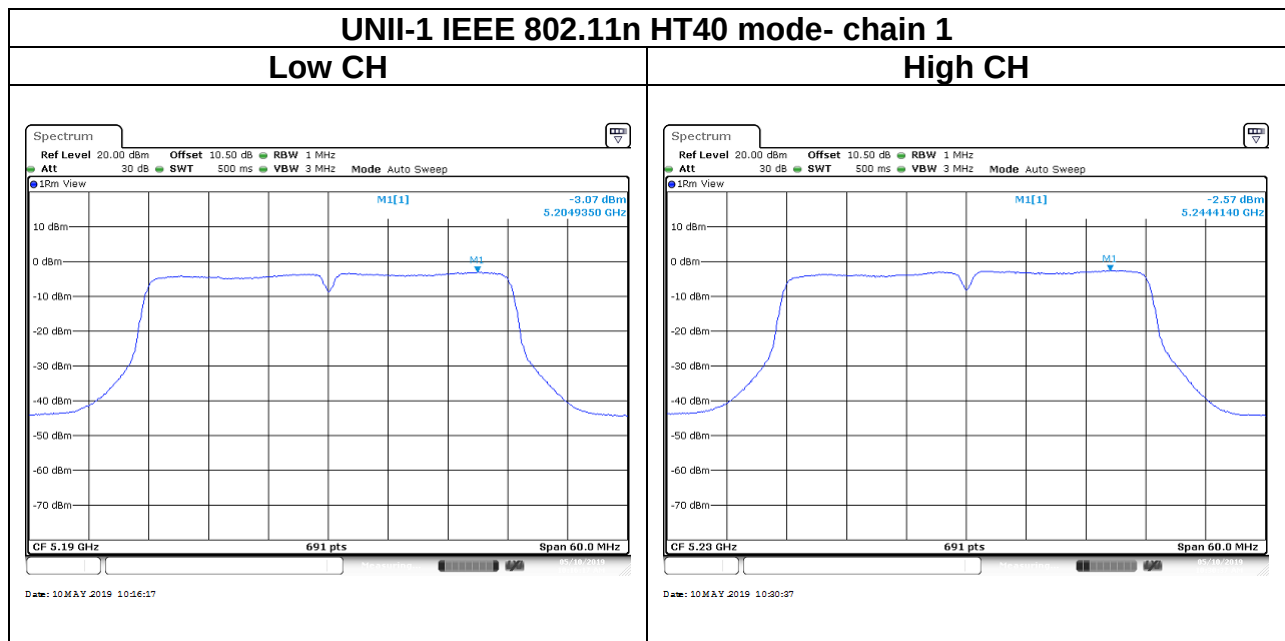
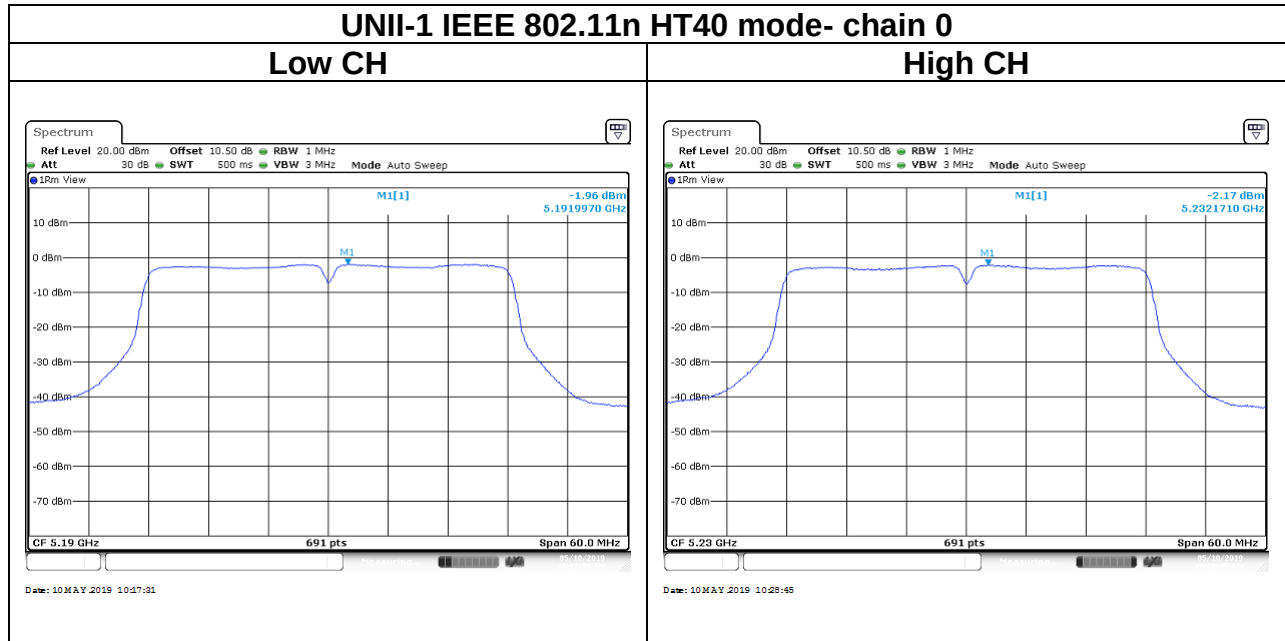
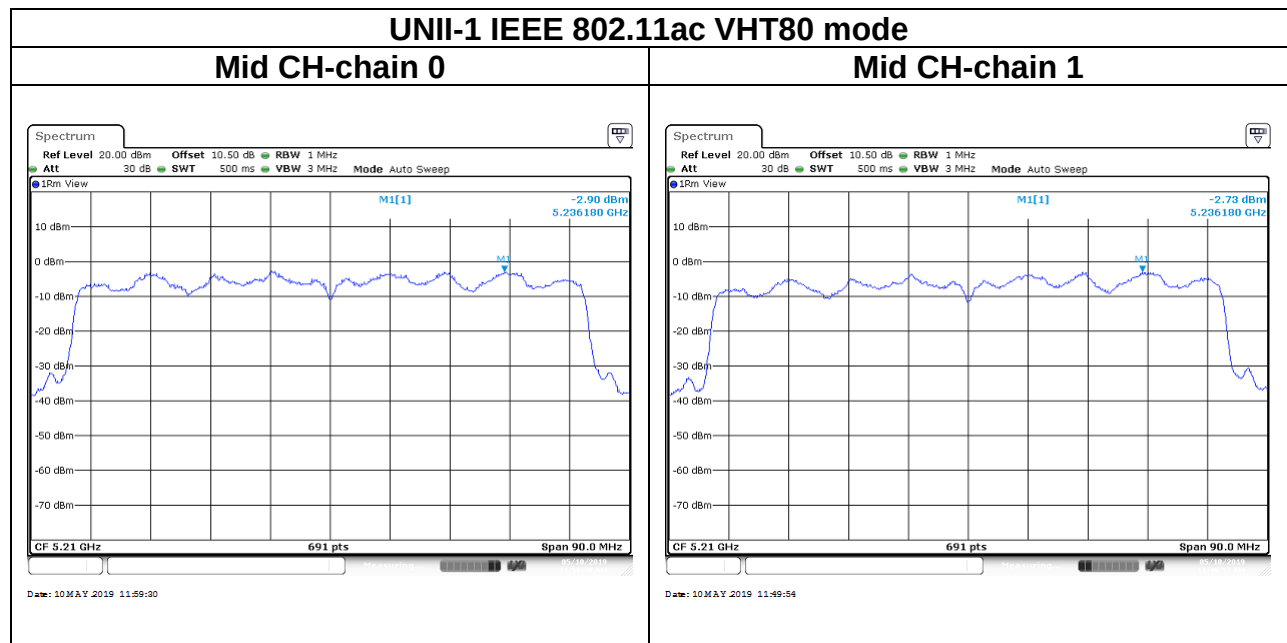






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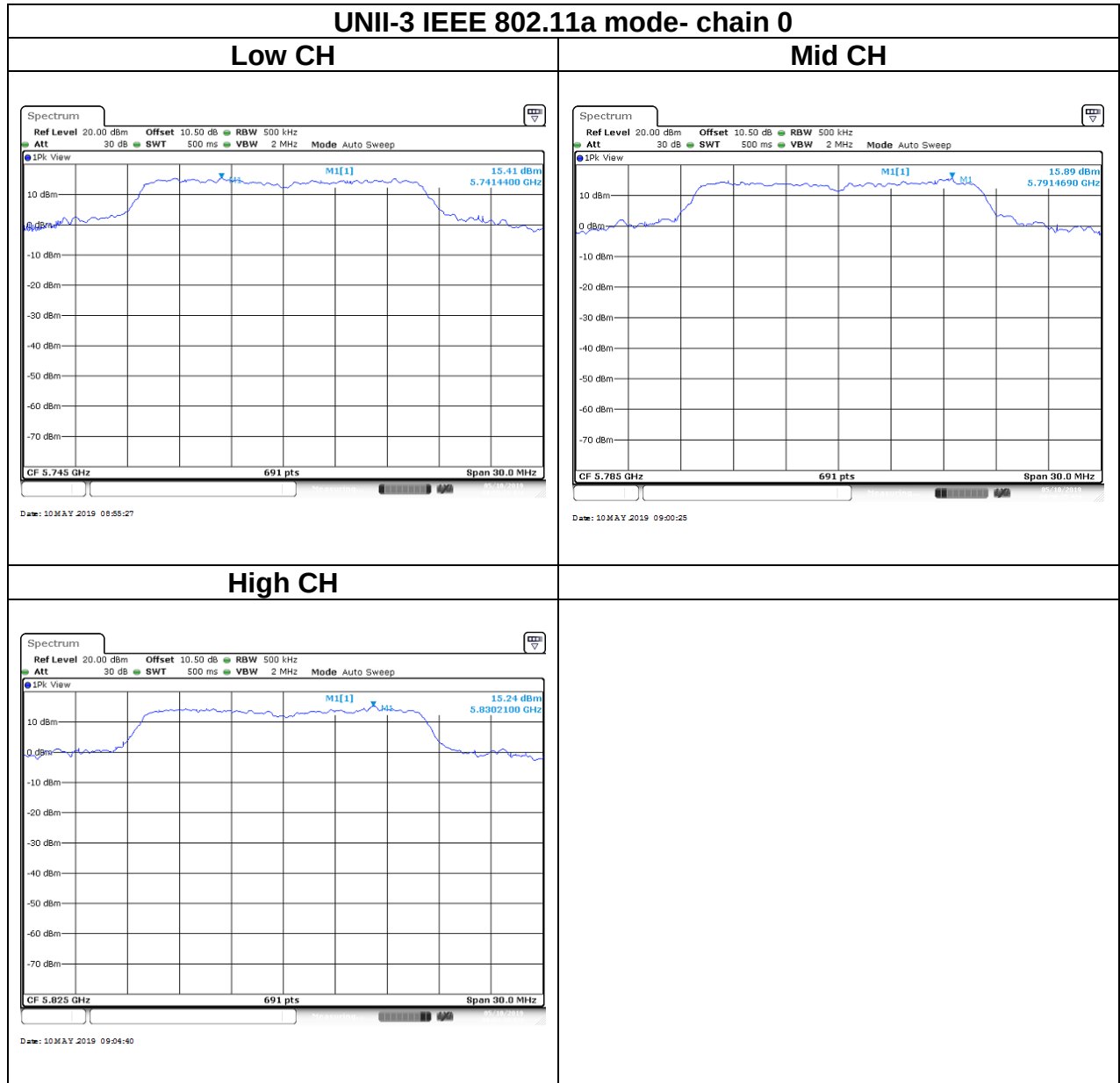




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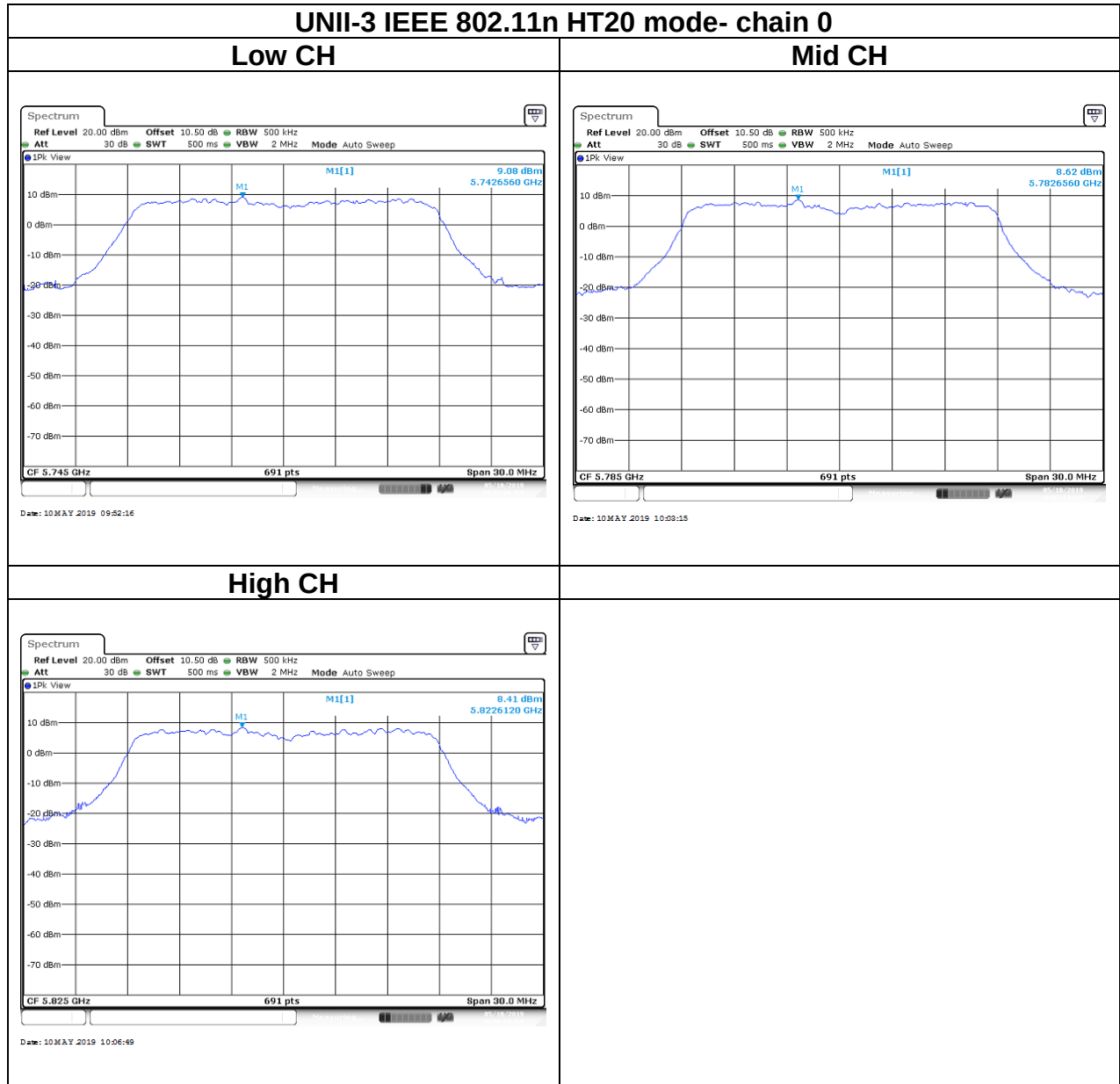
Test Data





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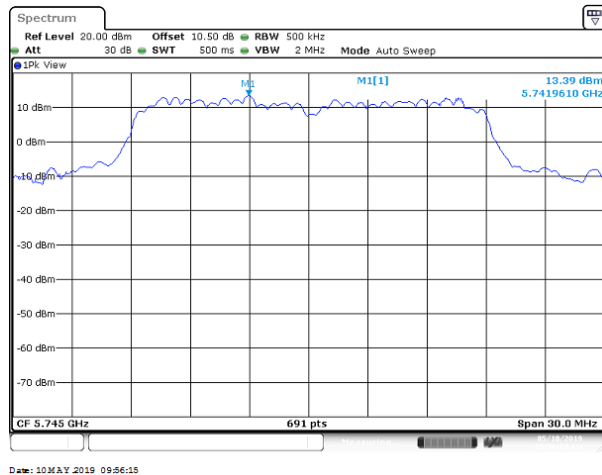
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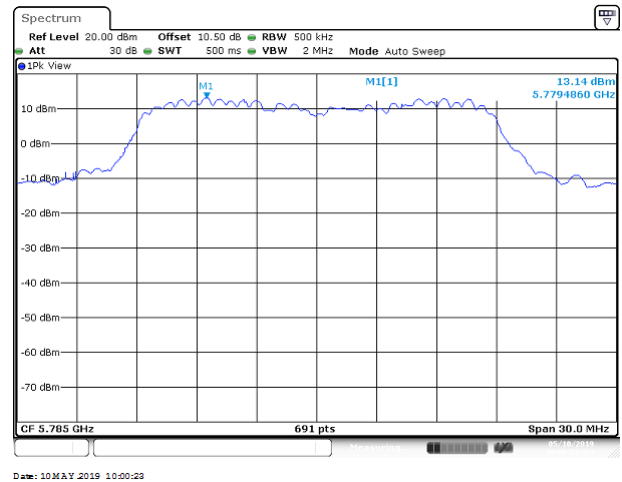
Rev.: 01

