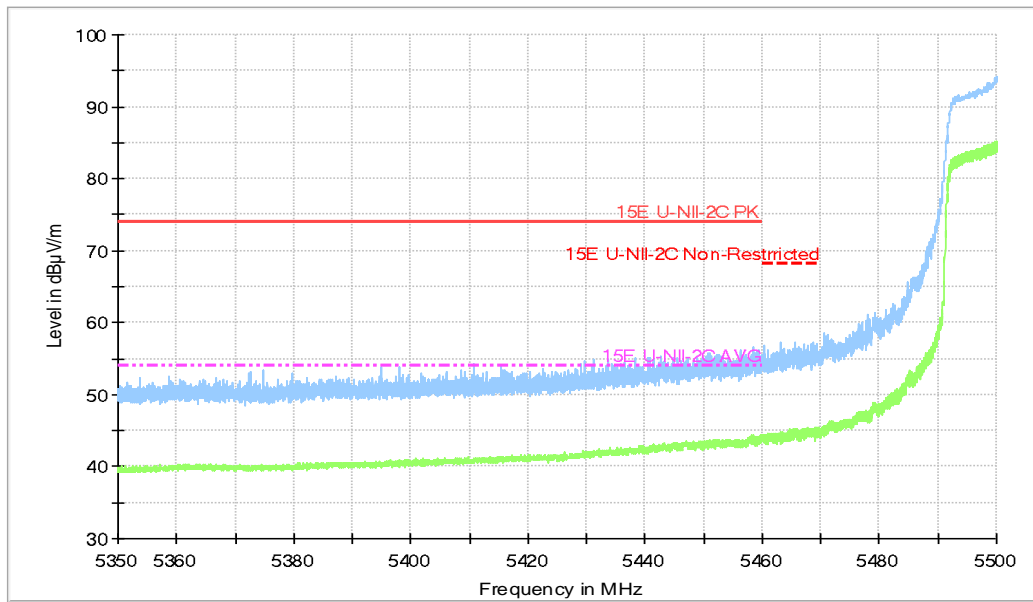


Full Spectrum

**Fig.68 Band Edges (802.11ac-HT80, 5530MHz)**

A.6. Transmitter Spurious Emission

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.407	-27 dBm/MHz

The measurement is made according to KDB 789033

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

Limit in restricted band:

Frequency of emission (MHz)	Field strength(dB μ V/m)	Measurement distance(m)
30-88	40.0	3
88-216	43.5	3
216-960	46.0	3
Above 960	54.0	3

Note: for frequency range below 960MHz, the limit in 15.209 is defined in 10m test distance. The limit used above is calculated from 10m to 3m

Measurement Results:

802.11a mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11a	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n HT40	38(5190MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	62(5310MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	102(5510MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
134(5670MHz)	30 MHz ~1 GHz	---	P	
	1 GHz ~ 3 GHz	---	P	
	3 GHz ~ 7 GHz	---	P	
	7 GHz ~ 18 GHz	---	P	
	18 GHz ~ 26.5 GHz	---	P	
	26.5 GHz ~ 40 GHz	---	P	

802.11ac-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT20	36(5180MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	40(5200MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

802.11ac-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac HT40	38(5190MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	46(5230MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	54(5270MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	62(5310MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	102(5510MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	118(5590MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
134(5670MHz)	30 MHz ~1 GHz	---	P	
	1 GHz ~ 3 GHz	---	P	
	3 GHz ~ 7 GHz	---	P	
	7 GHz ~ 18 GHz	---	P	
	18 GHz ~ 26.5 GHz	---	P	
	26.5 GHz ~ 40 GHz	---	P	

802.11ac-HT80 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac -HT80	42(5210MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	58(5290MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
	106(5530MHz)	26.5 GHz ~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

Conclusion: PASS

Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

$$\text{Result} = P_{Mea} + A_{Rpl} = P_{Mea} + \text{Cable Loss} + \text{Antenna Factor}$$

AVERAGE Results:
802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.9	47.4	-25.5	46.7	26.2	54	6.6	H
17963.2	47.2	-25.5	46.7	26	54	6.8	V
17975.8	47.2	-25.5	46.7	26	54	6.8	H
17951	47.1	-25.5	46.7	25.9	54	6.9	H
17964.8	47.1	-25.5	46.7	25.9	54	6.9	V
5149.4	42.3	-17	33.7	25.6	54	11.7	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17989	47.3	-25.5	46.7	26.1	54	6.7	V
17975.2	47.2	-25.5	46.7	26	54	6.8	V
17997.8	47.1	-25.5	46.7	25.9	54	6.9	V
17951.6	47	-25.5	46.7	25.8	54	7	H
17996.2	47	-25.5	46.7	25.8	54	7	H
17996.7	47	-25.5	46.7	25.8	54	7	H

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.8	47.2	-25.5	46.7	26	54	6.8	H
17997.2	47.2	-25.5	46.7	26	54	6.8	H
17973	47.1	-25.5	46.7	25.9	54	6.9	H
17983.5	47.1	-25.5	46.7	25.9	54	6.9	V
17958.2	47	-25.5	46.7	25.8	54	7	V
17965.3	47	-25.5	46.7	25.8	54	7	H

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.8	47.3	-25.5	46.7	26.1	54	6.7	V
17978.5	47.2	-25.5	46.7	26	54	6.8	V
17979.1	47.1	-25.5	46.7	25.9	54	6.9	H
17957.7	47	-25.5	46.7	25.8	54	7	H
17962	47	-25.5	46.7	25.8	54	7	V
17965.3	47	-25.5	46.7	25.8	54	7	H

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17969.2	47.1	-25.5	46.7	25.9	54	6.9	V
17970.3	47.1	-25.5	46.7	25.9	54	6.9	V
17984	47.1	-25.5	46.7	25.9	54	6.9	H
17985.7	47.1	-25.5	46.7	25.9	54	6.9	H
17990.1	47.1	-25.5	46.7	25.9	54	6.9	V
17989.5	47	-25.5	46.7	25.8	54	7	V

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17972.5	47.2	-25.5	46.7	26	54	6.8	V
17991.2	47.2	-25.5	46.7	26	54	6.8	V
17961	47.1	-25.5	46.7	25.9	54	6.9	H
17961.5	47.1	-25.5	46.7	25.9	54	6.9	H
17992.3	47.1	-25.5	46.7	25.9	54	6.9	V
5356	41.6	-16.9	34	24.5	54	12.4	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.4	47	-25.5	46.7	25.8	54	7	H
17960.4	46.9	-25.5	46.7	25.7	54	7.1	V
17975.8	46.9	-25.5	46.7	25.7	54	7.1	H
17987.9	46.9	-25.5	46.7	25.7	54	7.1	V
17991.2	46.9	-25.5	46.7	25.7	54	7.1	V
5459.1	41.1	-16.8	34.2	23.7	54	12.9	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.3	47.2	-25.5	46.7	26	54	6.8	H
17983.5	47.1	-25.5	46.7	25.9	54	6.9	V
17978	47	-25.5	46.7	25.8	54	7	V
17971.4	46.9	-25.5	46.7	25.7	54	7.1	V
17987.9	46.9	-25.5	46.7	25.7	54	7.1	H
17969.2	46.8	-25.5	46.7	25.6	54	7.2	H

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17979.1	47	-25.5	46.7	25.8	54	7	V
17958.2	46.9	-25.5	46.7	25.7	54	7.1	H
17982.4	46.9	-25.5	46.7	25.7	54	7.1	V
17984.6	46.9	-25.5	46.7	25.7	54	7.1	H
17985.7	46.9	-25.5	46.7	25.7	54	7.1	V
5725.2	41	-16.3	34.3	23	54	13	V

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17950	47.2	-25.5	46.7	26	54	6.8	H
17954.9	47.2	-25.5	46.7	26	54	6.8	H
17961.5	47.1	-25.5	46.7	25.9	54	6.9	V
17973.6	47.1	-25.5	46.7	25.9	54	6.9	H
17969.8	47	-25.5	46.7	25.8	54	7	V
5149.7	42.5	-17	33.7	25.8	54	11.5	V

Channel 40

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.5	47.2	-25.5	46.7	26	54	6.8	V
17945.5	47	-25.5	46.7	25.8	54	7	V
17968.1	47	-25.5	46.7	25.8	54	7	V
17972.5	47	-25.5	46.7	25.8	54	7	V
17975.2	47	-25.5	46.7	25.8	54	7	V
17977.5	47	-25.5	46.7	25.8	54	7	H

Channel 48

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17973.6	47.3	-25.5	46.7	26.1	54	6.7	V
17959.3	47	-25.5	46.7	25.8	54	7	H
17976.3	47	-25.5	46.7	25.8	54	7	H
17976.9	47	-25.5	46.7	25.8	54	7	V
17977.5	47	-25.5	46.7	25.8	54	7	V
17994	47	-25.5	46.7	25.8	54	7	V

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.8	47.3	-25.5	46.7	26.1	54	6.7	V
17971.4	47.1	-25.5	46.7	25.9	54	6.9	H
17979.7	47.1	-25.5	46.7	25.9	54	6.9	H
17986.8	47.1	-25.5	46.7	25.9	54	6.9	V
17989	47.1	-25.5	46.7	25.9	54	6.9	H
17991.2	47.1	-25.5	46.7	25.9	54	6.9	V

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978	47.2	-25.5	46.7	26	54	6.8	H
17981.8	47.2	-25.5	46.7	26	54	6.8	V
17989.5	47.2	-25.5	46.7	26	54	6.8	H
17997.2	47.2	-25.5	46.7	26	54	6.8	V
17988.5	47.1	-25.5	46.7	25.9	54	6.9	H
17989	47.1	-25.5	46.7	25.9	54	6.9	H

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.8	47.4	-25.5	46.7	26.2	54	6.6	H
17976.9	47.2	-25.5	46.7	26	54	6.8	H
17946.7	47.1	-25.5	46.7	25.9	54	6.9	V
17955.5	47.1	-25.5	46.7	25.9	54	6.9	V
17969.2	47.1	-25.5	46.7	25.9	54	6.9	H
5350	41.6	-16.9	34	24.5	54	12.4	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	47	-25.5	46.7	25.8	54	7	V
17976.9	46.9	-25.5	46.7	25.7	54	7.1	H
17984.6	46.9	-25.5	46.7	25.7	54	7.1	H
17994.5	46.9	-25.5	46.7	25.7	54	7.1	H
17956	46.8	-25.5	46.7	25.6	54	7.2	V
5454.5	40.6	-16.8	34.2	23.2	54	13.4	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17972.5	47	-25.5	46.7	25.8	54	7	V
17954.9	46.9	-25.5	46.7	25.7	54	7.1	V
17964.8	46.9	-25.5	46.7	25.7	54	7.1	H
17984.6	46.9	-25.5	46.7	25.7	54	7.1	V
17985.7	46.9	-25.5	46.7	25.7	54	7.1	H
17986.8	46.9	-25.5	46.7	25.7	54	7.1	H

