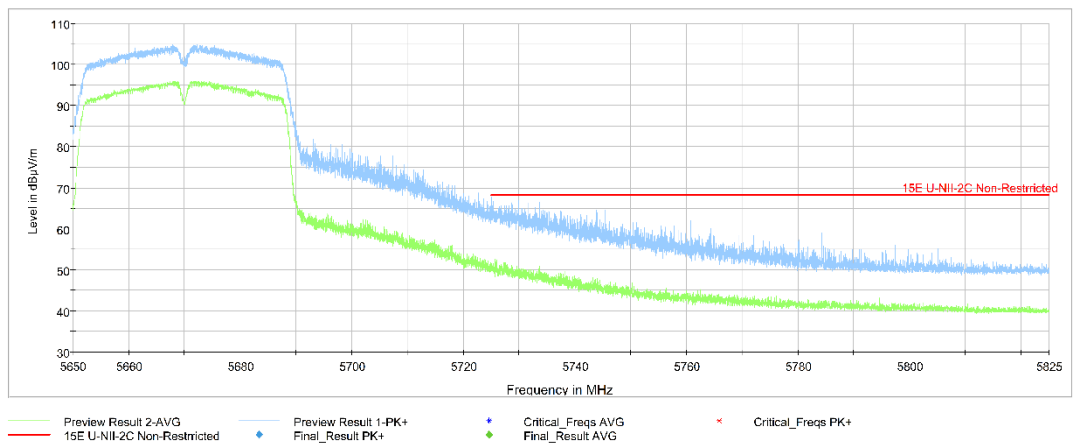
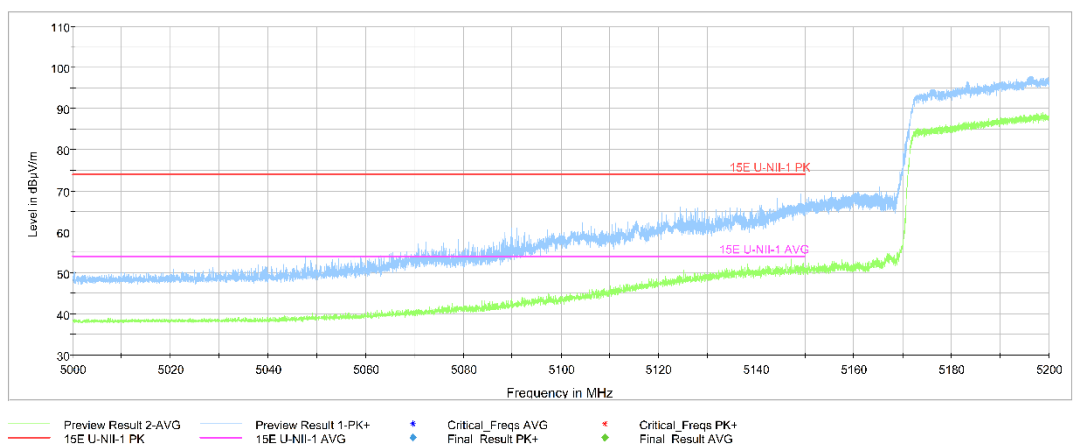


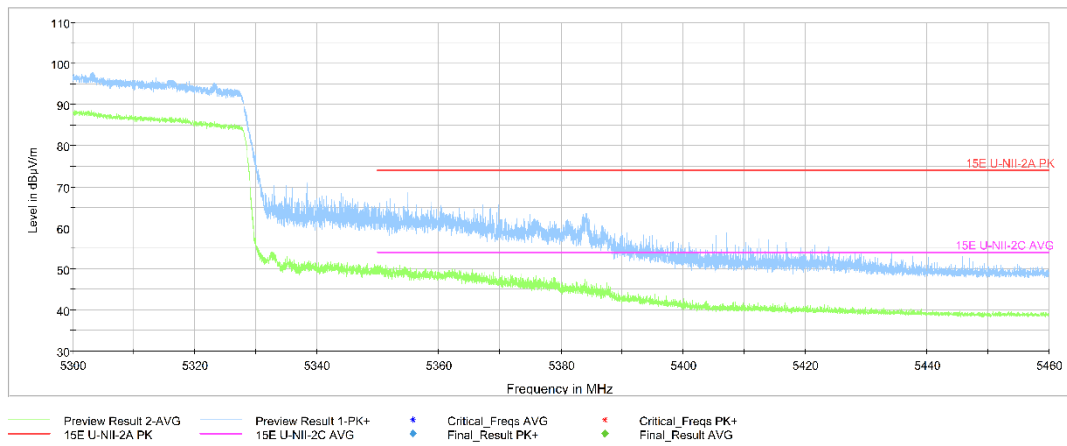
**Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)**



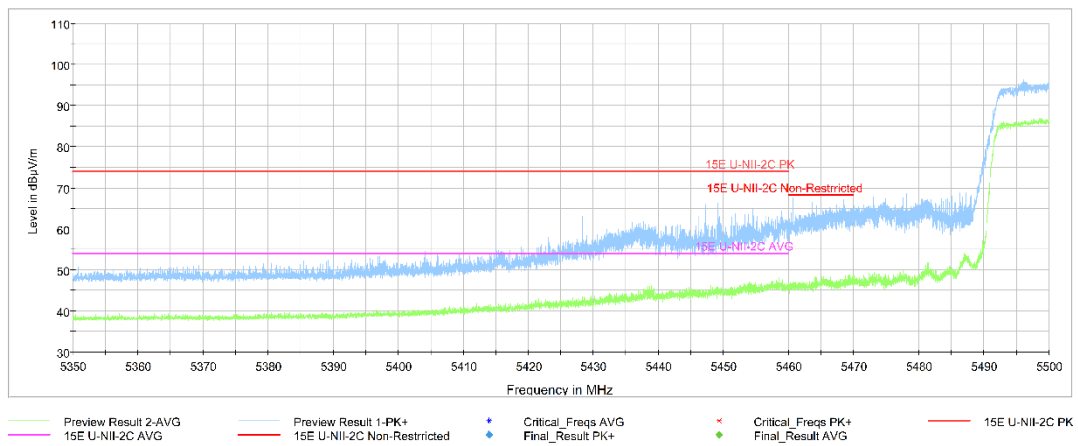
**Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)**



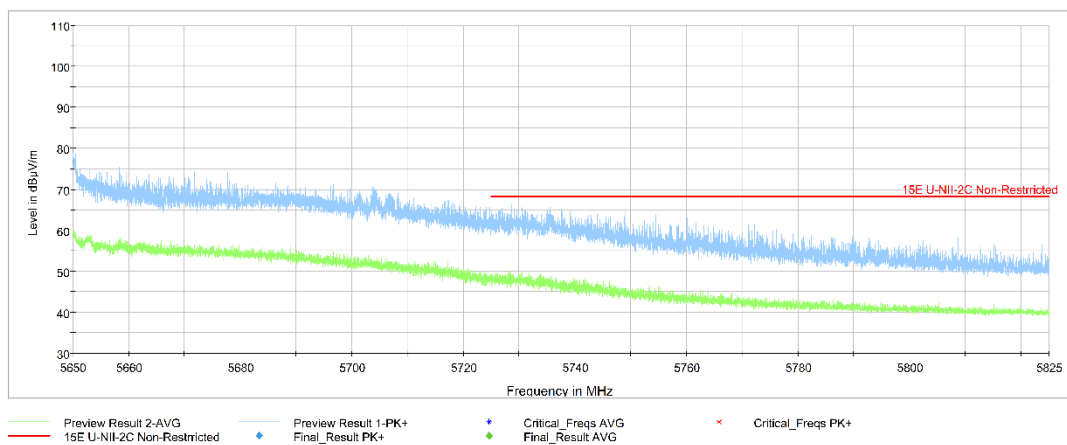
**Fig.54 Band Edges (802.11ac-HT80 Ch42 , 5210MHz)**



**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

### Measurement Results:

**802.11a mode**

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

**802.11n-HT20 mode**

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

**802.11n-HT40 mode**

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

**802.11ac-HT20 mode**

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

**802.11ac-HT40 mode**

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



**802.11ac-HT80 mode**

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11ac – HT80	42(5210MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	58(5290MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
	106(5530MHz)	26.5 GHz ~ 40 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
	122(5610MHz)	7 GHz ~ 18 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
			7 GHz ~ 18 GHz	---

