

**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	---
	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:

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

Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20 \log(D) + 104.77$$

Where:

E is the field strength in dB $\mu$ V/m

D is the measurement distance in meters

EIRP is the equivalent isotropically radiated power in dbm

or

$$E = \text{EIRP} + 95.2, \text{ for } D = 3 \text{ m.}$$

**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)
17992.300	45.37	-25.50	46.66	24.21	54.00	8.63	V
17985.200	45.10	-25.50	46.66	23.94	54.00	8.90	V
14481.600	38.40	-28.59	42.46	24.53	54.00	15.60	V
14488.800	38.16	-28.59	42.46	24.29	54.00	15.84	V
5150.000	45.07	-27.61	33.67	39.01	54.00	8.93	H
5149.400	45.06	-27.61	33.67	39.00	54.00	8.94	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)
17984.000	45.01	-25.50	46.66	23.85	54.00	8.99	V
17995.600	45.00	-25.50	46.66	23.84	54.00	9.00	V
14499.200	38.09	-28.59	42.46	24.22	54.00	15.91	V
14489.900	37.97	-28.59	42.46	24.10	54.00	16.03	V
11822.400	33.36	-31.85	39.05	26.16	54.00	20.64	V
11999.500	33.26	-31.48	39.09	25.65	54.00	20.74	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)
17998.300	45.23	-25.50	46.66	24.07	54.00	8.77	V
17989.000	45.14	-25.50	46.66	23.98	54.00	8.86	V
14486.600	37.97	-28.59	42.46	24.10	54.00	16.03	V
14494.300	37.88	-28.59	42.46	24.01	54.00	16.12	V
11939.600	33.36	-31.48	39.09	25.75	54.00	20.64	V
11815.800	33.23	-31.85	39.05	26.03	54.00	20.77	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)
17984.000	45.32	-25.50	46.66	24.16	54.00	8.68	V
17994.000	45.20	-25.50	46.66	24.04	54.00	8.80	V
14490.500	38.34	-28.59	42.46	24.47	54.00	15.66	V
14478.400	38.29	-28.59	42.46	24.42	54.00	15.71	V
11821.300	33.94	-31.85	39.05	26.74	54.00	20.06	V
11817.500	33.88	-31.85	39.05	26.68	54.00	20.12	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)
17990.100	45.11	-25.50	46.66	23.95	54.00	8.89	V
17993.400	45.06	-25.50	46.66	23.90	54.00	8.94	V
14499.800	38.26	-28.59	42.46	24.39	54.00	15.74	V
14498.700	38.21	-28.59	42.46	24.34	54.00	15.79	V
11937.900	33.82	-31.48	39.09	26.21	54.00	20.18	V
11835.100	33.75	-31.85	39.05	26.55	54.00	20.25	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)
17996.200	45.24	-25.50	46.66	24.08	54.00	8.76	V
17970.300	45.21	-25.50	46.66	24.05	54.00	8.79	V
14491.500	38.28	-28.59	42.46	24.41	54.00	15.72	V
14494.300	38.26	-28.59	42.46	24.39	54.00	15.74	V
5350.400	39.99	-27.43	34.01	33.41	54.00	14.01	H
5350.100	39.90	-27.43	34.01	33.32	54.00	14.10	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)
17991.800	45.54	-25.50	46.66	24.38	54.00	8.46	V
17975.800	45.43	-25.50	46.66	24.27	54.00	8.57	H
14499.200	36.73	-28.59	42.46	22.86	54.00	17.27	V
14488.200	36.67	-28.59	42.46	22.80	54.00	17.33	V
5455.400	39.10	-27.18	34.17	32.11	54.00	14.90	H
5455.500	38.96	-27.18	34.17	31.97	54.00	15.04	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)
17986.200	45.68	-25.50	46.66	24.52	54.00	8.32	H
17985.200	45.66	-25.50	46.66	24.50	54.00	8.34	V
14499.800	36.76	-28.59	42.46	22.89	54.00	17.24	V
14495.400	36.71	-28.59	42.46	22.84	54.00	17.29	H
11812.000	34.18	-31.85	39.05	26.98	54.00	19.82	V
11814.700	34.16	-31.85	39.05	26.96	54.00	19.84	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)
17992.300	45.80	-25.50	46.66	24.64	54.00	8.20	V
17997.200	45.65	-25.50	46.66	24.49	54.00	8.35	H
14498.700	36.77	-28.59	42.46	22.90	54.00	17.23	H
14481.600	36.76	-28.59	42.46	22.89	54.00	17.24	V
11836.200	34.17	-31.85	39.05	26.97	54.00	19.83	H
11814.700	34.15	-31.85	39.05	26.95	54.00	19.85	V

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## 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)
17996.700	45.42	-25.50	46.66	24.26	54.00	8.58	V
17991.200	45.38	-25.50	46.66	24.22	54.00	8.62	V
14493.200	38.36	-28.59	42.46	24.49	54.00	15.64	V
14494.300	38.32	-28.59	42.46	24.45	54.00	15.68	V
5149.800	44.53	-27.61	33.67	38.47	54.00	9.47	H
5149.700	44.46	-27.61	33.67	38.40	54.00	9.54	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)
17996.700	45.34	-25.50	46.66	24.18	54.00	8.66	V
17974.200	45.10	-25.50	46.66	23.94	54.00	8.90	V
14489.900	38.43	-28.59	42.46	24.56	54.00	15.57	V
14482.200	38.32	-28.59	42.46	24.45	54.00	15.68	V
11913.700	33.80	-31.48	39.09	26.19	54.00	20.20	V
11815.300	33.77	-31.85	39.05	26.57	54.00	20.23	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)
17996.700	45.49	-25.50	46.66	24.33	54.00	8.51	V
17998.300	45.37	-25.50	46.66	24.21	54.00	8.63	V
14472.300	38.15	-28.59	42.46	24.28	54.00	15.85	V
14478.400	38.15	-28.59	42.46	24.28	54.00	15.85	V
11834.500	33.85	-31.85	39.05	26.65	54.00	20.15	V
11934.600	33.79	-31.48	39.09	26.18	54.00	20.21	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)
17994.000	45.51	-25.50	46.66	24.35	54.00	8.49	V
17997.800	45.44	-25.50	46.66	24.28	54.00	8.56	V
14476.100	38.47	-28.59	42.46	24.60	54.00	15.53	V
14496.500	38.45	-28.59	42.46	24.58	54.00	15.55	V
11813.100	34.15	-31.85	39.05	26.95	54.00	19.85	V
11836.700	34.14	-31.85	39.05	26.94	54.00	19.86	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)
17981.800	45.76	-25.50	46.66	24.60	54.00	8.24	V
17997.200	45.54	-25.50	46.66	24.38	54.00	8.46	V
14488.800	38.48	-28.59	42.46	24.61	54.00	15.52	V
14493.800	38.42	-28.59	42.46	24.55	54.00	15.58	V
11827.400	34.35	-31.85	39.05	27.15	54.00	19.65	V
11821.300	34.16	-31.85	39.05	26.96	54.00	19.84	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)
17990.700	45.04	-25.50	46.66	23.88	54.00	8.96	V
17998.900	45.02	-25.50	46.66	23.86	54.00	8.98	V
14497.600	38.00	-28.59	42.46	24.13	54.00	16.00	V
14497.000	37.96	-28.59	42.46	24.09	54.00	16.04	V
5350.400	41.77	-27.43	34.01	35.19	54.00	12.23	H
5350.100	41.61	-27.43	34.01	35.03	54.00	12.39	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)
17993.400	45.75	-25.50	46.66	24.59	54.00	8.25	H
17996.700	45.55	-25.50	46.66	24.39	54.00	8.45	H
14498.700	36.83	-28.59	42.46	22.96	54.00	17.17	V
14496.000	36.65	-28.59	42.46	22.78	54.00	17.35	V
5459.100	40.79	-27.18	34.17	33.80	54.00	13.21	H
5459.700	40.79	-27.18	34.17	33.80	54.00	13.21	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)
17975.200	45.63	-25.50	46.66	24.47	54.00	8.37	V
17987.300	45.63	-25.50	46.66	24.47	54.00	8.37	V
14499.800	37.00	-28.59	42.46	23.13	54.00	17.00	V
14474.000	36.80	-28.59	42.46	22.93	54.00	17.20	V
11830.100	34.29	-31.85	39.05	27.09	54.00	19.71	V
11845.500	34.29	-31.85	39.05	27.09	54.00	19.71	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)
17980.800	45.47	-25.50	46.66	24.31	54.00	8.53	H
17983.500	45.45	-25.50	46.66	24.29	54.00	8.55	V
14492.600	36.86	-28.59	42.46	22.99	54.00	17.14	V
14499.800	36.79	-28.59	42.46	22.92	54.00	17.21	H
11821.300	34.38	-31.85	39.05	27.18	54.00	19.62	V
11812.000	34.29	-31.85	39.05	27.09	54.00	19.71	V

