

Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

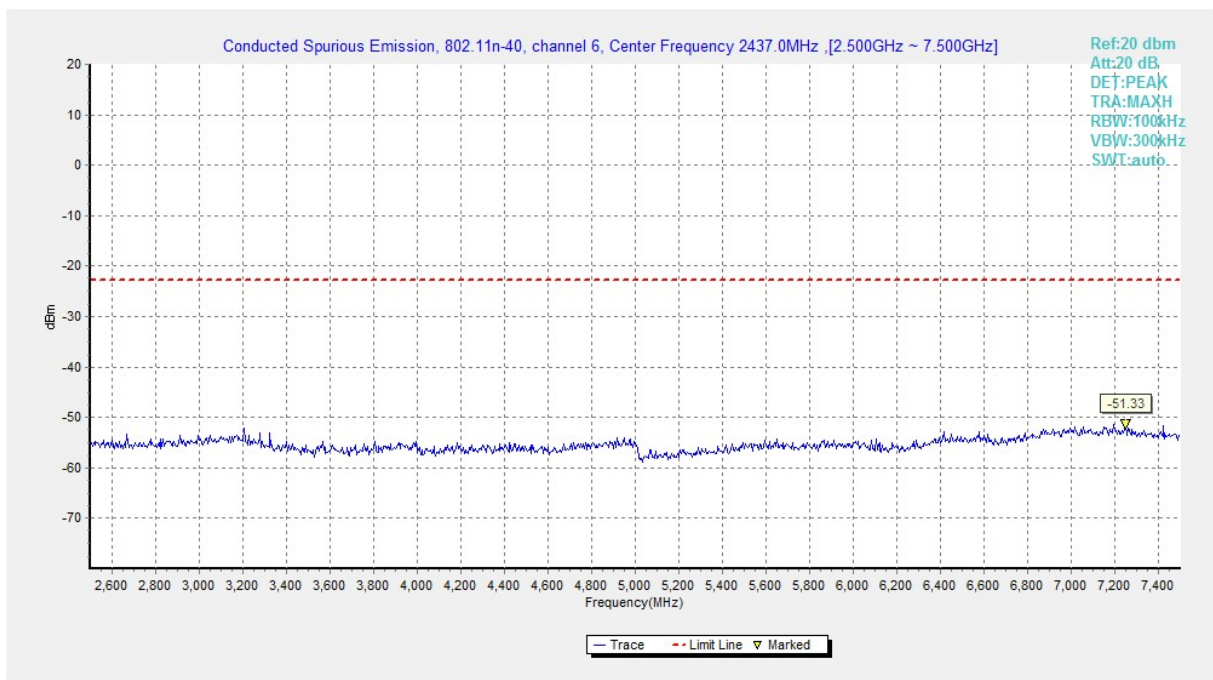


Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

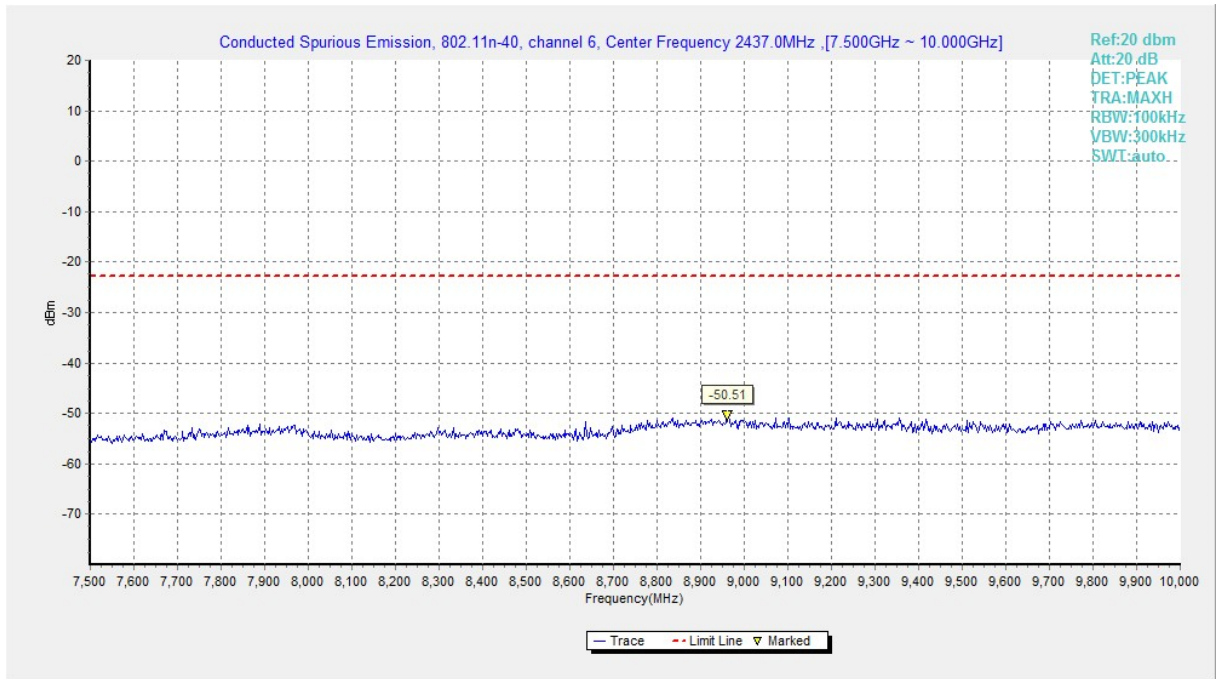


Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

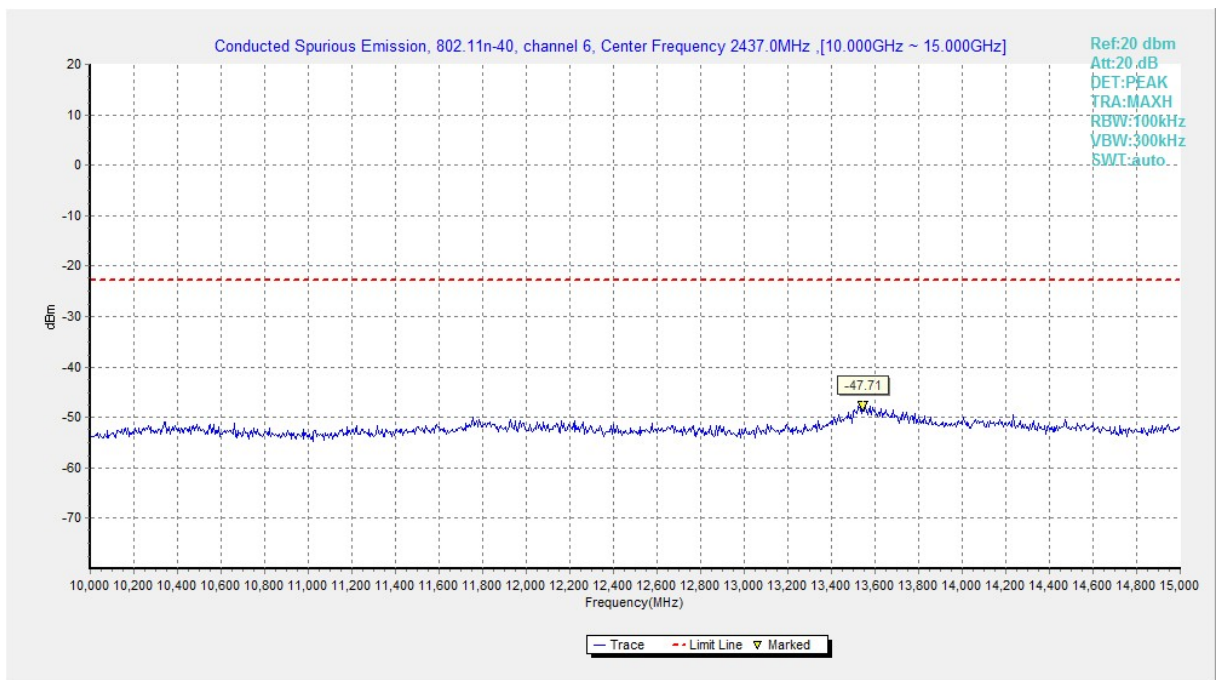


Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)

