

FCC Part 15C Measurement and Test Report

For

Amelia World Corporation dba LINSAY

1841 NE 146 Street, Miami, Florida

FCC ID: 2AAC3F7XHD

FCC Rule(s): FCC Part 15C

Product Description: Tablet PC

Tested Model: F-7XHD

Report No.: STR15088241I-1

Tested Date: 2015-08-24 to 2015-09-17

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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: Amelia World Corporation dba LINSAY
Address of applicant: 1841 NE 146 Street, Miami, Florida

Manufacturer: Amelia World Corporation dba LINSAY
Address of manufacturer: 1841 NE 146 Street, Miami, Florida

General Description of EUT	
Product Name:	Tablet PC
Trade Name:	LINSAY
Model No.:	F-7XHD
Adding Model(s):	F7HD4CORE
Rated Voltage:	Li-ion battery DC 3.7V/2800mAh
Power Adapter Model:	XHY050200UUCH I/P: AC 100-240V; O/P: DC 5V
<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 F-7XHD, 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 for 11b/g/n(HT20) 2422-2452MHz For 11n(HT40)
RF Output Power:	9.49dBm (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 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	2.54dBi
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Amelia World Corporation dba LINSAY 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 C63.4-2014, 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 V03r03 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
TM4	802.11n-HT40	2422MHz, 2437MHz, 2452MHz

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
USB Cable	0.8	Unshielded	Without Ferrite

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

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
Notebook	ASUS	X42J	/

1.6 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 V03r03, 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 $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- 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

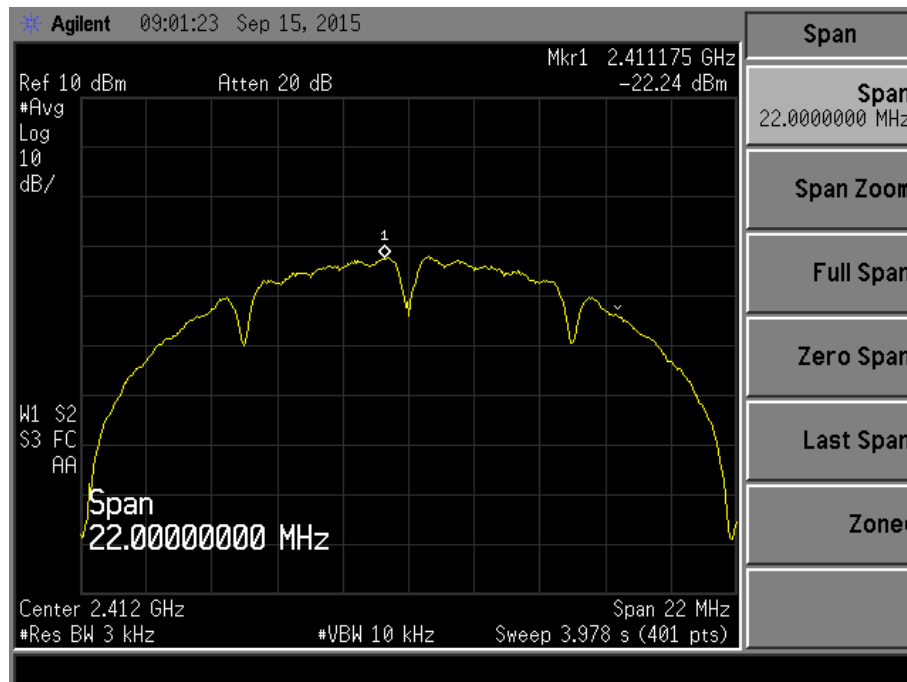
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

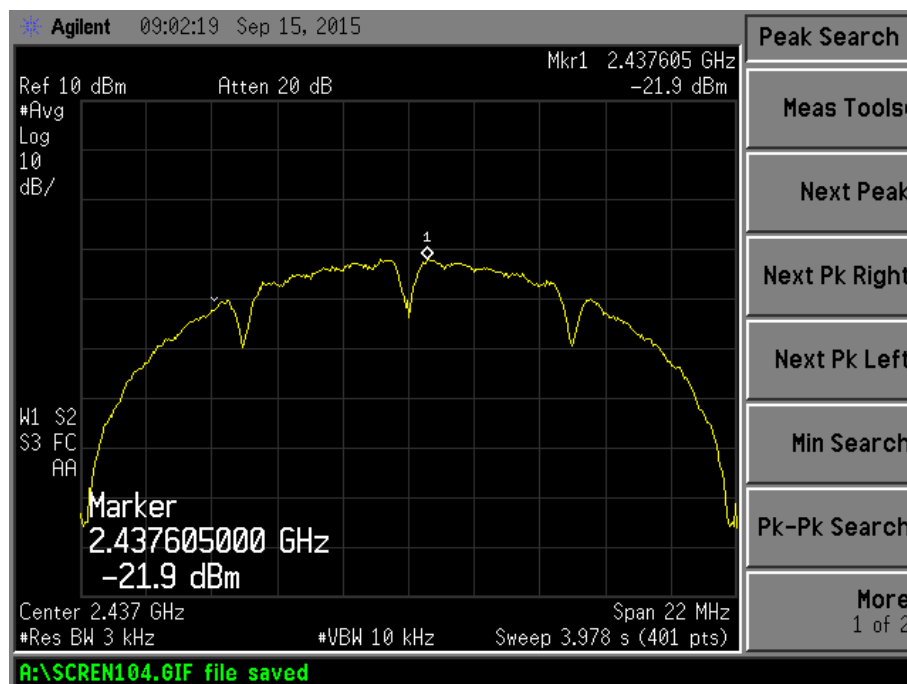
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-22.24	8
	2437	-21.90	8
	2462	-21.93	8
802.11g	2412	-25.68	8
	2437	-26.22	8
	2462	-25.86	8
802.11n HT20	2412	-25.73	8
	2437	-26.27	8
	2462	-25.75	8
802.11n HT40	2422	-30.27	8
	2437	-30.42	8
	2452	-29.91	8

Please refer to the following test plots:

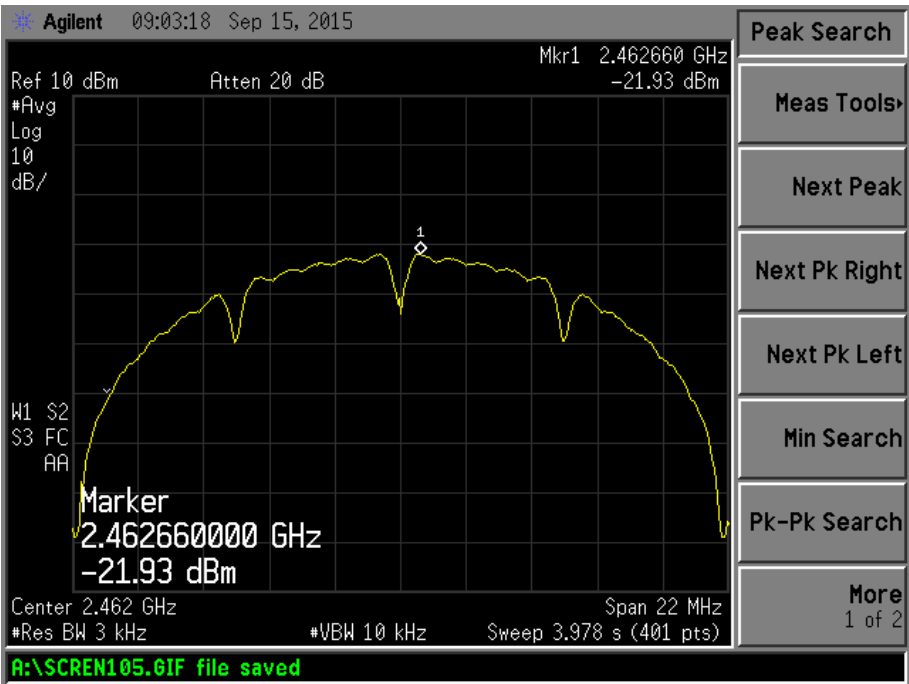
802.11b-Low Channel



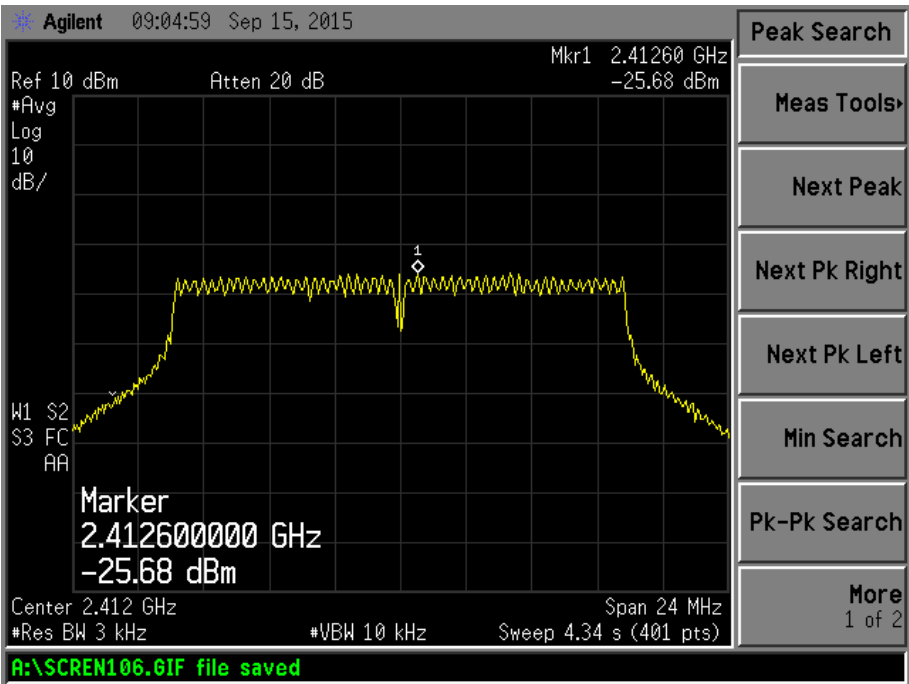
802.11b-Middle Channel



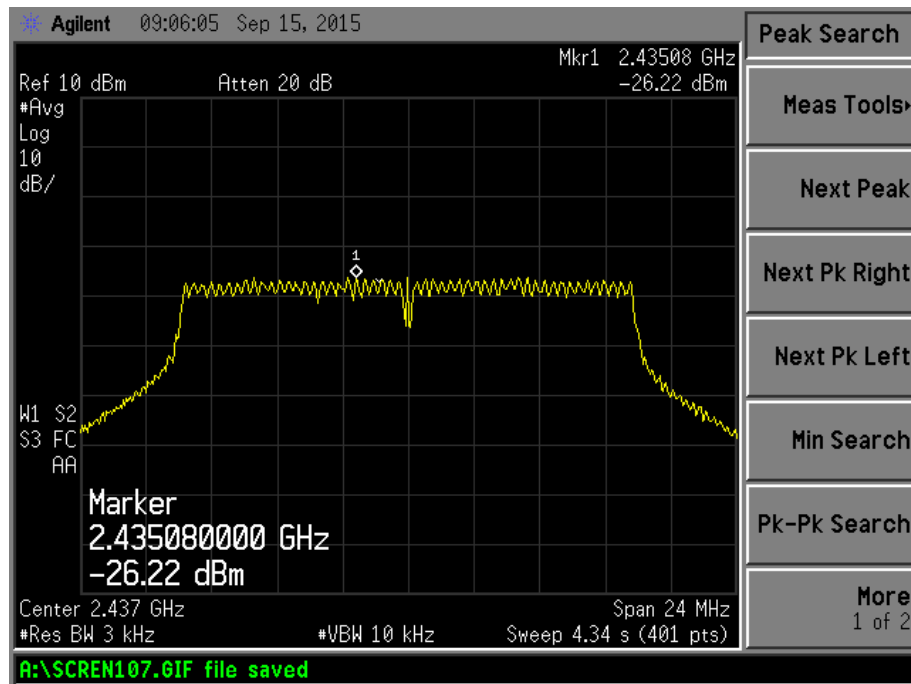
802.11b-High Channel



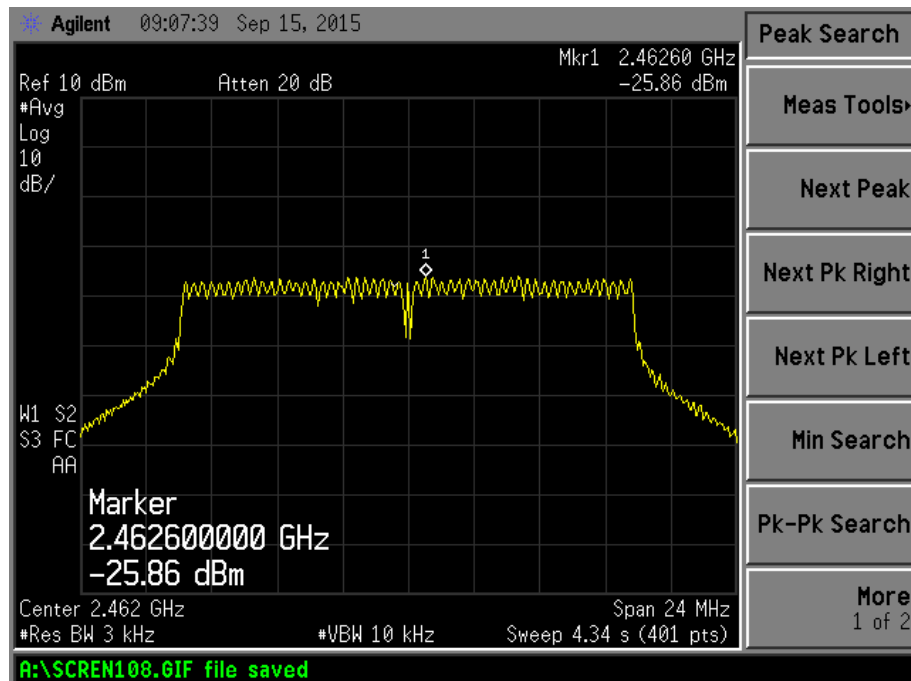
802.11g-Low Channel



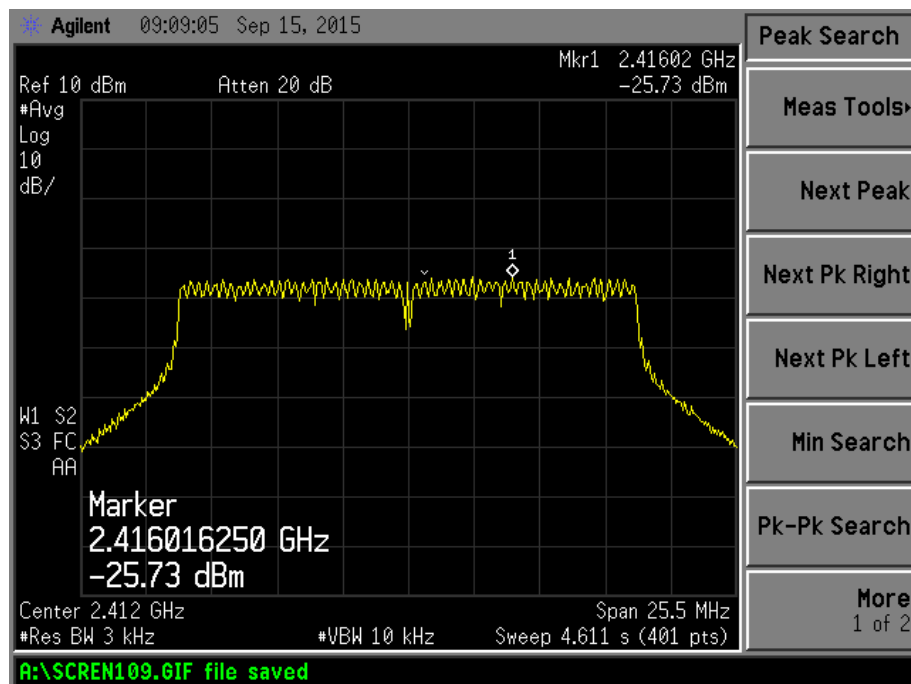
802.11g-Middle Channel



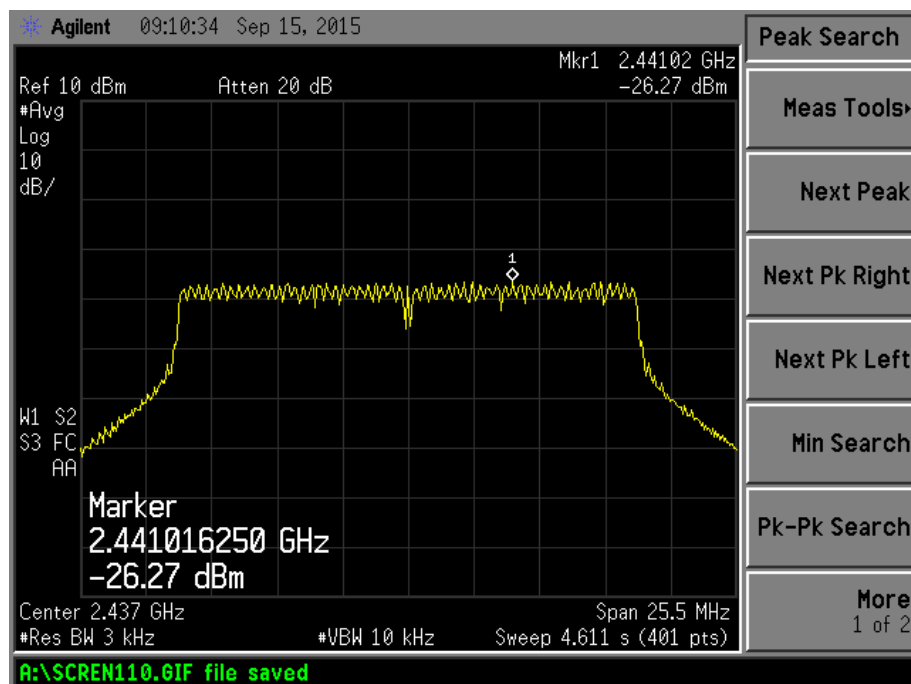
802.11g-High Channel



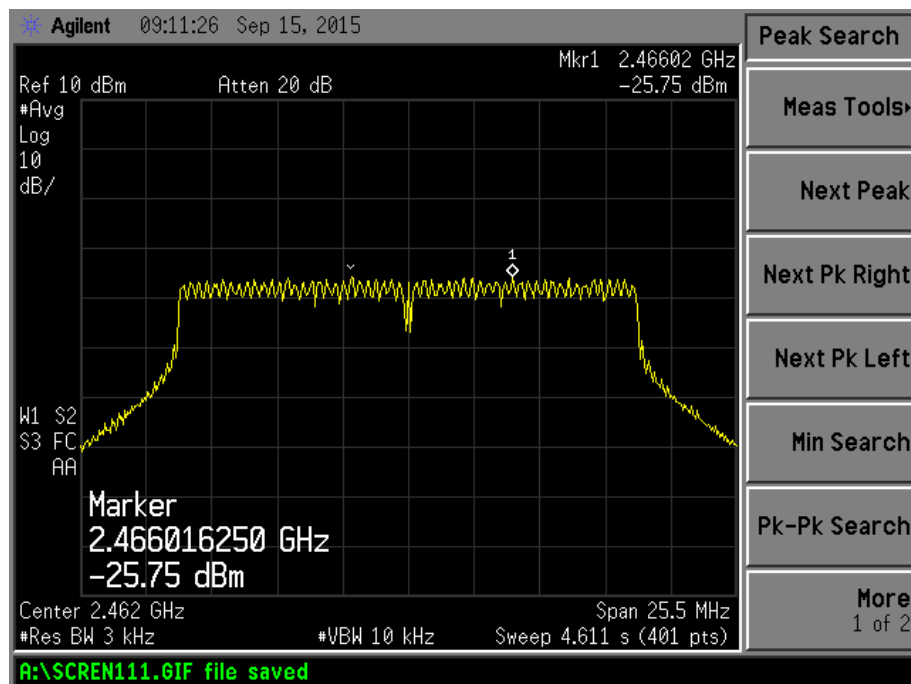
802.11n-HT20-Low Channel



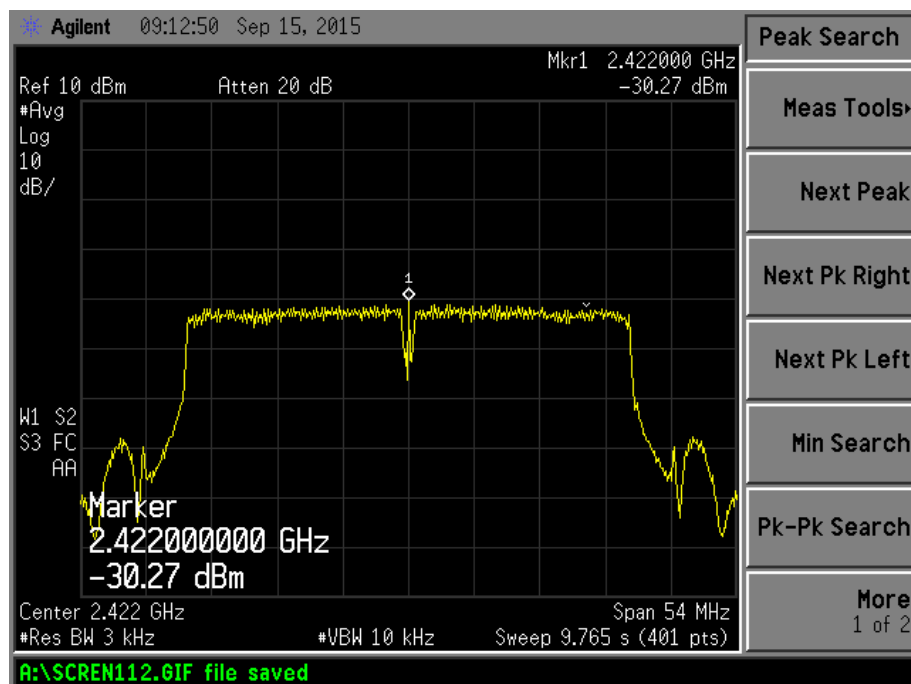
802.11n-HT20-Middle Channel



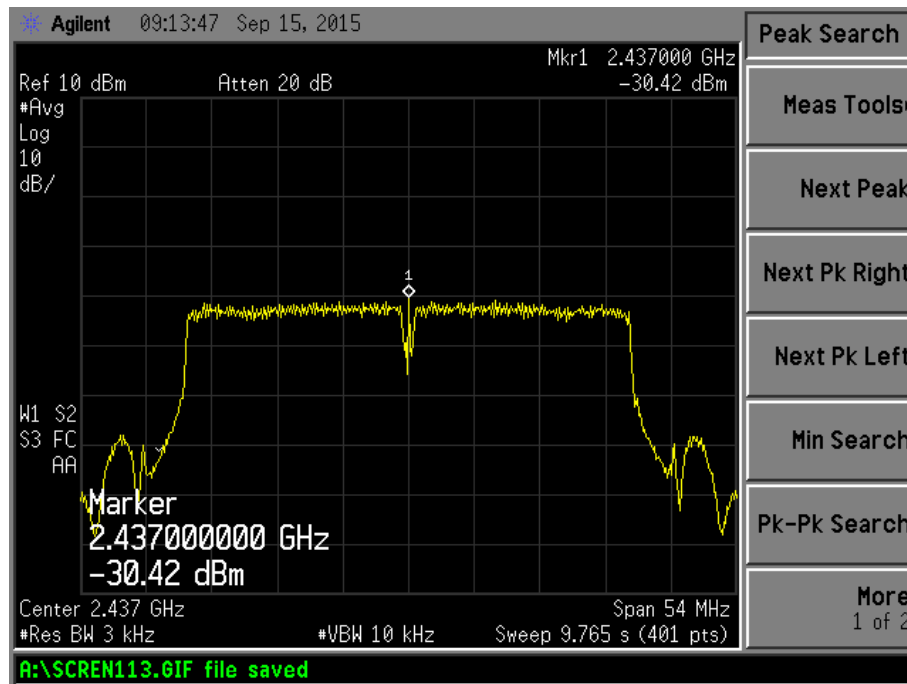
802.11n-HT20-High Channel



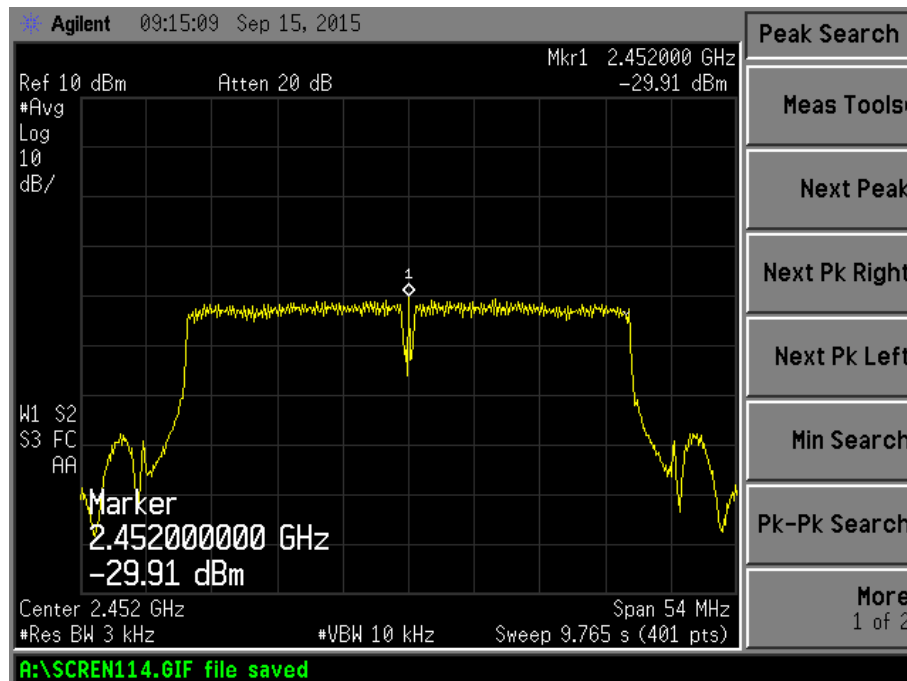
802.11n-HT40-Low Channel



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

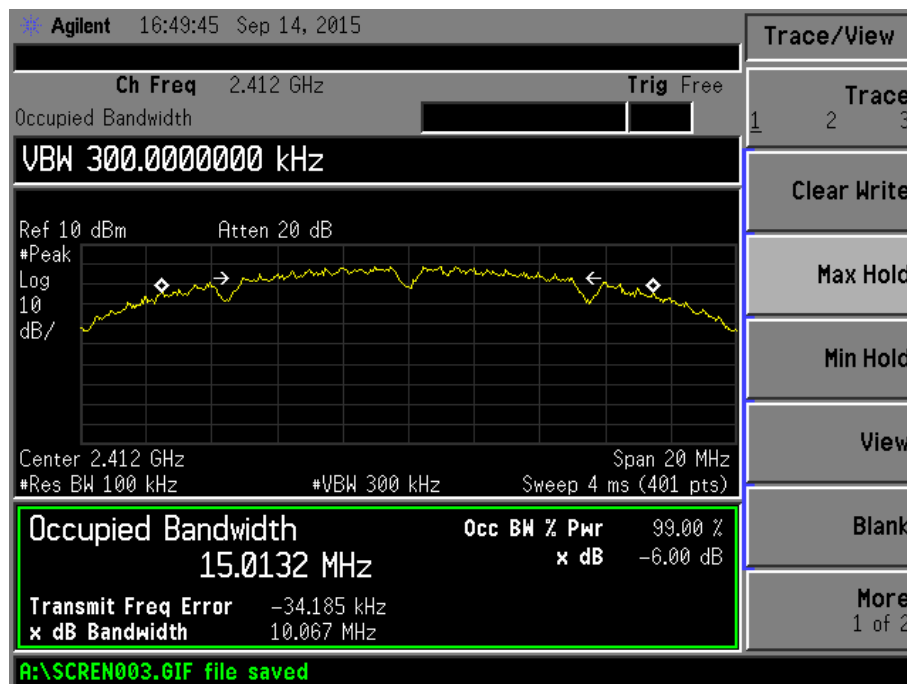
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

