

Report No.: TMWK2205001728KR

## 4.5 CONDUCTED BANDEDGE AND SPURIOUS EMISSION

### 4.5.1 Test Limit

According to §15.247(d),

In any 100 kHz bandwidth outside the authorized frequency band,

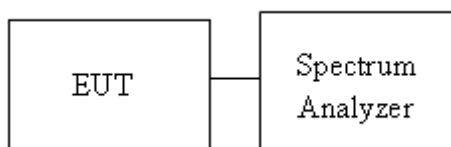
Non-restricted bands shall be attenuated at least 20 dB/30 dB relative to the maximum PSD level in 100 kHz by RF conducted or a radiated measurement which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

### 4.5.2 Test Procedure

Test method Refer as KDB 662911 D01, ANSI C63.10:2013.

1. EUT RF output port connected to the SA by RF cable, and the path loss was compensated to result.
2. SA setting, RBW=100kHz, VBW=300kHz, Detector=Peak, Trace mode = max hold, SWT = Auto.
3. In any 100 kHz bandwidth outside the authorized frequency band, shall be attenuated at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when conducted power procedure is used. 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.

### 4.5.3 Test Setup



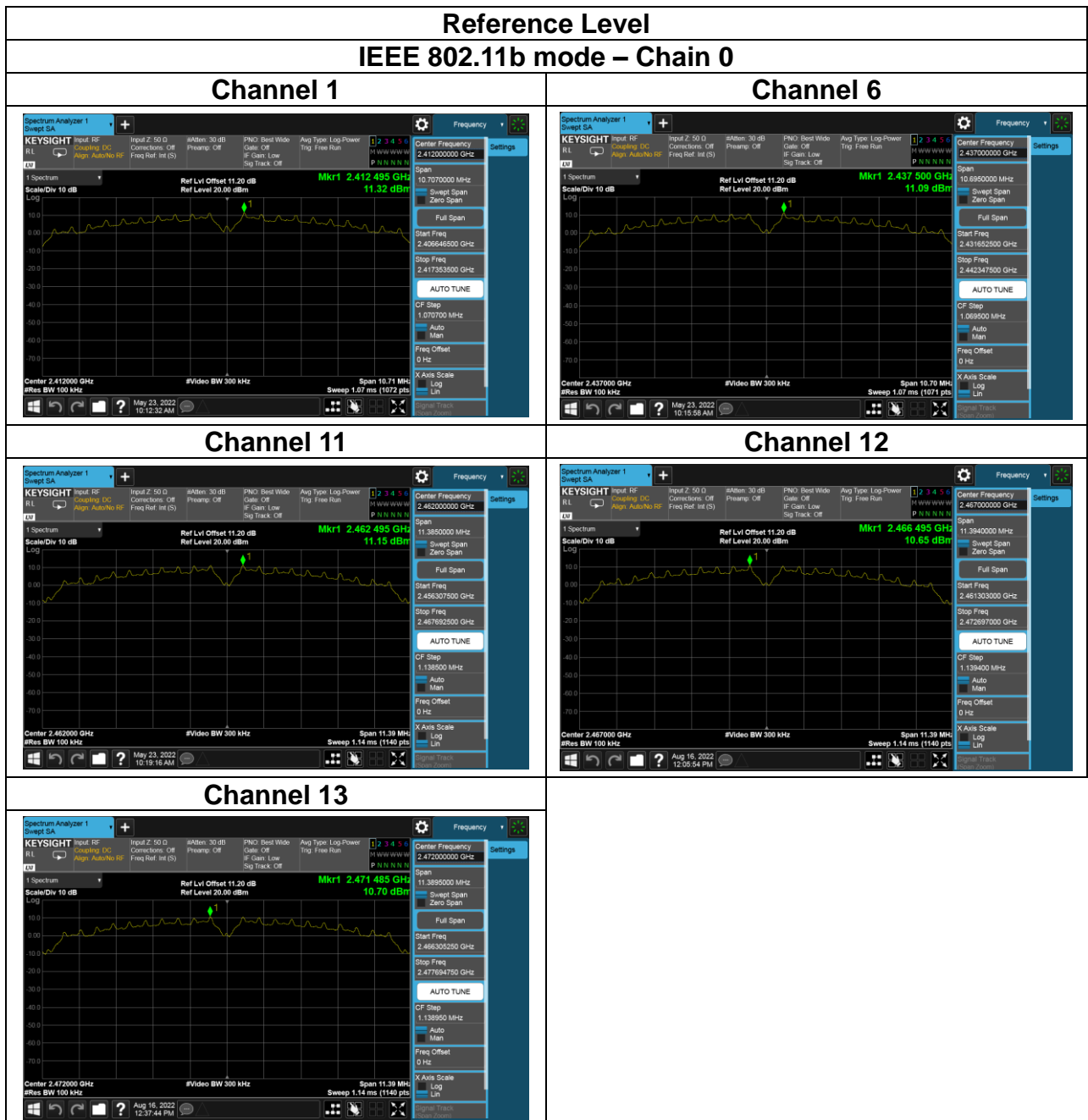
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## 4.5.4 Test Result

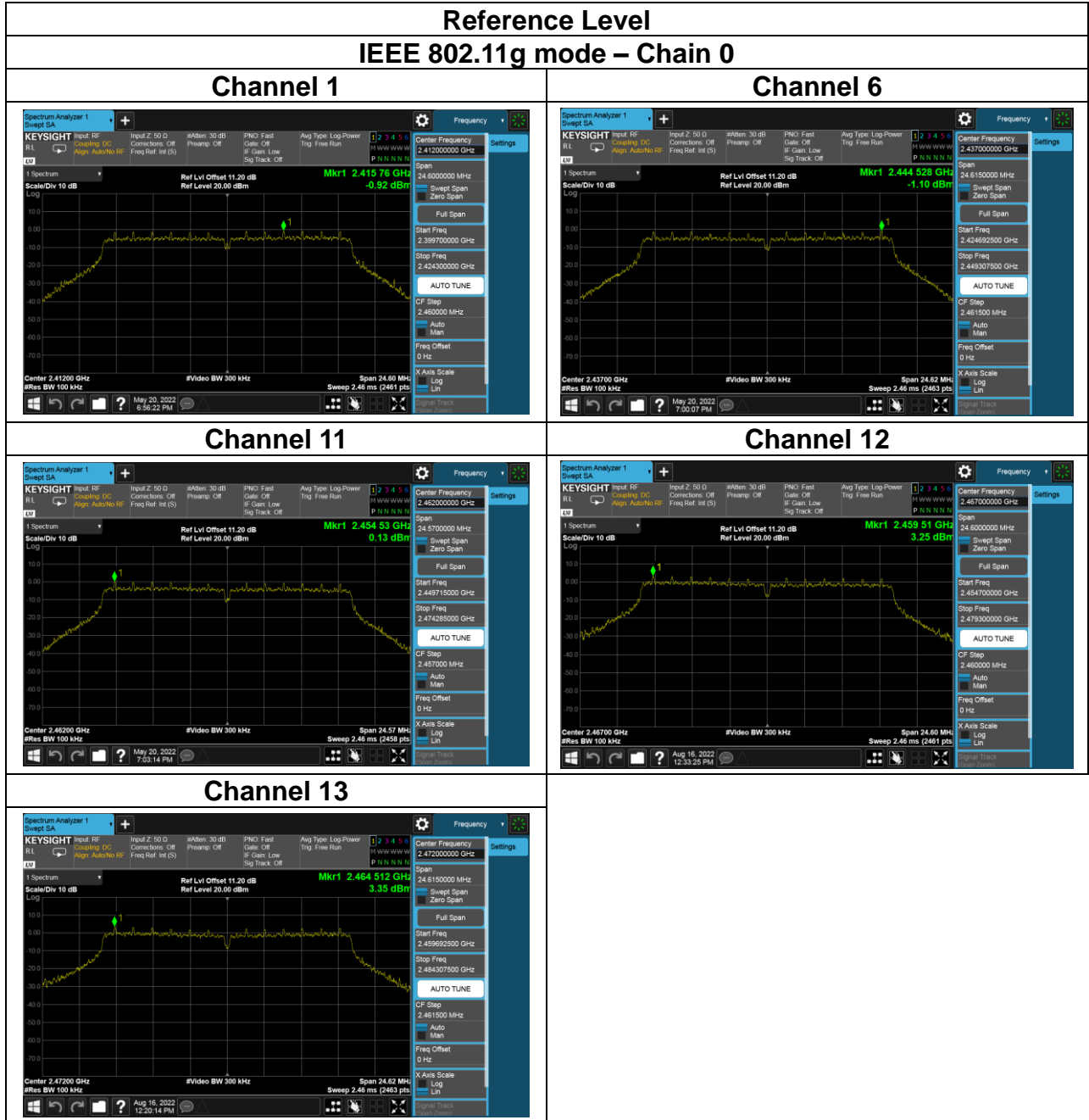
Temperature: 21.4~26.9°C  
Humidity: 47~69% RH

