

**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
		26.5 GHz ~ 40 GHz	---	P
	48(5240MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	52(5260MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	56(5280MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	64(5320MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	100(5500MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
	120(5600MHz)	30 MHz ~1 GHz	---	P
		1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
		7 GHz ~ 18 GHz	---	P
		18 GHz ~ 26.5 GHz	---	P
		26.5 GHz ~ 40 GHz	---	P
	140(5700MHz)	1 GHz ~ 3 GHz	---	P
		3 GHz ~ 7 GHz	---	P
7 GHz ~ 18 GHz		---	P	

**802.11ac-HT40 mode**

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

**802.11ac-HT80 mode**

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

**Conclusion: PASS**

**Note:**

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

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

The measurement results are obtained as described below:

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

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

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.600	43.80	-23.27	34.26	32.81	54.00	10.20	V
5149.900	43.89	-23.27	34.26	32.90	54.00	10.11	V
10877.600	33.34	-29.88	37.95	25.27	54.00	20.66	H
15540.000	37.33	-24.49	40.15	21.67	54.00	16.67	V
17832.000	38.97	-22.48	41.53	19.91	54.00	15.03	V
17887.200	38.84	-22.59	41.52	19.91	54.00	15.16	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)
5412.700	42.68	-22.41	34.37	30.73	54.00	11.32	V
5360.500	43.20	-22.29	34.35	31.15	54.00	10.80	V
10877.600	33.34	-29.88	37.95	25.27	54.00	20.66	H
15600.000	37.23	-24.52	40.22	21.53	54.00	16.77	V
17835.200	38.81	-22.49	41.53	19.76	54.00	15.19	V
17892.000	38.90	-22.60	41.52	19.98	54.00	15.10	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)
5133.700	42.81	-23.31	34.26	31.87	54.00	11.19	V
5353.600	43.39	-22.29	34.34	31.34	54.00	10.61	V
11396.800	33.75	-29.74	38.16	25.33	54.00	20.25	V
15720.000	37.42	-24.36	40.37	21.42	54.00	16.58	H
17840.000	38.79	-22.50	41.53	19.76	54.00	15.21	V
17897.600	38.84	-22.61	41.52	19.94	54.00	15.16	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)
5137.600	43.97	-23.30	34.26	33.01	54.00	10.03	V
5355.700	44.49	-22.29	34.34	32.44	54.00	9.51	V
10520.000	33.29	-29.65	37.81	25.13	54.00	20.71	V
15780.000	37.65	-24.20	40.44	21.41	54.00	16.35	H
17708.000	39.03	-22.20	41.56	19.67	54.00	14.97	H
17780.000	38.31	-22.36	41.54	19.14	54.00	15.69	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)
5110.600	43.75	-23.40	34.25	32.91	54.00	10.25	V
5372.500	44.19	-22.29	34.35	32.13	54.00	9.81	V
10560.000	32.93	-29.45	37.82	24.55	54.00	21.07	V
15840.000	38.13	-24.06	40.51	21.69	54.00	15.87	H
17832.800	39.37	-22.48	41.53	20.32	54.00	14.63	H
17865.600	39.16	-22.55	41.53	20.19	54.00	14.84	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)
5352.100	44.59	-22.29	34.34	32.53	54.00	9.41	V
5354.800	44.41	-22.29	34.34	32.36	54.00	9.59	V
10640.000	33.80	-29.30	37.86	25.25	54.00	20.20	H
15960.000	38.09	-23.82	40.65	21.25	54.00	15.91	V
17765.600	39.47	-22.33	41.55	20.25	54.00	14.53	H
17892.000	39.27	-22.60	41.52	20.35	54.00	14.73	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)
5448.100	44.45	-22.69	34.38	32.76	54.00	9.55	V
5457.700	44.42	-22.70	34.38	32.73	54.00	9.58	V
11000.000	34.19	-29.87	38.00	26.06	54.00	19.81	V
17756.800	39.48	-22.31	41.55	20.24	54.00	14.52	H
17805.600	39.16	-22.42	41.54	20.04	54.00	14.84	H
17876.800	39.15	-22.57	41.52	20.20	54.00	14.85	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)
5447.800	44.38	-22.69	34.38	32.69	54.00	9.62	V
5454.700	44.35	-22.70	34.38	32.67	54.00	9.65	V
11200.000	33.96	-30.43	38.08	26.31	54.00	20.04	H
17758.400	39.62	-22.31	41.55	20.38	54.00	14.38	H
17813.600	39.15	-22.44	41.54	20.05	54.00	14.85	H
17904.800	39.29	-22.63	41.52	20.40	54.00	14.71	V

## Channel 140

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5361.400	44.41	-22.29	34.35	32.36	48.30	3.89	V
5369.500	44.34	-22.29	34.35	32.28	48.30	3.96	V
11400.000	34.75	-29.72	38.16	26.31	48.30	13.55	H
17839.200	39.37	-22.49	41.53	20.33	48.30	8.93	H
17888.800	39.32	-22.60	41.52	20.40	48.30	8.98	H
17918.400	39.14	-22.66	41.52	20.28	48.30	9.16	V

## Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5353.050	44.61	-22.29	34.34	32.56	48.30	3.69	V
5445.100	44.37	-22.67	34.38	32.66	48.30	3.93	V
11440.000	35.10	-29.47	38.18	26.39	48.30	13.20	H
17160.000	39.57	-22.97	42.01	20.53	48.30	8.73	V
17764.800	39.66	-22.33	41.55	20.44	48.30	8.64	H

17830.400	39.49	-22.48	41.53	20.44	48.30	8.81	V
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**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)
5149.300	44.08	-23.27	34.26	33.09	54.00	9.92	V
5149.900	44.21	-23.27	34.26	33.22	54.00	9.79	V
10907.200	33.75	-29.94	37.96	25.73	54.00	20.25	H
15540.000	37.53	-24.49	40.15	21.87	54.00	16.47	V
17830.400	39.17	-22.48	41.53	20.11	54.00	14.83	V
17905.600	39.20	-22.63	41.52	20.31	54.00	14.80	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)
5143.900	43.04	-23.29	34.26	32.07	54.00	10.96	V
5353.000	43.53	-22.29	34.34	31.47	54.00	10.47	V
11420.800	34.49	-29.59	38.17	25.90	54.00	19.51	V
15600.000	37.64	-24.52	40.22	21.94	54.00	16.36	V
17832.800	39.21	-22.48	41.53	20.16	54.00	14.79	H
17908.000	39.11	-22.63	41.52	20.22	54.00	14.89	V

## Channel 48

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5145.700	42.73	-23.28	34.26	31.76	54.00	11.27	V
5353.900	43.43	-22.29	34.34	31.38	54.00	10.57	V
11268.640	33.65	-30.36	38.11	25.90	54.00	20.35	V
15720.000	37.83	-24.36	40.37	21.82	54.00	16.17	V
17821.600	39.16	-22.46	41.54	20.08	54.00	14.84	V
17947.200	38.92	-22.72	41.51	20.12	54.00	15.08	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)
5140.900	43.91	-23.30	34.26	32.94	54.00	10.09	V
5358.100	44.42	-22.29	34.35	32.36	54.00	9.58	V
10520.000	33.25	-29.65	37.81	25.09	54.00	20.75	H
15780.000	37.59	-24.20	40.44	21.36	54.00	16.41	V
17706.400	38.95	-22.19	41.56	19.58	54.00	15.05	H
17772.800	39.42	-22.35	41.55	20.22	54.00	14.58	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5117.200	43.76	-23.38	34.25	32.89	54.00	10.24	V
5354.200	44.48	-22.29	34.34	32.43	54.00	9.52	V
10560.000	32.85	-29.45	37.82	24.47	54.00	21.15	V
15840.000	38.13	-24.06	40.51	21.69	54.00	15.87	V
17760.800	39.39	-22.32	41.55	20.17	54.00	14.61	V
17826.400	39.38	-22.47	41.53	20.31	54.00	14.62	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)
5357.200	44.52	-22.29	34.34	32.47	54.00	9.48	V
5352.100	44.73	-22.29	34.34	32.68	54.00	9.27	V
10640.000	33.75	-29.30	37.86	25.19	54.00	20.25	H
15960.000	38.03	-23.82	40.65	21.20	54.00	15.97	H
17744.800	39.33	-22.28	41.55	20.06	54.00	14.67	V
17888.000	39.22	-22.59	41.52	20.29	54.00	14.78	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)
5361.100	44.47	-22.29	34.35	32.41	54.00	9.53	V
5368.300	44.35	-22.29	34.35	32.29	54.00	9.65	V
11000.000	34.18	-29.87	38.00	26.06	54.00	19.82	H
17806.000	39.39	-22.42	41.54	20.27	54.00	14.61	H
17868.800	39.29	-22.55	41.53	20.32	54.00	14.71	H
17954.400	39.23	-22.73	41.51	20.45	54.00	14.77	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)
5367.400	44.47	-22.29	34.35	32.41	54.00	9.53	V
5379.100	44.26	-22.29	34.35	32.20	54.00	9.74	V
11200.000	34.09	-30.43	38.08	26.44	54.00	19.91	V
17812.000	39.24	-22.44	41.54	20.15	54.00	14.76	V
17872.800	39.21	-22.56	41.53	20.25	54.00	14.79	H
17958.400	39.19	-22.74	41.51	20.42	54.00	14.81	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)
5354.200	44.66	-22.29	34.34	32.61	48.30	3.64	V
5365.900	44.39	-22.29	34.35	32.33	48.30	3.91	V
11400.000	34.85	-29.72	38.16	26.41	48.30	13.45	V
17816.800	39.29	-22.45	41.54	20.20	48.30	9.01	V
17876.800	39.26	-22.57	41.52	20.30	48.30	9.04	H
17963.200	39.15	-22.75	41.51	20.39	48.30	9.15	V

## Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.900	44.71	-22.29	34.34	32.66	48.30	3.59	V
5437.056	44.39	-22.60	34.38	32.61	48.30	3.91	V
11440.000	35.20	-29.47	38.18	26.48	48.30	13.10	V
17160.000	39.61	-22.97	42.01	20.57	48.30	8.69	H
17773.600	39.70	-22.35	41.54	20.50	48.30	8.60	H
17895.200	39.50	-22.61	41.52	20.59	48.30	8.80	H

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## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.100	45.42	-23.28	34.26	34.44	54.00	8.58	V
5149.900	45.48	-23.27	34.26	34.49	54.00	8.52	V
10380.000	33.04	-29.49	37.66	24.87	54.00	20.96	H
15570.400	37.59	-24.51	40.19	21.91	54.00	16.41	V
17766.400	39.15	-22.33	41.55	19.94	54.00	14.85	H
17897.600	38.98	-22.61	41.52	20.08	54.00	15.02	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)
5149.600	43.35	-23.27	34.26	32.36	54.00	10.65	V
5350.600	43.82	-22.29	34.34	31.77	54.00	10.18	V
10460.000	32.89	-29.49	37.75	24.63	54.00	21.11	H
15690.400	37.90	-24.44	40.33	22.01	54.00	16.10	H
17800.800	38.95	-22.41	41.54	19.82	54.00	15.05	V
17973.600	38.81	-22.77	41.51	20.07	54.00	15.19	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)
5145.400	43.99	-23.28	34.26	33.01	54.00	10.01	V
5354.200	44.65	-22.29	34.34	32.60	54.00	9.35	V
10694.400	33.64	-29.60	37.88	25.36	54.00	20.36	H
15810.400	38.02	-24.12	40.47	21.67	54.00	15.98	V
17778.400	38.40	-22.36	41.54	19.22	54.00	15.60	V
17843.200	39.23	-22.50	41.53	20.20	54.00	14.77	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)
5352.700	45.37	-22.29	34.34	33.32	54.00	8.63	V
5356.900	44.97	-22.29	34.34	32.92	54.00	9.03	V
10620.000	33.21	-29.20	37.85	24.55	54.00	20.79	H
15930.400	38.11	-23.88	40.62	21.37	54.00	15.89	V
17780.000	39.35	-22.36	41.54	20.17	54.00	14.65	V
17846.400	39.07	-22.51	41.53	20.04	54.00	14.93	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)
5459.800	46.88	-22.69	34.38	35.19	54.00	7.12	V
5460.000	47.11	-22.69	34.38	35.42	54.00	6.89	V
11020.000	34.38	-29.83	38.01	26.21	54.00	19.62	H
17824.000	39.42	-22.46	41.53	20.34	54.00	14.58	H
17844.800	39.41	-22.51	41.53	20.38	54.00	14.59	H
17900.800	39.46	-22.62	41.52	20.56	54.00	14.54	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)
5444.800	44.48	-22.66	34.38	32.77	54.00	9.52	V
5350.600	44.57	-22.29	34.34	32.52	54.00	9.43	V
11180.000	33.91	-30.45	38.07	26.28	54.00	20.09	V
16770.400	39.49	-23.01	41.88	20.62	54.00	14.51	V

17742.400	39.64	-22.28	41.55	20.37	54.00	14.36	V
17888.000	39.53	-22.59	41.52	20.60	54.00	14.47	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)
5362.020	44.52	-22.29	34.35	32.47	48.30	3.78	V
5458.350	44.41	-22.69	34.38	32.72	48.30	3.89	V
11340.000	34.72	-30.03	38.14	26.61	48.30	13.58	V
17010.400	39.65	-23.02	42.19	20.48	48.30	8.65	H
17772.000	39.76	-22.35	41.55	20.56	48.30	8.54	H
17832.800	39.59	-22.48	41.53	20.54	48.30	8.70	V

**Channel 142**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5353.600	44.62	-22.29	34.34	32.57	48.30	3.68	V
5457.150	44.38	-22.70	34.38	32.70	48.30	3.92	V
11420.000	35.28	-29.59	38.17	26.71	48.30	13.02	H
17139.600	39.67	-23.00	42.03	20.64	48.30	8.63	H
17782.400	39.66	-22.37	41.54	20.49	48.30	8.64	V
17898.400	39.50	-22.62	41.52	20.59	48.30	8.80	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)
5149.600	44.74	-23.27	34.26	33.75	54.00	9.26	V
5149.900	44.75	-23.27	34.26	33.76	54.00	9.25	V
10729.600	33.75	-29.74	37.89	25.60	54.00	20.25	V
15540.000	37.58	-24.49	40.15	21.92	54.00	16.42	H
17880.000	39.09	-22.58	41.52	20.15	54.00	14.91	V
17966.400	39.06	-22.75	41.51	20.31	54.00	14.94	H

## Channel 40

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.900	43.48	-23.27	34.26	32.49	54.00	10.52	V
5352.100	43.78	-22.29	34.34	31.73	54.00	10.22	V
10896.800	33.81	-29.92	37.96	25.77	54.00	20.19	H
15600.000	37.64	-24.52	40.22	21.94	54.00	16.36	H
17920.000	39.06	-22.66	41.52	20.20	54.00	14.94	V
17979.200	39.08	-22.78	41.50	20.36	54.00	14.92	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)
5149.000	43.27	-23.27	34.26	32.28	54.00	10.73	V
5352.400	44.02	-22.29	34.34	31.97	54.00	9.98	V
10480.000	33.01	-29.57	37.78	24.81	54.00	20.99	H
15720.000	37.62	-24.36	40.37	21.61	54.00	16.38	H
17836.000	38.98	-22.49	41.53	19.94	54.00	15.02	H
17917.600	38.79	-22.65	41.52	19.93	54.00	15.21	V

## Channel 52

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5134.600	44.01	-23.31	34.26	33.06	54.00	9.99	V
5354.800	44.56	-22.29	34.34	32.51	54.00	9.44	V
10728.800	33.94	-29.74	37.89	25.78	54.00	20.06	H
15780.000	37.47	-24.20	40.44	21.23	54.00	16.53	H
17832.000	39.22	-22.48	41.53	20.16	54.00	14.78	H
17942.400	38.76	-22.71	41.51	19.96	54.00	15.24	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)
5145.400	43.91	-23.28	34.26	32.93	54.00	10.09	V
5354.800	44.56	-22.29	34.34	32.50	54.00	9.44	V
11014.400	34.10	-29.84	38.01	25.94	54.00	19.90	H
15840.000	37.90	-24.06	40.51	21.45	54.00	16.10	H
17863.200	39.07	-22.54	41.53	20.08	54.00	14.93	H



17965.600	38.96	-22.75	41.51	20.21	54.00	15.04	H
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## 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)
5351.500	44.56	-22.29	34.34	32.51	54.00	9.44	V
5353.000	44.62	-22.29	34.34	32.56	54.00	9.38	V
11298.400	33.98	-30.22	38.12	26.08	54.00	20.02	V
15898.400	38.10	-23.94	40.58	21.46	54.00	15.90	V
17865.600	39.00	-22.55	41.53	20.02	54.00	15.00	V
17967.200	38.91	-22.76	41.51	20.16	54.00	15.09	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)
5358.400	44.54	-22.29	34.35	32.48	54.00	9.46	V
5366.200	44.38	-22.29	34.35	32.32	54.00	9.62	V
11000.000	34.20	-29.87	38.00	26.07	54.00	19.80	V
17788.000	39.55	-22.38	41.54	20.39	54.00	14.45	V
17836.800	39.55	-22.49	41.53	20.51	54.00	14.45	H
17898.400	39.46	-22.62	41.52	20.56	54.00	14.54	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)
5352.700	44.74	-22.29	34.34	32.69	54.00	9.26	V
5364.700	44.43	-22.29	34.35	32.37	54.00	9.57	V
11200.000	34.17	-30.43	38.08	26.52	54.00	19.83	H
17879.200	39.40	-22.58	41.52	20.45	54.00	14.60	H
17898.400	39.46	-22.62	41.52	20.56	54.00	14.54	H
17948.000	39.09	-22.72	41.51	20.29	54.00	14.91	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)
5353.300	44.60	-22.29	34.34	32.55	48.30	3.70	V
5358.100	44.47	-22.29	34.35	32.41	48.30	3.83	V
11400.000	34.94	-29.72	38.16	26.49	48.30	13.36	V
17837.600	39.52	-22.49	41.53	20.48	48.30	8.78	V
17858.400	39.29	-22.53	41.53	20.30	48.30	9.01	V
17911.200	39.28	-22.64	41.52	20.41	48.30	9.02	H

## Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5358.700	44.57	-22.29	34.35	32.52	48.30	3.73	V
5440.600	44.42	-22.63	34.38	32.67	48.30	3.88	V
11440.000	35.10	-29.47	38.18	26.39	48.30	13.20	H
17160.000	39.69	-22.97	42.01	20.65	48.30	8.61	V
17762.400	39.72	-22.32	41.55	20.50	48.30	8.58	H
17836.000	39.49	-22.49	41.53	20.44	48.30	8.81	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)
5149.600	46.15	-23.27	34.26	35.16	54.00	7.85	V
5148.400	46.00	-23.28	34.26	35.01	54.00	8.00	V
10380.000	33.36	-29.49	37.66	25.20	54.00	20.64	H
15570.400	37.74	-24.51	40.19	22.06	54.00	16.26	V
17704.800	38.87	-22.19	41.56	19.50	54.00	15.13	V
17896.800	39.16	-22.61	41.52	20.25	54.00	14.84	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)
5149.000	43.51	-23.27	34.26	32.53	54.00	10.49	V
5353.000	43.82	-22.29	34.34	31.77	54.00	10.18	V
10460.000	33.25	-29.49	37.75	24.99	54.00	20.75	H
15690.400	38.17	-24.44	40.33	22.28	54.00	15.83	H
17740.000	39.13	-22.27	41.55	19.85	54.00	14.87	H

