

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

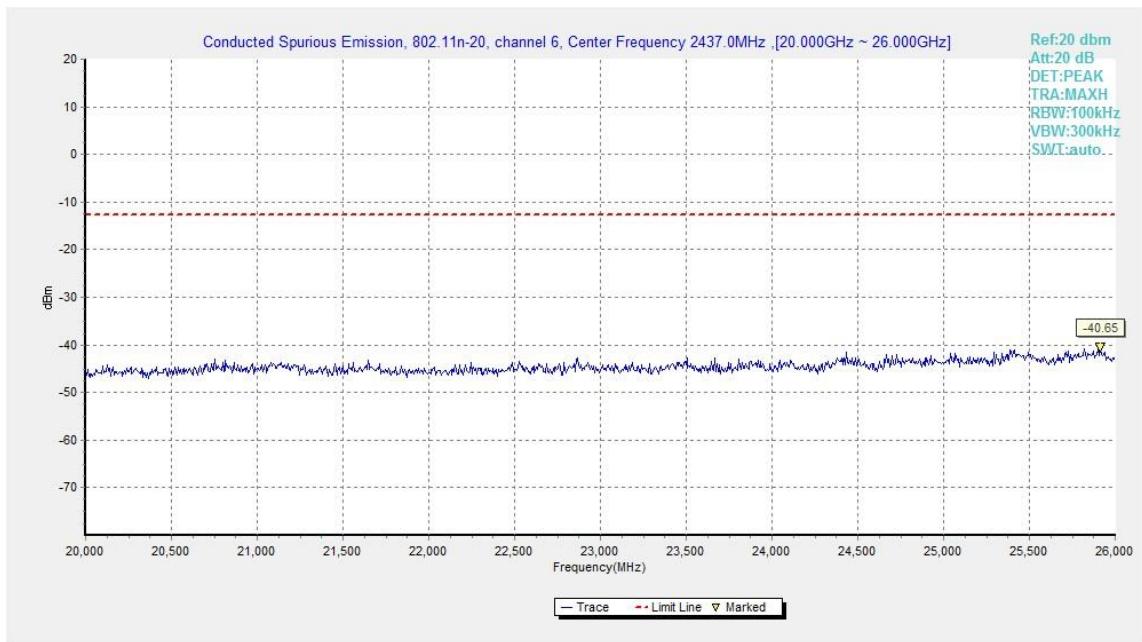


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

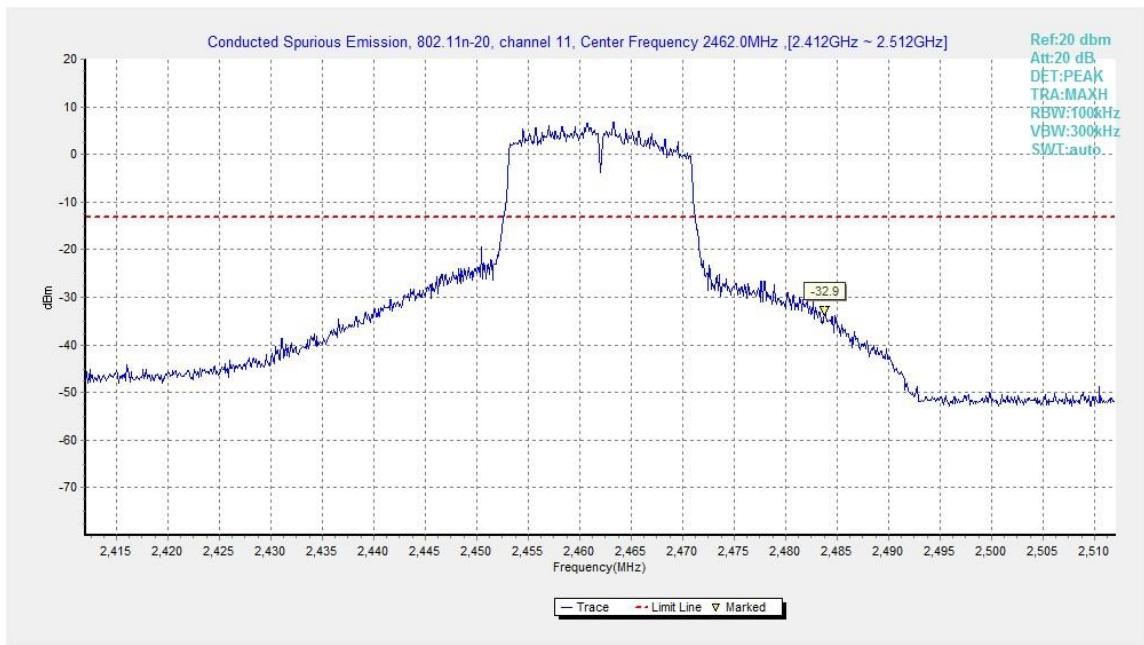


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

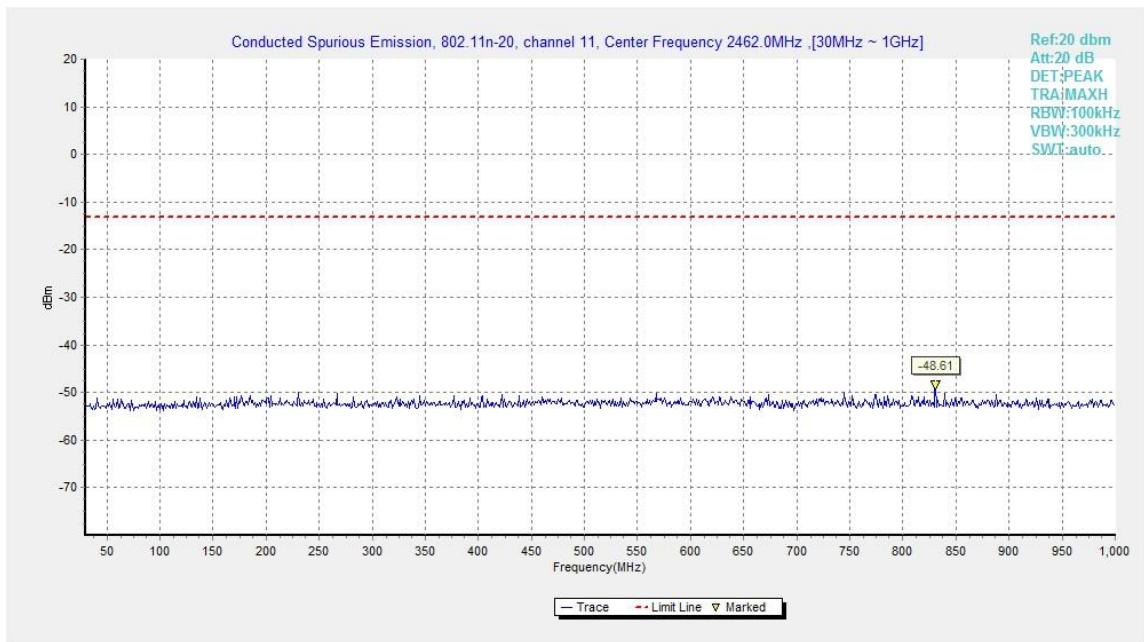


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

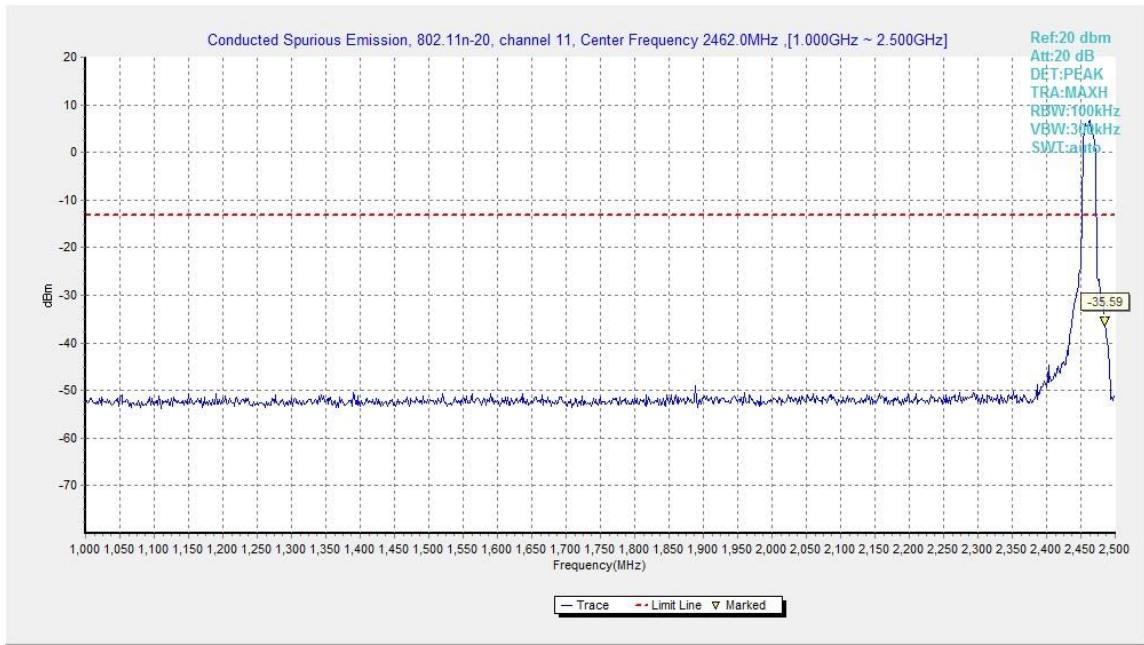


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

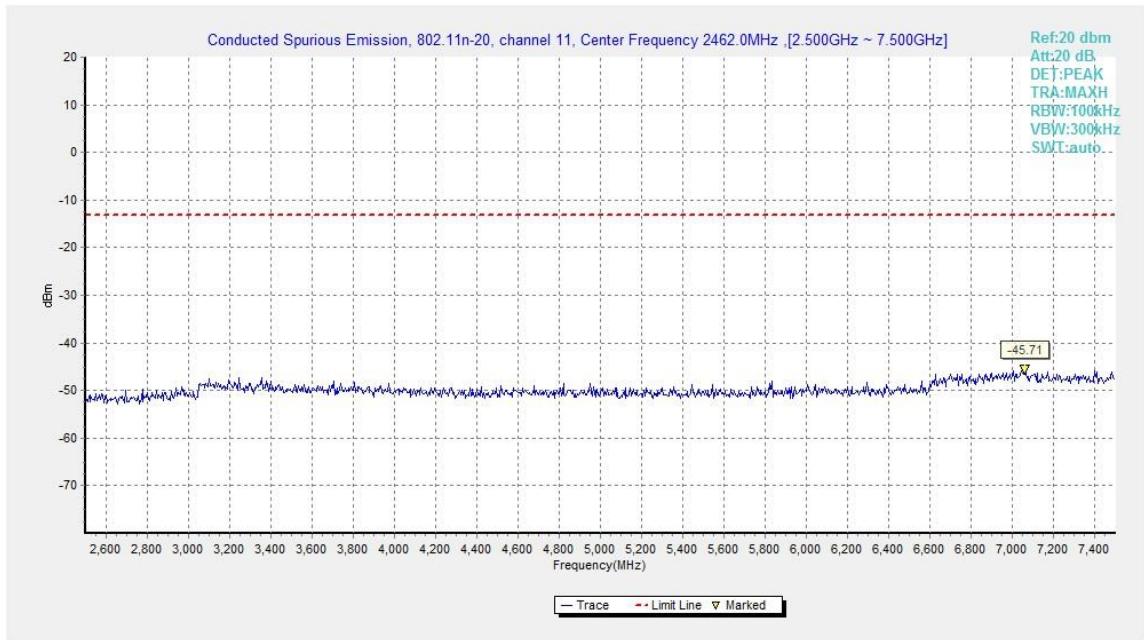


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

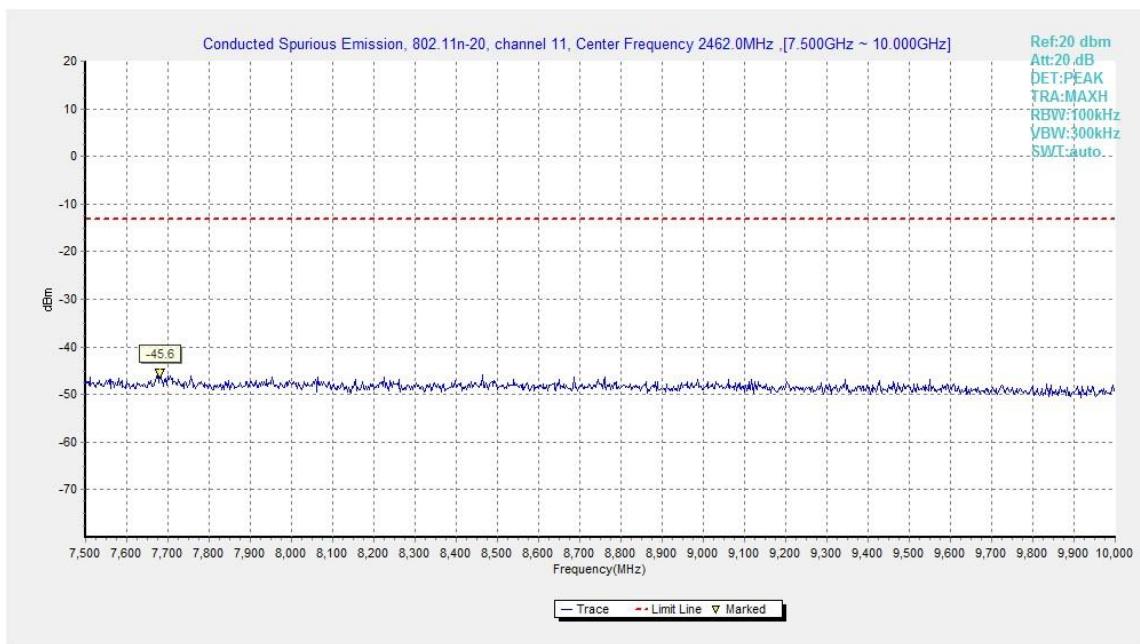


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

