

## 5.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 5.6.1 Test Limit

FCC according to §15.247(d), §15.209 and §15.205,

In any 100 kHz bandwidth outside the authorized frequency band, all harmonic and spurious must be least 20 dB below the highest emission level with the authorized frequency band. Radiation emission which fall in the restricted bands must also follow the FCC section 15.209 as below limit in table.

#### Below 30 MHz

Frequency	Field Strength (microvolts/m)	Magnetic H-Field (microamperes/m)	Measurement Distance (metres)
9-490 kHz	2,400/F (F in kHz)	2,400/F (F in kHz)	300
490-1,705 kHz	24,000/F (F in kHz)	24,000/F (F in kHz)	30
1.705-30 MHz	30	N/A	30

#### Above 30 MHz

Frequency	Field Strength (microvolts/m)	Measurement Distance (metres)
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

**Remark:**

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

## 5.6.2 Test Procedure

Test method Refer as ANSI C63.10:2013.

1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10: 2013, and the EUT set in a continuous mode.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.

3. Span shall wide enough to full capture the emission measured. The SA from 9kHz to 26.5GHz set to the low, Mid and High channels with the EUT transmit.

Note: No emission found between lowest internal used/generated frequency to 30MHz (9KHz~30MHz)

Remark:

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

4. The SA setting following :

(1) Below 1G : RBW = 100kHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G :

(2.1) For Peak measurement : RBW = 1MHz, VBW  $\geq$  3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

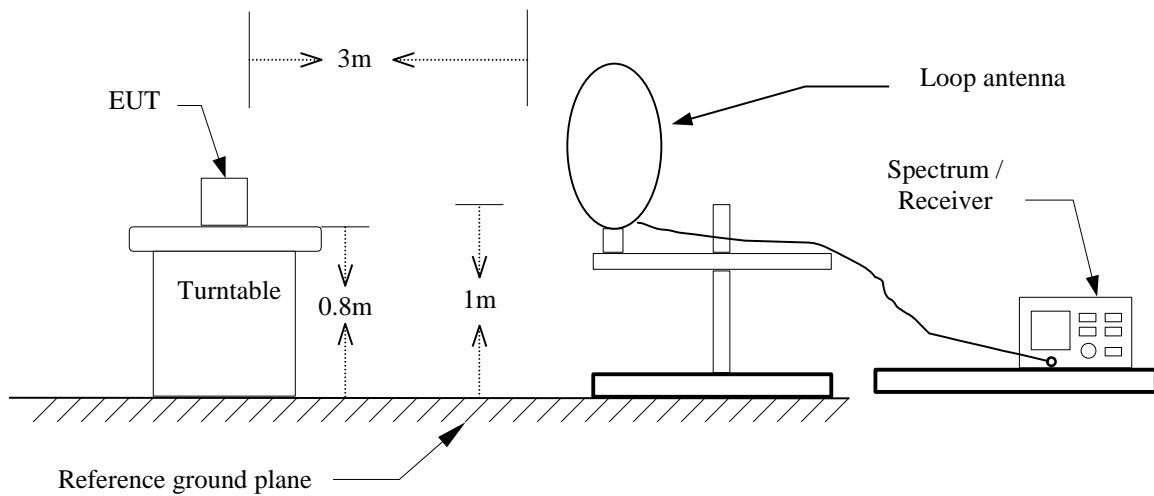
(2.2) For Average measurement : RBW = 1MHz, VBW

·If Duty Cycle  $\geq$  98%, VBW=10Hz.

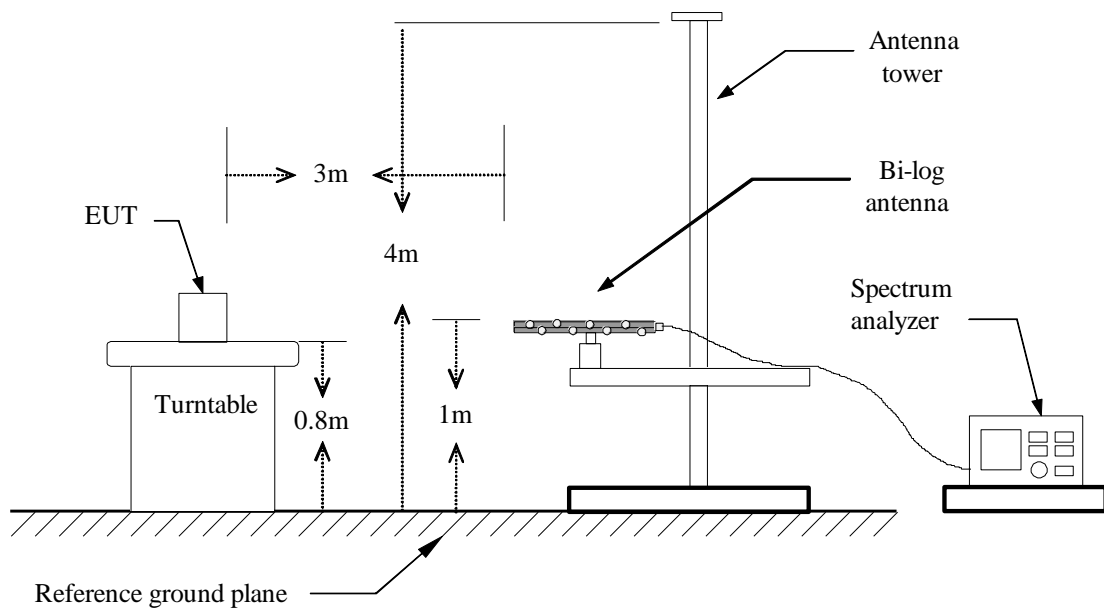
·If Duty Cycle < 98%, VBW=1/T.

## 5.6.3 Test Setup

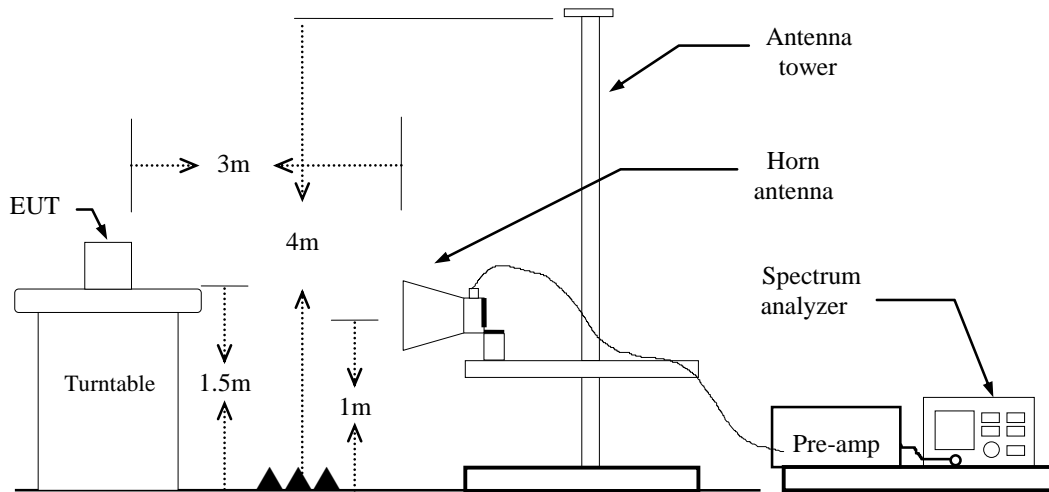
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



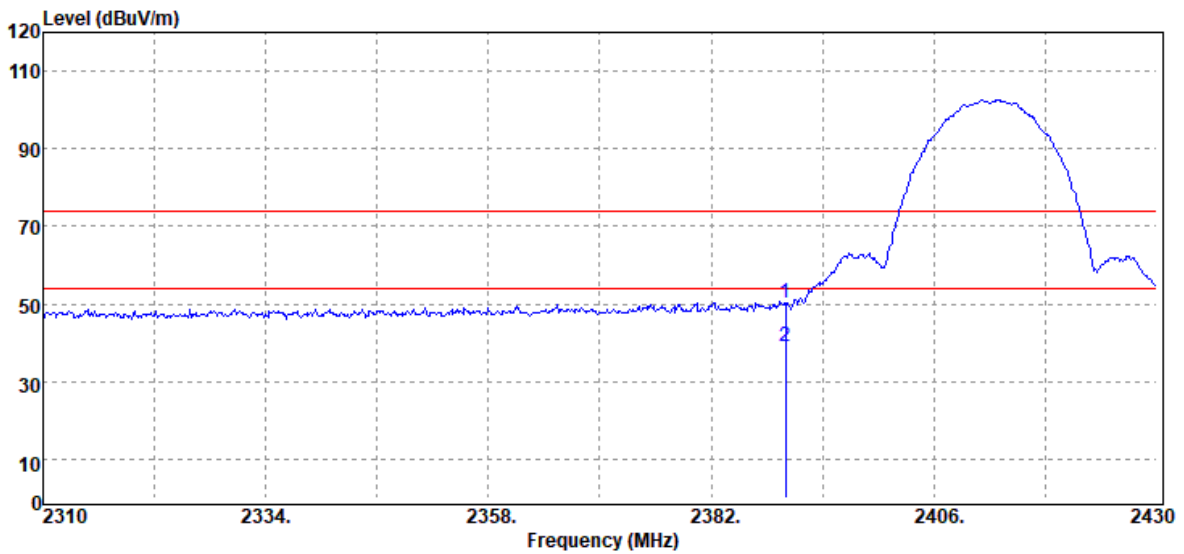
## Above 1 GHz



### 5.6.4 Test Result

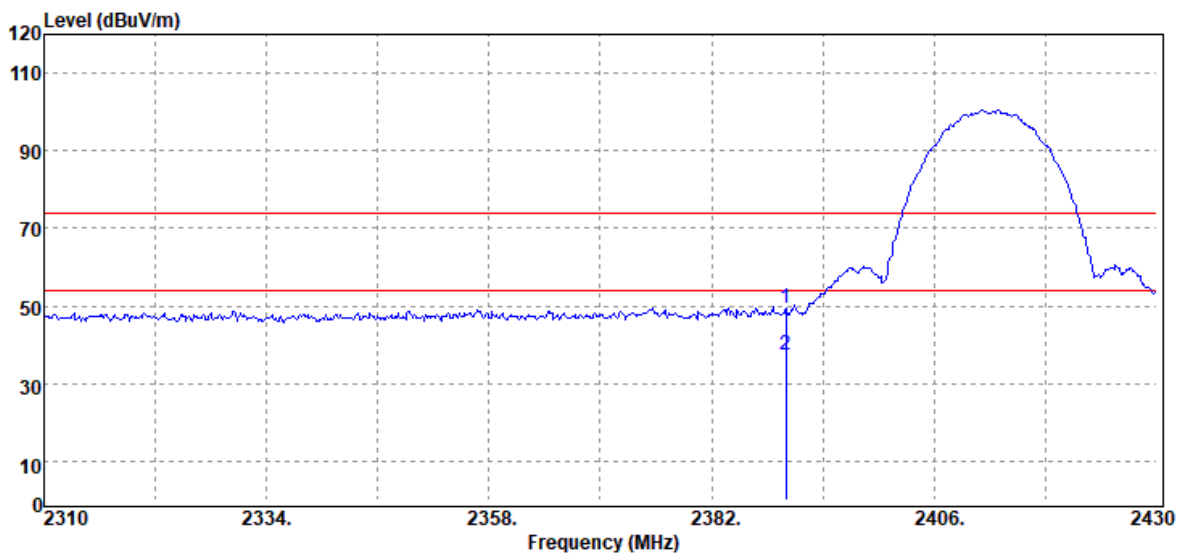
#### Band Edge Test Data

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	51.37	-1.00	50.37	74.00	-23.63
2390.00	Average	40.01	-1.00	39.01	54.00	-14.99

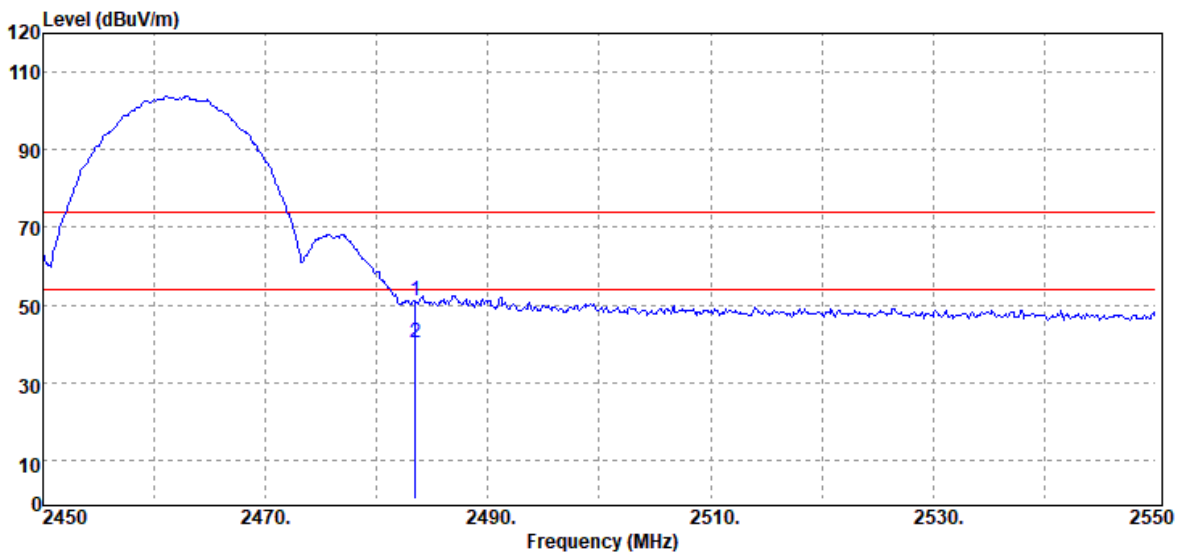
Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	50.21	-1.00	49.21	74.00	-24.79
2390.00	Average	38.35	-1.00	37.35	54.00	-16.65

