

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)
5400.660	43.67	-26.93	34.40	36.20	54.00	10.33	V
5430.960	43.49	-27.07	34.43	36.12	54.00	10.51	V
11340.000	37.83	-19.52	38.14	19.21	48.30	10.47	H
17840.350	43.12	-13.69	40.43	16.38	48.30	5.18	V
17980.500	43.21	-14.16	40.32	17.05	48.30	5.09	H
17870.500	43.16	-13.79	40.40	16.55	48.30	5.14	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)
5149.860	44.51	-27.49	34.15	37.85	54.00	9.49	V
5150.000	44.70	-27.49	34.16	38.04	54.00	9.30	V
11945.500	38.63	-19.43	38.83	19.24	54.00	15.37	H
15540.000	40.57	-16.59	40.15	17.01	54.00	13.43	V
17965.900	43.18	-14.11	40.33	16.96	54.00	10.82	H
17879.280	43.41	-13.82	40.40	16.83	54.00	10.59	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)
4160.050	43.31	-28.60	33.40	38.51	54.00	10.69	V
5037.650	44.17	-26.85	34.04	36.98	54.00	9.83	V
11824.500	38.48	-19.86	38.66	19.68	54.00	15.52	H
15600.000	39.76	-16.57	40.22	16.11	54.00	14.24	H
17972.500	43.24	-14.13	40.32	17.05	54.00	10.76	H
17880.600	43.45	-13.82	40.39	16.88	54.00	10.55	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)
4192.030	44.35	-28.13	33.44	39.04	54.00	9.65	V
4767.250	43.99	-27.72	33.91	37.81	54.00	10.01	V
12441.750	38.78	-19.19	38.90	19.07	54.00	15.22	V
15720.000	40.42	-16.31	40.37	16.36	54.00	13.58	H
17958.500	43.28	-14.08	40.33	17.03	54.00	10.72	V
17860.250	43.12	-13.76	40.41	16.47	54.00	10.88	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)
4207.800	44.45	-27.88	33.46	38.87	54.00	9.55	V
4787.450	43.60	-27.91	33.92	37.60	54.00	10.40	V
12367.540	38.69	-19.30	38.90	19.09	54.00	15.31	V
15780.000	40.32	-16.11	40.44	15.99	54.00	13.68	V
17754.700	43.05	-13.72	40.49	16.28	54.00	10.95	V
17887.800	43.05	-13.85	40.39	16.51	54.00	10.95	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)
4224.000	44.45	-28.19	33.48	39.16	54.00	9.55	V
4808.650	43.52	-27.69	33.93	37.29	54.00	10.48	V
12452.600	38.99	-19.19	38.90	19.29	54.00	15.01	H
15840.000	40.67	-16.05	40.51	16.21	54.00	13.33	V
17752.500	42.59	-13.73	40.50	15.82	54.00	11.41	V
17881.200	42.59	-13.83	40.39	16.02	54.00	11.41	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)
5350.080	45.50	-27.29	34.36	38.44	54.00	8.50	V
5350.620	45.37	-27.29	34.36	38.30	54.00	8.63	V
10640.000	37.49	-19.94	37.86	19.57	54.00	16.51	H
15960.000	41.90	-16.13	40.65	17.38	54.00	12.10	V
17765.700	42.92	-13.70	40.49	16.13	54.00	11.08	H
17915.300	42.70	-13.94	40.37	16.27	54.00	11.30	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)
5457.400	44.58	-27.09	34.46	37.21	54.00	9.42	V
5459.800	44.77	-27.07	34.46	37.38	54.00	9.23	V
11000.000	37.66	-19.43	38.00	19.09	54.00	16.34	H
15918.750	41.25	-16.10	40.60	16.75	54.00	12.75	V
17768.500	43.59	-13.69	40.48	16.79	54.00	10.41	V
17880.640	43.45	-13.82	40.39	16.88	54.00	10.55	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)
5111.800	45.33	-27.37	34.12	38.59	54.00	8.67	V
5128.000	45.09	-27.46	34.13	38.41	54.00	8.91	V
11200.000	37.68	-19.62	38.08	19.21	54.00	16.32	H
17780.500	43.31	-13.66	40.47	16.49	54.00	10.69	V
17758.000	42.80	-13.71	40.49	16.02	54.00	11.20	V
17894.400	42.80	-13.87	40.38	16.29	54.00	11.20	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)
5447.700	43.06	-27.15	34.45	35.76	48.30	5.24	V
5458.920	43.21	-27.08	34.46	35.83	48.30	5.09	V
11400.220	38.09	-19.43	38.16	19.35	48.30	10.21	V
17838.750	43.28	-13.68	40.43	16.54	48.30	5.02	V
17968.500	43.42	-14.12	40.32	17.21	48.30	4.88	V
17865.580	43.33	-13.77	40.41	16.70	48.30	4.97	H

