

Fig.45 Band Edges (802.11n-HT40 Ch134, 5670MHz)

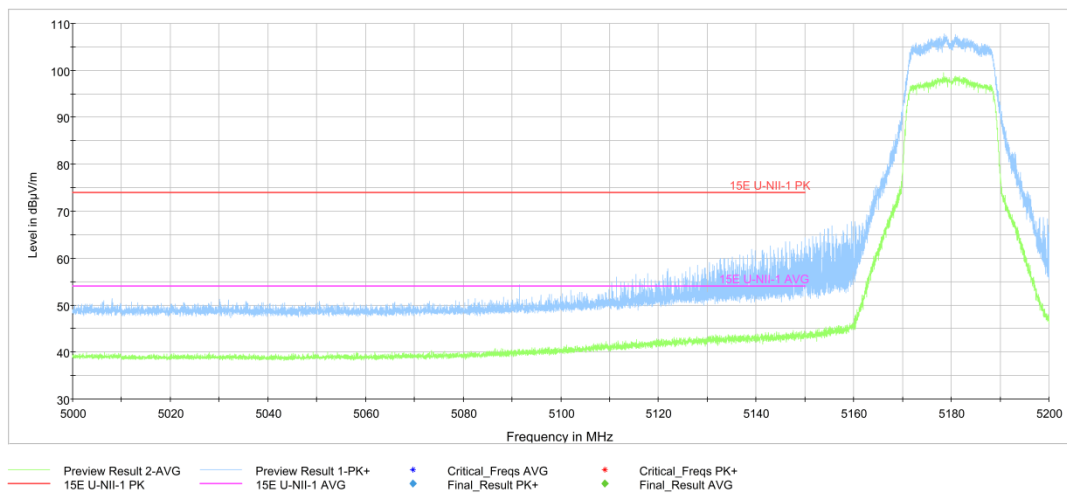


Fig.46 Band Edges (802.11ac-HT20 Ch36, 5180MHz)

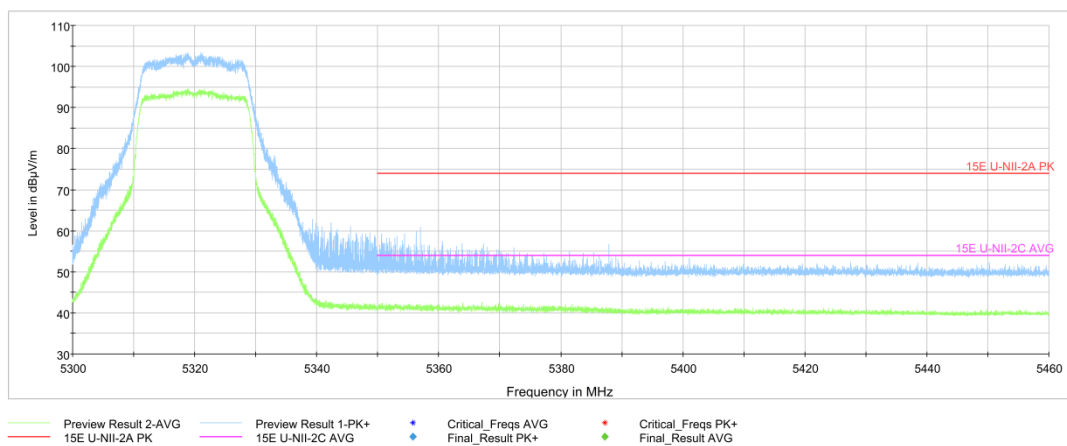


Fig.47 Band Edges (802.11ac-HT20 Ch64, 5320MHz)

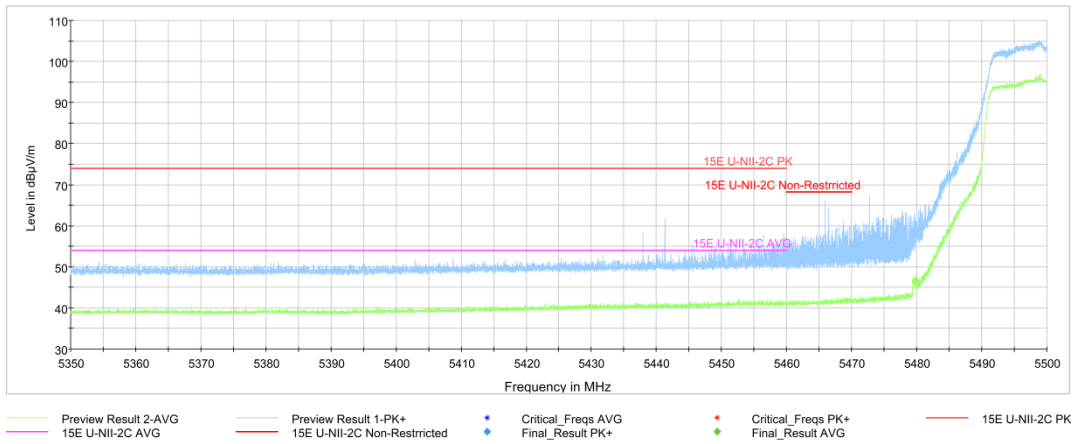


Fig.48 Band Edges (802.11ac-HT20 Ch100, 5500MHz)

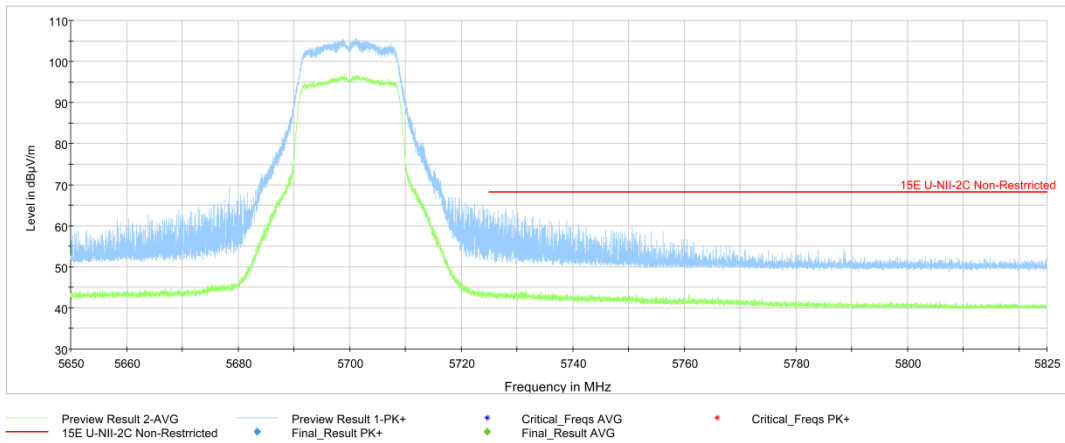


Fig.49 Band Edges (802.11ac-HT20 Ch140, 5700MHz)

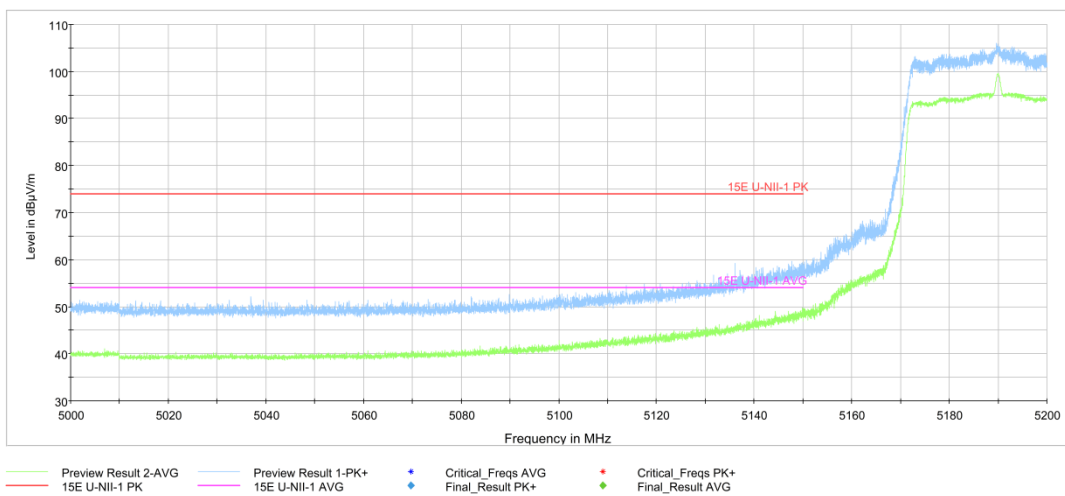


Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)

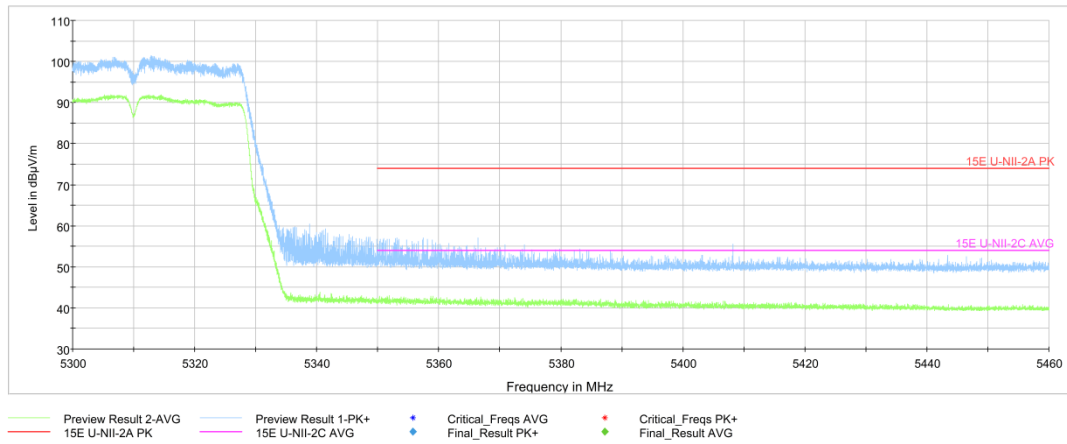


Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)

