Rode Liu Silm Chen Jumbers



FCC Part 15C Measurement and Test Report

For

SHENZHEN SIBO INDUSTRIAL & DEVELOPMENT CO., LTD

3A/F, Bld.27, Wisdomland Business Park Guankou No.2Rd, Nanshan District
Shenzhen China

FCC ID: 2AH6EQ896

FCC Rule(s): FCC Part 15C

Product Description: <u>Tablet PC</u>

Tested Model: Q896

Report No.: <u>STR16038188I-3</u>

Tested Date: <u>2016-03-24 to 2016-04-16</u>

Issued Date: <u>2016-04-16</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



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History of this report			
Version Description Date			
1.0	First Edition	2016-04-16	



1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: SHENZHEN SIBO INDUSTRIAL & DEVELOPMENT

CO., LTD

Address of applicant: 3A/F, Bld.27, Wisdomland Business Park Guankou

No.2Rd, Nanshan District Shenzhen China

Manufacturer: SHENZHEN SIBO INDUSTRIAL & DEVELOPMENT

CO., LTD

Address of manufacturer: 3A/F, Bld.27, Wisdomland Business Park Guankou

No.2Rd, Nanshan District Shenzhen China

General Description of EUT	
Product Name:	Tablet PC
Trade Name:	/
Model No.:	Q896
Adding Model(s):	Q896S/Q895/Q897/Q898
Rated Voltage:	Adapter 12V
Bower Adenter Medel:	THX-120150KD
Power Adapter Model:	Input:100-240V 50/60Hz; Output: DC 12V/1500mA

Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model Q896, but the circuit and the electronic construction do not change, declared by the manufacturer.

Technical Characteristics of EUT	•
Support Standards:	802.11b, 802.11g, 802.11n
Fraguency Pango:	2412-2462MHz for 802.11b/g/n(HT20)
Frequency Range:	2422-2452MHz for 802.11n(HT40)
RF Output Power:	8.73dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	0dBi
Lowest Internal Frequency	32.768kHz



1.2 Test Standards

The following report is prepared on behalf of the SHENZHEN SIBO INDUSTRIAL & DEVELOPMENT CO., LTD in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard for Testing Unlicensed Wireless Devices, and ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz. The measurement guide KDB 558074 D01 v03r05 for digital transmission systems shall be performed also.

1.4 Table for parameters of Test Software setting

The test utility software used during testing was "RtkWiFiTest_20140714A". Install the APP into the device, turn on "WLAN TEST APK" on the desktop of device. Click "MP Test" and then "Start Tx". During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

	Test Frequency (MHz)			
Mode	NCB: 20MHz			
	2412 2437 2462			
802.11b-1Mbps	36 36 36			
802.11g-6Mbps	40 40 40			
802.11n-HT20-MCS0	40 40 40			
	Test Frequency (MHz)			
Mode	NCB: 40MHz			
	2422 2437 2452			
802.11n-HT40-MCS0	40 40 40			

1.5 EUT Operating during test

EUT was programmed to be in continuously transmitting mode. During the test, EUT operation to normal function and programs under Android were executed.

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1.6 Test Facility

FCC – Registration No.: 934118

Shenzhen SEM.Test Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is 934118.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Shenzhen SEM. Test Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

CNAS Registration No.: L4062

Shenzhen SEM. Test Technology Co., Ltd. is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L4062. All measurement facilities used to collect the measurement data are located at 1/F, Building A, Hongwei Industrial Park, Liuxian 2nd Road, Bao'an District, Shenzhen, P.R.C (518101).

1.7 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List			
Test Mode	Description	Remark	
TM1	802.11b	2412MHz, 2437MHz, 2462MHz	
TM2	802.11g	2412MHz, 2437MHz, 2462MHz	
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz	
TM4	802.11n-HT40	2422MHz, 2437MHz, 2452MHz	

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details				
Cable Description Length (m) Shielded/Unshielded With / Without Ferrite				
/	/	/	/	

Auxiliary Equipment List and Details				
Description Manufacturer Model Serial Number				
/	/	/	/	

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1.8 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Power Spectral Density	Conducted	±1.8dB
Conducted Emissions	Conducted	±2.88dB
Transmitter Spurious Emissions	Radiated	±5.1dB

1.9 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal Date	Due Date
Spectrum Analyzer	Agilent	E4407B	MY41440400	2015-06-17	2016-06-16
Spectrum Analyzer	Rohde & Schwarz	FSP	836079/035	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-06-17	2016-06-16
Amplifier	Agilent	8447F	3113A06717	2015-06-17	2016-06-16
Amplifier	C&D	PAP-1G18	2002	2015-06-17	2016-06-16
Broadband Antenna	Schwarz beck	VULB9163	9163-333	2015-06-17	2016-06-16
Horn Antenna	ETS	3117	00086197	2015-06-17	2016-06-16
Horn Antenna	ETS	3116B	00088203	2015-06-17	2016-06-16
Loop Antenna	Schwarz beck	FMZB 1516	9773	2015-06-17	2016-06-16
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-06-17	2016-06-16
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-06-17	2016-06-16
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2015-06-17	2016-06-16



2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 2.1093	RF Exposure	Compliant
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	Compliant
§ 15.207(a)	Conducted Emission	Compliant
§ 15.247(e)	Power Spectral Density	Compliant
§ 15.247(a)(2)	6 dB Bandwidth	Compliant
§ 15.247(b)(3)	RF Output Power	Compliant
§ 15.209(a)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: not applicable



3. RF Exposure

3.1 Standard Applicable

According to § 1.1307 and § 2.1093, the portable transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.



4. Antenna Requirement

4.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

4.2 Evaluation Information

This product has an integral antenna, fulfill the requirement of this section.



5. Power Spectral Density

5.1 Standard Applicable

According to 15.247(a)(1)(iii), For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Procedure

According to the KDB 558074 D01 v03r05, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW ≥ 3 x RBW.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \text{ x span/RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

5.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar



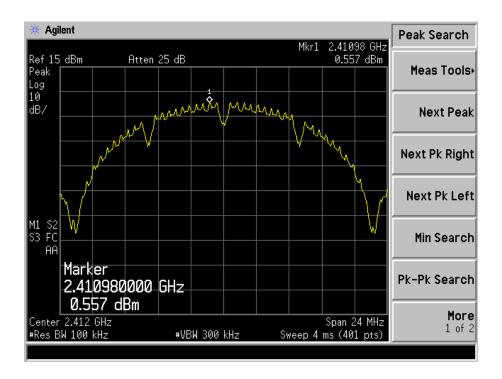
5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/100kHz	Limit dBm/3kHz	
	2412	0.557	8	
802.11b	2437	0.283	8	
	2462	-0.259	8	
	2412	-5.362	8	
802.11g	2437	-5.925	8	
	2462	-6.465	8	
802.11n HT20	2412	-6.979	8	
	2437	-7.321	8	
	2462	-7.962	8	
	2422	-6.037	8	
802.11n HT40	2437	-10.59	8	
	2452	-7.124	8	

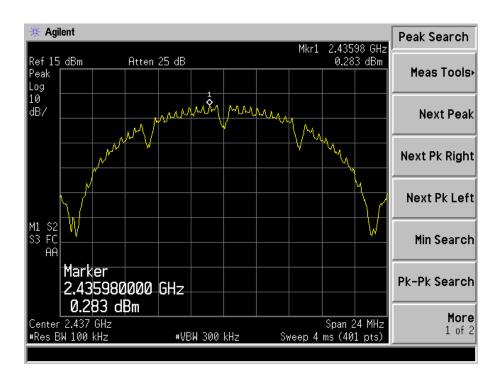
Please refer to the following test plots:



