

## Channel 64

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17977.5	46.8	-25.5	46.7	25.6	54	7.2	V
17987.3	46.7	-25.5	46.7	25.5	54	7.3	V
17993.4	46.7	-25.5	46.7	25.5	54	7.3	V
17964.2	46.6	-25.5	46.7	25.4	54	7.4	V
17973.6	46.6	-25.5	46.7	25.4	54	7.4	V
5350.4	41	-27.4	34	34.4	54	13.0	V

## Channel 100

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17959.8	46.2	-25.5	46.7	25	54	7.8	V
17963.7	46.1	-25.5	46.7	24.9	54	7.9	V
17974.7	46.1	-25.5	46.7	24.9	54	7.9	V
17989.5	46.1	-25.5	46.7	24.9	54	7.9	V
17994	46.1	-25.5	46.7	24.9	54	7.9	V
5457.3	40.1	-27.2	34.2	33.1	54	13.9	V

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## Channel 36

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	46.7	-25.5	46.7	25.5	54	7.3	V
17985.2	46.6	-25.5	46.7	25.4	54	7.4	V
17994	46.6	-25.5	46.7	25.4	54	7.4	V
17995	46.6	-25.5	46.7	25.4	54	7.4	V
17995.6	46.6	-25.5	46.7	25.4	54	7.4	V
5149.2	41	-27.6	33.7	34.9	54	13	H

## Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17950	46.7	-25.5	46.7	25.5	54	7.3	V
17975.8	46.7	-25.5	46.7	25.5	54	7.3	V
17983	46.7	-25.5	46.7	25.5	54	7.3	V
17953.8	46.5	-25.5	46.7	25.3	54	7.5	V
17969.8	46.5	-25.5	46.7	25.3	54	7.5	V
17994	46.5	-25.5	46.7	25.3	54	7.5	V

## Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17968.1	46.7	-25.5	46.7	25.5	54	7.3	V
17946.7	46.6	-25.5	46.7	25.4	54	7.4	V
17986.2	46.6	-25.5	46.7	25.4	54	7.4	V
17975.2	46.5	-25.5	46.7	25.3	54	7.5	V
17989.5	46.5	-25.5	46.7	25.3	54	7.5	V
17968.7	46.4	-25.5	46.7	25.2	54	7.6	V

## Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.1	46.7	-25.5	46.7	25.5	54	7.3	V
17972.5	46.7	-25.5	46.7	25.5	54	7.3	V
17980.2	46.7	-25.5	46.7	25.5	54	7.3	V
17964.8	46.6	-25.5	46.7	25.4	54	7.4	V
17976.3	46.6	-25.5	46.7	25.4	54	7.4	V
5363.9	40.6	-27.4	34	34	54	13.4	V

## Channel 100

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17992.8	46.6	-25.5	46.7	25.4	54	7.4	V
17987.3	46.4	-25.5	46.7	25.2	54	7.6	V
17946.7	46.3	-25.5	46.7	25.1	54	7.7	V
17979.1	46.3	-25.5	46.7	25.1	54	7.7	V
17965.3	46.2	-25.5	46.7	25	54	7.8	V
5458	39.8	-27.2	34.2	32.8	54	14.2	V

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## Channel 38

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17990.7	46.9	-25.5	46.7	25.7	54	7.1	V
17965.3	46.7	-25.5	46.7	25.5	54	7.3	V
17956	46.6	-25.5	46.7	25.4	54	7.4	V
17962	46.6	-25.5	46.7	25.4	54	7.4	V
17987.9	46.6	-25.5	46.7	25.4	54	7.4	V
5136.1	40.2	-27.6	33.7	34.1	54	13.8	H

## Channel 46

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17981.3	46.8	-25.5	46.7	25.6	54	7.2	V
17950	46.7	-25.5	46.7	25.5	54	7.3	V
17970.8	46.7	-25.5	46.7	25.5	54	7.3	V
17974.7	46.6	-25.5	46.7	25.4	54	7.4	V
17975.8	46.6	-25.5	46.7	25.4	54	7.4	V
17982.4	46.6	-25.5	46.7	25.4	54	7.4	V

## Channel 62

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17979.1	47	-25.5	46.7	25.8	54	7.0	V
17974.7	46.8	-25.5	46.7	25.6	54	7.2	V
17990.7	46.8	-25.5	46.7	25.6	54	7.2	V
17971.4	46.7	-25.5	46.7	25.5	54	7.3	V
17980.2	46.7	-25.5	46.7	25.5	54	7.3	V
5350.1	46.3	-27.4	34	39.7	54	7.7	V

## Channel 102

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17966.5	46.5	-25.5	46.7	25.3	54	7.5	V
17981.3	46.5	-25.5	46.7	25.3	54	7.5	V
17996.2	46.5	-25.5	46.7	25.3	54	7.5	V
17969.2	46.4	-25.5	46.7	25.2	54	7.6	V
17972.5	46.4	-25.5	46.7	25.2	54	7.6	V
5459.8	39.7	-27.2	34.2	32.7	54	14.3	H

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## Channel 36

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.3	47	-25.5	46.7	25.8	54	7	V
17957.1	46.7	-25.5	46.7	25.5	54	7.3	V
17978	46.7	-25.5	46.7	25.5	54	7.3	V
17981.8	46.6	-25.5	46.7	25.4	54	7.4	V
17970.3	46.5	-25.5	46.7	25.3	54	7.5	V
5149.8	41.3	-27.6	33.7	35.2	54	12.7	H

## Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.6	46.6	-25.5	46.7	25.4	54	7.4	V
17985.2	46.6	-25.5	46.7	25.4	54	7.4	V
17969.8	46.5	-25.5	46.7	25.3	54	7.5	V
17973	46.5	-25.5	46.7	25.3	54	7.5	V
17978	46.5	-25.5	46.7	25.3	54	7.5	V
17955.5	46.4	-25.5	46.7	25.2	54	7.6	V

## Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.5	46.6	-25.5	46.7	25.4	54	7.4	V
17968.7	46.6	-25.5	46.7	25.4	54	7.4	V
17935.1	46.5	-25.5	46.7	25.3	54	7.5	V
17956.5	46.5	-25.5	46.7	25.3	54	7.5	V
17981.8	46.5	-25.5	46.7	25.3	54	7.5	V
17986.8	46.5	-25.5	46.7	25.3	54	7.5	V

## Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.9	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
17963.7	46.7	-25.5	46.7	25.5	54	7.3	V
17977.5	46.7	-25.5	46.7	25.5	54	7.3	V
17987.9	46.7	-25.5	46.7	25.5	54	7.3	V
5362.1	40.6	-27.4	34	34	54	13.4	V

## Channel 100

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17961	46.5	-25.5	46.7	25.3	54	7.5	V
17991.2	46.3	-25.5	46.7	25.1	54	7.7	V
17956.5	46.2	-25.5	46.7	25	54	7.8	V
17984.6	46.2	-25.5	46.7	25	54	7.8	V
17985.2	46.2	-25.5	46.7	25	54	7.8	V
5457.3	38.4	-27.2	34.2	31.4	54	15.6	V

