

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

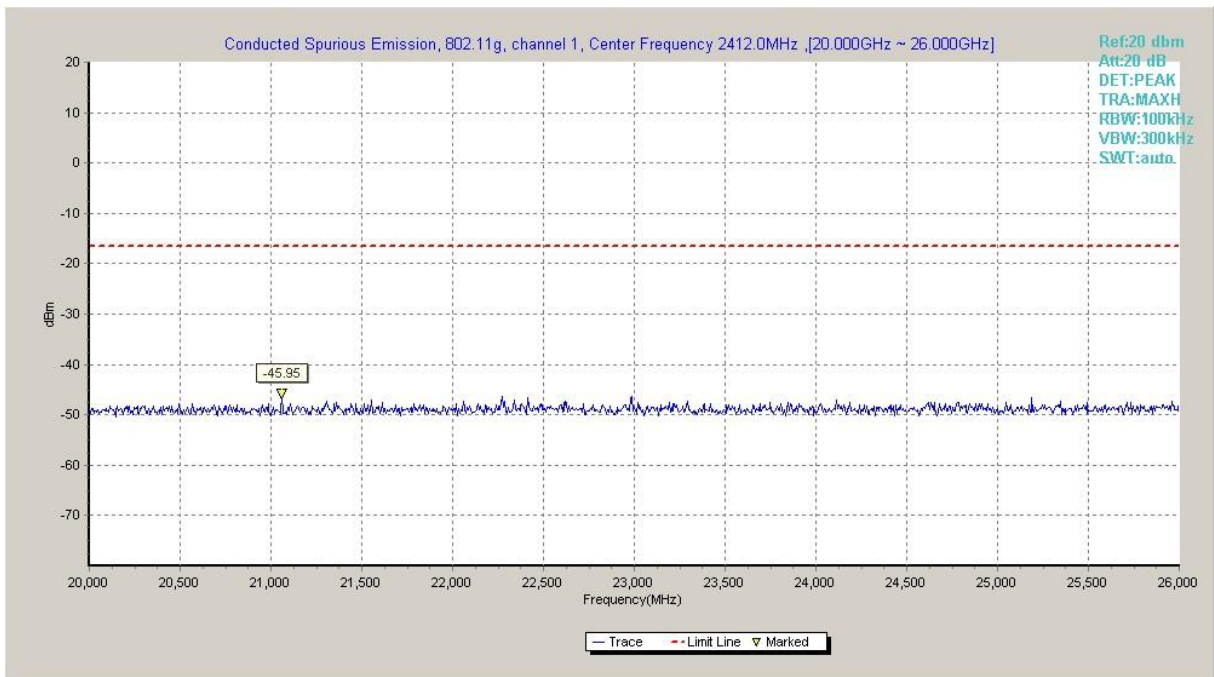


Fig.A.6.1.32 Transmitter Spurious Emission - Conducted (802.11g, Ch1, 20 GHz-26 GHz)

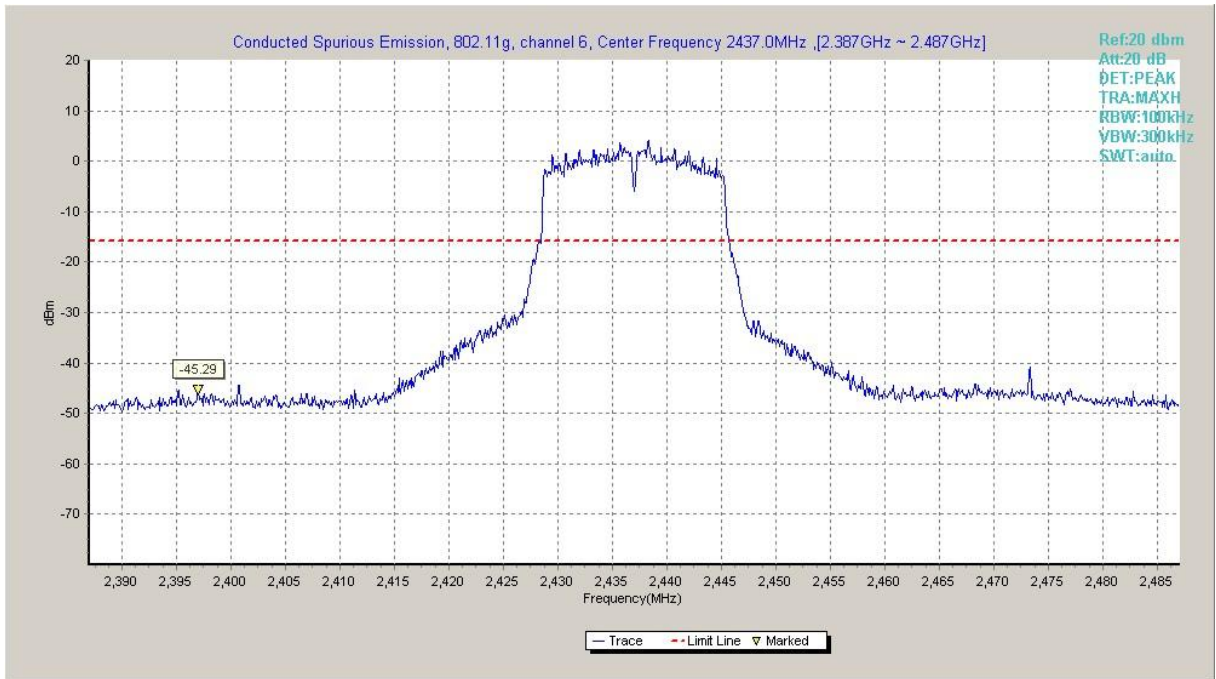


Fig.A.6.1.33 Transmitter Spurious Emission - Conducted (802.11g, Ch6, Center Frequency)

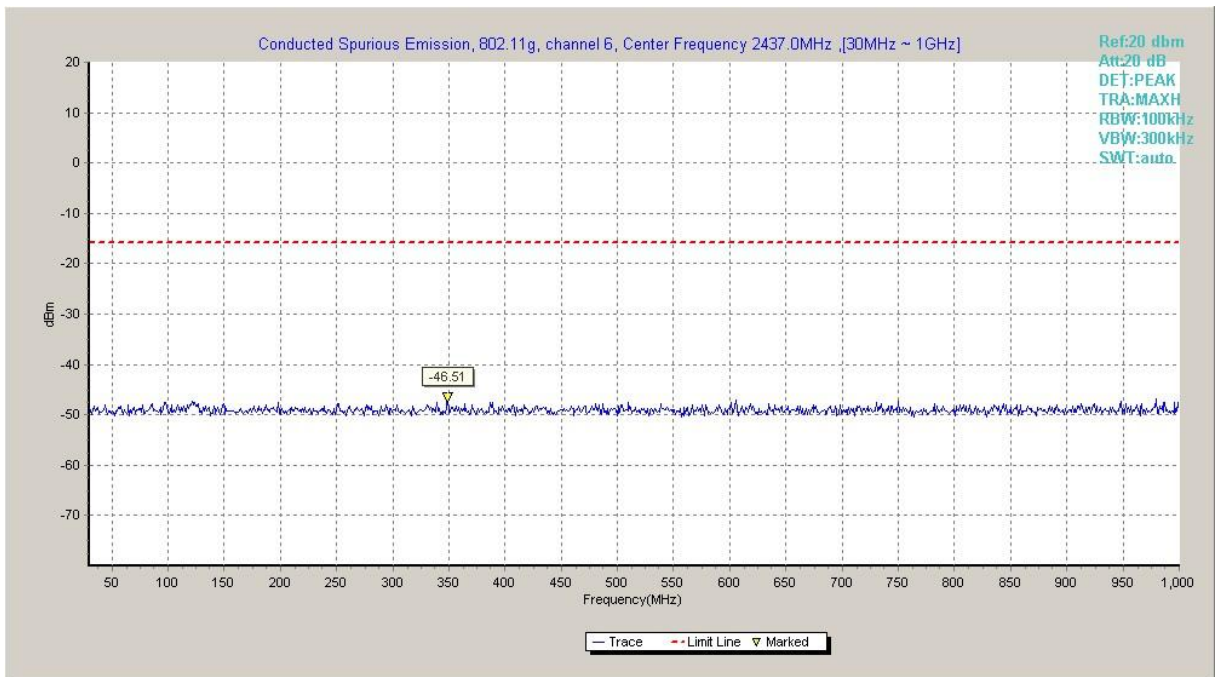


Fig.A.6.1.34 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 30 MHz-1 GHz)

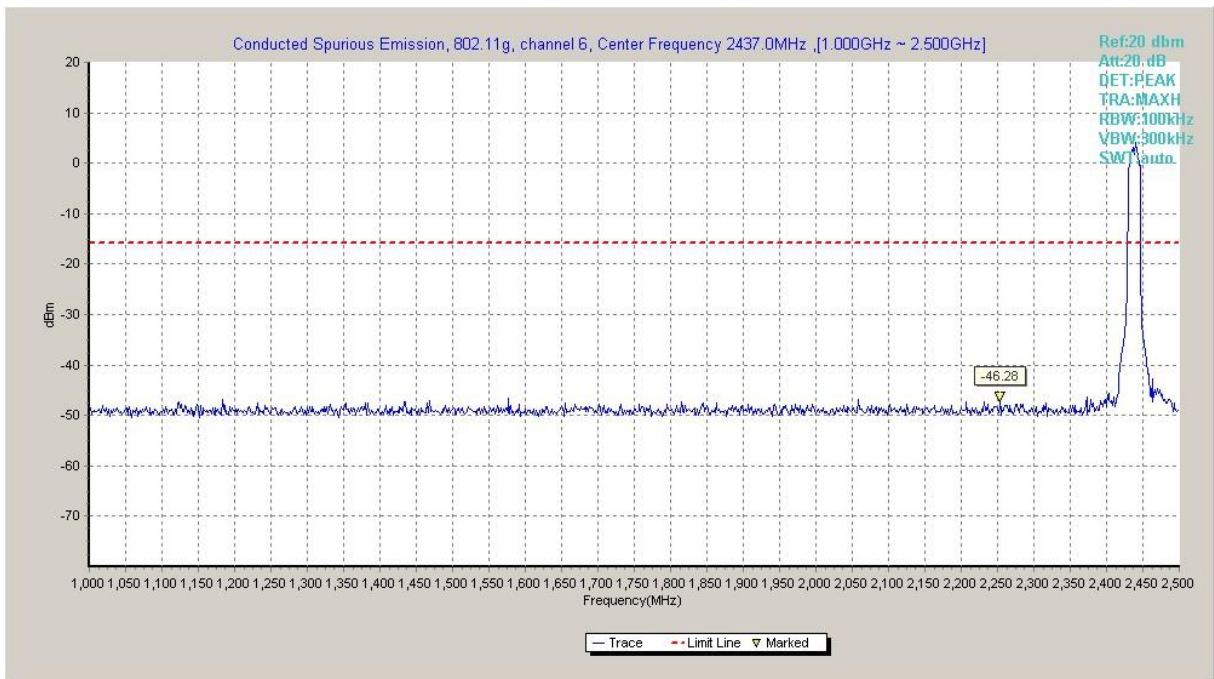


Fig.A.6.1.35 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 1 GHz-2.5 GHz)

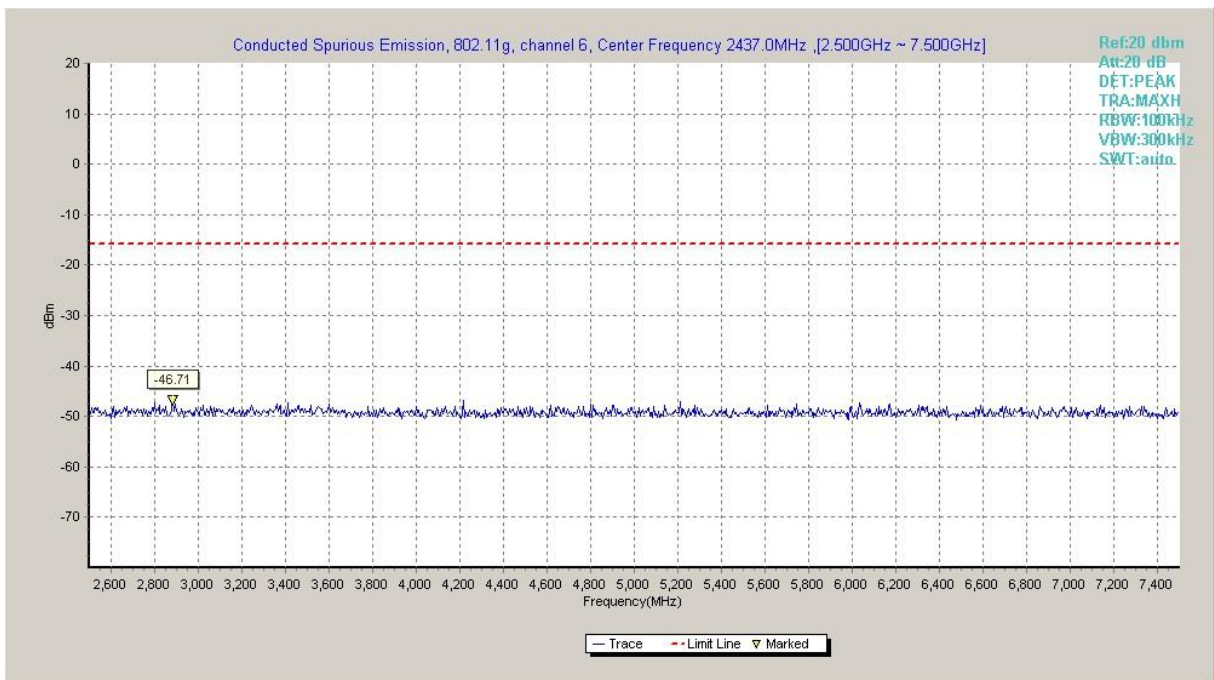


Fig.A.6.1.36 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 2.5 GHz-7.5 GHz)

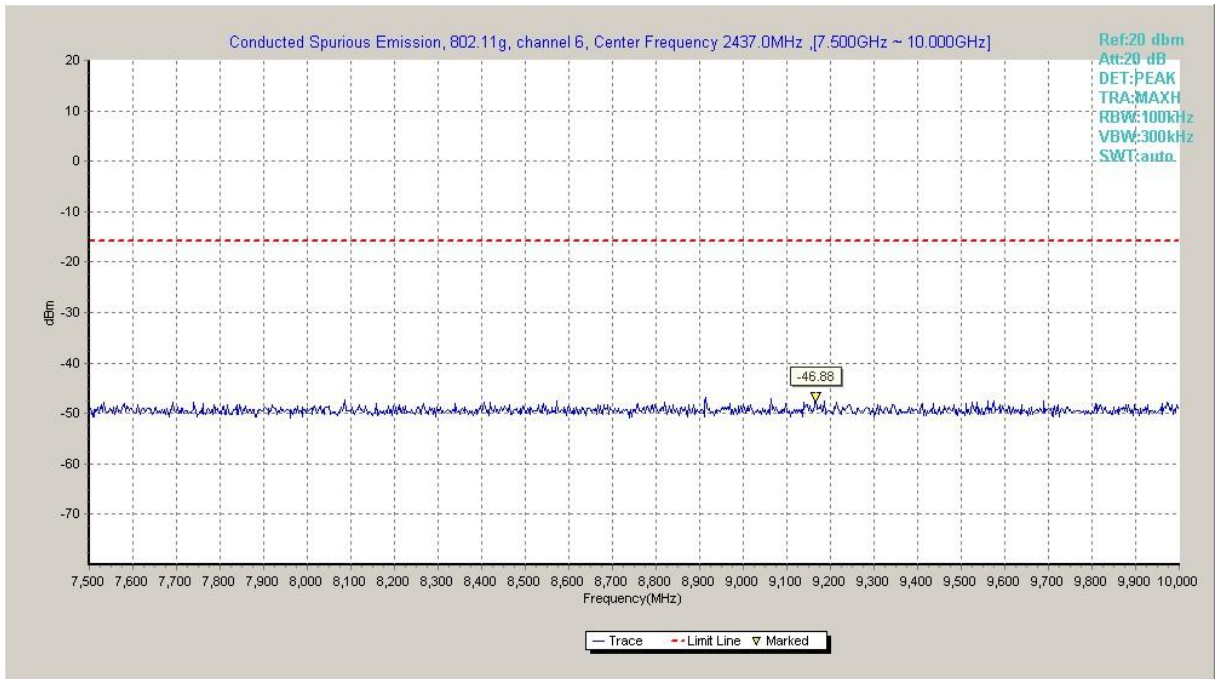


Fig.A.6.1.37 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 7.5 GHz-10 GHz)

