

FCC Part 15C

Measurement and Test Report

For

ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED

No. 161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China

FCC ID: ZL9-M72DW2

FCC Rule(s): FCC Part 15C

Product Description: Tablet PC

Tested Model: M72DW2-SP(AP)

Report No.: STR14098122I-1

Tested Date: 2014-09-16 to 2014-09-29

Issued Date: 2014-09-29

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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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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED

Address of applicant: No. 161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China

Manufacturer: ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED

Address of manufacturer: No. 161, Xin Min Road, Tong Luo Wei Industrial Zone, Dong Guan, China

General Description of EUT

Product Name:	Tablet PC
Trade Name:	/
Model No.:	M72DW2-SP(AP)
Adding Model(s):	Trio-Stealth G4 7
Rated Voltage:	Adapter: DC 5V/1.5A, Battery: DC 3.7V
Power Adapter Model:	PGAE0500150U1UL
<i>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 M72DW2-SP(AP), but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT

Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	13.42dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	0dBi

1.2 Test Standards

The following report is prepared on behalf of the ELECTRONICS TECHNOLOGY(DONG GUAN) COMPANY LIMITED 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 C63.4-2003, 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 V03r02 for digital transmission systems shall be performed also.

1.4 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).

1.5 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

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	1.0	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
Earphone Cable	1.2	Unshielded	Without Ferrite

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook Computer	Lenovo	E10	LR-63C8R

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 a 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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

5.3 Test Procedure

According to the KDB 558074 D01 V03r02, the test method of power spectral density as below:

3

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set analyzer center frequency to DTS channel center frequency.
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW ≥ 3 kHz.
5. Set the VBW $\geq 3 \times$ RBW.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.
11. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.4 Environmental Conditions

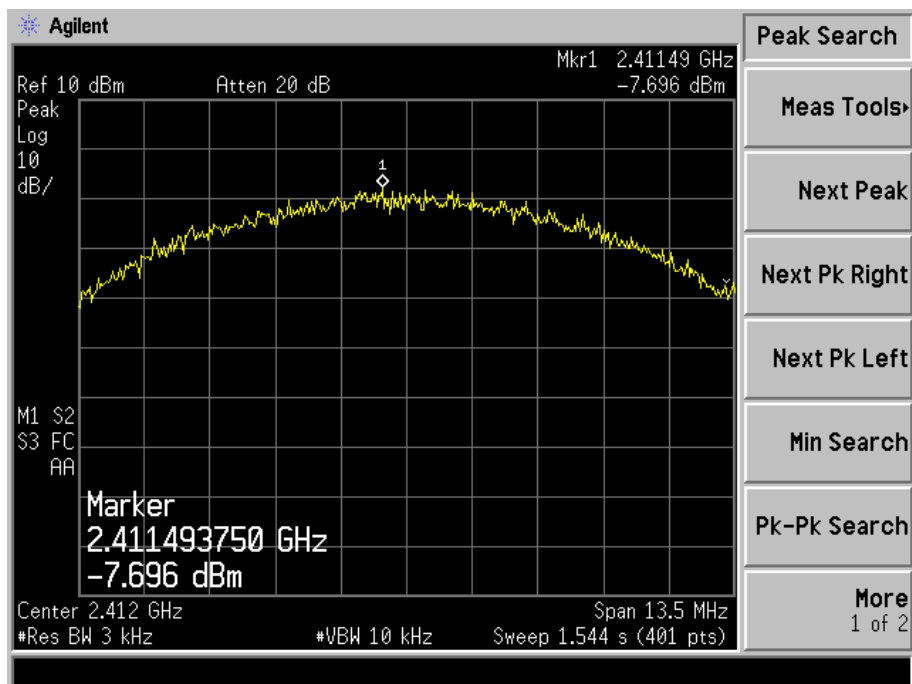
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.5 Summary of Test Results/Plots

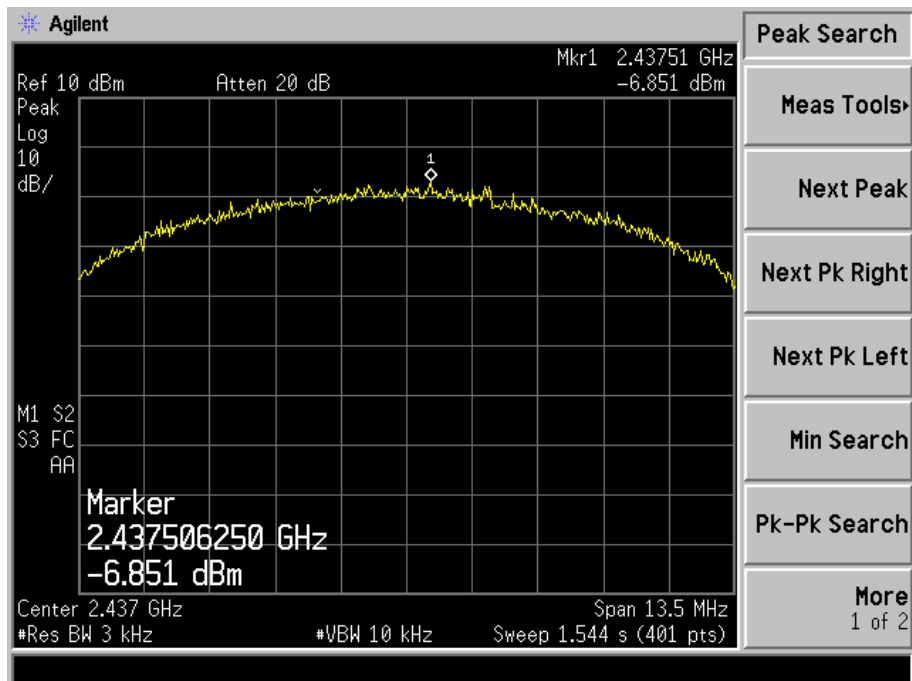
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-7.696	8
	2437	-6.851	8
	2462	-7.527	8
802.11g	2412	-9.239	8
	2437	-10.54	8
	2462	-10.59	8
802.11n HT20	2412	-9.915	8
	2437	-11.92	8
	2462	-11.73	8

Please refer to the following test plots:

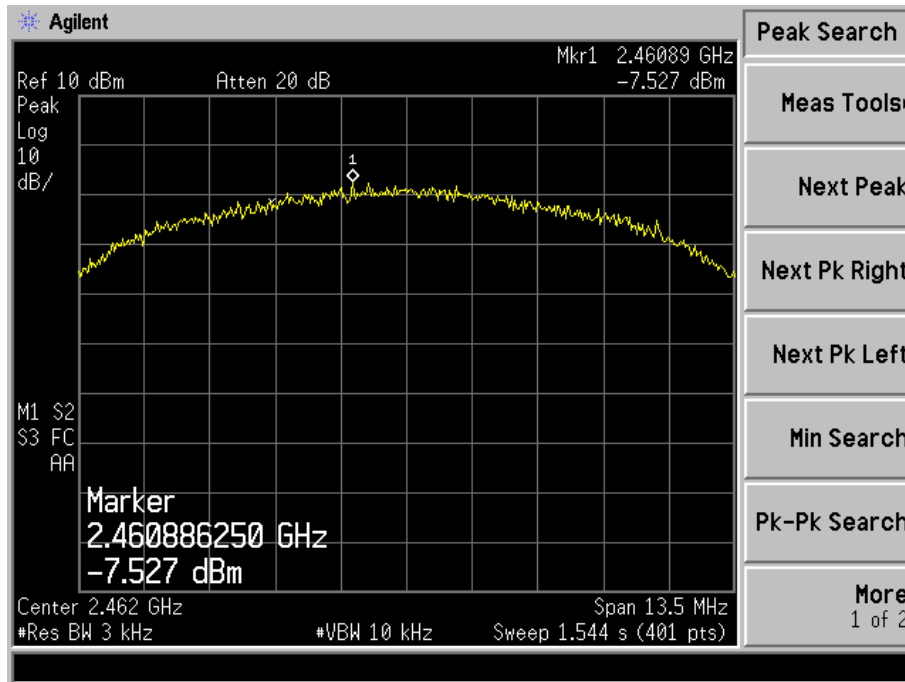
802.11b-Low Channel



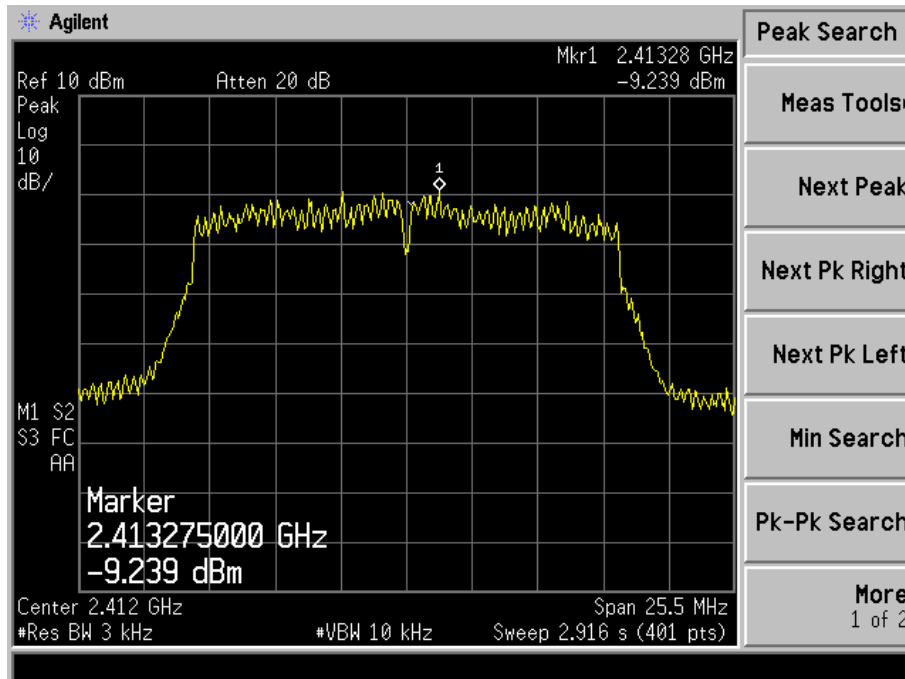
802.11b-Middle Channel



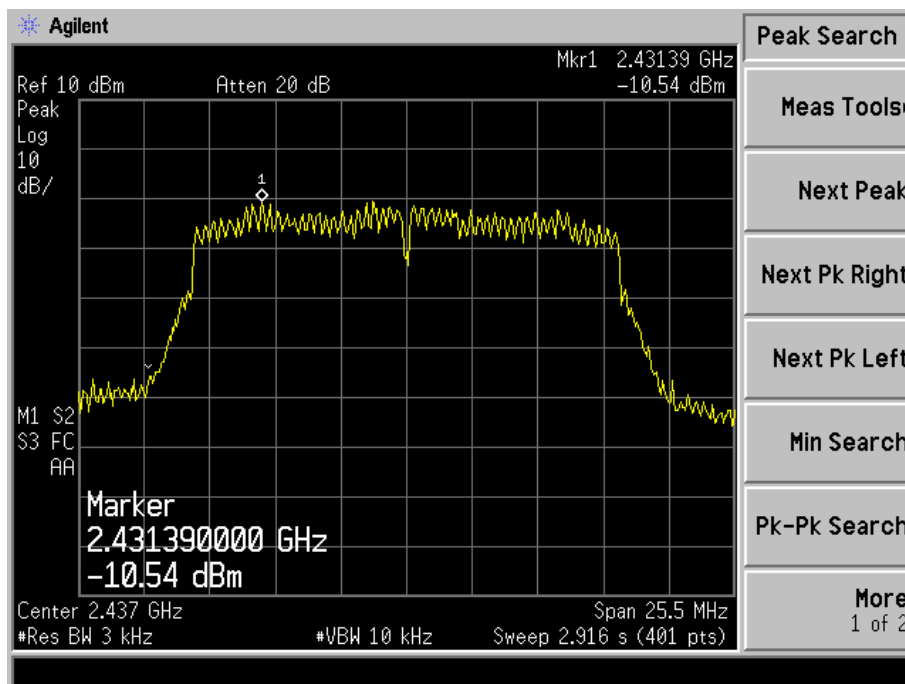
802.11b-High Channel



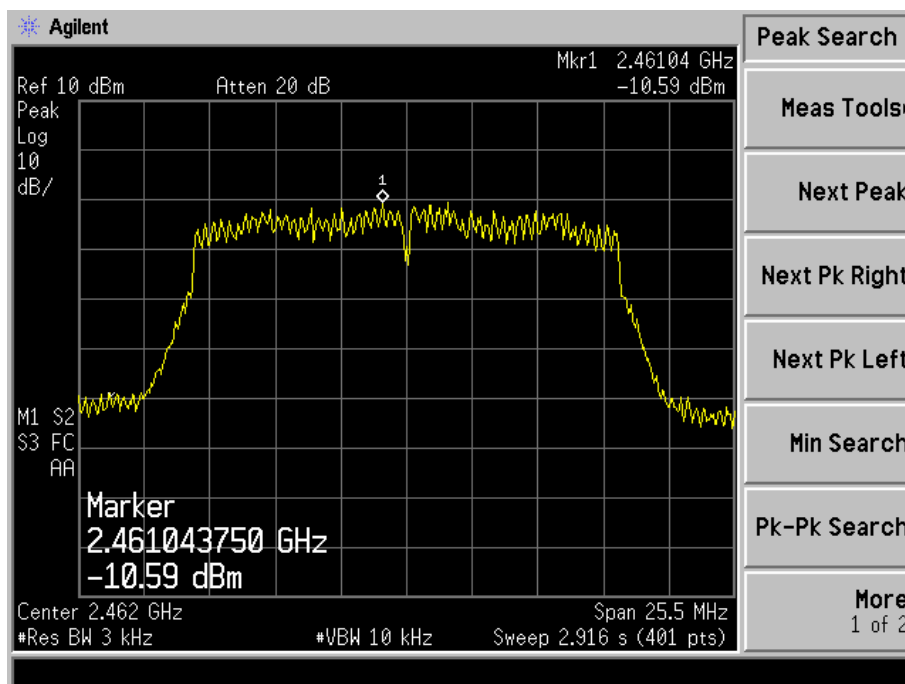
802.11g-Low Channel



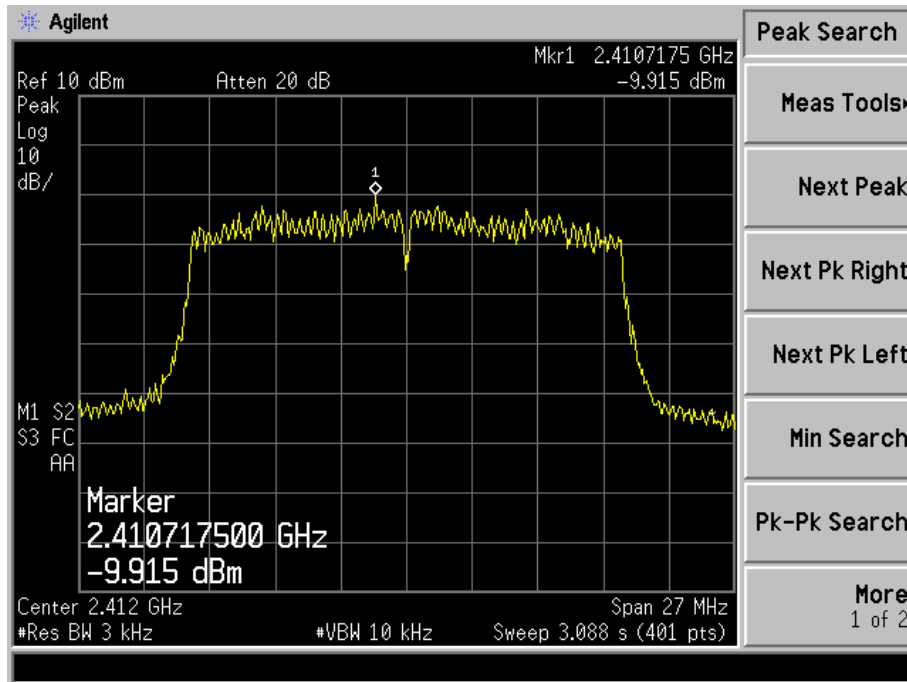
802.11g-Middle Channel



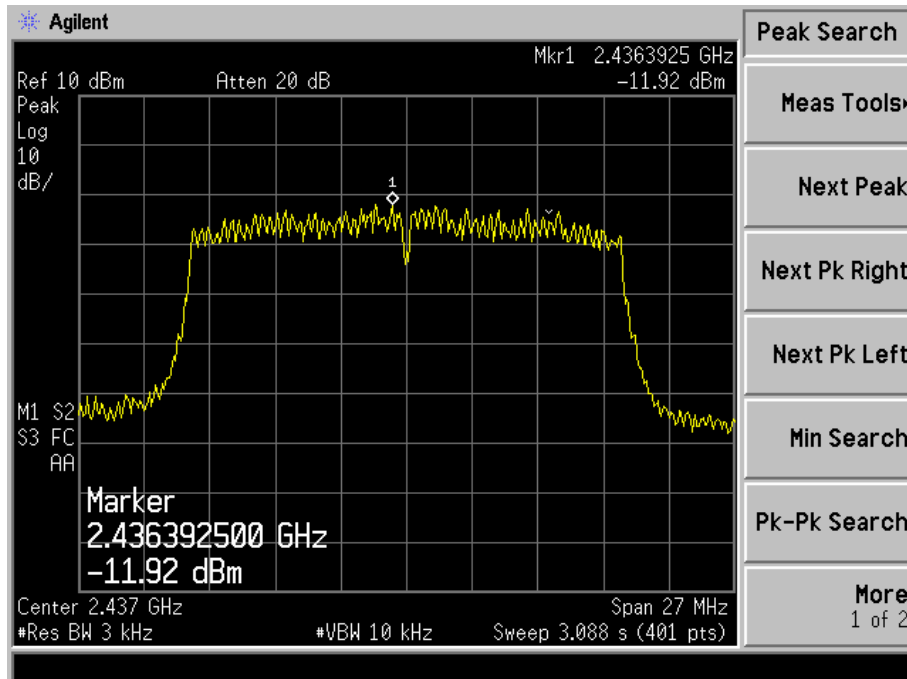
802.11g-High Channel



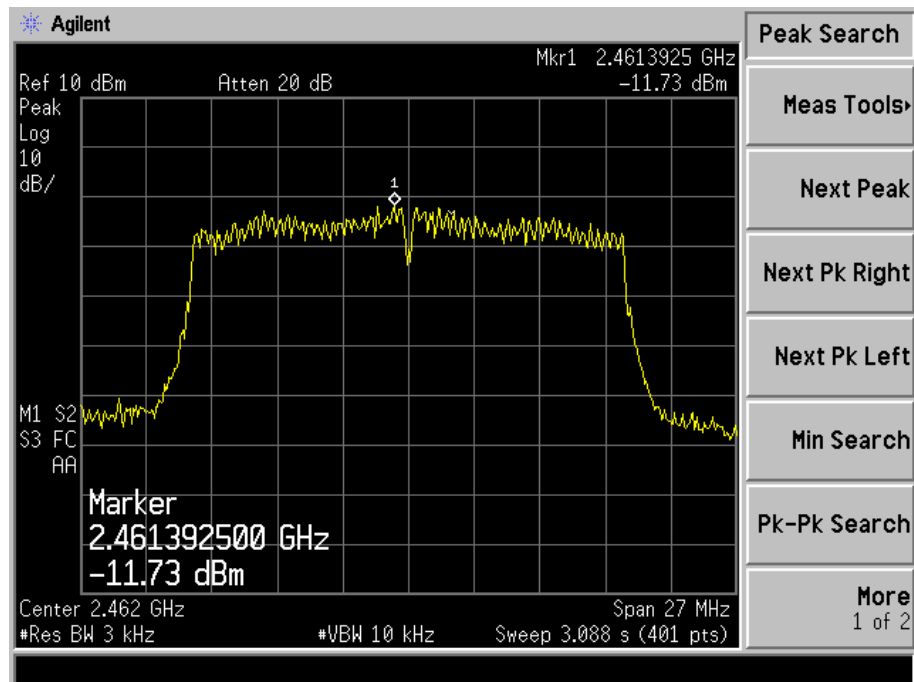
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

