

RE - Power-5.45GHz-5.50GHz

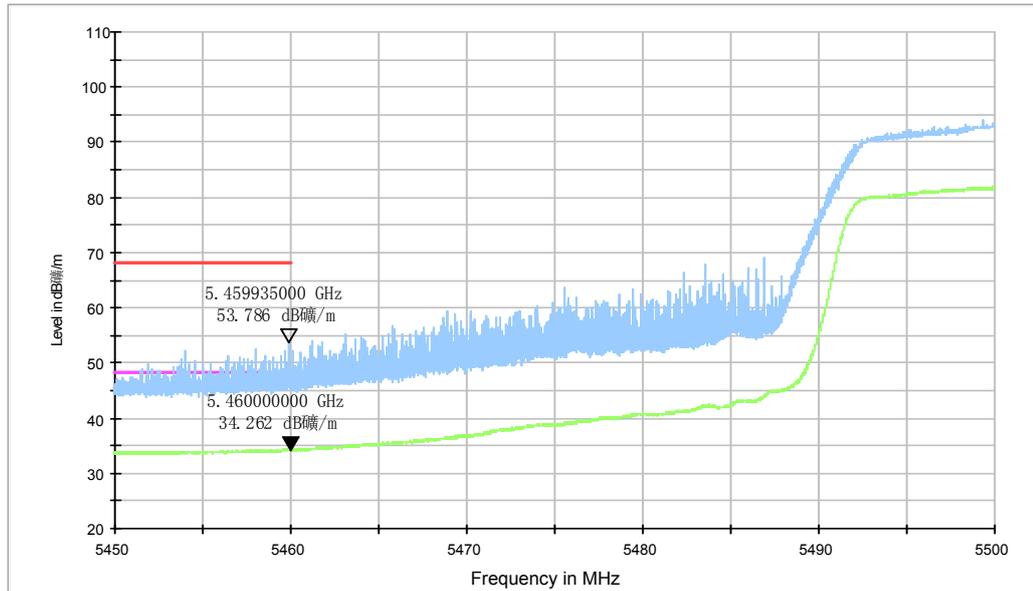


Fig. 78 Band Edges (802.11ac-HT40, 5510MHz)

RE - Power-5.65GHz-5.75GHz

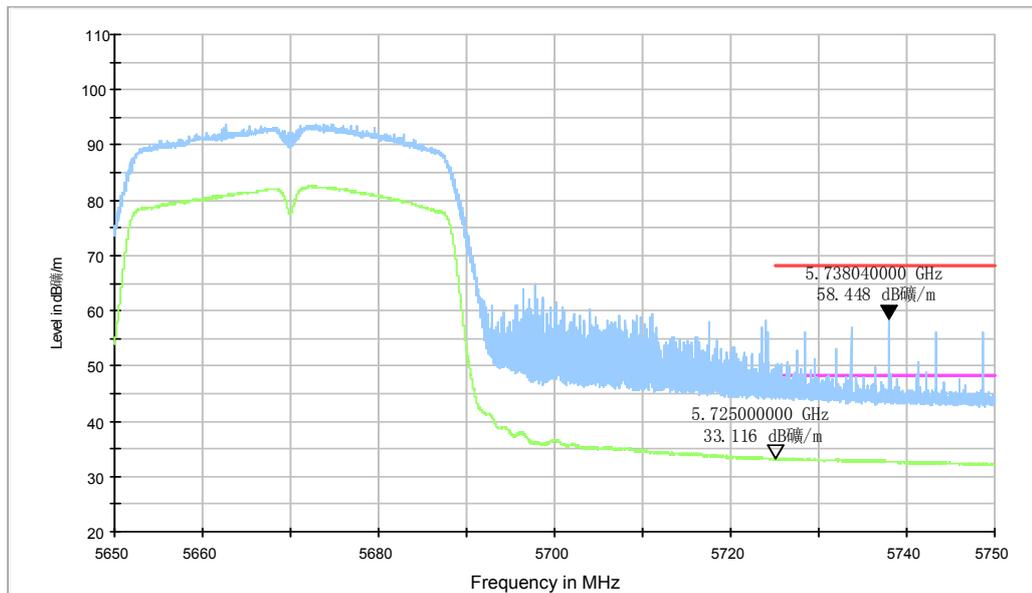


Fig. 79 Band Edges (802.11ac-HT40, 5670MHz)

RE - Power-5.45GHz-5.50GHz

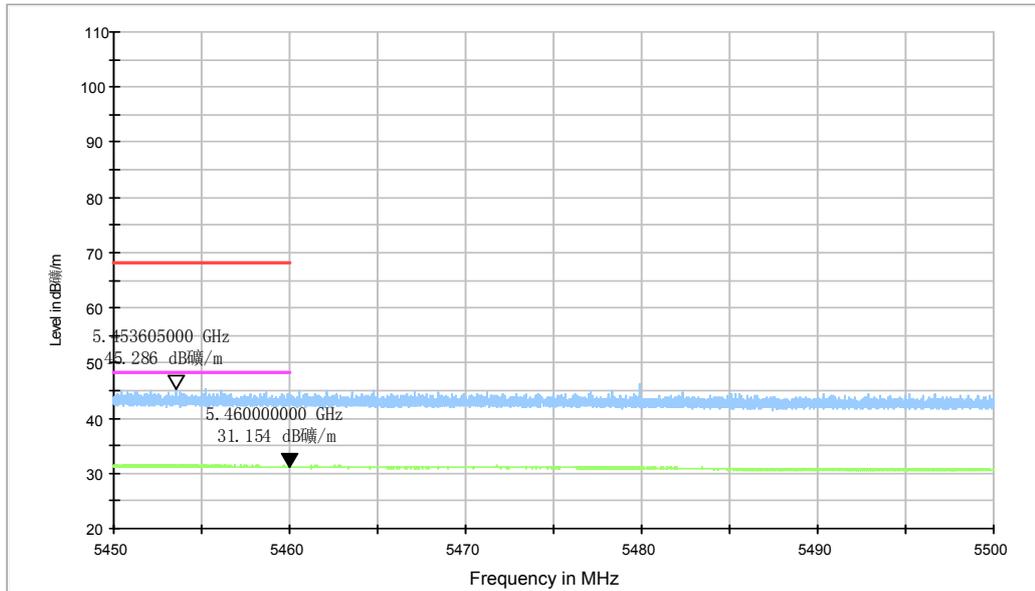


Fig. 80 Band Edges (802.11ac-HT40, 5710MHz)

RE - Power-5.810GHz-5.925GHz

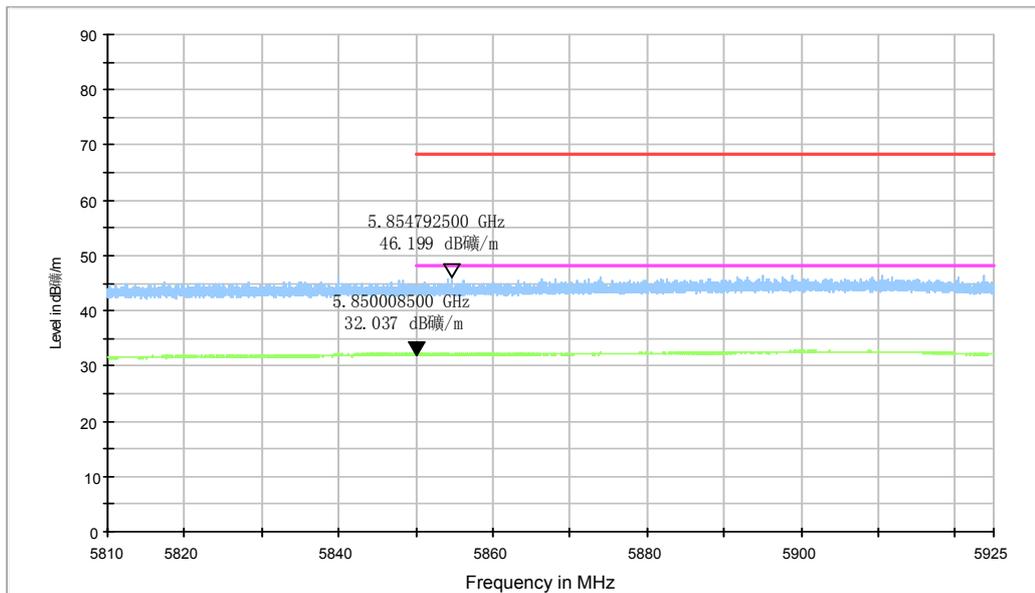


Fig. 81 Band Edges (802.11ac-HT40, 5710MHz)

RE - Power-5.125GHz-5.175GHz

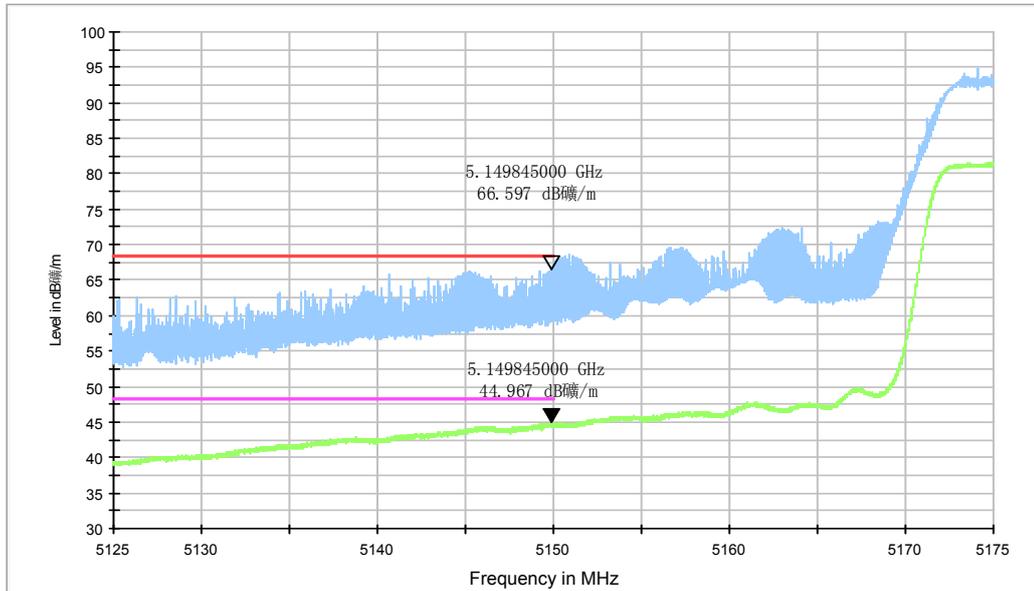


Fig. 82 Band Edges (802.11ac-HT80, 5210MHz)

