

Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

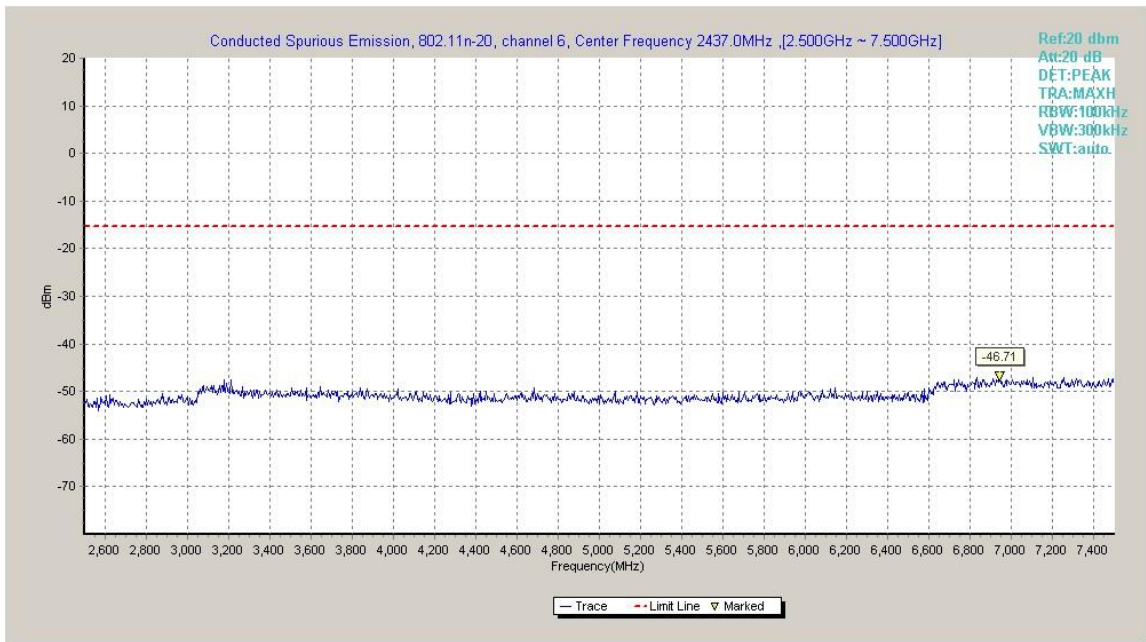


Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

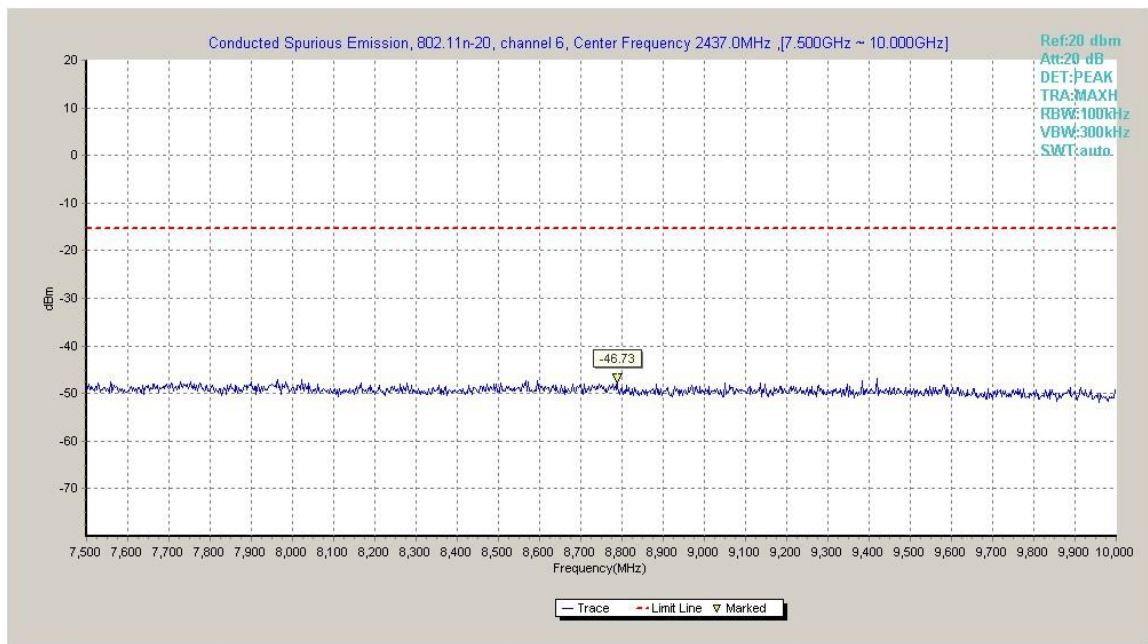


Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

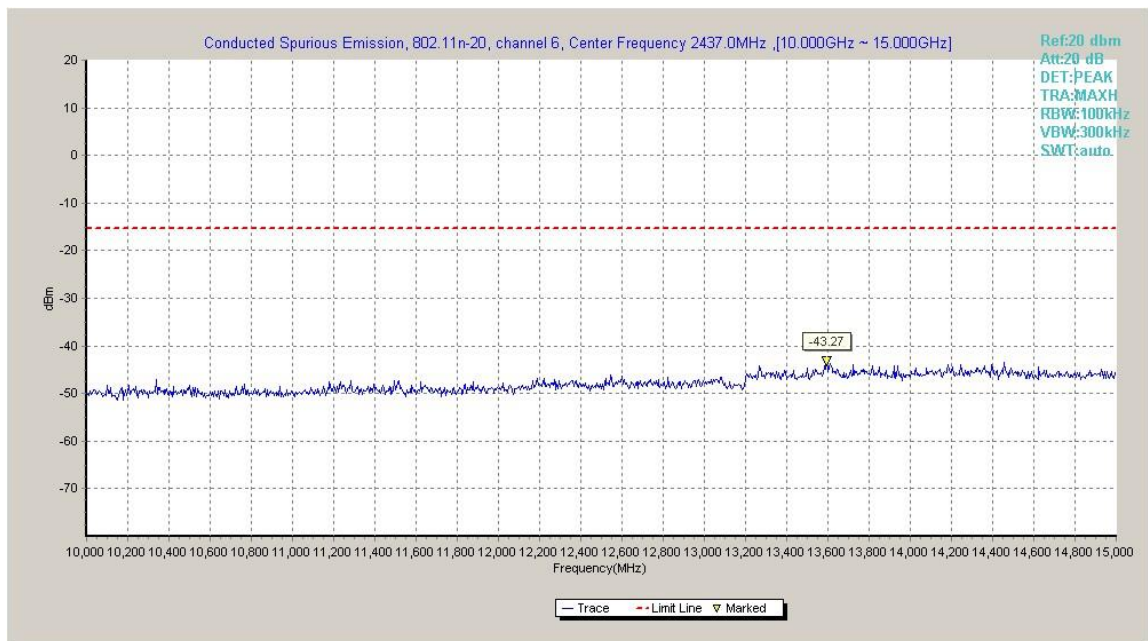


Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

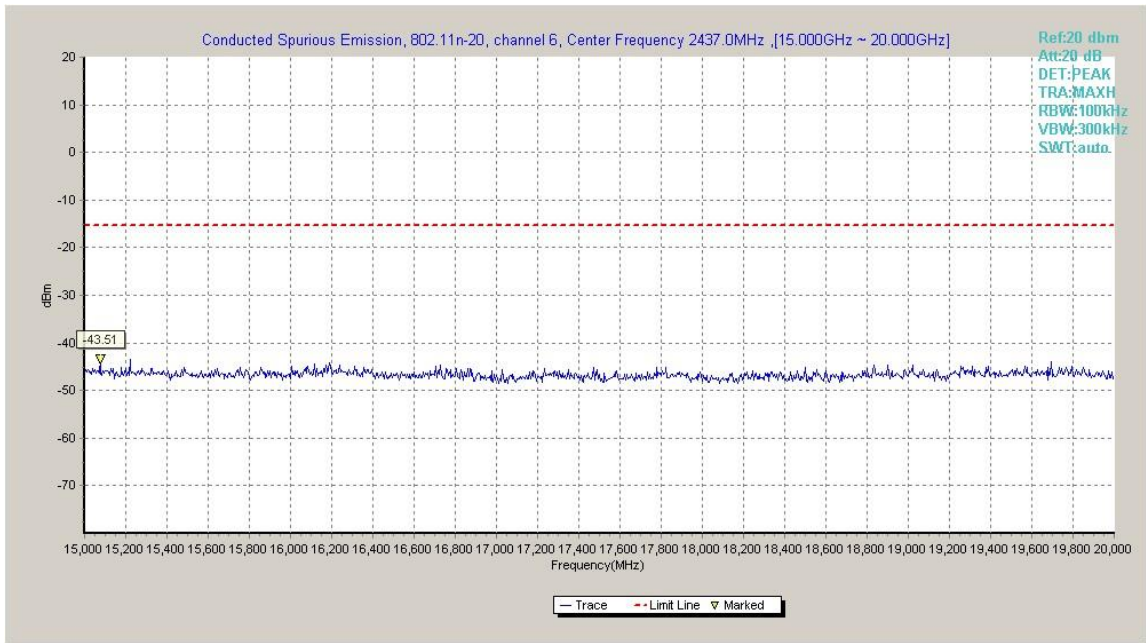


Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

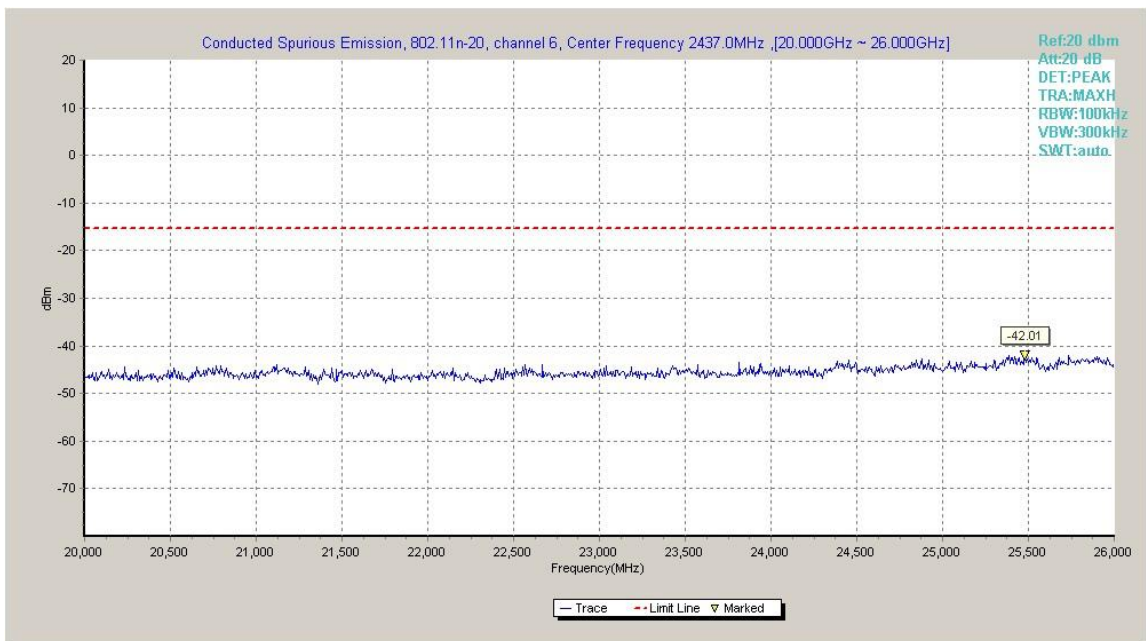


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

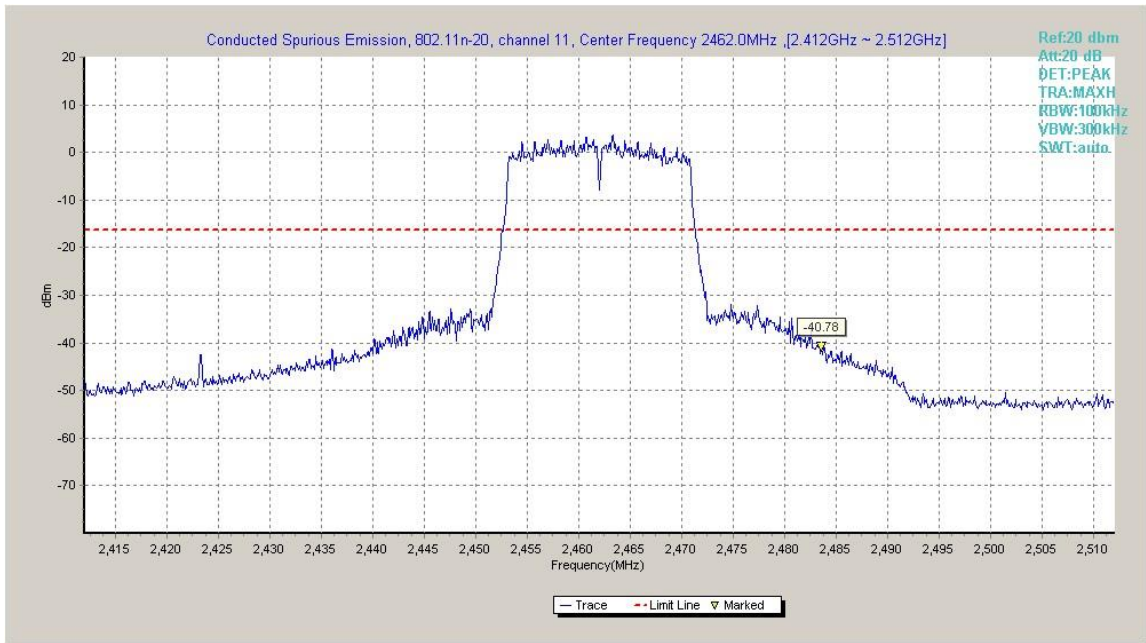


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

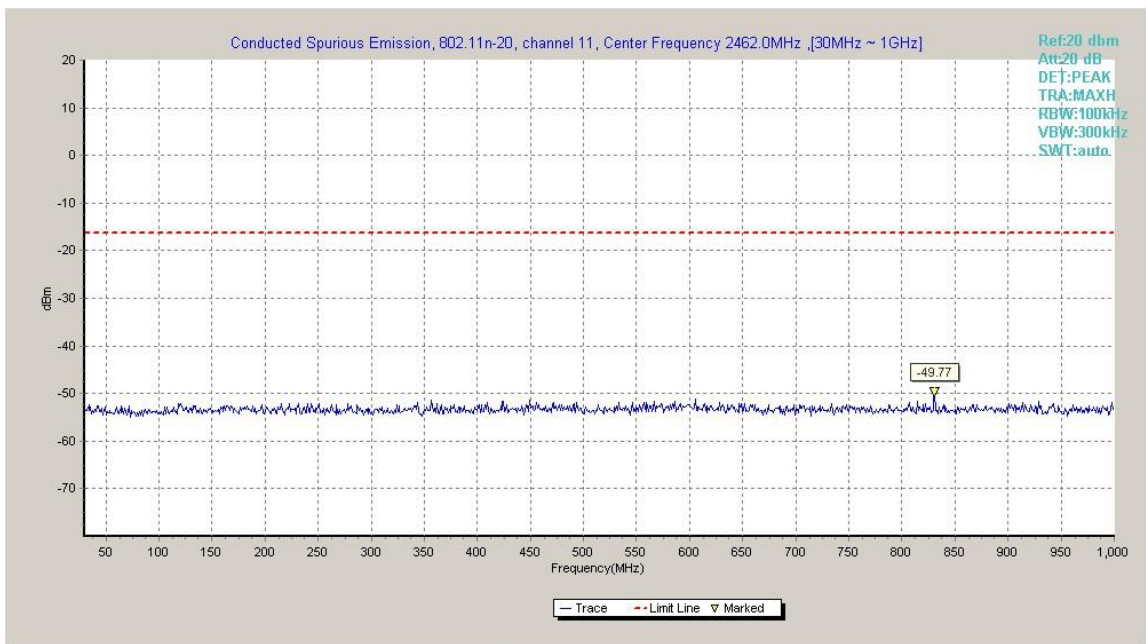