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## 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)
17996.200	45.56	-25.50	46.66	24.40	54.00	8.44	V
17980.800	45.48	-25.50	46.66	24.32	54.00	8.52	V
14479.500	38.64	-28.59	42.46	24.77	54.00	15.36	V
14483.900	38.58	-28.59	42.46	24.71	54.00	15.42	V
5149.900	51.94	-27.61	33.67	45.88	54.00	2.06	H
5149.700	51.54	-27.61	33.67	45.48	54.00	2.46	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)
17996.200	45.60	-25.50	46.66	24.44	54.00	8.40	V
17987.900	45.54	-25.50	46.66	24.38	54.00	8.46	V
14477.800	38.35	-28.59	42.46	24.48	54.00	15.65	V
14478.900	38.30	-28.59	42.46	24.43	54.00	15.70	V
11823.500	34.03	-31.85	39.05	26.83	54.00	19.97	V
11819.100	34.01	-31.85	39.05	26.81	54.00	19.99	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)
17998.900	45.23	-25.50	46.66	24.07	54.00	8.77	H
17991.200	45.20	-25.50	46.66	24.04	54.00	8.80	H
14499.800	38.27	-28.59	42.46	24.40	54.00	15.73	H
14472.300	38.18	-28.59	42.46	24.31	54.00	15.82	V
11819.700	33.27	-31.85	39.05	26.07	54.00	20.73	H
11820.800	33.26	-31.85	39.05	26.06	54.00	20.74	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)
17998.300	45.05	-25.50	46.66	23.89	54.00	8.95	V
17984.600	45.00	-25.50	46.66	23.84	54.00	9.00	H
14494.300	38.21	-28.59	42.46	24.34	54.00	15.79	V
14490.500	38.15	-28.59	42.46	24.28	54.00	15.85	V
5350.100	44.84	-27.43	34.01	38.26	54.00	9.16	H
5350.800	44.57	-27.43	34.01	37.99	54.00	9.43	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)
17984.600	45.57	-25.50	46.66	24.41	54.00	8.43	H
17987.900	45.29	-25.50	46.66	24.13	54.00	8.71	H
14490.500	36.55	-28.59	42.46	22.68	54.00	17.45	H
14492.100	36.48	-28.59	42.46	22.61	54.00	17.52	V
5460.000	40.95	-27.18	34.17	33.96	54.00	13.05	H
5459.800	40.92	-27.18	34.17	33.93	54.00	13.08	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)
17996.200	45.44	-25.50	46.66	24.28	54.00	8.56	V
17994.500	45.30	-25.50	46.66	24.14	54.00	8.70	H
14496.500	36.54	-28.59	42.46	22.67	54.00	17.46	H
14494.300	36.48	-28.59	42.46	22.61	54.00	17.52	V
11816.900	34.24	-31.85	39.05	27.04	54.00	19.76	V
11811.400	34.20	-31.85	39.05	27.00	54.00	19.80	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)
17997.800	45.36	-25.50	46.66	24.20	54.00	8.64	H
17970.800	45.32	-25.50	46.66	24.16	54.00	8.68	H
14499.200	36.67	-28.59	42.46	22.80	54.00	17.33	H
14498.100	36.60	-28.59	42.46	22.73	54.00	17.40	H
11814.700	34.31	-31.85	39.05	27.11	54.00	19.69	H
11821.900	34.19	-31.85	39.05	26.99	54.00	19.81	V

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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)
17998.900	44.99	-25.50	46.66	23.83	54.00	9.01	V
17987.900	44.96	-25.50	46.66	23.80	54.00	9.04	V
14497.000	38.07	-28.59	42.46	24.20	54.00	15.93	V
14493.200	37.92	-28.59	42.46	24.05	54.00	16.08	V
5149.800	46.55	-27.61	33.67	40.49	54.00	7.45	H
5149.900	46.51	-27.61	33.67	40.45	54.00	7.49	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)
17994.500	45.13	-25.50	46.66	23.97	54.00	8.87	V
17997.200	45.00	-25.50	46.66	23.84	54.00	9.00	V
14487.100	38.11	-28.59	42.46	24.24	54.00	15.89	V
14472.900	38.07	-28.59	42.46	24.20	54.00	15.93	V
11815.800	33.47	-31.85	39.05	26.27	54.00	20.53	V
11825.700	33.18	-31.85	39.05	25.98	54.00	20.82	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)
17985.200	45.50	-25.50	46.66	24.34	54.00	8.50	V
17996.200	45.43	-25.50	46.66	24.27	54.00	8.57	V
14495.400	38.99	-28.59	42.46	25.12	54.00	15.01	V
14497.600	38.54	-28.59	42.46	24.67	54.00	15.46	V
11821.900	34.07	-31.85	39.05	26.87	54.00	19.93	V
11919.800	34.00	-31.48	39.09	26.39	54.00	20.00	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)
17998.300	45.56	-25.50	46.66	24.40	54.00	8.44	V
17991.200	45.46	-25.50	46.66	24.30	54.00	8.54	V
14471.800	38.35	-28.59	42.46	24.48	54.00	15.65	V
14483.300	38.34	-28.59	42.46	24.47	54.00	15.66	V
11818.600	34.25	-31.85	39.05	27.05	54.00	19.75	V
11817.500	34.18	-31.85	39.05	26.98	54.00	19.82	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)
17995.000	45.76	-25.50	46.66	24.60	54.00	8.24	V
17979.100	45.59	-25.50	46.66	24.43	54.00	8.41	V
14496.000	38.61	-28.59	42.46	24.74	54.00	15.39	V
14477.200	38.48	-28.59	42.46	24.61	54.00	15.52	V
11824.600	34.17	-31.85	39.05	26.97	54.00	19.83	V
11836.200	34.10	-31.85	39.05	26.90	54.00	19.90	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)
17990.700	45.22	-25.50	46.66	24.06	54.00	8.78	V
17997.800	45.11	-25.50	46.66	23.95	54.00	8.89	V
14496.000	38.12	-28.59	42.46	24.25	54.00	15.88	V
14479.500	38.06	-28.59	42.46	24.19	54.00	15.94	V
5350.100	41.74	-27.43	34.01	35.16	54.00	12.26	H
5350.000	41.48	-27.43	34.01	34.90	54.00	12.52	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)
17983.500	45.61	-25.50	46.66	24.45	54.00	8.39	V
17995.000	45.51	-25.50	46.66	24.35	54.00	8.49	V
14495.400	36.79	-28.59	42.46	22.92	54.00	17.21	V
14488.200	36.76	-28.59	42.46	22.89	54.00	17.24	V
5457.700	40.88	-27.18	34.17	33.89	54.00	13.12	H
5458.100	40.85	-27.18	34.17	33.86	54.00	13.15	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)
17995.000	45.62	-25.50	46.66	24.46	54.00	8.38	V
17987.300	45.61	-25.50	46.66	24.45	54.00	8.39	H
14498.100	36.88	-28.59	42.46	23.01	54.00	17.12	V
14496.500	36.72	-28.59	42.46	22.85	54.00	17.28	H
11831.200	34.15	-31.85	39.05	26.95	54.00	19.85	H
11812.500	34.13	-31.85	39.05	26.93	54.00	19.87	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)
17989.500	45.55	-25.50	46.66	24.39	54.00	8.45	V
17975.800	45.44	-25.50	46.66	24.28	54.00	8.56	H
14495.400	36.63	-28.59	42.46	22.76	54.00	17.37	V
14499.200	36.62	-28.59	42.46	22.75	54.00	17.38	H
11849.400	34.38	-31.85	39.05	27.18	54.00	19.62	V
11818.600	34.28	-31.85	39.05	27.08	54.00	19.72	H