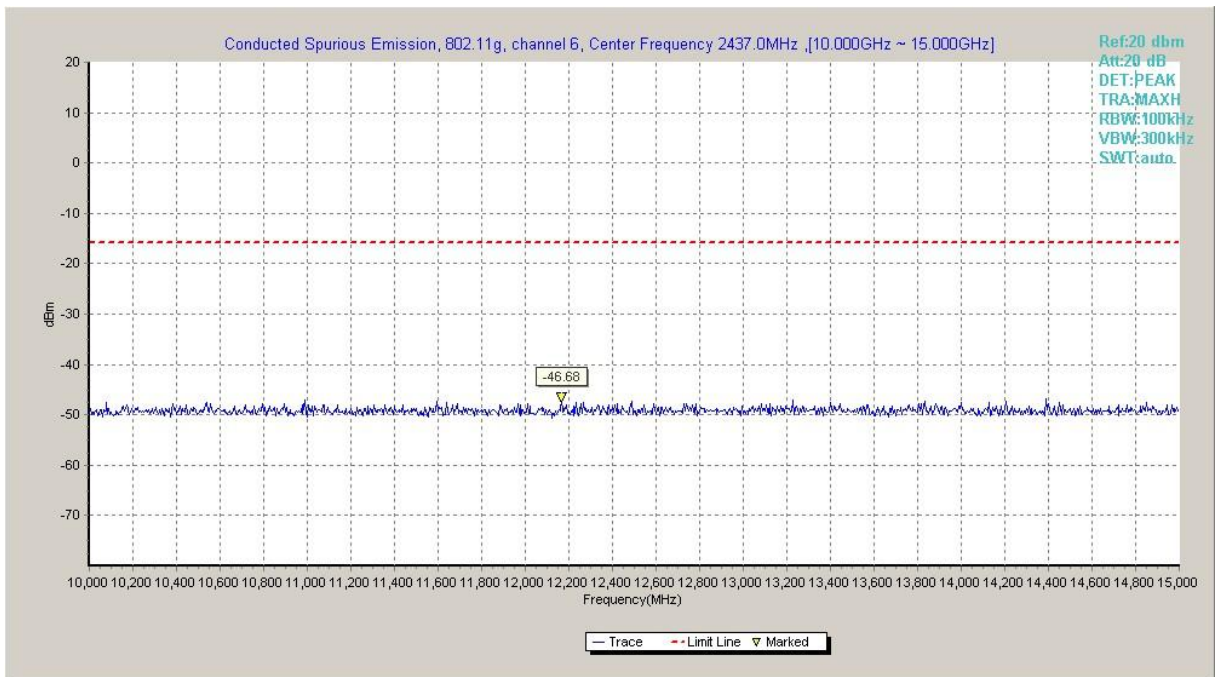


Fig.A.6.1.38 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 10 GHz-15 GHz)

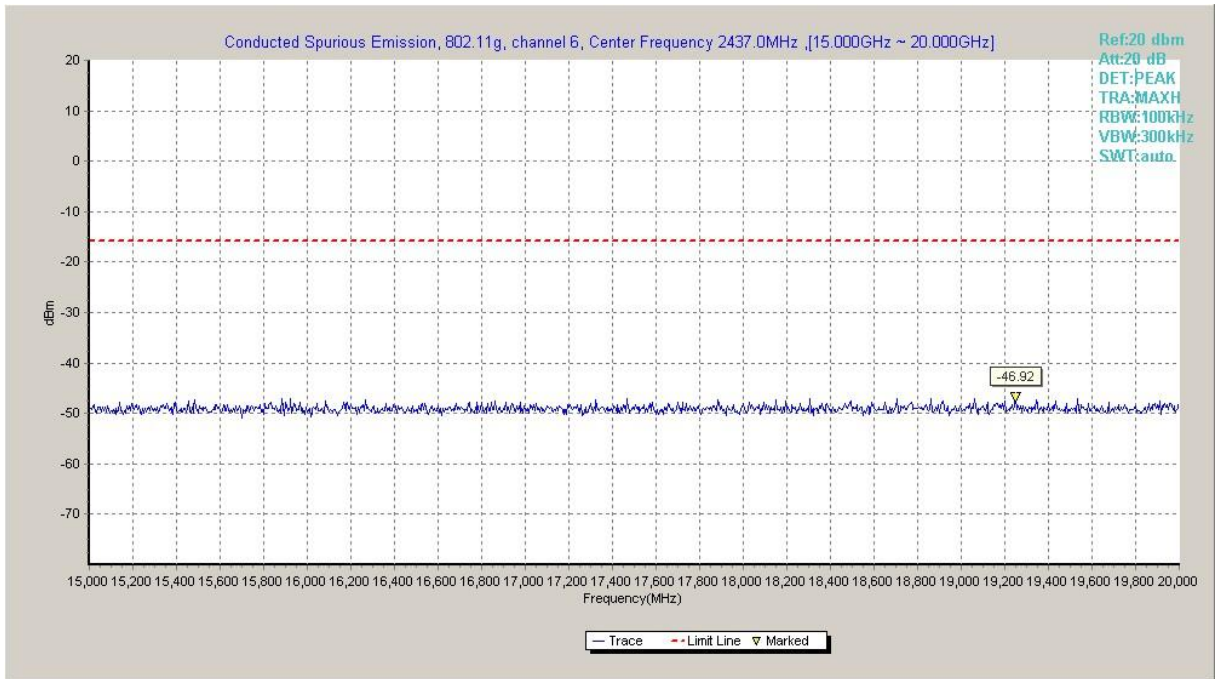


Fig.A.6.1.39 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 15 GHz-20 GHz)

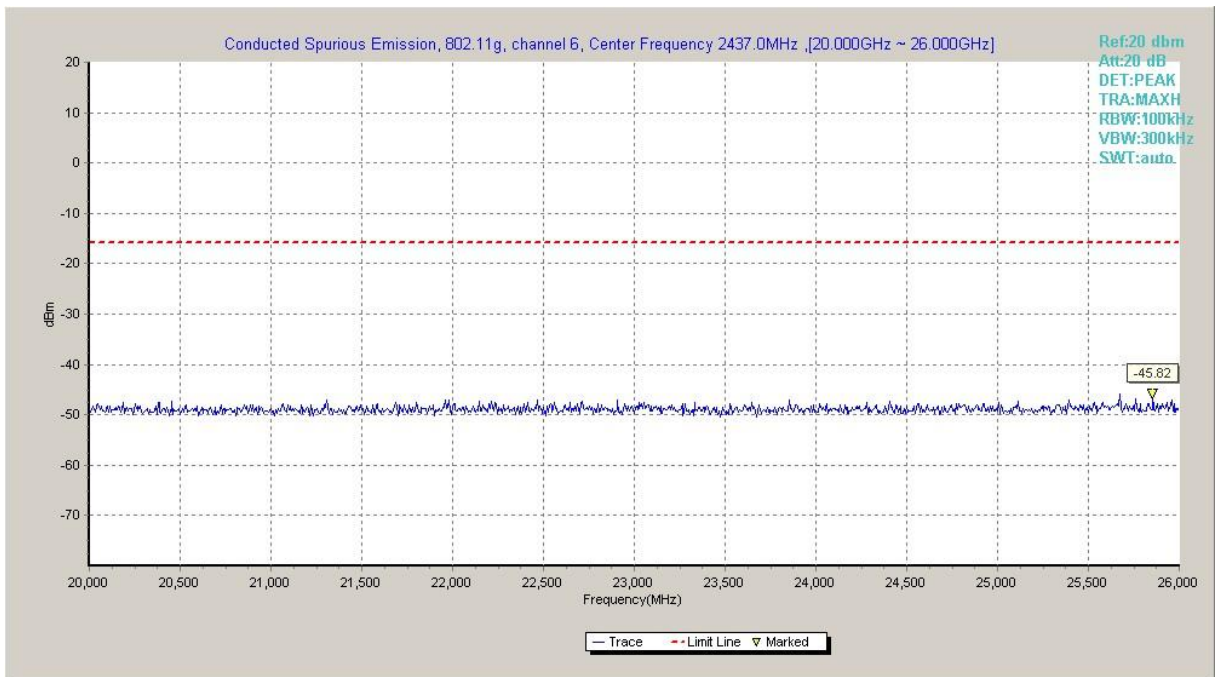


Fig.A.6.1.40 Transmitter Spurious Emission - Conducted (802.11g, Ch6, 20 GHz-26 GHz)

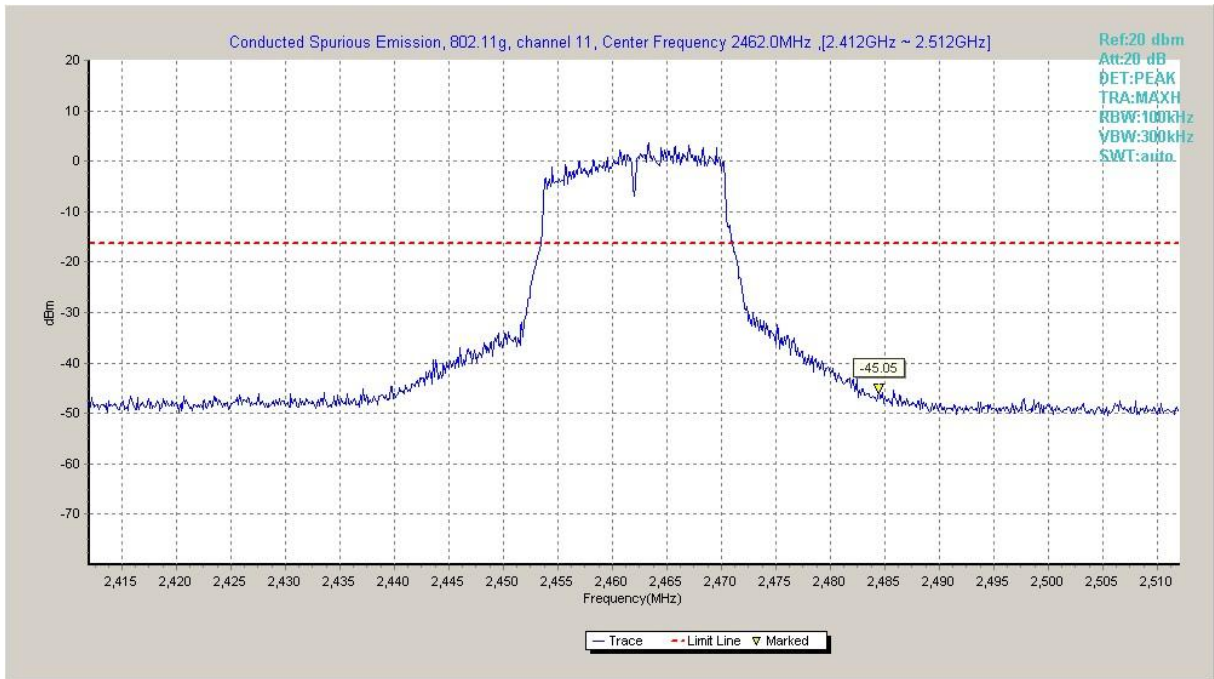


Fig.A.6.1.41 Transmitter Spurious Emission - Conducted (802.11g, Ch11, Center Frequency)

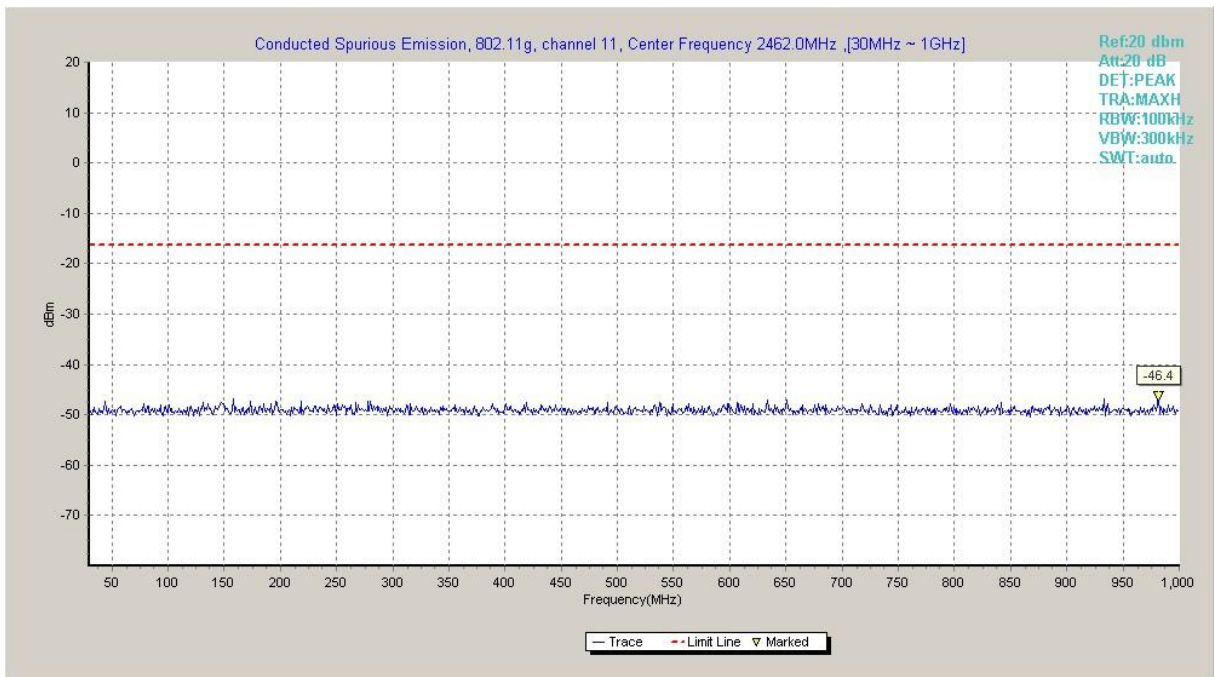


Fig.A.6.1.42 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 30 MHz-1 GHz)

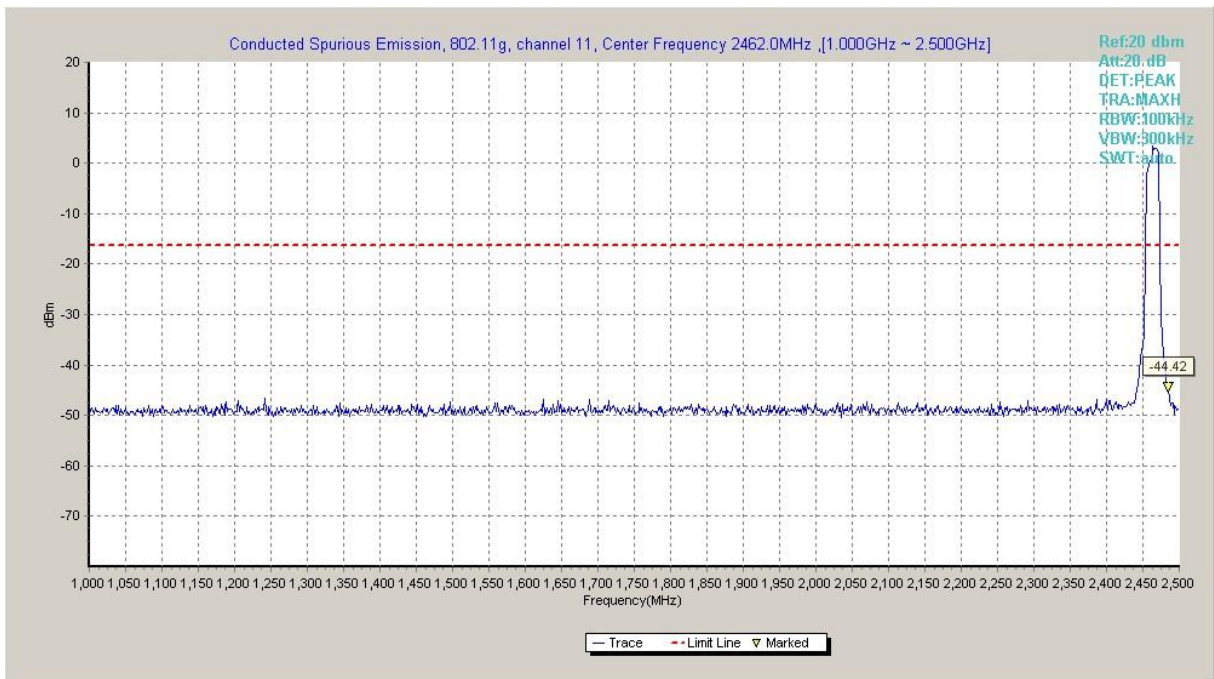


Fig.A.6.1.43 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 1 GHz-2.5 GHz)

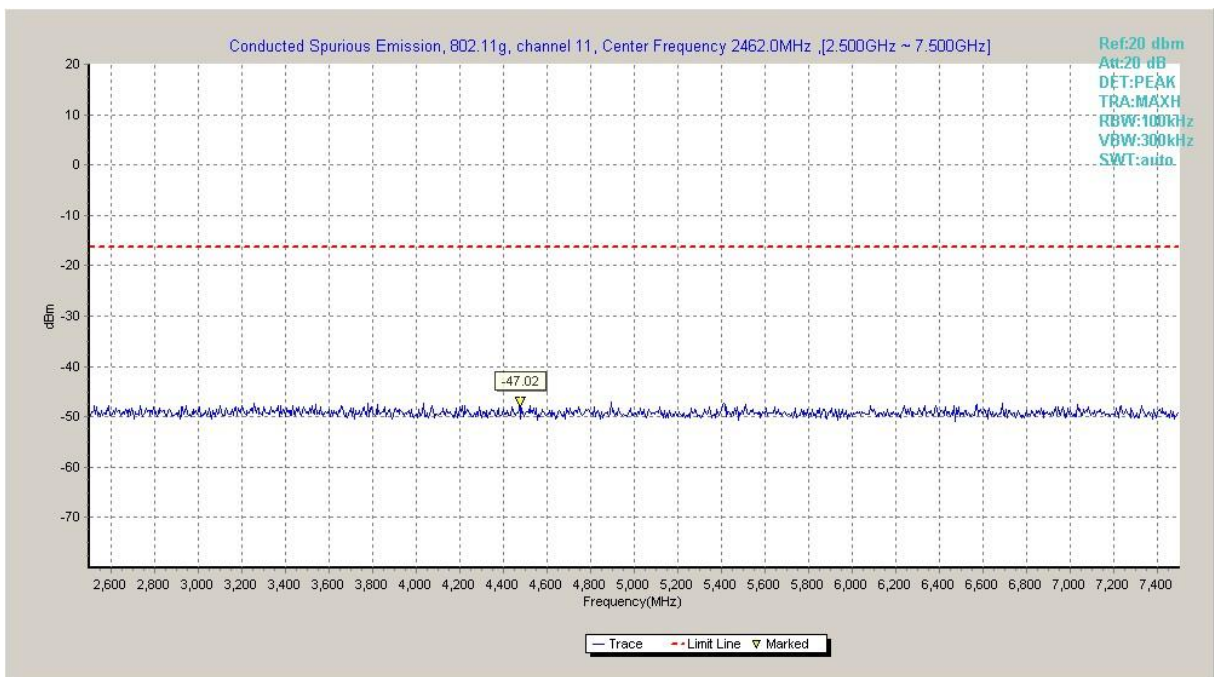


Fig.A.6.1.44 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 2.5 GHz-7.5 GHz)