UNII-3 IEEE 802.11n HT20 mode- chain 1

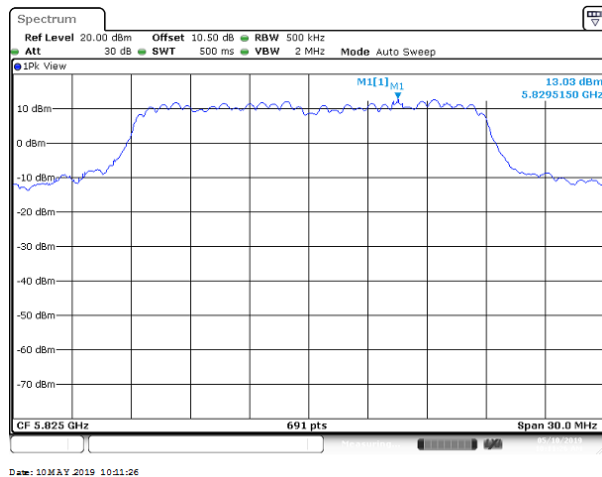
Low CH



Mid CH



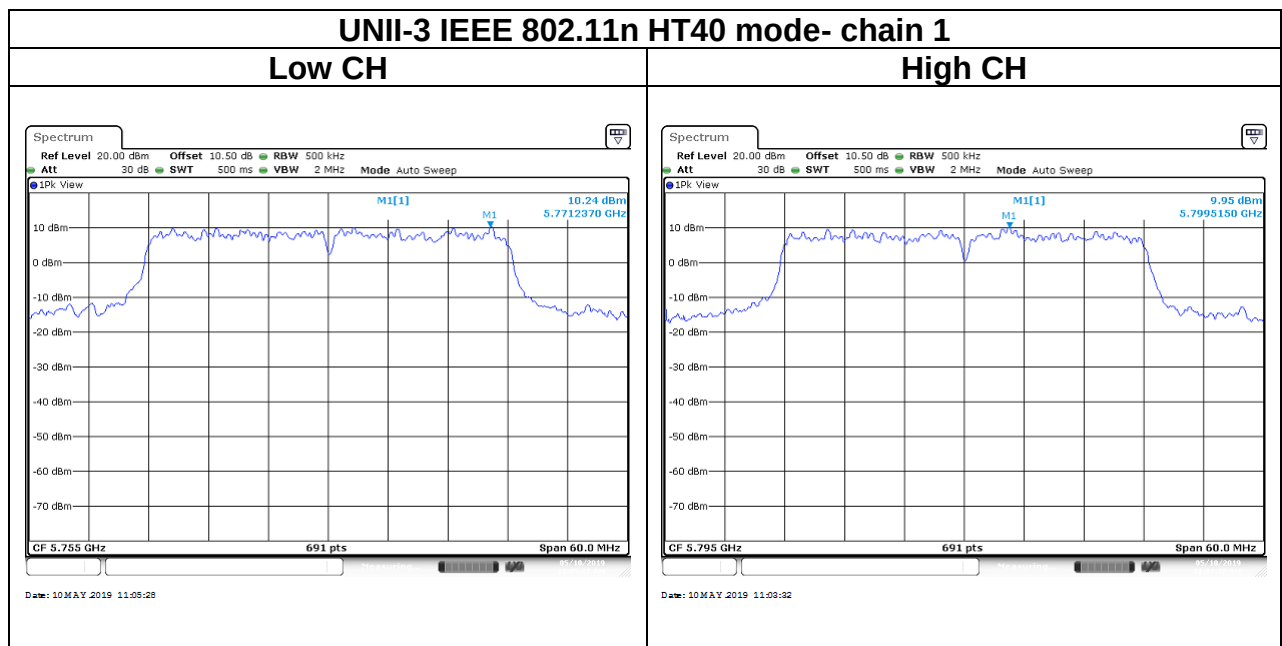
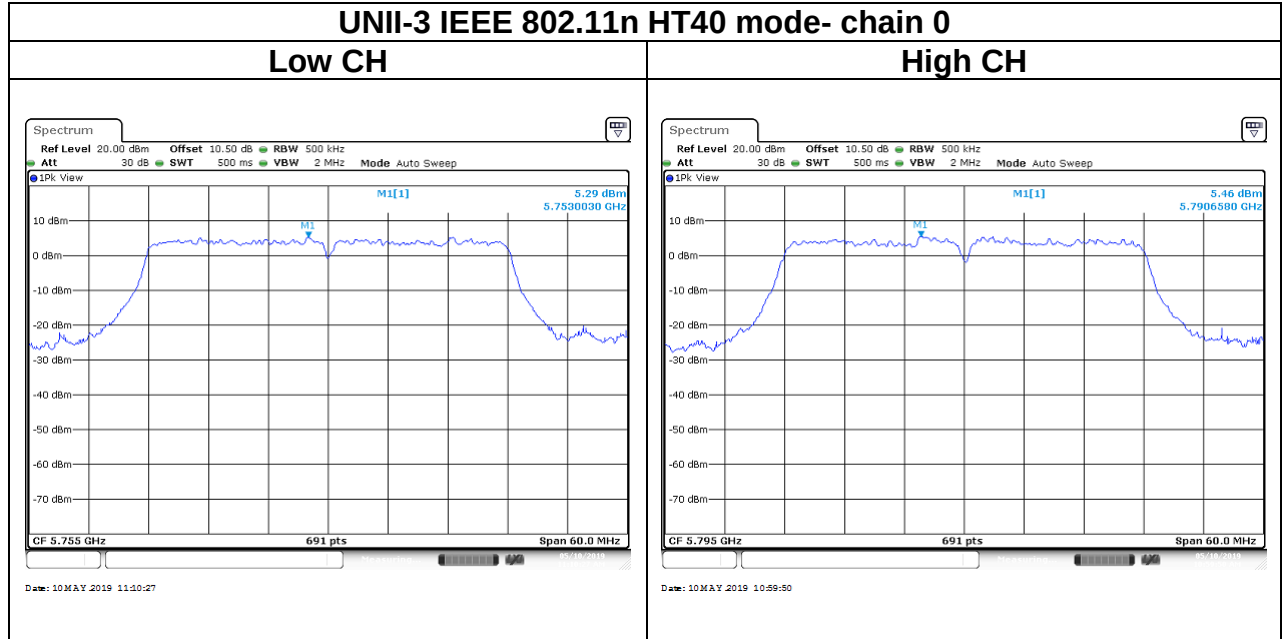
High CH





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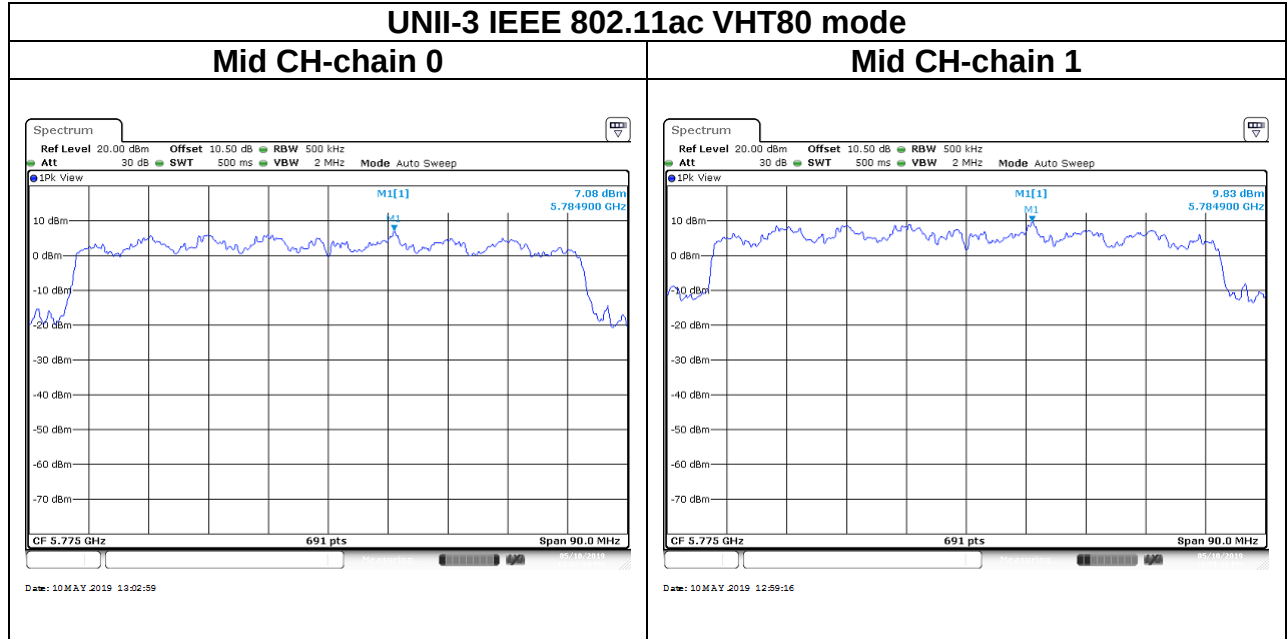
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4.5 RADIATION BANDEDGE AND SPURIOUS EMISSION

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-3:

For the band 5725-5850 MHz, emissions at frequencies from the band edges to 10 MHz above or below the band edges shall not exceed -17 dBm/MHz e.i.r.p.
For emissions at frequencies more than 10 MHz above or below the band edges, the emissions power shall not exceed -27 dBm/MHz

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 30MHz 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)

Remark:

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

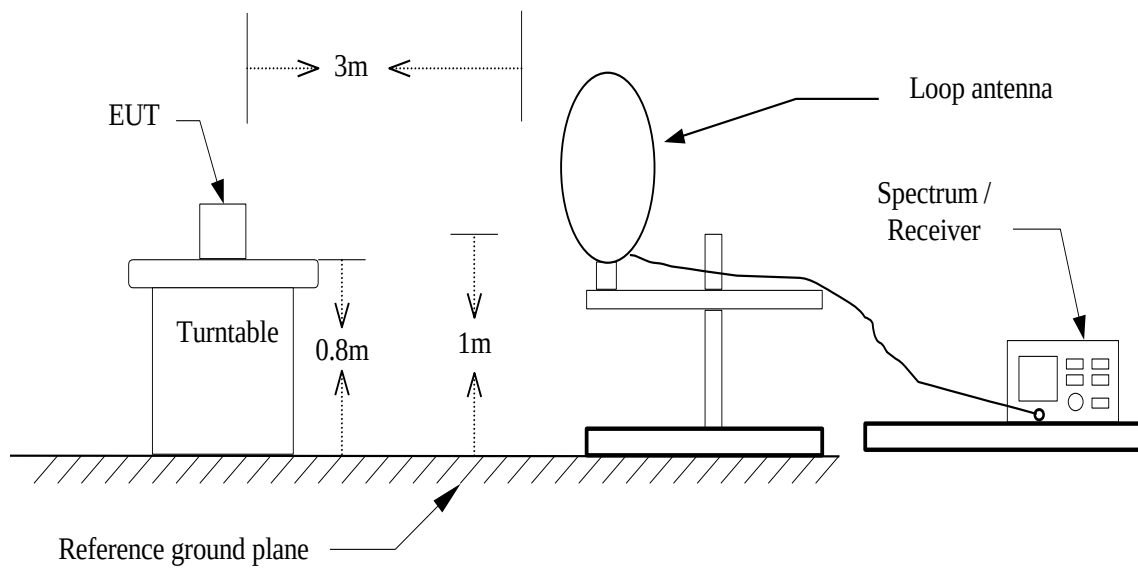
5. The SA setting following :

- (1) Below 1G : RBW = 100kHz, VBW $\geq 3 \times$ 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 $\geq 98\%$, VBW=10Hz.
 - *If Duty Cycle $< 98\%$, VBW=1/T.

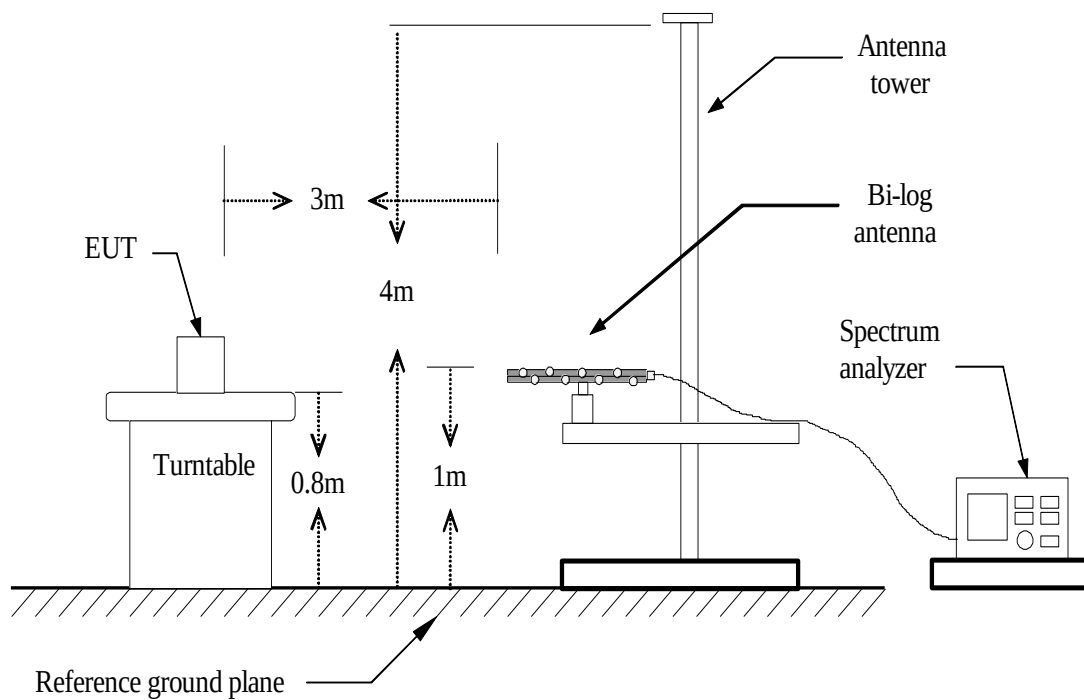
Configuration	Duty Cycle (%)	VBW
802.11a	95.70%	510Hz
802.11n HT20	88.64%	1.1KHz
802.11n HT40	69.67%	2.2KHz
802.11ac VHT80	39.35%	12KHz

4.5.3 Test Setup

9kHz ~ 30MHz



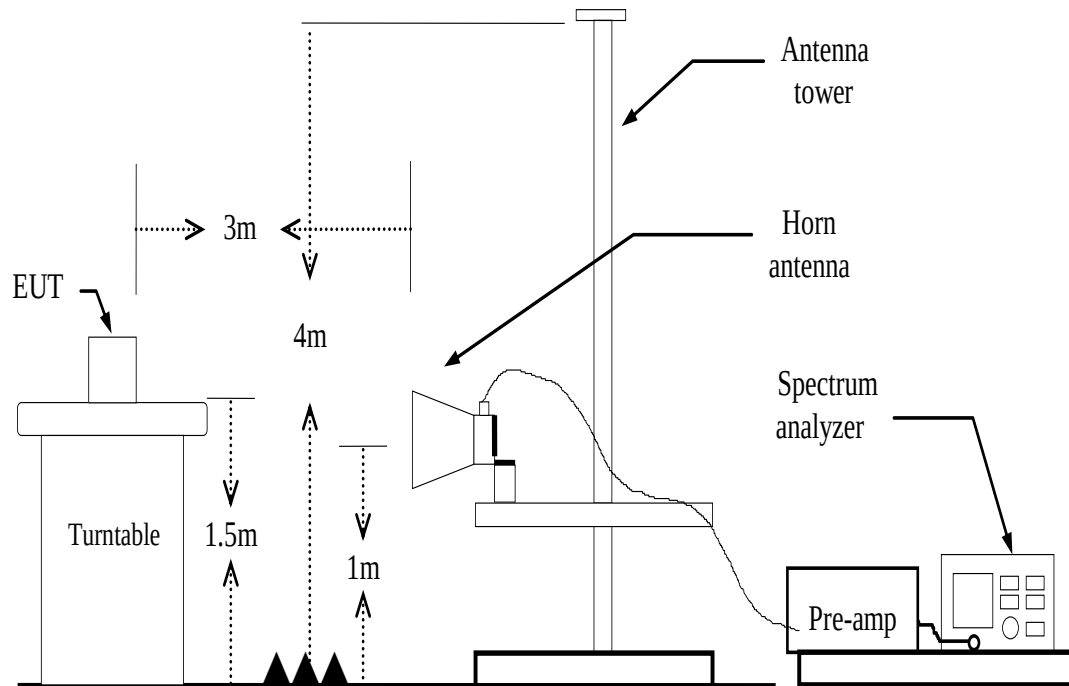
30MHz ~ 1GHz



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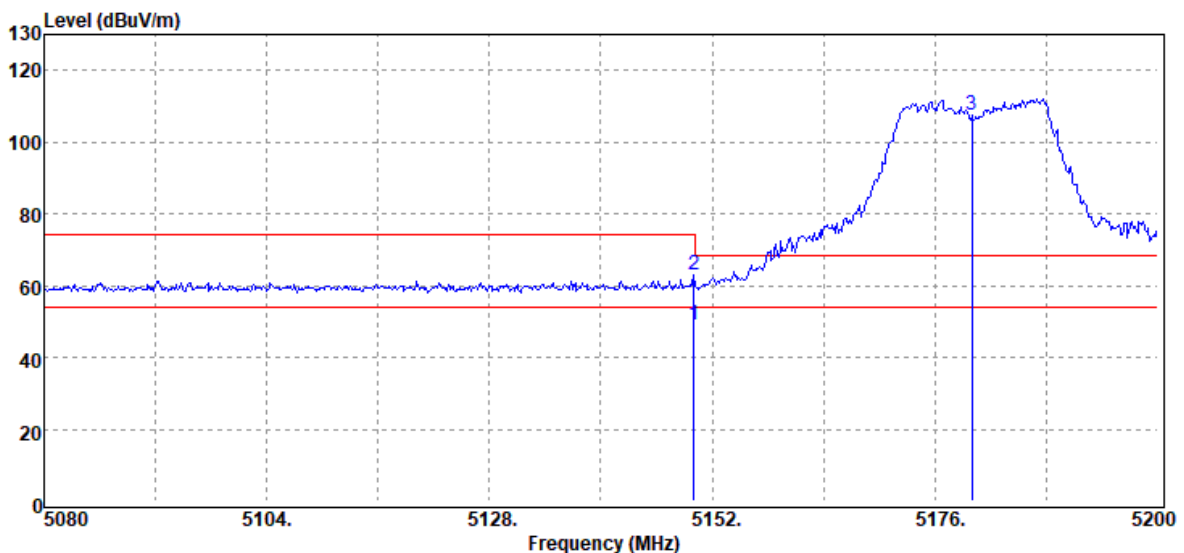
Above 1 GHz

4.5.4 Test Result

Test Data

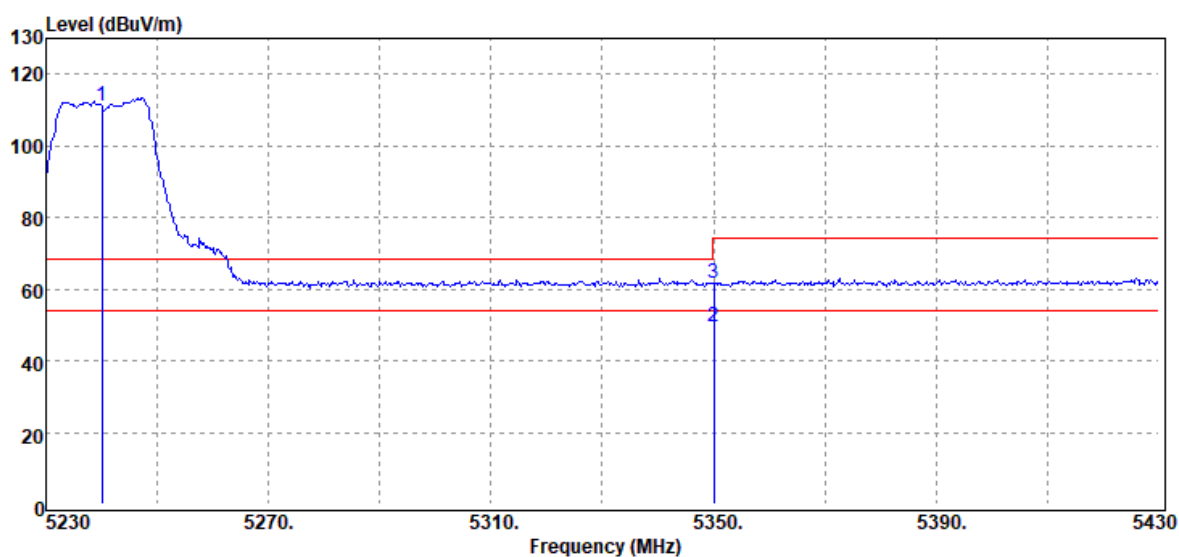
Band Edge Test Data for UNII-1

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



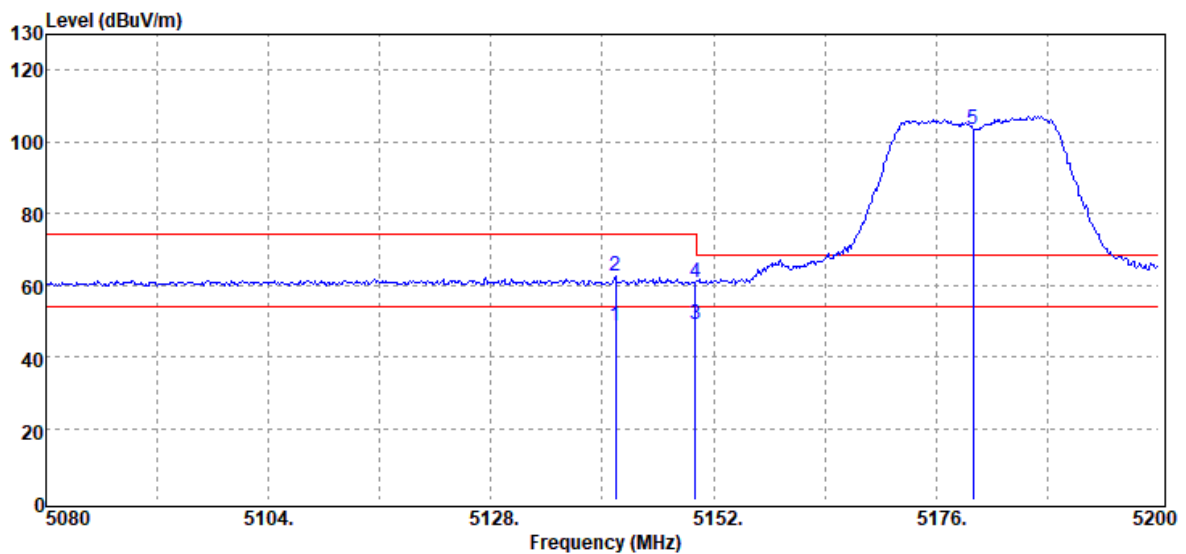
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	44.23	4.92	49.15	54.00	-4.85	Average
5150.00	57.84	4.92	62.76	74.00	-11.24	Peak
5180.00	102.78	4.95	107.73	-	-	Peak

