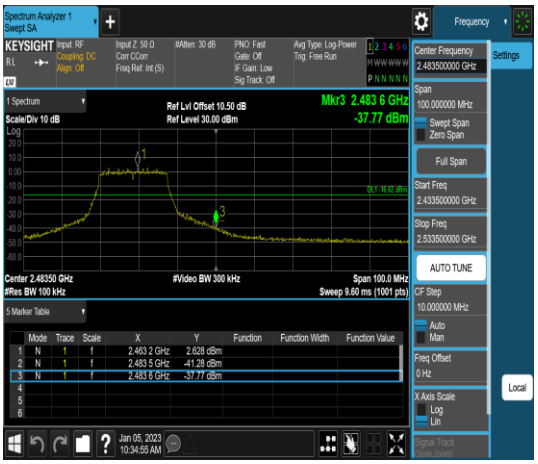
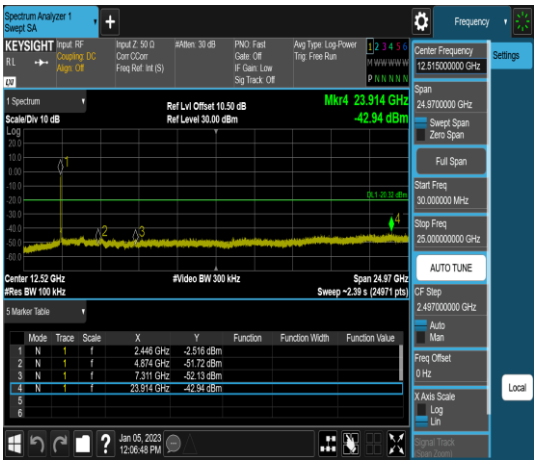
IEEE 802.11n HT20 mode High CH	
Reference Level	**Band Edge**
	
Spurious Emission 30MHz-25GHz	
	

IEEE 802.11n HT40 mode Low CH	
Reference Level	**Band Edge**
	
Spurious Emission 30MHz-25GHz	
	

IEEE 802.11n HT40 mode Mid CH	
Reference Level	**Spurious Emission 30MHz-25GHz**
	

IEEE 802.11n HT40 mode High CH	
Reference Level	**Band Edge**
	
Spurious Emission 30MHz-25GHz	
	

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

4.6.2 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 ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

(2) Above 1G：

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

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

˙If Duty Cycle ≥ 98%, VBW=10Hz.

˙If Duty Cycle < 98%, VBW=1/T.

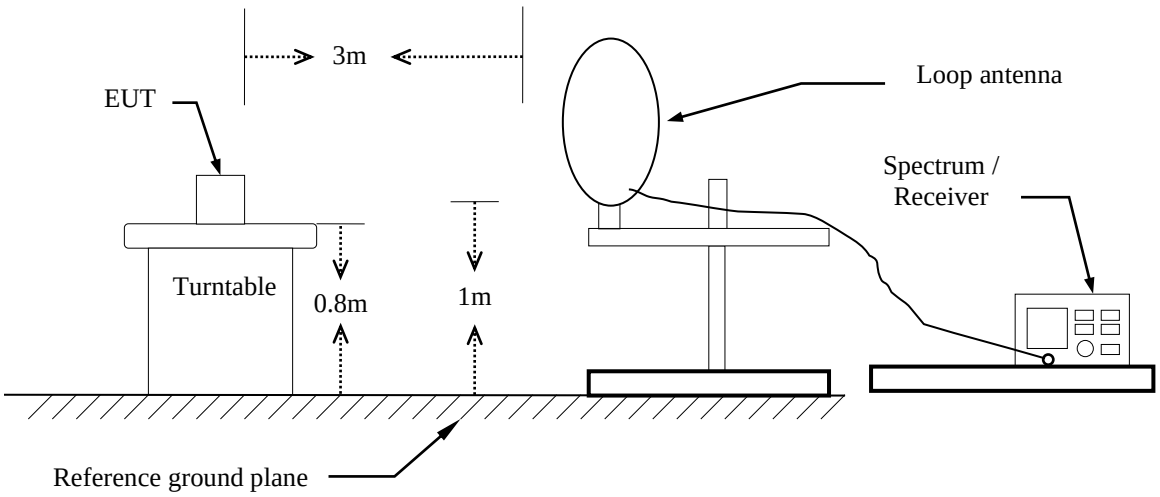
5. Data result：

Actual FS=Spectrum Reading Level + Factor

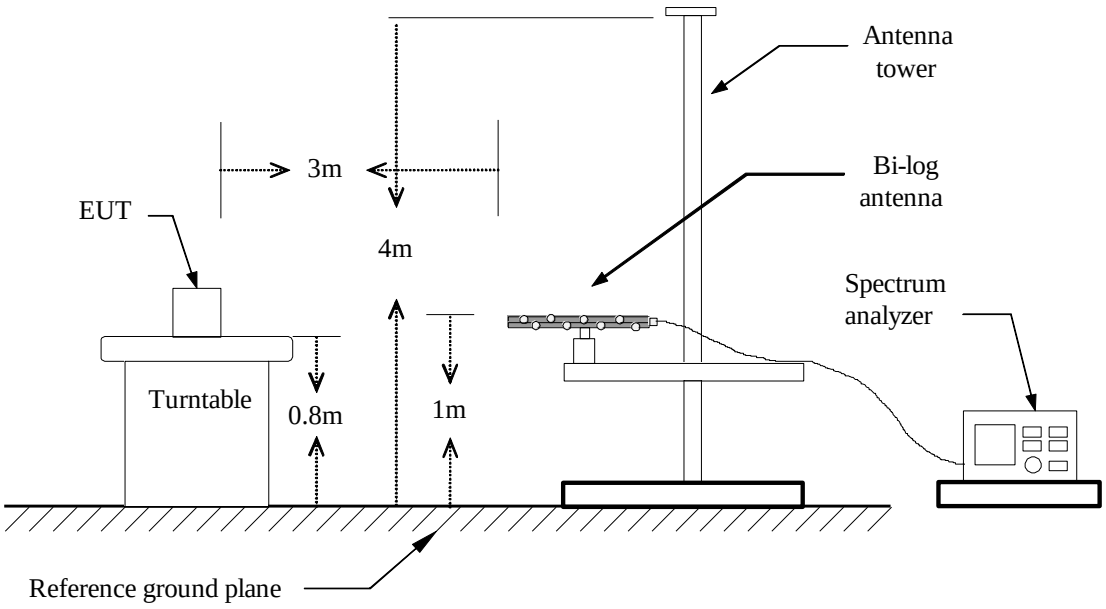
Margin=Actual FS- Limit

4.6.3 Test Setup

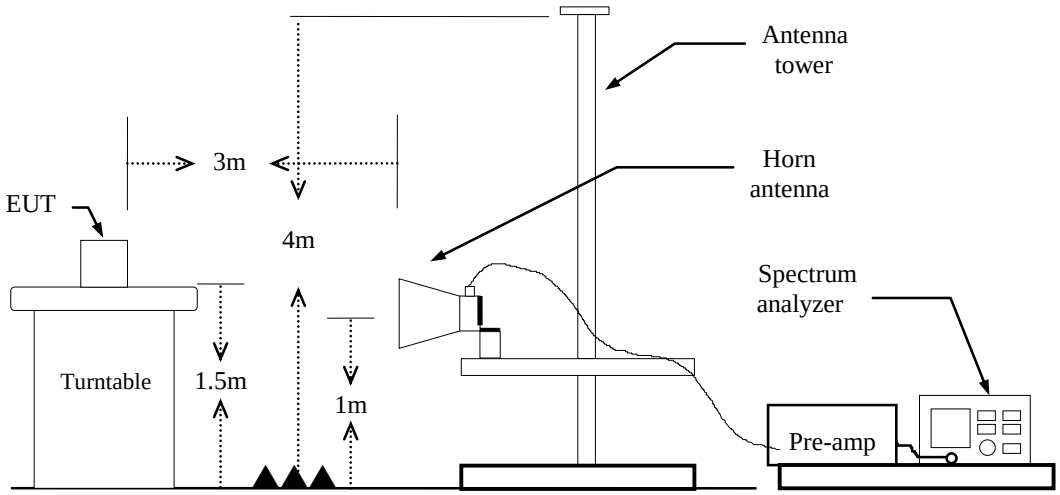
9kHz ~ 30MHz



30MHz ~ 1GHz



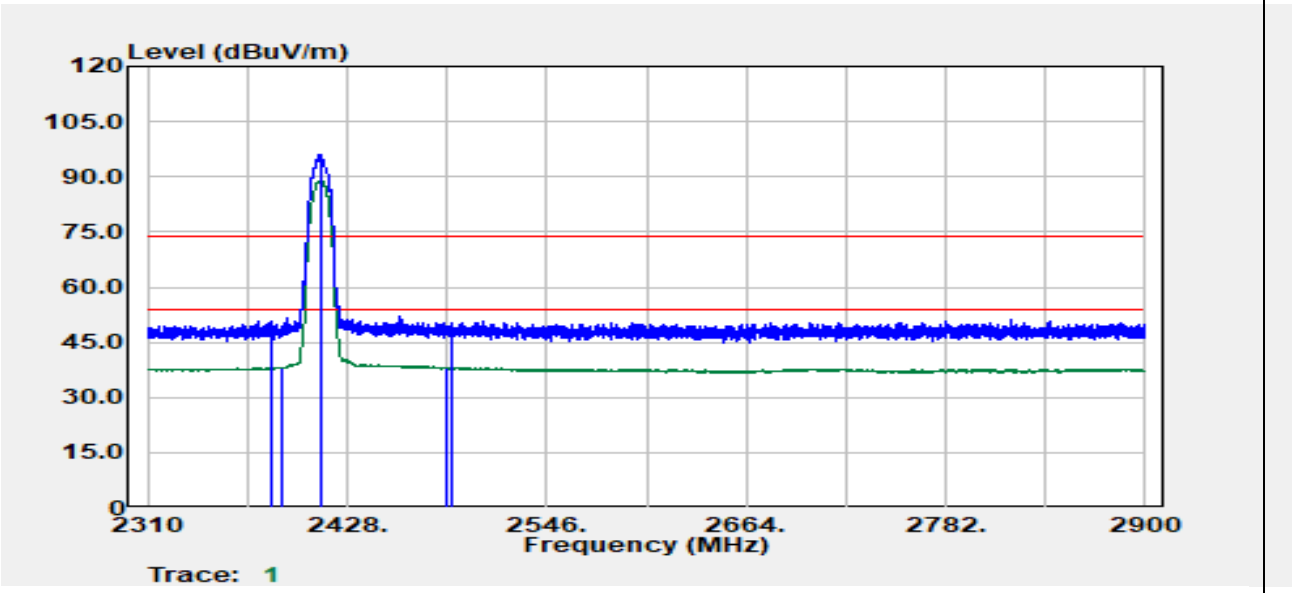
Above 1 GHz



4.6.4 Test Result

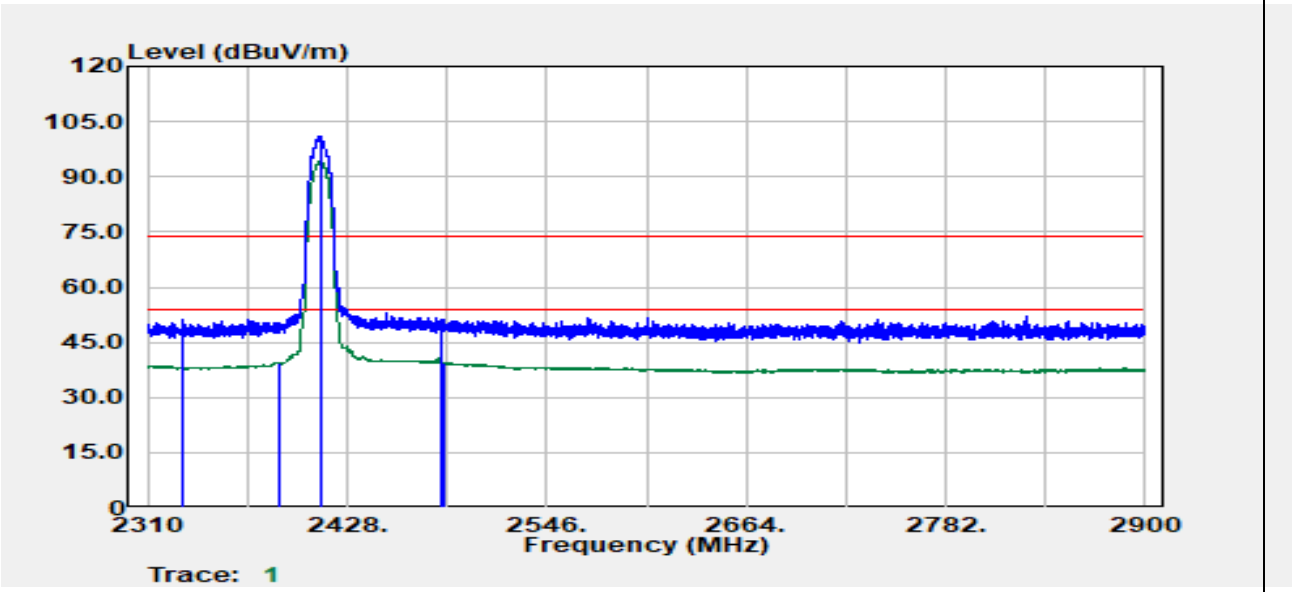
Band Edge Test Data

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



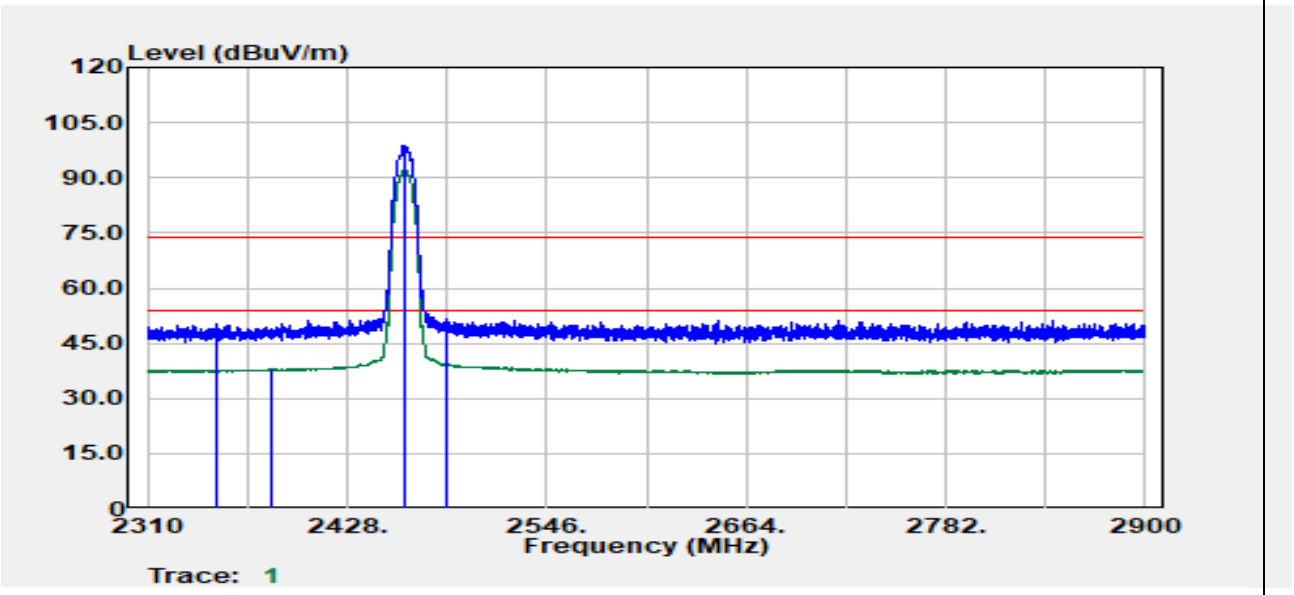
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2383.28	Peak	38.89	12.00	50.89	74.00	-23.11
2388.82	Average	26.09	12.05	38.15	54.00	-15.85
2412.00	Peak	83.72	12.22	95.94	- -	- -
2412.00	Average	76.78	12.22	89.00	- -	- -
2486.88	Average	25.64	12.58	38.22	54.00	-15.78
2489.71	Peak	37.81	12.59	50.40	74.00	-23.60

