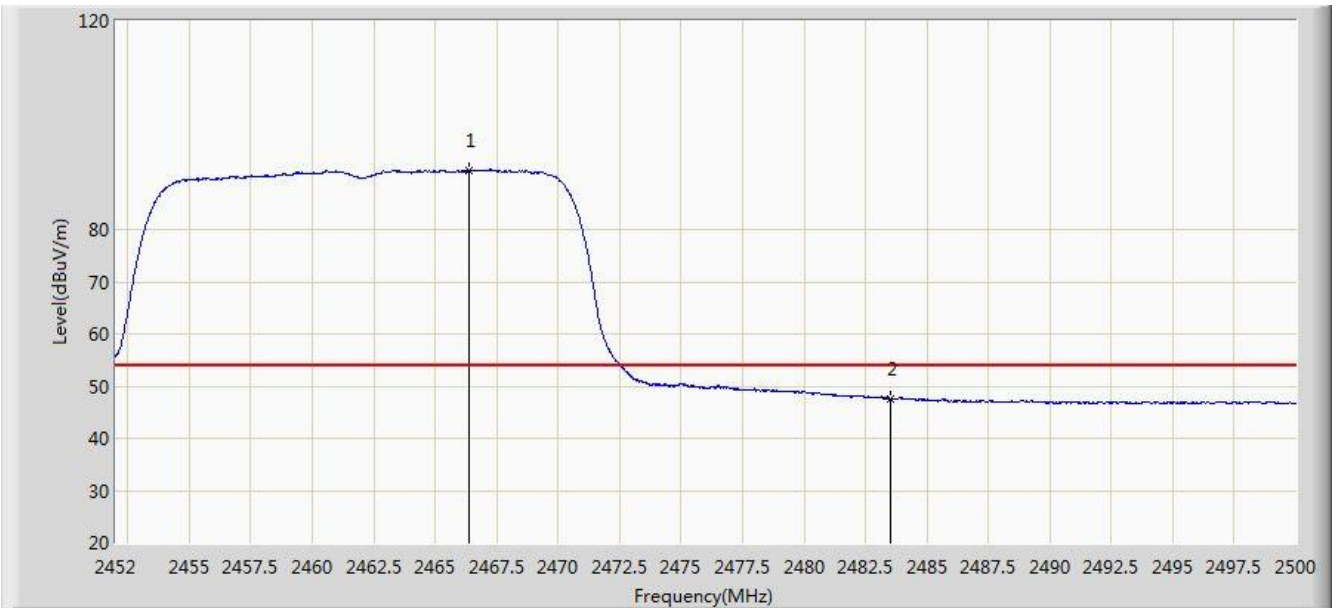


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.120	102.122	69.757	N/A	N/A	32.365	PK
2			2483.500	59.866	27.451	-14.134	74.000	32.416	PK
3			2487.904	62.465	30.041	-11.535	74.000	32.425	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

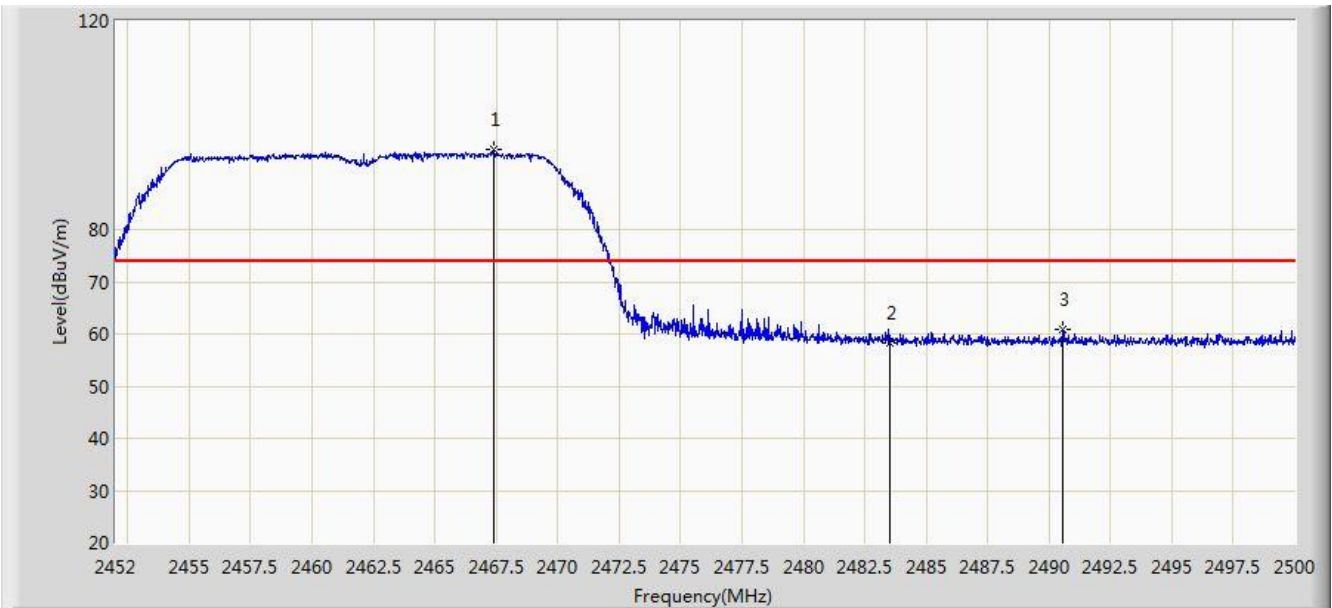


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.376	91.347	58.972	N/A	N/A	32.376	AV
2			2483.500	47.651	15.236	-6.349	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

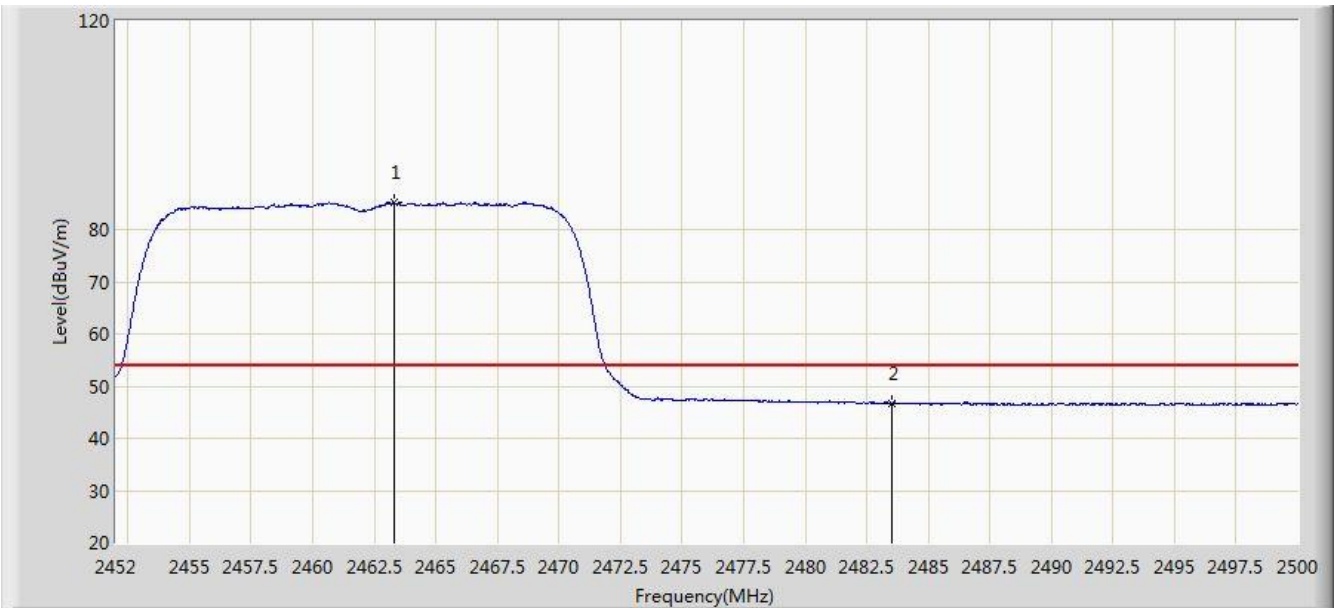


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.384	95.485	63.107	N/A	N/A	32.377	PK
2			2483.500	58.318	25.903	-15.682	74.000	32.416	PK
3			2490.568	60.920	28.491	-13.080	74.000	32.429	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11g at channel 2462MHz	