RE - Power-5.325GHz-5.375GHz

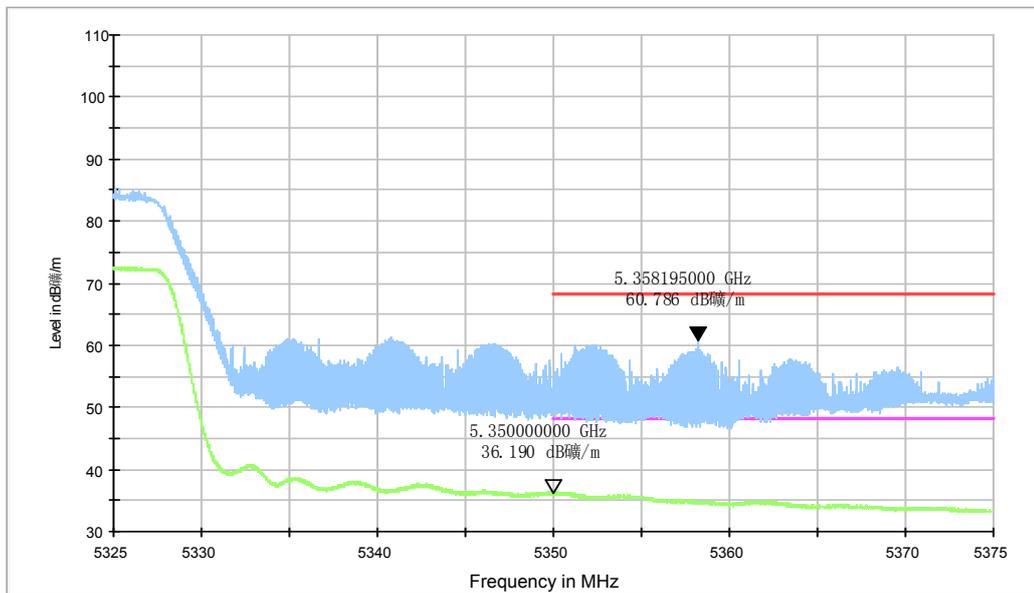


Fig. 83 Band Edges (802.11ac-HT80, 5290MHz)

RE - Power-5.45GHz-5.50GHz

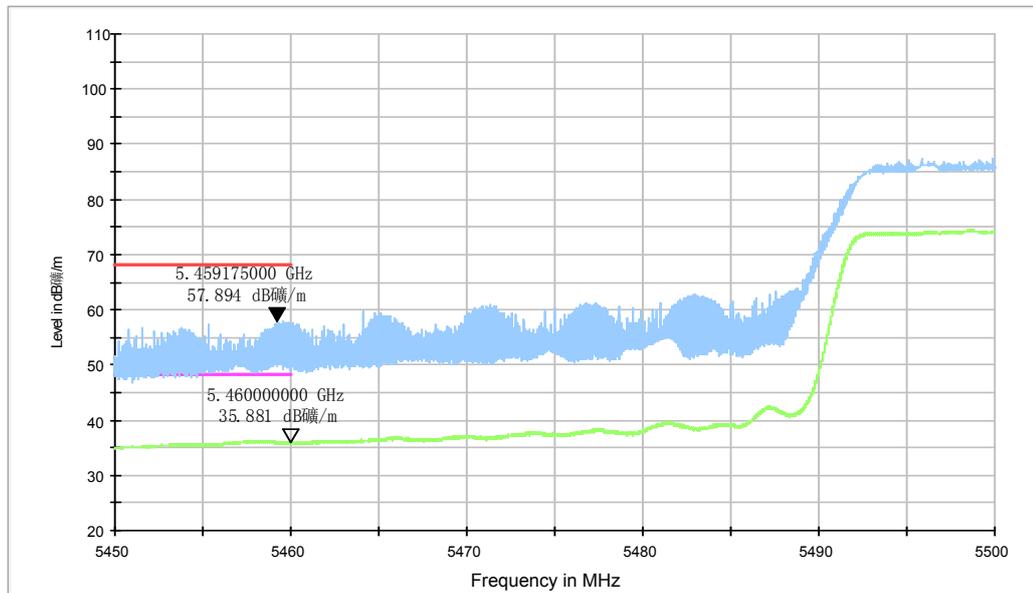


Fig. 84 Band Edges (802.11ac-HT80, 5530MHz)

RE - Power-5.45GHz-5.50GHz

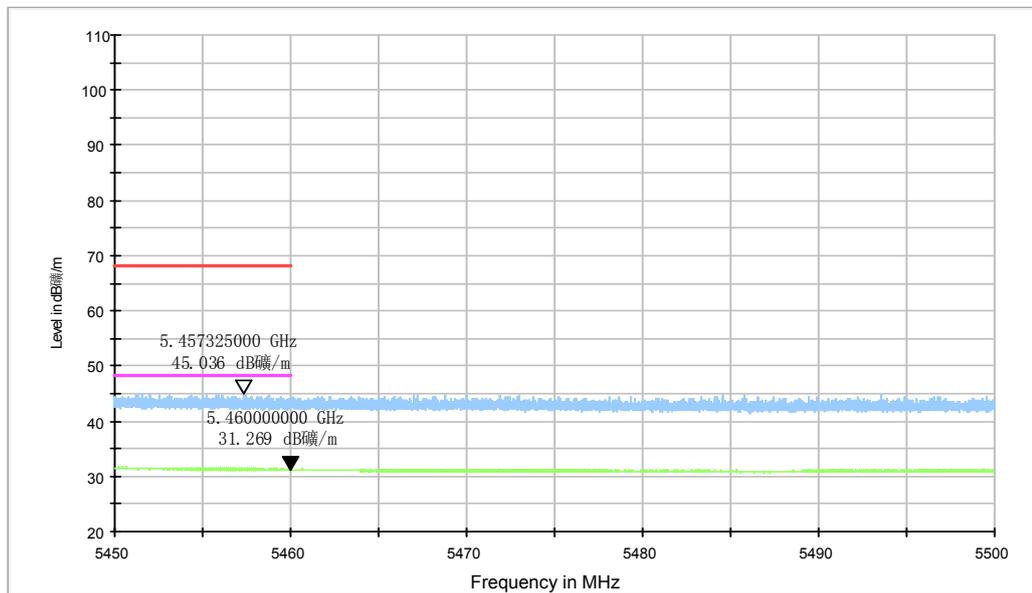


Fig. 85 Band Edges (802.11ac-HT40, 5690MHz)

RE - Power-5.810GHz-5.925GHz

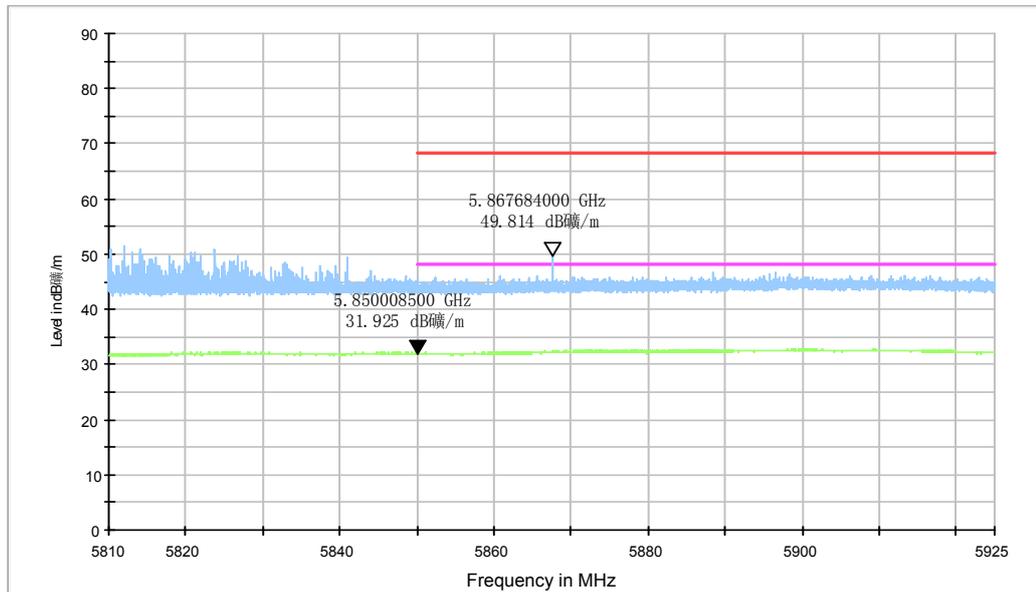


Fig. 86 Band Edges (802.11ac-HT40, 5690MHz)

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 uncertainty:

Expanded measurement uncertainty for this test item is U =4.32 dB, k=2.

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
		26.5 GHz ~ 40 GHz	---	P
	106(5530MHz)	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 (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)
5146.800	40.6	-34.8	34.2	41.20	48.3	7.7	H
5150.000	41.6	-34.7	34.2	42.13	48.3	6.7	H
10360.500	38.3	-30.0	37.5	30.80	48.3	10.0	H
15540.400	37.0	-27.6	40.1	24.44	48.3	11.3	H
16372.000	37.7	-26.9	41.1	23.51	48.3	10.6	H
16556.800	37.7	-26.8	41.3	23.13	48.3	10.6	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)
5122.000	35.6	-35.0	34.2	36.44	48.3	12.7	H
5298.000	35.0	-35.1	34.3	35.73	48.3	13.3	H
10400.100	38.9	-29.4	37.5	30.86	48.3	9.4	H
15599.800	37.2	-27.5	40.2	24.43	48.3	11.1	H
16946.200	39.0	-27.1	41.7	24.45	48.3	9.3	H
17369.700	38.1	-26.6	41.3	23.36	48.3	10.2	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)
5150.000	36.5	-34.7	34.2	37.05	48.3	11.8	H
5292.400	36.0	-35.1	34.3	36.77	48.3	12.3	H
10480.400	37.7	-31.5	37.6	31.60	48.3	10.6	H
15719.700	36.8	-27.5	40.4	23.89	48.3	11.5	H
16465.500	37.8	-27.2	41.3	23.74	48.3	10.5	H
16939.600	38.8	-27.1	41.7	24.25	48.3	9.5	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)
5212.000	36.6	-34.3	34.3	36.59	48.3	11.7	H
5290.000	34.9	-35.2	34.3	35.75	48.3	13.4	H
10520.000	33.7	-32.0	37.6	28.07	48.3	14.6	H
15780.200	36.2	-27.6	40.4	23.38	48.3	12.1	H
16949.500	39.0	-27.0	41.7	24.33	48.3	9.3	H
17624.900	38.4	-26.5	41.2	23.66	48.3	9.9	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)
5248.400	36.0	-34.6	34.3	36.30	48.3	12.3	H
5308.800	35.0	-35.0	34.4	35.63	48.3	13.3	H
10559.600	33.5	-30.7	37.6	26.50	48.3	14.8	H
15839.600	36.6	-27.5	40.5	23.62	48.3	11.7	H
17025.400	38.7	-26.5	41.7	23.53	48.3	9.6	H
17919.700	38.4	-26.1	41.3	23.23	48.3	9.9	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)
5364.400	34.1	-34.3	34.4	34.01	48.3	14.2	H
5373.600	34.2	-34.1	34.4	33.83	48.3	14.1	H
10639.900	33.4	-29.0	37.7	24.74	48.3	14.9	H
15959.500	36.3	-27.1	40.7	22.71	48.3	12.0	H
16412.700	37.6	-27.1	41.2	23.52	48.3	10.7	H
17264.100	38.3	-26.7	41.4	23.65	48.3	10.0	H

Channel 100

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)
5452.800	36.8	-33.1	34.5	35.49	48.3	11.5	H
5459.600	36.8	-33.3	34.5	35.62	48.3	11.5	H
10999.600	34.7	-30.1	37.8	27.01	48.3	13.6	H
16499.600	37.6	-27.0	41.3	23.32	48.3	10.7	H
17630.400	38.3	-26.5	41.2	23.56	48.3	10.0	H
17910.900	38.4	-26.1	41.3	23.27	48.3	9.9	H