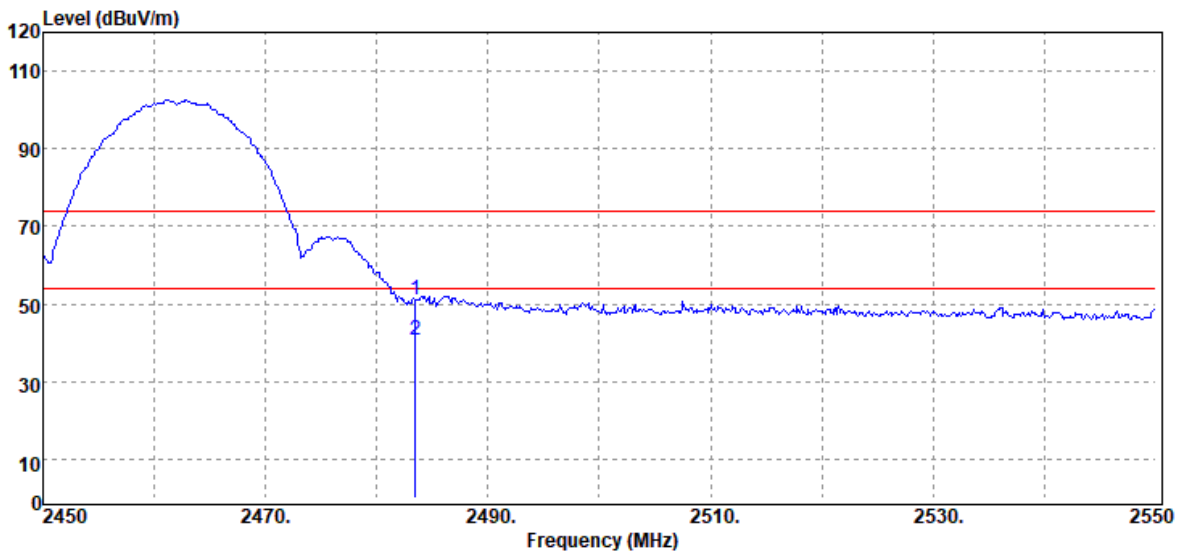


Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



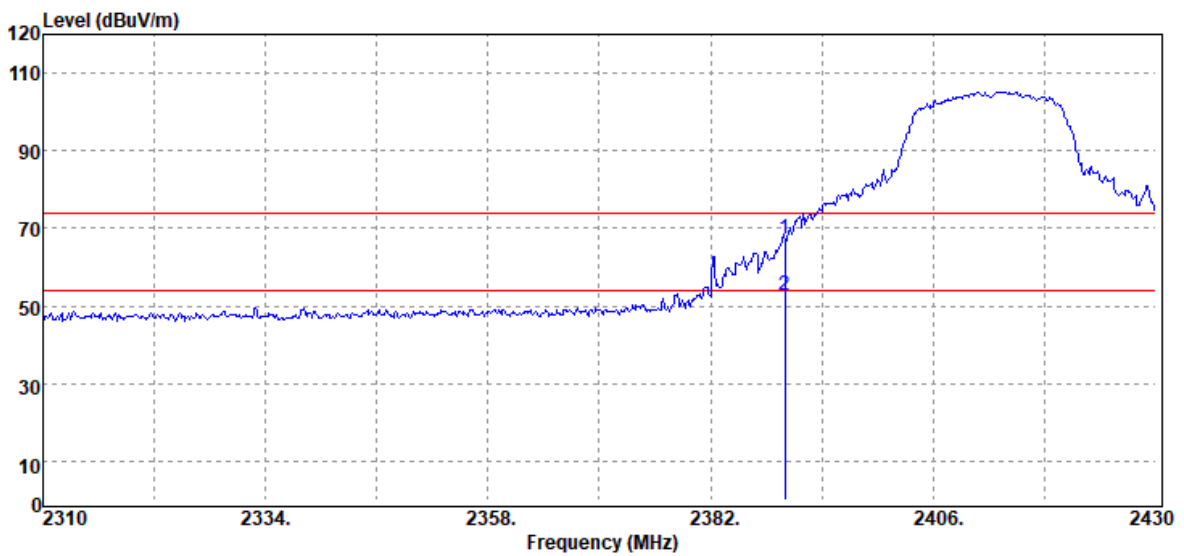
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	51.69	-0.66	51.03	74.00	-22.97
2483.50	Average	40.90	-0.66	40.24	54.00	-13.76

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



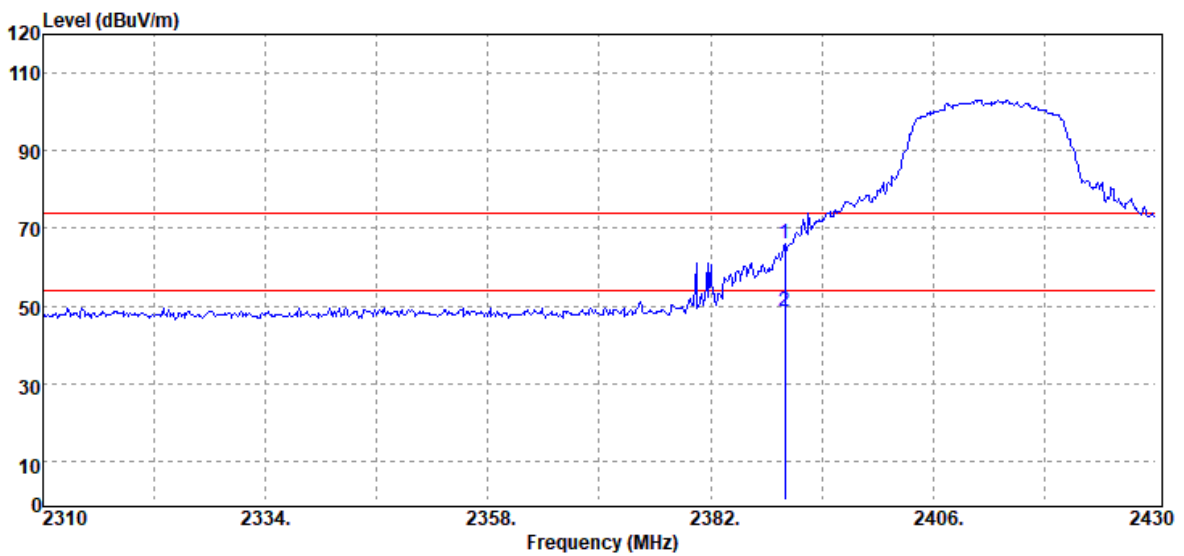
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	51.82	-0.66	51.16	74.00	-22.84
2483.50	Average	41.23	-0.66	40.57	54.00	-13.43

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



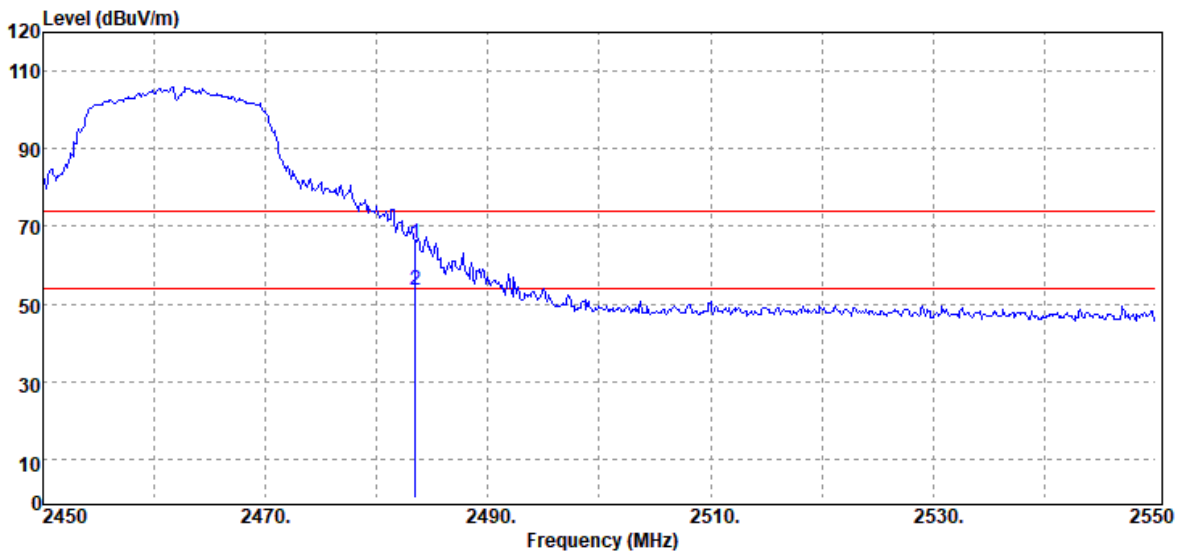
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	68.11	-1.00	67.11	74.00	-6.89
2390.00	Average	53.84	-1.00	52.84	54.00	-1.16

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



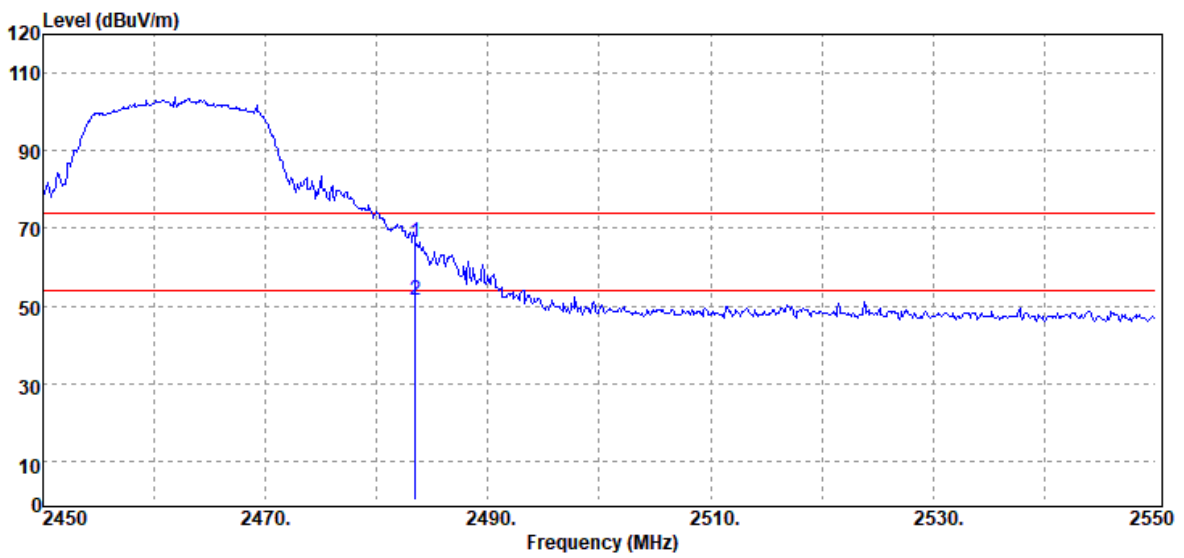
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	67.11	-1.00	66.11	74.00	-7.89
2390.00	Average	49.45	-1.00	48.45	54.00	-5.55

