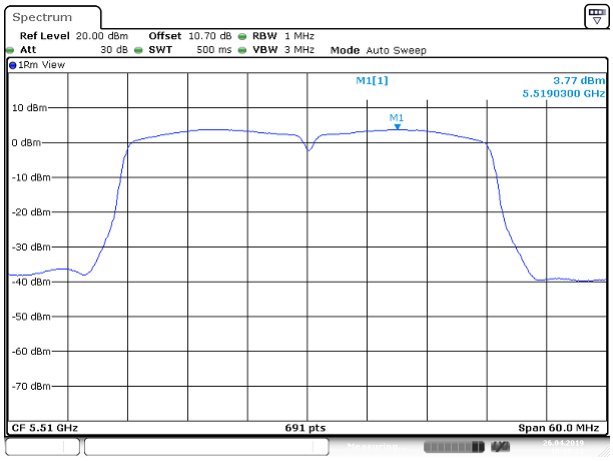
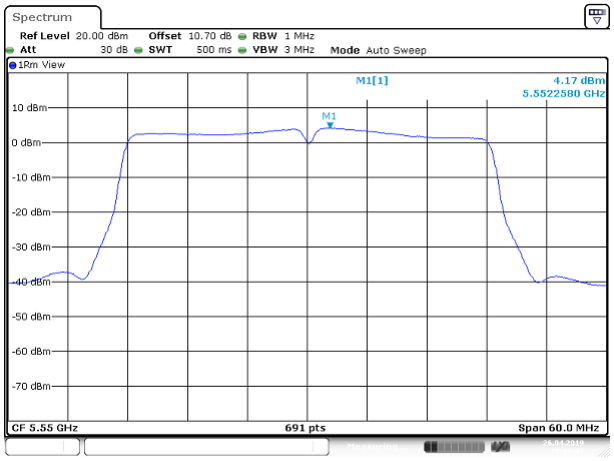
UNII-2c IEEE 802.11n 40 MHz mode- chain 1

Low CH



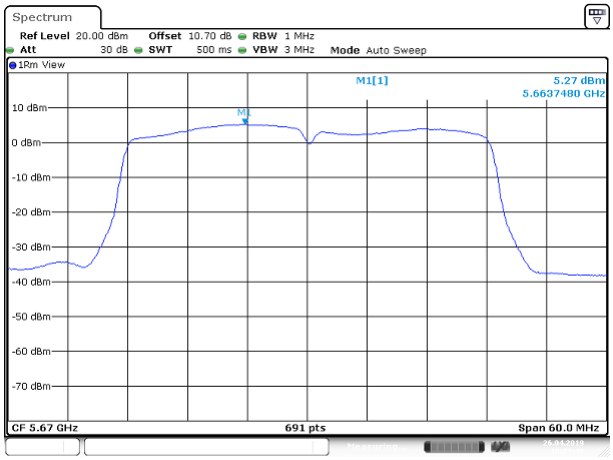
Date: 26.APR.2019 10:10:23

Mid CH



Date: 26.APR.2019 10:19:48

High CH



Date: 26.APR.2019 10:23:48

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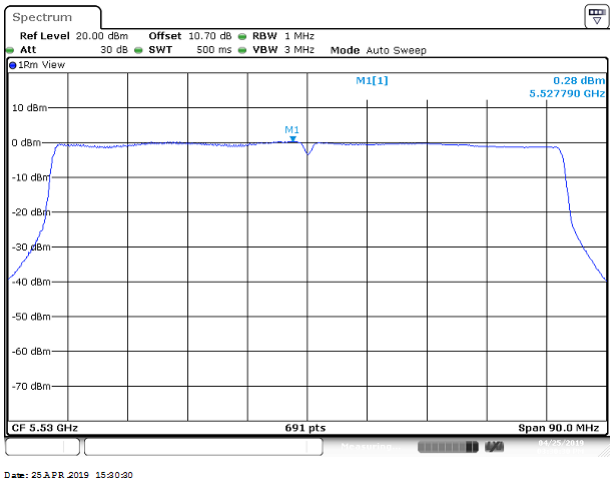
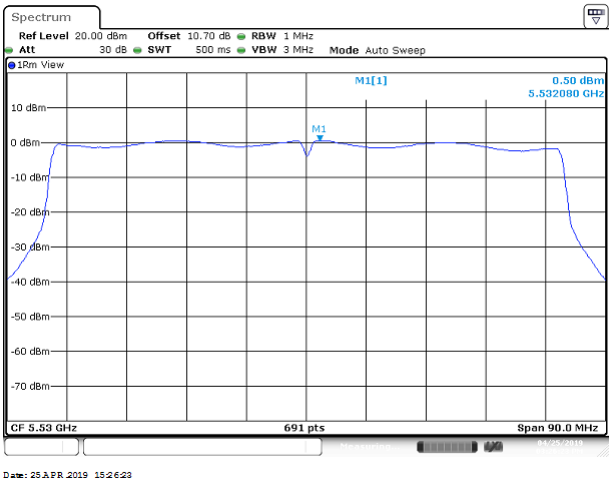
UNII-2c IEEE 802.11ac VHT80 mode	
Mid CH- chain 0	**Mid CH- chain 1**
	

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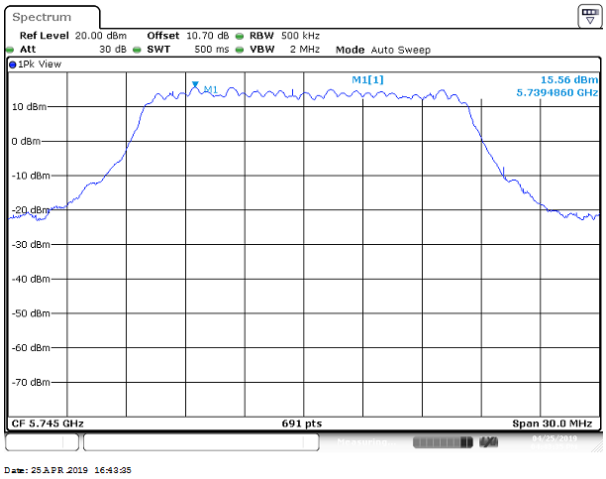
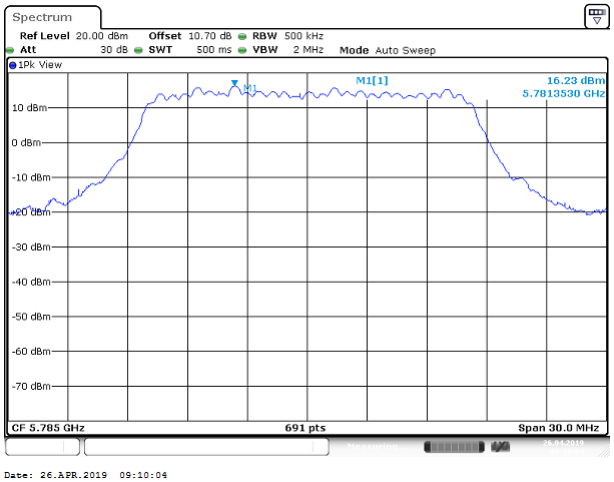
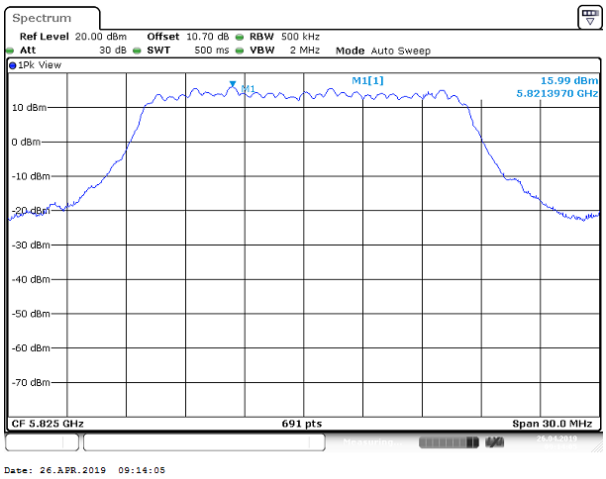
Test Data

UNII-3 IEEE 802.11a mode- chain 0	
Low CH	**Mid CH**
	
High CH	
	

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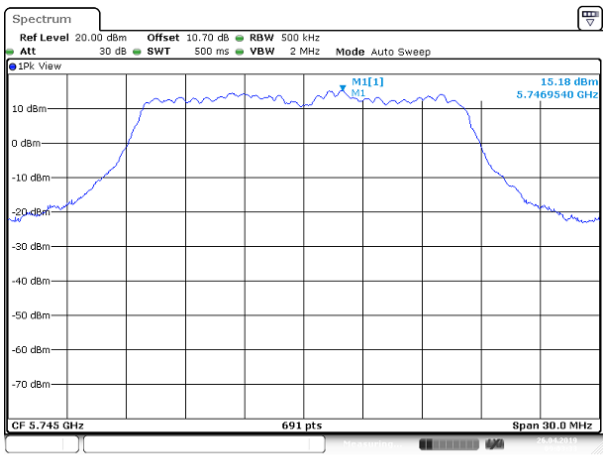
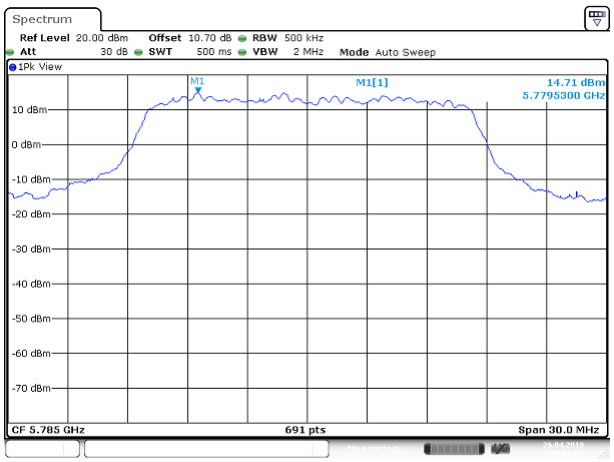
UNII-3 IEEE 802.11a mode- chain 1

Low CH



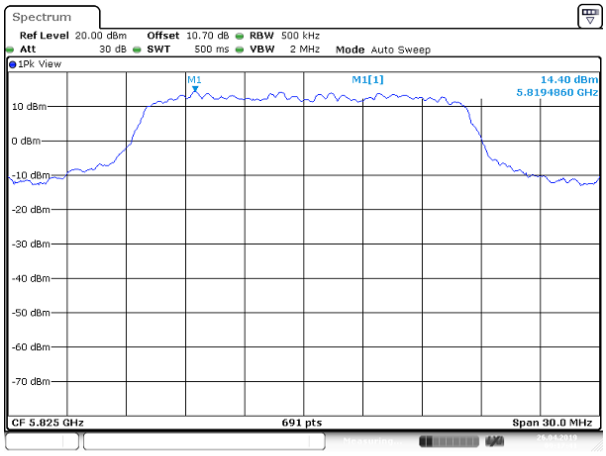
Date: 26.APR.2019 09:03:33

Mid CH



Date: 26.APR.2019 09:06:58

High CH



Date: 26.APR.2019 09:17:41

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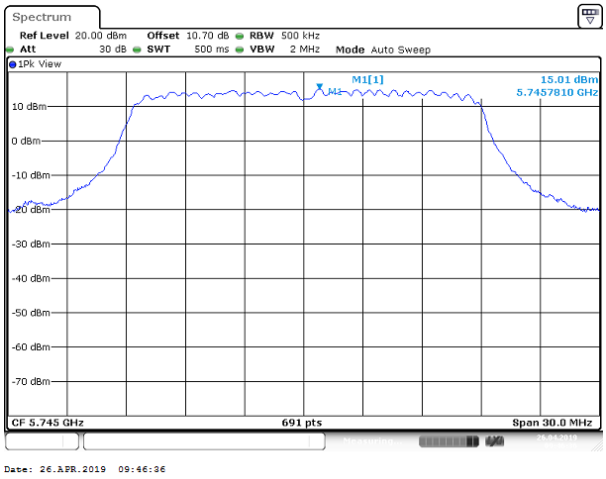
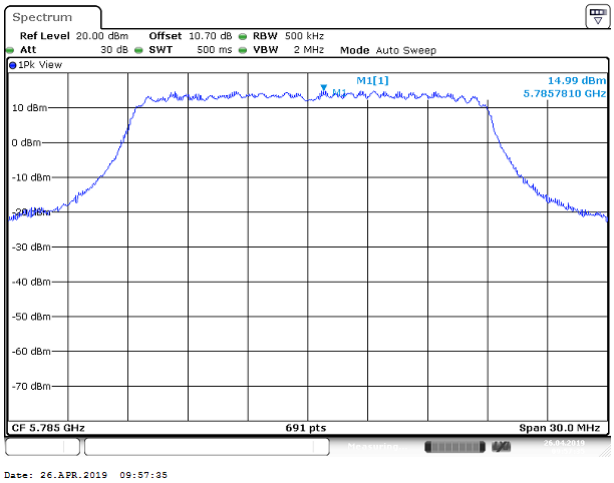
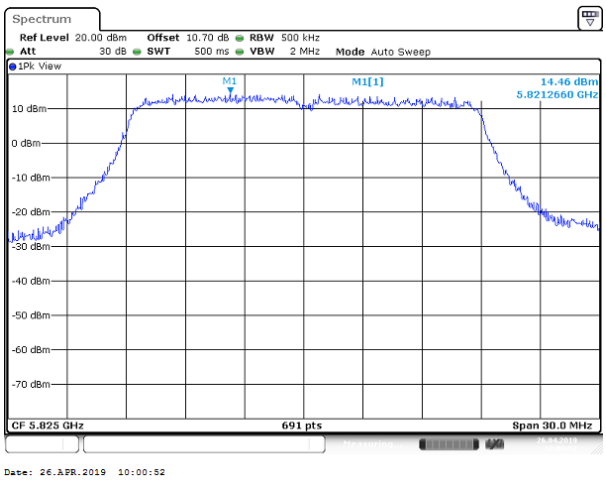
UNII-3 IEEE 802.11n 20 MHz mode- chain 0	
Low CH	**Mid CH**
	
High CH	
	

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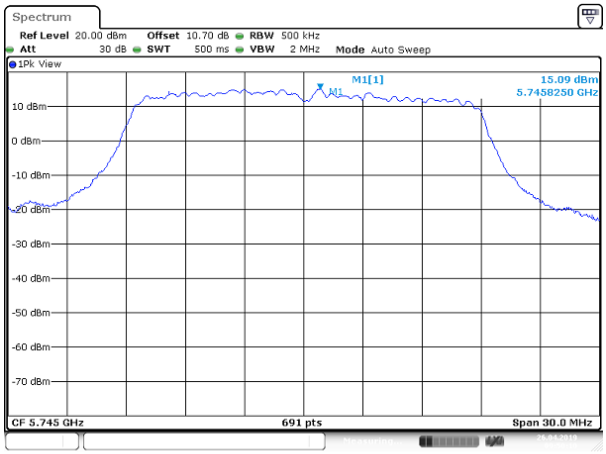
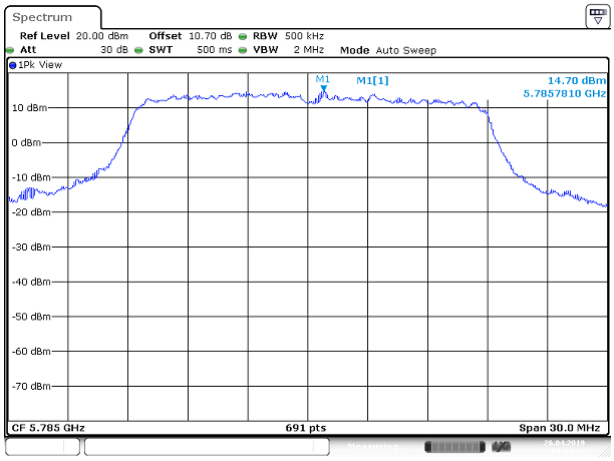
UNII-3 IEEE 802.11n 20 MHz mode- chain 1

Low CH



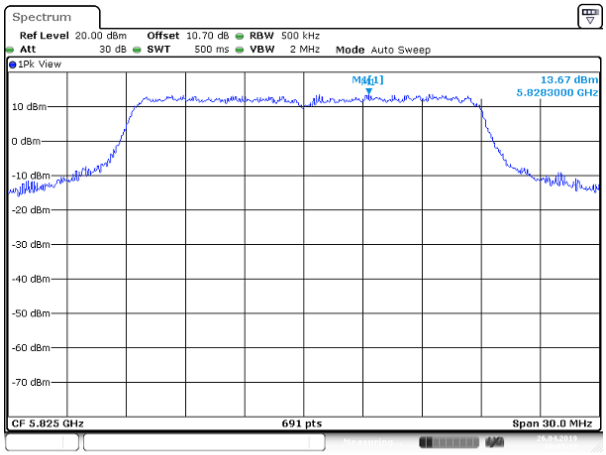
Date: 26.APR.2019 09:50:10

Mid CH



Date: 26.APR.2019 09:54:19

High CH



Date: 26.APR.2019 10:05:22

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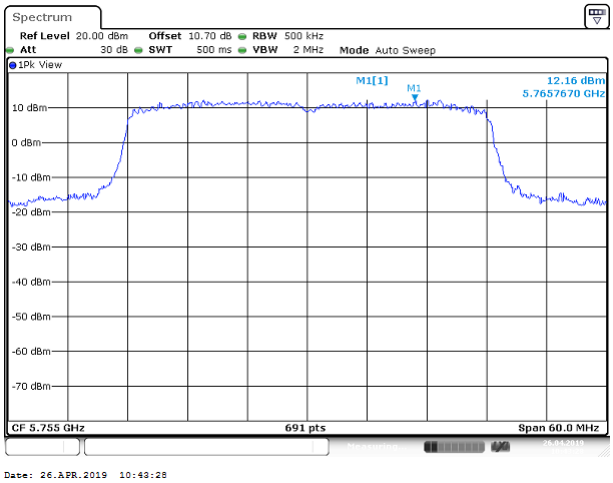
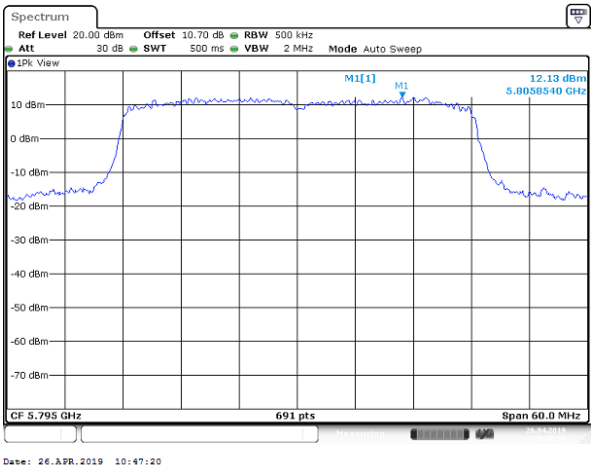
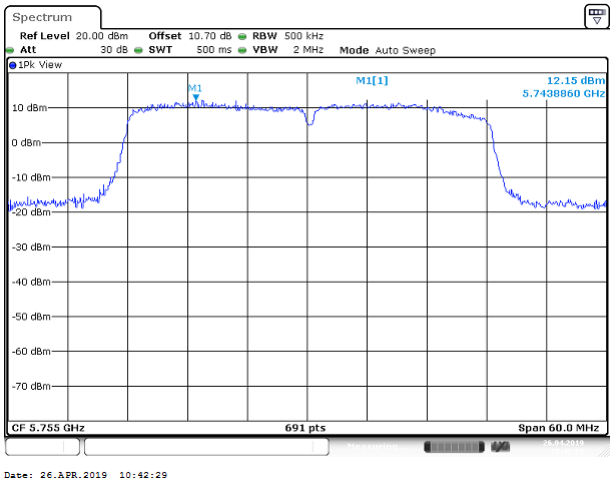
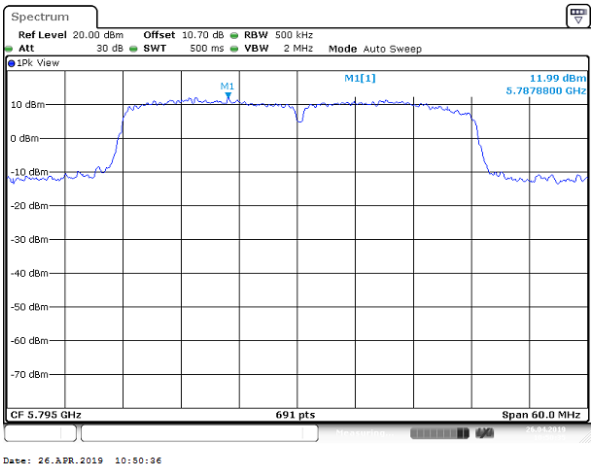
UNII-3 IEEE 802.11n 40 MHz mode- chain 0	
Low CH	**High CH**
	

UNII-3 IEEE 802.11n 40 MHz mode- chain 1	
Low CH	**High CH**
	

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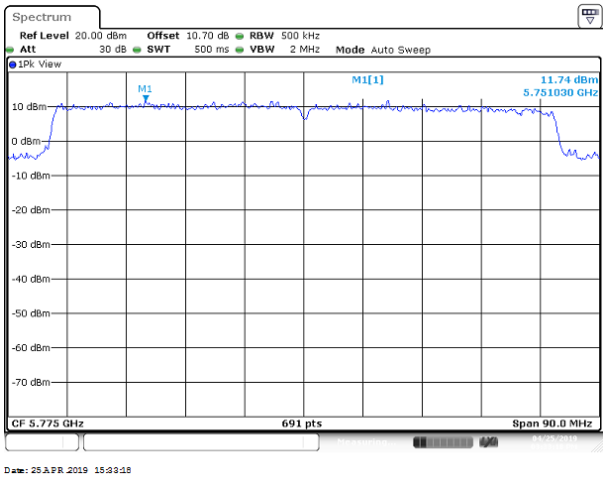
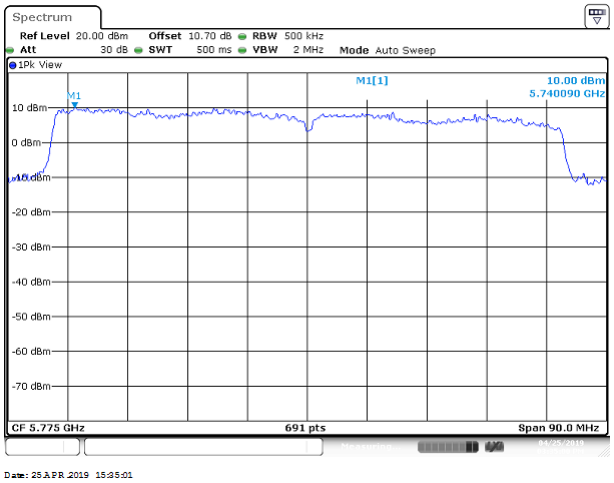
UNII-3 IEEE 802.11ac VHT80 mode	
Mid CH- chain 0	**Mid CH- chain 1**
	

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4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.5.1 Test Limit

FCC according to §15.407, §15.209 and §15.205

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 (MHz)	Field Strength microvolts/m at 3 metres (watts, e.i.r.p.)	
	Transmitters	Receivers
30-88	100 (3 nW)	100 (3 nW)
88-216	150 (6.8 nW)	150 (6.8 nW)
216-960	200 (12 nW)	200 (12 nW)
Above 960	500 (75 nW)	500 (75 nW)

UNII-1 :

For transmitters operating in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, any unwanted emissions that fall into the band 5250-5350 MHz must be 26 dBc, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth, above 5.25 GHz. Otherwise, the transmission is considered as intentional and the devices shall implement dynamic frequency selection (DFS) and transmitter power control (TPC) as per the requirements for the band 5250-5350 MHz

UNII-2a and 2c :

For devices with operating frequencies in the band 5250-5350 MHz but having a channel bandwidth that overlaps the band 5150-5250 MHz, the devices' unwanted emission shall not exceed -27 dBm/MHz e.i.r.p. outside the band 5150-5350 MHz and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device shall be labelled "for indoor use only." Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p.

UNII-3:

All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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4.5.2 Test Procedure

Test method Refer as KDB 789033 D02.

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.

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

5. 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.

Configuration	Duty Cycle (%)	T(ms)	1/T (Hz)	VBW Setting
802.11a	100%	1.0000	-	10Hz
802.11n HT20	99.01%	5.0000	-	10Hz
802.11n HT40	97.66%	2.4580	0.407	430Hz
802.11ac VHT80	96.55%	1.1750	0.851	910Hz

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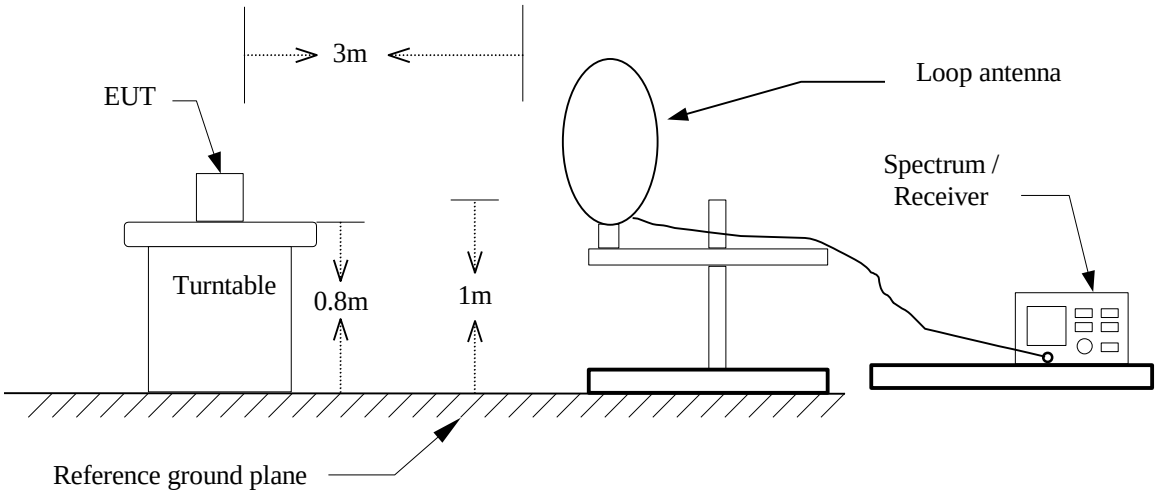
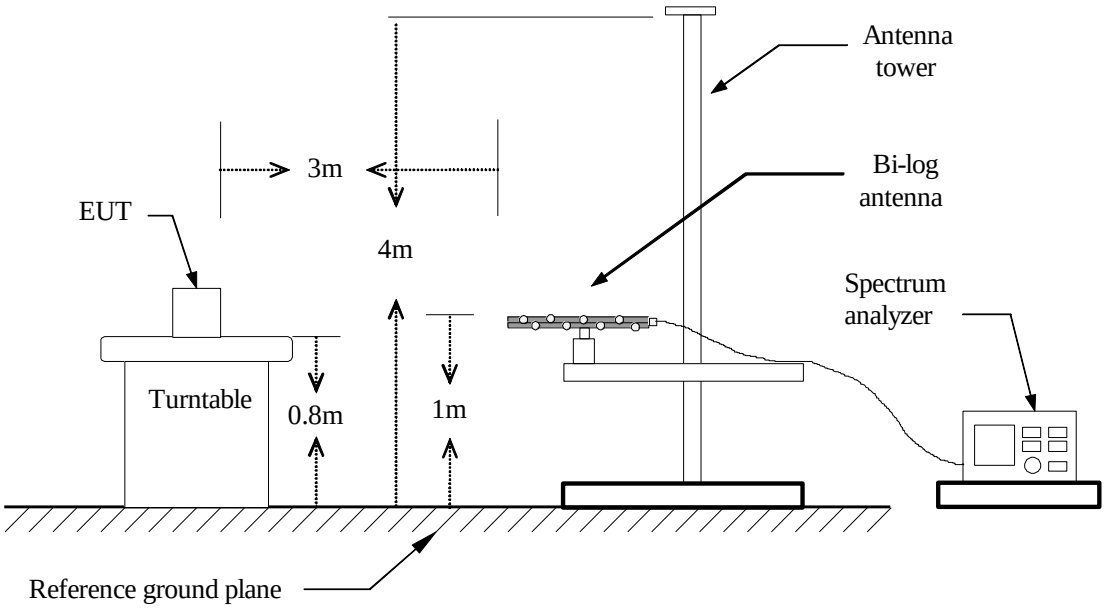
4.5.3 Test Setup

9kHz ~ 30MHz



30MHz ~ 1GHz



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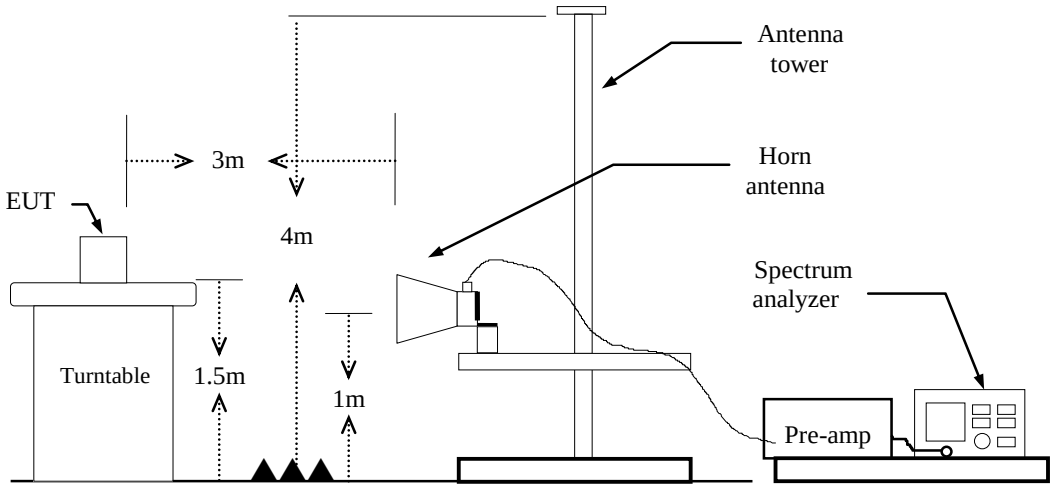
Above 1 GHz



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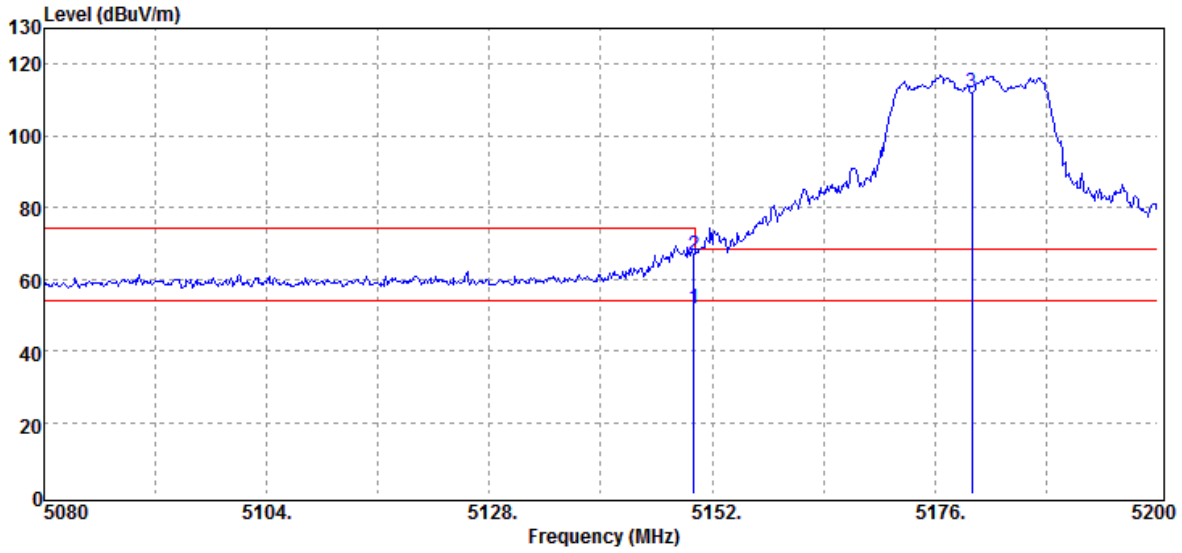
4.5.4 Test Result

Test Data

Band Edge Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	23(℃)/ 50%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	46.78	4.92	51.70	54.00	-2.30	Average
5150.00	61.48	4.92	66.40	74.00	-7.60	Peak
5180.00	107.22	4.95	112.17	68.20	-	-

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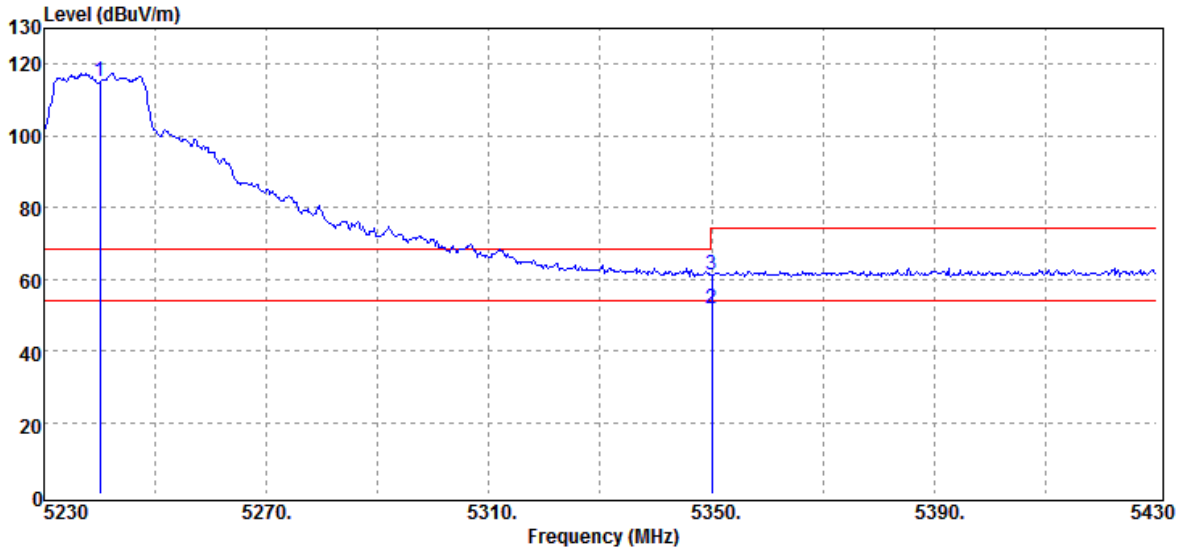
Test Mode	IEEE 802.11a / 5240MHZ	Temp/Hum	22(℃)/ 51%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5240.00	110.07	4.88	114.95	68.20	-	-
5350.00	46.36	5.21	51.57	54.00	-2.43	Average
5350.00	56.04	5.21	61.25	74.00	-12.75	Peak