Test date: May 20~August 16, 2022  
Tested by: David Li

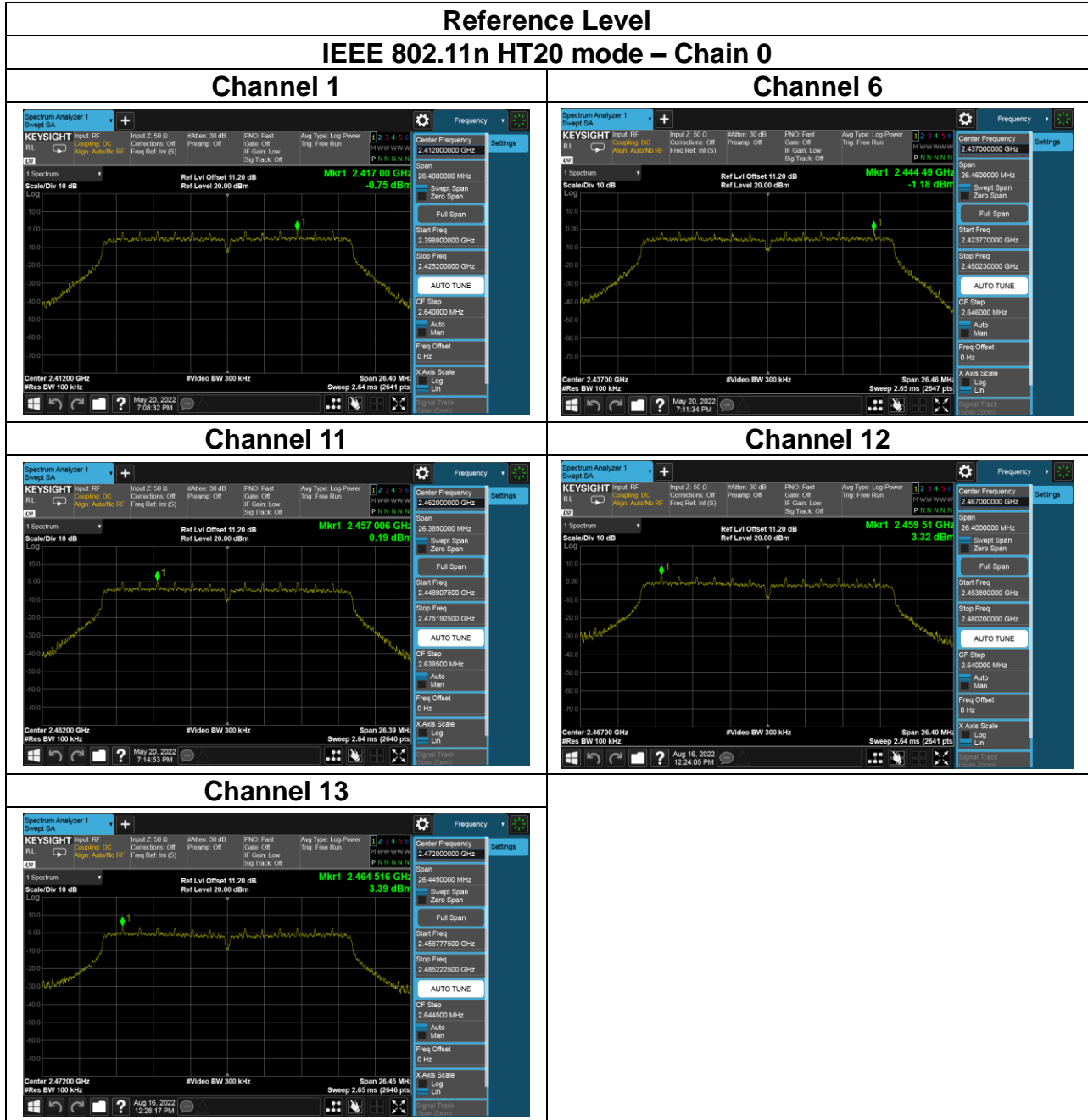
### Test Data



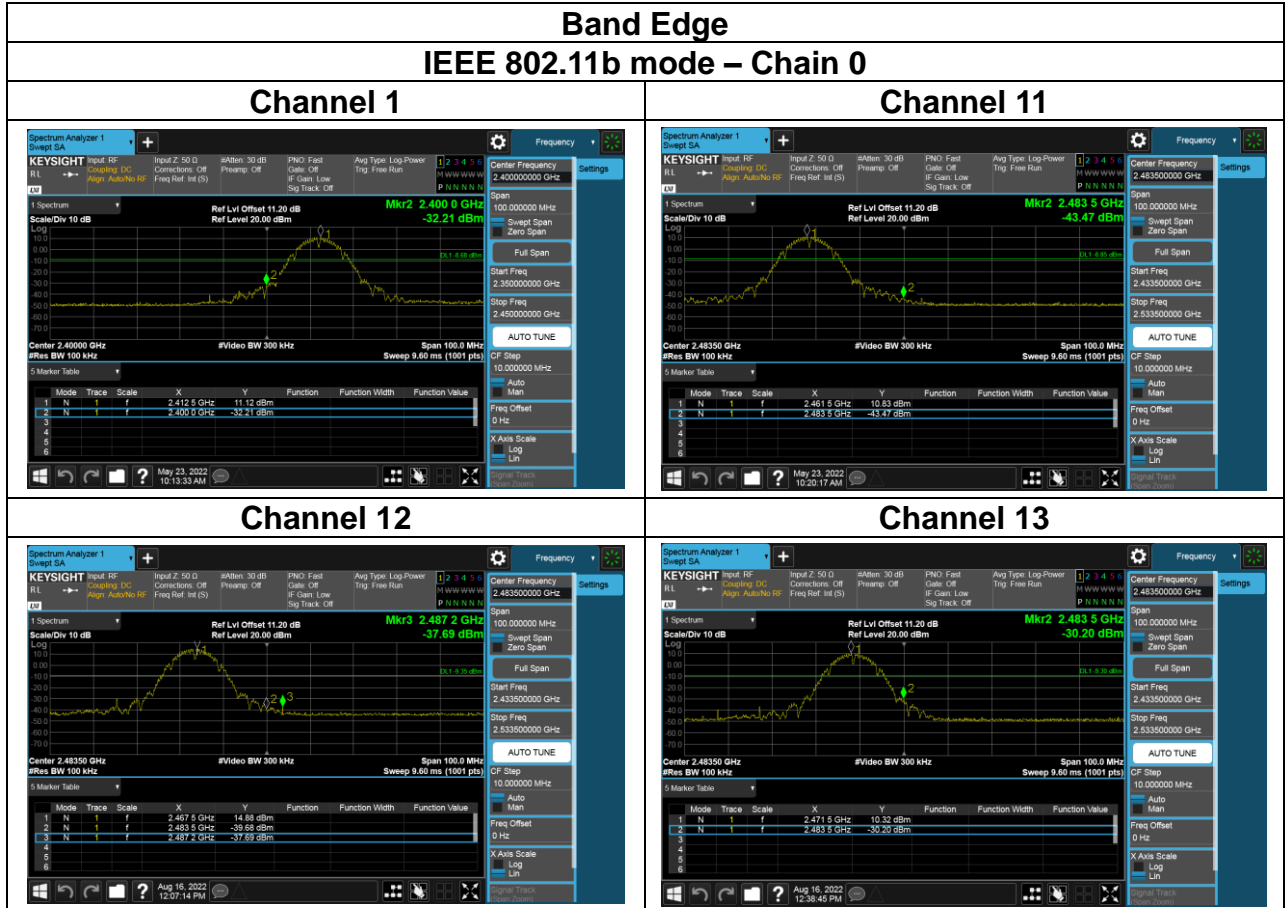
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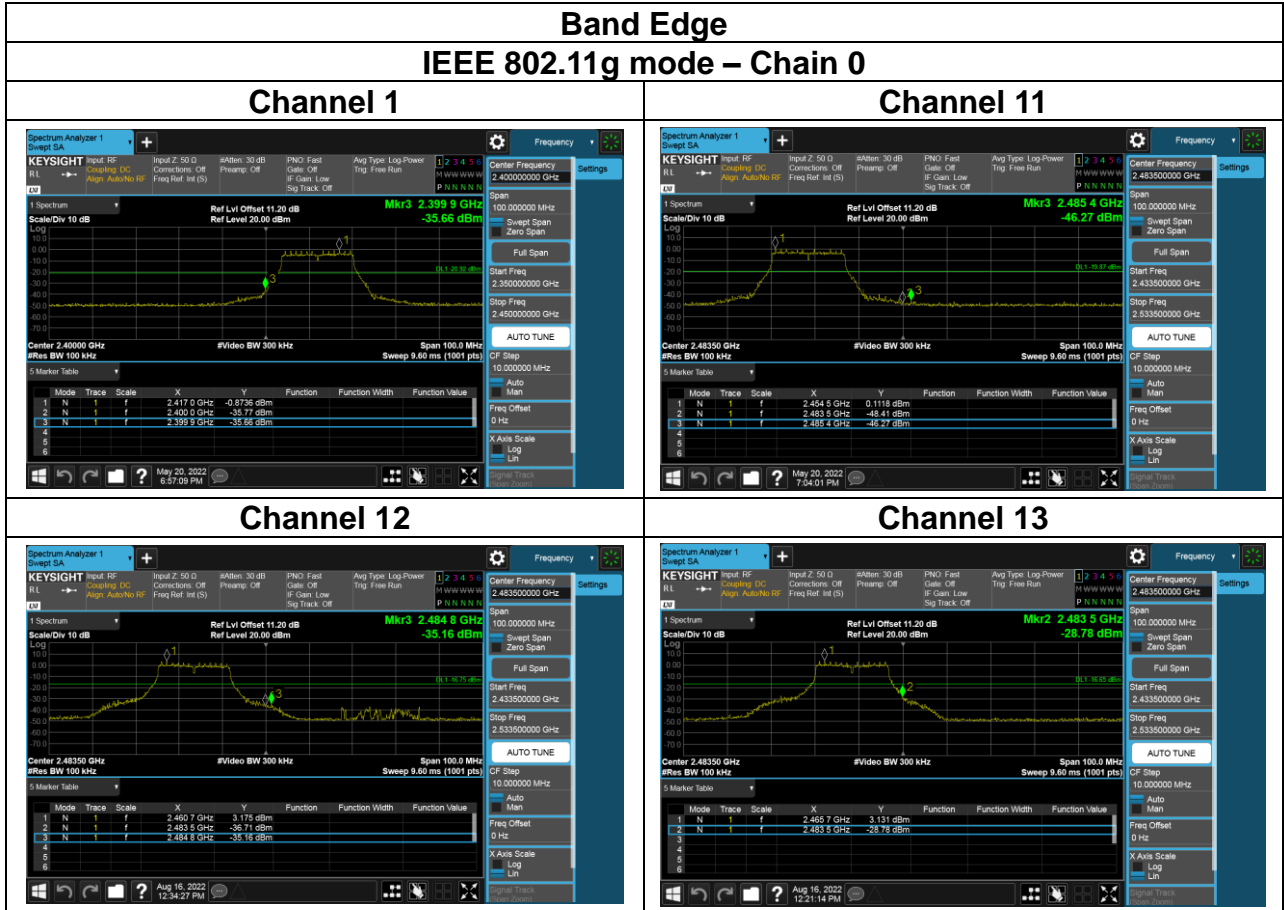
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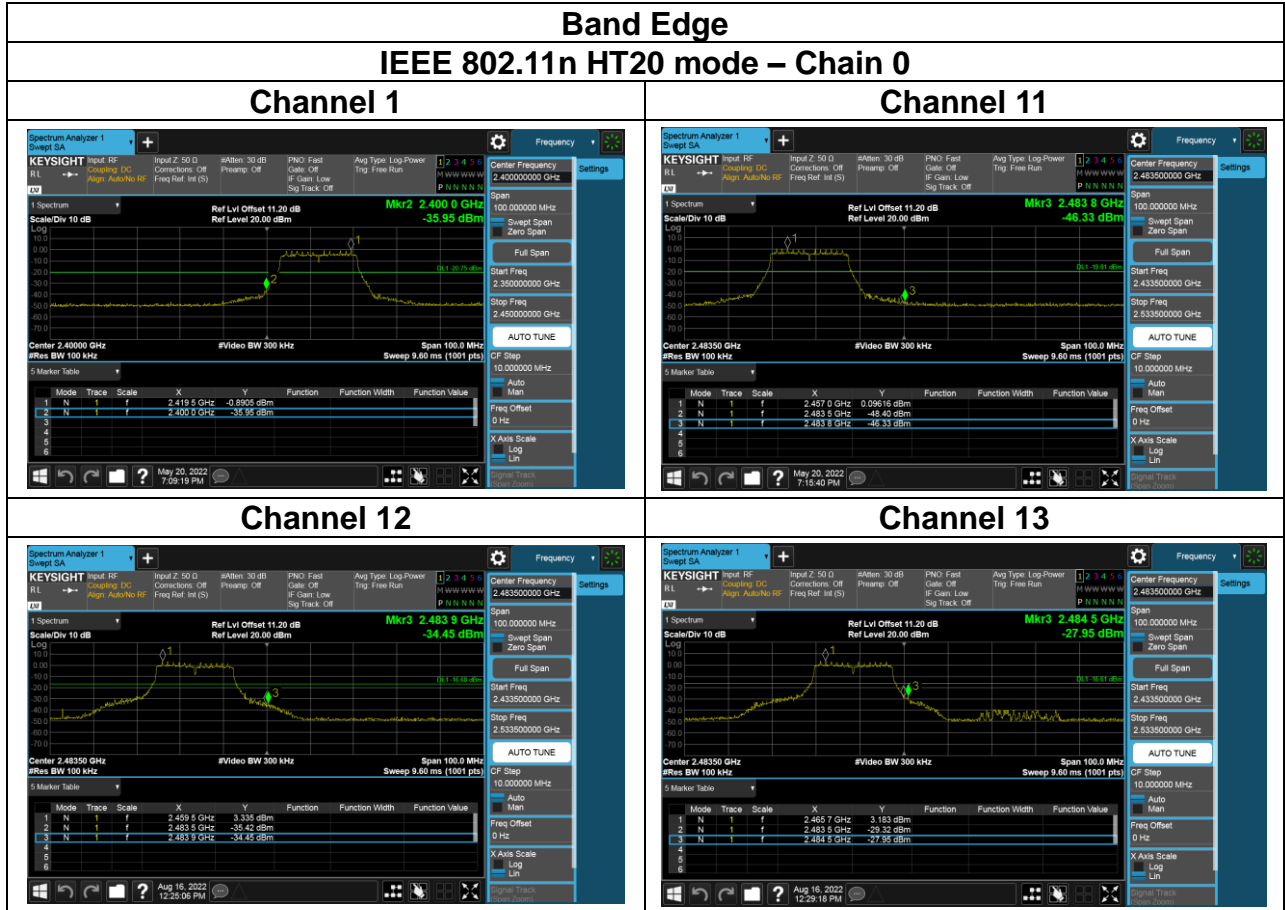
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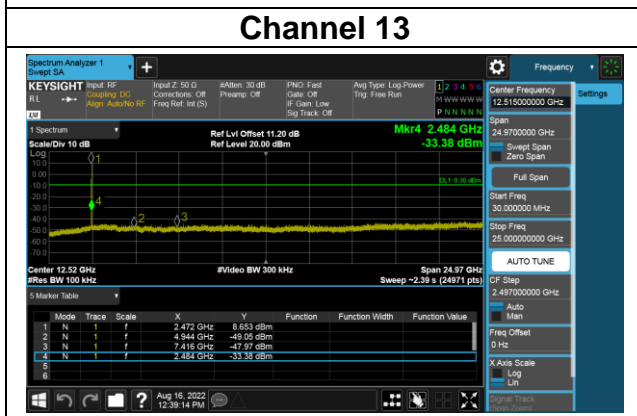
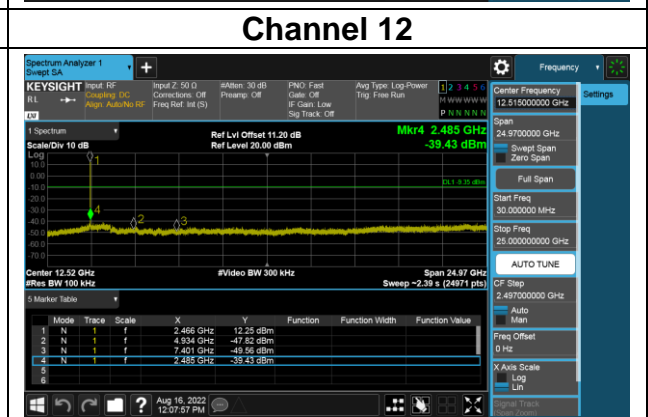
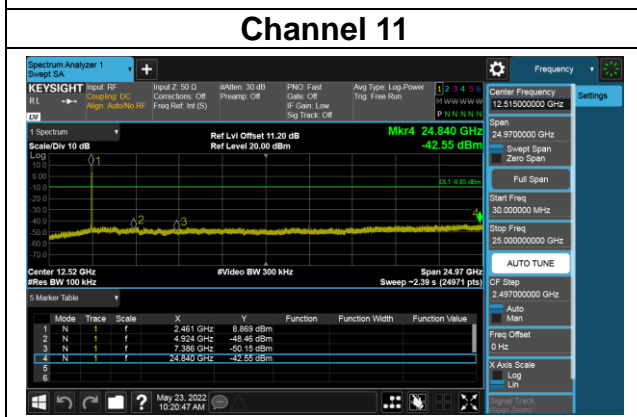
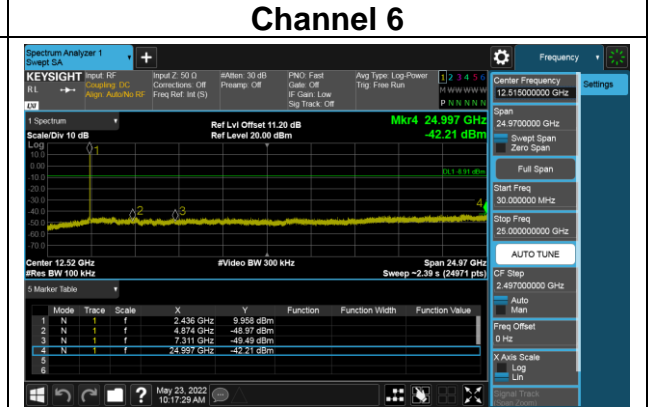
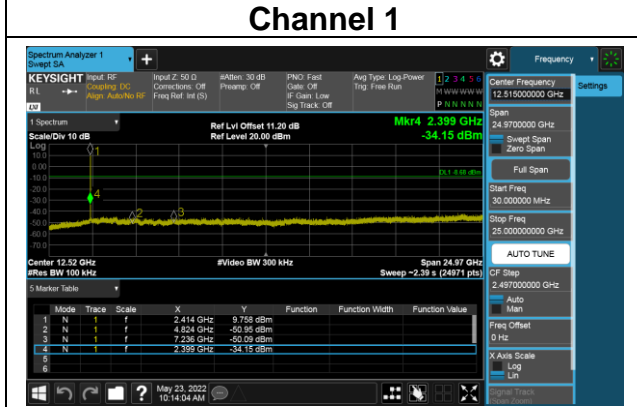
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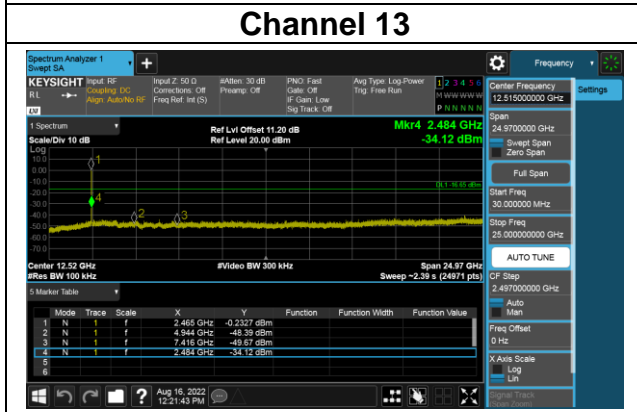
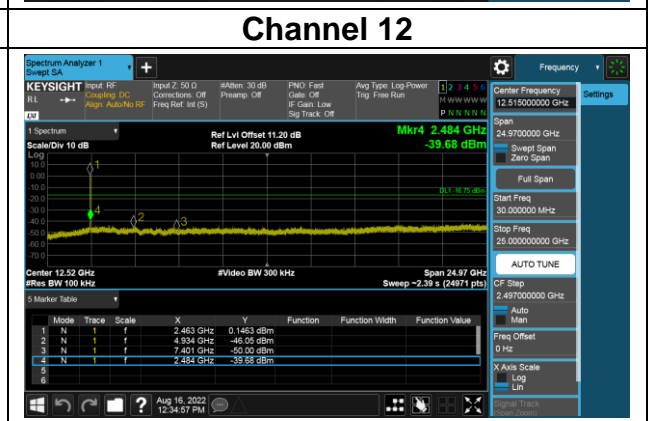
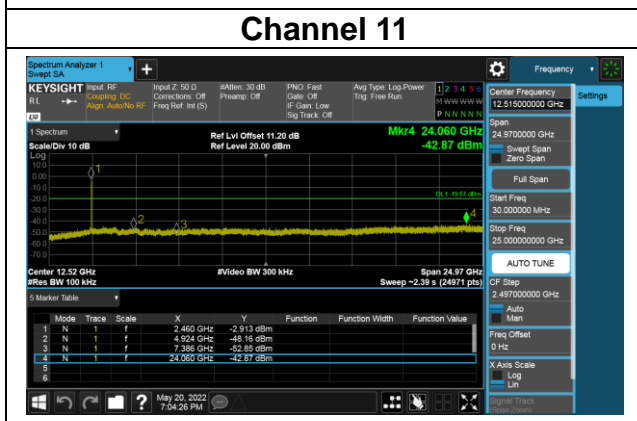
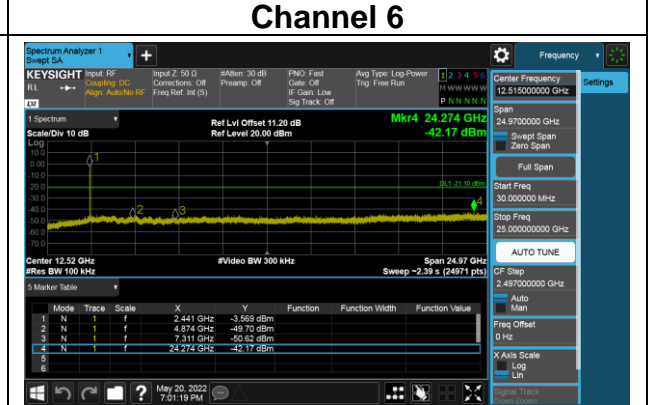
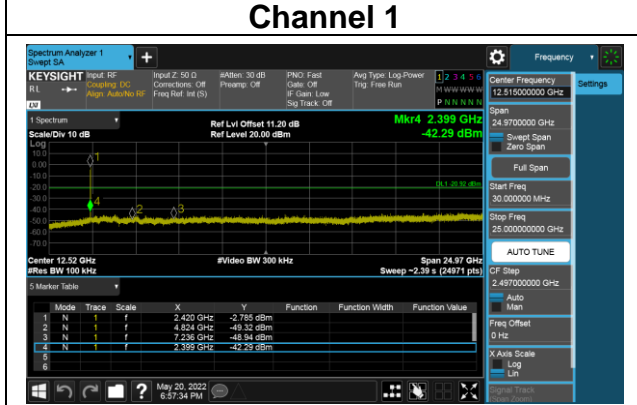
## Spurious Emission 30MHz-25GHz IEEE 802.11b mode – Chain 0



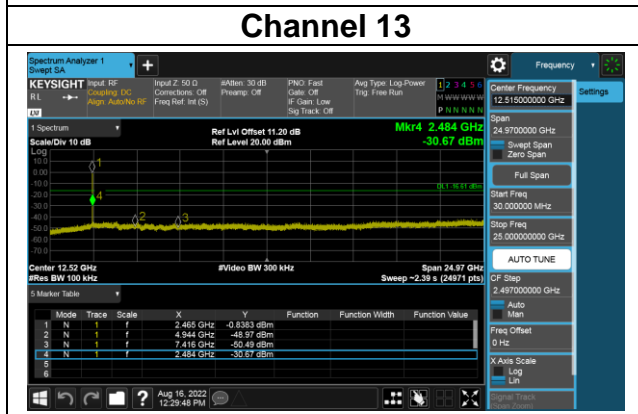
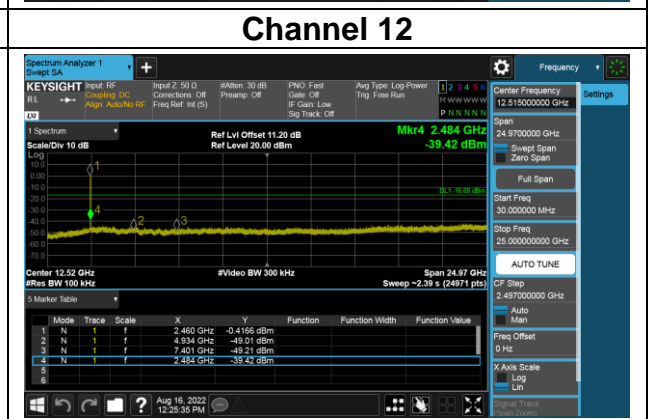
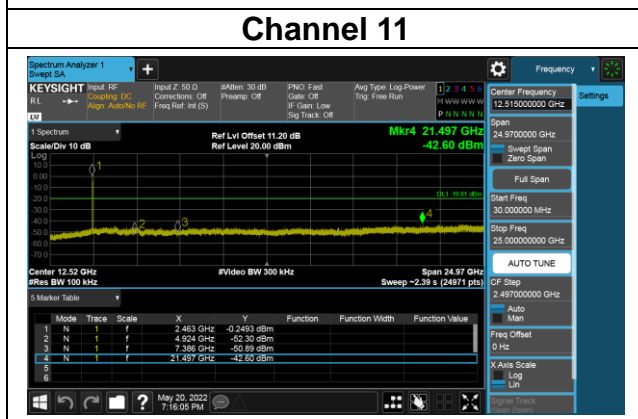
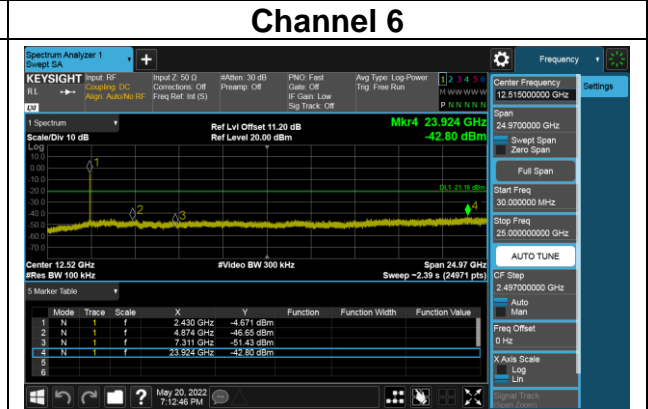
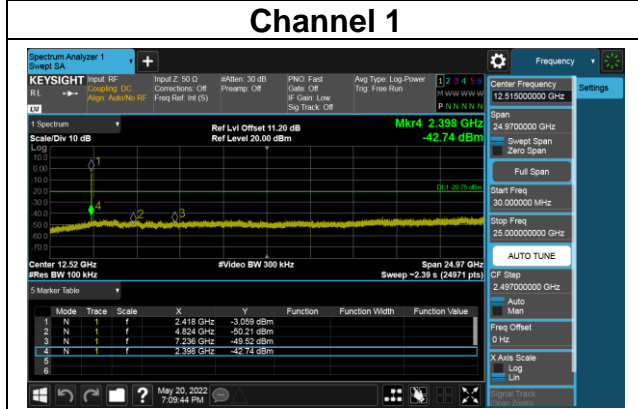


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## Spurious Emission 30MHz-25GHz IEEE 802.11g mode – Chain 0



## Spurious Emission 30MHz-25GHz IEEE 802.11n HT20 mode – Chain 0



## 4.6 RADIATION BANDEDGE AND SPURIOUS EMISSION

### 4.6.1 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

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## 4.6.2 Test Procedure

Test method Refer as KDB 662911 D01, 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.

(3) Data result :

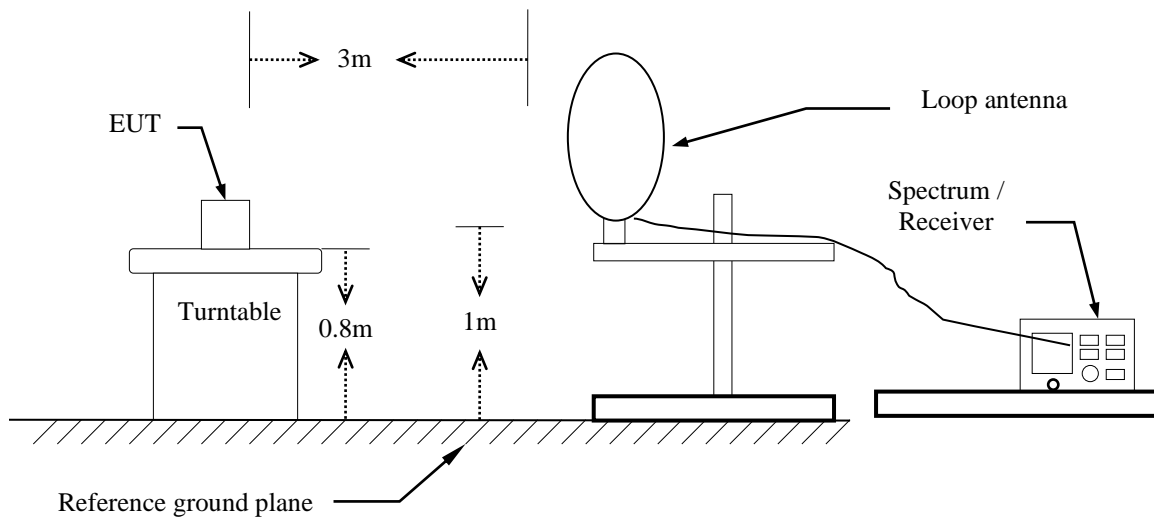
Actual FS=Spectrum Reading Level + Factor

