

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

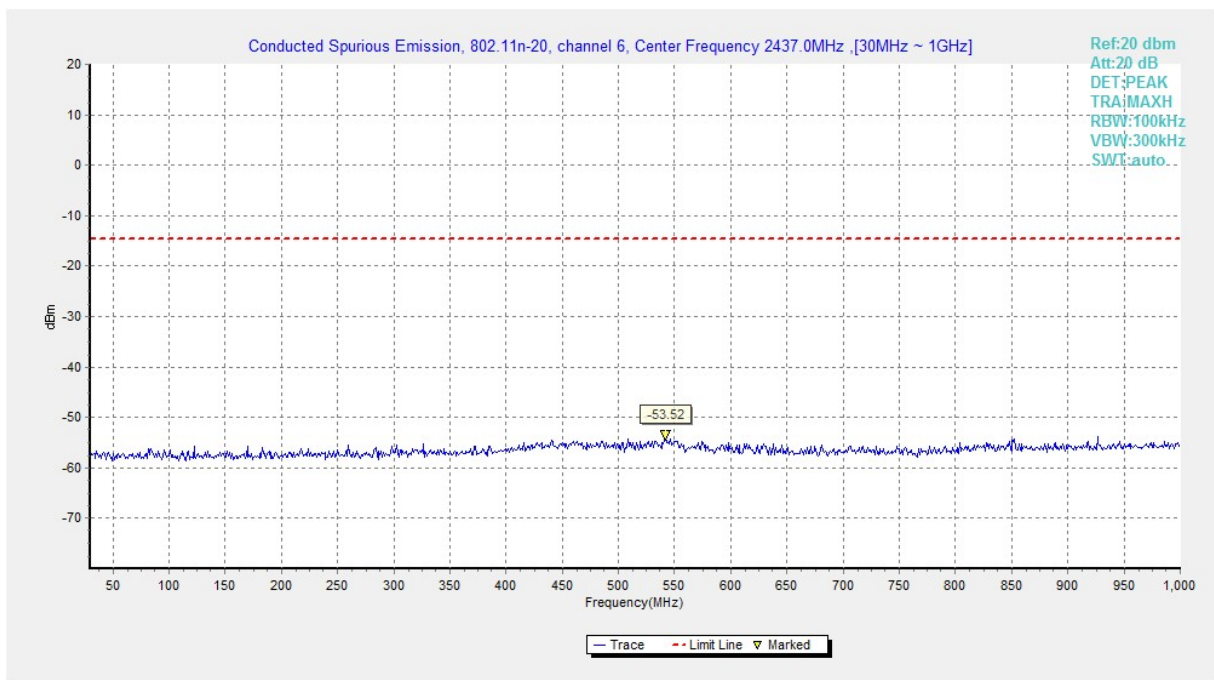


Fig.A.6.1.58 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 30 MHz-1 GHz)

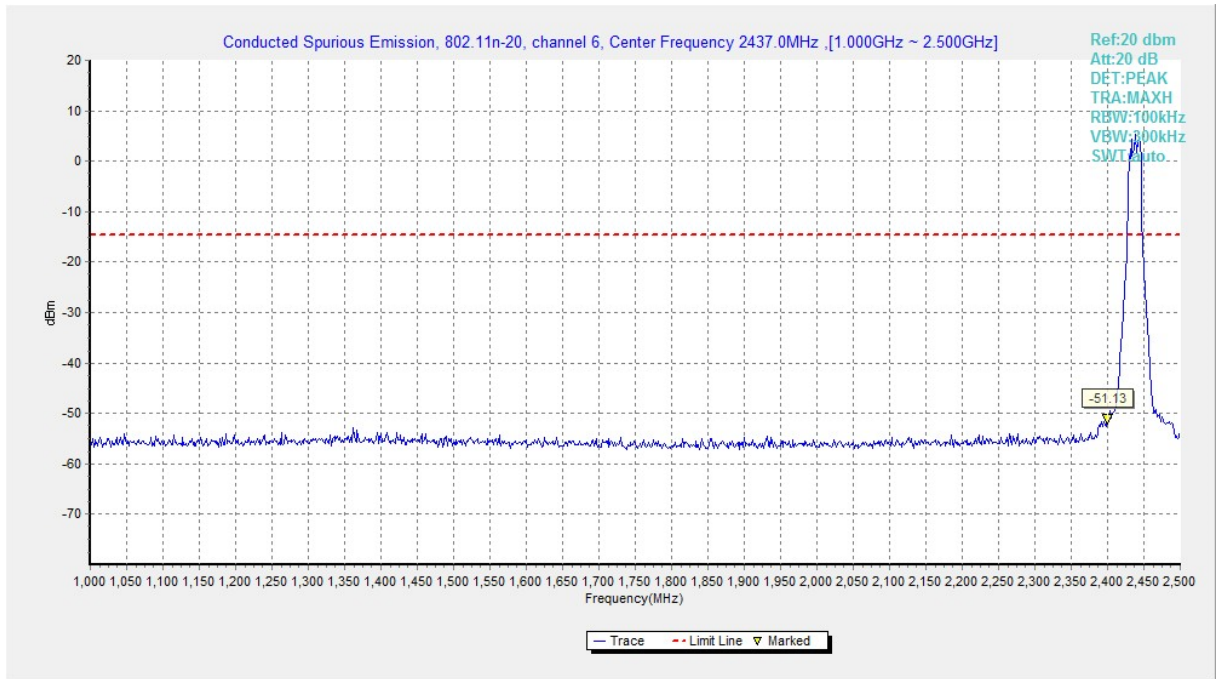


Fig.A.6.1.59 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 1 GHz-2.5 GHz)

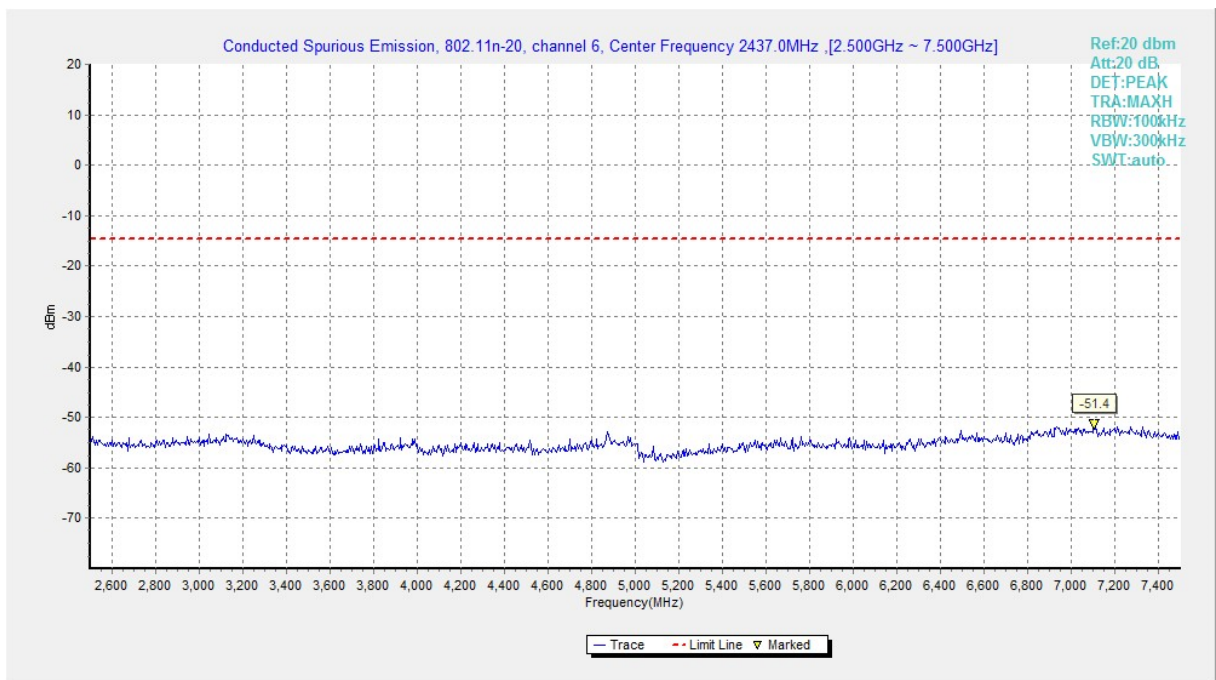


Fig.A.6.1.60 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 2.5 GHz-7.5 GHz)