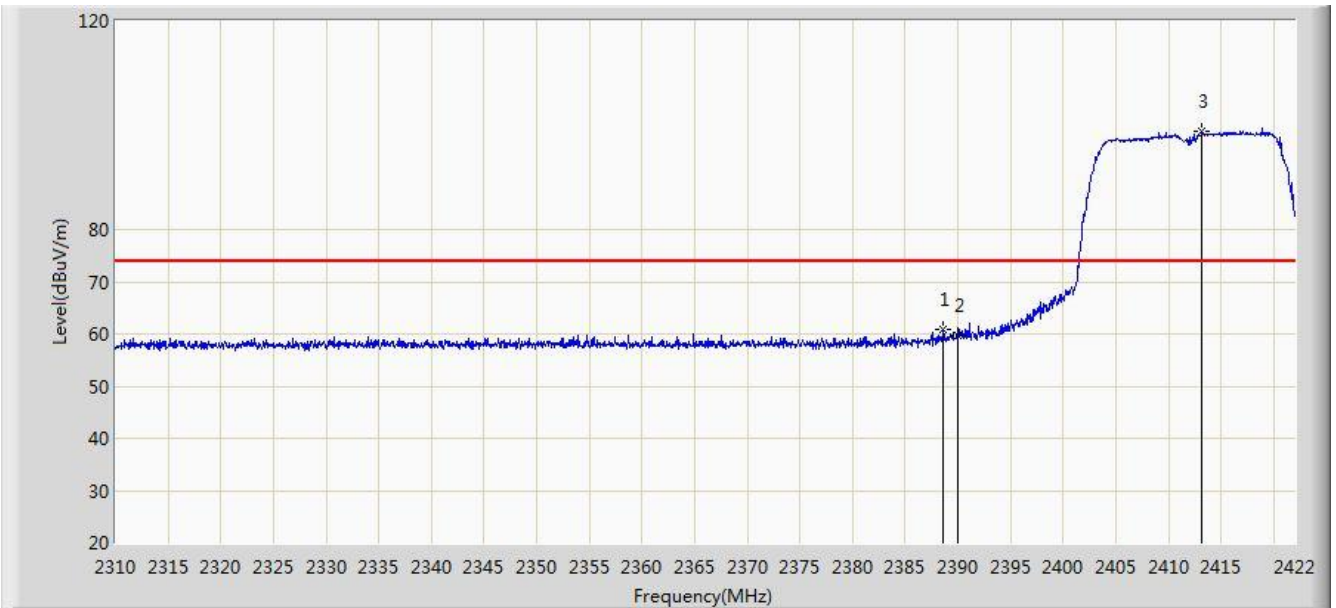


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.280	85.074	52.706	N/A	N/A	32.369	AV
2			2483.500	46.791	14.376	-7.209	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:17
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

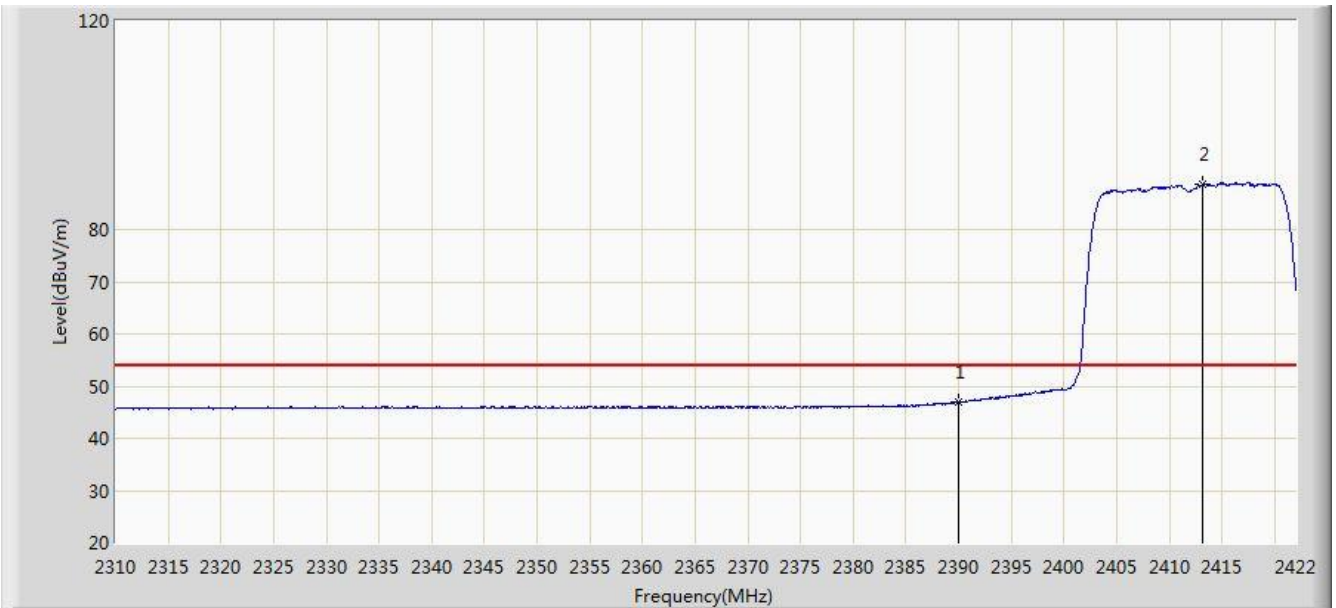


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.624	60.991	28.576	-13.009	74.000	32.415	PK
2			2390.000	59.674	27.261	-14.326	74.000	32.413	PK
3		*	2413.152	98.737	66.354	N/A	N/A	32.383	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:19
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

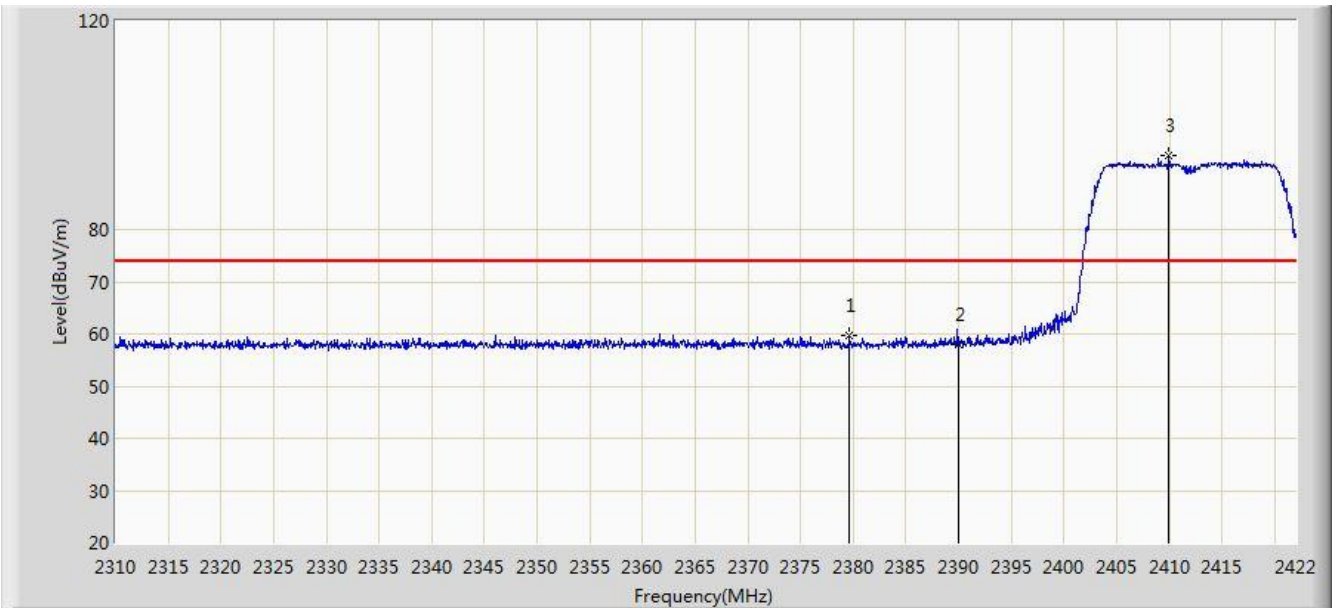


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.989	14.576	-7.011	54.000	32.413	AV
2		*	2413.208	88.808	56.425	N/A	N/A	32.383	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

