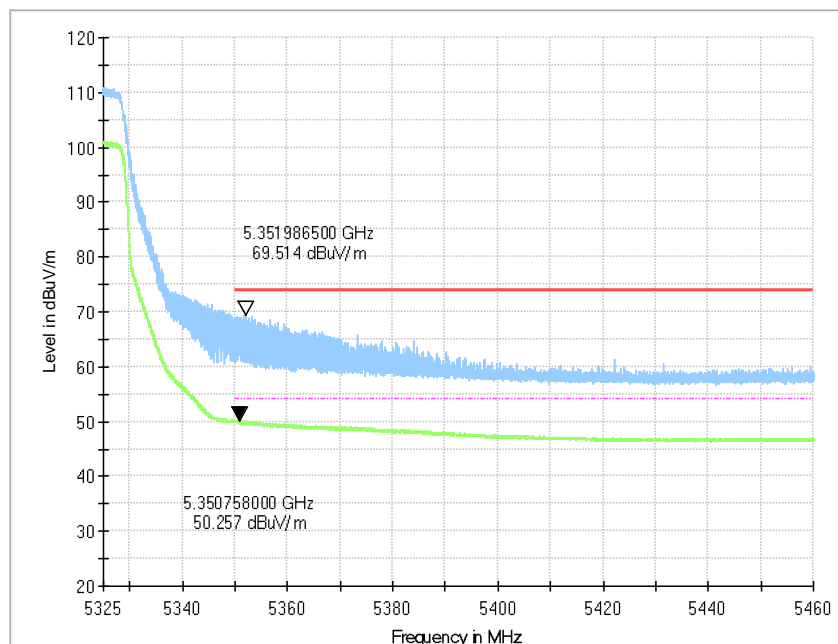
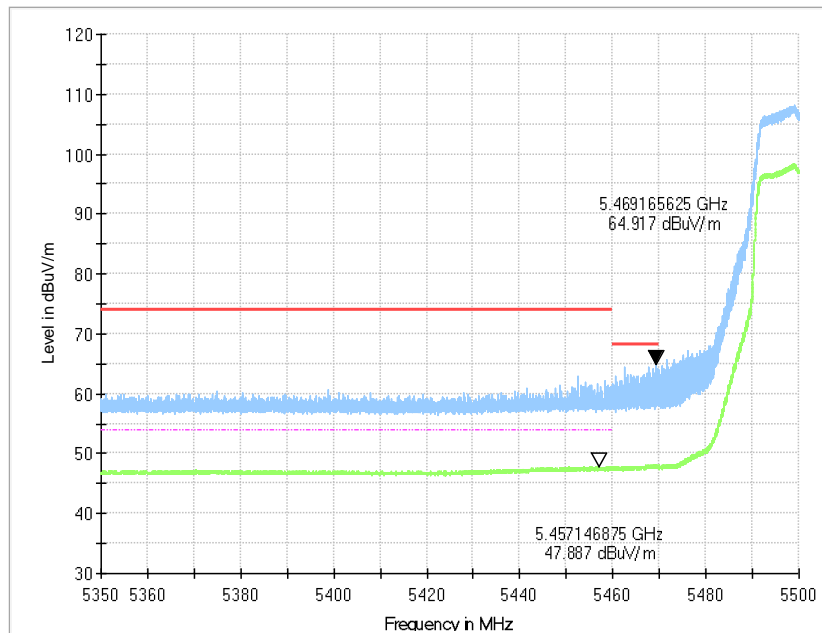


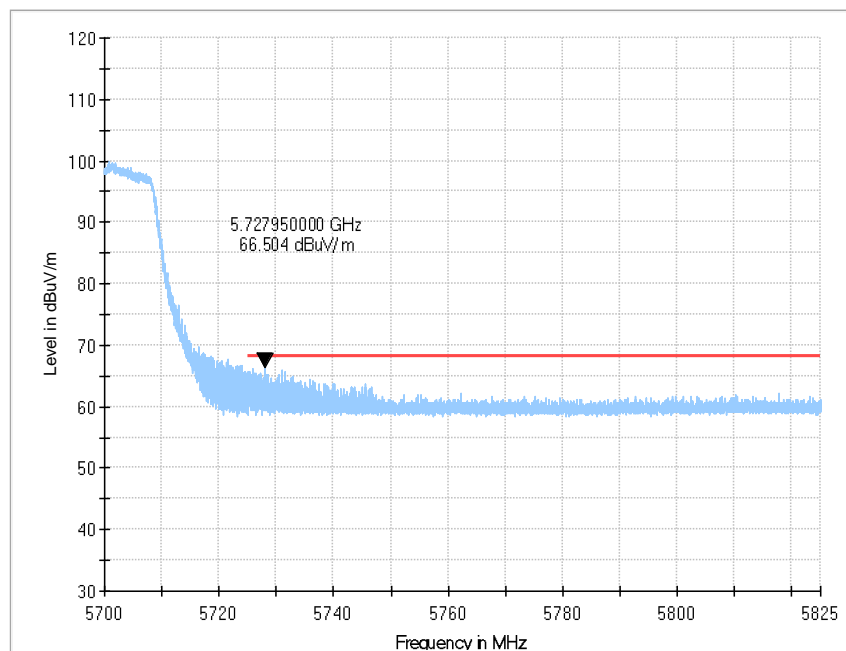
**Fig.46 Band Edges (802.11ac-HT20 Ch36, 5180MHz)**



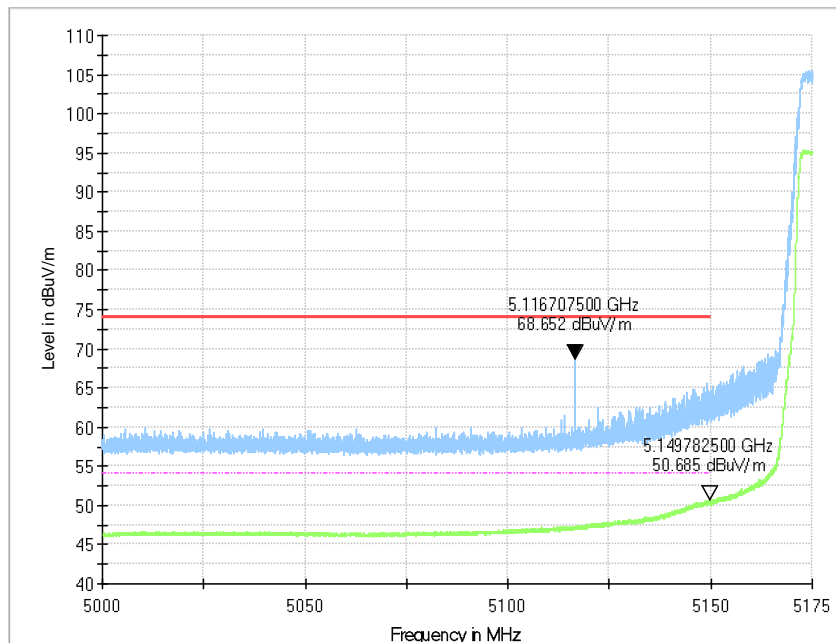
**Fig.47 Band Edges (802.11ac-HT20 Ch64, 5320MHz)**



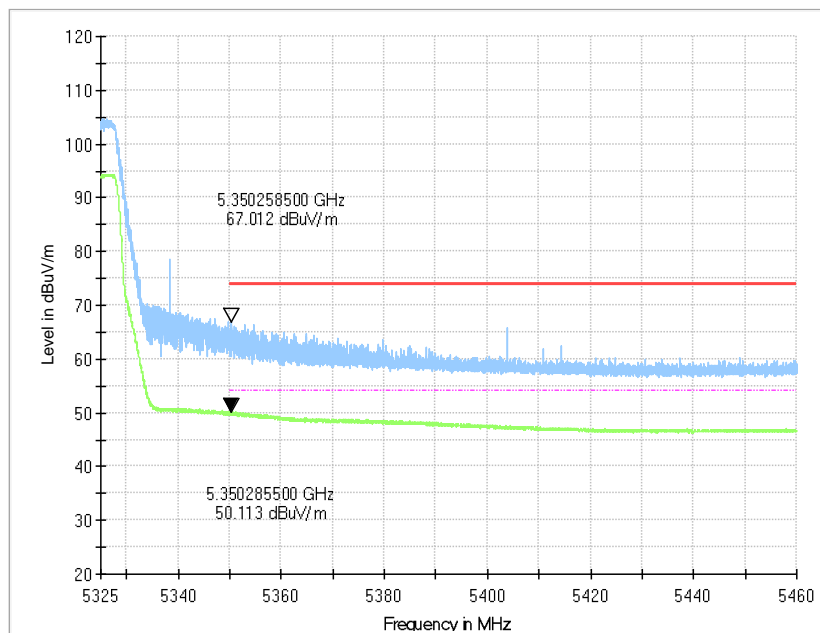
**Fig.48 Band Edges (802.11ac-HT20 Ch100, 5500MHz)**



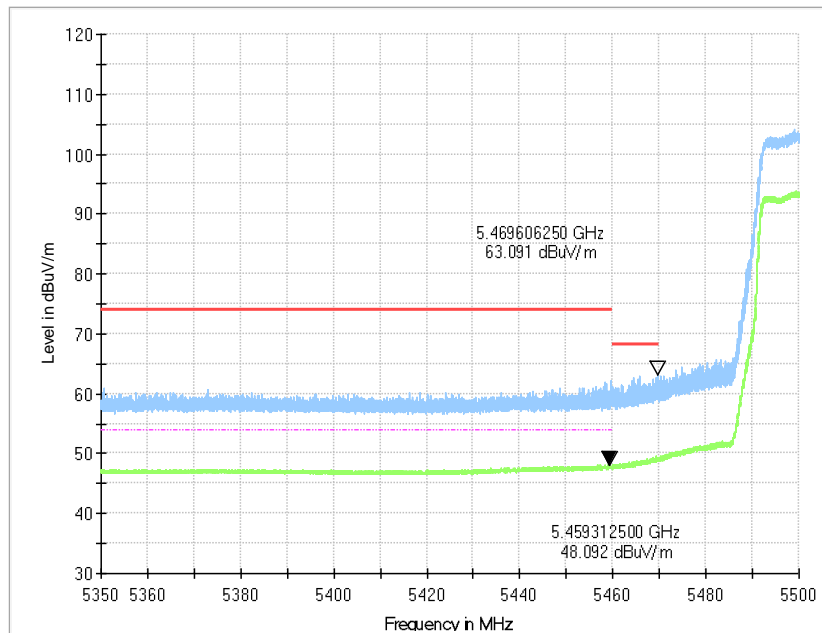
**Fig.49 Band Edges (802.11ac-HT20 Ch140, 5700MHz)**



