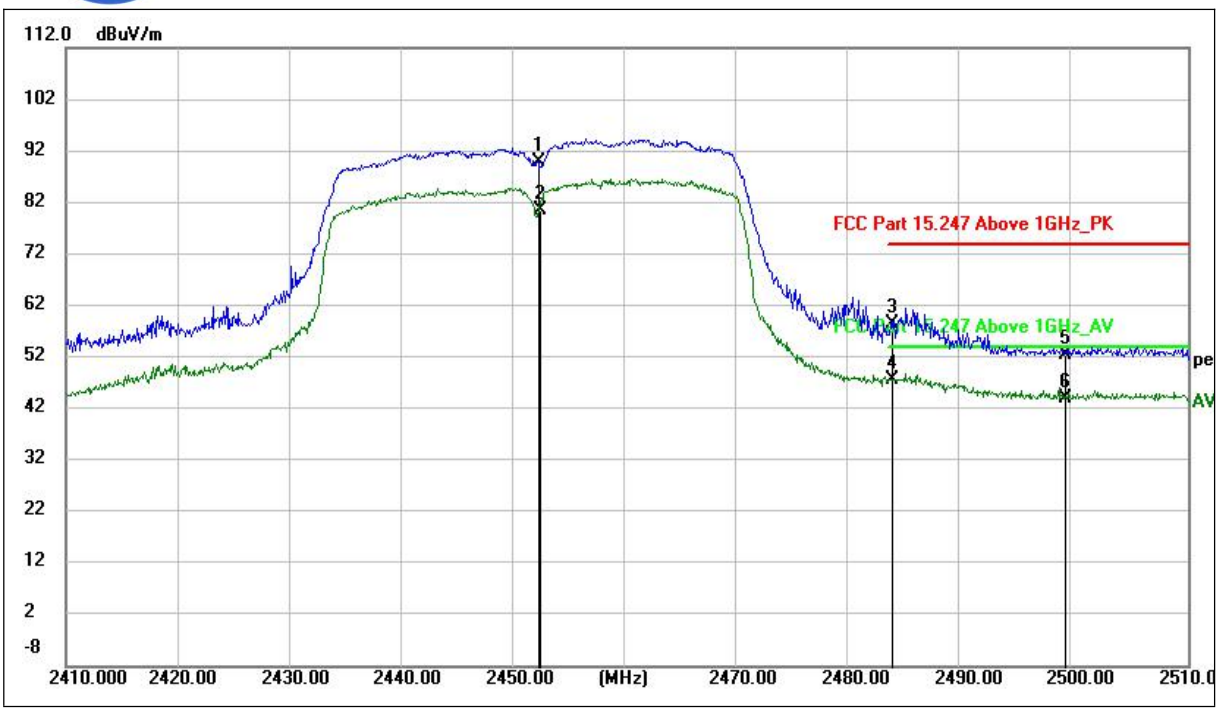


(802.11n_40M _2452MHz, Antenna Vertical)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
2452.105	48.71	41.10	89.81	N/A	N/A	peak	N/A
2452.270	39.39	41.11	80.50	N/A	N/A	AVG	N/A
2483.620	16.66	41.77	58.43	74.00	-15.57	peak	PASS
2483.690	5.81	41.76	47.57	54.00	-6.43	AVG	PASS
2499.005	10.88	41.47	52.35	74.00	-21.65	peak	PASS
2499.005	2.62	41.47	44.09	54.00	-9.91	AVG	PASS

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

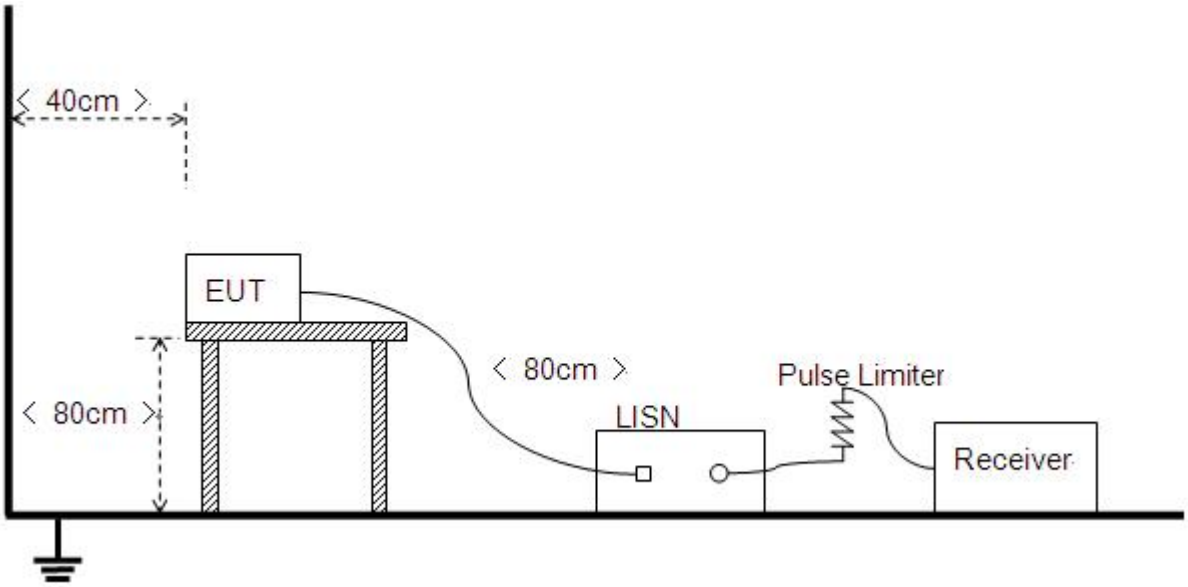
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

C. Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.

D. Equipments List:

Please refer ANNEX B(4).

2.7.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

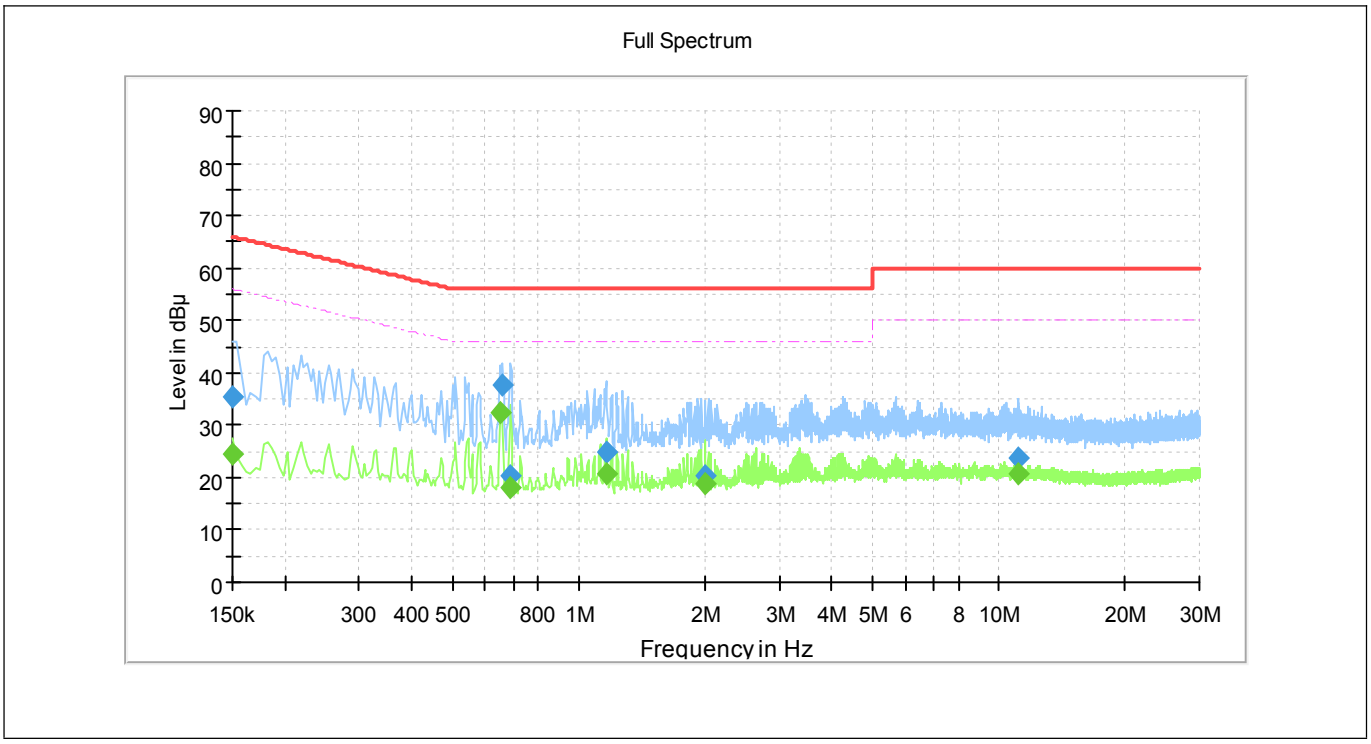
Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A. Test setup:

The EUT configuration of the emission tests is EUT +Wlan Link.

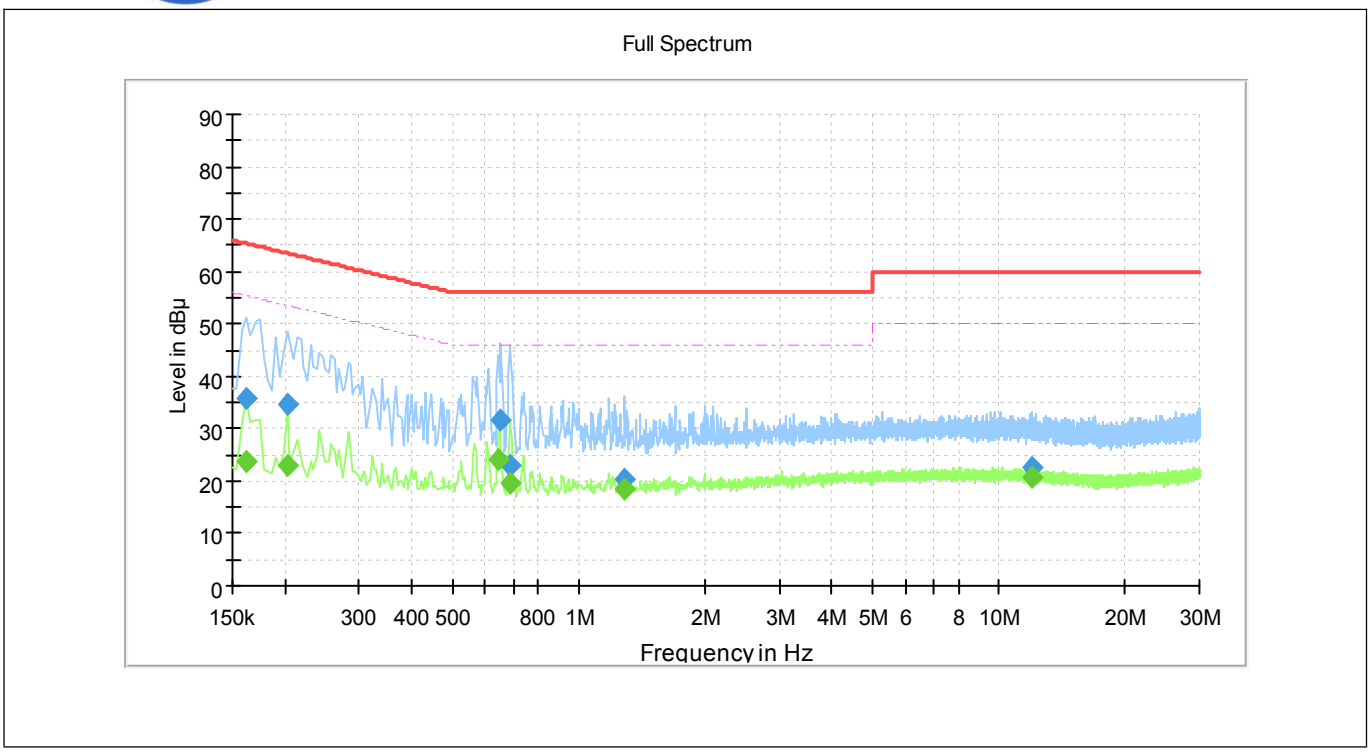
Note: The test voltage is AC 120V/60Hz.

B. Test Plots:



(Plot A: L Phase)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Verdict
0.150000	---	24.57	56.00	31.43	L1	10.2	PASS
0.150000	35.40	---	66.00	30.60	L1	10.2	PASS
0.654000	---	32.25	46.00	13.76	L1	10.2	PASS
0.658000	37.55	---	56.00	18.45	L1	10.2	PASS
0.690000	---	18.05	46.00	27.95	L1	10.2	PASS
0.690000	20.24	---	56.00	35.76	L1	10.2	PASS
1.162000	24.76	---	56.00	31.24	L1	10.3	PASS
1.162000	---	20.70	46.00	25.30	L1	10.3	PASS
1.998000	20.20	---	56.00	35.80	L1	10.3	PASS
1.998000	---	18.65	46.00	27.35	L1	10.3	PASS
11.074000	---	20.88	50.00	29.12	L1	10.6	PASS
11.074000	23.68	---	60.00	36.32	L1	10.6	PASS



(Plot A: N Phase)

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Verdict
0.162000	---	23.88	55.36	31.48	N	10.5	PASS
0.162000	35.80	---	65.36	29.56	N	10.5	PASS
0.202000	---	22.88	53.53	30.65	N	10.4	PASS
0.202000	34.53	---	63.53	28.99	N	10.4	PASS
0.646000	---	24.19	46.00	21.81	N	10.4	PASS
0.654000	31.45	---	56.00	24.55	N	10.4	PASS
0.686000	22.90	---	56.00	33.10	N	10.4	PASS
0.686000	---	19.55	46.00	26.45	N	10.4	PASS
1.286000	20.41	---	56.00	35.59	N	10.5	PASS
1.286000	---	18.58	46.00	27.42	N	10.5	PASS
11.986000	---	20.78	50.00	29.22	N	10.9	PASS
11.986000	22.45	---	60.00	37.55	N	10.9	PASS

2.8. Radiated Emission

2.8.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

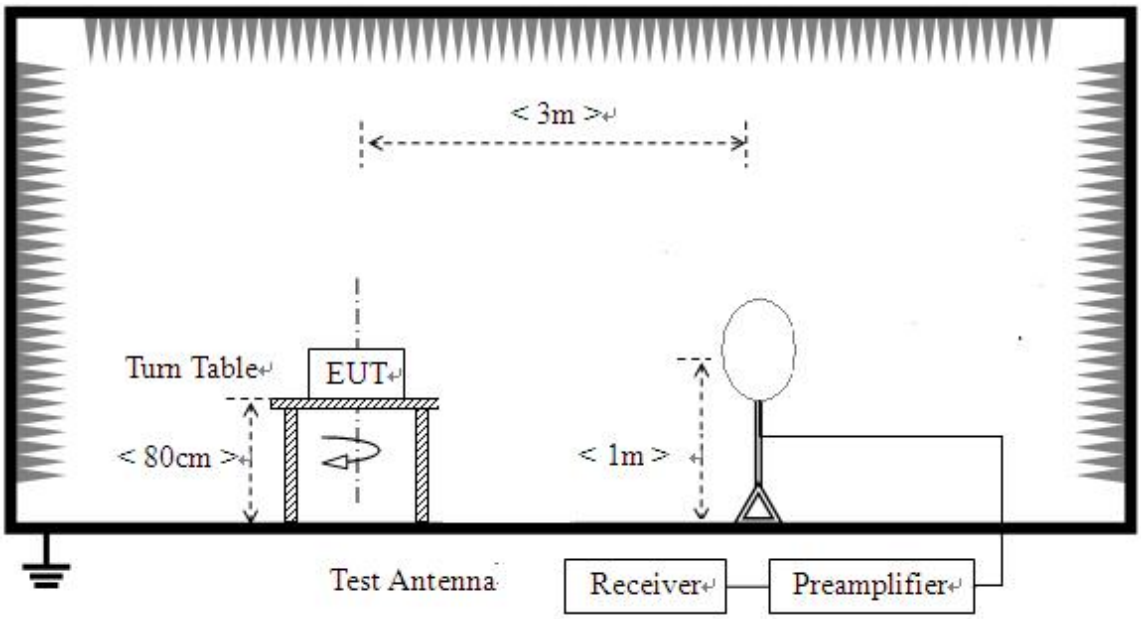
For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table)

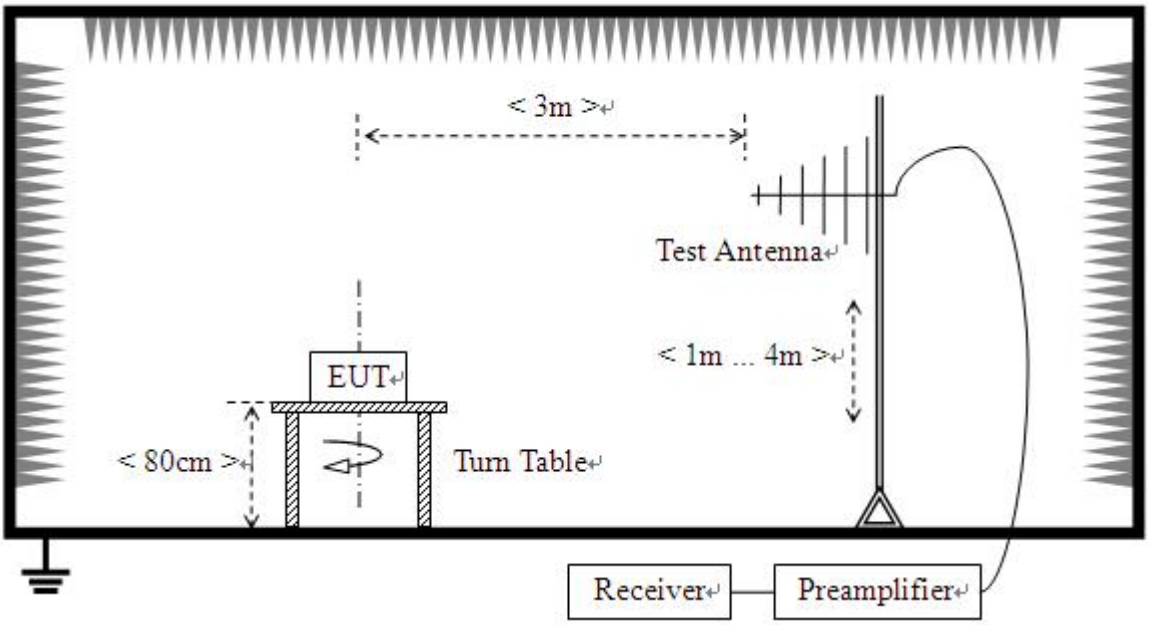
2.8.2. Test Description

E. Test Setup:

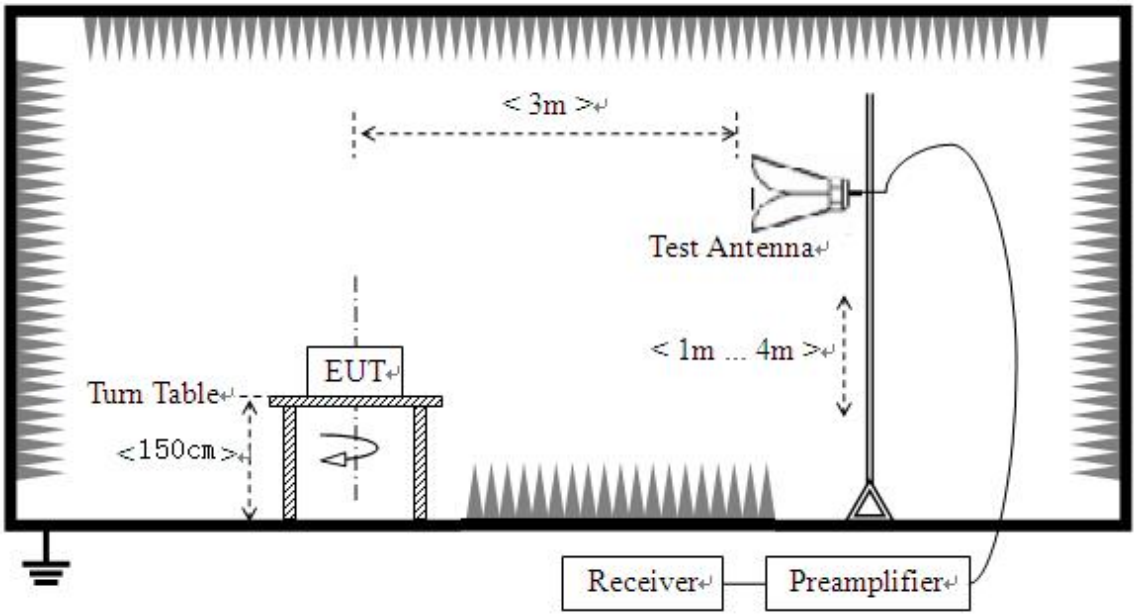
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 3GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material as specified in Figure 6 of ANSI C63.4: 2014.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.
For Radiated emission below 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
NOTE:
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz
a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasipeak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

A. Equipments List:

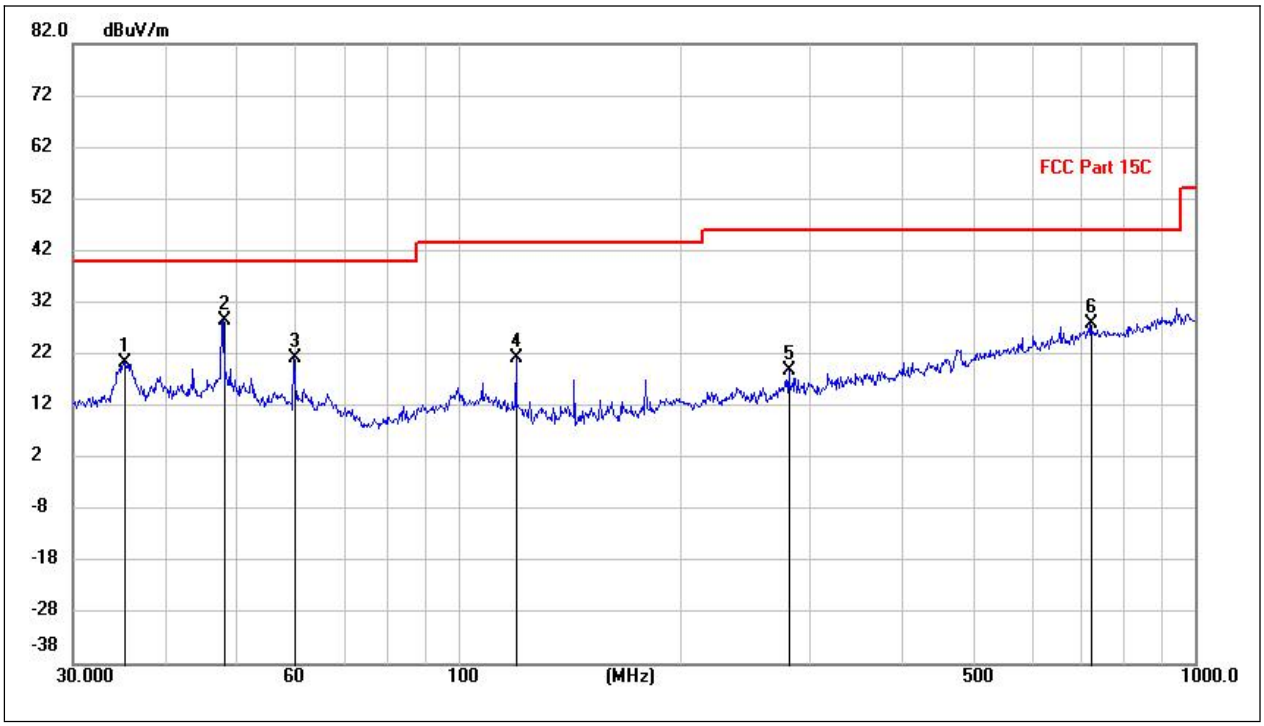
Please refere ANNEX B(4).

2.8.3. Test Result

Note1: For the frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

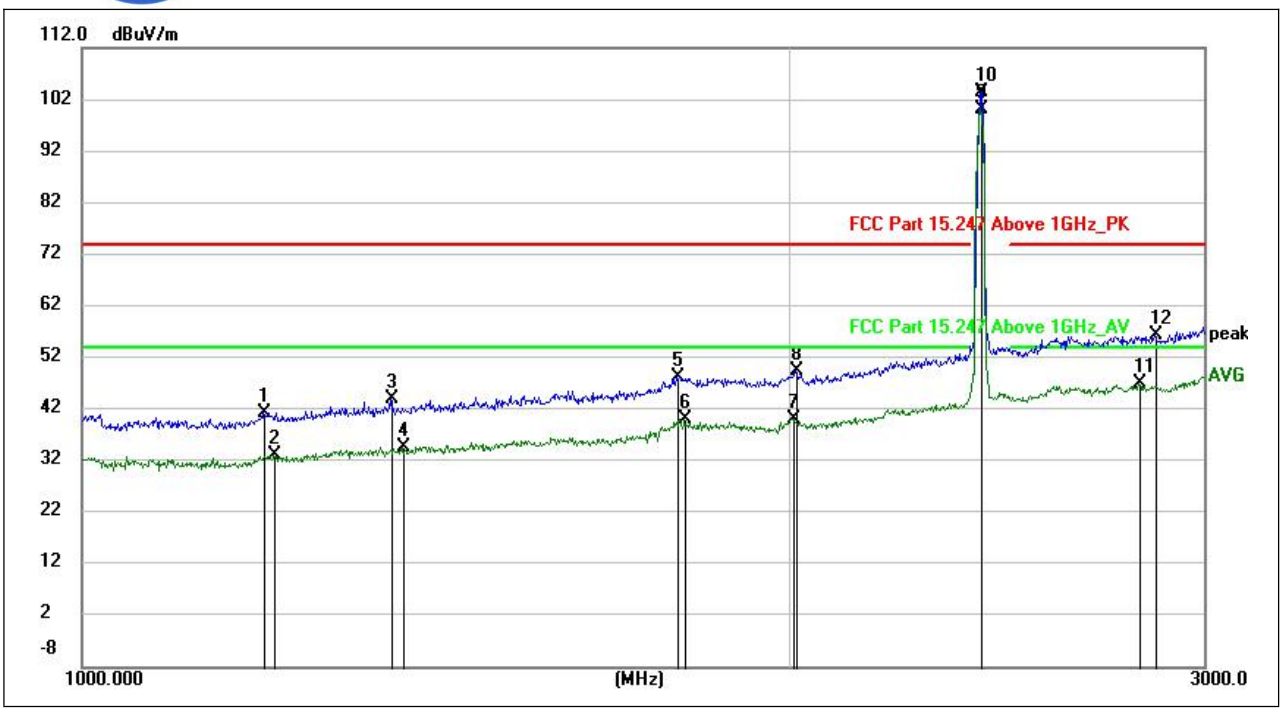
Note2: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 10dB lower than the limit was not recorded.

802.11b Test mode



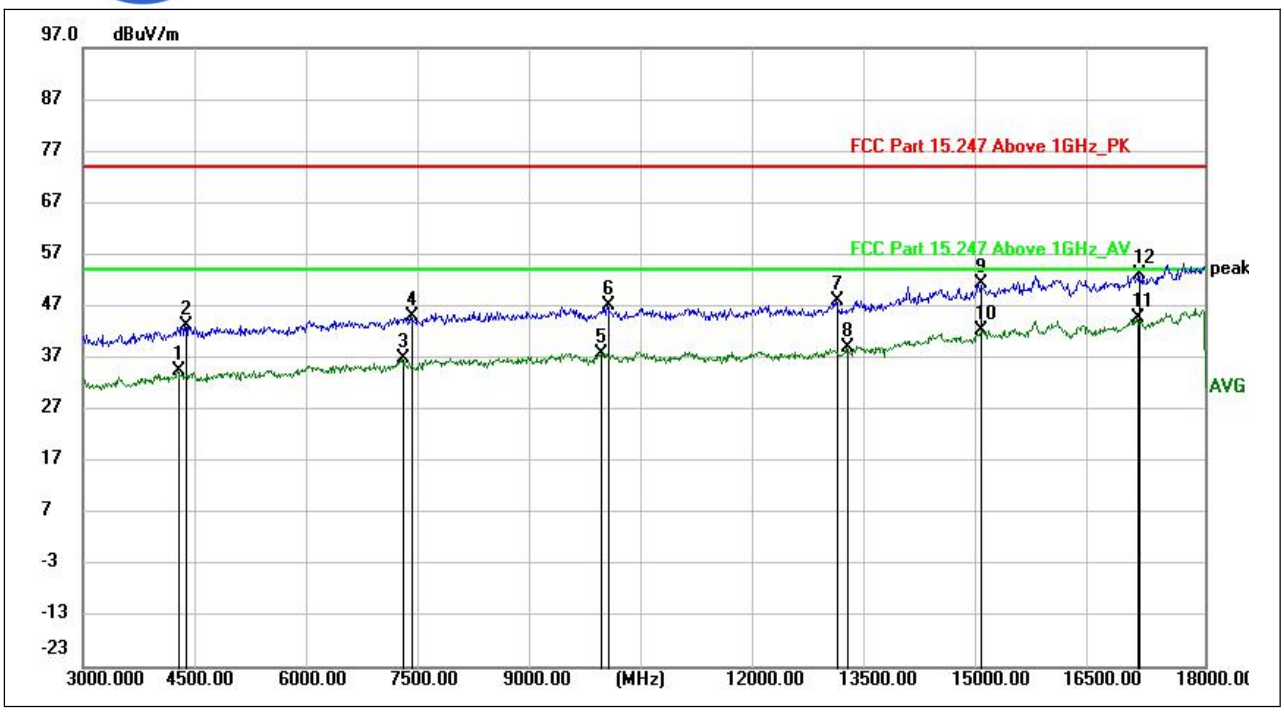
(802.11b _2412MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
35.2450	7.54	12.78	20.32	40.00	-19.68	peak	PASS
48.0024	13.00	15.51	28.51	40.00	-11.49	peak	PASS
59.9849	6.28	14.86	21.14	40.00	-18.86	peak	PASS
120.0028	8.06	13.11	21.17	43.50	-22.33	peak	PASS
281.8957	2.26	16.44	18.70	46.00	-27.30	peak	PASS
722.6122	2.93	25.07	28.00	46.00	-18.00	peak	PASS



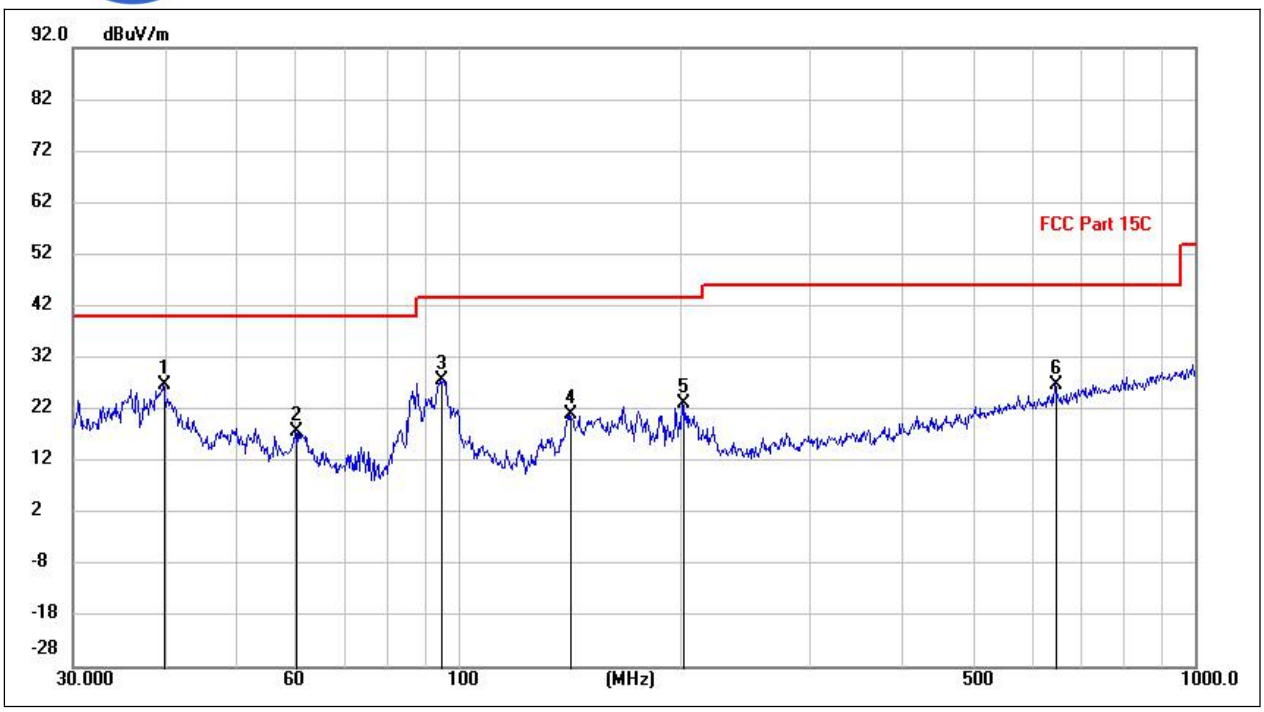
(802.11b _2412MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1195.321	10.90	30.37	41.27	74.00	-32.73	peak	PASS
1207.862	2.70	30.32	33.02	54.00	-20.98	AVG	PASS
1354.804	12.82	31.06	43.88	74.00	-30.12	peak	PASS
1369.469	3.71	30.95	34.66	54.00	-19.34	AVG	PASS
1792.351	12.05	36.11	48.16	74.00	-25.84	peak	PASS
1805.394	3.54	36.42	39.96	54.00	-14.04	AVG	PASS
2005.766	2.75	37.29	40.04	54.00	-13.96	AVG	PASS
2013.272	12.52	36.88	49.40	74.00	-24.60	peak	PASS
2413.124	58.90	41.07	99.97	N/A	N/A	AVG	N/A
2413.257	62.27	41.06	103.33	N/A	N/A	peak	N/A
2816.815	3.62	43.30	46.92	54.00	-7.08	AVG	PASS
2862.518	12.28	44.12	56.40	74.00	-17.60	peak	PASS



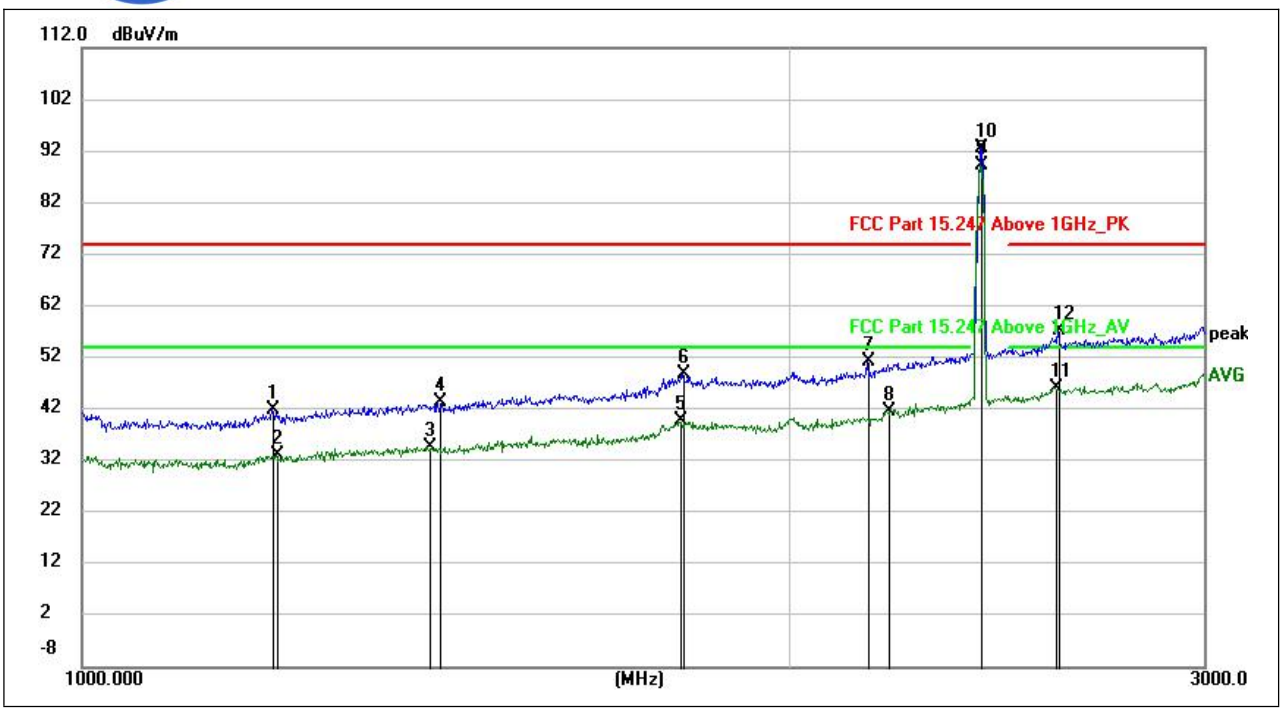
(802.11b _2412MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4278.750	37.73	-3.39	34.34	54.00	-19.66	AVG	PASS
4374.750	46.56	-3.41	43.15	74.00	-30.85	peak	PASS
7283.250	37.01	-0.29	36.72	54.00	-17.28	AVG	PASS
7407.000	45.35	-0.48	44.87	74.00	-29.13	peak	PASS
9919.500	35.74	2.14	37.88	54.00	-16.12	AVG	PASS
10017.000	45.28	1.84	47.12	74.00	-26.88	peak	PASS
13083.750	41.89	6.23	48.12	74.00	-25.88	peak	PASS
13218.000	33.58	5.38	38.96	54.00	-15.04	AVG	PASS
14996.250	40.86	10.49	51.35	74.00	-22.65	peak	PASS
15008.250	31.60	10.70	42.30	54.00	-11.70	AVG	PASS
17097.000	33.06	11.68	44.74	54.00	-9.26	AVG	PASS
17127.750	40.85	12.16	53.01	74.00	-20.99	peak	PASS