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

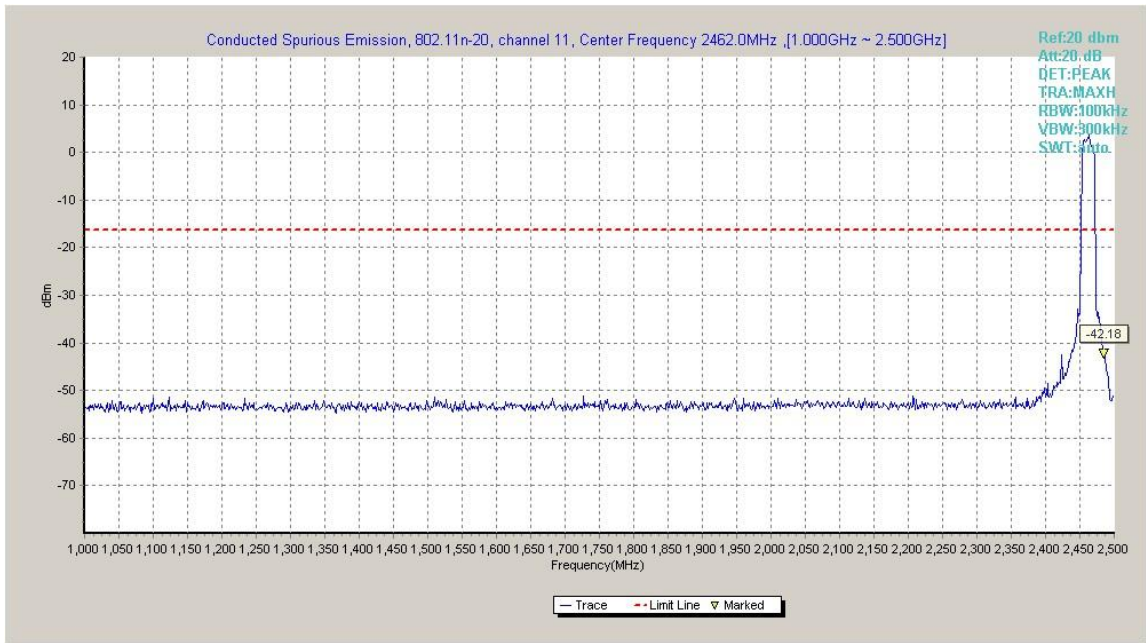


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

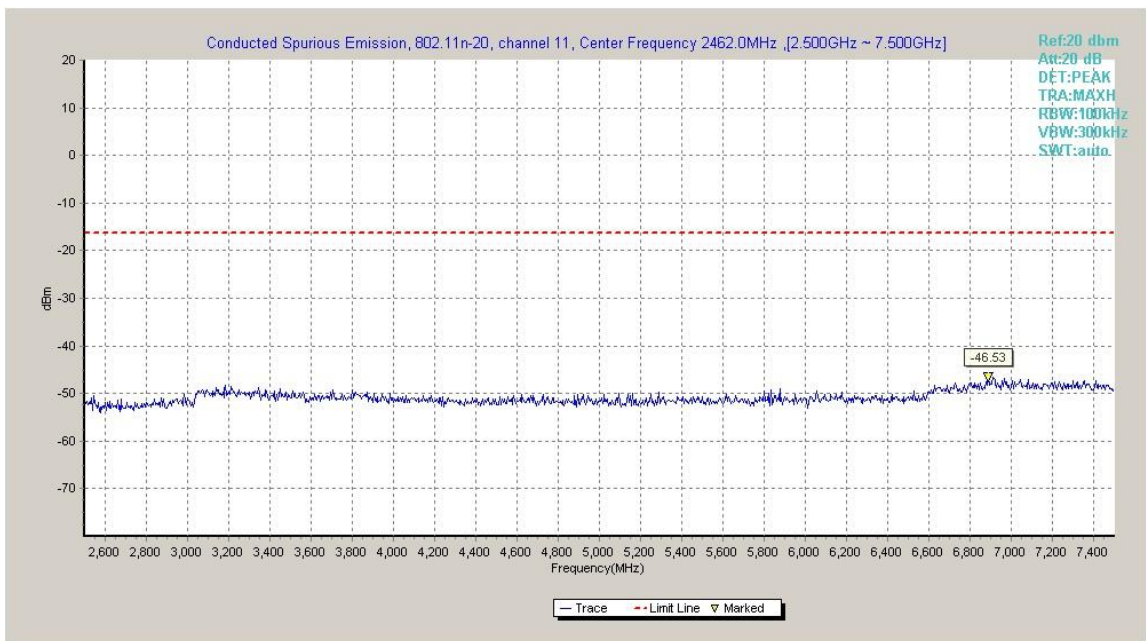


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

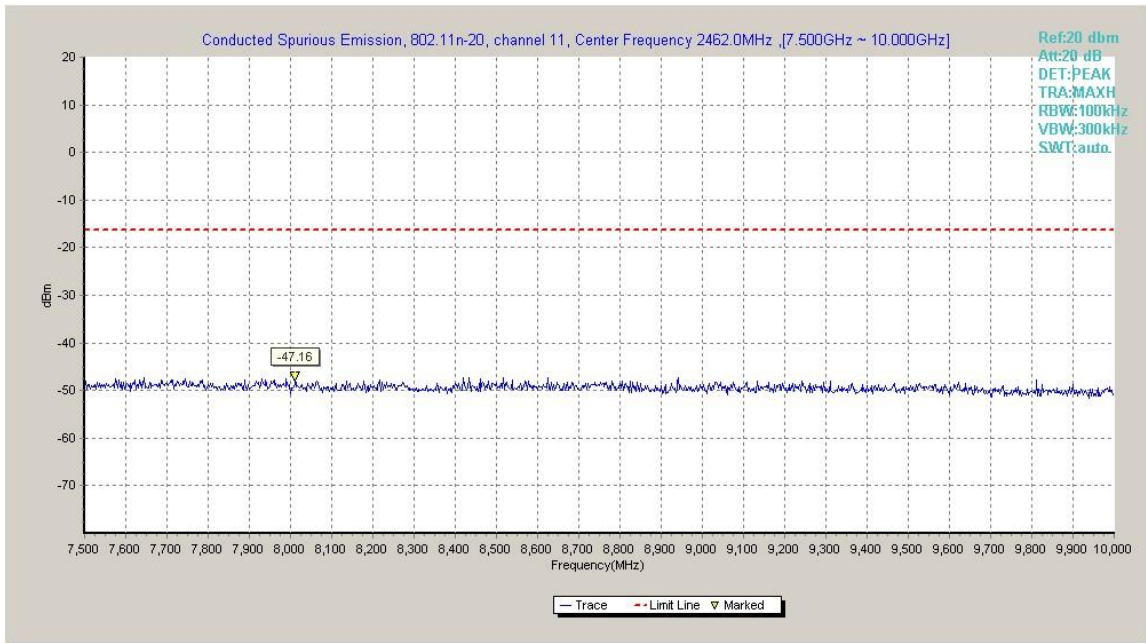


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

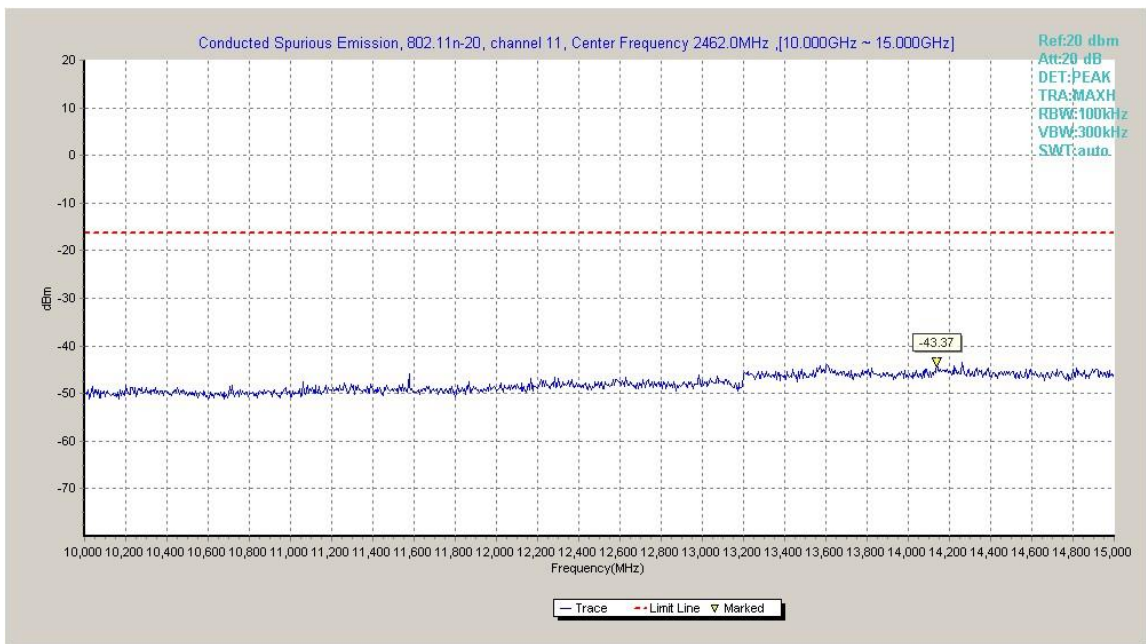


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

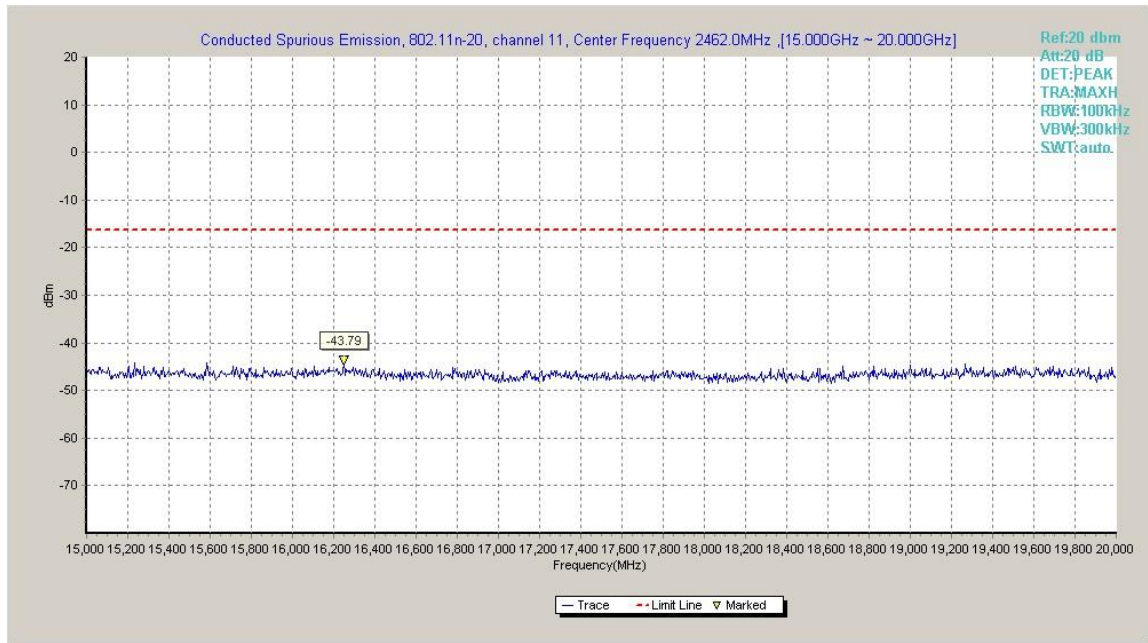


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

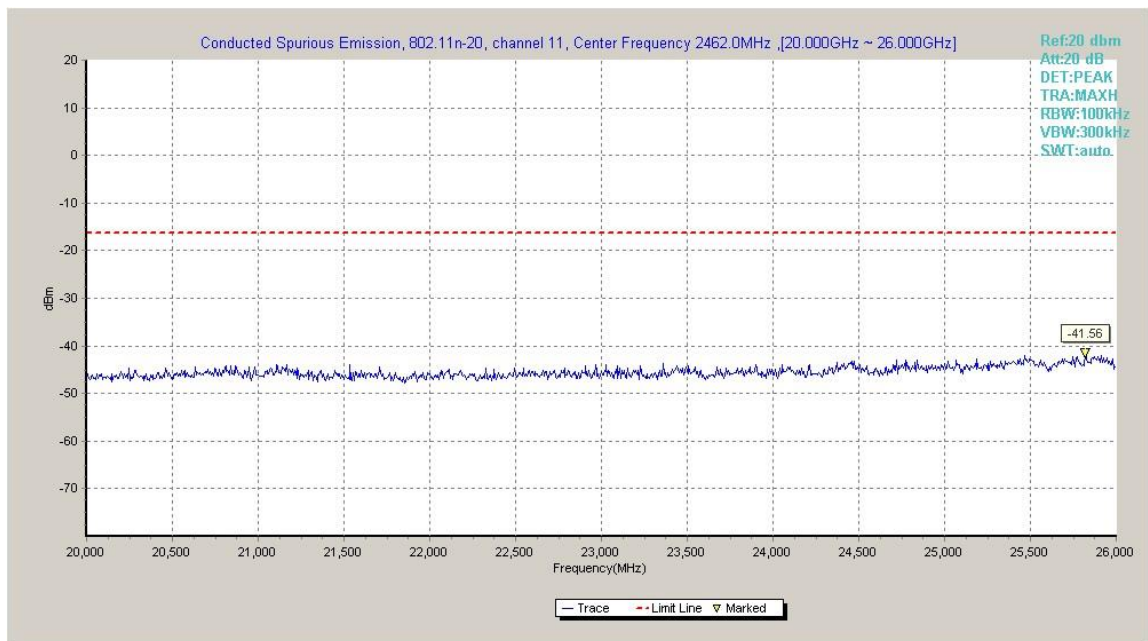


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