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## Channel 38

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	aAntenna Pol. (H/V)
17997.8	47	-25.5	46.7	25.8	54	7	V
17959.3	46.9	-25.5	46.7	25.7	54	7.1	V
17981.8	46.8	-25.5	46.7	25.6	54	7.2	V
17990.7	46.8	-25.5	46.7	25.6	54	7.2	V
17995.6	46.8	-25.5	46.7	25.6	54	7.2	V
5148.4	40.8	-27.6	33.7	34.7	54	13.2	V

## Channel 46

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17986.2	46.7	-25.5	46.7	25.5	54	7.3	V
17986.8	46.7	-25.5	46.7	25.5	54	7.3	V
17958.8	46.6	-25.5	46.7	25.4	54	7.4	V
17979.1	46.6	-25.5	46.7	25.4	54	7.4	V
17985.7	46.6	-25.5	46.7	25.4	54	7.4	V
17993.4	46.6	-25.5	46.7	25.4	54	7.4	V

## Channel 62

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.7	47	-25.5	46.7	25.8	54	7.0	V
17982.4	46.9	-25.5	46.7	25.7	54	7.1	V
17998.9	46.9	-25.5	46.7	25.7	54	7.1	V
17973.6	46.8	-25.5	46.7	25.6	54	7.2	V
17984	46.8	-25.5	46.7	25.6	54	7.2	V
5350	46.3	-27.4	34	39.7	54	7.7	V

## Channel 102

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.6	46.6	-25.5	46.7	25.4	54	7.4	V
17997.2	46.6	-25.5	46.7	25.4	54	7.4	V
17976.9	46.5	-25.5	46.7	25.3	54	7.5	V
17983.5	46.5	-25.5	46.7	25.3	54	7.5	V
17972.5	46.4	-25.5	46.7	25.2	54	7.6	V
5459.9	39.6	-27.2	34.2	32.6	54	14.4	H

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## Channel 42

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.8	47	-25.5	46.7	25.8	54	7.0	V
17978.5	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
17981.8	46.8	-25.5	46.7	25.6	54	7.2	V
17998.9	46.8	-25.5	46.7	25.6	54	7.2	V
5144.8	48.7	-27.6	33.7	42.6	54	5.3	V

**Channel 58**

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17961	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	V
17992.8	46.8	-25.5	46.7	25.6	54	7.2	V
17956.5	46.7	-25.5	46.7	25.5	54	7.3	V
17943.3	46.6	-25.5	46.7	25.4	54	7.4	V
5350.2	46.7	-27.4	34	40.1	54	7.3	V

**Channel 106**

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17995	46.8	-25.5	46.7	25.6	54	7.2	V
17997.8	46.8	-25.5	46.7	25.6	54	7.2	V
17994.5	46.7	-25.5	46.7	25.5	54	7.3	V
17996.7	46.7	-25.5	46.7	25.5	54	7.3	V
17986.2	46.6	-25.5	46.7	25.4	54	7.4	V
5459.4	44.4	-27.2	34.2	37.4	54	9.6	H

**Peak**
**802.11a**
**Channel 36**

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.5	58.1	-25.5	46.7	36.9	74	15.9	V
17984.6	57.4	-25.5	46.7	36.2	74	16.6	V
17996.2	57.4	-25.5	46.7	36.2	74	16.6	V
17958.2	57.2	-25.5	46.7	36	74	16.8	V
17968.7	57.1	-25.5	46.7	35.9	74	16.9	V
5149.4	54.1	-27.6	33.7	48	74	19.9	V



## Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.2	57.7	-25.5	46.7	36.5	74	16.3	V
17964.8	57.5	-25.5	46.7	36.3	74	16.5	V
17958.2	57	-25.5	46.7	35.8	74	17.0	V
17879.5	56.9	-25.5	46.7	35.7	74	17.1	V
17977.5	56.9	-25.5	46.7	35.7	74	17.1	V
17842.7	56.6	-25.5	46.7	35.4	74	17.4	V

## Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	58.3	-25.5	46.7	37.1	74	15.7	V
17819.6	57.7	-25.5	46.7	36.5	74	16.3	V
17994	57.6	-25.5	46.7	36.4	74	16.4	V
17925.2	57.4	-25.5	46.7	36.2	74	16.6	V
17951	57.2	-25.5	46.7	36	74	16.8	V
17973	57.2	-25.5	46.7	36	74	16.8	V

## Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17942.8	57.6	-25.5	46.7	36.4	74	16.4	V
17946.7	57.3	-25.5	46.7	36.1	74	16.7	V
17823.5	57.2	-25.5	46.7	36	74	16.8	V
17952.2	57.2	-25.5	46.7	36	74	16.8	V
17986.2	57.1	-25.5	46.7	35.9	74	16.9	V
5369.2	54	-27.4	34	47.4	74	20	V

## Channel 100

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.3	57.6	-25.5	46.7	36.4	74	16.4	V
17928.5	57.5	-25.5	46.7	36.3	74	16.5	V
17933.5	57.4	-25.5	46.7	36.2	74	16.6	V
17925.8	57.1	-25.5	46.7	35.9	74	16.9	V
17963.7	56.9	-25.5	46.7	35.7	74	17.1	V
5459	51.9	-27.2	34.2	44.9	74	22.1	V

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## Channel 36

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.8	57.7	-25.5	46.7	36.5	74	16.3	V
17972	57	-25.5	46.7	35.8	74	17.0	V
17856.5	56.9	-25.5	46.7	35.7	74	17.1	V
17978	56.9	-25.5	46.7	35.7	74	17.1	V
17983	56.9	-25.5	46.7	35.7	74	17.1	V
5149.2	53.6	-27.6	33.7	47.5	74	20.4	V

## Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.8	57.8	-25.5	46.7	36.6	74	16.2	V
17934	57.5	-25.5	46.7	36.3	74	16.5	V
17930.2	57.1	-25.5	46.7	35.9	74	16.9	V
17884.5	57	-25.5	46.7	35.8	74	17.0	V
17960.4	57	-25.5	46.7	35.8	74	17.0	V
17989.5	57	-25.5	46.7	35.8	74	17.0	V

## Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.2	58.2	-25.5	46.7	37	74	15.8	V
17986.8	58.1	-25.5	46.7	36.9	74	15.9	V
17976.3	57.8	-25.5	46.7	36.6	74	16.2	V
17899.9	57.3	-25.5	46.7	36.1	74	16.7	V
17997.8	57.2	-25.5	46.7	36	74	16.8	V
17931.8	57.1	-25.5	46.7	35.9	74	16.9	V

## Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17983	58.6	-25.5	46.7	37.4	74	15.4	V
17875.2	58.1	-25.5	46.7	36.9	74	15.9	V
17892.2	58	-25.5	46.7	36.8	74	16	V
17948.8	57.7	-25.5	46.7	36.5	74	16.3	V
17963.2	57.7	-25.5	46.7	36.5	74	16.3	V
5365.1	52.8	-27.4	34	46.2	74	21.2	V