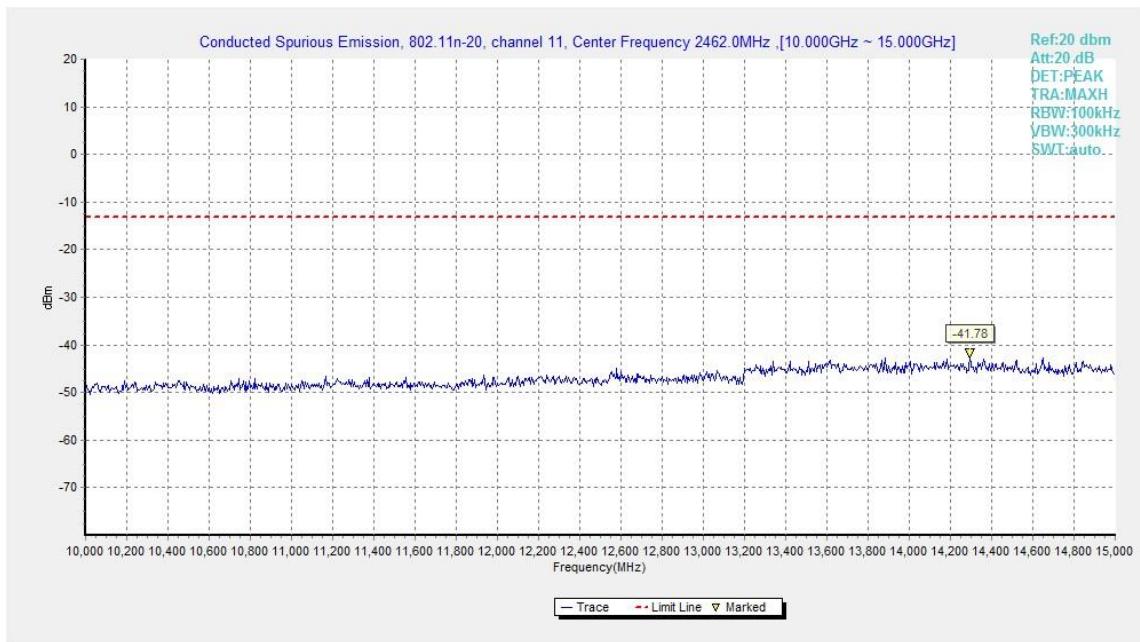


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

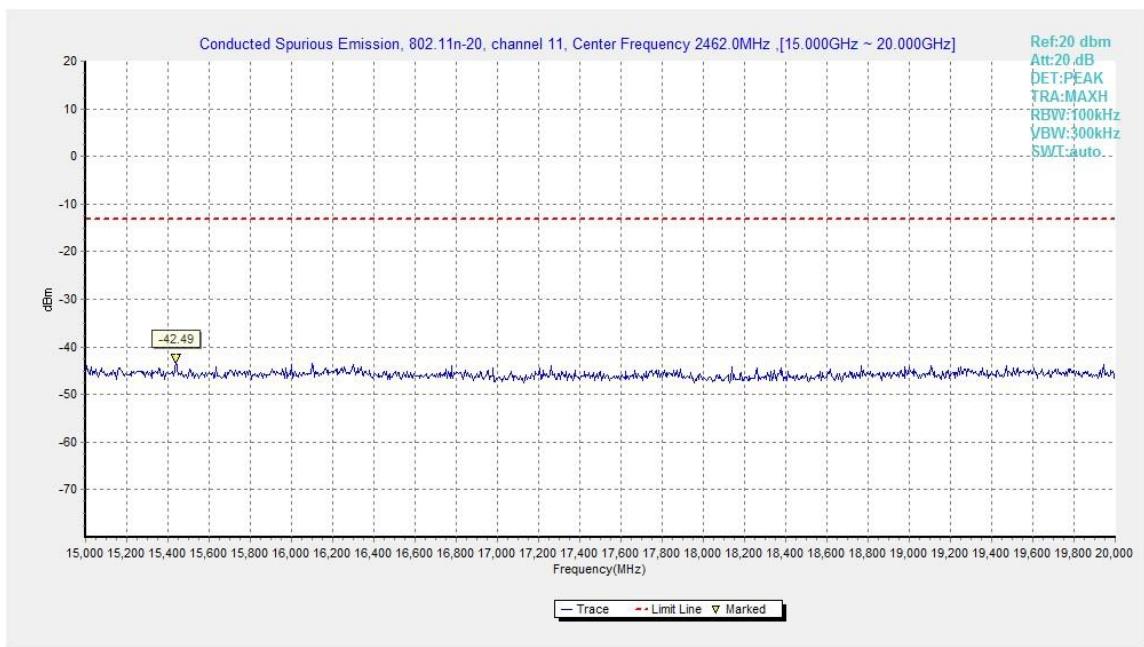


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

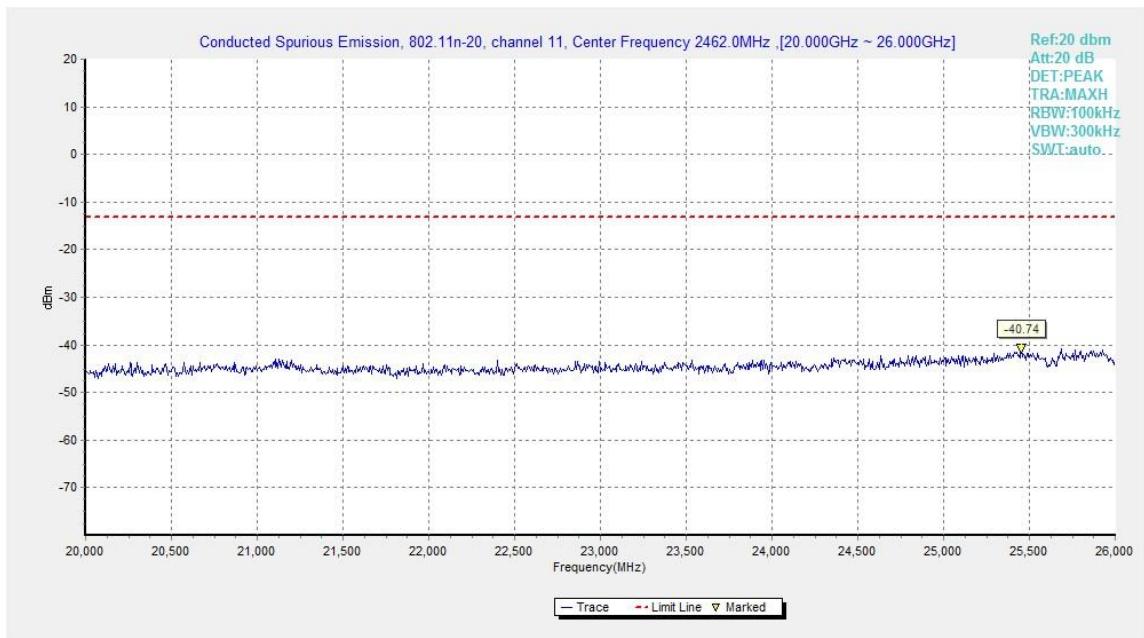


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

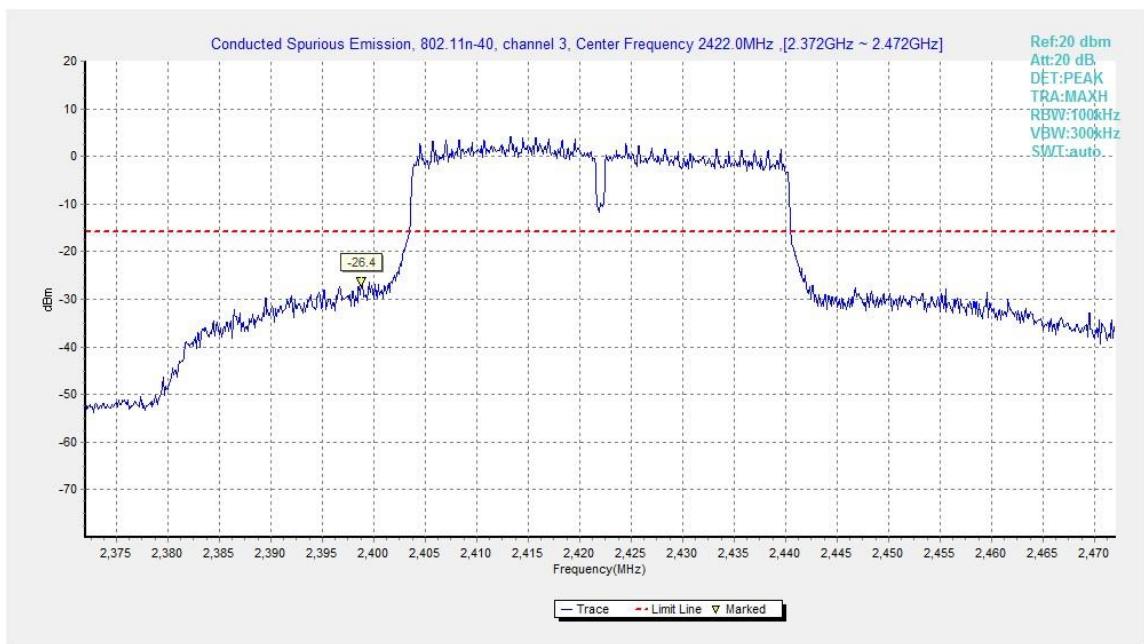


Fig.A.6.1.73 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, Center Frequency)

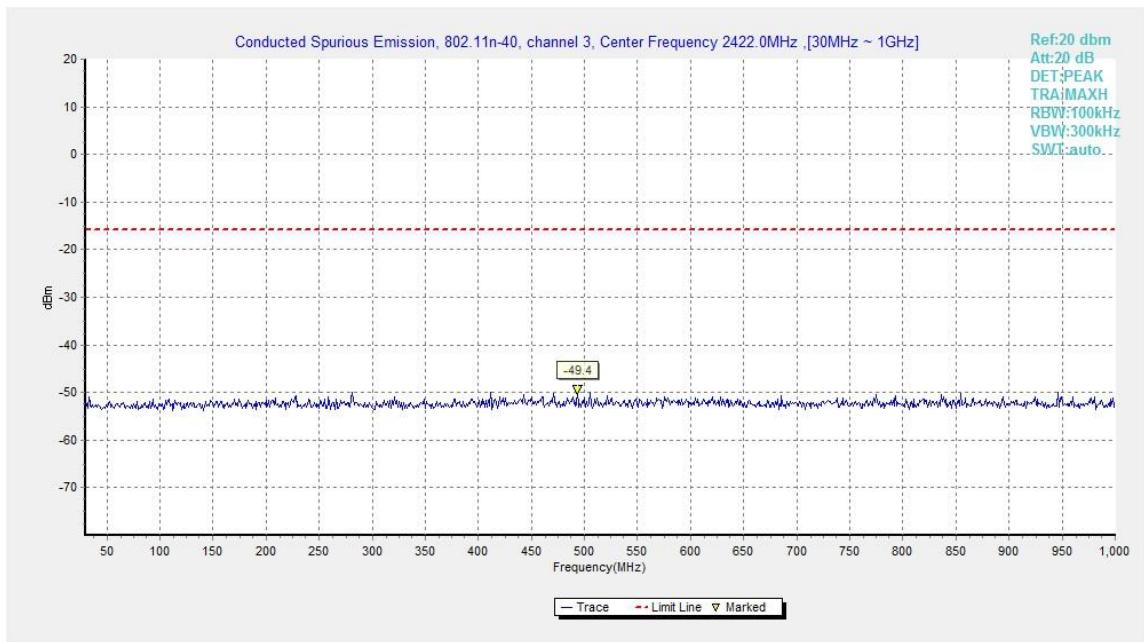


Fig.A.6.1.74 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 30 MHz-1 GHz)

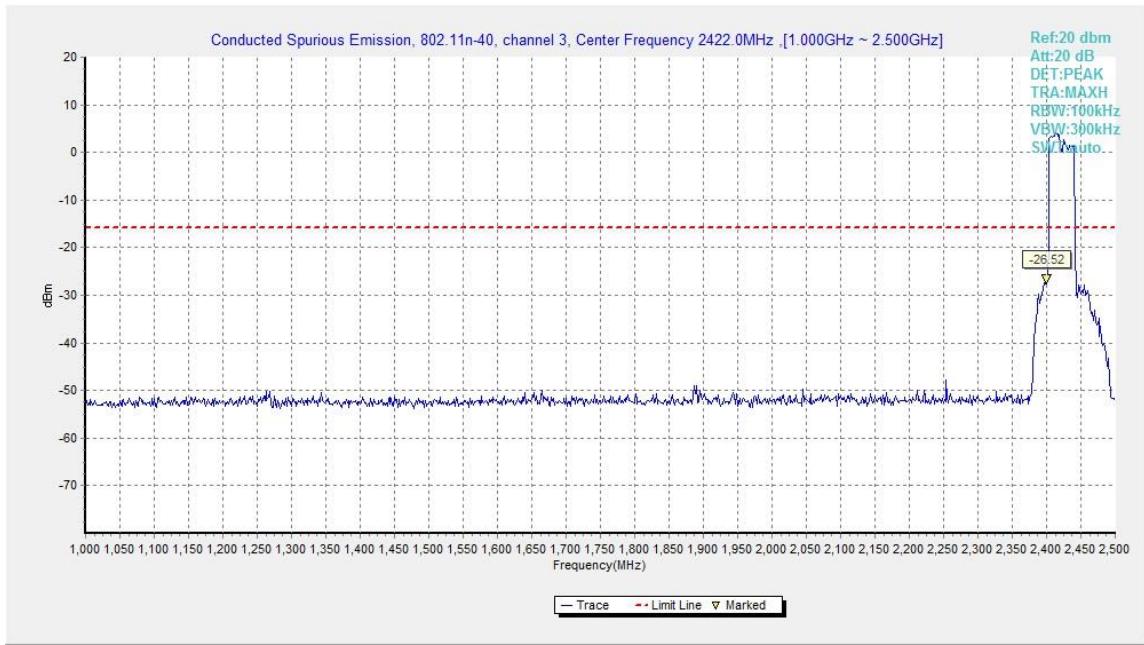


Fig.A.6.1.75 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 1 GHz-2.5 GHz)