Test Mode	IEEE 802.11b Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



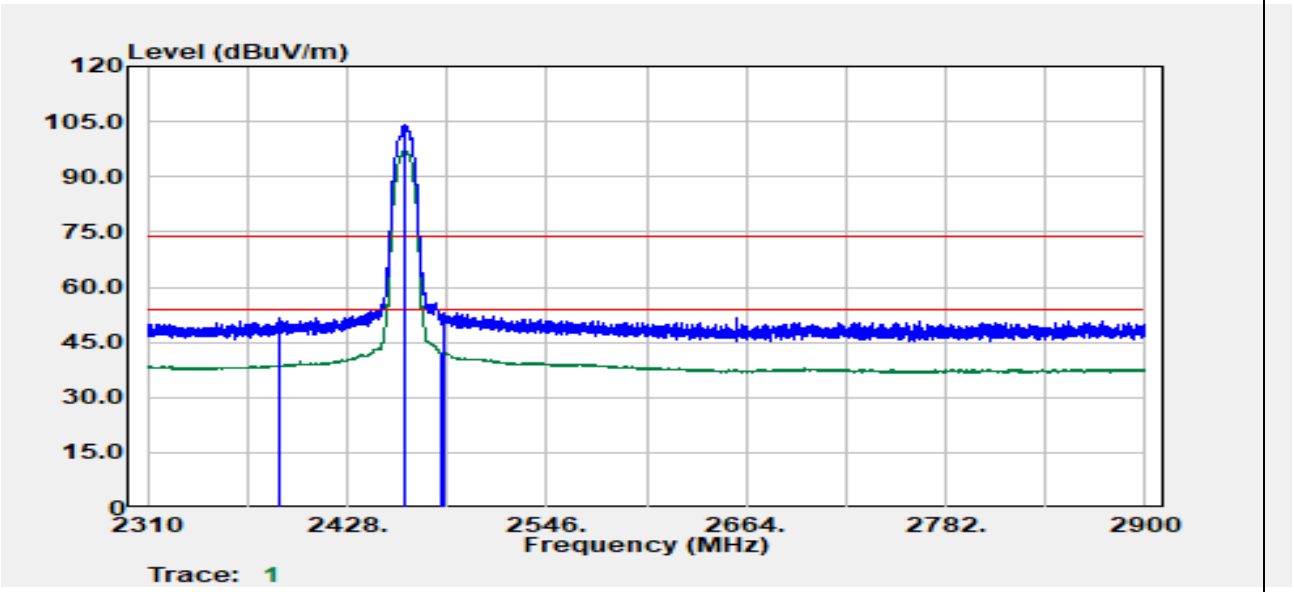
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2330.65	Peak	39.59	11.59	51.17	74.00	-22.83
2387.88	Average	27.39	12.04	39.43	54.00	-14.57
2412.00	Peak	88.92	12.22	101.14	- -	- -
2412.00	Average	81.92	12.22	94.14	- -	- -
2483.93	Peak	38.64	12.57	51.20	74.00	-22.80
2484.64	Average	27.03	12.57	39.60	54.00	-14.40

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



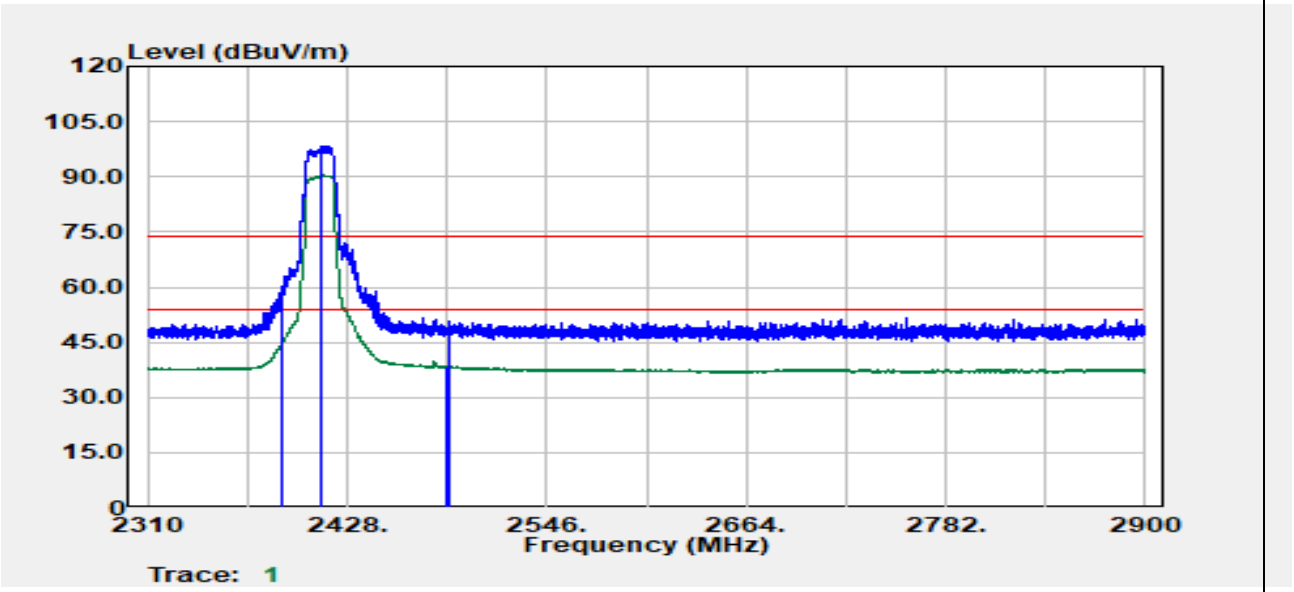
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2350.47	Peak	38.68	11.71	50.39	74.00	-23.61
2383.63	Average	25.85	12.01	37.86	54.00	-16.14
2462.00	Peak	86.46	12.49	98.94	- -	- -
2462.00	Average	79.39	12.49	91.88	- -	- -
2486.76	Peak	38.96	12.58	51.54	74.00	-22.46
2486.88	Average	26.85	12.58	39.43	54.00	-14.57

Test Mode	IEEE 802.11b High CH 2462MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



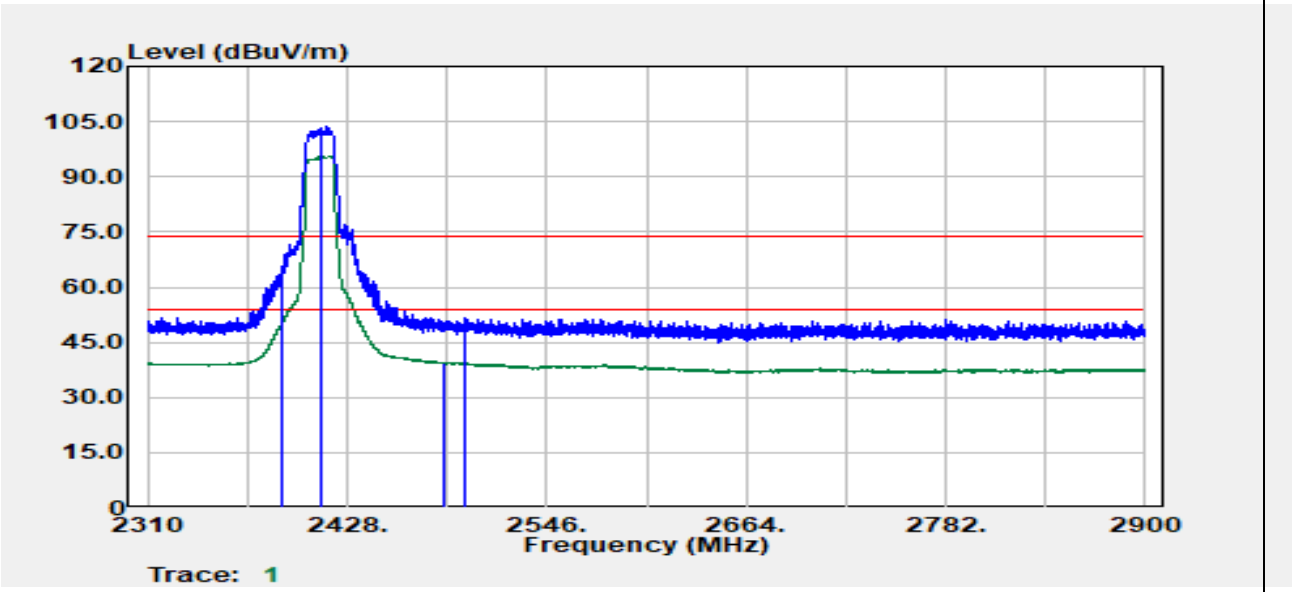
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2387.17	Peak	39.43	12.04	51.47	74.00	-22.53
2388.00	Average	26.65	12.04	38.70	54.00	-15.30
2462.00	Peak	91.58	12.49	104.07	- -	- -
2462.00	Average	84.61	12.49	97.10	- -	- -
2483.50	Average	29.43	12.57	42.00	54.00	-12.00
2485.23	Peak	40.38	12.57	52.95	74.00	-21.05

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



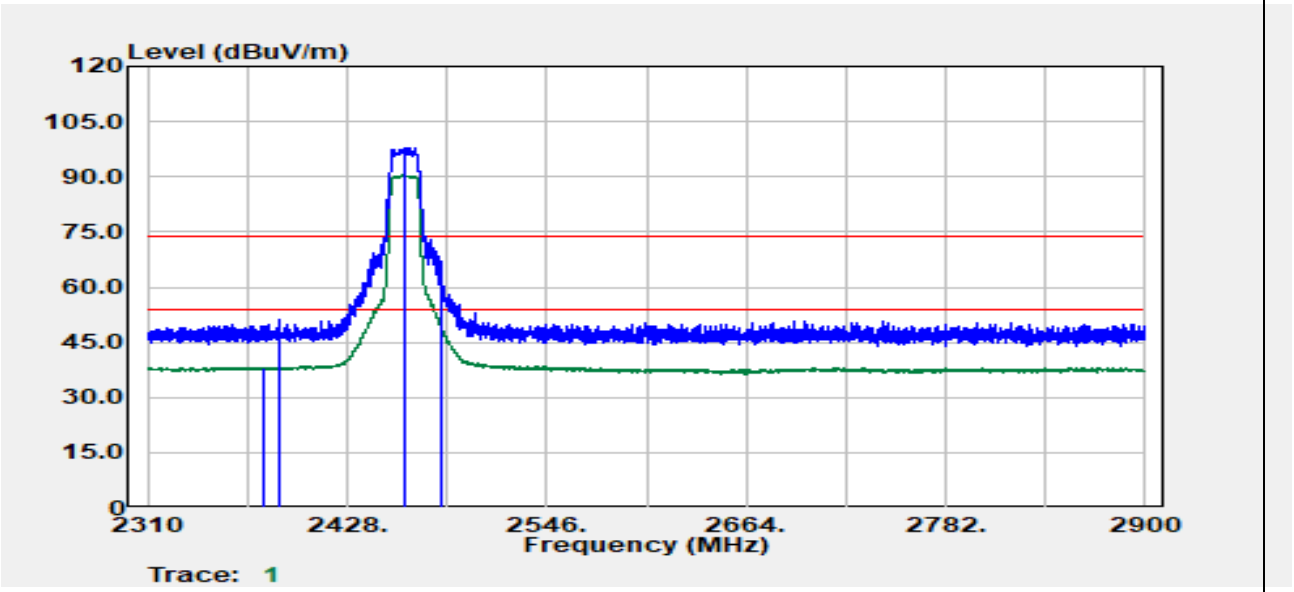
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2390.00	Peak	48.28	12.06	60.34	74.00	-13.66
2390.00	Average	33.19	12.06	45.25	54.00	-8.75
2412.00	Peak	86.15	12.22	98.37	- -	- -
2412.00	Average	78.21	12.22	90.43	- -	- -
2486.76	Average	25.90	12.58	38.48	54.00	-15.52
2487.83	Peak	37.99	12.58	50.57	74.00	-23.43

Test Mode	IEEE 802.11g Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



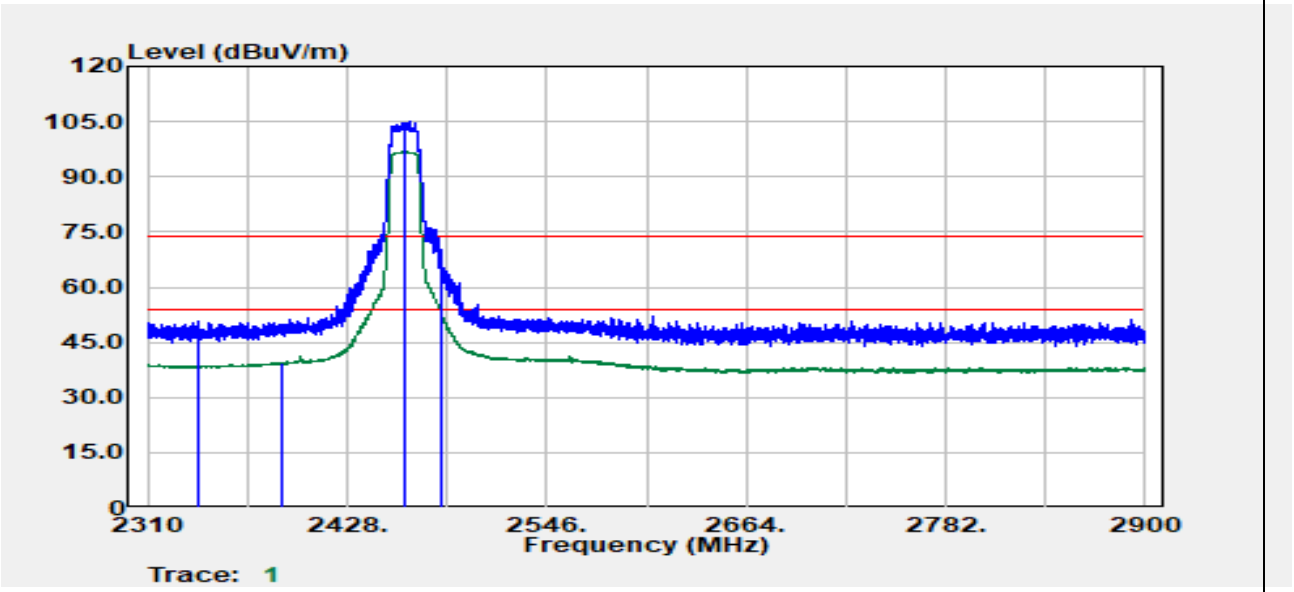
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.77	Peak	53.41	12.06	65.47	74.00	-8.53
2389.89	Average	38.72	12.06	50.78	54.00	-3.22
2412.00	Peak	91.62	12.22	103.84	- -	- -
2412.00	Average	83.46	12.22	95.68	- -	- -
2485.70	Average	27.00	12.58	39.58	54.00	-14.42
2497.50	Peak	39.19	12.62	51.81	74.00	-22.19

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Band Edge	Test Date	January 3, 2023
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		