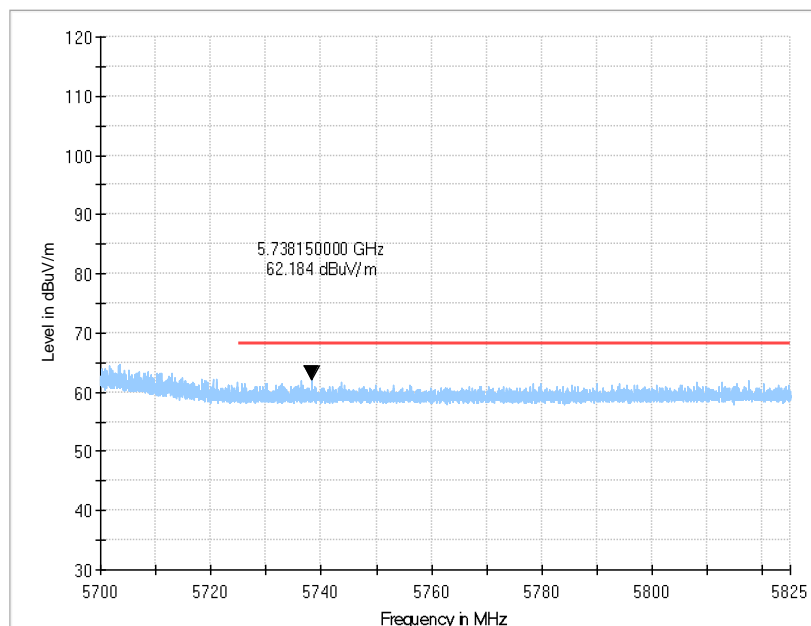
**Fig.50 Band Edges (802.11ac-HT40 Ch38, 5190MHz)**



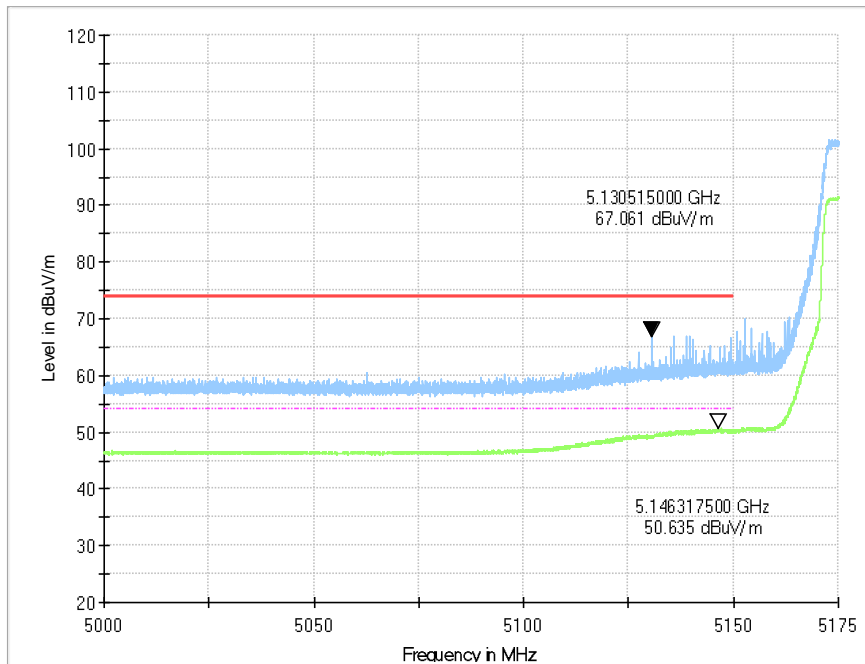
**Fig.51 Band Edges (802.11ac-HT40 Ch62, 5310MHz)**



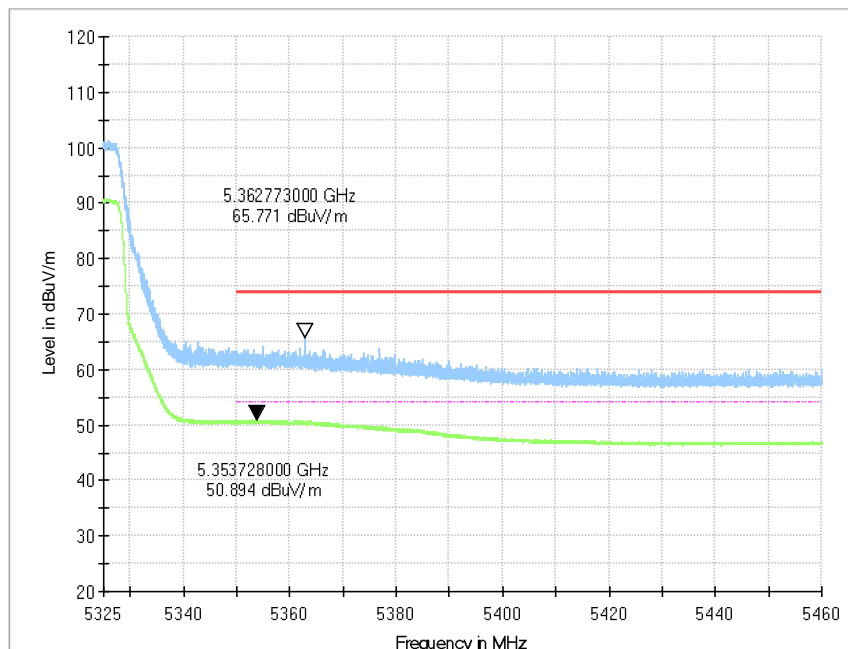
**Fig.52 Band Edges (802.11ac-HT40 Ch102, 5510MHz)**



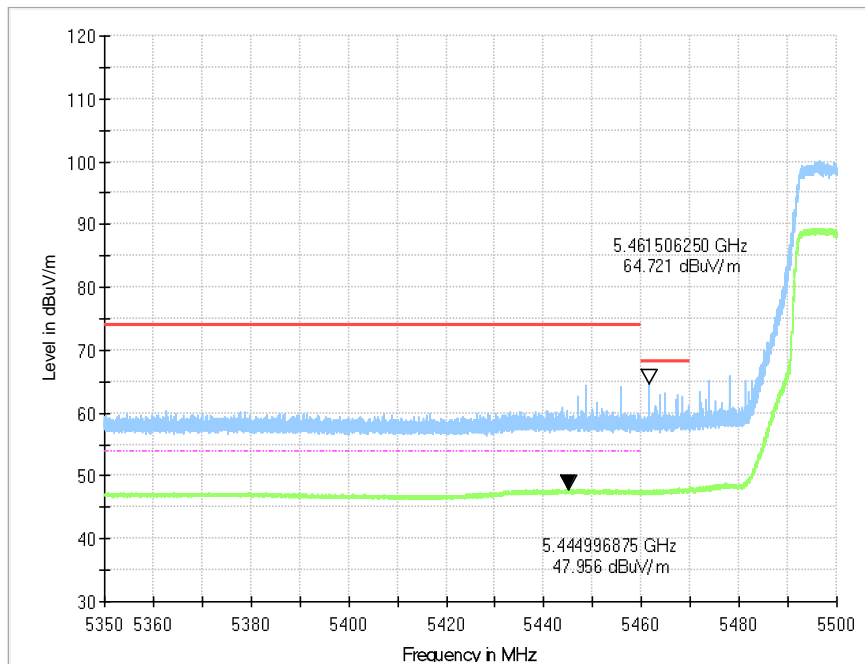
**Fig.53 Band Edges (802.11ac-HT40 Ch134, 5670MHz)**



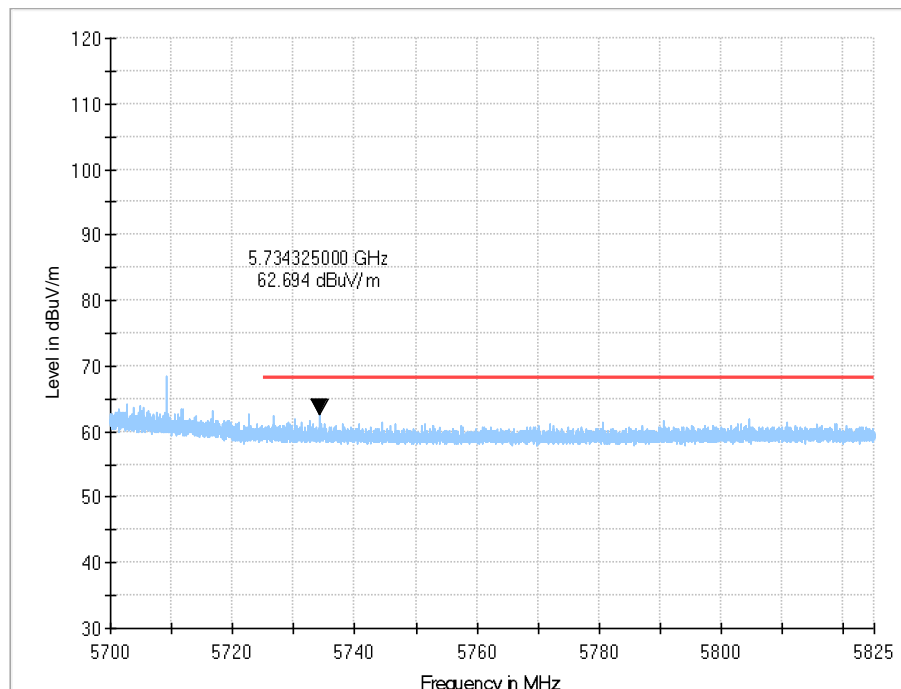
**Fig.54 Band Edges (802.11ac-HT80 Ch42 , 5210MHz)**



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



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



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

## A.6. Transmitter Spurious Emission

### Measurement Limit:

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

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

### Limit in restricted band:

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

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

### Measurement Results:

**802.11a mode**

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



**802.11n-HT20 mode**

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

**802.11n-HT40 mode**

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

**802.11ac-HT20 mode**

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

**802.11ac-HT40 mode**

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

**802.11ac-HT80 mode**

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

**Conclusion: PASS**

**Note:**

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

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

The measurement results are obtained as described below:

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

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

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5129.200	46.72	-21.20	34.32	33.60	54.00	7.28	V
5144.200	48.47	-20.90	34.38	35.00	54.00	5.53	V
10360.050	40.60	-32.02	37.46	35.16	54.00	13.40	V
15540.400	36.48	-26.59	40.08	22.99	54.00	17.52	H
17782.200	37.75	-25.70	41.30	22.15	54.00	16.25	V
17923.000	37.40	-25.79	41.20	21.99	54.00	16.60	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)
5148.600	46.69	-20.81	34.39	33.11	54.00	7.31	V
5233.400	46.73	-21.26	34.57	33.43	54.00	7.27	V
10400.100	41.26	-32.09	37.50	35.85	54.00	12.74	V
15599.800	36.41	-26.52	40.20	22.73	54.00	17.59	V
17928.500	37.28	-25.80	41.20	21.88	54.00	16.72	V
17720.600	37.52	-25.68	41.30	21.90	54.00	16.48	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)
5355.800	46.09	-20.90	34.50	32.49	54.00	7.91	V
5373.600	46.14	-20.81	34.50	32.46	54.00	7.86	V
10479.300	40.66	-32.14	37.58	35.22	54.00	13.34	H
15719.700	36.44	-26.34	40.34	22.44	54.00	17.56	V
17758.000	37.96	-25.69	41.30	22.35	54.00	16.04	V
17844.900	37.76	-25.74	41.26	22.25	54.00	16.24	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)
5147.200	46.34	-20.84	34.39	32.80	54.00	7.66	V
5148.600	46.33	-20.81	34.39	32.75	54.00	7.67	V
10520.000	43.31	-31.93	37.60	37.64	54.00	10.69	V
15780.200	37.01	-26.31	40.46	22.86	54.00	16.99	H
17753.600	38.05	-25.69	41.30	22.44	54.00	15.95	V
17805.300	37.94	-25.72	41.29	22.37	54.00	16.06	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)
5139.600	46.12	-20.99	34.36	32.76	54.00	7.88	V
5148.200	46.34	-20.82	34.39	32.77	54.00	7.66	V
10559.600	43.17	-31.72	37.60	37.29	54.00	10.83	H
15839.600	36.37	-26.30	40.58	22.09	54.00	17.63	V
17771.200	37.48	-25.70	41.30	21.87	54.00	16.52	V
17822.900	37.04	-25.73	41.28	21.49	54.00	16.96	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)
5350.500	49.51	-20.92	34.50	35.93	54.00	4.49	V
5350.800	49.42	-20.92	34.50	35.84	54.00	4.58	V
10639.900	42.30	-32.05	37.68	36.67	54.00	11.70	V
15959.500	36.06	-26.24	40.76	21.53	54.00	17.94	H
17729.400	37.46	-25.68	41.30	21.84	54.00	16.54	H
17745.000	37.29	-25.68	41.30	21.67	54.00	16.71	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)
5452.800	46.50	-21.17	34.41	33.26	54.00	7.50	V
5456.600	46.51	-21.15	34.41	33.24	54.00	7.49	V
10999.600	43.50	-31.52	37.80	37.22	54.00	10.50	H
15930.900	37.33	-26.26	40.73	22.86	54.00	16.67	V
17748.100	37.93	-25.68	41.30	22.31	54.00	16.07	V
17877.900	37.53	-25.76	41.22	22.07	54.00	16.47	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)
5376.800	46.27	-20.84	34.50	32.61	54.00	7.73	V
5387.200	46.07	-20.93	34.50	32.50	54.00	7.93	V
11199.800	42.32	-31.72	37.90	36.14	54.00	11.68	H
16142.100	35.90	-26.27	40.84	21.32	54.00	18.10	V
17742.600	37.65	-25.68	41.30	22.03	54.00	16.35	H
17827.300	37.64	-25.73	41.27	22.10	54.00	16.36	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)
5375.000	46.29	-20.82	34.50	32.61	54.00	7.71	V
5830.200	46.16	-19.85	35.10	30.91	54.00	7.84	V
11400.000	38.57	-31.78	38.10	32.25	54.00	15.43	V
15881.400	37.23	-26.30	40.66	22.86	54.00	16.77	H
17748.100	37.77	-25.68	41.30	22.16	54.00	16.23	H
17909.800	37.24	-25.78	41.20	21.83	54.00	16.76	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)
5136.800	47.91	-21.05	34.35	34.61	54.00	6.09	V
5145.000	48.94	-20.89	34.38	35.45	54.00	5.06	V
10359.400	40.52	-32.02	37.46	35.09	54.00	13.48	H
15540.400	34.49	-26.59	40.08	21.00	54.00	19.51	V
17772.300	36.12	-25.70	41.30	20.52	54.00	17.88	V
17936.200	35.48	-25.80	41.20	20.08	54.00	18.52	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)
5143.200	48.87	-20.92	34.37	35.42	54.00	5.13	V
5262.600	48.04	-21.60	34.63	35.02	54.00	5.96	V
10402.300	41.87	-32.09	37.50	36.46	54.00	12.13	V
15599.800	36.07	-26.52	40.20	22.39	54.00	17.93	V
17756.900	36.90	-25.69	41.30	21.29	54.00	17.10	V
17826.200	36.13	-25.73	41.27	20.59	54.00	17.87	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)
5355.800	46.09	-20.90	34.50	32.49	54.00	7.91	V
5373.600	46.14	-20.81	34.50	32.46	54.00	7.86	V
10479.300	42.90	-32.14	37.58	37.47	54.00	11.10	H
15719.700	35.14	-26.34	40.34	21.15	54.00	18.86	H
17747.000	37.06	-25.68	41.30	21.44	54.00	16.94	H
17788.800	36.62	-25.71	41.30	21.03	54.00	17.38	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)
5147.400	46.54	-20.84	34.39	32.99	54.00	7.46	V
5149.400	46.53	-20.80	34.40	32.93	54.00	7.47	V
10522.200	42.87	-31.92	37.60	37.18	54.00	11.13	V
15780.200	36.12	-26.31	40.46	21.97	54.00	17.88	V
17747.000	37.42	-25.68	41.30	21.81	54.00	16.58	V
17800.900	37.03	-25.72	41.30	21.45	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)
5350.600	46.94	-20.92	34.50	33.36	54.00	7.06	V
5352.400	46.93	-20.91	34.50	33.34	54.00	7.07	V
10559.600	43.08	-31.72	37.60	37.20	54.00	10.92	H
15839.600	36.09	-26.30	40.58	21.81	54.00	17.91	H
17733.800	37.55	-25.68	41.30	21.93	54.00	16.45	V
17785.500	37.36	-25.71	41.30	21.77	54.00	16.64	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)
5350.200	49.05	-20.92	34.50	35.47	54.00	4.95	V
5351.000	48.99	-20.92	34.50	35.41	54.00	5.01	V
10637.700	42.16	-32.04	37.68	36.53	54.00	11.84	V
15959.500	35.85	-26.24	40.76	21.32	54.00	18.15	V
17749.200	37.38	-25.68	41.30	21.76	54.00	16.62	H
17806.400	37.07	-25.72	41.29	21.50	54.00	16.93	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)
5453.800	46.54	-21.16	34.41	33.29	54.00	7.46	V
5458.200	46.53	-21.14	34.42	33.25	54.00	7.47	V
10999.600	43.33	-31.52	37.80	37.05	54.00	10.67	H
15852.800	37.50	-26.30	40.61	23.19	54.00	16.50	V
17745.900	37.91	-25.68	41.30	22.29	54.00	16.09	H
17789.900	37.82	-25.71	41.30	22.23	54.00	16.18	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)
5352.800	46.15	-20.91	34.50	32.56	54.00	7.85	V
5369.600	46.14	-20.83	34.50	32.47	54.00	7.86	V
11199.800	40.04	-31.72	37.90	33.86	54.00	13.96	H
15862.700	37.38	-26.30	40.63	23.05	54.00	16.62	V
17778.900	37.83	-25.70	41.30	22.23	54.00	16.17	V
17846.000	37.80	-25.74	41.25	22.28	54.00	16.20	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)
5370.800	46.36	-20.83	34.50	32.69	54.00	7.64	V
5377.800	46.20	-20.84	34.50	32.54	54.00	7.80	V
11400.000	39.09	-31.78	38.10	32.76	54.00	14.91	V
15844.000	37.67	-26.30	40.59	23.38	54.00	16.33	H
17752.500	38.04	-25.69	41.30	22.42	54.00	15.96	H
17963.700	37.98	-25.83	41.20	22.60	54.00	16.02	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)
5144.000	48.01	-20.91	34.38	34.54	54.00	5.99	V
5148.200	48.45	-20.82	34.39	34.88	54.00	5.55	V
10379.200	38.99	-32.05	37.48	33.57	54.00	15.01	V
15570.100	35.93	-26.55	40.14	22.35	54.00	18.07	V
17796.500	36.39	-25.71	41.30	20.81	54.00	17.61	H
17821.800	35.92	-25.73	41.28	20.37	54.00	18.08	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)
5147.400	47.43	-20.89	34.50	33.82	54.00	6.57	V
5350.200	46.77	-20.81	34.50	33.08	54.00	7.23	V
10468.300	39.57	-32.20	37.57	34.20	54.00	14.43	V
15690.000	35.91	-26.39	40.29	22.01	54.00	18.09	V
17763.500	36.39	-25.69	41.30	20.78	54.00	17.61	H
17782.200	36.19	-25.70	41.30	20.60	54.00	17.81	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)
5350.200	48.88	-20.92	34.50	35.30	54.00	5.12	V
5350.800	48.78	-20.92	34.50	35.20	54.00	5.22	V
10539.800	40.43	-31.82	37.60	34.65	54.00	13.57	V
15809.000	36.08	-26.30	40.52	21.87	54.00	17.92	V
17748.100	37.36	-25.68	41.30	21.75	54.00	16.64	H
17806.400	37.09	-25.72	41.29	21.52	54.00	16.91	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)
5350.400	48.49	-20.92	34.50	34.92	54.00	5.51	V
5351.200	48.38	-20.92	34.50	34.80	54.00	5.62	V
10619.000	39.84	-31.93	37.64	34.13	54.00	14.16	V
15929.800	36.59	-26.26	40.73	22.12	54.00	17.41	H
17717.300	37.44	-25.68	41.30	21.81	54.00	16.56	V
17820.700	37.27	-25.73	41.28	21.72	54.00	16.73	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)
5456.000	53.34	-21.15	34.41	40.08	54.00	0.66	V
5459.000	53.22	-21.13	34.42	39.93	54.00	0.78	V
11019.400	40.73	-31.59	37.80	34.52	54.00	13.27	V
15851.700	37.51	-26.30	40.60	23.20	54.00	16.49	H
17756.900	37.89	-25.69	41.30	22.28	54.00	16.11	H
17827.300	37.78	-25.73	41.27	22.24	54.00	16.22	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)
5367.000	46.30	-20.84	34.50	32.64	54.00	7.70	V
5373.600	46.41	-20.81	34.50	32.73	54.00	7.59	V
11180.000	39.17	-31.79	37.88	33.08	54.00	14.83	H
15853.900	37.61	-26.30	40.61	23.30	54.00	16.39	V
17751.400	37.98	-25.69	41.30	22.36	54.00	16.02	V
17810.800	37.83	-25.72	41.29	22.26	54.00	16.17	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)
5356.800	46.12	-20.89	34.50	32.52	54.00	7.88	V
5376.400	46.37	-20.83	34.50	32.70	54.00	7.63	V
11339.500	38.23	-32.11	38.10	32.24	54.00	15.77	V
15853.900	37.53	-26.30	40.61	23.22	54.00	16.47	V
17749.200	37.88	-25.68	41.30	22.26	54.00	16.12	H
17839.400	37.73	-25.74	41.26	22.21	54.00	16.27	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)
5144.600	48.23	-20.89	34.38	34.74	54.00	5.77	V
5147.400	48.89	-20.84	34.39	35.33	54.00	5.11	V
10359.400	40.74	-32.02	37.46	35.31	54.00	13.26	V
15540.400	35.77	-26.59	40.08	22.27	54.00	18.23	V
17756.900	36.69	-25.69	41.30	21.07	54.00	17.31	V
17805.300	36.23	-25.72	41.29	20.65	54.00	17.77	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)
5143.600	48.20	-20.91	34.37	34.74	54.00	5.80	V
5269.600	47.50	-21.65	34.64	34.51	54.00	6.50	V
10400.100	41.42	-32.09	37.50	36.01	54.00	12.58	H
15599.800	35.94	-26.52	40.20	22.25	54.00	18.06	H
17751.400	36.94	-25.69	41.30	21.33	54.00	17.06	V
17781.100	36.65	-25.70	41.30	21.06	54.00	17.35	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)
5303.400	46.88	-21.26	34.69	33.46	54.00	7.12	V
5344.800	46.29	-20.95	34.52	32.72	54.00	7.71	V
10479.300	43.09	-32.14	37.58	37.66	54.00	10.91	H
15719.700	34.92	-26.34	40.34	20.92	54.00	19.08	V
17769.000	36.45	-25.70	41.30	20.84	54.00	17.55	H
17807.500	36.41	-25.72	41.29	20.84	54.00	17.59	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)
5350.400	46.90	-20.92	34.50	33.33	54.00	7.10	V
5353.800	46.81	-20.91	34.50	33.21	54.00	7.19	V
10521.100	42.94	-31.92	37.60	37.26	54.00	11.06	V
15782.000	35.92	-26.31	40.46	21.77	54.00	18.08	V
17754.700	37.29	-25.69	41.30	21.68	54.00	16.71	H
17798.700	37.03	-25.71	41.30	21.44	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)
5350.600	47.42	-20.92	34.50	33.84	54.00	6.58	V
5351.800	47.20	-20.92	34.50	33.61	54.00	6.80	V
10559.600	43.20	-31.72	37.60	37.31	54.00	10.80	V
15839.600	36.13	-26.30	40.58	21.85	54.00	17.87	H
17740.400	37.15	-25.68	41.30	21.52	54.00	16.85	H
17809.700	36.88	-25.72	41.29	21.31	54.00	17.12	H