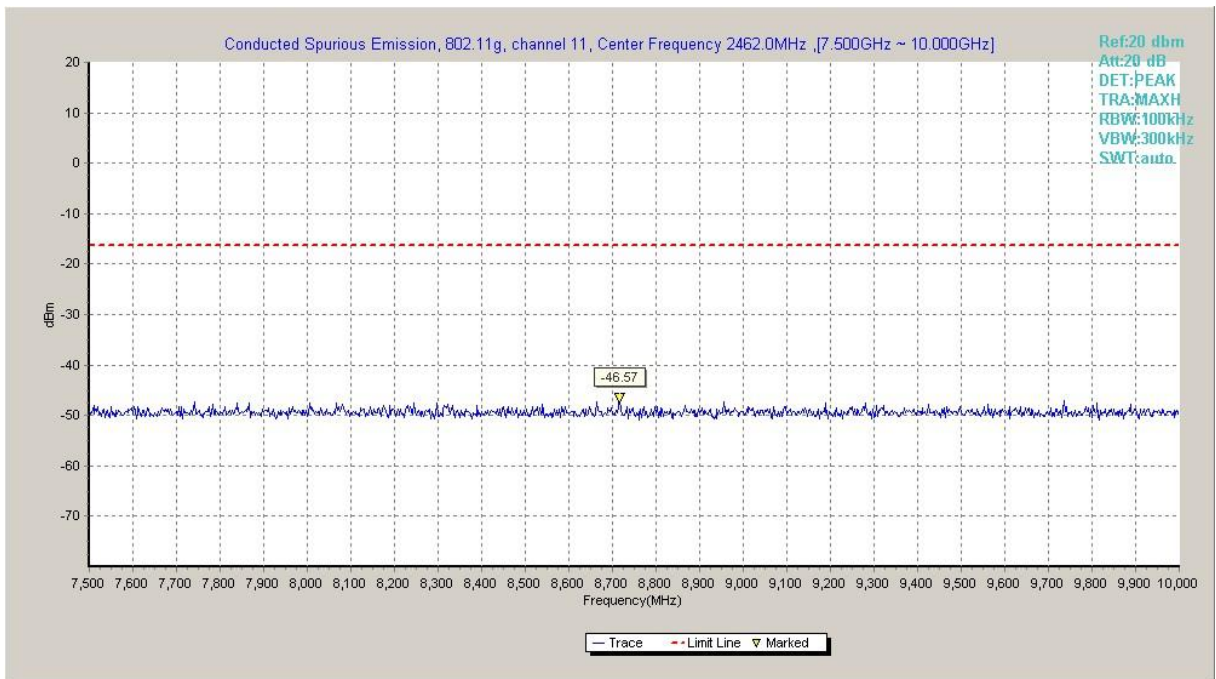


Fig.A.6.1.45 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 7.5 GHz-10 GHz)

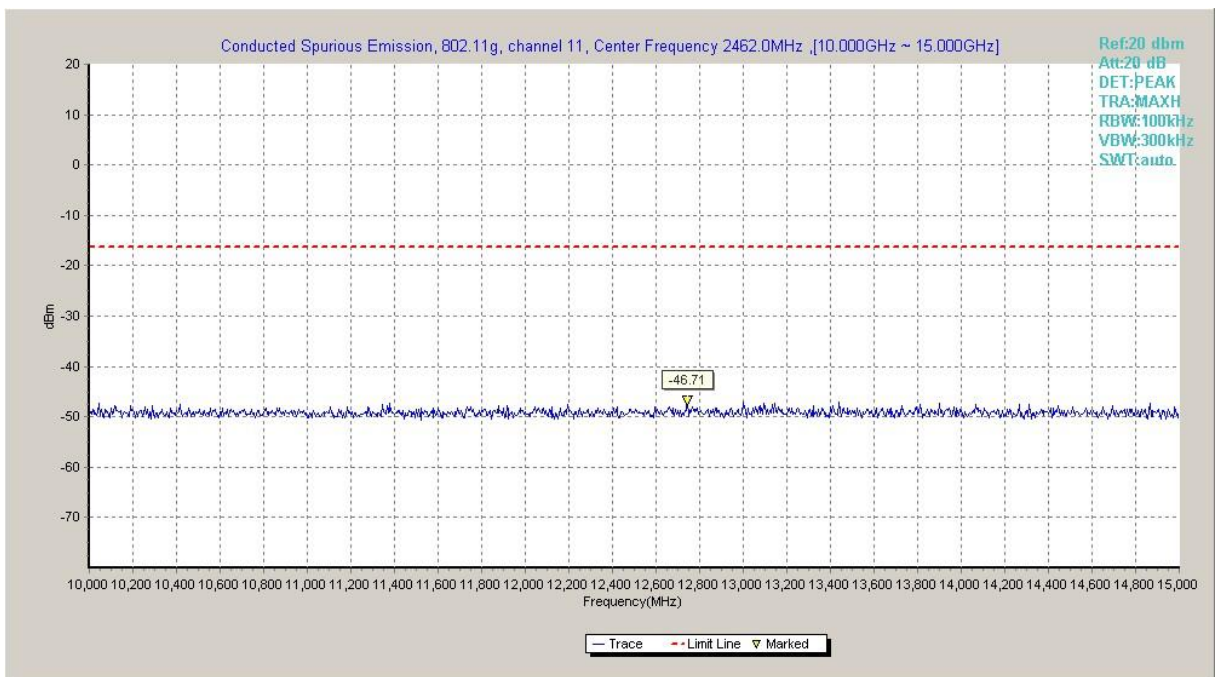


Fig.A.6.1.46 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 10 GHz-15 GHz)

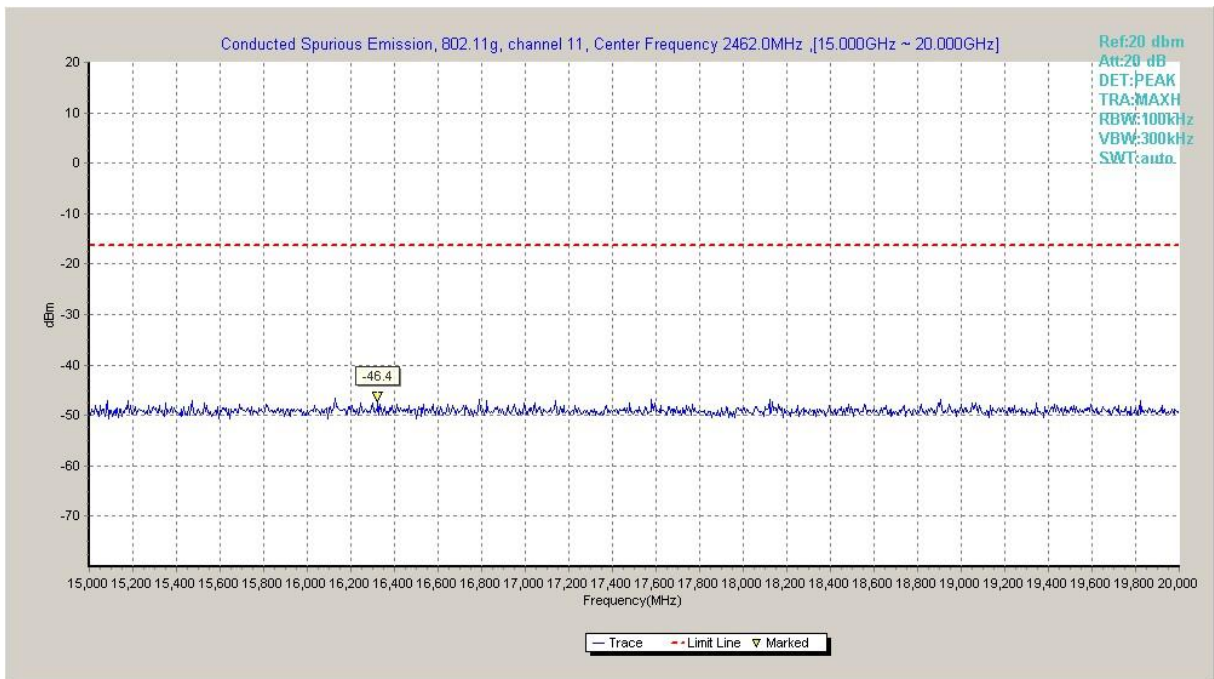


Fig.A.6.1.47 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 15 GHz-20 GHz)

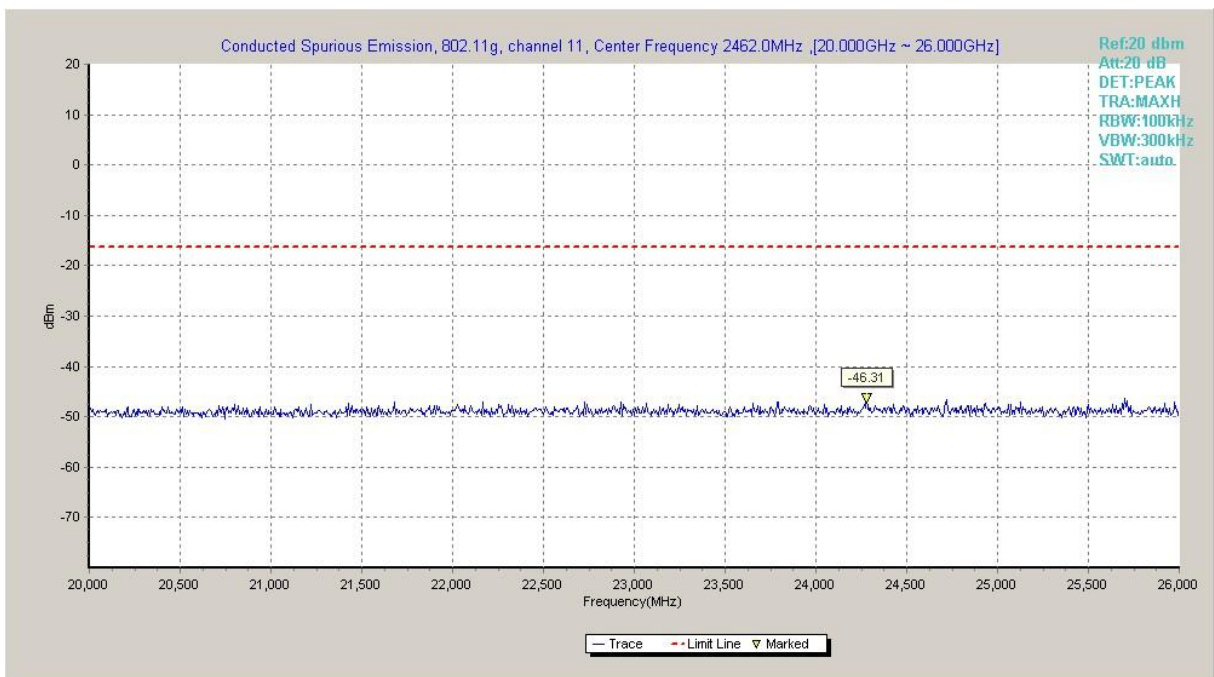


Fig.A.6.1.48 Transmitter Spurious Emission - Conducted (802.11g, Ch11, 20 GHz-26 GHz)

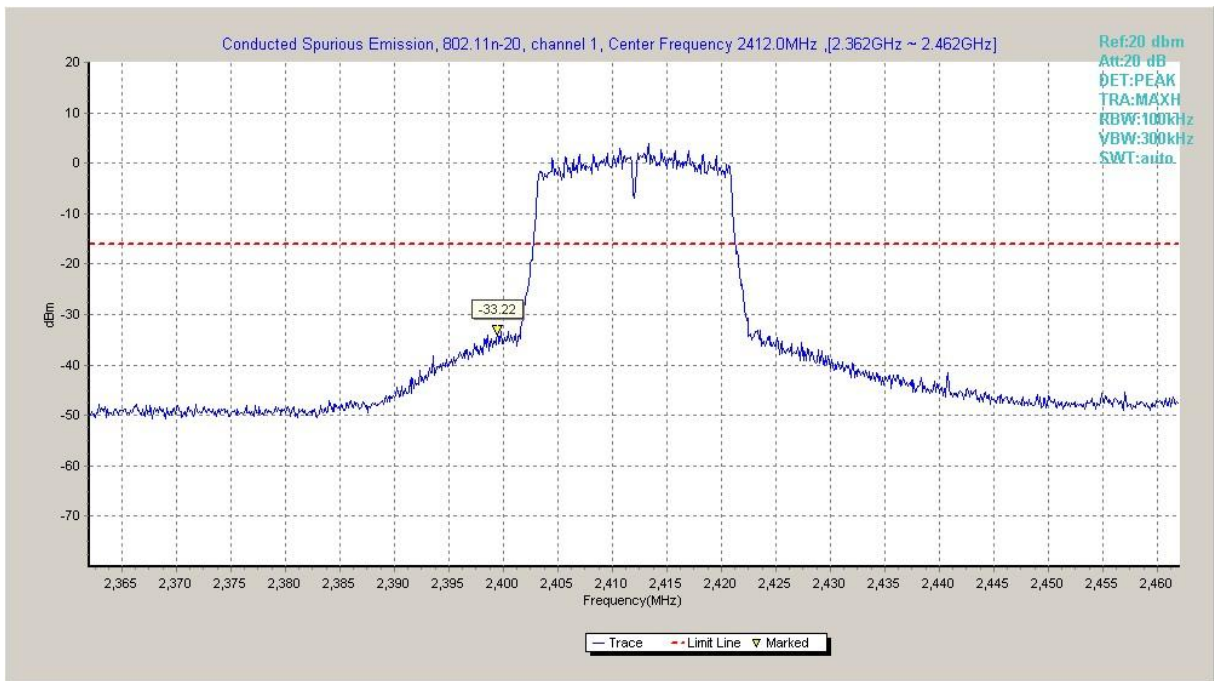


Fig.A.6.1.49 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, Center Frequency)

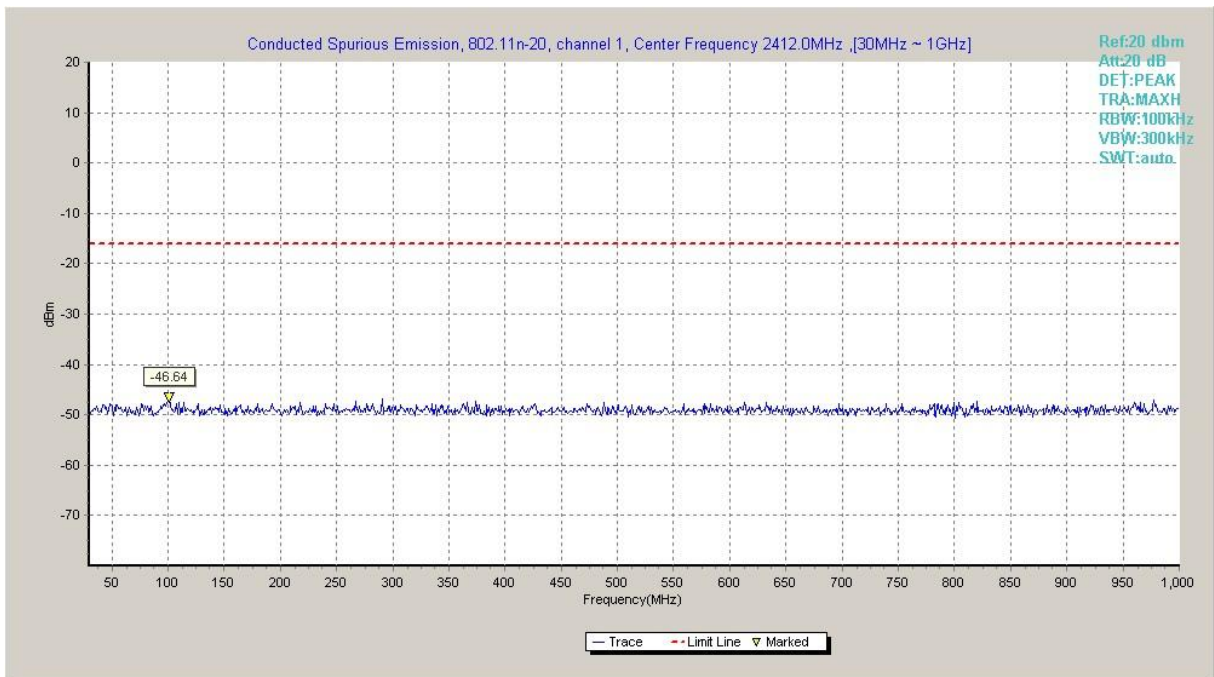


Fig.A.6.1.50 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 30 MHz-1 GHz)

