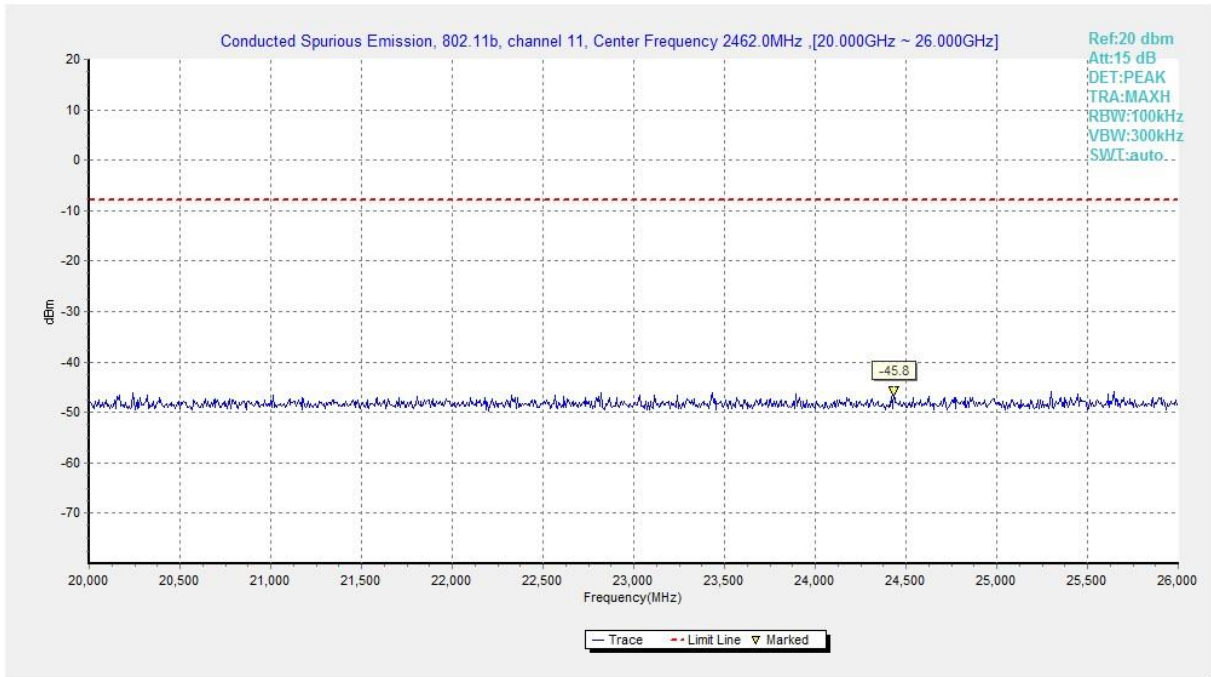
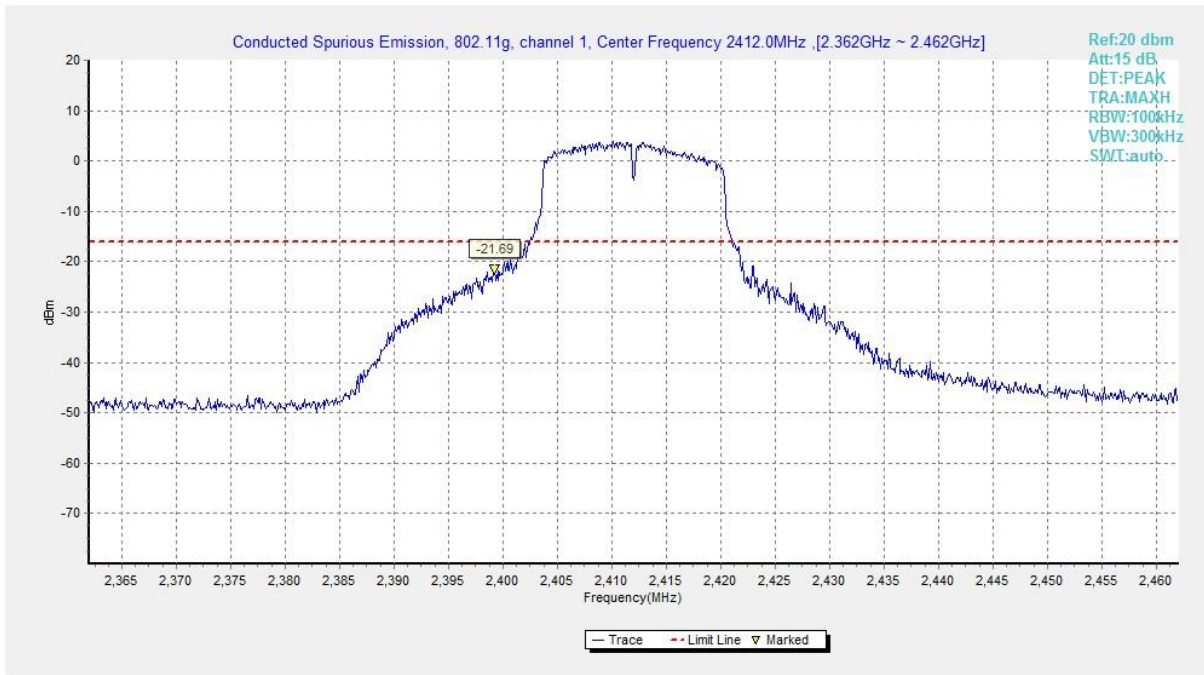


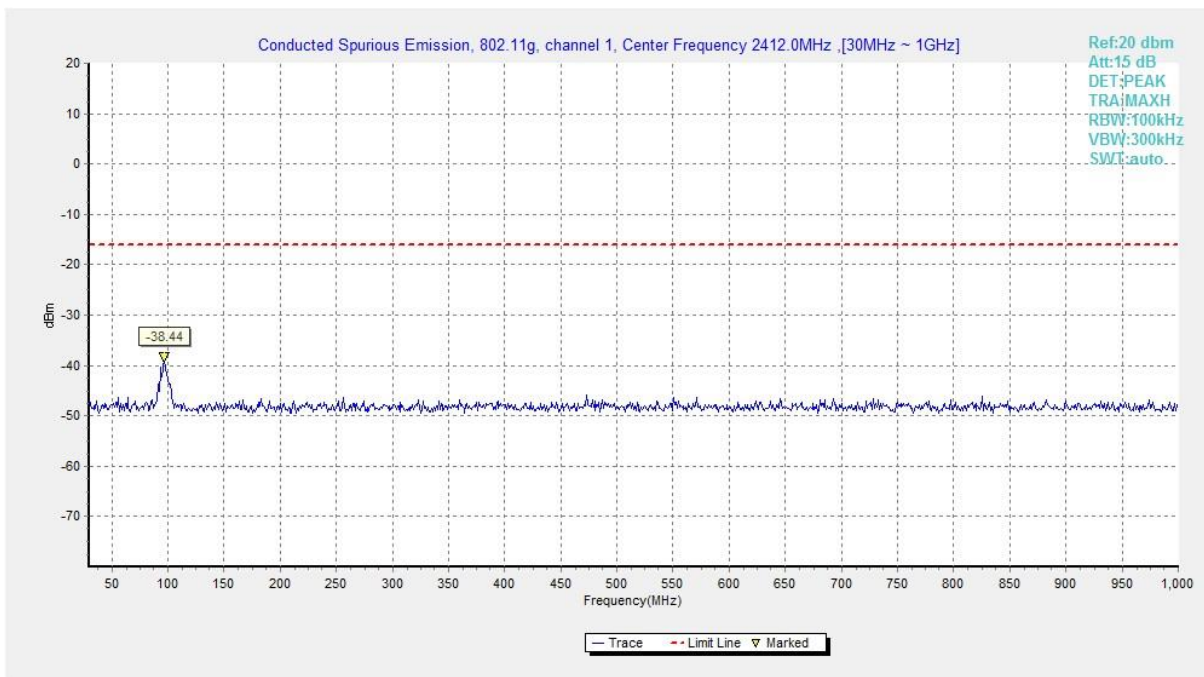
**Fig.A.6.1.23 Transmitter Spurious Emission - Conducted (802.11b, Ch11, 15 GHz-20 GHz)**



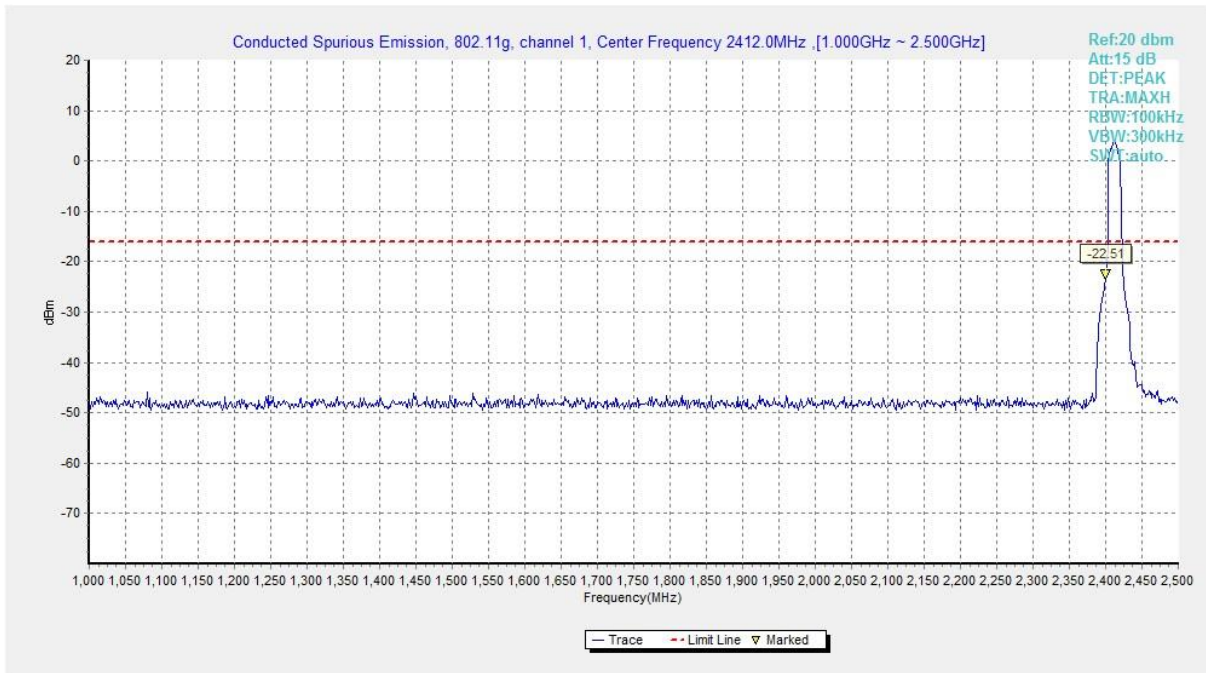
**Fig.A.6.1.24 Transmitter Spurious Emission - Conducted (802.11b, Ch11, 20 GHz-26 GHz)**



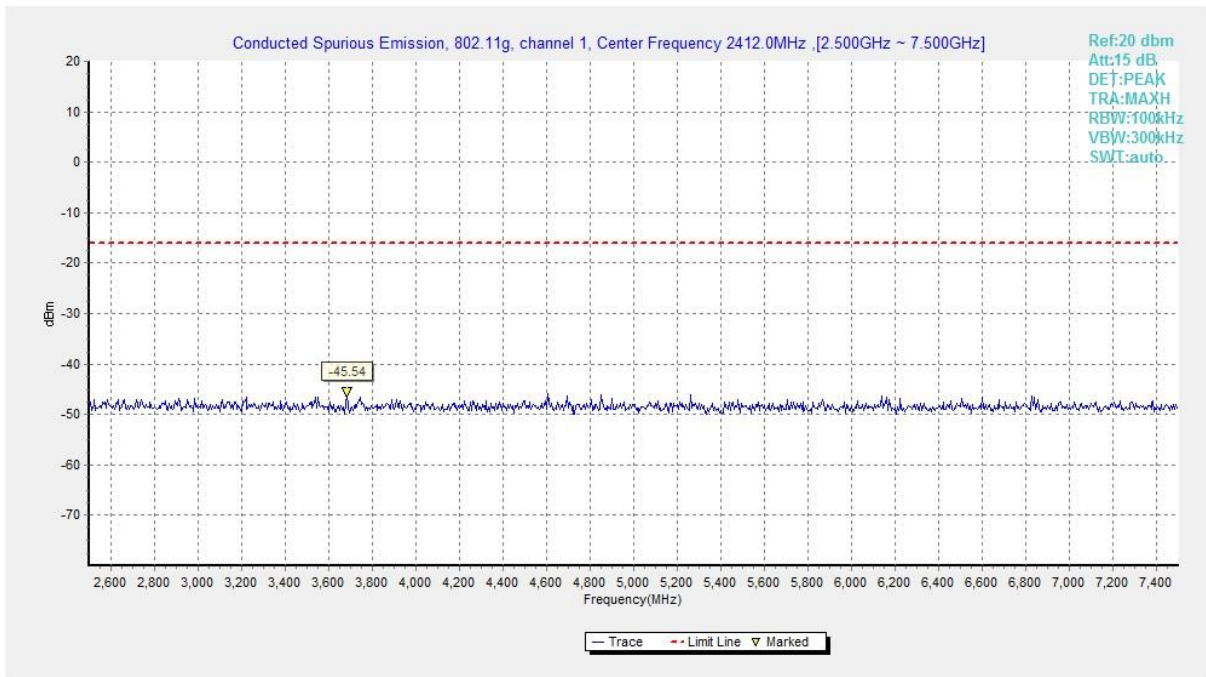
**Fig.A.6.1.25 Transmitter Spurious Emission - Conducted (802.11g, Ch1, Center Frequency)**



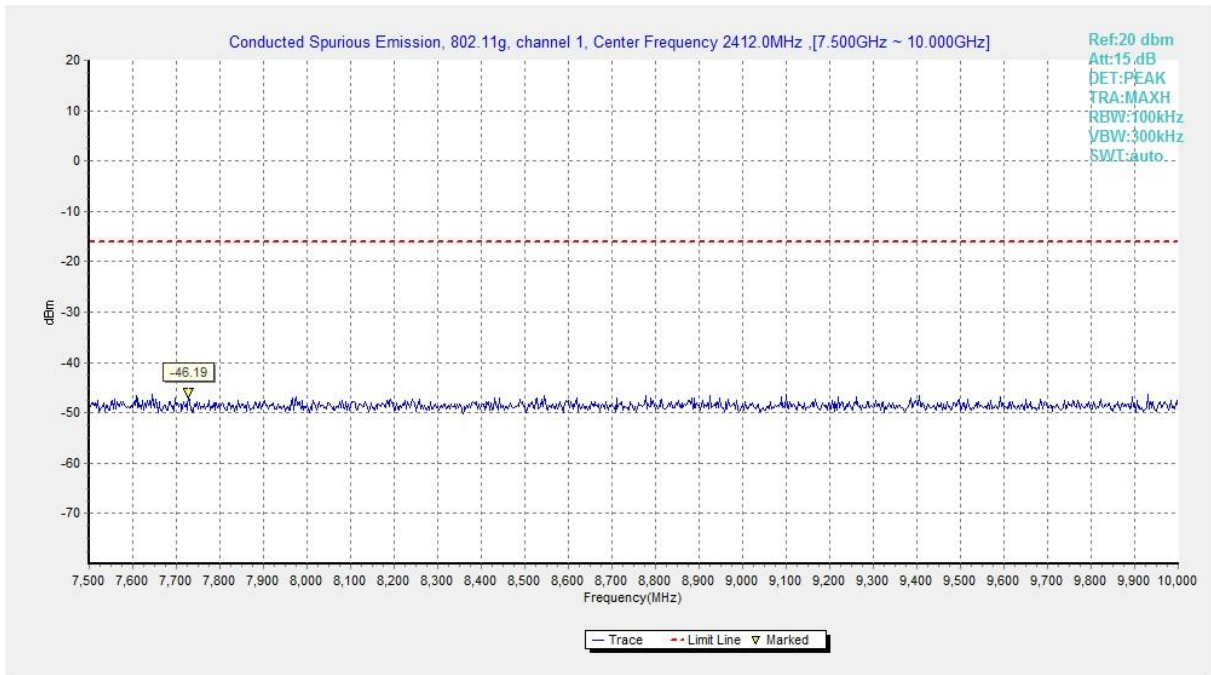
**Fig.A.6.1.26 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 30 MHz-1 GHz)**



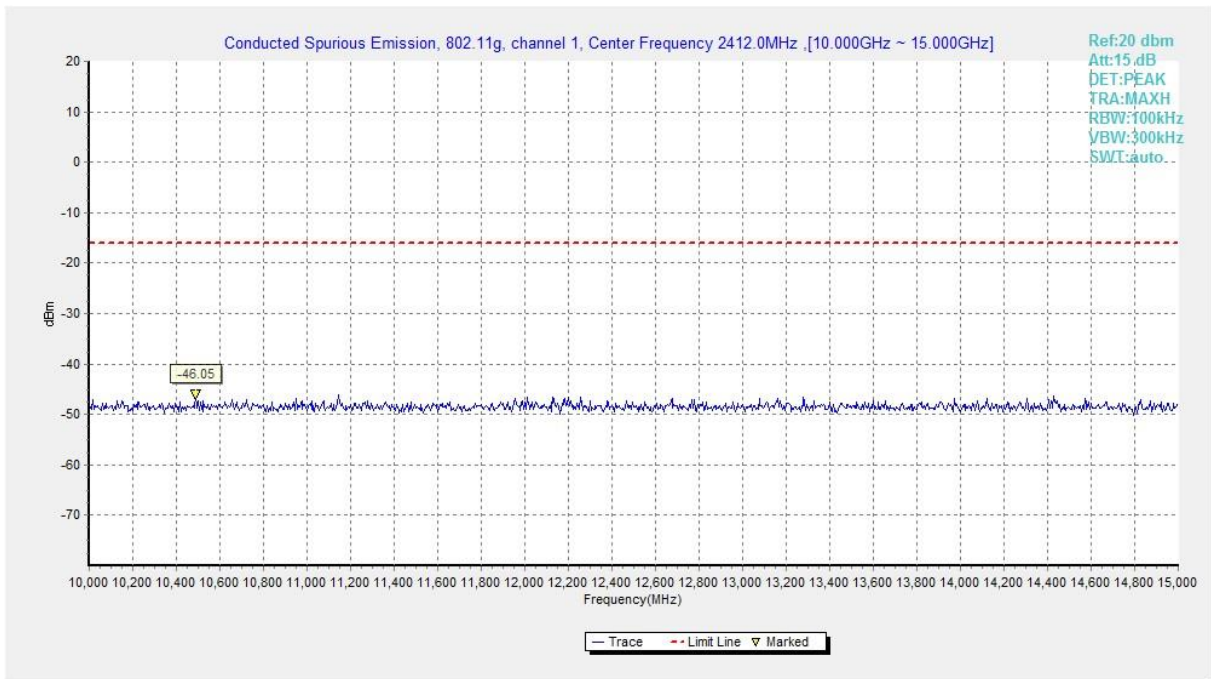
**Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 1 GHz-2.5 GHz)**