Margin=Actual FS- Limit

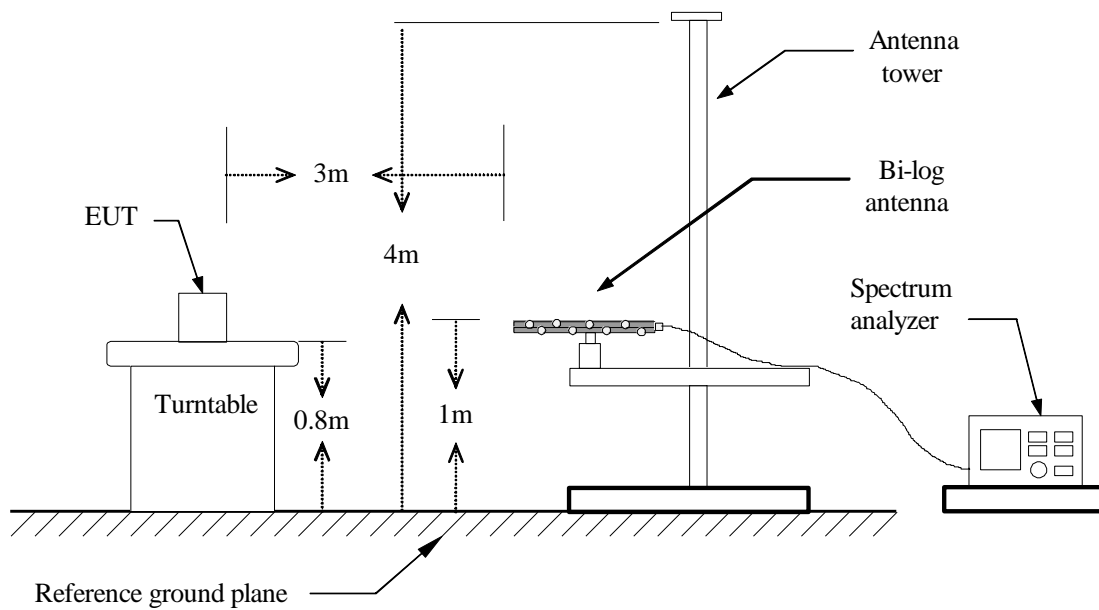
Report No.: TMWK2205001728KR

## 4.6.3 Test Setup

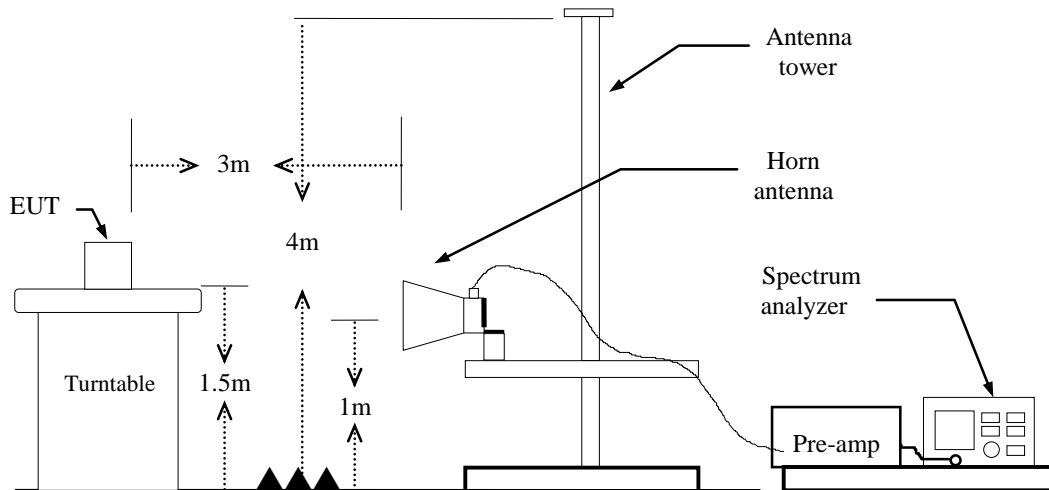
### 9kHz ~ 30MHz



### 30MHz ~ 1GHz



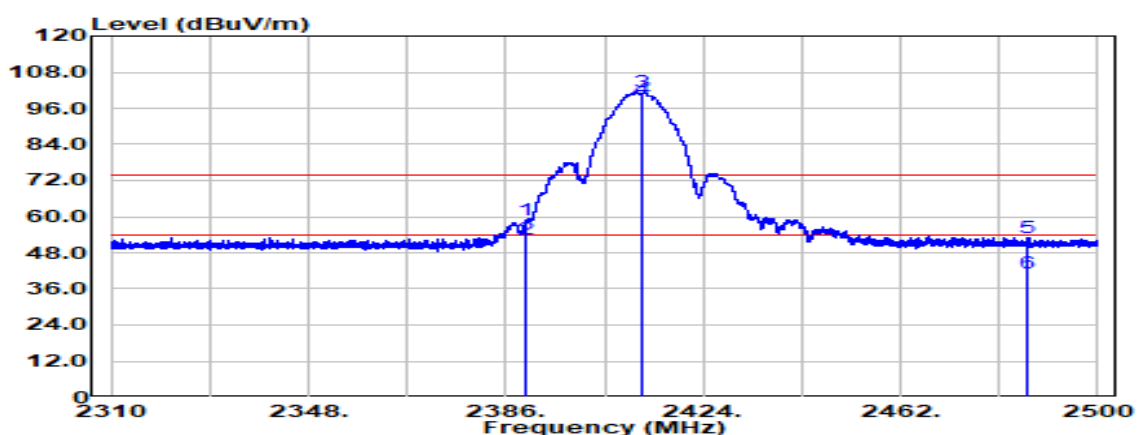
## Above 1 GHz



### 4.6.4 Test Result

#### Band Edge Test Data

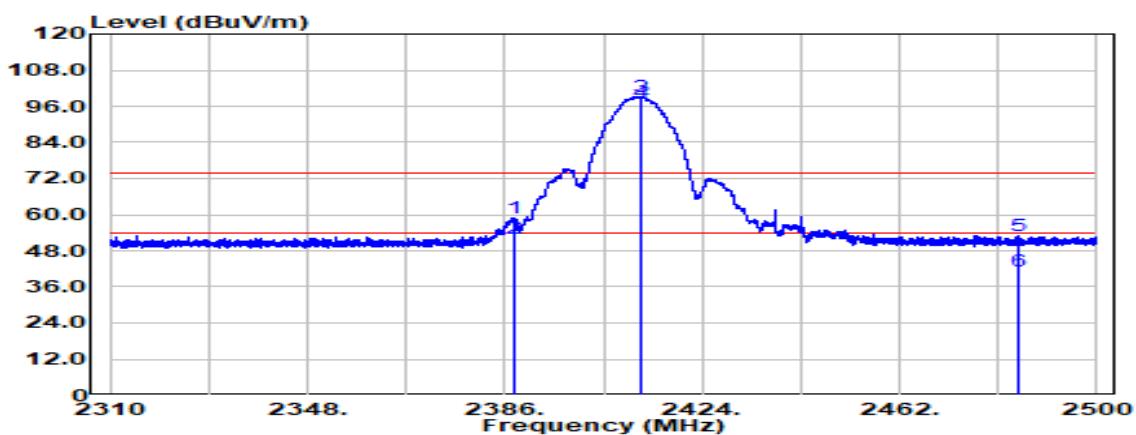
Test Mode	IEEE 802.11b / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.914	Peak	46.24	12.48	58.72	74.00	-15.28
2389.914	Average	40.21	12.48	52.69	54.00	-1.31
2412.000	Peak	88.87	12.61	101.47	--	--
2412.000	Average	86.61	12.61	99.22	--	--
2486.244	Peak	39.87	13.10	52.97	74.00	-21.03
2486.244	Average	28.22	13.10	41.32	54.00	-12.68

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Test Mode	IEEE 802.11b / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		

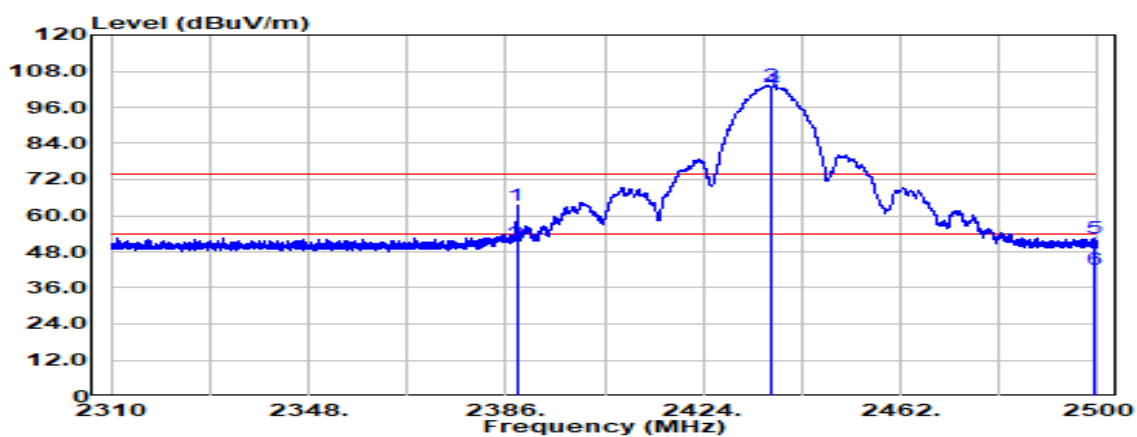


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2387.938	Peak	46.58	12.47	59.05	74.00	-14.95
2387.938	Average	39.80	12.47	52.27	54.00	-1.73
2412.000	Peak	86.67	12.61	99.28	--	--
2412.000	Average	84.77	12.61	97.37	--	--
2484.914	Peak	39.89	13.09	52.98	74.00	-21.02
2484.914	Average	28.17	13.09	41.25	54.00	-12.75



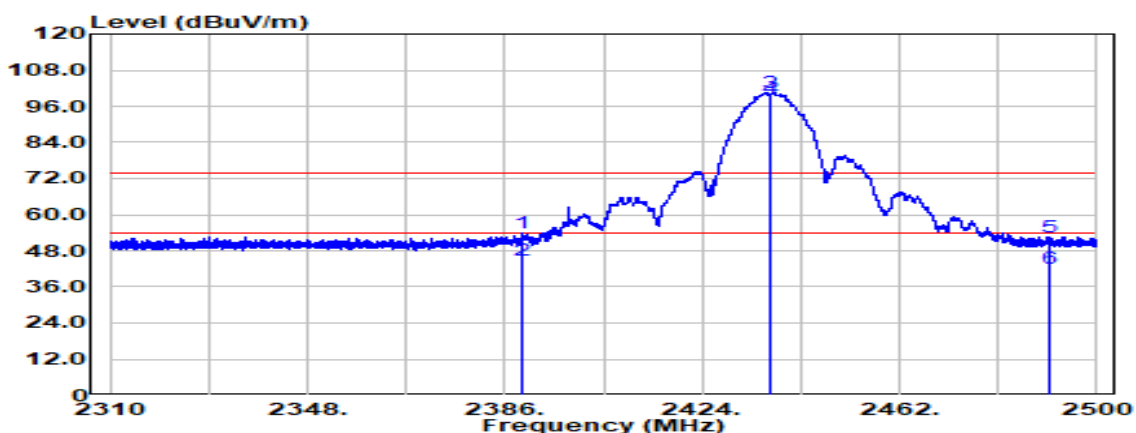
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Test Mode	IEEE 802.11b / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



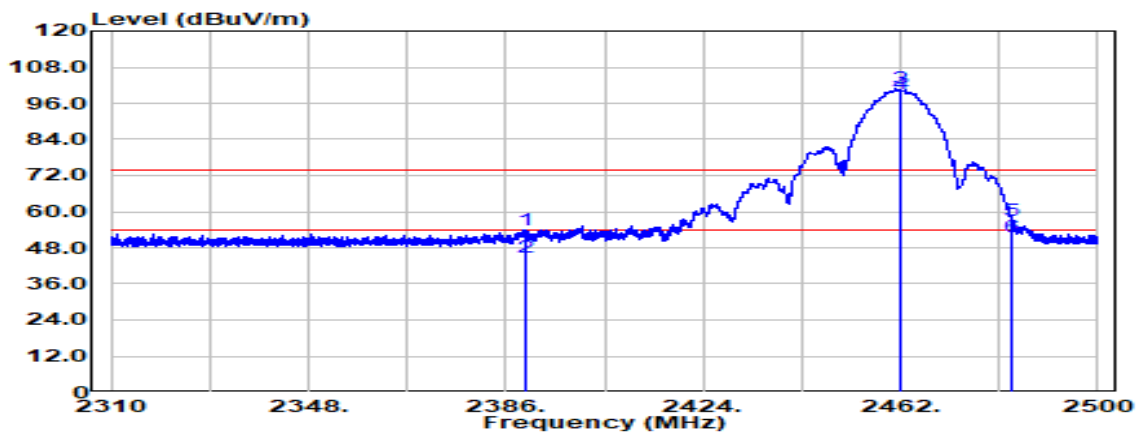
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2388.090	Peak	51.09	12.47	63.56	74.00	-10.44
2388.090	Average	38.46	12.47	50.93	54.00	-3.07
2437.000	Peak	90.66	12.77	103.43	--	--
2437.000	Average	89.11	12.77	101.88	--	--
2499.126	Peak	39.55	13.18	52.73	74.00	-21.27
2499.126	Average	28.88	13.18	42.06	54.00	-11.94

Test Mode	IEEE 802.11b / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
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)
2389.230	Peak	41.53	12.48	54.00	74.00	-20.00
2389.230	Average	32.32	12.48	44.80	54.00	-9.20
2437.000	Peak	87.81	12.77	100.57	--	--
2437.000	Average	86.04	12.77	98.81	--	--
2490.842	Peak	39.60	13.13	52.73	74.00	-21.27
2490.842	Average	28.79	13.13	41.91	54.00	-12.09

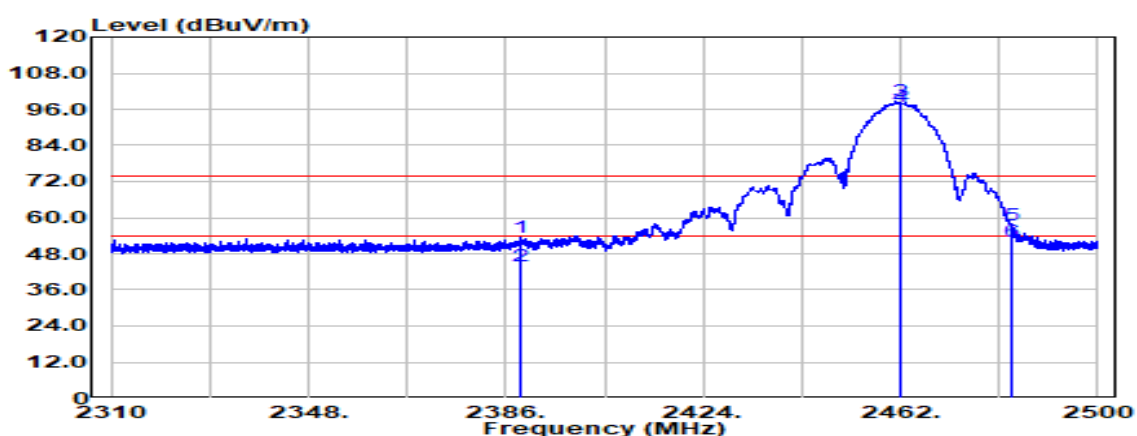
Test Mode	IEEE 802.11b / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.762	Peak	41.38	12.48	53.86	74.00	-20.14
2389.762	Average	32.38	12.48	44.85	54.00	-9.15
2462.000	Peak	87.83	12.93	100.76	--	--
2462.000	Average	86.28	12.93	99.22	--	--
2483.584	Peak	43.86	13.08	56.94	74.00	-17.06
2483.584	Average	38.74	13.08	51.82	54.00	-2.18

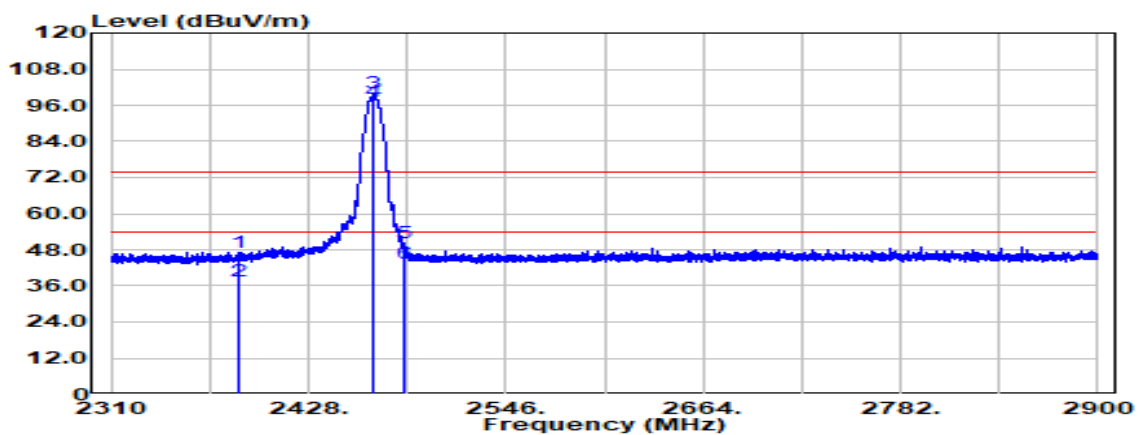
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Test Mode	IEEE 802.11b / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.040	Peak	40.88	12.48	53.36	74.00	-20.64
2389.040	Average	31.66	12.48	44.13	54.00	-9.87
2462.000	Peak	85.67	12.93	98.60	--	--
2462.000	Average	83.77	12.93	96.70	--	--
2483.546	Peak	44.26	13.08	57.33	74.00	-16.67
2483.546	Average	38.80	13.08	51.88	54.00	-2.12

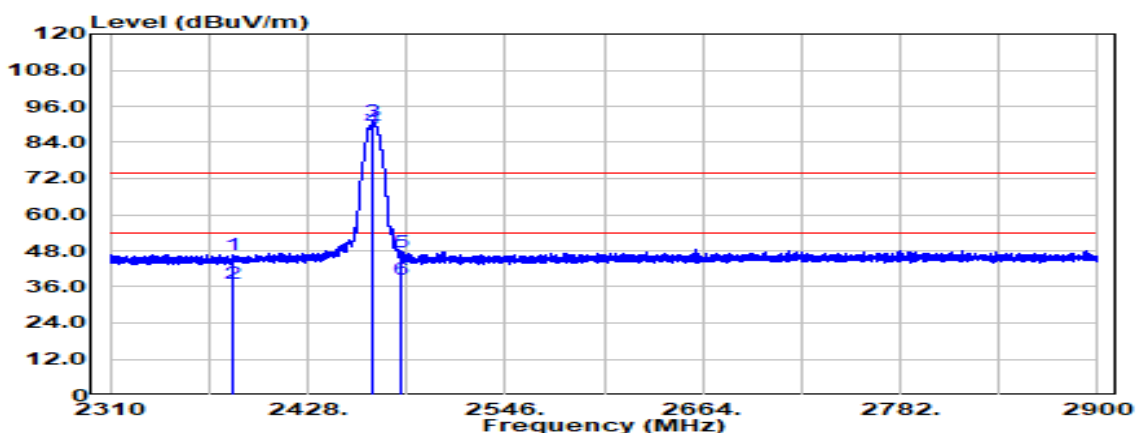
Test Mode	IEEE 802.11b / 2467 MHz	Temp/Hum	24.2(°C) / 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2386.346	Peak	39.51	7.74	47.26	74.00	-26.74
2386.346	Average	29.76	7.74	37.50	54.00	-16.50
2467.000	Peak	91.79	8.18	99.97	--	--
2467.000	Average	89.29	8.18	97.47	--	--
2484.640	Peak	42.03	8.27	50.29	74.00	-23.71
2484.640	Average	35.07	8.27	43.33	54.00	-10.67

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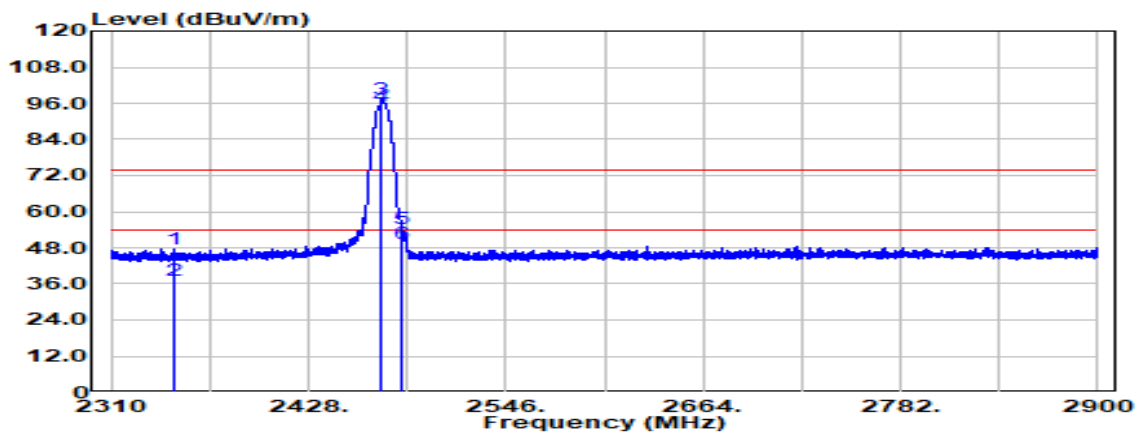
Test Mode	IEEE 802.11b / 2467 MHz	Temp/Hum	24.2(°C)/ 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2383.160	Peak	38.90	7.73	46.63	74.00	-27.37
2383.160	Average	29.58	7.73	37.31	54.00	-16.69
2467.000	Peak	82.97	8.18	91.15	--	--
2467.000	Average	80.49	8.18	88.67	--	--
2483.578	Peak	39.45	8.26	47.71	74.00	-26.29
2483.578	Average	30.27	8.26	38.53	54.00	-15.47

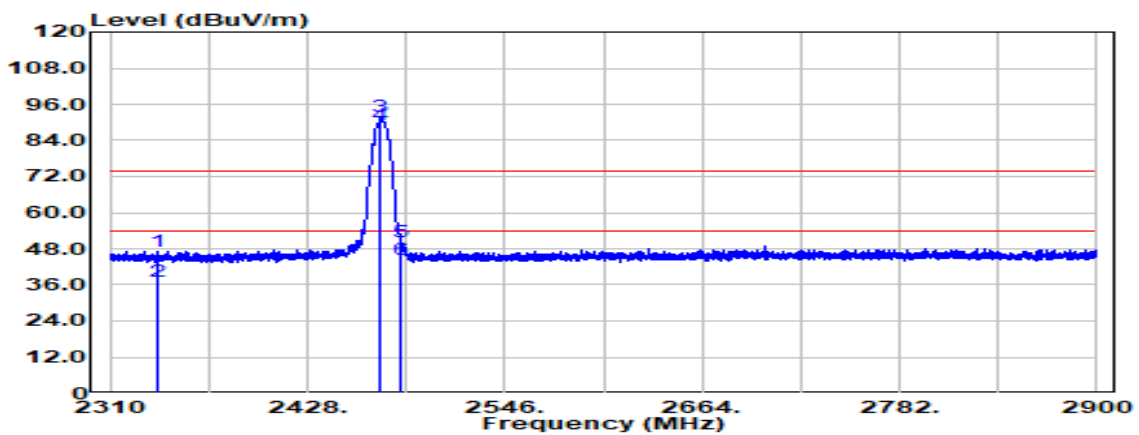
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Test Mode	IEEE 802.11b / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2347.406	Peak	39.74	7.64	47.37	74.00	-26.63
2347.406	Average	29.59	7.64	37.23	54.00	-16.77
2472.000	Peak	89.35	8.21	97.56	--	--
2472.000	Average	86.99	8.21	95.20	--	--
2483.500	Peak	46.01	8.26	54.27	74.00	-19.73
2483.500	Average	41.29	8.26	49.55	54.00	-4.45

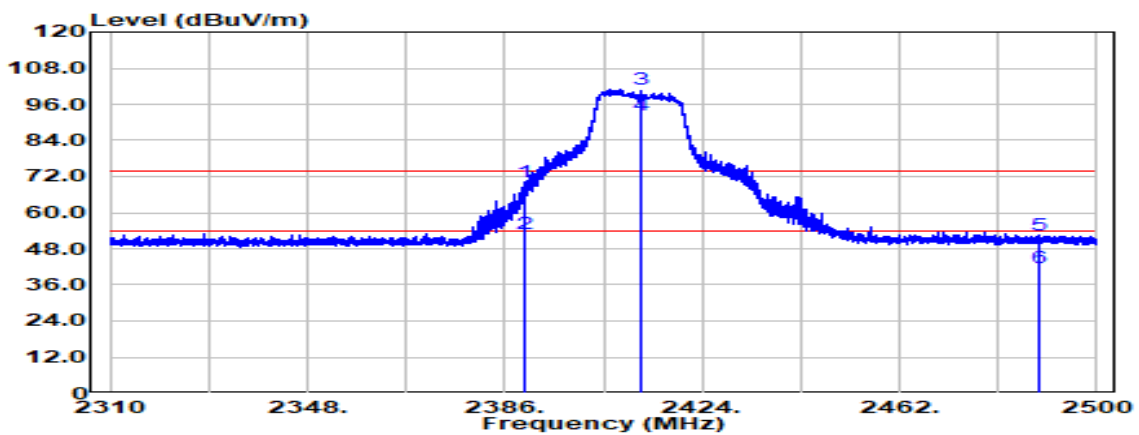
Test Mode	IEEE 802.11b / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2338.438	Peak	39.48	7.62	47.10	74.00	-26.90
2338.438	Average	29.50	7.62	37.12	54.00	-16.88
2472.000	Peak	83.59	8.21	91.80	--	--
2472.000	Average	81.22	8.21	89.43	--	--
2483.500	Peak	42.02	8.26	50.28	74.00	-23.72
2483.500	Average	35.89	8.26	44.15	54.00	-9.85