## Channel 64

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.400	49.12	-20.92	34.50	35.54	54.00	4.88	V
5351.000	49.02	-20.92	34.50	35.44	54.00	4.98	V
10639.900	41.99	-32.05	37.68	36.37	54.00	12.01	V
15959.500	36.30	-26.24	40.76	21.77	54.00	17.70	H
17749.200	37.62	-25.68	41.30	22.00	54.00	16.38	V
177943.000	37.32	0.00	0.00	37.32	54.00	16.68	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)
5456.000	46.45	-21.15	34.41	33.19	54.00	7.55	V
5459.200	46.61	-21.13	34.42	33.32	54.00	7.39	V
10999.600	43.09	-31.52	37.80	36.81	54.00	10.91	H
15856.100	37.54	-26.30	40.61	23.23	54.00	16.46	V
17734.900	37.85	-25.68	41.30	22.22	54.00	16.15	H
17826.200	38.01	-25.73	41.27	22.46	54.00	15.99	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)
5357.600	46.13	-20.89	34.50	32.51	54.00	7.87	V
5372.400	46.15	-20.82	34.50	32.47	54.00	7.85	V
11199.800	39.82	-31.72	37.90	33.64	54.00	14.18	H
15859.400	37.70	-26.30	40.62	23.38	54.00	16.30	V
17748.100	37.95	-25.68	41.30	22.33	54.00	16.05	H
17821.800	37.92	-25.73	41.28	22.37	54.00	16.08	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)
5357.600	46.06	-20.89	34.50	32.45	54.00	7.94	V
5365.600	46.13	-20.85	34.50	32.48	54.00	7.87	V
11400.000	38.64	-31.78	38.10	32.31	54.00	15.36	V
15848.400	37.47	-26.30	40.60	23.17	54.00	16.53	V
17747.000	37.91	-25.68	41.30	22.29	54.00	16.09	H
17835.000	37.72	-25.74	41.26	22.19	54.00	16.28	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)
5143.600	47.28	-20.91	34.37	33.82	54.00	6.72	V
5149.200	47.57	-20.80	34.40	33.98	54.00	6.43	V
10379.200	38.34	-32.05	37.48	32.91	54.00	15.66	H
15570.100	36.55	-26.55	40.14	22.96	54.00	17.45	H
17780.000	37.73	-25.70	41.30	22.13	54.00	16.27	H
17887.800	37.57	-25.77	41.21	22.13	54.00	16.43	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)
5136.400	46.14	-21.06	34.35	32.86	54.00	7.86	V
5145.600	46.52	-20.87	34.38	33.01	54.00	7.48	V
10459.500	39.39	-32.19	37.56	34.02	54.00	14.61	V
15690.000	36.67	-26.39	40.29	22.77	54.00	17.33	H
17797.600	37.92	-25.71	41.30	22.34	54.00	16.08	H
17871.200	37.55	-25.76	41.23	22.08	54.00	16.45	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)
5350.200	47.64	-20.92	34.50	34.06	54.00	6.36	V
5351.600	47.53	-20.92	34.50	33.95	54.00	6.47	V
10539.800	40.22	-31.82	37.60	34.45	54.00	13.78	V
15809.100	36.45	-26.30	40.52	22.24	54.00	17.55	V
17733.800	37.54	-25.68	41.30	21.91	54.00	16.46	V
17808.600	37.49	-25.72	41.29	21.92	54.00	16.51	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)
5350.000	49.13	-20.92	34.50	35.56	54.00	4.87	V
5352.000	49.10	-20.92	34.50	35.51	54.00	4.90	V
10621.200	38.90	-31.94	37.64	33.20	54.00	15.10	V
15929.800	36.82	-26.26	40.73	22.35	54.00	17.18	H
17723.900	37.58	-25.68	41.30	21.96	54.00	16.42	V
17783.300	37.61	-25.70	41.30	22.02	54.00	16.39	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)
5453.800	46.75	-21.16	34.41	33.50	54.00	7.25	V
5458.600	46.82	-21.14	34.42	33.54	54.00	7.18	V
11019.400	39.91	-31.59	37.80	33.70	54.00	14.09	H
15862.700	37.51	-26.30	40.63	23.19	54.00	16.49	H
17730.500	37.82	-25.68	41.30	22.19	54.00	16.18	H
17818.500	37.82	-25.73	41.28	22.27	54.00	16.18	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)
5367.600	46.27	-20.84	34.50	32.61	54.00	7.73	V
5383.800	46.03	-20.90	34.50	32.42	54.00	7.97	V
11180.000	38.81	-31.79	37.88	32.71	54.00	15.19	H
15880.300	37.43	-26.30	40.66	23.07	54.00	16.57	H
17748.100	37.79	-25.68	41.30	22.17	54.00	16.21	V
17795.400	37.78	-25.71	41.30	22.19	54.00	16.22	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)
5370.200	46.30	-20.83	34.50	32.63	54.00	7.70	V
5384.400	46.04	-20.90	34.50	32.45	54.00	7.96	V
11339.500	38.37	-32.11	38.10	32.37	54.00	15.63	H
15852.800	37.39	-26.30	40.61	23.08	54.00	16.61	V
17756.900	37.80	-25.69	41.30	22.18	54.00	16.20	V
17831.700	37.53	-25.73	41.27	21.99	54.00	16.47	H