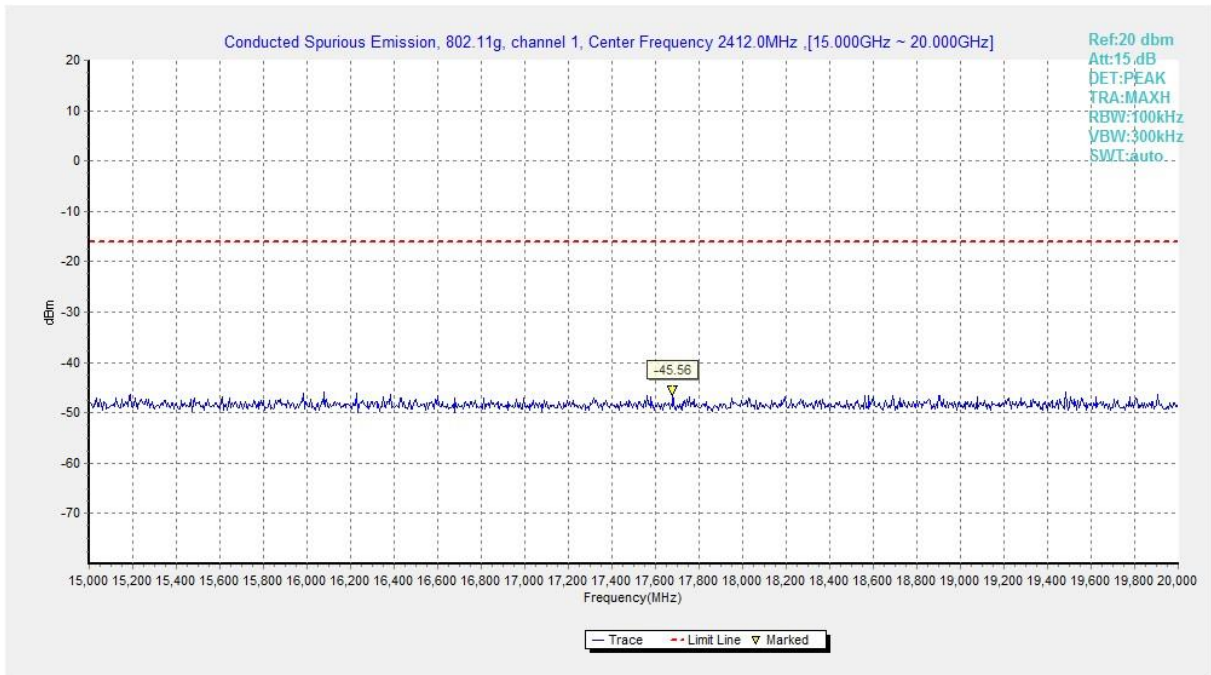
**Fig.A.6.1.28 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 2.5 GHz-7.5 GHz)**



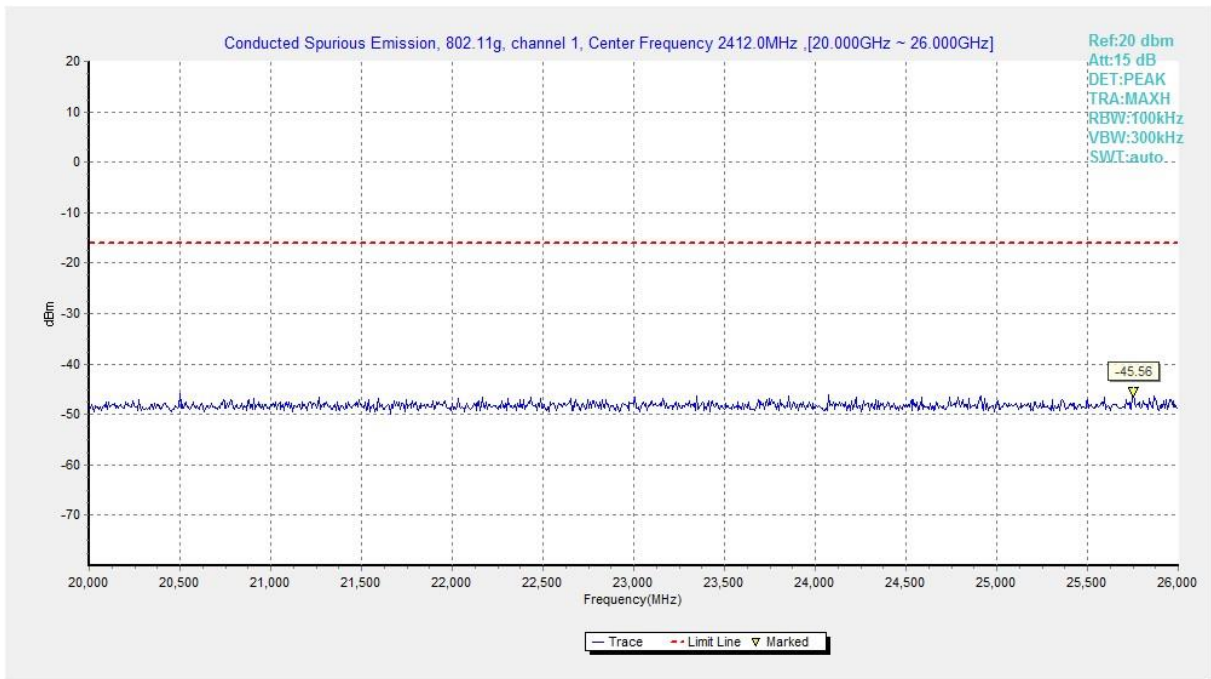
**Fig.A.6.1.29 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 7.5 GHz-10 GHz)**



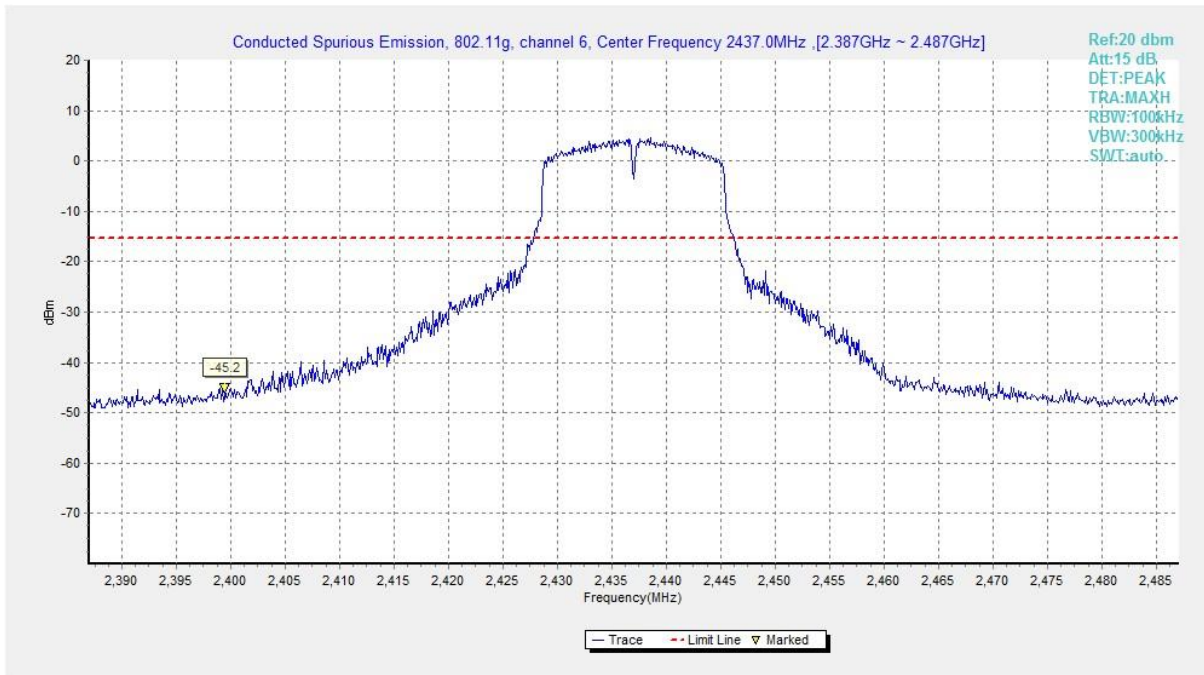
**Fig.A.6.1.30 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 10 GHz-15 GHz)**



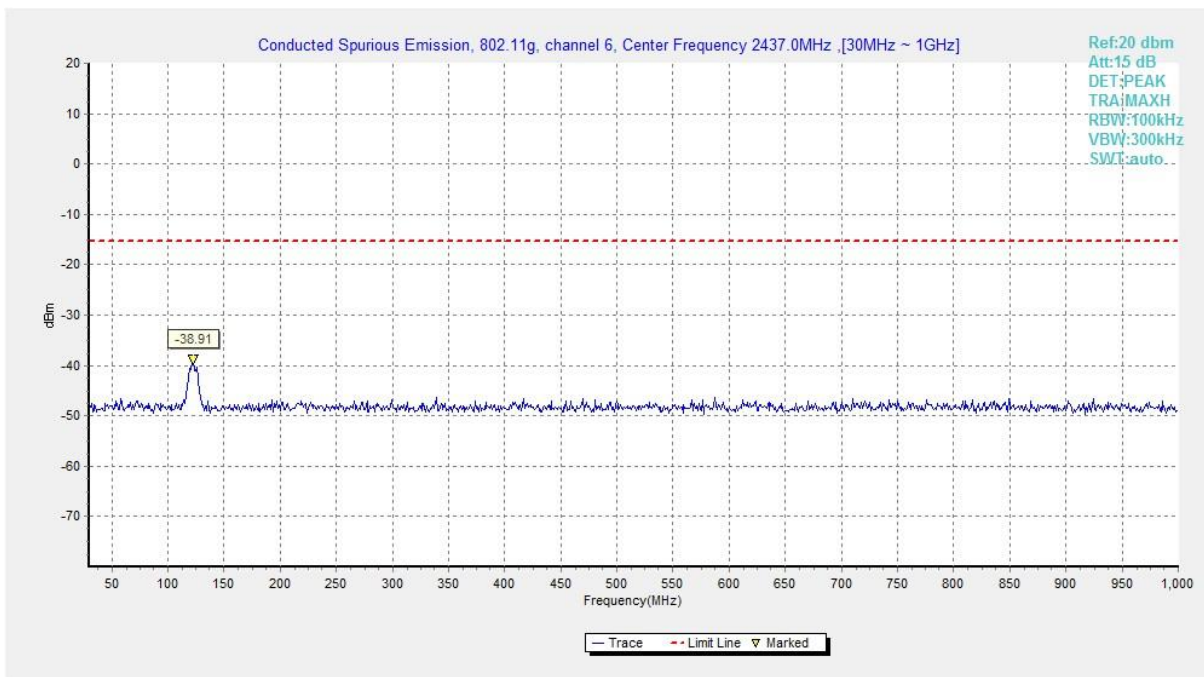
**Fig.A.6.1.31 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 15 GHz-20 GHz)**



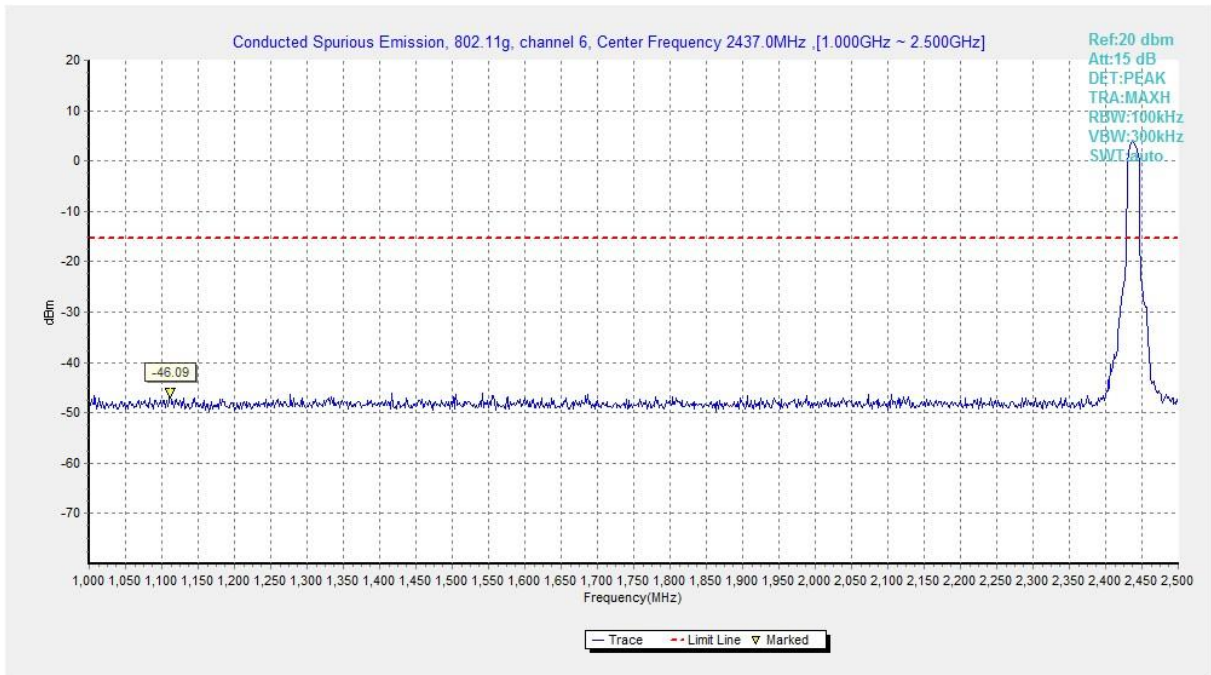
**Fig.A.6.1.32 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 20 GHz-26 GHz)**



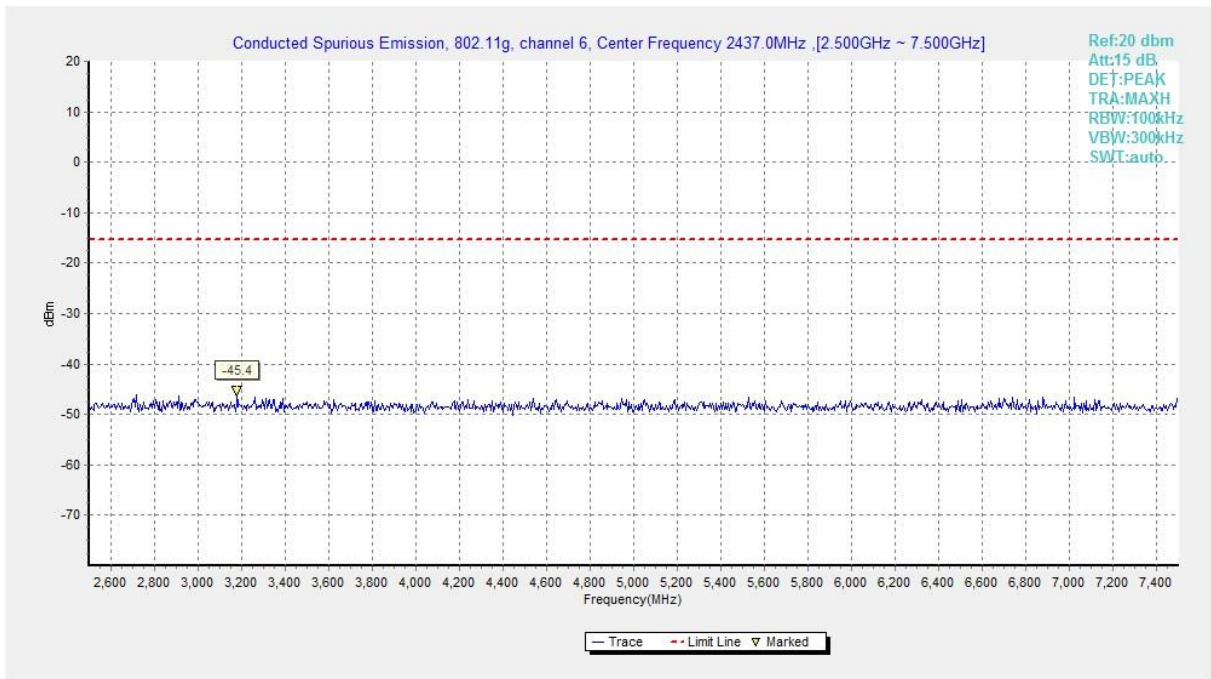
**Fig.A.6.1.33 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)**



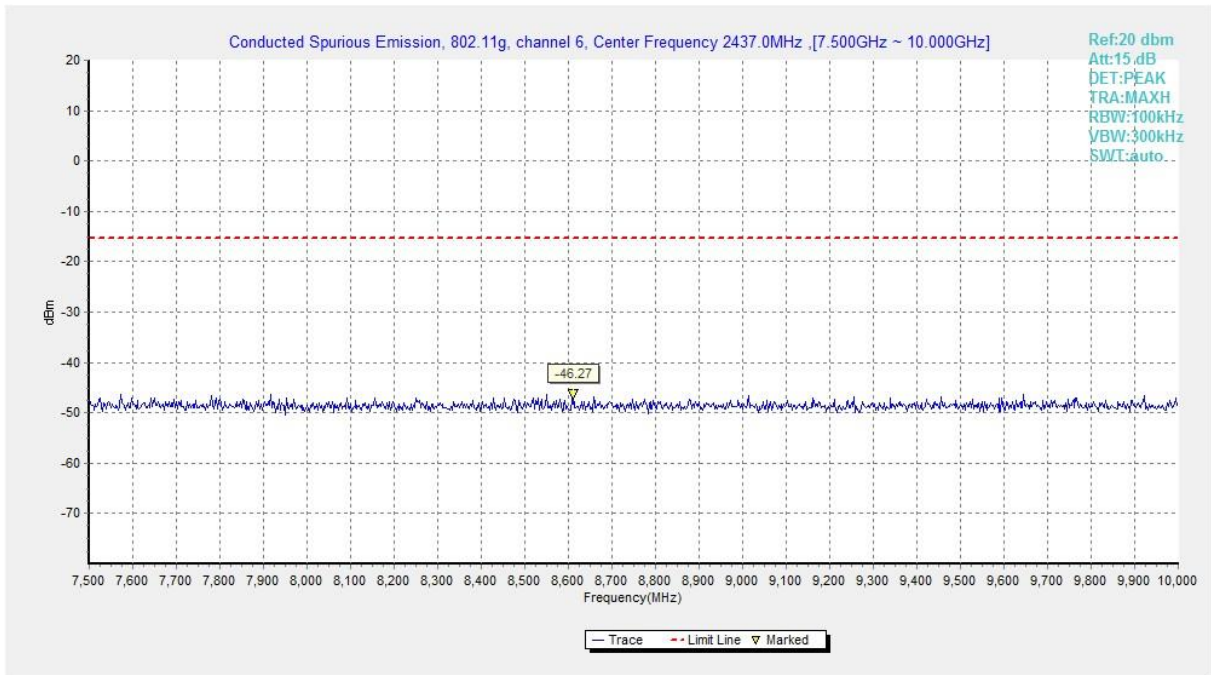
**Fig.A.6.1.34 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-1 GHz)**



