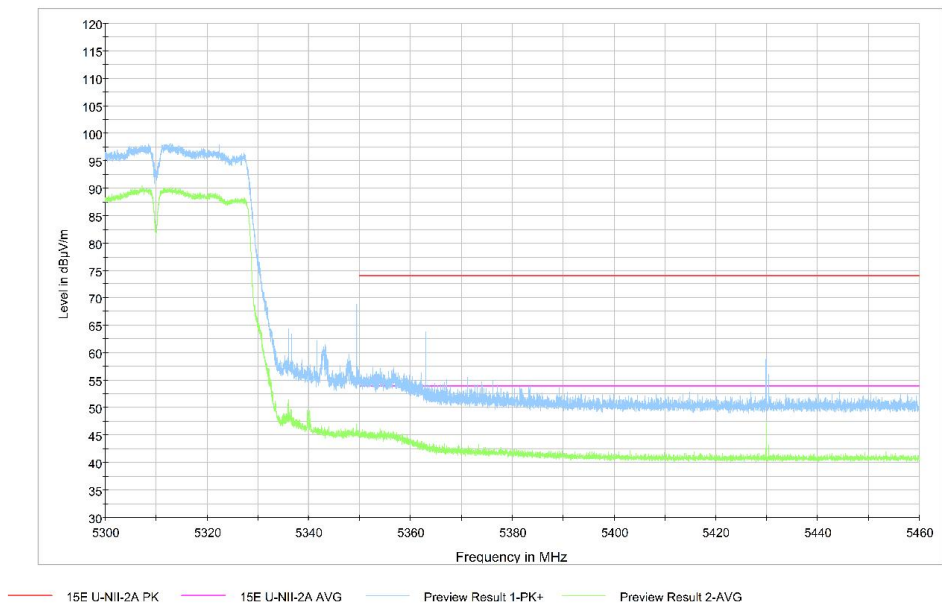
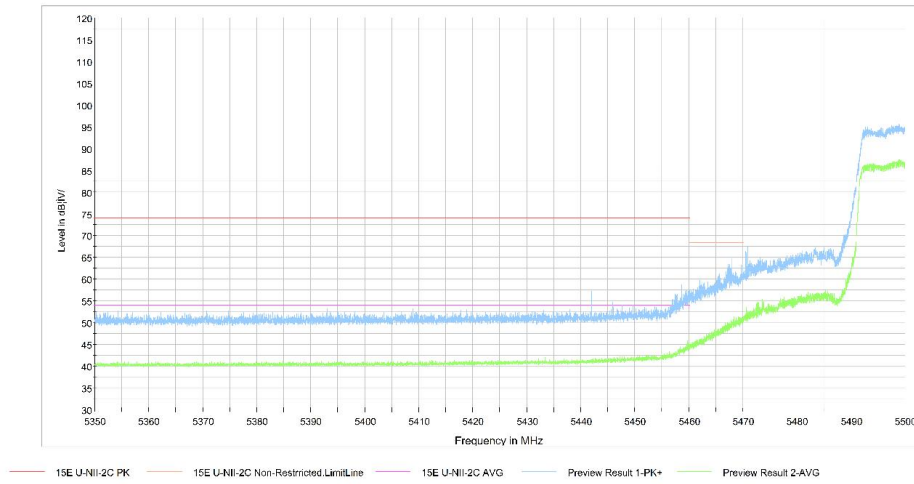


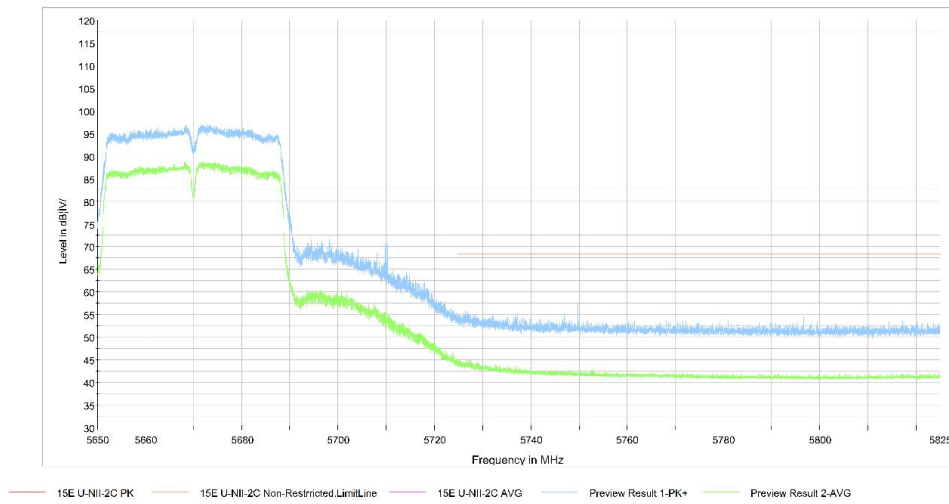
**Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)**



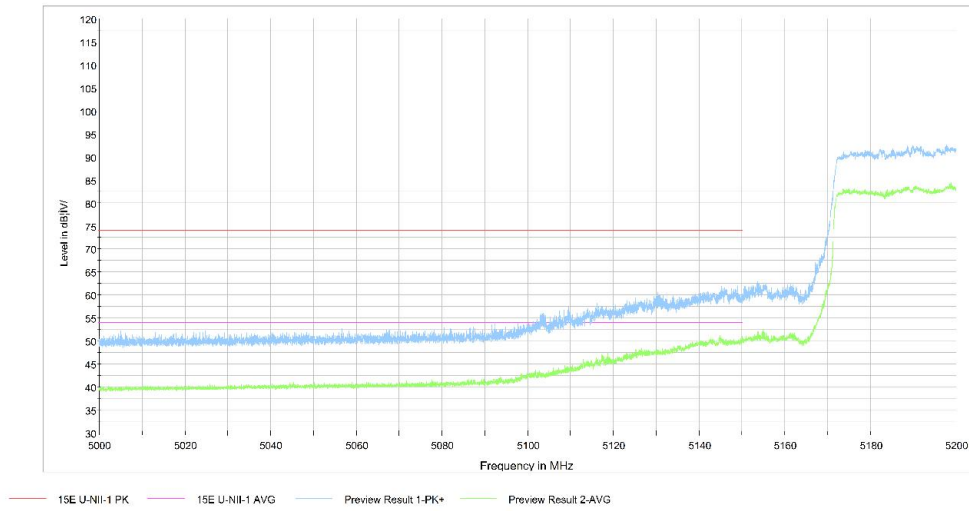
**Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)**



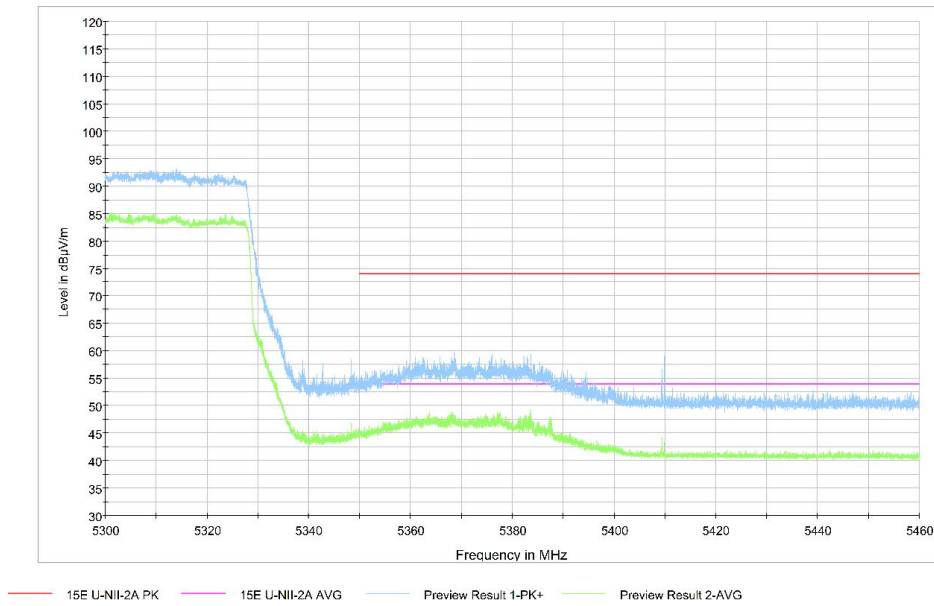
**Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)**



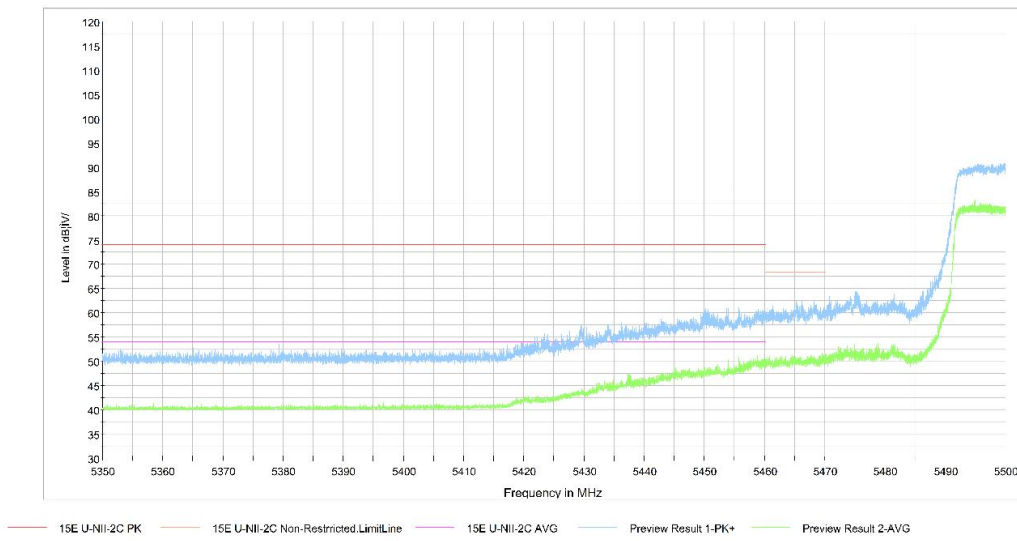
**Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)**