17829.600	39.24	-22.47	41.53	20.18	54.00	14.76	V
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## 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)
5133.400	43.86	-23.32	34.26	32.92	54.00	10.14	V
5352.400	44.62	-22.29	34.34	32.57	54.00	9.38	V
10884.000	34.25	-29.89	37.95	26.19	54.00	19.75	V
15810.400	37.96	-24.12	40.47	21.61	54.00	16.04	H
17830.400	39.33	-22.48	41.53	20.28	54.00	14.67	V
17902.400	39.28	-22.62	41.52	20.38	54.00	14.72	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)
5351.500	45.55	-22.29	34.34	33.50	54.00	8.45	V
5354.800	45.06	-22.29	34.34	33.00	54.00	8.94	V
10620.000	33.17	-29.20	37.85	24.51	54.00	20.83	V
15930.400	38.14	-23.88	40.62	21.40	54.00	15.86	H
17834.000	39.37	-22.48	41.53	20.32	54.00	14.63	V
17905.600	39.12	-22.63	41.52	20.23	54.00	14.88	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)
5459.500	46.46	-22.69	34.38	34.76	54.00	7.54	V
5460.000	46.69	-22.69	34.38	35.00	54.00	7.31	V
11020.000	34.36	-29.83	38.01	26.18	54.00	19.64	H
16530.400	39.12	-23.21	41.54	20.79	54.00	14.88	V
17763.200	39.71	-22.33	41.55	20.49	54.00	14.29	H
17884.000	39.39	-22.59	41.52	20.45	54.00	14.61	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)
5358.150	44.56	-22.29	34.35	32.51	54.00	9.44	V
5438.250	44.48	-22.61	34.38	32.71	54.00	9.52	V
11180.000	33.79	-30.45	38.07	26.16	54.00	20.21	H
16770.400	39.43	-23.01	41.88	20.56	54.00	14.57	V
17704.000	39.31	-22.19	41.56	19.94	54.00	14.69	V
17899.300	39.47	-22.62	41.52	20.57	54.00	14.53	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)
5354.500	44.63	-22.29	34.34	32.58	48.30	3.67	V
5447.800	44.47	-22.69	34.38	32.78	48.30	3.83	V
11340.000	34.60	-30.03	38.14	26.49	48.30	13.70	H
17010.400	39.59	-23.02	42.19	20.43	48.30	8.71	H
17799.200	39.59	-22.41	41.54	20.46	48.30	8.71	H
17834.400	39.54	-22.48	41.53	20.49	48.30	8.76	V

## Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5358.700	44.57	-22.29	34.35	32.51	48.30	3.73	V
5440.500	44.42	-22.63	34.38	32.67	48.30	3.88	V
11420.000	35.34	-29.59	38.17	26.77	48.30	12.96	V
17129.600	39.75	-23.02	42.04	20.73	48.30	8.55	V
17761.600	39.69	-22.32	41.55	20.46	48.30	8.61	H
17898.400	39.48	-22.62	41.52	20.58	48.30	8.82	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)
5150.000	47.0	-23.3	34.3	35.91	54.0	7.0	V
5149.500	46.8	-23.3	34.3	35.79	54.0	7.2	V
10732.800	34.4	-29.7	37.7	26.36	54.0	19.6	H
15630.400	38.1	-24.5	40.4	22.28	54.0	15.9	V
17856.000	39.2	-22.5	41.3	20.42	54.0	14.8	H
17917.600	39.2	-22.7	41.3	20.61	54.0	14.8	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)
5350.000	51.2	-22.3	34.5	39.02	54.0	2.8	V
5352.400	51.2	-22.3	34.5	39.05	54.0	2.8	V
10580.000	33.3	-29.3	37.6	24.97	54.0	20.7	V
15870.400	38.3	-24.0	40.6	21.69	54.0	15.7	H
17860.800	39.1	-22.5	41.3	20.41	54.0	14.9	H
17922.400	39.1	-22.7	41.3	20.52	54.0	14.9	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)
5457.580	48.8	-22.7	34.6	36.88	54.0	5.3	V
5460.000	49.0	-22.7	34.6	37.16	54.0	5.0	V
11060.000	33.9	-29.9	38.0	25.79	54.0	20.1	V
17831.200	39.5	-22.5	41.3	20.66	54.0	14.5	H
17886.400	39.4	-22.6	41.3	20.74	54.0	14.6	H
17949.600	39.2	-22.7	41.3	20.66	54.0	14.8	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)
5351.800	44.5	-22.3	34.5	32.30	54.0	9.5	V
5441.500	44.5	-22.6	34.6	32.61	54.0	9.5	V
11220.000	33.8	-30.4	38.2	26.08	54.0	20.2	V
17769.600	39.7	-22.3	41.3	20.74	54.0	14.4	V
17877.600	39.4	-22.6	41.3	20.73	54.0	14.6	V
17949.600	39.3	-22.7	41.3	20.74	54.0	14.7	V

## Channel 138

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5353.900	44.5	-22.3	34.5	32.32	48.3	3.8	V
5449.900	44.5	-22.7	34.6	32.61	48.3	3.8	V
11380.000	34.7	-29.8	38.4	26.14	48.3	13.6	V
17836.800	39.5	-22.5	41.3	20.77	48.3	8.8	V
17886.400	39.4	-22.6	41.3	20.76	48.3	8.9	H
17944.000	39.2	-22.7	41.3	20.61	48.3	9.1	H

**PEAK Results:**
**802.11a**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.788	61.13	-23.28	34.26	50.15	74.00	12.87	V
5149.083	59.94	-23.27	34.26	48.96	74.00	14.06	V
10359.950	48.12	-29.67	37.63	40.16	68.30	20.18	H
15539.590	55.02	-24.49	40.15	39.36	74.00	18.98	V
16819.700	59.47	-23.00	41.95	40.52	68.30	8.83	H
17142.000	59.92	-23.00	42.03	40.89	68.30	8.38	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)
5159.000	57.38	-23.25	34.27	46.36	68.30	10.92	H
5241.000	57.52	-23.34	34.30	46.56	68.30	10.78	H
10400.100	48.45	-29.32	37.68	40.08	68.30	19.85	H
15599.800	53.59	-24.52	40.22	37.90	74.00	20.41	H
16771.850	58.12	-23.01	41.88	39.24	68.30	10.18	V
17025.400	59.79	-23.03	42.17	40.65	68.30	8.51	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)
5178.000	57.81	-23.20	34.27	46.73	74.00	16.19	V
5287.000	58.56	-22.75	34.32	47.00	74.00	15.44	V
10479.850	47.70	-29.57	37.78	39.50	68.30	20.60	H
15720.250	54.16	-24.36	40.37	38.15	74.00	19.84	H
16674.500	59.20	-23.21	41.75	40.66	68.30	9.10	H
17119.450	59.92	-23.03	42.06	40.90	68.30	8.38	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)
5202.600	57.45	-23.25	34.28	46.41	74.00	16.55	V
5320.600	59.70	-22.47	34.33	47.84	74.00	14.30	V
10520.000	46.97	-29.65	37.81	38.81	68.30	21.33	V
15780.200	55.26	-24.20	40.44	39.02	74.00	18.74	H
16948.950	60.33	-23.01	42.13	41.21	68.30	7.97	V
17474.750	59.56	-23.07	41.63	41.00	68.30	8.74	V

## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5221.800	57.96	-23.33	34.29	46.99	68.30	10.34	H
5342.400	59.62	-22.30	34.34	47.58	68.30	8.67	H
10560.150	47.97	-29.45	37.82	39.59	68.30	20.33	H
15840.150	54.73	-24.06	40.51	38.28	74.00	19.27	V
16781.200	59.36	-22.99	41.90	40.46	68.30	8.94	H
17355.400	59.05	-22.93	41.77	40.22	68.30	9.24	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)
5350.515	62.70	-22.29	34.34	50.65	74.00	11.30	V
5350.636	53.71	-22.29	34.34	41.66	74.00	20.29	H
10639.900	48.87	-29.30	37.86	40.31	74.00	25.13	H
15960.050	55.10	-23.82	40.65	38.26	74.00	18.90	H
16941.800	59.57	-23.01	42.12	40.46	68.30	8.73	V
17569.900	59.74	-22.44	41.59	40.59	68.30	8.56	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)
5457.700	59.85	-22.70	34.38	48.16	74.00	14.15	V
5459.410	60.62	-22.69	34.38	48.93	74.00	13.38	V
11000.150	59.41	-29.87	38.00	51.28	74.00	14.59	V
16500.150	57.15	-23.16	41.50	38.82	68.30	11.15	V
16769.650	59.60	-23.01	41.88	40.73	68.30	8.70	V
17153.000	59.74	-22.98	42.01	40.71	68.30	8.56	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)
5525.600	58.99	-22.62	34.45	47.17	68.30	9.31	H
5730.200	59.55	-22.98	34.82	47.70	68.30	8.75	V
11199.800	48.63	-30.43	38.08	40.97	74.00	25.37	V
16799.900	57.41	-23.00	41.92	38.49	68.30	10.89	H
16931.900	59.62	-23.01	42.11	40.52	68.30	8.68	V
17132.100	59.40	-23.01	42.04	40.38	68.30	8.90	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)
5725.988	62.22	-22.98	34.82	50.38	68.30	6.08	V
5726.675	61.64	-22.98	34.82	49.80	68.30	6.66	H
11400.000	48.33	-29.72	38.16	39.89	74.00	25.67	V
17100.200	56.93	-23.04	42.08	37.89	68.30	11.37	V
17206.900	58.33	-22.89	41.95	39.27	68.30	9.97	V
17391.150	58.66	-23.02	41.73	39.96	68.30	9.63	H

## Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5680.600	59.29	-22.86	34.73	47.42	68.30	9.01	H
5744.600	59.29	-22.95	34.85	47.39	68.30	9.01	H
11440.150	48.89	-29.46	38.18	40.17	74.00	25.11	V
16720.150	59.05	-23.11	41.81	40.36	68.30	9.25	V
17160.150	56.83	-22.97	42.01	37.79	68.30	11.47	V

17408.200	59.73	-23.06	41.71	41.08	68.30	8.57	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)
5142.135	60.35	-23.29	34.26	49.39	74.00	13.65	H
5149.275	60.52	-23.27	34.26	49.53	74.00	13.48	H
10359.950	49.98	-29.67	37.63	42.01	68.30	18.32	V
15539.850	55.46	-24.49	40.15	39.80	74.00	18.54	V
16703.100	59.36	-23.15	41.79	40.72	68.30	8.94	V
16931.350	59.45	-23.01	42.11	40.35	68.30	8.85	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)
5150.200	57.88	-23.27	34.26	46.88	68.30	10.42	V
5240.400	58.16	-23.35	34.30	47.22	68.30	10.14	H
10400.100	49.04	-29.32	37.68	40.67	68.30	19.26	V
15599.800	54.74	-24.52	40.22	39.04	74.00	19.26	V
16899.450	60.60	-23.01	42.06	41.55	68.30	7.70	H
17266.850	59.53	-22.80	41.88	40.46	68.30	8.77	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)
5169.600	57.19	-23.22	34.27	46.14	74.00	16.81	H
5317.800	57.19	-22.49	34.33	45.35	74.00	16.81	V
10479.850	47.85	-29.57	37.78	39.64	68.30	20.45	H
15720.250	54.60	-24.36	40.37	38.59	74.00	19.40	V
16807.050	59.38	-23.00	41.93	40.45	68.30	8.91	H
16936.300	59.11	-23.01	42.11	40.00	68.30	9.19	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)
5223.400	58.61	-23.33	34.29	47.65	74.00	15.39	H
5328.800	59.25	-22.41	34.33	47.32	74.00	14.75	H
10520.000	47.70	-29.65	37.81	39.54	68.30	20.60	V
15780.000	54.41	-24.20	40.44	38.17	74.00	19.59	H
16788.900	59.87	-23.00	41.91	40.96	68.30	8.43	V
17280.600	59.12	-22.78	41.86	40.03	68.30	9.18	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)
5239.600	58.91	-23.36	34.30	47.97	68.30	9.39	V
5322.400	59.66	-22.46	34.33	47.79	68.30	8.64	H
10560.150	48.49	-29.45	37.82	40.11	68.30	19.81	V
15840.150	54.82	-24.06	40.51	38.37	74.00	19.18	H
16761.950	59.13	-23.03	41.87	40.28	68.30	9.17	H
17496.200	59.21	-22.93	41.60	40.53	68.30	9.09	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)
5369.955	60.24	-22.29	34.35	48.18	74.00	13.76	H
5372.831	60.51	-22.29	34.35	48.45	74.00	13.49	V
10639.900	47.59	-29.30	37.86	39.03	74.00	26.41	H
15960.050	56.12	-23.82	40.65	39.29	74.00	17.88	V
16697.600	59.80	-23.16	41.78	41.18	68.30	8.50	H
17115.600	59.42	-23.04	42.06	40.40	68.30	8.88	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)
5458.750	59.77	-22.69	34.38	48.08	74.00	14.23	V
5459.350	59.91	-22.69	34.38	48.22	74.00	14.09	H
11000.150	48.93	-29.87	38.00	40.80	74.00	25.07	H
16500.150	57.01	-23.16	41.50	38.67	68.30	11.29	V
16706.400	58.60	-23.14	41.79	39.95	68.30	9.70	H
16888.450	58.84	-23.01	42.05	39.80	68.30	9.46	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)
5531.800	59.29	-22.62	34.46	47.45	68.30	9.01	V
5686.600	58.88	-22.87	34.75	47.01	68.30	9.41	H
11199.800	49.02	-30.43	38.08	41.37	74.00	24.98	H
16799.900	56.57	-23.00	41.92	37.64	68.30	11.73	V
16914.300	59.66	-23.01	42.08	40.59	68.30	8.64	H
17074.900	49.71	-23.03	42.11	30.63	68.30	18.59	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)
5727.762	60.48	-22.97	34.81	49.49	68.30	7.81	H
5731.738	59.22	-22.95	34.85	48.57	68.30	9.08	V
11400.000	48.98	-29.72	38.16	40.54	74.00	25.02	H
17100.200	57.41	-23.04	42.08	38.37	68.30	10.89	V
17230.000	58.47	-22.86	41.92	39.40	68.30	9.83	H
17391.150	59.22	-23.02	41.73	40.51	68.30	9.08	V

## Channel 144

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5686.800	58.87	-22.88	34.75	47.00	68.30	9.43	H
5740.250	60.07	-22.96	34.84	48.19	68.30	8.23	V
11440.150	49.53	-29.46	38.18	40.81	74.00	24.47	H
16713.550	59.41	-23.13	41.80	40.74	68.30	8.89	V
17160.150	56.85	-22.97	42.01	37.82	68.30	11.45	H

17617.750	59.38	-22.12	41.58	39.93	68.30	8.92	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)
5148.733	63.13	-23.27	34.26	52.15	74.00	10.87	H
5149.975	63.00	-23.27	34.26	52.01	74.00	11.00	H
10379.750	49.00	-29.50	37.66	40.84	68.30	19.30	H
15570.100	55.52	-24.50	40.19	39.84	74.00	18.48	V
16908.250	59.80	-23.01	42.07	40.74	68.30	8.50	H
17155.200	59.60	-22.98	42.01	40.56	68.30	8.70	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)
5169.600	58.05	-23.22	34.27	47.00	74.00	15.95	H
5329.600	58.37	-22.40	34.33	46.43	74.00	15.63	V
10460.050	48.45	-29.49	37.75	40.18	68.30	19.85	V
15690.000	55.25	-24.44	40.33	39.36	74.00	18.75	H
16892.300	59.75	-23.01	42.05	40.70	68.30	8.55	H
17540.750	59.48	-22.63	41.59	40.52	68.30	8.82	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5199.600	58.85	-23.24	34.28	47.81	74.00	15.15	H
5340.600	60.30	-22.31	34.34	48.28	74.00	13.70	V
10539.800	47.46	-29.55	37.82	39.19	68.30	20.84	H
15809.900	54.48	-24.12	40.47	38.13	74.00	19.52	H
16744.350	58.66	-23.06	41.84	39.87	68.30	9.64	H
16915.950	59.33	-23.01	42.08	40.26	68.30	8.97	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)
5352.877	61.76	-22.29	34.34	49.71	74.00	12.24	V
5354.578	62.57	-22.29	34.34	50.52	74.00	11.43	H
10620.100	47.08	-29.20	37.85	38.43	74.00	26.92	H
15929.400	55.79	-23.88	40.62	39.06	74.00	18.21	V
16760.300	58.61	-23.03	41.87	39.77	68.30	9.69	V
17048.500	57.85	-23.03	42.14	38.74	68.30	10.45	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)
5459.140	66.59	-22.69	34.38	54.90	74.00	7.41	H
5459.245	66.37	-22.69	34.38	54.68	74.00	7.63	H
11019.500	48.01	-29.83	38.01	39.83	74.00	25.99	V
16529.850	58.62	-23.21	41.54	40.29	68.30	9.68	H
16718.500	59.42	-23.12	41.81	40.73	68.30	8.88	H
17073.800	59.02	-23.03	42.11	39.94	68.30	9.28	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)
5511.600	59.11	-22.63	34.42	47.31	68.30	9.19	H
5651.600	59.45	-22.84	34.68	47.61	68.30	8.85	H
11180.000	48.36	-30.45	38.07	40.74	74.00	25.64	H
16770.200	57.39	-23.01	41.88	38.51	68.30	10.91	H
16912.100	59.28	-23.01	42.08	40.21	68.30	9.02	V
17394.450	59.47	-23.03	41.73	40.77	68.30	8.83	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)
5726.488	61.76	-22.98	34.82	49.92	68.30	6.54	V
5728.000	60.81	-22.98	34.82	48.97	68.30	7.49	V
11340.050	48.46	-30.03	38.14	40.35	74.00	25.54	V
16720.150	59.18	-23.11	41.81	40.48	68.30	9.12	H
17010.000	56.39	-23.02	42.19	37.23	68.30	11.91	H
17418.100	59.49	-23.08	41.70	40.87	68.30	8.81	V

### Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5651.600	60.39	-22.84	34.68	48.55	68.30	7.91	V
5745.600	63.43	-22.95	34.85	51.52	68.30	4.87	V
11419.800	49.55	-29.59	38.17	40.97	74.00	24.45	V
16670.650	59.45	-23.22	41.74	40.93	68.30	8.85	H
17129.900	56.78	-23.02	42.04	37.75	68.30	11.52	H
17300.950	59.66	-22.81	41.84	40.63	68.30	8.63	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)
5145.581	62.13	-23.28	34.26	51.16	74.00	11.87	V
5147.227	61.76	-23.28	34.26	50.77	74.00	12.24	H
10359.950	48.29	-29.67	37.63	40.33	68.30	20.01	H
15539.850	54.93	-24.49	40.15	39.27	74.00	19.07	H
16924.750	59.39	-23.01	42.10	40.30	68.30	8.91	V
17188.200	58.63	-22.92	41.97	39.58	68.30	9.67	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)
5156.200	58.37	-23.26	34.26	47.36	68.30	9.93	H
5239.600	59.23	-23.36	34.30	48.29	68.30	9.07	V
10400.100	47.75	-29.32	37.68	39.38	68.30	20.55	V
15599.800	53.41	-24.52	40.22	37.71	74.00	20.59	H
16841.700	59.97	-23.00	41.98	40.99	68.30	8.33	V
17142.550	58.42	-23.00	42.03	39.39	68.30	9.88	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)
5177.200	57.51	-23.20	34.27	46.43	74.00	16.49	V
5298.000	58.38	-22.65	34.32	46.71	74.00	15.62	H
10479.850	48.18	-29.57	37.78	39.98	68.30	20.12	V
15720.250	55.53	-24.36	40.37	39.53	74.00	18.47	H
16915.950	59.00	-23.01	42.08	39.93	68.30	9.30	V
17133.750	59.99	-23.01	42.04	40.96	68.30	8.31	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)
5207.200	58.18	-23.27	34.29	47.16	74.00	15.82	V
5320.800	59.53	-22.47	34.33	47.67	74.00	14.47	H
10520.000	49.54	-29.65	37.81	41.38	68.30	18.76	H
15780.200	55.60	-24.20	40.44	39.36	74.00	18.40	H
16842.250	59.08	-23.00	41.98	40.10	68.30	9.22	V
17101.850	60.44	-23.04	42.08	41.41	68.30	7.86	V



## Channel 56

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5206.000	58.50	-23.26	34.28	47.47	68.30	9.80	V
5339.400	59.72	-22.32	34.34	47.70	68.30	8.58	H
10560.150	46.72	-29.45	37.82	38.35	68.30	21.58	H
15840.150	55.06	-24.06	40.51	38.61	74.00	18.94	V
16868.540	59.48	-23.00	42.02	40.47	68.30	8.82	H
16986.900	59.41	-23.02	42.18	40.25	68.30	8.88	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)
5350.164	63.70	-22.29	34.34	51.65	74.00	10.30	H
5353.026	62.96	-22.29	34.34	50.91	74.00	11.04	H
10639.900	48.62	-29.30	37.86	40.07	74.00	25.38	H
15960.050	55.54	-23.82	40.65	38.71	74.00	18.46	V
16814.750	58.71	-23.00	41.94	39.77	68.30	9.59	V
17096.900	59.69	-23.04	42.08	40.64	68.30	8.61	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)
5454.850	60.23	-22.70	34.38	48.54	74.00	13.77	H
5459.575	61.37	-22.69	34.38	49.68	74.00	12.63	V
11000.150	47.70	-29.87	38.00	39.57	74.00	26.30	H
16500.150	57.59	-23.16	41.50	39.26	68.30	10.70	H
16725.650	58.71	-23.10	41.82	39.99	68.30	9.59	V
16962.150	58.82	-23.01	42.15	39.68	68.30	9.48	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)
5542.000	59.82	-22.61	34.48	47.95	68.30	8.48	H
5718.400	59.35	-22.96	34.80	47.51	68.30	8.95	V
11199.800	47.50	-30.43	38.08	39.84	74.00	26.50	H
16799.900	56.18	-23.00	41.92	37.25	68.30	12.12	V
17203.600	58.96	-22.90	41.95	39.91	68.30	9.34	H

17413.150	58.93	-23.07	41.70	40.30	68.30	9.37	H
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**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)
5725.750	63.01	-22.98	34.82	51.17	68.30	5.29	H
5727.375	62.86	-22.98	34.82	51.03	68.30	5.44	H
11400.000	48.91	-29.72	38.16	40.47	74.00	25.09	H
17100.200	57.35	-23.04	42.08	38.31	68.30	10.95	H
17231.100	58.40	-22.85	41.92	39.33	68.30	9.90	H
17395.550	59.25	-23.03	41.72	40.55	68.30	9.05	H

**Channel 144**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5687.800	59.43	-22.88	34.75	47.56	68.30	8.87	V
5744.800	59.46	-22.95	34.85	47.56	68.30	8.84	H
11440.150	49.45	-29.46	38.18	40.74	74.00	24.55	V
16479.250	59.31	-23.13	41.47	40.98	68.30	8.98	H
17160.150	56.77	-22.97	42.01	37.74	68.30	11.52	V
17368.600	59.68	-22.97	41.76	40.89	68.30	8.62	H

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**Channel 38**

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.680	63.57	-23.28	34.26	52.59	74.00	10.43	V
5149.485	63.72	-23.27	34.26	52.73	74.00	10.28	V
10379.750	47.80	-29.50	37.66	39.64	68.30	20.50	H
15570.100	54.41	-24.50	40.19	38.72	74.00	19.59	V
16815.300	59.18	-23.00	41.94	40.23	68.30	9.12	H
17468.700	59.66	-23.11	41.64	41.14	68.30	8.64	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)
5162.000	57.77	-23.24	34.27	46.74	74.00	16.23	H
5291.600	58.74	-22.70	34.32	47.12	74.00	15.26	V
10460.050	46.83	-29.49	37.75	38.56	68.30	21.47	H
15690.000	55.27	-24.44	40.33	39.37	74.00	18.73	H
16816.950	59.15	-23.00	41.95	40.20	68.30	9.15	H
17482.450	60.14	-23.02	41.62	41.54	68.30	8.16	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5197.000	58.98	-23.23	34.28	47.92	74.00	15.02	H
5335.000	61.78	-22.36	34.34	49.80	74.00	12.22	V
10539.800	49.08	-29.55	37.82	40.82	68.30	19.22	H
15809.900	54.01	-24.12	40.47	37.66	74.00	19.99	V
16683.300	58.62	-23.19	41.76	40.05	68.30	9.68	V
17083.700	58.94	-23.04	42.10	39.88	68.30	9.36	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)
5351.973	61.78	-22.29	34.34	49.73	74.00	12.22	V
5353.134	61.97	-22.29	34.34	49.91	74.00	12.03	H
10620.100	47.60	-29.20	37.85	38.94	74.00	26.40	H
15929.800	54.47	-23.88	40.62	37.73	74.00	19.53	V
16651.400	59.68	-23.26	41.71	41.22	68.30	8.62	V
17010.550	58.48	-23.02	42.19	39.32	68.30	9.82	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)
5459.110	65.25	-22.69	34.38	53.56	74.00	8.75	H
5458.350	62.84	-22.69	34.38	51.15	74.00	11.16	V
11019.950	49.19	-29.83	38.01	41.02	74.00	24.81	H
16529.850	56.91	-23.21	41.54	38.58	68.30	11.38	V
16609.600	59.03	-23.34	41.66	40.71	68.30	9.27	V

17101.300	59.26	-23.04	42.08	40.22	68.30	9.04	H
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## 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)
5526.600	60.15	-22.62	34.45	48.32	68.30	8.15	H
5641.000	61.58	-22.84	34.66	49.76	68.30	6.72	V
11180.000	49.12	-30.45	38.07	41.49	74.00	24.88	H
16770.200	56.62	-23.01	41.88	37.75	68.30	11.68	V
16915.950	60.42	-23.01	42.08	41.35	68.30	7.88	H
17032.000	59.73	-23.03	42.16	40.60	68.30	8.57	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)
5727.350	61.91	-22.98	34.82	50.08	68.30	6.38	V
5729.725	61.60	-22.98	34.82	49.76	68.30	6.70	V
11340.050	50.98	-30.03	38.14	42.87	74.00	23.02	V
16900.550	59.94	-23.01	42.06	40.88	68.30	8.36	H
17010.000	56.08	-23.02	42.19	36.91	68.30	12.22	V
17359.800	60.33	-22.95	41.77	41.51	68.30	7.97	H

## Channel 142

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5642.000	61.72	-22.84	34.66	49.90	68.30	6.58	H
5748.800	60.77	-22.94	34.86	48.85	68.30	7.53	H
11419.800	49.27	-29.59	38.17	40.70	74.00	24.73	V
16879.650	59.53	-23.00	42.03	40.50	68.30	8.77	H
17129.900	57.21	-23.02	42.04	38.19	68.30	11.09	V
17325.700	59.70	-22.86	41.81	40.76	68.30	8.60	V

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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)
5116.463	63.4	-23.4	34.3	52.51	74.0	10.6	H
5146.160	63.9	-23.3	34.3	52.86	74.0	10.1	H
10419.000	48.8	-29.3	37.5	40.55	68.3	19.5	V
15630.050	54.4	-24.5	40.4	38.59	74.0	19.6	H
16699.800	59.2	-23.2	41.5	40.80	68.3	9.1	V
17110.650	59.7	-23.0	41.6	41.18	68.3	8.6	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)
5351.771	70.1	-22.3	34.5	57.93	74.0	3.9	H
5353.553	69.0	-22.3	34.5	56.76	74.0	5.0	V
10579.950	49.7	-29.3	37.6	41.41	68.3	18.6	V
15869.850	55.7	-24.0	40.6	39.01	74.0	18.3	H
16820.250	59.7	-23.0	41.6	41.12	68.3	8.6	V
17084.800	59.0	-23.0	41.6	40.38	68.3	9.3	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)
5457.835	68.5	-22.7	34.6	56.63	74.0	5.5	V
5455.165	68.2	-22.7	34.6	56.35	74.0	5.8	V
11060.100	49.1	-29.9	38.0	40.98	74.0	24.9	V
16589.800	57.3	-23.3	41.5	39.18	68.3	11.0	H
16911.000	59.7	-23.0	41.6	41.02	68.3	8.6	H
17291.600	60.1	-22.8	41.4	41.45	68.3	8.2	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)
5728.238	60.1	-23.0	34.9	48.19	74.0	13.9	V
5733.675	60.1	-23.0	34.9	48.18	74.0	13.9	H
11220.150	48.9	-30.4	38.2	41.10	74.0	25.1	V
16830.150	57.2	-23.0	41.6	38.62	68.3	11.1	H
17223.950	59.8	-22.9	41.5	41.21	68.3	8.5	H
17429.650	58.8	-23.1	41.3	40.61	68.3	9.5	H