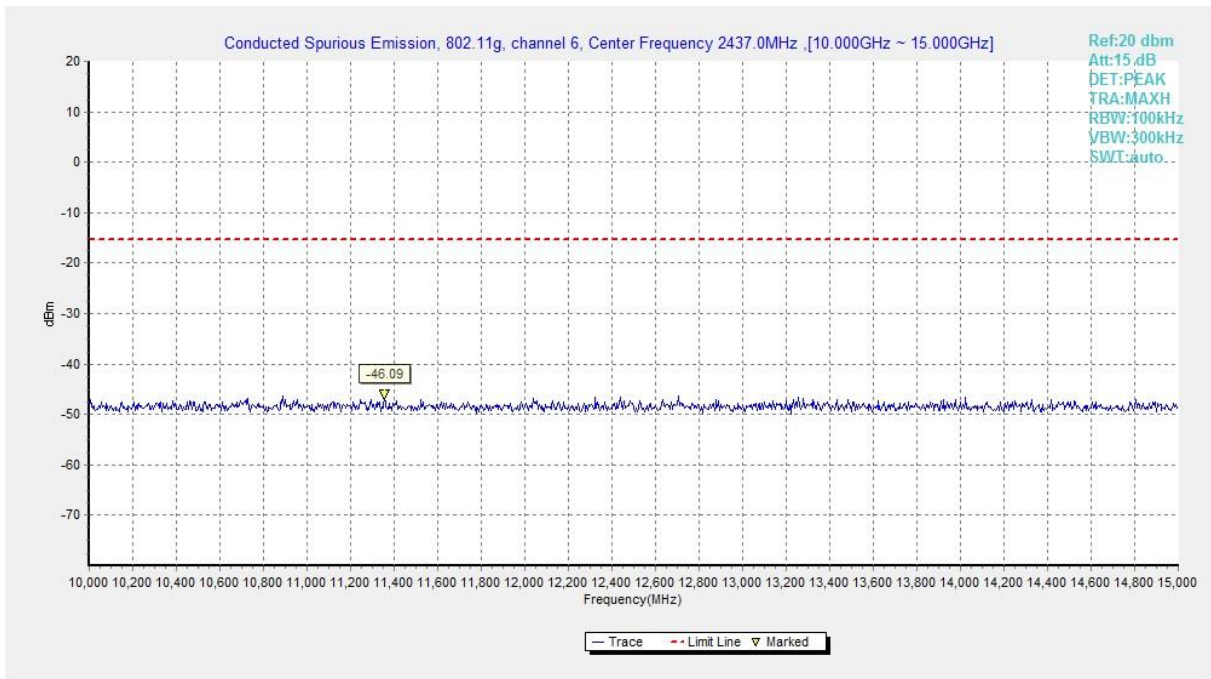
**Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)**



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

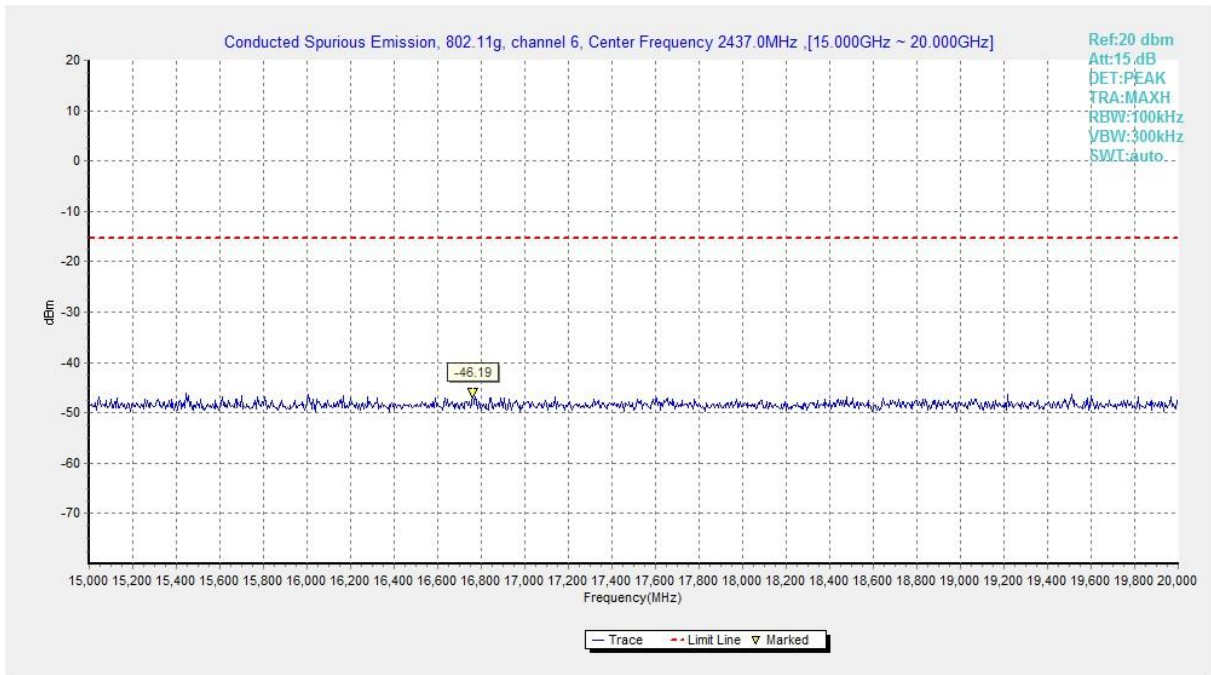


**Fig.A.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)**

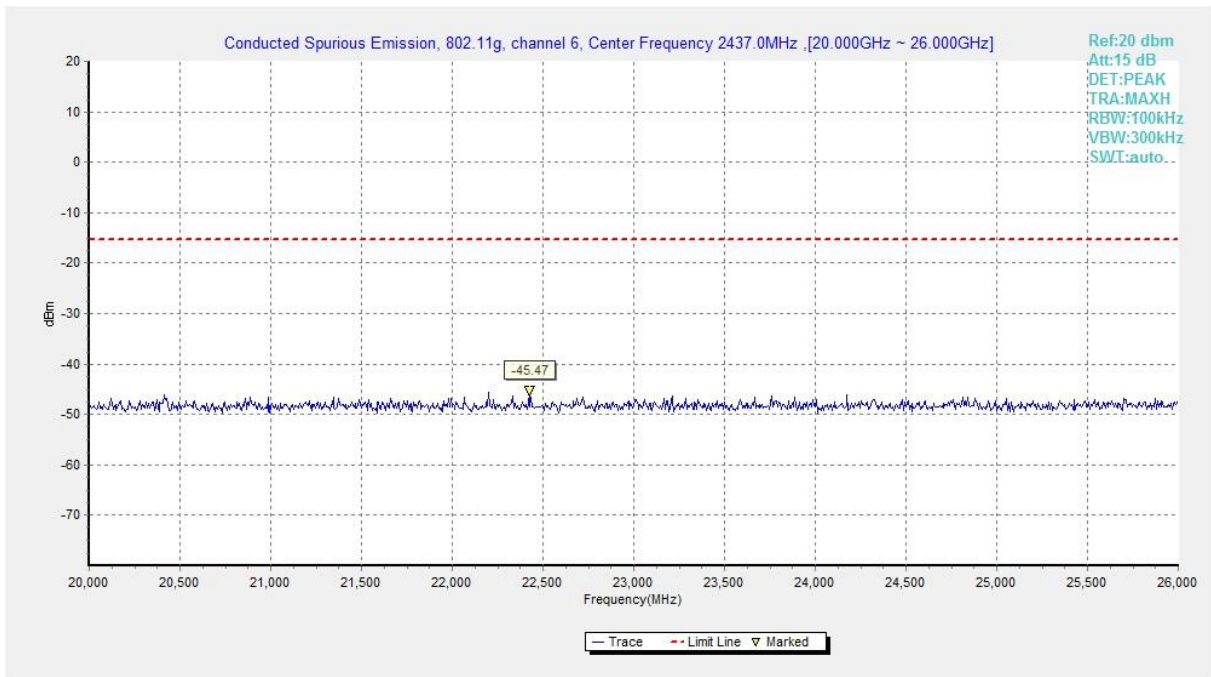


**Fig.A.6.1.38 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 10 GHz-15 GHz)**

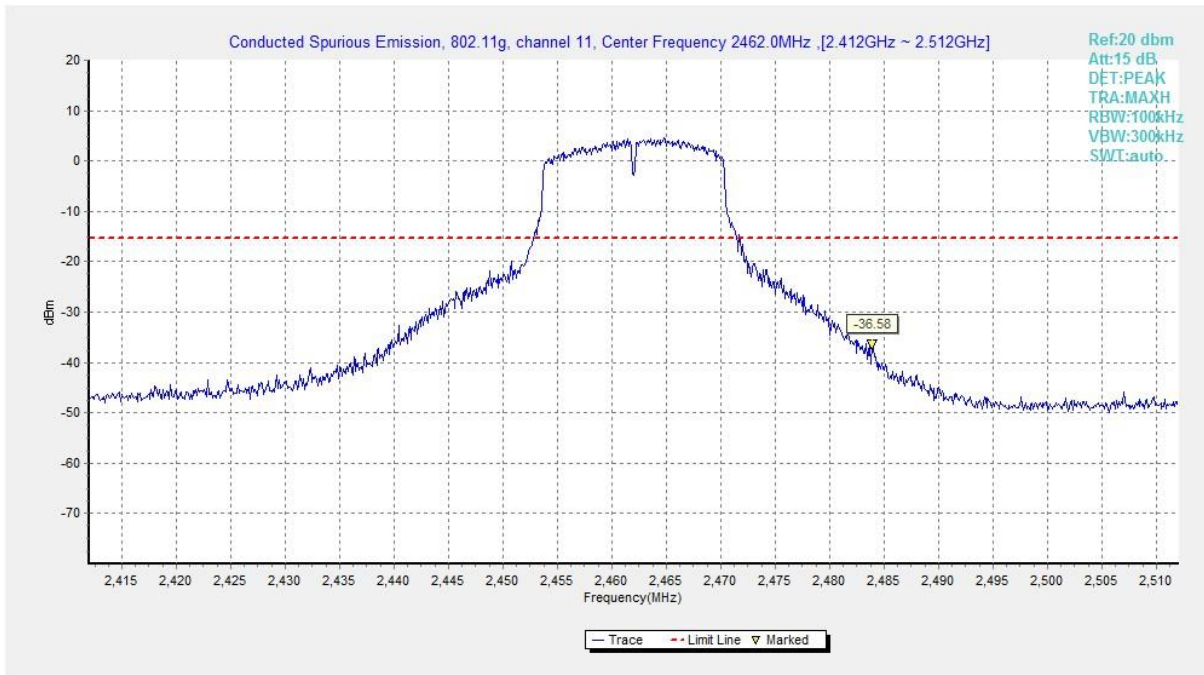




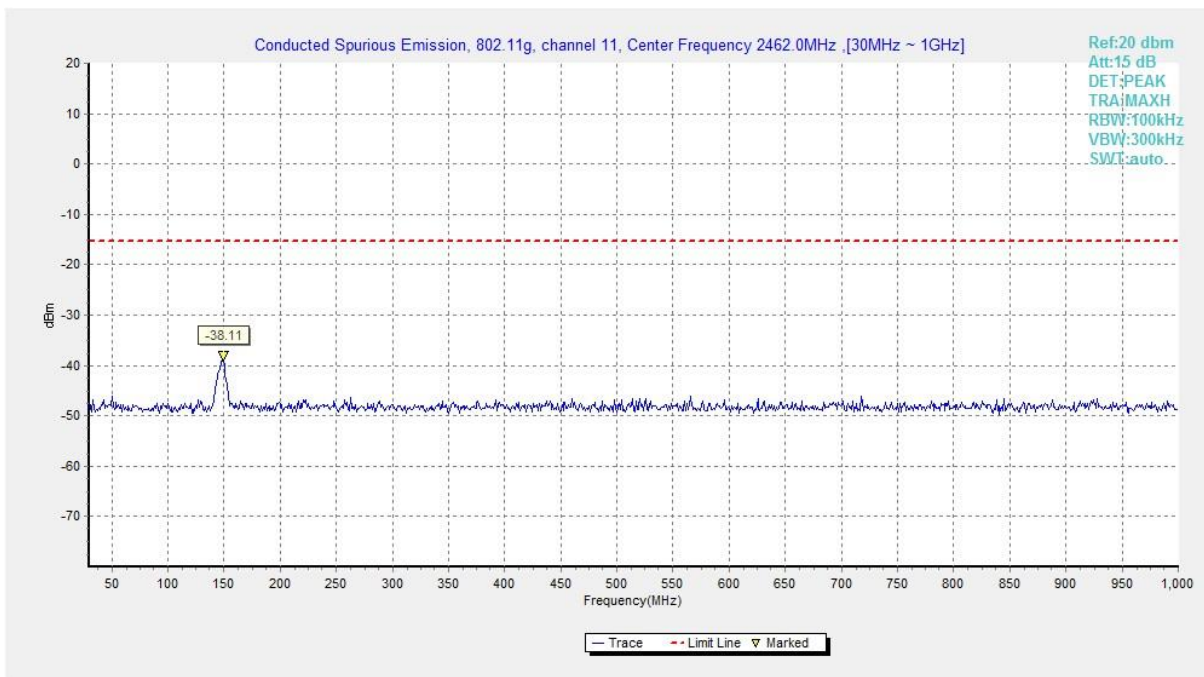
**Fig.A.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)**



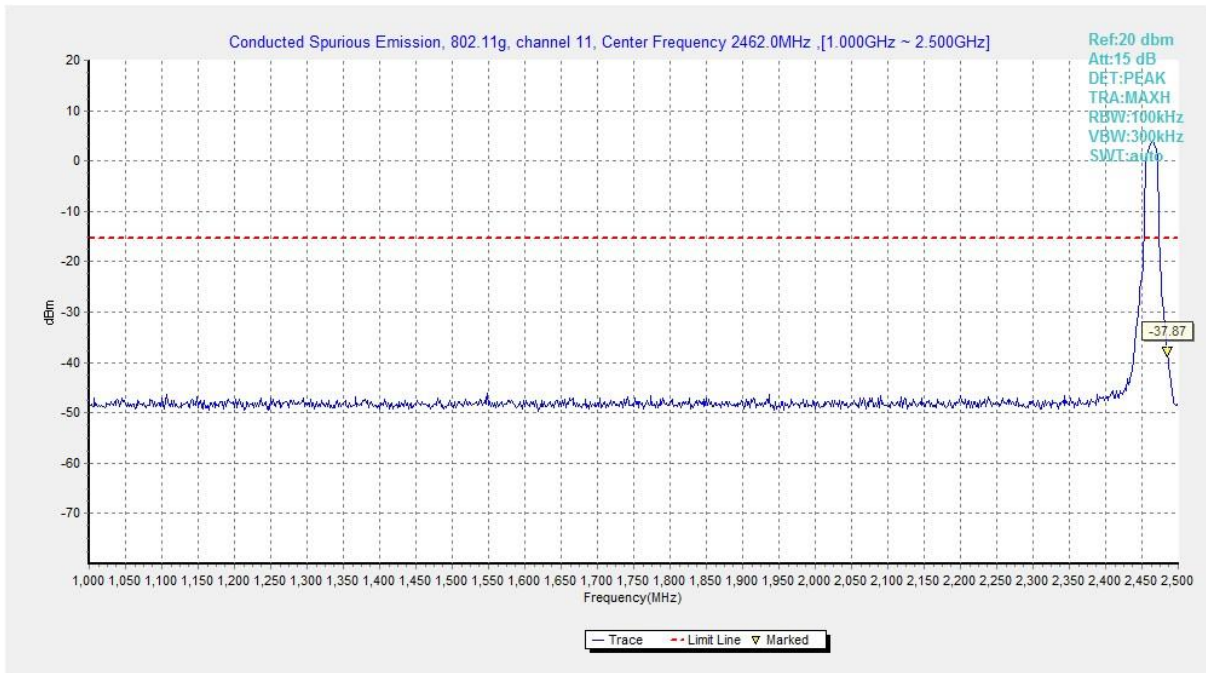
**Fig.A.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)**



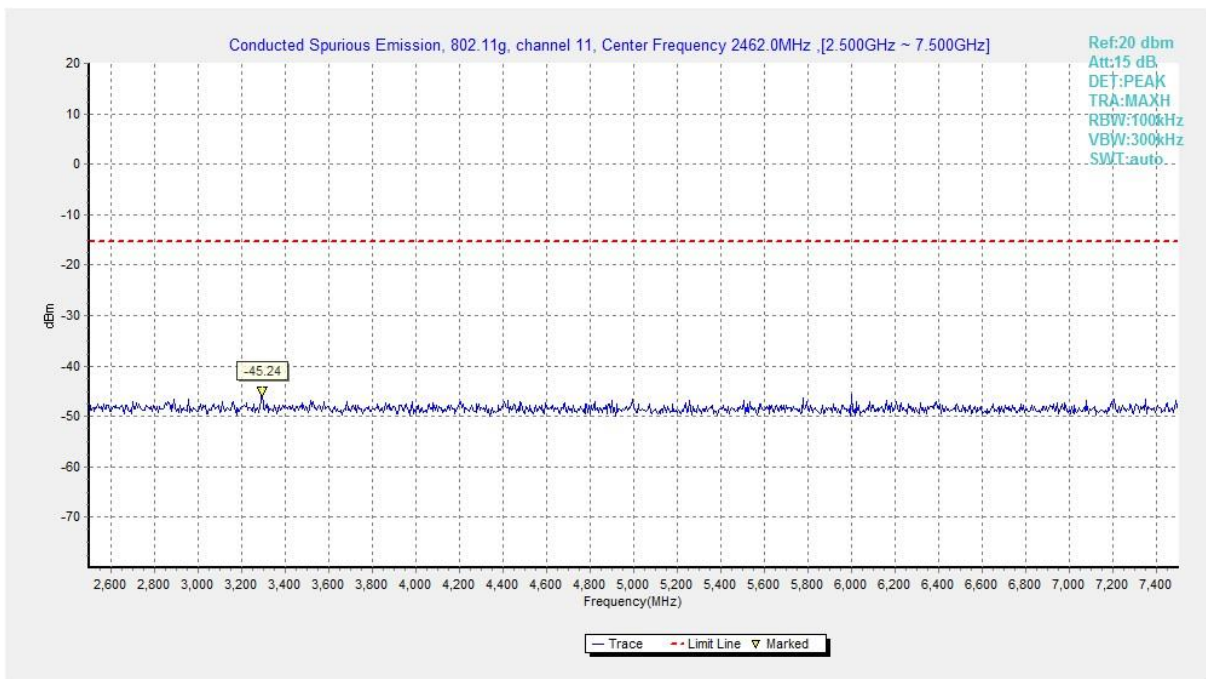
**Fig.A.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)**



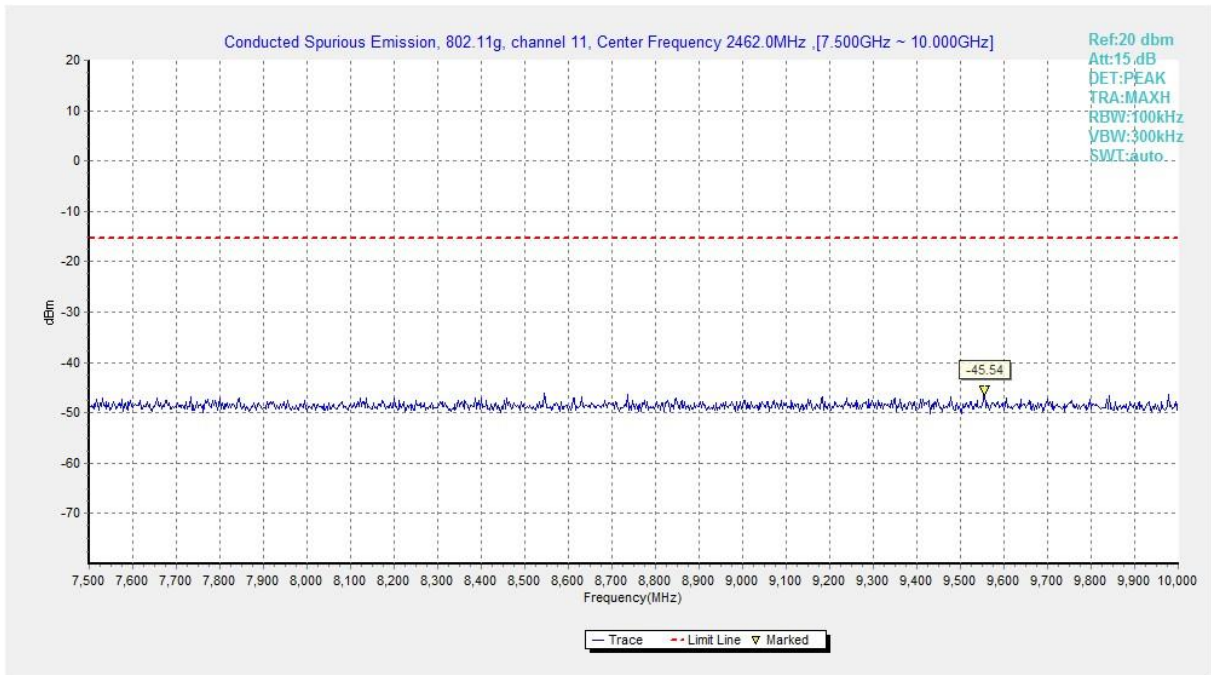
**Fig.A.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)**