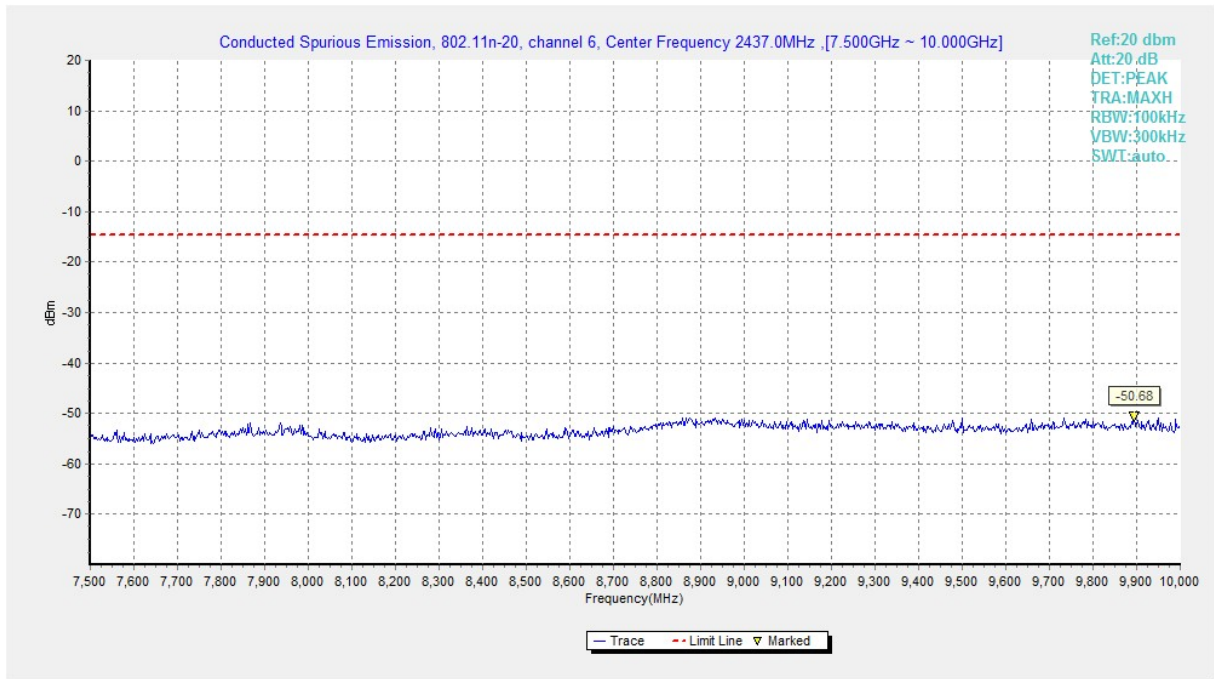


Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)

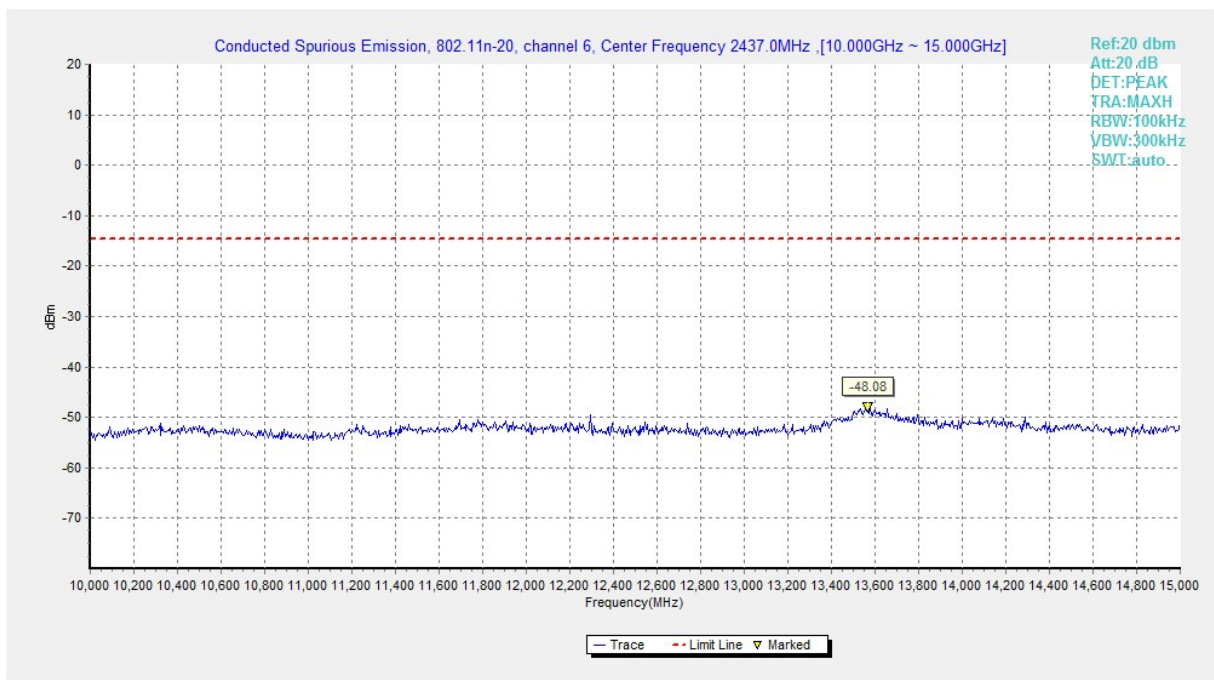


Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)

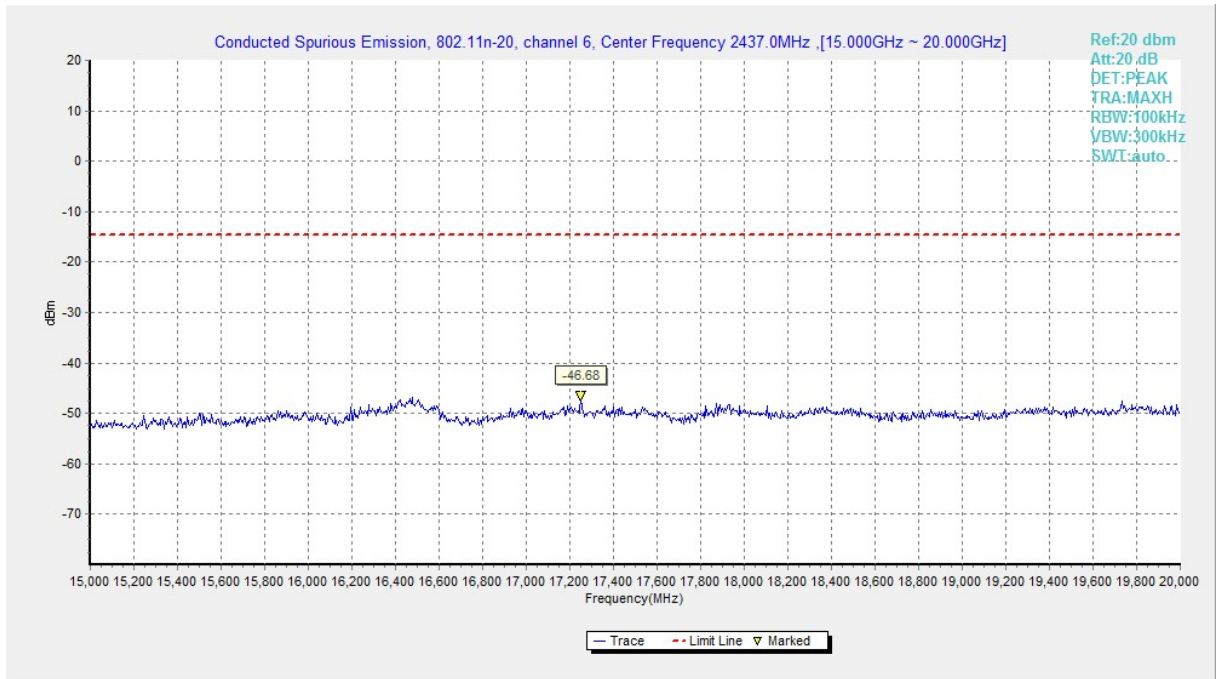


Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)