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17979.1	47	-25.5	46.7	25.8	54	7	V
17947.2	46.9	-25.5	46.7	25.7	54	7.1	H
17976.9	46.9	-25.5	46.7	25.7	54	7.1	H
17985.7	46.9	-25.5	46.7	25.7	54	7.1	V
17996.7	46.9	-25.5	46.7	25.7	54	7.1	V
5728	41.5	-16.3	34.3	23.5	54	12.5	V

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17945.5	47.1	-25.5	46.7	25.9	54	6.9	V
17989.5	47.1	-25.5	46.7	25.9	54	6.9	V
17996.7	47.1	-25.5	46.7	25.9	54	6.9	V
17940.6	47	-25.5	46.7	25.8	54	7	V
17953.8	47	-25.5	46.7	25.8	54	7	V
5149.9	47.5	-17	33.7	30.8	54	6.5	V

Channel 46

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17984	47.3	-25.5	46.7	26.1	54	6.7	V
17990.7	47.1	-25.5	46.7	25.9	54	6.9	H
17998.9	47.1	-25.5	46.7	25.9	54	6.9	V
17979.7	47	-25.5	46.7	25.8	54	7	V
17986.8	47	-25.5	46.7	25.8	54	7	V
17992.3	47	-25.5	46.7	25.8	54	7	H

Channel 54

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17951.6	47	-25.5	46.7	25.8	54	7	V
17973.6	47	-25.5	46.7	25.8	54	7	H
17968.1	46.9	-25.5	46.7	25.7	54	7.1	H
17971.4	46.9	-25.5	46.7	25.7	54	7.1	H
17979.1	46.9	-25.5	46.7	25.7	54	7.1	H
17985.7	46.9	-25.5	46.7	25.7	54	7.1	V

Channel 62

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.3	47.1	-25.5	46.7	25.9	54	6.9	H
17978	47	-25.5	46.7	25.8	54	7	H
17975.8	46.9	-25.5	46.7	25.7	54	7.1	V
17991.2	46.9	-25.5	46.7	25.7	54	7.1	V
17951.6	46.8	-25.5	46.7	25.6	54	7.2	V
5350	45.1	-16.9	34	28	54	8.9	V

Channel 102

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983	47.2	-25.5	46.7	26	54	6.8	H
17959.3	47.1	-25.5	46.7	25.9	54	6.9	V
17976.9	47.1	-25.5	46.7	25.9	54	6.9	V
17984.6	47.1	-25.5	46.7	25.9	54	6.9	H
17992.3	47.1	-25.5	46.7	25.9	54	6.9	H
5458.1	41.1	-16.8	34.2	23.7	54	12.9	V

Channel 118

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17986.2	47.3	-25.5	46.7	26.1	54	6.7	V
17963.2	47.2	-25.5	46.7	26	54	6.8	H
17990.7	47.2	-25.5	46.7	26	54	6.8	H
17969.8	47.1	-25.5	46.7	25.9	54	6.9	V
17970.8	47.1	-25.5	46.7	25.9	54	6.9	H
17974.2	47.1	-25.5	46.7	25.9	54	6.9	H

Channel 134

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17950.5	47.2	-25.5	46.7	26	54	6.8	V
17981.3	47.2	-25.5	46.7	26	54	6.8	H
17997.8	47.2	-25.5	46.7	26	54	6.8	V
17962.6	47.1	-25.5	46.7	25.9	54	6.9	V
17949.4	47	-25.5	46.7	25.8	54	7	V
5725.7	40.4	-16.3	34.3	22.4	54	13.6	V

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989.5	47.3	-25.5	46.7	26.1	54	6.7	H
17958.8	47.2	-25.5	46.7	26	54	6.8	V
17989	47.2	-25.5	46.7	26	54	6.8	V
17973	47	-25.5	46.7	25.8	54	7	V
17977.5	47	-25.5	46.7	25.8	54	7	H
5149.9	42.2	-17	33.7	25.5	54	11.8	V

Channel 40

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17969.2	47.1	-25.5	46.7	25.9	54	6.9	H
17998.9	47.1	-25.5	46.7	25.9	54	6.9	V
17971.4	47	-25.5	46.7	25.8	54	7	V
17973.6	47	-25.5	46.7	25.8	54	7	V
17979.1	47	-25.5	46.7	25.8	54	7	V
17985.2	47	-25.5	46.7	25.8	54	7	V

Channel 48

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17972.5	47.2	-25.5	46.7	26	54	6.8	V
17987.9	47.2	-25.5	46.7	26	54	6.8	V
17990.1	47.1	-25.5	46.7	25.9	54	6.9	H
17992.3	47.1	-25.5	46.7	25.9	54	6.9	H
17951	47	-25.5	46.7	25.8	54	7	V
17963.7	47	-25.5	46.7	25.8	54	7	H

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978	47.2	-25.5	46.7	26	54	6.8	V
17984.6	47.2	-25.5	46.7	26	54	6.8	H
17961.5	47.1	-25.5	46.7	25.9	54	6.9	V
17962.6	47.1	-25.5	46.7	25.9	54	6.9	V
17967	47	-25.5	46.7	25.8	54	7	V
17972.5	47	-25.5	46.7	25.8	54	7	H

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17957.7	47.1	-25.5	46.7	25.9	54	6.9	V
17958.2	47.1	-25.5	46.7	25.9	54	6.9	V
17962	47.1	-25.5	46.7	25.9	54	6.9	V
17978	47.1	-25.5	46.7	25.9	54	6.9	H
17963.7	47	-25.5	46.7	25.8	54	7	V
17970.8	47	-25.5	46.7	25.8	54	7	V

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983.5	47.1	-25.5	46.7	25.9	54	6.9	V
17988.5	47.1	-25.5	46.7	25.9	54	6.9	V
17953.2	47	-25.5	46.7	25.8	54	7	V
17958.8	47	-25.5	46.7	25.8	54	7	V
17978.5	47	-25.5	46.7	25.8	54	7	H
5351.3	41.6	-16.9	34	24.5	54	12.4	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17965.9	47.1	-25.5	46.7	25.9	54	6.9	H
17972.5	46.8	-25.5	46.7	25.6	54	7.2	H
17983.5	46.8	-25.5	46.7	25.6	54	7.2	V
17984.6	46.8	-25.5	46.7	25.6	54	7.2	H
17986.8	46.8	-25.5	46.7	25.6	54	7.2	H
5457.3	40.5	-16.8	34.2	23.1	54	13.5	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17976.9	47	-25.5	46.7	25.8	54	7	H
17948.3	46.9	-25.5	46.7	25.7	54	7.1	H
17962.6	46.9	-25.5	46.7	25.7	54	7.1	V
17981.3	46.9	-25.5	46.7	25.7	54	7.1	H
17983.5	46.9	-25.5	46.7	25.7	54	7.1	V
17959.3	46.8	-25.5	46.7	25.6	54	7.2	V

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17959.3	46.9	-25.5	46.7	25.7	54	7.1	V
17979.1	46.9	-25.5	46.7	25.7	54	7.1	V
17952.7	46.8	-25.5	46.7	25.6	54	7.2	V
17957.1	46.8	-25.5	46.7	25.6	54	7.2	V
17961.5	46.8	-25.5	46.7	25.6	54	7.2	H
5725.1	41.1	-16.3	34.3	23.1	54	12.9	V

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17993.4	47.4	-25.5	46.7	26.2	54	6.6	H
17969.8	47.1	-25.5	46.7	25.9	54	6.9	H
17958.2	47	-25.5	46.7	25.8	54	7	H
17960.4	47	-25.5	46.7	25.8	54	7	V
17962	47	-25.5	46.7	25.8	54	7	H
5149.9	47.4	-17	33.7	30.7	54	6.6	V

Channel 46

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	47.2	-25.5	46.7	26	54	6.8	V
17974.7	47.1	-25.5	46.7	25.9	54	6.9	H
17976.9	47.1	-25.5	46.7	25.9	54	6.9	V
17982.4	47.1	-25.5	46.7	25.9	54	6.9	H
17997.2	47.1	-25.5	46.7	25.9	54	6.9	H
17968.7	47	-25.5	46.7	25.8	54	7	H

Channel 54

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17987.9	47.4	-25.5	46.7	26.2	54	6.6	H
17959.3	47	-25.5	46.7	25.8	54	7	V
17971.4	47	-25.5	46.7	25.8	54	7	H
17979.1	47	-25.5	46.7	25.8	54	7	H
17969.2	46.9	-25.5	46.7	25.7	54	7.1	V
17981.3	46.9	-25.5	46.7	25.7	54	7.1	H

Channel 62

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978	47	-25.5	46.7	25.8	54	7	V
17979.1	47	-25.5	46.7	25.8	54	7	H
17980.2	46.9	-25.5	46.7	25.7	54	7.1	V
17982.4	46.9	-25.5	46.7	25.7	54	7.1	V
17963.7	46.8	-25.5	46.7	25.6	54	7.2	H
5350	45.2	-16.9	34	28.1	54	8.8	V

Channel 102

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17994.5	47.2	-25.5	46.7	26	54	6.8	H
17969.8	47.1	-25.5	46.7	25.9	54	6.9	V
17996.2	47.1	-25.5	46.7	25.9	54	6.9	V
17997.8	47.1	-25.5	46.7	25.9	54	6.9	V
17962.6	47	-25.5	46.7	25.8	54	7	H
5459.5	40.7	-16.8	34.2	23.3	54	13.3	V

Channel 118

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17958.8	47.1	-25.5	46.7	25.9	54	6.9	V
17976.3	47	-25.5	46.7	25.8	54	7	H
17994.5	47	-25.5	46.7	25.8	54	7	V
17963.2	46.9	-25.5	46.7	25.7	54	7.1	V
17963.7	46.9	-25.5	46.7	25.7	54	7.1	H
17970.3	46.9	-25.5	46.7	25.7	54	7.1	V

Channel 134

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.2	47.3	-25.5	46.7	26.1	54	6.7	V
17965.9	47.2	-25.5	46.7	26	54	6.8	H
17973	47.2	-25.5	46.7	26	54	6.8	H
17976.9	47.2	-25.5	46.7	26	54	6.8	H
17997.8	47.1	-25.5	46.7	25.9	54	6.9	H
5725.4	40.4	-16.3	34.3	22.4	54	13.6	V