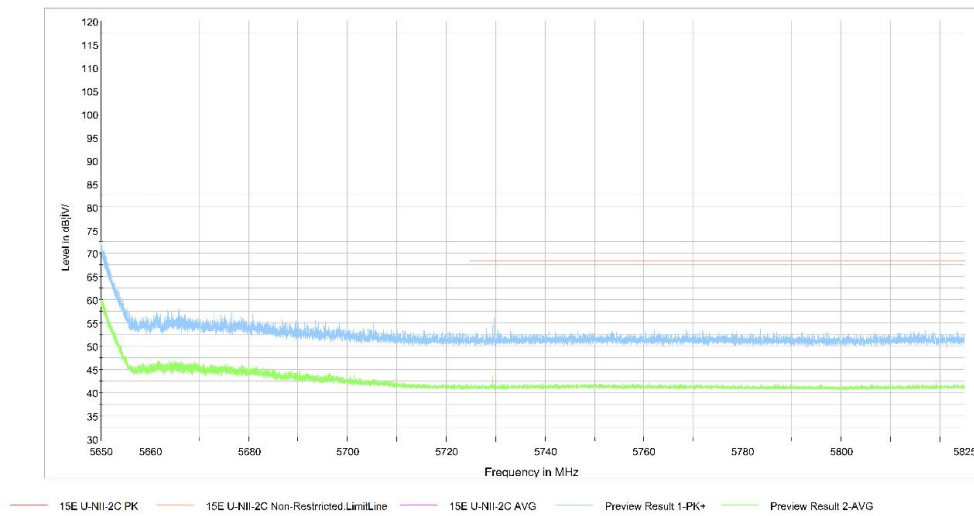
**Fig.54 Band Edges (802.11ac-HT80 Ch42 , 5210MHz)**



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



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



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

## A.6. Transmitter Spurious Emission

### Measurement Limit:

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

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

### Limit in restricted band:

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

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

### 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	---
	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
		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	---
	3 GHz ~ 7 GHz		---	P
	7 GHz ~ 18 GHz		---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P

**802.11ac-HT40 mode**

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

**802.11ac-HT80 mode**

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

**Conclusion: PASS**

**Note:**

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

$P_{Mea}$  is the field strength recorded from the instrument.

The measurement results are obtained as described below:

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

**AVERAGE Results:**
**802.11a**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17976.900	43.06	-25.50	46.66	21.90	54.00	10.94	V
17937.300	42.69	-25.50	46.66	21.53	54.00	11.31	H
12332.250	39.57	-31.10	38.94	31.73	54.00	14.43	V
12314.100	39.10	-31.10	38.94	31.26	54.00	14.90	V
5146.640	42.69	-27.61	33.67	36.63	54.00	11.31	V
5147.040	42.57	-27.61	33.67	36.51	54.00	11.43	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)
17979.100	42.86	-25.50	46.66	21.70	54.00	11.14	V
17944.450	42.82	-25.50	46.66	21.66	54.00	11.18	V
12355.350	38.82	-31.10	38.94	30.98	54.00	15.18	H
12327.850	38.72	-31.10	38.94	30.88	54.00	15.28	H
11972.000	37.50	-31.48	39.09	29.89	54.00	16.50	V
11970.900	37.07	-31.48	39.09	29.46	54.00	16.93	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)
17848.750	42.92	-25.50	46.66	21.76	54.00	11.08	V
17939.500	42.73	-25.50	46.66	21.57	54.00	11.27	H
12557.200	39.07	-31.05	38.99	31.13	54.00	14.93	H
12644.650	38.76	-31.05	38.99	30.82	54.00	15.24	V
11973.100	38.11	-31.48	39.09	30.50	54.00	15.89	H
11997.300	37.38	-31.48	39.09	29.77	54.00	16.62	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)
17935.100	43.16	-25.50	46.66	22.00	54.00	10.84	V
17954.900	43.13	-25.50	46.66	21.97	54.00	10.87	V
12521.450	38.96	-31.05	38.99	31.02	54.00	15.04	V
12540.150	38.87	-31.05	38.99	30.93	54.00	15.13	V
11973.650	37.70	-31.48	39.09	30.09	54.00	16.30	H
11988.500	37.28	-31.48	39.09	29.67	54.00	16.72	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)
17962.600	42.77	-25.50	46.66	21.61	54.00	11.23	V
17980.200	42.75	-25.50	46.66	21.59	54.00	11.25	H
12360.850	39.17	-31.10	38.94	31.33	54.00	14.83	H
14492.650	38.71	-28.59	42.46	24.84	54.00	15.29	V
11999.500	36.93	-31.48	39.09	29.32	54.00	17.07	V
11987.950	36.81	-31.48	39.09	29.20	54.00	17.19	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)
17954.900	42.93	-25.50	46.66	21.77	54.00	11.07	V
17804.750	42.85	-25.50	46.66	21.69	54.00	11.15	H
10639.900	42.69	-32.76	38.38	37.07	54.00	11.31	H
12523.100	38.77	-31.05	38.99	30.83	54.00	15.23	V
5350.512	44.00	-27.43	34.01	37.42	54.00	10.00	V
5350.480	43.96	-27.43	34.01	37.38	54.00	10.04	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)
17844.900	43.05	-25.50	46.66	21.89	54.00	10.95	V
17947.750	42.82	-25.50	46.66	21.66	54.00	11.18	V
10999.600	42.56	-32.82	38.70	36.68	54.00	11.44	H
11000.150	42.18	-32.82	38.70	36.30	54.00	11.82	H
5442.010	42.17	-27.18	34.17	35.18	54.00	11.83	H
5453.110	42.16	-27.18	34.17	35.17	54.00	11.84	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)
11199.800	43.71	-32.60	38.75	37.57	54.00	10.29	H
17865.800	42.88	-25.50	46.66	21.72	54.00	11.12	H
17955.450	42.80	-25.50	46.66	21.64	54.00	11.20	V
11200.350	39.72	-32.60	38.75	33.58	54.00	14.28	V
12361.950	38.80	-31.10	38.94	30.96	54.00	15.20	H
12559.950	38.59	-31.05	38.99	30.65	54.00	15.41	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)
11400.000	44.77	-32.42	38.79	38.40	54.00	9.23	V
17920.250	43.33	-25.50	46.66	22.17	54.00	10.67	V
17964.800	43.22	-25.50	46.66	22.06	54.00	10.78	H
11399.450	39.81	-32.42	38.79	33.44	54.00	14.19	H
14495.950	39.01	-28.59	42.46	25.14	54.00	14.99	H
12332.250	38.93	-31.10	38.94	31.09	54.00	15.07	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)
17874.050	42.86	-25.50	46.66	21.70	54.00	11.14	V
17957.650	42.75	-25.50	46.66	21.59	54.00	11.25	H
12533.000	38.99	-31.05	38.99	31.05	54.00	15.01	V
12346.000	38.79	-31.10	38.94	30.95	54.00	15.21	V
5146.900	42.66	-27.61	33.67	36.60	54.00	11.34	V
5149.880	42.53	-27.61	33.67	36.47	54.00	11.47	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)
17975.250	42.69	-25.50	46.66	21.53	54.00	11.31	H
17888.350	42.67	-25.50	46.66	21.51	54.00	11.33	H
12535.750	38.75	-31.05	38.99	30.81	54.00	15.25	V
12493.950	38.69	-31.22	38.91	31.00	54.00	15.31	V
11994.550	37.17	-31.48	39.09	29.56	54.00	16.83	H
11698.650	37.06	-31.99	38.98	30.07	54.00	16.94	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)
17907.600	42.86	-25.50	46.66	21.70	54.00	11.14	H
17960.950	42.82	-25.50	46.66	21.66	54.00	11.18	H
12291.550	39.17	-31.10	38.94	31.33	54.00	14.83	V
12511.550	39.04	-31.22	38.91	31.35	54.00	14.96	V
11973.100	37.23	-31.48	39.09	29.62	54.00	16.77	V
11762.450	36.87	-31.99	38.98	29.88	54.00	17.13	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)
17964.250	42.87	-25.50	46.66	21.71	54.00	11.13	V
17934.550	42.68	-25.50	46.66	21.52	54.00	11.32	H
12518.150	39.30	-31.22	38.91	31.61	54.00	14.70	V
12539.600	38.70	-31.05	38.99	30.76	54.00	15.30	H
11969.800	37.24	-31.48	39.09	29.63	54.00	16.76	V
11969.250	36.95	-31.48	39.09	29.34	54.00	17.05	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)
17970.850	42.48	-25.50	46.66	21.32	54.00	11.52	H
17980.200	42.42	-25.50	46.66	21.26	54.00	11.58	H
12543.450	39.27	-31.05	38.99	31.33	54.00	14.73	V
12492.850	38.75	-31.22	38.91	31.06	54.00	15.25	V
11762.450	36.93	-31.99	38.98	29.94	54.00	17.07	H
11854.300	36.91	-31.85	39.05	29.71	54.00	17.09	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)
17945.000	43.05	-25.50	46.66	21.89	54.00	10.95	H
17938.950	42.83	-25.50	46.66	21.67	54.00	11.17	V
10639.900	42.76	-32.76	38.38	37.14	54.00	11.24	H
12334.450	39.23	-31.10	38.94	31.39	54.00	14.77	V
5351.600	43.34	-27.43	34.01	36.76	54.00	10.66	V
5353.072	43.34	-27.43	34.01	36.76	54.00	10.66	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)
11000.150	43.78	-32.82	38.70	37.90	54.00	10.22	H
17937.850	43.27	-25.50	46.66	22.11	54.00	10.73	H
17934.550	43.09	-25.50	46.66	21.93	54.00	10.91	V
10999.600	42.34	-32.82	38.70	36.46	54.00	11.66	V
5459.410	42.39	-27.18	34.17	35.40	54.00	11.61	V
5451.730	42.23	-27.18	34.17	35.24	54.00	11.77	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)
11199.800	43.58	-32.60	38.75	37.44	54.00	10.42	H
17924.100	42.86	-25.50	46.66	21.70	54.00	11.14	V
17945.550	42.77	-25.50	46.66	21.61	54.00	11.23	V
11200.350	40.01	-32.60	38.75	33.87	54.00	13.99	H
12541.250	39.18	-31.05	38.99	31.24	54.00	14.82	V
12562.150	39.11	-31.05	38.99	31.17	54.00	14.89	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)
11400.000	43.87	-32.42	38.79	37.50	54.00	10.13	H
17867.450	42.81	-25.50	46.66	21.65	54.00	11.19	H
17869.650	42.71	-25.50	46.66	21.55	54.00	11.29	V
11399.450	40.57	-32.42	38.79	34.20	54.00	13.43	V
12289.350	38.63	-31.10	38.94	30.79	54.00	15.37	H
12572.050	38.54	-31.05	38.99	30.60	54.00	15.46	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)
17897.150	42.56	-25.50	46.66	21.40	54.00	11.44	H
17949.400	42.54	-25.50	46.66	21.38	54.00	11.46	H
12311.350	39.01	-31.10	38.94	31.17	54.00	14.99	V
12523.650	38.94	-31.05	38.99	31.00	54.00	15.06	H
5149.680	50.41	-27.61	33.67	44.35	54.00	3.59	V
5149.640	50.08	-27.61	33.67	44.02	54.00	3.92	V

