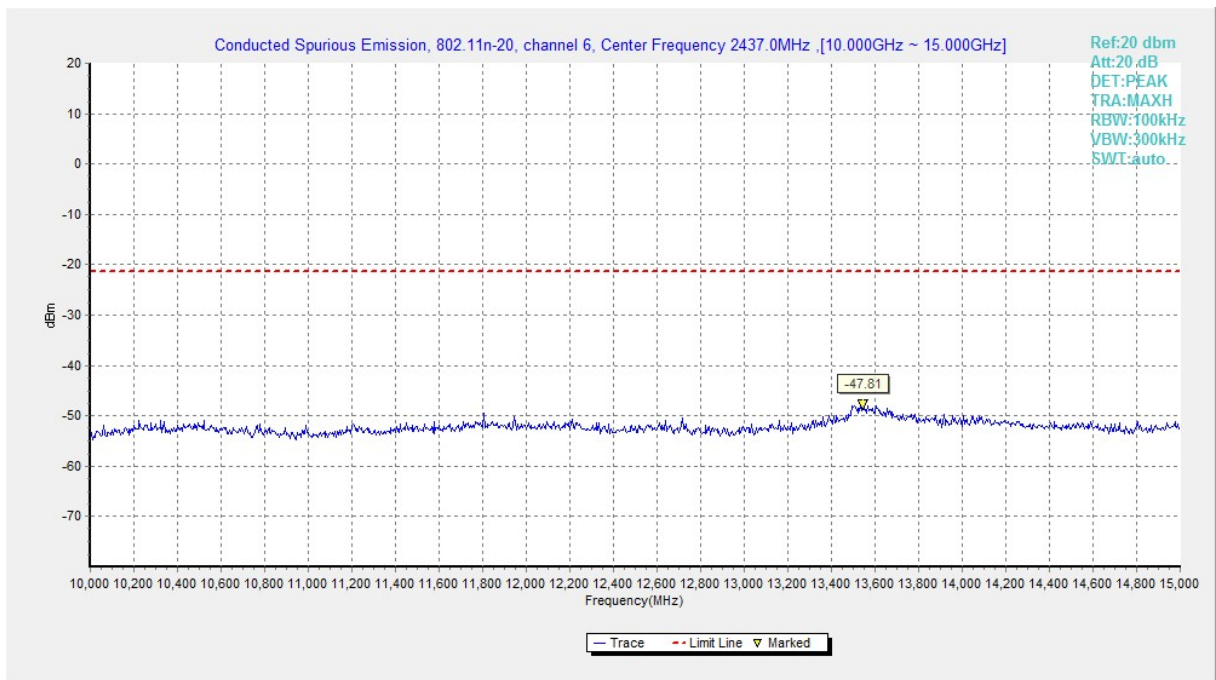
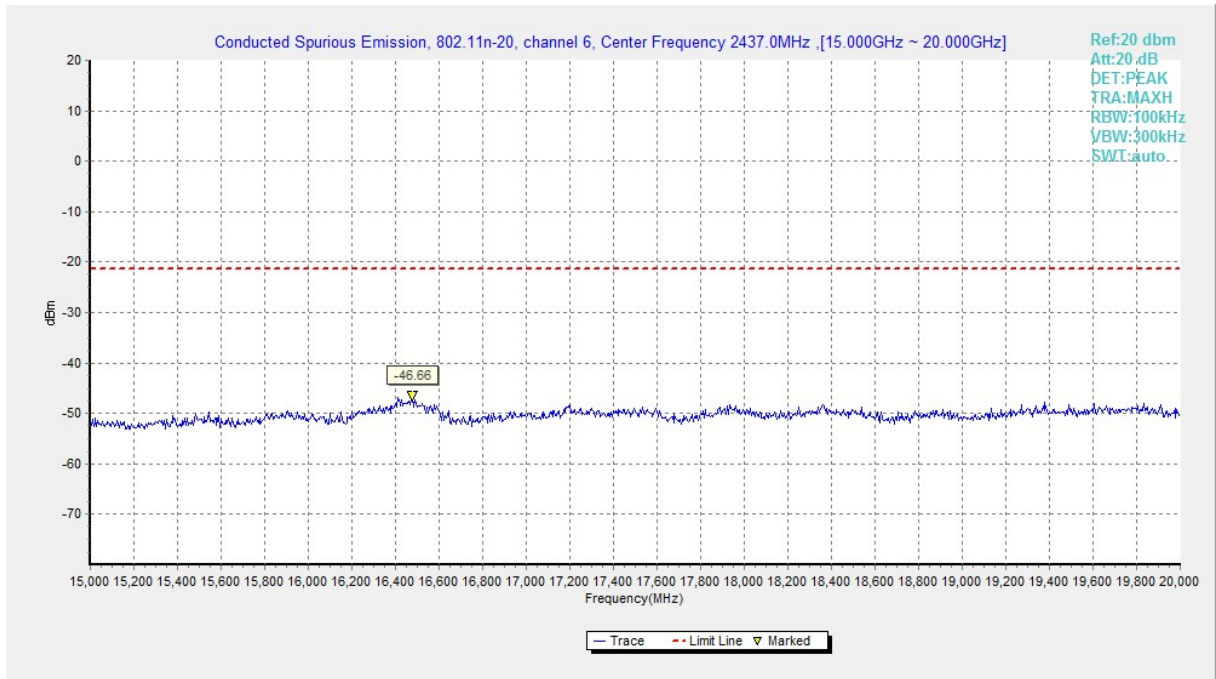


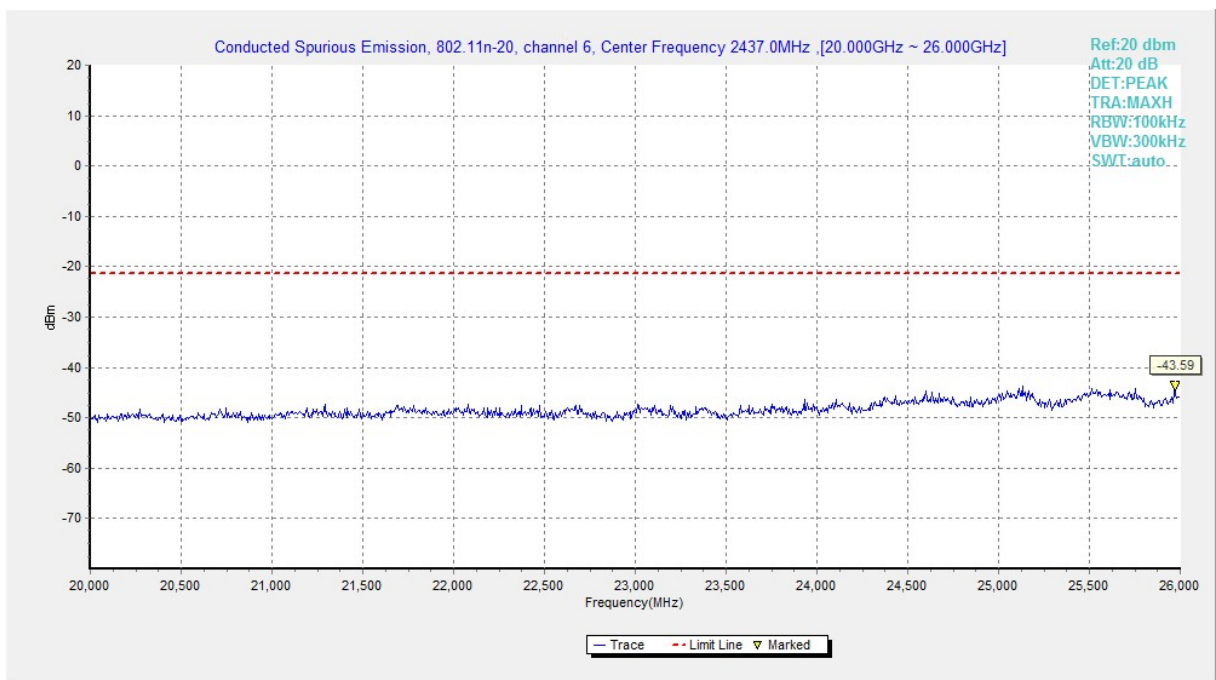
**Fig.A.6.1.61 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 7.5 GHz-10 GHz)**