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.2	47	-25.5	46.7	25.8	54	7	H
17982.4	47	-25.5	46.7	25.8	54	7	V
17965.9	46.9	-25.5	46.7	25.7	54	7.1	H
17970.3	46.9	-25.5	46.7	25.7	54	7.1	H
17987.9	46.9	-25.5	46.7	25.7	54	7.1	V
5150	50.8	-17	33.7	34.1	54	3.2	V

Channel 58

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962.6	47	-25.5	46.7	25.8	54	7	H
17979.1	47	-25.5	46.7	25.8	54	7	H
17984.6	46.9	-25.5	46.7	25.7	54	7.1	H
17987.9	46.9	-25.5	46.7	25.7	54	7.1	H
17975.8	46.8	-25.5	46.7	25.6	54	7.2	V
5350.2	49.8	-16.9	34	32.7	54	4.2	V

Channel 106

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.2	47.1	-25.5	46.7	25.9	54	6.9	V
17983.5	47.1	-25.5	46.7	25.9	54	6.9	H
17962.6	47	-25.5	46.7	25.8	54	7	V
17977.5	47	-25.5	46.7	25.8	54	7	V
17986.8	47	-25.5	46.7	25.8	54	7	V
5458.5	44.4	-16.8	34.2	27	54	9.6	V

PEAK Results:
802.11a

Channel 36

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17984.6	59	-25.5	46.7	37.8	74	15	H
17960.4	58.7	-25.5	46.7	37.5	74	15.3	V
17985.2	58.7	-25.5	46.7	37.5	74	15.3	V
17968.7	58.5	-25.5	46.7	37.3	74	15.5	H
17979.7	58.3	-25.5	46.7	37.1	74	15.7	V
5148.6	54.3	-17	33.7	37.6	74	19.7	H

Channel 40

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17985.2	58.8	-25.5	46.7	37.6	74	15.2	V
17931.2	58.6	-25.5	46.7	37.4	74	15.4	V
17943.9	58.4	-25.5	46.7	37.2	74	15.6	V
17954.9	58.4	-25.5	46.7	37.2	74	15.6	V
17962	58.3	-25.5	46.7	37.1	74	15.7	V
17974.7	58.3	-25.5	46.7	37.1	74	15.7	V

Channel 48

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17953.2	58.7	-25.5	46.7	37.5	74	15.3	V
17898.8	58.5	-25.5	46.7	37.3	74	15.5	V
17956.5	58.4	-25.5	46.7	37.2	74	15.6	V
17983	58.4	-25.5	46.7	37.2	74	15.6	H
17995.6	58.4	-25.5	46.7	37.2	74	15.6	H
17970.3	58.3	-25.5	46.7	37.1	74	15.7	H

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995	58.6	-25.5	46.7	37.4	74	15.4	H
17967	58.5	-25.5	46.7	37.3	74	15.5	V
17883.4	58.3	-25.5	46.7	37.1	74	15.7	H
17978	58.3	-25.5	46.7	37.1	74	15.7	H
17982.4	58.2	-25.5	46.7	37	74	15.8	V
17870.8	58	-25.5	46.7	36.8	74	16	H

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	59	-25.5	46.7	37.8	74	15	H
17990.1	58.7	-25.5	46.7	37.5	74	15.3	V
17994.5	58.6	-25.5	46.7	37.4	74	15.4	H
17998.9	58.6	-25.5	46.7	37.4	74	15.4	H
17987.9	58.3	-25.5	46.7	37.1	74	15.7	V
17836.7	58.2	-25.5	46.7	37	74	15.8	V

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17878.5	59.2	-25.5	46.7	38	74	14.8	H
17973.6	59.1	-25.5	46.7	37.9	74	14.9	H
17975.2	58.7	-25.5	46.7	37.5	74	15.3	H
17962	58.6	-25.5	46.7	37.4	74	15.4	V
17992.3	58.6	-25.5	46.7	37.4	74	15.4	V
5351.6	55.3	-16.9	34	38.2	74	18.7	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17960.4	58.9	-25.5	46.7	37.7	74	15.1	V
17936.2	58.5	-25.5	46.7	37.3	74	15.5	V
17886.7	58.2	-25.5	46.7	37	74	15.8	H
17972.5	58.1	-25.5	46.7	36.9	74	15.9	H
17868	58	-25.5	46.7	36.8	74	16	H
5458.7	53	-16.8	34.2	35.6	74	21	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17934	59	-25.5	46.7	37.8	74	15	H
17976.9	58.9	-25.5	46.7	37.7	74	15.1	V
17997.8	58.6	-25.5	46.7	37.4	74	15.4	H
17959.3	58.5	-25.5	46.7	37.3	74	15.5	H
17951.6	58.2	-25.5	46.7	37	74	15.8	H
17985.7	58.2	-25.5	46.7	37	74	15.8	V

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17991.2	58.7	-25.5	46.7	37.5	74	15.3	V
17976.9	58.4	-25.5	46.7	37.2	74	15.6	V
17989	58.4	-25.5	46.7	37.2	74	15.6	V
17897.7	58.2	-25.5	46.7	37	74	15.8	H
17928.5	58.2	-25.5	46.7	37	74	15.8	H
5726	52.6	-16.3	34.3	34.6	74	21.4	V

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17950	58.9	-25.5	46.7	37.7	74	15.1	H
17947.2	58.7	-25.5	46.7	37.5	74	15.3	H
17973.6	58.7	-25.5	46.7	37.5	74	15.3	H
17991.8	58.5	-25.5	46.7	37.3	74	15.5	H
17983	58.3	-25.5	46.7	37.1	74	15.7	V
5149.8	55.7	-17	33.7	39	74	18.3	V

Channel 40

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989.5	59.1	-25.5	46.7	37.9	74	14.9	H
17975.2	59	-25.5	46.7	37.8	74	15	V
17980.2	58.2	-25.5	46.7	37	74	15.8	V
17993.4	58.2	-25.5	46.7	37	74	15.8	H
17977.5	58.1	-25.5	46.7	36.9	74	15.9	H
17998.9	58.1	-25.5	46.7	36.9	74	15.9	H

Channel 48

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17879.5	58.8	-25.5	46.7	37.6	74	15.2	V
17991.8	58.8	-25.5	46.7	37.6	74	15.2	V
17939	58.5	-25.5	46.7	37.3	74	15.5	H
17947.2	58.5	-25.5	46.7	37.3	74	15.5	V
17977.5	58.5	-25.5	46.7	37.3	74	15.5	V
17978	58.5	-25.5	46.7	37.3	74	15.5	V

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17977.5	58.8	-25.5	46.7	37.6	74	15.2	H
17978.5	58.8	-25.5	46.7	37.6	74	15.2	V
17980.2	58.5	-25.5	46.7	37.3	74	15.5	V
17963.7	58.4	-25.5	46.7	37.2	74	15.6	V
17955.5	58.2	-25.5	46.7	37	74	15.8	V
17970.8	58.2	-25.5	46.7	37	74	15.8	V

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17927.4	58.7	-25.5	46.7	37.5	74	15.3	V
17964.8	58.5	-25.5	46.7	37.3	74	15.5	H
17885	58.3	-25.5	46.7	37.1	74	15.7	H
17973.6	58.2	-25.5	46.7	37	74	15.8	H
17980.8	58.2	-25.5	46.7	37	74	15.8	H
17945	58.1	-25.5	46.7	36.9	74	15.9	H

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17943.9	59.3	-25.5	46.7	38.1	74	14.7	H
17965.3	58.9	-25.5	46.7	37.7	74	15.1	H
17989.5	58.6	-25.5	46.7	37.4	74	15.4	H
17993.4	58.6	-25.5	46.7	37.4	74	15.4	H
17990.7	58.5	-25.5	46.7	37.3	74	15.5	V
5354.1	54.3	-16.9	34	37.2	74	19.7	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17899.9	58.9	-25.5	46.7	37.7	74	15.1	H
17995.6	58.8	-25.5	46.7	37.6	74	15.2	H
17980.2	58.5	-25.5	46.7	37.3	74	15.5	H
17940.6	58.4	-25.5	46.7	37.2	74	15.6	H
17943.9	58.4	-25.5	46.7	37.2	74	15.6	V
5452.7	52.5	-16.8	34.2	35.1	74	21.5	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17989	58.5	-25.5	46.7	37.3	74	15.5	H
17993.4	58.5	-25.5	46.7	37.3	74	15.5	V
17948.3	58.4	-25.5	46.7	37.2	74	15.6	V
17975.8	58.3	-25.5	46.7	37.1	74	15.7	H
17965.9	58.2	-25.5	46.7	37	74	15.8	H
17964.8	58.1	-25.5	46.7	36.9	74	15.9	H

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17968.1	58.8	-25.5	46.7	37.6	74	15.2	V
17972.5	58.4	-25.5	46.7	37.2	74	15.6	H
17946.1	58.2	-25.5	46.7	37	74	15.8	V
17951.6	58.2	-25.5	46.7	37	74	15.8	V
17960.4	58.2	-25.5	46.7	37	74	15.8	V
5729.3	53.9	-16.3	34.3	35.9	74	20.1	V

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17946.1	58.9	-25.5	46.7	37.7	74	15.1	H
17993.4	58.9	-25.5	46.7	37.7	74	15.1	H
17957.7	58.3	-25.5	46.7	37.1	74	15.7	H
17968.1	58.3	-25.5	46.7	37.1	74	15.7	V
17974.7	58.3	-25.5	46.7	37.1	74	15.7	V
5147.9	61	-17	33.7	44.3	74	13	V

Channel 46

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17971.4	58.9	-25.5	46.7	37.7	74	15.1	H
17997.8	58.5	-25.5	46.7	37.3	74	15.5	H
17968.7	58.4	-25.5	46.7	37.2	74	15.6	V
17960.4	58.3	-25.5	46.7	37.1	74	15.7	V
17975.2	58.3	-25.5	46.7	37.1	74	15.7	H
17895.5	58.2	-25.5	46.7	37	74	15.8	H

Channel 54

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17973.6	59.3	-25.5	46.7	38.1	74	14.7	H
17924.1	58.9	-25.5	46.7	37.7	74	15.1	H
17938.4	58.9	-25.5	46.7	37.7	74	15.1	V
17959.3	58.9	-25.5	46.7	37.7	74	15.1	H
17961.5	58.5	-25.5	46.7	37.3	74	15.5	V
17964.8	58.5	-25.5	46.7	37.3	74	15.5	V