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## 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)
17984.000	45.41	-25.50	46.66	24.25	54.00	8.59	V
17991.200	45.33	-25.50	46.66	24.17	54.00	8.67	V
14493.800	38.58	-28.59	42.46	24.71	54.00	15.42	V
14498.100	38.50	-28.59	42.46	24.63	54.00	15.50	V
5149.900	52.48	-27.61	33.67	46.42	54.00	1.52	H
5149.200	52.20	-27.61	33.67	46.14	54.00	1.80	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)
17991.800	45.54	-25.50	46.66	24.38	54.00	8.46	V
17994.000	45.54	-25.50	46.66	24.38	54.00	8.46	V
14483.900	38.49	-28.59	42.46	24.62	54.00	15.51	V
14498.100	38.46	-28.59	42.46	24.59	54.00	15.54	V
11831.800	34.06	-31.85	39.05	26.86	54.00	19.94	V
11836.700	33.95	-31.85	39.05	26.75	54.00	20.05	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)
17972.500	45.12	-25.50	46.66	23.96	54.00	8.88	H
17996.700	45.09	-25.50	46.66	23.93	54.00	8.91	V
14497.000	38.13	-28.59	42.46	24.26	54.00	15.87	H
14476.100	38.06	-28.59	42.46	24.19	54.00	15.94	H
11840.000	33.16	-31.85	39.05	25.96	54.00	20.84	H
11902.700	33.09	-31.85	39.05	25.89	54.00	20.91	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)
17981.300	45.38	-25.50	46.66	24.22	54.00	8.62	H
17990.100	45.34	-25.50	46.66	24.18	54.00	8.66	H
14476.700	38.47	-28.59	42.46	24.60	54.00	15.53	H
14488.800	38.39	-28.59	42.46	24.52	54.00	15.61	V
5350.300	45.40	-27.43	34.01	38.82	54.00	8.60	H
5350.900	45.33	-27.43	34.01	38.75	54.00	8.67	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)
17995.600	45.45	-25.50	46.66	24.29	54.00	8.55	V
17997.800	45.23	-25.50	46.66	24.07	54.00	8.77	H
14497.600	36.62	-28.59	42.46	22.75	54.00	17.38	H
14498.100	36.58	-28.59	42.46	22.71	54.00	17.42	H
5459.300	40.91	-27.18	34.17	33.92	54.00	13.09	H
5459.900	40.91	-27.18	34.17	33.92	54.00	13.09	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)
17994.500	45.38	-25.50	46.66	24.22	54.00	8.62	V
17979.100	45.37	-25.50	46.66	24.21	54.00	8.63	V
14478.900	36.55	-28.59	42.46	22.68	54.00	17.45	V
14499.800	36.40	-28.59	42.46	22.53	54.00	17.60	V
11823.000	34.40	-31.85	39.05	27.20	54.00	19.60	V
11807.600	34.32	-31.85	39.05	27.12	54.00	19.68	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)
17997.800	45.68	-25.50	46.66	24.52	54.00	8.32	V
17973.600	45.41	-25.50	46.66	24.25	54.00	8.59	H
14489.900	36.81	-28.59	42.46	22.94	54.00	17.19	V
14498.700	36.37	-28.59	42.46	22.50	54.00	17.63	V
11814.700	34.27	-31.85	39.05	27.07	54.00	19.73	H
11821.300	34.23	-31.85	39.05	27.03	54.00	19.77	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)
17994.500	45.27	-25.50	46.66	24.11	54.00	8.73	V
17996.700	45.17	-25.50	46.66	24.01	54.00	8.83	H
14488.200	38.48	-28.59	42.46	24.61	54.00	15.52	H
14481.600	38.46	-28.59	42.46	24.59	54.00	15.54	H
5149.000	53.85	-27.61	33.67	47.79	54.00	0.15	H
5149.800	53.77	-27.61	33.67	47.71	54.00	0.23	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)
17998.300	45.40	-25.50	46.66	24.24	54.00	8.60	H
17990.700	45.33	-25.50	46.66	24.17	54.00	8.67	V
14499.200	38.32	-28.59	42.46	24.45	54.00	15.68	V
14476.100	38.28	-28.59	42.46	24.41	54.00	15.72	H
5350.000	49.65	-27.43	34.01	43.07	54.00	4.35	V
5354.900	49.65	-27.43	34.01	43.07	54.00	4.35	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)
17991.800	45.57	-25.50	46.66	24.41	54.00	8.43	V
17981.300	45.27	-25.50	46.66	24.11	54.00	8.73	H
14489.400	38.62	-28.59	42.46	24.75	54.00	15.38	V
14499.800	38.41	-28.59	42.46	24.54	54.00	15.59	V
5459.000	49.49	-27.18	34.17	42.50	54.00	4.51	H
5458.200	49.47	-27.18	34.17	42.48	54.00	4.53	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)
17987.300	45.19	-25.50	46.66	24.03	54.00	8.81	H
17984.000	45.16	-25.50	46.66	24.00	54.00	8.84	H
14494.300	38.40	-28.59	42.46	24.53	54.00	15.60	H
14492.100	38.34	-28.59	42.46	24.47	54.00	15.66	V
11975.900	33.45	-31.48	39.09	25.84	54.00	20.55	H
11832.300	33.44	-31.85	39.05	26.24	54.00	20.56	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)
17997.200	57.51	-25.50	46.66	36.35	74.00	16.49	V
17991.200	56.56	-25.50	46.66	35.40	74.00	17.44	V
14322.700	51.14	-28.42	42.34	37.22	68.30	17.16	V
14721.500	50.72	-28.32	41.35	37.70	68.30	17.58	V
5142.900	59.92	-27.61	33.67	53.86	74.00	14.08	H
5145.200	58.73	-27.61	33.67	52.67	74.00	15.27	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)
17987.900	57.10	-25.50	46.66	35.94	74.00	16.90	V
17974.200	56.56	-25.50	46.66	35.40	74.00	17.44	V
14530.600	50.88	-28.59	42.46	37.01	68.30	17.42	V
14447.000	50.86	-28.59	42.46	36.99	68.30	17.44	V
11840.000	45.26	-31.85	39.05	38.06	74.00	28.74	V
11066.200	45.11	-32.49	38.72	38.87	74.00	28.89	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)
17953.200	56.80	-25.50	46.66	35.64	74.00	17.20	V
17890.000	56.64	-25.50	46.66	35.48	74.00	17.36	V
14596.000	50.41	-27.29	41.90	35.80	68.30	17.89	V
14516.900	49.96	-28.59	42.46	36.09	68.30	18.34	V
11727.300	44.84	-31.99	38.98	37.85	74.00	29.16	V
11517.700	44.77	-32.26	38.84	38.20	74.00	29.23	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)
17991.800	56.56	-25.50	46.66	35.40	74.00	17.44	V
17988.500	56.54	-25.50	46.66	35.38	74.00	17.46	V
14460.200	49.98	-28.59	42.46	36.11	68.30	18.32	V
14786.900	49.97	-28.32	41.35	36.95	68.30	18.33	V
10518.400	46.69	-32.99	38.27	41.40	68.30	21.61	V
10515.600	46.41	-32.99	38.27	41.12	68.30	21.89	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)
17985.700	56.60	-25.50	46.66	35.44	74.00	17.40	V
17992.800	56.07	-25.50	46.66	34.91	74.00	17.93	V
14516.300	51.45	-28.59	42.46	37.58	68.30	16.85	V
14369.500	50.47	-28.42	42.34	36.55	68.30	17.83	V
10564.000	46.88	-32.99	38.27	41.59	68.30	21.42	V
10560.700	46.85	-32.99	38.27	41.56	68.30	21.45	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)
17890.500	56.41	-25.50	46.66	35.25	74.00	17.59	V
17977.500	56.22	-25.50	46.66	35.06	74.00	17.78	V
14436.000	50.72	-28.59	42.46	36.85	68.30	17.58	V
14312.200	50.00	-28.42	42.34	36.08	68.30	18.30	V
5351.400	60.20	-27.43	34.01	53.62	74.00	13.80	H
5350.200	58.79	-27.43	34.01	52.21	74.00	15.21	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)
17994.000	57.77	-25.50	46.66	36.61	74.00	16.23	V
17989.000	57.11	-25.50	46.66	35.95	74.00	16.89	H
14505.900	49.68	-28.59	42.46	35.81	68.30	18.62	H
14323.200	49.30	-28.42	42.34	35.38	68.30	19.00	H
5456.400	52.14	-27.18	34.17	45.15	74.00	21.86	H
5467.500	56.30	-27.18	34.17	49.31	68.30	12.00	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)
17965.900	57.95	-25.50	46.66	36.79	74.00	16.05	H
17980.800	57.92	-25.50	46.66	36.76	74.00	16.08	V
14669.200	49.12	-27.29	41.90	34.51	68.30	19.18	V
14409.000	49.01	-28.59	42.46	35.14	68.30	19.29	V
11814.200	46.42	-31.85	39.05	39.22	74.00	27.58	V
11862.000	46.37	-31.85	39.05	39.17	74.00	27.63	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)
17989.000	57.58	-25.50	46.66	36.42	74.00	16.42	H
17970.300	57.27	-25.50	46.66	36.11	74.00	16.73	V
14197.900	49.15	-28.99	42.00	36.13	68.30	19.15	V
14118.100	48.90	-28.99	42.00	35.88	68.30	19.40	H
5725.200	64.97	-27.07	34.31	57.73	68.30	3.33	H
5726.500	63.01	-27.07	34.31	55.77	68.30	5.29	H