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**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)
5144.000	48.98	-20.91	34.38	35.50	54.00	5.02	V
5145.800	49.07	-20.87	34.38	35.55	54.00	4.93	V
10419.900	36.77	-32.12	37.52	31.38	54.00	17.23	H
15629.500	36.33	-26.47	40.23	22.58	54.00	17.67	H
17719.500	37.37	-25.68	41.30	21.75	54.00	16.63	V
17817.400	37.30	-25.73	41.28	21.74	54.00	16.70	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)
5134.000	46.23	-21.10	34.34	33.00	54.00	7.77	V
5148.600	46.77	-20.81	34.39	33.19	54.00	7.23	V
1608.000	35.94	0.00	28.47	7.47	54.00	18.06	H
15870.400	37.07	-26.30	40.64	22.72	54.00	16.93	V
17732.700	37.70	-25.68	41.30	22.08	54.00	16.30	V
17766.800	37.58	-25.69	41.30	21.97	54.00	16.42	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)
5435.400	46.50	-21.26	34.43	33.33	54.00	7.50	V
5445.200	46.67	-21.21	34.41	33.47	54.00	7.33	V
11060.100	37.02	-31.78	37.80	31.00	54.00	16.98	V
15831.900	37.06	-26.30	40.56	22.80	54.00	16.94	V
17740.400	37.76	-25.68	41.30	22.14	54.00	16.24	H
17824.000	37.65	-25.73	41.28	22.10	54.00	16.35	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)
5374.200	46.28	-20.81	34.50	32.59	54.00	7.72	V
5380.200	46.11	-20.87	34.50	32.47	54.00	7.89	V
11219.600	37.28	-31.65	37.94	31.00	54.00	16.72	H
15848.400	37.28	-26.30	40.60	22.98	54.00	16.72	V
17764.600	37.72	-25.69	41.30	22.11	54.00	16.28	H
17832.800	37.53	-25.74	41.27	22.00	54.00	16.47	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)
5149.100	66.53	-20.80	34.40	52.94	74.00	7.47	H
5148.592	66.85	-20.81	34.39	53.27	74.00	7.15	H
10363.250	54.64	-32.03	37.46	49.20	68.30	13.66	V
15539.850	47.88	-26.59	40.08	34.39	74.00	26.12	H
17315.800	51.91	-25.87	41.20	36.58	68.30	16.39	V
17432.400	51.09	-25.84	41.20	35.73	68.30	17.21	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)
5151.600	63.54	-20.75	34.40	49.89	68.30	4.76	H
5261.200	63.65	-21.59	34.62	50.61	68.30	4.65	H
10396.250	53.82	-32.08	37.50	48.41	68.30	14.48	V
15599.800	47.77	-26.52	40.20	34.08	74.00	26.23	V
17202.500	51.52	-25.82	41.30	36.04	68.30	16.78	H
17316.350	51.15	-25.87	41.20	35.82	68.30	17.15	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)
5294.400	62.34	-21.37	34.69	49.02	68.30	5.96	H
5307.200	62.05	-21.22	34.67	48.60	68.30	6.25	H
10482.600	54.30	-32.13	37.58	48.84	68.30	14.00	V
15720.250	47.76	-26.34	40.34	33.76	74.00	26.24	H
17354.300	51.94	-25.89	41.20	36.62	68.30	16.36	V
17476.400	51.19	-25.79	41.20	35.78	68.30	17.11	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)
5203.000	63.85	-20.92	34.51	50.26	68.30	4.45	H
5205.600	62.14	-20.95	34.51	48.58	68.30	6.16	H
10525.500	56.42	-31.90	37.60	50.72	68.30	11.88	V
15780.200	50.49	-26.31	40.46	36.34	74.00	23.51	V
16784.500	52.66	-25.47	41.80	36.33	68.30	15.64	H
17457.100	53.01	-25.81	41.20	37.62	68.30	15.29	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)
5223.600	63.12	-21.15	34.55	49.72	68.30	5.18	H
5230.000	63.50	-21.22	34.56	50.16	68.30	4.80	V
10561.250	56.63	-31.71	37.60	50.74	68.30	11.67	H
15840.150	48.86	-26.30	40.58	34.58	74.00	25.14	V
16678.900	52.02	-25.60	41.76	35.86	68.30	16.28	V
17230.000	52.06	-25.83	41.27	36.62	68.30	16.24	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)
5350.312	69.32	-20.92	34.50	55.74	74.00	4.68	V
5351.163	68.83	-20.92	34.50	55.25	74.00	5.17	H
10640.450	54.57	-32.05	37.68	48.95	74.00	19.43	H
15960.050	47.57	-26.23	40.76	33.05	74.00	26.43	V
16744.350	50.59	-25.51	41.80	34.30	68.30	17.71	H
17231.650	50.87	-25.83	41.27	35.43	68.30	17.43	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)
5467.422	61.41	-21.09	34.43	48.07	68.30	6.89	H
5467.731	61.19	-21.09	34.44	47.84	68.30	7.11	H
11000.700	57.10	-31.51	37.80	50.81	74.00	16.90	H
16500.150	48.99	-25.90	41.50	33.39	68.30	19.31	H
17308.100	51.52	-25.87	41.20	36.19	68.30	16.78	V
17541.300	50.79	-25.70	41.20	35.29	68.30	17.51	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)
5526.400	62.00	-20.38	34.55	47.83	68.30	6.30	H
5673.400	62.26	-20.70	34.75	48.21	68.30	6.04	V
11198.700	51.24	-31.72	37.90	45.06	74.00	22.76	H
16799.900	49.05	-25.45	41.80	32.70	68.30	19.25	H
17461.550	50.57	-25.80	41.20	35.17	68.30	17.73	H
17553.400	51.50	-25.69	41.20	35.99	68.30	16.80	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)
5725.025	64.94	-20.45	34.85	50.53	68.30	3.36	H
5726.262	64.52	-20.44	34.85	50.10	68.30	3.78	H
11400.550	50.30	-31.77	38.10	43.97	74.00	23.70	V
17100.200	49.43	-25.77	41.50	33.70	68.30	18.87	H
17189.300	52.55	-25.81	41.32	37.04	68.30	15.75	H
17285.000	51.21	-25.85	41.21	35.85	68.30	17.09	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)
5148.190	68.05	-20.82	34.39	54.48	74.00	5.95	V
5148.942	67.50	-20.81	34.40	53.91	74.00	6.50	V
10352.800	52.89	-32.01	37.45	47.45	68.30	15.41	H
15539.850	46.34	-26.59	40.08	32.85	74.00	27.66	H
17091.400	49.04	-25.76	41.53	33.27	68.30	19.26	H
17322.400	49.92	-25.87	41.20	34.59	68.30	18.38	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)
5153.000	63.15	-20.73	34.41	49.47	68.30	5.15	V
5247.600	64.85	-21.43	34.60	51.68	68.30	3.45	H
10398.450	53.55	-32.09	37.50	48.13	68.30	14.75	V
15599.800	46.86	-26.52	40.20	33.18	74.00	27.14	V
17259.150	50.05	-25.84	41.24	34.65	68.30	18.25	V
17304.800	50.66	-25.86	41.20	35.33	68.30	17.64	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)
5290.000	62.83	-21.42	34.68	49.57	68.30	5.47	H
5294.400	62.34	-21.37	34.69	49.02	68.30	5.96	H
10479.850	56.29	-32.14	37.58	50.85	68.30	12.01	V
15720.250	46.85	-26.34	40.34	32.85	74.00	27.15	H
17118.350	50.35	-25.78	41.46	34.66	68.30	17.95	V
17604.550	50.38	-25.68	41.20	34.85	68.30	17.92	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)
5205.400	62.18	-20.95	34.51	48.62	68.30	6.12	H
5208.000	64.26	-20.97	34.52	50.72	68.30	4.04	V
10521.100	56.16	-31.92	37.60	50.48	68.30	12.14	H
15780.200	47.49	-26.31	40.46	33.33	74.00	26.51	V
16796.050	49.68	-25.46	41.80	33.33	68.30	18.62	H
17252.000	51.51	-25.84	41.25	36.10	68.30	16.79	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)
5338.600	62.24	-20.98	34.55	48.67	68.30	6.06	V
5346.000	62.37	-20.94	34.52	48.79	68.30	5.93	V
10556.850	55.58	-31.73	37.60	49.71	68.30	12.72	V
15780.200	49.32	-26.31	40.46	35.17	74.00	24.68	V
16741.600	50.61	-25.51	41.80	34.32	68.30	17.69	H
17073.200	50.84	-25.76	41.58	35.01	68.30	17.46	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)
5356.806	66.91	-20.89	34.50	53.30	74.00	7.09	H
5358.520	67.38	-20.88	34.50	53.76	74.00	6.62	H
10639.900	54.88	-32.05	37.68	49.25	74.00	19.12	H
15960.050	46.77	-26.23	40.76	32.24	74.00	27.23	H
16873.050	51.03	-25.37	41.80	34.60	68.30	17.27	H
17242.650	49.50	-25.84	41.26	34.08	68.30	18.80	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)
5467.741	64.94	-21.09	34.44	51.59	68.30	3.36	H
5469.062	64.43	-21.08	34.44	51.07	68.30	3.87	V
10994.650	55.93	-31.55	37.79	49.69	74.00	18.07	V
16500.150	49.17	-25.90	41.50	33.57	68.30	19.13	H
17210.200	51.58	-25.82	41.29	36.11	68.30	16.72	V
17572.650	51.24	-25.68	41.20	35.72	68.30	17.06	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)
5535.200	63.91	-20.26	34.57	49.60	68.30	4.39	H
5664.000	64.59	-20.74	34.73	50.61	68.30	3.70	H
11197.600	51.59	-31.73	37.90	45.42	74.00	22.41	H
16799.900	50.06	-25.45	41.80	33.71	68.30	18.24	V
17252.000	51.48	-25.84	41.25	36.07	68.30	16.82	V
17524.250	50.70	-25.72	41.20	35.23	68.30	17.60	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)
5725.100	64.39	-20.45	34.85	49.98	68.30	3.91	H
5725.337	63.69	-20.45	34.85	49.29	68.30	4.61	H
11402.750	50.92	-31.76	38.10	44.58	74.00	23.08	V
17100.200	50.70	-25.77	41.50	34.97	68.30	17.60	V
17355.950	50.96	-25.89	41.20	35.65	68.30	17.34	V
17666.700	50.67	-25.68	41.27	35.08	68.30	17.63	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)
5149.555	65.51	-20.80	34.40	51.90	74.00	8.49	V
5148.890	65.48	-20.81	34.40	51.89	74.00	8.52	V
10379.750	51.73	-32.06	37.48	46.31	68.30	16.57	H
15570.100	46.55	-26.55	40.14	32.96	74.00	27.45	H
17195.900	49.98	-25.81	41.31	34.48	68.30	18.32	H
17319.100	49.87	-25.87	41.20	34.54	68.30	18.43	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)
5166.400	65.26	-20.99	34.56	51.69	68.30	3.04	V
5301.800	64.07	-20.97	34.54	50.50	68.30	4.23	H
10463.900	53.07	-32.20	37.56	47.71	68.30	15.23	V
15690.000	46.68	-26.39	40.29	32.78	74.00	27.32	V
17188.200	49.17	-25.81	41.32	33.65	68.30	19.13	V
17222.850	49.01	-25.83	41.28	33.56	68.30	19.29	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)
5209.400	65.32	-20.99	34.52	51.80	68.30	2.98	H
5345.600	63.50	-20.95	34.52	49.93	68.30	4.80	H
10549.700	52.79	-31.77	37.60	46.96	68.30	15.51	V
15809.900	47.12	-26.30	40.52	32.90	74.00	26.88	H
16783.400	51.78	-25.47	41.80	35.45	68.30	16.52	H
17245.400	50.99	-25.84	41.25	35.58	68.30	17.31	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)
5350.758	63.55	-20.92	34.50	49.97	74.00	10.45	V
5351.244	63.42	-20.92	34.50	49.84	74.00	10.58	H
10621.750	52.67	-31.95	37.64	46.97	74.00	21.33	H
15929.800	48.07	-26.26	40.73	33.60	74.00	25.93	H
16740.500	51.39	-25.51	41.80	35.11	68.30	16.91	V
17283.900	51.28	-25.85	41.22	35.92	68.30	17.02	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)
5468.303	67.77	-21.09	34.44	54.42	68.30	0.53	V
5469.531	67.62	-21.08	34.44	54.26	68.30	0.68	V
11015.550	52.98	-31.57	37.80	46.76	74.00	21.02	H
16529.850	48.34	-25.85	41.53	32.66	68.30	19.96	V
16830.700	51.24	-25.42	41.80	34.85	68.30	17.06	H
17339.450	51.12	-25.88	41.20	35.79	68.30	17.18	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)
5516.800	64.24	-20.52	34.53	50.23	68.30	4.06	V
5647.000	64.92	-20.80	34.69	51.03	68.30	3.38	V
11180.000	49.26	-31.79	37.88	43.17	74.00	24.74	V
16770.200	49.76	-25.48	41.80	33.44	68.30	18.54	V
17303.150	51.83	-25.86	41.20	36.49	68.30	16.47	V
17474.750	51.18	-25.79	41.20	35.76	68.30	17.12	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)
5725.438	62.09	-20.45	34.85	47.69	68.30	6.20	H
5730.750	62.40	-20.42	34.86	47.95	68.30	5.90	H
11321.350	48.47	-32.07	38.10	42.45	74.00	25.53	H
17010.000	49.02	-25.67	41.77	32.92	68.30	19.28	V
17236.600	51.62	-25.83	41.26	36.19	68.30	16.68	V
17534.150	50.61	-25.71	41.20	35.12	68.30	17.69	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)
5148.820	66.98	-20.81	34.40	53.39	74.00	7.02	V
5149.835	67.04	-20.79	34.40	53.43	74.00	6.96	V
10359.400	54.32	-32.02	37.46	48.89	68.30	13.98	H
15539.850	48.28	-26.59	40.08	34.79	74.00	25.72	V
17151.900	50.12	-25.79	41.40	34.52	68.30	18.18	H
17139.250	50.10	-25.79	41.42	34.46	68.30	18.20	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)
5150.600	62.51	-20.77	34.40	48.88	68.30	5.79	H
5242.000	64.18	-21.36	34.58	50.96	68.30	4.12	H
10400.100	54.09	-32.09	37.50	48.68	68.30	14.21	H
15599.800	46.96	-26.52	40.20	33.28	74.00	27.04	H
17238.250	49.65	-25.83	41.26	34.22	68.30	18.65	H
17588.600	50.02	-25.68	41.20	34.50	68.30	18.28	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)
5325.800	61.03	-21.04	34.60	47.47	68.30	7.27	V
5332.600	59.99	-21.01	34.57	46.42	68.30	8.31	V
10478.200	54.95	-32.15	37.58	49.52	68.30	13.35	H
15720.250	46.40	-26.34	40.34	32.40	74.00	27.60	V
17197.550	50.36	-25.82	41.30	34.87	68.30	17.94	V
17234.400	51.16	-25.83	41.27	35.73	68.30	17.14	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)
5205.200	64.69	-20.94	34.51	51.12	68.30	3.61	V
5324.600	64.20	-21.04	34.60	50.64	68.30	4.10	V
10526.050	55.40	-31.90	37.60	49.69	68.30	12.90	H
15780.200	48.82	-26.31	40.46	34.67	74.00	25.18	H
16745.450	50.16	-25.51	41.80	33.86	68.30	18.14	H
17288.850	50.73	-25.86	41.21	35.37	68.30	17.57	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)
5222.400	63.87	-21.14	34.54	50.46	68.30	4.43	V
5346.400	62.56	-20.94	34.51	48.99	68.30	5.74	H
10560.700	57.09	-31.71	37.60	51.21	68.30	11.21	V
15780.200	47.22	-26.31	40.46	33.07	74.00	26.78	V
16750.400	50.12	-25.50	41.80	33.83	68.30	18.18	H
17261.350	50.49	-25.84	41.24	35.10	68.30	17.81	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)
5352.045	69.24	-20.91	34.50	55.65	74.00	4.76	H
5351.986	69.51	-20.92	34.50	55.93	74.00	4.49	V
10639.350	54.79	-32.05	37.68	49.16	74.00	19.21	H
15960.050	47.59	-26.23	40.76	33.06	74.00	26.41	V
16774.600	50.79	-25.48	41.80	34.47	68.30	17.51	V
17229.450	51.11	-25.83	41.27	35.67	68.30	17.19	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)
5462.415	64.55	-21.12	34.42	51.24	68.30	3.75	H
5469.165	64.92	-21.08	34.44	51.56	68.30	3.38	V
10999.050	56.42	-31.52	37.80	50.15	74.00	17.58	H
16500.150	49.24	-25.90	41.50	33.64	68.30	19.06	H
16862.600	52.38	-25.39	41.80	35.96	68.30	15.92	V
17246.500	51.71	-25.84	41.25	36.30	68.30	16.59	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)
5537.400	63.71	-20.23	34.57	49.37	68.30	4.59	V
5664.000	63.03	-20.74	34.73	49.04	68.30	5.27	H
11199.250	50.47	-31.72	37.90	44.30	74.00	23.53	V
16799.900	51.24	-25.45	41.80	34.89	68.30	17.06	H
17058.950	51.69	-25.75	41.62	35.82	68.30	16.61	V
17387.300	52.35	-25.90	41.20	37.05	68.30	15.95	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)
5726.738	61.36	-20.44	34.85	46.94	68.30	6.94	V
5728.250	62.54	-20.43	34.86	48.11	68.30	5.76	V
11398.350	50.14	-31.79	38.10	43.83	74.00	23.86	H
17100.200	49.49	-25.77	41.50	33.76	68.30	18.81	V
17240.450	51.45	-25.84	41.26	36.02	68.30	16.85	V
17570.450	51.16	-25.68	41.20	35.64	68.30	17.13	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)
5116.708	68.65	-21.45	34.27	55.84	74.00	5.35	H
5148.977	65.60	-20.81	34.40	52.01	74.00	8.40	V
10373.150	50.03	-32.04	37.47	44.60	68.30	18.27	H
15570.100	48.48	-26.55	40.14	34.90	74.00	25.52	H
17330.100	51.19	-25.87	41.20	35.86	68.30	17.11	H
17498.950	51.42	-25.76	41.20	35.98	68.30	16.88	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)
5300.000	65.52	-21.30	34.70	52.12	68.30	2.78	V
5306.600	62.19	-21.23	34.67	48.74	68.30	6.11	V
10471.050	52.34	-32.19	37.57	46.96	68.30	15.96	H
15690.000	49.75	-26.39	40.29	35.85	74.00	24.25	V
17084.250	51.03	-25.76	41.55	35.25	68.30	17.27	H
17871.300	51.03	-25.76	41.23	35.56	68.30	17.27	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)
5220.400	64.81	-21.11	34.54	51.38	68.30	3.49	H
5322.600	64.98	-21.05	34.61	51.43	68.30	3.32	H
10539.800	53.57	-31.82	37.60	47.79	68.30	14.73	H
15809.900	48.58	-26.30	40.52	34.37	74.00	25.42	H
16769.100	50.69	-25.48	41.80	34.37	68.30	17.61	H
17205.800	51.30	-25.82	41.29	35.83	68.30	17.00	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)
5350.258	67.01	-20.92	34.50	53.44	74.00	6.99	V
5352.891	66.27	-20.91	34.50	52.68	74.00	7.73	V
10608.500	52.07	-31.87	37.62	46.32	74.00	21.93	V
15929.800	48.26	-26.26	40.73	33.80	74.00	25.74	H
16473.750	50.84	-25.94	41.40	35.39	68.30	17.46	H
17239.350	51.26	-25.83	41.26	35.83	68.30	17.04	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)
5465.819	63.00	-21.10	34.43	49.66	68.30	5.30	V
5469.606	63.09	-21.08	34.44	49.73	68.30	5.21	H
11017.750	51.78	-31.59	37.80	45.56	74.00	22.22	H
16529.850	50.28	-25.85	41.53	34.60	68.30	18.02	V
16770.750	52.79	-25.48	41.80	36.47	68.30	15.51	H
17225.600	52.01	-25.83	41.27	36.56	68.30	16.29	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)
5518.000	62.15	-20.50	34.54	48.12	68.30	6.15	V
5663.800	62.93	-20.74	34.73	48.94	68.30	5.37	H
11165.700	49.00	-31.83	37.87	42.97	74.00	25.00	H
16770.200	49.37	-25.48	41.80	33.05	68.30	18.93	H
17376.850	51.95	-25.90	41.20	36.65	68.30	16.35	H
17639.750	51.97	-25.68	41.24	36.41	68.30	16.33	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)
5736.387	61.81	-20.38	34.87	47.32	68.30	6.49	H
5738.150	62.18	-20.37	34.88	47.68	68.30	6.12	V
11340.050	48.69	-32.10	38.10	42.69	74.00	25.31	V
17010.000	48.44	-25.67	41.77	32.34	68.30	19.86	V
17377.400	51.06	-25.90	41.20	35.76	68.30	17.23	V
17654.050	50.73	-25.68	41.25	35.16	68.30	17.57	H