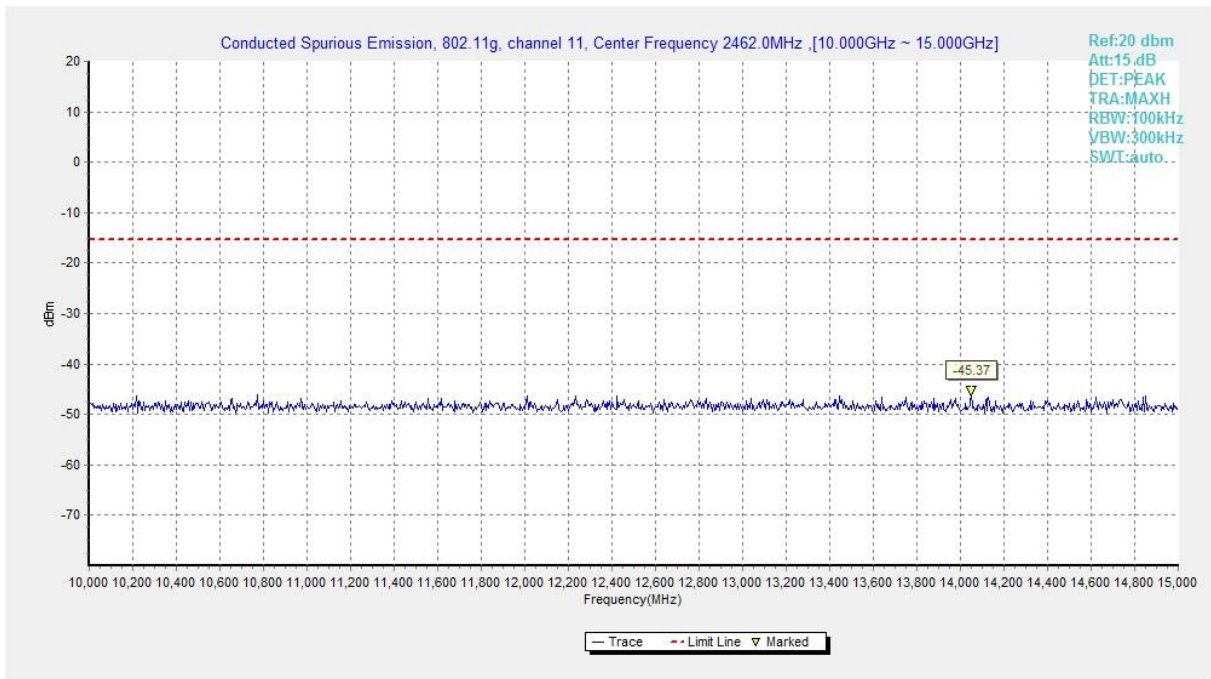
**Fig.A.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)**



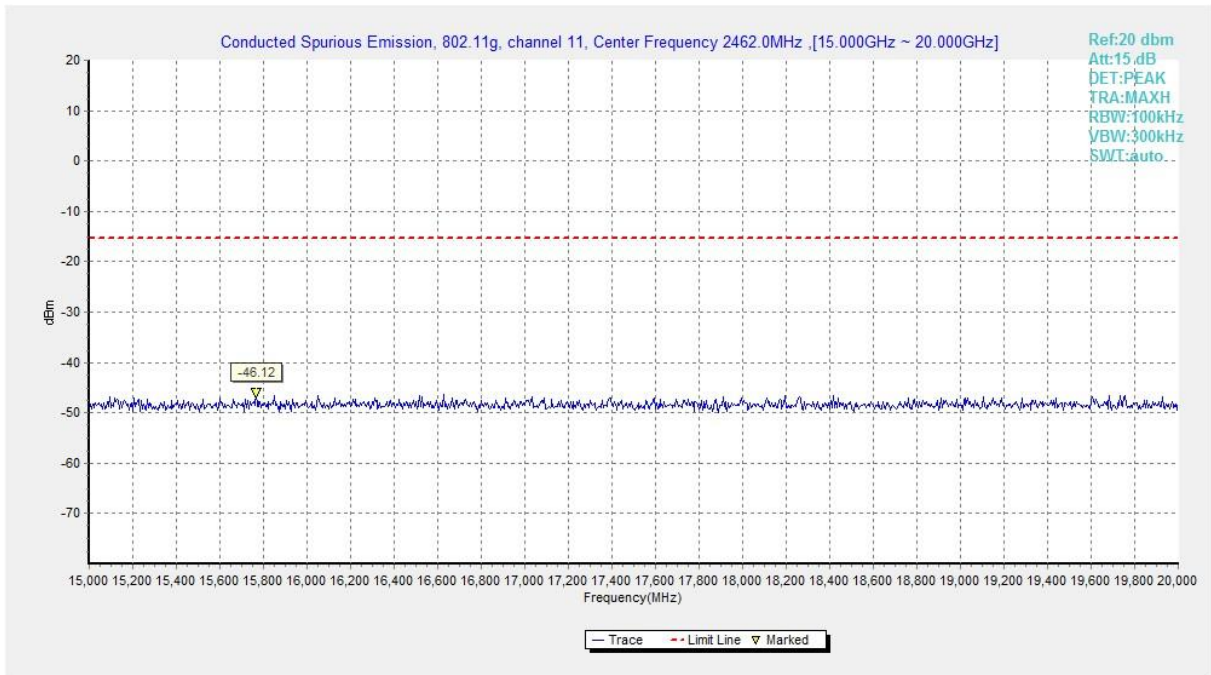
**Fig.A.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)**



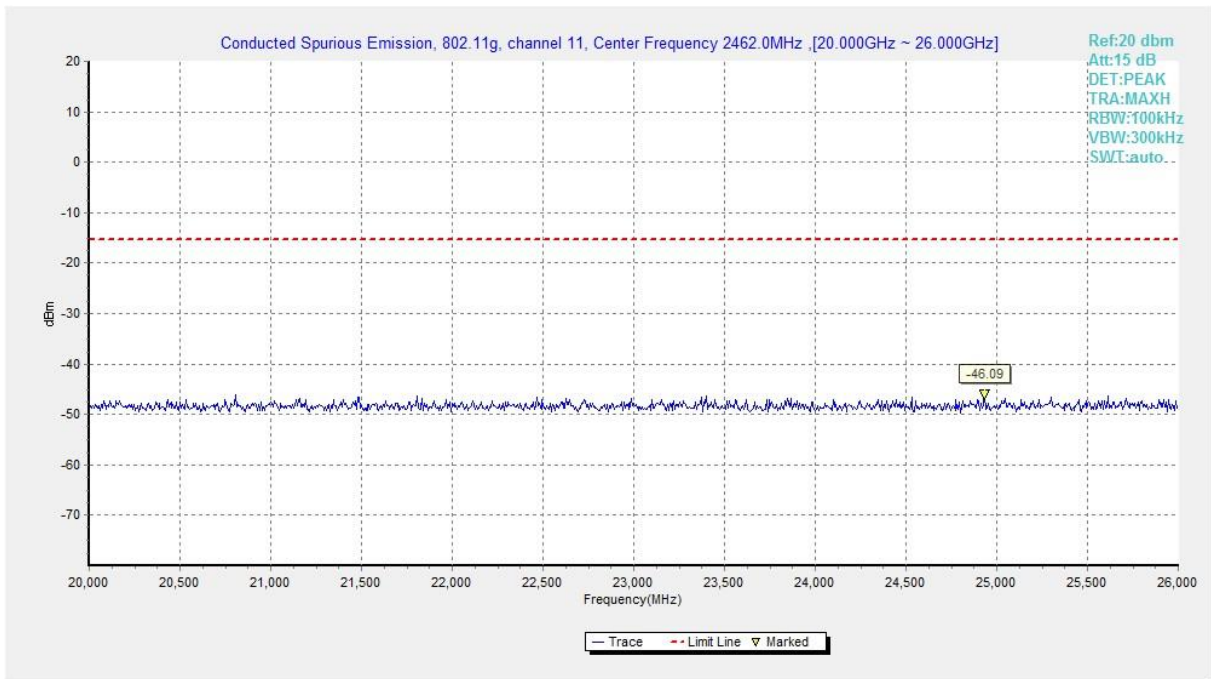
**Fig.A.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)**



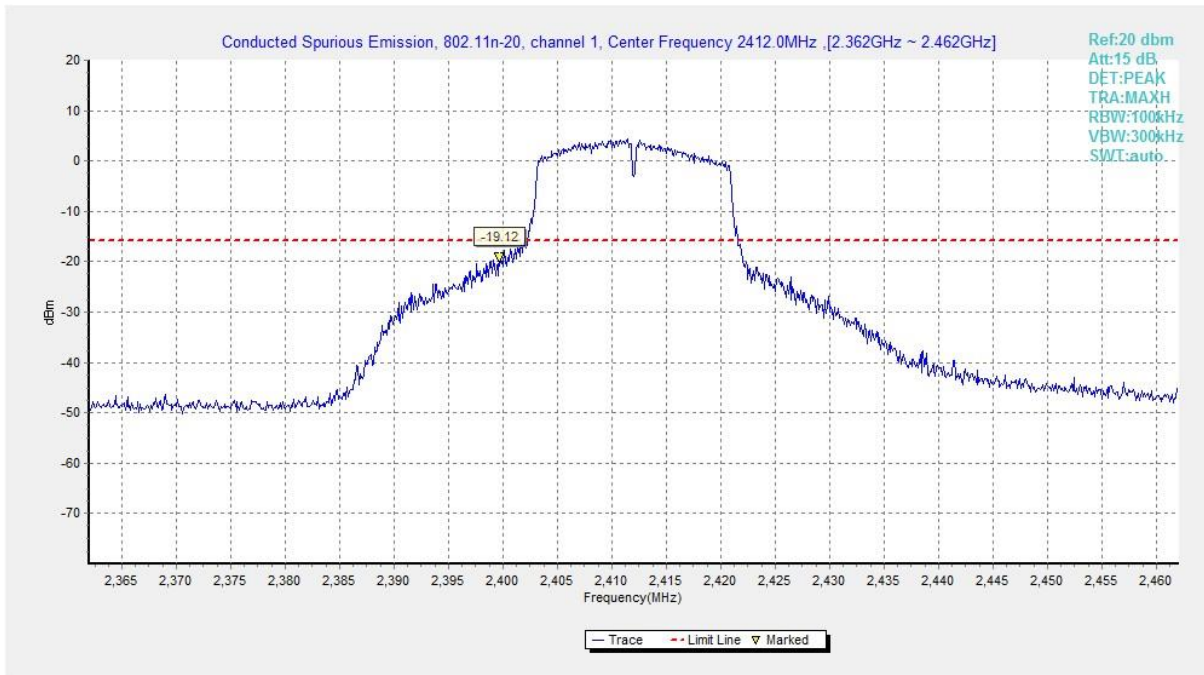
**Fig.A.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)**



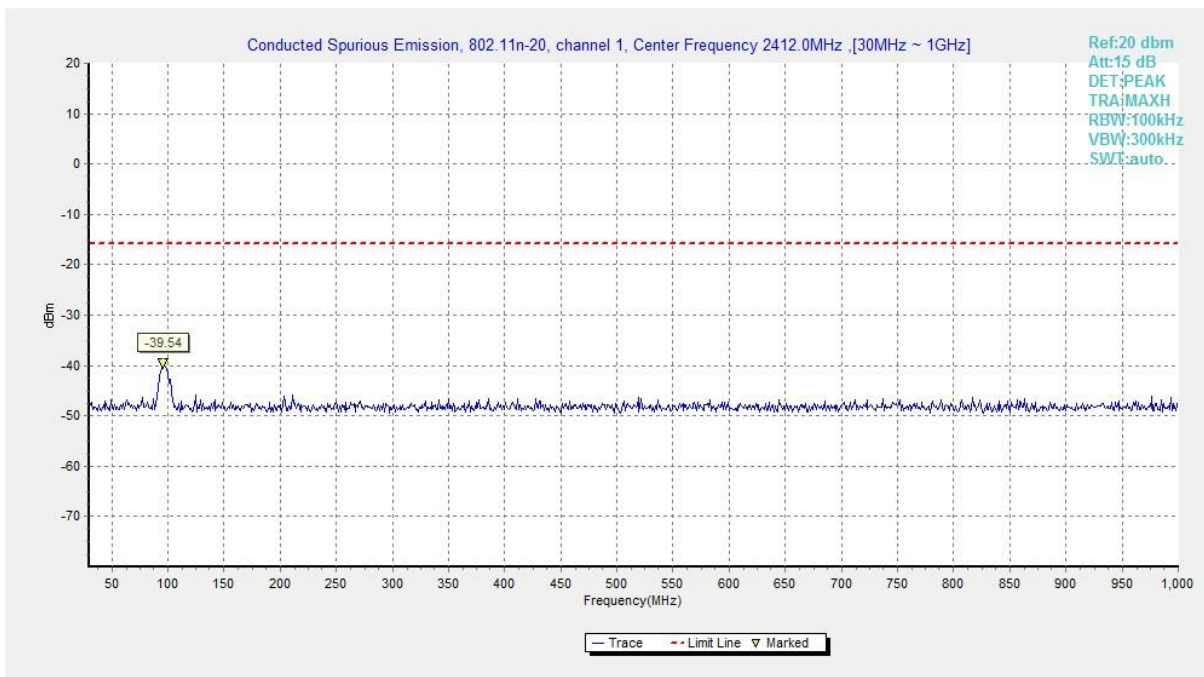
**Fig.A.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)**



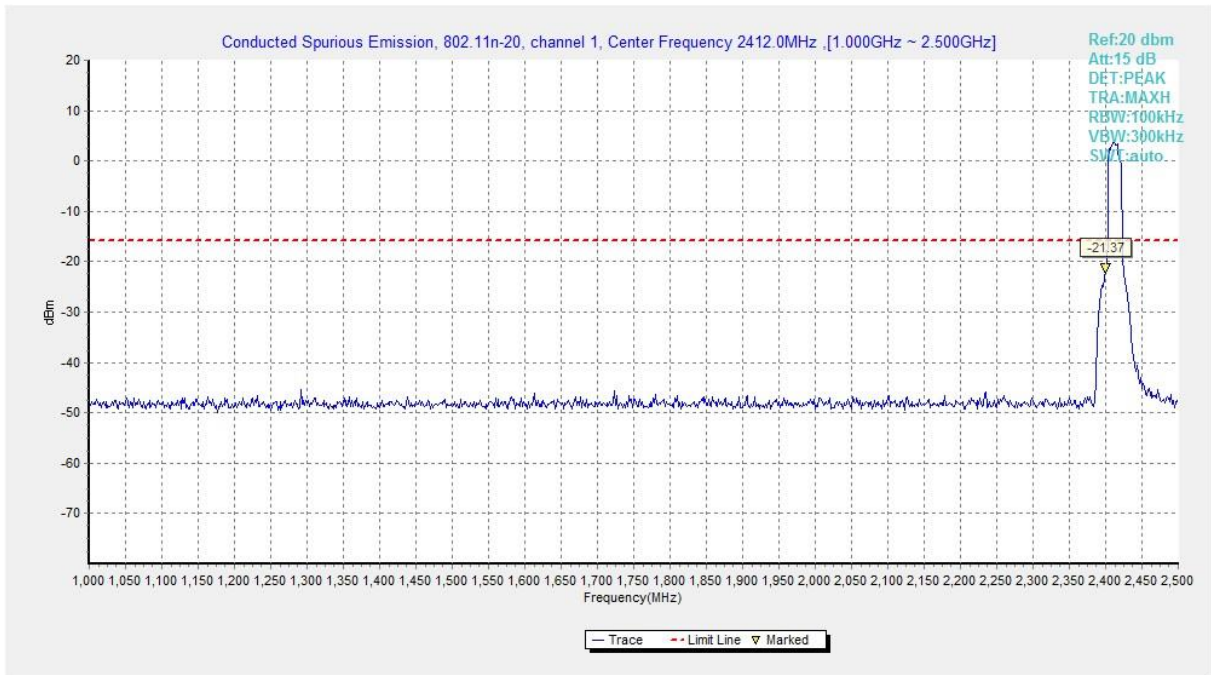
**Fig.A.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)**



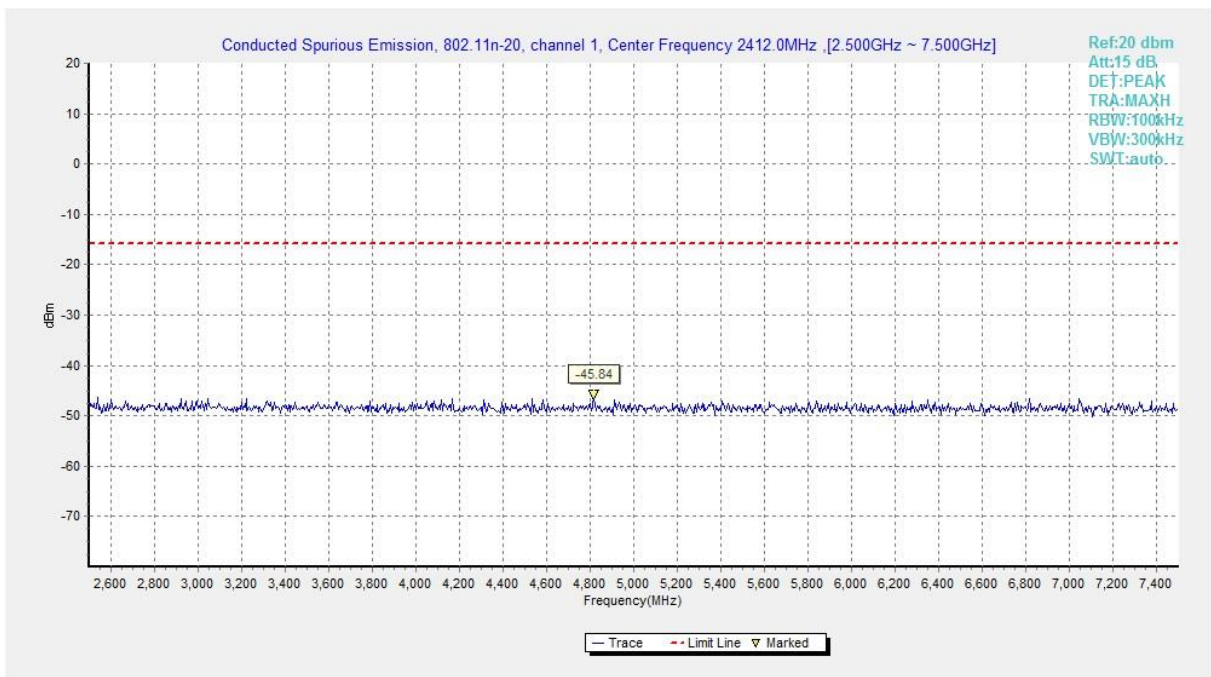
**Fig.A.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)**



