

Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 1 GHz-2.5 GHz)

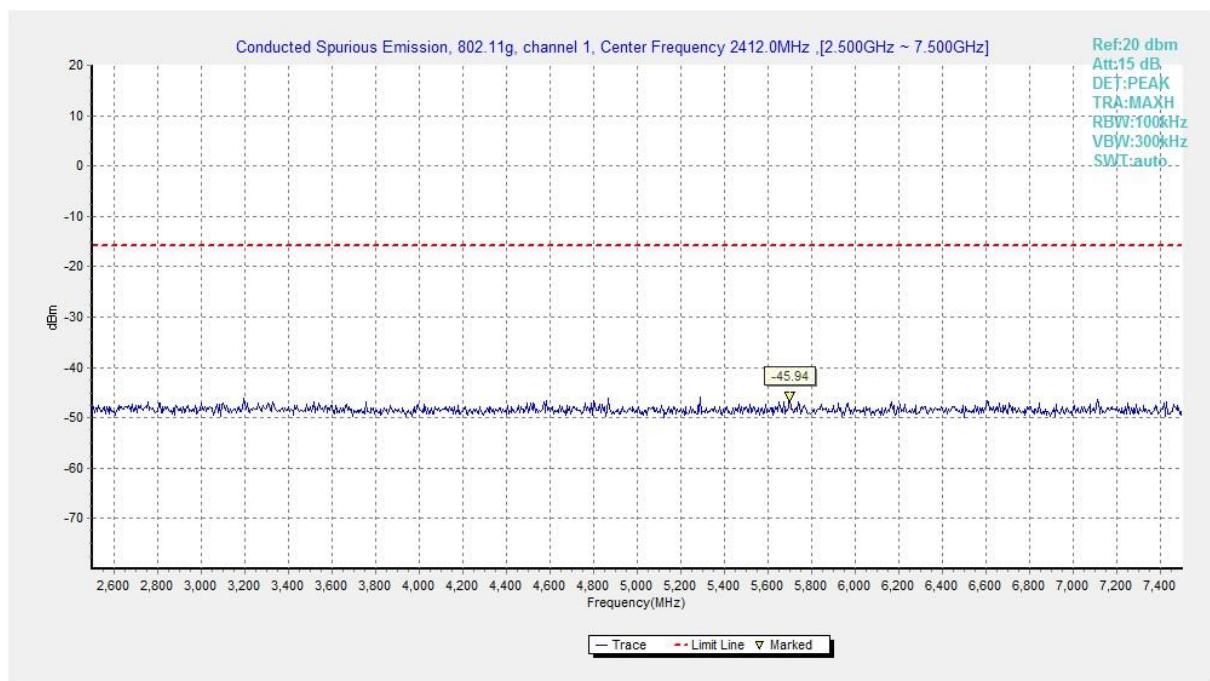


Fig.A.6.1.28 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 2.5 GHz-7.5 GHz)

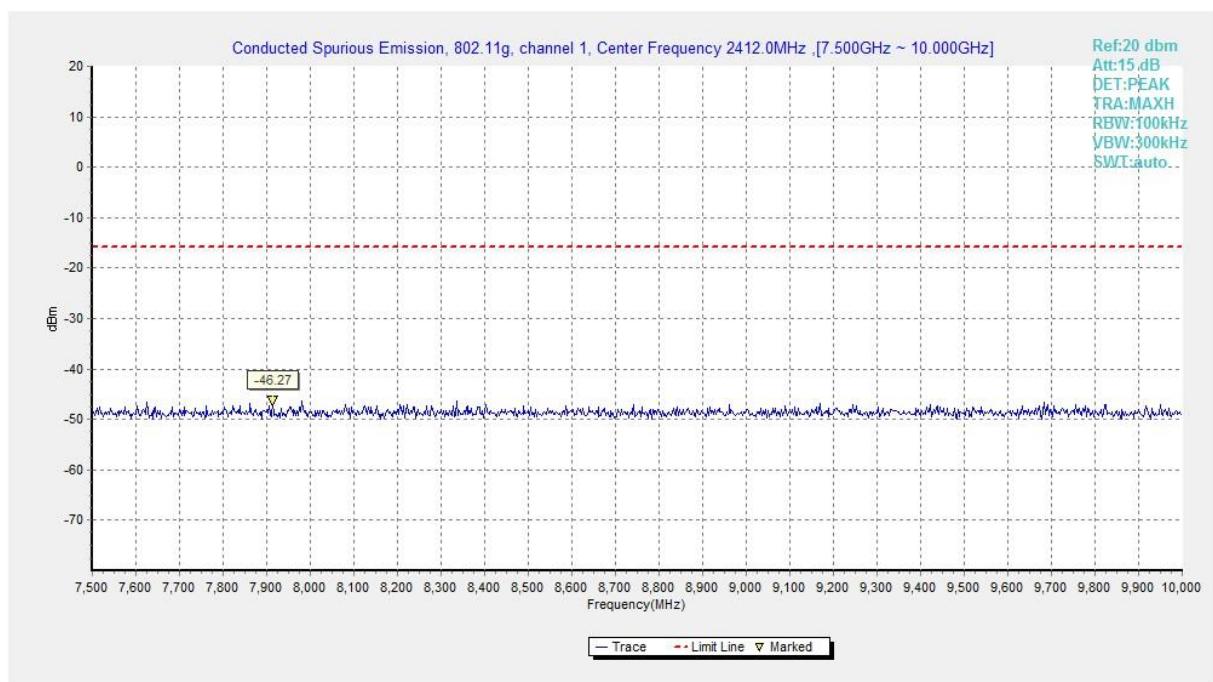


Fig.A.6.1.29 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 7.5 GHz-10 GHz)

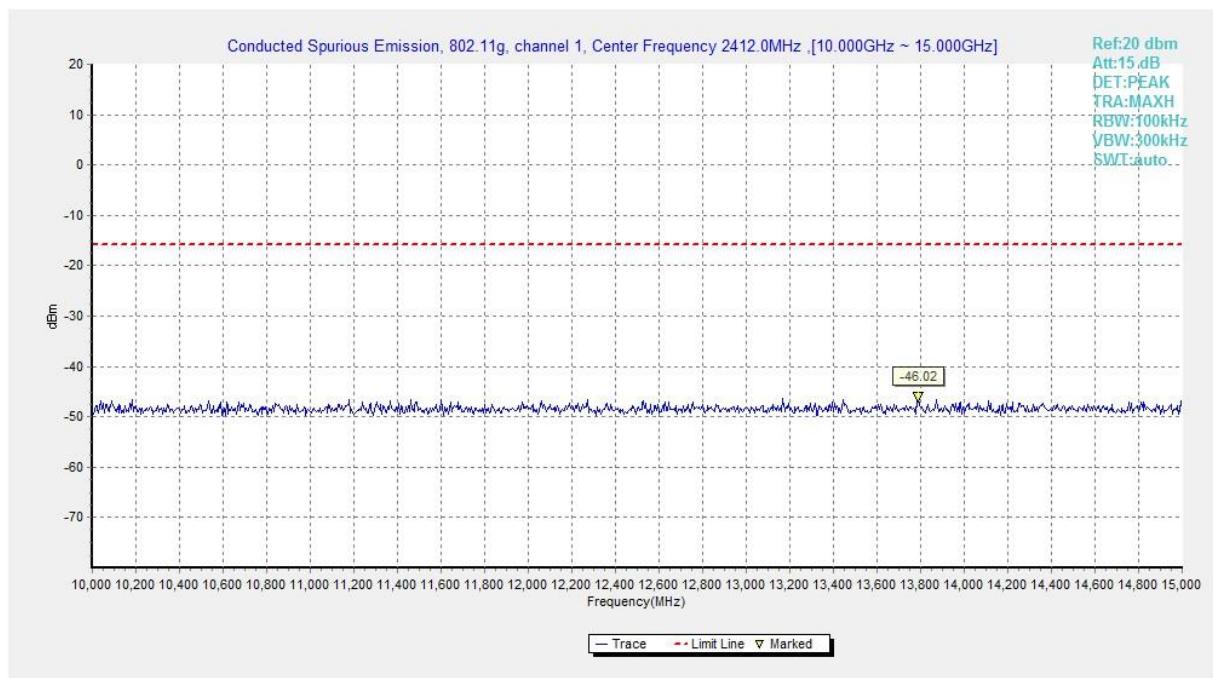


Fig.A.6.1.30 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 10 GHz-15 GHz)

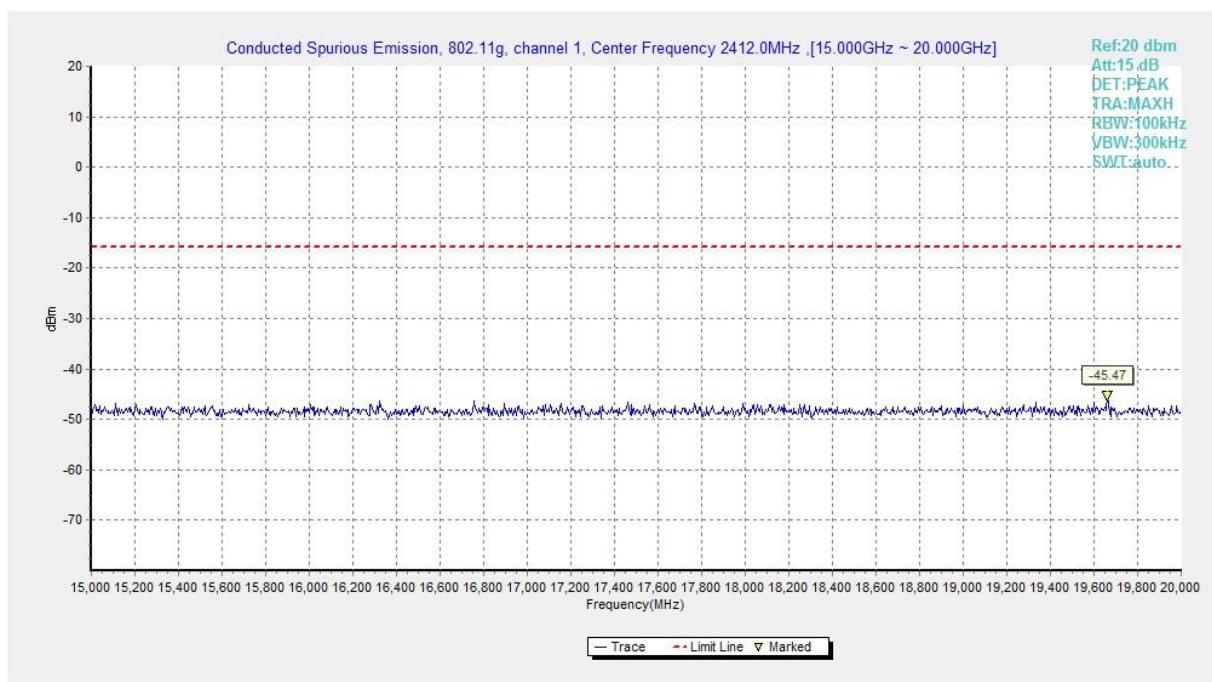


Fig.A.6.1.31 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 15 GHz-20 GHz)

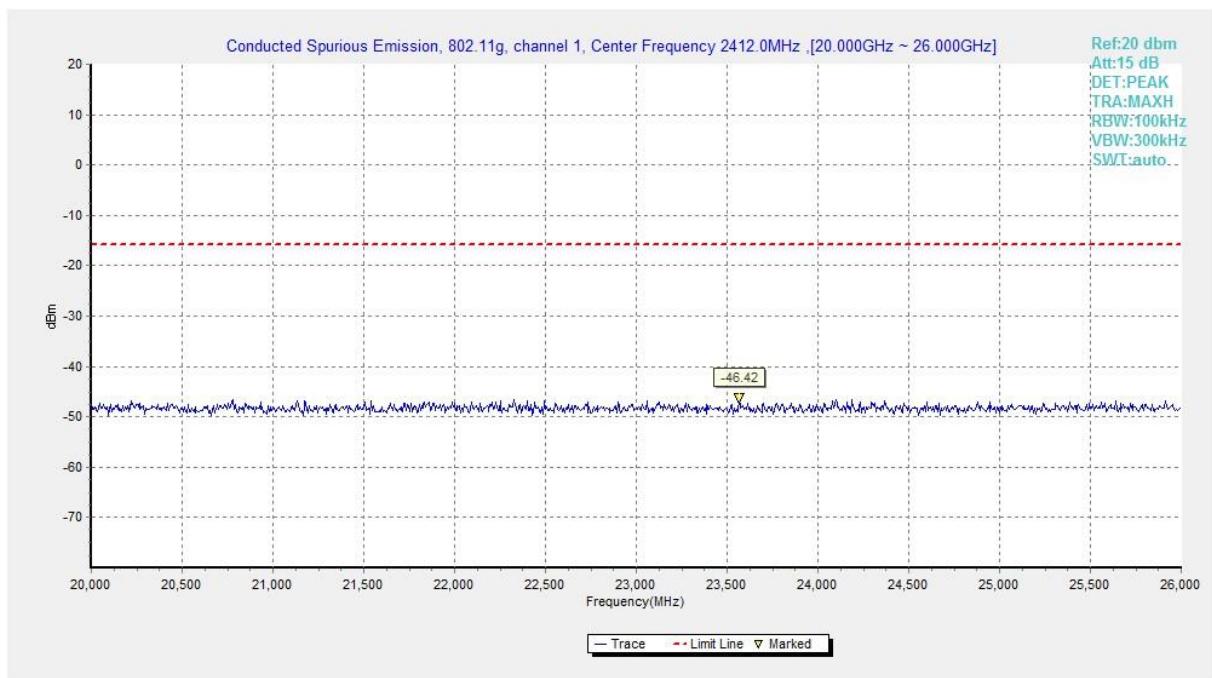


Fig.A.6.1.32 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 20 GHz-26 GHz)

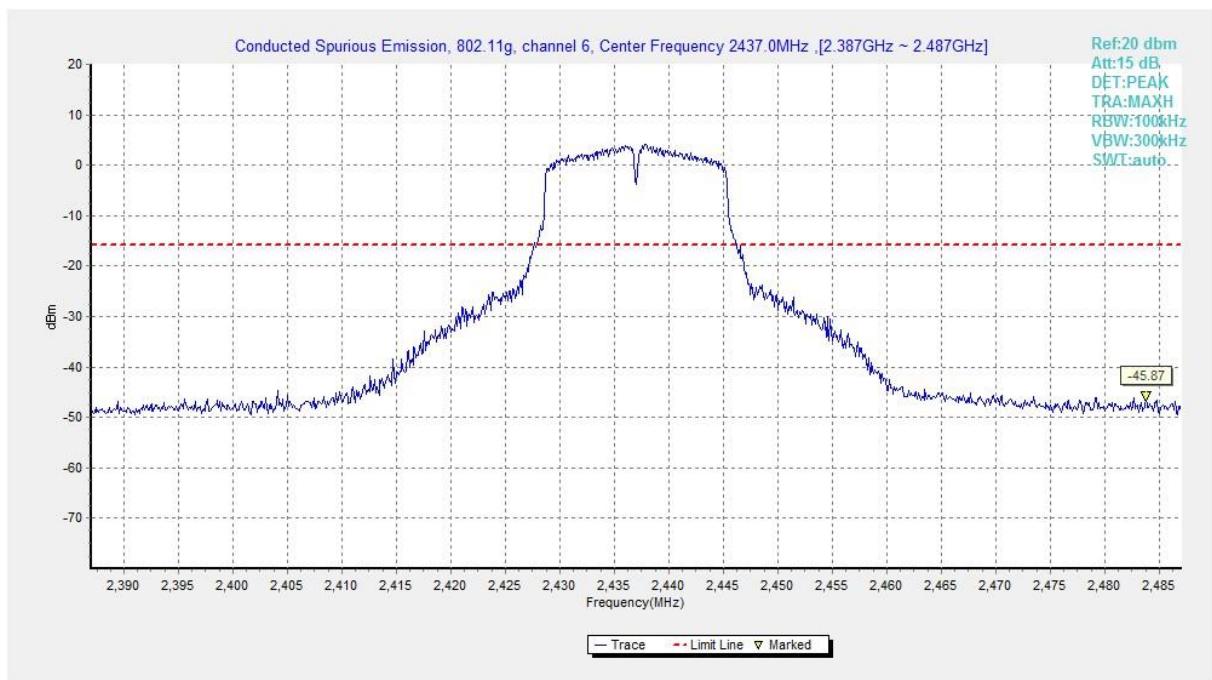


Fig.A.6.1.33 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)

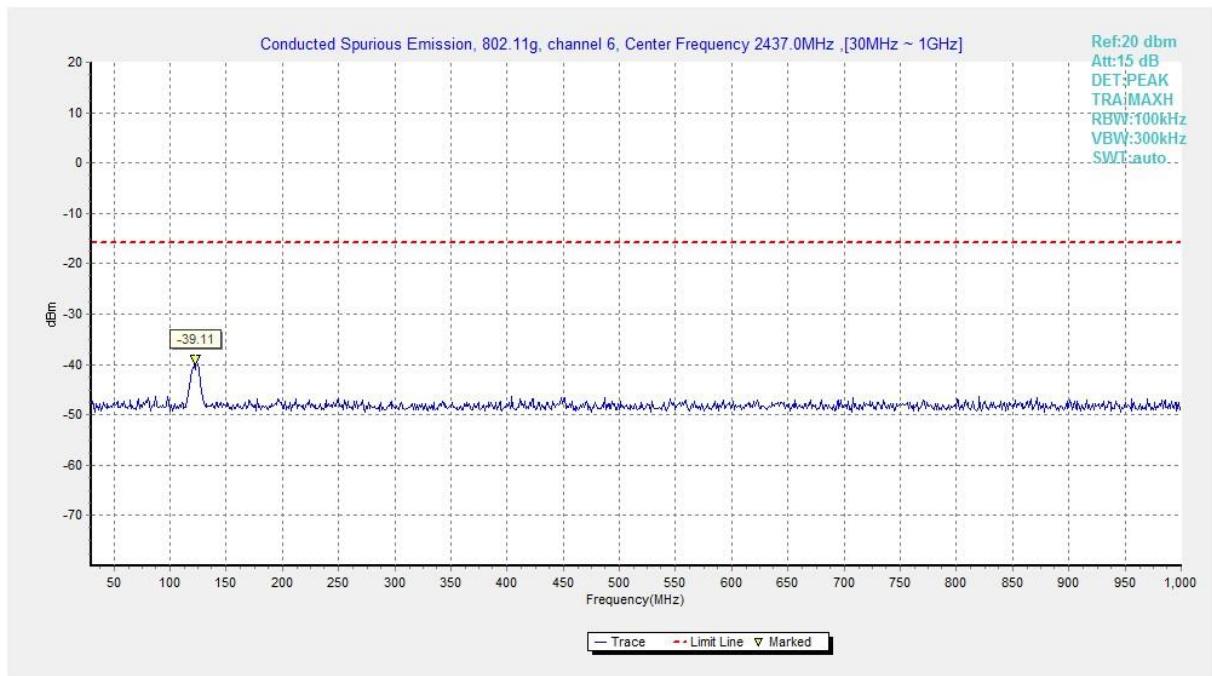


Fig.A.6.1.34 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-1 GHz)

