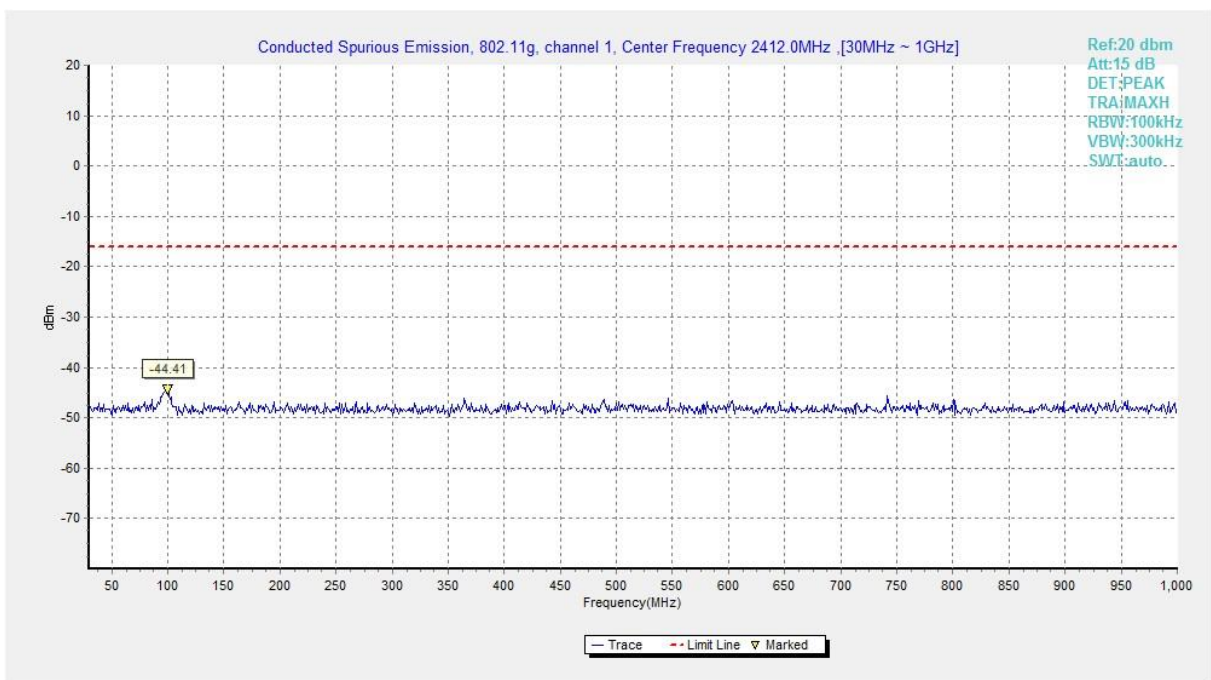


**Fig.A.6.1.25 Transmitter Spurious Emission - Conducted (802.11g, Ch1, Center Frequency)**



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

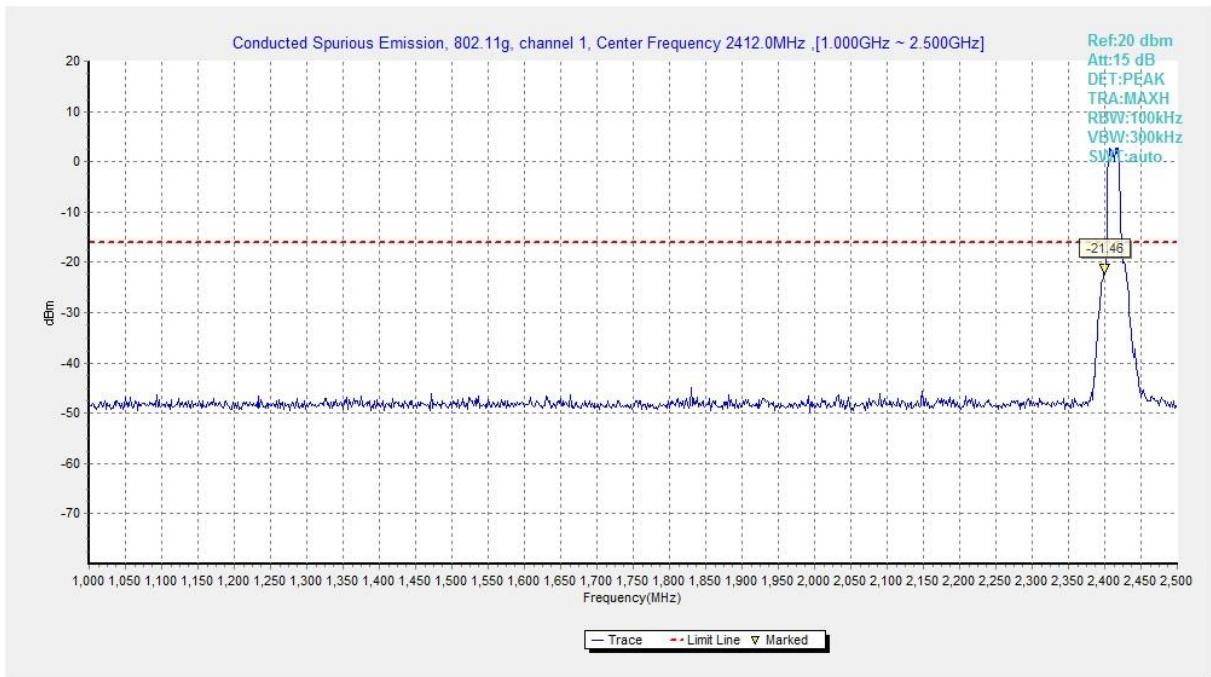


Fig.A.6.1.27 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 1 GHz-2.5 GHz)

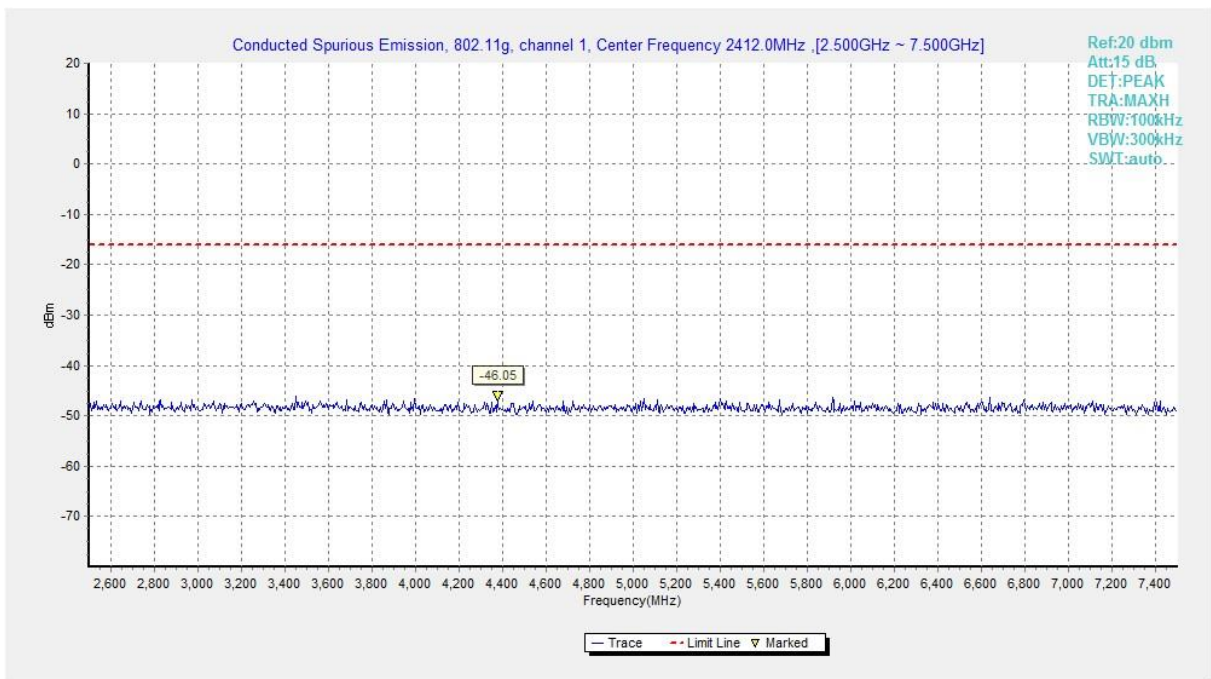
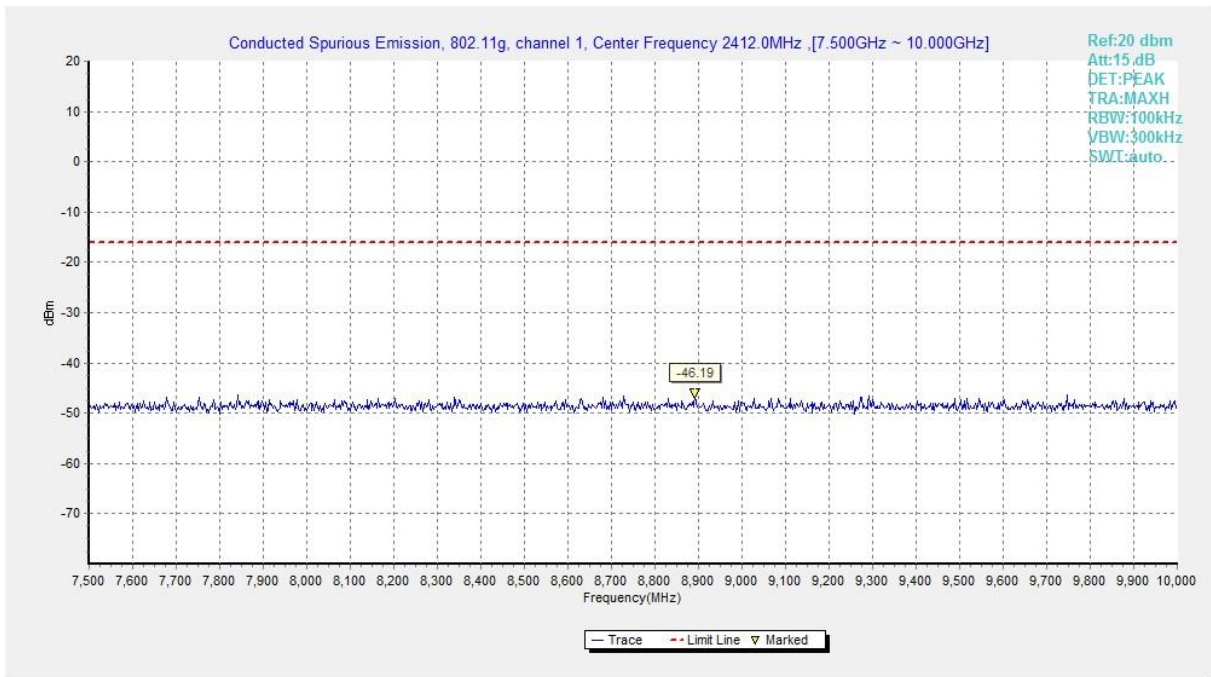
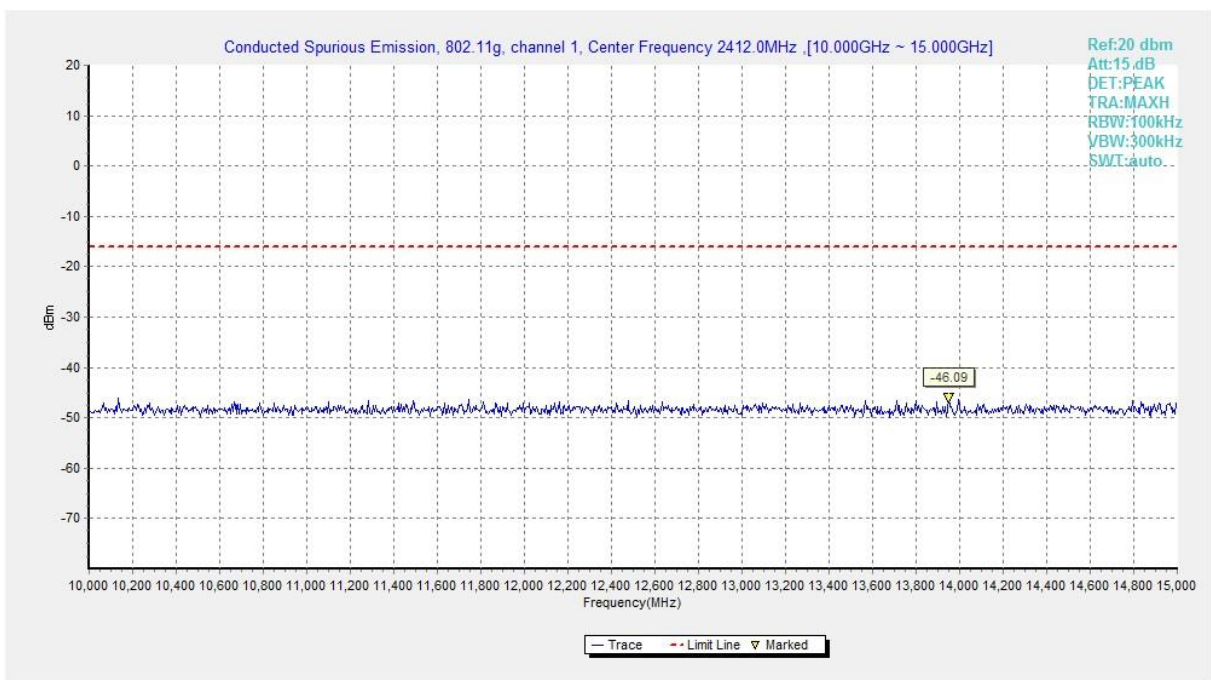


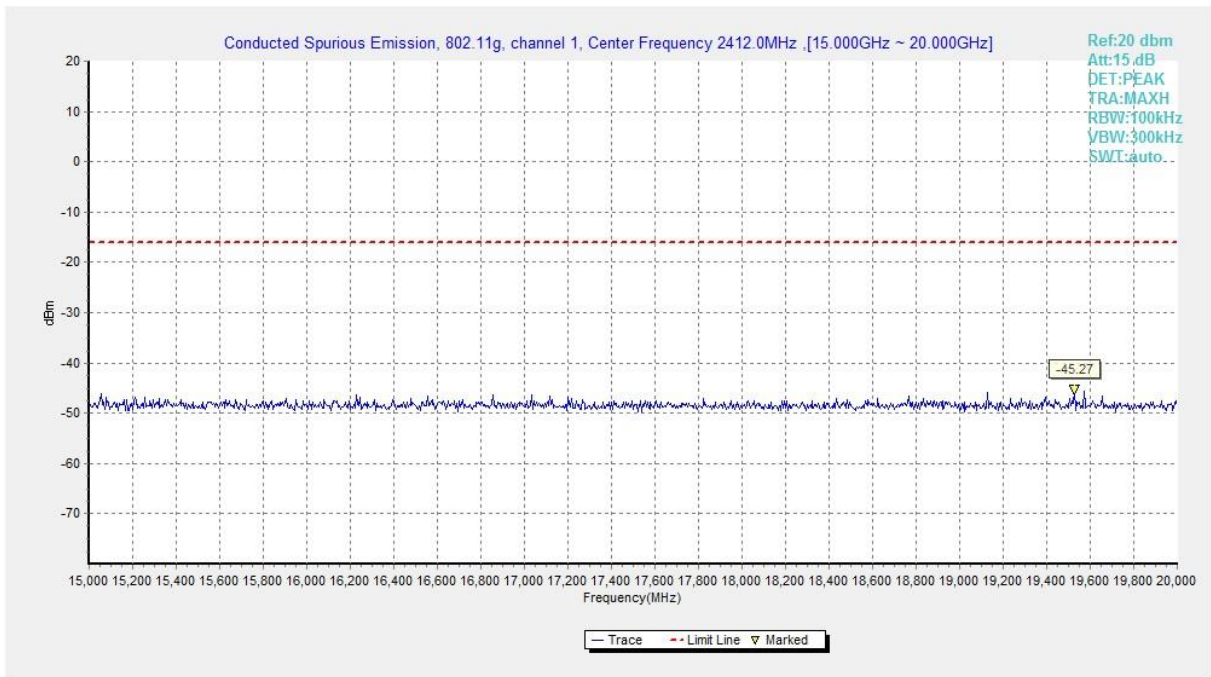
Fig.A.6.1.28 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 2.5 GHz-7.5 GHz)



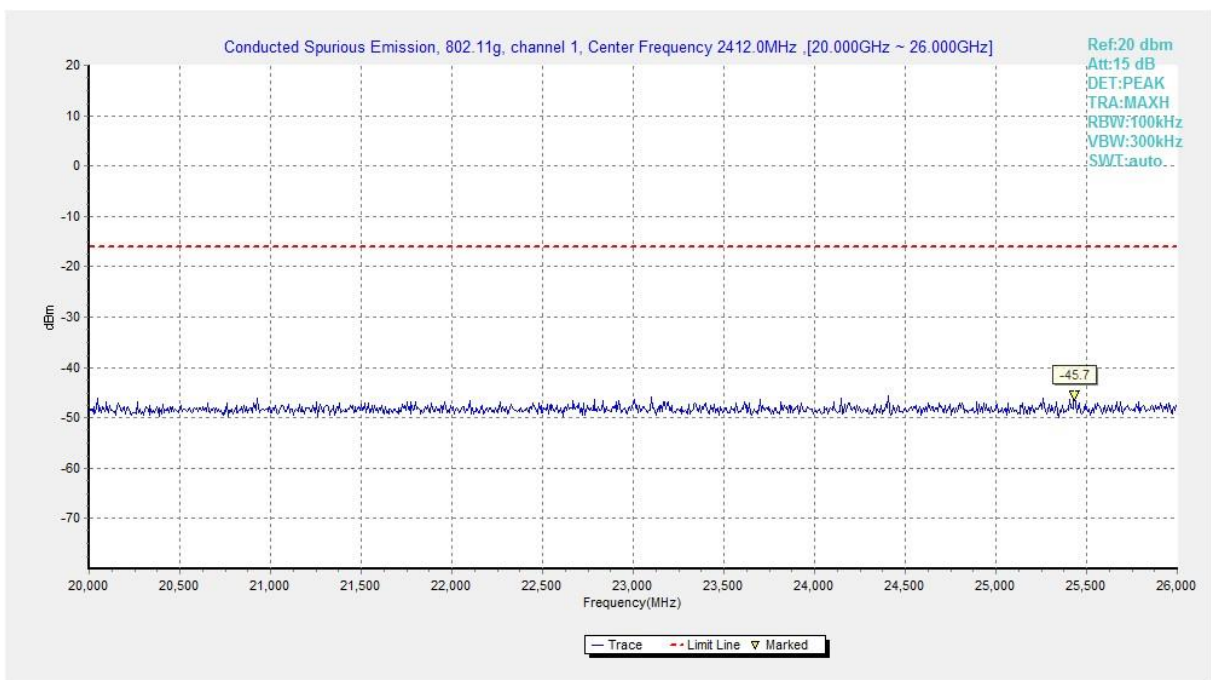
**Fig.A.6.1.29 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 7.5 GHz-10 GHz)**