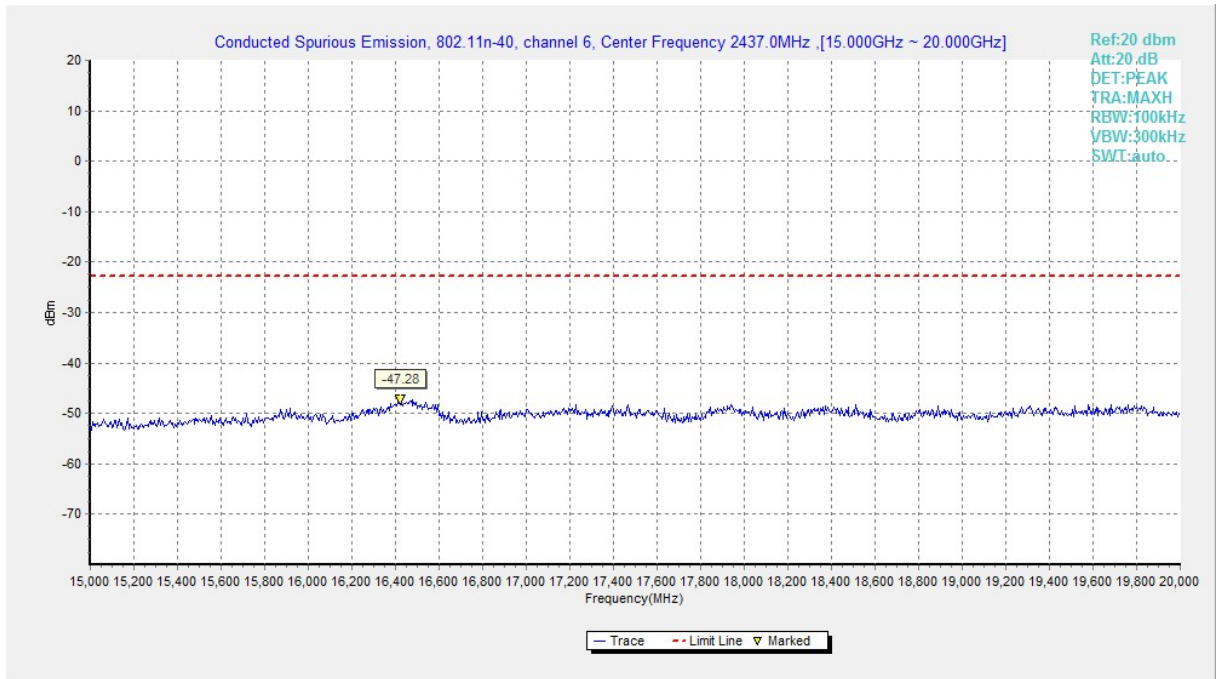


Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

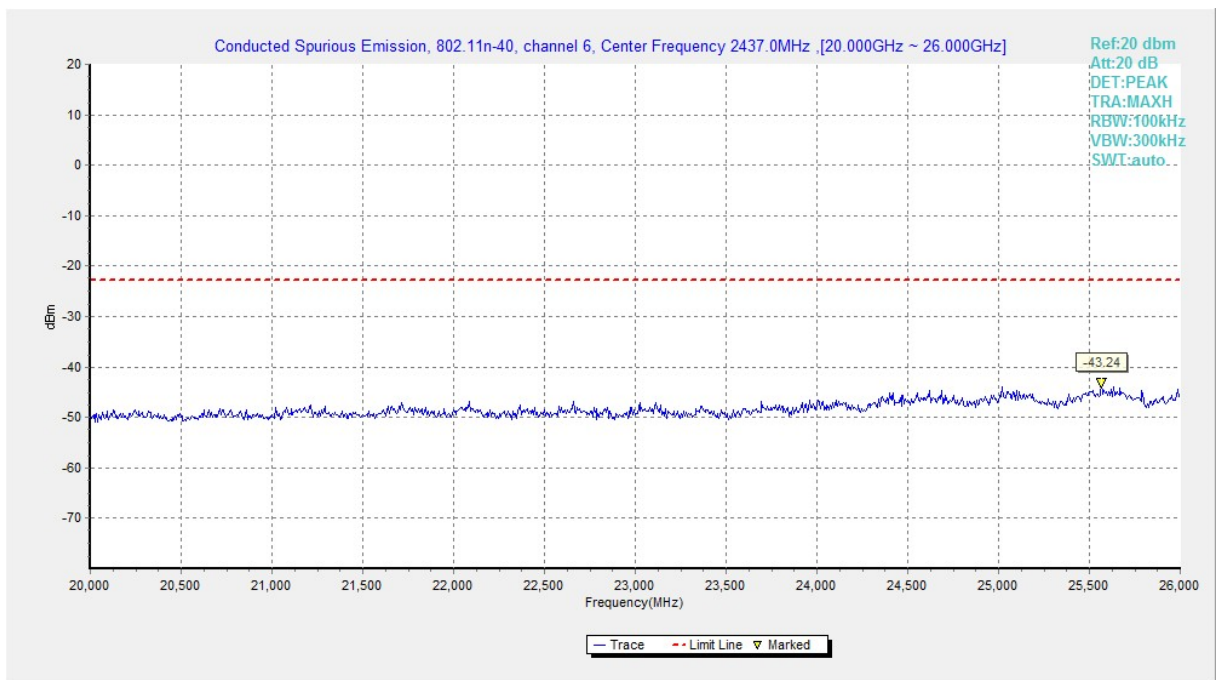


Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)