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## 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)
17969.800	56.71	-25.50	46.66	35.55	74.00	17.29	V
17970.800	56.40	-25.50	46.66	35.24	74.00	17.60	V
14652.100	50.81	-27.29	41.90	36.20	68.30	17.49	V
14395.300	50.69	-28.59	42.46	36.82	68.30	17.61	V
5149.700	59.50	-27.61	33.67	53.44	74.00	14.50	H
5148.900	58.07	-27.61	33.67	52.01	74.00	15.93	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)
17984.000	56.21	-25.50	46.66	35.05	74.00	17.79	V
17994.000	56.19	-25.50	46.66	35.03	74.00	17.81	V
14379.900	51.04	-28.42	42.34	37.12	68.30	17.26	V
14509.100	50.91	-28.59	42.46	37.04	68.30	17.39	V
10401.200	47.27	-33.22	38.19	42.30	68.30	21.03	V
10404.500	47.20	-33.22	38.19	42.23	68.30	21.10	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)
17996.200	56.62	-25.50	46.66	35.46	74.00	17.38	V
17910.900	56.57	-25.50	46.66	35.41	74.00	17.43	V
14589.500	50.51	-27.29	41.90	35.90	68.30	17.79	V
14123.000	50.17	-28.99	42.00	37.15	68.30	18.13	V
10484.800	49.03	-32.99	38.27	43.74	68.30	19.27	V
10479.300	48.29	-32.99	38.27	43.00	68.30	20.01	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)
17996.200	57.48	-25.50	46.66	36.32	74.00	16.52	V
17991.200	56.84	-25.50	46.66	35.68	74.00	17.16	V
14383.800	50.28	-28.42	42.34	36.36	68.30	18.02	V
14361.200	50.19	-28.42	42.34	36.27	68.30	18.11	V
10525.000	48.44	-32.99	38.27	43.15	68.30	19.86	V
10517.800	48.37	-32.99	38.27	43.08	68.30	19.93	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)
17987.300	57.25	-25.50	46.66	36.09	74.00	16.75	V
17997.200	56.51	-25.50	46.66	35.35	74.00	17.49	V
14519.000	50.75	-28.59	42.46	36.88	68.30	17.55	V
14765.500	50.51	-28.32	41.35	37.49	68.30	17.79	V
10561.800	49.63	-32.99	38.27	44.34	68.30	18.67	V
10560.700	48.74	-32.99	38.27	43.45	68.30	19.56	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)
17974.700	56.18	-25.50	46.66	35.02	74.00	17.82	V
17987.900	56.10	-25.50	46.66	34.94	74.00	17.90	V
14427.800	50.00	-28.59	42.46	36.13	68.30	18.30	V
14400.800	49.99	-28.59	42.46	36.12	68.30	18.31	V
5354.000	61.58	-27.43	34.01	55.00	74.00	12.42	H
5350.400	61.00	-27.43	34.01	54.42	74.00	13.00	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)
17975.800	57.25	-25.50	46.66	36.09	74.00	16.75	V
17980.800	57.08	-25.50	46.66	35.92	74.00	16.92	V
14115.900	49.60	-28.99	42.00	36.58	68.30	18.70	H
14676.900	48.85	-27.29	41.90	34.24	68.30	19.45	V
5458.500	55.63	-27.18	34.17	48.64	74.00	18.37	H
5468.800	59.00	-27.18	34.17	52.01	68.30	9.30	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)
17994.000	56.83	-25.50	46.66	35.67	74.00	17.17	V
17972.500	56.24	-25.50	46.66	35.08	74.00	17.76	V
14174.800	50.00	-28.99	42.00	36.98	68.30	18.30	V
14415.600	49.04	-28.59	42.46	35.17	68.30	19.26	V
11975.300	46.04	-31.48	39.09	38.43	74.00	27.96	V
11814.200	45.72	-31.85	39.05	38.52	74.00	28.28	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)
17996.200	57.30	-25.50	46.66	36.14	74.00	16.70	V
17997.200	57.04	-25.50	46.66	35.88	74.00	16.96	H
14112.000	49.10	-28.99	42.00	36.08	68.30	19.20	H
14910.600	48.95	-28.59	40.79	36.75	68.30	19.35	H
5726.200	58.50	-27.07	34.31	51.26	68.30	9.80	V
5726.800	56.40	-27.07	34.31	49.16	68.30	11.90	V

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## 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)
17954.900	56.47	-25.50	46.66	35.31	74.00	17.53	V
17995.600	56.43	-25.50	46.66	35.27	74.00	17.57	V
14360.100	50.72	-28.42	42.34	36.80	68.30	17.58	V
14616.400	50.57	-27.29	41.90	35.96	68.30	17.73	V
5149.000	65.35	-27.61	33.67	59.29	74.00	8.65	H
5148.000	65.29	-27.61	33.67	59.23	74.00	8.71	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)
17977.500	57.45	-25.50	46.66	36.29	74.00	16.55	V
17992.300	56.76	-25.50	46.66	35.60	74.00	17.24	V
14429.400	50.00	-28.59	42.46	36.13	68.30	18.30	V
14373.300	49.89	-28.42	42.34	35.97	68.30	18.41	V
10451.800	45.90	-33.22	38.19	40.93	68.30	22.40	V
11894.500	45.48	-31.85	39.05	38.28	74.00	28.52	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)
17887.200	56.64	-25.50	46.66	35.48	74.00	17.36	V
17979.700	56.48	-25.50	46.66	35.32	74.00	17.52	V
14369.500	51.68	-28.42	42.34	37.76	68.30	16.62	H
14371.600	50.86	-28.42	42.34	36.94	68.30	17.44	V
10529.900	45.16	-32.99	38.27	39.87	68.30	23.14	V
11859.300	44.99	-31.85	39.05	37.79	74.00	29.01	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)
17998.300	57.29	-25.50	46.66	36.13	74.00	16.71	V
17985.200	56.78	-25.50	46.66	35.62	74.00	17.22	H
14399.100	50.36	-28.59	42.46	36.49	68.30	17.94	H
14390.400	50.34	-28.42	42.34	36.42	68.30	17.96	V
5350.600	63.40	-27.43	34.01	56.82	74.00	10.60	H
5351.300	63.05	-27.43	34.01	56.47	74.00	10.95	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)
17978.000	56.90	-25.50	46.66	35.74	74.00	17.10	V
17996.200	56.56	-25.50	46.66	35.40	74.00	17.44	H
14607.000	50.54	-27.29	41.90	35.93	68.30	17.76	H
14664.800	49.81	-27.29	41.90	35.20	68.30	18.49	V
5459.400	58.89	-27.18	34.17	51.90	74.00	15.11	H
5469.300	64.44	-27.18	34.17	57.45	68.30	3.86	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)
17987.300	57.13	-25.50	46.66	35.97	74.00	16.87	V
17996.700	57.09	-25.50	46.66	35.93	74.00	16.91	H
13636.300	49.20	-29.50	40.43	38.27	68.30	19.10	V
14487.700	49.04	-28.59	42.46	35.17	74.00	24.96	V
11951.700	46.59	-31.48	39.09	38.98	74.00	27.41	H
11816.400	46.14	-31.85	39.05	38.94	74.00	27.86	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)
17995.600	57.61	-25.50	46.66	36.45	74.00	16.39	H
17989.500	57.44	-25.50	46.66	36.28	74.00	16.56	V
14591.100	49.96	-27.29	41.90	35.35	68.30	18.34	V
14595.500	48.92	-27.29	41.90	34.31	68.30	19.38	V
5728.100	53.29	-27.07	34.31	46.05	68.30	15.01	H
5726.500	53.02	-27.07	34.31	45.78	68.30	15.28	H

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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)
17979.100	56.85	-25.50	46.66	35.69	74.00	17.15	V
17898.200	56.47	-25.50	46.66	35.31	74.00	17.53	V
14532.200	50.03	-28.59	42.46	36.16	68.30	18.27	V
14381.000	49.82	-28.42	42.34	35.90	68.30	18.48	V
5149.300	60.01	-27.61	33.67	53.95	74.00	13.99	H
5149.900	59.80	-27.61	33.67	53.74	74.00	14.20	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)
17981.300	56.45	-25.50	46.66	35.29	74.00	17.55	V
17991.200	56.38	-25.50	46.66	35.22	74.00	17.62	V
14496.500	50.44	-28.59	42.46	36.57	74.00	23.56	V
14730.800	50.25	-28.32	41.35	37.23	68.30	18.05	V
11859.300	45.71	-31.85	39.05	38.51	74.00	28.29	V
11983.000	44.83	-31.48	39.09	37.22	74.00	29.17	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)
17981.800	56.49	-25.50	46.66	35.33	74.00	17.51	V
17979.700	56.24	-25.50	46.66	35.08	74.00	17.76	V
14398.000	50.26	-28.59	42.46	36.39	68.30	18.04	V
14376.600	50.22	-28.42	42.34	36.30	68.30	18.08	V
10471.600	47.52	-32.99	38.27	42.23	68.30	20.78	V
10488.700	47.36	-32.99	38.27	42.07	68.30	20.94	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)
17985.700	56.89	-25.50	46.66	35.73	74.00	17.11	V
17998.300	56.31	-25.50	46.66	35.15	74.00	17.69	V
14817.700	50.76	-28.32	41.35	37.74	68.30	17.54	V
14519.600	50.25	-28.59	42.46	36.38	68.30	18.05	V
10522.200	48.89	-32.99	38.27	43.60	68.30	19.41	V
10523.300	48.03	-32.99	38.27	42.74	68.30	20.27	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)
17983.000	56.83	-25.50	46.66	35.67	74.00	17.17	V
17972.000	56.34	-25.50	46.66	35.18	74.00	17.66	V
14388.100	51.38	-28.42	42.34	37.46	68.30	16.92	V
14260.000	50.96	-28.42	42.34	37.04	68.30	17.34	V
10562.900	49.97	-32.99	38.27	44.68	68.30	18.33	V
10562.400	47.95	-32.99	38.27	42.66	68.30	20.35	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)
17894.400	56.36	-25.50	46.66	35.20	74.00	17.64	V
17983.000	56.11	-25.50	46.66	34.95	74.00	17.89	V
14530.600	50.41	-28.59	42.46	36.54	68.30	17.89	V
14344.100	50.25	-28.42	42.34	36.33	68.30	18.05	V
5350.800	60.92	-27.43	34.01	54.34	74.00	13.08	V
5350.900	60.86	-27.43	34.01	54.28	74.00	13.14	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)
17971.400	57.67	-25.50	46.66	36.51	74.00	16.33	V
17976.900	57.30	-25.50	46.66	36.14	74.00	16.70	V
14497.600	48.97	-28.59	42.46	35.10	74.00	25.03	H
14309.500	48.89	-28.42	42.34	34.97	68.30	19.41	H
5457.800	56.95	-27.18	34.17	49.96	74.00	17.05	H
5464.600	58.85	-27.18	34.17	51.86	68.30	9.45	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)
17965.300	57.66	-25.50	46.66	36.50	74.00	16.34	V
17989.500	57.61	-25.50	46.66	36.45	74.00	16.39	H
14168.700	49.70	-28.99	42.00	36.68	68.30	18.60	H
14112.600	49.30	-28.99	42.00	36.28	68.30	19.00	V
11848.800	45.92	-31.85	39.05	38.72	74.00	28.08	H
11414.300	45.77	-32.42	38.79	39.40	74.00	28.23	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)
17979.700	56.83	-25.50	46.66	35.67	74.00	17.17	V
17990.700	56.69	-25.50	46.66	35.53	74.00	17.31	H
14237.500	49.48	-28.99	42.00	36.46	68.30	18.82	H
14508.000	49.43	-28.59	42.46	35.56	68.30	18.87	V
5725.200	66.11	-27.07	34.31	58.87	68.30	2.19	H
5725.100	65.12	-27.07	34.31	57.88	68.30	3.18	H