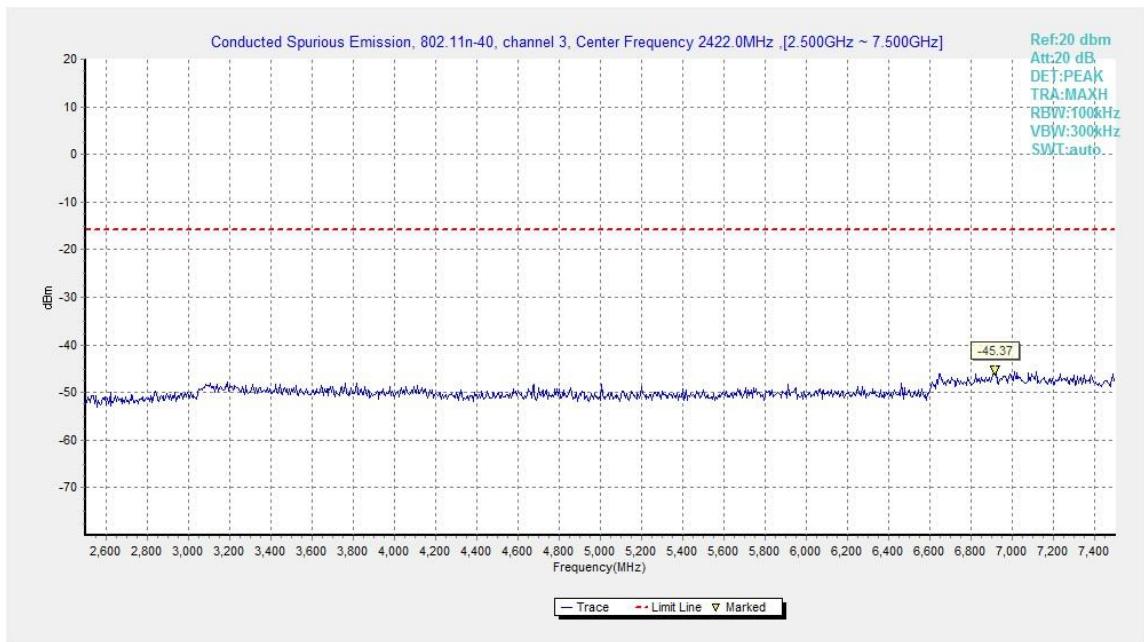


Fig.A.6.1.76 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 2.5 GHz-7.5 GHz)

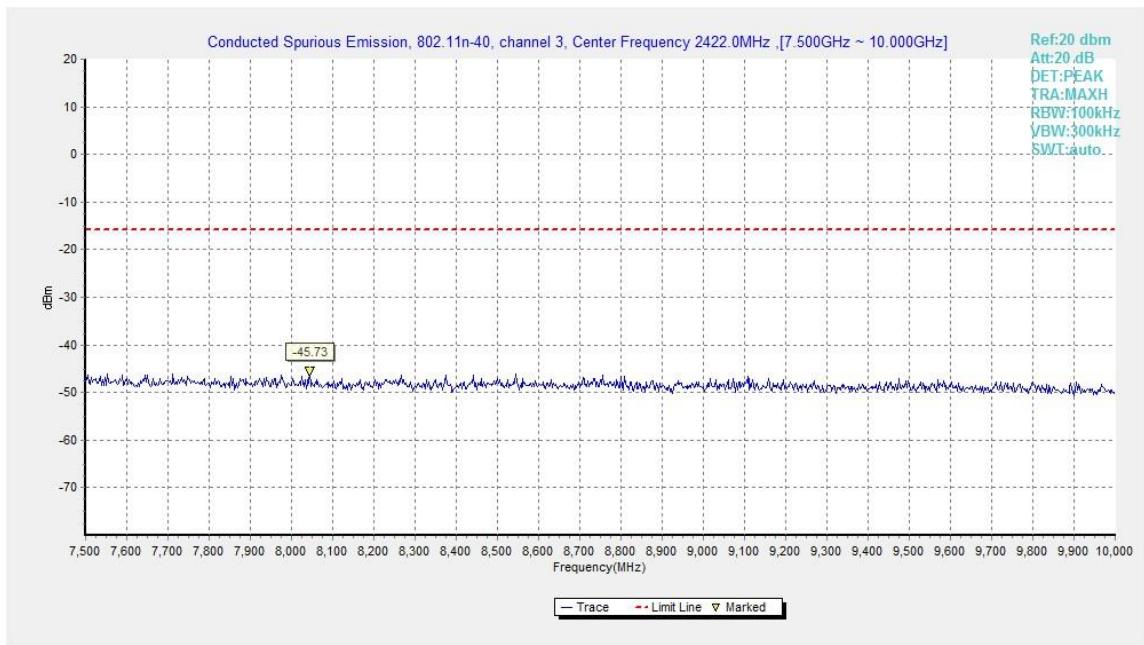


Fig.A.6.1.77 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 7.5 GHz-10 GHz)

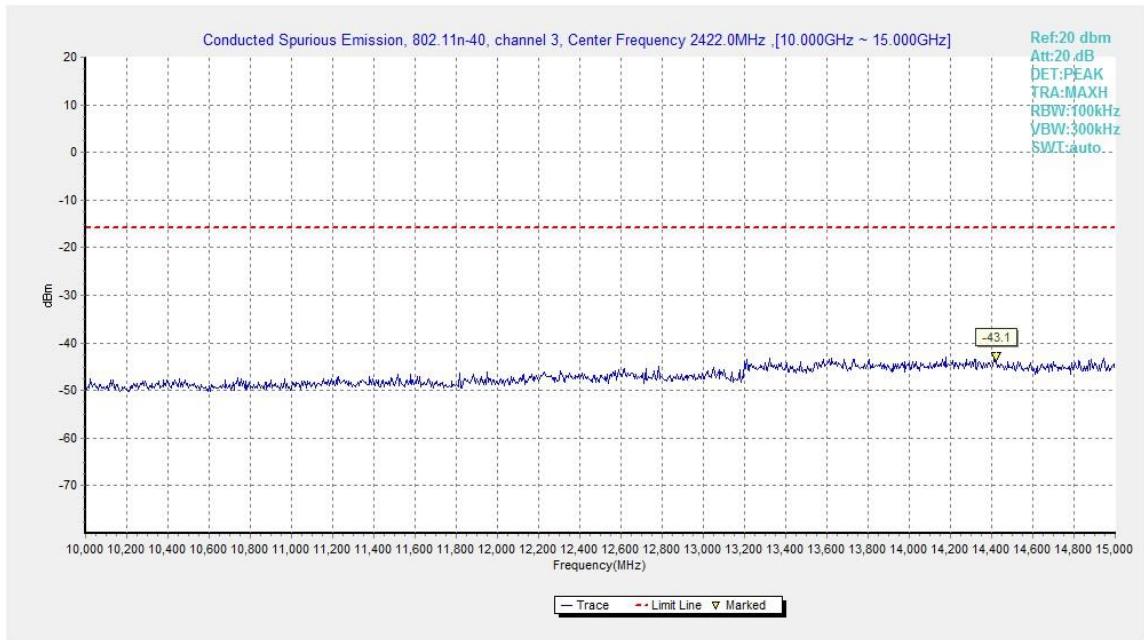


Fig.A.6.1.78 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 10 GHz-15 GHz)

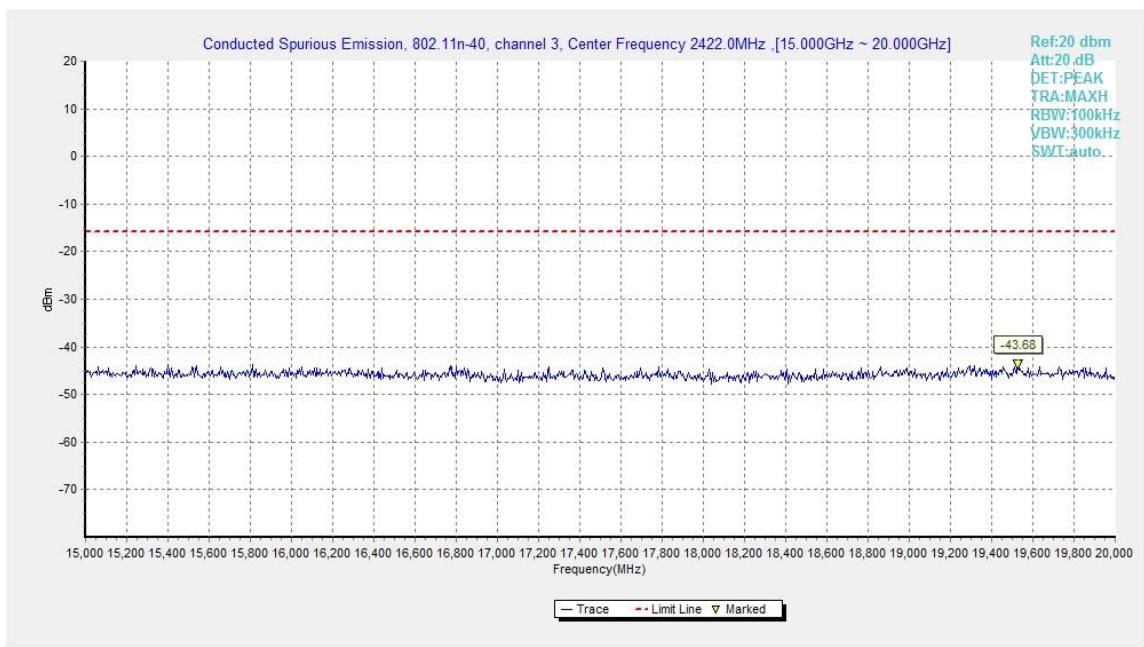


Fig.A.6.1.79 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 15 GHz-20 GHz)

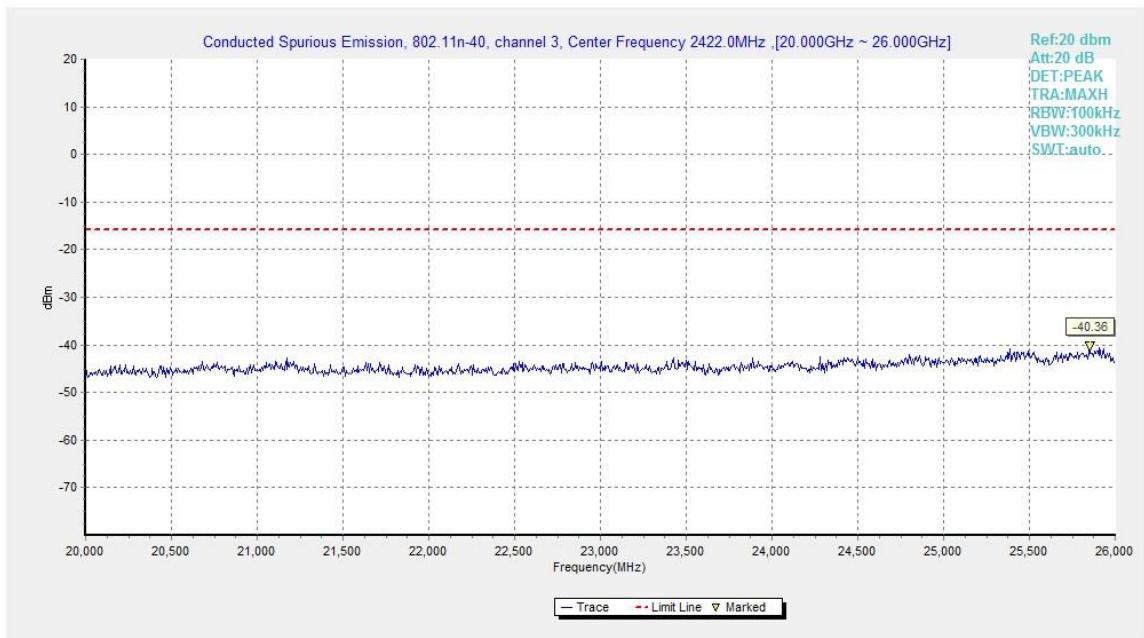


Fig.A.6.1.80 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch3, 20 GHz-26 GHz)

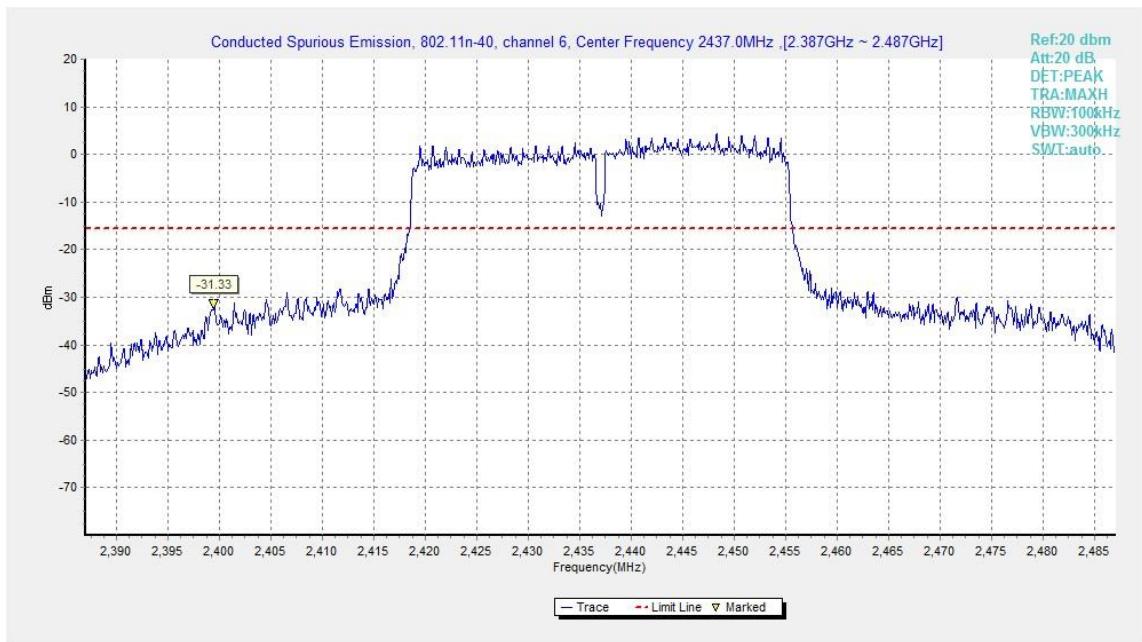


Fig.A.6.1.81 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, Center Frequency)