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



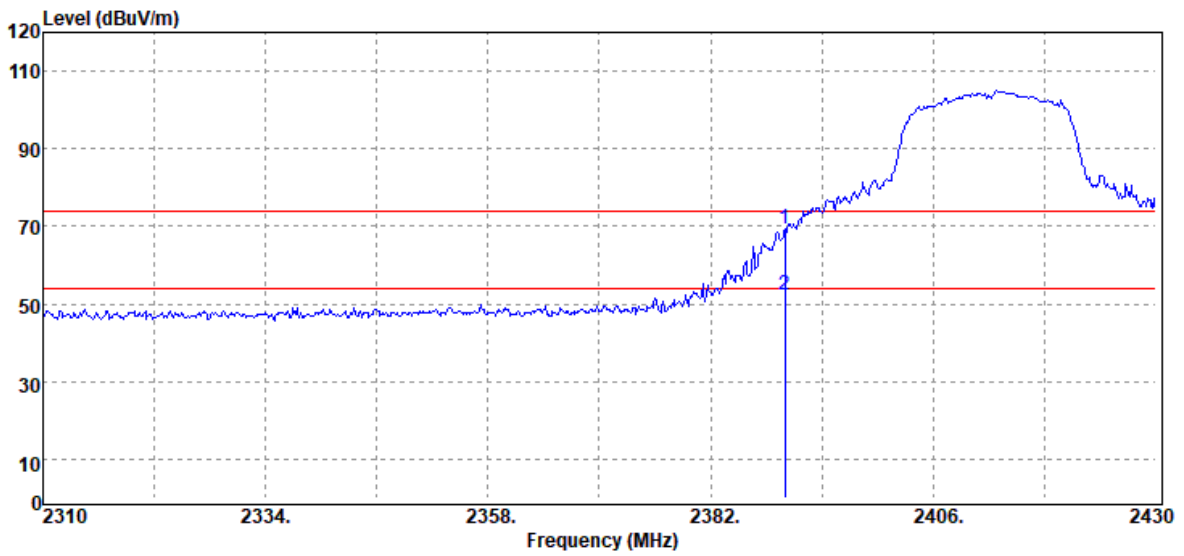
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2483.50	Peak	66.21	-0.66	65.55	74.00	-8.45
2483.50	Average	54.18	-0.66	53.52	54.00	-0.48

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



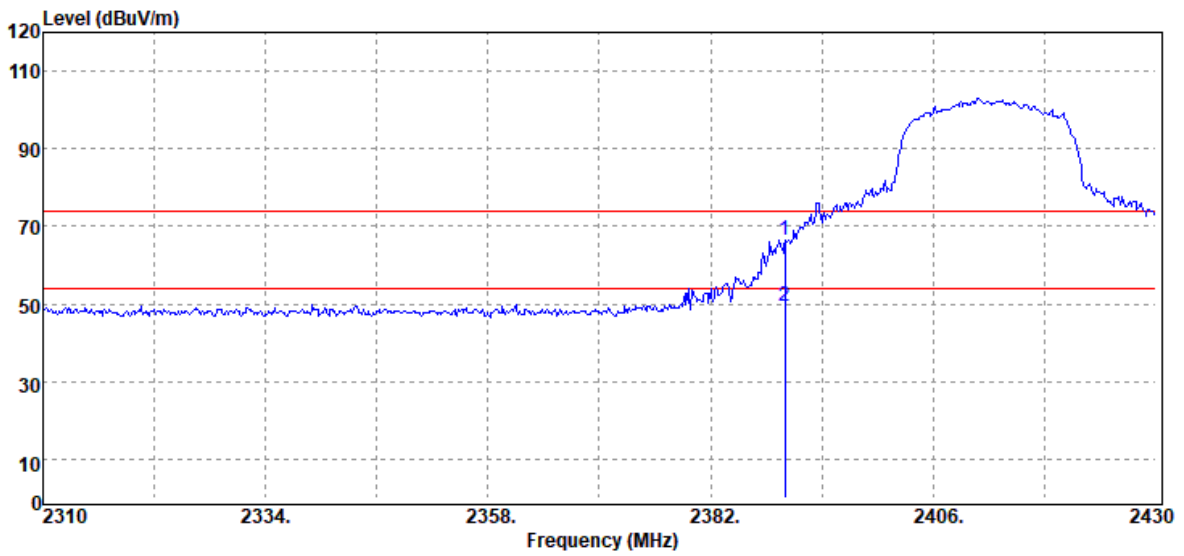
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	67.24	-0.66	66.58	74.00	-7.42
2483.50	Average	52.20	-0.66	51.54	54.00	-2.46

Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2390.00	Peak	70.16	-1.00	69.16	74.00	-4.84
2390.00	Average	53.37	-1.00	52.37	54.00	-1.63

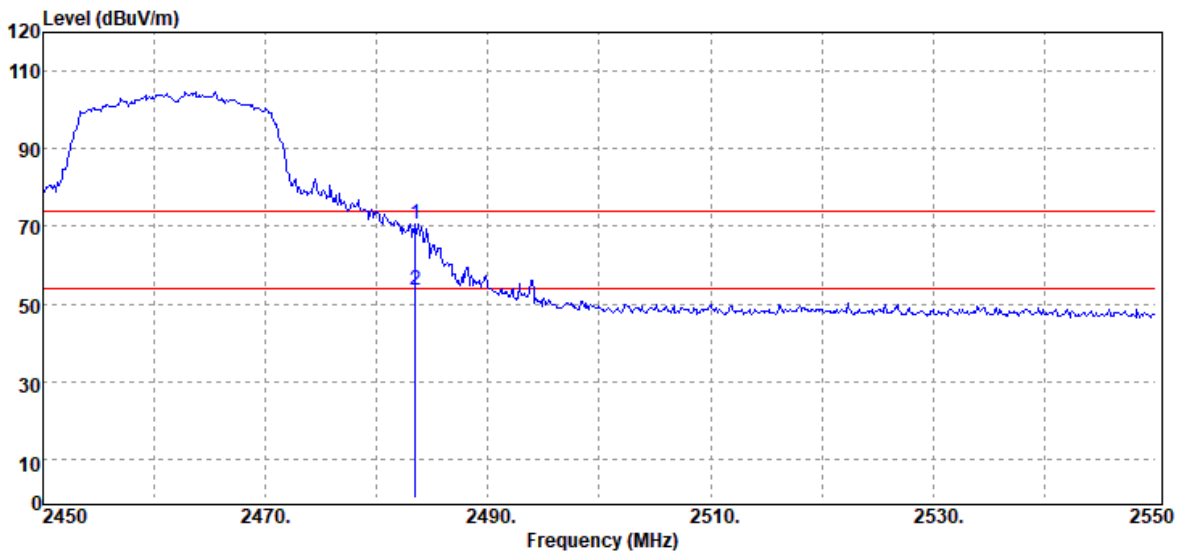
Test Mode	IEEE 802.11 n20 Low CH 2412MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	67.54	-1.00	66.54	74.00	-7.46
2390.00	Average	50.28	-1.00	49.28	54.00	-4.72

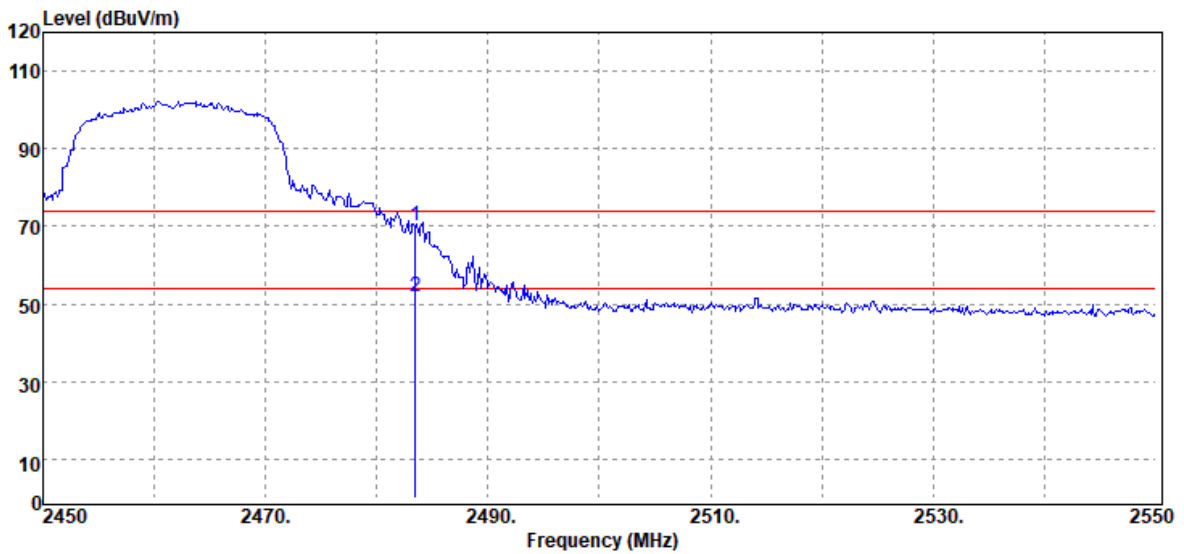


Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



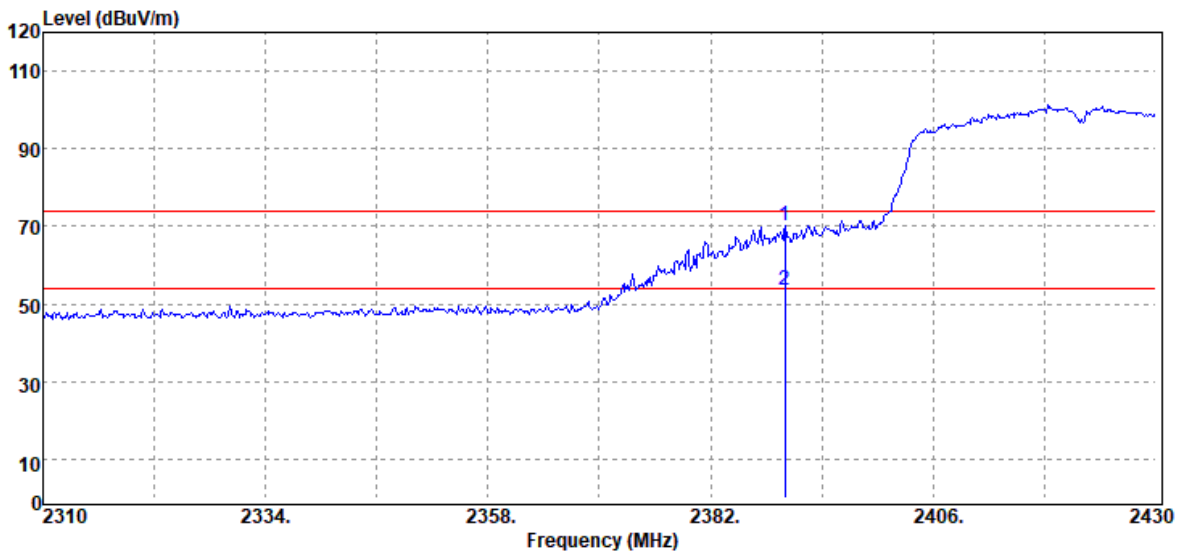
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	71.08	-0.66	70.42	74.00	-3.58
2483.50	Average	54.32	-0.66	53.66	54.00	-0.34

Test Mode	IEEE 802.11n20 High CH 2462MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



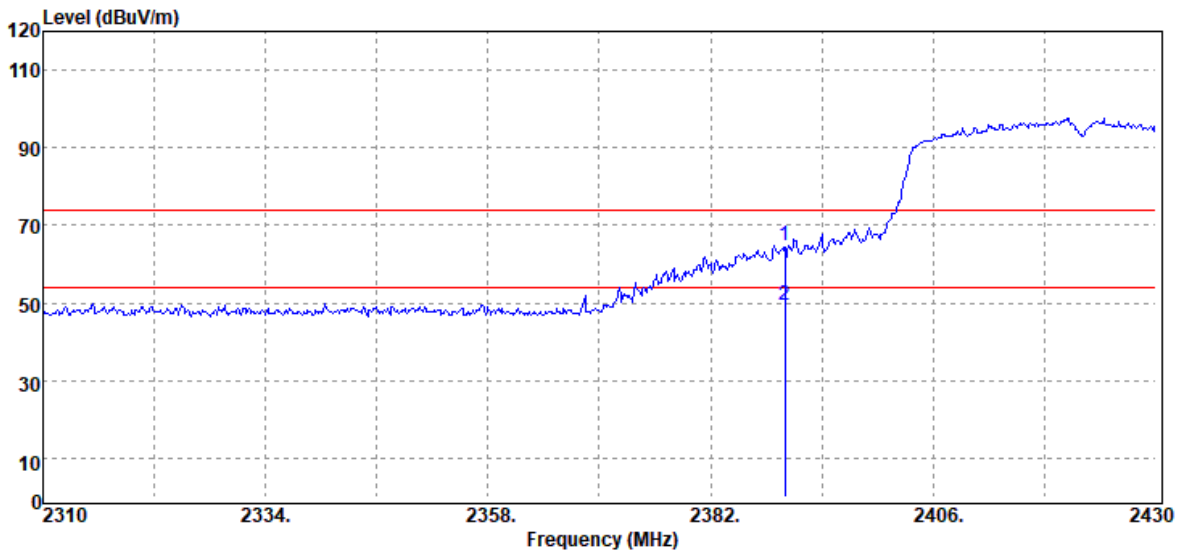
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2483.50	Peak	70.95	-0.66	70.29	74.00	-3.71
2483.50	Average	52.52	-0.66	51.86	54.00	-2.14

Test Mode	IEEE 802.11n HT40 Low CH 2422MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