**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)
17929.050	39.62	-25.50	46.66	18.46	54.00	14.38	V
17932.900	39.54	-25.50	46.66	18.38	54.00	14.46	V
14489.350	36.16	-28.59	42.46	22.29	54.00	17.84	V
13298.600	35.90	-29.49	39.71	25.68	54.00	18.10	V
5149.980	48.54	-27.61	33.67	42.48	54.00	5.46	H
5149.700	48.47	-27.61	33.67	42.41	54.00	5.53	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)
17936.200	39.74	-25.50	46.66	18.58	54.00	14.26	V
17937.850	39.45	-25.50	46.66	18.29	54.00	14.55	V
13289.250	36.33	-29.67	39.55	26.45	54.00	17.67	V
14487.700	36.09	-28.59	42.46	22.22	54.00	17.91	V
11399.450	35.48	-32.42	38.79	29.11	54.00	18.52	V
11888.400	35.37	-31.85	39.05	28.17	54.00	18.63	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)
17949.400	39.91	-25.50	46.66	18.75	54.00	14.09	V
17959.300	39.52	-25.50	46.66	18.36	54.00	14.48	H
13316.200	36.21	-29.49	39.71	25.99	54.00	17.79	V
13325.550	36.17	-29.49	39.71	25.95	54.00	17.83	V
11825.150	35.53	-31.85	39.05	28.33	54.00	18.47	V
11783.350	35.50	-31.99	38.98	28.51	54.00	18.50	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)
17942.800	39.61	-25.50	46.66	18.45	54.00	14.39	V
17991.750	39.43	-25.50	46.66	18.27	54.00	14.57	V
13303.550	36.32	-29.49	39.71	26.10	54.00	17.68	V
14498.150	36.12	-28.59	42.46	22.25	54.00	17.88	V
11912.050	35.72	-31.85	39.05	28.52	54.00	18.28	V
11780.600	35.52	-31.99	38.98	28.53	54.00	18.48	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)
17962.600	39.40	-25.50	46.66	18.24	54.00	14.60	H
17940.600	39.37	-25.50	46.66	18.21	54.00	14.63	H
13299.150	36.18	-29.49	39.71	25.96	54.00	17.82	V
13329.400	35.99	-29.49	39.71	25.77	54.00	18.01	V
11911.500	35.31	-31.85	39.05	28.11	54.00	18.69	V
11778.950	35.29	-31.99	38.98	28.30	54.00	18.71	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)
10641.000	41.45	-32.76	38.38	35.83	54.00	12.55	H
10638.250	40.86	-32.76	38.38	35.24	54.00	13.14	H
17991.200	39.38	-25.50	46.66	18.22	54.00	14.62	V
17943.900	39.33	-25.50	46.66	18.17	54.00	14.67	V
5350.096	53.60	-27.43	34.01	47.02	54.00	0.40	H
5350.000	53.49	-27.43	34.01	46.91	54.00	0.51	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)
11000.150	48.90	-32.82	38.70	43.02	54.00	5.10	H
11001.800	48.15	-32.49	38.72	41.91	54.00	5.85	H
17941.150	39.29	-25.50	46.66	18.13	54.00	14.71	H
17931.250	39.23	-25.50	46.66	18.07	54.00	14.77	V
5455.465	45.30	-27.18	34.17	38.31	54.00	8.70	H
5459.890	45.16	-27.18	34.17	38.17	54.00	8.84	H

## Channel 120

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)
11202.000	50.61	-32.60	38.75	44.47	54.00	3.39	H
11200.900	50.53	-32.60	38.75	44.39	54.00	3.47	H
17963.150	39.35	-25.50	46.66	18.19	54.00	14.65	V
17985.700	39.26	-25.50	46.66	18.10	54.00	14.74	V
14498.700	36.19	-28.59	42.46	22.32	54.00	17.81	H
14477.250	36.14	-28.59	42.46	22.27	54.00	17.86	V

## 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)
11398.900	51.56	-32.42	38.79	45.19	54.00	2.44	H
11402.750	50.87	-32.42	38.79	44.50	54.00	3.13	H
17962.600	40.21	-25.50	46.66	19.05	54.00	13.79	V
17952.700	40.18	-25.50	46.66	19.02	54.00	13.82	V
13301.900	36.81	-29.49	39.71	26.59	54.00	17.19	V
13304.650	36.80	-29.49	39.71	26.58	54.00	17.20	V

**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)
17953.800	39.45	-25.50	46.66	18.29	54.00	14.55	V
17985.150	39.39	-25.50	46.66	18.23	54.00	14.61	V
13314.550	36.20	-29.49	39.71	25.98	54.00	17.80	V
12677.100	36.11	-30.47	39.06	27.52	54.00	17.89	V
5149.440	53.91	-27.61	33.67	47.85	54.00	0.09	H
5149.700	53.29	-27.61	33.67	47.23	54.00	0.71	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	39.30	-25.50	46.66	18.14	54.00	14.70	V
17956.550	39.23	-25.50	46.66	18.07	54.00	14.77	V
14494.300	36.49	-28.59	42.46	22.62	54.00	17.51	V
14497.600	36.11	-28.59	42.46	22.24	54.00	17.89	H
11804.800	35.50	-31.85	39.05	28.30	54.00	18.50	V
11770.700	35.38	-31.99	38.98	28.39	54.00	18.62	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)
17947.200	39.36	-25.50	46.66	18.20	54.00	14.64	H
17945.550	39.32	-25.50	46.66	18.16	54.00	14.68	V
14497.600	36.32	-28.59	42.46	22.45	54.00	17.68	V
14496.500	36.24	-28.59	42.46	22.37	54.00	17.76	V
11912.050	35.56	-31.85	39.05	28.36	54.00	18.44	V
11888.400	35.37	-31.85	39.05	28.17	54.00	18.63	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)
17935.100	39.31	-25.50	46.66	18.15	54.00	14.69	H
17968.100	39.25	-25.50	46.66	18.09	54.00	14.75	V
13320.600	36.59	-29.49	39.71	26.37	54.00	17.41	V
13282.650	36.15	-29.67	39.55	26.27	54.00	17.85	V
11820.200	35.64	-31.85	39.05	28.44	54.00	18.36	V
11780.600	35.45	-31.99	38.98	28.46	54.00	18.55	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)
17960.400	39.54	-25.50	46.66	18.38	54.00	14.46	V
17913.100	39.47	-25.50	46.66	18.31	54.00	14.53	V
13306.850	36.30	-29.49	39.71	26.08	54.00	17.70	V
13323.350	36.06	-29.49	39.71	25.84	54.00	17.94	V
11244.900	35.42	-32.36	38.77	29.02	54.00	18.58	V
11811.950	35.33	-31.85	39.05	28.13	54.00	18.67	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)
10639.900	41.16	-32.76	38.38	35.54	54.00	12.84	H
10638.800	41.14	-32.76	38.38	35.52	54.00	12.86	H
17930.150	39.41	-25.50	46.66	18.25	54.00	14.59	V
17938.400	39.32	-25.50	46.66	18.16	54.00	14.68	V
14499.800	36.46	-28.59	42.46	22.59	54.00	17.54	V
13327.750	36.15	-29.49	39.71	25.93	54.00	17.85	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)
10999.600	48.20	-32.82	38.70	42.32	54.00	5.80	H
11001.250	47.91	-32.82	38.70	42.03	54.00	6.09	H
17920.250	39.73	-25.50	46.66	18.57	54.00	14.27	V
17957.100	39.20	-25.50	46.66	18.04	54.00	14.80	H
5459.215	44.05	-27.18	34.17	37.06	54.00	9.95	H
5459.560	43.99	-27.18	34.17	37.00	54.00	10.01	H