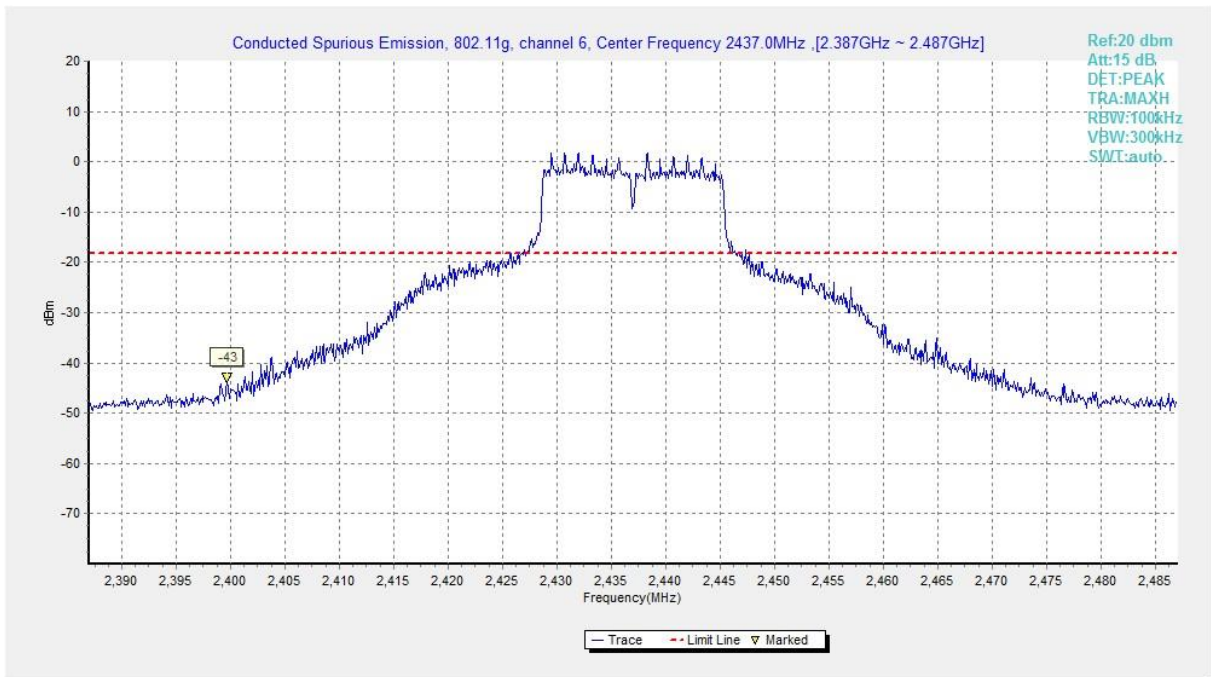
**Fig.A.6.1.30 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 10 GHz-15 GHz)**



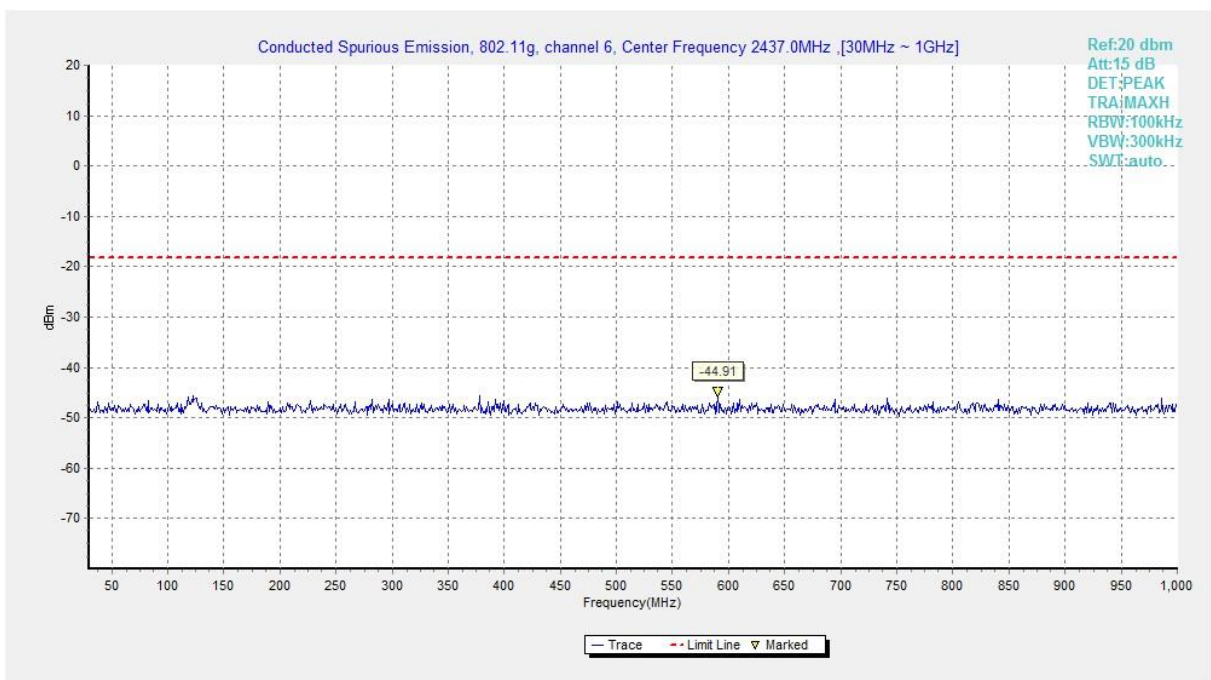
**Fig.A.6.1.31 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 15 GHz-20 GHz)**



**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)**

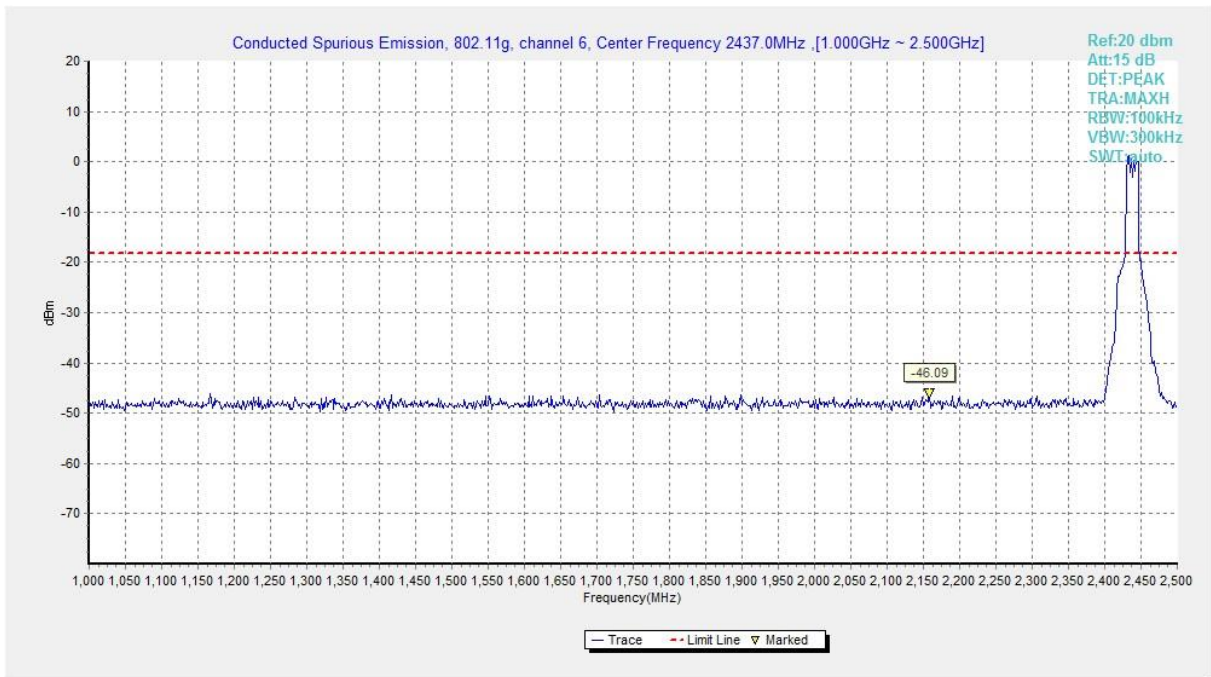


Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)

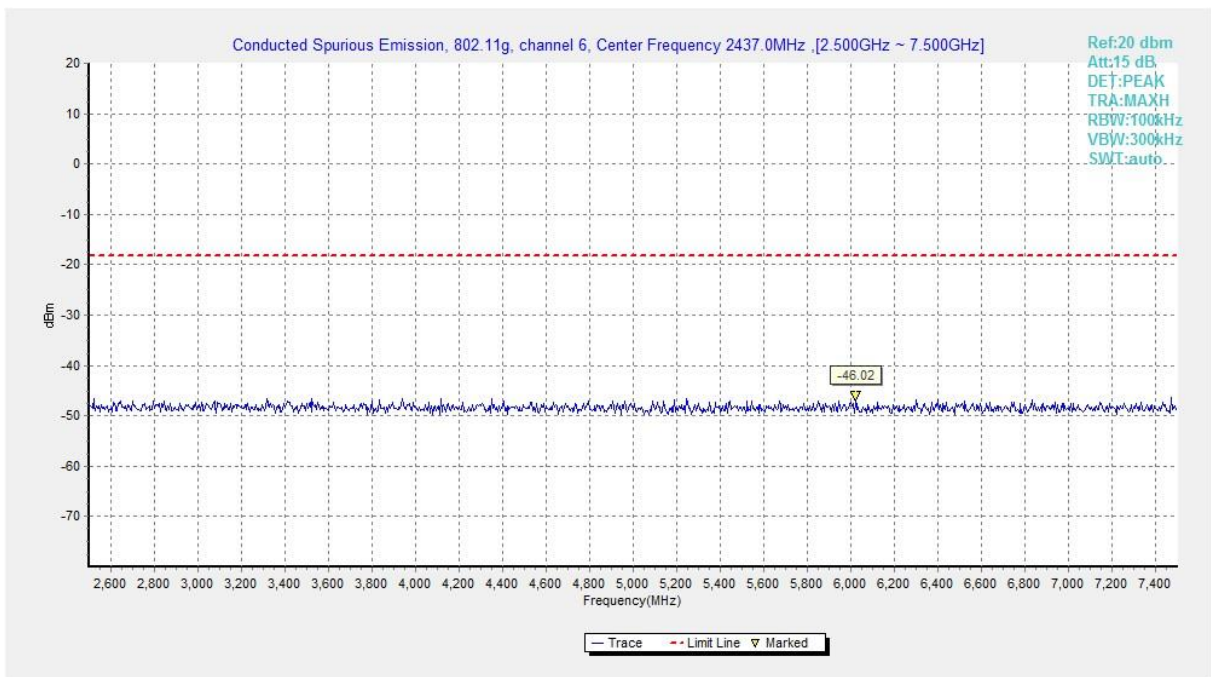
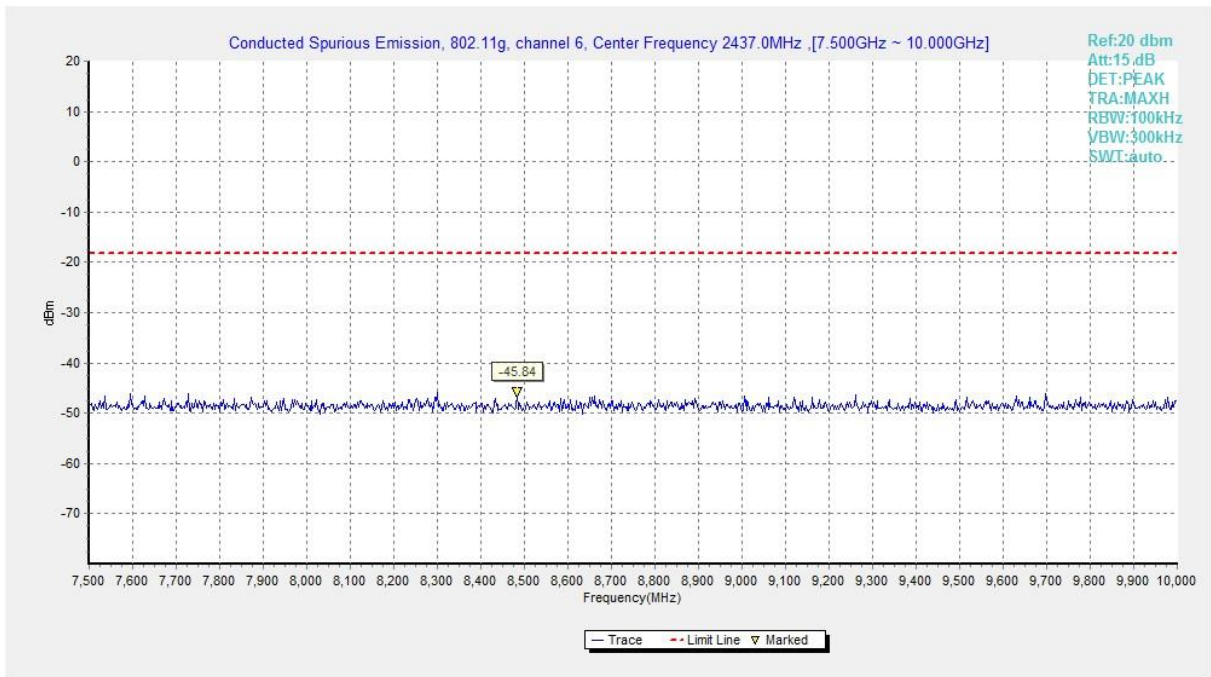
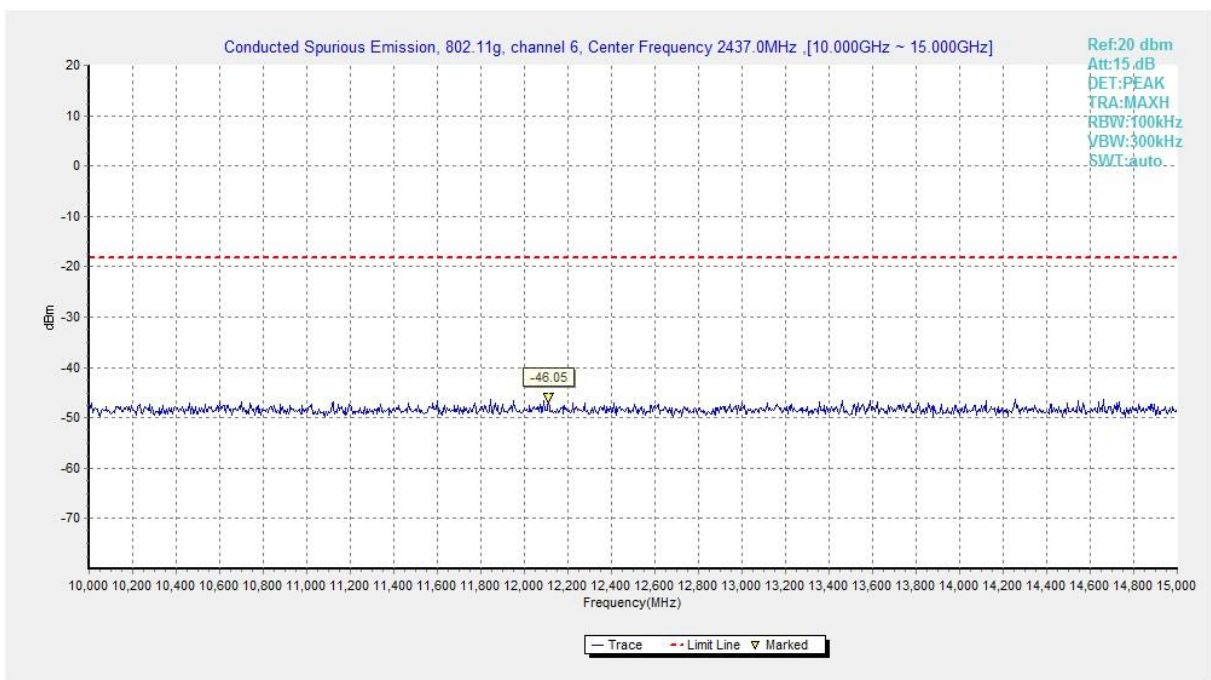