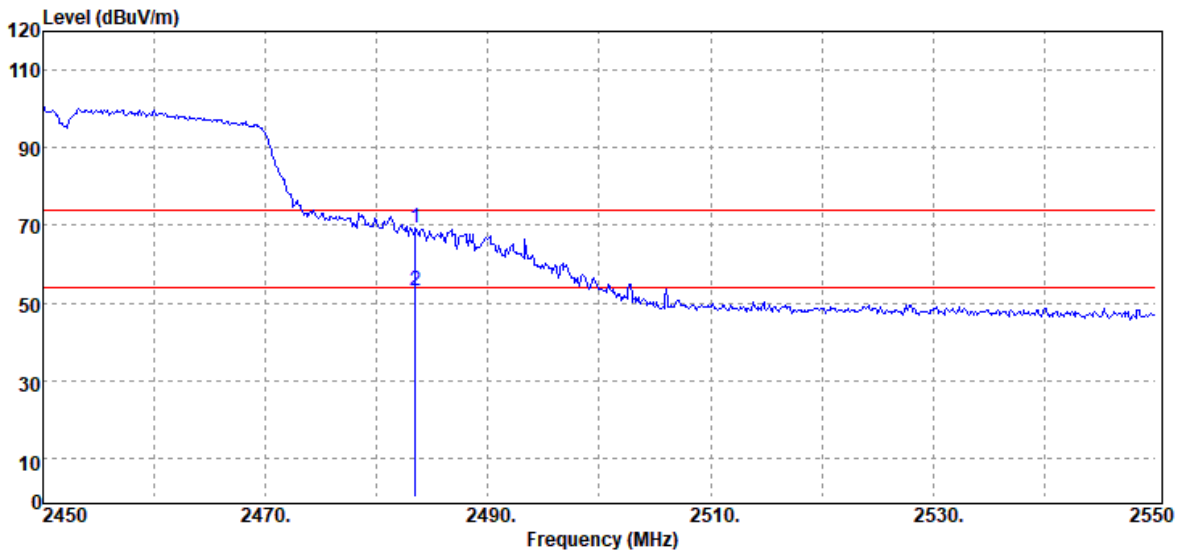
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2390.00	Peak	71.18	-1.00	70.18	74.00	-3.82
2390.00	Average	54.76	-1.00	53.76	54.00	-0.24

Test Mode	IEEE 802.11 n40 Low CH 2422MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



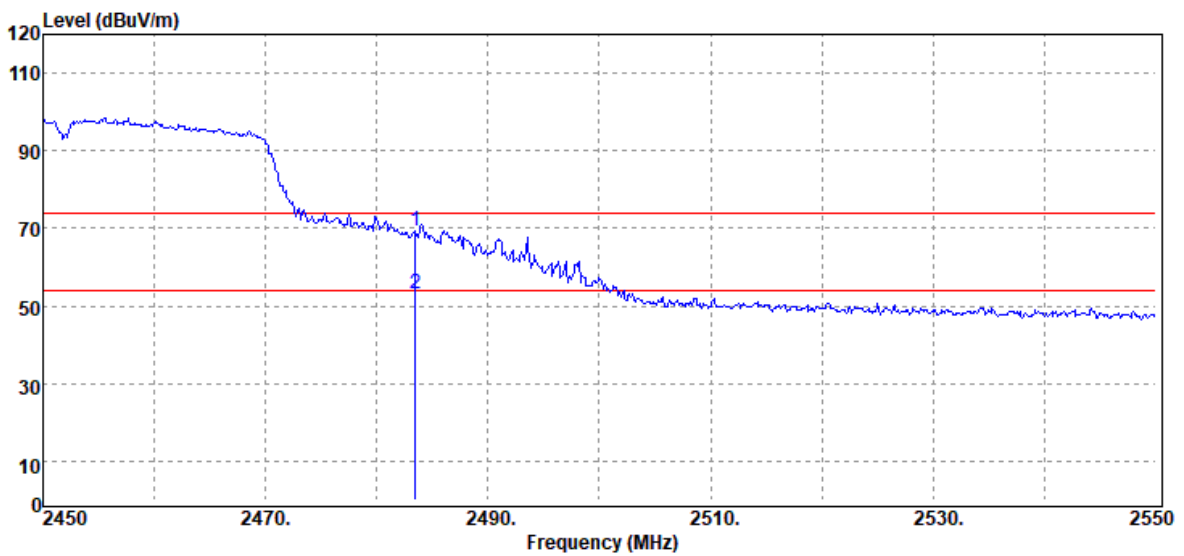
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2390.00	Peak	65.60	-1.00	64.60	74.00	-9.40
2390.00	Average	50.26	-1.00	49.26	54.00	-4.74

Test Mode	IEEE 802.11n HT40 High CH 2452MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	70.11	-0.66	69.45	74.00	-4.55
2483.50	Average	53.80	-0.66	53.14	54.00	-0.86

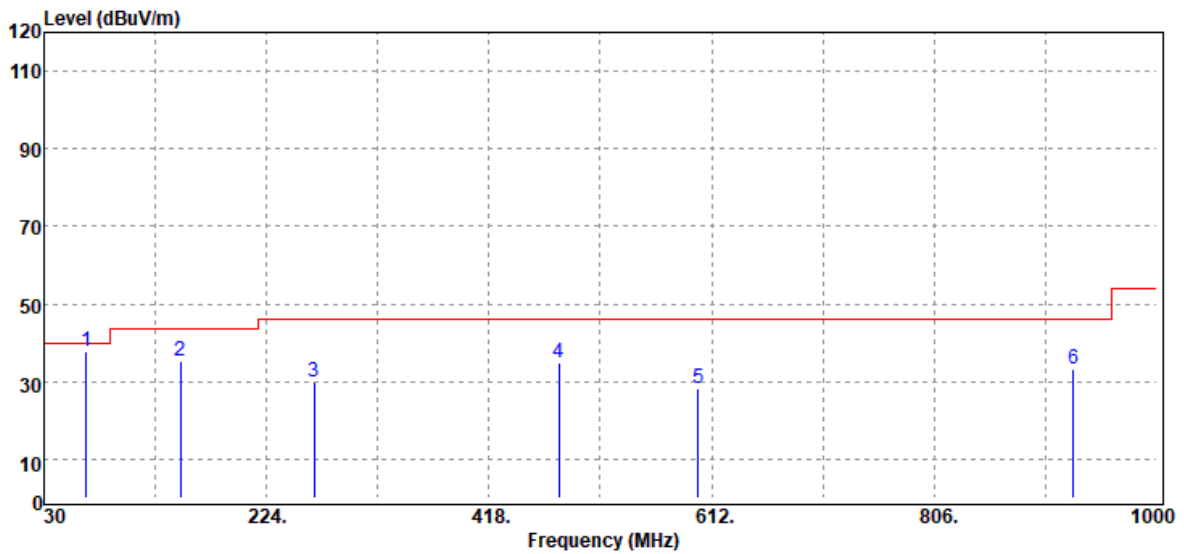
Test Mode	IEEE 802.11n40 High CH 2452MHz	Temp/Hum	23.9(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 4, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2483.50	Peak	70.01	-0.66	69.35	74.00	-4.65
2483.50	Average	53.82	-0.66	53.16	54.00	-0.84

### Below 1G Test Data

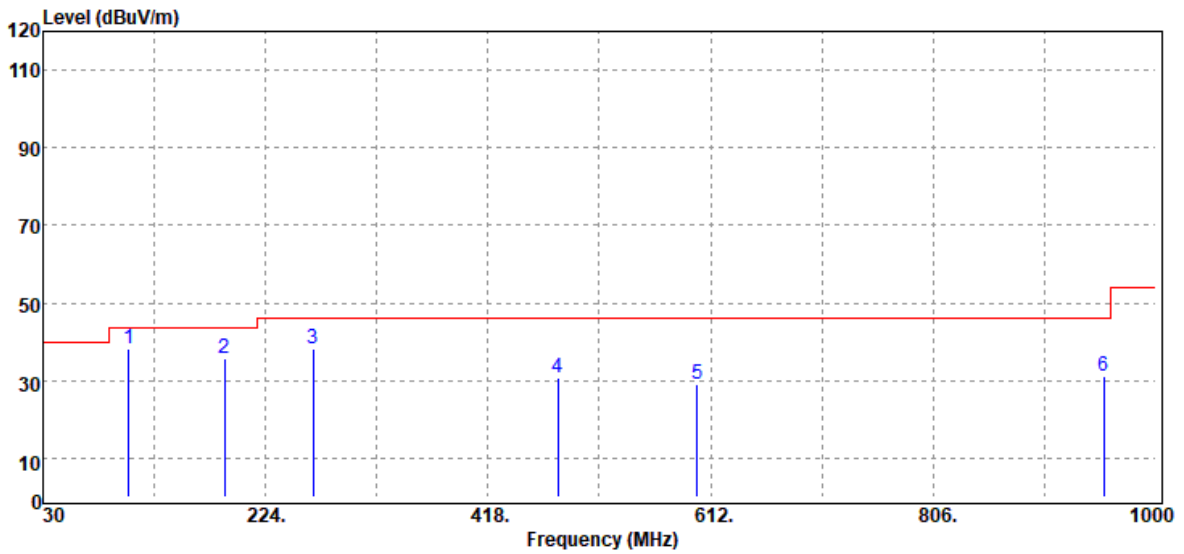
Test Mode	Mode 1	Temp/Hum	23.5(°C)/ 64%RH
Test Item	30MHz-1GHz	Test Date	July 29, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
66.86	Peak	53.24	-15.43	37.81	40.00	-2.19
149.31	Peak	45.64	-10.40	35.24	43.50	-8.26
265.71	Peak	39.37	-9.33	30.04	46.00	-15.96
479.11	Peak	38.07	-3.39	34.68	46.00	-11.32
600.36	Peak	30.29	-1.85	28.44	46.00	-17.56
927.25	Peak	29.77	3.46	33.23	46.00	-12.77

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)

Test Mode	Mode 1	Temp/Hum	23.5(°C)/ 64%RH
Test Item	30MHz-1GHz	Test Date	July 29, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak	Test Voltage	



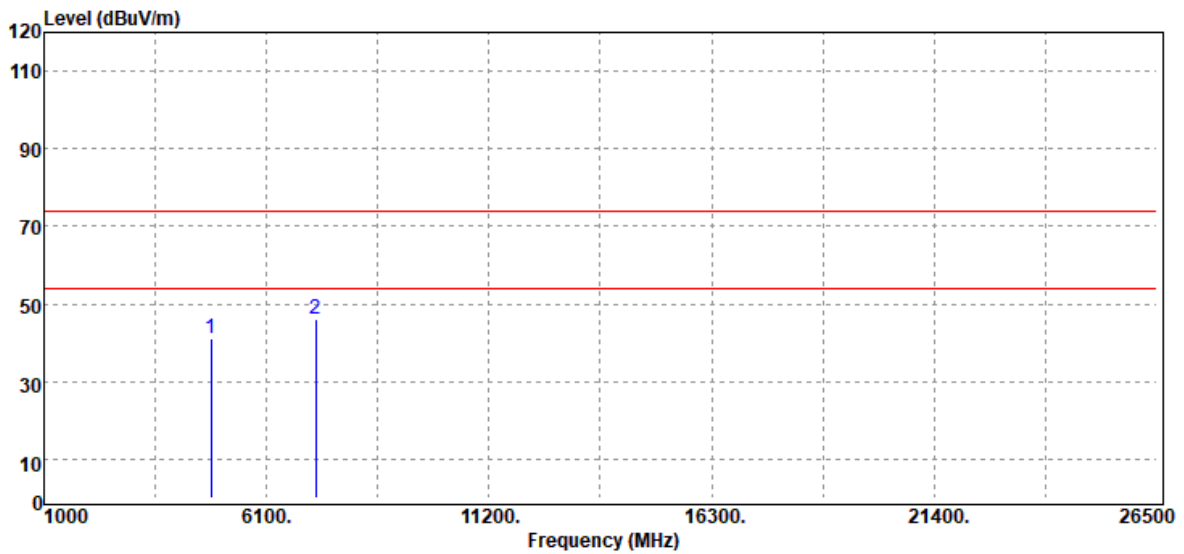
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
104.69	Peak	49.73	-11.41	38.32	43.50	-5.18
188.11	Peak	47.14	-11.24	35.90	43.50	-7.60
265.71	Peak	47.52	-9.33	38.19	46.00	-7.81
479.11	Peak	34.14	-3.39	30.75	46.00	-15.25
600.36	Peak	30.96	-1.85	29.11	46.00	-16.89
954.41	Peak	27.14	3.97	31.11	46.00	-14.89

Note: No emission found between lowest internal used/generated frequency to 30MHz(9KHz~30MHz)