## Channel 120

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)
11200.900	50.22	-32.60	38.75	44.08	54.00	3.78	H
11196.500	49.84	-32.60	38.75	43.70	54.00	4.16	H
17930.150	39.46	-25.50	46.66	18.30	54.00	14.54	H
17921.350	39.31	-25.50	46.66	18.15	54.00	14.69	V
13331.050	36.09	-29.49	39.71	25.87	54.00	17.91	V
14499.800	36.07	-28.59	42.46	22.20	54.00	17.93	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)
11397.250	51.81	-32.42	38.79	45.44	54.00	2.19	H
11398.350	51.51	-32.42	38.79	45.14	54.00	2.49	H
17923.550	39.60	-25.50	46.66	18.44	54.00	14.40	V
17938.950	39.58	-25.50	46.66	18.42	54.00	14.42	V
13304.100	36.66	-29.49	39.71	26.44	54.00	17.34	V
13325.550	36.39	-29.49	39.71	26.17	54.00	17.61	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)
17951.050	39.69	-25.50	46.66	18.53	54.00	14.31	H
17958.750	39.59	-25.50	46.66	18.43	54.00	14.41	V
13297.500	35.97	-29.49	39.71	25.75	54.00	18.03	V
13304.100	35.90	-29.49	39.71	25.68	54.00	18.10	H
5149.940	52.19	-27.61	33.67	46.13	54.00	1.81	H
5149.460	52.09	-27.61	33.67	46.03	54.00	1.91	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)
17943.350	39.34	-25.50	46.66	18.18	54.00	14.66	H
17953.250	39.33	-25.50	46.66	18.17	54.00	14.67	V
14493.750	36.32	-28.59	42.46	22.45	54.00	17.68	V
14471.750	36.26	-28.59	42.46	22.39	54.00	17.74	V
11782.250	35.34	-31.99	38.98	28.35	54.00	18.66	V
11901.050	35.23	-31.85	39.05	28.03	54.00	18.77	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)
17925.750	39.64	-25.50	46.66	18.48	54.00	14.36	V
17985.150	39.55	-25.50	46.66	18.39	54.00	14.45	V
14485.500	36.31	-28.59	42.46	22.44	54.00	17.69	V
14491.550	36.18	-28.59	42.46	22.31	54.00	17.82	V
11803.150	35.76	-31.85	39.05	28.56	54.00	18.24	V
11802.600	35.50	-31.85	39.05	28.30	54.00	18.50	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)
17994.500	39.36	-25.50	46.66	18.20	54.00	14.64	V
17886.700	39.35	-25.50	46.66	18.19	54.00	14.65	V
10620.650	38.48	-32.76	38.38	32.86	54.00	15.52	H
10614.600	38.17	-32.76	38.38	32.55	54.00	15.83	H
5350.336	53.60	-27.43	34.01	47.02	54.00	0.40	H
5350.272	53.41	-27.43	34.01	46.83	54.00	0.59	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)
11016.650	46.73	-32.49	38.72	40.49	54.00	7.27	H
11025.450	46.68	-32.49	38.72	40.44	54.00	7.32	H
17979.650	39.38	-25.50	46.66	18.22	54.00	14.62	H
17937.850	39.30	-25.50	46.66	18.14	54.00	14.70	V
5459.020	44.61	-27.18	34.17	37.62	54.00	9.39	H
5459.230	43.69	-27.18	34.17	36.70	54.00	10.31	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)
11186.600	47.18	-32.60	38.75	41.04	54.00	6.82	H
11183.300	47.13	-32.60	38.75	40.99	54.00	6.87	H
17935.100	39.55	-25.50	46.66	18.39	54.00	14.45	V
17944.450	39.35	-25.50	46.66	18.19	54.00	14.65	V
14480.000	35.92	-28.59	42.46	22.05	54.00	18.08	V
12672.150	35.90	-30.47	39.06	27.31	54.00	18.10	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)
11340.050	49.43	-32.42	38.79	43.06	54.00	4.57	H
11344.450	49.33	-32.42	38.79	42.96	54.00	4.67	H
17945.550	39.14	-25.50	46.66	17.98	54.00	14.86	H
17951.050	39.13	-25.50	46.66	17.97	54.00	14.87	V
13330.500	36.07	-29.49	39.71	25.85	54.00	17.93	V
14493.750	35.96	-28.59	42.46	22.09	54.00	18.04	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)
17993.400	39.37	-25.50	46.66	18.21	54.00	14.63	H
17996.150	39.25	-25.50	46.66	18.09	54.00	14.75	V
13317.300	36.26	-29.49	39.71	26.04	54.00	17.74	V
14491.550	36.19	-28.59	42.46	22.32	54.00	17.81	V
5149.600	53.16	-27.61	33.67	47.10	54.00	0.84	H
5149.640	52.86	-27.61	33.67	46.80	54.00	1.14	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)
17945.550	39.48	-25.50	46.66	18.32	54.00	14.52	V
17950.500	39.39	-25.50	46.66	18.23	54.00	14.61	H
13312.350	36.15	-29.49	39.71	25.93	54.00	17.85	V
13322.800	35.99	-29.49	39.71	25.77	54.00	18.01	V
11772.350	35.60	-31.99	38.98	28.61	54.00	18.40	V
11786.650	35.24	-31.99	38.98	28.25	54.00	18.76	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)
17949.950	39.56	-25.50	46.66	18.40	54.00	14.44	V
17996.700	39.37	-25.50	46.66	18.21	54.00	14.63	V
13309.050	36.37	-29.49	39.71	26.15	54.00	17.63	V
13333.250	36.14	-29.49	39.71	25.92	54.00	17.86	V
11827.900	35.52	-31.85	39.05	28.32	54.00	18.48	V
11789.950	35.37	-31.99	38.98	28.38	54.00	18.63	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)
17933.450	39.64	-25.50	46.66	18.48	54.00	14.36	V
17938.400	39.50	-25.50	46.66	18.34	54.00	14.50	V
13328.300	36.53	-29.49	39.71	26.31	54.00	17.47	V
14493.750	36.22	-28.59	42.46	22.35	54.00	17.78	V
11246.550	35.75	-32.36	38.77	29.35	54.00	18.25	V
11796.550	35.48	-31.85	39.05	28.28	54.00	18.52	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)
17932.900	39.44	-25.50	46.66	18.28	54.00	14.56	H
17980.200	39.39	-25.50	46.66	18.23	54.00	14.61	H
13305.750	36.56	-29.49	39.71	26.34	54.00	17.44	V
13311.800	36.04	-29.49	39.71	25.82	54.00	17.96	V
11848.800	35.38	-31.85	39.05	28.18	54.00	18.62	V
11775.650	35.34	-31.99	38.98	28.35	54.00	18.66	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)
10639.900	41.10	-32.76	38.38	35.48	54.00	12.90	H
10640.450	41.05	-32.76	38.38	35.43	54.00	12.95	H
17954.900	39.67	-25.50	46.66	18.51	54.00	14.33	V
17954.350	39.58	-25.50	46.66	18.42	54.00	14.42	H
5350.528	50.86	-27.43	34.01	44.28	54.00	3.14	H
5350.496	50.79	-27.43	34.01	44.21	54.00	3.21	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)
11000.700	47.84	-32.82	38.70	41.96	54.00	6.16	H
11004.000	47.81	-32.49	38.72	41.57	54.00	6.19	H
17962.050	39.54	-25.50	46.66	18.38	54.00	14.46	V
17929.050	39.31	-25.50	46.66	18.15	54.00	14.69	H
5459.890	46.40	-27.18	34.17	39.41	54.00	7.60	H
5458.270	45.94	-27.18	34.17	38.95	54.00	8.06	H

## Channel 120

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)
11200.900	50.26	-32.60	38.75	44.12	54.00	3.74	H
11196.500	50.24	-32.60	38.75	44.10	54.00	3.76	H
17976.350	39.27	-25.50	46.66	18.11	54.00	14.73	V
17959.300	39.22	-25.50	46.66	18.06	54.00	14.78	H
14492.650	36.04	-28.59	42.46	22.17	54.00	17.96	V
14498.150	36.03	-28.59	42.46	22.16	54.00	17.97	V

**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)
11400.550	53.38	-32.42	38.79	47.01	54.00	0.62	H
11398.350	52.92	-32.42	38.79	46.55	54.00	1.08	H
17997.250	40.15	-25.50	46.66	18.99	54.00	13.85	V
17993.950	39.92	-25.50	46.66	18.76	54.00	14.08	H
13313.450	37.07	-29.49	39.71	26.85	54.00	16.93	V
14498.150	36.70	-28.59	42.46	22.83	54.00	17.30	V

**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)
17943.350	39.86	-25.50	46.66	18.70	54.00	14.14	V
17998.350	39.53	-25.50	46.66	18.37	54.00	14.47	H
14493.200	35.97	-28.59	42.46	22.10	54.00	18.03	H
14491.000	35.94	-28.59	42.46	22.07	54.00	18.06	V
5150.000	50.72	-27.61	33.67	44.66	54.00	3.28	H
5149.200	50.23	-27.61	33.67	44.17	54.00	3.77	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)
17929.600	39.44	-25.50	46.66	18.28	54.00	14.56	V
17956.550	39.32	-25.50	46.66	18.16	54.00	14.68	H
14481.100	36.23	-28.59	42.46	22.36	54.00	17.77	V
14492.100	36.15	-28.59	42.46	22.28	54.00	17.85	V
11836.150	35.67	-31.85	39.05	28.47	54.00	18.33	V
11748.700	35.52	-31.99	38.98	28.53	54.00	18.48	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)
17937.850	39.78	-25.50	46.66	18.62	54.00	14.22	V
17943.900	39.56	-25.50	46.66	18.40	54.00	14.44	V
13311.250	36.24	-29.49	39.71	26.02	54.00	17.76	V
13304.100	36.19	-29.49	39.71	25.97	54.00	17.81	V
11800.950	35.56	-31.85	39.05	28.36	54.00	18.44	V
11772.350	35.43	-31.99	38.98	28.44	54.00	18.57	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)
17927.950	39.64	-25.50	46.66	18.48	54.00	14.36	V
17928.500	39.49	-25.50	46.66	18.33	54.00	14.51	V
10615.700	38.29	-32.76	38.38	32.67	54.00	15.71	H
10612.400	38.27	-32.76	38.38	32.65	54.00	15.73	H
5351.152	53.38	-27.43	34.01	46.80	54.00	0.62	H
5350.096	53.32	-27.43	34.01	46.74	54.00	0.68	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)
11018.300	46.97	-32.49	38.72	40.73	54.00	7.03	H
11017.200	46.83	-32.49	38.72	40.59	54.00	7.17	H
17947.200	39.22	-25.50	46.66	18.06	54.00	14.78	V
17955.450	39.17	-25.50	46.66	18.01	54.00	14.83	H
5457.745	44.38	-27.18	34.17	37.39	54.00	9.62	H
5457.460	44.34	-27.18	34.17	37.35	54.00	9.66	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)
11181.100	47.71	-32.60	38.75	41.57	54.00	6.29	H
11177.250	47.70	-32.60	38.75	41.56	54.00	6.30	H
17953.250	39.38	-25.50	46.66	18.22	54.00	14.62	V
17925.750	39.37	-25.50	46.66	18.21	54.00	14.63	V
13292.550	36.30	-29.49	39.71	26.08	54.00	17.70	V
14498.150	36.04	-28.59	42.46	22.17	54.00	17.96	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)
11340.050	49.09	-32.42	38.79	42.72	54.00	4.91	H
11342.800	48.98	-32.42	38.79	42.61	54.00	5.02	H
17934.550	39.46	-25.50	46.66	18.30	54.00	14.54	V
17953.800	39.38	-25.50	46.66	18.22	54.00	14.62	V
13303.550	36.14	-29.49	39.71	25.92	54.00	17.86	V
14497.050	35.94	-28.59	42.46	22.07	54.00	18.06	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)
17994.500	39.67	-25.50	46.66	18.51	54.00	14.33	V
17929.050	39.64	-25.50	46.66	18.48	54.00	14.36	V
13299.700	36.18	-29.49	39.71	25.96	54.00	17.82	V
13311.250	36.09	-29.49	39.71	25.87	54.00	17.91	V
5147.260	53.29	-27.61	33.67	47.23	54.00	0.71	H
5149.760	52.47	-27.61	33.67	46.41	54.00	1.53	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)
17954.350	39.60	-25.50	46.66	18.44	54.00	14.40	V
17946.100	39.52	-25.50	46.66	18.36	54.00	14.48	V
13298.050	36.47	-29.49	39.71	26.25	54.00	17.53	V
13305.750	36.39	-29.49	39.71	26.17	54.00	17.61	V
5350.032	50.98	-27.43	34.01	44.40	54.00	3.02	H
5353.600	50.94	-27.43	34.01	44.36	54.00	3.06	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)
11088.700	43.74	-32.49	38.72	37.50	54.00	10.26	H
11044.700	43.48	-32.49	38.72	37.24	54.00	10.52	H
17938.400	39.46	-25.50	46.66	18.30	54.00	14.54	V
17986.800	39.22	-25.50	46.66	18.06	54.00	14.78	V
5458.570	48.08	-27.18	34.17	41.09	54.00	5.92	H
5459.065	47.79	-27.18	34.17	40.80	54.00	6.21	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)
11246.550	47.83	-32.36	38.77	41.43	54.00	6.17	H
11234.450	47.35	-32.36	38.77	40.95	54.00	6.65	H
17908.700	39.47	-25.50	46.66	18.31	54.00	14.53	V
17997.250	39.21	-25.50	46.66	18.05	54.00	14.79	V
13324.450	36.11	-29.49	39.71	25.89	54.00	17.89	H
14487.700	36.01	-28.59	42.46	22.14	54.00	17.99	V