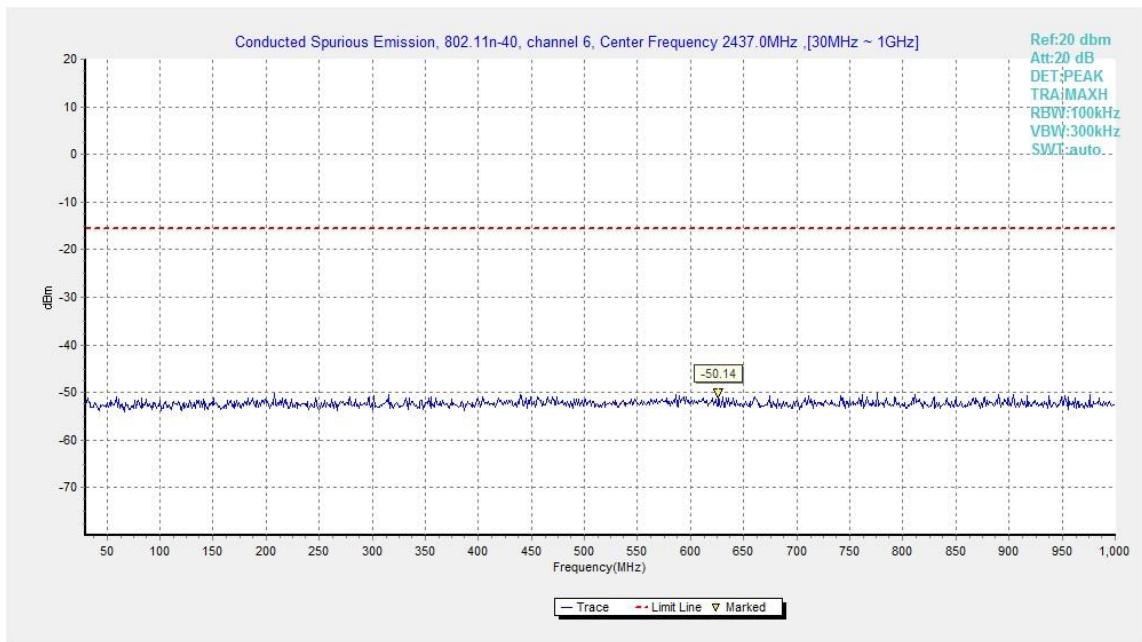


Fig.A.6.1.82 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 30 MHz-1 GHz)

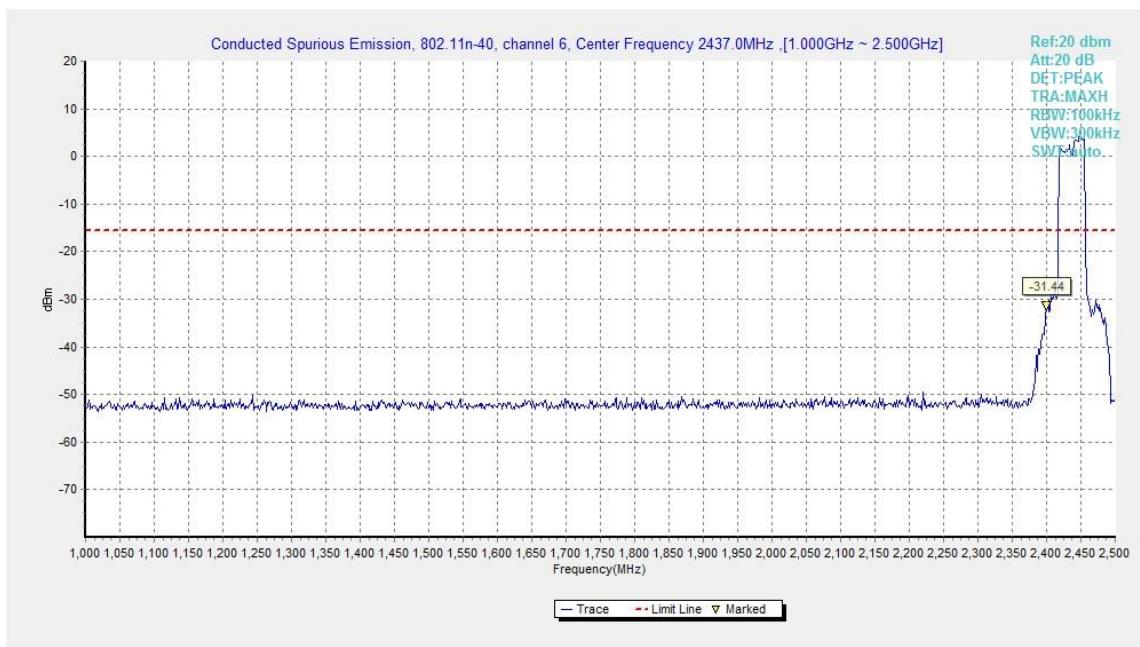


Fig.A.6.1.83 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 1 GHz-2.5 GHz)

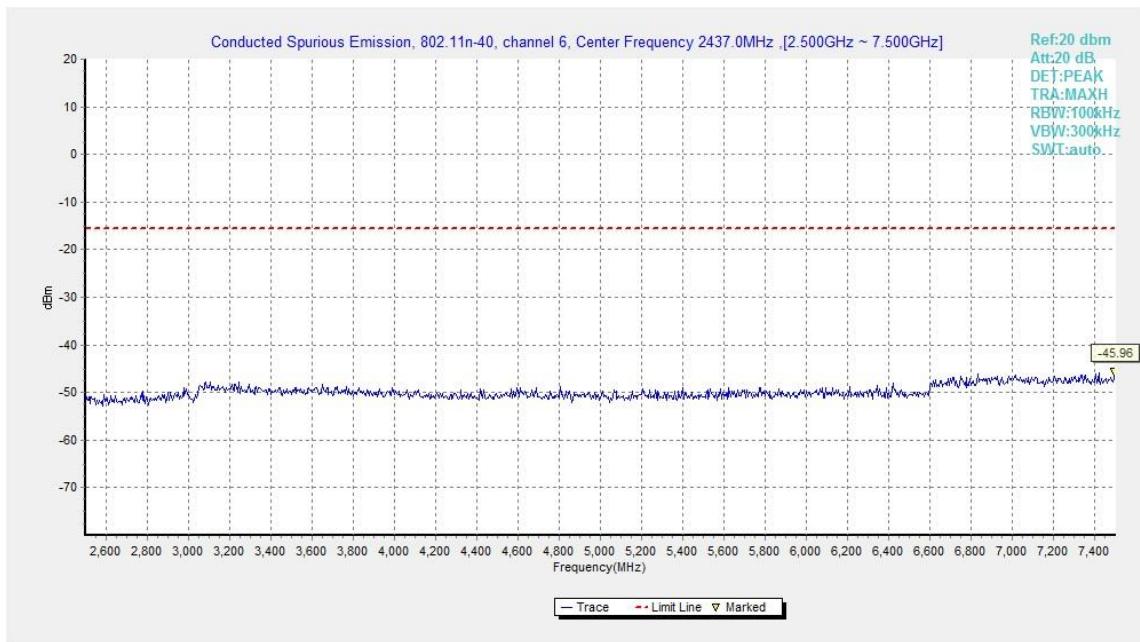


Fig.A.6.1.84 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 2.5 GHz-7.5 GHz)

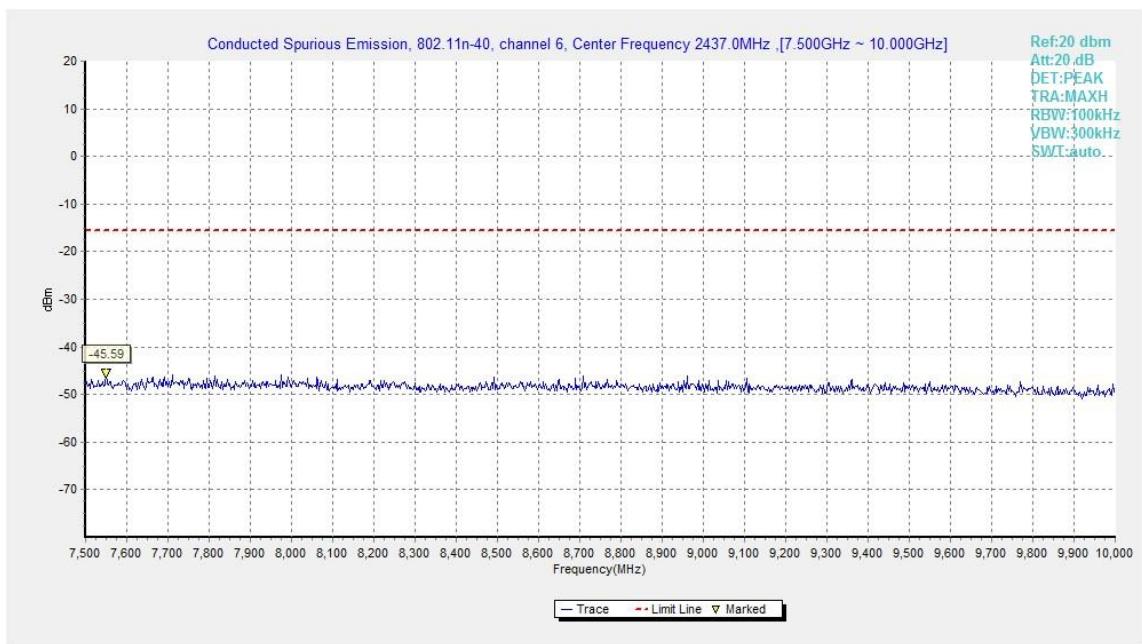


Fig.A.6.1.85 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 7.5 GHz-10 GHz)

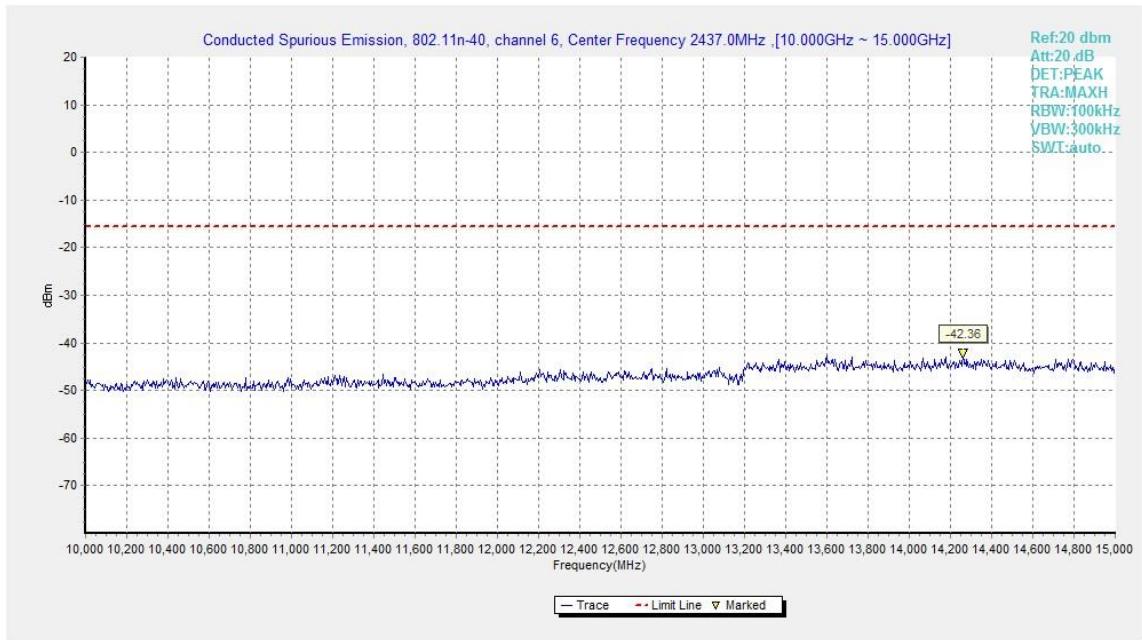


Fig.A.6.1.86 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 10 GHz-15 GHz)