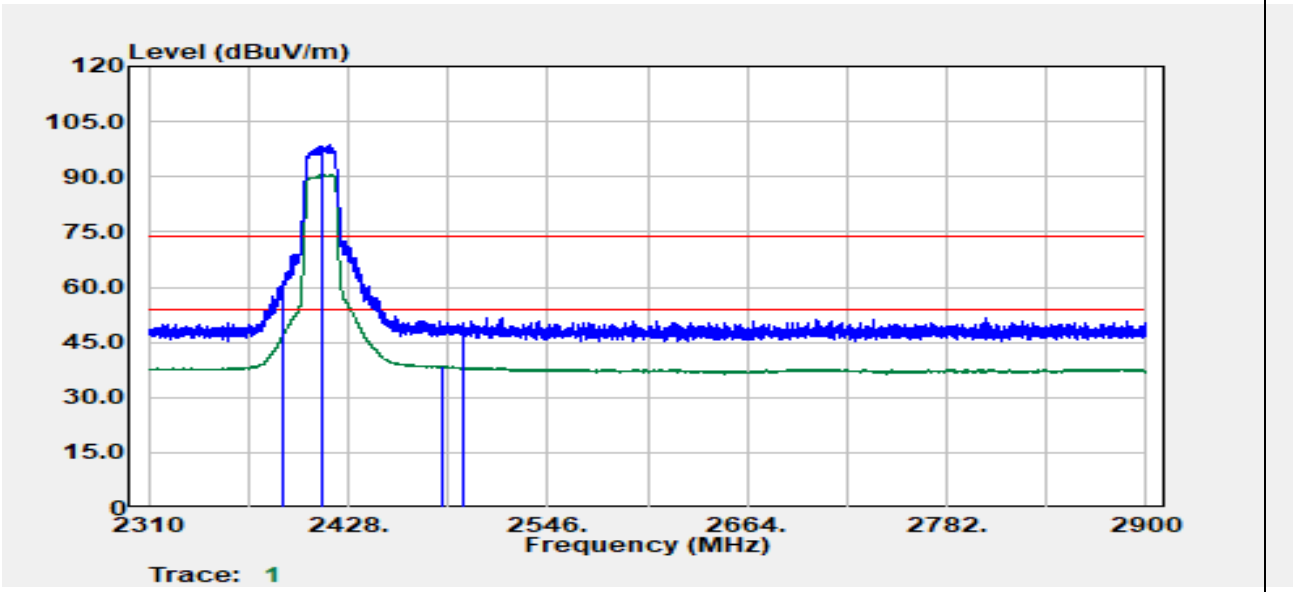
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2378.32	Average	26.28	11.96	38.24	54.00	-15.76
2387.17	Peak	39.31	12.04	51.35	74.00	-22.65
2462.00	Peak	85.48	12.49	97.96	- -	- -
2462.00	Average	77.90	12.49	90.39	- -	- -
2483.50	Peak	51.60	12.57	64.17	74.00	-9.83
2483.50	Average	36.43	12.57	49.00	54.00	-5.00

Test Mode	IEEE 802.11g High CH 2462MHz	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Band Edge	Test Date	January 3, 2023
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak & Average		



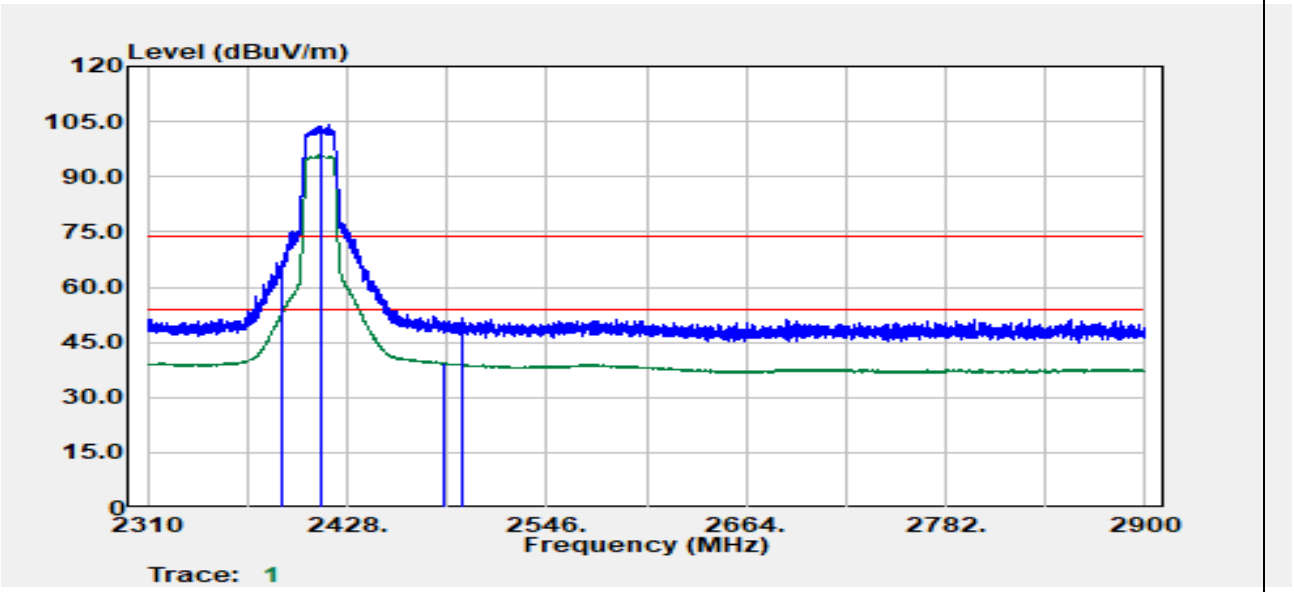
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2340.33	Peak	39.09	11.65	50.74	74.00	-23.26
2389.06	Average	27.41	12.05	39.46	54.00	-14.54
2462.00	Peak	92.51	12.49	105.00	- -	- -
2462.00	Average	84.62	12.49	97.11	- -	- -
2483.50	Peak	54.61	12.57	67.18	74.00	-6.82
2483.50	Average	40.96	12.57	53.53	54.00	-0.47

Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



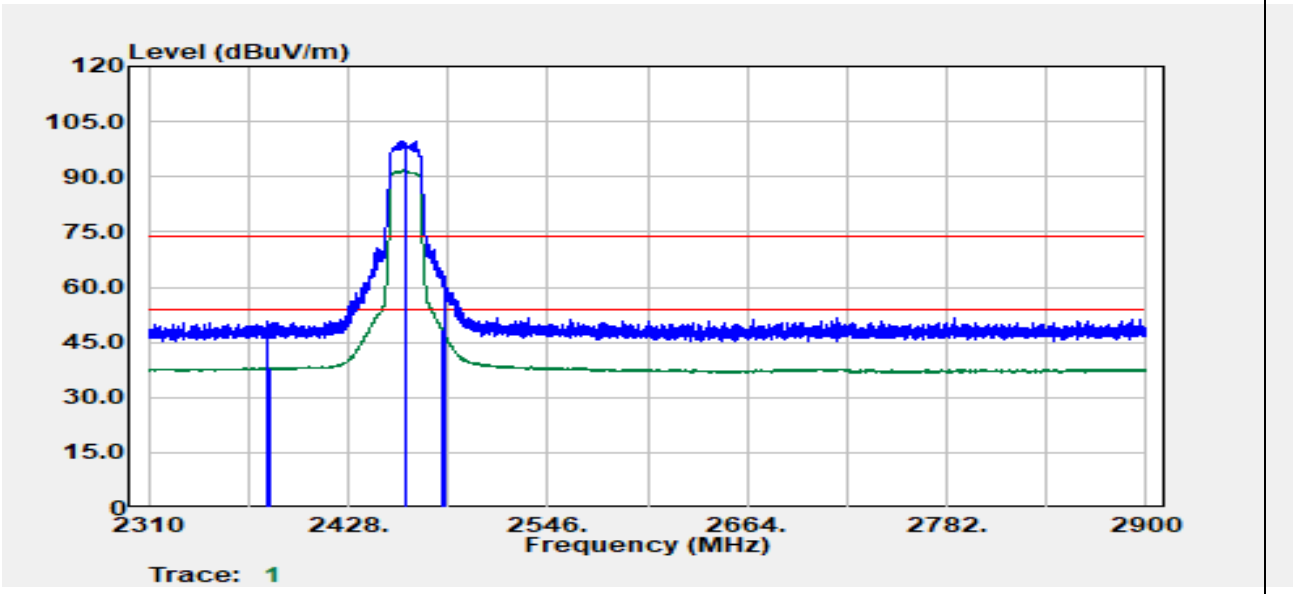
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.41	Peak	48.16	12.06	60.22	74.00	-13.78
2390.00	Average	35.01	12.06	47.07	54.00	-6.93
2412.00	Peak	86.66	12.22	98.88	- -	- -
2412.00	Average	78.43	12.22	90.65	- -	- -
2484.17	Average	25.88	12.57	38.45	54.00	-15.55
2496.32	Peak	37.84	12.62	50.45	74.00	-23.55

Test Mode	IEEE 802.11n HT20 Low CH 2412MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



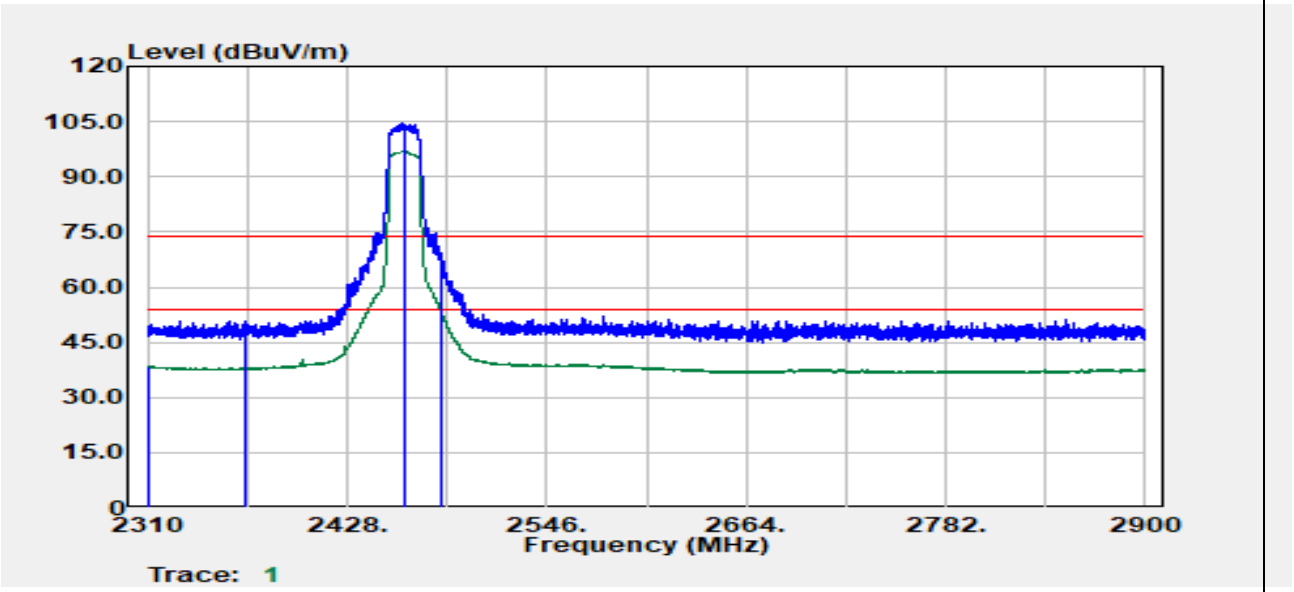
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2388.71	Peak	54.95	12.05	67.00	74.00	-7.00
2390.00	Average	41.06	12.06	53.12	54.00	-0.88
2412.00	Peak	91.74	12.22	103.96	- -	- -
2412.00	Average	83.60	12.22	95.82	- -	- -
2484.88	Average	26.93	12.57	39.50	54.00	-14.50
2496.68	Peak	39.02	12.62	51.64	74.00	-22.36

Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



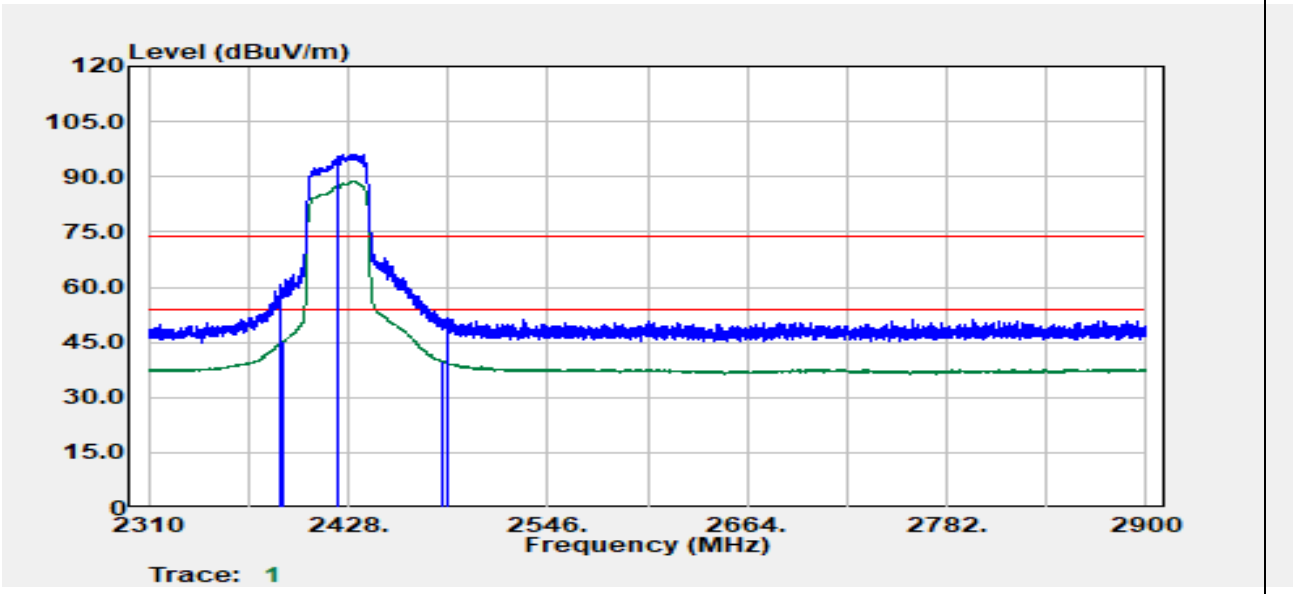
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2379.74	Peak	38.63	11.97	50.60	74.00	-23.40
2381.98	Average	26.04	11.99	38.03	54.00	-15.97
2462.00	Peak	87.08	12.49	99.57	- -	- -
2462.00	Average	79.33	12.49	91.82	- -	- -
2483.50	Average	35.79	12.57	48.36	54.00	-5.64
2484.52	Peak	50.27	12.57	62.84	74.00	-11.16

Test Mode	IEEE 802.11n HT20 High CH 2462MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



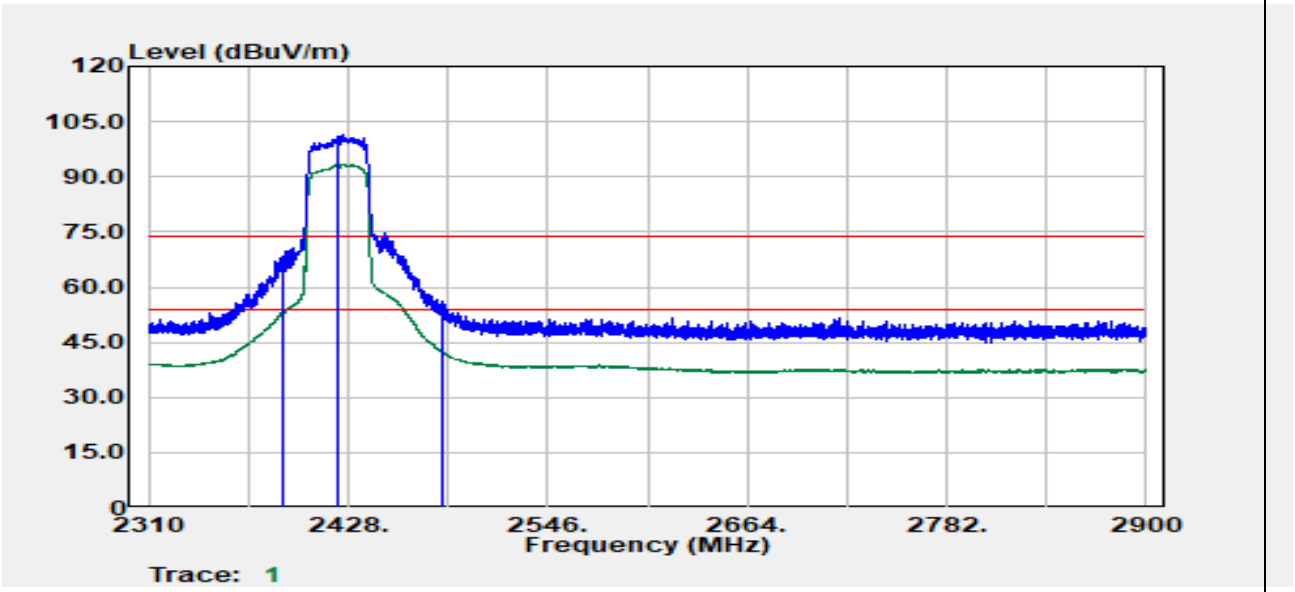
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2310.35	Average	26.87	11.46	38.33	54.00	-15.67
2368.06	Peak	39.00	11.87	50.86	74.00	-23.14
2462.00	Peak	92.18	12.49	104.66	- -	- -
2462.00	Average	84.53	12.49	97.02	- -	- -
2483.50	Average	40.80	12.57	53.37	54.00	-0.63
2484.05	Peak	55.51	12.57	68.08	74.00	-5.92