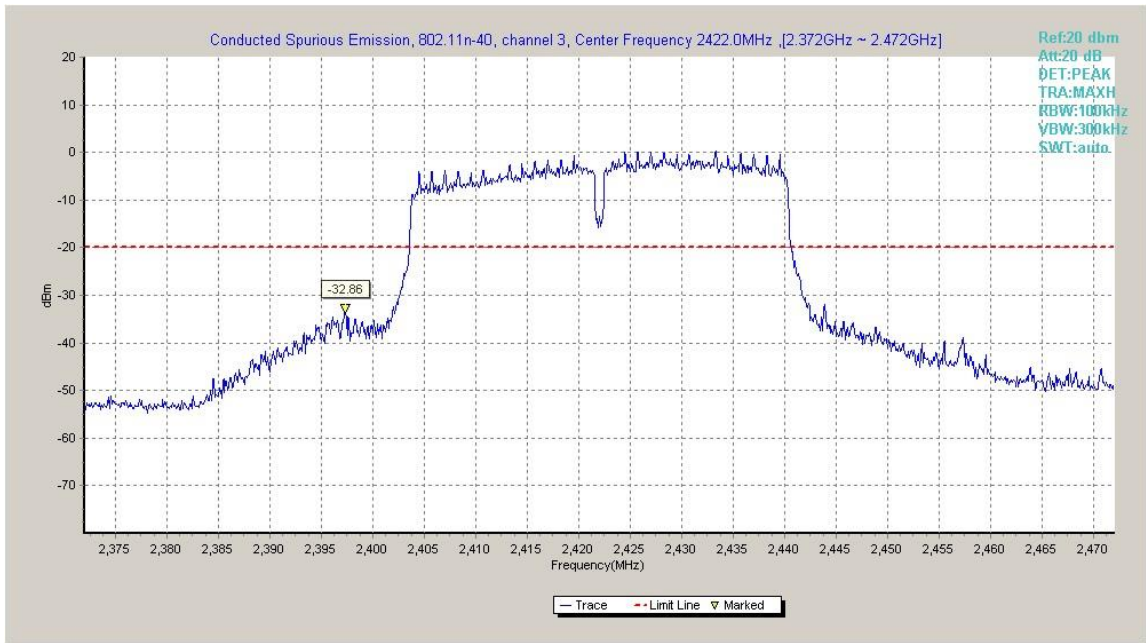


Fig.A.6.1.73 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)

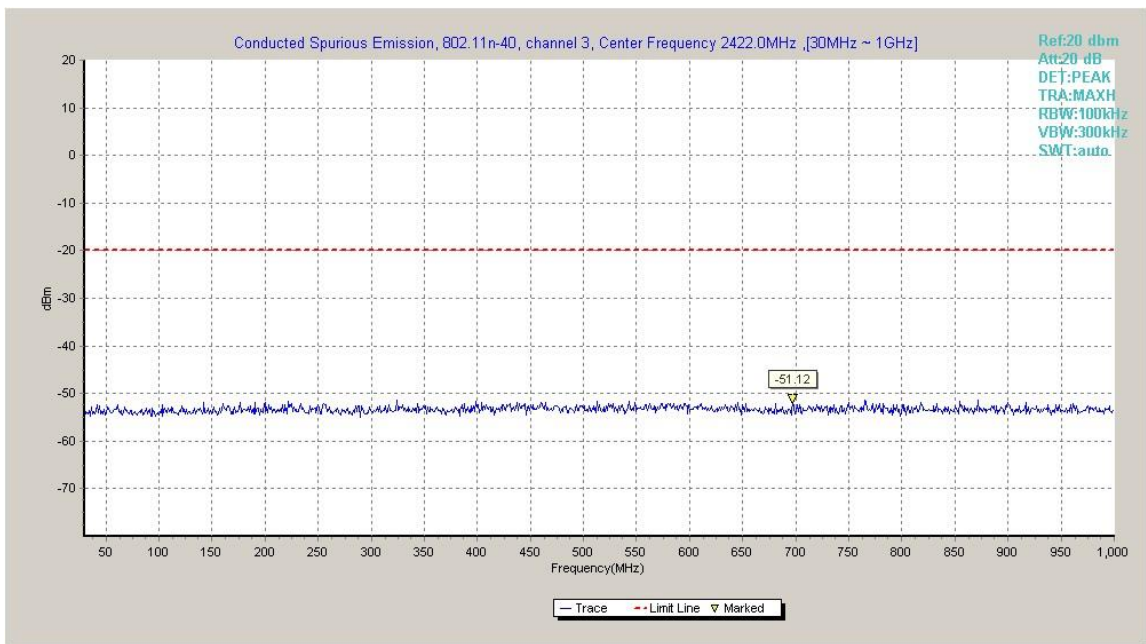


Fig.A.6.1.74 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-1 GHz)

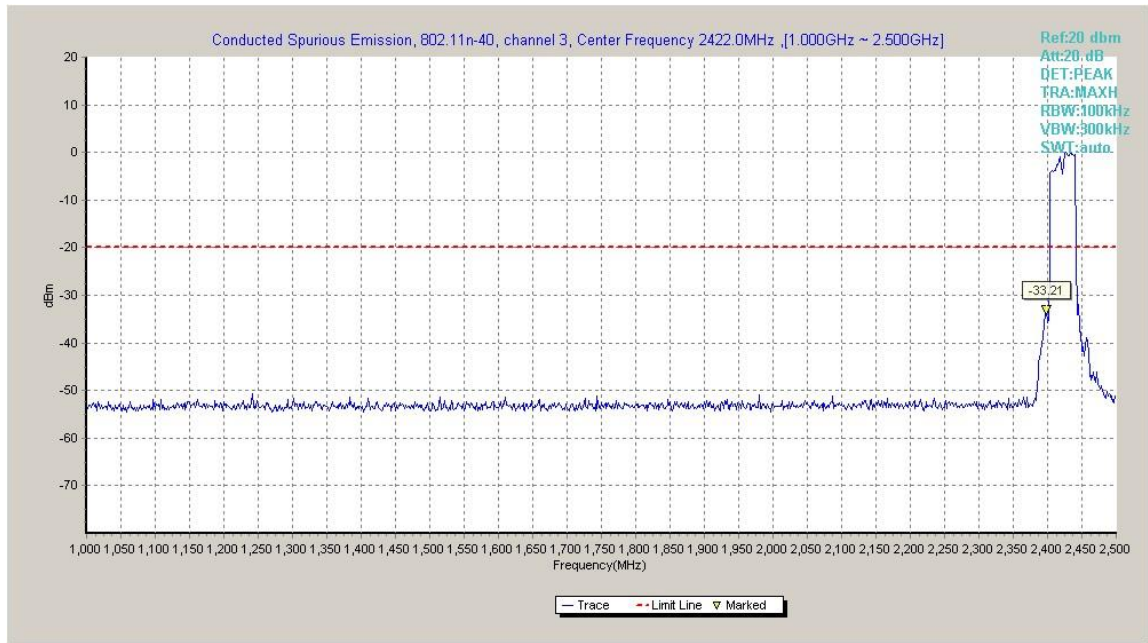


Fig.A.6.1.75 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)

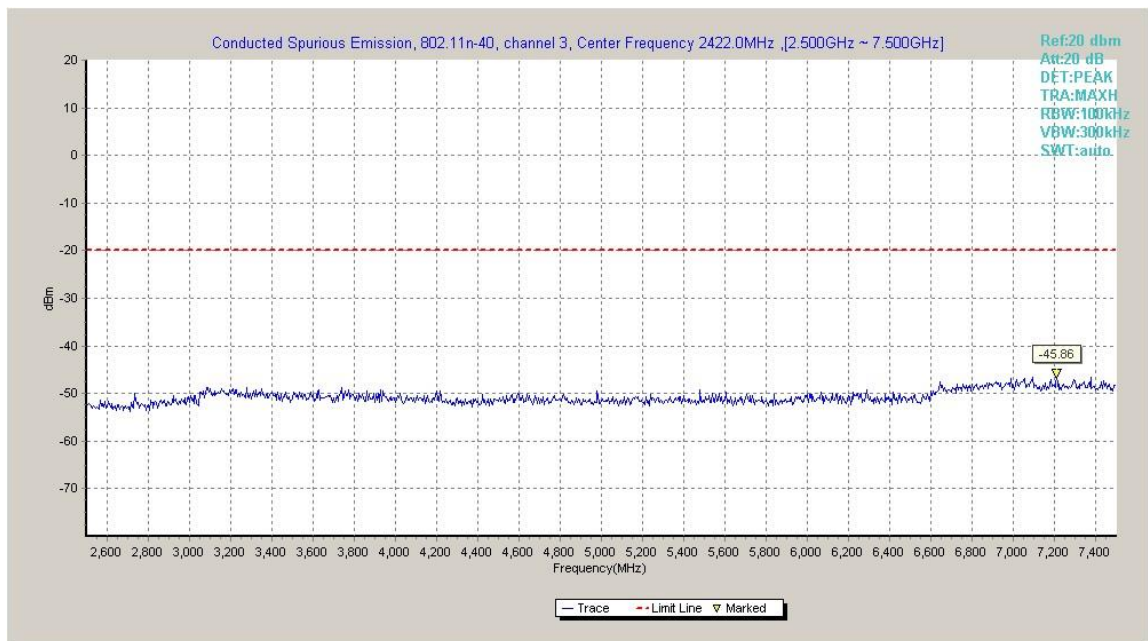


Fig.A.6.1.76 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)

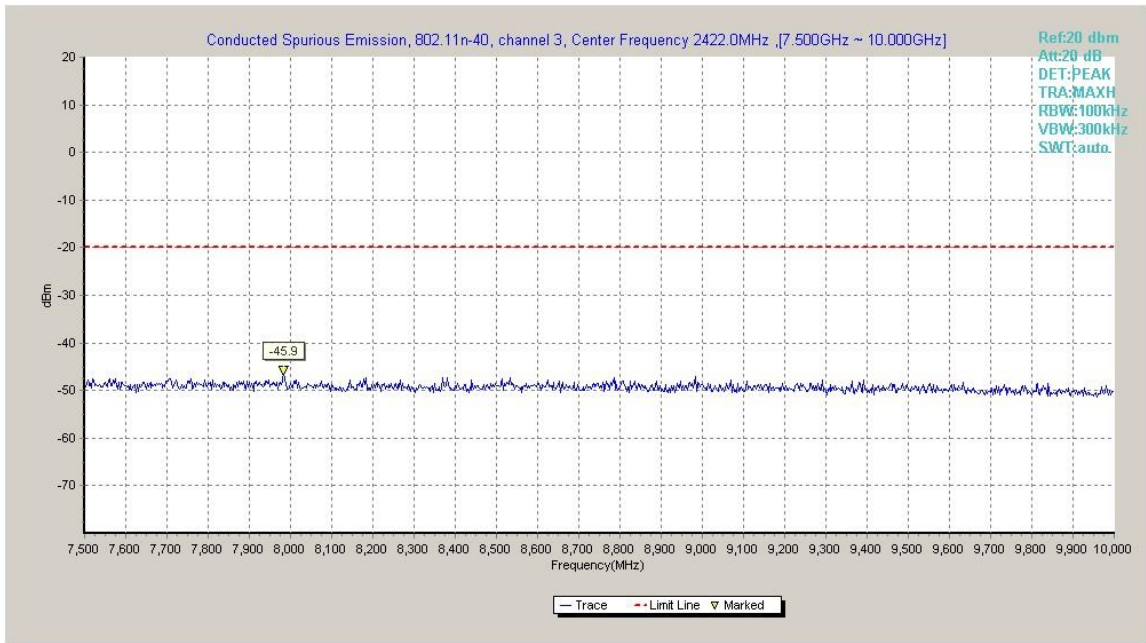


Fig.A.6.1.77 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)

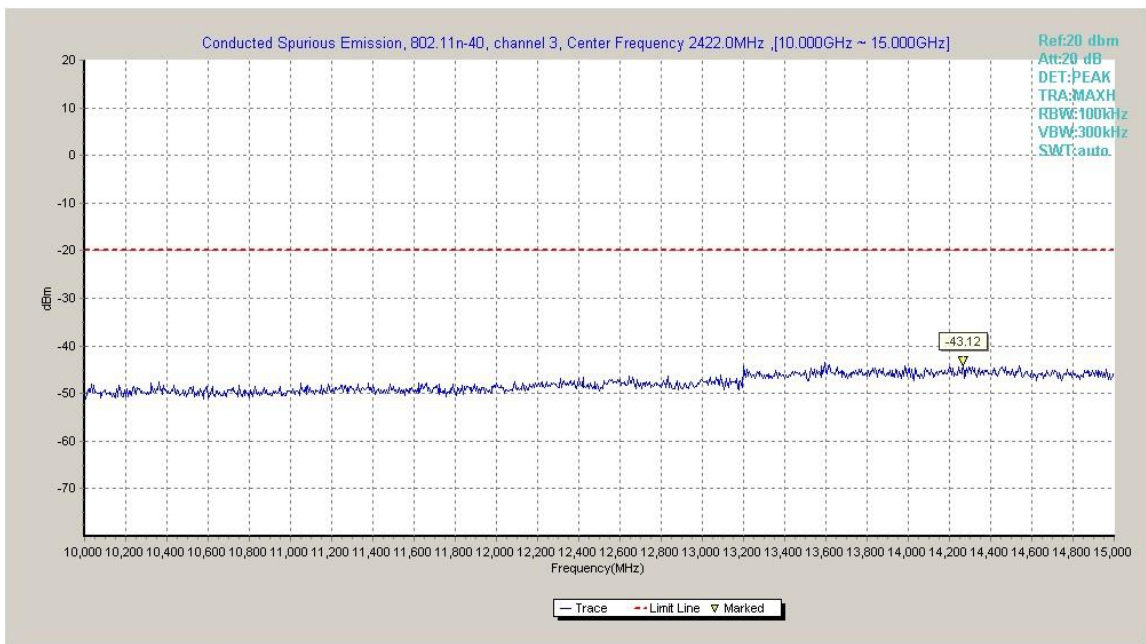


Fig.A.6.1.78 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 10 GHz-15 GHz)