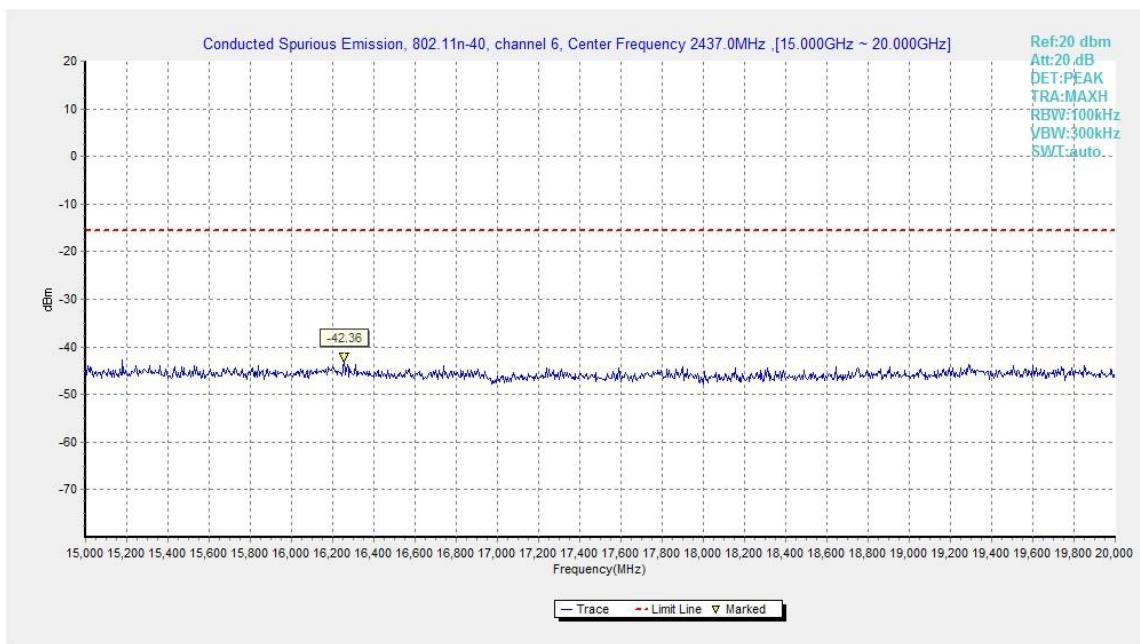


Fig.A.6.1.87 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 15 GHz-20 GHz)

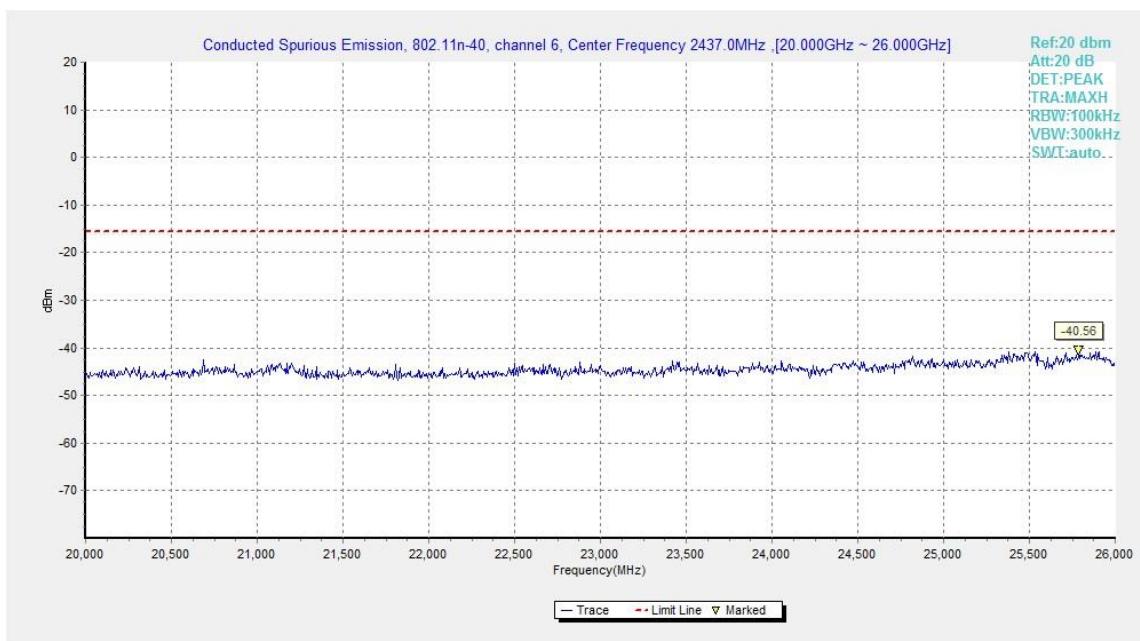


Fig.A.6.1.88 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch6, 20 GHz-26 GHz)

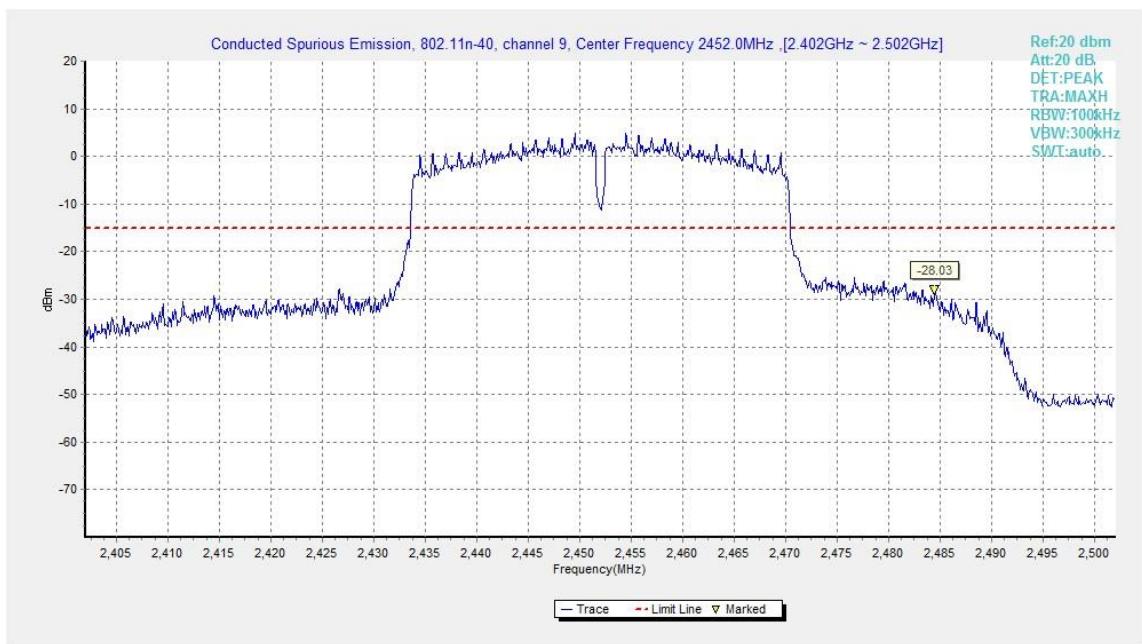


Fig.A.6.1.89 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, Center Frequency)

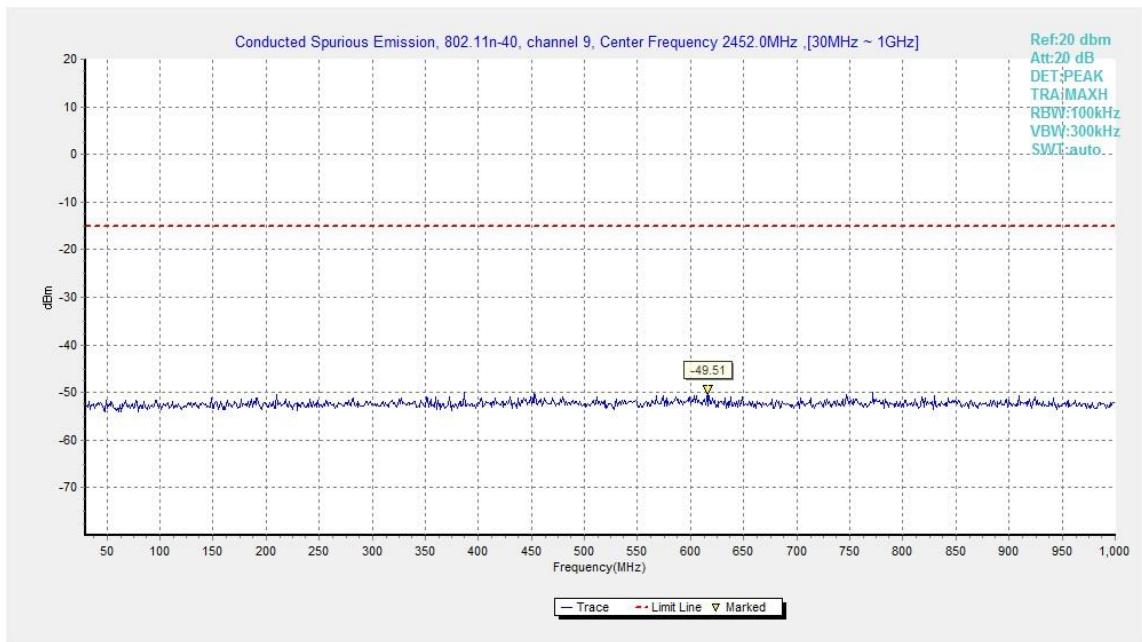


Fig.A.6.1.90 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 30 MHz-1 GHz)

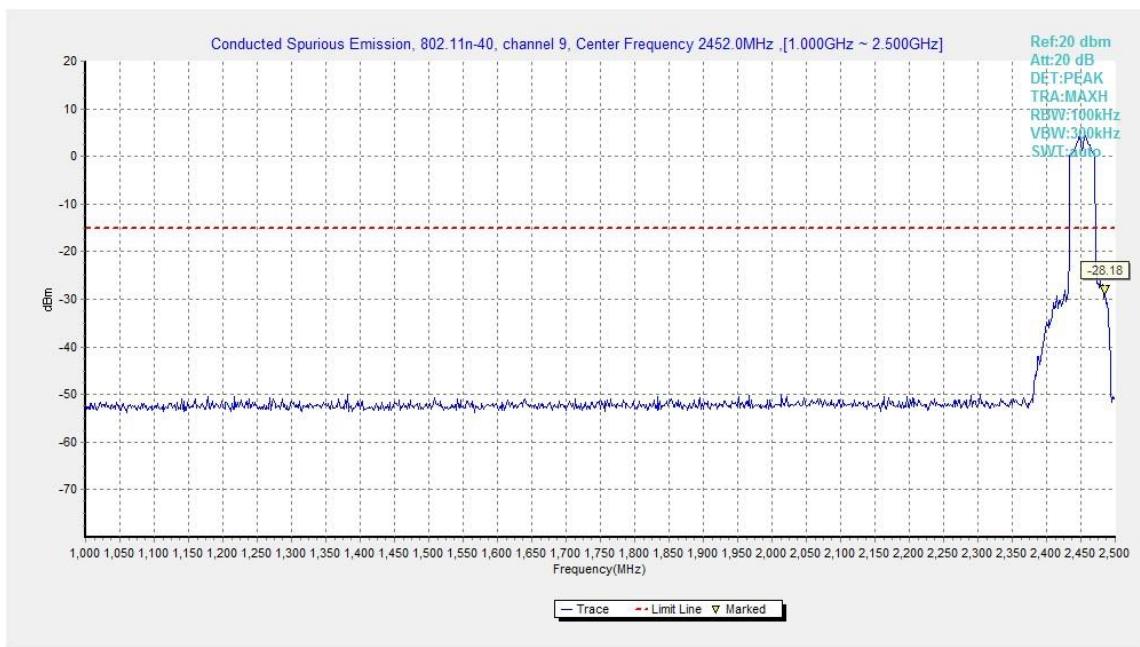


Fig.A.6.1.91 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 1 GHz-2.5 GHz)

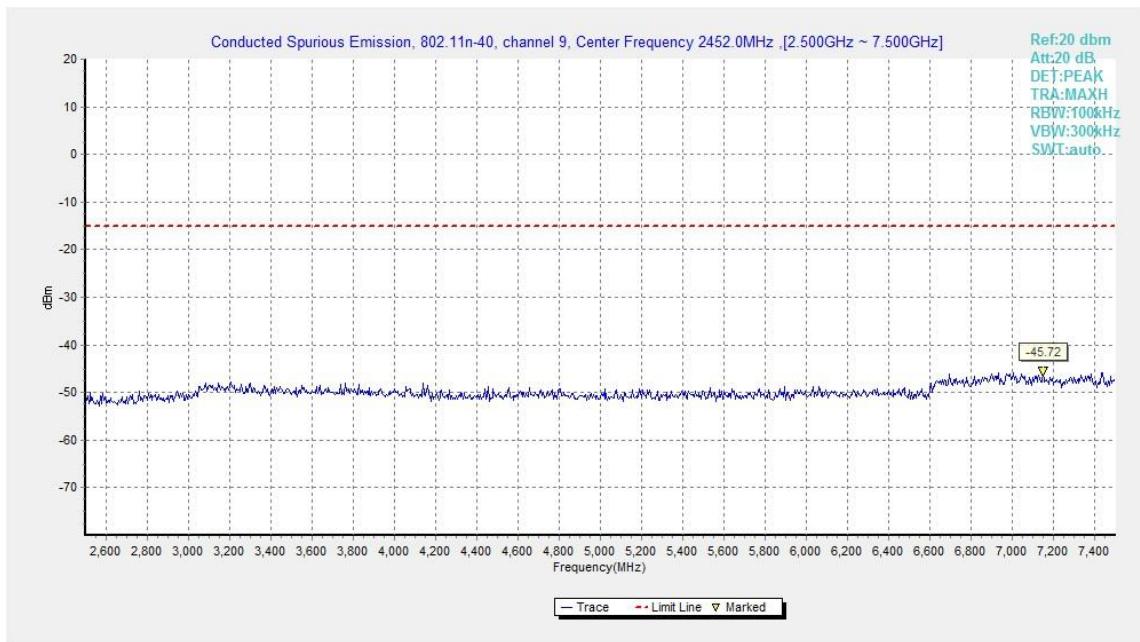


Fig.A.6.1.92 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 2.5 GHz-7.5 GHz)