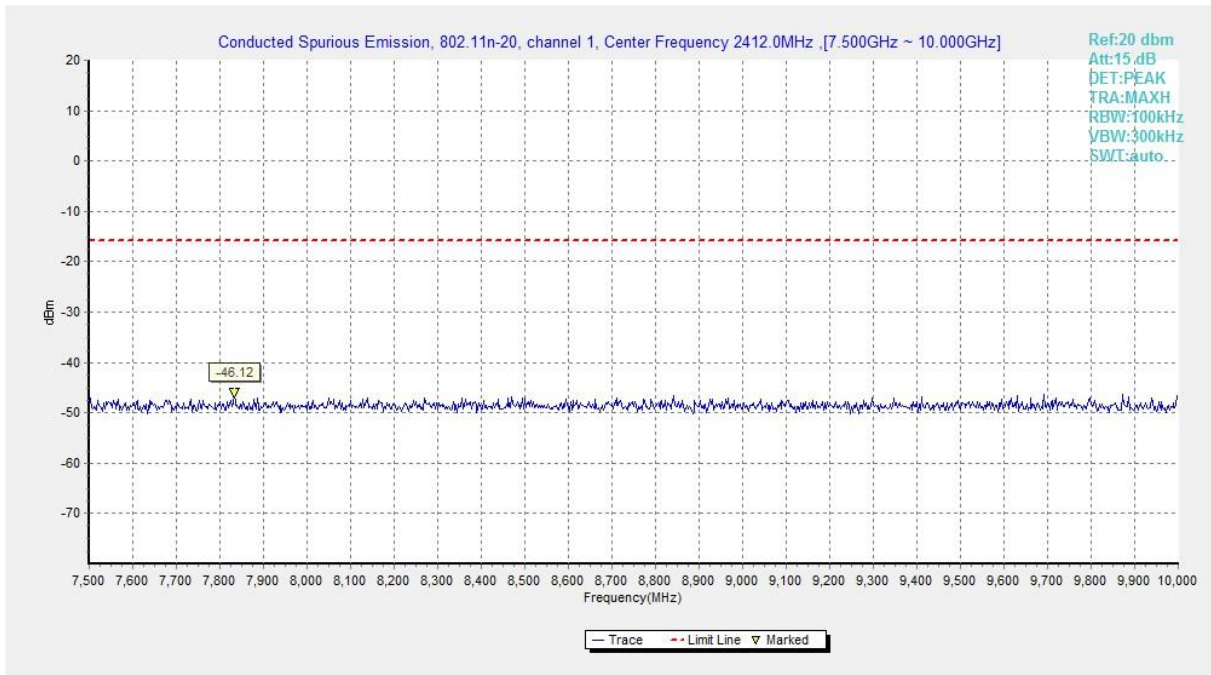
**Fig.A.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



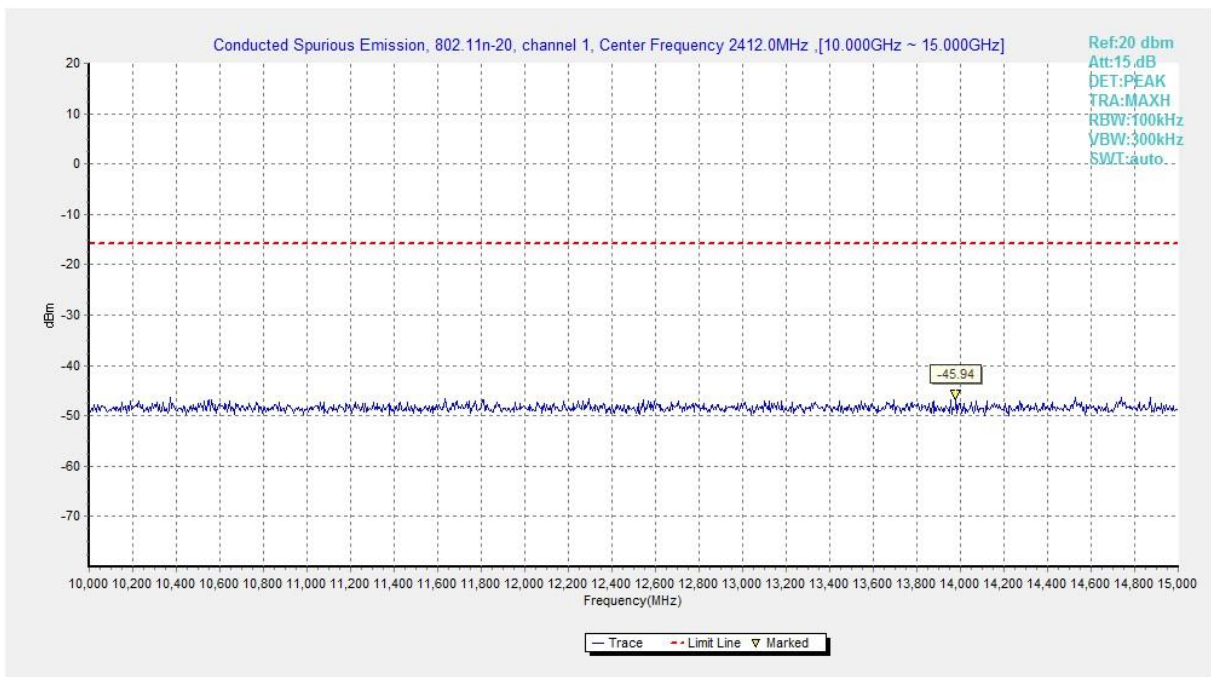
**Fig.A.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)**



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

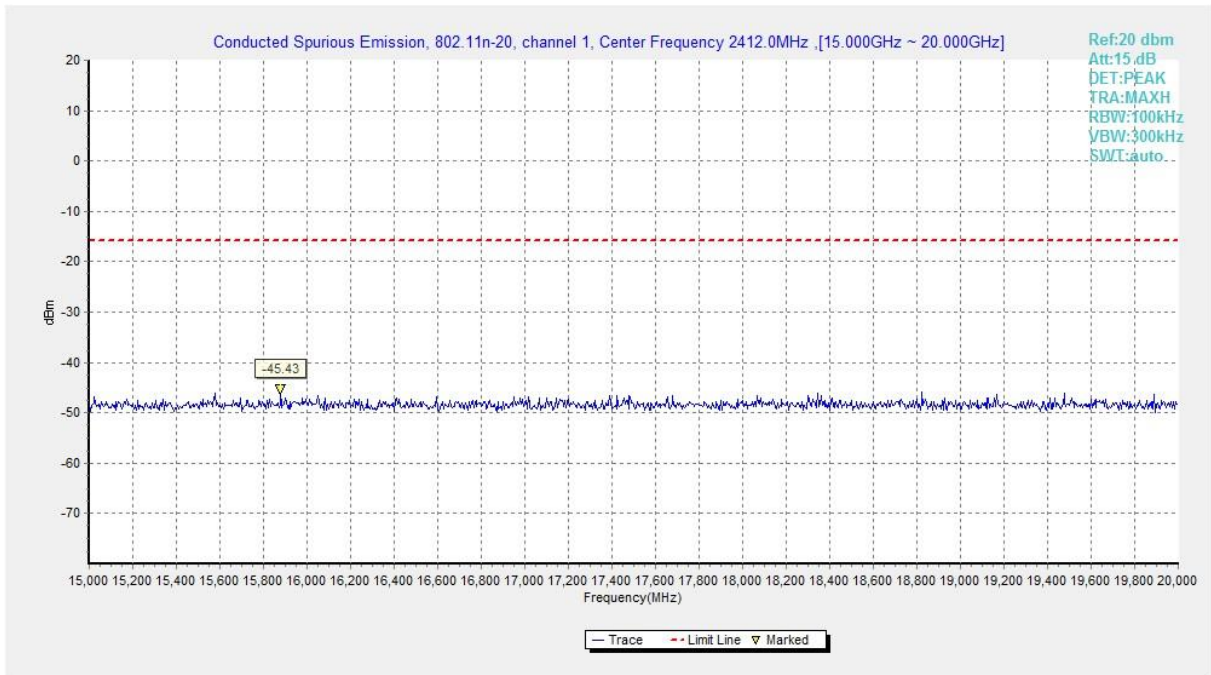


**Fig.A.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)**

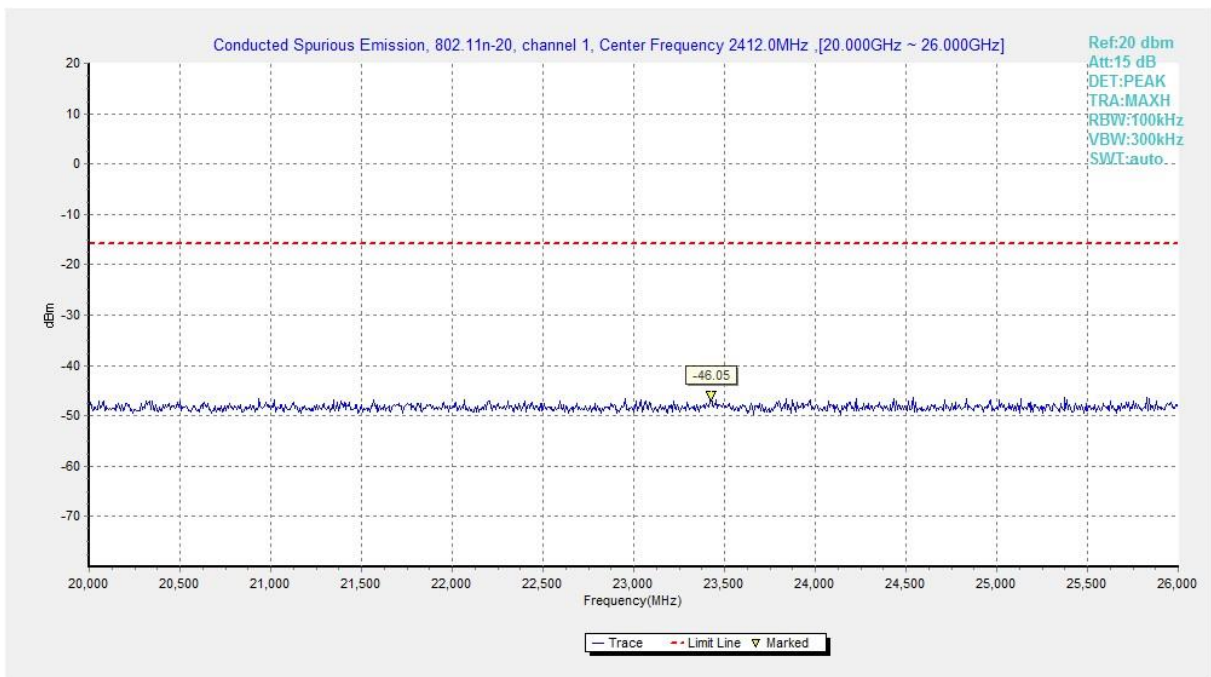


**Fig.A.6.1.54 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 10 GHz-15 GHz)**

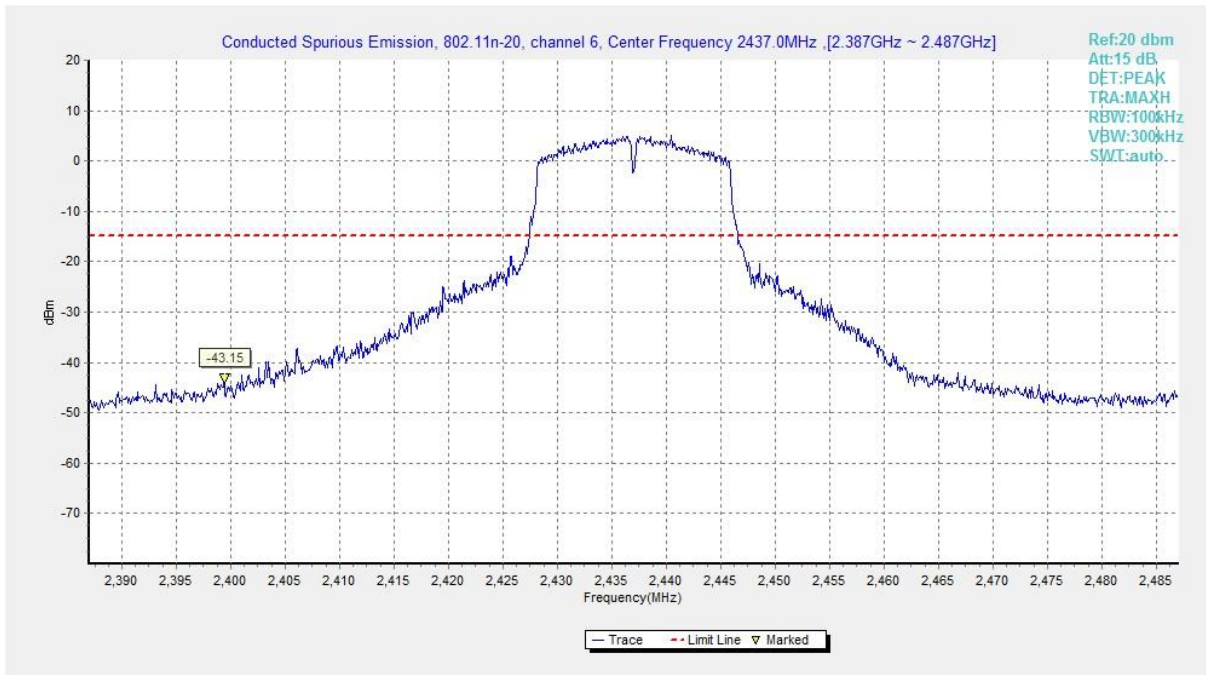




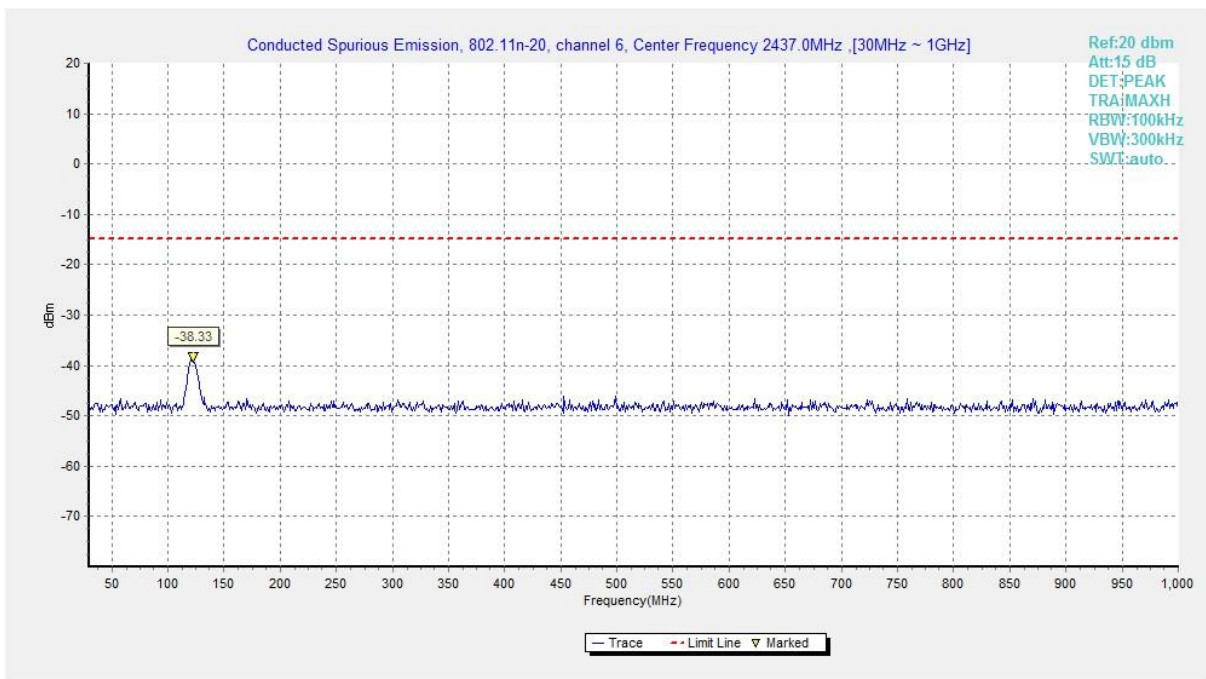
**Fig.A.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)**



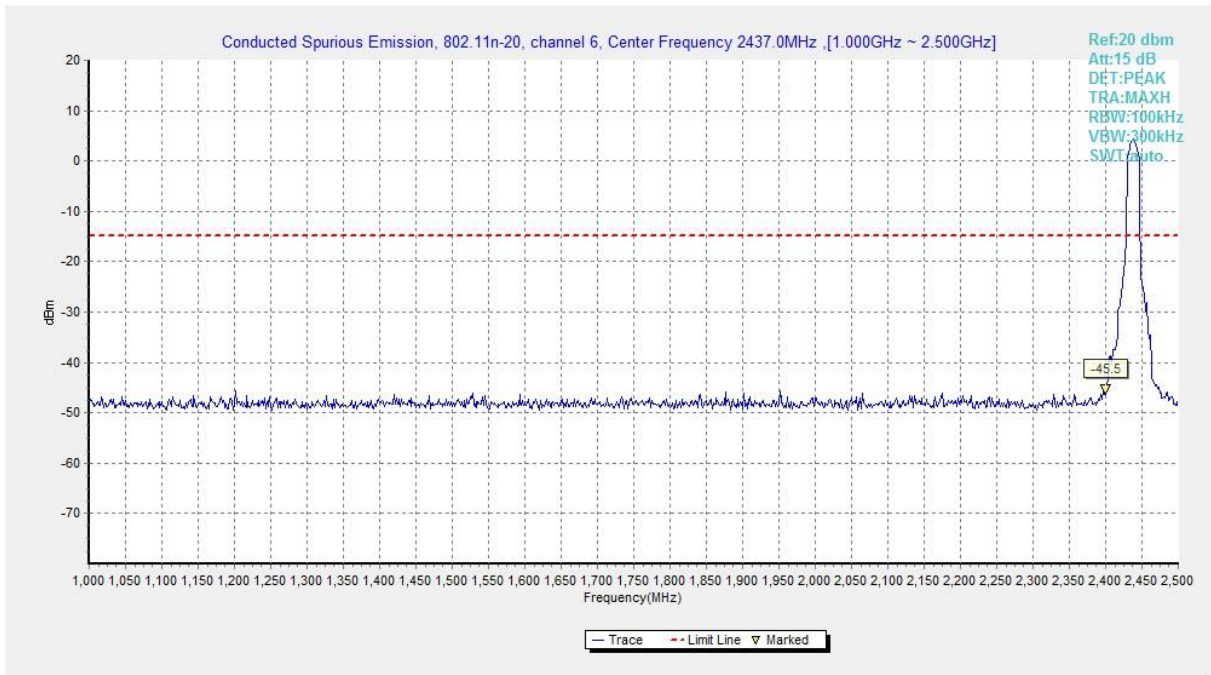
**Fig.A.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)**