Channel 62

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17958.2	58.8	-25.5	46.7	37.6	74	15.2	V
17941.7	58.5	-25.5	46.7	37.3	74	15.5	V
17939.5	58.4	-25.5	46.7	37.2	74	15.6	V
17952.7	58.1	-25.5	46.7	36.9	74	15.9	V
17839.4	58	-25.5	46.7	36.8	74	16	V
5351.7	62	-16.9	34	44.9	74	12	V

Channel 102

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17955.5	59	-25.5	46.7	37.8	74	15	V
17943.9	58.9	-25.5	46.7	37.7	74	15.1	V
17946.1	58.6	-25.5	46.7	37.4	74	15.4	V
17970.3	58.6	-25.5	46.7	37.4	74	15.4	H
17962.6	58.5	-25.5	46.7	37.3	74	15.5	H
5458.2	59.2	-16.8	34.2	41.8	74	14.8	V

Channel 118

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17956.5	58.8	-25.5	46.7	37.6	74	15.2	V
17990.7	58.7	-25.5	46.7	37.5	74	15.3	H
17985.2	58.6	-25.5	46.7	37.4	74	15.4	H
17870.8	58.5	-25.5	46.7	37.3	74	15.5	V
17899.9	58.3	-25.5	46.7	37.1	74	15.7	H
17967.5	58.3	-25.5	46.7	37.1	74	15.7	V

Channel 134

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17941.2	58.6	-25.5	46.7	37.4	74	15.4	H
17987.9	58.6	-25.5	46.7	37.4	74	15.4	V
17982.4	58.5	-25.5	46.7	37.3	74	15.5	V
17984.6	58.4	-25.5	46.7	37.2	74	15.6	V
17901.5	58.3	-25.5	46.7	37.1	74	15.7	V
5739.2	58.6	-16.3	34.3	40.6	74	15.4	V

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17998.9	58.6	-25.5	46.7	37.4	74	15.4	H
17990.1	58.5	-25.5	46.7	37.3	74	15.5	V
17993.4	58.4	-25.5	46.7	37.2	74	15.6	H
17860.8	58.3	-25.5	46.7	37.1	74	15.7	H
17954.3	58.3	-25.5	46.7	37.1	74	15.7	H
5148.3	54.6	-17	33.7	37.9	74	19.4	V

Channel 40

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17964.2	59.2	-25.5	46.7	38	74	14.8	V
17987.3	59	-25.5	46.7	37.8	74	15	H
17968.7	58.8	-25.5	46.7	37.6	74	15.2	V
17988.5	58.7	-25.5	46.7	37.5	74	15.3	H
17996.2	58.6	-25.5	46.7	37.4	74	15.4	H
17946.1	58.5	-25.5	46.7	37.3	74	15.5	H

Channel 48

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.7	59.4	-25.5	46.7	38.2	74	14.6	H
17943.9	58.7	-25.5	46.7	37.5	74	15.3	H
17979.7	58.5	-25.5	46.7	37.3	74	15.5	H
17992.8	58.4	-25.5	46.7	37.2	74	15.6	V
17976.3	58.3	-25.5	46.7	37.1	74	15.7	H
17939	58.1	-25.5	46.7	36.9	74	15.9	V

Channel 52

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17946.7	58.7	-25.5	46.7	37.5	74	15.3	V
17949.4	58.4	-25.5	46.7	37.2	74	15.6	V
17970.3	58.4	-25.5	46.7	37.2	74	15.6	H
17964.8	58.2	-25.5	46.7	37	74	15.8	H
17930.7	58.1	-25.5	46.7	36.9	74	15.9	V
17940	58.1	-25.5	46.7	36.9	74	15.9	H

Channel 56

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17962	58.7	-25.5	46.7	37.5	74	15.3	V
17962.6	58.2	-25.5	46.7	37	74	15.8	V
17985.7	58.1	-25.5	46.7	36.9	74	15.9	H
17933.5	57.9	-25.5	46.7	36.7	74	16.1	H
17939	57.9	-25.5	46.7	36.7	74	16.1	V
17940.6	57.9	-25.5	46.7	36.7	74	16.1	H

Channel 64

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17992.3	58.3	-25.5	46.7	37.1	74	15.7	V
17997.2	58.3	-25.5	46.7	37.1	74	15.7	H
17866.9	58.2	-25.5	46.7	37	74	15.8	V
17969.2	58.2	-25.5	46.7	37	74	15.8	V
17990.7	58.1	-25.5	46.7	36.9	74	15.9	H
5350.4	53.6	-16.9	34	36.5	74	20.4	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17960.4	58.9	-25.5	46.7	37.7	74	15.1	H
17991.2	58.7	-25.5	46.7	37.5	74	15.3	H
17992.3	58.6	-25.5	46.7	37.4	74	15.4	V
17984.6	58.1	-25.5	46.7	36.9	74	15.9	H
17870.2	58	-25.5	46.7	36.8	74	16	H
5450.9	51.7	-16.8	34.2	34.3	74	22.3	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17974.7	58.5	-25.5	46.7	37.3	74	15.5	H
17997.8	58.3	-25.5	46.7	37.1	74	15.7	H
17960.4	58.2	-25.5	46.7	37	74	15.8	H
17981.3	58.1	-25.5	46.7	36.9	74	15.9	H
17919.7	57.9	-25.5	46.7	36.7	74	16.1	V
17952.7	57.9	-25.5	46.7	36.7	74	16.1	V

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17972.5	58.4	-25.5	46.7	37.2	74	15.6	V
17968.1	58.3	-25.5	46.7	37.1	74	15.7	H
17863.6	58.1	-25.5	46.7	36.9	74	15.9	V
17939.5	58.1	-25.5	46.7	36.9	74	15.9	V
17958.2	58.1	-25.5	46.7	36.9	74	15.9	H
5725.4	53.1	-16.3	34.3	35.1	74	20.9	V

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17996.7	58.8	-25.5	46.7	37.6	74	15.2	H
17954.3	58.7	-25.5	46.7	37.5	74	15.3	H
17981.3	58.6	-25.5	46.7	37.4	74	15.4	V
17848.8	58.5	-25.5	46.7	37.3	74	15.5	H
17842.7	58	-25.5	46.7	36.8	74	16	H
5150	60.4	-17	33.7	43.7	74	13.6	V

Channel 46

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17983.5	59.3	-25.5	46.7	38.1	74	14.7	H
17966.5	58.6	-25.5	46.7	37.4	74	15.4	H
17956.5	58.5	-25.5	46.7	37.3	74	15.5	H
17965.9	58.3	-25.5	46.7	37.1	74	15.7	H
17987.9	58	-25.5	46.7	36.8	74	16	V
17961.5	57.8	-25.5	46.7	36.6	74	16.2	V

Channel 54

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17936.2	59.5	-25.5	46.7	38.3	74	14.5	V
17953.8	58.5	-25.5	46.7	37.3	74	15.5	H
17979.1	58.3	-25.5	46.7	37.1	74	15.7	H
17985.7	58.3	-25.5	46.7	37.1	74	15.7	V
17962.6	58.2	-25.5	46.7	37	74	15.8	H
17882.3	58	-25.5	46.7	36.8	74	16	V

Channel 62

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17980.2	59.7	-25.5	46.7	38.5	74	14.3	V
17953.8	58.9	-25.5	46.7	37.7	74	15.1	H
17941.7	58.5	-25.5	46.7	37.3	74	15.5	H
17957.1	58.5	-25.5	46.7	37.3	74	15.5	V
17908.7	58.4	-25.5	46.7	37.2	74	15.6	H
5355.8	61.5	-16.9	34	44.4	74	12.5	V

Channel 102

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17997.2	59	-25.5	46.7	37.8	74	15	V
17975.8	58.5	-25.5	46.7	37.3	74	15.5	H
17875.7	58.3	-25.5	46.7	37.1	74	15.7	H
17976.9	58.2	-25.5	46.7	37	74	15.8	V
17944.5	58.1	-25.5	46.7	36.9	74	15.9	V
5458.2	57	-16.8	34.2	39.6	74	17	V

Channel 118

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17956.5	58.8	-25.5	46.7	37.6	74	15.2	V
17990.7	58.7	-25.5	46.7	37.5	74	15.3	H
17985.2	58.6	-25.5	46.7	37.4	74	15.4	H
17870.8	58.5	-25.5	46.7	37.3	74	15.5	V
17899.9	58.3	-25.5	46.7	37.1	74	15.7	H
17967.5	58.3	-25.5	46.7	37.1	74	15.7	V

Channel 134

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17941.2	58.6	-25.5	46.7	37.4	74	15.4	H
17987.9	58.6	-25.5	46.7	37.4	74	15.4	V
17982.4	58.5	-25.5	46.7	37.3	74	15.5	V
17984.6	58.4	-25.5	46.7	37.2	74	15.6	V
17901.5	58.3	-25.5	46.7	37.1	74	15.7	V
5739.2	58.6	-16.3	34.3	40.6	74	15.4	V

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17976.9	59.4	-25.5	46.7	38.2	74	14.6	H
17973.6	59.1	-25.5	46.7	37.9	74	14.9	H
17956	58.9	-25.5	46.7	37.7	74	15.1	V
17950.5	58.8	-25.5	46.7	37.6	74	15.2	H
17954.9	58.8	-25.5	46.7	37.6	74	15.2	V
5140.2	62.9	-17	33.7	46.2	74	11.1	V

Channel 58

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17859.2	58.5	-25.5	46.7	37.3	74	15.5	V
17948.3	58.5	-25.5	46.7	37.3	74	15.5	H
17964.8	58.5	-25.5	46.7	37.3	74	15.5	V
17854.8	58.4	-25.5	46.7	37.2	74	15.6	H
17997.8	58.3	-25.5	46.7	37.1	74	15.7	V
5356.3	62.9	-16.9	34	45.8	74	11.1	V

Channel 106

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	59.2	-25.5	46.7	38	74	14.8	H
17879.5	58.7	-25.5	46.7	37.5	74	15.3	V
17943.3	58.6	-25.5	46.7	37.4	74	15.4	V
17945.5	58.5	-25.5	46.7	37.3	74	15.5	H
17973	58.3	-25.5	46.7	37.1	74	15.7	H
5458.5	56.6	-16.8	34.2	39.2	74	17.4	V

A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is $U = 3.10\text{dB}$, $k=2$.