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## 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)
17928.500	57.12	-25.50	46.66	35.96	74.00	16.88	V
17929.600	56.72	-25.50	46.66	35.56	74.00	17.28	V
14678.500	50.79	-27.29	41.90	36.18	68.30	17.51	V
14362.900	50.52	-28.42	42.34	36.60	68.30	17.78	V
5147.200	67.86	-27.61	33.67	61.80	74.00	6.14	H
5149.500	67.21	-27.61	33.67	61.15	74.00	6.79	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)
17998.300	56.70	-25.50	46.66	35.54	74.00	17.30	V
17992.800	56.57	-25.50	46.66	35.41	74.00	17.43	V
14500.400	50.42	-28.59	42.46	36.55	68.30	17.88	V
14520.700	50.16	-28.59	42.46	36.29	68.30	18.14	V
11606.800	46.16	-32.31	38.91	39.57	74.00	27.84	V
10461.200	45.80	-33.22	38.19	40.83	68.30	22.50	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)
17984.600	57.56	-25.50	46.66	36.40	74.00	16.44	H
17965.300	56.68	-25.50	46.66	35.52	74.00	17.32	V
14467.400	50.81	-28.59	42.46	36.94	68.30	17.49	H
14387.600	49.93	-28.42	42.34	36.01	68.30	18.37	V
10538.200	45.67	-32.99	38.27	40.38	68.30	22.63	V
11995.700	45.14	-31.48	39.09	37.53	74.00	28.86	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)
17998.300	57.12	-25.50	46.66	35.96	74.00	16.88	V
17972.500	57.00	-25.50	46.66	35.84	74.00	17.00	H
14375.000	50.87	-28.42	42.34	36.95	68.30	17.43	H
14419.500	50.36	-28.59	42.46	36.49	68.30	17.94	H
5350.700	62.94	-27.43	34.01	56.36	74.00	11.06	H
5357.100	61.94	-27.43	34.01	55.36	74.00	12.06	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)
17983.000	56.89	-25.50	46.66	35.73	74.00	17.11	H
17978.000	56.83	-25.50	46.66	35.67	74.00	17.17	H
14203.900	48.89	-28.99	42.00	35.87	68.30	19.41	V
14604.900	48.79	-27.29	41.90	34.18	68.30	19.51	V
5459.900	56.44	-27.18	34.17	49.45	74.00	17.56	H
5468.300	62.25	-27.18	34.17	55.26	68.30	6.05	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)
17997.800	56.90	-25.50	46.66	35.74	74.00	17.10	V
17986.800	56.86	-25.50	46.66	35.70	74.00	17.14	H
14513.000	49.06	-28.59	42.46	35.19	68.30	19.24	H
14518.500	48.82	-28.59	42.46	34.95	68.30	19.48	V
11831.800	47.23	-31.85	39.05	40.03	74.00	26.77	H
11822.400	46.11	-31.85	39.05	38.91	74.00	27.89	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)
17981.800	57.14	-25.50	46.66	35.98	74.00	16.86	H
17975.800	57.02	-25.50	46.66	35.86	74.00	16.98	V
14153.300	49.52	-28.99	42.00	36.50	68.30	18.78	H
14141.200	49.13	-28.99	42.00	36.11	68.30	19.17	H
5725.100	51.51	-27.07	34.31	44.27	68.30	16.79	H
5768.700	51.09	-27.07	34.33	43.83	68.30	17.21	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)
17990.700	56.79	-25.50	46.66	35.63	74.00	17.21	V
17990.100	56.48	-25.50	46.66	35.32	74.00	17.52	H
14511.400	50.30	-28.59	42.46	36.43	68.30	18.00	H
14488.200	50.25	-28.59	42.46	36.38	74.00	23.75	H
5148.200	68.11	-27.61	33.67	62.05	74.00	5.89	H
5149.900	67.76	-27.61	33.67	61.70	74.00	6.24	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)
17987.900	57.48	-25.50	46.66	36.32	74.00	16.52	H
17958.800	56.90	-25.50	46.66	35.74	74.00	17.10	H
14092.200	50.45	-29.44	41.66	38.23	68.30	17.85	H
14439.300	50.43	-28.59	42.46	36.56	68.30	17.87	V
5359.900	66.89	-27.43	34.01	60.31	74.00	7.11	V
5351.400	66.09	-27.43	34.01	59.51	74.00	7.91	V

## 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)
17975.200	56.37	-25.50	46.66	35.21	74.00	17.63	H
17972.000	56.23	-25.50	46.66	35.07	74.00	17.77	H
14439.900	50.60	-28.59	42.46	36.73	68.30	17.70	V
14393.600	50.59	-28.59	42.46	36.72	68.30	17.71	H
5459.600	66.16	-27.18	34.17	59.17	74.00	7.84	H
5463.500	67.36	-27.18	34.17	60.37	68.30	0.94	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)
17984.600	58.54	-25.50	46.66	37.38	74.00	15.46	H
17976.900	56.88	-25.50	46.66	35.72	74.00	17.12	V
14387.600	50.23	-28.42	42.34	36.31	68.30	18.07	V
14811.100	50.11	-28.32	41.35	37.09	68.30	18.19	V
5781.700	51.13	-27.07	34.33	43.87	68.30	17.17	V
5792.200	50.96	-27.07	34.33	43.70	68.30	17.34	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)

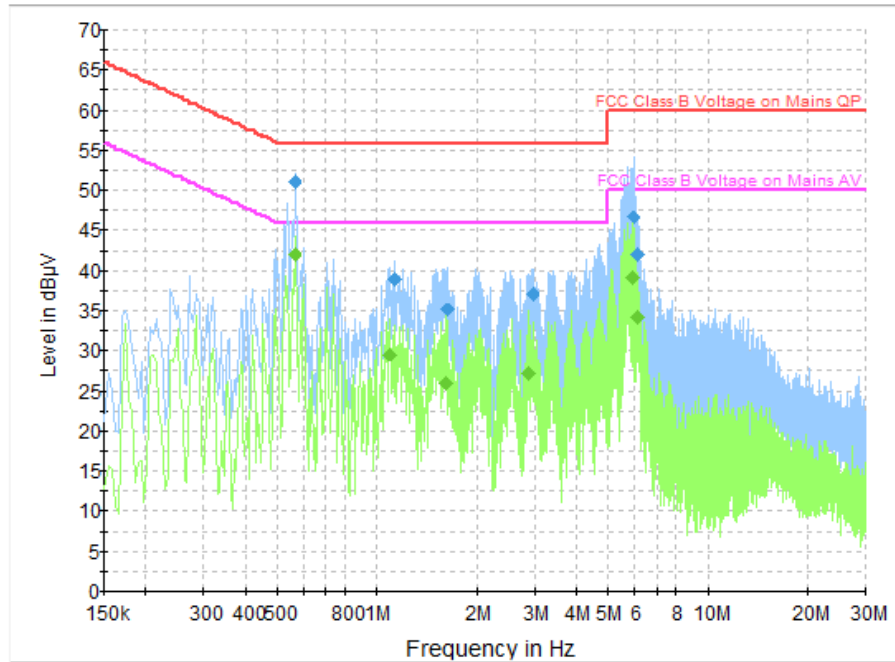
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.58	Fig.59	<b>P</b>
0.5 to 5	46			
5 to 30	50			

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

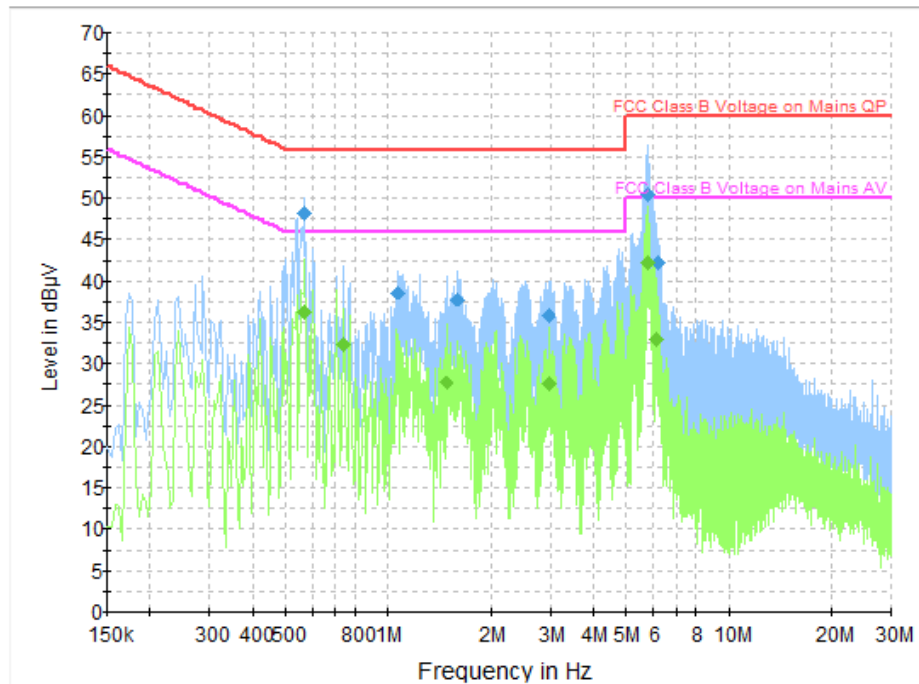
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.566000	51.2	2000.0	9.000	On	L1	19.8	4.8	
1.134000	38.9	2000.0	9.000	On	L1	19.5	17.1	
1.646000	35.1	2000.0	9.000	On	L1	19.5	20.9	
2.950000	37.1	2000.0	9.000	On	L1	19.5	18.9	
5.918000	46.7	2000.0	9.000	On	L1	19.5	13.3	
6.134000	42.2	2000.0	9.000	On	L1	19.6	17.8	