6.3 Test Procedure

According to the KDB 558074 D01 v03r02, the test method of power spectral density as below:

1. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.4 Environmental Conditions

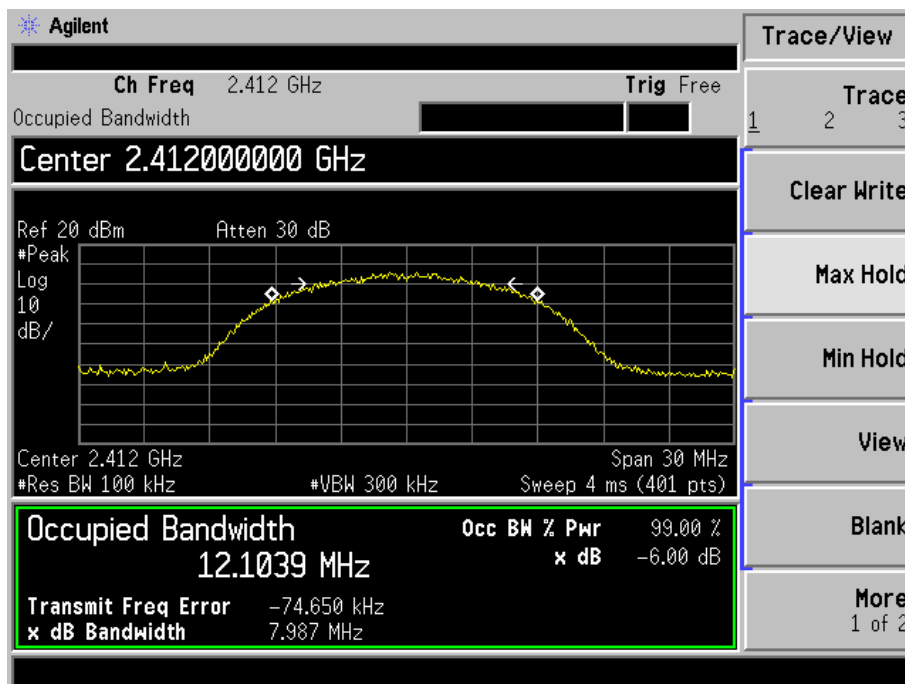
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.5 Summary of Test Results/Plots

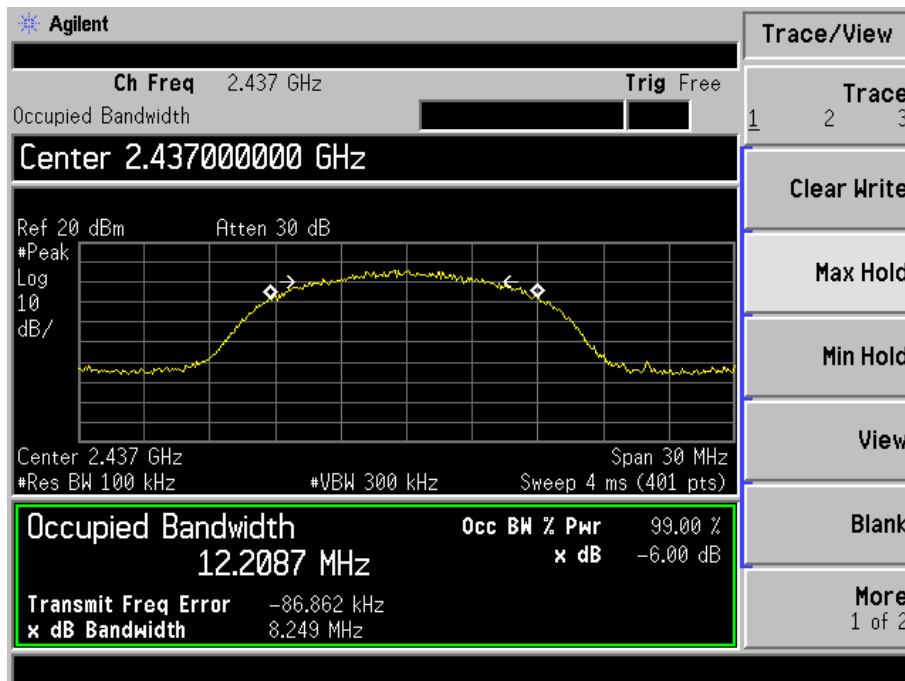
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
802.11b	2412	7987	12103.9	500
	2437	8249	12208.7	500
	2462	8129	12224.1	500
802.11g	2412	16098	16322.0	500
	2437	16094	16295.8	500
	2462	15817	16291.7	500
802.11n-HT20	2412	17379	17456.8	500
	2437	16945	17471.2	500
	2462	17240	17482.5	500

Please refer to the following test plots:

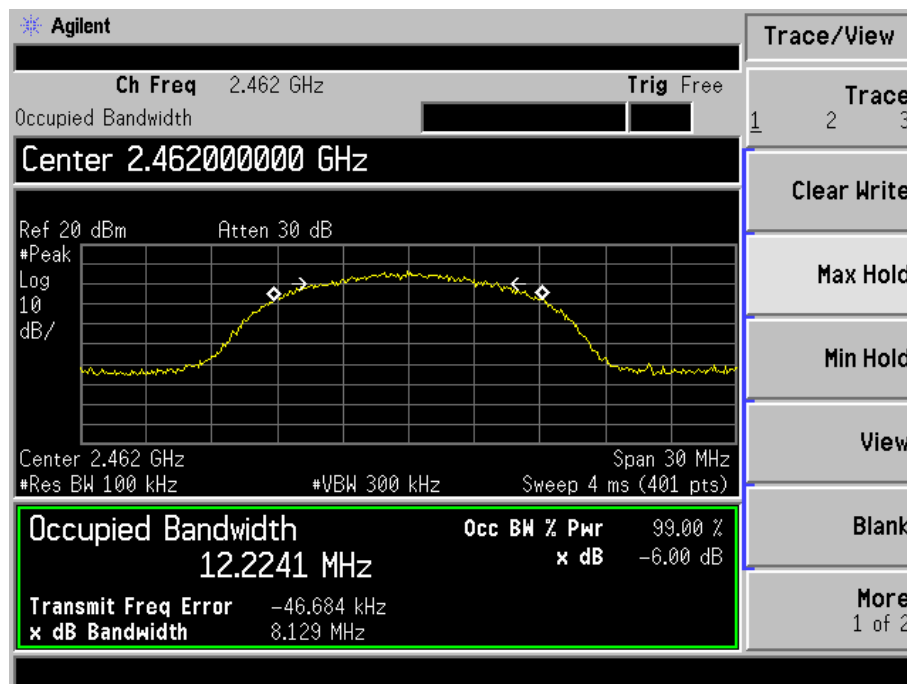
802.11b-Low Channel



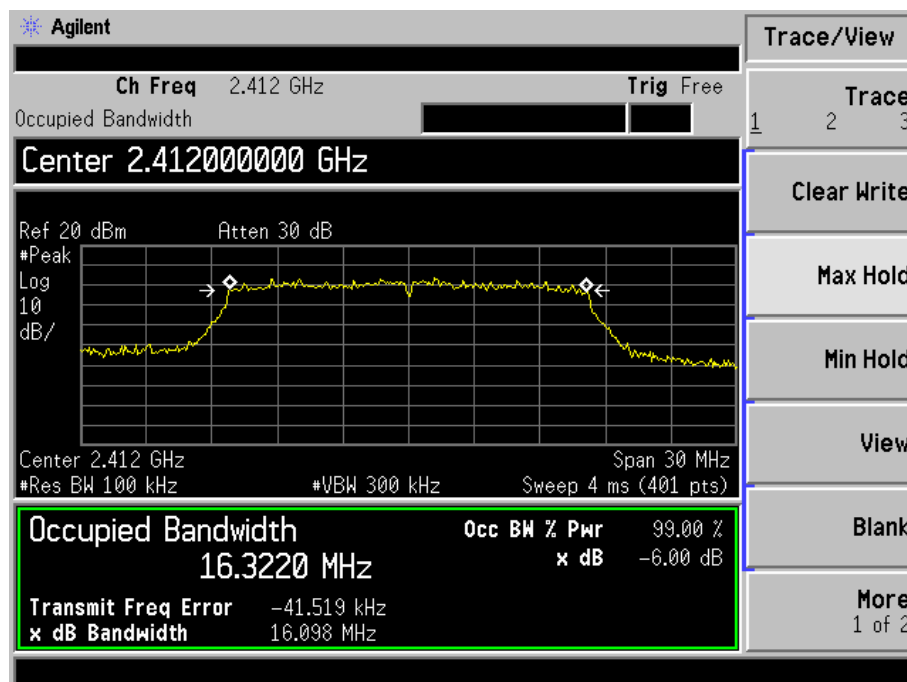
802.11b-Middle Channel



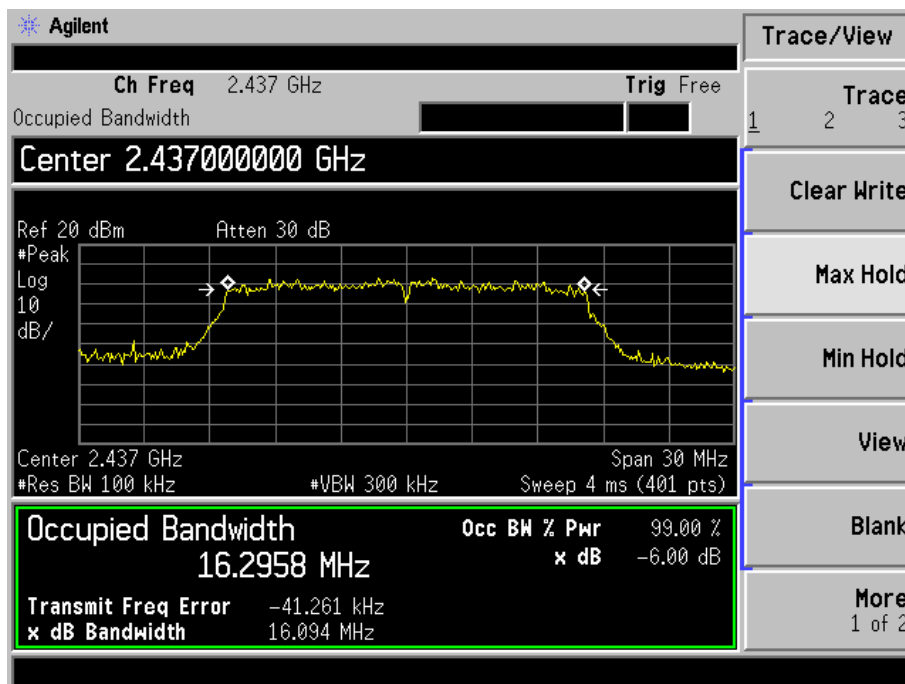
802.11b-High Channel



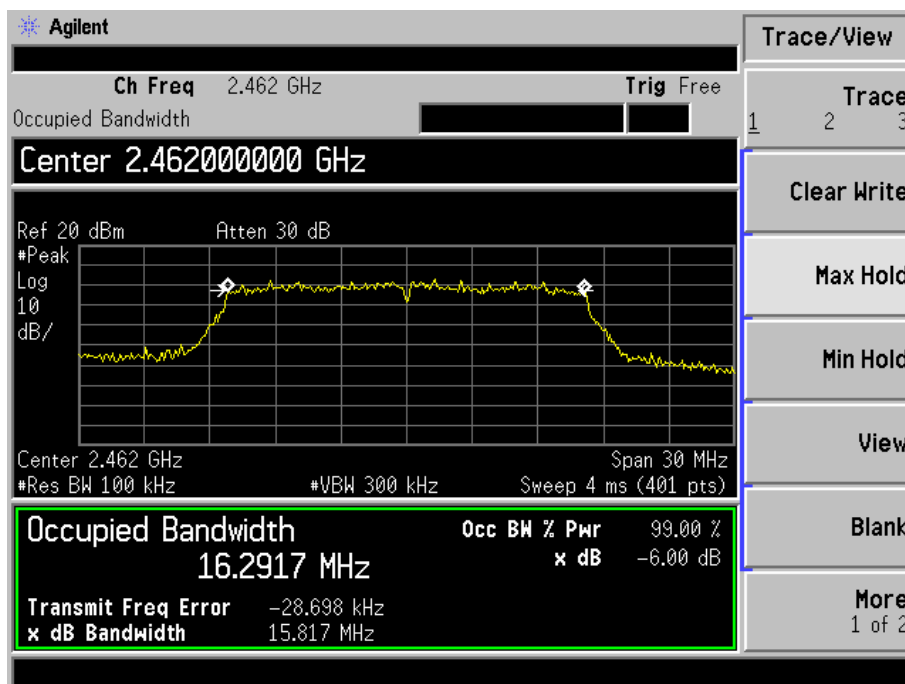
802.11g-Low Channel



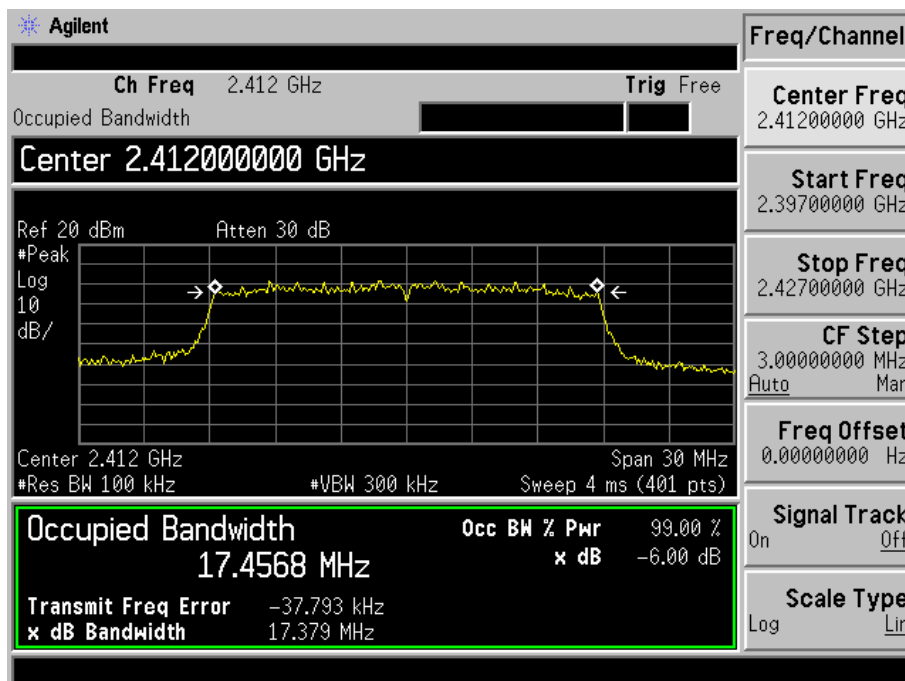
802.11g-Middle Channel



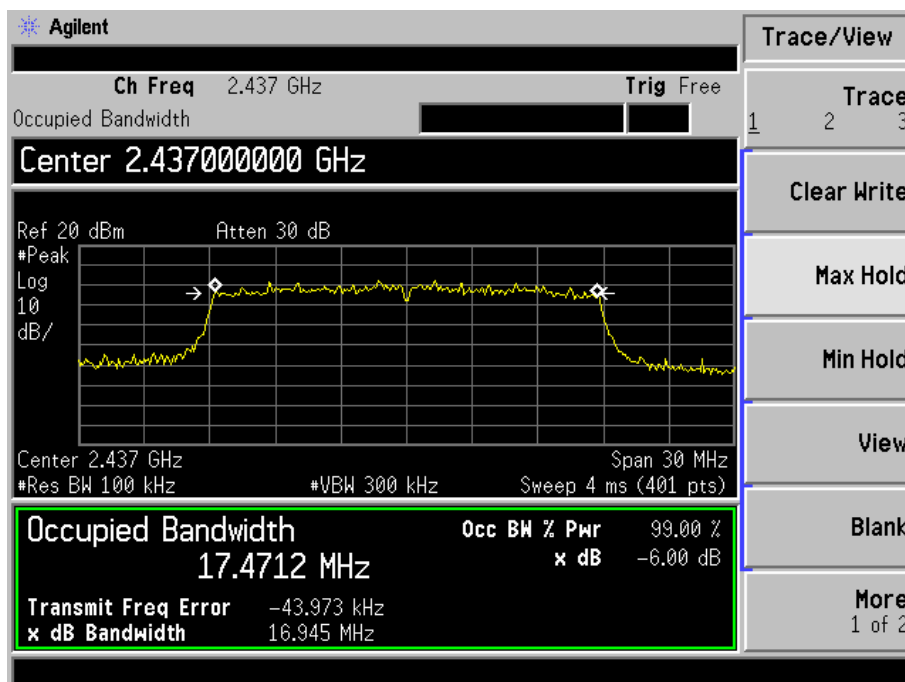
802.11g-High Channel



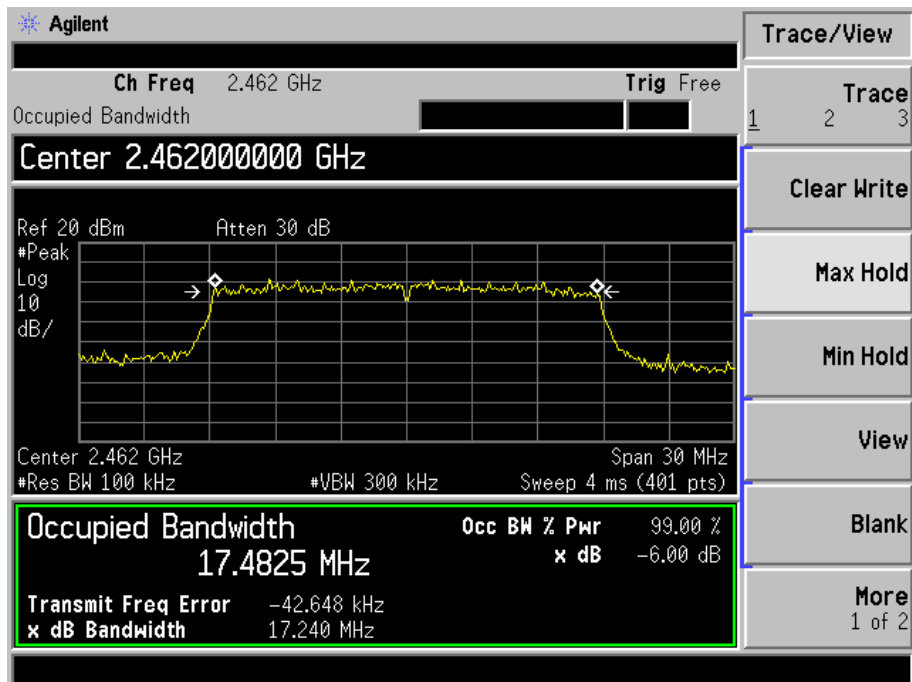
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2014-05-28	2015-05-27
Attenuator	ATTEN	ATS100-4-20	/	2014-05-28	2015-05-27

7.3 Test Procedure

According to section 15.247(b)-power output of the KDB-558074 D01 V03r02, 8.1.2 Option 2 (channel integration method) this procedure should only be used when the maximum available RBW of the spectrum/signal analyzer is less than the DTS bandwidth.

1. Set span to at least 1.5 times the OBW.
2. Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
3. Set VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)
5. Sweep time = auto.
6. Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
7. Trace average at least 100 traces in power averaging (i.e., RMS) mode.
8. 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.