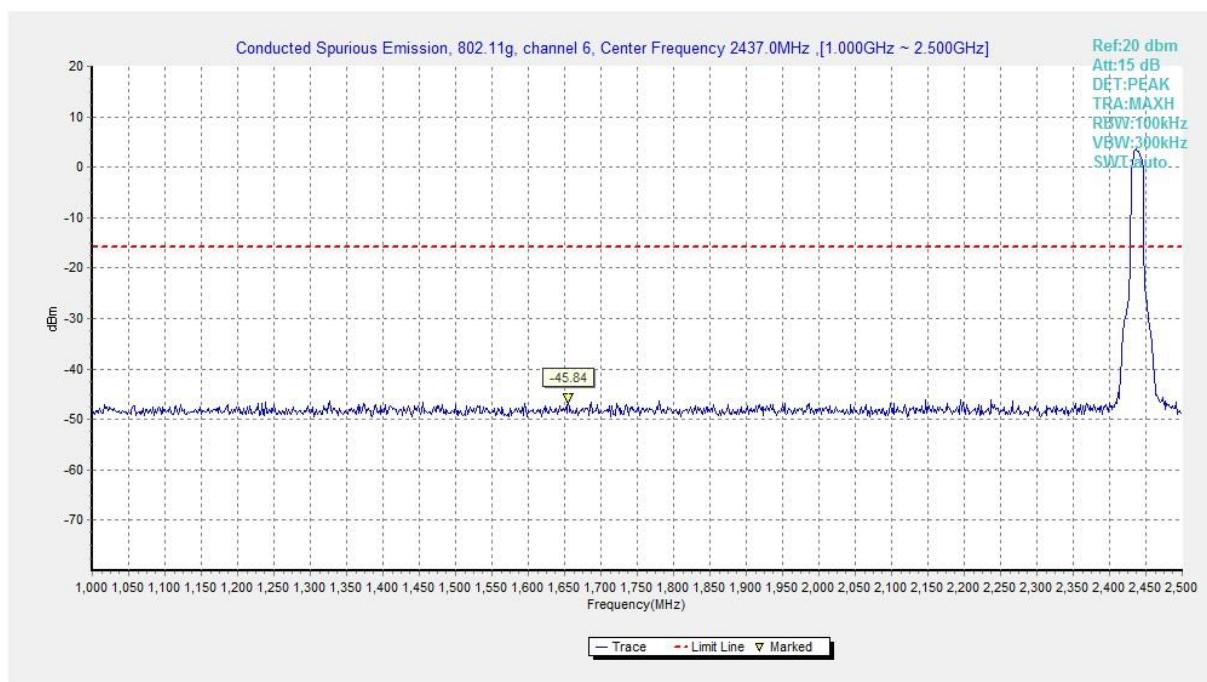


Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)

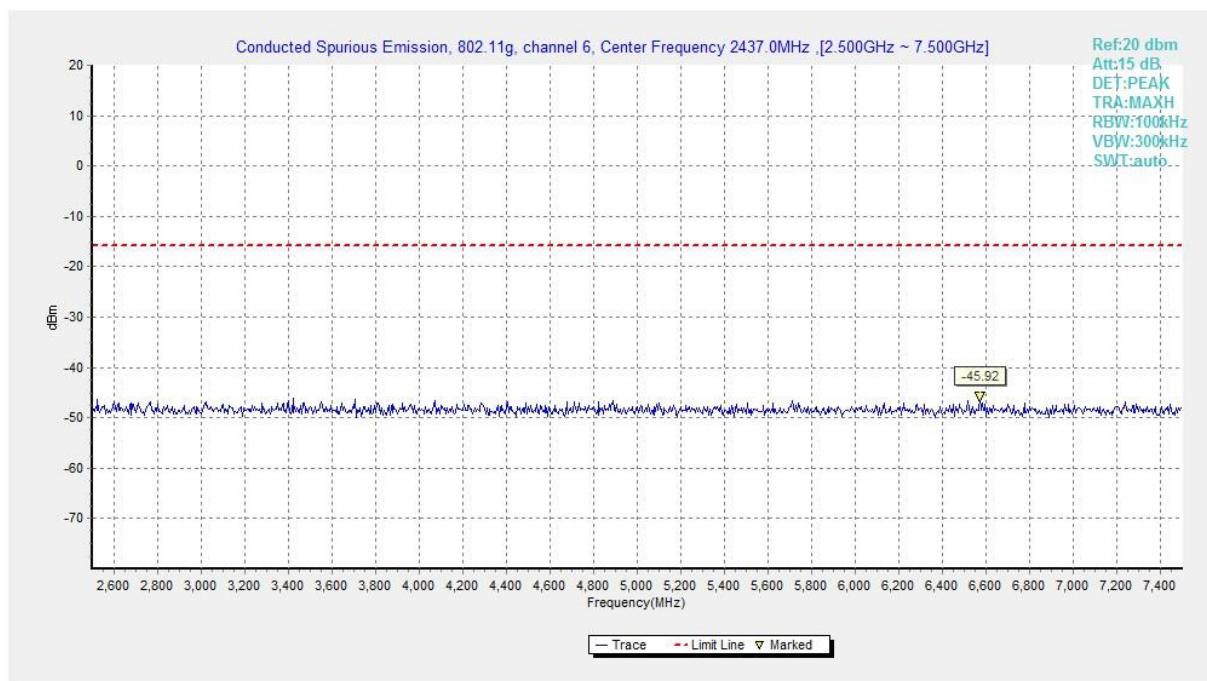


Fig.A.6.1.36 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 2.5 GHz-7.5 GHz)

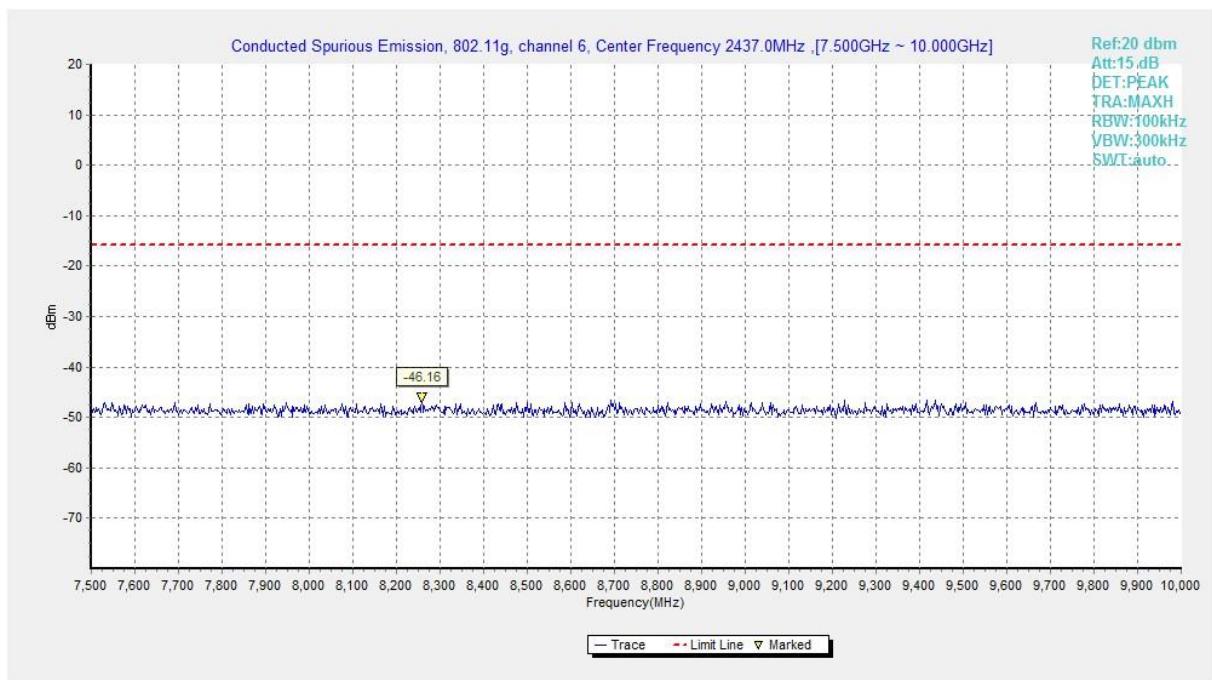


Fig.A.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)

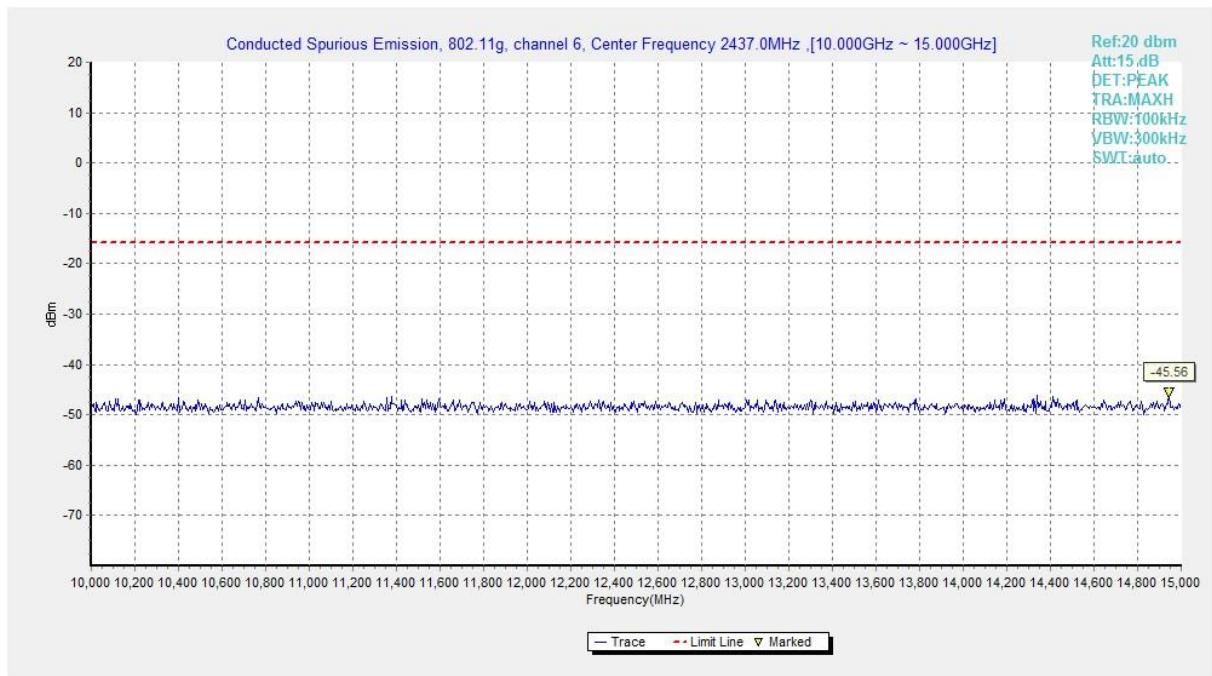


Fig.A.6.1.38 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 10 GHz-15 GHz)

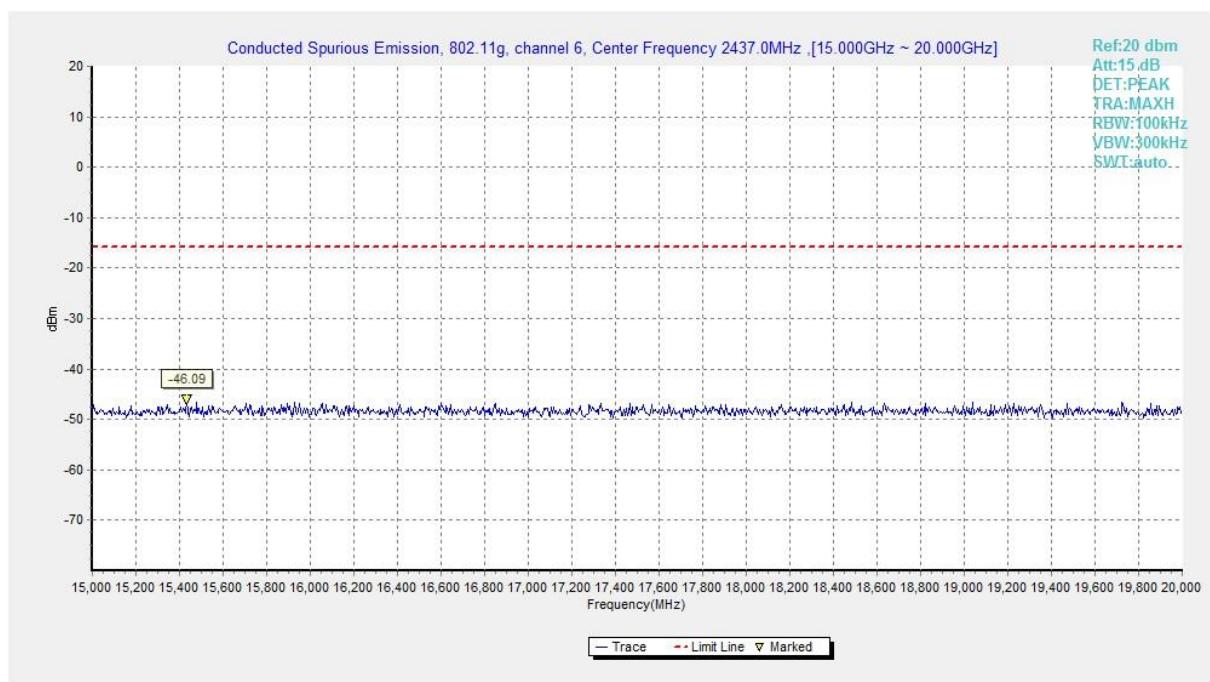


Fig.A.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)

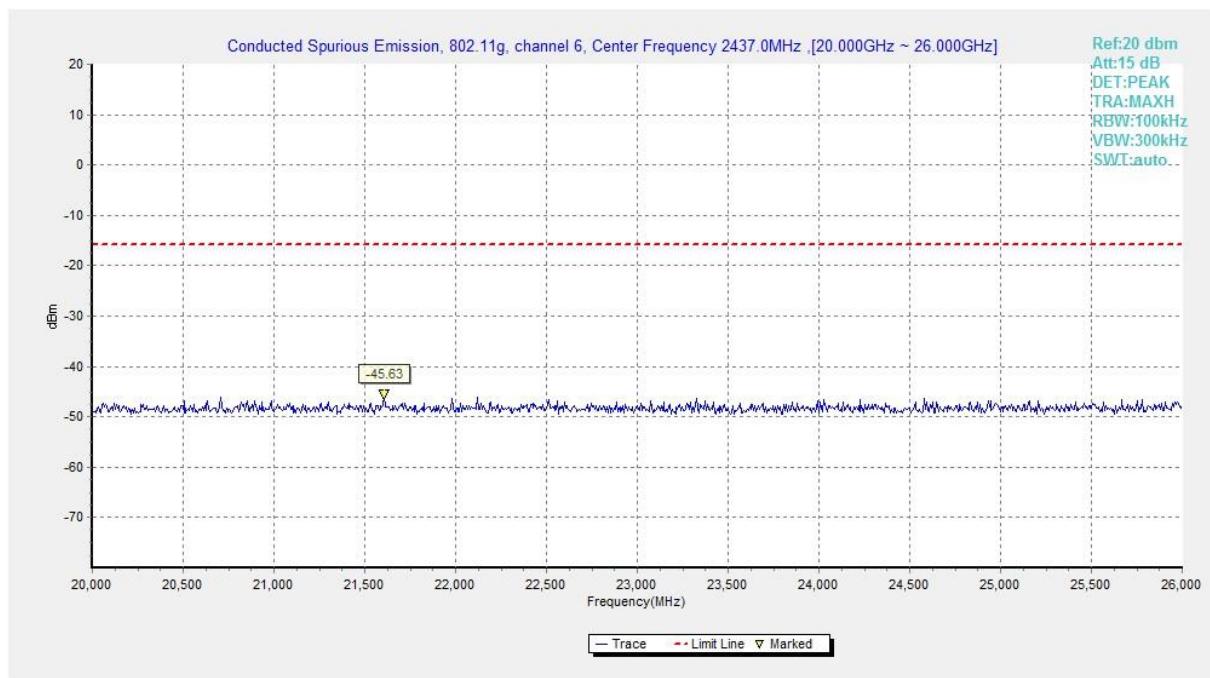


Fig.A.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)