**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)
17522.600	50.24	-26.85	45.25	31.84	68.20	17.96	V
17146.400	50.16	-26.60	43.36	33.40	68.20	18.04	H
13741.900	48.30	-29.10	40.86	36.53	68.20	19.90	V
13956.400	48.13	-29.51	41.30	36.34	68.20	20.07	H
5147.360	67.35	-27.61	33.67	61.29	74.00	6.65	H
5149.060	67.26	-27.61	33.67	61.20	74.00	6.74	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)
17144.200	50.40	-26.60	43.36	33.64	68.20	17.80	V
17355.950	49.94	-25.95	44.35	31.53	68.20	18.26	V
13575.800	48.37	-29.50	40.43	37.44	68.20	19.83	V
13736.400	48.36	-29.10	40.86	36.59	68.20	19.84	H
11754.750	47.71	-31.99	38.98	40.72	74.00	26.29	V
11375.800	46.56	-32.42	38.79	40.19	74.00	27.44	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)
17435.700	50.42	-26.85	45.25	32.02	68.20	17.78	V
16952.250	50.35	-26.32	42.36	34.30	68.20	17.85	H
13757.300	48.59	-29.10	40.86	36.82	68.20	19.61	V
13721.550	48.30	-29.10	40.86	36.53	68.20	19.90	V
10480.950	46.30	-32.99	38.27	41.01	68.20	21.90	H
10474.900	46.08	-32.99	38.27	40.79	68.20	22.12	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)
17365.850	50.97	-25.95	44.35	32.56	68.20	17.23	H
17343.300	50.39	-25.95	44.35	31.98	68.20	17.81	H
14089.500	48.83	-29.44	41.66	36.61	68.20	19.37	V
13647.300	48.74	-29.50	40.43	37.81	68.20	19.46	V
10521.100	46.70	-32.99	38.27	41.41	68.20	21.50	H
10516.700	46.45	-32.99	38.27	41.16	68.20	21.75	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)
17591.900	50.51	-25.74	45.95	30.30	68.20	17.69	H
17187.650	50.46	-26.60	43.36	33.70	68.20	17.74	H
10561.250	49.33	-32.99	38.27	44.04	68.20	18.87	H
10561.800	49.25	-32.99	38.27	43.96	68.20	18.95	H
14093.350	48.98	-29.44	41.66	36.76	68.20	19.22	V
13747.400	48.54	-29.10	40.86	36.77	68.20	19.66	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)
10640.450	51.97	-32.76	38.38	46.35	74.00	22.03	H
10645.400	51.94	-32.76	38.38	46.32	74.00	22.06	H
17537.450	50.36	-26.85	45.25	31.96	68.20	17.84	V
17358.700	50.03	-25.95	44.35	31.62	68.20	18.17	H
5350.304	70.19	-27.43	34.01	63.61	74.00	3.81	H
5350.000	69.02	-27.43	34.01	62.44	74.00	4.98	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)
10999.050	57.77	-32.82	38.70	51.89	74.00	16.23	H
11001.800	57.72	-32.49	38.72	51.48	74.00	16.28	H
17986.800	50.05	-25.50	46.66	28.89	74.00	23.95	V
17041.350	49.96	-26.32	42.36	33.91	68.20	18.24	H
5459.275	60.06	-27.18	34.17	53.07	74.00	13.94	H
5469.355	66.18	-27.18	34.17	59.19	68.20	2.02	H

## Channel 120

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)
11200.900	62.37	-32.60	38.75	56.23	74.00	11.63	H
11198.150	60.18	-32.60	38.75	54.04	74.00	13.82	H
16797.700	50.46	-26.62	41.49	35.59	68.20	17.74	V
17922.450	50.44	-25.50	46.66	29.28	74.00	23.56	V
13629.150	48.59	-29.50	40.43	37.66	68.20	19.61	V
14087.850	48.19	-29.44	41.66	35.97	68.20	20.01	V

## 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)
11401.100	61.84	-32.42	38.79	55.47	74.00	12.16	H
11404.400	61.18	-32.42	38.79	54.81	74.00	12.82	H
17255.850	50.69	-25.95	44.35	32.28	68.20	17.51	H
17269.050	50.66	-25.95	44.35	32.25	68.20	17.54	H
5725.337	67.09	-27.07	34.31	59.85	68.20	1.11	V
5726.160	66.92	-27.07	34.31	59.68	68.20	1.28	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)
17947.200	49.81	-25.50	46.66	28.65	74.00	24.19	V
17946.650	49.79	-25.50	46.66	28.63	74.00	24.21	V
13750.150	48.46	-29.10	40.86	36.69	68.20	19.74	V
13547.200	48.10	-29.56	39.99	37.67	68.20	20.10	V
5148.760	70.40	-27.61	33.67	64.34	74.00	3.60	H
5149.640	69.86	-27.61	33.67	63.80	74.00	4.14	V

## 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)
17376.850	50.16	-25.95	44.35	31.75	68.20	18.04	V
17515.450	50.12	-26.85	45.25	31.72	68.20	18.08	V
13613.200	48.66	-29.50	40.43	37.73	68.20	19.54	V
14076.300	48.64	-29.44	41.66	36.42	68.20	19.56	V
11778.950	46.07	-31.99	38.98	39.08	74.00	27.93	V
11428.050	45.71	-32.42	38.79	39.34	74.00	28.29	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)
17942.800	50.17	-25.50	46.66	29.01	74.00	23.83	V
16835.100	50.13	-26.62	41.49	35.26	68.20	18.07	V
13754.000	48.21	-29.10	40.86	36.44	68.20	19.99	H
14208.850	48.14	-28.99	42.00	35.12	68.20	20.06	H
10480.400	46.71	-32.99	38.27	41.42	68.20	21.49	H
11768.500	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)
17155.750	50.78	-26.60	43.36	34.02	68.20	17.42	H
17975.800	50.36	-25.50	46.66	29.20	74.00	23.64	V
13746.300	48.92	-29.10	40.86	37.15	68.20	19.28	V
14079.050	48.41	-29.44	41.66	36.19	68.20	19.79	V
10523.850	47.15	-32.99	38.27	41.86	68.20	21.05	H
10832.950	46.42	-32.33	38.59	40.16	74.00	27.58	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)
16482.000	49.89	-26.96	39.82	37.03	68.20	18.31	V
17478.050	49.81	-26.85	45.25	31.41	68.20	18.39	V
14104.350	48.82	-29.44	41.66	36.60	68.20	19.38	V
10559.600	48.43	-32.99	38.27	43.14	68.20	19.77	H
14099.950	48.32	-29.44	41.66	36.10	68.20	19.88	V
10560.700	48.11	-32.99	38.27	42.82	68.20	20.09	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)
10641.550	50.70	-32.76	38.38	45.08	74.00	23.30	H
10635.500	50.69	-32.76	38.38	45.07	74.00	23.31	H
17451.650	50.29	-26.85	45.25	31.89	68.20	17.91	V
17562.200	50.26	-25.74	45.95	30.05	68.20	17.94	H
14102.700	49.09	-29.44	41.66	36.87	68.20	19.11	H
13752.900	48.39	-29.10	40.86	36.62	68.20	19.81	V

## 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)
11006.200	57.36	-32.49	38.72	51.12	74.00	16.64	H
11003.450	57.10	-32.49	38.72	50.86	74.00	16.90	H
17435.700	50.61	-26.85	45.25	32.21	68.20	17.59	V
17446.150	50.56	-26.85	45.25	32.16	68.20	17.64	V
5459.740	63.51	-27.18	34.17	56.52	74.00	10.49	V
5469.820	67.51	-27.18	34.17	60.52	68.20	0.69	V

## Channel 120

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)
11197.050	59.33	-32.60	38.75	53.19	74.00	14.67	H
11198.700	59.06	-32.60	38.75	52.92	74.00	14.94	H
17981.850	50.35	-25.50	46.66	29.19	74.00	23.65	H
17930.150	50.23	-25.50	46.66	29.07	74.00	23.77	V
13766.100	48.40	-29.10	40.86	36.63	68.20	19.80	V
13716.600	48.28	-29.10	40.86	36.51	68.20	19.92	V