### Final Result 2

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.566000	42.0	2000.0	9.000	On	N	19.9	4.0	
1.098000	29.6	2000.0	9.000	On	L1	19.5	16.4	
1.614000	25.9	2000.0	9.000	On	L1	19.5	20.1	
2.878000	27.2	2000.0	9.000	On	L1	19.5	18.8	
5.874000	39.1	2000.0	9.000	On	L1	19.5	10.9	
6.122000	34.2	2000.0	9.000	On	L1	19.6	15.8	

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)
0.570000	48.3	2000.0	9.000	On	L1	19.8	7.7	
1.066000	38.6	2000.0	9.000	On	L1	19.6	17.4	
1.598000	37.9	2000.0	9.000	On	L1	19.5	18.1	
2.950000	35.9	2000.0	9.000	On	L1	19.5	20.1	
5.786000	50.6	2000.0	9.000	On	L1	19.5	9.4	
6.150000	42.3	2000.0	9.000	On	L1	19.6	17.7	

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.570000	36.3	2000.0	9.000	On	L1	19.8	9.7	
0.738000	32.4	2000.0	9.000	On	L1	19.7	13.6	
1.486000	27.8	2000.0	9.000	On	N	19.8	18.2	
2.978000	27.5	2000.0	9.000	On	L1	19.5	18.5	
5.758000	42.2	2000.0	9.000	On	L1	19.5	7.8	
6.122000	33.1	2000.0	9.000	On	L1	19.6	17.0	

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).

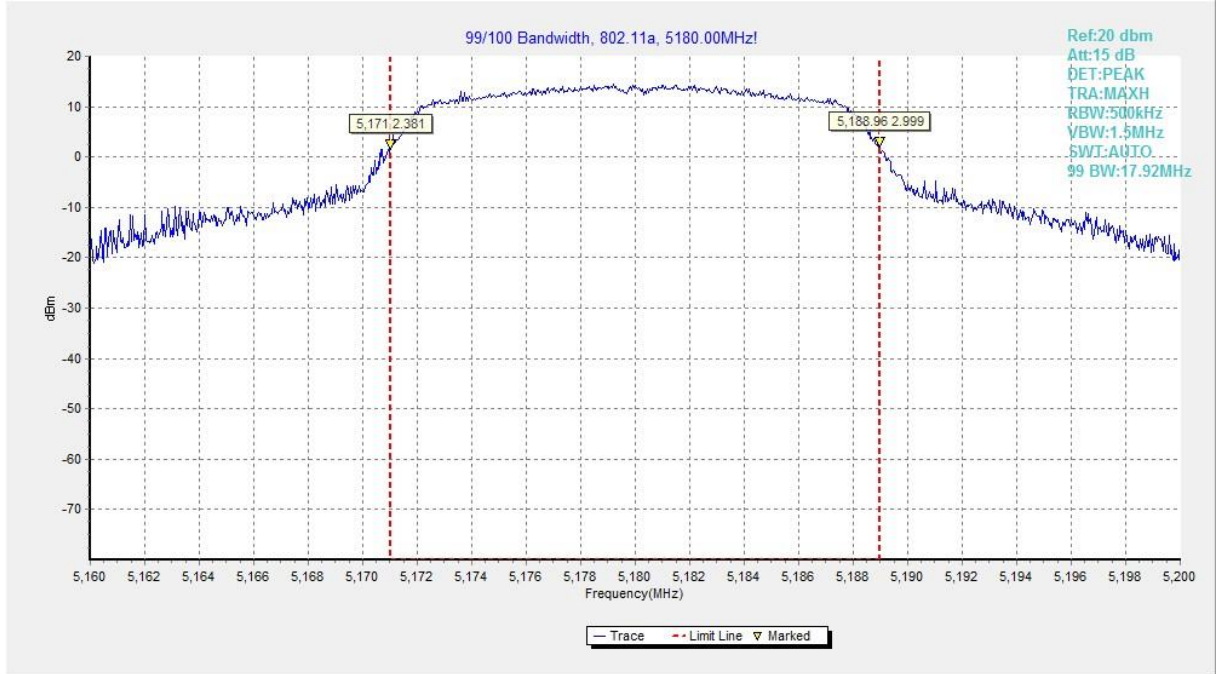
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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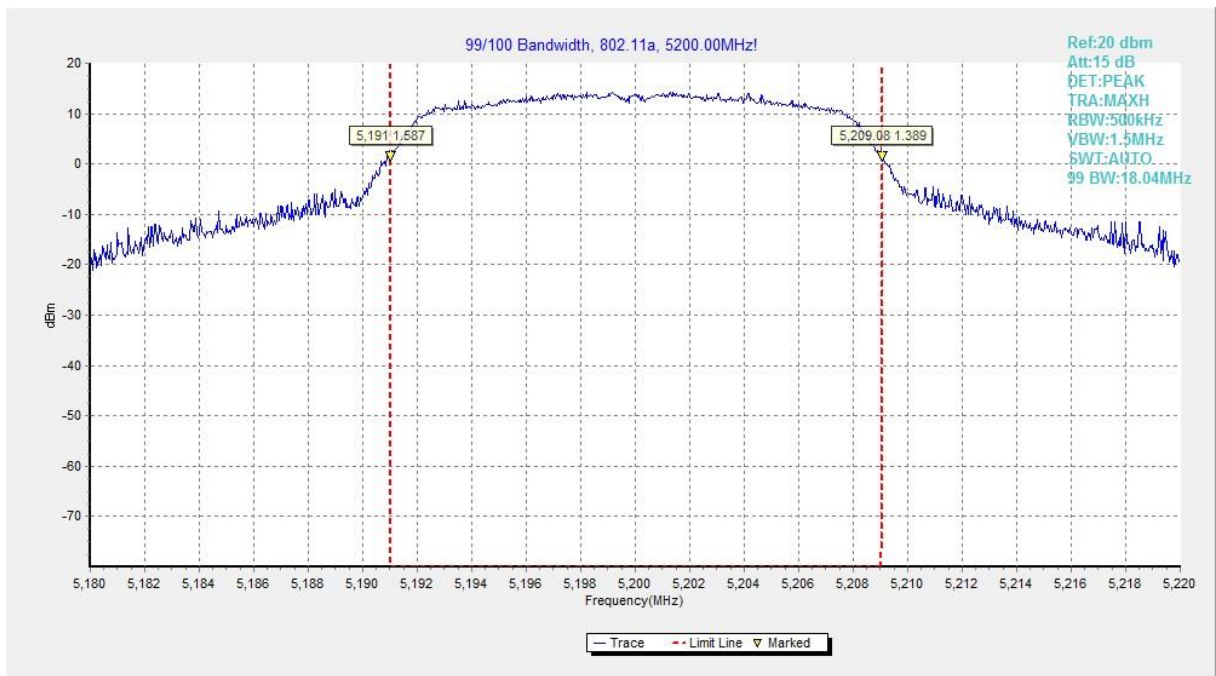
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
802.11a	5180 MHz	Fig.60	17.92	P
	5200 MHz	Fig.61	18.04	P
	5240 MHz	Fig.62	17.88	P
802.11n HT20	5180 MHz	Fig.63	18.60	P
	5200 MHz	Fig.64	18.64	P
	5240 MHz	Fig.65	18.52	P
802.11n HT40	5190 MHz	Fig.66	36.72	P
	5230 MHz	Fig.67	36.56	P
802.11ac HT80	5210 MHz	Fig.68	76.00	P