802.11b-Low Channel

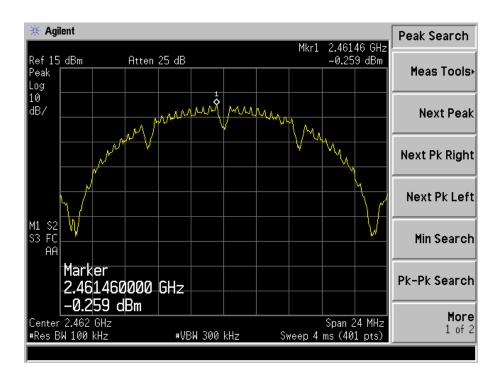


802.11b-Middle Channel

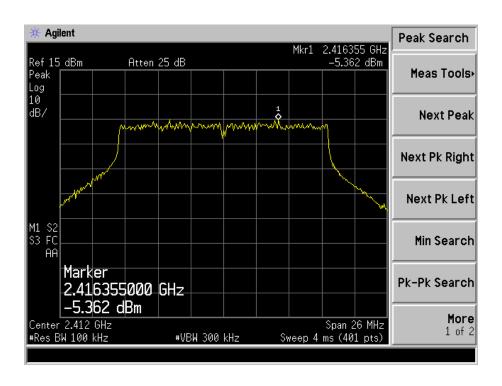




802.11b-High Channel

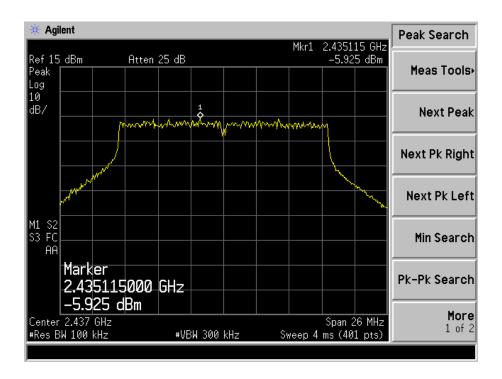


802.11g-Low Channel

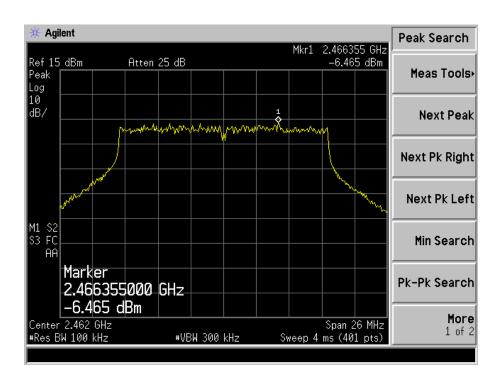




802.11g-Middle Channel

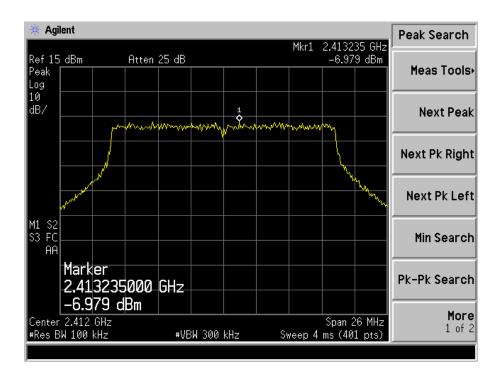


802.11g-High Channel

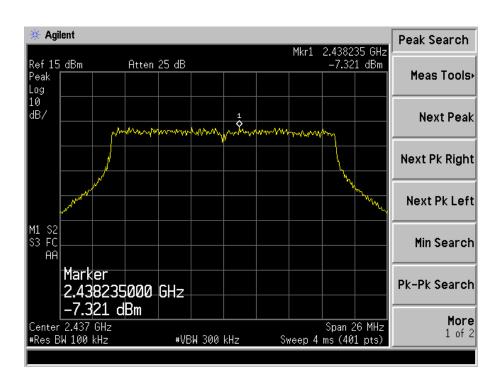




802.11n-HT20-Low Channel

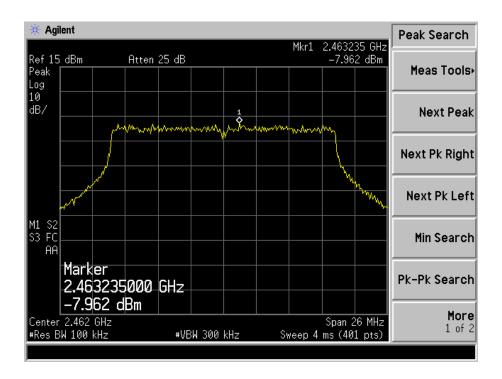


802.11n-HT20-Middle Channel

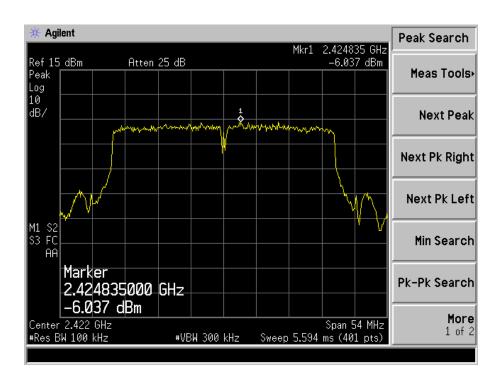




802.11n-HT20-High Channel

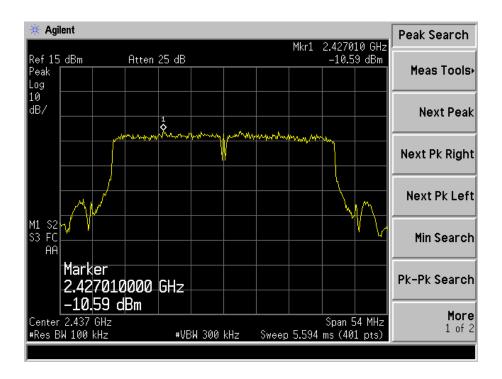


802.11n-HT40-Low Channel

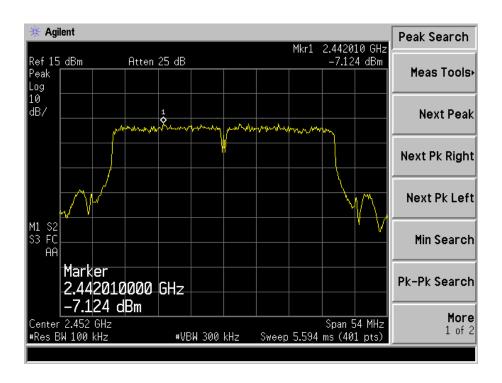




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





6. 6dB Bandwidth

6.1 Standard Applicable

According to 15.247(a)(2). Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

6.2 Test Procedure

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) \geq 3 \times RBW.
- c) Detector = Peak.
- d) Trace mode = \max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 Environmental Conditions

Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

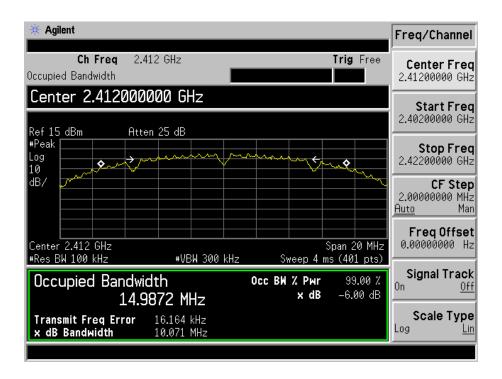
6.4 Summary of Test Results/Plots

Test Mode	Test Channel	6 dB Bandwidth	99% Bandwidth	Limit
lest whole	MHz	kHz	kHz	kHz
	2412	10071	14987.2	≥500
802.11b	2437	10059	15004.4	≥500
	2462	10083	15003.8	≥500
	2412	16579	16460.0	≥500
802.11g	2437	16585	16462.8	≥500
	2462	16566	16451.7	≥500
	2412	17821	17651.0	≥500
802.11n-HT20	2437	17836	17659.6	≥500
	2462	17824	17655.4	≥500
	2422	35748	36003.5	≥500
802.11n-HT40	2437	36400	36067.9	≥500
	2452	36424	36113.6	≥500

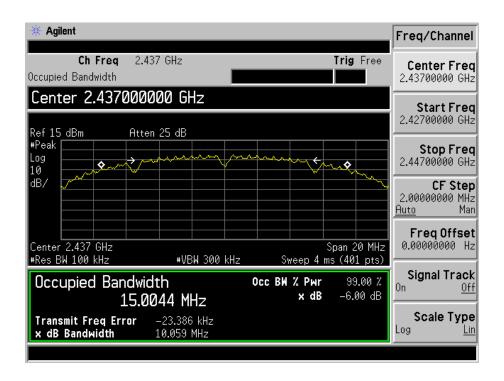
Please refer to the following test plots:



802.11b-Low Channel

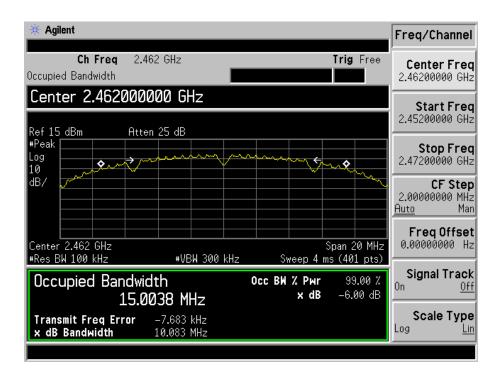


802.11b-Middle Channel

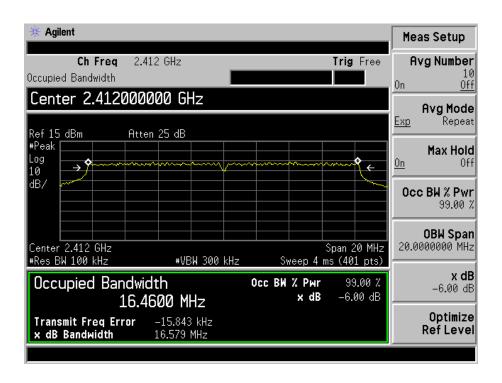




802.11b-High Channel

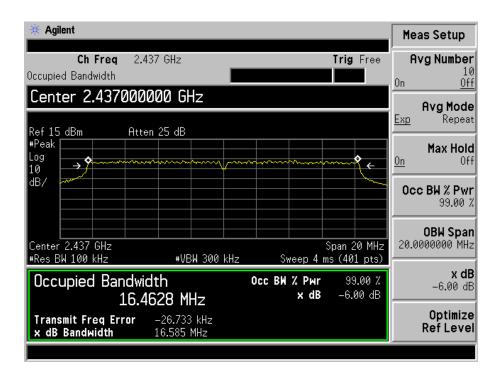


802.11g-Low Channel

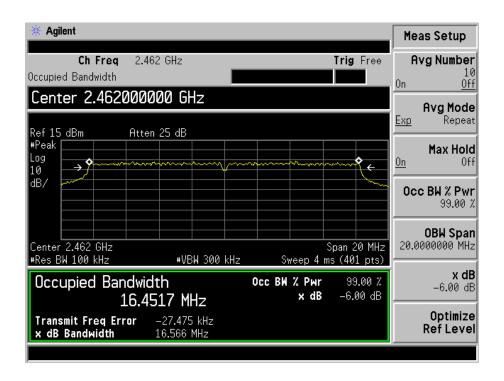




802.11g-Middle Channel

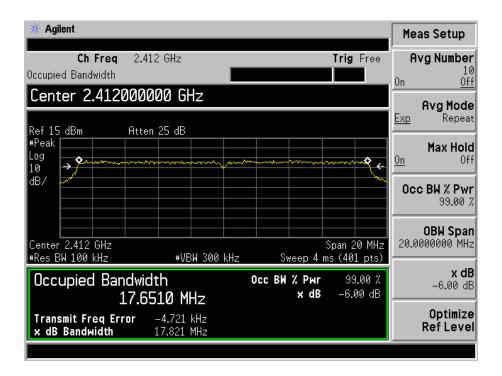


802.11g-High Channel

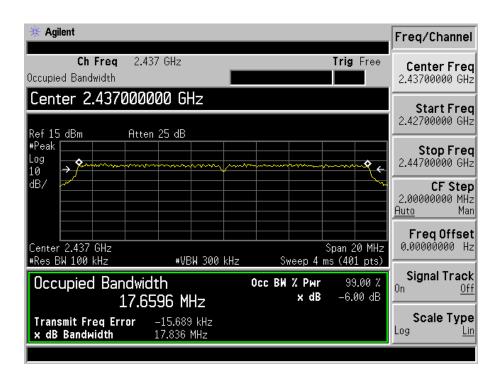




802.11n-HT20-Low Channel



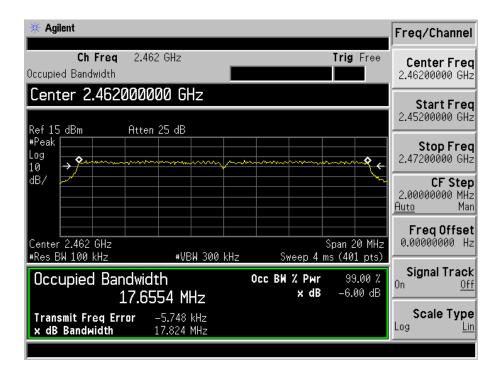
802.11n-HT20-Middle Channel



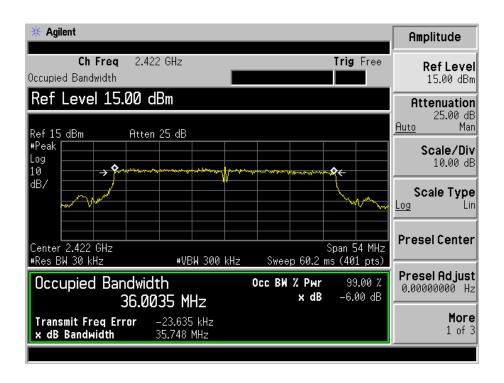
FCC PART 15.247



802.11n-HT20-High Channel

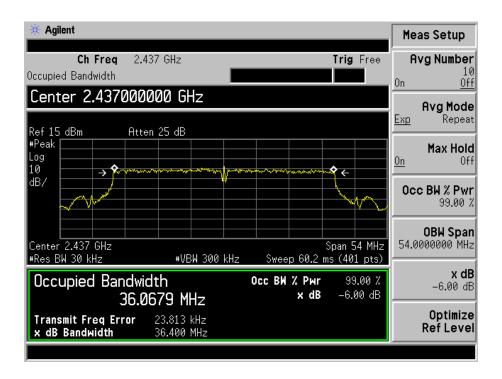


802.11n-HT40-Low Channel

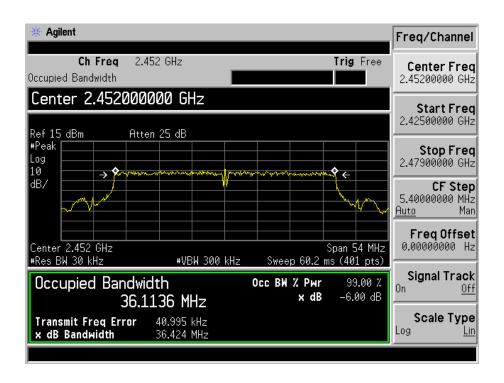




802.11n-HT40-Middle Channel



802.11n-HT40-High Channel





7. RF Output Power

7.1 Standard Applicable

According to 15.247(b)(3). For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