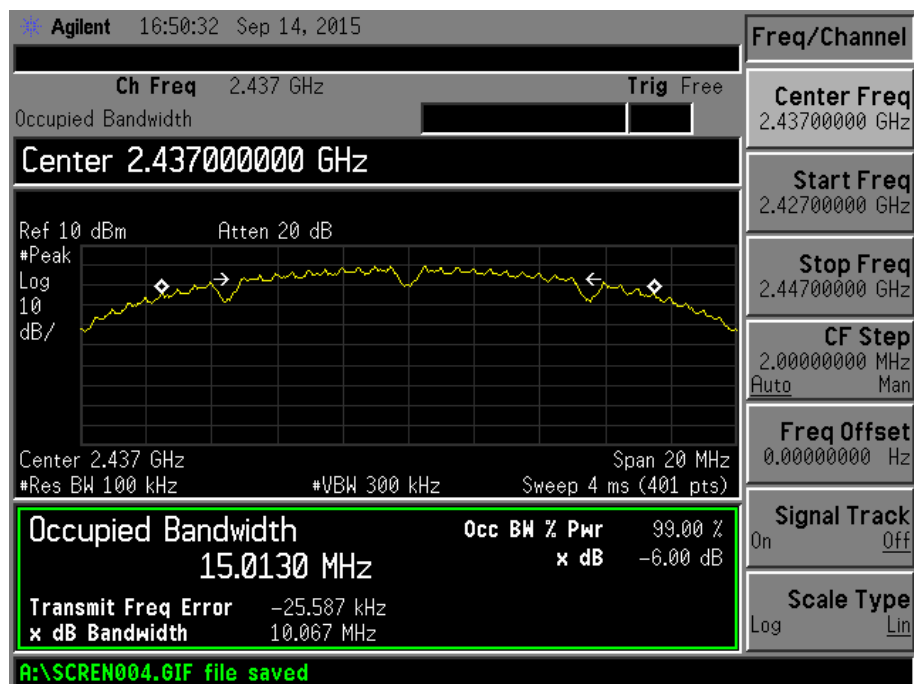
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
802.11b	2412	10067	15013.2	≥ 500
	2437	10067	15013.0	≥ 500
	2462	10055	15070.0	≥ 500
802.11g	2412	16503	16453.2	≥ 500
	2437	16596	16479.9	≥ 500
	2462	16489	16399.1	≥ 500
802.11n-HT20	2412	17835	17679.0	≥ 500
	2437	17794	17645.7	≥ 500
	2462	17754	17604.8	≥ 500
802.11n-HT40	2422	36444	36023.9	≥ 500
	2437	36469	36012.0	≥ 500
	2452	36375	35961.0	≥ 500

Please refer to the following test plots:

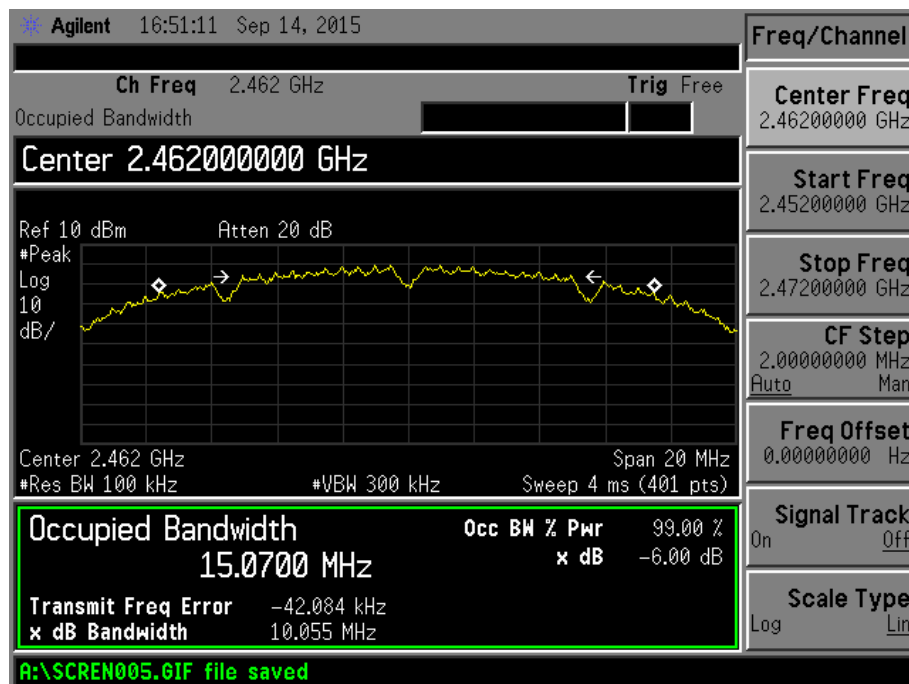
802.11b-Low Channel



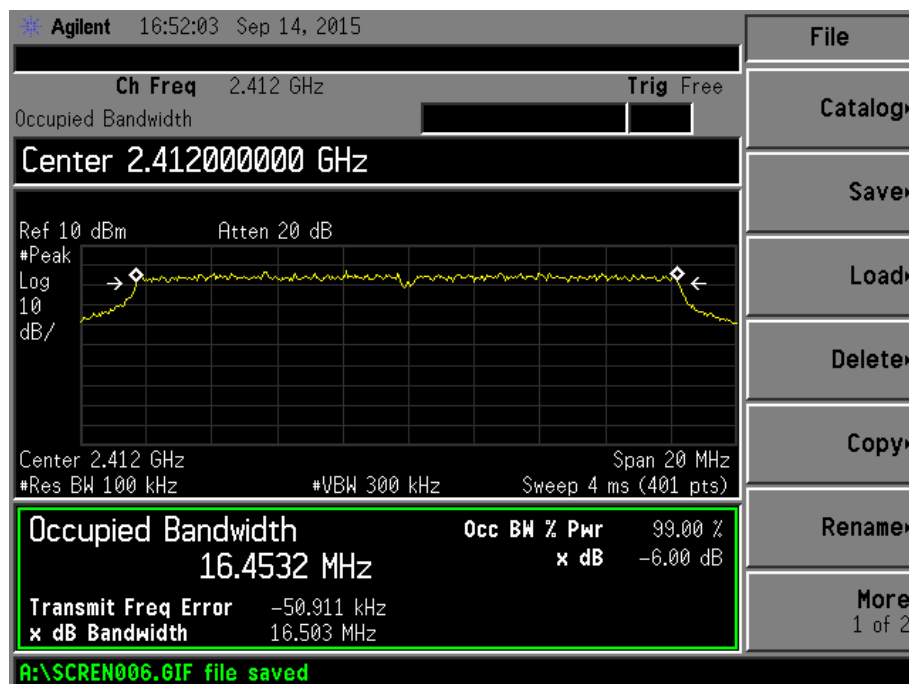
802.11b-Middle Channel



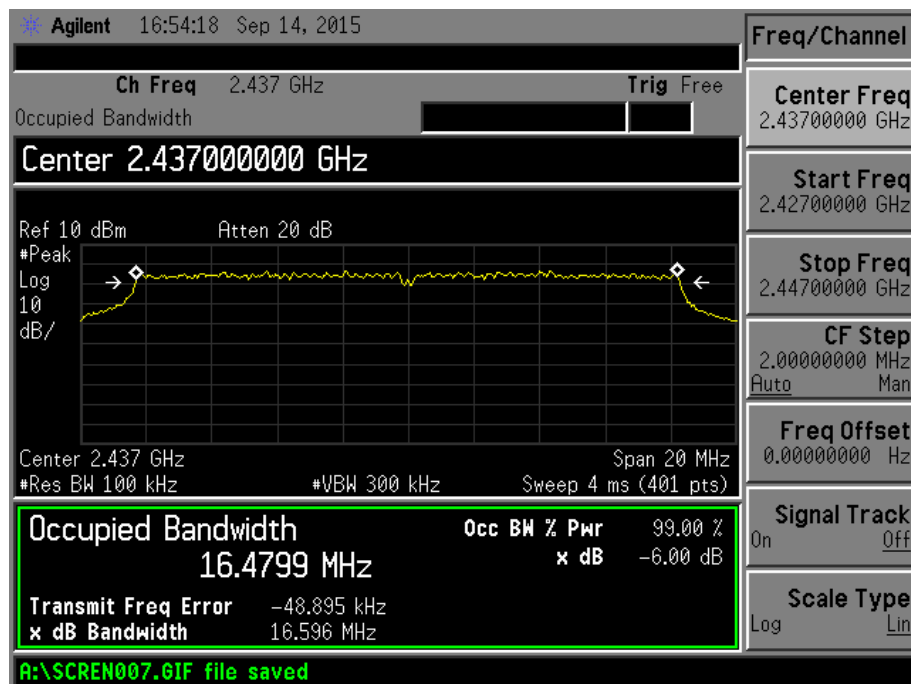
802.11b-High Channel



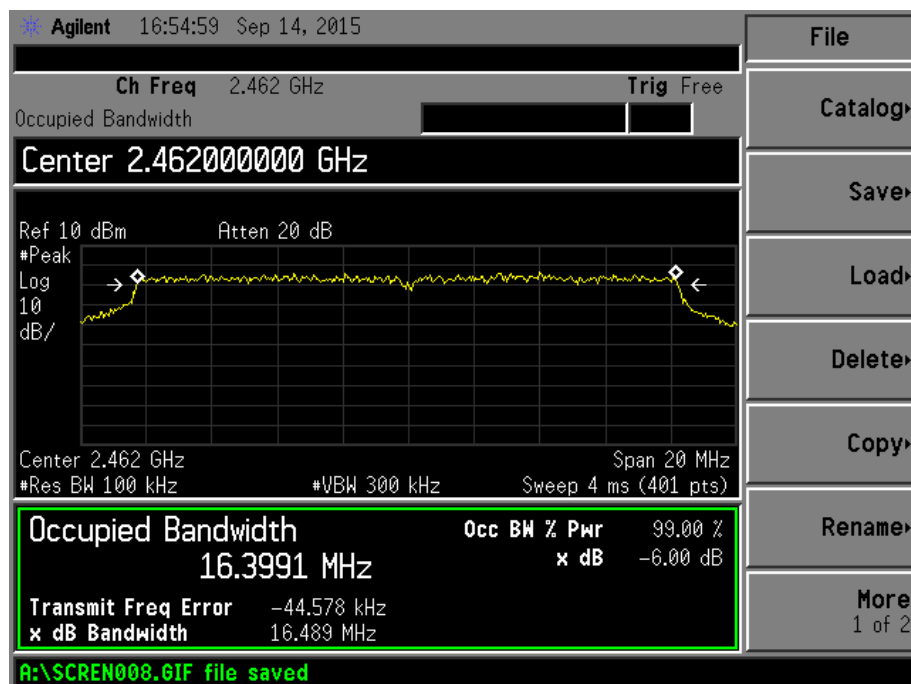
802.11g-Low Channel



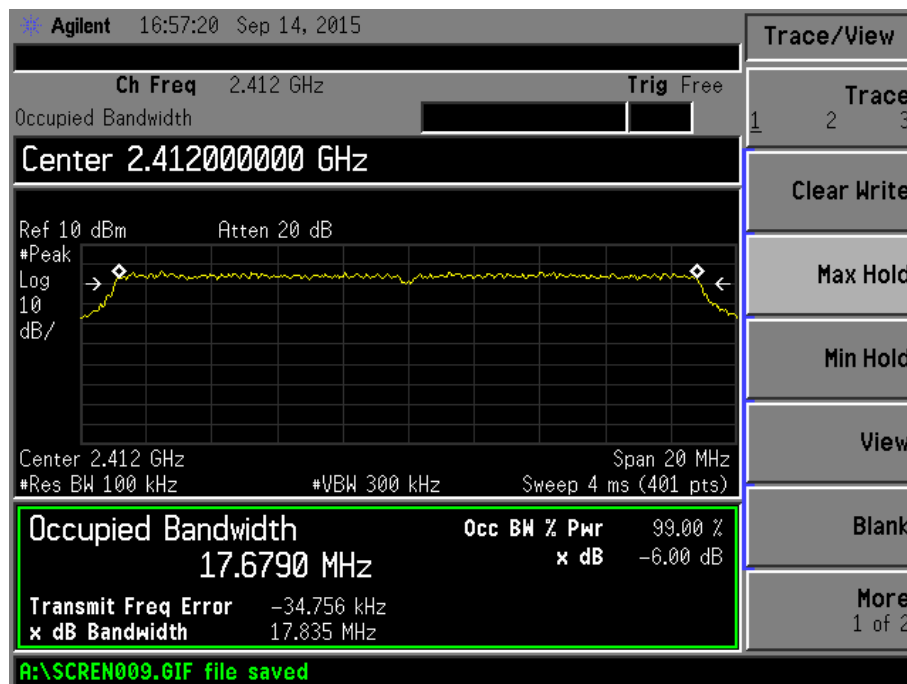
802.11g-Middle Channel



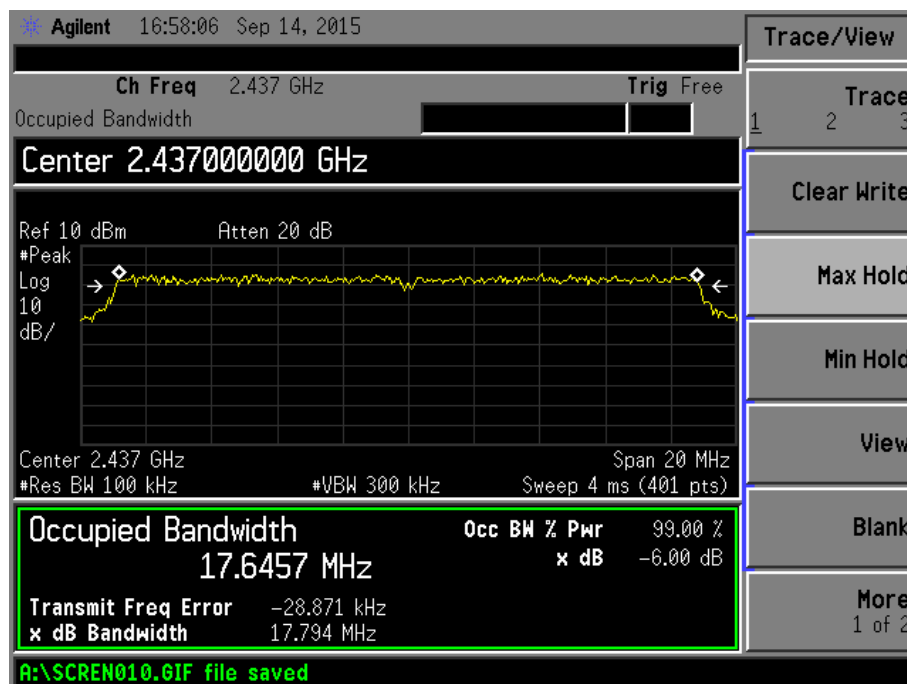
802.11g-High Channel



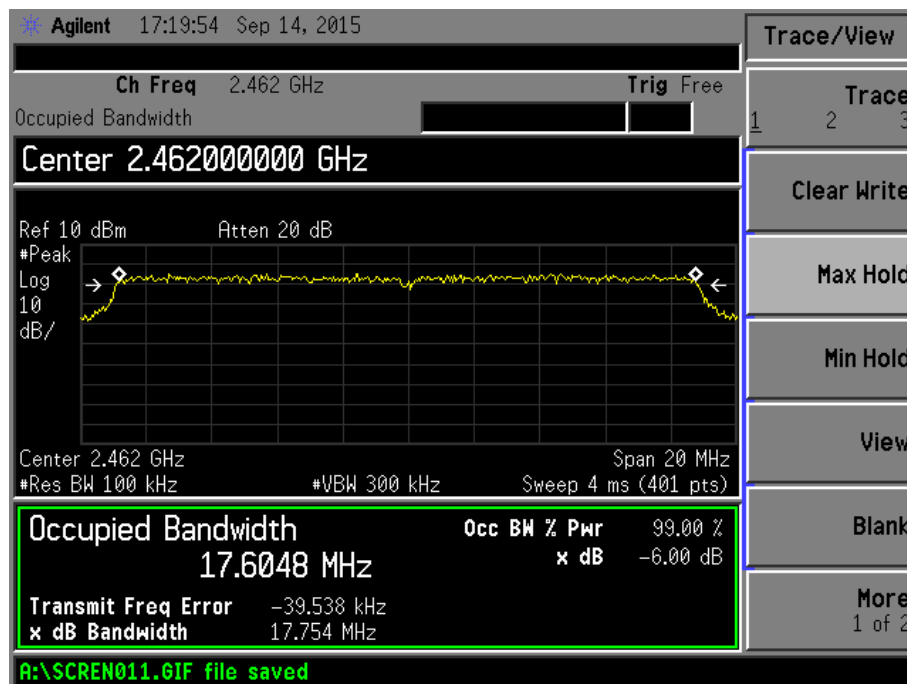
802.11n-HT20-Low Channel



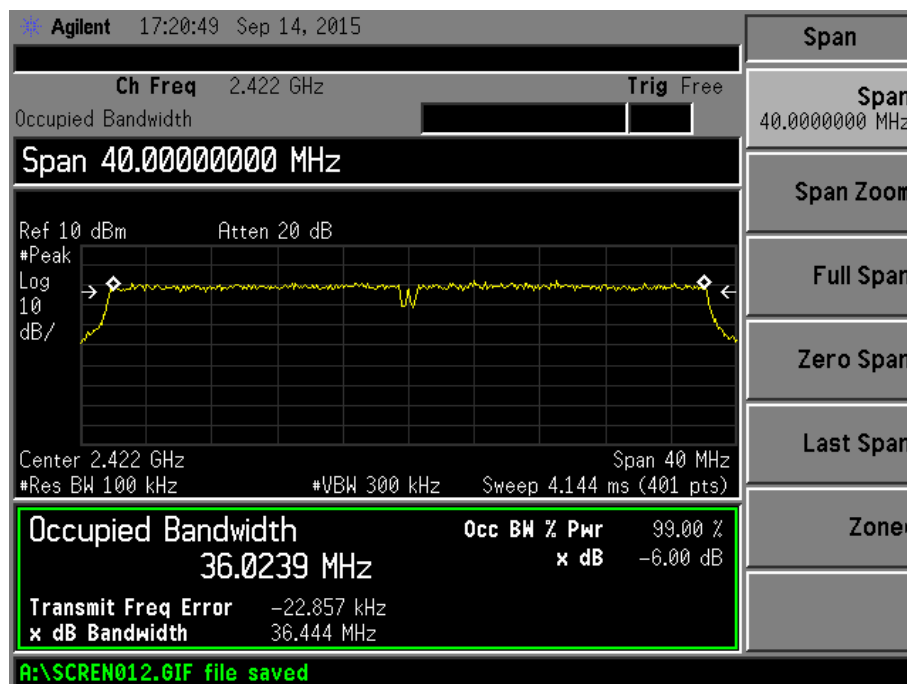
802.11n-HT20-Middle Channel



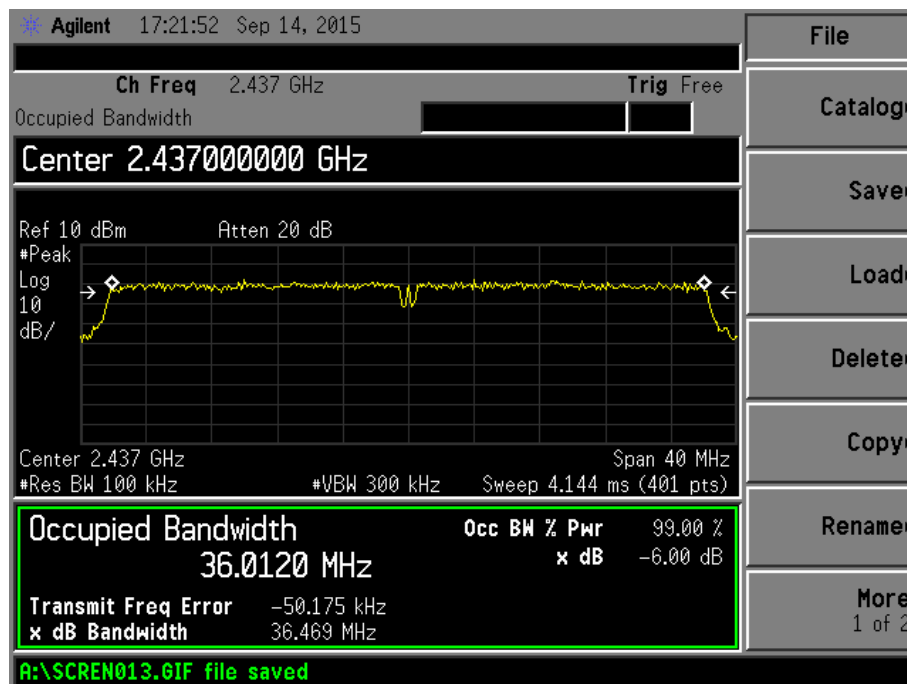
802.11n-HT20-High Channel



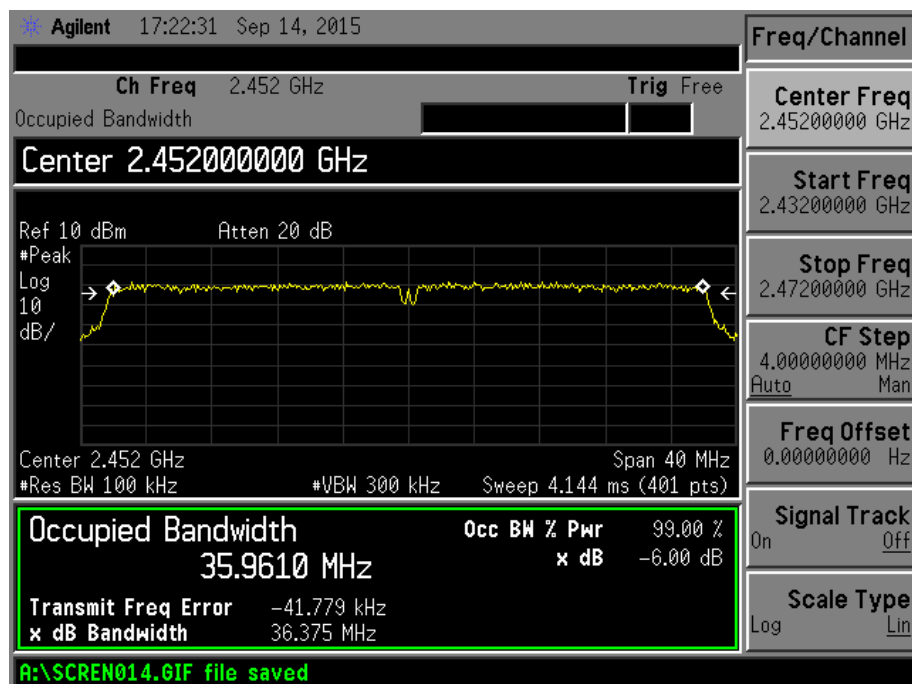
802.11n-HT40-Low Channel



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 section 15.247(b)-power output of the KDB-558074 D01 V03r03, 9.2.2.2 (channel integration method) 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

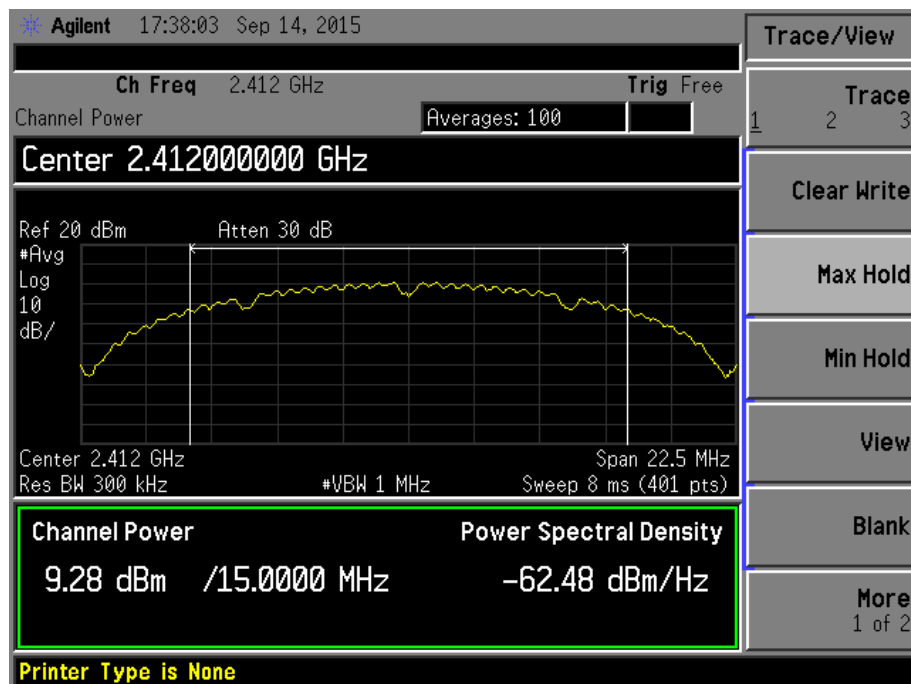
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

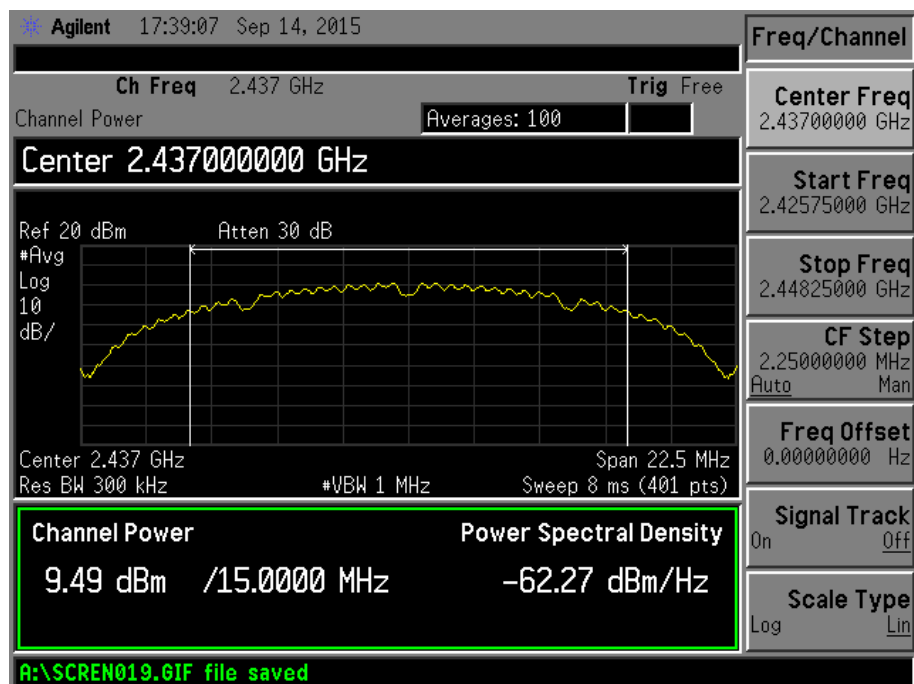
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b _ 11Mbps	2412	9.28	8.47	1000
	2437	9.49	8.89	1000
	2462	9.48	8.87	1000
802.11g_54Mbps	2412	8.54	7.15	1000
	2437	8.66	7.35	1000
	2462	8.33	6.81	1000
802.11n HT20_MCS7	2412	8.48	7.05	1000
	2437	8.37	6.87	1000
	2462	8.61	7.26	1000
802.11n HT40_MCS7	2422	7.50	5.62	1000
	2437	7.42	5.52	1000
	2452	7.56	5.70	1000

Please refer to the following test plots:

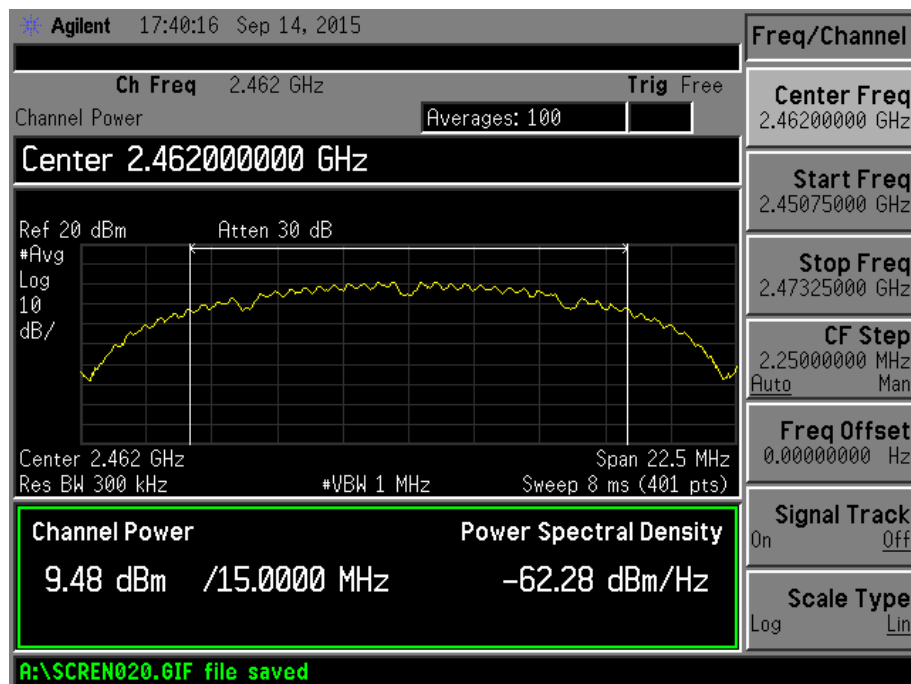
802.11b-11Mbps-Low Channel



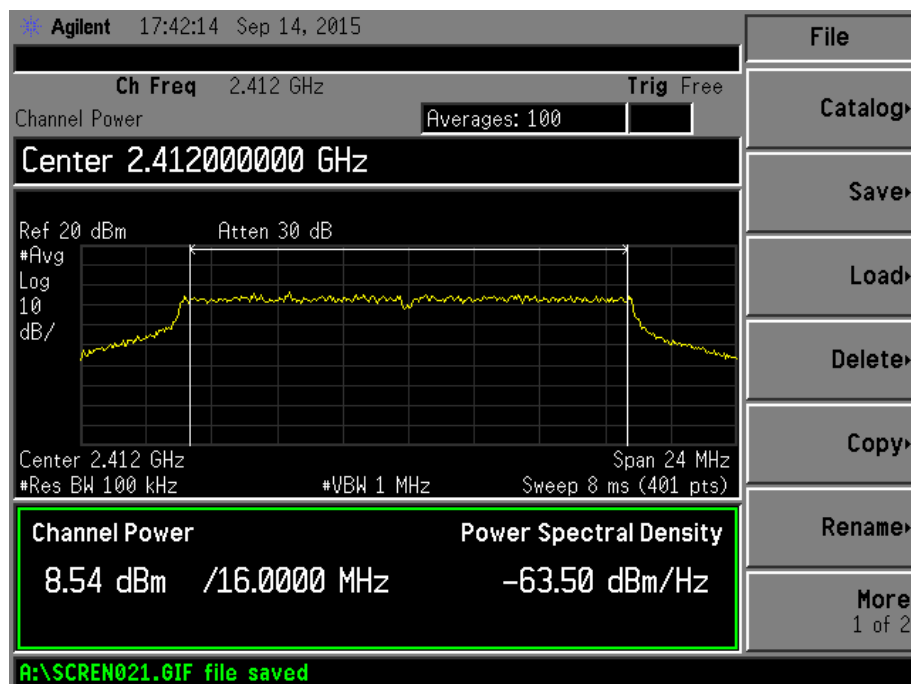
802.11b -11Mbps-Middle Channel



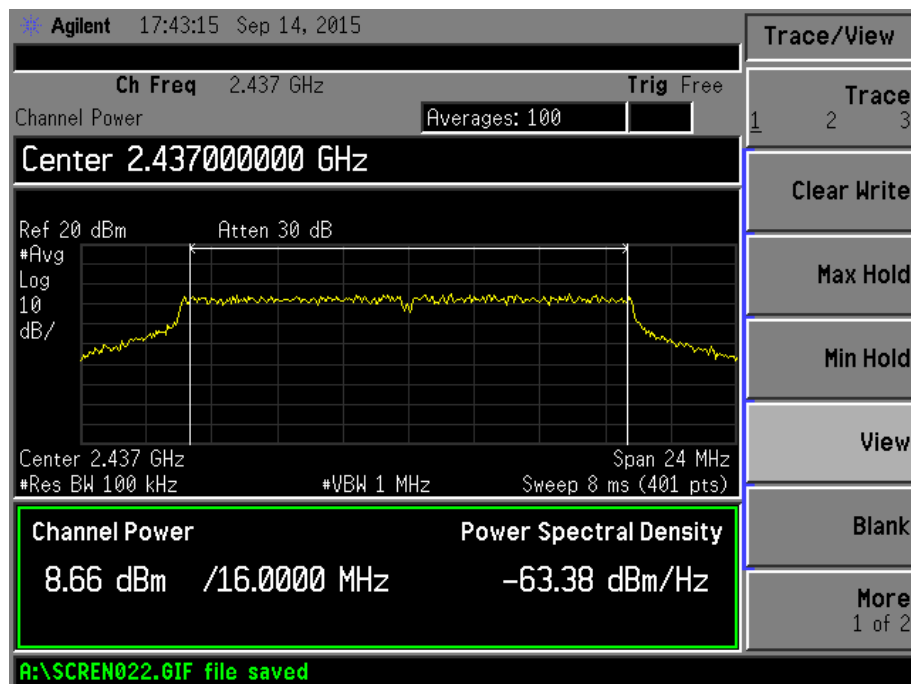
802.11b -11Mbps-High Channel



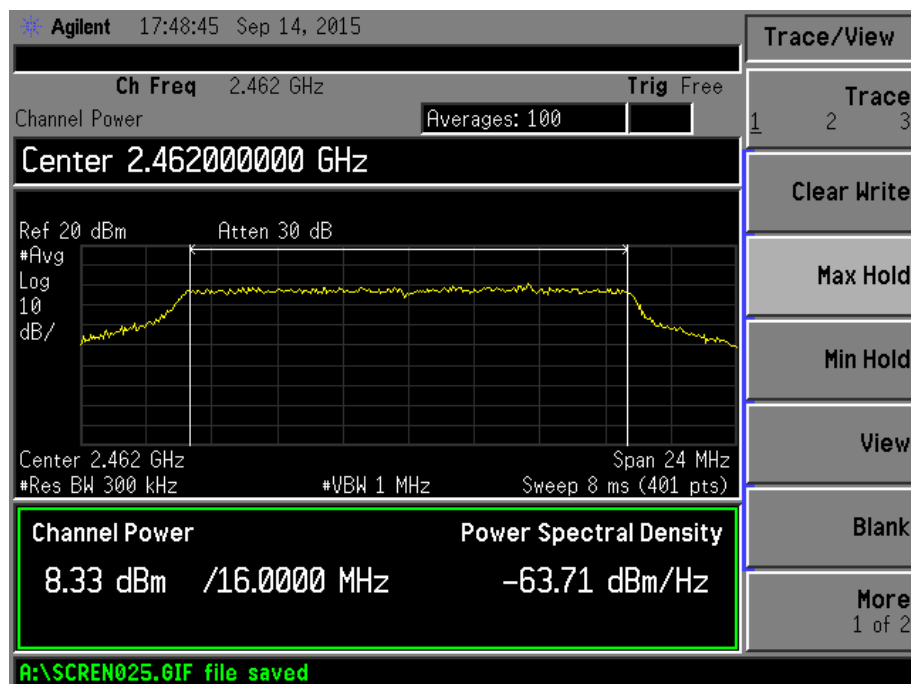
802.11g -54Mbps-Low Channel



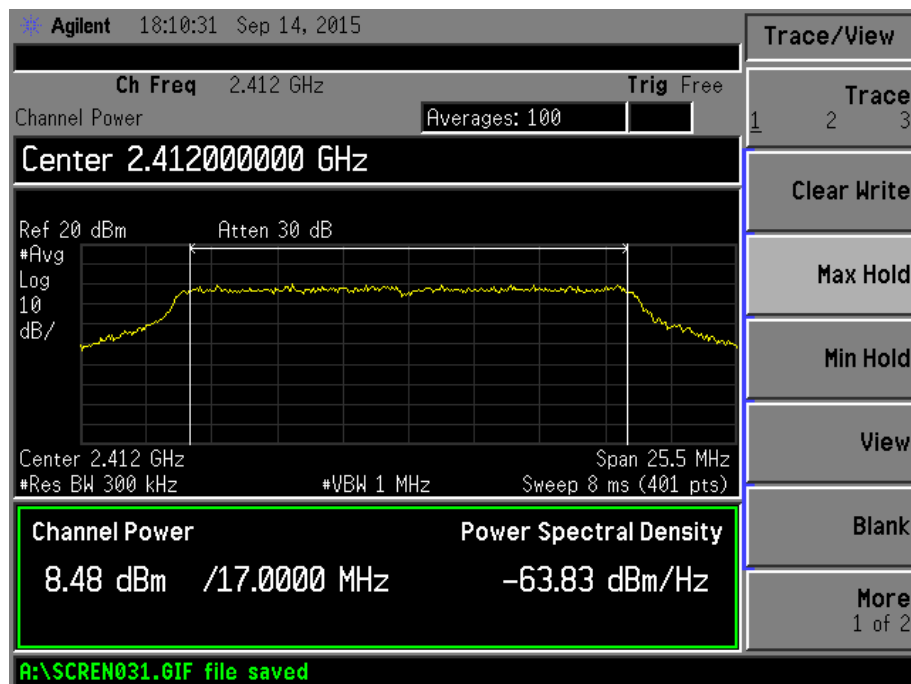
802.11g -54Mbps-Middle Channel



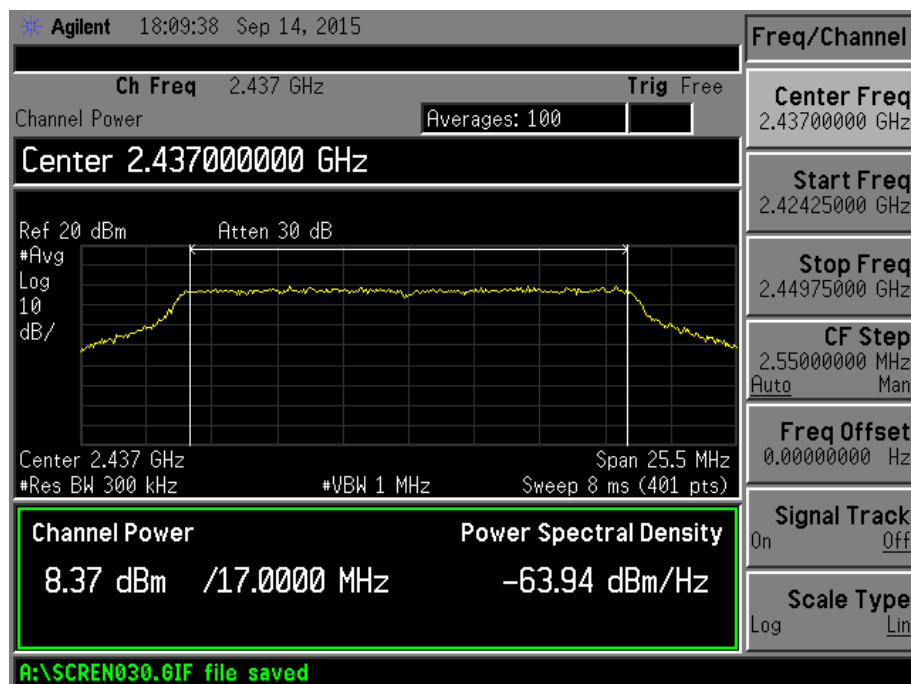
802.11b -54Mbps-High Channel



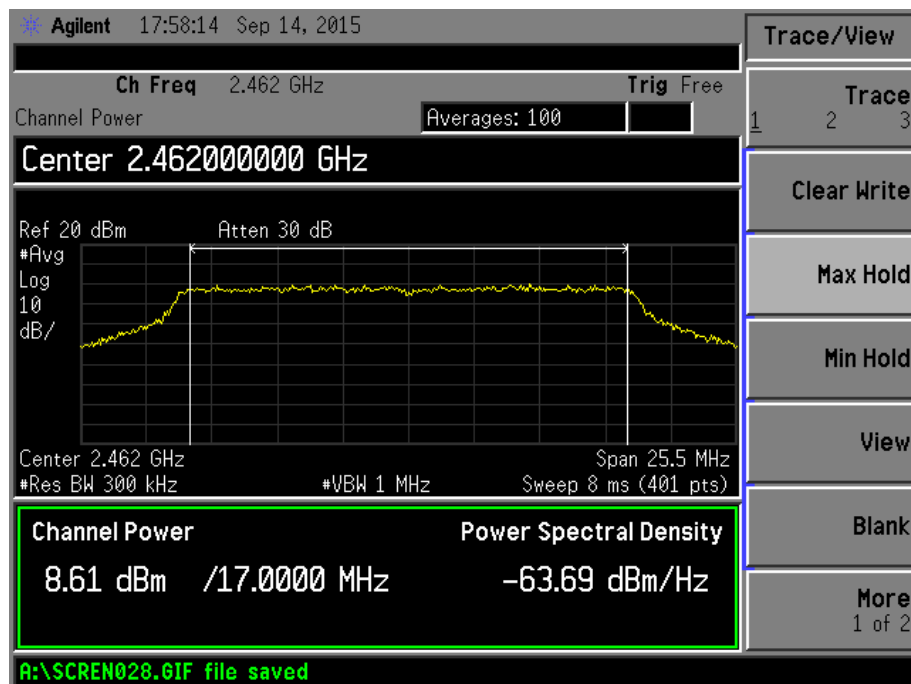
802.11n-HT20-MCS7-Low Channel



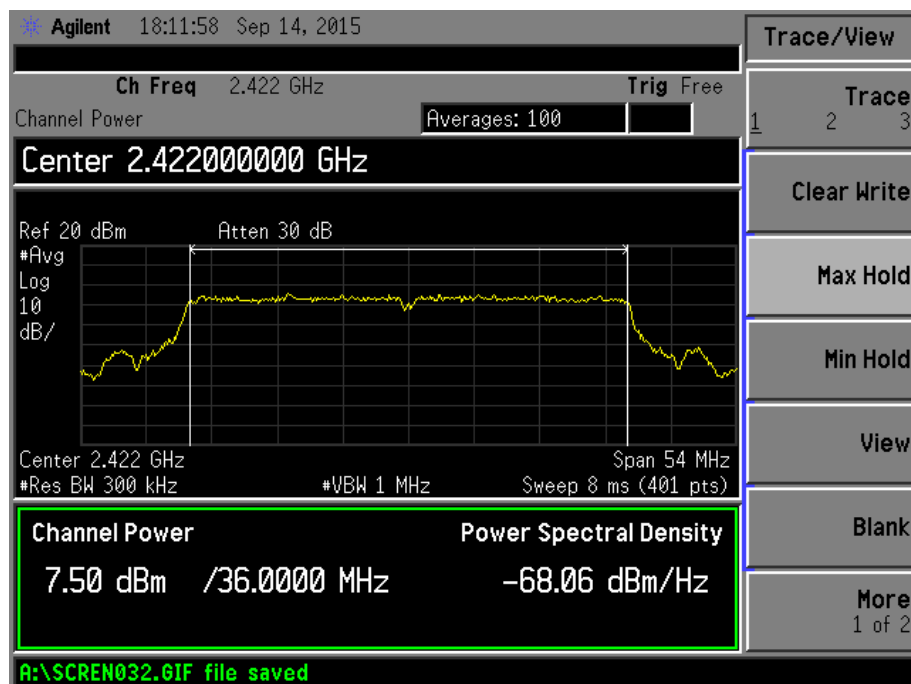
802.11n-HT20-MCS7-Middle Channel



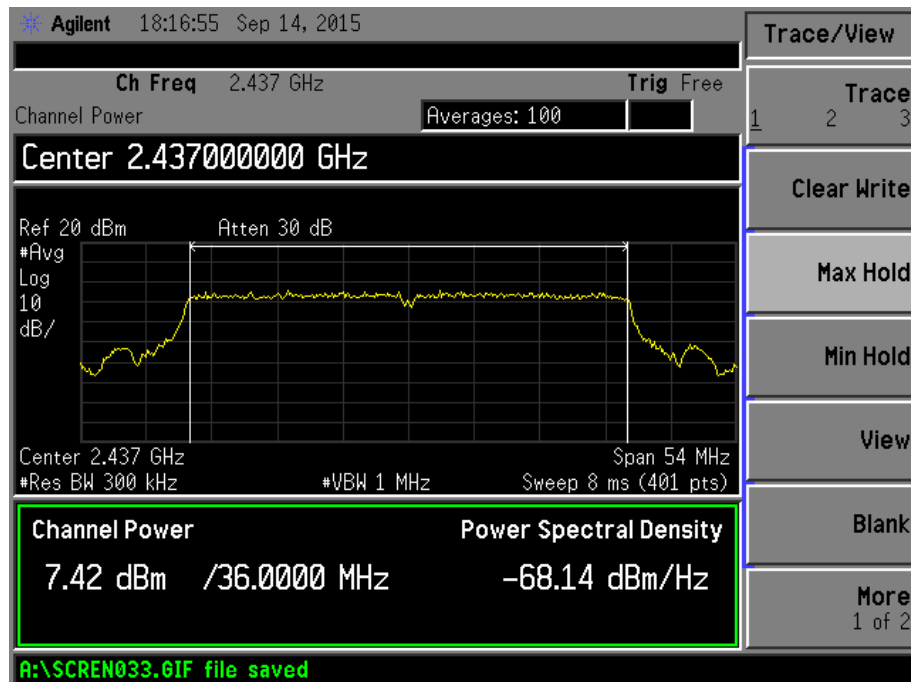
802.11n-HT20-MCS7-High Channel



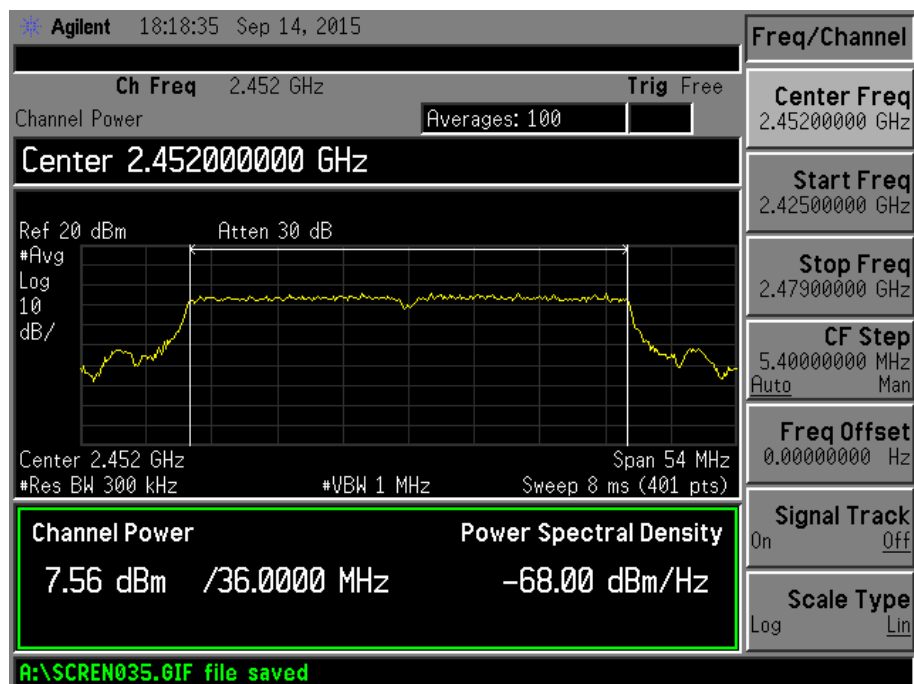