## Channel 138

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5595.600	66.9	-22.8	34.7	54.97	68.3	1.4	H
5736.450	61.6	-23.0	34.9	49.70	68.3	6.7	V
11380.200	49.7	-29.8	38.4	41.18	74.0	24.3	H
17069.950	56.7	-23.0	41.6	38.07	68.3	11.6	V
17213.500	58.4	-22.9	41.5	39.82	68.3	9.9	H
17426.900	59.2	-23.1	41.3	41.05	68.3	9.1	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)

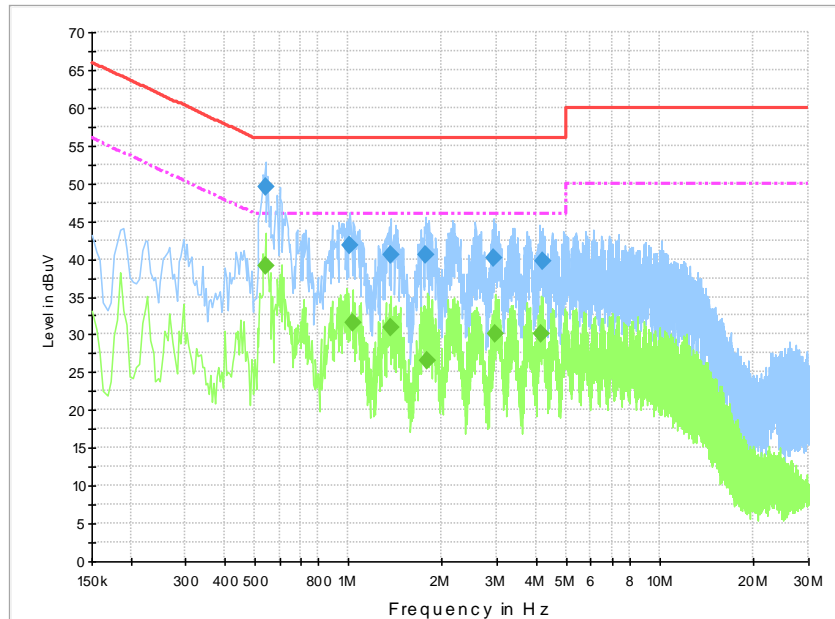
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger AE5		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.58	Fig.59	<b>P</b>
0.5 to 5	46			
5 to 30	50			

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 (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.541500	49.6	1000.0	9.000	On	L1	19.8	6.4	56.0
1.014000	41.8	1000.0	9.000	On	L1	19.6	14.2	56.0
1.365000	40.5	1000.0	9.000	On	L1	19.6	15.5	56.0
1.774500	40.5	1000.0	9.000	On	L1	19.7	15.5	56.0
2.926500	40.0	1000.0	9.000	On	L1	19.6	16.0	56.0
4.209000	39.6	1000.0	9.000	On	L1	19.6	16.4	56.0

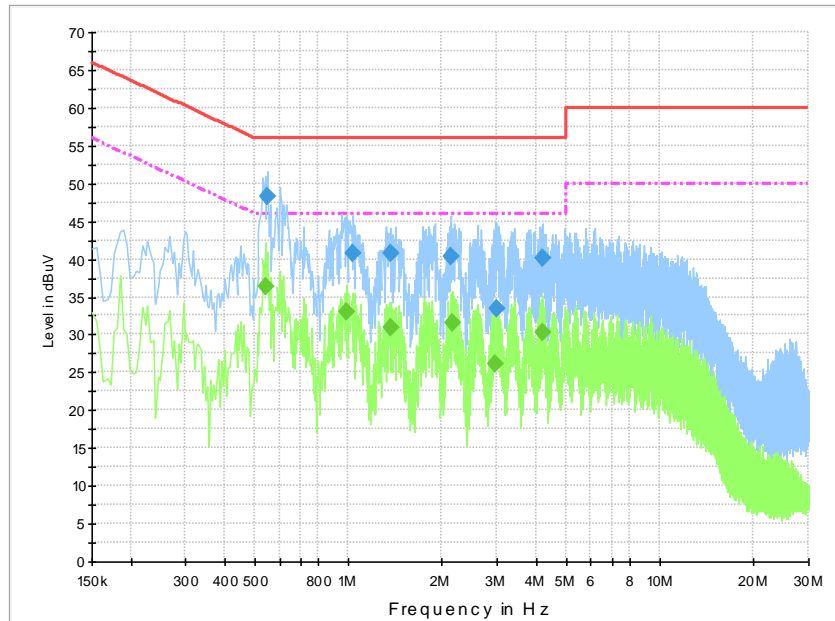
**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.541500	39.2	1000.0	9.000	On	L1	19.8	6.8	46.0
1.032000	31.6	1000.0	9.000	On	L1	19.6	14.4	46.0
1.365000	31.0	1000.0	9.000	On	L1	19.6	15.0	46.0
1.797000	26.5	1000.0	9.000	On	N	19.6	19.5	46.0
2.949000	30.1	1000.0	9.000	On	L1	19.6	15.9	46.0
4.150500	30.1	1000.0	9.000	On	L1	19.7	15.9	46.0

Note2: The measurement results showed here are worst cases.



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 (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.550500	48.2	1000.0	9.000	On	L1	19.8	7.8	56.0
1.032000	40.8	1000.0	9.000	On	L1	19.6	15.2	56.0
1.365000	40.7	1000.0	9.000	On	L1	19.6	15.3	56.0
2.125500	40.4	1000.0	9.000	On	L1	19.7	15.6	56.0
3.012000	33.5	1000.0	9.000	On	N	19.6	22.5	56.0
4.182000	40.1	1000.0	9.000	On	L1	19.6	15.9	56.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.541500	36.3	1000.0	9.000	On	N	19.8	9.7	46.0
0.991500	33.0	1000.0	9.000	On	L1	19.7	13.0	46.0
1.374000	30.9	1000.0	9.000	On	L1	19.6	15.1	46.0
2.157000	31.5	1000.0	9.000	On	L1	19.7	14.5	46.0
2.958000	26.1	1000.0	9.000	On	N	19.6	19.9	46.0
4.200000	30.2	1000.0	9.000	On	L1	19.6	15.8	46.0

Note2: The measurement results showed here are worst cases.

### A.8. 99% Occupied bandwidth

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

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

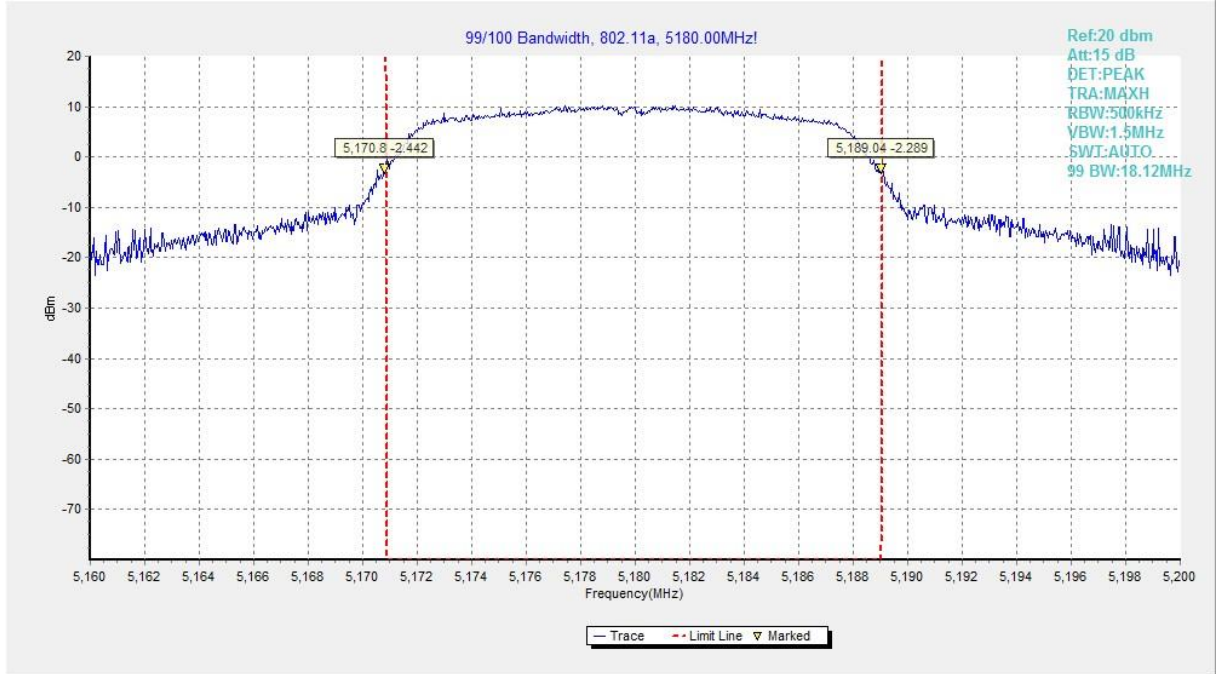
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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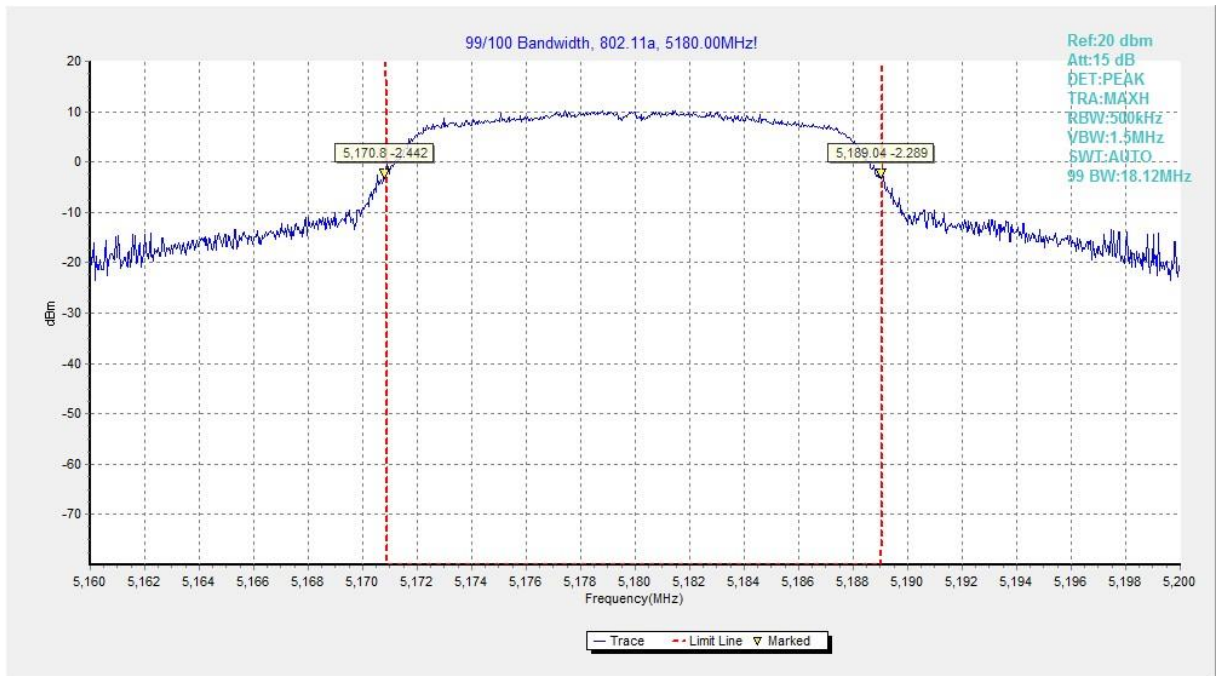
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
802.11a	5180 MHz	Fig.60	18.12	P
	5200 MHz	Fig.61	18.20	P
	5240 MHz	Fig.62		P
802.11ac HT20	5180 MHz	Fig.63	18.76	P
	5200 MHz	Fig.64	18.72	P
	5240 MHz	Fig.65	18.72	P
802.11ac HT40	5190 MHz	Fig.66	36.64	P
	5230 MHz	Fig.67	36.64	P
802.11ac HT80	5210 MHz	Fig.68	76.00	P