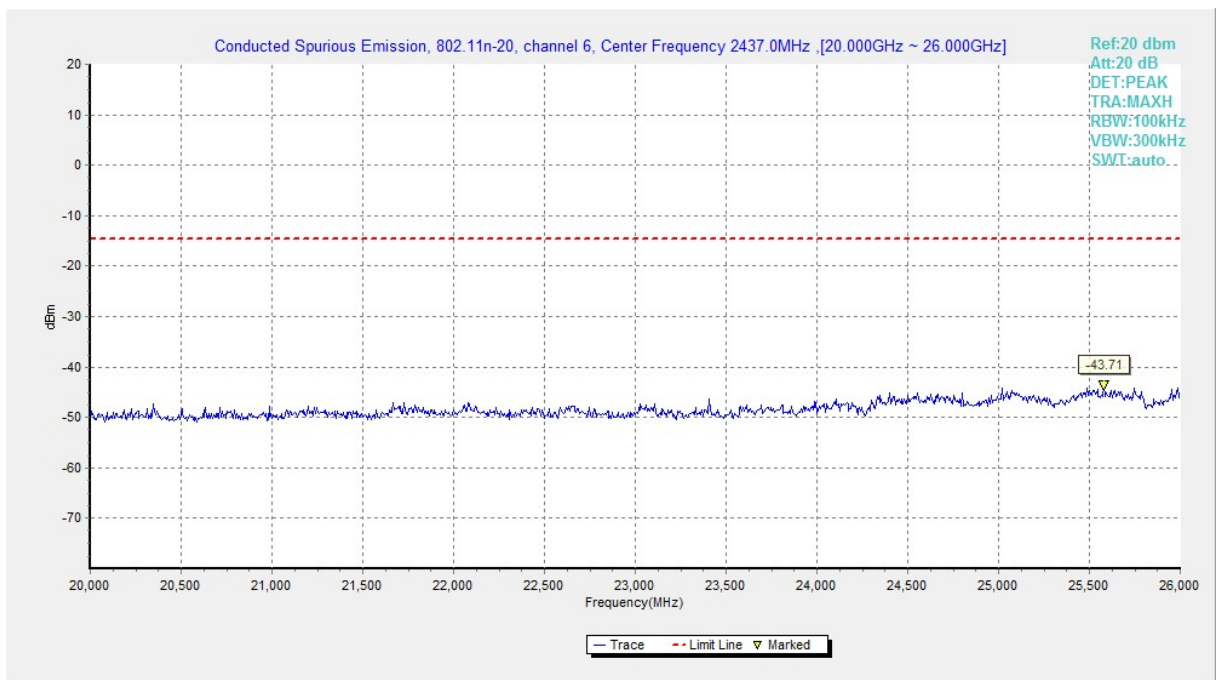


Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)

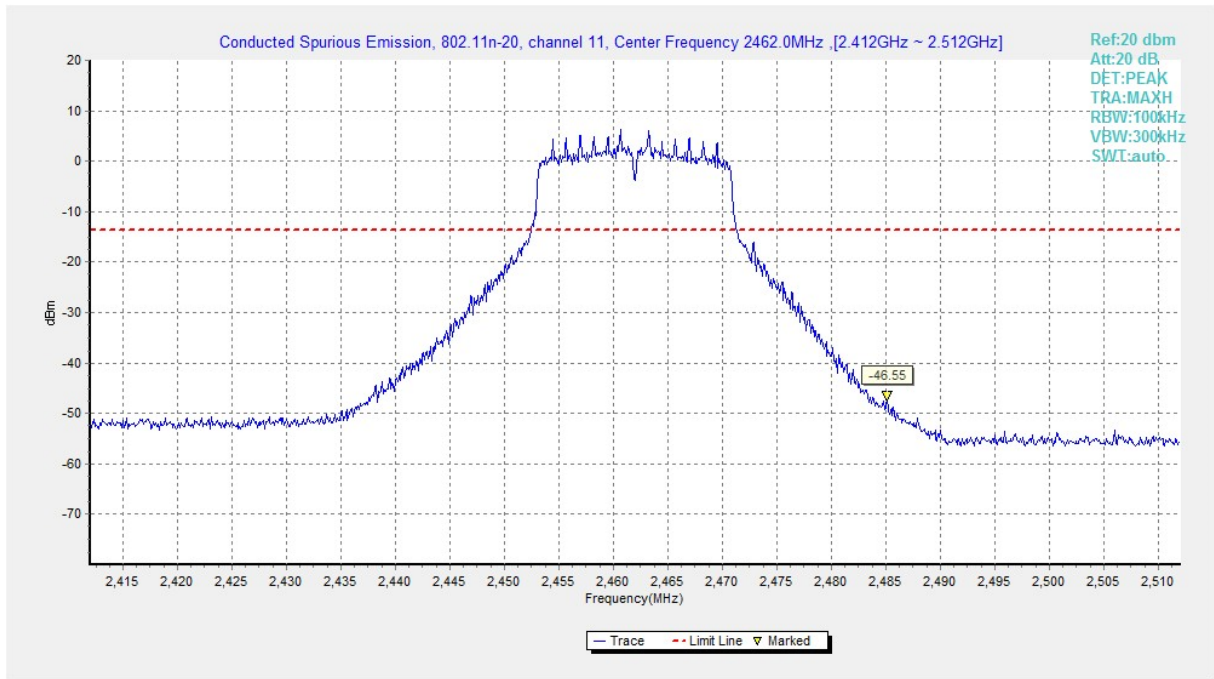


Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)

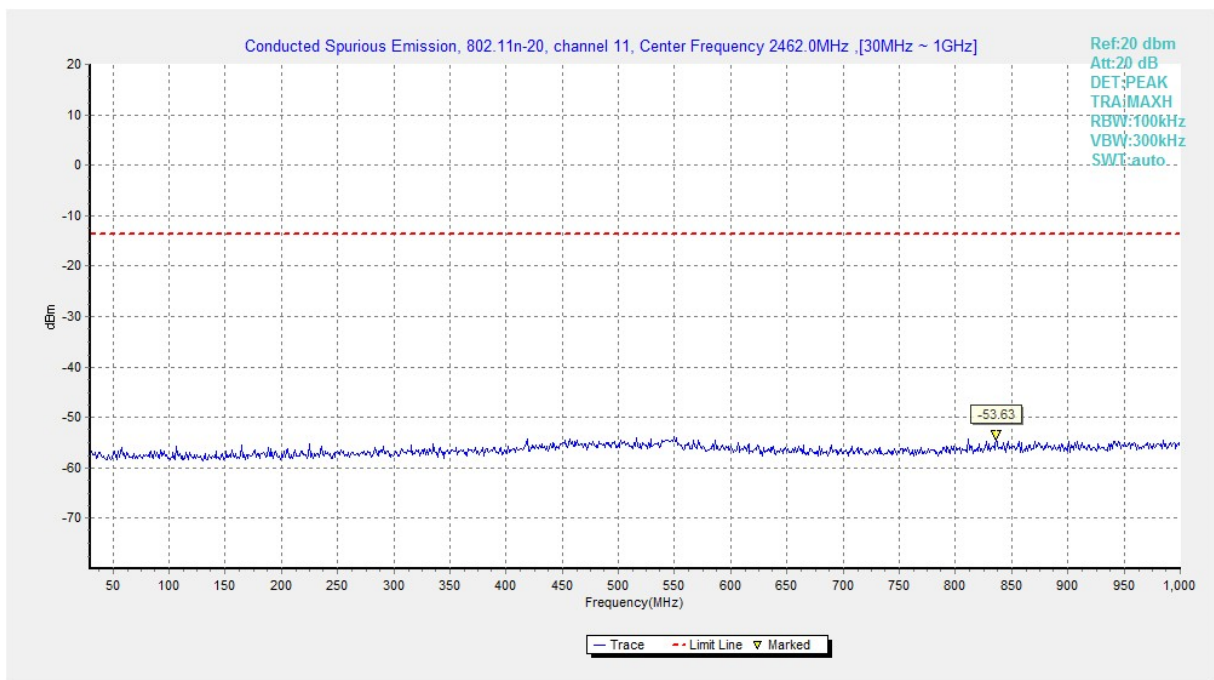


Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)

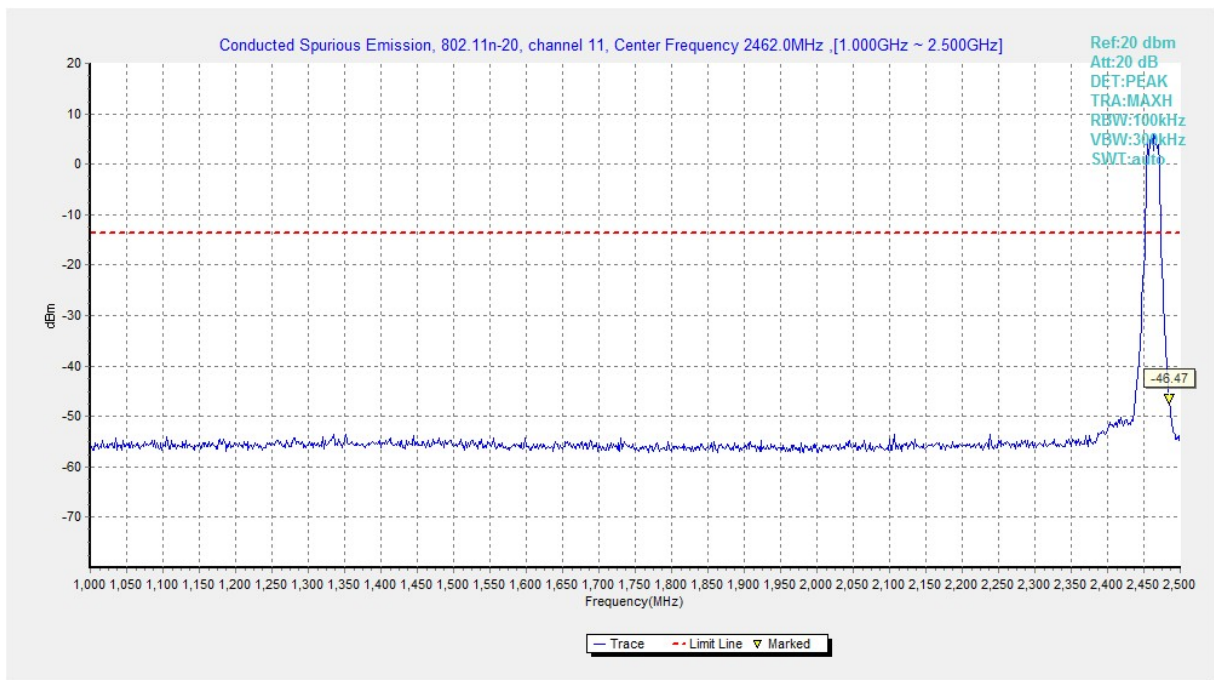


Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)