Channel 120

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)
5561.200	35.4	-34.7	34.6	35.54	48.3	12.9	H
5648.000	36.9	-33.1	34.7	35.30	48.3	11.4	H
11199.800	33.6	-30.3	38.0	25.97	48.3	14.7	H
16799.900	37.8	-26.8	41.5	23.01	48.3	10.5	H
16941.800	38.8	-27.1	41.7	24.22	48.3	9.5	H
17307.000	38.2	-26.8	41.4	23.65	48.3	10.1	H

Channel 140

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)
5725.200	38.7	-33.6	34.8	37.52	48.3	9.6	H
5726.400	38.5	-33.6	34.8	37.33	48.3	9.8	H
11400.000	36.0	-30.4	38.1	28.19	48.3	12.3	H
17100.200	38.3	-26.1	41.6	22.80	48.3	10.0	H
17022.100	38.8	-26.6	41.7	23.72	48.3	9.5	H
17979.100	38.2	-25.8	41.3	22.78	48.3	10.1	H



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)
5147.200	38.1	-34.8	34.2	38.69	48.3	10.2	H
5150.000	38.7	-34.7	34.2	39.19	48.3	9.6	H
10359.400	39.8	-30.0	37.5	32.29	48.3	8.5	H
15540.400	39.1	-27.6	40.1	26.55	48.3	9.2	H
16452.300	37.9	-27.2	41.2	23.84	48.3	10.4	H
17004.500	38.9	-26.7	41.7	23.85	48.3	9.4	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)
5139.600	36.4	-34.9	34.2	37.08	48.3	11.9	H
5264.800	36.2	-34.8	34.3	36.72	48.3	12.1	H
10400.100	38.6	-29.4	37.5	30.56	48.3	9.7	H
15599.800	37.2	-27.5	40.2	24.43	48.3	11.1	H
16929.700	38.8	-27.0	41.6	24.19	48.3	9.5	H
17049.600	38.7	-26.4	41.6	23.44	48.3	9.6	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)
5148.400	36.0	-34.8	34.2	36.51	48.3	12.3	H
5277.600	35.8	-35.0	34.3	36.50	48.3	12.5	H
10478.200	37.1	-31.4	37.6	30.96	48.3	11.2	H
15719.700	36.8	-27.5	40.4	23.91	48.3	11.5	H
16289.500	37.4	-26.6	41.0	22.89	48.3	10.9	H
16970.400	38.8	-26.9	41.7	24.06	48.3	9.5	H

Channel 52

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)
5202.000	37.3	-34.3	34.3	37.34	48.3	11.0	H
5299.600	36.2	-35.1	34.3	36.93	48.3	12.1	H
10520.000	33.7	-32.0	37.6	28.06	48.3	14.6	H
15780.200	36.2	-27.6	40.4	23.34	48.3	12.1	H
16949.500	38.9	-27.0	41.7	24.24	48.3	9.4	H
17615.000	38.2	-26.5	41.2	23.47	48.3	10.1	H

Channel 56

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)
5256.000	34.1	-34.7	34.3	34.51	48.3	14.2	H
5296.800	34.3	-35.1	34.3	35.02	48.3	14.0	H
10559.600	33.4	-30.7	37.6	26.47	48.3	14.9	H
15839.600	36.6	-27.5	40.5	23.64	48.3	11.7	H
17060.600	38.6	-26.3	41.6	23.28	48.3	9.7	H
17940.600	38.4	-26.0	41.3	23.16	48.3	9.9	H

Channel 64

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)
5370.000	34.1	-34.1	34.4	33.81	48.3	14.2	H
5374.000	34.1	-34.1	34.4	33.79	48.3	14.2	H
10639.900	33.4	-29.0	37.7	24.73	48.3	14.9	H
15959.500	36.3	-27.1	40.7	22.77	48.3	12.0	H
16985.800	38.4	-26.8	41.7	23.52	48.3	9.9	H
17348.800	38.1	-26.6	41.3	23.43	48.3	10.2	H

Channel 100

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)
5455.200	35.7	-33.2	34.5	34.45	48.3	12.6	H
5458.000	35.8	-33.2	34.5	34.54	48.3	12.5	H
10999.600	34.8	-30.1	37.8	27.07	48.3	13.5	H
16499.600	37.6	-27.0	41.3	23.32	48.3	10.7	H
17612.800	38.2	-26.5	41.2	23.48	48.3	10.1	H
17920.800	38.5	-26.1	41.3	23.29	48.3	9.8	H

Channel 120

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)
5459.600	35.4	-33.3	34.5	34.19	48.3	12.9	H
5693.600	36.8	-33.0	34.8	34.99	48.3	11.5	H
11199.800	33.7	-30.3	38.0	26.04	48.3	14.6	H
16799.900	37.7	-26.8	41.5	22.97	48.3	10.6	H
16944.000	39.0	-27.1	41.7	24.44	48.3	9.3	H
17655.700	38.1	-26.5	41.2	23.37	48.3	10.2	H

Channel 140

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)
5725.560	37.9	-33.6	34.8	36.71	48.3	10.4	H
5728.000	37.7	-33.7	34.8	36.48	48.3	10.6	H
11400.000	36.1	-30.4	38.1	28.31	48.3	12.2	H
17100.200	38.4	-26.1	41.6	22.83	48.3	9.9	H
17000.100	38.6	-26.7	41.7	23.62	48.3	9.7	H
17962.600	38.4	-25.9	41.3	23.04	48.3	9.9	H



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Channel 38

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)
5147.200	45.4	-34.8	34.2	45.95	54	8.6	H
5150.000	47.3	-34.7	34.2	47.84	54	6.7	H
10380.300	34.5	-29.7	37.5	26.68	48.3	13.8	H
15570.100	37.2	-27.6	40.2	24.59	48.3	11.1	H
16955.000	39.0	-27.0	41.7	24.30	48.3	9.3	H
17624.900	38.5	-26.5	41.2	23.71	48.3	9.8	H

Channel 46

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)
5135.600	35.3	-35.0	34.2	36.02	48.3	13.0	H
5320.000	34.4	-34.9	34.4	34.91	48.3	13.9	H
10459.500	34.0	-30.9	37.6	27.35	48.3	14.3	H
15690.000	36.8	-27.4	40.3	23.94	48.3	11.5	H
16945.100	38.9	-27.1	41.7	24.33	48.3	9.4	H
17617.200	38.3	-26.5	41.2	23.55	48.3	10.0	H

Channel 54

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)
5203.600	36.6	-34.3	34.3	36.56	48.3	11.7	H
5322.400	34.8	-34.9	34.4	35.38	48.3	13.5	H
10539.800	33.7	-31.3	37.6	27.41	48.3	14.6	H
15809.900	36.6	-27.6	40.5	23.77	48.3	11.7	H
16928.600	38.8	-27.0	41.6	24.22	48.3	9.5	H
17622.700	38.5	-26.5	41.2	23.71	48.3	9.8	H

Channel 62

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)
5350.000	40.1	-34.6	34.4	40.30	48.3	8.2	H
5351.200	39.8	-34.5	34.4	39.94	48.3	8.5	H
10620.100	33.1	-28.8	37.6	24.33	48.3	15.2	H
15929.800	36.4	-27.2	40.6	22.97	48.3	11.9	H
17013.300	38.8	-26.6	41.7	23.74	48.3	9.5	H
17890.000	38.4	-26.2	41.3	23.38	48.3	9.9	H

Channel 102

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)
5459.200	37.6	-33.2	34.5	36.42	48.3	10.7	H
5460.000	37.8	-33.3	34.5	36.60	48.3	10.5	H
11020.500	34.4	-30.7	37.8	27.34	48.3	13.9	H
16530.400	37.5	-26.9	41.3	23.10	48.3	10.8	H
17621.600	38.3	-26.5	41.2	23.56	48.3	10.0	H
17919.700	38.3	-26.1	41.3	23.14	48.3	10.0	H

Channel 118

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)
5447.600	35.4	-33.1	34.5	34.04	48.3	12.9	H
5676.400	37.1	-32.7	34.8	35.06	48.3	11.2	H
11180.000	33.9	-30.1	37.9	26.04	48.3	14.4	H
16770.200	37.6	-26.7	41.5	22.83	48.3	10.7	H
17084.800	38.5	-26.2	41.6	23.01	48.3	9.8	H
17338.900	38.2	-26.7	41.4	23.54	48.3	10.1	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)
5725.200	36.7	-33.6	34.8	35.45	48.3	11.6	H
5727.200	36.6	-33.6	34.8	35.42	48.3	11.7	H
11339.500	34.9	-30.5	38.1	27.36	48.3	13.4	H
17010.000	38.8	-26.6	41.7	23.76	48.3	9.5	H
16926.400	38.8	-27.0	41.6	24.21	48.3	9.5	H
17962.600	38.2	-25.9	41.3	22.86	48.3	10.1	H

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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)
5144.800	38.7	-34.8	34.2	39.30	48.3	9.6	H
5150.000	39.5	-34.7	34.2	39.98	48.3	8.8	H
10357.200	37.7	-30.0	37.5	30.23	48.3	10.6	H
15540.400	36.9	-27.6	40.1	24.42	48.3	11.4	H
16946.200	39.0	-27.1	41.7	24.37	48.3	9.3	H
17895.500	38.4	-26.2	41.3	23.36	48.3	9.9	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)
5121.200	35.8	-35.0	34.2	36.57	48.3	12.5	H
5268.000	36.8	-34.9	34.3	37.38	48.3	11.5	H
10400.100	37.6	-29.4	37.5	29.53	48.3	10.7	H
15599.800	37.2	-27.5	40.2	24.45	48.3	11.1	H
16941.800	39.0	-27.1	41.7	24.36	48.3	9.3	H
17896.600	38.6	-26.2	41.3	23.49	48.3	9.7	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)
5179.600	37.2	-34.3	34.2	37.23	48.3	11.1	H
5270.800	37.2	-34.9	34.3	37.81	48.3	11.1	H
10476.000	36.5	-31.3	37.6	30.31	48.3	11.8	H
15719.700	36.8	-27.5	40.4	23.96	48.3	11.5	H
16944.000	38.9	-27.1	41.7	24.36	48.3	9.4	H
17895.500	38.6	-26.2	41.3	23.47	48.3	9.7	H

Channel 52

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)
5222.800	36.5	-34.4	34.3	36.61	48.3	11.8	H
5290.000	34.7	-35.2	34.3	35.57	48.3	13.6	H
10517.800	36.9	-32.1	37.6	31.33	48.3	11.4	H
15780.200	36.2	-27.6	40.4	23.38	48.3	12.1	H
16948.400	38.9	-27.0	41.7	24.31	48.3	9.4	H
17617.200	38.3	-26.5	41.2	23.59	48.3	10.0	H

Channel 56

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)
5237.600	37.8	-34.4	34.3	37.96	48.3	10.5	H
5312.000	36.3	-35.0	34.4	36.95	48.3	12.0	H
10559.600	36.2	-30.7	37.6	29.21	48.3	12.1	H
15839.600	36.6	-27.5	40.5	23.57	48.3	11.7	H
16951.700	38.9	-27.0	41.7	24.28	48.3	9.4	H
17894.400	38.5	-26.2	41.3	23.38	48.3	9.8	H

Channel 64

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)
5372.400	34.2	-34.1	34.4	33.87	48.3	14.1	H
5373.600	34.2	-34.1	34.4	33.88	48.3	14.1	H
10638.800	35.7	-29.0	37.7	27.00	48.3	12.6	H
15959.500	36.3	-27.1	40.7	22.74	48.3	12.0	H
16953.900	38.9	-27.0	41.7	24.29	48.3	9.4	H
17904.300	38.4	-26.2	41.3	23.32	48.3	9.9	H