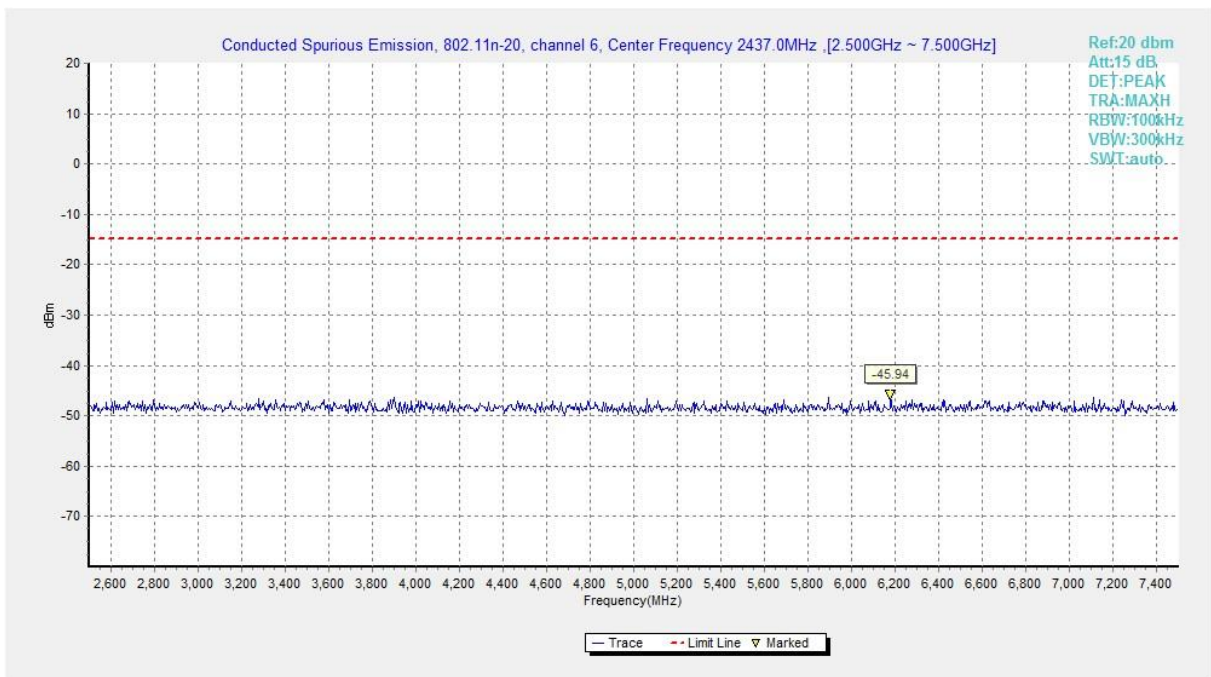
**Fig.A.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)**



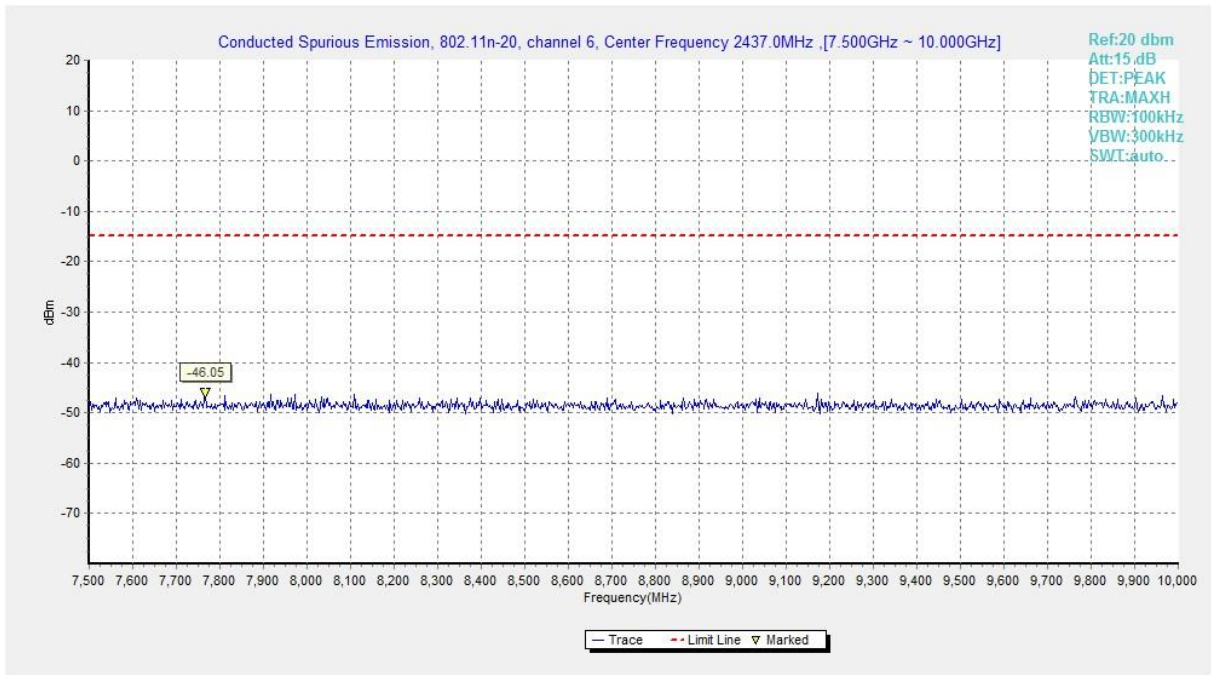
**Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



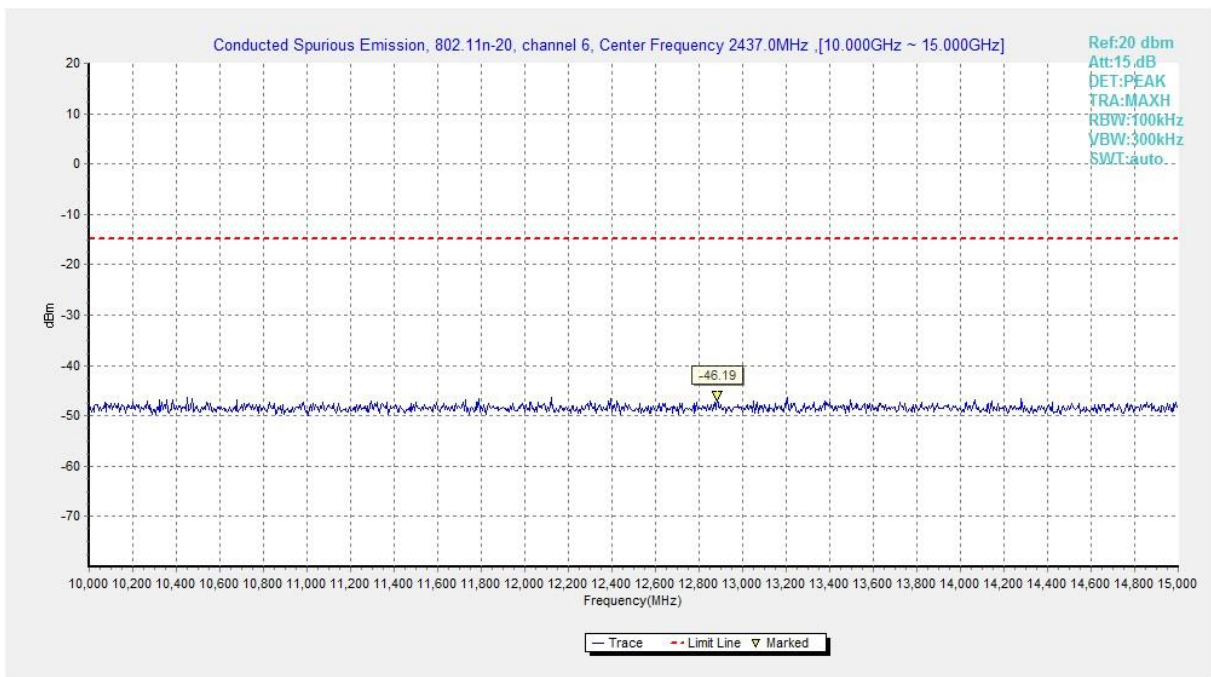
**Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)**



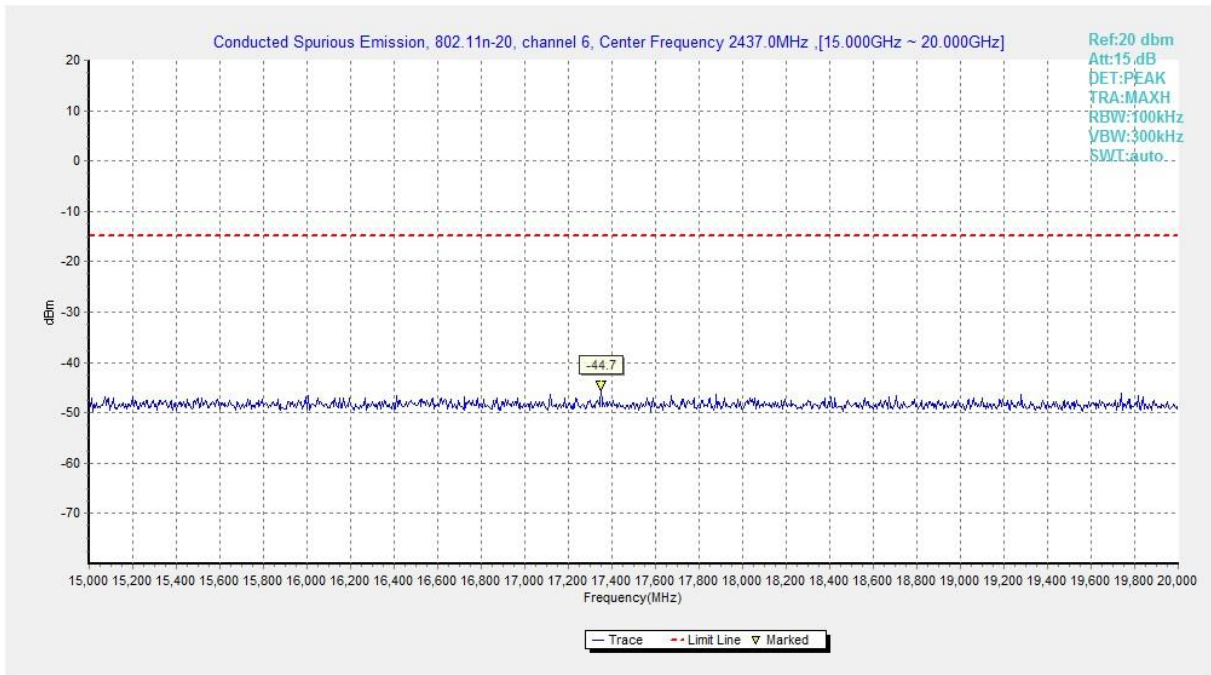
**Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)**



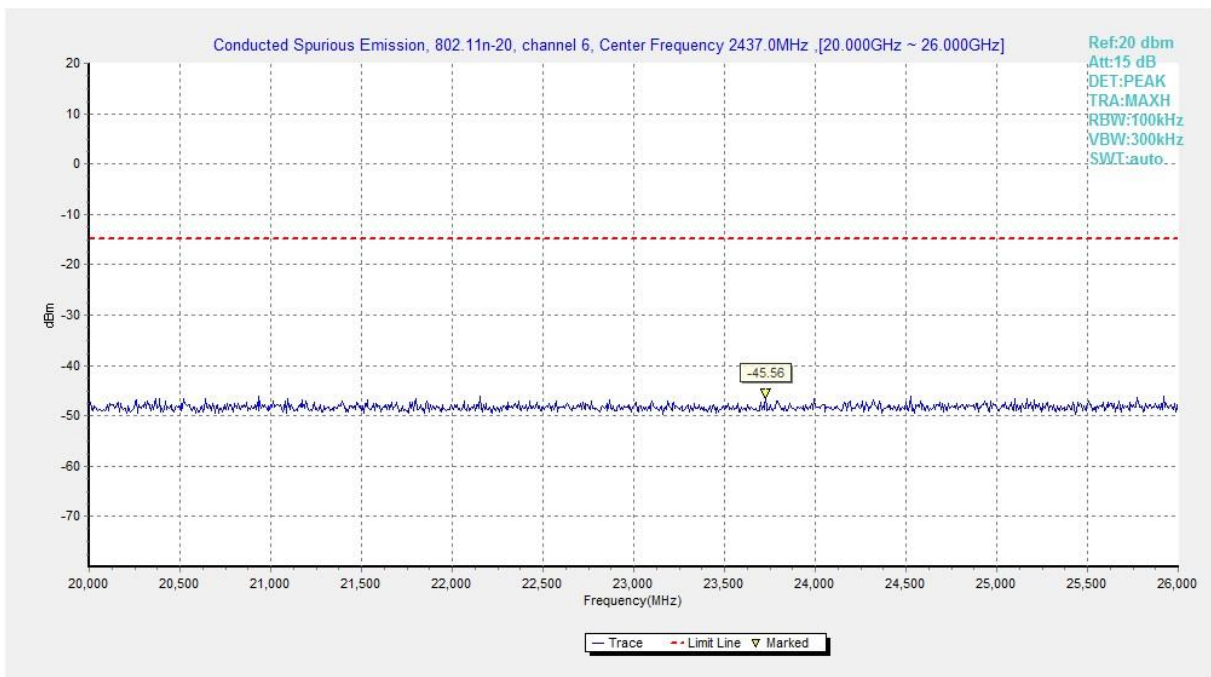
**Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)**



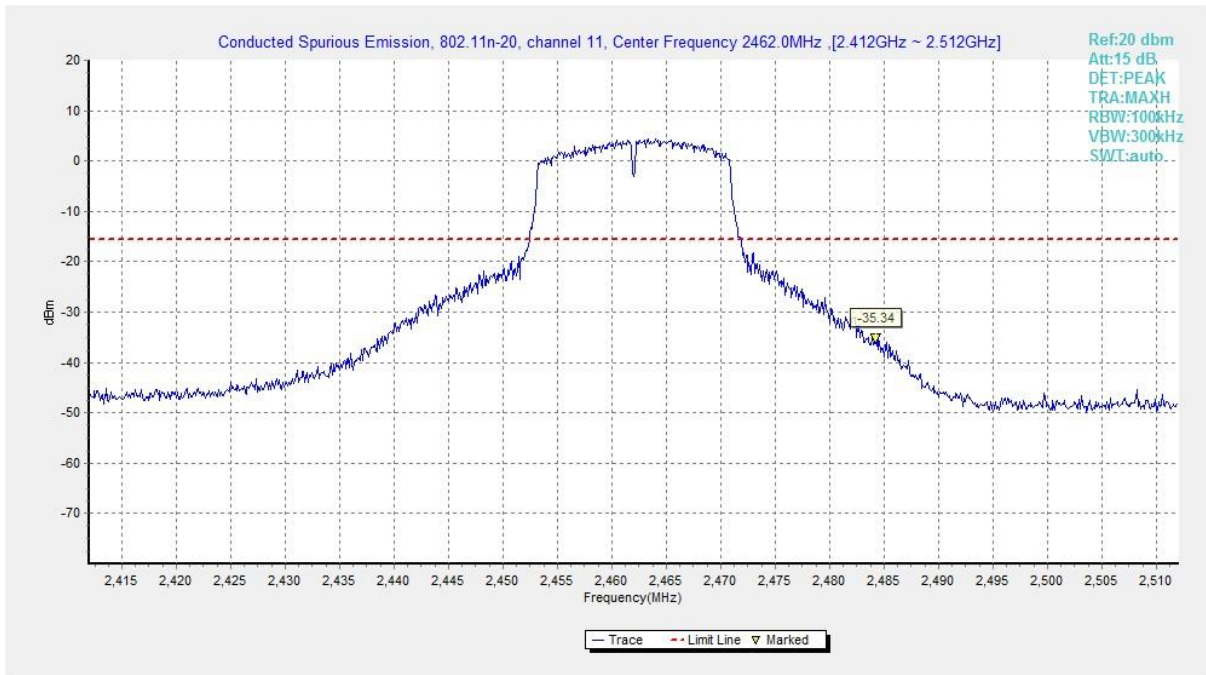
**Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)**



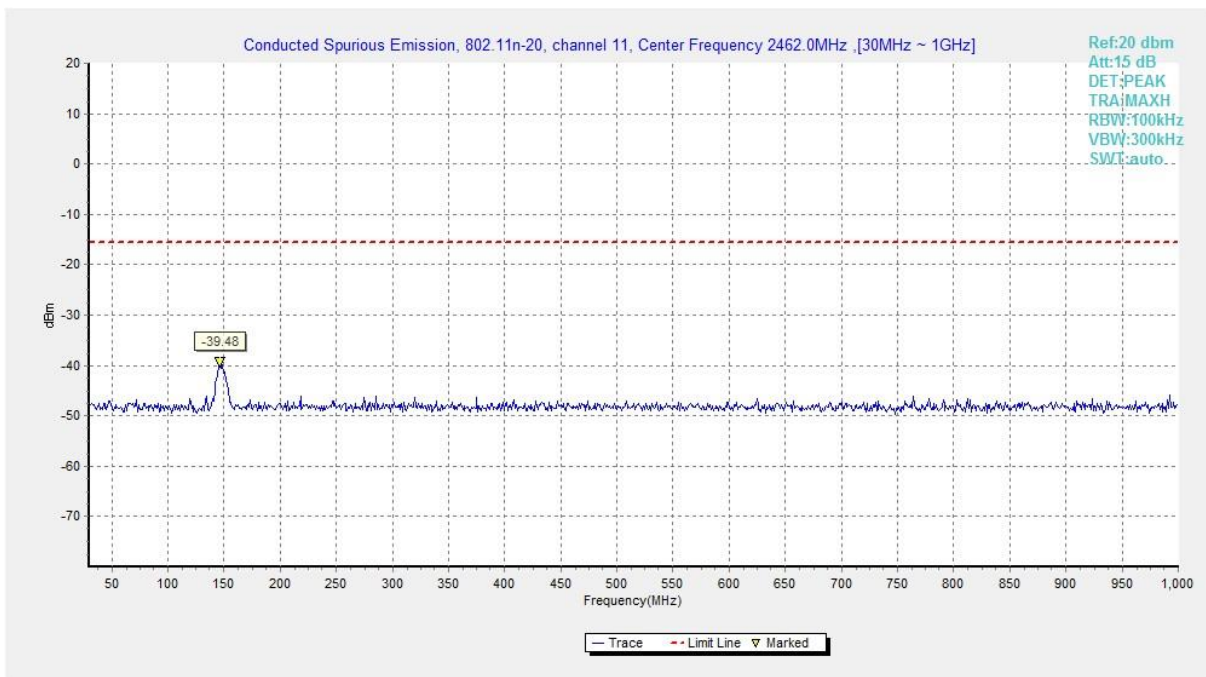
**Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)**



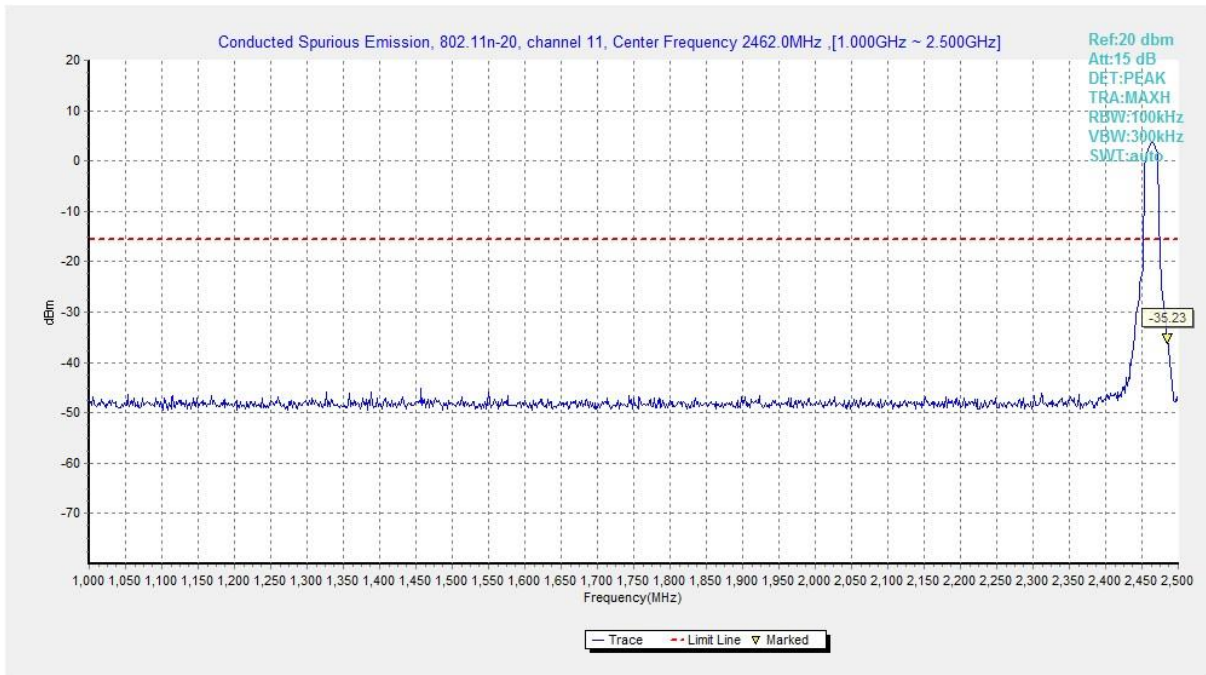
**Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)**



