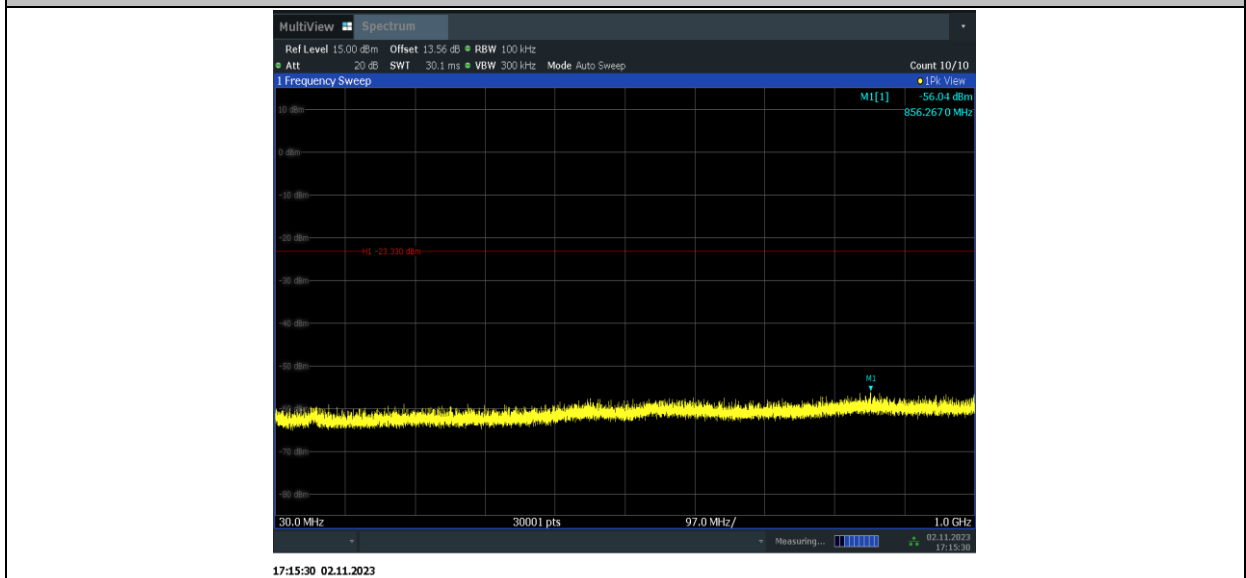
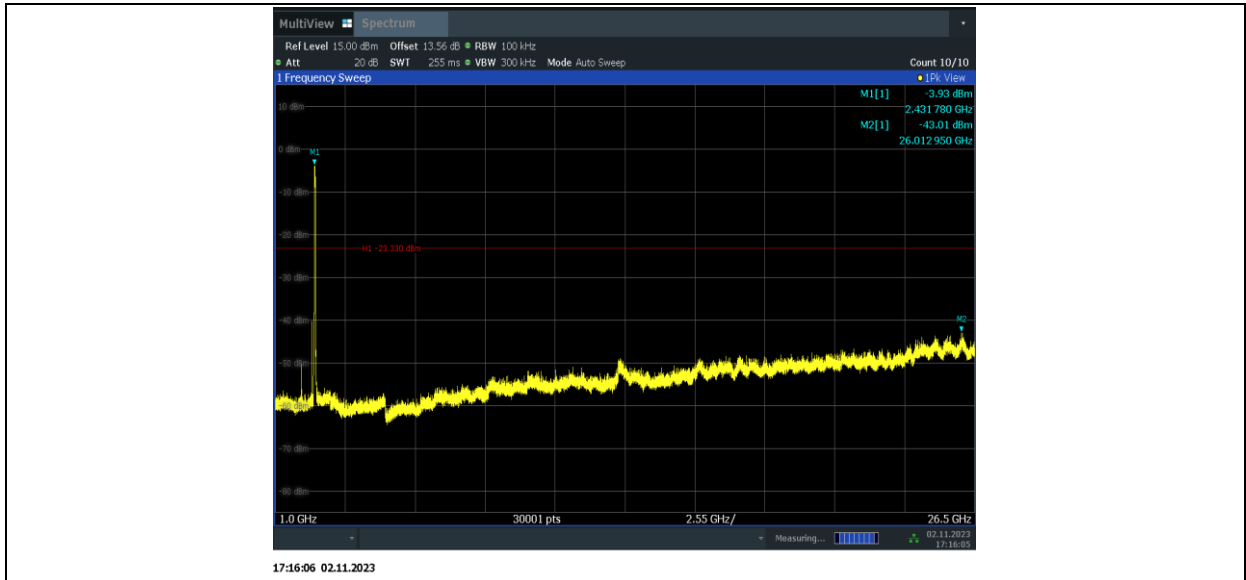