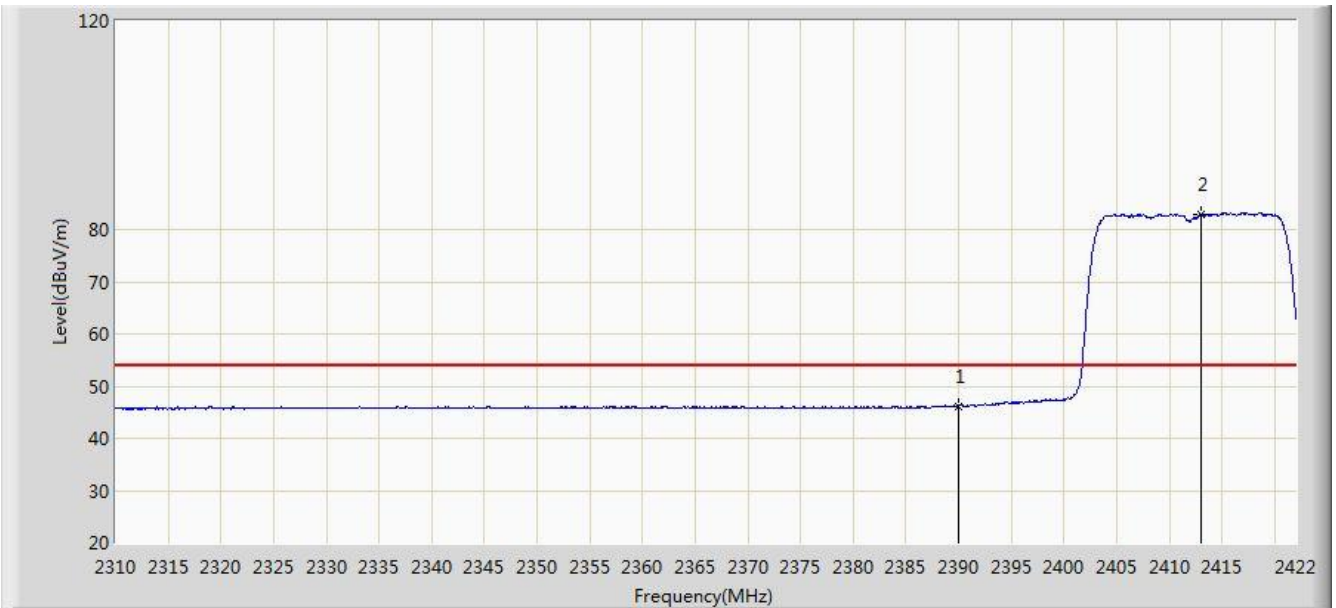


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2379.608	59.777	27.345	-14.223	74.000	32.432	PK
2			2390.000	58.110	25.697	-15.890	74.000	32.413	PK
3		*	2409.960	94.097	61.711	N/A	N/A	32.387	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2412MHz	

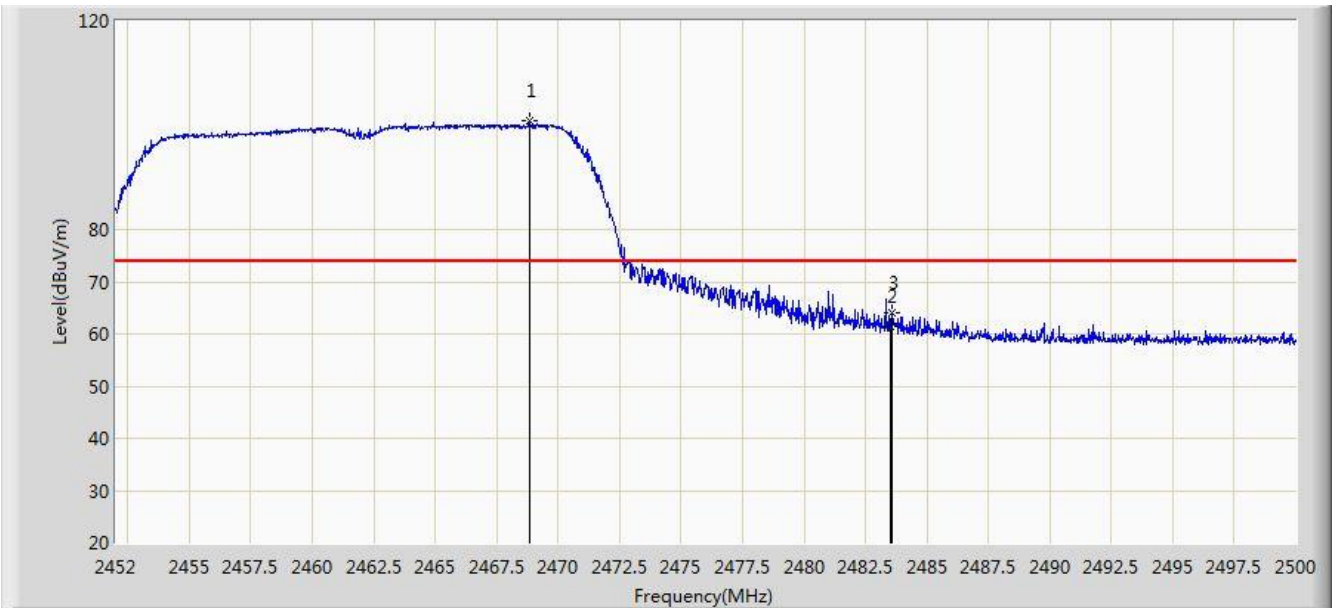


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.231	13.818	-7.769	54.000	32.413	AV
2		*	2412.984	82.953	50.570	N/A	N/A	32.383	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:24
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