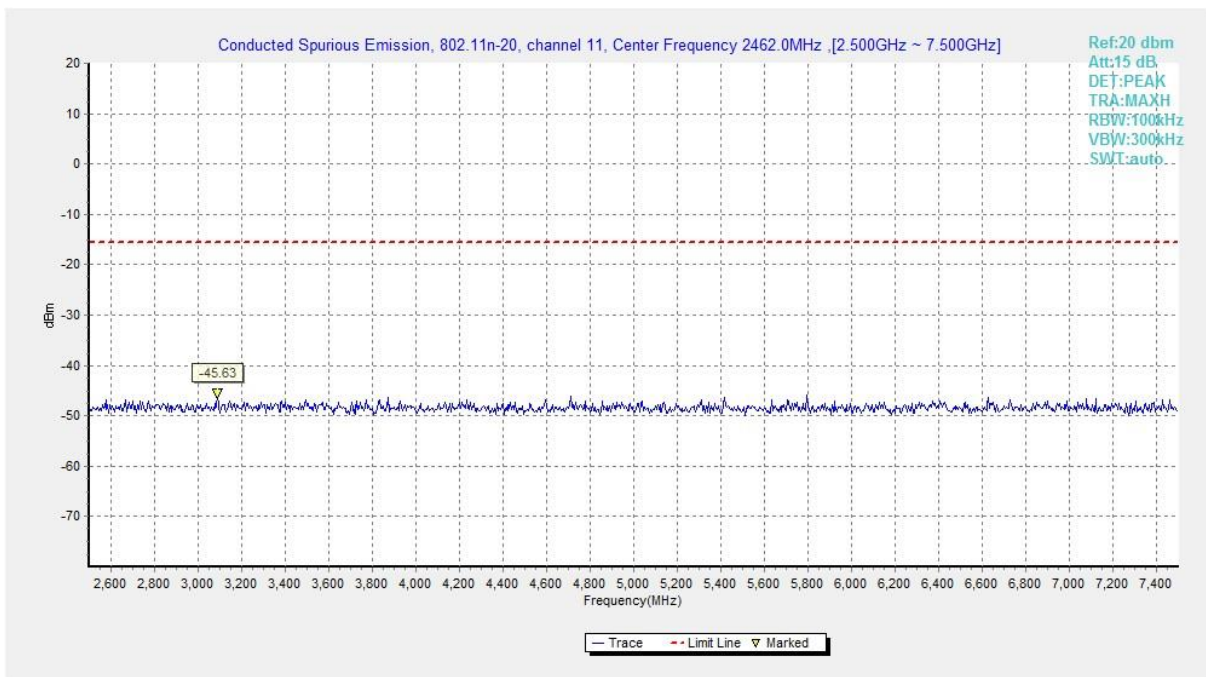
**Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)**



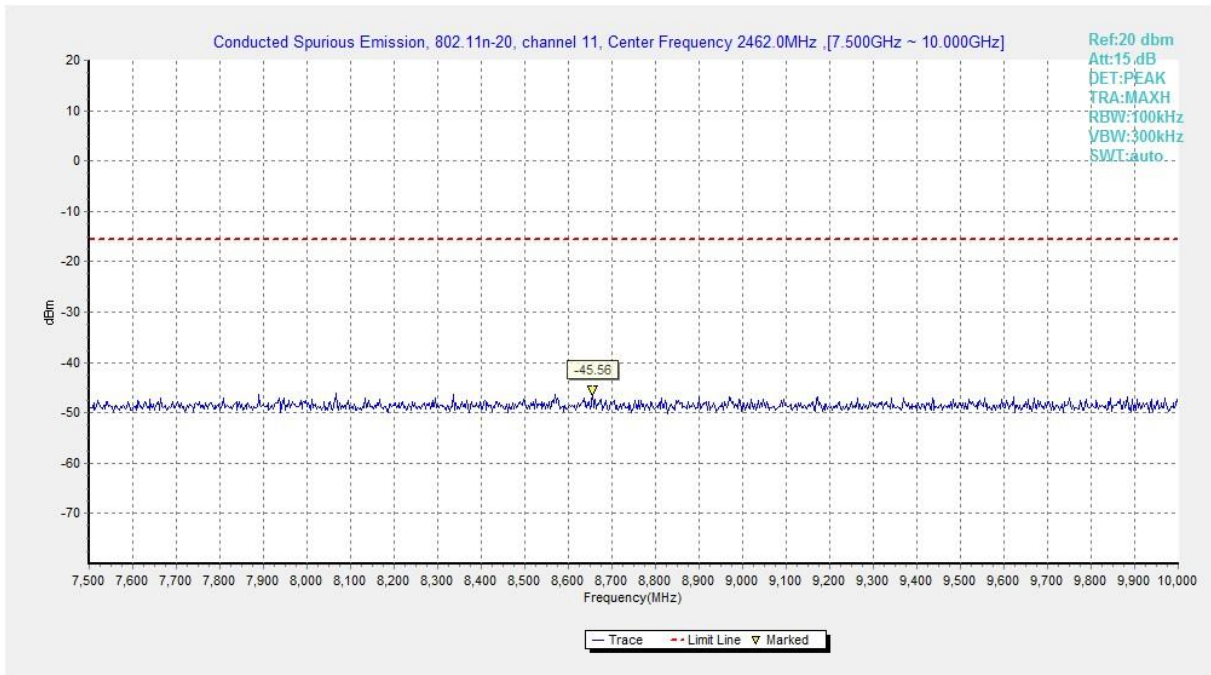
**Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



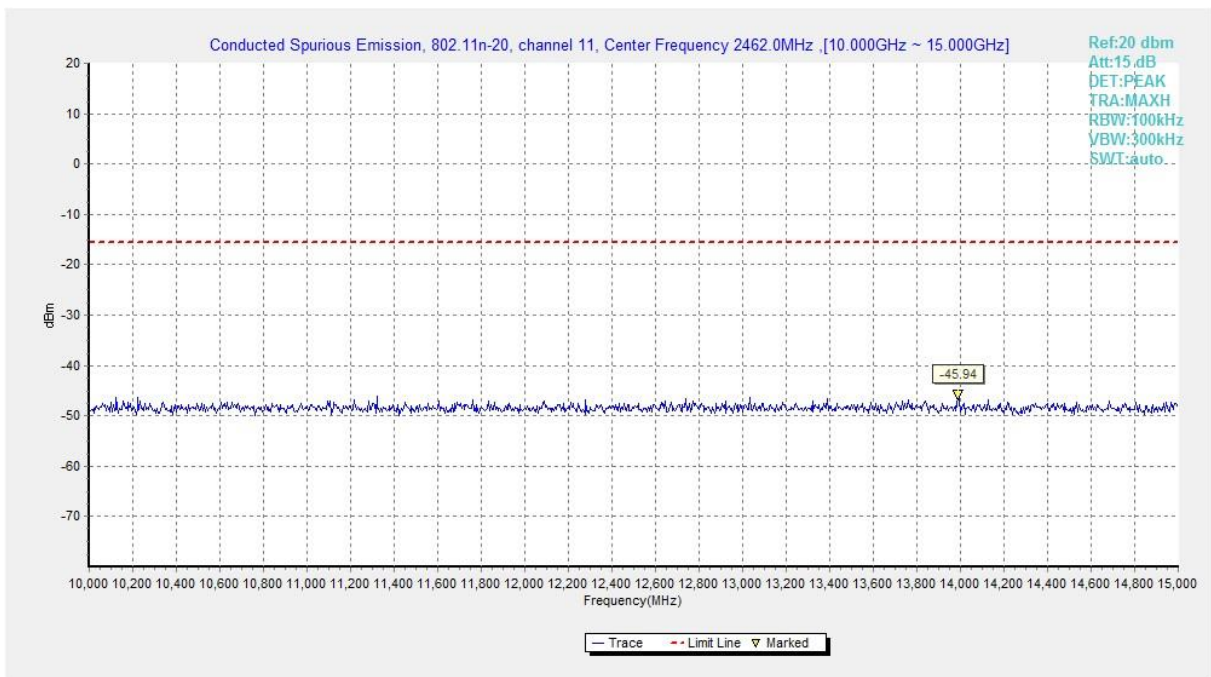
**Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)**



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

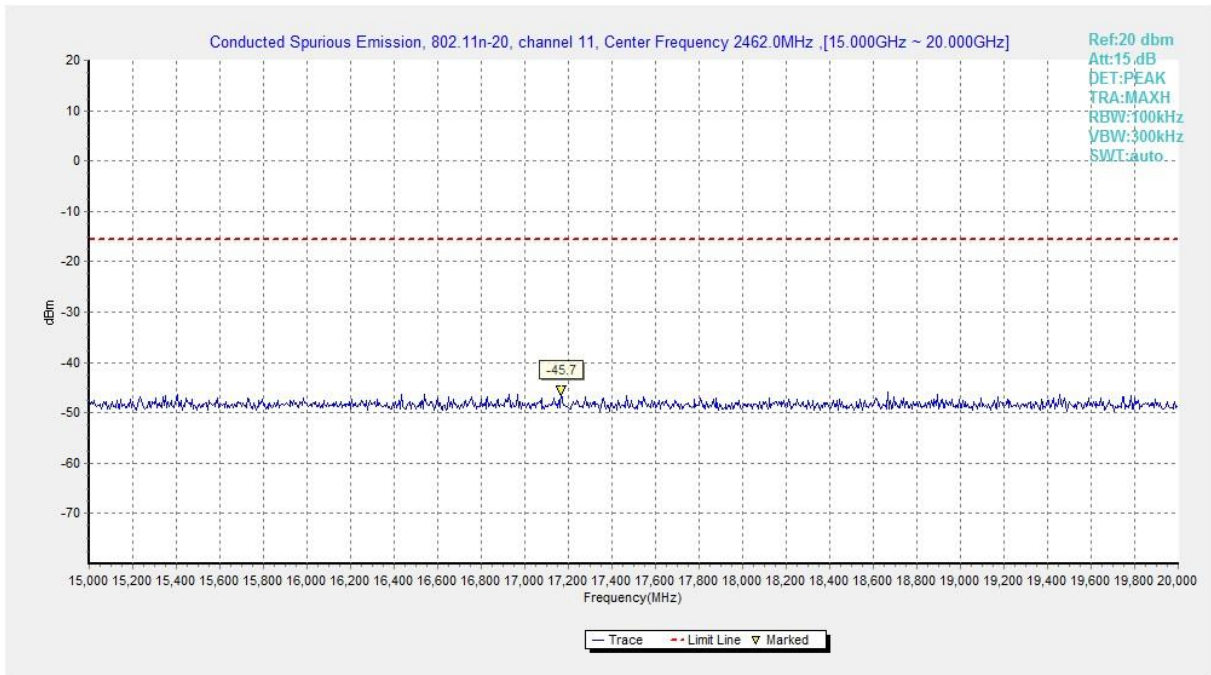


**Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)**

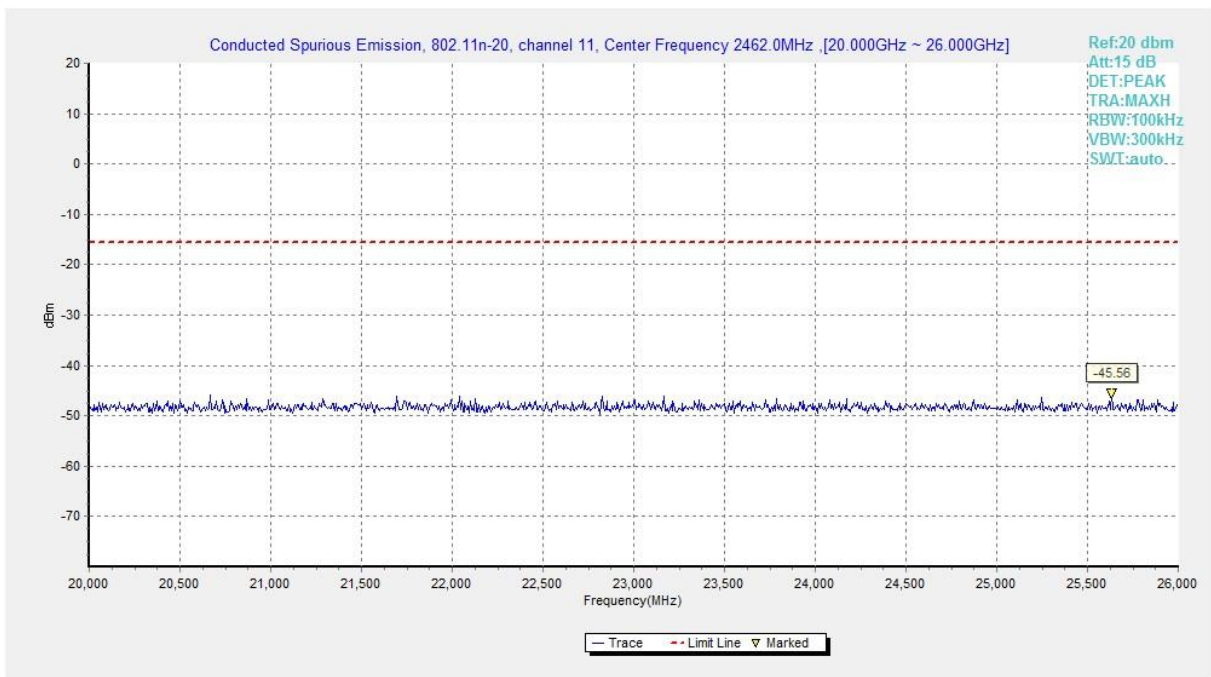


**Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)**





**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( $\mu\text{V}/\text{m}$ )	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( $\mu\text{V}/\text{m}$ )	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 for Set.1:**

**802.11b mode**

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

**802.11g mode**

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

**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	<b>P</b>
	11	2.45GHz~2.50GHz---H	Fig.A.6.2.6	<b>P</b>

**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)
17967.500	54.98	-25.50	46.70	33.78	74.00	19.02	V
14099.500	51.50	-29.40	41.70	39.30	74.00	22.50	H
12969.000	49.38	-30.50	39.20	40.68	74.00	24.62	H
9937.000	47.24	-33.50	38.10	42.64	74.00	26.76	V
7215.500	46.67	-35.50	36.40	45.77	74.00	27.33	V
2387.100	58.36	-20.00	28.10	50.36	74.00	15.64	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)
17698.500	55.00	-25.70	46.00	34.80	74.00	19.00	H
13375.000	51.76	-29.50	39.70	41.56	74.00	22.24	V
12900.000	50.76	-30.70	39.10	42.26	74.00	23.24	H
9877.000	46.95	-33.50	38.10	42.35	74.00	27.05	V
7873.000	46.49	-34.90	37.10	44.29	74.00	27.51	V
4779.500	41.96	-37.30	33.00	46.16	74.00	32.04	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)
17897.500	54.50	-25.50	46.70	33.30	74.00	19.50	V
13685.500	52.10	-29.50	40.40	41.20	74.00	21.90	H
12855.500	49.87	-30.70	39.10	41.37	74.00	24.13	V
8974.500	47.30	-33.30	38.20	42.40	74.00	26.70	V
7893.500	46.25	-34.90	37.10	44.05	74.00	27.75	V
2487.500	59.35	-20.00	28.30	51.05	74.00	14.65	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)
17982.000	54.92	-25.50	46.70	33.72	74.00	19.08	H
14648.500	51.35	-27.30	41.90	36.75	74.00	22.65	V
12857.500	49.67	-30.70	39.10	41.17	74.00	24.33	V
9339.000	48.02	-33.90	38.00	43.92	74.00	25.98	H
7998.000	46.74	-34.80	37.10	44.44	74.00	27.26	V
2389.800	73.05	-20.00	28.10	65.05	74.00	0.95	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)
17494.500	54.81	-26.90	45.20	36.41	74.00	19.19	V
14230.000	51.46	-29.00	42.00	38.46	74.00	22.54	H
12784.000	49.91	-30.70	39.10	41.41	74.00	24.09	V
9224.500	47.73	-33.70	38.00	43.43	74.00	26.27	H
7987.500	46.19	-34.80	37.10	43.89	74.00	27.81	H
4969.500	41.64	-36.60	33.40	44.84	74.00	32.36	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)
17298.500	54.55	-25.90	44.40	36.15	74.00	19.45	H
14231.000	51.78	-29.00	42.00	38.78	74.00	22.22	H
12748.000	50.06	-30.50	39.10	41.46	74.00	23.94	V
9590.000	48.56	-33.10	38.00	43.66	74.00	25.44	V
7117.500	46.70	-35.40	36.30	45.80	74.00	27.30	H
2485.700	65.55	-20.00	28.30	57.25	74.00	8.45	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)
17988.5	54.82	-25.50	46.70	33.62	74.00	19.18	V
14173.5	51.86	-29.00	42.00	38.86	74.00	22.14	V
12359.5	49.58	-31.10	38.90	41.78	74.00	24.42	H
9210.5	47.98	-33.70	38.00	43.68	74.00	26.02	H
7227	46.76	-35.50	36.40	45.86	74.00	27.24	V
2389.9	70.54	-20.00	28.10	62.54	74.00	3.46	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)
17732	55.02	-25.70	46.00	34.82	74.00	18.98	V
13575.5	51.44	-29.50	40.40	40.54	74.00	22.56	H
12825.5	49.82	-30.70	39.10	41.32	74.00	24.18	V
9956	47.96	-33.50	38.10	43.36	74.00	26.04	H
7978	46.62	-34.80	37.10	44.32	74.00	27.38	V
4742.5	42.14	-37.30	33.00	46.44	74.00	31.86	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)
17403.5	55.26	-26.90	45.20	36.86	74.00	18.74	V
13791	51.78	-29.10	40.90	39.98	74.00	22.22	V
12733	49.62	-30.50	39.10	41.02	74.00	24.38	V
9010.5	47.86	-33.30	38.20	42.96	74.00	26.14	V
7320.5	47.23	-35.10	36.60	45.73	74.00	26.77	H
2485.2	64.65	-20.00	28.30	56.35	74.00	9.35	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)
17702.000	43.93	-25.70	46.00	23.73	54.00	10.07	V
14173.500	40.42	-29.00	42.00	27.42	54.00	13.58	V
12837.500	38.82	-30.70	39.10	30.32	54.00	15.18	V
9006.000	36.55	-33.30	38.20	31.65	54.00	17.45	V
7982.000	35.61	-34.80	37.10	33.31	54.00	18.39	H
2387.500	46.91	-20.00	28.10	38.91	54.00	7.09	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)
17991.000	43.78	-25.50	46.70	22.58	54.00	10.22	H
14171.000	40.58	-29.00	42.00	27.58	54.00	13.42	V
12932.500	38.77	-30.50	39.20	30.07	54.00	15.23	V
9422.000	36.61	-32.90	37.90	31.61	54.00	17.39	H
7978.000	35.66	-34.80	37.10	33.36	54.00	18.34	H
4753.500	30.81	-37.30	33.00	35.11	54.00	23.19	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)
17948.000	43.80	-25.50	46.70	22.60	54.00	10.20	V
14173.000	40.49	-29.00	42.00	27.49	54.00	13.51	H
12846.500	38.61	-30.70	39.10	30.11	54.00	15.39	H
9723.000	36.46	-33.00	38.00	31.46	54.00	17.54	V
7535.500	35.42	-34.50	36.80	33.12	54.00	18.58	H
2487.600	47.99	-20.00	28.30	39.69	54.00	6.01	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)
17964.000	43.59	-25.50	46.70	22.39	54.00	10.41	V
14169.000	40.39	-29.00	42.00	27.39	54.00	13.61	V
12862.000	38.99	-30.70	39.10	30.49	54.00	15.01	V
9695.000	36.23	-33.00	38.00	31.23	54.00	17.77	H
7985.000	35.52	-34.80	37.10	33.22	54.00	18.48	V
2389.900	53.12	-20.00	28.10	45.12	54.00	0.88	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)
17997.500	43.70	-25.50	46.70	22.50	54.00	10.30	H
14169.000	40.74	-29.00	42.00	27.74	54.00	13.26	V
12881.500	38.91	-30.70	39.10	30.41	54.00	15.09	V
9227.000	36.62	-33.70	38.00	32.32	54.00	17.38	V
7980.000	35.82	-34.80	37.10	33.52	54.00	18.18	V
4873.500	31.43	-37.20	33.20	35.43	54.00	22.57	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)
17987.000	43.81	-25.50	46.70	22.61	54.00	10.19	V
14184.500	40.61	-29.00	42.00	27.61	54.00	13.39	H
12851.500	38.70	-30.70	39.10	30.20	54.00	15.30	V
9236.000	36.84	-33.70	38.00	32.54	54.00	17.16	V
7981.500	35.60	-34.80	37.10	33.30	54.00	18.40	H
2485.100	49.46	-20.00	28.30	41.16	54.00	4.54	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)
17603	43.70	-25.70	46.00	23.50	54.00	10.30	H
14193.5	40.74	-29.00	42.00	27.74	54.00	13.26	H
12775	38.70	-30.70	39.10	30.20	54.00	15.30	H
9985.5	36.86	-33.60	38.10	32.36	54.00	17.14	H
7987	35.48	-34.80	37.10	33.18	54.00	18.52	V
2390	48.54	-20.00	28.10	40.54	54.00	5.46	H