## Channel 100

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.8	57.6	-25.5	46.7	36.4	74	16.4	V
17835.5	57	-25.5	46.7	35.8	74	17	V
17900.5	56.9	-25.5	46.7	35.7	74	17.1	V
17890.5	56.5	-25.5	46.7	35.3	74	17.5	V
17936.8	56.5	-25.5	46.7	35.3	74	17.5	V
5458.7	52	-27.2	34.2	45	74	22	V

**802.11n-HT40**

## Channel 38

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17886.2	57.6	-25.5	46.7	36.4	74	16.4	V
17550.1	57.5	-26.9	45.2	39.1	74	16.5	V
17974.7	57.4	-25.5	46.7	36.2	74	16.6	V
17829.5	57.2	-25.5	46.7	36	74	16.8	V
17980.8	57.2	-25.5	46.7	36	74	16.8	V
5130.5	52.3	-27.6	33.7	46.2	74	21.7	H

## Channel 46

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17885	58.8	-25.5	46.7	37.6	74	15.2	V
17994.5	58.5	-25.5	46.7	37.3	74	15.5	V
17957.1	58	-25.5	46.7	36.8	74	16.0	V
17871.3	57.8	-25.5	46.7	36.6	74	16.2	V
17983	57.5	-25.5	46.7	36.3	74	16.5	V
17956.5	57.4	-25.5	46.7	36.2	74	16.6	V

## Channel 62

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17873.5	57.8	-25.5	46.7	36.6	74	16.2	V
17945	57.8	-25.5	46.7	36.6	74	16.2	V
17998.3	57.8	-25.5	46.7	36.6	74	16.2	V
17992.3	57.7	-25.5	46.7	36.5	74	16.3	V
17997.2	57.6	-25.5	46.7	36.4	74	16.4	V
5350.1	58.2	-27.4	34	51.6	74	15.8	V

## Channel 102

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17902.7	57.7	-25.5	46.7	36.5	74	16.3	V
17940.6	57.6	-25.5	46.7	36.4	74	16.4	V
17980.8	57.4	-25.5	46.7	36.2	74	16.6	V
17857.5	57.1	-25.5	46.7	35.9	74	16.9	V
17891.7	57.1	-25.5	46.7	35.9	74	16.9	V
5459	52.2	-27.2	34.2	45.2	74	21.8	H

## 802.11ac-HT20

## Channel 36

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17969.8	58	-25.5	46.7	36.8	74	16.0	V
17875.7	57.5	-25.5	46.7	36.3	74	16.5	V
17980.8	57.5	-25.5	46.7	36.3	74	16.5	V
17930.7	57.4	-25.5	46.7	36.2	74	16.6	V
17864.2	57.2	-25.5	46.7	36	74	16.8	V
5146.3	53.5	-27.6	33.7	47.4	74	20.5	H

## Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	sAntenna Pol. (H/V)
17986.8	57.5	-25.5	46.7	36.3	74	16.5	V
17994	57.3	-25.5	46.7	36.1	74	16.7	V
17956.5	57.2	-25.5	46.7	36	74	16.8	V
17965.3	57.2	-25.5	46.7	36	74	16.8	V
17976.9	57.1	-25.5	46.7	35.9	74	16.9	V
17899.3	57	-25.5	46.7	35.8	74	17.0	V

## Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17978	57.6	-25.5	46.7	36.4	74	16.4	V
17942.2	57.5	-25.5	46.7	36.3	74	16.5	V
17848.8	57.3	-25.5	46.7	36.1	74	16.7	V
17958.8	57.3	-25.5	46.7	36.1	74	16.7	V
17928	57.2	-25.5	46.7	36	74	16.8	V
17979.1	56.9	-25.5	46.7	35.7	74	17.1	V

## Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17978.5	58	-25.5	46.7	36.8	74	16	V
17965.9	57.8	-25.5	46.7	36.6	74	16.2	V
17984.6	57.6	-25.5	46.7	36.4	74	16.4	V
17987.9	57.5	-25.5	46.7	36.3	74	16.5	V
17962	57.3	-25.5	46.7	36.1	74	16.7	V
5365.5	53.4	-27.4	34	46.8	74	20.6	V

## Channel 100

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17913.1	57.1	-25.5	46.7	35.9	74	16.9	V
17923.5	57	-25.5	46.7	35.8	74	17	V
17967.5	57	-25.5	46.7	35.8	74	17	V
17973.6	56.9	-25.5	46.7	35.7	74	17.1	V
17873	56.7	-25.5	46.7	35.5	74	17.3	V
5453.5	50.5	-27.2	34.2	43.5	74	23.5	V

**802.11ac-HT40**

## Channel 38

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.9	57.7	-25.5	46.7	36.5	74	16.3	V
17955.5	57.4	-25.5	46.7	36.2	74	16.6	V
17971.4	57.4	-25.5	46.7	36.2	74	16.6	V
17874.6	57.2	-25.5	46.7	36	74	16.8	V
17858.7	57.1	-25.5	46.7	35.9	74	16.9	V
5141.3	54.8	-27.6	33.7	48.7	74	19.2	V

## Channel 46

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.3	58.2	-25.5	46.7	37	74	15.8	V
17902.1	57.8	-25.5	46.7	36.6	74	16.2	V
17972.5	57.8	-25.5	46.7	36.6	74	16.2	V
17998.9	57.7	-25.5	46.7	36.5	74	16.3	V
17947.8	57.6	-25.5	46.7	36.4	74	16.4	V
17958.2	57.6	-25.5	46.7	36.4	74	16.4	V

## Channel 62

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.8	57.6	-25.5	46.7	36.4	74	16.4	V
17987.3	57.5	-25.5	46.7	36.3	74	16.5	V
17883.4	57.3	-25.5	46.7	36.1	74	16.7	V
17802.5	57.2	-25.5	46.7	36	74	16.8	V
17959.3	57.1	-25.5	46.7	35.9	74	16.9	V
5351	59.5	-27.4	34	52.9	74	14.5	V

## Channel 102

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17995.6	57.6	-25.5	46.7	36.4	74	16.4	V
17885	57.5	-25.5	46.7	36.3	74	16.5	V
17982.4	57.5	-25.5	46.7	36.3	74	16.5	V
17992.3	57.2	-25.5	46.7	36	74	16.8	V
17997.2	57.1	-25.5	46.7	35.9	74	16.9	V
5459.7	53.3	-27.2	34.2	46.3	74	20.7	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17919.7	58.1	-25.5	46.7	36.9	74	15.9	V
17997.8	57.7	-25.5	46.7	36.5	74	16.3	V
17964.2	57.4	-25.5	46.7	36.2	74	16.6	V
17496.2	57.3	-26.9	45.2	38.9	74	16.7	V
17997.2	57.3	-25.5	46.7	36.1	74	16.7	V
5148.6	60.9	-27.6	33.7	54.8	74	13.1	V

