

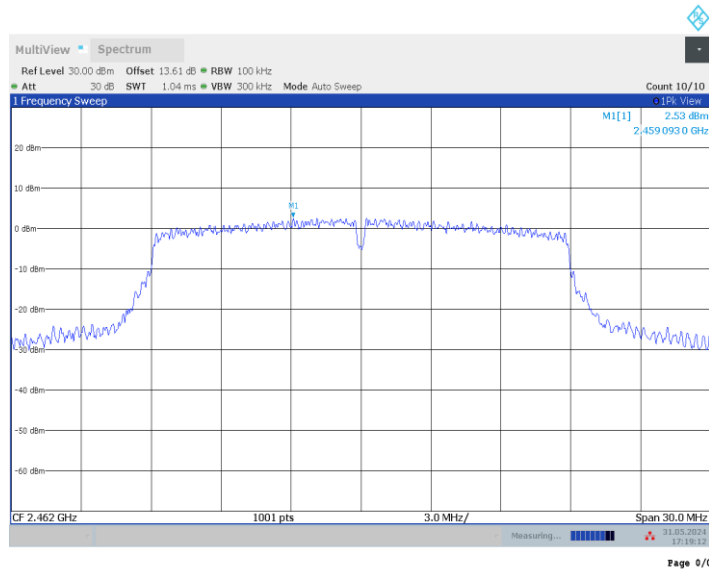


Fig.A.6.1.25 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

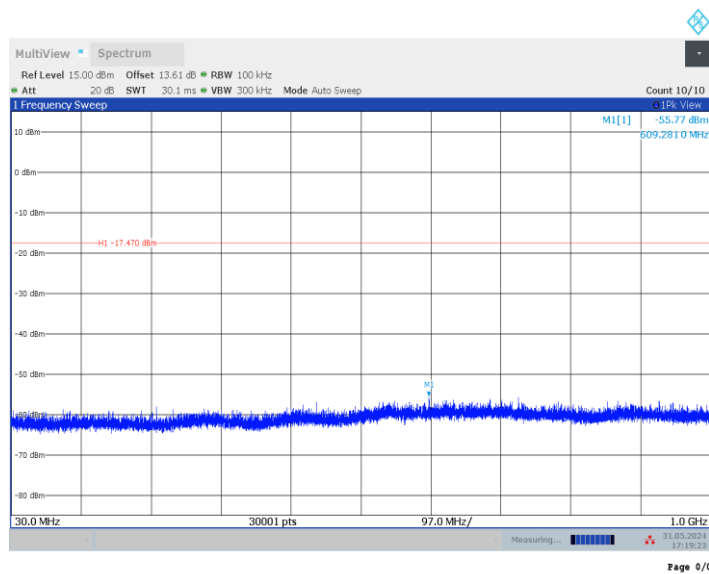


Fig.A.6.1.26 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

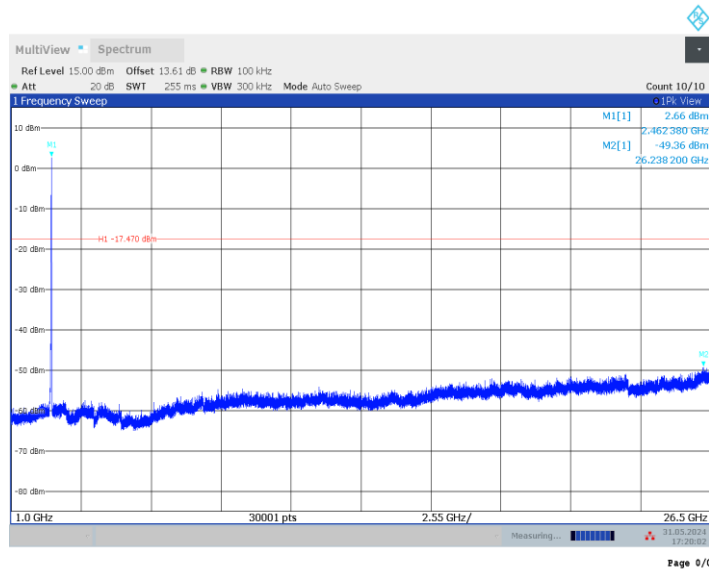


Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-26 GHz)

Conclusion: Pass

A.7. Radiated Unwanted Emission

Limits

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 (MHz)	Field strength($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	$2400/F(\text{kHz})$	300
0.490 - 1.705	$24000/F(\text{kHz})$	30
1.705 – 30.0	30	30

Frequency of emission (MHz)	Field strength ($\mu\text{V/m}$)	Field strength (dB $\mu\text{V/m}$)	Measurement distance (m)
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Note: When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor.