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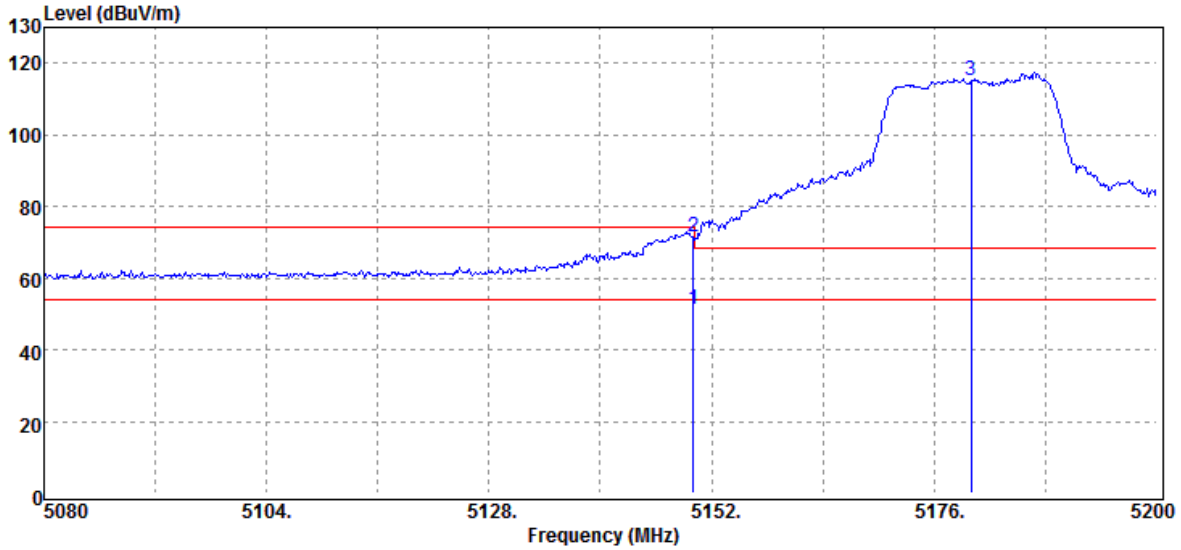
Test Mode	IEEE 802.11n 20 MHz / 5180MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	46.28	4.92	51.20	54.00	-2.80	Average
5150.00	66.60	4.92	71.52	74.00	-2.48	Peak
5180.00	110.06	4.95	115.01	68.20	-	-

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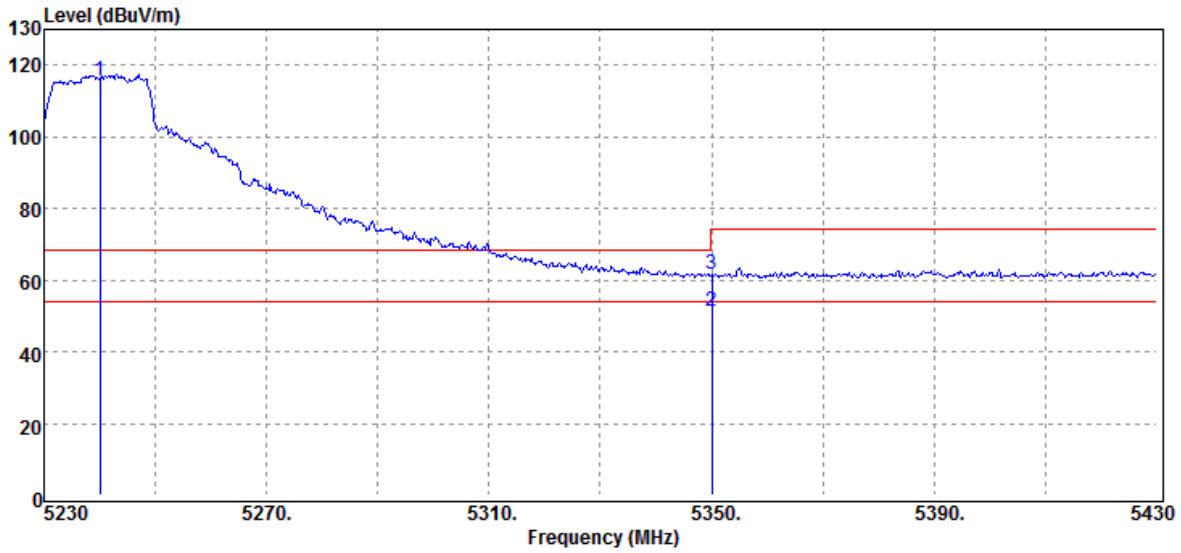
Test Mode	IEEE 802.11n 20 MHz / 5240MHZ	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5240.00	110.81	4.88	115.69	68.20	-	-
5350.00	46.19	5.21	51.40	54.00	-2.60	Average
5350.00	56.20	5.21	61.41	74.00	-12.59	Peak

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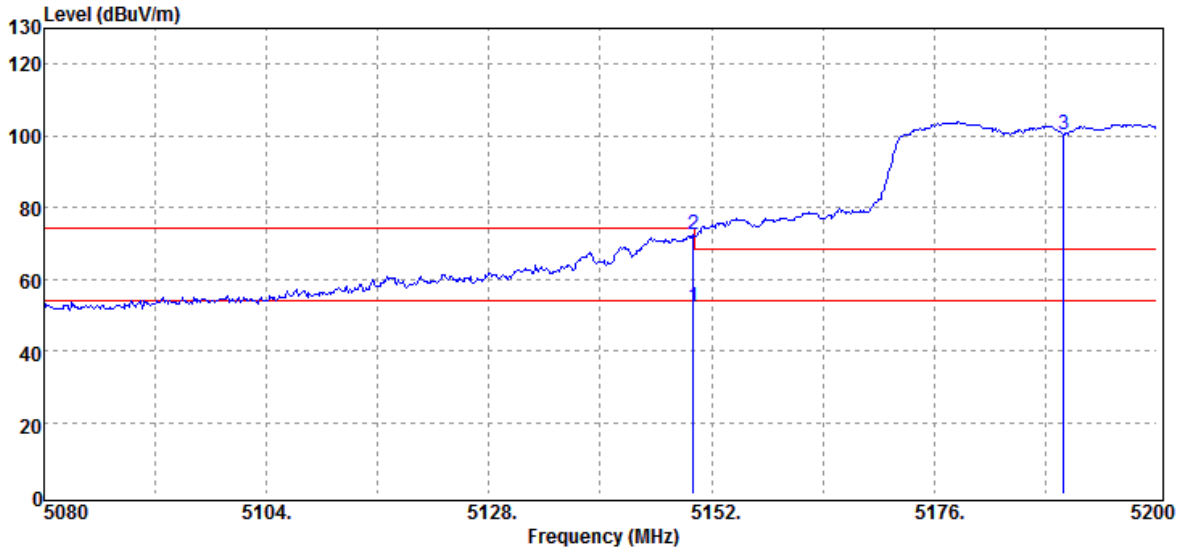
Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	47.32	4.92	52.24	54.00	-1.76	Average
5150.00	67.37	4.92	72.29	74.00	-1.71	Peak
5190.00	95.27	4.95	100.22	68.20	-	-

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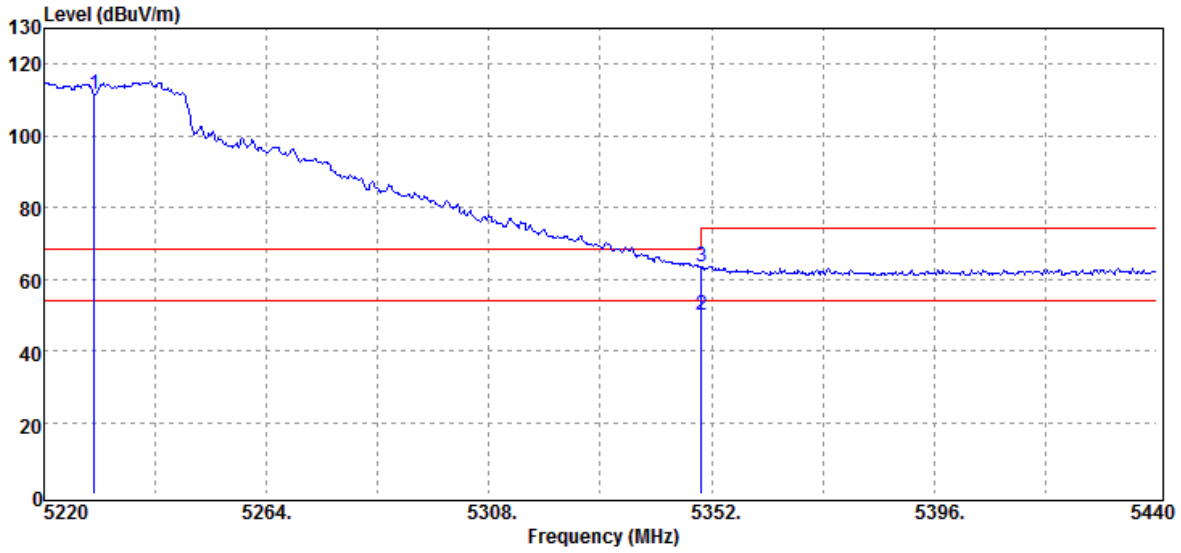
Test Mode	IEEE 802.11n 40 MHz / 5230MHZ	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5230.00	106.64	4.90	111.54	68.20	-	-
5350.00	44.59	5.21	49.80	54.00	-4.20	Average
5350.00	58.03	5.21	63.24	74.00	-10.76	Peak

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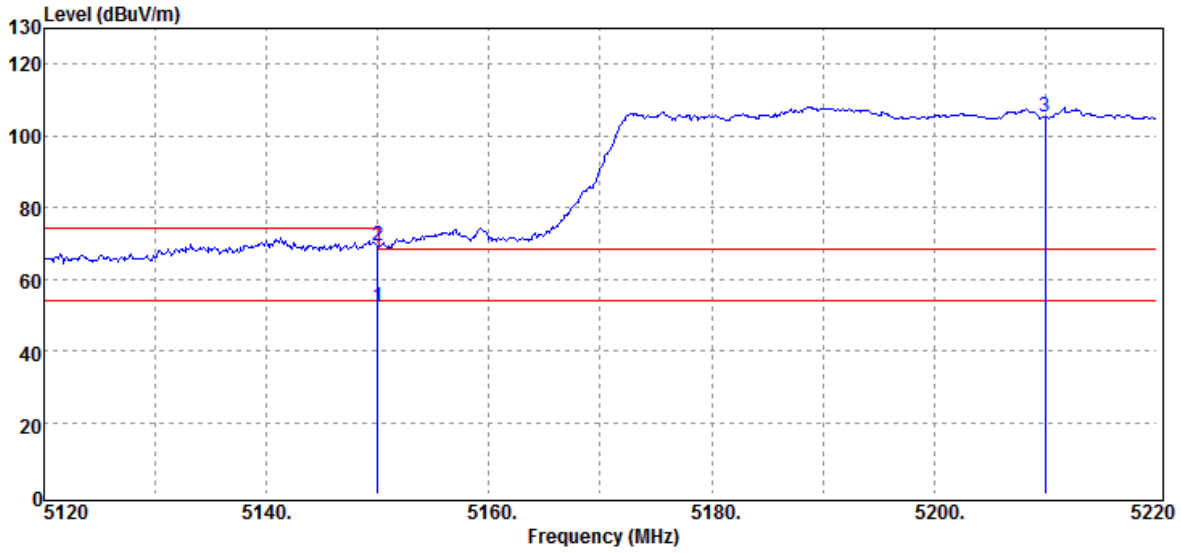
Test Mode	I EEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	47.16	4.92	52.08	54.00	-1.92	Average
5150.00	64.31	4.92	69.23	74.00	-4.77	Peak
5210.00	100.29	4.94	105.23	68.20	-	-

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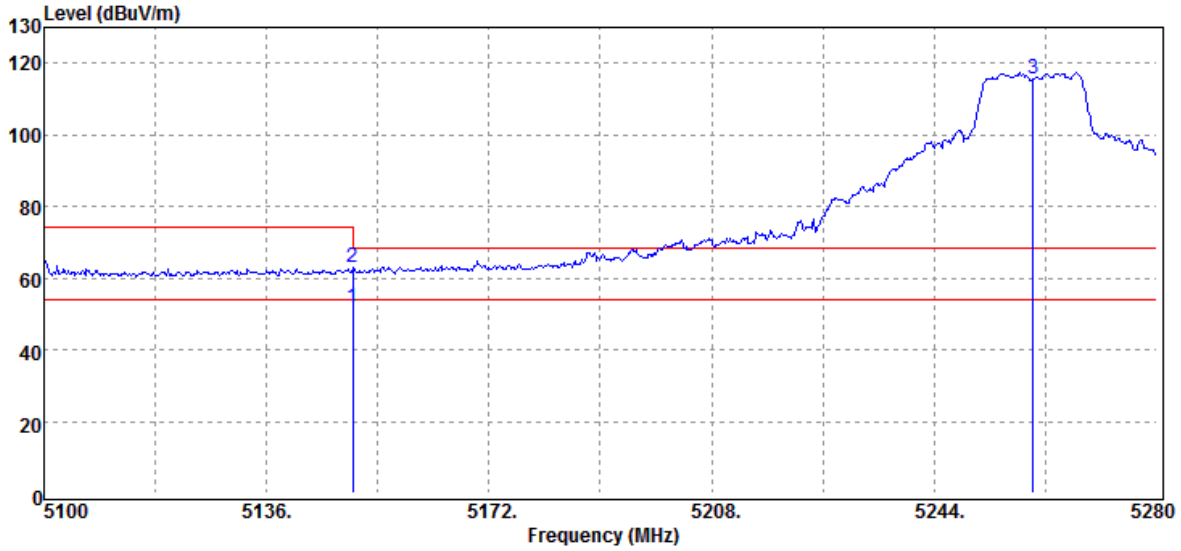
Band Edge Test Data for UNII-2a

Test Mode	IEEE 802.11a / 5260 MHz	Temp/Hum	21(℃)/ 51%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	46.85	4.92	51.77	54.00	-2.23	Average
5150.00	58.27	4.92	63.19	74.00	-10.81	Peak
5260.00	110.53	4.89	115.42	68.20	-	-

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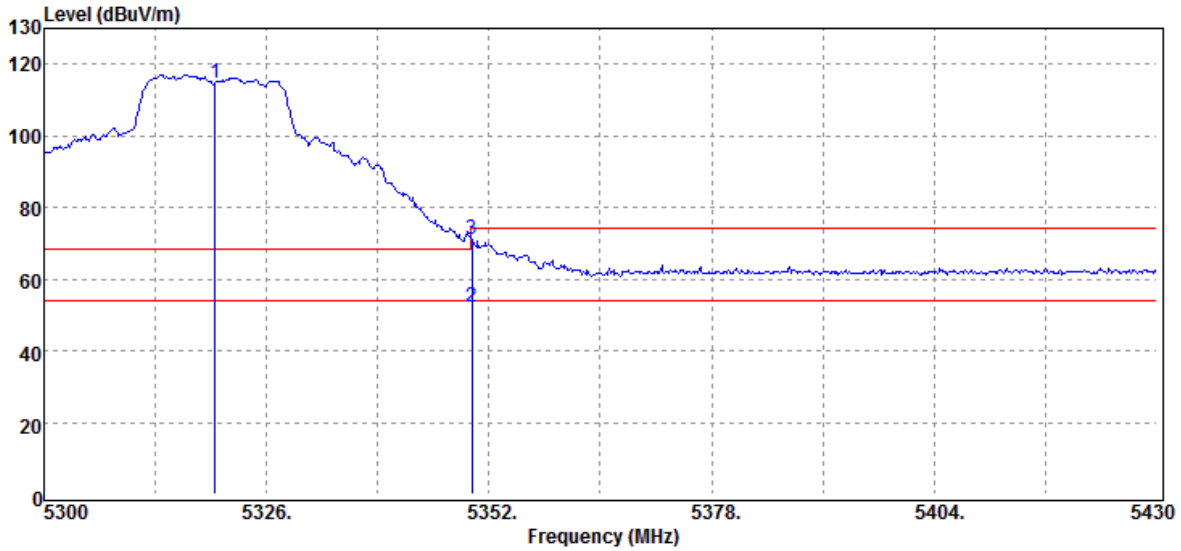
Test Mode	IEEE 802.11a / 5320MHz	Temp/Hum	22(℃)/ 51%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5320.00	109.54	5.07	114.61	68.20	-	-
5350.00	47.01	5.21	52.22	54.00	-1.78	Average
5350.00	65.78	5.21	70.99	74.00	-3.01	Peak

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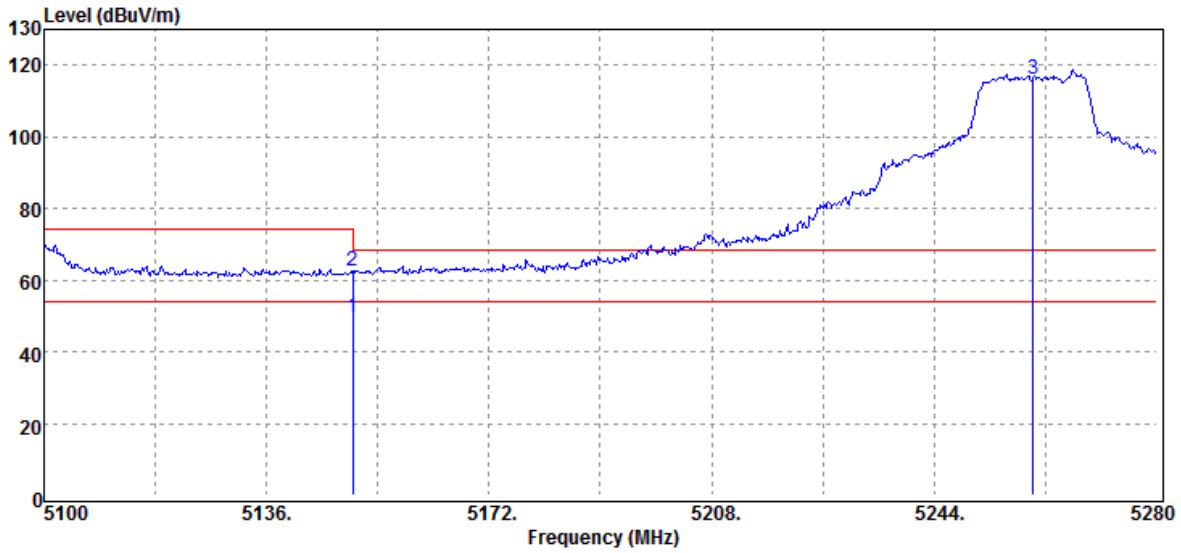
Test Mode	IEEE 802.11n 20 MHz / 5260MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	44.75	4.92	49.67	54.00	-4.33	Average
5150.00	57.59	4.92	62.51	74.00	-11.49	Peak
5260.00	111.39	4.89	116.28	68.20	-	-

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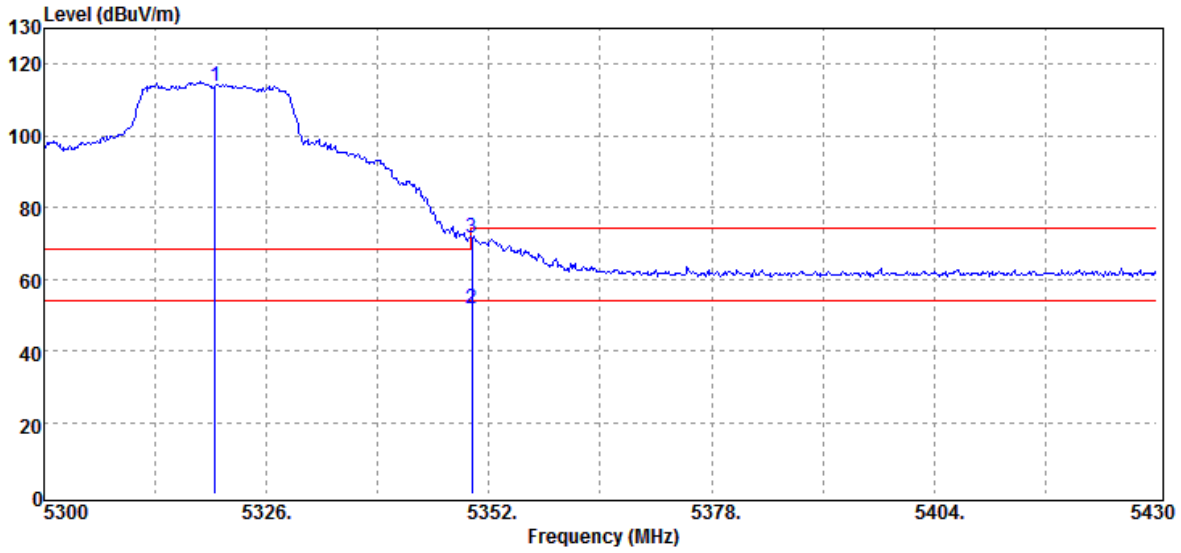
Test Mode	IEEE 802.11n 20 MHz / 5320MHz	Temp/Hum	24(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5320.00	108.77	5.07	113.84	68.20	-	-
5350.00	46.70	5.21	51.91	54.00	-2.09	Average
5350.00	66.20	5.21	71.41	74.00	-2.59	Peak

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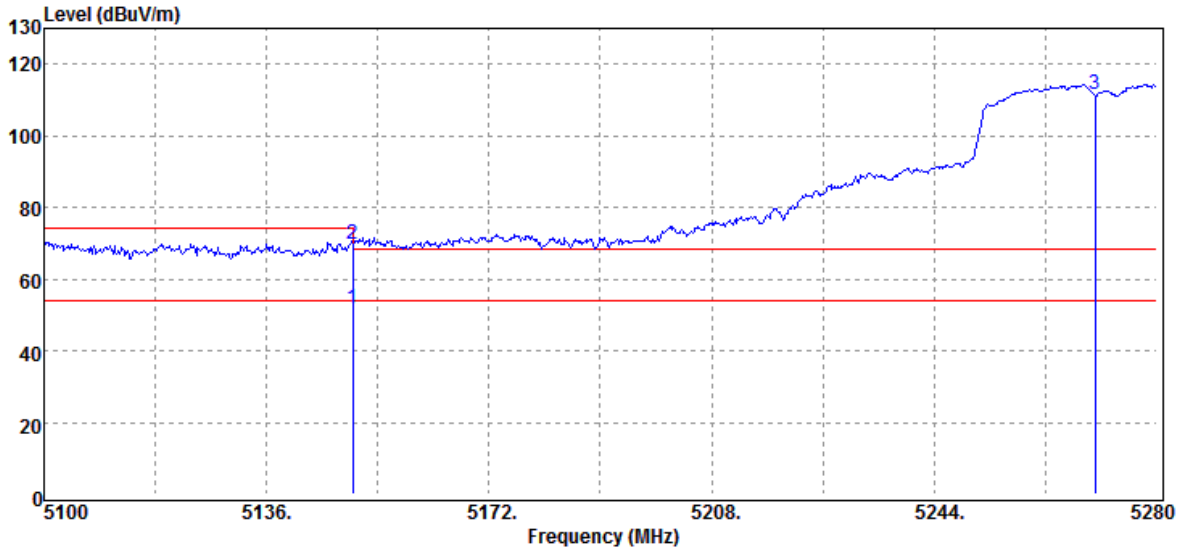
Test Mode	IEEE 802.11n 40 MHz / 5270MHz	Temp/Hum	24(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	46.95	4.92	51.87	54.00	-2.13	Average
5150.00	64.86	4.92	69.78	74.00	-4.22	Peak
5270.00	106.48	4.90	111.38	68.20	-	-

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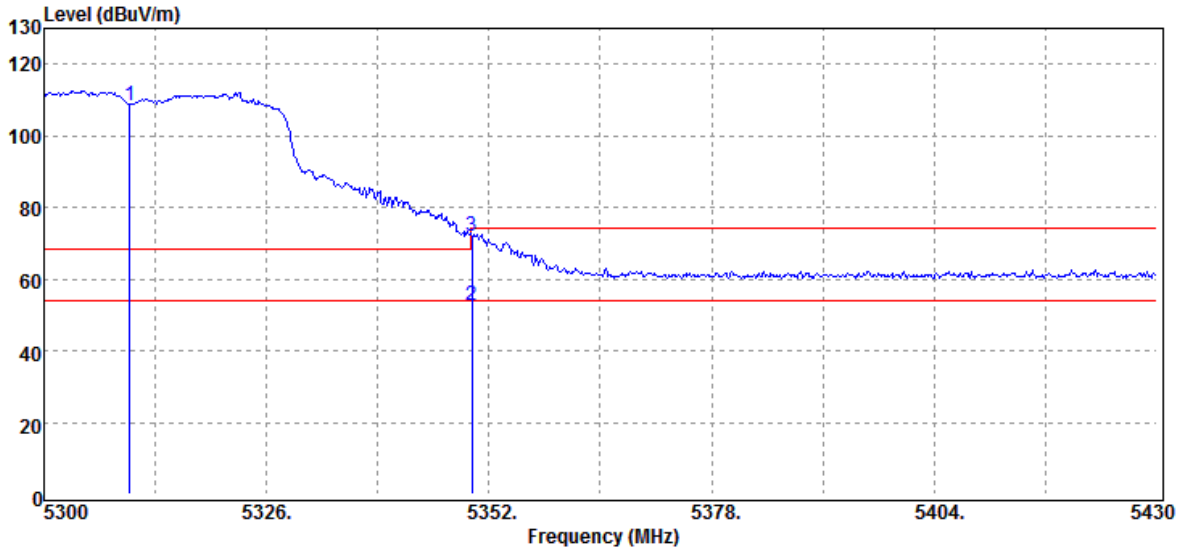
Test Mode	IEEE 802.11n 40 MHz / 5310MHz	Temp/Hum	24(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5310.00	103.44	5.03	108.47	68.20	-	-
5350.00	47.34	5.21	52.55	54.00	-1.45	Average
5350.00	66.69	5.21	71.90	74.00	-2.10	Peak

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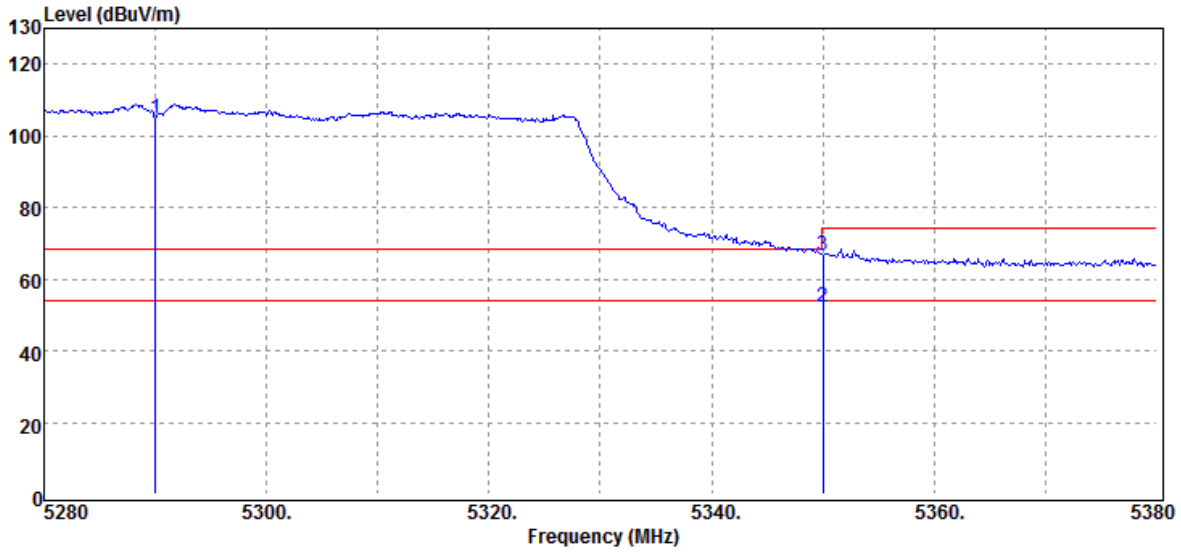
Test Mode	IEEE 802.11ac VHT80 / 5290MHz	Temperature	22(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5290.00	100.06	4.95	105.01	68.20	-	-
5350.00	46.78	5.21	51.99	54.00	-2.01	Average
5350.00	61.34	5.21	66.55	74.00	-7.45	Peak

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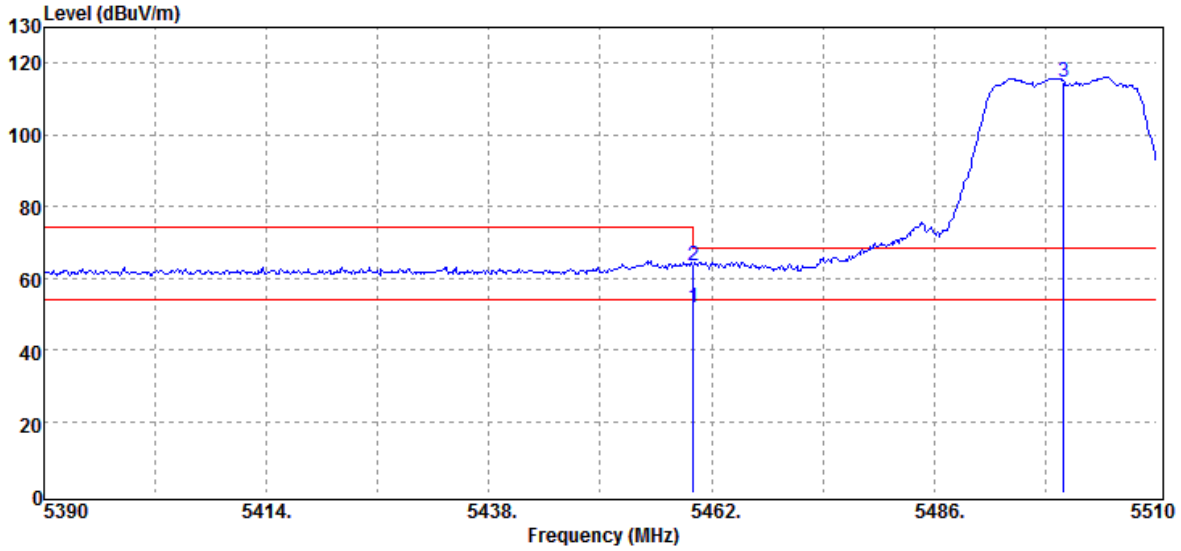
Band Edge Test Data for UNII-2c

Test Mode	IEEE 802.11a / 5500MHz	Temp/Hum	23(℃)/ 52%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.00	46.18	5.63	51.81	54.00	-2.19	Average
5460.00	57.94	5.63	63.57	74.00	-10.43	Peak
5500.00	108.85	5.71	114.56	68.20	-	-

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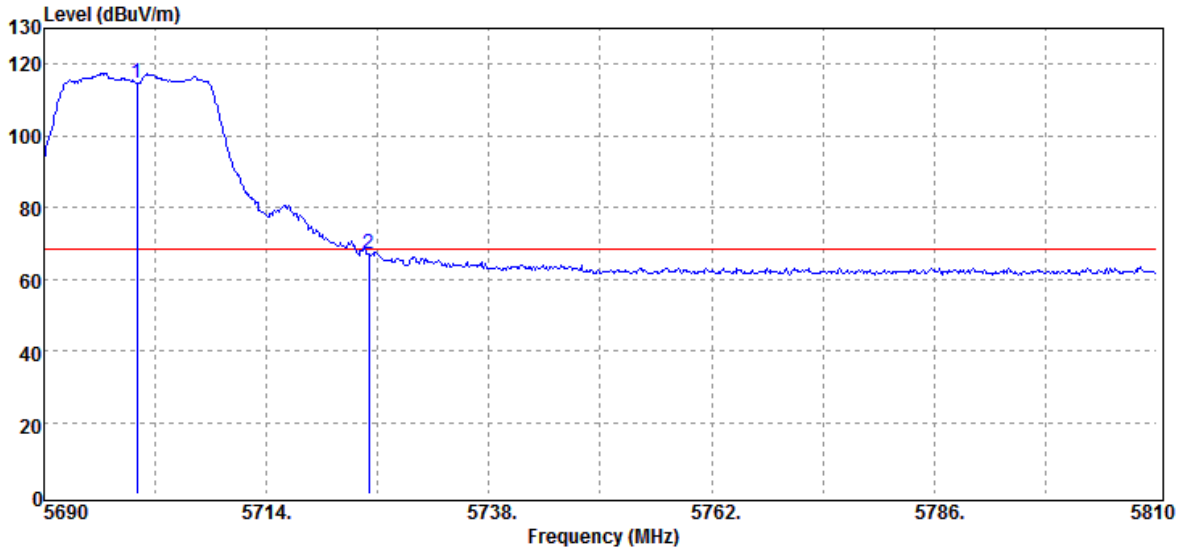
Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	23(℃)/ 52%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5700.00	108.34	6.32	114.66	68.20	-	-
5725.00	60.64	6.34	66.98	68.20	-1.22	Peak

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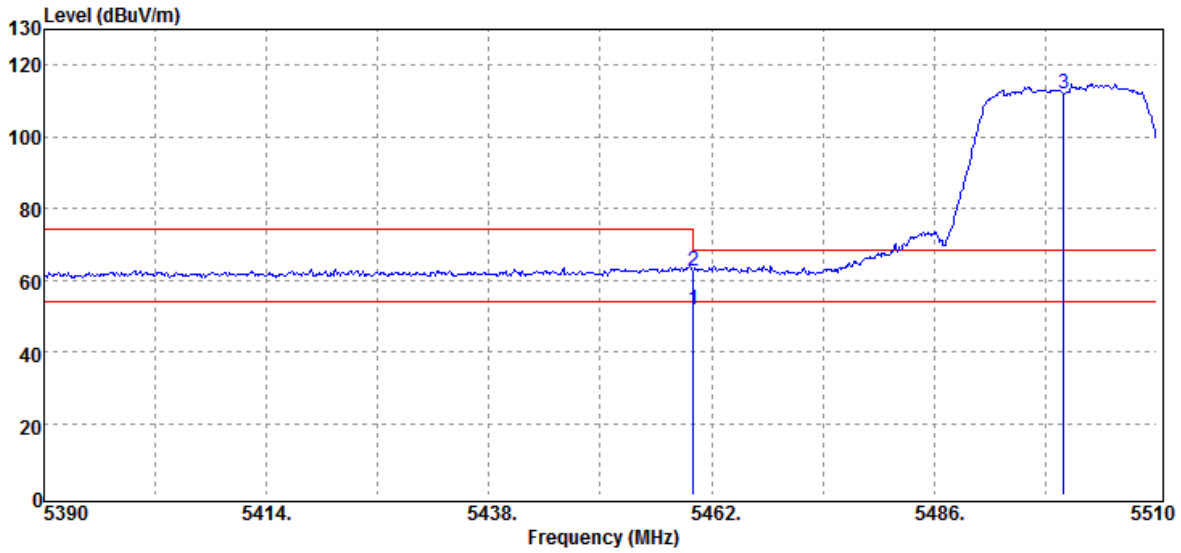
Test Mode	IEEE 802.11n 20 MHz / 5500MHz	Temp/Hum	23(℃)/ 52%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.00	46.14	5.63	51.77	54.00	-2.23	Average
5460.00	56.68	5.63	62.31	74.00	-11.69	Peak
5500.00	106.26	5.71	111.97	68.20	-	-