## Channel 58

Frequency (MHz)	Meas. Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)
17954.9	57.8	-25.5	46.7	36.6	74	16.2	V
17992.8	57.7	-25.5	46.7	36.5	74	16.3	V
17968.7	57.5	-25.5	46.7	36.3	74	16.5	V
17977.5	57.5	-25.5	46.7	36.3	74	16.5	V
17897.2	57.2	-25.5	46.7	36	74	16.8	V
5355	62.5	-27.4	34	55.9	74	11.5	H



## Channel 106

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
17996.7	58	-25.5	46.7	36.8	74	16	V
17976.3	57.7	-25.5	46.7	36.5	74	16.3	V
17998.9	57.2	-25.5	46.7	36	74	16.8	V
17904.8	56.9	-25.5	46.7	35.7	74	17.1	V
17966.5	56.9	-25.5	46.7	35.7	74	17.1	V
5455.4	57	-27.2	34.2	50	74	17	H

Sample calculation:

802.11ac 80MHz CH106–Peak, 5455.4 MHz

Result (dBμV/m) = P<sub>Mea</sub>(50) + Cable Loss(-27.2) + Antenna Factor(34.2) = 57dBuV/m

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

**Test Condition:**

Voltage (V)	Frequency (Hz)
110	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.58	Fig.59	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)

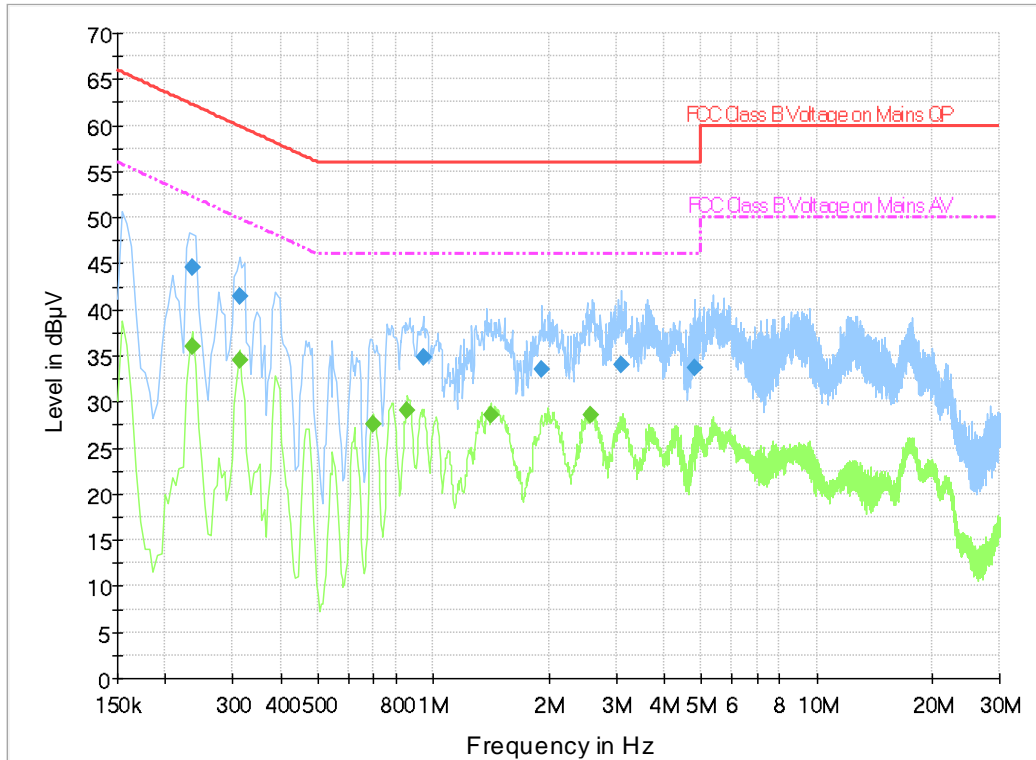
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.58	Fig.59	P
0.5 to 5	46			
5 to 30	50			

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:**

**Result for Traffic:**



**Fig.58 Conducted Emission (802.11a CH36,TX)**

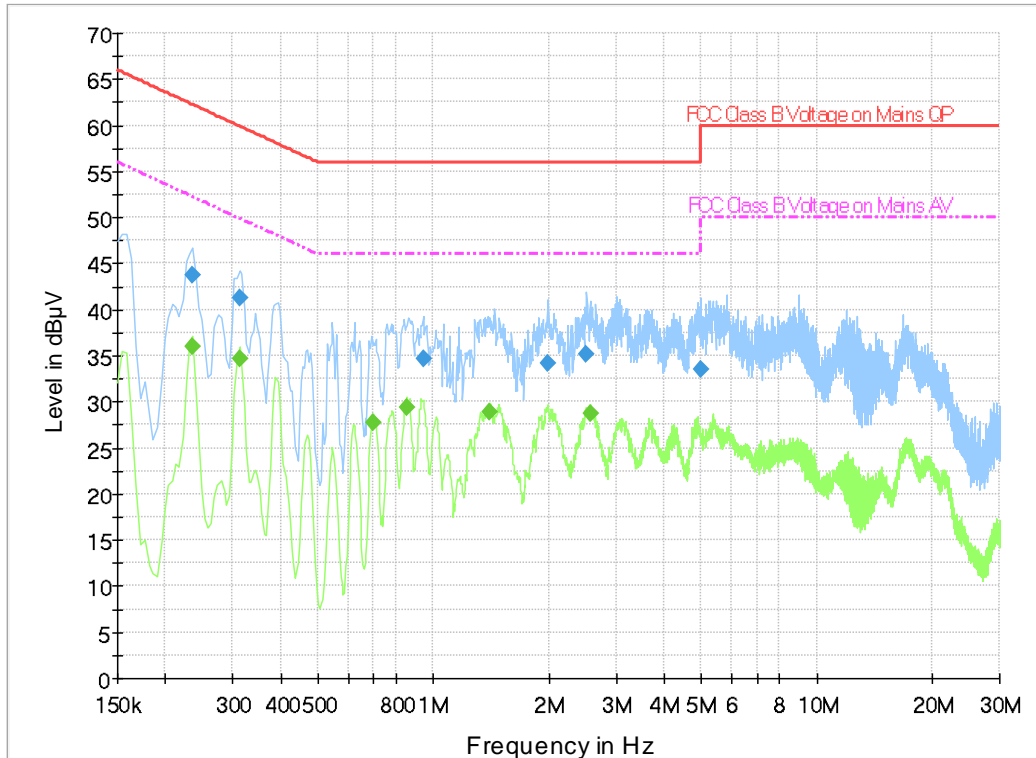
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.235500	44.5	1000.0	9.000	On	L1	19.6	17.7	62.3
0.312000	41.5	1000.0	9.000	On	L1	19.6	18.5	59.9
0.942000	34.8	1000.0	9.000	On	N	19.6	21.2	56.0
1.918500	33.6	1000.0	9.000	On	L1	19.5	22.4	56.0
3.084000	34.1	1000.0	9.000	On	N	19.6	21.9	56.0
4.825500	33.7	1000.0	9.000	On	N	19.7	22.3	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.235500	35.9	1000.0	9.000	On	N	19.6	16.3	52.3
0.312000	34.6	1000.0	9.000	On	L1	19.6	15.3	49.9
0.699000	27.6	1000.0	9.000	On	L1	19.6	18.4	46.0
0.856500	29.1	1000.0	9.000	On	N	19.5	16.9	46.0
1.414500	28.5	1000.0	9.000	On	N	19.6	17.5	46.0
2.566500	28.5	1000.0	9.000	On	N	19.6	17.5	46.0