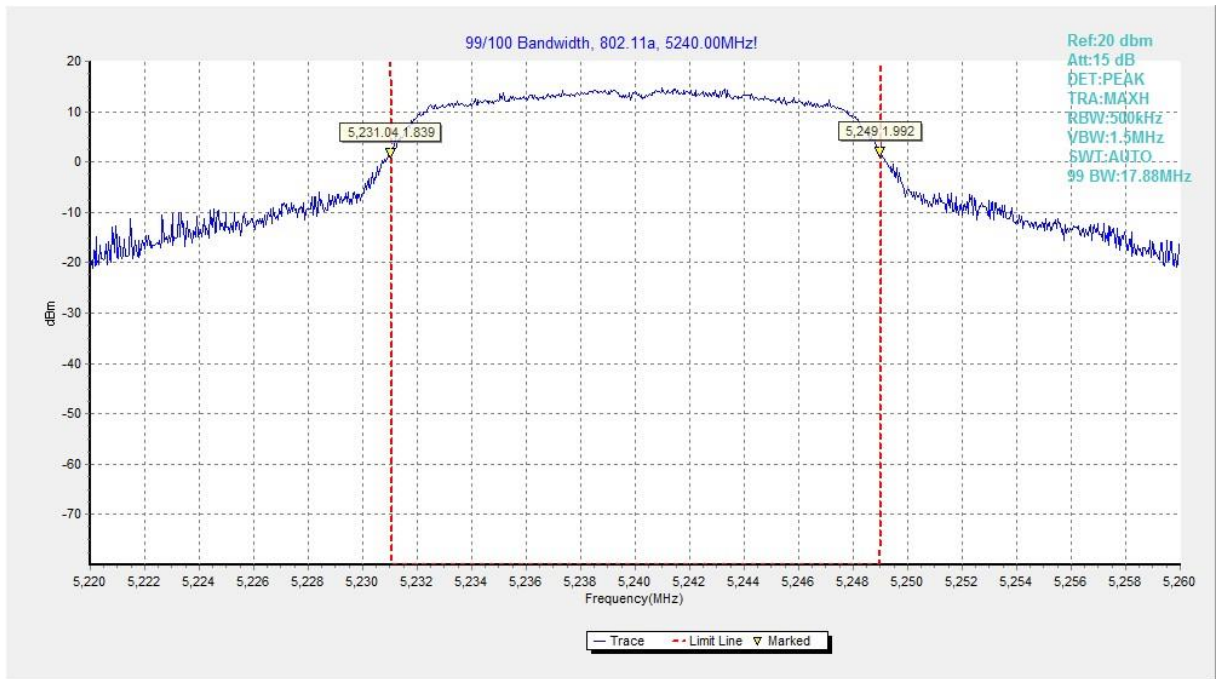
**Conclusion: PASS**  
**Test graphs as below:**



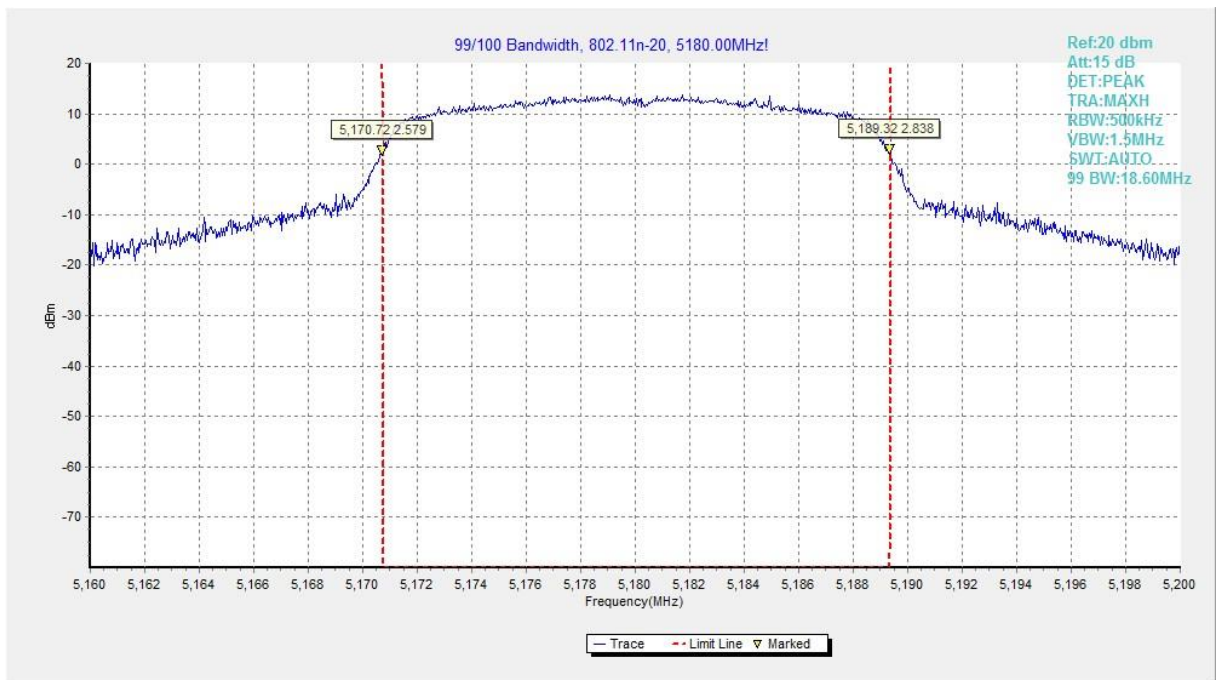
**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**