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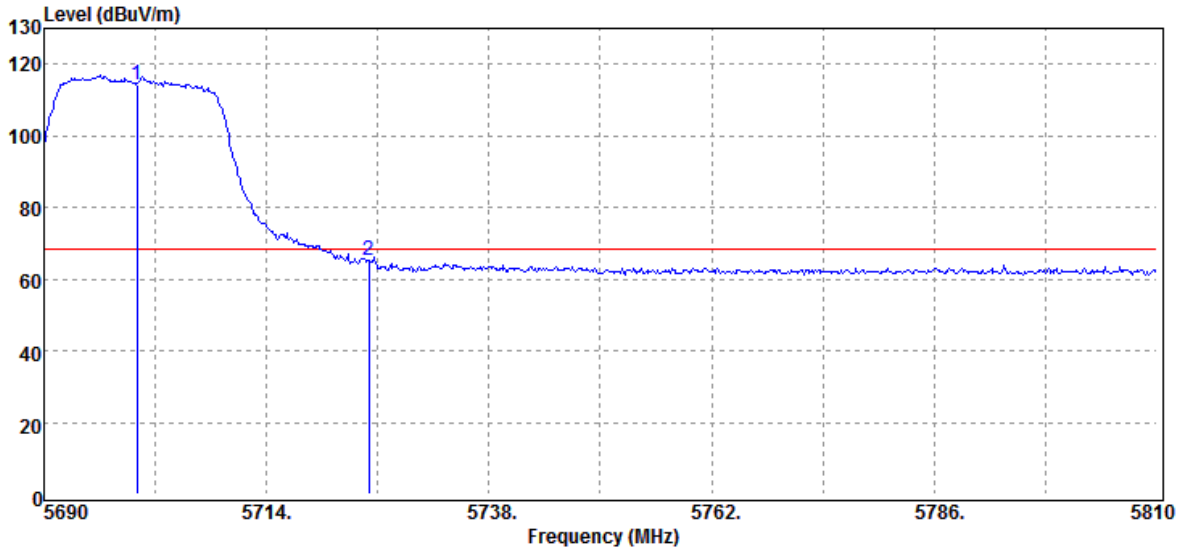
Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temp/Hum	23(℃)/ 52%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5700.00	108.13	6.32	114.45	68.20	-	-
5725.00	58.89	6.34	65.23	68.20	-2.97	Peak

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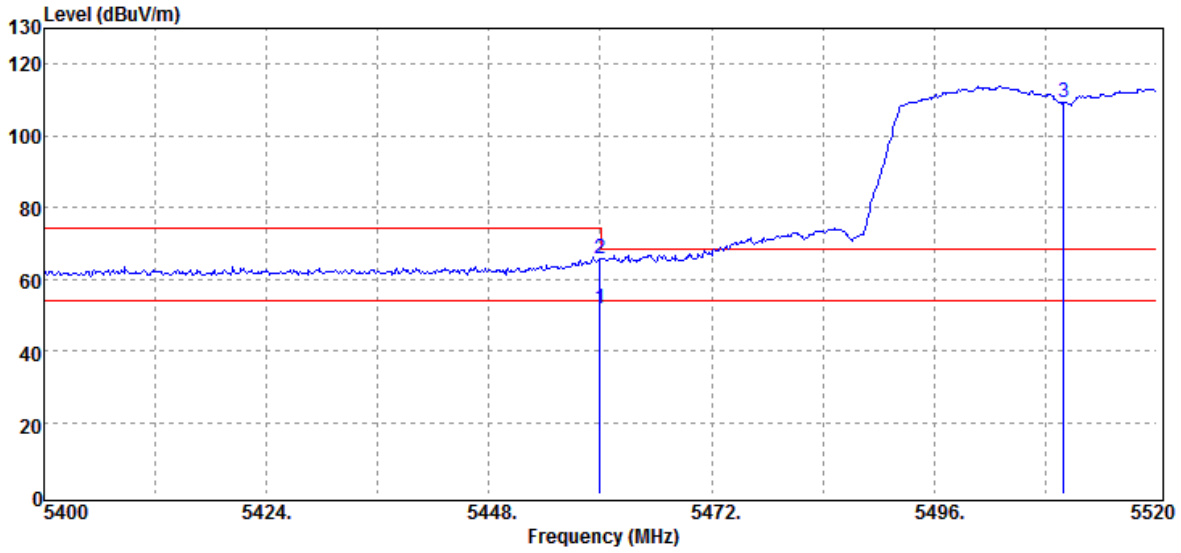
Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.00	46.02	5.63	51.65	54.00	-2.35	Average
5460.00	60.01	5.63	65.64	74.00	-8.36	Peak
5510.00	103.74	5.70	109.44	68.20	-	-

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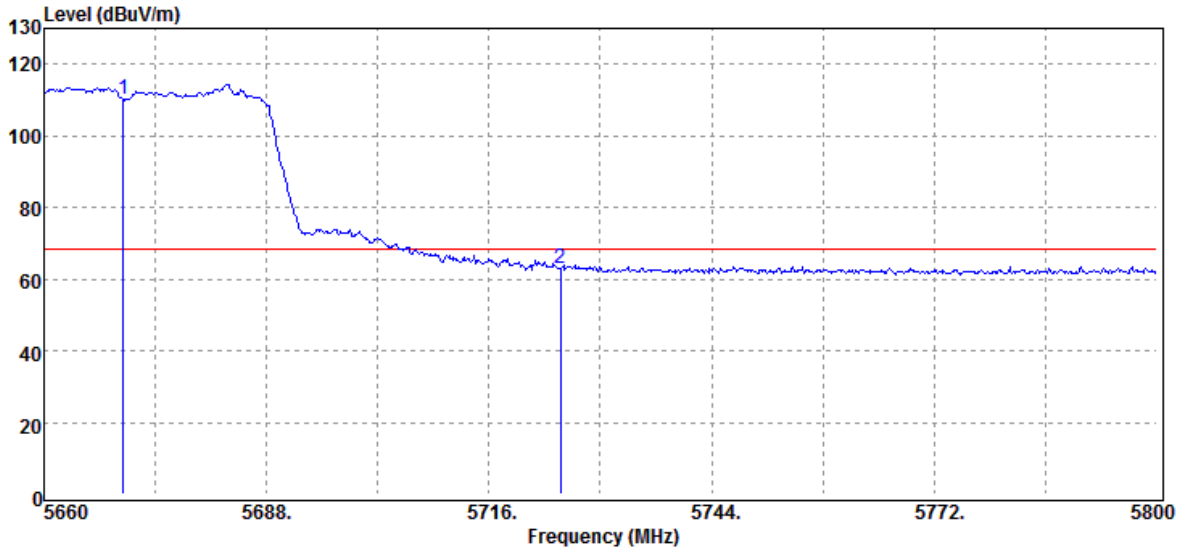
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5670.00	104.11	6.13	110.24	68.20	-	-
5725.00	56.63	6.34	62.97	68.20	-5.23	Peak

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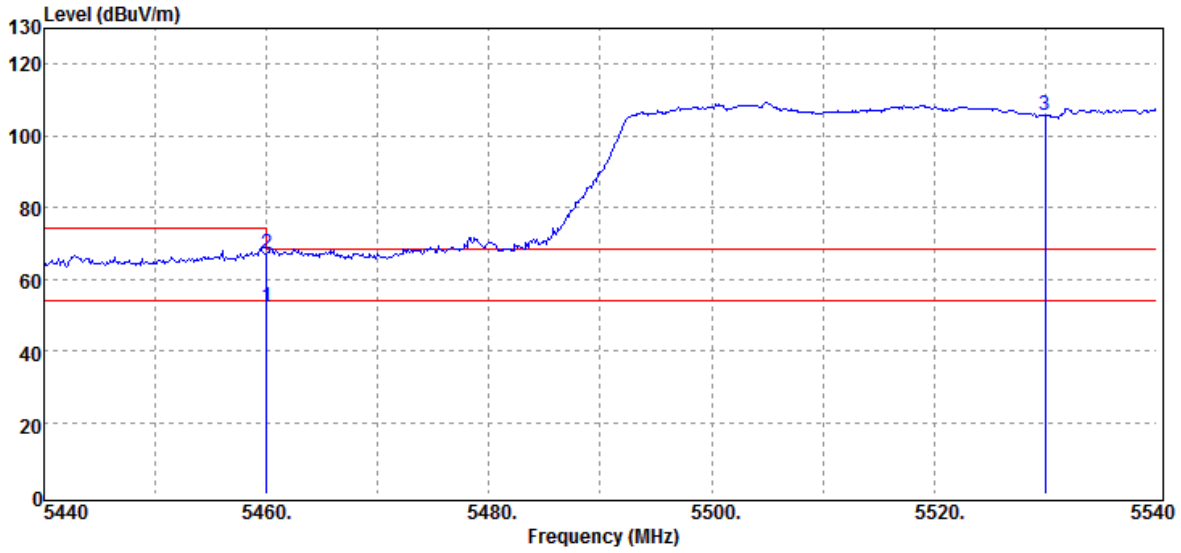
Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temperature	24(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5460.00	46.48	5.63	52.11	54.00	-1.89	Average
5460.00	61.56	5.63	67.19	74.00	-6.81	Peak
5530.00	99.89	5.68	105.57	68.20	-	-

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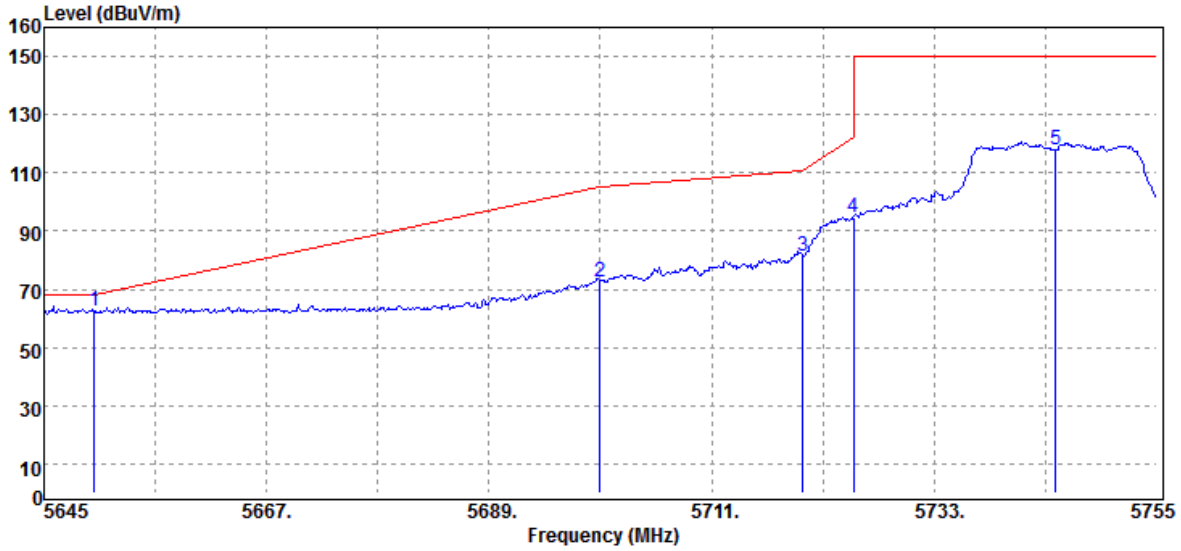
Band Edge Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	23(℃)/ 51%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	56.70	6.04	62.74	68.20	-5.46	Peak
5700.00	66.22	6.32	72.54	105.20	-32.66	Peak
5720.00	74.99	6.33	81.32	110.80	-29.48	Peak
5725.00	88.24	6.34	94.58	122.20	-27.62	Peak
5745.00	111.44	6.37	117.81	150.00	-32.19	Peak

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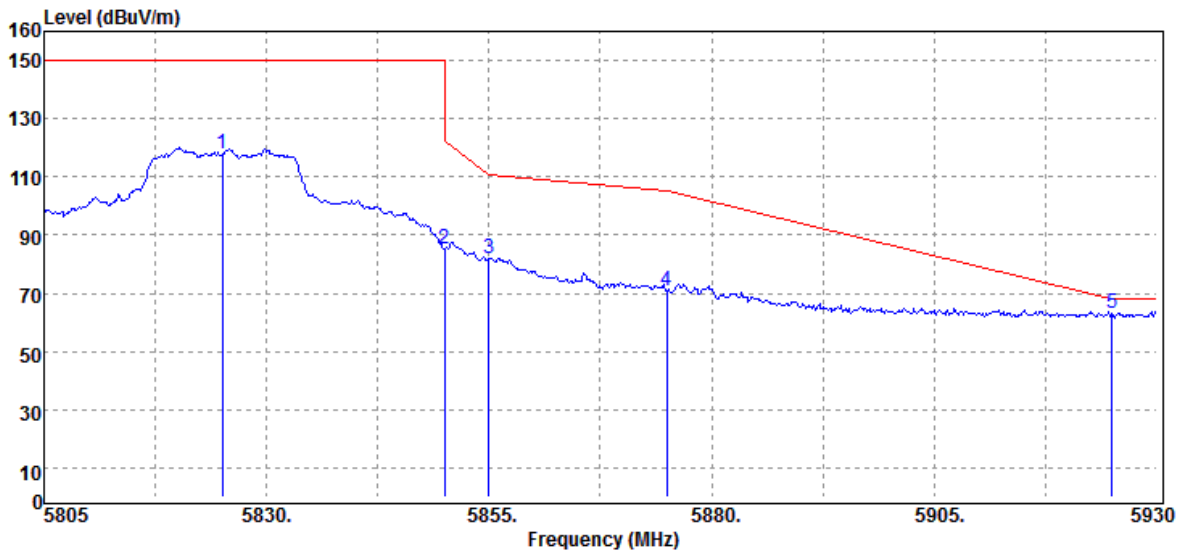
Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	23(℃)/ 52%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5825.00	111.58	6.32	117.90	150.00	-32.10	Peak
5850.00	78.90	6.39	85.29	122.20	-36.91	Peak
5855.00	75.83	6.38	82.21	110.80	-28.59	Peak
5875.00	64.40	6.37	70.77	105.20	-34.43	Peak
5925.00	56.44	6.42	62.86	68.20	-5.34	Peak

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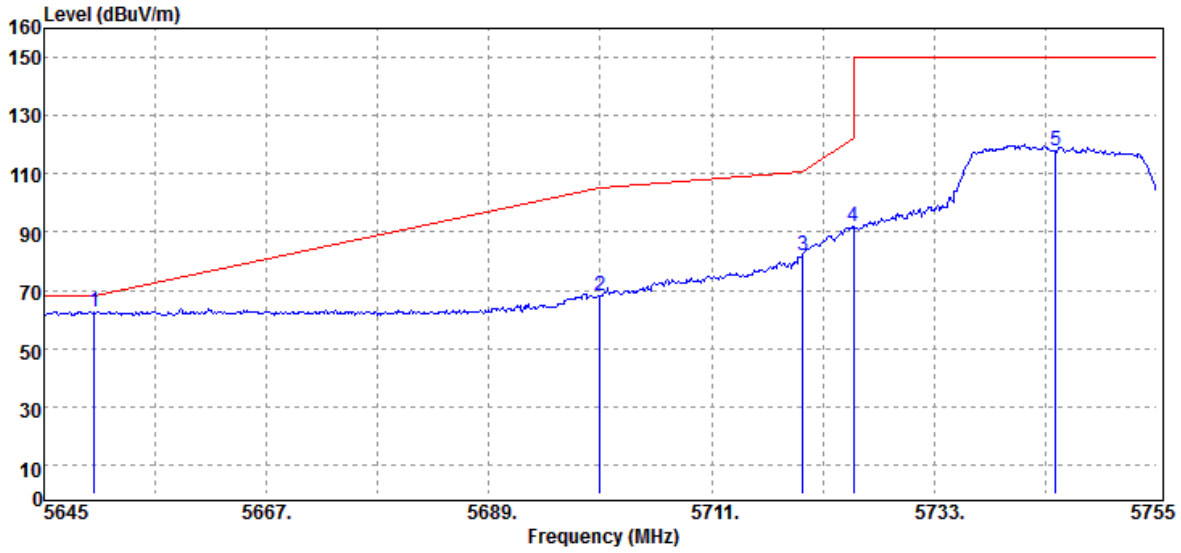
Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	56.33	6.04	62.37	68.20	-5.83	Peak
5700.00	61.71	6.32	68.03	105.20	-37.17	Peak
5720.00	75.50	6.33	81.83	110.80	-28.97	Peak
5725.00	85.53	6.34	91.87	122.20	-30.33	Peak
5745.00	111.41	6.37	117.78	150.00	-32.22	Peak

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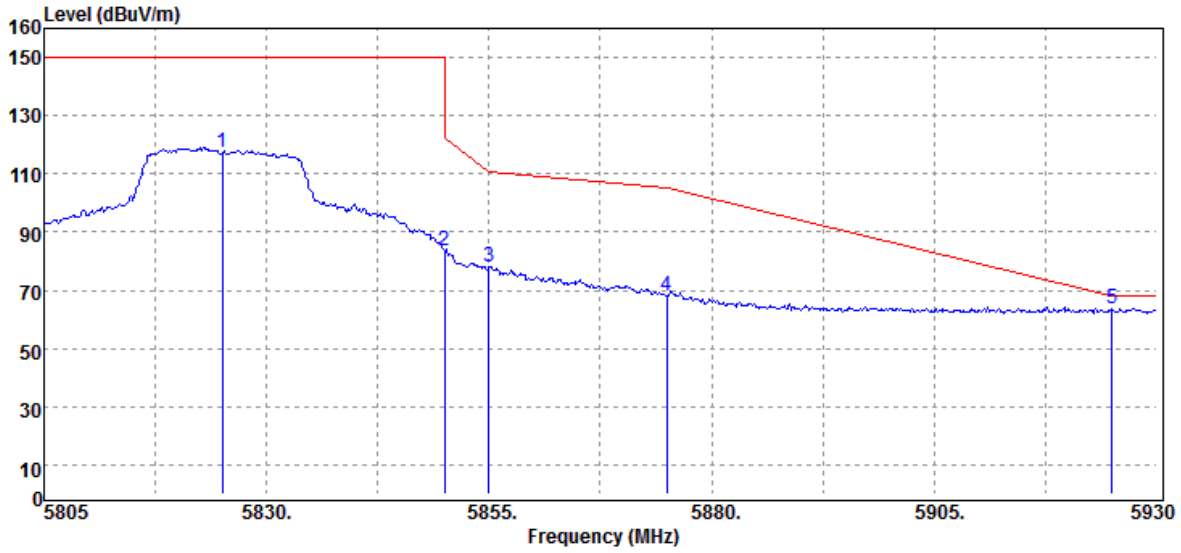
Test Mode	IEEE 802.11n 20 MHz / 5825 MHz	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5825.00	110.86	6.32	117.18	150.00	-32.82	Peak
5850.00	77.07	6.39	83.46	122.20	-38.74	Peak
5855.00	71.82	6.38	78.20	110.80	-32.60	Peak
5875.00	61.88	6.37	68.25	105.20	-36.95	Peak
5925.00	57.12	6.42	63.54	68.20	-4.66	Peak

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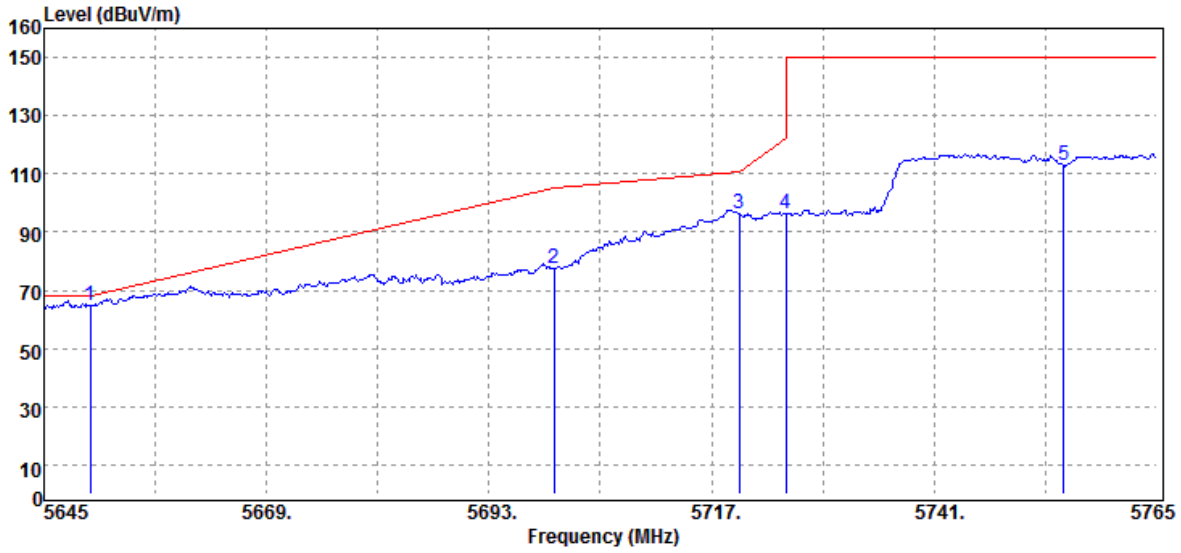
Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	23(℃)/ 54%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	58.68	6.04	64.72	68.20	-3.48	Peak
5700.00	71.23	6.32	77.55	105.20	-27.65	Peak
5720.00	89.84	6.33	96.17	110.80	-14.63	Peak
5725.00	90.20	6.34	96.54	122.20	-25.66	Peak
5755.00	106.59	6.37	112.96	150.00	-37.04	Peak

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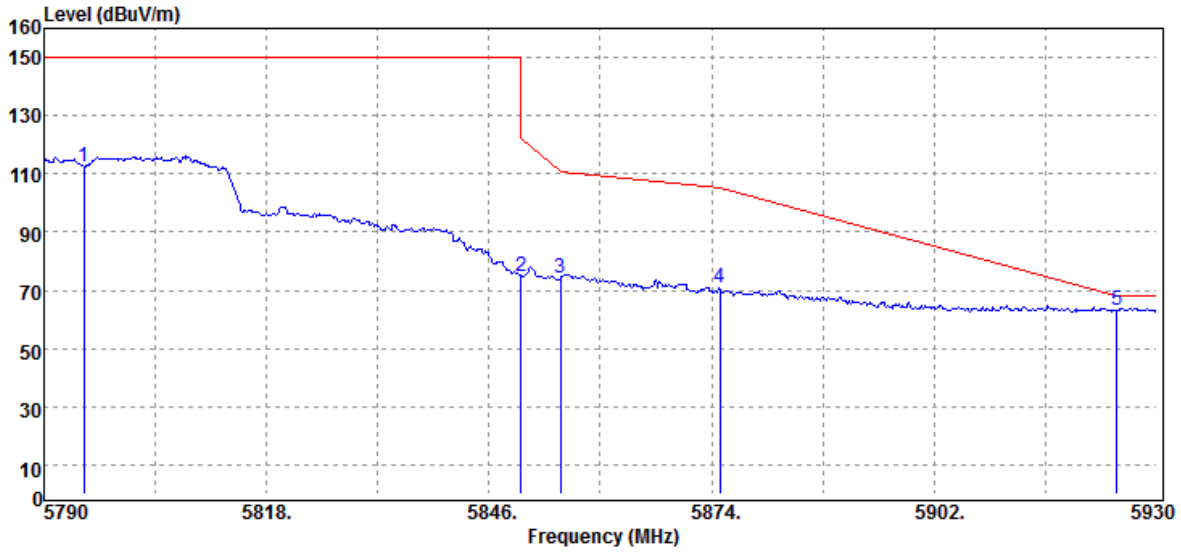
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5795.00	106.18	6.28	112.46	150.00	-37.54	Peak
5850.00	68.56	6.39	74.95	122.20	-47.25	Peak
5855.00	67.64	6.38	74.02	110.80	-36.78	Peak
5875.00	64.71	6.37	71.08	105.20	-34.12	Peak
5925.00	56.71	6.42	63.13	68.20	-5.07	Peak

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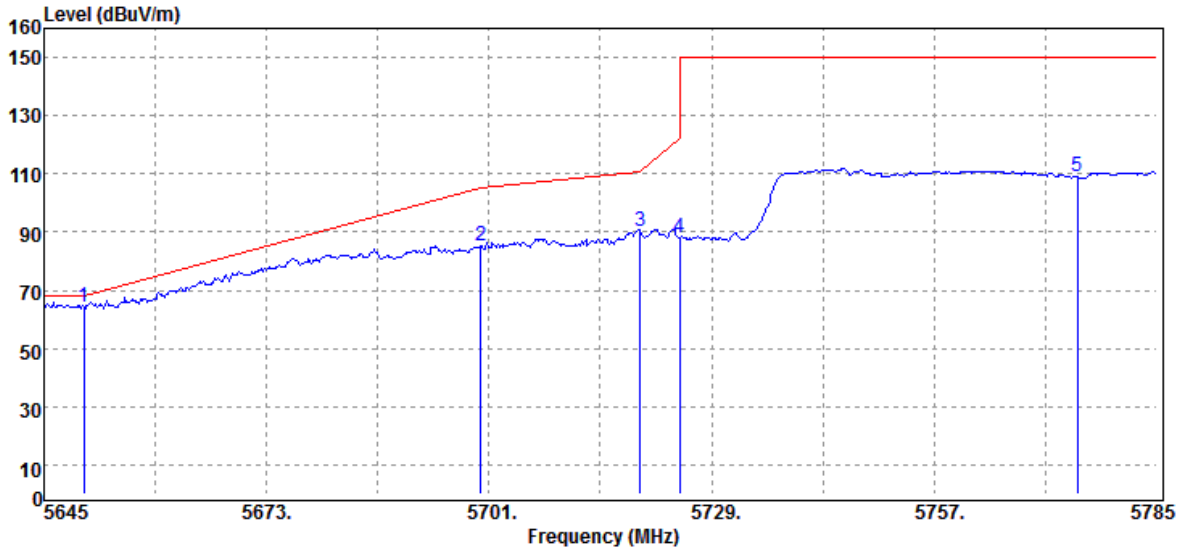
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	23(℃)/ 53%RH
Test Item	Band Edge	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	58.16	6.04	64.20	68.20	-4.00	Peak
5700.00	78.71	6.32	85.03	105.20	-20.17	Peak
5720.00	84.01	6.33	90.34	110.80	-20.46	Peak
5725.00	81.67	6.34	88.01	122.20	-34.19	Peak
5775.00	102.58	6.33	108.91	150.00	-41.09	Peak

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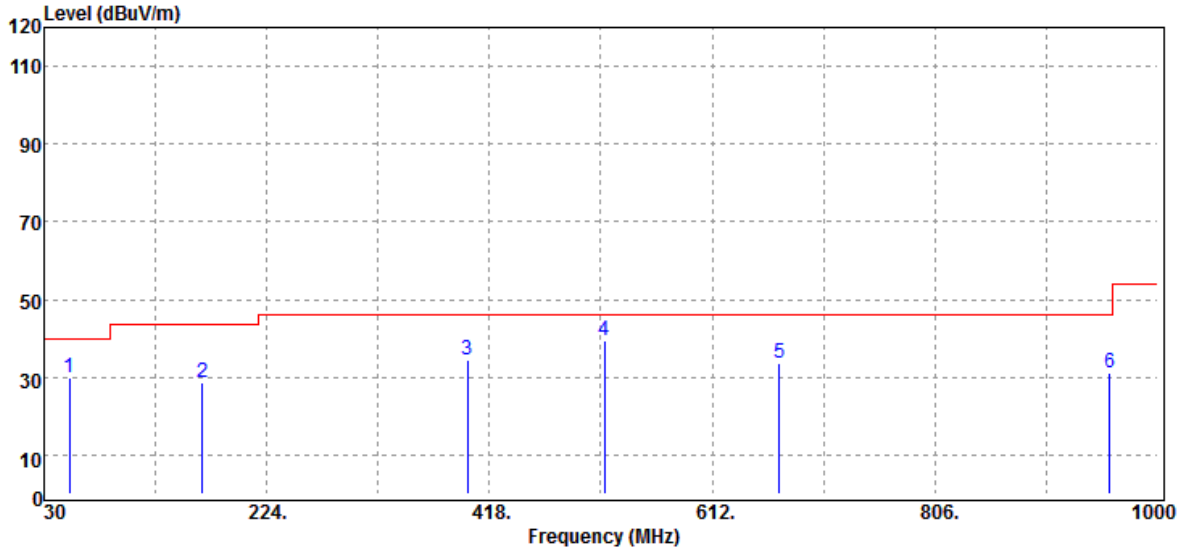
Below 1G Test Data

Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	30MHz-1GHz	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
52.31	45.81	-15.77	30.04	40.00	-9.96	Peak
167.74	39.28	-10.56	28.72	43.50	-14.78	Peak
398.60	40.05	-5.65	34.40	46.00	-11.60	Peak
517.91	42.00	-2.68	39.32	46.00	-6.68	Peak
670.20	33.46	0.21	33.67	46.00	-12.33	Peak
958.29	26.81	4.42	31.23	46.00	-14.77	Peak

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

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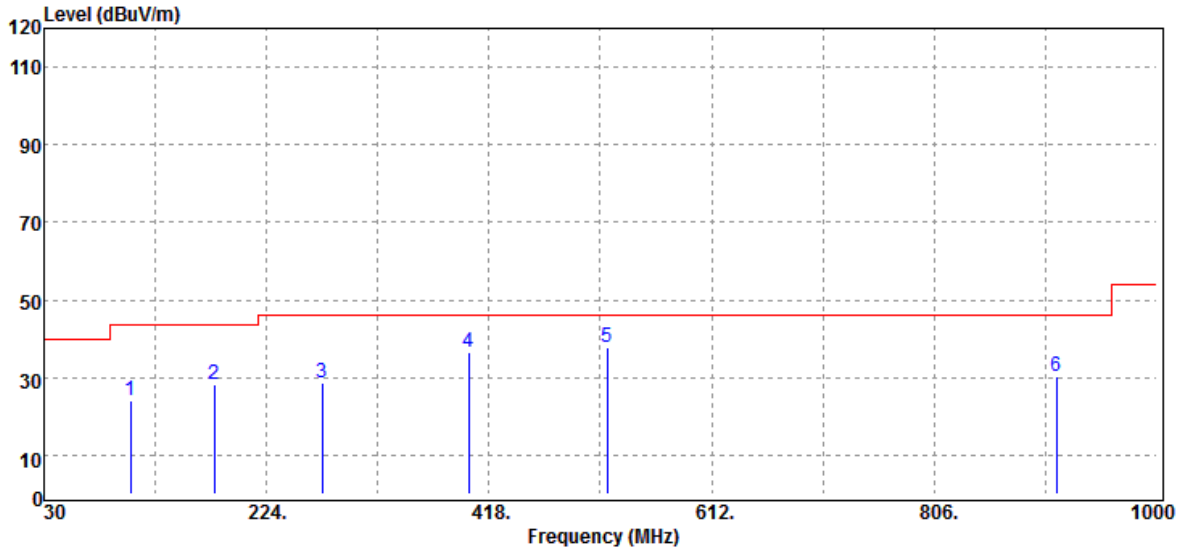
Test Mode	IEEE 802.11ac VHT80 / 5775 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	30MHz-1GHz	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Quasi-peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
105.66	35.22	-11.02	24.20	43.50	-19.30	Peak
178.41	39.50	-11.17	28.33	43.50	-15.17	Peak
272.50	37.19	-8.49	28.70	46.00	-17.30	Peak
400.54	42.00	-5.64	36.36	46.00	-9.64	Peak
520.82	40.18	-2.50	37.68	46.00	-8.32	Peak
912.70	26.58	3.89	30.47	46.00	-15.53	Peak

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

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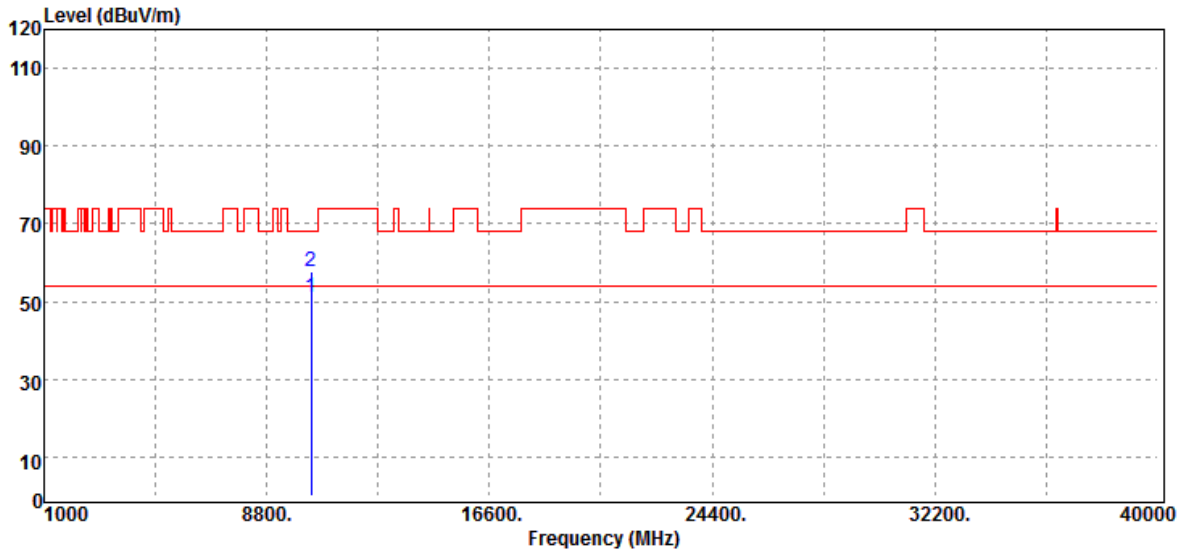
Above 1G Test Data for UNII-1

Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	36.92	14.12	51.04	54.00	-2.96	Average
10360.00	43.62	14.12	57.74	68.20	-10.46	Peak
N/A						

Remark:

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

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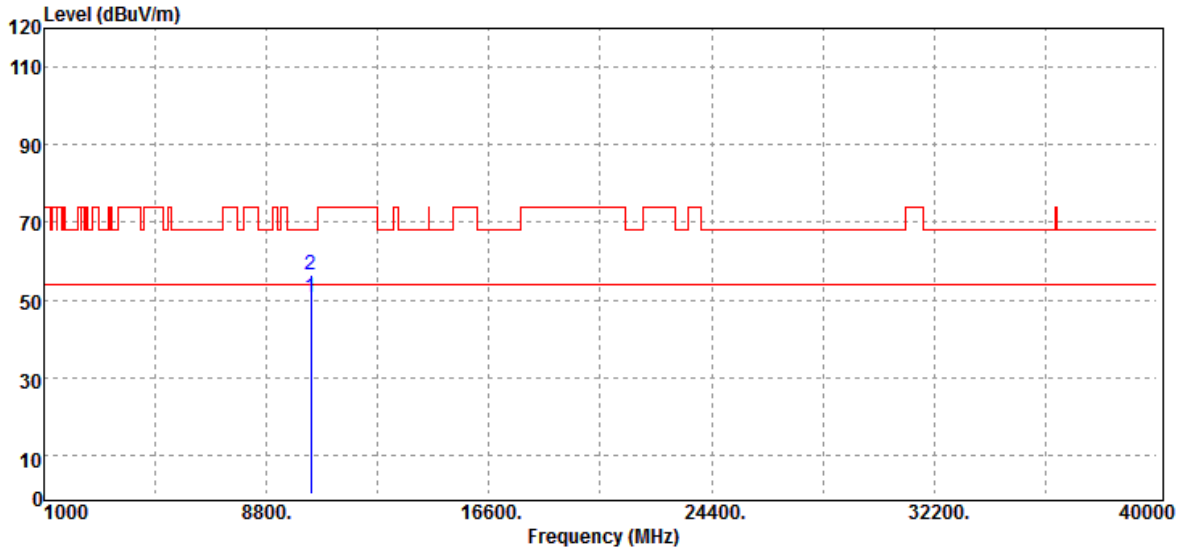
Test Mode	IEEE 802.11a / 5180MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	36.33	14.12	50.45	54.00	-3.55	Average
10360.00	42.51	14.12	56.63	68.20	-11.57	Peak
N/A						