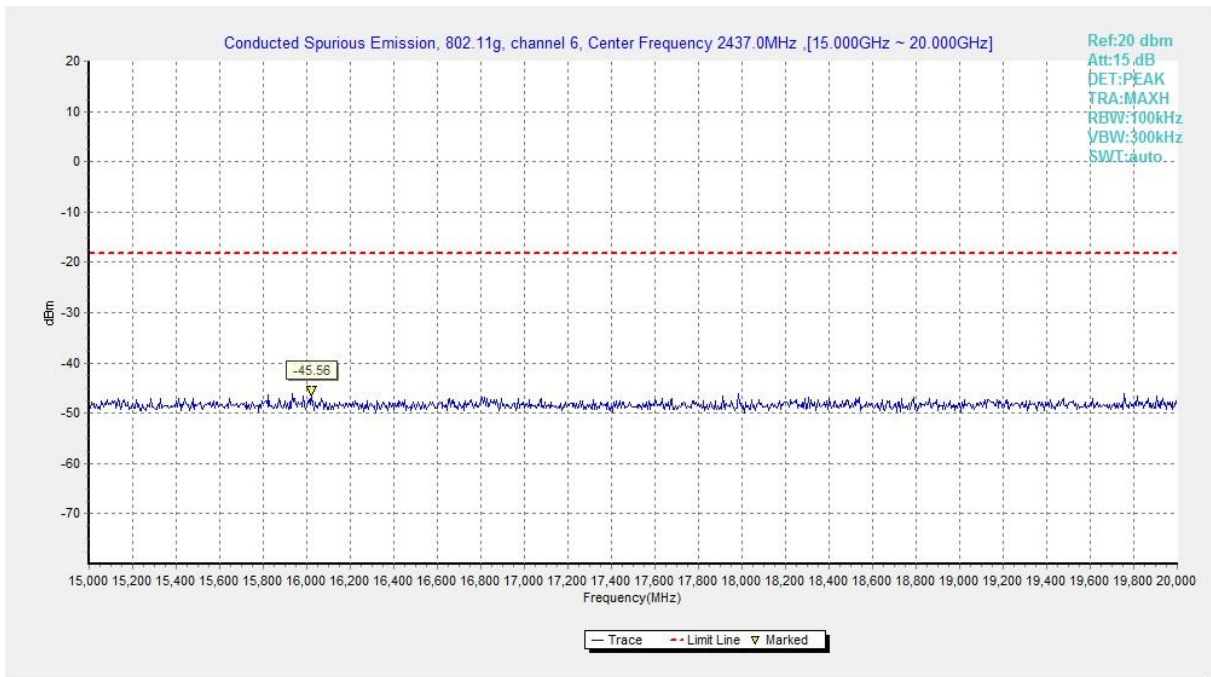
Fig.A.6.1.36 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 2.5 GHz-7.5 GHz)



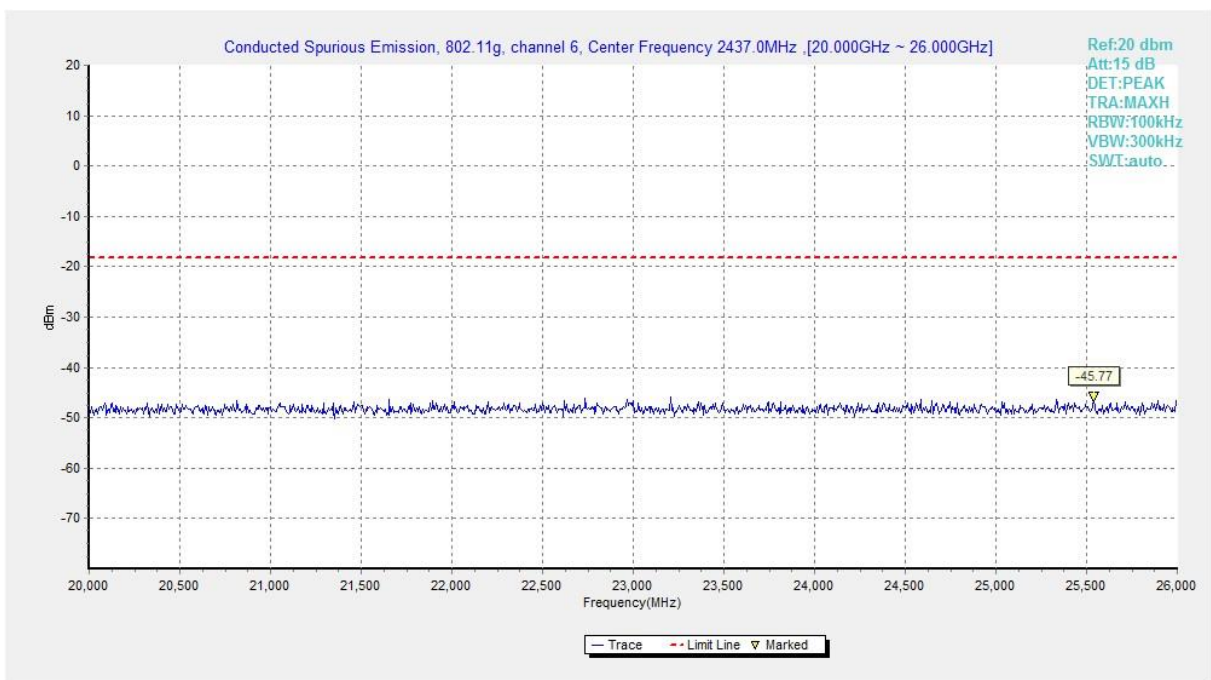
**Fig.A.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)**



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

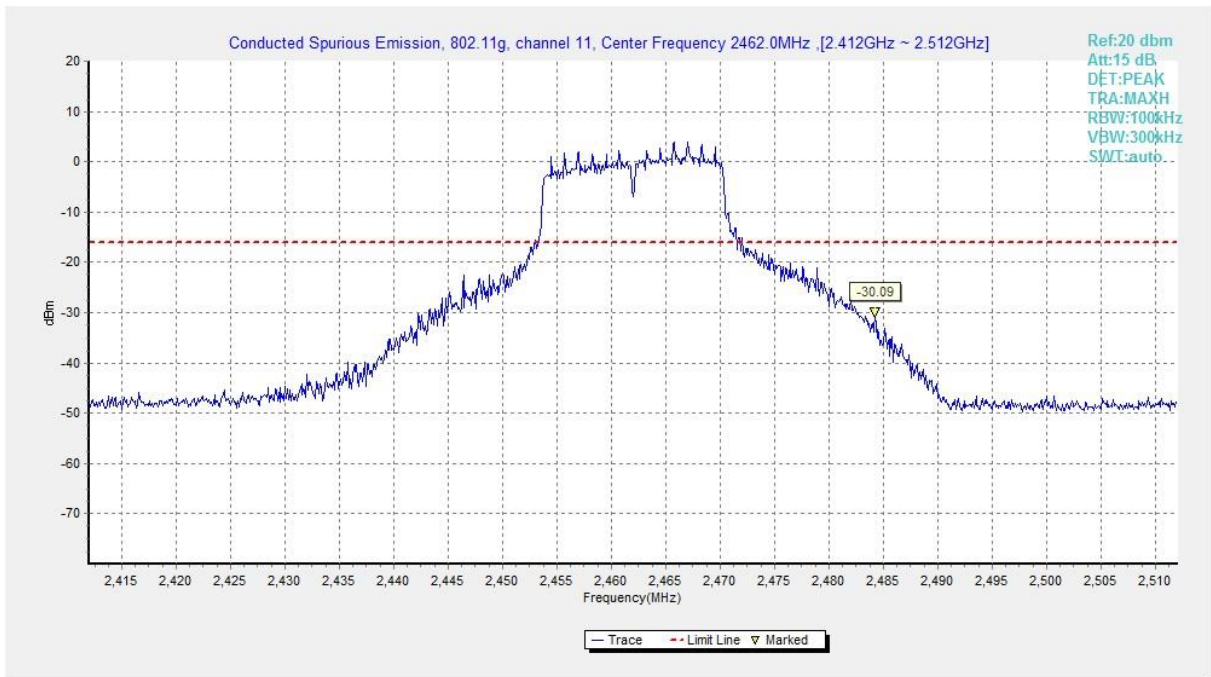


**Fig.A.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)**

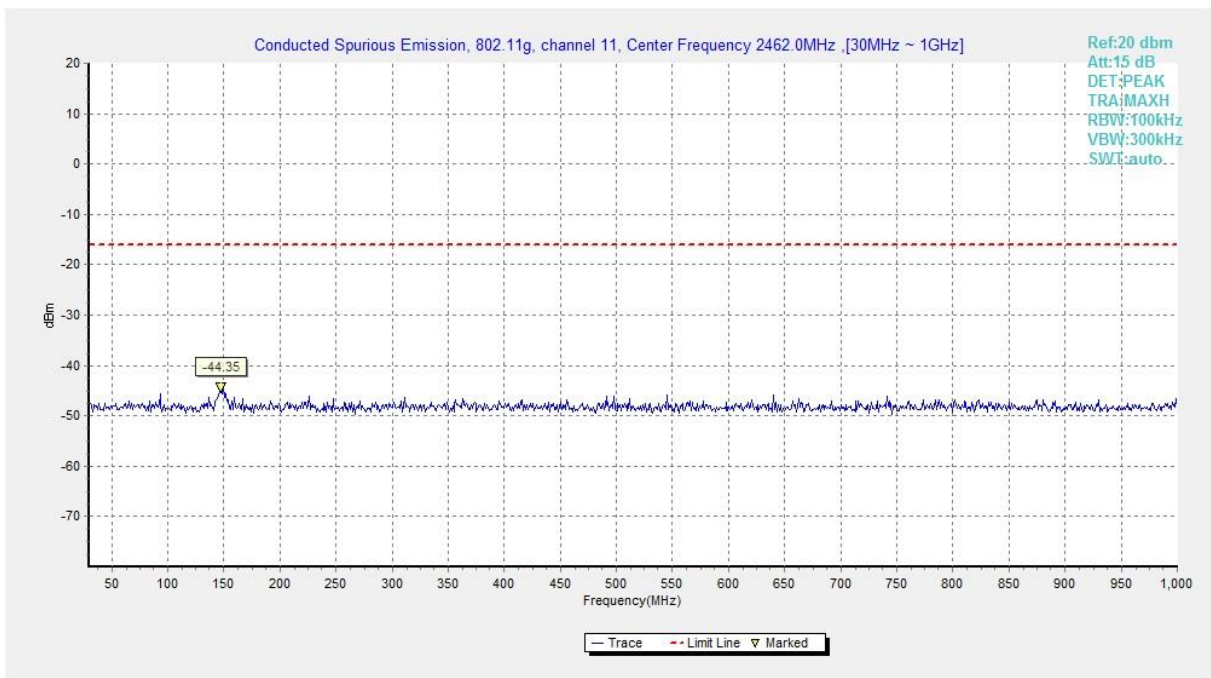


**Fig.A.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)**

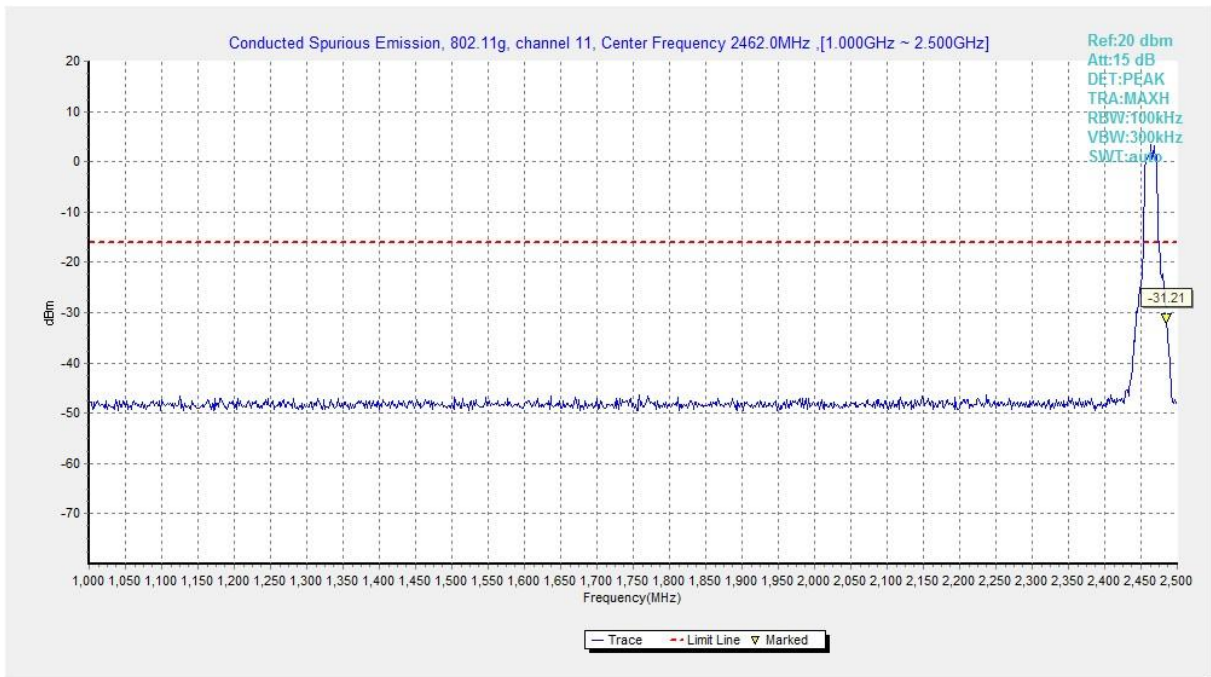




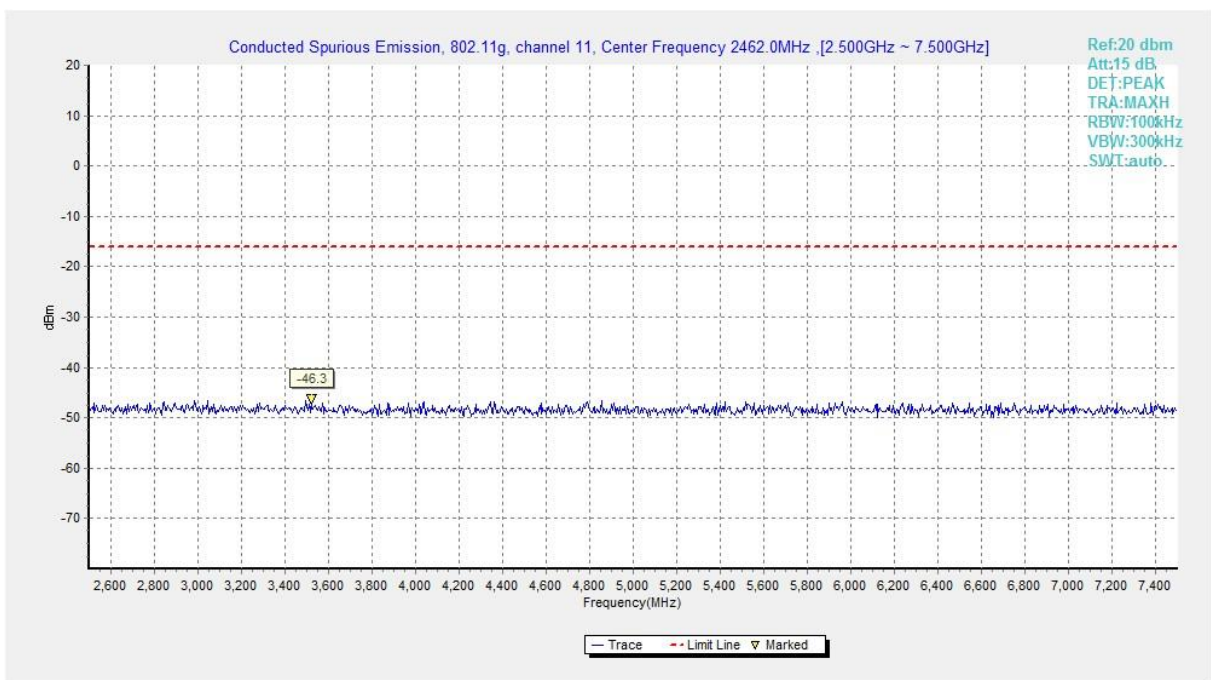
**Fig.A.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)**



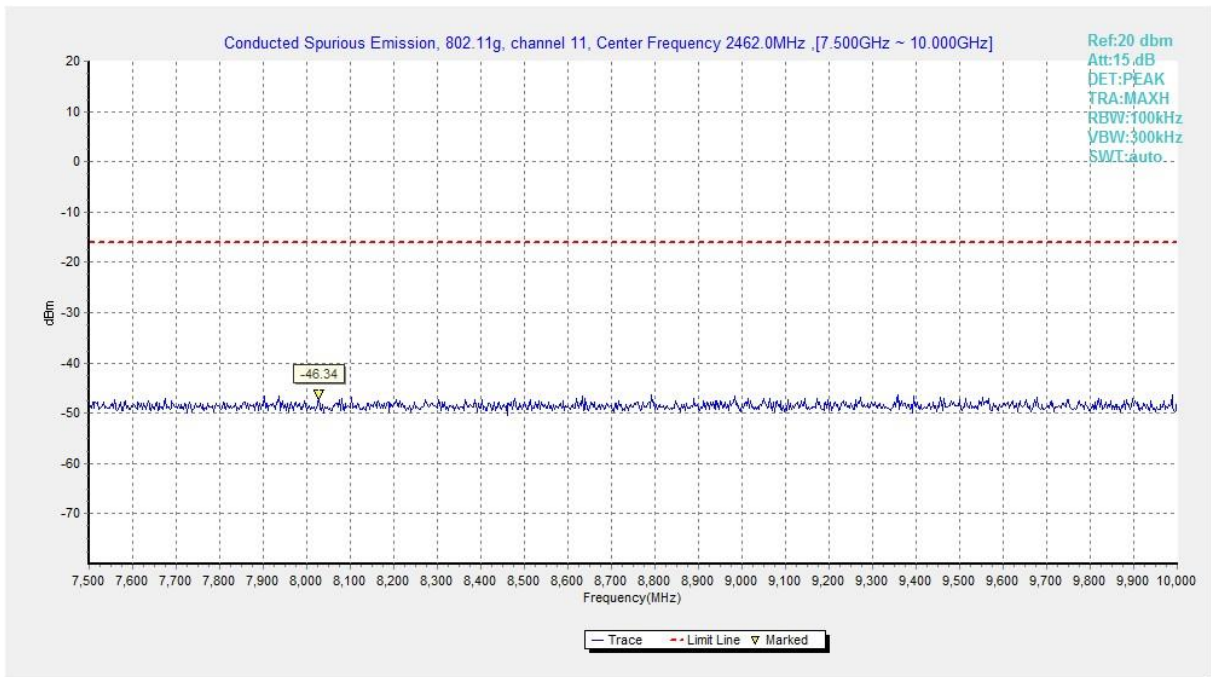
**Fig.A.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)**