**Above 1G Test Data**

Test Mode	IEEE 802.11b Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

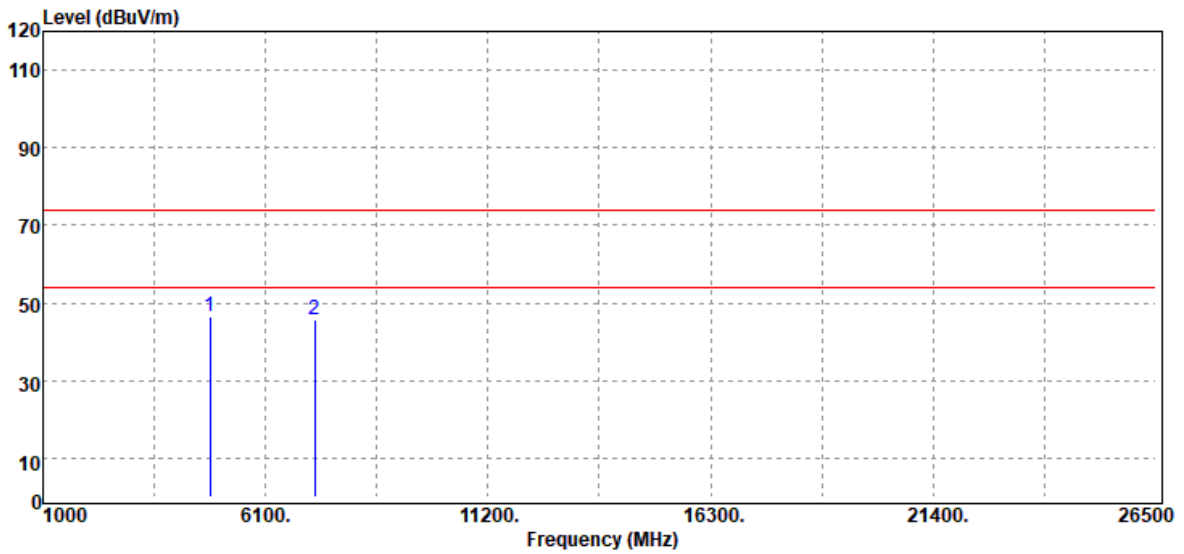


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4824.00	Peak	35.34	5.68	41.02	74.00	-32.98
7236.00	Peak	33.00	13.17	46.17	74.00	-27.83
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11b Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

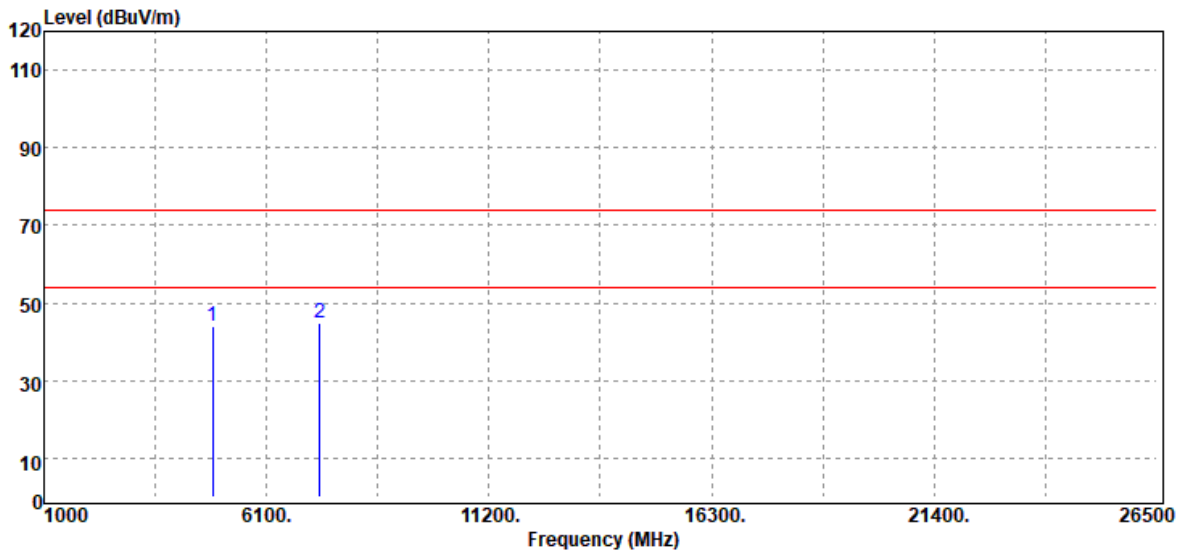


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	40.74	5.68	46.42	74.00	-27.58
7236.00	Peak	32.42	13.17	45.59	74.00	-28.41
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

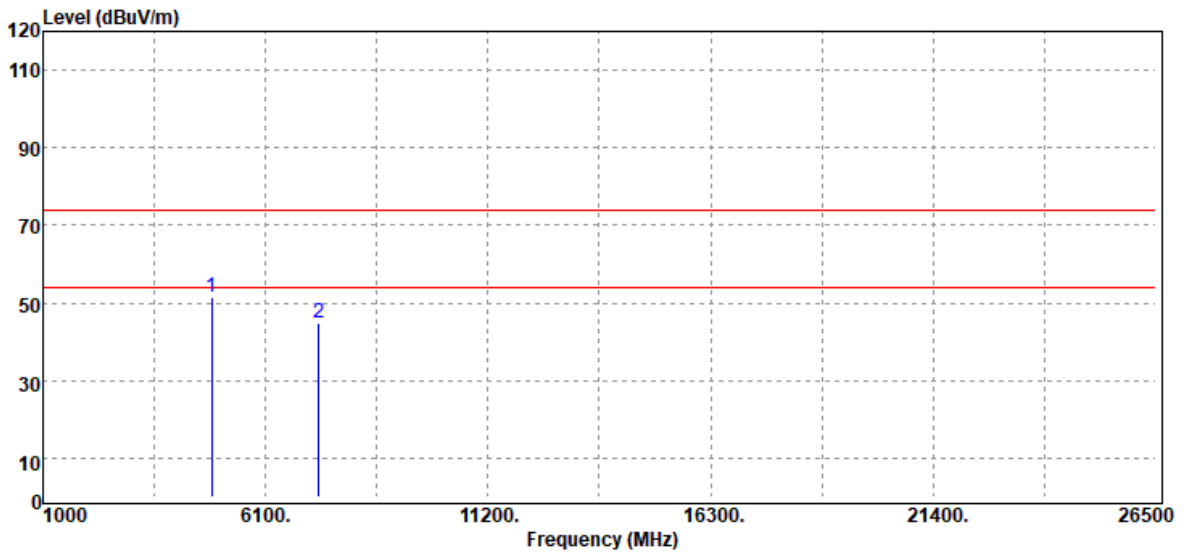


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	38.25	5.92	44.17	74.00	-29.83
7311.00	Peak	31.69	13.26	44.95	74.00	-29.05
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



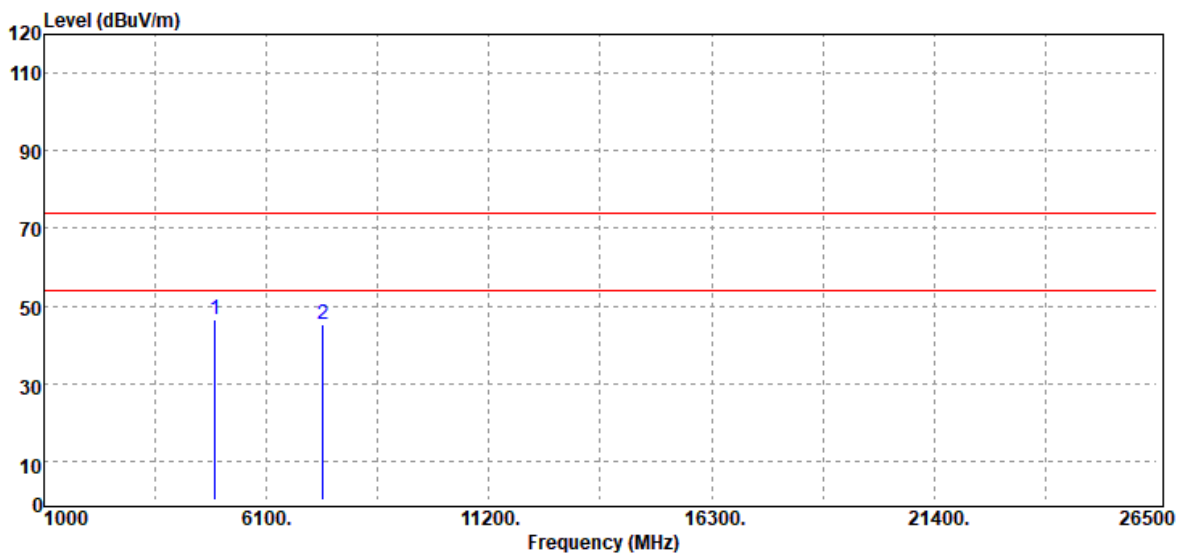
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	45.70	5.92	51.62	74.00	-22.38
7311.00	Peak	31.73	13.26	44.99	74.00	-29.01
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210716W04-RP2

Test Mode	IEEE 802.11b High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



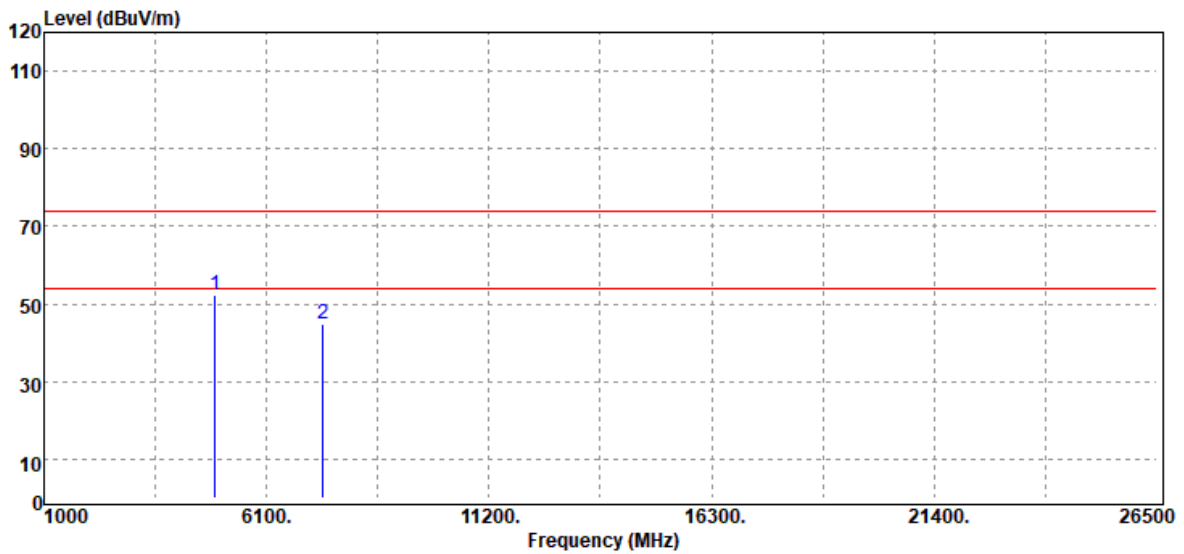
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	40.13	6.37	46.50	74.00	-27.50
7386.00	Peak	32.10	13.07	45.17	74.00	-28.83
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210716W04-RP2

Test Mode	IEEE 802.11b High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

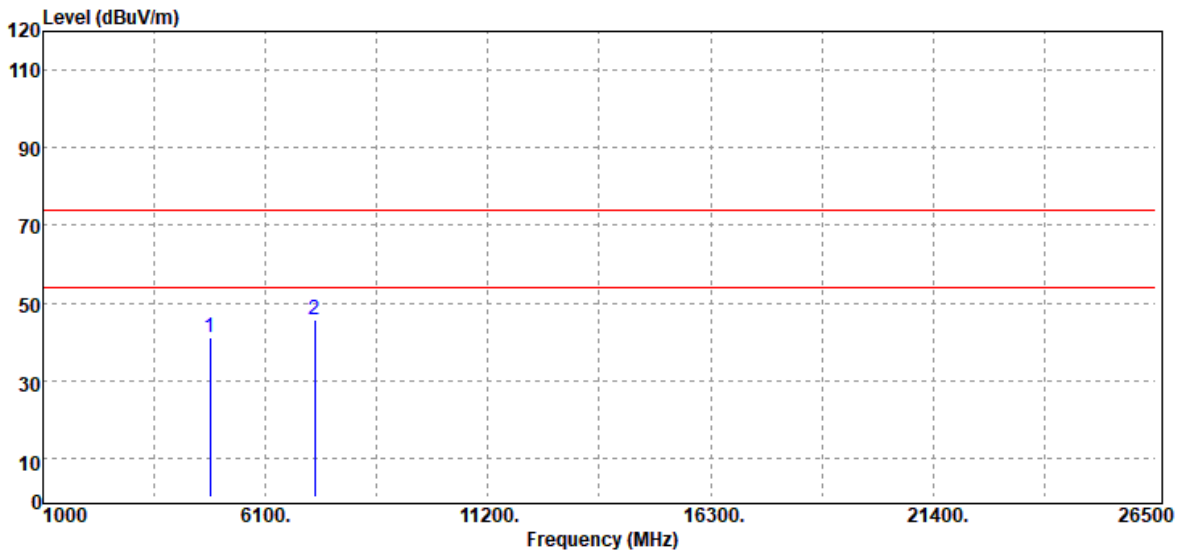


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4924.00	Peak	46.02	6.37	52.39	74.00	-21.61
7386.00	Peak	31.92	13.07	44.99	74.00	-29.01
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