Test Mode	IEEE 802.11n HT40 Low CH 2422 MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		



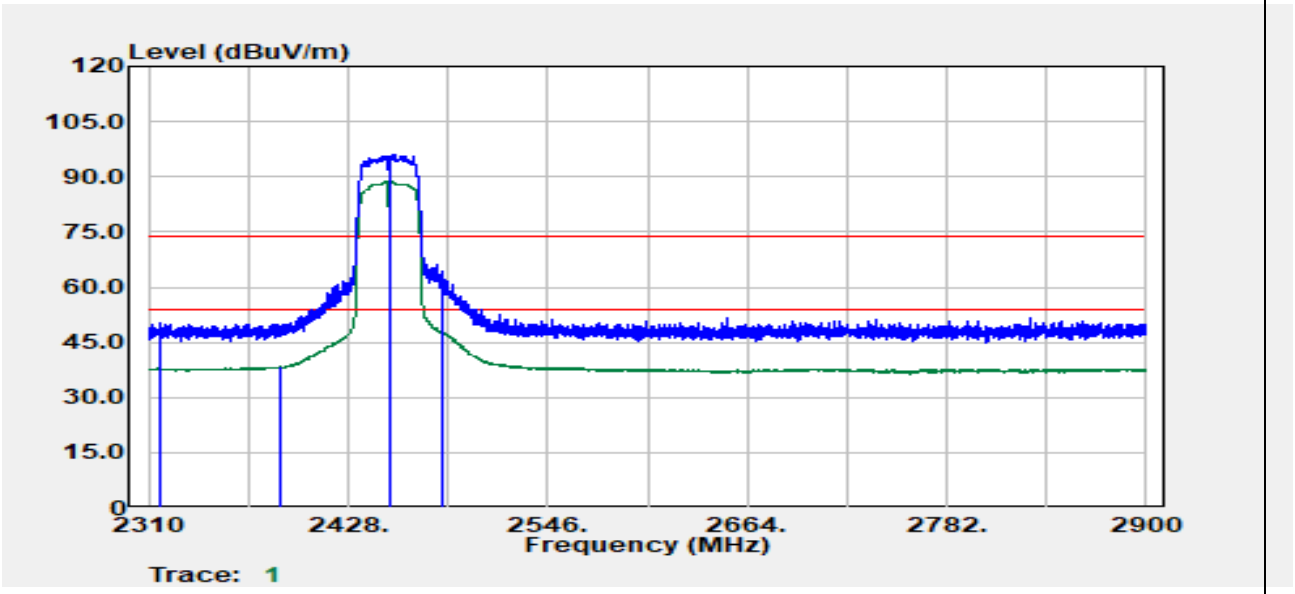
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2388.35	Peak	48.59	12.05	60.64	74.00	-13.36
2389.06	Average	33.28	12.05	45.33	54.00	-8.67
2422.00	Peak	83.83	12.28	96.11	- -	- -
2422.00	Average	76.38	12.28	88.65	- -	- -
2483.58	Average	27.32	12.57	39.89	54.00	-14.11
2487.47	Peak	38.95	12.58	51.53	74.00	-22.47

Test Mode	IEEE 802.11n HT40 Low CH 2422 MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



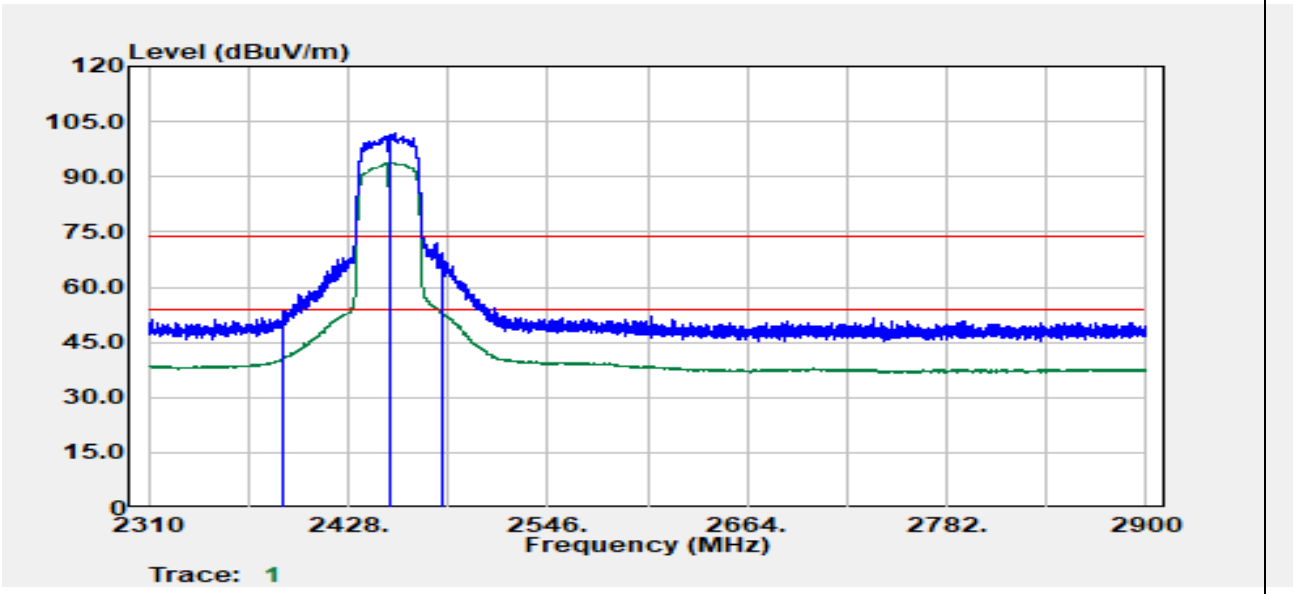
Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.41	Peak	56.48	12.06	68.54	74.00	-5.46
2389.53	Average	40.96	12.06	53.02	54.00	-0.98
2422.00	Peak	89.01	12.28	101.29	- -	- -
2422.00	Average	81.17	12.28	93.45	- -	- -
2483.58	Average	29.85	12.57	42.42	54.00	-11.58
2484.05	Peak	42.74	12.57	55.31	74.00	-18.69

Test Mode	IEEE 802.11n HT40 High CH 2452 MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
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)
2316.73	Peak	38.63	11.50	50.13	74.00	-23.87
2388.23	Average	26.23	12.05	38.28	54.00	-15.72
2452.00	Peak	83.65	12.45	96.10	- -	- -
2452.00	Average	76.14	12.45	88.59	- -	- -
2483.50	Peak	51.60	12.57	64.16	74.00	-9.84
2483.50	Average	35.17	12.57	47.74	54.00	-6.26

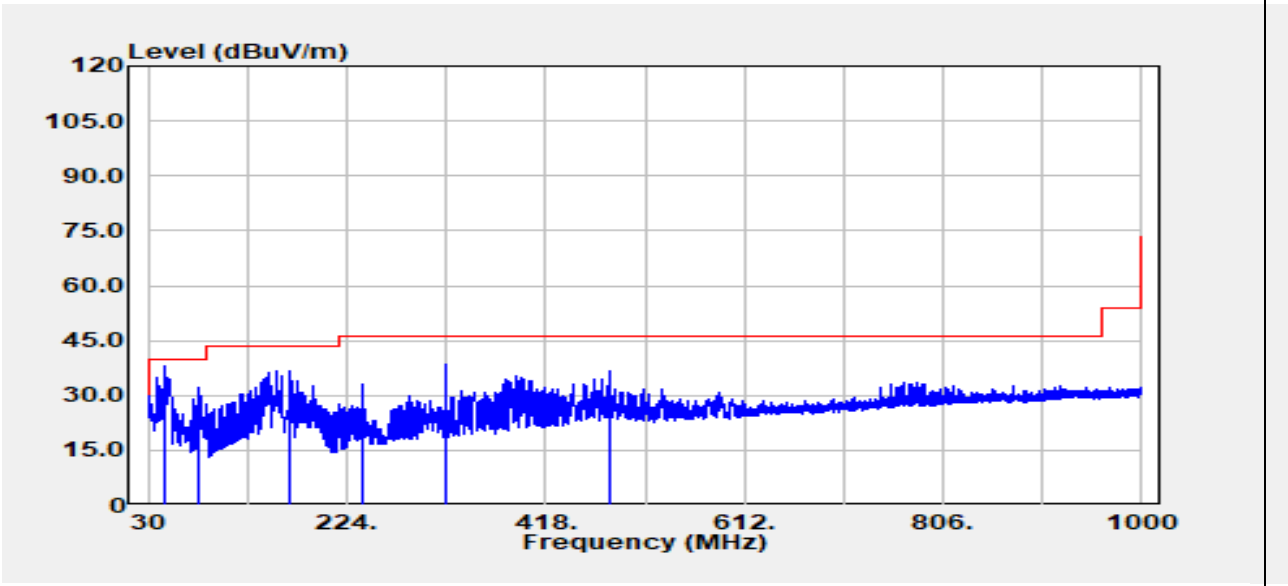
Test Mode	IEEE 802.11n HT40 High CH 2452 MHz	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Band Edge	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
2389.89	Peak	41.22	12.06	53.28	74.00	-20.72
2390.00	Average	28.66	12.06	40.72	54.00	-13.28
2452.00	Peak	89.27	12.45	101.72	- -	- -
2452.00	Average	81.48	12.45	93.93	- -	- -
2483.50	Peak	56.91	12.57	69.48	74.00	-4.52
2483.50	Average	40.51	12.57	53.08	54.00	-0.92

Below 1G Test Data

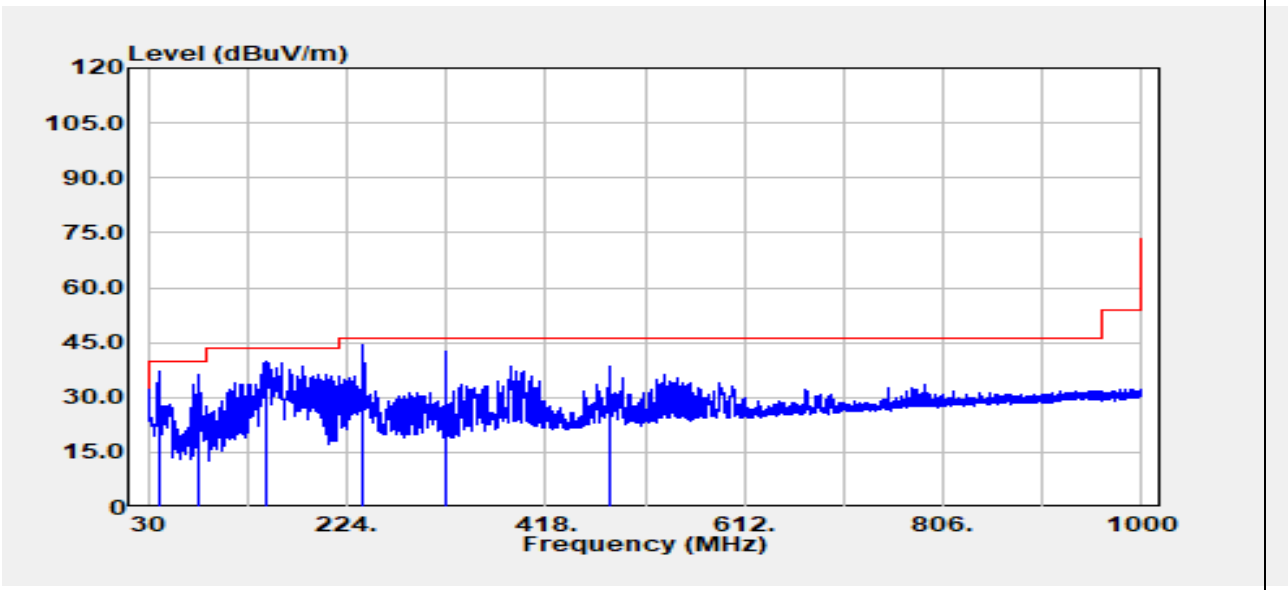
Test Mode	IEEE 802.11g High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	30MHz-1GHz	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak		



Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
45.40	Peak	51.44	-13.55	37.89	40.00	-2.11
78.62	Peak	48.27	-15.92	32.35	40.00	-7.65
168.71	Peak	47.79	-11.26	36.54	43.50	-6.96
240.01	Peak	44.14	-10.88	33.26	46.00	-12.74
320.03	Peak	46.75	-8.44	38.31	46.00	-7.69
479.96	Peak	40.48	-3.83	36.65	46.00	-9.35

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

Test Mode	IEEE 802.11g High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	30MHz-1GHz	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak		

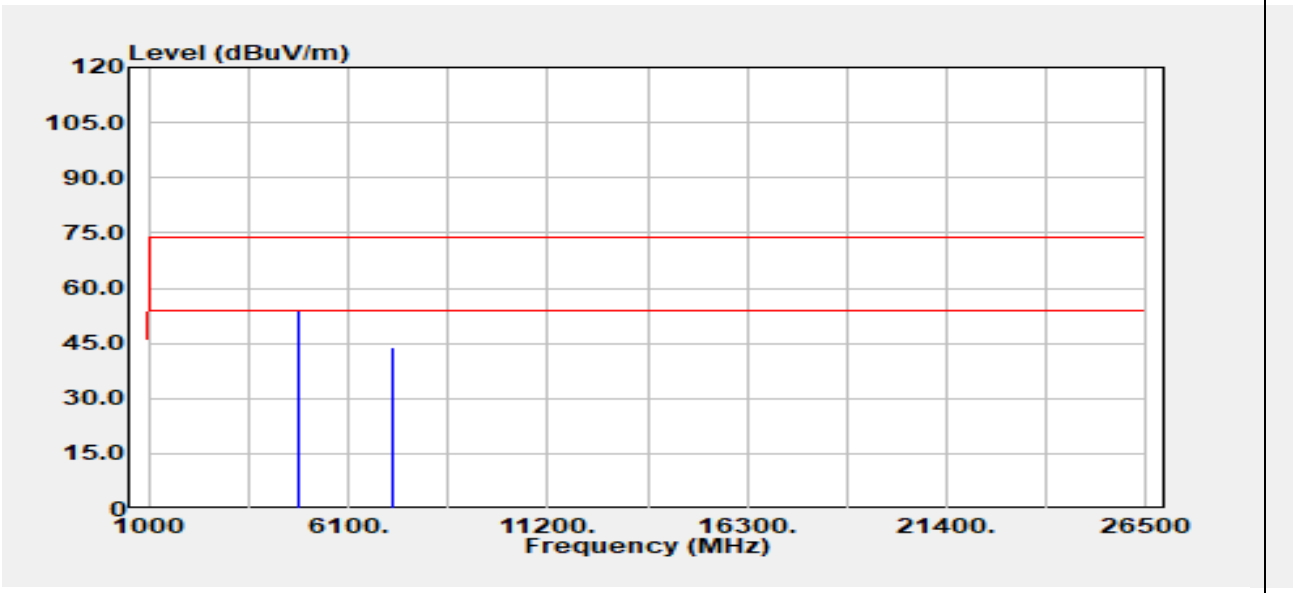


Frequency (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
39.94	Peak	46.65	-9.67	36.98	40.00	-3.02
78.62	Peak	52.19	-15.92	36.27	40.00	-3.73
144.22	Peak	50.19	-10.39	39.80	43.50	-3.70
240.01	Peak	55.08	-10.88	44.20	46.00	-1.80
320.03	Peak	50.80	-8.44	42.37	46.00	-3.63
479.96	Peak	42.21	-3.83	38.38	46.00	-7.62

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	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