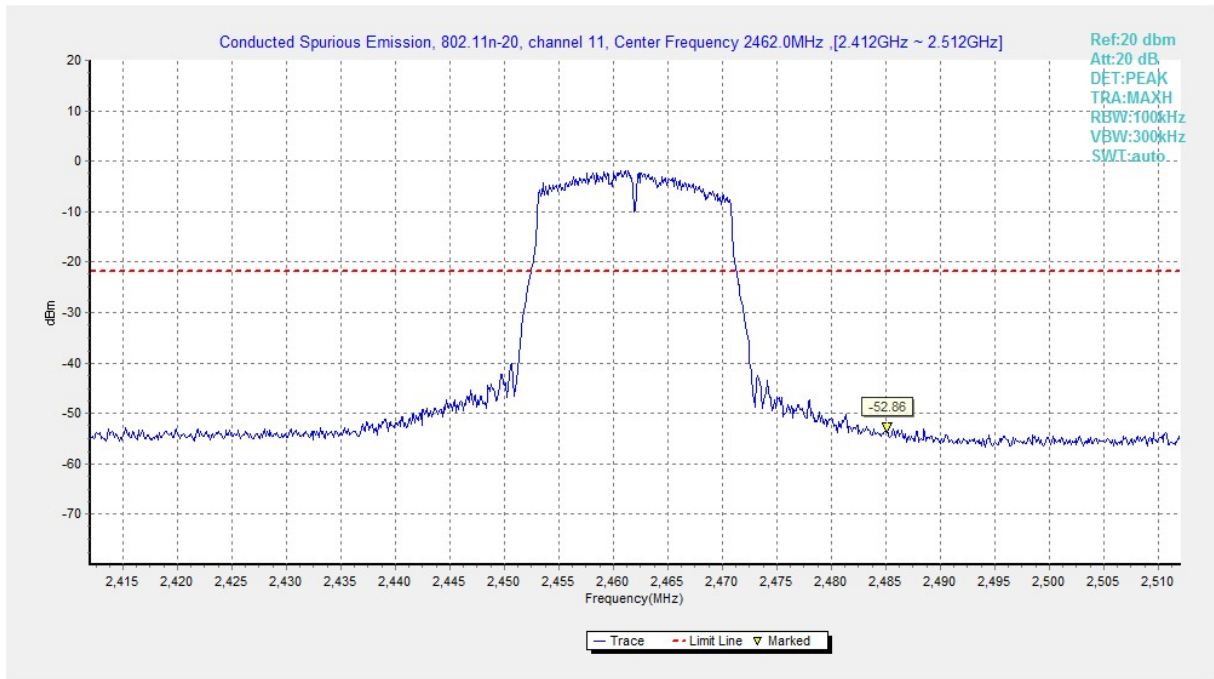
**Fig.A.6.1.62 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 10 GHz-15 GHz)**



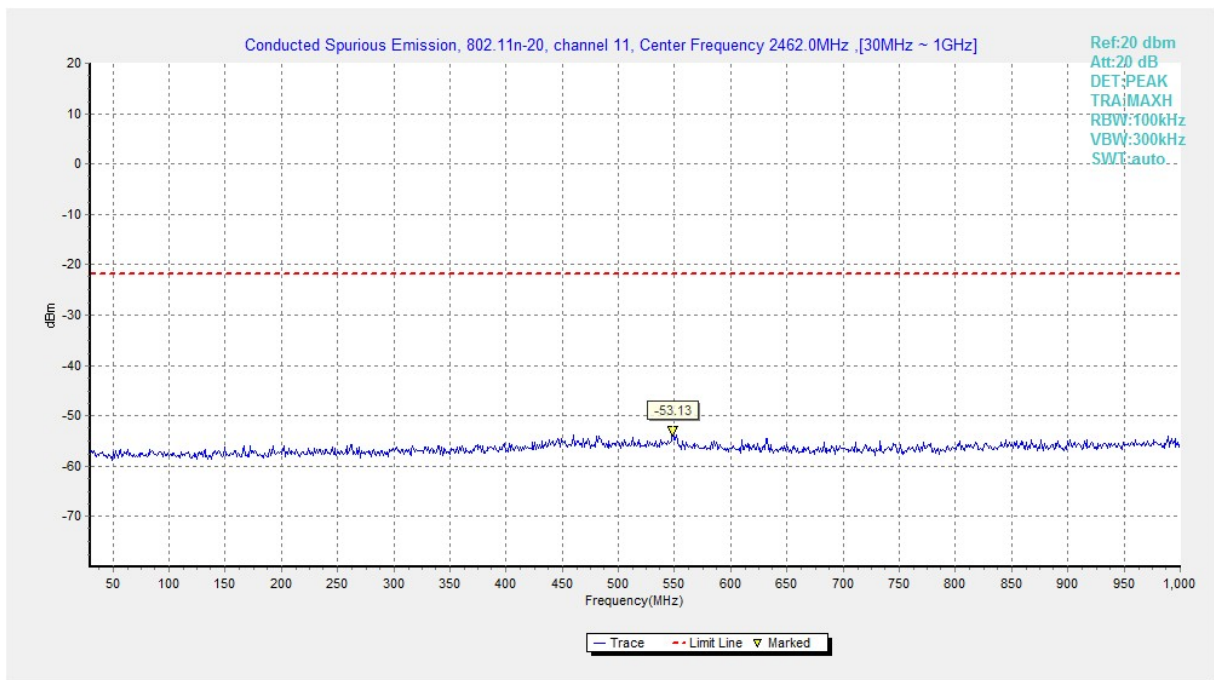
**Fig.A.6.1.63 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 15 GHz-20 GHz)**