## 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)
11400.000	60.76	-32.42	38.79	54.39	74.00	13.24	H
11396.150	60.45	-32.42	38.79	54.08	74.00	13.55	H
17443.950	50.60	-26.85	45.25	32.20	68.20	17.60	H
17369.700	50.50	-25.95	44.35	32.09	68.20	17.70	V
5726.685	67.97	-27.07	34.31	60.73	68.20	0.23	H
5725.057	67.93	-27.07	34.31	60.69	68.20	0.27	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)
17369.700	50.24	-25.95	44.35	31.83	68.20	17.96	V
17891.650	50.08	-25.50	46.66	28.92	74.00	23.92	V
14089.500	48.62	-29.44	41.66	36.40	68.20	19.58	V
13748.500	48.33	-29.10	40.86	36.56	68.20	19.87	V
5149.340	69.98	-27.61	33.67	63.92	74.00	4.02	H
5149.940	69.50	-27.61	33.67	63.44	74.00	4.50	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)
17928.500	50.87	-25.50	46.66	29.71	74.00	23.13	H
17991.200	50.11	-25.50	46.66	28.95	74.00	23.89	V
13729.800	49.16	-29.10	40.86	37.39	68.20	19.04	V
14101.050	48.11	-29.44	41.66	35.89	68.20	20.09	H
11364.800	46.01	-32.42	38.79	39.64	74.00	27.99	V
11902.700	45.92	-31.85	39.05	38.72	74.00	28.08	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)
17865.250	50.46	-25.50	46.66	29.30	74.00	23.54	V
17992.850	50.20	-25.50	46.66	29.04	74.00	23.80	V
14192.350	48.35	-28.99	42.00	35.33	68.20	19.85	V
13795.800	48.34	-29.10	40.86	36.57	68.20	19.86	H
10537.600	46.56	-32.99	38.27	41.27	68.20	21.64	H
11796.550	46.49	-31.85	39.05	39.29	74.00	27.51	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)
17430.200	52.31	-26.85	45.25	33.91	68.20	15.89	H
17349.900	51.19	-25.95	44.35	32.78	68.20	17.01	H
10627.800	48.70	-32.76	38.38	43.08	74.00	25.30	H
13699.550	48.47	-29.10	40.86	36.70	68.20	19.73	V
5351.104	73.86	-27.43	34.01	67.28	74.00	0.14	H
5350.032	71.96	-27.43	34.01	65.38	74.00	2.04	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)
11013.900	56.89	-32.49	38.72	50.65	74.00	17.11	H
11027.100	55.85	-32.49	38.72	49.61	74.00	18.15	H
17227.800	50.73	-25.95	44.35	32.32	68.20	17.47	H
17137.600	50.11	-26.60	43.36	33.35	68.20	18.09	H
5458.510	56.83	-27.18	34.17	49.84	74.00	17.17	H
5469.820	66.79	-27.18	34.17	59.80	68.20	1.41	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)
11182.750	56.74	-32.60	38.75	50.60	74.00	17.26	H
11182.200	56.59	-32.60	38.75	50.45	74.00	17.41	H
17378.500	50.27	-25.95	44.35	31.86	68.20	17.93	V
17924.650	50.18	-25.50	46.66	29.02	74.00	23.82	H
14195.100	48.75	-28.99	42.00	35.73	68.20	19.45	V
13747.950	48.55	-29.10	40.86	36.78	68.20	19.65	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)
11342.250	59.12	-32.42	38.79	52.75	74.00	14.88	H
11333.450	58.89	-32.36	38.77	52.49	74.00	15.11	H
17455.500	50.09	-26.85	45.25	31.69	68.20	18.11	H
17235.500	50.08	-25.95	44.35	31.67	68.20	18.12	V
5727.123	66.89	-27.07	34.31	59.65	68.20	1.31	H
5731.568	66.84	-27.07	34.31	59.60	68.20	1.36	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)
17846.550	49.87	-25.50	46.66	28.71	74.00	24.13	H
17457.700	49.86	-26.85	45.25	31.46	68.20	18.34	V
13707.800	48.08	-29.10	40.86	36.31	68.20	20.12	V
14109.300	48.00	-28.99	42.00	34.98	68.20	20.20	H
5148.560	70.10	-27.61	33.67	64.04	74.00	3.90	H
5148.640	69.88	-27.61	33.67	63.82	74.00	4.12	V

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)
17931.250	50.52	-25.50	46.66	29.36	74.00	23.48	V
17212.400	50.21	-26.60	43.36	33.45	68.20	17.99	H
13720.450	48.14	-29.10	40.86	36.37	68.20	20.06	V
13723.750	48.11	-29.10	40.86	36.34	68.20	20.09	H
11783.900	46.73	-31.99	38.98	39.74	74.00	27.27	V
11714.050	46.53	-31.99	38.98	39.54	74.00	27.47	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)
17384.550	50.11	-25.95	44.35	31.70	68.20	18.09	V
17387.850	50.07	-26.85	45.25	31.67	68.20	18.13	V
13732.550	48.14	-29.10	40.86	36.37	68.20	20.06	V
13719.900	48.04	-29.10	40.86	36.27	68.20	20.16	V
10487.550	46.64	-32.99	38.27	41.35	68.20	21.56	H
11793.800	46.59	-31.99	38.98	39.60	74.00	27.41	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)
17360.350	50.48	-25.95	44.35	32.07	68.20	17.72	V
17366.400	50.35	-25.95	44.35	31.94	68.20	17.85	H
13736.950	48.36	-29.10	40.86	36.59	68.20	19.84	V
14164.850	48.06	-28.99	42.00	35.04	68.20	20.14	V
10521.100	46.53	-32.99	38.27	41.24	68.20	21.67	H
10522.200	46.43	-32.99	38.27	41.14	68.20	21.77	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)
17974.150	50.34	-25.50	46.66	29.18	74.00	23.66	V
17557.800	50.16	-26.85	45.25	31.76	68.20	18.04	H
10558.500	49.44	-32.99	38.27	44.15	68.20	18.76	H
10559.600	48.29	-32.99	38.27	43.00	68.20	19.91	H
13691.850	48.25	-29.50	40.43	37.32	68.20	19.95	V
13651.150	48.00	-29.50	40.43	37.07	68.20	20.20	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)
10639.350	50.43	-32.76	38.38	44.81	74.00	23.57	H
17443.950	50.38	-26.85	45.25	31.98	68.20	17.82	V
17970.300	50.33	-25.50	46.66	29.17	74.00	23.67	V
10635.500	50.27	-32.76	38.38	44.65	74.00	23.73	H
5352.112	67.99	-27.43	34.01	61.41	74.00	6.01	H
5350.000	67.90	-27.43	34.01	61.32	74.00	6.10	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)
11004.550	58.28	-32.49	38.72	52.04	74.00	15.72	H
11003.450	57.78	-32.49	38.72	51.54	74.00	16.22	H
17947.750	50.87	-25.50	46.66	29.71	74.00	23.13	V
17227.800	50.26	-25.95	44.35	31.85	68.20	17.94	V
5459.425	62.25	-27.18	34.17	55.26	74.00	11.75	H
5466.160	66.86	-27.18	34.17	59.87	68.20	1.34	H

## Channel 120

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)
11194.850	60.71	-32.60	38.75	54.57	74.00	13.29	H
11203.650	60.63	-32.60	38.75	54.49	74.00	13.37	H
17448.350	50.55	-26.85	45.25	32.15	68.20	17.65	H
17434.050	49.88	-26.85	45.25	31.48	68.20	18.32	V
14559.750	48.28	-27.29	41.90	33.67	68.20	19.92	H
13645.100	48.22	-29.50	40.43	37.29	68.20	19.98	V