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.69	Fig.70	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.69	Fig.70	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: PASS

Test graphs as below:

Traffic:

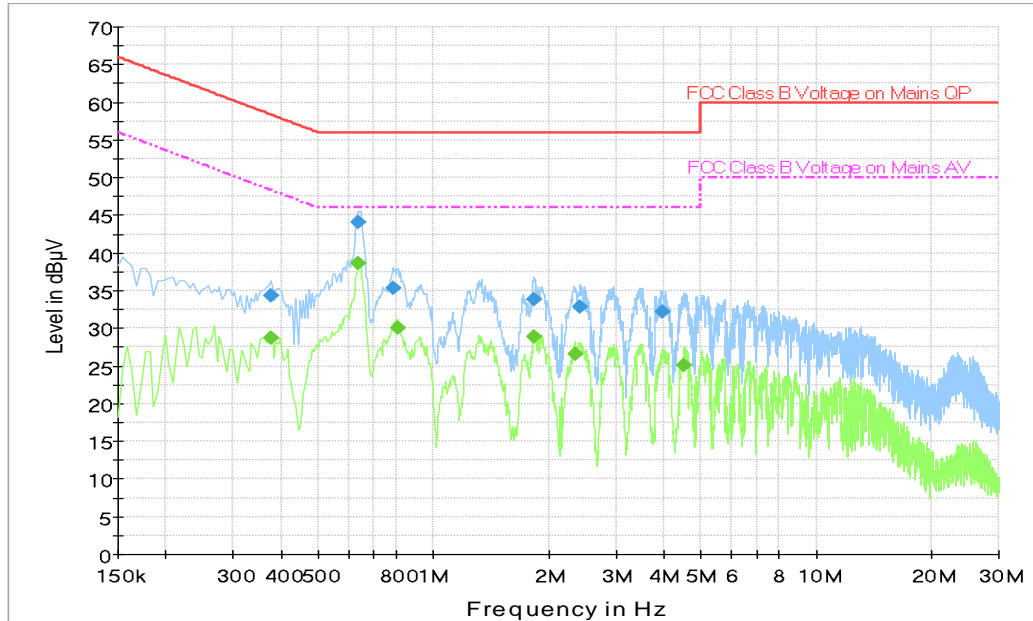


Fig.69 Conducted Emission (802.11a, Ch36, TX)

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.375000	34.3	1000.	9.000	N	19.9	24.1	58.4
0.636000	44.1	1000.	9.000	N	19.9	11.9	56.0
0.784500	35.3	1000.	9.000	N	19.8	20.7	56.0
1.833000	33.9	1000.	9.000	N	19.8	22.1	56.0
2.418000	32.9	1000.	9.000	N	19.8	23.1	56.0
3.975000	32.1	1000.	9.000	N	19.8	23.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.375000	28.7	1000.	9.000	N	19.9	19.7	48.4
0.636000	38.6	1000.	9.000	N	19.9	7.4	46.0
0.807000	30.1	1000.	9.000	N	19.8	15.9	46.0
1.824000	28.9	1000.	9.000	N	19.8	17.1	46.0
2.341500	26.7	1000.	9.000	N	19.8	19.3	46.0
4.519500	25.1	1000.	9.000	N	19.8	20.9	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables

Idle:

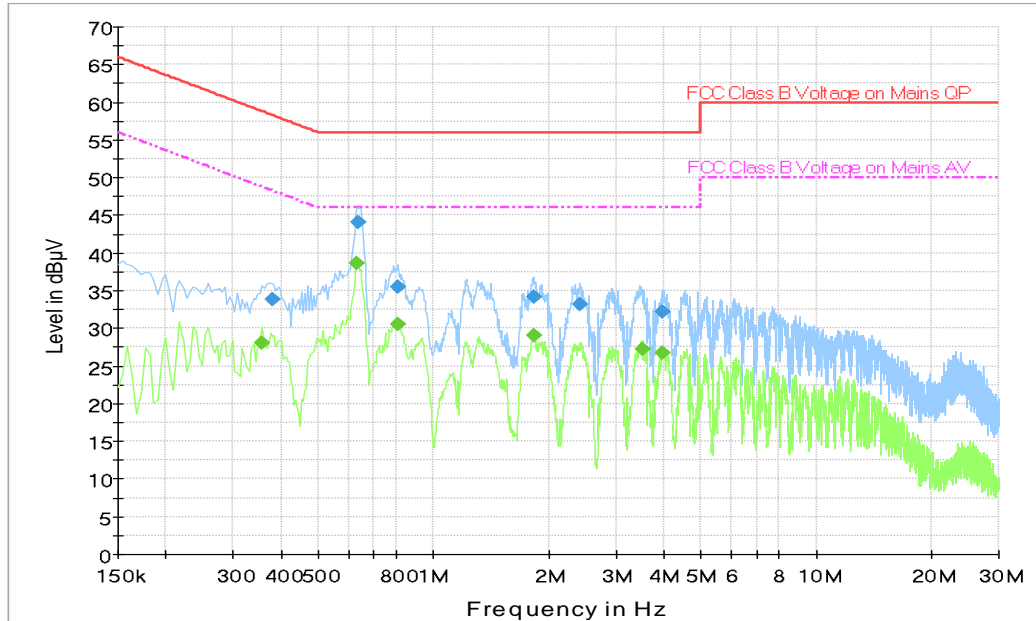


Fig.70 Conducted Emission(802.11a, IDLE)

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.379500	33.8	1000.	9.000	N	19.9	24.5	58.3
0.636000	44.1	1000.	9.000	N	19.9	11.9	56.0
0.807000	35.5	1000.	9.000	N	19.8	20.5	56.0
1.824000	34.1	1000.	9.000	N	19.8	21.9	56.0
2.418000	33.1	1000.	9.000	N	19.8	22.9	56.0
3.979500	32.2	1000.	9.000	N	19.8	23.8	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.357000	28.1	1000.	9.000	N	19.9	20.7	48.8
0.631500	38.6	1000.	9.000	N	19.9	7.4	46.0
0.807000	30.5	1000.	9.000	N	19.8	15.5	46.0
1.828500	29.0	1000.	9.000	N	19.8	17.0	46.0
3.511500	27.3	1000.	9.000	N	19.8	18.7	46.0
3.979500	26.7	1000.	9.000	N	19.8	19.3	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables

A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

Measurement Result:

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.71	16.5	P
	5200 MHz	Fig.72	16.5	P
	5240 MHz	Fig.73	16.5	P
802.11n HT20	5180 MHz	Fig.74	17.54	P
	5200 MHz	Fig.75	17.54	P
	5240 MHz	Fig.76	17.54	P
802.11ac HT20	5180 MHz	Fig.77	17.55	P
	5200 MHz	Fig.78	17.54	P
	5240 MHz	Fig.79	17.54	P
802.11n HT40	5190 MHz	Fig.80	35.86	P
	5230 MHz	Fig.81	35.86	P
802.11ac	5190 MHz	Fig.82	35.84	P

HT40	5230 MHz	Fig.83	35.84	P
802.11ac HT80	5210 MHz	Fig.84	74.85	P

Conclusion: PASS
Test graphs as below:



Fig.71 99% Occupied bandwidth (802.11a, 5180MHz)

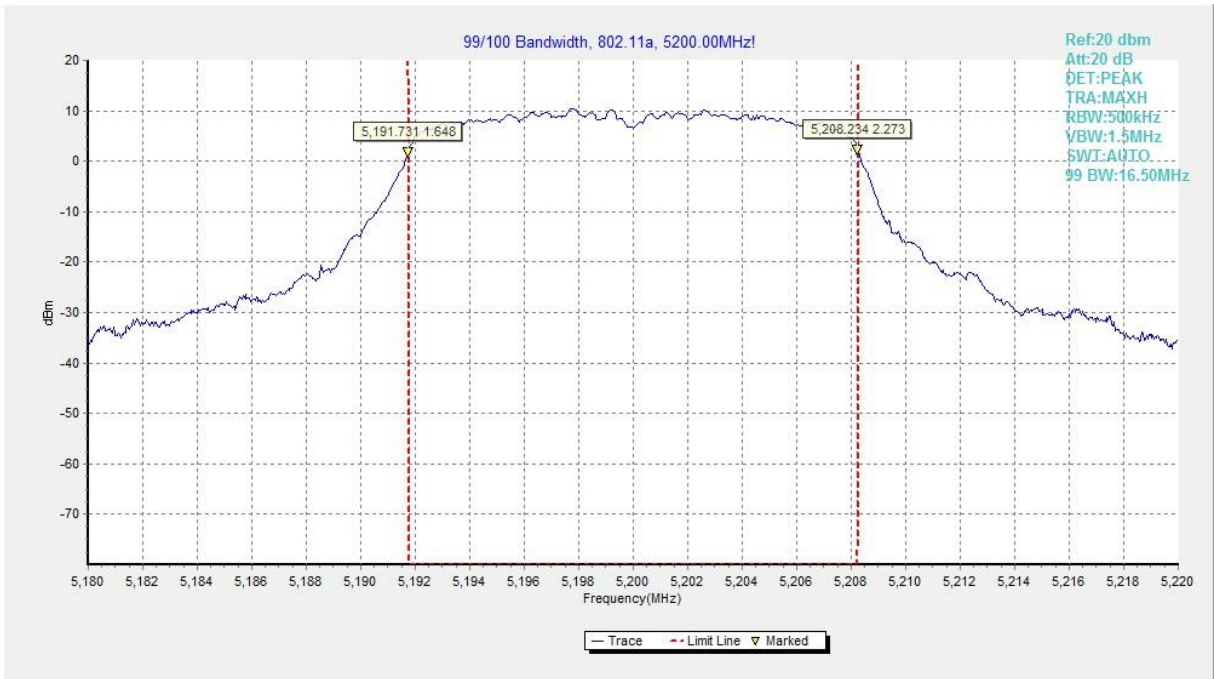


Fig.72 99% Occupied bandwidth (802.11a, 5200MHz)