Test setup

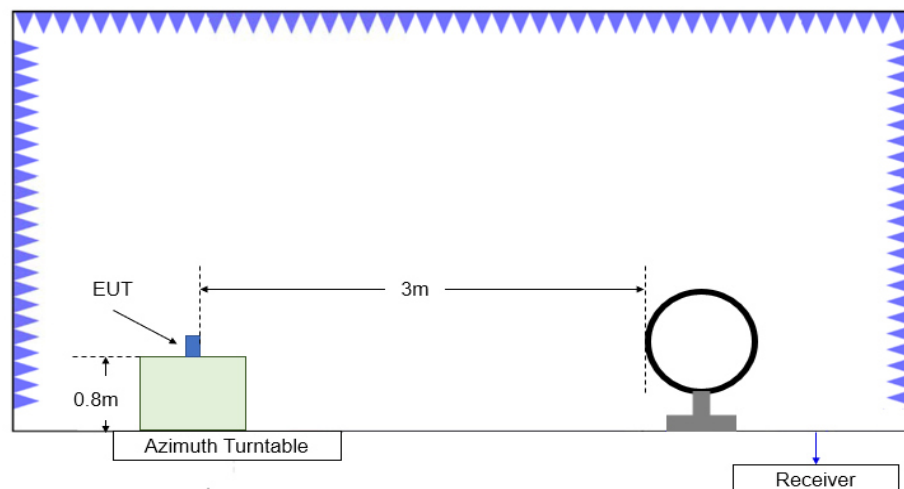


Figure A.2.1. Test Site Diagram (9kHz-30MHz)

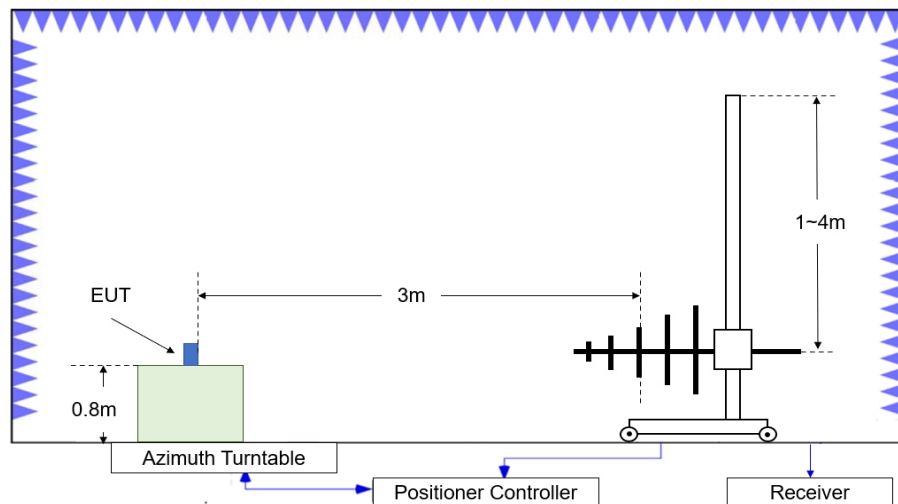


Figure A.2.2. Test Site Diagram (30MHz-1GHz)

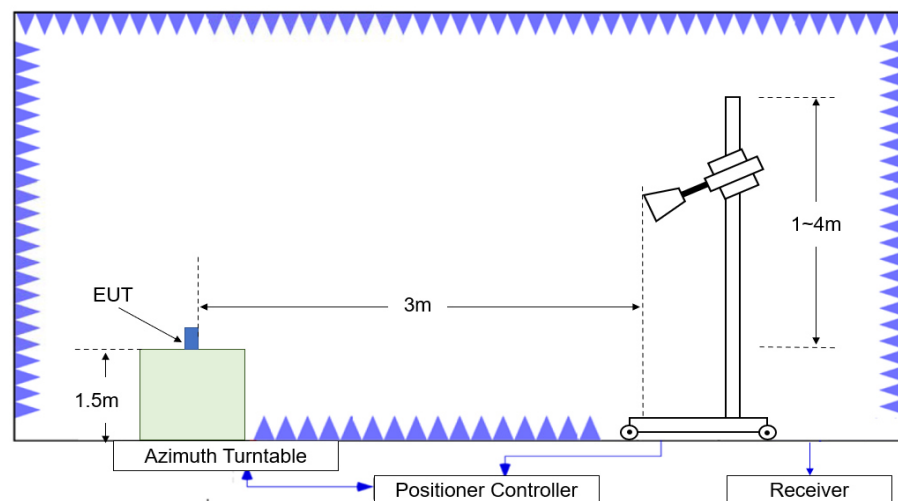


Figure A.2.3. Test Site Diagram (1GHz-40GHz)

Test Procedures

Radiated unwanted emissions from the EUT were measured according to ANSI C63.10.