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



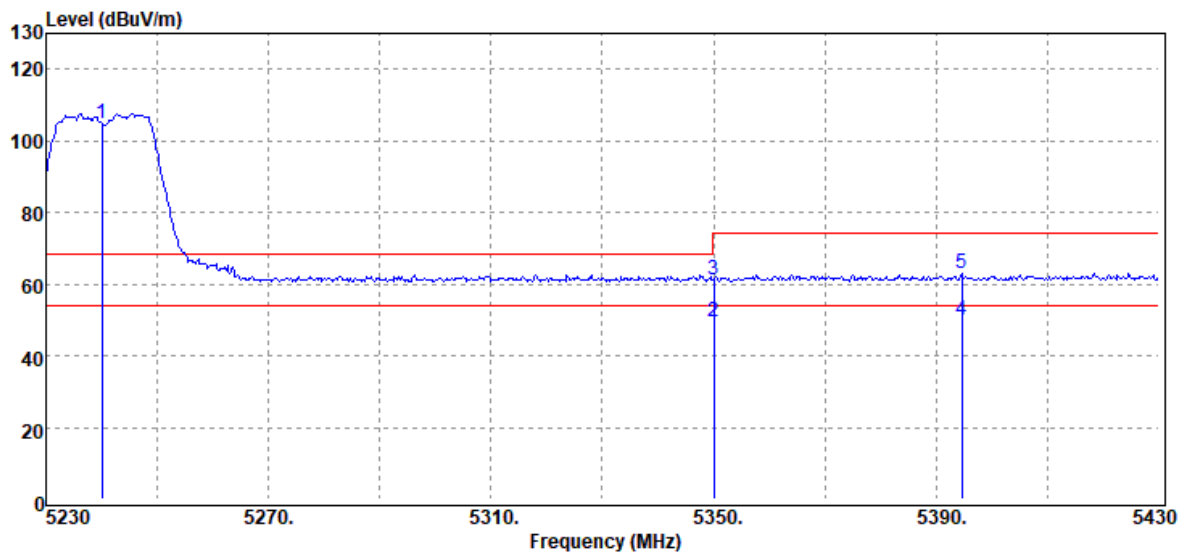
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5240.00	106.30	4.88	111.18	-	-	Peak
5350.00	44.24	5.21	49.45	54.00	-4.55	Average
5350.00	56.26	5.21	61.47	74.00	-12.53	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



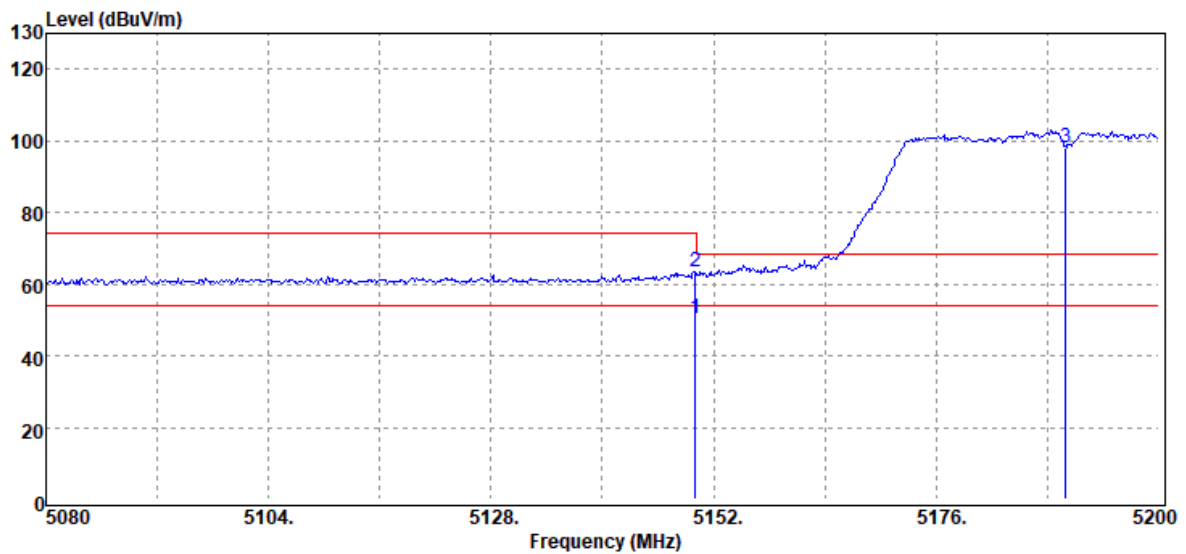
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5141.44	43.75	4.92	48.67	54.00	-5.33	Average
5141.44	57.67	4.92	62.59	74.00	-11.41	Peak
5150.00	44.13	4.92	49.05	54.00	-4.95	Average
5150.00	55.95	4.92	60.87	74.00	-13.13	Peak
5180.00	98.40	4.95	103.35	-	-	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



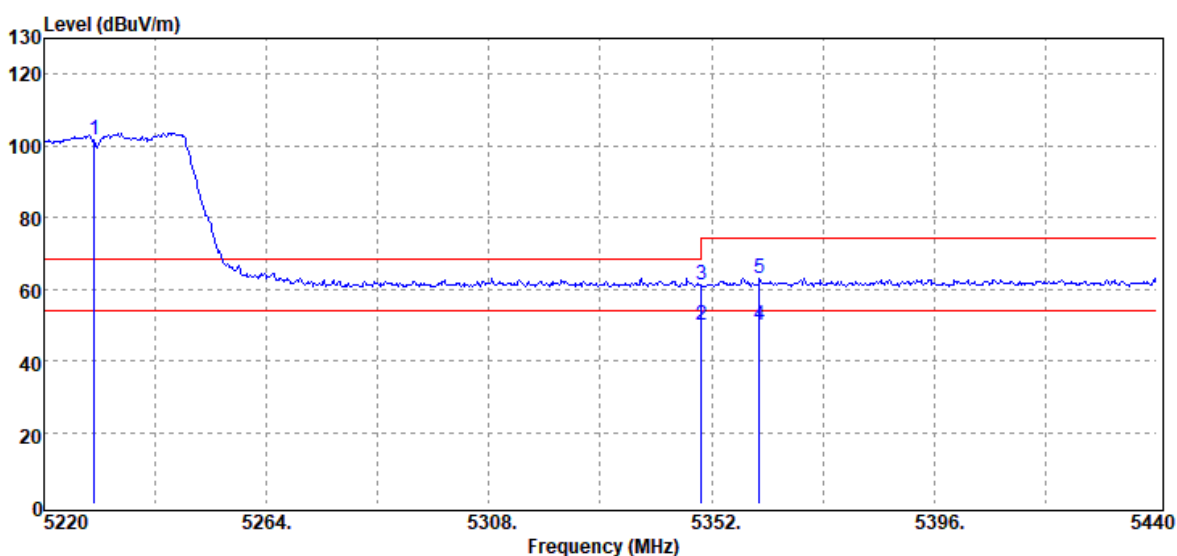
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5240.00	100.02	4.88	104.90	-	-	Peak
5350.00	44.12	5.21	49.33	54.00	-4.67	Average
5350.00	55.94	5.21	61.15	74.00	-12.85	Peak
5394.60	44.58	5.37	49.95	54.00	-4.05	Average
5394.60	57.73	5.37	63.10	74.00	-10.90	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



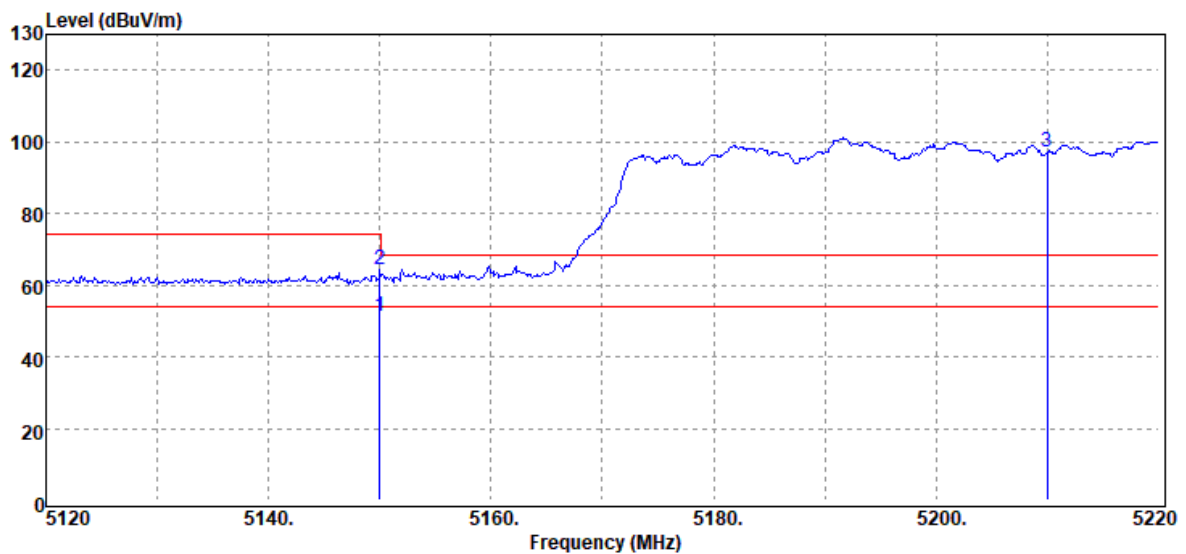
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	45.62	4.92	50.54	54.00	-3.46	Average
5150.00	58.54	4.92	63.46	74.00	-10.54	Peak
5190.00	93.19	4.95	98.14	-	-	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5230.00	96.57	4.90	101.47	-	-	Peak
5350.00	44.51	5.21	49.72	54.00	-4.28	Average
5350.00	55.90	5.21	61.11	74.00	-12.89	Peak
5361.46	44.74	5.27	50.01	54.00	-3.99	Average
5361.46	57.92	5.27	63.19	74.00	-10.81	Peak

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak / Average		

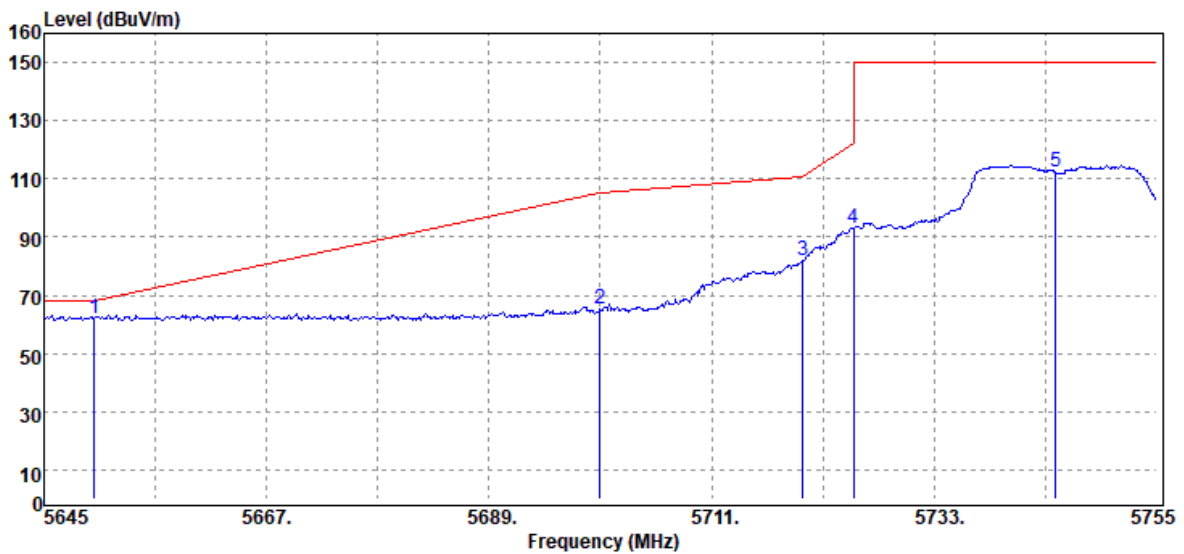


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5150.00	46.26	4.92	51.18	54.00	-2.82	Average
5150.00	59.19	4.92	64.11	74.00	-9.89	Peak
5210.00	92.31	4.94	97.25	-	-	Peak

Test Data

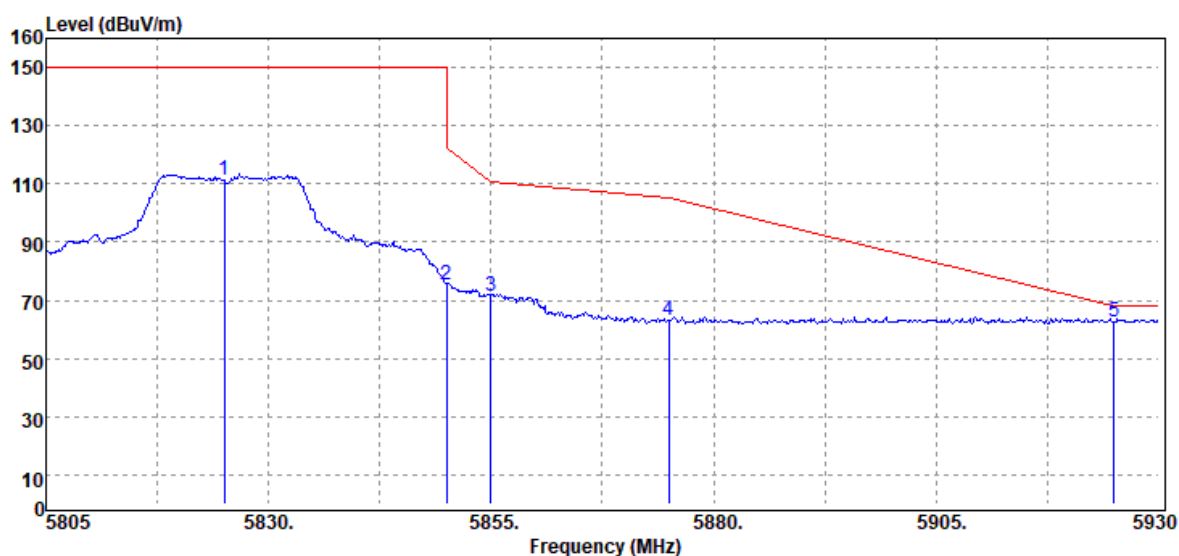
Band Edge Test Data for UNII-3

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



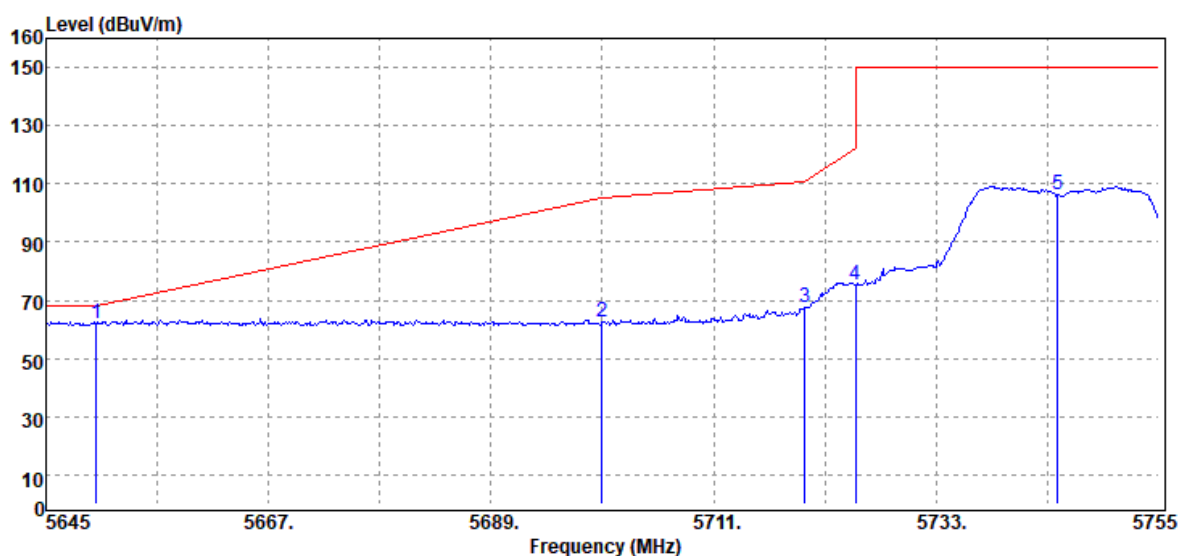
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	55.99	6.04	62.03	68.20	-6.17	Peak
5700.00	58.85	6.32	65.17	105.20	-40.03	Peak
5720.00	75.47	6.33	81.80	110.80	-29.00	Peak
5725.00	86.62	6.34	92.96	122.20	-29.24	Peak
5745.00	105.75	6.37	112.12	150.00	-37.88	Peak