## 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)
17941.150	43.20	-25.50	46.66	22.04	54.00	10.80	H
17957.650	42.99	-25.50	46.66	21.83	54.00	11.01	V
12333.350	39.27	-31.10	38.94	31.43	54.00	14.73	V
12313.550	38.70	-31.10	38.94	30.86	54.00	15.30	V
11997.300	37.08	-31.48	39.09	29.47	54.00	16.92	V
11998.950	36.95	-31.48	39.09	29.34	54.00	17.05	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)
17915.300	43.01	-25.50	46.66	21.85	54.00	10.99	H
17930.150	42.60	-25.50	46.66	21.44	54.00	11.40	H
12297.050	38.80	-31.10	38.94	30.96	54.00	15.20	H
12513.200	38.58	-31.22	38.91	30.89	54.00	15.42	H
11759.150	36.88	-31.99	38.98	29.89	54.00	17.12	H
11868.050	36.72	-31.85	39.05	29.52	54.00	17.28	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)
17944.450	42.62	-25.50	46.66	21.46	54.00	11.38	V
17956.000	42.61	-25.50	46.66	21.45	54.00	11.39	V
10620.100	41.23	-32.76	38.38	35.61	54.00	12.77	V
12566.000	39.38	-31.05	38.99	31.44	54.00	14.62	H
5351.376	44.86	-27.43	34.01	38.28	54.00	9.14	V
5350.400	44.82	-27.43	34.01	38.24	54.00	9.18	V

Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
11019.950	43.59	-32.49	38.72	37.35	54.00	10.41	H
17830.050	43.24	-25.50	46.66	22.08	54.00	10.76	H
17935.650	43.12	-25.50	46.66	21.96	54.00	10.88	H
11019.400	39.01	-32.49	38.72	32.77	54.00	14.99	V
5459.785	45.25	-27.18	34.17	38.26	54.00	8.75	V
5459.755	45.08	-27.18	34.17	38.09	54.00	8.92	V

Channel 118

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17957.100	43.48	-25.50	46.66	22.32	54.00	10.52	V
11180.000	43.33	-32.60	38.75	37.19	54.00	10.67	V
17964.250	42.76	-25.50	46.66	21.60	54.00	11.24	V
11179.450	40.84	-32.60	38.75	34.70	54.00	13.16	V
12537.400	38.98	-31.05	38.99	31.04	54.00	15.02	H
12330.600	38.81	-31.10	38.94	30.97	54.00	15.19	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	42.82	-32.42	38.79	36.45	54.00	11.18	V
17861.400	42.73	-25.50	46.66	21.57	54.00	11.27	H
17935.650	42.68	-25.50	46.66	21.52	54.00	11.32	H
11339.500	40.06	-32.42	38.79	33.69	54.00	13.94	V
12340.500	38.86	-31.10	38.94	31.02	54.00	15.14	V
12496.150	38.70	-31.22	38.91	31.01	54.00	15.30	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)
17947.750	43.55	-25.50	46.66	22.39	54.00	10.45	H
17986.250	43.00	-25.50	46.66	21.84	54.00	11.00	V
12341.600	39.14	-31.10	38.94	31.30	54.00	14.86	V
12355.900	39.09	-31.10	38.94	31.25	54.00	14.91	H
5149.200	42.57	-27.61	33.67	36.51	54.00	11.43	V
5148.820	42.47	-27.61	33.67	36.41	54.00	11.53	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)
17938.950	43.07	-25.50	46.66	21.91	54.00	10.93	H
17908.700	42.59	-25.50	46.66	21.43	54.00	11.41	V
12316.300	38.99	-31.10	38.94	31.15	54.00	15.01	H
12349.300	38.97	-31.10	38.94	31.13	54.00	15.03	H
11978.600	37.74	-31.48	39.09	30.13	54.00	16.26	V
11989.050	37.42	-31.48	39.09	29.81	54.00	16.58	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)
17944.450	42.89	-25.50	46.66	21.73	54.00	11.11	H
17970.850	42.83	-25.50	46.66	21.67	54.00	11.17	V
14494.850	38.68	-28.59	42.46	24.81	54.00	15.32	V
12474.150	38.66	-31.22	38.91	30.97	54.00	15.34	V
11998.400	37.06	-31.48	39.09	29.45	54.00	16.94	V
11965.950	37.05	-31.48	39.09	29.44	54.00	16.95	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)
17942.250	43.02	-25.50	46.66	21.86	54.00	10.98	V
17839.400	42.90	-25.50	46.66	21.74	54.00	11.10	H
12539.050	38.81	-31.05	38.99	30.87	54.00	15.19	V
12292.100	38.74	-31.10	38.94	30.90	54.00	15.26	V
11765.200	37.11	-31.99	38.98	30.12	54.00	16.89	V
11983.550	37.03	-31.48	39.09	29.42	54.00	16.97	H

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17951.050	43.06	-25.50	46.66	21.90	54.00	10.94	V
17934.000	42.83	-25.50	46.66	21.67	54.00	11.17	V
12346.000	38.89	-31.10	38.94	31.05	54.00	15.11	V
12537.400	38.81	-31.05	38.99	30.87	54.00	15.19	H
11992.350	36.89	-31.48	39.09	29.28	54.00	17.11	V
11973.650	36.86	-31.48	39.09	29.25	54.00	17.14	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	43.25	-32.76	38.38	37.63	54.00	10.75	V
17916.950	42.99	-25.50	46.66	21.83	54.00	11.01	H
17992.300	42.68	-25.50	46.66	21.52	54.00	11.32	H
12313.550	39.03	-31.10	38.94	31.19	54.00	14.97	V
5360.576	49.41	-27.43	34.01	42.83	54.00	4.59	V
5360.432	49.02	-27.43	34.01	42.44	54.00	4.98	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)
11000.150	43.57	-32.82	38.70	37.69	54.00	10.43	H
17970.850	43.05	-25.50	46.66	21.89	54.00	10.95	H
17874.050	42.72	-25.50	46.66	21.56	54.00	11.28	V
10999.600	42.71	-32.82	38.70	36.83	54.00	11.29	H
5449.615	41.88	-27.18	34.17	34.89	54.00	12.12	V
5457.970	41.62	-27.18	34.17	34.63	54.00	12.38	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)
11199.800	43.61	-32.60	38.75	37.47	54.00	10.39	V
17937.300	42.64	-25.50	46.66	21.48	54.00	11.36	H
17979.100	42.64	-25.50	46.66	21.48	54.00	11.36	H
11200.350	39.24	-32.60	38.75	33.10	54.00	14.76	V
12359.200	38.86	-31.10	38.94	31.02	54.00	15.14	H
14495.400	38.67	-28.59	42.46	24.80	54.00	15.33	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)
11400.000	44.36	-32.42	38.79	37.99	54.00	9.64	V
17857.550	43.13	-25.50	46.66	21.97	54.00	10.87	H
17871.300	42.65	-25.50	46.66	21.49	54.00	11.35	V
11399.450	40.34	-32.42	38.79	33.97	54.00	13.66	V
12346.000	38.95	-31.10	38.94	31.11	54.00	15.05	V
12358.100	38.92	-31.10	38.94	31.08	54.00	15.08	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)
17929.050	42.76	-25.50	46.66	21.60	54.00	11.24	V
17960.950	42.60	-25.50	46.66	21.44	54.00	11.40	H
12324.000	39.04	-31.10	38.94	31.20	54.00	14.96	V
12293.750	38.88	-31.10	38.94	31.04	54.00	15.12	H
5150.000	50.12	-27.61	33.67	44.06	54.00	3.88	V
5149.880	50.11	-27.61	33.67	44.05	54.00	3.89	V

## Channel 46

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17936.750	43.03	-25.50	46.66	21.87	54.00	10.97	H
17906.500	42.58	-25.50	46.66	21.42	54.00	11.42	V
12540.700	38.83	-31.05	38.99	30.89	54.00	15.17	H
12569.850	38.83	-31.05	38.99	30.89	54.00	15.17	H
11981.350	37.19	-31.48	39.09	29.58	54.00	16.81	V
11979.700	36.97	-31.48	39.09	29.36	54.00	17.03	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)
17839.400	42.76	-25.50	46.66	21.60	54.00	11.24	H
17952.700	42.75	-25.50	46.66	21.59	54.00	11.25	V
12518.700	39.18	-31.22	38.91	31.49	54.00	14.82	H
12563.250	38.81	-31.05	38.99	30.87	54.00	15.19	H
11997.300	37.35	-31.48	39.09	29.74	54.00	16.65	V
11850.450	37.24	-31.85	39.05	30.04	54.00	16.76	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)
17941.150	43.00	-25.50	46.66	21.84	54.00	11.00	V
17948.300	42.86	-25.50	46.66	21.70	54.00	11.14	H
10620.100	42.63	-32.76	38.38	37.01	54.00	11.37	V
10619.550	39.12	-32.76	38.38	33.50	54.00	14.88	V
5430.048	47.58	-27.18	34.17	40.59	54.00	6.42	V
5354.064	46.25	-27.43	34.01	39.67	54.00	7.75	V

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
11019.950	43.62	-32.49	38.72	37.38	54.00	10.38	V
17951.600	43.24	-25.50	46.66	22.08	54.00	10.76	V
17929.050	43.07	-25.50	46.66	21.91	54.00	10.93	H
11019.400	39.87	-32.49	38.72	33.63	54.00	14.13	V
5459.740	45.75	-27.18	34.17	38.76	54.00	8.25	V
5459.785	45.22	-27.18	34.17	38.23	54.00	8.78	V