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

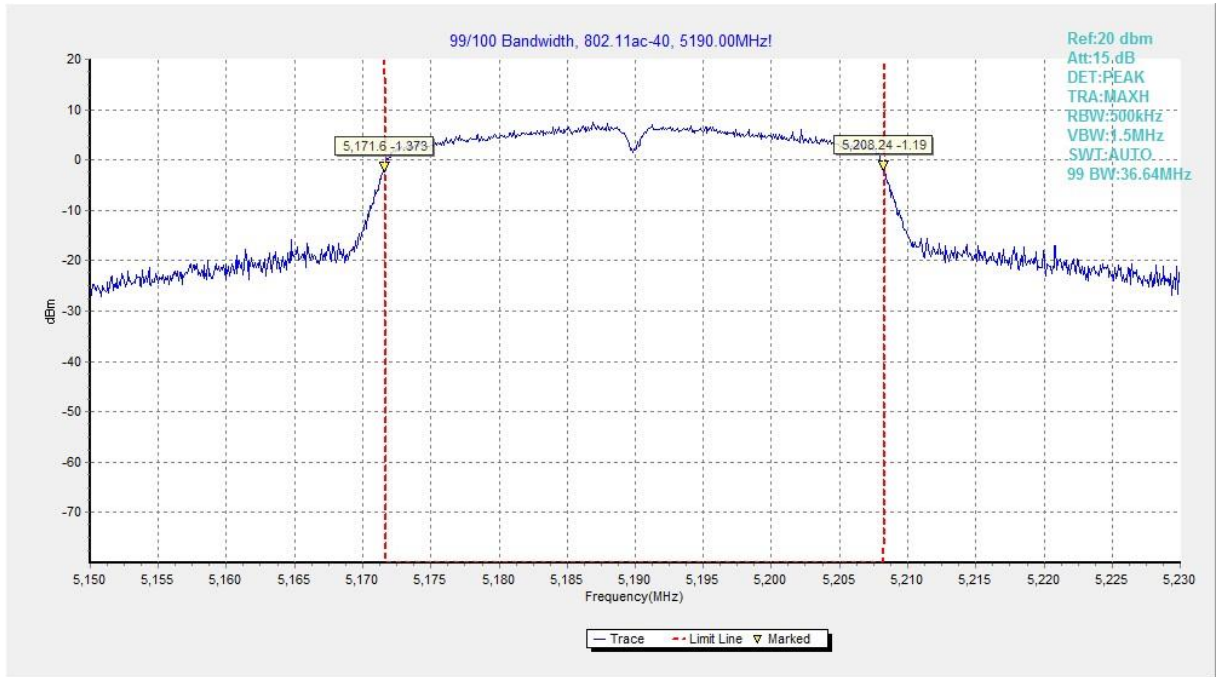


**Fig.60 99% Occupied bandwidth (802.11a, 5180MHz)**

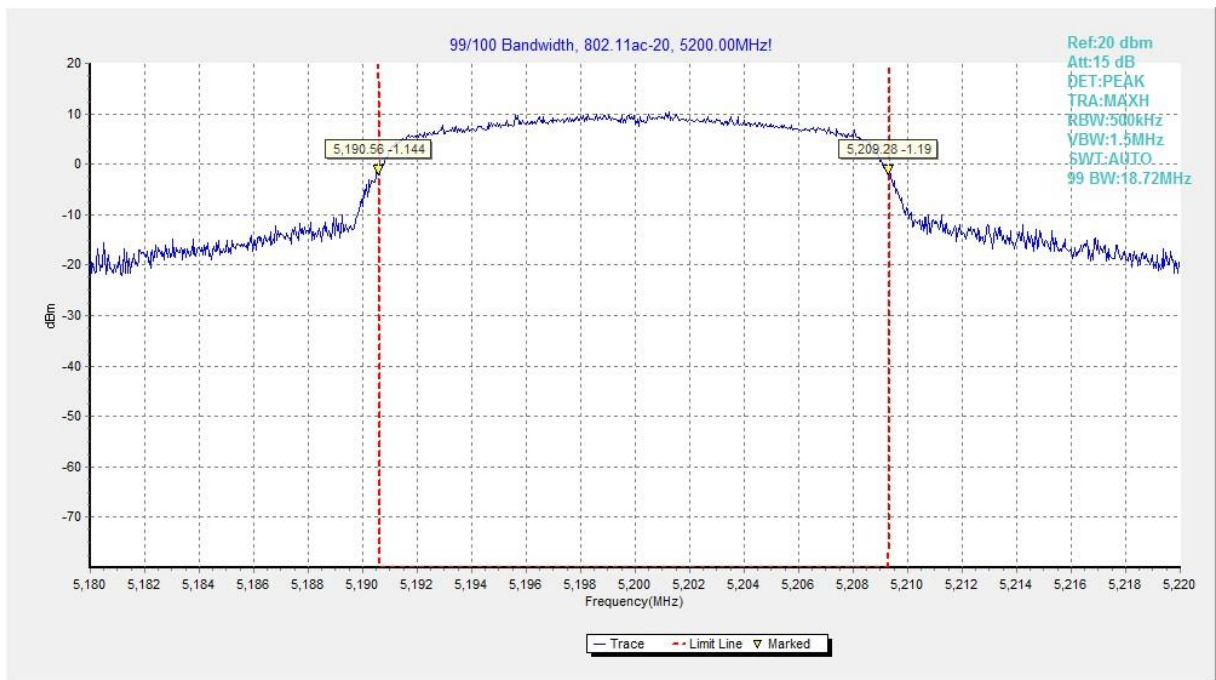


**Fig.61 99% Occupied bandwidth (802.11a, 5200MHz)**

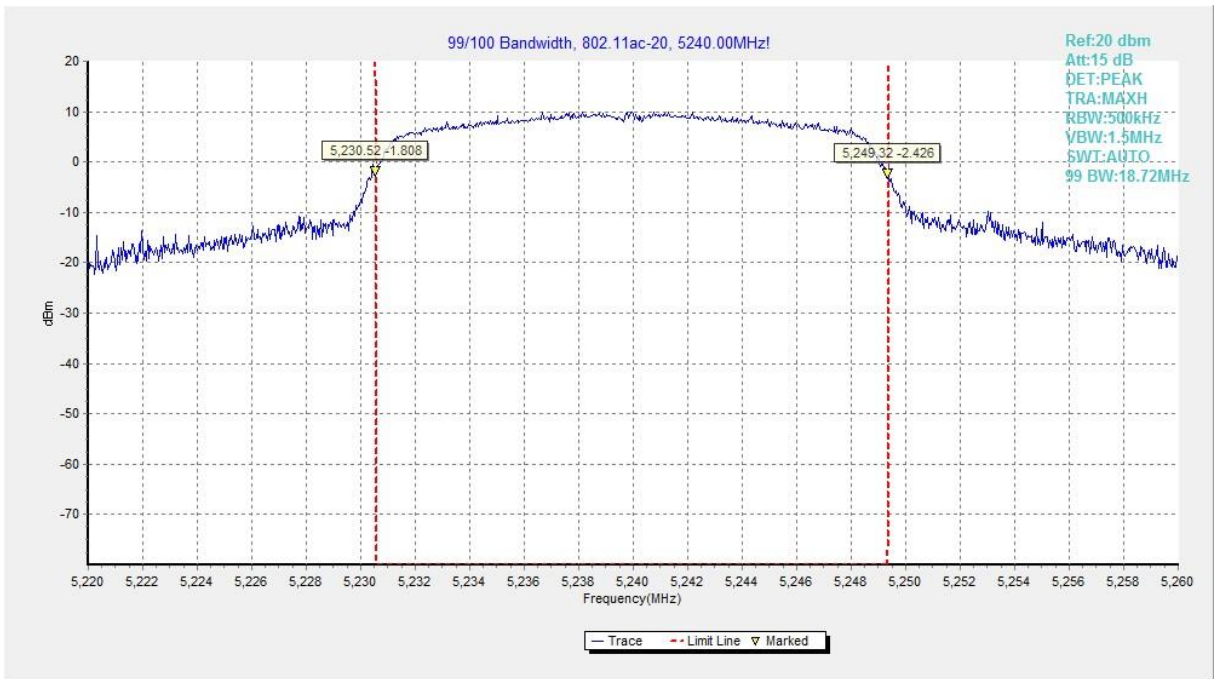
**Fig.62 99% Occupied bandwidth (802.11a, 5240MHz)**