11N40SISO _2437_30~1000

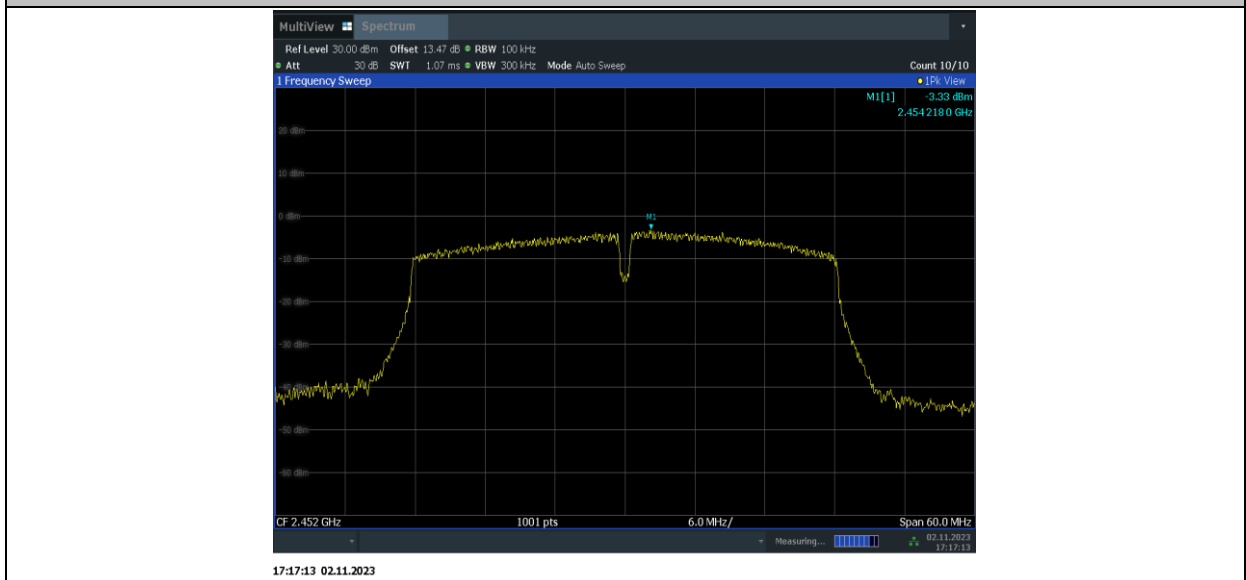


11N40SISO _2437_1000~26500



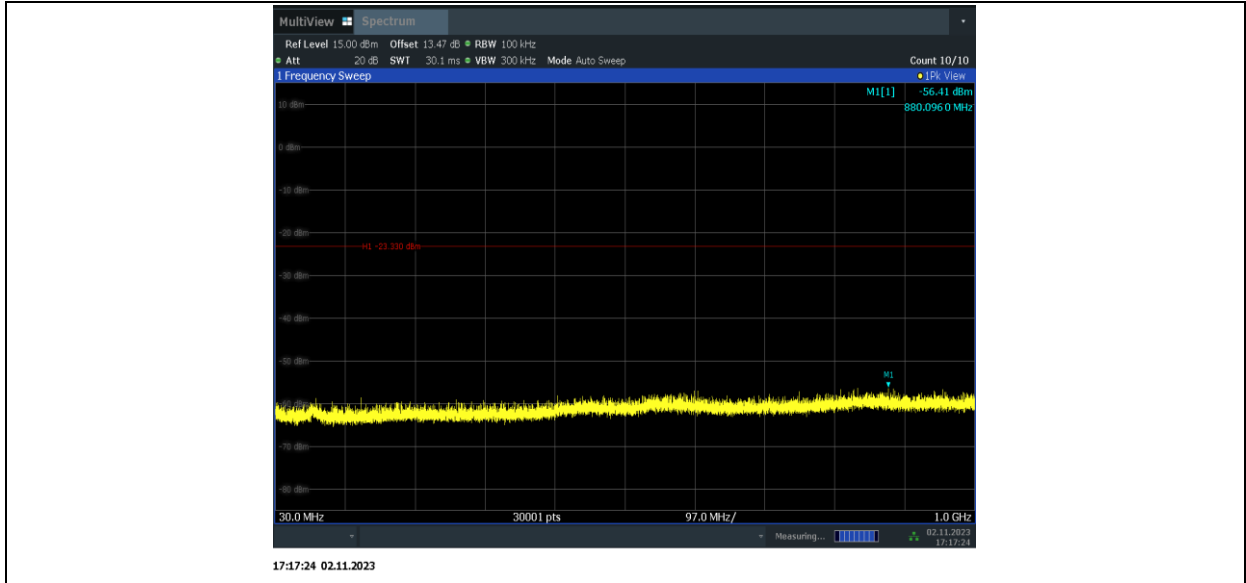
17:16:06 02.11.2023

11N40SISO_2452_0~Reference



17:17:13 02.11.2023

11N40SISO_2452_30~1000



11N40SISO_2452_1000~26500



Conclusion: Pass

A.6.2 Transmitter Spurious Emission – Radiated

Method of Measurement: See ANSI C63.10-2013-clause 6.4 & 6.5 & 6.6

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

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

Limit in restricted band:

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

Frequency (MHz)	Field strength(μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

EUT ID: EUT1

Measurement Results:

802.11b mode

Mode	Channel	Test Results	Conclusion
802.11b	1	Fig.A.6.2.1	P
	11	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Test Results	Conclusion
802.11g	1	Fig.A.6.2.3	P
	11	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Test Results	Conclusion
802.11n (HT20)	1	Fig.A.6.2.5	P
	11	Fig.A.6.2.6	P