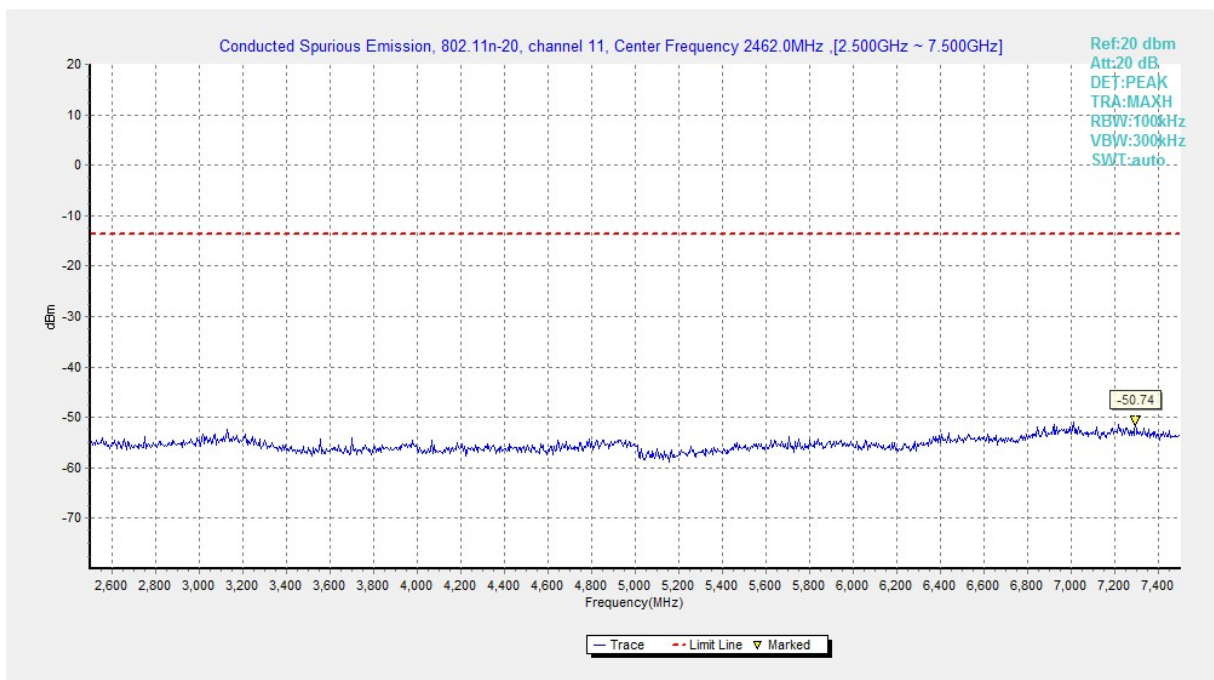


Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)

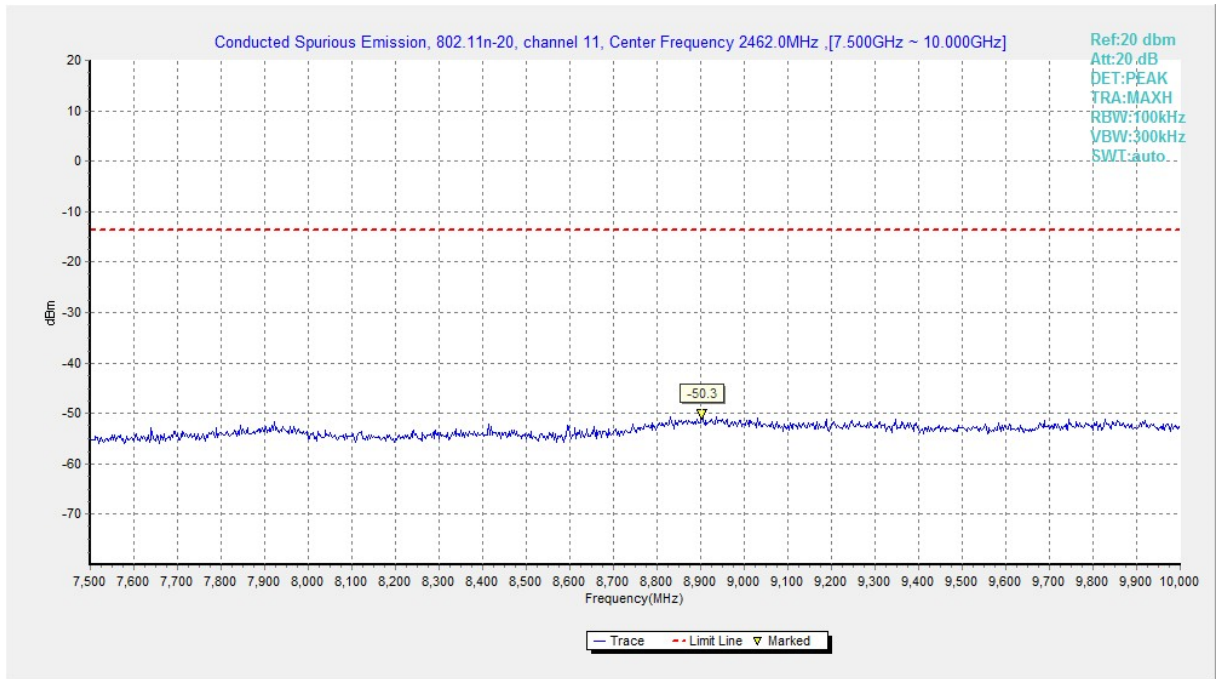


Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)

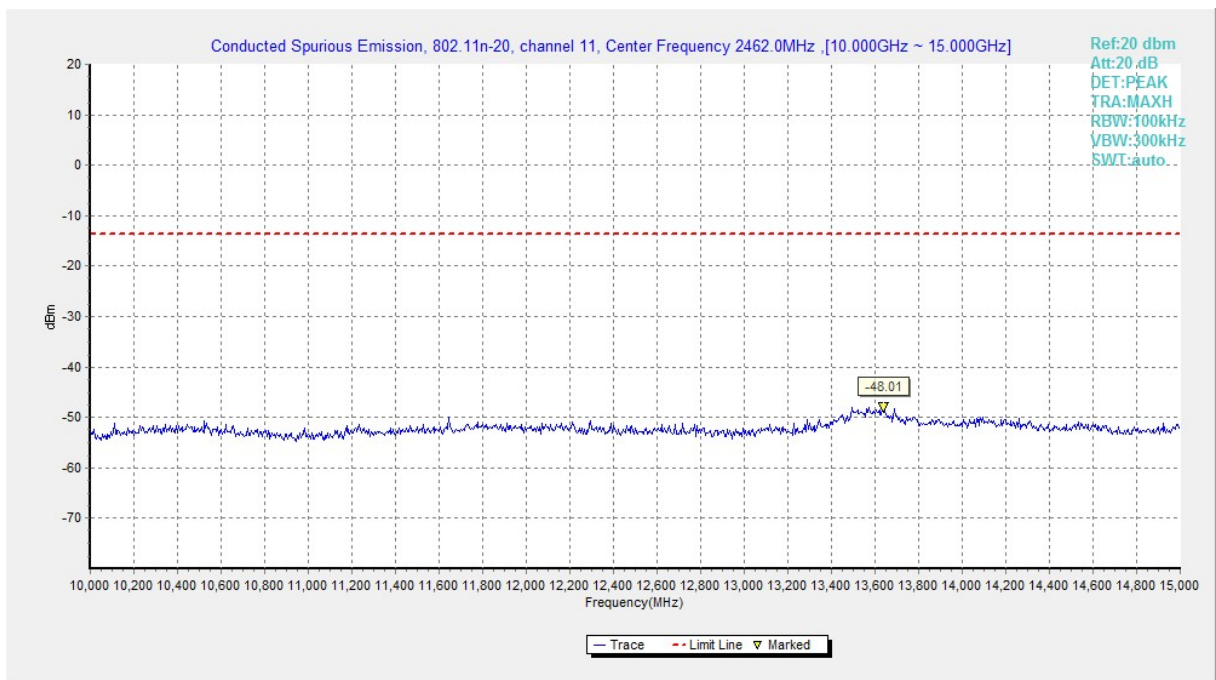


Fig.A.6.1.70 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 10 GHz-15 GHz)