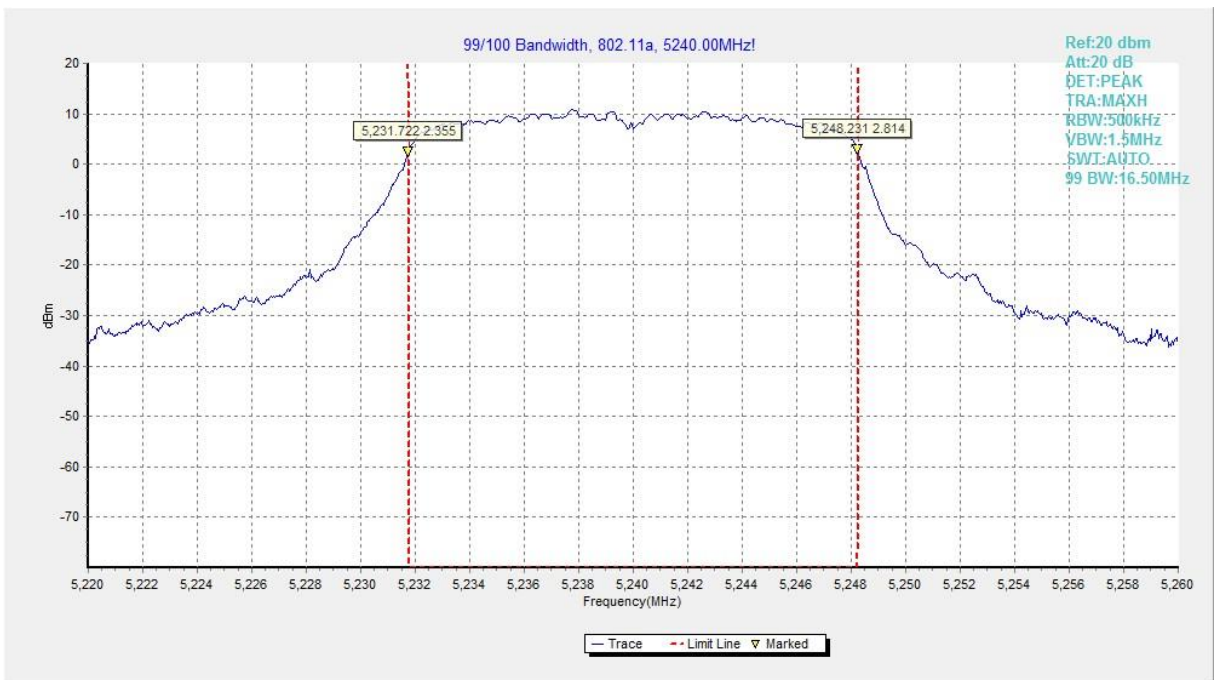


Fig.73 99% Occupied bandwidth (802.11a, 5240MHz)