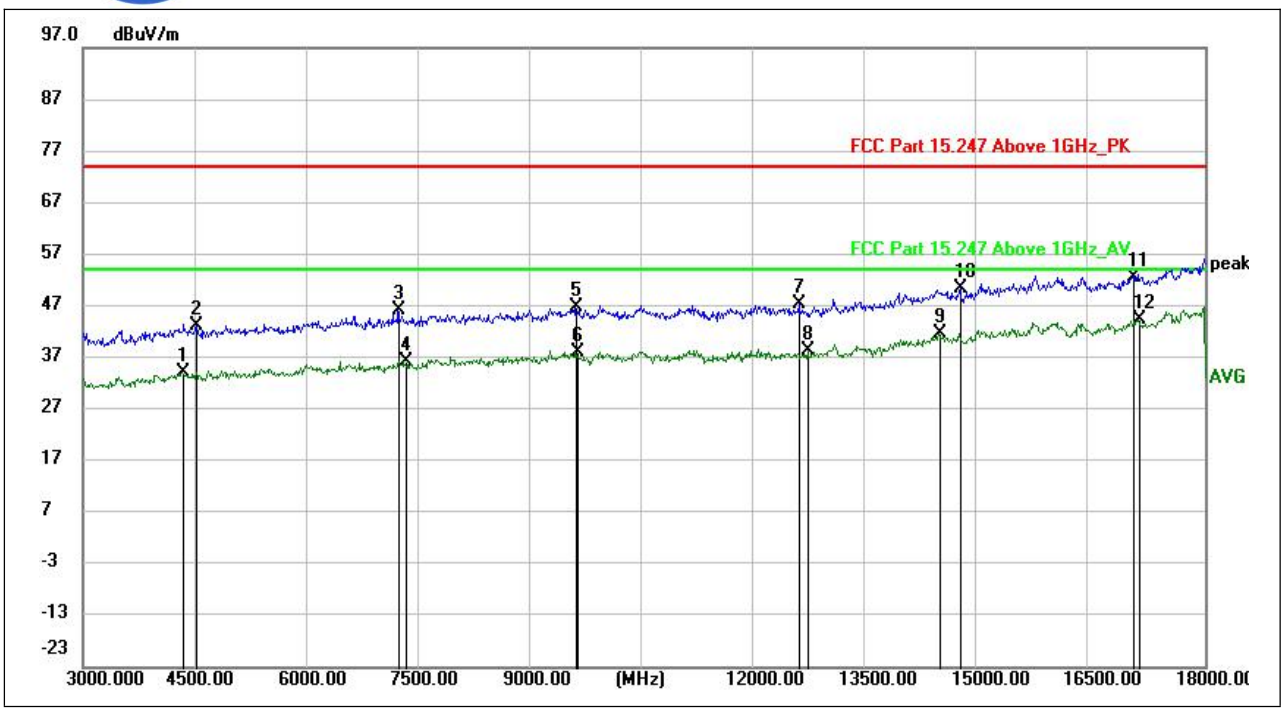
(802.11b _2412MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.8612	11.34	15.49	26.83	40.00	-13.17	peak	PASS
60.2590	3.14	14.67	17.81	40.00	-22.19	peak	PASS
95.0596	14.68	13.07	27.75	43.50	-15.75	peak	PASS
142.0004	9.42	11.45	20.87	43.50	-22.63	peak	PASS
202.0650	9.13	13.96	23.09	43.50	-20.41	peak	PASS
645.2326	2.27	24.32	26.59	46.00	-19.41	peak	PASS



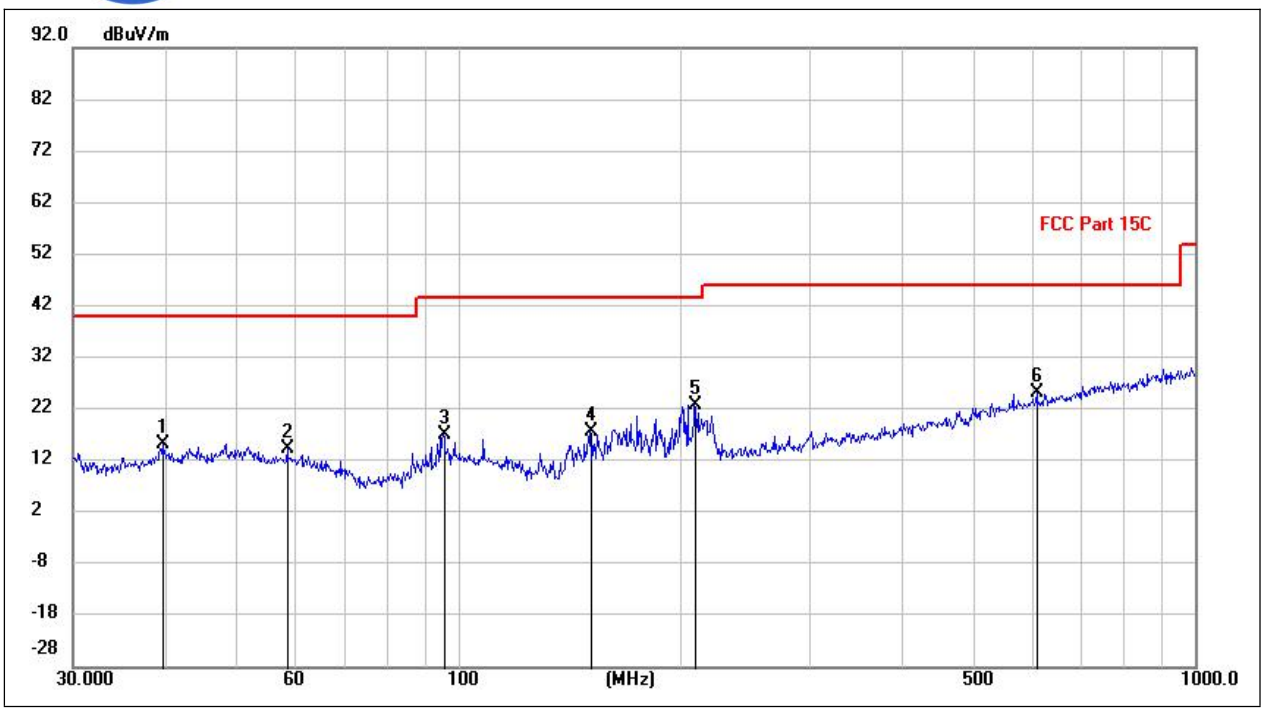
(802.11b _2412MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1205.740	11.34	30.41	41.75	74.00	-32.25	peak	PASS
1210.319	2.93	30.21	33.14	54.00	-20.86	AVG	PASS
1404.282	2.86	31.84	34.70	54.00	-19.30	AVG	PASS
1419.327	11.98	31.31	43.29	74.00	-30.71	peak	PASS
1796.885	3.11	36.56	39.67	54.00	-14.33	AVG	PASS
1802.025	12.22	36.64	48.86	74.00	-25.14	peak	PASS
2160.041	13.41	37.75	51.16	74.00	-22.84	peak	PASS
2201.366	2.98	38.69	41.67	54.00	-12.33	AVG	PASS
2412.727	48.24	41.09	89.33	N/A	N/A	AVG	N/A
2413.389	51.60	41.06	92.66	N/A	N/A	peak	N/A
2595.166	2.83	43.37	46.20	54.00	-7.80	AVG	PASS
2602.589	13.73	43.56	57.29	74.00	-16.71	peak	PASS



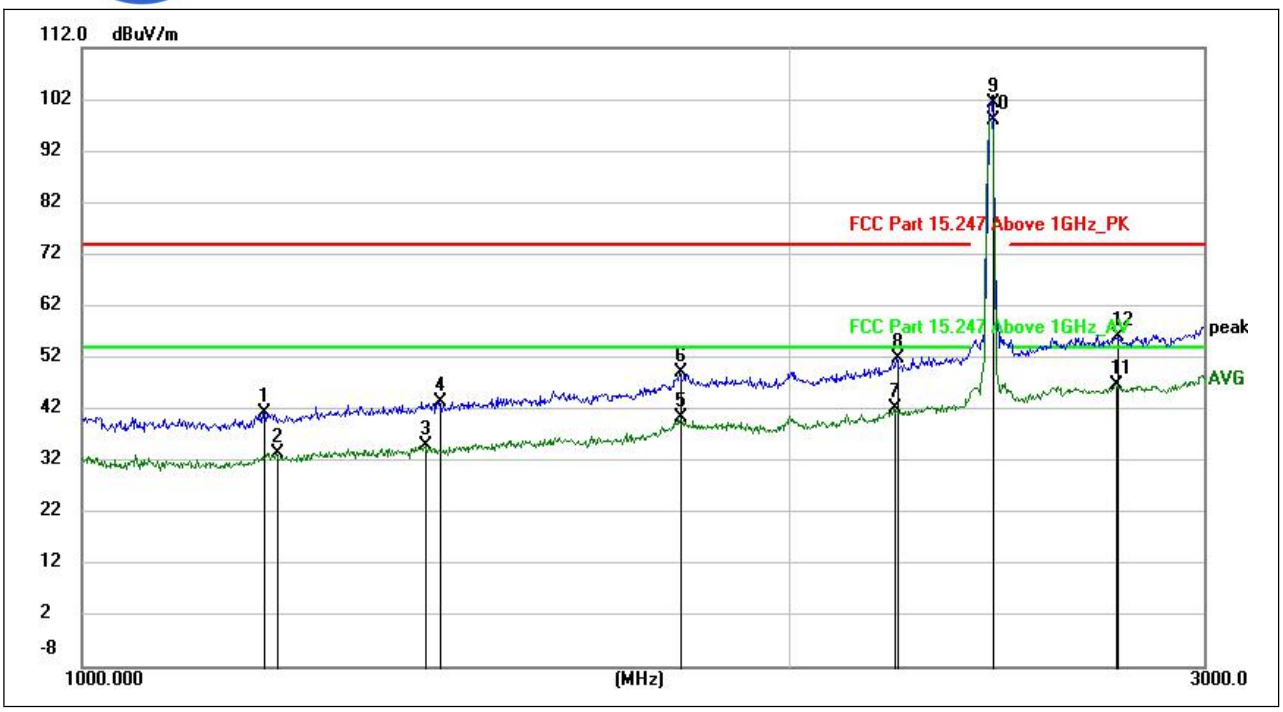
(802.11b _2412MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4346.250	37.56	-3.33	34.23	54.00	-19.77	AVG	PASS
4515.000	46.59	-3.45	43.14	74.00	-30.86	peak	PASS
7224.000	46.65	-0.37	46.28	74.00	-27.72	peak	PASS
7305.750	36.54	-0.26	36.28	54.00	-17.72	AVG	PASS
9591.750	44.57	2.10	46.67	74.00	-27.33	peak	PASS
9612.750	36.07	1.86	37.93	54.00	-16.07	AVG	PASS
12579.750	42.94	4.40	47.34	74.00	-26.66	peak	PASS
12699.750	33.74	4.57	38.31	54.00	-15.69	AVG	PASS
14449.500	32.42	9.21	41.63	54.00	-12.37	AVG	PASS
14736.750	41.07	9.27	50.34	74.00	-23.66	peak	PASS
17038.500	39.75	12.92	52.67	74.00	-21.33	peak	PASS
17125.500	31.73	12.80	44.53	54.00	-9.47	AVG	PASS



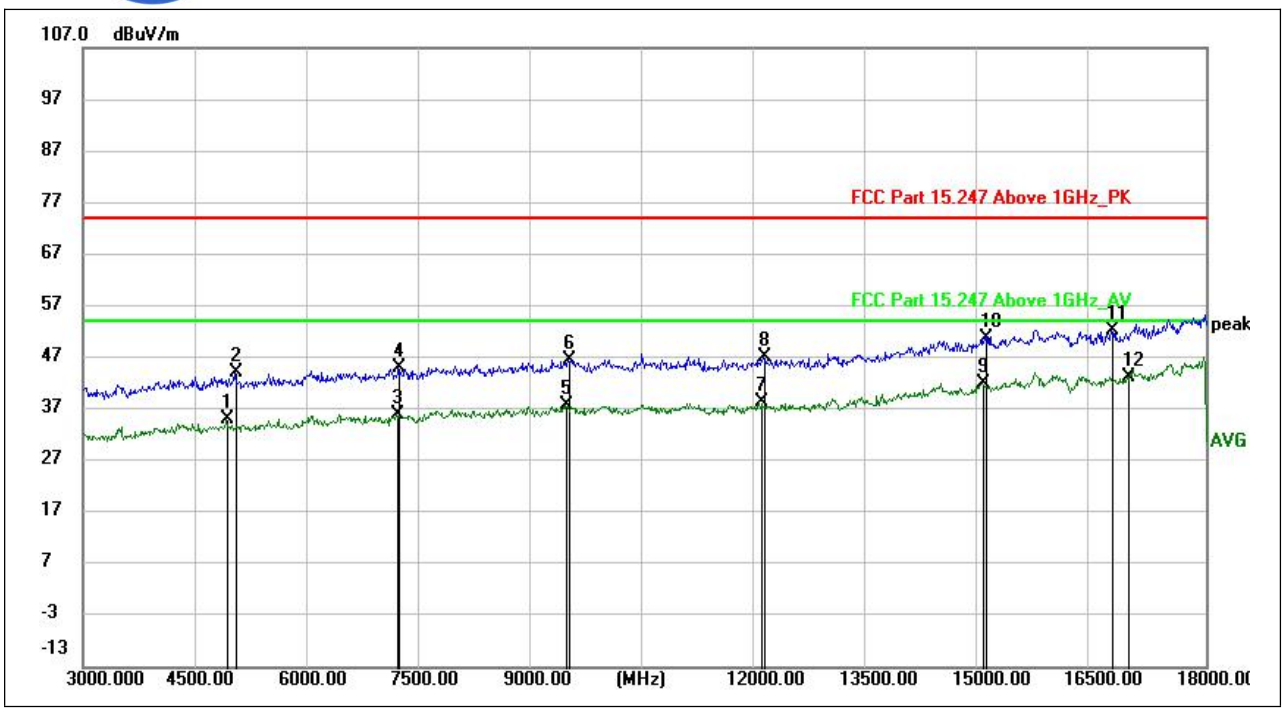
(802.11b _2437MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.7147	-0.08	15.27	15.19	40.00	-24.81	peak	PASS
58.6949	-0.22	14.45	14.23	40.00	-25.77	peak	PASS
95.5274	3.81	13.15	16.96	43.50	-26.54	peak	PASS
151.4113	6.33	11.29	17.62	43.50	-25.88	peak	PASS
209.7906	9.48	13.30	22.78	43.50	-20.72	peak	PASS
610.0287	1.68	23.55	25.23	46.00	-20.77	peak	PASS



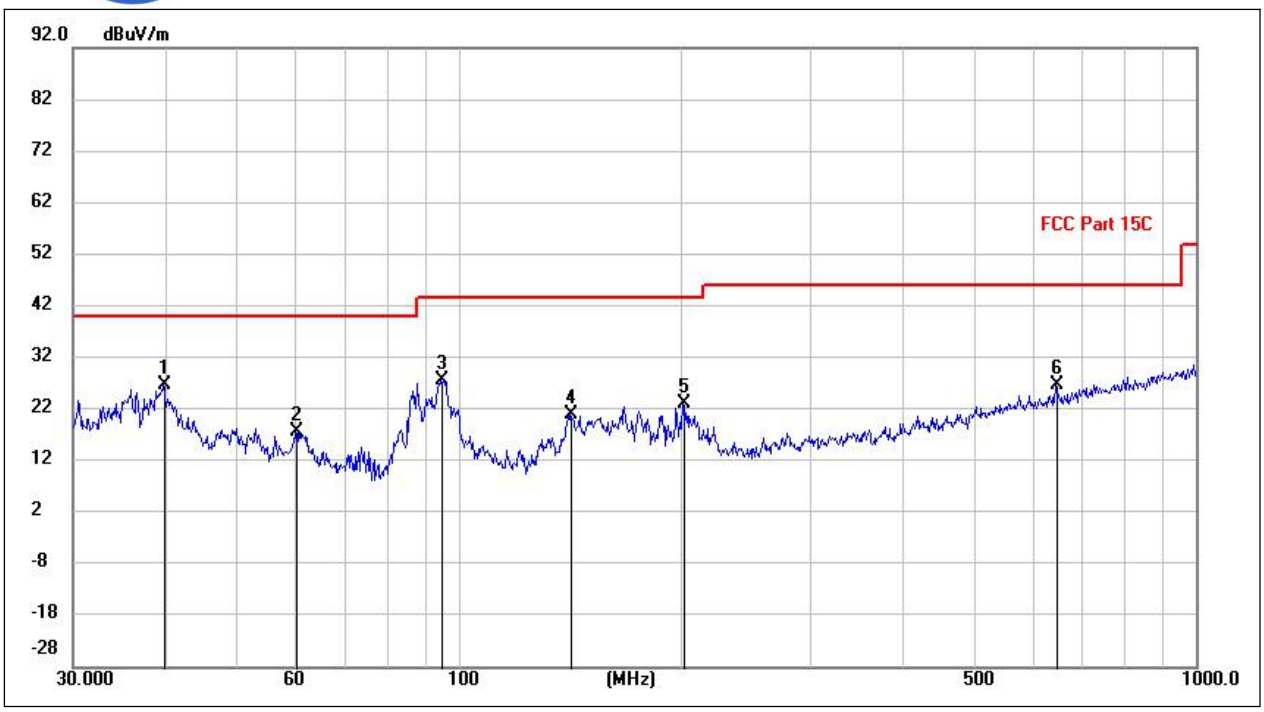
(802.11b _2437MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1194.927	10.94	30.34	41.28	74.00	-32.72	peak	PASS
1210.186	3.19	30.22	33.41	54.00	-20.59	AVG	PASS
1400.815	3.00	31.97	34.97	54.00	-19.03	AVG	PASS
1419.639	12.08	31.30	43.38	74.00	-30.62	peak	PASS
1796.490	3.80	36.53	40.33	54.00	-13.67	AVG	PASS
1797.181	12.41	36.58	48.99	74.00	-25.01	peak	PASS
2217.386	2.91	39.15	42.06	54.00	-11.94	AVG	PASS
2221.531	12.87	39.09	51.96	74.00	-22.04	peak	PASS
2437.772	60.62	40.80	101.42	N/A	N/A	peak	N/A
2437.772	57.30	40.80	98.10	N/A	N/A	AVG	N/A
2752.724	2.87	43.72	46.59	54.00	-7.41	AVG	PASS
2759.537	12.46	43.67	56.13	74.00	-17.87	peak	PASS



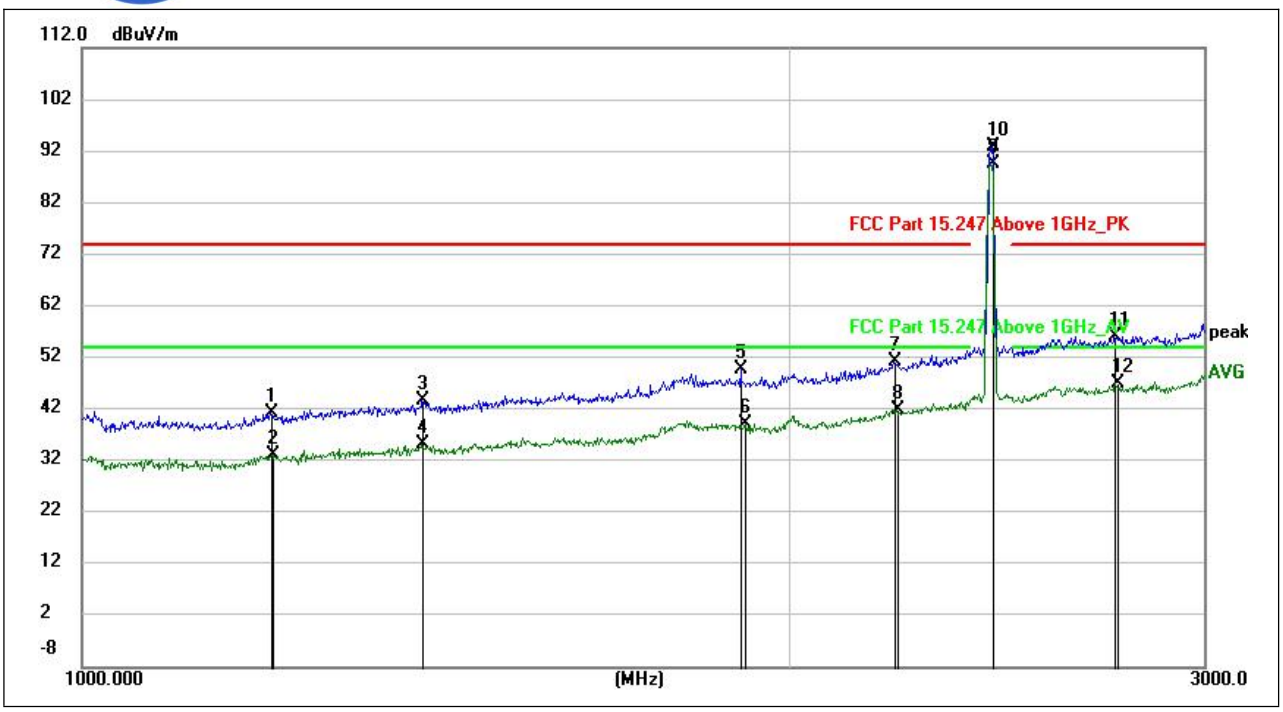
(802.11b _2437MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4932.000	37.97	-2.80	35.17	54.00	-18.83	AVG	PASS
5042.250	47.09	-2.98	44.11	74.00	-29.89	peak	PASS
7192.500	36.40	-0.44	35.96	54.00	-18.04	AVG	PASS
7229.250	45.31	-0.36	44.95	74.00	-29.05	peak	PASS
9452.250	35.97	1.87	37.84	54.00	-16.16	AVG	PASS
9488.250	44.88	1.58	46.46	74.00	-27.54	peak	PASS
12048.750	33.94	4.36	38.30	54.00	-15.70	AVG	PASS
12104.250	43.29	3.92	47.21	74.00	-26.79	peak	PASS
15029.250	31.25	10.68	41.93	54.00	-12.07	AVG	PASS
15057.750	40.63	10.18	50.81	74.00	-23.19	peak	PASS
16748.250	40.45	11.79	52.24	74.00	-21.76	peak	PASS
16975.500	32.08	11.19	43.27	54.00	-10.73	AVG	PASS



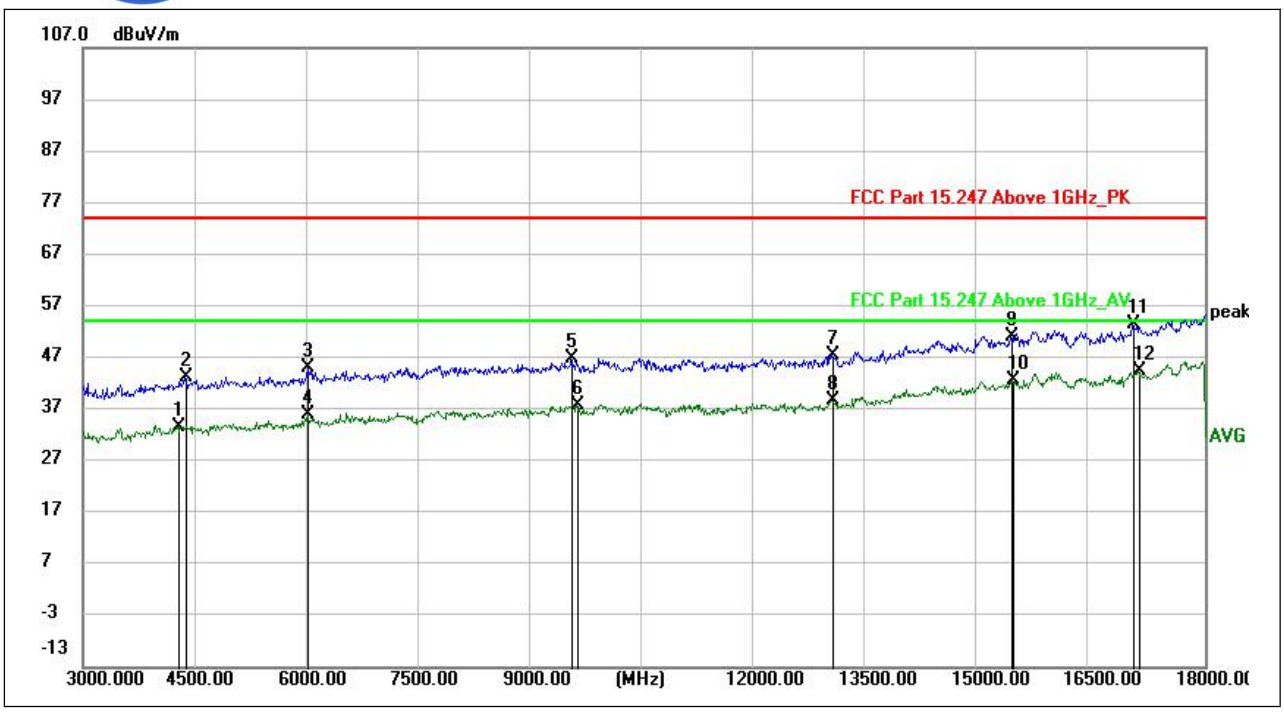
(802.11b _2437MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.8612	11.34	15.49	26.83	40.00	-13.17	peak	PASS
60.2590	3.14	14.67	17.81	40.00	-22.19	peak	PASS
95.0596	14.68	13.07	27.75	43.50	-15.75	peak	PASS
142.0004	9.42	11.45	20.87	43.50	-22.63	peak	PASS
202.0650	9.13	13.96	23.09	43.50	-20.41	peak	PASS
645.2326	2.27	24.32	26.59	46.00	-19.41	peak	PASS



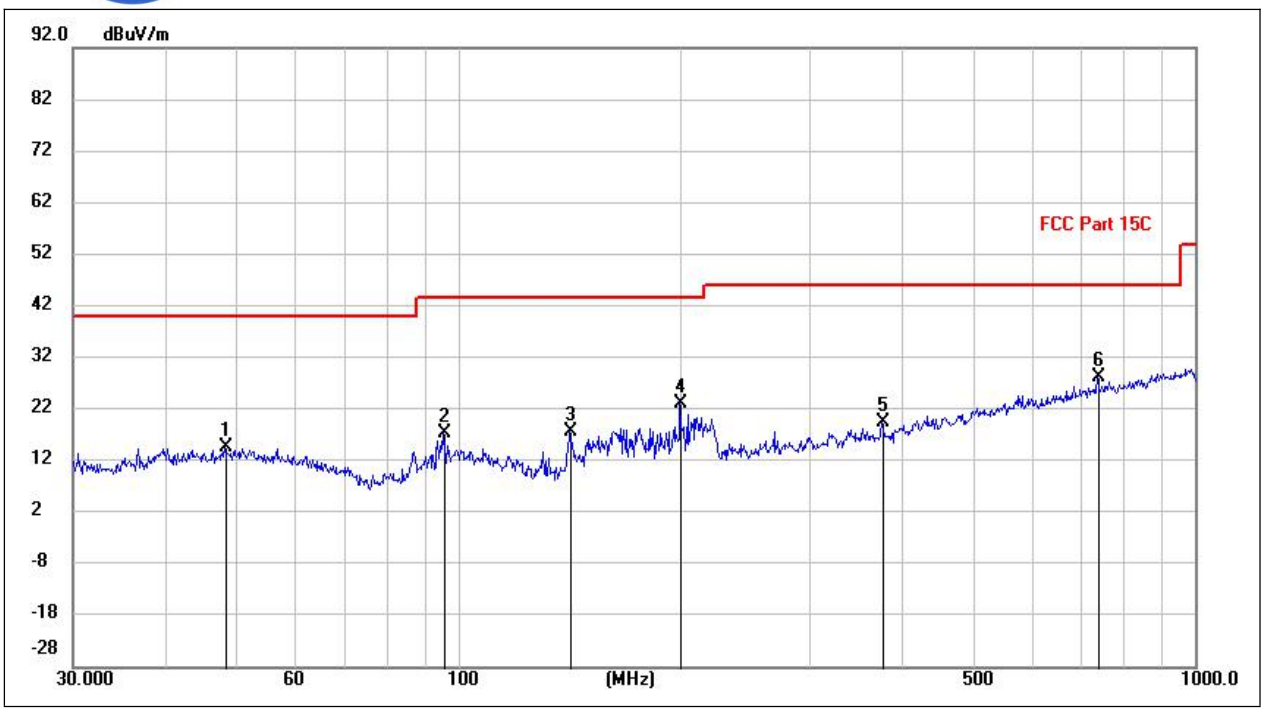
(802.11b _2437MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1203.094	10.87	30.55	41.42	74.00	-32.58	peak	PASS
1204.747	2.73	30.46	33.19	54.00	-20.81	AVG	PASS
1396.052	11.95	31.84	43.79	74.00	-30.21	peak	PASS
1396.052	3.32	31.84	35.16	54.00	-18.84	AVG	PASS
1905.769	13.56	36.10	49.66	74.00	-24.34	peak	PASS
1915.950	3.14	35.90	39.04	54.00	-14.96	AVG	PASS
2216.290	11.97	39.15	51.12	74.00	-22.88	peak	PASS
2221.165	2.78	39.10	41.88	54.00	-12.12	AVG	PASS
2437.638	48.66	40.79	89.45	N/A	N/A	AVG	N/A
2438.307	51.99	40.80	92.79	N/A	N/A	peak	N/A
2748.493	12.56	43.59	56.15	74.00	-17.85	peak	PASS
2754.236	3.11	43.77	46.88	54.00	-7.12	AVG	PASS



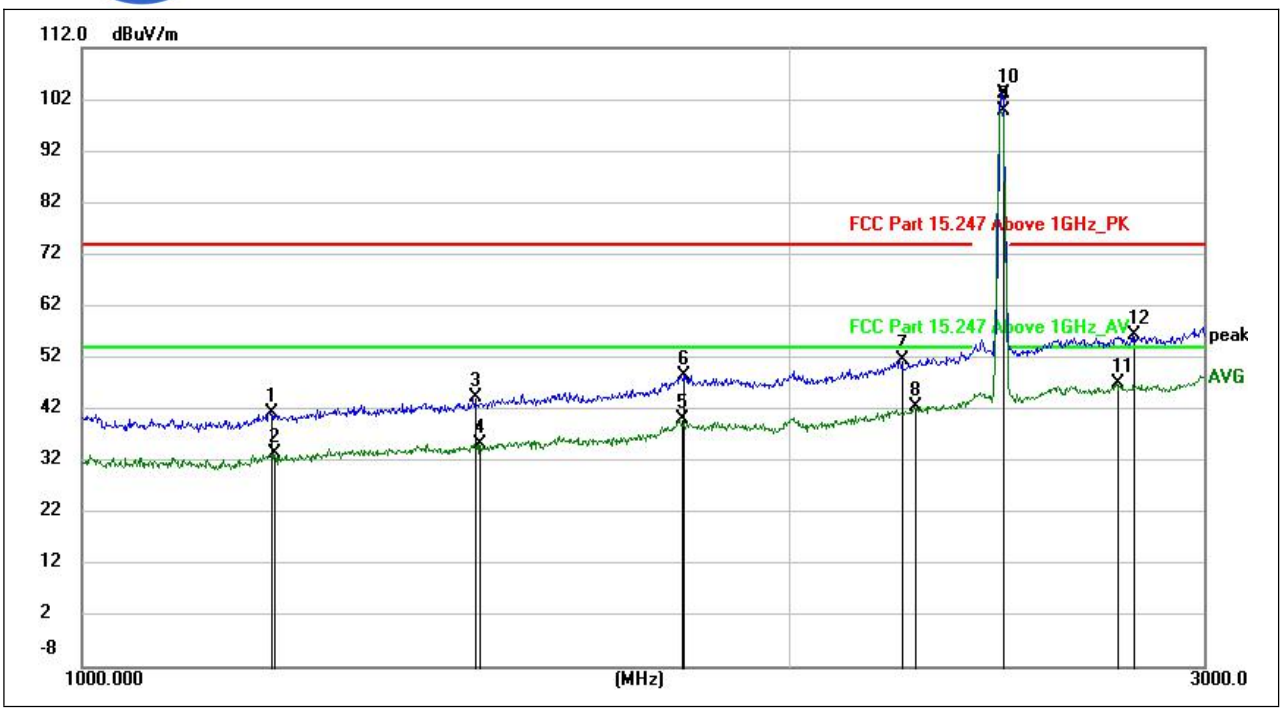
(802.11b _2437MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4271.250	37.17	-3.44	33.73	54.00	-20.27	AVG	PASS
4376.250	46.62	-3.43	43.19	74.00	-30.81	peak	PASS
6012.750	46.36	-1.26	45.10	74.00	-28.90	peak	PASS
6012.750	37.34	-1.26	36.08	54.00	-17.92	AVG	PASS
9533.250	44.53	2.28	46.81	74.00	-27.19	peak	PASS
9613.500	36.07	1.86	37.93	54.00	-16.07	AVG	PASS
13023.000	41.39	6.02	47.41	74.00	-26.59	peak	PASS
13023.000	32.82	6.02	38.84	54.00	-15.16	AVG	PASS
15408.000	40.92	10.02	50.94	74.00	-23.06	peak	PASS
15436.500	32.05	10.50	42.55	54.00	-11.45	AVG	PASS
17034.750	40.56	12.93	53.49	74.00	-20.51	peak	PASS
17127.750	31.66	12.81	44.47	54.00	-9.53	AVG	PASS



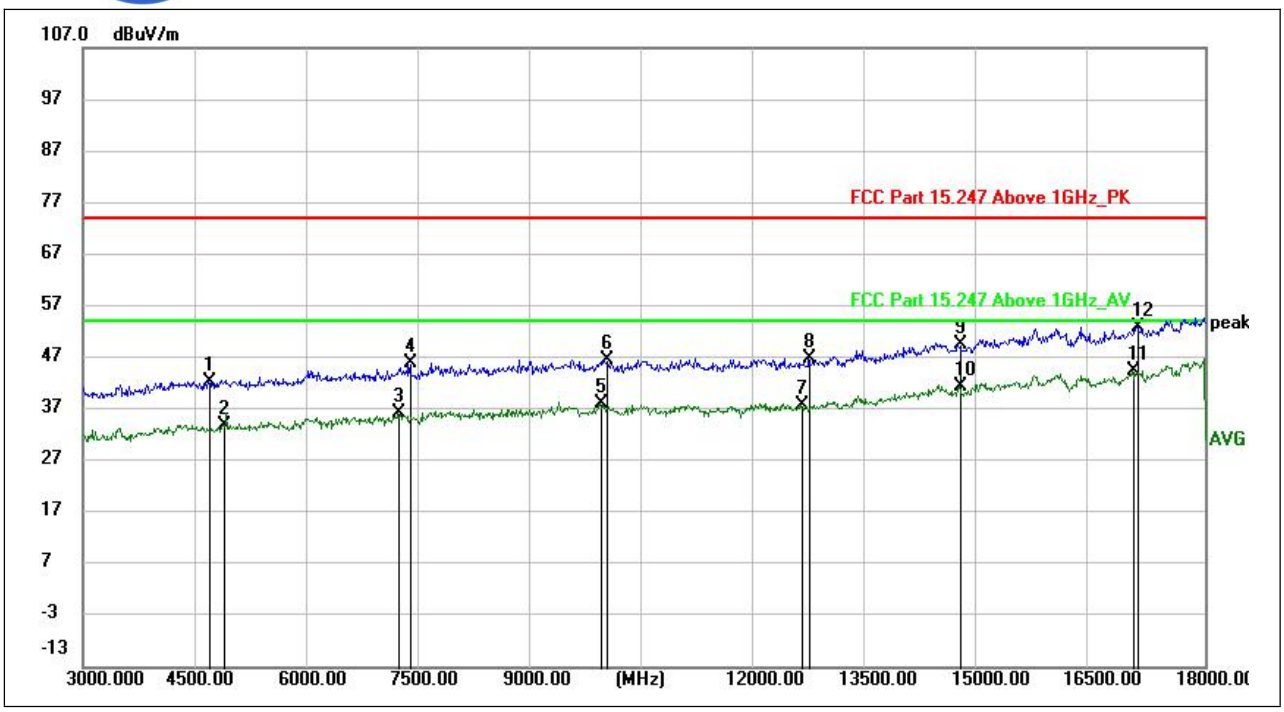
(802.11b _2462MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
48.1879	-0.90	15.52	14.62	40.00	-25.38	peak	PASS
95.6615	4.14	13.17	17.31	43.50	-26.19	peak	PASS
141.9257	6.08	11.47	17.55	43.50	-25.95	peak	PASS
200.0557	8.62	14.35	22.97	43.50	-20.53	peak	PASS
377.1929	0.74	18.75	19.49	46.00	-26.51	peak	PASS
738.8828	2.46	25.77	28.23	46.00	-17.77	peak	PASS