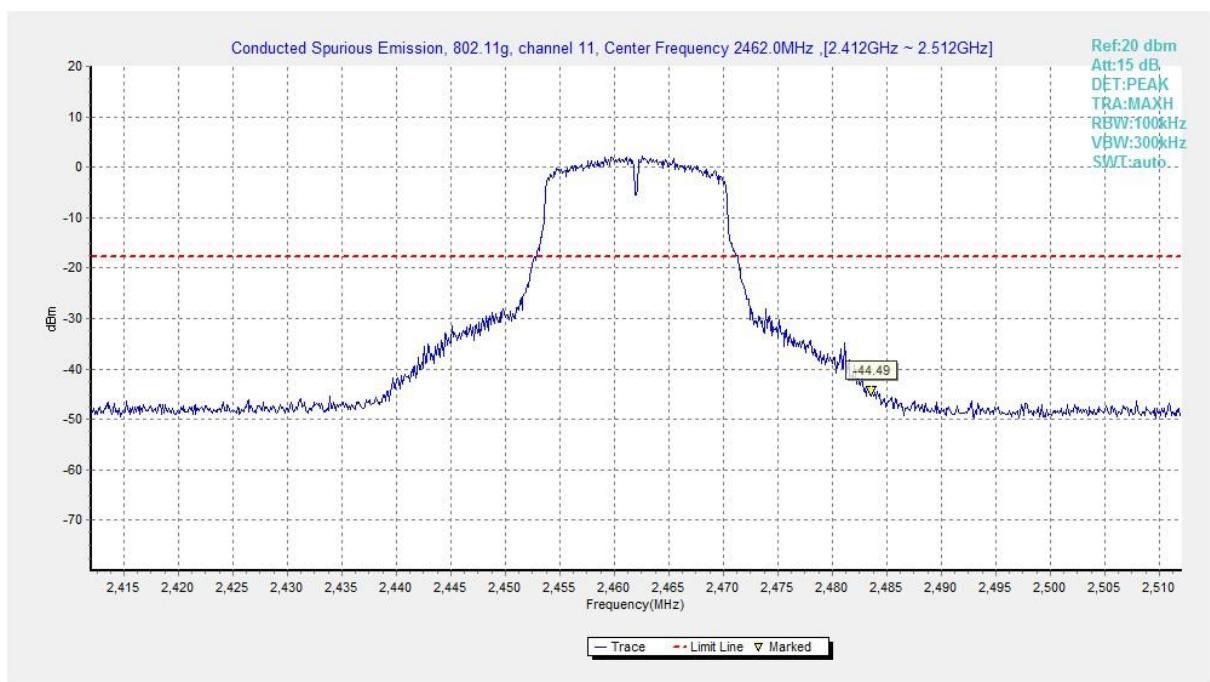


Fig.A.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)

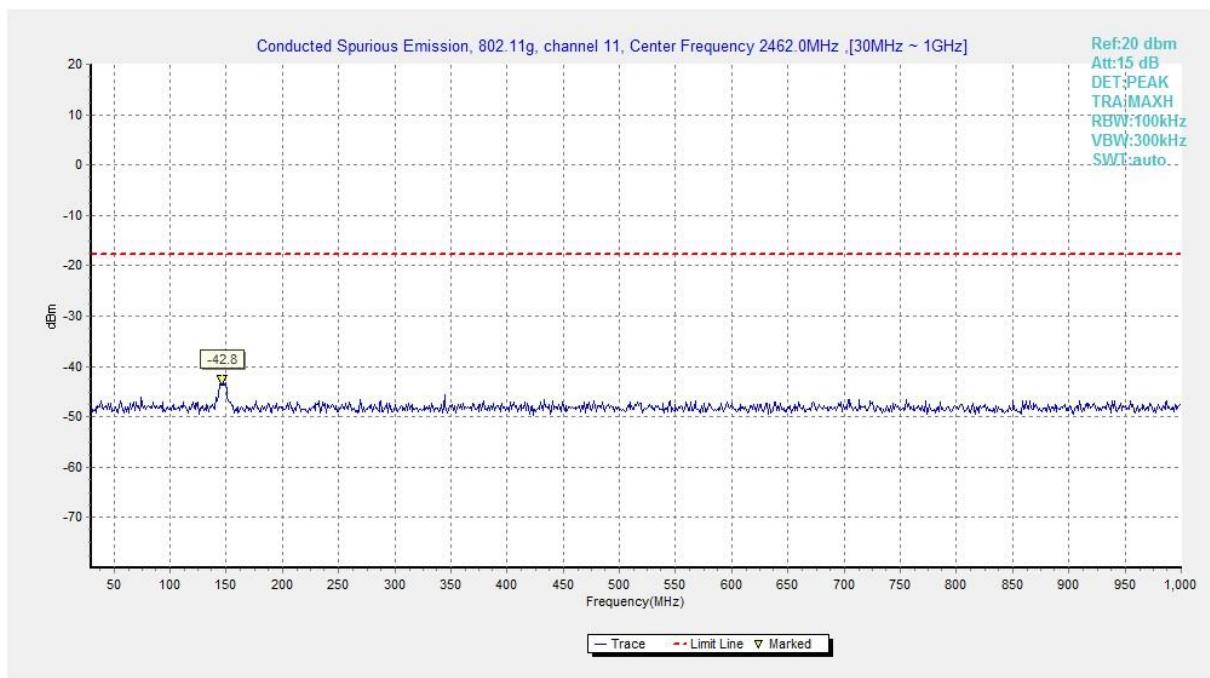


Fig.A.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)

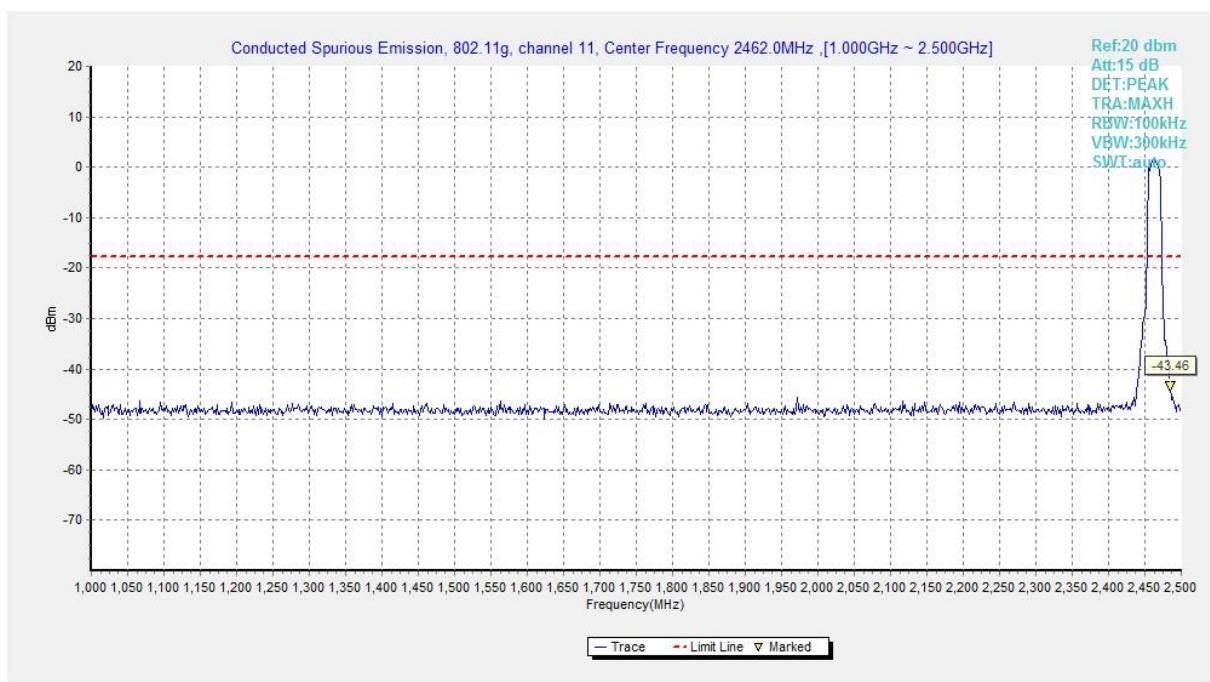


Fig.A.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)

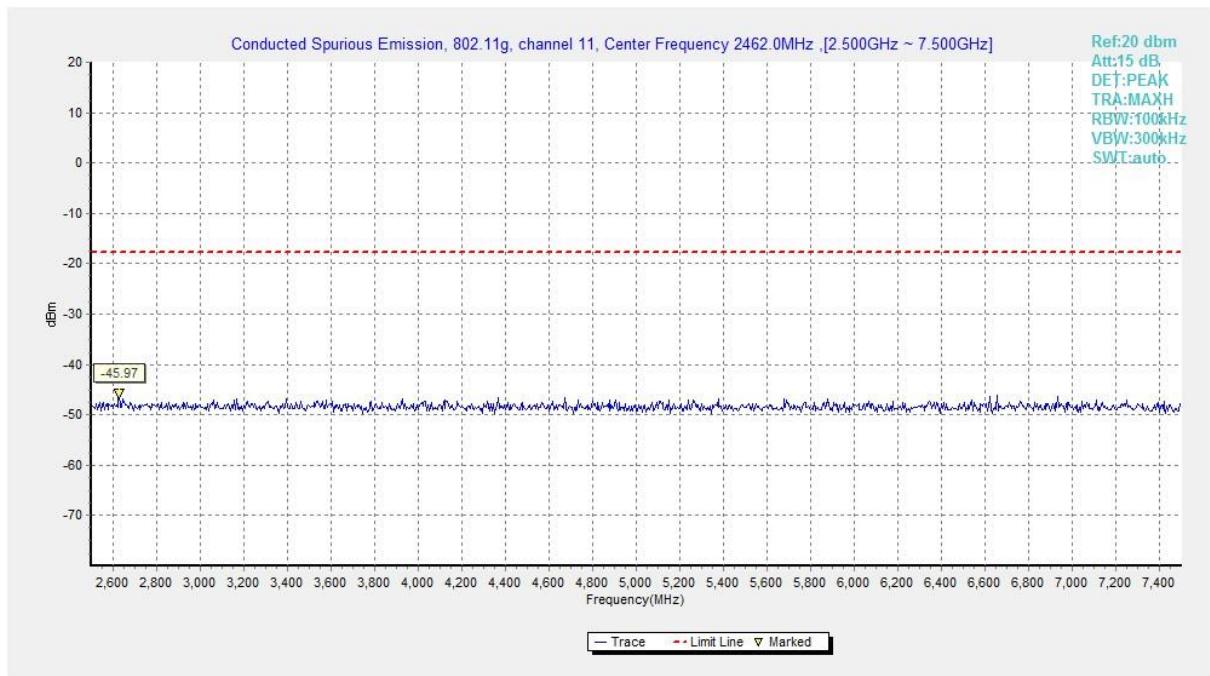


Fig.A.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)

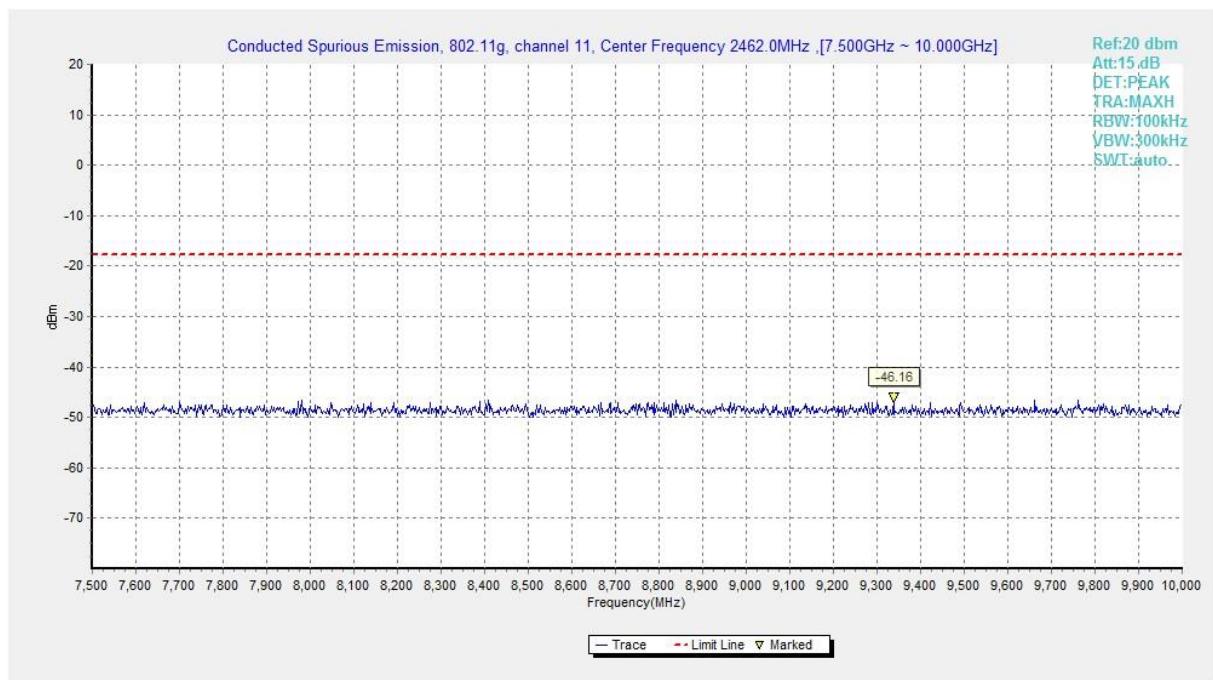


Fig.A.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)

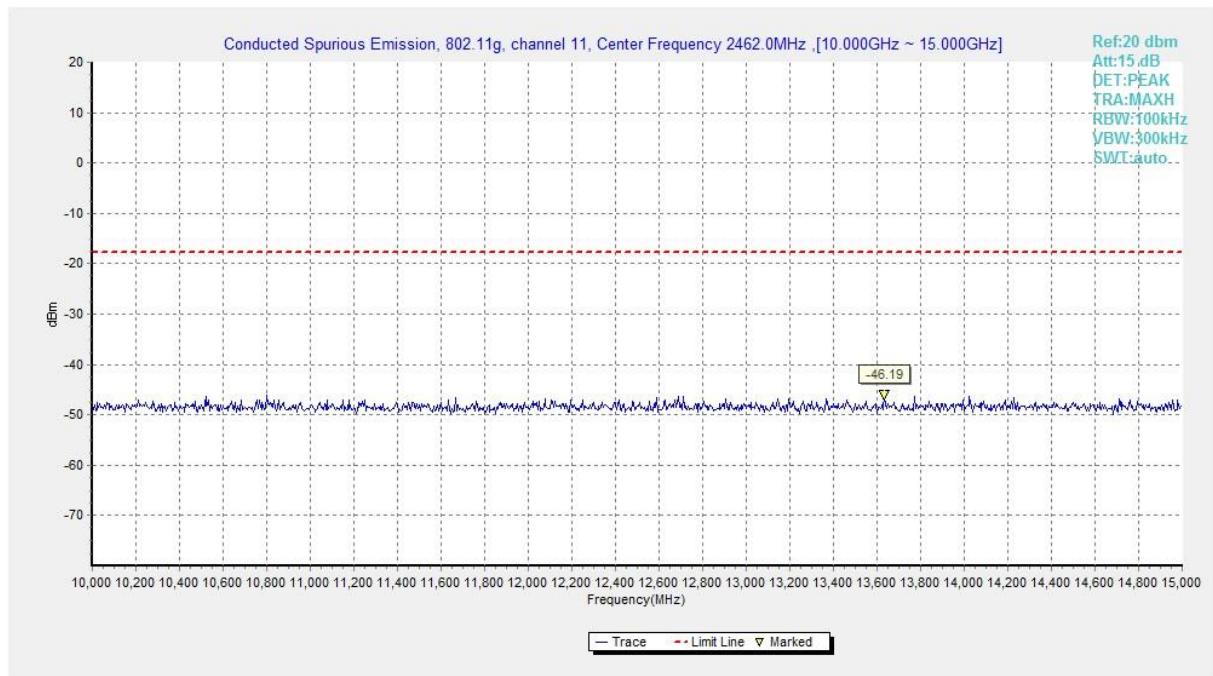


Fig.A.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)

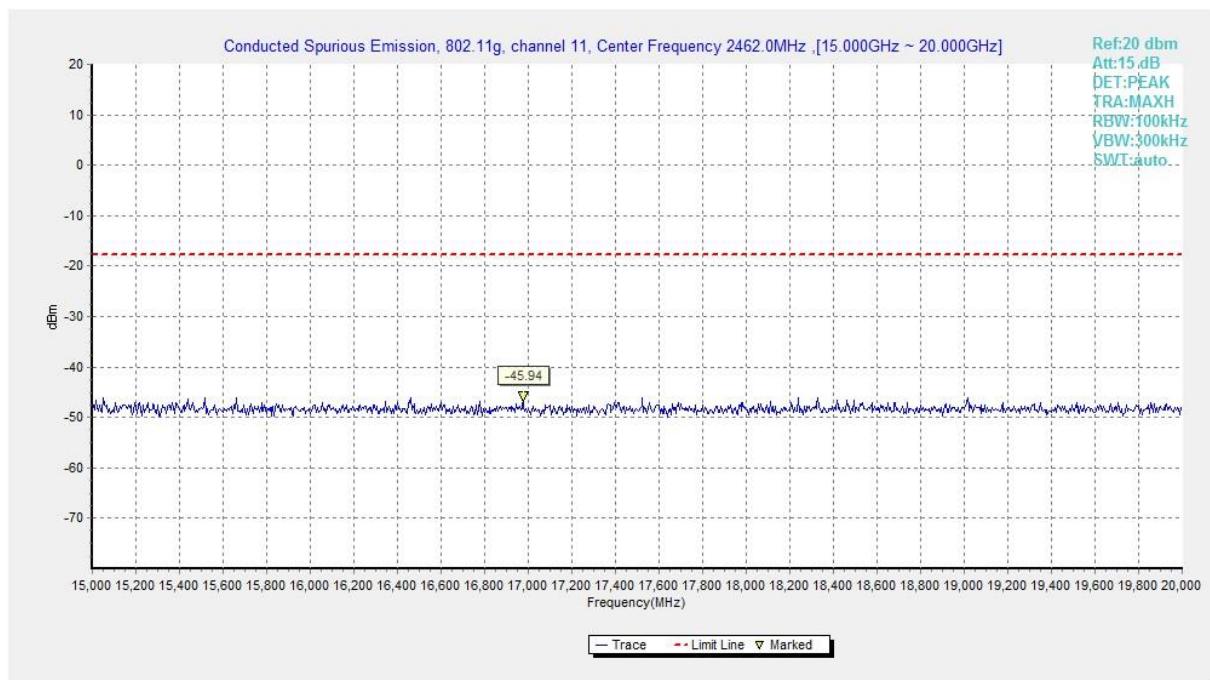


Fig.A.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)