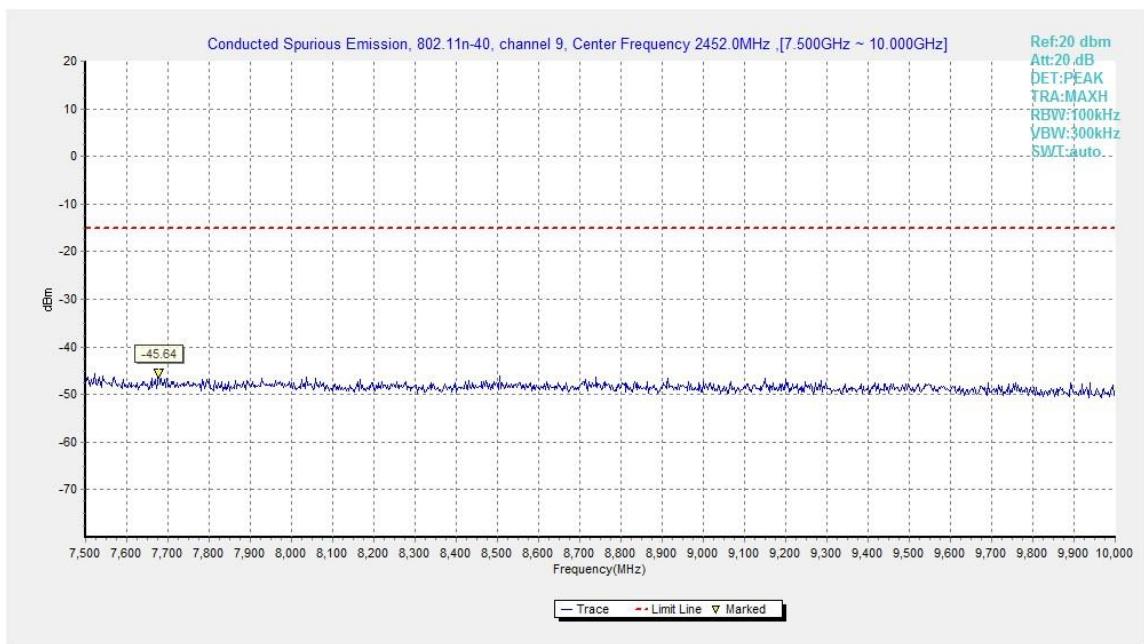


Fig.A.6.1.93 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 7.5 GHz-10 GHz)

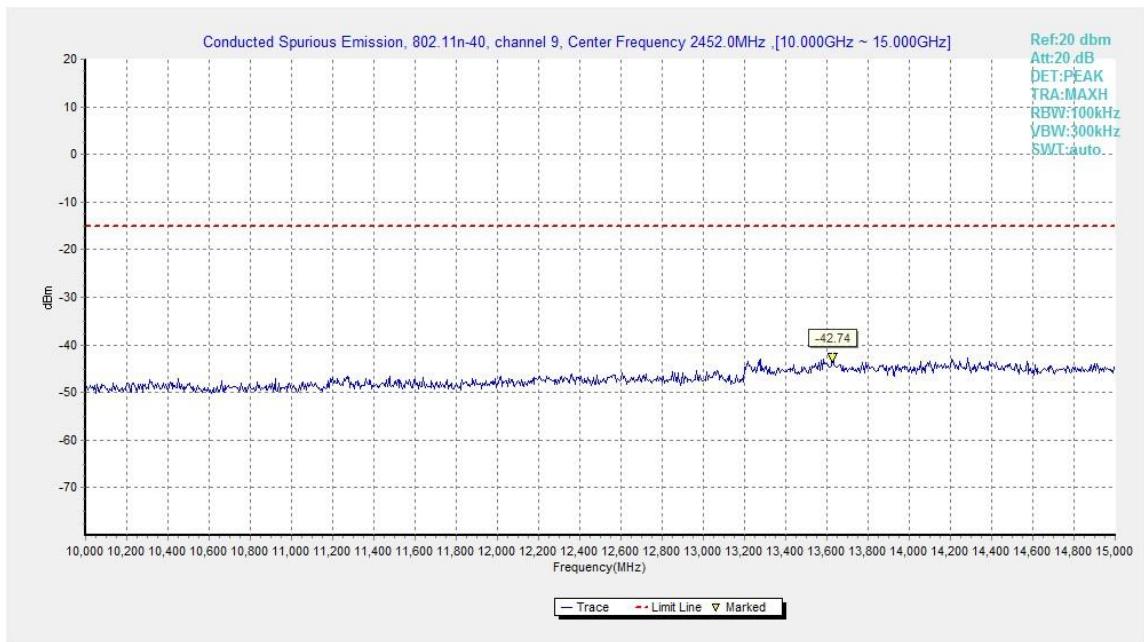


Fig.A.6.1.94 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 10 GHz-15 GHz)

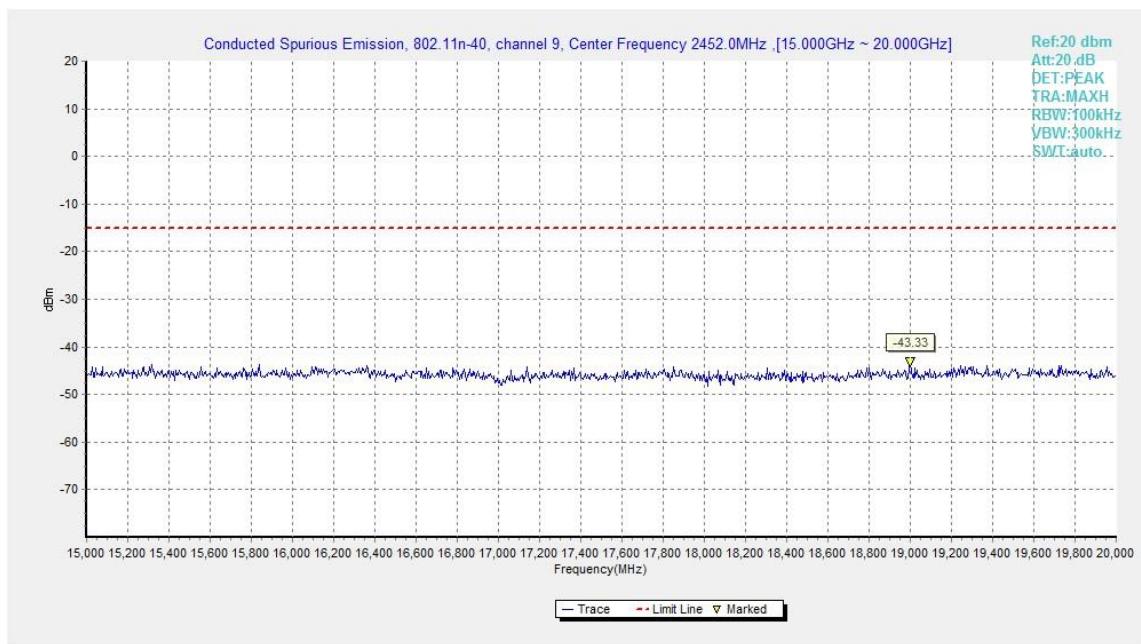


Fig.A.6.1.95 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 15 GHz-20 GHz)

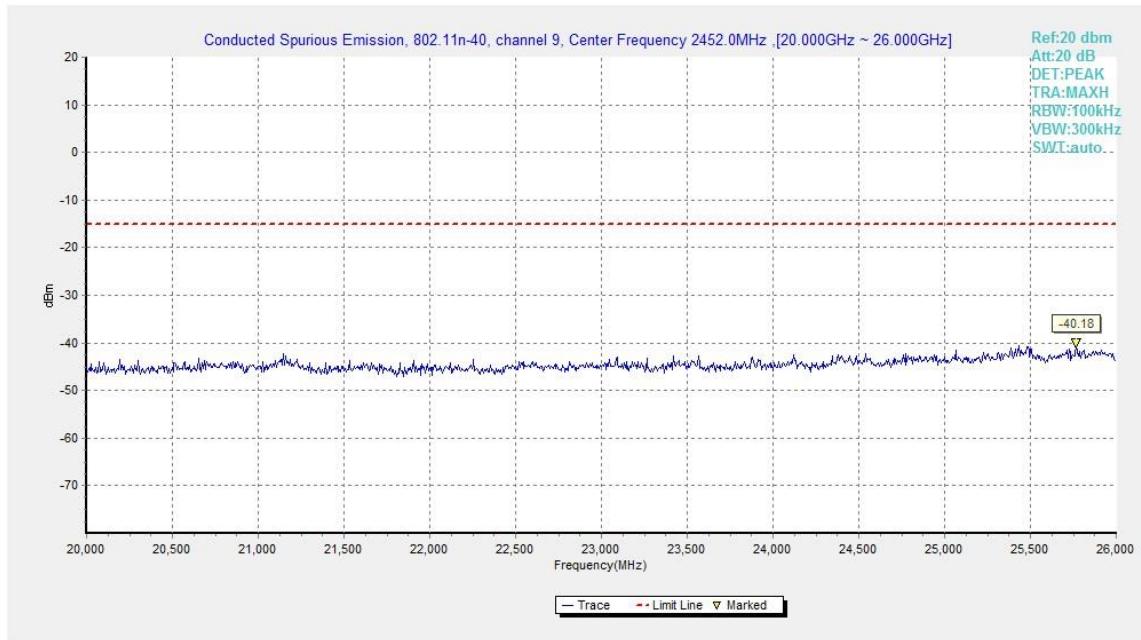


Fig.A.6.1.96 Transmitter Spurious Emission - Conducted (802.11n-HT40, Ch9, 20 GHz-26 GHz)

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(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/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

EUT ID: EUT3

Measurement Results:
802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.45GHz	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-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.45GHz	Fig.A.6.2.5	P
	Power	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	2.38GHz ~2.45GHz	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:

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

Average
802.11b

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P_{Mea} (dBuV/m)	Polarization
2389.875	44.0	-38.8	27.7	55.100	H
17829.000	44.9	-18.5	45.6	17.800	H
17905.500	44.8	-18.5	45.6	17.700	H
17917.000	44.8	-17.7	45.6	16.900	H
17951.000	44.8	-17.7	45.6	16.900	H
17921.000	44.8	-17.7	45.6	16.900	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17928.500	44.4	-17.7	45.6	16.500	H
17923.500	44.4	-17.7	45.6	16.500	H
17904.500	44.4	-18.5	45.6	17.300	H
17925.500	44.4	-17.7	45.6	16.500	H
17912.500	44.4	-18.5	45.6	17.300	H
17921.500	44.4	-17.7	45.6	16.500	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2383.600	42.6	-38.8	27.7	53.700	H
17915.500	44.8	-17.7	45.6	16.900	H
17912.000	44.8	-18.5	45.6	17.700	V
17921.000	44.6	-17.7	45.6	16.700	H
17910.000	44.6	-18.5	45.6	17.500	H
17925.000	44.5	-17.7	45.6	16.600	H

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.905	48.7	-38.8	27.7	59.800	H
17916.000	44.7	-17.7	45.6	16.800	H
17912.500	44.5	-18.5	45.6	17.400	V
17917.500	44.4	-17.7	45.6	16.500	H
17910.500	44.4	-18.5	45.6	17.300	H
17920.500	44.4	-17.7	45.6	16.500	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17924.000	44.7	-17.7	45.6	16.800	H
17919.500	44.6	-17.7	45.6	16.700	H
17914.500	44.6	-17.7	45.6	16.700	H
17918.000	44.6	-17.7	45.6	16.700	H
17931.000	44.5	-17.7	45.6	16.600	H
17926.500	44.5	-17.7	45.6	16.600	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.545	43.9	-38.9	27.7	55.100	H
17915.500	44.8	-17.7	45.6	16.900	H
17919.500	44.7	-17.7	45.6	16.800	H
17931.000	44.5	-17.7	45.6	16.600	H
17914.500	44.5	-17.7	45.6	16.600	H
17919.000	44.5	-17.7	45.6	16.600	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.740	48.2	-38.8	27.7	59.300	H
17933.500	44.6	-17.7	45.6	16.700	H
17914.000	44.5	-18.5	45.6	17.400	V
17916.000	44.5	-17.7	45.6	16.600	H
17896.000	44.4	-18.5	45.6	17.300	H
17912.500	44.4	-18.5	45.6	17.300	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17908.500	44.6	-18.5	45.6	17.500	H
17921.000	44.5	-17.7	45.6	16.600	H
17916.000	44.4	-17.7	45.6	16.500	V
17937.000	44.4	-17.7	45.6	16.500	H
17920.000	44.4	-17.7	45.6	16.500	H
17917.500	44.4	-17.7	45.6	16.500	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.850	39.2	-38.9	27.7	50.400	H
17930.500	44.6	-17.7	45.6	16.700	H
17919.500	44.5	-17.7	45.6	16.600	H
17915.500	44.5	-17.7	45.6	16.600	H
17920.000	44.5	-17.7	45.6	16.600	H
17935.000	44.4	-17.7	45.6	16.500	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.435	47.0	-38.8	27.7	58.100	H
17936.000	44.6	-17.7	45.6	16.700	H
17923.500	44.6	-17.7	45.6	16.700	H
17912.000	44.6	-18.5	45.6	17.500	H
17919.500	44.6	-17.7	45.6	16.700	H
17914.000	44.5	-18.5	45.6	17.400	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17909.000	44.8	-18.5	45.6	17.700	H
17938.000	44.6	-17.7	45.6	16.700	H
17925.500	44.6	-17.7	45.6	16.700	H
17919.000	44.6	-17.7	45.6	16.700	H
17916.000	44.5	-17.7	45.6	16.600	H
17925.000	44.5	-17.7	45.6	16.600	H

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2484.435	47.7	-38.9	27.7	58.900	H
17917.000	44.7	-17.7	45.6	16.800	H
17931.500	44.6	-17.7	45.6	16.700	H
17913.500	44.5	-18.5	45.6	17.400	H
17915.500	44.5	-17.7	45.6	16.600	H
17906.000	44.4	-18.5	45.6	17.300	H

Peak**802.11b**

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.675	62.3	-38.8	27.7	73.400	H
17829.000	56.5	-18.5	45.6	29.400	H
17905.500	56.4	-18.5	45.6	29.300	V
17917.000	56.3	-17.7	45.6	28.400	H
17951.000	56.0	-17.7	45.6	28.100	H
17921.000	55.9	-17.7	45.6	28.000	V