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



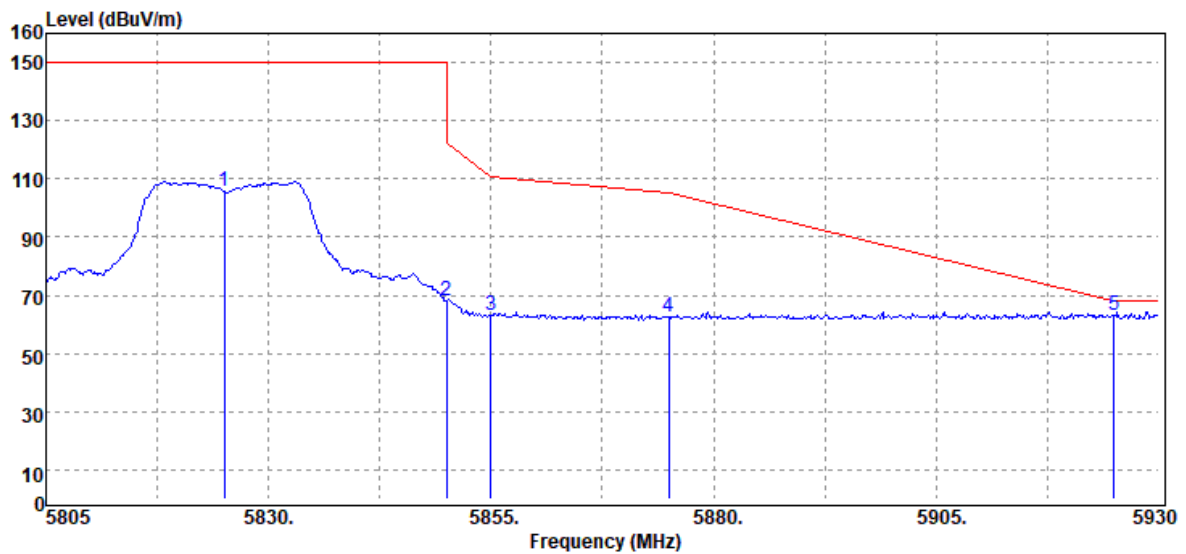
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5825.00	104.83	6.32	111.15	150.00	-38.85	Peak
5850.00	69.13	6.39	75.52	122.20	-46.68	Peak
5855.00	65.25	6.38	71.63	110.80	-39.17	Peak
5875.00	56.87	6.37	63.24	105.20	-41.96	Peak
5925.00	56.21	6.42	62.63	68.20	-5.57	Peak

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



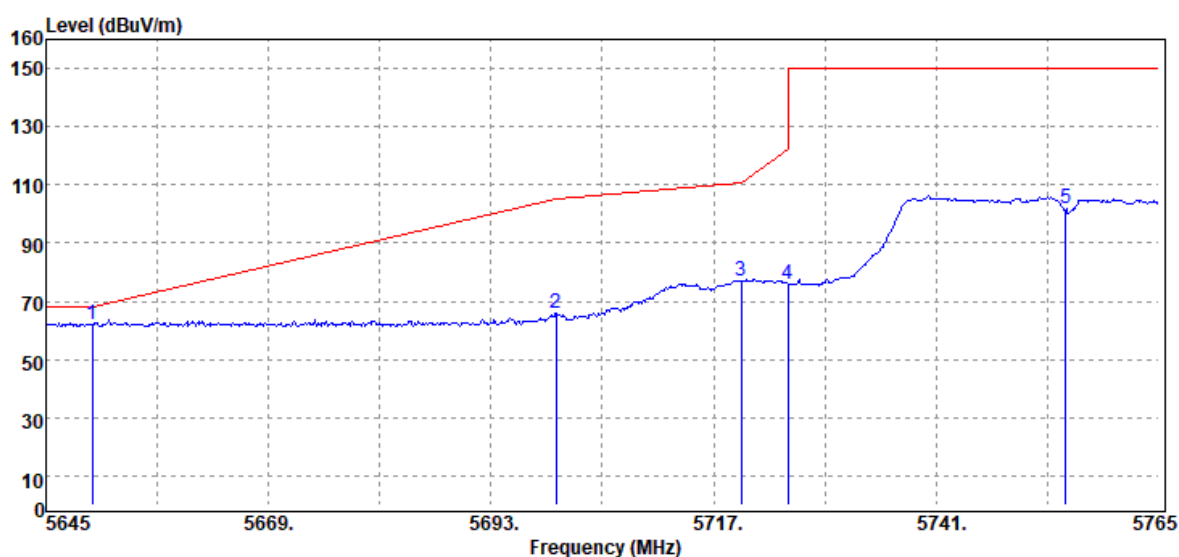
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	55.76	6.04	61.80	68.20	-6.40	Peak
5700.00	56.22	6.32	62.54	105.20	-42.66	Peak
5720.00	61.17	6.33	67.50	110.80	-43.30	Peak
5725.00	68.86	6.34	75.20	122.20	-47.00	Peak
5745.00	99.67	6.37	106.04	150.00	-43.96	Peak

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



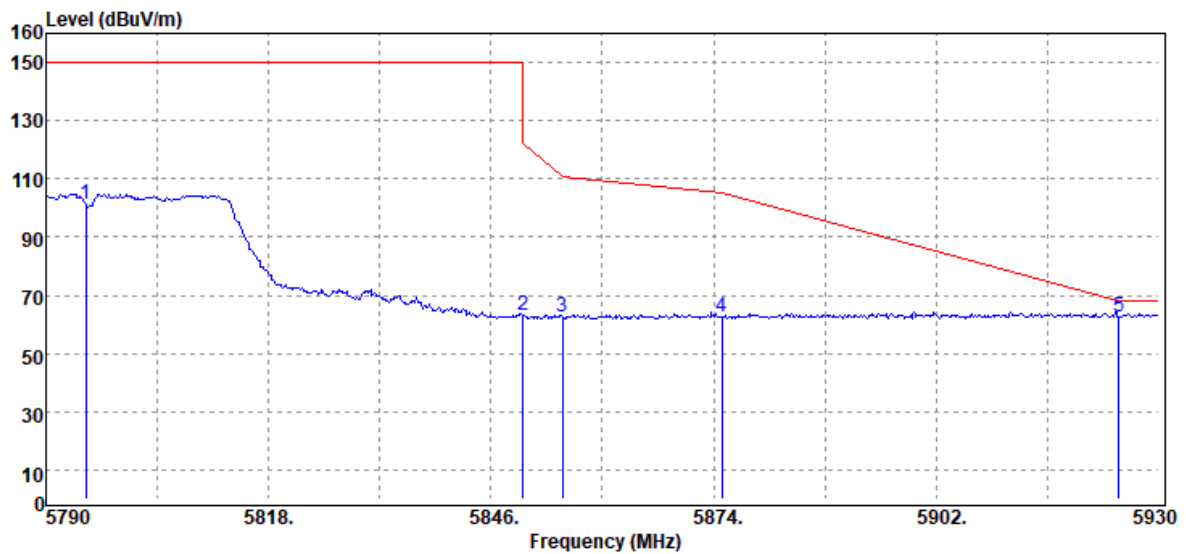
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5825.00	99.22	6.32	105.54	150.00	-44.46	Peak
5850.00	61.59	6.39	67.98	122.20	-54.22	Peak
5855.00	56.51	6.38	62.89	110.80	-47.91	Peak
5875.00	56.34	6.37	62.71	105.20	-42.49	Peak
5925.00	56.74	6.42	63.16	68.20	-5.04	Peak

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



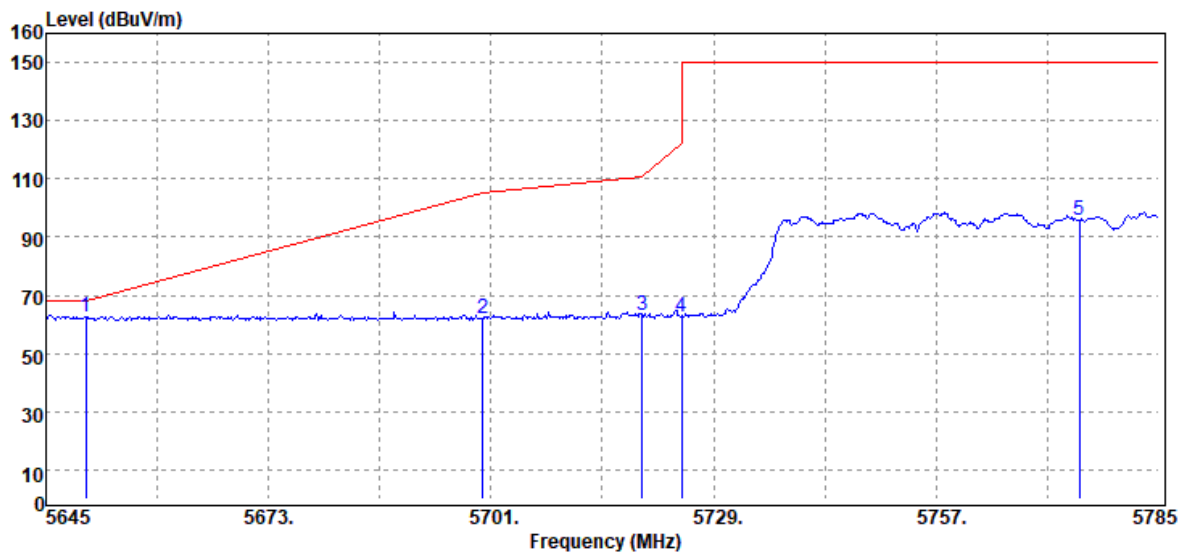
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	56.18	6.04	62.22	68.20	-5.98	Peak
5700.00	59.41	6.32	65.73	105.20	-39.47	Peak
5720.00	70.39	6.33	76.72	110.80	-34.08	Peak
5725.00	69.55	6.34	75.89	122.20	-46.31	Peak
5755.00	95.33	6.37	101.70	150.00	-48.30	Peak

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5795.00	94.95	6.28	101.23	150.00	-48.77	Peak
5850.00	56.73	6.39	63.12	122.20	-59.08	Peak
5855.00	56.17	6.38	62.55	110.80	-48.25	Peak
5875.00	56.22	6.37	62.59	105.20	-42.61	Peak
5925.00	56.27	6.42	62.69	68.20	-5.51	Peak

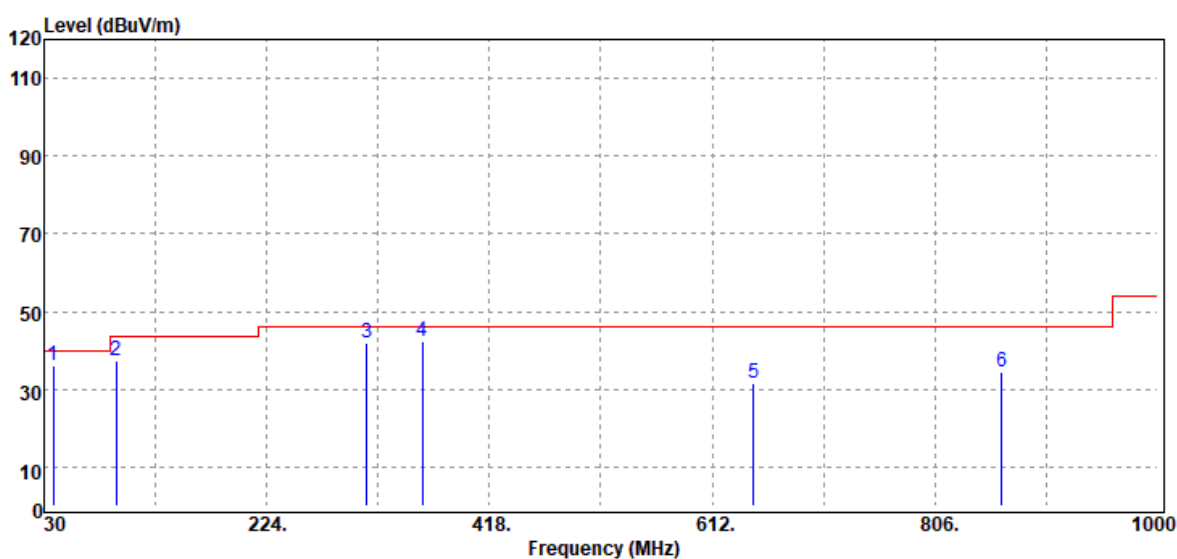
Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Band Edge	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5650.00	56.51	6.04	62.55	68.20	-5.65	Peak
5700.00	55.80	6.32	62.12	105.20	-43.08	Peak
5720.00	56.90	6.33	63.23	110.80	-47.57	Peak
5725.00	56.48	6.34	62.82	122.20	-59.38	Peak
5775.00	89.68	6.33	96.01	150.00	-53.99	Peak

Below 1G Test Data

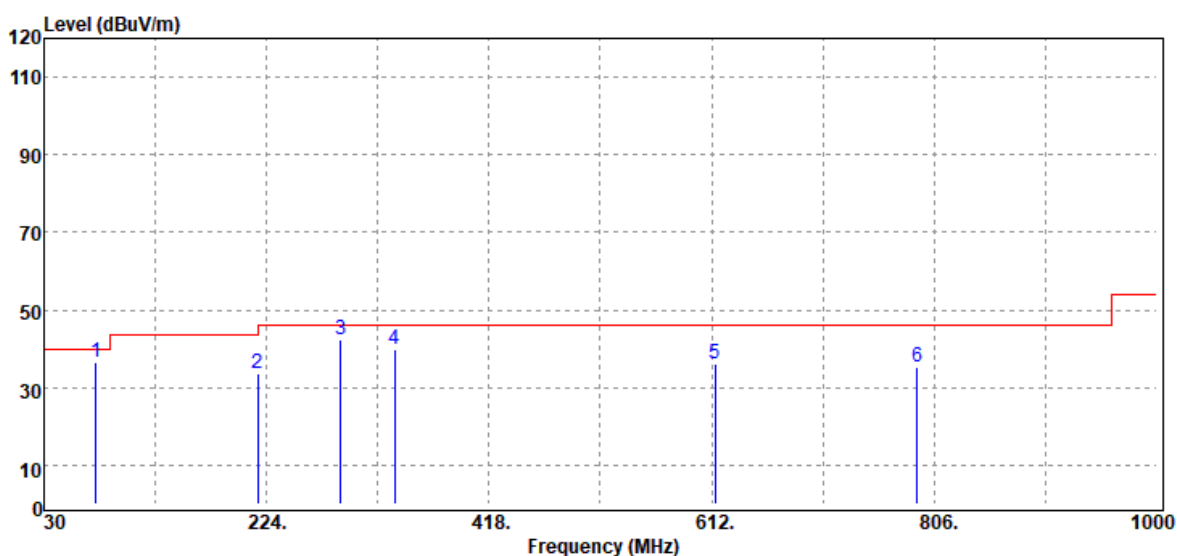
Test Mode	Mode 1	Temp/Hum	21(°C)/ 52%RH
Test Item	30MHz-1GHz	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
37.76	43.96	-7.85	36.11	40.00	-3.89	Peak
93.05	52.00	-14.62	37.38	43.50	-6.12	Peak
311.30	49.62	-7.86	41.76	46.00	-4.24	Peak
359.80	49.11	-6.59	42.52	46.00	-3.48	Peak
647.89	31.48	-0.06	31.42	46.00	-14.58	Peak
864.20	31.60	2.96	34.56	46.00	-11.44	Peak

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

Test Mode	Mode 1	Temp/Hum	21(°C)/ 52%RH
Test Item	30MHz-1GHz	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

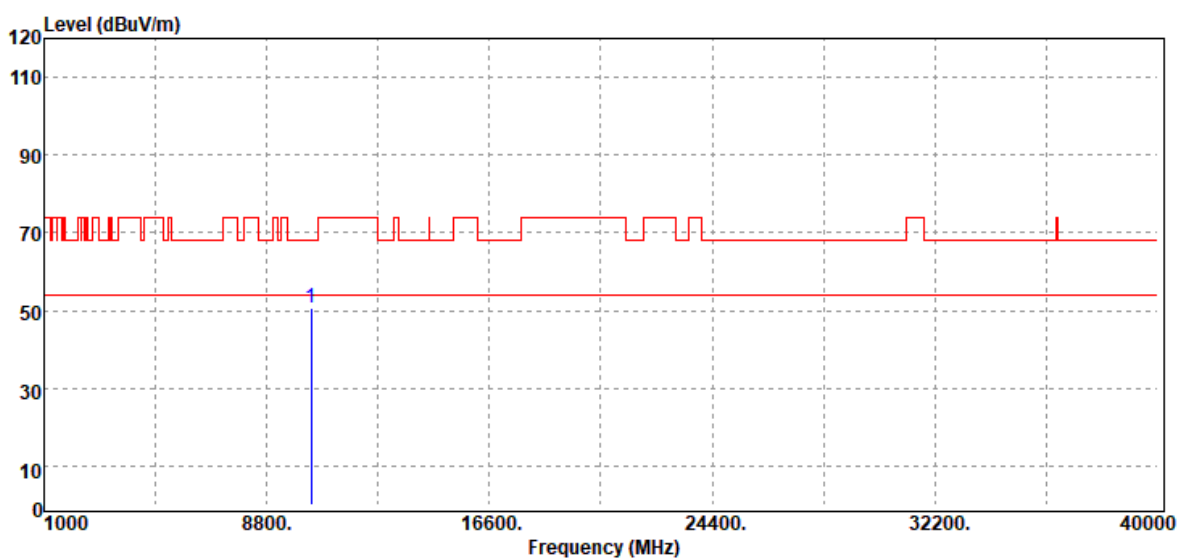


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
75.59	51.22	-14.79	36.43	40.00	-3.57	Peak
216.24	45.02	-11.45	33.57	46.00	-12.43	Peak
288.99	50.57	-8.36	42.21	46.00	-3.79	Peak
335.55	46.95	-7.18	39.77	46.00	-6.23	Peak
614.91	37.37	-1.18	36.19	46.00	-9.81	Peak
791.45	34.31	1.01	35.32	46.00	-10.68	Peak

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

Above 1G Test Data for UNII-1

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

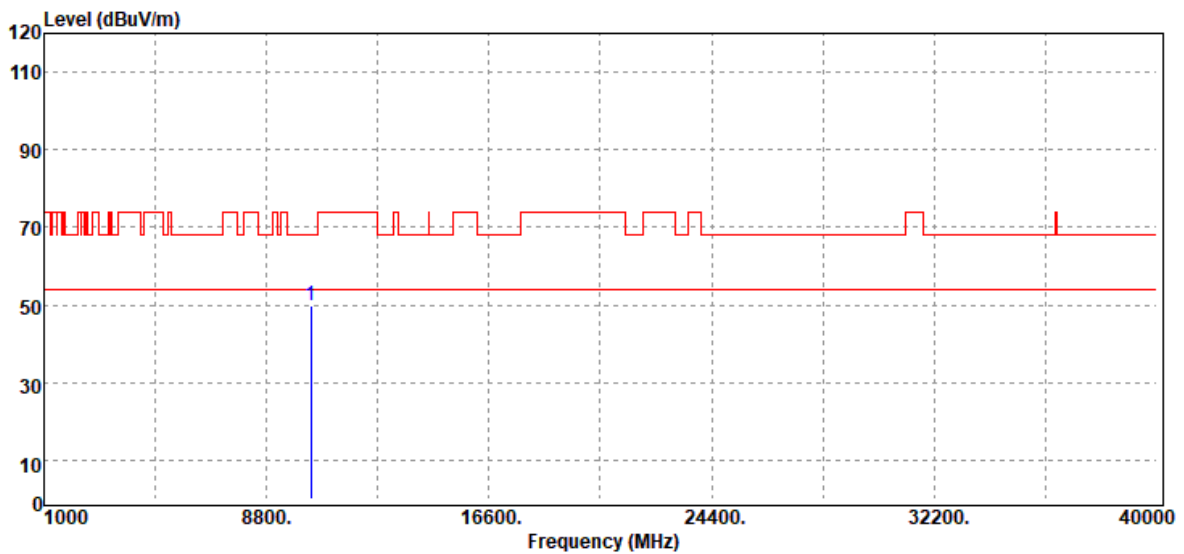


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	36.66	14.12	50.78	68.20	-17.42	Peak
N/A						

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

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	35.62	14.12	49.74	68.20	-18.46	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