**802.11ac-HT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.180	48.06	-27.49	34.15	41.40	54.00	5.94	V
5149.450	48.12	-27.49	34.15	41.46	54.00	5.88	V
12356.500	38.85	-19.32	38.90	19.27	54.00	15.15	H
15570.000	40.38	-16.58	40.19	16.78	54.00	13.62	V
17966.200	43.25	-14.11	40.33	17.03	54.00	10.75	V
17881.640	43.50	-13.83	40.39	16.93	54.00	10.50	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)
4733.500	45.59	-27.55	33.90	39.24	54.00	8.41	V
5453.450	44.12	-27.13	34.46	36.79	54.00	9.88	V
12655.650	38.02	-18.85	38.90	17.97	54.00	15.98	H
15690.000	40.44	-16.41	40.33	16.52	54.00	13.56	H
17973.640	43.19	-14.13	40.32	17.00	54.00	10.81	V
17874.500	43.52	-13.80	40.40	16.92	54.00	10.48	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)
4806.800	45.39	-27.71	33.93	39.18	54.00	8.61	V
5418.250	43.88	-27.01	34.42	36.47	54.00	10.12	V
12452.360	38.98	-19.19	38.90	19.27	54.00	15.02	V
15810.000	40.19	-16.03	40.47	15.74	54.00	13.81	H
17749.200	42.95	-13.74	40.50	16.18	54.00	11.05	H
17899.900	42.97	-13.89	40.38	16.48	54.00	11.03	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)
5350.980	43.77	-27.29	34.36	36.70	54.00	10.23	V
5352.660	43.79	-27.27	34.36	36.70	54.00	10.21	V
10620.000	37.65	-19.96	37.85	19.76	54.00	16.35	V
15930.000	40.55	-16.11	40.62	16.04	54.00	13.45	V
17758.000	42.94	-13.71	40.49	16.17	54.00	11.06	V
17895.500	42.96	-13.87	40.38	16.45	54.00	11.04	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)
5459.820	45.76	-27.07	34.46	38.37	54.00	8.24	V
5460.000	45.75	-27.07	34.46	38.36	54.00	8.25	V
11020.000	37.65	-19.42	38.01	19.06	54.00	16.35	V
17853.500	42.27	-13.73	40.42	15.59	54.00	11.73	V
17758.000	42.90	-13.71	40.49	16.12	54.00	11.10	V
17910.900	42.60	-13.92	40.37	16.15	54.00	11.40	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)
5093.200	46.27	-27.27	34.10	39.45	54.00	7.73	V
5127.000	47.02	-27.46	34.13	40.35	54.00	6.98	V
11180.000	37.63	-19.59	38.07	19.14	54.00	16.37	V
17769.500	43.08	-13.69	40.48	16.28	54.00	10.92	H
17950.500	43.21	-14.06	40.34	16.93	54.00	10.79	V
17844.580	43.08	-13.70	40.42	16.36	54.00	10.92	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)
5414.440	43.66	-26.99	34.42	36.23	54.00	10.34	V
5443.200	43.44	-27.13	34.45	36.12	54.00	10.56	V
11340.000	37.59	-19.52	38.14	18.97	54.00	16.41	H
17840.500	43.24	-13.69	40.43	16.50	54.00	10.76	V
17971.600	43.60	-14.13	40.32	17.40	54.00	10.40	H
17859.450	43.28	-13.75	40.41	16.62	54.00	10.72	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.060	46.45	-27.49	34.15	39.79	54.00	7.55	V
5149.320	46.54	-27.49	34.15	39.88	54.00	7.46	V
11941.200	38.11	-19.45	38.82	18.74	54.00	15.89	H
15629.500	39.85	-16.56	40.26	16.15	54.00	14.15	H
17774.500	42.66	-13.67	40.48	15.85	54.00	11.34	V
17844.900	42.47	-13.70	40.42	15.75	54.00	11.53	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)
5350.200	46.17	-27.29	34.36	39.11	54.00	7.83	V
5350.680	46.17	-27.29	34.36	39.11	54.00	7.83	V
12420.800	38.01	-19.22	38.90	18.33	54.00	15.99	V
15870.400	40.42	-16.07	40.55	15.94	54.00	13.58	H
17756.900	42.60	-13.72	40.49	15.82	54.00	11.40	V
17849.300	42.47	-13.72	40.42	15.76	54.00	11.53	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)
5459.000	47.02	-27.08	34.46	39.64	54.00	6.98	V
5459.800	46.99	-27.07	34.46	39.60	54.00	7.01	V
12426.300	38.16	-19.21	38.90	18.47	54.00	15.84	V
16589.800	41.02	-16.20	41.20	16.02	54.00	12.98	H
17766.800	42.76	-13.69	40.49	15.96	54.00	11.24	V
17841.600	42.58	-13.69	40.43	15.85	54.00	11.42	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)
5451.400	43.68	-27.15	34.45	36.37	54.00	10.32	V
5458.200	43.78	-27.09	34.46	36.41	54.00	10.22	V
11219.600	37.15	-19.64	38.09	18.70	54.00	16.85	V
16148.700	41.16	-16.23	40.85	16.53	54.00	12.84	H
17764.600	42.82	-13.70	40.49	16.03	54.00	11.18	V
17847.100	42.56	-13.71	40.42	15.85	54.00	11.44	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)
5149.225	61.35	-27.49	34.15	54.69	74.00	12.65	H
5149.502	61.25	-27.49	34.15	54.59	74.00	12.75	V
10359.950	48.87	-20.42	37.69	31.60	68.30	19.43	H
15539.850	53.34	-16.59	40.15	29.79	68.30	14.96	H
17250.680	55.61	-14.91	40.95	29.57	68.30	12.69	H
16967.530	55.92	-15.07	41.20	29.79	68.30	12.38	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)
5092.450	56.61	-27.27	34.10	49.78	68.30	11.69	H
5301.870	57.40	-26.98	34.31	50.07	68.30	10.90	V
10400.100	48.64	-20.36	37.72	31.28	68.30	19.66	H
15599.800	52.22	-16.57	40.22	28.56	68.30	16.08	V
16946.750	55.98	-15.08	41.20	29.85	68.30	12.32	V
17011.120	55.75	-15.06	41.19	29.61	68.30	12.55	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)
5152.250	56.41	-27.49	34.16	49.75	68.30	11.89	V
5329.450	57.18	-27.23	34.33	50.08	68.30	11.12	V
10479.850	48.32	-20.23	37.78	30.77	68.30	19.98	V
15720.250	53.24	-16.31	40.37	29.18	68.30	15.06	H
17229.450	55.69	-14.92	40.97	29.64	68.30	12.61	V
17508.850	55.78	-14.41	40.69	29.49	68.30	12.52	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)
5198.450	56.73	-27.54	34.20	50.07	68.30	11.57	V
5328.260	56.65	-27.22	34.33	49.54	68.30	11.65	H
10520.200	49.06	-20.16	37.81	31.42	68.30	19.24	H
15779.850	52.95	-16.11	40.44	28.62	68.30	15.35	H
17221.250	56.02	-14.93	40.98	29.97	68.30	12.28	V
16781.750	55.77	-15.51	41.20	30.08	68.30	12.53	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)
5189.450	56.23	-27.51	34.20	49.54	68.30	12.07	H
5346.280	57.19	-27.33	34.35	50.17	68.30	11.11	V
10560.250	48.77	-20.08	37.82	31.02	68.30	19.53	H
15840.500	52.98	-16.05	40.51	28.52	68.30	15.32	H
16785.960	55.59	-15.50	41.20	29.89	68.30	12.71	H
17459.800	55.74	-14.56	40.74	29.56	68.30	12.56	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)
5350.096	65.85	-27.29	34.36	58.79	74.00	8.15	H
5350.529	65.61	-27.29	34.36	58.55	74.00	8.39	H
10640.350	48.92	-19.94	37.86	31.00	68.30	19.38	V
15960.500	53.29	-16.13	40.65	28.77	68.30	15.01	V
16815.650	55.74	-15.42	41.20	29.96	68.30	12.56	H
17486.350	56.07	-14.48	40.71	29.83	68.30	12.23	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)
5441.400	59.06	-27.12	34.44	51.73	74.00	14.94	H
5457.325	60.41	-27.10	34.46	53.04	74.00	13.59	H
11000.150	50.35	-19.43	38.00	31.78	74.00	23.65	V
16500.150	54.75	-16.15	41.20	29.71	68.30	13.55	H
16315.280	55.19	-15.98	41.02	30.15	68.30	13.11	V
16598.240	55.23	-16.20	41.20	30.23	68.30	13.07	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)
4399.600	55.94	-28.30	33.69	50.56	68.30	12.36	V
5654.000	58.47	-26.82	34.69	50.60	68.30	9.83	V
11200.500	49.73	-19.62	38.08	31.27	74.00	24.27	V
16800.350	55.14	-15.46	41.20	29.41	68.30	13.16	H
16875.250	55.52	-15.26	41.20	29.59	68.30	12.77	V
17002.350	55.76	-15.06	41.20	29.62	68.30	12.54	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)
57259.250	62.94	0.00	0.00	62.94	68.30	5.36	V
57252.125	63.37	0.00	0.00	63.37	68.30	4.93	V
11400.154	50.22	-19.43	38.16	31.49	74.00	23.78	V
17100.550	55.63	-15.02	41.10	29.56	68.30	12.66	V
17094.750	56.02	-15.03	41.10	29.95	68.30	12.28	H
17165.150	55.94	-14.98	41.03	29.88	68.30	12.36	H

**802.11n-HT20**

## Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.398	62.45	-27.49	34.15	55.79	74.00	11.55	V
5148.698	62.49	-27.49	34.15	55.83	74.00	11.51	H
10359.950	48.79	-20.42	37.69	31.52	68.30	19.51	H
15539.850	53.31	-16.59	40.15	29.75	68.30	14.99	V
17038.500	55.57	-15.05	41.16	29.45	68.30	12.73	V
17203.860	54.90	-14.95	40.99	28.86	68.30	13.40	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)
5151.450	56.36	-27.49	34.16	49.70	68.30	11.94	V
5287.650	57.74	-26.90	34.29	50.35	68.30	10.55	V
10398.670	48.59	-20.36	37.72	31.23	68.30	19.71	V
15599.800	52.34	-16.57	40.22	28.69	68.30	15.96	H
16957.250	55.80	-15.07	41.20	29.67	68.30	12.50	H
17466.500	55.91	-14.54	40.73	29.71	68.30	12.39	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)
5174.450	56.30	-27.49	34.18	49.62	68.30	11.99	V
5320.420	56.53	-27.15	34.33	49.35	68.30	11.77	V
10480.000	48.09	-20.23	37.78	30.54	68.30	20.21	V
15720.750	53.11	-16.31	40.37	29.05	68.30	15.19	V
17529.650	55.80	-14.35	40.68	29.47	68.30	12.50	H
16847.250	55.91	-15.34	41.20	30.05	68.30	12.39	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)
5192.600	56.62	-27.52	34.20	49.94	68.30	11.68	V
5318.650	56.89	-27.13	34.32	49.70	68.30	11.41	V
10519.800	49.11	-20.16	37.81	31.47	68.30	19.19	H
15780.500	52.96	-16.11	40.44	28.62	68.30	15.34	V
16915.980	55.34	-15.16	41.20	29.30	68.30	12.95	V
16888.500	55.91	-15.23	41.20	29.94	68.30	12.39	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)
5180.100	57.39	-27.49	34.19	50.69	68.30	10.91	V
5419.500	56.51	-27.02	34.42	49.11	68.30	11.79	V
10560.000	48.82	-20.08	37.82	31.08	68.30	19.48	H
15840.000	52.97	-16.05	40.51	28.51	68.30	15.33	V
17383.450	55.64	-14.70	40.82	29.52	68.30	12.66	V
17025.680	55.69	-15.05	41.17	29.57	68.30	12.61	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)
5350.231	64.34	-27.29	34.36	57.28	74.00	9.66	H
5354.038	65.11	-27.26	34.36	58.01	74.00	8.89	V
10639.850	48.85	-19.94	37.86	30.93	68.30	19.45	H
15959.750	53.14	-16.13	40.65	28.62	68.30	15.16	V
16984.650	56.18	-15.06	41.20	30.05	68.30	12.12	V
16847.500	55.72	-15.34	41.20	29.86	68.30	12.58	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)
5459.830	60.47	-27.07	34.46	53.08	74.00	13.53	V
5459.965	61.03	-27.07	34.46	53.64	74.00	12.97	V
11000.250	50.34	-19.43	38.00	31.77	74.00	23.66	H
16500.500	54.68	-16.15	41.20	29.63	68.30	13.62	V
17429.250	56.10	-14.62	40.77	29.94	68.30	12.20	V
17489.050	55.96	-14.47	40.71	29.72	68.30	12.34	H