Channel 100

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)
5451.200	36.4	-33.1	34.5	34.99	48.3	11.9	H
5455.600	36.3	-33.2	34.5	35.04	48.3	12.0	H
10999.600	34.9	-30.1	37.8	27.22	48.3	13.4	H
16499.600	37.6	-27.0	41.3	23.33	48.3	10.7	H
17576.500	38.1	-26.4	41.2	23.28	48.3	10.2	H
17890.000	38.4	-26.2	41.3	23.35	48.3	9.9	H

Channel 120

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)
5573.600	36.2	-34.5	34.6	36.15	48.3	12.1	H
5623.200	37.4	-33.7	34.7	36.39	48.3	10.9	H
11199.800	34.0	-30.3	38.0	26.31	48.3	14.3	H
16799.900	37.7	-26.8	41.5	22.93	48.3	10.6	H
17613.900	38.2	-26.5	41.2	23.45	48.3	10.1	H
17919.700	38.4	-26.1	41.3	23.23	48.3	9.9	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)
5726.000	37.0	-33.6	34.8	35.74	48.3	11.3	H
5729.200	36.8	-33.7	34.8	35.63	48.3	11.5	H
11400.000	36.0	-30.4	38.1	28.29	48.3	12.3	H
17100.200	38.4	-26.1	41.6	22.88	48.3	9.9	H
16949.500	38.8	-27.0	41.7	24.19	48.3	9.5	H
17301.500	38.2	-26.8	41.4	23.64	48.3	10.1	H

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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)
5148.400	40.3	-34.8	34.2	40.82	48.3	8.0	H
5150.000	41.2	-34.7	34.2	41.76	48.3	7.1	H
10380.300	34.6	-29.7	37.5	26.76	48.3	13.7	H
15570.100	37.1	-27.6	40.2	24.51	48.3	11.2	H
16944.000	39.0	-27.1	41.7	24.39	48.3	9.3	H
17623.800	38.4	-26.5	41.2	23.61	48.3	9.9	H

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)
5177.600	37.1	-34.3	34.2	37.16	48.3	11.2	H
5269.600	38.1	-34.9	34.3	38.63	48.3	10.2	H
10419.900	34.5	-29.8	37.5	26.71	48.3	13.8	H
15629.500	37.0	-27.4	40.3	24.18	48.3	11.3	H
16947.300	39.0	-27.1	41.7	24.35	48.3	9.3	H
17898.800	38.6	-26.2	41.3	23.46	48.3	9.7	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)
5237.200	35.0	-34.4	34.3	35.13	48.3	13.3	H
5305.600	34.7	-35.0	34.3	35.43	48.3	13.6	H
10547.500	34.6	-31.1	37.6	28.02	48.3	13.7	H
15809.900	36.5	-27.6	40.5	23.66	48.3	11.8	H
16948.400	38.9	-27.0	41.7	24.32	48.3	9.4	H
17916.400	38.4	-26.1	41.3	23.27	48.3	9.9	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)
5372.000	34.2	-34.1	34.4	33.95	48.3	14.1	H
5374.000	34.2	-34.1	34.4	33.89	48.3	14.1	H
10619.000	34.2	-28.8	37.6	25.37	48.3	14.1	H
15929.800	36.4	-27.2	40.6	23.00	48.3	11.9	H
16944.000	38.9	-27.1	41.7	24.33	48.3	9.4	H
17617.200	38.4	-26.5	41.2	23.60	48.3	9.9	H

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)
5453.600	36.3	-33.1	34.5	34.96	48.3	12.0	H
5460.000	36.4	-33.3	34.5	35.15	48.3	11.9	H
11020.500	34.7	-30.7	37.8	27.54	48.3	13.7	H
16530.400	37.4	-26.9	41.3	23.01	48.3	10.9	H
16942.900	38.9	-27.1	41.7	24.28	48.3	9.4	H
17897.700	38.6	-26.2	41.3	23.52	48.3	9.7	H



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)
5543.600	35.7	-34.6	34.6	35.76	48.3	12.6	H
5640.800	36.8	-33.3	34.7	35.40	48.3	11.5	H
11180.000	33.7	-30.1	37.9	25.89	48.3	14.6	H
16770.200	37.6	-26.7	41.5	22.83	48.3	10.7	H
17008.900	38.7	-26.7	41.7	23.66	48.3	9.6	H
17947.200	38.3	-26.0	41.3	23.03	48.3	10.0	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)
5728.000	36.1	-33.7	34.8	34.92	48.3	12.2	H
5729.600	36.0	-33.7	34.8	34.88	48.3	12.3	H
11339.500	34.9	-30.5	38.1	27.28	48.3	13.4	H
17010.000	38.7	-26.6	41.7	23.68	48.3	9.6	H
16968.200	38.8	-26.9	41.7	24.06	48.3	9.5	H
17920.800	38.4	-26.1	41.3	23.21	48.3	9.9	H

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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)
5143.200	43.8	-34.9	34.2	44.47	48.3	4.5	H
5150.000	44.9	-34.7	34.2	45.40	48.3	3.4	H
10419.900	34.9	-29.8	37.5	27.10	48.3	13.4	H
15629.500	37.1	-27.4	40.3	24.25	48.3	11.2	H
16948.400	38.9	-27.0	41.7	24.32	48.3	9.4	H
17895.500	38.5	-26.2	41.3	23.40	48.3	9.8	H

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)
5353.200	34.4	-34.5	34.4	34.48	48.3	13.9	H
5361.200	34.4	-34.3	34.4	34.30	48.3	13.9	H
10580.500	33.4	-30.0	37.6	25.78	48.3	14.9	H
15870.400	36.5	-27.4	40.5	23.40	48.3	11.8	H
16946.200	38.9	-27.1	41.7	24.33	48.3	9.4	H
17623.800	38.4	-26.5	41.2	23.62	48.3	9.9	H

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)
5457.200	37.3	-33.2	34.5	36.03	48.3	11.0	H
5457.600	37.3	-33.2	34.5	36.09	48.3	11.0	H
11060.100	34.5	-31.3	37.8	27.95	48.3	13.8	H
16589.800	37.5	-26.6	41.4	22.72	48.3	10.8	H
17623.800	38.4	-26.5	41.2	23.69	48.3	9.9	H
17932.900	38.4	-26.0	41.3	23.19	48.3	9.9	H



PEAK 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)
5142.815	65.9	-34.9	34.2	66.52	74	8.1	H
5148.630	66.7	-34.8	34.2	67.29	74	7.3	H
10359.400	50.9	-30.0	37.5	43.34	68.3	17.4	V
15539.850	52.4	-27.6	40.1	39.93	68.3	15.9	V
16292.800	55.1	-26.6	41.1	40.64	68.3	13.2	H
16654.150	54.8	-26.6	41.4	39.96	68.3	13.5	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)
5108.000	46.2	-35.0	34.2	47.06	68.3	22.1	H
5326.000	45.7	-34.9	34.4	46.18	68.3	22.6	H
10401.200	52.1	-29.4	37.5	43.98	68.3	16.2	V
15599.800	51.3	-27.5	40.2	38.55	68.3	17.0	H
16602.450	54.9	-26.6	41.4	40.06	68.3	13.4	V
16806.500	56.3	-26.8	41.5	41.54	68.3	12.0	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)
5152.200	48.2	-34.7	34.2	48.68	68.3	20.1	H
5297.600	47.3	-35.1	34.3	48.08	68.3	21.0	H
10479.850	49.5	-31.5	37.6	43.34	68.3	18.8	V
15720.250	50.9	-27.5	40.4	38.02	68.3	17.4	H
16362.650	55.2	-26.9	41.1	40.98	68.3	13.1	V
16982.500	55.4	-26.8	41.7	40.50	68.3	12.9	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)
5189.600	48.7	-34.2	34.3	48.63	68.3	19.6	H
5300.200	47.3	-35.1	34.3	48.06	68.3	21.0	H
10520.000	46.2	-32.0	37.6	40.55	68.3	22.1	V
15780.200	50.2	-27.6	40.4	37.34	68.3	18.1	H
16997.350	55.1	-26.7	41.7	40.18	68.3	13.2	H
17511.600	55.5	-26.3	41.2	40.62	68.3	12.8	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)
5212.600	47.4	-34.3	34.3	47.48	68.3	20.9	H
5322.800	45.1	-34.9	34.4	45.60	68.3	23.2	H
10560.150	47.2	-30.6	37.6	40.18	68.3	21.1	V
15840.150	51.9	-27.5	40.5	38.94	68.3	16.4	H
17060.050	55.5	-26.3	41.6	40.13	68.3	12.8	V
17661.200	55.5	-26.5	41.2	40.77	68.3	12.8	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)
5358.255	65.0	-34.4	34.4	65.03	68.3	3.3	H
5365.370	65.0	-34.2	34.4	64.86	68.3	3.3	H
10639.900	47.0	-29.0	37.7	38.34	68.3	21.3	H
15960.050	51.8	-27.1	40.7	38.20	68.3	16.5	V
16923.100	55.8	-27.0	41.6	41.14	68.3	12.5	V
17632.600	55.8	-26.5	41.2	41.08	68.3	12.5	V

Channel 100

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)
5454.910	60.9	-33.2	34.5	59.59	68.3	7.4	H
5456.465	59.4	-33.2	34.5	58.09	68.3	8.9	H
11000.150	47.1	-30.1	37.8	39.47	68.3	21.2	H
16500.150	52.8	-27.0	41.3	38.54	68.3	15.5	H
16973.150	55.8	-26.9	41.7	41.05	68.3	12.5	V
17694.200	55.0	-26.5	41.2	40.28	68.3	13.3	H

Channel 120

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)
5544.000	47.7	-34.6	34.6	47.75	68.3	20.6	H
5645.200	47.5	-33.2	34.7	45.96	68.3	20.8	H
11199.800	46.2	-30.3	38.0	38.57	68.3	22.1	V
16799.900	52.1	-26.8	41.5	37.38	68.3	16.2	V
16952.250	56.1	-27.0	41.7	41.48	68.3	12.2	H
17509.400	55.8	-26.3	41.2	40.90	68.3	12.5	V

Channel 140

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)
5727.385	62.7	-33.6	34.8	61.48	68.3	5.6	H
5730.250	62.8	-33.7	34.8	61.70	68.3	5.5	H
11400.000	48.2	-30.4	38.1	40.45	68.3	20.1	H
17100.200	52.7	-26.1	41.6	37.12	68.3	15.6	V
17512.150	55.7	-26.3	41.2	40.83	68.3	12.6	H
17936.750	55.1	-26.0	41.3	39.84	68.3	13.2	H