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

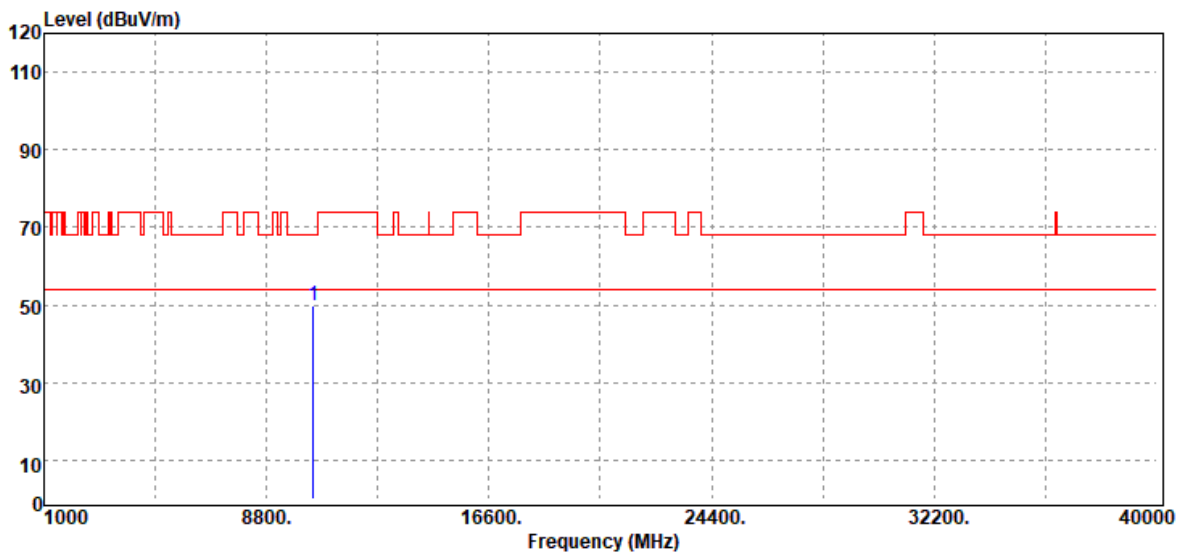


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	35.00	15.21	50.21	68.20	-17.99	Peak
N/A						

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

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

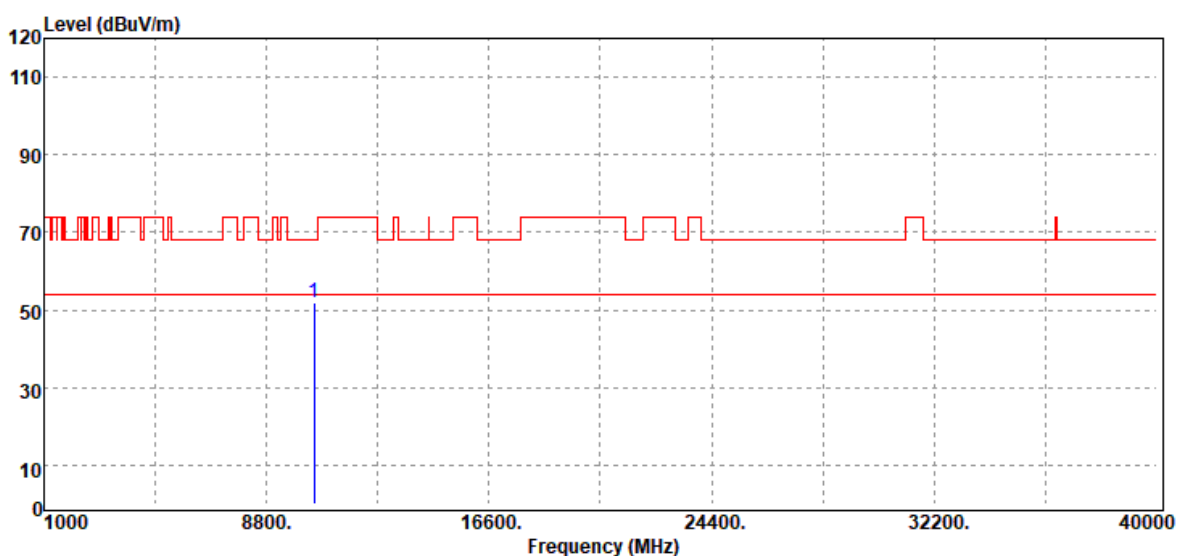


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	34.76	15.21	49.97	68.20	-18.23	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

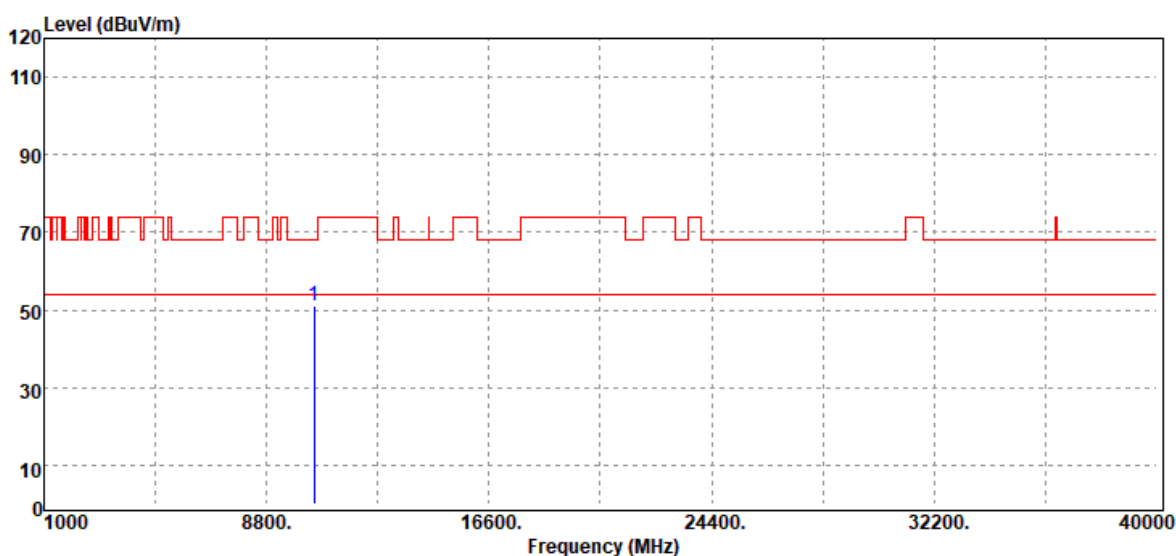


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	35.70	16.09	51.79	68.20	-16.41	Peak
N/A						

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

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

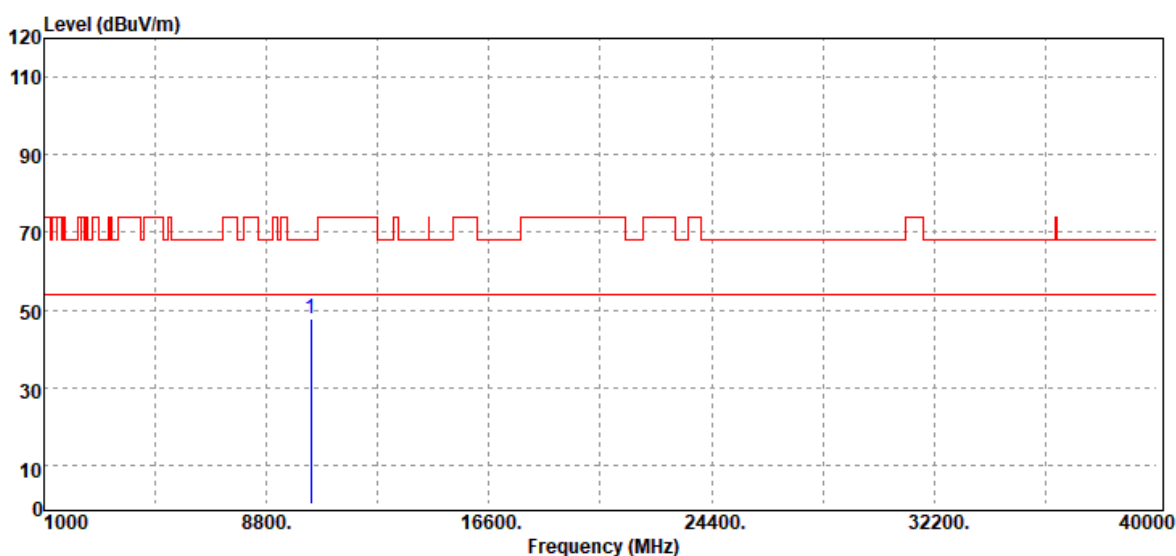


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	35.04	16.09	51.13	68.20	-17.07	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

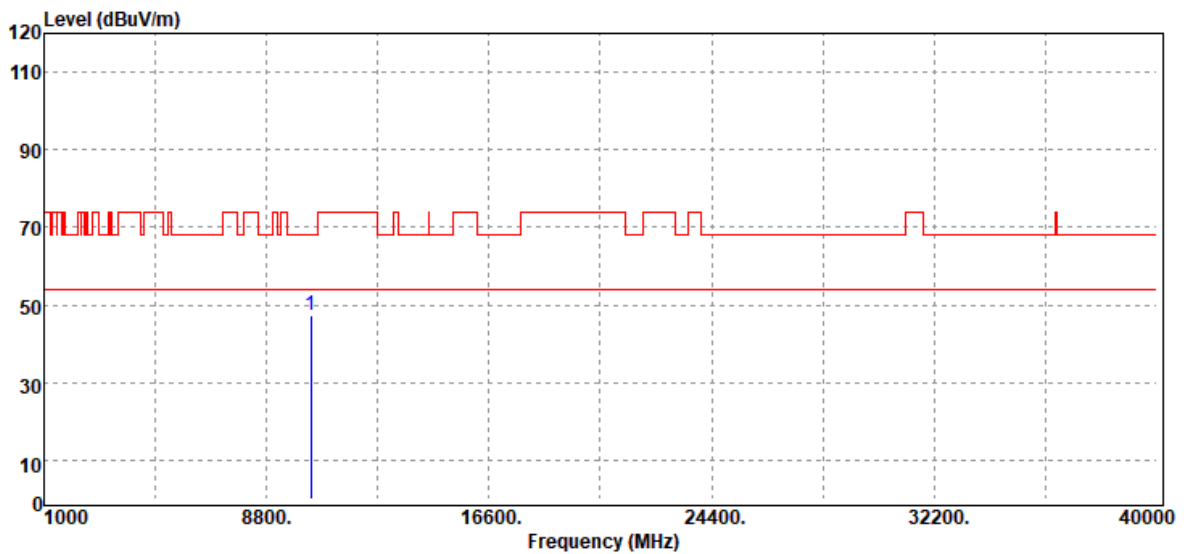


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	33.55	14.12	47.67	68.20	-20.53	Peak
N/A						

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

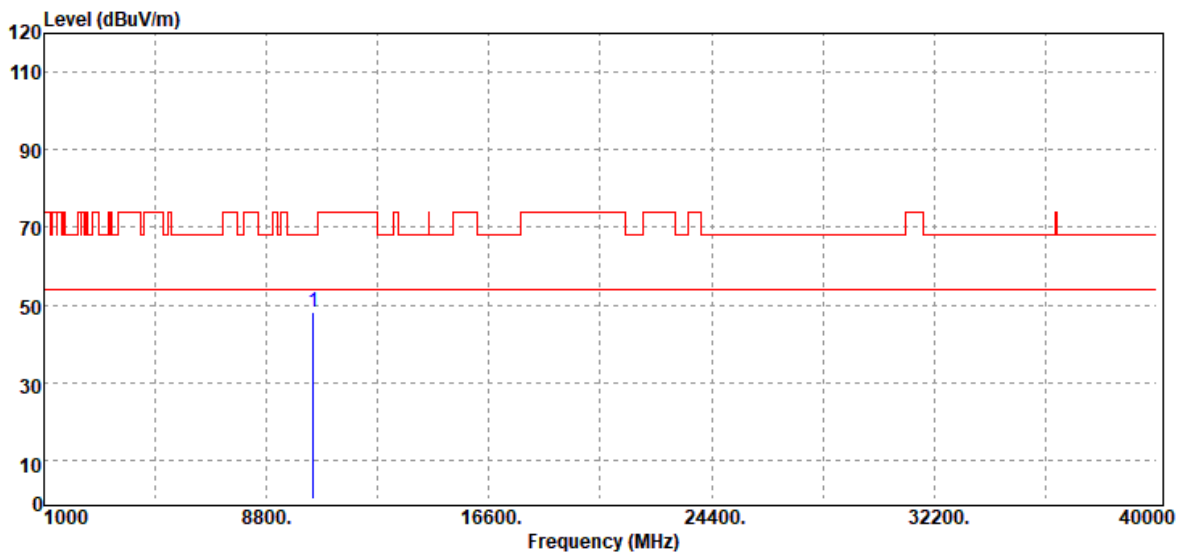


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10360.00	33.22	14.12	47.34	68.20	-20.86	Peak
N/A						

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	33.03	15.21	48.24	68.20	-19.96	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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

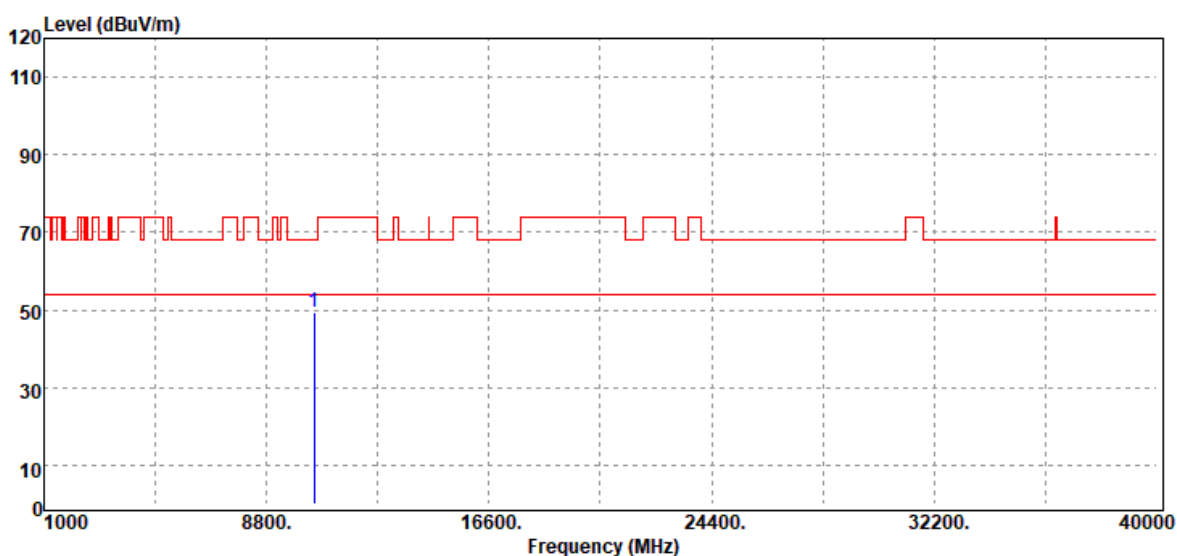


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10440.00	33.42	15.21	48.63	68.20	-19.57	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

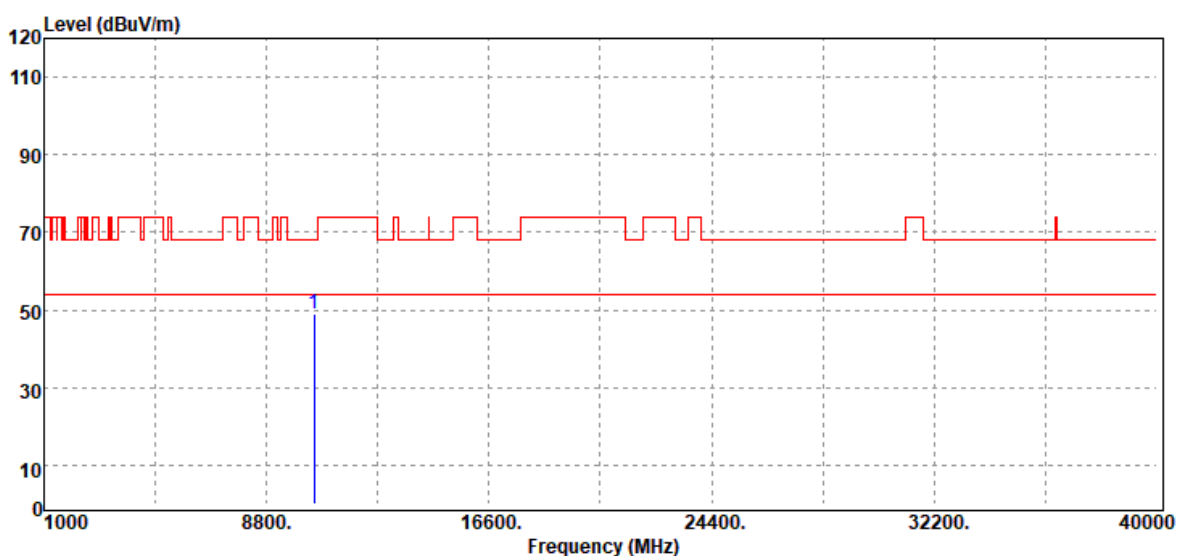


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	33.23	16.09	49.32	68.20	-18.88	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

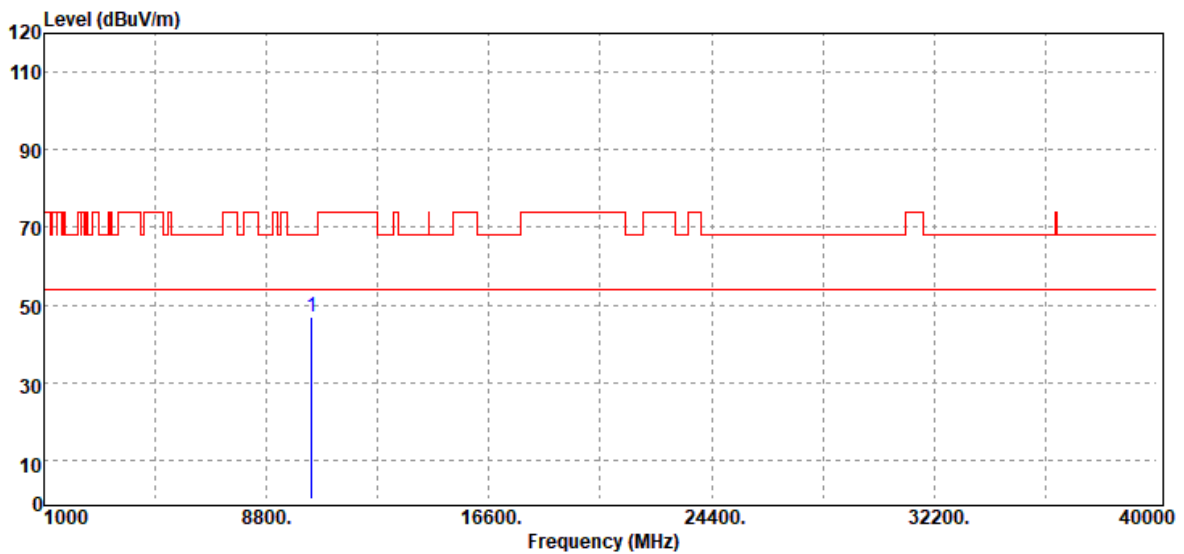


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10480.00	32.94	16.09	49.03	68.20	-19.17	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