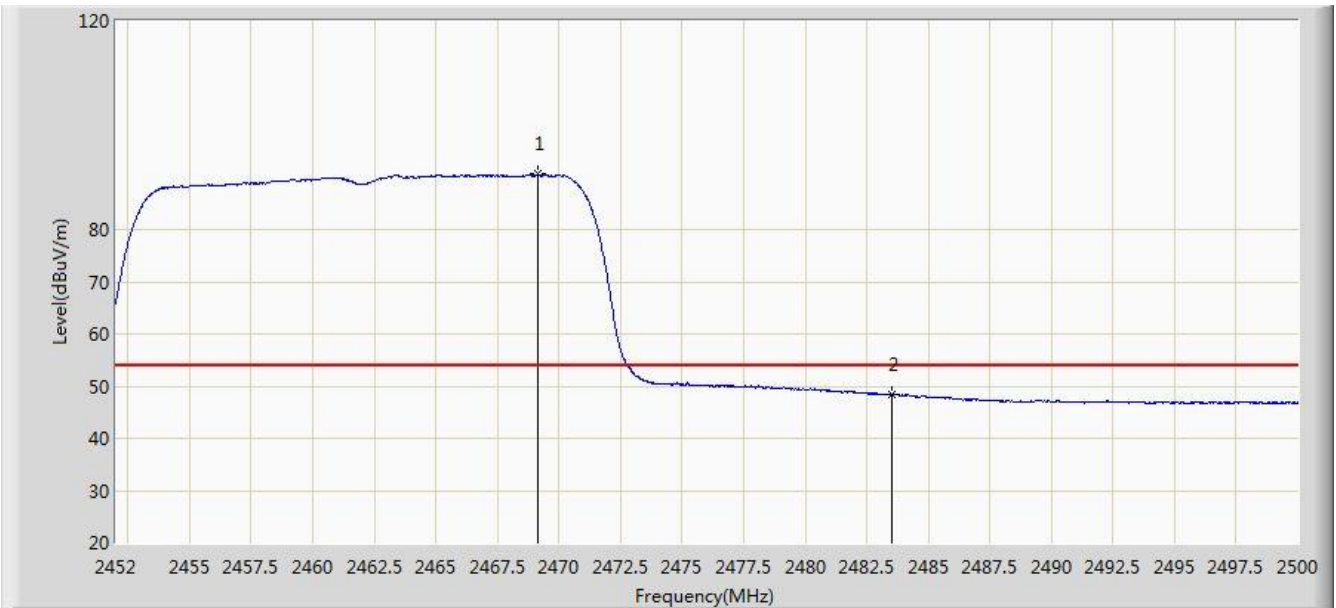


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.824	100.732	68.351	N/A	N/A	32.381	PK
2			2483.500	61.467	29.052	-12.533	74.000	32.416	PK
3			2483.560	64.102	31.686	-9.898	74.000	32.416	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

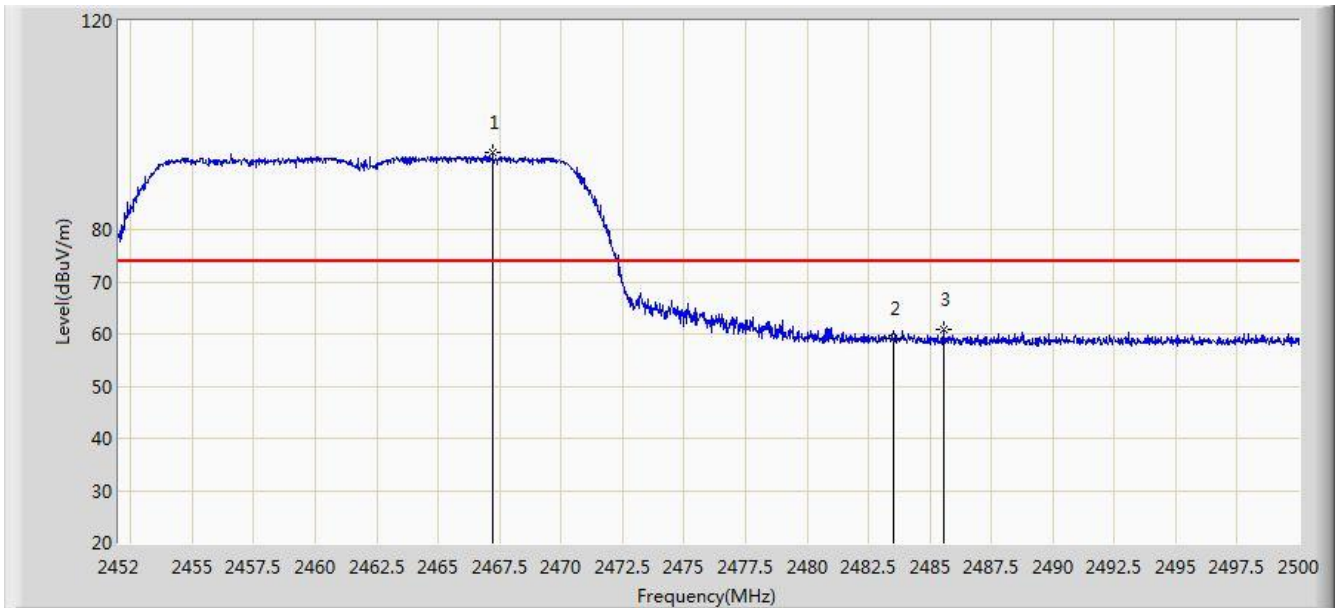


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2469.136	90.607	58.225	N/A	N/A	32.383	AV
2			2483.500	48.320	15.905	-5.680	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

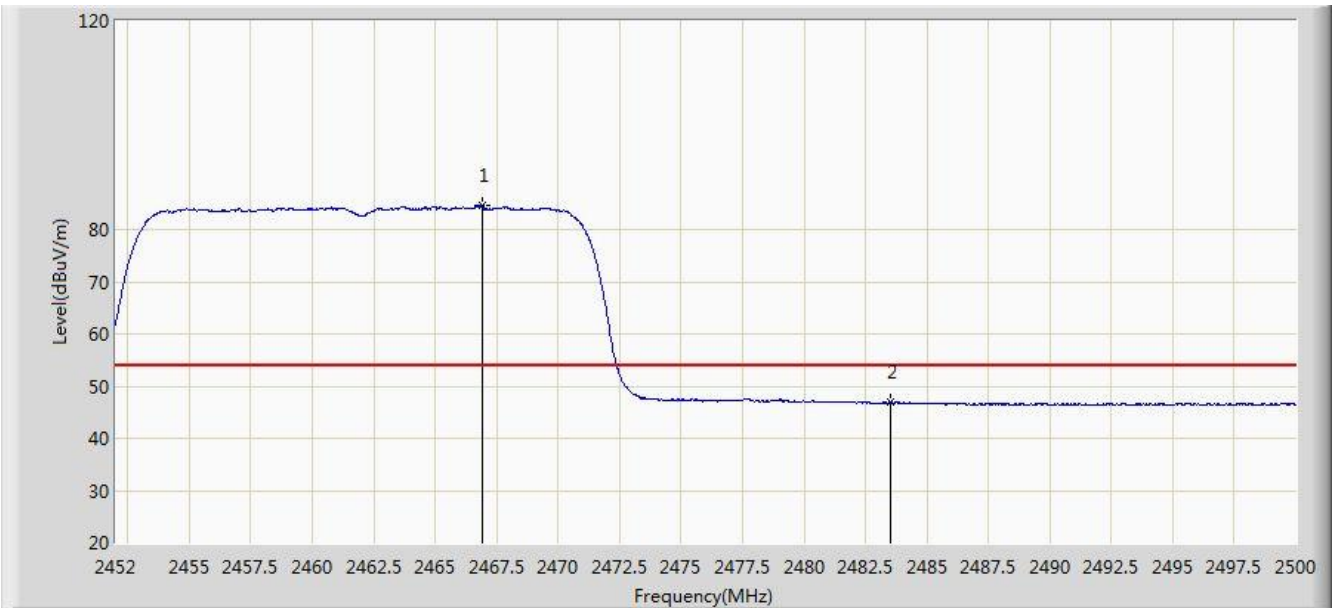


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2467.216	94.841	62.463	N/A	N/A	32.377	PK
2			2483.500	59.077	26.662	-14.923	74.000	32.416	PK
3			2485.552	60.957	28.538	-13.043	74.000	32.419	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT20 at channel 2462MHz	