7.2 Test Procedure

According to the KDB-558074 D01 v03r05, 9.2.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times RBW$.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.3 Environmental Conditions

Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar



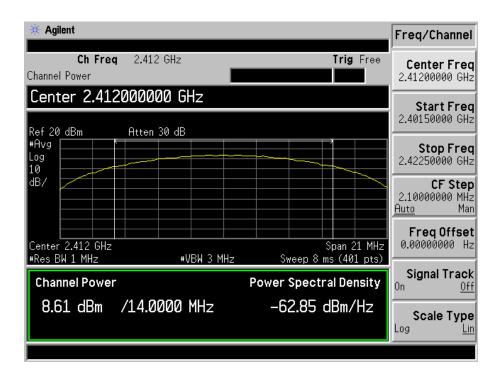
7.4 Summary of Test Results/Plots

Test Mede	Frequency	Reading	Output Power	Limit	
Test Mode	MHz	dBm	mW	mW	
	2412	8.61	7.26	1000	
802.11b _ 11Mbps	2437	8.73	7.46	1000	
	2462	8.10	6.46	1000	
	2412	6.42	6.42 4.39		
802.11g_54Mbps	2437	6.72	4.70	1000	
	2462	6.01	3.99	1000	
	2412	5.29	3.38	1000	
802.11n HT20_MCS7)2.11n HT20_MCS7 2437		3.51	1000	
	2462	4.34	2.72	1000	
	2422		2.38	1000	
802.11n HT40_MCS7	2437	3.65	2.32	1000	
	2452	3.24	2.11	1000	

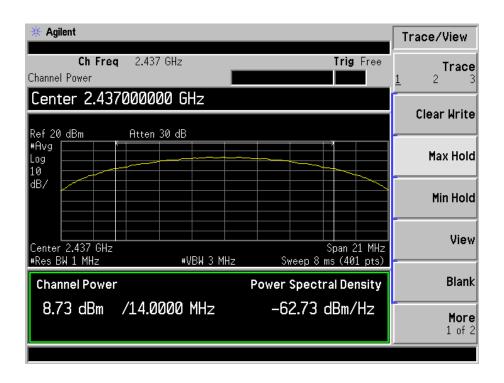
Please refer to the following test plots:



802.11b-11Mbps-Low Channel

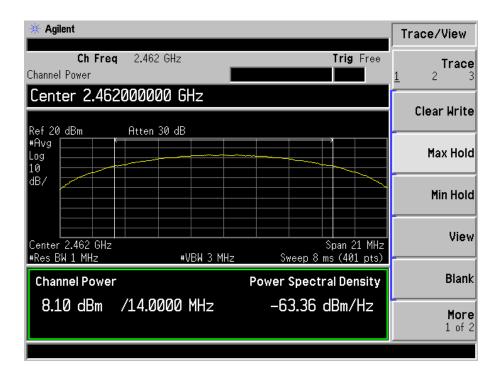


802.11b -11Mbps-Middle Channel

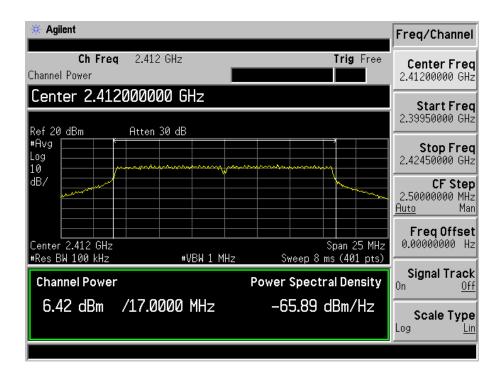




802.11b -11Mpbs-High Channel

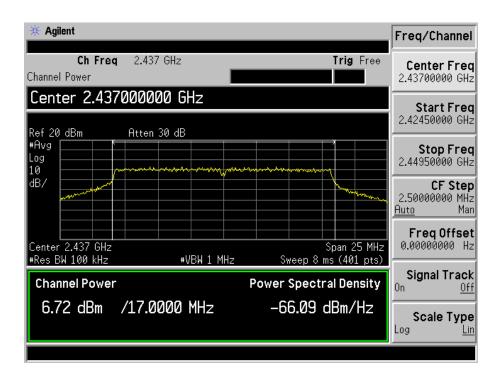


802.11g-54Mbps-Low Channel

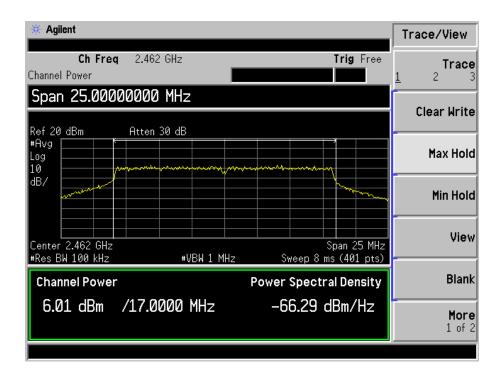




802.11g-54Mbps-Middle Channel

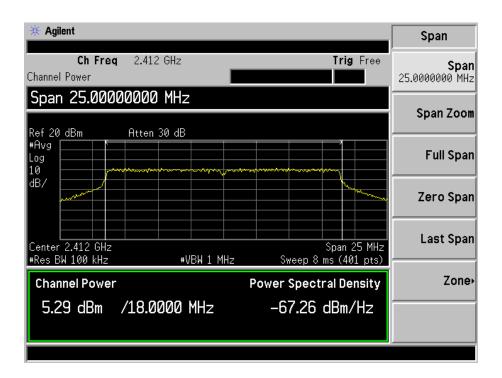


802.11g-54Mpbs-High Channel

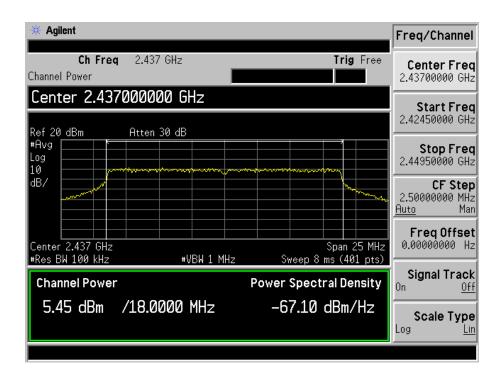




802.11n-HT20-MCS7-Low Channel

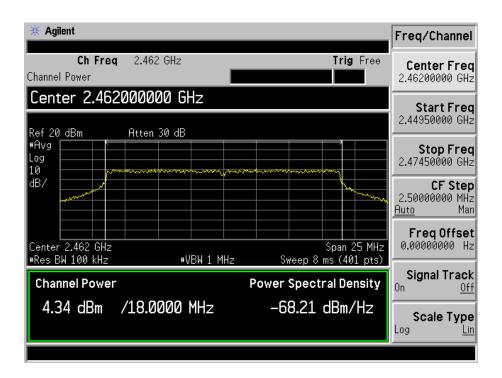


802.11n-HT20-MCS7-Middle Channel

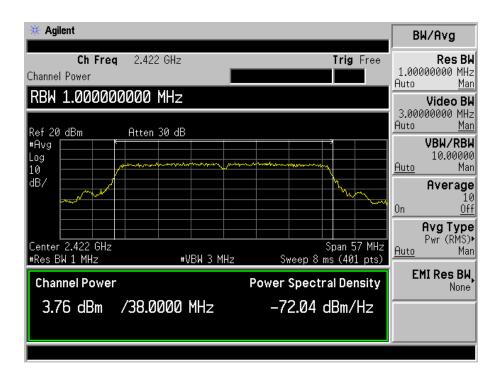




802.11n-HT20-MCS7-High Channel

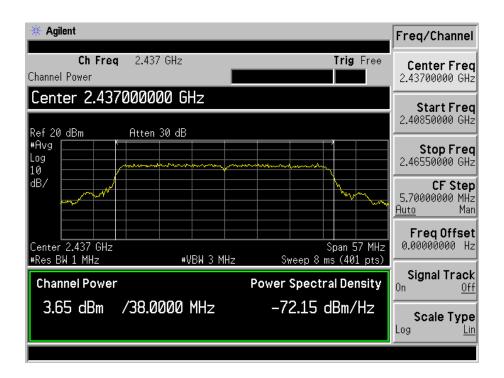


802.11n-HT40-MCS7-Low Channel

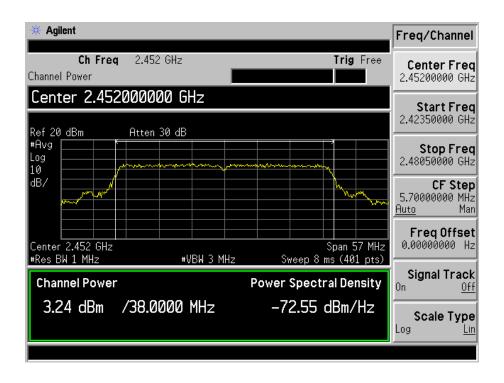




802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel





8. Field Strength of Spurious Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

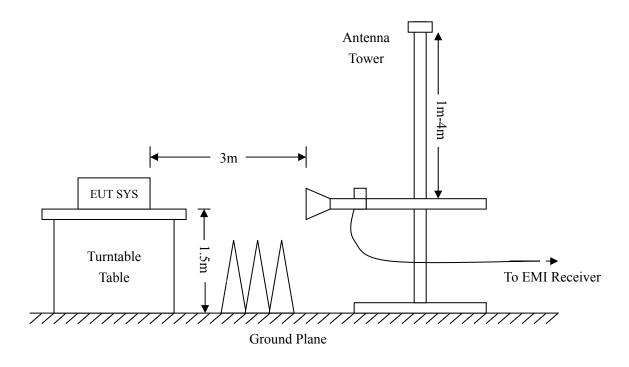
8.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.