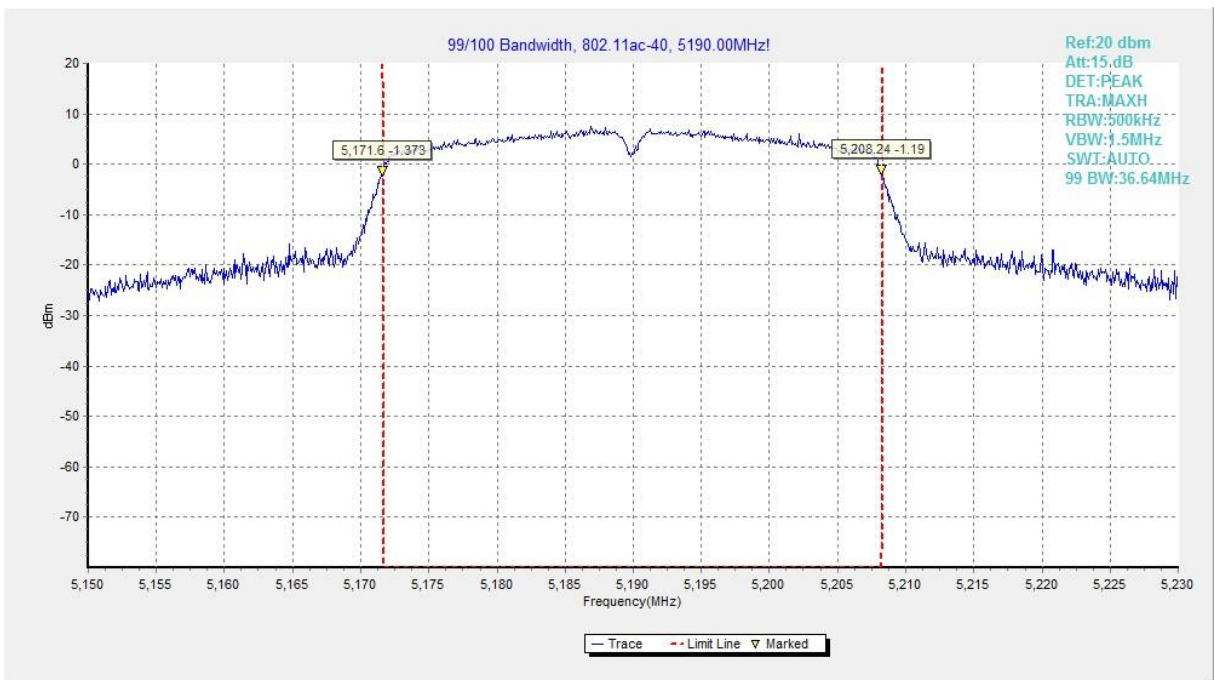
**Fig.63 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



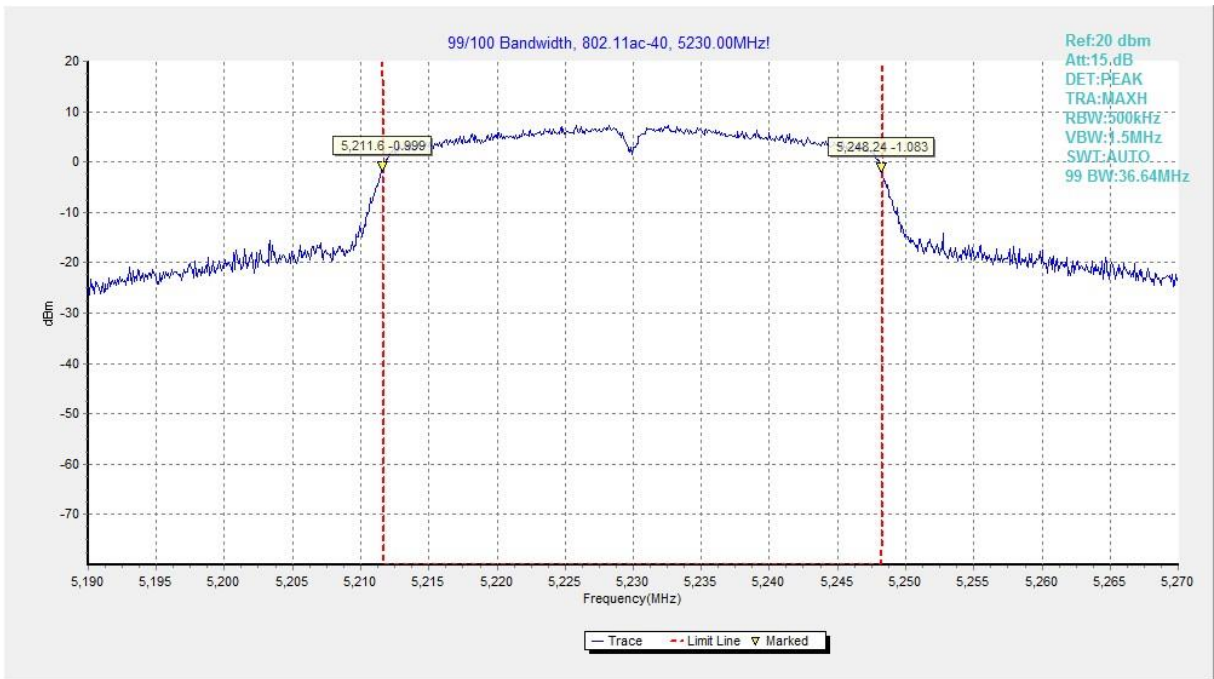
**Fig.64 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**



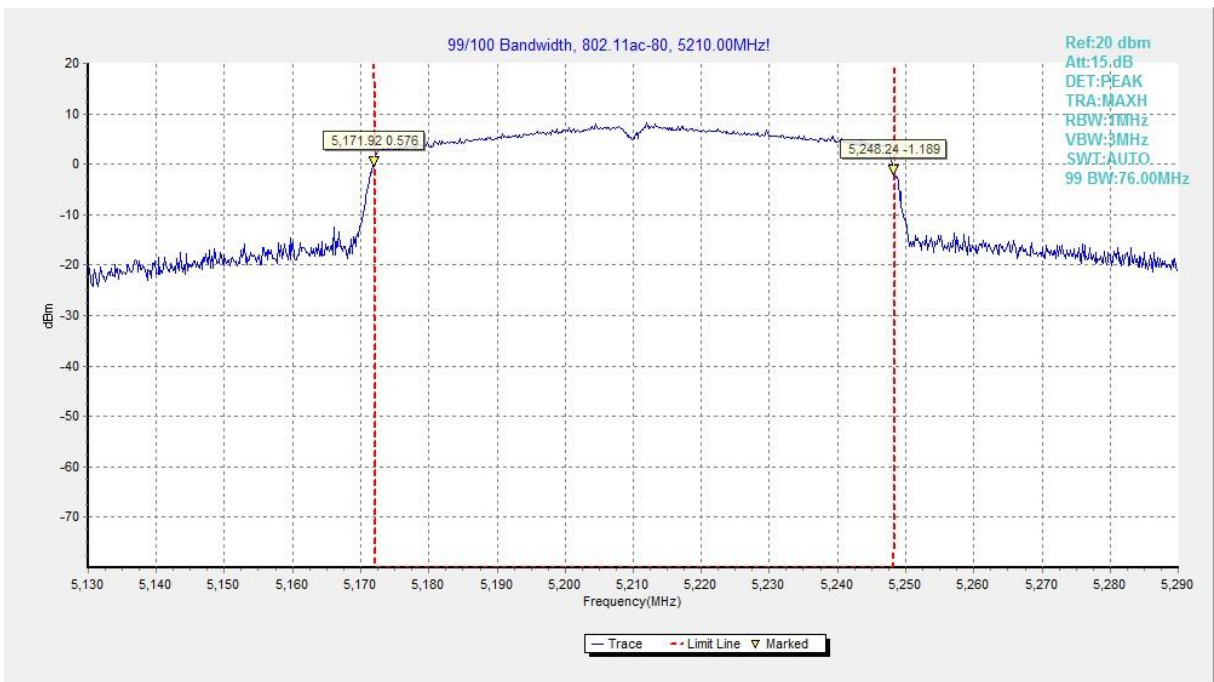
**Fig.65 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**



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



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



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




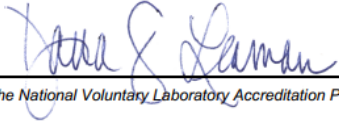
## **A.9. Power control**

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>	
2020-09-29 through 2021-09-30 <i>Effective Dates</i>	  <i>For the National Voluntary Laboratory Accreditation Program</i>

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