Remark:

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

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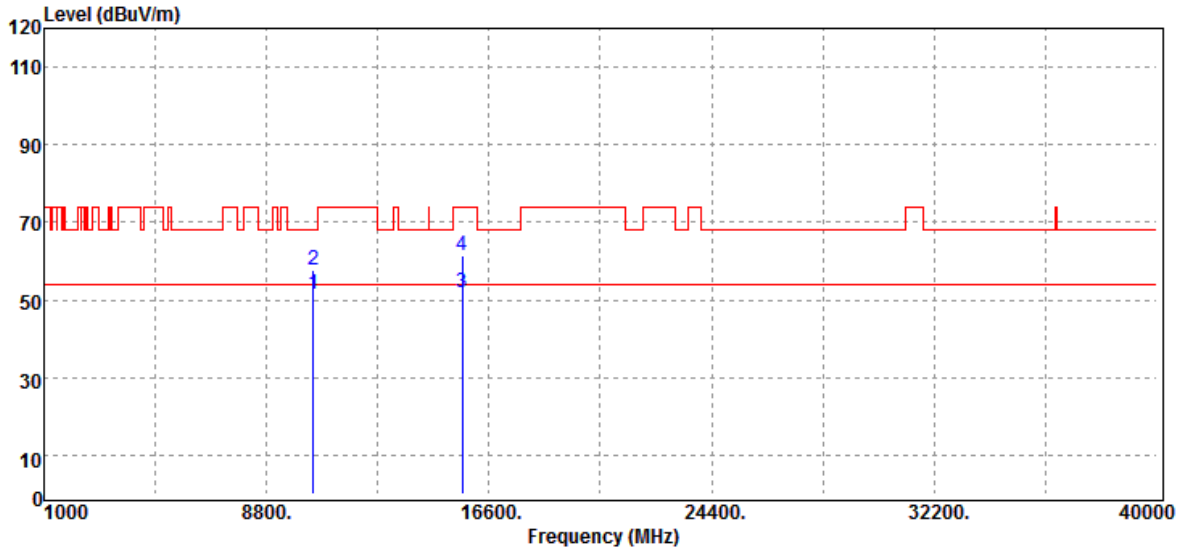
Test Mode	IEEE 802.11a / 5220 MHZ	Temp/Hum	22(℃)/ 52%RH
Test Item	Horizontal	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	36.32	15.21	51.53	54.00	-2.47	Average
10440.00	42.45	15.21	57.66	68.20	-10.54	Peak
15660.00	33.62	18.47	52.09	54.00	-1.91	Average
15660.00	43.17	18.47	61.64	74.00	-12.36	Peak
N/A						

Remark:

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

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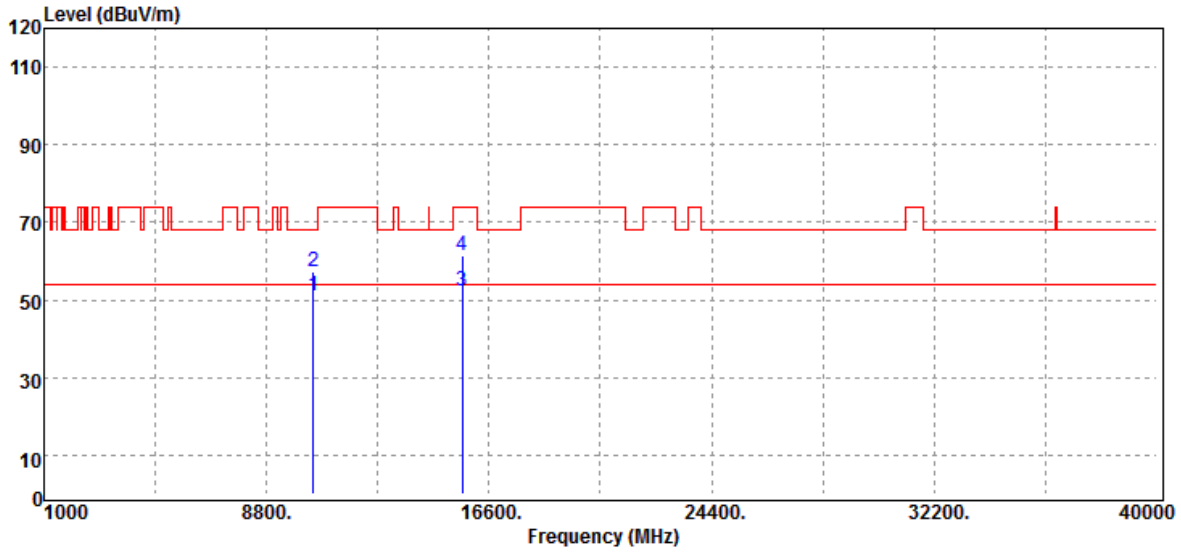
Test Mode	IEEE 802.11a / 5220 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	35.88	15.21	51.09	54.00	-2.91	Average
10440.00	41.91	15.21	57.12	68.20	-11.08	Peak
15660.00	33.74	18.47	52.21	54.00	-1.79	Average
15660.00	42.95	18.47	61.42	74.00	-12.58	Peak
N/A						

Remark:

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

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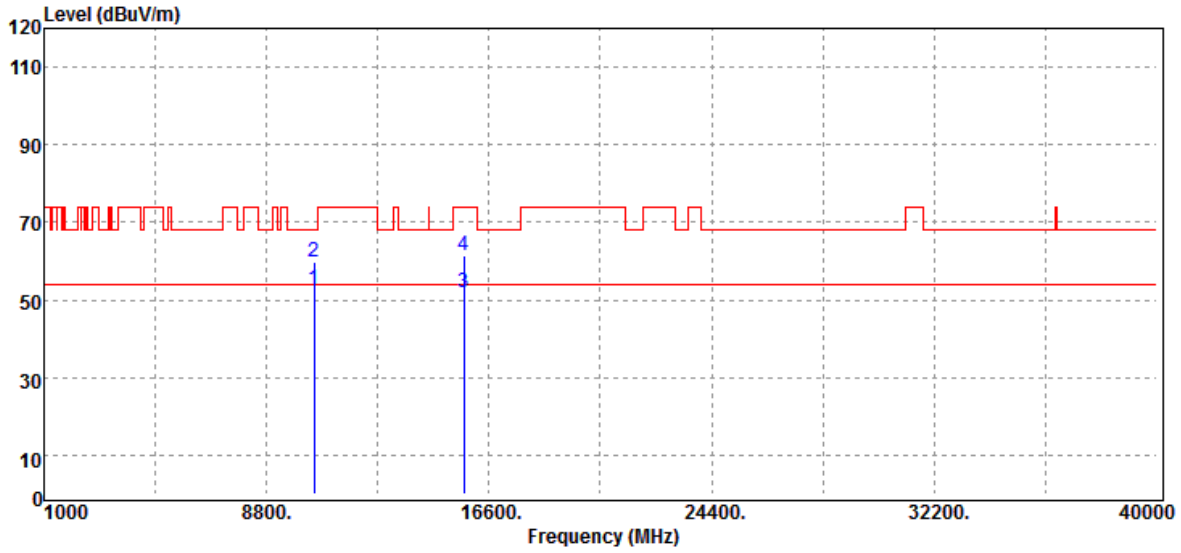
Test Mode	IEEE 802.11a / 5240MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	36.62	16.09	52.71	54.00	-1.29	Average
10480.00	43.51	16.09	59.60	68.20	-8.60	Peak
15720.00	33.12	18.76	51.88	54.00	-2.12	Average
15720.00	42.62	18.76	61.38	74.00	-12.62	Peak
N/A						

Remark:

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

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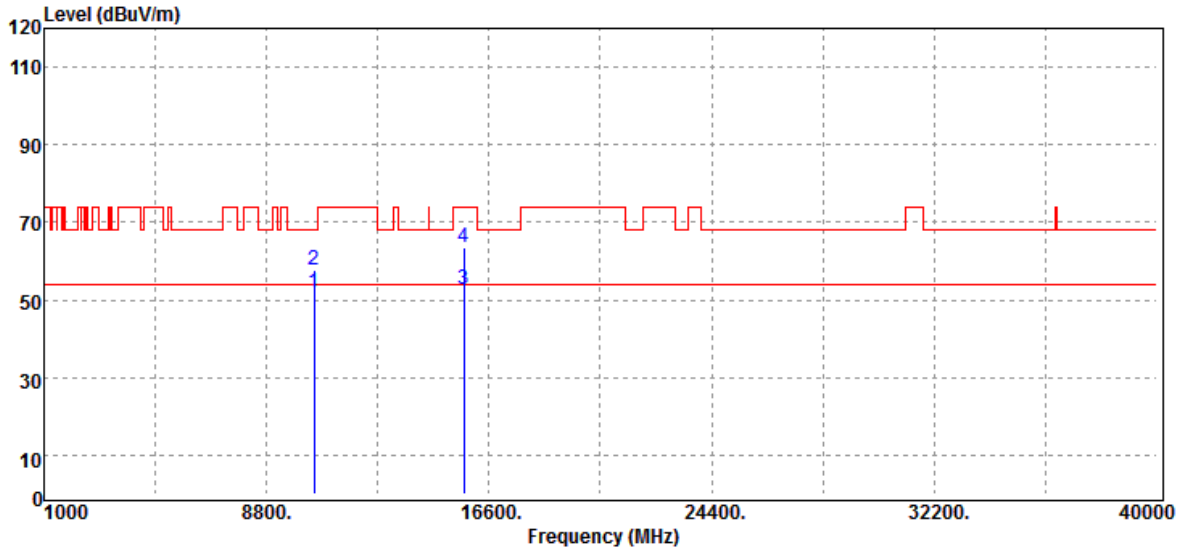
Test Mode	IEEE 802.11a / 5240MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	35.99	16.09	52.08	54.00	-1.92	Average
10480.00	41.73	16.09	57.82	68.20	-10.38	Peak
15720.00	33.87	18.76	52.63	54.00	-1.37	Average
15720.00	44.95	18.76	63.71	74.00	-10.29	Peak
N/A						

Remark:

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

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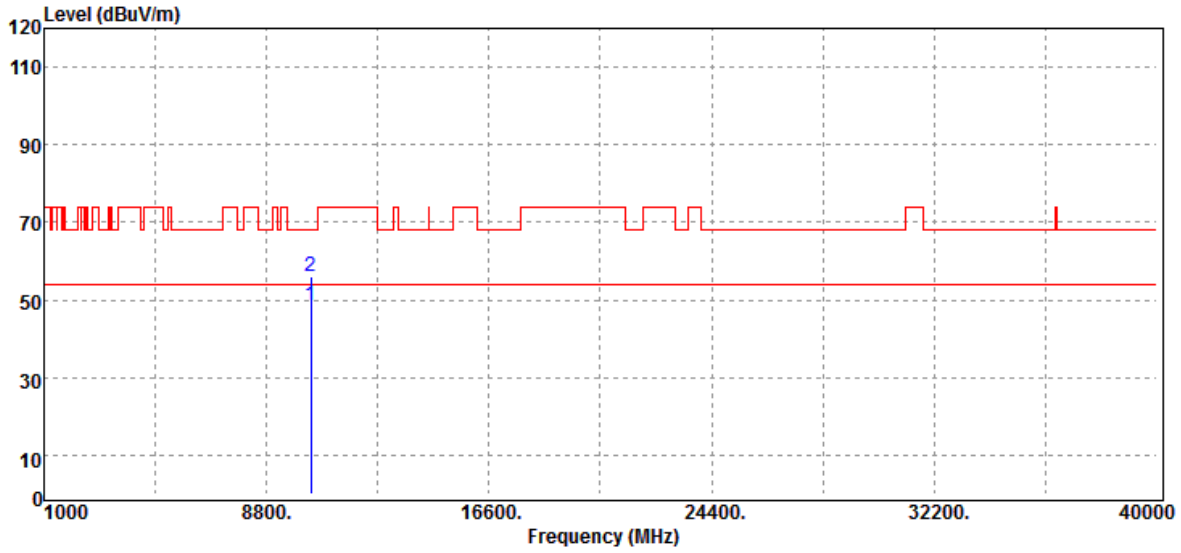
Test Mode	IEEE 802.11n 20 MHz / 5180MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	34.62	14.12	48.74	54.00	-5.26	Average
10360.00	41.75	14.12	55.87	68.20	-12.33	Peak
N/A						

Remark:

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

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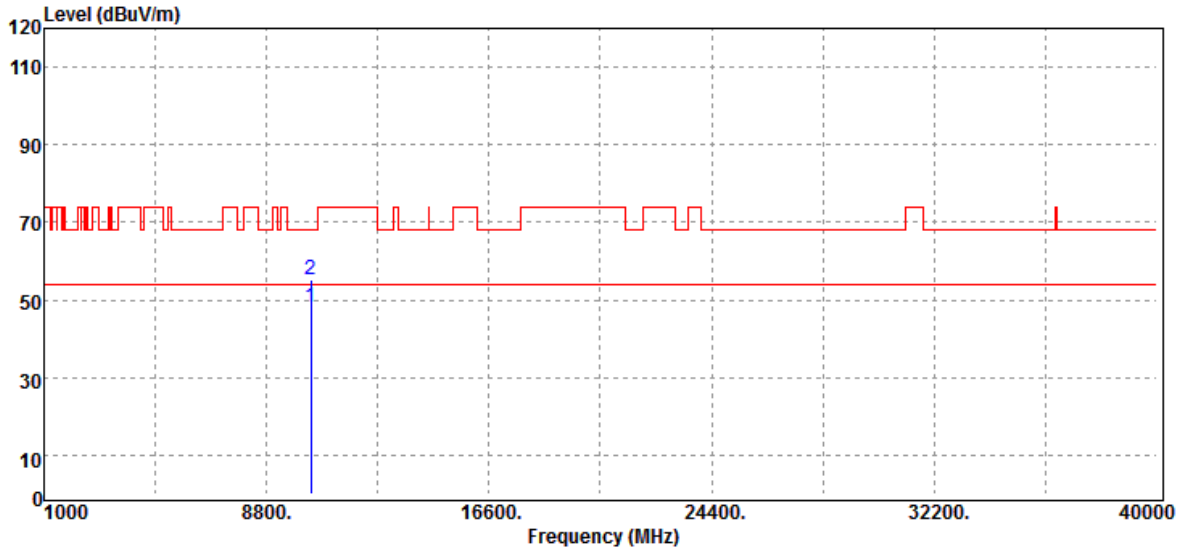
Test Mode	IEEE 802.11n 20 MHz/ 5180MHZ	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	33.98	14.12	48.10	54.00	-5.90	Average
10360.00	41.18	14.12	55.30	68.20	-12.90	Peak
N/A						

Remark:

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

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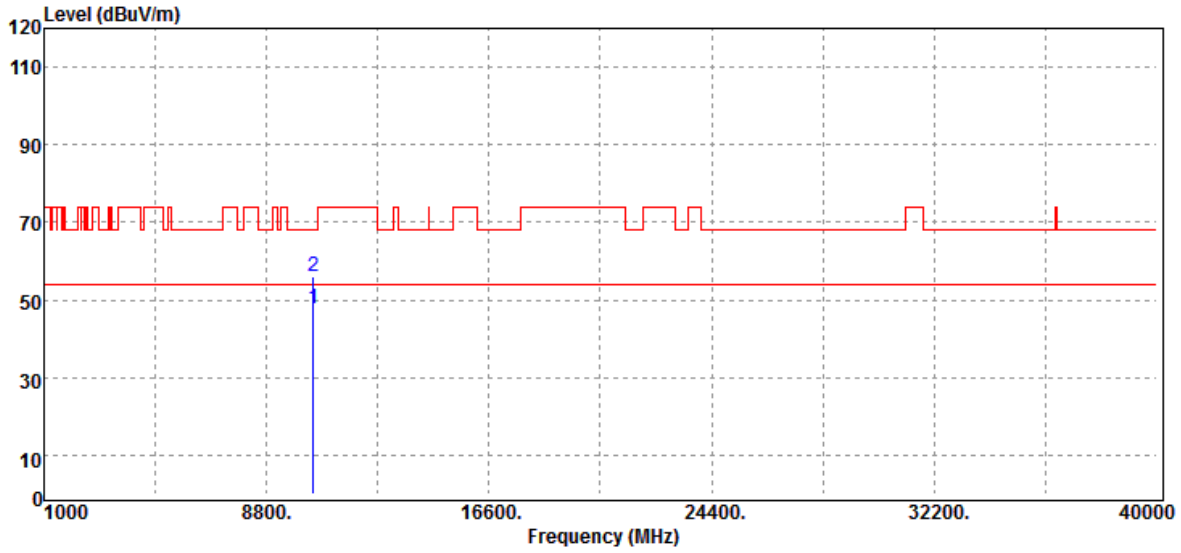
Test Mode	IEEE 802.11n 20 MHz / 5220MHZ	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	32.62	15.21	47.83	54.00	-6.17	Average
10440.00	40.82	15.21	56.03	68.20	-12.17	Peak
N/A						

Remark:

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

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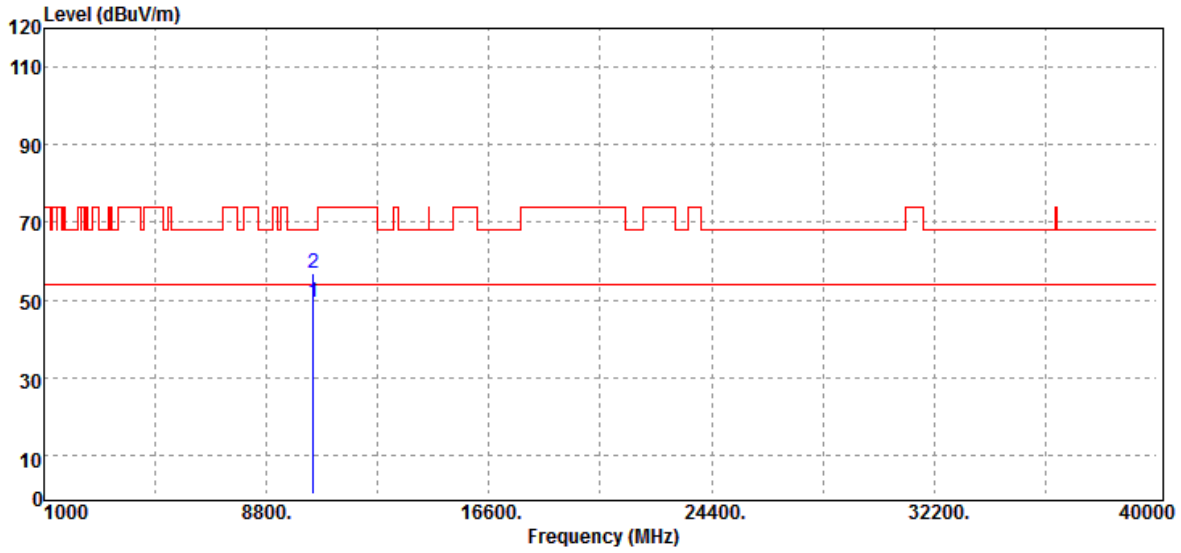
Test Mode	IEEE 802.11n 20 MHz / 5220MHZ	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	34.26	15.21	49.47	54.00	-4.53	Average
10440.00	41.61	15.21	56.82	68.20	-11.38	Peak
N/A						

Remark:

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

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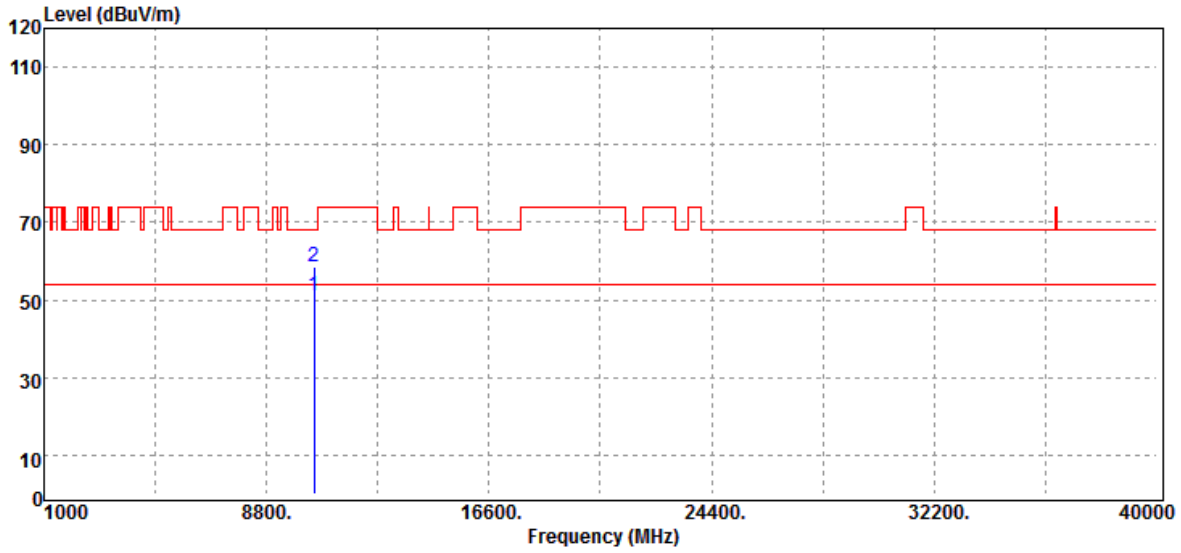
Test Mode	IEEE 802.11n 20 MHz / 5240MHZ	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	34.85	16.09	50.94	54.00	-3.06	Average
10480.00	42.55	16.09	58.64	68.20	-9.56	Peak
N/A						

Remark:

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

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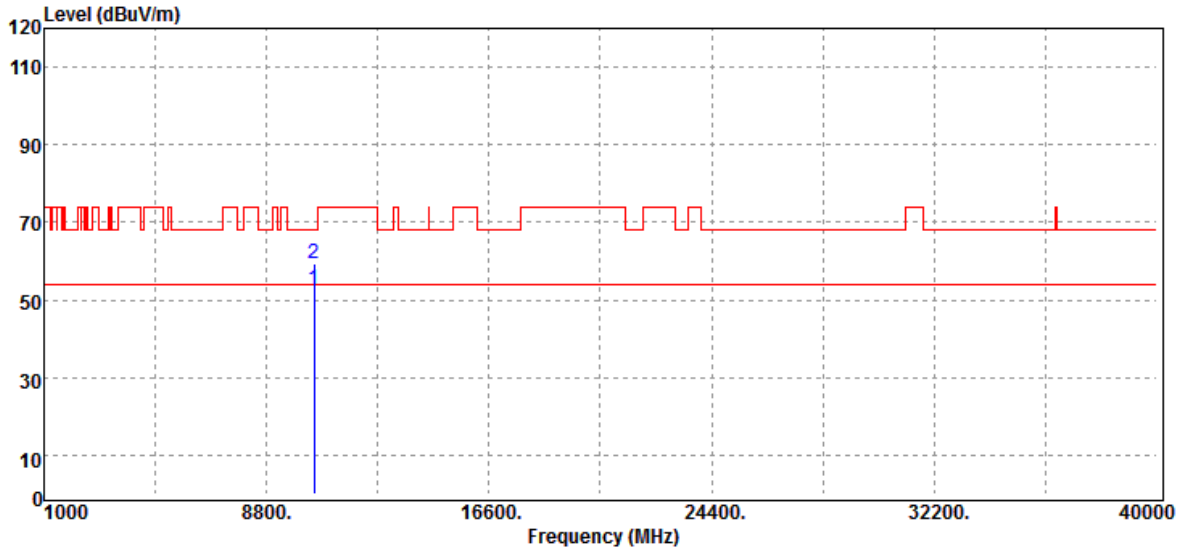
Test Mode	IEEE 802.11n 20 MHz / 5240MHZ	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	36.74	16.09	52.83	54.00	-1.17	Average
10480.00	43.22	16.09	59.31	68.20	-8.89	Peak
N/A						

Remark:

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

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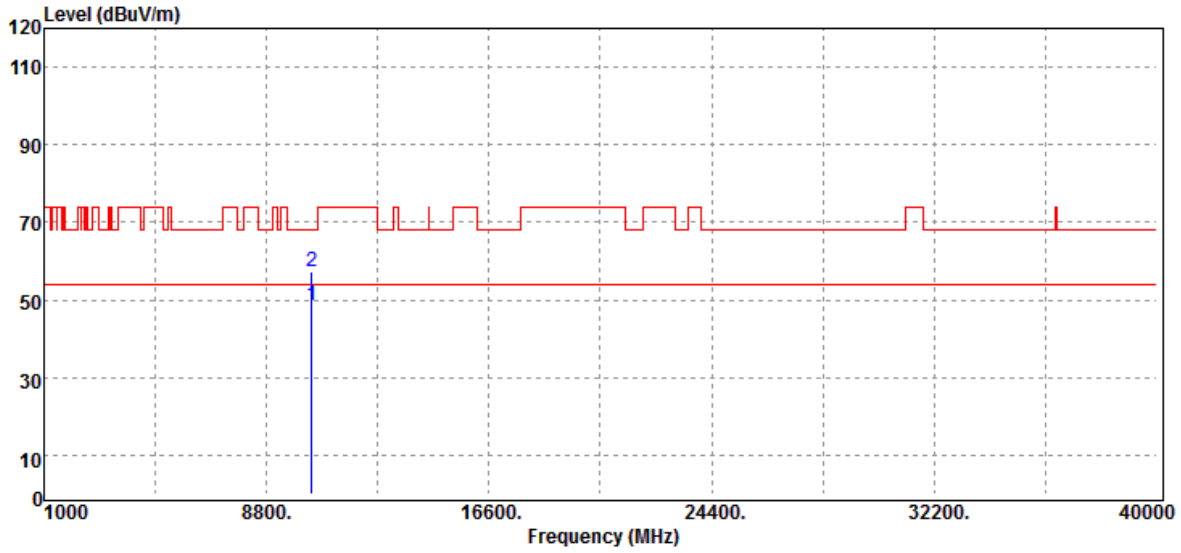
Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10380.00	34.52	14.23	48.75	54.00	-5.25	Average
10380.00	42.88	14.23	57.11	68.20	-11.09	Peak
N/A						

Remark:

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

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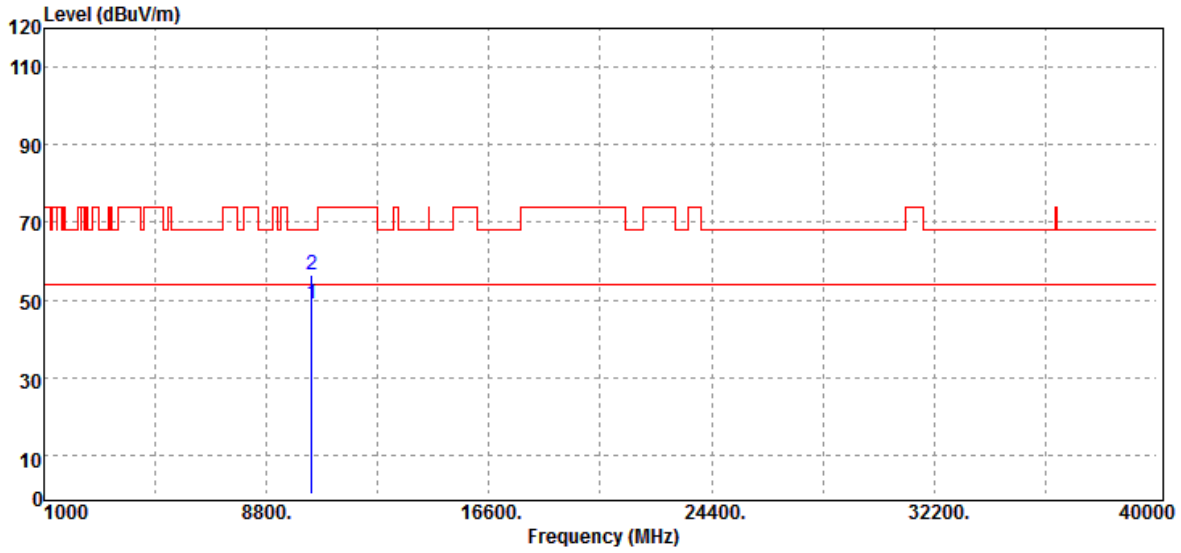
Test Mode	IEEE 802.11n 40 MHz / 5190MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10380.00	34.95	14.23	49.18	54.00	-4.82	Average
10380.00	42.08	14.23	56.31	68.20	-11.89	Peak
N/A						

Remark:

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

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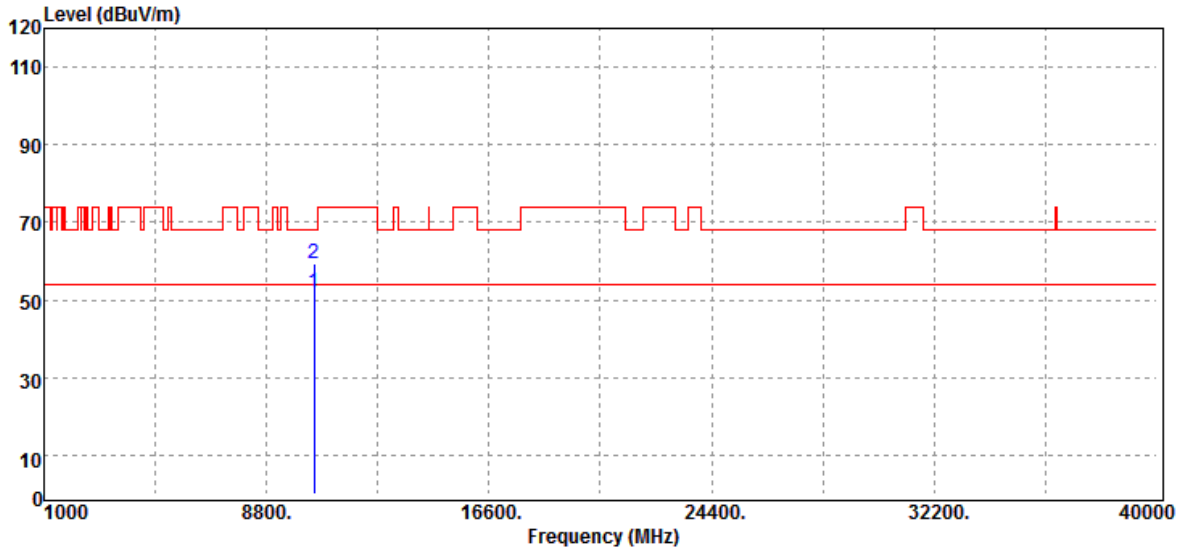
Test Mode	IEEE 802.11n 40 MHz / 5230MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10460.00	36.26	15.65	51.91	54.00	-2.09	Average
10460.00	43.55	15.65	59.20	68.20	-9.00	Peak
N/A						

Remark:

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

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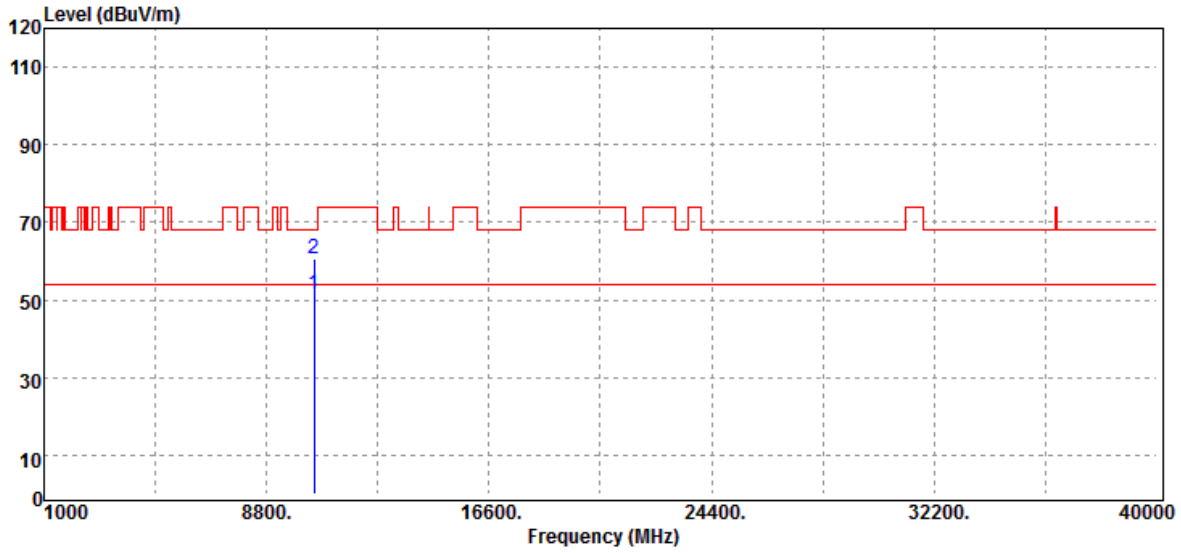
Test Mode	IEEE 802.11n 40 MHz / 5230MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10460.00	35.78	15.65	51.43	54.00	-2.57	Average
10460.00	44.95	15.65	60.60	68.20	-7.60	Peak
N/A						

Remark:

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

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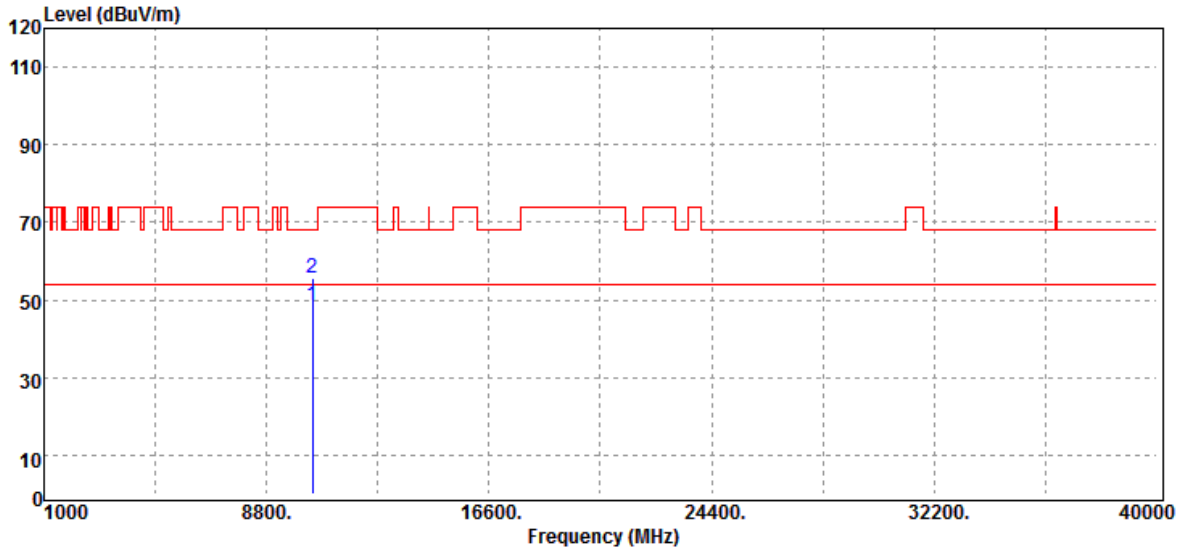
Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10420.00	33.98	14.78	48.76	54.00	-5.24	Average
10420.00	40.78	14.78	55.56	68.20	-12.64	Peak
N/A						