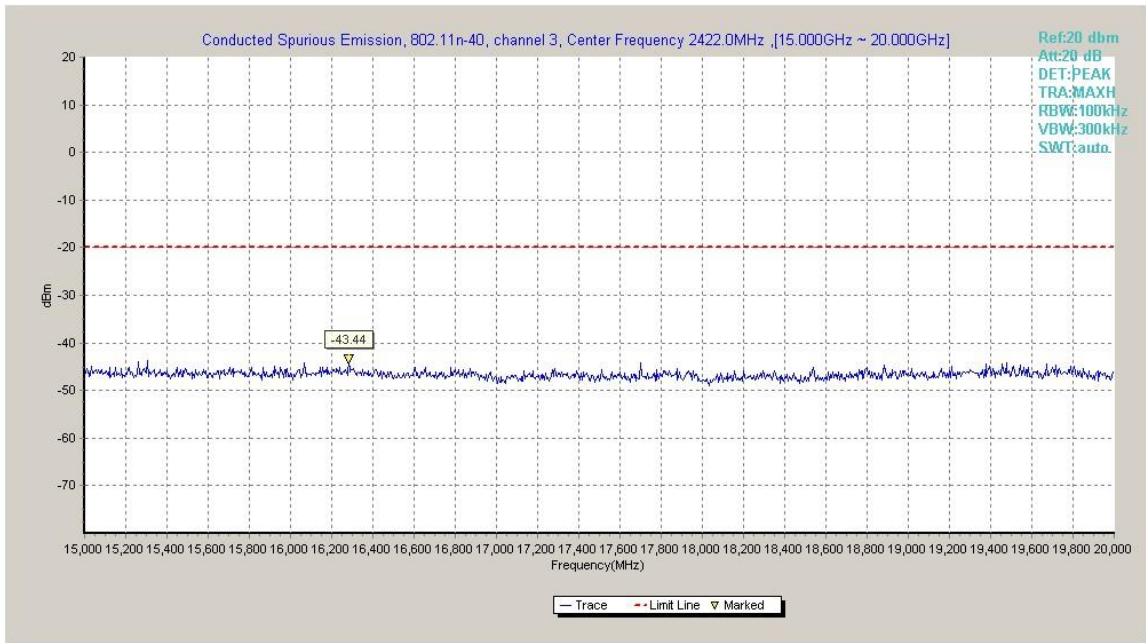


Fig.A.6.1.79 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 15 GHz-20 GHz)

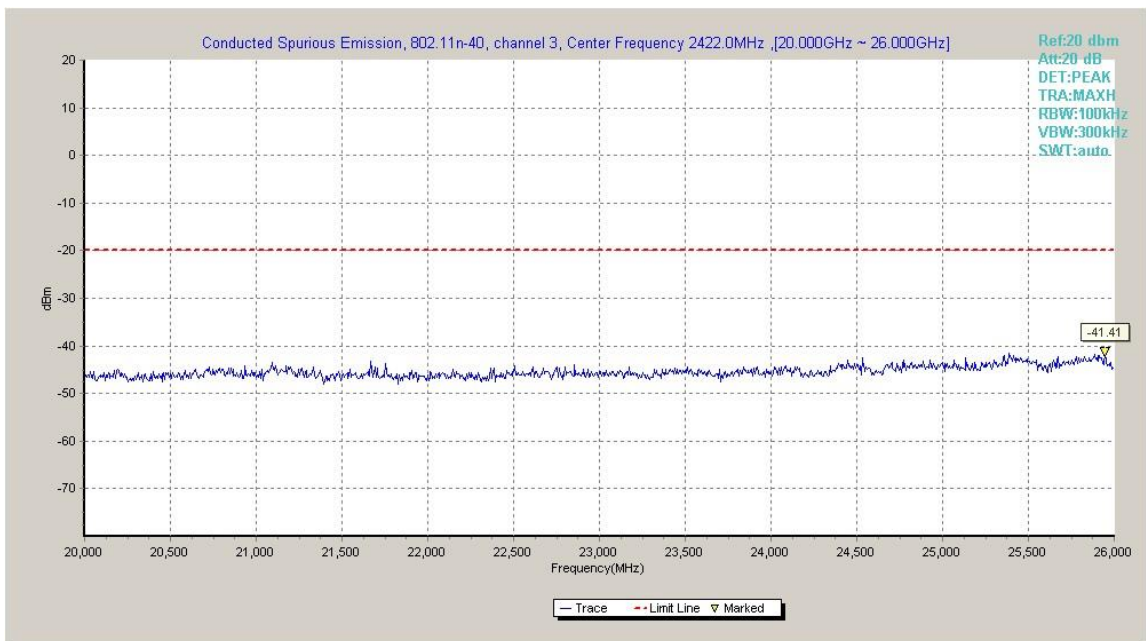


Fig.A.6.1.80 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 20 GHz-26 GHz)

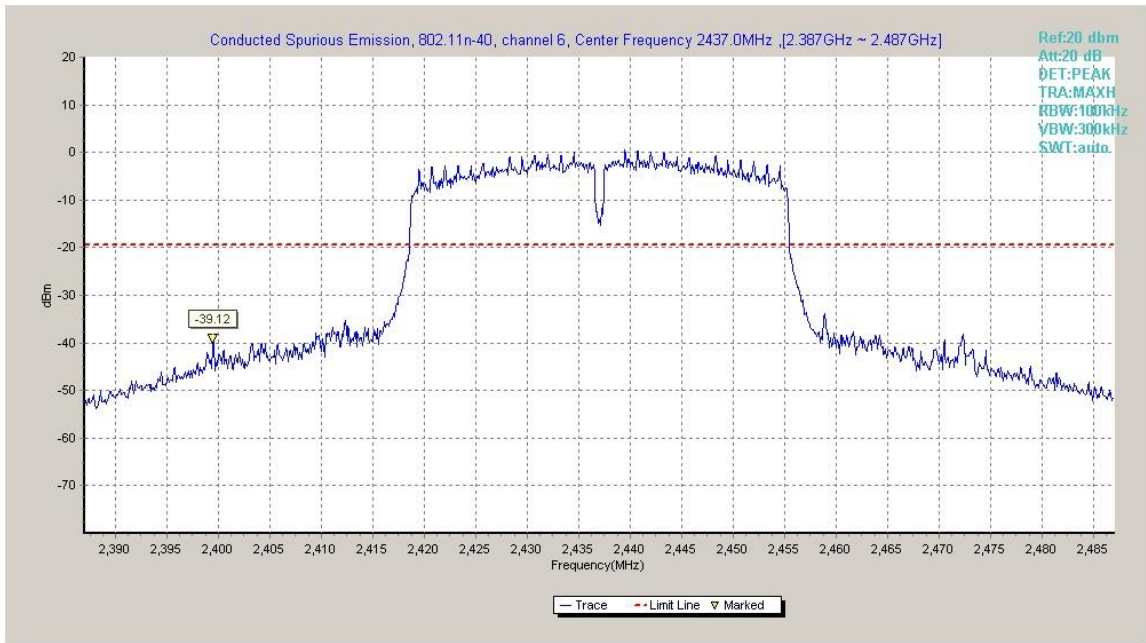


Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

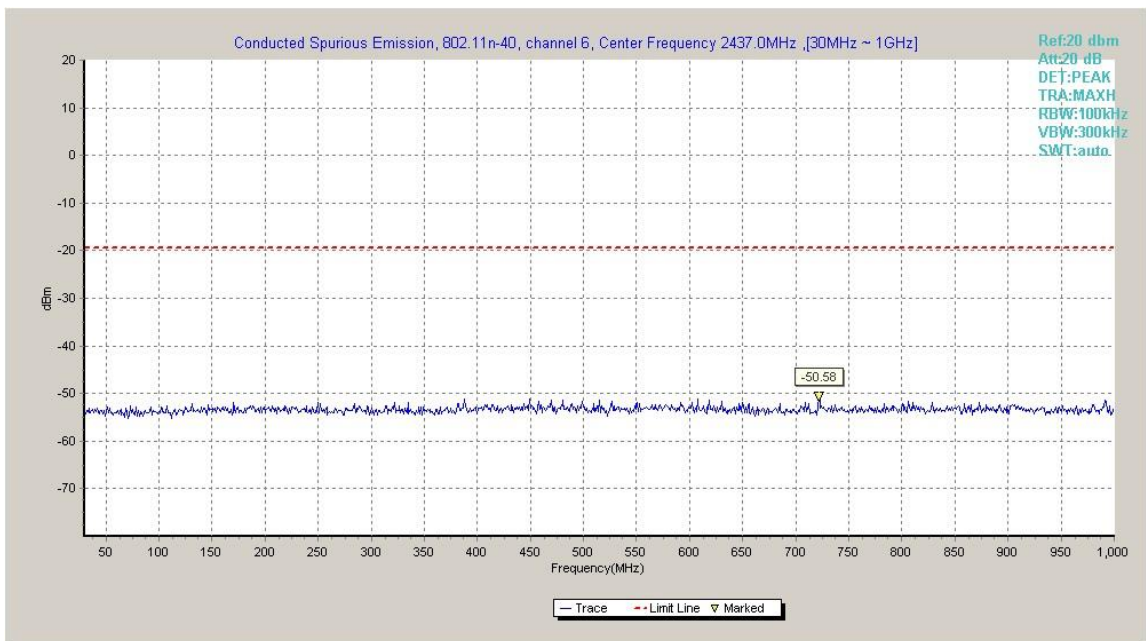


Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)