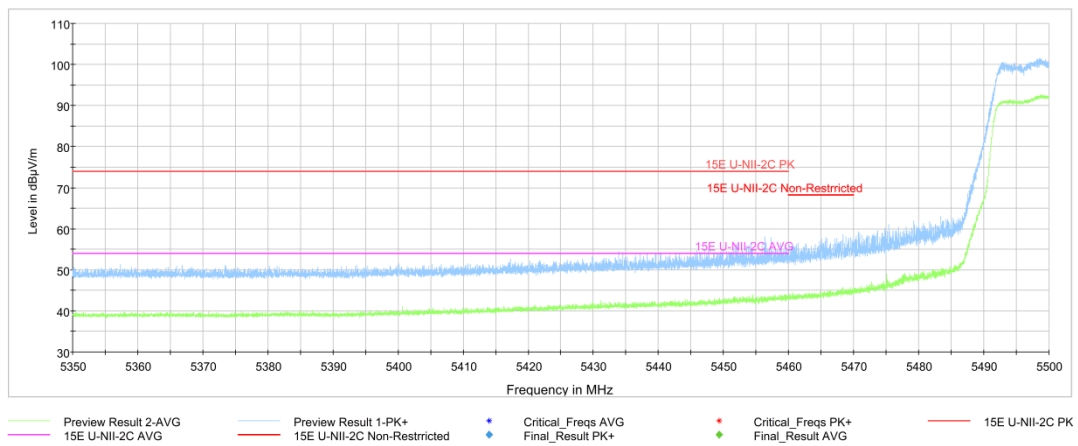


Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)

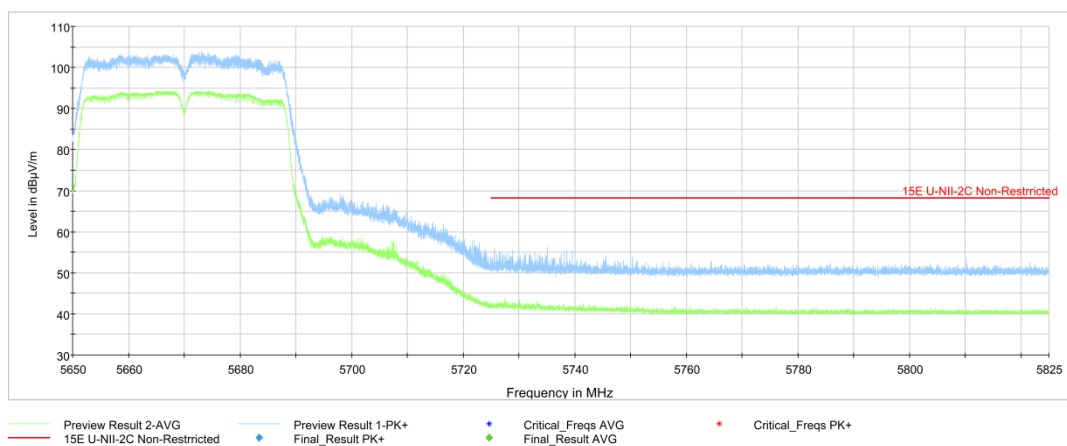


Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)

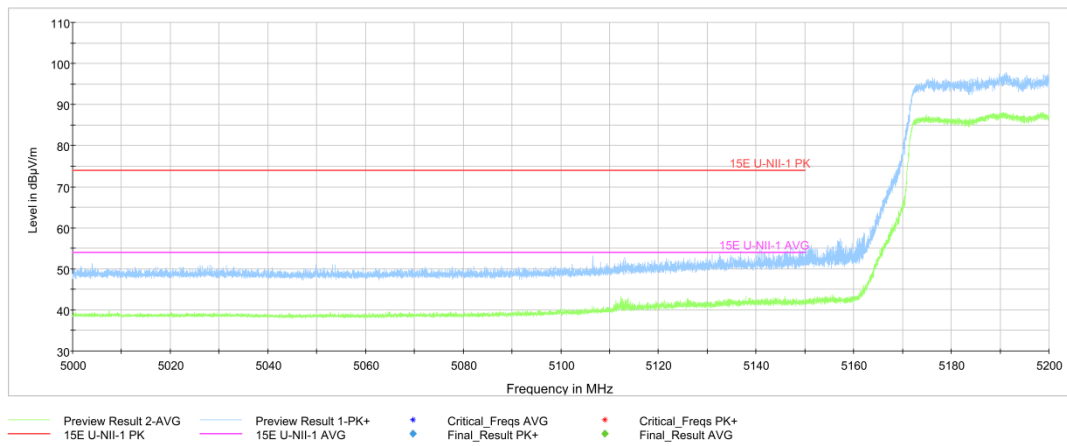


Fig.54 Band Edges (802.11ac-HT80 Ch42 , 5210MHz)

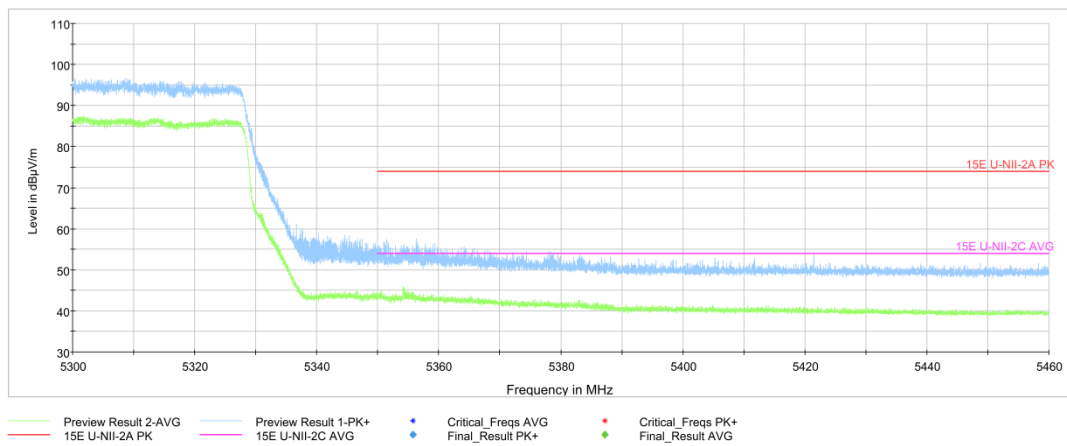


Fig.55 Band Edges (802.11ac-HT80 Ch58, 5290MHz)

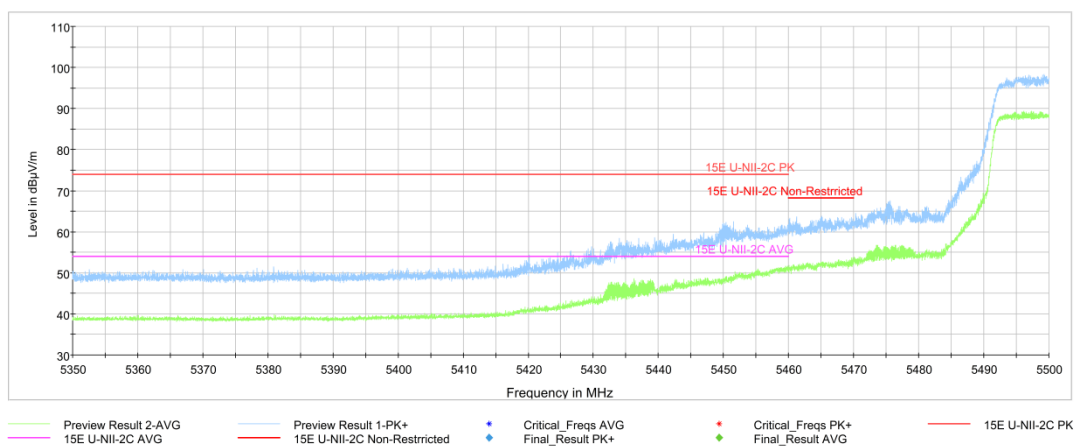


Fig.56 Band Edges (802.11ac-HT80 Ch106, 5530MHz)

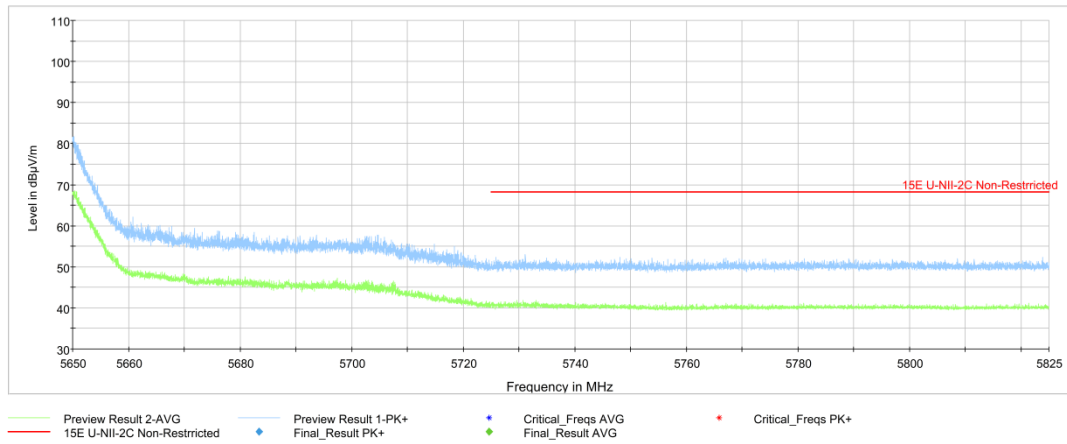


Fig.57 Band Edges (802.11ac-HT80 Ch122, 5610MHz)

A.6. Transmitter Spurious Emission

Measurement Limit:

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

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(uV/m)	Field strength(dBuV/m)	Measurement distance(m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