## 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)
11398.900	63.25	-32.42	38.79	56.88	74.00	10.75	H
11394.500	62.97	-32.42	38.79	56.60	74.00	11.03	H
17318.550	51.21	-25.95	44.35	32.80	68.20	16.99	V
17567.700	50.69	-25.74	45.95	30.48	68.20	17.51	H
5726.090	66.20	-27.07	34.31	58.96	68.20	2.00	H
5725.530	65.27	-27.07	34.31	58.03	68.20	2.93	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)
17931.250	50.16	-25.50	46.66	29.00	74.00	23.84	V
17992.300	50.03	-25.50	46.66	28.87	74.00	23.97	V
13725.950	48.22	-29.10	40.86	36.45	68.20	19.98	V
13700.650	48.20	-29.10	40.86	36.43	68.20	20.00	V
5148.560	68.57	-27.61	33.67	62.51	74.00	5.43	H
5148.840	67.20	-27.61	33.67	61.14	74.00	6.80	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)
17942.250	50.39	-25.50	46.66	29.23	74.00	23.61	V
17237.150	50.09	-25.95	44.35	31.68	68.20	18.11	V
13707.800	48.90	-29.10	40.86	37.13	68.20	19.30	V
14201.150	48.50	-28.99	42.00	35.48	68.20	19.70	V
11693.150	45.87	-31.99	38.98	38.88	74.00	28.13	H
11718.450	45.84	-31.99	38.98	38.85	74.00	28.16	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)
17443.950	50.54	-26.85	45.25	32.14	68.20	17.66	H
17962.600	50.30	-25.50	46.66	29.14	74.00	23.70	H
14586.700	47.97	-27.29	41.90	33.36	68.20	20.23	V
13614.300	47.95	-29.50	40.43	37.02	68.20	20.25	V
11692.600	46.27	-31.99	38.98	39.28	74.00	27.73	H
11797.100	45.99	-31.85	39.05	38.79	74.00	28.01	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)
17534.150	50.46	-26.85	45.25	32.06	68.20	17.74	V
17336.700	50.43	-25.95	44.35	32.02	68.20	17.77	V
14180.250	48.48	-28.99	42.00	35.46	68.20	19.72	V
13673.700	48.47	-29.50	40.43	37.54	68.20	19.73	V
5352.240	73.86	-27.43	34.01	67.28	74.00	0.14	H
5350.384	69.83	-27.43	34.01	63.25	74.00	4.17	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)
11018.300	56.37	-32.49	38.72	50.13	74.00	17.63	H
11018.850	56.09	-32.49	38.72	49.85	74.00	17.91	H
17989.000	50.21	-25.50	46.66	29.05	74.00	23.79	V
17593.550	50.17	-25.74	45.95	29.96	68.20	18.03	V
5458.480	59.15	-27.18	34.17	52.16	74.00	14.85	H
5469.535	66.14	-27.18	34.17	59.15	68.20	2.06	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)
11177.800	57.23	-32.60	38.75	51.09	74.00	16.77	H
11180.000	56.81	-32.60	38.75	50.67	74.00	17.19	H
17235.500	50.00	-25.95	44.35	31.59	68.20	18.20	H
17433.500	49.87	-26.85	45.25	31.47	68.20	18.33	V
14113.150	48.04	-28.99	42.00	35.02	68.20	20.16	H
13660.500	47.96	-29.50	40.43	37.03	68.20	20.24	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)
11339.500	59.93	-32.42	38.79	53.56	74.00	14.07	H
11342.800	59.42	-32.42	38.79	53.05	74.00	14.58	H
17942.800	50.70	-25.50	46.66	29.54	74.00	23.30	V
17439.000	50.34	-26.85	45.25	31.94	68.20	17.86	V
5725.110	67.76	-27.07	34.31	60.52	68.20	0.44	H
5729.993	66.89	-27.07	34.31	59.65	68.20	1.31	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)
17962.600	50.70	-25.50	46.66	29.54	74.00	23.30	H
17369.700	50.56	-25.95	44.35	32.15	68.20	17.64	H
14137.350	49.30	-28.99	42.00	36.28	68.20	18.90	V
13653.350	48.48	-29.50	40.43	37.55	68.20	19.72	V
5149.220	69.21	-27.61	33.67	63.15	74.00	4.79	H
5144.340	68.25	-27.61	33.67	62.19	74.00	5.75	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)
17261.350	50.25	-25.95	44.35	31.84	68.20	17.95	V
17918.050	50.11	-25.50	46.66	28.95	74.00	23.89	V
14595.500	49.14	-27.29	41.90	34.53	68.20	19.06	H
13707.800	48.65	-29.10	40.86	36.88	68.20	19.55	H
5354.976	68.52	-27.43	34.01	61.94	74.00	5.48	H
5351.968	67.05	-27.43	34.01	60.47	74.00	6.95	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)
11058.450	54.00	-32.49	38.72	47.76	74.00	20.00	H
11076.600	53.51	-32.49	38.72	47.27	74.00	20.49	H
17559.450	50.26	-26.85	45.25	31.86	68.20	17.94	H
17464.300	50.15	-26.85	45.25	31.75	68.20	18.05	V
5447.260	66.22	-27.18	34.17	59.23	74.00	7.78	H
5460.685	67.49	-27.18	34.17	60.50	68.20	0.71	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)
11246.550	57.72	-32.36	38.77	51.32	74.00	16.28	H
11238.850	57.44	-32.36	38.77	51.04	74.00	16.56	H
17932.350	50.59	-25.50	46.66	29.43	74.00	23.41	V
17484.650	50.40	-26.85	45.25	32.00	68.20	17.80	H
5728.698	66.20	-27.07	34.31	58.96	68.20	2.00	H
5735.575	65.65	-27.07	34.31	58.41	68.20	2.55	H

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

**Test Condition:**

Voltage (V)	Frequency (Hz)
120	60

**Measurement uncertainty:**

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

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.58	Fig.59	<b>P</b>
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 AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.58	Fig.59	<b>P</b>
0.5 to 5	46			
5 to 30	50			

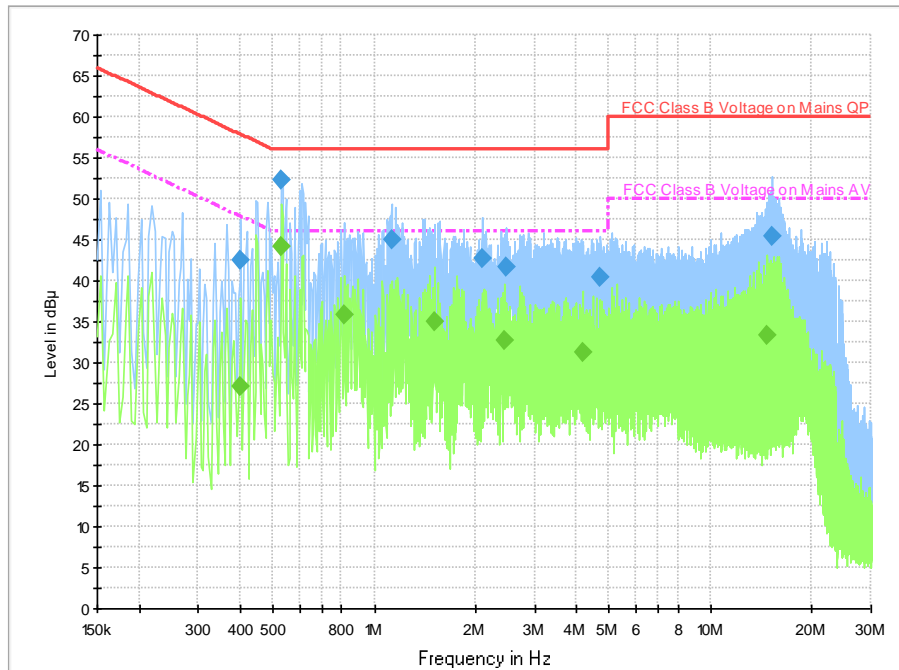
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Conclusion: PASS**

Test graphs as below:



**Traffic:**



**Fig.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**

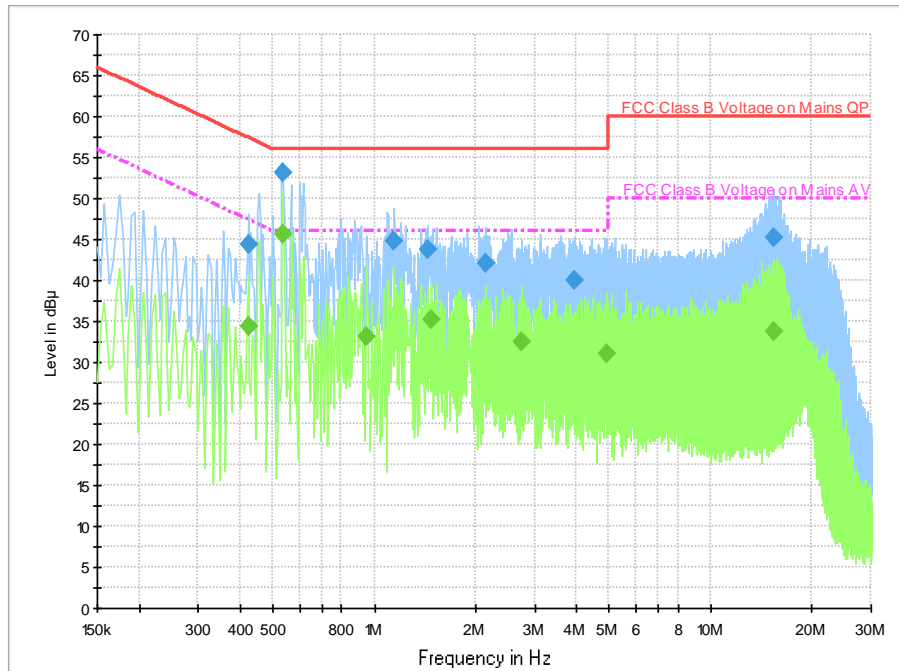
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.402000	42.5	2000.0	9.000	On	L1	19.7	15.3	57.8
0.530000	52.3	2000.0	9.000	On	L1	19.7	3.7	56.0
1.126000	45.0	2000.0	9.000	On	L1	19.6	11.0	56.0
2.098000	42.6	2000.0	9.000	On	L1	19.6	13.4	56.0
2.478000	41.7	2000.0	9.000	On	L1	19.6	14.3	56.0
4.718000	40.4	2000.0	9.000	On	L1	19.6	15.6	56.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.402000	27.0	2000.0	9.000	On	L1	19.7	20.8	47.8
0.530000	44.2	2000.0	9.000	On	L1	19.7	1.8	46.0
0.814000	35.8	2000.0	9.000	On	L1	19.7	10.2	46.0
1.510000	35.1	2000.0	9.000	On	L1	19.6	10.9	46.0
2.450000	32.7	2000.0	9.000	On	L1	19.6	13.3	46.0
4.150000	31.2	2000.0	9.000	On	L1	19.6	14.8	46.0

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)
0.422000	44.3	2000.0	9.000	On	L1	19.7	13.1	57.4
0.534000	53.1	2000.0	9.000	On	L1	19.7	2.9	56.0
1.142000	44.8	2000.0	9.000	On	L1	19.7	11.2	56.0
1.446000	43.8	2000.0	9.000	On	L1	19.7	12.2	56.0
2.142000	42.2	2000.0	9.000	On	L1	19.6	13.8	56.0
3.942000	40.0	2000.0	9.000	On	L1	19.6	16.0	56.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.422000	34.4	2000.0	9.000	On	L1	19.7	13.0	47.4
0.534000	45.6	2000.0	9.000	On	L1	19.7	0.4	46.0
0.946000	33.2	2000.0	9.000	On	L1	19.7	12.8	46.0
1.478000	35.2	2000.0	9.000	On	L1	19.7	10.8	46.0
2.754000	32.5	2000.0	9.000	On	L1	19.6	13.5	46.0
4.890000	31.1	2000.0	9.000	On	L1	19.6	14.9	46.0

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).