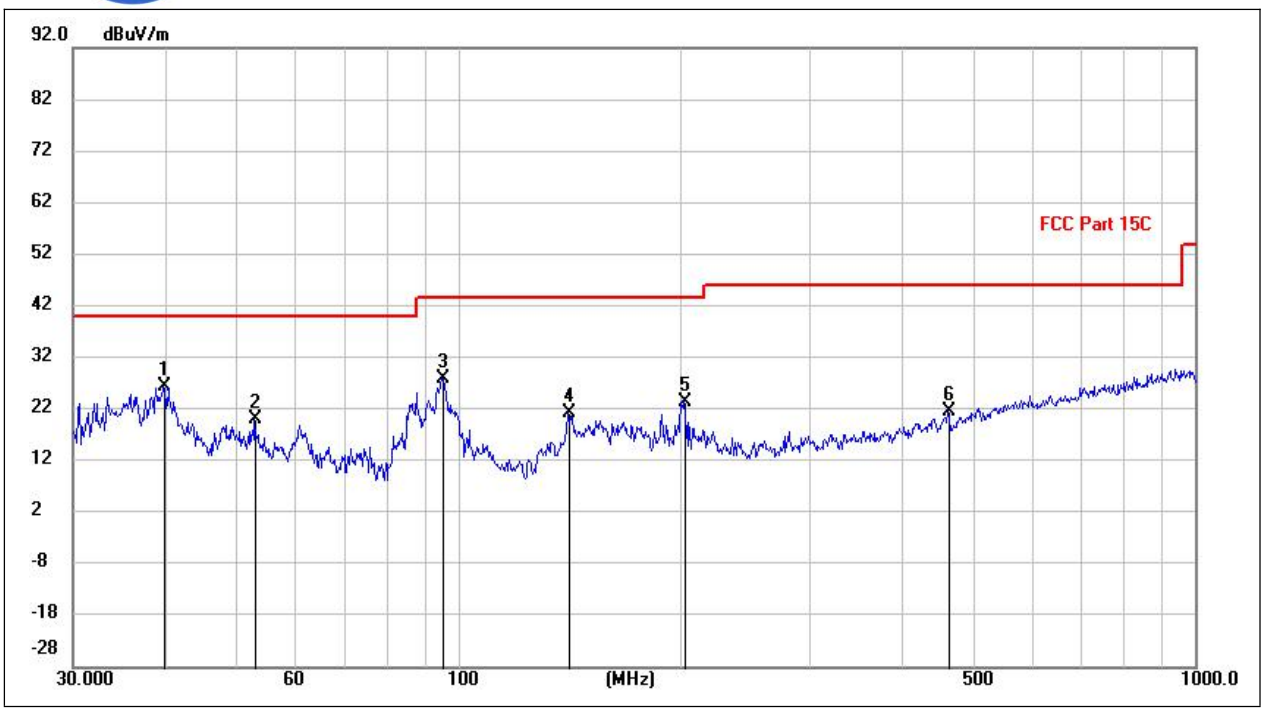
(802.11b _2462MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1203.490	10.63	30.53	41.16	74.00	-32.84	peak	PASS
1207.066	2.98	30.35	33.33	54.00	-20.67	AVG	PASS
1469.143	12.09	32.36	44.45	74.00	-29.55	peak	PASS
1476.181	2.81	32.40	35.21	54.00	-18.79	AVG	PASS
1799.256	3.31	36.72	40.03	54.00	-13.97	AVG	PASS
1800.145	11.66	36.77	48.43	74.00	-25.57	peak	PASS
2230.825	12.71	38.92	51.63	74.00	-22.37	peak	PASS
2261.423	3.29	39.15	42.44	54.00	-11.56	AVG	PASS
2462.671	58.38	41.52	99.90	N/A	N/A	AVG	N/A
2463.212	61.51	41.53	103.04	N/A	N/A	peak	N/A
2756.507	3.33	43.78	47.11	54.00	-6.89	AVG	PASS
2800.923	11.63	44.67	56.30	74.00	-17.70	peak	PASS



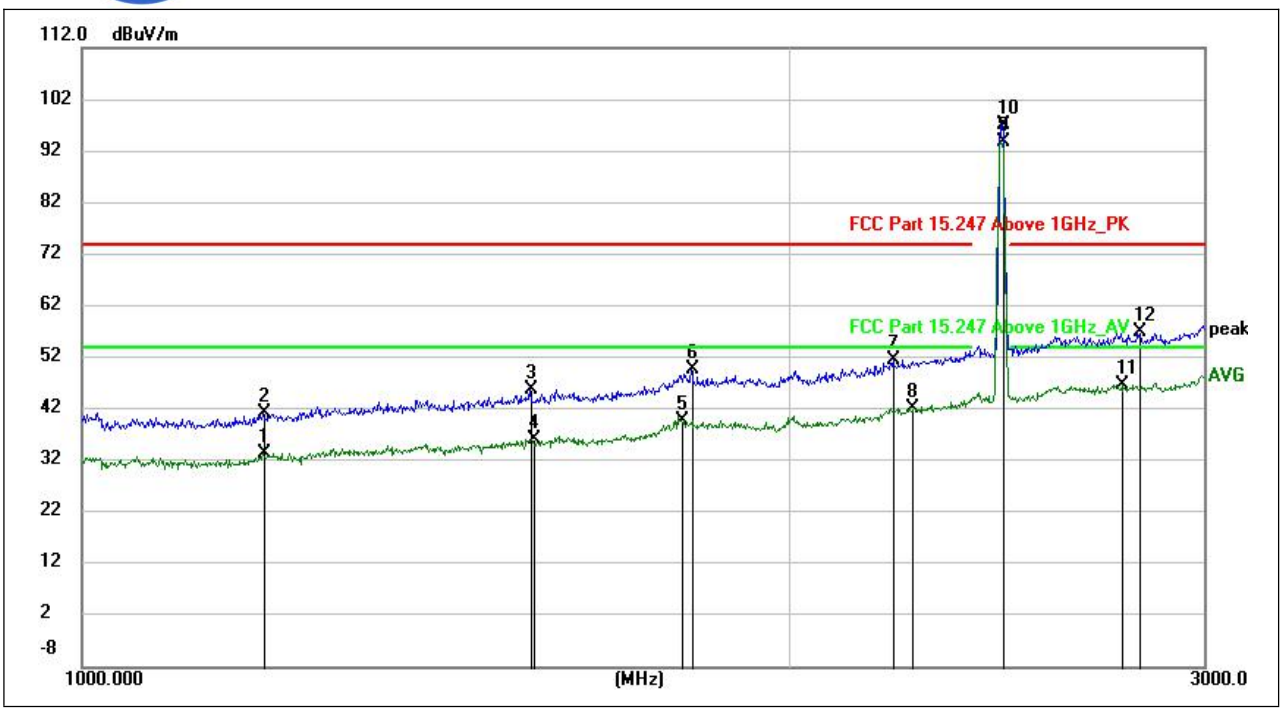
(802.11b _2462MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4693.500	45.77	-3.44	42.33	74.00	-31.67	peak	PASS
4880.250	36.64	-2.82	33.82	54.00	-20.18	AVG	PASS
7227.000	36.72	-0.37	36.35	54.00	-17.65	AVG	PASS
7365.750	46.30	-0.22	46.08	74.00	-27.92	peak	PASS
9930.000	36.06	2.11	38.17	54.00	-15.83	AVG	PASS
9998.250	44.69	1.92	46.61	74.00	-27.39	peak	PASS
12613.500	33.22	4.62	37.84	54.00	-16.16	AVG	PASS
12720.000	42.11	4.68	46.79	74.00	-27.21	peak	PASS
14719.500	40.04	9.45	49.49	74.00	-24.51	peak	PASS
14730.750	32.01	9.36	41.37	54.00	-12.63	AVG	PASS
17044.500	32.93	11.49	44.42	54.00	-9.58	AVG	PASS
17095.500	41.26	11.67	52.93	74.00	-21.07	peak	PASS



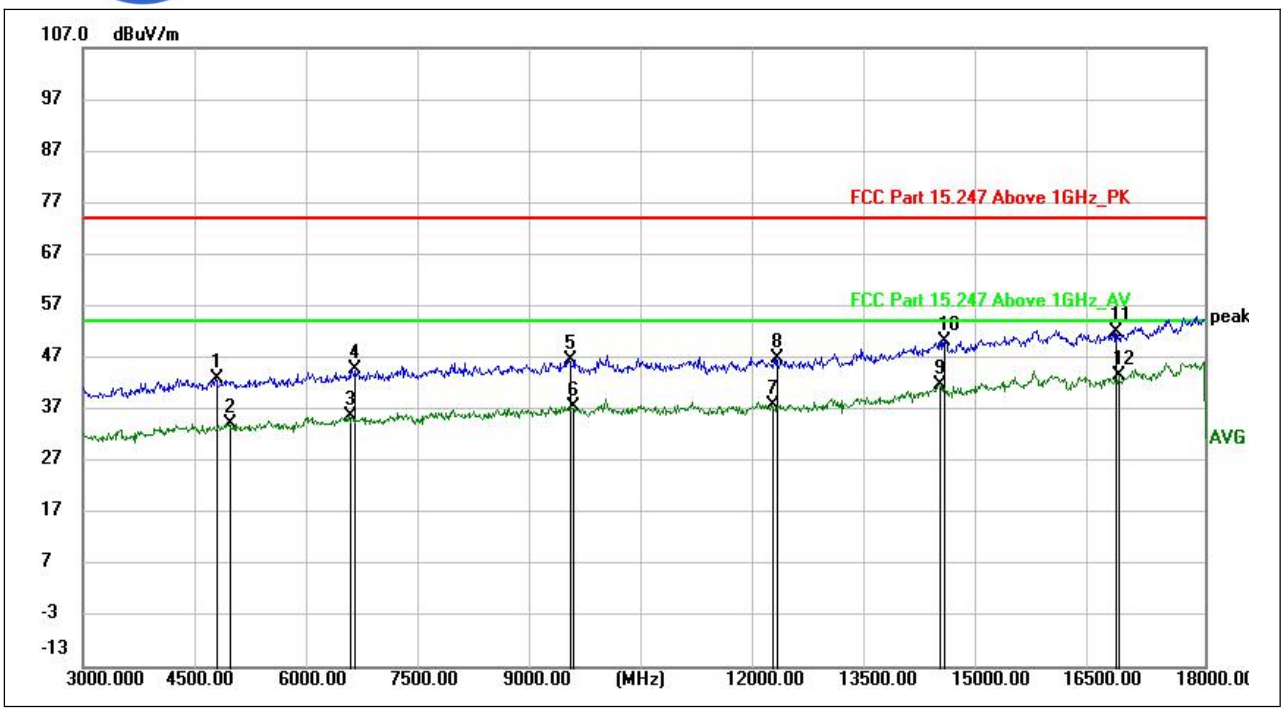
(802.11b _2462MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.9382	10.88	15.61	26.49	40.00	-13.51	peak	PASS
53.1127	4.84	15.35	20.19	40.00	-19.81	peak	PASS
95.3935	14.82	13.13	27.95	43.50	-15.55	peak	PASS
141.2555	9.75	11.67	21.42	43.50	-22.08	peak	PASS
202.8459	9.62	13.86	23.48	43.50	-20.02	peak	PASS
463.8883	1.00	20.54	21.54	46.00	-24.46	peak	PASS



(802.11b _2462MHz, Antenna Vertical , 1GHz to 3GHz)

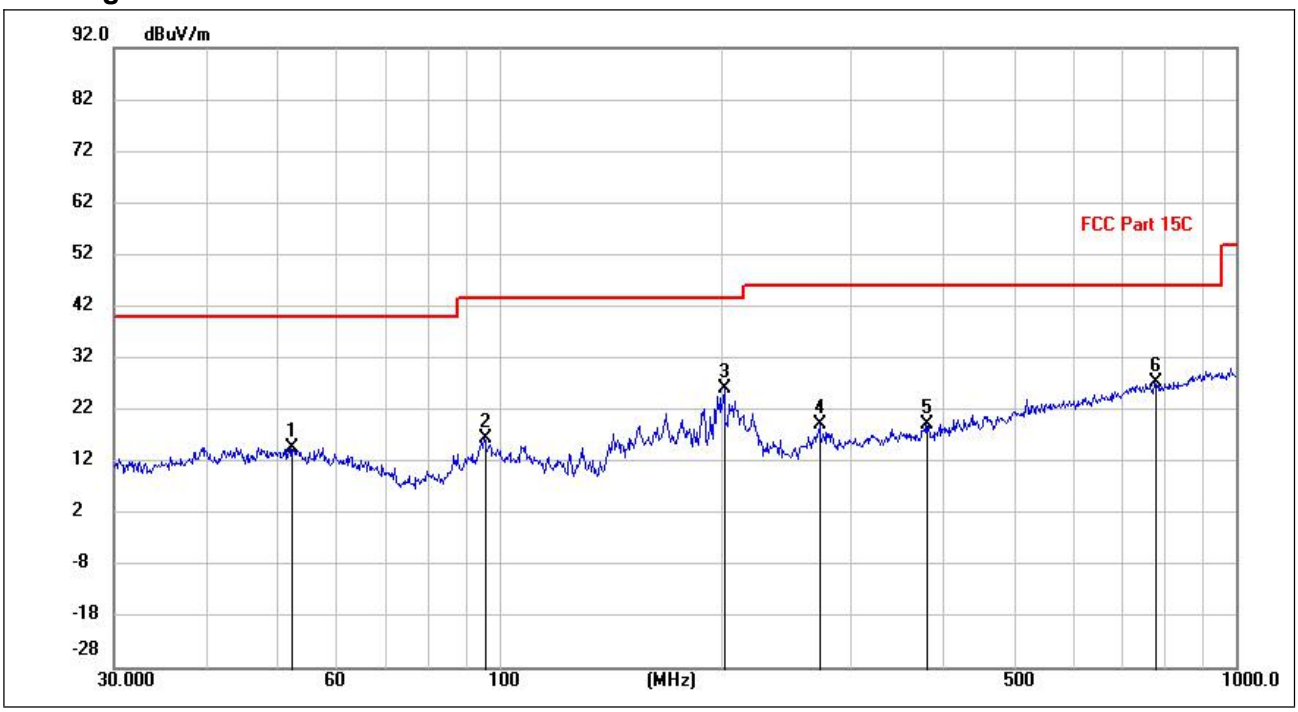
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1195.781	3.11	30.40	33.51	54.00	-20.49	AVG	PASS
1196.043	10.77	30.42	41.19	74.00	-32.81	peak	PASS
1551.164	12.59	33.29	45.88	74.00	-28.12	peak	PASS
1555.345	3.01	33.26	36.27	54.00	-17.73	AVG	PASS
1799.256	3.16	36.72	39.88	54.00	-14.12	AVG	PASS
1817.533	14.06	35.57	49.63	74.00	-24.37	peak	PASS
2214.222	12.32	39.18	51.50	74.00	-22.50	peak	PASS
2252.373	3.16	39.03	42.19	54.00	-11.81	AVG	PASS
2462.942	52.21	41.52	93.73	N/A	N/A	AVG	N/A
2463.212	55.40	41.53	96.93	N/A	N/A	peak	N/A
2771.233	3.60	43.27	46.87	54.00	-7.13	AVG	PASS
2816.970	13.75	43.29	57.04	74.00	-16.96	peak	PASS



(802.11b _2462MHz, Antenna Vertical, 3GHz to 18GHz)

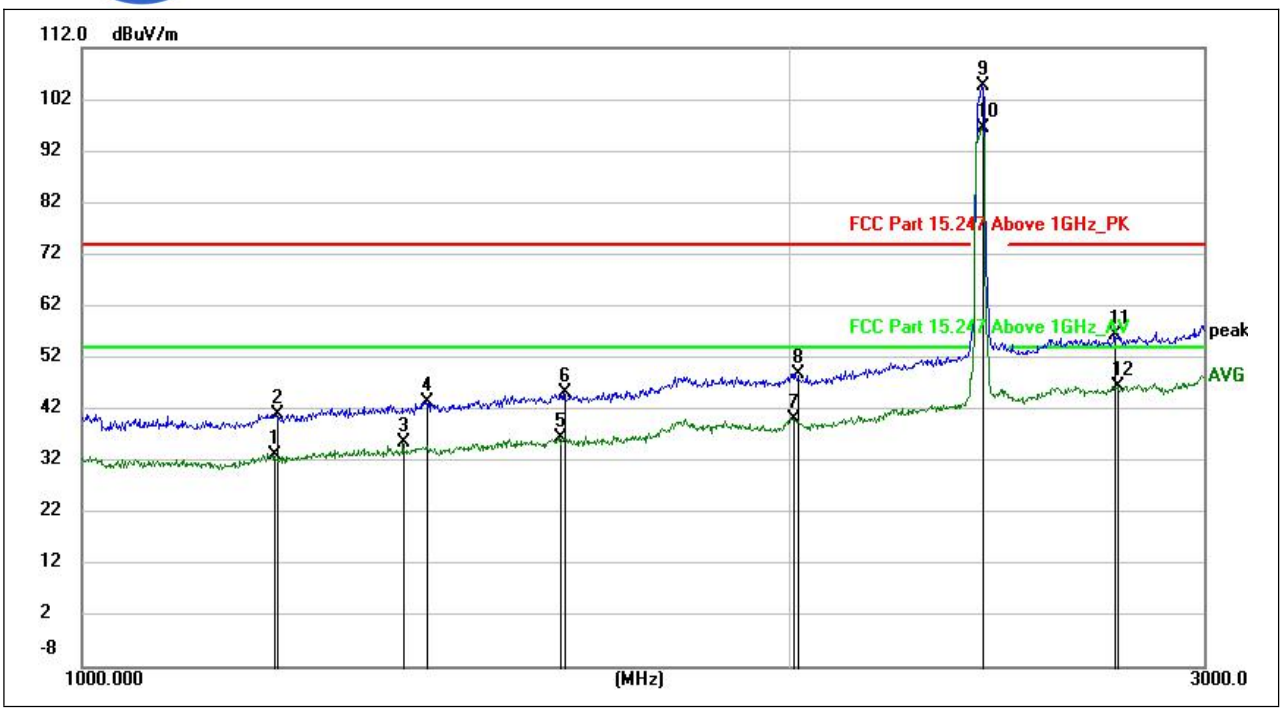
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4782.750	46.20	-3.38	42.82	74.00	-31.18	peak	PASS
4967.250	37.08	-2.86	34.22	54.00	-19.78	AVG	PASS
6564.000	36.56	-0.86	35.70	54.00	-18.30	AVG	PASS
6621.750	45.43	-0.72	44.71	74.00	-29.29	peak	PASS
9510.000	44.65	2.03	46.68	74.00	-27.32	peak	PASS
9548.250	35.13	2.43	37.56	54.00	-16.44	AVG	PASS
12223.500	33.83	4.04	37.87	54.00	-16.13	AVG	PASS
12277.500	42.77	4.04	46.81	74.00	-27.19	peak	PASS
14450.250	32.42	9.20	41.62	54.00	-12.38	AVG	PASS
14512.500	41.09	9.07	50.16	74.00	-23.84	peak	PASS
16810.500	40.56	11.42	51.98	74.00	-22.02	peak	PASS
16852.500	31.28	12.12	43.40	54.00	-10.60	AVG	PASS

802.11g Test mode



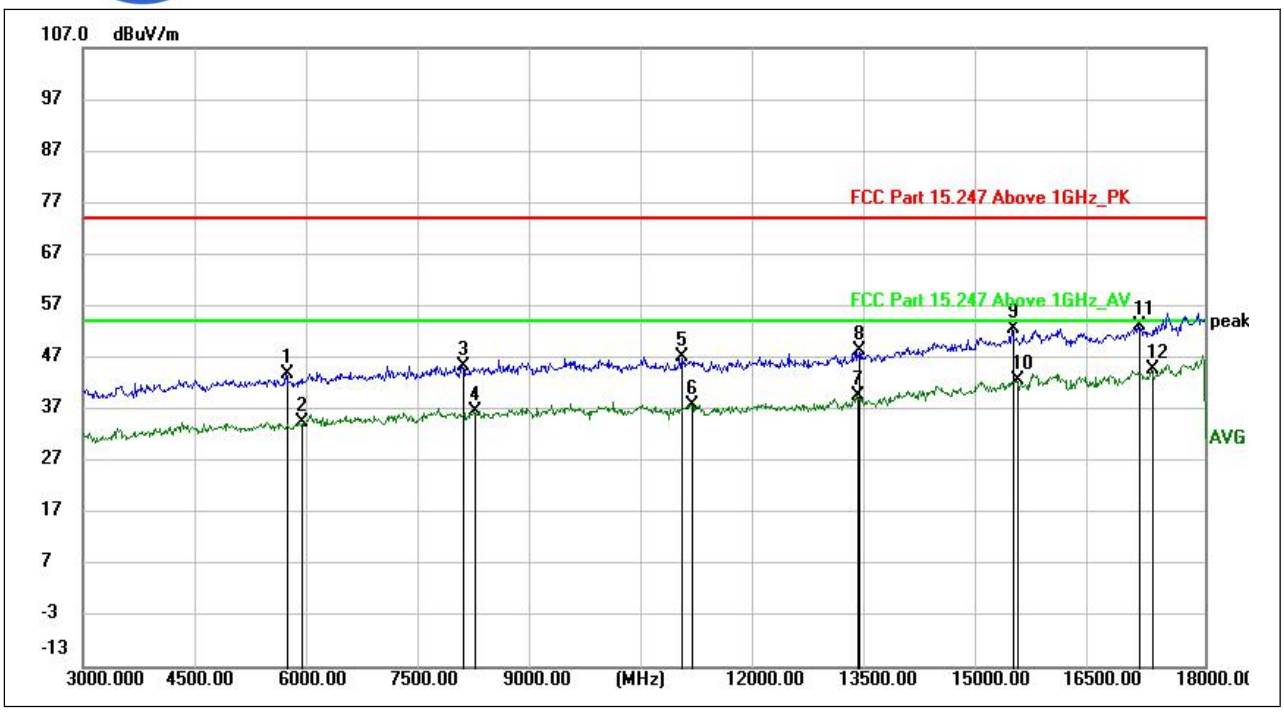
(802.11g _2412MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
52.3454	-0.79	15.40	14.61	40.00	-25.39	peak	PASS
95.4939	3.34	13.15	16.49	43.50	-27.01	peak	PASS
202.4551	12.23	13.91	26.14	43.50	-17.36	peak	PASS
272.5642	3.73	15.43	19.16	46.00	-26.84	peak	PASS
380.3140	0.07	19.16	19.23	46.00	-26.77	peak	PASS
777.9683	1.38	26.03	27.41	46.00	-18.59	peak	PASS



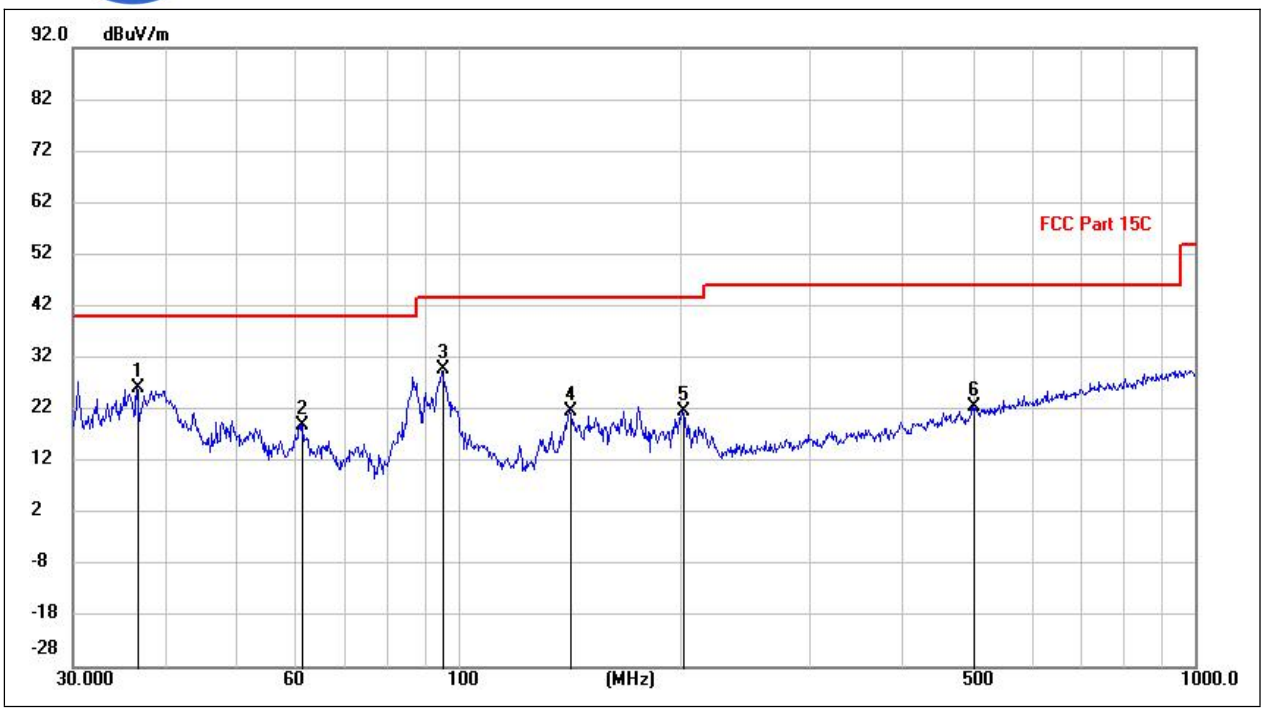
(802.11g _2412MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1207.066	2.71	30.35	33.06	54.00	-20.94	AVG	PASS
1211.516	10.90	30.16	41.06	74.00	-32.94	peak	PASS
1369.770	4.60	30.95	35.55	54.00	-18.45	AVG	PASS
1402.355	11.39	31.91	43.30	74.00	-30.70	peak	PASS
1597.162	2.47	34.11	36.58	54.00	-17.42	AVG	PASS
1604.461	11.23	34.08	45.31	74.00	-28.69	peak	PASS
2006.757	2.99	37.23	40.22	54.00	-13.78	AVG	PASS
2013.603	11.99	36.86	48.85	74.00	-25.15	peak	PASS
2415.777	63.72	40.94	104.66	N/A	N/A	peak	N/A
2415.777	55.45	40.94	96.39	N/A	N/A	AVG	N/A
2750.306	12.62	43.64	56.26	74.00	-17.74	peak	PASS
2757.718	2.84	43.73	46.57	54.00	-7.43	AVG	PASS



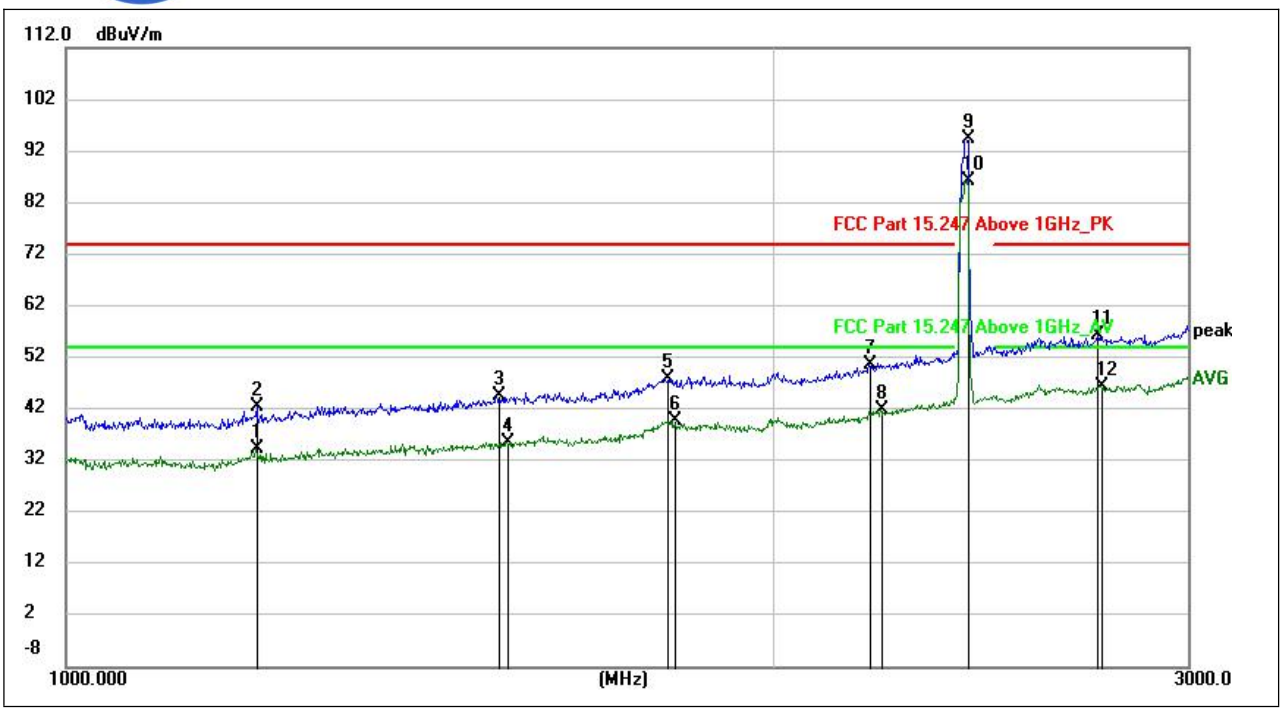
(802.11g _2412MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
5721.000	46.62	-2.66	43.96	74.00	-30.04	peak	PASS
5913.750	36.44	-2.06	34.38	54.00	-19.62	AVG	PASS
8076.000	44.70	0.54	45.24	74.00	-28.76	peak	PASS
8247.000	35.34	1.37	36.71	54.00	-17.29	AVG	PASS
10998.000	43.69	3.44	47.13	74.00	-26.87	peak	PASS
11138.250	34.75	3.16	37.91	54.00	-16.09	AVG	PASS
13350.750	33.08	6.45	39.53	54.00	-14.47	AVG	PASS
13371.750	41.78	6.48	48.26	74.00	-25.74	peak	PASS
15430.500	41.83	10.70	52.53	74.00	-21.47	peak	PASS
15492.750	31.34	11.19	42.53	54.00	-11.47	AVG	PASS
17115.750	41.19	11.98	53.17	74.00	-20.83	peak	PASS
17292.000	31.76	12.84	44.60	54.00	-9.40	AVG	PASS



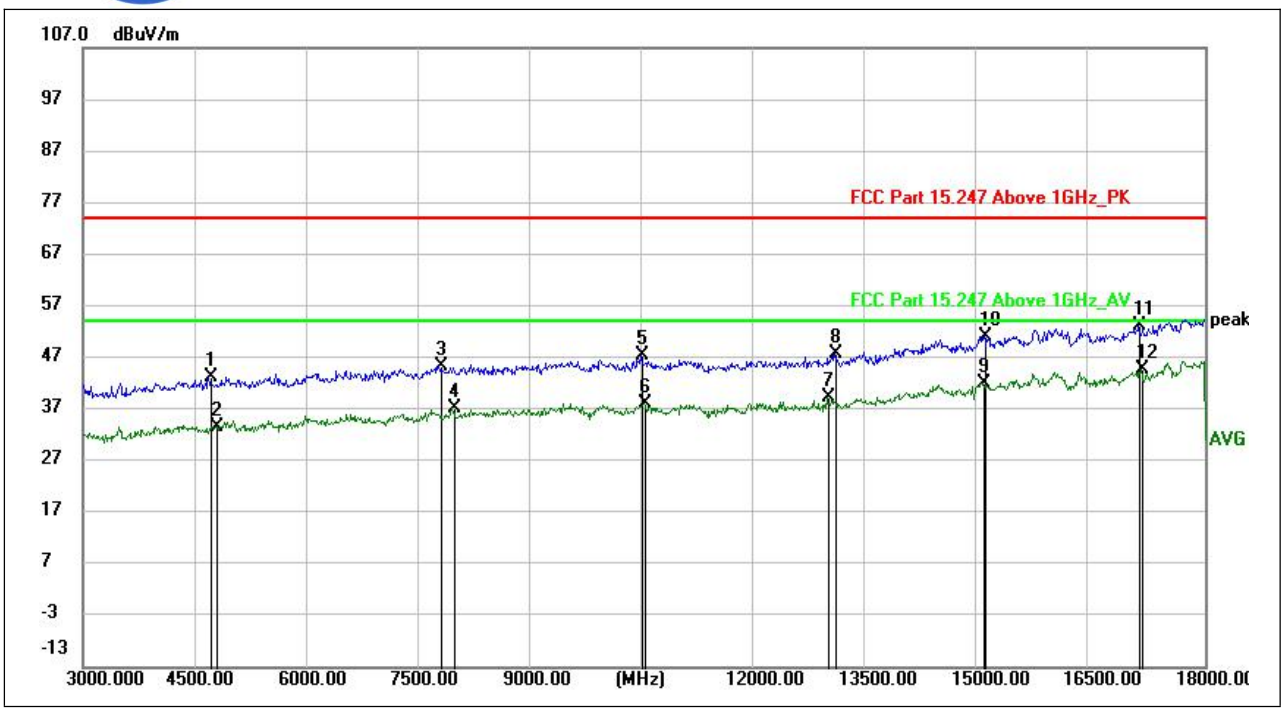
(802.11g _2412MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
36.7146	12.71	13.44	26.15	40.00	-13.85	peak	PASS
61.1423	4.70	14.13	18.83	40.00	-21.17	peak	PASS
95.2932	16.47	13.12	29.59	43.50	-13.91	peak	PASS
141.8760	9.97	11.49	21.46	43.50	-22.04	peak	PASS
201.9234	7.66	13.98	21.64	43.50	-21.86	peak	PASS
499.7751	0.58	21.96	22.54	46.00	-23.46	peak	PASS