## Channel 120

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4480.200	58.24	-28.22	33.78	52.69	68.30	10.06	H
5645.800	57.69	-26.77	34.68	49.79	68.30	10.61	H
11200.350	49.68	-19.62	38.08	31.21	74.00	24.32	H
16800.450	55.32	-15.46	41.20	29.59	68.30	12.98	H
16935.780	55.54	-15.10	41.20	29.44	68.30	12.76	H
17485.450	55.78	-14.48	40.71	29.55	68.30	12.52	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)
5725.038	64.03	-26.69	34.78	55.94	68.30	4.27	V
5725.113	63.82	-26.69	34.78	55.73	68.30	4.48	V
11400.000	50.33	-19.43	38.16	31.60	74.00	23.67	H
17100.200	55.23	-15.02	41.10	29.16	68.30	13.07	H
17048.540	55.79	-15.04	41.15	29.68	68.30	12.51	H
17111.175	55.73	-15.02	41.09	29.66	68.30	12.57	V

**802.11n-HT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.153	66.41	-27.49	34.15	59.75	74.00	7.59	V
5148.890	65.55	-27.49	34.15	58.89	74.00	8.45	V
10380.250	48.65	-20.39	37.71	31.33	68.30	19.65	H
15570.100	52.13	-16.58	40.19	28.53	68.30	16.16	H
17440.650	56.01	-14.60	40.76	29.85	68.30	12.29	V
17347.150	56.13	-14.77	40.85	30.04	68.30	12.17	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)
5164.200	56.39	-27.49	34.17	49.71	68.30	11.91	H
5314.000	56.28	-27.09	34.32	49.06	68.30	12.02	H
10460.500	48.01	-20.26	37.77	30.50	68.30	20.29	V
15690.550	53.00	-16.41	40.33	29.08	68.30	15.30	H
17129.350	55.83	-15.01	41.07	29.77	68.30	12.47	H
17670.560	55.96	-13.94	40.56	29.33	68.30	12.34	V

## Channel 54

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5205.460	57.92	-27.56	34.21	51.28	68.30	10.38	V
5333.800	56.81	-27.27	34.34	49.75	68.30	11.49	V
10540.000	49.39	-20.12	37.82	31.69	68.30	18.91	V
15810.000	54.20	-16.03	40.47	29.76	68.30	14.09	V
16410.560	55.37	-16.09	41.11	30.35	68.30	12.93	V
17578.630	55.82	-14.20	40.64	29.38	68.30	12.48	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)
5352.621	69.07	-27.27	34.36	61.98	74.00	4.93	V
5352.837	69.73	-27.27	34.36	62.65	74.00	4.27	V
10620.100	49.09	-19.96	37.85	31.21	68.30	19.21	V
15930.350	54.00	-16.11	40.62	29.50	68.30	14.30	V
17486.850	55.74	-14.48	40.71	29.50	68.30	12.56	V
16785.950	55.49	-15.50	41.20	29.80	68.30	12.80	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)
5459.448	62.51	-27.08	34.46	55.13	74.00	11.49	V
5459.898	62.74	-27.07	34.46	55.35	74.00	11.26	H
11019.950	49.97	-19.42	38.01	31.39	74.00	24.03	H
16529.850	54.12	-16.17	41.20	29.09	68.30	14.18	V
17160.150	53.60	-14.98	41.04	27.54	68.30	14.70	V
17484.650	56.20	-14.48	40.72	29.97	68.30	12.10	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)
5093.600	58.89	-27.28	34.10	52.07	74.00	15.11	V
5127.400	58.29	-27.46	34.13	51.61	74.00	15.71	V
11180.250	50.39	-19.59	38.07	31.91	74.00	23.61	V
16770.200	54.60	-15.55	41.20	28.95	68.30	13.70	H
17165.450	53.60	-14.98	41.03	27.54	68.30	14.70	V
17480.750	56.20	-14.49	40.72	29.98	68.30	12.10	V

Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5726.150	59.46	-26.68	34.78	51.36	68.30	8.84	V
5728.225	59.68	-26.68	34.78	51.58	68.30	8.62	V
11340.050	50.59	-19.52	38.14	31.97	74.00	23.41	H
17010.250	55.04	-15.06	41.19	28.90	68.30	13.26	V
16725.550	56.42	-15.74	41.20	30.96	68.30	11.88	V
17485.450	57.35	-14.48	40.71	31.12	68.30	10.95	V

**802.11ac-HT20**

Channel 36

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.505	60.82	-27.49	34.15	54.16	74.00	13.18	V
5149.765	60.75	-27.49	34.15	54.09	74.00	13.25	H
10359.950	48.91	-20.42	37.69	31.64	68.30	19.39	H
15539.850	53.64	-16.59	40.15	30.08	68.30	14.66	V
17255.450	55.71	-14.90	40.94	29.67	68.30	12.59	V
17208.650	54.94	-14.94	40.99	28.89	68.30	13.36	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)
5140.600	55.94	-27.49	34.15	49.29	68.30	12.36	H
5270.400	57.44	-27.16	34.28	50.33	68.30	10.86	V
10400.230	48.71	-20.36	37.72	31.35	68.30	19.59	H
15599.800	52.42	-16.57	40.22	28.77	68.30	15.88	H
17015.560	56.47	-15.05	41.18	30.34	68.30	11.83	H
16819.760	56.63	-15.41	41.20	30.84	68.30	11.67	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)
5153.000	56.42	-27.49	34.16	49.75	68.30	11.88	V
5344.450	56.65	-27.34	34.35	49.64	68.30	11.65	V
10480.150	48.12	-20.23	37.78	30.57	68.30	20.18	V
15720.050	53.02	-16.31	40.37	28.96	68.30	15.28	V
17262.450	55.90	-14.90	40.94	29.86	68.30	12.40	V
17487.950	56.33	-14.47	40.71	30.09	68.30	11.97	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)
5192.850	55.79	-27.52	34.20	49.11	68.30	12.51	V
5318.250	57.25	-27.13	34.32	50.05	68.30	11.05	H
10520.320	49.32	-20.16	37.81	31.67	68.30	18.98	H
15780.340	52.87	-16.11	40.44	28.54	68.30	15.43	V
17418.650	56.23	-14.64	40.78	30.08	68.30	12.07	V
17094.560	56.11	-15.03	41.10	30.03	68.30	12.19	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)
5204.600	56.53	-27.56	34.21	49.88	68.30	11.77	V
5323.450	56.38	-27.18	34.33	49.23	68.30	11.92	H
10559.750	48.84	-20.08	37.82	31.10	68.30	19.46	V
15839.850	53.10	-16.05	40.51	28.64	68.30	15.20	H
16759.650	55.41	-15.60	41.20	29.81	68.30	12.89	H
17596.350	56.23	-14.14	40.62	29.75	68.30	12.07	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)
5350.704	64.16	-27.29	34.36	57.09	74.00	9.84	V
5351.338	64.10	-27.28	34.36	57.03	74.00	9.90	V
10639.950	48.69	-19.94	37.86	30.77	68.30	19.61	H
15959.850	53.76	-16.13	40.65	29.24	68.30	14.54	V
17071.050	55.67	-15.03	41.13	29.58	68.30	12.63	V
17320.560	56.10	-14.81	40.88	30.04	68.30	12.20	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)
5458.300	59.03	-27.09	34.46	51.66	74.00	14.97	V
5459.650	58.75	-27.08	34.46	51.36	74.00	15.25	H
11000.350	50.68	-19.43	38.00	32.11	68.30	17.62	V
16500.250	54.94	-16.15	41.20	29.89	74.00	19.06	V
17262.450	55.66	-14.90	40.94	29.62	68.30	12.64	V
17422.520	55.72	-14.63	40.78	29.57	68.30	12.58	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)
4480.200	56.76	-28.22	33.78	51.20	68.30	11.54	V
5656.500	58.06	-26.83	34.69	50.20	68.30	10.24	H
11200.150	49.83	-19.62	38.08	31.36	74.00	24.17	V
16800.560	55.36	-15.46	41.20	29.62	68.30	12.94	H
17255.400	55.49	-14.90	40.94	29.45	68.30	12.81	H
17418.500	55.56	-14.64	40.78	29.42	68.30	12.74	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)
5725.163	63.27	-26.69	34.78	55.19	68.30	5.02	H
5725.413	63.74	-26.69	34.78	55.65	68.30	4.56	H
11400.150	50.35	-19.43	38.16	31.61	74.00	23.65	V
17100.420	55.38	-15.02	41.10	29.31	68.30	12.91	H
16728.450	56.37	-15.73	41.20	30.89	68.30	11.93	V
17483.600	57.20	-14.49	40.72	30.97	68.30	11.10	H