The measurement is made according to ANSI C63.10-2013 and KDB 789033

EUT ID: UT71a

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
	122(5610MHz)	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 (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17973.050	39.53	-25.50	46.66	18.37	54.00	14.47	H
17961.500	39.26	-25.50	46.66	18.10	54.00	14.74	V
14493.200	35.95	-28.59	42.46	22.08	54.00	18.05	V
14478.900	35.89	-28.59	42.46	22.02	54.00	18.11	V
5147.400	44.16	-27.61	33.67	38.10	54.00	9.84	H
5146.140	44.02	-27.61	33.67	37.96	54.00	9.98	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17977.450	39.22	-25.50	46.66	18.06	54.00	14.78	H
17906.500	39.17	-25.50	46.66	18.01	54.00	14.83	H
14493.200	35.99	-28.59	42.46	22.12	54.00	18.01	V
14490.450	35.96	-28.59	42.46	22.09	54.00	18.04	H
11851.000	35.23	-31.85	39.05	28.03	54.00	18.77	V
11827.350	35.21	-31.85	39.05	28.01	54.00	18.79	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17923.550	39.27	-25.50	46.66	18.11	54.00	14.73	V
17943.900	39.24	-25.50	46.66	18.08	54.00	14.76	H
13307.400	36.13	-29.49	39.71	25.91	54.00	17.87	H
13336.550	35.92	-29.49	39.71	25.70	54.00	18.08	H
11777.850	35.49	-31.99	38.98	28.50	54.00	18.51	V
11781.700	35.27	-31.99	38.98	28.28	54.00	18.73	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17984.050	39.52	-25.50	46.66	18.36	54.00	14.48	H
17934.550	39.50	-25.50	46.66	18.34	54.00	14.50	H
13287.050	36.21	-29.67	39.55	26.33	54.00	17.79	H
14488.250	36.10	-28.59	42.46	22.23	54.00	17.90	V
11777.850	35.36	-31.99	38.98	28.37	54.00	18.64	H
11871.900	35.26	-31.85	39.05	28.06	54.00	18.74	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17967.550	39.79	-25.50	46.66	18.63	54.00	14.21	H
17952.150	39.78	-25.50	46.66	18.62	54.00	14.22	V
14498.700	36.25	-28.59	42.46	22.38	54.00	17.75	H
14484.950	35.95	-28.59	42.46	22.08	54.00	18.05	V
11821.850	35.18	-31.85	39.05	27.98	54.00	18.82	H
11761.900	35.11	-31.99	38.98	28.12	54.00	18.89	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	39.28	-25.50	46.66	18.12	54.00	14.72	H
17990.650	39.28	-25.50	46.66	18.12	54.00	14.72	H
13288.700	36.01	-29.67	39.55	26.13	54.00	17.99	V
14480.550	35.84	-28.59	42.46	21.97	54.00	18.16	V
5363.360	43.34	-27.43	34.01	36.76	54.00	10.66	H
5351.552	43.30	-27.43	34.01	36.72	54.00	10.70	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17981.850	40.61	-25.50	46.66	19.45	54.00	13.39	H
17968.100	40.27	-25.50	46.66	19.11	54.00	13.73	H
13329.400	37.16	-29.49	39.71	26.94	54.00	16.84	H
13344.800	37.10	-29.49	39.71	26.88	54.00	16.90	H
5458.540	42.15	-27.18	34.17	35.16	54.00	11.85	H
5457.280	42.09	-27.18	34.17	35.10	54.00	11.91	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.150	40.11	-25.50	46.66	18.95	54.00	13.89	V
17919.150	40.09	-25.50	46.66	18.93	54.00	13.91	H
13285.400	36.64	-29.67	39.55	26.76	54.00	17.36	H
13342.050	36.63	-29.49	39.71	26.41	54.00	17.37	V
11395.050	35.66	-32.42	38.79	29.29	54.00	18.34	H
11904.350	35.56	-31.85	39.05	28.36	54.00	18.44	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17945.000	39.50	-25.50	46.66	18.34	54.00	14.50	V
17935.650	39.46	-25.50	46.66	18.30	54.00	14.54	H
14497.600	36.19	-28.59	42.46	22.32	54.00	17.81	V
14477.800	35.98	-28.59	42.46	22.11	54.00	18.02	V
5148.680	45.44	-27.61	33.67	39.38	54.00	8.56	H
5148.820	45.22	-27.61	33.67	39.16	54.00	8.78	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17961.500	39.31	-25.50	46.66	18.15	54.00	14.69	V
17931.800	39.28	-25.50	46.66	18.12	54.00	14.72	V
14478.900	35.86	-28.59	42.46	21.99	54.00	18.14	H
14499.250	35.85	-28.59	42.46	21.98	54.00	18.15	H
11818.000	35.18	-31.85	39.05	27.98	54.00	18.82	V
11762.450	35.16	-31.99	38.98	28.17	54.00	18.84	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17985.700	39.30	-25.50	46.66	18.14	54.00	14.70	H
17976.350	39.12	-25.50	46.66	17.96	54.00	14.88	H
14496.500	35.88	-28.59	42.46	22.01	54.00	18.12	V
12676.550	35.76	-30.47	39.06	27.17	54.00	18.24	H
11831.750	35.38	-31.85	39.05	28.18	54.00	18.62	V
11864.200	35.20	-31.85	39.05	28.00	54.00	18.80	V

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17949.400	40.53	-25.50	46.66	19.37	54.00	13.47	H
17962.600	40.25	-25.50	46.66	19.09	54.00	13.75	V
13283.750	37.05	-29.67	39.55	27.17	54.00	16.95	V
13296.950	36.98	-29.49	39.71	26.76	54.00	17.02	H
11820.200	36.22	-31.85	39.05	29.02	54.00	17.78	V
11870.800	35.91	-31.85	39.05	28.71	54.00	18.09	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.600	40.08	-25.50	46.66	18.92	54.00	13.92	H
17903.200	40.07	-25.50	46.66	18.91	54.00	13.93	H
13307.400	36.35	-29.49	39.71	26.13	54.00	17.65	H
13283.200	36.33	-29.67	39.55	26.45	54.00	17.67	H
11863.650	35.98	-31.85	39.05	28.78	54.00	18.02	H
11780.050	35.59	-31.99	38.98	28.60	54.00	18.41	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.100	39.80	-25.50	46.66	18.64	54.00	14.20	V
17930.700	39.69	-25.50	46.66	18.53	54.00	14.31	H
14498.150	36.49	-28.59	42.46	22.62	54.00	17.51	H
13281.550	36.46	-29.67	39.55	26.58	54.00	17.54	V
5358.384	42.98	-27.43	34.01	36.40	54.00	11.02	H
5364.048	42.86	-27.43	34.01	36.28	54.00	11.14	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17925.200	39.36	-25.50	46.66	18.20	54.00	14.64	H
17943.900	39.33	-25.50	46.66	18.17	54.00	14.67	V
14487.700	36.22	-28.59	42.46	22.35	54.00	17.78	H
14499.800	36.15	-28.59	42.46	22.28	54.00	17.85	V
5454.040	42.16	-27.18	34.17	35.17	54.00	11.84	H
5450.215	42.07	-27.18	34.17	35.08	54.00	11.93	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17909.800	39.26	-25.50	46.66	18.10	54.00	14.74	H
17982.400	39.24	-25.50	46.66	18.08	54.00	14.76	V
14495.950	36.11	-28.59	42.46	22.24	54.00	17.89	V
14478.350	36.08	-28.59	42.46	22.21	54.00	17.92	H
11835.050	35.48	-31.85	39.05	28.28	54.00	18.52	V
11785.550	35.46	-31.99	38.98	28.47	54.00	18.54	V

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17970.850	39.01	-25.50	46.66	17.85	54.00	14.99	V
17992.850	38.98	-25.50	46.66	17.82	54.00	15.02	V
14499.250	35.83	-28.59	42.46	21.96	54.00	18.17	H
14497.600	35.81	-28.59	42.46	21.94	54.00	18.19	V
5149.720	45.96	-27.61	33.67	39.90	54.00	8.04	H
5149.700	45.85	-27.61	33.67	39.79	54.00	8.15	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.850	39.21	-25.50	46.66	18.05	54.00	14.79	H
17912.550	39.15	-25.50	46.66	17.99	54.00	14.85	H
14485.500	35.83	-28.59	42.46	21.96	54.00	18.17	H
14486.050	35.73	-28.59	42.46	21.86	54.00	18.27	V
11753.100	35.41	-31.99	38.98	28.42	54.00	18.59	H
11819.650	35.18	-31.85	39.05	27.98	54.00	18.82	V

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17960.400	40.13	-25.50	46.66	18.97	54.00	13.87	H
17976.900	40.13	-25.50	46.66	18.97	54.00	13.87	H
13296.400	36.98	-29.49	39.71	26.76	54.00	17.02	V
13311.800	36.62	-29.49	39.71	26.40	54.00	17.38	V
11302.100	35.75	-32.36	38.77	29.35	54.00	18.25	H
11764.650	35.54	-31.99	38.98	28.55	54.00	18.46	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17994.500	40.52	-25.50	46.66	19.36	54.00	13.48	V
17972.500	40.50	-25.50	46.66	19.34	54.00	13.50	V
13295.850	37.30	-29.49	39.71	27.08	54.00	16.70	H
13323.350	37.23	-29.49	39.71	27.01	54.00	16.77	H
5351.152	42.75	-27.43	34.01	36.17	54.00	11.25	H
5350.016	42.64	-27.43	34.01	36.06	54.00	11.36	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17915.300	39.27	-25.50	46.66	18.11	54.00	14.73	V
17949.950	39.27	-25.50	46.66	18.11	54.00	14.73	H
14498.150	36.28	-28.59	42.46	22.41	54.00	17.72	V
13280.450	36.20	-29.67	39.55	26.32	54.00	17.80	V
5459.050	44.04	-27.18	34.17	37.05	54.00	9.96	H
5458.915	43.73	-27.18	34.17	36.74	54.00	10.27	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17960.950	39.29	-25.50	46.66	18.13	54.00	14.71	H
17939.500	39.25	-25.50	46.66	18.09	54.00	14.75	V
14495.950	36.25	-28.59	42.46	22.38	54.00	17.75	H
14490.450	36.23	-28.59	42.46	22.36	54.00	17.77	V
11400.550	35.76	-32.42	38.79	29.39	54.00	18.24	H
11877.950	35.70	-31.85	39.05	28.50	54.00	18.30	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.850	39.39	-25.50	46.66	18.23	54.00	14.61	H
17947.750	39.25	-25.50	46.66	18.09	54.00	14.75	V
14482.200	36.34	-28.59	42.46	22.47	54.00	17.66	V
14475.050	36.27	-28.59	42.46	22.40	54.00	17.73	V
11868.600	35.82	-31.85	39.05	28.62	54.00	18.18	V
11876.850	35.65	-31.85	39.05	28.45	54.00	18.35	V