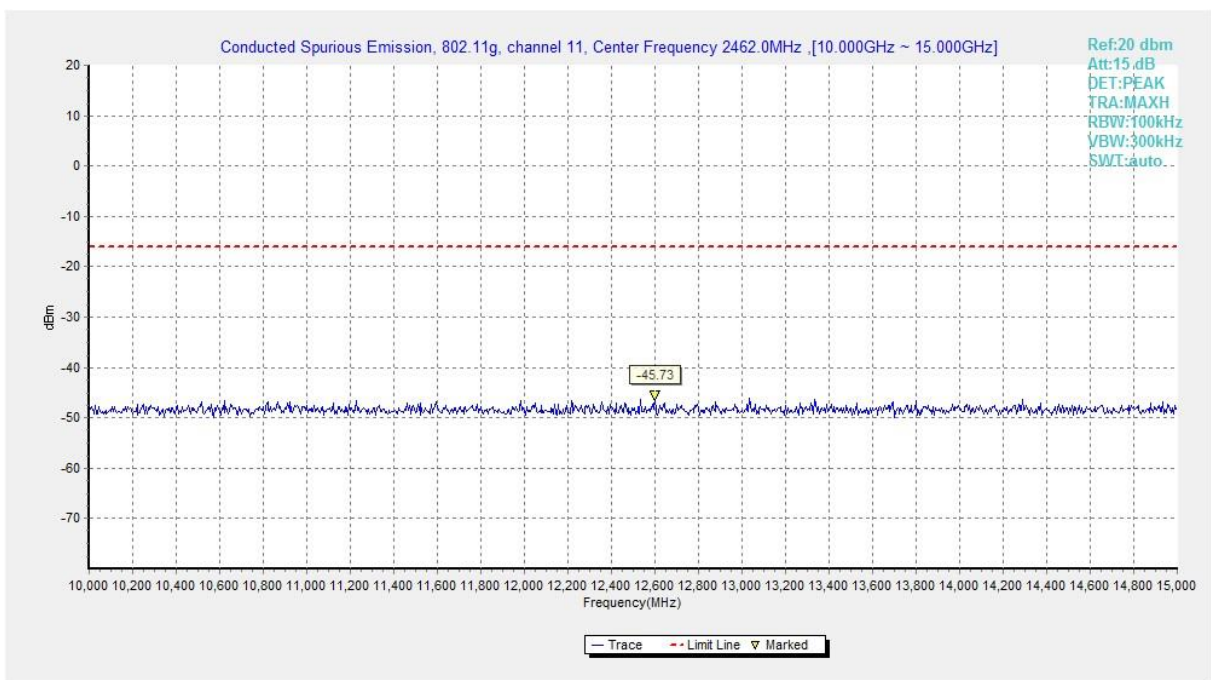
**Fig.A.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)**



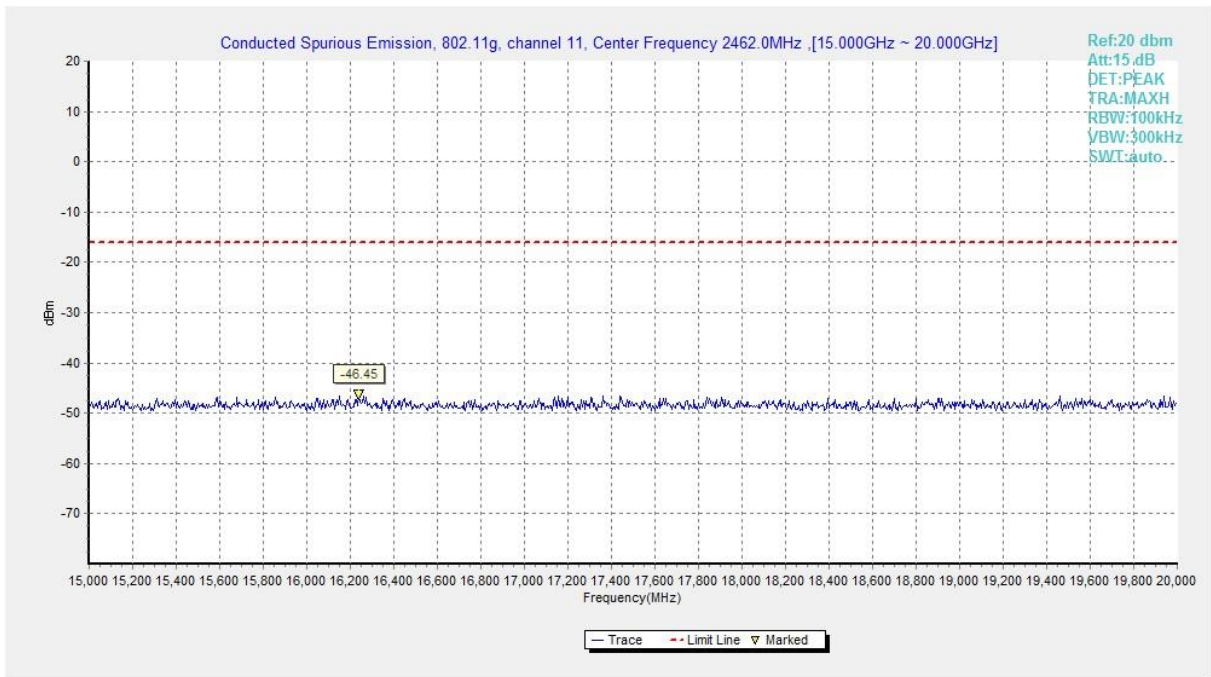
**Fig.A.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)**



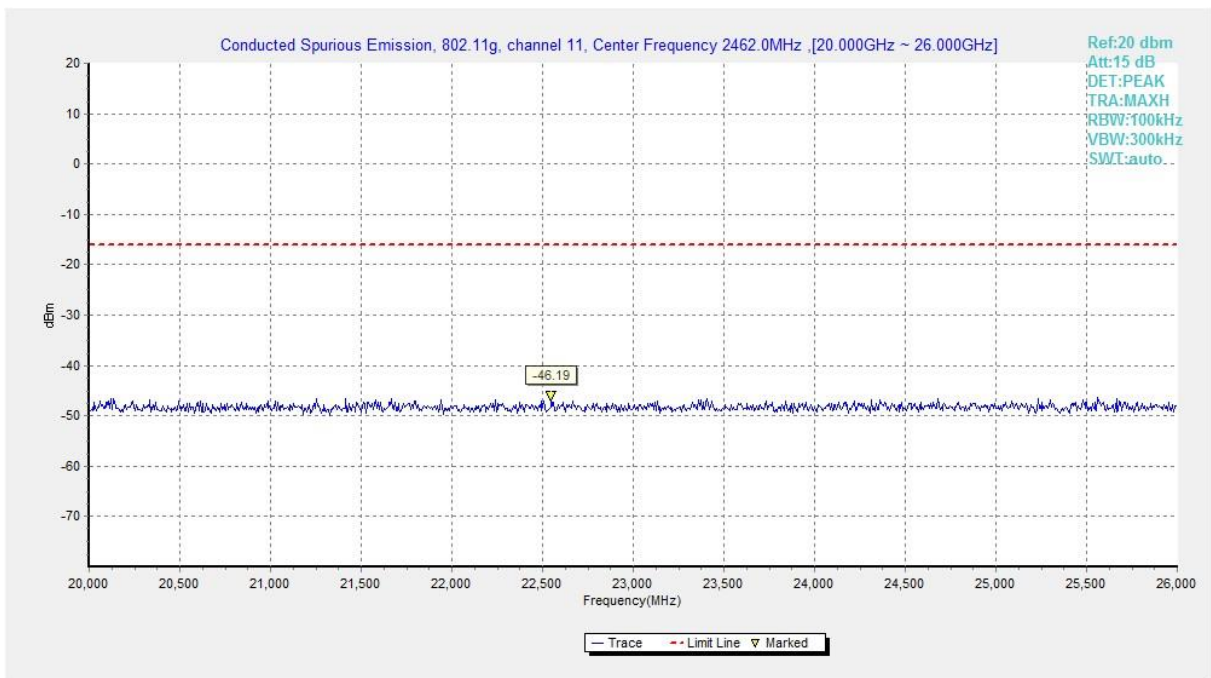
**Fig.A.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)**



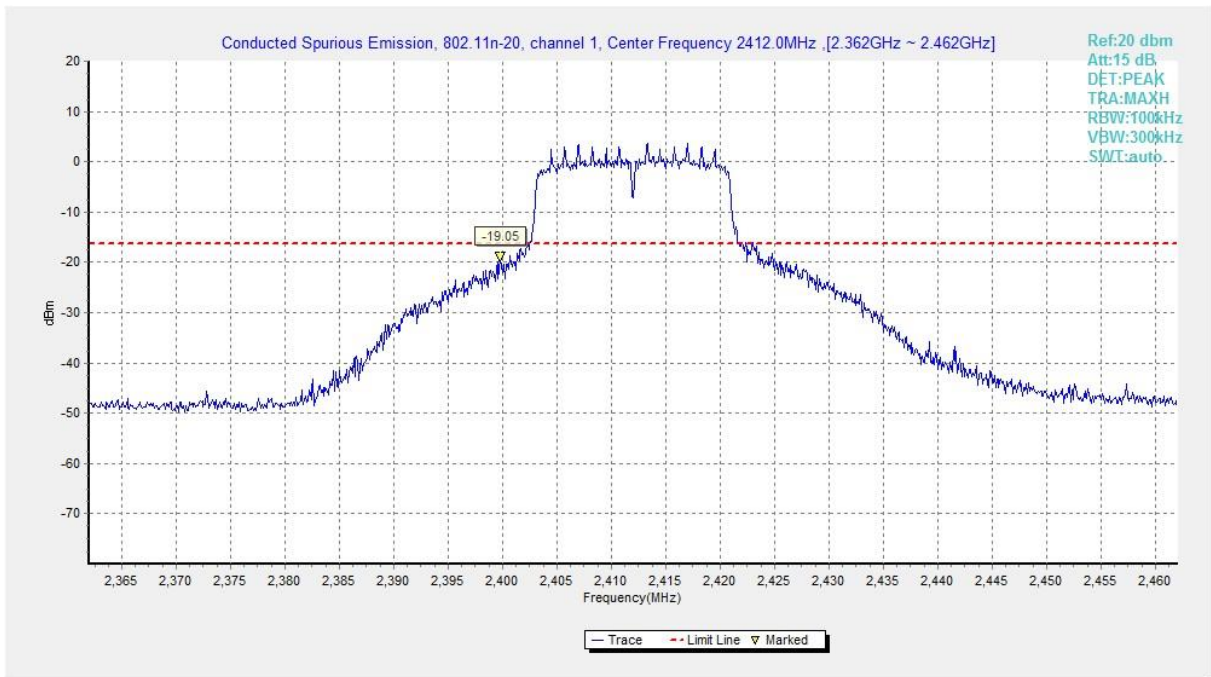
**Fig.A.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)**



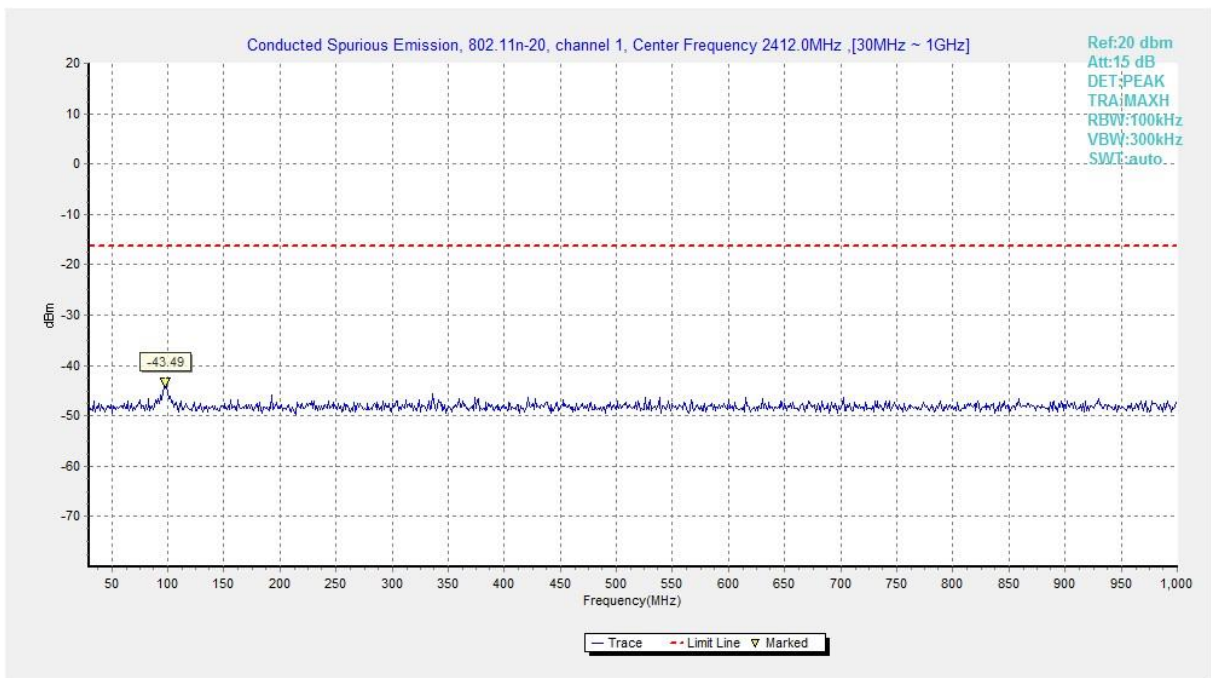
**Fig.A.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)**



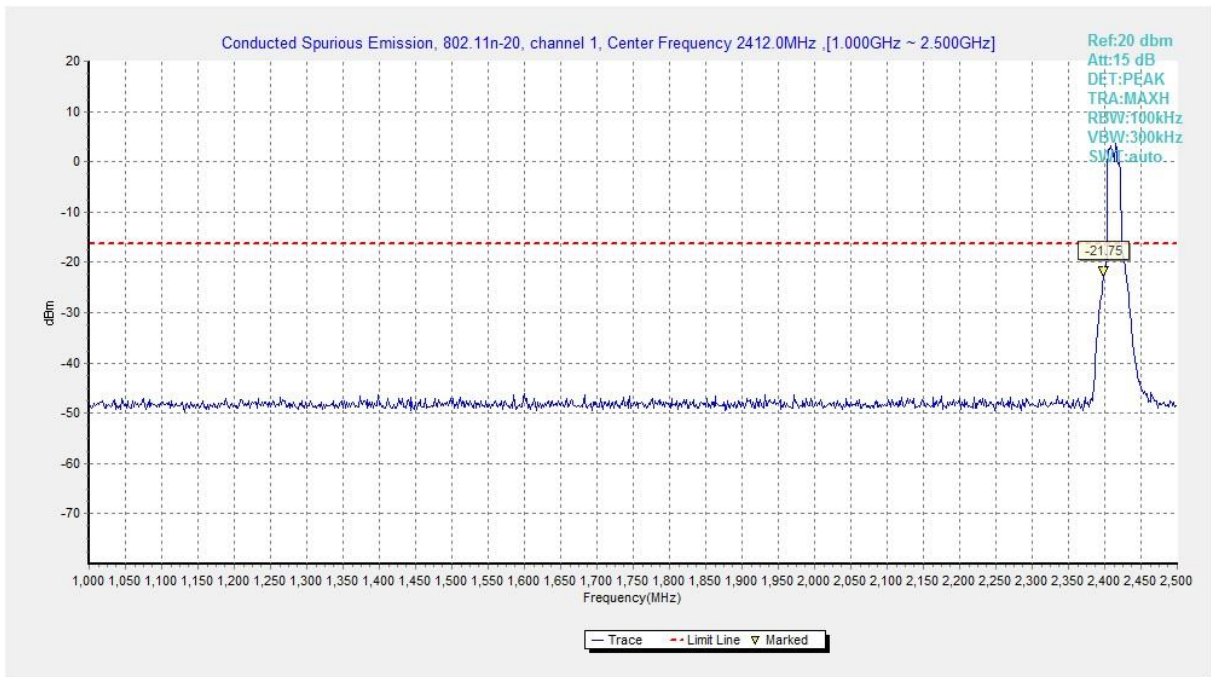
**Fig.A.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)**



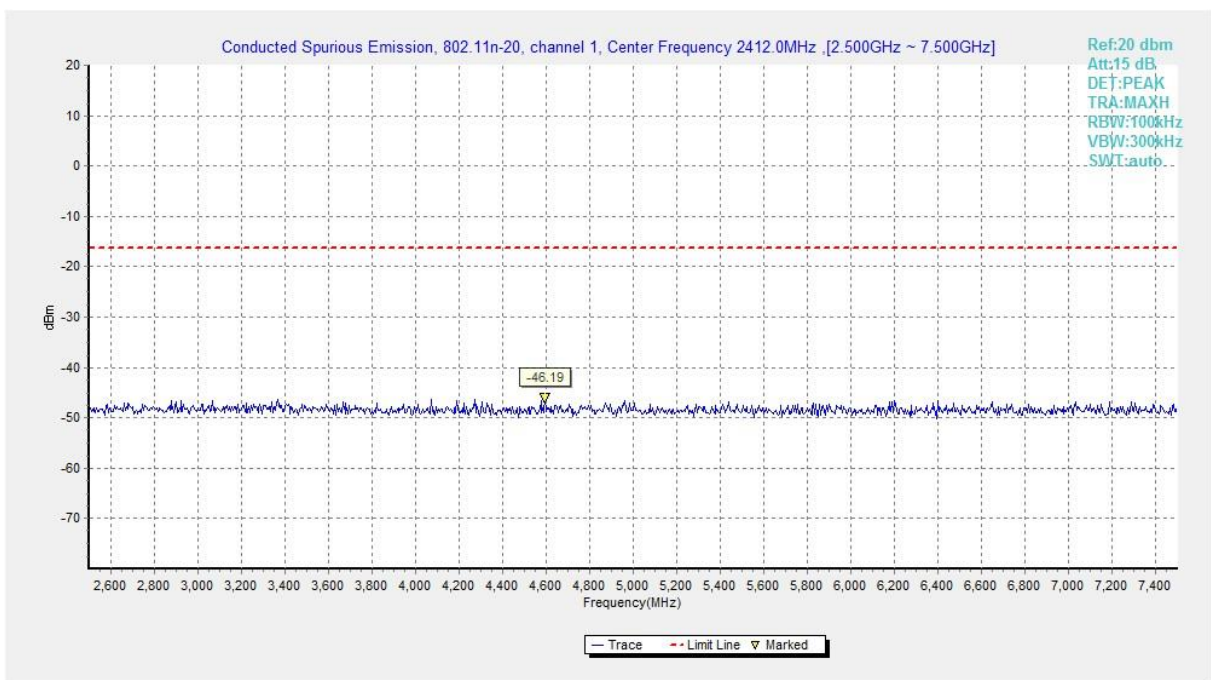
**Fig.A.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)**