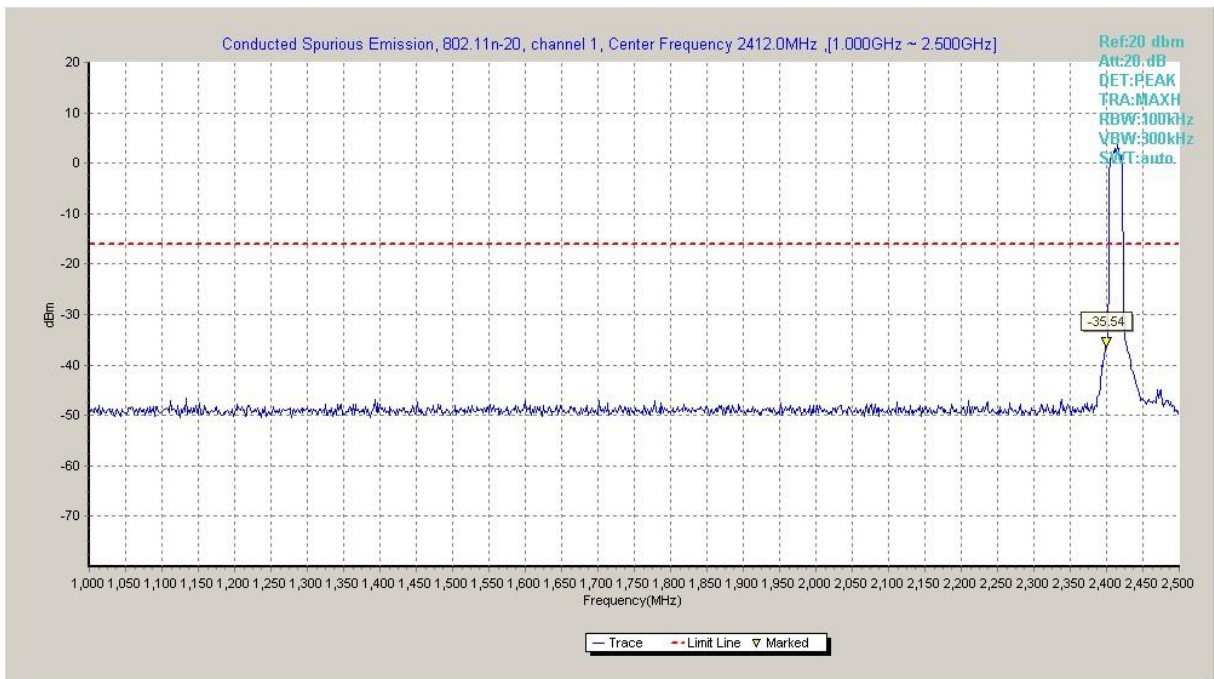


Fig.A.6.1.51 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 1 GHz-2.5 GHz)

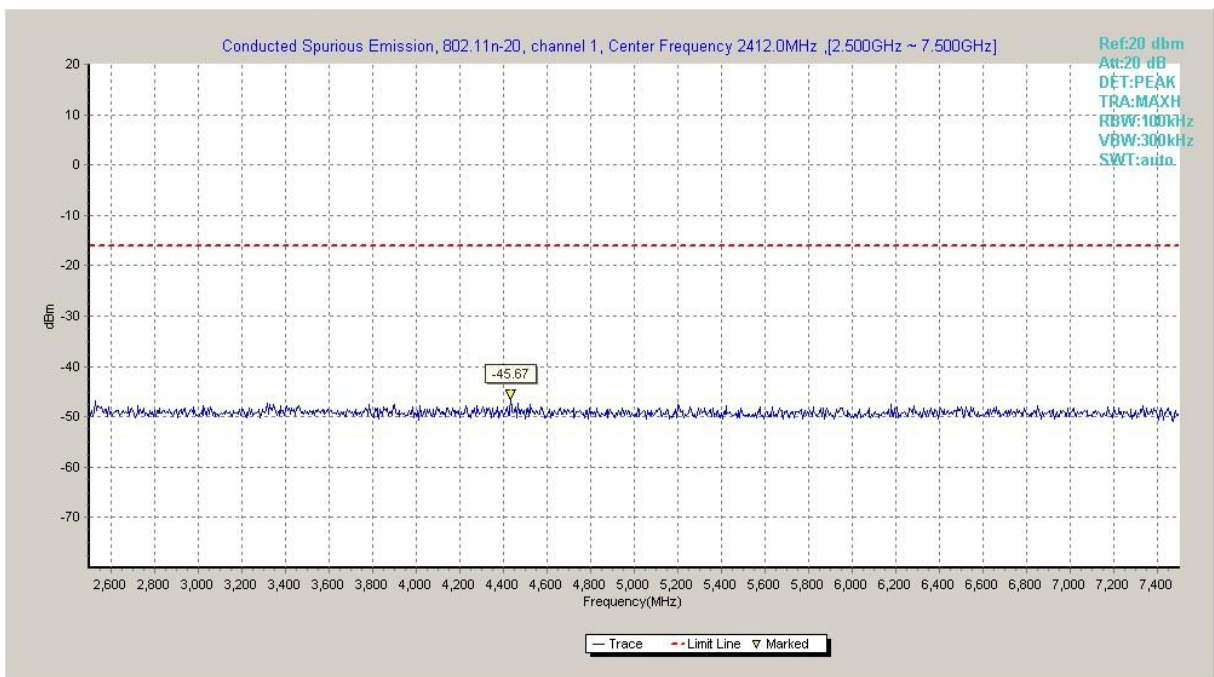


Fig.A.6.1.52 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 2.5 GHz-7.5 GHz)

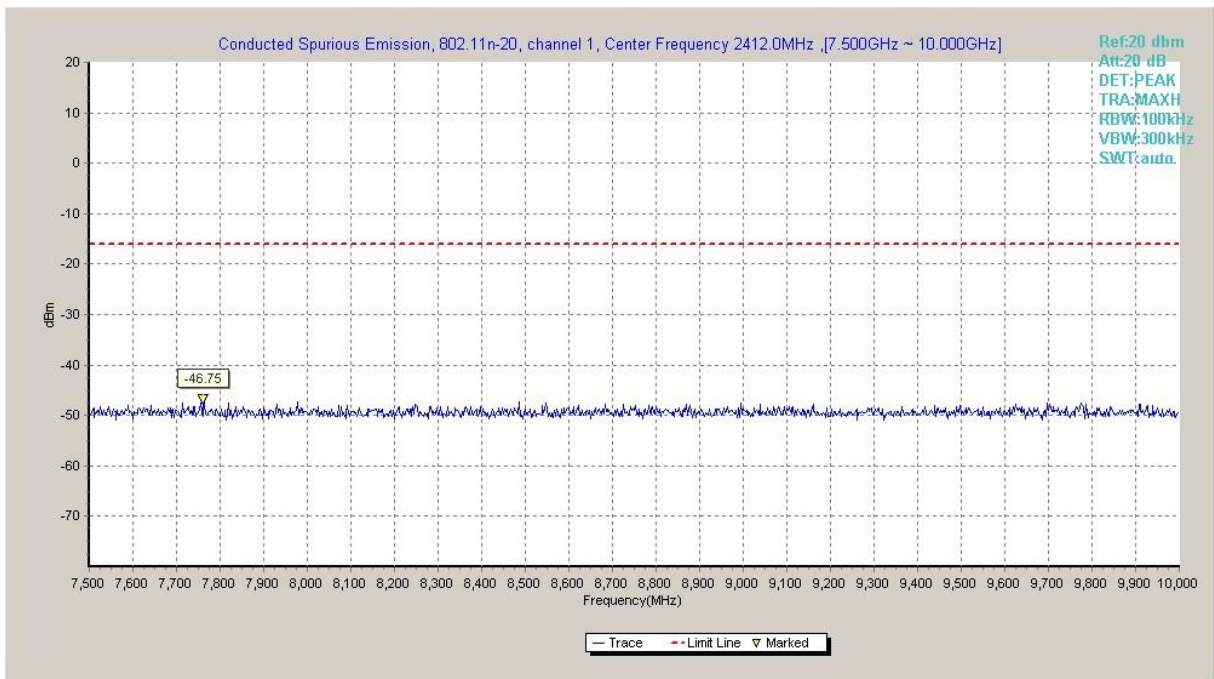


Fig.A.6.1.53 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 7.5 GHz-10 GHz)

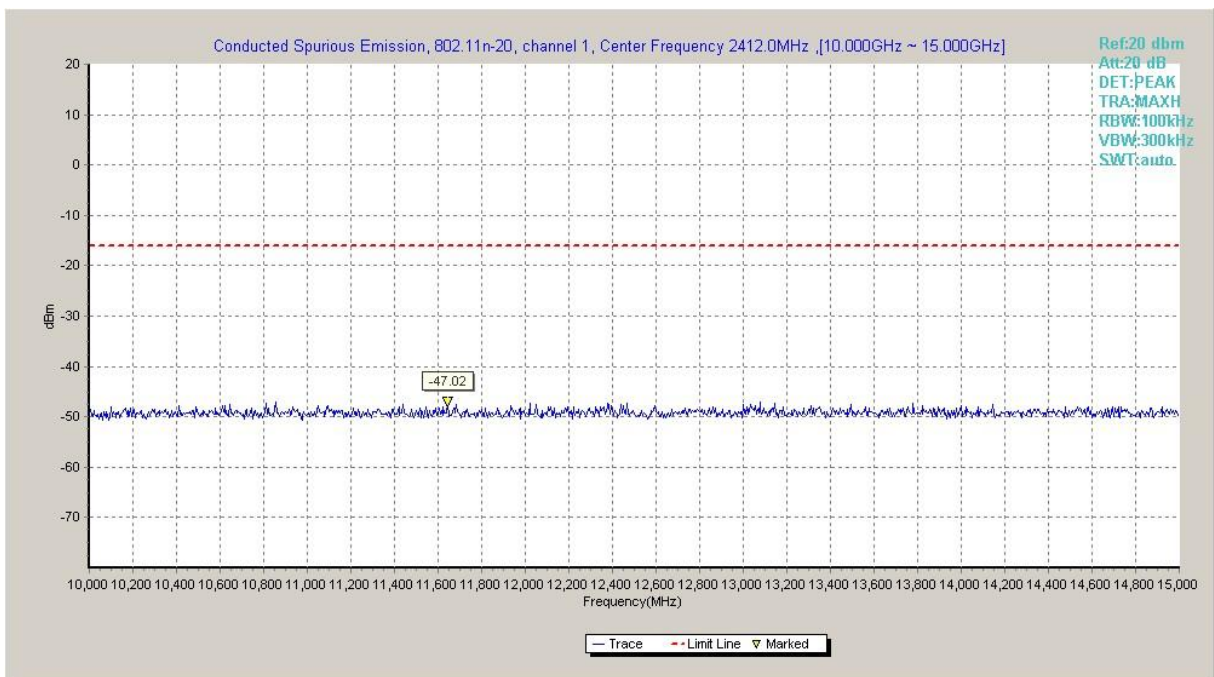


Fig.A.6.1.54 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 10 GHz-15 GHz)

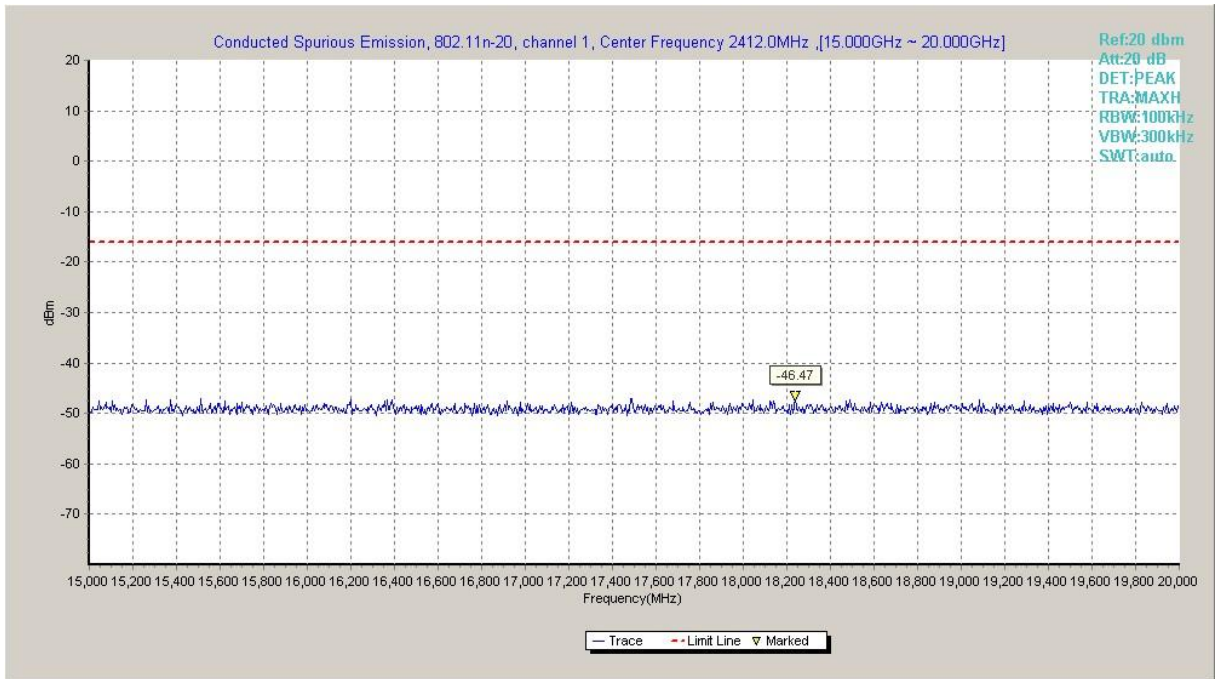


Fig.A.6.1.55 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 15 GHz-20 GHz)

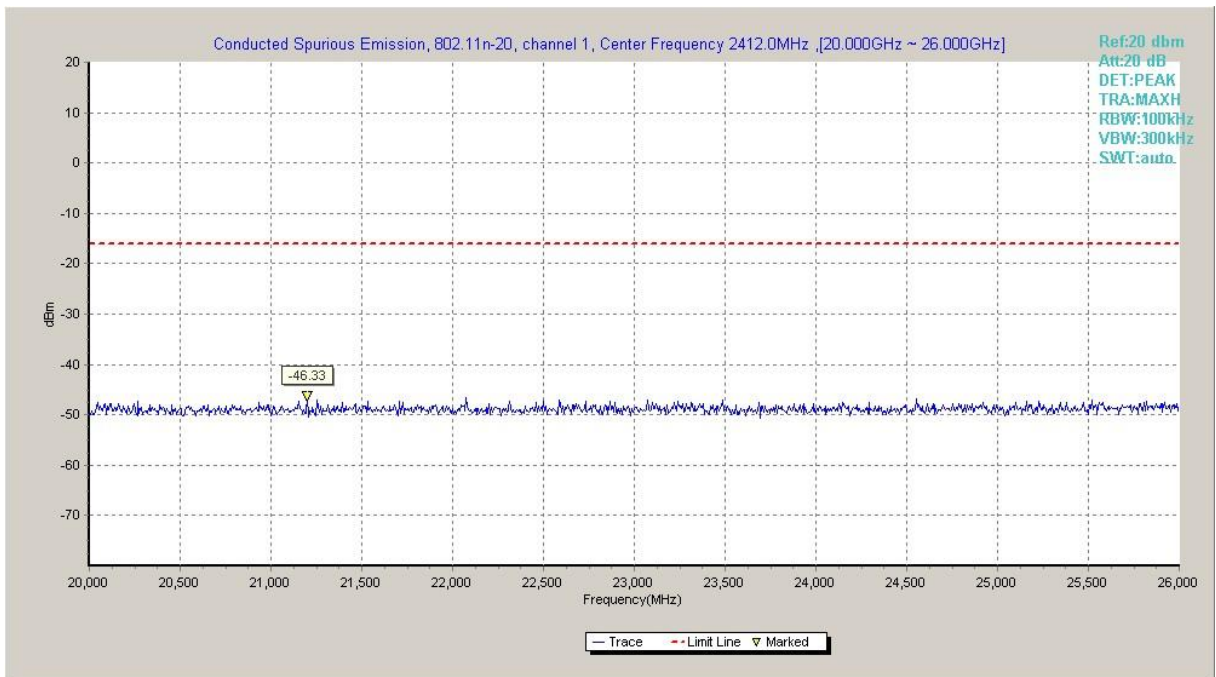


Fig.A.6.1.56 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch1, 20 GHz-26 GHz)

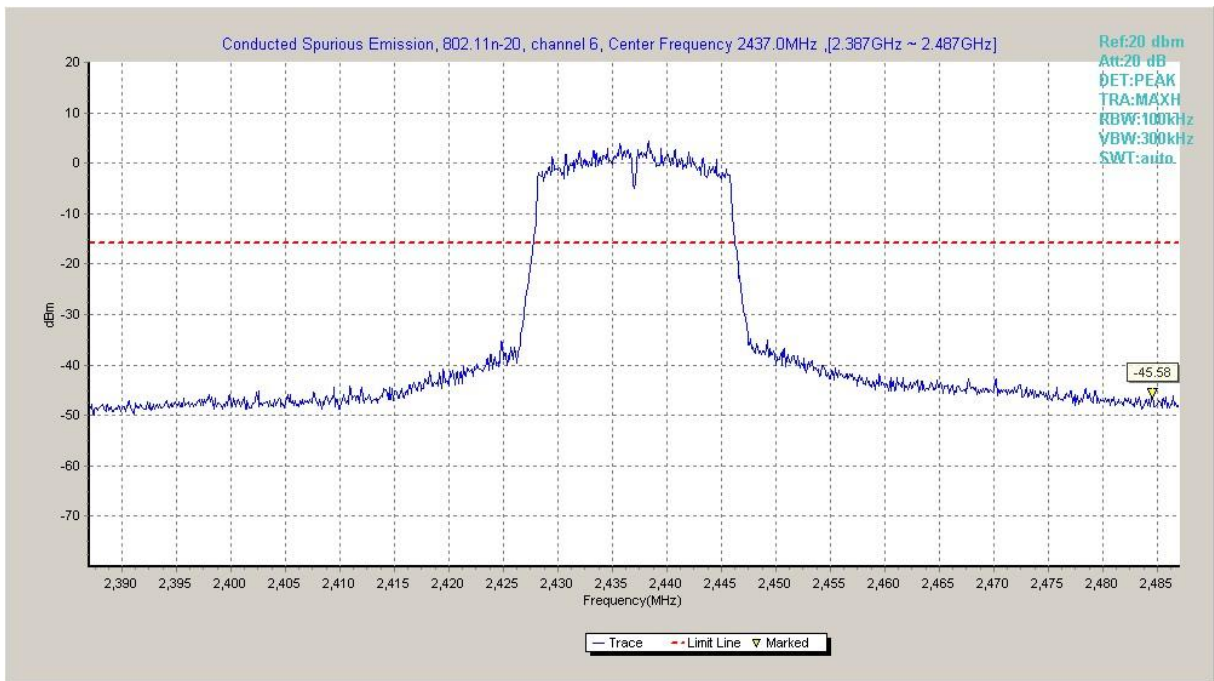


Fig.A.6.1.57 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, Center Frequency)