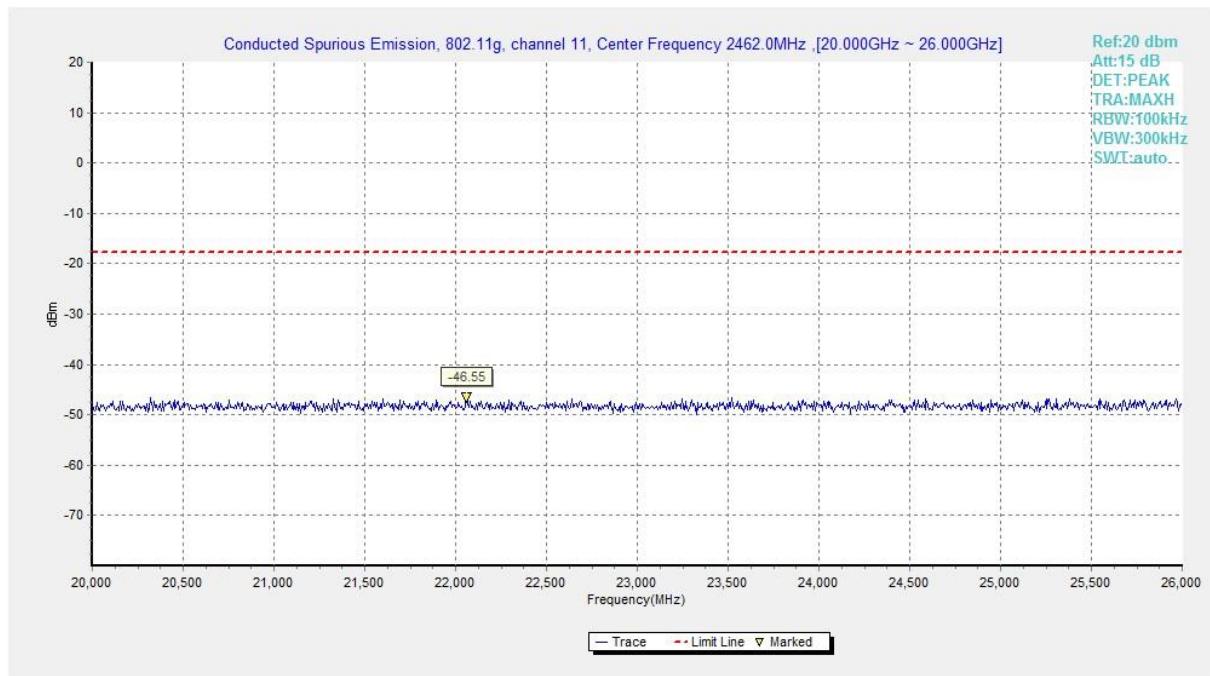


Fig.A.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)

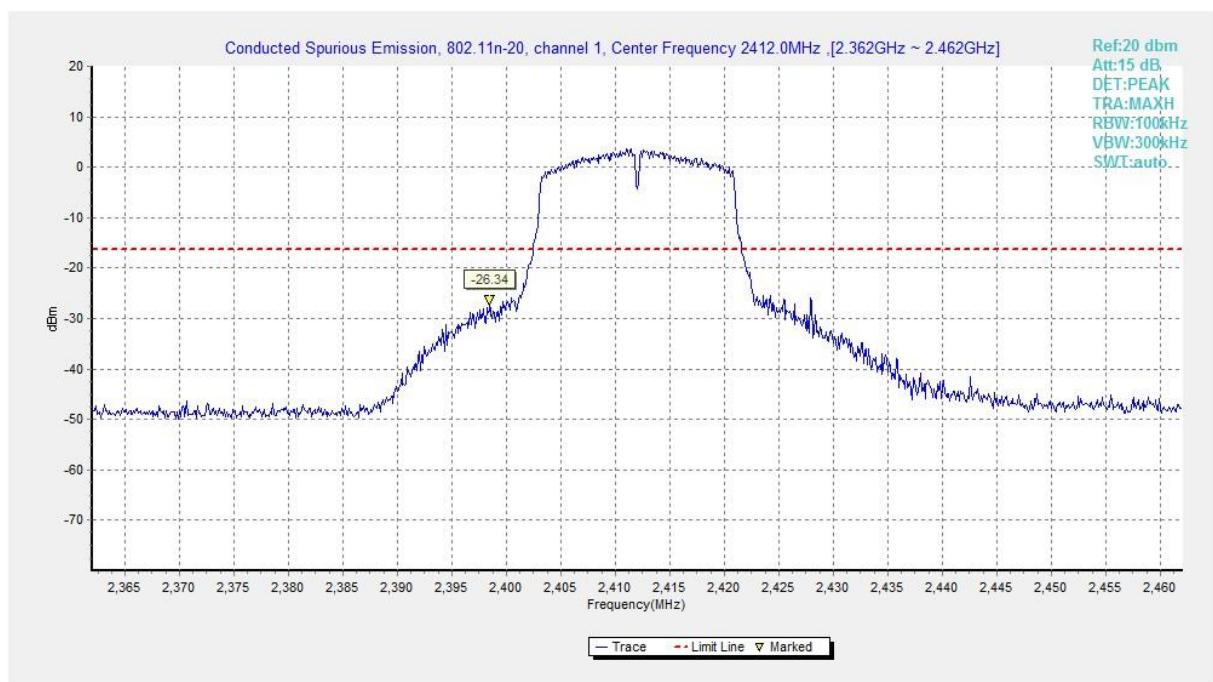


Fig.A.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)

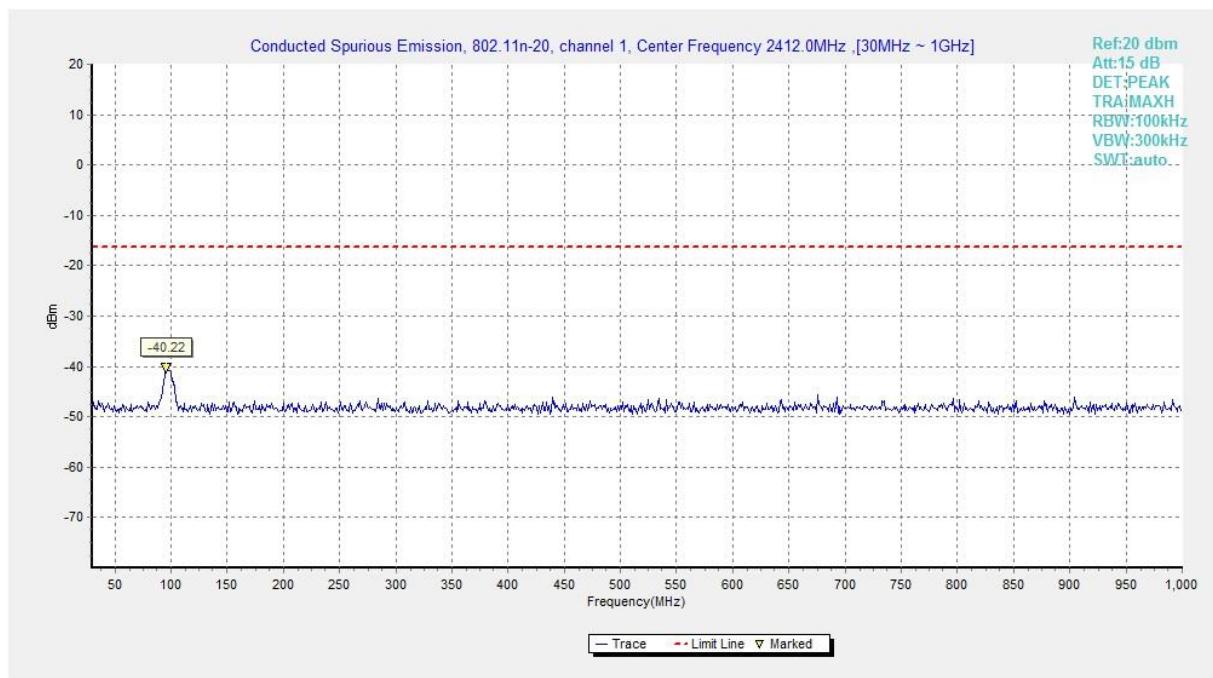


Fig.A.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)

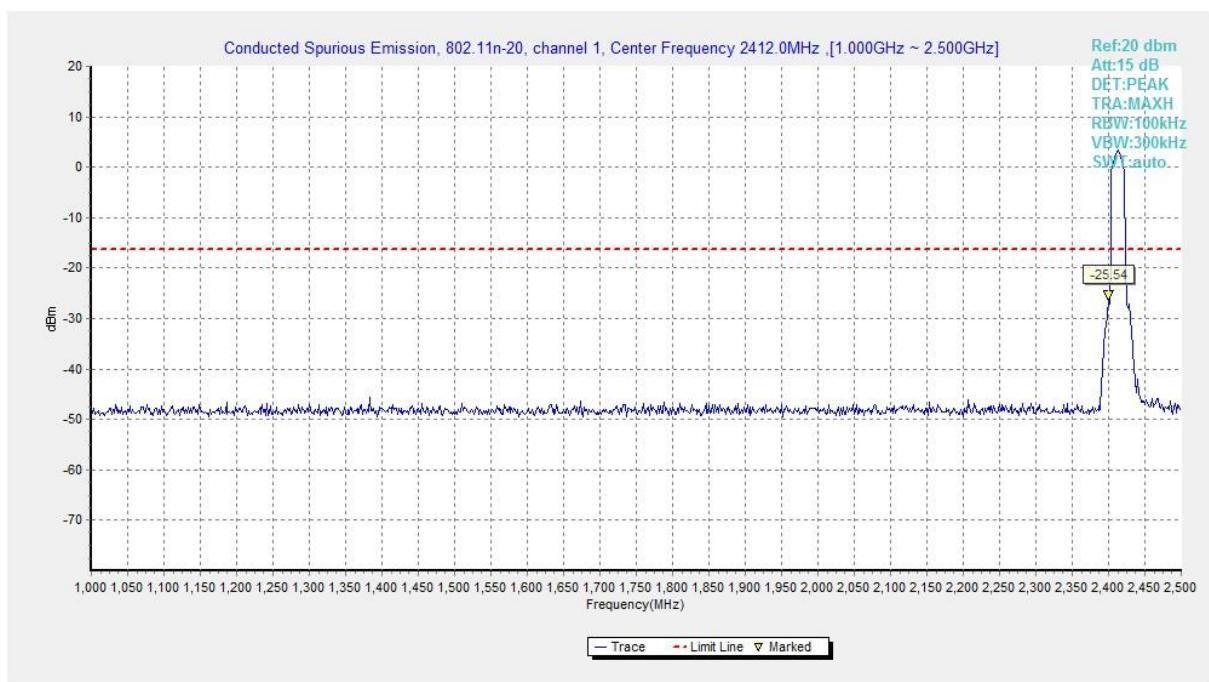


Fig.A.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)

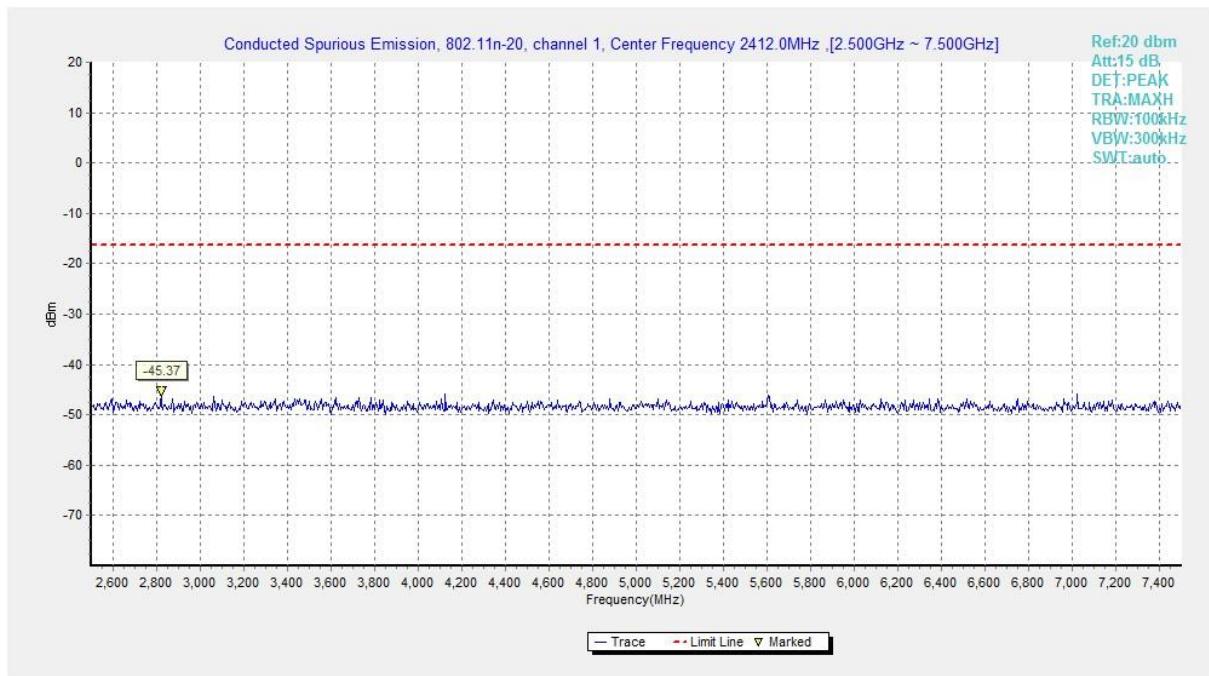


Fig.A.6.1.52 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)

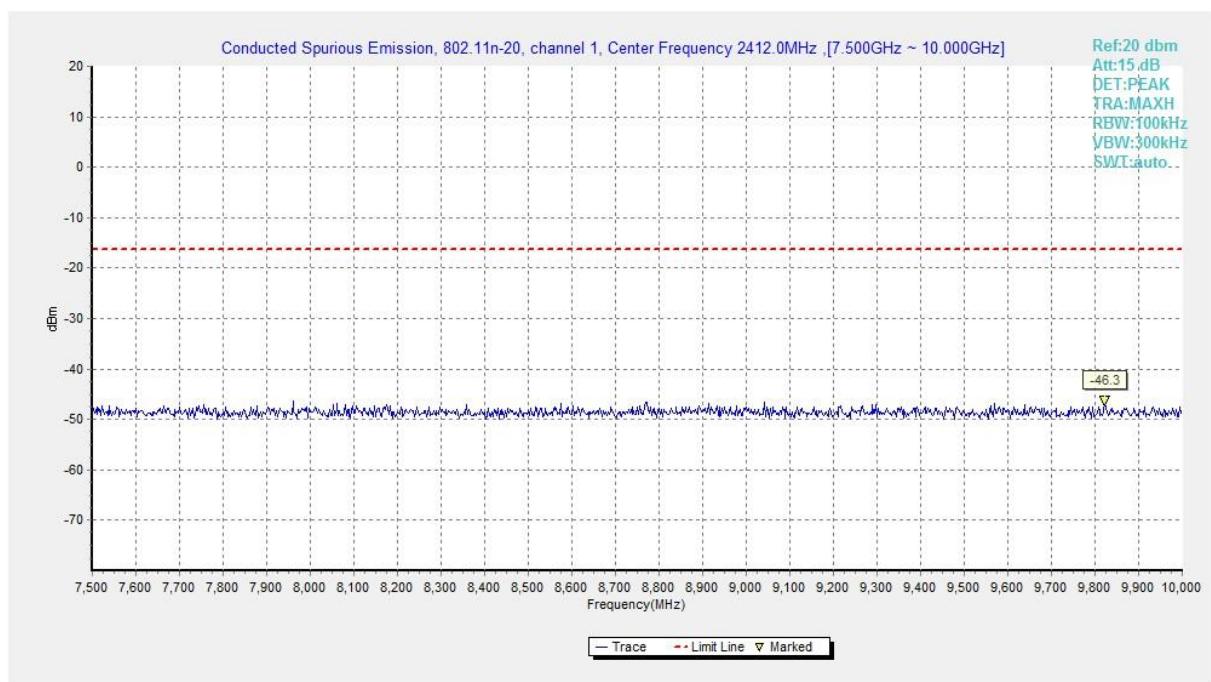


Fig.A.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)

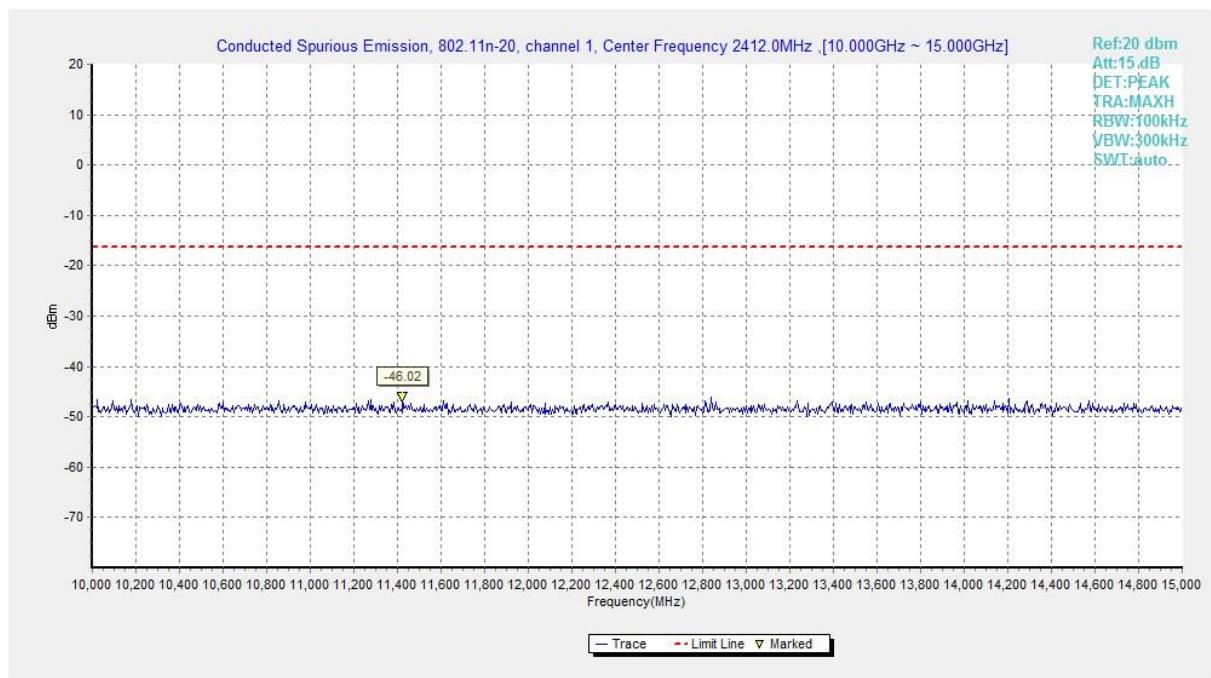


Fig.A.6.1.54 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 10 GHz-15 GHz)