**802.11ac-HT40**

## Channel 38

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.925	66.84	-27.49	34.15	60.18	74.00	7.16	H
5148.435	67.18	-27.49	34.15	60.52	74.00	6.82	H
10380.150	48.72	-20.39	37.71	31.40	68.30	19.58	H
15570.250	52.15	-16.58	40.19	28.54	68.30	16.15	V
16774.350	56.05	-15.54	41.20	30.39	68.30	12.25	V
17510.560	55.88	-14.40	40.69	29.59	68.30	12.42	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)
5165.100	56.38	-27.49	34.17	49.70	68.30	11.92	V
5298.650	57.75	-26.95	34.30	50.39	68.30	10.55	H
10460.050	48.12	-20.26	37.77	30.62	68.30	20.18	H
15690.150	53.24	-16.41	40.33	29.32	68.30	15.06	H
16834.680	56.12	-15.37	41.20	30.29	68.30	12.18	H
17103.560	55.79	-15.02	41.10	29.72	68.30	12.51	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)
4807.650	57.38	-27.70	33.93	51.15	68.30	10.92	V
5463.650	57.05	-27.04	34.47	49.62	68.30	11.25	H
10540.250	49.51	-20.12	37.82	31.82	68.30	18.79	H
15810.500	54.33	-16.03	40.47	29.88	68.30	13.97	V
17343.500	55.93	-14.77	40.85	29.85	68.30	12.37	H
16676.380	55.14	-15.94	41.20	29.88	68.30	13.16	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)
5350.542	69.68	-27.29	34.36	62.62	74.00	4.32	H
5350.907	69.61	-27.29	34.36	62.54	74.00	4.39	V
10619.750	49.12	-19.96	37.85	31.24	68.30	19.17	V
15929.950	54.10	-16.11	40.62	29.60	68.30	14.20	V
17345.680	55.92	-14.77	40.85	29.84	68.30	12.38	H
17535.860	56.05	-14.33	40.67	29.70	68.30	12.25	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)
5459.125	63.74	-27.08	34.46	56.36	74.00	10.26	V
5459.852	63.53	-27.07	34.46	56.14	74.00	10.47	V
11019.950	50.12	-19.42	38.01	31.53	74.00	23.88	V
16529.850	54.28	-16.17	41.20	29.25	68.30	14.02	H
17275.250	55.55	-14.89	40.92	29.51	68.30	12.75	V
17425.150	55.35	-14.62	40.77	29.20	68.30	12.95	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)
5093.400	57.42	-27.27	34.10	50.59	74.00	16.58	V
5127.000	59.27	-27.46	34.13	52.59	74.00	14.73	V
11180.000	50.42	-19.59	38.07	31.94	74.00	23.58	H
16770.150	54.63	-15.55	41.20	28.98	68.30	13.67	H
17246.500	55.54	-14.91	40.95	29.50	68.30	12.76	H
17425.180	55.46	-14.62	40.77	29.31	68.30	12.84	H

## Channel 134

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.188	59.12	-26.69	34.78	51.03	68.30	9.18	V
5730.225	58.91	-26.69	34.78	50.81	68.30	9.39	V
11340.050	50.28	-19.52	38.14	31.67	74.00	23.72	H
17010.150	55.61	-15.06	41.19	29.48	68.30	12.69	V
17283.560	55.49	-14.88	40.91	29.46	68.30	12.81	V
17420.450	55.58	-14.63	40.78	29.43	68.30	12.72	H

**802.11ac-HT80**

## Channel 42

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.060	46.45	-27.5	34.15	39.79	54.00	7.55	V
5149.320	46.54	-27.5	34.15	39.88	54.00	7.46	V
11941.200	38.11	-19.5	38.82	18.74	54.00	15.89	H
15629.500	39.85	-16.6	40.26	16.15	54.00	14.15	H
17774.500	42.66	-13.7	40.48	15.85	54.00	11.34	V
17844.900	42.47	-13.7	40.42	15.75	54.00	11.53	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)
5350.002	66.25	-27.29	34.35	59.19	74.00	7.75	V
5350.258	65.90	-27.29	34.36	58.83	74.00	8.10	V
10579.950	48.24	-20.04	37.83	30.45	68.30	20.05	V
15869.850	51.42	-16.07	40.55	26.95	74.00	22.58	V
16809.800	56.35	-15.44	41.20	30.59	68.30	11.95	H
17098.000	56.30	-15.03	41.10	30.23	68.30	11.99	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)
5459.740	62.12	-27.07	34.46	54.73	74.00	11.88	H
5459.988	62.71	-27.07	34.46	55.32	74.00	11.29	V
11060.100	48.16	-19.43	38.02	29.57	68.30	20.14	H
16589.800	52.19	-16.20	41.20	27.19	74.00	21.81	H
17028.150	56.13	-15.05	41.17	30.01	68.30	12.17	H
17460.450	56.40	-14.56	40.74	30.21	68.30	11.90	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)
5725.988	59.20	-26.68	34.78	51.10	68.30	9.10	V
5730.200	59.53	-26.69	34.78	51.43	68.30	8.77	V
11220.150	49.39	-19.64	38.09	30.95	68.30	18.91	H
16830.150	54.17	-15.38	41.20	28.35	74.00	19.83	H
17087.550	56.20	-15.03	41.11	30.12	68.30	12.10	V
17424.700	56.37	-14.62	40.77	30.22	68.30	11.93	H

**Note:**

The spurious emission above 18G is noise only.

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

### Method of Measurement:

See Clause 6.2 of ANSI C63.10-2013 specifically.

See Clause 4 and Clause 5 of ANSI C63.10-2013 generally.

The conducted emissions from the AC port of the EUT are measured in a shielding room. The EUT is connected to a Line Impedance Stabilization Network (LISN). An overview sweep with peak detection was performed. The measurements were performed with a quasi-peak detector and if required, an average detector.

The conducted emission measurements were made with the following detector of the test receiver: Quasi-Peak / Average Detector.