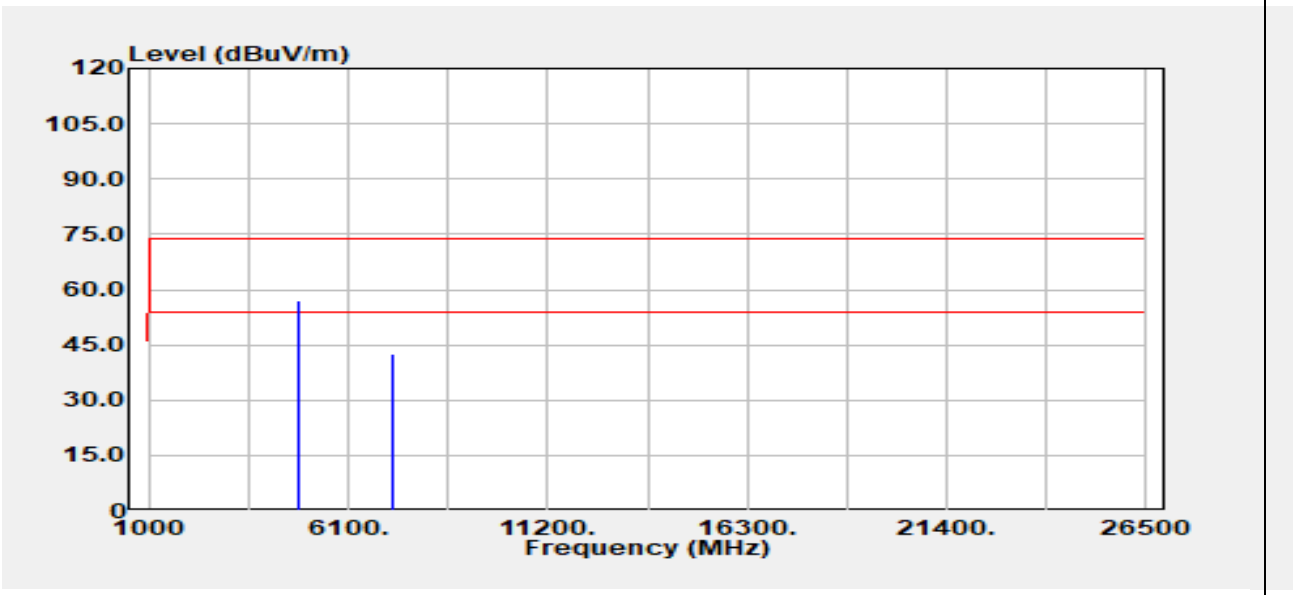


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	45.09	8.67	53.76	74.00	-20.24
4824.00	Average	42.13	8.67	50.80	54.00	-3.20
7236.00	Peak	31.17	12.53	43.70	74.00	-30.30
7236.00	Average	21.60	12.53	34.13	54.00	-19.87

Remark:

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

Test Mode	IEEE 802.11b Low CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

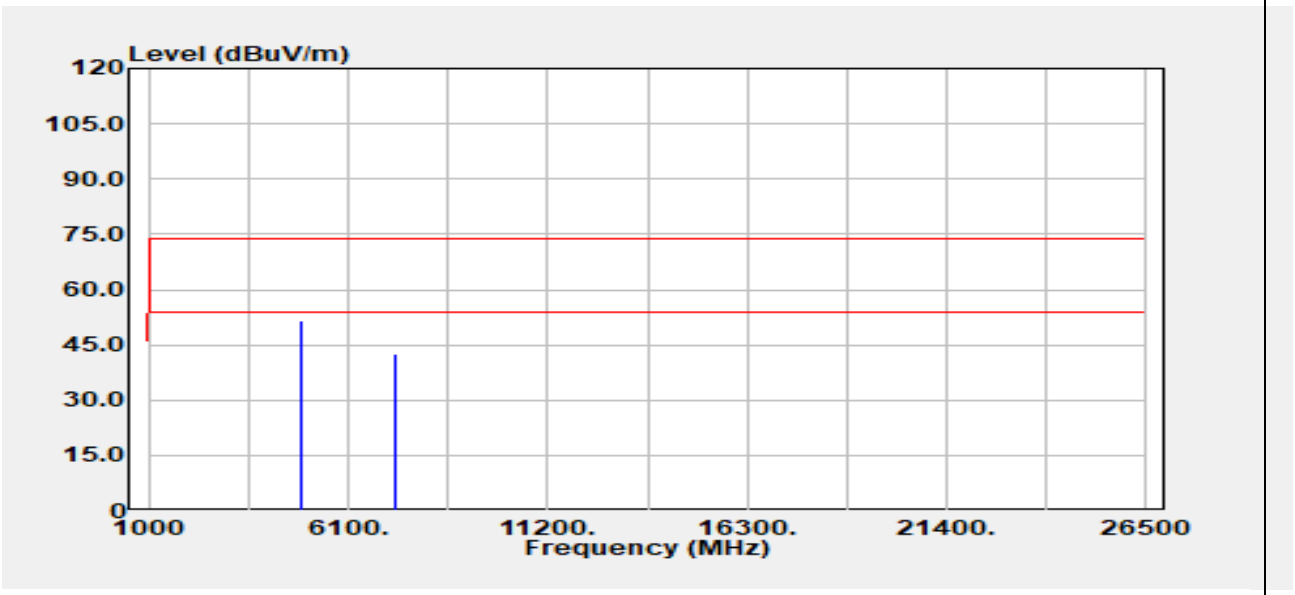


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	48.48	8.67	57.15	74.00	-16.85
4824.00	Average	44.21	8.67	52.88	54.00	-1.12
7236.00	Peak	29.85	12.53	42.38	74.00	-31.62
7236.00	Average	19.75	12.53	32.28	54.00	-21.72

Remark:

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

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

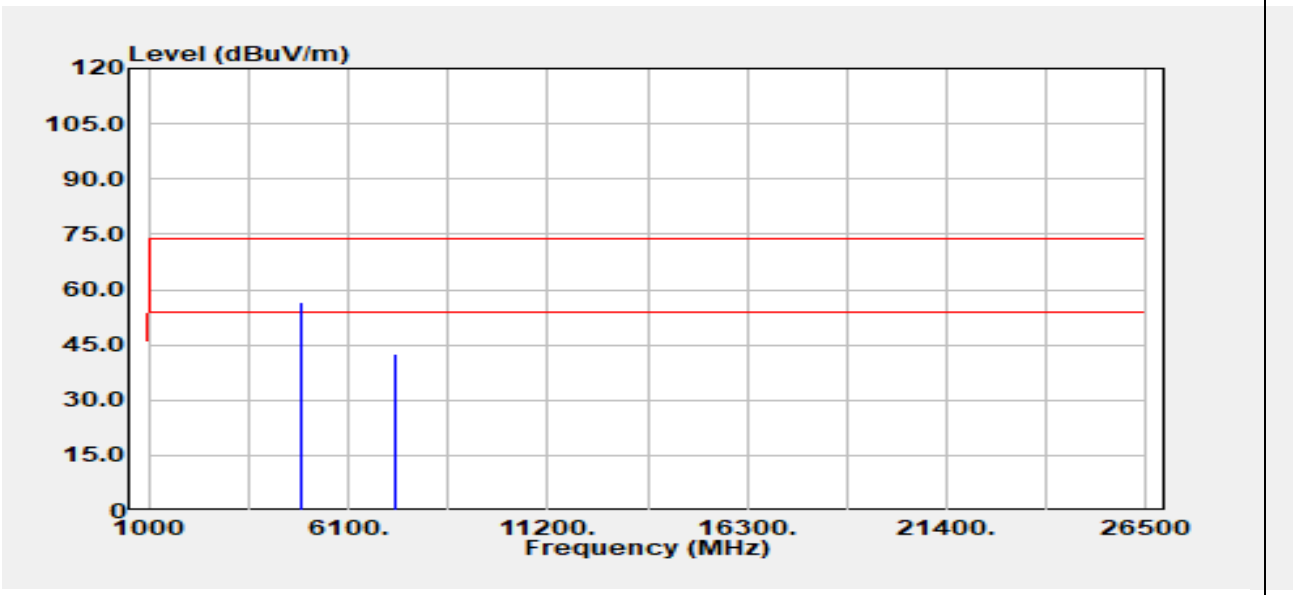


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	43.08	8.72	51.80	74.00	-22.20
4874.00	Average	39.60	8.72	48.32	54.00	-5.68
7311.00	Peak	29.99	12.50	42.49	74.00	-31.51
7311.00	Average	20.60	12.50	33.10	54.00	-20.90

Remark:

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

Test Mode	IEEE 802.11b Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

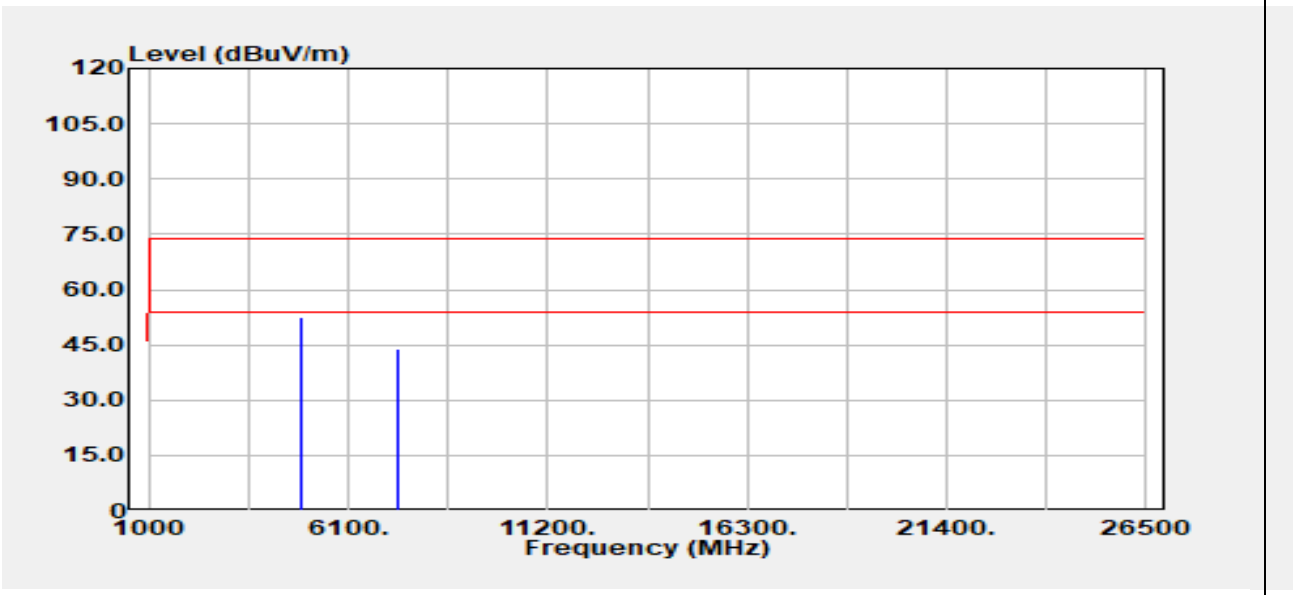


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	47.96	8.72	56.68	74.00	-17.32
4874.00	Average	44.36	8.72	53.08	54.00	-0.92
7311.00	Peak	29.88	12.50	42.39	74.00	-31.61
7311.00	Average	19.95	12.50	32.45	54.00	-21.55

Remark:

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

Test Mode	IEEE 802.11b High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

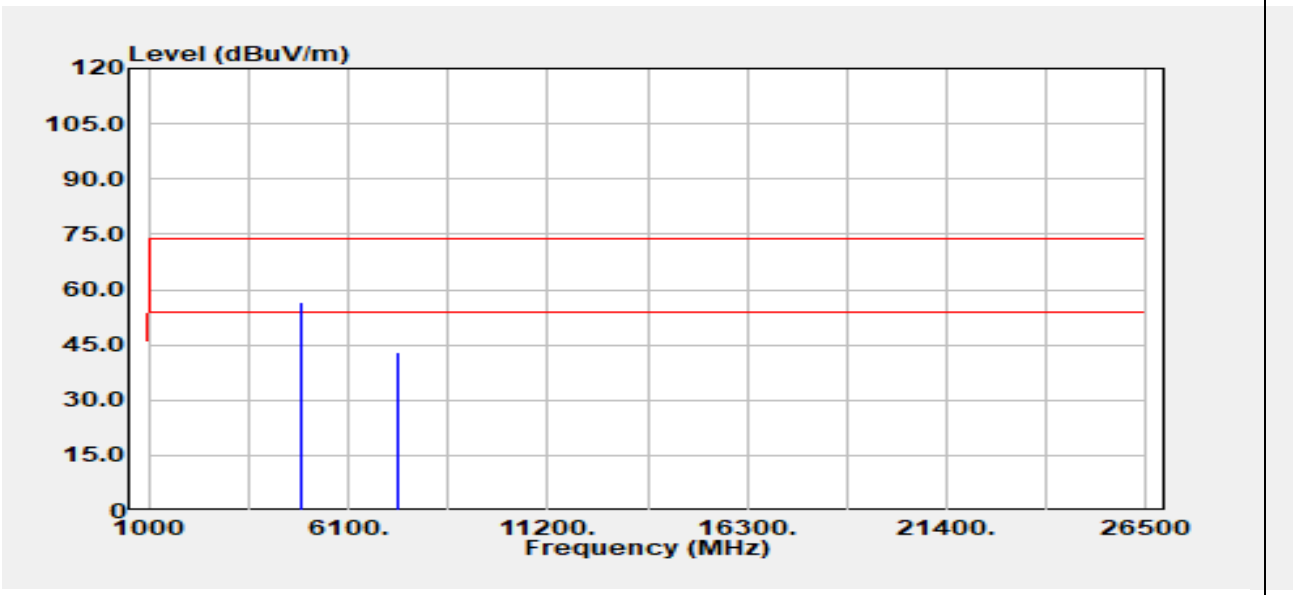


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	43.54	8.79	52.34	74.00	-21.66
4924.00	Average	40.30	8.79	49.09	54.00	-4.91
7386.00	Peak	31.46	12.54	44.01	74.00	-29.99
7386.00	Average	22.51	12.54	35.05	54.00	-18.95

Remark:

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

Test Mode	IEEE 802.11b High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

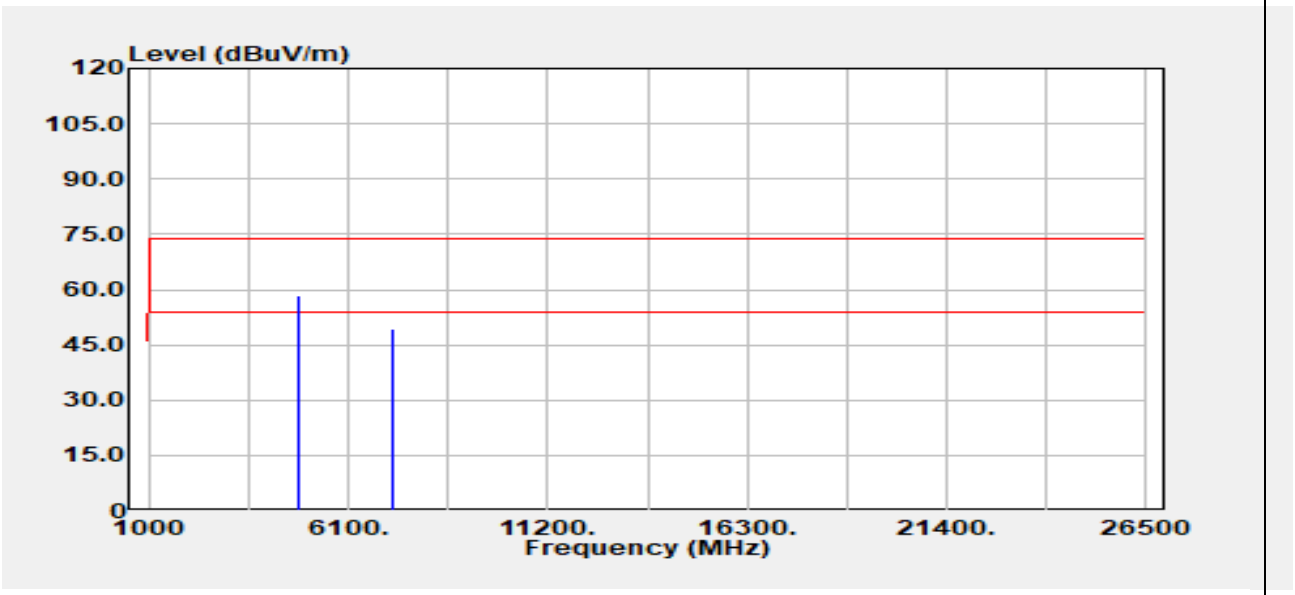


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	47.79	8.79	56.58	74.00	-17.42
4924.00	Average	43.92	8.79	52.71	54.00	-1.29
7386.00	Peak	30.48	12.54	43.02	74.00	-30.98
7386.00	Average	21.68	12.54	34.22	54.00	-19.78

Remark:

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

Test Mode	IEEE 802.11g Low CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