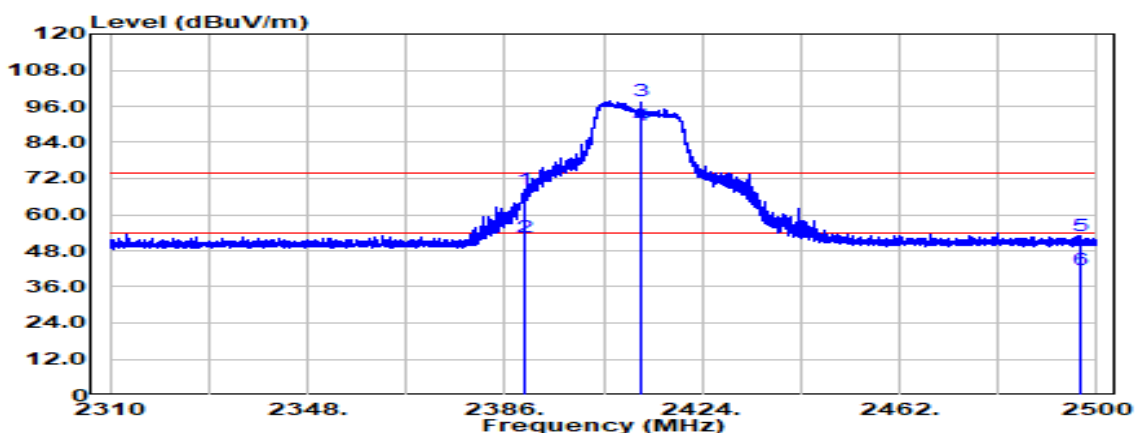


Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



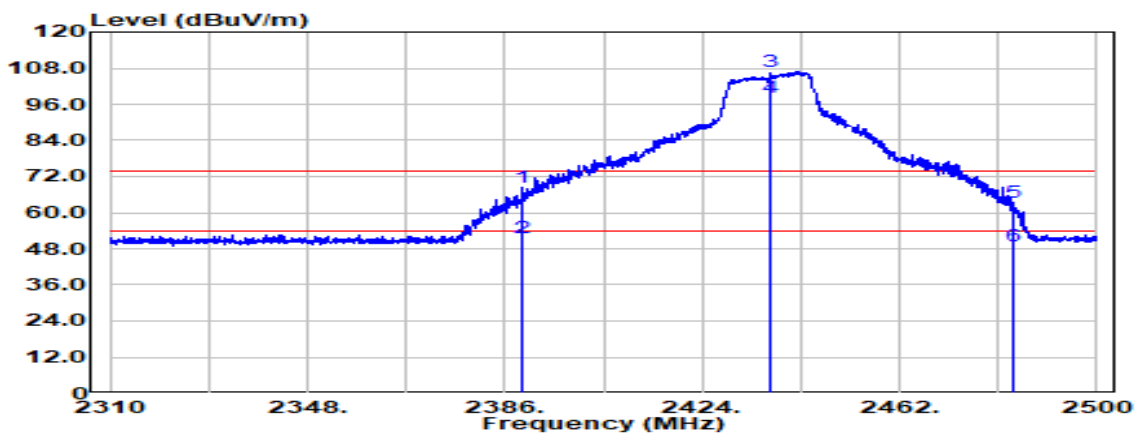
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.838	Peak	57.49	12.48	69.97	74.00	-4.03
2389.838	Average	40.42	12.48	52.90	54.00	-1.10
2412.000	Peak	88.54	12.61	101.14	--	--
2412.000	Average	79.73	12.61	92.34	--	--
2488.980	Peak	39.54	13.12	52.66	74.00	-21.34
2488.980	Average	28.75	13.12	41.87	54.00	-12.13

Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



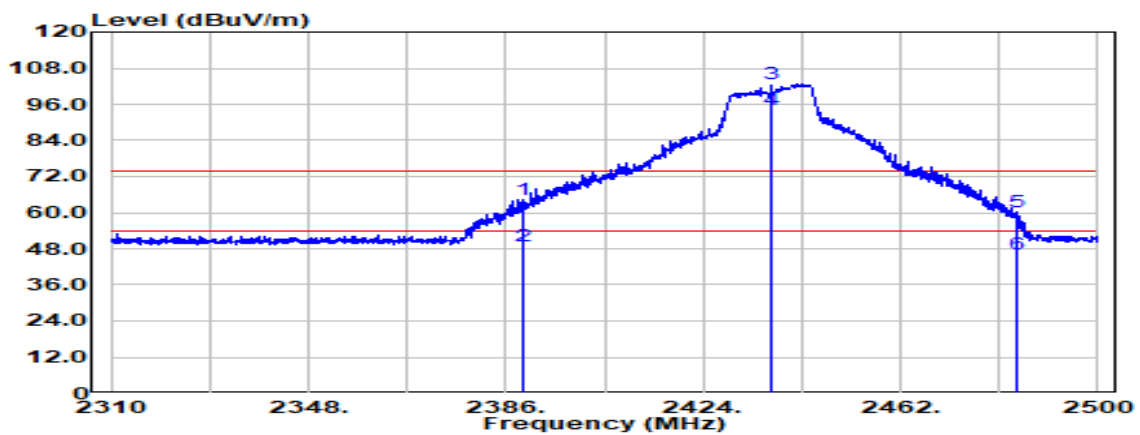
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.610	Peak	56.03	12.48	68.51	74.00	-5.49
2389.610	Average	39.83	12.48	52.31	54.00	-1.69
2412.000	Peak	85.03	12.61	97.63	--	--
2412.000	Average	76.97	12.61	89.57	--	--
2496.808	Peak	40.00	13.17	53.17	74.00	-20.83
2496.808	Average	28.63	13.17	41.80	54.00	-12.20

Test Mode	IEEE 802.11g / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



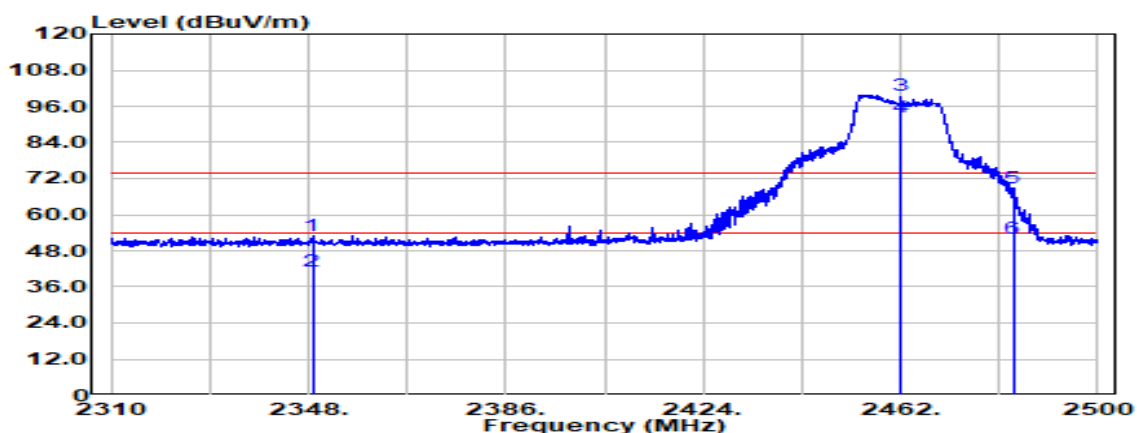
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.420	Peak	55.70	12.48	68.17	74.00	-5.83
2389.420	Average	39.05	12.48	51.52	54.00	-2.48
2437.000	Peak	93.94	12.77	106.71	--	--
2437.000	Average	85.43	12.77	98.19	--	--
2483.850	Peak	50.25	13.08	63.33	74.00	-10.67
2483.850	Average	35.63	13.08	48.71	54.00	-5.29

Test Mode	IEEE 802.11g / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



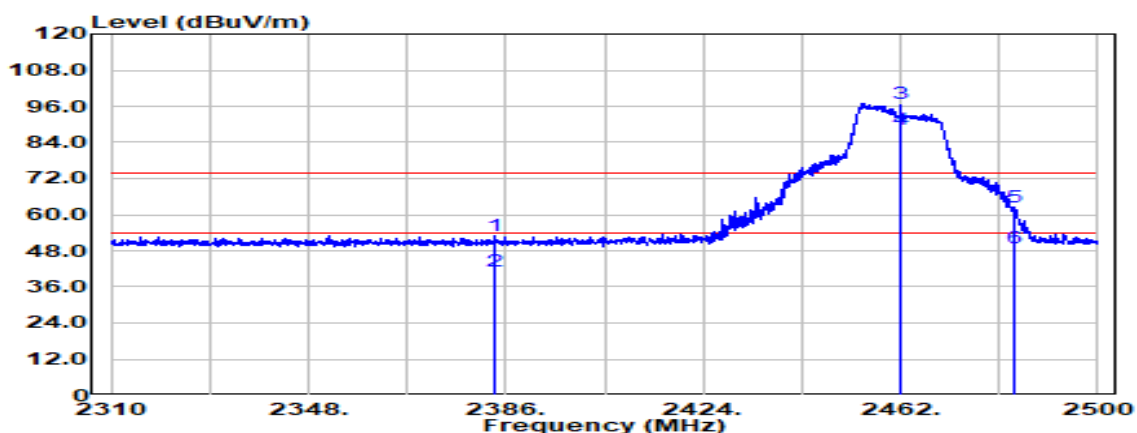
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.515	Peak	52.04	12.48	64.52	74.00	-9.48
2389.515	Average	36.41	12.48	48.88	54.00	-5.12
2437.000	Peak	90.01	12.77	102.78	--	--
2437.000	Average	81.51	12.77	94.27	--	--
2484.325	Peak	47.07	13.08	60.15	74.00	-13.85
2484.325	Average	33.19	13.08	46.27	54.00	-7.73

Test Mode	IEEE 802.11g / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



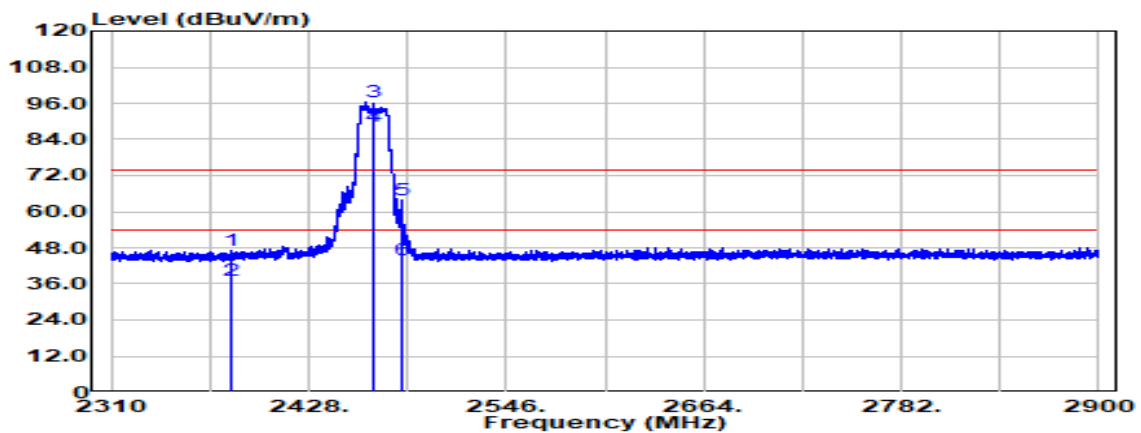
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2348.760	Peak	40.55	12.28	52.82	74.00	-21.18
2348.760	Average	28.97	12.28	41.25	54.00	-12.75
2462.000	Peak	86.88	12.93	99.81	--	--
2462.000	Average	79.28	12.93	92.21	--	--
2483.660	Peak	55.78	13.08	68.86	74.00	-5.14
2483.660	Average	38.86	13.08	51.94	54.00	-2.06

Test Mode	IEEE 802.11g / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
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)
2383.720	Peak	40.44	12.45	52.89	74.00	-21.11
2383.720	Average	28.92	12.45	41.37	54.00	-12.63
2462.000	Peak	84.00	12.93	96.94	--	--
2462.000	Average	75.54	12.93	88.47	--	--
2483.755	Peak	49.30	13.08	62.38	74.00	-11.62
2483.755	Average	35.91	13.08	48.99	54.00	-5.01

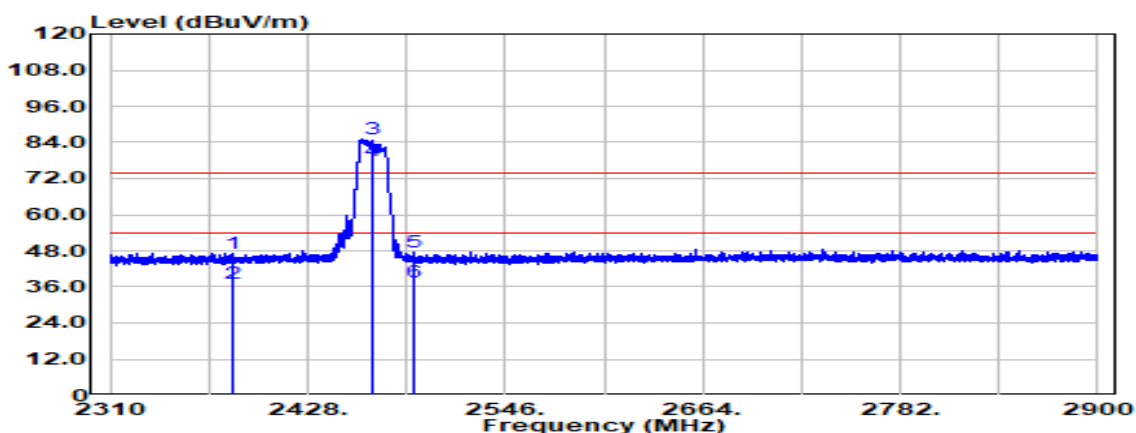
Test Mode	IEEE 802.11g / 2467 MHz	Temp/Hum	24.2(°C) / 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2381.626	Peak	39.48	7.73	47.21	74.00	-26.79
2381.626	Average	29.43	7.73	37.16	54.00	-16.84
2467.000	Peak	88.17	8.18	96.36	--	--
2467.000	Average	80.25	8.18	88.44	--	--
2483.578	Peak	55.69	8.26	63.95	74.00	-10.05
2483.578	Average	35.52	8.26	43.78	54.00	-10.22

Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11g / 2467 MHz	Temp/Hum	24.2(°C)/ 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		

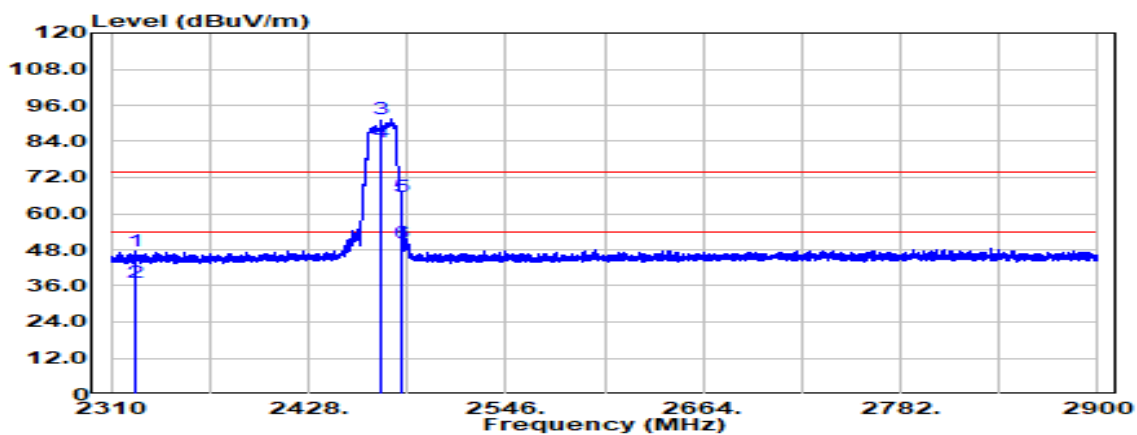


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2383.868	Peak	39.49	7.73	47.23	74.00	-26.77
2383.868	Average	29.44	7.73	37.17	54.00	-16.83
2467.000	Peak	77.16	8.18	85.34	--	--
2467.000	Average	69.86	8.18	78.04	--	--
2490.776	Peak	39.20	8.30	47.49	74.00	-26.51
2490.776	Average	29.33	8.30	37.62	54.00	-16.38



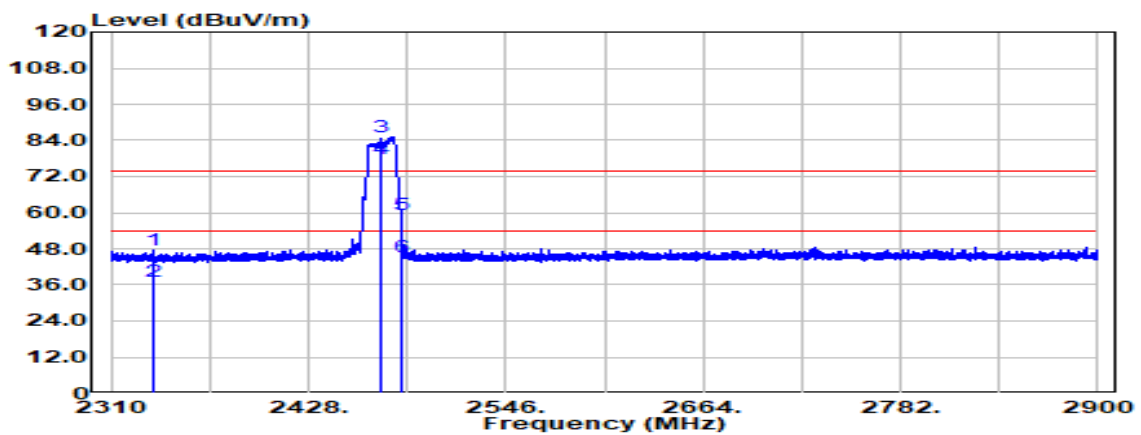
Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11g / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



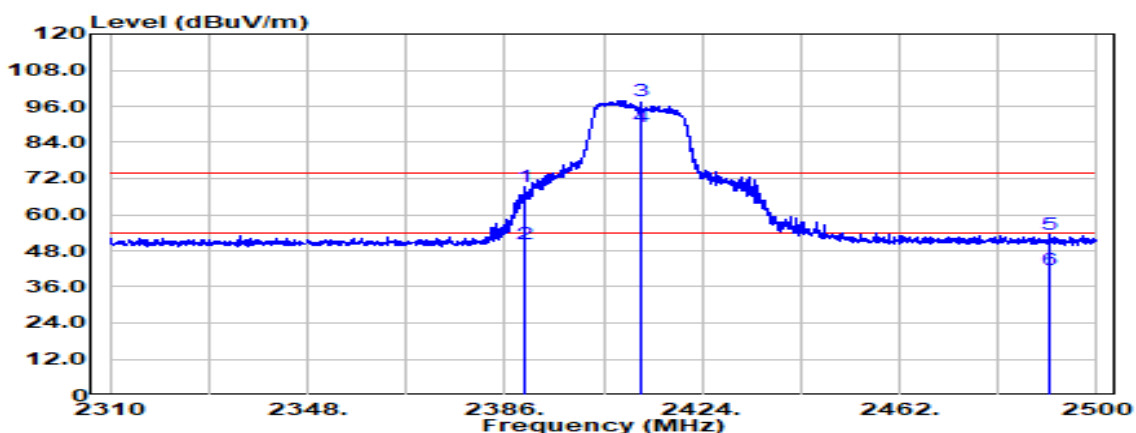
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2325.104	Peak	39.88	7.60	47.48	74.00	-26.52
2325.104	Average	29.59	7.60	37.19	54.00	-16.81
2472.000	Peak	83.15	8.21	91.35	--	--
2472.000	Average	75.45	8.21	83.66	--	--
2483.500	Peak	57.58	8.26	65.84	74.00	-8.16
2483.500	Average	42.10	8.26	50.36	54.00	-3.64

Test Mode	IEEE 802.11g / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak / Average		