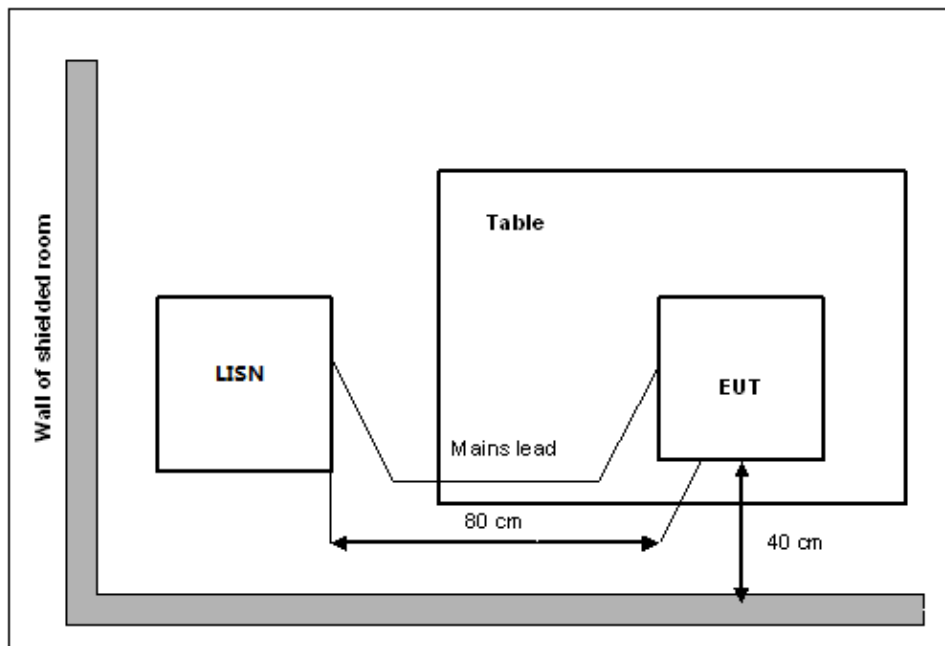
The measurement bandwidth is:

Frequency of Emission (MHz)	RBW/IF bandwidth
0.15-30	9kHz

### Test Condition:

Voltage (V)	Frequency (Hz)
120	60

### Measurement Setup



**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.54	Fig.55	<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		
		802.11a	Idle	
0.15 to 0.5	67 56 to 46	Fig.54	Fig.55	<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:

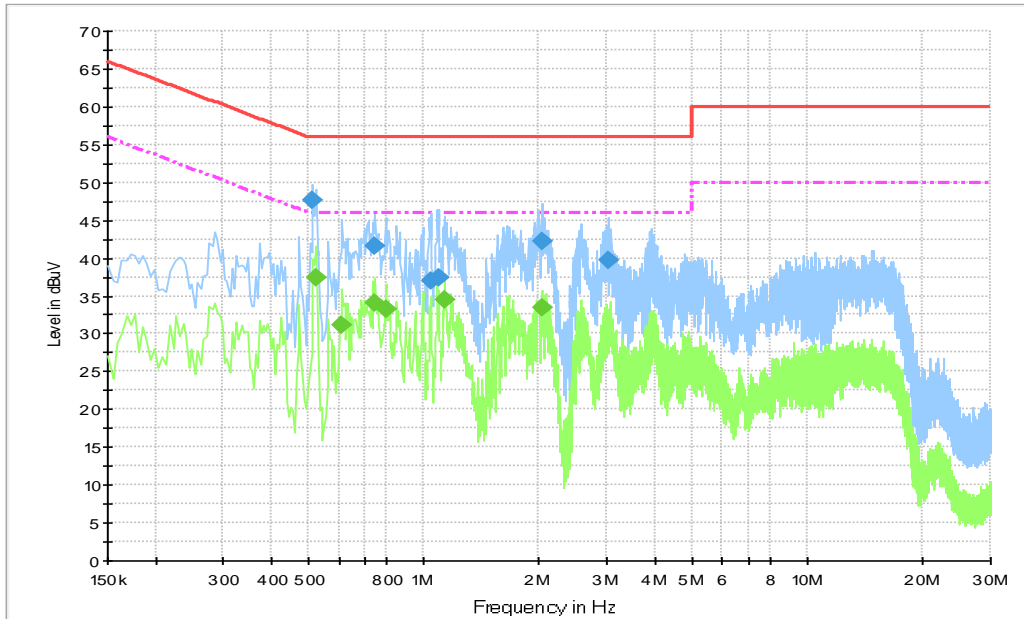


Fig.54 AC Powerline Conducted Emission-Traffic

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

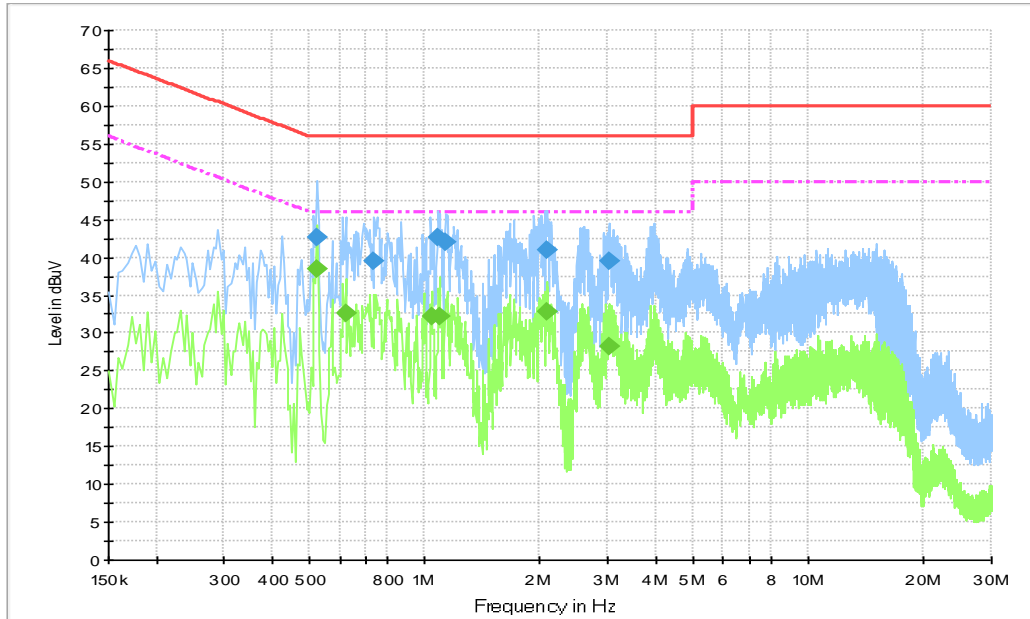
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.514500	47.7	5000.	9.000	L1	19.9	8.3	56.0
0.748500	41.6	5000.	9.000	L1	19.8	14.4	56.0
1.045500	36.9	5000.	9.000	N	19.7	19.1	56.0
1.095000	37.5	5000.	9.000	N	19.7	18.5	56.0
2.040000	42.2	5000.	9.000	L1	19.7	13.8	56.0
3.034500	39.7	5000.	9.000	L1	19.6	16.3	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.523500	37.5	5000.0	9.000	L1	19.9	8.5	46.0
0.613500	31.2	5000.0	9.000	N	19.8	14.8	46.0
0.748500	34.1	5000.0	9.000	L1	19.8	11.9	46.0
0.798000	33.2	5000.0	9.000	L1	19.8	12.8	46.0
1.131000	34.5	5000.0	9.000	L1	19.7	11.5	46.0
2.026500	33.4	5000.0	9.000	L1	19.7	12.6	46.0

Idle



**Fig.55 AC Powerline Conducted Emission-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)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.523500	42.6	5000.	9.000	N	19.9	13.4	56.0
0.739500	39.5	5000.	9.000	N	19.8	16.5	56.0
1.086000	42.5	5000.	9.000	L1	19.7	13.5	56.0
1.140000	41.9	5000.	9.000	L1	19.7	14.1	56.0
2.080500	40.9	5000.	9.000	L1	19.7	15.1	56.0
3.043500	39.4	5000.	9.000	L1	19.6	16.6	56.0

**Final Result 2**

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.523500	38.5	5000.0	9.000	L1	19.9	7.5	46.0
0.622500	32.6	5000.0	9.000	L1	19.8	13.4	46.0
1.045500	32.1	5000.0	9.000	L1	19.7	13.9	46.0
1.095000	32.2	5000.0	9.000	L1	19.7	13.8	46.0
2.080500	32.8	5000.0	9.000	L1	19.7	13.2	46.0
3.030000	28.3	5000.0	9.000	N	19.6	17.7	46.0

Note: The measurement results showed here are worst cases of the combinations of different AE.