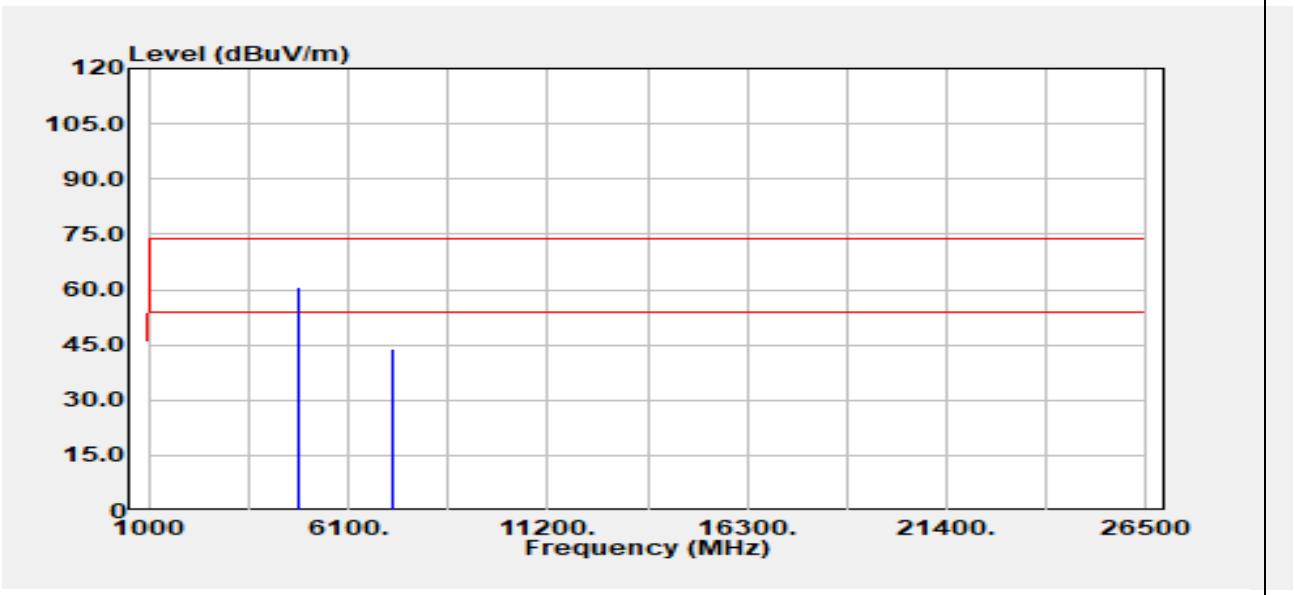


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	49.75	8.67	58.42	74.00	-15.58
4824.00	Average	41.85	8.67	50.52	54.00	-3.48
7236.00	Peak	37.02	12.53	49.55	74.00	-24.45
7236.00	Average	28.68	12.53	41.21	54.00	-12.79

Remark:

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

Test Mode	IEEE 802.11g Low CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

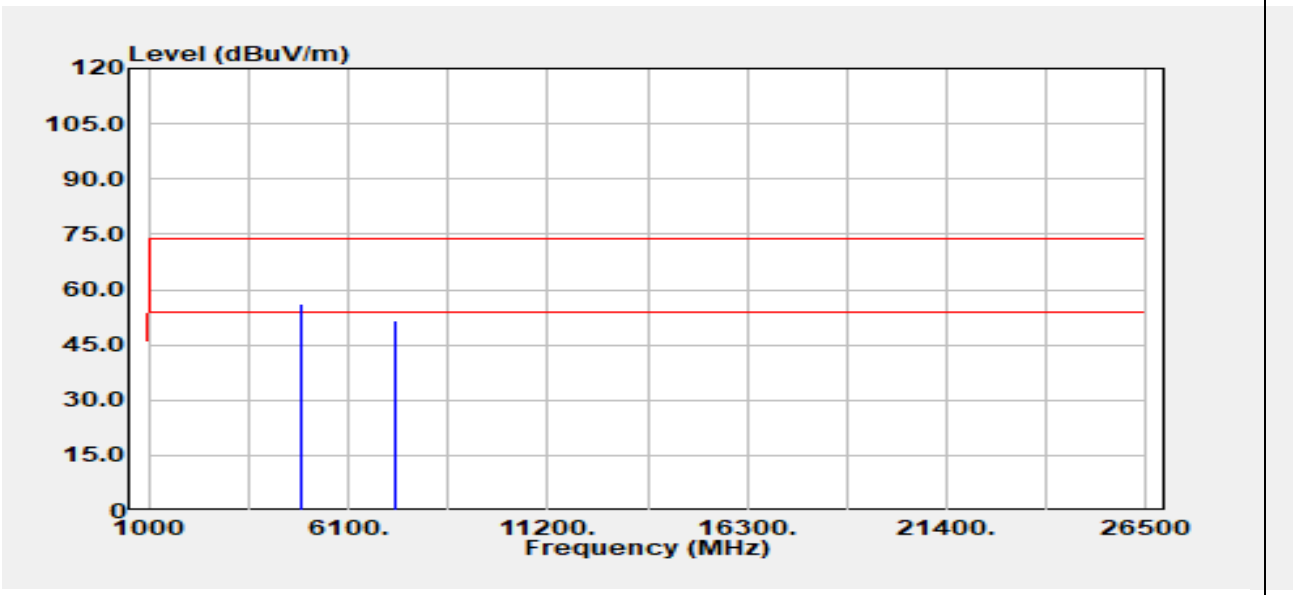


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	52.11	8.67	60.78	74.00	-13.22
4824.00	Average	44.16	8.67	52.83	54.00	-1.17
7236.00	Peak	31.33	12.53	43.86	74.00	-30.14
7236.00	Average	23.98	12.53	36.51	54.00	-17.49

Remark:

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

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

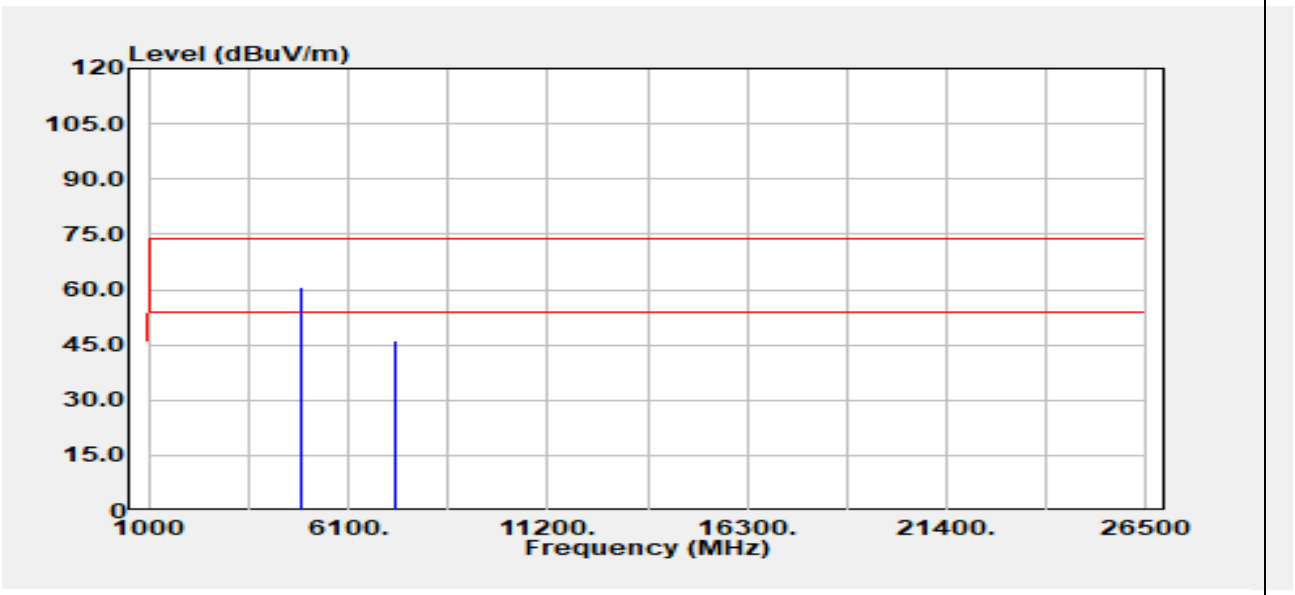


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	47.24	8.72	55.96	74.00	-18.04
4874.00	Average	38.34	8.72	47.06	54.00	-6.94
7311.00	Peak	39.06	12.50	51.56	74.00	-22.44
7311.00	Average	31.09	12.50	43.59	54.00	-10.41

Remark:

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

Test Mode	IEEE 802.11g Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

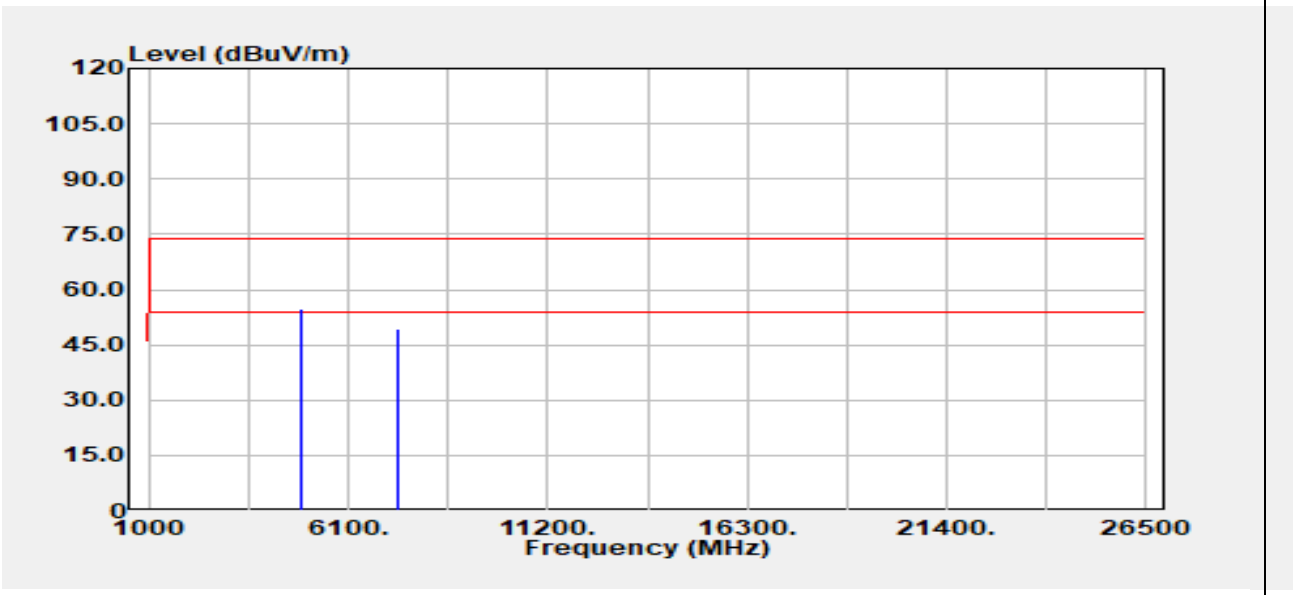


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	51.75	8.72	60.47	74.00	-13.53
4874.00	Average	44.07	8.72	52.79	54.00	-1.21
7311.00	Peak	33.72	12.50	46.22	74.00	-27.78
7311.00	Average	27.32	12.50	39.82	54.00	-14.18

Remark:

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

Test Mode	IEEE 802.11g High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

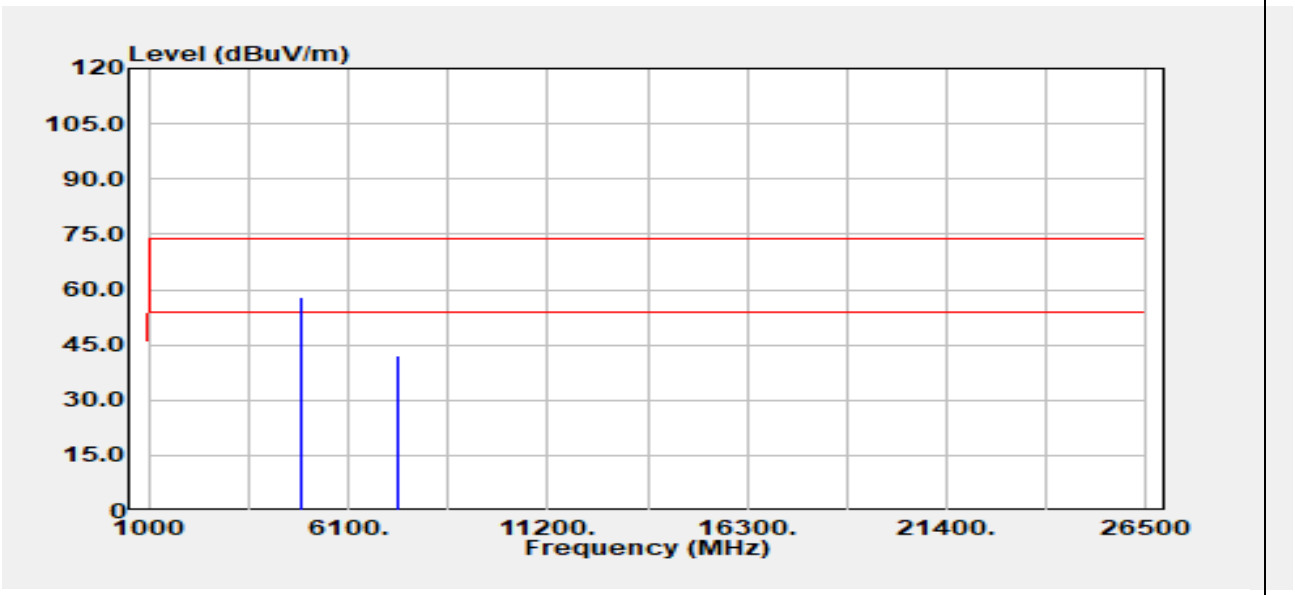


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	45.86	8.79	54.66	74.00	-19.34
4924.00	Average	36.98	8.79	45.77	54.00	-8.23
7386.00	Peak	36.86	12.54	49.40	74.00	-24.60
7386.00	Average	30.30	12.54	42.84	54.00	-11.16

Remark:

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

Test Mode	IEEE 802.11g High CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

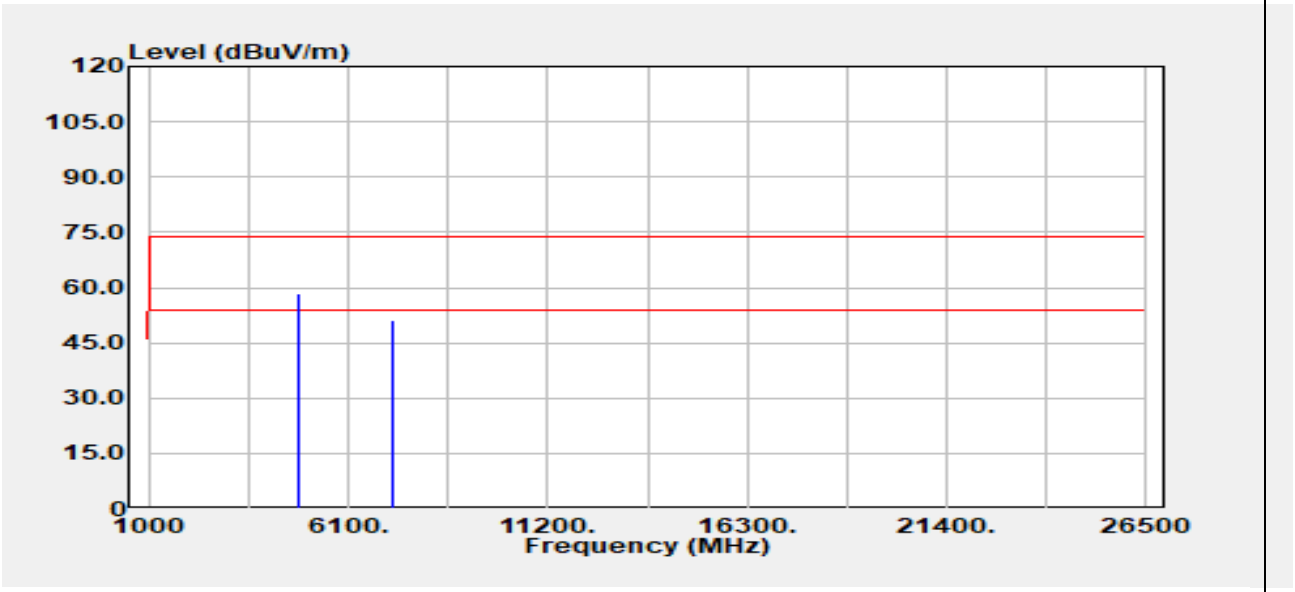


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	49.13	8.79	57.92	74.00	-16.08
4924.00	Average	40.73	8.79	49.52	54.00	-4.48
7386.00	Peak	29.60	12.54	42.15	74.00	-31.85
7386.00	Average	20.99	12.54	33.53	54.00	-20.47