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.150	39.49	-25.50	46.66	18.33	54.00	14.51	V
17953.800	39.37	-25.50	46.66	18.21	54.00	14.63	V
14471.200	36.01	-28.59	42.46	22.14	54.00	17.99	H
13283.200	35.93	-29.67	39.55	26.05	54.00	18.07	H
5147.600	44.56	-27.61	33.67	38.50	54.00	9.44	H
5149.940	44.51	-27.61	33.67	38.45	54.00	9.49	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.350	39.20	-25.50	46.66	18.04	54.00	14.80	V
17901.550	39.14	-25.50	46.66	17.98	54.00	14.86	H
13343.150	35.72	-29.49	39.71	25.50	54.00	18.28	H
14487.150	35.71	-28.59	42.46	21.84	54.00	18.29	V
11774.000	35.20	-31.99	38.98	28.21	54.00	18.80	V
11787.750	35.11	-31.99	38.98	28.12	54.00	18.89	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.950	39.14	-25.50	46.66	17.98	54.00	14.86	H
17963.150	39.06	-25.50	46.66	17.90	54.00	14.94	H
14499.250	36.53	-28.59	42.46	22.66	54.00	17.47	V
14499.800	36.14	-28.59	42.46	22.27	54.00	17.86	H
11794.350	35.12	-31.99	38.98	28.13	54.00	18.88	V
11858.700	35.11	-31.85	39.05	27.91	54.00	18.89	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.150	39.35	-25.50	46.66	18.19	54.00	14.65	H
17967.550	39.28	-25.50	46.66	18.12	54.00	14.72	V
14498.700	36.28	-28.59	42.46	22.41	54.00	17.72	H
13287.600	35.85	-29.67	39.55	25.97	54.00	18.15	H
11776.200	35.22	-31.99	38.98	28.23	54.00	18.78	H
11919.200	35.02	-31.48	39.09	27.41	54.00	18.98	V

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17954.900	39.33	-25.50	46.66	18.17	54.00	14.67	H
17943.900	39.21	-25.50	46.66	18.05	54.00	14.79	V
14499.250	36.34	-28.59	42.46	22.47	54.00	17.66	V
14494.850	36.07	-28.59	42.46	22.20	54.00	17.93	V
11908.200	35.25	-31.85	39.05	28.05	54.00	18.75	V
11784.450	35.14	-31.99	38.98	28.15	54.00	18.86	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17937.850	39.48	-25.50	46.66	18.32	54.00	14.52	H
17941.700	39.22	-25.50	46.66	18.06	54.00	14.78	V
14495.950	36.25	-28.59	42.46	22.38	54.00	17.75	H
13292.000	36.10	-29.49	39.71	25.88	54.00	17.90	V
5363.984	42.54	-27.43	34.01	35.96	54.00	11.46	H
5350.704	42.42	-27.43	34.01	35.84	54.00	11.58	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17972.500	39.45	-25.50	46.66	18.29	54.00	14.55	H
17934.550	39.16	-25.50	46.66	18.00	54.00	14.84	H
14499.800	36.30	-28.59	42.46	22.43	54.00	17.70	H
13285.950	36.28	-29.67	39.55	26.40	54.00	17.72	H
5459.230	42.28	-27.18	34.17	35.29	54.00	11.72	H
5457.520	42.24	-27.18	34.17	35.25	54.00	11.76	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17953.800	39.27	-25.50	46.66	18.11	54.00	14.73	H
17951.050	39.22	-25.50	46.66	18.06	54.00	14.78	H
14499.800	36.07	-28.59	42.46	22.20	54.00	17.93	V
14478.350	35.98	-28.59	42.46	22.11	54.00	18.02	H
11247.650	35.21	-32.36	38.77	28.81	54.00	18.79	H
11824.050	35.17	-31.85	39.05	27.97	54.00	18.83	H

802.11ac-HT40
Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	39.43	-25.50	46.66	18.27	54.00	14.57	H
17945.550	39.32	-25.50	46.66	18.16	54.00	14.68	V
14478.350	35.97	-28.59	42.46	22.10	54.00	18.03	H
13273.300	35.79	-29.67	39.55	25.91	54.00	18.21	H
5149.900	49.85	-27.61	33.67	43.79	54.00	4.15	H
5149.860	49.44	-27.61	33.67	43.38	54.00	4.56	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.200	39.22	-25.50	46.66	18.06	54.00	14.78	V
17927.950	39.04	-25.50	46.66	17.88	54.00	14.96	H
14486.600	36.12	-28.59	42.46	22.25	54.00	17.88	H
14490.450	36.07	-28.59	42.46	22.20	54.00	17.93	H
11799.300	35.10	-31.85	39.05	27.90	54.00	18.90	V
11805.900	35.10	-31.85	39.05	27.90	54.00	18.90	H

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17948.300	40.21	-25.50	46.66	19.05	54.00	13.79	V
17899.900	40.19	-25.50	46.66	19.03	54.00	13.81	V
13263.400	36.97	-29.67	39.55	27.09	54.00	17.03	H
13292.000	36.59	-29.49	39.71	26.37	54.00	17.41	H
11907.650	35.88	-31.85	39.05	28.68	54.00	18.12	V
11793.800	35.55	-31.99	38.98	28.56	54.00	18.45	V

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17965.350	40.45	-25.50	46.66	19.29	54.00	13.55	H
17942.250	40.10	-25.50	46.66	18.94	54.00	13.90	V
14493.750	36.96	-28.59	42.46	23.09	54.00	17.04	V
13292.000	36.66	-29.49	39.71	26.44	54.00	17.34	V
5351.872	43.01	-27.43	34.01	36.43	54.00	10.99	H
5351.568	42.89	-27.43	34.01	36.31	54.00	11.11	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17946.650	39.59	-25.50	46.66	18.43	54.00	14.41	H
17953.800	39.23	-25.50	46.66	18.07	54.00	14.77	H
13338.750	36.25	-29.49	39.71	26.03	54.00	17.75	V
14499.250	36.15	-28.59	42.46	22.28	54.00	17.85	V
5454.490	44.00	-27.18	34.17	37.01	54.00	10.00	H
5459.425	43.98	-27.18	34.17	36.99	54.00	10.02	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.650	39.82	-25.50	46.66	18.66	54.00	14.18	V
17941.700	39.63	-25.50	46.66	18.47	54.00	14.37	H
14494.300	36.32	-28.59	42.46	22.45	54.00	17.68	H
14497.600	36.01	-28.59	42.46	22.14	54.00	17.99	H
11873.550	35.31	-31.85	39.05	28.11	54.00	18.69	V
11769.050	35.27	-31.99	38.98	28.28	54.00	18.73	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17913.650	39.51	-25.50	46.66	18.35	54.00	14.49	H
17959.850	39.42	-25.50	46.66	18.26	54.00	14.58	H
14489.900	36.01	-28.59	42.46	22.14	54.00	17.99	V
14478.350	35.88	-28.59	42.46	22.01	54.00	18.12	V
11891.700	35.36	-31.85	39.05	28.16	54.00	18.64	H
11763.000	35.34	-31.99	38.98	28.35	54.00	18.66	V

802.11ac-HT80
Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17926.300	40.17	-25.50	46.66	19.01	54.00	13.83	V
17958.200	40.01	-25.50	46.66	18.85	54.00	13.99	V
14499.250	36.75	-28.59	42.46	22.88	54.00	17.25	H
13328.300	36.64	-29.49	39.71	26.42	54.00	17.36	H
5137.960	43.34	-27.61	33.67	37.28	54.00	10.66	H
5145.960	43.34	-27.61	33.67	37.28	54.00	10.66	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.300	40.02	-25.50	46.66	18.86	54.00	13.98	V
17979.650	39.97	-25.50	46.66	18.81	54.00	14.03	V
13288.700	36.84	-29.67	39.55	26.96	54.00	17.16	V
13303.000	36.62	-29.49	39.71	26.40	54.00	17.38	V
5354.176	46.09	-27.43	34.01	39.51	54.00	7.91	H
5354.112	45.81	-27.43	34.01	39.23	54.00	8.19	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17959.850	39.21	-25.50	46.66	18.05	54.00	14.79	V
17969.750	39.19	-25.50	46.66	18.03	54.00	14.81	H
14495.950	36.02	-28.59	42.46	22.15	54.00	17.98	H
13267.800	35.96	-29.67	39.55	26.08	54.00	18.04	V
5459.845	51.68	-27.18	34.17	44.69	54.00	2.32	H
5459.545	51.59	-27.18	34.17	44.60	54.00	2.41	H

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17938.950	39.39	-25.50	46.66	18.23	54.00	14.61	H
17962.600	39.14	-25.50	46.66	17.98	54.00	14.86	V
14482.200	36.54	-28.59	42.46	22.67	54.00	17.46	V
14479.450	36.42	-28.59	42.46	22.55	54.00	17.58	V
11745.950	35.47	-31.99	38.98	28.48	54.00	18.53	H
11925.250	35.42	-31.48	39.09	27.81	54.00	18.58	H