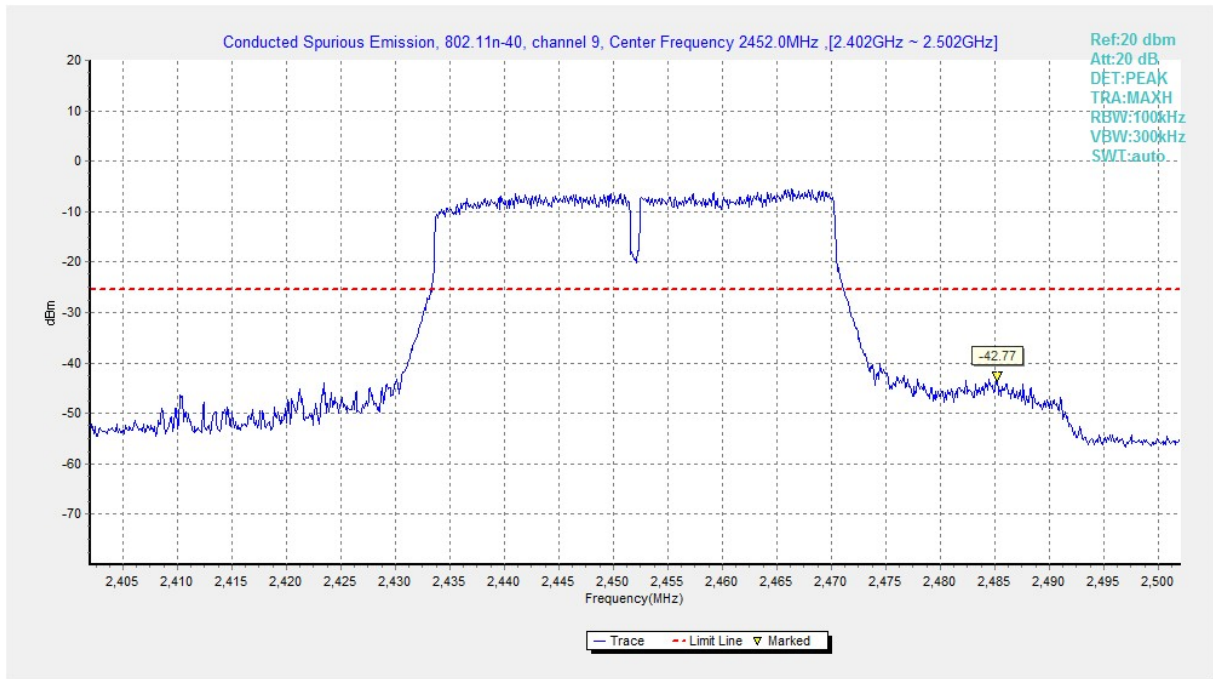


Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

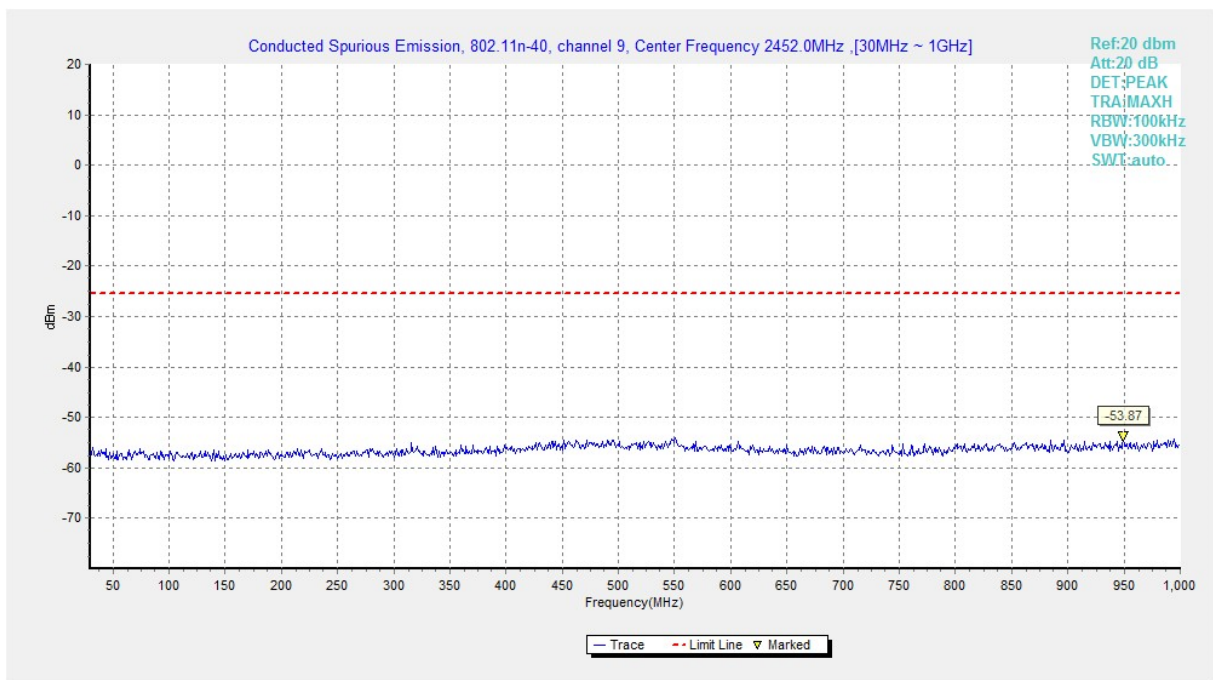


Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)