Frequency:9kHz-30MHz	Frequency:30MHz-1GHz	Frequency: Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW = 30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	$Trace = \max hold$
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

8.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of $-6dB\mu V$ means the emission is $6dB\mu V$ below the maximum limit. The equation for margin calculation is as follows:

8.4 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar



8.5 Summary of Test Results/Plots

According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

Note: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

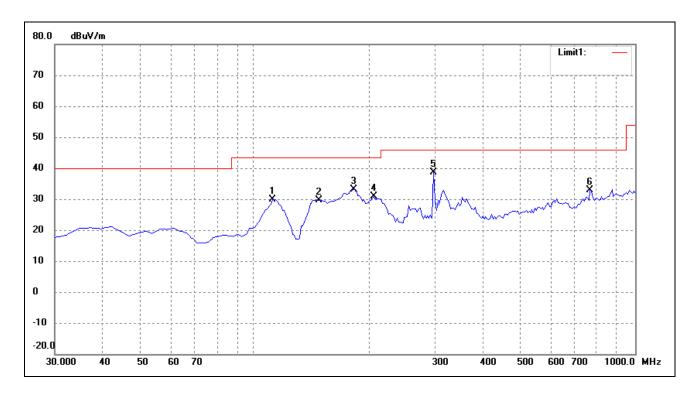
Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet PC
Tested Model: Q896

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

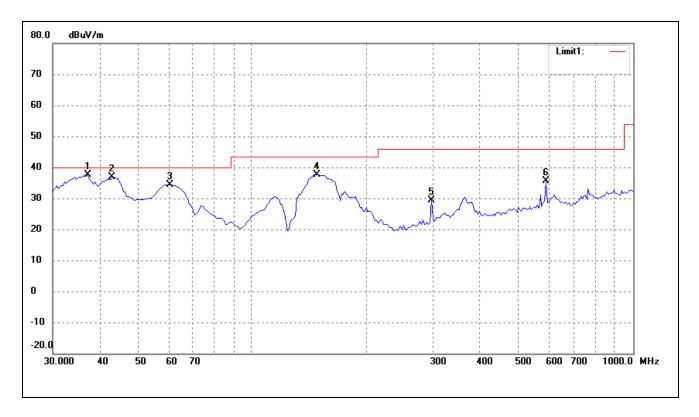
Comment: AC120V/60Hz Adapter DC 12V

Test Specification: Horizontal



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	112.4500	41.19	-11.23	29.96	43.50	-13.54	254	100	peak
2	148.8250	42.12	-12.44	29.68	43.50	-13.82	113	100	peak
3	182.7750	44.15	-10.98	33.17	43.50	-10.33	284	100	peak
4	207.0250	39.56	-8.72	30.84	43.50	-12.66	360	100	peak
5	296.7500	44.39	-5.72	38.67	46.00	-7.33	100	100	peak
6	767.2000	30.56	2.20	32.76	46.00	-13.24	100	100	peak



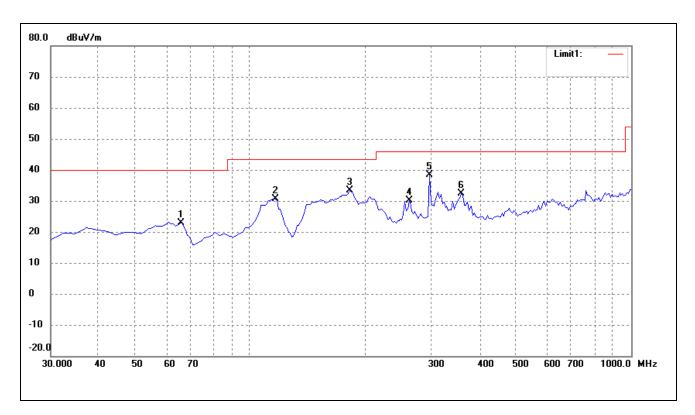


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	46.15	-8.41	37.74	40.00	-2.26	114	100	peak
2	42.9750	44.77	-7.86	36.91	40.00	-3.09	270	100	peak
3	61.5250	44.50	-10.08	34.42	40.00	-5.58	360	100	peak
4	148.8250	50.18	-12.44	37.74	43.50	-5.76	116	100	peak
5	296.7500	35.22	-5.72	29.50	46.00	-16.50	100	100	peak
6	595.0250	35.86	-0.34	35.52	46.00	-10.48	100	100	peak



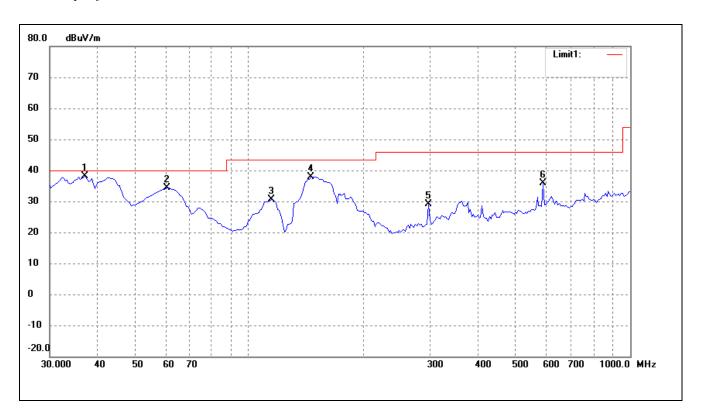
Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	66.3750	34.55	-11.65	22.90	40.00	-17.10	178	100	peak
2	117.3000	42.08	-11.37	30.71	43.50	-12.79	224	100	peak
3	182.7750	44.40	-10.98	33.42	43.50	-10.08	160	100	peak
4	262.8000	36.91	-6.83	30.08	46.00	-15.92	290	100	peak
5	296.7500	44.08	-5.72	38.36	46.00	-7.64	100	100	peak
6	359.8000	35.63	-3.27	32.36	46.00	-13.64	100	100	peak



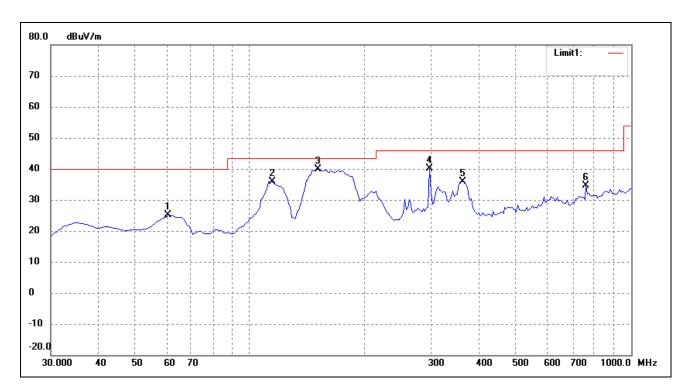


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	46.52	-8.41	38.11	40.00	-1.89	256	100	peak
2	61.5250	44.47	-10.08	34.39	40.00	-5.61	360	100	peak
3	114.8750	41.91	-11.29	30.62	43.50	-12.88	360	100	peak
4	146.4000	50.36	-12.47	37.89	43.50	-5.61	360	100	peak
5	296.7500	34.90	-5.72	29.18	46.00	-16.82	100	100	peak
6	595.0250	36.31	-0.34	35.97	46.00	-10.03	100	100	peak



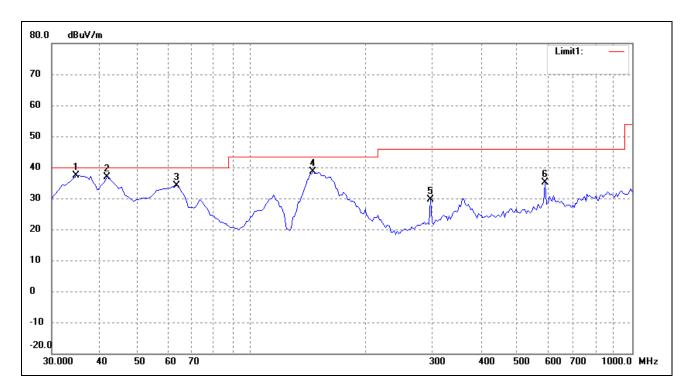
Operating Condition: 802.11b Transmitting High Channel-2462MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	35.27	-10.08	25.19	40.00	-14.81	176	100	peak
2	114.8750	47.14	-11.29	35.85	43.50	-7.65	255	100	peak
3	151.2500	52.28	-12.41	39.87	43.50	-3.63	360	100	peak
4	296.7500	45.78	-5.72	40.06	46.00	-5.94	178	100	peak
5	362.2250	39.05	-3.13	35.92	46.00	-10.08	100	100	peak
6	767.2000	32.46	2.20	34.66	46.00	-11.34	100	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	34.8500	46.50	-9.08	37.42	40.00	-2.58	360	100	peak
2	42.1250	44.70	-7.81	36.89	40.00	-3.11	225	100	peak
3	63.9500	45.04	-10.86	34.18	40.00	-5.82	160	100	peak
4	146.4000	51.07	-12.47	38.60	43.50	-4.90	310	100	peak
5	296.7500	35.32	-5.72	29.60	46.00	-16.40	100	100	peak
6	595.0250	35.59	-0.34	35.25	46.00	-10.75	100	100	peak

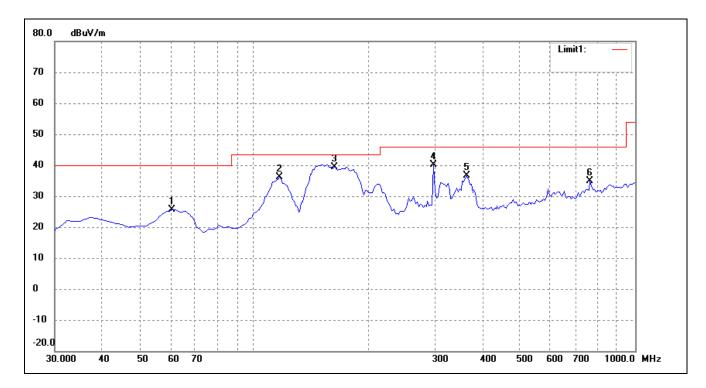


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet PC
Tested Model: Q896

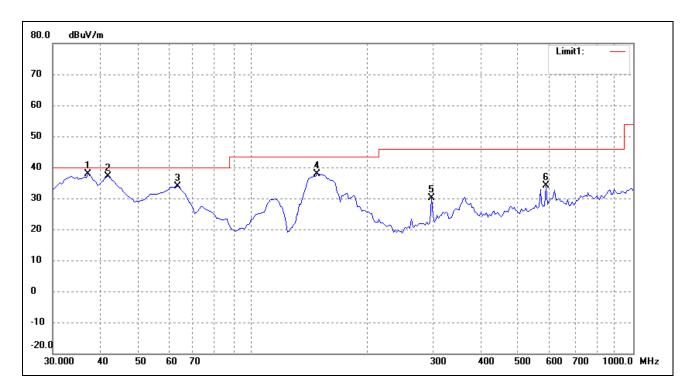
Operating Condition: 802.11g Transmitting Low Channel-2412MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	35.78	-10.08	25.70	40.00	-14.30	174	100	peak
2	117.3000	47.40	-11.37	36.03	43.50	-7.47	160	100	peak
3	163.3750	51.50	-12.12	39.38	43.50	-4.12	320	100	peak
4	296.7500	45.96	-5.72	40.24	46.00	-5.76	360	100	peak
5	362.2250	39.71	-3.13	36.58	46.00	-9.42	100	100	peak
6	767.2000	32.80	2.20	35.00	46.00	-11.00	100	100	peak



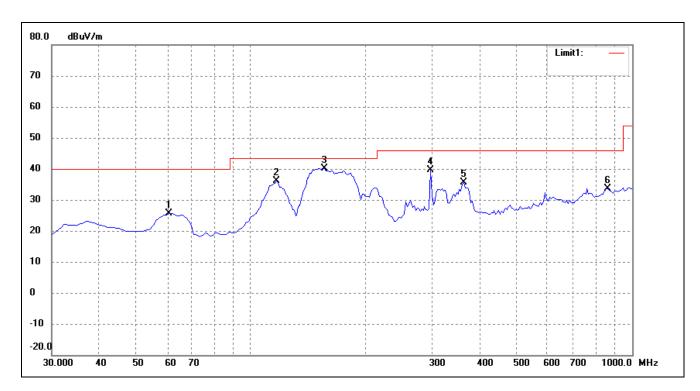


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	46.35	-8.41	37.94	40.00	-2.06	177	100	peak
2	42.1250	44.95	-7.81	37.14	40.00	-2.86	90	100	peak
3	63.9500	44.64	-10.86	33.78	40.00	-6.22	336	100	peak
4	148.8250	50.27	-12.44	37.83	43.50	-5.67	360	100	peak
5	296.7500	35.78	-5.72	30.06	46.00	-15.94	100	100	peak
6	595.0250	34.43	-0.34	34.09	46.00	-11.91	100	100	peak