### 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).

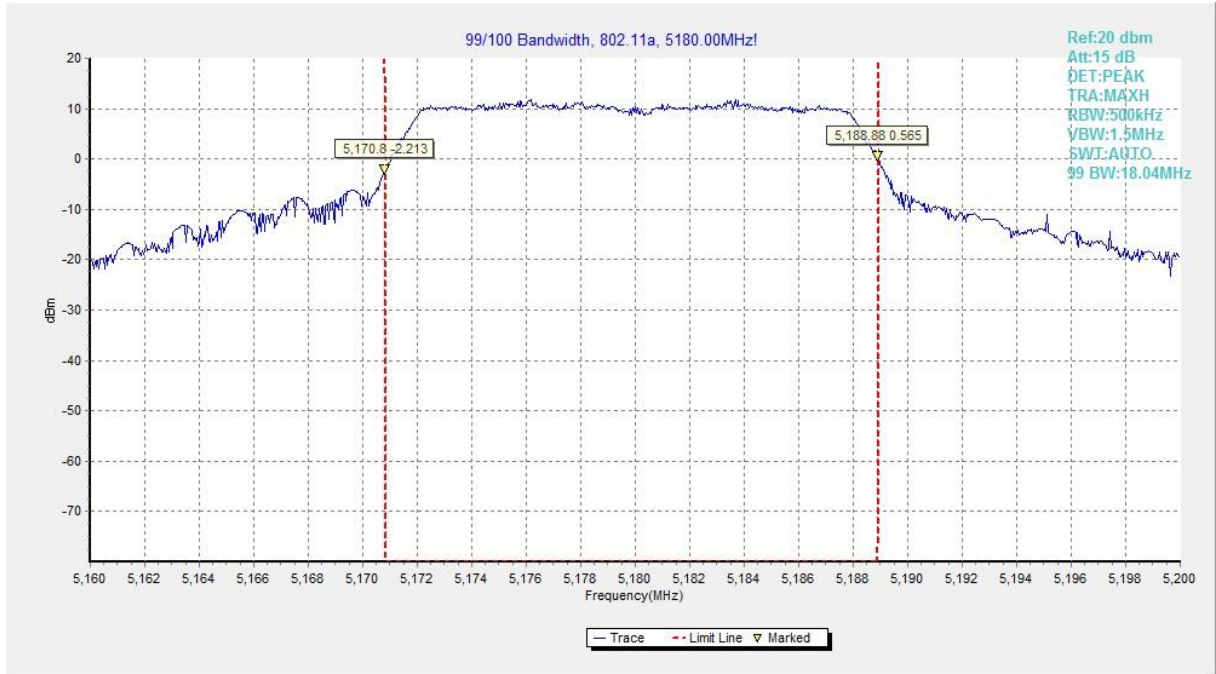
#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
-------------------------	---------

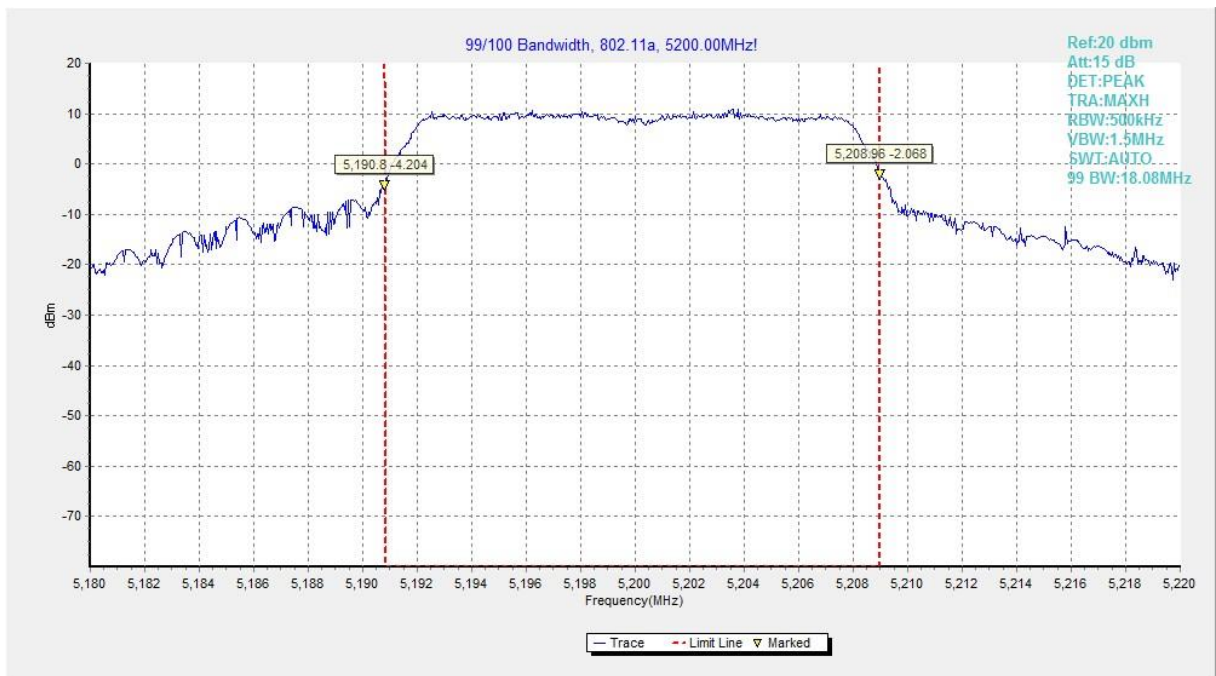
#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
802.11a	5180 MHz	Fig.56	18.04	P
	5200 MHz	Fig.57	18.08	P
	5240 MHz	Fig.58	17.96	P
802.11ac HT20	5180 MHz	Fig.59	18.56	P
	5200 MHz	Fig.60	18.64	P
	5240 MHz	Fig.61	18.52	P
802.11ac HT40	5190 MHz	Fig.62	36.40	P
	5230 MHz	Fig.63	36.24	P
802.11ac HT80	5210 MHz	Fig.64	75.84	P

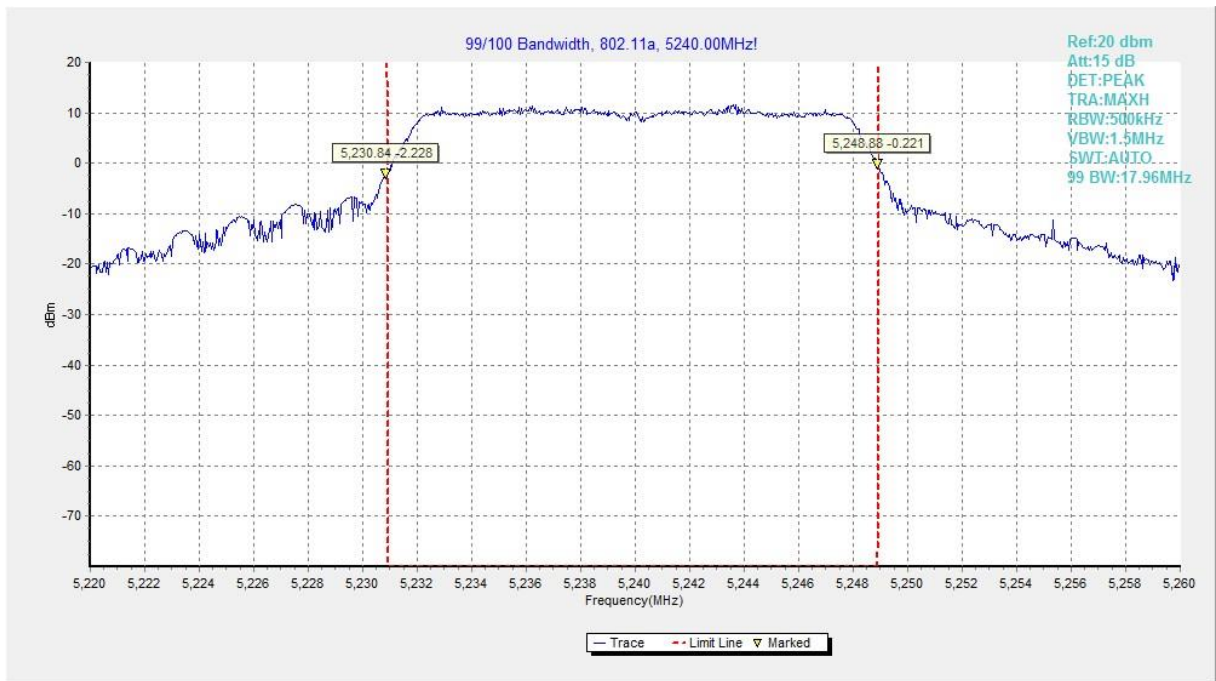
**Conclusion: PASS**  
**Test graphs as below:**