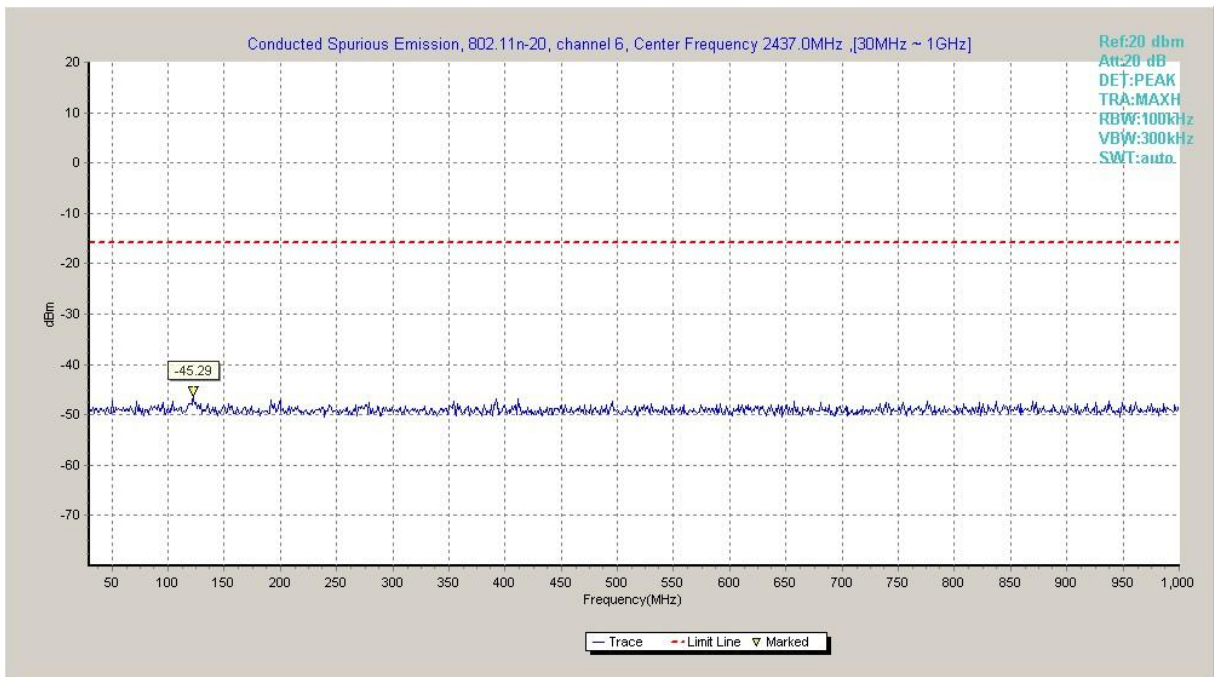


Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)