802.11n-HT40 mode

Mode	Channel	Test Results	Conclusion
802.11n (HT40)	3	Fig.A.6.2.7	P
	9	Fig.A.6.2.8	P

Conclusion: Pass

Note:

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

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

The measurement results are obtained as described below:

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

Test graphs as below:

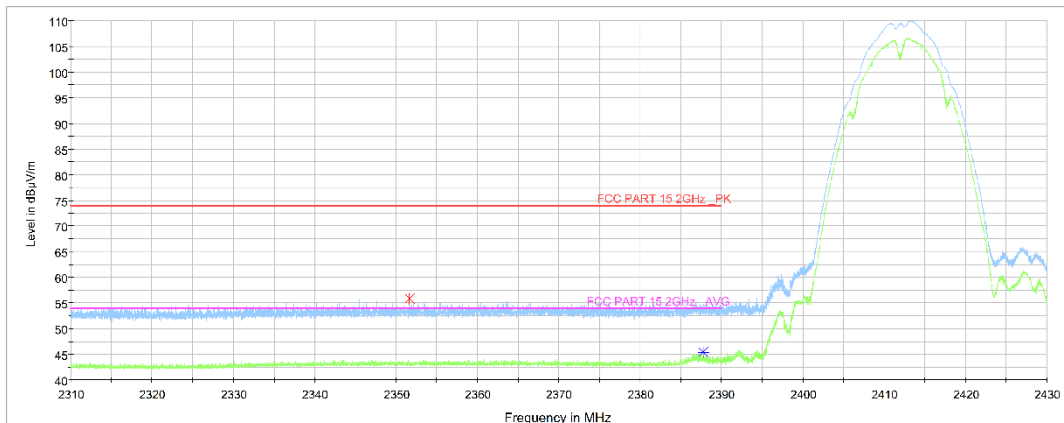


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

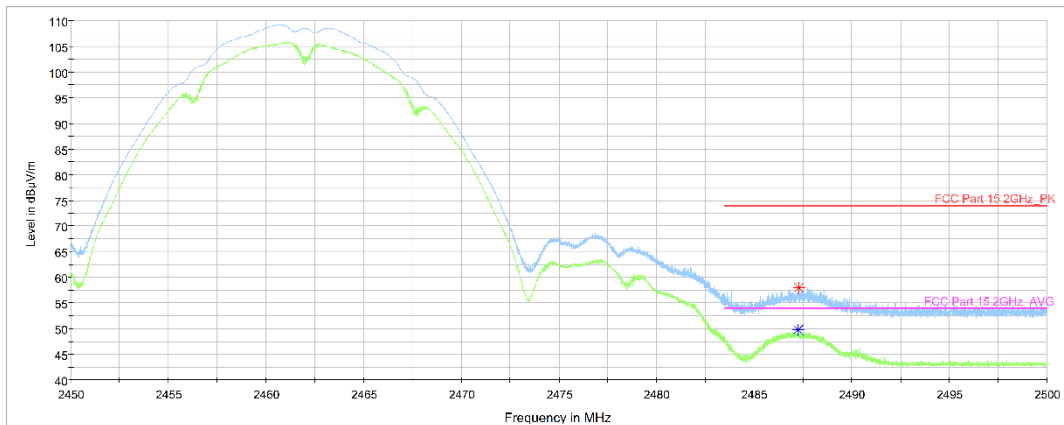


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

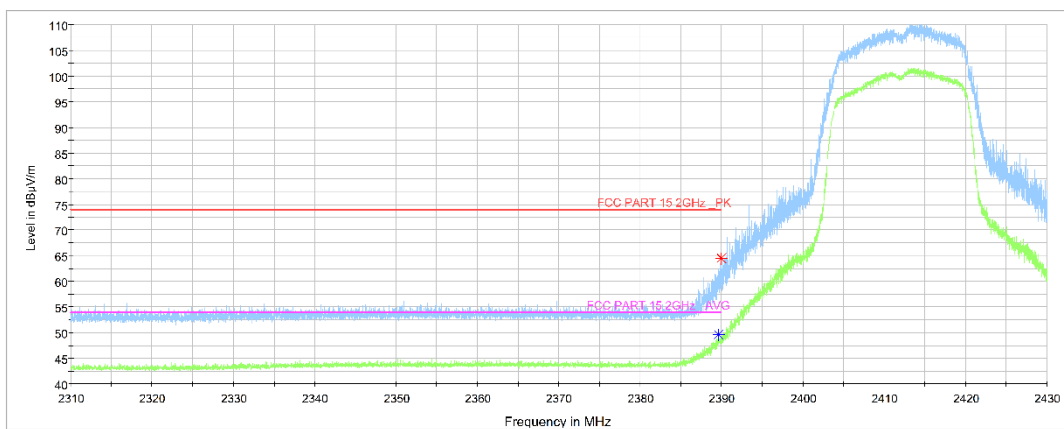


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

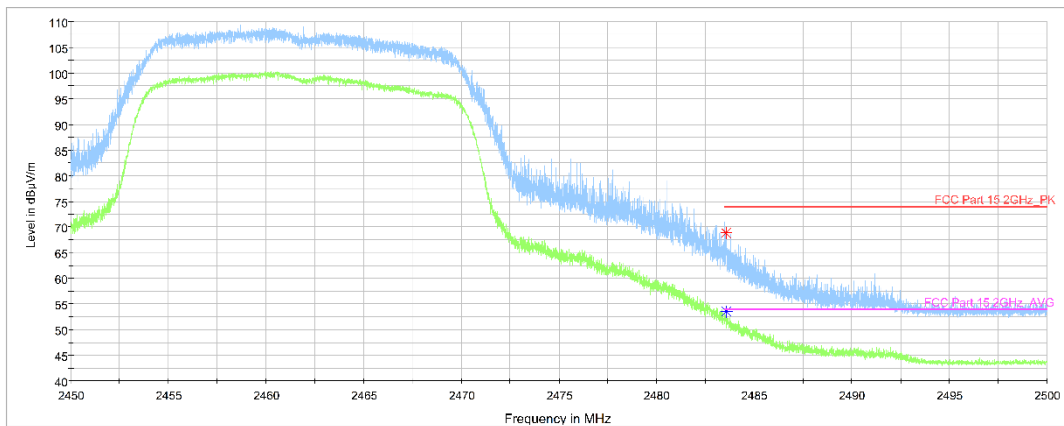


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

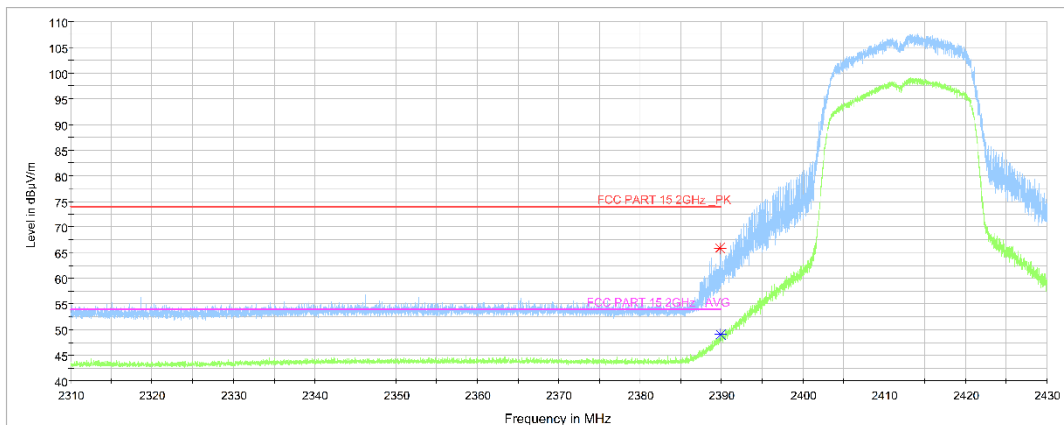


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

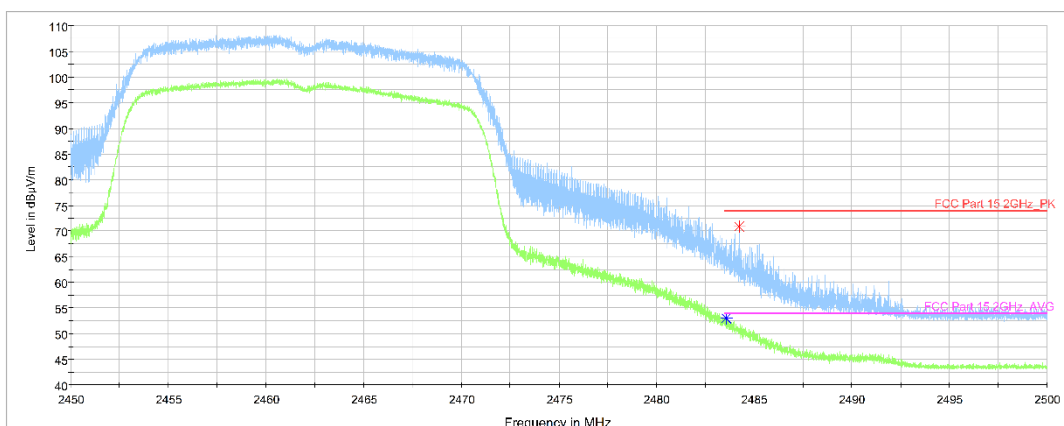


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