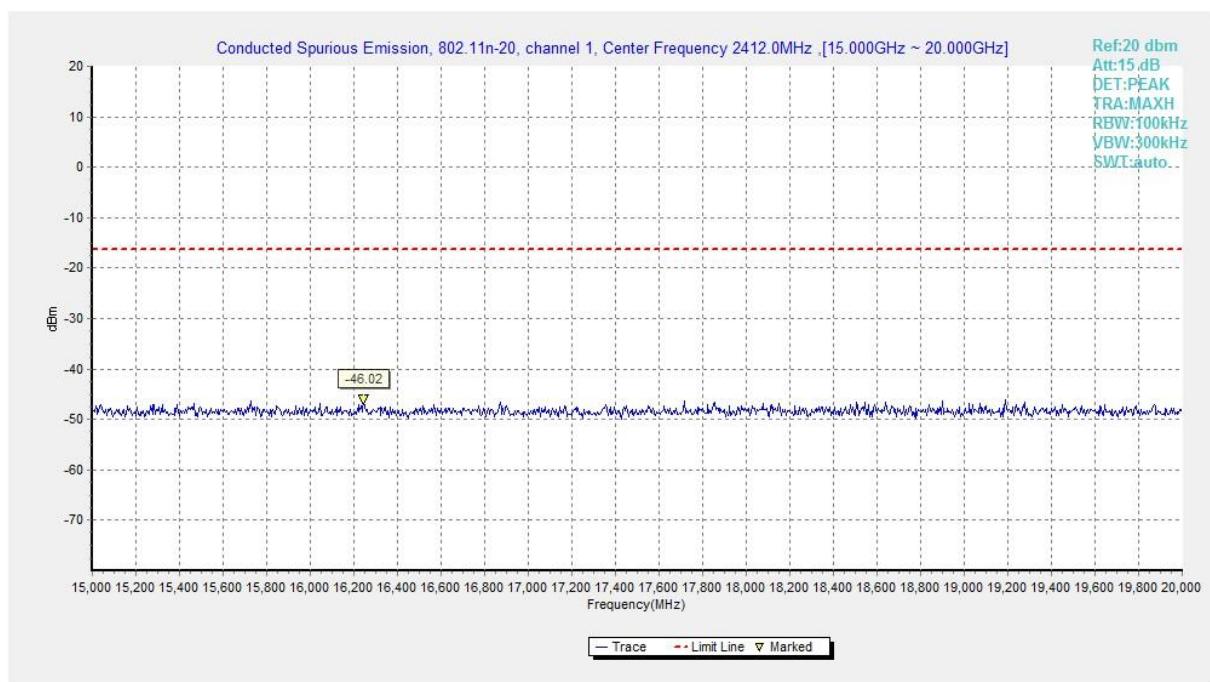


Fig.A.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)

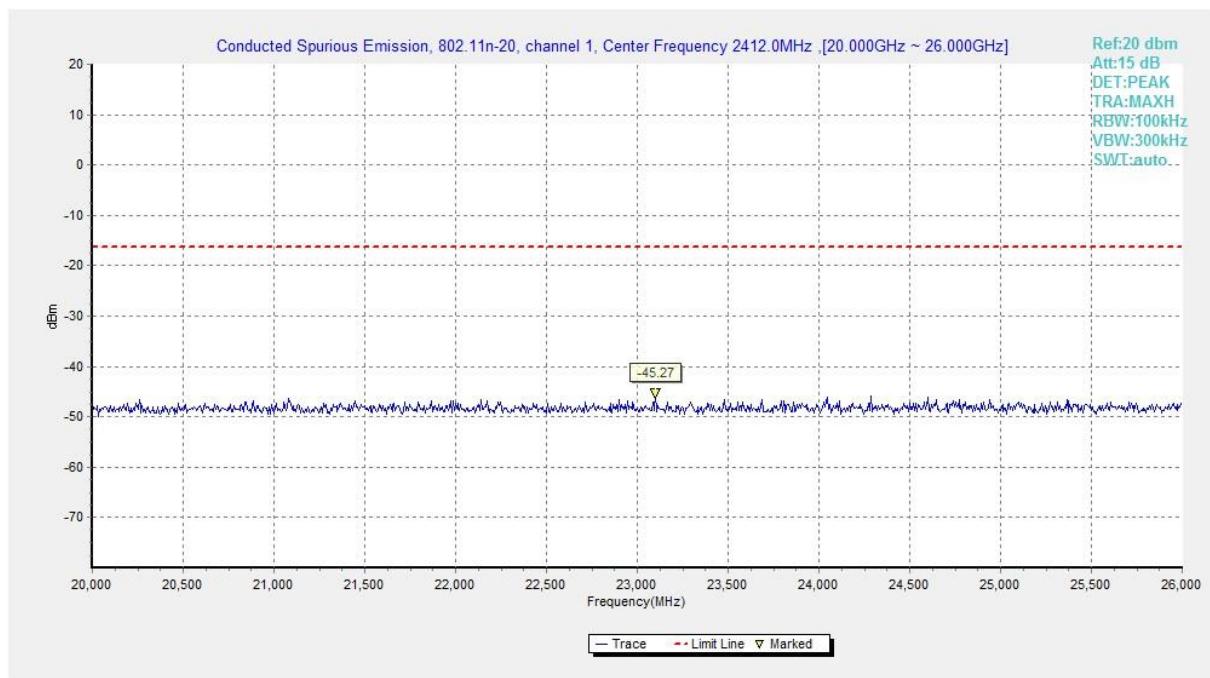


Fig.A.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)

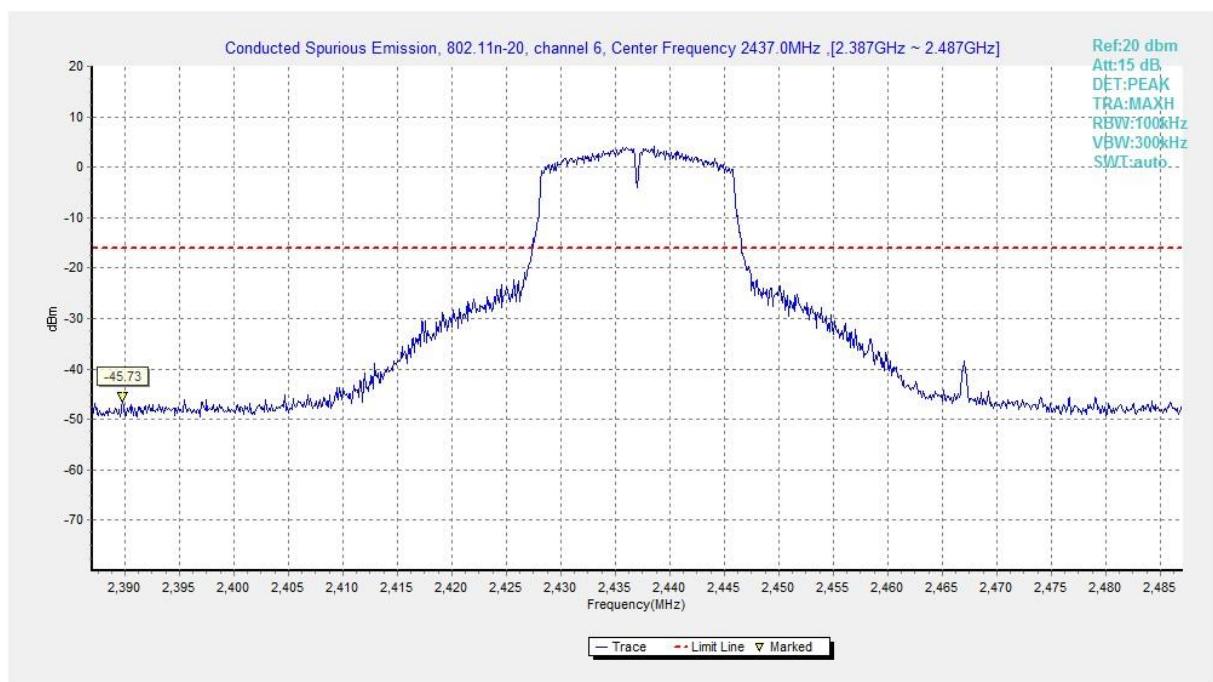


Fig.A.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)

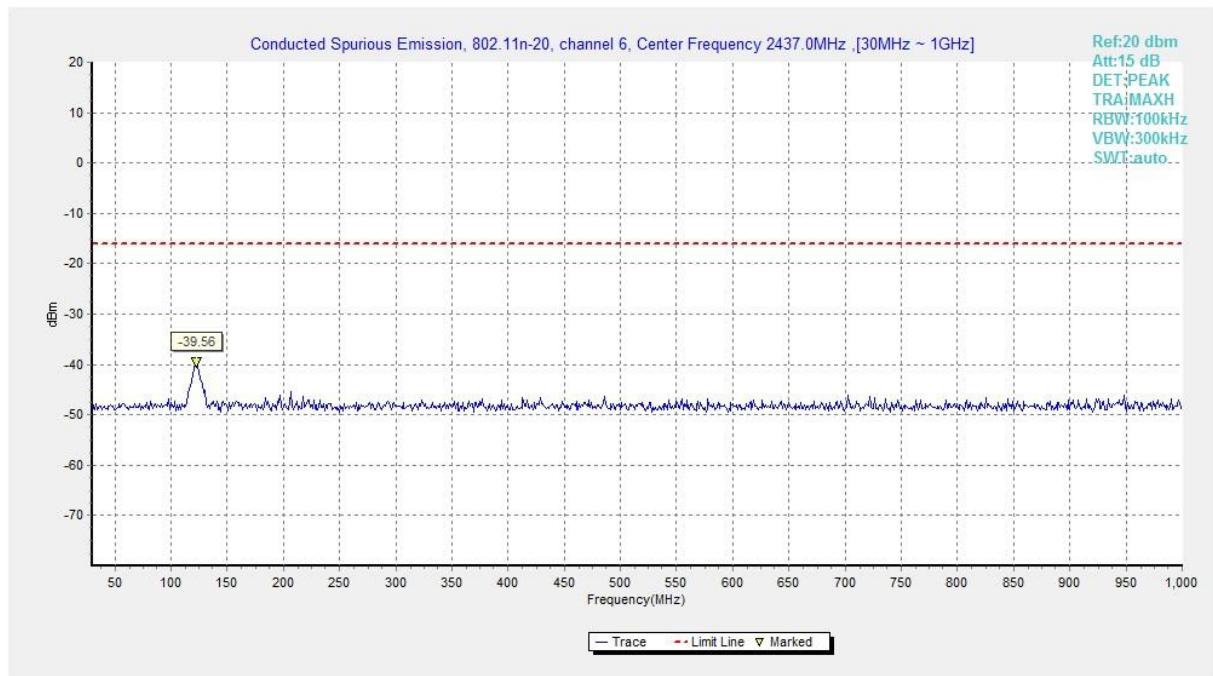


Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)