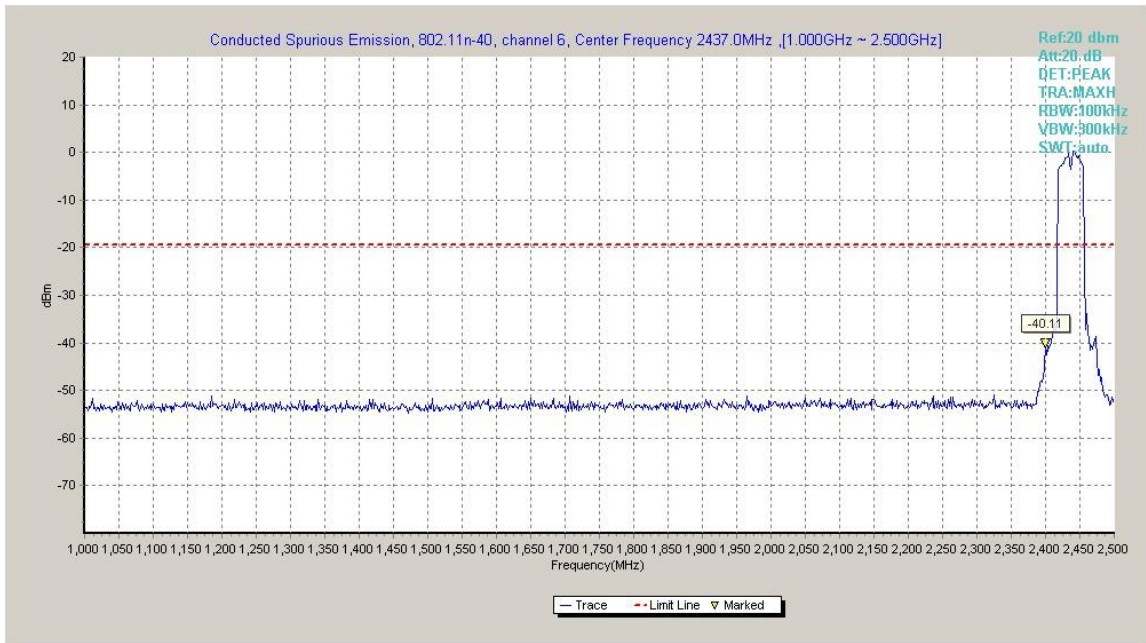


Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

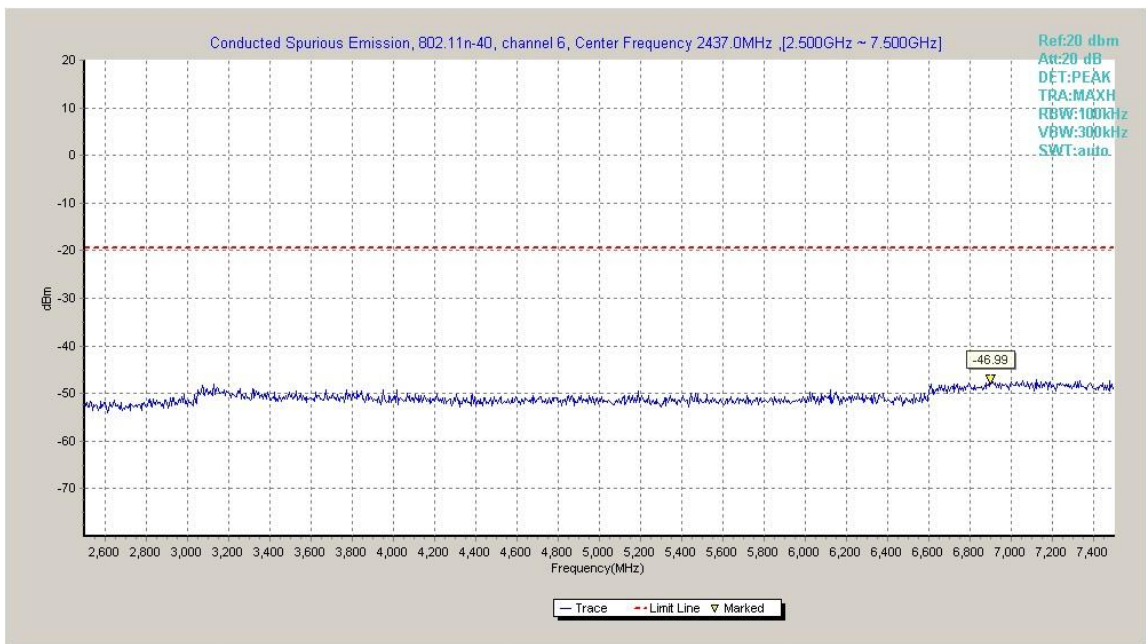


Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

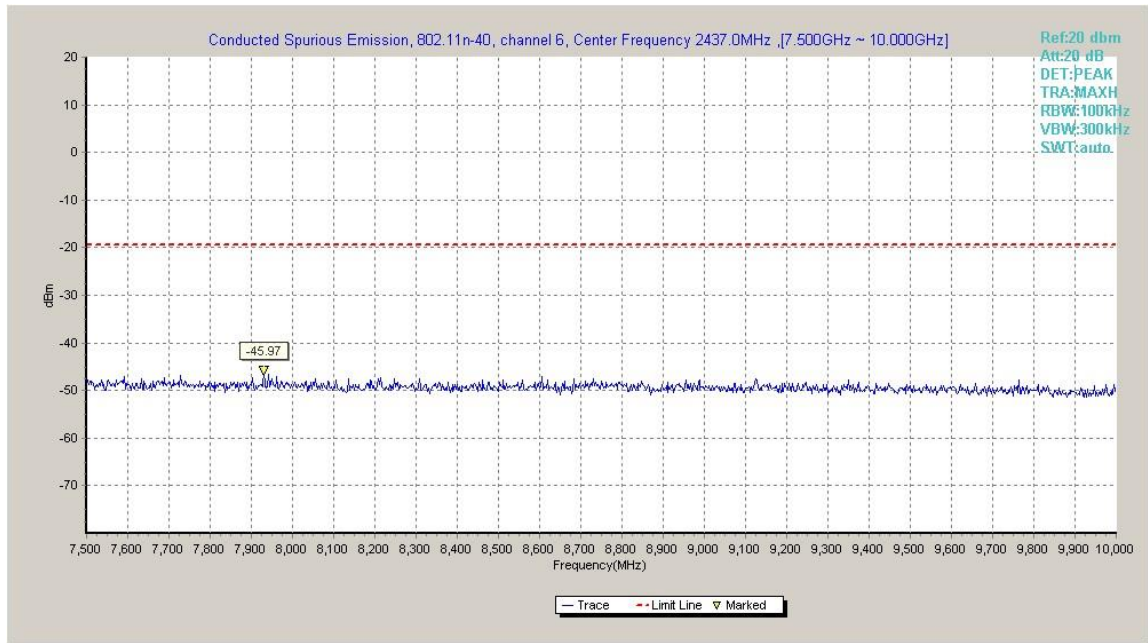


Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

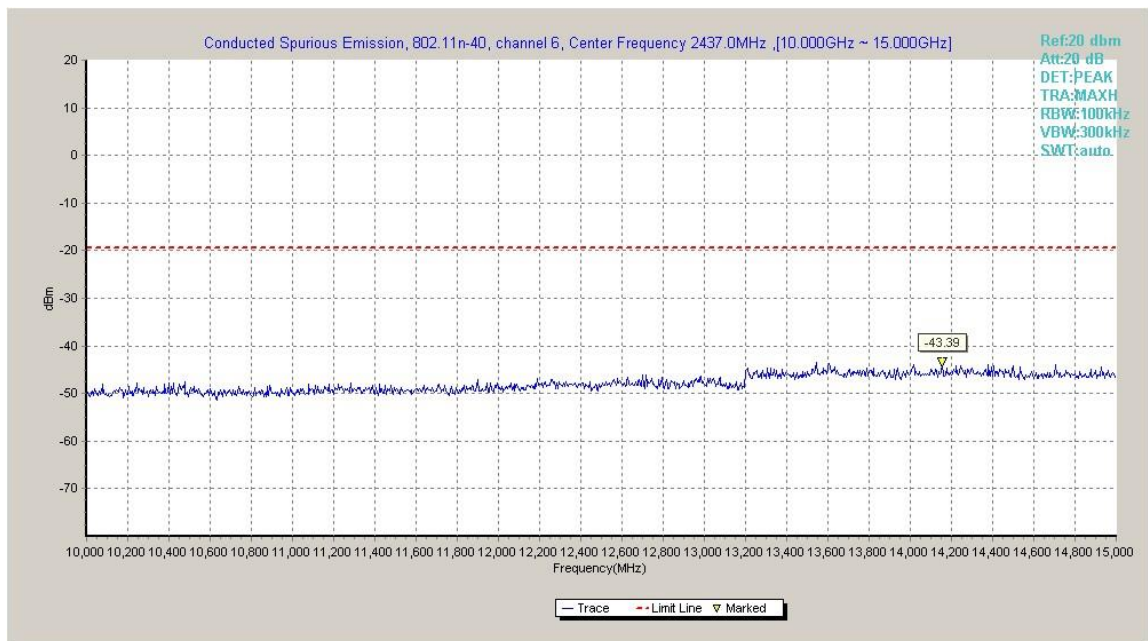


Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)

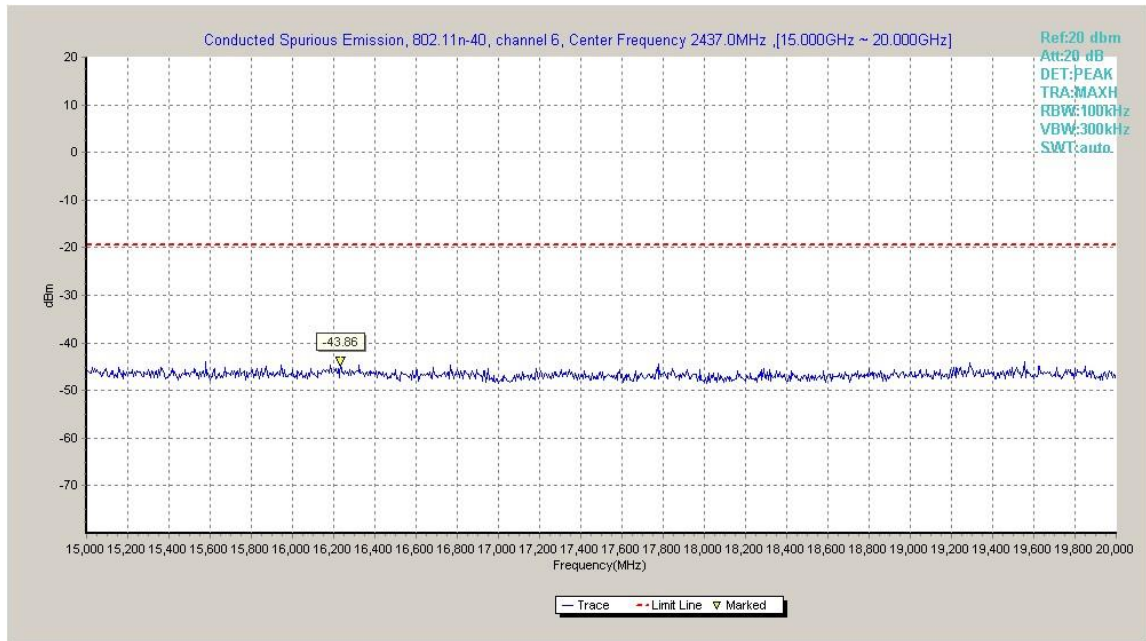


Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

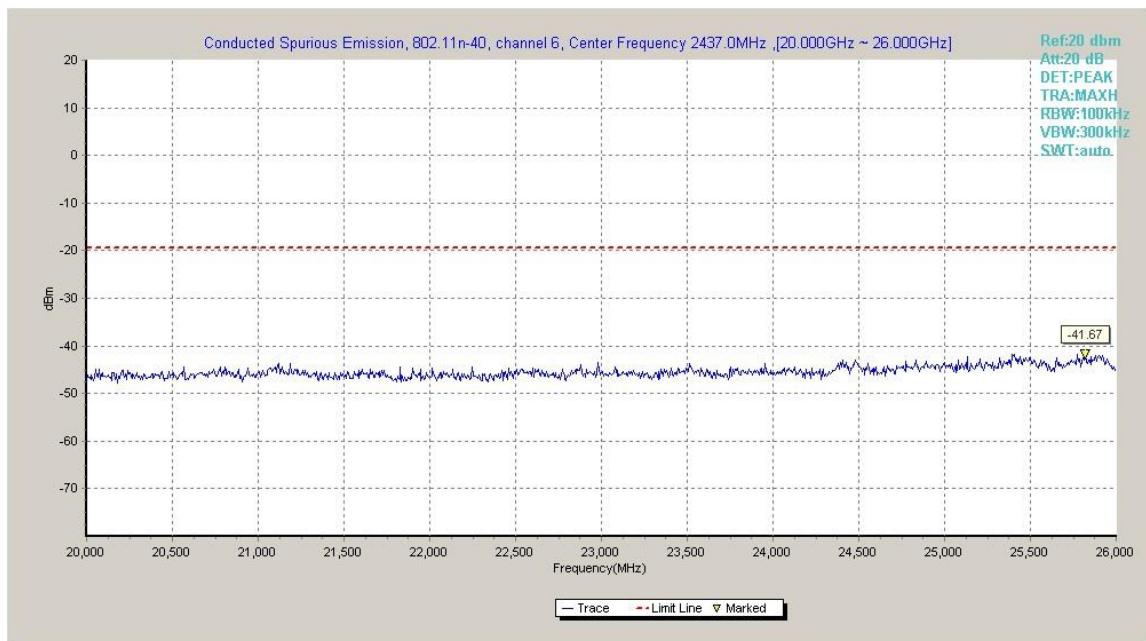


Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)

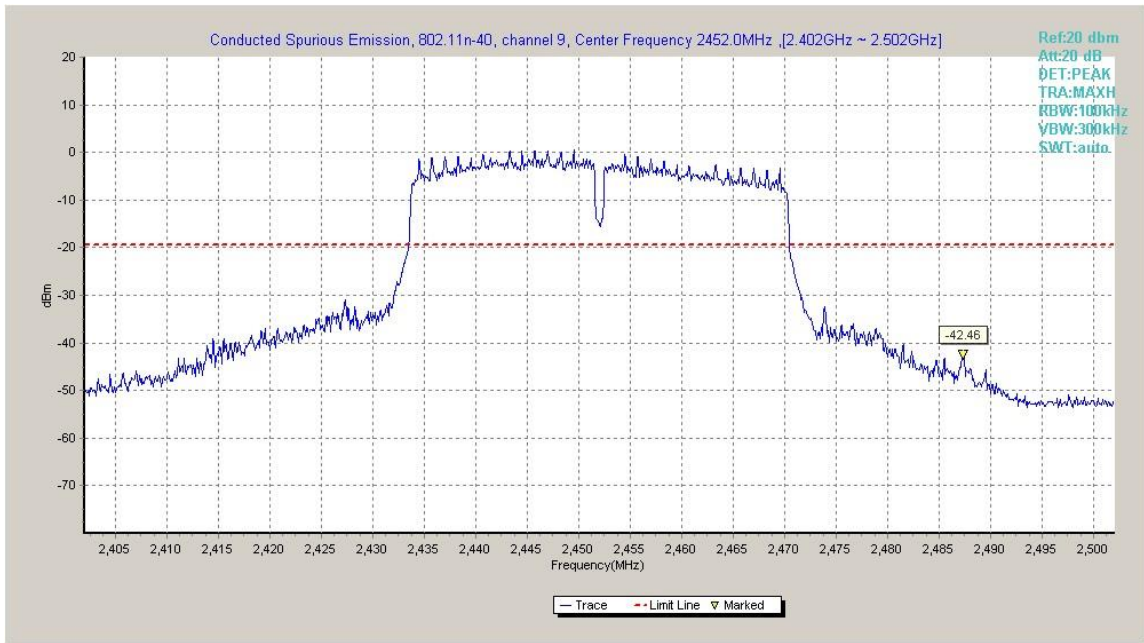


Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

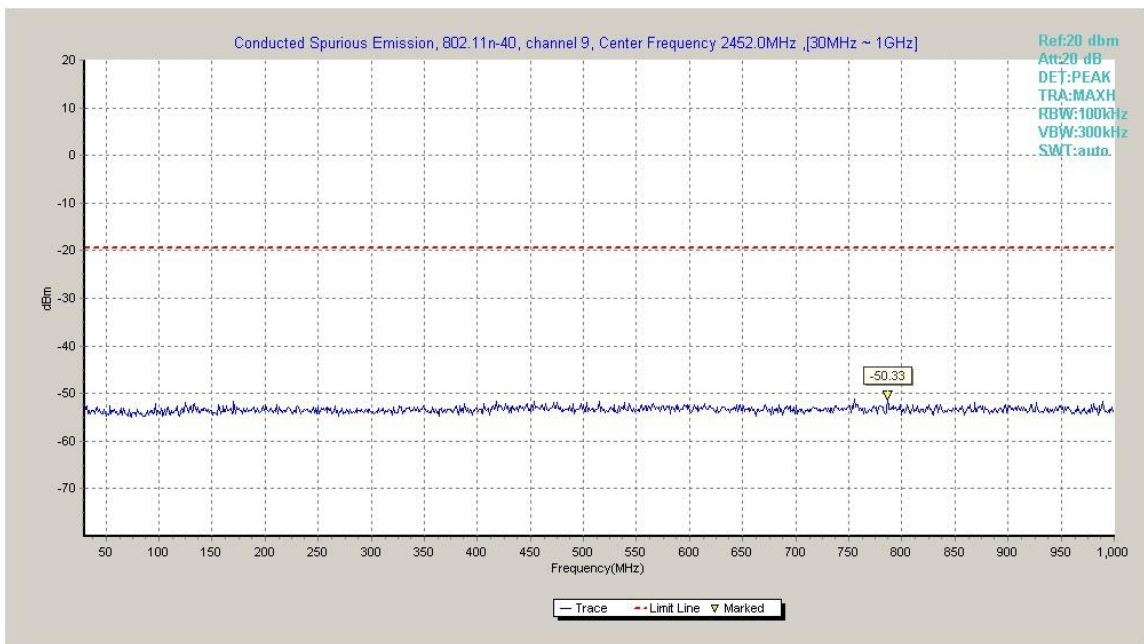


Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)