**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)
17934.550	43.59	-25.50	46.66	22.43	54.00	10.41	V
11180.000	43.53	-32.60	38.75	37.39	54.00	10.47	H
17930.700	43.09	-25.50	46.66	21.93	54.00	10.91	H
11179.450	40.52	-32.60	38.75	34.38	54.00	13.48	V
12535.750	39.27	-31.05	38.99	31.33	54.00	14.73	V
12518.700	39.16	-31.22	38.91	31.47	54.00	14.84	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	43.39	-32.42	38.79	37.02	54.00	10.61	V
17944.450	42.92	-25.50	46.66	21.76	54.00	11.08	V
17964.250	42.72	-25.50	46.66	21.56	54.00	11.28	V
11339.500	39.58	-32.42	38.79	33.21	54.00	14.42	V
12548.400	38.79	-31.05	38.99	30.85	54.00	15.21	H
12537.400	38.78	-31.05	38.99	30.84	54.00	15.22	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)
17898.250	42.73	-25.50	46.66	21.57	54.00	11.27	H
17949.400	42.57	-25.50	46.66	21.41	54.00	11.43	V
12540.700	38.92	-31.05	38.99	30.98	54.00	15.08	V
12566.000	38.71	-31.05	38.99	30.77	54.00	15.29	H
5144.920	51.05	-27.61	33.67	44.99	54.00	2.95	V
5144.620	50.78	-27.61	33.67	44.72	54.00	3.22	V

## 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)
17937.850	42.96	-25.50	46.66	21.80	54.00	11.04	V
17980.750	42.76	-25.50	46.66	21.60	54.00	11.24	H
12306.950	39.21	-31.10	38.94	31.37	54.00	14.79	V
12369.100	38.70	-31.10	38.94	30.86	54.00	15.30	H
5383.632	49.33	-27.36	34.09	42.61	54.00	4.67	V
5368.208	48.99	-27.43	34.01	42.41	54.00	5.01	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)
17937.850	42.89	-25.50	46.66	21.73	54.00	11.11	H
17849.300	42.80	-25.50	46.66	21.64	54.00	11.20	H
11060.100	42.71	-32.49	38.72	36.47	54.00	11.29	V
11059.550	40.94	-32.49	38.72	34.70	54.00	13.06	H
5458.780	51.20	-27.18	34.17	44.21	54.00	2.80	V
5455.705	50.76	-27.18	34.17	43.77	54.00	3.24	V

## 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)
17920.250	42.79	-25.50	46.66	21.63	54.00	11.21	V
17841.600	42.69	-25.50	46.66	21.53	54.00	11.31	V
11220.150	42.11	-32.60	38.75	35.97	54.00	11.89	V
11219.600	41.40	-32.60	38.75	35.26	54.00	12.60	H
12493.950	38.79	-31.22	38.91	31.10	54.00	15.21	V
12567.100	38.75	-31.05	38.99	30.81	54.00	15.25	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)
17844.350	52.26	-25.50	46.66	31.10	74.00	21.74	H
17877.900	52.14	-25.50	46.66	30.98	74.00	21.86	H
12563.250	49.28	-31.05	38.99	41.34	74.00	24.72	H
14514.650	48.89	-28.59	42.46	35.02	68.20	19.31	V
5138.700	58.95	-27.61	33.67	52.89	74.00	15.05	V
5144.160	55.29	-27.61	33.67	49.23	74.00	18.71	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)
17948.850	52.08	-25.50	46.66	30.92	74.00	21.92	H
17966.450	51.85	-25.50	46.66	30.69	74.00	22.15	H
12492.300	48.86	-31.22	38.91	41.17	74.00	25.14	V
12547.850	48.83	-31.05	38.99	40.89	74.00	25.17	H
11972.550	46.91	-31.48	39.09	39.30	74.00	27.09	H
11895.000	46.62	-31.85	39.05	39.42	74.00	27.38	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)
17881.750	52.20	-25.50	46.66	31.04	74.00	21.80	H
17942.250	52.18	-25.50	46.66	31.02	74.00	21.82	V
12351.500	49.89	-31.10	38.94	42.05	74.00	24.11	H
12982.900	48.53	-30.49	39.24	39.78	68.20	19.67	V
11821.300	46.72	-31.85	39.05	39.52	74.00	27.28	V
11961.000	46.71	-31.48	39.09	39.10	74.00	27.29	H

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17864.700	52.97	-25.50	46.66	31.81	74.00	21.03	V
17946.650	52.38	-25.50	46.66	31.22	74.00	21.62	H
14918.900	48.97	-28.59	40.79	36.77	68.20	19.23	V
14493.200	48.68	-28.59	42.46	34.81	74.00	25.32	V
11385.150	46.49	-32.42	38.79	40.12	74.00	27.51	H
11975.300	46.39	-31.48	39.09	38.78	74.00	27.61	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)
16981.950	52.26	-26.32	42.36	36.21	68.20	15.94	H
17100.200	52.24	-26.60	43.36	35.48	68.20	15.96	H
14529.500	48.77	-28.59	42.46	34.90	68.20	19.43	V
12295.950	48.56	-31.10	38.94	40.72	74.00	25.44	V
11840.550	47.01	-31.85	39.05	39.81	74.00	26.99	V
11842.200	46.95	-31.85	39.05	39.75	74.00	27.05	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)
17953.250	51.87	-25.50	46.66	30.71	74.00	22.13	H
16846.650	51.83	-26.62	41.49	36.96	68.20	16.37	V
14979.950	48.81	-27.85	40.21	36.45	68.20	19.39	V
14495.950	48.50	-28.59	42.46	34.63	74.00	25.50	H
5359.648	64.73	-27.43	34.01	58.15	74.00	9.27	V
5352.880	58.83	-27.43	34.01	52.25	74.00	15.17	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)
17959.300	52.18	-25.50	46.66	31.02	74.00	21.82	V
17979.650	51.89	-25.50	46.66	30.73	74.00	22.11	V
14783.600	48.33	-28.32	41.35	35.31	68.20	19.87	H
14977.200	48.25	-27.85	40.21	35.89	68.20	19.95	H
5459.515	65.34	-27.18	34.17	58.35	74.00	8.66	H
5468.425	56.88	-27.18	34.17	49.89	68.20	11.32	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)
17962.600	52.30	-25.50	46.66	31.14	74.00	21.70	H
17925.200	52.15	-25.50	46.66	30.99	74.00	21.85	V
12398.800	48.82	-31.22	38.91	41.13	74.00	25.18	H
14838.050	48.75	-28.59	40.79	36.55	68.20	19.45	H
11199.800	47.03	-32.60	38.75	40.89	74.00	26.97	H
11990.150	46.33	-31.48	39.09	38.72	74.00	27.67	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)
17997.800	52.35	-25.50	46.66	31.19	74.00	21.65	H
16533.700	51.79	-26.96	39.82	38.93	68.20	16.41	H
14834.750	48.77	-28.59	40.79	36.57	68.20	19.43	V
14795.150	48.66	-28.32	41.35	35.64	68.20	19.54	H
5727.070	65.00	-27.07	34.31	57.76	68.20	3.20	V
5725.110	64.51	-27.07	34.31	57.27	68.20	3.69	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)
17883.950	52.46	-25.50	46.66	31.30	74.00	21.54	H
17870.750	52.12	-25.50	46.66	30.96	74.00	21.88	H
12355.350	49.60	-31.10	38.94	41.76	74.00	24.40	V
14779.750	48.48	-28.32	41.35	35.46	68.20	19.72	H
5140.320	63.72	-27.61	33.67	57.66	74.00	10.28	V
5131.420	61.35	-27.61	33.67	55.29	74.00	12.65	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)
17839.400	52.06	-25.50	46.66	30.90	74.00	21.94	H
17956.000	52.03	-25.50	46.66	30.87	74.00	21.97	V
14808.900	49.01	-28.32	41.35	35.99	68.20	19.19	V
14874.900	48.86	-28.59	40.79	36.66	68.20	19.34	V
11974.750	46.48	-31.48	39.09	38.87	74.00	27.52	H
11745.400	46.47	-31.99	38.98	39.48	74.00	27.53	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)
17975.250	52.51	-25.50	46.66	31.35	74.00	21.49	H
17939.500	52.39	-25.50	46.66	31.23	74.00	21.61	V
12338.300	48.30	-31.10	38.94	40.46	74.00	25.70	V
12881.700	48.30	-30.69	39.14	39.85	68.20	19.90	V
11801.500	46.66	-31.85	39.05	39.46	74.00	27.34	H
11975.300	46.37	-31.48	39.09	38.76	74.00	27.63	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)
17925.750	52.55	-25.50	46.66	31.39	74.00	21.45	H
17863.050	52.18	-25.50	46.66	31.02	74.00	21.82	H
14481.650	49.12	-28.59	42.46	35.25	74.00	24.88	V
14746.750	48.54	-28.32	41.35	35.52	68.20	19.66	V
10520.000	46.56	-32.99	38.27	41.27	68.20	21.64	H
11990.150	46.17	-31.48	39.09	38.56	74.00	27.83	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)
17948.300	52.32	-25.50	46.66	31.16	74.00	21.68	V
17861.400	52.14	-25.50	46.66	30.98	74.00	21.86	H
14998.650	48.49	-27.85	40.21	36.13	68.20	19.71	V
14847.400	48.48	-28.59	40.79	36.28	68.20	19.72	H
10560.150	46.93	-32.99	38.27	41.64	68.20	21.27	V
10559.600	46.89	-32.99	38.27	41.60	68.20	21.31	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)
17962.050	52.63	-25.50	46.66	31.47	74.00	21.37	H
17885.050	52.18	-25.50	46.66	31.02	74.00	21.82	H
14535.000	49.02	-28.59	42.46	35.15	68.20	19.18	V
14778.100	48.29	-28.32	41.35	35.27	68.20	19.91	H
5364.096	64.12	-27.43	34.01	57.54	74.00	9.88	V
5359.856	63.86	-27.43	34.01	57.28	74.00	10.14	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)
17989.000	53.46	-25.50	46.66	32.30	74.00	20.54	H
17984.050	52.66	-25.50	46.66	31.50	74.00	21.34	H
14996.450	49.32	-27.85	40.21	36.96	68.20	18.88	V
14839.700	48.86	-28.59	40.79	36.66	68.20	19.34	V
5459.470	60.80	-27.18	34.17	53.81	74.00	13.20	V
5460.100	67.10	-27.18	34.17	60.11	68.20	1.10	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)
17932.900	52.19	-25.50	46.66	31.03	74.00	21.81	V
17882.850	52.18	-25.50	46.66	31.02	74.00	21.82	H
14764.900	49.02	-28.32	41.35	36.00	68.20	19.18	H
14499.800	48.66	-28.59	42.46	34.79	74.00	25.34	H
11199.800	47.50	-32.60	38.75	41.36	74.00	26.50	H
11750.350	46.83	-31.99	38.98	39.84	74.00	27.17	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)
16923.100	52.28	-26.32	42.36	36.23	68.20	15.92	H
17947.750	52.07	-25.50	46.66	30.91	74.00	21.93	H
14999.750	49.18	-27.85	40.21	36.82	68.20	19.02	H
12399.350	48.80	-31.22	38.91	41.11	74.00	25.20	H
5725.005	66.40	-27.07	34.31	59.16	68.20	1.80	V
5725.198	64.64	-27.07	34.31	57.40	68.20	3.56	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)
17826.200	52.38	-25.50	46.66	31.22	74.00	21.62	V
17843.250	52.24	-25.50	46.66	31.08	74.00	21.76	H
14978.300	48.80	-27.85	40.21	36.44	68.20	19.40	V
12589.650	48.71	-31.05	38.99	40.77	74.00	25.29	V
5147.260	63.89	-27.61	33.67	57.83	74.00	10.11	V
5147.400	63.10	-27.61	33.67	57.04	74.00	10.90	V