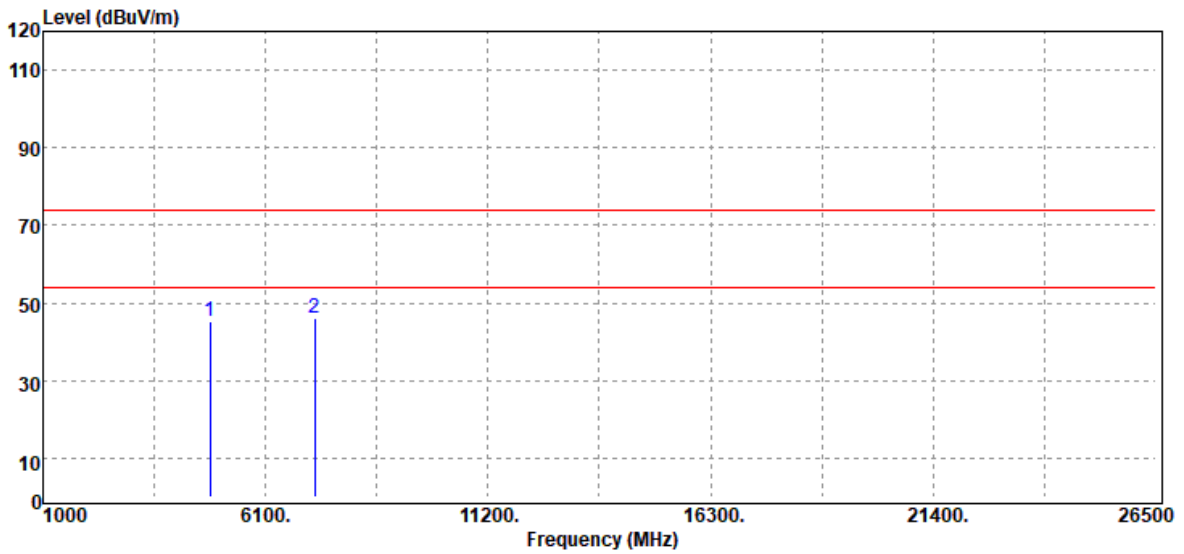


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4824.00	Peak	35.53	5.68	41.21	74.00	-32.79
7236.00	Peak	32.45	13.17	45.62	74.00	-28.38
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4824.00	Peak	39.75	5.68	45.43	74.00	-28.57
7236.00	Peak	32.86	13.17	46.03	74.00	-27.97
N/A						

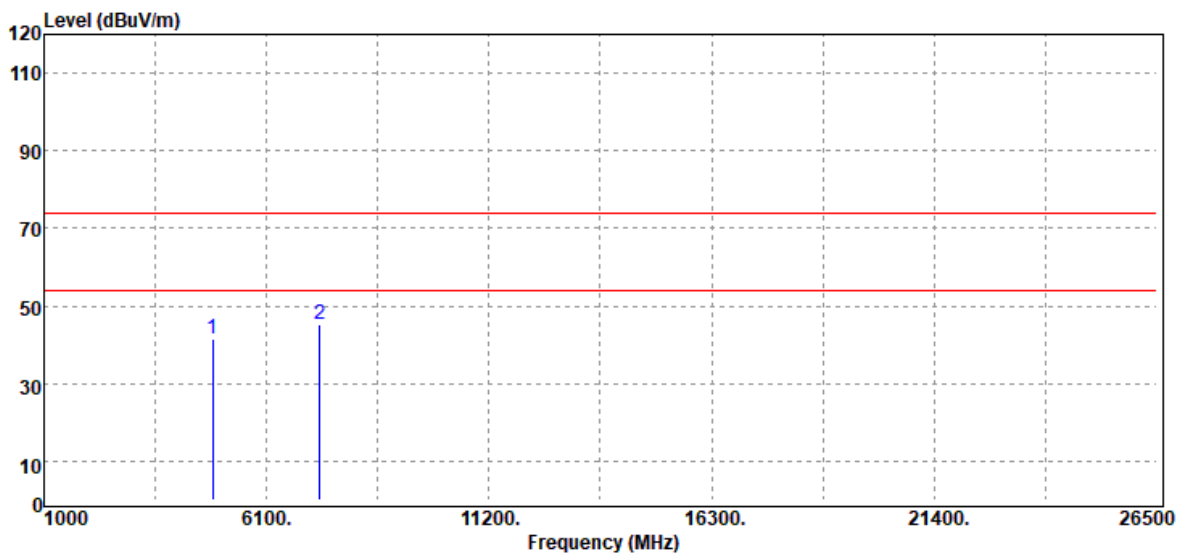
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Report No.: T210716W04-RP2

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

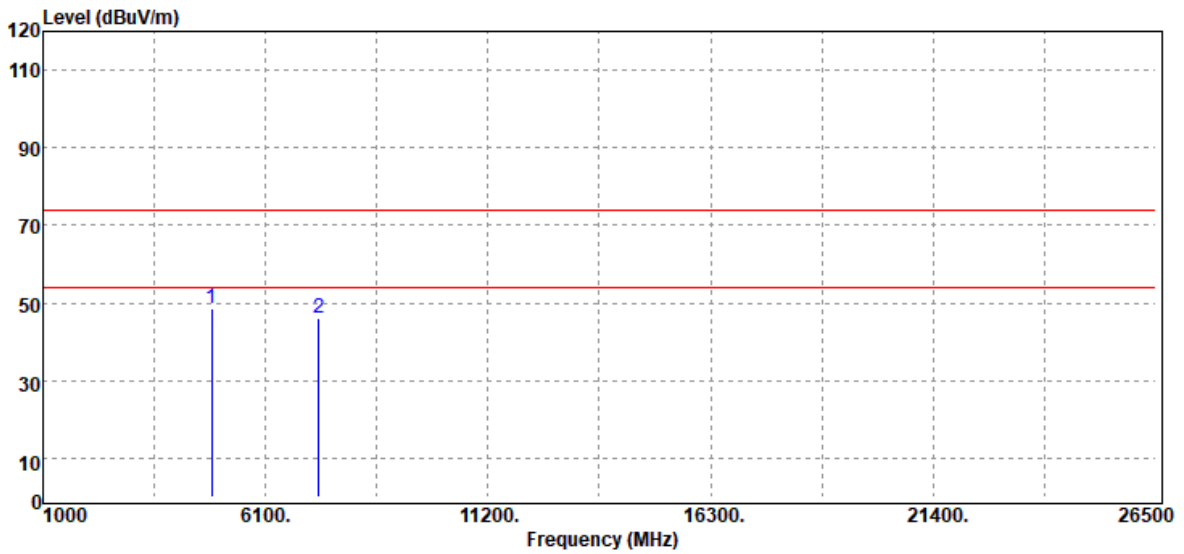


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4874.00	Peak	35.49	5.92	41.41	74.00	-32.59
7311.00	Peak	32.18	13.26	45.44	74.00	-28.56
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

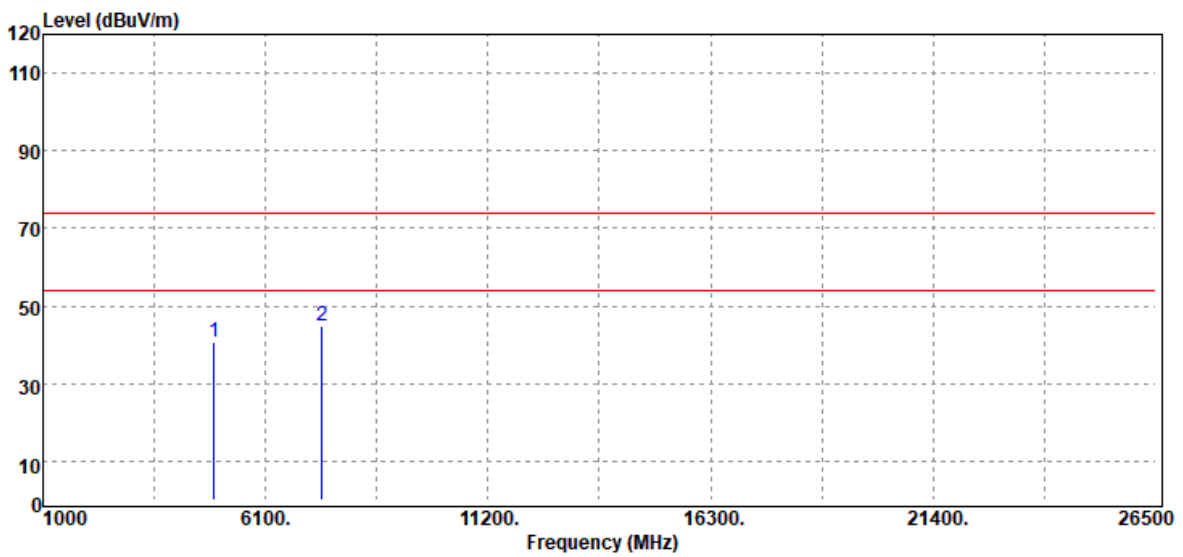


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	42.66	5.92	48.58	74.00	-25.42
7311.00	Peak	32.97	13.26	46.23	74.00	-27.77
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

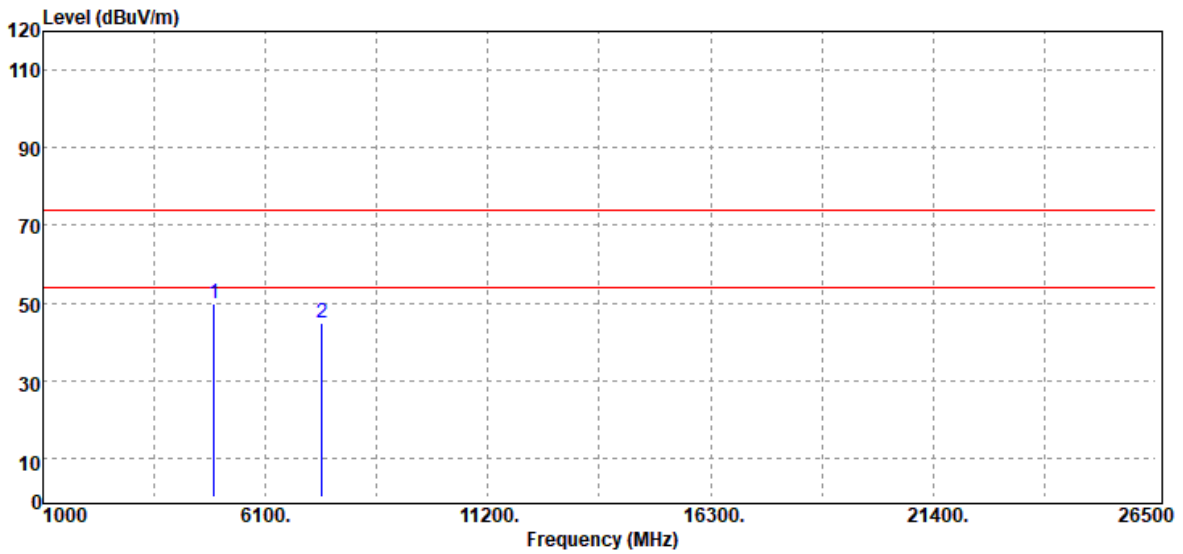


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	34.39	6.37	40.76	74.00	-33.24
7386.00	Peak	31.84	13.07	44.91	74.00	-29.09
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11g High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

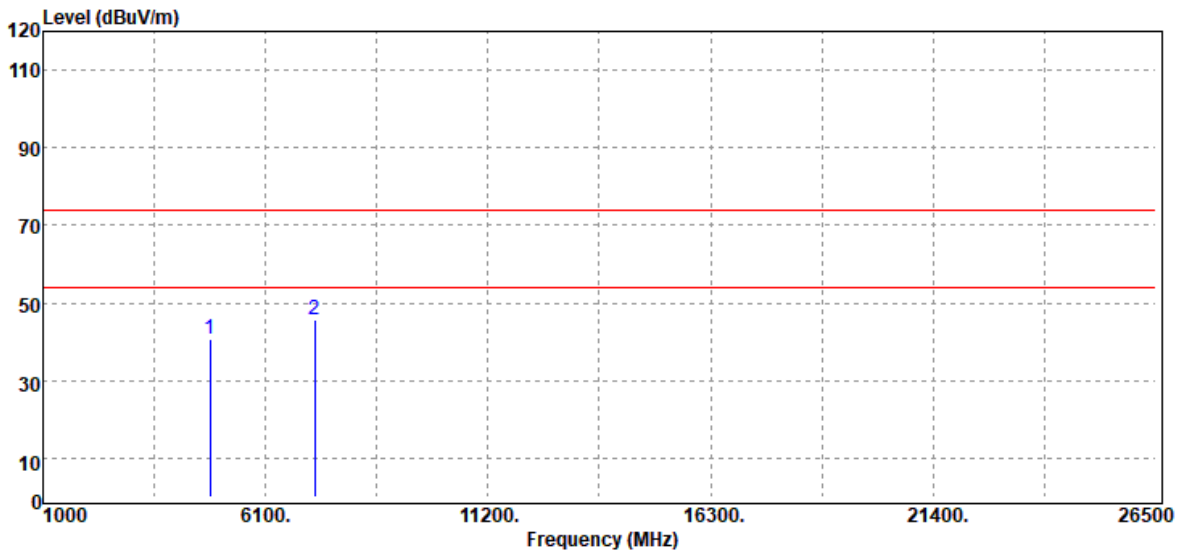


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
4924.00	Peak	43.26	6.37	49.63	74.00	-24.37
7386.00	Peak	31.64	13.07	44.71	74.00	-29.29
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