PEAK Results:
802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17342.200	50.02	-25.95	44.35	31.61	68.20	18.18	V
17994.500	49.88	-25.50	46.66	28.72	74.00	24.12	H
13646.750	48.45	-29.50	40.43	37.52	68.20	19.75	H
13727.050	48.39	-29.10	40.86	36.62	68.20	19.81	H
5143.440	66.10	-27.61	33.67	60.04	74.00	7.90	H
5145.100	62.97	-27.61	33.67	56.91	74.00	11.03	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17426.900	51.68	-26.85	45.25	33.28	68.20	16.52	H
17355.400	51.11	-25.95	44.35	32.70	68.20	17.09	V
13732.000	48.35	-29.10	40.86	36.58	68.20	19.85	H
14334.800	48.16	-28.42	42.34	34.24	68.20	20.04	H
11855.400	46.06	-31.85	39.05	38.86	74.00	27.94	H
11766.300	46.01	-31.99	38.98	39.02	74.00	27.99	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17419.750	50.59	-26.85	45.25	32.19	68.20	17.61	H
17327.350	50.15	-25.95	44.35	31.74	68.20	18.05	H
14567.450	48.14	-27.29	41.90	33.53	68.20	20.06	V
14124.700	47.95	-28.99	42.00	34.93	68.20	20.25	V
9436.500	45.82	-32.95	37.91	40.85	74.00	28.18	V
11307.050	45.71	-32.36	38.77	39.31	74.00	28.29	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.050	50.84	-25.50	46.66	29.68	74.00	23.16	H
17335.050	50.73	-25.95	44.35	32.32	68.20	17.47	H
13642.900	49.06	-29.50	40.43	38.13	68.20	19.14	H
13739.150	48.09	-29.10	40.86	36.32	68.20	20.11	H
11865.850	45.50	-31.85	39.05	38.30	74.00	28.50	V
11336.750	45.49	-32.42	38.79	39.12	74.00	28.51	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17443.400	50.44	-26.85	45.25	32.04	68.20	17.76	V
17266.300	50.07	-25.95	44.35	31.66	68.20	18.13	H
13664.900	48.25	-29.50	40.43	37.32	68.20	19.95	H
13717.150	48.19	-29.10	40.86	36.42	68.20	20.01	H
11755.850	46.30	-31.99	38.98	39.31	74.00	27.70	V
11750.900	45.88	-31.99	38.98	38.89	74.00	28.12	H

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.350	50.21	-25.50	46.66	29.05	74.00	23.79	V
17258.600	50.19	-25.95	44.35	31.78	68.20	18.01	H
13549.950	48.47	-29.56	39.99	38.04	68.20	19.73	V
14578.450	48.15	-27.29	41.90	33.54	68.20	20.05	H
5374.208	62.86	-27.36	34.09	56.14	74.00	11.14	H
5353.696	59.84	-27.43	34.01	53.26	74.00	14.16	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17898.800	51.83	-25.50	46.66	30.67	74.00	22.17	H
17311.400	51.00	-25.95	44.35	32.59	68.20	17.20	H
13686.900	48.85	-29.50	40.43	37.92	68.20	19.35	H
13732.550	48.45	-29.10	40.86	36.68	68.20	19.75	H
5442.535	61.69	-27.18	34.17	54.70	74.00	12.31	H
5469.940	60.46	-27.18	34.17	53.47	68.20	7.74	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	52.52	-25.50	46.66	31.36	74.00	21.48	H
17441.750	51.34	-26.85	45.25	32.94	68.20	16.86	H
14120.300	49.84	-28.99	42.00	36.82	68.20	18.36	V
13674.800	49.00	-29.50	40.43	38.07	68.20	19.20	V
5728.312	64.26	-27.07	34.31	57.02	68.20	3.94	H
5727.998	64.25	-27.07	34.31	57.01	68.20	3.95	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17440.100	50.10	-26.85	45.25	31.70	68.20	18.10	V
17832.250	50.10	-25.50	46.66	28.94	74.00	23.90	V
13690.750	48.29	-29.50	40.43	37.36	68.20	19.91	V
14061.450	48.16	-29.44	41.66	35.94	68.20	20.04	V
5144.100	63.37	-27.61	33.67	57.31	74.00	10.63	H
5144.660	63.32	-27.61	33.67	57.26	74.00	10.68	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17944.450	50.20	-25.50	46.66	29.04	74.00	23.80	V
17945.550	50.12	-25.50	46.66	28.96	74.00	23.88	V
13717.700	47.98	-29.10	40.86	36.21	68.20	20.22	H
14157.150	47.98	-28.99	42.00	34.96	68.20	20.22	H
11761.350	46.12	-31.99	38.98	39.13	74.00	27.88	H
11918.100	45.74	-31.48	39.09	38.13	74.00	28.26	V

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17226.150	49.91	-25.95	44.35	31.50	68.20	18.29	H
17345.500	49.81	-25.95	44.35	31.40	68.20	18.39	H
13736.400	48.35	-29.10	40.86	36.58	68.20	19.85	V
14097.750	48.05	-29.44	41.66	35.83	68.20	20.15	H
11254.800	46.30	-32.36	38.77	39.90	74.00	27.70	V
11766.300	45.95	-31.99	38.98	38.96	74.00	28.05	V

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17254.200	51.47	-25.95	44.35	33.06	68.20	16.73	V
17375.750	51.44	-25.95	44.35	33.03	68.20	16.76	V
13675.350	49.40	-29.50	40.43	38.47	68.20	18.80	H
13715.500	48.73	-29.10	40.86	36.96	68.20	19.47	V
11870.800	46.89	-31.85	39.05	39.69	74.00	27.11	H
11746.500	46.87	-31.99	38.98	39.88	74.00	27.13	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17947.200	50.87	-25.50	46.66	29.71	74.00	23.13	H
17988.450	50.85	-25.50	46.66	29.69	74.00	23.15	V
13657.750	49.01	-29.50	40.43	38.08	68.20	19.19	V
13716.050	48.66	-29.10	40.86	36.89	68.20	19.54	V
11793.800	46.15	-31.99	38.98	39.16	74.00	27.85	H
10839.550	45.87	-32.33	38.59	39.61	74.00	28.13	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17437.900	51.17	-26.85	45.25	32.77	68.20	17.03	H
17629.850	50.66	-25.74	45.95	30.45	68.20	17.54	H
13674.250	49.05	-29.50	40.43	38.12	68.20	19.15	V
13726.500	48.49	-29.10	40.86	36.72	68.20	19.71	V
5350.384	60.89	-27.43	34.01	54.31	74.00	13.11	H
5357.280	59.56	-27.43	34.01	52.98	74.00	14.44	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17902.650	50.56	-25.50	46.66	29.40	74.00	23.44	H
17382.350	50.16	-25.95	44.35	31.75	68.20	18.04	H
13645.100	48.91	-29.50	40.43	37.98	68.20	19.29	V
13728.150	48.45	-29.10	40.86	36.68	68.20	19.75	V
5443.180	61.45	-27.18	34.17	54.46	74.00	12.55	V
5464.015	61.91	-27.18	34.17	54.92	68.20	6.29	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17358.700	50.38	-25.95	44.35	31.97	68.20	17.82	H
17434.600	49.98	-26.85	45.25	31.58	68.20	18.22	V
13606.600	48.88	-29.50	40.43	37.95	68.20	19.32	H
13573.600	48.53	-29.50	40.43	37.60	68.20	19.67	V
5726.562	64.73	-27.07	34.31	57.49	68.20	3.47	H
5726.545	64.48	-27.07	34.31	57.24	68.20	3.72	H

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17941.150	50.22	-25.50	46.66	29.06	74.00	23.78	H
17370.800	50.20	-25.95	44.35	31.79	68.20	18.00	H
13635.750	48.67	-29.50	40.43	37.74	68.20	19.53	V
13678.650	48.36	-29.50	40.43	37.43	68.20	19.84	V
5115.620	60.95	-27.61	33.67	54.89	74.00	13.05	H
5147.160	60.53	-27.61	33.67	54.47	74.00	13.47	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17927.400	50.64	-25.50	46.66	29.48	74.00	23.36	V
17354.300	50.36	-25.95	44.35	31.95	68.20	17.84	H
13689.650	48.36	-29.50	40.43	37.43	68.20	19.84	H
13746.850	47.90	-29.10	40.86	36.13	68.20	20.30	V
11406.050	45.78	-32.42	38.79	39.41	74.00	28.22	H
11677.200	45.69	-32.31	38.91	39.10	74.00	28.31	H

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17251.450	51.88	-25.95	44.35	33.47	68.20	16.32	H
17336.150	51.54	-25.95	44.35	33.13	68.20	16.66	H
14107.100	48.77	-29.44	41.66	36.55	68.20	19.43	H
13635.200	48.73	-29.50	40.43	37.80	68.20	19.47	H
11247.100	46.45	-32.36	38.77	40.05	74.00	27.55	H
11802.600	45.98	-31.85	39.05	38.78	74.00	28.02	V

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17910.900	51.36	-25.50	46.66	30.20	74.00	22.64	V
17518.200	51.33	-26.85	45.25	32.93	68.20	16.87	H
13745.750	49.26	-29.10	40.86	37.49	68.20	18.94	V
13747.950	48.84	-29.10	40.86	37.07	68.20	19.36	V
5363.856	60.35	-27.43	34.01	53.77	74.00	13.65	H
5353.248	57.10	-27.43	34.01	50.52	74.00	16.90	H

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17448.900	50.64	-26.85	45.25	32.24	68.20	17.56	H
17231.100	50.48	-25.95	44.35	32.07	68.20	17.72	H
14590.000	48.23	-27.29	41.90	33.62	68.20	19.97	V
13725.950	48.10	-29.10	40.86	36.33	68.20	20.10	H
5450.860	60.05	-27.18	34.17	53.06	74.00	13.95	H
5469.625	58.88	-27.18	34.17	51.89	68.20	9.32	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17998.350	50.27	-25.50	46.66	29.11	74.00	23.73	H
17359.800	50.24	-25.95	44.35	31.83	68.20	17.96	V
13748.500	48.63	-29.10	40.86	36.86	68.20	19.57	V
13719.350	48.42	-29.10	40.86	36.65	68.20	19.78	H
11891.700	46.46	-31.85	39.05	39.26	74.00	27.54	V
11244.350	45.91	-32.36	38.77	39.51	74.00	28.09	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17439.000	50.17	-26.85	45.25	31.77	68.20	18.03	H
17366.400	50.05	-25.95	44.35	31.64	68.20	18.15	V
13801.300	48.77	-29.10	40.86	37.00	68.20	19.43	V
13743.000	48.52	-29.10	40.86	36.75	68.20	19.68	H
5729.905	58.02	-27.07	34.31	50.78	68.20	10.18	H
5821.623	57.94	-27.07	34.35	50.65	68.20	10.26	H

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17916.950	50.69	-25.50	46.66	29.53	74.00	23.31	V
17431.300	50.28	-26.85	45.25	31.88	68.20	17.92	H
14202.800	48.04	-28.99	42.00	35.02	68.20	20.16	V
14577.350	48.00	-27.29	41.90	33.39	68.20	20.20	H
5146.920	63.55	-27.61	33.67	57.49	74.00	10.45	H
5146.120	63.50	-27.61	33.67	57.44	74.00	10.50	H

Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17935.100	50.24	-25.50	46.66	29.08	74.00	23.76	H
17956.550	50.06	-25.50	46.66	28.90	74.00	23.94	V
14589.450	48.57	-27.29	41.90	33.96	68.20	19.63	V
13613.200	48.21	-29.50	40.43	37.28	68.20	19.99	H
11852.100	45.83	-31.85	39.05	38.63	74.00	28.17	H
11873.000	45.67	-31.85	39.05	38.47	74.00	28.33	H

Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17436.800	51.29	-26.85	45.25	32.89	68.20	16.91	H
17858.650	50.32	-25.50	46.66	29.16	74.00	23.68	H
13695.150	49.82	-29.10	40.86	38.05	68.20	18.38	V
13658.300	48.48	-29.50	40.43	37.55	68.20	19.72	H
11766.850	46.10	-31.99	38.98	39.11	74.00	27.90	V
11792.150	45.90	-31.99	38.98	38.91	74.00	28.10	H

Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17251.450	50.78	-25.95	44.35	32.37	68.20	17.42	H
17935.100	50.49	-25.50	46.66	29.33	74.00	23.51	H
14101.600	48.23	-29.44	41.66	36.01	68.20	19.97	H
13624.200	47.95	-29.50	40.43	37.02	68.20	20.25	V
11748.150	46.32	-31.99	38.98	39.33	74.00	27.68	H
11783.900	45.92	-31.99	38.98	38.93	74.00	28.08	H

Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17987.900	50.09	-25.50	46.66	28.93	74.00	23.91	H
17383.450	50.00	-25.95	44.35	31.59	68.20	18.20	V
13622.550	47.96	-29.50	40.43	37.03	68.20	20.24	H
14040.000	47.88	-29.44	41.66	35.66	68.20	20.32	H
11786.650	45.94	-31.99	38.98	38.95	74.00	28.06	V
11864.750	45.30	-31.85	39.05	38.10	74.00	28.70	V

Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17362.550	50.01	-25.95	44.35	31.60	68.20	18.19	H
17912.550	49.97	-25.50	46.66	28.81	74.00	24.03	V
13754.550	48.54	-29.10	40.86	36.77	68.20	19.66	H
13731.450	48.41	-29.10	40.86	36.64	68.20	19.79	V
5357.024	61.03	-27.43	34.01	54.45	74.00	12.97	H
5356.272	59.83	-27.43	34.01	53.25	74.00	14.17	H

Channel 100

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.200	50.51	-25.50	46.66	29.35	74.00	23.49	H
17347.700	50.23	-25.95	44.35	31.82	68.20	17.97	V
13671.500	48.49	-29.50	40.43	37.56	68.20	19.71	V
13708.350	48.20	-29.10	40.86	36.43	68.20	20.00	H
5441.290	61.86	-27.18	34.17	54.87	74.00	12.14	H
5465.905	66.07	-27.18	34.17	59.08	68.20	2.13	H

Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17964.800	50.26	-25.50	46.66	29.10	74.00	23.74	V
17340.550	49.86	-25.95	44.35	31.45	68.20	18.34	H
14168.150	47.90	-28.99	42.00	34.88	68.20	20.30	H
13721.000	47.87	-29.10	40.86	36.10	68.20	20.33	H
5727.998	63.94	-27.07	34.31	56.70	68.20	4.26	H
5729.275	63.90	-27.07	34.31	56.66	68.20	4.30	H

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17440.650	50.07	-26.85	45.25	31.67	68.20	18.13	V
17358.700	49.71	-25.95	44.35	31.30	68.20	18.49	V
14090.600	49.59	-29.44	41.66	37.37	68.20	18.61	H
13721.550	48.20	-29.10	40.86	36.43	68.20	20.00	H
5147.720	59.61	-27.61	33.67	53.55	74.00	14.39	H
5149.860	59.37	-27.61	33.67	53.31	74.00	14.63	H

Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17356.500	50.78	-25.95	44.35	32.37	68.20	17.42	V
17962.600	50.65	-25.50	46.66	29.49	74.00	23.35	H
13676.450	48.10	-29.50	40.43	37.17	68.20	20.10	V
13608.250	48.06	-29.50	40.43	37.13	68.20	20.14	V
11355.450	46.22	-32.42	38.79	39.85	74.00	27.78	H
11767.950	46.03	-31.99	38.98	39.04	74.00	27.97	H

Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17136.500	51.36	-26.60	43.36	34.60	68.20	16.84	V
17423.600	51.13	-26.85	45.25	32.73	68.20	17.07	H
13675.900	48.81	-29.50	40.43	37.88	68.20	19.39	V
14098.850	48.61	-29.44	41.66	36.39	68.20	19.59	H
11725.600	46.49	-31.99	38.98	39.50	74.00	27.51	H
10781.800	46.30	-32.77	38.49	40.58	74.00	27.70	H

Channel 62

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17535.250	50.76	-26.85	45.25	32.36	68.20	17.44	V
17013.300	50.54	-26.32	42.36	34.49	68.20	17.66	V
13649.500	48.97	-29.50	40.43	38.04	68.20	19.23	V
14102.150	48.70	-29.44	41.66	36.48	68.20	19.50	H
5353.200	57.08	-27.43	34.01	50.50	74.00	16.92	H
5357.440	57.05	-27.43	34.01	50.47	74.00	16.95	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17358.700	50.57	-25.95	44.35	32.16	68.20	17.63	H
17428.550	50.30	-26.85	45.25	31.90	68.20	17.90	H
13730.900	48.77	-29.10	40.86	37.00	68.20	19.43	V
13699.000	48.69	-29.10	40.86	36.92	68.20	19.51	H
5456.395	58.08	-27.18	34.17	51.09	74.00	15.92	H
5468.380	58.58	-27.18	34.17	51.59	68.20	9.62	H

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.600	51.48	-25.50	46.66	30.32	74.00	22.52	H
17219.550	50.79	-25.95	44.35	32.38	68.20	17.41	H
14069.700	48.59	-29.44	41.66	36.37	68.20	19.61	H
14547.100	48.36	-27.29	41.90	33.75	68.20	19.84	H
10676.200	46.59	-32.76	38.38	40.97	74.00	27.41	V
11947.250	45.93	-31.48	39.09	38.32	74.00	28.07	H

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17454.400	50.69	-26.85	45.25	32.29	68.20	17.51	H
17379.050	50.37	-25.95	44.35	31.96	68.20	17.83	V
13719.900	47.86	-29.10	40.86	36.09	68.20	20.34	H
14621.350	47.86	-27.29	41.90	33.25	68.20	20.34	V
5735.102	56.22	-27.07	34.31	48.98	68.20	11.98	H
5725.583	55.82	-27.07	34.31	48.58	68.20	12.38	H

802.11ac-HT80
Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17533.60	51.52	-26.85	45.25	33.12	68.20	16.68	H
17366.40	51.39	-25.95	44.35	32.98	68.20	16.81	H
14095.55	48.61	-29.44	41.66	36.39	68.20	19.59	V
13793.05	48.35	-29.10	40.86	36.58	68.20	19.85	H
5147.66	55.37	-27.61	33.67	49.31	74.00	18.63	H
5147.06	55.00	-27.61	33.67	48.94	74.00	19.00	H

Channel 58

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.250	51.44	-25.50	46.66	30.28	74.00	22.56	H
17988.450	51.20	-25.50	46.66	30.04	74.00	22.80	V
13692.950	48.57	-29.50	40.43	37.64	68.20	19.63	V
13709.450	48.41	-29.10	40.86	36.64	68.20	19.79	V
5356.272	57.51	-27.43	34.01	50.93	74.00	16.49	H
5351.472	57.43	-27.43	34.01	50.85	74.00	16.57	H

Channel 106

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17899.350	50.03	-25.50	46.66	28.87	74.00	23.97	H
17350.450	49.99	-25.95	44.35	31.58	68.20	18.21	H
13655.000	48.13	-29.50	40.43	37.20	68.20	20.07	V
13642.900	47.97	-29.50	40.43	37.04	68.20	20.23	V
5451.595	62.50	-27.18	34.17	55.51	74.00	11.50	H
5465.125	63.84	-27.18	34.17	56.85	68.20	4.36	H

Channel 122

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17932.350	50.44	-25.50	46.66	29.28	74.00	23.56	H
17881.200	49.81	-25.50	46.66	28.65	74.00	24.19	V
14584.500	48.50	-27.29	41.90	33.89	68.20	19.70	V
13714.400	48.19	-29.10	40.86	36.42	68.20	20.01	V
5731.165	53.07	-27.07	34.31	45.83	68.20	15.13	H
5748.140	52.41	-27.07	34.31	45.17	68.20	15.79	H

Conclusion: PASS

Sample calculation: 17932.350MHz

$$\text{Peak ERP(dBm)} = P_{\text{Mea}}(29.28\text{dBuV/m}) + \text{Cable Loss}(-25.50) + \text{Antenna Factor}(46.66) = 50.44 \text{ dBuV/m}$$

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

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger AE5		
		802.11a	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 μ V)	Result (dB μ V)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	67 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.