7.4 Environmental Conditions

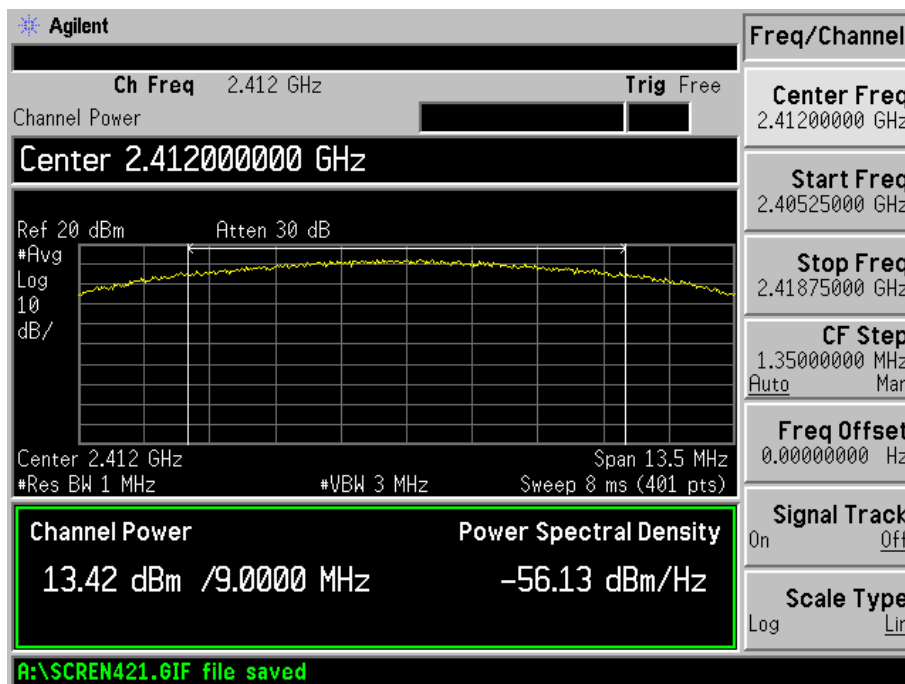
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.5 Summary of Test Results/Plots

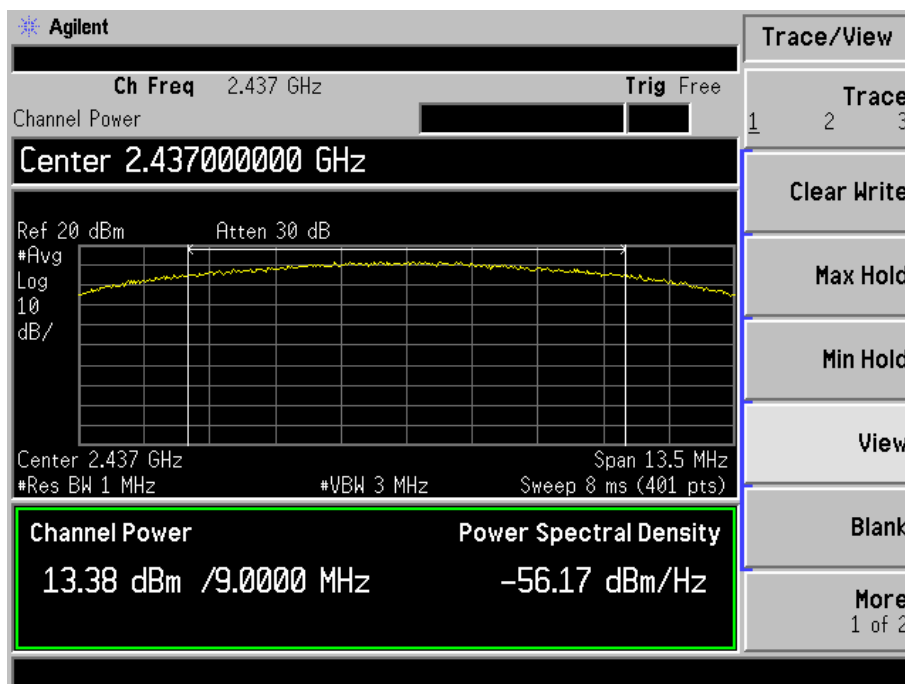
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	13.42	21.98	1000
	2437	13.38	21.78	1000
	2462	13.19	20.84	1000
802.11g_54Mbps	2412	12.41	17.42	1000
	2437	12.14	16.37	1000
	2462	11.82	15.21	1000
802.11n HT20_MCS7	2412	10.61	11.51	1000
	2437	10.44	11.07	1000
	2462	10.23	10.54	1000

Please refer to the following test plots:

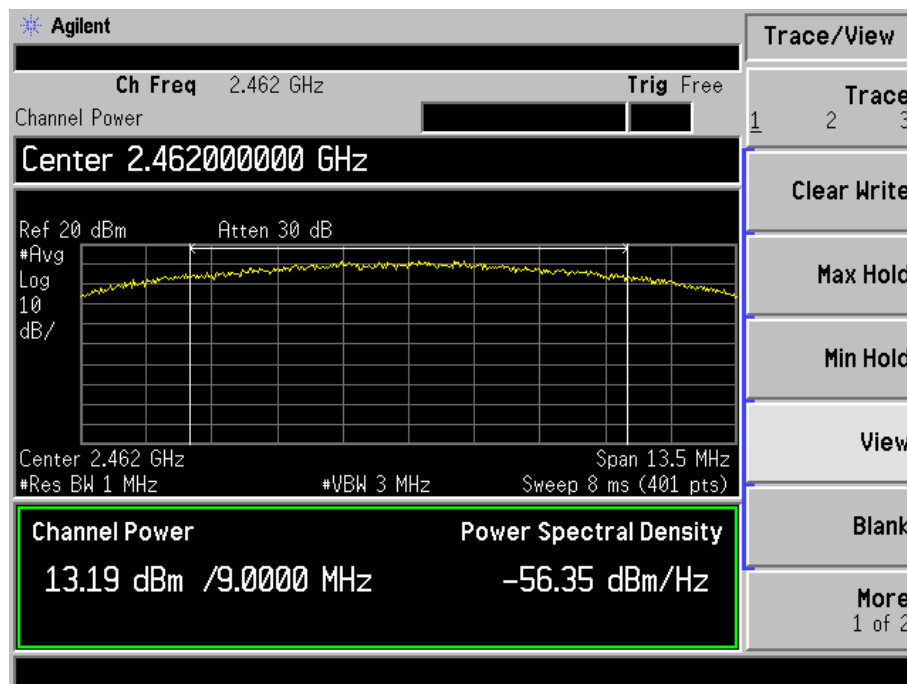
802.11b-Low Channel



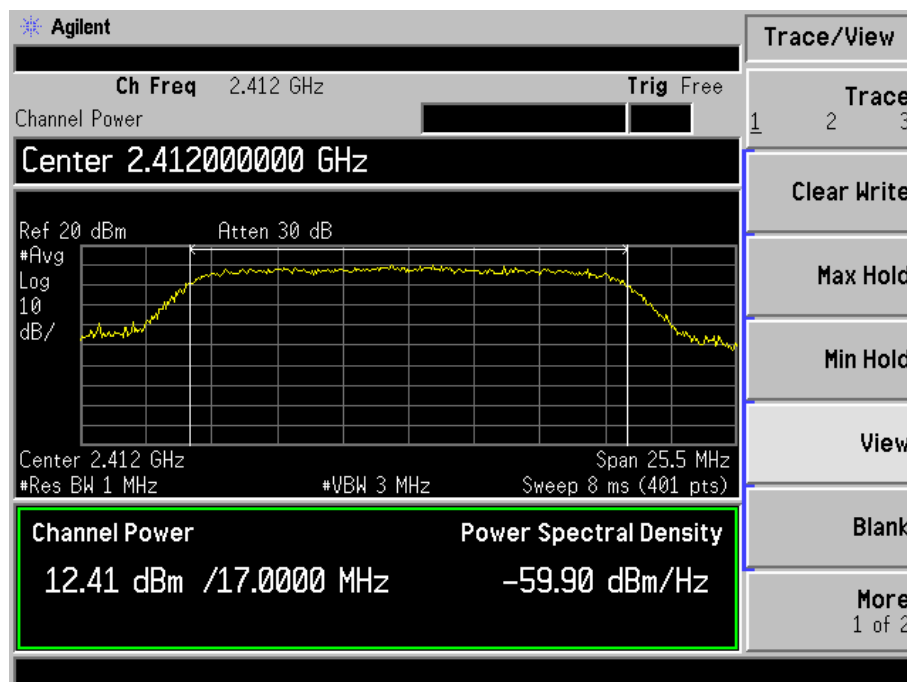
802.11b-Middle Channel



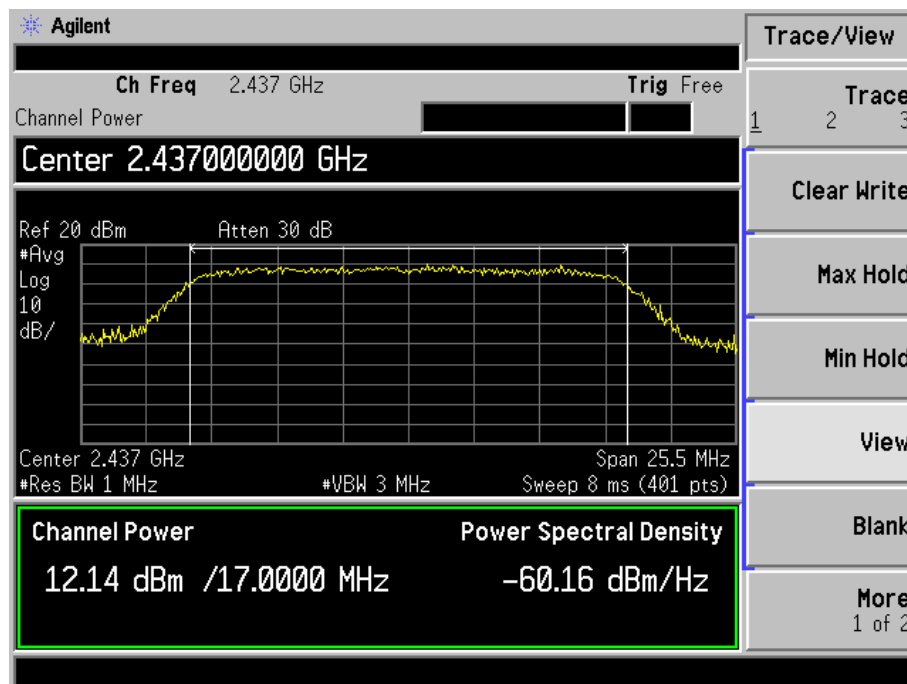
802.11b-High Channel



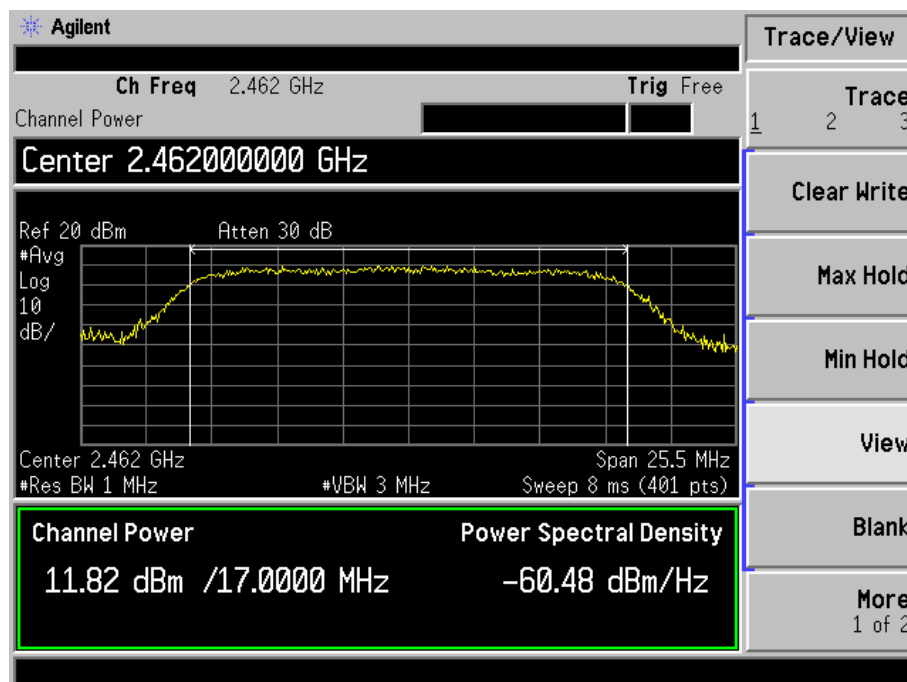
802.11g-Low Channel



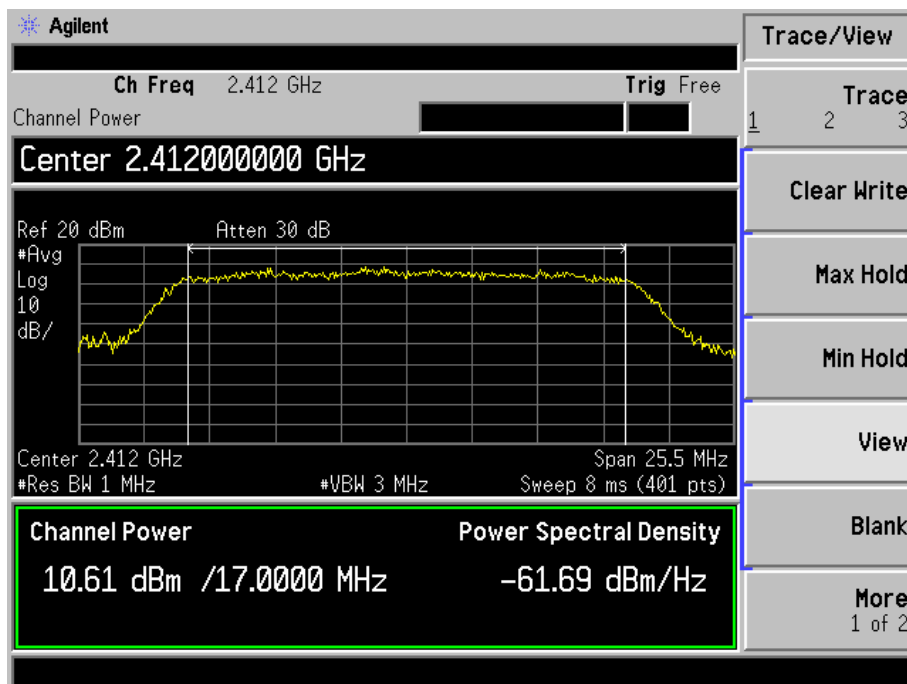
802.11g-Middle Channel



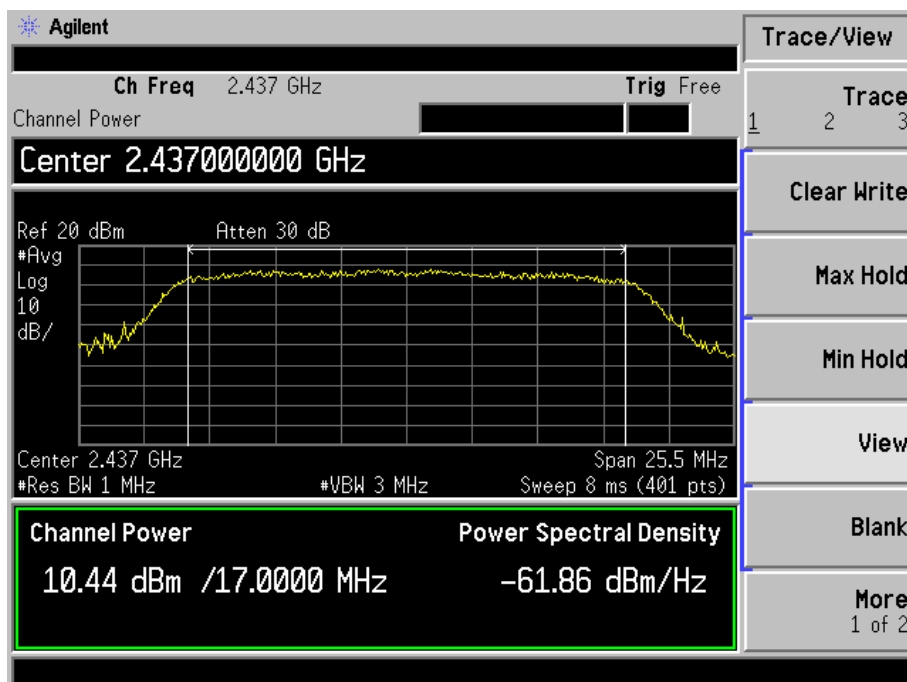
802.11g-High Channel



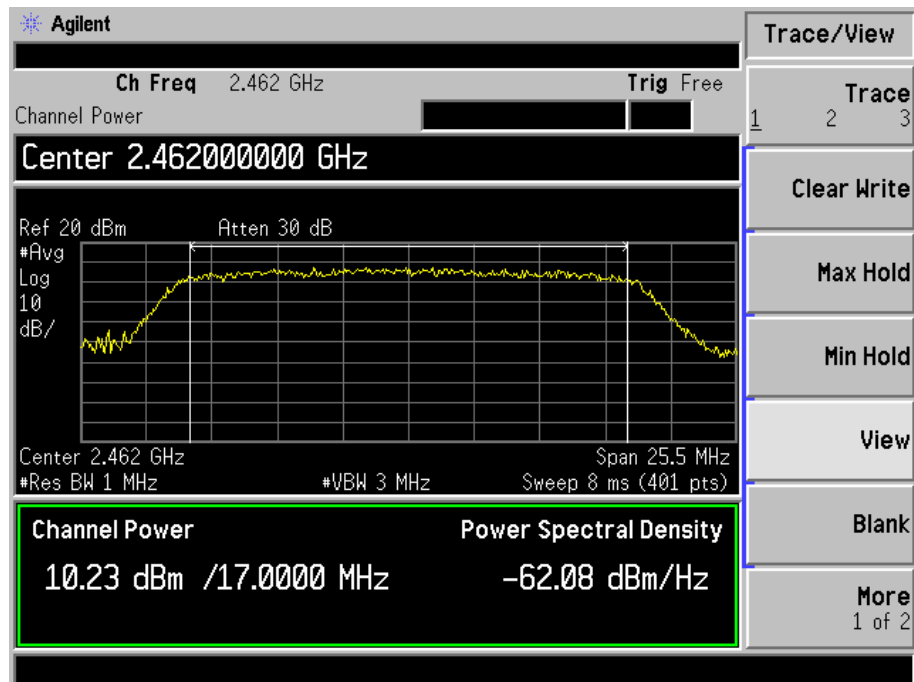
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is ± 5.10 dB.

8.2 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.