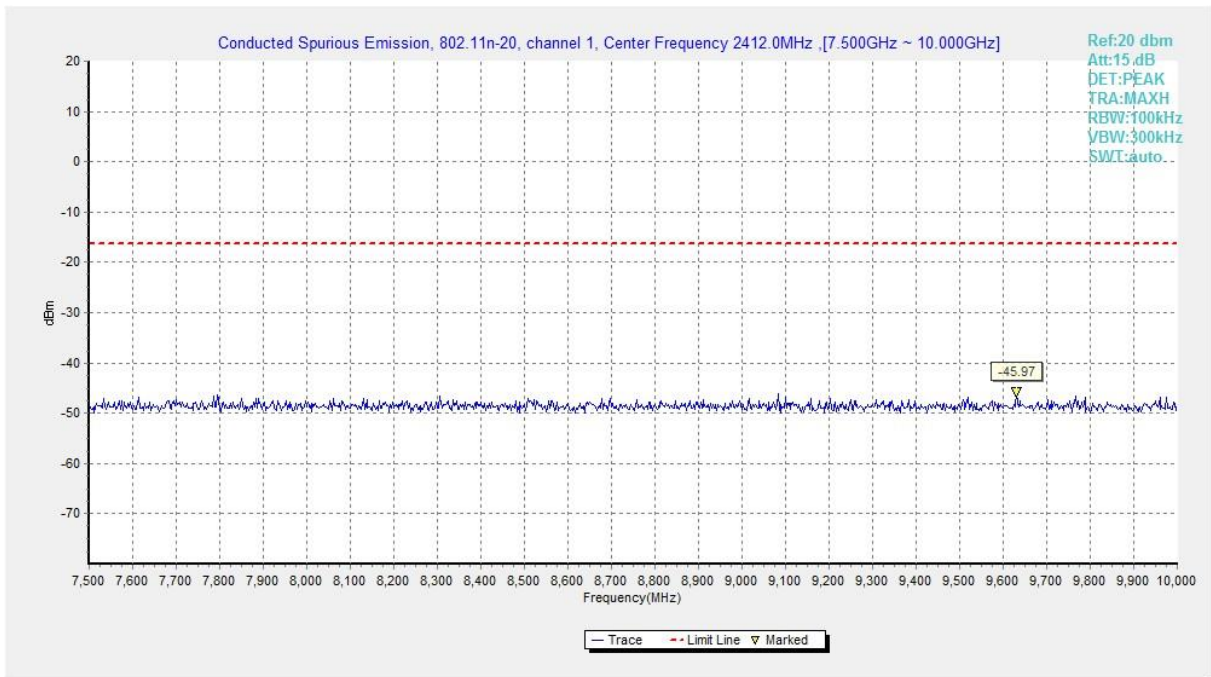
**Fig.A.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)**



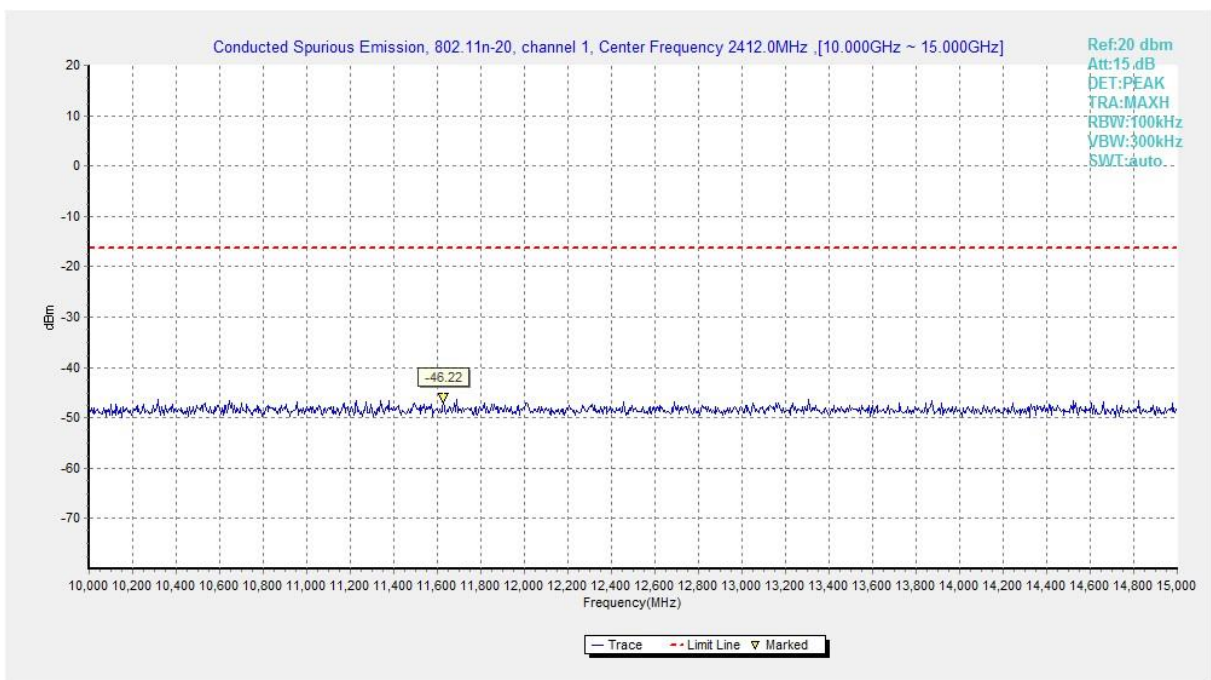
**Fig.A.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)**



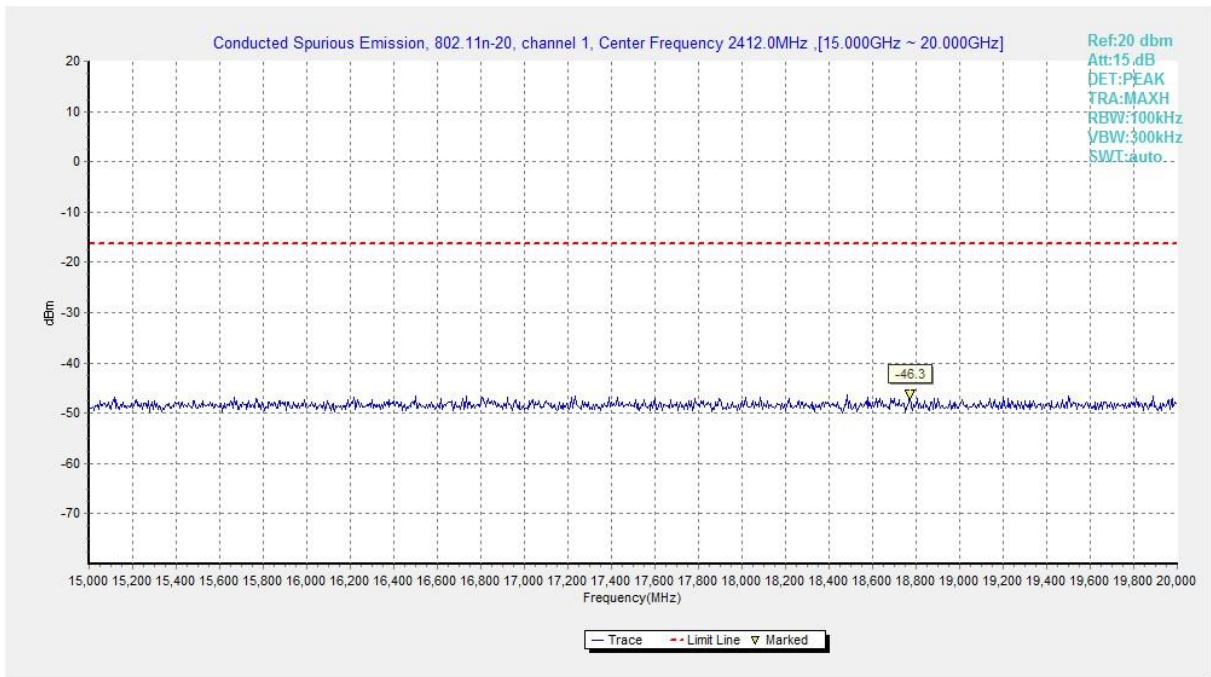
**Fig.A.6.1.52 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)**



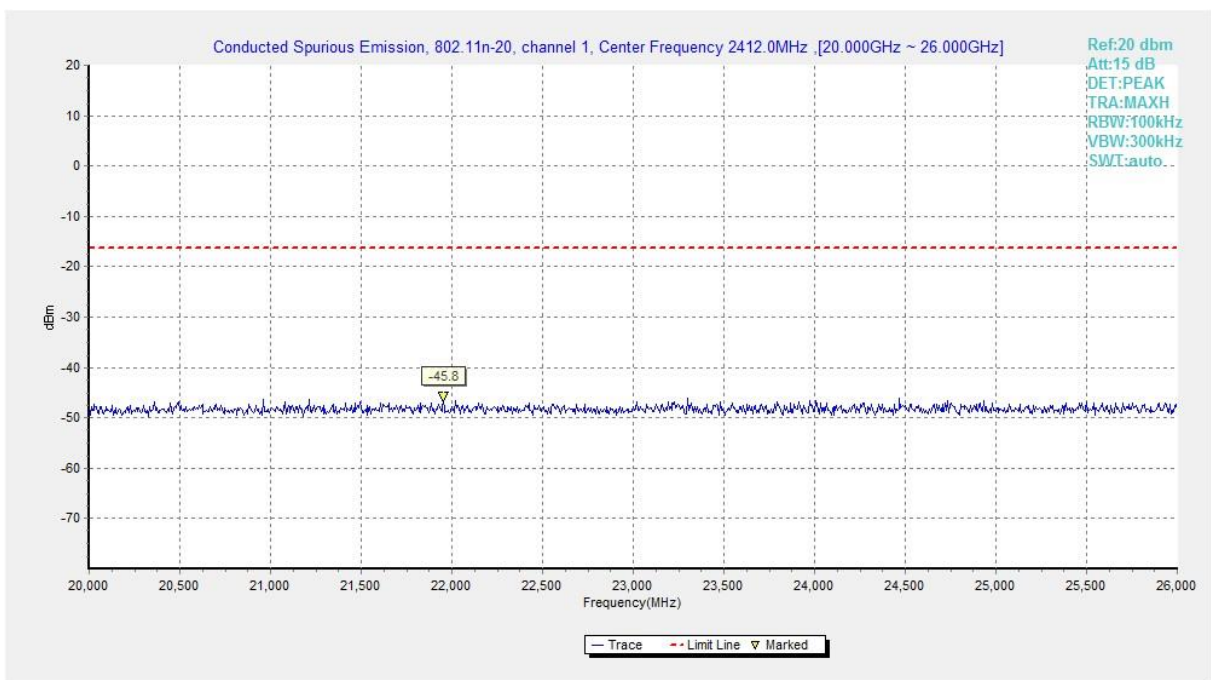
**Fig.A.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)**