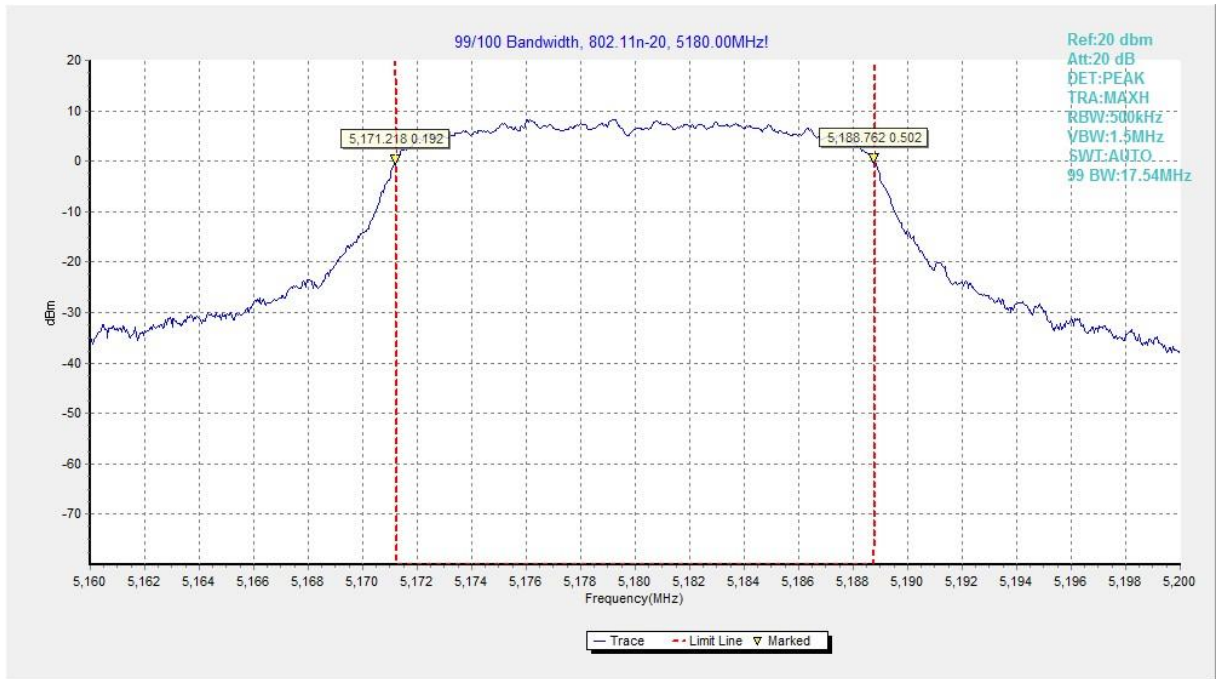


Fig.74 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

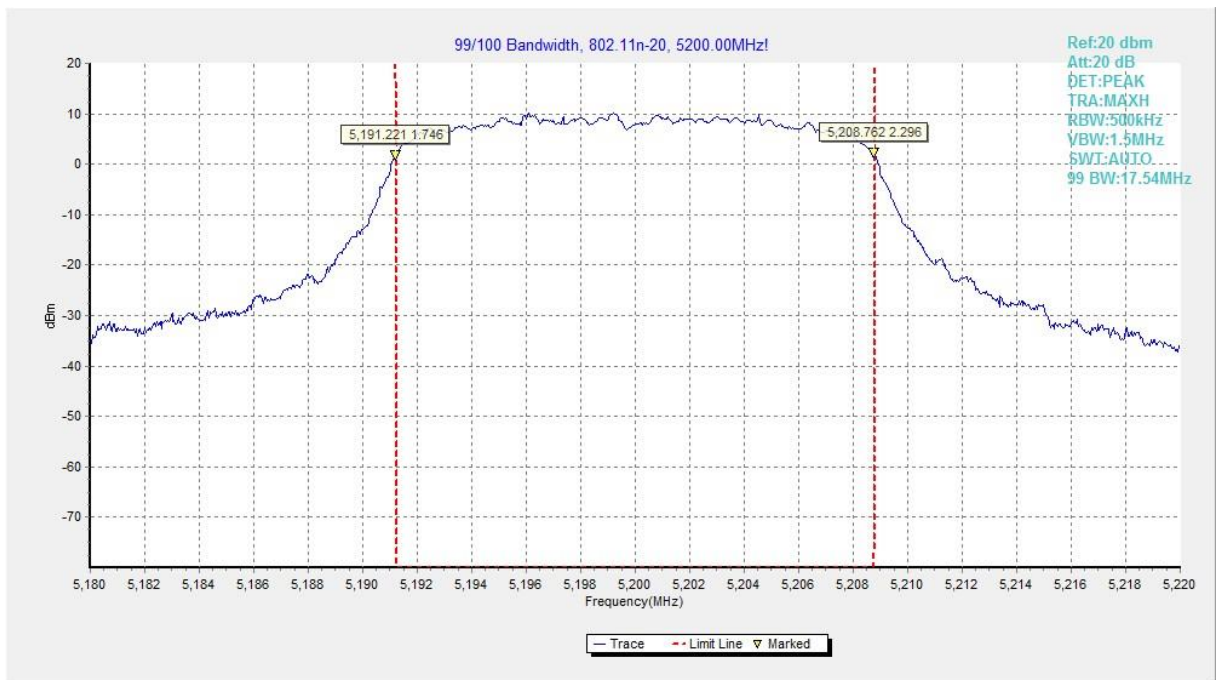


Fig.75 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

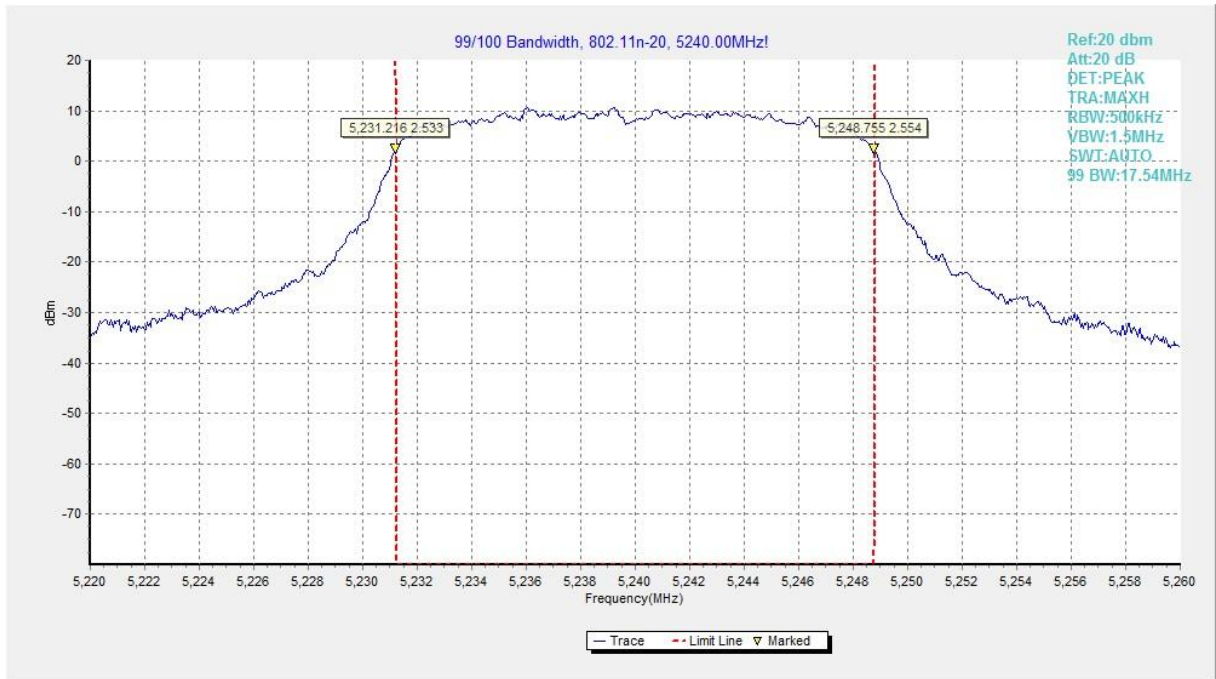


Fig.76 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

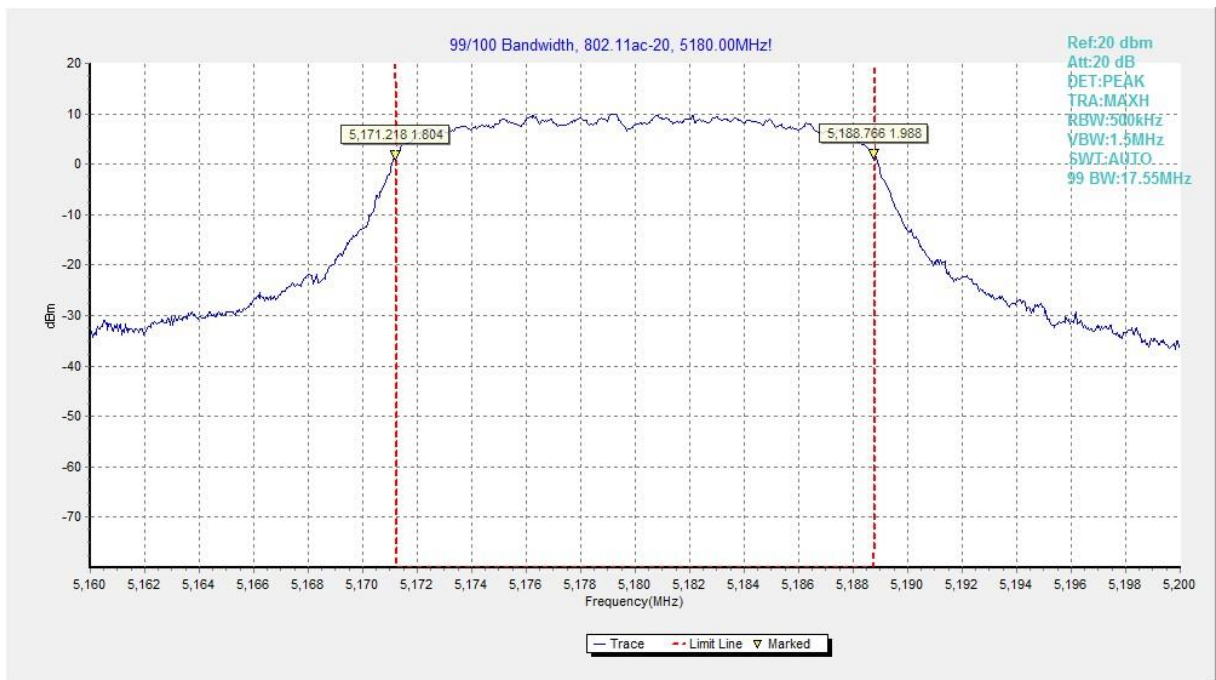


Fig.77 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)

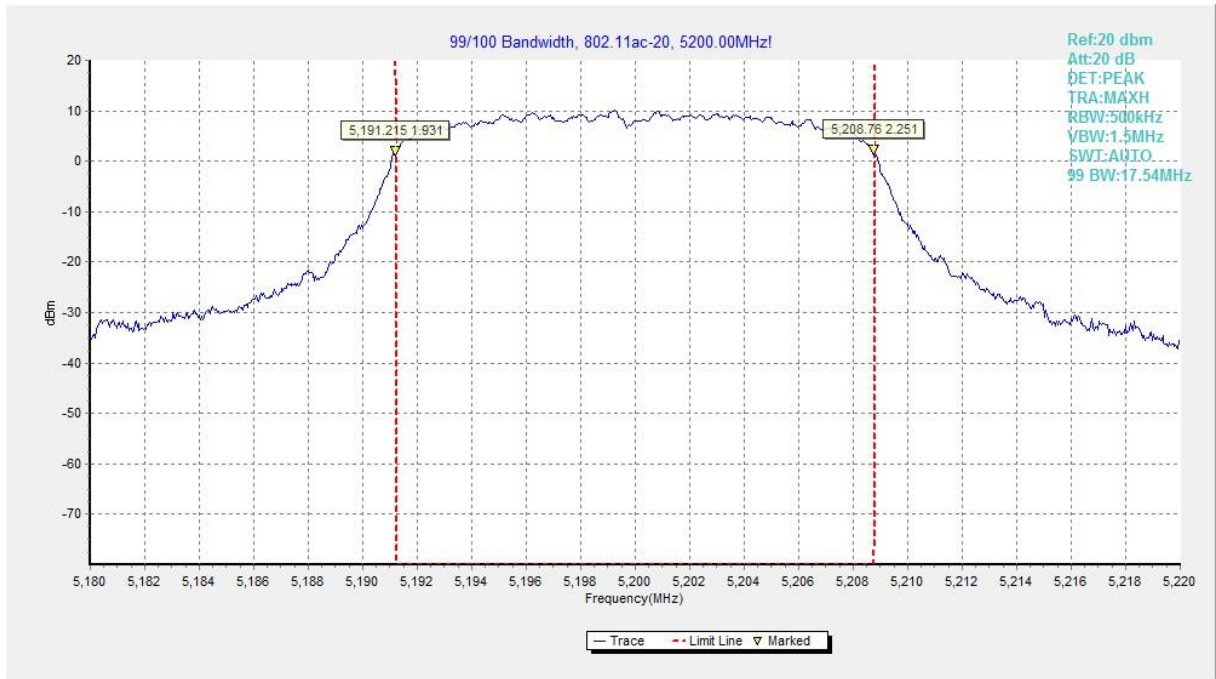


Fig.78 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)

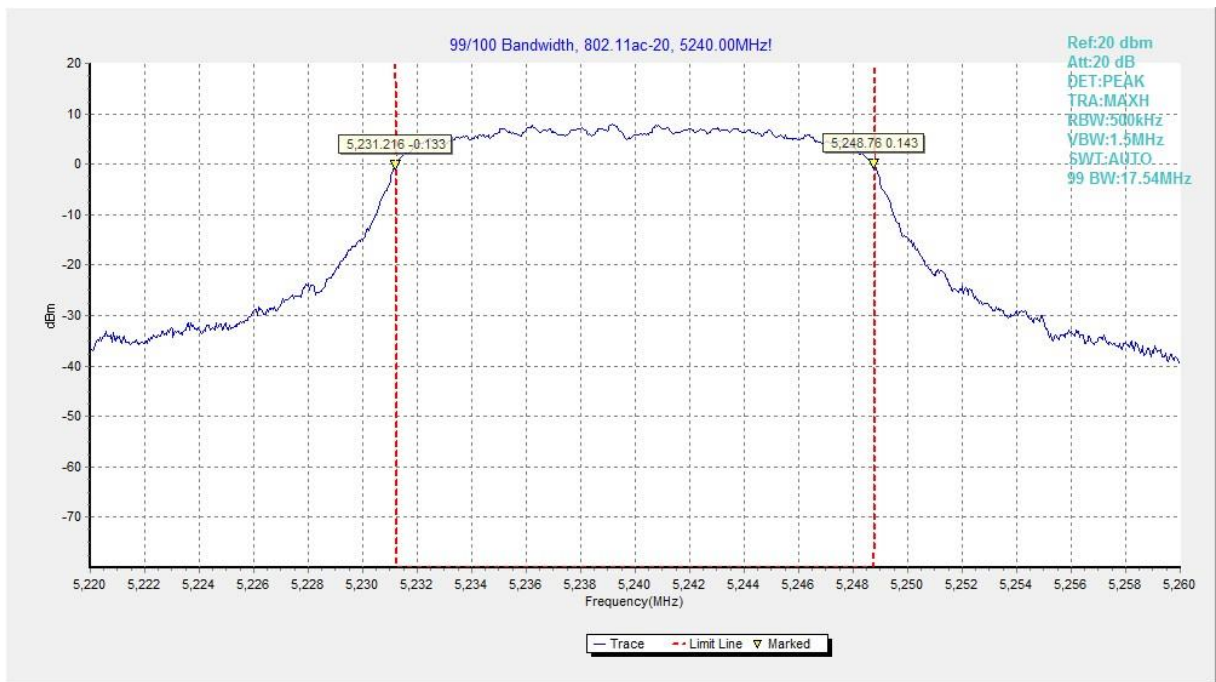


Fig.79 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)