Remark:

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

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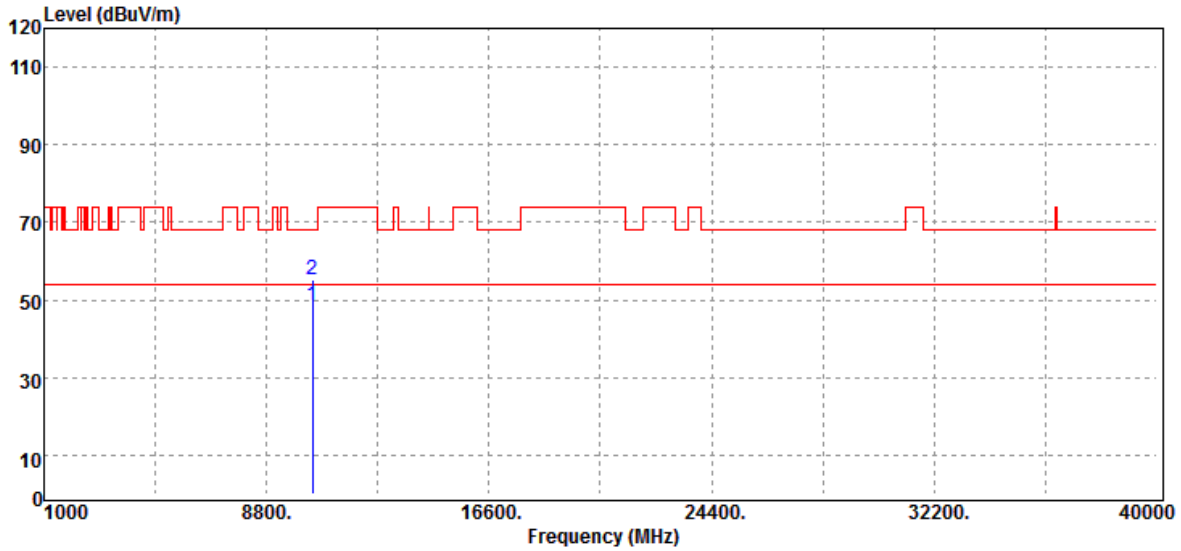
Test Mode	IEEE 802.11ac VHT80 / 5210MHZ	Temp/Hum	23(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10420.00	33.78	14.78	48.56	54.00	-5.44	Average
10420.00	40.48	14.78	55.26	68.20	-12.94	Peak
N/A						

Remark:

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

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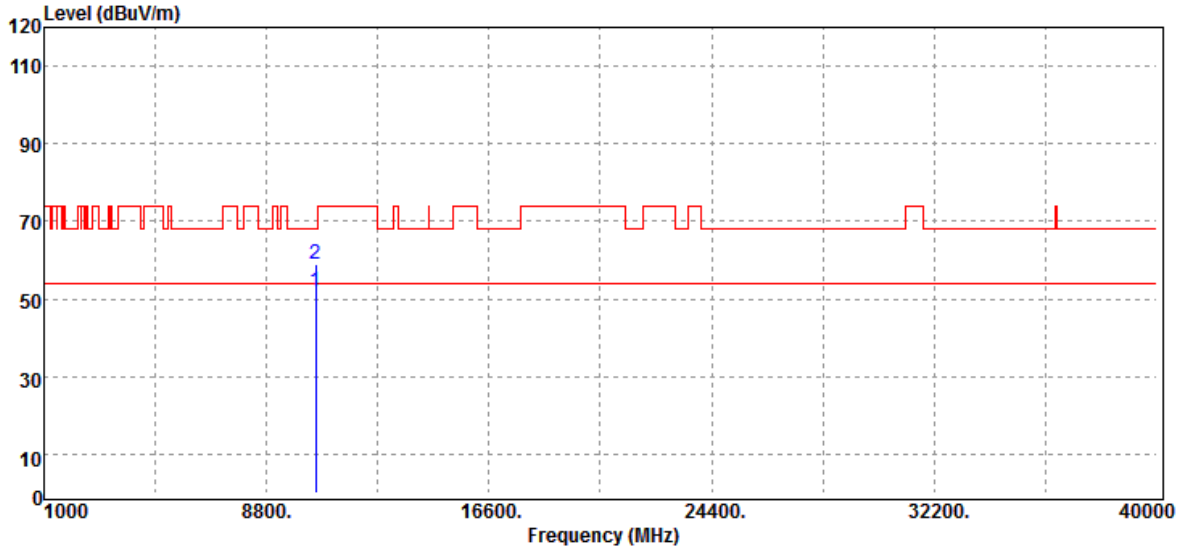
Above 1G Test Data for UNII-2a

Test Mode	IEEE 802.11a / 5260 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10520.00	36.52	15.33	51.85	54.00	-2.15	Average
10520.00	43.51	15.33	58.84	68.20	-9.36	Peak
N/A						

Remark:

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

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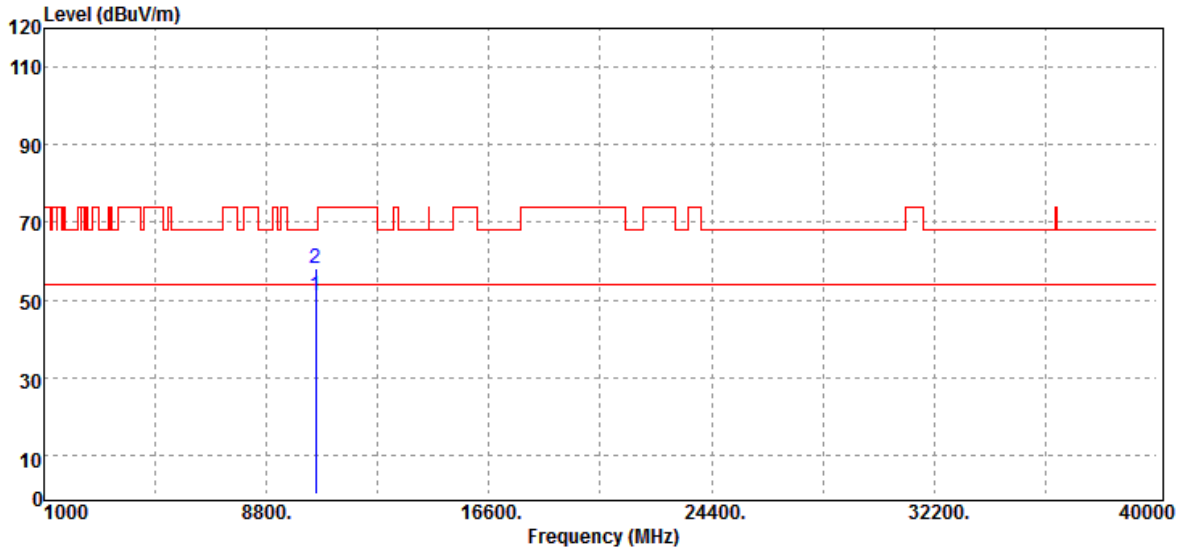
Test Mode	IEEE 802.11a / 5260 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10520.00	35.85	15.33	51.18	54.00	-2.82	Average
10520.00	42.95	15.33	58.28	68.20	-9.92	Peak
N/A						

Remark:

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

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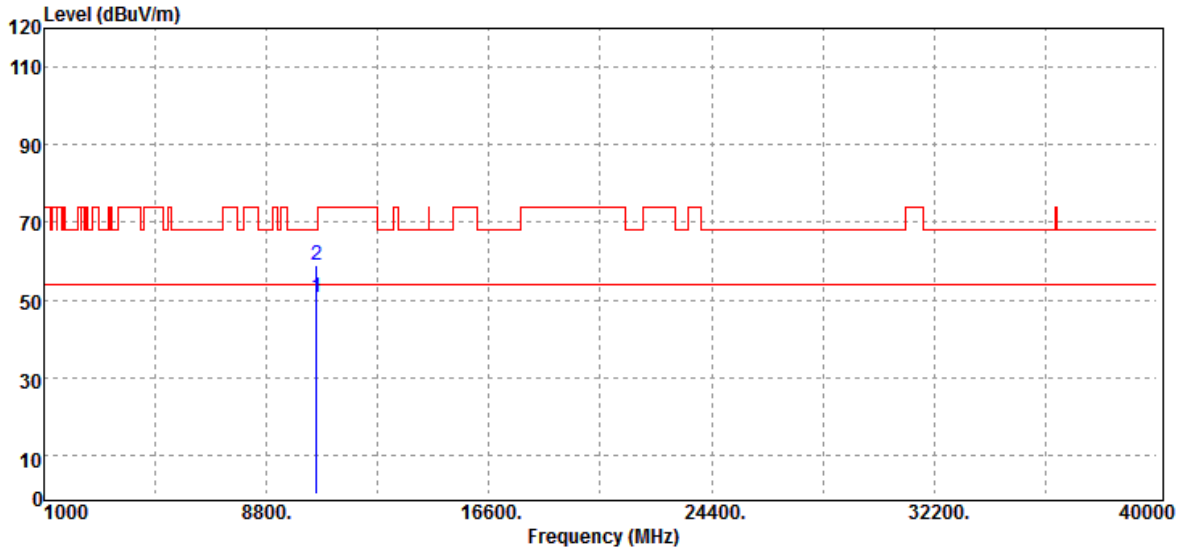
Test Mode	IEEE 802.11a / 5280 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10560.00	36.25	14.58	50.83	54.00	-3.17	Average
10560.00	44.51	14.58	59.09	68.20	-9.11	Peak
N/A						

Remark:

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

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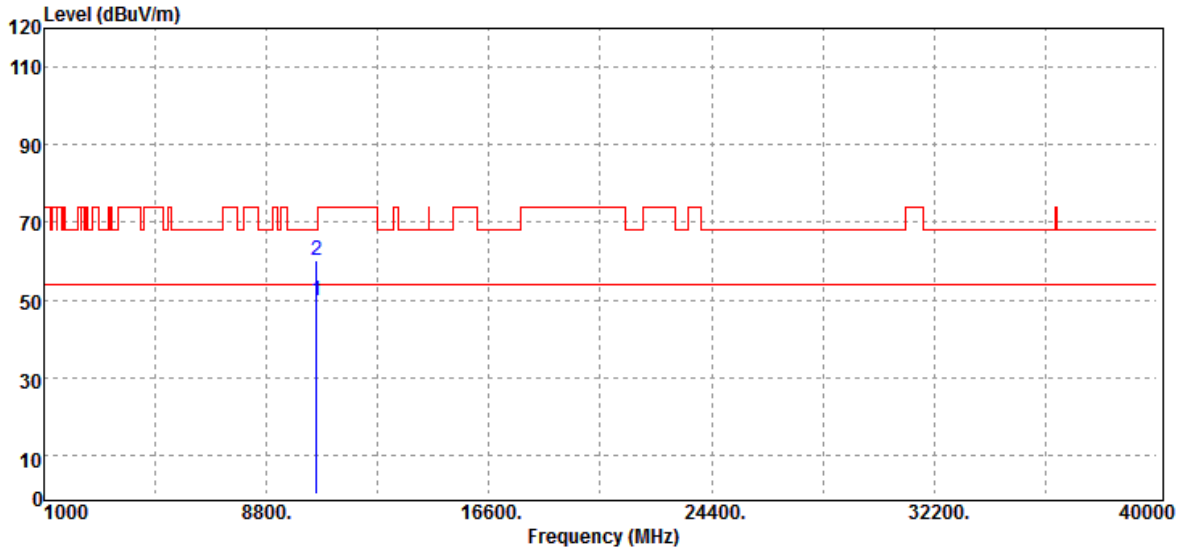
Test Mode	IEEE 802.11a / 5280 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10560.00	35.26	14.58	49.84	54.00	-4.16	Average
10560.00	45.62	14.58	60.20	68.20	-8.00	Peak
N/A						

Remark:

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

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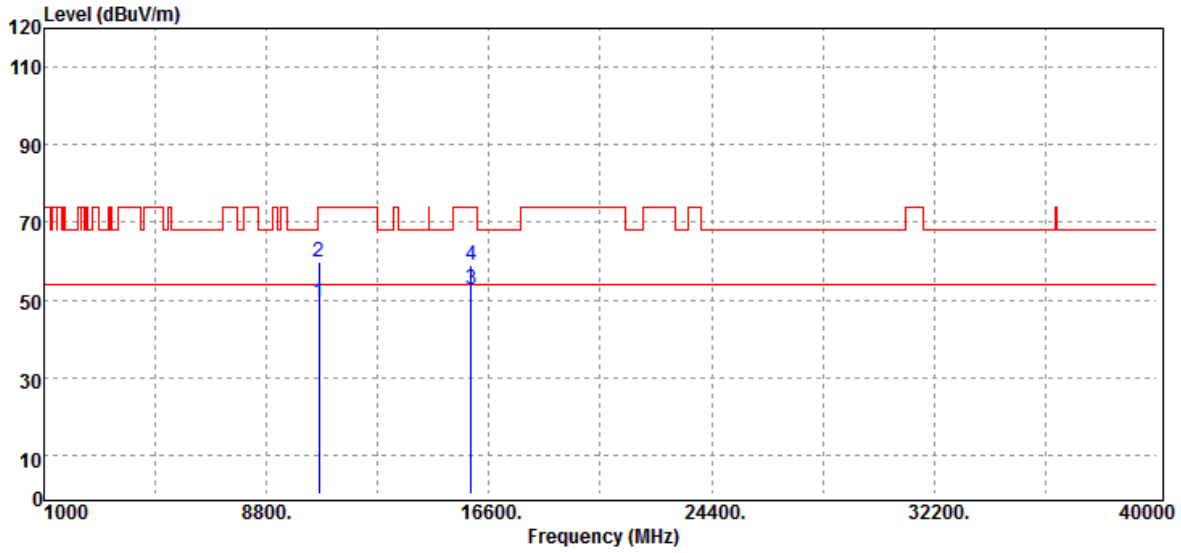
Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10640.00	34.52	15.05	49.57	54.00	-4.43	Average
10640.00	44.62	15.05	59.67	74.00	-14.33	Peak
15960.00	33.26	19.52	52.78	54.00	-1.22	Average
15960.00	39.55	19.52	59.07	74.00	-14.93	Peak
N/A						

Remark:

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

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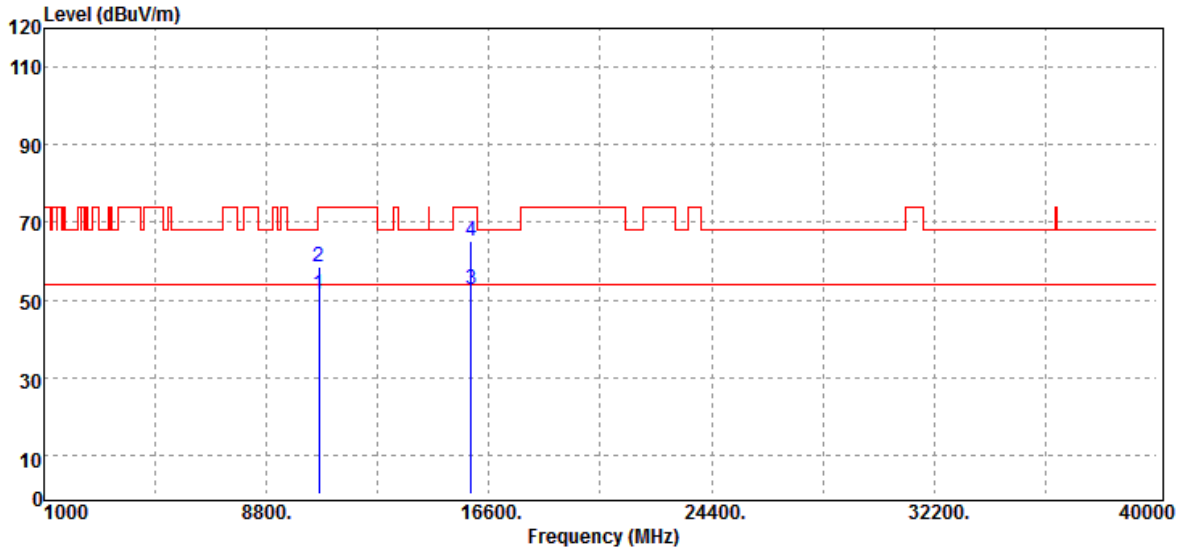
Test Mode	IEEE 802.11a / 5320 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10640.00	36.26	15.05	51.31	54.00	-2.69	Average
10640.00	43.52	15.05	58.57	74.00	-15.43	Peak
15960.00	33.35	19.52	52.87	54.00	-1.13	Average
15960.00	45.62	19.52	65.14	74.00	-8.86	Peak
N/A						

Remark:

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

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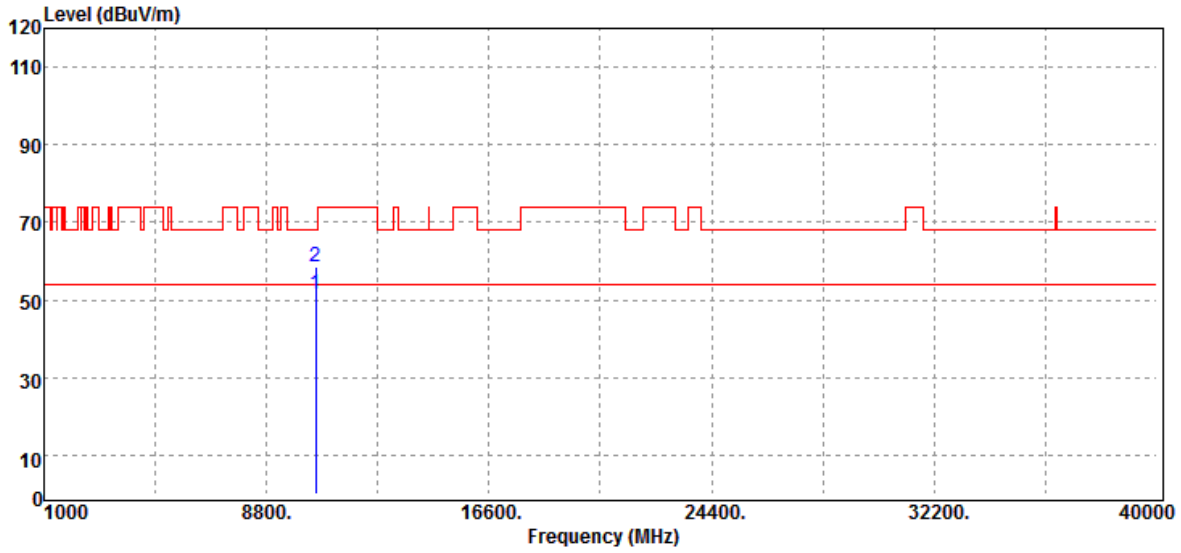
Test Mode	IEEE 802.11n 20 MHz / 5260 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10520.00	36.26	15.33	51.59	54.00	-2.41	Average
10520.00	43.12	15.33	58.45	68.20	-9.75	Peak
N/A						

Remark:

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

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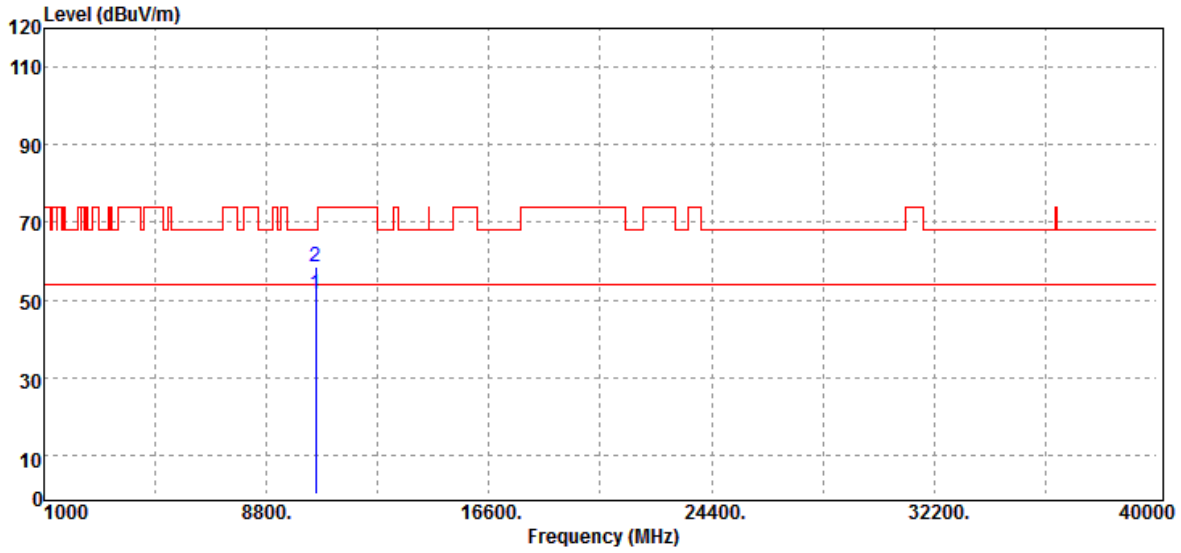
Test Mode	IEEE 802.11n 20 MHz / 5260 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10520.00	35.95	15.33	51.28	54.00	-2.72	Average
10520.00	43.12	15.33	58.45	68.20	-9.75	Peak
N/A						

Remark:

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

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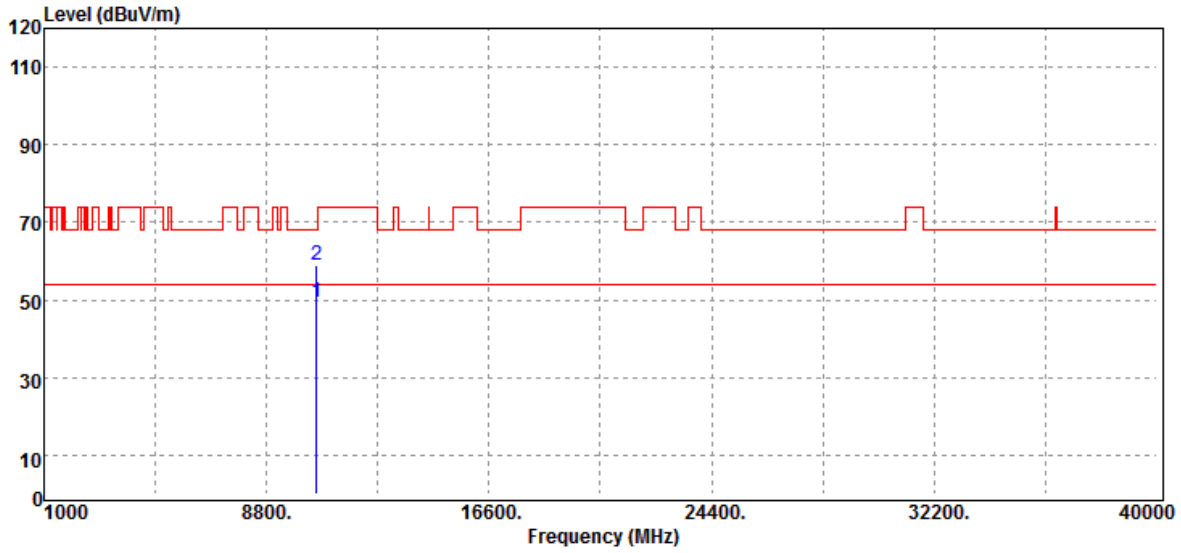
Test Mode	IEEE 802.11n 20 MHz / 5280 MHz	Temp/Hum	22(℃)/ 51%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10560.00	34.85	14.58	49.43	54.00	-4.57	Average
10560.00	44.51	14.58	59.09	68.20	-9.11	Peak
N/A						

Remark:

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

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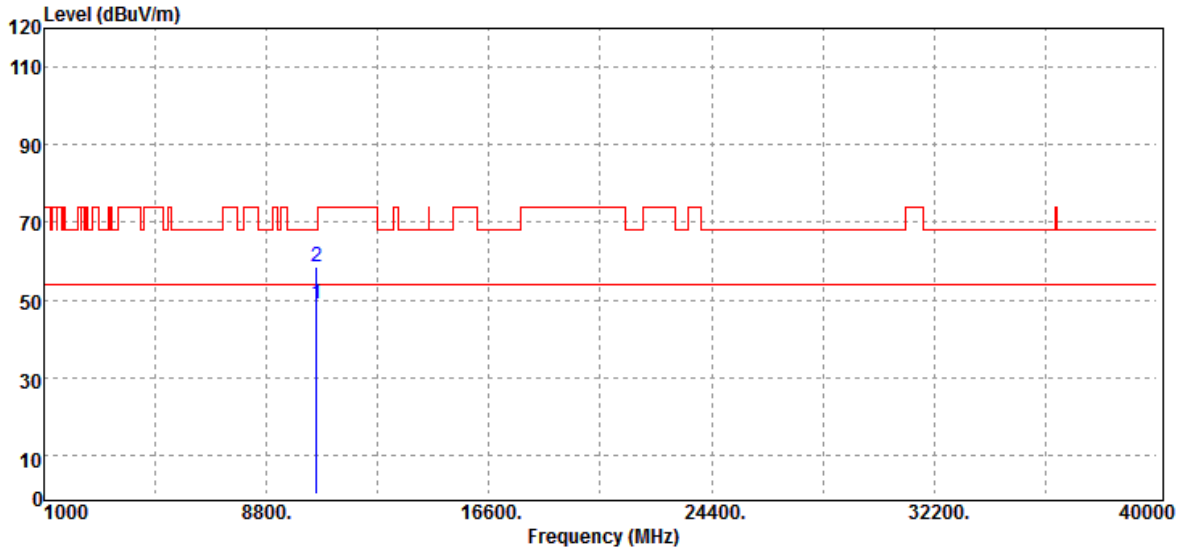
Test Mode	IEEE 802.11n 20 MHz / 5280 MHz	Temp/Hum	22(℃)/ 51%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10560.00	34.31	14.58	48.89	54.00	-5.11	Average
10560.00	43.97	14.58	58.55	68.20	-9.65	Peak
N/A						

Remark:

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

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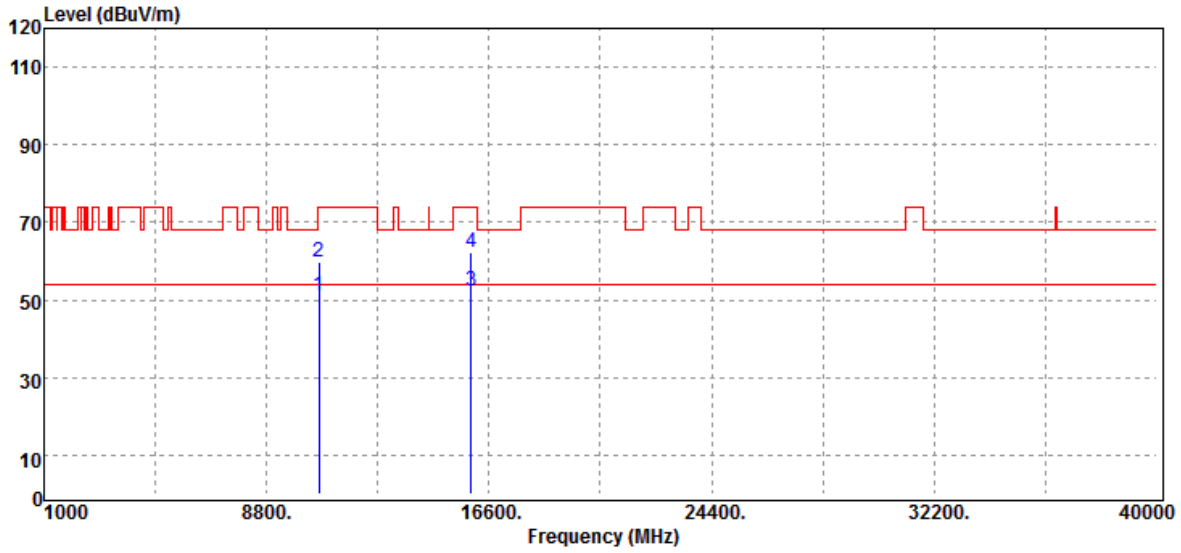
Test Mode	IEEE 802.11n 20 MHz / 5320 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10640.00	35.99	15.05	51.04	54.00	-2.96	Average
10640.00	44.85	15.05	59.90	74.00	-14.10	Peak
15960.00	32.95	19.52	52.47	54.00	-1.53	Average
15960.00	42.62	19.52	62.14	74.00	-11.86	Peak
N/A						

Remark:

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

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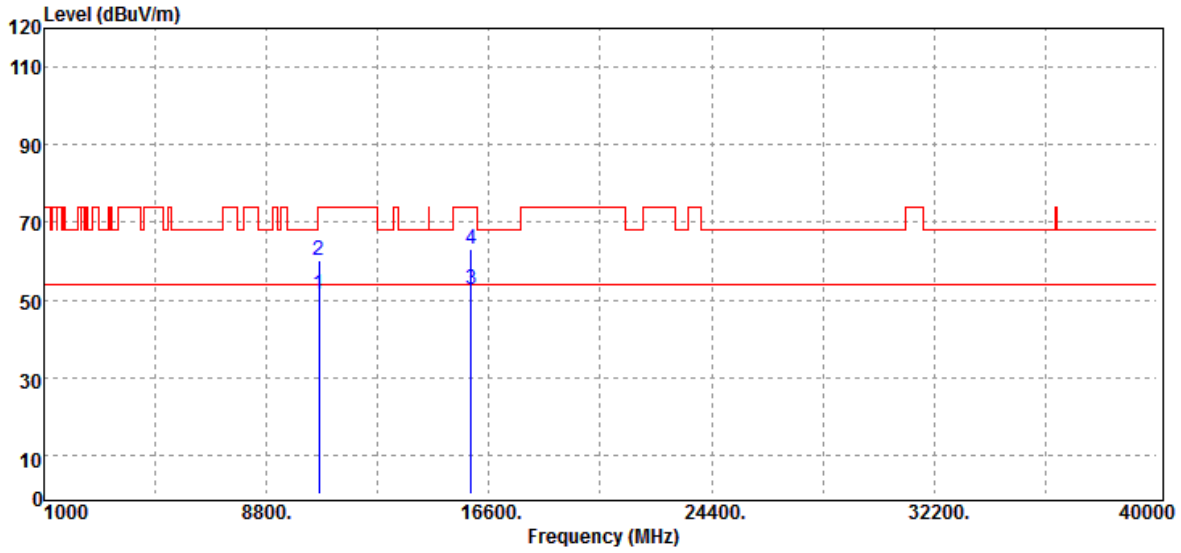
Test Mode	IEEE 802.11n 20 MHz / 5320 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10640.00	36.26	15.05	51.31	54.00	-2.69	Average
10640.00	45.26	15.05	60.31	74.00	-13.69	Peak
15960.00	33.32	19.52	52.84	54.00	-1.16	Average
15960.00	43.52	19.52	63.04	74.00	-10.96	Peak
N/A						

Remark:

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

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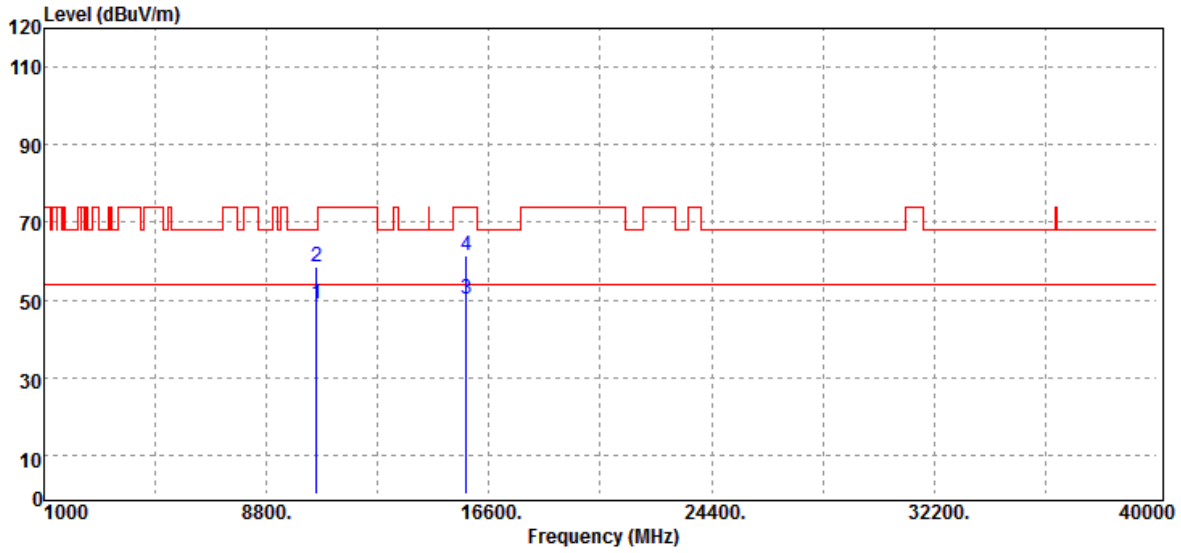
Test Mode	IEEE 802.11n 40 MHz / 5270 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10540.00	34.16	14.95	49.11	54.00	-4.89	Average
10540.00	43.53	14.95	58.48	68.20	-9.72	Peak
15810.00	31.04	19.20	50.24	54.00	-3.76	Average
15810.00	42.21	19.20	61.41	74.00	-12.59	Peak
N/A						

Remark:

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

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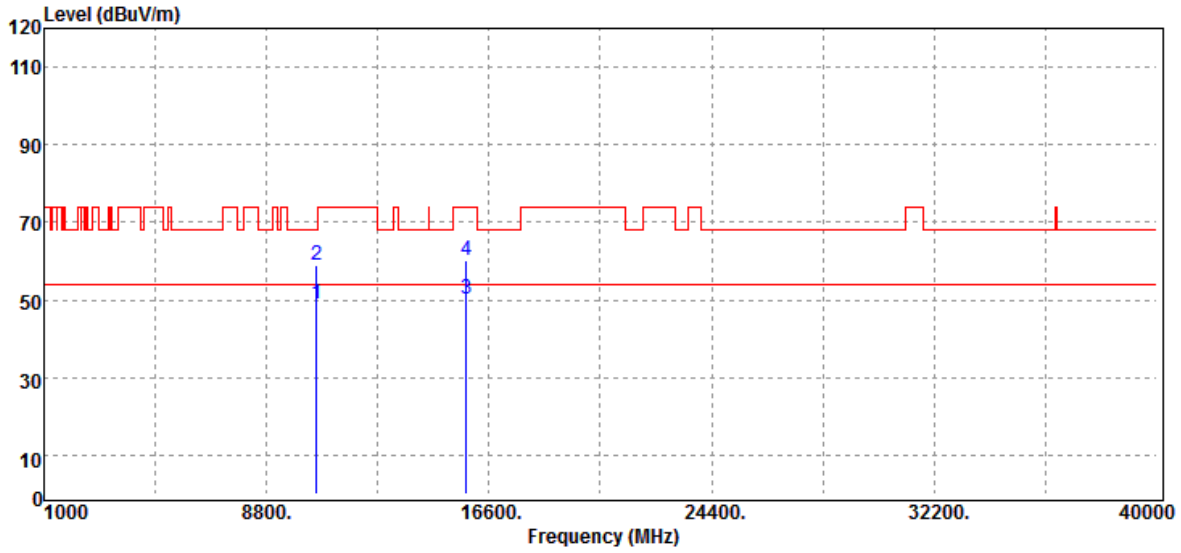
Test Mode	IEEE 802.11n 40 MHz / 5270 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10540.00	33.88	14.95	48.83	54.00	-5.17	Average
10540.00	44.12	14.95	59.07	68.20	-9.13	Peak
15810.00	30.94	19.20	50.14	54.00	-3.86	Average
15810.00	41.10	19.20	60.30	74.00	-13.70	Peak
N/A						