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 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).

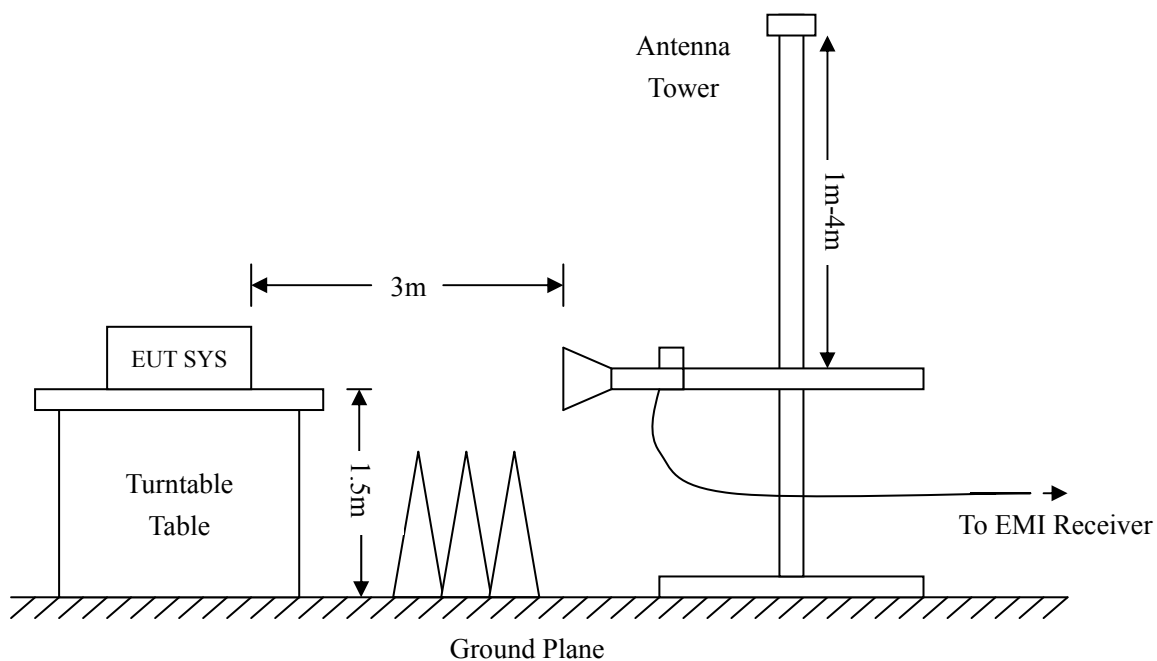
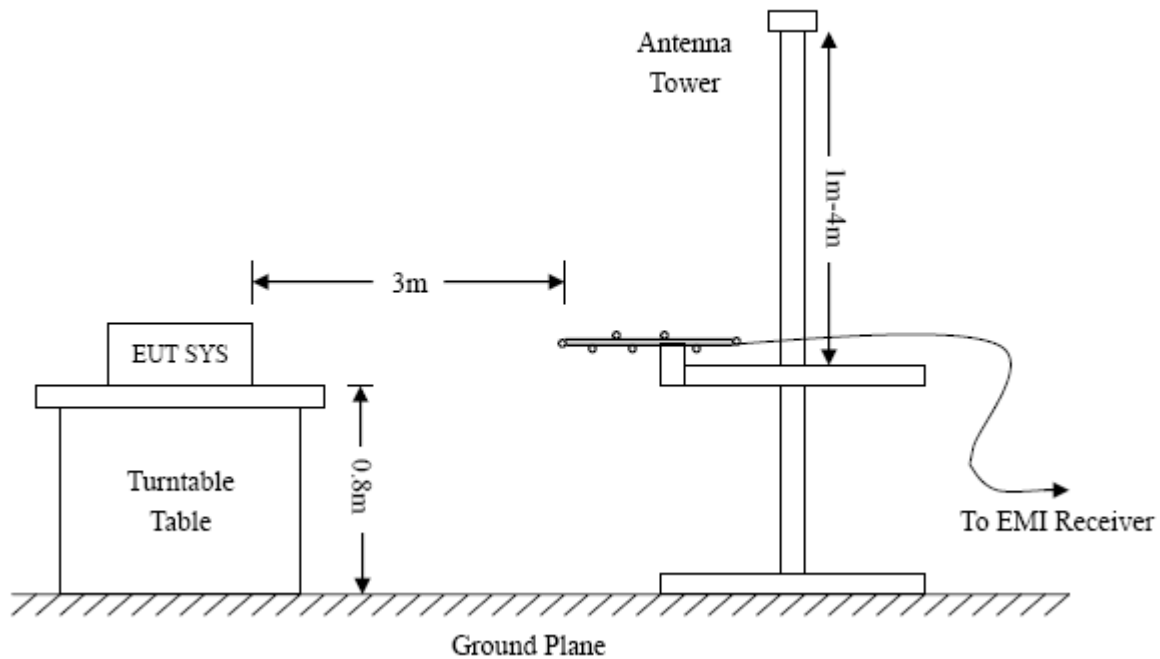
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.3 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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

8.4 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 -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

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

8.5 Environmental Conditions

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

8.6 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)