## 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)
17638.100	52.15	-25.74	45.95	31.94	68.20	16.05	H
17905.950	51.98	-25.50	46.66	30.82	74.00	22.02	V
12853.650	48.48	-30.69	39.14	40.03	68.20	19.72	V
12491.200	48.35	-31.22	38.91	40.66	74.00	25.65	V
11740.450	46.79	-31.99	38.98	39.80	74.00	27.21	V
11877.400	46.48	-31.85	39.05	39.28	74.00	27.52	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)
17842.700	52.70	-25.50	46.66	31.54	74.00	21.30	H
17911.450	52.55	-25.50	46.66	31.39	74.00	21.45	H
14743.450	48.26	-28.32	41.35	35.24	68.20	19.94	H
12530.250	48.25	-31.05	38.99	40.31	74.00	25.75	V
10539.800	47.24	-32.99	38.27	41.95	68.20	20.96	V
11966.500	46.27	-31.48	39.09	38.66	74.00	27.73	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)
17829.500	52.18	-25.50	46.66	31.02	74.00	21.82	V
15890.200	51.90	-26.97	38.48	40.39	74.00	22.10	V
12553.350	48.30	-31.05	38.99	40.36	74.00	25.70	H
14532.250	48.13	-28.59	42.46	34.26	68.20	20.07	V
5358.912	55.94	-27.43	34.01	49.36	74.00	18.06	V
5350.720	55.81	-27.43	34.01	49.23	74.00	18.19	V

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17721.700	52.47	-25.74	45.95	32.26	74.00	21.53	H
17842.150	52.19	-25.50	46.66	31.03	74.00	21.81	H
14867.200	48.58	-28.59	40.79	36.38	68.20	19.62	H
12361.400	48.26	-31.10	38.94	40.42	74.00	25.74	V
5441.875	58.22	-27.18	34.17	51.23	74.00	15.78	V
5469.535	66.19	-27.18	34.17	59.20	68.20	2.01	V

## 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)
17888.350	52.60	-25.50	46.66	31.44	74.00	21.40	V
17981.850	51.79	-25.50	46.66	30.63	74.00	22.21	H
14789.650	49.63	-28.32	41.35	36.61	68.20	18.57	H
14852.900	49.46	-28.59	40.79	37.26	68.20	18.74	H
11179.450	46.99	-32.60	38.75	40.85	74.00	27.01	V
11180.000	46.83	-32.60	38.75	40.69	74.00	27.17	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)
17794.850	52.44	-25.50	46.66	31.28	74.00	21.56	H
16501.250	52.33	-26.96	39.82	39.47	68.20	15.87	V
14829.250	48.73	-28.59	40.79	36.53	68.20	19.47	V
14876.000	48.65	-28.59	40.79	36.45	68.20	19.55	V
5737.745	55.91	-27.07	34.31	48.67	68.20	12.29	V
5735.488	55.58	-27.07	34.31	48.34	68.20	12.62	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)
17868.000	52.12	-25.50	46.66	30.96	74.00	21.88	V
17936.750	52.10	-25.50	46.66	30.94	74.00	21.90	H
12489.000	48.79	-31.22	38.91	41.10	74.00	25.21	H
14995.900	48.61	-27.85	40.21	36.25	68.20	19.59	V
5139.640	61.91	-27.61	33.67	55.85	74.00	12.09	V
5127.060	57.51	-27.61	33.67	51.45	74.00	16.49	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)
17936.750	52.36	-25.50	46.66	31.20	74.00	21.64	H
17112.300	52.13	-26.60	43.36	35.37	68.20	16.07	V
12338.850	49.29	-31.10	38.94	41.45	74.00	24.71	V
14604.300	48.85	-27.29	41.90	34.24	68.20	19.35	H
11972.000	47.61	-31.48	39.09	40.00	74.00	26.39	H
11999.500	46.59	-31.48	39.09	38.98	74.00	27.41	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)
17925.750	52.47	-25.50	46.66	31.31	74.00	21.53	H
17111.750	52.43	-26.60	43.36	35.67	68.20	15.77	V
14737.950	48.86	-28.32	41.35	35.84	68.20	19.34	V
12562.700	48.34	-31.05	38.99	40.40	74.00	25.66	V
11912.600	47.35	-31.85	39.05	40.15	74.00	26.65	V
11972.000	46.97	-31.48	39.09	39.36	74.00	27.03	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)
17832.250	52.14	-25.50	46.66	30.98	74.00	21.86	V
17938.950	51.91	-25.50	46.66	30.75	74.00	22.09	H
14538.850	49.32	-27.29	41.90	34.71	68.20	18.88	H
12379.000	48.66	-31.10	38.94	40.82	74.00	25.34	H
11986.300	47.08	-31.48	39.09	39.47	74.00	26.92	H
10520.000	46.89	-32.99	38.27	41.60	68.20	21.31	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)
17913.650	52.49	-25.50	46.66	31.33	74.00	21.51	V
16146.500	51.96	-26.77	38.93	39.80	74.00	22.04	V
13042.300	48.98	-30.13	39.39	39.71	68.20	19.22	V
14553.700	48.86	-27.29	41.90	34.25	68.20	19.34	H
10560.150	46.83	-32.99	38.27	41.54	68.20	21.37	V
11906.550	46.08	-31.85	39.05	38.88	74.00	27.92	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)
17905.400	52.64	-25.50	46.66	31.48	74.00	21.36	H
17981.300	52.58	-25.50	46.66	31.42	74.00	21.42	H
14834.750	49.24	-28.59	40.79	37.04	68.20	18.96	V
14679.100	48.73	-27.29	41.90	34.12	68.20	19.47	V
5360.368	68.42	-27.43	34.01	61.84	74.00	5.58	V
5360.720	68.13	-27.43	34.01	61.55	74.00	5.87	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)
17899.900	52.26	-25.50	46.66	31.10	74.00	21.74	V
17869.100	52.02	-25.50	46.66	30.86	74.00	21.98	V
14869.400	49.30	-28.59	40.79	37.10	68.20	18.90	H
14767.100	49.04	-28.32	41.35	36.02	68.20	19.16	V
5458.435	58.66	-27.18	34.17	51.67	74.00	15.34	V
5469.130	54.99	-27.18	34.17	48.00	68.20	13.21	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)
17886.700	52.79	-25.50	46.66	31.63	74.00	21.21	V
17863.050	52.49	-25.50	46.66	31.33	74.00	21.51	H
14751.700	49.28	-28.32	41.35	36.26	68.20	18.92	H
14488.250	48.98	-28.59	42.46	35.11	74.00	25.02	H
11199.800	47.26	-32.60	38.75	41.12	74.00	26.74	H
11879.600	46.67	-31.85	39.05	39.47	74.00	27.33	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)
17975.250	51.84	-25.50	46.66	30.68	74.00	22.16	H
17023.750	51.82	-26.32	42.36	35.77	68.20	16.38	V
12304.750	48.43	-31.10	38.94	40.59	74.00	25.57	H
14909.000	48.38	-28.59	40.79	36.18	68.20	19.82	H
5725.075	64.94	-27.07	34.31	57.70	68.20	3.26	V
5725.005	64.65	-27.07	34.31	57.41	68.20	3.55	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)
17914.750	53.25	-25.50	46.66	32.09	74.00	20.75	V
17866.350	52.16	-25.50	46.66	31.00	74.00	21.84	V
14971.150	48.59	-28.59	40.79	36.39	68.20	19.61	H
12826.700	48.41	-30.69	39.14	39.96	68.20	19.79	V
5147.220	63.18	-27.61	33.67	57.12	74.00	10.82	V
5147.340	62.80	-27.61	33.67	56.74	74.00	11.20	V

**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)
17880.650	52.20	-25.50	46.66	31.04	74.00	21.80	H
17946.650	52.12	-25.50	46.66	30.96	74.00	21.88	H
12351.500	49.31	-31.10	38.94	41.47	74.00	24.69	H
12490.650	48.48	-31.22	38.91	40.79	74.00	25.52	V
11972.000	47.02	-31.48	39.09	39.41	74.00	26.98	V
11991.250	46.66	-31.48	39.09	39.05	74.00	27.34	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)
17931.250	52.52	-25.50	46.66	31.36	74.00	21.48	H
17855.350	52.26	-25.50	46.66	31.10	74.00	21.74	V
14861.700	48.85	-28.59	40.79	36.65	68.20	19.35	H
14790.200	48.64	-28.32	41.35	35.62	68.20	19.56	V
11997.850	47.31	-31.48	39.09	39.70	74.00	26.69	V
11763.000	46.88	-31.99	38.98	39.89	74.00	27.12	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)
17891.650	51.95	-25.50	46.66	30.79	74.00	22.05	V
16943.450	51.80	-26.32	42.36	35.75	68.20	16.40	V
14958.500	49.21	-28.59	40.79	37.01	68.20	18.99	V
14523.450	48.62	-28.59	42.46	34.75	68.20	19.58	V
5362.960	63.87	-27.43	34.01	57.29	74.00	10.13	V
5430.048	59.13	-27.18	34.17	52.14	74.00	14.87	V

## Channel 102

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17962.600	52.71	-25.50	46.66	31.55	74.00	21.29	V
17830.050	52.52	-25.50	46.66	31.36	74.00	21.48	H
12370.750	49.21	-31.10	38.94	41.37	74.00	24.79	V
12527.500	48.61	-31.05	38.99	40.67	74.00	25.39	H
5458.615	58.73	-27.18	34.17	51.74	74.00	15.27	V
5467.855	64.74	-27.18	34.17	57.75	68.20	3.46	V