Remark:

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

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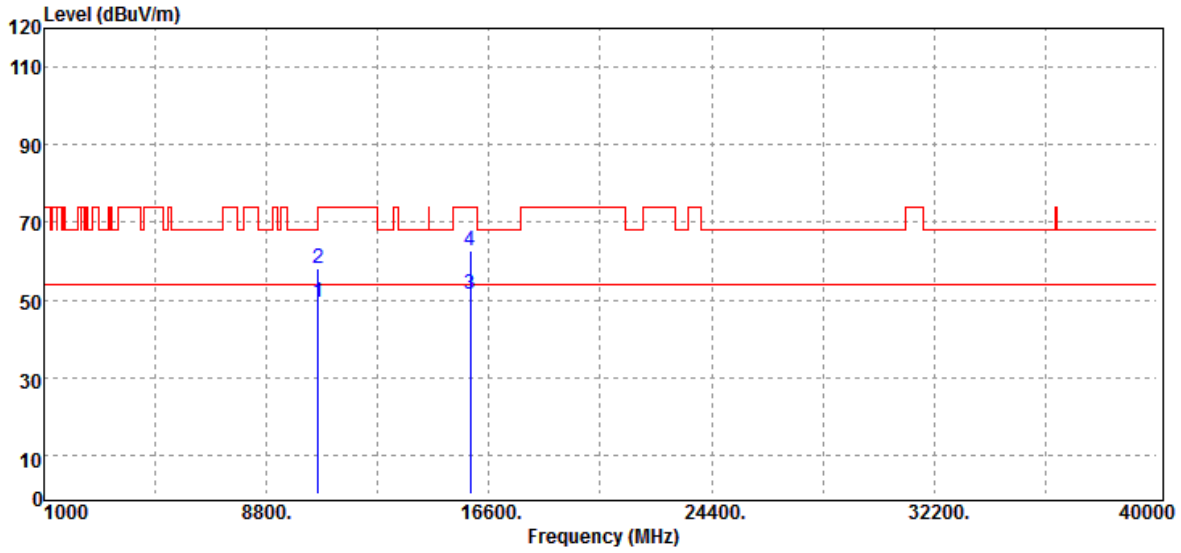
Test Mode	IEEE 802.11n 40 MHz / 5310 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10620.00	34.75	14.81	49.56	54.00	-4.44	Average
10620.00	43.15	14.81	57.96	74.00	-16.04	Peak
15930.00	32.19	19.43	51.62	54.00	-2.38	Average
15930.00	43.12	19.43	62.55	74.00	-11.45	Peak
N/A						

Remark:

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

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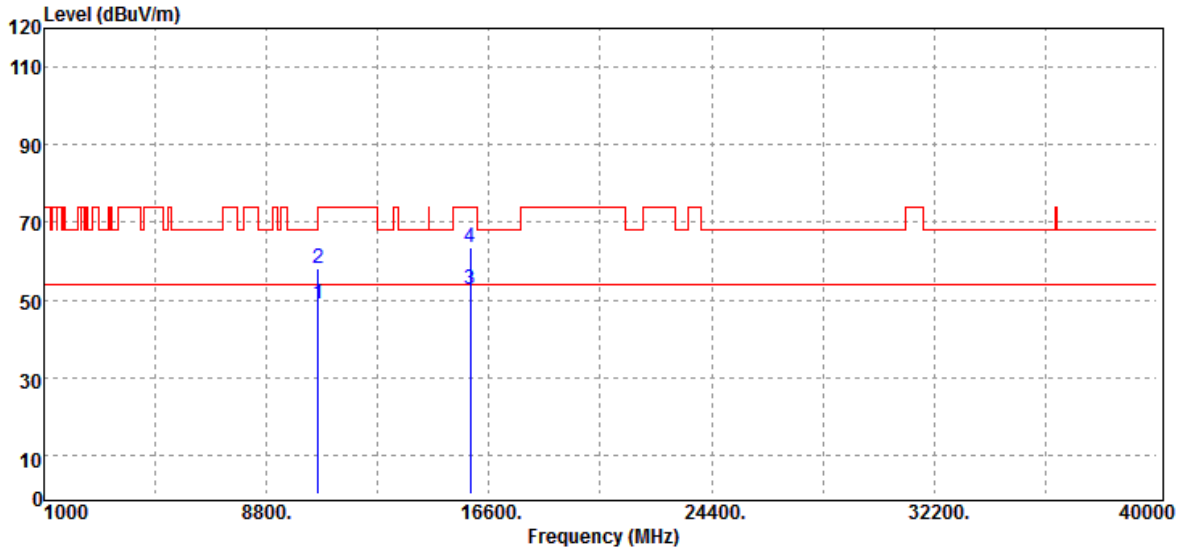
Test Mode	IEEE 802.11n 40 MHz / 5310 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10620.00	34.26	14.81	49.07	54.00	-4.93	Average
10620.00	43.26	14.81	58.07	74.00	-15.93	Peak
15930.00	33.12	19.43	52.55	54.00	-1.45	Average
15930.00	44.15	19.43	63.58	74.00	-10.42	Peak
N/A						

Remark:

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

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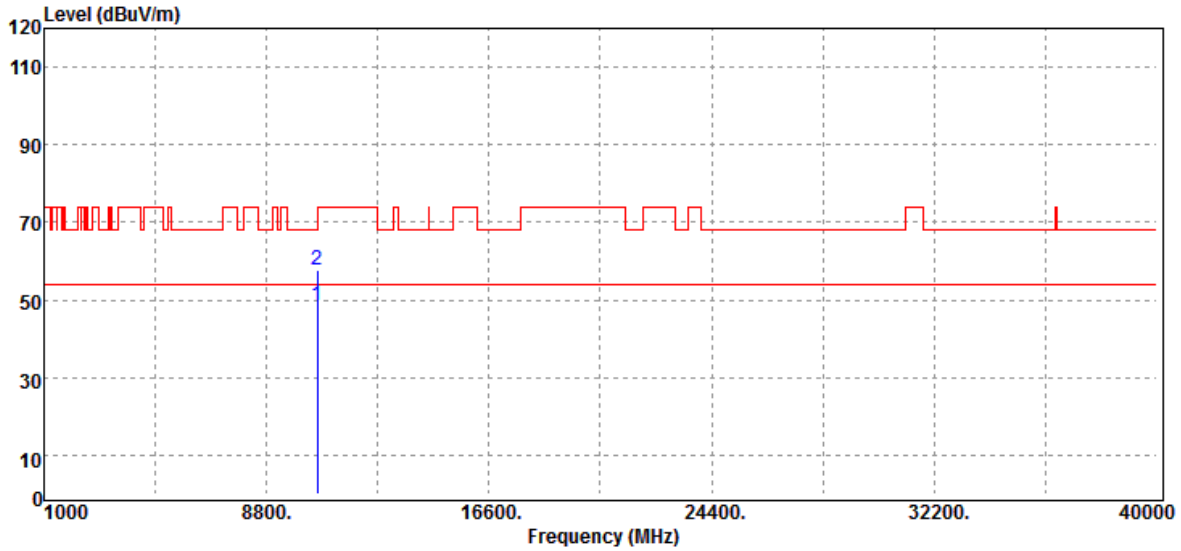
Test Mode	IEEE 802.11ac VHT80 / 5290 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10580.00	34.16	14.56	48.72	54.00	-5.28	Average
10580.00	43.23	14.56	57.79	68.20	-10.41	Peak
N/A						

Remark:

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

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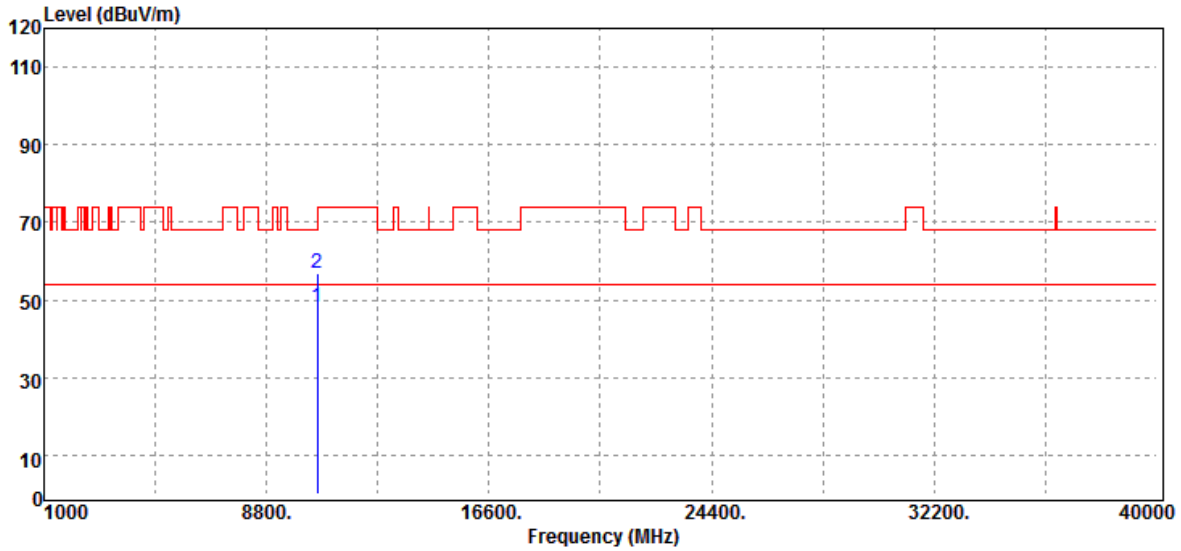
Test Mode	IEEE 802.11ac VHT80 / 5290 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10580.00	33.79	14.56	48.35	54.00	-5.65	Average
10580.00	42.12	14.56	56.68	68.20	-11.52	Peak
N/A						

Remark:

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

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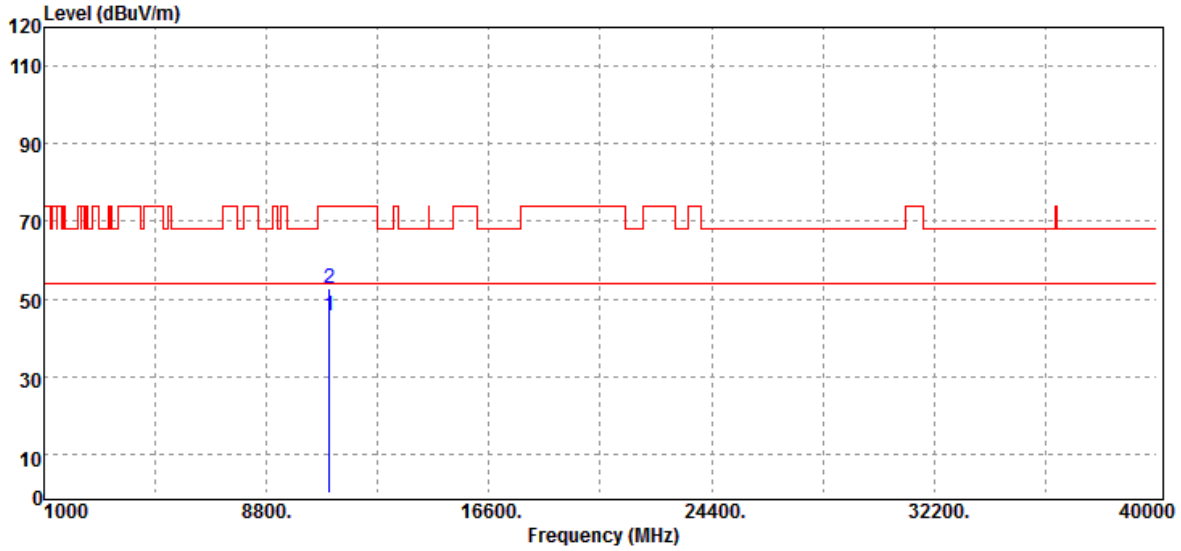
Above 1G Test Data for UNII-2c

Test Mode	IEEE 802.11a / 5500 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.00	29.85	15.80	45.65	54.00	-8.35	Average
11000.00	36.89	15.80	52.69	74.00	-21.31	Peak
N/A						

Remark:

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

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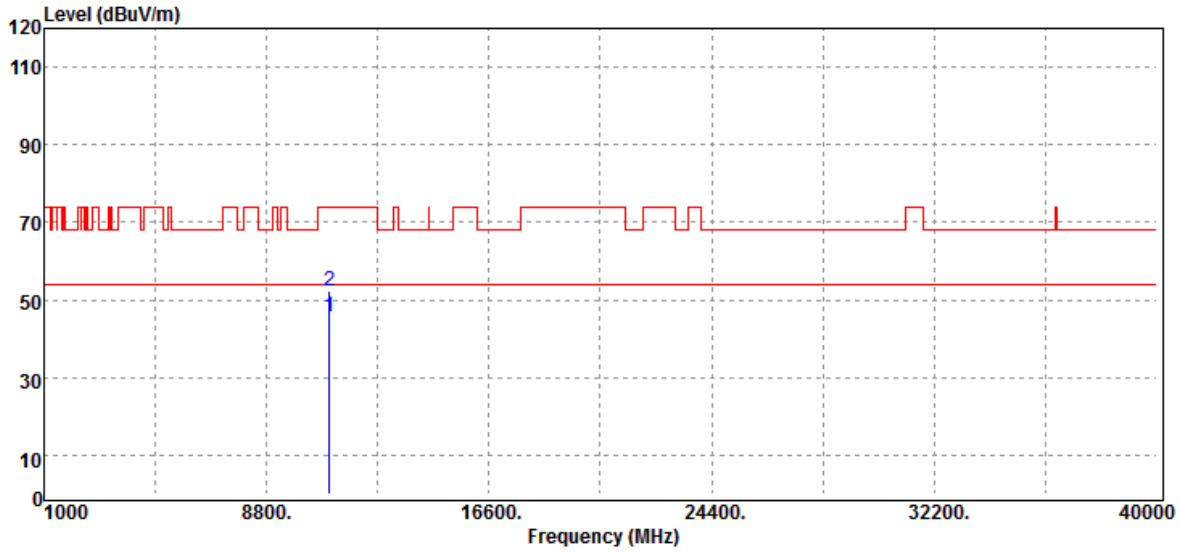
Test Mode	IEEE 802.11a / 5500 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.00	29.74	15.80	45.54	54.00	-8.46	Average
11000.00	36.40	15.80	52.20	74.00	-21.80	Peak
N/A						

Remark:

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

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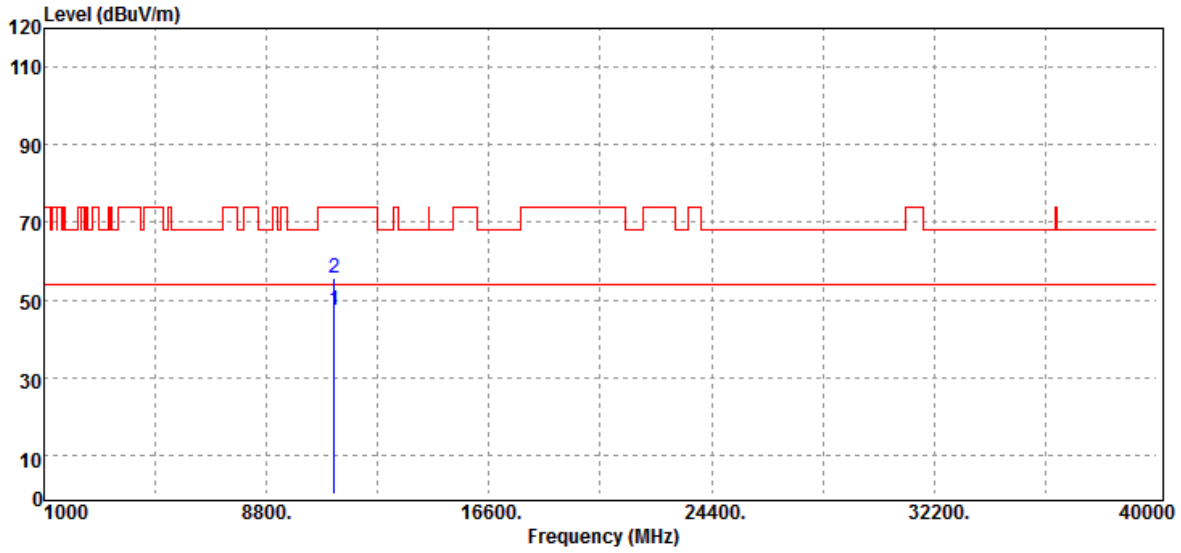
Test Mode	IEEE 802.11a / 5580 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.00	31.30	16.17	47.47	54.00	-6.53	Average
11160.00	39.27	16.17	55.44	74.00	-18.56	Peak
N/A						

Remark:

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

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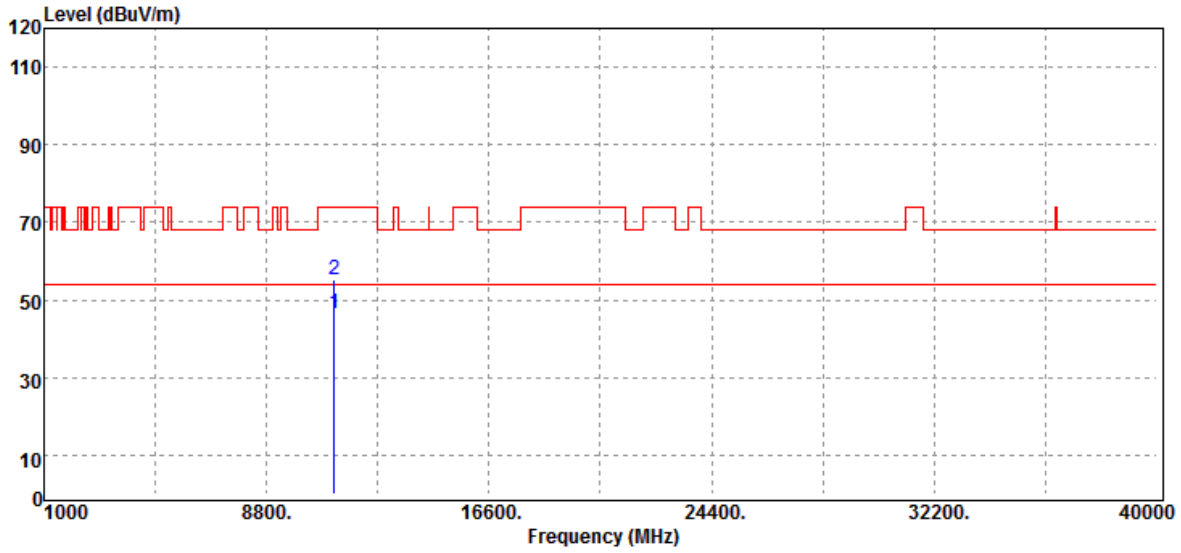
Test Mode	IEEE 802.11a / 5580 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.00	30.48	16.17	46.65	54.00	-7.35	Average
11160.00	39.23	16.17	55.40	74.00	-18.60	Peak
N/A						

Remark:

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

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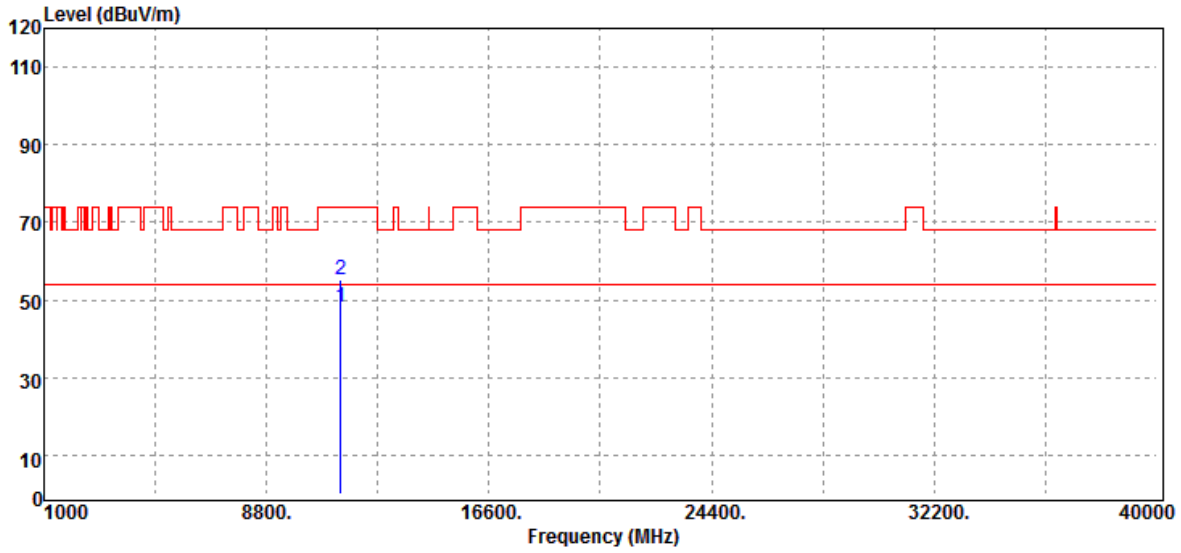
Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.00	32.11	15.94	48.05	54.00	-5.95	Average
11400.00	39.45	15.94	55.39	74.00	-18.61	Peak
N/A						

Remark:

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

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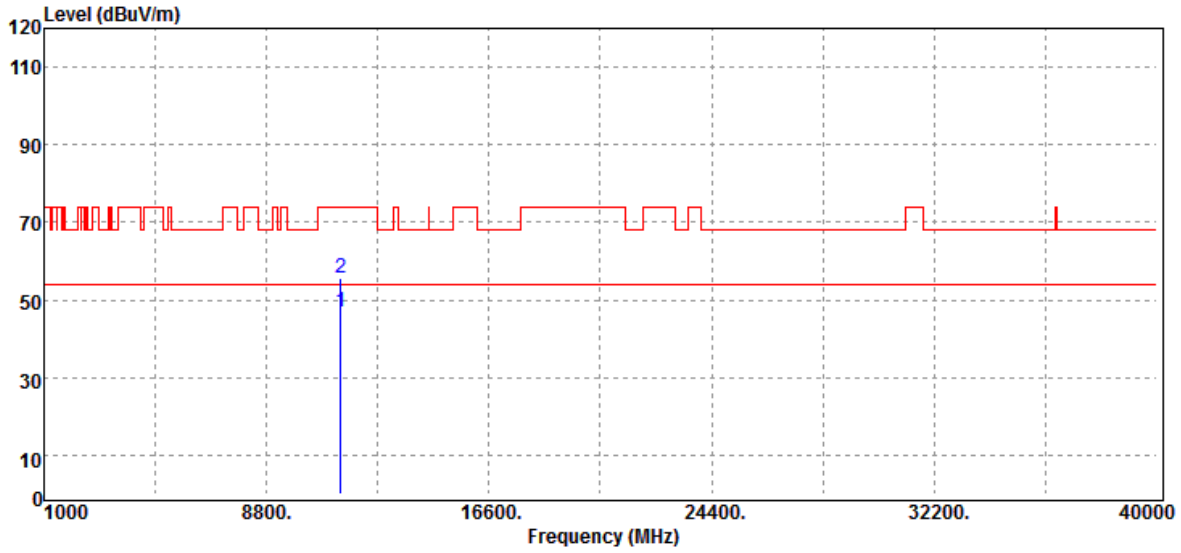
Test Mode	IEEE 802.11a / 5700 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.00	31.00	15.94	46.94	54.00	-7.06	Average
11400.00	39.50	15.94	55.44	74.00	-18.56	Peak
N/A						

Remark:

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

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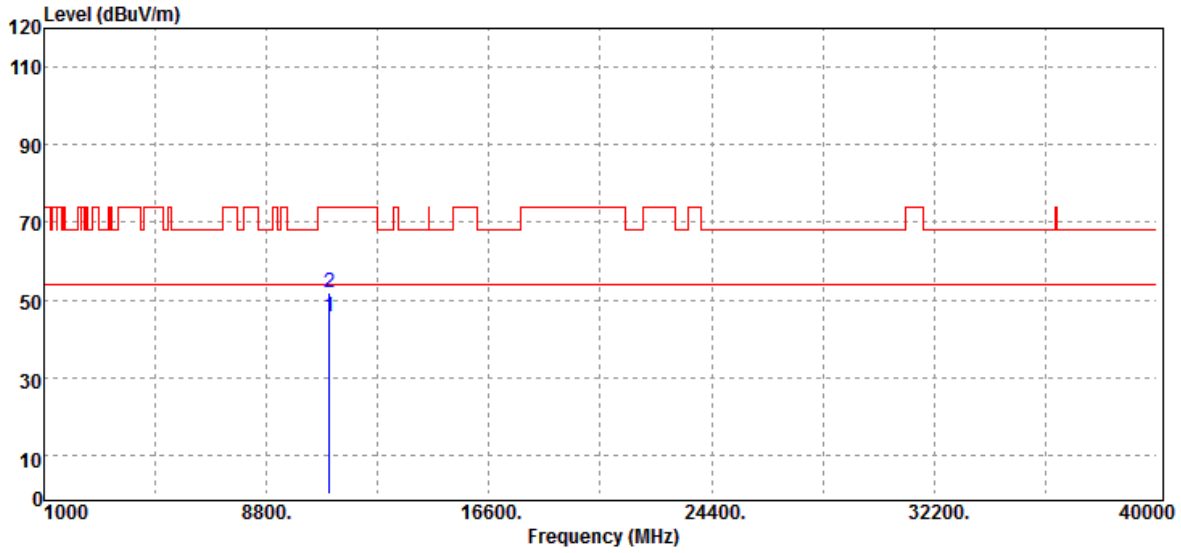
Test Mode	IEEE 802.11n 20 MHz / 5500 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.00	29.71	15.80	45.51	54.00	-8.49	Average
11000.00	36.04	15.80	51.84	74.00	-22.16	Peak
N/A						

Remark:

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

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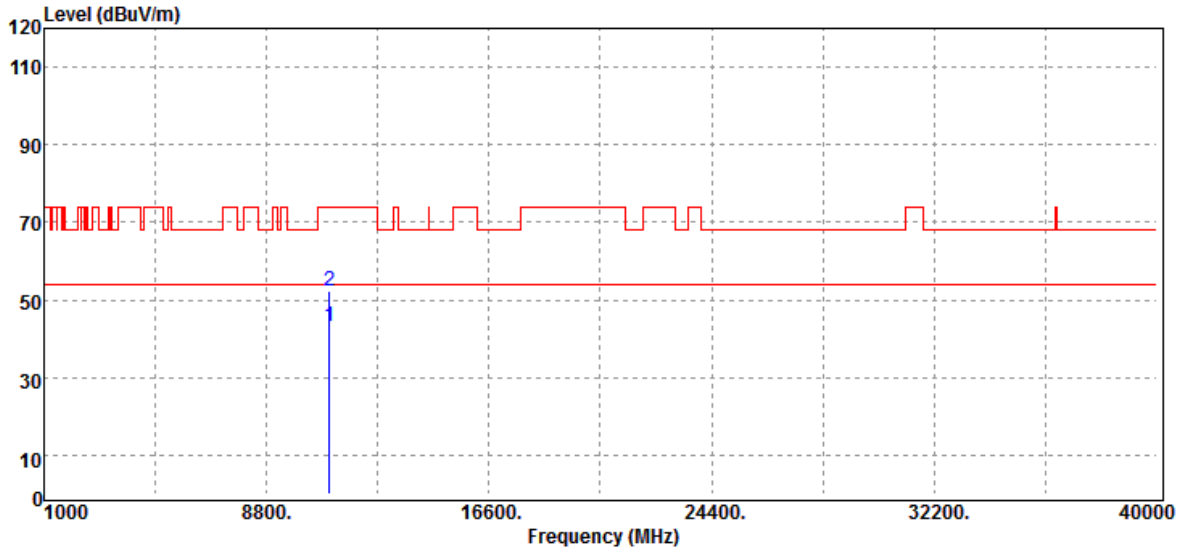
Test Mode	IEEE 802.11n 20 MHz / 5500 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11000.00	27.48	15.80	43.28	54.00	-10.72	Average
11000.00	36.36	15.80	52.16	74.00	-21.84	Peak
N/A						

Remark:

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

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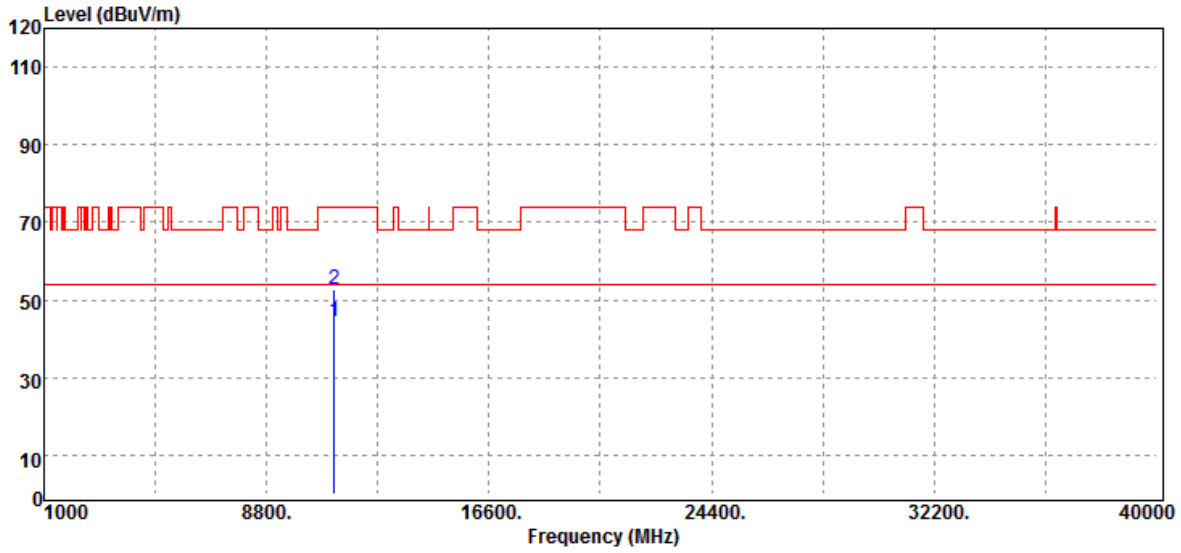
Test Mode	IEEE 802.11n 20 MHz / 5580 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.00	28.11	16.17	44.28	54.00	-9.72	Average
11160.00	36.56	16.17	52.73	74.00	-21.27	Peak
N/A						

Remark:

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

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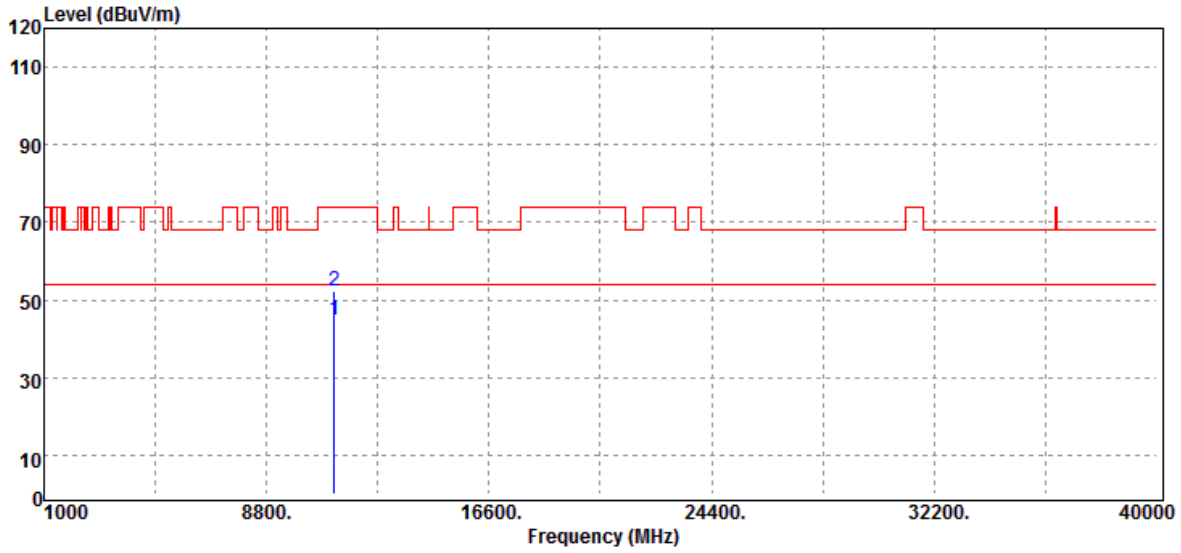
Test Mode	IEEE 802.11n 20 MHz / 5580 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11160.00	28.55	16.17	44.72	54.00	-9.28	Average
11160.00	36.01	16.17	52.18	74.00	-21.82	Peak
N/A						

Remark:

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

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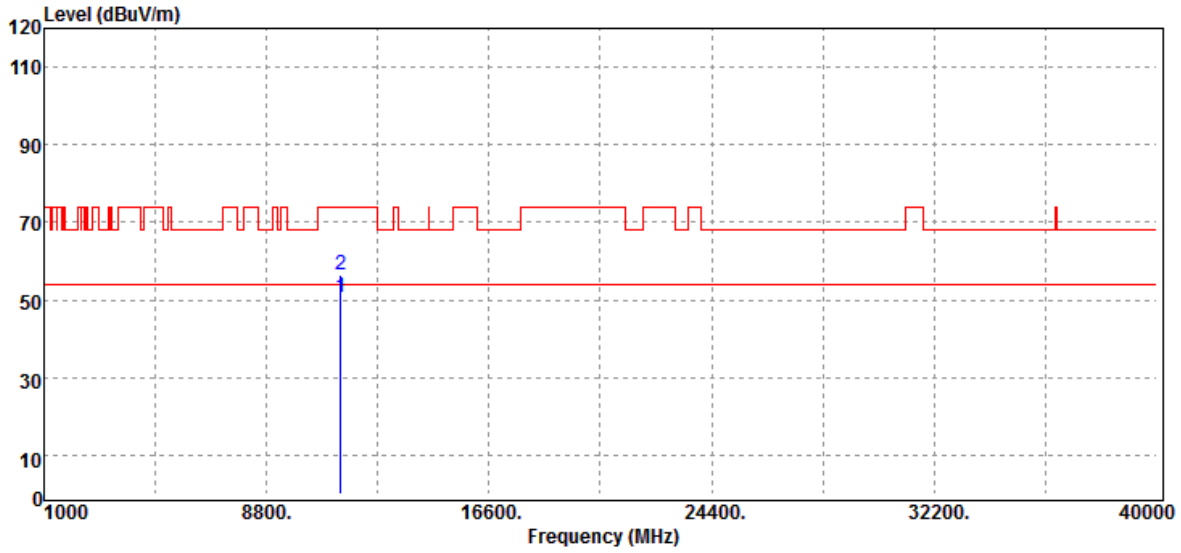
Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.00	34.51	15.94	50.45	54.00	-3.55	Average
11400.00	40.34	15.94	56.28	74.00	-17.72	Peak
N/A						

Remark:

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

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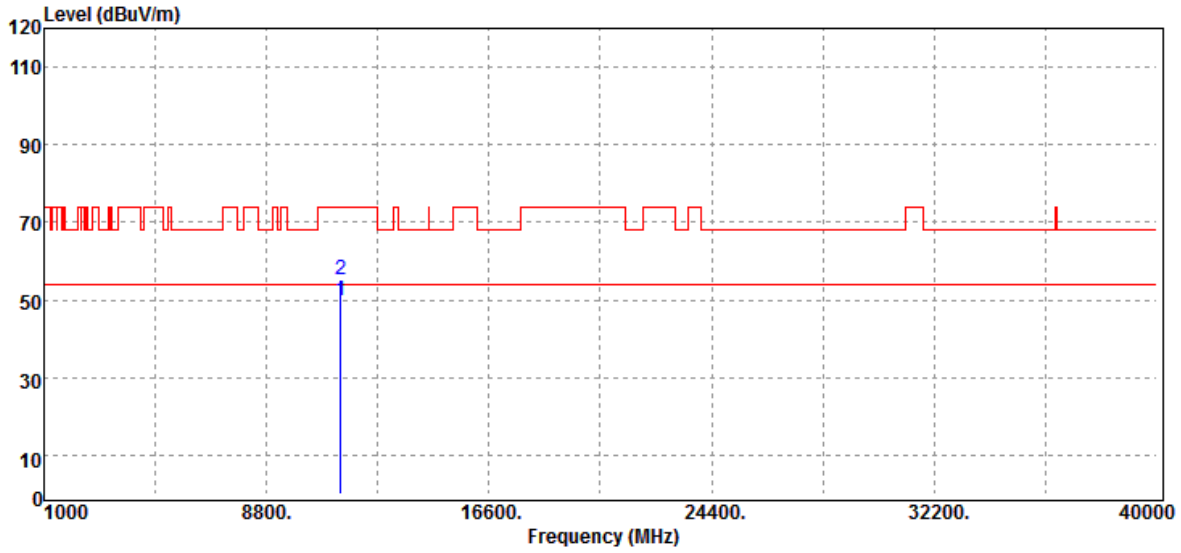
Test Mode	IEEE 802.11n 20 MHz / 5700 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11400.00	34.07	15.94	50.01	54.00	-3.99	Average
11400.00	39.45	15.95	55.40	74.00	-18.60	Peak
N/A						

Remark:

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

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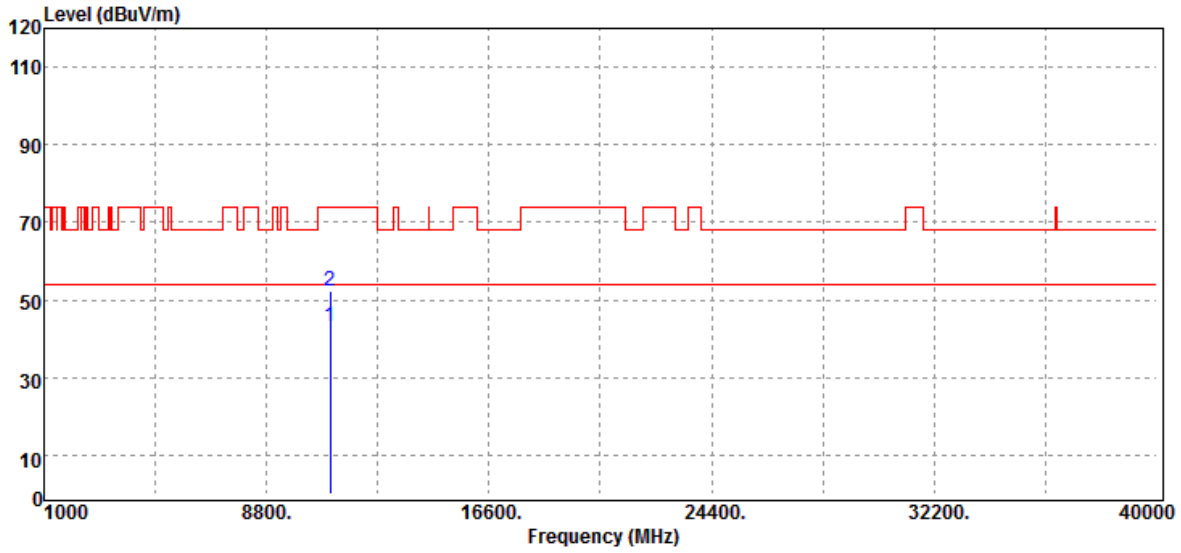
Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11020.00	27.15	15.84	42.99	54.00	-11.01	Average
11020.00	36.29	15.84	52.13	74.00	-21.87	Peak
N/A						

Remark:

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

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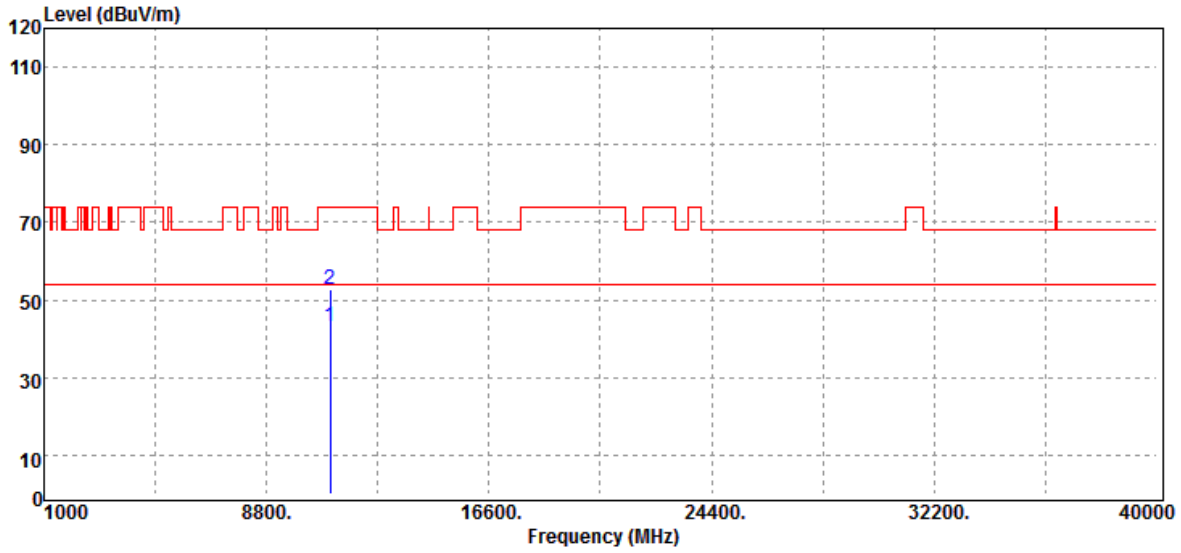
Test Mode	IEEE 802.11n 40 MHz / 5510 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11020.00	27.49	15.84	43.33	54.00	-10.67	Average
11020.00	36.88	15.84	52.72	74.00	-21.28	Peak
N/A						

Remark:

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

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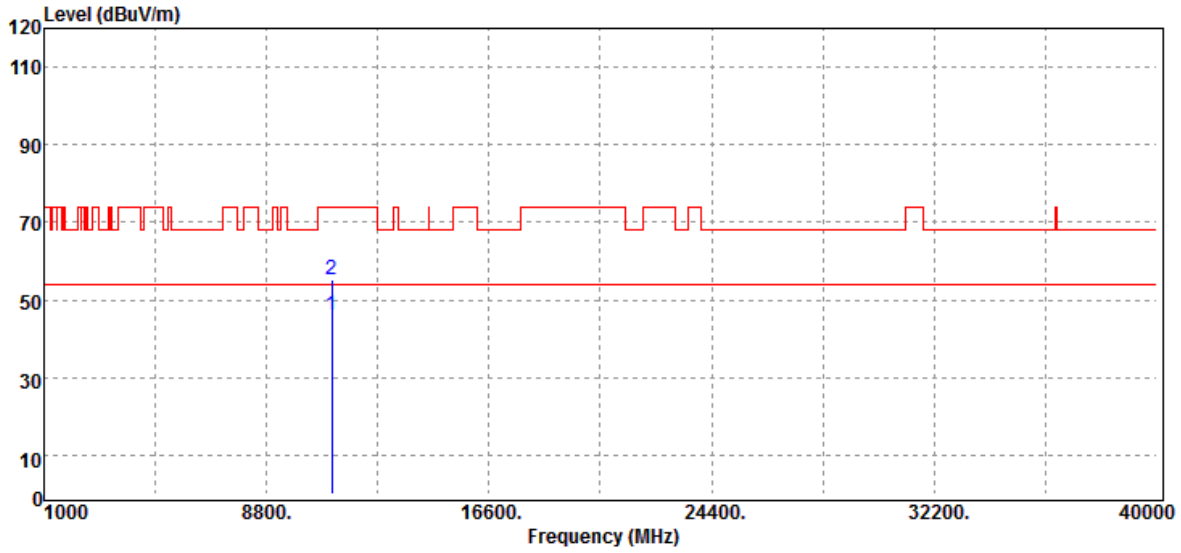
Test Mode	IEEE 802.11n 40 MHz / 5550 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11100.00	29.62	16.39	46.01	54.00	-7.99	Average
11100.00	38.78	16.39	55.17	74.00	-18.83	Peak
N/A						

Remark:

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

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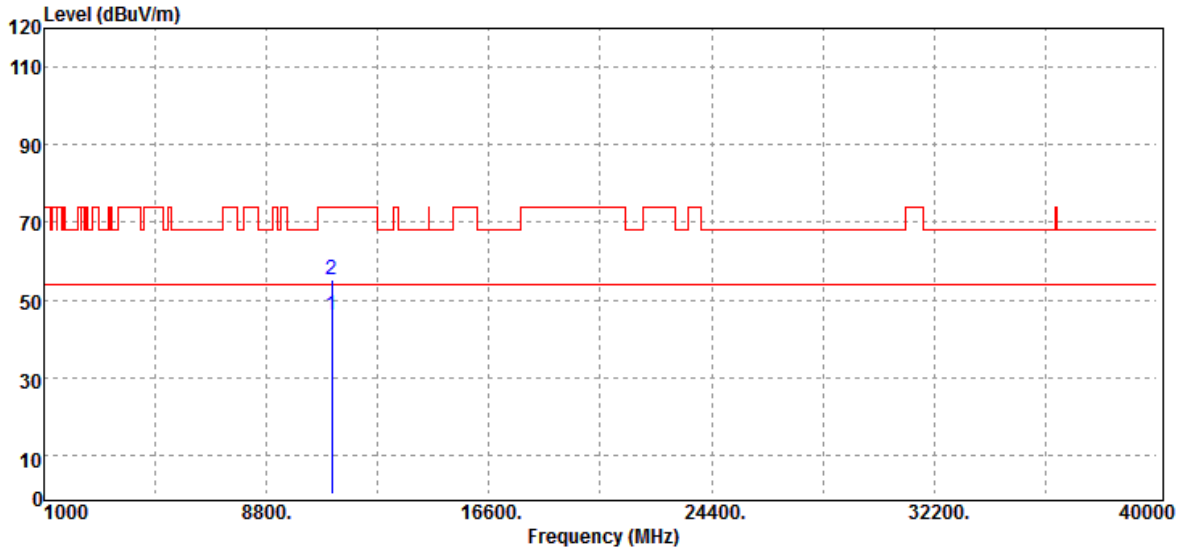
Test Mode	IEEE 802.11n 40 MHz / 5550 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11100.00	29.88	16.39	46.27	54.00	-7.73	Average
11100.00	39.03	16.39	55.42	74.00	-18.58	Peak
N/A						

Remark:

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

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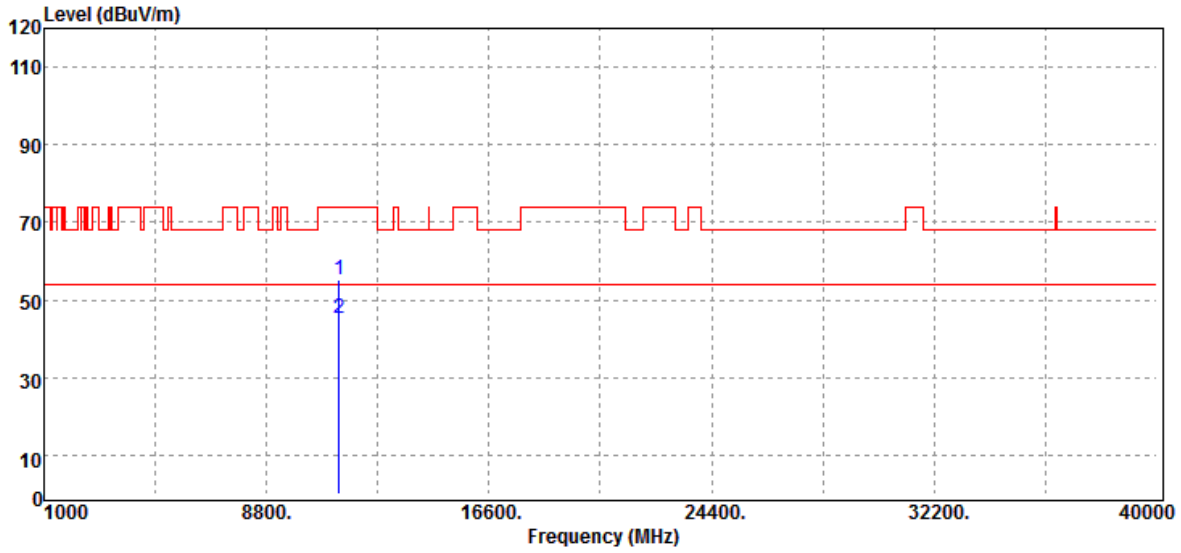
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11340.00	39.21	15.99	55.20	74.00	-18.80	Peak
11340.00	29.32	15.99	45.31	74.00	-28.69	Peak
N/A						

Remark:

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

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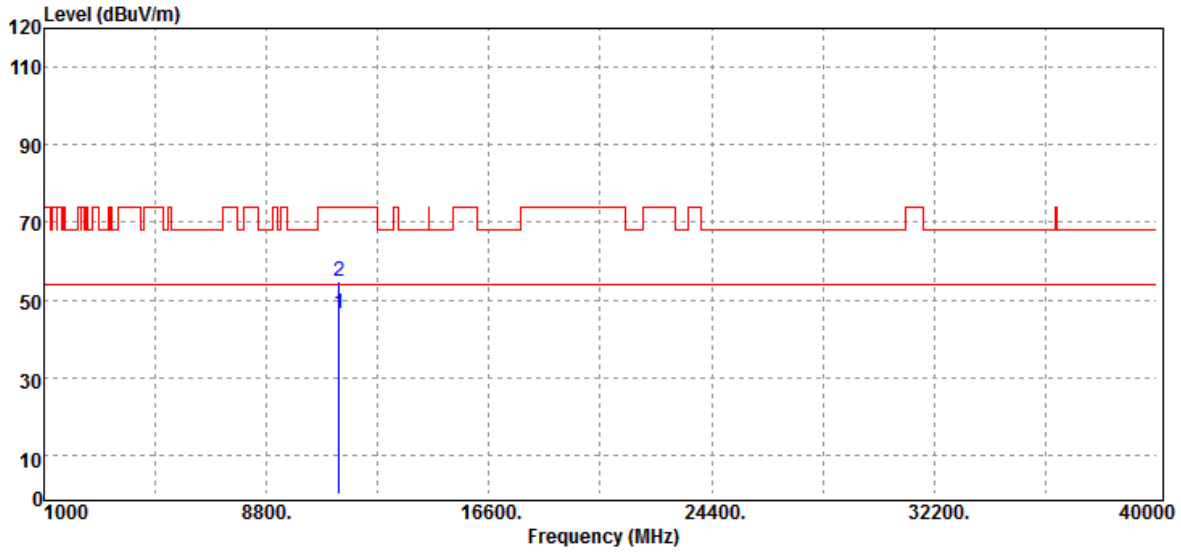
Test Mode	IEEE 802.11n 40 MHz / 5670 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11340.00	30.62	15.99	46.61	54.00	-7.39	Average
11340.00	38.77	15.99	54.76	74.00	-19.24	Peak
N/A						

Remark:

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

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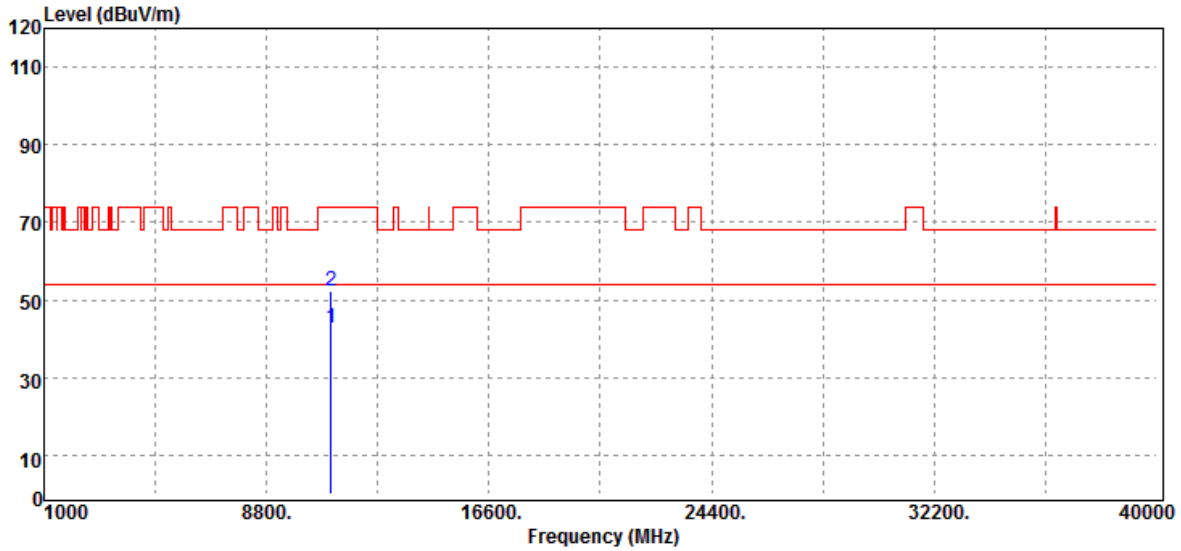
Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11060.00	26.59	16.08	42.67	54.00	-11.33	Average
11060.00	36.08	16.08	52.16	74.00	-21.84	Peak
N/A						

Remark:

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

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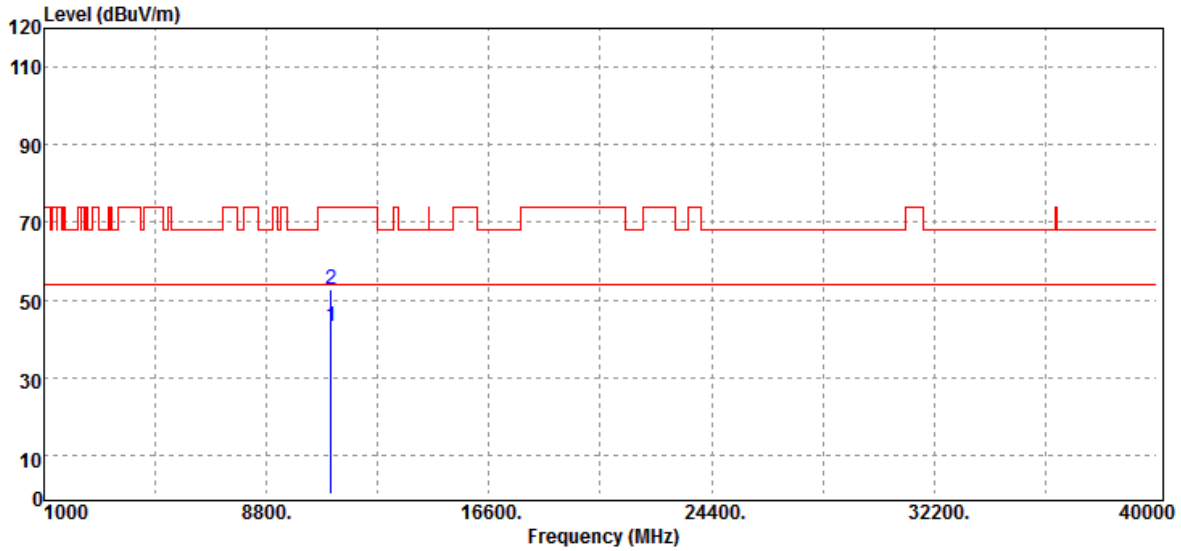
Test Mode	IEEE 802.11ac VHT80 / 5530 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11060.00	27.16	16.08	43.24	54.00	-10.76	Average
11060.00	36.70	16.08	52.78	74.00	-21.22	Peak
N/A						

Remark:

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

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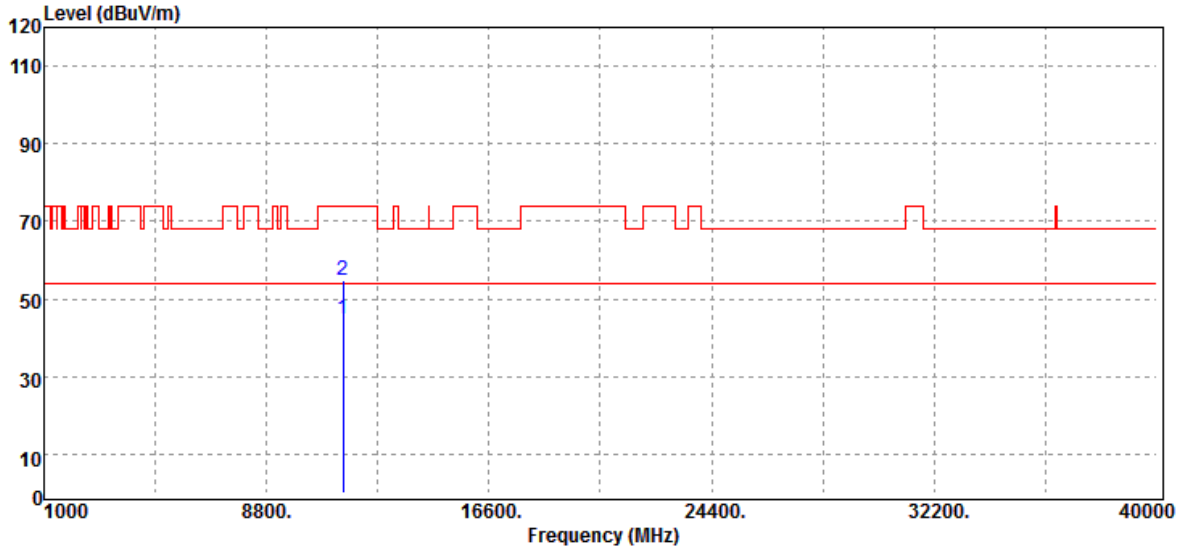
Above 1G Test Data for UNII-3

Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	29.27	15.57	44.84	54.00	-9.16	Average
11490.00	39.33	15.57	54.90	74.00	-19.10	Peak
N/A						

Remark:

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

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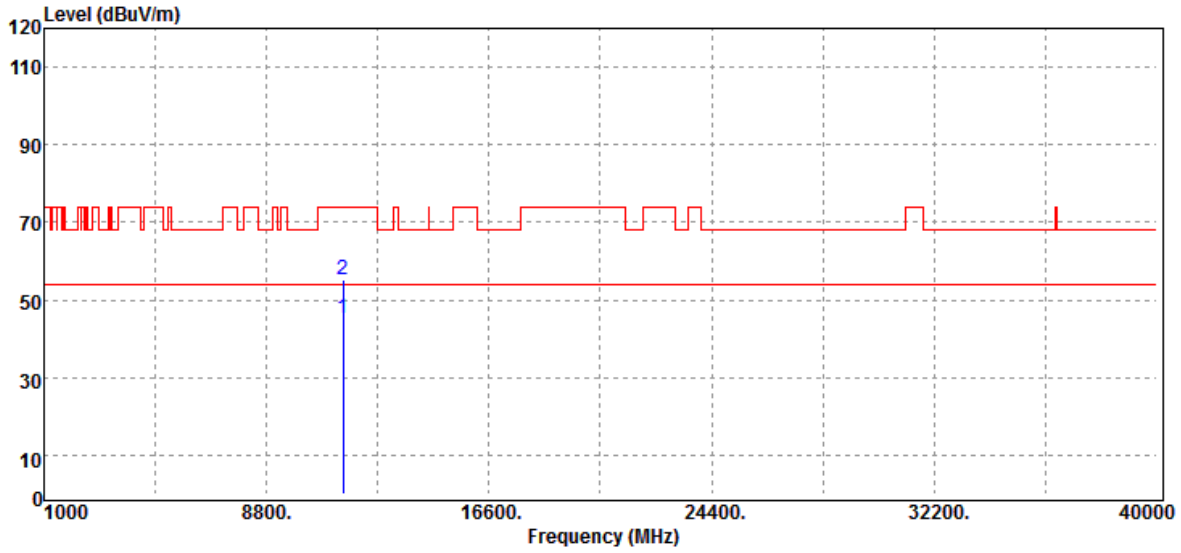
Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	29.85	15.57	45.42	54.00	-8.58	Average
11490.00	39.76	15.57	55.33	74.00	-18.67	Peak
N/A						

Remark:

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

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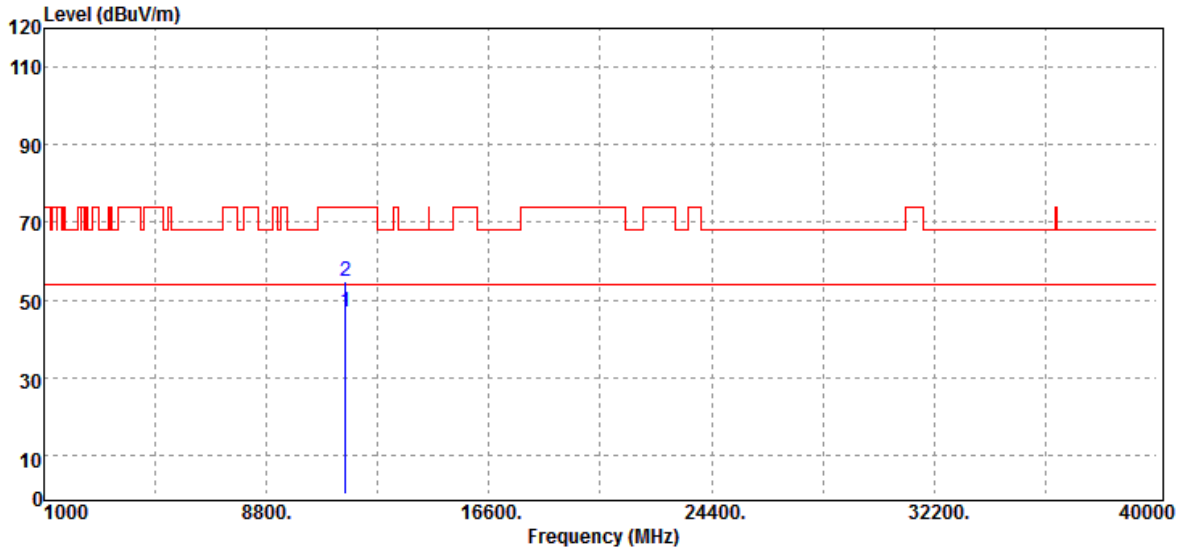
Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	31.51	15.50	47.01	54.00	-6.99	Average
11570.00	39.44	15.50	54.94	74.00	-19.06	Peak
N/A						

Remark:

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

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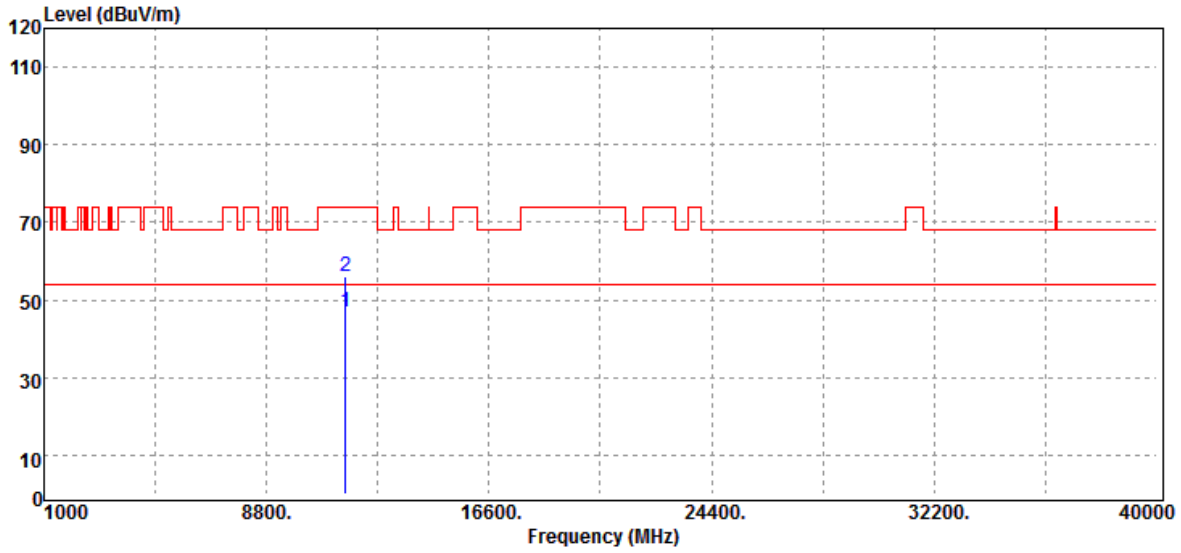
Test Mode	IEEE 802.11a / 5745 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	31.46	15.50	46.96	54.00	-7.04	Average
11570.00	40.39	15.50	55.89	74.00	-18.11	Peak
N/A						

Remark:

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

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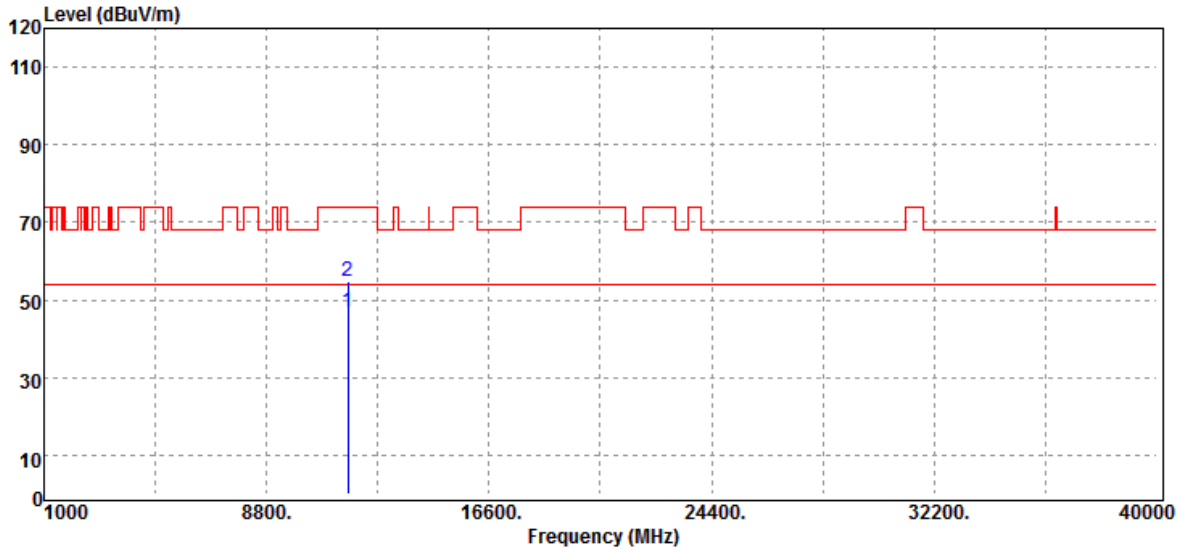
Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	31.27	15.53	46.80	54.00	-7.20	Average
11650.00	39.32	15.53	54.85	74.00	-19.15	Peak
N/A						

Remark:

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

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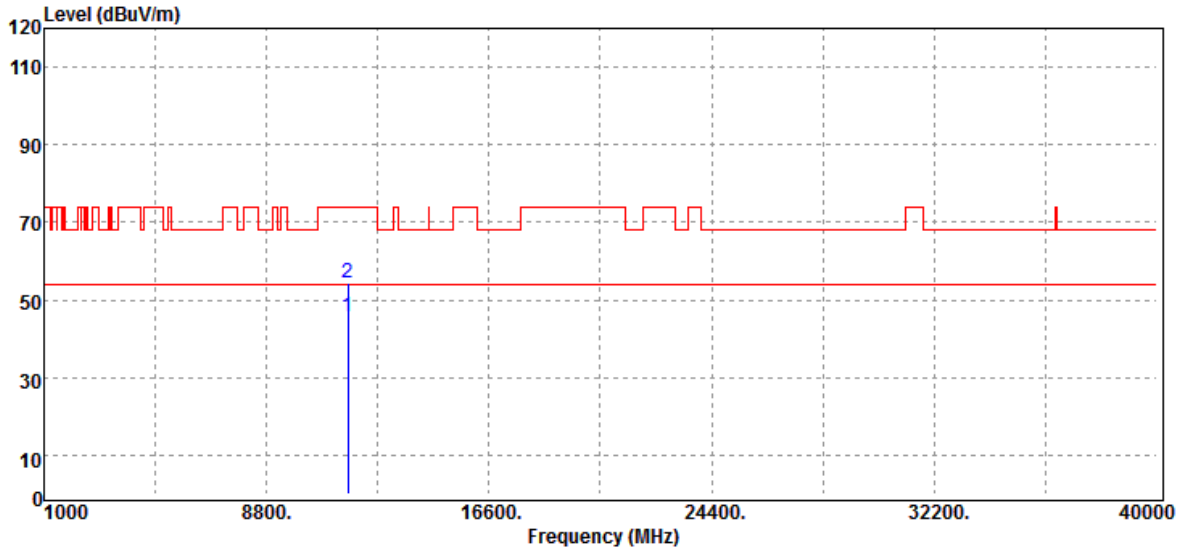
Test Mode	IEEE 802.11a / 5825 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	30.34	15.53	45.87	54.00	-8.13	Average
11650.00	39.04	15.53	54.57	74.00	-19.43	Peak
N/A						

Remark:

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

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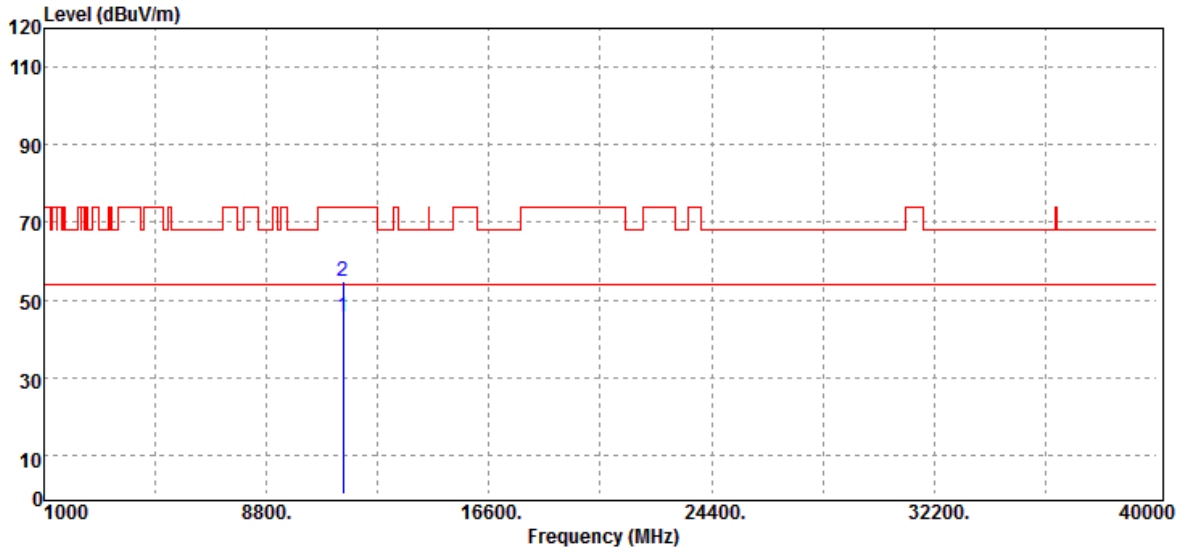
Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	29.99	15.57	45.56	54.00	-8.44	Average
11490.00	39.10	15.57	54.67	74.00	-19.33	Peak
N/A						