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

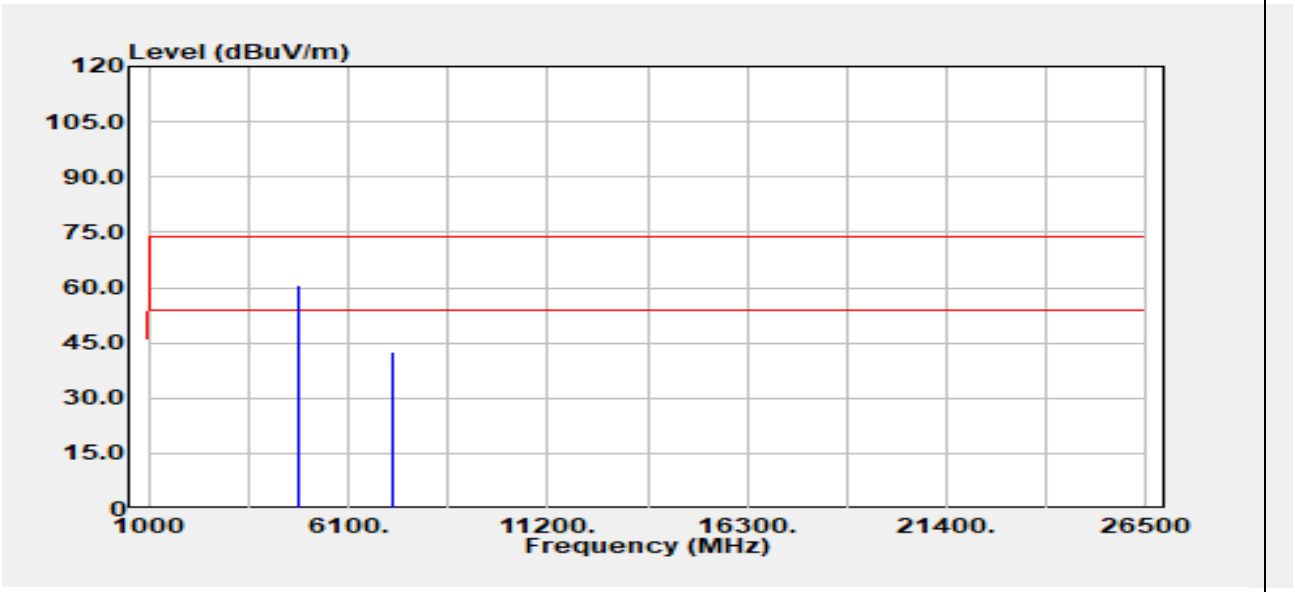


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	49.96	8.67	58.64	74.00	-15.36
4824.00	Average	40.98	8.67	49.65	54.00	-4.35
7236.00	Peak	38.85	12.53	51.38	74.00	-22.62
7236.00	Average	29.99	12.53	42.52	54.00	-11.48

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

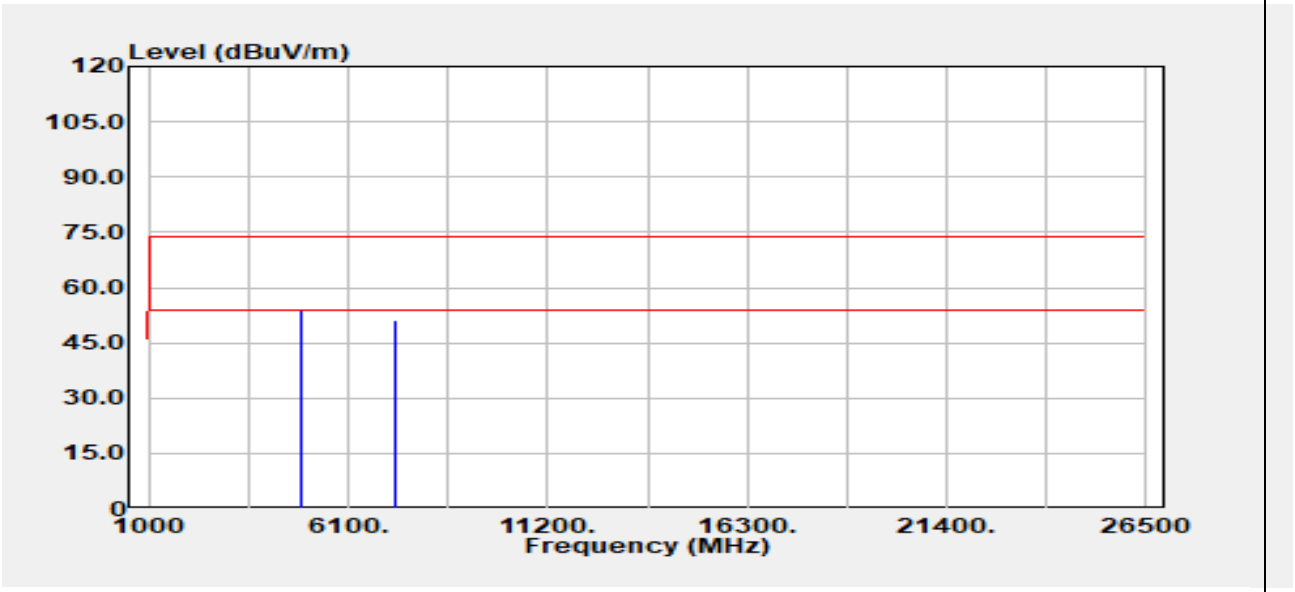


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4824.00	Peak	52.09	8.67	60.76	74.00	-13.24
4824.00	Average	44.31	8.67	52.98	54.00	-1.02
7236.00	Peak	30.24	12.53	42.77	74.00	-31.23
7236.00	Average	24.06	12.53	36.59	54.00	-17.41

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

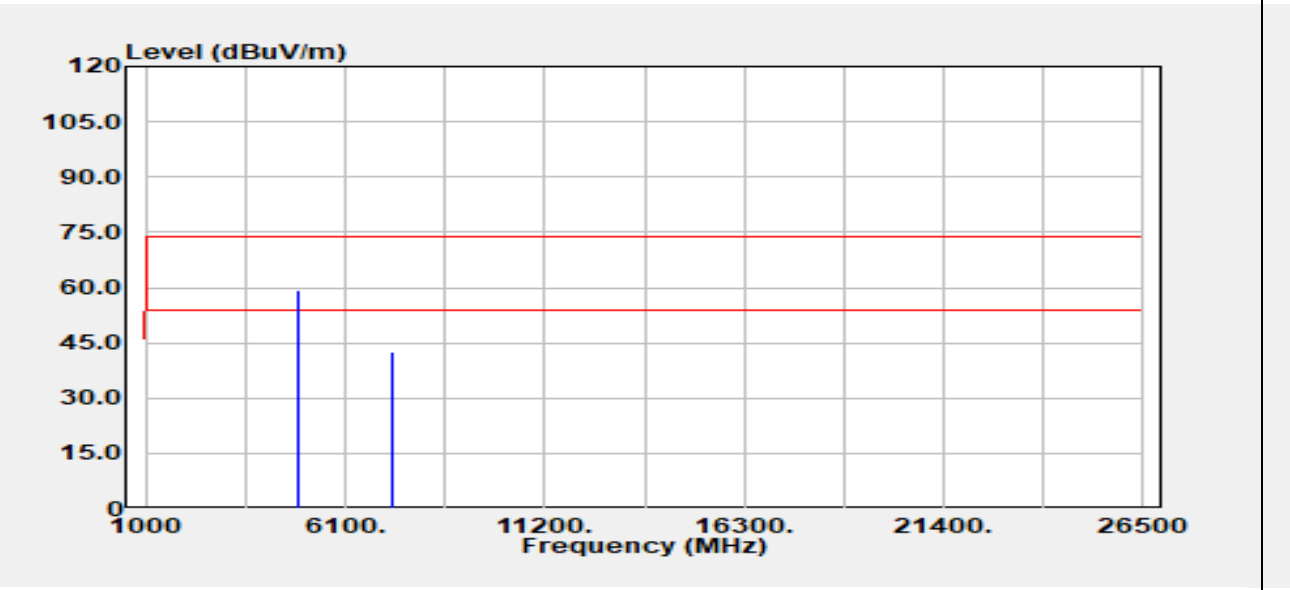


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	45.01	8.72	53.73	74.00	-20.27
4874.00	Average	37.23	8.72	45.95	54.00	-8.05
7311.00	Peak	38.52	12.50	51.03	74.00	-22.97
7311.00	Average	29.62	12.50	42.12	54.00	-11.88

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	20.1(℃)/ 61%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
Detector	Peak / Average		

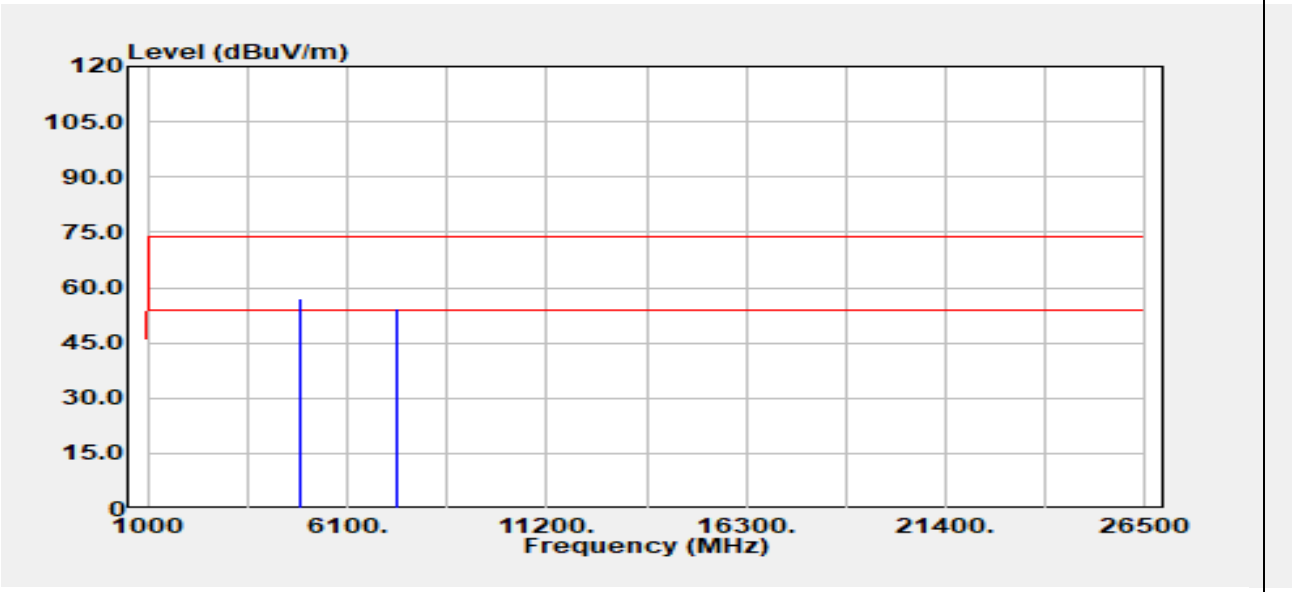


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	50.40	8.72	59.13	74.00	-14.87
4874.00	Average	42.68	8.72	51.40	54.00	-2.60
7311.00	Peak	29.97	12.50	42.48	74.00	-31.52
7311.00	Average	25.06	12.50	37.56	54.00	-16.44

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

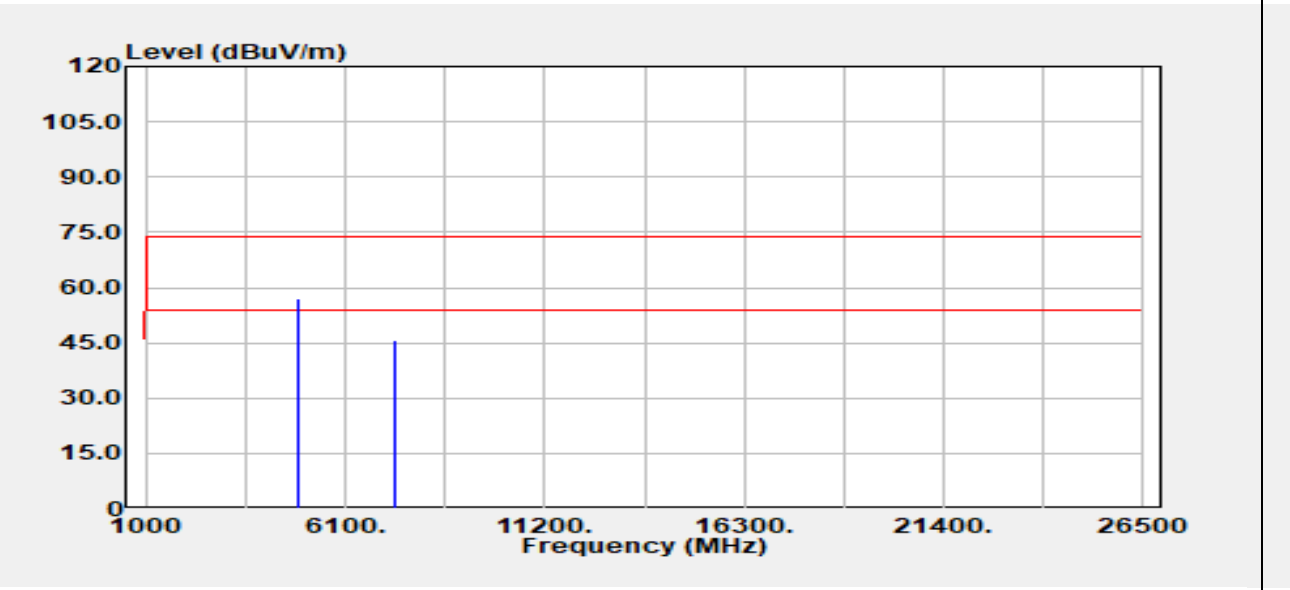


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	48.37	8.79	57.16	74.00	-16.84
4924.00	Average	41.20	8.79	50.00	54.00	-4.00
7386.00	Peak	41.97	12.54	54.52	74.00	-19.48
7386.00	Average	32.18	12.54	44.73	54.00	-9.27

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

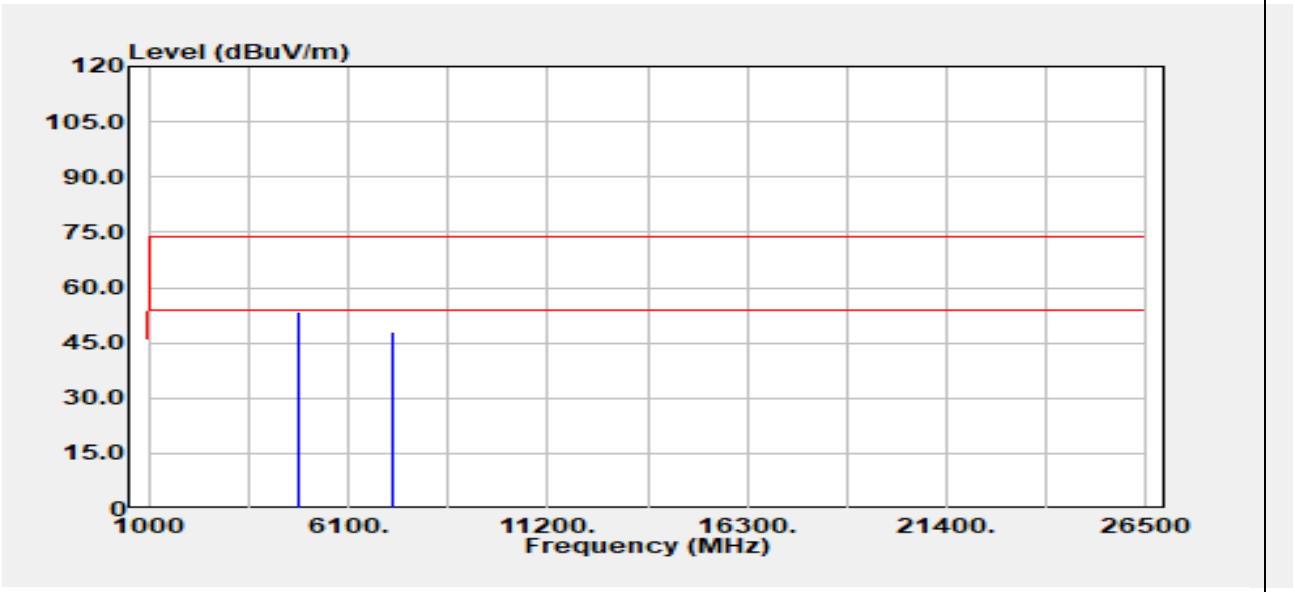


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4924.00	Peak	48.46	8.79	57.25	74.00	-16.75
4924.00	Average	41.32	8.79	50.11	54.00	-3.89
7386.00	Peak	33.03	12.54	45.58	74.00	-28.42
7386.00	Average	26.05	12.54	38.60	54.00	-15.40