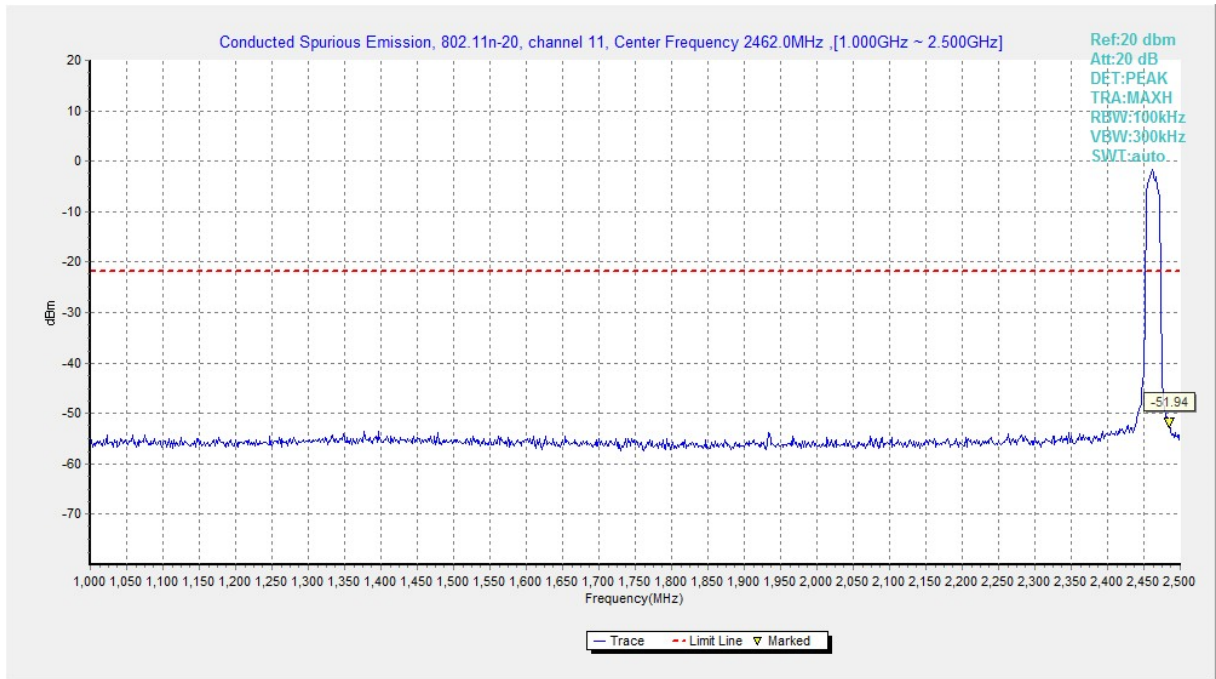
**Fig.A.6.1.64 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch6, 20 GHz-26 GHz)**



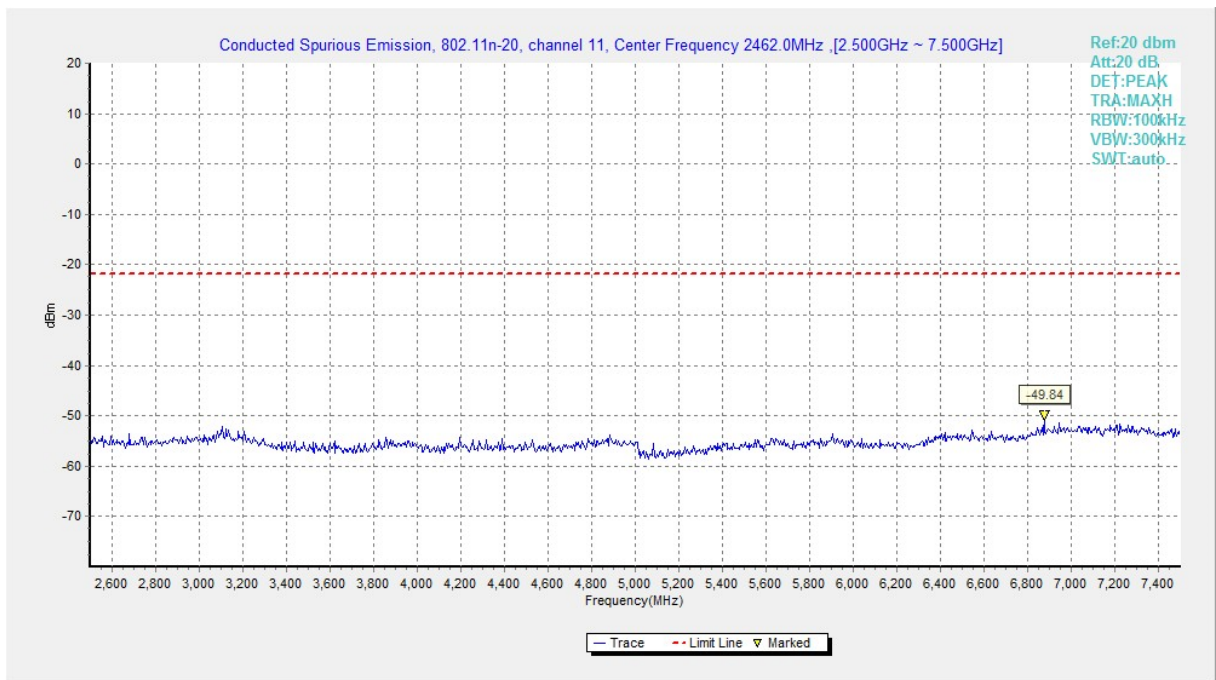
**Fig.A.6.1.65 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, Center Frequency)**



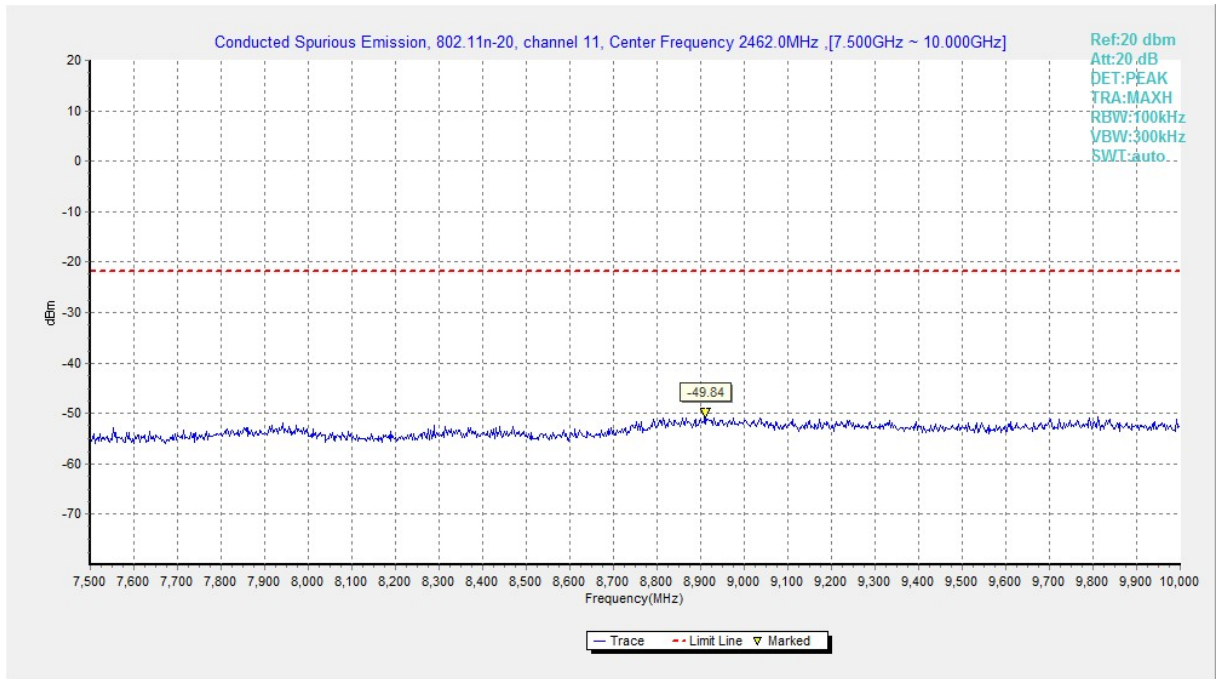
**Fig.A.6.1.66 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 30 MHz-1 GHz)**