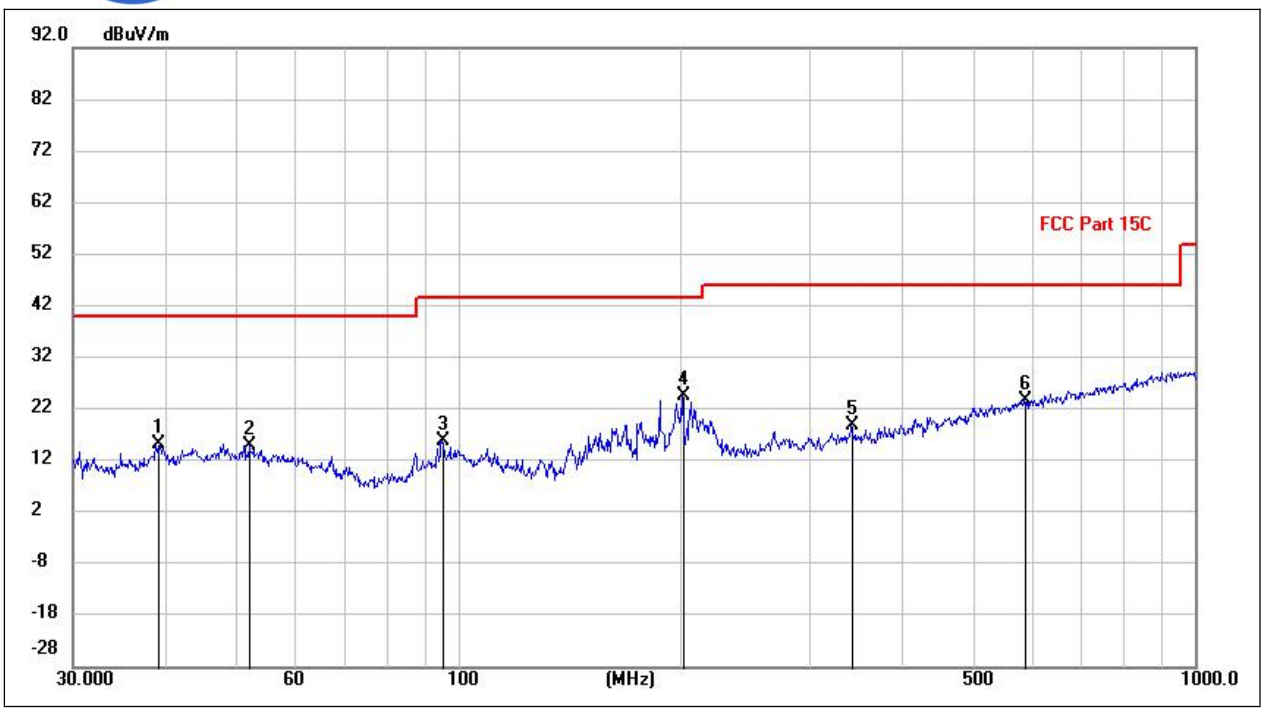
(802.11g _2412MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1205.806	4.04	30.41	34.45	54.00	-19.55	AVG	PASS
1206.071	12.00	30.40	42.40	74.00	-31.60	peak	PASS
1526.734	11.57	32.94	44.51	74.00	-29.49	peak	PASS
1540.211	2.50	33.18	35.68	54.00	-18.32	AVG	PASS
1799.948	11.23	36.78	48.01	74.00	-25.99	peak	PASS
1814.142	3.94	35.82	39.76	54.00	-14.24	AVG	PASS
2197.742	12.17	38.55	50.72	74.00	-23.28	peak	PASS
2220.921	2.79	39.10	41.89	54.00	-12.11	AVG	PASS
2416.308	53.40	40.92	94.32	N/A	N/A	peak	N/A
2417.901	45.49	40.84	86.33	N/A	N/A	AVG	N/A
2747.286	12.93	43.55	56.48	74.00	-17.52	peak	PASS
2753.934	2.68	43.76	46.44	54.00	-7.56	AVG	PASS



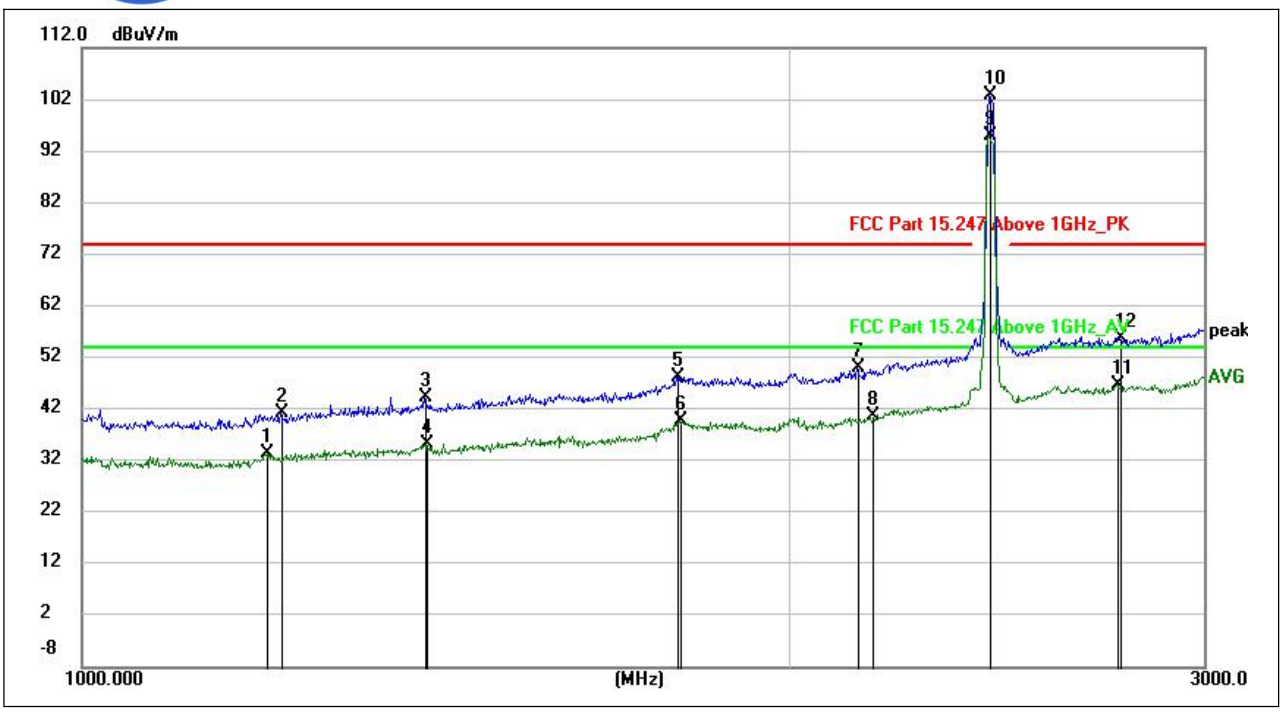
(802.11g _2412MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4696.500	46.59	-3.40	43.19	74.00	-30.81	peak	PASS
4782.000	37.09	-3.38	33.71	54.00	-20.29	AVG	PASS
7772.250	45.00	0.29	45.29	74.00	-28.71	peak	PASS
7959.000	35.73	1.45	37.18	54.00	-16.82	AVG	PASS
10473.750	44.18	3.32	47.50	74.00	-26.50	peak	PASS
10512.750	34.81	3.29	38.10	54.00	-15.90	AVG	PASS
12962.250	33.93	5.38	39.31	54.00	-14.69	AVG	PASS
13065.000	41.29	6.45	47.74	74.00	-26.26	peak	PASS
15036.750	31.61	10.46	42.07	54.00	-11.93	AVG	PASS
15060.000	41.05	10.07	51.12	74.00	-22.88	peak	PASS
17129.250	40.23	12.82	53.05	74.00	-20.95	peak	PASS
17156.250	31.66	13.00	44.66	54.00	-9.34	AVG	PASS



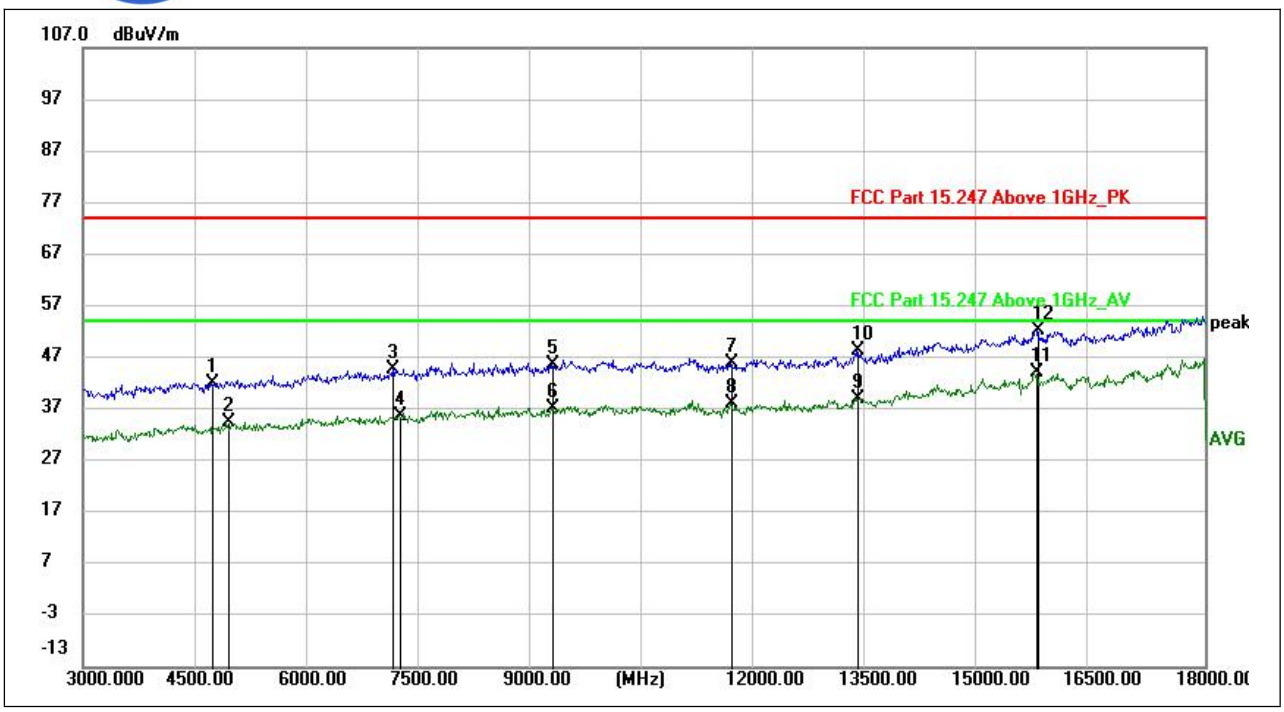
(802.11g _2437MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.0245	1.01	14.23	15.24	40.00	-24.76	peak	PASS
52.0525	-0.35	15.43	15.08	40.00	-24.92	peak	PASS
95.3768	2.83	13.13	15.96	43.50	-27.54	peak	PASS
201.4990	10.73	14.03	24.76	43.50	-18.74	peak	PASS
342.6389	0.60	18.22	18.82	46.00	-27.18	peak	PASS
588.4922	0.59	23.17	23.76	46.00	-22.24	peak	PASS



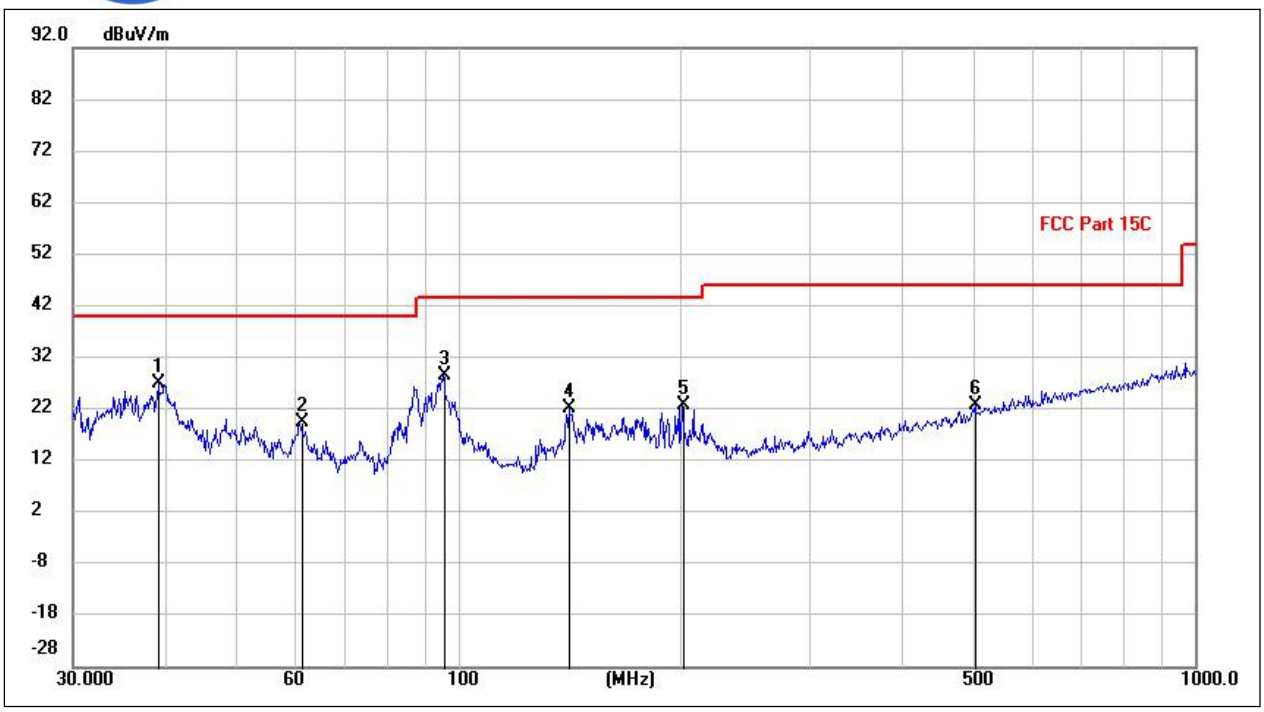
(802.11g _2437MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1199.794	2.80	30.69	33.49	54.00	-20.51	AVG	PASS
1216.117	11.23	29.97	41.20	74.00	-32.80	peak	PASS
1399.046	12.25	31.96	44.21	74.00	-29.79	peak	PASS
1402.124	3.38	31.92	35.30	54.00	-18.70	AVG	PASS
1791.366	12.32	36.01	48.33	74.00	-25.67	peak	PASS
1797.675	3.06	36.61	39.67	54.00	-14.33	AVG	PASS
2138.554	12.36	37.61	49.97	74.00	-24.03	peak	PASS
2167.410	2.86	37.86	40.72	54.00	-13.28	AVG	PASS
2432.288	54.27	40.78	95.05	N/A	N/A	AVG	N/A
2434.159	62.00	40.79	102.79	N/A	N/A	peak	N/A
2757.415	2.99	43.74	46.73	54.00	-7.27	AVG	PASS
2765.607	12.32	43.46	55.78	74.00	-18.22	peak	PASS



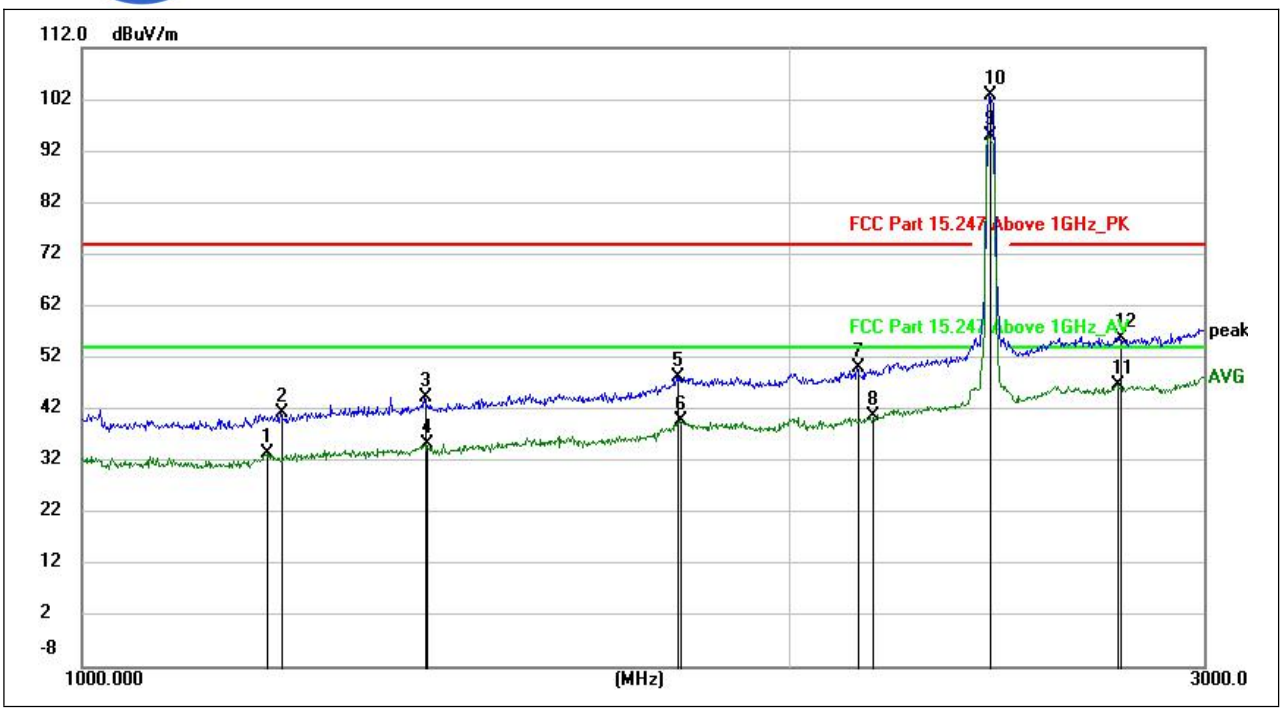
(802.11g _2437MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4740.000	45.30	-3.20	42.10	74.00	-31.90	peak	PASS
4935.750	37.18	-2.83	34.35	54.00	-19.65	AVG	PASS
7153.500	45.29	-0.53	44.76	74.00	-29.24	peak	PASS
7240.500	35.94	-0.34	35.60	54.00	-18.40	AVG	PASS
9270.750	43.24	2.35	45.59	74.00	-28.41	peak	PASS
9276.000	34.98	2.26	37.24	54.00	-16.76	AVG	PASS
11673.750	42.11	3.75	45.86	74.00	-28.14	peak	PASS
11673.750	34.30	3.75	38.05	54.00	-15.95	AVG	PASS
13350.750	32.66	6.45	39.11	54.00	-14.89	AVG	PASS
13361.250	41.82	6.51	48.33	74.00	-25.67	peak	PASS
15739.500	32.88	11.17	44.05	54.00	-9.95	AVG	PASS
15759.000	41.54	10.74	52.28	74.00	-21.72	peak	PASS



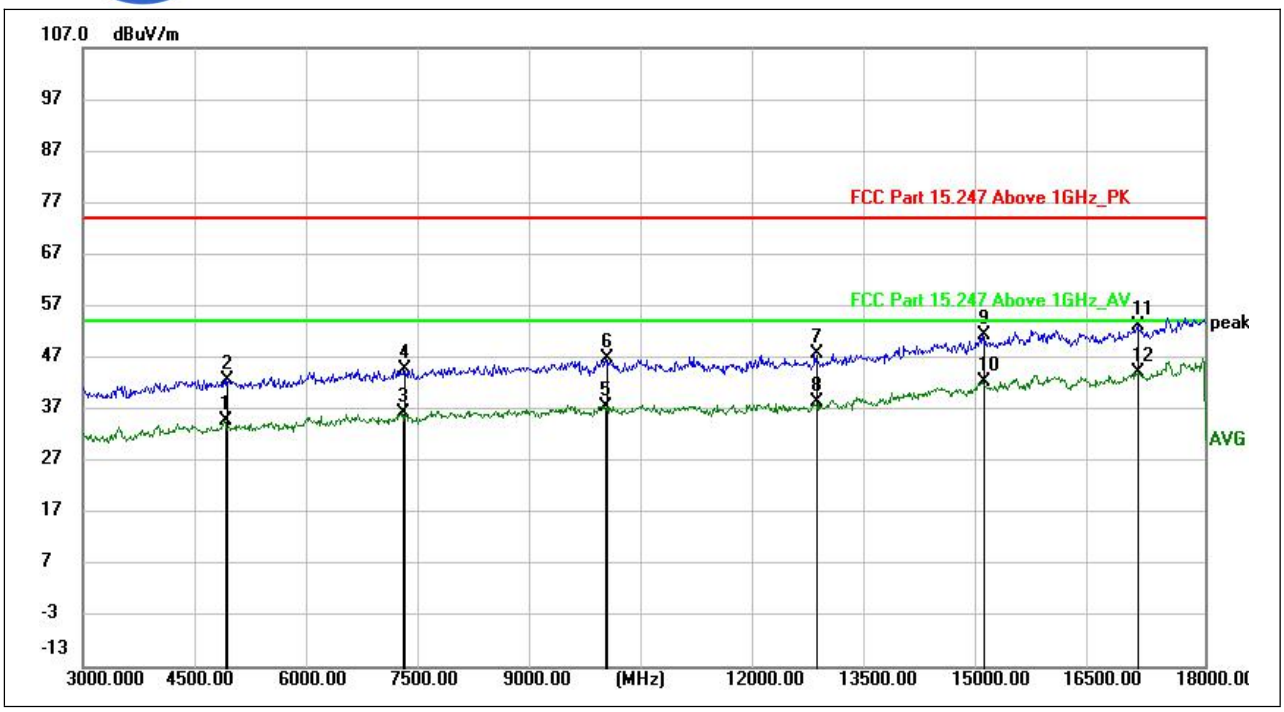
(802.11g _2437MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.2716	12.30	14.60	26.90	40.00	-13.10	peak	PASS
61.1316	5.35	14.14	19.49	40.00	-20.51	peak	PASS
95.6112	15.39	13.16	28.55	43.50	-14.95	peak	PASS
141.4537	10.71	11.62	22.33	43.50	-21.17	peak	PASS
201.6403	8.91	14.02	22.93	43.50	-20.57	peak	PASS
504.1755	0.90	22.00	22.90	46.00	-23.10	peak	PASS



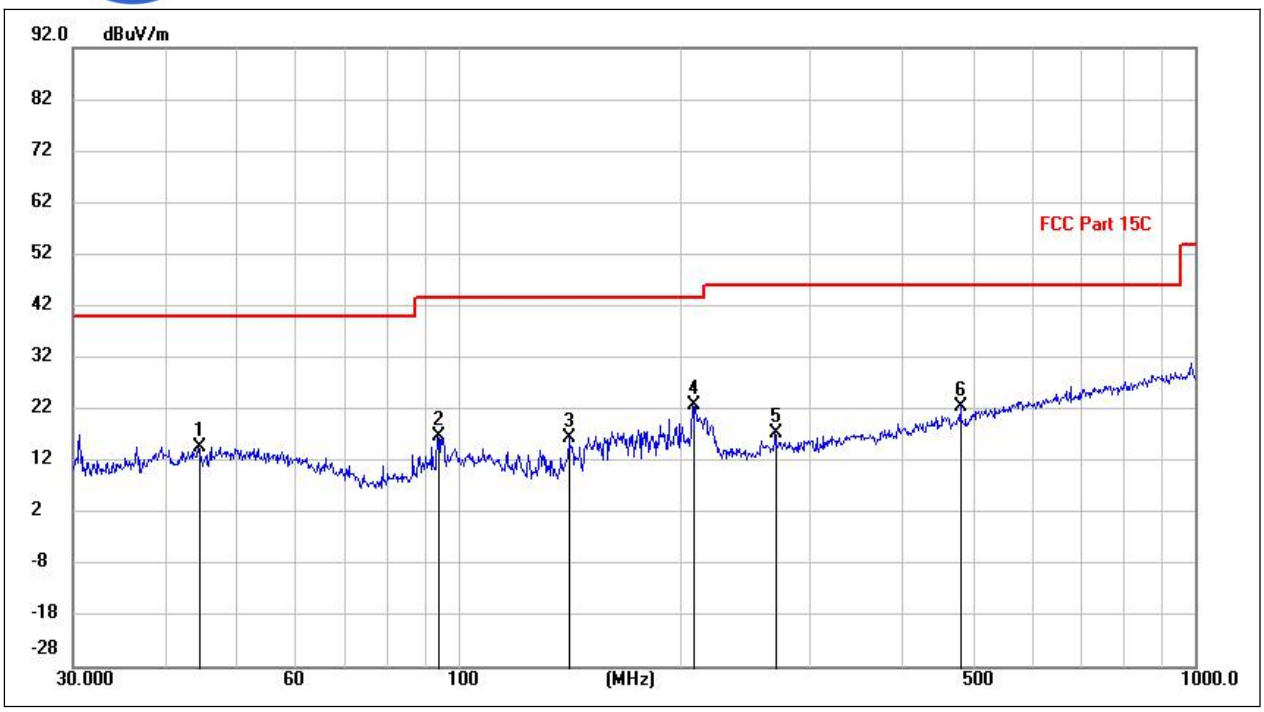
(802.11g _2437MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1199.794	2.80	30.69	33.49	54.00	-20.51	AVG	PASS
1216.117	11.23	29.97	41.20	74.00	-32.80	peak	PASS
1399.046	12.25	31.96	44.21	74.00	-29.79	peak	PASS
1402.124	3.38	31.92	35.30	54.00	-18.70	AVG	PASS
1791.366	12.32	36.01	48.33	74.00	-25.67	peak	PASS
1797.675	3.06	36.61	39.67	54.00	-14.33	AVG	PASS
2138.554	12.36	37.61	49.97	74.00	-24.03	peak	PASS
2167.410	2.86	37.86	40.72	54.00	-13.28	AVG	PASS
2432.288	54.27	40.78	95.05	N/A	N/A	AVG	N/A
2434.159	62.00	40.79	102.79	N/A	N/A	peak	N/A
2757.415	2.99	43.74	46.73	54.00	-7.27	AVG	PASS
2765.607	12.32	43.46	55.78	74.00	-18.22	peak	PASS



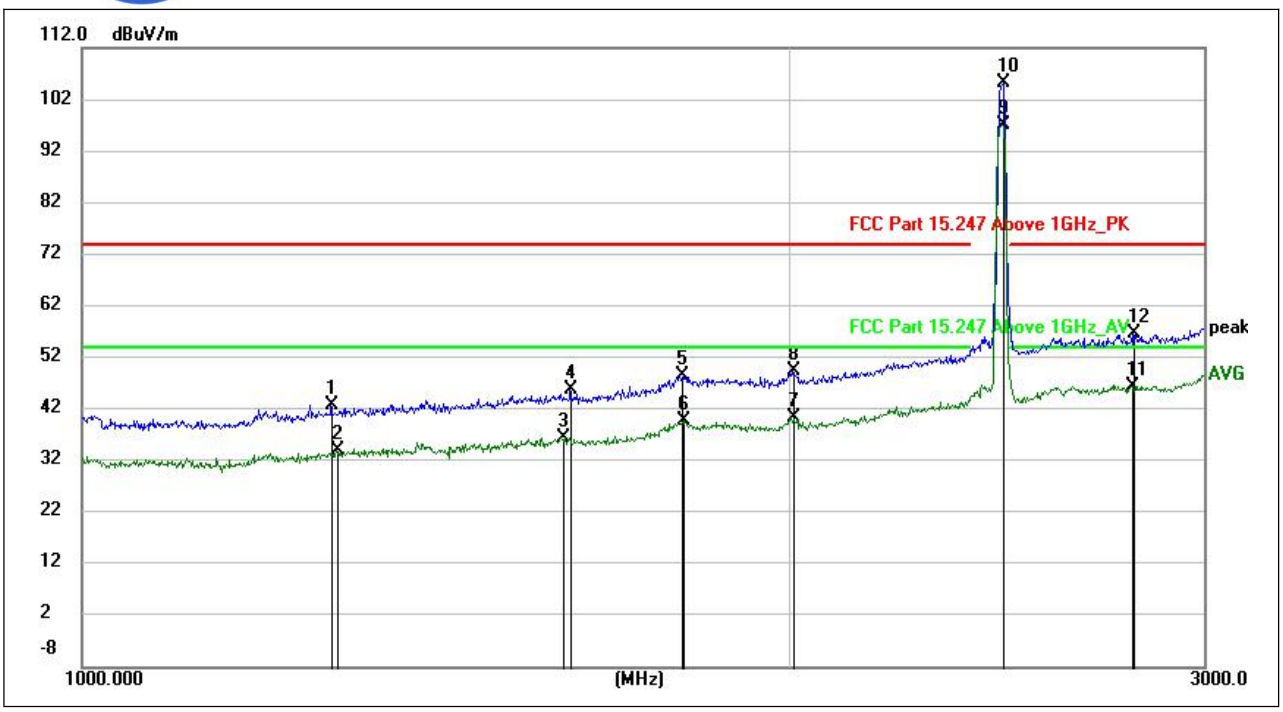
(802.11g _2437MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4914.750	37.60	-2.69	34.91	54.00	-19.09	AVG	PASS
4927.500	45.51	-2.78	42.73	74.00	-31.27	peak	PASS
7272.000	36.74	-0.30	36.44	54.00	-17.56	AVG	PASS
7302.000	45.05	-0.27	44.78	74.00	-29.22	peak	PASS
9977.250	35.05	2.60	37.65	54.00	-16.35	AVG	PASS
10002.000	44.25	2.59	46.84	74.00	-27.16	peak	PASS
12799.500	42.79	4.93	47.72	74.00	-26.28	peak	PASS
12799.500	33.56	4.93	38.49	54.00	-15.51	AVG	PASS
15042.000	40.94	10.37	51.31	74.00	-22.69	peak	PASS
15042.000	32.00	10.37	42.37	54.00	-11.63	AVG	PASS
17109.000	40.42	12.69	53.11	74.00	-20.89	peak	PASS
17109.000	31.33	12.69	44.02	54.00	-9.98	AVG	PASS



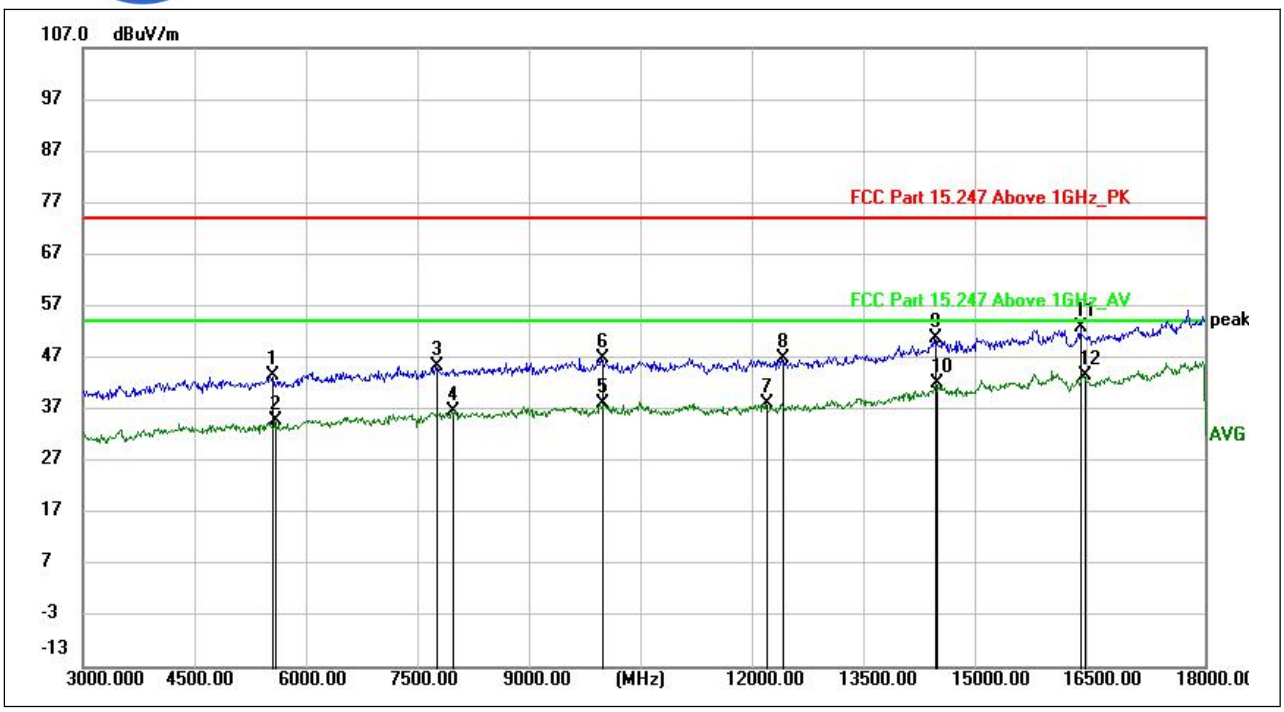
(802.11g _2462MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
44.5712	-0.57	15.36	14.79	40.00	-25.21	peak	PASS
93.9001	3.88	12.89	16.77	43.50	-26.73	peak	PASS
141.4785	4.96	11.61	16.57	43.50	-26.93	peak	PASS
208.2149	9.32	13.40	22.72	43.50	-20.78	peak	PASS
269.8066	2.02	15.28	17.30	46.00	-28.70	peak	PASS
480.9490	1.11	21.42	22.53	46.00	-23.47	peak	PASS



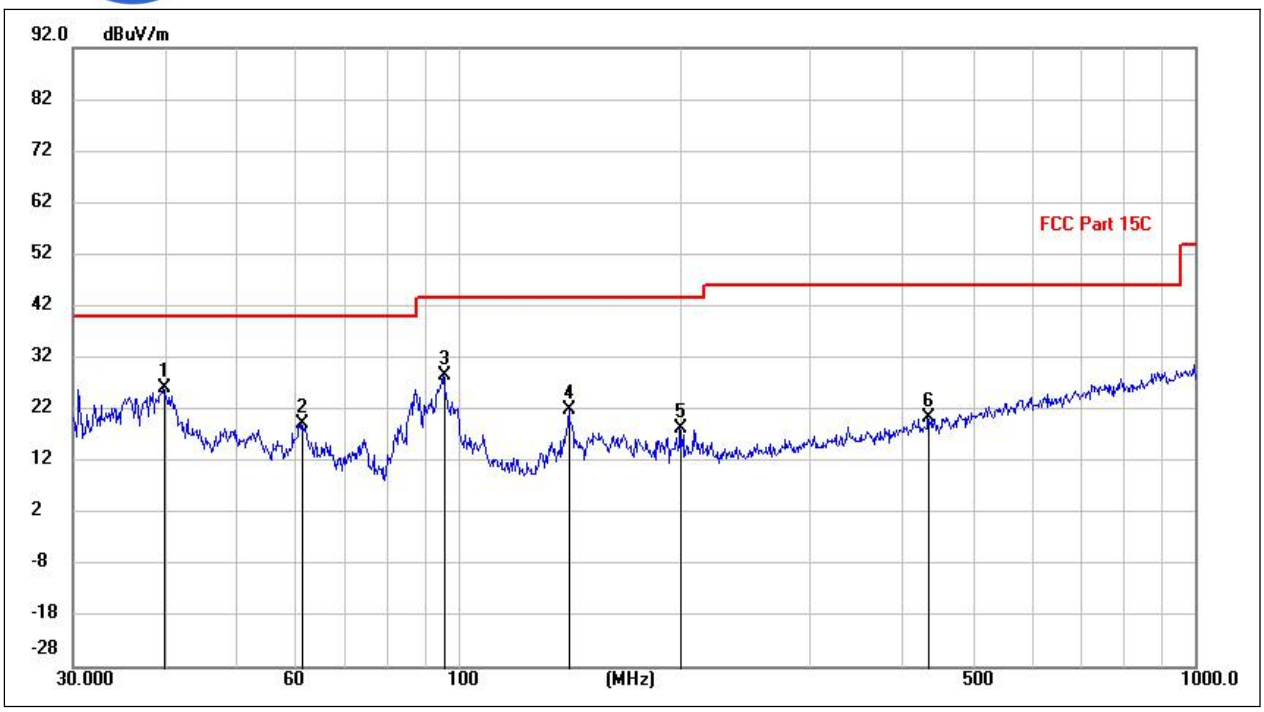
(802.11g _2462MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1276.837	12.17	30.61	42.78	74.00	-31.22	peak	PASS
1284.576	3.28	30.66	33.94	54.00	-20.06	AVG	PASS
1600.412	2.23	34.22	36.45	54.00	-17.55	AVG	PASS
1614.451	12.05	33.74	45.79	74.00	-28.21	peak	PASS
1798.268	11.95	36.66	48.61	74.00	-25.39	peak	PASS
1802.718	3.05	36.59	39.64	54.00	-14.36	AVG	PASS
2005.325	2.96	37.31	40.27	54.00	-13.73	AVG	PASS
2006.537	12.21	37.24	49.45	74.00	-24.55	peak	PASS
2465.514	55.57	41.62	97.19	N/A	N/A	AVG	N/A
2466.326	63.47	41.64	105.11	N/A	N/A	peak	N/A
2797.540	2.03	44.53	46.56	54.00	-7.44	AVG	PASS
2802.000	12.22	44.58	56.80	74.00	-17.20	peak	PASS