Test setting

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100kHz/300kHz	5
1000-3000	1MHz/3MHz	15
3000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

Sample Calculation

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:

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

Test note

1. The EUT is operating at its maximum duty cycle and its maximum power control level.
2. Investigation has been done on all modes and modulations/data rates. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.
3. Spurious emissions for all channels were investigated and almost the same below 1GHz. According to FCC 47 CFR §15.31, emission levels are not report much lower than the limit by over 20dB
4. Measurement frequencies were performed from 9 kHz to the 10th harmonic of highest fundamental frequency or 40GHz, whichever is lower.

Test Result

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)
2388.302	61.33	4.61	31.66	25.06	74.00	12.67	V
2389.450	61.57	4.61	31.67	25.28	74.00	12.43	H
4824.000	48.43	-35.02	33.86	49.59	74.00	25.57	V
7235.000	43.32	-33.17	35.64	40.85	74.00	30.68	V
9647.500	44.84	-32.05	36.40	40.50	74.00	29.16	V
12058.500	47.02	-29.99	38.80	38.21	74.00	26.98	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)
2353.000	45.38	-35.92	31.24	50.06	74.00	28.63	V
2511.400	45.45	-35.84	32.45	48.85	74.00	28.55	V
4873.500	49.74	-34.49	33.79	50.44	74.00	24.26	H
7311.500	43.35	-33.10	35.40	41.04	74.00	30.66	V
9748.000	44.53	-31.86	36.60	39.79	74.00	29.47	H
12184.500	46.52	-29.45	38.80	37.18	74.00	27.48	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)
2484.085	62.10	4.65	32.31	25.15	74.00	11.90	V
2484.925	62.20	4.65	32.31	25.25	74.00	11.80	H
4923.500	51.34	-34.80	33.85	52.28	74.00	22.66	V
7385.500	44.67	-32.81	35.47	42.01	74.00	29.33	V
9848.000	43.82	-32.00	36.60	39.22	74.00	30.18	H
12310.000	46.05	-29.70	38.60	37.15	74.00	27.96	V

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)
2389.940	66.98	4.61	31.66	30.71	74.00	7.02	V
2389.982	67.65	4.61	31.68	31.35	74.00	6.35	H
4824.500	42.69	-35.02	33.85	43.85	74.00	31.31	V
7235.500	42.55	-33.17	35.64	40.08	74.00	31.45	V
9649.500	44.43	-32.05	36.40	40.08	74.00	29.57	H
12060.500	46.70	-29.99	38.80	37.89	74.00	27.30	V

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)
2354.800	44.97	-35.88	31.26	49.60	74.00	29.03	H
2517.200	46.15	-36.11	32.47	49.79	74.00	27.85	H
4880.500	45.15	-34.39	33.82	45.72	74.00	28.85	V
7309.500	43.72	-33.11	35.40	41.43	74.00	30.28	V
9748.500	44.19	-31.86	36.60	39.45	74.00	29.81	V
12185.000	46.59	-29.45	38.80	37.24	74.00	27.41	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)
2483.575	67.40	4.65	32.30	30.44	74.00	6.60	V
2483.790	66.49	4.65	32.30	29.53	74.00	7.51	V
4922.500	46.57	-34.79	33.85	47.50	74.00	27.43	H
7387.500	43.78	-32.81	35.48	41.11	74.00	30.22	H
9848.000	45.21	-32.00	36.60	40.61	74.00	28.79	H
12310.500	47.24	-29.70	38.60	38.34	74.00	26.76	V

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)
2389.548	68.44	4.61	31.68	32.15	74.00	5.56	V
2389.576	68.63	4.61	31.68	32.33	74.00	5.38	H
4824.000	43.17	-35.02	33.86	44.34	74.00	30.83	V
7236.500	43.12	-33.18	35.65	40.65	74.00	30.88	H
9648.500	45.18	-32.05	36.40	40.83	74.00	28.82	V
12060.000	47.07	-29.99	38.80	38.26	74.00	26.93	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)
2331.800	45.15	-36.12	31.27	50.01	74.00	28.85	V
2524.600	46.15	-36.33	32.50	49.98	74.00	27.85	H
4883.000	44.96	-34.36	33.83	45.48	74.00	29.04	H
7312.000	43.77	-33.10	35.40	41.46	74.00	30.23	V
9749.000	42.89	-31.86	36.60	38.15	74.00	31.12	V
12185.000	46.48	-29.45	38.80	37.13	74.00	27.52	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)
2483.800	69.60	4.65	32.30	32.65	74.00	4.40	V
2483.990	68.22	4.65	32.30	31.27	74.00	5.78	V
4925.000	45.59	-34.82	33.85	46.55	74.00	28.42	V
7386.000	44.02	-32.81	35.47	41.36	74.00	29.98	V
9848.000	44.56	-32.00	36.60	39.96	74.00	29.44	V
12311.000	46.42	-29.71	38.60	37.53	74.00	27.58	V