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

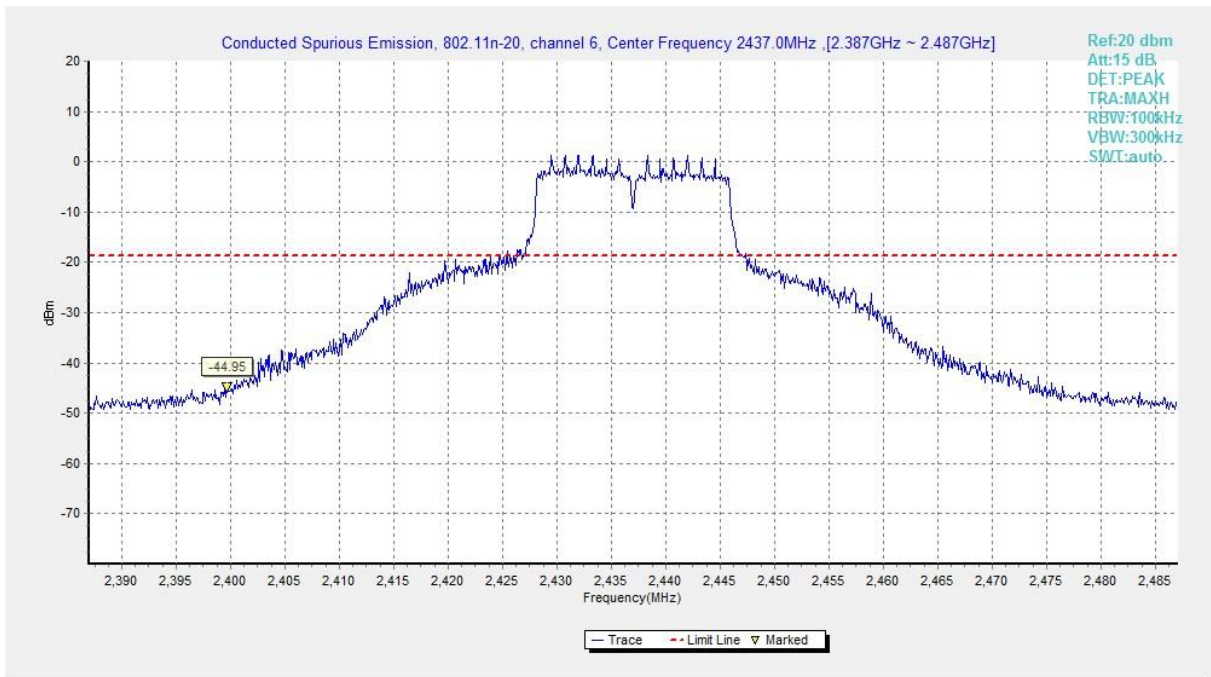


**Fig.A.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)**

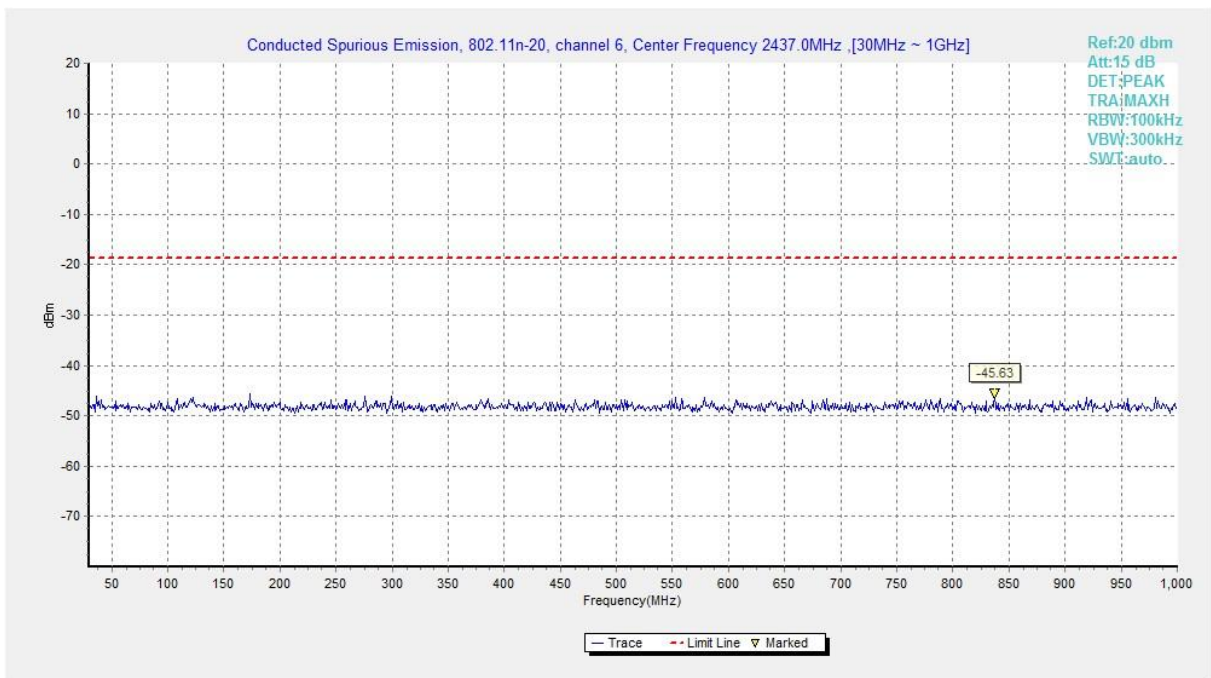


**Fig.A.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)**

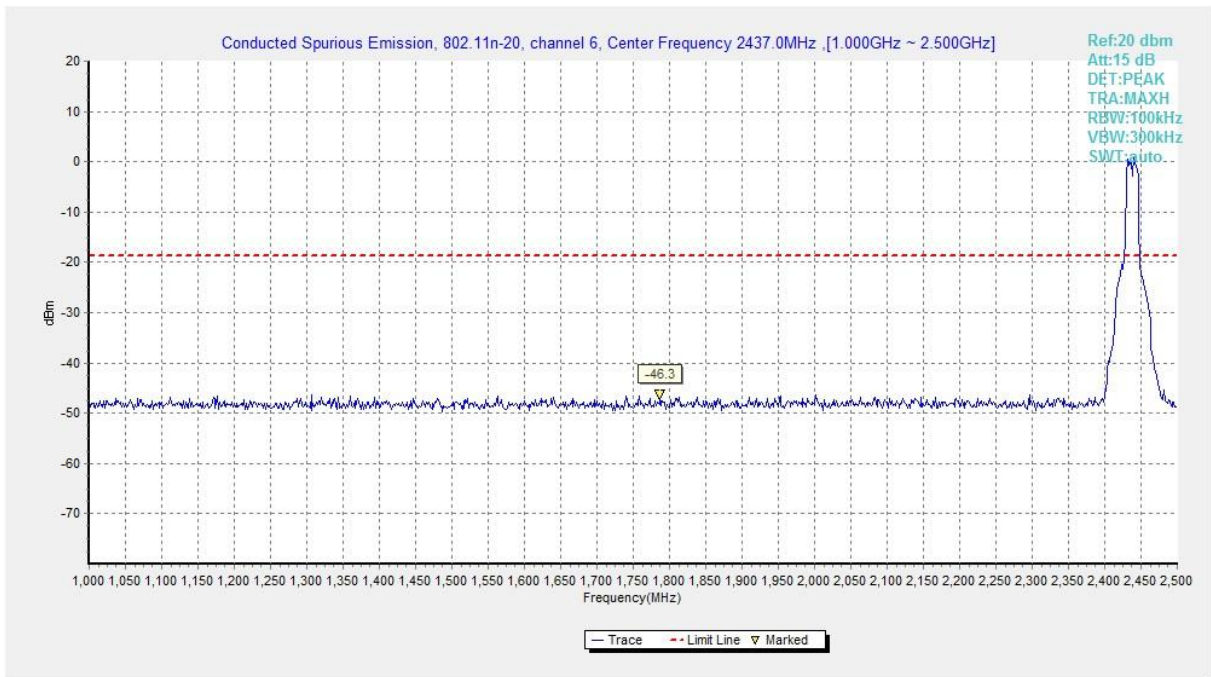




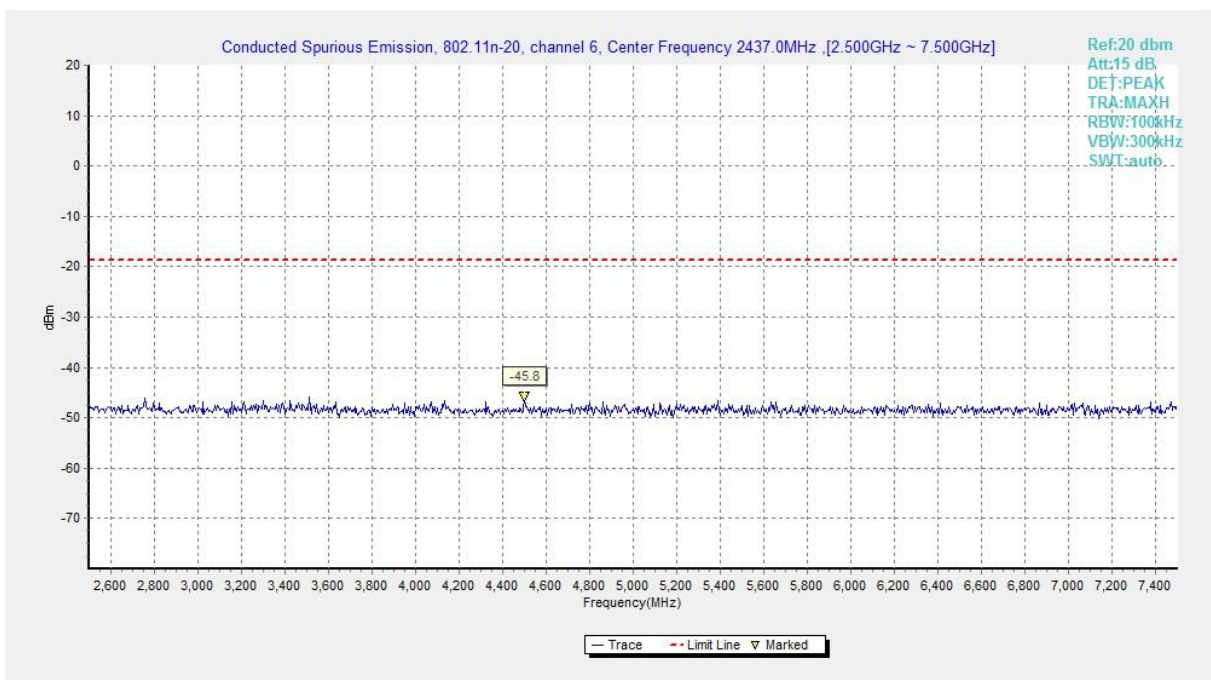
**Fig.A.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)**



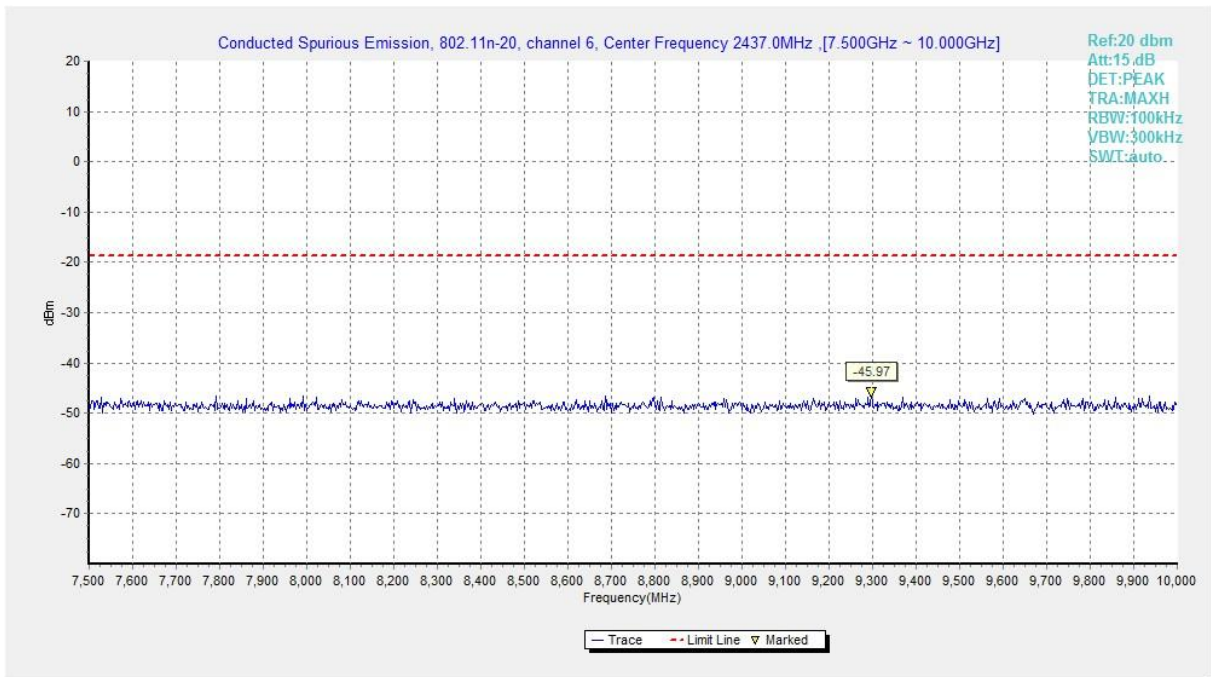
**Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)**



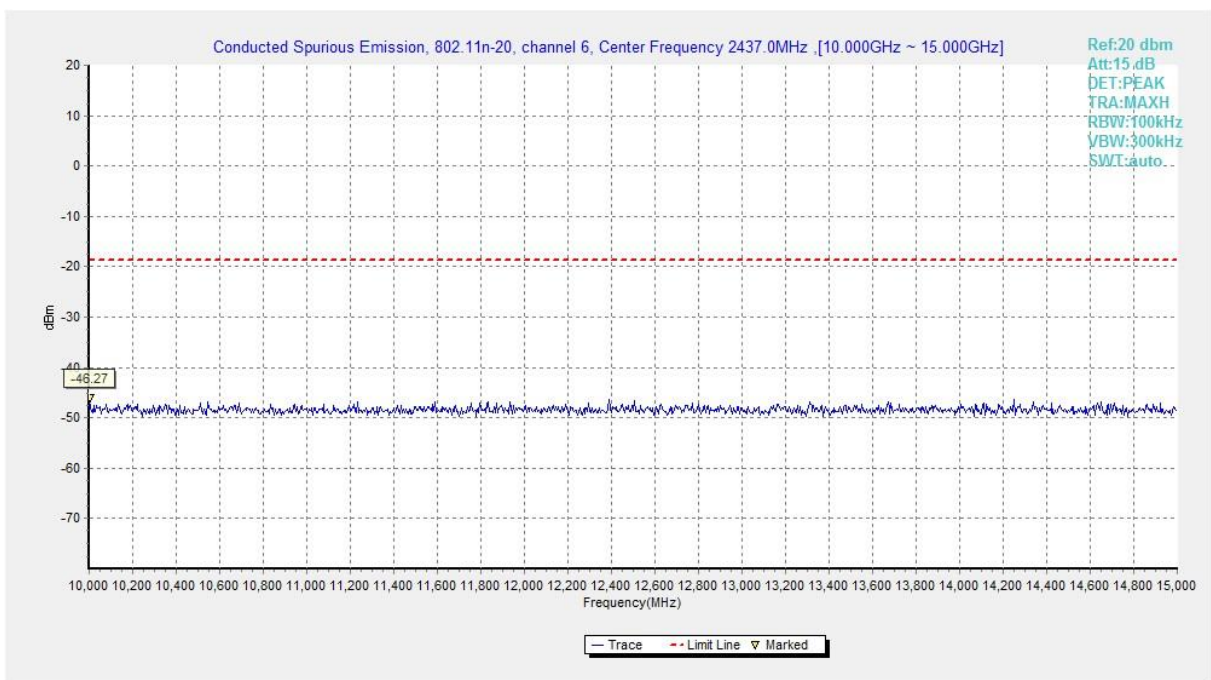
**Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)**



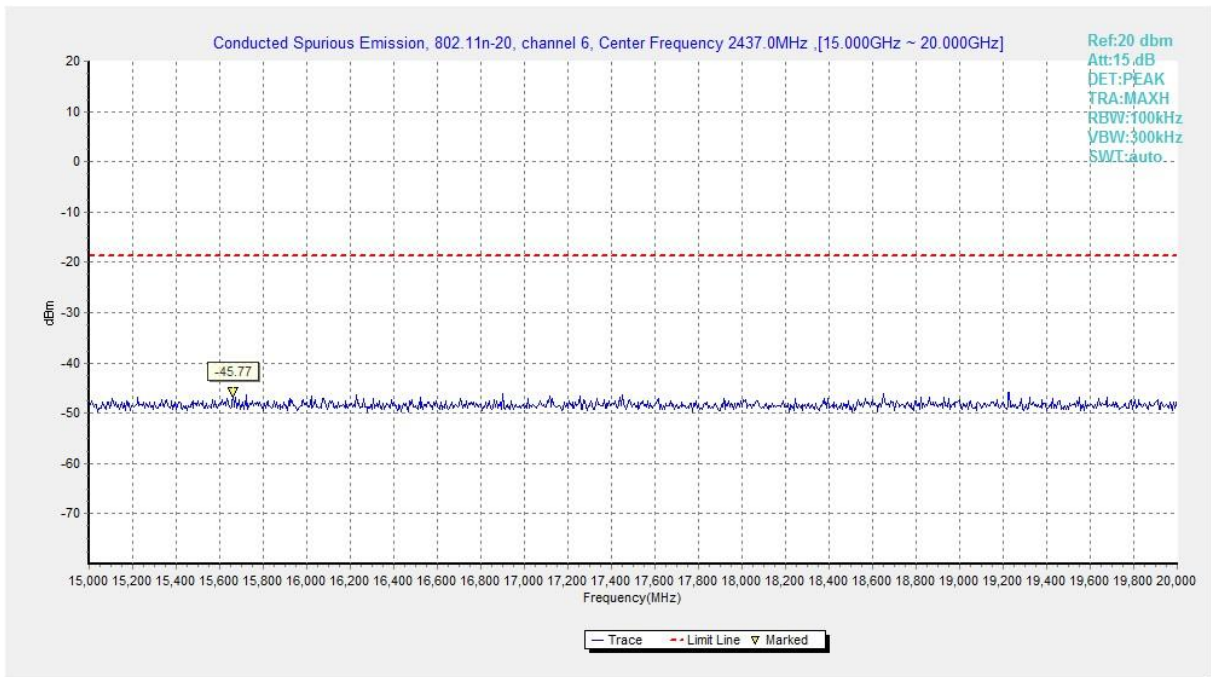
**Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)**



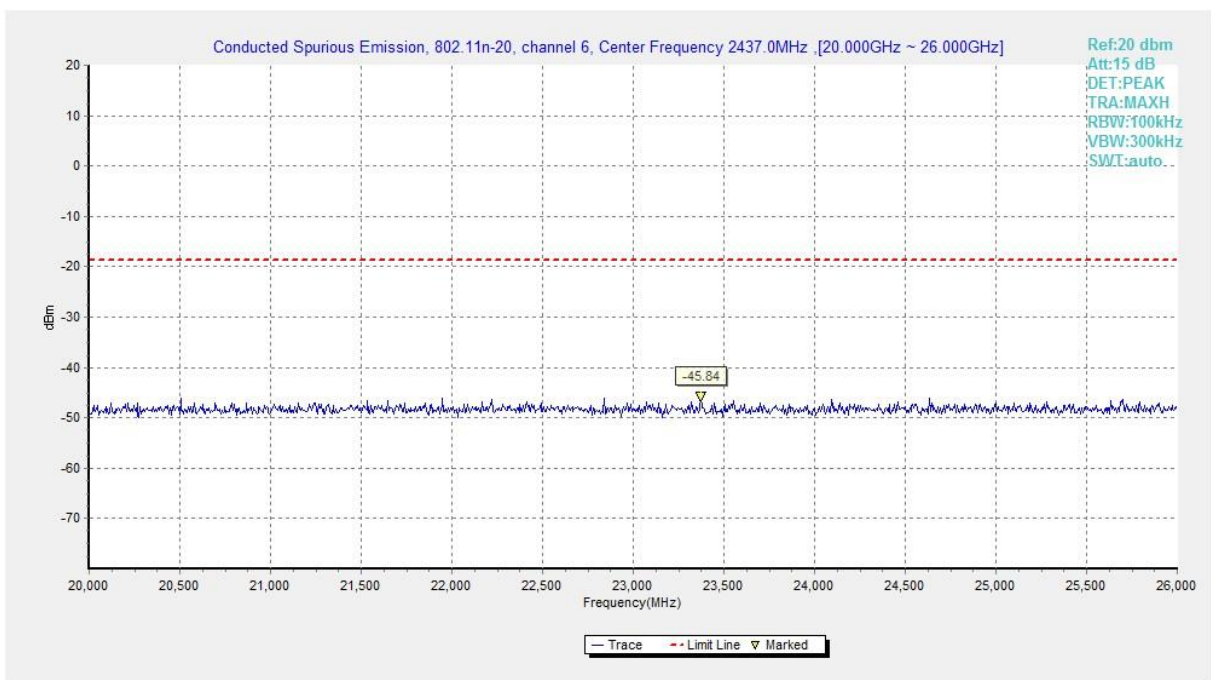
**Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)**



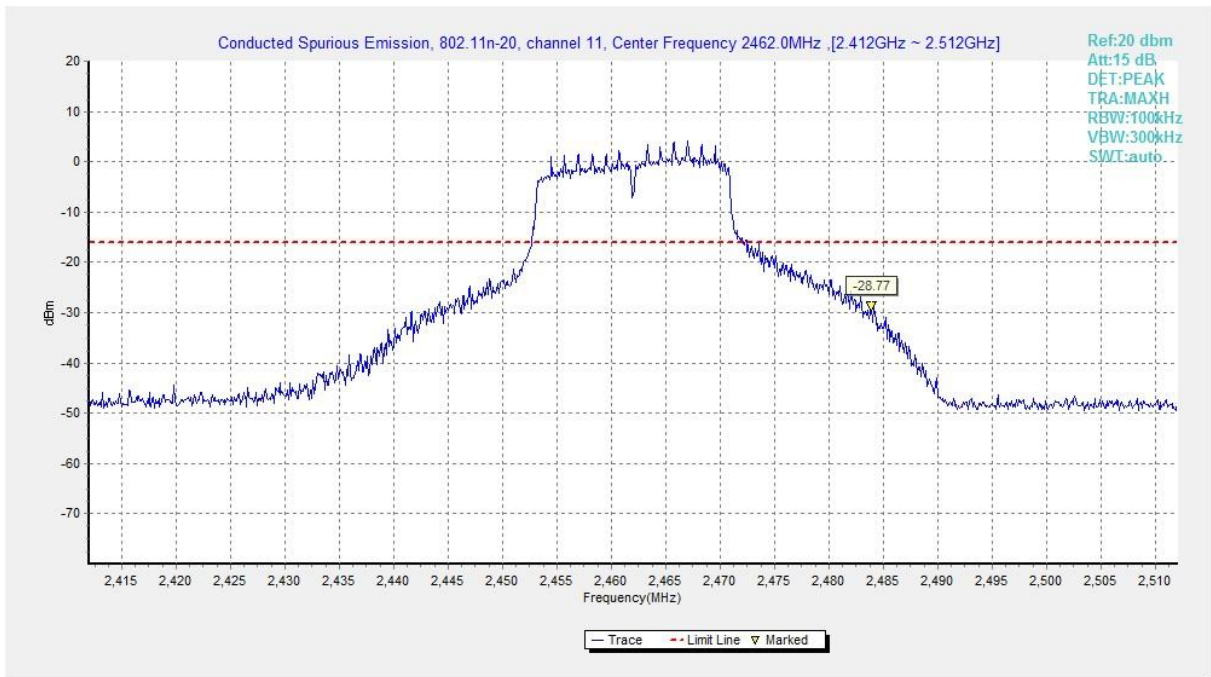
**Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)**