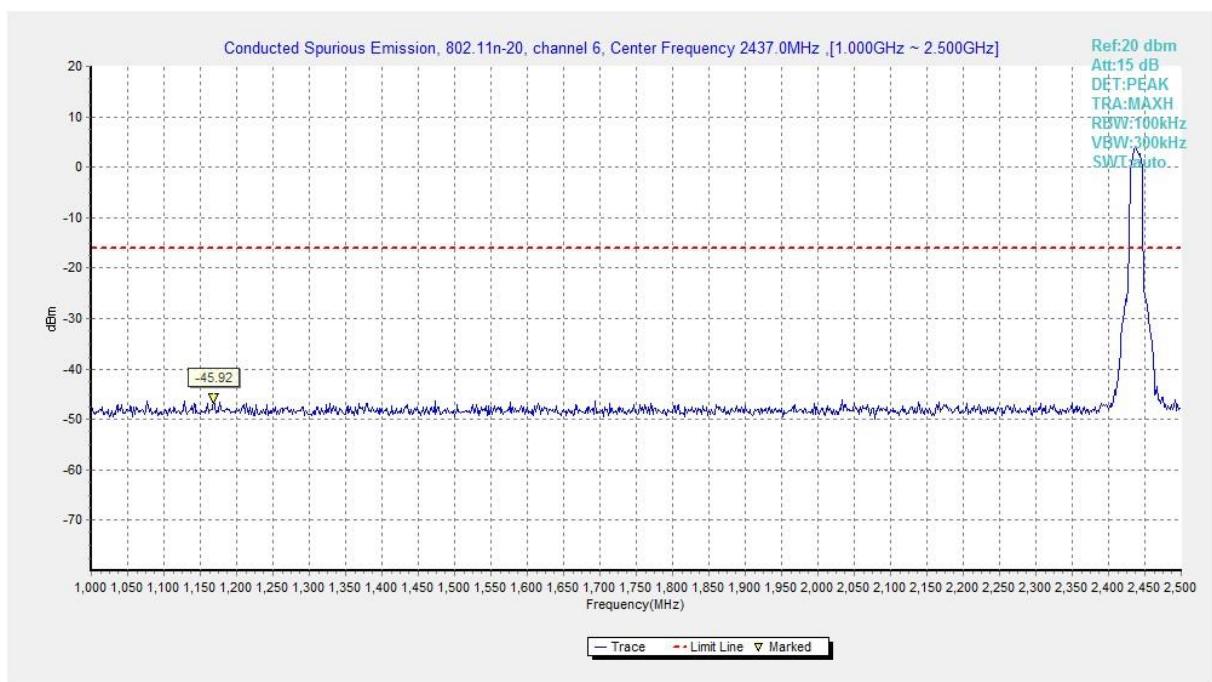


Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

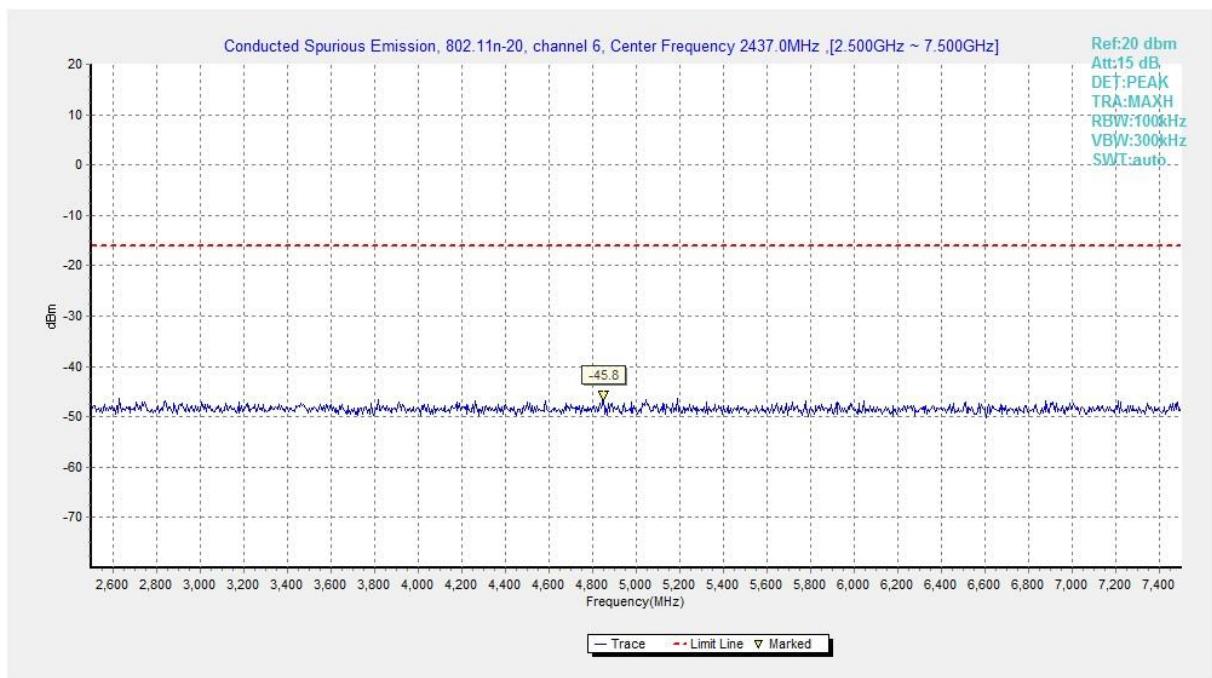


Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

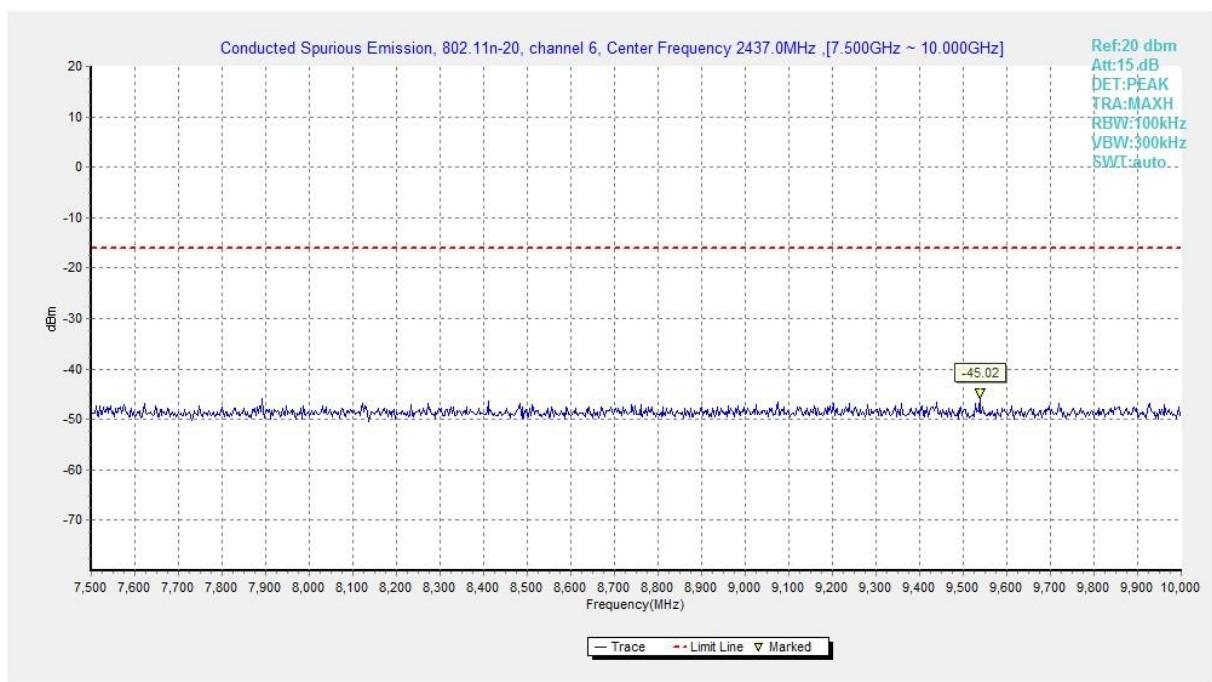


Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

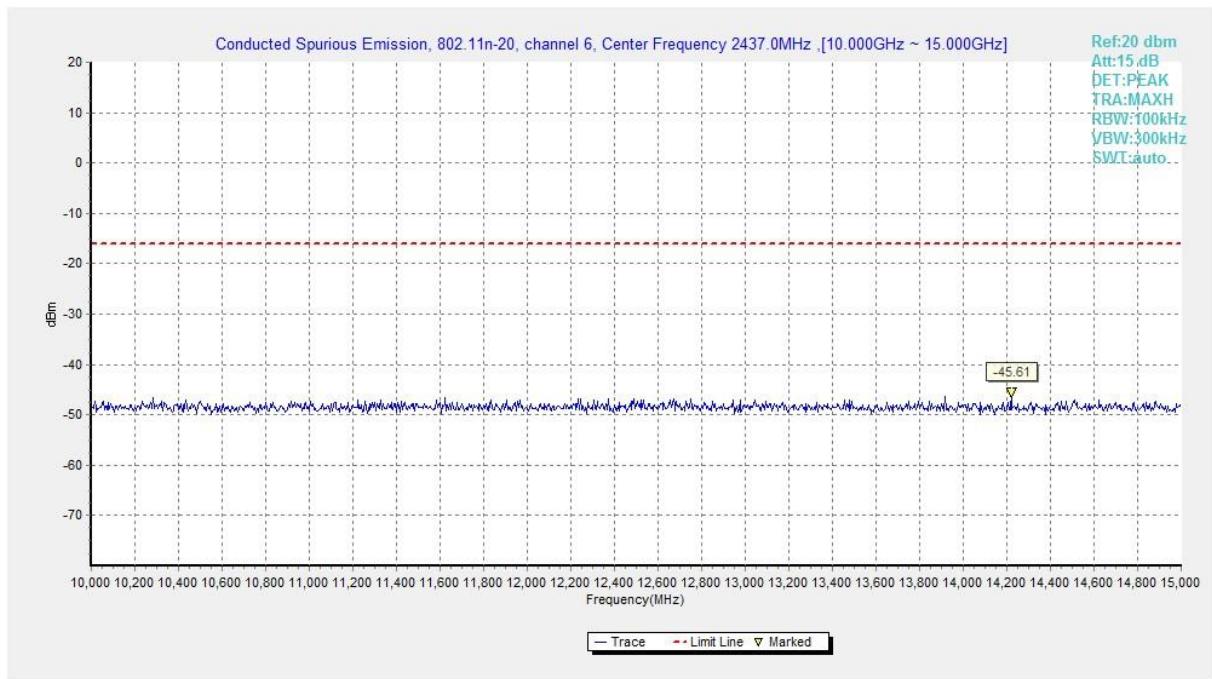


Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

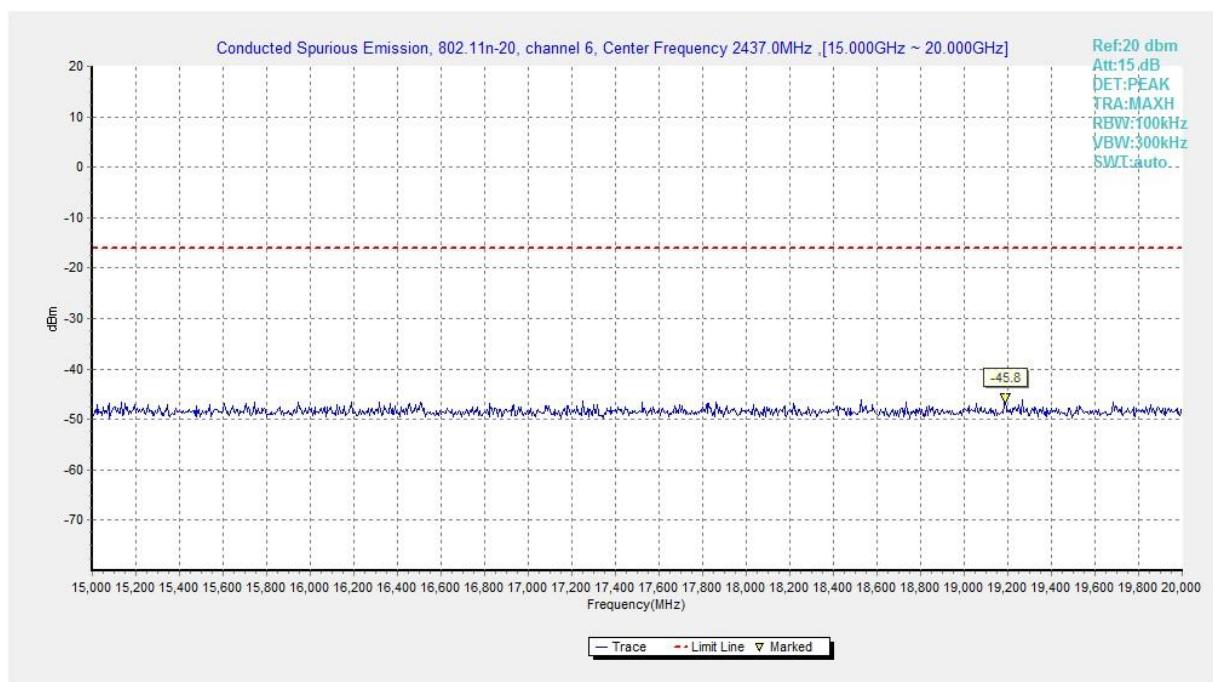


Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

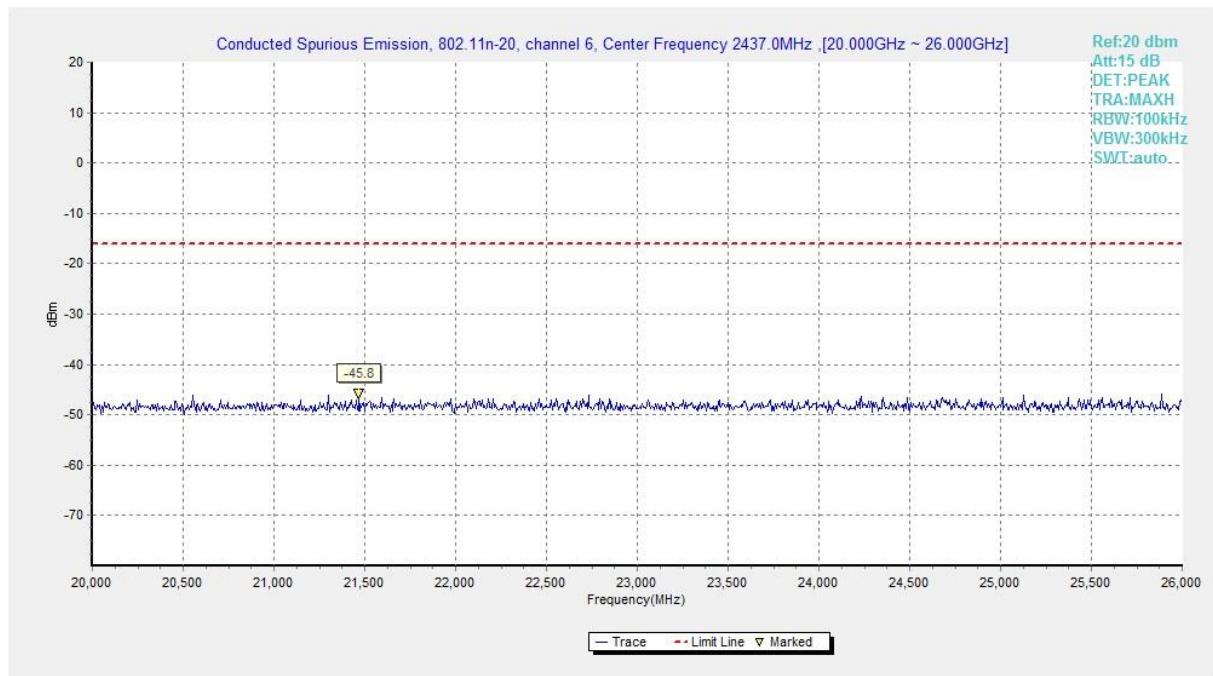


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

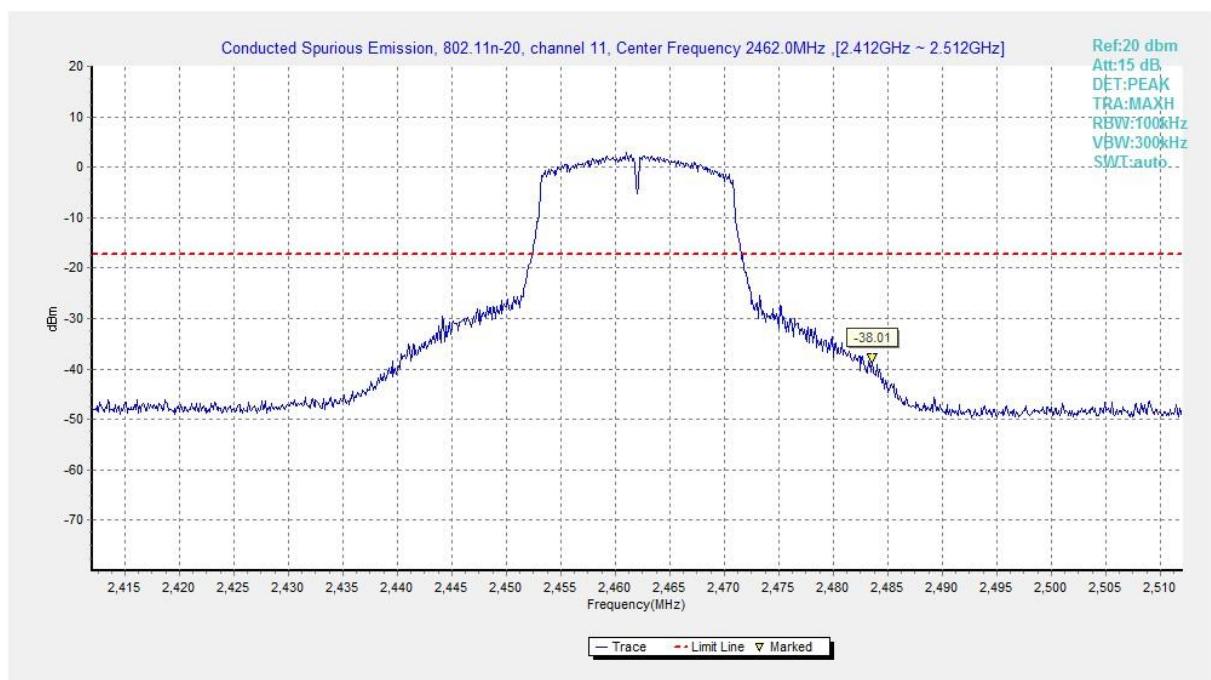


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

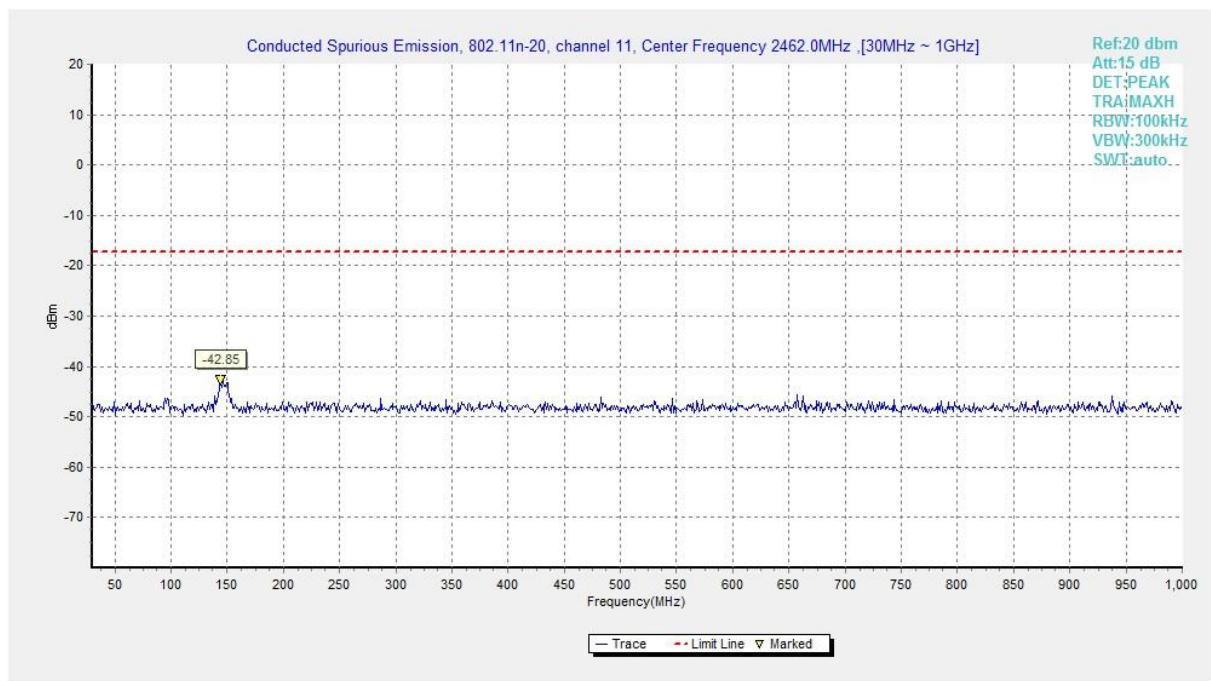


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

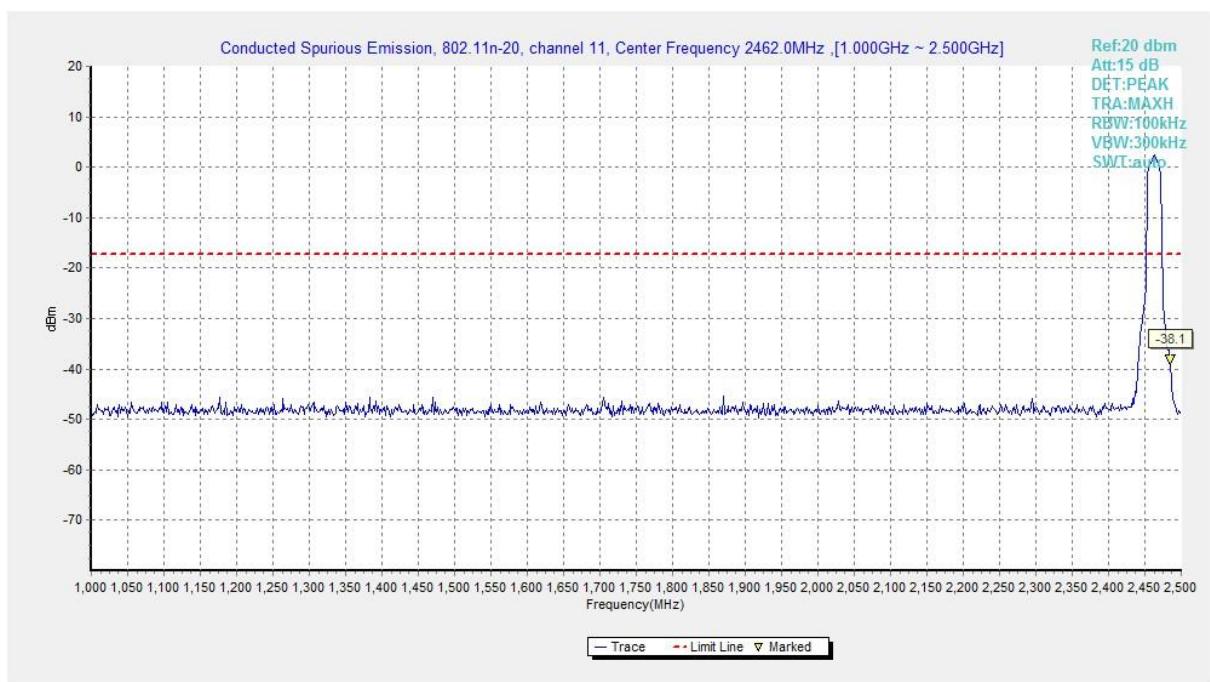


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

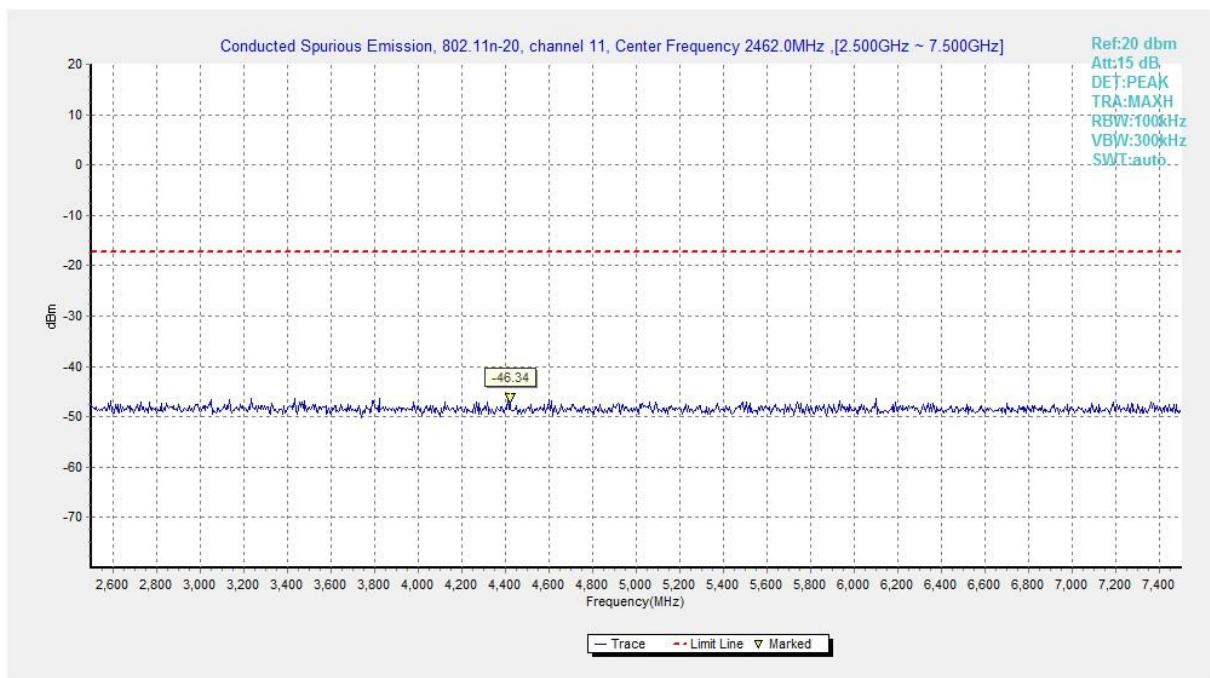


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

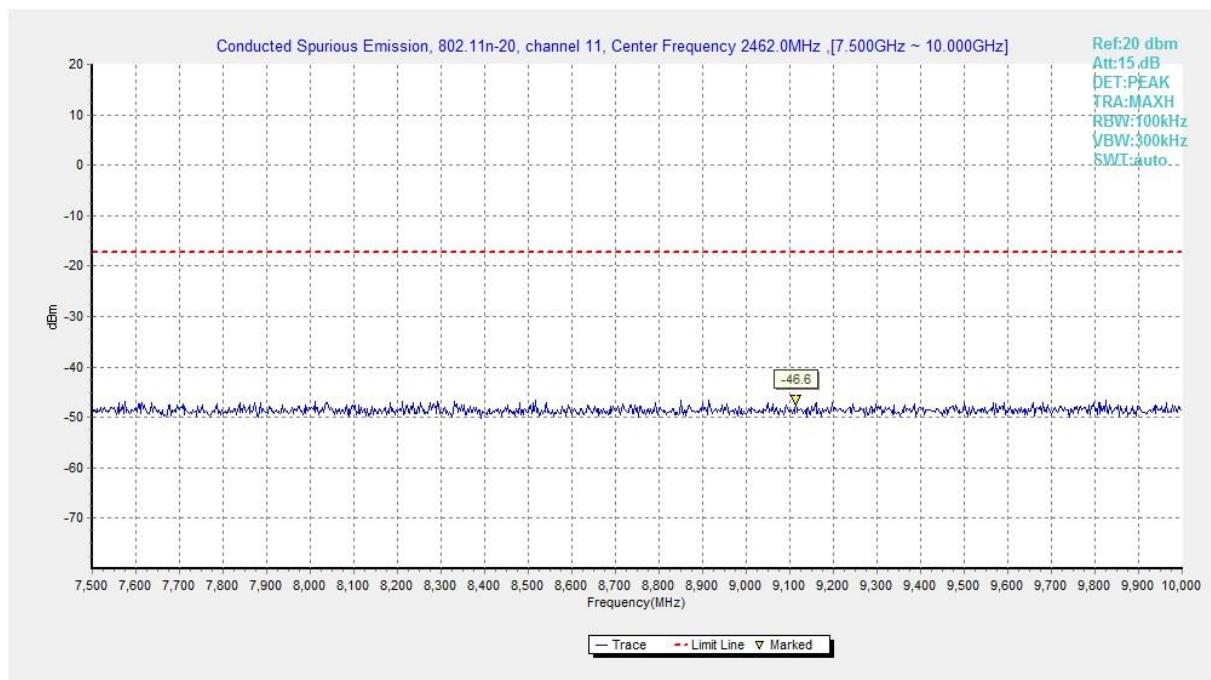


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

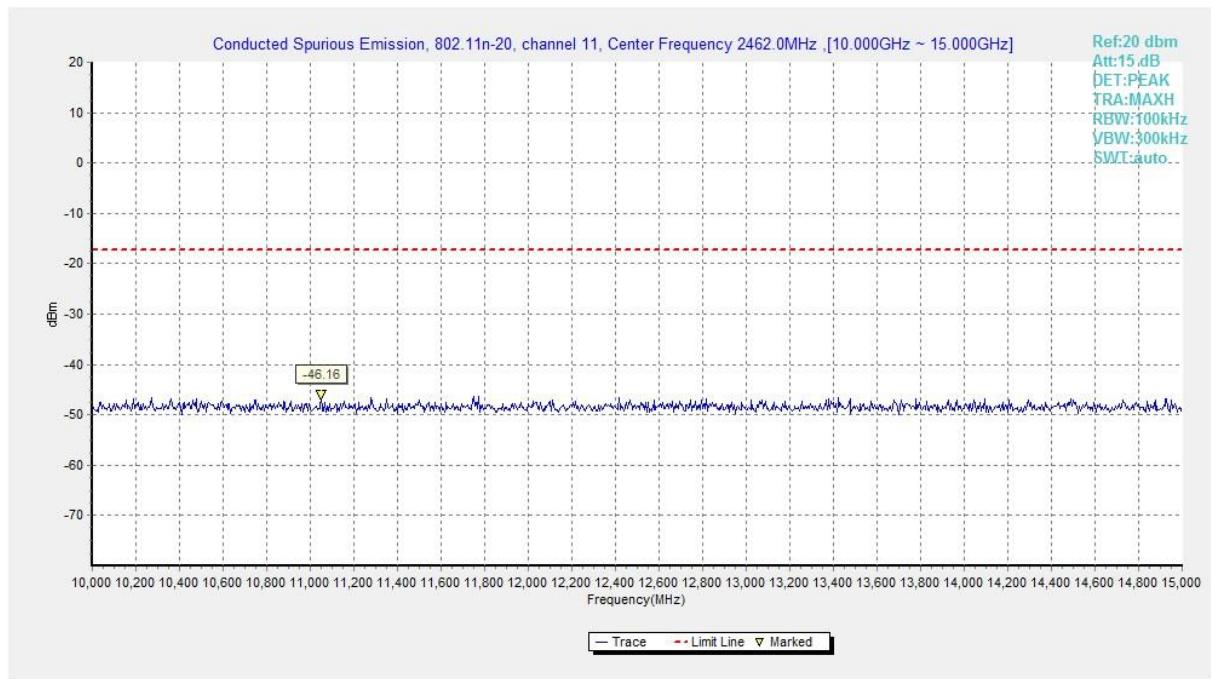


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

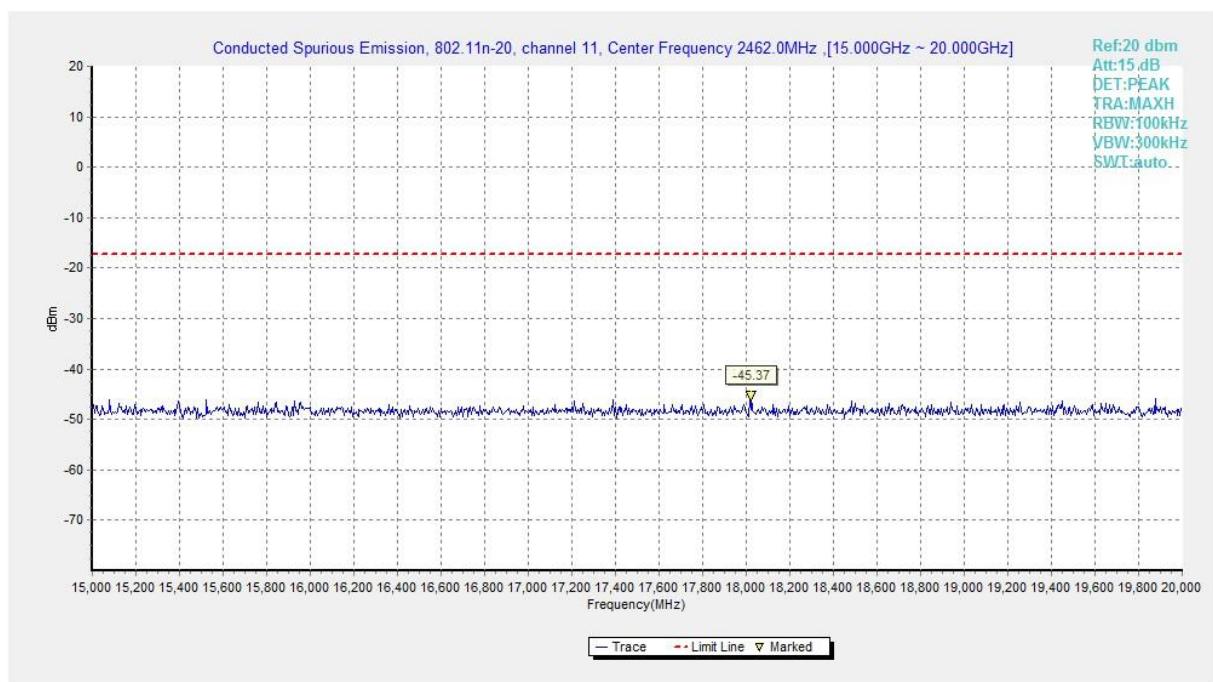


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

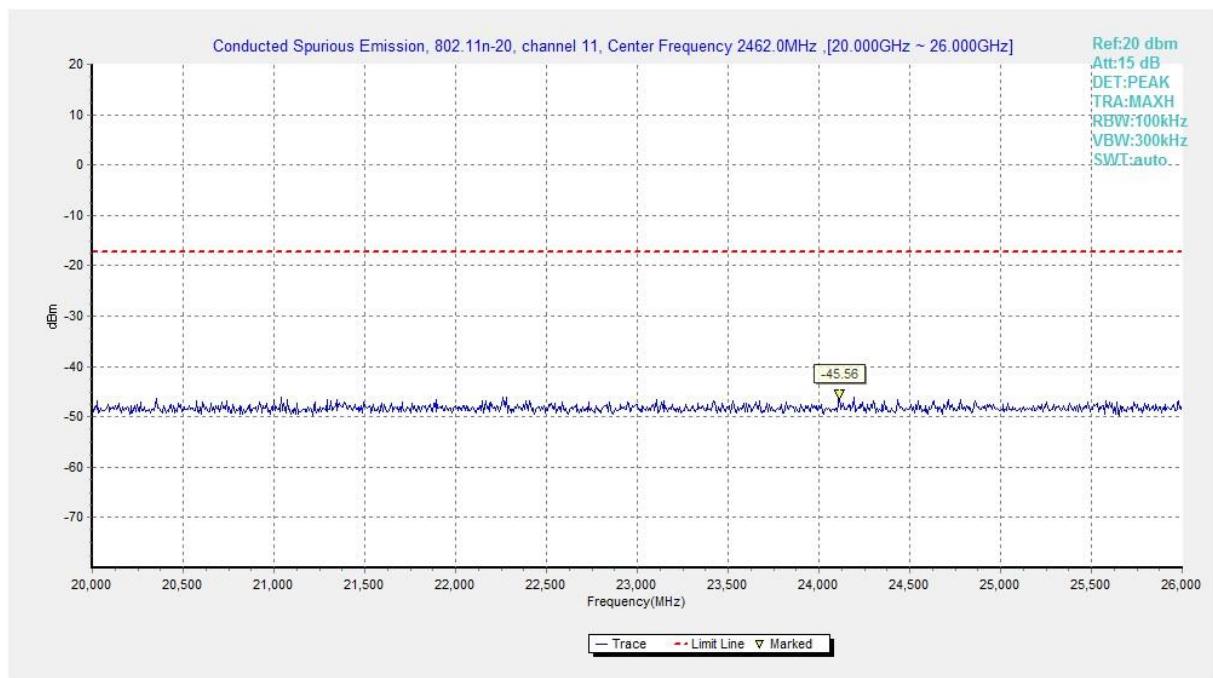


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

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: UT03a

Measurement results for :
802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	1	2.31GHz~2.43GHz---L	Fig.A.6.2.1	P
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	1	2.31GHz~2.43GHz---L	Fig.A.6.2.3	P
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	1	2.31GHz~2.43GHz---L	Fig.A.6.2.5	P
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.6	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)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17999.000	56.39	-25.50	46.70	35.19	74.00	17.61	V
14309.500	52.30	-28.40	42.30	38.40	74.00	21.70	H
12659.000	47.57	-30.50	39.10	38.97	74.00	26.43	V
8857.500	44.41	-33.50	38.10	39.81	74.00	29.59	V
7365.000	43.08	-35.10	36.60	41.58	74.00	30.92	H
2388.400	54.40	-20.00	28.10	46.40	74.00	19.60	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)
17991.500	56.84	-25.50	46.70	35.64	74.00	17.16	H
14382.000	51.40	-28.40	42.30	37.50	74.00	22.60	H
12975.500	46.92	-30.50	39.20	38.22	74.00	27.08	V
9842.000	44.50	-33.50	38.00	40.00	74.00	29.50	V
7262.000	42.76	-35.00	36.50	41.16	74.00	31.24	V