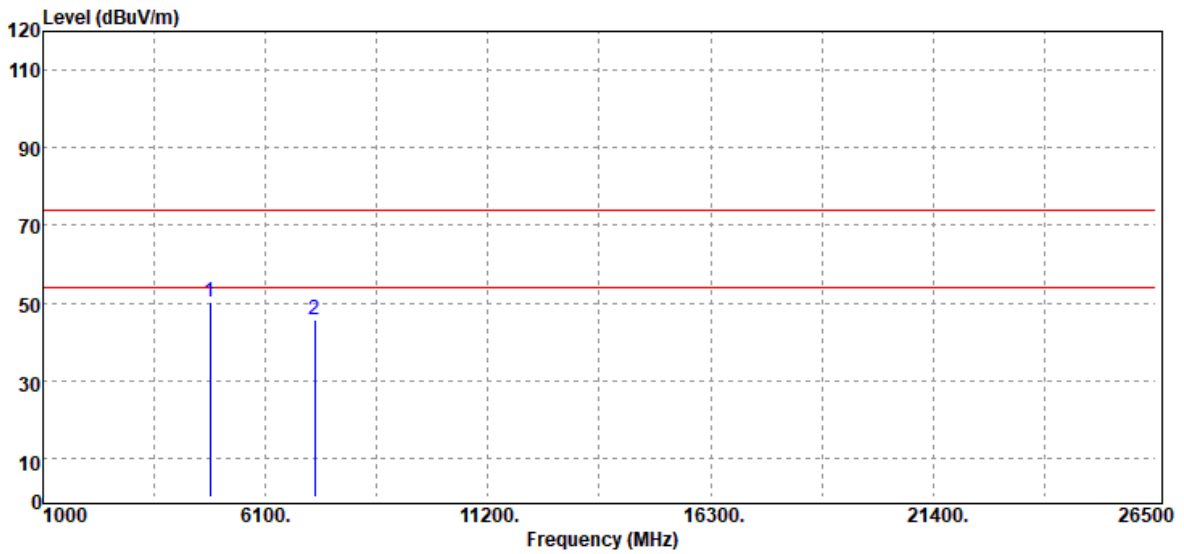


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	35.13	5.68	40.81	74.00	-33.19
7236.00	Peak	32.65	13.17	45.82	74.00	-28.18
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

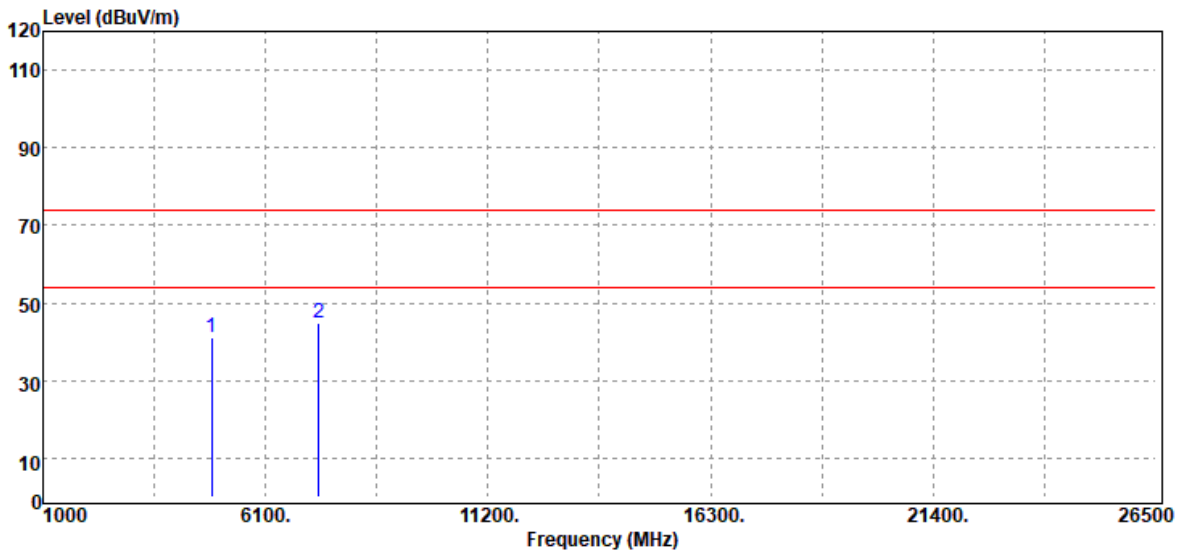


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.00	Peak	44.51	5.68	50.19	74.00	-23.81
7236.00	Peak	32.36	13.17	45.53	74.00	-28.47
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



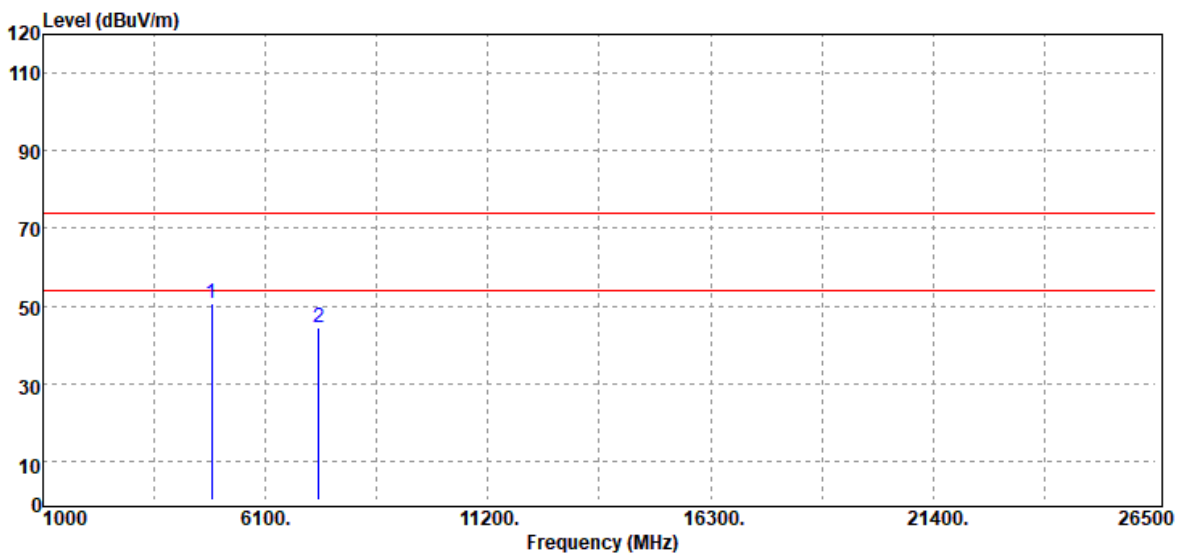
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	35.10	5.92	41.02	74.00	-32.98
7311.00	Peak	31.48	13.26	44.74	74.00	-29.26
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210716W04-RP2

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



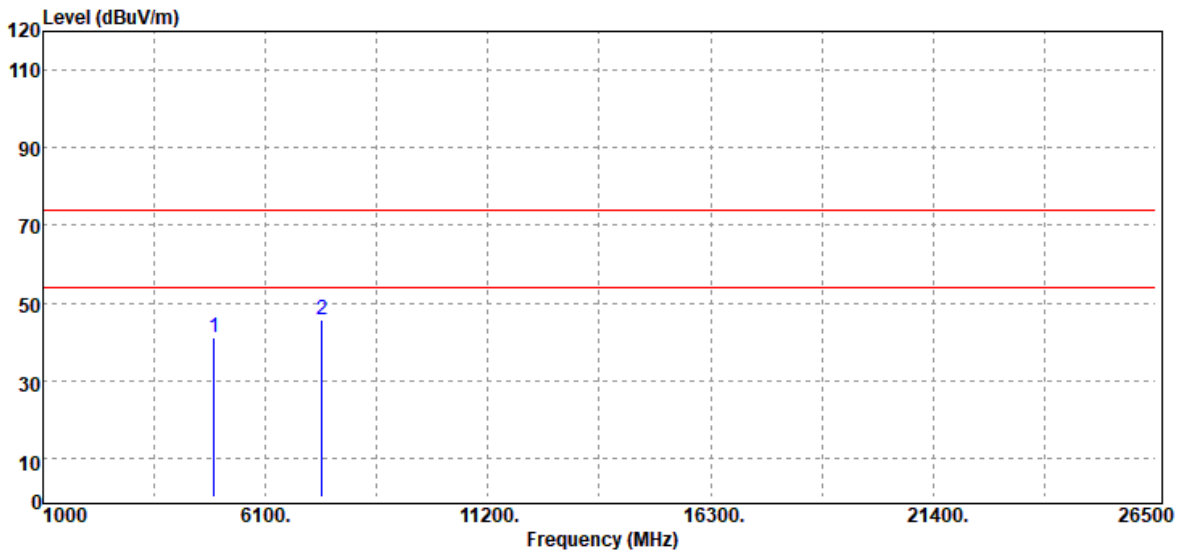
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	44.55	5.92	50.47	74.00	-23.53
7311.00	Peak	31.36	13.26	44.62	74.00	-29.38
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit



Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

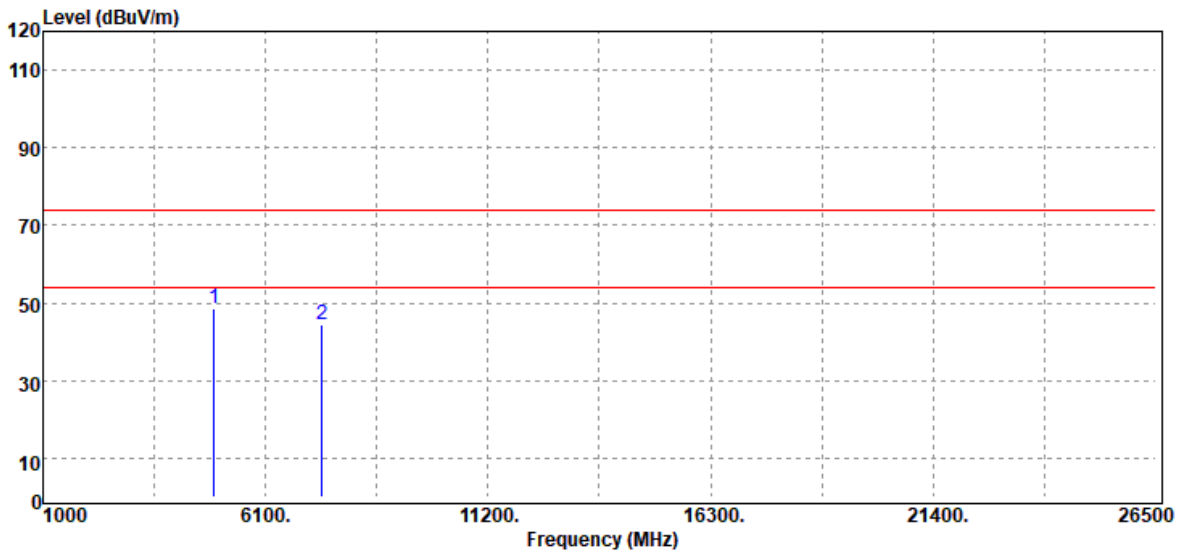


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	34.63	6.37	41.00	74.00	-33.00
7386.00	Peak	32.43	13.07	45.50	74.00	-28.50
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