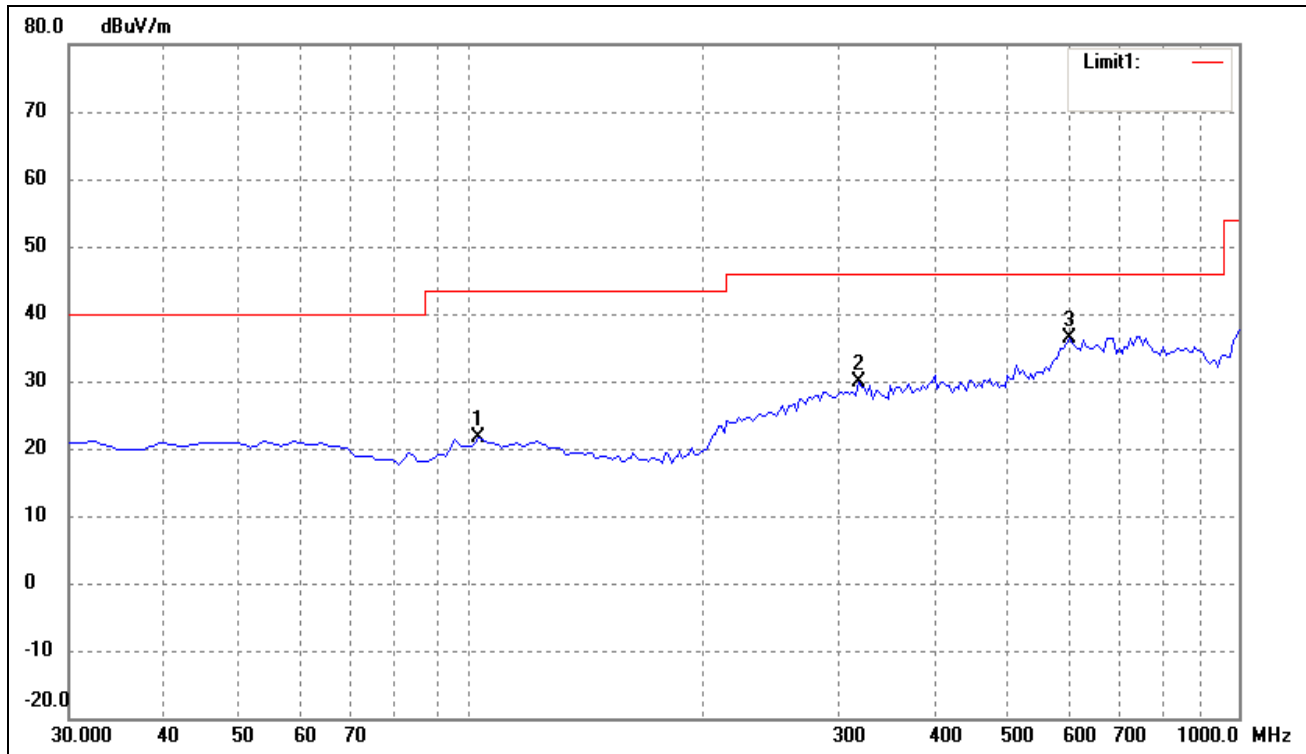
EUT: Tablet PC

Tested Model: F-7XHD

Operating Condition: 802.11b Transmitting Low Channel-2412MHz

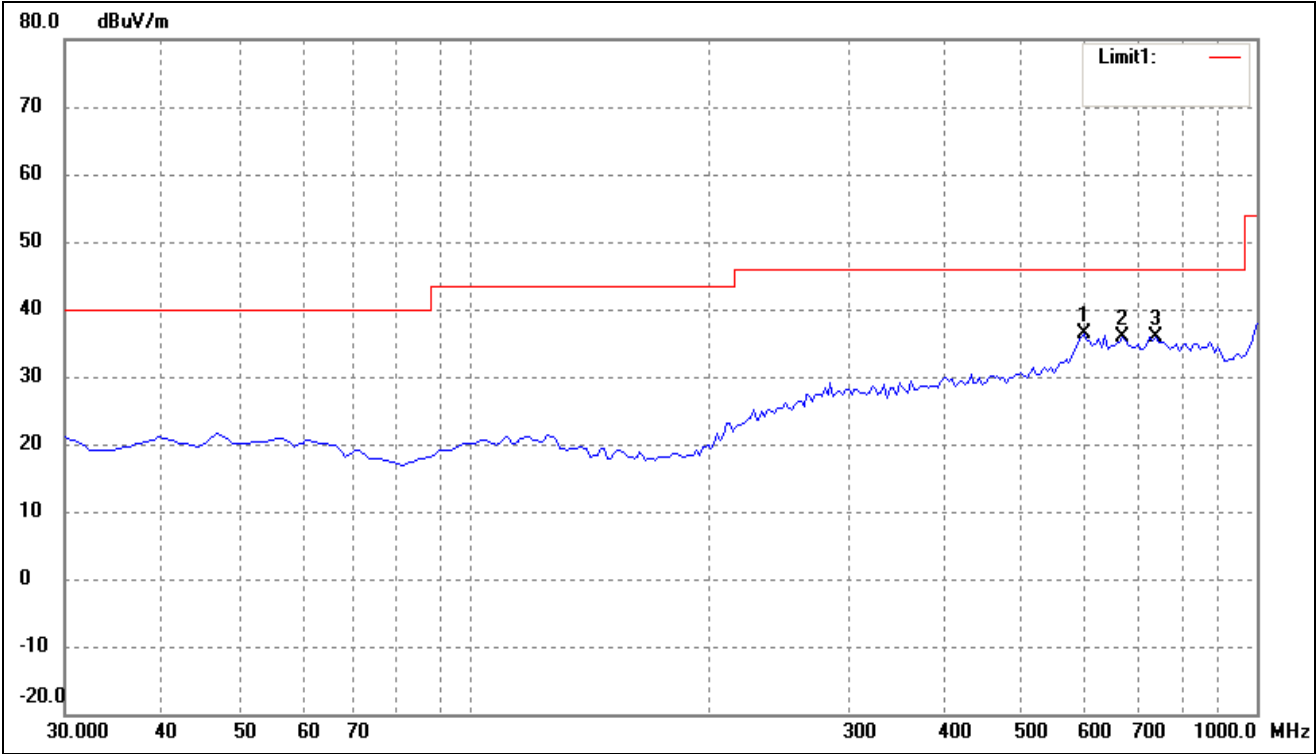
Comment: Battery DC3.7V

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	102.7500	16.41	5.12	21.53	43.50	-21.97	165	100	peak
2	321.0000	17.73	12.26	29.99	46.00	-16.01	120	100	peak
3	602.3000	17.19	19.15	36.34	46.00	-9.66	298	100	peak

Test Specification: Vertical

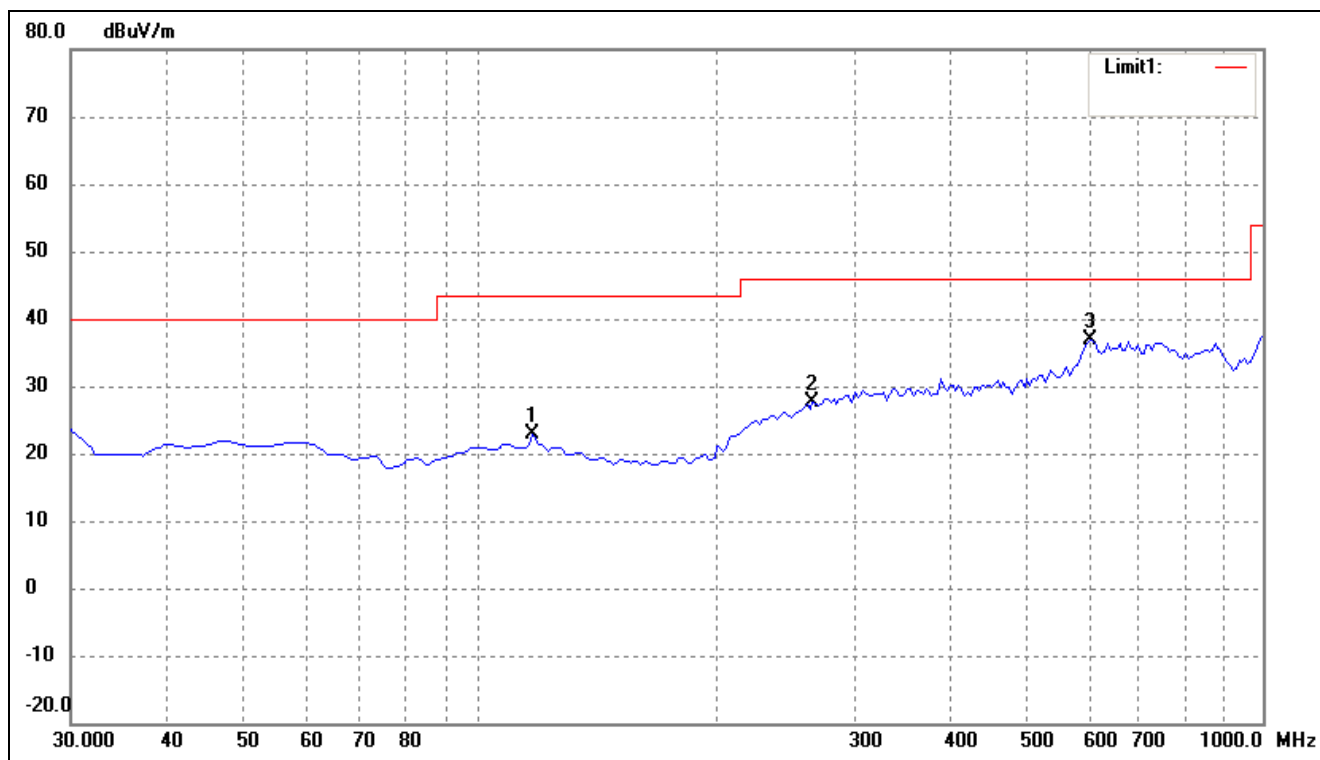


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	602.3000	17.16	19.15	36.31	46.00	-9.69	265	100	peak
2	675.0500	16.88	18.98	35.86	46.00	-10.14	15	100	peak
3	742.9500	16.42	19.42	35.84	46.00	-10.16	312	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

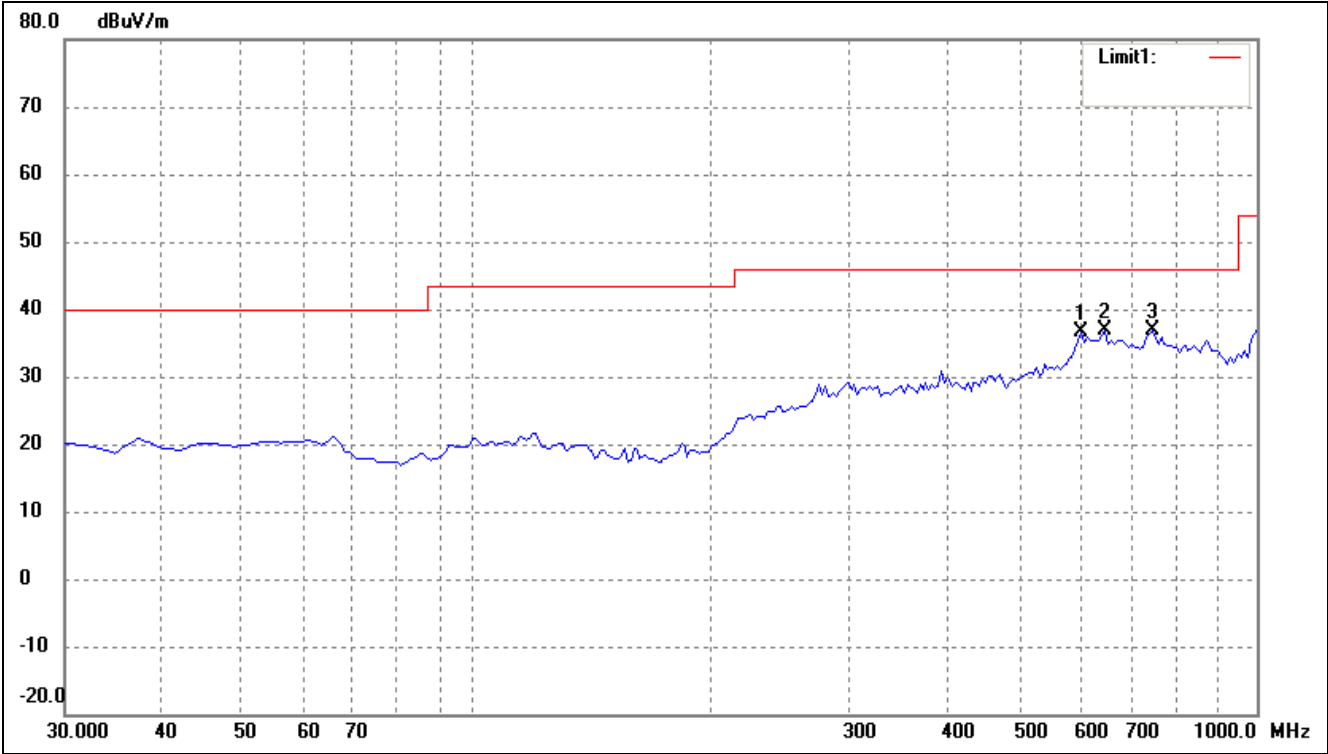
Comment: Battery DC3.7V

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	117.3000	17.76	5.03	22.79	43.50	-20.71	21	100	peak
2	267.6500	17.03	10.56	27.59	46.00	-18.41	228	100	peak
3	602.3000	17.78	19.15	36.93	46.00	-9.07	116	100	peak

Test Specification: Vertical

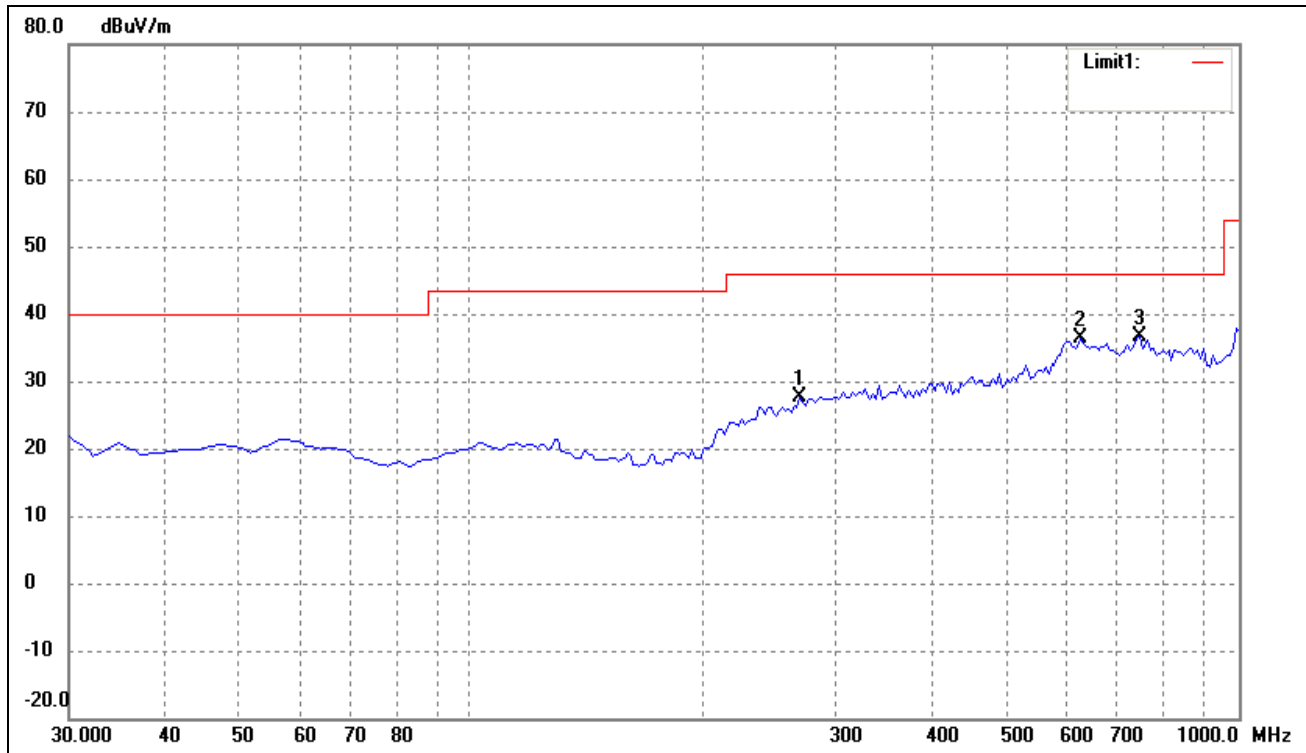


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	599.8750	17.42	19.30	36.72	46.00	-9.28	154	100	peak
2	641.1000	18.34	18.59	36.93	46.00	-9.07	201	100	peak
3	738.1000	17.44	19.44	36.88	46.00	-9.12	98	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