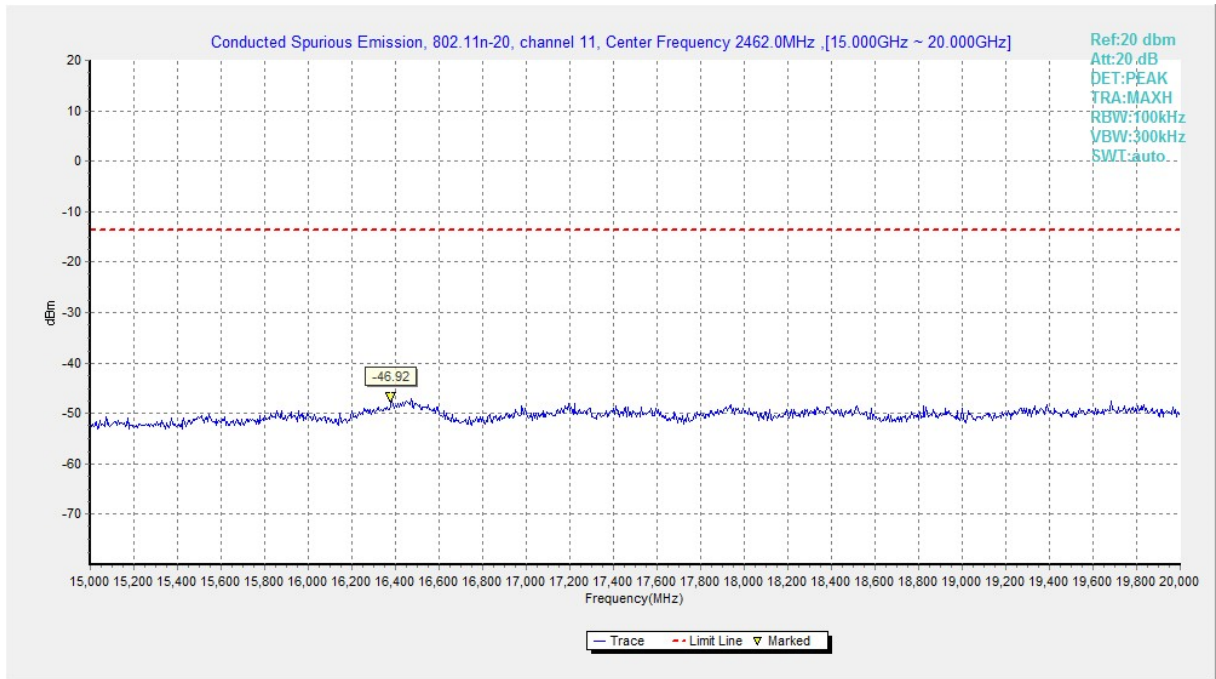


Fig.A.6.1.71 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 15 GHz-20 GHz)

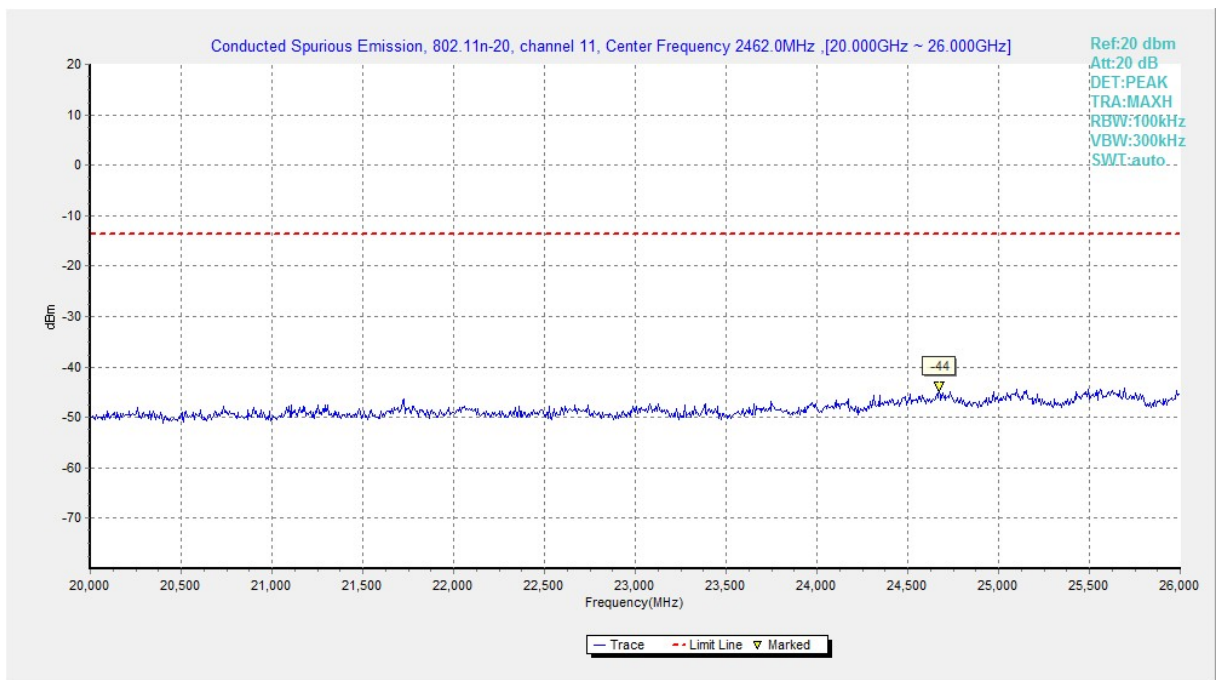


Fig.A.6.1.72 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 20 GHz-26 GHz)

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/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

EUT ID: UT13a

Measurement Results for EUT1:
802.11b mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11b	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.1	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.2	P

802.11g mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11g	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.3	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.4	P

802.11n-HT20 mode

Mode	Channel	Frequency Range	Test Results	Conclusion
802.11n(HT20)	Power(ch1)	2.31GHz ~2.43GHz	Fig.A.6.2.5	P
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.6	P

Conclusion: Pass
Note:

A "reference path loss" is established and the A_{Rpl} is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss.

P_{Mea} is the field strength recorded from the instrument.

The measurement results are obtained as described below:

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

802.11b-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)
2389.500	46.56	2.9	32.0	11.68	54.0	7.4	H	155	4
2388.600	46.44	2.9	32.0	11.56	54.0	7.6	H	155	26
4824.000	49.36	-33.2	34.1	48.46	54.0	4.6	H	155	356
7237.600	33.99	-30.9	35.7	29.11	54.0	20.0	H	155	348
9648.000	33.30	-30.5	36.8	26.97	54.0	20.7	H	155	174
12060.000	36.53	-28.7	38.9	26.32	54.0	17.5	H	155	112

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)
2385.600	46.48	2.9	32.0	11.61	54.0	7.5	H	155	226
2488.100	46.64	2.9	32.2	11.53	54.0	7.4	H	155	92
4874.000	49.06	-33.3	34.2	48.21	54.0	4.9	H	155	70
7311.000	32.35	-30.8	35.8	27.40	54.0	21.7	H	155	8
9748.000	33.40	-30.3	36.9	26.83	54.0	20.6	H	155	48
12185.000	36.85	-28.1	38.9	26.02	54.0	17.1	H	155	246

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)
2483.500	46.60	2.9	32.2	11.49	54.0	7.4	H	155	20
2484.400	46.64	2.9	32.2	11.53	54.0	7.4	H	155	18
4924.000	47.32	-33.5	34.2	46.68	54.0	6.7	H	155	90
7386.000	32.55	-31.5	35.8	28.23	54.0	21.5	H	155	114
9848.000	33.64	-30.2	37.0	26.80	54.0	20.4	H	155	36
12310.000	37.09	-27.8	39.0	25.88	54.0	16.9	H	155	2

802.11b-Peak
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)
2375.730	60.30	2.9	32.0	25.45	74.0	13.7	H	155	0
2388.580	60.06	2.9	32.0	25.18	74.0	13.9	V	155	22
4824.000	52.63	-33.2	34.1	51.73	74.0	21.4	V	155	352
7236.000	43.95	-30.9	35.7	39.08	74.0	30.1	V	155	352
9648.000	44.44	-30.5	36.8	38.12	74.0	29.6	V	155	176
12060.000	47.11	-28.7	38.9	36.90	74.0	26.9	V	155	110

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)
2370.800	43.99	-35.3	32.0	47.35	74.0	30.0	H	155	220
2519.600	43.35	-34.8	32.2	45.91	74.0	30.7	V	155	88
4874.000	52.21	-33.3	34.2	51.36	74.0	21.8	H	155	66
7311.000	43.74	-30.8	35.8	38.79	74.0	30.3	H	155	0
9748.000	45.28	-30.3	36.9	38.71	74.0	28.7	H	155	44
12185.000	47.36	-28.1	38.9	36.53	74.0	26.6	V	155	242