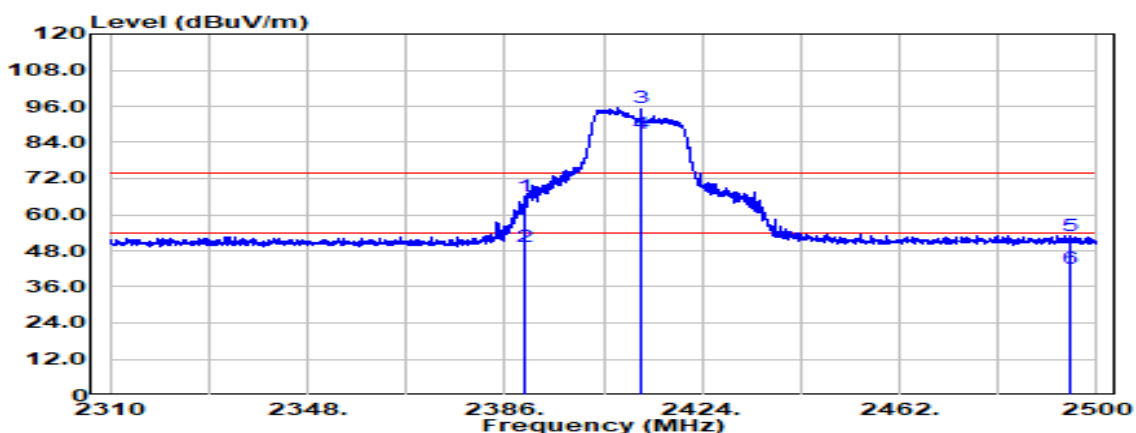
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2334.662	Peak	40.03	7.62	47.65	74.00	-26.35
2334.662	Average	29.57	7.62	37.18	54.00	-16.82
2472.000	Peak	76.87	8.21	85.08	--	--
2472.000	Average	69.78	8.21	77.99	--	--
2483.578	Peak	51.16	8.26	59.43	74.00	-14.57
2483.578	Average	36.84	8.26	45.10	54.00	-8.90

Test Mode	IEEE 802.11n HT20 / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



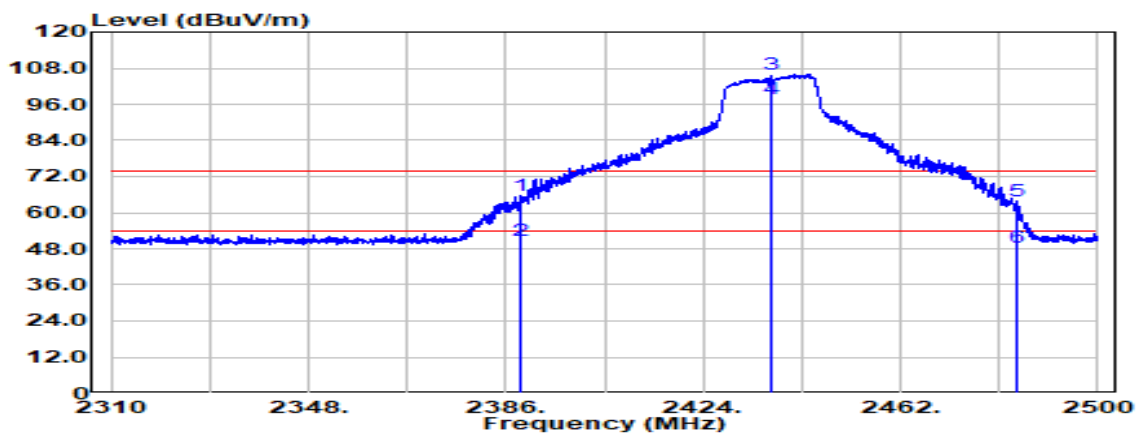
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2389.895	Peak	56.86	12.48	69.34	74.00	-4.66
2389.895	Average	38.00	12.48	50.48	54.00	-3.52
2412.000	Peak	85.17	12.61	97.78	--	--
2412.000	Average	76.51	12.61	89.12	--	--
2491.070	Peak	40.17	13.13	53.30	74.00	-20.70
2491.070	Average	28.75	13.13	41.88	54.00	-12.12

Test Mode	IEEE 802.11n HT20 / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



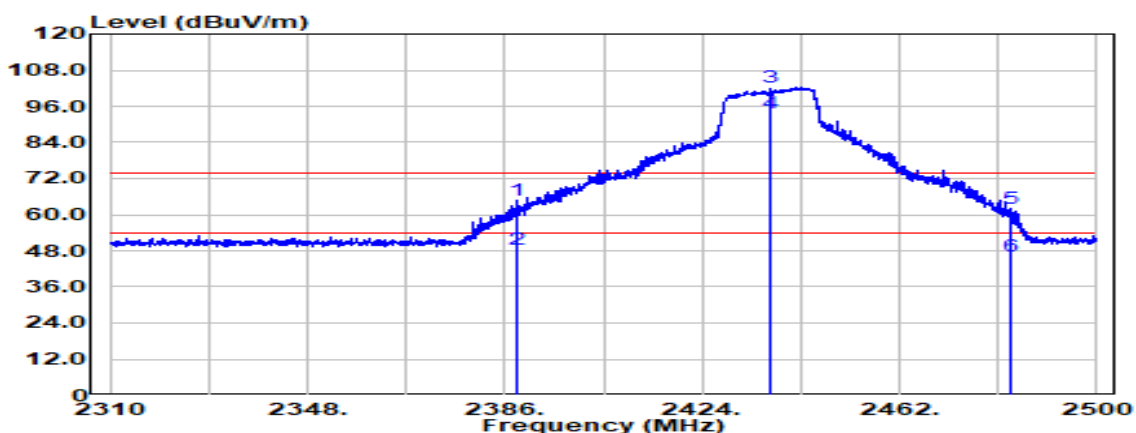
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2389.800	Peak	53.57	12.48	66.05	74.00	-7.95
2389.800	Average	36.72	12.48	49.20	54.00	-4.80
2412.000	Peak	82.86	12.61	95.46	--	--
2412.000	Average	74.16	12.61	86.77	--	--
2494.680	Peak	39.95	13.15	53.11	74.00	-20.89
2494.680	Average	28.76	13.15	41.92	54.00	-12.08

Test Mode	IEEE 802.11n HT20 / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



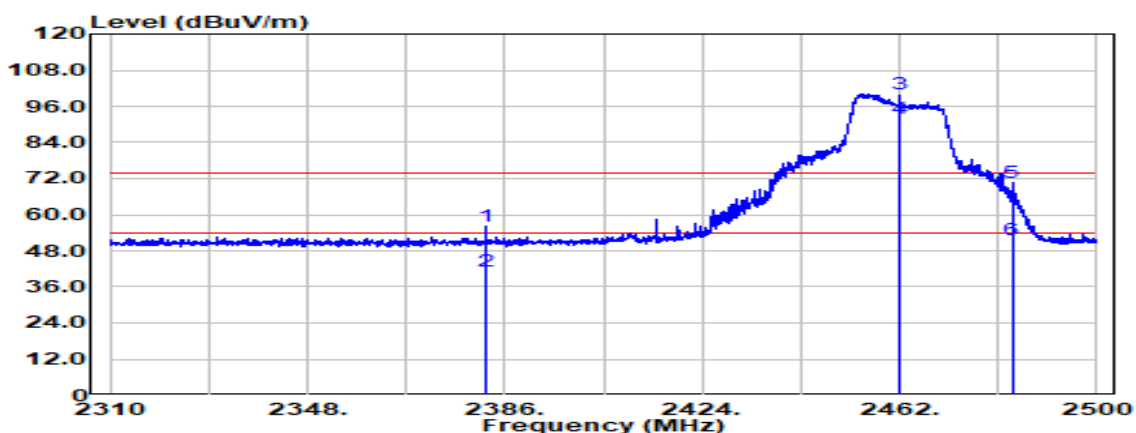
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2389.040	Peak	53.38	12.48	65.86	74.00	-8.14
2389.040	Average	38.26	12.48	50.73	54.00	-3.27
2437.000	Peak	93.29	12.77	106.05	--	--
2437.000	Average	84.90	12.77	97.67	--	--
2484.230	Peak	50.65	13.08	63.74	74.00	-10.26
2484.230	Average	35.59	13.08	48.67	54.00	-5.33

Test Mode	IEEE 802.11n HT20 / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



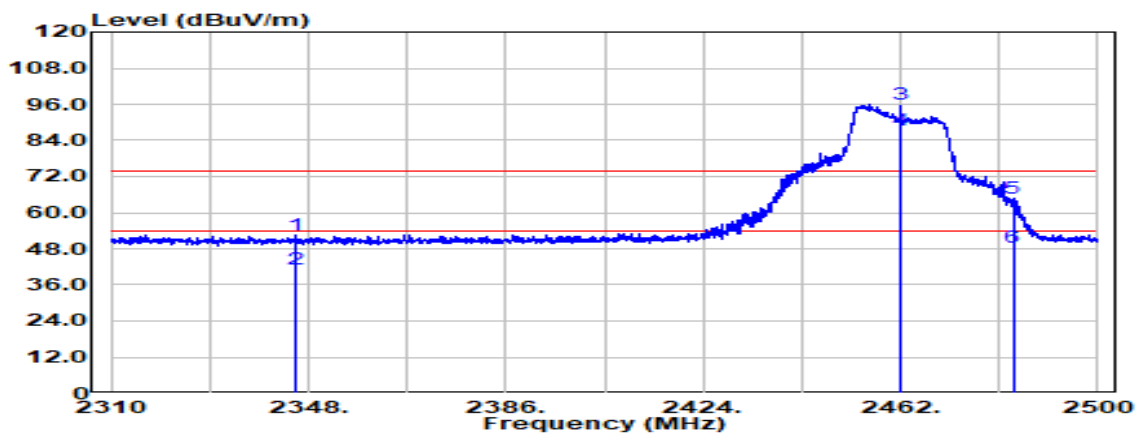
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dB $\mu$ V)	Factor (dB)	Actual FS (dB $\mu$ V/m)	Limit @3m (dB $\mu$ V/m)	Margin (dB)
2388.470	Peak	52.22	12.47	64.69	74.00	-9.31
2388.470	Average	35.95	12.47	48.42	54.00	-5.58
2437.000	Peak	89.64	12.77	102.41	--	--
2437.000	Average	81.03	12.77	93.80	--	--
2483.565	Peak	48.82	13.08	61.90	74.00	-12.10
2483.565	Average	33.24	13.08	46.32	54.00	-7.68

Test Mode	IEEE 802.11n HT20 / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
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)
2382.200	Peak	43.84	12.44	56.28	74.00	-17.72
2382.200	Average	28.97	12.44	41.41	54.00	-12.59
2462.000	Peak	87.37	12.93	100.30	--	--
2462.000	Average	79.13	12.93	92.06	--	--
2483.660	Peak	57.52	13.08	70.60	74.00	-3.40
2483.660	Average	38.40	13.08	51.48	54.00	-2.52

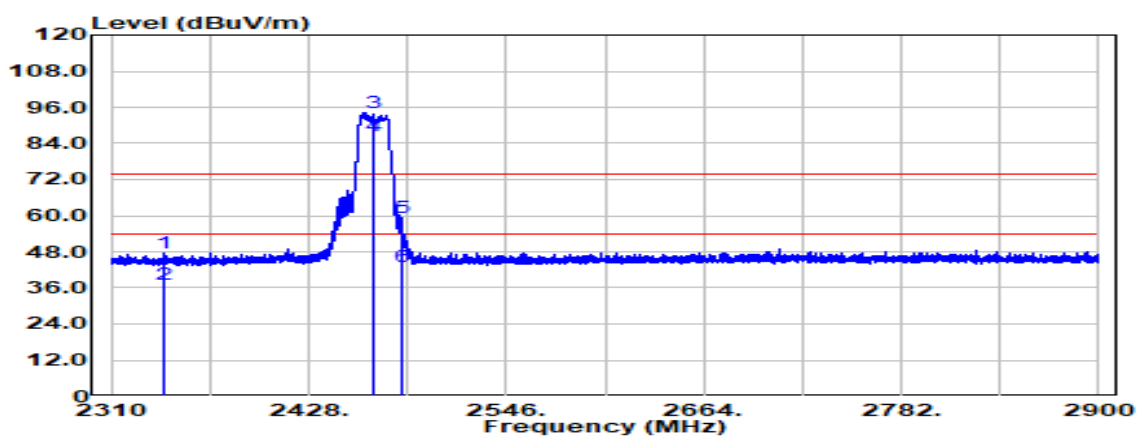
Test Mode	IEEE 802.11n HT20 / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Band Edge	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		



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)
2345.340	Peak	40.35	12.27	52.63	74.00	-21.37
2345.340	Average	29.05	12.27	41.32	54.00	-12.68
2462.000	Peak	82.84	12.93	95.77	--	--
2462.000	Average	74.60	12.93	87.53	--	--
2483.660	Peak	51.82	13.08	64.89	74.00	-9.11
2483.660	Average	35.36	13.08	48.44	54.00	-5.56



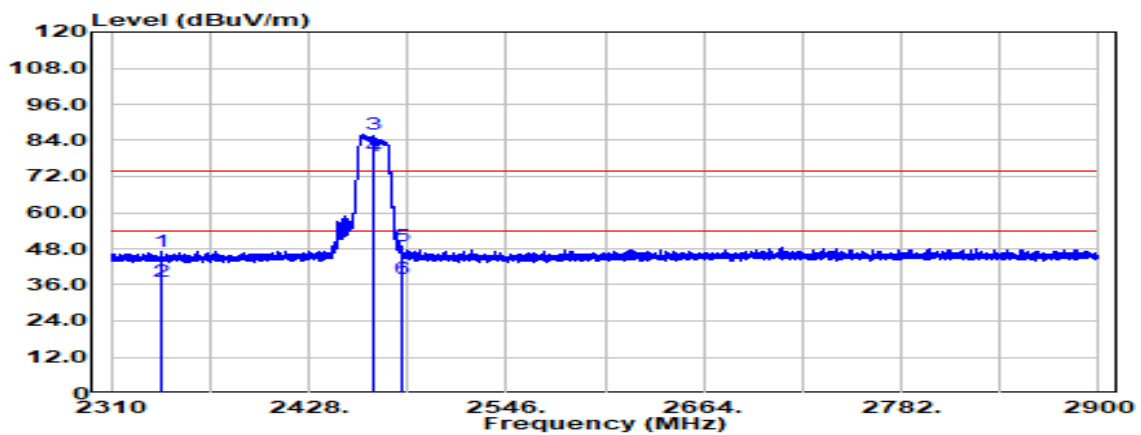
Test Mode	IEEE 802.11n HT20 / 2467 MHz	Temp/Hum	24.2(°C)/ 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2342.096	Peak	40.03	7.63	47.66	74.00	-26.34
2342.096	Average	29.51	7.63	37.14	54.00	-16.86
2467.000	Peak	85.80	8.18	93.99	--	--
2467.000	Average	78.29	8.18	86.47	--	--
2483.932	Peak	50.89	8.26	59.16	74.00	-14.84
2483.932	Average	34.92	8.26	43.19	54.00	-10.81

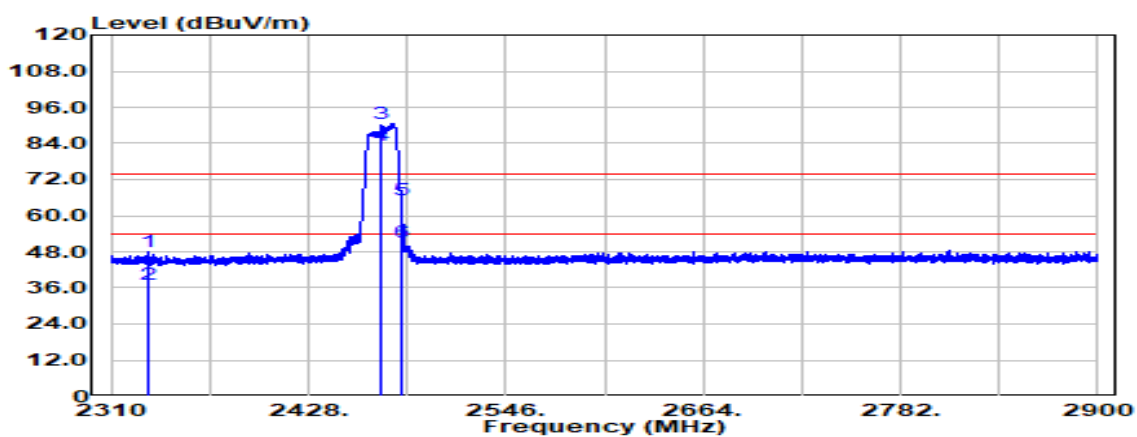
Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11n HT20 / 2467 MHz	Temp/Hum	24.2(°C)/ 63%RH
Test Item	Band Edge	Test Date	August 16, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
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)
2339.854	Peak	39.44	7.62	47.07	74.00	-26.93
2339.854	Average	29.45	7.62	37.07	54.00	-16.93
2467.000	Peak	77.71	8.18	85.89	--	--
2467.000	Average	70.73	8.18	78.91	--	--
2483.500	Peak	40.76	8.26	49.02	74.00	-24.98
2483.500	Average	29.78	8.26	38.04	54.00	-15.96

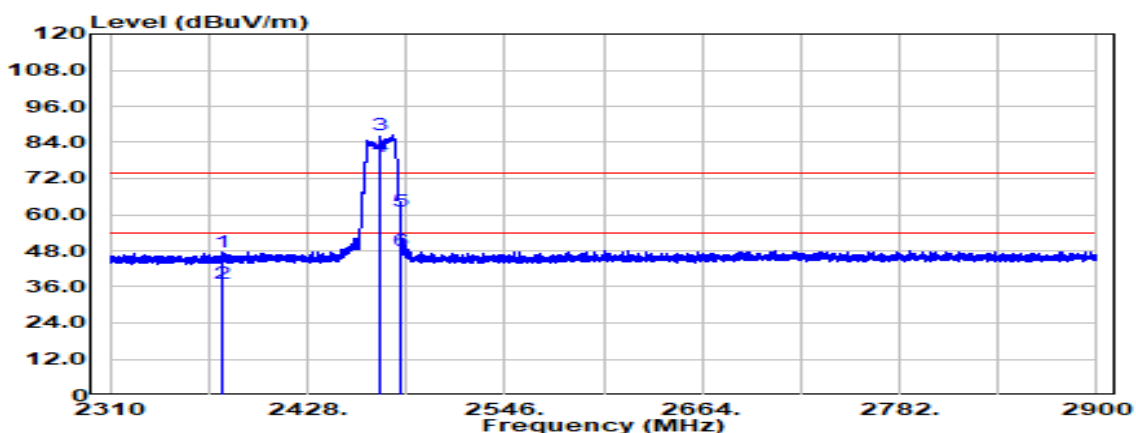
Test Mode	IEEE 802.11n HT20 / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
2332.302	Peak	40.36	7.61	47.97	74.00	-26.03
2332.302	Average	29.58	7.61	37.19	54.00	-16.81
2472.000	Peak	82.32	8.21	90.53	--	--
2472.000	Average	75.15	8.21	83.35	--	--
2483.500	Peak	56.96	8.26	65.22	74.00	-8.78
2483.500	Average	43.09	8.26	51.35	54.00	-2.65

Report No.: TMWK2205001728KR

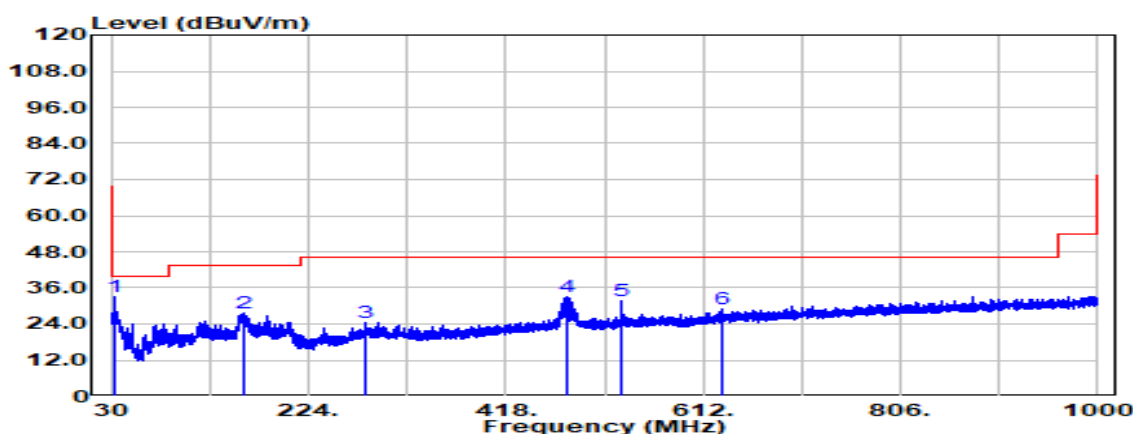
Test Mode	IEEE 802.11n HT20 / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Band Edge	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBUV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
2376.906	Peak	40.04	7.72	47.75	74.00	-26.25
2376.906	Average	29.49	7.72	37.21	54.00	-16.79
2472.000	Peak	78.15	8.21	86.36	--	--
2472.000	Average	70.93	8.21	79.13	--	--
2483.696	Peak	52.66	8.26	60.93	74.00	-13.07
2483.696	Average	39.56	8.26	47.82	54.00	-6.18