8.3 Test Equipment List and Details

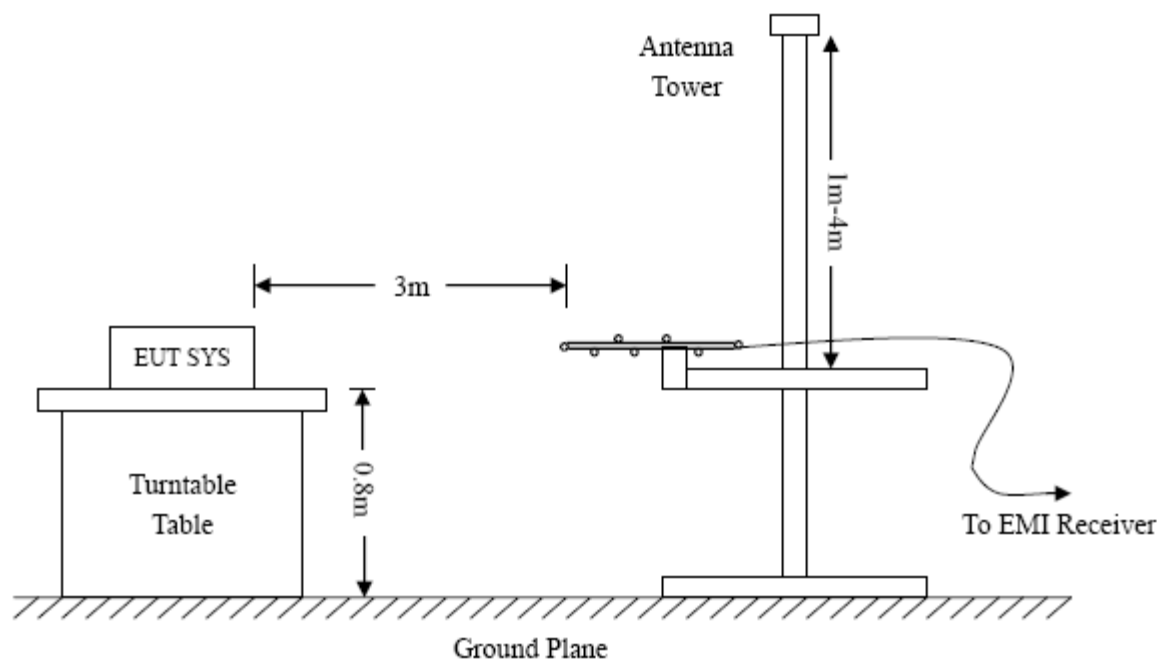
Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23
Horn Antenna	ETS	3116B	00088203	2014-05-24	2015-05-23
Loop Antenna	SCHWARZECK	HFRA 5165	9365	2014-05-24	2015-05-23

8.4 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 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

RBW=10KHz,

VBW =30KHz

Sweep time= Auto

Trace = max hold

Detector function = peak

Frequency :30MHz-1GHz

RBW=120KHz,

VBW=300KHz

Sweep time= Auto

Trace = max hold

Detector function = peak, QP

Frequency :Above 1GHz

RBW=1MHz,

VBW=3MHz(Peak), 10Hz(AV)

Sweep time= Auto

Trace = max hold

Detector function = peak, AV

8.5 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dBμV means the emission is 6dBμV below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

8.6 Environmental Conditions

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

8.7 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)

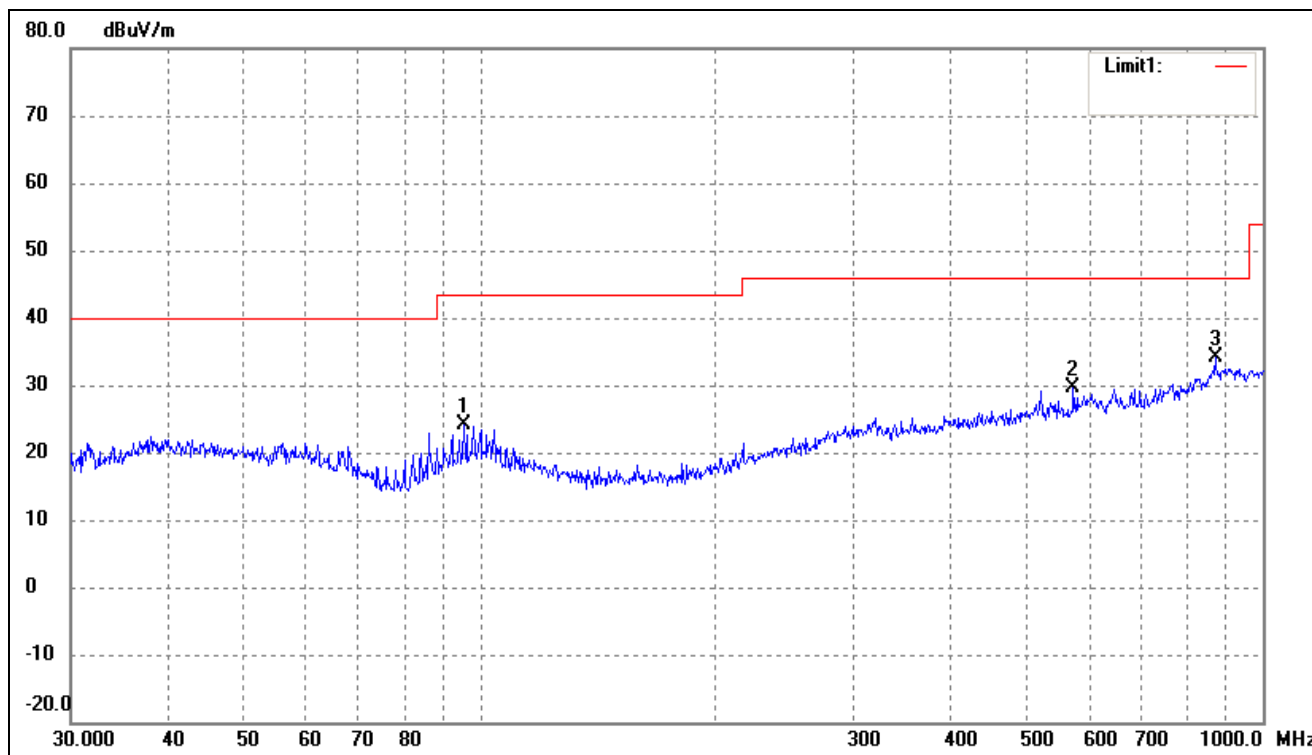
EUT: Tablet PC

Tested Model: M72DW2-SP(AP)

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

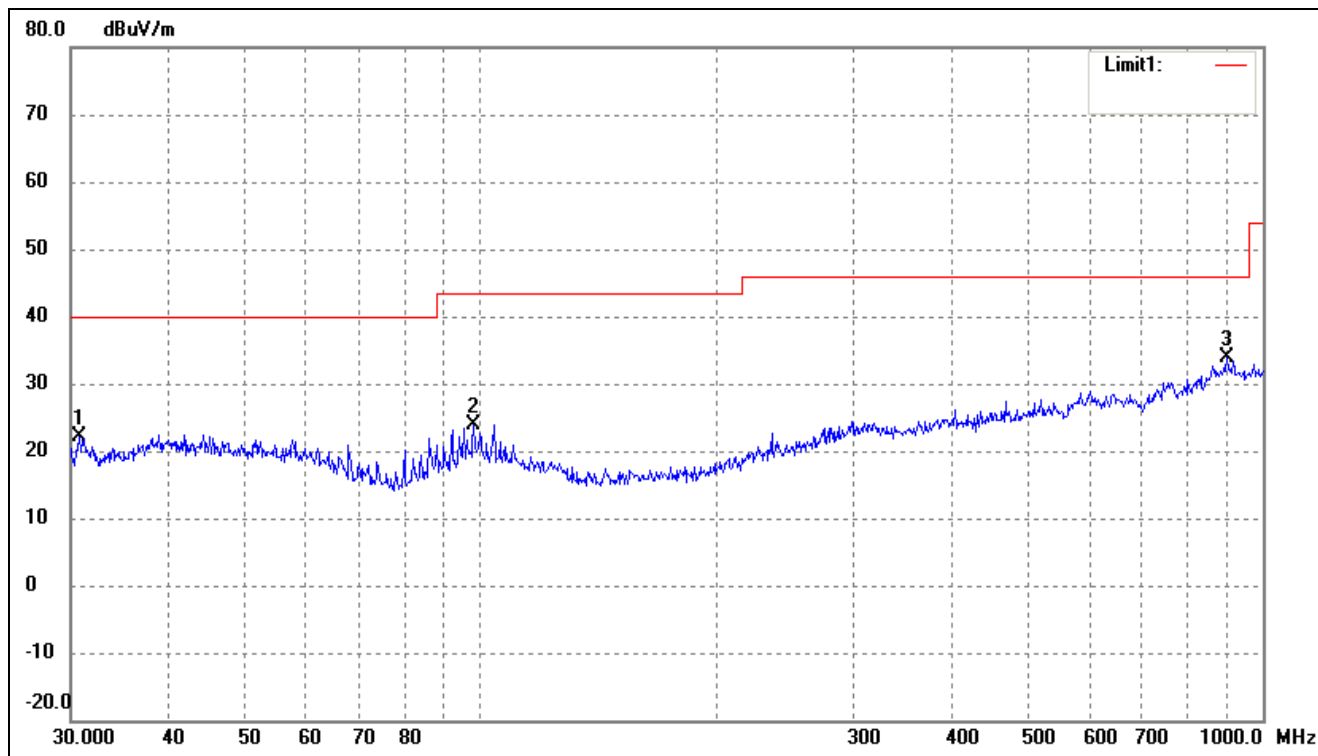
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	95.4270	19.15	4.98	24.13	43.50	-19.37	178	100	peak
2	572.6144	17.51	12.19	29.70	46.00	-16.30	180	100	peak
3	869.1302	17.49	16.54	34.03	46.00	-11.97	102	100	peak

Test Specification: Vertical

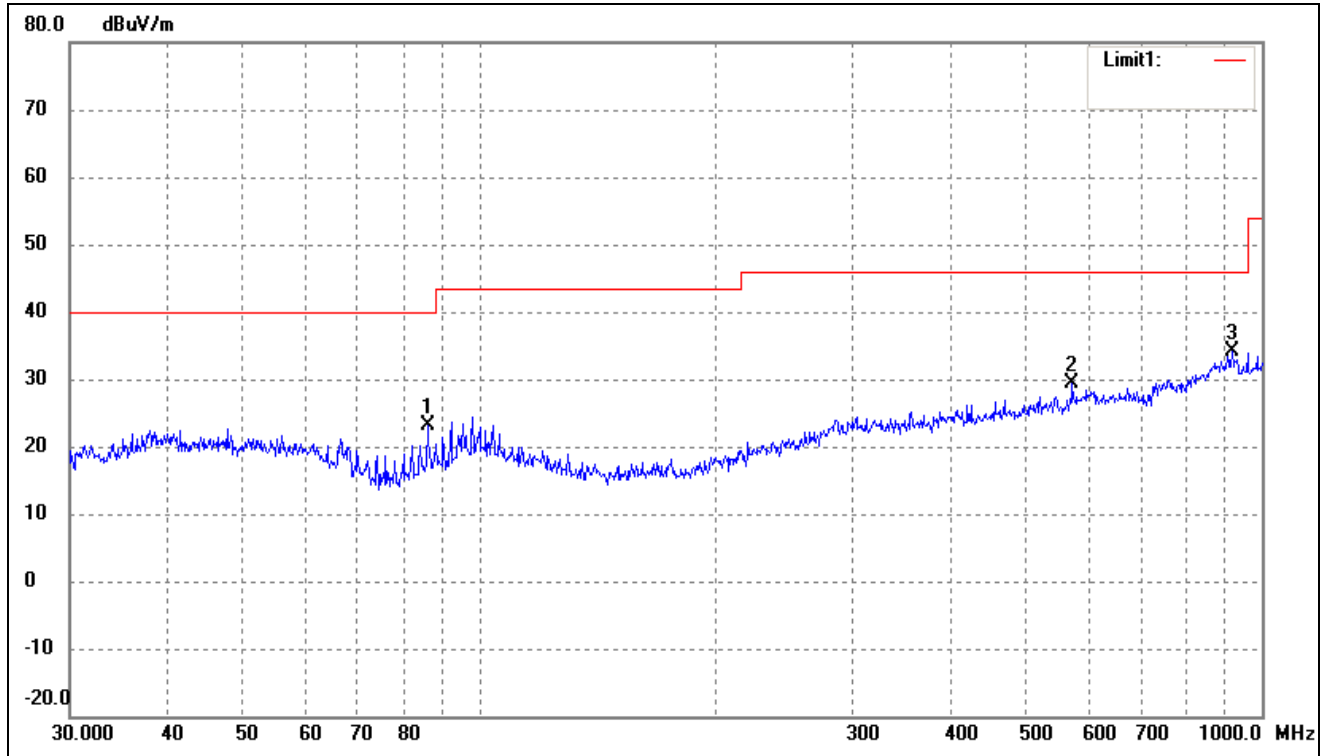


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	30.7455	14.34	7.75	22.09	40.00	-17.91	110	100	peak
2	98.1419	18.13	5.67	23.80	43.50	-19.70	270	100	peak
3	900.1474	17.09	16.85	33.94	46.00	-12.06	360	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

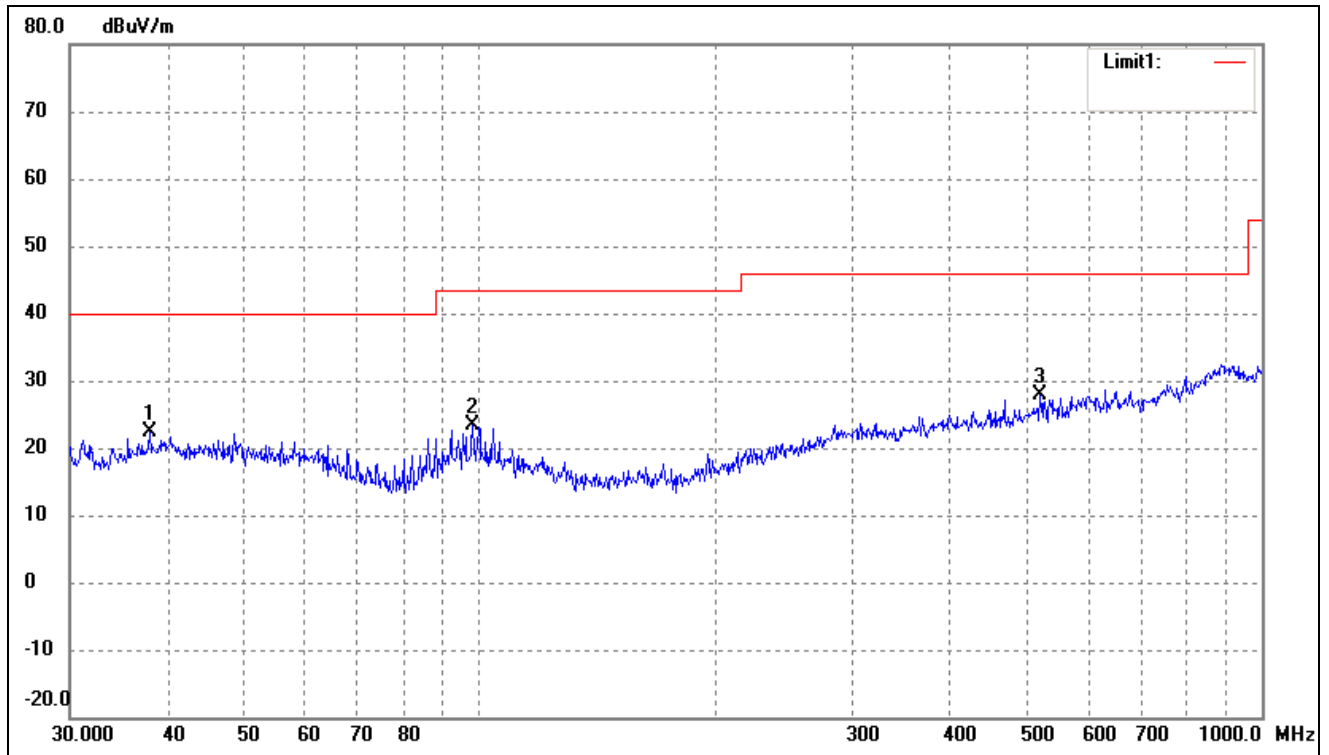
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	85.8984	20.56	2.54	23.10	40.00	-16.90	180	100	peak
2	572.6144	17.12	12.19	29.31	46.00	-16.69	140	100	peak
3	916.0687	17.45	16.56	34.01	46.00	-11.99	160	100	peak

Test Specification: Vertical

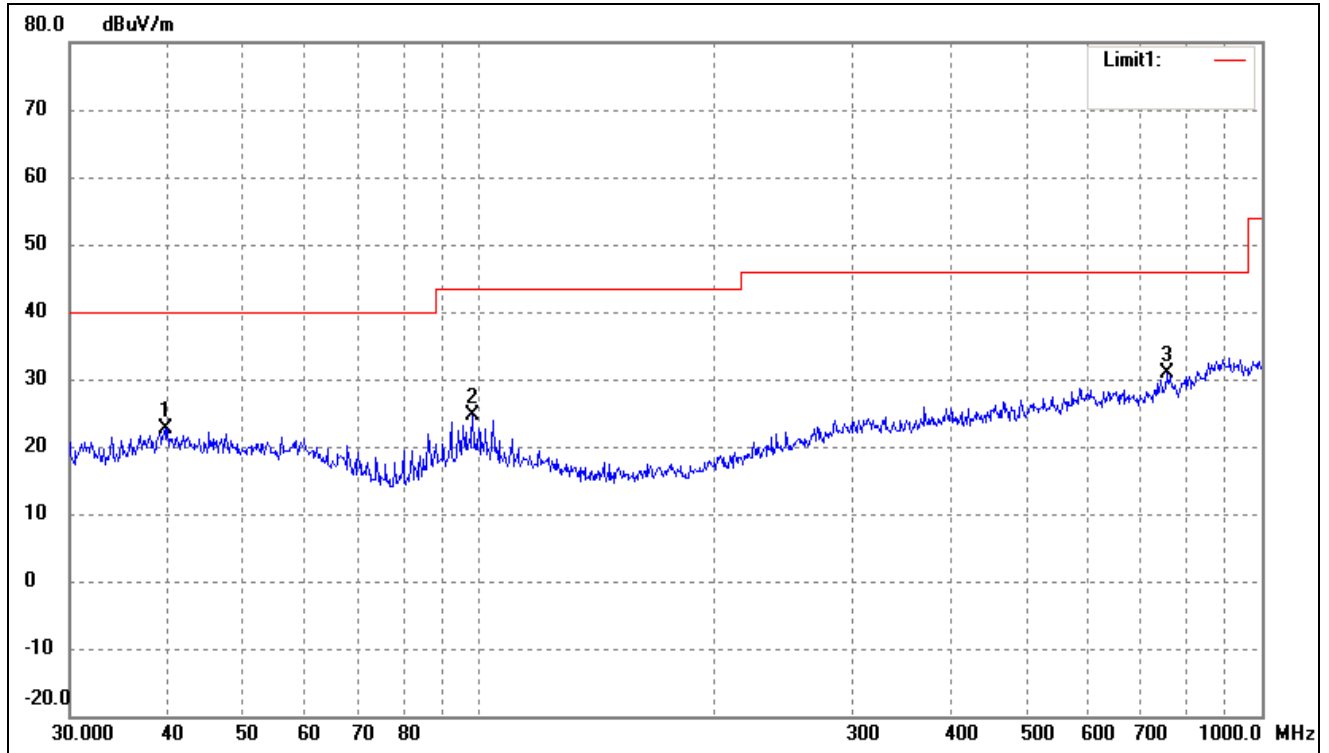


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	37.9450	13.46	8.90	22.36	40.00	-17.64	270	100	peak
2	98.1419	17.65	5.67	23.32	43.50	-20.18	158	100	peak
3	520.8882	16.50	11.37	27.87	46.00	-18.13	360	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

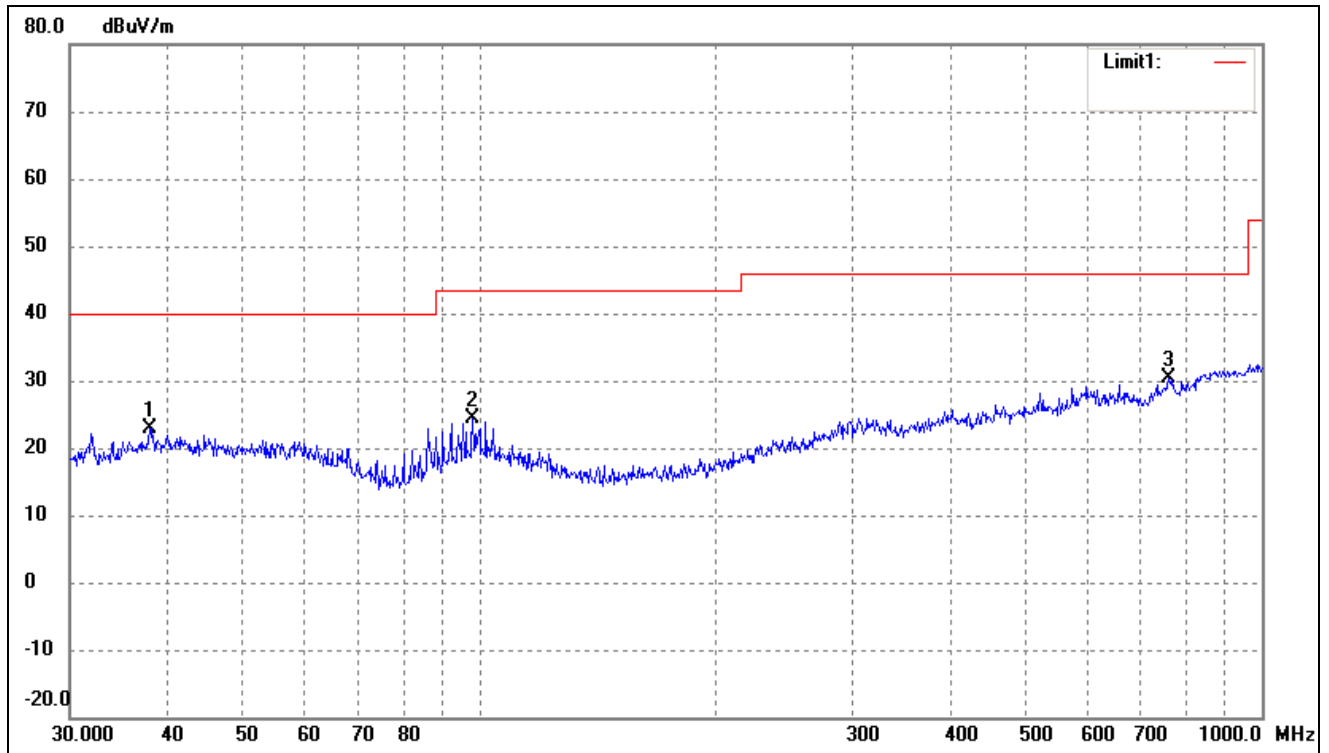
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.7147	15.46	7.17	22.63	40.00	-17.37	120	100	peak
2	98.1419	19.06	5.67	24.73	43.50	-18.77	250	100	peak
3	755.3873	16.41	14.40	30.81	46.00	-15.19	360	100	peak