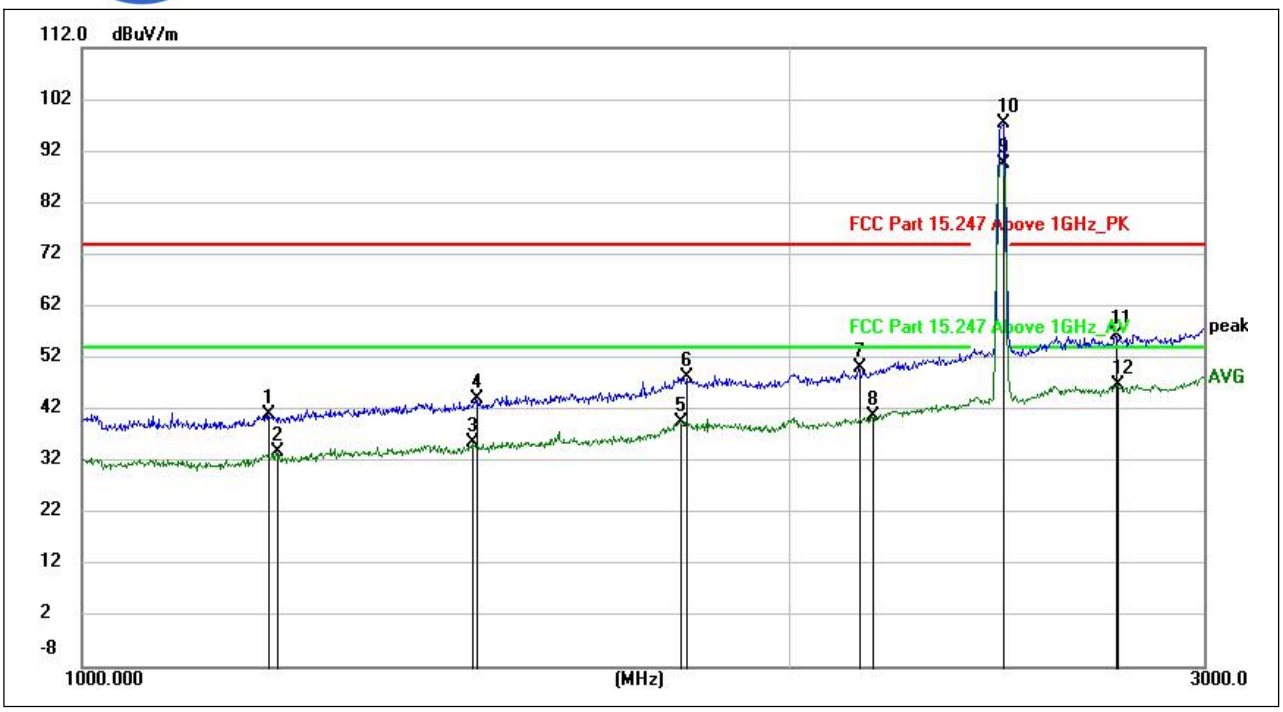
(802.11g _2462MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
5520.750	46.46	-2.86	43.60	74.00	-30.40	peak	PASS
5574.750	37.32	-2.59	34.73	54.00	-19.27	AVG	PASS
7737.750	45.40	0.09	45.49	74.00	-28.51	peak	PASS
7938.750	35.52	1.08	36.60	54.00	-17.40	AVG	PASS
9931.500	35.86	2.10	37.96	54.00	-16.04	AVG	PASS
9939.000	44.82	2.09	46.91	74.00	-27.09	peak	PASS
12140.250	34.12	3.91	38.03	54.00	-15.97	AVG	PASS
12351.000	42.29	4.52	46.81	74.00	-27.19	peak	PASS
14395.500	41.33	9.40	50.73	74.00	-23.27	peak	PASS
14414.250	32.70	9.31	42.01	54.00	-11.99	AVG	PASS
16337.250	41.21	11.67	52.88	74.00	-21.12	peak	PASS
16394.250	32.43	11.02	43.45	54.00	-10.55	AVG	PASS



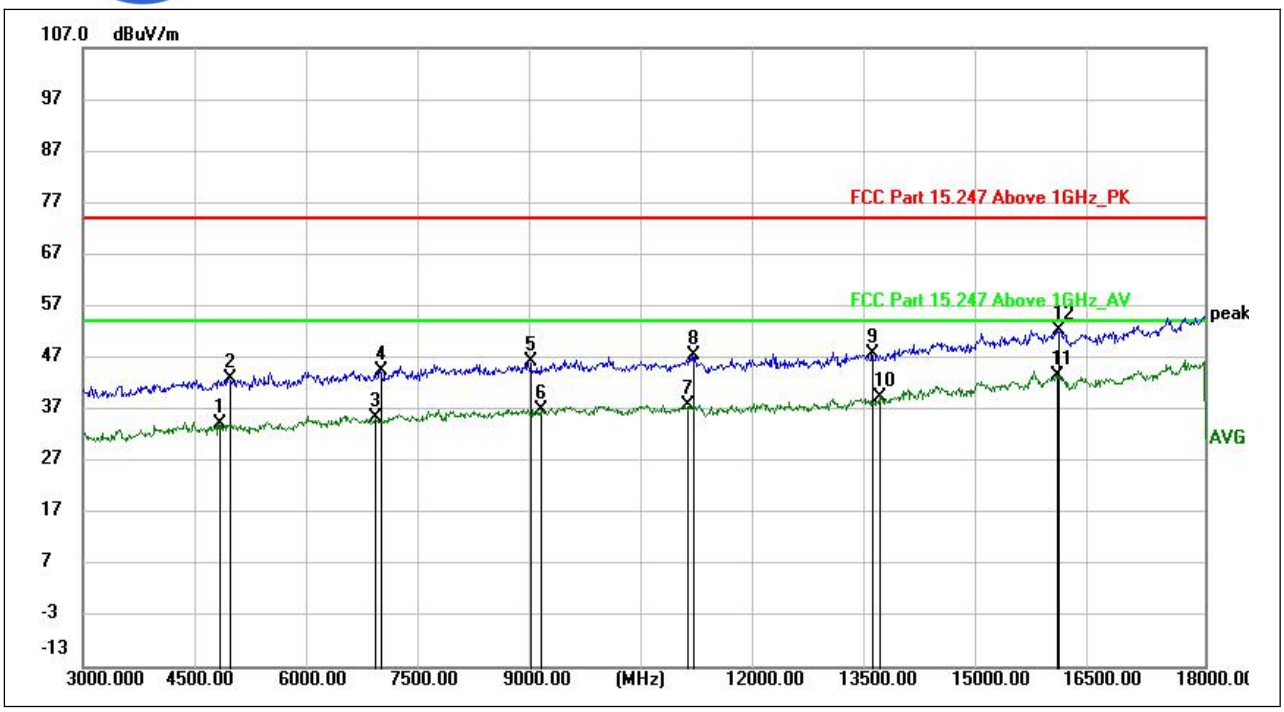
(802.11g _2462MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.9662	10.62	15.65	26.27	40.00	-13.73	peak	PASS
61.1745	5.18	14.11	19.29	40.00	-20.71	peak	PASS
95.5442	15.43	13.15	28.58	43.50	-14.92	peak	PASS
141.5033	10.34	11.60	21.94	43.50	-21.56	peak	PASS
200.6177	3.98	14.22	18.20	43.50	-25.30	peak	PASS
434.9793	0.46	19.84	20.30	46.00	-25.70	peak	PASS



(802.11g _2462MHz, Antenna Vertical , 1GHz to 3GHz)

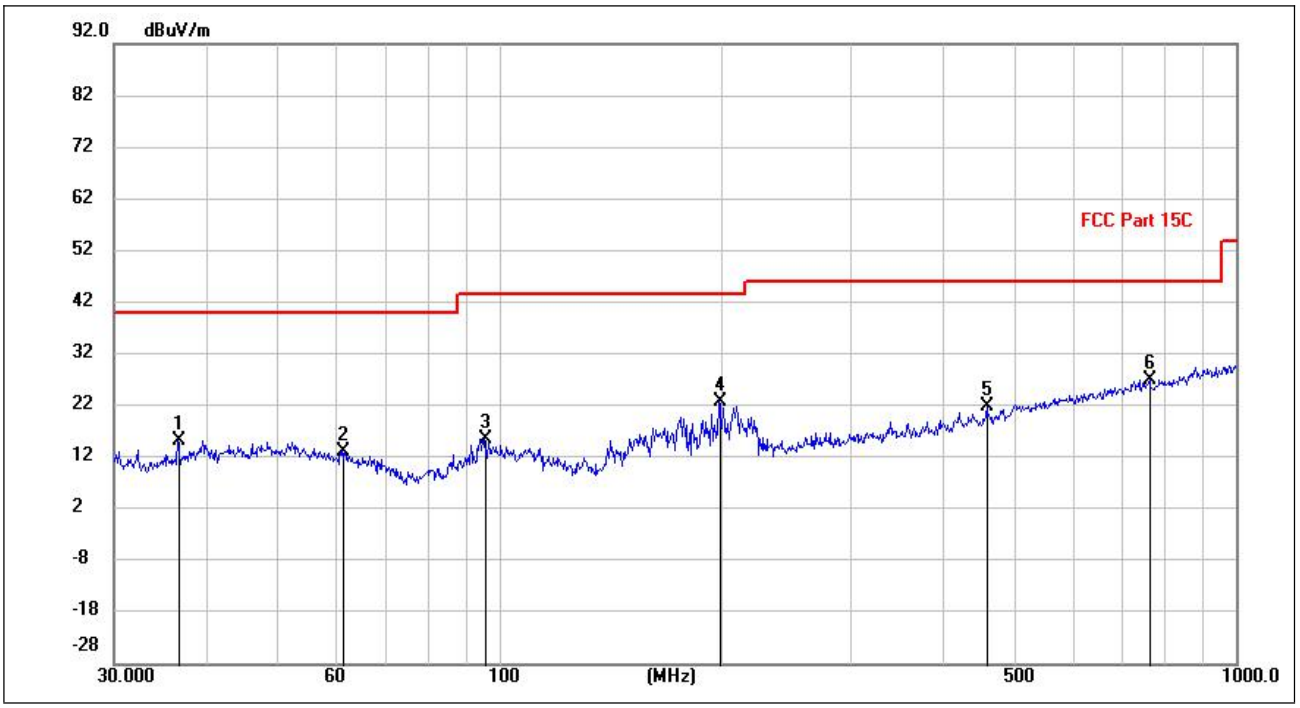
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1200.124	10.20	30.69	40.89	74.00	-33.11	peak	PASS
1210.385	3.69	30.21	33.90	54.00	-20.10	AVG	PASS
1466.724	3.15	32.30	35.45	54.00	-18.55	AVG	PASS
1471.566	11.49	32.42	43.91	74.00	-30.09	peak	PASS
1796.392	2.90	36.52	39.42	54.00	-14.58	AVG	PASS
1806.187	11.96	36.36	48.32	74.00	-25.68	peak	PASS
2141.610	12.47	37.62	50.09	74.00	-23.91	peak	PASS
2168.244	2.70	37.87	40.57	54.00	-13.43	AVG	PASS
2464.972	48.05	41.59	89.64	N/A	N/A	AVG	N/A
2465.514	55.64	41.62	97.26	N/A	N/A	peak	N/A
2753.480	12.62	43.74	56.36	74.00	-17.64	peak	PASS
2755.598	2.83	43.81	46.64	54.00	-7.36	AVG	PASS



(802.11g _2462MHz, Antenna Vertical, 3GHz to 18GHz)

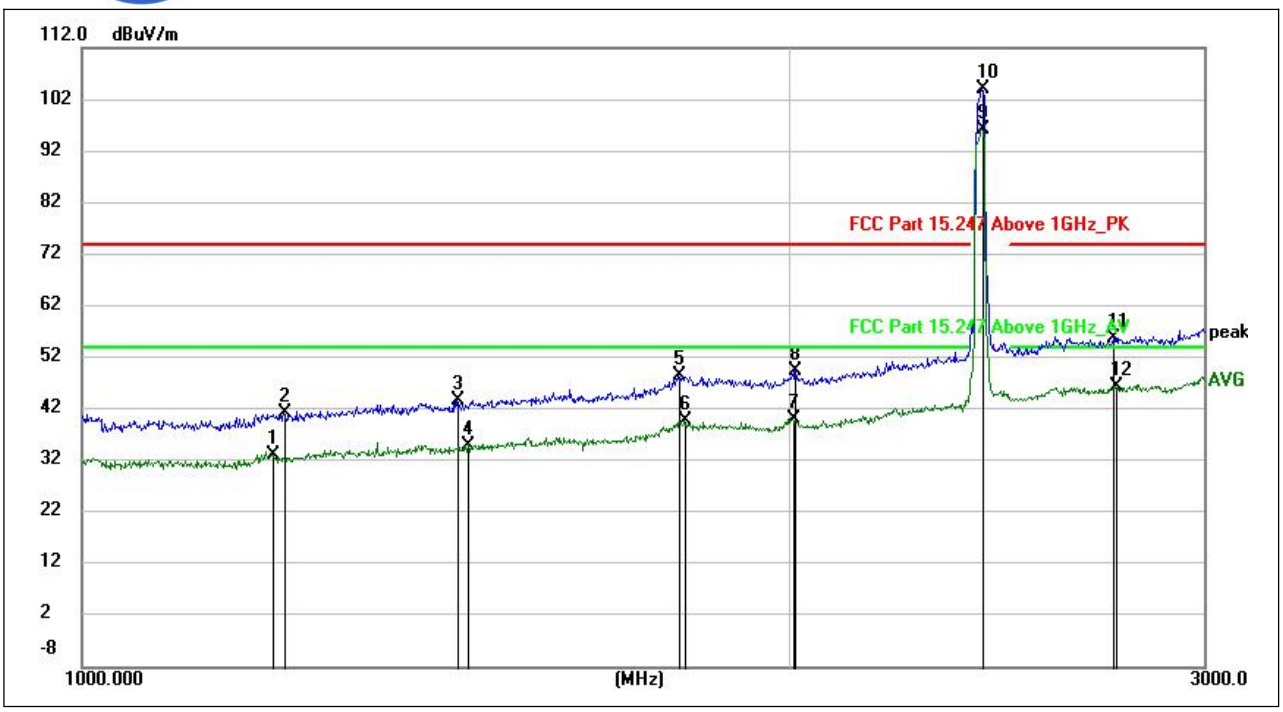
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4816.500	37.52	-3.27	34.25	54.00	-19.75	AVG	PASS
4957.500	45.69	-2.90	42.79	74.00	-31.21	peak	PASS
6915.000	36.26	-0.77	35.49	54.00	-18.51	AVG	PASS
6987.750	45.02	-0.69	44.33	74.00	-29.67	peak	PASS
8975.250	44.80	1.32	46.12	74.00	-27.88	peak	PASS
9134.250	35.61	1.38	36.99	54.00	-17.01	AVG	PASS
11075.250	34.59	3.20	37.79	54.00	-16.21	AVG	PASS
11156.250	44.46	3.08	47.54	74.00	-26.46	peak	PASS
13552.500	41.20	6.42	47.62	74.00	-26.38	peak	PASS
13654.500	32.21	7.25	39.46	54.00	-14.54	AVG	PASS
16022.250	31.90	11.76	43.66	54.00	-10.34	AVG	PASS
16043.250	40.69	11.62	52.31	74.00	-21.69	peak	PASS

802.11n-20MHz Test mode



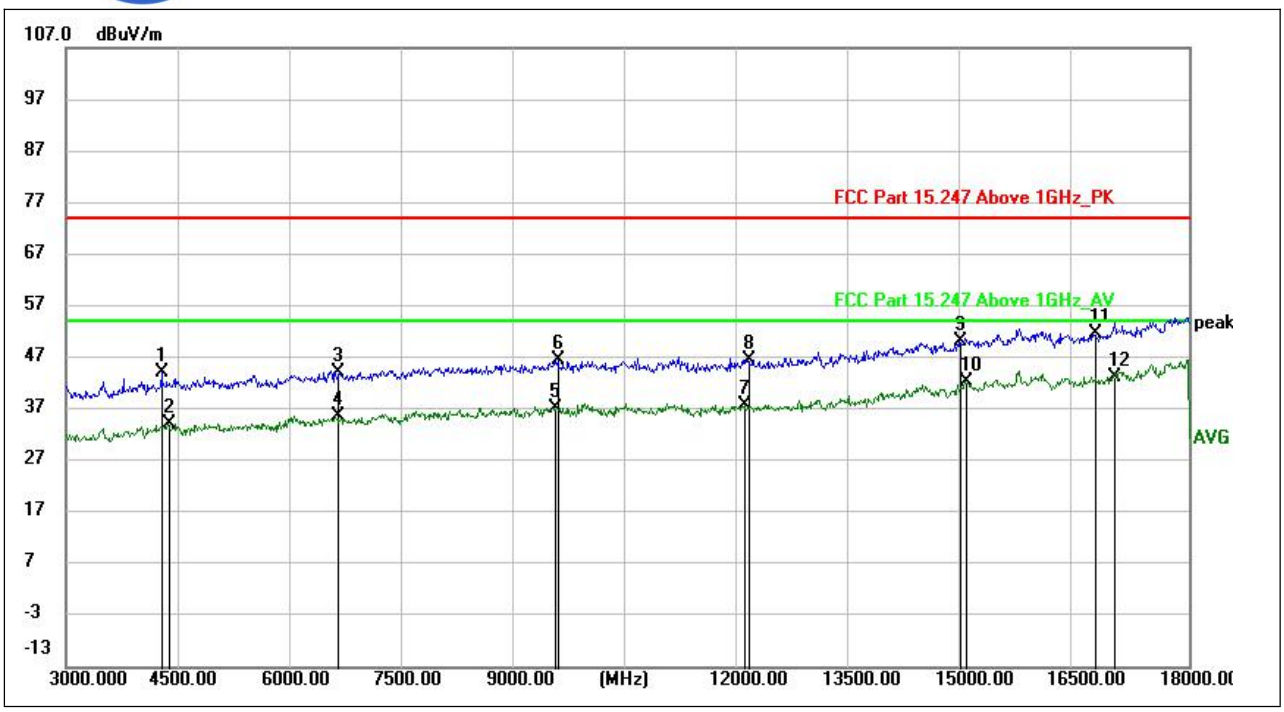
(802.11n_20M _2412MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
36.7597	1.86	13.46	15.32	40.00	-24.68	peak	PASS
61.2496	-0.82	14.07	13.25	40.00	-26.75	peak	PASS
95.5274	2.56	13.15	15.71	43.50	-27.79	peak	PASS
199.1109	8.64	14.21	22.85	43.50	-20.65	peak	PASS
460.4041	0.77	21.13	21.90	46.00	-24.10	peak	PASS
765.6544	0.80	26.22	27.02	46.00	-18.98	peak	PASS



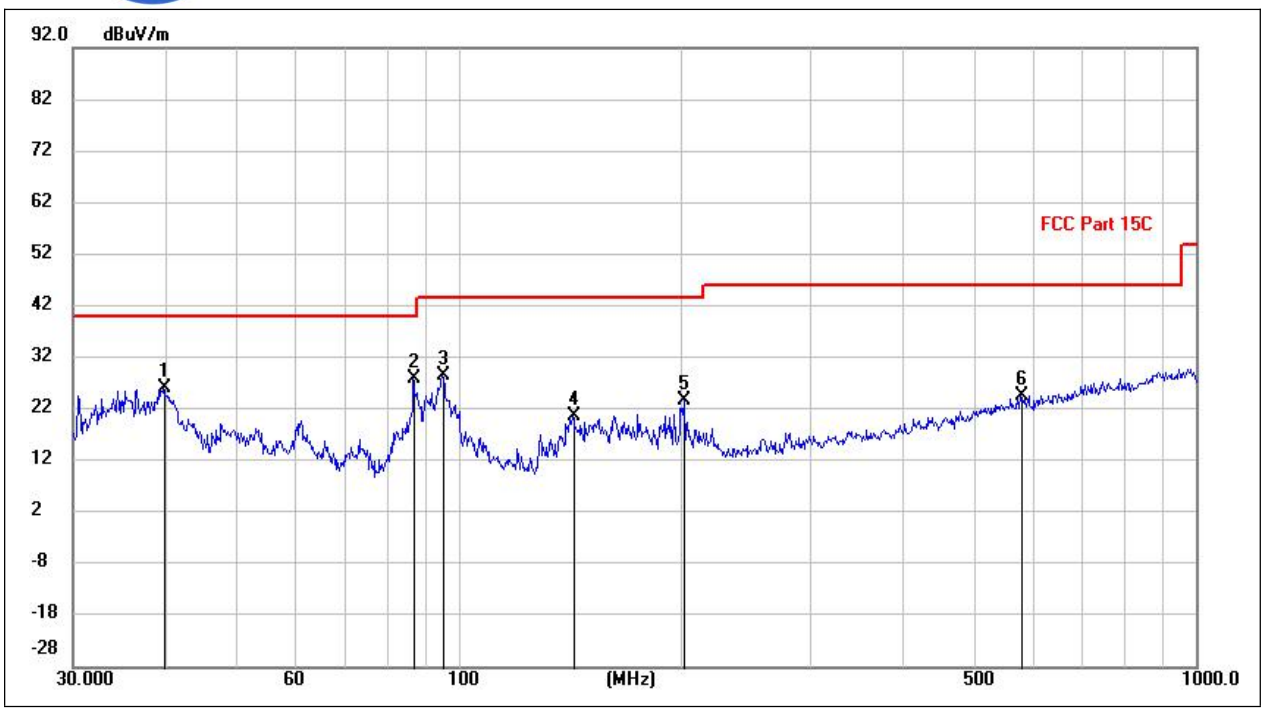
(802.11n_20M _2412MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1206.071	2.78	30.40	33.18	54.00	-20.82	AVG	PASS
1219.662	11.47	29.82	41.29	74.00	-32.71	peak	PASS
1444.496	11.87	31.70	43.57	74.00	-30.43	peak	PASS
1458.048	2.91	32.08	34.99	54.00	-19.01	AVG	PASS
1795.109	12.25	36.39	48.64	74.00	-25.36	peak	PASS
1805.394	3.51	36.42	39.93	54.00	-14.07	AVG	PASS
2007.419	2.87	37.20	40.07	54.00	-13.93	AVG	PASS
2010.398	12.54	37.03	49.57	74.00	-24.43	peak	PASS
2414.848	55.15	40.99	96.14	N/A	N/A	AVG	N/A
2415.909	63.21	40.94	104.15	N/A	N/A	peak	N/A
2746.682	12.26	43.53	55.79	74.00	-18.21	peak	PASS
2752.875	2.66	43.72	46.38	54.00	-7.62	AVG	PASS



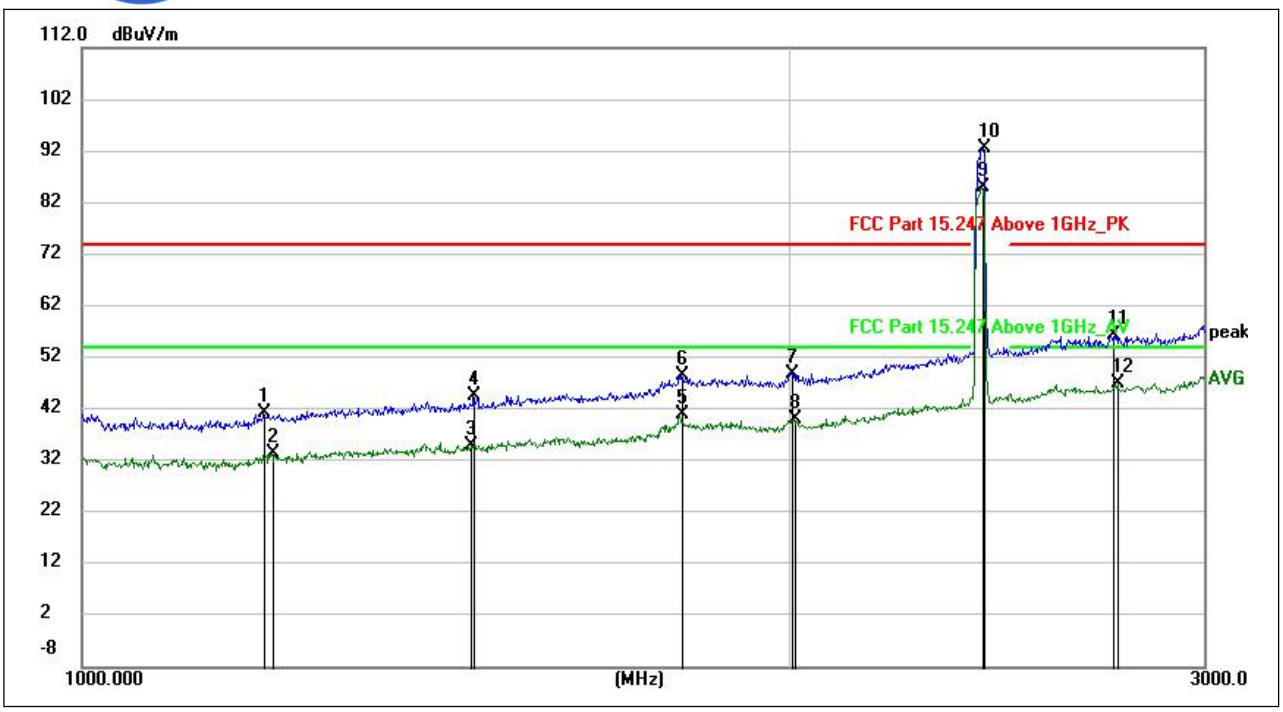
(802.11n_20M _2412MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4287.000	47.40	-3.37	44.03	74.00	-29.97	peak	PASS
4373.250	37.59	-3.40	34.19	54.00	-19.81	AVG	PASS
6615.750	44.93	-0.80	44.13	74.00	-29.87	peak	PASS
6615.750	36.42	-0.80	35.62	54.00	-18.38	AVG	PASS
9532.500	35.29	2.00	37.29	54.00	-16.71	AVG	PASS
9576.000	44.41	2.20	46.61	74.00	-27.39	peak	PASS
12067.500	33.65	4.24	37.89	54.00	-16.11	AVG	PASS
12112.500	42.76	3.87	46.63	74.00	-27.37	peak	PASS
14952.000	40.41	9.66	50.07	74.00	-23.93	peak	PASS
15021.000	31.63	10.82	42.45	54.00	-11.55	AVG	PASS
16748.250	39.88	11.79	51.67	74.00	-22.33	peak	PASS
17008.500	32.06	11.21	43.27	54.00	-10.73	AVG	PASS



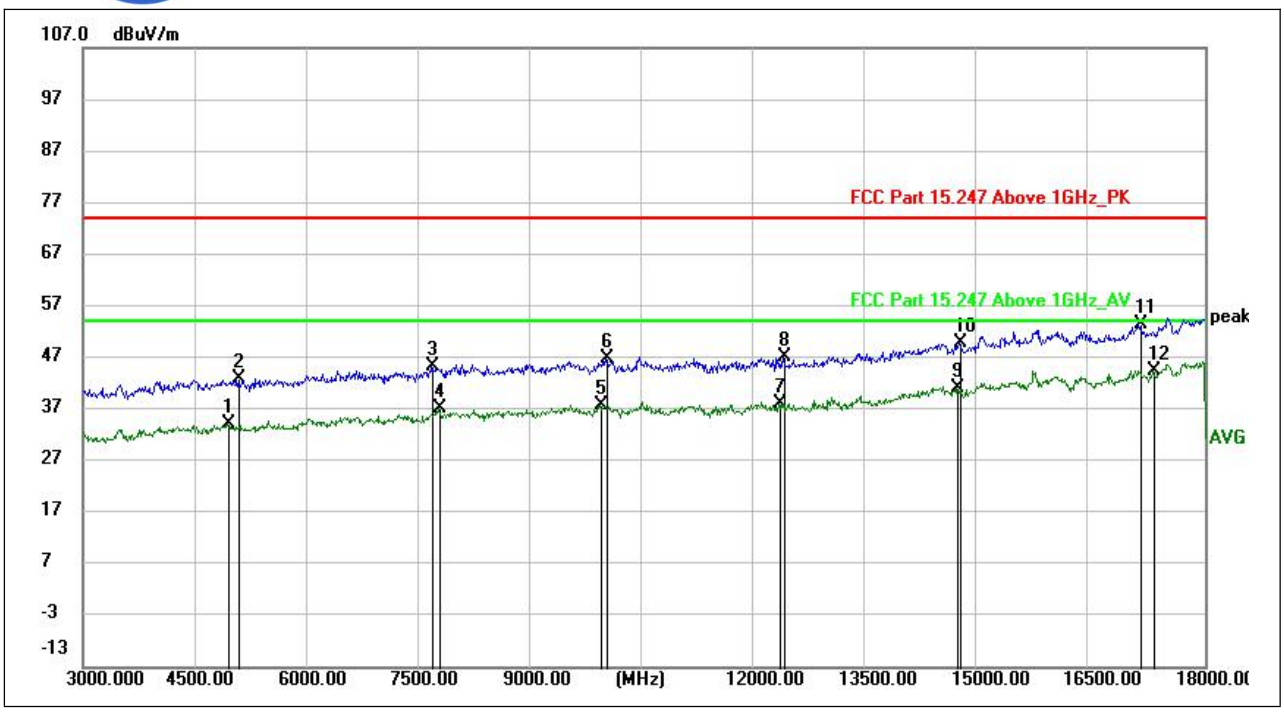
(802.11n_20M _2412MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.9452	10.35	15.62	25.97	40.00	-14.03	peak	PASS
87.0964	16.71	11.28	27.99	40.00	-12.01	peak	PASS
95.2932	15.33	13.12	28.45	43.50	-15.05	peak	PASS
143.0248	9.63	11.00	20.63	43.50	-22.87	peak	PASS
202.3841	9.77	13.92	23.69	43.50	-19.81	peak	PASS
579.6854	1.62	23.07	24.69	46.00	-21.31	peak	PASS



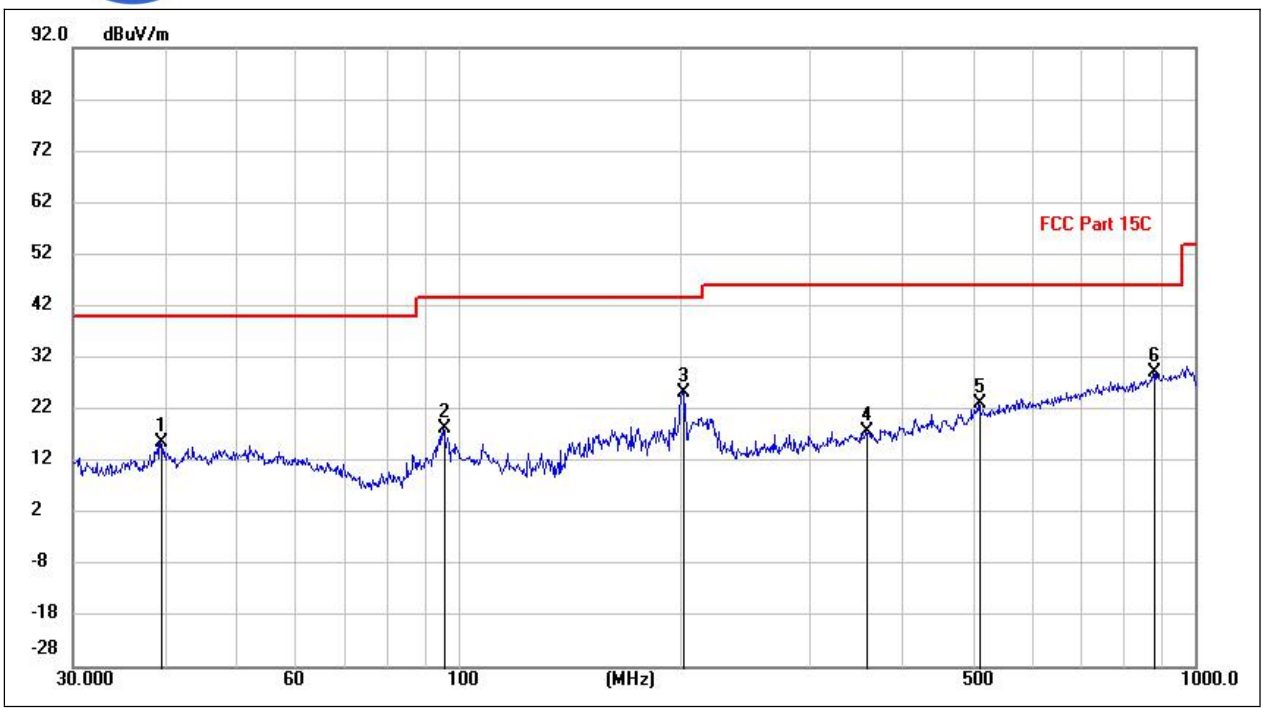
(802.11n_20M _2412MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1195.649	11.00	30.39	41.39	74.00	-32.61	peak	PASS
1205.542	2.98	30.42	33.40	54.00	-20.60	AVG	PASS
1462.621	2.86	32.20	35.06	54.00	-18.94	AVG	PASS
1468.255	12.25	32.34	44.59	74.00	-29.41	peak	PASS
1798.465	4.22	36.67	40.89	54.00	-13.11	AVG	PASS
1799.849	11.62	36.77	48.39	74.00	-25.61	peak	PASS
2002.683	11.64	37.28	48.92	74.00	-25.08	peak	PASS
2009.626	3.05	37.08	40.13	54.00	-13.87	AVG	PASS
2415.113	43.91	40.98	84.89	N/A	N/A	AVG	N/A
2416.573	51.74	40.91	92.65	N/A	N/A	peak	N/A
2742.762	12.85	43.41	56.26	74.00	-17.74	peak	PASS
2757.870	3.23	43.72	46.95	54.00	-7.05	AVG	PASS



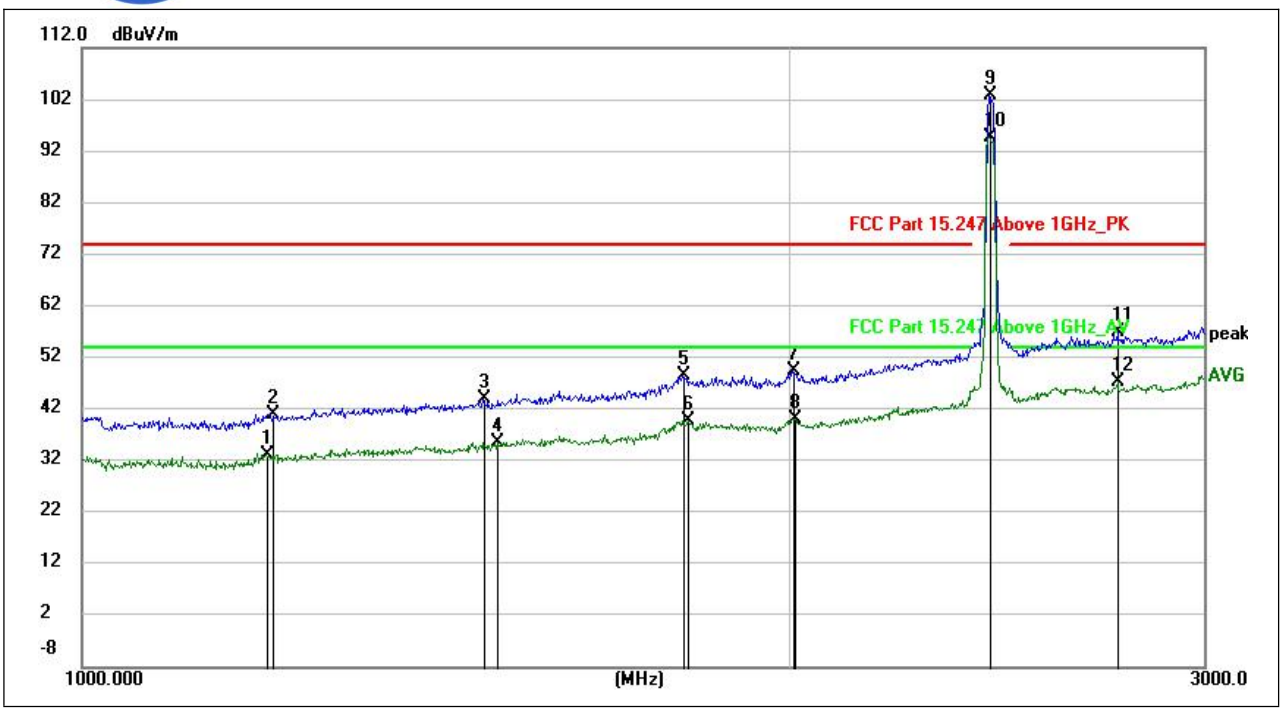
(802.11n_20M _2412MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4947.000	36.98	-2.91	34.07	54.00	-19.93	AVG	PASS
5076.000	45.84	-2.98	42.86	74.00	-31.14	peak	PASS
7674.000	44.69	0.69	45.38	74.00	-28.62	peak	PASS
7760.250	37.10	0.22	37.32	54.00	-16.68	AVG	PASS
9927.000	35.28	2.56	37.84	54.00	-16.16	AVG	PASS
10003.500	44.25	2.59	46.84	74.00	-27.16	peak	PASS
12323.250	33.69	4.32	38.01	54.00	-15.99	AVG	PASS
12378.750	42.86	4.42	47.28	74.00	-26.72	peak	PASS
14700.000	31.91	9.24	41.15	54.00	-12.85	AVG	PASS
14720.250	40.27	9.46	49.73	74.00	-24.27	peak	PASS
17130.750	40.62	12.83	53.45	74.00	-20.55	peak	PASS
17310.750	31.50	13.02	44.52	54.00	-9.48	AVG	PASS