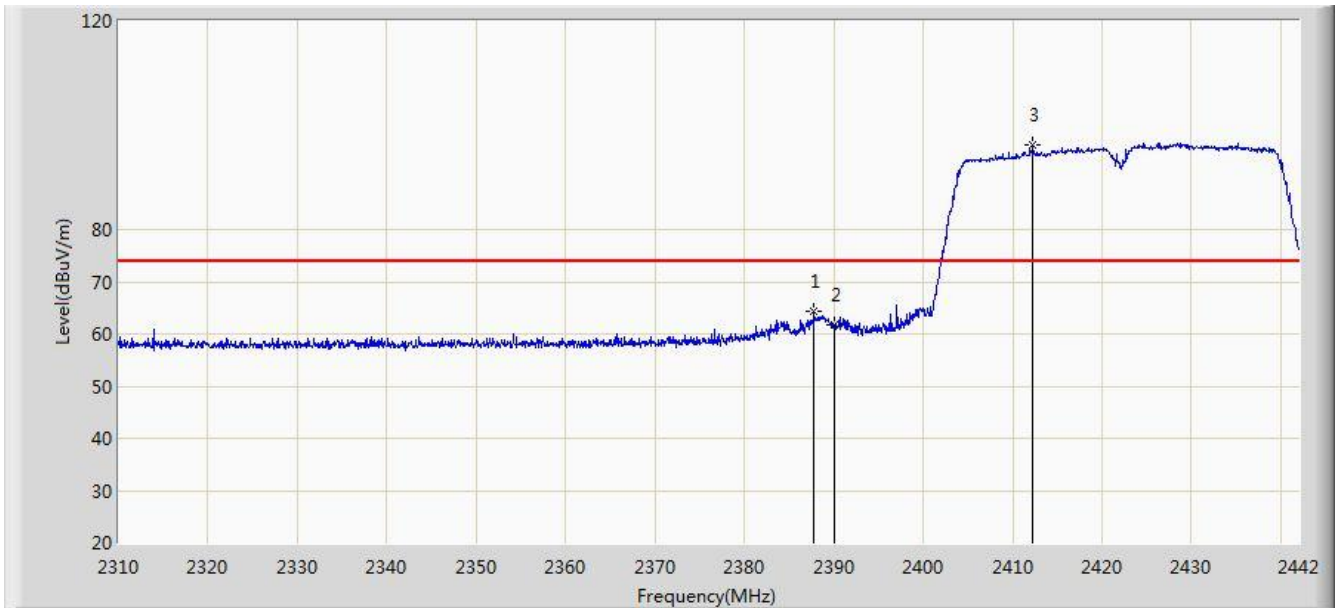


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.904	84.606	52.229	N/A	N/A	32.377	AV
2			2483.500	46.821	14.406	-7.179	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

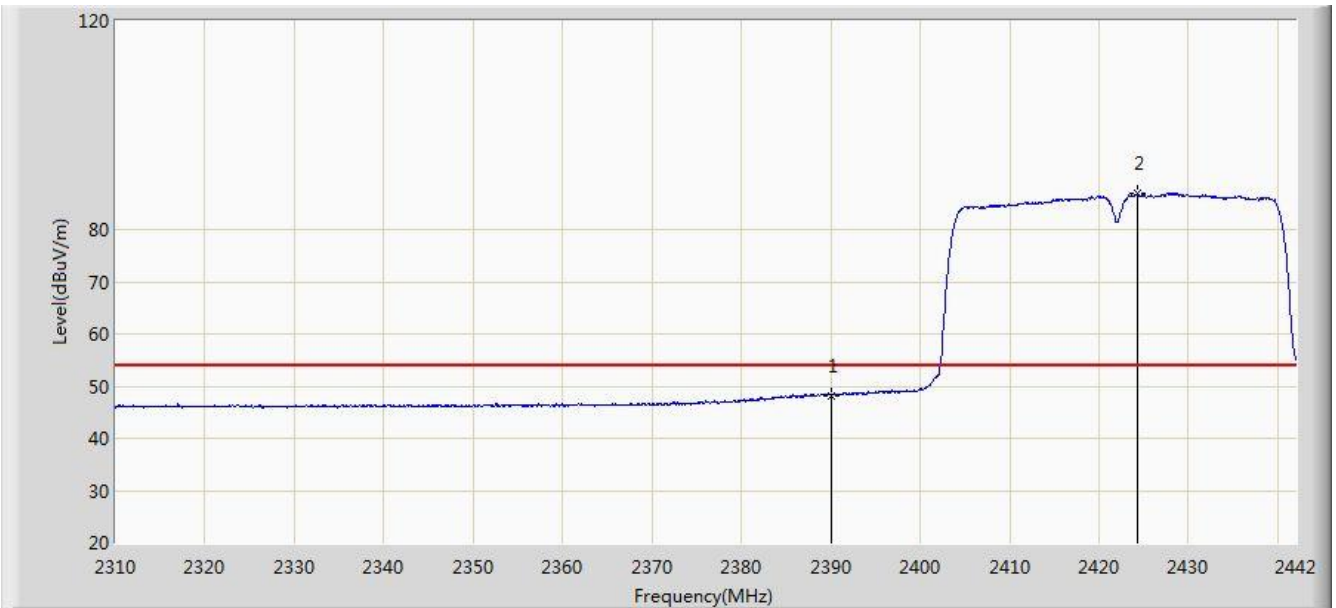


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.814	64.258	31.841	-9.742	74.000	32.416	PK
2			2390.000	61.664	29.251	-12.336	74.000	32.413	PK
3		*	2412.234	96.172	63.788	N/A	N/A	32.384	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

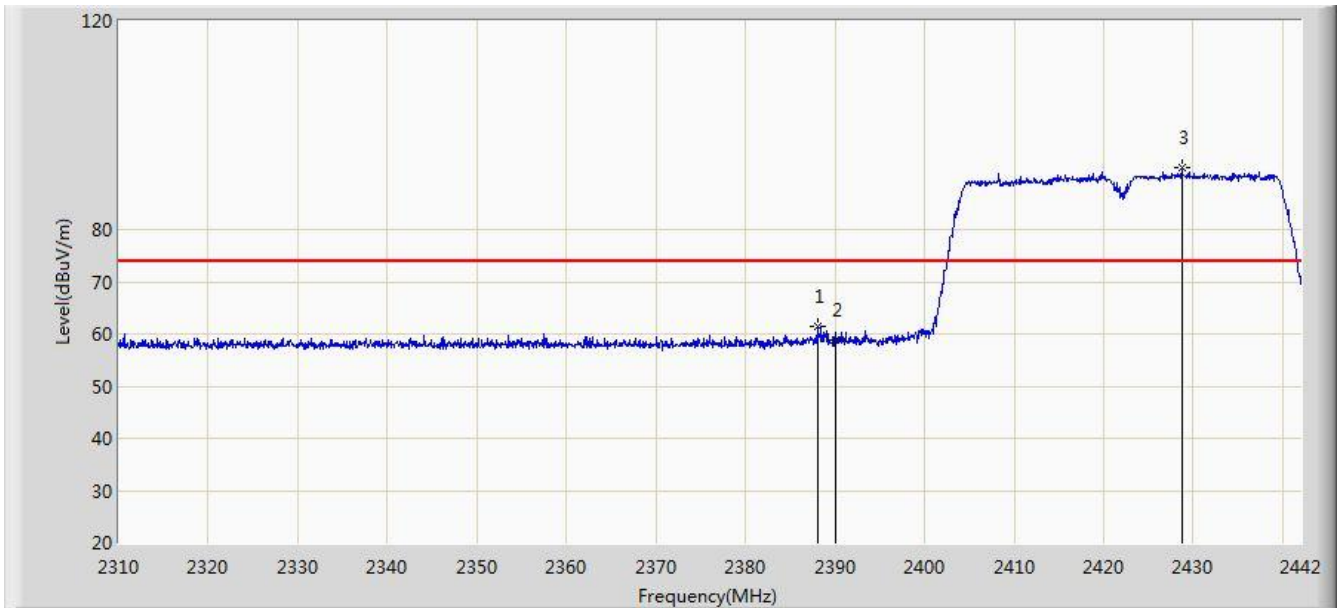


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	48.215	15.802	-5.785	54.000	32.413	AV
2		*	2424.246	86.935	54.565	N/A	N/A	32.370	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:39
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