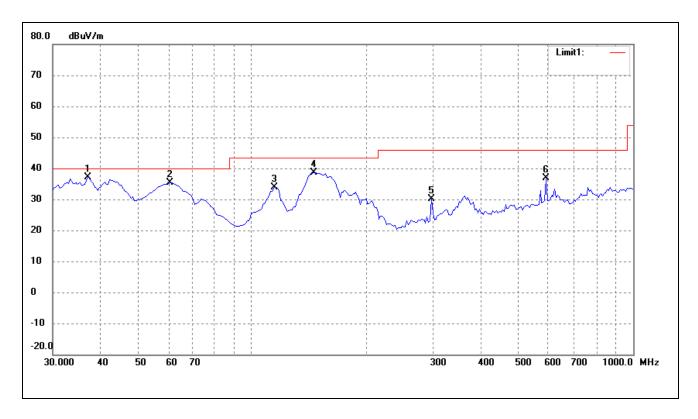
Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	35.78	-10.08	25.70	40.00	-14.30	270	100	peak
2	117.3000	47.40	-11.37	36.03	43.50	-7.47	164	100	peak
3	156.1000	52.53	-12.33	40.20	43.50	-3.30	228	200	peak
4	296.7500	45.45	-5.72	39.73	46.00	-6.27	130	200	peak
5	362.2250	38.73	-3.13	35.60	46.00	-10.40	360	100	peak
6	864.2000	30.68	2.97	33.65	46.00	-12.35	360	100	peak



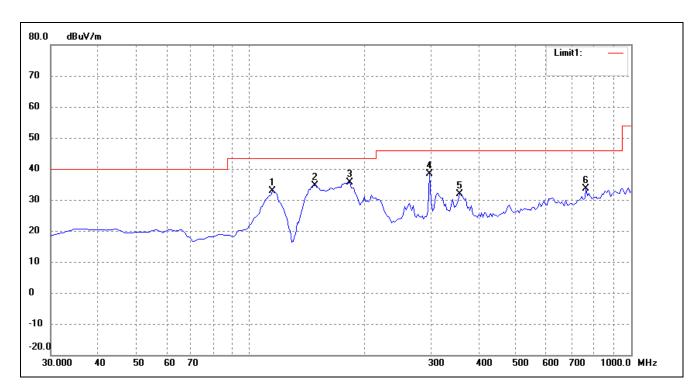


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	45.60	-8.41	37.19	40.00	-2.81	360	100	peak
2	61.5250	45.36	-10.08	35.28	40.00	-4.72	255	100	peak
3	114.8750	45.23	-11.29	33.94	43.50	-9.56	270	100	peak
4	146.4000	51.13	-12.47	38.66	43.50	-4.84	180	100	peak
5	296.7500	35.78	-5.72	30.06	46.00	-15.94	100	100	peak
6	595.0250	37.24	-0.34	36.90	46.00	-9.10	100	100	peak



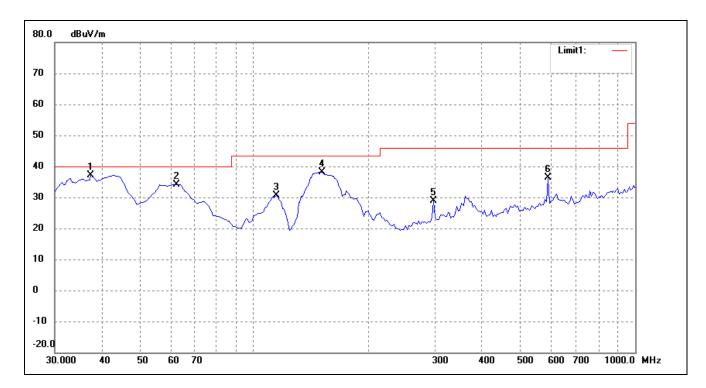
Operating Condition: 802.11g Transmitting High Channel-2462MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	114.8750	44.09	-11.29	32.80	43.50	-10.70	270	100	peak
2	148.8250	47.07	-12.44	34.63	43.50	-8.87	51	200	peak
3	182.7750	46.73	-10.98	35.75	43.50	-7.75	360	200	peak
4	296.7500	44.09	-5.72	38.37	46.00	-7.63	360	100	peak
5	357.3750	35.37	-3.48	31.89	46.00	-14.11	100	100	peak
6	767.2000	31.36	2.20	33.56	46.00	-12.44	100	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.3509	45.40	-8.39	37.01	40.00	-2.99	360	100	peak
2	62.6507	44.57	-10.44	34.13	40.00	-5.87	180	100	peak
3	114.8750	41.96	-11.29	30.67	43.50	-12.83	225	100	peak
4	151.2500	50.54	-12.41	38.13	43.50	-5.37	67	100	peak
5	296.7500	34.59	-5.72	28.87	46.00	-17.13	100	100	peak
6	595.0250	36.71	-0.34	36.37	46.00	-9.63	100	100	peak

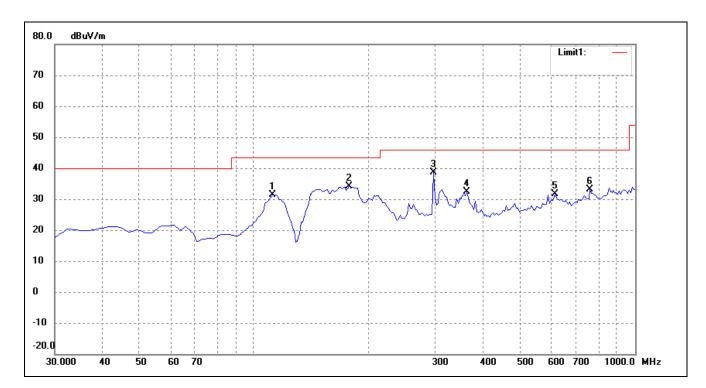


Plot of Radiated Emissions Test Data (30MHz to 1GHz)

EUT: Tablet PC
Tested Model: Q896

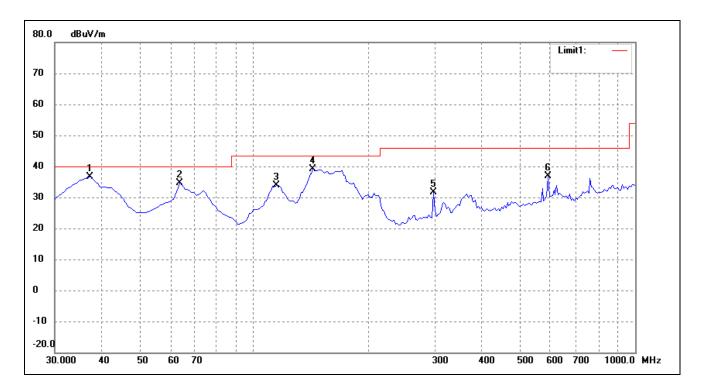
Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	112.4500	42.66	-11.23	31.43	43.50	-12.07	260	100	peak
2	177.9250	45.54	-11.45	34.09	43.50	-9.41	131	200	peak
3	296.7500	44.45	-5.72	38.73	46.00	-7.27	285	200	peak
4	362.2250	35.41	-3.13	32.28	46.00	-13.72	224	100	peak
5	621.7000	30.51	1.19	31.70	46.00	-14.30	100	100	peak
6	767.2000	30.92	2.20	33.12	46.00	-12.88	100	100	peak



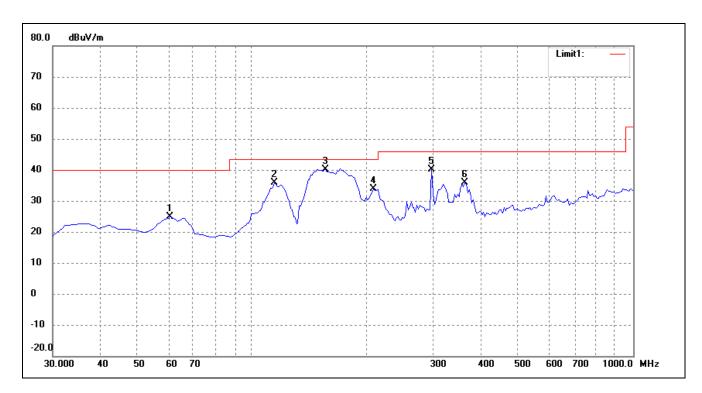


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	45.12	-8.41	36.71	40.00	-3.29	155	100	peak
2	63.9500	45.57	-10.86	34.71	40.00	-5.29	197	100	peak
3	114.8750	45.23	-11.29	33.94	43.50	-9.56	310	100	peak
4	143.9750	51.64	-12.50	39.14	43.50	-4.36	229	100	peak
5	296.7500	37.47	-5.72	31.75	46.00	-14.25	130	100	peak
6	595.0250	37.24	-0.34	36.90	46.00	-9.10	100	100	peak



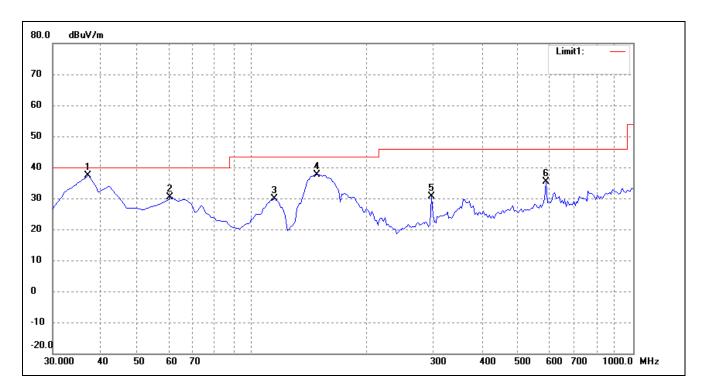
Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2437MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	34.88	-10.08	24.80	40.00	-15.20	274	100	peak
2	114.8750	47.09	-11.29	35.80	43.50	-7.70	116	100	peak
3	156.1000	52.47	-12.33	40.14	43.50	-3.36	82	100	peak
4	209.4500	42.56	-8.74	33.82	43.50	-9.68	134	100	peak
5	296.7500	45.80	-5.72	40.08	46.00	-5.92	100	100	peak
6	364.6500	38.78	-2.98	35.80	46.00	-10.20	100	100	peak



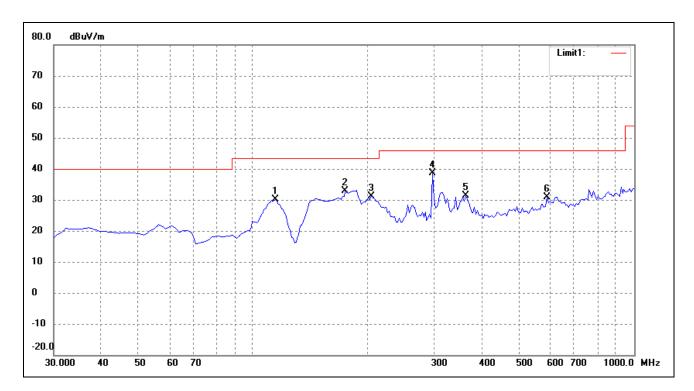


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	45.86	-8.41	37.45	40.00	-2.55	264	100	peak
2	61.5250	40.37	-10.08	30.29	40.00	-9.71	110	100	peak
3	114.8750	41.08	-11.29	29.79	43.50	-13.71	136	100	peak
4	148.8250	50.08	-12.44	37.64	43.50	-5.86	90	100	peak
5	296.7500	36.46	-5.72	30.74	46.00	-15.26	100	100	peak
6	595.0250	35.69	-0.34	35.35	46.00	-10.65	100	100	peak