Test Specification: Vertical

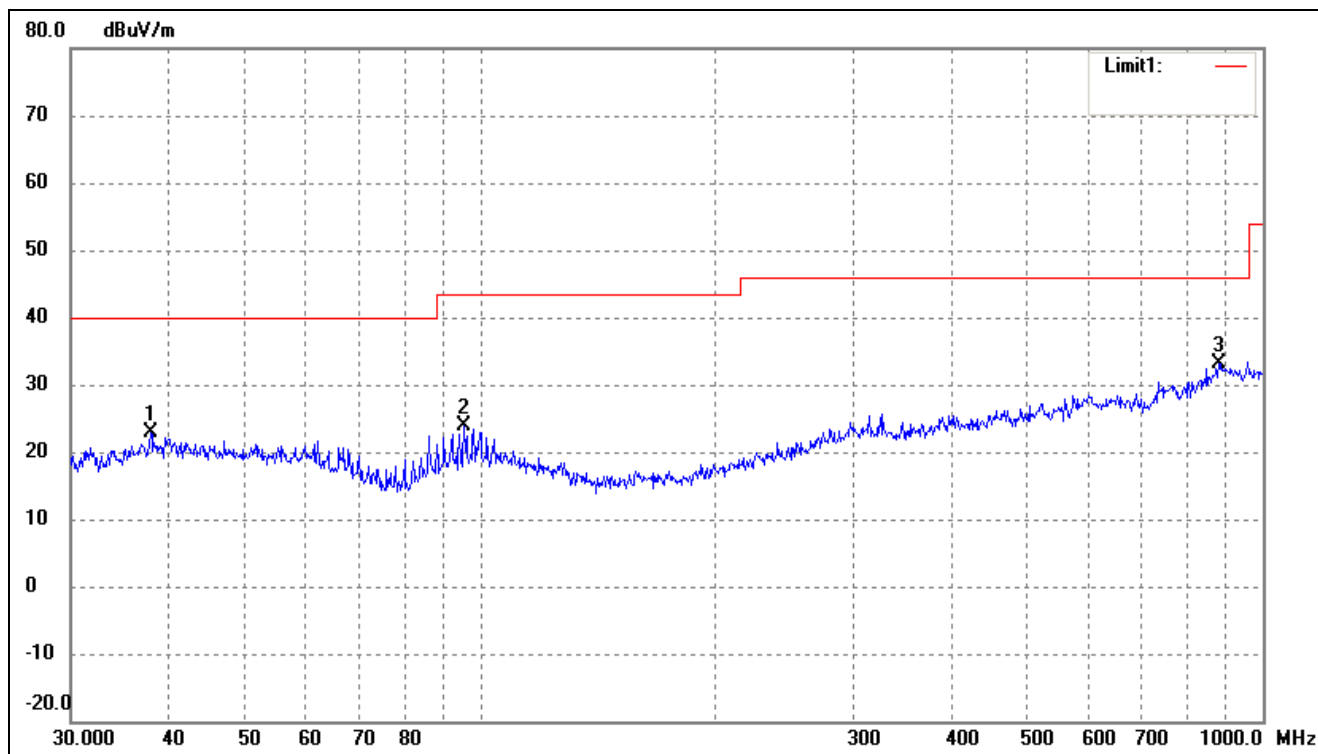


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	37.9450	13.93	8.90	22.83	40.00	-17.17	360	100	peak
2	98.1419	18.61	5.67	24.28	43.50	-19.22	200	100	peak
3	760.7036	15.65	14.61	30.26	46.00	-15.74	120	100	peak

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

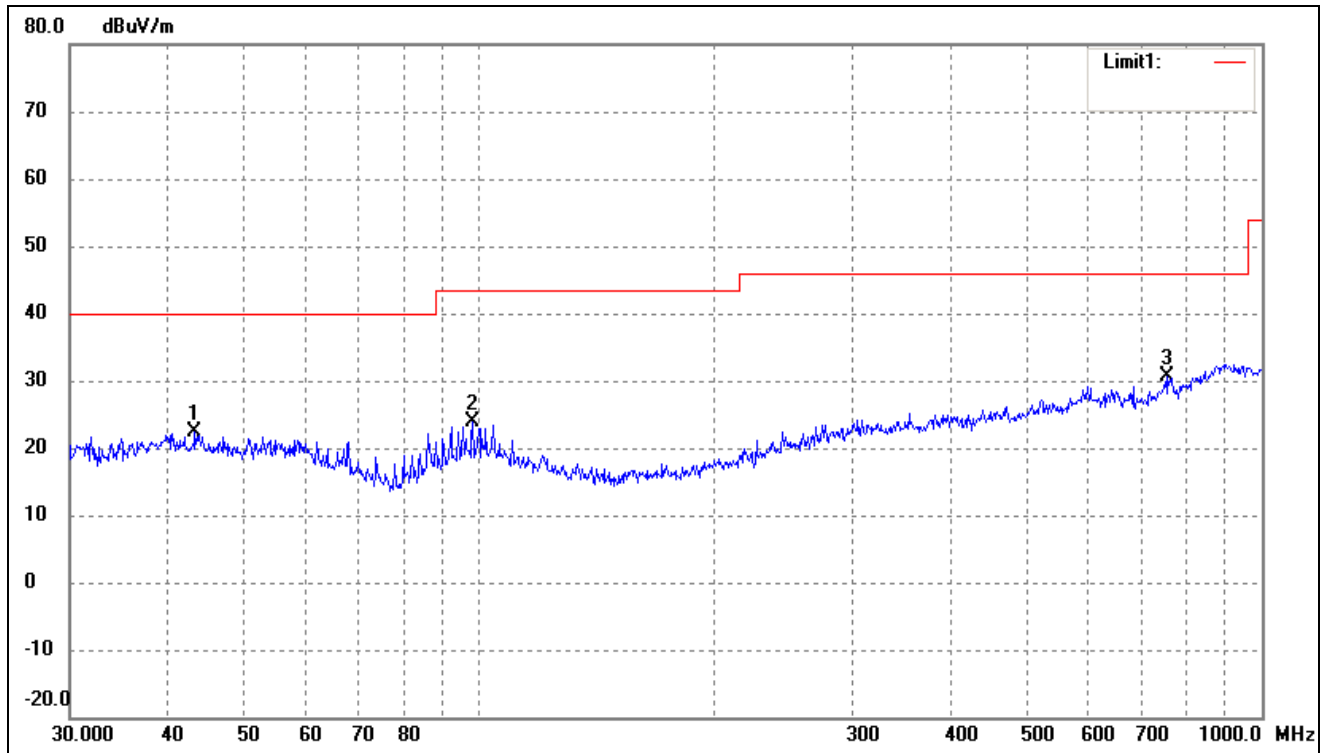
EUT: Tablet PC
Tested Model: M72DW2-SP(AP)
Operating Condition: 802.11g Transmitting Low Channel-2412MHz
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	37.9450	16.07	6.70	22.77	40.00	-17.23	170	100	peak
2	95.4270	18.92	4.98	23.90	43.50	-19.60	220	100	peak
3	878.3214	16.36	16.78	33.14	46.00	-12.86	320	100	peak

Test Specification: Vertical

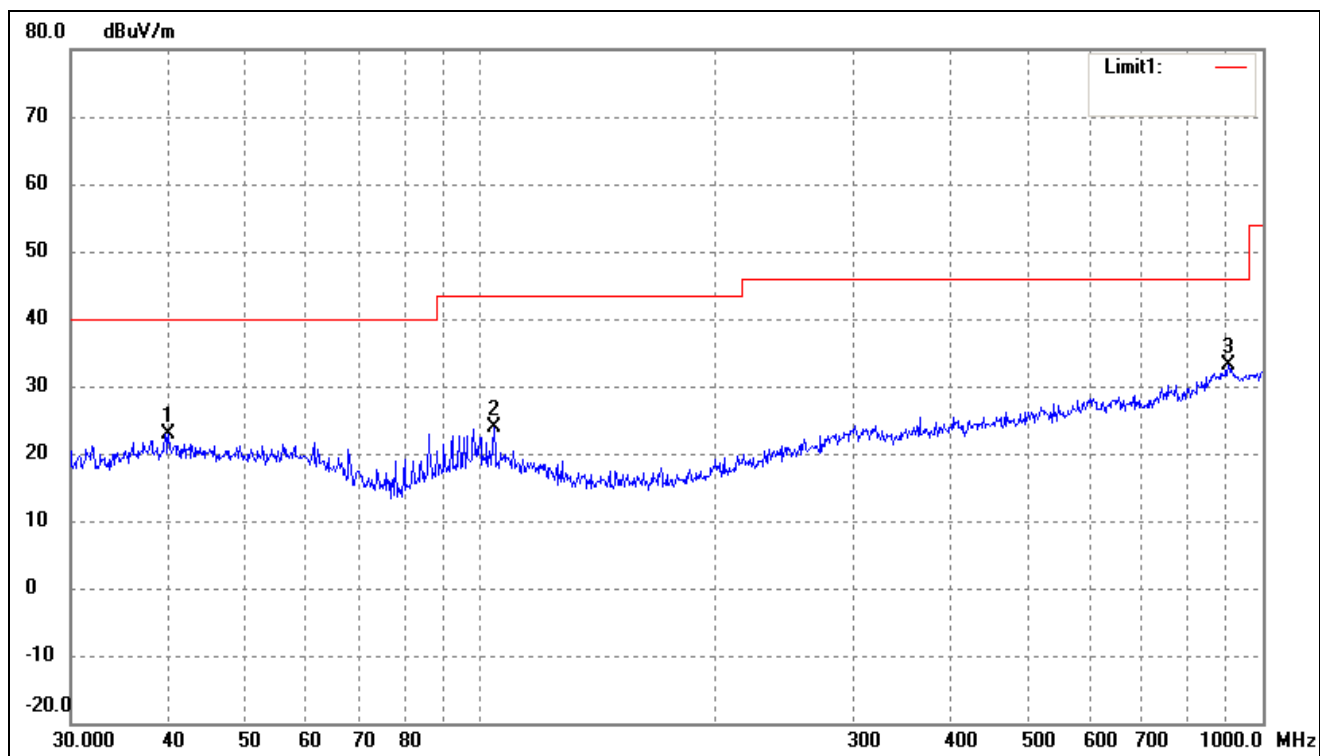


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	43.3534	14.25	8.24	22.49	40.00	-17.51	270	100	peak
2	98.1419	18.23	5.67	23.90	43.50	-19.60	190	100	peak
3	758.0408	15.91	14.74	30.65	46.00	-15.35	360	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

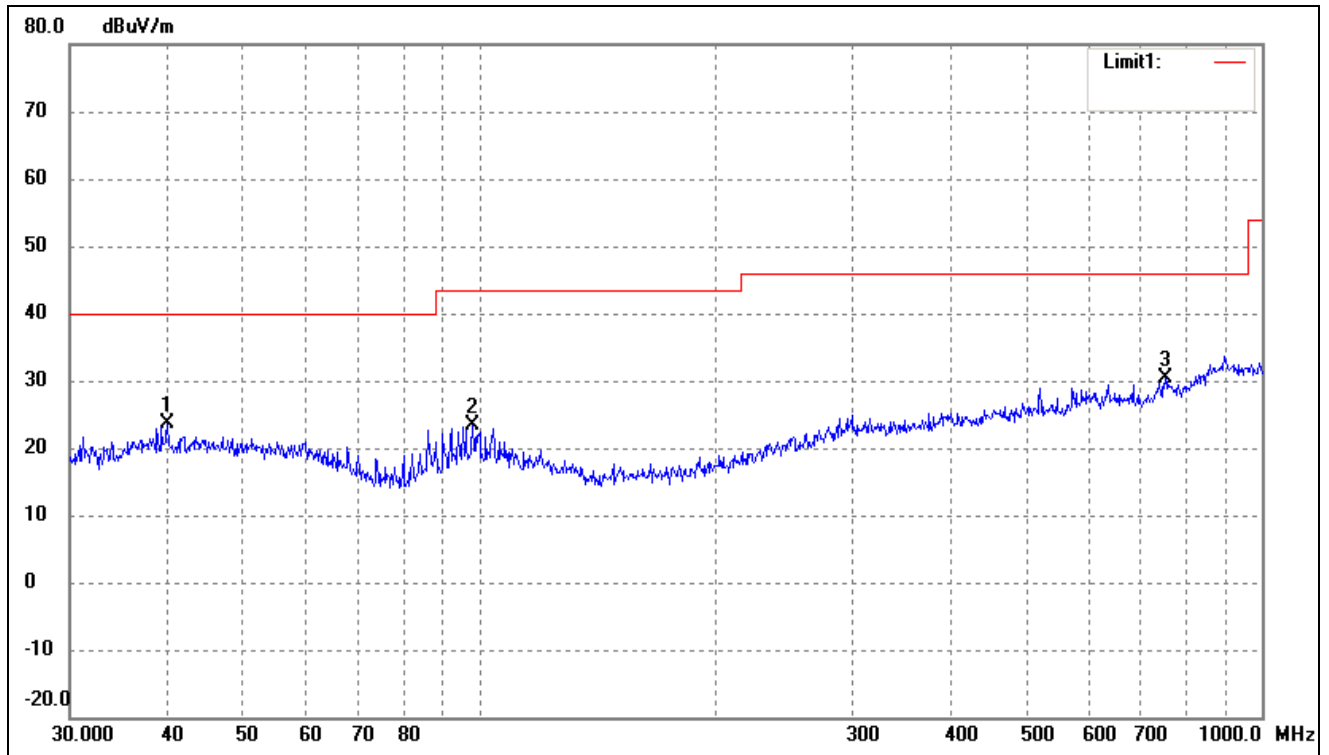
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.9942	15.68	7.25	22.93	40.00	-17.07	270	100	peak
2	104.1701	18.26	5.69	23.95	43.50	-19.55	160	100	peak
3	903.3094	16.45	16.79	33.24	46.00	-12.76	228	200	peak

Test Specification: Vertical

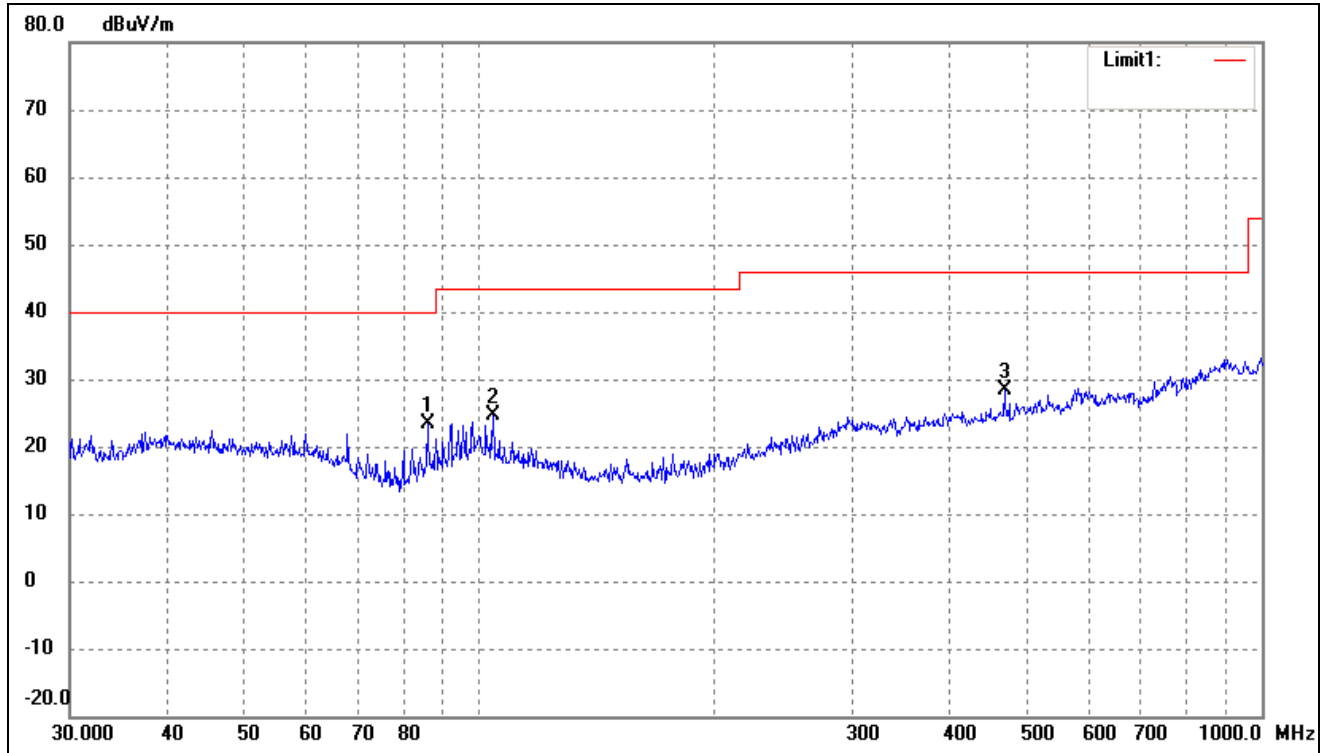


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	39.9942	14.28	9.25	23.53	40.00	-16.47	360	100	peak
2	98.1419	17.78	5.67	23.45	43.50	-20.05	120	100	peak
3	752.7432	15.28	14.98	30.26	46.00	-15.74	270	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