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)
2387.658	65.44	4.61	31.65	29.17	74.00	8.57	H
2388.946	62.23	4.61	31.67	25.95	74.00	11.77	H
4843.500	42.31	-34.91	33.74	43.48	74.00	31.69	V
7265.500	42.66	-33.31	35.61	40.36	74.00	31.34	V
9687.500	44.69	-31.89	36.48	40.11	74.00	29.31	V
12110.000	46.20	-29.78	38.80	37.18	74.00	27.80	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)
2316.600	44.90	-36.36	31.33	49.93	74.00	29.10	V
2532.400	37.24	-36.17	32.53	40.88	74.00	36.76	V
4882.500	44.43	-34.37	33.83	44.97	74.00	29.57	H
7311.000	42.72	-33.10	35.40	40.42	74.00	31.28	V
9747.500	44.47	-31.86	36.60	39.73	74.00	29.53	V
12184.500	47.38	-29.45	38.80	38.04	74.00	26.62	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)
2483.740	65.38	4.65	32.30	28.42	74.00	8.62	V
2483.800	65.86	4.65	32.30	28.91	74.00	8.14	H
4895.500	45.13	-34.46	33.88	45.71	74.00	28.87	V
7356.000	44.13	-32.86	35.41	41.58	74.00	29.87	V
9808.500	44.93	-31.93	36.52	40.34	74.00	29.07	H
12261.000	46.58	-29.55	38.68	37.46	74.00	27.42	V

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)
2383.140	47.97	4.60	31.60	11.77	54.00	6.03	V
2387.160	48.08	4.61	31.65	11.83	54.00	5.92	V
4823.667	43.97	-35.02	33.86	45.13	54.00	10.03	H
7236.000	30.61	-33.18	35.64	28.14	54.00	23.40	V
9648.000	32.14	-32.05	36.40	27.79	54.00	21.86	H
12060.000	34.56	-29.99	38.80	25.75	54.00	19.44	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)
2388.030	47.97	4.61	31.66	11.70	54.00	6.03	V
2485.560	48.58	4.65	32.31	11.62	54.00	5.42	V
4874.000	46.16	-34.48	33.80	46.84	54.00	7.85	V
7311.000	31.41	-33.10	35.40	29.12	54.00	22.59	H
9748.000	32.31	-31.86	36.60	27.57	54.00	21.69	H
12185.000	34.69	-29.45	38.80	25.34	54.00	19.31	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)
2484.120	48.65	4.65	32.31	11.70	54.00	5.35	V
2488.740	48.66	4.64	32.33	11.69	54.00	5.34	V
4924.000	48.40	-34.80	33.85	49.35	54.00	5.60	V
7386.000	32.09	-32.81	35.47	29.43	54.00	21.91	H
9848.000	32.38	-32.00	36.60	27.78	54.00	21.62	H
12310.000	34.46	-29.70	38.60	25.56	54.00	19.54	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)
2389.710	48.18	4.61	31.64	11.94	54.00	5.82	V
2389.740	48.18	4.61	31.67	11.90	54.00	5.82	V
4826.667	31.47	-35.02	33.84	32.64	54.00	22.53	H
7236.000	30.53	-33.18	35.64	28.06	54.00	23.47	H
9648.000	32.04	-32.05	36.40	27.69	54.00	21.96	V
12060.000	34.50	-29.99	38.80	25.69	54.00	19.50	V

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)
2388.690	48.03	4.61	31.67	11.75	54.00	5.97	V
2483.970	48.75	4.65	32.30	11.80	54.00	5.25	V
4875.000	32.30	-34.47	33.80	32.97	54.00	21.70	H
7311.000	31.47	-33.10	35.40	29.17	54.00	22.53	V
9748.000	32.24	-31.86	36.60	27.50	54.00	21.76	V
12185.000	34.74	-29.45	38.80	25.39	54.00	19.26	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)
2483.850	49.82	4.65	32.31	12.86	54.00	4.18	V
2483.910	49.83	4.64	32.33	12.86	54.00	4.17	V
4926.333	33.59	-34.83	33.85	34.58	54.00	20.41	V
7386.000	31.90	-32.81	35.47	29.24	54.00	22.10	V
9848.000	32.02	-32.00	36.60	27.42	54.00	21.98	H
12310.000	34.27	-29.70	38.60	25.37	54.00	19.73	V

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)
2389.950	50.05	4.62	31.68	13.75	54.00	3.95	V
2389.980	50.06	4.62	31.68	13.76	54.00	3.94	V
4828.000	31.47	-35.01	33.83	32.65	54.00	22.53	V
7236.000	30.49	-33.18	35.64	28.02	54.00	23.51	H
9648.000	31.99	-32.05	36.40	27.64	54.00	22.01	V
12060.000	34.47	-29.99	38.80	25.66	54.00	19.53	V