## 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)
17963.150	52.75	-25.50	46.66	31.59	74.00	21.25	V
17864.150	51.86	-25.50	46.66	30.70	74.00	22.14	H
14758.850	49.88	-28.32	41.35	36.86	68.20	18.32	H
14901.850	48.81	-28.59	40.79	36.61	68.20	19.39	H
11180.000	46.73	-32.60	38.75	40.59	74.00	27.27	V
11889.500	46.37	-31.85	39.05	39.17	74.00	27.63	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)
17168.400	52.00	-26.60	43.36	35.24	68.20	16.20	H
17901.550	51.98	-25.50	46.66	30.82	74.00	22.02	H
14778.650	49.14	-28.32	41.35	36.12	68.20	19.06	V
12883.900	48.63	-30.69	39.14	40.18	68.20	19.57	V
5749.802	57.56	-27.07	34.31	50.32	68.20	10.64	V
5726.422	55.77	-27.07	34.31	48.53	68.20	12.43	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)
17909.250	52.35	-25.50	46.66	31.19	74.00	21.65	H
17964.800	51.88	-25.50	46.66	30.72	74.00	22.12	V
14858.950	49.87	-28.59	40.79	37.67	68.20	18.33	H
14841.900	48.88	-28.59	40.79	36.68	68.20	19.32	V
5145.220	62.05	-27.61	33.67	55.99	74.00	11.95	V
5148.920	61.94	-27.61	33.67	55.88	74.00	12.06	V



## 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)
17859.200	52.43	-25.50	46.66	31.27	74.00	21.57	H
17871.850	52.05	-25.50	46.66	30.89	74.00	21.95	V
14999.750	48.76	-27.85	40.21	36.40	68.20	19.44	H
14800.650	48.40	-28.32	41.35	35.38	68.20	19.80	V
5368.624	59.83	-27.43	34.01	53.25	74.00	14.17	V
5375.984	59.37	-27.36	34.09	52.65	74.00	14.63	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)
17935.100	52.78	-25.50	46.66	31.62	74.00	21.22	V
17947.200	52.47	-25.50	46.66	31.31	74.00	21.53	V
14984.900	49.07	-27.85	40.21	36.71	68.20	19.13	V
14861.150	48.98	-28.59	40.79	36.78	68.20	19.22	V
5455.720	60.96	-27.18	34.17	53.97	74.00	13.04	V
5468.245	62.39	-27.18	34.17	55.40	68.20	5.81	V

## 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)
17943.900	52.33	-25.50	46.66	31.17	74.00	21.67	H
17336.150	52.31	-25.95	44.35	33.90	68.20	15.89	H
14740.150	49.05	-28.32	41.35	36.03	68.20	19.15	H
12531.350	48.85	-31.05	38.99	40.91	74.00	25.15	V
5729.642	56.46	-27.07	34.31	49.22	68.20	11.74	V
5729.625	56.40	-27.07	34.31	49.16	68.20	11.80	V

### 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)

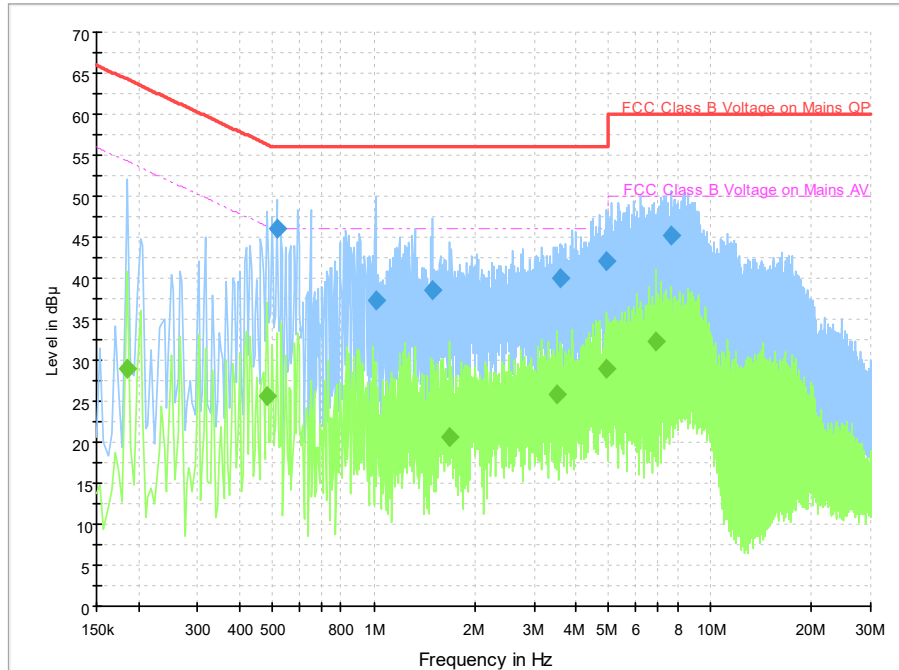
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.58	Fig.59	<b>P</b>
0.5 to 5	46			
5 to 30	50			

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**

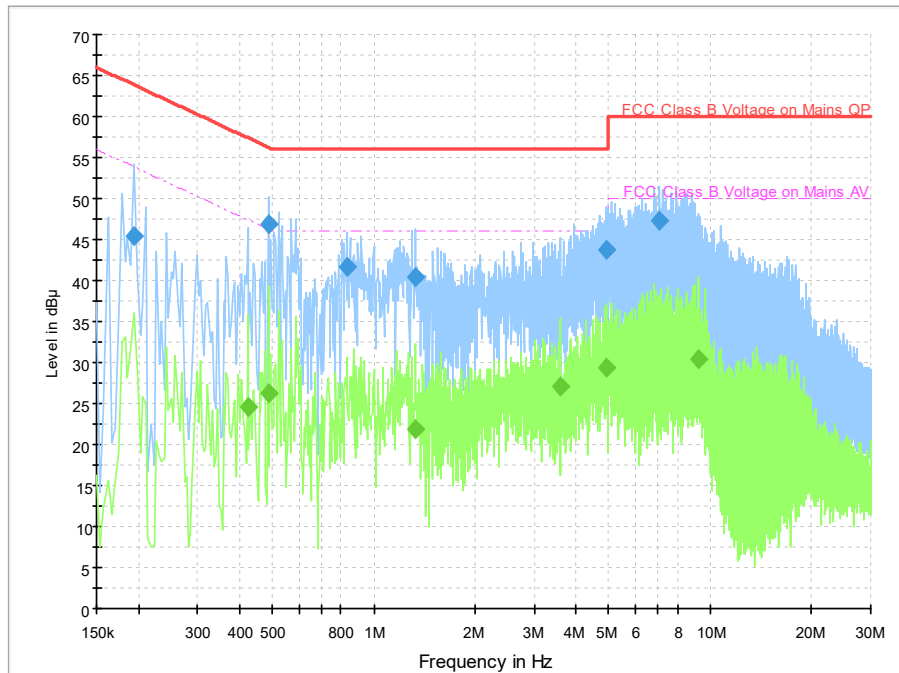
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.514000	46.1	5000.0	9.000	On	L1	19.7	9.9	56.0
1.014000	37.3	5000.0	9.000	On	L1	19.8	18.7	56.0
1.498000	38.6	5000.0	9.000	On	L1	19.7	17.4	56.0
3.582000	39.9	5000.0	9.000	On	L1	19.6	16.1	56.0
4.918000	42.1	5000.0	9.000	On	L1	19.6	13.9	56.0
7.686000	45.2	5000.0	9.000	On	L1	19.8	14.8	60.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.186000	29.0	5000.0	9.000	On	L1	19.8	25.2	54.2
0.482000	25.6	5000.0	9.000	On	L1	19.8	20.7	46.3
1.674000	20.7	5000.0	9.000	On	L1	19.7	25.3	46.0
3.510000	25.8	5000.0	9.000	On	L1	19.6	20.2	46.0
4.934000	28.9	5000.0	9.000	On	L1	19.6	17.1	46.0
6.902000	32.3	5000.0	9.000	On	L1	19.8	17.7	50.0

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

Idle:



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

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.194000	45.3	5000.0	9.000	On	L1	19.8	18.5	63.9
0.486000	46.8	5000.0	9.000	On	L1	19.8	9.5	56.2
0.834000	41.7	5000.0	9.000	On	L1	19.7	14.3	56.0
1.330000	40.3	5000.0	9.000	On	L1	19.7	15.7	56.0
4.934000	43.7	5000.0	9.000	On	L1	19.6	12.3	56.0
7.042000	47.2	5000.0	9.000	On	L1	19.8	12.8	60.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dB $\mu$ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB $\mu$ V)
0.422000	24.5	5000.0	9.000	On	L1	19.7	22.9	47.4
0.486000	26.2	5000.0	9.000	On	L1	19.8	20.1	46.2
1.330000	21.9	5000.0	9.000	On	L1	19.7	24.1	46.0
3.586000	27.0	5000.0	9.000	On	L1	19.6	19.0	46.0
4.934000	29.4	5000.0	9.000	On	L1	19.6	16.6	46.0
9.206000	30.4	5000.0	9.000	On	L1	19.6	19.6	50.0