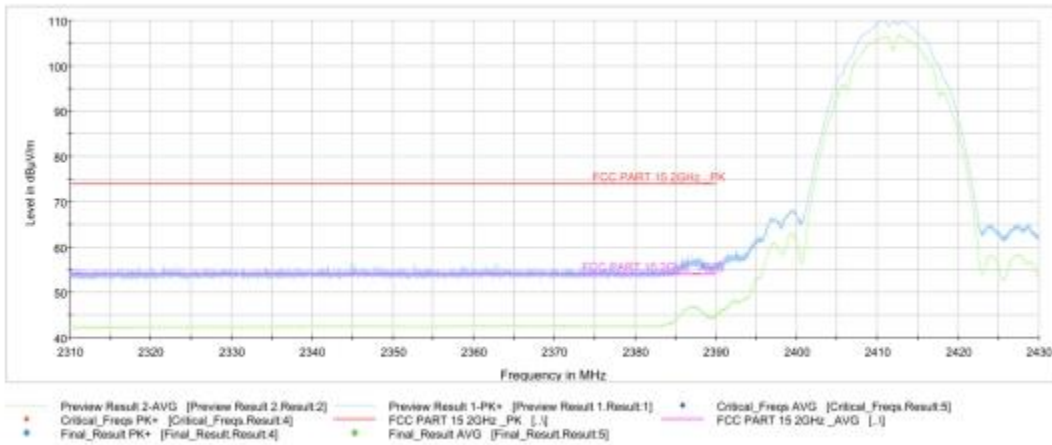
## Ch6

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)
17597.5	43.85	-25.70	46.00	23.65	54.00	10.15	H
14180	40.93	-29.00	42.00	27.93	54.00	13.07	H
12871	39.42	-30.70	39.10	30.92	54.00	14.58	H
9543.5	36.76	-33.20	37.90	32.06	54.00	17.24	V
7991.5	36.03	-34.80	37.10	33.73	54.00	17.97	H
4719.5	30.83	-37.40	32.90	35.33	54.00	23.17	V

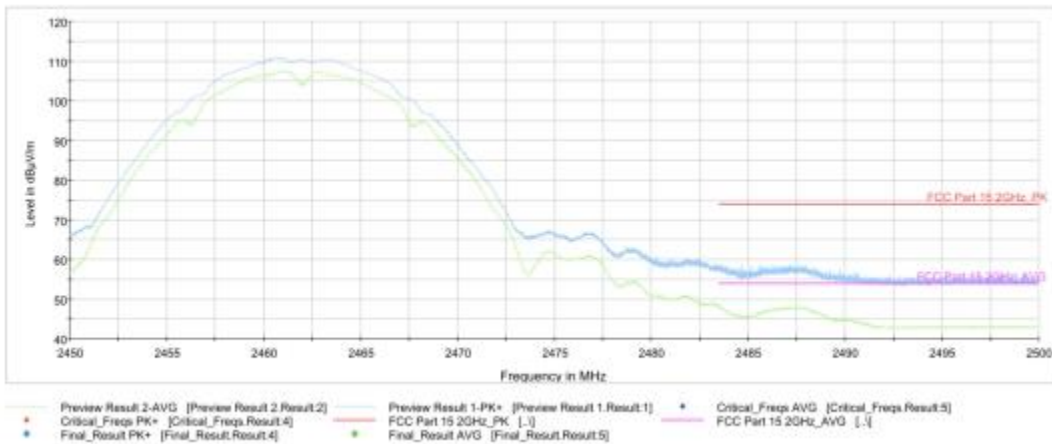
## Ch11

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)
17580	44.07	-25.70	46.00	23.87	54.00	9.93	V
14170	40.80	-29.00	42.00	27.80	54.00	13.20	V
12745.5	38.83	-30.50	39.10	30.23	54.00	15.17	V
7312	36.99	-35.00	36.50	35.39	54.00	17.01	V
9127.5	36.74	-33.80	38.10	32.54	54.00	17.26	H
2485	47.80	-20.00	28.30	39.50	54.00	6.20	H

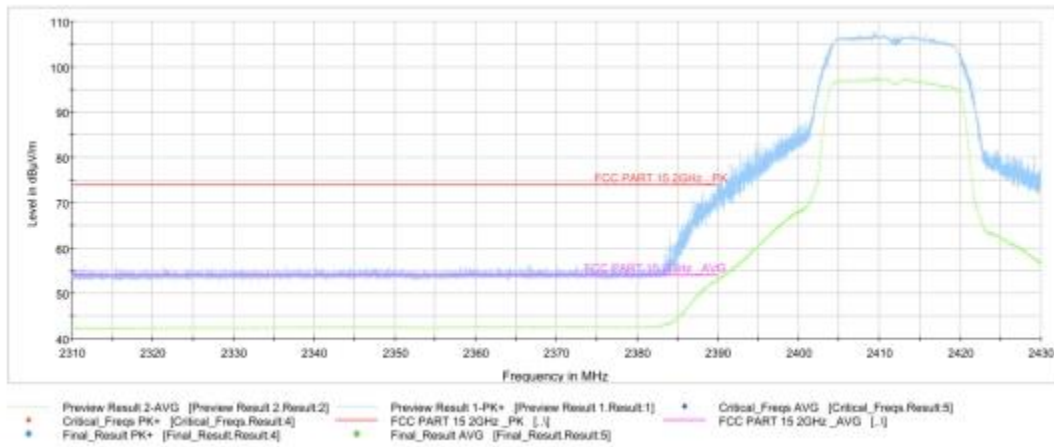
Test graphs as below:



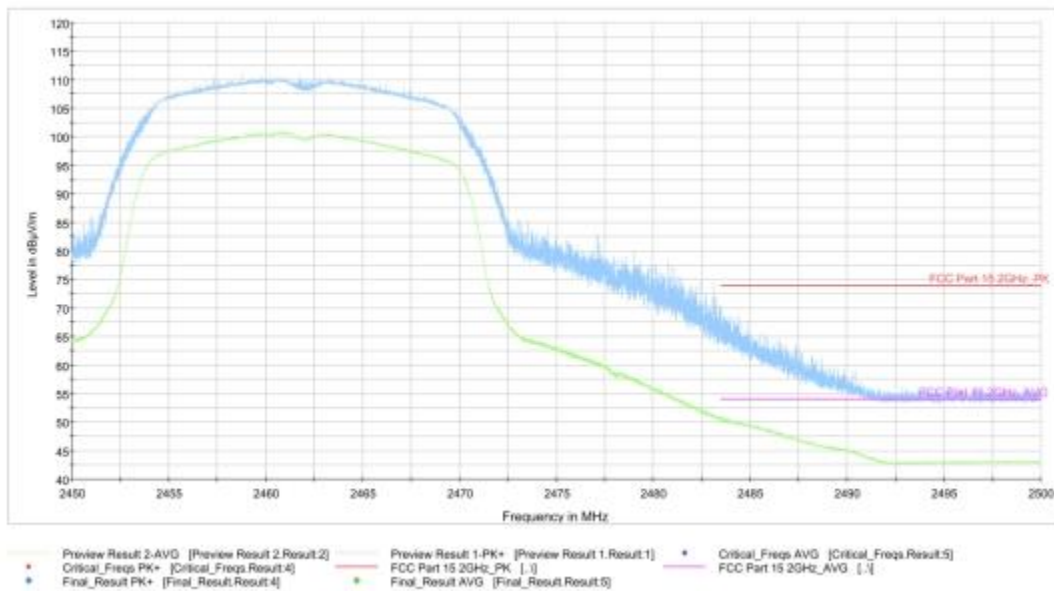
**Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.43GHz**



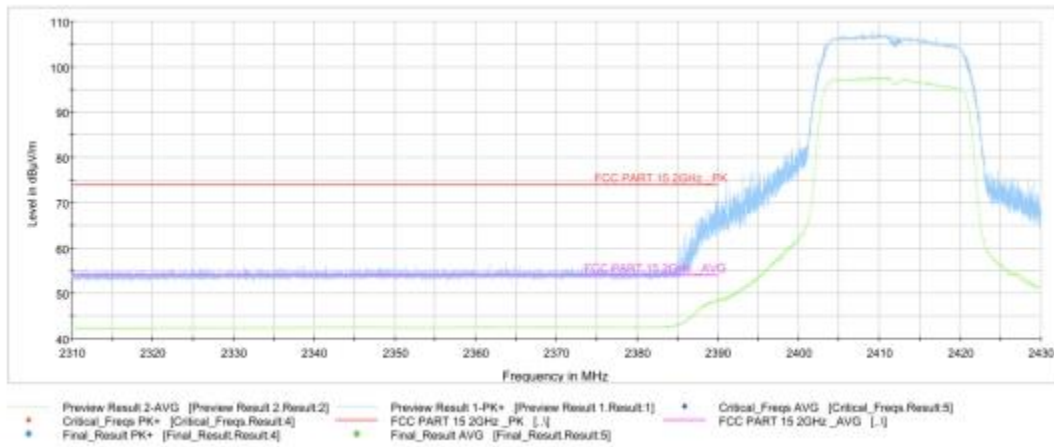
**Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**



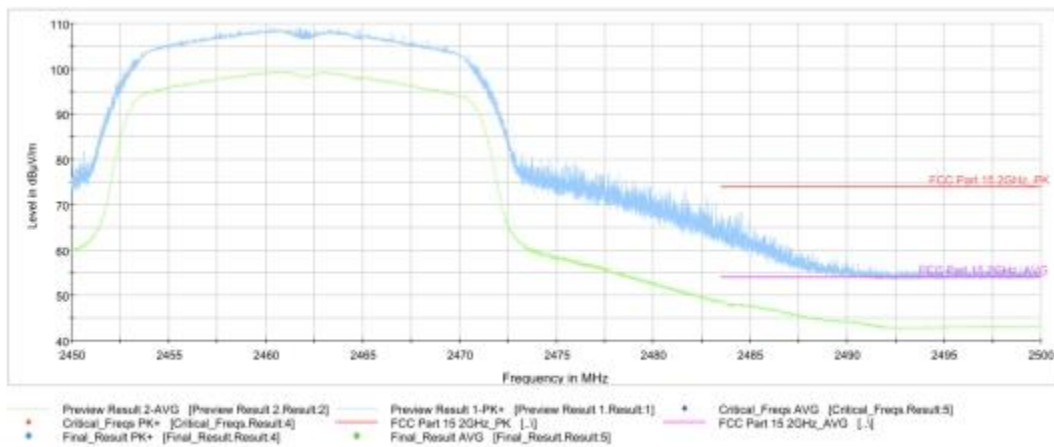
**Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz**



**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 - 2.43GHz**



**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 within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> 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:**

<b>Voltage (V)</b>	<b>Frequency (Hz)</b>
120	60

**Measurement Result and limit:**

## WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	<b>P</b>
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.

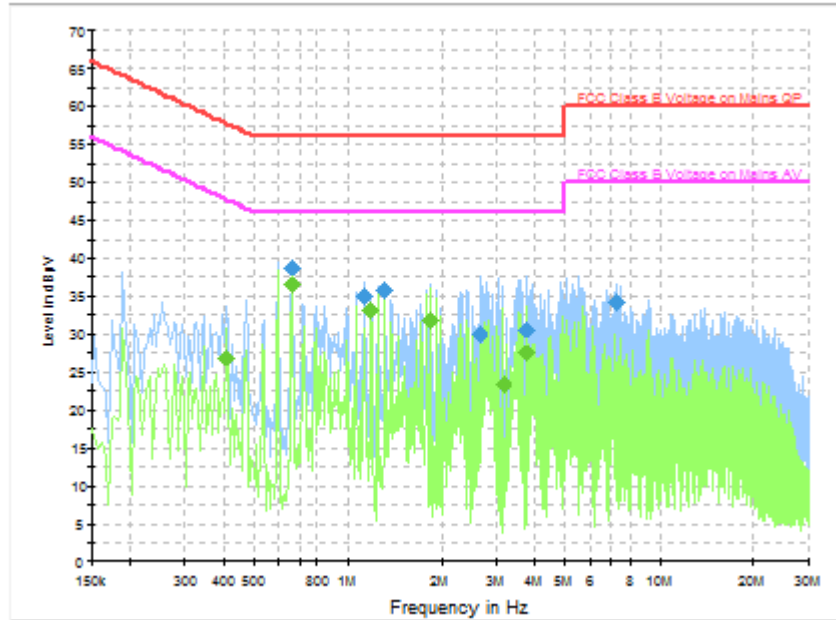
## WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	<b>P</b>
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:**

**Measurement results for Set.1:**  
**Result for Traffic:**



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

Note2: The graphic result above is the maximum of the measurements for both phase line and neutral line.

**Final Result 1**

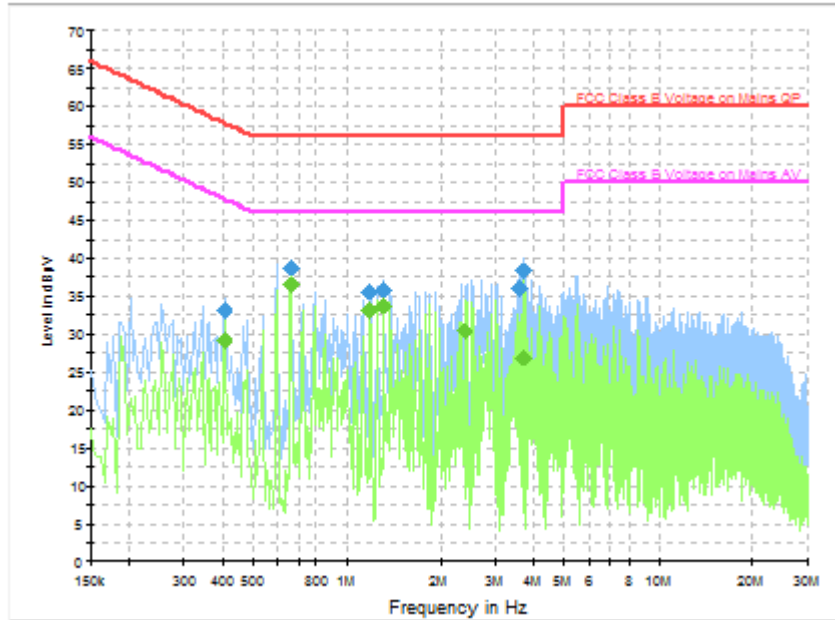
Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.658000	38.7	2000.0	9.000	On	L1	19.7	17.3	56.0
1.126000	34.9	2000.0	9.000	On	L1	19.5	21.1	56.0
1.318000	35.9	2000.0	9.000	On	L1	19.5	20.1	56.0
2.642000	30.0	2000.0	9.000	On	N	19.7	26.0	56.0
3.774000	30.6	2000.0	9.000	On	N	19.7	25.4	56.0
7.322000	34.3	2000.0	9.000	On	L1	19.5	25.7	60.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.410000	26.8	2000.0	9.000	On	L1	19.9	20.8	47.6
0.658000	36.5	2000.0	9.000	On	L1	19.7	9.5	46.0
1.190000	33.1	2000.0	9.000	On	L1	19.5	12.9	46.0
1.850000	31.9	2000.0	9.000	On	L1	19.5	14.1	46.0
3.162000	23.4	2000.0	9.000	On	L1	19.5	22.6	46.0
3.754000	27.4	2000.0	9.000	On	L1	19.5	18.6	46.0

Note2: The measurement results showed here are worst cases .

**Measurement results for Set.1:**  
**Result for 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 (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.406000	33.2	2000.0	9.000	On	L1	19.9	24.5	57.7
0.658000	38.7	2000.0	9.000	On	L1	19.7	17.3	56.0
1.190000	35.6	2000.0	9.000	On	L1	19.5	20.4	56.0
1.318000	35.9	2000.0	9.000	On	L1	19.5	20.1	56.0
3.578000	36.0	2000.0	9.000	On	N	19.7	20.0	56.0
3.690000	38.3	2000.0	9.000	On	L1	19.5	17.7	56.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.406000	29.3	2000.0	9.000	On	L1	19.9	18.5	47.7
0.658000	36.5	2000.0	9.000	On	L1	19.7	9.5	46.0
1.190000	33.2	2000.0	9.000	On	L1	19.5	12.8	46.0
1.318000	33.7	2000.0	9.000	On	L1	19.5	12.3	46.0
2.382000	30.4	2000.0	9.000	On	L1	19.5	15.6	46.0
3.690000	26.8	2000.0	9.000	On	L1	19.5	19.2	46.0

Note2: The measurement results showed here are worst cases



## ANNEX B: EUT parameters

Disclaimer: The worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

## ANNEX C: Accreditation Certificate

<b>United States Department of Commerce National Institute of Standards and Technology</b>	
	
<hr/> <b>Certificate of Accreditation to ISO/IEC 17025:2017</b> <hr/>	
NVLAP LAB CODE: 600118-0	
<b>Telecommunication Technology Labs, CAICT</b> Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
<b>Electromagnetic Compatibility &amp; Telecommunications</b>	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).</i>	
2021-09-29 through 2022-09-30 <i>Effective Dates</i>	  <i>For the National Voluntary Laboratory Accreditation Program</i>

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