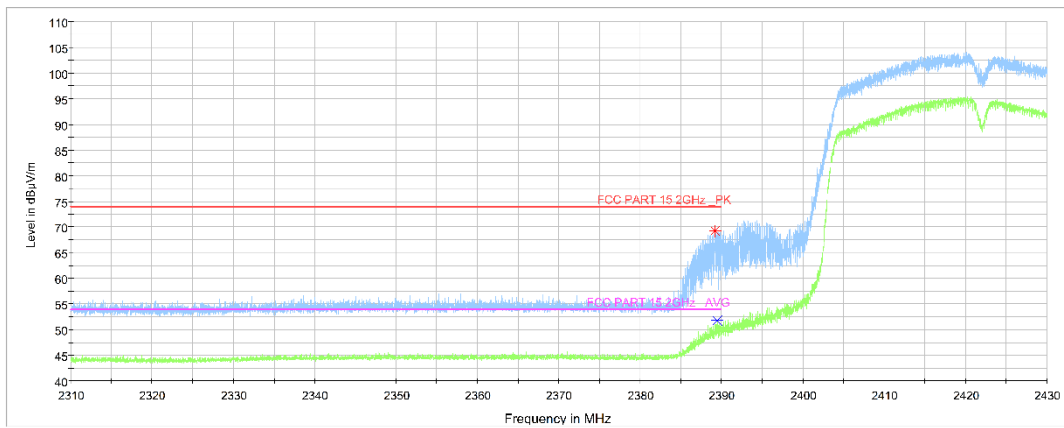


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

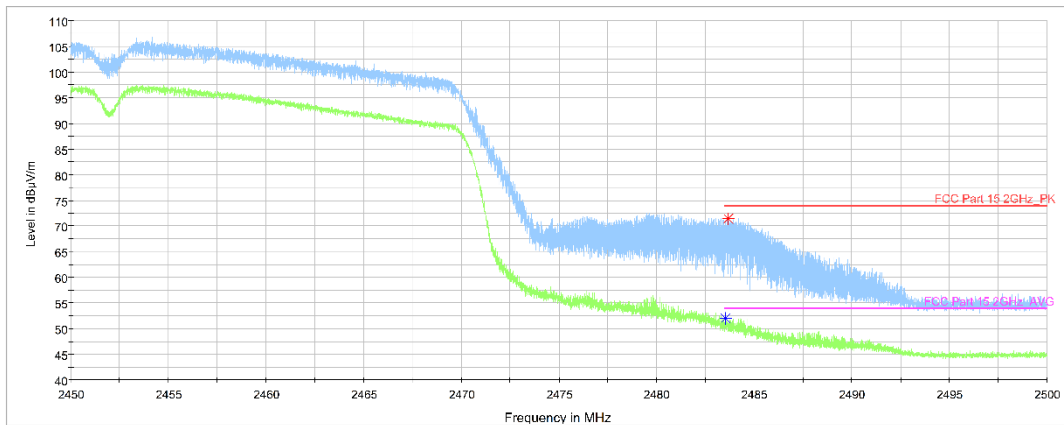


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

Peak
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.500	54.10	-29.40	46.00	37.50	74.00	19.90	V
4824.000	50.27	-37.70	33.00	54.97	74.00	23.73	H
14555.500	49.15	-29.00	41.90	36.25	74.00	24.85	H
11761.500	45.41	-32.90	39.20	39.11	74.00	28.59	H
9617.000	43.52	-34.30	37.60	40.22	74.00	30.48	H
2351.600	55.84	-19.60	28.20	47.24	74.00	18.16	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4874.000	53.36	-37.50	33.40	57.46	74.00	20.64	H
17934.000	53.36	-29.40	46.00	36.76	74.00	20.64	H
14079.000	49.01	-30.20	41.70	37.51	74.00	24.99	H
12929.500	45.42	-31.40	40.00	36.82	74.00	28.58	H
9217.500	43.66	-34.30	37.60	40.36	74.00	30.34	H
7339.500	42.30	-35.90	36.60	41.60	74.00	31.70	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17907.500	53.25	-29.40	46.00	36.65	74.00	20.75	V