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## 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)
5130.515	67.06	-21.17	34.32	53.91	74.00	6.94	H
5138.757	67.03	-21.01	34.36	53.69	74.00	6.97	V
10430.350	48.88	-32.14	37.53	43.49	68.30	19.42	V
15630.050	48.97	-26.47	40.23	35.21	74.00	25.03	V
16893.400	51.80	-25.41	41.80	35.41	68.30	16.50	H
17192.050	51.95	-25.81	41.32	36.45	68.30	16.35	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)
5354.860	64.22	-20.90	34.50	50.62	74.00	9.78	V
5362.773	65.77	-20.86	34.50	52.14	74.00	8.23	V
10607.450	49.94	-31.86	37.61	44.19	74.00	24.06	H
15869.850	48.49	-26.30	40.64	34.15	74.00	25.51	H
16763.600	50.93	-25.49	41.80	34.62	68.30	17.37	V
17307.550	50.79	-25.86	41.20	35.46	68.30	17.51	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)
5461.506	64.72	-21.12	34.42	51.42	68.30	3.58	H
5464.843	63.23	-21.10	34.43	49.91	68.30	5.07	V
11060.100	48.39	-31.78	37.80	42.37	74.00	25.61	V
16589.800	48.19	-25.75	41.59	32.35	68.30	20.11	V
16758.650	51.80	-25.49	41.80	35.49	68.30	16.50	H
17307.000	51.52	-25.86	41.20	36.19	68.30	16.78	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)
5726.737	62.53	-20.44	34.85	48.11	68.30	5.77	H
5734.325	62.69	-20.40	34.87	48.22	68.30	5.61	V
11220.150	46.65	-31.65	37.94	40.36	74.00	27.35	V
16830.150	49.10	-25.42	41.80	32.72	68.30	19.20	H
17252.000	52.64	-25.84	41.25	37.23	68.30	15.66	V
17590.250	50.71	-25.68	41.20	35.19	68.30	17.59	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			

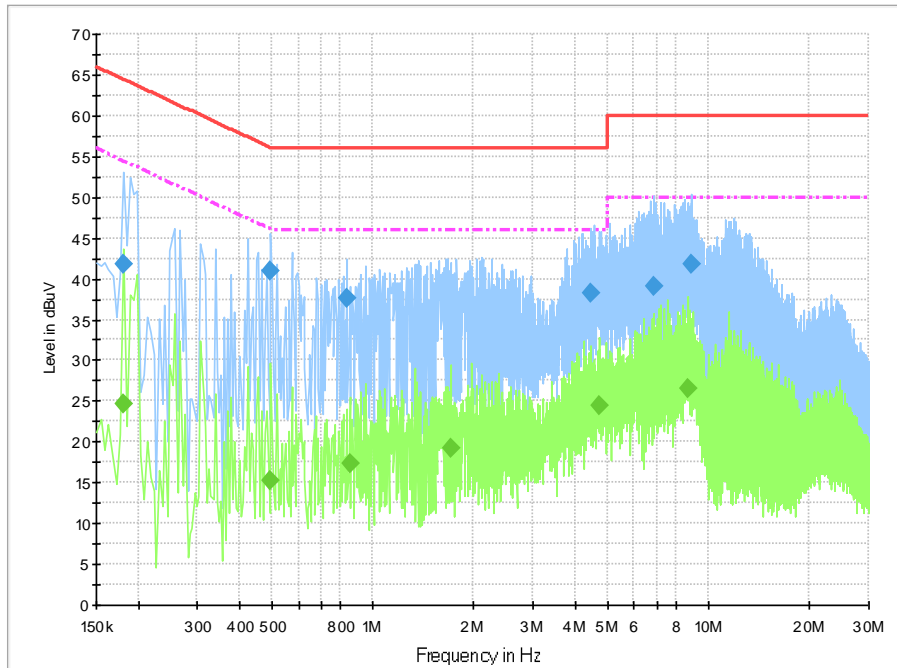
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**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.