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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)
5148.325	64.5	-34.8	34.2	65.06	68.3	3.8	H
5149.965	64.4	-34.7	34.2	64.89	68.3	3.9	H
10359.950	54.0	-30.0	37.5	46.49	68.3	14.3	V
15539.850	50.1	-27.6	40.1	37.59	68.3	18.2	V
16350.550	54.3	-26.8	41.1	39.96	68.3	14.0	V
16924.750	55.2	-27.0	41.6	40.60	68.3	13.1	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)
5131.800	47.5	-35.0	34.2	48.30	68.3	20.8	H
5276.200	47.1	-35.0	34.3	47.77	68.3	21.2	H
10400.100	52.1	-29.4	37.5	43.98	68.3	16.2	H
15599.800	51.1	-27.5	40.2	38.40	68.3	17.2	V
16062.900	52.4	-27.5	40.8	39.06	68.3	15.9	V
16569.450	54.9	-26.7	41.4	40.27	68.3	13.4	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)
5149.000	47.0	-34.8	34.2	47.56	68.3	21.3	H
5321.800	46.2	-34.9	34.4	46.77	68.3	22.1	H
10479.850	51.3	-31.5	37.6	45.15	68.3	17.0	V
15720.250	51.6	-27.5	40.4	38.73	68.3	16.7	H
16453.400	54.5	-27.2	41.2	40.42	68.3	13.8	H
16907.150	55.7	-27.0	41.6	41.07	68.3	12.6	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)
5143.200	45.9	-34.9	34.2	46.57	68.3	22.4	H
5338.000	45.2	-34.8	34.4	45.63	68.3	23.1	H
10520.000	46.0	-32.0	37.6	40.43	68.3	22.3	V
15780.200	51.0	-27.6	40.4	38.13	68.3	17.3	V
16994.600	55.9	-26.7	41.7	40.98	68.3	12.4	H
17964.250	55.6	-25.9	41.3	40.22	68.3	12.7	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)
5205.800	47.5	-34.3	34.3	47.53	68.3	20.8	H
5336.600	46.9	-34.8	34.4	47.34	68.3	21.4	V
10560.150	46.6	-30.6	37.6	39.58	68.3	21.7	H
15840.150	50.9	-27.5	40.5	37.91	68.3	17.4	H
16984.150	55.8	-26.8	41.7	40.94	68.3	12.5	H
17617.750	56.0	-26.5	41.2	41.23	68.3	12.3	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)
5355.680	61.0	-34.5	34.4	61.01	68.3	7.3	H
5369.675	61.0	-34.2	34.4	60.80	68.3	7.3	H
10639.900	46.4	-29.0	37.7	37.68	68.3	21.9	V
15960.050	50.7	-27.1	40.7	37.19	68.3	17.6	V
17201.950	55.7	-26.4	41.5	40.60	68.3	12.6	H
17557.800	55.5	-26.4	41.2	40.73	68.3	12.8	H

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)
5455.875	63.0	-33.2	34.5	61.70	68.3	5.3	H
5456.855	59.2	-33.2	34.5	57.89	68.3	9.1	H
11000.150	46.3	-30.1	37.8	38.66	68.3	22.0	V
16500.150	52.3	-27.0	41.3	38.00	68.3	16.0	H
17032.000	55.6	-26.5	41.7	40.43	68.3	12.7	V
17876.800	55.3	-26.3	41.3	40.34	68.3	13.0	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)
5428.600	45.5	-33.3	34.4	44.38	68.3	22.8	H
5723.800	46.1	-33.6	34.8	44.85	68.3	22.2	H
11199.800	46.7	-30.3	38.0	39.00	68.3	21.6	V
16799.900	52.5	-26.8	41.5	37.72	68.3	15.8	H
17111.750	55.9	-26.0	41.6	40.31	68.3	12.4	V
17897.700	55.6	-26.2	41.3	40.49	68.3	12.7	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)
5725.480	64.0	-33.6	34.8	62.80	68.3	4.3	H
5725.870	63.8	-33.6	34.8	62.55	68.3	4.5	H
11400.000	47.8	-30.4	38.1	40.01	68.3	20.5	H
17100.200	53.4	-26.1	41.6	37.89	68.3	14.9	H
17541.300	55.2	-26.4	41.2	40.35	68.3	13.1	H
17856.450	55.3	-26.4	41.3	40.43	68.3	13.0	H



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Channel 38

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)
5145.755	72.2	-34.8	34.2	72.79	74	1.8	H
5148.900	73.0	-34.8	34.2	73.55	74	1.0	H
10379.750	47.1	-29.7	37.5	39.33	68.3	21.2	V
15570.100	51.8	-27.6	40.2	39.20	68.3	16.5	H
17608.950	56.1	-26.5	41.2	41.33	68.3	12.2	V
17932.900	56.1	-26.0	41.3	40.82	68.3	12.2	V

Channel 46

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)
5137.800	49.2	-34.9	34.2	49.93	68.3	19.1	H
5320.000	49.4	-34.9	34.4	49.92	68.3	18.9	H
10460.050	46.8	-30.9	37.6	40.09	68.3	21.5	V
15690.000	51.2	-27.4	40.3	38.36	68.3	17.1	V
17261.350	56.1	-26.7	41.4	41.39	68.3	12.2	V
17831.700	56.3	-26.5	41.3	41.54	68.3	12.0	V

Channel 54

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)
5139.400	46.1	-34.9	34.2	46.84	68.3	22.2	H
5369.400	46.6	-34.2	34.4	46.39	68.3	21.7	H
10539.800	46.7	-31.3	37.6	40.40	68.3	21.6	H
15809.900	49.9	-27.6	40.5	37.05	68.3	18.4	H
17292.700	56.2	-26.8	41.4	41.62	68.3	12.1	H
17888.350	55.1	-26.2	41.3	40.01	68.3	13.2	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)
5350.110	66.9	-34.6	34.4	67.05	74	7.1	H
5351.790	64.8	-34.5	34.4	64.95	74	9.2	H
10620.100	45.5	-28.8	37.6	36.67	68.3	22.8	V
15929.800	50.7	-27.2	40.6	37.25	68.3	17.6	V
16836.200	55.6	-26.9	41.6	40.90	68.3	12.7	V
17944.450	55.1	-26.0	41.3	39.80	68.3	13.2	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)
5456.050	65.4	-33.2	34.5	64.11	68.3	2.9	H
5458.920	62.8	-33.2	34.5	61.52	68.3	5.5	H
11019.950	47.2	-30.7	37.8	40.06	68.3	21.1	V
16529.850	51.9	-26.9	41.3	37.49	68.3	16.4	V
16803.750	55.9	-26.8	41.5	41.20	68.3	12.4	H
17527.550	55.5	-26.4	41.2	40.69	68.3	12.8	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)
5444.800	46.5	-33.1	34.5	45.18	68.3	21.8	H
5747.200	46.2	-34.0	34.9	45.36	68.3	22.1	H
11180.000	46.9	-30.1	37.9	39.09	68.3	21.4	V
16770.200	52.5	-26.7	41.5	37.75	68.3	15.8	H
17071.600	56.1	-26.2	41.6	40.74	68.3	12.2	V
17887.250	55.7	-26.2	41.3	40.61	68.3	12.6	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)
5735.455	57.6	-33.8	34.8	56.55	68.3	10.7	H
5742.530	58.9	-33.9	34.8	57.94	68.3	9.4	H
11340.050	47.0	-30.5	38.1	39.45	68.3	21.3	H
17010.000	53.0	-26.6	41.7	37.96	68.3	15.3	V
17526.450	55.7	-26.4	41.2	40.87	68.3	12.6	V
17945.550	55.7	-26.0	41.3	40.39	68.3	12.6	H

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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)
5146.880	62.1	-34.8	34.2	62.71	68.3	6.2	H
5149.645	62.1	-34.8	34.2	62.68	68.3	6.2	V
10362.150	51.6	-29.9	37.5	44.03	68.3	16.7	H
15539.850	51.8	-27.6	40.1	39.26	68.3	16.5	V
16933.000	55.9	-27.0	41.6	41.32	68.3	12.4	V
17579.800	56.1	-26.4	41.2	41.32	68.3	12.2	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)
5113.200	47.4	-35.0	34.2	48.24	68.3	20.9	H
5273.000	47.3	-34.9	34.3	47.93	68.3	21.0	H
10396.250	52.0	-29.5	37.5	43.94	68.3	16.3	H
15599.800	51.2	-27.5	40.2	38.46	68.3	17.1	V
16896.150	56.2	-27.0	41.6	41.56	68.3	12.1	V
17687.600	56.0	-26.5	41.2	41.26	68.3	12.3	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)
5172.600	47.8	-34.4	34.2	47.95	68.3	20.5	H
5419.600	49.4	-33.4	34.4	48.30	68.3	18.9	H
10480.400	49.7	-31.5	37.6	43.55	68.3	18.6	H
15720.250	51.4	-27.5	40.4	38.49	68.3	16.9	V
16948.950	56.8	-27.0	41.7	42.19	68.3	11.5	H
17078.200	56.1	-26.2	41.6	40.72	68.3	12.2	H

Channel 52

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)
5189.000	48.9	-34.2	34.3	48.81	68.3	19.4	H
5310.000	47.0	-35.0	34.4	47.65	68.3	21.3	V
10520.000	50.2	-32.0	37.6	44.59	68.3	18.1	V
15780.200	50.3	-27.6	40.4	37.42	68.3	18.0	V
16934.650	56.1	-27.0	41.6	41.54	68.3	12.2	V
17474.200	55.5	-26.3	41.2	40.58	68.3	12.8	V

Channel 56

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)
5202.200	49.0	-34.3	34.3	48.99	68.3	19.3	H
5338.800	47.1	-34.8	34.4	47.48	68.3	21.2	H
10556.300	50.2	-30.8	37.6	43.39	68.3	18.1	V
15840.150	50.3	-27.5	40.5	37.27	68.3	18.0	V
17047.950	56.4	-26.4	41.7	41.17	68.3	11.9	H
17654.050	55.4	-26.5	41.2	40.68	68.3	12.9	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)
5350.420	57.1	-34.6	34.4	57.28	68.3	11.2	H
5350.975	56.2	-34.6	34.4	56.36	68.3	12.1	V
10642.650	48.8	-29.0	37.7	40.11	68.3	19.5	H
15960.050	52.0	-27.1	40.7	38.46	68.3	16.3	H
16957.750	56.4	-27.0	41.7	41.74	68.3	11.9	H
17351.550	56.2	-26.6	41.3	41.48	68.3	12.1	H

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)
5455.180	55.6	-33.2	34.5	54.25	68.3	12.7	H
5455.935	55.2	-33.2	34.5	53.91	68.3	13.1	H
11000.150	48.1	-30.1	37.8	40.45	68.3	20.2	V
16500.150	53.2	-27.0	41.3	38.87	68.3	15.1	H
17001.750	55.6	-26.7	41.7	40.61	68.3	12.7	H
17973.600	56.8	-25.9	41.3	41.38	68.3	11.5	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)
5534.800	45.3	-34.5	34.6	45.22	68.3	23.0	H
5671.000	47.0	-32.6	34.7	44.85	68.3	21.3	H
11199.800	47.3	-30.3	38.0	39.59	68.3	21.0	H
16799.900	52.9	-26.8	41.5	38.15	68.3	15.4	H
17078.750	55.3	-26.2	41.6	39.89	68.3	13.0	H
17866.900	55.4	-26.3	41.3	40.43	68.3	12.9	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)
5725.560	62.1	-33.6	34.8	60.86	68.3	6.2	H
5726.860	61.3	-33.6	34.8	60.14	68.3	7.0	H
11400.000	50.4	-30.4	38.1	42.62	68.3	17.9	H
17100.200	52.7	-26.1	41.6	37.14	68.3	15.6	V
17539.100	56.7	-26.4	41.2	41.91	68.3	11.6	H
17925.200	55.4	-26.1	41.3	40.21	68.3	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)
5148.520	65.8	-34.8	34.2	66.37	74	8.2	H
5149.965	66.4	-34.7	34.2	66.94	74	7.6	H
10379.750	48.7	-29.7	37.5	40.88	68.3	19.6	V
15570.100	50.7	-27.6	40.2	38.09	68.3	17.6	V
17012.200	55.6	-26.6	41.7	40.54	68.3	12.7	V
17539.650	55.8	-26.4	41.2	41.02	68.3	12.5	H