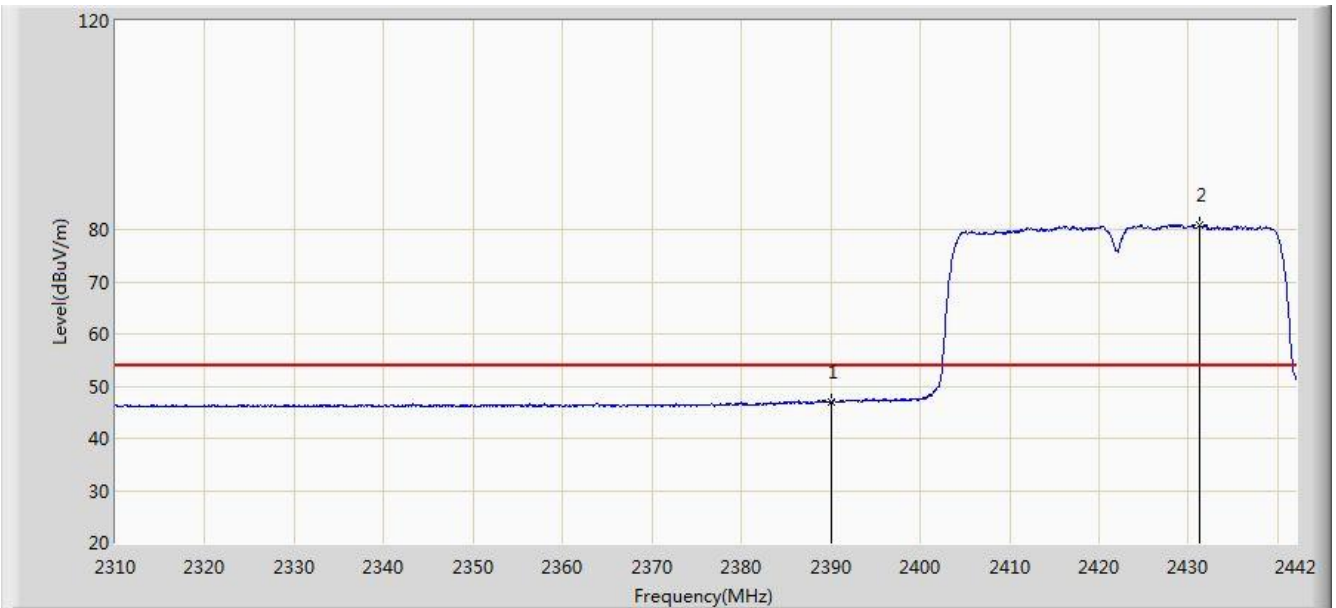


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.078	61.520	29.104	-12.480	74.000	32.416	PK
2			2390.000	58.766	26.353	-15.234	74.000	32.413	PK
3		*	2428.734	91.996	59.631	N/A	N/A	32.365	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2422MHz	

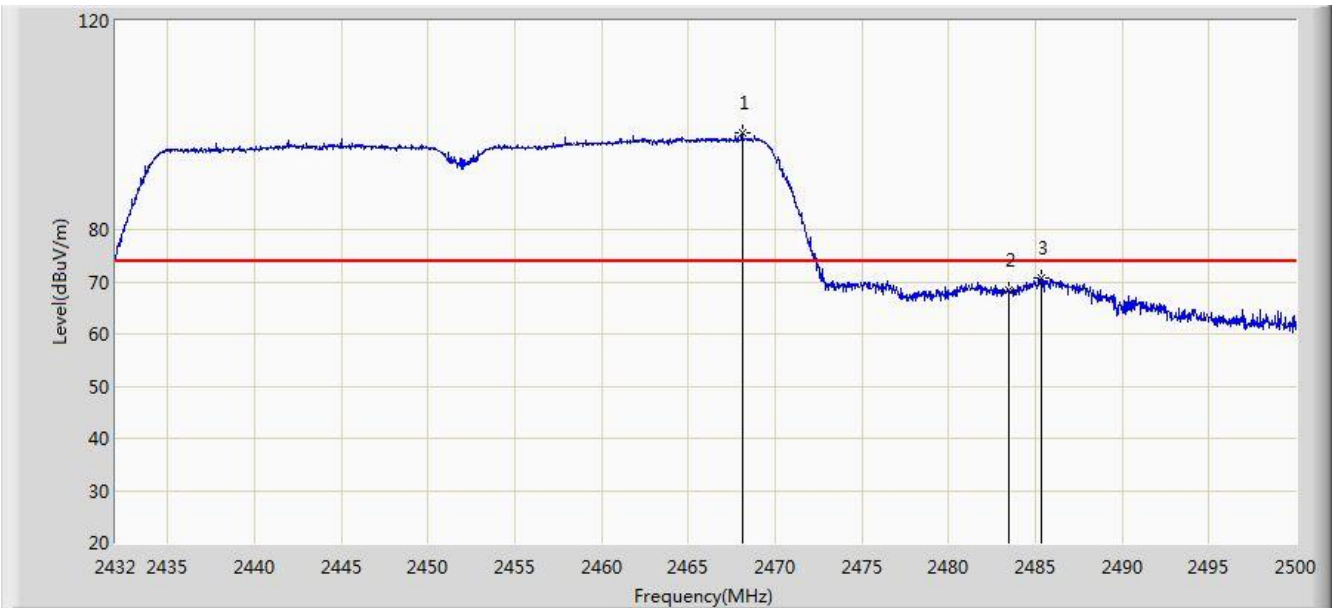


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	47.002	14.589	-6.998	54.000	32.413	AV
2		*	2431.242	80.775	48.414	26.775	54.000	32.360	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

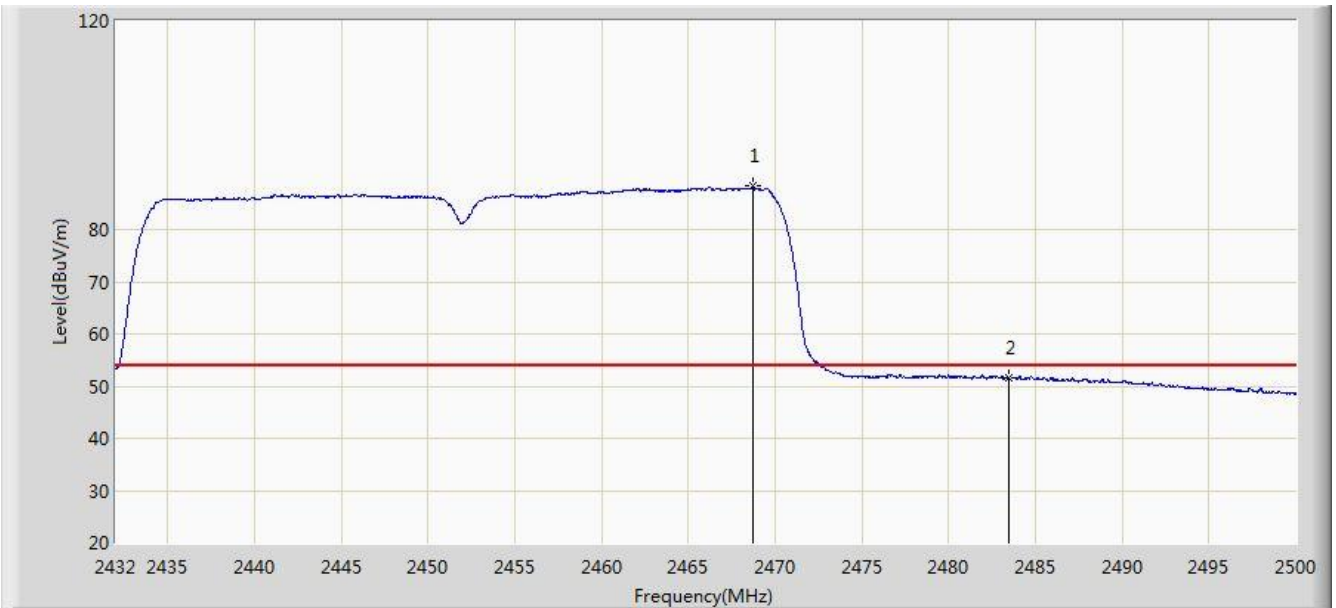


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.108	98.413	66.033	N/A	N/A	32.380	PK
2			2483.500	68.360	35.945	-5.640	74.000	32.416	PK
3			2485.380	70.776	38.357	-3.224	74.000	32.419	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