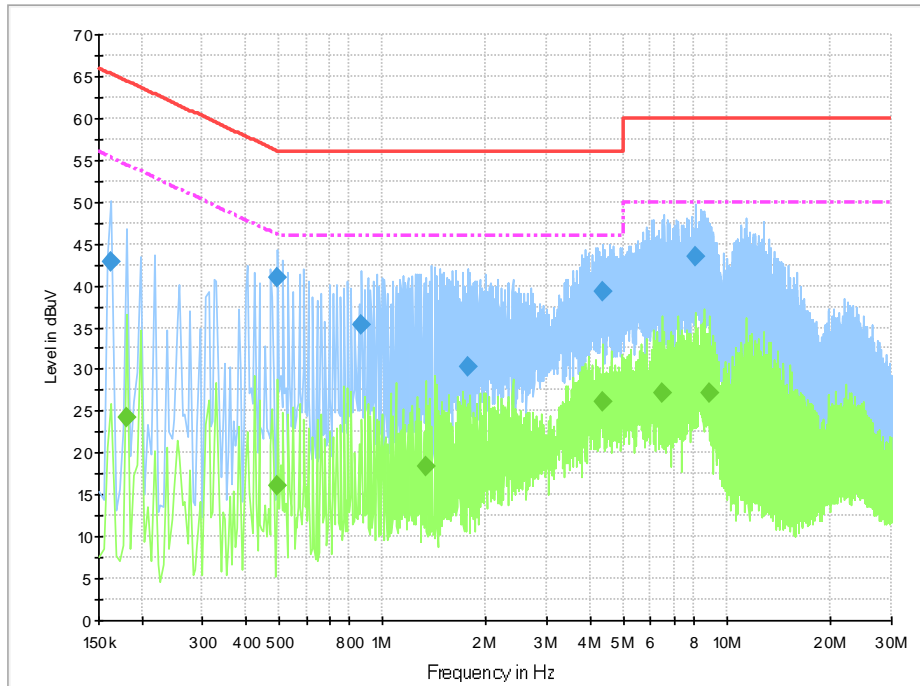
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	41.8	2000.0	9.000	On	N	19.8	22.6	64.4
0.496500	40.9	2000.0	9.000	On	L1	19.8	15.1	56.1
0.834000	37.5	2000.0	9.000	On	L1	19.7	18.5	56.0
4.443000	38.2	2000.0	9.000	On	L1	19.6	17.8	56.0
6.900000	39.0	2000.0	9.000	On	L1	19.7	21.0	60.0
8.884500	41.8	2000.0	9.000	On	N	19.7	18.2	60.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	24.6	2000.0	9.000	On	L1	19.8	29.8	54.4
0.496500	15.2	2000.0	9.000	On	N	19.8	30.8	46.1
0.852000	17.3	2000.0	9.000	On	L1	19.7	28.7	46.0
1.702500	19.2	2000.0	9.000	On	N	19.6	26.8	46.0
4.749000	24.5	2000.0	9.000	On	L1	19.7	21.5	46.0
8.718000	26.5	2000.0	9.000	On	N	19.7	23.5	50.0

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)
0.163500	42.8	2000.0	9.000	On	L1	19.9	22.5	65.3
0.496500	40.9	2000.0	9.000	On	L1	19.8	15.2	56.1
0.870000	35.3	2000.0	9.000	On	N	19.7	20.7	56.0
1.765500	30.2	2000.0	9.000	On	L1	19.6	25.8	56.0
4.348500	39.2	2000.0	9.000	On	L1	19.6	16.8	56.0
8.137500	43.5	2000.0	9.000	On	N	19.7	16.5	60.0

**Final Result 2**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.181500	24.3	2000.0	9.000	On	L1	19.8	30.1	54.4
0.496500	16.1	2000.0	9.000	On	N	19.8	30.0	46.1
1.333500	18.4	2000.0	9.000	On	N	19.6	27.6	46.0
4.348500	26.2	2000.0	9.000	On	L1	19.6	19.8	46.0
6.481500	27.1	2000.0	9.000	On	L1	19.7	22.9	50.0
8.889000	27.1	2000.0	9.000	On	L1	19.7	22.9	50.0

### A.8. 99% Occupied bandwidth

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

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

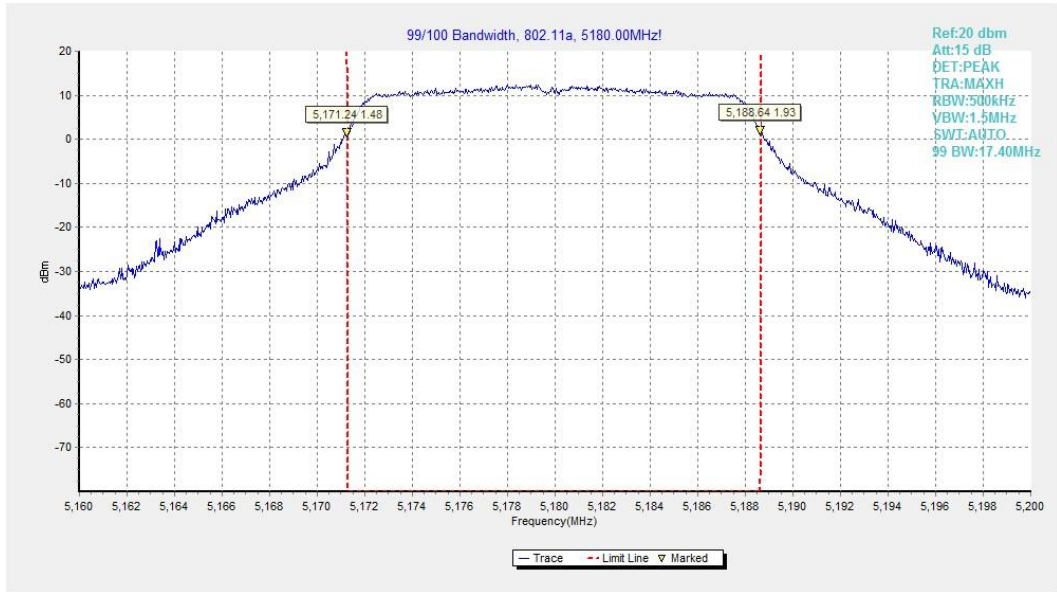
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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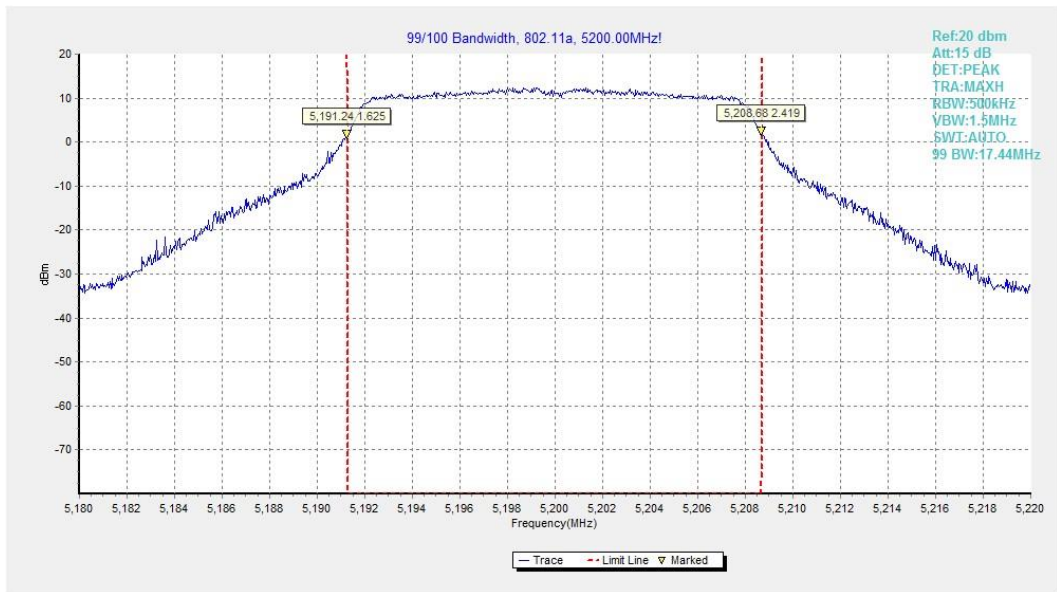
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.60	17.40	P
	5200 MHz	Fig.61	17.44	P
	5240 MHz	Fig.62	17.36	P
802.11ac HT20	5180 MHz	Fig.63	18.44	P
	5200 MHz	Fig.64	18.48	P
	5240 MHz	Fig.65	18.44	P
802.11n HT40	5190 MHz	Fig.66	36.40	P
	5230 MHz	Fig.67	36.48	P
802.11ac HT80	5210 MHz	Fig.68	76.00	P

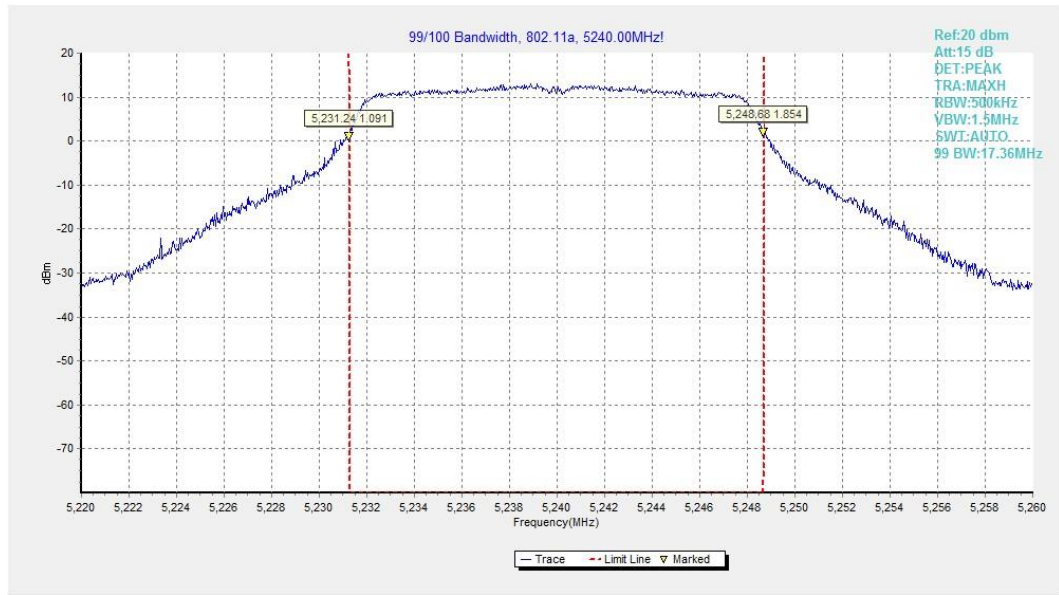
**Conclusion: PASS**  
**Test graphs as below:**