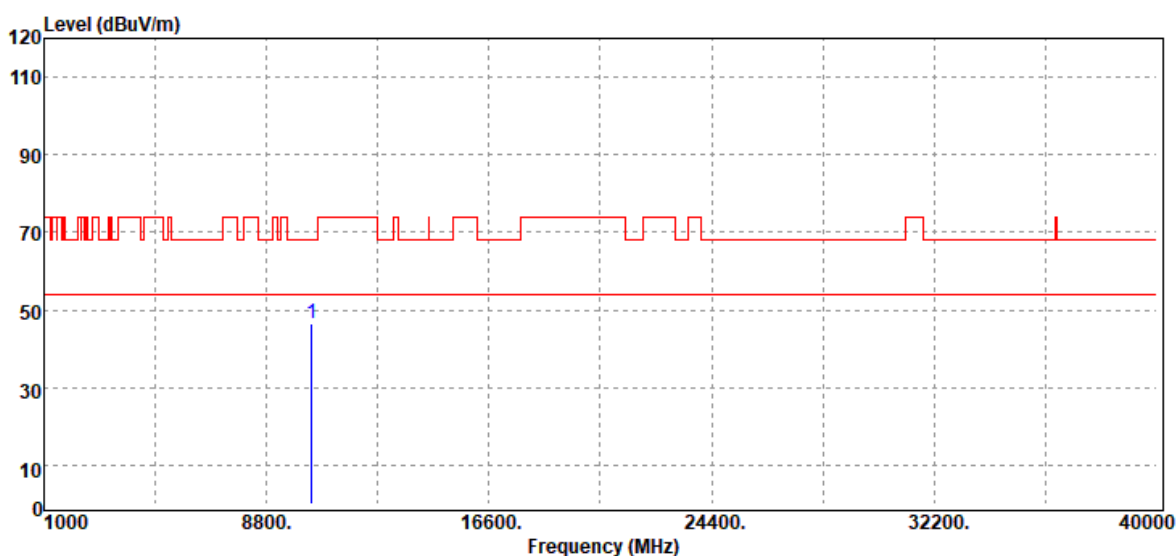


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10380.00	32.84	14.23	47.07	68.20	-21.13	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

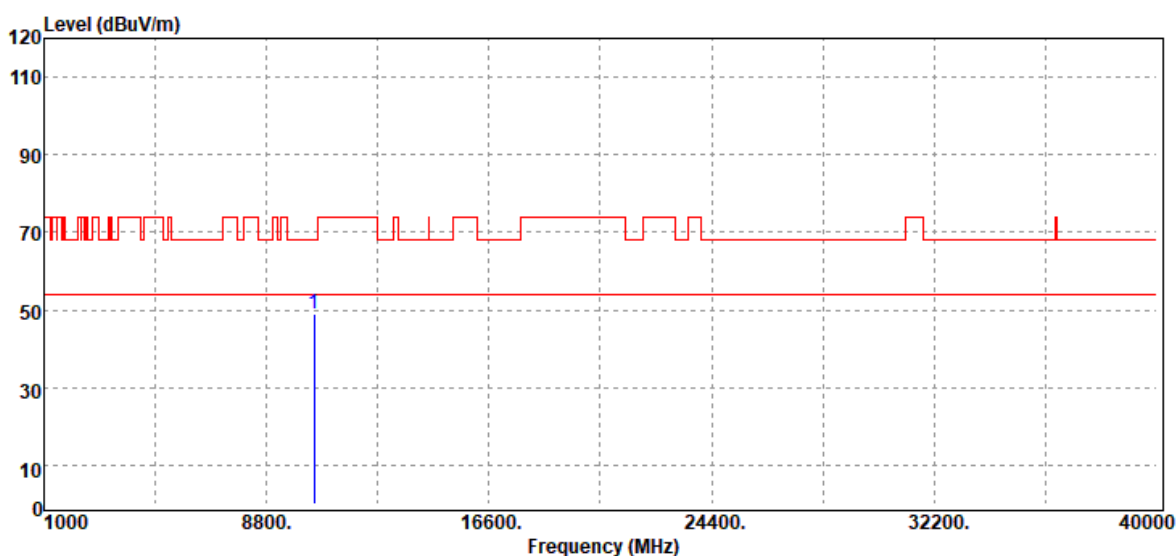


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10380.00	32.09	14.23	46.32	68.20	-21.88	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

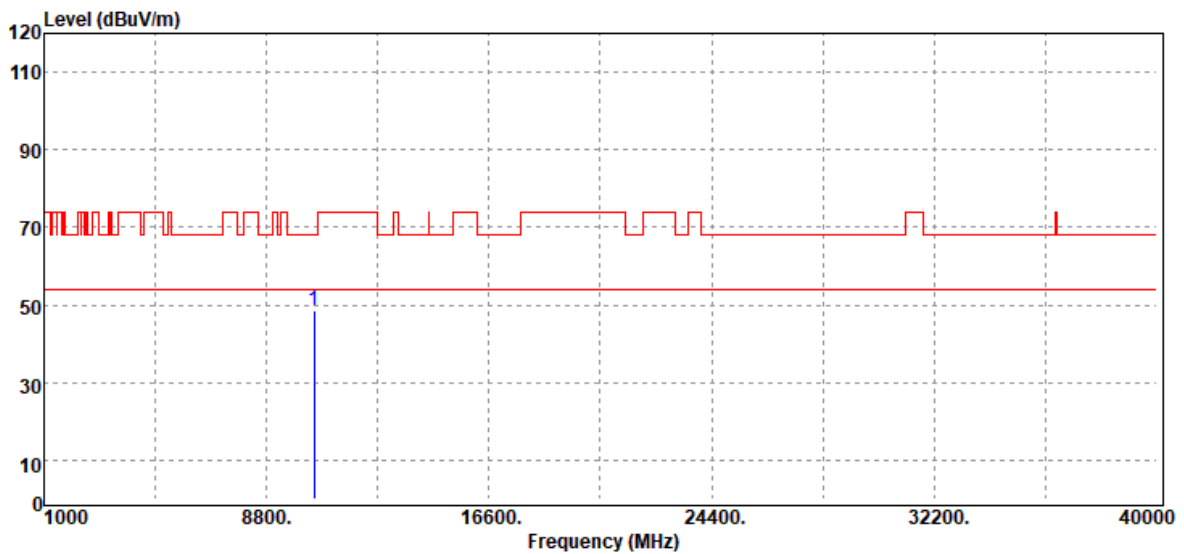


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10460.00	33.51	15.65	49.16	68.20	-19.04	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

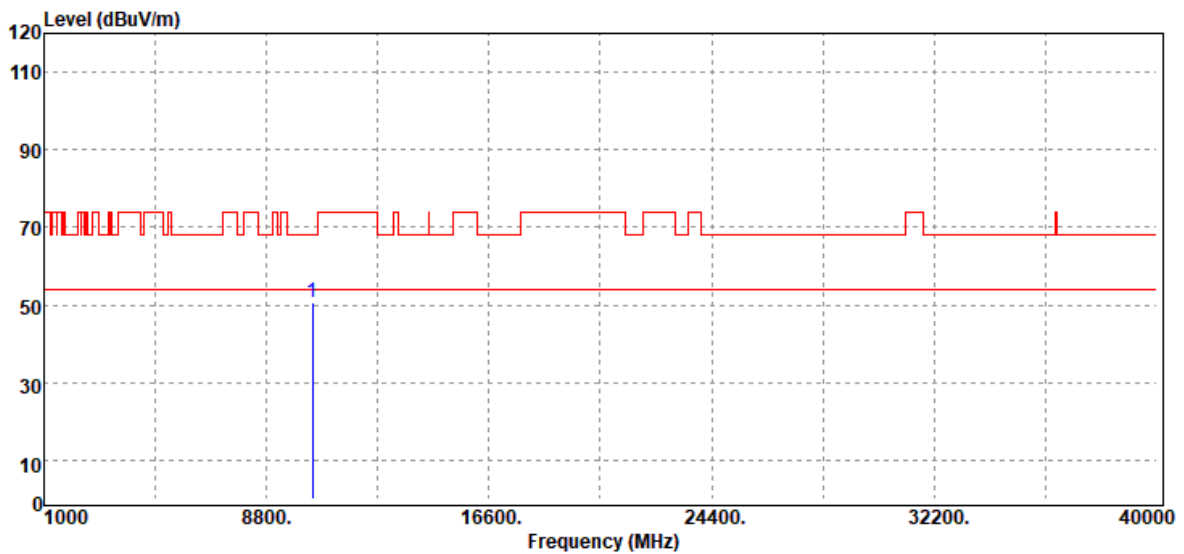


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10460.00	33.08	15.65	48.73	68.20	-19.47	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

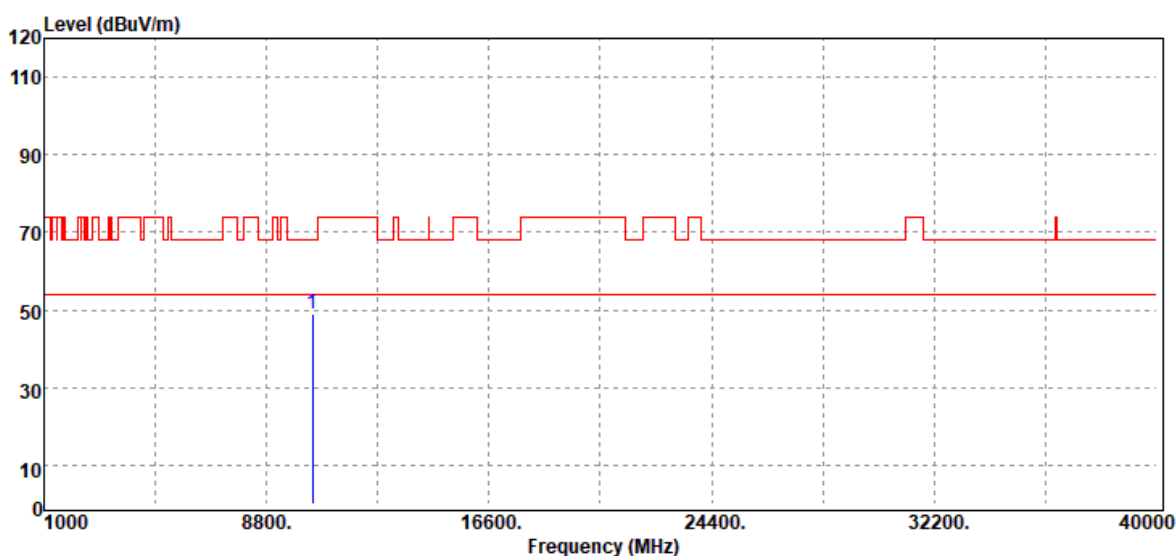


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10420.00	35.73	14.78	50.51	68.20	-17.69	Peak
N/A						

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

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



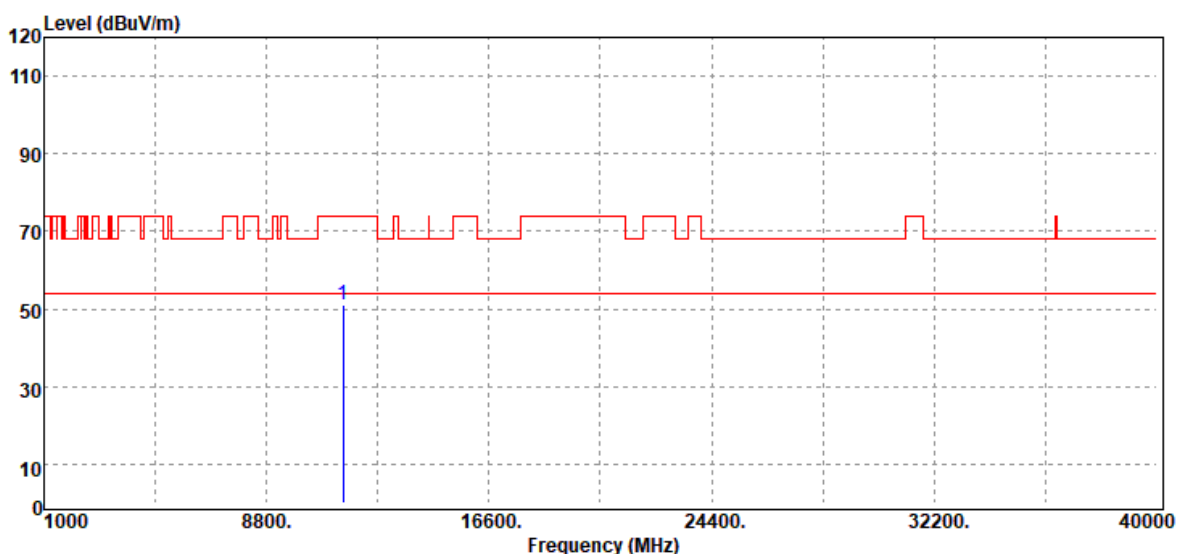
Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
10420.00	34.16	14.78	48.94	68.20	-19.26	Peak
N/A						

Remark:

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

Above 1G Test Data for UNII-3

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

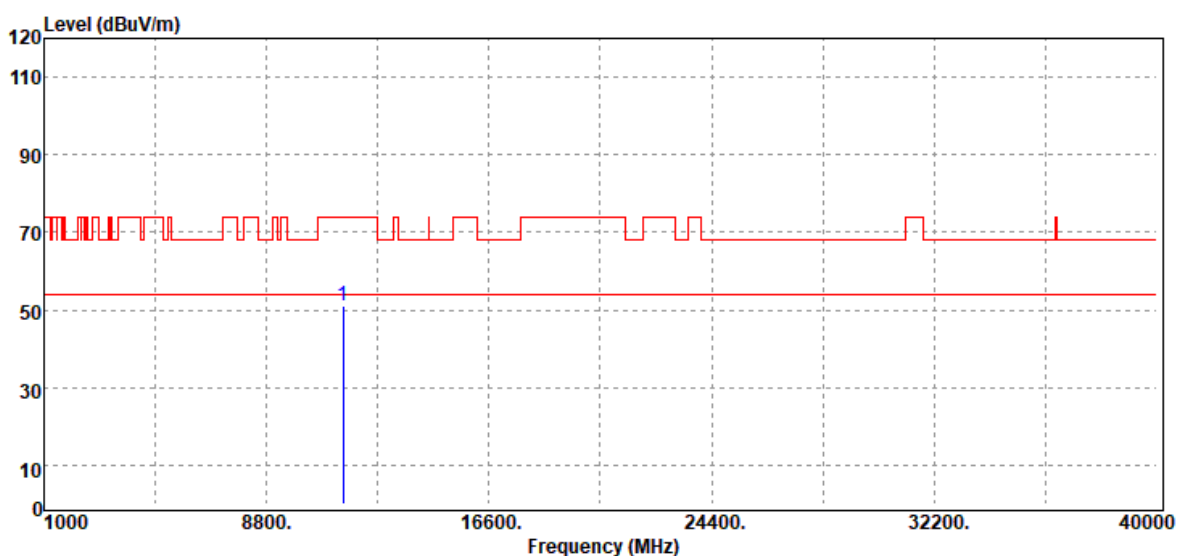


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	35.53	15.57	51.10	74.00	-22.90	Peak
N/A						

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

Test Mode	IEEE 802.11a Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

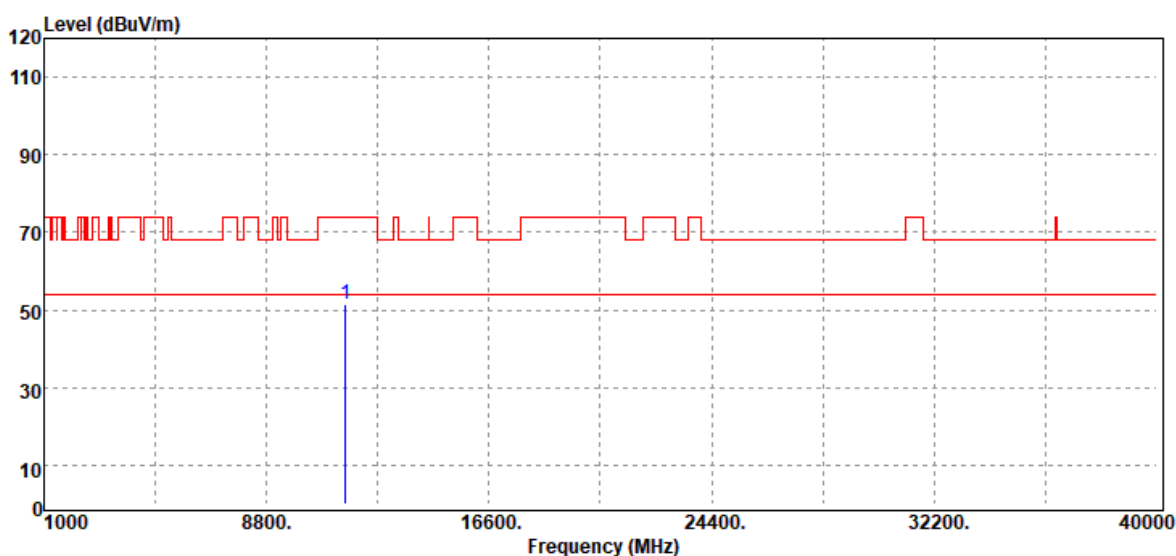


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	35.44	15.57	51.01	74.00	-22.99	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

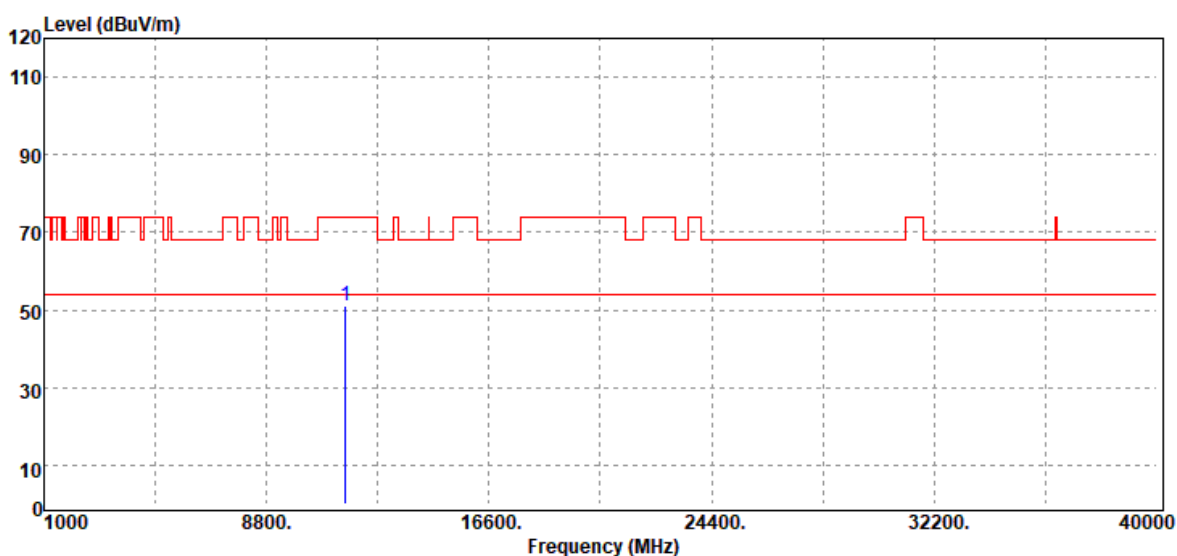


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	35.89	15.50	51.39	74.00	-22.61	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11a Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