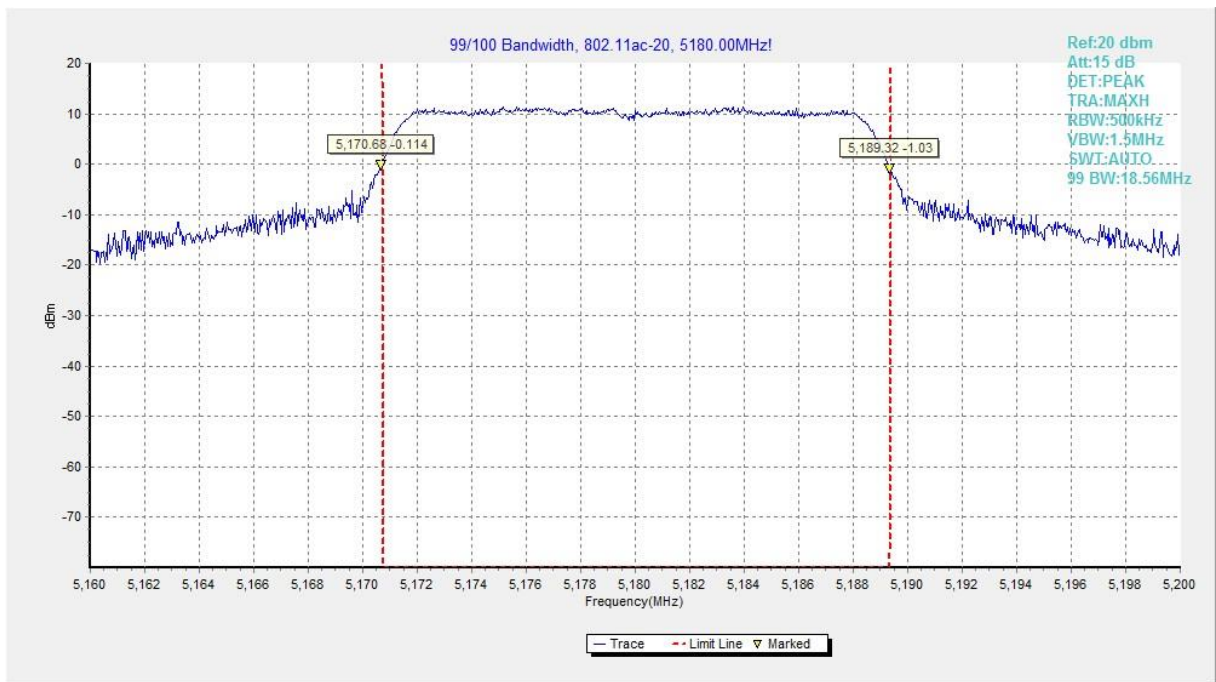
**Fig.56 99% Occupied bandwidth (802.11a, 5180MHz)**



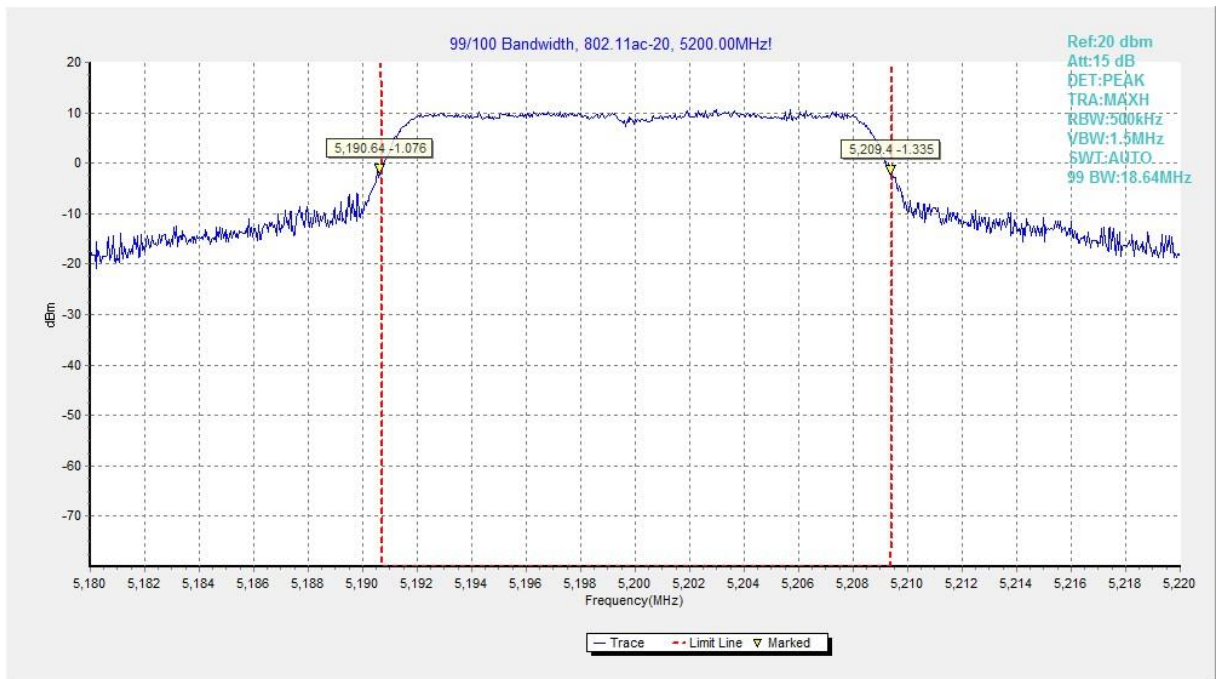
**Fig.57 99% Occupied bandwidth (802.11a, 5200MHz)**



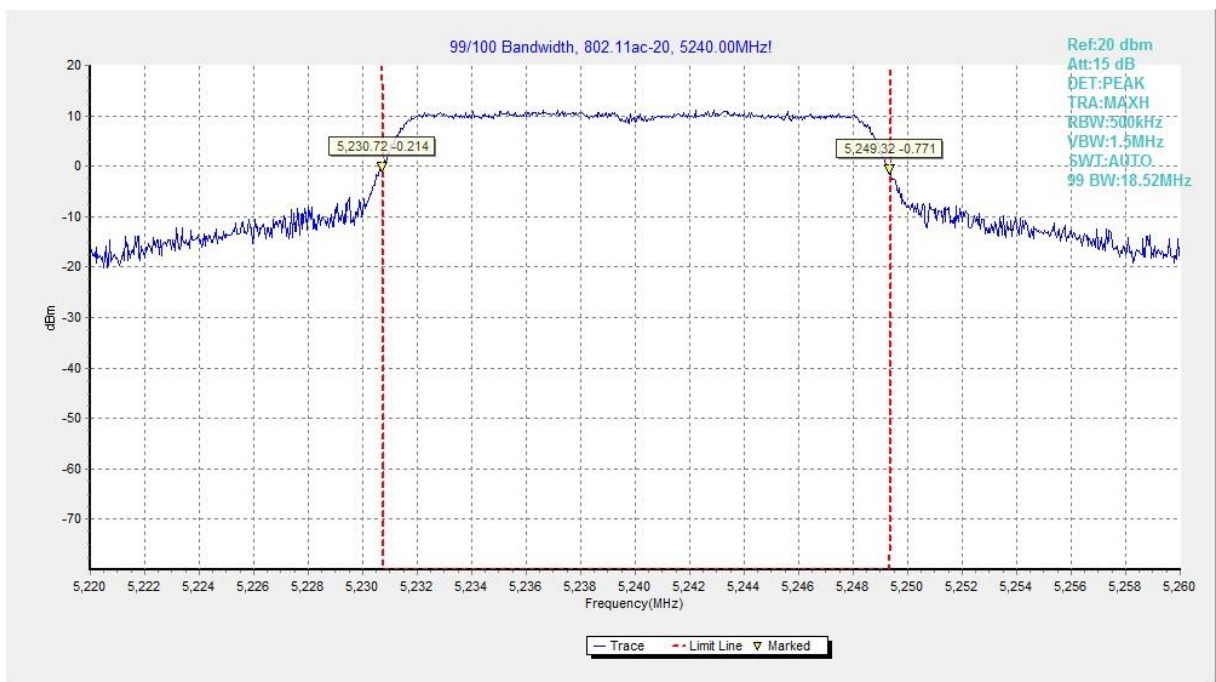
**Fig.58 99% Occupied bandwidth (802.11a, 5240MHz)**