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

### A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

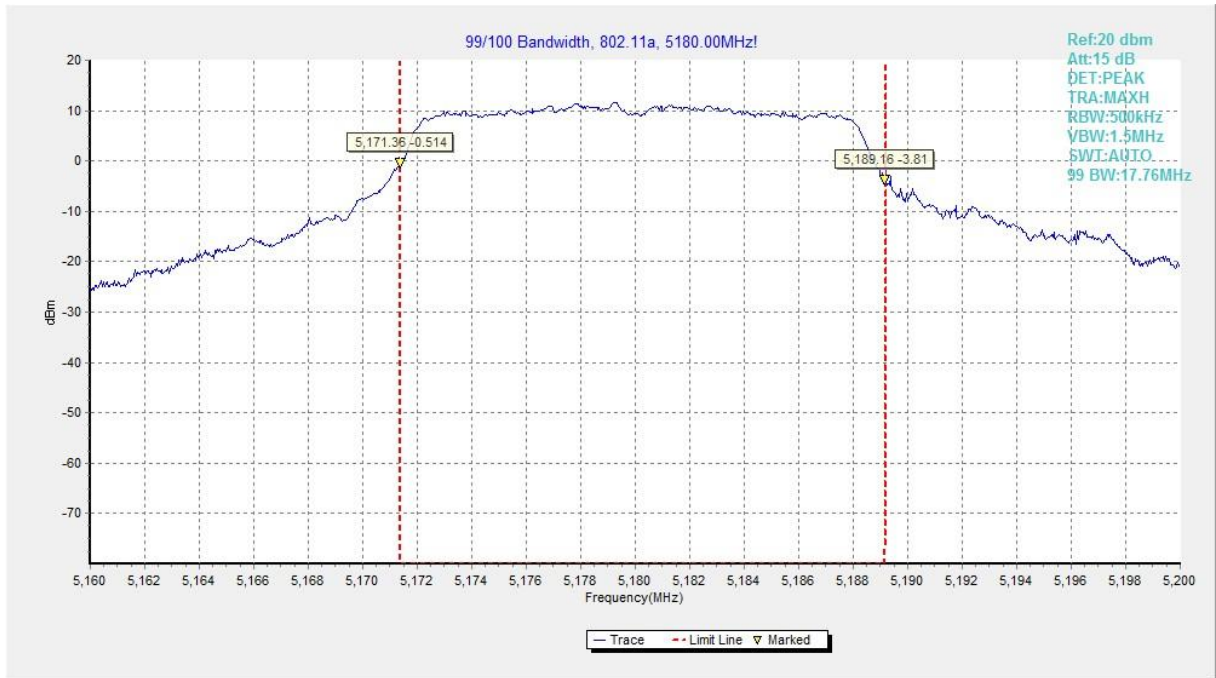
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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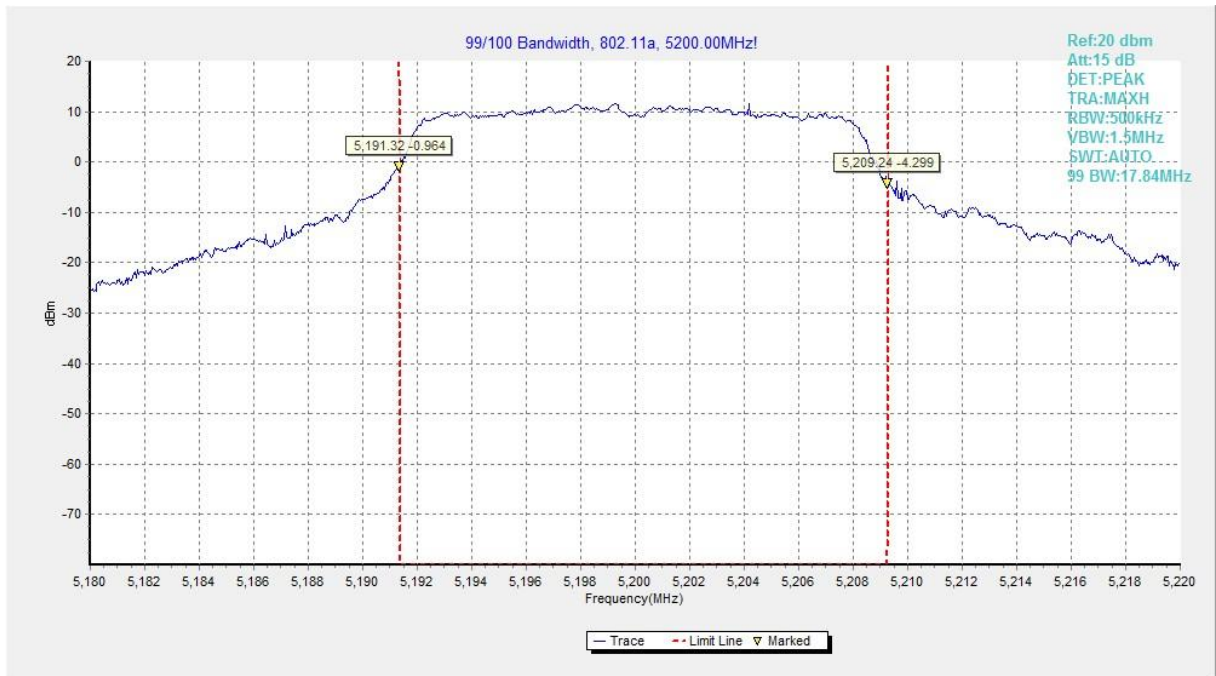
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
		Lower	Upper	
802.11a	5180 MHz	Fig.60	17.76	P
	5200 MHz	Fig.61	17.84	P
	5240 MHz	Fig.62	18.16	P
802.11n HT20	5180 MHz	Fig.63	18.40	P
	5200 MHz	Fig.64	18.40	P
	5240 MHz	Fig.65	18.44	P
802.11ac HT40	5190 MHz	Fig.66	36.32	P
	5230 MHz	Fig.67	36.40	P
802.11ac HT80	5210 MHz	Fig.68	75.84	P

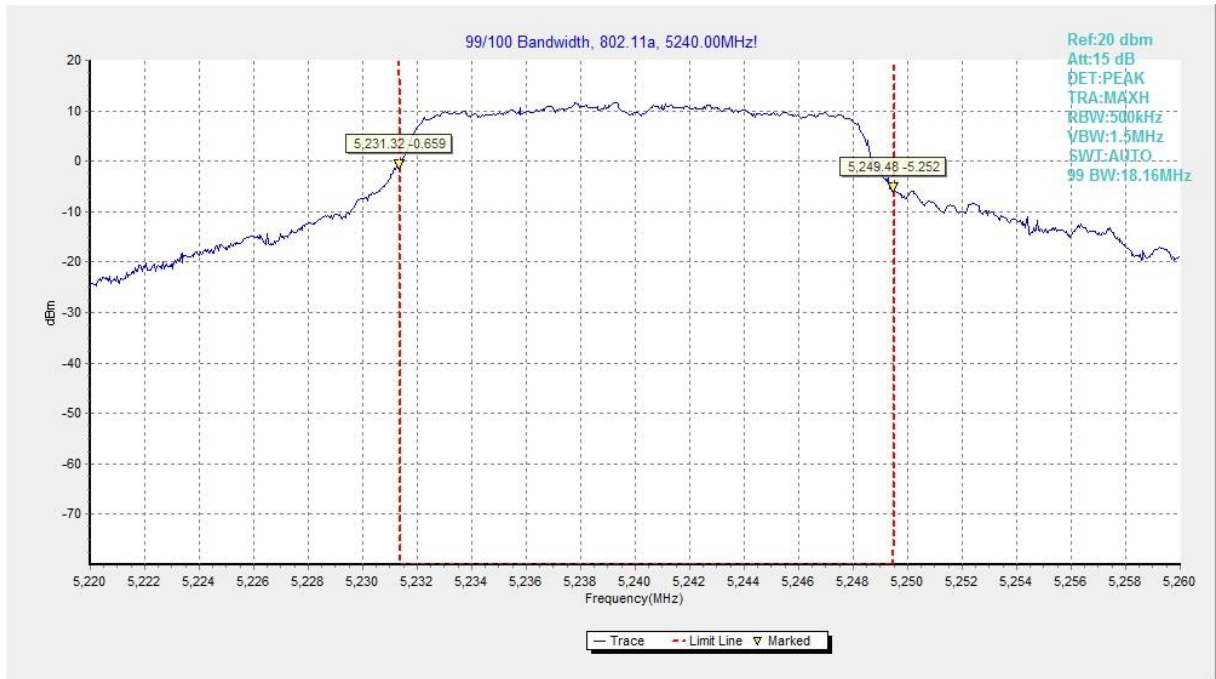
**Conclusion: PASS**  
**Test graphs as below:**



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



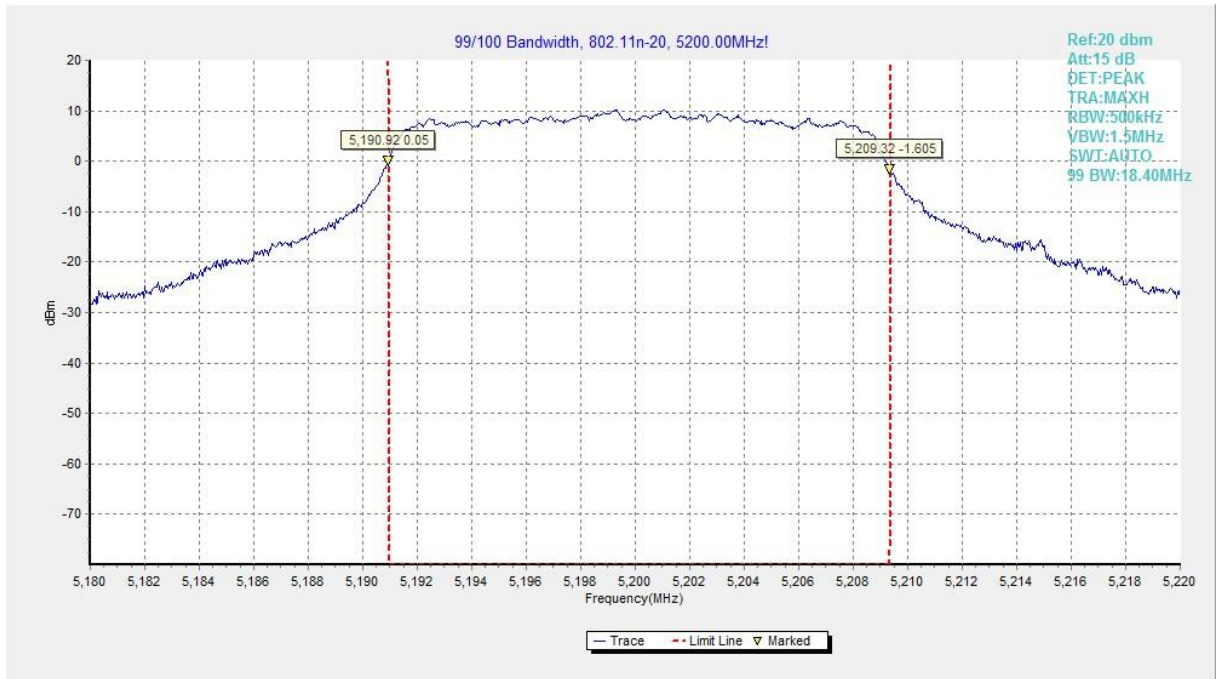
**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**