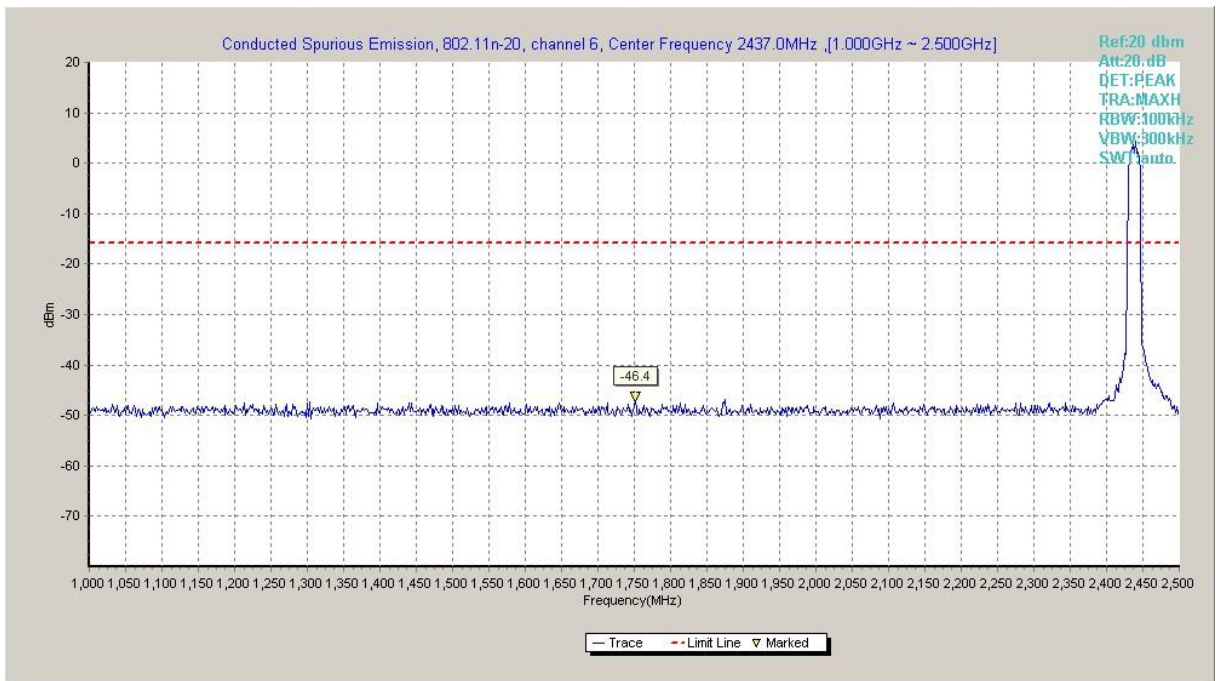


Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

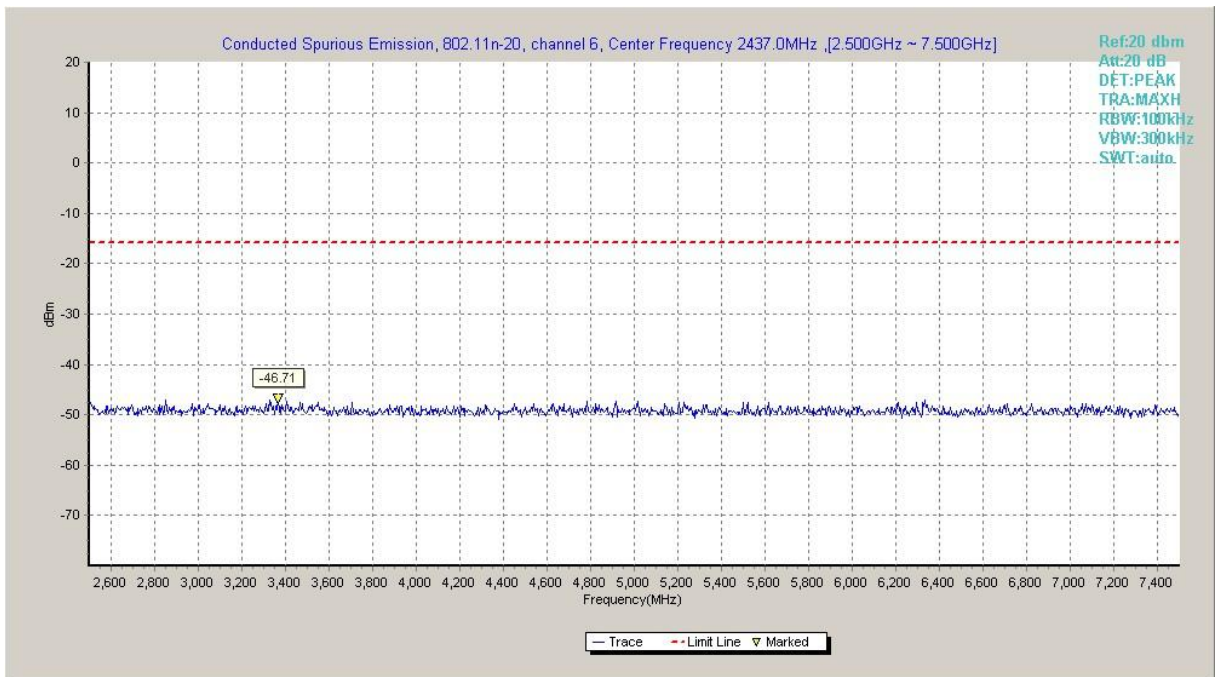


Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

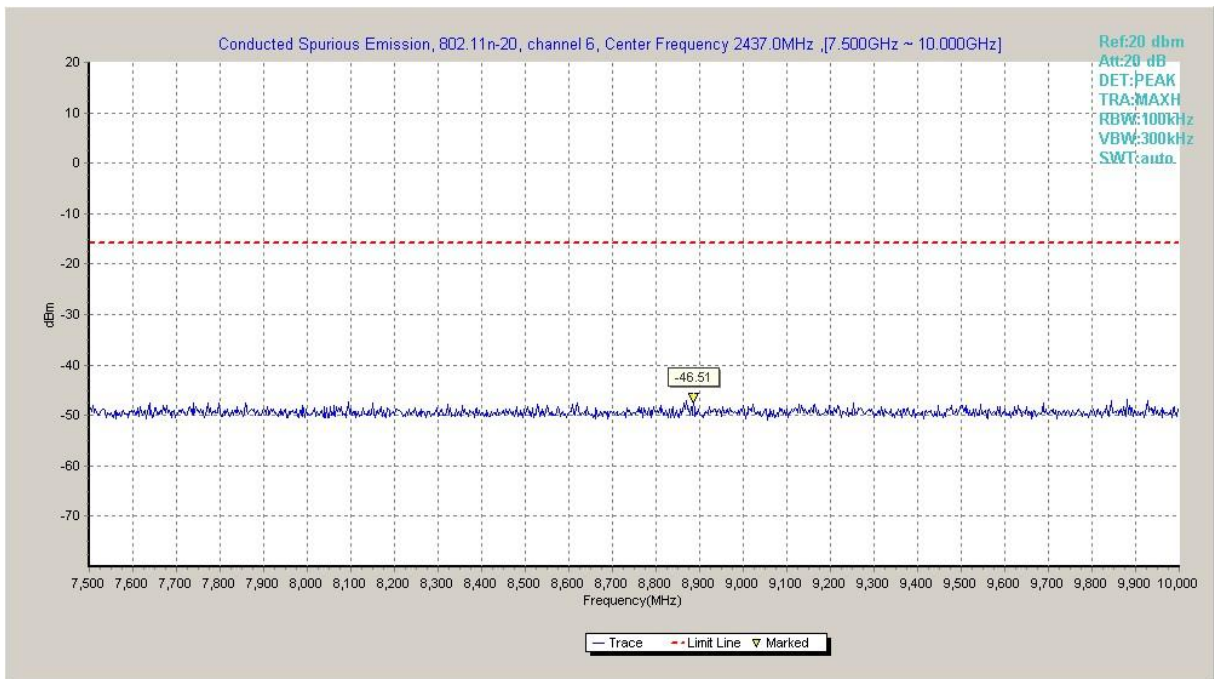


Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

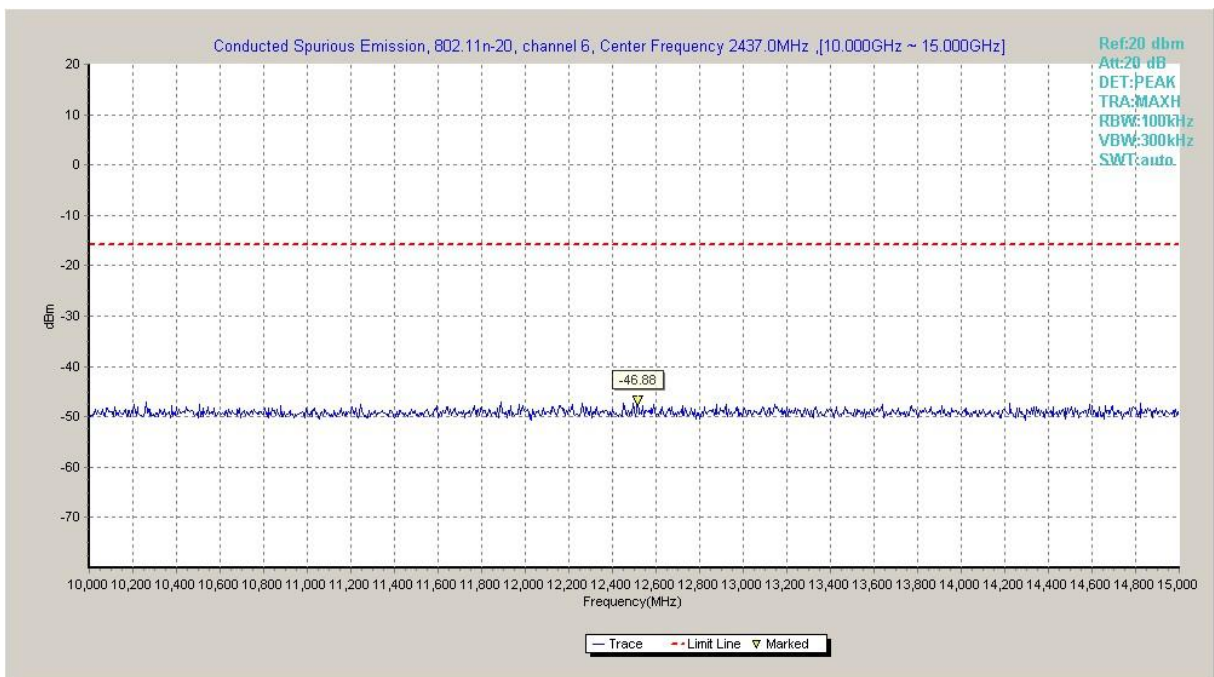


Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

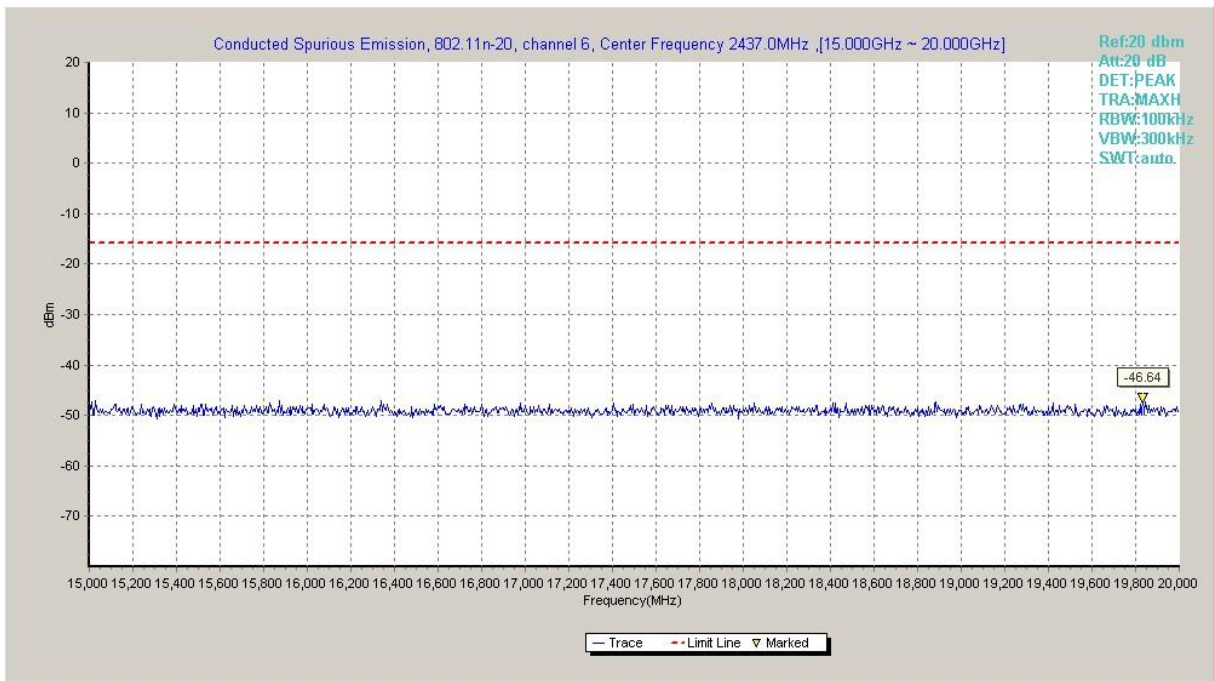


Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

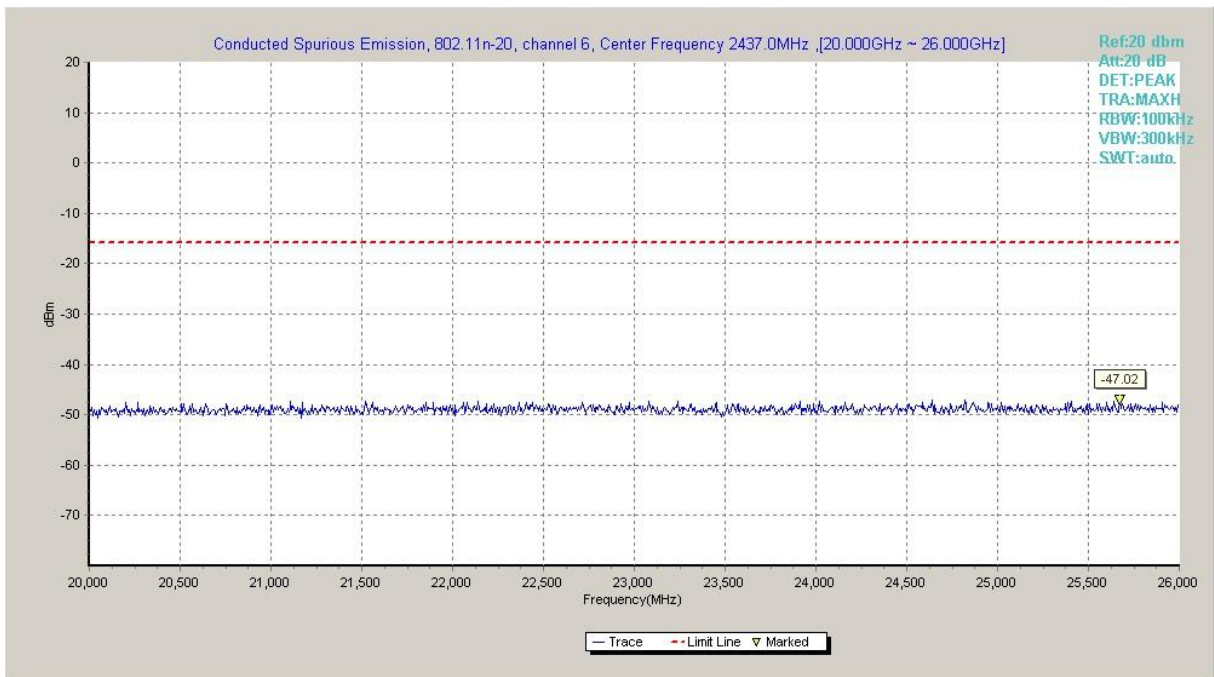


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

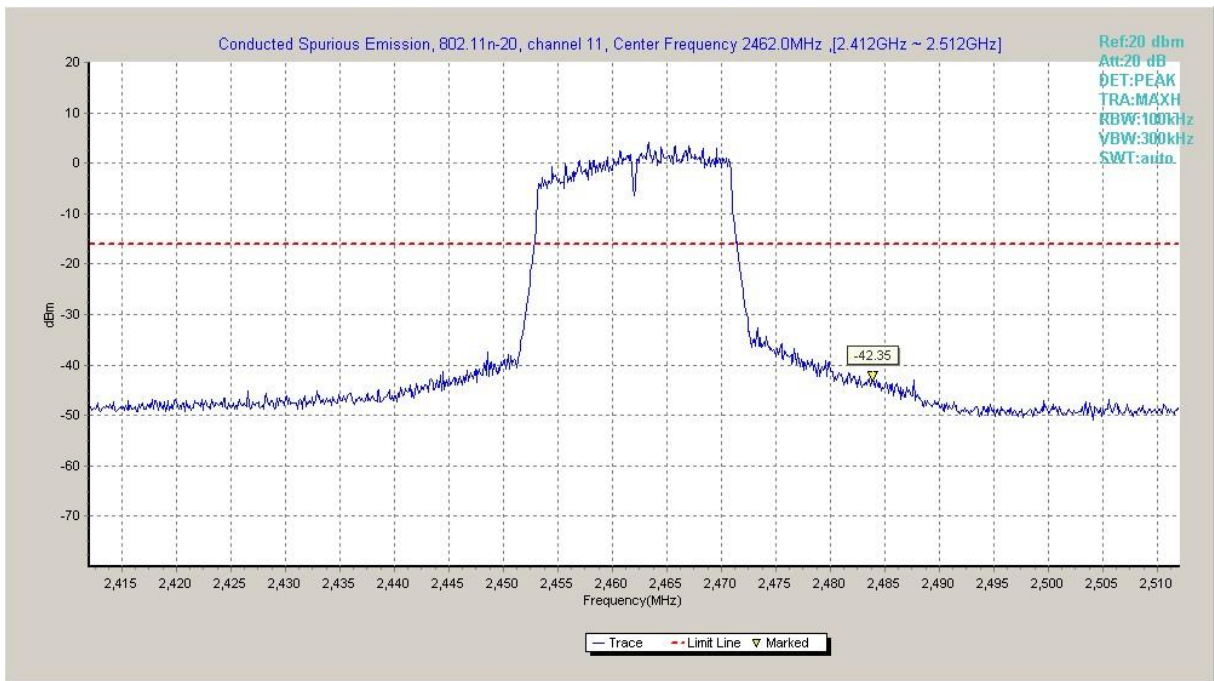


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

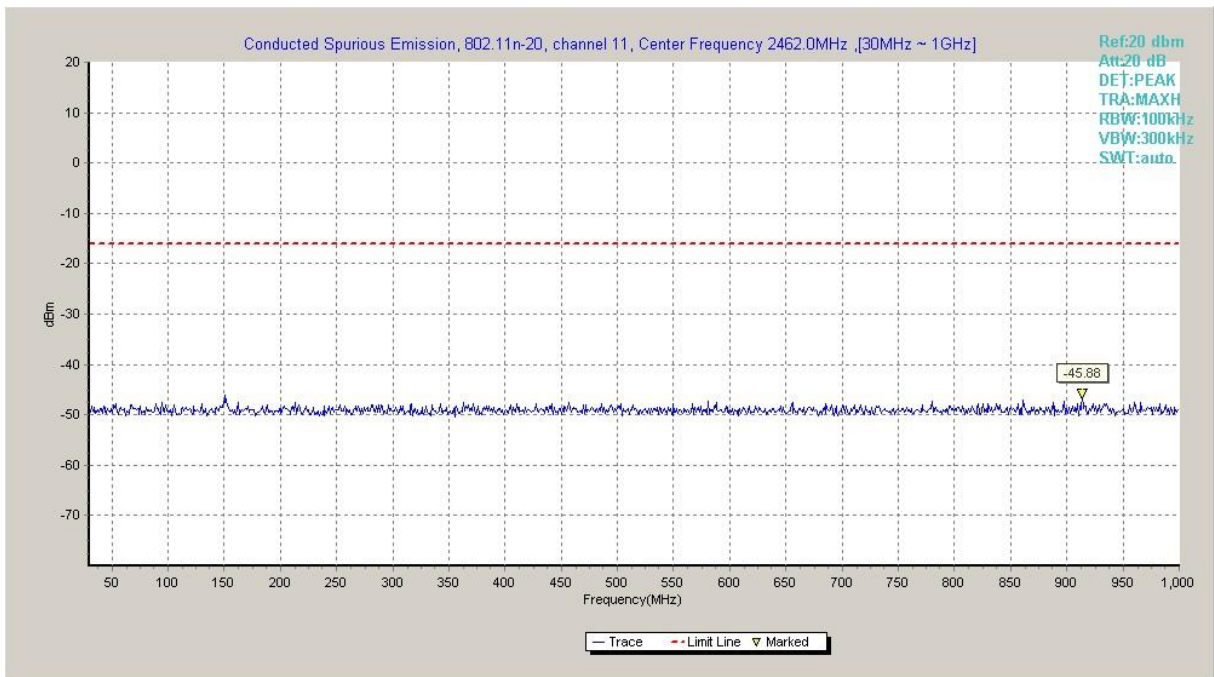


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

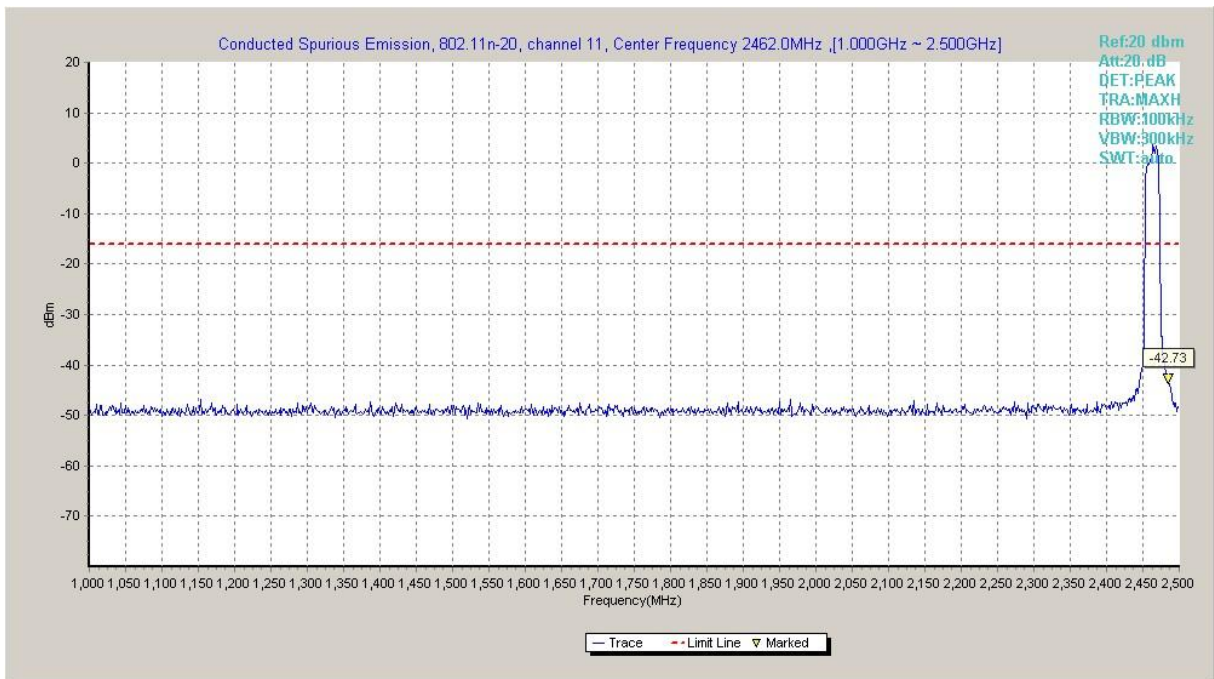


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

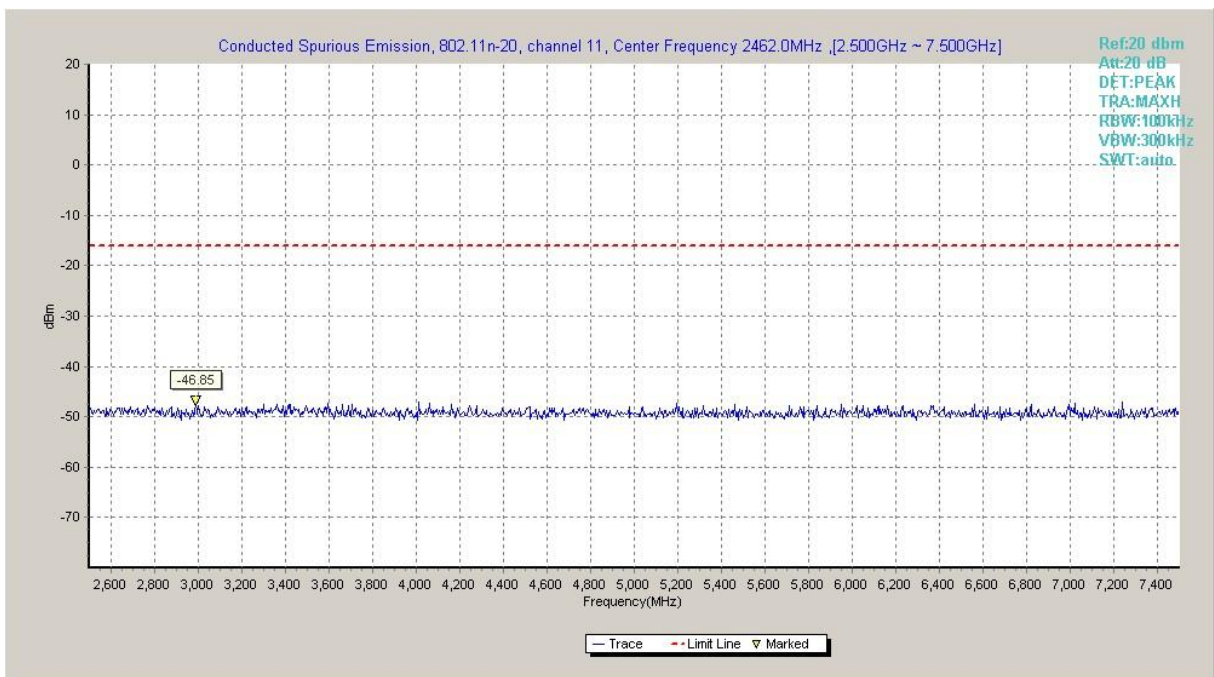


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

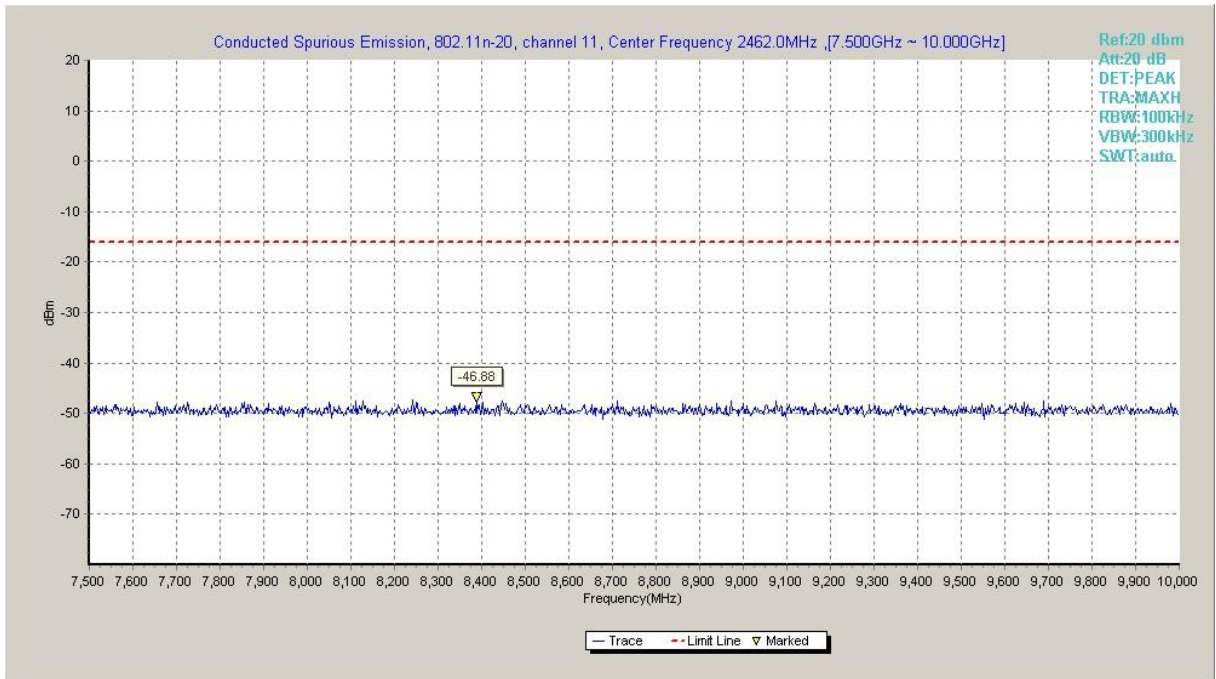


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

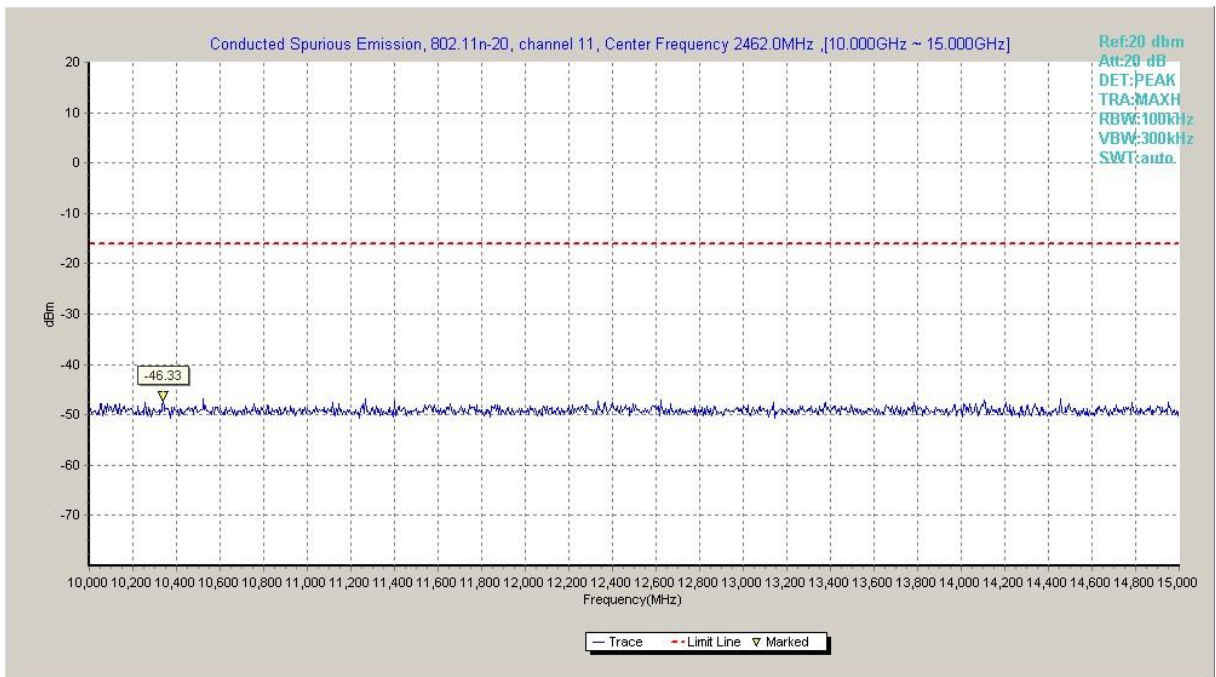


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

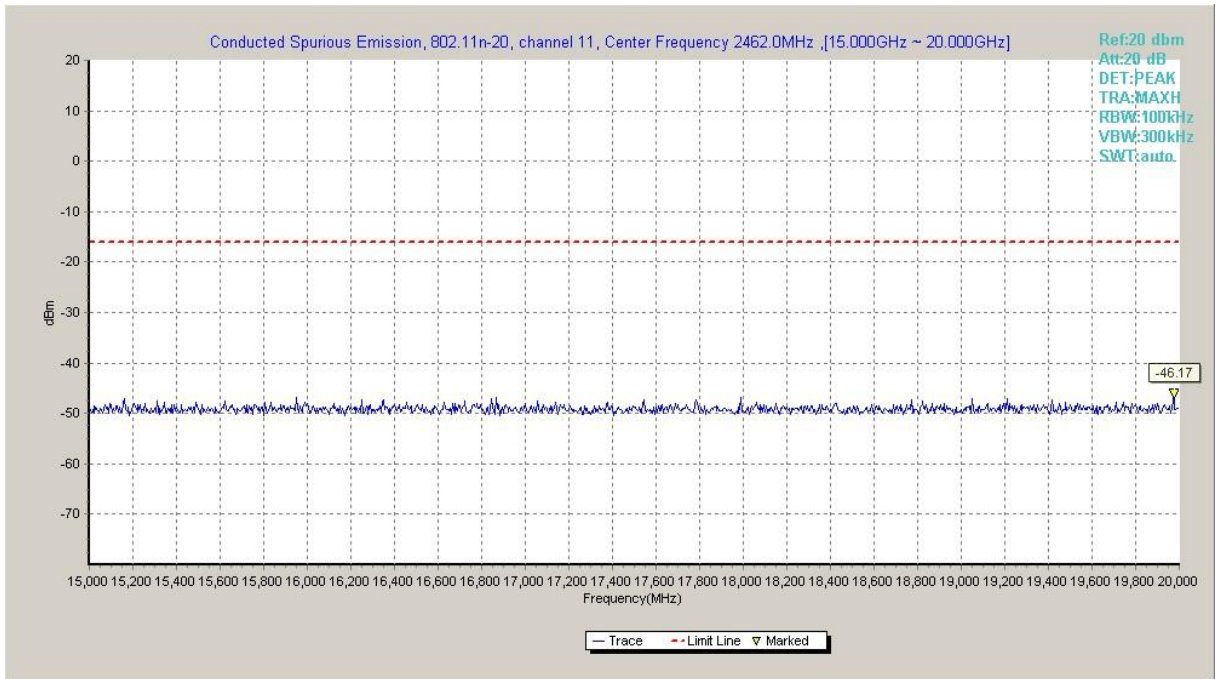


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

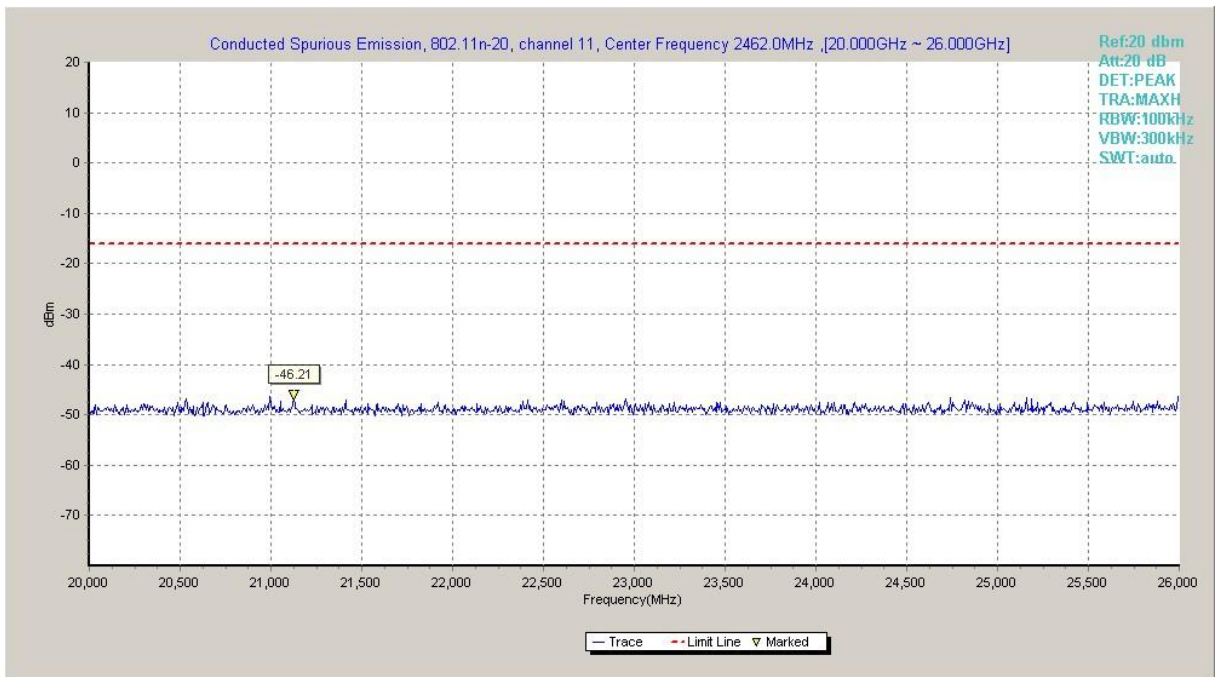


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

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(μV/m)	Measurement distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30

Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

EUT ID: EUT1

Measurement Results for Set.1:

802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power	2.38GHz ~2.43GHz	Fig.A.6.2.1	P
	1	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	6	9 kHz ~30 MHz	--	P
		30 MHz ~1 GHz	--	P
		1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	Power	18 GHz~ 26.5 GHz	--	P
		2.45GHz ~2.5GHz	Fig.A.6.2.2	P
		11	1 GHz ~ 3 GHz	--
3 GHz ~ 18 GHz	--		P	

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power	2.38GHz ~2.43GHz	Fig.A.6.2.3	P
	1	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	6	30 MHz ~1 GHz	--	P
		1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
		18 GHz~ 26.5 GHz	--	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.4	P
	11	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n (HT20)	Power	2.38GHz ~2.43GHz	Fig.A.6.2.5	P
	1	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
	6	30 MHz ~1 GHz	--	P
		1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	P
		18 GHz~ 26.5 GHz	--	P
	Power	2.45GHz ~2.5GHz	Fig.A.6.2.6	P
	11	1 GHz ~ 3 GHz	--	P
		3 GHz ~ 18 GHz	--	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:

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

802.11b-Average

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2383.510	46.27	2.9	32.0	11.39	54.0	7.7	H	155	8
2385.000	46.28	2.9	32.0	11.40	54.0	7.7	H	155	6
4824.000	35.01	-32.5	34.0	33.54	54.0	19.0	H	155	25
7236.000	37.93	-31.2	35.7	33.34	54.0	16.1	H	155	70
9648.000	39.10	-32.8	36.8	35.09	54.0	14.9	H	155	135
12060.000	42.88	-29.7	38.9	33.63	54.0	11.1	H	155	270

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2380.790	46.33	2.9	32.0	11.46	54.0	7.7	H	155	170
2485.620	46.45	2.9	32.1	11.43	54.0	7.6	H	155	150
4873.500	35.18	-32.5	34.0	33.71	54.0	18.8	H	155	20
7311.000	37.73	-31.3	35.8	33.30	54.0	16.3	H	155	180
9748.500	37.76	-32.4	37.0	33.19	54.0	16.2	H	155	202
12184.500	43.23	-29.3	38.9	33.57	54.0	10.8	H	155	8

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.750	46.47	2.9	32.1	11.45	54.0	7.5	H	155	25
2487.940	46.46	2.9	32.1	11.43	54.0	7.5	H	155	49
4924.500	35.18	-32.4	34.0	33.63	54.0	18.8	H	155	4
7386.000	37.74	-31.5	35.8	33.43	54.0	16.3	H	155	6
9847.500	39.69	-30.8	37.1	33.41	54.0	14.3	H	155	25
12310.500	43.68	-29.1	39.0	33.85	54.0	10.3	H	155	186



802.11b-Peak
Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2384.606	59.42	2.9	32.0	24.54	74.0	14.6	H	155	0
2388.736	59.62	2.9	32.0	24.74	74.0	14.4	V	155	0
4824.000	42.43	-32.5	34.0	40.96	74.0	31.6	V	155	22
7236.000	43.09	-31.2	35.7	38.50	74.0	30.9	V	155	66
9648.000	46.46	-32.8	36.8	42.45	74.0	27.5	V	155	132
12060.000	47.71	-29.7	38.9	38.45	74.0	26.3	V	155	274

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2370.230	47.88	-32.8	32.0	48.69	74.0	26.1	H	155	176
2579.220	49.04	-32.7	32.2	49.55	74.0	25.0	H	155	154
4874.250	47.12	-32.5	34.0	45.65	74.0	26.9	V	155	22
7311.000	43.22	-31.3	35.8	38.79	74.0	30.8	V	155	176
9748.500	44.13	-32.4	37.0	39.56	74.0	29.9	H	155	198
12185.250	46.93	-29.3	38.9	37.27	74.0	27.1	H	155	0

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2484.340	59.35	2.9	32.1	24.33	74.0	14.7	H	155	22