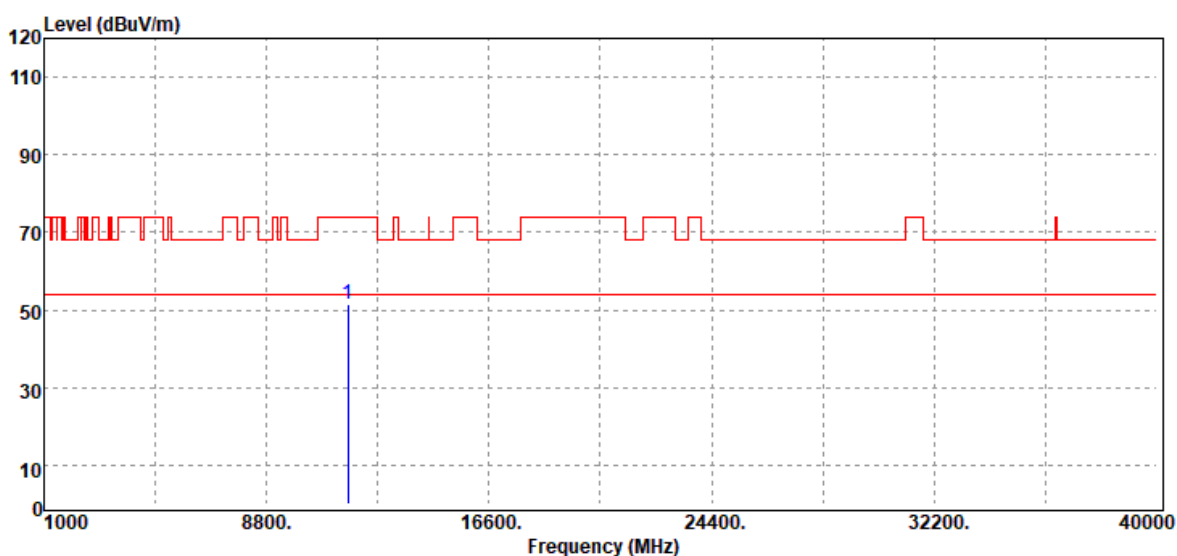


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	35.44	15.50	50.94	74.00	-23.06	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

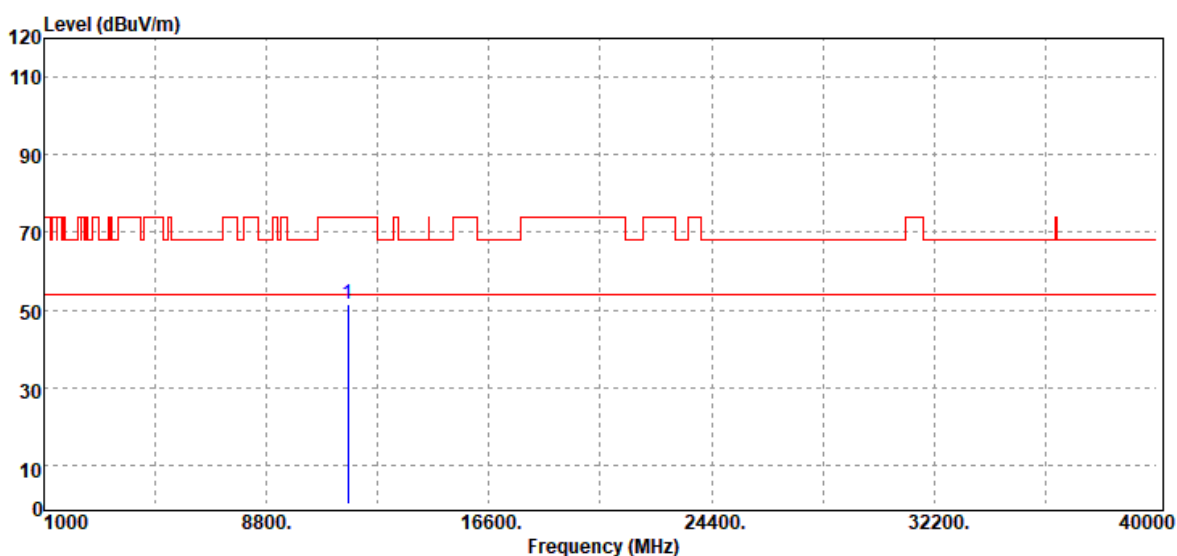


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	36.03	15.53	51.56	74.00	-22.44	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11a High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

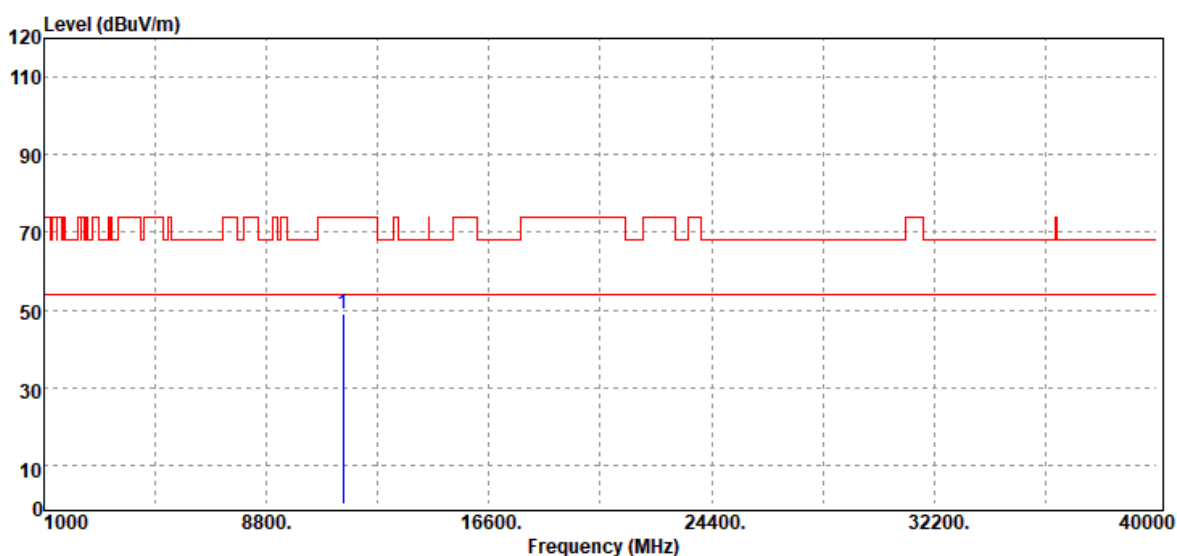


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	36.14	15.53	51.67	74.00	-22.33	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

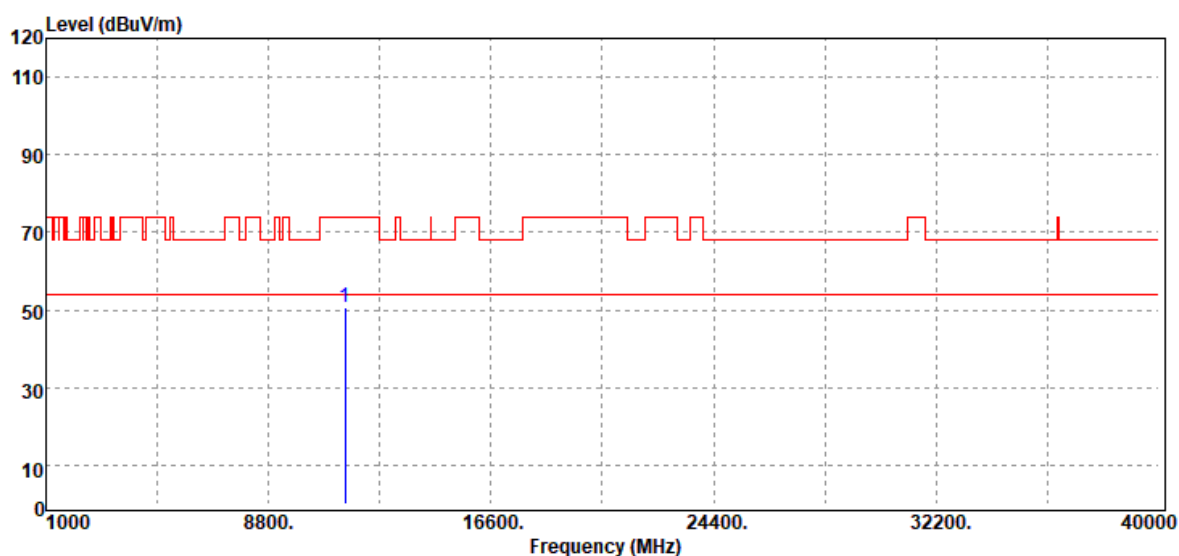


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	33.61	15.57	49.18	74.00	-24.82	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

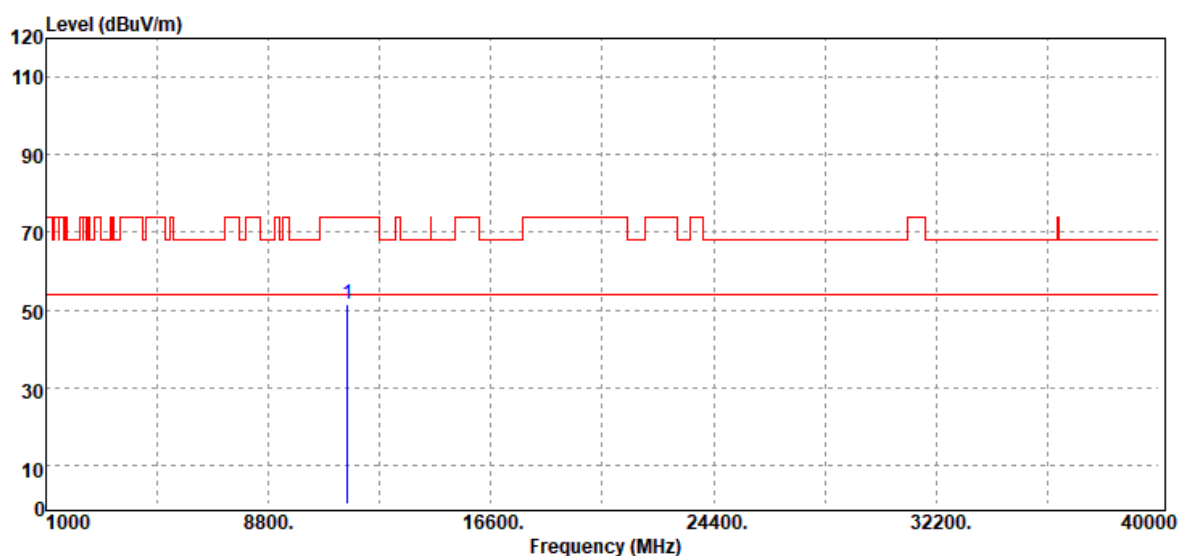


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11490.00	35.10	15.57	50.67	74.00	-23.33	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

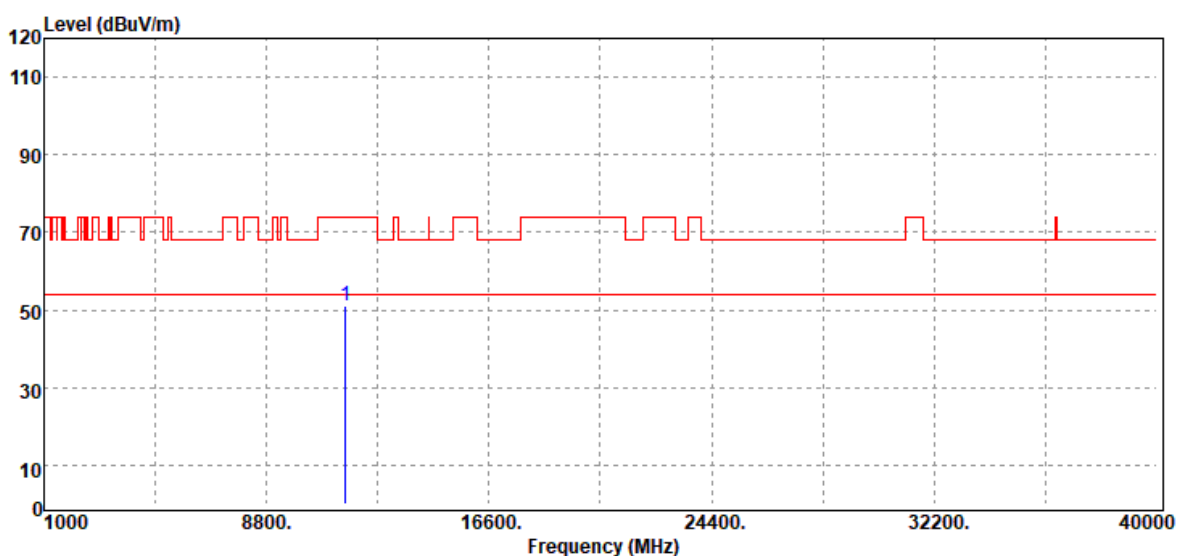


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	35.87	15.50	51.37	74.00	-22.63	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

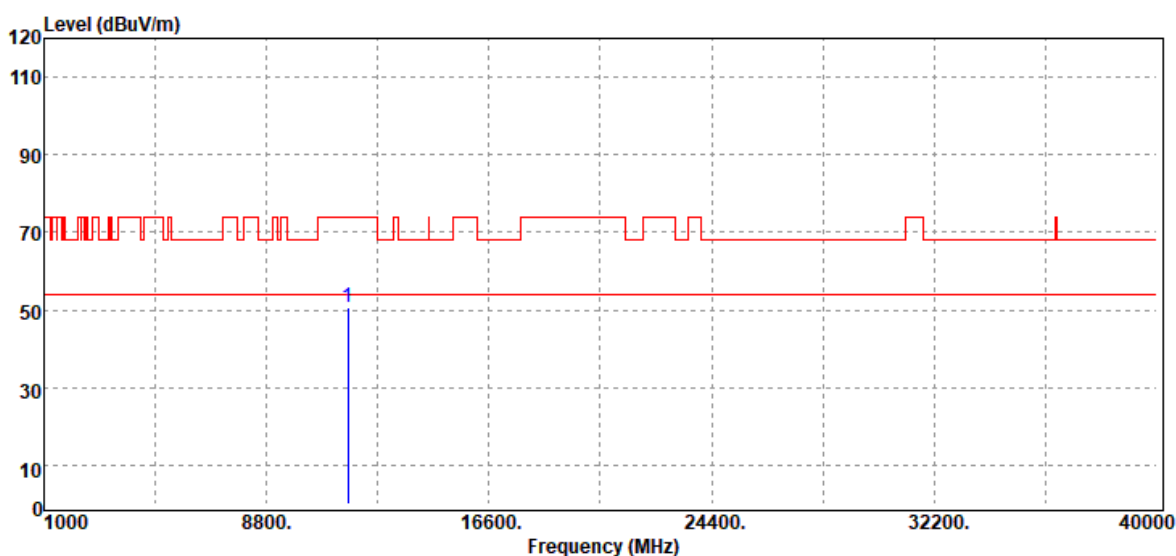


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11570.00	35.70	15.50	51.20	74.00	-22.80	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

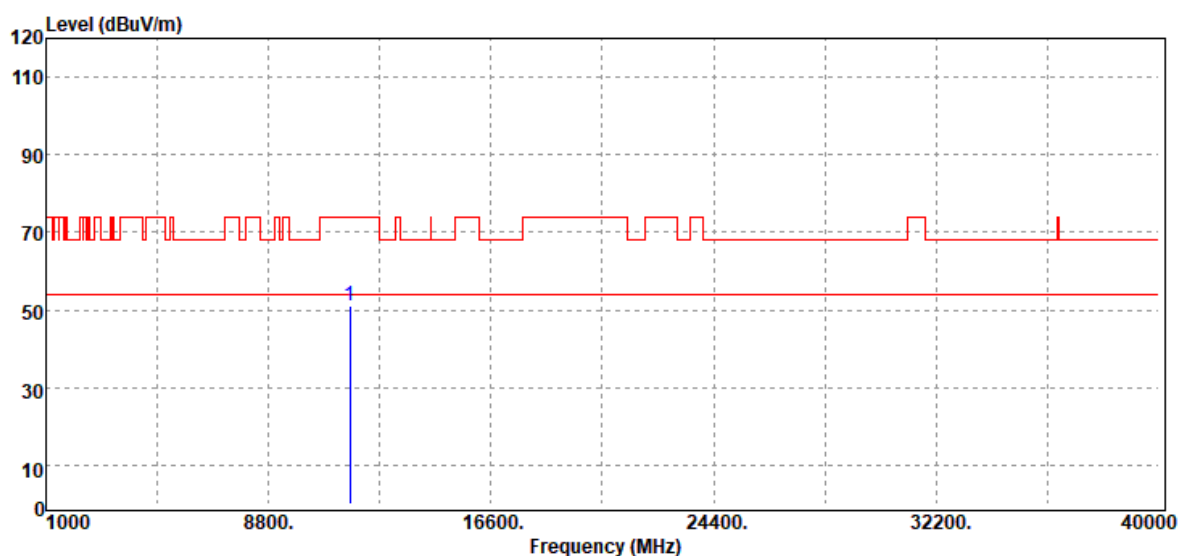


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	35.23	15.53	50.76	74.00	-23.24	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT20 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

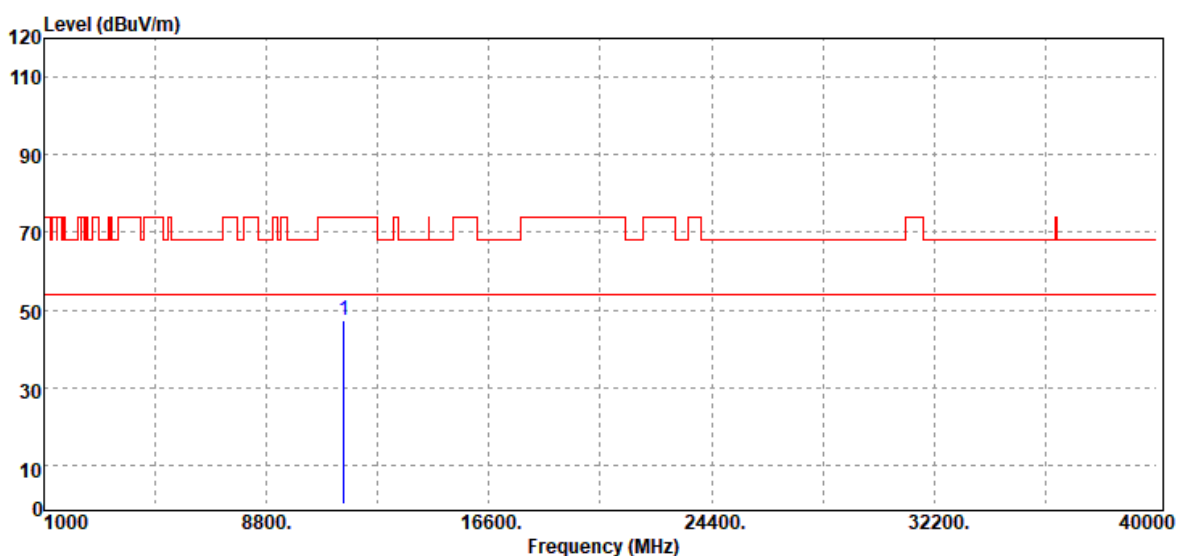


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11650.00	35.45	15.53	50.98	74.00	-23.02	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