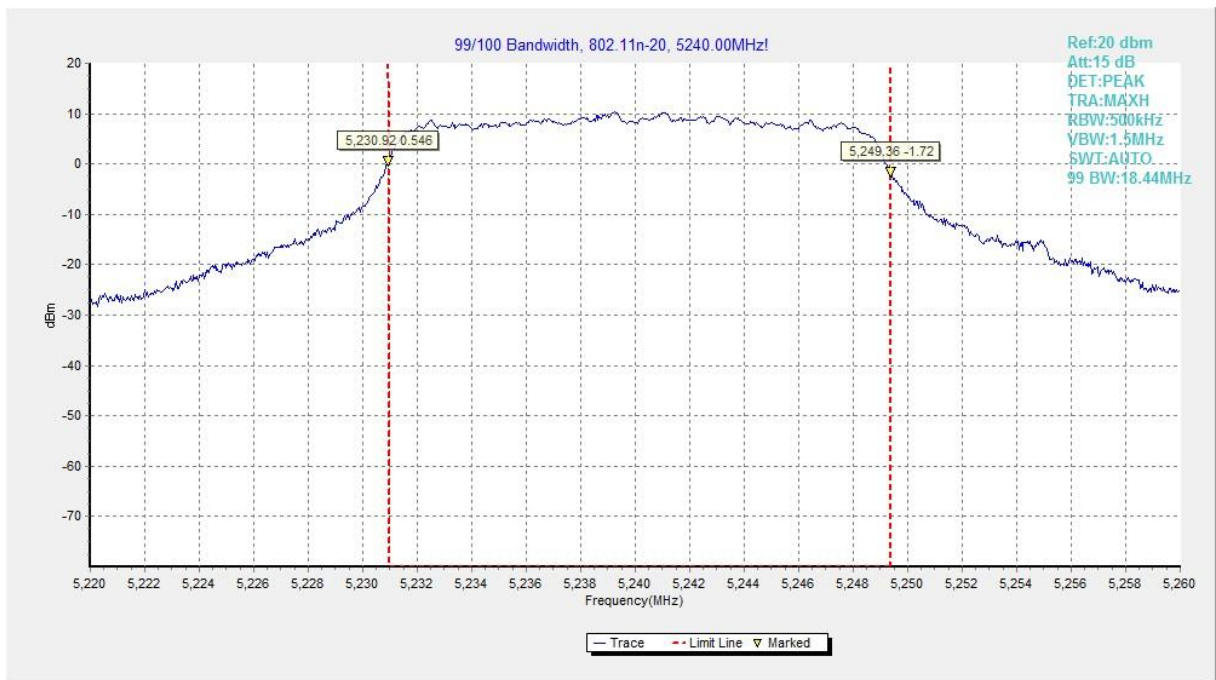
**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**



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

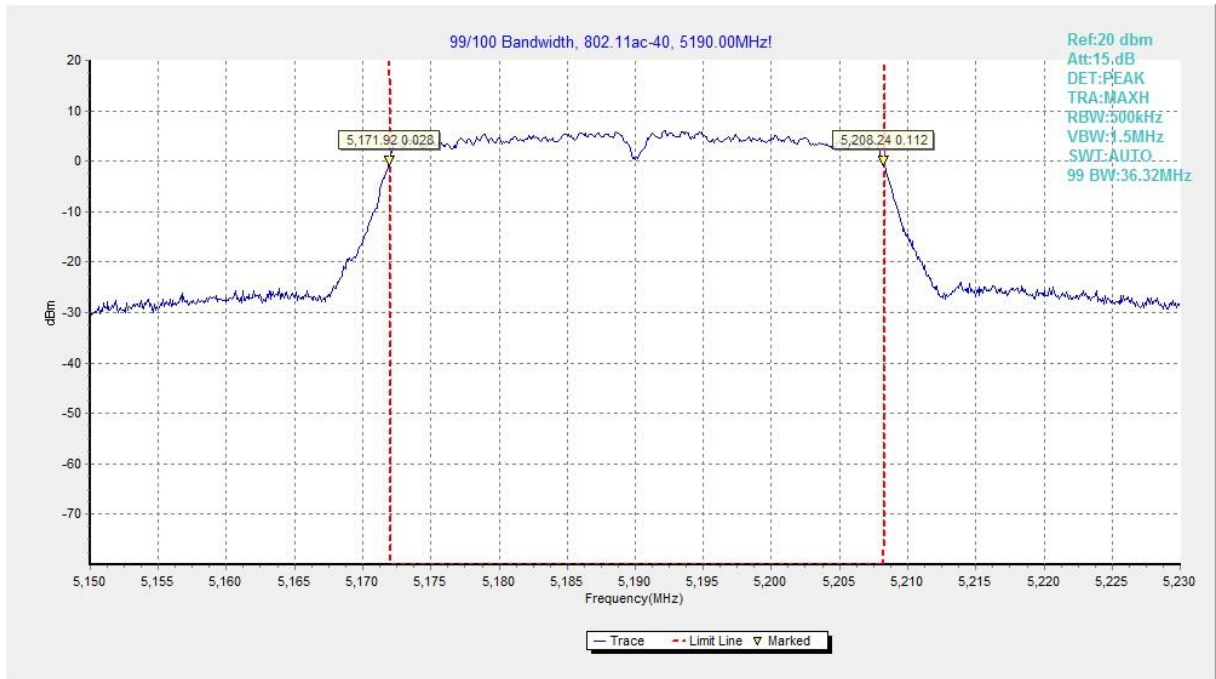


**Fig.64 99% Occupied bandwidth (802.11n-HT20, 5200MHz)**

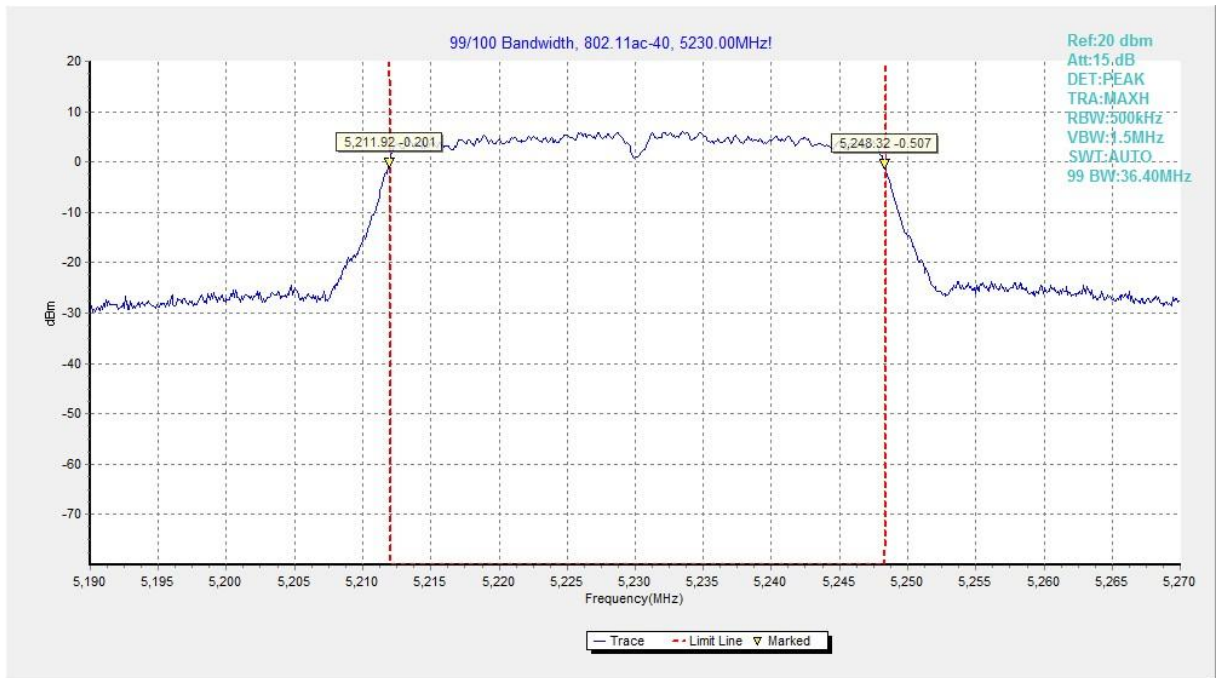


**Fig.65 99% Occupied bandwidth (802.11n-HT20, 5240MHz)**

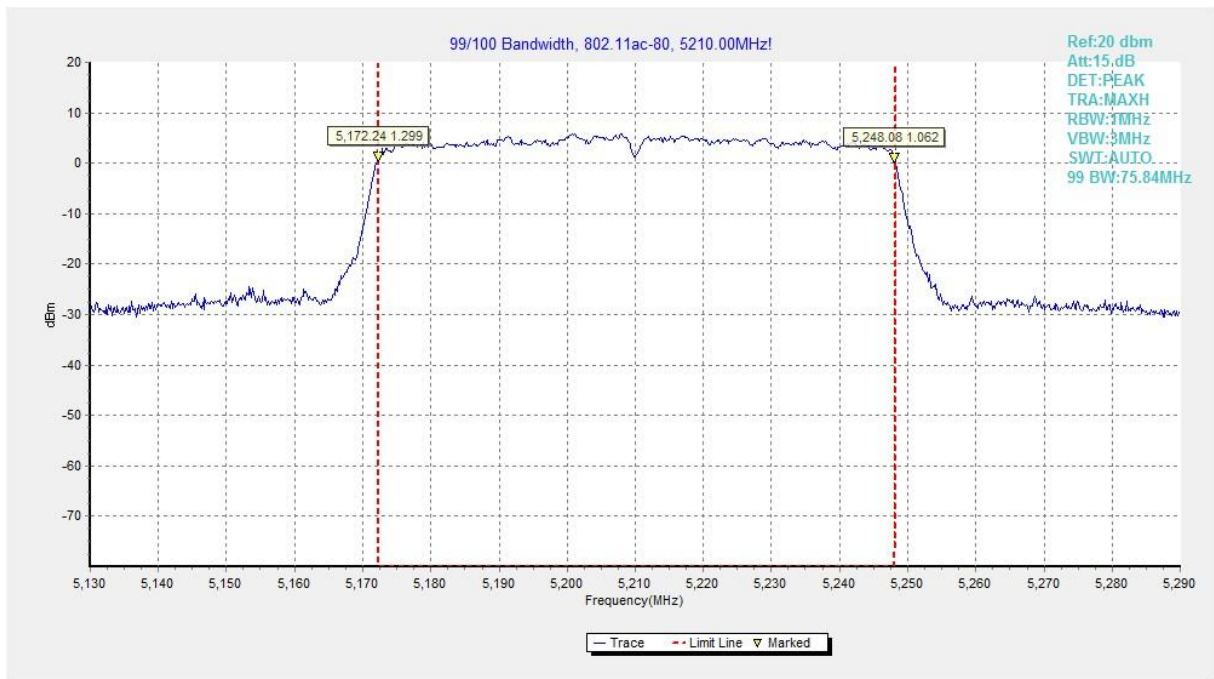




**Fig.66 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)**



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



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

### **A.9. Power control**

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

### **ANNEX B: EUT parameters**

Disclaimer: The 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>	  <hr/> For the National Voluntary Laboratory Accreditation Program

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