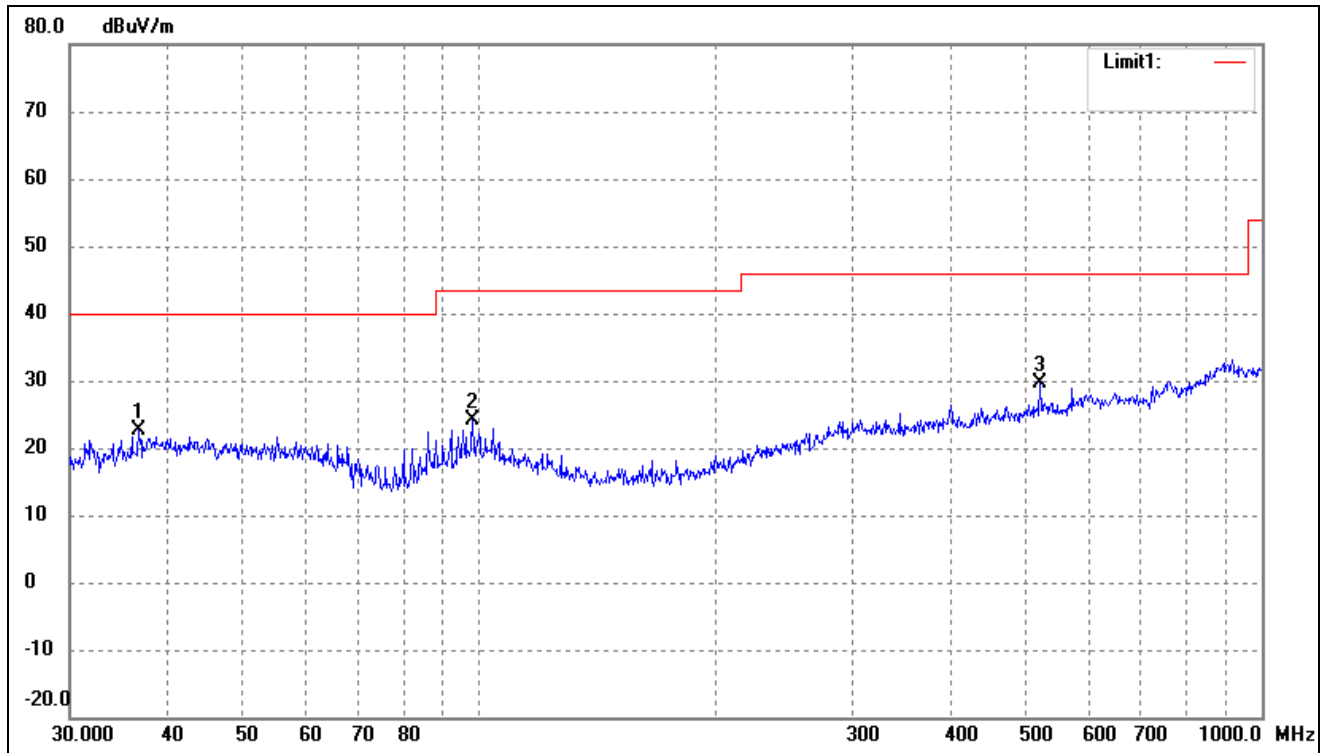
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	85.8984	20.91	2.54	23.45	40.00	-16.55	270	100	peak
2	104.1701	19.01	5.69	24.70	43.50	-18.80	150	100	peak
3	468.8762	18.12	10.37	28.49	46.00	-17.51	360	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	36.7662	13.89	8.70	22.59	40.00	-17.41	360	100	peak
2	98.1419	18.36	5.67	24.03	43.50	-19.47	180	100	peak
3	520.8882	18.22	11.37	29.59	46.00	-16.41	120	100	peak

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

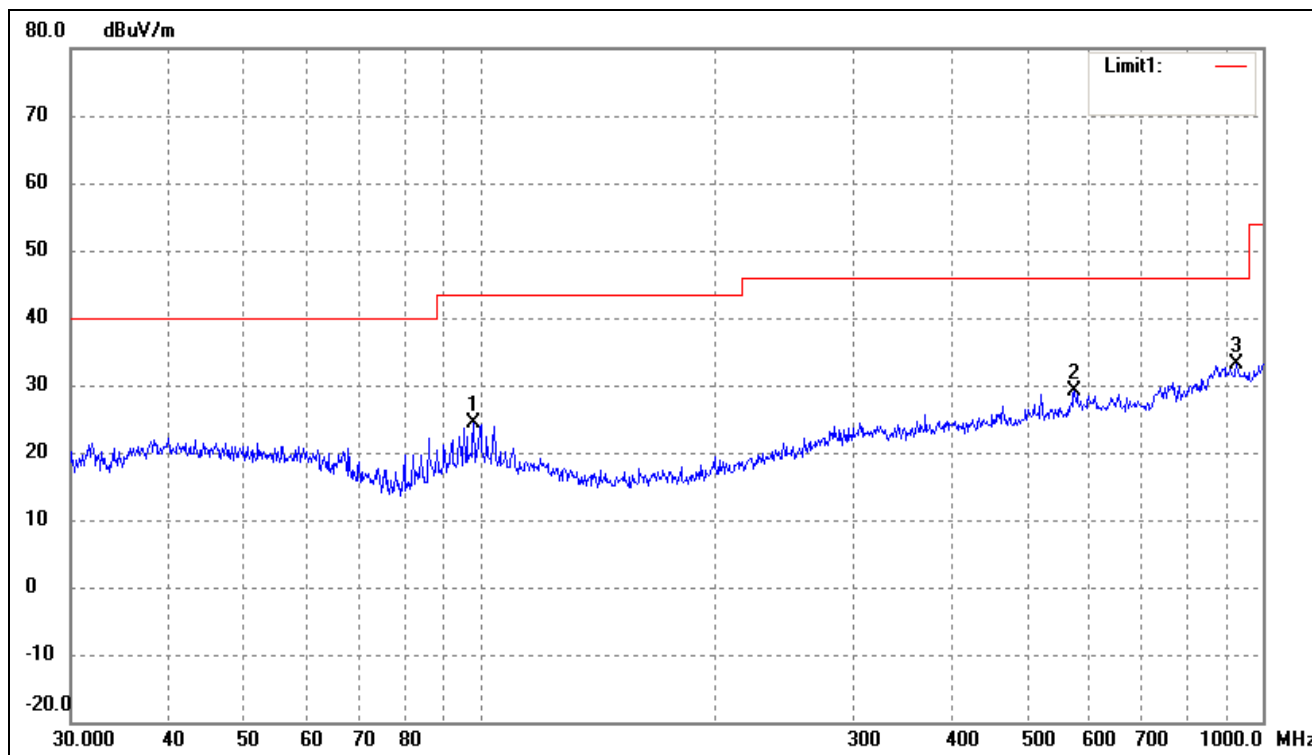
EUT: Tablet PC

Tested Model: M72DW2-SP(AP)

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

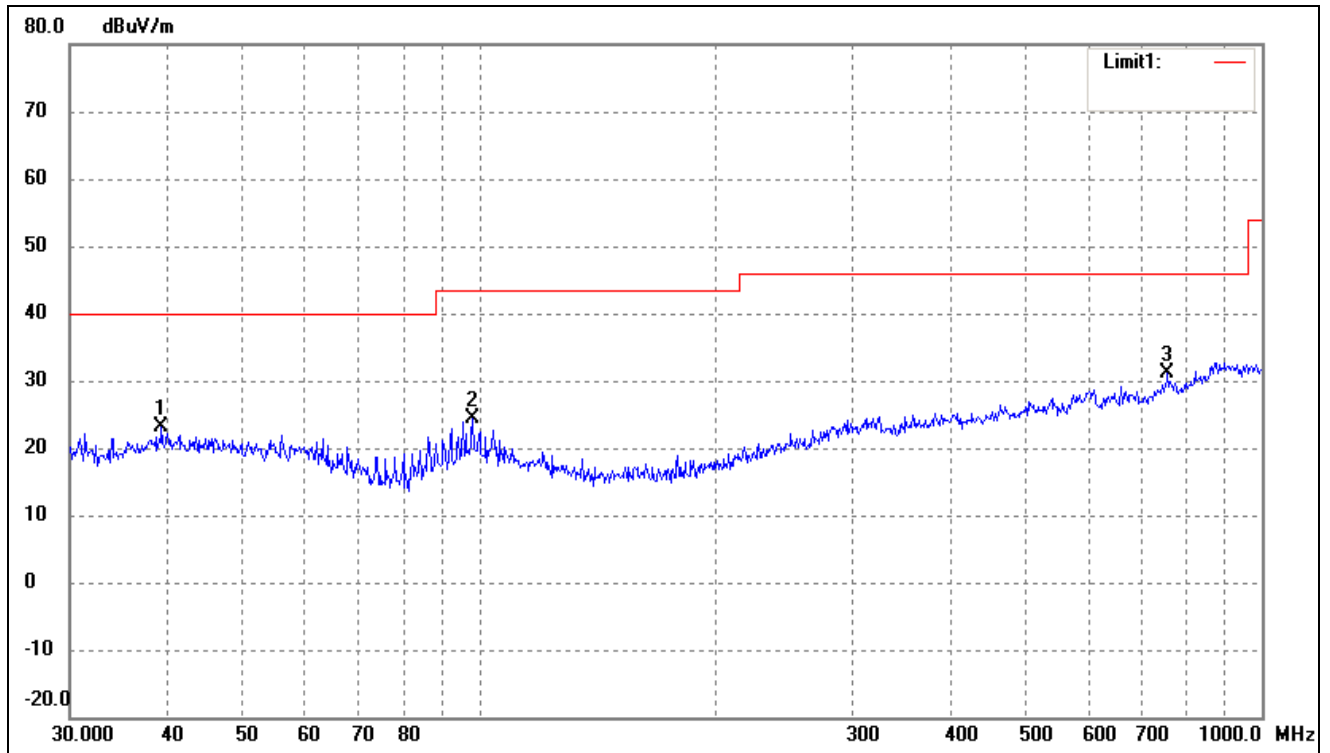
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	98.1419	18.83	5.67	24.50	43.50	-19.00	260	100	peak
2	574.6258	16.90	12.29	29.19	46.00	-16.81	120	200	peak
3	925.7563	16.66	16.40	33.06	46.00	-12.94	289	200	peak

Test Specification: Vertical

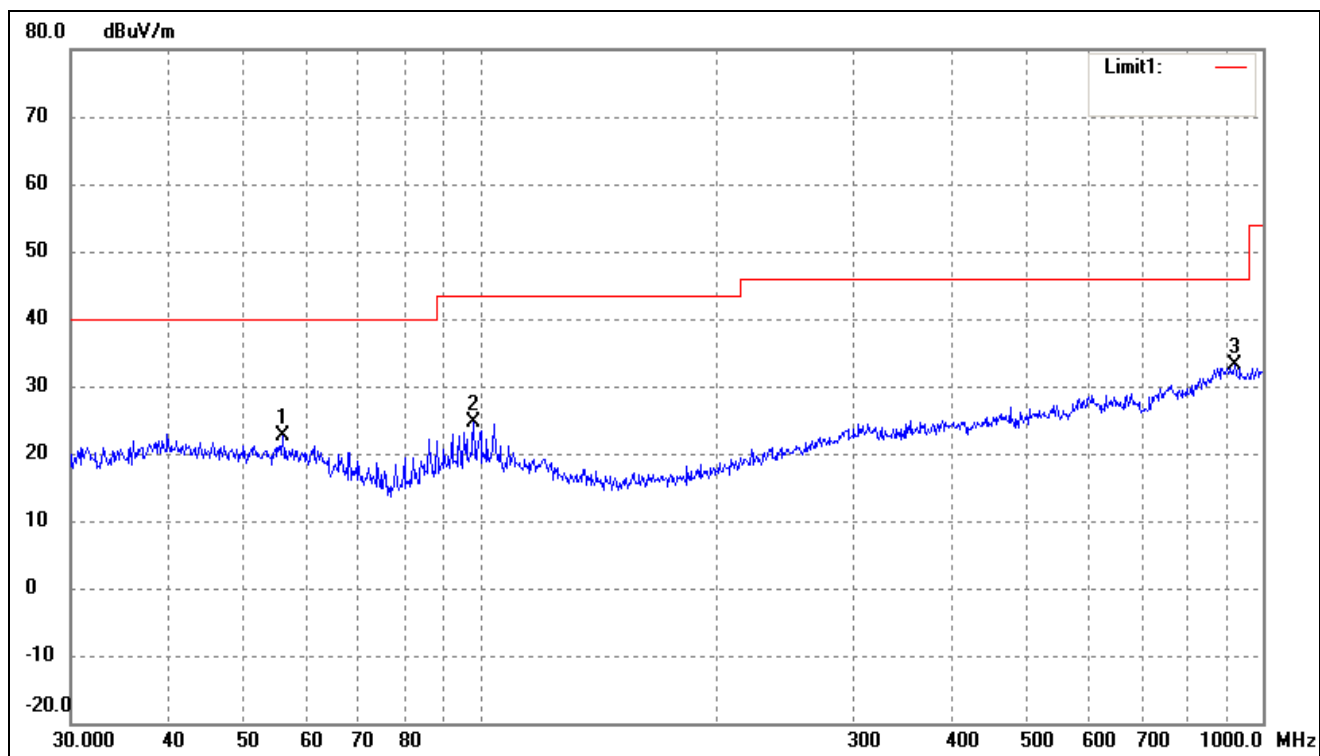


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.2991	14.03	9.13	23.16	40.00	-16.84	130	100	peak
2	98.1419	18.63	5.67	24.30	43.50	-19.20	120	100	peak
3	758.0408	16.50	14.74	31.24	46.00	-14.76	360	100	peak

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

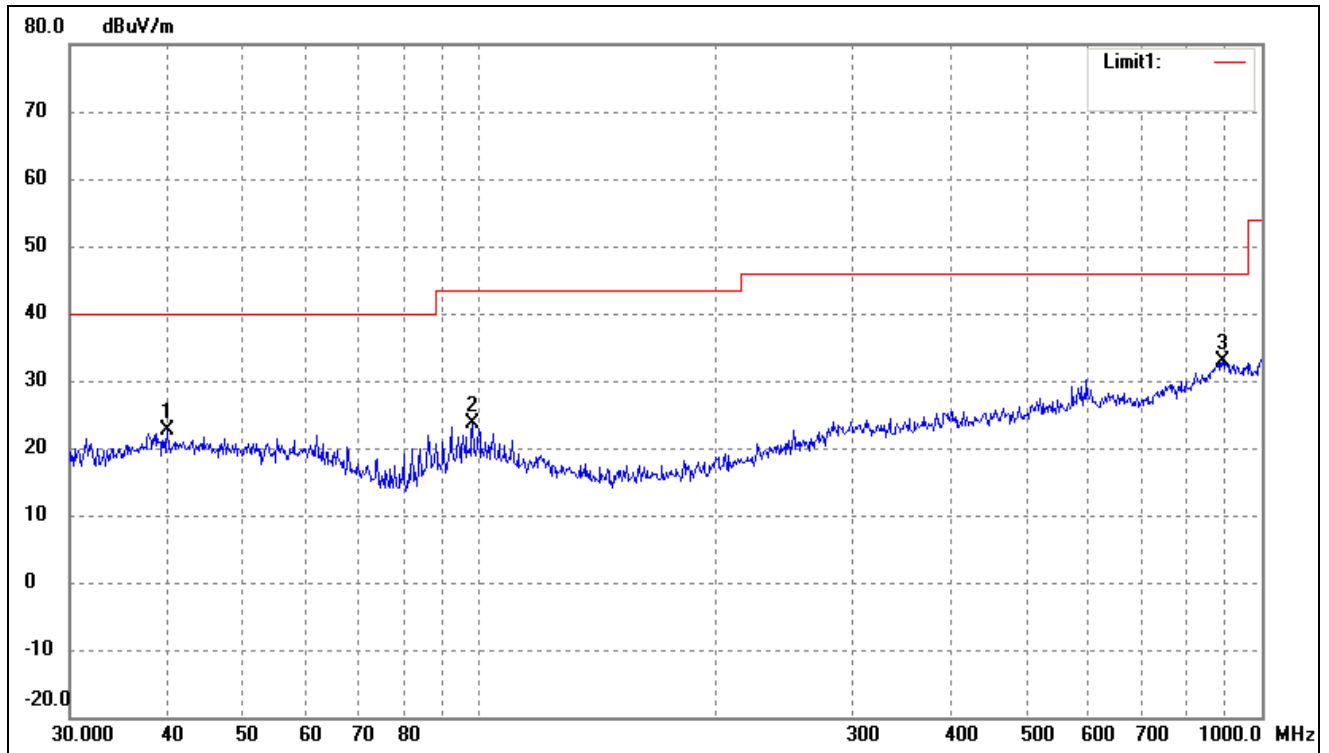
Comment: Battery DC 3.7V

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	56.0007	16.94	5.73	22.67	40.00	-17.33	274	100	peak
2	98.1419	18.89	5.67	24.56	43.50	-18.94	130	100	peak
3	922.5157	16.62	16.45	33.07	46.00	-12.93	120	100	peak

Test Specification: Vertical

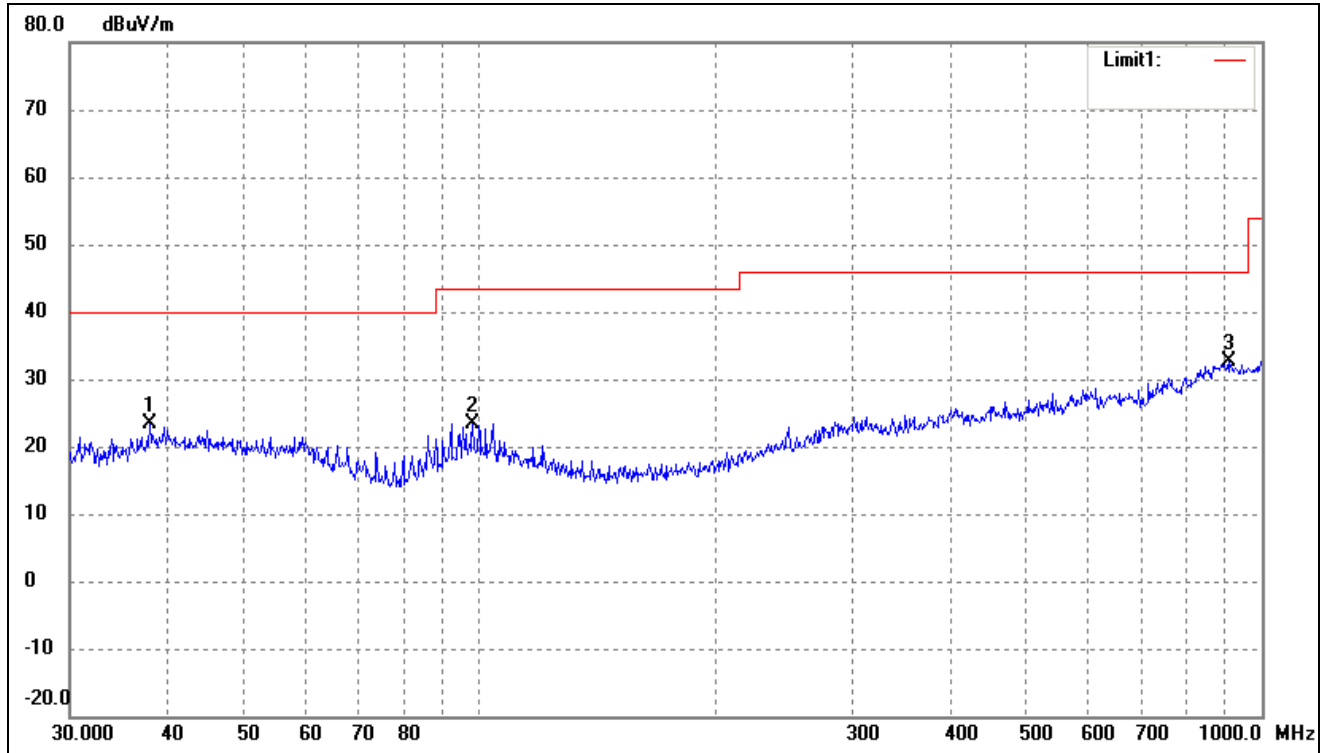


No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	39.9942	13.33	9.25	22.58	40.00	-17.42	360	100	peak
2	98.1419	18.07	5.67	23.74	43.50	-19.76	110	100	peak
3	890.7278	15.96	16.84	32.80	46.00	-13.20	120	100	peak