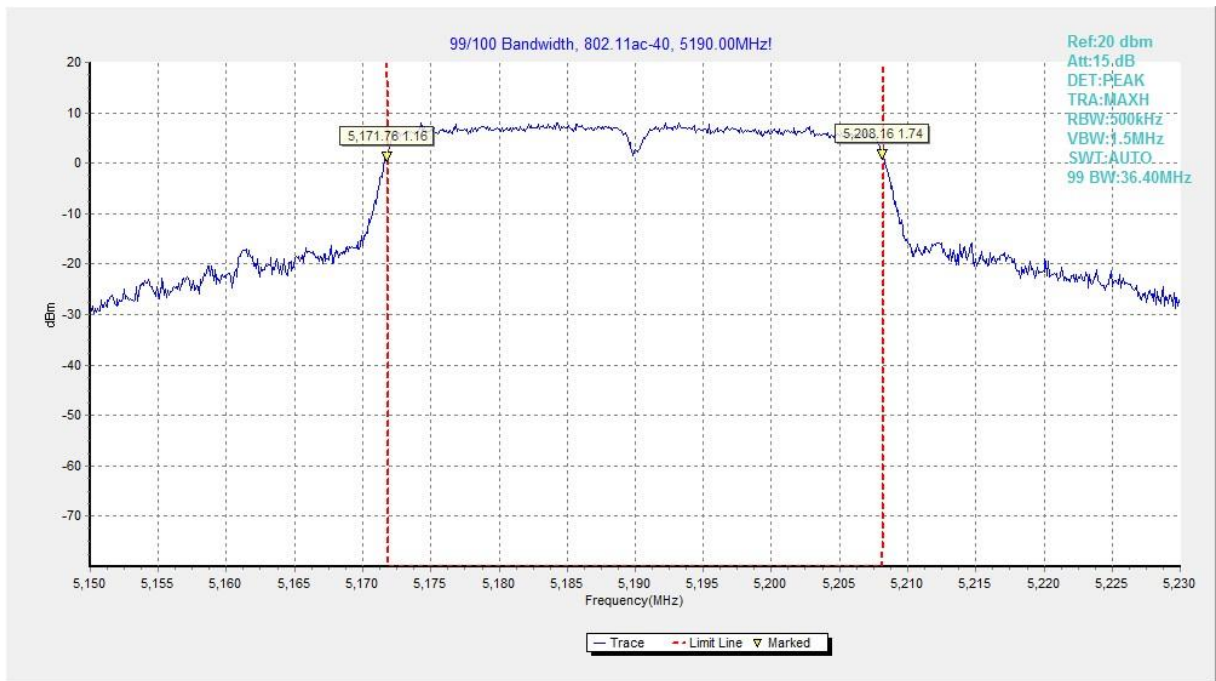
**Fig.59 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



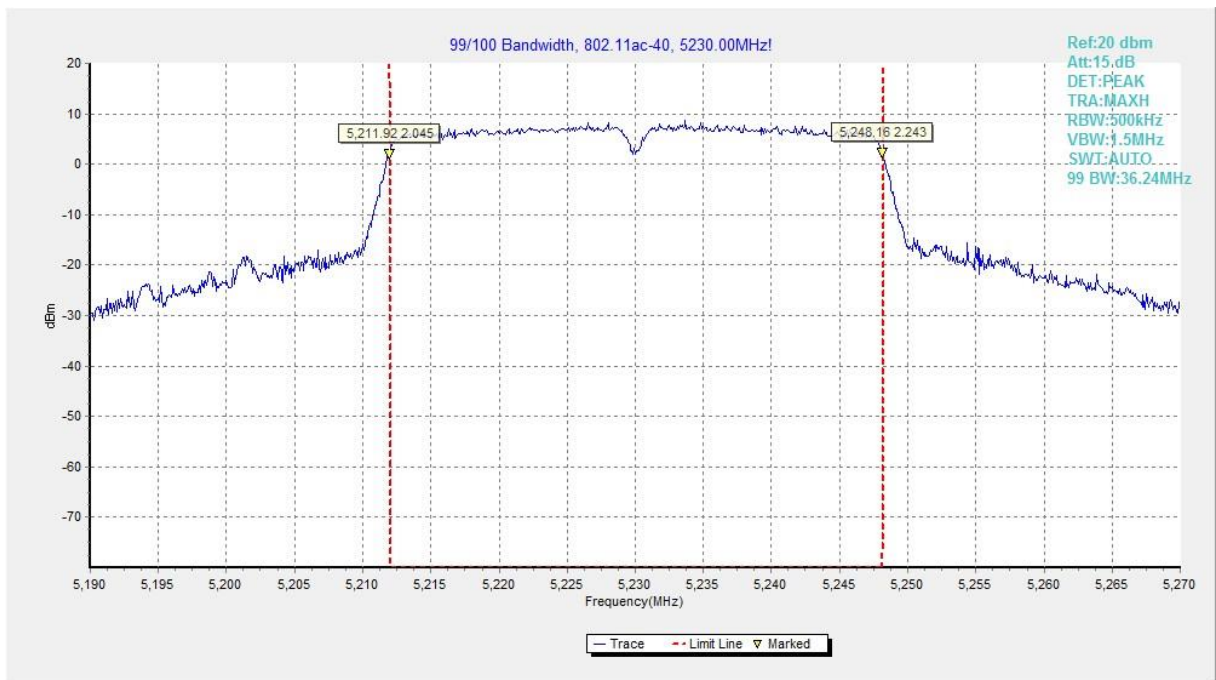
**Fig.60 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**



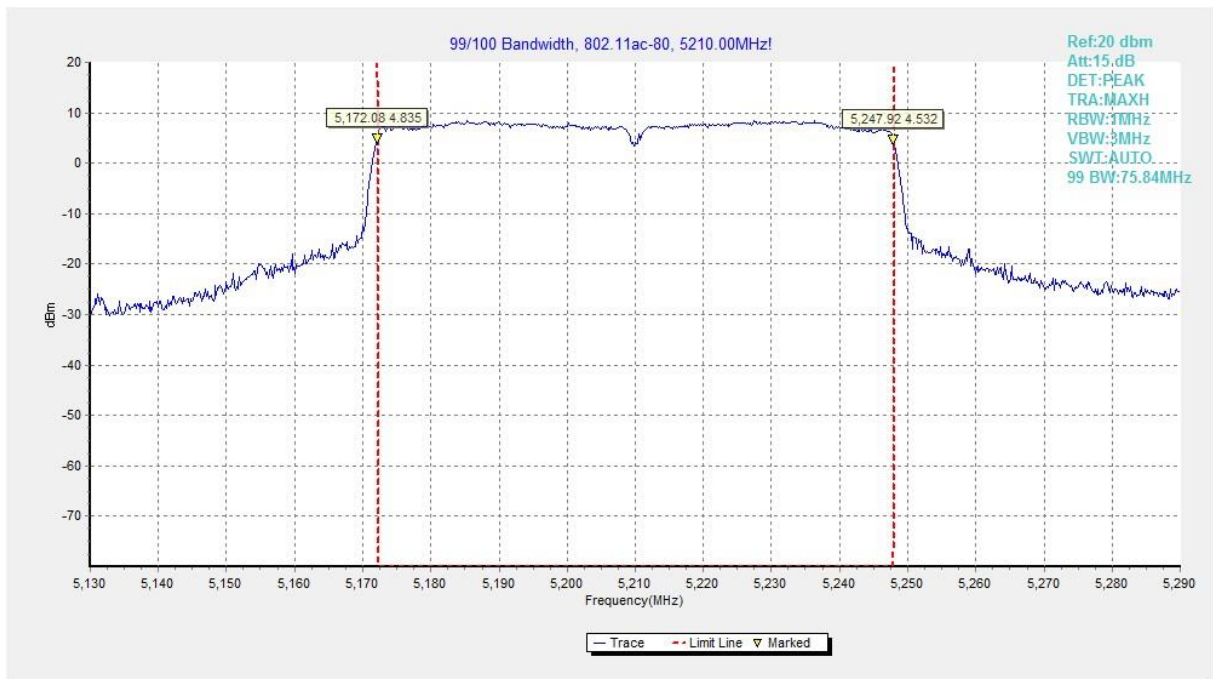
**Fig.61 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**



**Fig.62 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)**



**Fig.63 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)**



**Fig.64 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**

## A.9. Power control

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

## ANNEX B: EUT parameters

Disclaimer: The antenna gain 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 Communiqué dated January 2009).</i>	
<hr/> 2021-09-29 through 2022-09-30 <i>Effective Dates</i>	 For the National Voluntary Laboratory Accreditation Program

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