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17869.000	56.8	-18.5	45.6	29.700	H
17923.500	56.5	-17.7	45.6	28.600	H
17936.000	56.3	-17.7	45.6	28.400	V
17905.000	56.0	-18.5	45.6	28.900	H
17819.000	55.9	-18.5	45.6	28.800	H
17938.500	55.8	-17.7	45.6	27.900	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2383.555	58.9	-38.8	27.7	70.000	H
17939.000	56.8	-17.7	45.6	28.900	H
17915.500	56.6	-17.7	45.6	28.700	V
17914.000	56.0	-18.5	45.6	28.900	H
17979.000	55.9	-17.7	45.6	28.000	H
17797.500	55.8	-18.5	45.6	28.700	H

802.11g

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.375	64.5	-38.8	27.7	75.600	H
17959.500	55.9	-17.7	45.6	28.000	H
17965.500	55.9	-17.7	45.6	28.000	V
17914.500	55.8	-17.7	45.6	27.900	H
17917.500	55.7	-17.7	45.6	27.800	H
17899.000	55.4	-18.5	45.6	28.300	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17908.500	56.0	-18.5	45.6	28.900	H
17874.500	55.9	-18.5	45.6	28.800	H
17907.500	55.9	-18.5	45.6	28.800	H
17862.500	55.8	-18.5	45.6	28.700	H
17917.500	55.8	-17.7	45.6	27.900	H
17933.500	55.7	-17.7	45.6	27.800	H

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.670	62.2	-38.9	27.7	73.400	H
17875.500	56.3	-18.5	45.6	29.200	H
17847.000	55.8	-18.5	45.6	28.700	H
17891.000	55.7	-18.5	45.6	28.600	H
17920.500	55.7	-17.7	45.6	27.800	H
17873.500	55.7	-18.5	45.6	28.600	H

802.11n-HT20

Ch1

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2389.220	66.6	-38.8	27.7	77.700	H
17938.500	56.9	-17.7	45.6	29.000	H
17961.000	56.1	-17.7	45.6	28.200	V
17910.000	55.9	-18.5	45.6	28.800	H
17912.500	55.9	-18.5	45.6	28.800	H
17867.500	55.8	-18.5	45.6	28.700	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17896.500	55.9	-18.5	45.6	28.800	H
17843.000	55.9	-18.5	45.6	28.800	H
17894.000	55.7	-18.5	45.6	28.600	H
17910.500	55.5	-18.5	45.6	28.400	H
17947.000	55.5	-17.7	45.6	27.600	H
17916.500	55.5	-17.7	45.6	27.600	V

Ch11

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2483.620	54.6	-38.9	27.7	65.800	H
17890.000	56.9	-18.5	45.6	29.800	H
17950.000	56.2	-17.7	45.6	28.300	V
17976.500	56.2	-17.7	45.6	28.300	H
17918.000	56.0	-17.7	45.6	28.100	H
17914.000	55.8	-18.5	45.6	28.700	H

802.11n-HT40

Ch3

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
2388.750	58.7	-38.8	27.7	69.800	H
17921.500	56.1	-17.7	45.6	28.200	H
17887.500	56.1	-18.5	45.6	29.000	H
17941.500	55.6	-17.7	45.6	27.700	H
17923.000	55.5	-17.7	45.6	27.600	H
17953.000	55.5	-17.7	45.6	27.600	H

Ch6

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
17944.000	56.0	-17.7	45.6	28.100	H
17893.500	55.9	-18.5	45.6	28.800	H
17906.500	55.9	-18.5	45.6	28.800	H
17932.000	55.8	-17.7	45.6	27.900	H
17849.000	55.8	-18.5	45.6	28.700	H
17928.500	55.7	-17.7	45.6	27.800	H

Ch9

Frequency(MHz)	Result (dBuV/m)	Cable Loss(dB)	Antenna Factor	P _{Mea} (dBuV/m)	Polarization
24839.100	66.8	-43.4	45.8	64.363	H
17874.500	56.4	-18.5	45.6	29.300	H
17950.000	56.2	-17.7	45.6	28.300	H
17913.500	56.1	-18.5	45.6	29.000	H
17909.500	55.9	-18.5	45.6	28.800	H
17908.500	55.6	-18.5	45.6	28.500	H

Sample calculation: 802.11n 40MHz CH9-Peak, 24839.100MHz

 Peak ERP(dBm) = P_{Mea}(64.363 dBuV/m) + Cable Loss(-43.4) + Antenna Factor(45.8) = 66.8 dBuV/m

Test graphs as below:

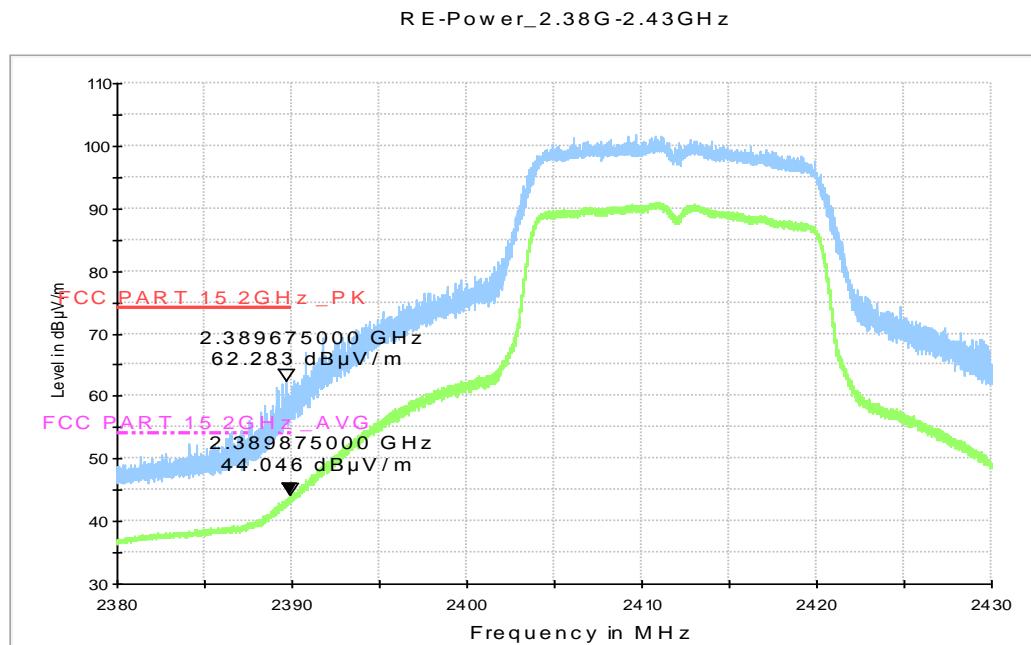


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.45GHz

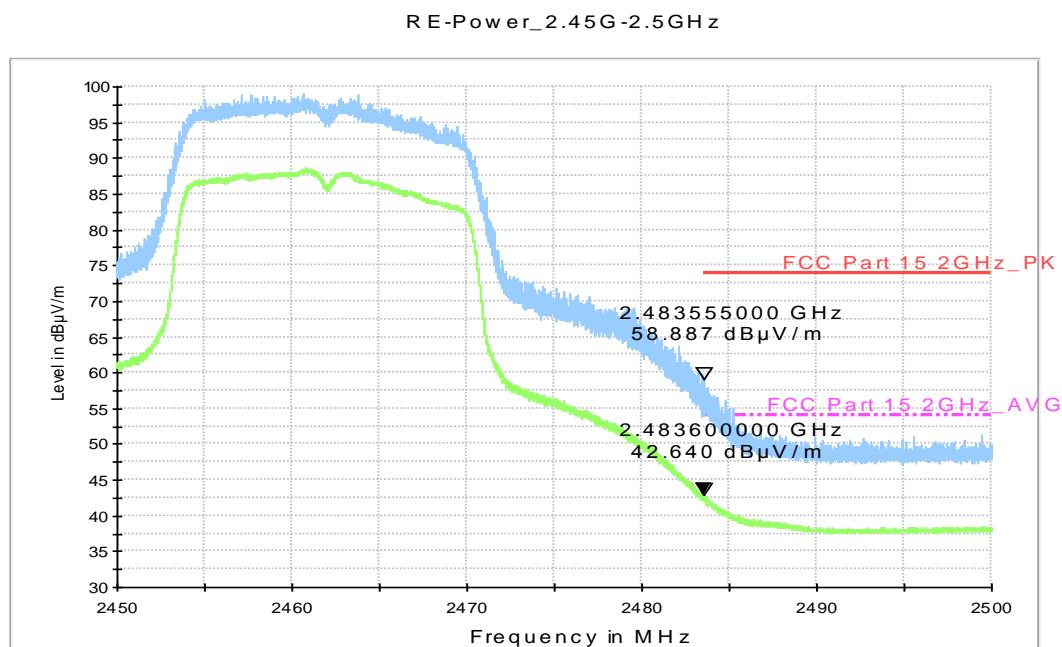


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

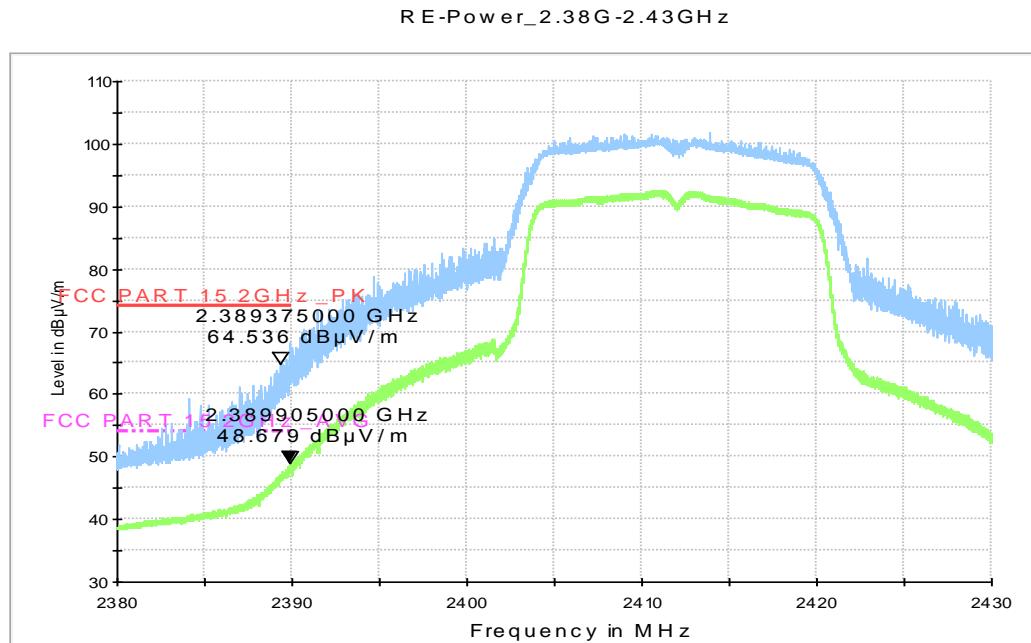


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.45GHz

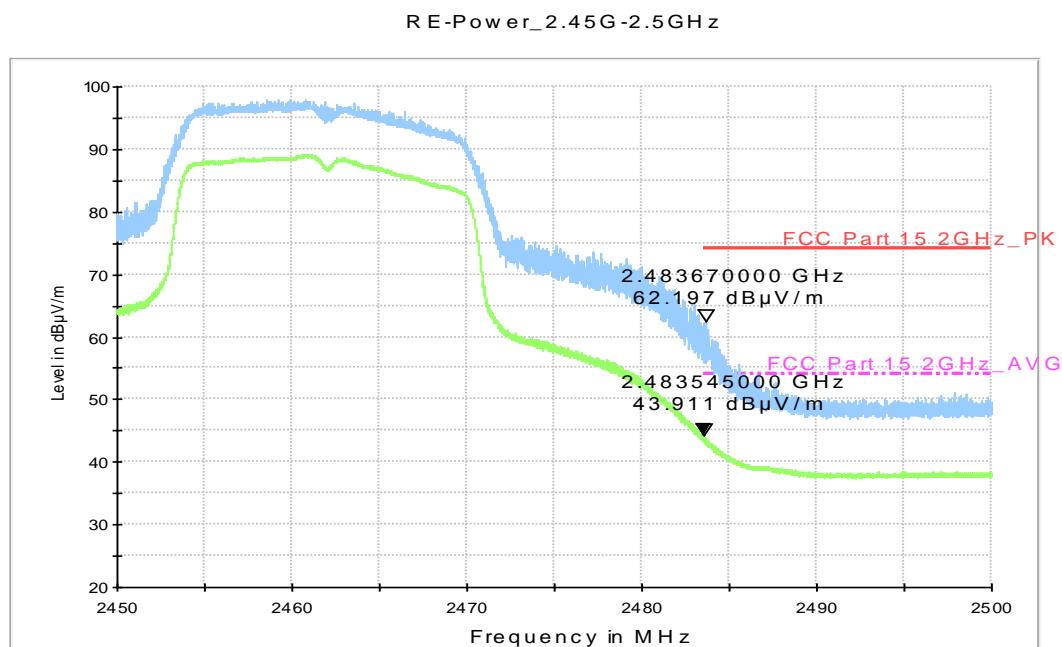


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

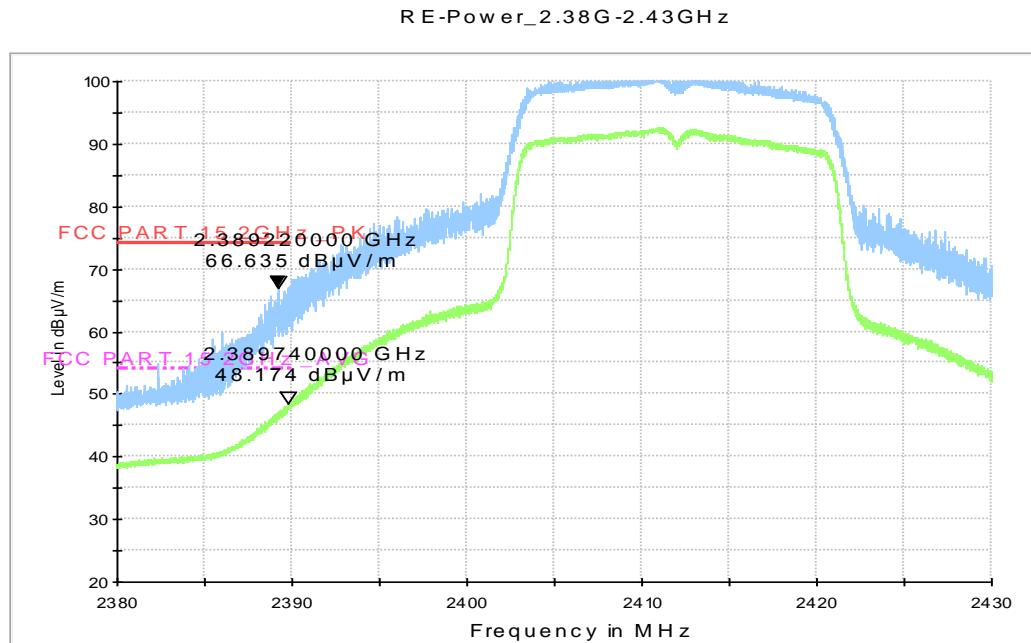


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

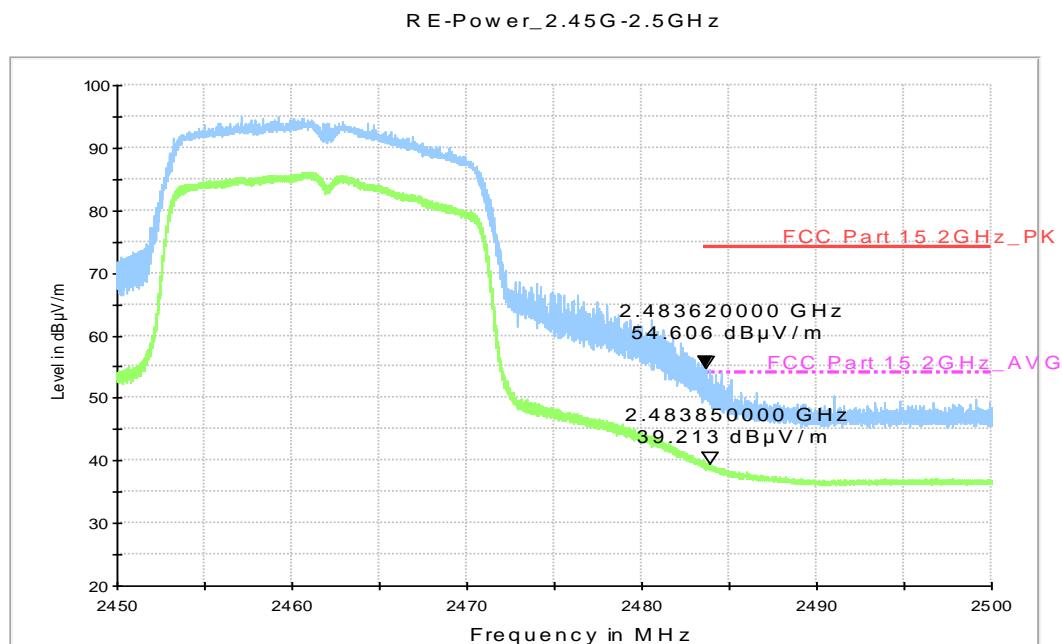


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

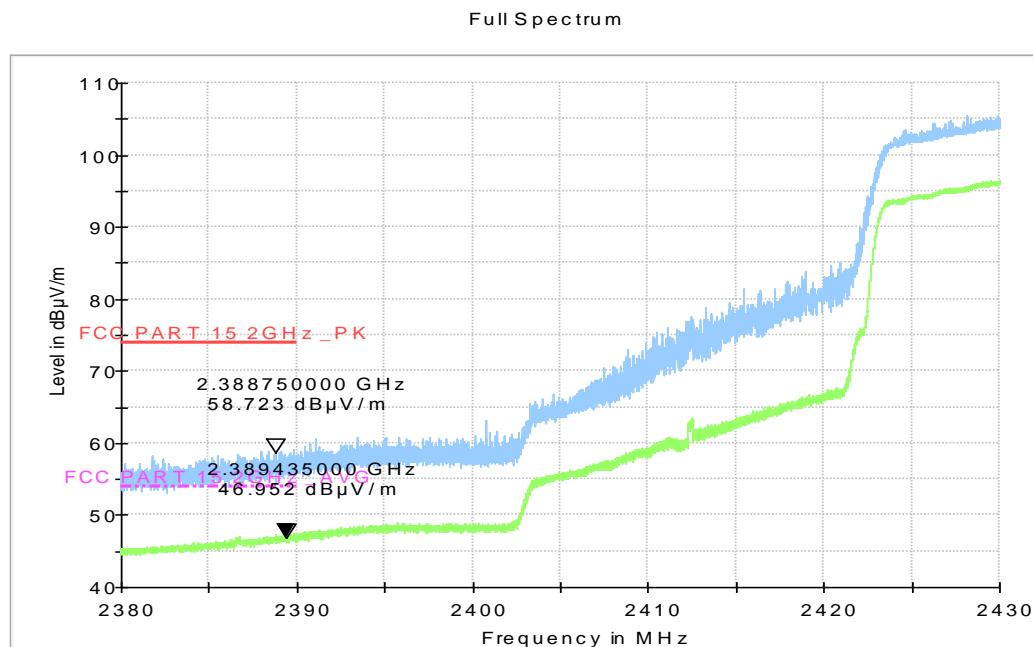


Fig.A.6.2.7 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch3, 2.38 GHz - 2.45GHz

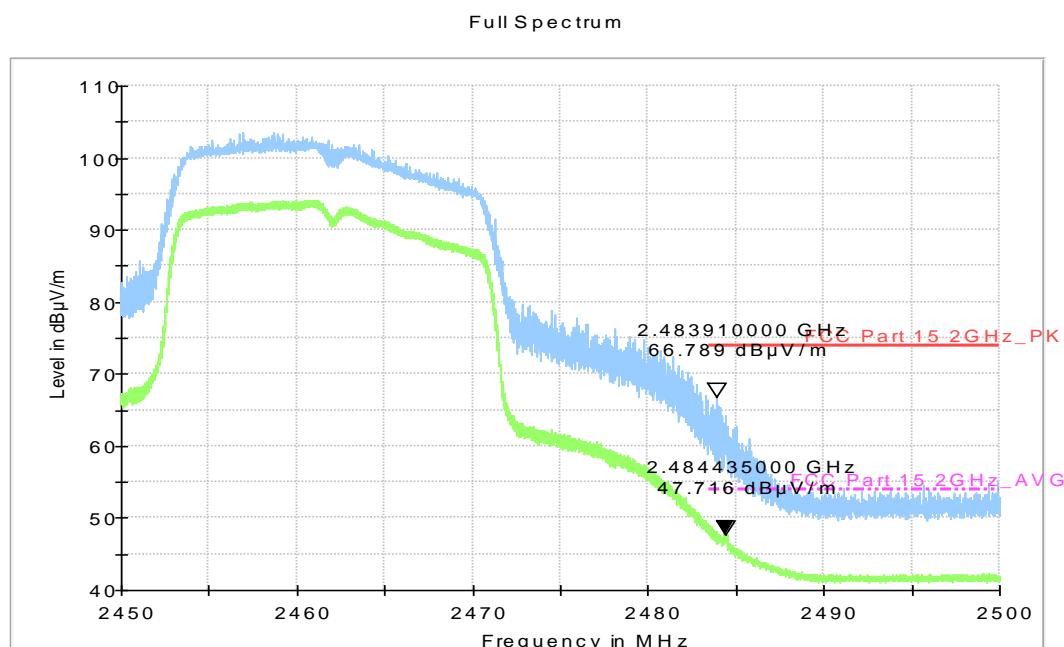


Fig.A.6.2.8 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT40, ch9, 2.45 GHz - 2.50GHz

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.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:

EUT ID : EUT3

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.

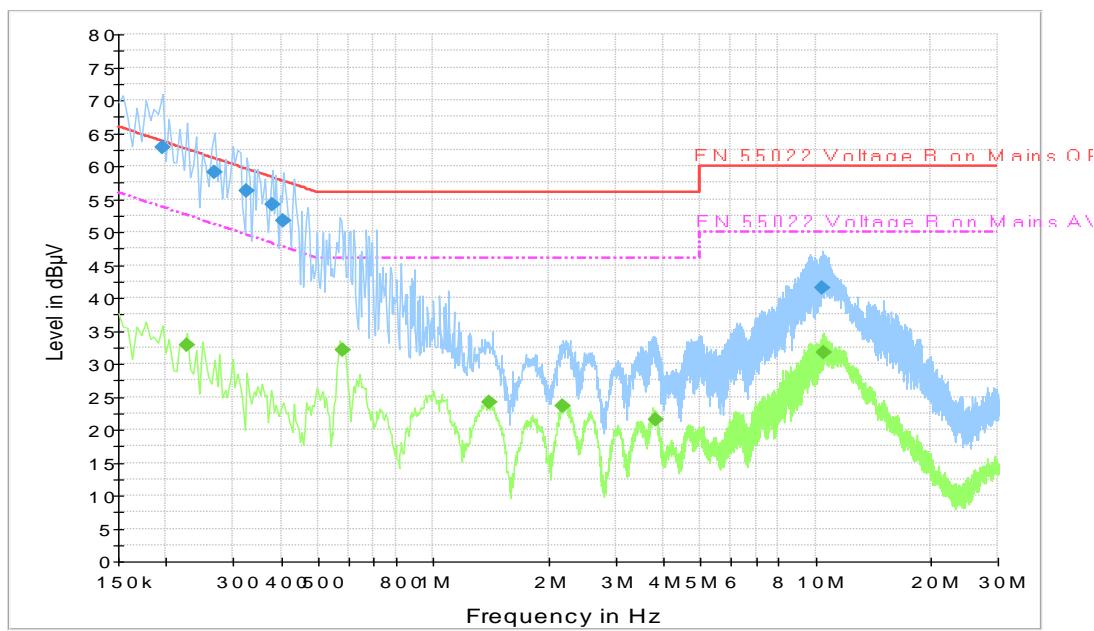
WLAN (Average Limit)

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

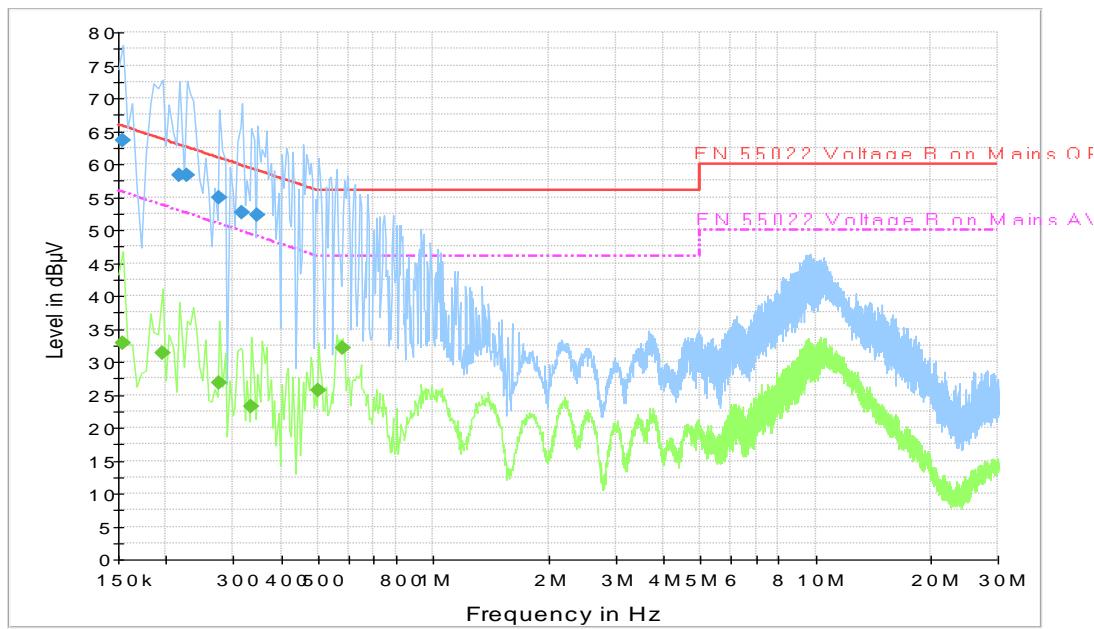
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dB μ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.195000	62.8	GND	N	19.8	1.0	63.8
0.267000	59.0	GND	L1	19.8	2.2	61.2
0.325500	56.1	GND	N	19.8	3.4	59.6
0.379500	54.2	GND	L1	19.9	4.1	58.3
0.406500	51.7	GND	N	19.9	6.0	57.7
10.432500	41.6	GND	L1	19.7	18.4	60.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.226500	32.8	GND	N	19.8	19.8	52.6
0.582000	32.1	GND	N	19.9	13.9	46.0
1.396500	24.1	GND	N	19.7	21.9	46.0
2.188500	23.6	GND	N	19.3	22.4	46.0
3.813000	21.5	GND	N	19.5	24.5	46.0
10.482000	31.7	GND	L1	19.7	18.3	50.0


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 (dB μ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.154500	63.5	GND	L1	20.1	2.2	65.8
0.217500	58.4	GND	L1	19.8	4.6	62.9
0.226500	58.3	GND	L1	19.8	4.3	62.6
0.276000	55.0	GND	L1	19.8	6.0	60.9
0.316500	52.6	GND	N	19.8	7.2	59.8
0.348000	52.3	GND	L1	19.9	6.7	59.0

Final Result 2

Frequency (MHz)	Average (dB μ V)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dB μ V)
0.154500	32.8	GND	N	20.0	22.9	55.8
0.195000	31.3	GND	L1	19.8	22.6	53.8
0.276000	26.7	GND	L1	19.8	24.2	50.9
0.334500	23.1	GND	L1	19.9	26.2	49.3
0.501000	25.7	GND	N	19.9	20.3	46.0
0.577500	32.2	GND	N	19.9	13.8	46.0

*****END OF REPORT*****