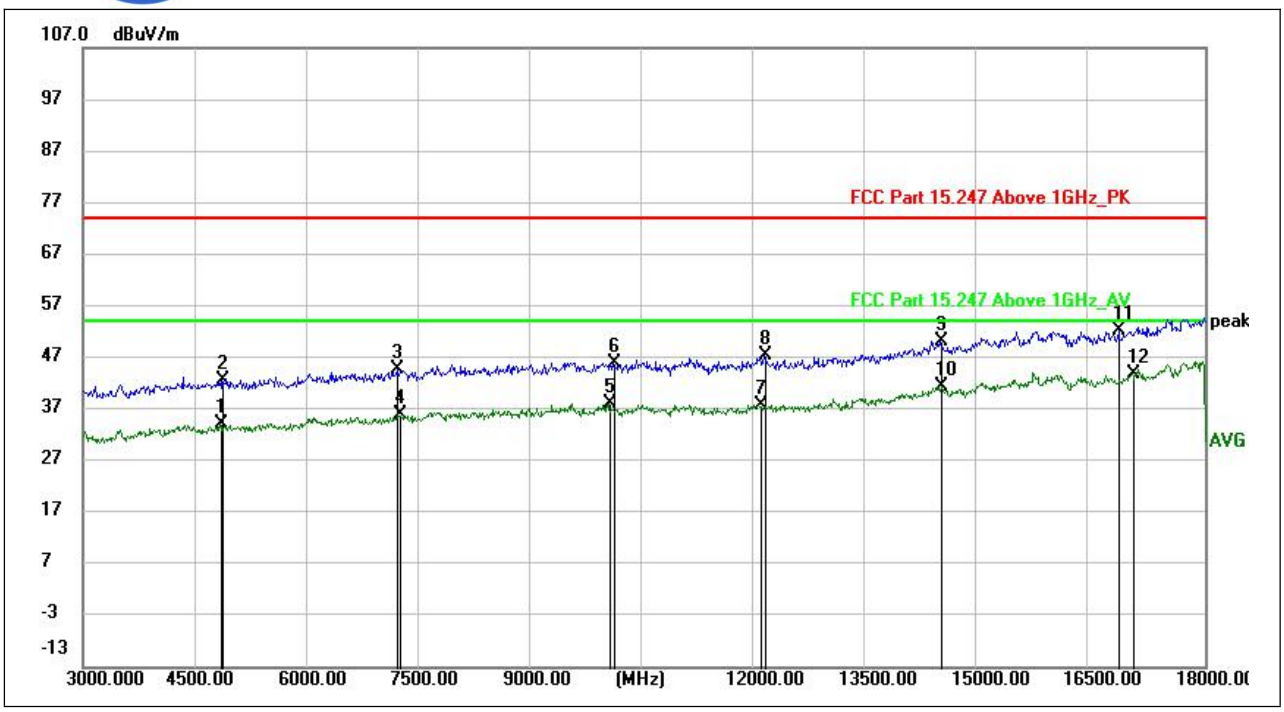
(802.11n_20M _2437MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.4441	0.68	14.86	15.54	40.00	-24.46	peak	PASS
95.5442	5.16	13.15	18.31	43.50	-25.19	peak	PASS
201.7818	11.21	14.00	25.21	43.50	-18.29	peak	PASS
358.1170	-0.66	18.43	17.77	46.00	-28.23	peak	PASS
509.5966	1.02	22.00	23.02	46.00	-22.98	peak	PASS
878.4755	1.60	27.64	29.24	46.00	-16.76	peak	PASS



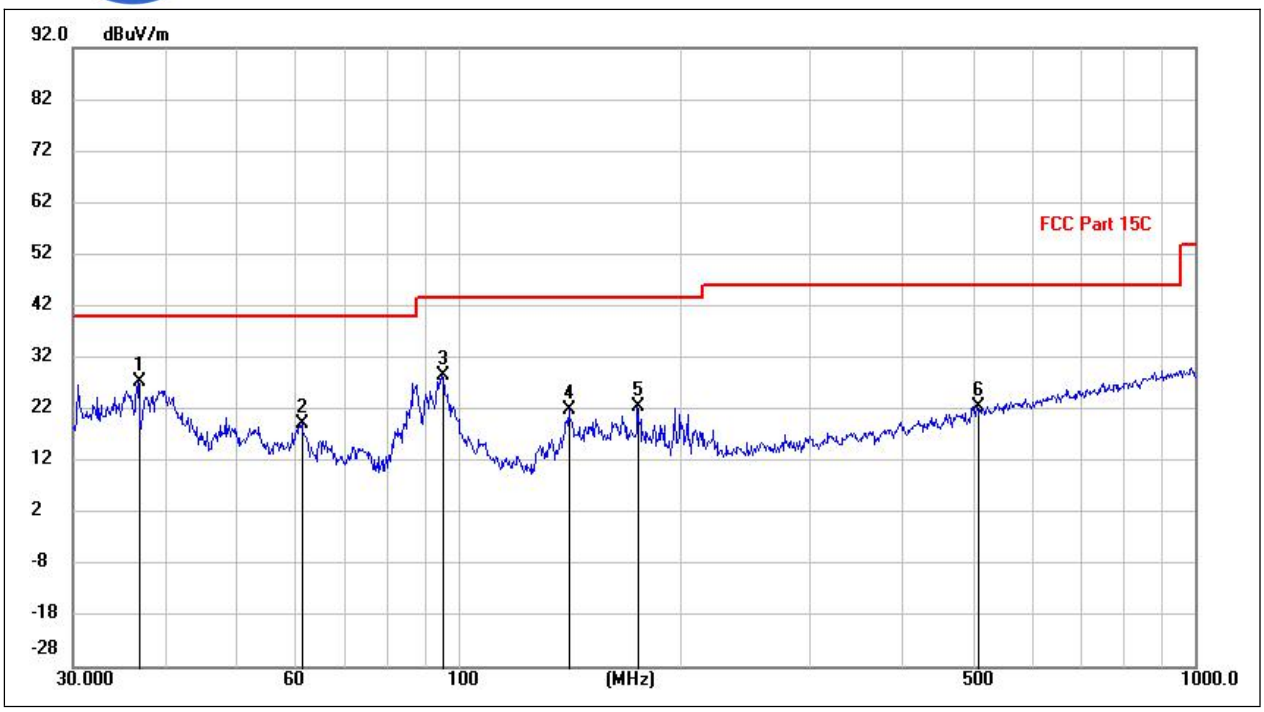
(802.11n_20M _2437MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1197.884	2.64	30.55	33.19	54.00	-20.81	AVG	PASS
1204.086	10.53	30.50	41.03	74.00	-32.97	peak	PASS
1483.008	11.57	32.34	43.91	74.00	-30.09	peak	PASS
1502.028	3.15	32.51	35.66	54.00	-18.34	AVG	PASS
1802.322	11.98	36.63	48.61	74.00	-25.39	peak	PASS
1811.055	3.76	36.03	39.79	54.00	-14.21	AVG	PASS
2006.096	12.07	37.27	49.34	74.00	-24.66	peak	PASS
2009.074	3.04	37.11	40.15	54.00	-13.85	AVG	PASS
2433.357	61.91	40.79	102.70	N/A	N/A	peak	N/A
2433.357	53.97	40.79	94.76	N/A	N/A	AVG	N/A
2756.810	13.35	43.76	57.11	74.00	-16.89	peak	PASS
2756.810	3.46	43.76	47.22	54.00	-6.78	AVG	PASS



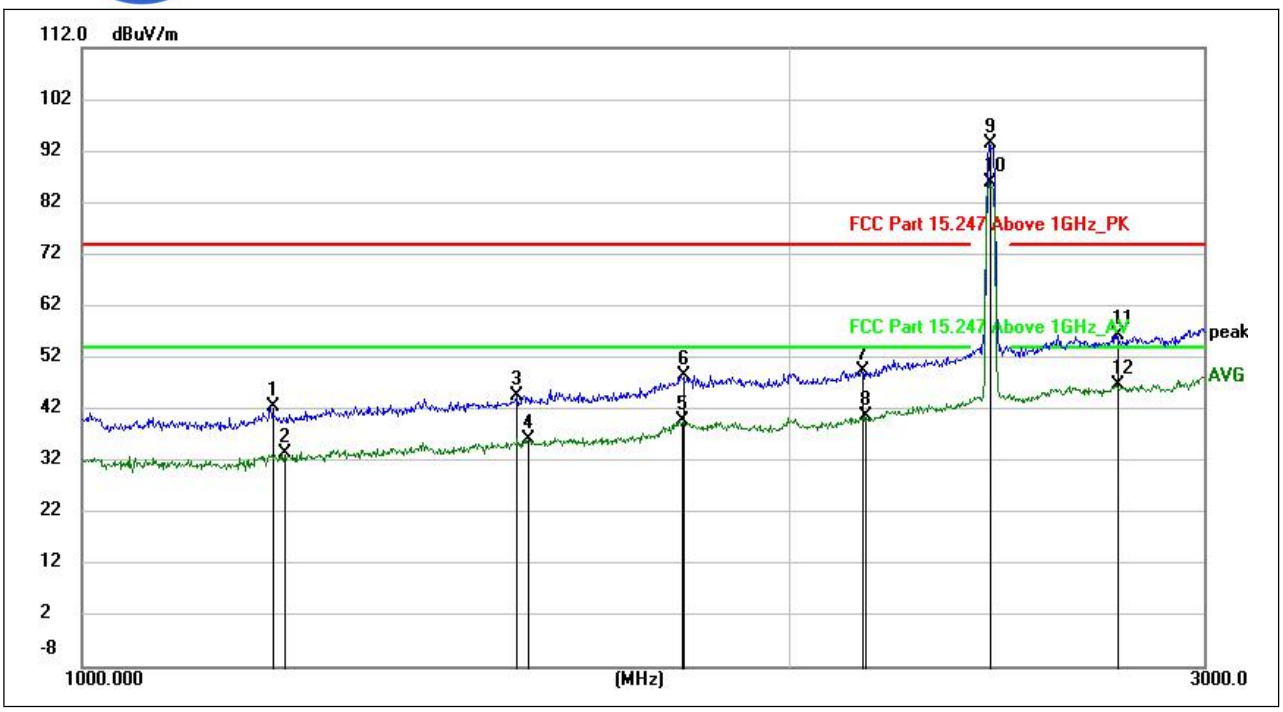
(802.11n_20M _2437MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4843.500	37.19	-3.07	34.12	54.00	-19.88	AVG	PASS
4866.000	45.57	-2.92	42.65	74.00	-31.35	peak	PASS
7213.500	45.07	-0.40	44.67	74.00	-29.33	peak	PASS
7233.750	36.31	-0.36	35.95	54.00	-18.05	AVG	PASS
10037.250	36.12	1.84	37.96	54.00	-16.04	AVG	PASS
10096.500	43.74	2.34	46.08	74.00	-27.92	peak	PASS
12050.250	33.49	4.38	37.87	54.00	-16.13	AVG	PASS
12114.750	43.54	3.88	47.42	74.00	-26.58	peak	PASS
14474.250	42.13	7.98	50.11	74.00	-23.89	peak	PASS
14484.750	33.83	7.71	41.54	54.00	-12.46	AVG	PASS
16854.750	40.56	11.66	52.22	74.00	-21.78	peak	PASS
17040.000	32.43	11.47	43.90	54.00	-10.10	AVG	PASS



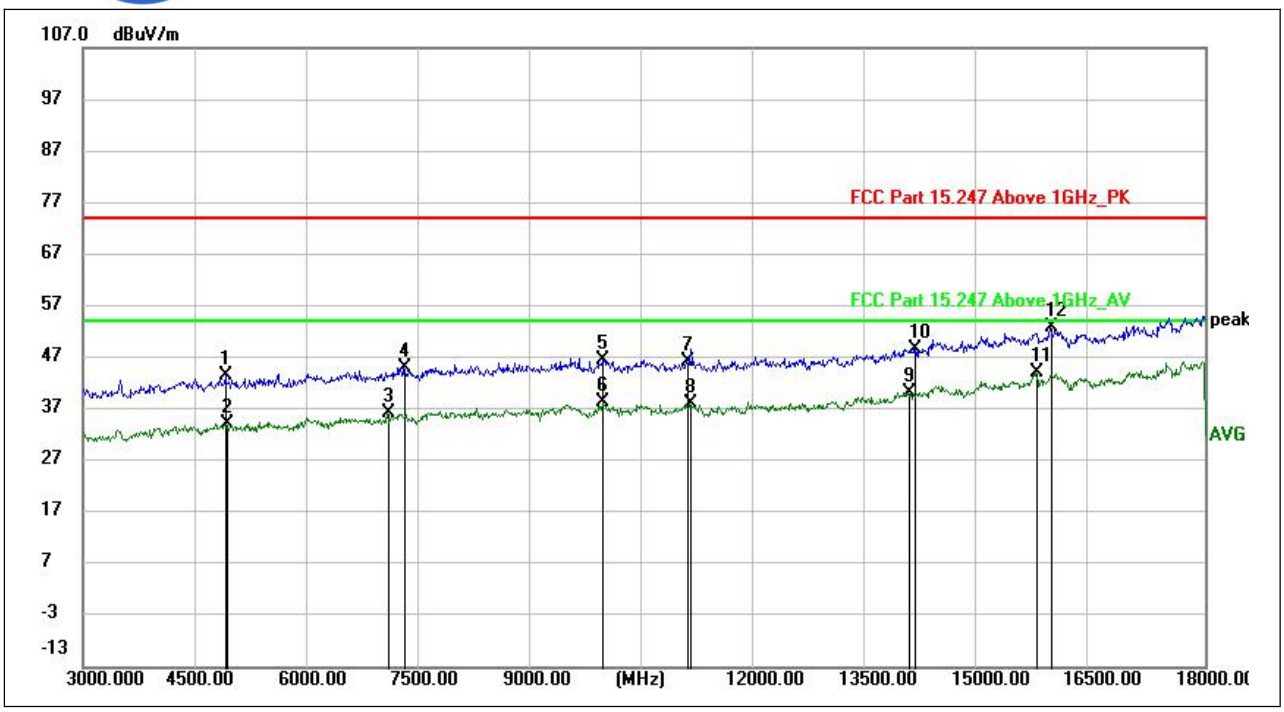
(802.11n_20M _2437MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
36.7919	13.69	13.49	27.18	40.00	-12.82	peak	PASS
61.3571	5.15	14.01	19.16	40.00	-20.84	peak	PASS
95.4103	15.46	13.13	28.59	43.50	-14.91	peak	PASS
141.5281	10.33	11.59	21.92	43.50	-21.58	peak	PASS
175.5592	10.94	11.57	22.51	43.50	-20.99	peak	PASS
507.0122	0.65	22.00	22.65	46.00	-23.35	peak	PASS



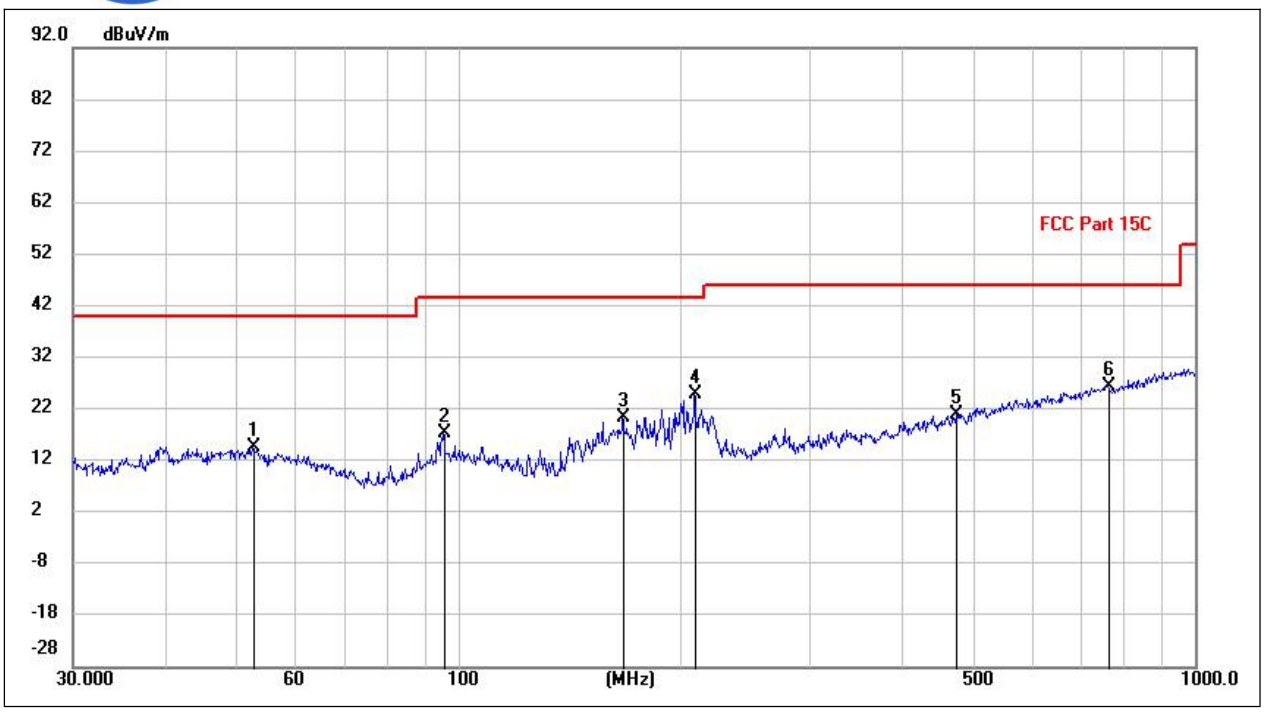
(802.11n_20M _2437MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1205.078	11.91	30.45	42.36	74.00	-31.64	peak	PASS
1219.529	3.78	29.82	33.60	54.00	-20.40	AVG	PASS
1531.185	11.75	32.96	44.71	74.00	-29.29	peak	PASS
1547.164	2.92	33.31	36.23	54.00	-17.77	AVG	PASS
1798.860	2.96	36.70	39.66	54.00	-14.34	AVG	PASS
1800.244	11.70	36.76	48.46	74.00	-25.54	peak	PASS
2147.854	11.80	37.65	49.45	74.00	-24.55	peak	PASS
2155.182	2.91	37.71	40.62	54.00	-13.38	AVG	PASS
2433.357	52.71	40.79	93.50	N/A	N/A	peak	N/A
2433.357	45.11	40.79	85.90	N/A	N/A	AVG	N/A
2758.476	12.72	43.70	56.42	74.00	-17.58	peak	PASS
2758.476	2.92	43.70	46.62	54.00	-7.38	AVG	PASS



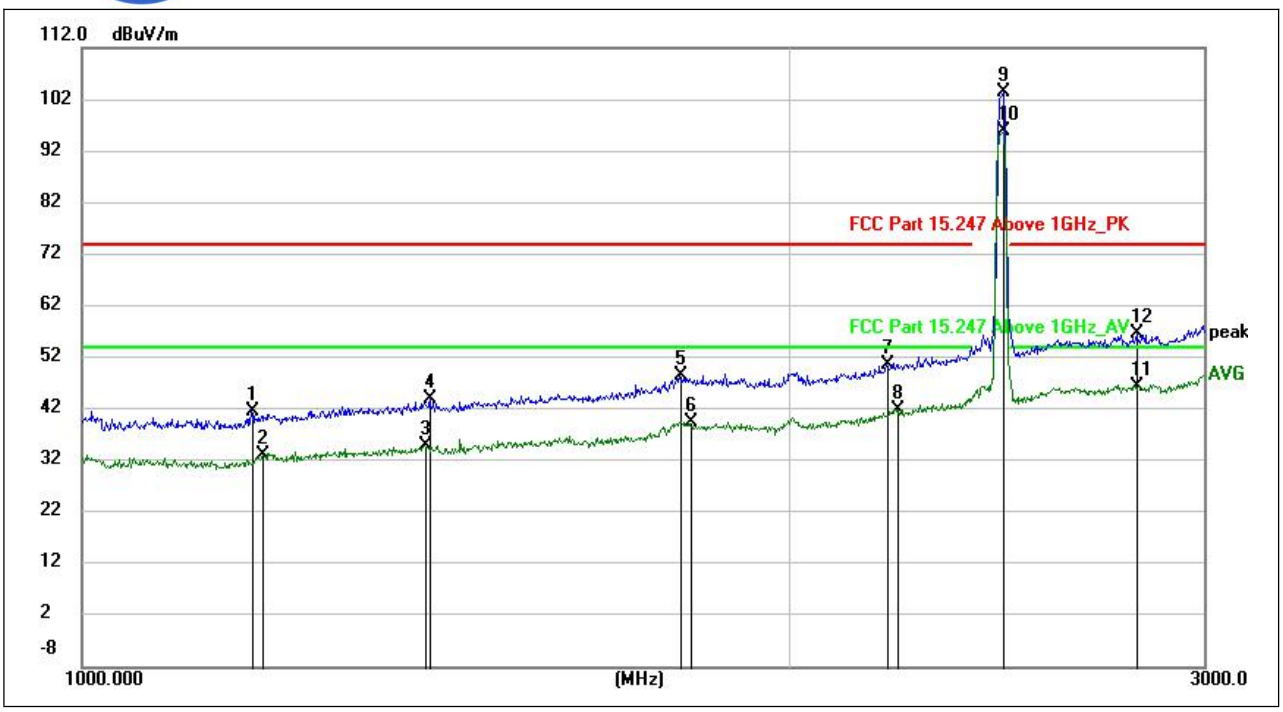
(802.11n_20M _2437MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4911.750	46.13	-2.68	43.45	74.00	-30.55	peak	PASS
4934.250	37.11	-2.82	34.29	54.00	-19.71	AVG	PASS
7079.250	37.15	-0.72	36.43	54.00	-17.57	AVG	PASS
7304.250	45.42	-0.27	45.15	74.00	-28.85	peak	PASS
9958.500	43.89	2.58	46.47	74.00	-27.53	peak	PASS
9958.500	35.83	2.58	38.41	54.00	-15.59	AVG	PASS
11082.750	43.05	3.18	46.23	74.00	-27.77	peak	PASS
11126.250	35.11	3.11	38.22	54.00	-15.78	AVG	PASS
14034.000	32.21	8.14	40.35	54.00	-13.65	AVG	PASS
14120.250	40.76	8.01	48.77	74.00	-25.23	peak	PASS
15748.500	33.29	10.97	44.26	54.00	-9.74	AVG	PASS
15943.500	41.67	11.10	52.77	74.00	-21.23	peak	PASS



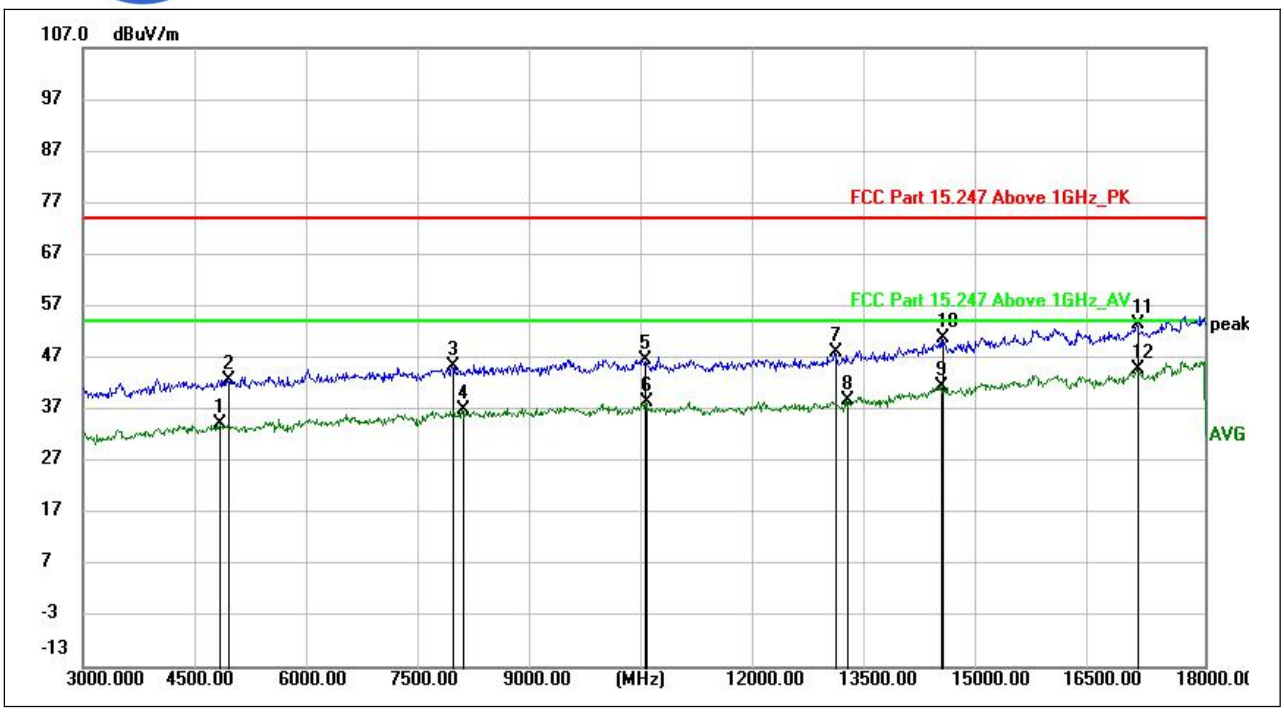
(802.11n_20M _2462MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
52.6860	-0.74	15.38	14.64	40.00	-25.36	peak	PASS
95.5442	4.14	13.15	17.29	43.50	-26.21	peak	PASS
167.3835	8.67	11.73	20.40	43.50	-23.10	peak	PASS
209.5700	11.66	13.30	24.96	43.50	-18.54	peak	PASS
475.4157	0.28	20.63	20.91	46.00	-25.09	peak	PASS
762.0385	0.28	26.25	26.53	46.00	-19.47	peak	PASS



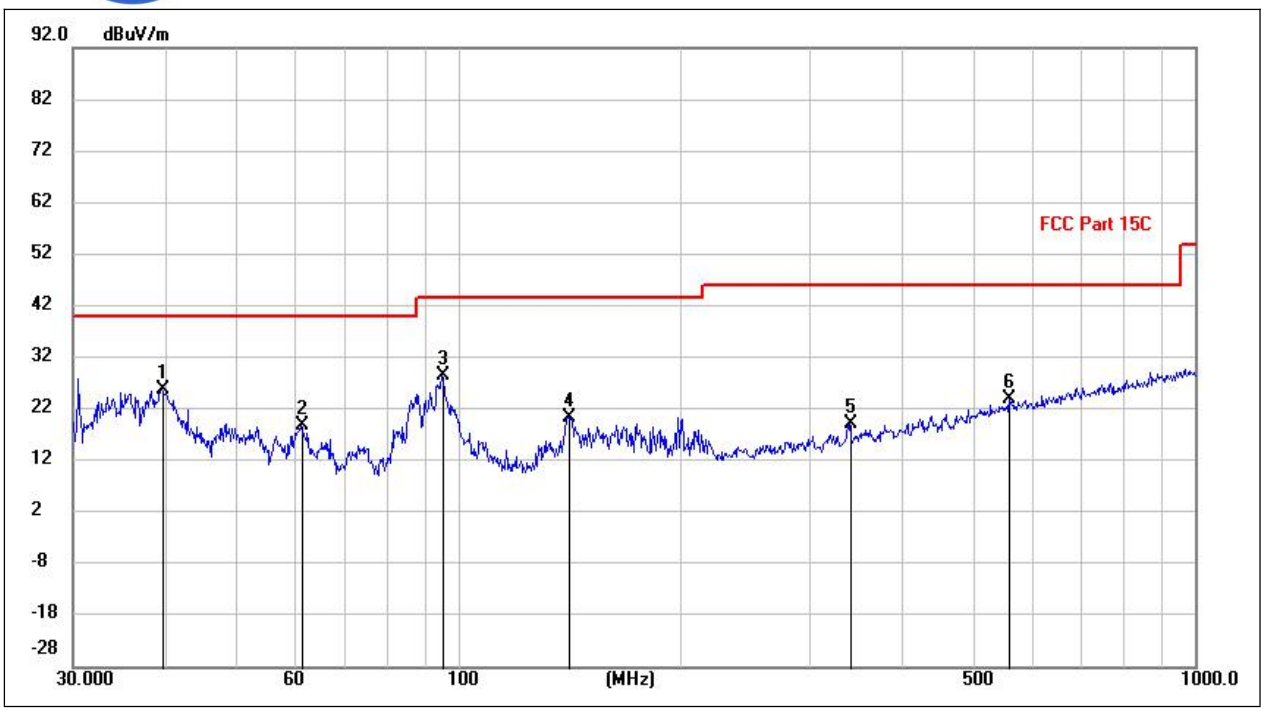
(802.11n_20M _2462MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1181.612	12.05	29.47	41.52	74.00	-32.48	peak	PASS
1194.402	2.88	30.30	33.18	54.00	-20.82	AVG	PASS
1398.585	3.16	31.95	35.11	54.00	-18.89	AVG	PASS
1405.980	12.38	31.78	44.16	74.00	-29.84	peak	PASS
1796.787	12.12	36.55	48.67	74.00	-25.33	peak	PASS
1815.239	3.88	35.75	39.63	54.00	-14.37	AVG	PASS
2200.278	12.04	38.64	50.68	74.00	-23.32	peak	PASS
2220.555	2.83	39.11	41.94	54.00	-12.06	AVG	PASS
2466.055	61.76	41.63	103.39	N/A	N/A	peak	N/A
2466.055	54.26	41.63	95.89	N/A	N/A	AVG	N/A
2810.787	2.73	43.80	46.53	54.00	-7.47	AVG	PASS
2811.250	12.89	43.75	56.64	74.00	-17.36	peak	PASS



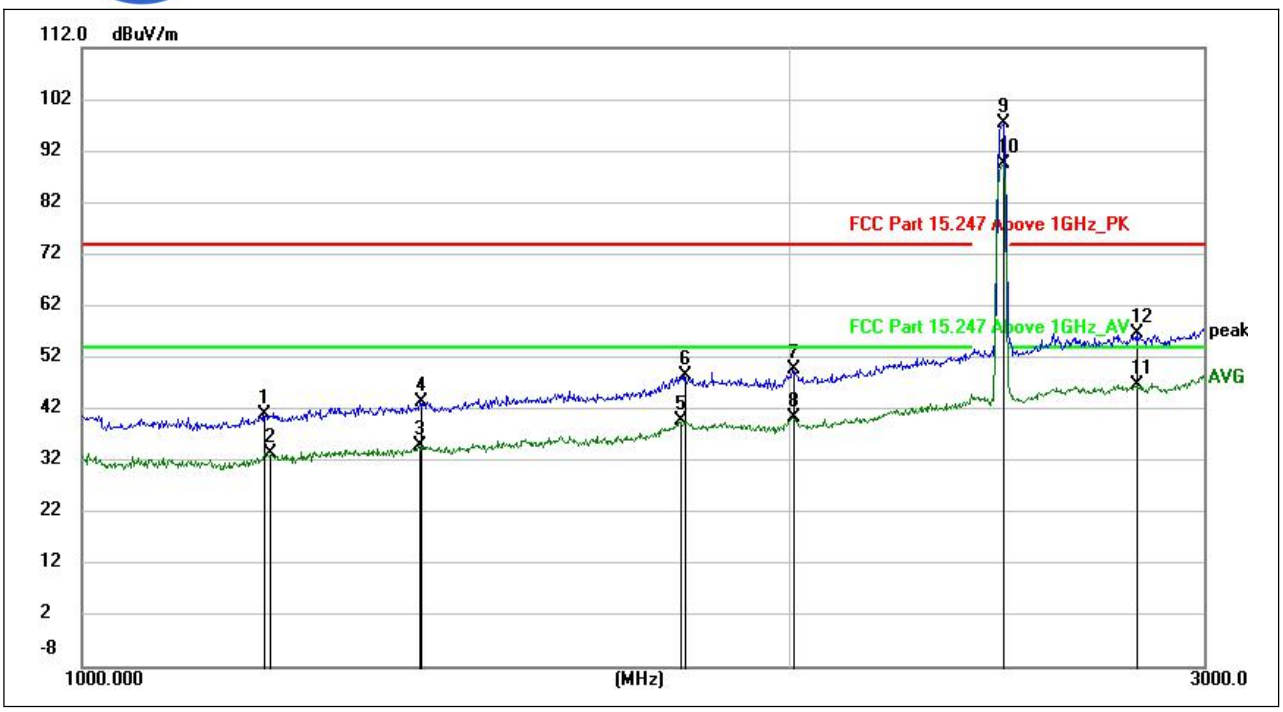
(802.11n_20M _2462MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4830.000	37.22	-3.17	34.05	54.00	-19.95	AVG	PASS
4941.750	45.58	-2.87	42.71	74.00	-31.29	peak	PASS
7948.500	44.15	1.26	45.41	74.00	-28.59	peak	PASS
8084.250	36.17	0.58	36.75	54.00	-17.25	AVG	PASS
10509.000	44.08	2.58	46.66	74.00	-27.34	peak	PASS
10528.500	35.75	2.67	38.42	54.00	-15.58	AVG	PASS
13064.250	41.51	6.60	48.11	74.00	-25.89	peak	PASS
13224.000	33.26	5.43	38.69	54.00	-15.31	AVG	PASS
14484.000	33.67	7.73	41.40	54.00	-12.60	AVG	PASS
14491.500	42.91	7.74	50.65	74.00	-23.35	peak	PASS
17097.750	41.89	11.70	53.59	74.00	-20.41	peak	PASS
17097.750	32.95	11.70	44.65	54.00	-9.35	AVG	PASS



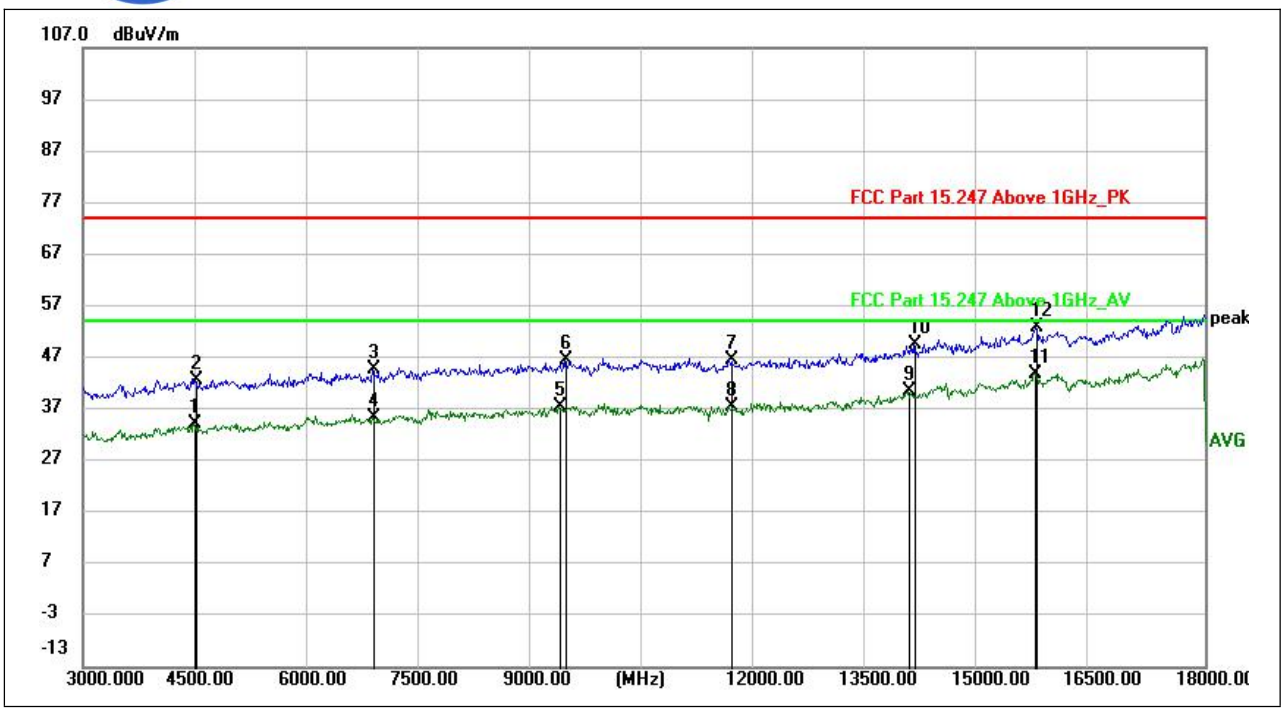
(802.11n_20M _2462MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.6104	10.62	15.11	25.73	40.00	-14.27	peak	PASS
61.2174	4.66	14.09	18.75	40.00	-21.25	peak	PASS
95.3768	15.36	13.13	28.49	43.50	-15.01	peak	PASS
141.2059	8.85	11.69	20.54	43.50	-22.96	peak	PASS
340.0654	0.77	18.27	19.04	46.00	-26.96	peak	PASS
559.6125	1.42	22.70	24.12	46.00	-21.88	peak	PASS