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

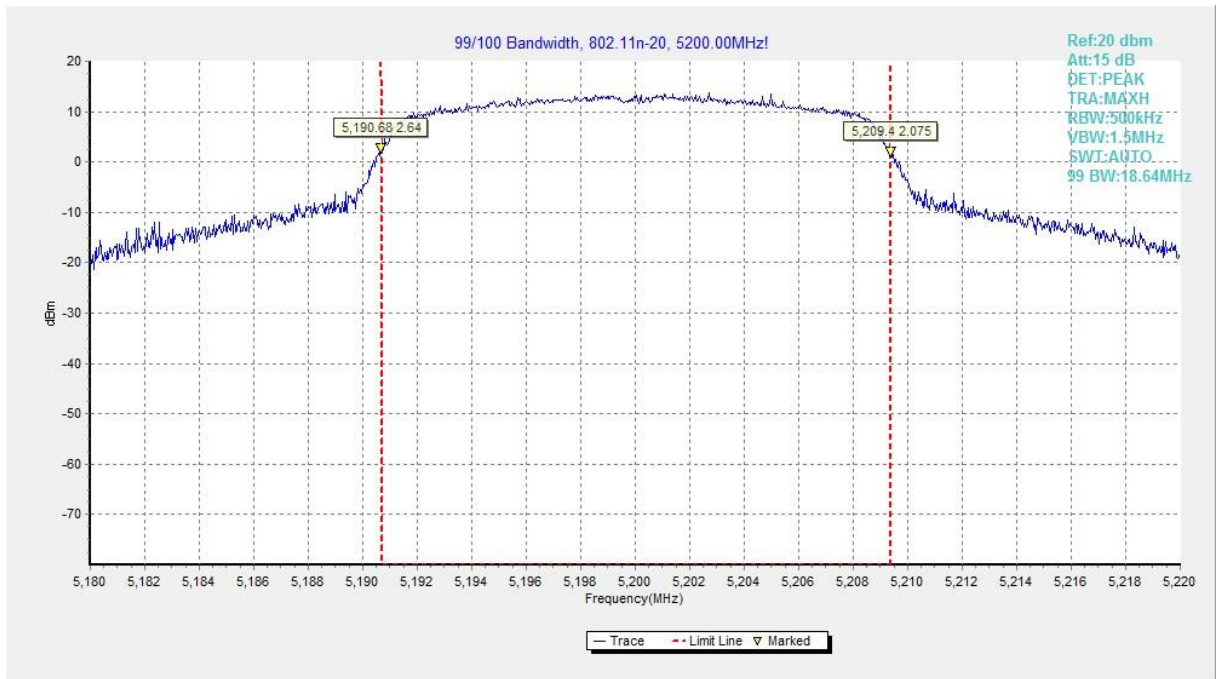


**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**

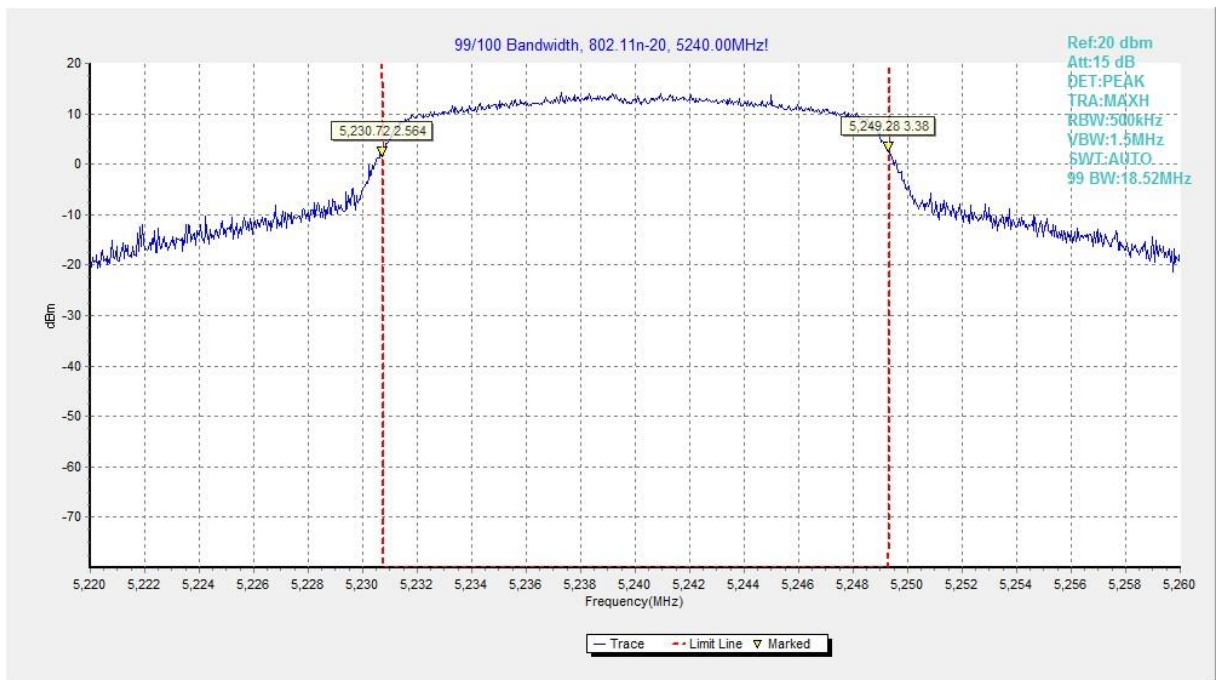


**Fig.63 99% Occupied bandwidth (802.11n-HT20, 5180MHz)**

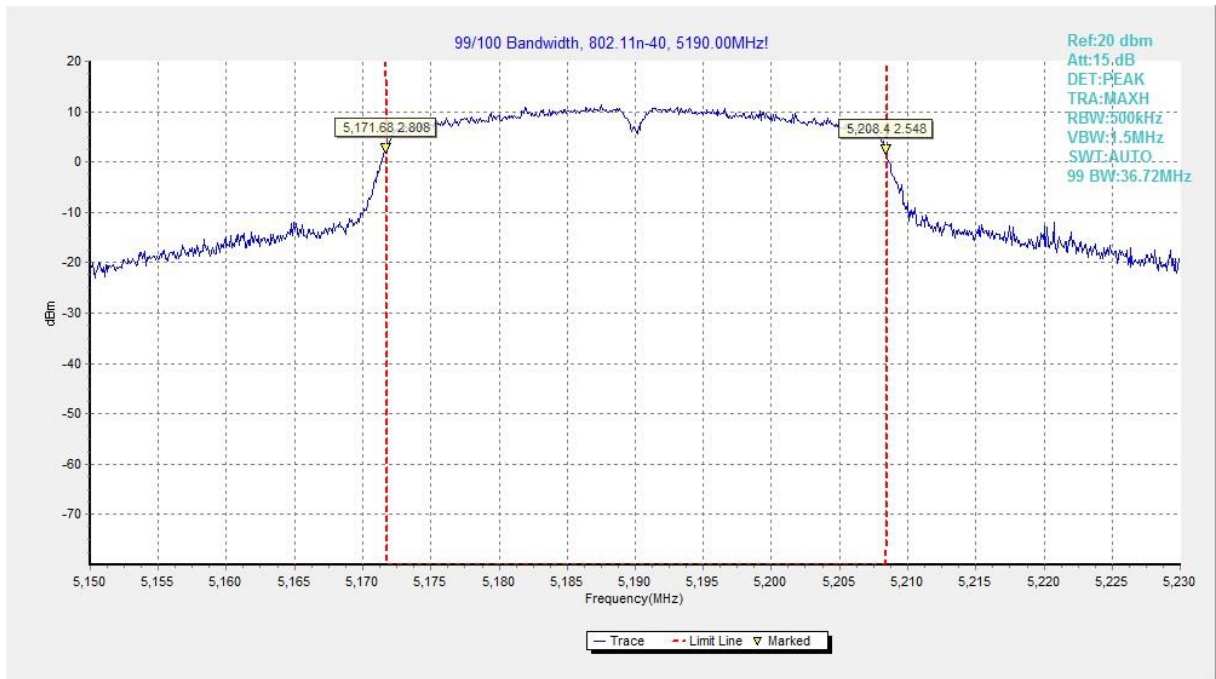




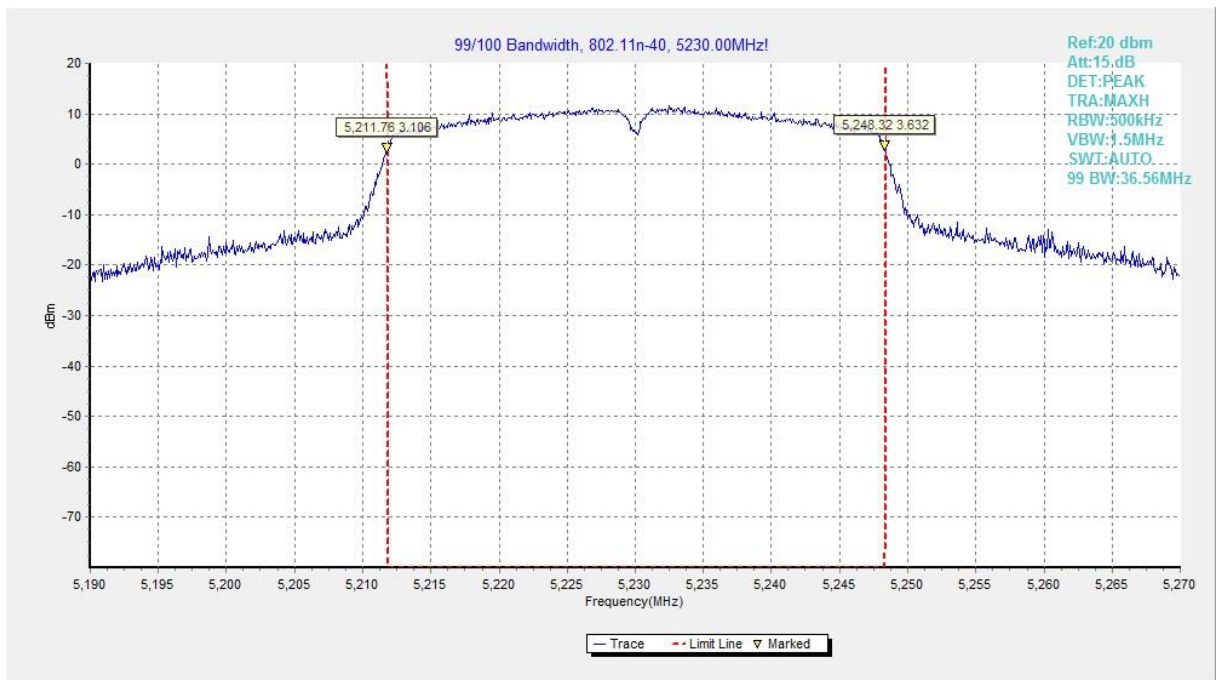
**Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)**



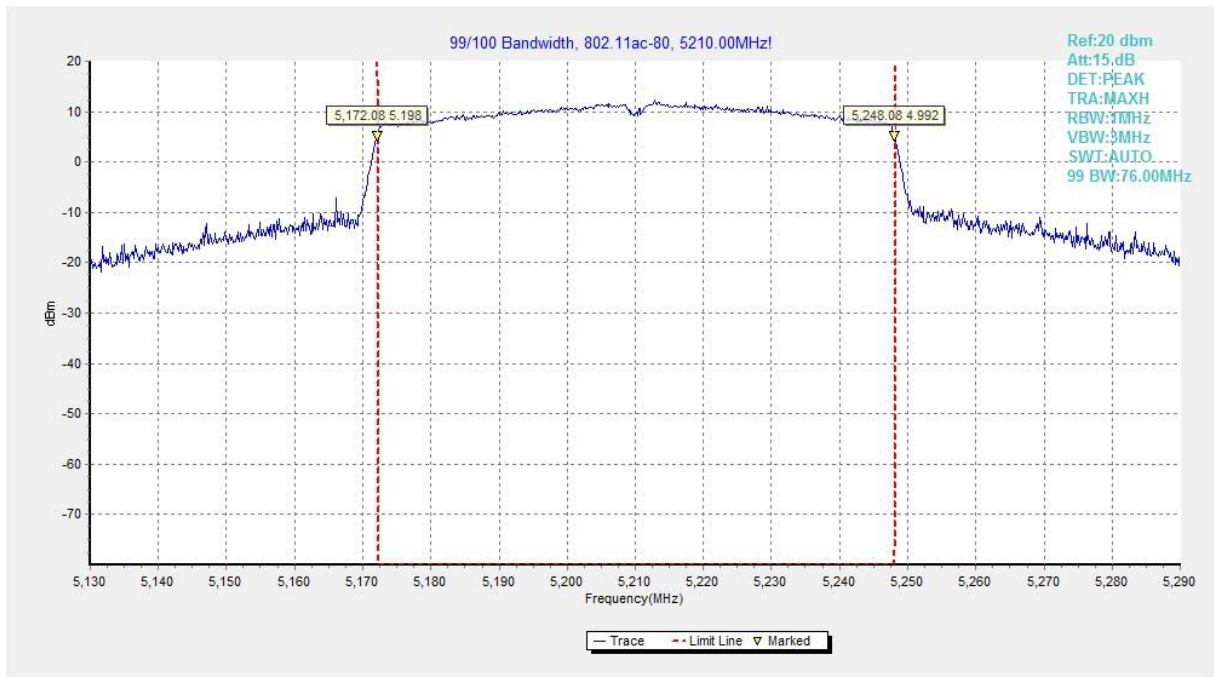
**Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)**



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



**Fig.67 99% Occupied bandwidth (802.11n-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 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

<p>United States Department of Commerce National Institute of Standards and Technology</p>  	
<hr/> <b>Certificate of Accreditation to ISO/IEC 17025:2017</b> <hr/>	
NVLAP LAB CODE: 600118-0	
<b>Telecommunication Technology Labs, CAICT</b> Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
<b>Electromagnetic Compatibility &amp; Telecommunications</b>	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i>	
<hr/> 2021-09-29 through 2022-09-30 <i>Effective Dates</i>	 For the National Voluntary Laboratory Accreditation Program

\*\*\* END OF REPORT BODY \*\*\*