4924.000	51.79	-37.60	33.30	56.09	74.00	22.21	H
14687.500	49.10	-30.00	41.50	37.60	74.00	24.90	V
11754.000	45.42	-32.90	39.20	39.12	74.00	28.58	H
9500.000	43.53	-34.60	37.70	40.43	74.00	30.47	H
2487.300	58.04	-19.70	28.20	49.54	74.00	15.96	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17938.500	53.40	-29.40	46.00	36.80	74.00	20.60	H
14577.000	49.62	-29.00	41.90	36.72	74.00	24.38	V
11895.500	45.44	-32.40	39.10	38.74	74.00	28.56	V
8699.500	43.90	-34.40	37.70	40.60	74.00	30.10	V
4829.000	42.71	-37.70	33.00	47.41	74.00	31.29	H
2390.000	64.46	-19.80	28.20	56.06	74.00	9.54	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17880.000	53.69	-29.40	46.00	37.09	74.00	20.31	V
14552.500	49.16	-30.60	41.90	37.86	74.00	24.84	H
4870.500	48.15	-37.50	33.40	52.25	74.00	25.85	H
12770.500	45.87	-31.80	39.60	37.97	74.00	28.13	V
8576.000	43.96	-35.00	37.50	41.46	74.00	30.04	H
7929.500	42.46	-35.40	36.80	41.06	74.00	31.54	V