(802.11n_20M _2462MHz, Antenna Vertical , 1GHz to 3GHz)

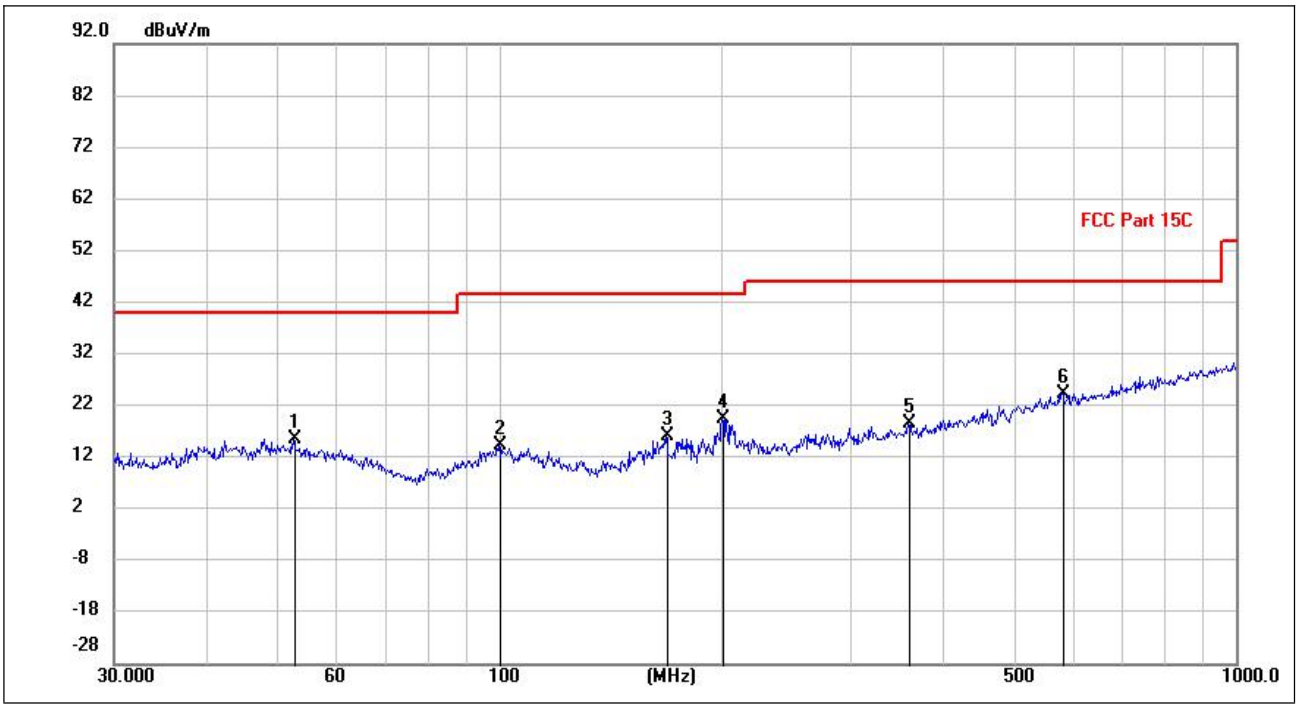
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1195.584	10.52	30.38	40.90	74.00	-33.10	peak	PASS
1201.443	2.78	30.63	33.41	54.00	-20.59	AVG	PASS
1391.841	3.41	31.66	35.07	54.00	-18.93	AVG	PASS
1392.529	11.65	31.69	43.34	74.00	-30.66	peak	PASS
1796.194	3.29	36.51	39.80	54.00	-14.20	AVG	PASS
1804.105	11.90	36.51	48.41	74.00	-25.59	peak	PASS
2006.757	12.46	37.23	49.69	74.00	-24.31	peak	PASS
2006.757	3.07	37.23	40.30	54.00	-13.70	AVG	PASS
2467.139	55.61	41.67	97.28	N/A	N/A	peak	N/A
2467.139	47.80	41.67	89.47	N/A	N/A	AVG	N/A
2806.930	2.54	44.15	46.69	54.00	-7.31	AVG	PASS
2809.552	12.75	43.91	56.66	74.00	-17.34	peak	PASS



(802.11n_20M _2462MHz, Antenna Vertical, 3GHz to 18GHz)

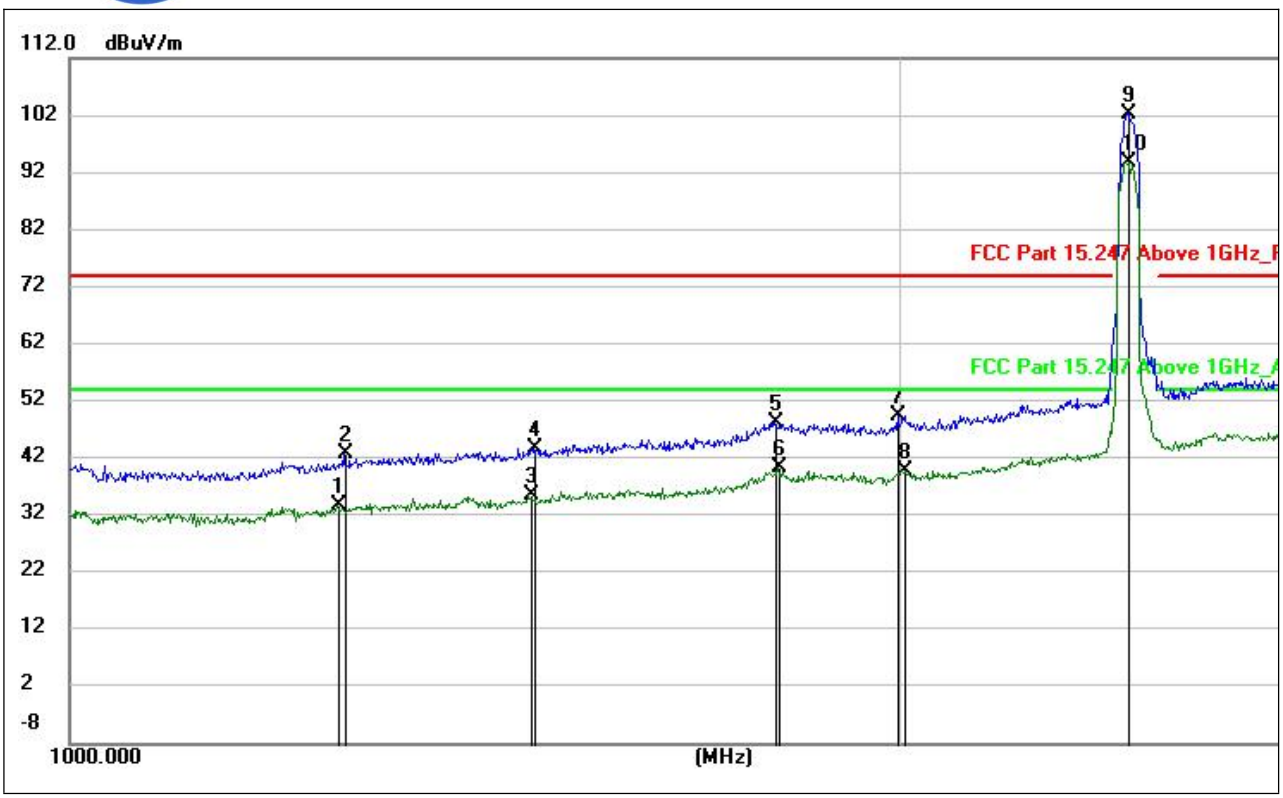
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4496.250	37.64	-3.33	34.31	54.00	-19.69	AVG	PASS
4513.500	46.01	-3.43	42.58	74.00	-31.42	peak	PASS
6891.750	45.72	-1.01	44.71	74.00	-29.29	peak	PASS
6891.750	36.36	-1.01	35.35	54.00	-18.65	AVG	PASS
9360.750	35.77	1.84	37.61	54.00	-16.39	AVG	PASS
9451.500	44.37	2.09	46.46	74.00	-27.54	peak	PASS
11661.000	42.92	3.58	46.50	74.00	-27.50	peak	PASS
11661.000	33.84	3.58	37.42	54.00	-16.58	AVG	PASS
14043.750	32.20	8.19	40.39	54.00	-13.61	AVG	PASS
14117.250	41.45	8.03	49.48	74.00	-24.52	peak	PASS
15731.250	32.49	11.33	43.82	54.00	-10.18	AVG	PASS
15750.000	41.88	10.94	52.82	74.00	-21.18	peak	PASS

802.11n-40MHz Test mode



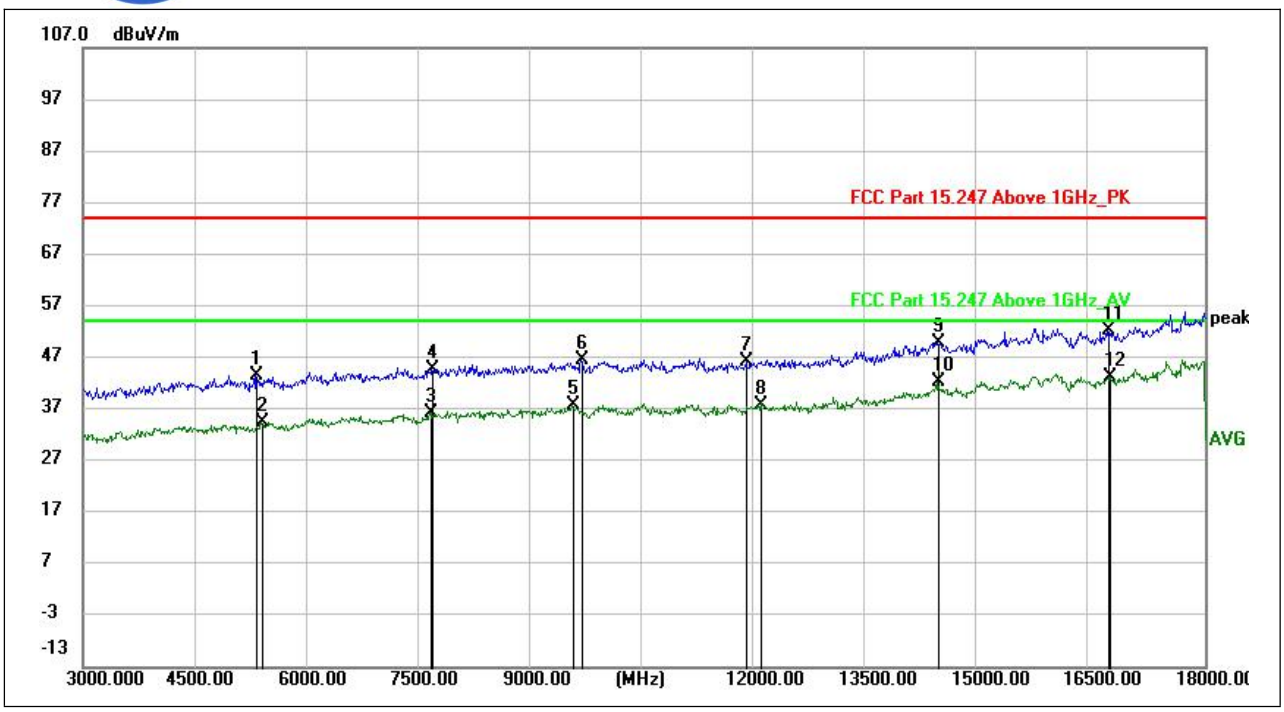
(802.11n_40M _2422MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
52.6491	0.17	15.38	15.55	40.00	-24.45	peak	PASS
99.9303	-0.80	15.13	14.33	43.50	-29.17	peak	PASS
168.7093	4.00	12.15	16.15	43.50	-27.35	peak	PASS
200.7936	5.35	14.17	19.52	43.50	-23.98	peak	PASS
359.6271	-0.13	18.57	18.44	46.00	-27.56	peak	PASS
580.8045	1.20	23.07	24.27	46.00	-21.73	peak	PASS



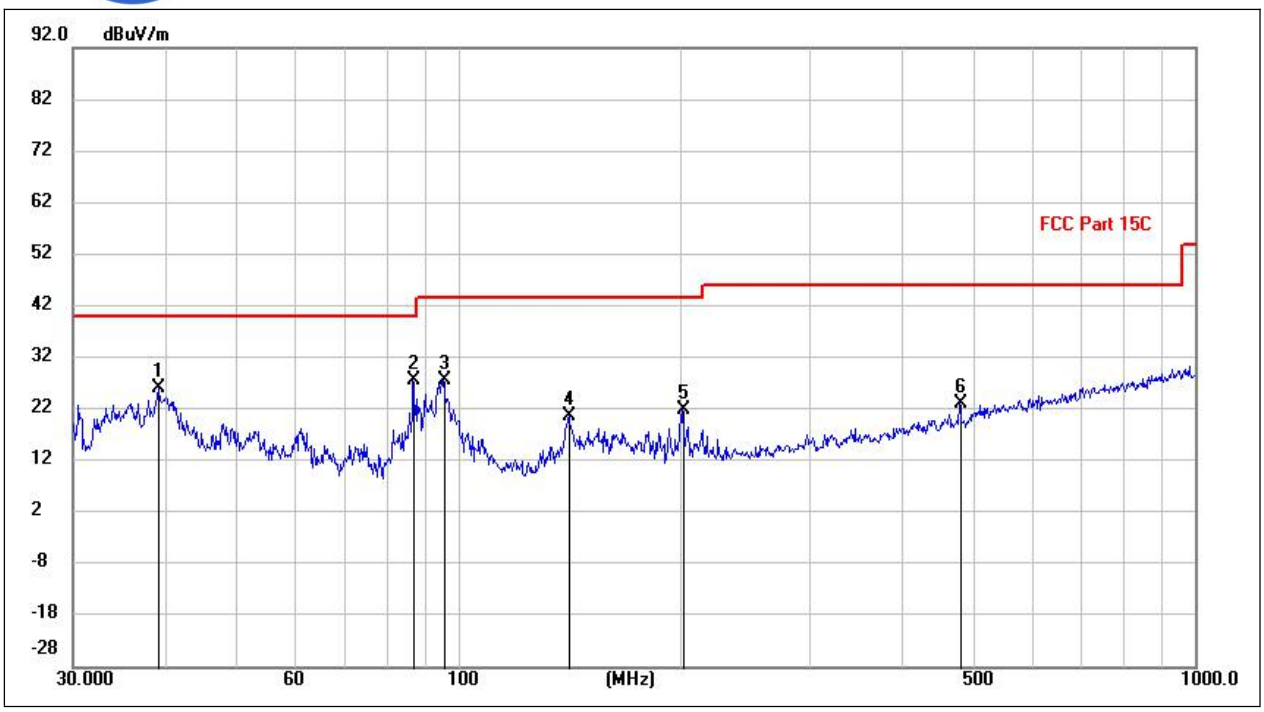
(802.11n_40M _2422MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1251.767	3.43	30.22	33.65	54.00	-20.35	AVG	PASS
1258.178	12.36	30.34	42.70	74.00	-31.30	peak	PASS
1469.385	3.14	32.36	35.50	54.00	-18.50	AVG	PASS
1473.912	11.34	32.41	43.75	74.00	-30.25	peak	PASS
1802.520	11.74	36.61	48.35	74.00	-25.65	peak	PASS
1806.882	3.97	36.31	40.28	54.00	-13.72	AVG	PASS
1996.313	12.73	36.83	49.56	74.00	-24.44	peak	PASS
2005.545	2.59	37.30	39.89	54.00	-14.11	AVG	PASS
2418.698	61.53	40.81	102.34	N/A	N/A	peak	N/A
2420.027	53.12	40.74	93.86	N/A	N/A	AVG	N/A
2795.236	2.24	44.31	46.55	54.00	-7.45	AVG	PASS
2806.313	12.38	44.19	56.57	74.00	-17.43	peak	PASS



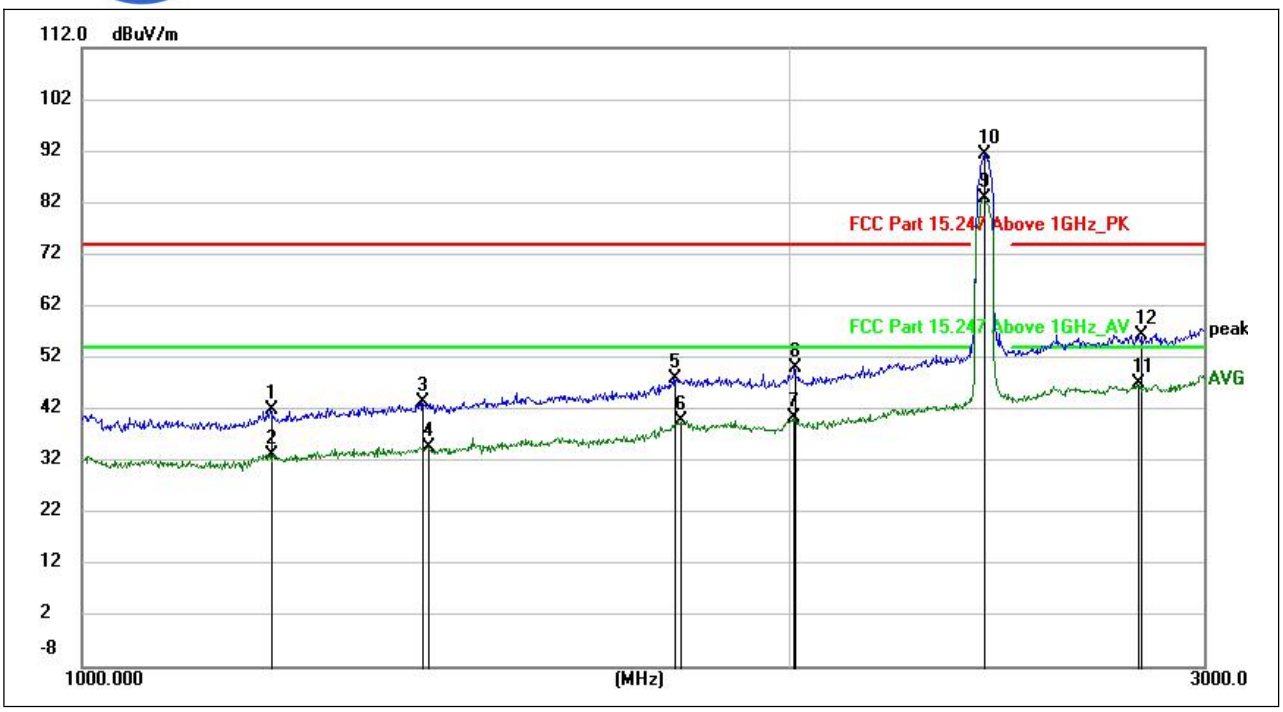
(802.11n_40M _2422MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
5322.750	46.40	-2.82	43.58	74.00	-30.42	peak	PASS
5394.000	36.91	-2.44	34.47	54.00	-19.53	AVG	PASS
7653.000	35.42	0.89	36.31	54.00	-17.69	AVG	PASS
7666.500	43.99	0.81	44.80	74.00	-29.20	peak	PASS
9543.750	35.57	2.16	37.73	54.00	-16.27	AVG	PASS
9670.500	44.78	1.63	46.41	74.00	-27.59	peak	PASS
11871.000	42.65	3.55	46.20	74.00	-27.80	peak	PASS
12050.250	33.57	4.38	37.95	54.00	-16.05	AVG	PASS
14432.250	40.73	9.06	49.79	74.00	-24.21	peak	PASS
14432.250	33.32	9.06	42.38	54.00	-11.62	AVG	PASS
16704.750	40.55	11.77	52.32	74.00	-21.68	peak	PASS
16725.750	31.41	11.82	43.23	54.00	-10.77	AVG	PASS



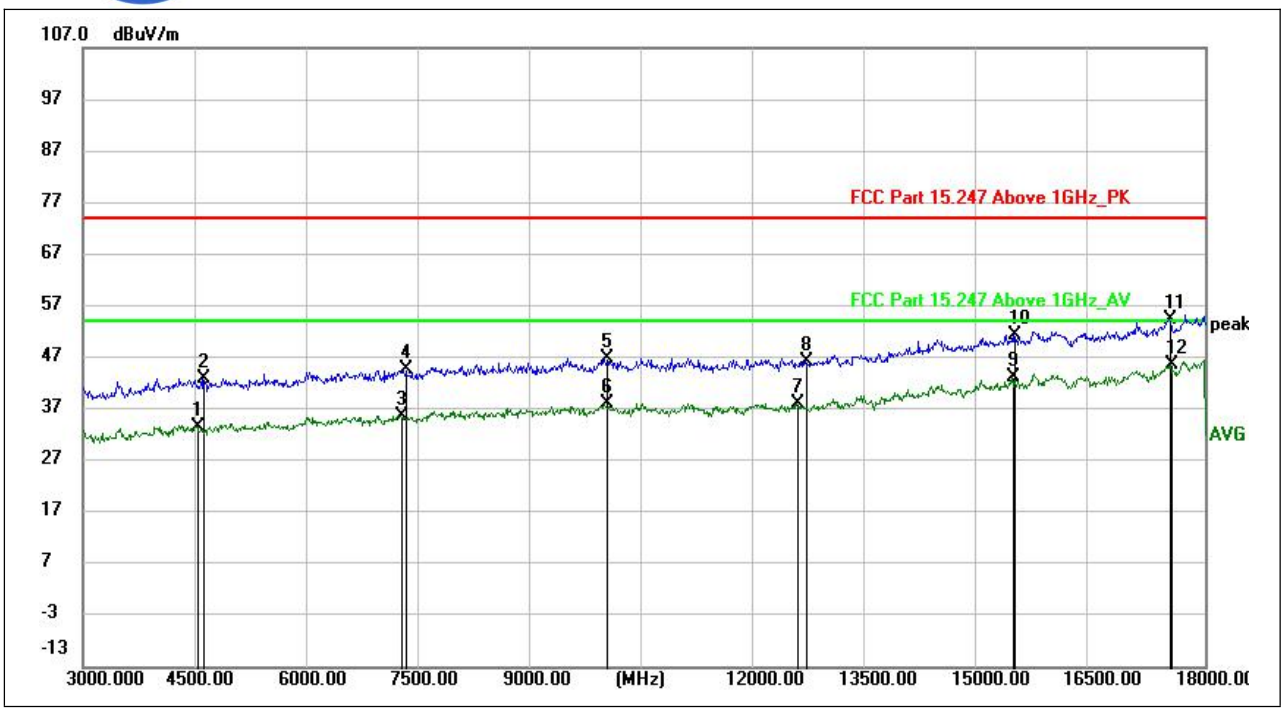
(802.11n_40M _2422MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
39.2647	11.59	14.59	26.18	40.00	-13.82	peak	PASS
87.0964	16.35	11.28	27.63	40.00	-12.37	peak	PASS
95.4605	14.45	13.14	27.59	43.50	-15.91	peak	PASS
141.5033	9.19	11.60	20.79	43.50	-22.71	peak	PASS
201.6050	7.89	14.02	21.91	43.50	-21.59	peak	PASS
480.0224	1.42	21.54	22.96	46.00	-23.04	peak	PASS



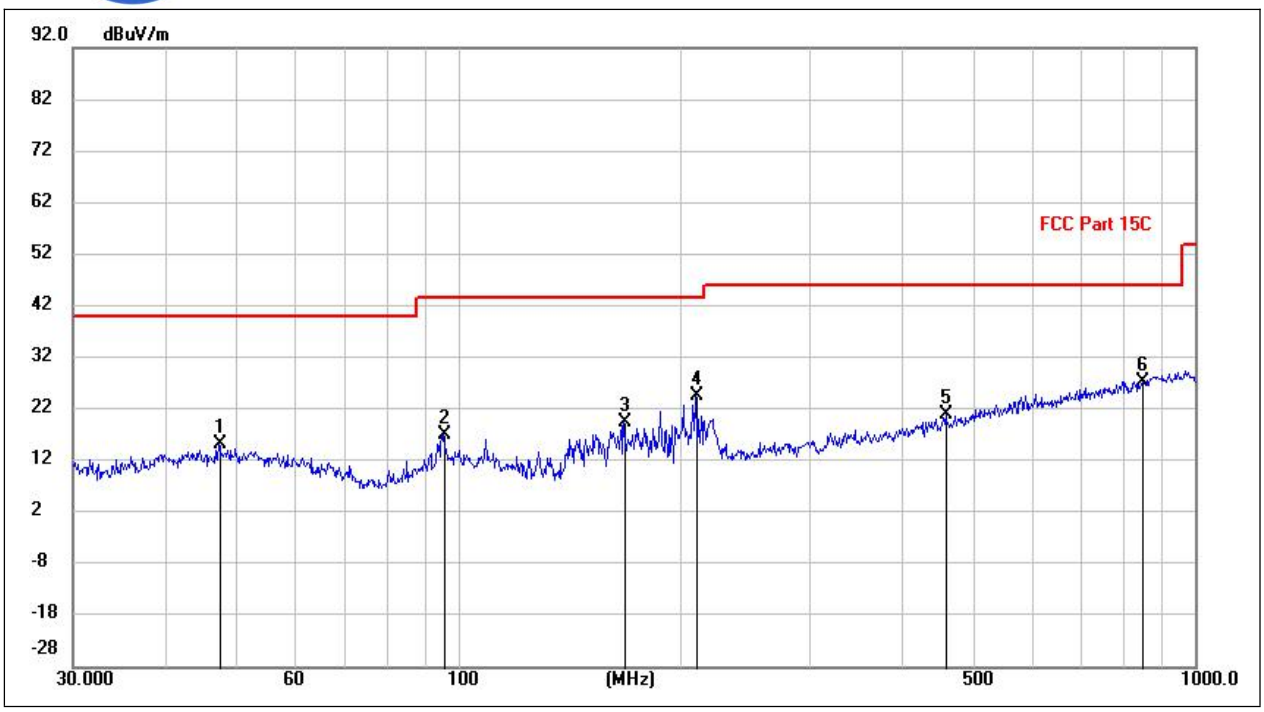
(802.11n_40M _2422MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1203.358	11.33	30.53	41.86	74.00	-32.14	peak	PASS
1203.358	2.73	30.53	33.26	54.00	-20.74	AVG	PASS
1395.056	11.68	31.80	43.48	74.00	-30.52	peak	PASS
1404.051	2.95	31.85	34.80	54.00	-19.20	AVG	PASS
1787.238	12.39	35.58	47.97	74.00	-26.03	peak	PASS
1796.392	3.20	36.52	39.72	54.00	-14.28	AVG	PASS
2007.529	3.15	37.19	40.34	54.00	-13.66	AVG	PASS
2011.061	13.02	37.00	50.02	74.00	-23.98	peak	PASS
2418.299	41.99	40.83	82.82	N/A	N/A	AVG	N/A
2419.761	50.58	40.75	91.33	N/A	N/A	peak	N/A
2814.341	3.40	43.51	46.91	54.00	-7.09	AVG	PASS
2818.518	13.19	43.16	56.35	74.00	-17.65	peak	PASS



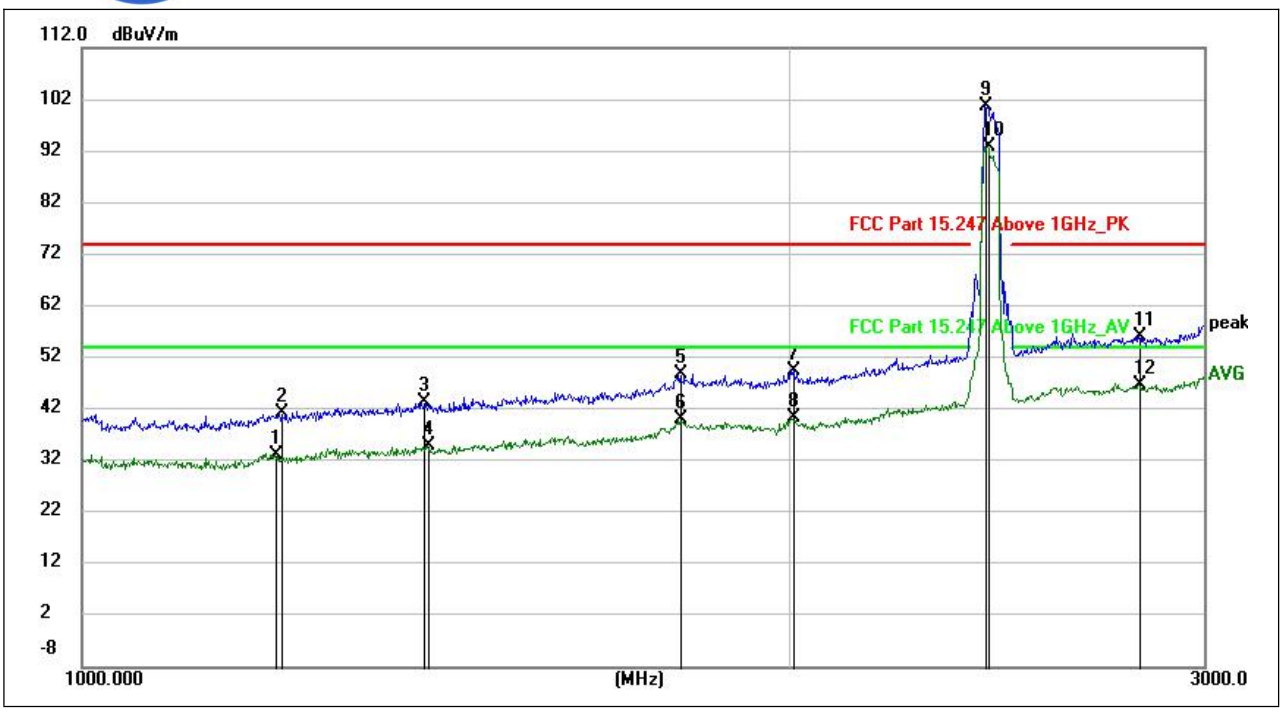
(802.11n_40M _2422MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4517.250	37.04	-3.47	33.57	54.00	-20.43	AVG	PASS
4608.000	46.68	-3.87	42.81	74.00	-31.19	peak	PASS
7258.500	36.02	-0.32	35.70	54.00	-18.30	AVG	PASS
7311.750	45.01	-0.25	44.76	74.00	-29.24	peak	PASS
9991.500	44.25	2.61	46.86	74.00	-27.14	peak	PASS
9991.500	35.51	2.61	38.12	54.00	-15.88	AVG	PASS
12550.500	33.60	4.36	37.96	54.00	-16.04	AVG	PASS
12664.500	41.58	4.79	46.37	74.00	-27.63	peak	PASS
15438.000	32.60	10.49	43.09	54.00	-10.91	AVG	PASS
15453.000	40.80	10.45	51.25	74.00	-22.75	peak	PASS
17529.750	39.76	14.51	54.27	74.00	-19.73	peak	PASS
17537.250	31.47	14.31	45.78	54.00	-8.22	AVG	PASS



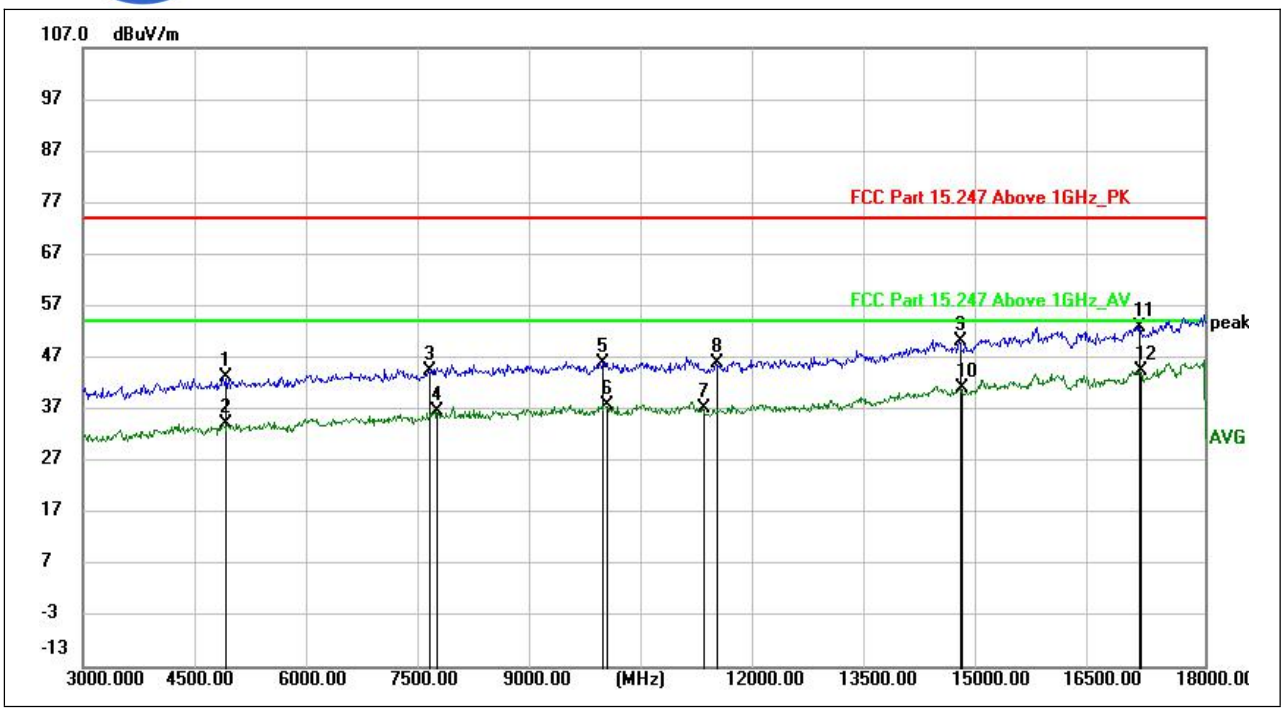
(802.11n_40M _2437MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
47.4335	-0.27	15.49	15.22	40.00	-24.78	peak	PASS
95.6447	3.85	13.17	17.02	43.50	-26.48	peak	PASS
168.2367	7.34	12.02	19.36	43.50	-24.14	peak	PASS
210.2693	11.17	13.32	24.49	43.50	-19.01	peak	PASS
459.3560	0.02	21.07	21.09	46.00	-24.91	peak	PASS
848.3538	0.48	26.84	27.32	46.00	-18.68	peak	PASS



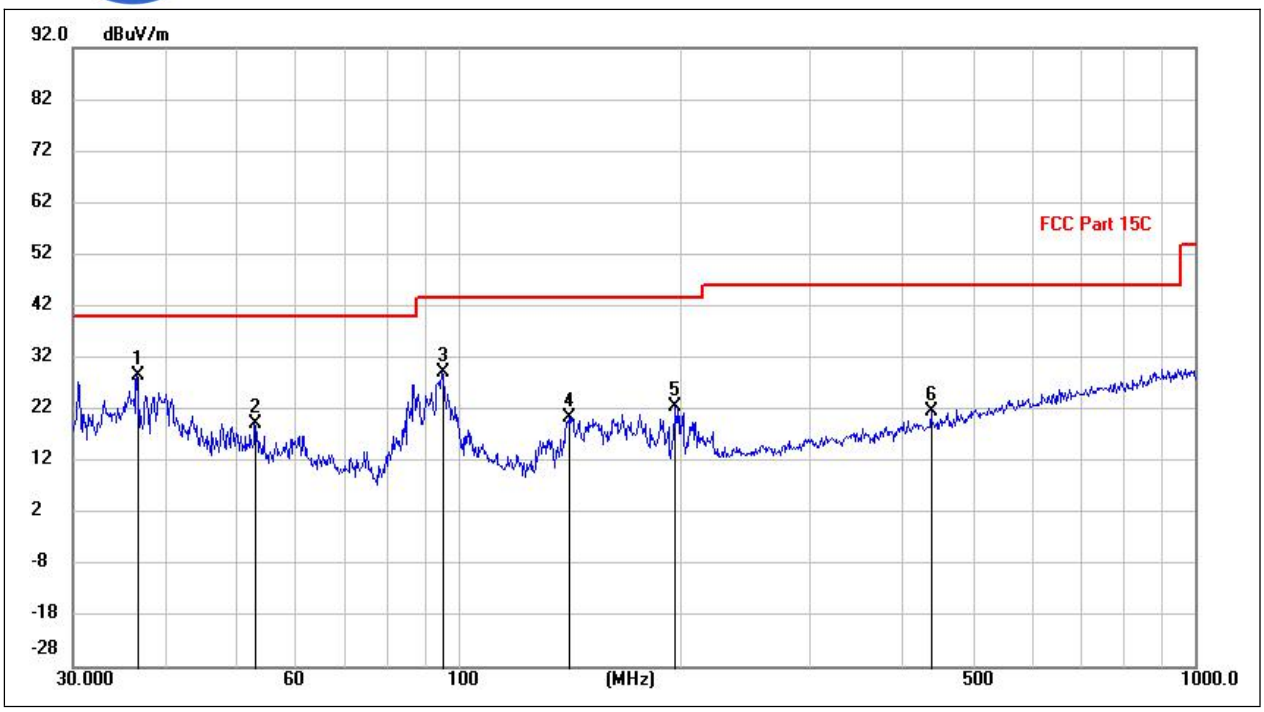
(802.11n_40M _2437MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1208.724	2.99	30.28	33.27	54.00	-20.73	AVG	PASS
1214.715	11.23	30.03	41.26	74.00	-32.74	peak	PASS
1397.126	11.63	31.89	43.52	74.00	-30.48	peak	PASS
1403.588	3.11	31.87	34.98	54.00	-19.02	AVG	PASS
1796.194	12.20	36.51	48.71	74.00	-25.29	peak	PASS
1796.194	3.58	36.51	40.09	54.00	-13.91	AVG	PASS
2005.655	12.25	37.29	49.54	74.00	-24.46	peak	PASS
2005.655	3.00	37.29	40.29	54.00	-13.71	AVG	PASS
2423.752	59.88	40.76	100.64	N/A	N/A	peak	N/A
2429.884	51.95	40.77	92.72	N/A	N/A	AVG	N/A
2815.887	12.82	43.37	56.19	74.00	-17.81	peak	PASS
2815.887	3.28	43.37	46.65	54.00	-7.35	AVG	PASS