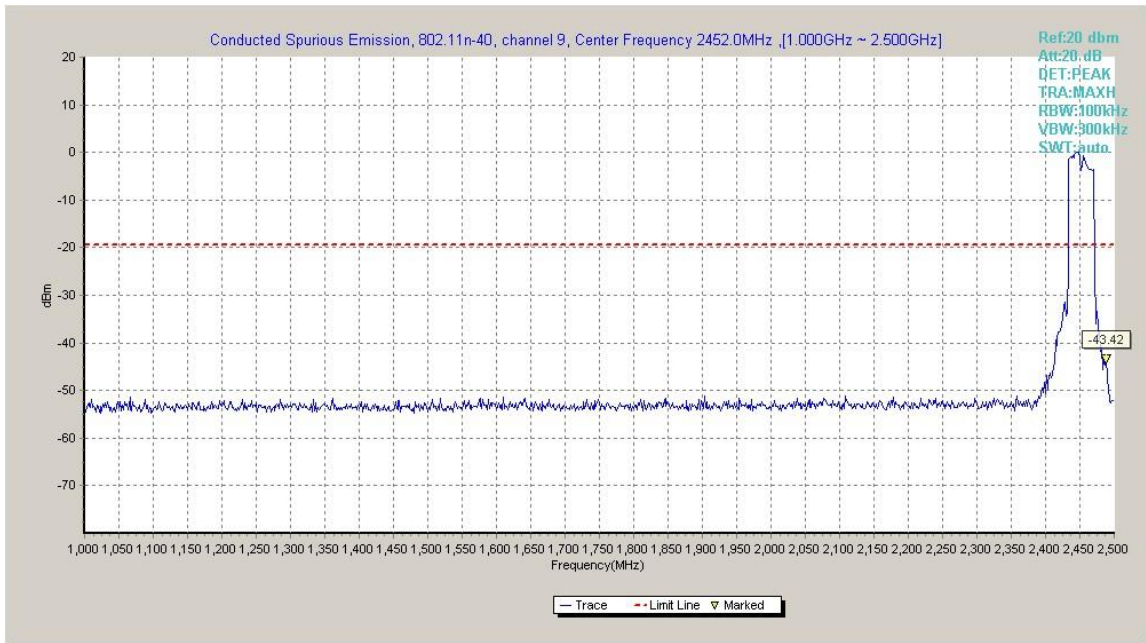


Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

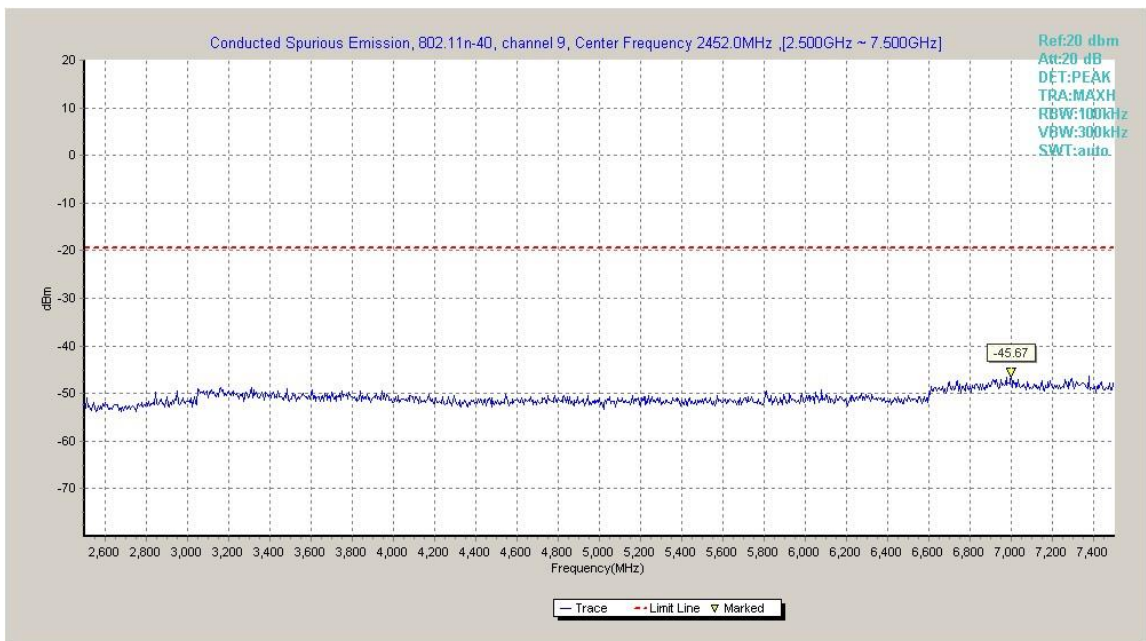


Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

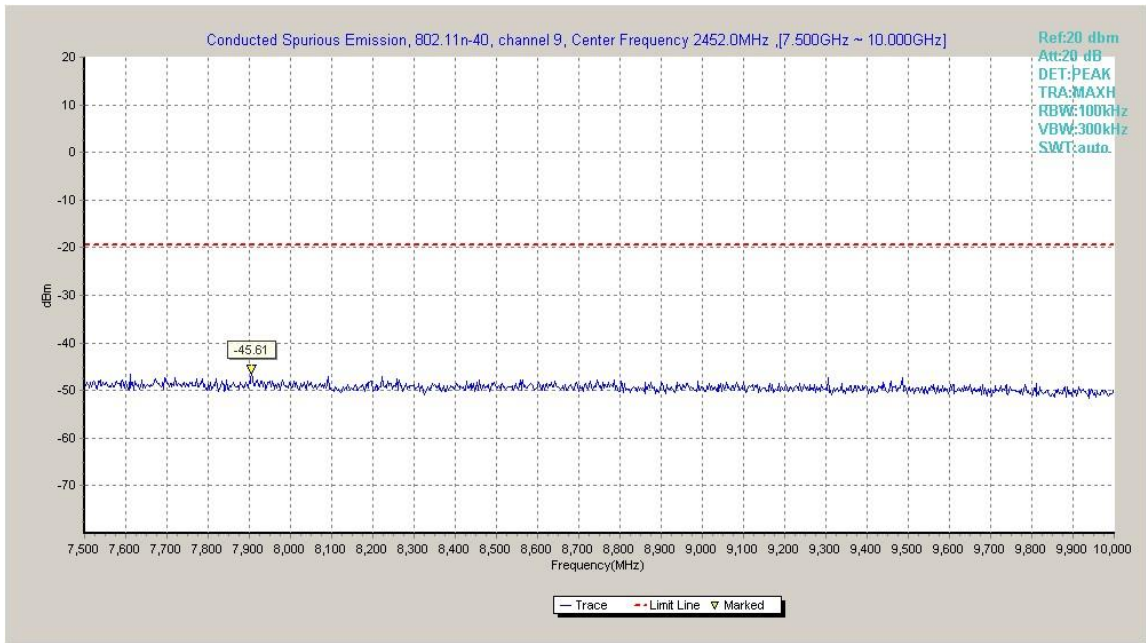


Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

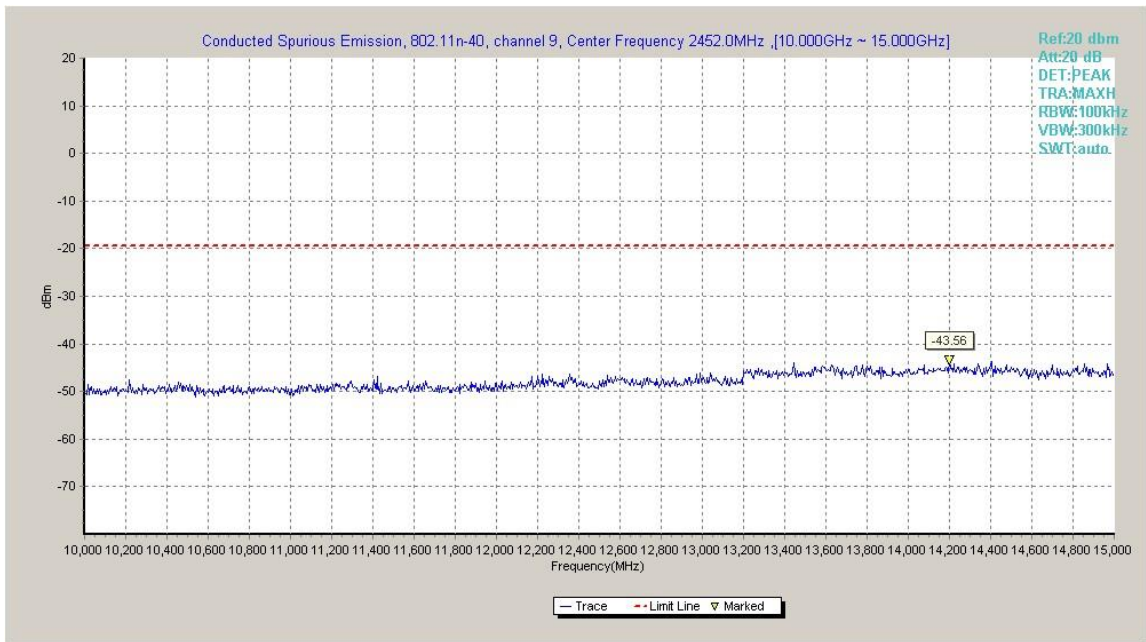


Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)

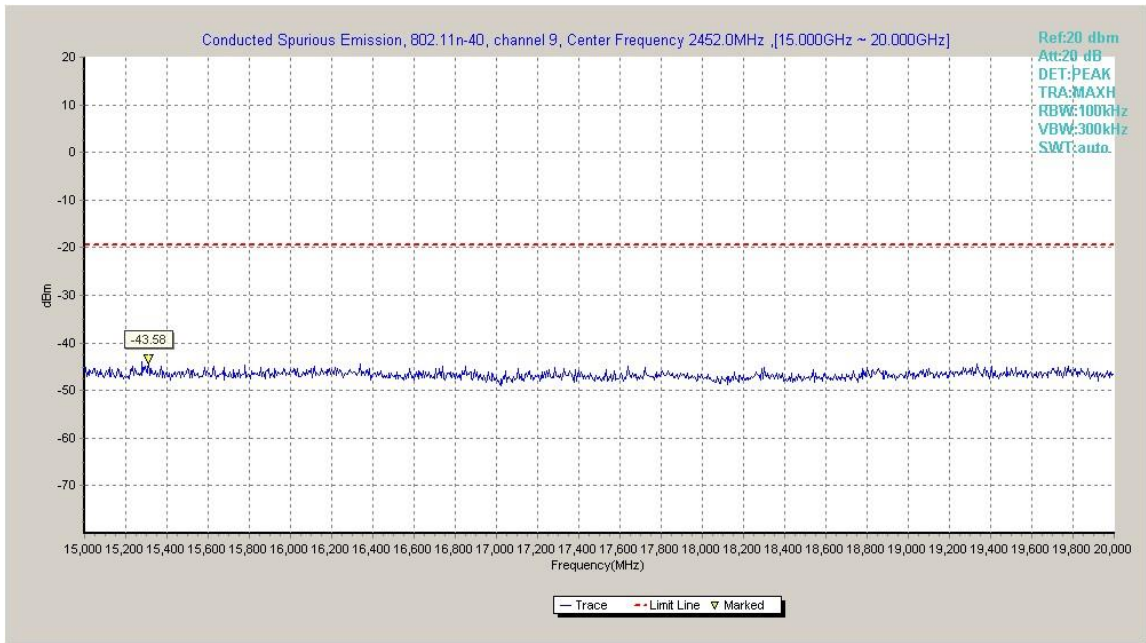


Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

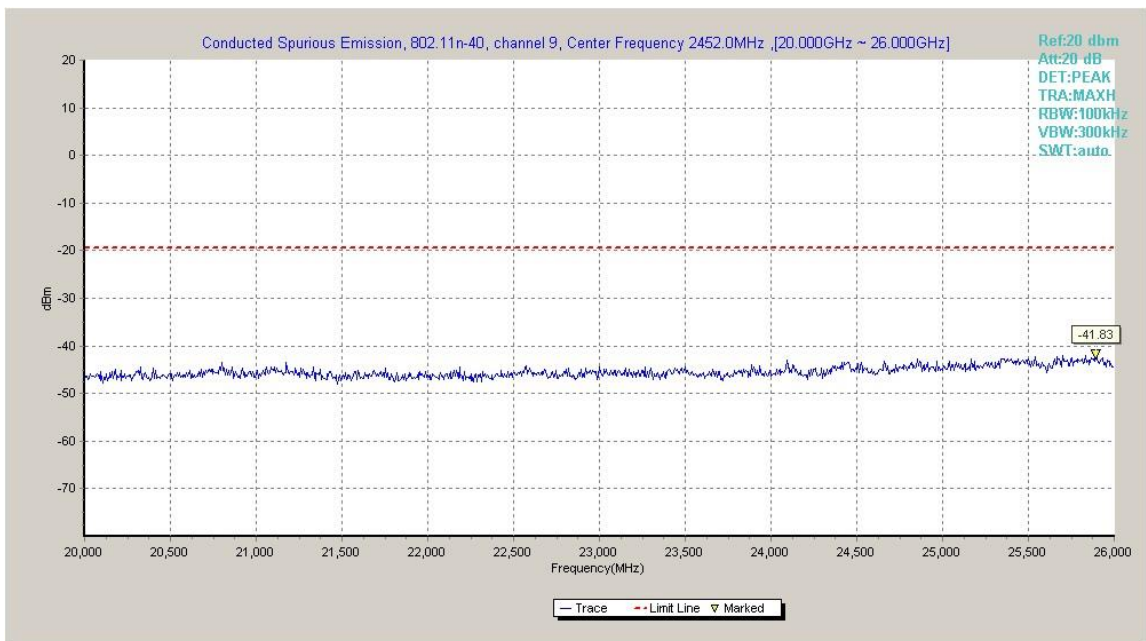


Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)

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(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	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.43GHz	Fig.A.6.2.1	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	P

802.11n mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (20MHz)	Power	2.38GHz ~2.43GHz	Fig.A.6.2.5	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.6	P
802.11n (40MHz)	Power	2.38GHz ~2.43GHz	Fig.A.6.2.7	P
	Power	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:

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

PEAK

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2388.665	58.1	-38.8	27.7	69.200	H
17938.000	55.7	-17.7	45.6	27.800	H
17945.500	55.4	-17.7	45.6	27.500	V
17865.500	55.2	-18.5	45.6	28.100	H
17924.500	55.2	-17.7	45.6	27.300	H
17923.500	55.1	-17.7	45.6	27.200	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17874.500	55.7	-18.5	45.6	28.600	H
17936.500	55.3	-17.7	45.6	27.400	H
17934.500	55.2	-17.7	45.6	27.300	V
17916.500	55.2	-17.7	45.6	27.300	H
17962.000	55.1	-17.7	45.6	27.200	H
17919.000	55.1	-17.7	45.6	27.200	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.535	54.6	-38.9	27.7	65.8	H
17918.500	56.8	-17.7	45.6	28.9	H
17894.500	56.2	-18.5	45.6	29.1	V
17914.500	56.1	-17.7	45.6	28.2	H
17891.500	55.6	-18.5	45.6	28.5	H
17843.000	55.5	-18.5	45.6	28.4	H

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.985	66.9	-38.8	27.7	78.0	H
17900.500	55.9	-18.5	45.6	28.8	H
17940.500	55.8	-17.7	45.6	27.9	V
17916.000	55.7	-17.7	45.6	27.8	H
17908.000	55.5	-18.5	45.6	28.4	H
17902.500	55.4	-18.5	45.6	28.3	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17936.500	55.9	-17.7	45.6	28.0	H
17900.500	55.7	-18.5	45.6	28.6	H
17920.000	55.7	-17.7	45.6	27.8	V
17925.500	55.6	-17.7	45.6	27.7	H
17871.000	55.6	-18.5	45.6	28.5	H
17898.500	55.5	-18.5	45.6	28.4	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.595	64.1	-38.9	27.7	75.3	H
17958.500	56.1	-17.7	45.6	28.2	H
17899.000	55.7	-18.5	45.6	28.6	V
17978.000	55.7	-17.7	45.6	27.8	H
17871.000	55.6	-18.5	45.6	28.5	H
17913.000	55.4	-18.5	45.6	28.3	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.955	60.7	-38.8	27.7	71.8	H
17911.500	56.8	-18.5	45.6	29.7	H
17919.500	55.7	-17.7	45.6	27.8	V
17894.000	55.4	-18.5	45.6	28.3	H
17935.000	55.3	-17.7	45.6	27.4	H
17910.500	55.2	-18.5	45.6	28.1	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17953.000	55.9	-17.7	45.6	28.0	H
17920.000	55.8	-17.7	45.6	27.9	H
17917.000	55.6	-17.7	45.6	27.7	V
17853.000	55.5	-18.5	45.6	28.4	H
17947.000	55.4	-17.7	45.6	27.5	H
17949.000	55.3	-17.7	45.6	27.4	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2484.160	62.1	-38.9	27.7	73.3	H
17971.000	55.8	-17.7	45.6	27.9	H
17895.000	55.5	-18.5	45.6	28.4	V
17919.500	55.3	-17.7	45.6	27.4	H
17856.000	55.3	-18.5	45.6	28.2	H
17910.000	55.3	-18.5	45.6	28.2	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.725	61.9	-38.8	27.7	73.000	H
17911.000	55.8	-18.5	45.6	28.700	H
17917.500	55.6	-17.7	45.6	27.700	V
17936.500	55.5	-17.7	45.6	27.600	H
17952.000	55.5	-17.7	45.6	27.600	H
17920.500	55.4	-17.7	45.6	27.500	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17903.500	57.4	-18.5	45.6	30.3	H
17910.500	56.4	-18.5	45.6	29.3	H
17842.000	56.1	-18.5	45.6	29.0	V
17940.000	55.8	-17.7	45.6	27.9	H
17936.000	55.6	-17.7	45.6	27.7	H
17803.000	55.6	-18.5	45.6	28.5	H

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.515	62.8	-38.9	27.7	74.0	H
17913.500	56.0	-18.5	45.6	28.9	H
17900.500	56.0	-18.5	45.6	28.9	V
17907.500	55.7	-18.5	45.6	28.6	H
17939.000	55.7	-17.7	45.6	27.8	H
17918.000	55.6	-17.7	45.6	27.7	H

AVERAGE

802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.860	46.4	-38.8	27.7	57.500	H
17931.000	43.9	-17.7	45.6	16.000	H
17917.000	43.9	-17.7	45.6	16.000	V
17915.000	43.9	-17.7	45.6	16.000	H
17928.500	43.8	-17.7	45.6	15.900	H
17922.500	43.7	-17.7	45.6	15.800	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17924.000	44.0	-17.7	45.6	16.100	H
17923.000	43.9	-17.7	45.6	16.000	H
17910.000	43.8	-18.5	45.6	16.700	V
17922.000	43.7	-17.7	45.6	15.800	H
17925.000	43.7	-17.7	45.6	15.800	H
17902.000	43.7	-18.5	45.6	16.600	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.550	42.7	-38.9	27.7	53.9	H
17906.500	44.0	-18.5	45.6	16.9	H
17907.500	43.8	-18.5	45.6	16.7	V
17918.500	43.8	-17.7	45.6	15.9	H
17915.000	43.8	-17.7	45.6	15.9	H
17912.000	43.8	-18.5	45.6	16.7	H

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.985	49.8	-38.8	27.7	60.9	H
17920.000	44.2	-17.7	45.6	16.3	H
17917.000	44.1	-17.7	45.6	16.2	V
17915.000	44.1	-17.7	45.6	16.2	H
17906.500	44.0	-18.5	45.6	16.9	H
17906.000	44.0	-18.5	45.6	16.9	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17909.000	44.1	-18.5	45.6	17.000	H
17900.500	44.0	-18.5	45.6	16.900	H
17917.000	44.0	-17.7	45.6	16.100	V
17948.500	44.0	-17.7	45.6	16.100	H
17950.000	43.9	-17.7	45.6	16.000	H
17913.500	43.9	-18.5	45.6	16.800	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.565	48.6	-38.9	27.7	59.8	H
17913.000	44.1	-18.5	45.6	17.0	H
17931.000	44.0	-17.7	45.6	16.1	V
17912.000	44.0	-18.5	45.6	16.9	H
17936.000	43.9	-17.7	45.6	16.0	H
17908.500	43.9	-18.5	45.6	16.8	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.925	42.4	-38.8	27.7	53.5	H
17912.000	44.1	-18.5	45.6	17.0	H
17927.000	44.0	-17.7	45.6	16.1	V
17922.000	43.9	-17.7	45.6	16.0	H
17929.500	43.9	-17.7	45.6	16.0	H
17917.000	43.9	-17.7	45.6	16.0	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17906.000	44.3	-18.5	45.6	17.2	H
17920.000	44.2	-17.7	45.6	16.3	H
17925.000	43.9	-17.7	45.6	16.0	V
17918.000	43.9	-17.7	45.6	16.0	H
17923.500	43.9	-17.7	45.6	16.0	H
17929.000	43.9	-17.7	45.6	16.0	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.535	40.4	-38.9	27.7	51.6	H
17911.500	44.1	-18.5	45.6	17.0	H
17923.000	44.0	-17.7	45.6	16.1	V
17907.000	44.0	-18.5	45.6	16.9	H
17904.500	43.9	-18.5	45.6	16.8	H
17889.500	43.9	-18.5	45.6	16.8	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.890	43.8	-38.8	27.7	54.900	H
17916.000	44.0	-17.7	45.6	16.100	H
17937.000	43.9	-17.7	45.6	16.000	V
17906.000	43.9	-18.5	45.6	16.800	H
17911.000	43.9	-18.5	45.6	16.800	H
17926.000	43.9	-17.7	45.6	16.000	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17910.500	44.1	-18.5	45.6	17.0	H
17910.000	44.1	-18.5	45.6	17.0	H
17924.000	44.0	-17.7	45.6	16.1	V
17927.500	44.0	-17.7	45.6	16.1	H
17903.000	43.9	-18.5	45.6	16.8	H
17906.000	43.9	-18.5	45.6	16.8	H

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.535	48.0	-38.9	27.7	59.2	H
17904.000	44.0	-18.5	45.6	16.9	H
17909.500	44.0	-18.5	45.6	16.9	V
17909.000	44.0	-18.5	45.6	16.9	H
17916.500	43.9	-17.7	45.6	16.0	H
17932.000	43.8	-17.7	45.6	15.9	H

Test graphs as below:

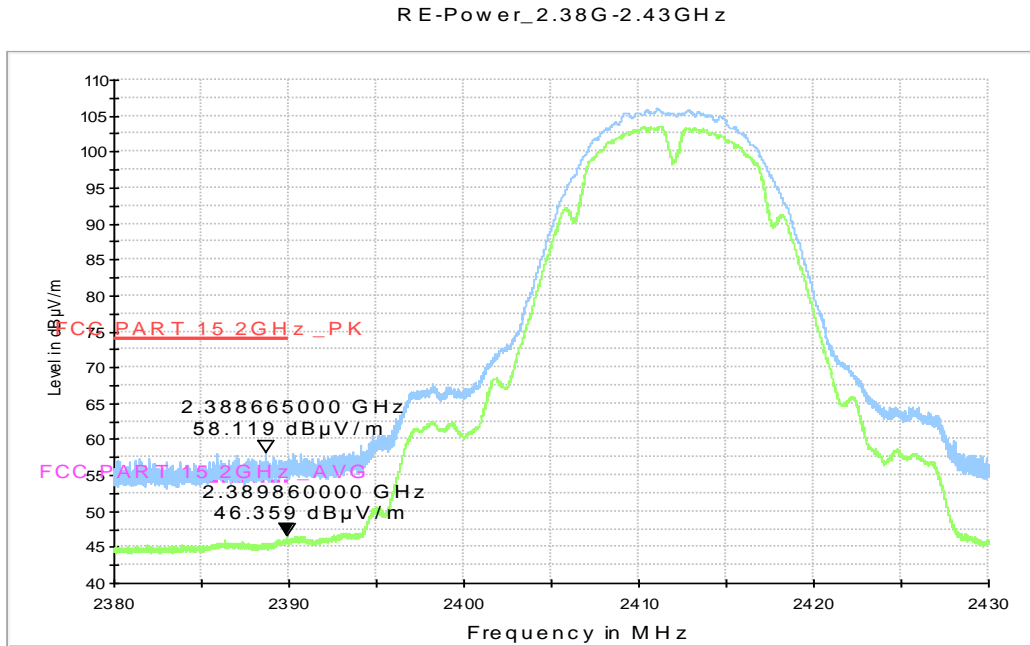


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.43GHz

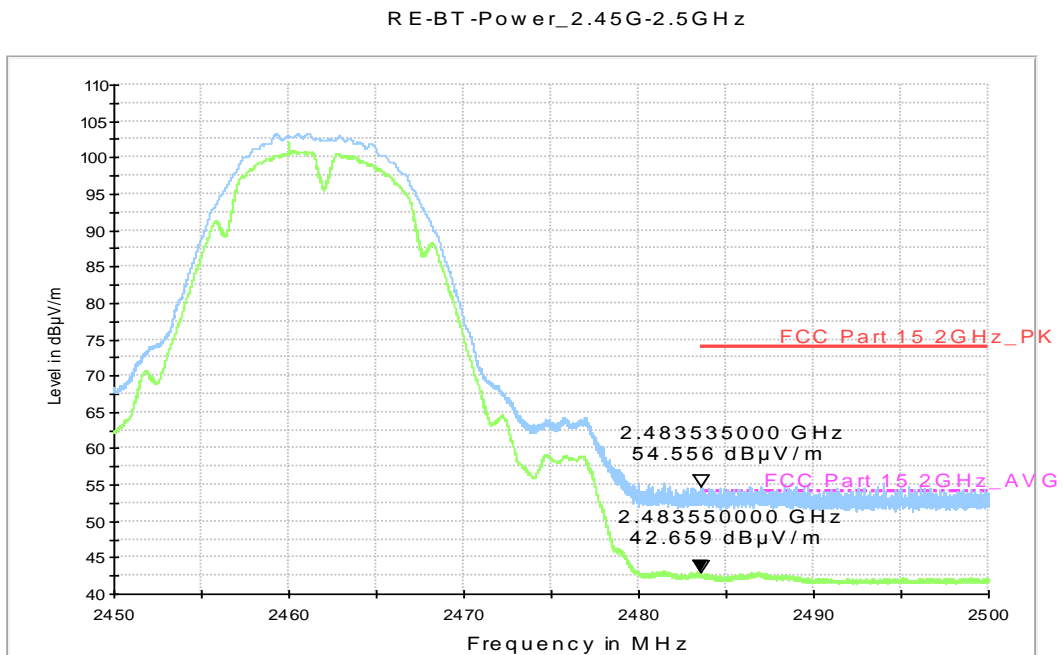


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

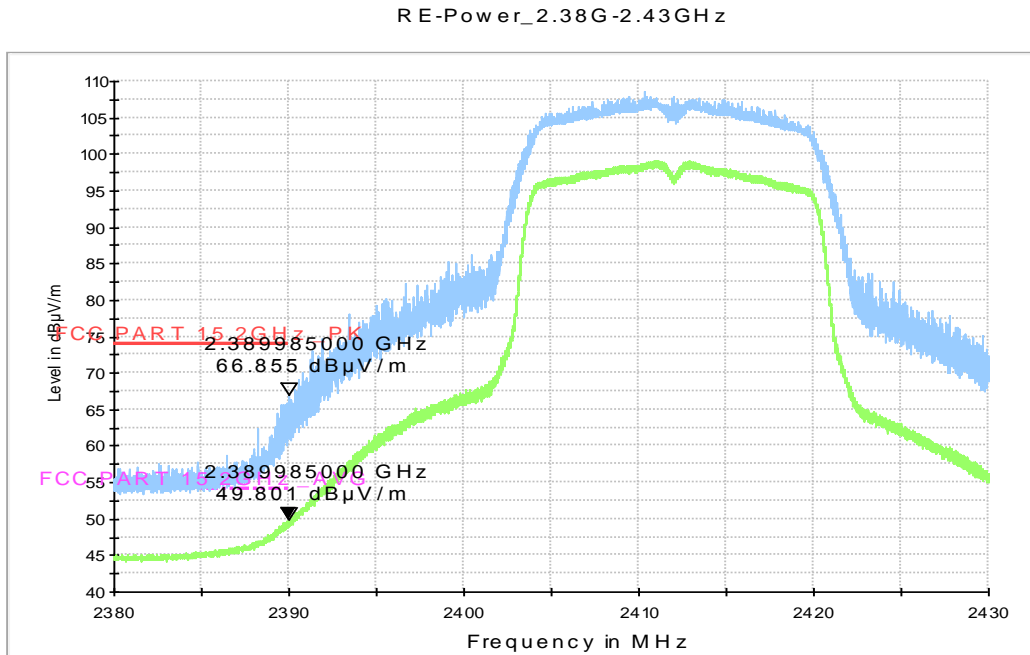
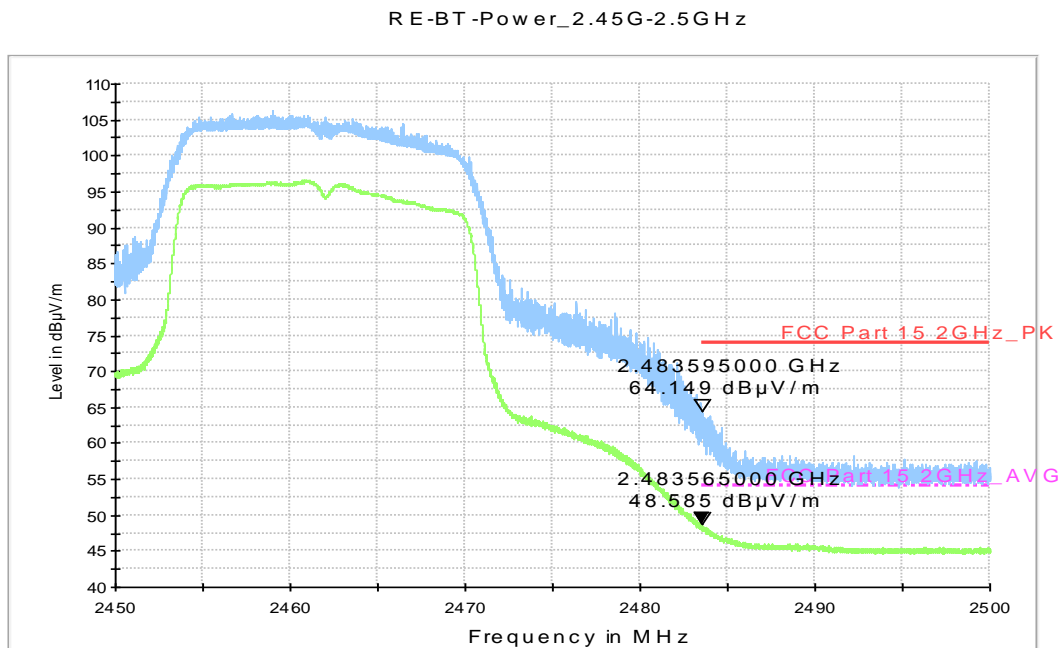


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz



3

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

RE - Power-2.38GHz-2.45GHz

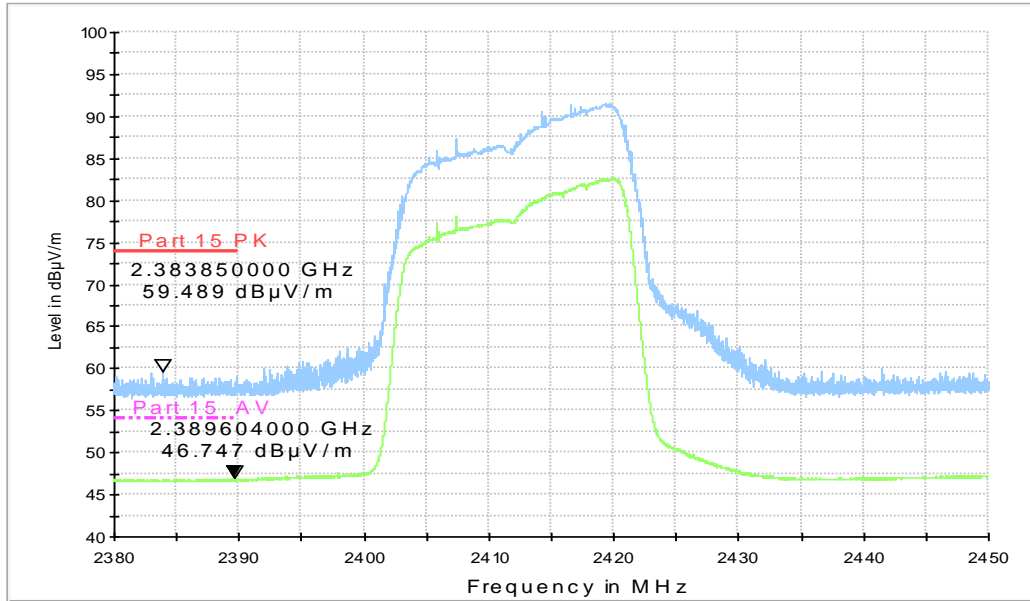


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

RE - Power-2.45GHz-2.5GHz

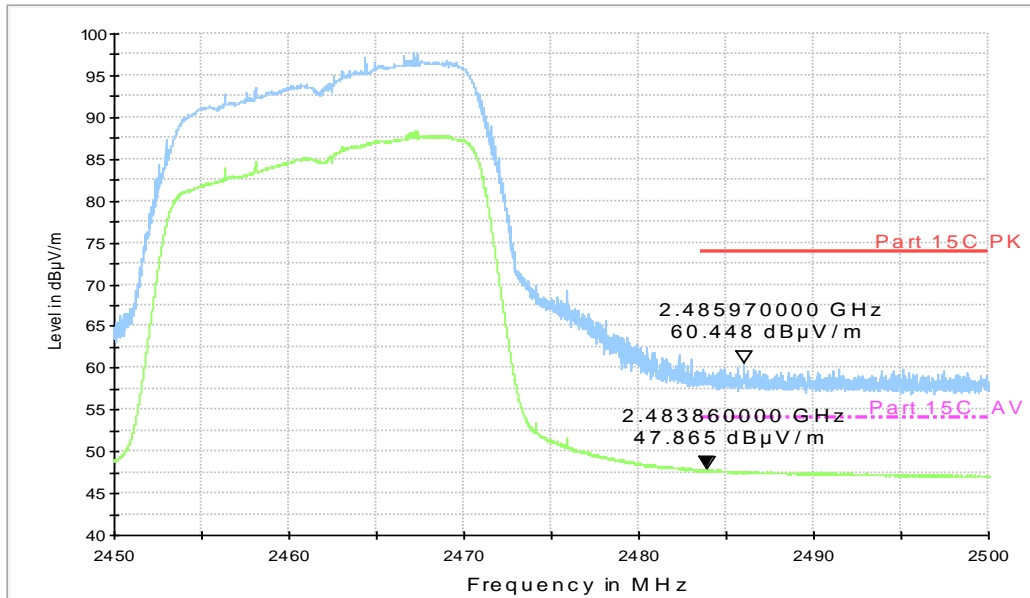


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

RE - Power-2.38GHz-2.45GHz

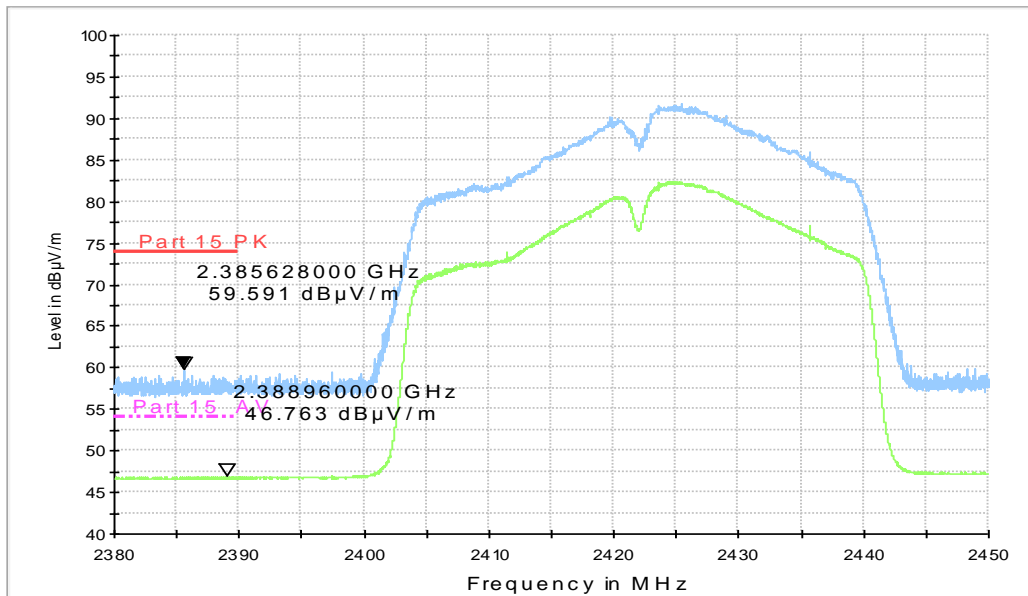


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.43GHz

RE - Power-2.45GHz-2.5GHz

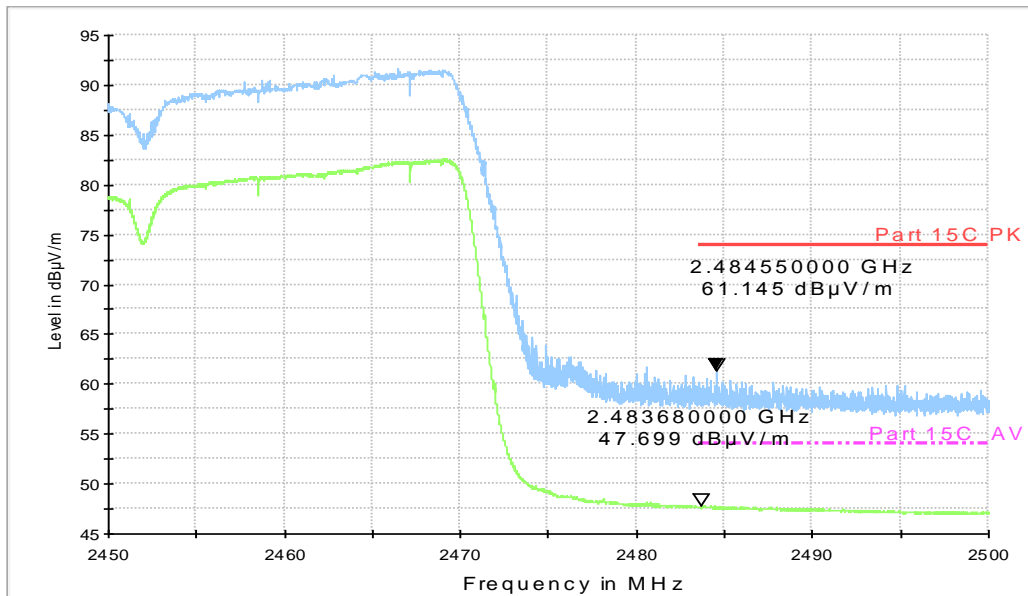


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

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	
0.15 to 0.5	66 to 56	Fig.A.7.1	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	
0.15 to 0.5	56 to 46	Fig.A.7.1	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:

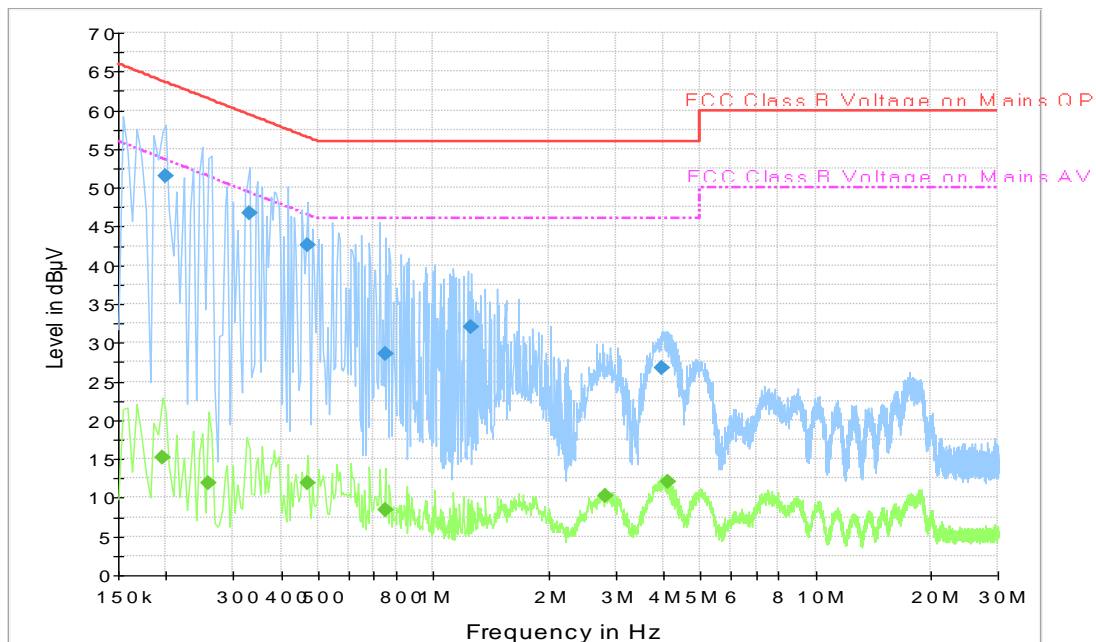


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.199500	51.5	2000.0	9.000	On	N	19.6	12.1	63.6
0.330000	46.7	2000.0	9.000	On	N	19.6	12.7	59.5
0.469500	42.6	2000.0	9.000	On	N	19.6	13.9	56.5
0.748500	28.6	2000.0	9.000	On	L1	19.6	27.4	56.0
1.261500	32.0	2000.0	9.000	On	L1	19.6	24.0	56.0
3.979500	26.7	2000.0	9.000	On	L1	19.7	29.3	56.0

Final Result 2

Frequency (MHz)	QuasiPeak (dB μ V)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.195000	15.2	2000.0	9.000	On	L1	19.6	38.6	53.8
0.258000	11.8	2000.0	9.000	On	L1	19.6	39.6	51.5
0.469500	12.0	2000.0	9.000	On	N	19.6	34.6	46.5
0.748500	8.5	2000.0	9.000	On	L1	19.6	37.5	46.0
2.827500	10.2	2000.0	9.000	On	L1	19.6	35.8	46.0
4.096500	12.0	2000.0	9.000	On	L1	19.7	34.0	46.0