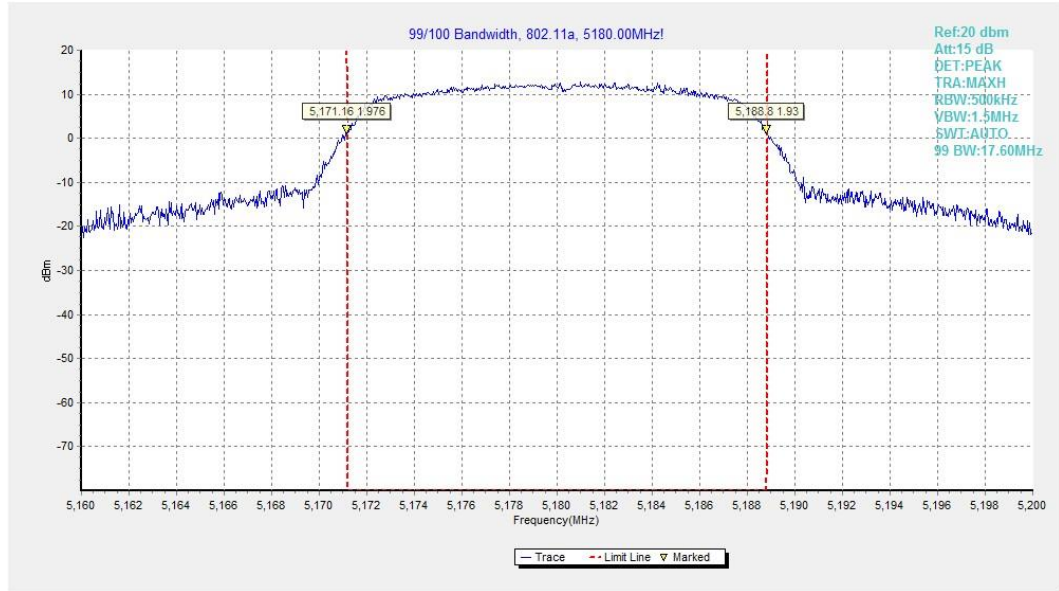
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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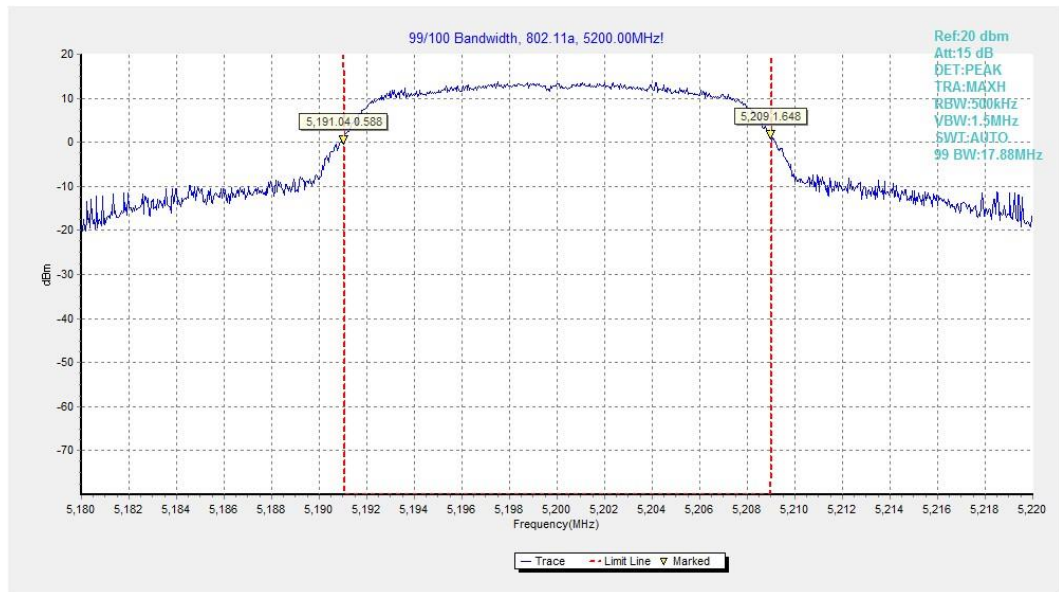
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.60	17.60	P
	5200 MHz	Fig.61	17.88	P
	5240 MHz	Fig.62	17.88	P
802.11ac HT20	5180 MHz	Fig.63	18.56	P
	5200 MHz	Fig.64	18.52	P
	5240 MHz	Fig.65	18.48	P
802.11ac HT40	5190 MHz	Fig.66	36.32	P
	5230 MHz	Fig.67	36.56	P
802.11ac HT80	5210 MHz	Fig.68	75.36	P

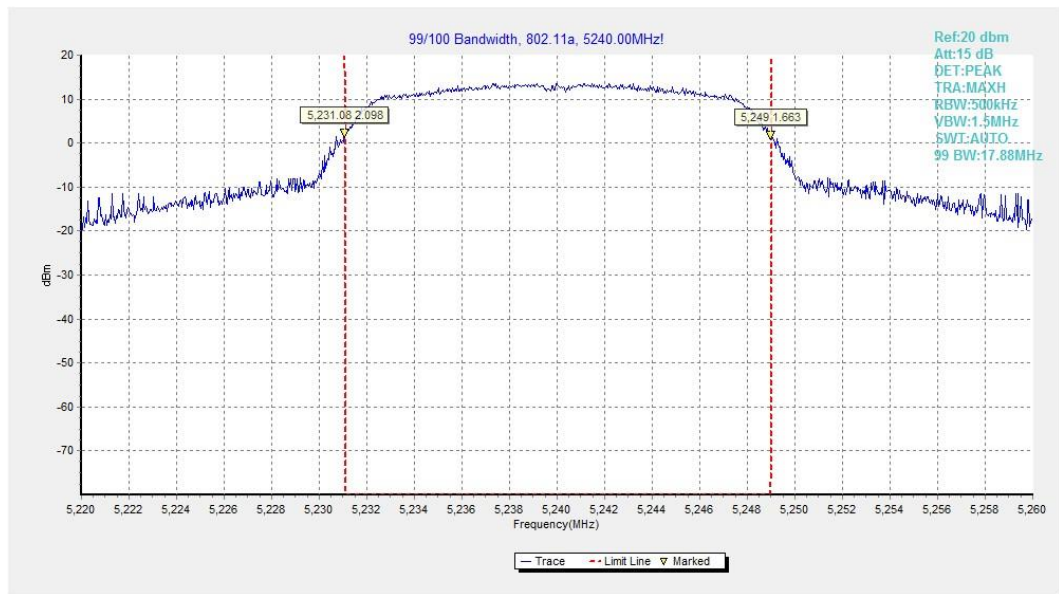
**Conclusion: PASS**  
**Test graphs as below:**



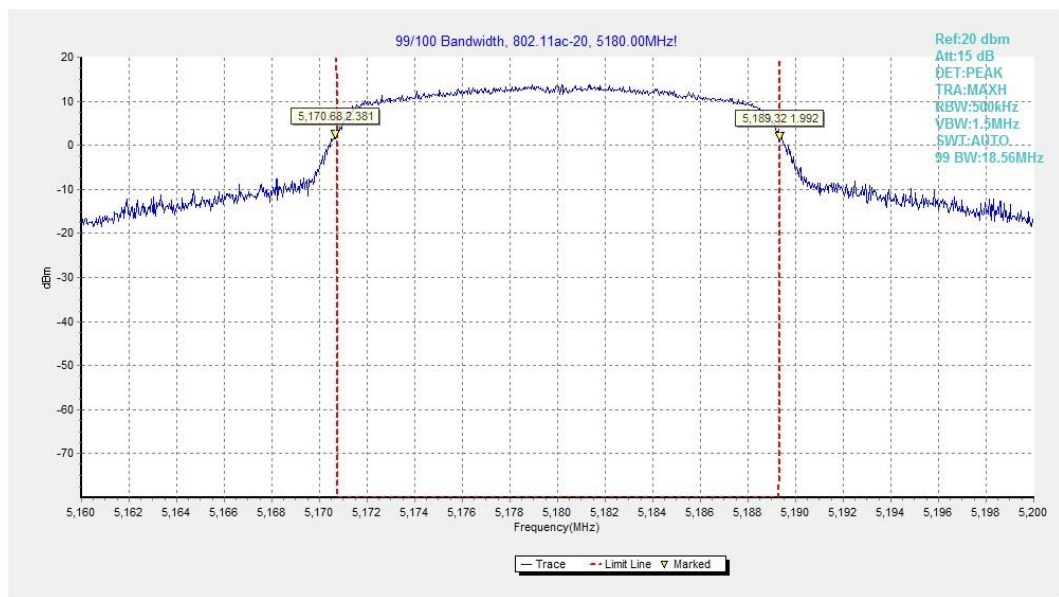
**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**