2489.380	59.99	2.9	32.1	24.97	74.0	14.0	V	155	44
4923.750	41.98	-32.4	34.0	40.42	74.0	32.0	H	155	0
7386.000	43.30	-31.5	35.8	38.99	74.0	30.7	H	155	0
9848.250	45.41	-30.8	37.1	39.11	74.0	28.6	H	155	22
12309.750	47.32	-29.1	39.0	37.48	74.0	26.7	H	155	176



802.11g - Average
Ch1

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2385.802	46.39	2.9	32.0	11.51	54.0	7.6	H	155	4
2389.800	46.65	2.9	32.0	11.76	54.0	7.4	H	155	2
4824.000	34.78	-32.5	34.0	33.31	54.0	19.2	H	155	25
7236.000	37.84	-31.2	35.7	33.25	54.0	16.2	H	155	350
9648.000	37.57	-32.8	36.8	33.57	54.0	16.4	H	155	92
12060.000	42.79	-29.7	38.9	33.53	54.0	11.2	H	155	85

Ch6

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2384.630	46.31	2.9	32.0	11.43	54.0	7.7	H	155	135
2487.490	46.44	2.9	32.1	11.41	54.0	7.6	H	155	160
4873.500	34.80	-32.5	34.0	33.34	54.0	19.2	H	155	92
7311.000	37.58	-31.3	35.8	33.15	54.0	16.4	H	155	115
9748.500	37.75	-32.4	37.0	33.18	54.0	16.2	H	155	112
12184.500	43.23	-29.3	38.9	33.57	54.0	10.8	H	155	85

Ch11

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.602	46.46	2.9	32.1	11.44	54.0	7.5	H	155	46
2488.302	46.45	2.9	32.1	11.43	54.0	7.5	H	155	60
4924.500	34.95	-32.4	34.0	33.39	54.0	19.1	H	155	116
7386.000	37.92	-31.5	35.8	33.61	54.0	16.1	H	155	8
9847.500	38.01	-30.8	37.1	31.72	54.0	16.0	H	155	128
12310.500	42.89	-29.1	39.0	33.06	54.0	11.1	H	155	94



802.11g - Peak
Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2385.726	59.60	2.9	32.0	24.72	74.0	14.4	H	155	0
2389.422	59.96	2.9	32.0	25.07	74.0	14.0	H	155	0
4824.000	41.66	-32.5	34.0	40.19	74.0	32.3	V	155	22
7236.000	43.81	-31.2	35.7	39.22	74.0	30.2	V	155	352
9648.000	43.63	-32.8	36.8	39.62	74.0	30.4	V	155	88
12060.000	47.41	-29.7	38.9	38.15	74.0	26.6	V	155	88

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2375.490	47.88	-32.3	32.0	48.20	74.0	26.1	H	155	132
2503.400	48.59	-32.0	32.1	48.51	74.0	25.4	H	155	154
4874.250	42.59	-32.5	34.0	41.13	74.0	31.4	V	155	88
7311.000	43.47	-31.3	35.8	39.04	74.0	30.5	H	155	110
9747.750	43.05	-32.4	37.0	38.50	74.0	30.9	V	155	110
12185.250	47.33	-29.3	38.9	37.66	74.0	26.7	V	155	88

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2485.410	59.83	2.9	32.1	24.80	74.0	14.2	H	155	44
2483.980	59.96	2.9	32.1	24.94	74.0	14.0	H	155	66
4923.750	41.63	-32.4	34.0	40.08	74.0	32.4	V	155	110
7386.000	42.62	-31.5	35.8	38.31	74.0	31.4	V	155	0
9848.250	44.99	-30.8	37.1	38.69	74.0	29.0	H	155	132
12310.500	47.35	-29.1	39.0	37.51	74.0	26.7	H	155	88



802.11n-HT20-Average
Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2388.520	46.42	2.9	32.0	11.54	54.0	7.6	H	155	92
2389.403	46.56	2.9	32.0	11.68	54.0	7.4	H	155	136
4824.000	34.94	-32.5	34.0	33.47	54.0	19.1	H	155	8
7236.000	37.99	-31.2	35.7	33.40	54.0	16.0	H	155	70
9648.000	37.76	-32.8	36.8	33.75	54.0	16.2	H	155	48
12060.000	42.91	-29.7	38.9	33.66	54.0	11.1	H	155	246

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2380.890	46.30	2.9	32.0	11.43	54.0	7.7	H	155	226
2484.490	46.43	2.9	32.1	11.41	54.0	7.6	H	155	92
4874.000	35.14	-32.5	34.0	33.67	54.0	18.9	H	155	70
7311.000	37.94	-31.3	35.8	33.52	54.0	16.1	H	155	8
9747.750	37.97	-32.4	37.0	33.41	54.0	16.0	H	155	48
12185.250	43.39	-29.3	38.9	33.73	54.0	10.6	H	155	246

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.510	46.45	2.9	32.1	11.43	54.0	7.6	H	155	6
2486.970	46.44	2.9	32.1	11.42	54.0	7.6	H	155	26
4923.750	35.40	-32.4	34.0	33.84	54.0	18.6	H	155	92
7386.000	37.90	-31.5	35.8	33.59	54.0	16.1	H	155	24
9848.250	39.85	-30.8	37.1	33.55	54.0	14.1	H	155	136
12310.500	43.85	-29.1	39.0	34.01	54.0	10.2	H	155	356



802.11n-HT20-Peak

Ch1

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2388.680	59.89	2.9	32.0	25.01	74.0	14.1	H	155	88
2389.562	61.50	2.9	32.0	26.62	74.0	12.5	V	155	132
4824.000	41.50	-32.5	34.0	40.03	74.0	32.5	H	155	0
7236.000	43.35	-31.2	35.7	38.76	74.0	30.7	H	155	66
9648.000	42.68	-32.8	36.8	38.67	74.0	31.3	V	155	44
12060.000	46.83	-29.7	38.9	37.58	74.0	27.2	V	155	242

Ch6

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2379.640	49.13	-32.0	32.0	49.07	74.0	24.9	H	155	220
2518.640	48.42	-32.5	32.1	48.83	74.0	25.6	V	155	88
4874.000	40.77	-32.5	34.0	39.30	74.0	33.2	H	155	66
7311.000	43.01	-31.3	35.8	38.58	74.0	31.0	H	155	0
9747.750	42.91	-32.4	37.0	38.36	74.0	31.1	H	155	44
12185.250	47.50	-29.3	38.9	37.84	74.0	26.5	V	155	242

Ch11

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2485.240	61.11	2.9	32.1	26.09	74.0	12.9	V	155	0
2484.530	61.83	2.9	32.1	26.81	74.0	12.2	H	155	22
4923.750	41.15	-32.4	34.0	39.60	74.0	32.8	V	155	88
7386.000	42.79	-31.5	35.8	38.49	74.0	31.2	V	155	22
9848.250	44.43	-30.8	37.1	38.13	74.0	29.6	H	155	132
12310.500	47.97	-29.1	39.0	38.13	74.0	26.0	H	155	352

Test graphs as below for Set1:

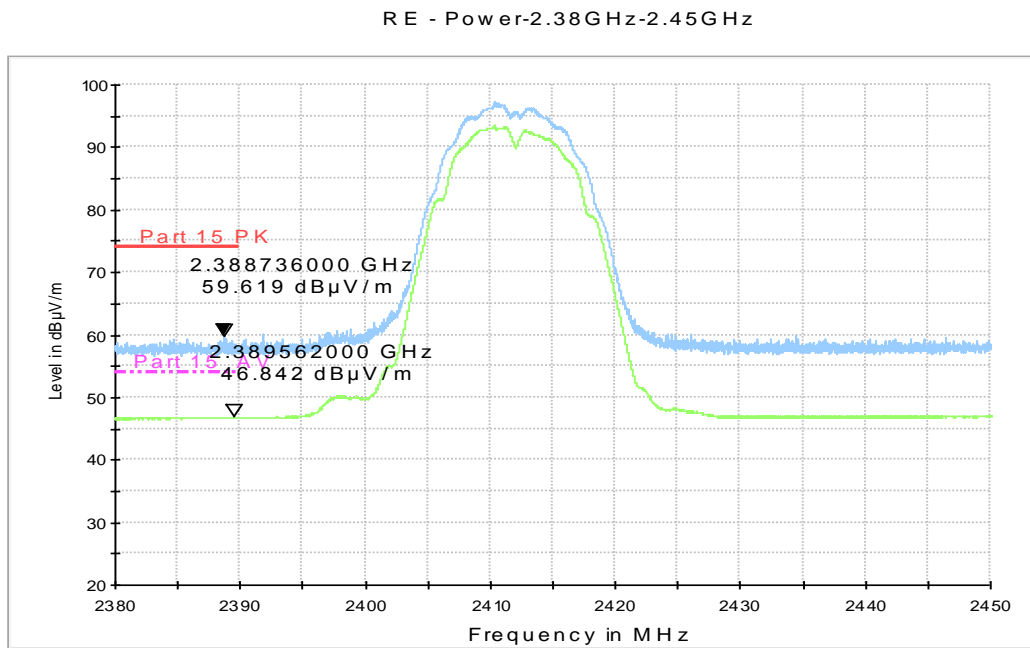


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.38 GHz – 2.43GHz

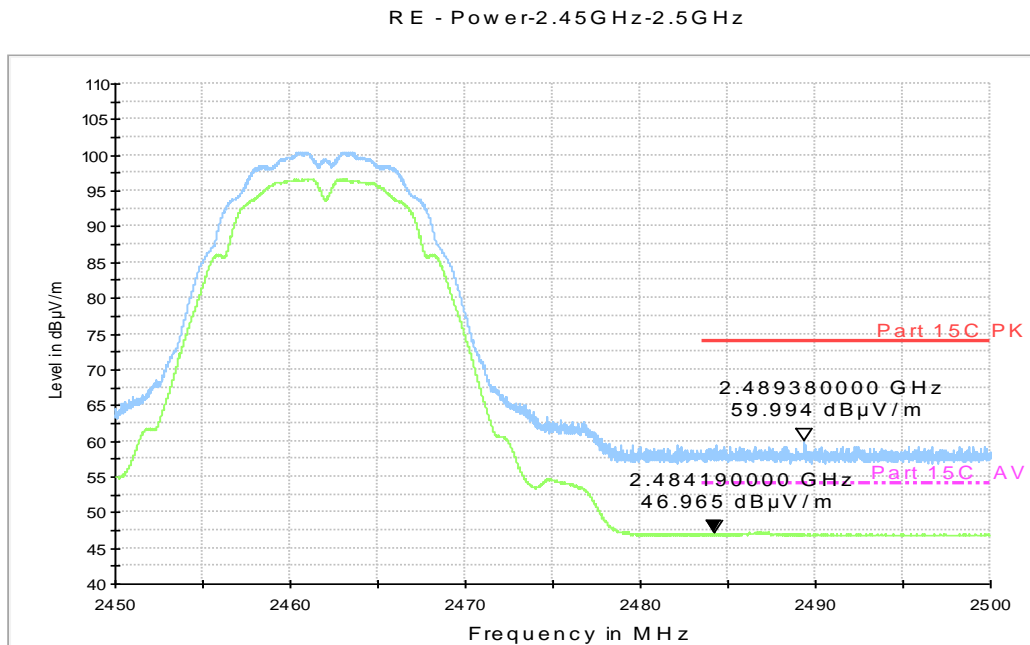


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

RE - Power-2.38GHz-2.45GHz

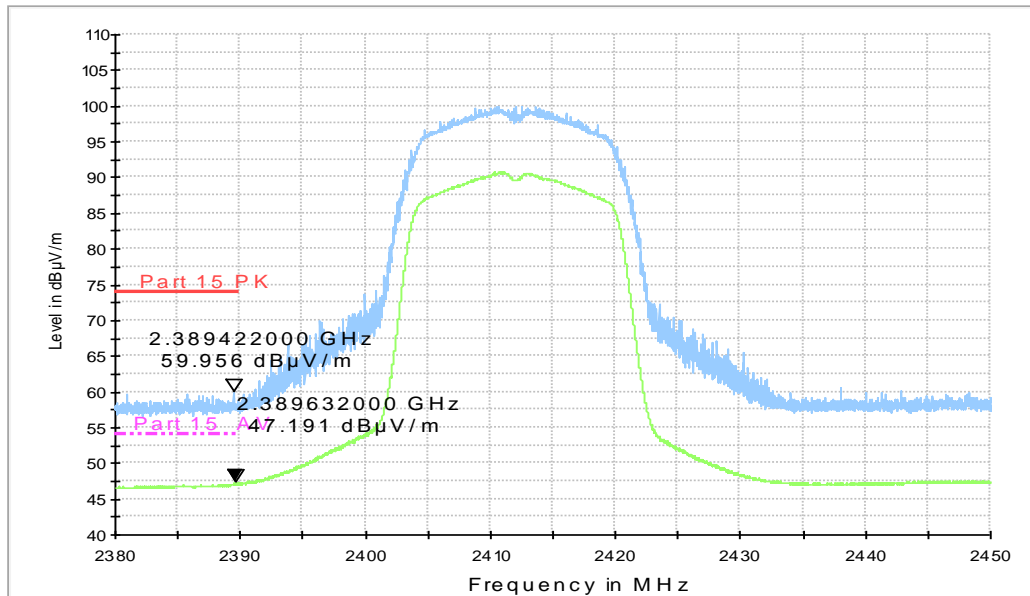
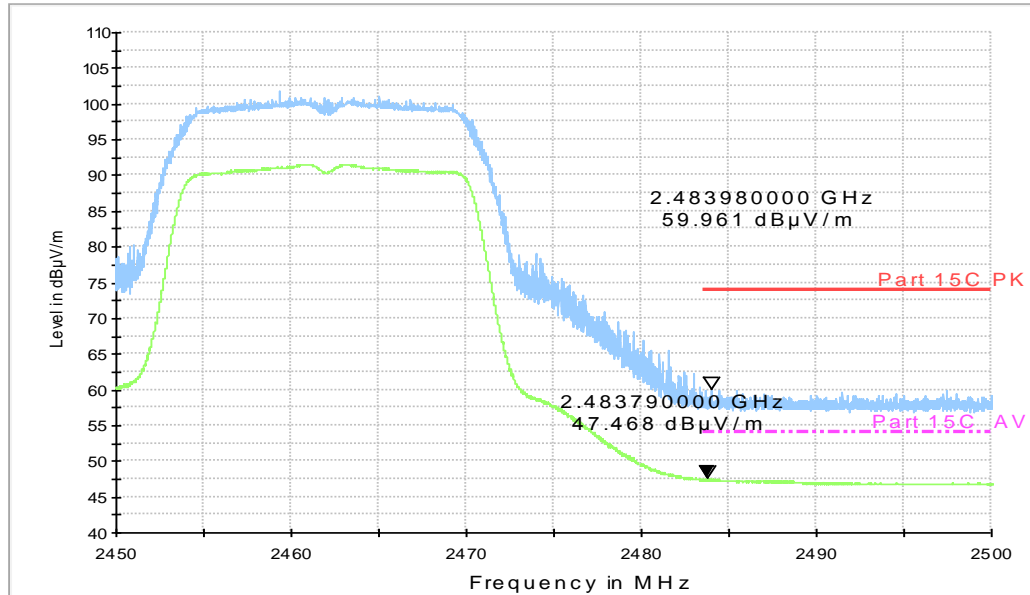


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.38 GHz - 2.43GHz

RE - Power-2.45GHz-2.5GHz



3

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

RE - Power-2.38GHz-2.45GHz

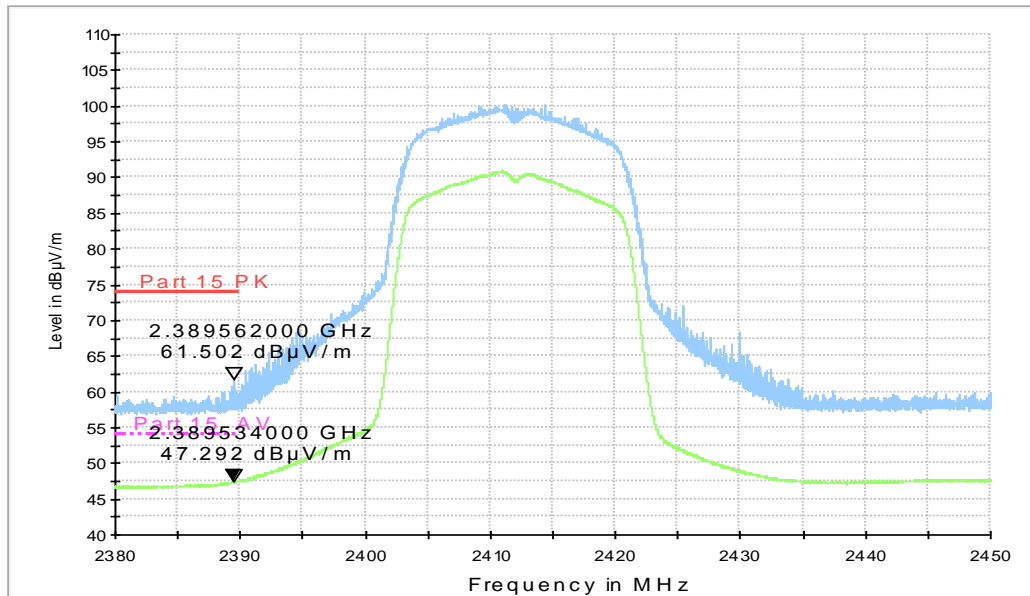


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.38 GHz - 2.45GHz

RE - Power-2.45GHz-2.5GHz

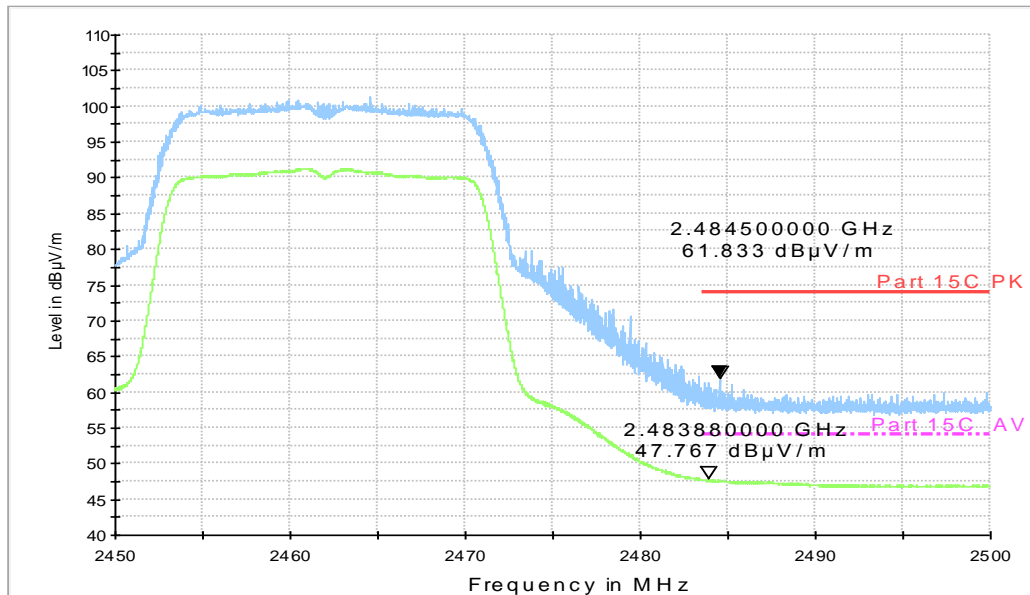


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz



A.7. AC Power-line Conducted Emission

Method of Measurement: See ANSI C63.10-2013-clause 6.2

- 1 The one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
- 2 If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
- 3 The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
- 4 If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.
- 5 If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.³⁶ Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	66 to 56	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

Frequency range (MHz)	Average Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11b	Idle	
0.15 to 0.5	56 to 46	Fig.A.7.1	Fig.A.7.2	P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

Conclusion: Pass

Test graphs as below:

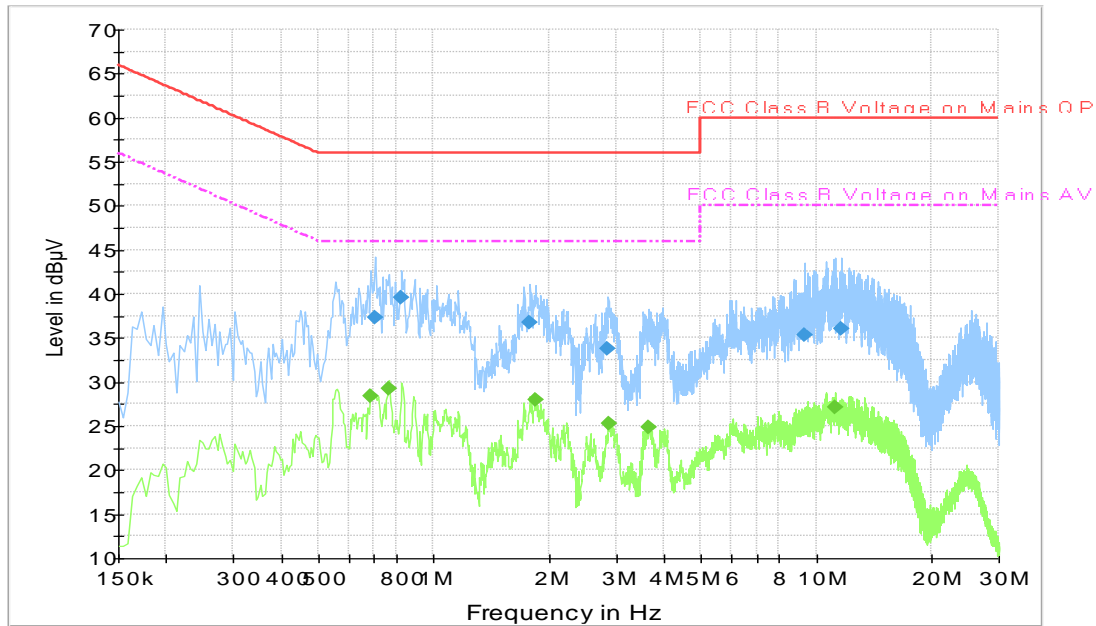


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.703500	37.3	2000.0	9.000	On	L1	19.8	18.7	56.0
0.825000	39.5	2000.0	9.000	On	L1	19.7	16.5	56.0
1.788000	36.8	2000.0	9.000	On	L1	19.7	19.2	56.0
2.859000	33.8	2000.0	9.000	On	L1	19.7	22.2	56.0
9.361500	35.4	2000.0	9.000	On	L1	19.8	24.6	60.0
11.607000	36.1	2000.0	9.000	On	L1	19.9	23.9	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.685500	28.4	2000.0	9.000	On	L1	19.8	17.6	46.0
0.766500	29.3	2000.0	9.000	On	L1	19.7	16.7	46.0
1.846500	28.0	2000.0	9.000	On	L1	19.7	18.0	46.0
2.881500	25.2	2000.0	9.000	On	L1	19.7	20.8	46.0
3.655500	24.8	2000.0	9.000	On	L1	19.6	21.2	46.0
11.170500	27.1	2000.0	9.000	On	L1	19.9	22.9	50.0

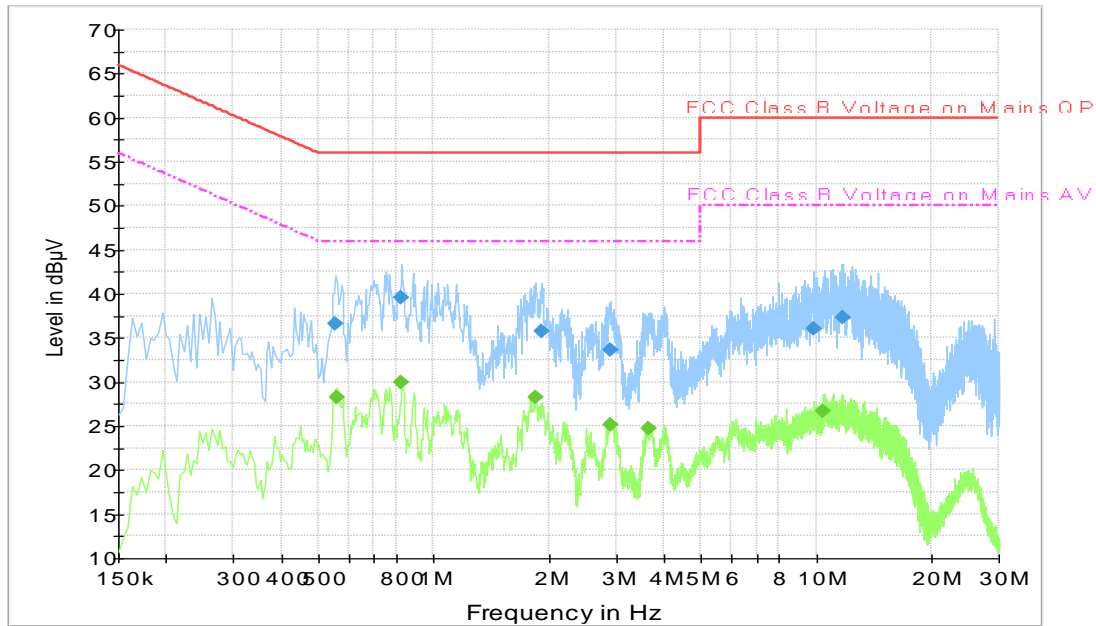


Fig.A.7.2 AC Powerline Conducted Emission-Idle

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

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.555000	36.6	2000.0	9.000	On	N	19.9	19.4	56.0
0.825000	39.5	2000.0	9.000	On	L1	19.7	16.5	56.0
1.918500	35.8	2000.0	9.000	On	L1	19.7	20.2	56.0
2.908500	33.7	2000.0	9.000	On	L1	19.7	22.3	56.0
9.874500	36.0	2000.0	9.000	On	L1	19.8	24.0	60.0
11.755500	37.3	2000.0	9.000	On	L1	19.9	22.7	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.559500	28.3	2000.0	9.000	On	N	19.9	17.7	46.0
0.825000	29.9	2000.0	9.000	On	L1	19.7	16.1	46.0
1.851000	28.2	2000.0	9.000	On	L1	19.7	17.8	46.0
2.890500	25.1	2000.0	9.000	On	L1	19.7	20.9	46.0
3.651000	24.8	2000.0	9.000	On	L1	19.6	21.2	46.0
10.464000	26.7	2000.0	9.000	On	L1	19.8	23.3	50.0

ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  <hr/> <p>Certificate of Accreditation to ISO/IEC 17025:2005</p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p>Telecommunication Technology Labs, CAICT Beijing China</p>	
<p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p>	
<p>Electromagnetic Compatibility & Telecommunications</p>	
<p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p>	
<hr/> <p>2016-09-29 through 2017-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

END OF REPORT