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.000	54.57	-29.40	46.00	37.97	74.00	19.43	H
14557.500	49.23	-29.00	41.90	36.33	74.00	24.77	H
11924.000	45.47	-32.40	39.10	38.77	74.00	28.53	H
9222.500	43.56	-34.30	37.60	40.26	74.00	30.44	H
4925.000	43.09	-37.60	33.30	47.39	74.00	30.91	H
2485.000	63.94	-19.70	28.20	55.44	74.00	10.06	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17971.000	54.47	-29.40	46.00	37.87	74.00	19.53	H
13680.000	49.53	-31.00	41.00	39.53	74.00	24.47	V
11773.500	45.49	-32.90	39.20	39.19	74.00	28.51	H
9478.500	43.58	-34.60	37.70	40.48	74.00	30.42	H
4819.000	42.96	-37.70	33.00	47.66	74.00	31.04	H
2389.800	65.89	-19.80	28.20	57.49	74.00	8.11	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.000	53.43	-29.40	46.00	36.83	74.00	20.57	V
14569.500	50.12	-29.00	41.90	37.22	74.00	23.88	V
4872.000	45.67	-37.50	33.40	49.77	74.00	28.33	H
12920.000	45.66	-31.50	40.00	37.16	74.00	28.34	V
9030.500	44.07	-34.30	37.80	40.57	74.00	29.93	H
7579.000	43.00	-35.60	36.30	42.30	74.00	31.00	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17934.500	54.11	-29.40	46.00	37.51	74.00	19.89	V
14063.500	49.16	-30.20	41.70	37.66	74.00	24.84	H
12341.000	46.24	-32.30	39.00	39.64	74.00	27.76	H
8983.500	43.85	-34.70	37.70	40.85	74.00	30.15	H
4922.500	42.61	-37.60	33.30	46.91	74.00	31.39	H
2485.200	67.33	-19.70	28.20	58.83	74.00	6.67	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.500	53.82	-29.40	46.00	37.22	74.00	20.18	V
14670.000	49.18	-30.00	41.50	37.68	74.00	24.82	H
11809.000	45.50	-32.00	39.20	38.30	74.00	28.50	V
9125.000	43.80	-34.30	37.70	40.40	74.00	30.20	V
7435.500	43.06	-35.50	36.50	42.06	74.00	30.94	H
2389.200	69.31	-19.80	28.20	60.91	74.00	4.69	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17940.000	53.87	-29.40	46.00	37.27	74.00	20.13	V
14306.000	48.66	-29.90	41.80	36.76	74.00	25.34	H
12854.500	45.95	-31.90	39.90	37.95	74.00	28.05	H
8700.500	43.82	-34.40	37.70	40.52	74.00	30.18	H
7923.500	42.94	-35.40	36.80	41.54	74.00	31.06	H
4860.500	41.47	-37.50	33.40	45.57	74.00	32.53	H

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17922.500	53.55	-29.40	46.00	36.95	74.00	20.45	H
14311.000	49.22	-30.40	41.90	37.72	74.00	24.78	V
12799.500	45.88	-31.50	39.80	37.58	74.00	28.12	V
9031.000	43.94	-34.30	37.80	40.44	74.00	30.06	V
7840.000	42.58	-35.20	36.60	41.18	74.00	31.42	H
2485.400	69.53	-19.70	28.20	61.03	74.00	4.47	H

Average
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4824.000	48.37	-37.70	33.00	53.07	54.00	5.63	H
17960.500	44.33	-29.40	46.00	27.73	54.00	9.67	V
14560.500	39.39	-29.00	41.90	26.49	54.00	14.61	V
12767.000	35.57	-31.80	39.60	27.67	54.00	18.43	H
9167.500	34.00	-34.70	37.70	31.00	54.00	20.00	V
2387.700	45.35	-19.80	28.20	36.95	54.00	8.65	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4874.000	51.51	-37.50	33.40	55.61	54.00	2.49	H
17976.000	44.55	-29.40	46.00	27.95	54.00	9.45	V
14564.500	40.13	-29.00	41.90	27.23	54.00	13.87	H
11790.500	35.94	-32.00	39.20	28.74	54.00	18.06	H
9121.000	34.51	-34.30	37.70	31.11	54.00	19.49	H
7924.500	33.03	-35.40	36.80	31.63	54.00	20.97	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
4924.000	50.01	-37.60	33.30	54.31	54.00	3.99	H
17988.500	44.69	-29.40	46.00	28.09	54.00	9.31	V
14186.500	39.67	-30.20	41.70	28.17	54.00	14.33	V
12922.000	36.38	-31.40	40.00	27.78	54.00	17.62	H
8710.500	33.74	-34.40	37.70	30.44	54.00	20.26	H
2487.300	49.72	-19.70	28.20	41.22	54.00	4.28	H