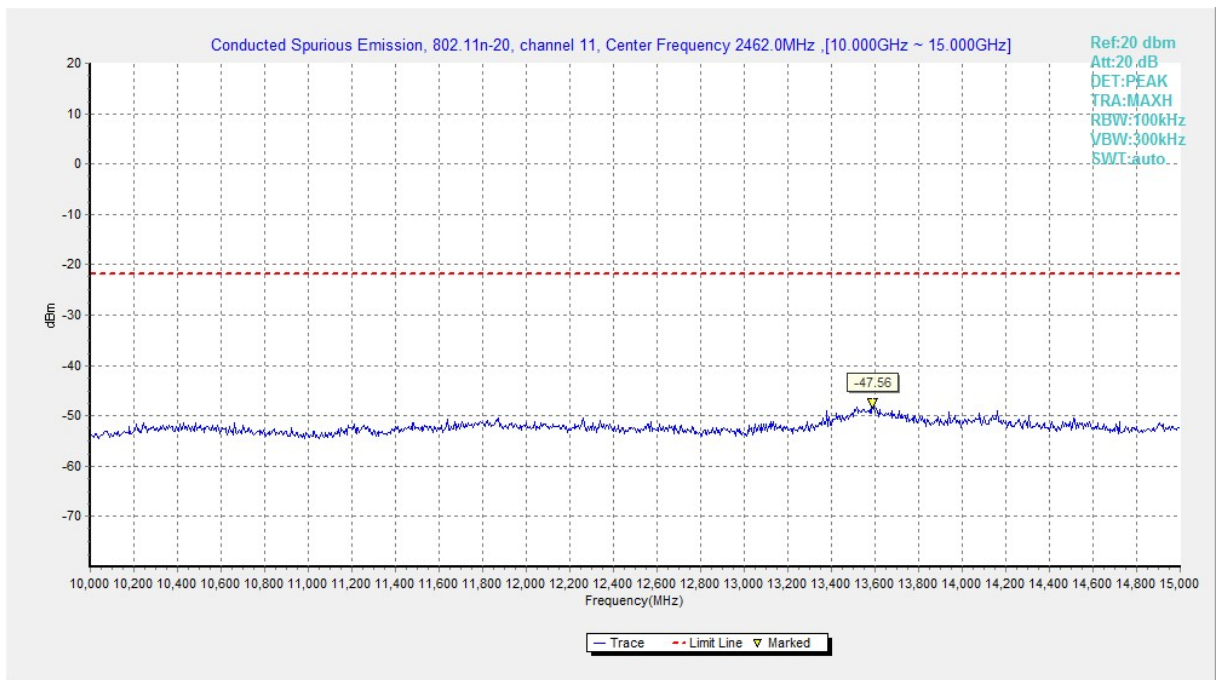
**Fig.A.6.1.67 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 1 GHz-2.5 GHz)**



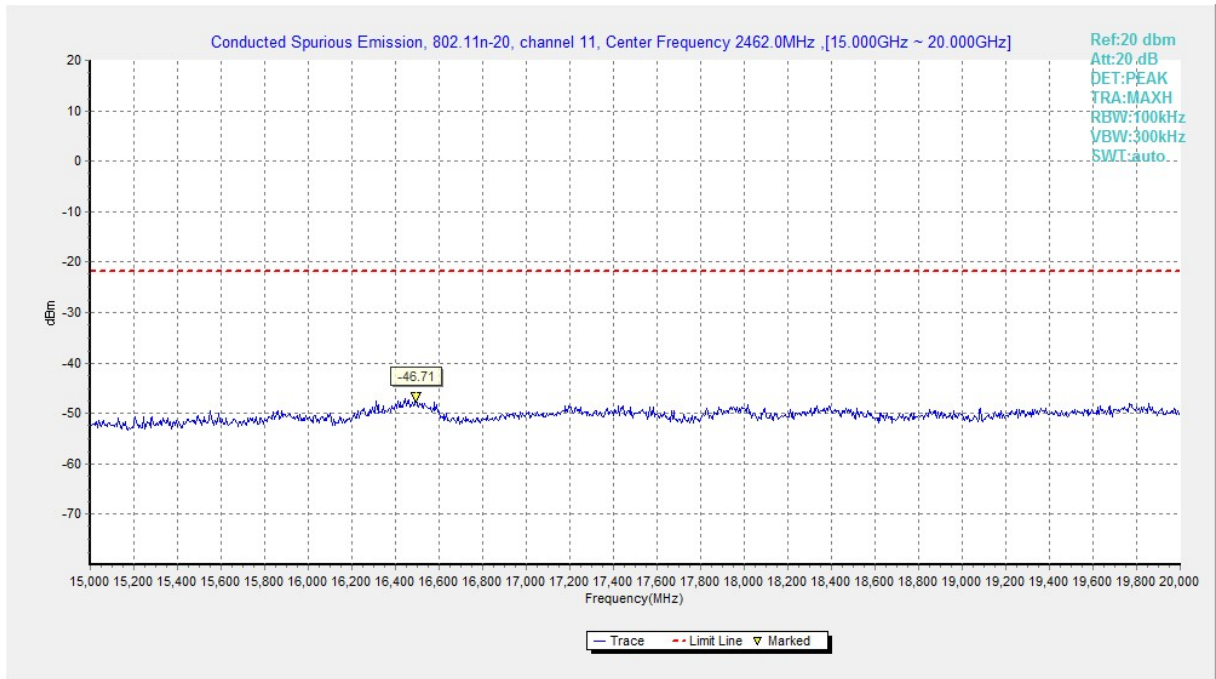
**Fig.A.6.1.68 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 2.5 GHz-7.5 GHz)**



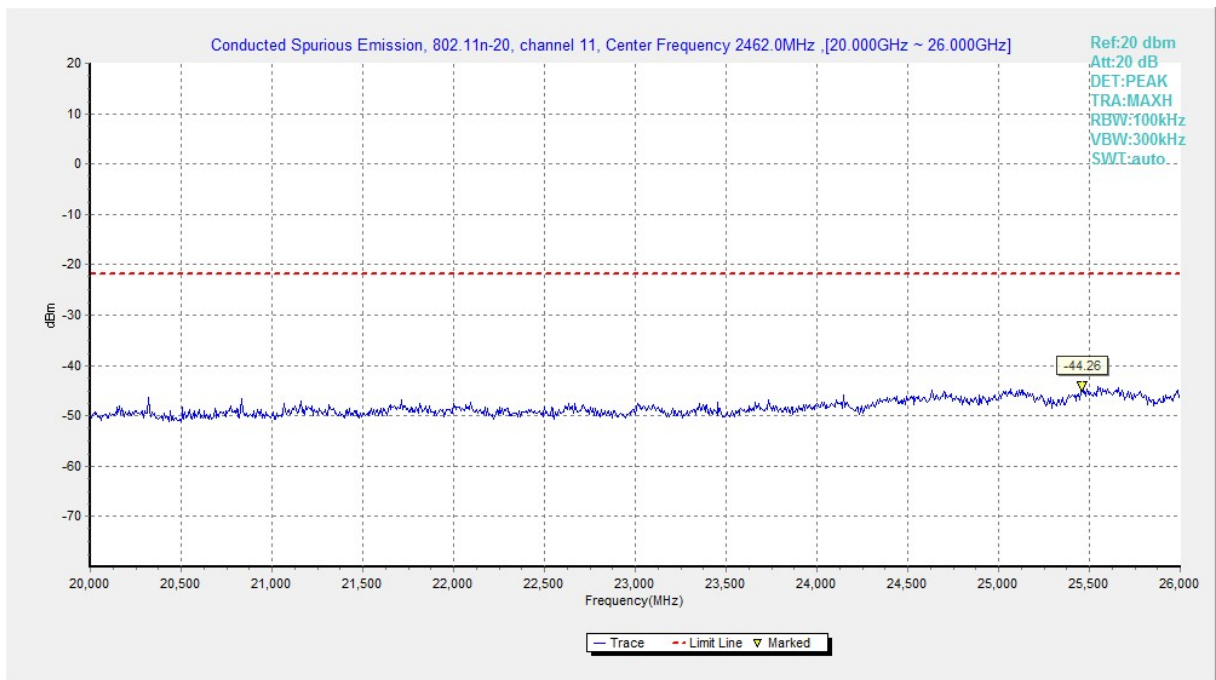
**Fig.A.6.1.69 Transmitter Spurious Emission - Conducted (802.11n-HT20, Ch11, 7.5 GHz-10 GHz)**