**Below 1G Test Data**

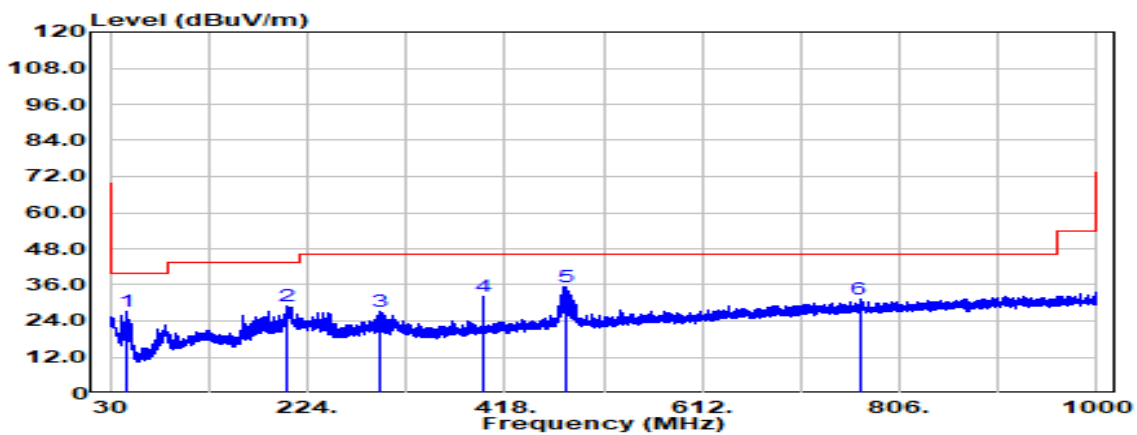
Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	25.4(°C) / 65%RH
Test Item	30MHz-1GHz	Test Date	May 19, 2022
Polarize	Vertical	Test Engineer	Tony Chao
Detector	Peak	EUT	Main source memory



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
32.668	Peak	38.13	-4.96	33.17	40.00	-6.83
160.223	Peak	38.62	-10.85	27.77	43.50	-15.73
279.533	Peak	33.59	-9.22	24.37	46.00	-21.63
477.898	Peak	37.03	-3.87	33.16	46.00	-12.84
531.611	Peak	34.84	-3.34	31.50	46.00	-14.50
631.521	Peak	30.26	-1.23	29.03	46.00	-16.97

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

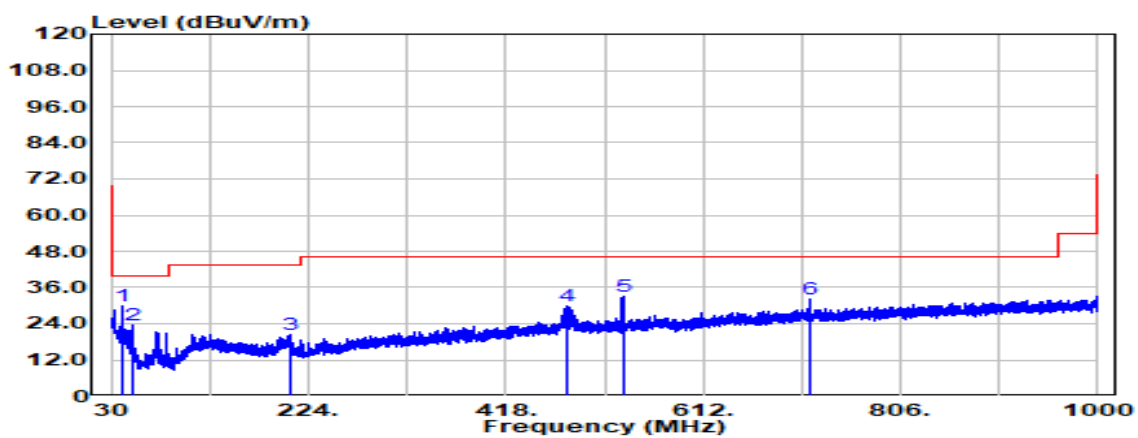
Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	25.4(°C)/ 65%RH
Test Item	30MHz-1GHz	Test Date	May 19, 2022
Polarize	Horizontal	Test Engineer	Tony Chao
Detector	Peak	EUT	Main source memory



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBµV/m)	Margin (dB)
47.096	Peak	41.59	-14.55	27.04	40.00	-12.96
204.236	Peak	40.62	-11.69	28.93	43.50	-14.57
295.780	Peak	36.26	-9.13	27.12	46.00	-18.88
396.054	Peak	38.89	-6.53	32.36	46.00	-13.64
479.231	Peak	39.26	-3.85	35.41	46.00	-10.59
766.594	Peak	30.82	0.49	31.31	46.00	-14.69

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

Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C) / 65%RH
Test Item	30MHz-1GHz	Test Date	May 26, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak	EUT	Second source memory

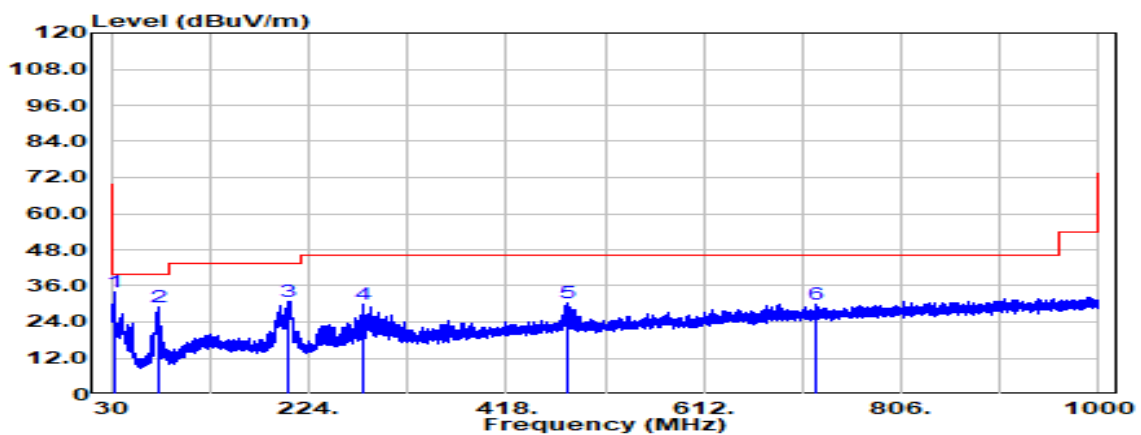


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
41.034	Peak	40.70	-10.90	29.80	40.00	-10.20
50.370	Peak	39.37	-15.63	23.73	40.00	-16.27
205.570	Peak	32.32	-12.03	20.29	43.50	-23.21
479.231	Peak	33.87	-3.85	30.03	46.00	-15.97
533.188	Peak	36.39	-3.32	33.06	46.00	-12.94
717.973	Peak	32.20	-0.19	32.01	46.00	-13.99

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

Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C)/ 65%RH
Test Item	30MHz-1GHz	Test Date	May 26, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak	EUT	Second source memory



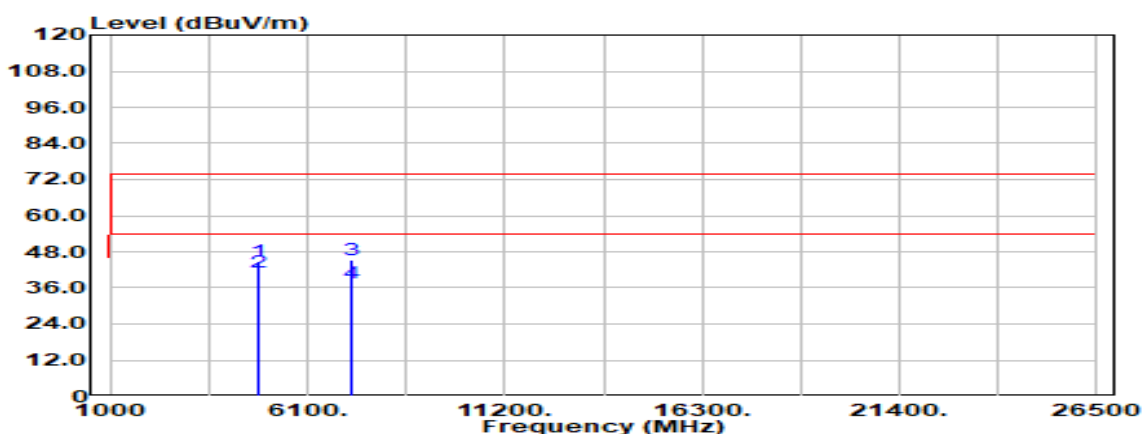
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
32.789	Peak	39.16	-5.09	34.07	40.00	-5.93
75.590	Peak	44.45	-15.54	28.91	40.00	-11.09
203.994	Peak	42.28	-11.59	30.69	43.50	-12.81
278.199	Peak	39.09	-9.23	29.86	46.00	-16.14
477.898	Peak	34.04	-3.87	30.17	46.00	-15.83
721.974	Peak	30.00	-0.12	29.89	46.00	-16.11

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



**Above 1G Test Data**

Test Mode	IEEE 802.11b / 2412 MHz	Temp/Hum	23.9(°C)/ 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



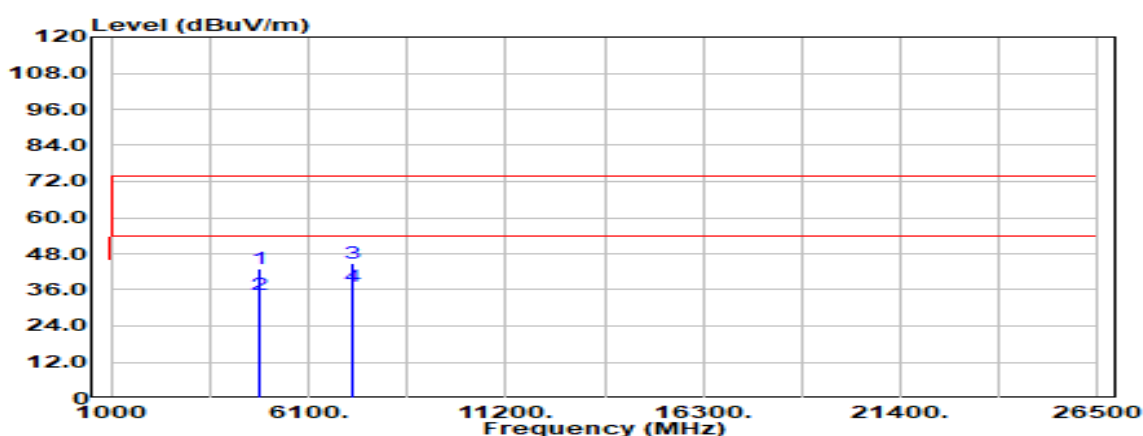
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBUV/m)	Limit @3m (dBUV/m)	Margin (dB)
4824.000	Peak	35.35	9.53	44.88	74.00	-29.12
4824.000	Average	31.53	9.53	41.06	54.00	-12.94
7236.000	Peak	31.66	13.41	45.07	74.00	-28.93
7236.000	Average	24.04	13.41	37.45	54.00	-16.55
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11b / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

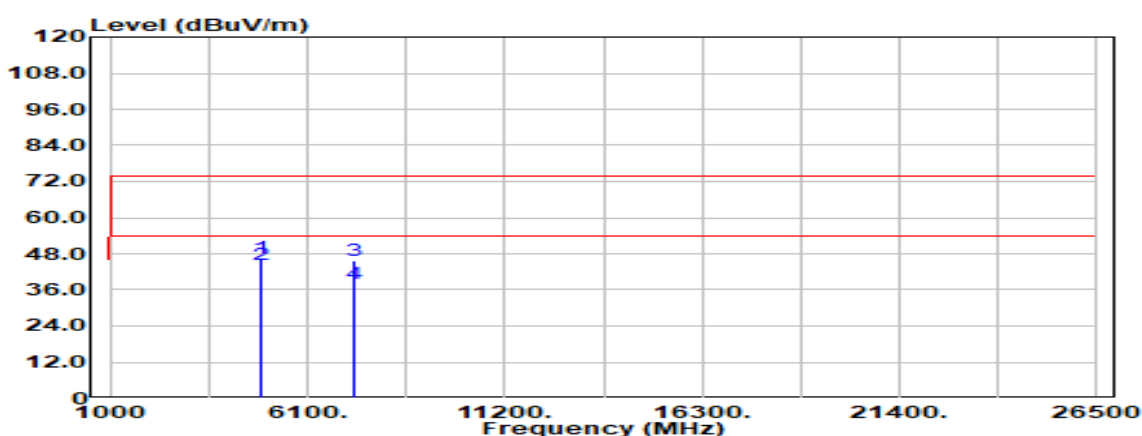


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.000	Peak	33.70	9.53	43.22	74.00	-30.78
4824.000	Average	25.11	9.53	34.64	54.00	-19.36
7236.000	Peak	31.60	13.41	45.01	74.00	-28.99
7236.000	Average	23.75	13.41	37.16	54.00	-16.84
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

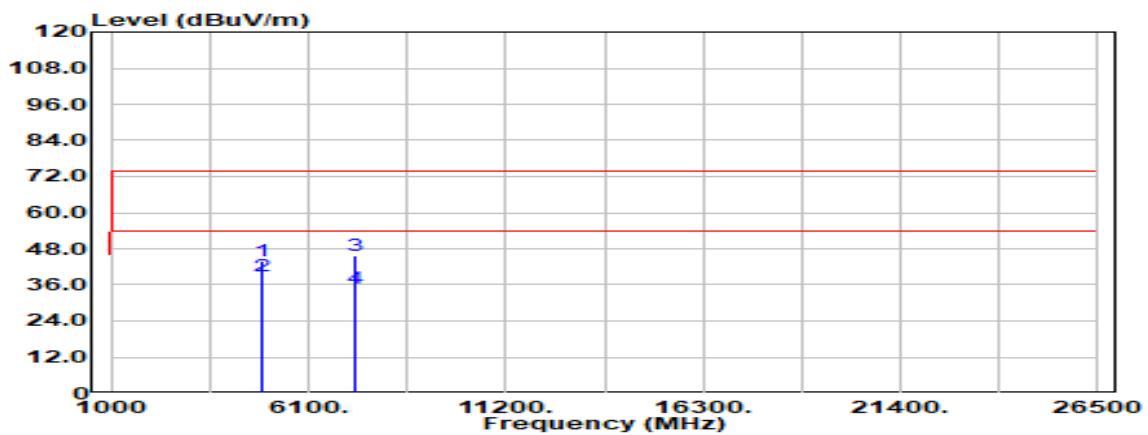


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	37.07	9.60	46.66	74.00	-27.34
4874.000	Average	34.59	9.60	44.18	54.00	-9.82
7311.000	Peak	32.39	13.23	45.62	74.00	-28.38
7311.000	Average	24.79	13.23	38.03	54.00	-15.97
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

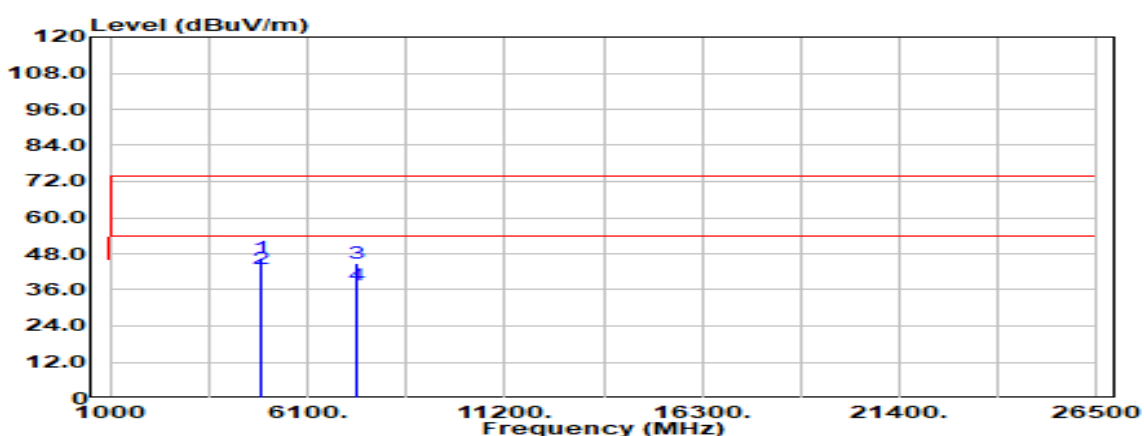


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	34.55	9.60	44.14	74.00	-29.86
4874.000	Average	29.31	9.60	38.91	54.00	-15.09
7311.000	Peak	32.37	13.23	45.61	74.00	-28.39
7311.000	Average	21.68	13.23	34.91	54.00	-19.09
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



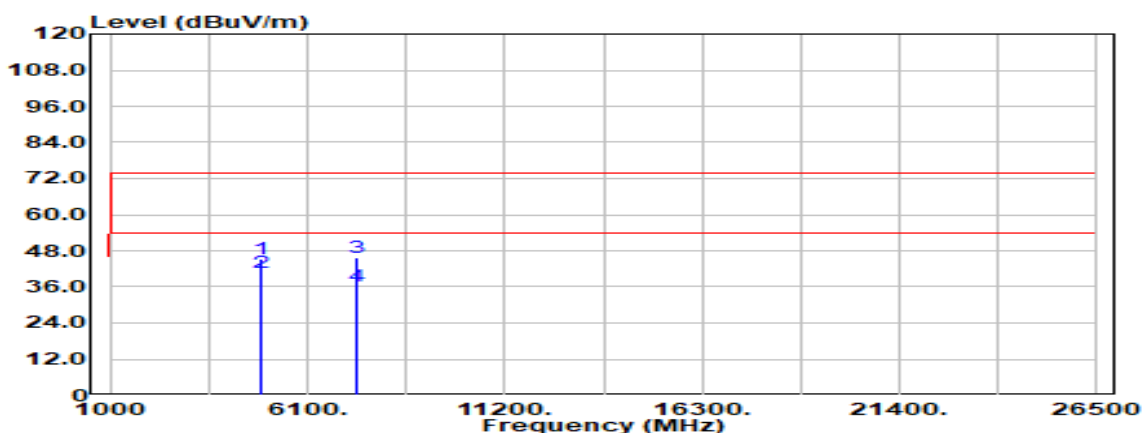
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	36.85	9.63	46.48	74.00	-27.52
4924.000	Average	33.38	9.63	43.00	54.00	-11.00
7386.000	Peak	31.31	13.43	44.74	74.00	-29.26
7386.000	Average	24.15	13.43	37.58	54.00	-16.42
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11b / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

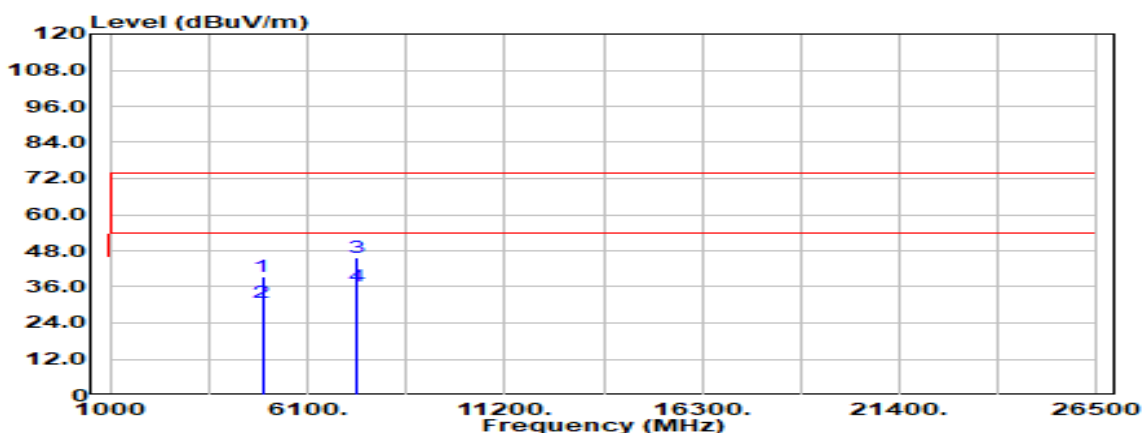


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	35.82	9.63	45.45	74.00	-28.55
4924.000	Average	31.28	9.63	40.91	54.00	-13.09
7386.000	Peak	32.19	13.43	45.62	74.00	-28.38
7386.000	Average	22.73	13.43	36.16	54.00	-17.84
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2467 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

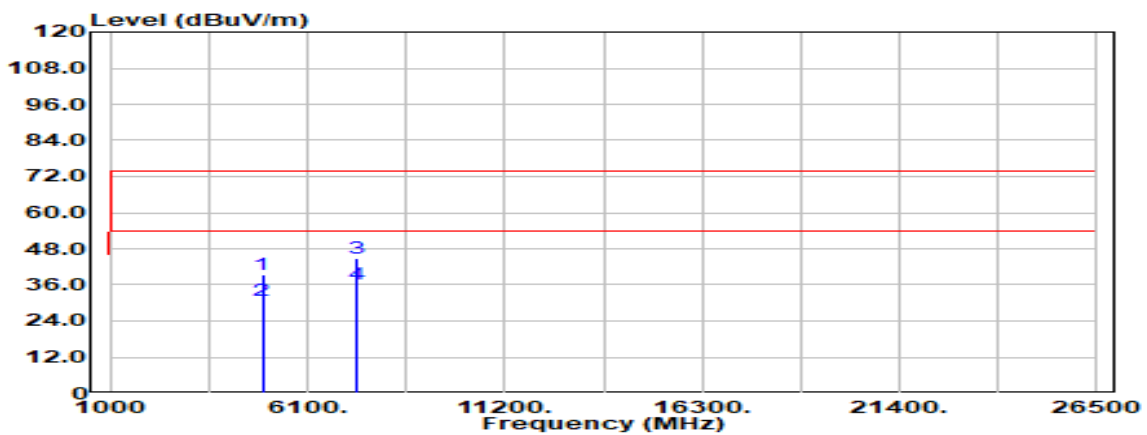


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4934.000	Peak	32.73	6.64	39.38	74.00	-34.62
4934.000	Average	24.05	6.64	30.70	54.00	-23.30
7401.000	Peak	32.43	13.30	45.73	74.00	-28.27
7401.000	Average	22.89	13.30	36.19	54.00	-17.81
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2467 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