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

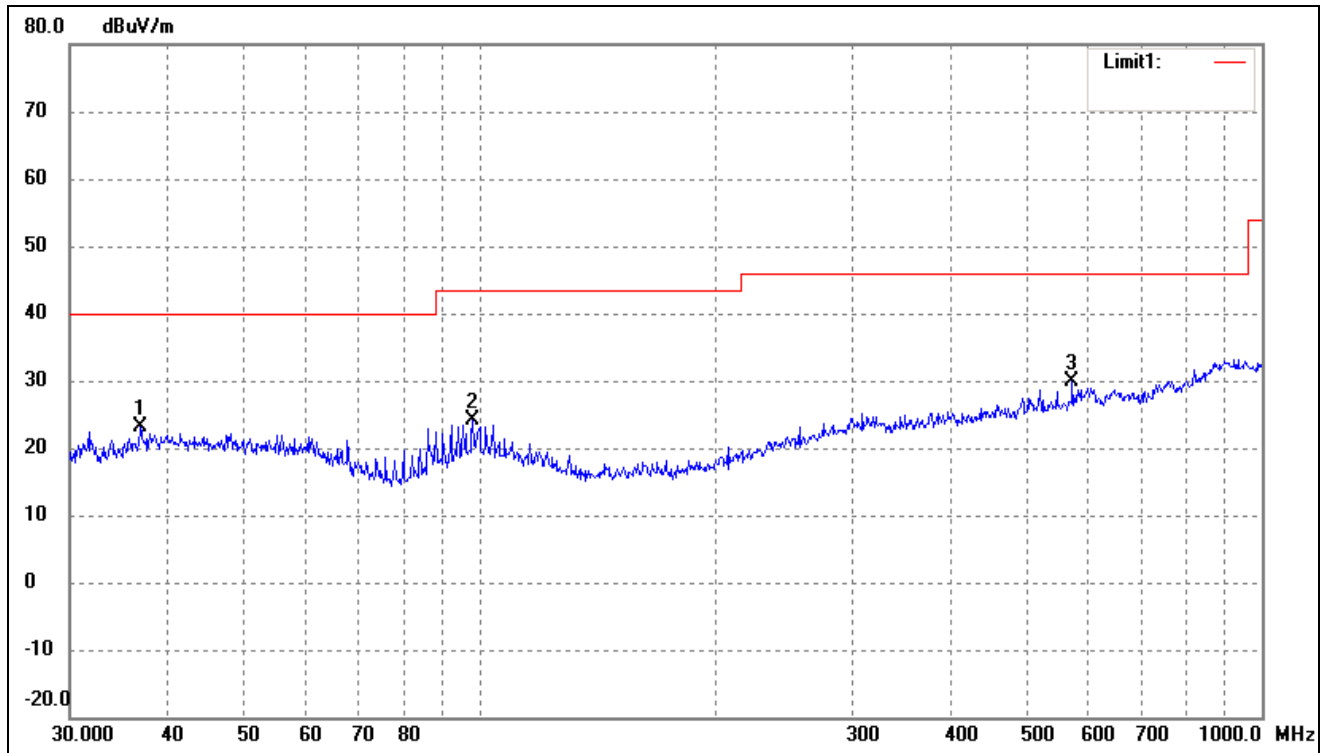
Comment: Battery DC 3.7V

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	37.9450	16.77	6.70	23.47	40.00	-16.53	360	100	peak
2	98.1419	17.80	5.67	23.47	43.50	-20.03	138	100	peak
3	909.6667	16.07	16.68	32.75	46.00	-13.25	180	200	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	36.8953	14.33	8.72	23.05	40.00	-16.95	270	100	peak
2	98.1419	18.49	5.67	24.16	43.50	-19.34	120	100	peak
3	572.6144	17.57	12.19	29.76	46.00	-16.24	360	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 Channel-2412MHz							
4824	59.24	0.57	59.81	74.00	-14.19	H	PK
4824	44.84	0.57	45.41	54.00	-8.59	H	AV
7236	35.01	3.69	38.70	74.00	-35.30	H	PK
7236	23.58	3.69	27.27	54.00	-26.73	H	AV
4824	50.85	0.57	51.42	74.00	-22.58	V	PK
4824	37.17	0.57	37.74	54.00	-16.26	V	AV
7236	34.80	3.69	38.49	74.00	-35.51	V	PK
7236	23.41	3.69	27.10	54.00	-26.90	V	AV
Middle Channel-2437MHz							
4874	57.35	0.64	57.99	74.00	-16.01	H	PK
4874	42.77	0.64	43.41	54.00	-10.59	H	AV
7311	37.61	3.75	41.36	74.00	-32.64	H	PK
7311	25.87	3.75	29.62	54.00	-24.38	H	AV
4874	51.19	0.64	51.83	74.00	-22.17	V	PK
4874	37.61	0.64	38.25	54.00	-15.75	V	AV
7311	38.83	3.75	42.58	74.00	-31.42	V	PK
7311	25.84	3.75	29.59	54.00	-24.41	V	AV
High Channel-2462MHz							
4924	56.32	0.72	57.04	74.00	-16.96	H	PK
4924	42.94	0.72	43.66	54.00	-10.34	H	AV
7386	37.91	3.81	41.72	74.00	-32.28	H	PK
7386	27.26	3.81	31.07	54.00	-22.93	H	AV
4924	53.07	0.72	53.79	74.00	-20.21	V	PK
4924	39.42	0.72	40.14	54.00	-13.86	V	AV
7386	38.69	3.81	42.50	74.00	-31.50	V	PK
7386	27.20	3.81	31.01	54.00	-22.99	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 Channel-2412MHz							
4824	43.22	0.57	43.79	74.00	-30.21	H	PK
4824	33.44	0.57	34.01	54.00	-19.99	H	AV
7236	51.85	3.69	55.54	74.00	-18.46	H	PK
7236	38.08	3.69	41.77	54.00	-12.23	H	AV
4824	43.41	0.57	43.98	74.00	-30.02	V	PK
4824	33.42	0.57	33.99	54.00	-20.01	V	AV
7236	51.08	3.69	54.77	74.00	-19.23	V	PK
7236	37.86	3.69	41.55	54.00	-12.45	V	AV
Middle Channel-2437MHz							
4874	44.60	0.64	45.24	74.00	-28.76	H	PK
4874	32.02	0.64	32.66	54.00	-21.34	H	AV
7311	50.42	3.75	54.17	74.00	-19.83	H	PK
7311	36.66	3.75	40.41	54.00	-13.59	H	AV
4874	43.90	0.64	44.54	74.00	-29.46	V	PK
4874	31.96	0.64	32.60	54.00	-21.40	V	AV
7311	53.12	3.75	56.87	74.00	-17.13	V	PK
7311	38.75	3.75	42.50	54.00	-11.50	V	AV
High Channel-2462MHz							
4924	43.28	0.72	44.00	74.00	-30.00	H	PK
4924	31.87	0.72	32.59	54.00	-21.41	H	AV
7386	48.11	3.81	51.92	74.00	-22.08	H	PK
7386	37.07	3.81	40.88	54.00	-13.12	H	AV
4924	41.50	0.72	42.22	74.00	-31.78	V	PK
4924	32.04	0.72	32.76	54.00	-21.24	V	AV
7386	48.19	3.81	52.00	74.00	-22.00	V	PK
7386	36.98	3.81	40.79	54.00	-13.21	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 Channel-2412MHz							
4824	42.52	0.57	43.09	74.00	-30.91	H	PK
4824	33.62	0.57	34.19	54.00	-19.81	H	AV
7236	36.52	3.69	40.21	74.00	-33.79	H	PK
7236	34.01	3.69	37.70	54.00	-16.30	H	AV
4824	43.82	0.57	44.39	74.00	-29.61	V	PK
4824	33.65	0.57	34.22	54.00	-19.78	V	AV
7236	54.17	3.69	57.86	74.00	-16.14	V	PK
7236	37.36	3.69	41.05	54.00	-12.95	V	AV
Middle Channel-2437MHz							
4874	45.17	0.64	45.81	74.00	-28.19	H	PK
4874	31.94	0.64	32.58	54.00	-21.42	H	AV
7311	48.62	3.75	52.37	74.00	-21.63	H	PK
7311	38.35	3.75	42.10	54.00	-11.90	H	AV
4874	44.60	0.64	45.24	74.00	-28.76	V	PK
4874	32.02	0.64	32.66	54.00	-21.34	V	AV
7311	53.52	3.75	57.27	74.00	-16.73	V	PK
7311	38.46	3.75	42.21	54.00	-11.79	V	AV
High Channel-2462MHz							
4924	42.76	0.72	43.48	74.00	-30.52	H	PK
4924	31.98	0.72	32.70	54.00	-21.30	H	AV
7386	50.45	3.81	54.26	74.00	-19.74	H	PK
7386	38.35	3.81	42.16	54.00	-11.84	H	AV
4924	42.40	0.72	43.12	74.00	-30.88	V	PK
4924	32.14	0.72	32.86	54.00	-21.14	V	AV
7386	54.24	3.81	58.05	74.00	-15.95	V	PK
7386	39.20	3.81	43.01	54.00	-10.99	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3th 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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	R&S	FSP	836079/035	2014-05-28	2015-05-27
EMI Test Receiver	R&S	ESVB	825471/005	2014-05-28	2015-05-27
Pre-amplifier	Agilent	8447F	3113A06717	2014-05-28	2015-05-27
Pre-amplifier	Compliance Direction	PAP-0118	24002	2014-05-28	2015-05-27
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2014-05-24	2015-05-23
Horn Antenna	ETS	3117	00086197	2014-05-24	2015-05-23

9.3 Test Procedure

According to the KDB 558074D01 v03r02, 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 V03r02, 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.

9.4 Environmental Conditions

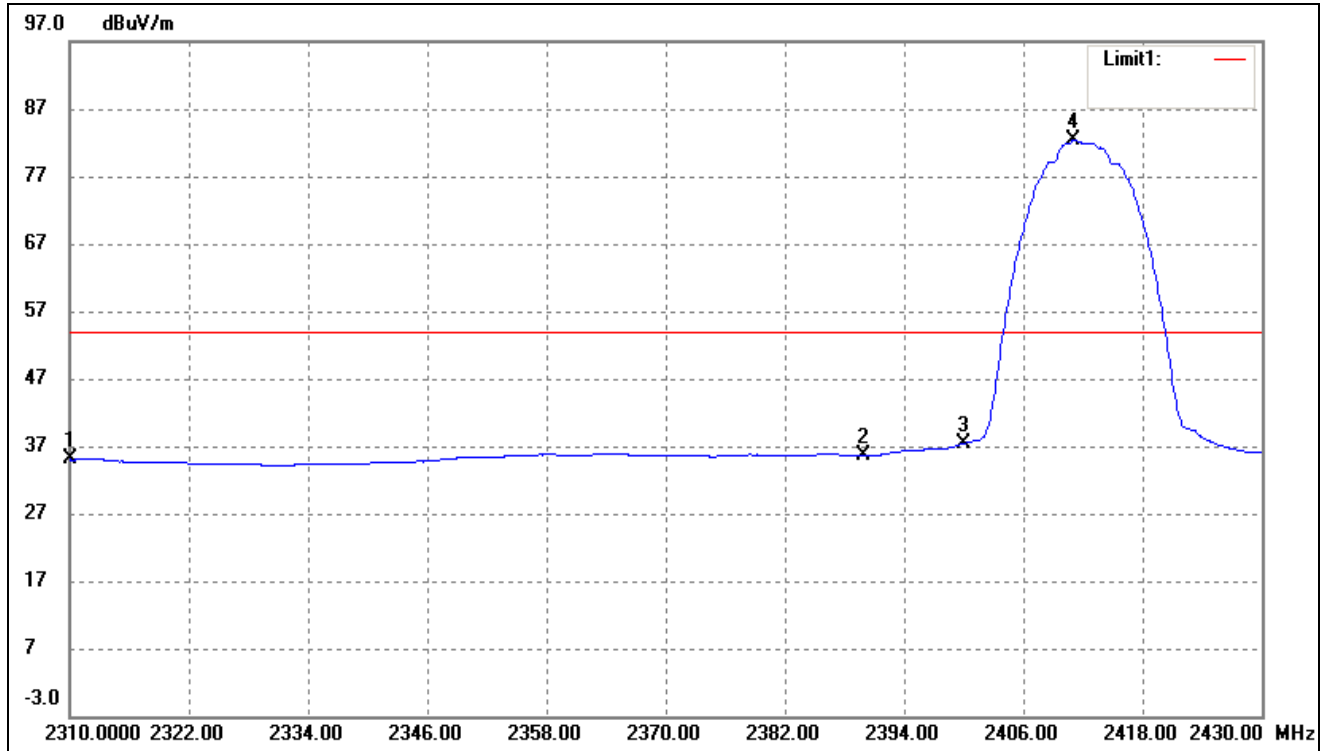
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.5 Summary of Test Results/Plots

Please refer to the test plots as below.

802.11b-Lowest Bandedge

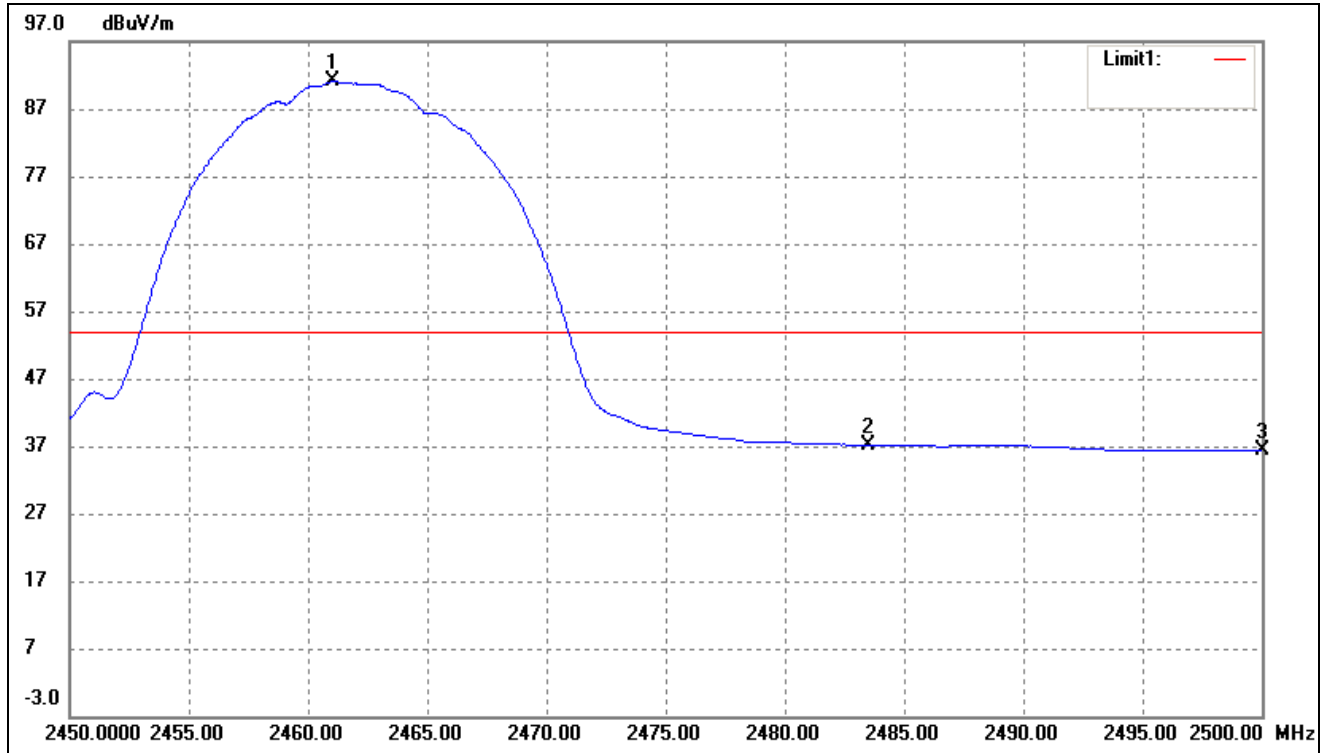
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	18.68	16.34	35.02	54.00	-18.98	Average Detector
	2310.000	31.80	16.34	48.14	74.00	-25.86	Peak Detector
2	2390.000	18.58	17.03	35.61	54.00	-18.39	Average Detector
	2390.000	32.56	17.03	49.59	74.00	-24.41	Peak Detector
3	2400.000	20.30	17.11	37.41	Delta=44.98dBc		Average Detector
	2411.040	65.20	17.19	82.39			Average Detector

802.11b-Highest Bandedge

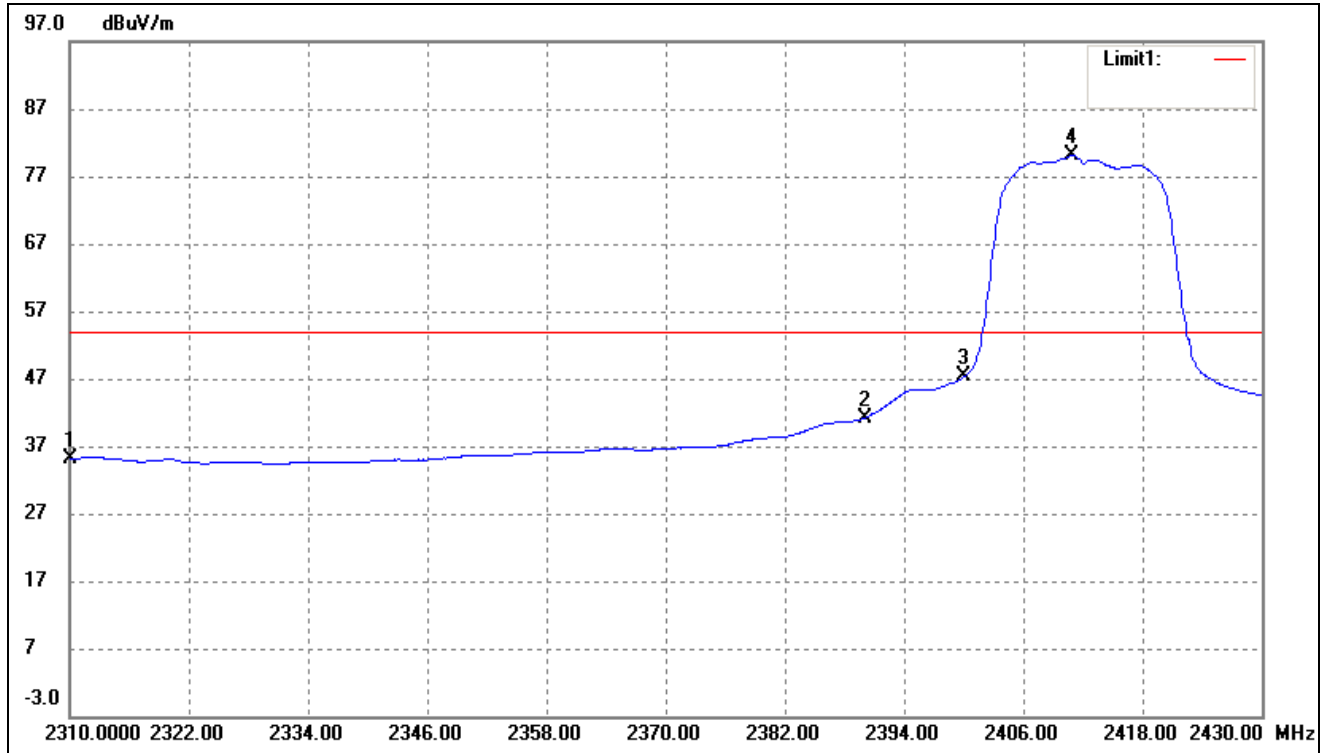
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2461.050	73.57	17.56	91.13	/	/	Average Detector
	2461.850	81.73	17.57	99.30	/	/	Peak Detector
2	2483.500	Delta =50.32dBc		40.81	54.00	-13.19	Average Detector
	2483.500			48.98	74.00	-25.02	Peak Detector
3	2500.000	18.55	17.86	36.41	54.00	-17.59	Average Detector
	2500.000	29.87	17.86	47.73	74.00	-26.27	Peak Detector