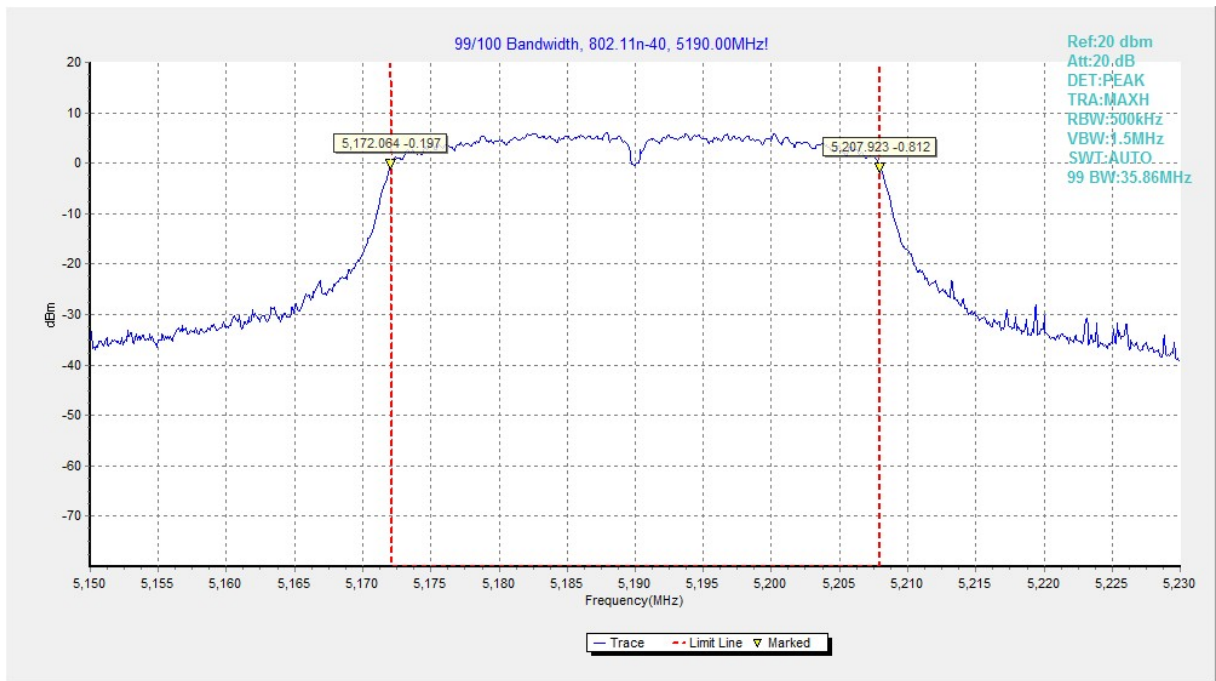


Fig.80 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

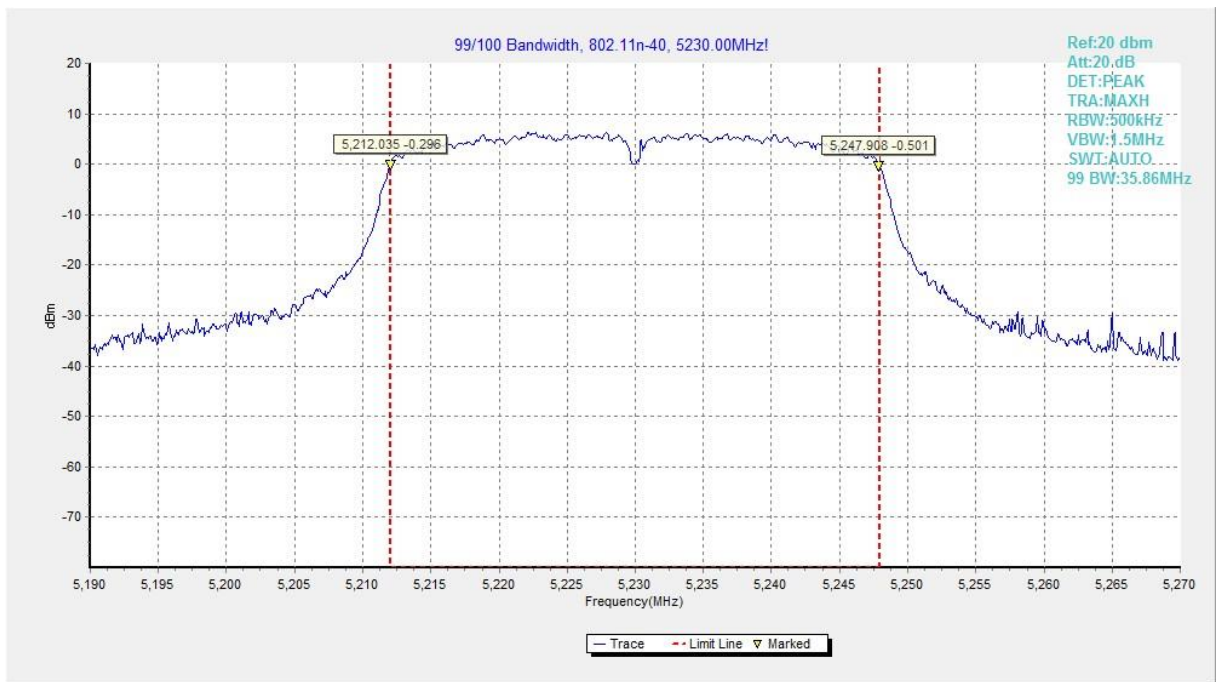


Fig.81 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

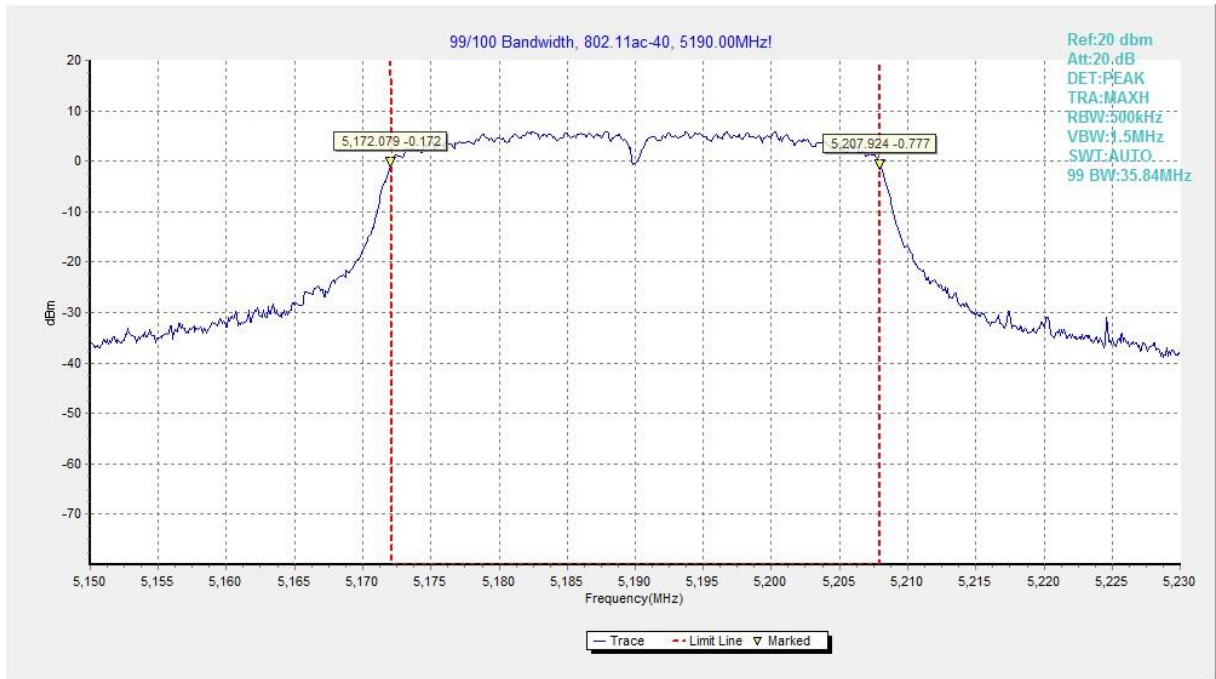


Fig.82 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)

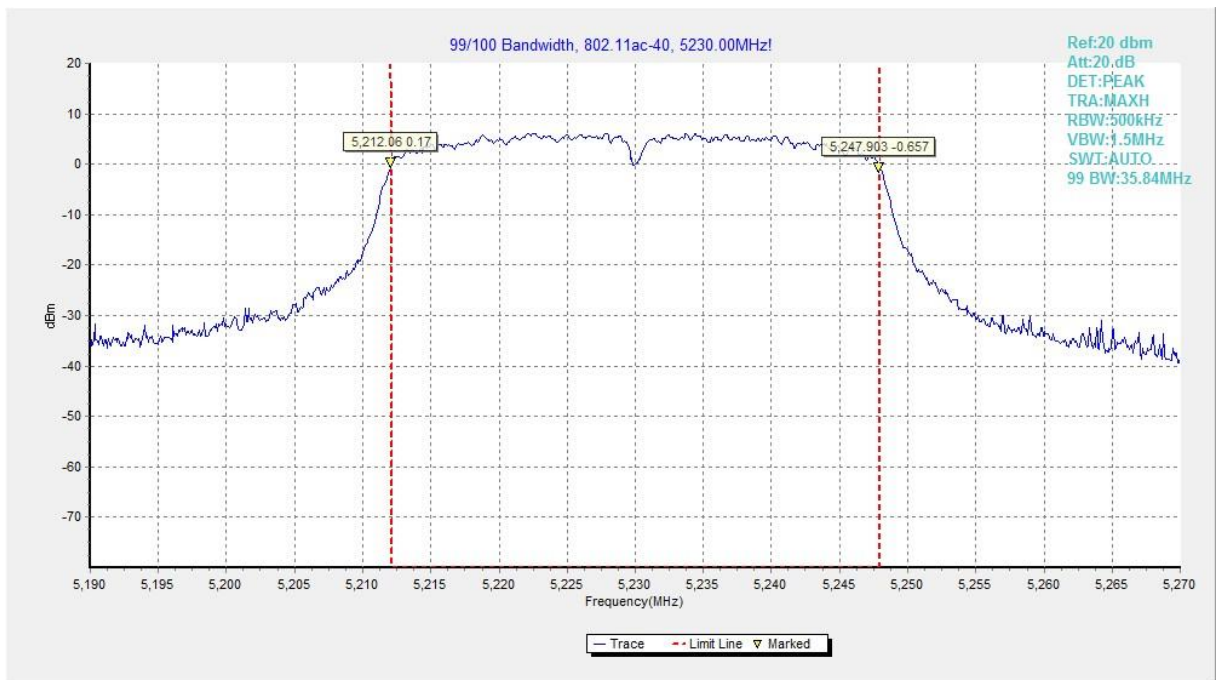


Fig.83 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)

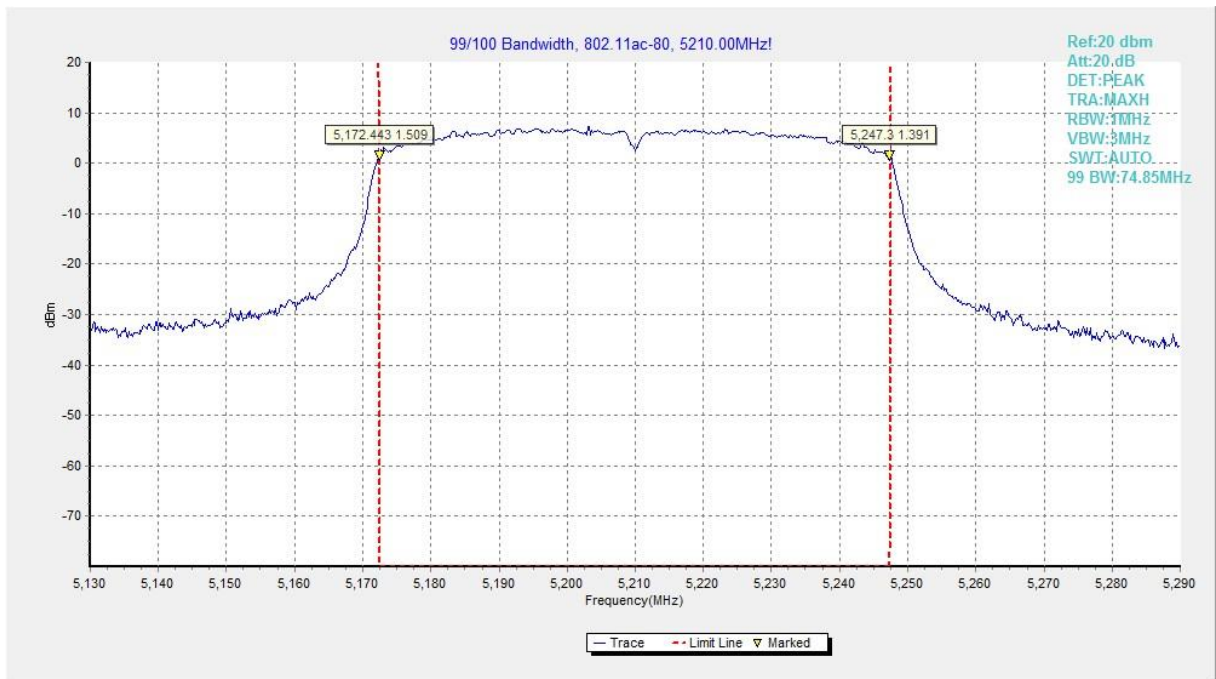


Fig.84 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> 	
<hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2005</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

*** END OF REPORT BODY ***