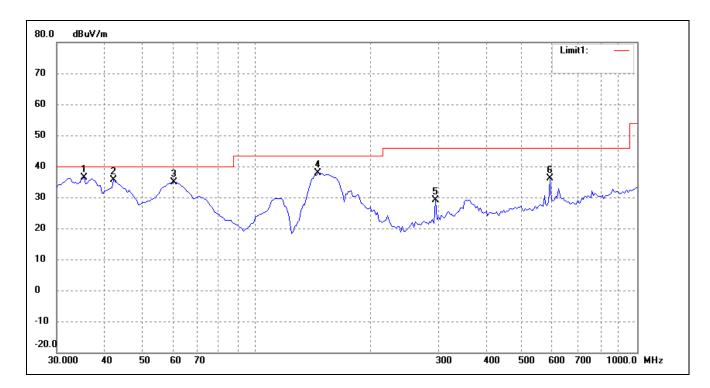
Operating Condition: 802.11n-HT20 Transmitting High Channel-2462MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	114.8750	41.30	-11.29	30.01	43.50	-13.49	360	100	peak
2	175.5000	44.55	-11.57	32.98	43.50	-10.52	112	100	peak
3	204.6000	39.80	-8.69	31.11	43.50	-12.39	180	200	peak
4	296.7500	44.45	-5.72	38.73	46.00	-7.27	270	200	peak
5	362.2250	34.48	-3.13	31.35	46.00	-14.65	100	100	peak
6	595.0250	31.30	-0.34	30.96	46.00	-15.04	100	100	peak





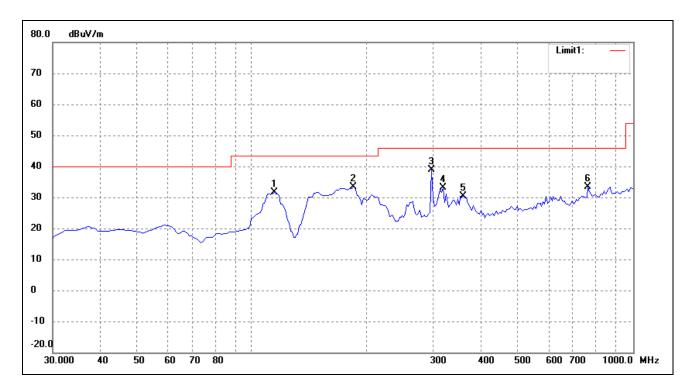
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	35.4371	45.42	-8.92	36.50	40.00	-3.50	267	100	peak
2	42.2281	43.44	-7.81	35.63	40.00	-4.37	116	100	peak
3	61.5250	45.00	-10.08	34.92	40.00	-5.08	360	100	peak
4	146.4000	50.31	-12.47	37.84	43.50	-5.66	228	100	peak
5	296.7500	34.93	-5.72	29.21	46.00	-16.79	270	100	peak
6	595.0250	36.39	-0.34	36.05	46.00	-9.95	100	100	peak



EUT: Tablet PC
Tested Model: Q896

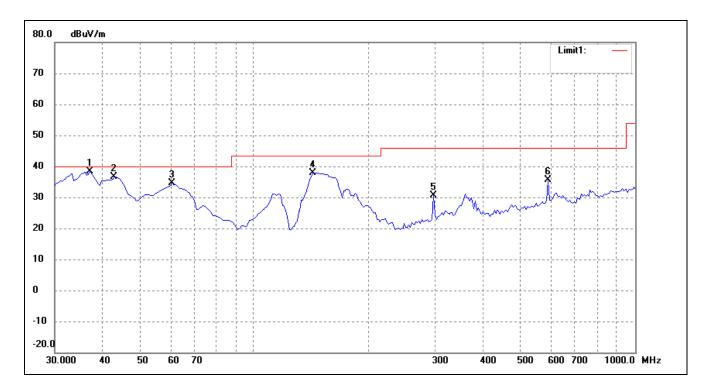
Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	114.8750	43.03	-11.29	31.74	43.50	-11.76	267	100	peak
2	185.2000	44.07	-10.66	33.41	43.50	-10.09	114	200	peak
3	296.7500	44.56	-5.72	38.84	46.00	-7.16	35	200	peak
4	318.5750	37.87	-4.70	33.17	46.00	-12.83	81	100	peak
5	359.8000	33.71	-3.27	30.44	46.00	-15.56	100	100	peak
6	767.2000	31.15	2.20	33.35	46.00	-12.65	100	100	peak



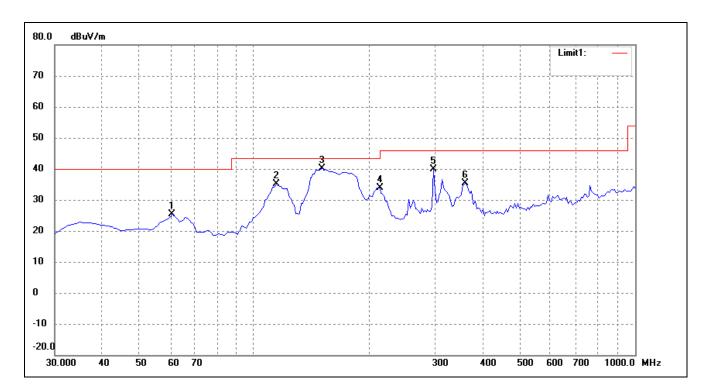


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	46.74	-8.41	38.33	40.00	-1.67	360	100	peak
2	42.9750	44.59	-7.86	36.73	40.00	-3.27	258	100	peak
3	61.5250	44.64	-10.08	34.56	40.00	-5.44	347	100	peak
4	143.9750	50.50	-12.50	38.00	43.50	-5.50	270	100	peak
5	296.7500	36.32	-5.72	30.60	46.00	-15.40	90	100	peak
6	595.0250	36.05	-0.34	35.71	46.00	-10.29	100	100	peak



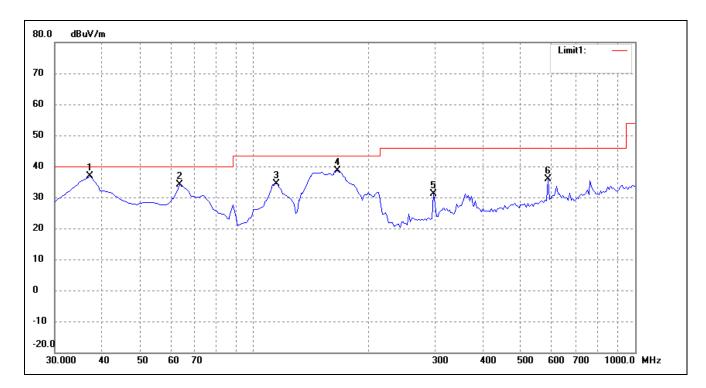
Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2437MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	35.39	-10.08	25.31	40.00	-14.69	251	100	peak
2	114.8750	46.33	-11.29	35.04	43.50	-8.46	167	100	peak
3	151.2500	52.48	-12.41	40.07	43.50	-3.43	44	100	peak
4	214.3000	42.72	-8.78	33.94	43.50	-9.56	130	100	peak
5	296.7500	45.51	-5.72	39.79	46.00	-6.21	100	100	peak
6	359.8000	38.66	-3.27	35.39	46.00	-10.61	100	100	peak



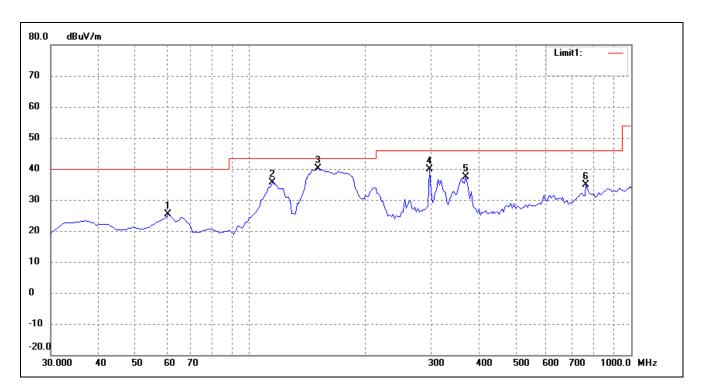


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	45.24	-8.41	36.83	40.00	-3.17	100	100	peak
2	63.9500	44.98	-10.86	34.12	40.00	-5.88	264	100	peak
3	114.8750	45.79	-11.29	34.50	43.50	-9.00	225	100	peak
4	165.8000	50.52	-12.01	38.51	43.50	-4.99	180	100	peak
5	296.7500	36.97	-5.72	31.25	46.00	-14.75	315	100	peak
6	595.0250	36.34	-0.34	36.00	46.00	-10.00	100	100	peak



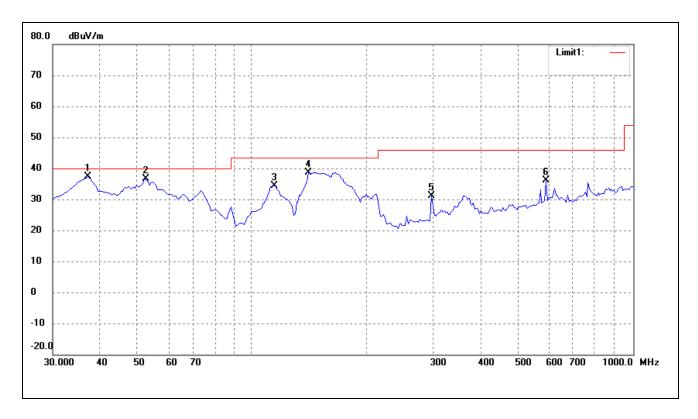
Operating Condition: 802.11n-HT40 Transmitting High Channel-2452MHz

Comment: AC120V/60Hz Adapter DC 12V



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	61.5250	35.39	-10.08	25.31	40.00	-14.69	360	100	peak
2	114.8750	46.92	-11.29	35.63	43.50	-7.87	287	100	peak
3	151.2500	52.48	-12.41	40.07	43.50	-3.43	168	100	peak
4	296.7500	45.61	-5.72	39.89	46.00	-6.11	122	100	peak
5	369.5000	40.14	-2.70	37.44	46.00	-8.56	100	100	peak
6	767.2000	32.72	2.20	34.92	46.00	-11.08	100	100	peak





No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(•)	(cm)	
1	37.2750	45.74	-8.41	37.33	40.00	-2.67	78	100	peak
2	52.5753	45.21	-8.65	36.56	40.00	-3.44	136	100	peak
3	114.8750	45.79	-11.29	34.50	43.50	-9.00	284	100	peak
4	141.5500	51.11	-12.55	38.56	43.50	-4.94	60	100	peak
5	296.7500	36.97	-5.72	31.25	46.00	-14.75	330	100	peak
6	595.0250	36.37	-0.34	36.03	46.00	-9.97	100	100	peak



Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			•
4824.000	54.09	-3.87	50.22	74.00	-23.78	Н	PK
4824.000	38.84	-3.87	34.97	54.00	-19.03	Н	AV
7236.000	46.30	1.14	47.44	74.00	-26.56	Н	PK
7236.000	34.98	1.19	36.17	54.00	-17.83	Н	AV
4824.000	57.31	-3.86	53.45	74.00	-20.55	V	PK
4824.000	40.50	-3.86	36.64	54.00	-17.36	V	AV
7236.000	49.11	1.10	50.21	74.00	-23.79	V	PK
7236.000	37.44	1.10	38.54	54.00	-15.46	V	AV
			Middle Chan	nel-2437MHz			
4874.000	54.74	-3.74	51.00	74.00	-23.00	Н	PK
4874.000	39.99	-3.74	36.25	54.00	-17.75	Н	AV
7311.000	47.77	1.47	49.24	74.00	-24.76	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	53.97	-3.74	50.23	74.00	-23.77	V	PK
4874.000	40.89	-3.74	37.15	54.00	-16.85	V	AV
7311.000	47.98	1.47	49.45	74.00	-24.55	V	PK
7311.000	34.08	1.47	35.55	54.00	-18.45	V	AV
			High Chann	el-2462MHz			
4924.000	55.82	-3.59	52.23	74.00	-21.77	Н	PK
4924.000	41.76	-3.59	38.17	54.00	-15.83	Н	AV
7386.000	46.38	1.79	48.17	74.00	-25.83	Н	PK
7386.000	34.83	1.79	36.62	54.00	-17.38	Н	AV
4924.000	54.94	-3.59	51.35	74.00	-22.65	V	PK
4924.000	42.04	-3.59	38.45	54.00	-15.55	V	AV
7386.000	47.99	1.79	49.78	74.00	-24.22	V	PK
7386.000	35.18	1.79	36.97	54.00	-17.03	V	AV



Test Mode: 802.11g

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			
4824.000	55.50	-3.86	51.64	74.00	-22.36	Н	PK
4824.000	42.23	-3.86	38.37	54.00	-15.63	Н	AV
7236.000	48.42	1.10	49.52	74.00	-24.48	Н	PK
7236.000	34.40	1.10	35.50	54.00	-18.50	Н	AV
4824.000	55.99	-3.86	52.13	74.00	-21.87	V	PK
4824.000	42.65	-3.86	38.79	54.00	-15.21	V	AV
7236.000	49.22	1.10	50.32	74.00	-23.68	V	PK
7236.000	35.54	1.10	36.64	54.00	-17.36	V	AV
			Middle Chan	nel-2437MHz			
4874.000	55.10	-3.74	51.36	74.00	-22.64	Н	PK
4874.000	43.28	-3.74	39.54	54.00	-14.46	Н	AV
7311.000	47.38	1.47	48.85	74.00	-25.15	Н	PK
7311.000	35.27	1.47	36.74	54.00	-17.26	Н	AV
4874.000	57.07	-3.74	53.33	74.00	-20.67	V	PK
4874.000	43.86	-3.74	40.12	54.00	-13.88	V	AV
7311.000	48.40	1.47	49.87	74.00	-24.13	V	PK
7311.000	35.33	1.47	36.80	54.00	-17.20	V	AV
			High Chann	el-2462MHz			
4924.000	54.00	-3.59	50.41	74.00	-23.59	Н	PK
4924.000	40.75	-3.59	37.16	54.00	-16.84	Н	AV
7386.000	47.18	1.79	48.97	74.00	-25.03	Н	PK
7386.000	34.73	1.79	36.52	54.00	-17.48	Н	AV
4924.000	56.11	-3.59	52.52	74.00	-21.48	V	PK
4924.000	42.69	-3.59	39.10	54.00	-14.90	V	AV
7386.000	48.58	1.79	50.37	74.00	-23.63	V	PK
7386.000	35.95	1.79	37.74	54.00	-16.26	V	AV



Test Mode: 802.11n-HT20

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2412MHz			•
4824.000	55.60	-3.86	51.74	74.00	-22.26	Н	PK
4824.000	40.54	-3.86	36.68	54.00	-17.32	Н	AV
7236.000	47.26	1.10	48.36	74.00	-25.64	Н	PK
7236.000	34.44	1.10	35.54	54.00	-18.46	Н	AV
4824.000	56.71	-3.86	52.85	74.00	-21.15	V	PK
4824.000	43.18	-3.86	39.32	54.00	-14.68	V	AV
7236.000	49.21	1.10	50.31	74.00	-23.69	V	PK
7236.000	35.77	1.10	36.87	54.00	-17.13	V	AV
			Middle Chan	nel-2437MHz			
4874.000	54.16	-3.74	50.42	74.00	-23.58	Н	PK
4874.000	42.48	-3.74	38.74	54.00	-15.26	Н	AV
7311.000	48.74	1.47	50.21	74.00	-23.79	Н	PK
7311.000	33.10	1.47	34.57	54.00	-19.43	Н	AV
4874.000	54.92	-3.74	51.18	74.00	-22.82	V	PK
4874.000	42.62	-3.74	38.88	54.00	-15.12	V	AV
7311.000	48.49	1.47	49.96	74.00	-24.04	V	PK
7311.000	35.20	1.47	36.67	54.00	-17.33	V	AV
			High Chann	el-2462MHz			
4924.000	53.90	-3.59	50.31	74.00	-23.69	Н	PK
4924.000	43.23	-3.59	39.64	54.00	-14.36	Н	AV
7386.000	48.31	1.79	50.10	74.00	-23.90	Н	PK
7386.000	36.10	1.79	37.89	54.00	-16.11	Н	AV
4924.000	55.70	-3.59	52.11	74.00	-21.89	V	PK
4924.000	41.48	-3.59	37.89	54.00	-16.11	V	AV
7386.000	48.55	1.79	50.34	74.00	-23.66	V	PK
7386.000	35.36	1.79	37.15	54.00	-16.85	V	AV



Test Mode: 802.11n-HT40

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
			Low Channe	el-2422MHz			
4844.000	53.25	-3.90	49.35	74.00	-24.65	Н	PK
4824.000	38.25	-3.90	34.35	54.00	-19.65	Н	AV
7266.000	46.48	1.06	47.54	74.00	-26.46	Н	PK
7266.000	32.56	1.06	33.62	54.00	-20.38	Н	AV
4844.000	54.22	-3.90	50.32	74.00	-23.68	V	PK
4824.000	39.42	-3.90	35.52	54.00	-18.48	V	AV
7266.000	48.81	1.06	49.87	74.00	-24.13	V	PK
7266.000	34.78	1.06	35.84	54.00	-18.16	V	AV
			Middle Chan	nel-2437MHz			
4874.000	52.53	-3.74	48.79	74.00	-25.21	Н	PK
4874.000	37.88	-3.74	34.14	54.00	-19.86	Н	AV
7311.000	44.88	1.47	46.35	74.00	-27.65	Н	PK
7311.000	32.03	1.47	33.50	54.00	-20.50	Н	AV
4874.000	53.74	-3.74	50.00	74.00	-24.00	V	PK
4874.000	39.95	-3.74	36.21	54.00	-17.79	V	AV
7311.000	45.78	1.47	47.25	74.00	-26.75	V	PK
7311.000	34.00	1.47	35.47	54.00	-18.53	V	AV
			High Chann	el-2452MHz			
4904.000	52.65	-3.63	49.02	74.00	-24.98	Н	PK
4904.000	39.37	-3.63	35.74	54.00	-18.26	Н	AV
7356.000	45.63	1.62	47.25	74.00	-26.75	Н	PK
7356.000	30.73	1.62	32.35	54.00	-21.65	Н	AV
4904.000	54.84	-3.63	51.21	74.00	-22.79	V	PK
4904.000	40.83	-3.63	37.20	54.00	-16.80	V	AV
7356.000	48.18	1.62	49.80	74.00	-24.20	V	PK
7356.000	35.12	1.62	36.74	54.00	-17.26	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3^{th} Harmonics are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured. The measurements greater than 20dB below the limit from 9kHz to 30MHz.



9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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).

9.2 Test Procedure

According to the KDB 558074D01 v03r05, the band-edge radiated test method as follows:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement KDB publication number: 913591 may be used for the radiated bandedge measurements.

According to the KDB 558074 D01 v03r05, the conducted spurious emissions test method as follows:

- 1. Set start frequency to DTS channel edge frequency.
- 2. Set stop frequency so as to encompass the spectrum to be examined.
- 3. Set RBW = 100 kHz.
- 4. Set VBW \geq 300 kHz.
- 5. Detector = peak.
- 6. Trace Mode = \max hold.
- 7. Sweep = auto couple.
- 8. Allow the trace to stabilize (this may take some time, depending on the extent of the span).
- 9. Use peak marker function to determine maximum amplitude of all unwanted emissions within any 100 kHz bandwidth.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

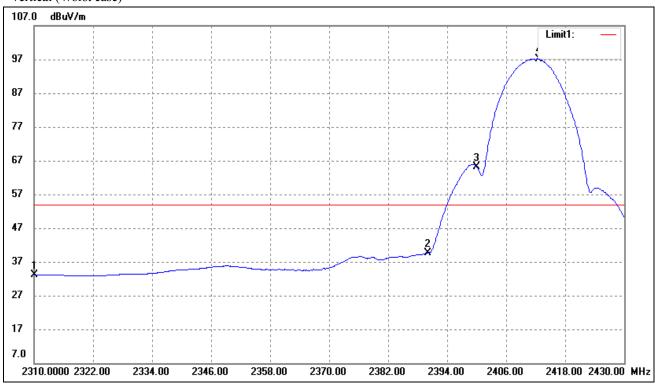


9.3 Environmental Conditions

Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

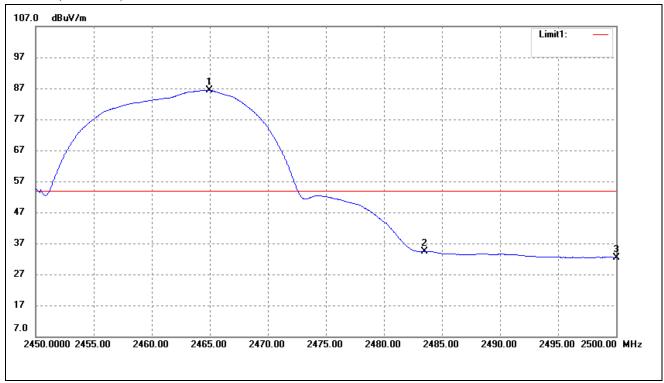
802.11b-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	36.74	-3.69	33.05	54.00	-20.95	Average Detector
	2310.000	49.49	-3.69	45.80	74.00	-28.20	Peak Detector
2	2390.000	43.15	-3.49	39.66	54.00	-14.34	Average Detector
	2390.000	57.65	-3.49	54.16	74.00	-19.84	Peak Detector
3	2400.000	68.65	-3.46	65.19	Delta=31.91dBc		Average Detector
4	2412.600	100.52	-3.42	97.10			Average Detector



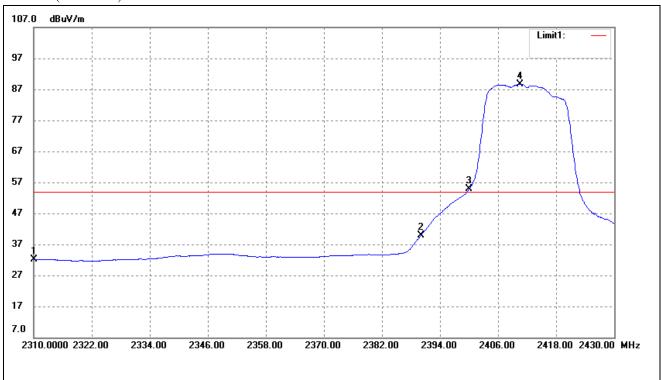
802.11b-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2464.950	89.68	-3.29	86.39	/	/	Average Detector
	2463.650	97.45	-3.29	94.16	/	/	Peak Detector
2	2483.500	Dolto - 5	Delta = 51.96dBc		54.00	-19.57	Average Detector
	2483.500	Della – 3	1.90ubc	46.87	74.00	-27.13	Peak Detector
3	2500.000	35.64	-3.20	32.44	54.00	-21.56	Average Detector
	2500.000	47.53	-3.20	44.33	74.00	-29.67	Peak Detector