**Result for Idle:**



**Fig.59 Conducted Emission (802.11a, IDLE)**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.235500	43.7	1000.0	9.000	On	L1	19.6	18.5	62.3
0.312000	41.3	1000.0	9.000	On	L1	19.6	18.6	59.9
0.942000	34.6	1000.0	9.000	On	N	19.6	21.4	56.0
1.995000	34.2	1000.0	9.000	On	N	19.5	21.8	56.0
2.512500	35.2	1000.0	9.000	On	L1	19.6	20.8	56.0
4.983000	33.5	1000.0	9.000	On	N	19.7	22.5	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.235500	35.9	1000.0	9.000	On	L1	19.6	16.3	52.3
0.312000	34.7	1000.0	9.000	On	L1	19.6	15.2	49.9
0.694500	27.7	1000.0	9.000	On	N	19.4	18.3	46.0
0.852000	29.4	1000.0	9.000	On	N	19.5	16.6	46.0
1.405500	28.8	1000.0	9.000	On	L1	19.6	17.2	46.0
2.562000	28.7	1000.0	9.000	On	N	19.6	17.3	46.0

### B.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).

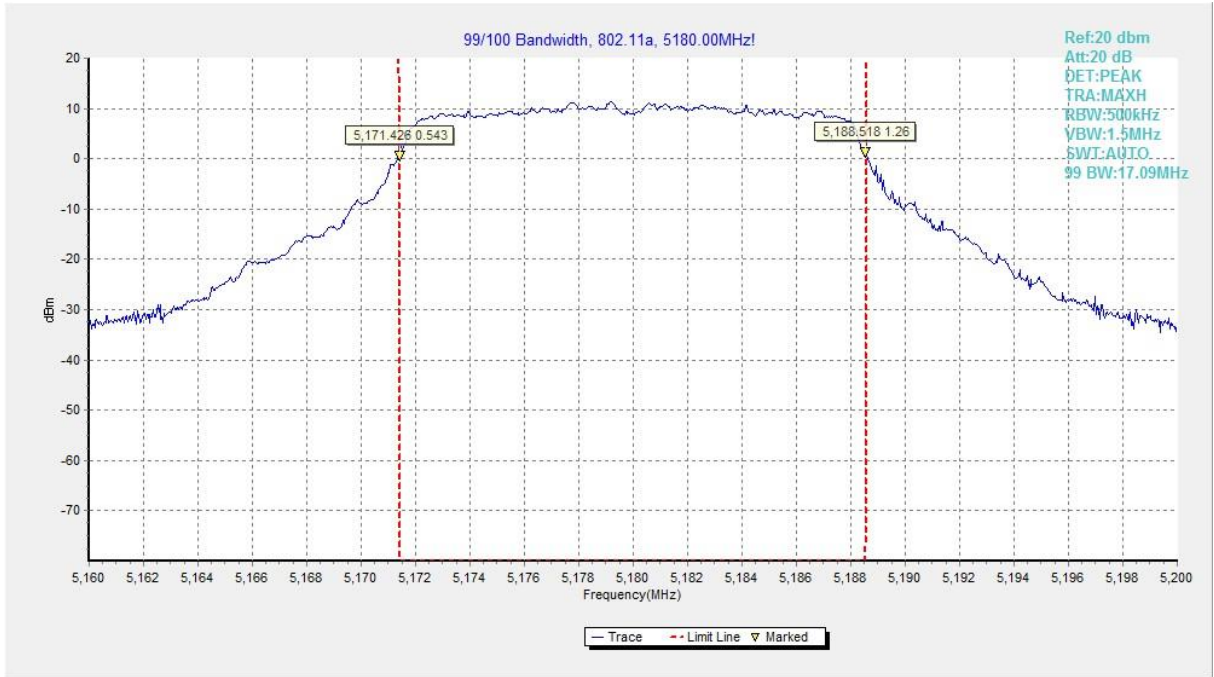
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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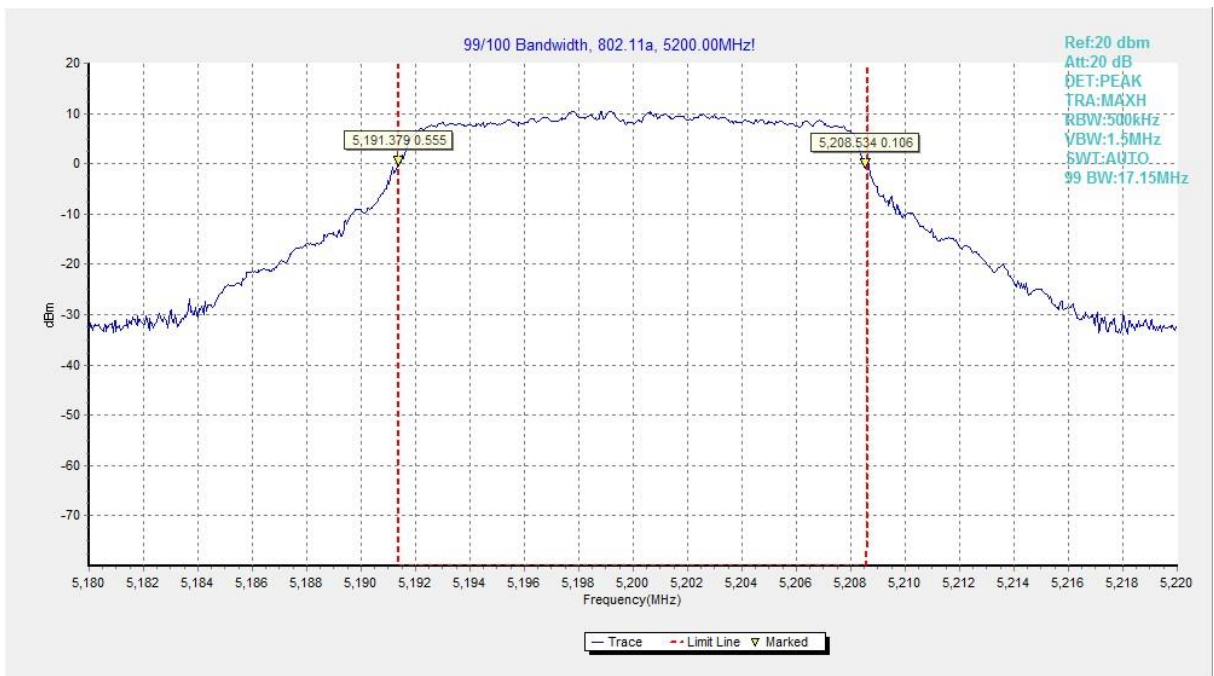
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.60	17.09	P
	5200 MHz	Fig.61	17.15	P
	5240 MHz	Fig.62	17.17	P
802.11n-HT20	5180 MHz	Fig.63	18.33	P
	5200 MHz	Fig.64	18.31	P
	5240 MHz	Fig.65	18.28	P
802.11n HT40	5190 MHz	Fig.66	36.38	P
	5230 MHz	Fig.67	36.37	P
802.11ac HT80	5210 MHz	Fig.68	75.72	P