Remark:

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

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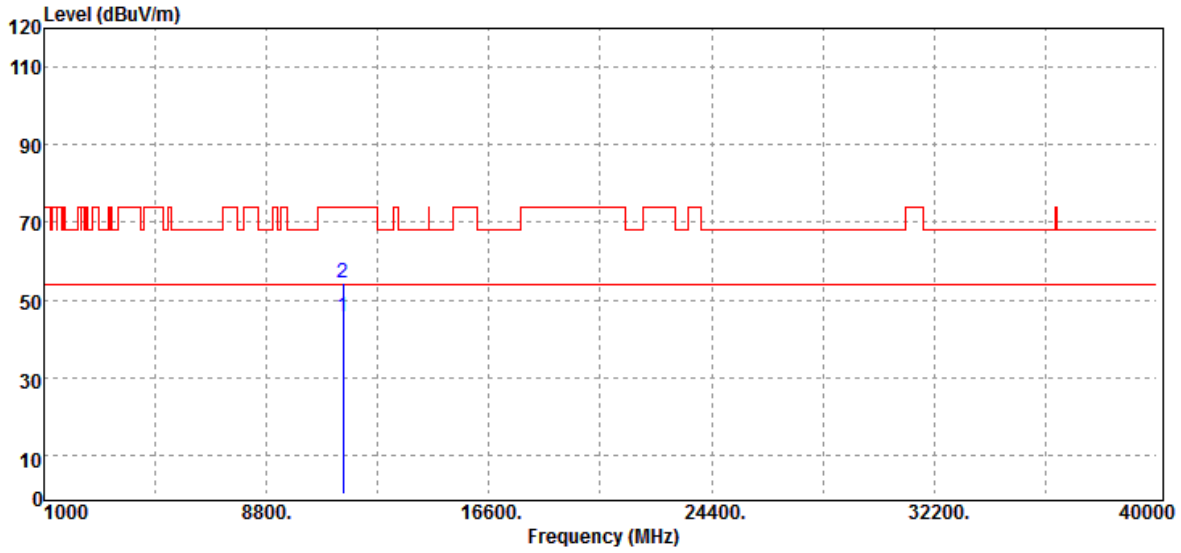
Test Mode	IEEE 802.11n 20 MHz / 5745 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	30.16	15.57	45.73	54.00	-8.27	Average
11490.00	38.86	15.57	54.43	74.00	-19.57	Peak
N/A						

Remark:

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

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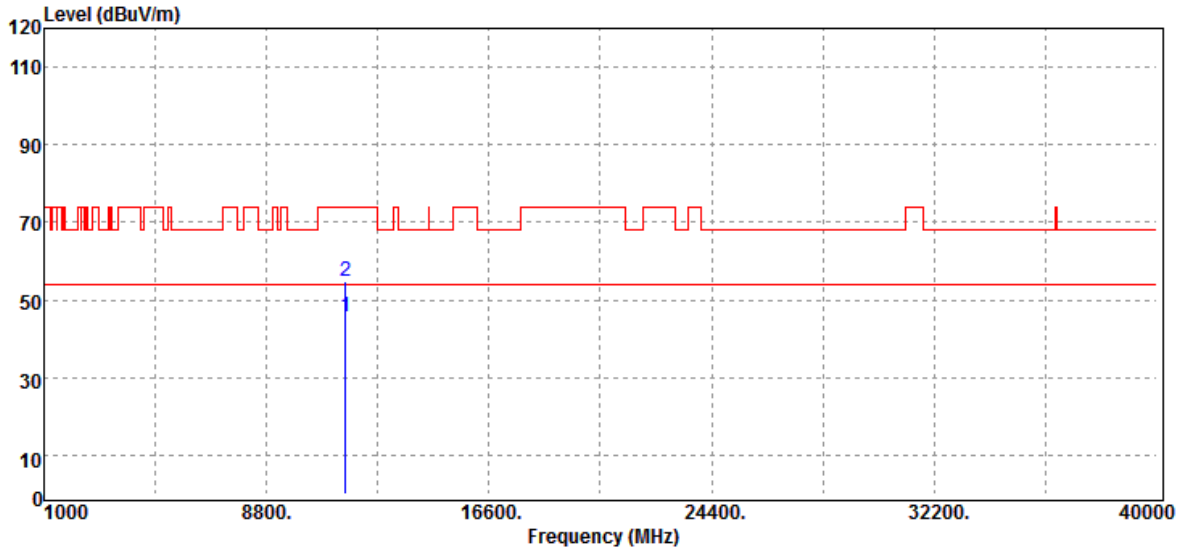
Test Mode	IEEE 802.11n 20 MHz/ 5785 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	30.16	15.50	45.66	54.00	-8.34	Average
11570.00	39.11	15.50	54.61	74.00	-19.39	Peak
N/A						

Remark:

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

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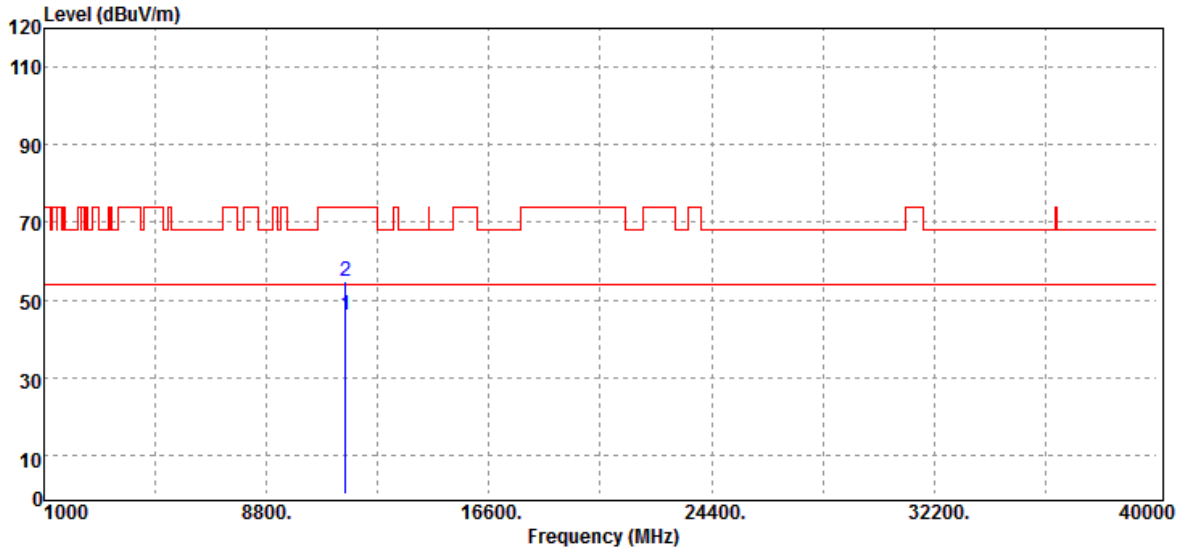
Test Mode	IEEE 802.11n 20 MHz/ 5785 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	30.77	15.50	46.27	54.00	-7.73	Average
11570.00	39.33	15.50	54.83	74.00	-19.17	Peak
N/A						

Remark:

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

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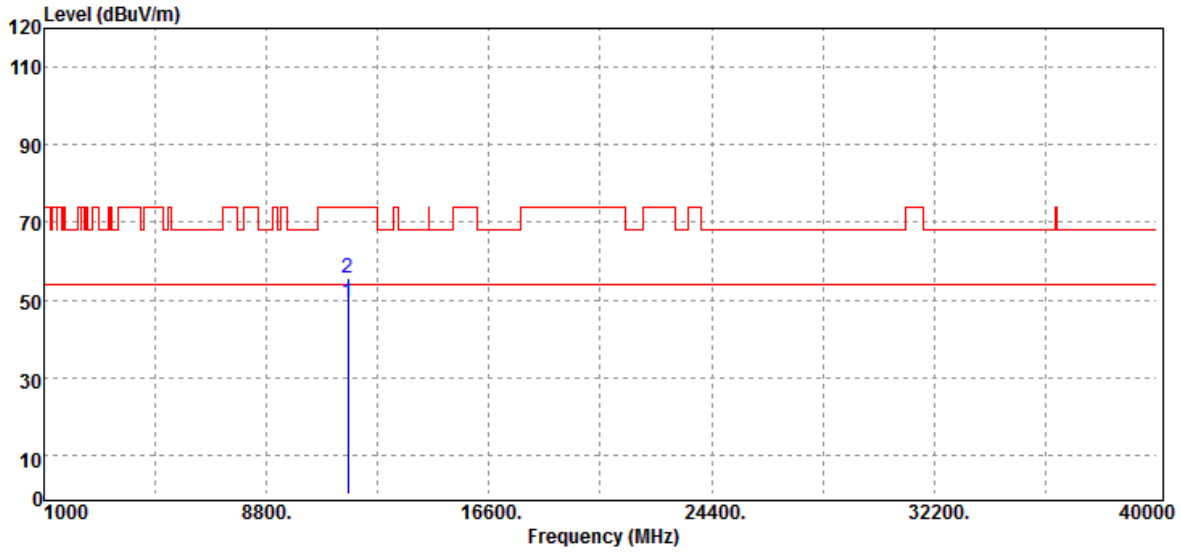
Test Mode	IEEE 802.11n 20 MHz/ 5825 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	33.85	15.53	49.38	54.00	-4.62	Average
11650.00	40.09	15.53	55.62	74.00	-18.38	Peak
N/A						

Remark:

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

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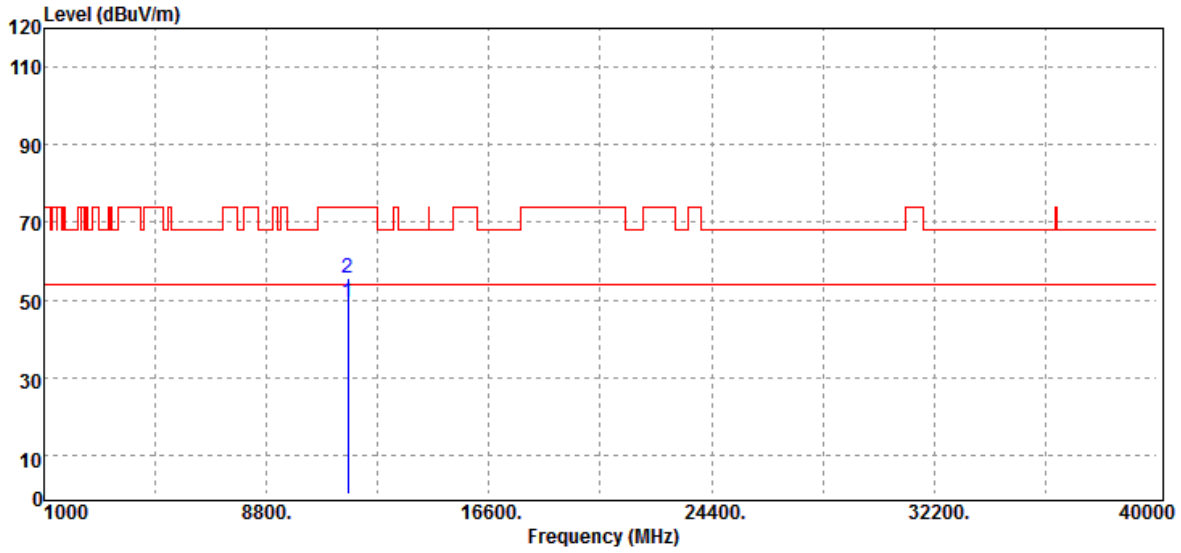
Test Mode	IEEE 802.11n 20 MHz/ 5825 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	33.68	15.53	49.21	54.00	-4.79	Average
11650.00	39.96	15.53	55.49	74.00	-18.51	Peak
N/A						

Remark:

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

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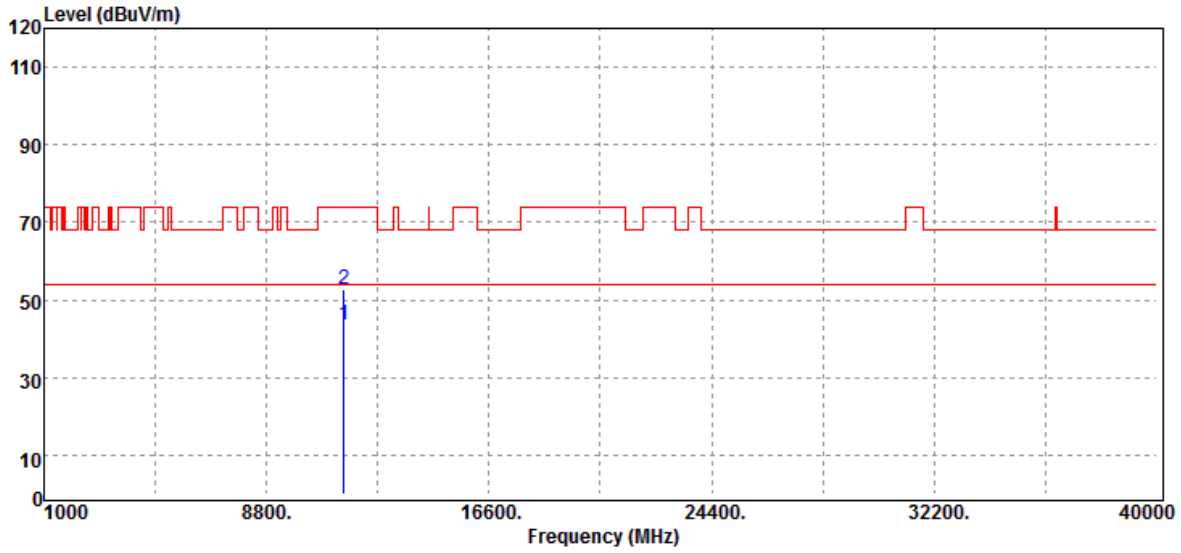
Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.00	28.15	15.35	43.50	54.00	-10.50	Average
11510.00	37.21	15.35	52.56	74.00	-21.44	Peak
N/A						

Remark:

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

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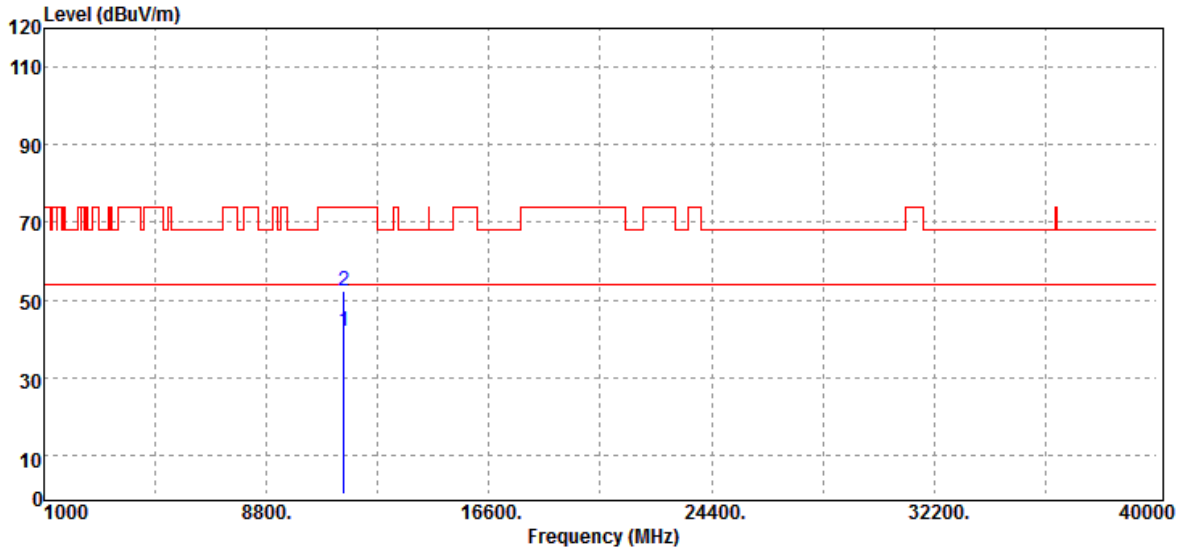
Test Mode	IEEE 802.11n 40 MHz/ 5755 MHz	Temp/Hum	22(℃)/ 53%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.00	26.78	15.35	42.13	54.00	-11.87	Average
11510.00	36.97	15.35	52.32	74.00	-21.68	Peak
N/A						

Remark:

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

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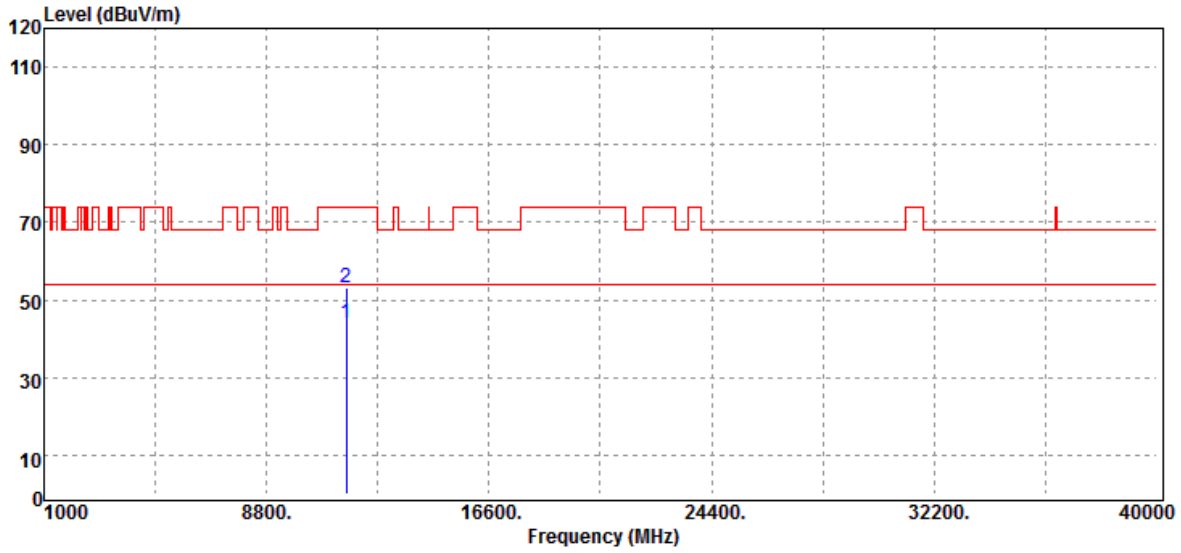
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.00	28.43	15.62	44.05	54.00	-9.95	Average
11590.00	37.65	15.62	53.27	74.00	-20.73	Peak
N/A						

Remark:

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

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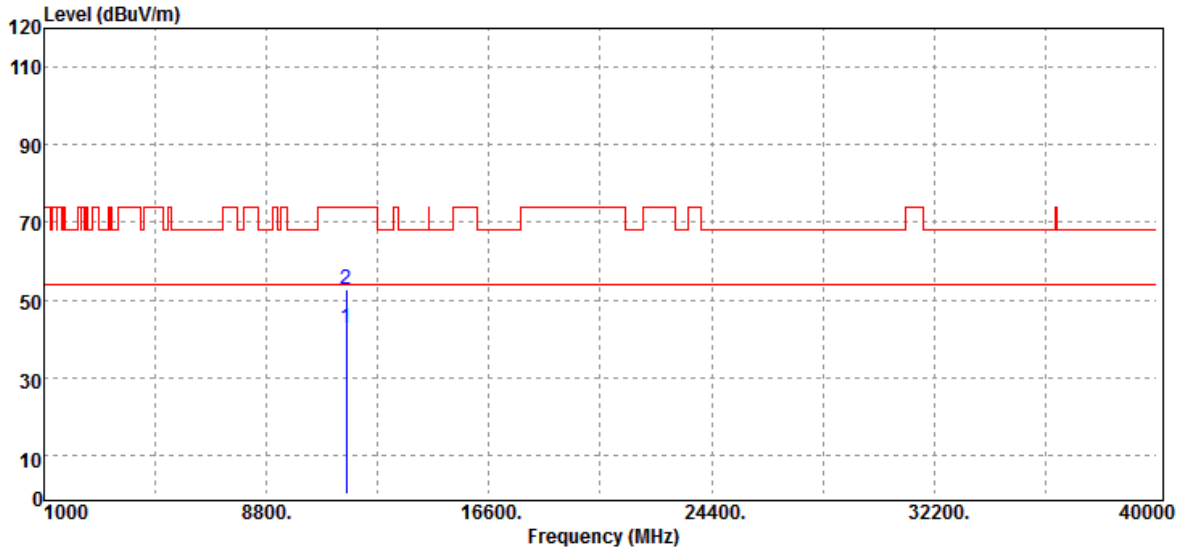
Test Mode	IEEE 802.11n 40 MHz/ 5795 MHz	Temp/Hum	22(℃)/ 52%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.00	26.96	15.62	42.58	54.00	-11.42	Average
11590.00	37.22	15.62	52.84	74.00	-21.16	Peak
N/A						

Remark:

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

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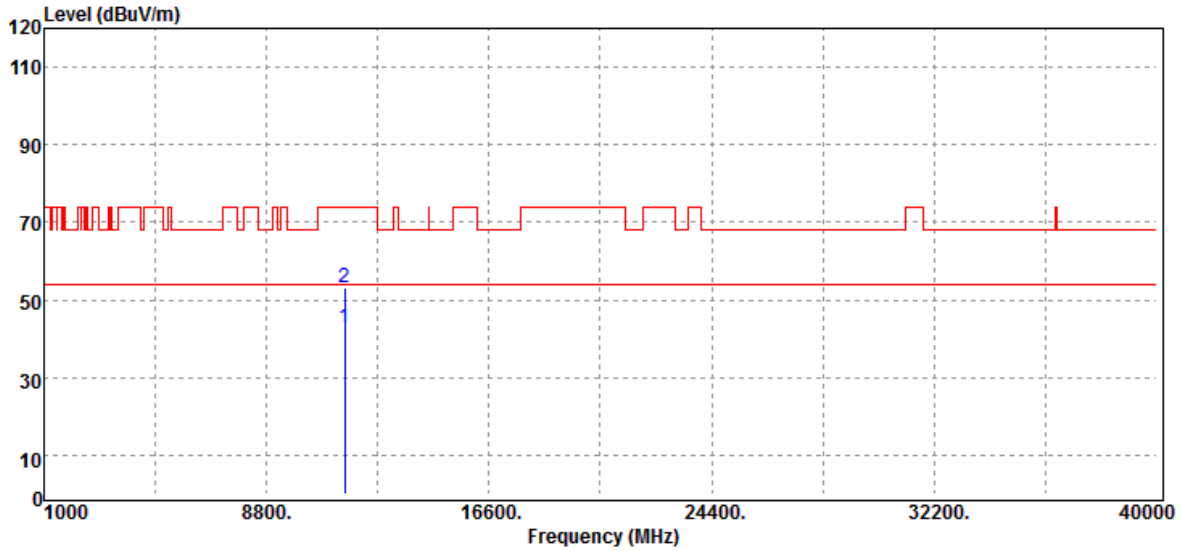
Test Mode	IEEE 802.11ac VHT80/ 5775 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Vertical	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.00	27.48	15.39	42.87	54.00	-11.13	Average
11550.00	37.66	15.39	53.05	74.00	-20.95	Peak
N/A						

Remark:

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

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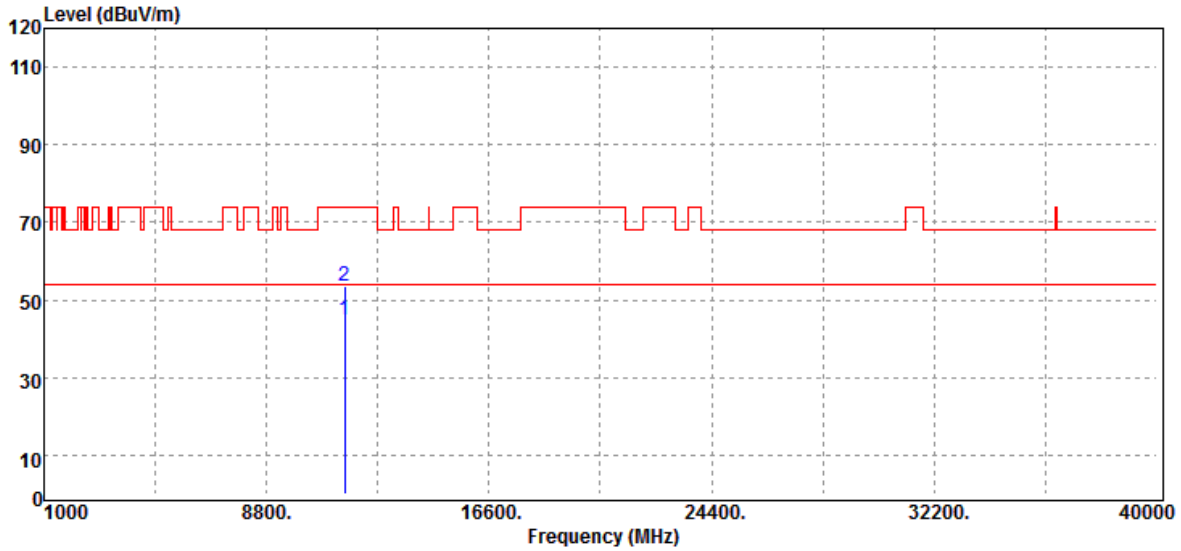
Test Mode	IEEE 802.11ac VHT80/ 5775 MHz	Temp/Hum	22(℃)/ 54%RH
Test Item	Harmonic	Test Date	April 24, 2019
Polarize	Horizontal	Test Engineer	Kailin Lee
Detector	Peak and Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.00	29.38	15.39	44.77	54.00	-9.23	Average
11550.00	37.99	15.39	53.38	74.00	-20.62	Peak
N/A						

Remark:

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

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4.6 FREQUENCY STABILITY

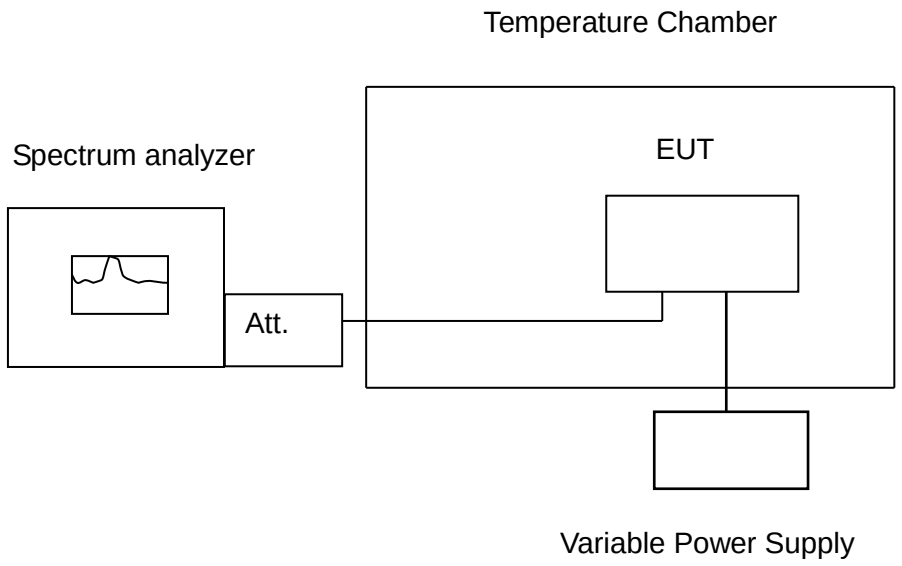
4.6.1 Test Limit

According to §15.407(g) manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the operational description.

4.6.2 Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20ºC operating frequency as reference frequency. Turn EUT off and set the chamber temperature to –20ºC. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10ºC increased per stage until the highest temperature of +55ºC reached.

4.6.3 Test Setup



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4.6.4 Test Result

Temp. (ºC)	Voltage (V)	Measured Frequency	5180		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
55	5	5180.00564	5180.00564	5180.00564	5180.00564	1.0888	1.0888	1.0888	1.0888	Pass
50	5	5180.00564	5180.00564	5180.00564	5180.00564	1.0888	1.0888	1.0888	1.0888	Pass
40	5	5180.00087	5180.00825	5180.00825	5180.00825	0.1676	1.5927	1.5927	1.5927	Pass
30	5	5180.00521	5180.00564	5180.00564	5180.00564	1.0058	1.0888	1.0888	1.0888	Pass
25	5	5180.01650	5180.01650	5180.01650	5180.01650	3.1853	3.1853	3.1853	3.1853	Pass
10	5	5180.01693	5180.01693	5180.01693	5180.01693	3.2683	3.2683	3.2683	3.2683	Pass
0	5	5180.02388	5180.02258	5180.02214	5180.02170	4.6100	4.3591	4.2741	4.1892	Pass
-10	5	5180.01302	5180.01346	5180.01389	5180.01433	2.5135	2.5985	2.6815	2.7664	Pass
-20	5	5180.02431	5180.02518	5180.02562	5180.02605	4.6931	4.8610	4.9459	5.0290	Pass
Temp. (ºC)	Voltage (V)	Measured Frequency	5180		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
25	4.5	5180.01302	5180.01259	5180.01172	5180.01129	2.5135	2.4305	2.2625	2.1795	Pass
25	5	5180.01172	5180.01172	5180.00999	5180.01085	2.2625	2.2625	1.9286	2.0946	Pass
25	5.5	5180.01302	5180.01129	5180.01172	5180.01042	2.5135	2.1795	2.2625	2.0116	Pass

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Temp. (ºC)	Voltage (V)	Measured Frequency	5260		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
55	5	5260.00608	5260.00608	5260.00608	5260.00608	1.1559	1.1559	1.1559	1.1559	Pass
50	5	5260.00608	5260.00608	5260.00608	5260.00564	1.1559	1.1559	1.1559	1.0722	Pass
40	5	5260.00564	5260.00564	5260.00521	5260.00564	1.0722	1.0722	0.9905	1.0722	Pass
30	5	5260.00521	5260.00521	5260.00521	5260.00521	0.9905	0.9905	0.9905	0.9905	Pass
25	5	5260.01606	5260.01606	5260.01606	5260.01606	3.0532	3.0532	3.0532	3.0532	Pass
10	5	5260.02214	5260.02084	5260.02041	5260.01997	4.2091	3.9620	3.8802	3.7966	Pass
0	5	5260.02301	5260.02301	5260.02301	5260.02301	4.3745	4.3745	4.3745	4.3745	Pass
-10	5	5260.02214	5260.02171	5260.02171	5260.02214	4.2091	4.1274	4.1274	4.2091	Pass
-20	5	5260.03039	5260.02996	5260.02996	5260.03039	5.7776	5.6958	5.6958	5.7776	Pass
Temp. (ºC)	Voltage (V)	Measured Frequency	5260		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
25	4.5	5260.01433	5260.01433	5260.01476	5260.01476	2.7243	2.7243	2.8061	2.8061	Pass
25	5	5260.01606	5260.01606	5260.01606	5260.01563	3.0532	3.0532	3.0532	2.9715	Pass
25	5.5	5260.01563	5260.01520	5260.01476	5260.01476	2.9715	2.8897	2.8061	2.8061	Pass

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Temp. (ºC)	Voltage (V)	Measured Frequency	5500		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
55	5	5500.02214	5500.02865	5500.02865	5500.03039	4.0255	5.2091	5.2091	5.5255	Pass
50	5	5500.00999	5500.01520	5500.01780	5500.02041	1.8164	2.7636	3.2364	3.7109	Pass
40	5	5499.99653	5499.99696	5499.99740	5499.99783	-0.6309	-0.5527	-0.4727	-0.3945	Pass
30	5	5499.99479	5499.99479	5499.99479	5499.99522	-0.9473	-0.9473	-0.9473	-0.8691	Pass
25	5	5500.00087	5500.00000	5499.99957	5499.99987	0.1582	0.0000	-0.0782	-0.0236	Pass
10	5	5500.00129	5500.00608	5500.00478	5500.00347	0.2345	1.1055	0.8691	0.6309	Pass
0	5	5500.00825	5500.00781	5500.00695	5500.00608	1.5000	1.4200	1.2636	1.1055	Pass
-10	5	5500.00174	5500.00260	5500.00304	5500.00347	0.3164	0.4727	0.5527	0.6309	Pass
-20	5	5500.03560	5500.03517	5500.03560	5500.03560	6.4727	6.3945	6.4727	6.4727	Pass
Temp. (ºC)	Voltage (V)	Measured Frequency	5500		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
25	4.5	5500.00087	5500.00087	5499.99957	5499.99987	0.1582	0.1582	-0.0782	-0.0236	Pass
25	5	5499.99957	5499.99957	5500.00087	5499.99957	-0.0782	-0.0782	0.1582	-0.0782	Pass
25	5.5	5499.99987	5499.99987	5499.99987	5499.99957	-0.0236	-0.0236	-0.0236	-0.0782	Pass

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Temp. (ºC)	Voltage (V)	Measured Frequency	5745		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
55	5	5745.01476	5745.01520	5745.01650	5745.01823	2.5692	2.6458	2.8721	3.1732	Pass
50	5	5745.00478	5745.00868	5745.00955	5745.01085	0.8320	1.5109	1.6623	1.8886	Pass
40	5	5744.99653	5744.99783	5744.99870	5745.00043	-0.6040	-0.3777	-0.2263	0.0748	Pass
30	5	5744.99522	5744.99566	5744.99566	5744.99609	-0.8320	-0.7554	-0.7554	-0.6806	Pass
25	5	5744.99783	5744.99740	5744.99696	5744.99696	-0.3777	-0.4526	-0.5292	-0.5292	Pass
10	5	5745.00478	5745.00478	5745.00434	5745.00391	0.8320	0.8320	0.7554	0.6806	Pass
0	5	5745.01172	5745.00825	5745.00695	5745.00651	2.0400	1.4360	1.2097	1.1332	Pass
-10	5	5745.03690	5745.03386	5745.03256	5745.03082	6.4230	5.8938	5.6675	5.3647	Pass
-20	5	5745.03821	5745.03821	5745.03821	5745.03821	6.6510	6.6510	6.6510	6.6510	Pass
Temp. (ºC)	Voltage (V)	Measured Frequency	5745		(MHz)	Limit				Result
		Time (min)				20ppm				
Operating Frequency:		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
25	4.5	5744.99653	5744.99653	5744.99609	5744.99609	-0.6040	-0.6040	-0.6806	-0.6806	Pass
25	5	5744.99609	5744.99609	5744.99609	5744.99566	-0.6806	-0.6806	-0.6806	-0.7554	Pass
25	5.5	5744.99522	5744.99522	5744.99522	5744.99609	-0.8320	-0.8320	-0.8320	-0.6806	Pass

--End of Test Report--

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