802.11g-Lowest Bandedge

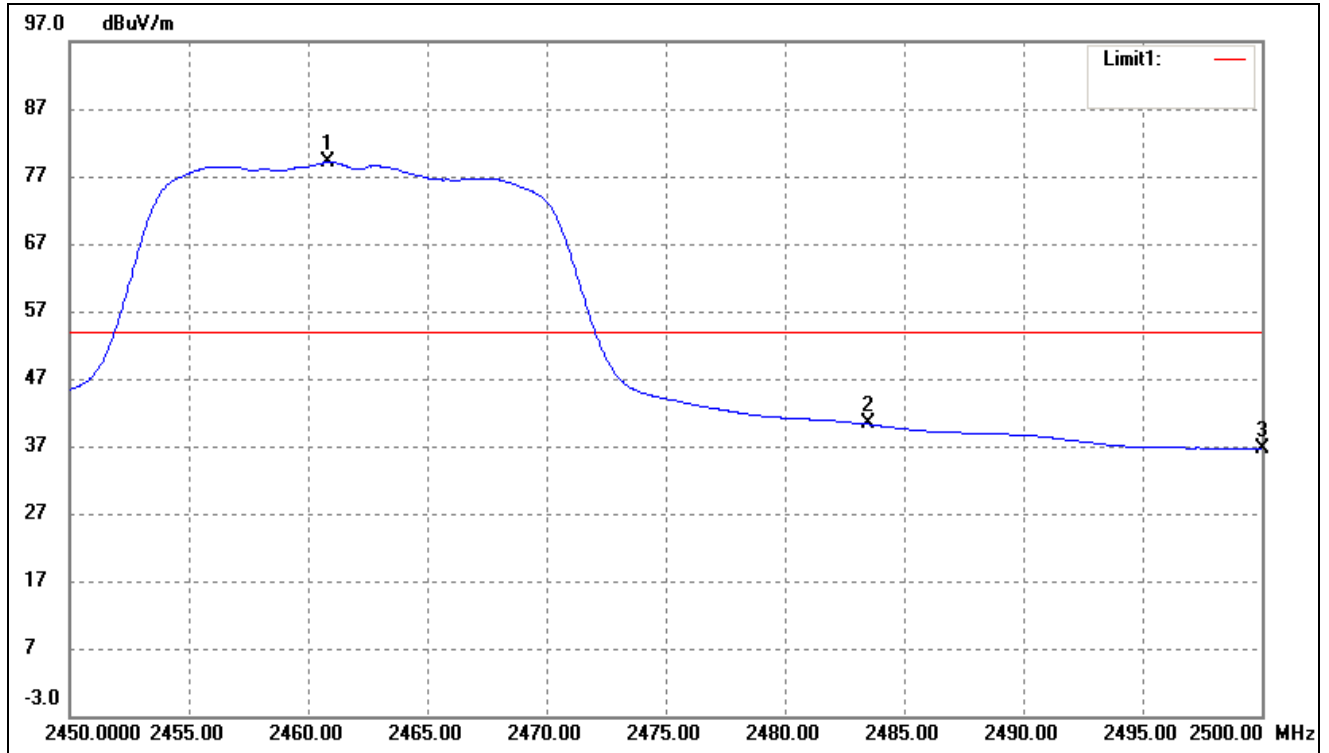
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	18.85	16.34	35.19	54.00	-18.81	Average Detector
	2310.000	30.04	16.34	46.38	74.00	-27.62	Peak Detector
2	2390.000	24.15	17.03	41.18	54.00	-12.82	Average Detector
	2390.000	34.76	17.03	51.79	74.00	-22.21	Peak Detector
3	2400.000	30.16	17.11	47.27	Delta=32.80dBc		Average Detector
	2410.800	62.88	17.19	80.07			Average Detector

802.11g-Highest Bandedge

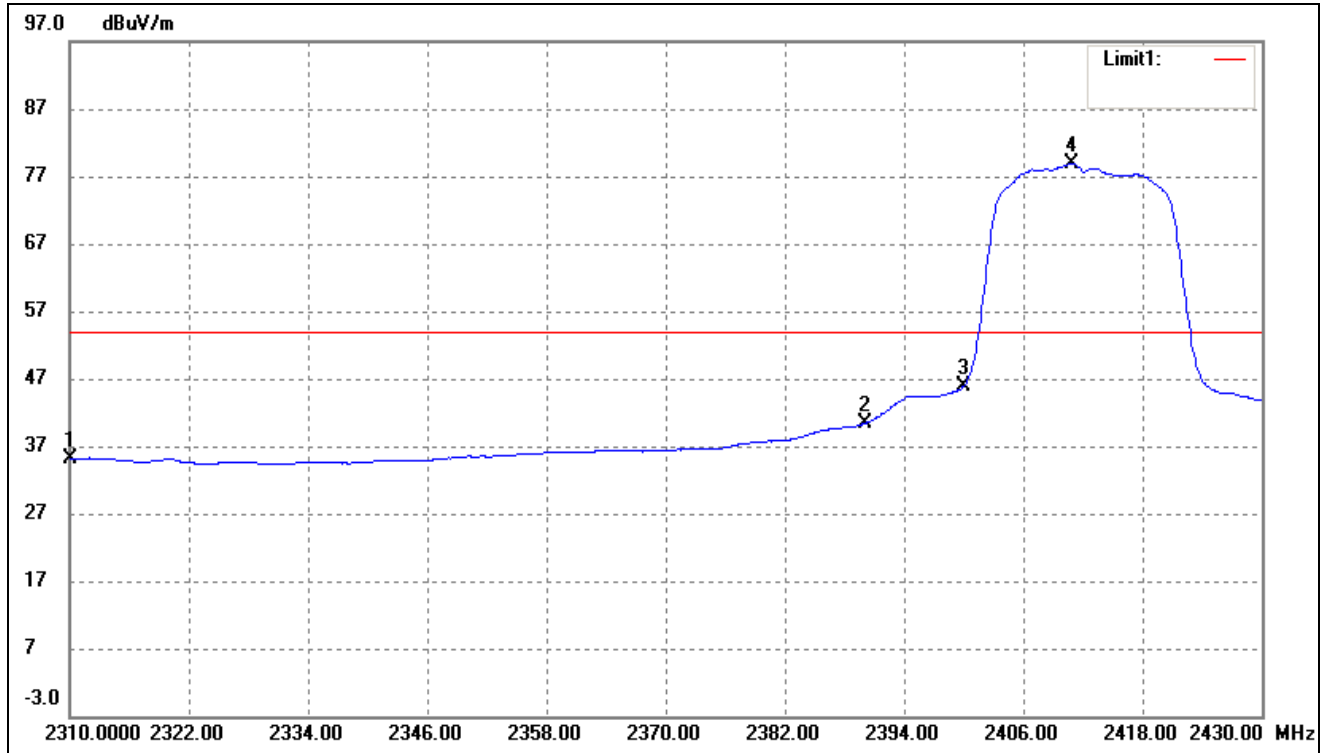
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.850	61.58	17.56	79.14	/	/	Average Detector
	2461.250	82.48	17.57	100.05	/	/	Peak Detector
2	2483.500	Delta = 44.83dBc		34.31	54.00	-19.69	Average Detector
	2483.500			55.22	74.00	-18.78	Peak Detector
3	2500.000	18.71	17.86	36.57	54.00	-17.43	Average Detector
	2500.000	30.32	17.86	48.18	74.00	-25.82	Peak Detector

802.11n-HT20-Lowest Bandedge

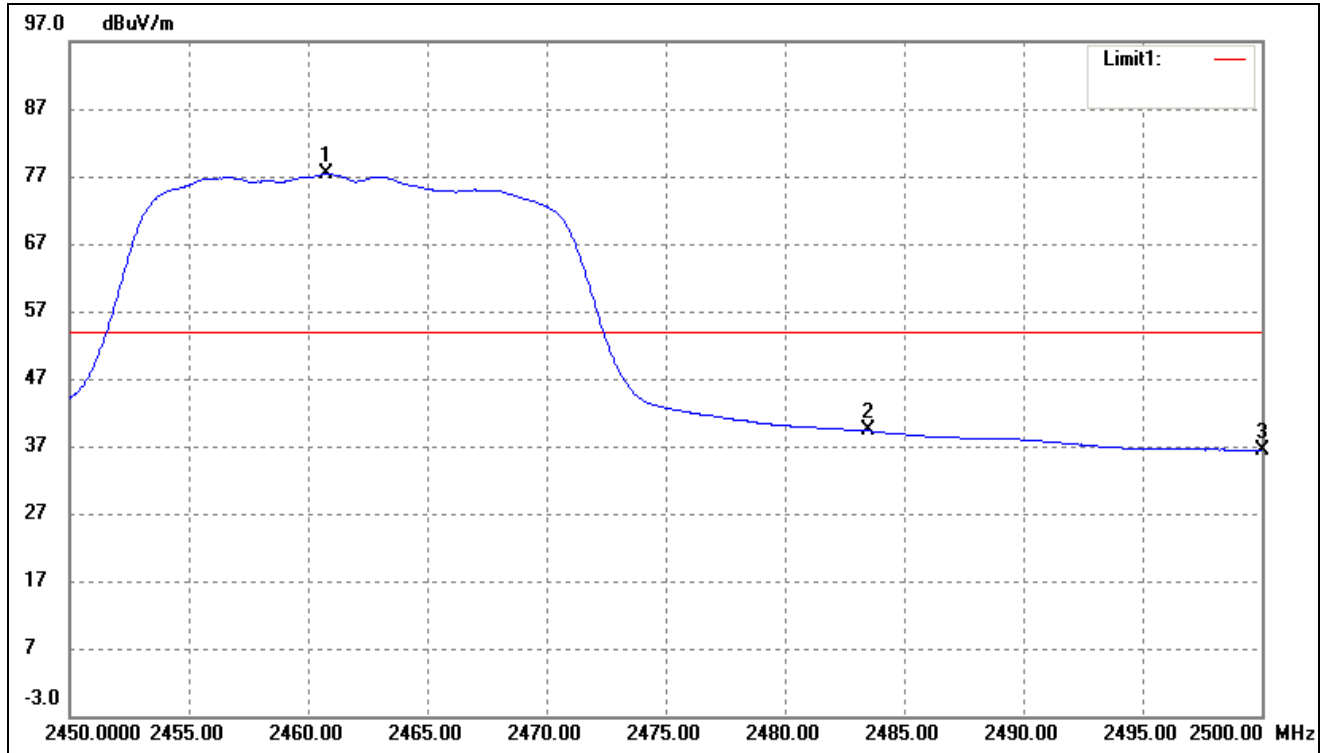
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	18.82	16.34	35.16	54.00	-18.84	Average Detector
	2310.000	30.90	16.34	47.24	74.00	-26.76	Peak Detector
2	2390.000	23.35	17.03	40.38	54.00	-13.62	Average Detector
	2390.000	39.49	17.03	56.52	74.00	-17.48	Peak Detector
3	2400.000	28.86	17.11	45.97	Delta=32.92dBc		Average Detector
	2410.800	61.70	17.19	78.89			Average Detector

802.11n-HT20-Highest Bandedge

Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2460.750	59.83	17.56	77.39	/	/	Average Detector
	2463.050	81.27	17.58	98.85	/	/	Peak Detector
2	2483.500	Delta = 42.97dBc		34.42	54.00	-19.58	Average Detector
	2483.500			55.88	74.00	-18.12	Peak Detector
3	2500.000	18.55	17.86	36.41	54.00	-17.59	Average Detector
	2500.000	30.84	17.86	48.70	74.00	-25.30	Peak Detector

10. Conducted Emissions

10.1 Measurement Uncertainty

Base on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is ± 2.88 dB.

10.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2014-05-28	2015-05-27
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2014-05-28	2015-05-27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2014-05-28	2015-05-27

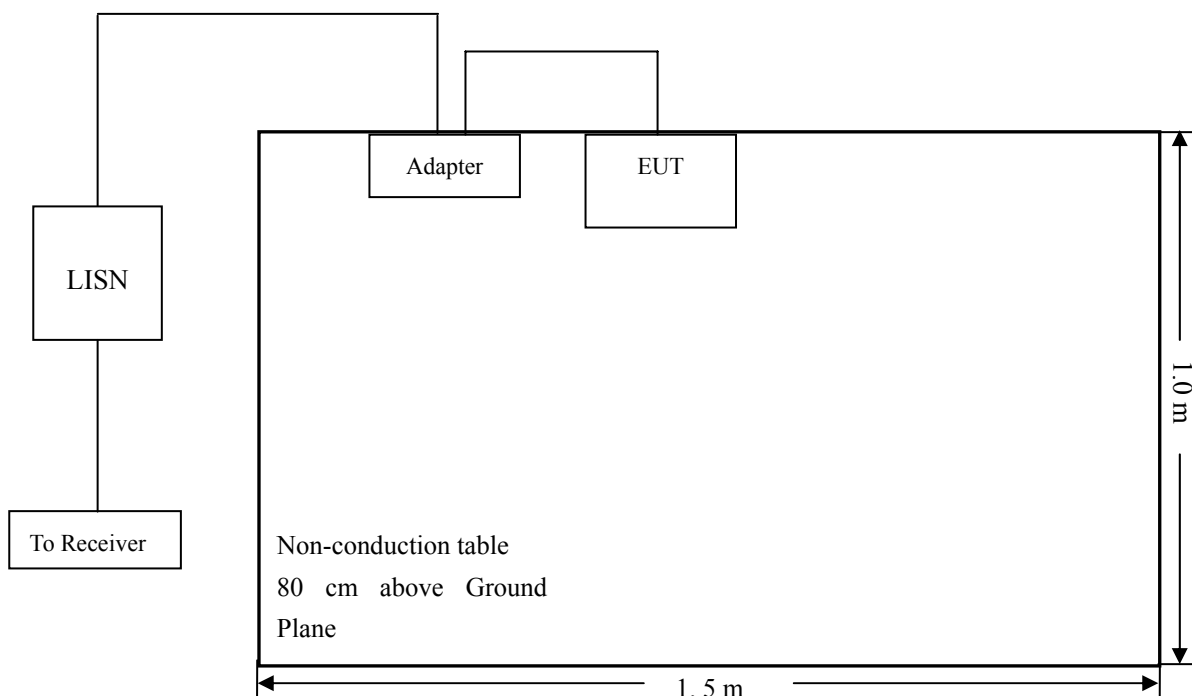
10.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2003 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.

10.4 Basic Test Setup Block Diagram



10.5 Environmental Conditions

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

10.6 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

10.7 Summary of Test Results/Plots

According to the data in section 9.8, the EUT complied with the FCC Part 15.207 Conducted margin for a Class B device, with the *worst* margin reading of:

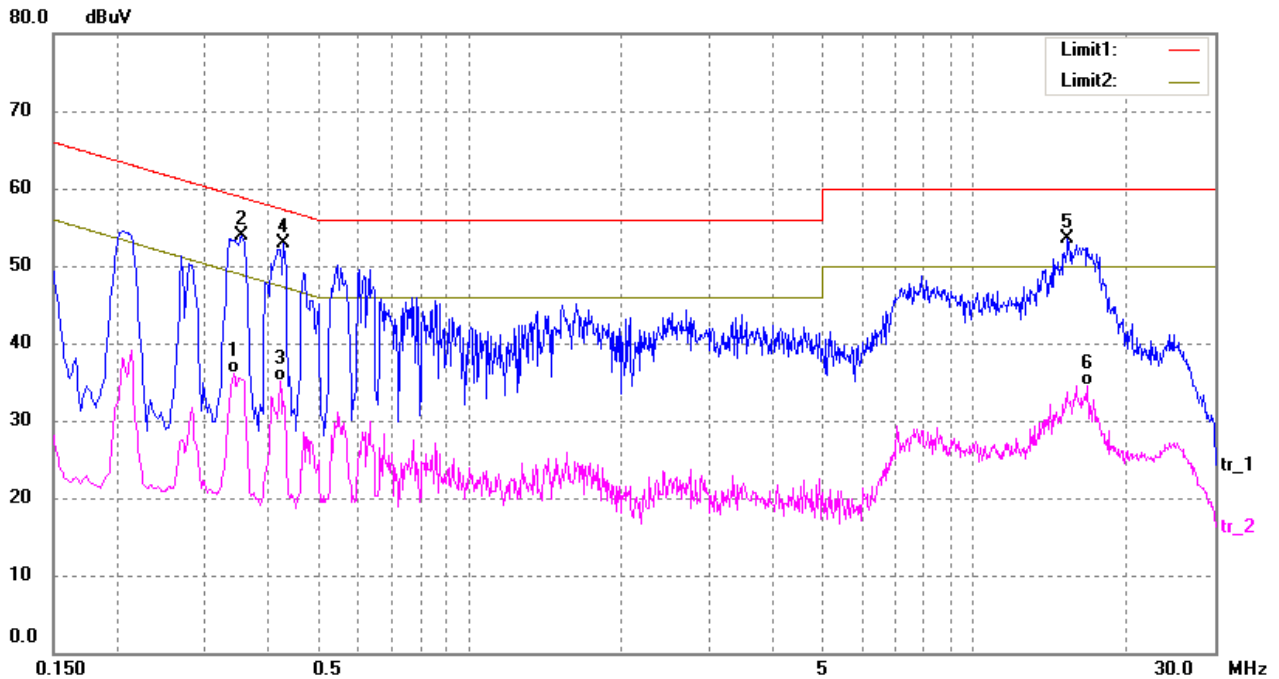
-4.02 dB at 0.5700 MHz in the Line mode, Peak detector, 0.15-30MHz

10.8 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

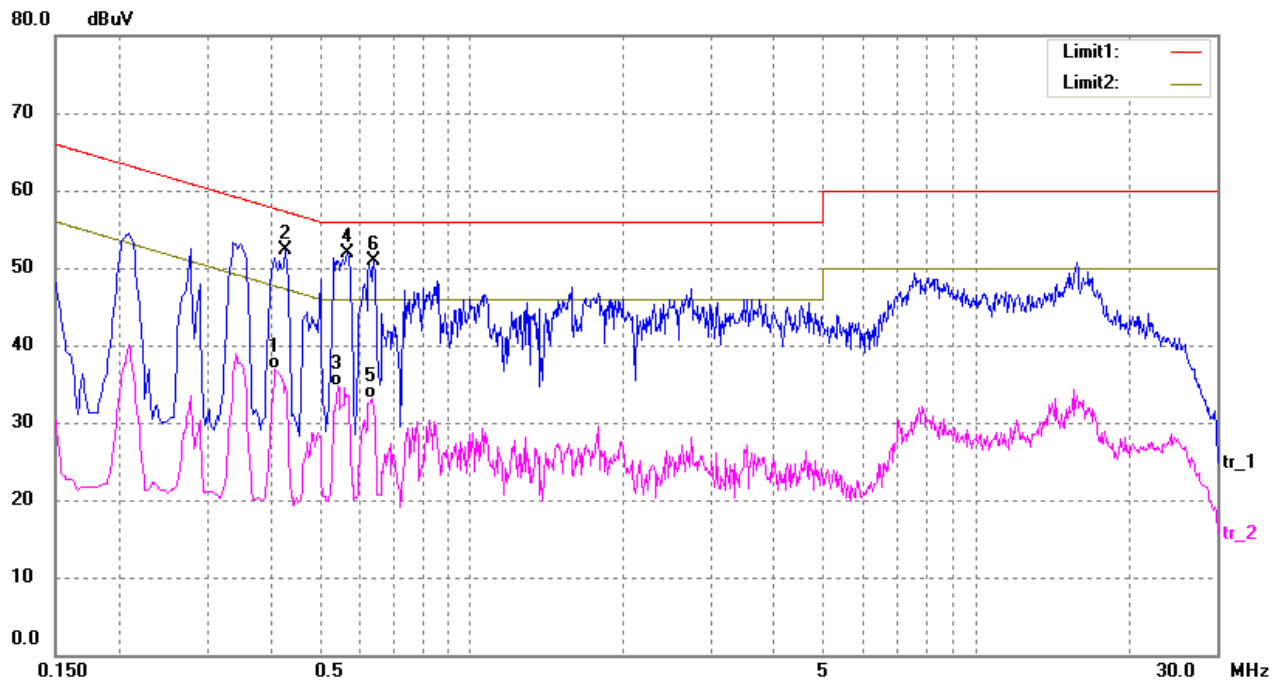
EUT: Tablet PC
Tested Model: M72DW2-SP(AP)
Operating Condition: Transmitting(Wi-Fi)
Comment: AC 120V/60Hz, Adapter DC 5V

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.3420	26.52	9.50	36.02	49.15	-13.13	AVG
2	0.3540	44.39	9.50	53.89	58.87	-4.98	peak
3	0.4220	25.53	9.50	35.03	47.41	-12.38	AVG
4	0.4300	43.35	9.50	52.85	57.25	-4.40	peak
5	15.3700	42.36	11.07	53.43	60.00	-6.57	peak
6	16.7900	23.16	11.36	34.52	50.00	-15.48	AVG

Test Specification: Line



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.4100	27.33	9.50	36.83	47.65	-10.82	AVG
2	0.4300	42.72	9.50	52.22	57.25	-5.03	peak
3	0.5460	25.18	9.55	34.73	46.00	-11.27	AVG
4	0.5700	42.41	9.57	51.98	56.00	-4.02	peak
5	0.6340	23.47	9.63	33.10	46.00	-12.90	AVG
6	0.6420	41.22	9.64	50.86	56.00	-5.14	peak

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