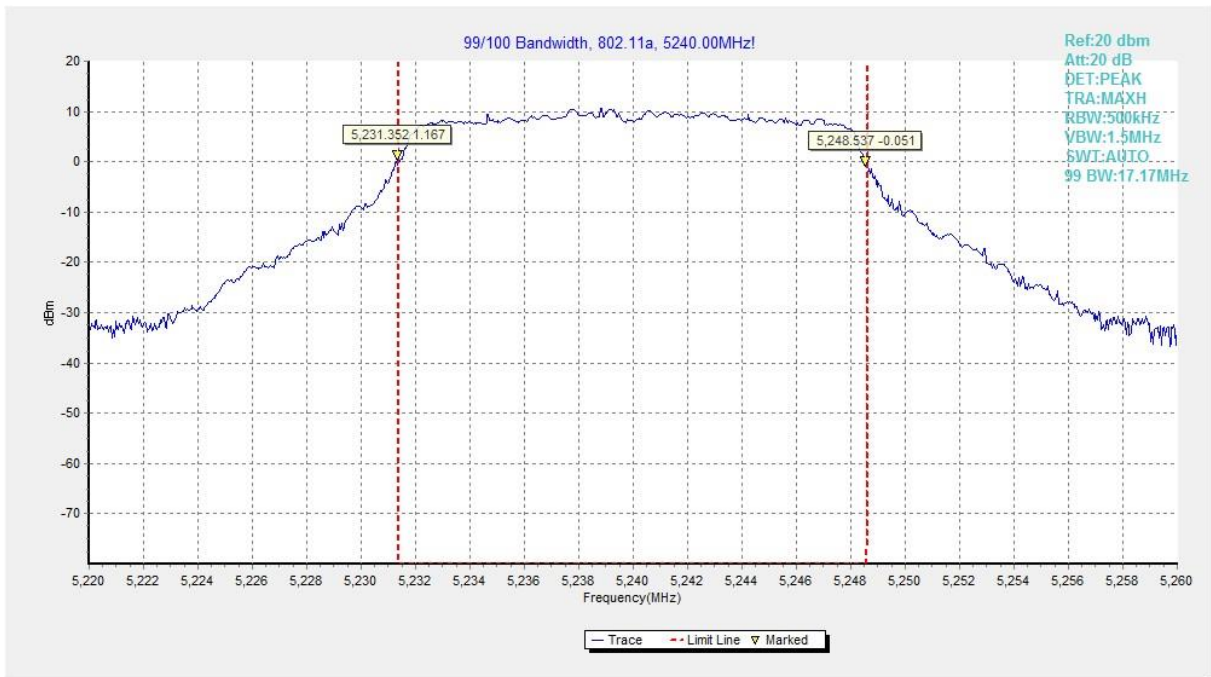
**Conclusion: PASS**  
**Test graphs as below:**



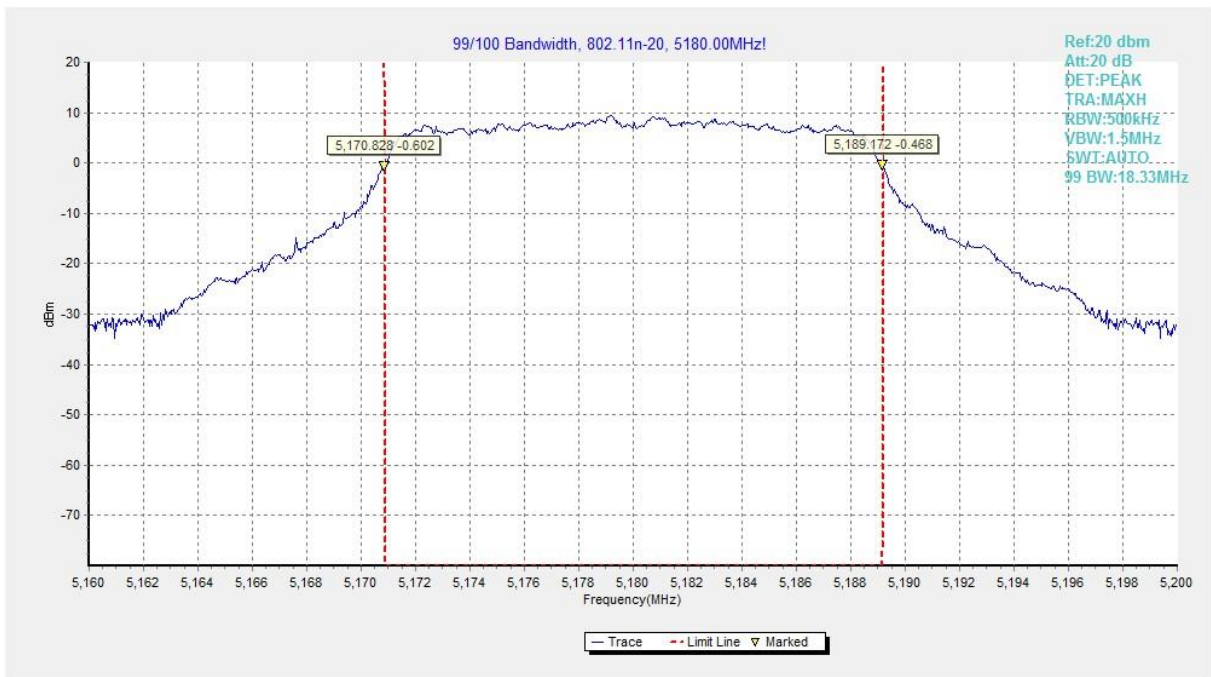
**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**