EUT ID: UT71a

Conclusion: PASS

Test graphs as below:

Traffic:

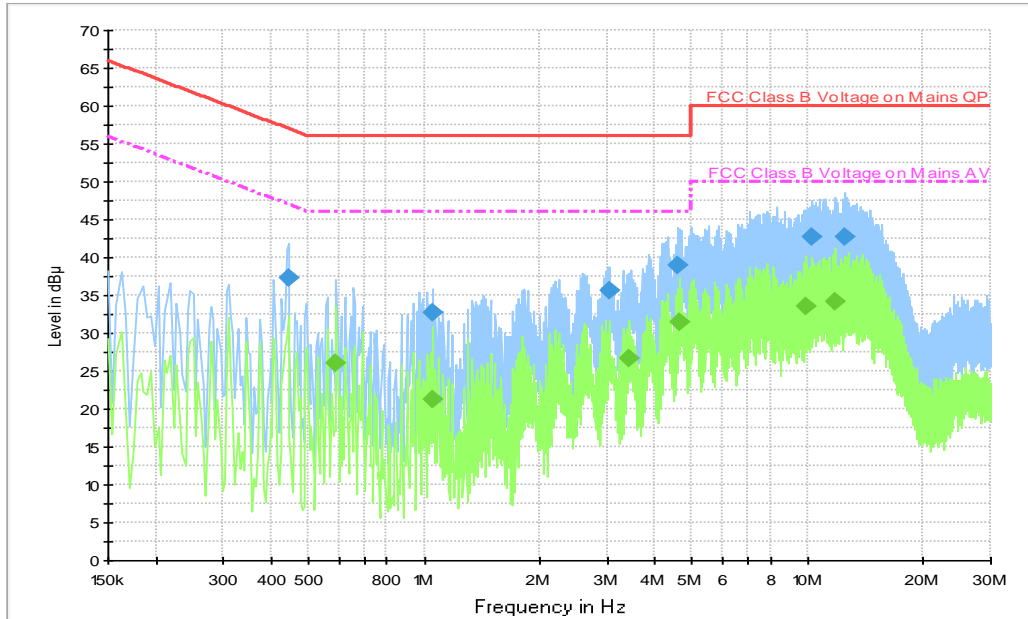


Fig.58 Conducted Emission (802.11a, Ch36, TX)

Note1: 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)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.442000	37.3	2000.0	9.000	On	L1	19.7	19.7	57.0
1.054000	32.7	2000.0	9.000	On	L1	19.7	23.3	56.0
3.030000	35.7	2000.0	9.000	On	L1	19.6	20.3	56.0
4.582000	39.0	2000.0	9.000	On	L1	19.6	17.0	56.0
10.266000	42.8	2000.0	9.000	On	L1	19.7	17.2	60.0
12.538000	42.7	2000.0	9.000	On	L1	19.7	17.3	60.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.590000	26.0	2000.0	9.000	On	L1	19.7	20.0	46.0
1.054000	21.3	2000.0	9.000	On	L1	19.7	24.7	46.0
3.438000	26.7	2000.0	9.000	On	L1	19.6	19.3	46.0
4.642000	31.4	2000.0	9.000	On	L1	19.6	14.6	46.0
9.890000	33.6	2000.0	9.000	On	L1	19.7	16.4	50.0
11.854000	34.1	2000.0	9.000	On	L1	19.7	15.9	50.0

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

Idle:

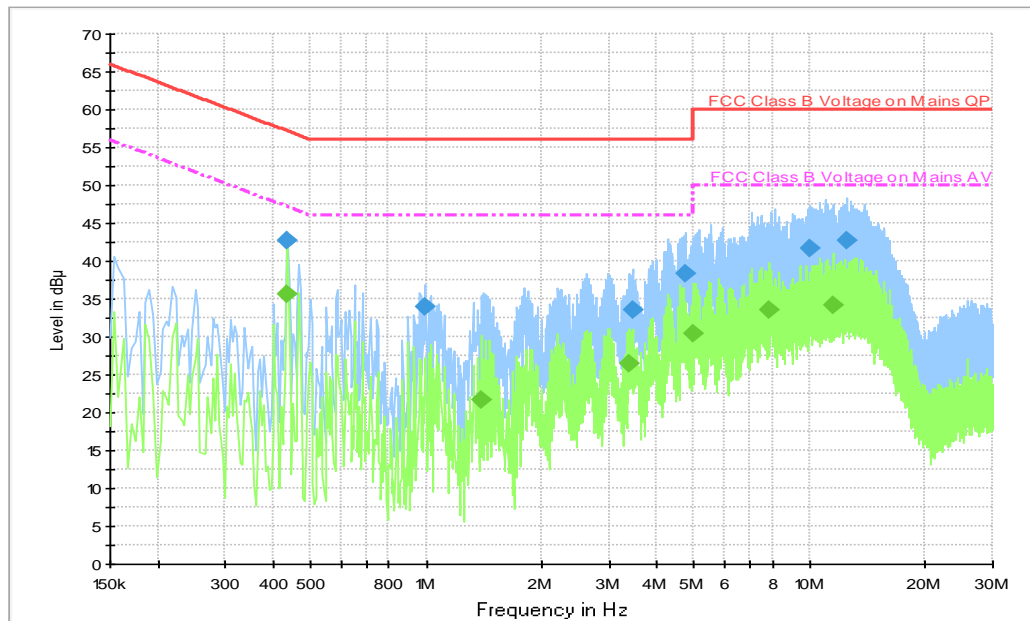


Fig.59 Conducted Emission(802.11a, IDLE)

Note1: 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)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.434000	42.7	2000.0	9.000	On	L1	19.7	14.4	57.2
0.994000	34.0	2000.0	9.000	On	L1	19.7	22.0	56.0
3.446000	33.6	2000.0	9.000	On	L1	19.6	22.4	56.0
4.726000	38.3	2000.0	9.000	On	L1	19.6	17.7	56.0
9.998000	41.7	2000.0	9.000	On	L1	19.7	18.3	60.0
12.546000	42.6	2000.0	9.000	On	L1	19.7	17.4	60.0

Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.434000	35.5	2000.0	9.000	On	L1	19.7	11.6	47.2
1.394000	21.6	2000.0	9.000	On	L1	19.6	24.4	46.0
3.390000	26.5	2000.0	9.000	On	L1	19.6	19.5	46.0
4.958000	30.5	2000.0	9.000	On	L1	19.6	15.5	46.0
7.814000	33.6	2000.0	9.000	On	L1	19.7	16.4	50.0
11.546000	34.2	2000.0	9.000	On	L1	19.7	15.8	50.0

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

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	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.60	17.16	P
	5200 MHz	Fig.61	17.20	P
	5240 MHz	Fig.62	17.12	P
802.11n HT20	5180 MHz	Fig.63	18.28	P
	5200 MHz	Fig.64	18.28	P
	5240 MHz	Fig.65	18.28	P
802.11ac HT40	5190 MHz	Fig.66	36.48	P
	5230 MHz	Fig.67	36.32	P
802.11ac HT80	5210 MHz	Fig.68	75.84	P

Conclusion: PASS
Test graphs as below:

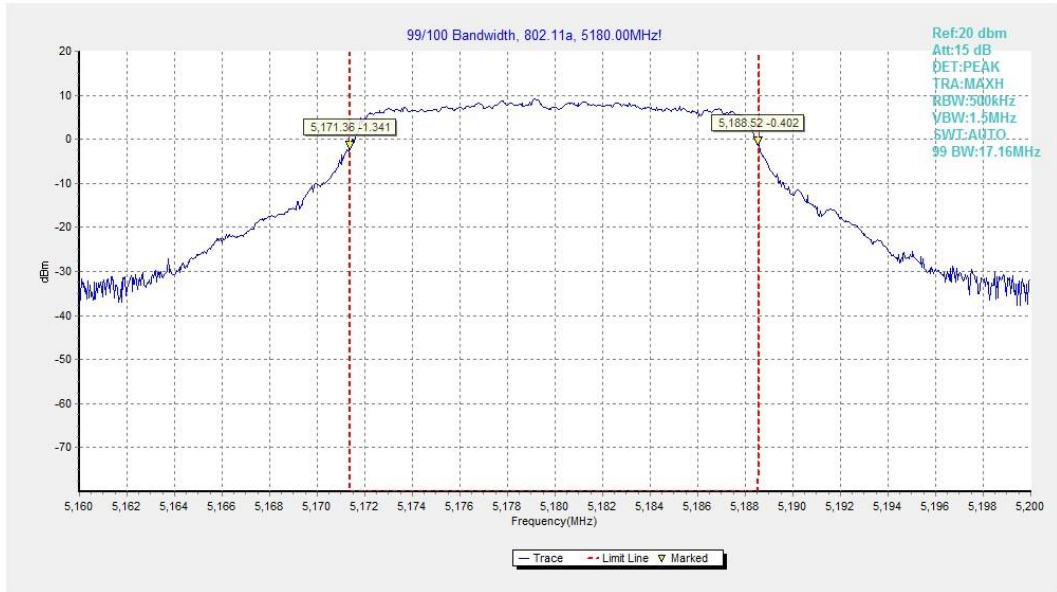


Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)

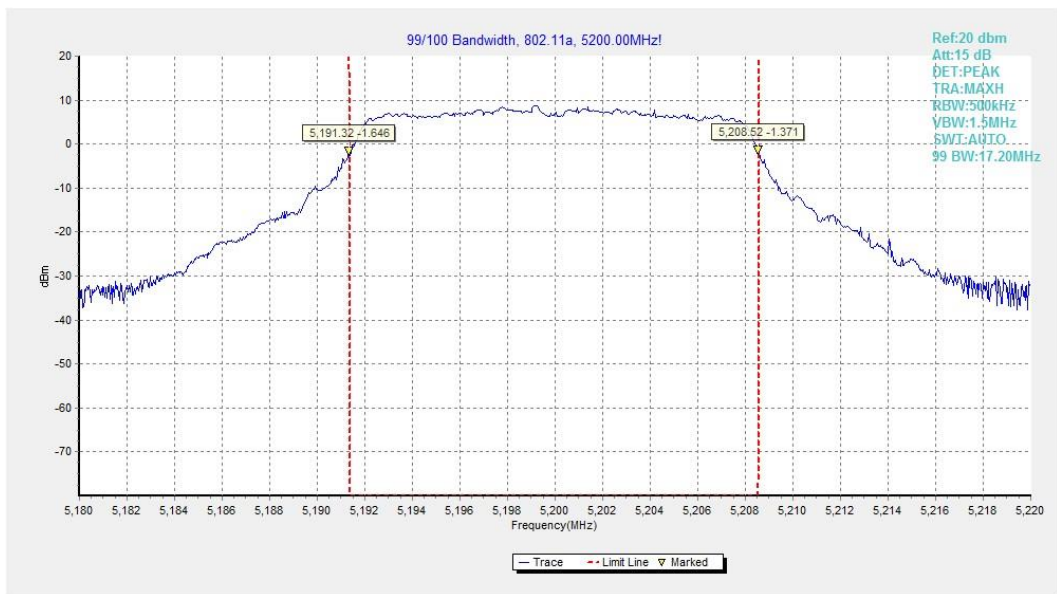


Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)