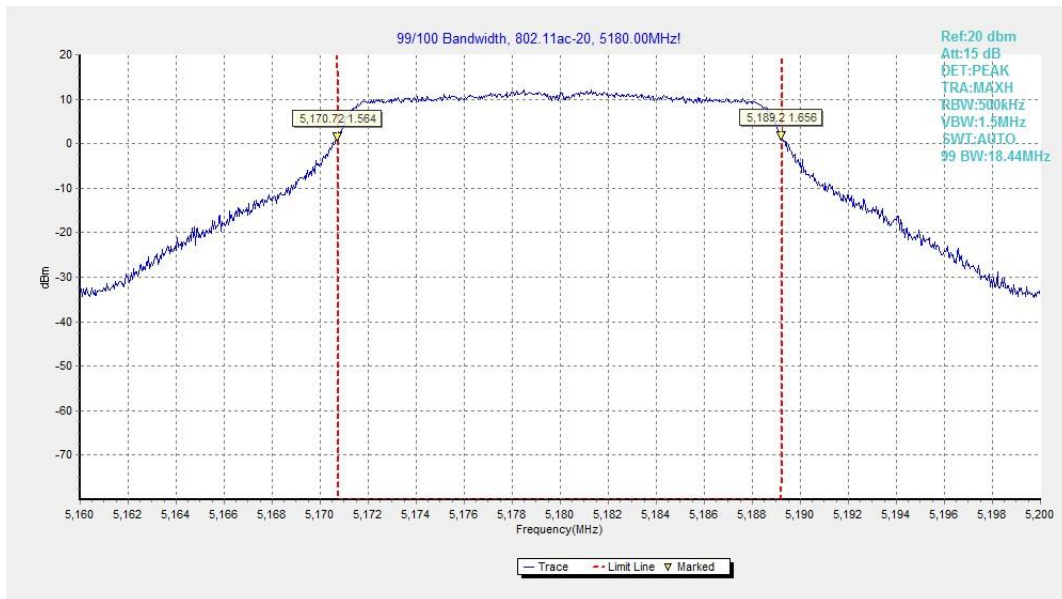
**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**



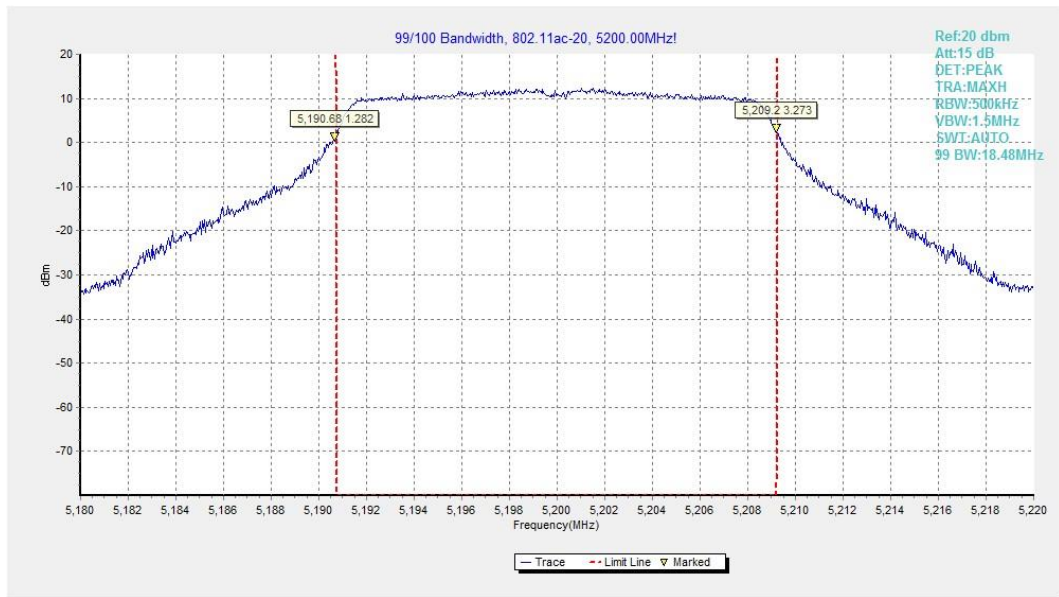
**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**



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



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

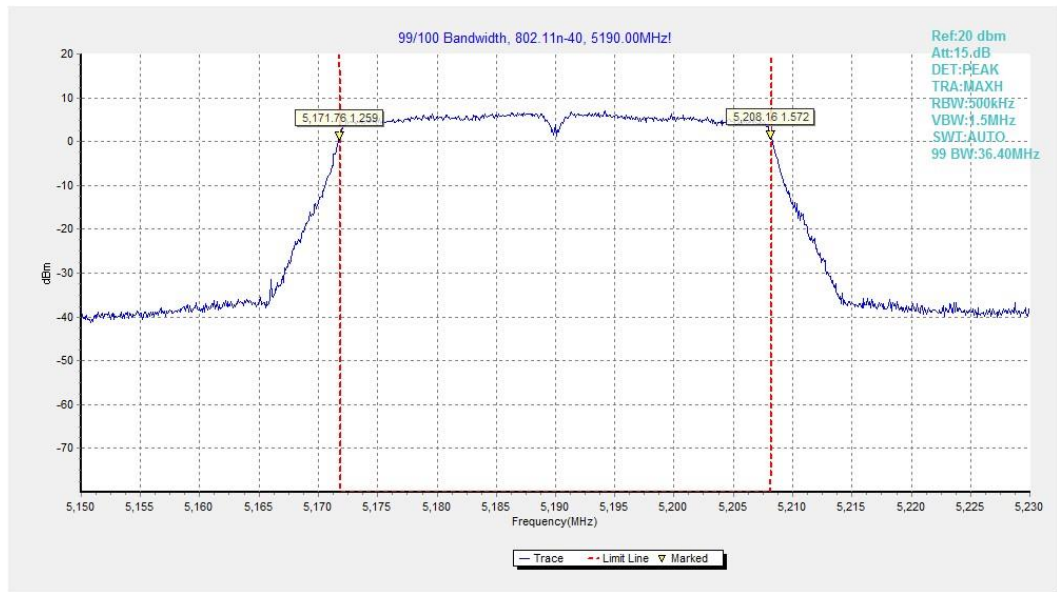


**Fig.64 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**

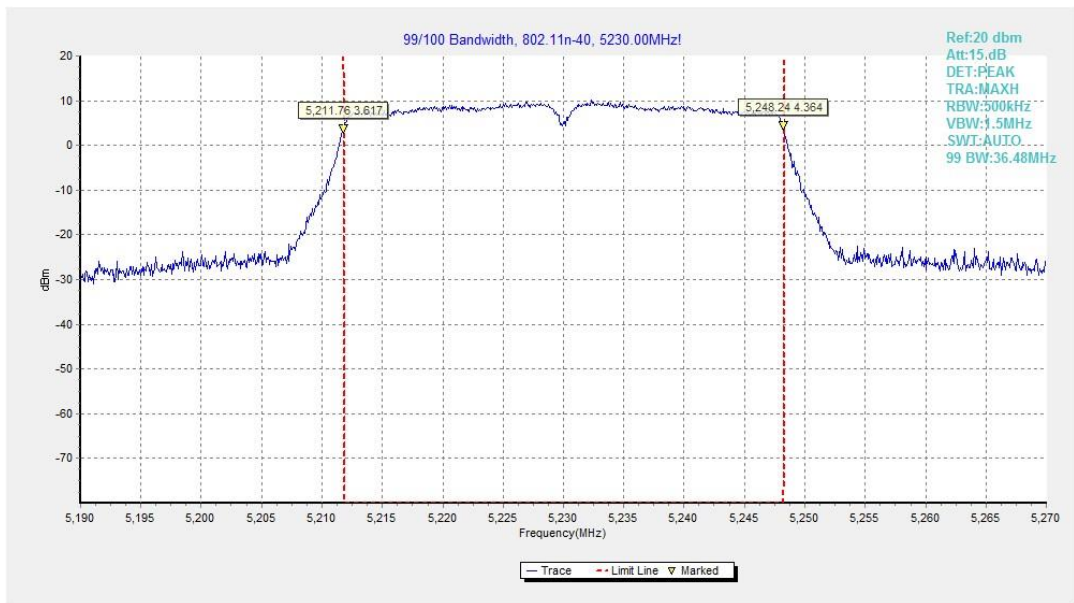


**Fig.65 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**

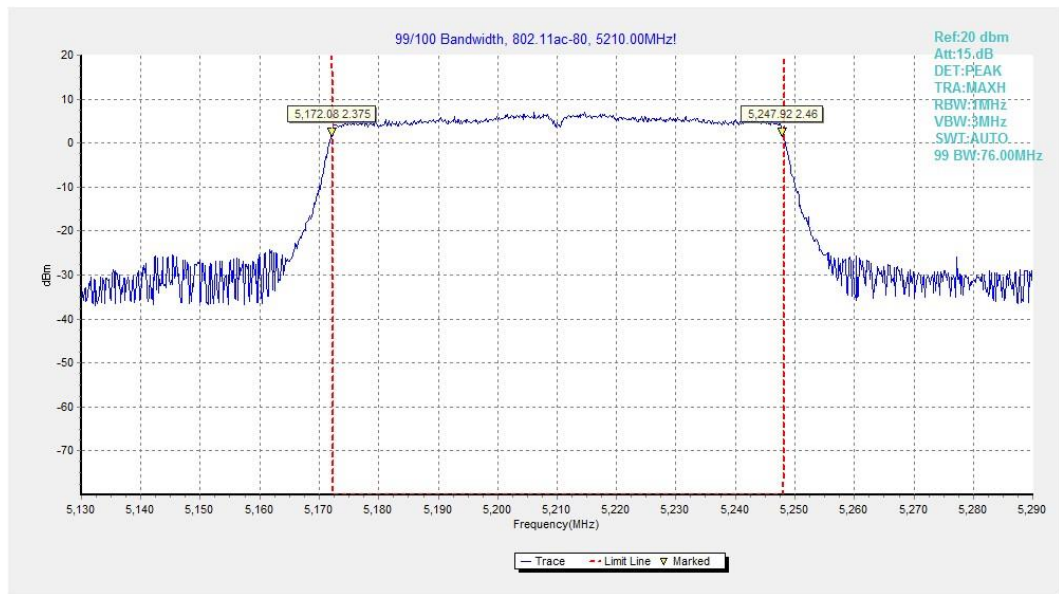




**Fig.66 99% Occupied bandwidth (802.11n-HT40, 5190MHz)**



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



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



## A.10. Power control

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

## ANNEX B: EUT parameters

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

## ANNEX C: Accreditation Certificate



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