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)
2485.390	60.90	2.9	32.2	25.79	74.0	13.1	H	155	22
2488.885	60.65	2.9	32.2	25.53	74.0	13.4	H	155	22
4924.000	50.76	-33.5	34.2	50.11	74.0	23.2	H	155	88
7386.000	43.44	-31.5	35.8	39.12	74.0	30.6	V	155	110
9848.000	44.59	-30.2	37.0	37.75	74.0	29.4	V	155	44
12310.000	47.38	-27.8	39.0	36.17	74.0	26.6	H	155	0

802.11g - 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)
2389.600	46.97	2.9	32.0	12.09	54.0	7.0	H	155	16
2388.800	46.95	2.9	32.0	12.07	54.0	7.1	H	155	48
4824.000	36.86	-33.2	34.1	35.97	54.0	17.1	H	155	80
7236.000	33.95	-30.9	35.7	29.08	54.0	20.1	H	155	8
9648.000	33.34	-30.5	36.8	27.02	54.0	20.7	H	155	102
12060.000	36.49	-28.7	38.9	26.28	54.0	17.5	H	155	118

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)
2386.500	46.74	2.9	32.0	11.86	54.0	7.3	H	155	28
2485.000	47.22	2.9	32.2	12.11	54.0	6.8	H	155	46
4874.000	36.02	-33.3	34.2	35.17	54.0	18.0	H	155	8
7311.000	32.36	-30.8	35.8	27.41	54.0	21.6	H	155	6
9748.000	33.43	-30.3	36.9	26.86	54.0	20.6	H	155	24
12185.000	36.74	-28.1	38.9	25.91	54.0	17.3	H	155	185

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)
2483.500	47.68	2.9	32.2	12.58	54.0	6.3	H	155	4
2484.600	47.32	2.9	32.2	12.21	54.0	6.7	H	155	348
4923.500	35.77	-33.5	34.2	35.12	54.0	18.2	H	155	28
7386.000	32.46	-31.5	35.8	28.14	54.0	21.5	H	155	356
9848.000	33.60	-30.2	37.0	26.76	54.0	20.4	H	155	24
12310.000	37.11	-27.8	39.0	25.90	54.0	16.9	H	155	2

802.11g - Peak
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)
2376.570	60.55	2.9	32.0	25.70	74.0	13.4	H	155	22
2379.750	60.11	2.9	32.0	25.25	74.0	13.9	H	155	44
4824.000	49.65	-33.2	34.1	48.75	74.0	24.4	V	155	88
7236.000	43.85	-30.9	35.7	38.98	74.0	30.2	V	155	0
9648.000	44.51	-30.5	36.8	38.19	74.0	29.5	H	155	110
12060.000	47.07	-28.7	38.9	36.86	74.0	26.9	H	155	132

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)
2368.500	44.12	-35.3	32.0	47.48	74.0	29.9	H	155	22
2520.500	44.00	-34.8	32.2	46.55	74.0	30.0	H	155	44
4874.000	48.47	-33.3	34.2	47.62	74.0	25.5	V	155	0
7311.000	43.65	-30.8	35.8	38.70	74.0	30.4	H	155	0
9748.000	45.32	-30.3	36.9	38.75	74.0	28.7	V	155	22
12185.000	47.45	-28.1	38.9	36.61	74.0	26.6	H	155	176

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)
2483.590	61.34	2.9	32.2	26.23	74.0	12.7	H	155	0
2483.700	61.09	2.9	32.2	25.99	74.0	12.9	V	155	352
4923.500	47.18	-33.5	34.2	46.53	74.0	26.8	V	155	22
7386.000	43.65	-31.5	35.8	39.33	74.0	30.4	H	155	352
9848.000	44.48	-30.2	37.0	37.64	74.0	29.5	V	155	22
12310.000	47.59	-27.8	39.0	36.38	74.0	26.4	V	155	0

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)
2388.700	46.75	2.9	32.0	11.87	54.0	7.2	H	155	202
2389.800	47.02	2.9	32.0	12.13	54.0	7.0	H	155	225
4824.500	36.30	-33.2	34.1	35.41	54.0	17.7	H	155	174
7236.000	33.89	-30.9	35.7	29.02	54.0	20.1	H	155	4
9648.000	33.51	-30.5	36.8	27.19	54.0	20.5	H	155	172
12060.000	36.62	-28.7	38.9	26.41	54.0	17.4	H	155	194

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)
2387.500	46.53	2.9	32.0	11.65	54.0	7.5	H	155	28
2484.120	47.51	2.9	32.2	12.41	54.0	6.5	H	155	248
4874.500	35.77	-33.3	34.2	34.92	54.0	18.2	H	155	38
7311.000	32.45	-30.8	35.8	27.50	54.0	21.6	H	155	98
9748.000	33.54	-30.3	36.9	26.97	54.0	20.5	H	155	183
12185.000	36.68	-28.1	38.9	25.85	54.0	17.3	H	155	356

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)
2483.500	47.74	2.9	32.2	12.64	54.0	6.3	H	155	18
2482.900	47.58	2.9	32.2	12.48	54.0	6.4	H	155	56
4923.500	35.55	-33.5	34.2	34.91	54.0	18.4	H	155	139
7386.000	32.51	-31.5	35.8	28.19	54.0	21.5	H	155	108
9848.000	33.52	-30.2	37.0	26.68	54.0	20.5	H	155	78
12310.000	37.03	-27.8	39.0	25.82	54.0	17.0	H	155	36

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)
2378.990	60.58	2.9	32.0	25.72	74.0	13.4	H	155	198
2379.622	60.20	2.9	32.0	25.34	74.0	13.8	H	155	220
4824.000	47.87	-33.2	34.1	46.98	74.0	26.1	V	155	176
7236.000	43.68	-30.9	35.7	38.81	74.0	30.3	V	155	0
9648.000	44.39	-30.5	36.8	38.07	74.0	29.6	H	155	176
12060.000	47.14	-28.7	38.9	36.93	74.0	26.9	V	155	198

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)
2366.850	43.96	-35.3	32.0	47.32	74.0	30.0	H	155	22
2525.400	44.21	-34.7	32.2	46.72	74.0	29.8	H	155	242
4874.000	48.22	-33.3	34.2	47.36	74.0	25.8	V	155	44
7311.000	43.87	-30.8	35.8	38.92	74.0	30.1	H	155	88
9748.000	45.41	-30.3	36.9	38.84	74.0	28.6	V	155	176
12185.000	47.59	-28.1	38.9	36.76	74.0	26.4	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)
2483.580	61.66	2.9	32.2	26.55	74.0	12.3	H	155	22
2483.950	61.47	2.9	32.2	26.37	74.0	12.5	H	155	44
4923.500	47.10	-33.5	34.2	46.46	74.0	26.9	H	155	132
7386.000	43.76	-31.5	35.8	39.44	74.0	30.2	V	155	110
9848.000	44.52	-30.2	37.0	37.67	74.0	29.5	H	155	88
12310.000	47.68	-27.8	39.0	36.47	74.0	26.3	H	155	44

Test graphs as below:

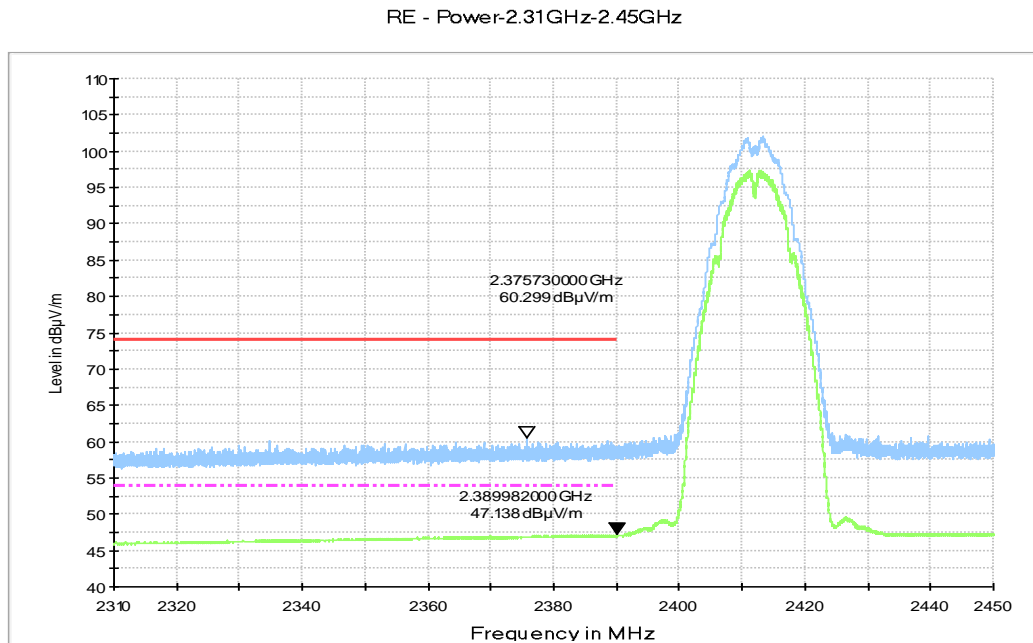


Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz

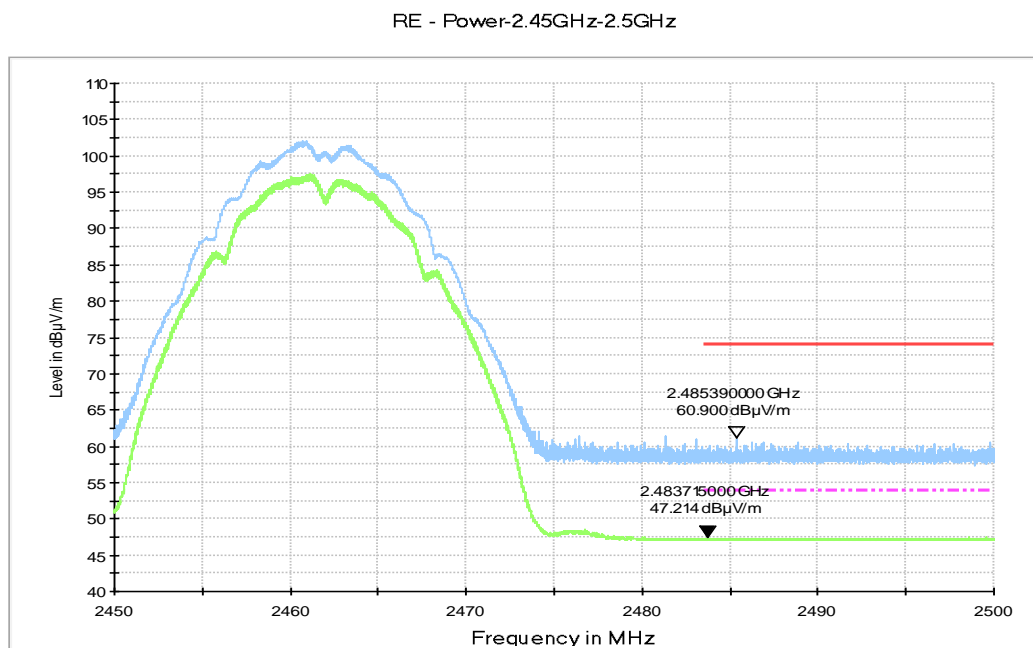


Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz

RE - Power-2.31GHz-2.45GHz

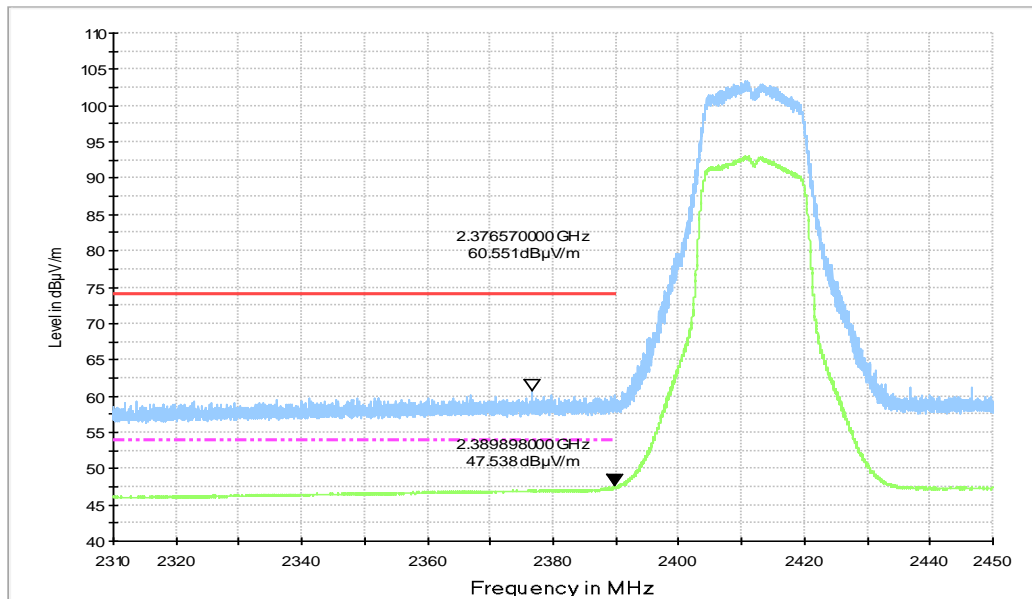


Fig.A.6.2.3 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch1, 2.31 GHz - 2.43GHz

RE - Power-2.45GHz-2.5GHz

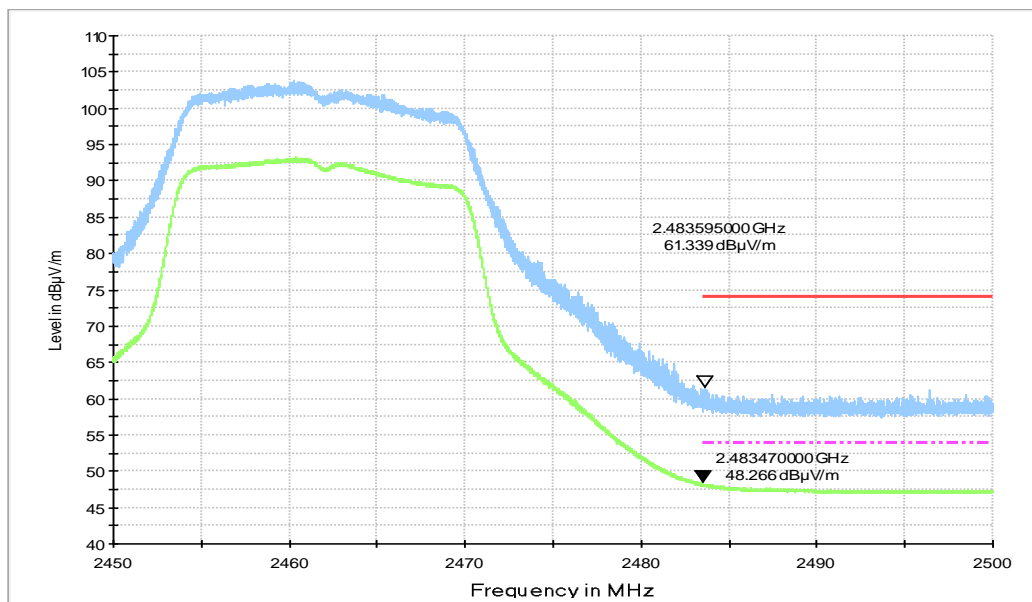


Fig.A.6.2.4 Transmitter Spurious Emission - Radiated (Power): 802.11g, ch11, 2.45 GHz - 2.50GHz

RE - Power-2.31GHz-2.45GHz

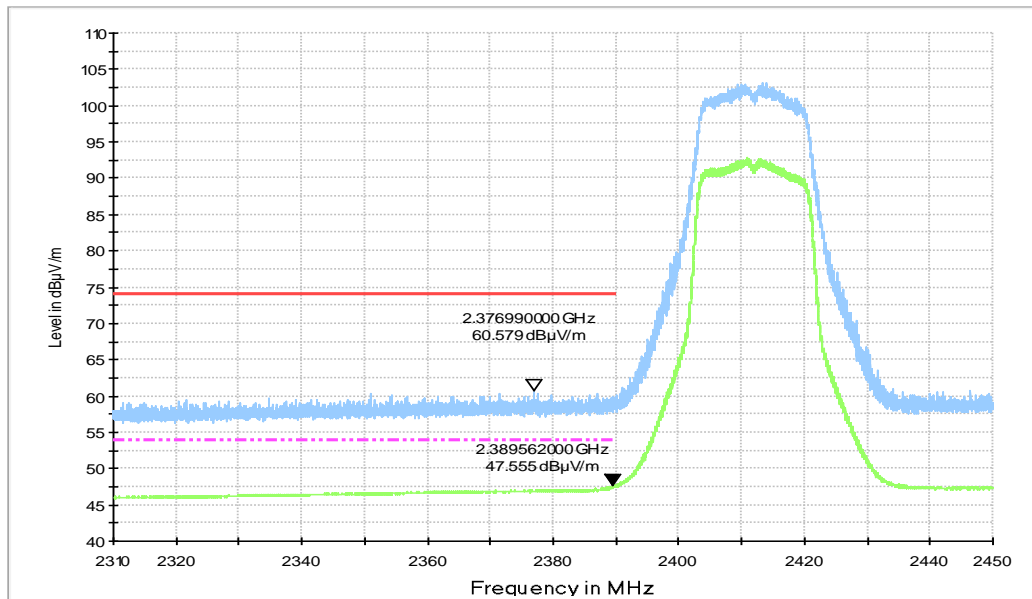


Fig.A.6.2.5 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch1, 2.31GHz - 2.45GHz