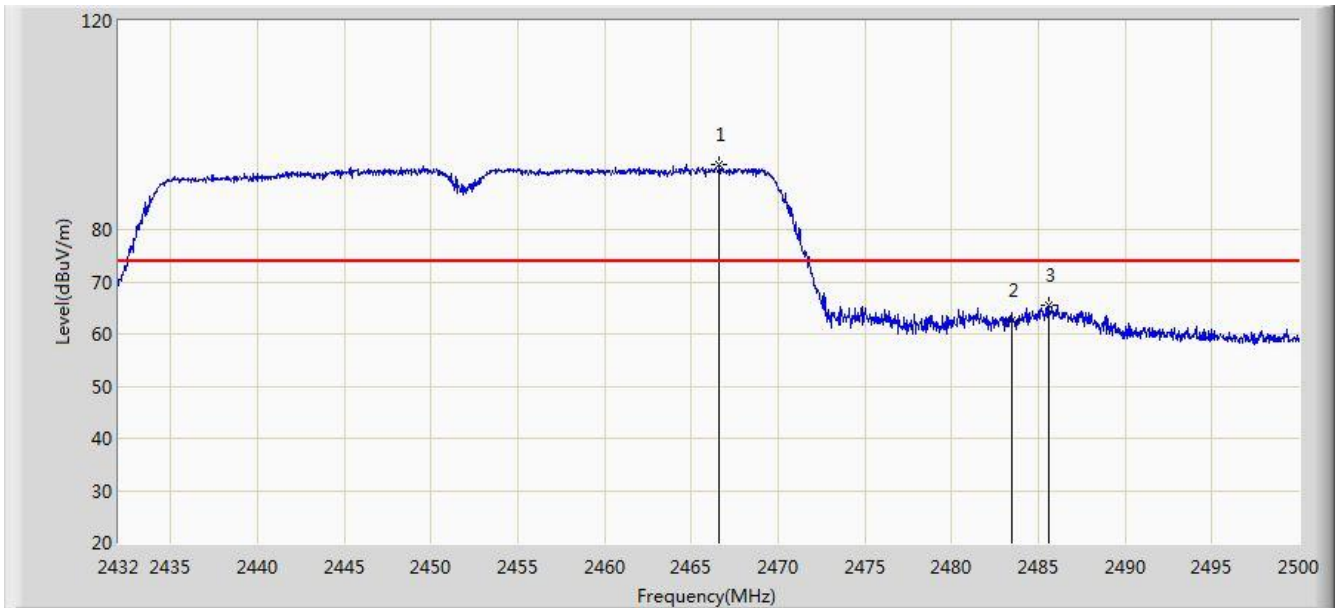


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2468.754	88.298	55.917	N/A	N/A	32.381	AV
2			2483.500	51.491	19.076	-2.509	54.000	32.416	AV

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

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

Site: AC1	Time: 2019/09/19 - 04:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	

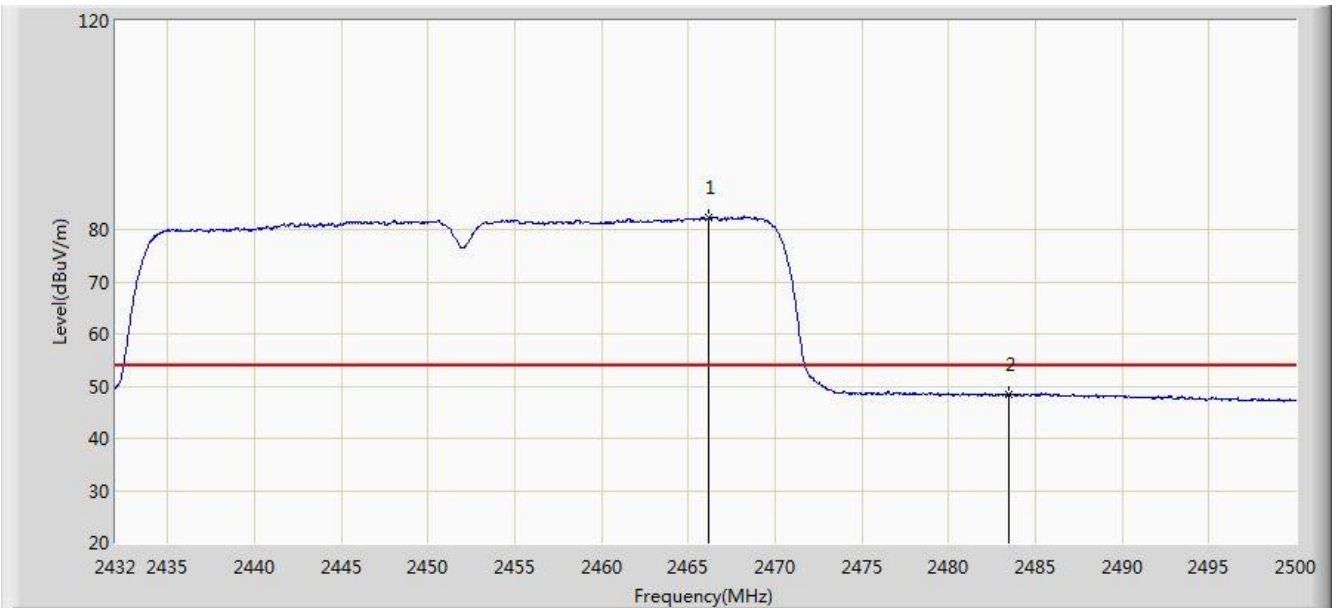


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.612	92.523	60.147	N/A	N/A	32.376	PK
2			2483.500	62.574	30.159	-11.426	74.000	32.416	PK
3			2485.618	65.450	33.030	-8.550	74.000	32.419	PK

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

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

Site: AC1	Time: 2019/09/19 - 04:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Bacon Dong
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Wearable & Handheld Translation Device	Power: By Battery
Test Mode: Transmit by 802.11n-HT40 at channel 2452MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2466.204	82.273	49.898	N/A	N/A	32.375	AV
2			2483.500	48.457	16.042	-5.543	54.000	32.416	AV