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)
5178.800	49.7	-34.3	34.2	49.72	68.3	18.6	H
5319.200	60.1	-34.9	34.4	60.67	68.3	8.2	H
10419.900	47.6	-29.8	37.5	39.82	68.3	20.7	H
15630.050	51.1	-27.4	40.3	38.23	68.3	17.2	V
17112.300	55.4	-26.0	41.6	39.78	68.3	12.9	H
17283.350	55.4	-26.8	41.4	40.82	68.3	12.9	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)
5185.200	48.5	-34.2	34.3	48.39	68.3	19.8	V
5330.200	46.1	-34.8	34.4	46.61	68.3	22.2	V
10539.800	47.1	-31.3	37.6	40.83	68.3	21.2	V
15809.900	50.3	-27.6	40.5	37.45	68.3	18.0	V
16946.750	55.9	-27.1	41.7	41.32	68.3	12.4	H
17459.900	55.7	-26.3	41.2	40.75	68.3	12.6	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)
5358.840	59.8	-34.4	34.4	59.80	68.3	8.5	H
5374.630	59.7	-34.1	34.4	59.33	68.3	8.6	H
10620.100	46.2	-28.8	37.6	37.35	68.3	22.1	H
15929.800	50.5	-27.2	40.6	37.10	68.3	17.8	H
16935.200	56.2	-27.0	41.6	41.58	68.3	12.1	H
17795.950	56.1	-26.6	41.3	41.38	68.3	12.2	H

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)
5457.980	52.4	-33.2	34.5	51.14	68.3	15.9	H
5459.935	53.8	-33.3	34.5	52.57	68.3	14.5	H
11019.950	46.4	-30.7	37.8	39.27	68.3	21.9	V
16529.850	51.6	-26.9	41.3	37.20	68.3	16.7	V
16983.050	55.5	-26.8	41.7	40.59	68.3	12.8	V
17628.750	55.3	-26.5	41.2	40.54	68.3	13.0	H



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)
5529.000	46.3	-34.4	34.5	46.16	68.3	22.0	H
5669.200	47.4	-32.6	34.7	45.28	68.3	20.9	H
11180.000	46.6	-30.1	37.9	38.80	68.3	21.7	V
16770.200	52.4	-26.7	41.5	37.61	68.3	15.9	V
16956.100	56.1	-27.0	41.7	41.44	68.3	12.2	V
17688.150	56.0	-26.5	41.2	41.29	68.3	12.3	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)
5733.670	57.0	-33.8	34.8	55.91	68.3	11.3	H
5738.040	58.4	-33.8	34.8	57.44	68.3	9.9	H
11340.050	47.5	-30.5	38.1	39.88	68.3	20.8	H
17010.000	52.9	-26.6	41.7	37.86	68.3	15.4	V
17278.400	55.6	-26.8	41.4	40.96	68.3	12.7	V
17851.500	55.3	-26.4	41.3	40.37	68.3	13.0	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)
5149.935	66.8	-34.8	34.2	67.31	74.0	7.2	H
5149.845	66.6	-34.8	34.2	67.12	74.0	7.4	H
10418.800	51.5	-29.7	37.5	43.68	68.3	16.8	H
15630.050	51.2	-27.4	40.3	38.35	68.3	17.1	V
17032.000	55.6	-26.5	41.7	40.39	68.3	12.7	V
17941.700	55.7	-26.0	41.3	40.39	68.3	12.6	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)
5352.215	59.9	-34.5	34.4	60.04	68.3	8.4	V
5358.195	60.8	-34.4	34.4	60.79	68.3	7.5	H
10580.500	46.6	-30.0	37.6	38.92	68.3	21.7	H
15869.850	51.2	-27.4	40.5	38.08	68.3	17.1	V
16995.700	55.8	-26.7	41.7	40.85	68.3	12.5	V
17978.550	55.9	-25.9	41.3	40.41	68.3	12.4	H

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)
5459.175	57.9	-33.2	34.5	56.67	68.3	10.4	V
5459.525	57.8	-33.2	34.5	56.61	68.3	10.5	H
11060.100	48.9	-31.3	37.8	42.32	68.3	19.4	H
16589.800	52.2	-26.6	41.4	37.45	68.3	16.1	H
16898.900	56.3	-27.0	41.6	41.62	68.3	12.0	H
17871.850	55.2	-26.3	41.3	40.18	68.3	13.1	V

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

Test Condition:

Voltage (V)	Frequency (Hz)
110	60

Measurement uncertainty:

Expanded measurement uncertainty for this test item is U =3.2dB, 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		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig. 87	Fig. 88	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		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig. 87	Fig. 88	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:

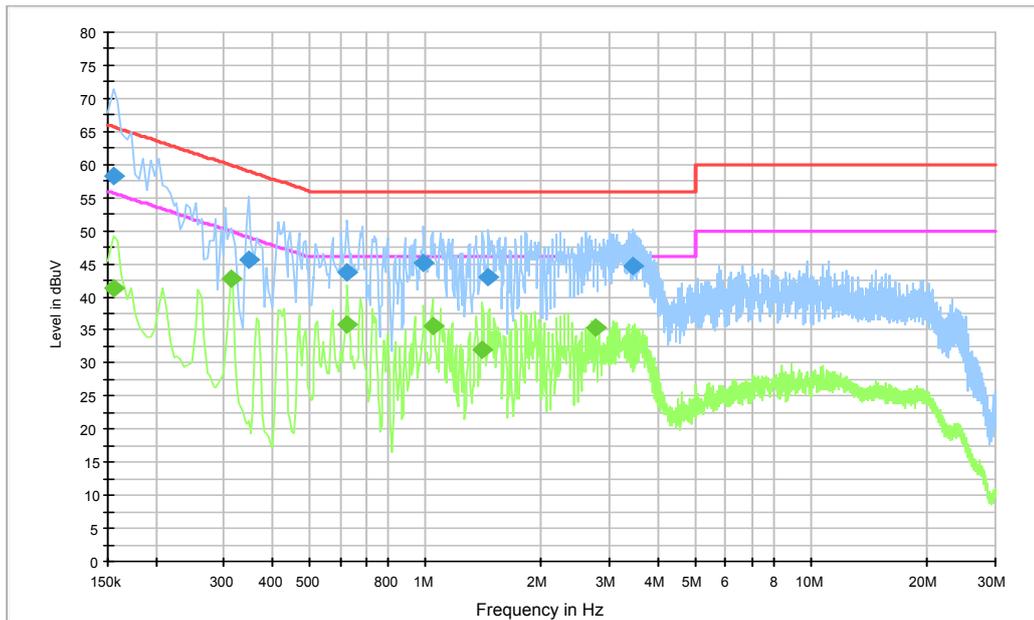


Fig. 87 Conducted Emission(802.11a, Ch40, TX)

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	58.2	10000	9.000	On	L1	28.0	7.6	65.8
0.348000	45.7	10000	9.000	On	L1	20.0	13.4	59.0
0.627000	43.7	10000	9.000	On	L1	20.0	12.3	56.0
0.987000	45.1	10000	9.000	On	L1	19.9	10.9	56.0
1.455000	43.0	10000	9.000	On	L1	19.8	13.0	56.0
3.435000	44.7	10000	9.000	On	L1	19.8	11.3	56.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.154500	41.4	10000	9.000	On	L1	28.0	14.3	55.8
0.312000	42.7	10000	9.000	On	L1	20.0	7.2	49.9
0.627000	35.7	10000	9.000	On	L1	20.0	10.3	46.0
1.041000	35.7	10000	9.000	On	L1	19.9	10.3	46.0
1.405500	32.0	10000	9.000	On	L1	19.8	14.0	46.0
2.755500	35.4	10000	9.000	On	L1	19.8	10.6	46.0

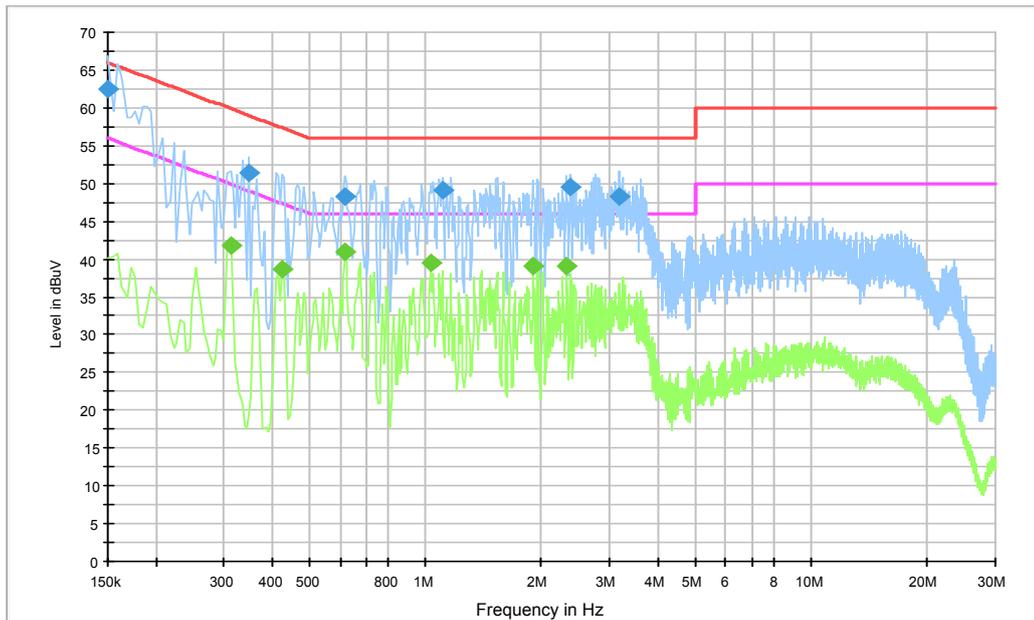


Fig. 88 Conducted Emission(802.11a, IDLE)

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.150000	62.6	10000	9.000	On	L1	28.9	3.4	66.0
0.348000	51.4	10000	9.000	On	N	20.0	7.6	59.0
0.618000	48.2	10000	9.000	On	L1	20.0	7.8	56.0
1.104000	49.2	10000	9.000	On	L1	19.9	6.8	56.0
2.382000	49.4	10000	9.000	On	L1	19.8	6.6	56.0
3.178500	48.2	10000	9.000	On	L1	19.8	7.8	56.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.312000	41.8	10000	9.000	On	L1	20.0	8.1	49.9
0.424500	38.7	10000	9.000	On	L1	20.0	8.7	47.4
0.618000	41.0	10000	9.000	On	L1	20.0	5.0	46.0
1.027500	39.5	10000	9.000	On	L1	19.9	6.5	46.0
1.900500	39.0	10000	9.000	On	L1	19.8	7.0	46.0
2.323500	39.1	10000	9.000	On	L1	19.8	6.9	46.0

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
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Measurement Result:

Mode	Channel	99% Occupied bandwidth (MHz)	conclusion
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802.11a	5180 MHz	Fig.89	17.52	P
	5200 MHz	Fig.90	17.52	P
	5240 MHz	Fig.91	17.44	P

802.11n HT20	5180 MHz	Fig.92	18.40	P
	5200 MHz	Fig.93	18.40	P
	5240 MHz	Fig.94	18.20	P

802.11ac HT20	5180 MHz	Fig.95	17.92	P
	5200 MHz	Fig.96	17.92	P
	5240 MHz	Fig.97	17.92	P