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)
2388.450	47.97	4.61	31.66	11.70	54.00	6.03	V
2484.840	48.57	4.65	32.31	11.61	54.00	5.43	V
4873.667	31.96	-34.49	33.79	32.65	54.00	22.04	V
7311.000	31.40	-33.10	35.40	29.10	54.00	22.60	V
9748.000	32.10	-31.86	36.60	27.36	54.00	21.90	H
12185.000	34.72	-29.45	38.80	25.37	54.00	19.28	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)
2485.470	48.70	4.65	32.31	11.74	54.00	5.30	V
2489.850	48.66	4.64	32.34	11.69	54.00	5.34	V
4922.333	33.79	-34.78	33.86	34.72	54.00	20.21	V
7386.000	32.05	-32.81	35.47	29.39	54.00	21.95	V
9848.000	32.13	-32.00	36.60	27.53	54.00	21.87	V
12310.000	34.33	-29.70	38.60	25.44	54.00	19.67	V

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)
2386.980	48.03	4.61	31.64	11.78	54.00	5.97	V
2389.290	48.06	4.61	31.67	11.77	54.00	5.94	V
4844.000	29.90	-34.90	33.74	31.06	54.00	24.10	H
7266.000	30.94	-33.31	35.60	28.65	54.00	23.06	V
9688.000	32.33	-31.89	36.48	27.74	54.00	21.67	H
12110.000	34.63	-29.78	38.80	25.61	54.00	19.37	V

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)
2388.720	48.06	4.61	31.67	11.78	54.00	5.95	V
2494.020	48.68	4.63	32.36	11.69	54.00	5.32	V
4882.667	31.71	-34.36	33.83	32.24	54.00	22.29	H
7311.000	31.41	-33.10	35.40	29.11	54.00	22.59	H
9748.000	32.17	-31.86	36.60	27.43	54.00	21.84	H
12185.000	34.51	-29.45	38.80	25.16	54.00	19.49	V

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)
2483.610	50.23	4.65	32.30	13.27	54.00	3.78	V
2483.670	50.24	4.65	32.30	13.29	54.00	3.76	V
4904.000	32.09	-34.56	33.89	32.76	54.00	21.91	V
7356.000	31.68	-32.86	35.41	29.13	54.00	22.32	H
9808.000	31.86	-31.93	36.52	27.27	54.00	22.14	V
12260.000	33.93	-29.55	38.68	24.80	54.00	20.07	V

Band edge compliance

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.1	P
	11	2.45GHz~2.50GHz---H	Fig.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.3	P
	11	2.45GHz~2.50GHz---H	Fig.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.5	P
	11	2.45GHz~2.50GHz---H	Fig.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	3	2.31GHz~2.43GHz---L	Fig.7	P
	9	2.45GHz~2.50GHz---H	Fig.8	P

Test graphs as below:

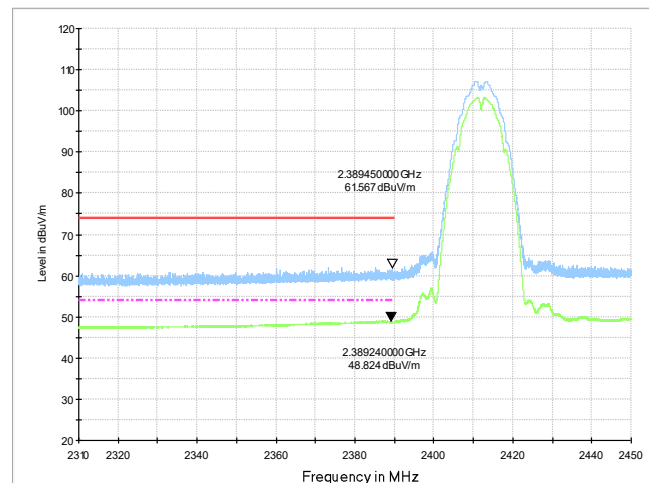


Fig.A.7.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

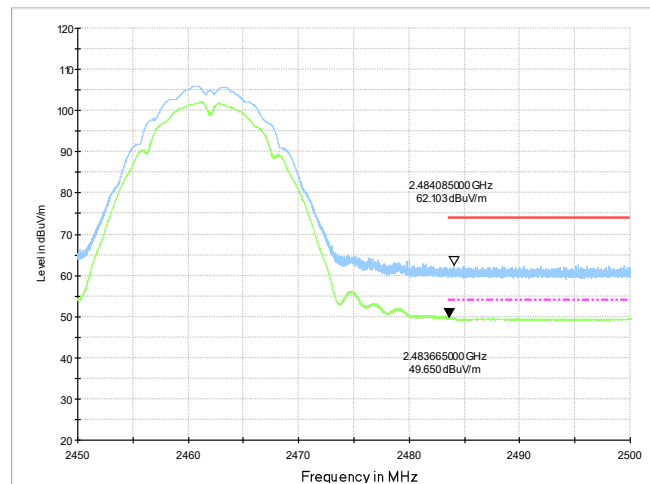


Fig.A.7.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

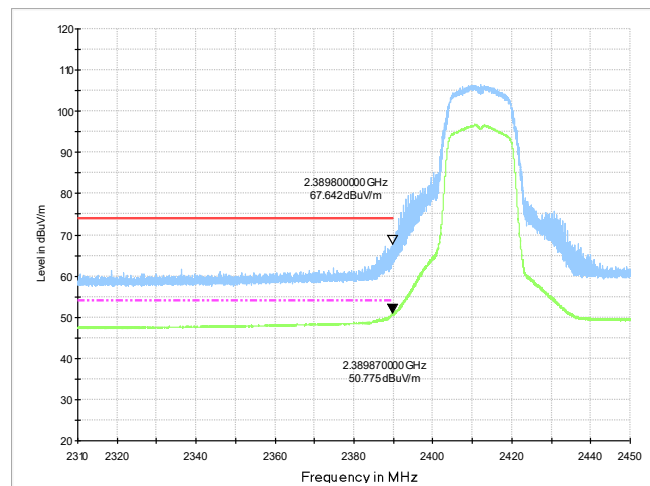


Fig.A.7.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

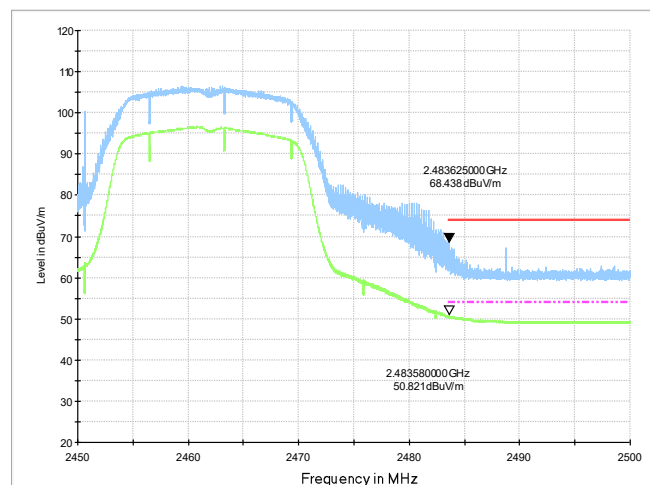


Fig.A.7.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

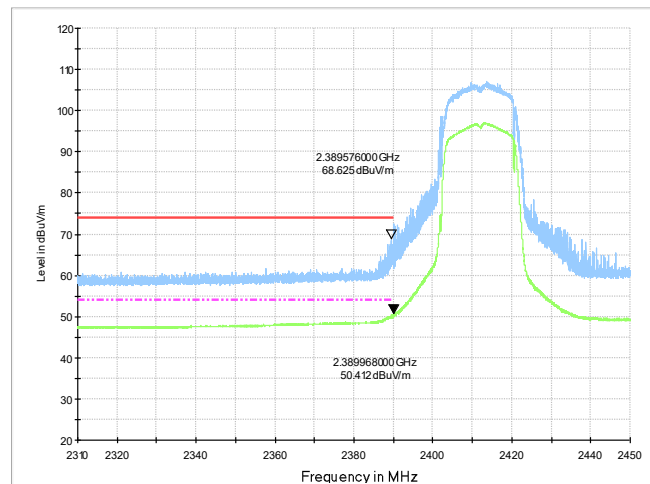


Fig.A.7.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.43GHz

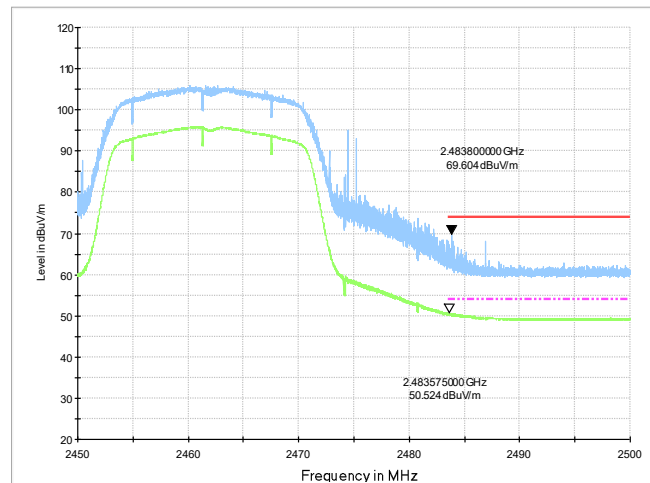


Fig.A.7.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

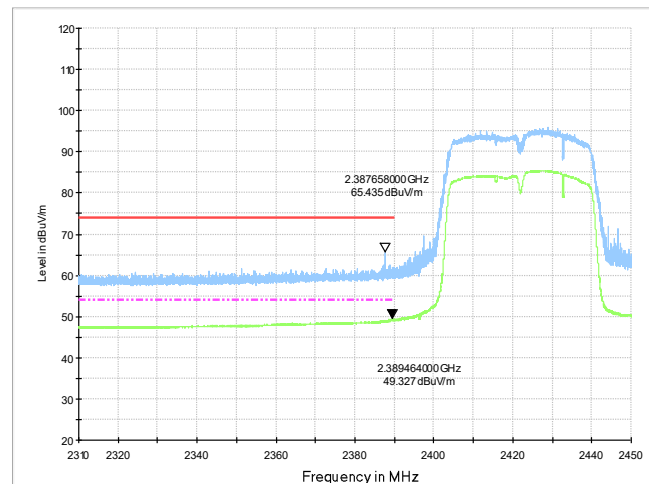


Fig.A.7.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.43GHz

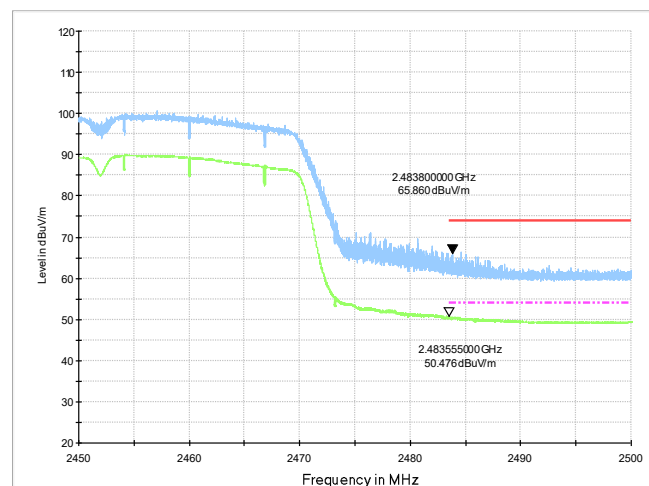