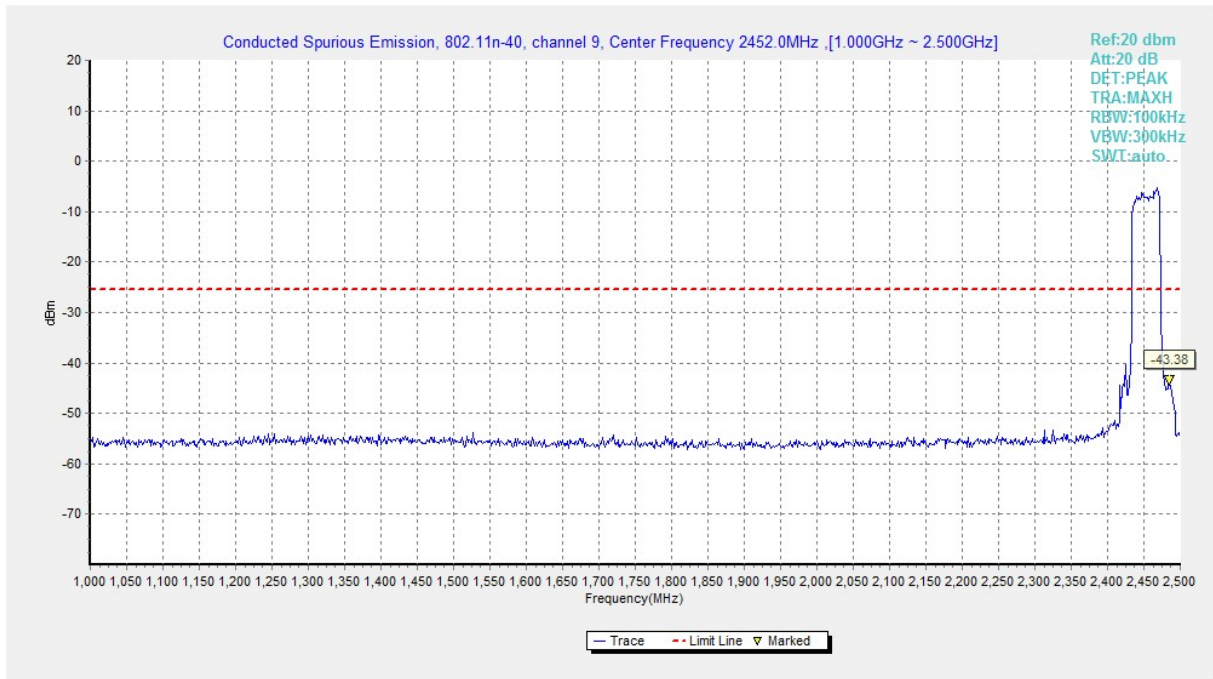


Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

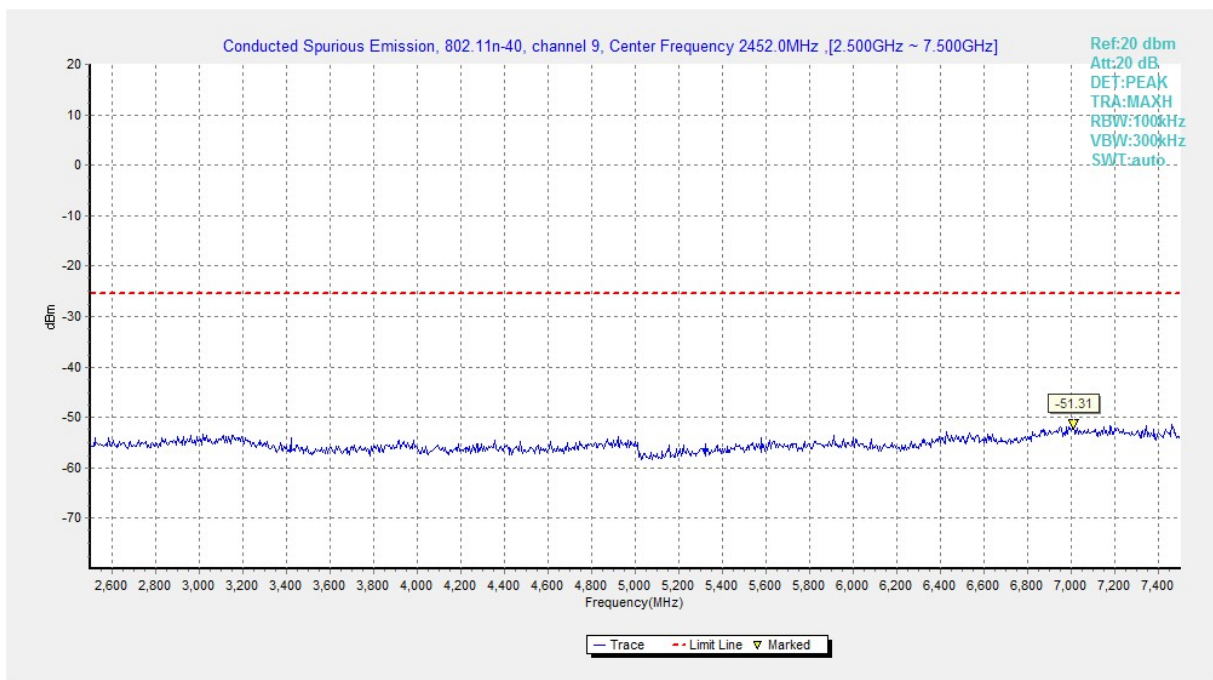


Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

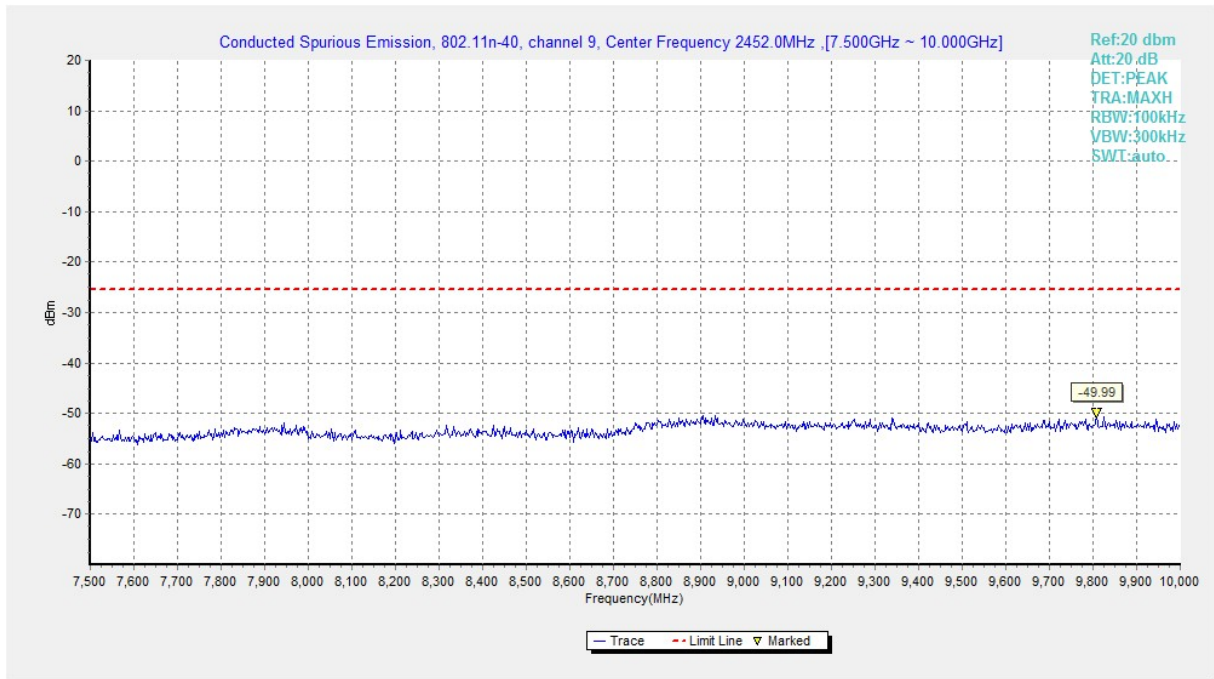


Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

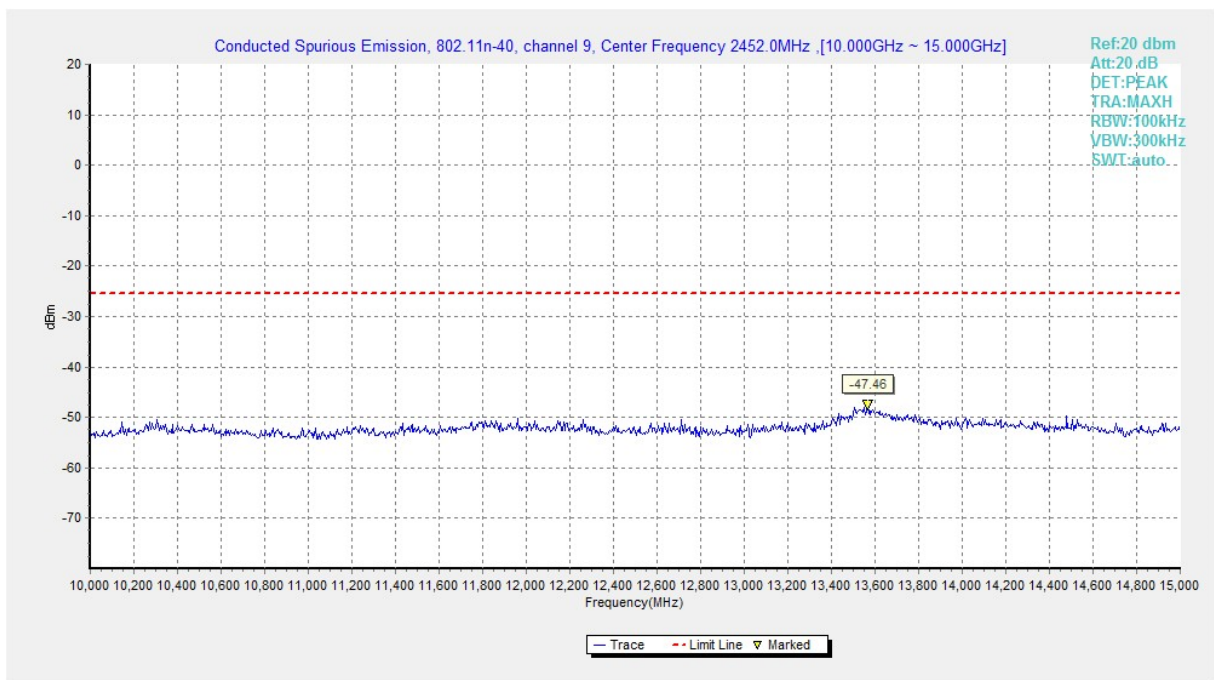


Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)

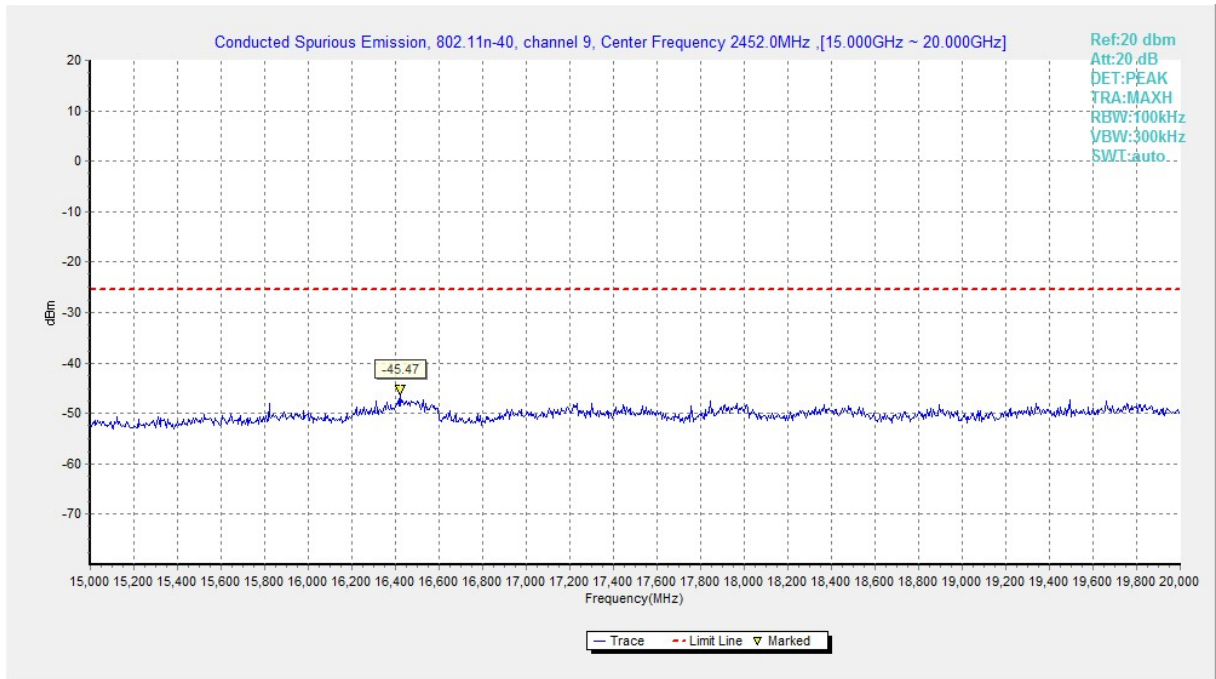


Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

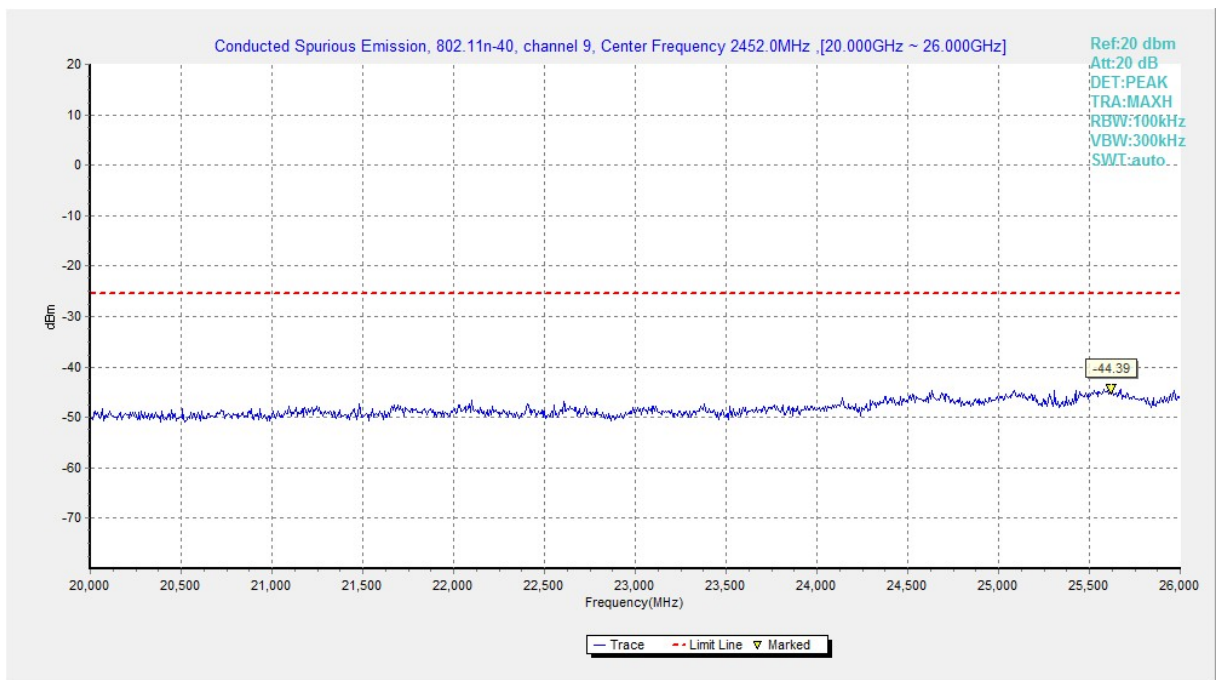


Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)