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

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

7.8. AC Conducted Emissions Measurement

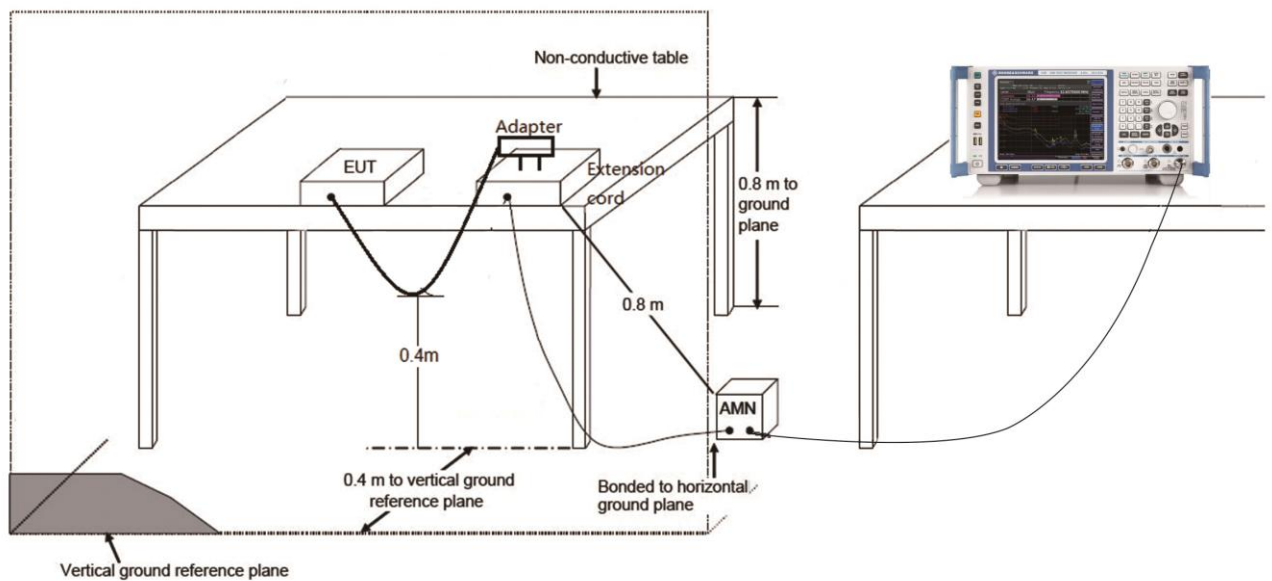
7.8.1. Test Limit

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

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

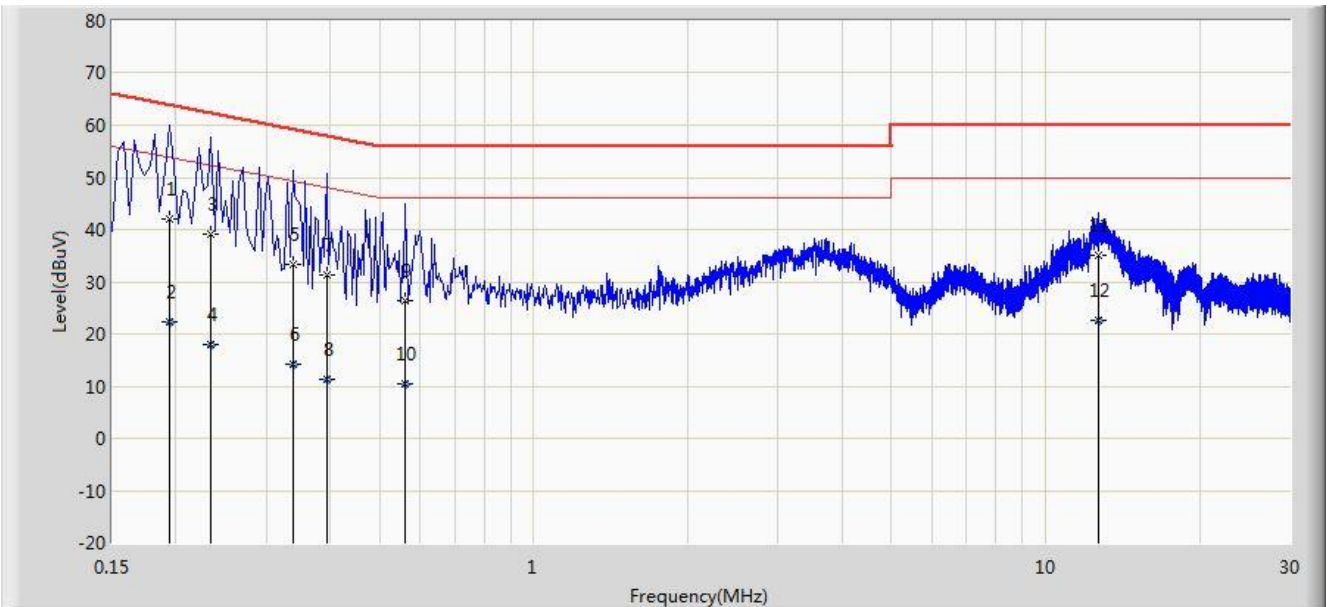
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

7.8.2. Test Setup



7.8.3.Test Result

Site: SR2	Time: 2019/09/19 - 23:02
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: Wearable & Handheld Translation Device	Power: AC 120V/60Hz
Test Mode 1	

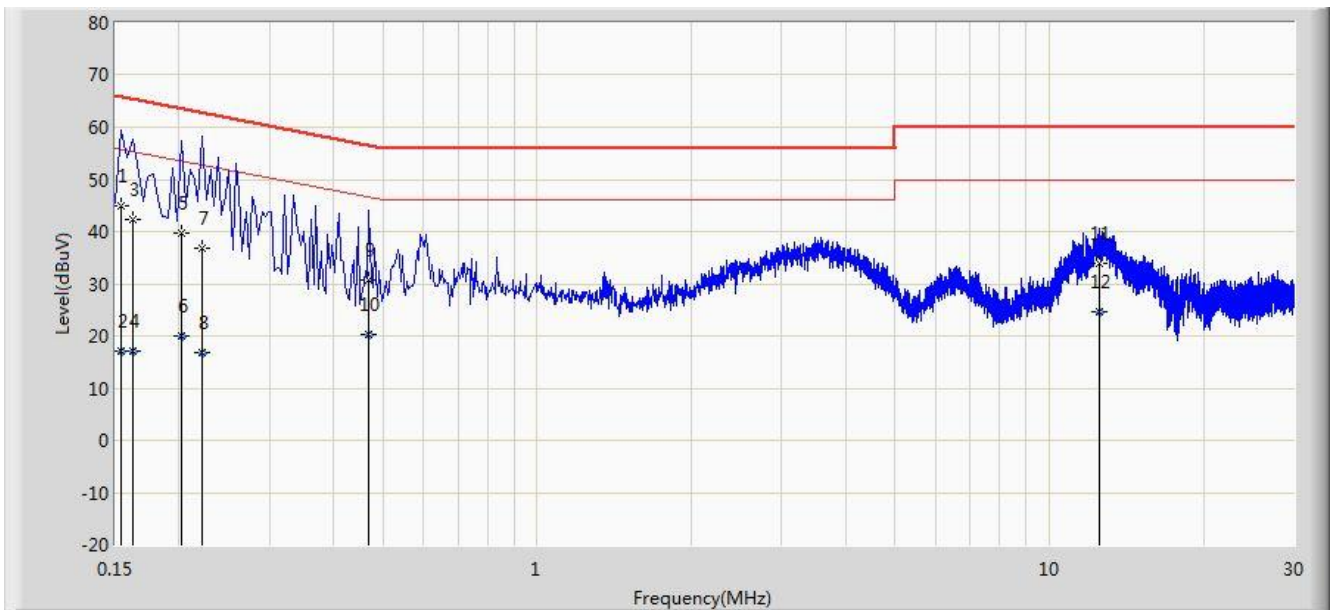


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.194	42.089	32.033	-21.775	63.864	10.056	QP
2			0.194	22.204	12.148	-31.660	53.864	10.056	AV
3			0.234	39.205	29.237	-23.102	62.307	9.967	QP
4			0.234	17.839	7.872	-34.467	52.307	9.967	AV
5			0.338	33.390	23.249	-25.863	59.252	10.140	QP
6			0.338	14.145	4.005	-35.107	49.252	10.140	AV
7			0.394	31.386	21.224	-26.593	57.979	10.162	QP
8			0.394	11.232	1.070	-36.747	47.979	10.162	AV
9			0.562	26.386	16.149	-29.614	56.000	10.237	QP
10			0.562	10.574	0.337	-35.426	46.000	10.237	AV
11			12.642	35.165	24.935	-24.835	60.000	10.230	QP
12			12.642	22.575	12.345	-27.425	50.000	10.230	AV

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

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

Site: SR2	Time: 2019/09/19 - 23:08
Limit: FCC_Part15.207_CE_AC Power	Engineer: Liz Yuan
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: Wearable & Handheld Translation Device	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		*	0.154	44.845	34.135	-20.937	65.781	10.710	QP
2			0.154	17.216	6.506	-38.566	55.781	10.710	AV
3			0.162	42.242	32.165	-23.119	65.361	10.077	QP
4			0.162	17.194	7.117	-38.167	55.361	10.077	AV
5			0.202	39.761	29.714	-23.767	63.528	10.047	QP
6			0.202	20.010	9.963	-33.518	53.528	10.047	AV
7			0.222	36.695	26.681	-26.048	62.744	10.015	QP
8			0.222	16.888	6.874	-35.855	52.744	10.015	AV
9			0.470	30.666	20.410	-25.848	56.514	10.256	QP
10			0.470	20.221	9.964	-26.293	46.514	10.256	AV
11			12.550	33.780	23.528	-26.220	60.000	10.252	QP
12			12.550	24.530	14.278	-25.470	50.000	10.252	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 unit is in compliance with FCC rules and ISED rules.

The End

Appendix A - Test Setup Photograph

Refer to "1908RSU048-UT" file.

Appendix B - EUT Photograph

Refer to "1908RSU048-UE" file.