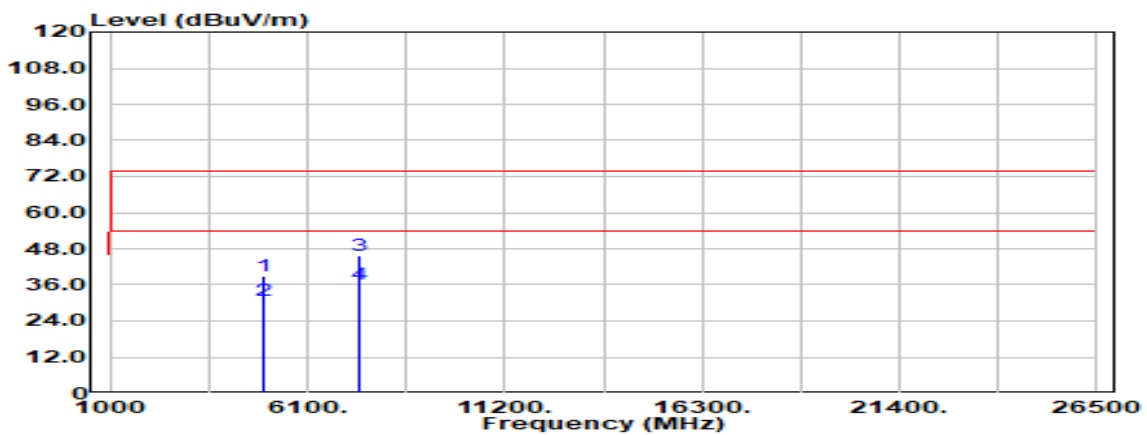
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4934.000	Peak	32.58	6.64	39.23	74.00	-34.77
4934.000	Average	24.04	6.64	30.68	54.00	-23.32
7401.000	Peak	31.58	13.30	44.87	74.00	-29.13
7401.000	Average	23.02	13.30	36.32	54.00	-17.68
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Test Mode	IEEE 802.11b / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

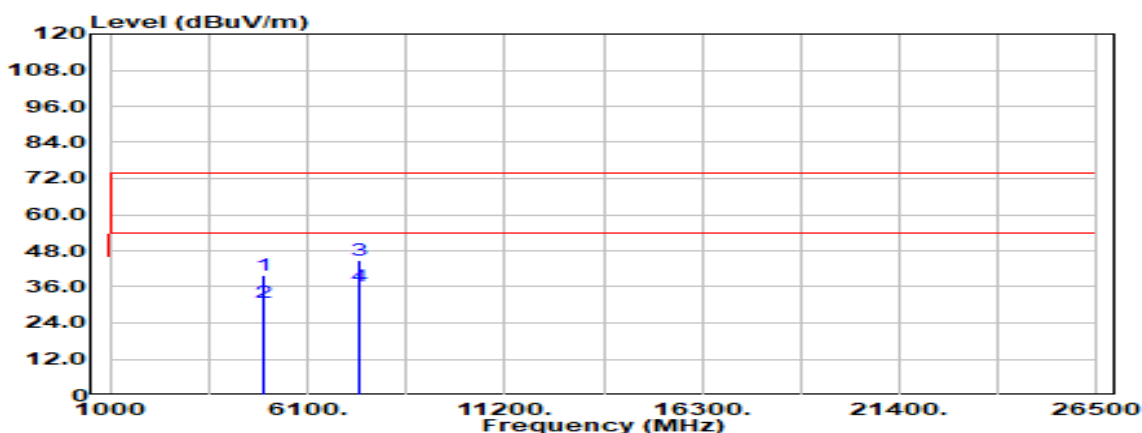


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4944.000	Peak	32.36	6.76	39.12	74.00	-34.88
4944.000	Average	23.90	6.76	30.66	54.00	-23.34
7416.000	Peak	32.24	13.27	45.51	74.00	-28.49
7416.000	Average	23.12	13.27	36.39	54.00	-17.61
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11b / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

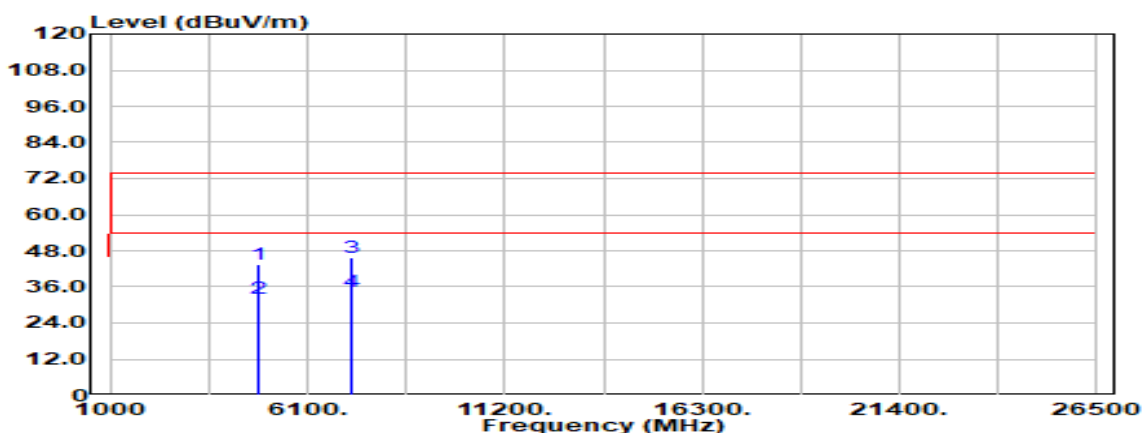


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4944.000	Peak	32.91	6.76	39.67	74.00	-34.33
4944.000	Average	23.95	6.76	30.71	54.00	-23.29
7416.000	Peak	31.53	13.27	44.80	74.00	-29.20
7416.000	Average	22.99	13.27	36.26	54.00	-17.74
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

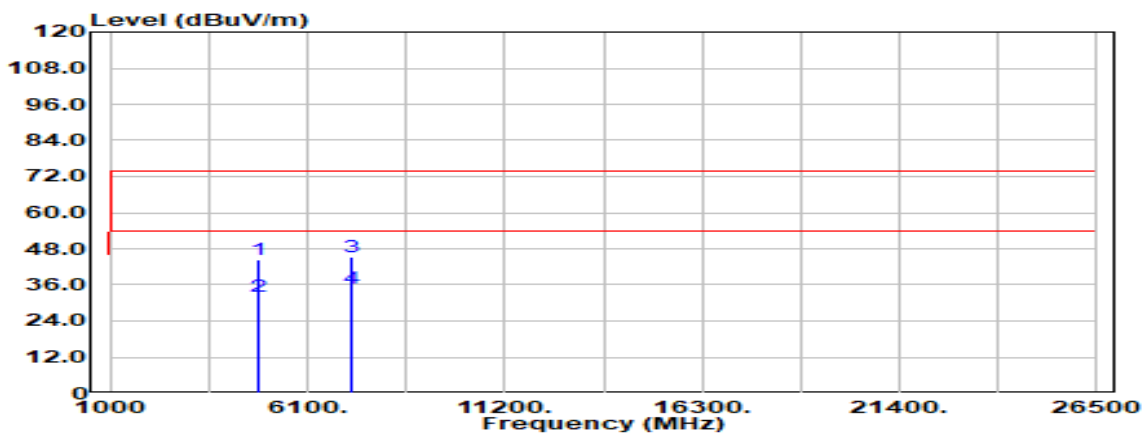


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.000	Peak	34.10	9.53	43.62	74.00	-30.38
4824.000	Average	22.85	9.53	32.37	54.00	-21.63
7236.000	Peak	32.49	13.41	45.89	74.00	-28.11
7236.000	Average	21.11	13.41	34.52	54.00	-19.48
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

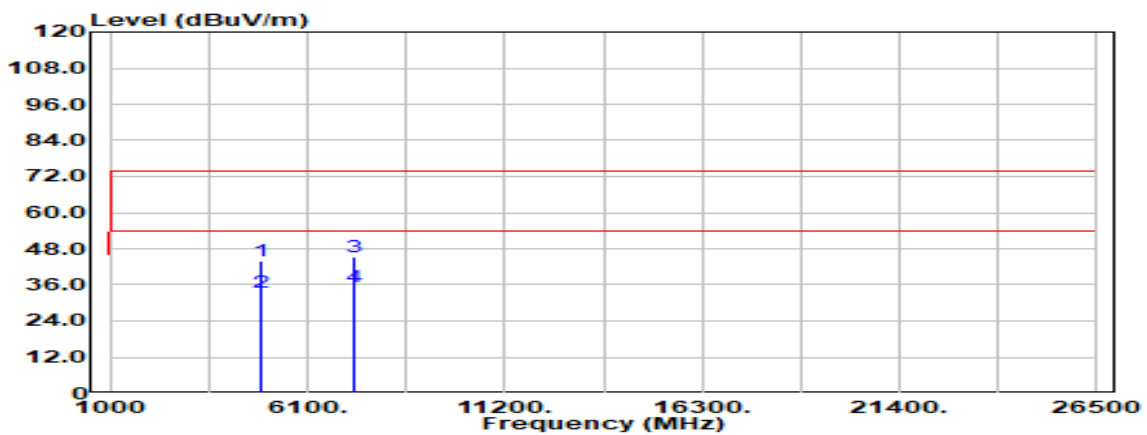


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.000	Peak	34.93	9.53	44.45	74.00	-29.55
4824.000	Average	22.85	9.53	32.37	54.00	-21.63
7236.000	Peak	32.08	13.41	45.48	74.00	-28.52
7236.000	Average	21.35	13.41	34.76	54.00	-19.24
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

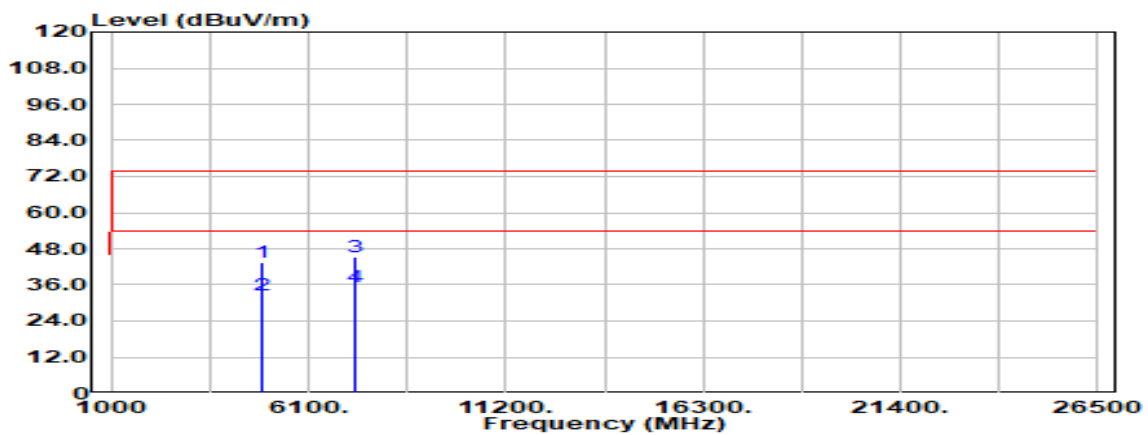


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.000	Peak	34.29	9.60	43.88	74.00	-30.12
4874.000	Average	23.73	9.60	33.33	54.00	-20.67
7311.000	Peak	32.25	13.23	45.49	74.00	-28.51
7311.000	Average	21.89	13.23	35.12	54.00	-18.88
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

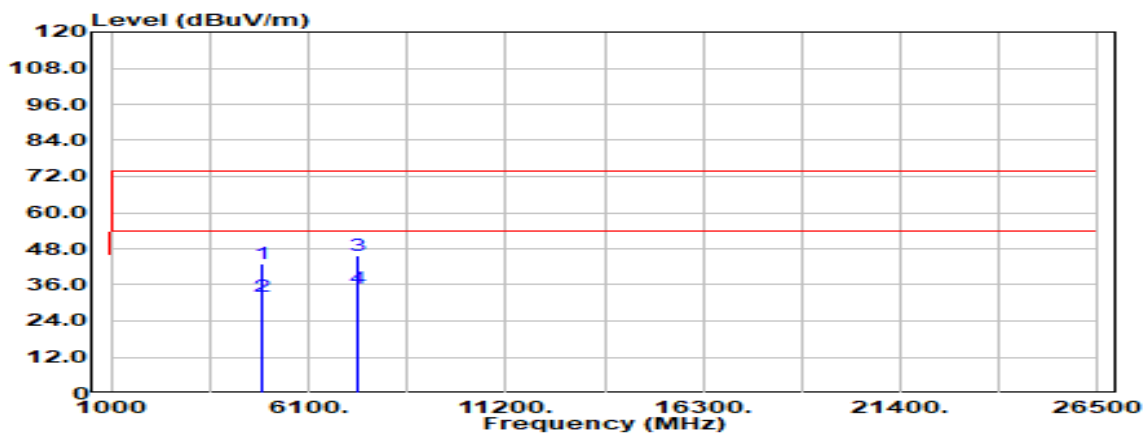


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4874.000	Peak	34.01	9.60	43.61	74.00	-30.39
4874.000	Average	23.16	9.60	32.76	54.00	-21.24
7311.000	Peak	32.10	13.23	45.33	74.00	-28.67
7311.000	Average	21.96	13.23	35.19	54.00	-18.81
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

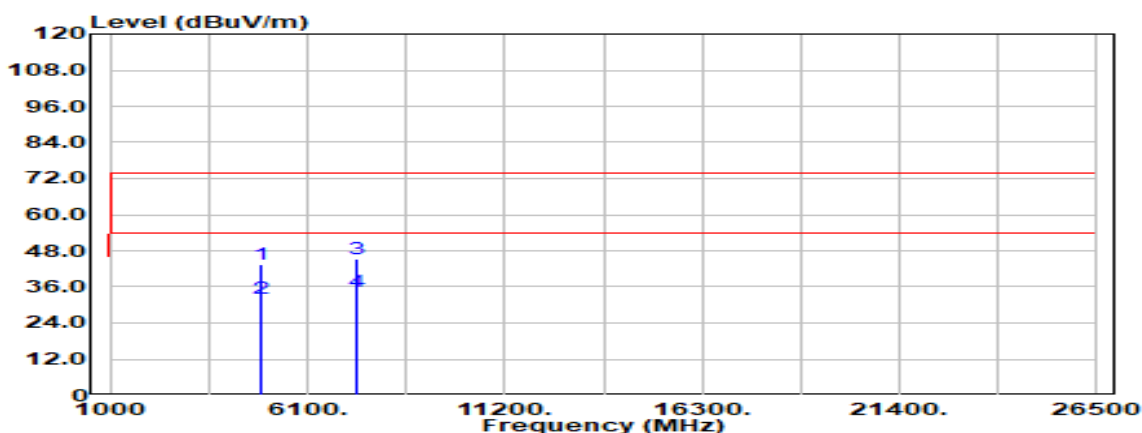


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	33.36	9.63	42.99	74.00	-31.01
4924.000	Average	22.68	9.63	32.31	54.00	-21.69
7386.000	Peak	32.12	13.43	45.55	74.00	-28.45
7386.000	Average	21.25	13.43	34.68	54.00	-19.32
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



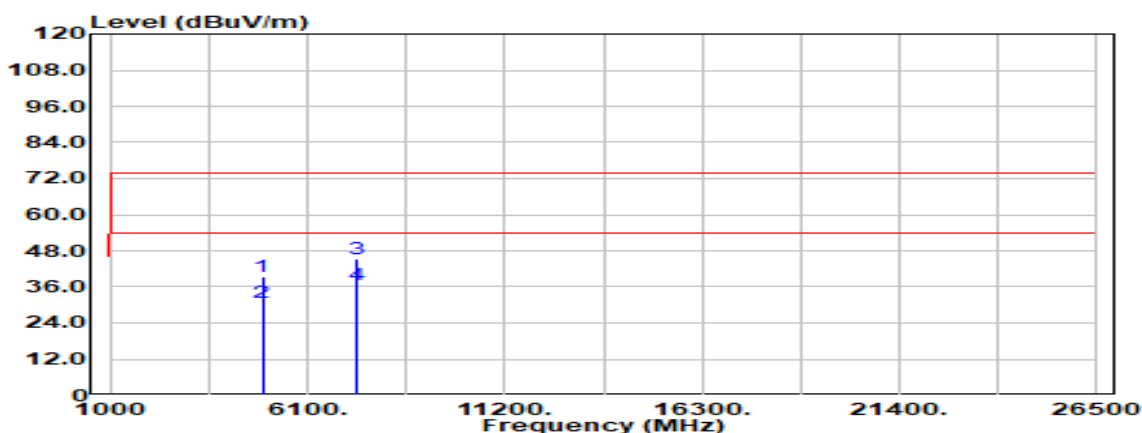
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	33.79	9.63	43.42	74.00	-30.58
4924.000	Average	22.56	9.63	32.19	54.00	-21.81
7386.000	Peak	31.85	13.43	45.28	74.00	-28.72
7386.000	Average	21.10	13.43	34.53	54.00	-19.47
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Test Mode	IEEE 802.11g / 2467 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

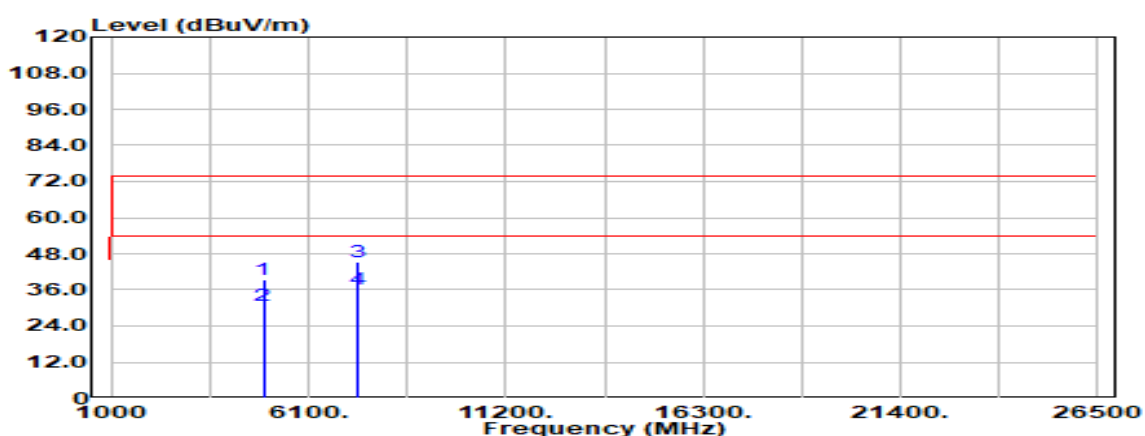


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4934.000	Peak	32.80	6.64	39.45	74.00	-34.55
4934.000	Average	24.19	6.64	30.83	54.00	-23.17
7401.000	Peak	31.86	13.30	45.16	74.00	-28.84
7401.000	Average	23.16	13.30	36.46	54.00	-17.54
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2467 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

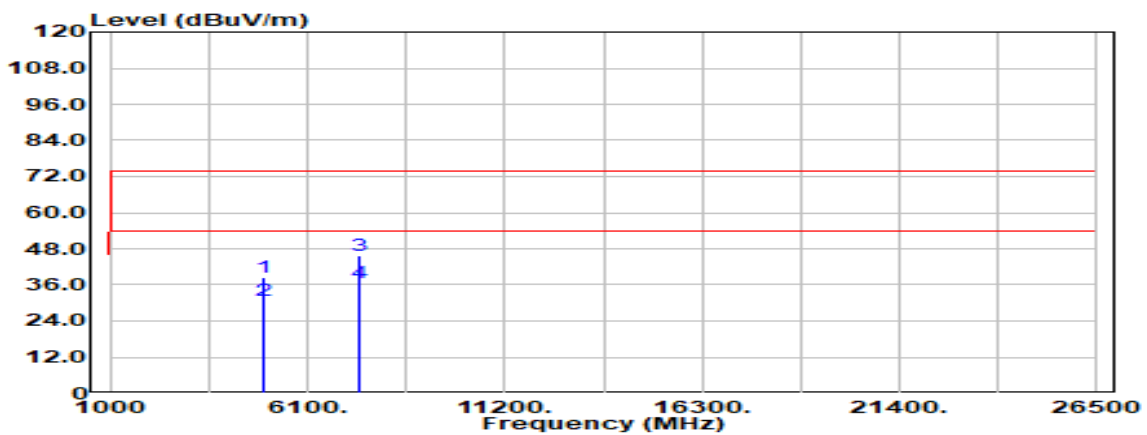


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4934.000	Peak	32.98	6.64	39.62	74.00	-34.38
4934.000	Average	24.13	6.64	30.77	54.00	-23.23
7401.000	Peak	32.07	13.30	45.37	74.00	-28.63
7401.000	Average	23.06	13.30	36.36	54.00	-17.64
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11g / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