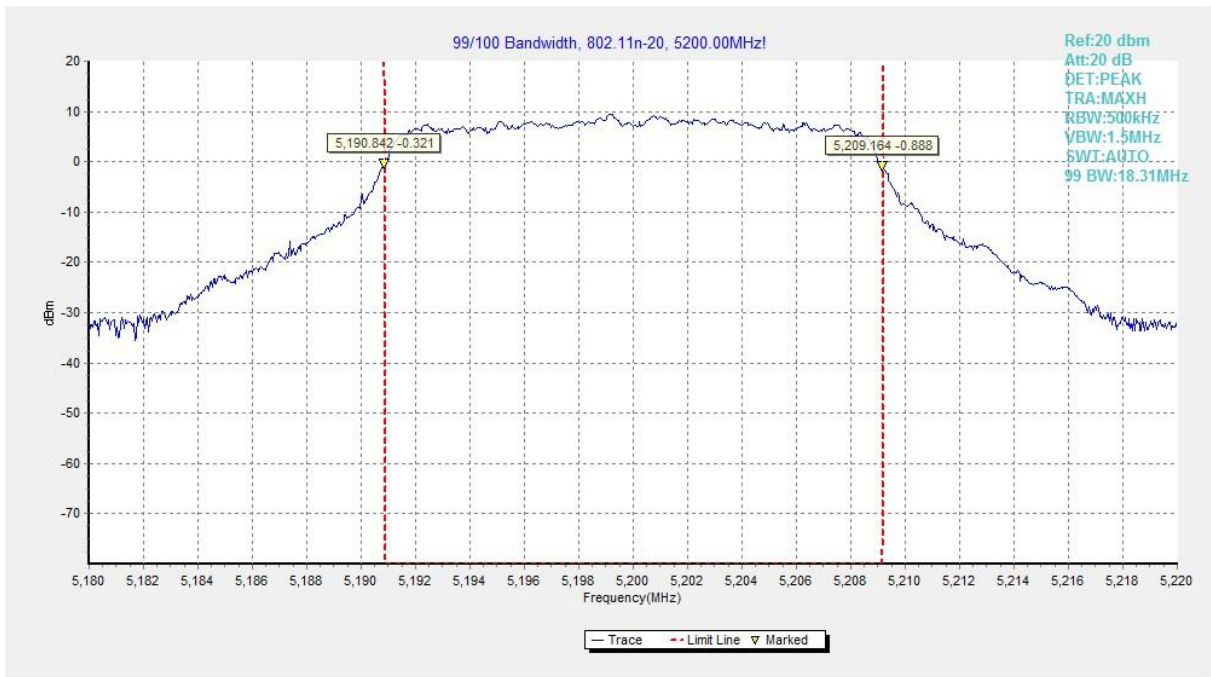
**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**



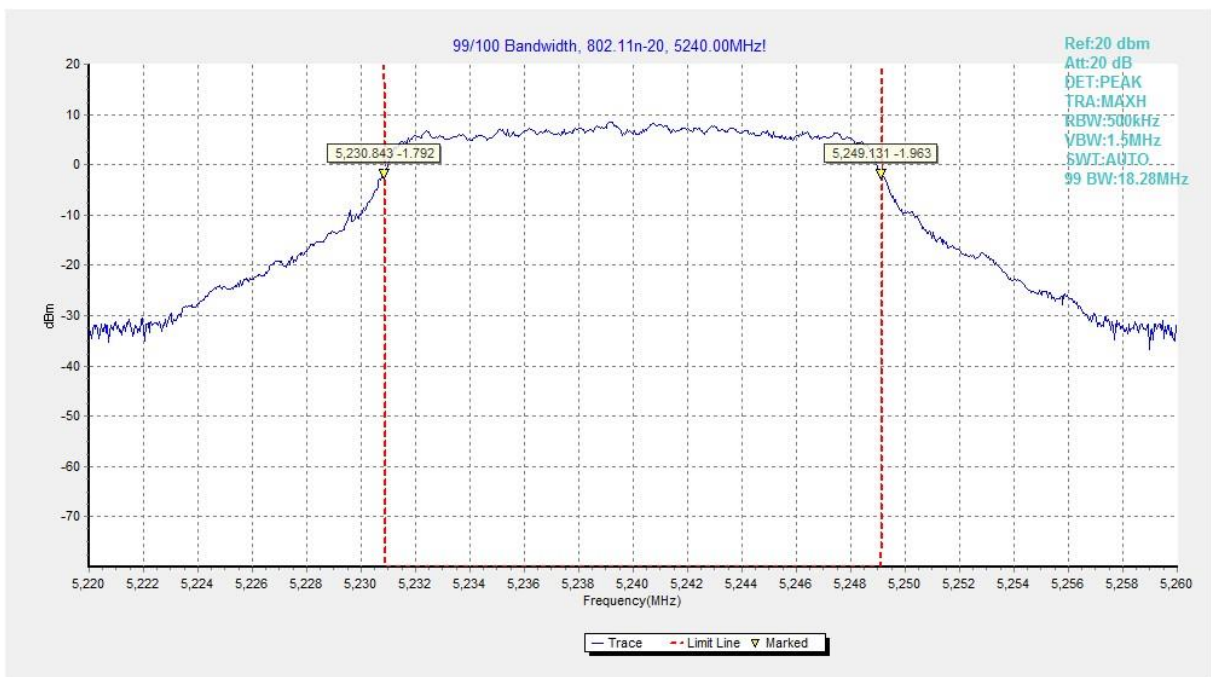
**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**



**Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)**

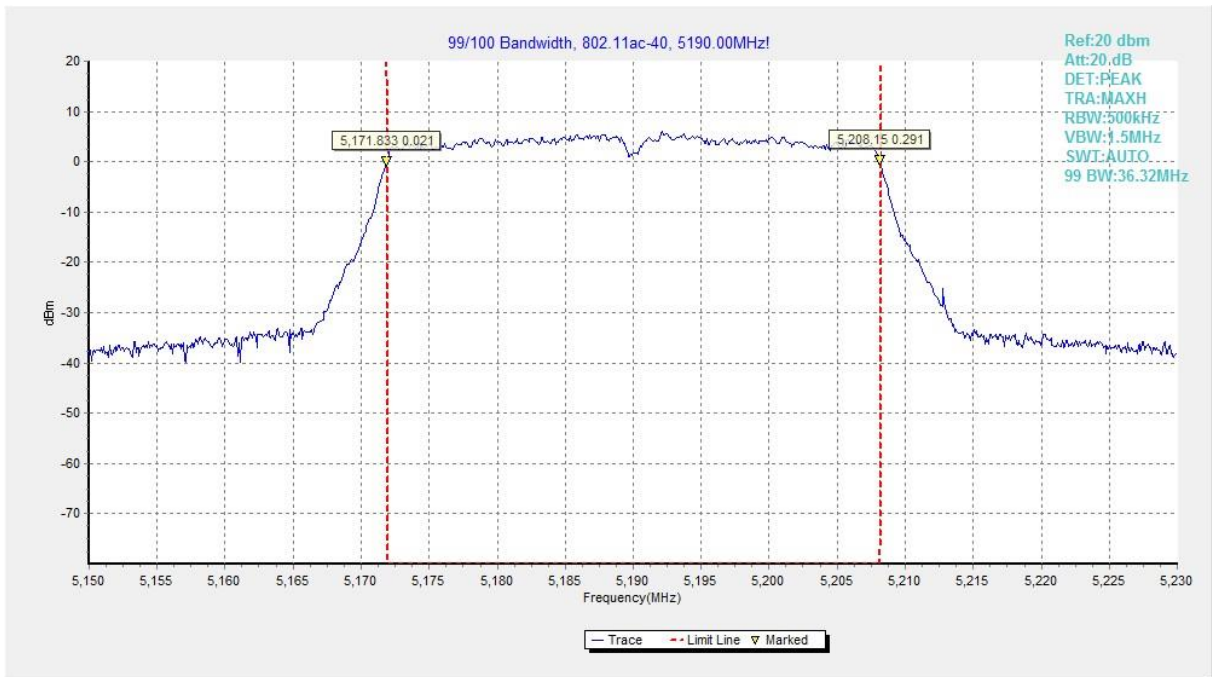


**Fig.64 99% Occupied bandwidth (802.11 n-HT20, 5200MHz)**

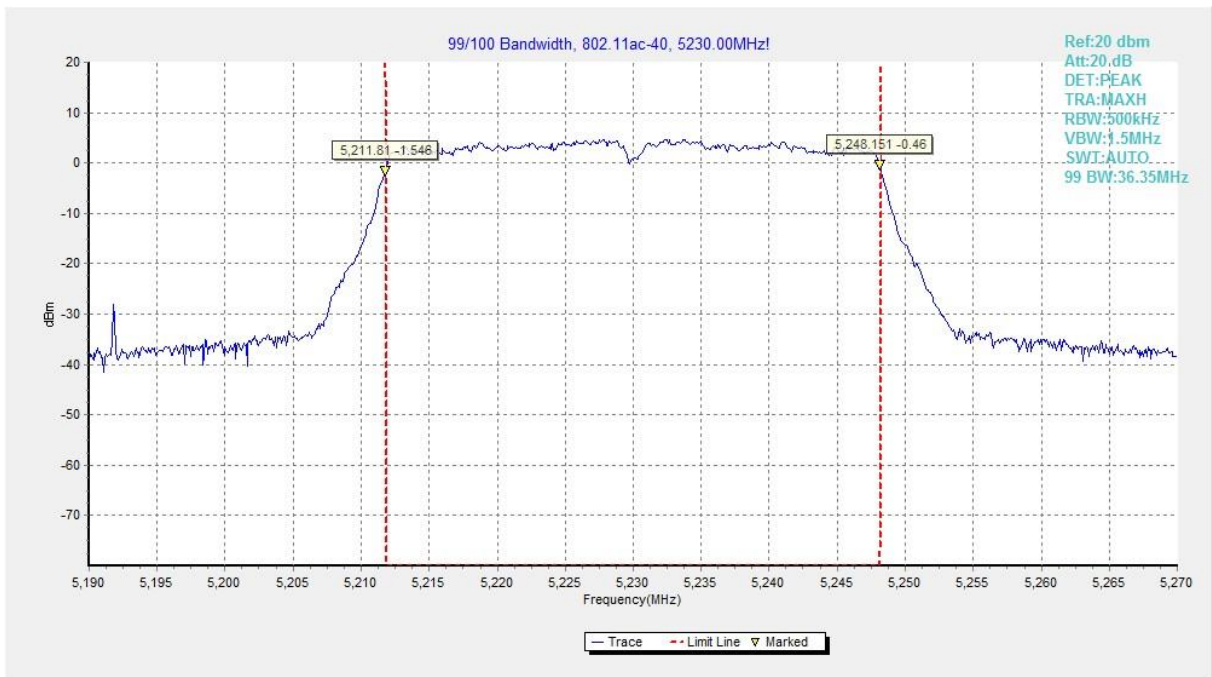


**Fig.65 99% Occupied bandwidth (802.11 n-HT20, 5240MHz)**

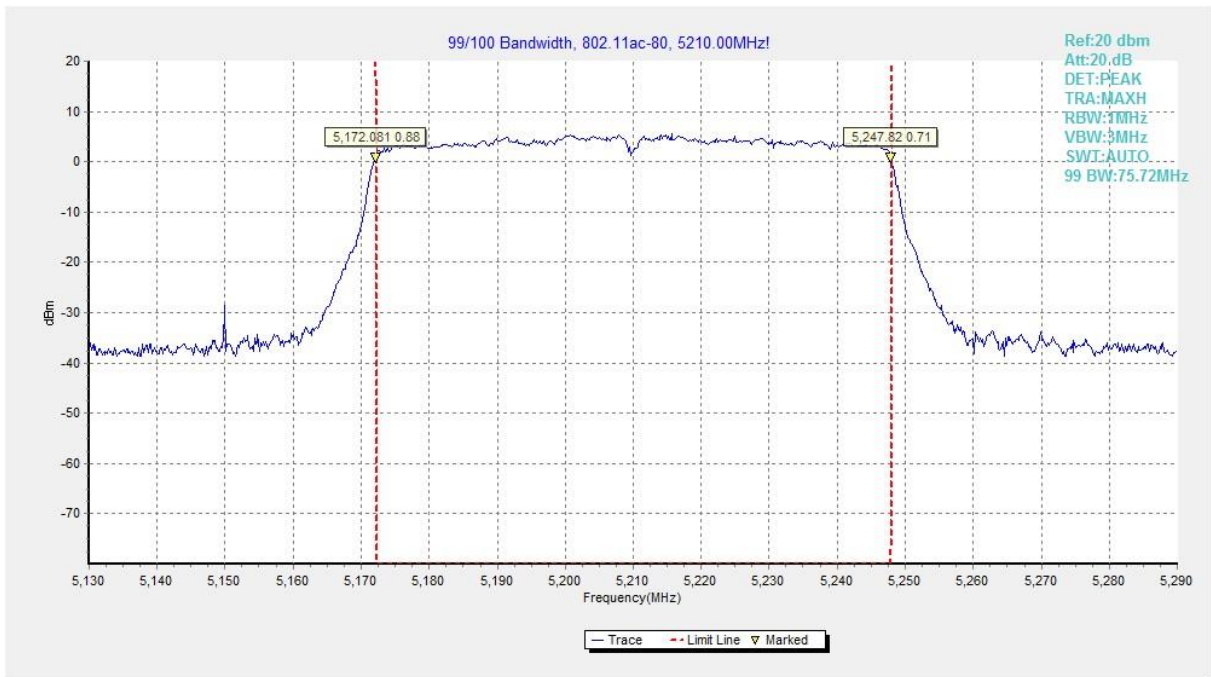




**Fig.66 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)**



**Fig.67 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)**






**Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**

### B.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 C: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <h3>Certificate of Accreditation to ISO/IEC 17025:2017</h3> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p><b>Telecommunication Technology Labs, CAICT</b> 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><b>Electromagnetic Compatibility &amp; Telecommunications</b></p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. 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>2020-09-29 through 2021-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

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