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(μ V/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/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: EUT1

Measurement Results:
802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.5	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.6	P

802.11n-HT40 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT40)	Power(ch3)	2.31GHz ~2.43GHz	Fig.A.6.2.7	P
	Power(ch9)	2.45GHz ~2.5GHz	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:

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

802.11b-Average

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17944.5	44.8	-25.5	46.7	23.6	H	54	9.2
17950.5	44.7	-25.5	46.7	23.5	H	54	9.3
17968.5	44.7	-25.5	46.7	23.5	H	54	9.3
17940	44.6	-25.5	46.7	23.4	H	54	9.4
17943	44.6	-25.5	46.7	23.4	H	54	9.4
2387.3	45	-14.2	28.1	31.1	H	54	9

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17947.5	44.9	-25.5	46.7	23.7	H	54	9.1
17955	44.7	-25.5	46.7	23.5	V	54	9.3
17956.5	44.7	-25.5	46.7	23.5	V	54	9.3
17976	44.7	-25.5	46.7	23.5	V	54	9.3
17968.5	44.6	-25.5	46.7	23.4	H	54	9.4
17944.5	44.5	-25.5	46.7	23.3	H	54	9.5

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17953.5	44.8	-25.5	46.7	23.6	V	54	9.2
17958	44.7	-25.5	46.7	23.5	V	54	9.3
17968.5	44.7	-25.5	46.7	23.5	H	54	9.3
17944.5	44.6	-25.5	46.7	23.4	H	54	9.4
17973	44.6	-25.5	46.7	23.4	H	54	9.4
2485.1	45.1	-14.2	28.3	31	H	54	8.9

802.11b-Peak

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17991	56.7	-25.5	46.7	35.5	V	74	17.3
17898	56.5	-25.5	46.7	35.3	V	74	17.5
17971.5	56.5	-25.5	46.7	35.3	H	74	17.5
17968.5	56.4	-25.5	46.7	35.2	H	74	17.6
17986.5	56.4	-25.5	46.7	35.2	H	74	17.6
2388.7	57	-14.2	28.1	43.1	H	74	17

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17956.5	57.7	-25.5	46.7	36.5	V	74	16.3
17997	57	-25.5	46.7	35.8	V	74	17
17985	56.8	-25.5	46.7	35.6	V	74	17.2
17533.5	56.5	-26.9	45.2	38.1	H	74	17.5
17935.5	56.4	-25.5	46.7	35.2	H	74	17.6
17853	56.3	-25.5	46.7	35.1	V	74	17.7

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17865	57	-25.5	46.7	35.8	V	74	17
17959.5	56.8	-25.5	46.7	35.6	H	74	17.2
17991	56.7	-25.5	46.7	35.5	H	74	17.3
17965.5	56.6	-25.5	46.7	35.4	H	74	17.4
17986.5	56.5	-25.5	46.7	35.3	H	74	17.5
2486.5	57.1	-14.2	28.3	43	H	74	16.9

802.11g - Average

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17962.5	44.7	-25.5	46.7	23.5	V	54	9.3
17971.5	44.7	-25.5	46.7	23.5	V	54	9.3
17959.5	44.6	-25.5	46.7	23.4	V	54	9.4
17973	44.6	-25.5	46.7	23.4	H	54	9.4
17952	44.5	-25.5	46.7	23.3	H	54	9.5
2388.9	45.4	-14.2	28.1	31.5	H	54	8.6

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17962.5	44.7	-25.5	46.7	23.5	V	54	9.3
17965.5	44.7	-25.5	46.7	23.5	V	54	9.3
17968.5	44.7	-25.5	46.7	23.5	V	54	9.3
17944.5	44.6	-25.5	46.7	23.4	H	54	9.4
17952	44.6	-25.5	46.7	23.4	H	54	9.4
17955	44.6	-25.5	46.7	23.4	V	54	9.4

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17950.5	44.8	-25.5	46.7	23.6	V	54	9.2
17971.5	44.7	-25.5	46.7	23.5	V	54	9.3
17970	44.6	-25.5	46.7	23.4	V	54	9.4
17976	44.6	-25.5	46.7	23.4	V	54	9.4
17944.5	44.5	-25.5	46.7	23.3	V	54	9.5
2485	46.1	-14.2	28.3	32	H	54	7.9

802.11g - Peak

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17997	57.5	-25.5	46.7	36.3	H	74	16.5
17956.5	56.9	-25.5	46.7	35.7	V	74	17.1
17959.5	56.9	-25.5	46.7	35.7	V	74	17.1
17980.5	56.8	-25.5	46.7	35.6	H	74	17.2
17949	56.4	-25.5	46.7	35.2	H	74	17.6
2330.8	57.2	-14.6	28	43.8	H	74	16.8

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17985	56.4	-25.5	46.7	35.2	H	74	17.6
17596.5	56.3	-25.7	46	36.1	H	74	17.7
17871	56.1	-25.5	46.7	34.9	H	74	17.9
17916	56.1	-25.5	46.7	34.9	V	74	17.9
17958	56.1	-25.5	46.7	34.9	H	74	17.9
17853	55.9	-25.5	46.7	34.7	H	74	18.1

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17985	57.2	-25.5	46.7	36	H	74	16.8
17941.5	56.8	-25.5	46.7	35.6	H	74	17.2
17895	56.5	-25.5	46.7	35.3	H	74	17.5
17944.5	56.2	-25.5	46.7	35	V	74	17.8
17860.5	55.9	-25.5	46.7	34.7	V	74	18.1
2485.1	58.9	-14.2	28.3	44.8	H	74	15.1

802.11n-HT20-Average

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
2385.696	42.2	-14.3419	31.5	25.04186	H	54	11.8
17959.5	44.8	-5.41613	33.8	16.41613	H	54	9.2
17964	44.7	-5.41613	33.8	16.31613	V	54	9.3
17995.5	44.7	-5.41613	33.8	16.31613	H	54	9.3
17950.5	44.7	-5.41613	33.8	16.31613	H	54	9.3
17947.5	44.6	-5.41613	33.8	16.21613	H	54	9.4

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17985	44.7	-25.5	46.7	23.5	V	54	9.3
17950.5	44.6	-25.5	46.7	23.4	V	54	9.4
17952	44.6	-25.5	46.7	23.4	V	54	9.4
17986.5	44.6	-25.5	46.7	23.4	V	54	9.4
17941.5	44.5	-25.5	46.7	23.3	H	54	9.5
17946	44.5	-25.5	46.7	23.3	H	54	9.5

Ch11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
2483.398	43.5	-14.3628	32.2	25.66277	H	54	10.5
17974.5	44.7	-5.41613	33.8	16.31613	H	54	9.3
17967	44.7	-5.41613	33.8	16.31613	V	54	9.3
17976	44.6	-5.41613	33.8	16.21613	H	54	9.4
17964	44.6	-5.41613	33.8	16.21613	H	54	9.4
18000	44.6	-6.5411	33.8	17.3411	H	54	9.4

802.11n-HT20-Peak

Ch1

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
2386.764	54.5	-14.3419	31.5	37.34186	H	74	19.5
17947.5	56.4	-5.41613	33.8	28.01613	H	74	17.6
17940	56.3	-5.41613	33.8	27.91613	V	74	17.7
17982	56.2	-5.41613	33.8	27.81613	H	74	17.8
17941.5	56.2	-5.41613	33.8	27.81613	H	74	17.8
17934	56.1	-5.41613	33.8	27.71613	H	74	17.9

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17952	56.7	-25.5	46.7	35.5	V	74	17.3
17995.5	56.6	-25.5	46.7	35.4	H	74	17.4
17976	56.5	-25.5	46.7	35.3	H	74	17.5
17986.5	56.4	-25.5	46.7	35.2	V	74	17.6
17967	56.2	-25.5	46.7	35	H	74	17.8
17877	56	-25.5	46.7	34.8	H	74	18