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

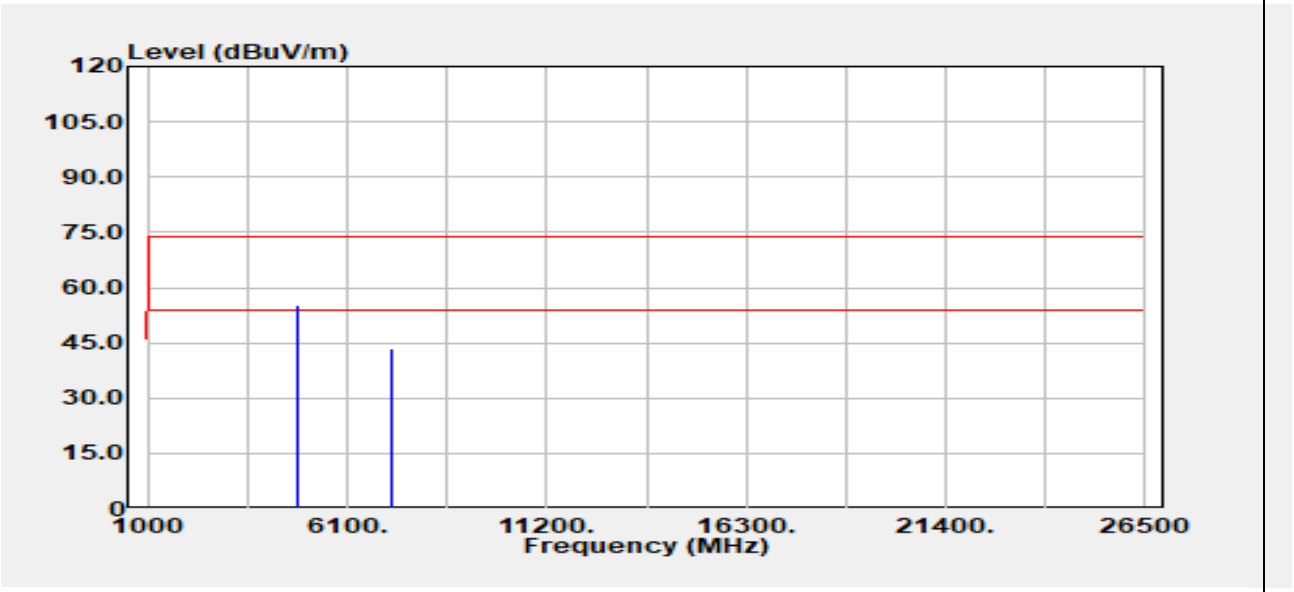


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4844.00	Peak	44.73	8.69	53.42	74.00	-20.58
4844.00	Average	37.51	8.69	46.20	54.00	-7.80
7266.00	Peak	35.68	12.50	48.18	74.00	-25.82
7266.00	Average	29.63	12.50	42.13	54.00	-11.87

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

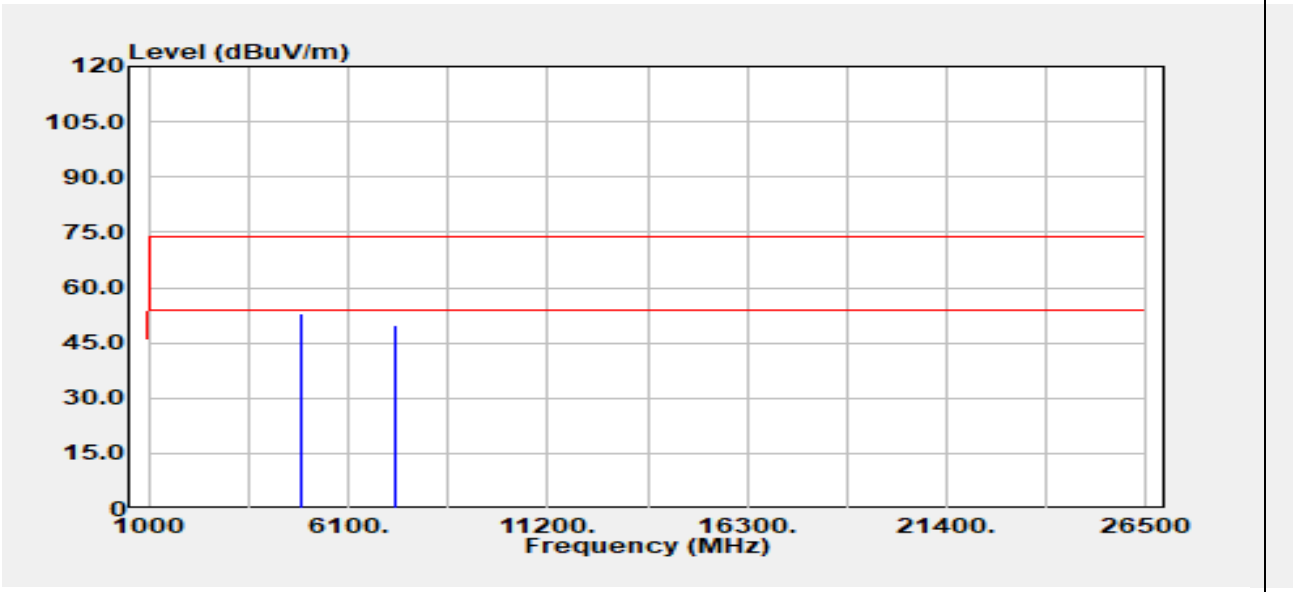


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4844.00	Peak	46.56	8.69	55.24	74.00	-18.76
4844.00	Average	40.92	8.69	49.61	54.00	-4.39
7266.00	Peak	30.86	12.50	43.36	74.00	-30.64
7266.00	Average	24.17	12.50	36.67	54.00	-17.33

Remark:

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

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Vertical	Test Engineer	Ray Li
Detector	Peak / Average		

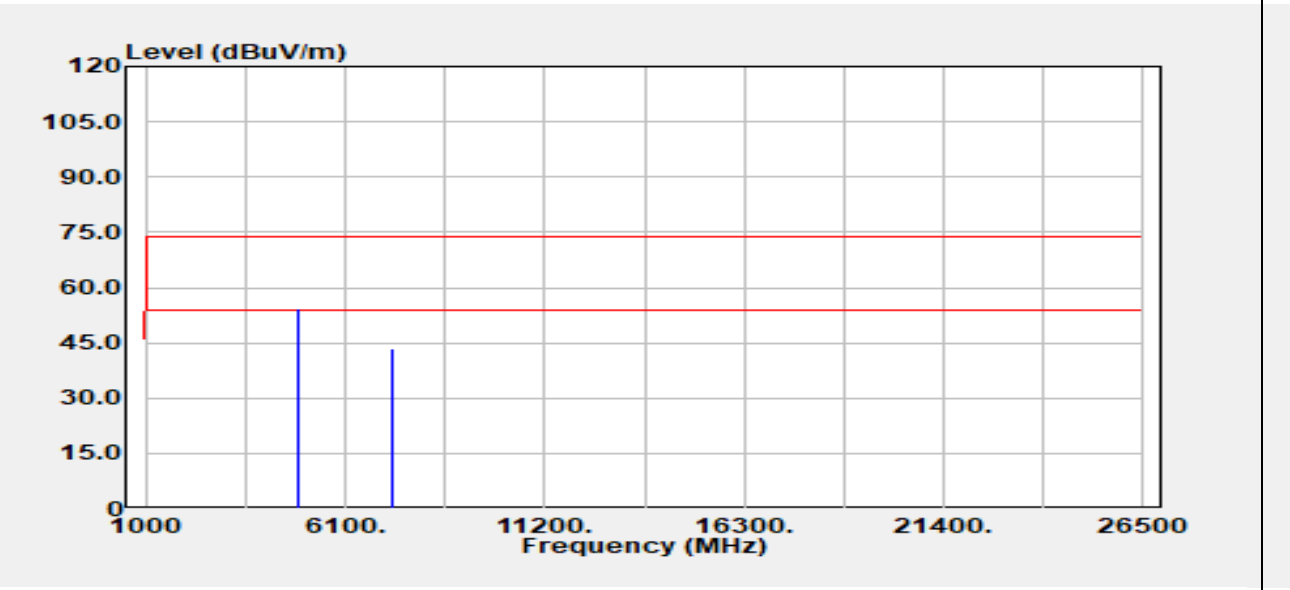


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	44.46	8.72	53.18	74.00	-20.82
4874.00	Average	37.82	8.72	46.55	54.00	-7.45
7311.00	Peak	37.39	12.50	49.89	74.00	-24.11
7311.00	Average	28.75	12.50	41.25	54.00	-12.75

Remark:

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

Test Mode	IEEE 802.11n HT40 Mid CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 3, 2023
Polarize	Horizontal	Test Engineer	Ray Li
Detector	Peak / Average		

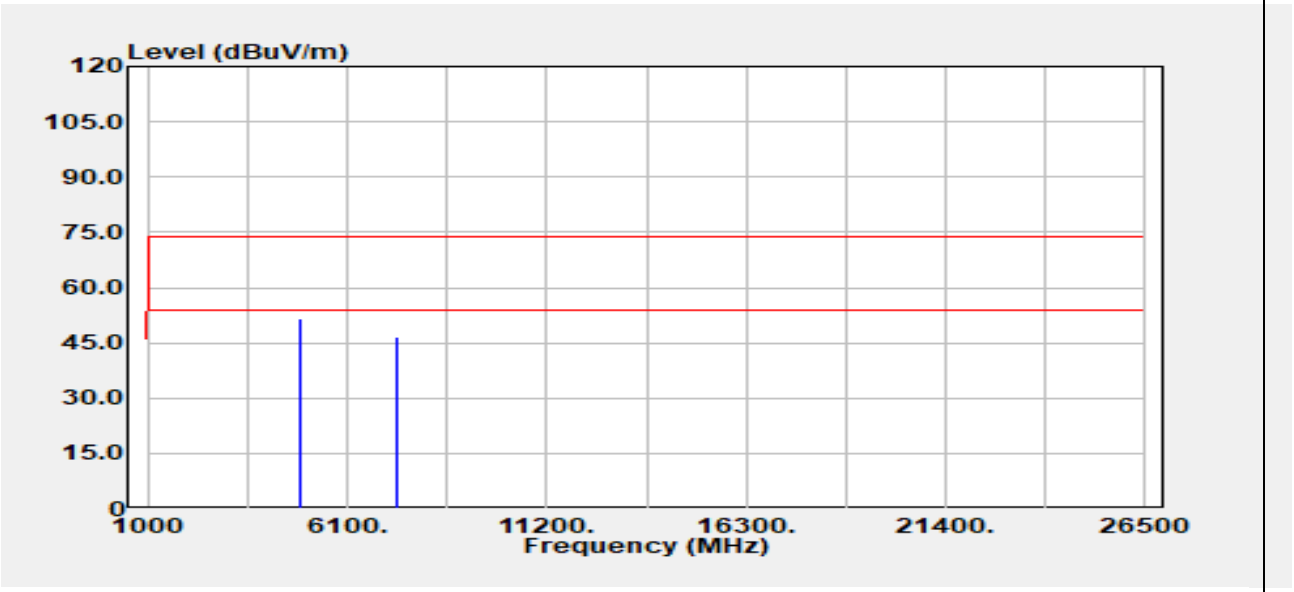


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4874.00	Peak	45.58	8.72	54.30	74.00	-19.70
4874.00	Average	40.10	8.72	48.83	54.00	-5.17
7311.00	Peak	31.08	12.50	43.58	74.00	-30.42
7311.00	Average	24.02	12.50	36.53	54.00	-17.47

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Vertical	Test Engineer	Czerny Lin
Detector	Peak / Average		

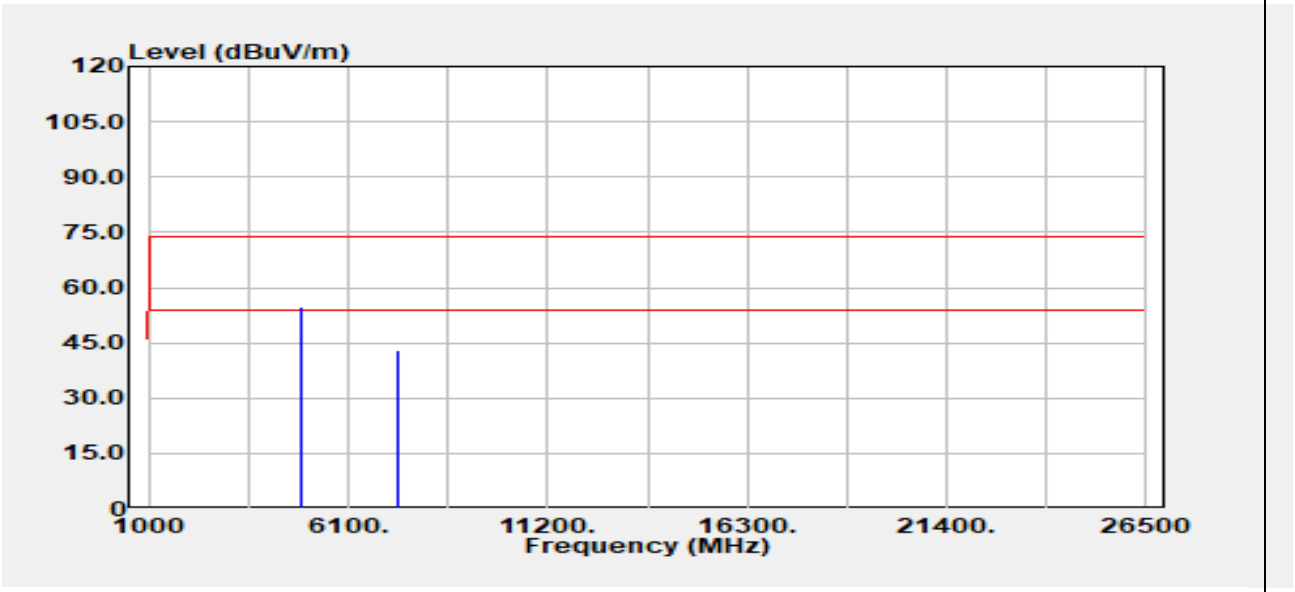


Freq. (MHz)	Detector Mode (PK/QP/AV)	Spectrum Reading Level (dBµV)	Factor (dB)	Actual FS (dBµV/m)	Limit @3m (dBµV/m)	Margin (dB)
4904.00	Peak	42.92	8.77	51.68	74.00	-22.32
4904.00	Average	35.45	8.77	44.22	54.00	-9.78
7356.00	Peak	34.15	12.55	46.70	74.00	-27.30
7356.00	Average	26.39	12.55	38.94	54.00	-15.06

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	20.4(℃)/ 63%RH
Test Item	Harmonic	Test Date	January 4, 2023
Polarize	Horizontal	Test Engineer	Czerny Lin
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)
4904.00	Peak	46.09	8.77	54.85	74.00	-19.15
4904.00	Average	38.75	8.77	47.52	54.00	-6.48
7356.00	Peak	30.59	12.55	43.14	74.00	-30.86
7356.00	Average	22.79	12.55	35.34	54.00	-18.66

Remark:

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

- End of Test Report -