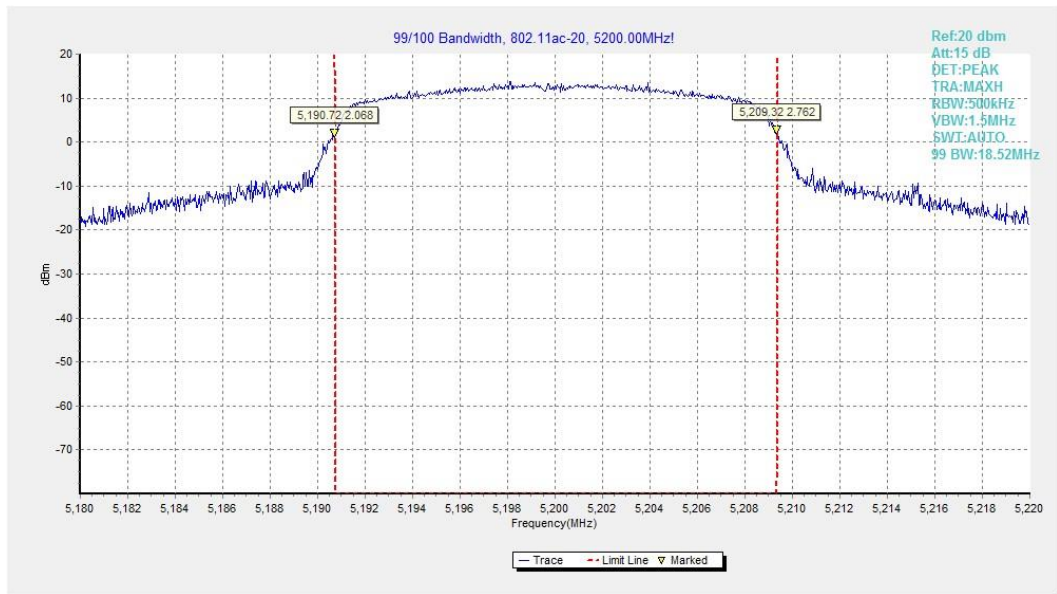
**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**



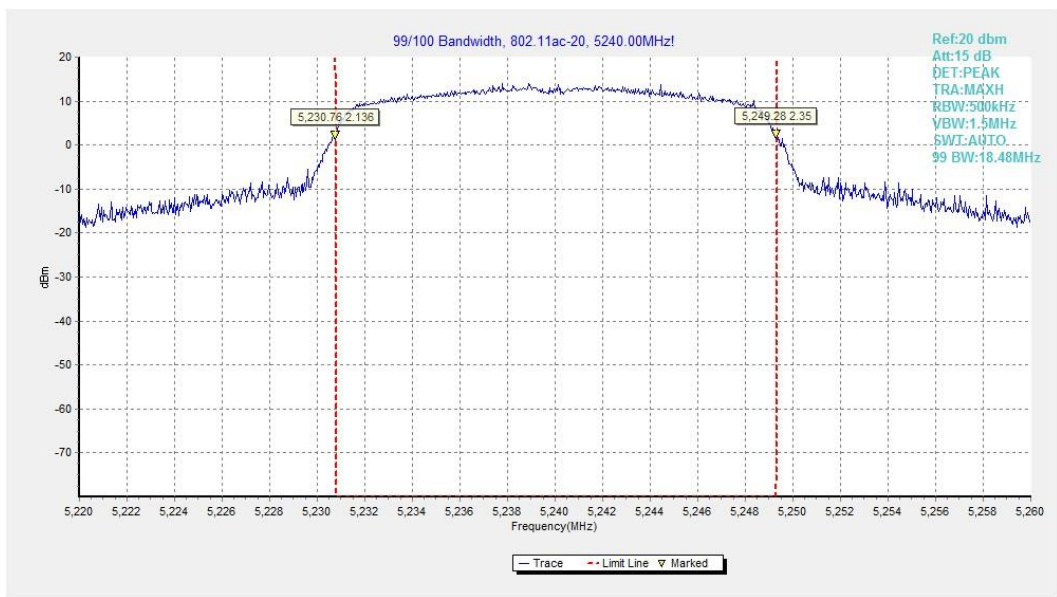
**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**



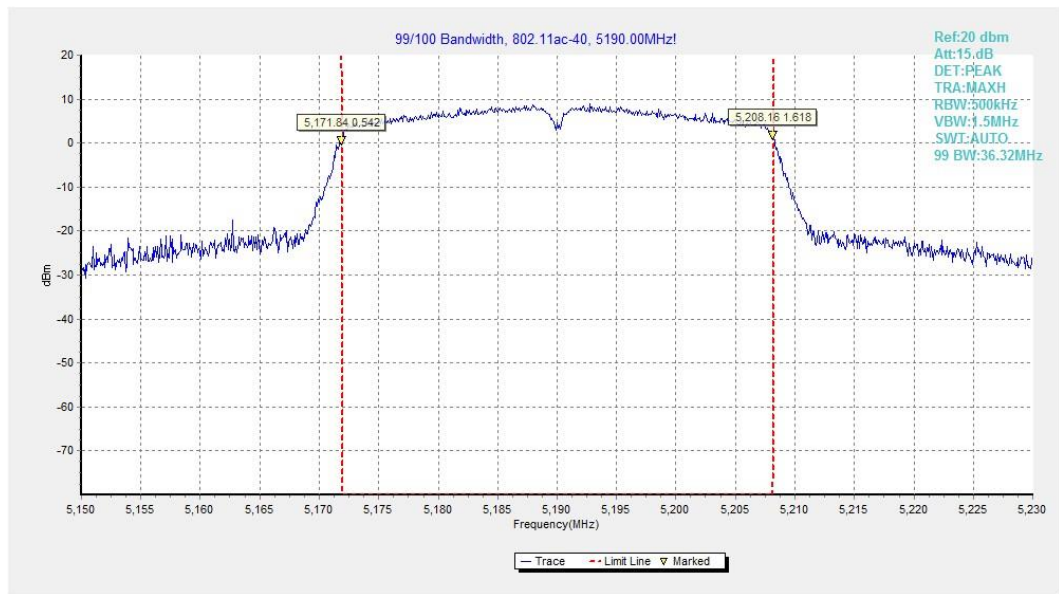
**Fig.63 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



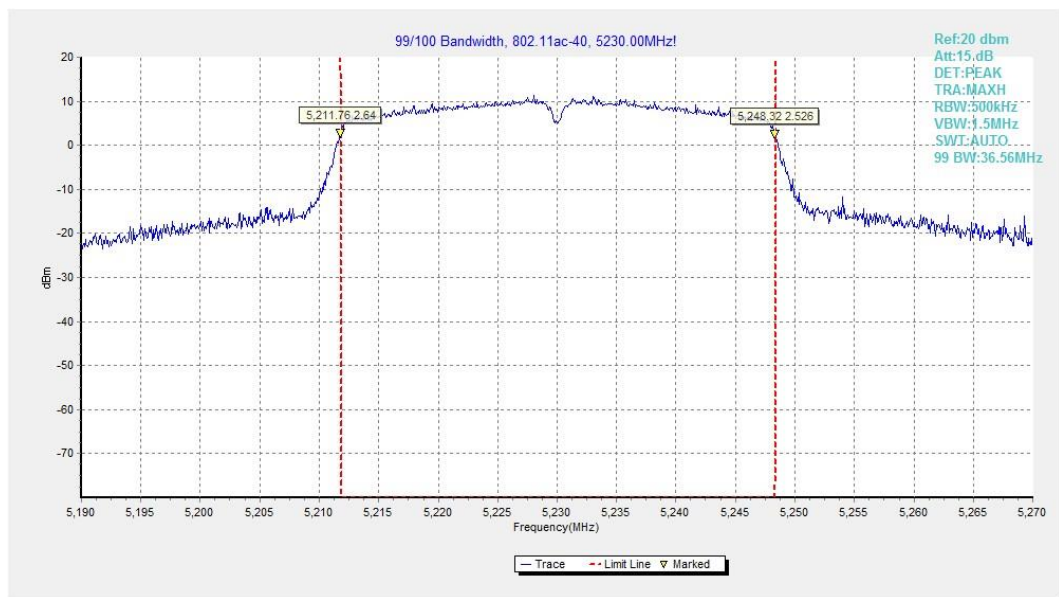
**Fig.64 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**



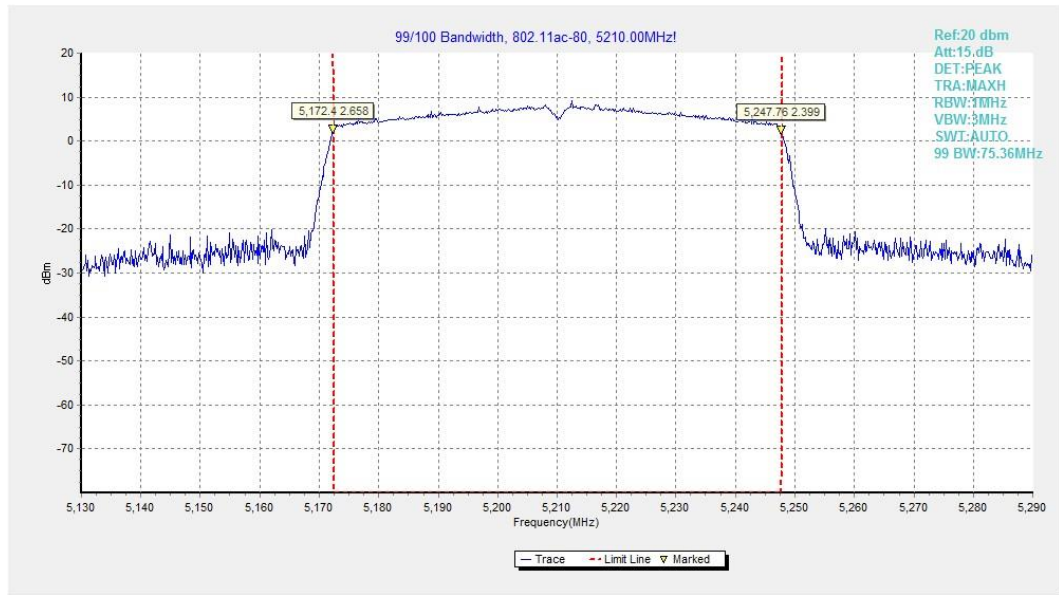
**Fig.65 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**



**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 \*\*\*