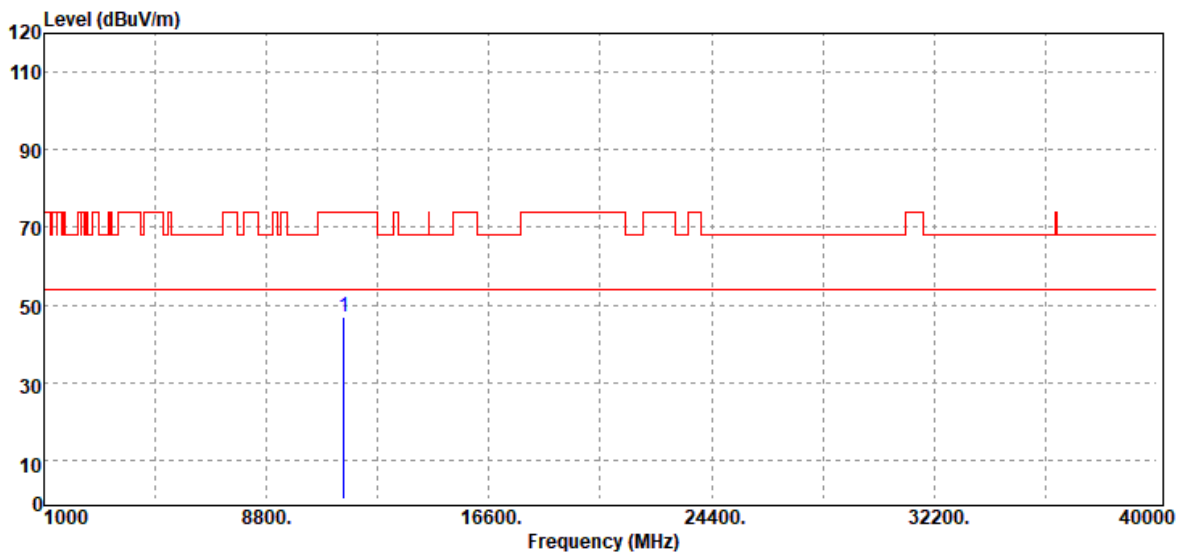


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.00	32.08	15.35	47.43	74.00	-26.57	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 Low CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

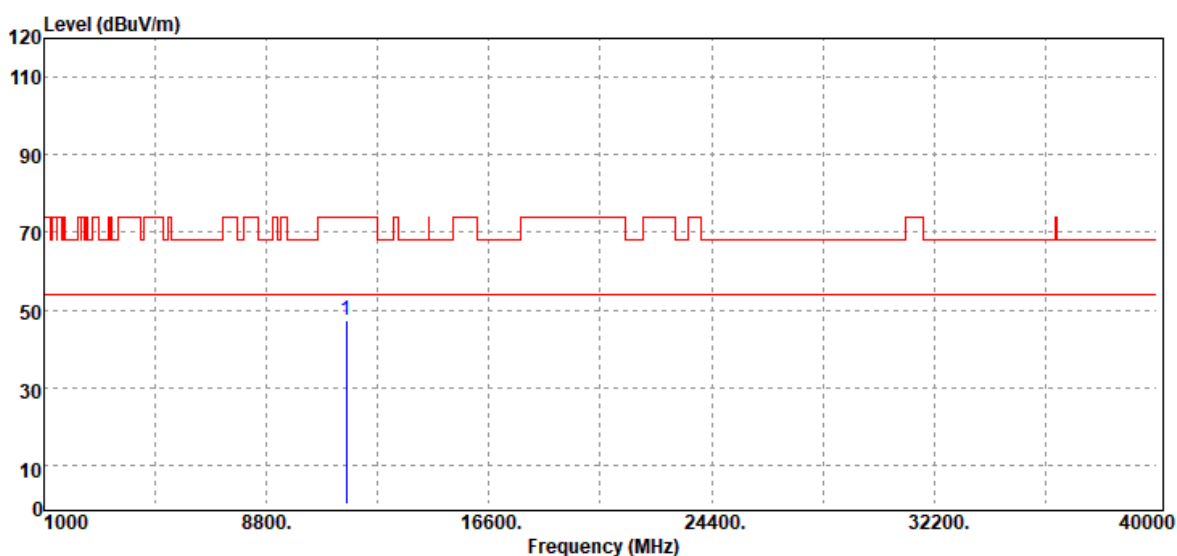


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11510.00	31.65	15.35	47.00	74.00	-27.00	Peak
N/A						

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

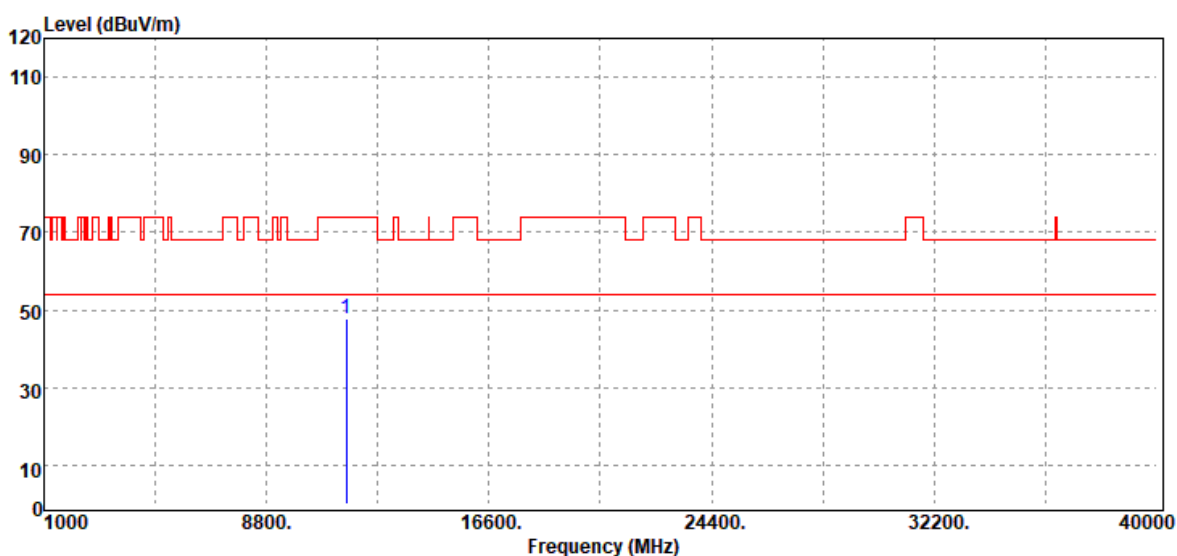


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.00	31.70	15.62	47.32	74.00	-26.68	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11n HT40 High CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		

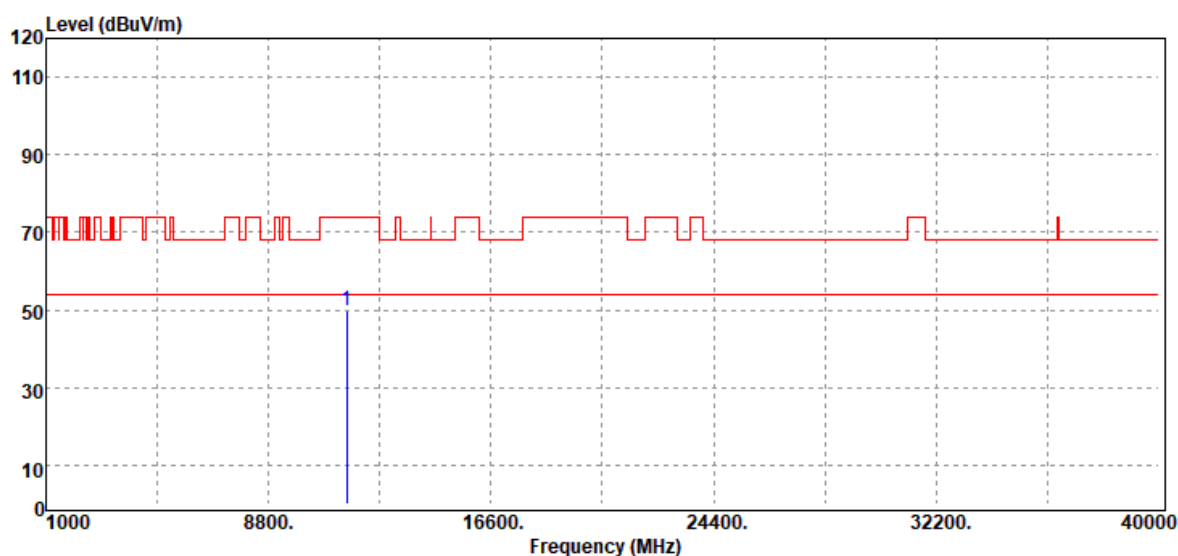


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11590.00	31.99	15.62	47.61	74.00	-26.39	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Vertical	Test Engineer	Dally Hong
Detector	Peak		

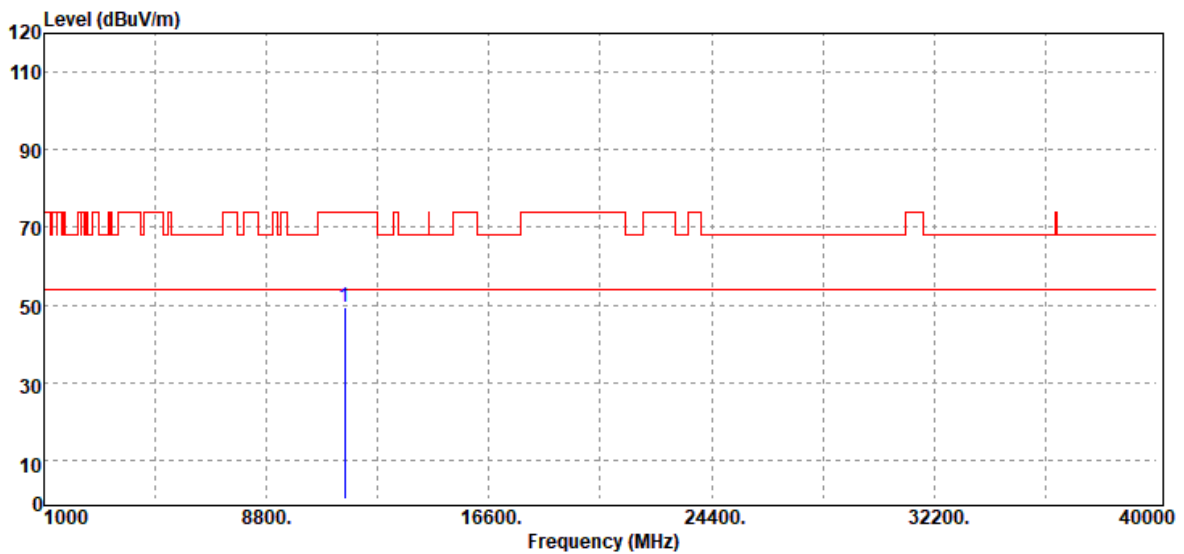


Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.00	34.55	15.39	49.94	74.00	-24.06	Peak
N/A						

Remark:

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

Test Mode	IEEE 802.11ac VHT80 Mid CH	Temp/Hum	21(°C)/ 52%RH
Test Item	Harmonic	Test Date	May 14, 2019
Polarize	Horizontal	Test Engineer	Dally Hong
Detector	Peak		



Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
11550.00	34.17	15.39	49.56	74.00	-24.44	Peak
N/A						

Remark:

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

4.6 FREQUENCY STABILITY

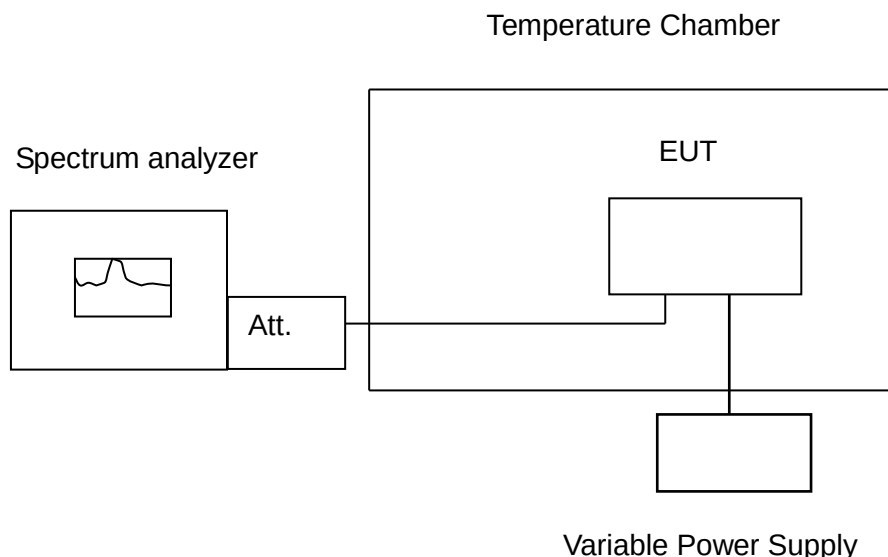
4.6.1 Test Limit

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 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +55°C reached.

4.6.3 Test Setup



4.6.4 Test Result

1TX

Temp. (°C)	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	120	5180.03517	5180.03690	5180.03821	5180.03951	6.7896	7.1236	7.3764	7.6274	Pass
50	120	5180.02388	5180.03082	5180.03300	5180.03430	4.6100	5.9498	6.3707	6.6216	Pass
40	120	5179.99175	5179.92620	5179.99522	5179.99653	-1.5927	-14.2471	-0.9228	-0.6699	Pass
30	120	5179.98220	5179.98350	5179.98741	5179.98828	-3.4363	-3.1853	-2.4305	-2.2625	Pass
25	120	5179.97786	5179.97829	5179.97873	5179.97916	-4.2741	-4.1911	-4.1062	-4.0232	Pass
10	120	5179.97569	5179.97699	5179.77420	5179.97786	-4.6931	-4.4421	-43.5907	-4.2741	Pass
0	120	5180.00651	5180.00608	5180.00564	5180.00521	1.2568	1.1737	1.0888	1.0058	Pass
-10	120	5179.99262	5179.99570	5180.00043	5180.00174	-1.4247	-0.8301	0.0830	0.3359	Pass
-20	120	5179.98698	5179.98741	5179.98828	5179.98915	-2.5135	-2.4305	-2.2625	-2.0946	Pass
Temp. (°C)	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	108	5179.97916	5179.97959	5179.97959	5179.97959	-4.0232	-3.9402	-3.9402	-3.9402	Pass
25	120	5179.980030	5179.97959	5179.97003	5179.97003	-3.8552	-3.9402	-5.7857	-5.7857	Pass
25	132	5179.97003	5179.97003	5179.98046	5179.98003	-5.7857	-5.7857	-3.7722	-3.8552	Pass



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Temp. (°C)	Voltage (V)	Measured Frequency	5260		(MHz)	Limit				Result
		Time (min)				20ppm				
		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
55	120	5745.02214	5745.02475	5745.02735	5745.02952	3.8538	4.3081	4.7607	5.1384	Pass
50	120	5745.01216	5745.01563	5745.01737	5745.01997	2.1166	2.7206	3.0235	3.4761	Pass
40	120	5745.00000	5745.00434	5745.00695	5745.00955	0.0000	0.7554	1.2097	1.6623	Pass
30	120	5744.98524	5744.98480	5744.98524	5744.98480	-2.5692	-2.6458	-2.5692	-2.6458	Pass
25	120	5744.97525	5744.97569	5744.97512	5744.97569	-4.3081	-4.2315	-4.3307	-4.2315	Pass
10	120	5744.97612	5744.97525	5744.97525	5744.97482	-4.1567	-4.3081	-4.3081	-4.3829	Pass
0	120	5744.98741	5744.98090	5744.97916	5744.97742	-2.1915	-3.3246	-3.6275	-3.9304	Pass
-10	120	5744.99826	5744.99653	5744.99566	5744.99479	-0.3029	-0.6040	-0.7554	-0.9069	Pass
-20	120	5745.00564	5745.00651	5745.01085	5745.00825	0.9817	1.1332	1.8886	1.4360	Pass
Temp. (°C)	Voltage (V)	Measured Frequency	5260		(MHz)	Limit				Result
		Time (min)				20ppm				
		0 min	2 min	5 min	10 min	0 min	2 min	5 min	10 min	
25	108	5744.97352	5744.97482	5744.97569	5744.97699	-4.6092	-4.3829	-4.2315	-4.0052	Pass
25	120	5744.97742	5744.97829	5744.97916	5744.98437	-3.9304	-3.7789	-3.6275	-2.7206	Pass
25	132	5744.98437	5744.98480	5744.98480	5744.98480	-2.7206	-2.6458	-2.6458	-2.6458	Pass



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2TX

Temp. (°C)	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	120	5180.03517	5180.03690	5180.03821	5180.03951	6.7896	7.1236	7.3764	7.6274	Pass
50	120	5180.02388	5180.03082	5180.03300	5180.03430	4.6100	5.9498	6.3707	6.6216	Pass
40	120	5179.99175	5179.92620	5179.99522	5179.99653	-1.5927	-14.2471	-0.9228	-0.6699	Pass
30	120	5179.98220	5179.98350	5179.98741	5179.98828	-3.4363	-3.1853	-2.4305	-2.2625	Pass
25	120	5179.97786	5179.97829	5179.97873	5179.97916	-4.2741	-4.1911	-4.1062	-4.0232	Pass
10	120	5179.97569	5179.97699	5179.77420	5179.97786	-4.6931	-4.4421	-43.5907	-4.2741	Pass
0	120	5180.00651	5180.00608	5180.00564	5180.00521	1.2568	1.1737	1.0888	1.0058	Pass
-10	120	5179.99262	5179.99570	5180.00043	5180.00174	-1.4247	-0.8301	0.0830	0.3359	Pass
-20	120	5179.98698	5179.98741	5179.98828	5179.98915	-2.5135	-2.4305	-2.2625	-2.0946	Pass
Temp. (°C)	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	108	5179.97916	5179.97959	5179.97959	5179.97959	-4.0232	-3.9402	-3.9402	-3.9402	Pass
25	120	5179.980030	5179.97959	5179.97003	5179.97003	-3.8552	-3.9402	-5.7857	-5.7857	Pass
25	132	5179.97003	5179.97003	5179.98046	5179.98003	-5.7857	-5.7857	-3.7722	-3.8552	Pass



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Temp. (°C)	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	
55	120	5745.02214	5745.02475	5745.02735	5745.02952	3.8538	4.3081	4.7607	5.1384	Pass
50	120	5745.00000	5745.00434	5745.00695	5745.00955	0.0000	0.7554	1.2097	1.6623	Pass
40	120	5744.98524	5744.98480	5744.98524	5744.98480	-2.5692	-2.6458	-2.5692	-2.6458	Pass
30	120	5744.97525	5744.97569	5744.97512	5744.97569	-4.3081	-4.2315	-4.3307	-4.2315	Pass
25	120	5744.97612	5744.97525	5744.97525	5744.97482	-4.1567	-4.3081	-4.3081	-4.3829	Pass
10	120	5744.98741	5744.98090	5744.97916	5744.97742	-2.1915	-3.3246	-3.6275	-3.9304	Pass
0	120	5744.99826	5744.99653	5744.99566	5744.99479	-0.3029	-0.6040	-0.7554	-0.9069	Pass
-10	120	5745.02214	5745.02475	5745.02735	5745.02952	3.8538	4.3081	4.7607	5.1384	Pass
-20	120	5745.00000	5745.00434	5745.00695	5745.00955	0.0000	0.7554	1.2097	1.6623	Pass
Temp. (°C)	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	
25	108	5744.97352	5744.97482	5744.97569	5744.97699	-4.6092	-4.3829	-4.2315	-4.0052	Pass
25	120	5744.97742	5744.97829	5744.97916	5744.98437	-3.9304	-3.7789	-3.6275	-2.7206	Pass
25	132	5744.98437	5744.98480	5744.98480	5744.98480	-2.7206	-2.6458	-2.6458	-2.6458	Pass

--End Report--