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

**EUT ID:** EUT1

**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	<b>P</b>
	Power(ch11)	2.45GHz ~2.5GHz	Fig.A.6.2.2	<b>P</b>

**802.11g mode**

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

**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	<b>P</b>
	Power(ch11)	2.45GHz ~2.5GHz	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:

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



**802.11b-Average**
**Ch1**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.300	46.49	2.9	32.0	11.61	54.0	7.5	H	155	25
2389.500	46.49	2.9	32.0	11.61	54.0	7.5	H	155	49
4824.000	32.61	-33.2	34.1	31.72	54.0	21.4	H	155	4
7236.000	32.54	-30.9	35.7	27.68	54.0	21.5	H	155	6
9648.000	33.44	-30.5	36.8	27.11	54.0	20.6	H	155	25
12060.000	36.67	-28.7	38.9	26.46	54.0	17.3	H	155	186

**Ch6**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2417.900	47.87	2.9	32.1	12.92	54.0	6.1	H	155	4
2456.900	47.54	2.9	32.1	12.50	54.0	6.5	H	155	2
4873.500	31.36	-33.3	34.2	30.50	54.0	22.6	H	155	25
7311.000	32.28	-30.8	35.8	27.33	54.0	21.7	H	155	350
9748.500	33.55	-30.3	36.9	26.98	54.0	20.5	H	155	92
12184.500	37.14	-28.1	38.9	26.31	54.0	16.9	H	155	85

**Ch11**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	46.59	2.9	32.2	11.49	54.0	7.4	H	155	20
2483.700	46.63	2.9	32.2	11.52	54.0	7.4	H	155	45
4924.000	30.88	-33.5	34.2	30.24	54.0	23.1	H	155	240
7386.000	31.68	-31.5	35.8	27.35	54.0	22.3	H	155	180
9847.500	33.74	-30.2	37.0	26.90	54.0	20.3	H	155	85
12310.500	37.22	-27.8	39.0	26.00	54.0	16.8	H	155	25

**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)
2372.692	60.67	2.9	32.0	25.82	74.0	13.3	H	155	22
2388.470	60.45	2.9	32.0	25.57	74.0	13.6	V	155	44
4824.000	42.54	-33.2	34.1	41.65	74.0	31.5	H	155	0
7236.000	44.42	-30.9	35.7	39.55	74.0	29.6	H	155	0
7648.000	45.76	-30.5	35.8	40.42	74.0	28.2	H	155	22
12060.000	46.72	-28.7	38.9	36.51	74.0	27.3	H	155	176

**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)
2366.000	44.53	-35.3	32.0	47.89	74.0	29.5	H	155	0
2511.800	44.45	-34.9	32.2	47.13	74.0	29.6	H	155	0
4874.000	41.51	-33.3	34.2	40.65	74.0	32.5	V	155	22
7311.000	42.98	-30.8	35.8	38.03	74.0	31.0	V	155	352
9748.000	43.36	-30.3	36.9	36.79	74.0	30.6	V	155	88
12185.000	46.51	-28.1	38.9	35.68	74.0	27.5	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)
2485.635	60.56	2.9	32.2	25.45	74.0	13.4	H	155	22
2496.330	60.80	2.9	32.2	25.66	74.0	13.2	H	155	44
4924.000	40.84	-33.5	34.2	40.19	74.0	33.2	H	155	242
7386.000	42.79	-31.5	35.8	38.47	74.0	31.2	H	155	176
9848.000	43.57	-30.2	37.0	36.73	74.0	30.4	H	155	88
12310.000	45.18	-27.8	39.0	33.97	74.0	28.8	V	155	22

**802.11g - Average**
**Ch1**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.800	46.67	2.9	32.0	11.79	54.0	7.3	H	155	175
2390.000	46.74	2.9	32.0	11.86	54.0	7.3	H	155	5
4824.000	30.37	-33.2	34.1	29.48	54.0	23.6	H	155	26
7236.000	32.53	-30.9	35.7	27.67	54.0	21.5	H	155	355
9648.000	33.45	-30.5	36.8	27.13	54.0	20.5	H	155	6
12060.000	36.65	-28.7	38.9	26.44	54.0	17.3	H	155	12

**Ch6**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2412.400	47.90	2.9	32.1	12.96	54.0	6.1	H	155	20
2464.000	47.24	2.9	32.1	12.18	54.0	6.8	H	155	248
4873.500	30.11	-33.3	34.2	29.26	54.0	23.9	H	155	49
7311.000	32.28	-30.8	35.8	27.33	54.0	21.7	H	155	335
9748.500	33.58	-30.3	36.9	27.01	54.0	20.4	H	155	180
12184.500	37.17	-28.1	38.9	26.34	54.0	16.8	H	155	8

**Ch11**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	47.18	2.9	32.2	12.07	54.0	6.8	H	155	135
2483.600	47.21	2.9	32.2	12.10	54.0	6.8	H	155	160
4924.500	30.19	-33.5	34.2	29.55	54.0	23.8	H	155	92
7386.000	31.70	-31.5	35.8	27.37	54.0	22.3	H	155	115
9847.500	33.76	-30.2	37.0	26.92	54.0	20.2	H	155	112
12310.500	37.21	-27.8	39.0	26.00	54.0	16.8	H	155	85

**802.11g - Peak**

## Ch1

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2323.356	60.13	2.8	31.9	25.41	74.0	13.9	H	155	176
2387.896	60.24	2.9	32.0	25.36	74.0	13.8	H	155	0
4824.000	40.41	-33.2	34.1	39.51	74.0	33.6	V	155	22
7236.000	42.07	-30.9	35.7	37.20	74.0	31.9	V	155	352
9648.000	43.99	-30.5	36.8	37.67	74.0	30.0	V	155	0
12060.000	46.29	-28.7	38.9	36.08	74.0	27.7	V	155	0

## Ch6

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2364.400	44.52	-35.3	32.0	47.88	74.0	29.5	H	155	22
2504.800	44.89	-35.0	32.2	47.70	74.0	29.1	H	155	242
4874.000	41.36	-33.3	34.2	40.51	74.0	32.6	V	155	44
7311.000	42.05	-30.8	35.8	37.10	74.0	32.0	H	155	330
9748.000	42.76	-30.3	36.9	36.19	74.0	31.2	H	155	176
12185.000	46.92	-28.1	38.9	36.09	74.0	27.1	H	155	0

## Ch11

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.585	62.99	2.9	32.2	34.74	74.0	11.0	H	155	132
2483.870	61.65	2.9	32.2	34.71	74.0	12.4	H	155	154
4924.000	41.24	-33.5	34.2	26.69	74.0	32.8	V	155	88
7386.000	41.93	-31.5	35.8	26.46	74.0	32.1	H	155	110
9848.000	45.25	-30.2	37.0	26.85	74.0	28.8	V	155	110
12310.000	46.04	-27.8	39.0	26.67	74.0	28.0	V	155	88