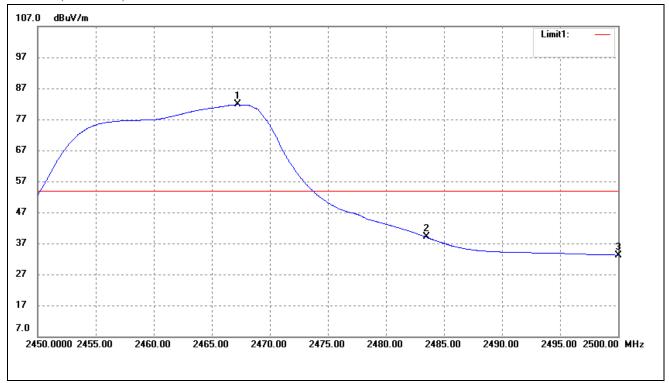
802.11g-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.79	-3.69	32.10	54.00	-21.90	Average Detector
	2310.000	47.17	-3.69	43.48	74.00	-30.52	Peak Detector
2	2390.000	43.37	-3.49	39.88	54.00	-14.12	Average Detector
	2390.000	62.75	-3.49	59.26	74.00	-14.74	Peak Detector
3	2400.000	58.29	-3.46	54.83	Delta=33.78dBc		Average Detector
4	2410.560	92.04	-3.43	88.61			Average Detector



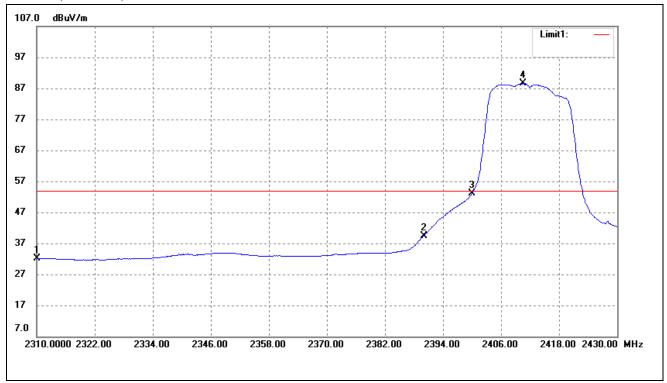
802.11g-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
2	2467.250	85.08	-3.28	81.80	/	/	Average Detector
	2469.100	97.30	-3.28	94.02	/	/	Peak Detector
1	2483.500	Dolto - 4	Delta = 42.77dBc		54.00	-14.97	Average Detector
	2483.500	Della – 4.	2.77 ubc	53.65	74.00	-20.35	Peak Detector
3	2500.000	36.43	-3.20	33.23	54.00	-20.77	Average Detector
	2500.000	49.68	-3.20	46.48	74.00	-27.52	Peak Detector



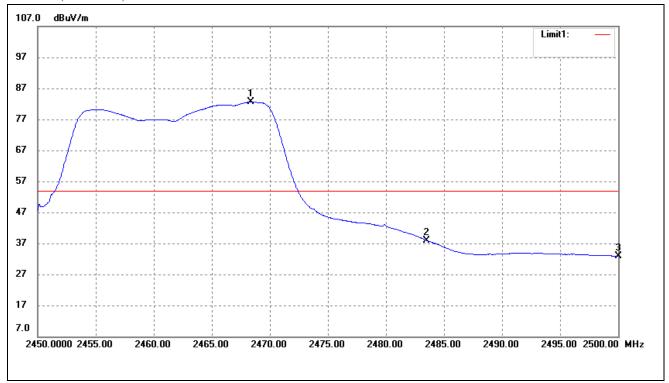
802.11n-HT20-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.73	-3.69	32.04	54.00	-21.96	Average Detector
	2310.000	47.10	-3.69	43.41	74.00	-30.59	Peak Detector
2	2390.000	42.98	-3.49	39.49	54.00	-14.51	Average Detector
	2390.000	62.93	-3.49	59.44	74.00	-14.56	Peak Detector
3	2400.000	56.69	-3.46	53.23	Delta=35.28dBc		Average Detector
4	2410.560	91.94	-3.43	88.51			Average Detector



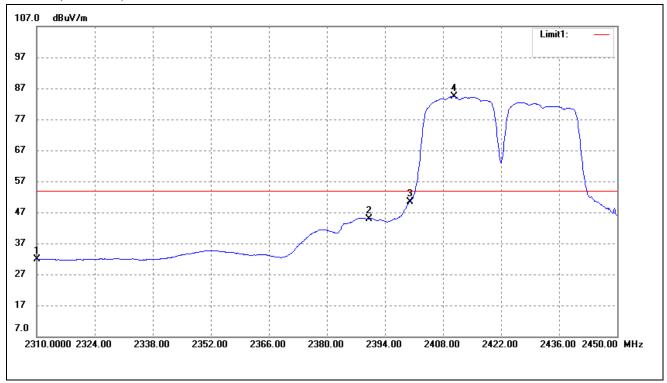
802.11n-HT20-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2468.350	85.88	-3.28	82.60	/	/	Average Detector
	2469.150	97.31	-3.28	94.03	/	/	Peak Detector
2	2483.500	Dolto - 2	Delta = 39.78dBc		54.00	-16.02	Average Detector
	2483.500	Della – 3	9.78UDC	54.25	74.00	-19.75	Peak Detector
3	2500.000	36.13	-3.20	32.93	54.00	-21.07	Average Detector
	2500.000	51.05	-3.20	47.85	74.00	-26.15	Peak Detector



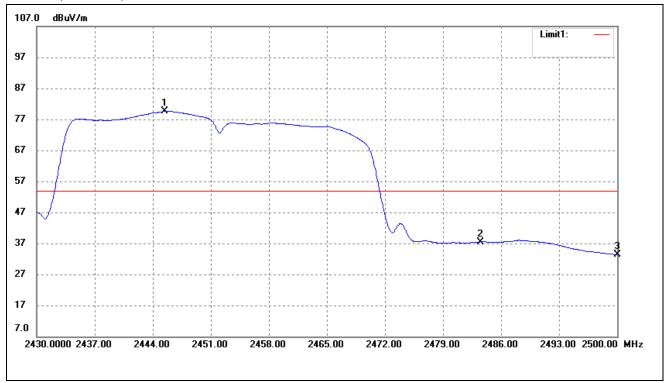
802.11n-HT40-Lowest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	35.68	-3.69	31.99	54.00	-22.01	Average Detector
	2310.000	49.43	-3.69	45.74	74.00	-28.26	Peak Detector
2	2390.000	48.40	-3.49	44.91	54.00	-9.09	Average Detector
	2390.000	69.39	-3.49	65.90	74.00	-8.10	Peak Detector
3	2400.000	53.90	-3.46	50.44	Delta=33.94dBc		Average Detector
4	2410.660	87.81	-3.43	84.38	Delta=33	.94aBC	Average Detector



802.11n-HT40-Highest Bandedge



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2445.470	82.93	-3.35	79.58	/	/	Average Detector
	2444.560	94.22	-3.35	90.87	/	/	Peak Detector
2	2483.500	Dolto - 4	Delta = 42.08dBc		54.00	-16.50	Average Detector
	2483.500	Della – 4	2.08UDC	53.03	74.00	-20.97	Peak Detector
3	2500.000	36.61	-3.20	33.41	54.00	-20.59	Average Detector
	2500.000	49.33	-3.20	46.13	74.00	-27.87	Peak Detector



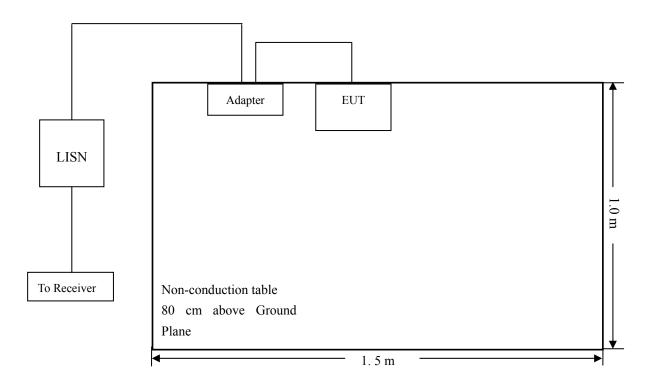
10. Conducted Emissions

10.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle. The spacing between the peripherals was 10 cm.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar



10.4 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

10.5 Summary of Test Results/Plots

According to the data in section 10.6, the EUT <u>complied with the FCC Part 15.207</u> Conducted margin for this device, with the *worst* margin reading of:

-9.24dB at 0.1780 MHz in the Neutral, Peak detector, 0.15-30MHz

10.6 Conducted Emissions Test Data

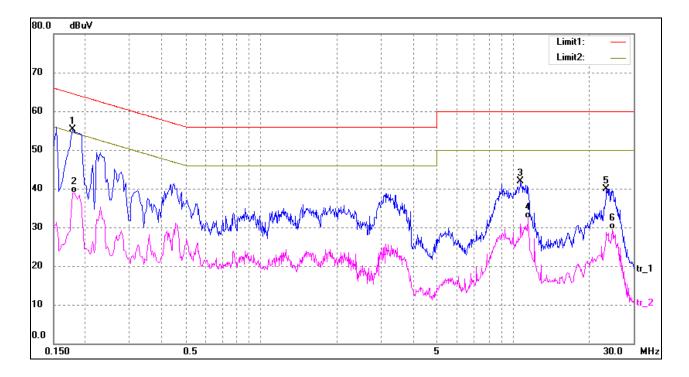


Plot of Conducted Emissions Test Data

EUT: Tablet PC
Tested Model: Q896
Operating Condition: TM1

Comment: AC120V/60Hz Adapter DC 12V

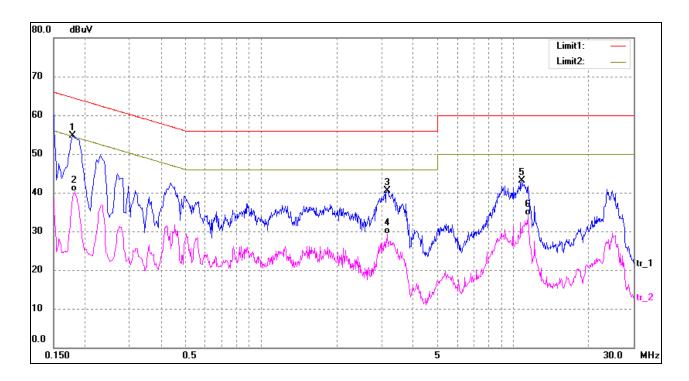
Test Specification: Neutral



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1780	45.84	9.50	55.34	64.58	-9.24	peak
2	0.1820	29.44	9.50	38.94	54.39	-15.45	AVG
3	10.7300	31.50	10.37	41.87	60.00	-18.13	peak
4	11.4460	21.89	10.38	32.27	50.00	-17.73	AVG
5	23.4980	29.48	10.51	39.99	60.00	-20.01	peak
6	24.6740	19.02	10.53	29.55	50.00	-20.45	AVG



Test Specification: Line



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1780	45.29	9.50	54.79	64.58	-9.79	peak
2	0.1820	30.74	9.50	40.24	54.39	-14.15	AVG
3	3.1660	30.55	9.98	40.53	56.00	-15.47	peak
4	3.1660	19.31	9.98	29.29	46.00	-16.71	AVG
5	10.8380	32.67	10.37	43.04	60.00	-16.96	peak
6	11.4420	23.79	10.38	34.17	50.00	-15.83	AVG

***** END OF REPORT *****