4946.500	39.38	-37.10	33.30	43.18	74.00	34.62	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)
17990.000	56.74	-25.50	46.70	35.54	74.00	17.26	H
14653.500	51.83	-27.30	41.90	37.23	74.00	22.17	H
12320.000	46.92	-31.10	38.90	39.12	74.00	27.08	H
9618.500	44.32	-33.10	38.00	39.42	74.00	29.68	H
7830.500	43.14	-35.10	37.00	41.24	74.00	30.86	H
2490.700	55.32	-20.00	28.30	47.02	74.00	18.68	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)
17997.500	56.60	-25.50	46.70	35.40	74.00	17.40	V
14498.500	51.29	-28.60	42.50	37.39	74.00	22.71	V
12373.500	47.01	-31.10	38.90	39.21	74.00	26.99	V
9538.500	44.32	-33.20	37.90	39.62	74.00	29.68	H
7830.000	42.95	-35.10	37.00	41.05	74.00	31.05	V
2390.000	64.37	-20.00	28.10	56.37	74.00	9.63	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)
17965.500	56.38	-25.50	46.70	35.18	74.00	17.62	H
14420.000	51.02	-28.60	42.50	37.12	74.00	22.98	H
12093.000	47.02	-31.60	39.00	39.62	74.00	26.98	H
8881.500	44.78	-33.50	38.10	40.18	74.00	29.22	V
7460.500	43.32	-35.20	36.70	41.72	74.00	30.68	H
4770.000	39.09	-37.30	33.00	43.29	74.00	34.91	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)
17968.500	56.11	-25.50	46.70	34.91	74.00	17.89	V
14372.000	51.33	-28.40	42.30	37.43	74.00	22.67	V
12980.500	47.62	-30.50	39.20	38.92	74.00	26.38	H
9469.000	44.81	-32.90	37.90	39.81	74.00	29.19	H
7442.500	43.12	-35.20	36.70	41.52	74.00	30.88	V
2485.100	66.69	-20.00	28.30	58.39	74.00	7.31	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17923.500	56.33	-25.50	46.70	35.13	74.00	17.67	V
14473.500	52.00	-28.60	42.50	38.10	74.00	22.00	H
12966.500	47.14	-30.50	39.20	38.44	74.00	26.86	V
9320.000	45.26	-33.90	38.00	41.16	74.00	28.74	V
7654.500	43.79	-34.70	36.90	41.49	74.00	30.21	H
2389.900	69.11	-20.00	28.10	61.11	74.00	4.89	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)
17994.000	57.18	-25.50	46.70	35.98	74.00	16.82	V
14400.500	51.16	-28.60	42.50	37.26	74.00	22.84	V
12769.500	47.15	-30.50	39.10	38.55	74.00	26.85	H
9516.500	44.71	-33.20	37.90	40.01	74.00	29.29	H
7918.500	43.26	-34.90	37.10	41.06	74.00	30.74	H
4594.000	39.63	-37.30	32.70	44.33	74.00	34.37	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)
17991.500	56.70	-25.50	46.70	35.50	74.00	17.30	V
14318.000	50.79	-28.40	42.30	36.89	74.00	23.21	H
12960.500	47.25	-30.50	39.20	38.55	74.00	26.75	V
9149.000	44.43	-33.80	38.10	40.23	74.00	29.57	V
7853.500	43.28	-34.90	37.10	41.08	74.00	30.72	V
2485.800	64.33	-20.00	28.30	56.03	74.00	9.67	H