RE - Power-2.45GHz-2.5GHz

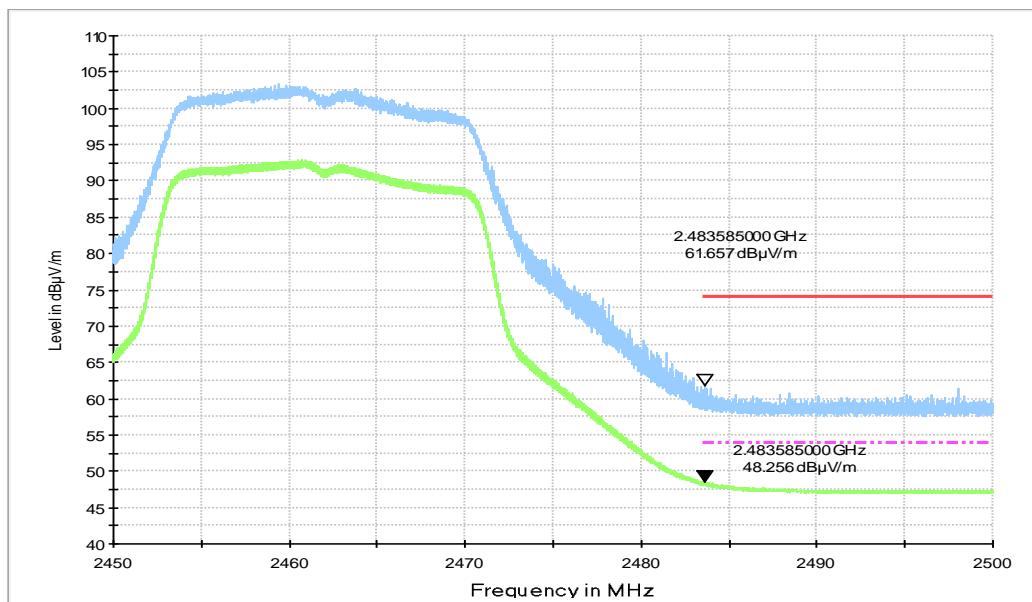


Fig.A.6.2.6 Transmitter Spurious Emission - Radiated (Power): 802.11n-HT20, ch11, 2.45 GHz - 2.50GHz

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:

Traffic:

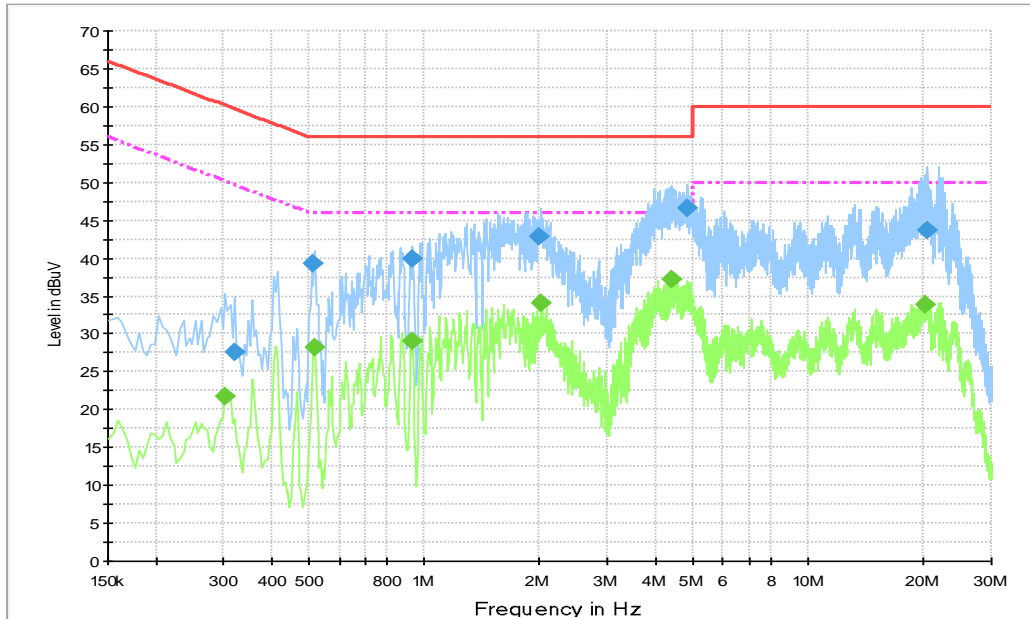


Fig.A.7.1 AC Powerline Conducted Emission-802.11b

Note1: 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 (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.321000	27.7	10000	9.000	L1	19.9	32.0	59.7
0.510000	39.2	10000	9.000	L1	20.0	16.8	56.0
0.933000	40.0	10000	9.000	L1	19.9	16.0	56.0
1.990500	42.8	10000	9.000	L1	19.8	13.2	56.0
4.866000	46.6	10000	9.000	L1	19.8	9.4	56.0
20.508000	43.8	10000	9.000	L1	20.0	16.2	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.303000	21.8	10000.	9.000	L1	20.0	28.4	50.2
0.519000	28.3	10000.	9.000	L1	20.0	17.7	46.0
0.933000	29.0	10000.	9.000	L1	19.9	17.0	46.0
2.022000	34.1	10000.	9.000	L1	19.8	11.9	46.0
4.407000	37.3	10000.	9.000	L1	19.8	8.7	46.0
20.098500	33.8	10000.	9.000	L1	20.0	16.2	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

Idle:

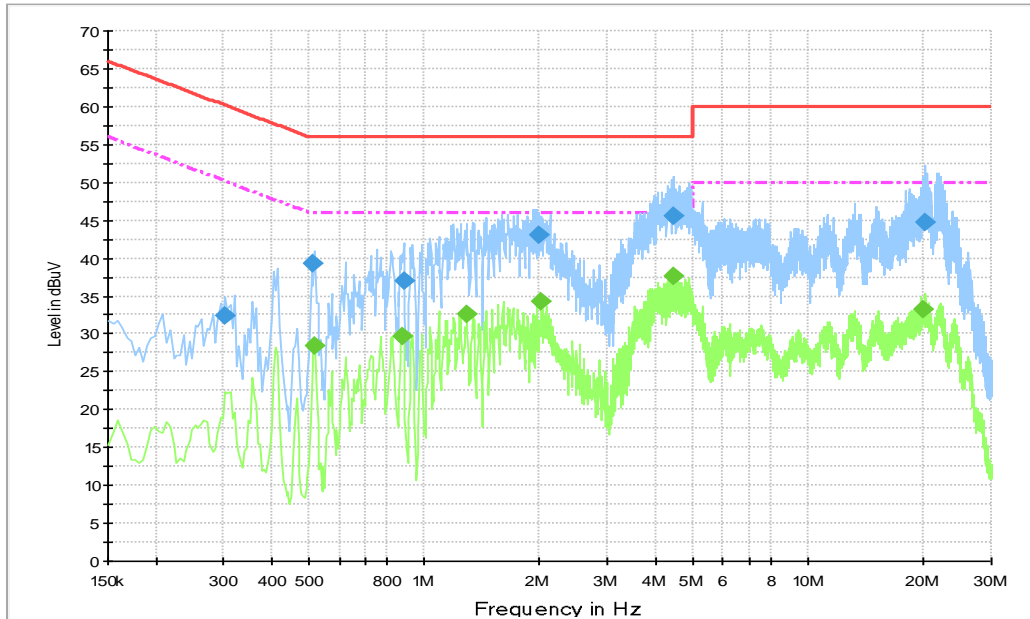


Fig.A.7.2 AC Powerline Conducted Emission-Idle

Note1: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.303000	32.5	10000	9.000	L1	20.0	27.7	60.2
0.510000	39.4	10000	9.000	L1	20.0	16.6	56.0
0.883500	37.1	10000	9.000	L1	19.8	18.9	56.0
1.990500	43.1	10000	9.000	L1	19.8	12.9	56.0
4.461000	45.6	10000	9.000	L1	19.8	10.4	56.0
20.265000	44.7	10000	9.000	L1	20.0	15.3	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.519000	28.4	10000.	9.000	L1	20.0	17.6	46.0
0.874500	29.7	10000.	9.000	L1	19.8	16.3	46.0
1.288500	32.6	10000.	9.000	L1	19.8	13.4	46.0
2.022000	34.2	10000.	9.000	L1	19.8	11.8	46.0
4.461000	37.7	10000.	9.000	L1	19.8	8.3	46.0
19.837500	33.3	10000.	9.000	L1	20.0	16.7	50.0

Note2: The measurement results showed here are worst cases of the combinations of different cables and chargers

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>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>	 <hr/> <p><i>[Signature]</i> For the National Voluntary Laboratory Accreditation Program</p>

END OF REPORT