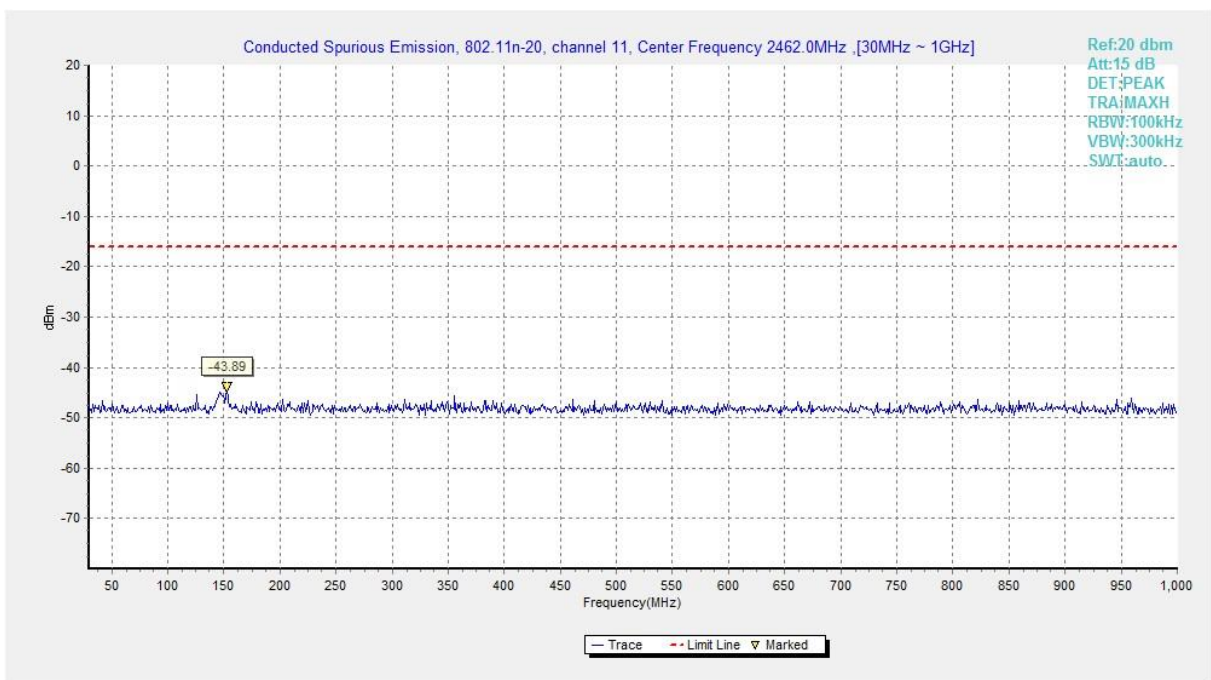
**Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)**



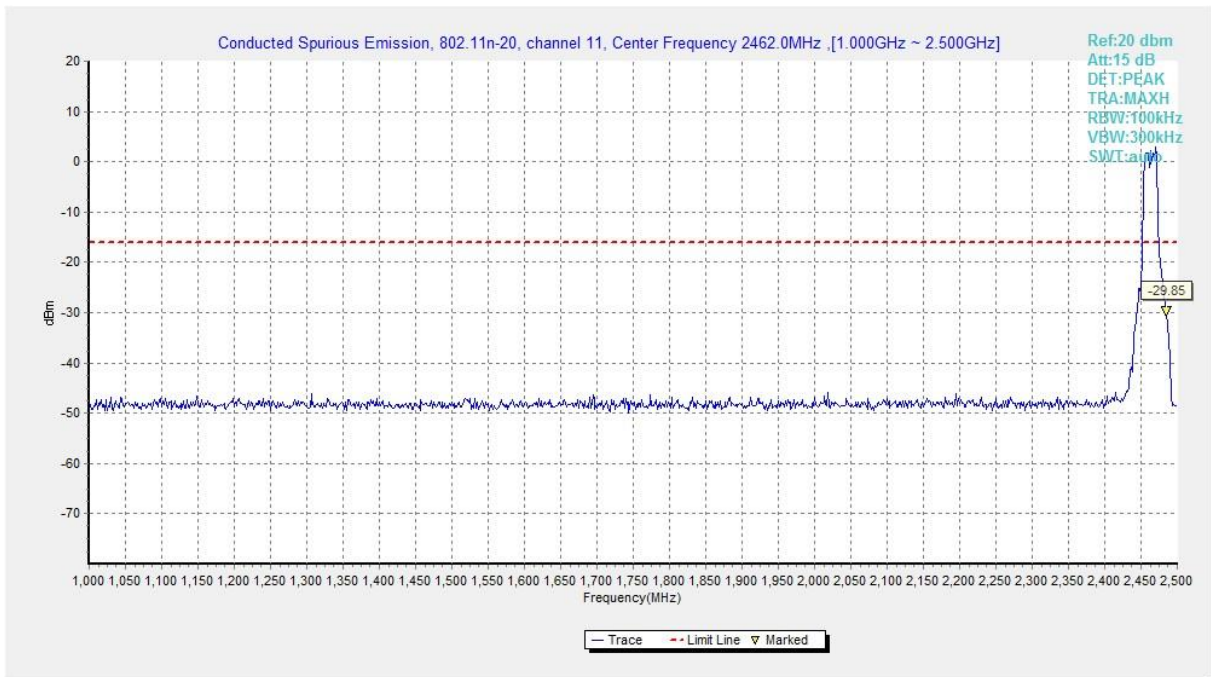
**Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)**



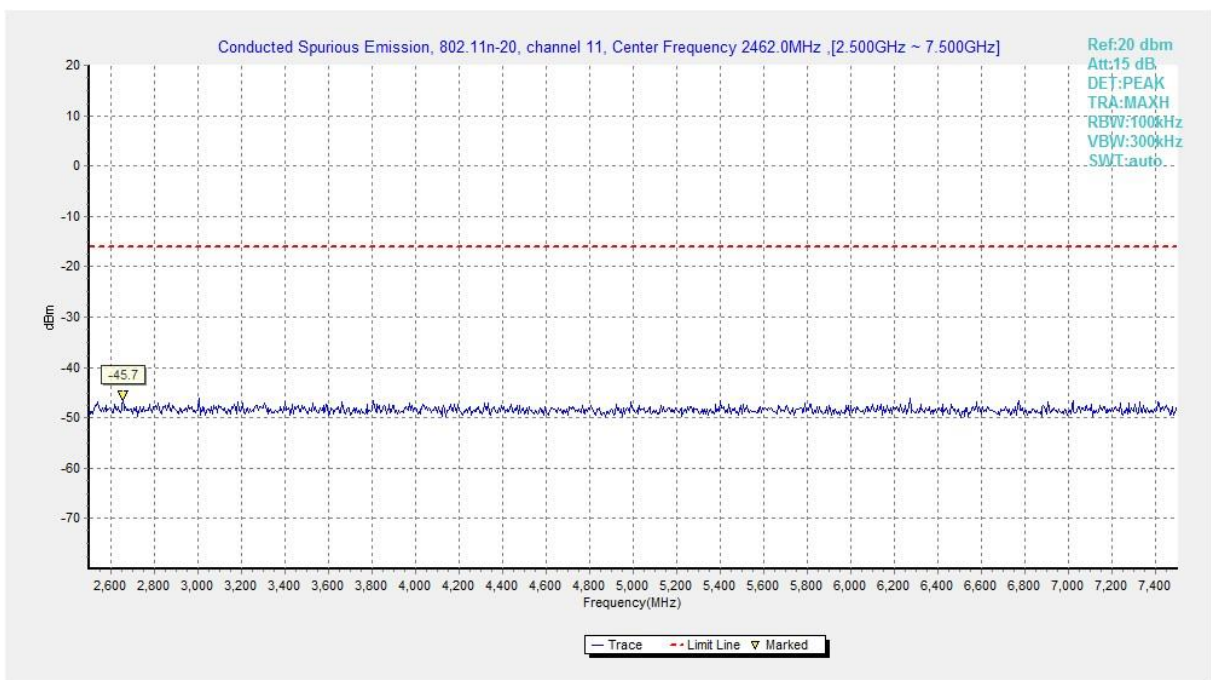
**Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)**



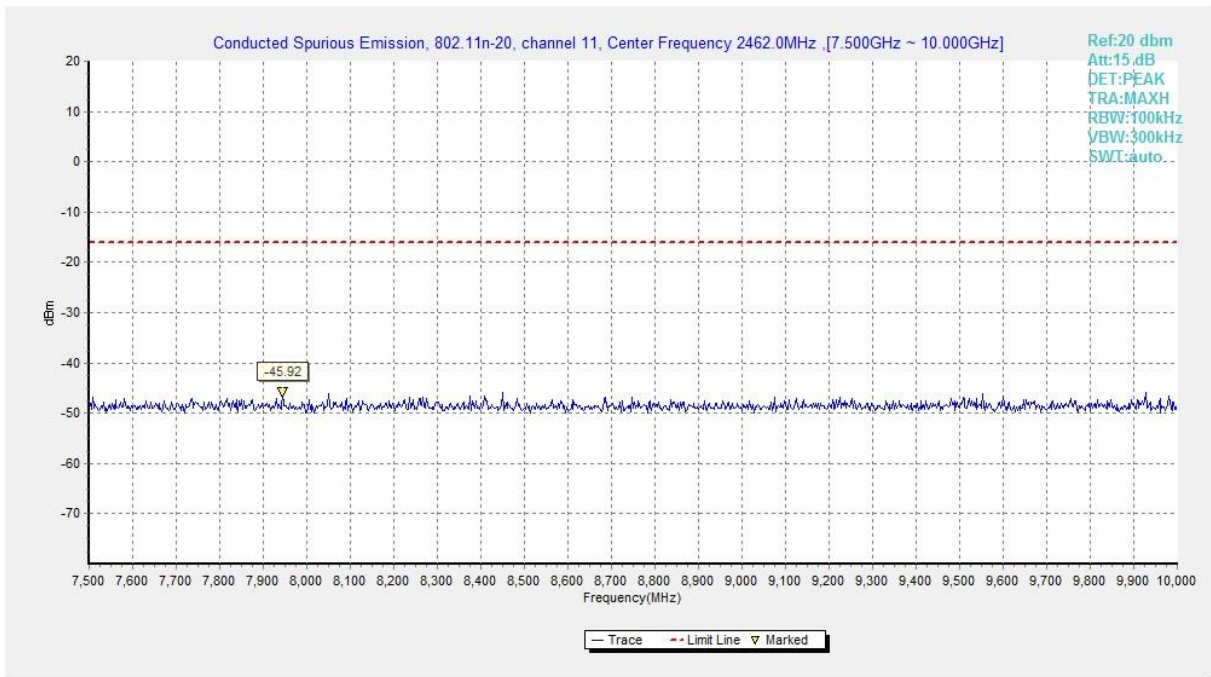
**Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



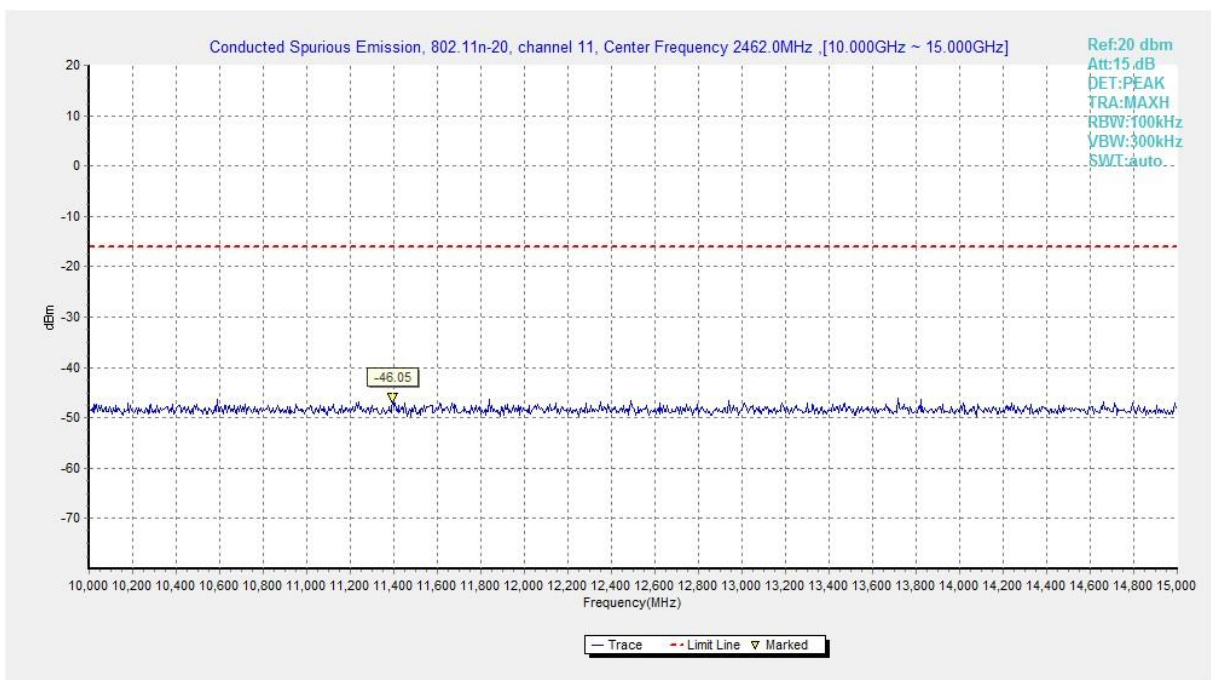
**Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)**



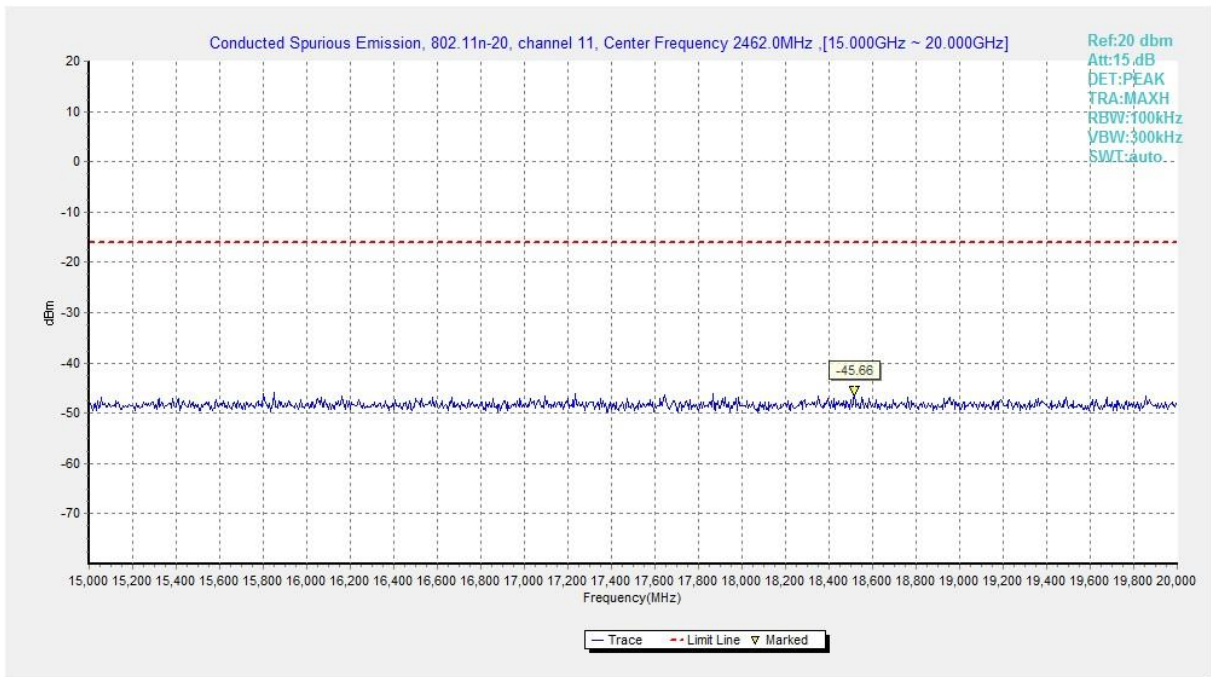
**Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)**



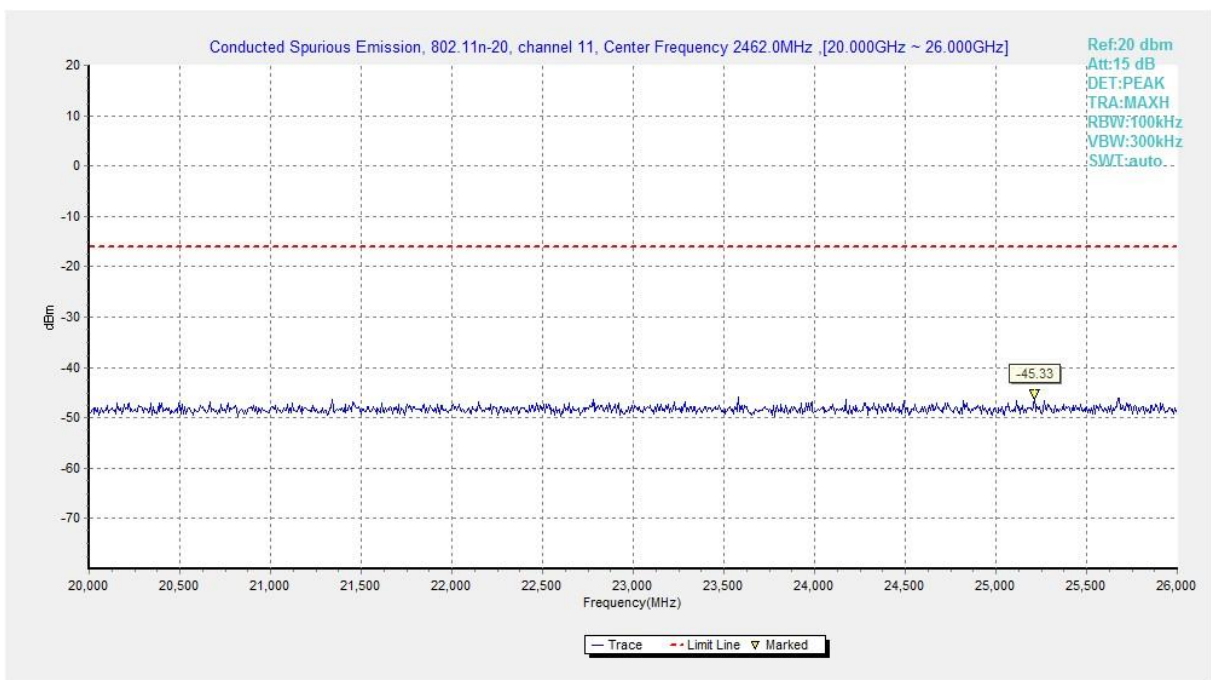
**Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)**