802.11g

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17989.000	44.19	-29.40	46.00	27.59	54.00	9.81	H
14557.000	39.85	-29.00	41.90	26.95	54.00	14.15	V
11777.000	36.18	-32.90	39.20	29.88	54.00	17.82	H
4820.000	34.04	-37.70	33.00	38.74	54.00	19.96	H
8902.500	33.67	-34.80	37.80	30.67	54.00	20.33	H
2389.600	49.55	-19.80	28.20	41.15	54.00	4.45	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17975.000	44.18	-29.40	46.00	27.58	54.00	9.82	V
14561.500	39.42	-29.00	41.90	26.52	54.00	14.58	H
4876.500	36.84	-37.50	33.40	40.94	54.00	17.16	H
11862.500	35.92	-32.80	39.10	29.52	54.00	18.08	V
8855.500	33.93	-34.50	37.80	30.63	54.00	20.07	H
7906.000	32.96	-35.20	36.70	31.46	54.00	21.04	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17952.000	44.10	-29.40	46.00	27.50	54.00	9.90	H
14191.000	39.48	-30.20	41.70	27.98	54.00	14.52	H
12274.500	36.10	-32.50	39.00	29.60	54.00	17.90	H
4929.000	34.58	-37.60	33.30	38.88	54.00	19.42	H
9234.000	34.35	-34.30	37.60	31.05	54.00	19.65	V
2485.100	50.17	-19.70	28.20	41.67	54.00	3.83	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17992.000	44.30	-29.40	46.00	27.70	54.00	9.70	H
14561.000	39.52	-29.00	41.90	26.62	54.00	14.48	H
12800.000	36.05	-31.50	39.80	27.75	54.00	17.95	H
4820.000	35.23	-37.70	33.00	39.93	54.00	18.77	H
8715.500	34.87	-34.80	37.90	31.77	54.00	19.13	V
2389.900	49.08	-19.80	28.20	40.68	54.00	4.92	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17990.000	44.10	-29.40	46.00	27.50	54.00	9.90	V
14559.000	40.23	-29.00	41.90	27.33	54.00	13.77	H
4875.000	36.57	-37.50	33.40	40.67	54.00	17.43	H
11876.000	36.08	-32.80	39.10	29.68	54.00	17.92	H
9133.500	34.27	-34.30	37.70	30.87	54.00	19.73	H
7313.500	32.65	-35.40	36.60	31.45	54.00	21.35	H

Ch11

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17993.000	44.43	-29.40	46.00	27.83	54.00	9.57	V
14705.000	39.76	-30.20	41.40	28.66	54.00	14.24	H
11867.500	36.22	-32.80	39.10	29.82	54.00	17.78	H
4923.000	34.48	-37.60	33.30	38.78	54.00	19.52	H
8868.000	33.84	-34.80	37.80	30.84	54.00	20.16	H
2485.000	50.26	-19.70	28.20	41.76	54.00	3.74	H

802.11n-HT40

Ch3

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17980.000	44.24	-29.40	46.00	27.64	54.00	9.76	H
14207.500	40.10	-30.20	41.70	28.60	54.00	13.90	H
11881.500	35.87	-32.40	39.10	29.17	54.00	18.13	V
8694.000	34.42	-34.40	37.70	31.12	54.00	19.58	H
7332.000	33.05	-35.90	36.60	32.35	54.00	20.95	H
2389.500	51.81	-19.80	28.20	43.41	54.00	2.19	H

Ch6

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17983.000	44.21	-29.40	46.00	27.61	54.00	9.79	V
14679.500	39.84	-30.00	41.50	28.34	54.00	14.16	H
11886.000	36.54	-32.40	39.10	29.84	54.00	17.46	H
9457.500	34.86	-34.60	37.70	31.76	54.00	19.14	V
7319.500	32.97	-35.40	36.60	31.77	54.00	21.03	V
4867.500	32.81	-37.50	33.40	36.91	54.00	21.19	H

Ch9

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17974.500	44.15	-29.40	46.00	27.55	54.00	9.85	H
14205.500	39.88	-30.20	41.70	28.38	54.00	14.12	V
12783.000	36.35	-31.50	39.80	28.05	54.00	17.65	V
9030.500	34.38	-34.30	37.80	30.88	54.00	19.62	V
7434.500	33.16	-35.50	36.50	32.16	54.00	20.84	H
2485.200	50.44	-19.70	28.20	41.94	54.00	3.56	H

A.7. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.
- 5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	P
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 μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	P
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:

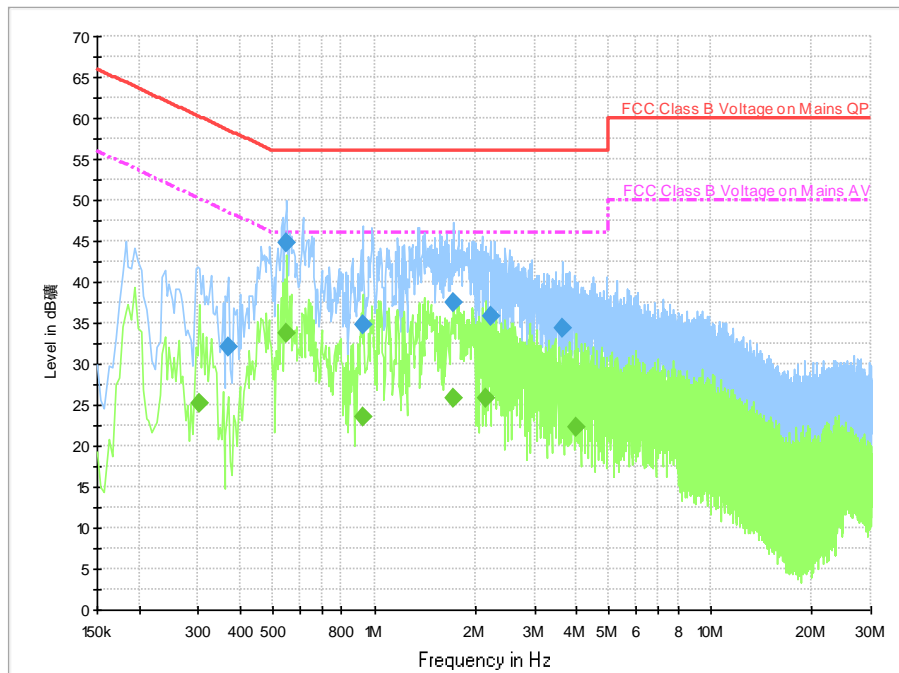


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

Note: 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)	Comment
0.370000	32.0	2000.0	9.000	On	L1	19.7	26.5	58.5	
0.550000	44.8	2000.0	9.000	On	L1	19.7	11.2	56.0	
0.922000	34.8	2000.0	9.000	On	N	19.6	21.2	56.0	
1.722000	37.6	2000.0	9.000	On	L1	19.6	18.4	56.0	
2.210000	35.8	2000.0	9.000	On	L1	19.6	20.2	56.0	
3.638000	34.3	2000.0	9.000	On	N	19.6	21.7	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.302000	25.2	2000.0	9.000	On	L1	19.7	24.9	50.2	
0.550000	33.8	2000.0	9.000	On	L1	19.7	12.2	46.0	
0.922000	23.4	2000.0	9.000	On	N	19.6	22.6	46.0	
1.722000	25.7	2000.0	9.000	On	L1	19.6	20.3	46.0	
2.146000	25.7	2000.0	9.000	On	N	19.6	20.3	46.0	
3.994000	22.4	2000.0	9.000	On	L1	19.6	23.6	46.0	

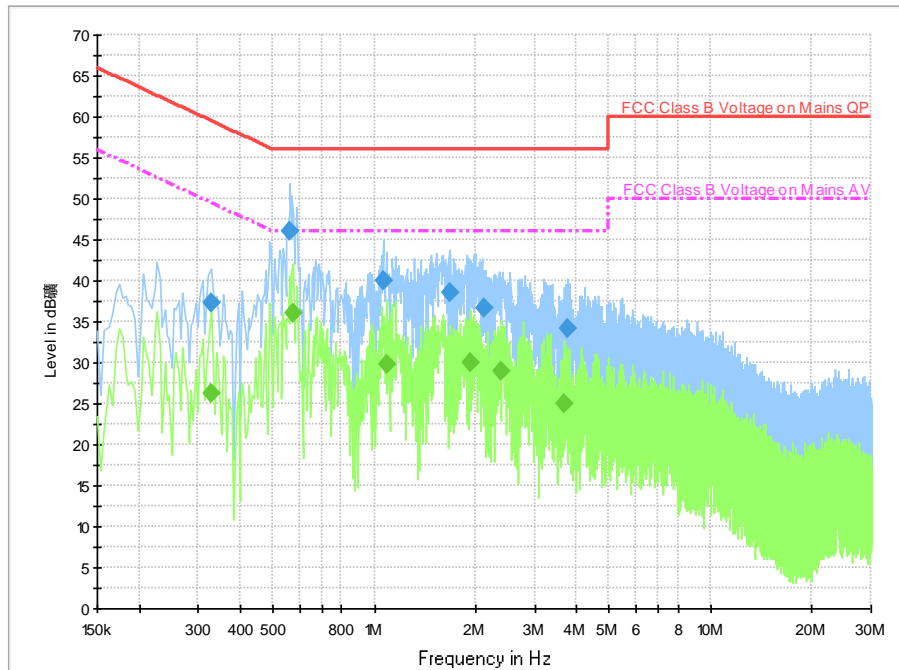


Fig.A.7.2 AC Powerline Conducted Emission-Idle

Note: 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)	Comment
0.326000	37.4	2000.0	9.000	On	N	19.6	22.2	59.6	
0.562000	46.0	2000.0	9.000	On	N	19.7	10.0	56.0	
1.062000	39.9	2000.0	9.000	On	L1	19.7	16.1	56.0	
1.670000	38.5	2000.0	9.000	On	N	19.6	17.5	56.0	
2.122000	36.6	2000.0	9.000	On	N	19.6	19.4	56.0	
3.754000	34.2	2000.0	9.000	On	N	19.6	21.8	56.0	

Final Result 2

Frequency (MHz)	CAverage (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)	Comment
0.326000	26.2	2000.0	9.000	On	N	19.6	23.3	49.6	
0.574000	36.1	2000.0	9.000	On	N	19.7	9.9	46.0	
1.086000	29.9	2000.0	9.000	On	N	19.6	16.1	46.0	
1.922000	30.1	2000.0	9.000	On	L1	19.6	15.9	46.0	
2.394000	29.1	2000.0	9.000	On	N	19.6	16.9	46.0	
3.670000	25.0	2000.0	9.000	On	N	19.6	21.0	46.0	

ANNEX B: EUT parameters

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

ANNEX C: Accreditation Certificate



Accredited Laboratory

A2LA has accredited

TELECOMMUNICATION TECHNOLOGY LABS, CAICT
Beijing, People's Republic of China

for technical competence in the field of
Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. 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 April 2017).



Presented this 26th day of June 2023.



Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 7049.01
Valid to July 31, 2024

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

END OF REPORT