**802.11n-HT20-Average**
**Ch1**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2389.000	46.60	2.9	32.0	11.72	54.0	7.4	H	155	5
2390.000	46.63	2.9	32.0	11.75	54.0	7.4	H	155	25
4824.000	30.21	-33.2	34.1	29.32	54.0	23.8	H	155	356
7236.000	32.50	-30.9	35.7	27.63	54.0	21.5	H	155	350
9648.000	33.48	-30.5	36.8	27.16	54.0	20.5	H	155	185
12060.000	36.62	-28.7	38.9	26.41	54.0	17.4	H	155	187

**Ch6**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2411.800	47.29	2.9	32.1	12.35	54.0	6.7	H	155	86
2464.700	47.13	2.9	32.1	12.06	54.0	6.9	H	155	107
4873.500	30.07	-33.3	34.2	29.22	54.0	23.9	H	155	130
7311.000	32.30	-30.8	35.8	27.35	54.0	21.7	H	155	152
9748.500	33.53	-30.3	36.9	26.96	54.0	20.5	H	155	174
12184.500	37.10	-28.1	38.9	26.27	54.0	16.9	H	155	195

**Ch11**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB $\mu$ V)	Limit (dB $\mu$ V/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2483.500	46.74	2.9	32.2	11.63	54.0	7.3	H	155	175
2484.000	46.76	2.9	32.2	11.65	54.0	7.2	H	155	194
4924.500	30.17	-33.5	34.2	29.53	54.0	23.8	H	155	215
7386.000	31.66	-31.5	35.8	27.34	54.0	22.3	H	155	196
9847.500	33.73	-30.2	37.0	26.89	54.0	20.3	H	155	241
12310.500	37.22	-27.8	39.0	26.01	54.0	16.8	H	155	259

**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)
2370.060	60.29	2.9	32.0	25.45	74.0	13.7	H	155	0
2389.800	60.42	2.9	32.0	25.53	74.0	13.6	H	155	22
4824.000	42.20	-33.2	34.1	41.31	74.0	31.8	H	155	352
7236.000	42.78	-30.9	35.7	37.91	74.0	31.2	V	155	352
9648.000	44.08	-30.5	36.8	37.76	74.0	29.9	V	155	176
12060.000	46.99	-28.7	38.9	36.78	74.0	27.0	V	155	176

**Ch6**

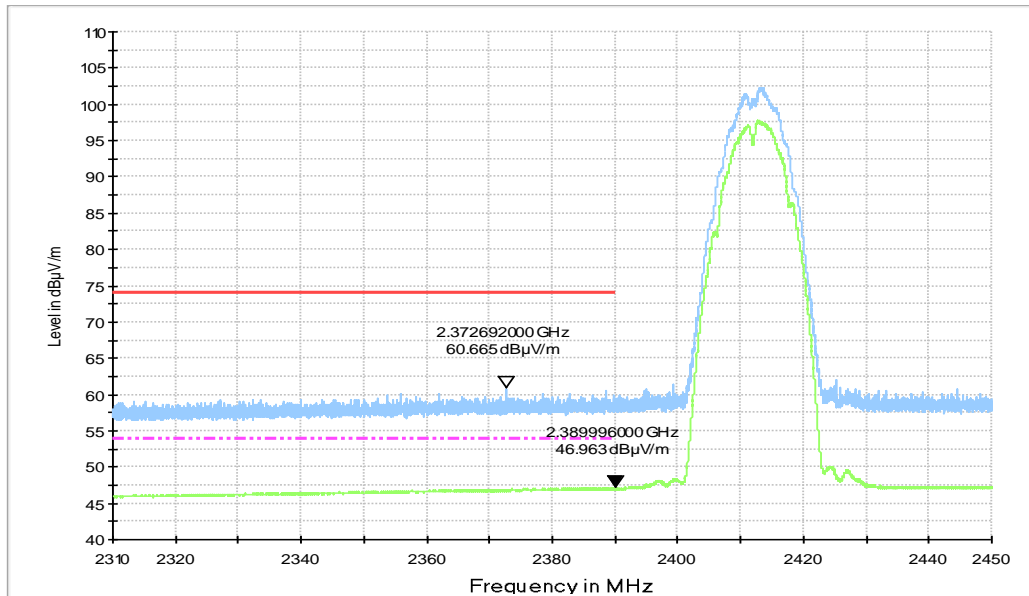
Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)	Antenna Height (cm)	Turntable angle (deg)
2368.400	44.84	-35.3	32.0	48.20	74.0	29.2	V	155	88
2510.400	44.79	-34.9	32.2	47.50	74.0	29.2	H	155	110
4874.000	40.28	-33.3	34.2	39.43	74.0	33.7	V	155	132
7311.000	41.62	-30.8	35.8	36.67	74.0	32.4	H	155	154
9748.000	43.73	-30.3	36.9	37.16	74.0	30.3	V	155	176
12185.000	46.91	-28.1	38.9	36.07	74.0	27.1	V	155	198

**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)
2484.625	61.02	2.9	32.2	25.91	74.0	13.0	V	155	176
2494.115	61.33	2.9	32.2	26.20	74.0	12.7	H	155	198
4924.000	41.02	-33.5	34.2	40.38	74.0	33.0	V	155	220
7386.000	40.97	-31.5	35.8	36.65	74.0	33.0	H	155	198
9848.000	44.44	-30.2	37.0	37.59	74.0	29.6	H	155	242
12310.000	46.78	-27.8	39.0	35.57	74.0	27.2	V	155	264

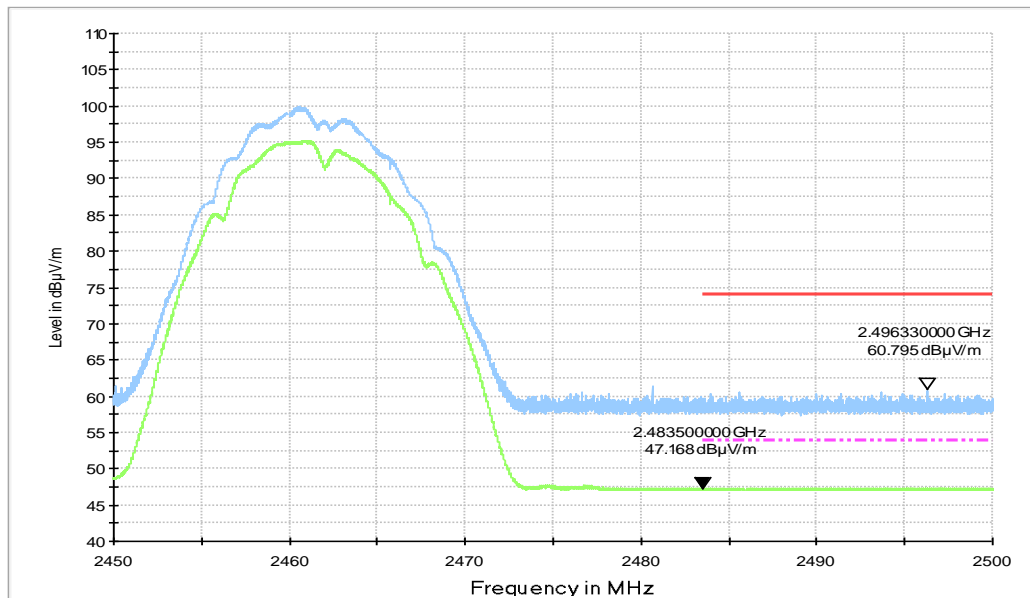
Test graphs as below:

RE - Power-2.31GHz-2.45GHz



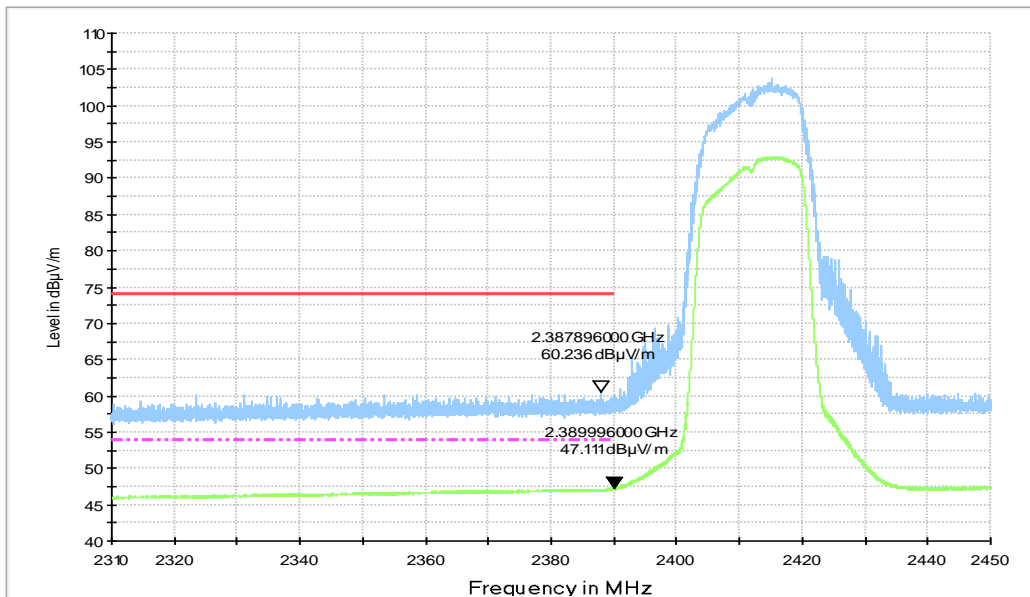
**Fig.A.6.2.1 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch1, 2.31 GHz – 2.45GHz**

RE - Power-2.45GHz-2.5GHz



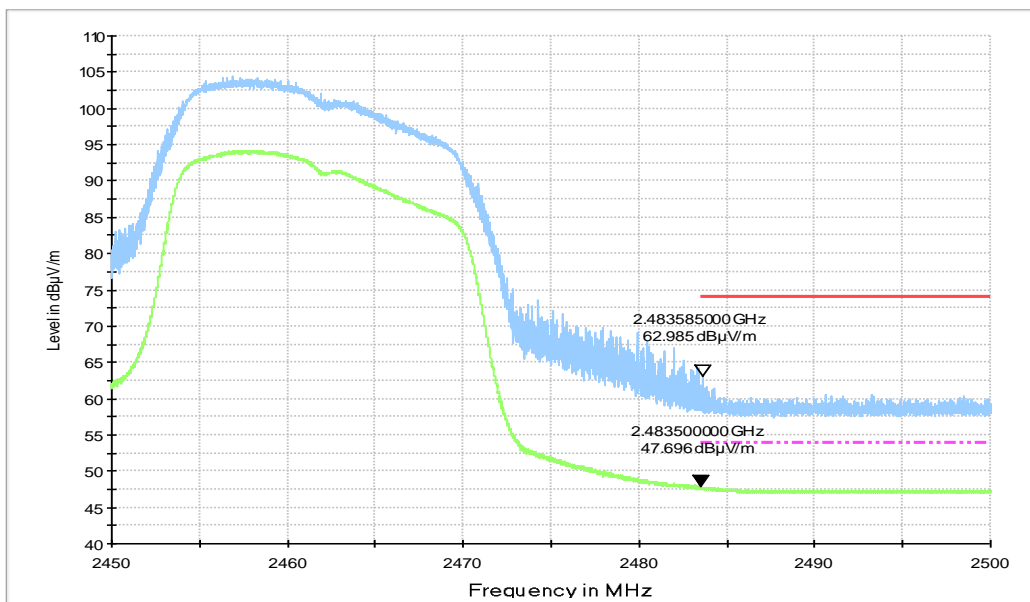
**Fig.A.6.2.2 Transmitter Spurious Emission - Radiated (Power): 802.11b, ch11, 2.45 GHz - 2.50GHz**