802.11n HT40	5190 MHz	Fig.98	36.32	P
	5230 MHz	Fig.99	36.24	P

802.11ac HT40	5190 MHz	Fig.100	36.16	P
	5230 MHz	Fig.101	36.24	P

802.11ac HT80	5210 MHz	Fig.102	75.36	P
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Conclusion: PASS
Test graphs as below:

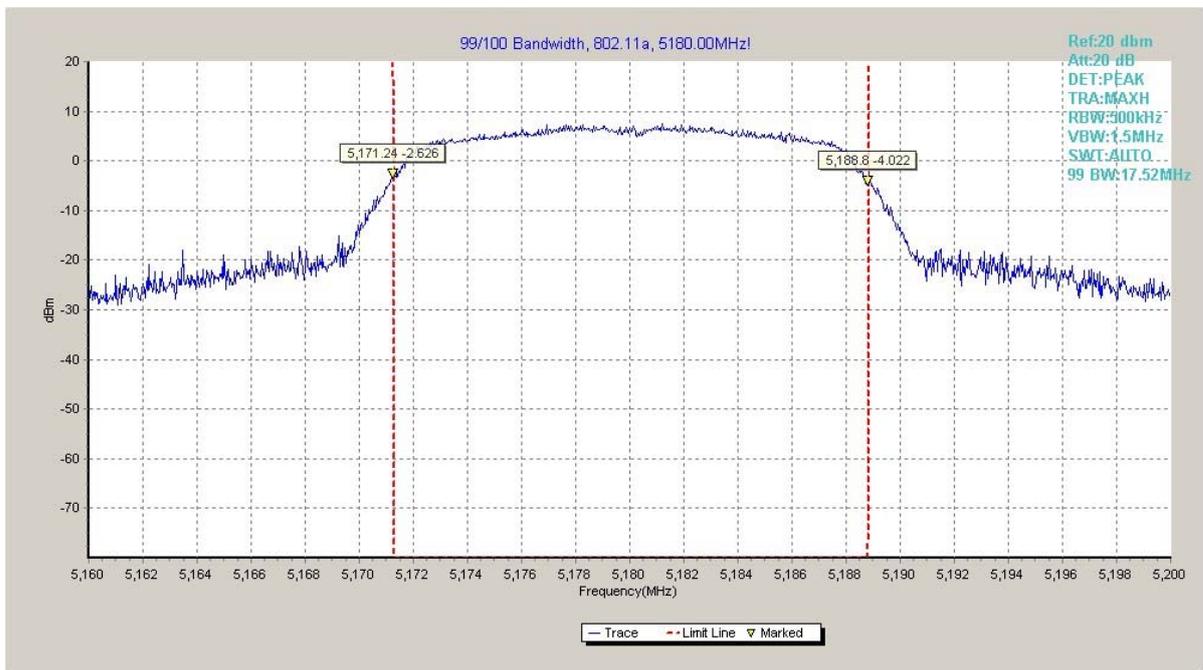


Fig. 89 99% Occupied bandwidth (802.11a, 5180MHz)



Fig. 90 99% Occupied bandwidth (802.11a, 5200MHz)



Fig. 91 99% Occupied bandwidth (802.11a, 5240MHz)



Fig. 92 99% Occupied bandwidth (802.11n20, 5180MHz)



Fig. 93 99% Occupied bandwidth (802.11n20, 5200MHz)

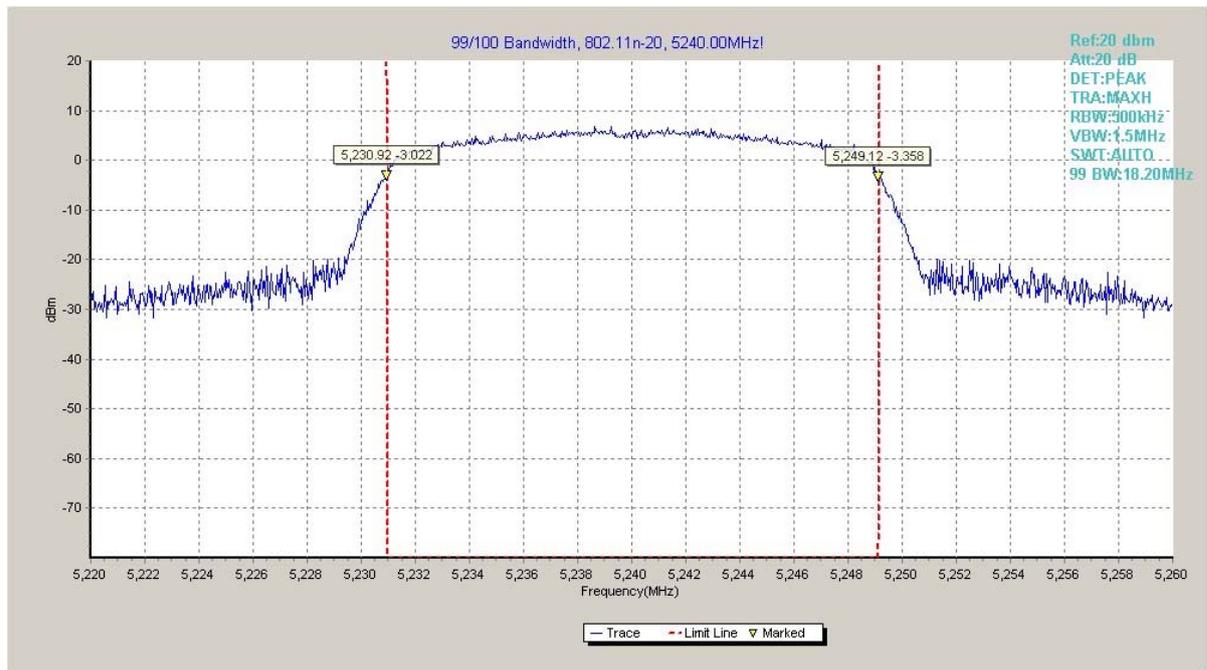


Fig. 94 99% Occupied bandwidth (802.11n20, 5240MHz)



Fig. 95 99% Occupied bandwidth (802.11ac20, 5180MHz)

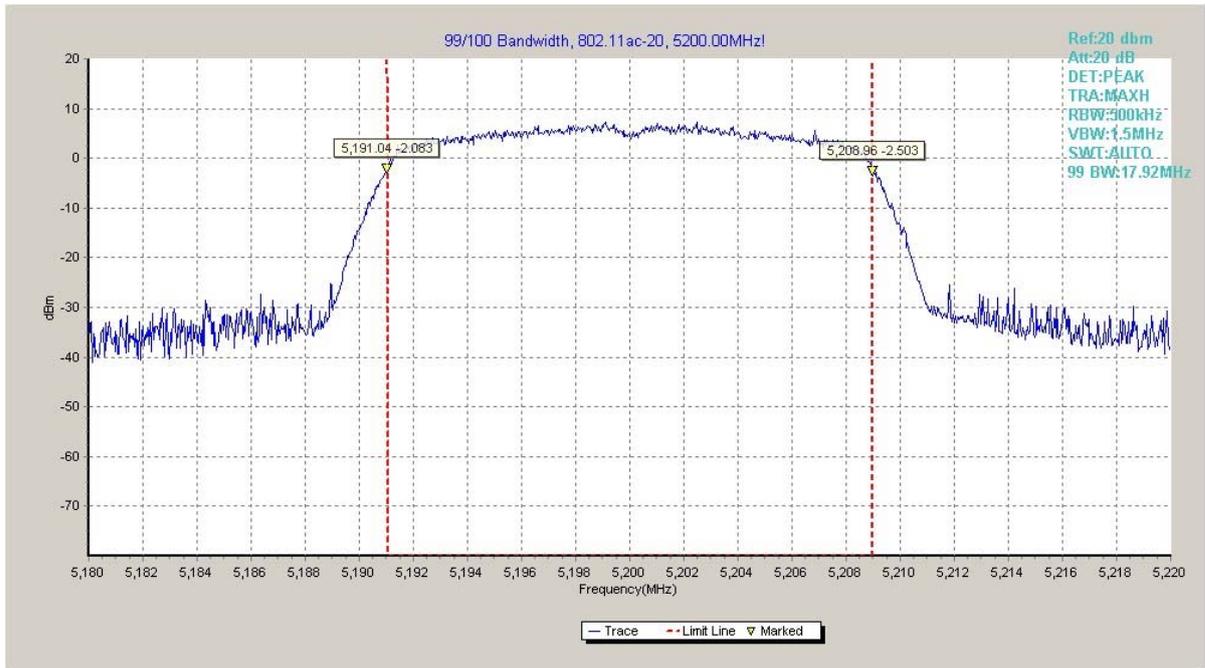


Fig. 96 99% Occupied bandwidth (802.11ac20, 5200MHz)

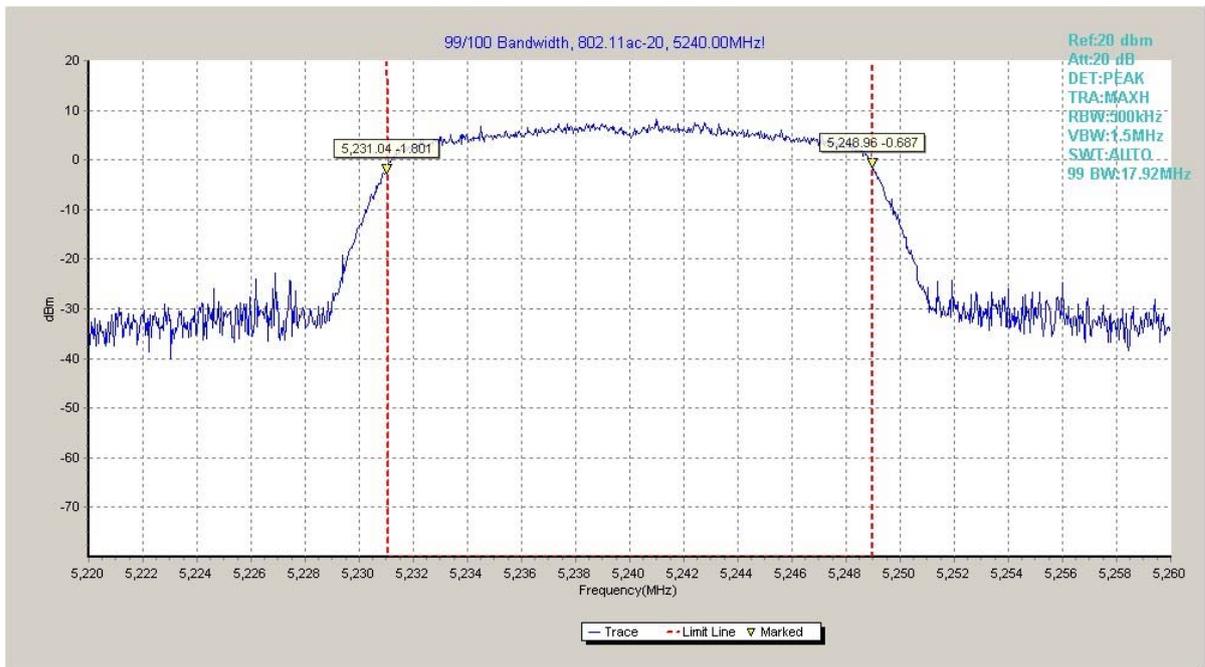


Fig. 97 99% Occupied bandwidth (802.11ac20, 5240MHz)