Fig.A.7.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

A.8. AC Power-line Conducted Emission

Summary

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section

Method of Measurement:

See Clause 6.2 of ANSI C63.10 specifically.

See Clause 4 and Clause 5 of ANSI C63.10 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.

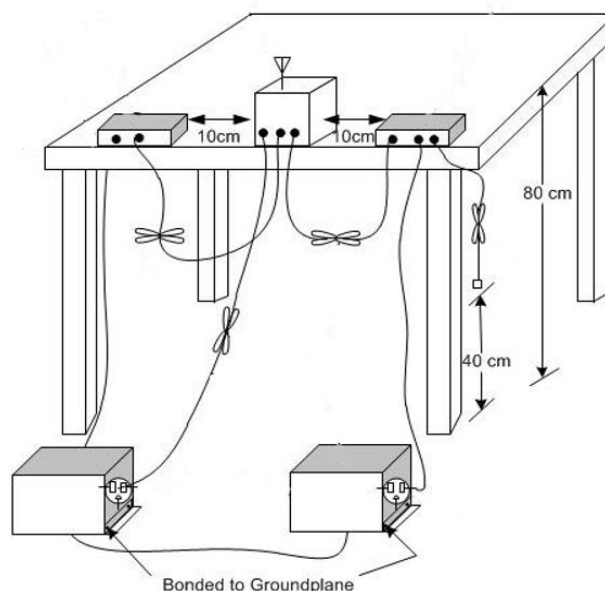
The measurement bandwidth is:

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

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Test setup



Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.8.1	Fig.A.8.2	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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.8.1	Fig.A.8.2	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:

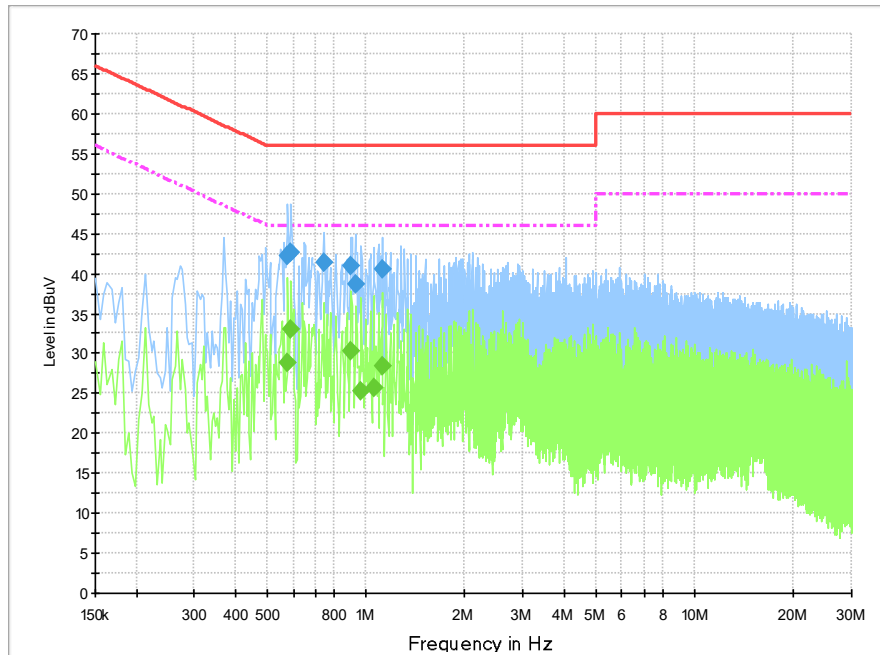


Fig.A.8.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.577500	42.1	2000.0	9.000	On	N	20.1	13.9	56.0	
0.591000	42.7	2000.0	9.000	On	N	20.1	13.3	56.0	
0.748500	41.3	2000.0	9.000	On	L1	20.0	14.7	56.0	
0.901500	41.0	2000.0	9.000	On	L1	19.9	15.0	56.0	
0.928500	38.7	2000.0	9.000	On	L1	19.9	17.3	56.0	
1.122000	40.5	2000.0	9.000	On	L1	19.9	15.5	56.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.577500	28.9	2000.0	9.000	On	N	20.1	17.1	46.0	
0.591000	33.1	2000.0	9.000	On	L1	20.0	12.9	46.0	
0.901500	30.2	2000.0	9.000	On	L1	19.9	15.8	46.0	
0.964500	25.2	2000.0	9.000	On	N	20.0	20.8	46.0	
1.059000	25.7	2000.0	9.000	On	N	20.0	20.3	46.0	
1.122000	28.5	2000.0	9.000	On	L1	19.9	17.5	46.0	

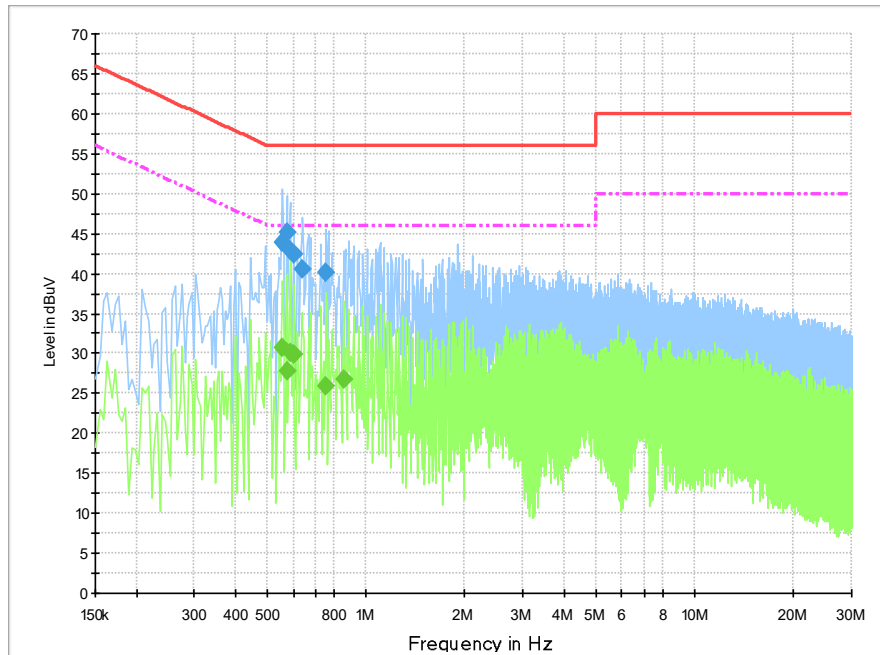


Fig.A.8.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.555000	43.9	2000.0	9.000	On	N	20.2	12.1	56.0	
0.573000	45.1	2000.0	9.000	On	L1	20.0	11.0	56.0	
0.586500	42.9	2000.0	9.000	On	N	20.1	13.1	56.0	
0.600000	42.4	2000.0	9.000	On	N	20.1	13.6	56.0	
0.640500	40.5	2000.0	9.000	On	N	20.1	15.5	56.0	
0.757500	40.2	2000.0	9.000	On	L1	20.0	15.8	56.0	

Final Result 2

Frequency (MHz)	CAverage (dB μ V)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)	Comment
0.555000	30.6	2000.0	9.000	On	N	20.2	15.4	46.0	
0.573000	27.7	2000.0	9.000	On	L1	20.0	18.3	46.0	
0.586500	30.0	2000.0	9.000	On	N	20.1	16.0	46.0	
0.600000	29.8	2000.0	9.000	On	N	20.1	16.2	46.0	
0.757500	25.8	2000.0	9.000	On	N	20.1	20.2	46.0	
0.852000	26.7	2000.0	9.000	On	L1	19.9	19.3	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 McInturf, 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*****