Ch 11

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
2484.075	56.7	-14.3628	32.2	38.86277	H	74	17.3
17929.5	57.1	-5.41613	33.8	28.71613	H	74	16.9
17926.5	56.4	-5.41613	33.8	28.01613	V	74	17.6
17949	56.3	-5.41613	33.8	27.91613	H	74	17.7
17973	56.3	-5.41613	33.8	27.91613	H	74	17.7
17974.5	56.2	-5.41613	33.8	27.81613	H	74	17.8

802.11n-HT20-Average

Ch 3

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17947.5	44.6	-25.5	46.7	23.4	V	54	9.4
17965.5	44.6	-25.5	46.7	23.4	V	54	9.4
17971.5	44.6	-25.5	46.7	23.4	V	54	9.4
17976	44.6	-25.5	46.7	23.4	H	54	9.4
17980.5	44.6	-25.5	46.7	23.4	H	54	9.4
2388.4	43.6	-14.2	28.1	29.7	H	54	10.4

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17983.5	44.7	-25.5	46.7	23.5	V	54	9.3
17988	44.7	-25.5	46.7	23.5	H	54	9.3
17941.5	44.6	-25.5	46.7	23.4	V	54	9.4
17953.5	44.6	-25.5	46.7	23.4	V	54	9.4
17955	44.6	-25.5	46.7	23.4	V	54	9.4
17961	44.6	-25.5	46.7	23.4	V	54	9.4

Ch9

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17994	44.7	-25.5	46.7	23.5	H	54	9.3
17950.5	44.6	-25.5	46.7	23.4	V	54	9.4
17959.5	44.6	-25.5	46.7	23.4	V	54	9.4
17973	44.6	-25.5	46.7	23.4	H	54	9.4
17955	44.5	-25.5	46.7	23.3	H	54	9.5
2485	44.5	-14.2	28.3	30.4	H	54	9.5

802.11n-HT40-Peak

Ch3

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17856	57.2	-25.5	46.7	36	V	74	16.8
17952	56.8	-25.5	46.7	35.6	H	74	17.2
17964	56.5	-25.5	46.7	35.3	H	74	17.5
17884.5	56.3	-25.5	46.7	35.1	H	74	17.7
17949	56.3	-25.5	46.7	35.1	H	74	17.7
2389.6	58.7	-14.2	28.1	44.8	H	74	15.3

Ch6

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17959.5	56.6	-25.5	46.7	35.4	H	74	17.4
17988	56.4	-25.5	46.7	35.2	H	74	17.6
17871	56.3	-25.5	46.7	35.1	V	74	17.7
17932.5	56	-25.5	46.7	34.8	H	74	18
17938.5	55.9	-25.5	46.7	34.7	H	74	18.1
17874	55.8	-25.5	46.7	34.6	V	74	18.2

Ch9

Frequency (MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization	Limit (dBμV/m)	Margin (dB)
17805	56.6	-25.5	46.7	35.4	H	74	17.4
17962.5	56.4	-25.5	46.7	35.2	V	74	17.6
17964	56.1	-25.5	46.7	34.9	H	74	17.9
17974.5	56.1	-25.5	46.7	34.9	V	74	17.9
17871	56	-25.5	46.7	34.8	H	74	18
2485.1	64.7	-14.2	28.3	50.6	H	74	9.3

Test graphs as below:

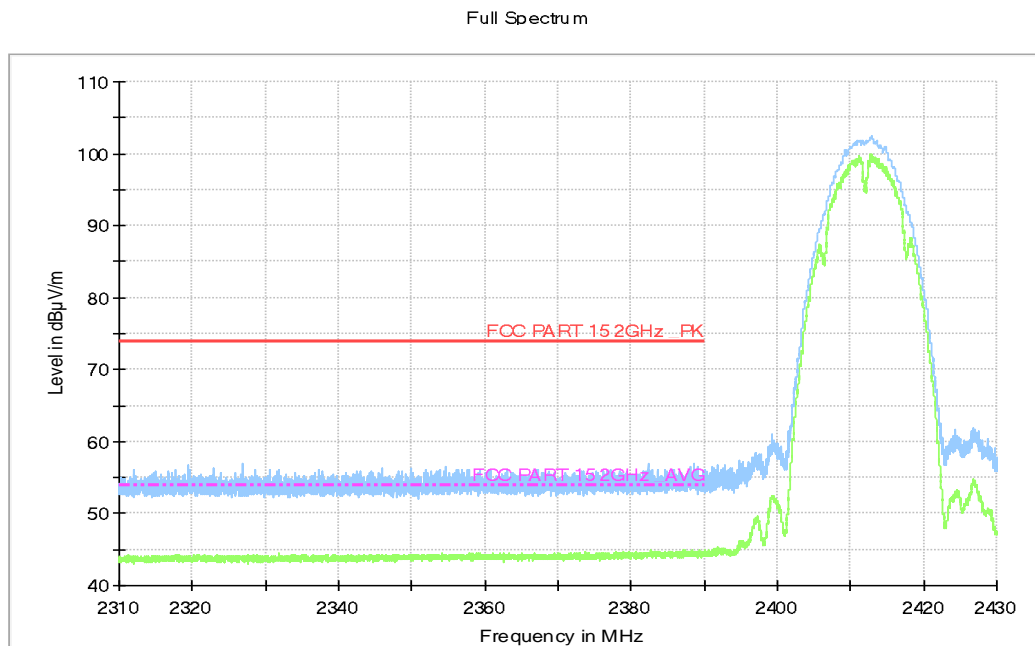


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz

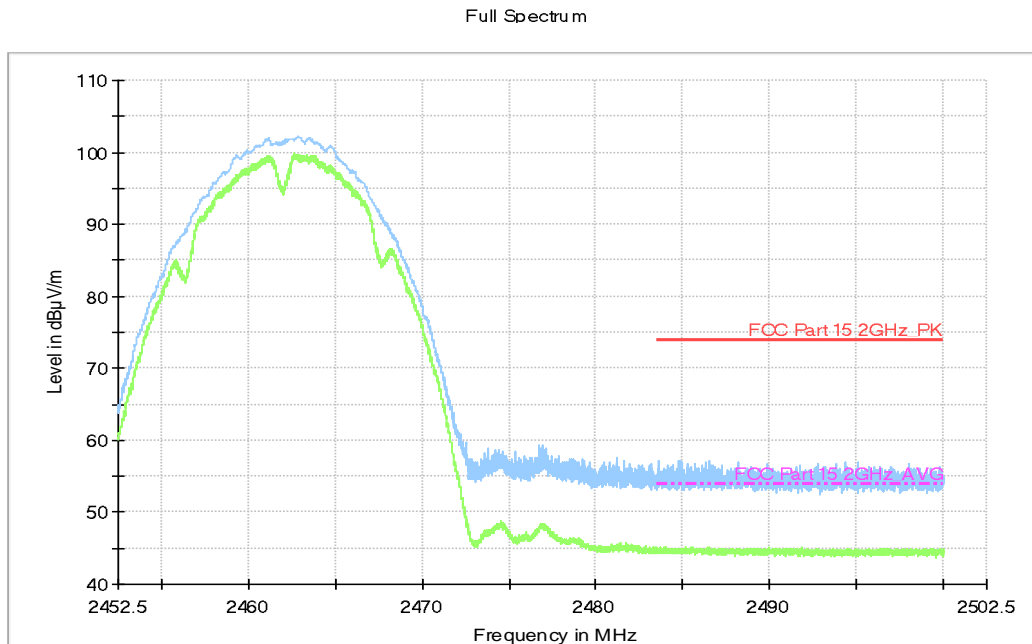


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

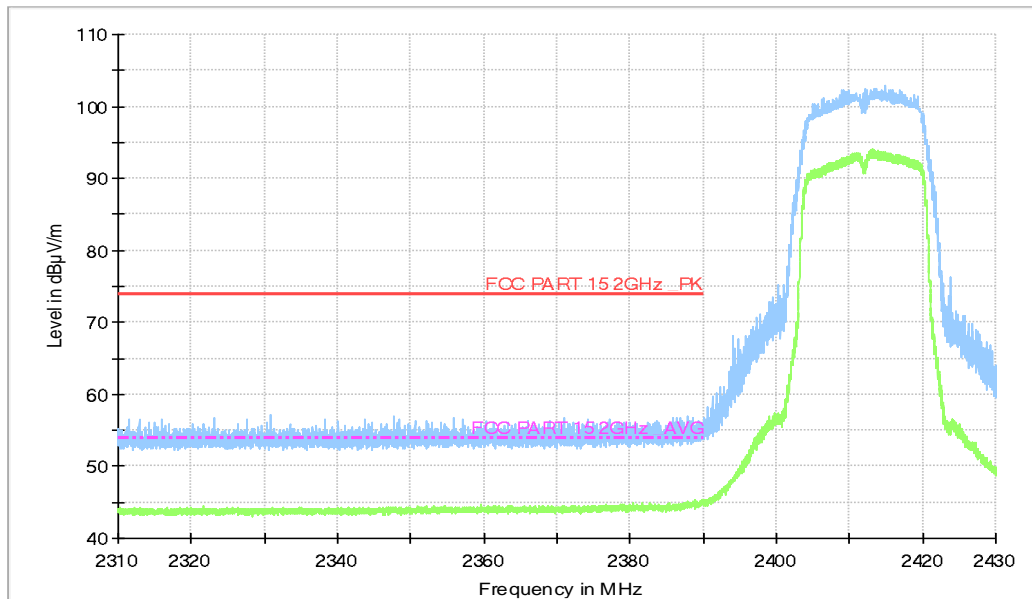


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

Full Spectrum

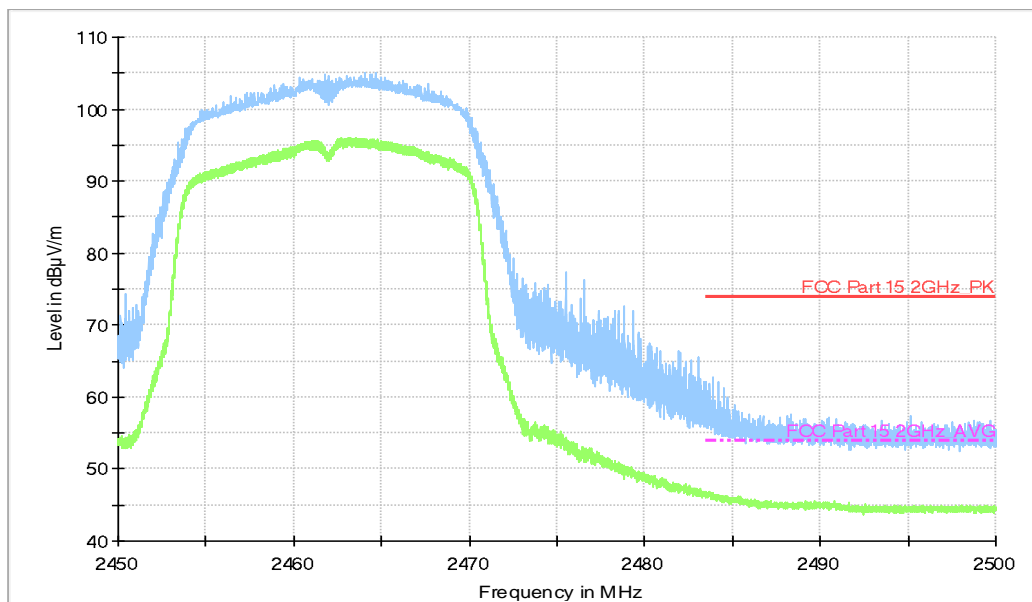


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

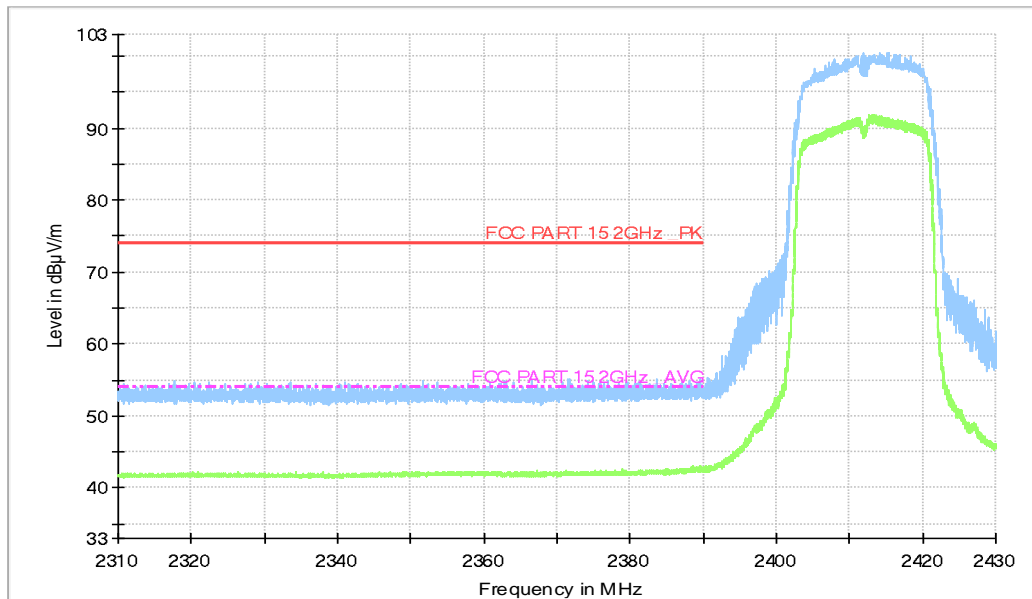


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31 GHz - 2.45GHz

Full Spectrum

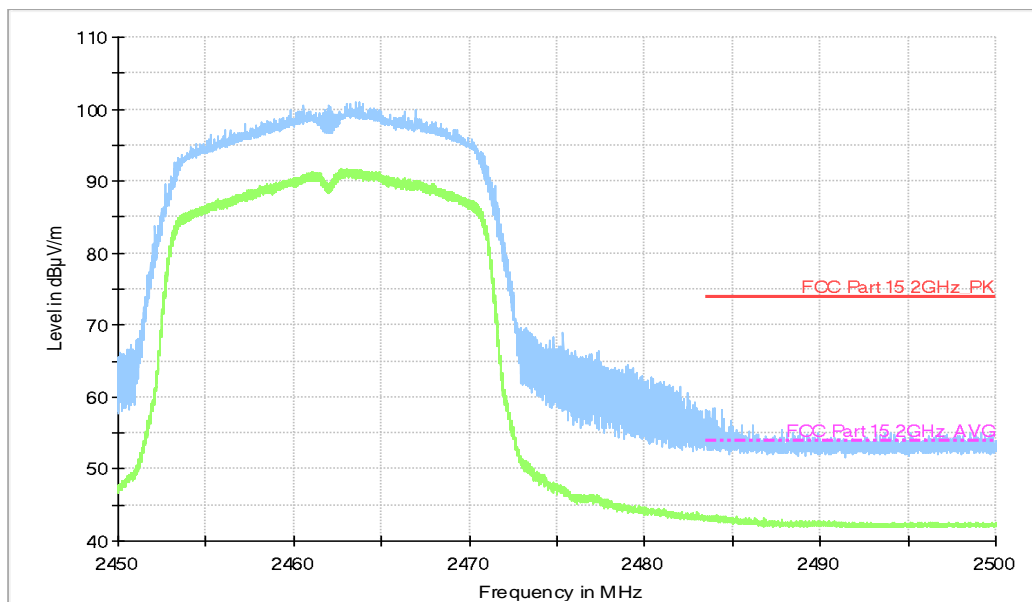


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

Full Spectrum

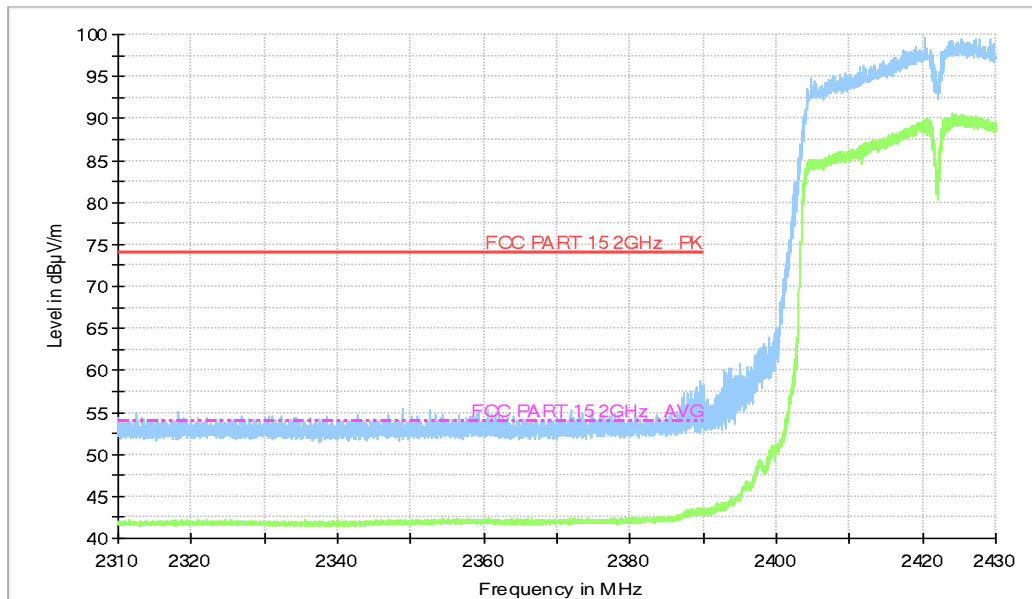


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.31 GHz - 2.45GHz

Full Spectrum

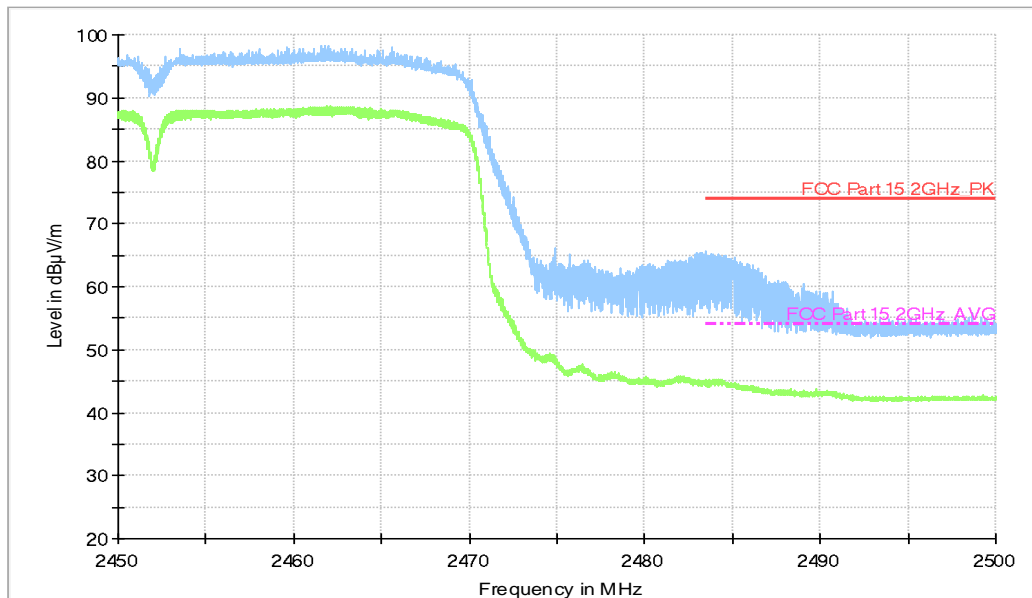


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

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:

Traffic:

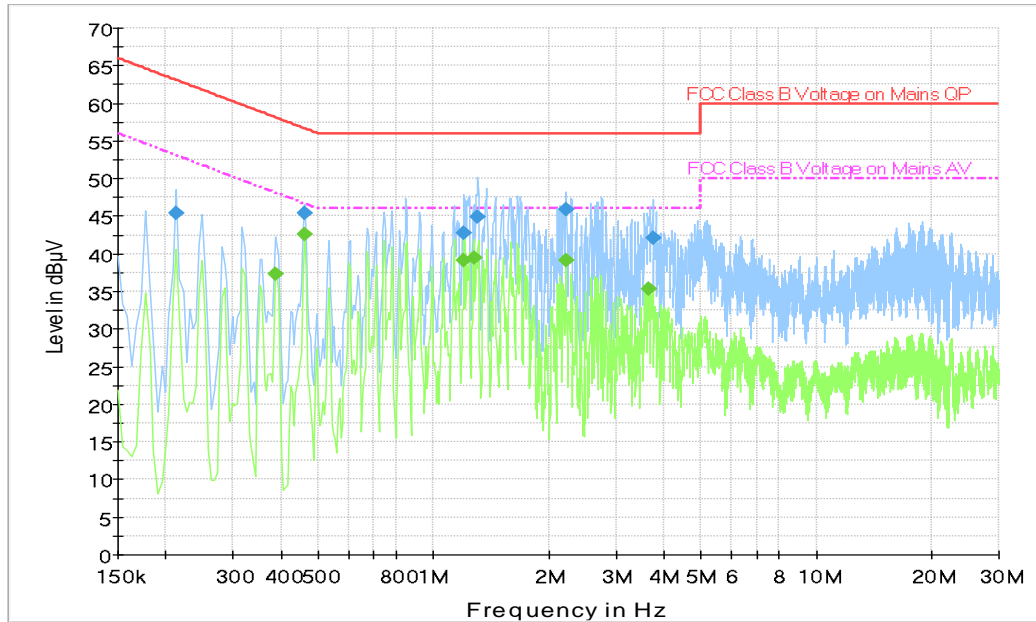


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.213000	45.5	1000.0	9.000	On	L1	20.0	17.6	63.1
0.460500	45.4	1000.0	9.000	On	L1	20.1	11.3	56.7
1.203000	42.8	1000.0	9.000	On	L1	19.8	13.2	56.0
1.306500	44.9	1000.0	9.000	On	L1	19.9	11.1	56.0
2.215500	46.0	1000.0	9.000	On	L1	20.1	10.0	56.0
3.745500	42.1	1000.0	9.000	On	L1	20.5	13.9	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.388500	37.3	1000.0	9.000	On	L1	20.1	10.7	48.1