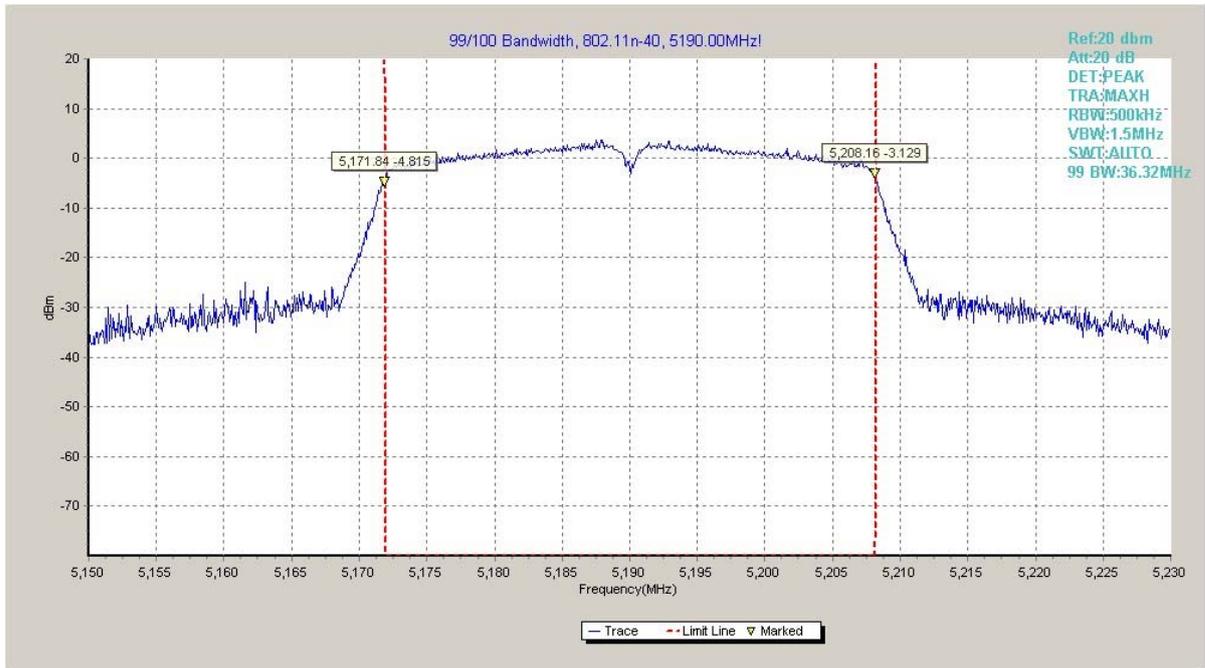


Fig. 98 99% Occupied bandwidth (802.11n40, 5190MHz)

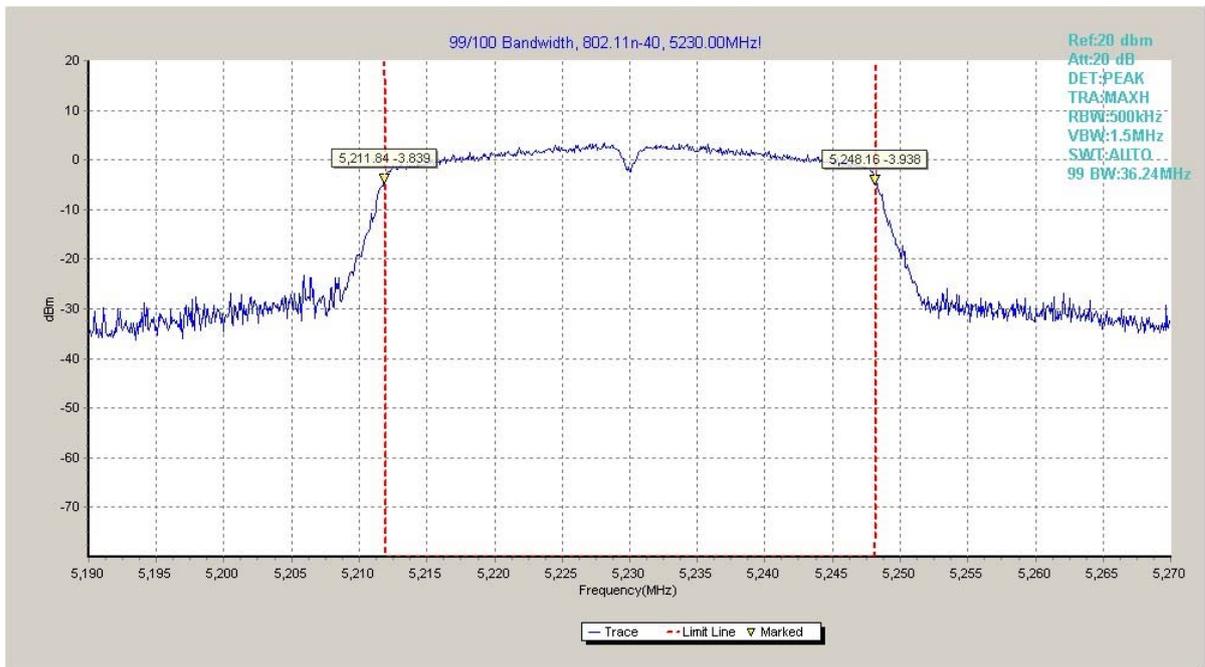


Fig. 99 99% Occupied bandwidth (802.11n40, 5230MHz)



Fig. 100 99% Occupied bandwidth (802.11ac40, 5190MHz)

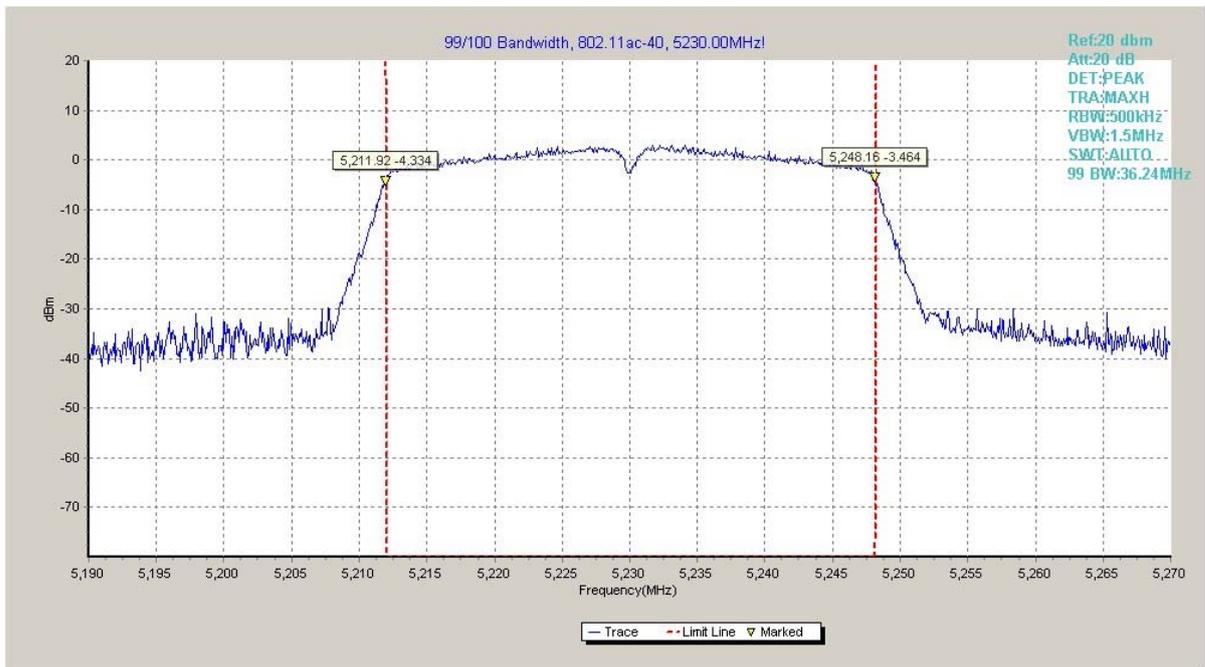


Fig. 101 99% Occupied bandwidth (802.11ac40, 5230MHz)

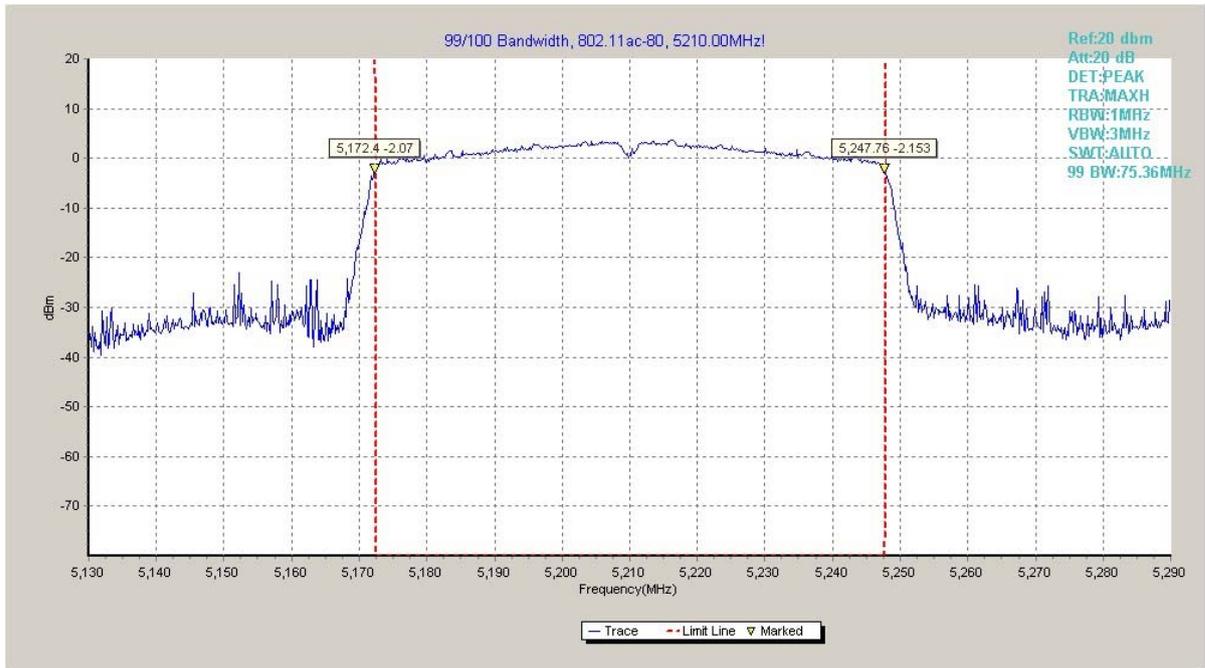


Fig. 102 99% Occupied bandwidth (802.11ac80, 5210MHz)

A.9. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

Measurement Result:

Mode	Channel	Test Condition		Result(MHz)
		Tnom	Vnom	
802.11a	5180MHz	Tmax	Vnom	0.02
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	
		Tnom	Vnom	
802.11ac-HT20	5280MHz	Tmax	Vnom	0.06
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	
		Tnom	Vnom	
802.11n-HT40	5550MHz	Tmax	Vnom	0.03
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	
		Tnom	Vnom	

A.10. 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

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]

Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 600118-0

Telecommunication Technology Labs, CAICT
Beijing
China

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:*

Electromagnetic Compatibility & Telecommunications

*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).*

2018-09-28 through 2019-09-30
Effective Dates




For the National Voluntary Laboratory Accreditation Program

*** END OF REPORT BODY ***