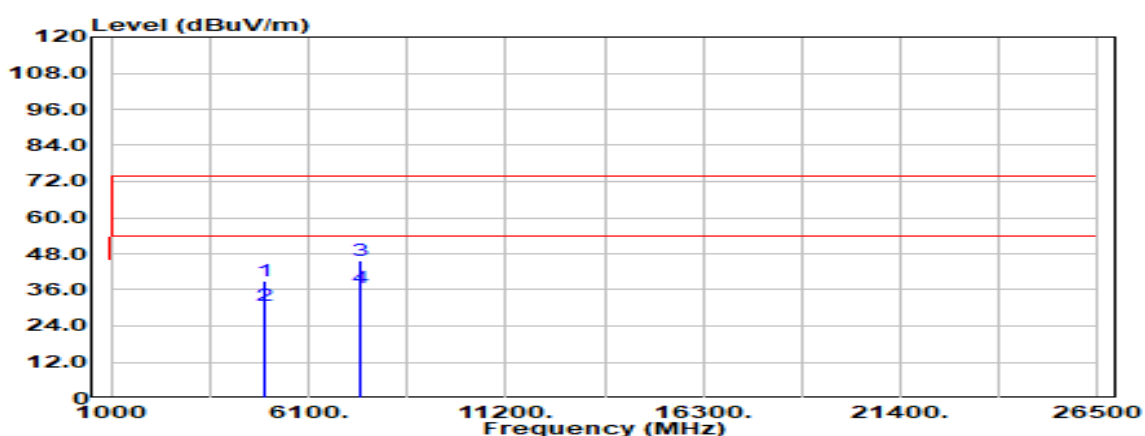
Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4944.000	Peak	31.93	6.76	38.69	74.00	-35.31
4944.000	Average	23.91	6.76	30.67	54.00	-23.33
7416.000	Peak	32.46	13.27	45.73	74.00	-28.27
7416.000	Average	23.24	13.27	36.51	54.00	-17.49
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11g / 2472 MHz	Temp/Hum	25.2(°C) / 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

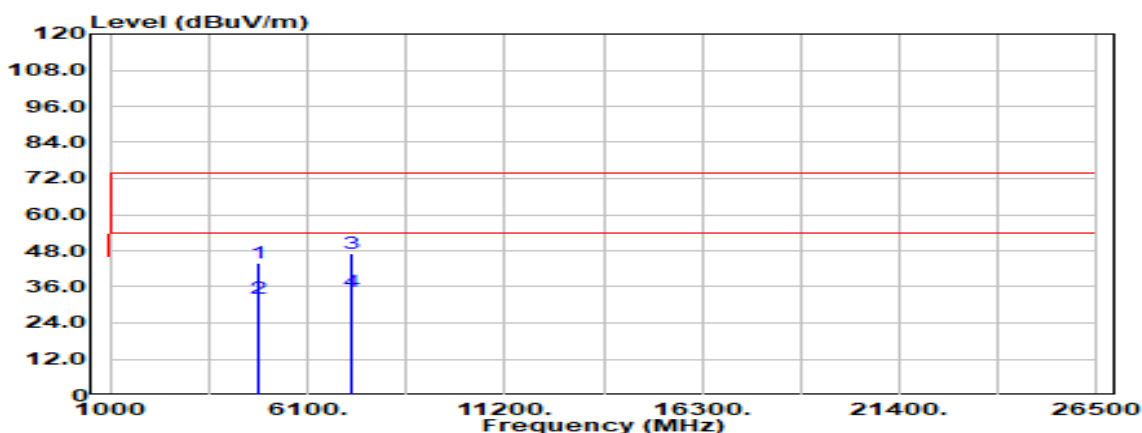


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4944.000	Peak	32.04	6.76	38.80	74.00	-35.20
4944.000	Average	24.03	6.76	30.79	54.00	-23.21
7416.000	Peak	32.47	13.27	45.74	74.00	-28.26
7416.000	Average	23.20	13.27	36.46	54.00	-17.54
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2412 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

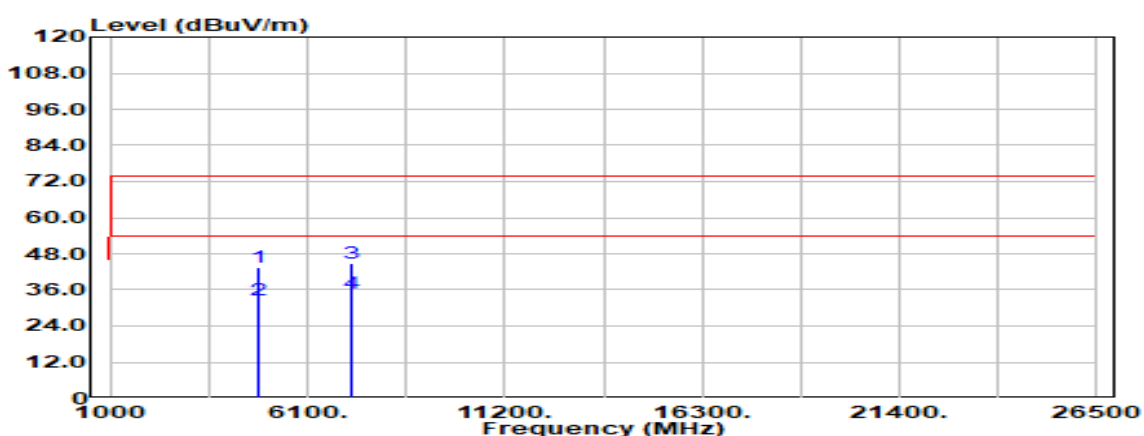


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.000	Peak	34.20	9.53	43.73	74.00	-30.27
4824.000	Average	22.76	9.53	32.29	54.00	-21.71
7236.000	Peak	33.51	13.41	46.92	74.00	-27.08
7236.000	Average	21.18	13.41	34.59	54.00	-19.41
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2412 MHz	Temp/Hum	23.9(°C)/ 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

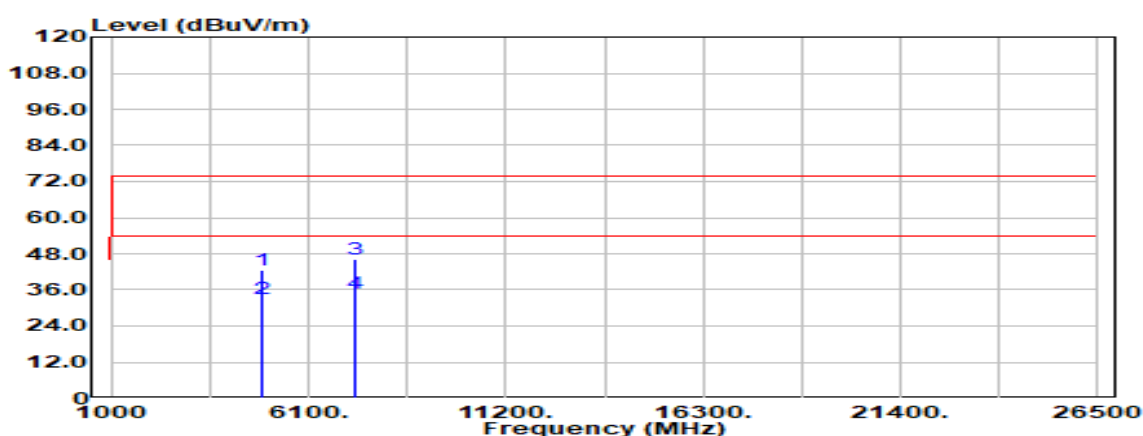


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4824.000	Peak	33.98	9.53	43.50	74.00	-30.50
4824.000	Average	22.90	9.53	32.43	54.00	-21.57
7236.000	Peak	31.50	13.41	44.91	74.00	-29.09
7236.000	Average	21.35	13.41	34.76	54.00	-19.24
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

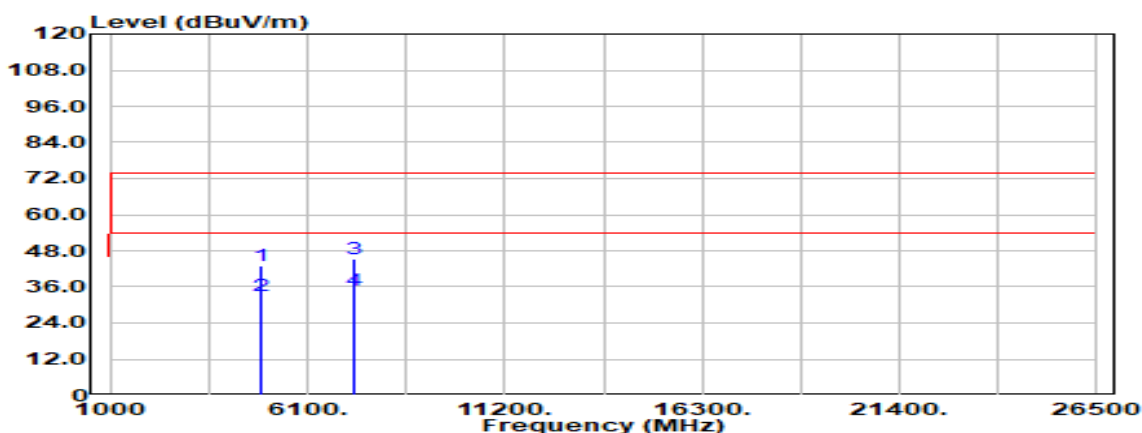


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.000	Peak	33.19	9.60	42.78	74.00	-31.22
4874.000	Average	23.24	9.60	32.83	54.00	-21.17
7311.000	Peak	32.88	13.23	46.12	74.00	-27.88
7311.000	Average	21.61	13.23	34.84	54.00	-19.16
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2437 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.000	Peak	33.47	9.60	43.07	74.00	-30.93
4874.000	Average	23.24	9.60	32.84	54.00	-21.16
7311.000	Peak	32.17	13.23	45.40	74.00	-28.60
7311.000	Average	21.56	13.23	34.79	54.00	-19.21
N/A						

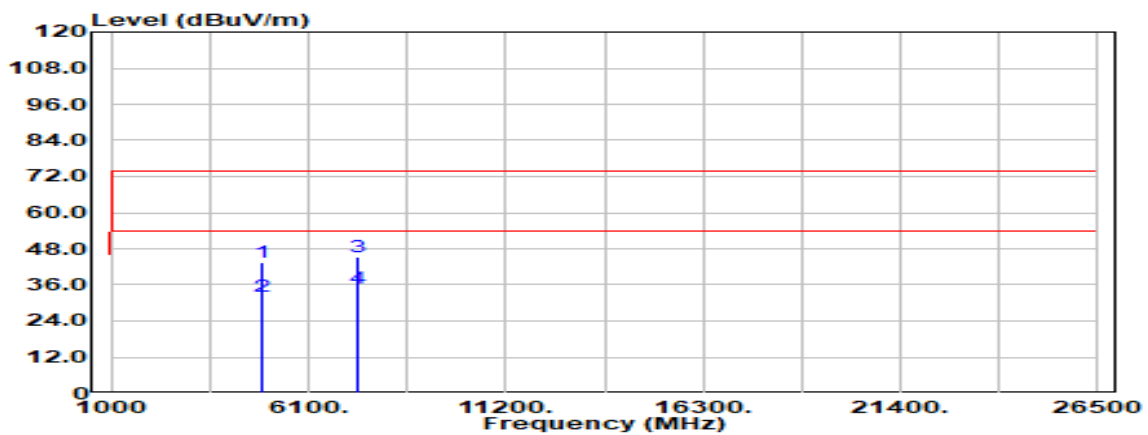
**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.



Report No.: TMWK2205001728KR

Test Mode	IEEE 802.11n HT20 / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

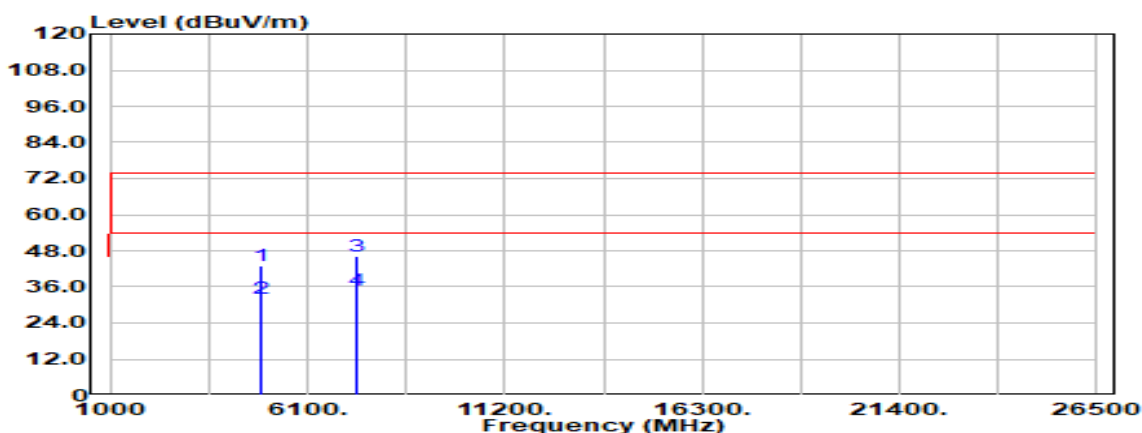


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.000	Peak	33.64	9.63	43.27	74.00	-30.73
4924.000	Average	22.68	9.63	32.31	54.00	-21.69
7386.000	Peak	31.86	13.43	45.29	74.00	-28.71
7386.000	Average	21.28	13.43	34.71	54.00	-19.29
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2462 MHz	Temp/Hum	23.9(°C) / 67%RH
Test Item	Harmonic	Test Date	May 18, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

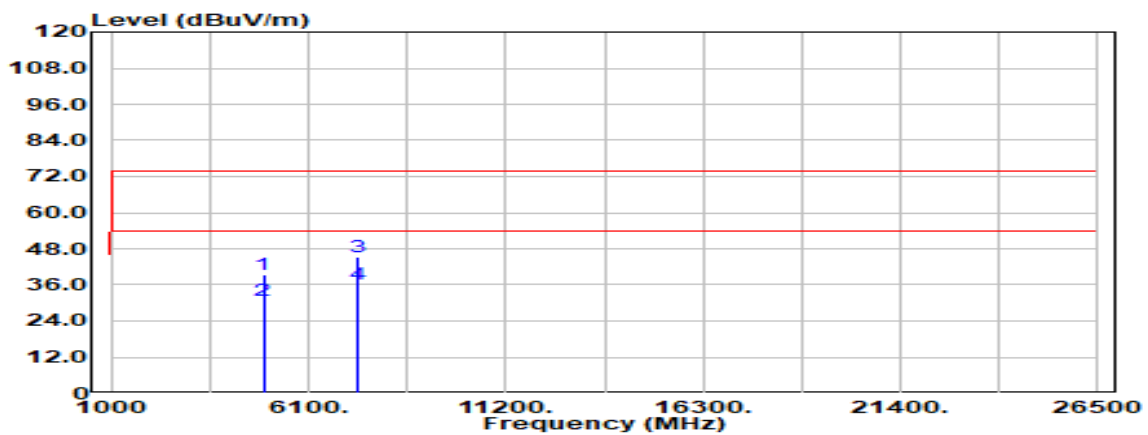


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4924.000	Peak	33.32	9.63	42.95	74.00	-31.05
4924.000	Average	22.65	9.63	32.28	54.00	-21.72
7386.000	Peak	32.97	13.43	46.40	74.00	-27.60
7386.000	Average	21.26	13.43	34.69	54.00	-19.31
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2467 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

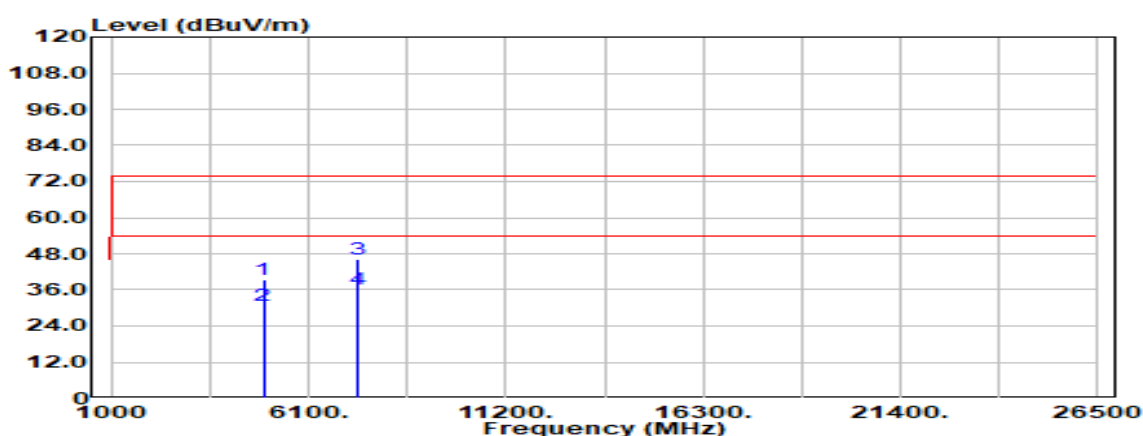


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4934.000	Peak	32.93	6.64	39.58	74.00	-34.42
4934.000	Average	24.10	6.64	30.75	54.00	-23.25
7401.000	Peak	31.97	13.30	45.27	74.00	-28.73
7401.000	Average	23.10	13.30	36.39	54.00	-17.61
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2467 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

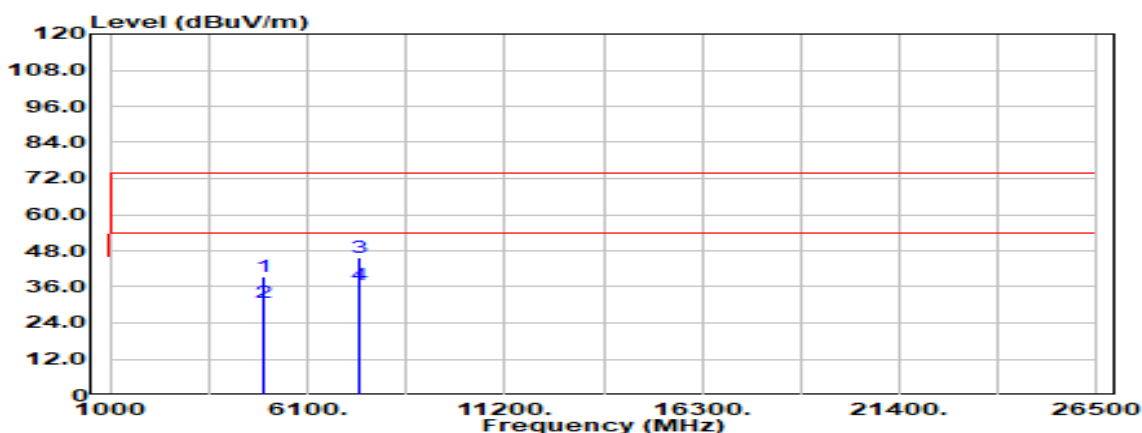


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4934.000	Peak	32.62	6.64	39.27	74.00	-34.73
4934.000	Average	24.05	6.64	30.69	54.00	-23.31
7401.000	Peak	32.70	13.30	45.99	74.00	-28.01
7401.000	Average	23.04	13.30	36.33	54.00	-17.67
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

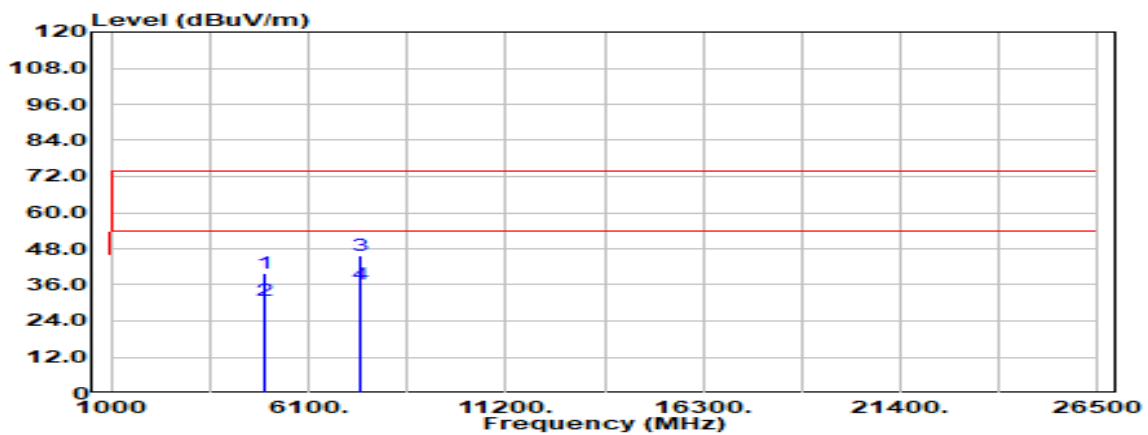


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4944.000	Peak	32.57	6.76	39.33	74.00	-34.67
4944.000	Average	23.91	6.76	30.67	54.00	-23.33
7416.000	Peak	32.26	13.27	45.53	74.00	-28.47
7416.000	Average	23.30	13.27	36.56	54.00	-17.44
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

Test Mode	IEEE 802.11n HT20 / 2472 MHz	Temp/Hum	25.2(°C)/ 64%RH
Test Item	Harmonic	Test Date	August 15, 2022
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		



Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBμV)	Factor (dB)	Actual FS (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)
4944.000	Peak	32.91	6.76	39.67	74.00	-34.33
4944.000	Average	23.82	6.76	30.58	54.00	-23.42
7416.000	Peak	32.39	13.27	45.66	74.00	-28.34
7416.000	Average	23.07	13.27	36.33	54.00	-17.67
N/A						

**Remark:**

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

- End of Test Report -