RE - Power-2.31GHz-2.45GHz



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

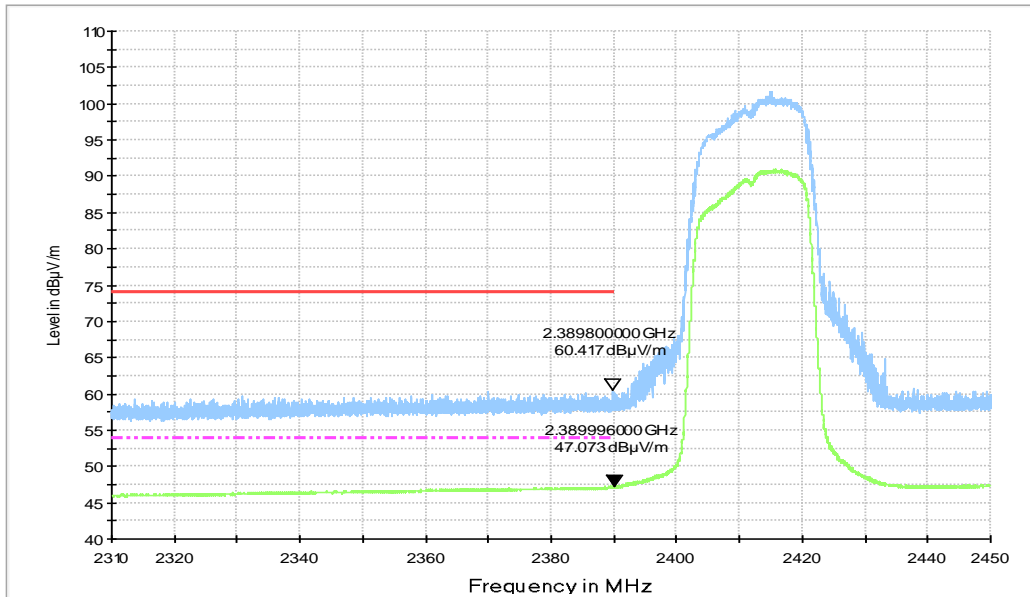
RE - Power-2.45GHz-2.5GHz



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

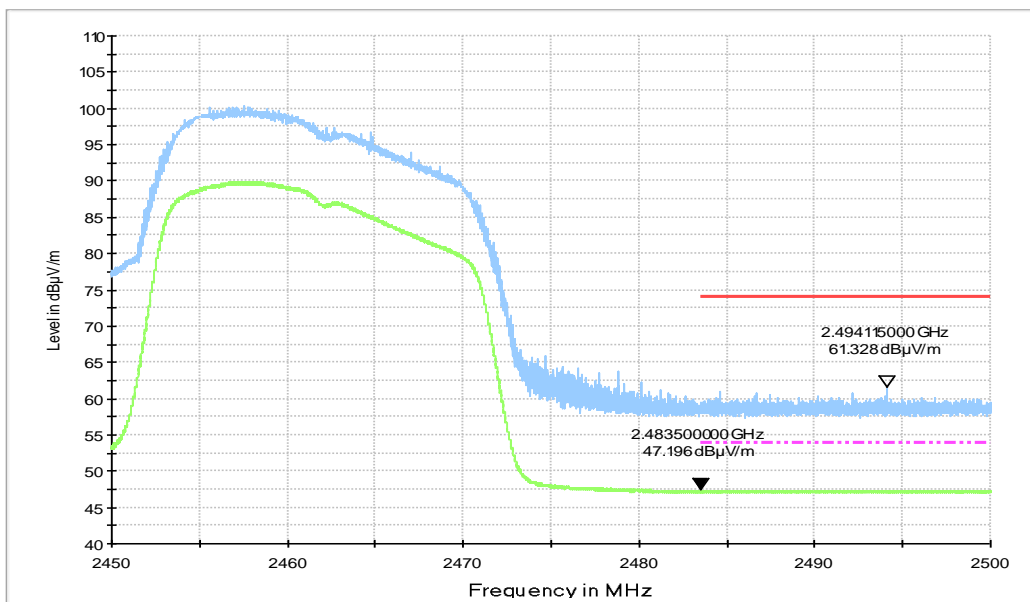


RE - Power-2.31GHz-2.45GHz



**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.<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.

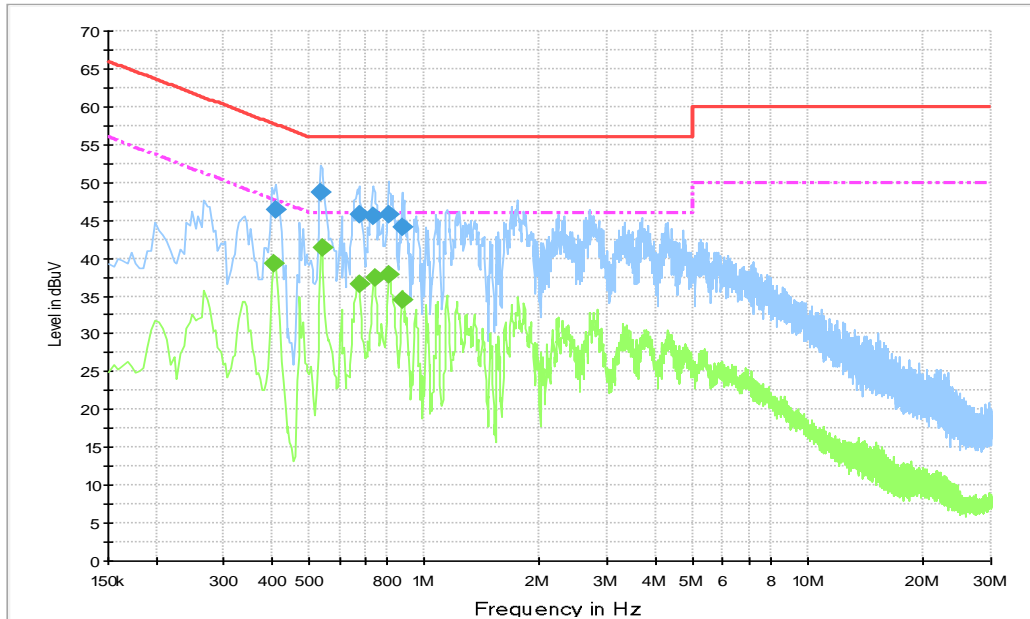
## WLAN (Average Limit)

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:**

**Traffic:**



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

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

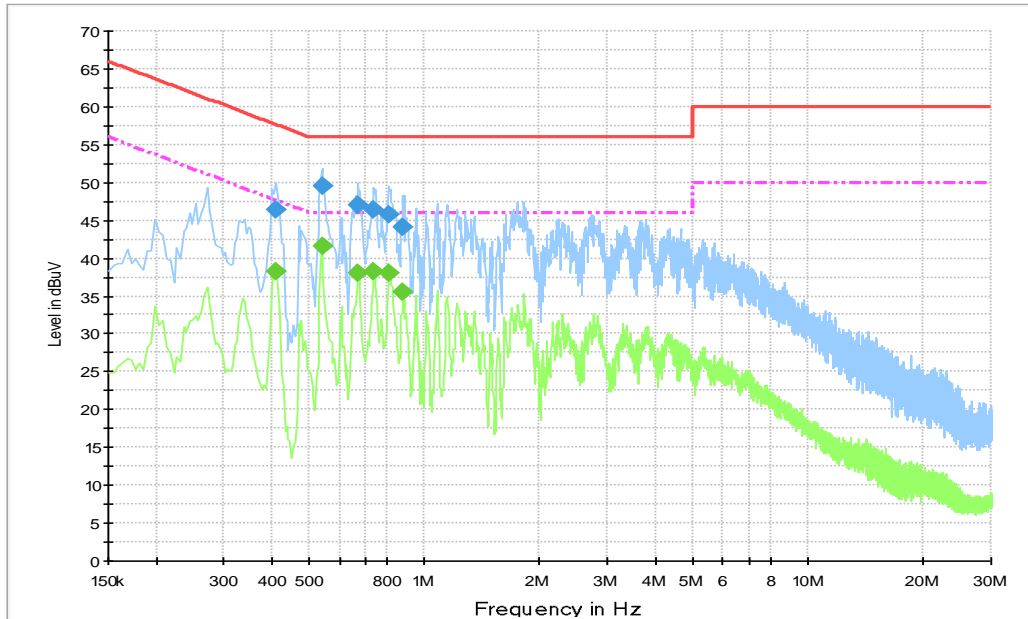
**Final Result 1**

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.411000	46.4	10000	9.000	L1	20.0	11.2	57.6
0.537000	48.8	10000	9.000	L1	20.0	7.2	56.0
0.676500	45.8	10000	9.000	L1	19.9	10.2	56.0
0.735000	45.6	10000	9.000	L1	19.9	10.4	56.0
0.807000	45.8	10000	9.000	L1	19.9	10.2	56.0
0.874500	44.1	10000	9.000	L1	19.8	11.9	56.0

**Final Result 2**

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.406500	39.2	10000.	9.000	L1	20.0	8.5	47.7
0.541500	41.4	10000.	9.000	L1	20.0	4.6	46.0
0.676500	36.6	10000.	9.000	L1	19.9	9.4	46.0
0.744000	37.4	10000.	9.000	L1	19.9	8.6	46.0
0.811500	37.8	10000.	9.000	L1	19.9	8.2	46.0
0.874500	34.4	10000.	9.000	L1	19.8	11.6	46.0

Idle:



**Fig.A.7.2 AC Powerline Conducted Emission-Idle**

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

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	46.4	10000	9.000	L1	20.0	11.2	57.6
0.541500	49.5	10000	9.000	L1	20.0	6.5	56.0
0.672000	46.9	10000	9.000	L1	19.9	9.1	56.0
0.739500	46.4	10000	9.000	L1	19.9	9.6	56.0
0.807000	45.7	10000	9.000	L1	19.9	10.3	56.0
0.879000	44.2	10000	9.000	L1	19.8	11.8	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.411000	38.3	10000.	9.000	L1	20.0	9.4	47.6
0.541500	41.5	10000.	9.000	L1	20.0	4.5	46.0
0.672000	38.0	10000.	9.000	L1	19.9	8.0	46.0
0.739500	38.1	10000.	9.000	L1	19.9	7.9	46.0
0.811500	38.0	10000.	9.000	L1	19.9	8.0	46.0
0.879000	35.4	10000.	9.000	L1	19.8	10.6	46.0

## ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p> 	
<hr/> <p><b>Certificate of Accreditation to ISO/IEC 17025:2005</b></p> <hr/>	
<p>NVLAP LAB CODE: 600118-0</p>	
<p><b>Telecommunication Technology Labs, CAICT</b> 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><b>Electromagnetic Compatibility &amp; Telecommunications</b></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\*\*\*