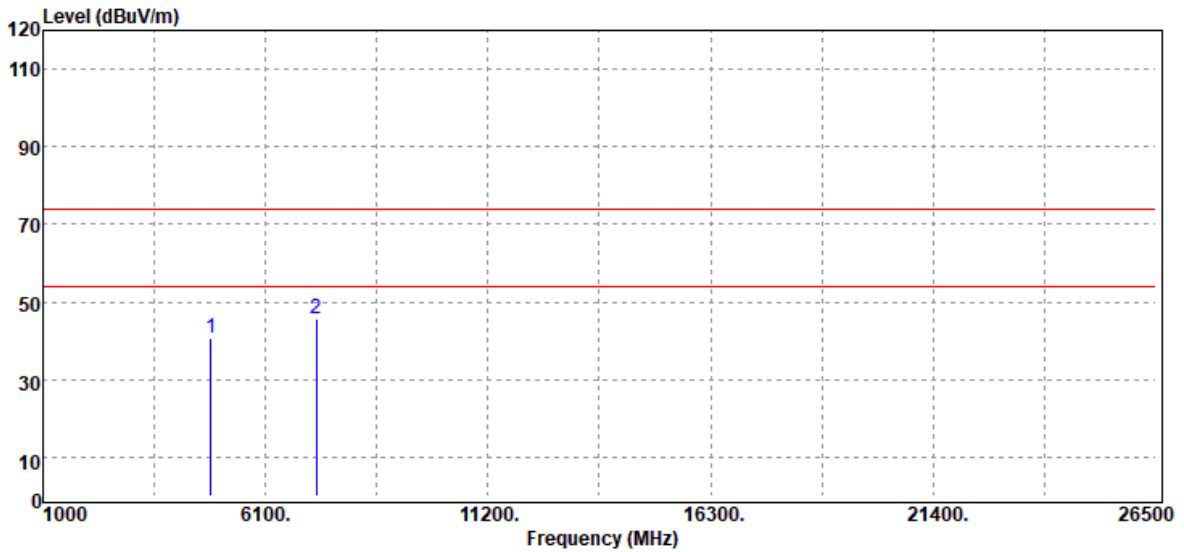


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.00	Peak	42.41	6.37	48.78	74.00	-25.22
7386.00	Peak	31.48	13.07	44.55	74.00	-29.45
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

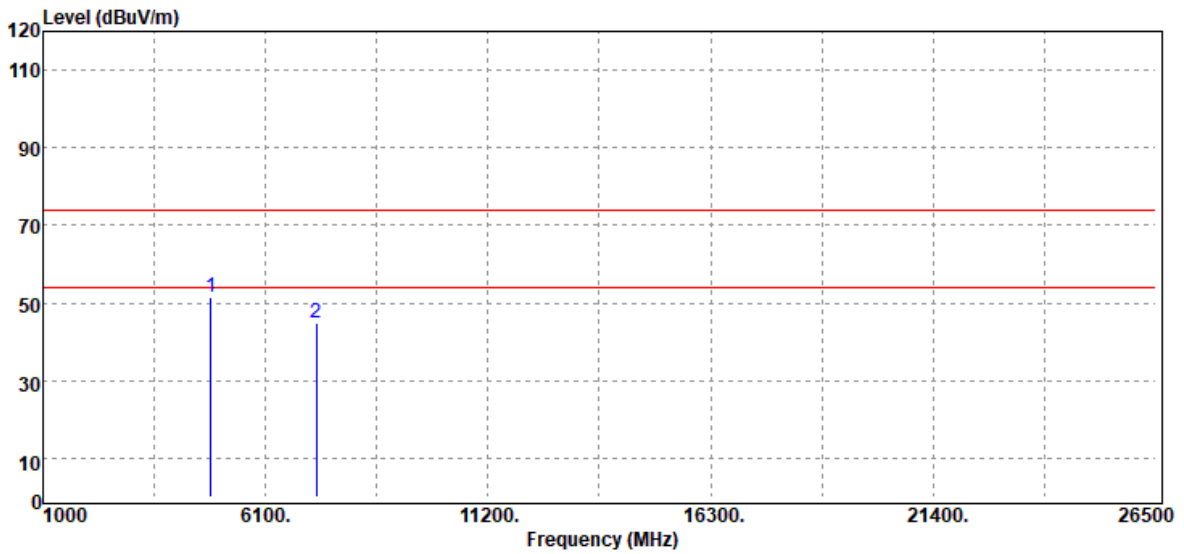


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4844.00	Peak	35.08	5.73	40.81	74.00	-33.19
7266.00	Peak	32.65	13.21	45.86	74.00	-28.14
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

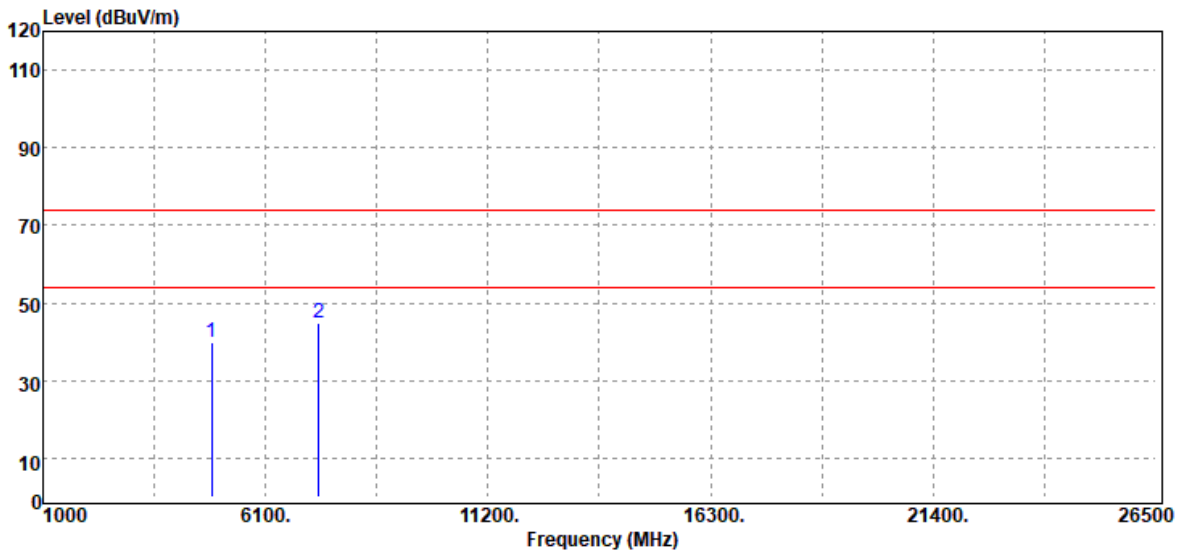


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4844.00	Peak	45.70	5.73	51.43	74.00	-22.57
7266.00	Peak	31.64	13.21	44.85	74.00	-29.15
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		

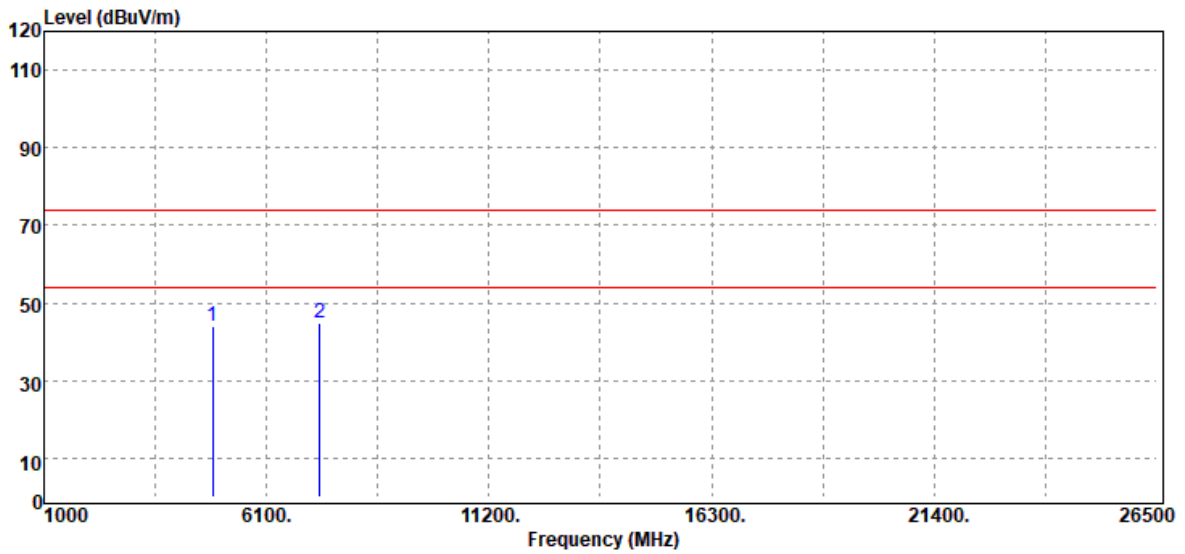


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	33.92	5.92	39.84	74.00	-34.16
7311.00	Peak	31.75	13.26	45.01	74.00	-28.99
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

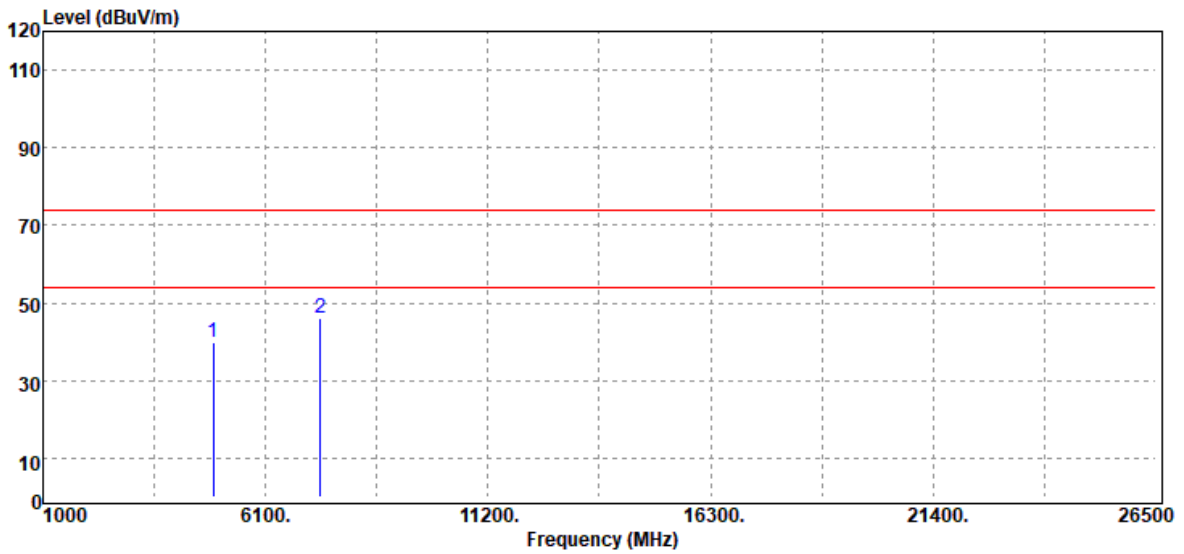


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.00	Peak	37.90	5.92	43.82	74.00	-30.18
7311.00	Peak	31.69	13.26	44.95	74.00	-29.05
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



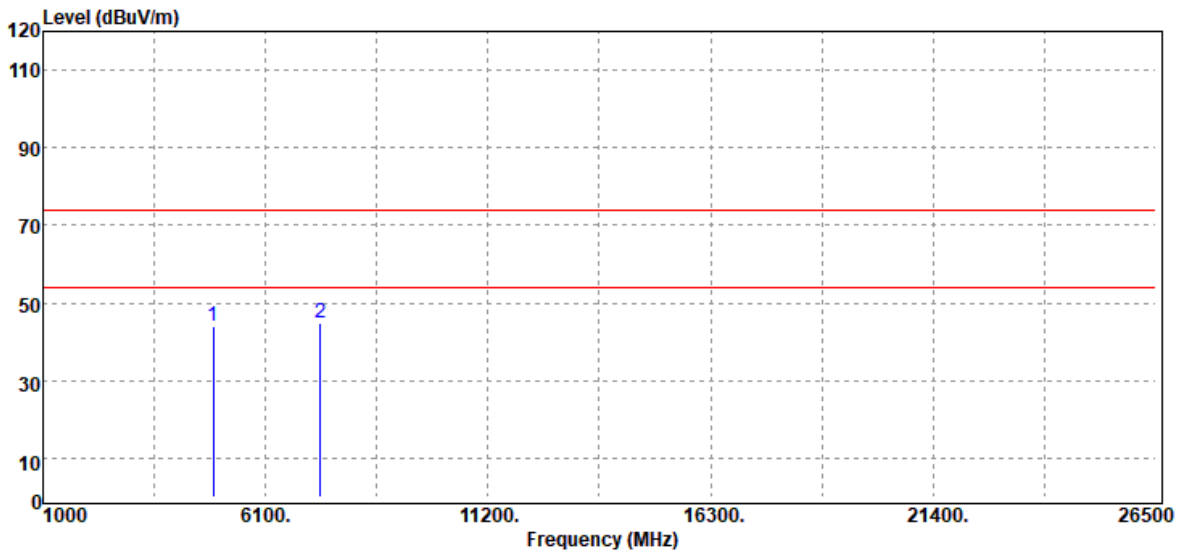
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4904.00	Peak	33.70	6.17	39.87	74.00	-34.13
7356.00	Peak	33.14	13.05	46.19	74.00	-27.81
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz, the EUT peak value was under average limit, therefore the Average value compliance with the average limit

Report No.: T210716W04-RP2

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	23.5(°C)/ 64%RH
Test Item	Harmonic	Test Date	July 30, 2021
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4904.00	Peak	37.94	6.17	44.11	74.00	-29.89
7356.00	Peak	31.81	13.05	44.86	74.00	-29.14
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. For above 1GHz,the EUT peak value was under average limit, therefore the Average value compliance with the average limit

**- End of Test Report -**