0.460500	42.7	1000.0	9.000	On	L1	20.1	4.0	46.7
1.203000	39.1	1000.0	9.000	On	L1	19.8	6.9	46.0
1.275000	39.4	1000.0	9.000	On	N	19.9	6.6	46.0
2.220000	39.1	1000.0	9.000	On	N	19.9	6.9	46.0
3.637500	35.3	1000.0	9.000	On	N	20.3	10.7	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

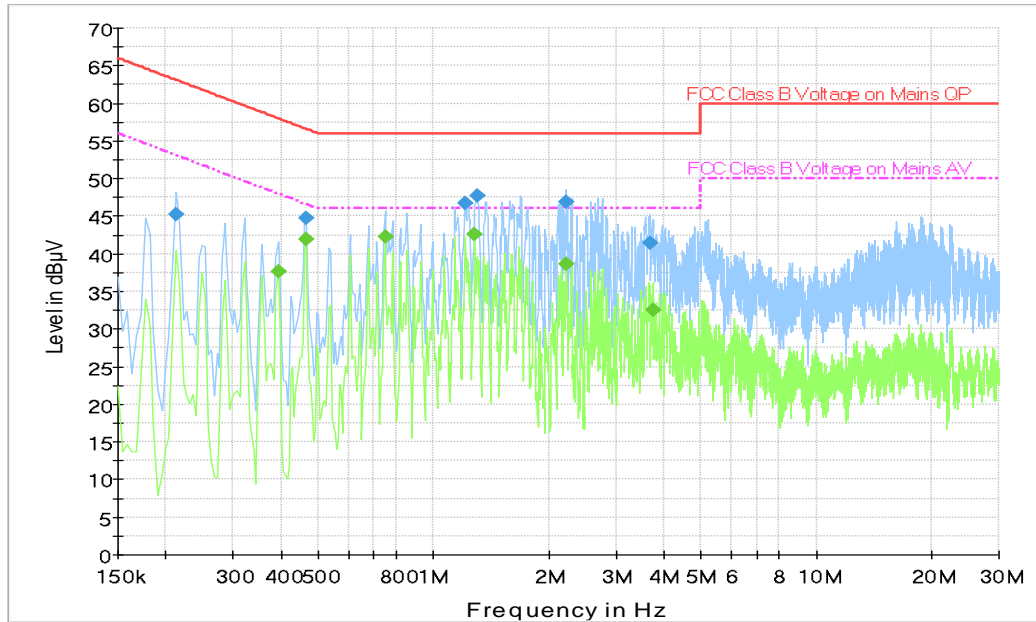


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.213000	45.2	1000.0	9.000	On	L1	20.0	17.8	63.1
0.465000	44.8	1000.0	9.000	On	L1	20.1	11.9	56.6
1.212000	46.8	1000.0	9.000	On	L1	19.8	9.2	56.0
1.302000	47.7	1000.0	9.000	On	N	19.9	8.3	56.0
2.224500	46.9	1000.0	9.000	On	L1	20.1	9.1	56.0
0.213000	45.2	1000.0	9.000	On	L1	20.0	17.8	63.1

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.393000	37.7	1000.0	9.000	On	N	19.9	10.3	48.0
0.465000	42.0	1000.0	9.000	On	L1	20.1	4.6	46.6
0.748500	42.2	1000.0	9.000	On	L1	20.1	3.8	46.0
1.284000	42.5	1000.0	9.000	On	N	19.9	3.5	46.0
2.224500	38.6	1000.0	9.000	On	L1	20.1	7.4	46.0
3.736500	32.6	1000.0	9.000	On	L1	20.5	13.4	46.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> 	
<hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2005</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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></p>	
<hr/> <p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

END OF REPORT