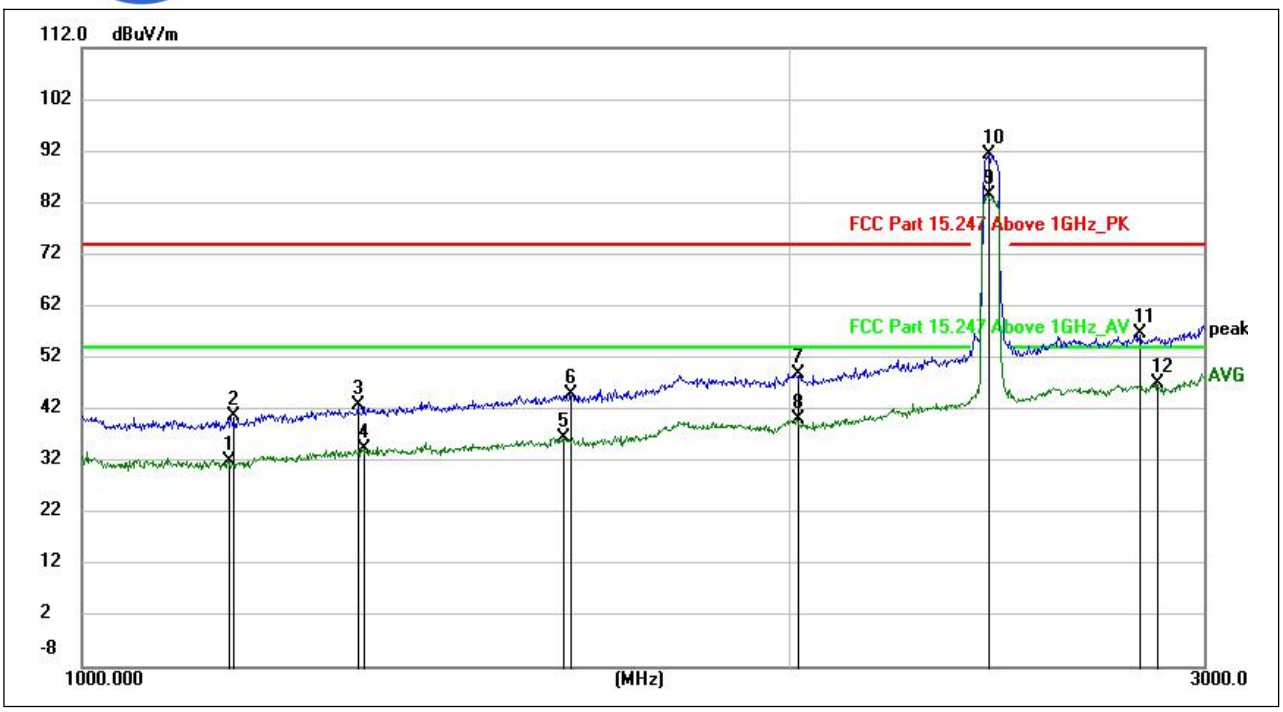
(802.11n_40M _2437MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4896.000	45.81	-2.72	43.09	74.00	-30.91	peak	PASS
4896.000	36.92	-2.72	34.20	54.00	-19.80	AVG	PASS
7634.250	43.79	0.66	44.45	74.00	-29.55	peak	PASS
7734.750	36.44	0.08	36.52	54.00	-17.48	AVG	PASS
9931.500	43.91	2.10	46.01	74.00	-27.99	peak	PASS
9995.250	35.99	1.93	37.92	54.00	-16.08	AVG	PASS
11284.500	34.12	3.02	37.14	54.00	-16.86	AVG	PASS
11473.500	42.47	3.40	45.87	74.00	-28.13	peak	PASS
14728.500	40.90	9.39	50.29	74.00	-23.71	peak	PASS
14751.750	32.15	9.05	41.20	54.00	-12.80	AVG	PASS
17127.000	40.72	12.15	52.87	74.00	-21.13	peak	PASS
17135.250	32.11	12.27	44.38	54.00	-9.62	AVG	PASS



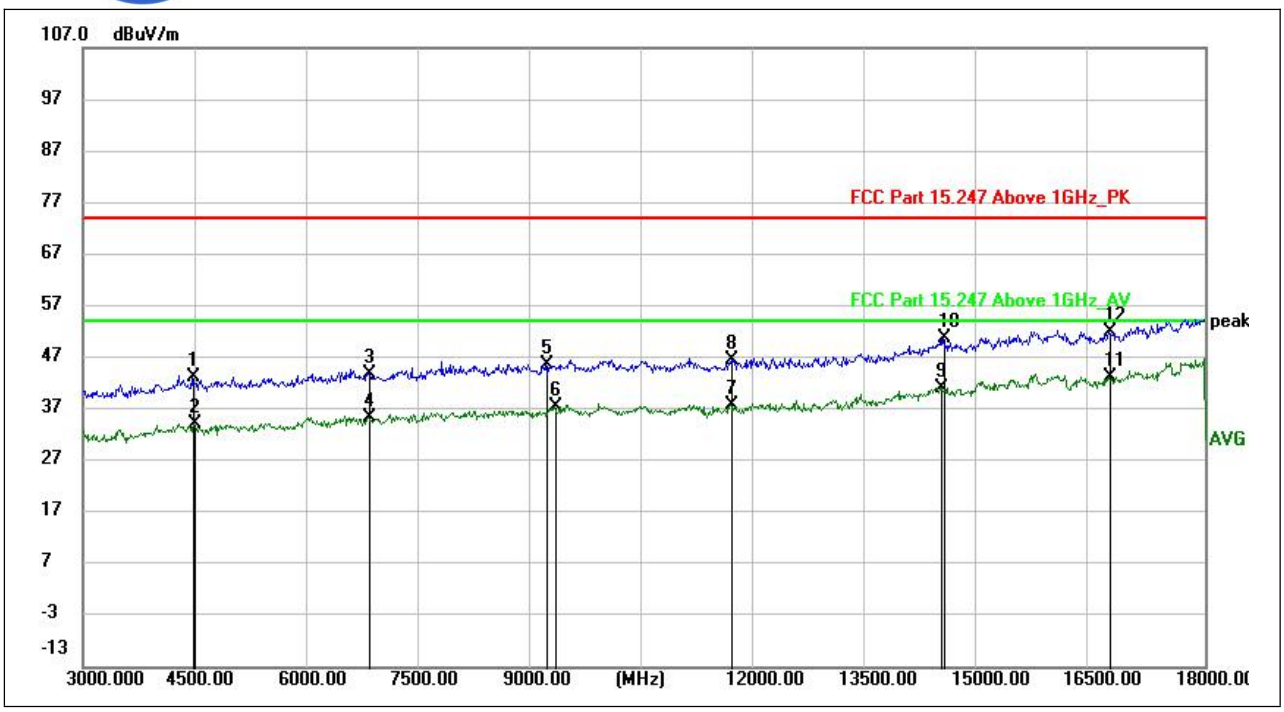
(802.11n_40M _2437MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
36.6439	15.14	13.41	28.55	40.00	-11.45	peak	PASS
53.0568	3.77	15.35	19.12	40.00	-20.88	peak	PASS
95.3601	16.12	13.13	29.25	43.50	-14.25	peak	PASS
141.7268	8.86	11.53	20.39	43.50	-23.11	peak	PASS
196.7856	8.97	13.64	22.61	43.50	-20.89	peak	PASS
440.1191	1.14	20.58	21.72	46.00	-24.28	peak	PASS



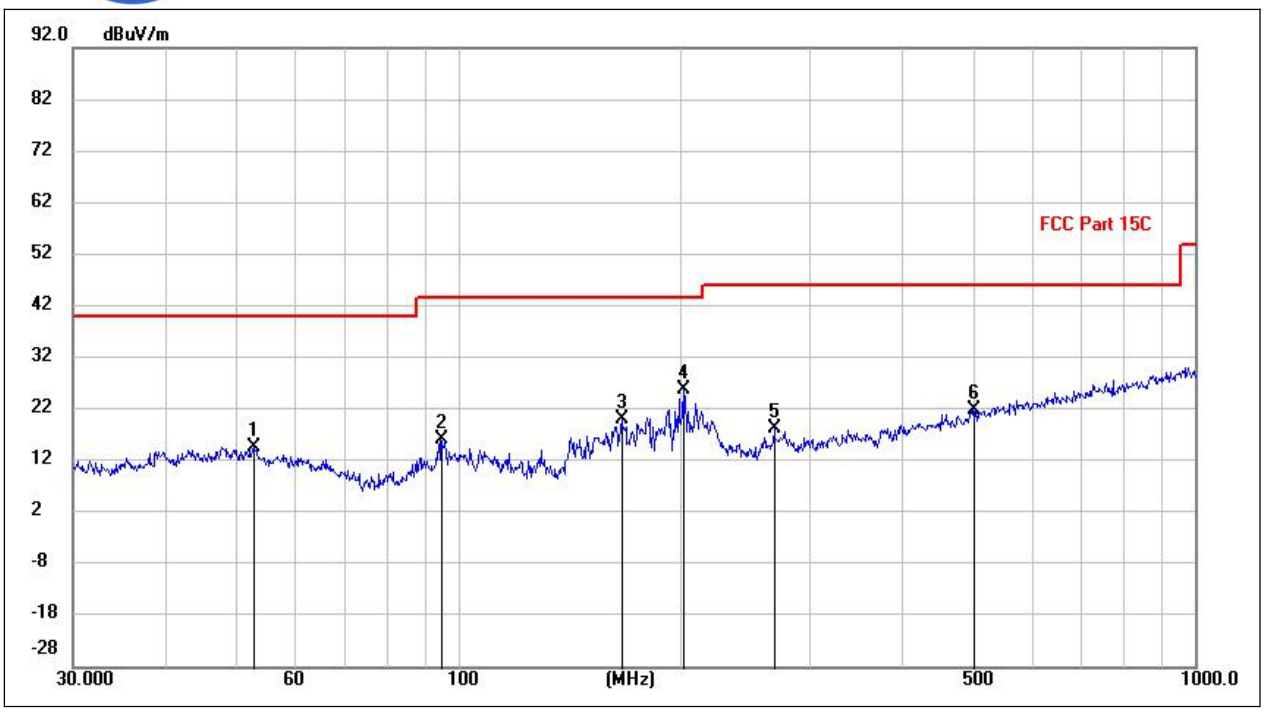
(802.11n_40M _2437MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1154.599	3.10	29.00	32.10	54.00	-21.90	AVG	PASS
1158.857	11.66	29.05	40.71	74.00	-33.29	peak	PASS
1311.383	11.92	30.78	42.70	74.00	-31.30	peak	PASS
1318.607	3.70	30.78	34.48	54.00	-19.52	AVG	PASS
1603.492	2.41	34.12	36.53	54.00	-17.47	AVG	PASS
1614.096	11.10	33.75	44.85	74.00	-29.15	peak	PASS
2013.603	11.85	36.86	48.71	74.00	-25.29	peak	PASS
2014.931	3.45	36.79	40.24	54.00	-13.76	AVG	PASS
2430.284	42.86	40.78	83.64	N/A	N/A	AVG	N/A
2430.685	50.63	40.78	91.41	N/A	N/A	peak	N/A
2815.114	13.10	43.44	56.54	74.00	-17.46	peak	PASS
2864.877	2.89	44.20	47.09	54.00	-6.91	AVG	PASS



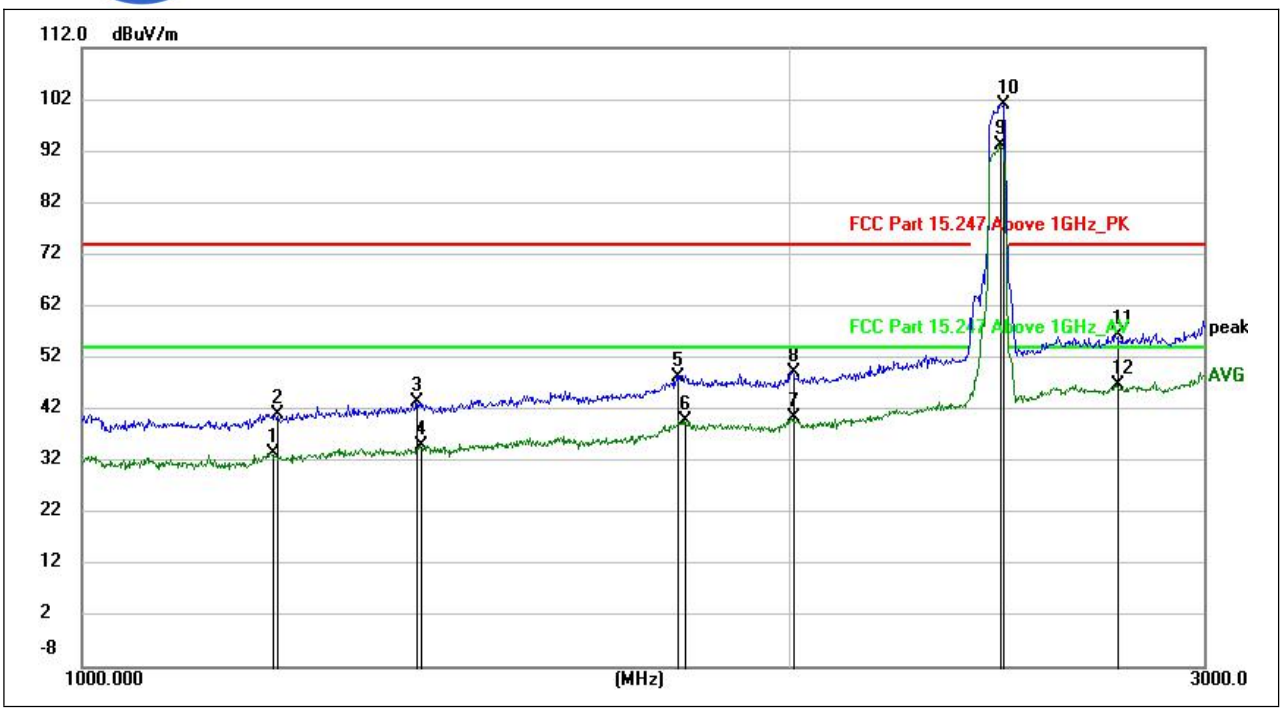
(802.11n_40M _2437MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4476.000	46.71	-3.52	43.19	74.00	-30.81	peak	PASS
4499.250	37.46	-3.28	34.18	54.00	-19.82	AVG	PASS
6821.250	44.83	-0.95	43.88	74.00	-30.12	peak	PASS
6821.250	36.49	-0.95	35.54	54.00	-18.46	AVG	PASS
9208.500	44.10	1.55	45.65	74.00	-28.35	peak	PASS
9309.750	35.65	1.75	37.40	54.00	-16.60	AVG	PASS
11676.750	34.14	3.79	37.93	54.00	-16.07	AVG	PASS
11682.750	42.76	3.87	46.63	74.00	-27.37	peak	PASS
14472.750	32.36	8.90	41.26	54.00	-12.74	AVG	PASS
14518.500	41.71	9.11	50.82	74.00	-23.18	peak	PASS
16731.000	31.34	11.84	43.18	54.00	-10.82	AVG	PASS
16738.500	40.12	11.87	51.99	74.00	-22.01	peak	PASS



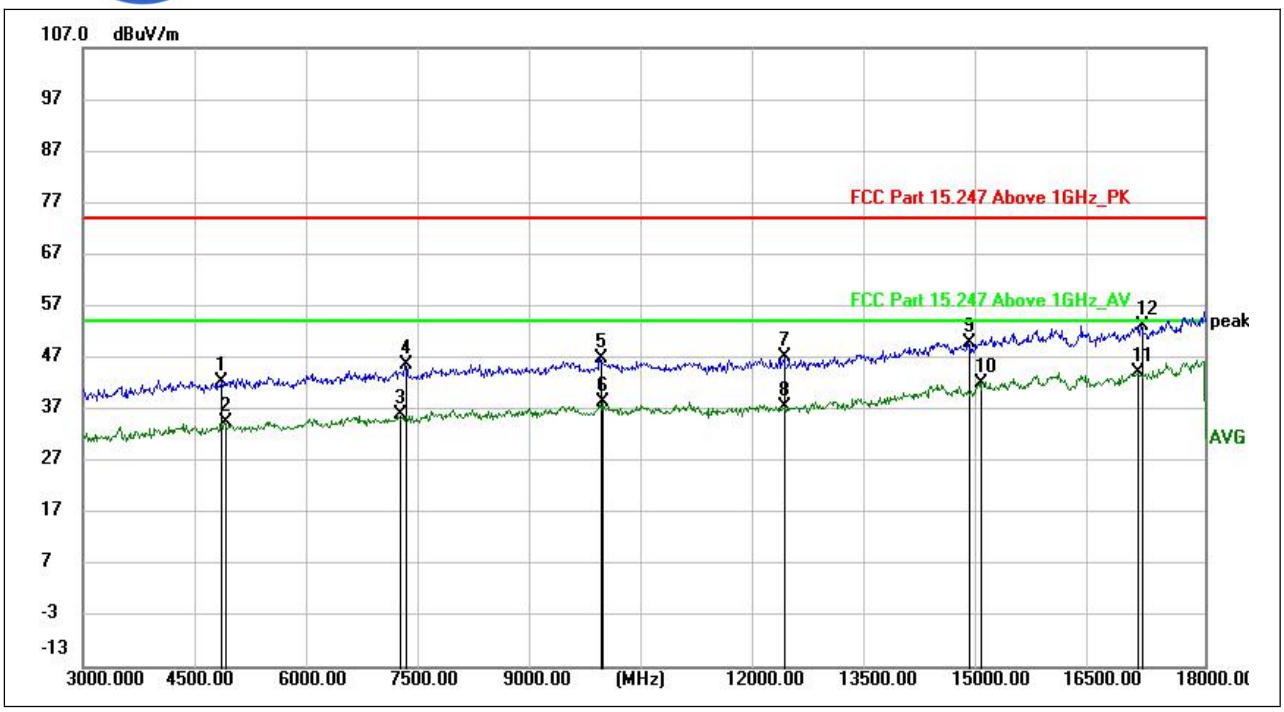
(802.11n_40M _2452MHz, Antenna Horizontal, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
52.8711	-0.84	15.36	14.52	40.00	-25.48	peak	PASS
94.9597	3.06	13.06	16.12	43.50	-27.38	peak	PASS
167.2368	8.55	11.68	20.23	43.50	-23.27	peak	PASS
202.4906	11.92	13.90	25.82	43.50	-17.68	peak	PASS
268.8621	3.09	15.24	18.33	46.00	-27.67	peak	PASS
500.0380	-0.01	22.00	21.99	46.00	-24.01	peak	PASS



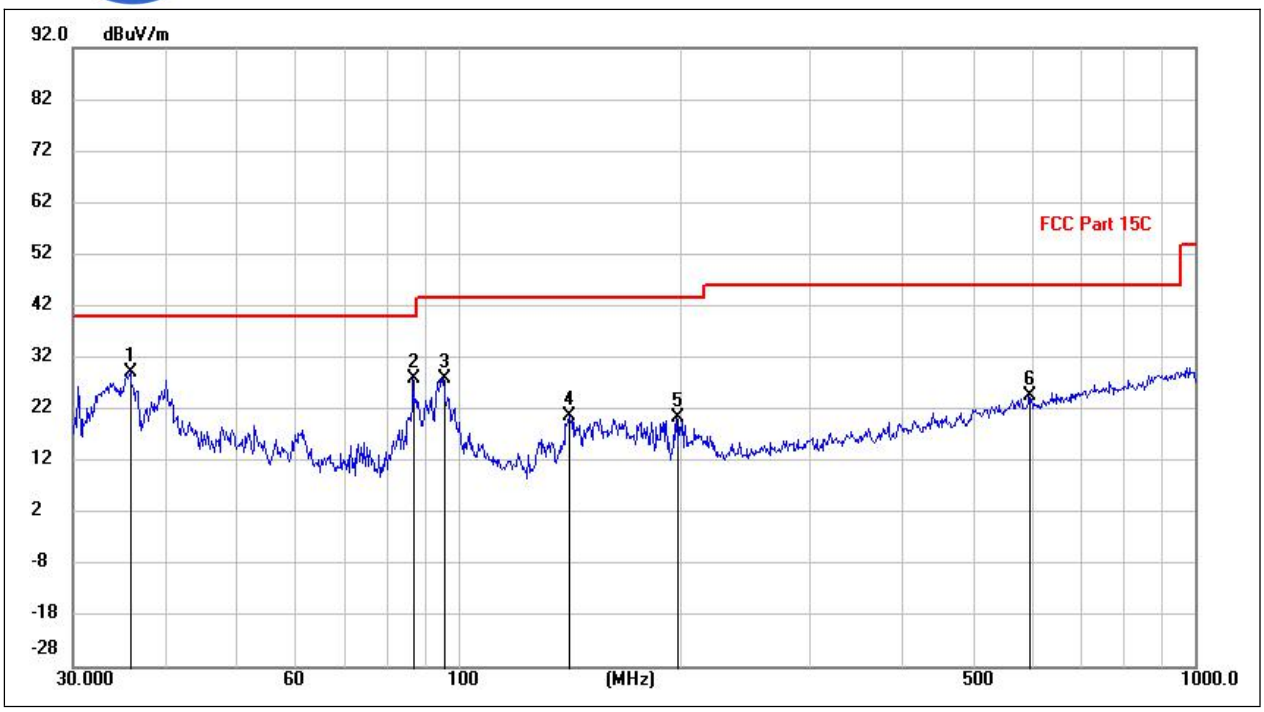
(802.11n_40M _2452MHz, Antenna Horizontal, 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1205.078	3.03	30.45	33.48	54.00	-20.52	AVG	PASS
1209.588	10.82	30.25	41.07	74.00	-32.93	peak	PASS
1388.252	11.83	31.51	43.34	74.00	-30.66	peak	PASS
1392.988	3.35	31.72	35.07	54.00	-18.93	AVG	PASS
1792.154	12.04	36.09	48.13	74.00	-25.87	peak	PASS
1804.204	3.41	36.50	39.91	54.00	-14.09	AVG	PASS
2004.554	2.94	37.35	40.29	54.00	-13.71	AVG	PASS
2006.757	11.87	37.23	49.10	74.00	-24.90	peak	PASS
2457.941	51.72	41.34	93.06	N/A	N/A	AVG	N/A
2463.077	59.57	41.53	101.10	N/A	N/A	peak	N/A
2755.598	12.43	43.81	56.24	74.00	-17.76	peak	PASS
2756.204	2.94	43.79	46.73	54.00	-7.27	AVG	PASS



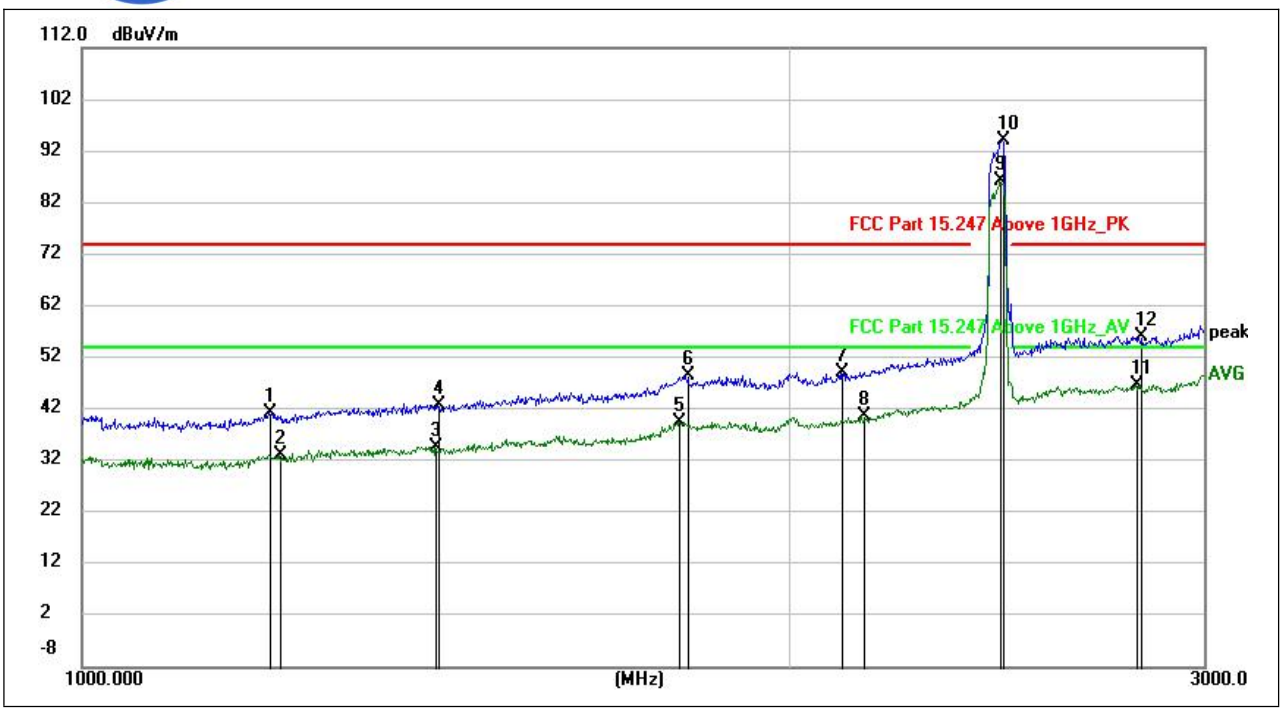
(802.11n_40M _2452MHz, Antenna Horizontal, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
4859.250	45.29	-2.96	42.33	74.00	-31.67	peak	PASS
4911.000	37.21	-2.69	34.52	54.00	-19.48	AVG	PASS
7235.250	36.21	-0.36	35.85	54.00	-18.15	AVG	PASS
7318.500	45.74	-0.24	45.50	74.00	-28.50	peak	PASS
9918.000	44.60	2.14	46.74	74.00	-27.26	peak	PASS
9957.750	36.35	2.03	38.38	54.00	-15.62	AVG	PASS
12387.000	42.68	4.39	47.07	74.00	-26.93	peak	PASS
12387.000	33.22	4.39	37.61	54.00	-16.39	AVG	PASS
14838.750	40.76	8.98	49.74	74.00	-24.26	peak	PASS
15009.750	31.45	10.72	42.17	54.00	-11.83	AVG	PASS
17112.000	32.35	11.92	44.27	54.00	-9.73	AVG	PASS
17168.250	40.49	12.65	53.14	74.00	-20.86	peak	PASS



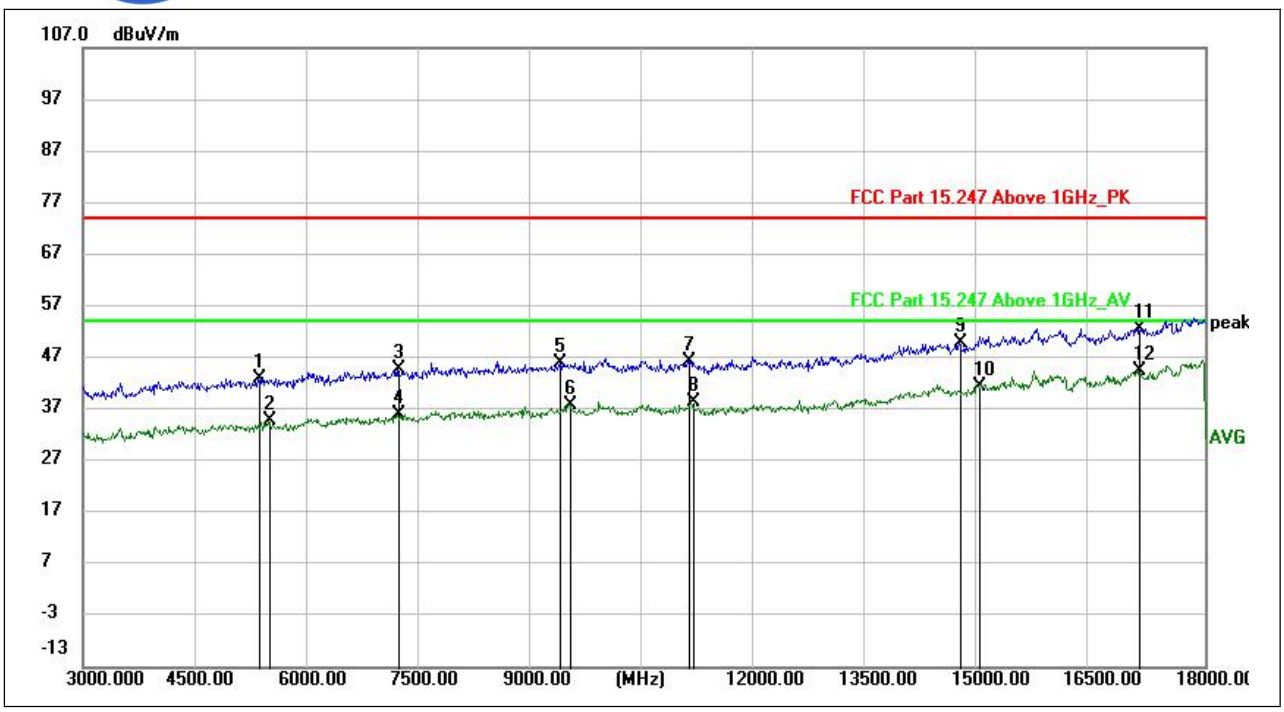
(802.11n_40M _2452MHz, Antenna Vertical, 30MHz to 1GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
35.9376	15.98	13.02	29.00	40.00	-11.00	peak	PASS
87.0659	16.60	11.27	27.87	40.00	-12.13	peak	PASS
95.5274	14.65	13.15	27.80	43.50	-15.70	peak	PASS
141.7268	9.11	11.53	20.64	43.50	-22.86	peak	PASS
198.1358	6.36	13.96	20.32	43.50	-23.18	peak	PASS
595.3416	1.00	23.61	24.61	46.00	-21.39	peak	PASS



(802.11n_40M _2452MHz, Antenna Vertical , 1GHz to 3GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
1202.235	10.58	30.59	41.17	74.00	-32.83	peak	PASS
1214.315	3.20	30.04	33.24	54.00	-20.76	AVG	PASS
1414.579	3.26	31.46	34.72	54.00	-19.28	AVG	PASS
1417.457	11.54	31.37	42.91	74.00	-31.09	peak	PASS
1795.701	3.18	36.45	39.63	54.00	-14.37	AVG	PASS
1809.464	12.26	36.14	48.40	74.00	-25.60	peak	PASS
2104.294	11.84	37.25	49.09	74.00	-24.91	peak	PASS
2148.916	2.89	37.66	40.55	54.00	-13.45	AVG	PASS
2458.616	44.83	41.36	86.19	N/A	N/A	AVG	N/A
2463.077	52.49	41.53	94.02	N/A	N/A	peak	N/A
2809.089	2.86	43.94	46.80	54.00	-7.20	AVG	PASS
2818.518	12.97	43.16	56.13	74.00	-17.87	peak	PASS



(802.11n_40M _2452MHz, Antenna Vertical, 3GHz to 18GHz)

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Verdict
5356.500	45.42	-2.47	42.95	74.00	-31.05	peak	PASS
5496.750	36.40	-1.75	34.65	54.00	-19.35	AVG	PASS
7221.000	45.23	-0.38	44.85	74.00	-29.15	peak	PASS
7226.250	36.39	-0.37	36.02	54.00	-17.98	AVG	PASS
9390.000	43.84	2.00	45.84	74.00	-28.16	peak	PASS
9508.500	35.74	2.02	37.76	54.00	-16.24	AVG	PASS
11095.500	43.22	3.15	46.37	74.00	-27.63	peak	PASS
11149.500	35.19	3.08	38.27	54.00	-15.73	AVG	PASS
14730.750	40.37	9.36	49.73	74.00	-24.27	peak	PASS
14975.250	31.51	9.96	41.47	54.00	-12.53	AVG	PASS
17121.000	39.80	12.76	52.56	74.00	-21.44	peak	PASS
17121.000	31.70	12.76	44.46	54.00	-9.54	AVG	PASS

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Peak Output Power	±2.22dB
Power spectral density (PSD)	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77 dB
Restricted Frequency Bands	±5%
Radiated Emission	±3.1dB
Conducted Emission	±1.8dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

Annex B Testing Laboratory Information

1..Identification of the Responsible Testing Laboratory

Laboratory Name:	Kehu-Morlab Test Laboratory
Laboratory Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China
Telephone:	+86-0592-5612050
Facsimile:	+86-0592-5612095

2. Identification of the Responsible Testing Location

Name:	Kehu-Morlab Test Laboratory
Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China

3. Accreditation Certificate

Accredited Testing Laboratory:	The FCC designation number is CN1249. (Kehu-Morlab Test Laboratory)

4. Test Equipments Utilized

4.1 Conducted Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Due Date
1	MXA Signal Analyzer	MY53421845	N9020A	Keysight	2021.03.08
2	RF cable (30MHz-26.5GHz)	RF01	N/A	Morlab	2021.03.06
3	Coaxial cable	RF02	N/A	Morlab	2021.03.06
4	SMA connector	RF03	N/A	Xingbo	2021.03.06

4.2 Conducted Emission Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Due Date
1	EMI Receiver	102174	ESR3	ESR3	2021.03.15
2	LISN	101338	ENV432	ENV432	2021.03.09
3	Pulse Limiter (10dB)	317	VTSD 9561 F	VTSD 9561 F	2021.03.13
4	Coaxial cable(BNC) (30MHz-3GHz)	EMC01	N/A	Morlab	2021.03.13

4.4 List of Software Used

No.	Model	Version Number	Producer	Test Item
1	EZ_EMC	V1.1.4.2	FARAD	RE
2	EMC32	V10.20.01	Rode&Schwarz	CE

4.5 Radiated Test Equipments

No.	Equipment Name	Serial No.	Model No.	Manufacturer	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	ETS-Lindgren	2022.07.20
2	Signal Analyzer	101294	FSV40	R&S	2021.03.02
3	Active Ring Antenna	FMZB 1513 #269	FMZB 1513	Schwarzbeck	2021.03.11
4	Linear Log Periodic Broad Band Antenna	949	VULB 9163	Schwarzbeck	2021.09.24
5	Ultra-Wideband Horn Antenna	102615	HF907	R&S	2022.01.18
6	Steatite Antennas	17868	QSH-SL-18-26-S-20	Seibersdorf	2021.03.23
7	RF Switch and Control Platform	N/A	RSC	CDSI	2021.03.11
8	Coaxial cable (N male) (9kHz -3GHz)	EMC02	N/A	Morlab	N/A
9	Coaxial cable (N male) (9kHz -3GHz)	EMC03	N/A	Morlab	2021.03.23
10	Coaxial cable (N male) (1GHz-26.5GHz)	EMC04	N/A	Morlab	2021.03.23
11	Coaxial cable (N male) (1GHz-26.5GHz)	EMC05	N/A	Morlab	2021.03.23
12	Pre-amplifier (1GHz-18GHz)	8810011	PAP-1G18	CDSI	2021.03.23
13	Pre-amplifier (18GHz-40GHz)	17021-17024	PAP-1840	CDSI	2021.03.23
14	Band stop Filter	EMC19	BJF2400/2485-60	CDSI	2021.03.23
15	High Pass Filter	EMC22	HFP-3.0/18G-60	CDSI	2021.03.23

END OF REPORT