**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(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( $\mu$ 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: UT01a**

**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)
17509.500	50.96	-26.90	45.20	32.56	74.00	23.04	H
14322.000	46.51	-28.40	42.30	32.61	74.00	27.49	V
9648.000	44.62	-33.10	38.00	39.72	74.00	29.38	V
12510.500	44.62	-31.20	38.90	36.92	74.00	29.38	V
7238.000	42.01	-35.50	36.40	41.11	74.00	31.99	V
2387.600	52.39	-20.00	28.10	44.39	74.00	21.61	V

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)
17871.500	50.43	-25.50	46.70	29.23	74.00	23.57	V
14491.000	47.10	-28.60	42.50	33.20	74.00	26.90	H
12539.000	44.66	-31.00	39.00	36.76	74.00	29.34	V
9748.000	44.62	-33.00	38.00	39.62	74.00	29.38	V
7310.000	42.18	-35.00	36.50	40.58	74.00	31.82	V
4874.000	41.12	-37.20	33.20	45.12	74.00	32.88	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)
17524.500	50.71	-26.90	45.20	32.31	74.00	23.29	H
14373.500	46.85	-28.40	42.30	32.95	74.00	27.15	V
12543.000	44.97	-31.00	39.00	37.07	74.00	29.03	V
9848.000	44.41	-33.50	38.00	39.91	74.00	29.59	V
7381.500	41.53	-35.10	36.60	40.03	74.00	32.47	V
2971.000	53.52	-20.00	30.00	43.52	74.00	20.48	V

**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)
17388.500	50.21	-26.90	45.20	31.81	74.00	23.79	V
14126.500	46.92	-29.00	42.00	33.92	74.00	27.08	H
12661.500	45.68	-30.50	39.10	37.08	74.00	28.32	H
9648.000	44.79	-33.10	38.00	39.89	74.00	29.21	V
7620.500	43.04	-34.70	36.90	40.74	74.00	30.96	V
2389.700	58.46	-20.00	28.10	50.46	74.00	15.54	V

## 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)
17624.500	50.38	-25.70	46.00	30.18	74.00	23.62	H
13751.000	46.78	-29.10	40.90	34.98	74.00	27.22	V
9747.500	44.76	-33.00	38.00	39.76	74.00	29.24	V
12543.000	44.54	-31.00	39.00	36.64	74.00	29.46	H
7986.000	41.93	-34.80	37.10	39.63	74.00	32.07	H
4868.500	39.45	-37.20	33.20	43.45	74.00	34.55	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)
17495.500	50.13	-26.90	45.20	31.73	74.00	23.87	V
14407.000	46.70	-28.60	42.50	32.80	74.00	27.30	H
9848.000	44.76	-33.50	38.00	40.26	74.00	29.24	V
12960.500	44.20	-30.50	39.20	35.50	74.00	29.80	V
7989.500	41.45	-34.80	37.10	39.15	74.00	32.55	V
2485.200	55.62	-20.00	28.30	47.32	74.00	18.38	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)
17950.500	50.81	-25.50	46.70	29.61	74.00	23.19	V
14393.500	46.66	-28.60	42.50	32.76	74.00	27.34	V
9648.000	45.47	-33.10	38.00	40.57	74.00	28.53	V
11370.000	44.47	-32.40	38.80	38.07	74.00	29.53	V
6992.500	42.33	-35.20	36.10	41.43	74.00	31.67	H
2389.600	60.78	-20.00	28.10	52.78	74.00	13.22	V

## 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)
17500.500	51.41	-26.90	45.20	33.01	74.00	22.59	H
14078.500	46.73	-29.40	41.70	34.53	74.00	27.27	V
9748.000	44.76	-33.00	38.00	39.76	74.00	29.24	V
12744.000	44.54	-30.50	39.10	35.94	74.00	29.46	H
7291.500	41.93	-35.00	36.50	40.33	74.00	32.07	V
4873.000	39.29	-37.20	33.20	43.29	74.00	34.71	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)
17623.500	50.41	-25.70	46.00	30.21	74.00	23.59	V
14397.000	47.21	-28.60	42.50	33.31	74.00	26.79	V
9848.000	44.89	-33.50	38.00	40.39	74.00	29.11	V
12038.500	44.71	-31.60	39.00	37.31	74.00	29.29	H
7189.500	41.86	-35.50	36.40	40.96	74.00	32.14	H
2485.000	59.29	-20.00	28.30	50.99	74.00	14.71	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)
9648.000	39.40	-33.10	38.00	34.50	54.00	14.60	V
17504.000	38.24	-26.90	45.20	19.84	54.00	15.76	V
14095.000	34.51	-29.40	41.70	22.31	54.00	19.49	V
12648.500	32.45	-30.50	39.10	23.85	54.00	21.55	H
7403.000	29.86	-35.20	36.70	28.26	54.00	24.14	V
2386.300	38.94	-20.00	28.10	30.94	54.00	15.06	V

## 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)
9748.000	39.59	-33.00	38.00	34.59	54.00	14.41	V
17497.000	38.30	-26.90	45.20	19.90	54.00	15.70	V
4874.000	35.97	-37.20	33.20	39.97	54.00	18.03	H
14377.000	34.50	-28.40	42.30	20.60	54.00	19.50	V
12633.500	32.42	-31.00	39.00	24.52	54.00	21.58	V
7310.000	30.03	-35.00	36.50	28.43	54.00	23.97	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)
9848.000	38.84	-33.50	38.00	34.34	54.00	15.16	V
17401.000	38.18	-26.90	45.20	19.78	54.00	15.82	H
14303.000	34.44	-28.40	42.30	20.54	54.00	19.56	V
4924.000	33.04	-37.10	33.30	36.84	54.00	20.96	V
12639.500	32.45	-31.00	39.00	24.55	54.00	21.55	V
2967.200	40.63	-20.00	30.00	30.63	54.00	13.37	V

**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)
9648.000	39.28	-33.10	38.00	34.38	54.00	14.72	V
17495.500	38.26	-26.90	45.20	19.86	54.00	15.74	V
14096.000	34.57	-29.40	41.70	22.37	54.00	19.43	V
12645.500	32.44	-31.00	39.00	24.54	54.00	21.56	V
7309.000	29.78	-35.00	36.50	28.18	54.00	24.22	V
2390.000	41.01	-20.00	28.10	33.01	54.00	12.99	V

## 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)
9748.000	40.05	-33.00	38.00	35.05	54.00	13.95	V
17398.500	38.03	-26.90	45.20	19.63	54.00	15.97	H
14379.500	34.48	-28.40	42.30	20.58	54.00	19.52	V
12654.500	32.53	-30.50	39.10	23.93	54.00	21.47	V
7311.500	29.66	-35.00	36.50	28.06	54.00	24.34	V
4872.500	27.13	-37.20	33.20	31.13	54.00	26.87	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)
9848.000	38.72	-33.50	38.00	34.22	54.00	15.28	V
17502.500	38.16	-26.90	45.20	19.76	54.00	15.84	H
14302.000	34.46	-28.40	42.30	20.56	54.00	19.54	V
12655.500	32.58	-30.50	39.10	23.98	54.00	21.42	V
7403.000	29.40	-35.20	36.70	27.80	54.00	24.60	V
2485.100	40.66	-20.00	28.30	32.36	54.00	13.34	V

**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)
9648.000	39.13	-33.10	38.00	34.23	54.00	14.87	V
17483.500	37.96	-26.90	45.20	19.56	54.00	16.04	V
14113.000	34.56	-29.00	42.00	21.56	54.00	19.44	V
12651.500	32.53	-30.50	39.10	23.93	54.00	21.47	V
7410.000	29.89	-35.20	36.70	28.29	54.00	24.11	V
2389.900	42.17	-20.00	28.10	34.17	54.00	11.83	V

## Ch6

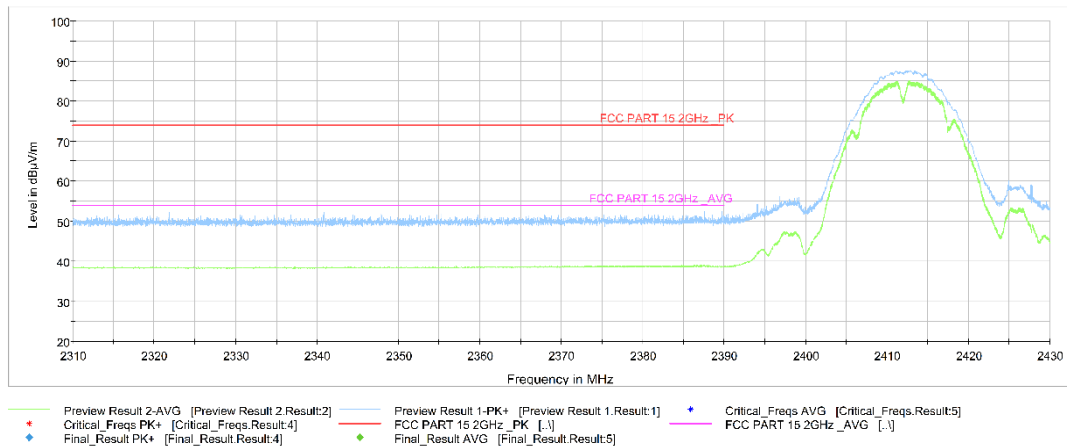
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
9748.000	39.39	-33.00	38.00	34.39	54.00	14.61	V
17500.500	38.10	-26.90	45.20	19.70	54.00	15.90	H
14080.000	34.34	-29.40	41.70	22.14	54.00	19.66	H
12646.000	32.40	-30.50	39.10	23.80	54.00	21.60	V
7510.000	29.56	-34.50	36.80	27.26	54.00	24.44	V
4874.500	27.39	-37.20	33.20	31.39	54.00	26.61	V

## Ch11

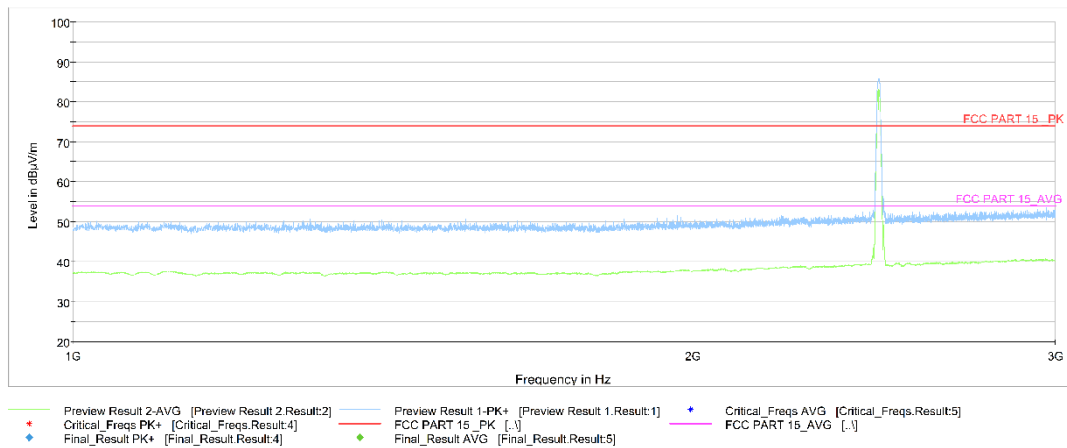
Frequency (MHz)	Measurement Result (dBuV/m)	Cable Loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Pol. (H/V)
9848.000	39.35	-33.50	38.00	34.85	54.00	14.65	V
17502.500	38.33	-26.90	45.20	19.93	54.00	15.67	V
14073.500	34.48	-29.40	41.70	22.28	54.00	19.52	V
12658.500	32.47	-30.50	39.10	23.87	54.00	21.53	H
7295.000	29.47	-35.00	36.50	27.87	54.00	24.53	V
2485.000	41.69	-20.00	28.30	33.39	54.00	12.31	H



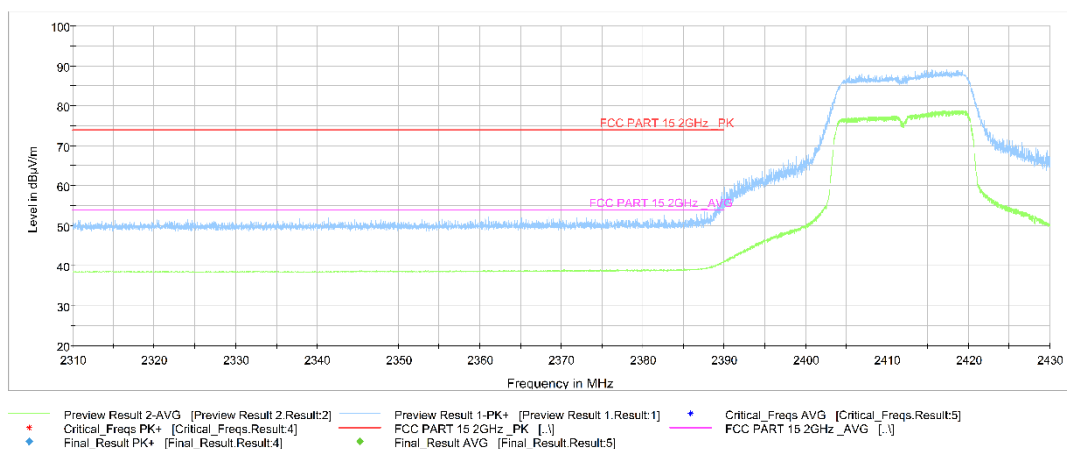
Test graphs as below:



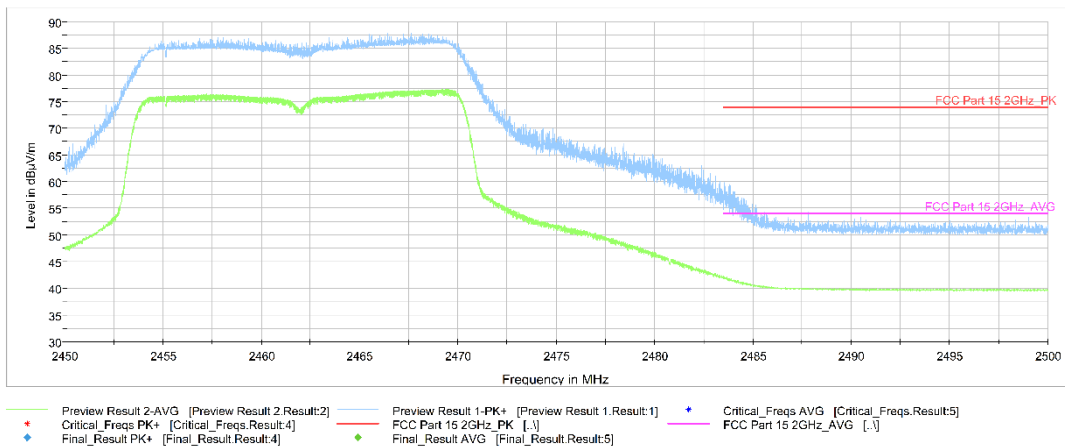
**Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz - 2.45GHz**



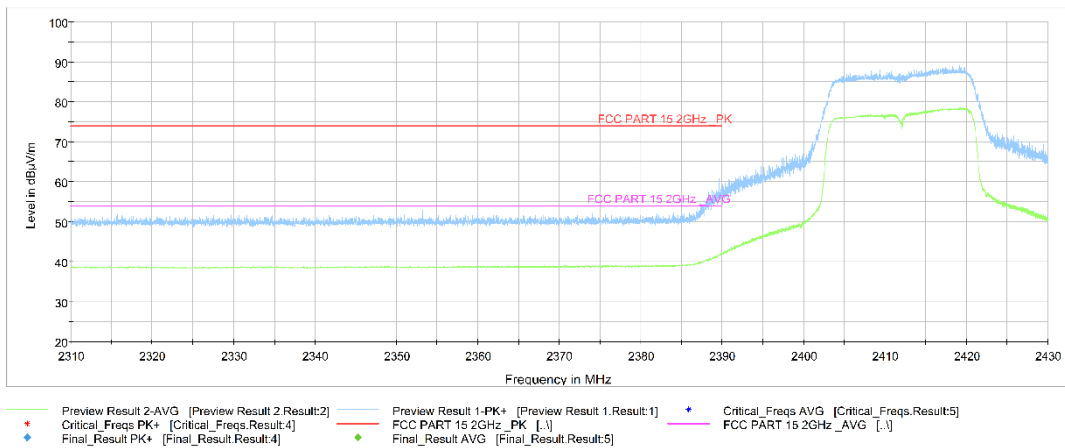
**Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**



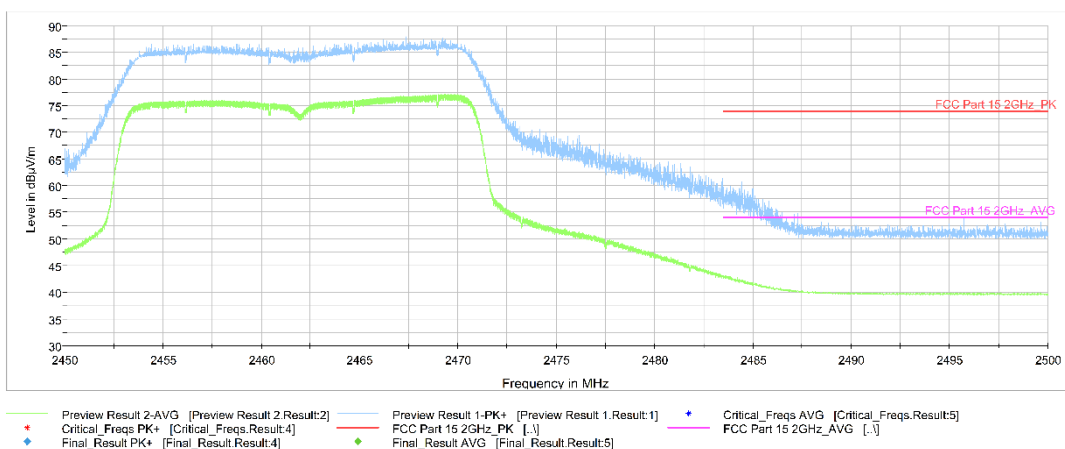
**Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.45GHz**



**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 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:**