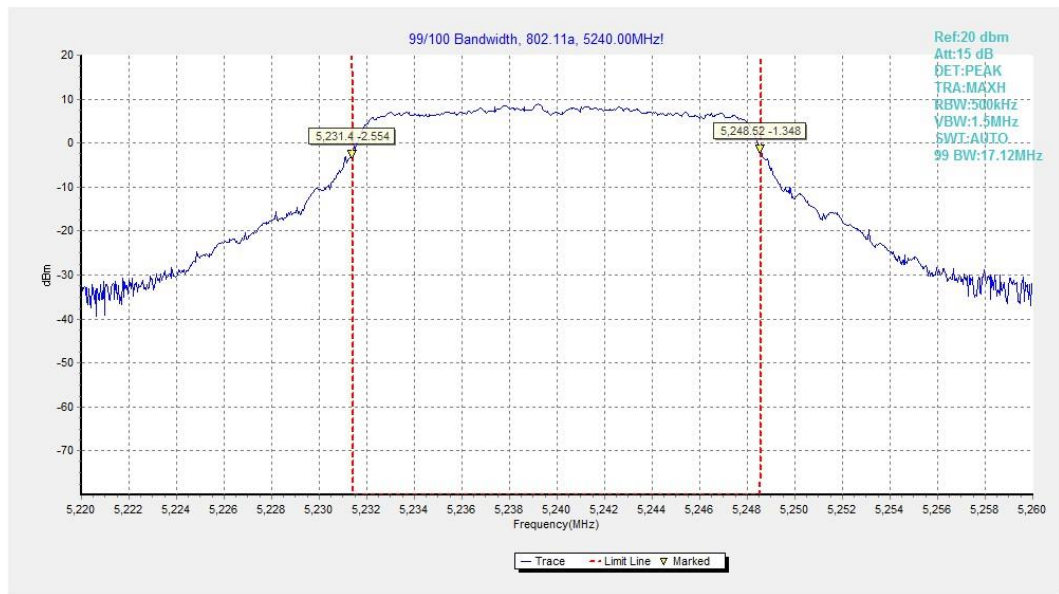


Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)



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



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

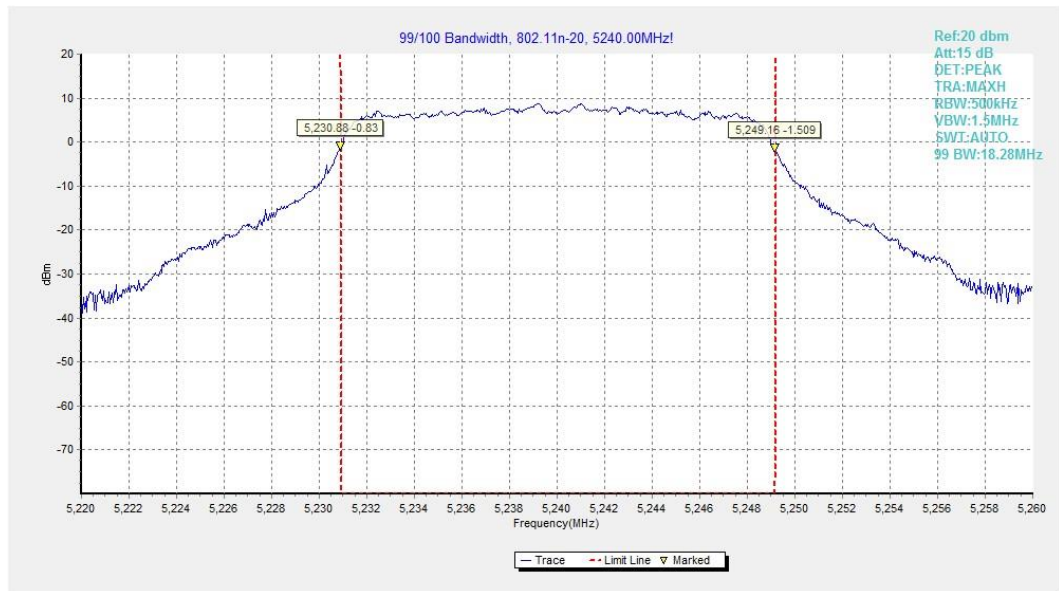


Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

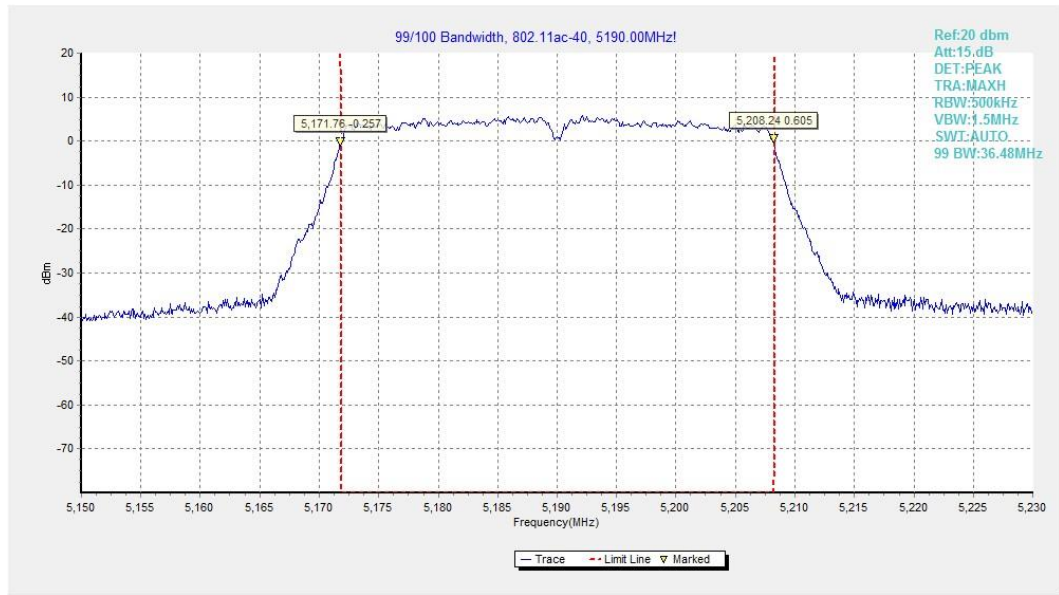


Fig.66 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)

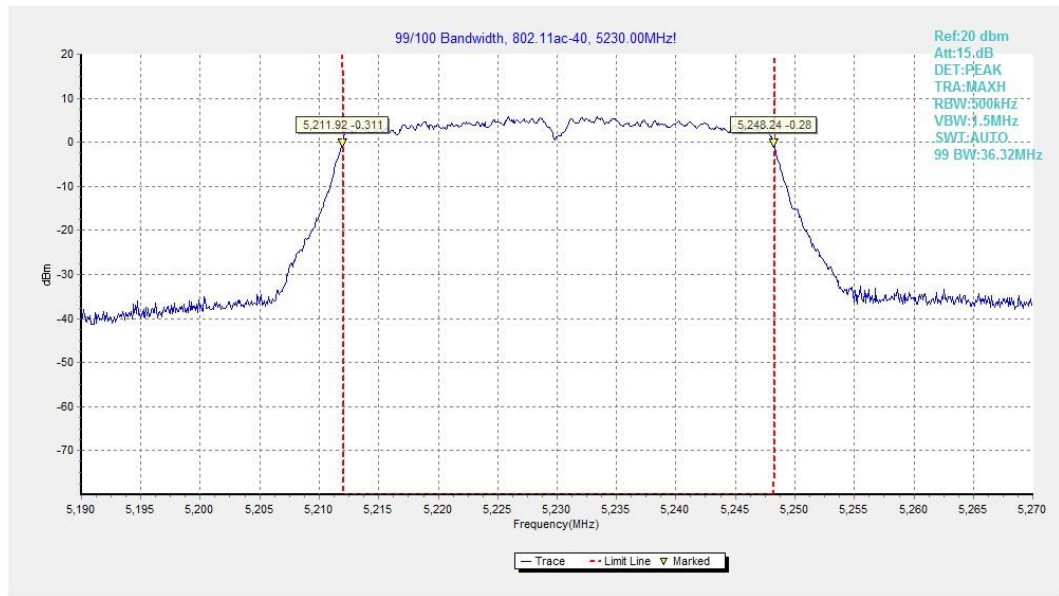


Fig.67 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)

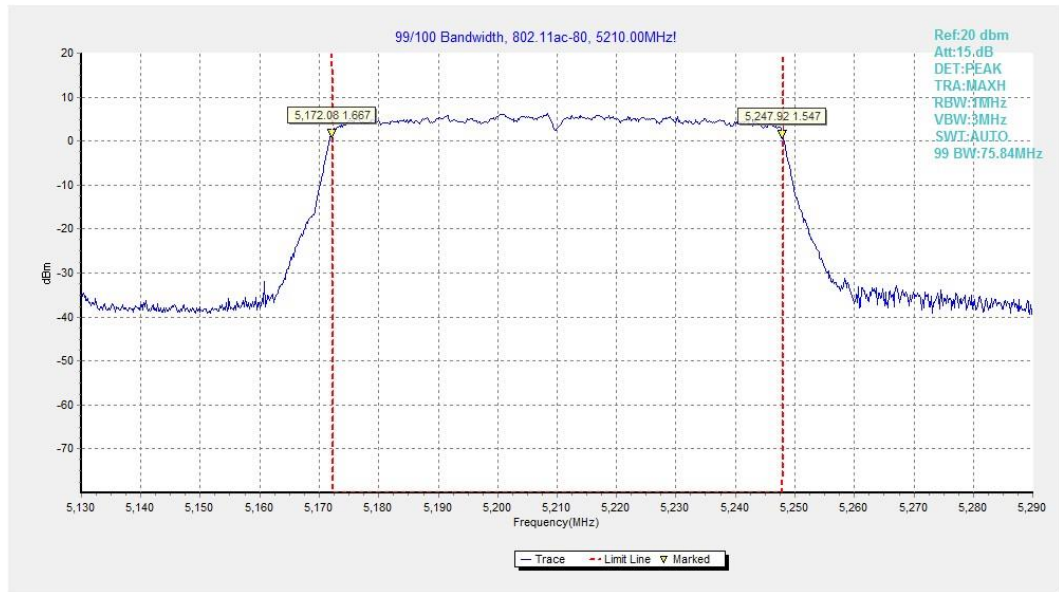


Fig.68 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

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: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate



*** END OF REPORT BODY ***