Average
802.11b

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17986.000	45.62	-25.50	46.70	24.42	54.00	8.38	H
13632.500	40.63	-29.50	40.40	29.73	54.00	13.37	V
12938.500	35.58	-30.50	39.20	26.88	54.00	18.42	H
9067.500	32.70	-33.80	38.10	28.30	54.00	21.30	V
7563.000	31.29	-35.00	36.90	29.49	54.00	22.71	V
2389.000	41.85	-20.00	28.10	33.85	54.00	12.15	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)
17996.500	45.12	-25.50	46.70	23.92	54.00	8.88	H
14366.500	39.62	-28.40	42.30	25.72	54.00	14.38	V
12748.500	35.55	-30.50	39.10	26.95	54.00	18.45	H
9084.500	32.74	-33.80	38.10	28.34	54.00	21.26	V
7580.500	31.32	-35.00	36.90	29.52	54.00	22.68	V
4862.000	27.63	-37.50	33.10	31.93	54.00	26.37	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)
17988.500	45.41	-25.50	46.70	24.21	54.00	8.59	V
14512.500	39.80	-28.60	42.50	25.90	54.00	14.20	H
12647.500	35.62	-30.50	39.10	27.02	54.00	18.38	V
9518.500	32.81	-33.20	37.90	28.11	54.00	21.19	H
7981.500	31.40	-34.80	37.10	29.10	54.00	22.60	H
2487.100	42.13	-20.00	28.30	33.83	54.00	11.87	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)
17994.500	45.39	-25.50	46.70	24.19	54.00	8.61	V
14373.500	39.63	-28.40	42.30	25.73	54.00	14.37	V
12819.500	35.62	-30.70	39.10	27.12	54.00	18.38	V
8984.000	33.17	-33.30	38.20	28.27	54.00	20.83	H
7922.000	31.54	-34.90	37.10	29.34	54.00	22.46	H
2389.900	49.11	-20.00	28.10	41.11	54.00	4.89	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)
17988.500	45.44	-25.50	46.70	24.24	54.00	8.56	V
14409.500	39.83	-28.60	42.50	25.93	54.00	14.17	H
12977.000	35.53	-30.50	39.20	26.83	54.00	18.47	H
8975.000	32.96	-33.30	38.20	28.06	54.00	21.04	V
7423.500	31.32	-35.20	36.70	29.72	54.00	22.68	H
4947.000	27.41	-37.10	33.30	31.21	54.00	26.59	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)
17987.500	45.33	-25.50	46.70	24.13	54.00	8.67	V
14485.000	39.84	-28.60	42.50	25.94	54.00	14.16	V
12933.500	35.68	-30.50	39.20	26.98	54.00	18.32	H
9515.000	32.92	-33.20	37.90	28.22	54.00	21.08	V
7914.500	31.44	-34.90	37.10	29.24	54.00	22.56	V
2485.200	49.97	-20.00	28.30	41.67	54.00	4.03	H

802.11n-HT20

Ch1

Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
17997.500	45.15	-25.50	46.70	23.95	54.00	8.85	V
14472.000	39.68	-28.60	42.50	25.78	54.00	14.32	H
12867.000	35.42	-30.70	39.10	26.92	54.00	18.58	V
9940.000	32.81	-33.50	38.10	28.21	54.00	21.19	H
7999.500	31.56	-34.80	37.10	29.26	54.00	22.44	V
2390.000	50.16	-20.00	28.10	42.16	54.00	3.84	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)
17999.000	45.39	-25.50	46.70	24.19	54.00	8.61	H
14508.000	39.67	-28.60	42.50	25.77	54.00	14.33	H
12636.500	35.42	-31.00	39.00	27.52	54.00	18.58	H
8976.500	32.88	-33.30	38.20	27.98	54.00	21.12	V
7999.500	31.56	-34.80	37.10	29.26	54.00	22.44	H
4949.000	27.73	-37.10	33.30	31.53	54.00	26.27	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)
17997.000	45.64	-25.50	46.70	24.44	54.00	8.36	H
14317.500	39.86	-28.40	42.30	25.96	54.00	14.14	H
12759.500	35.71	-30.50	39.10	27.11	54.00	18.29	H
9181.000	32.98	-33.80	38.10	28.78	54.00	21.02	V
7926.500	31.51	-34.80	37.10	29.21	54.00	22.49	H
2485.000	47.17	-20.00	28.30	38.87	54.00	6.83	H

Test graphs as below:

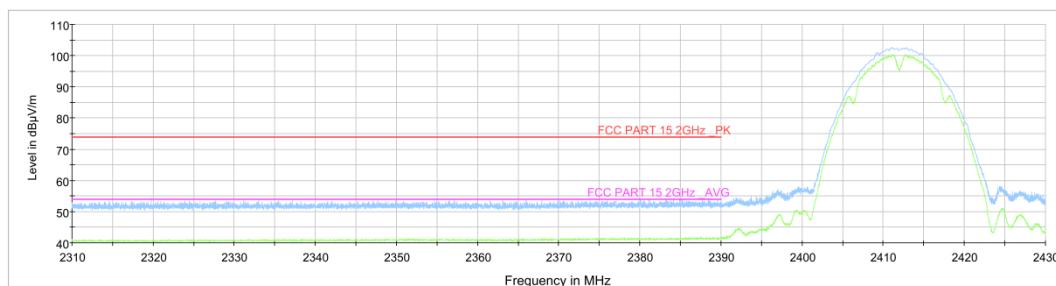


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz - 2.45GHz

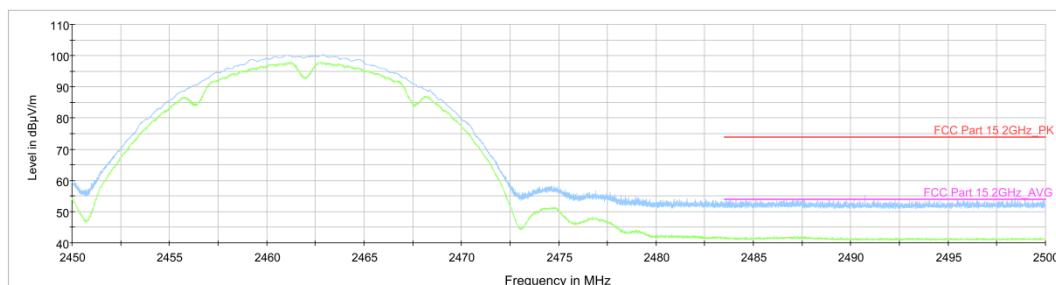


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

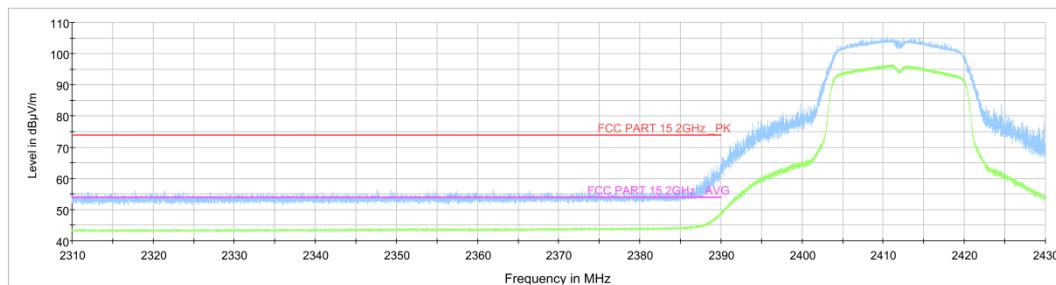


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz

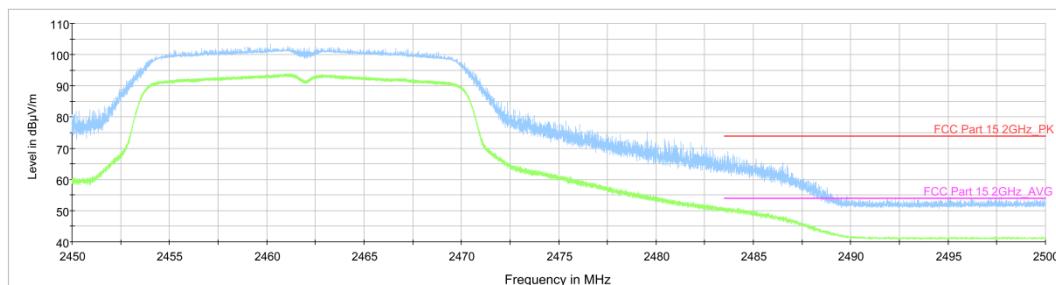
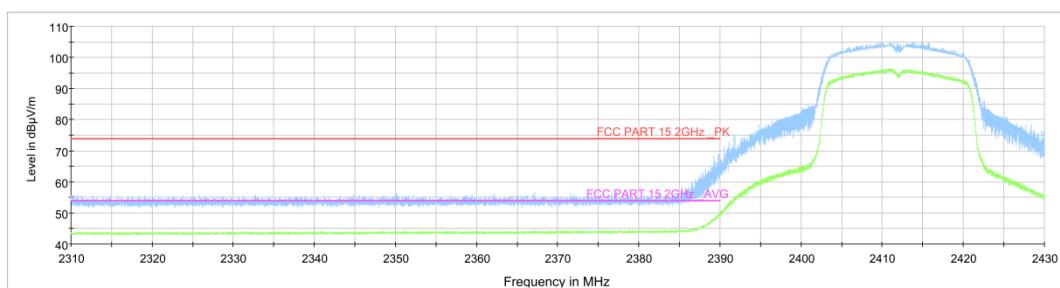
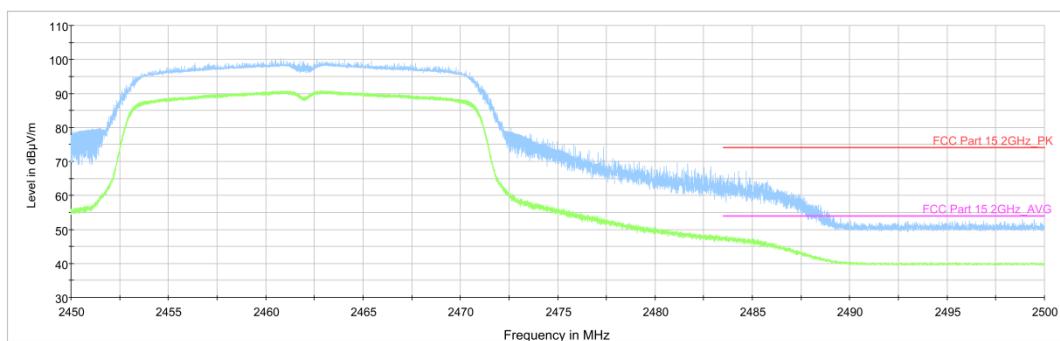


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz



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



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

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.

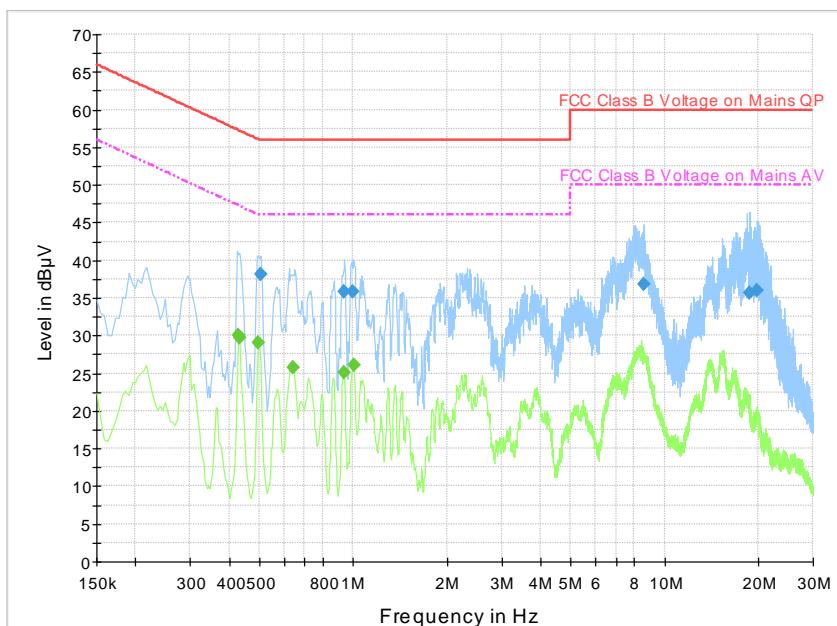
WLAN (Average Limit)

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:

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

Measurement results for :
Result for Traffic:

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

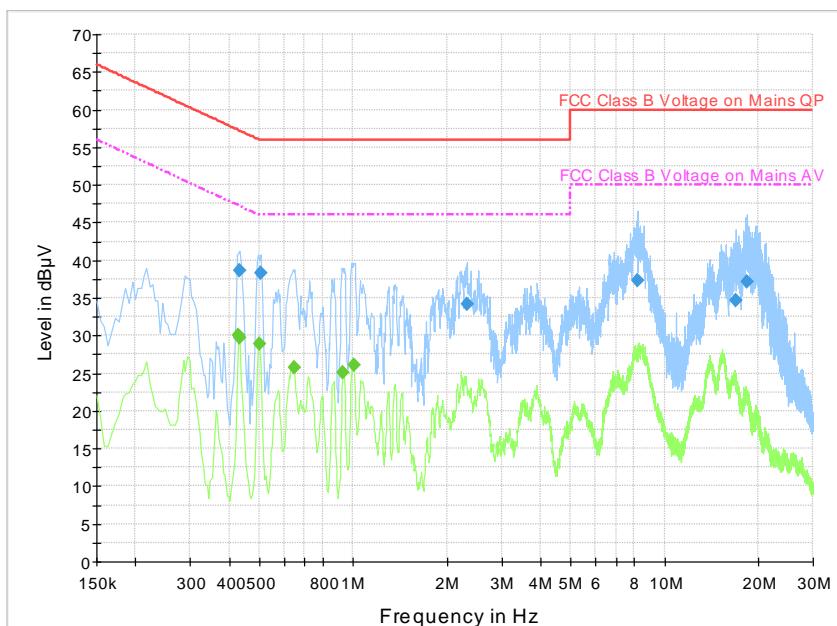
Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency(MHz)	QuasiPeak(dB μ V)	Line	Margin(dB)	Limit(dB μ V)
0.505500	38.2	N	17.8	56.0
0.937500	35.8	N	20.2	56.0
1.000500	35.9	L1	20.1	56.0
8.556000	36.9	N	23.1	60.0
18.699000	35.7	L1	24.3	60.0
19.914000	36.0	N	24.0	60.0

Final Result 2

Frequency(MHz)	Average(dB μ V)	Line	Margin(dB)	Limit(dB μ V)
0.429000	30.1	N	17.2	47.3
0.433500	29.7	L1	17.5	47.2
0.496500	29.0	L1	17.1	46.1
0.640500	25.8	N	20.2	46.0
0.933000	25.2	L1	20.8	46.0
1.005000	26.0	L1	20.0	46.0

Measurement results for :
Result for Idle:

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)	Line	Margin(dB)	Limit(dB μ V)
0.433500	38.6	N	18.6	57.2
0.505500	38.2	L1	17.8	56.0
2.319000	34.2	N	21.8	56.0
8.182500	37.2	L1	22.8	60.0
17.016000	34.6	N	25.4	60.0
18.379500	37.2	N	22.8	60.0

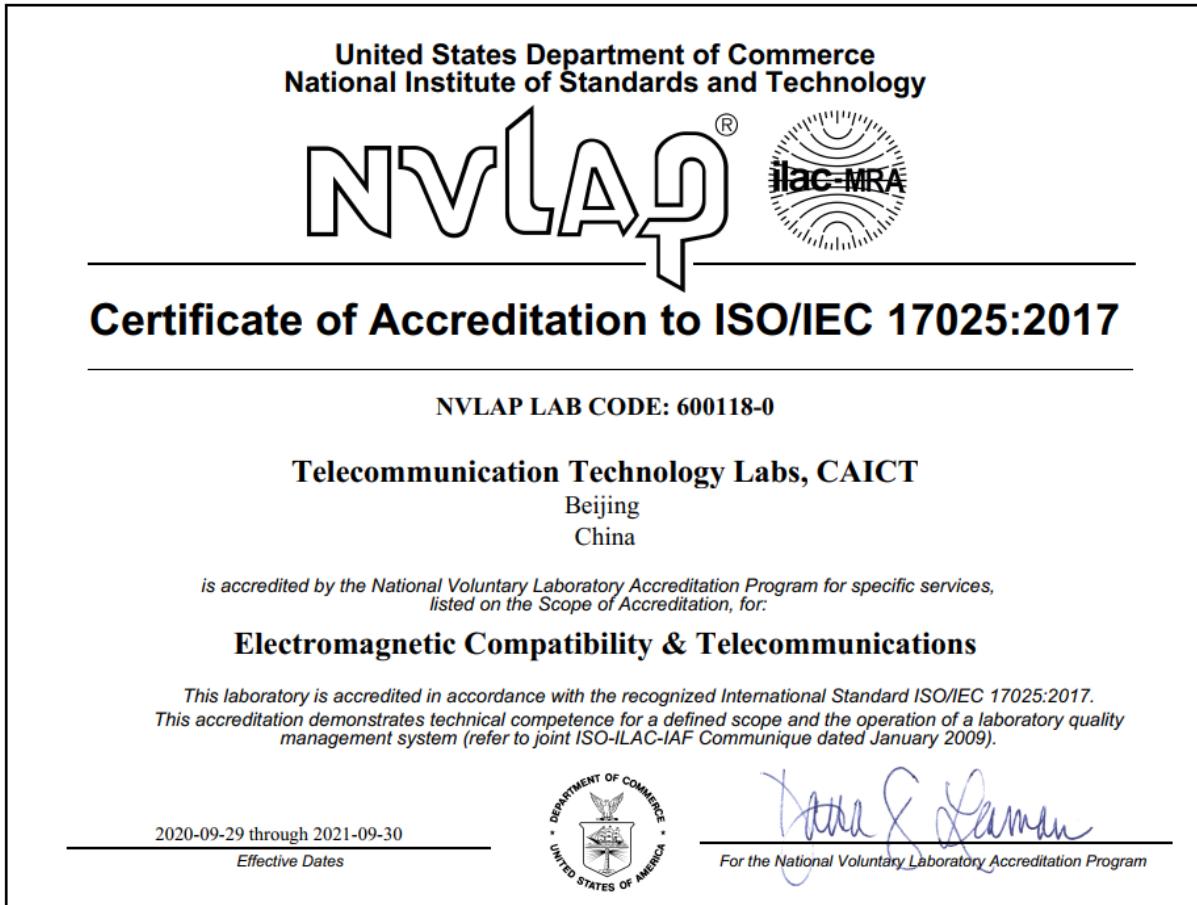
Final Result 2

Frequency(MHz)	Average(dB μ V)	Line	Margin(dB)	Limit(dB μ V)
0.429000	30.1	N	17.1	47.3
0.433500	29.7	L1	17.5	47.2
0.501000	28.9	N	17.1	46.0
0.645000	25.8	L1	20.2	46.0
0.928500	25.1	L1	20.9	46.0
1.005000	26.0	N	20.0	46.0

ANNEX B: EUT parameters

Disclaimer: The antenna gain 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



END OF REPORT