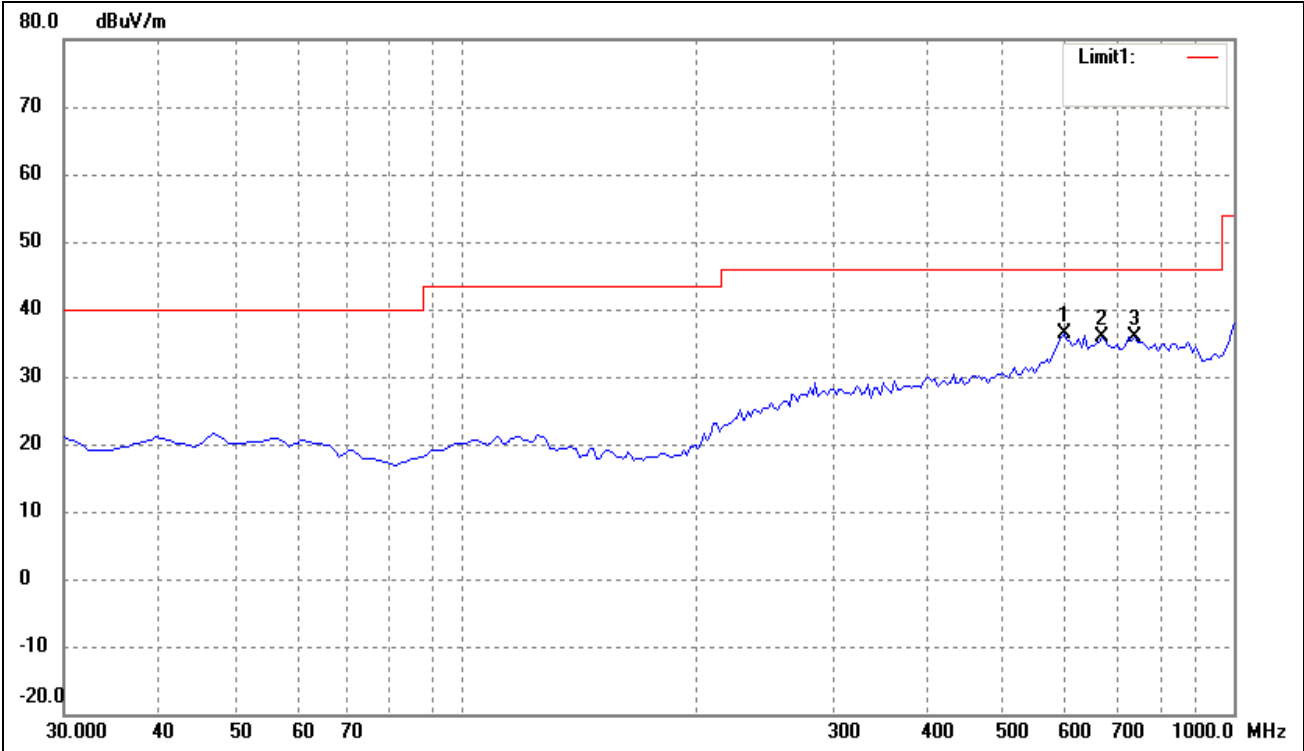
Comment: Battery DC 3.7V

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	270.0750	16.88	10.72	27.60	46.00	-18.40	21	100	peak
2	624.1250	18.41	18.06	36.47	46.00	-9.53	241	100	peak
3	745.3750	17.41	19.31	36.72	46.00	-9.28	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	602.3000	17.16	19.15	36.31	46.00	-9.69	15	100	peak
2	675.0500	16.88	18.98	35.86	46.00	-10.14	155	100	peak
3	742.9500	16.42	19.42	35.84	46.00	-10.16	201	100	peak

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

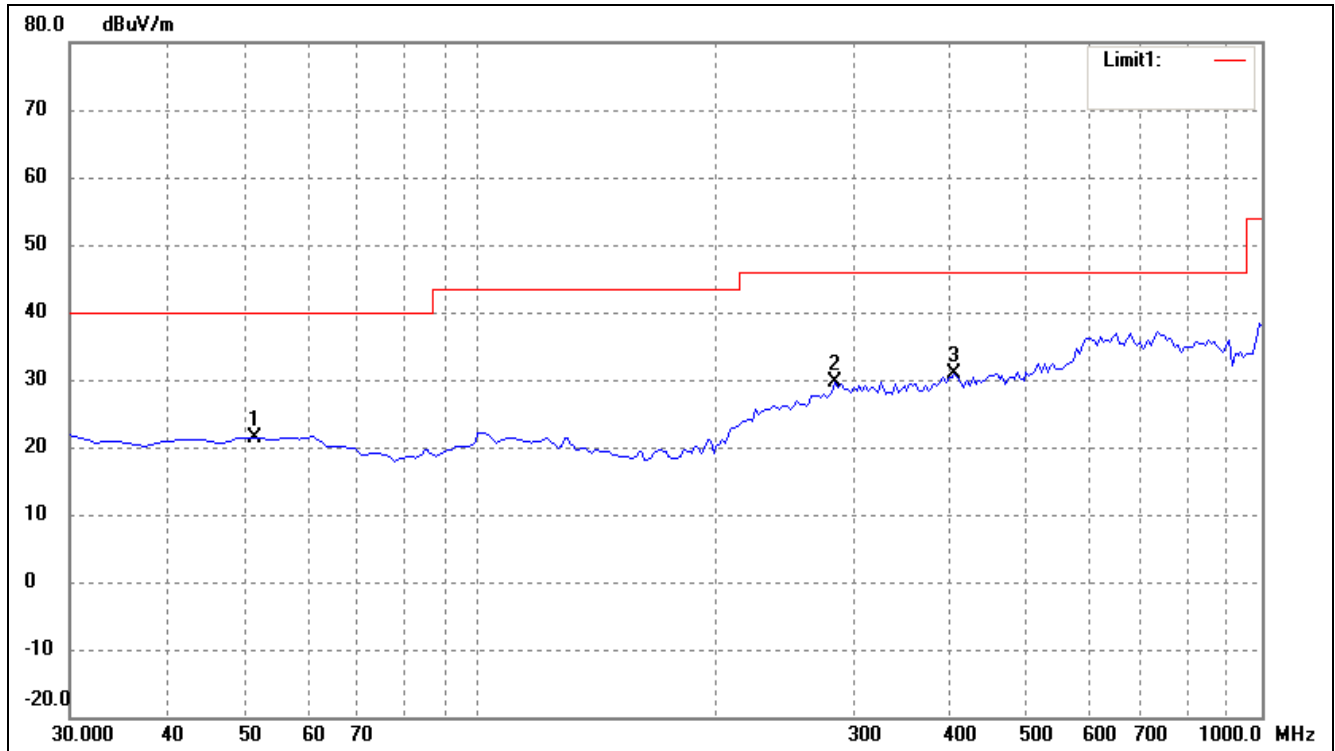
EUT: Tablet PC

Tested Model: F-7XHD

Operating Condition: 802.11g Transmitting Low Channel-2412MHz

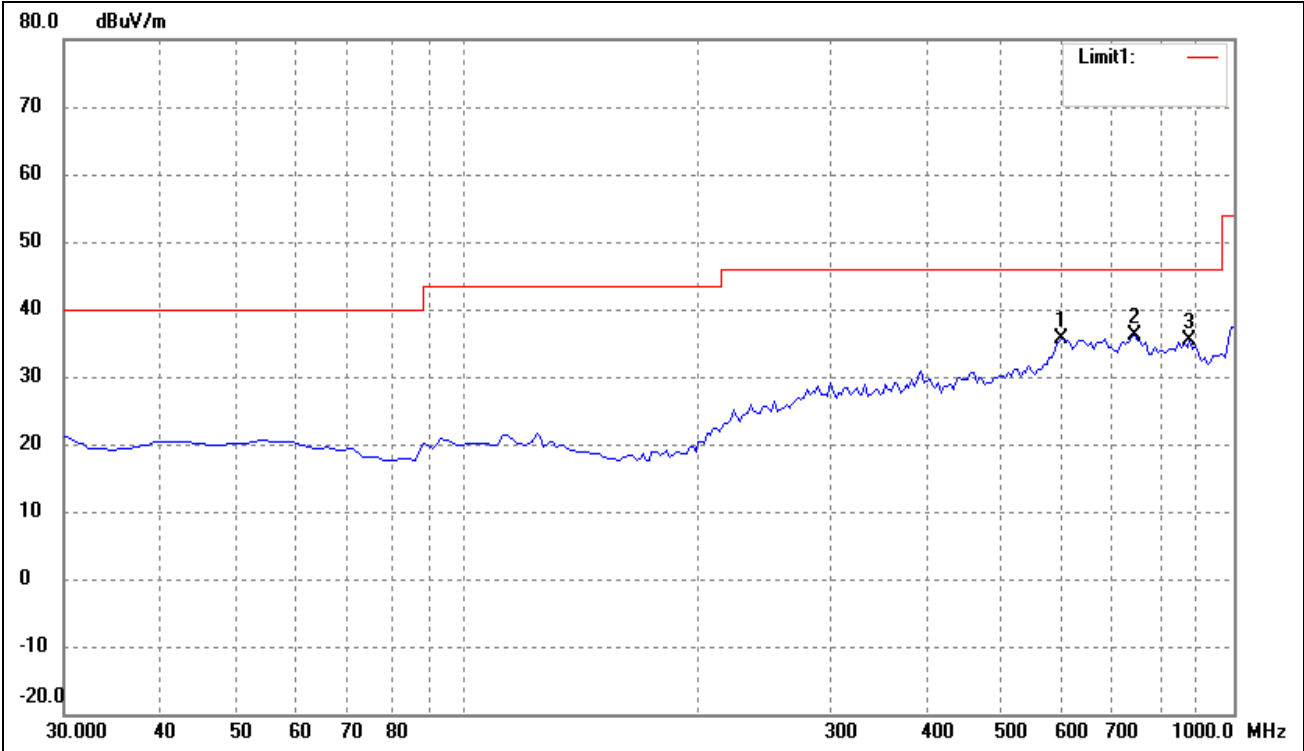
Comment: Battery DC 3.7V

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	51.8250	16.21	5.29	21.50	40.00	-18.50	245	100	peak
2	287.0500	17.84	11.68	29.52	46.00	-16.48	98	100	peak
3	408.3000	18.09	12.82	30.91	46.00	-15.09	125	100	peak

Test Specification: Vertical

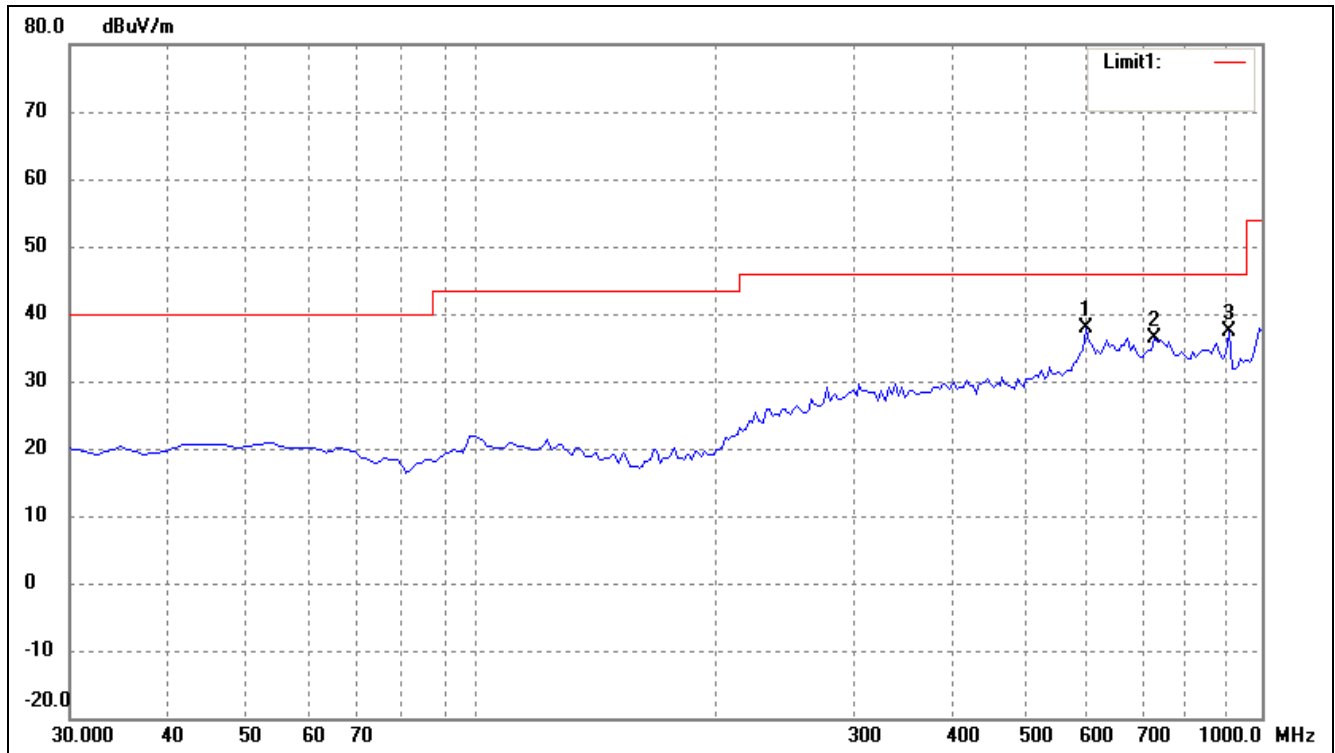


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	599.8750	16.21	19.30	35.51	46.00	-10.49	289	100	peak
2	742.9500	16.77	19.42	36.19	46.00	-9.81	124	100	peak
3	878.7500	17.67	17.79	35.46	46.00	-10.54	94	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

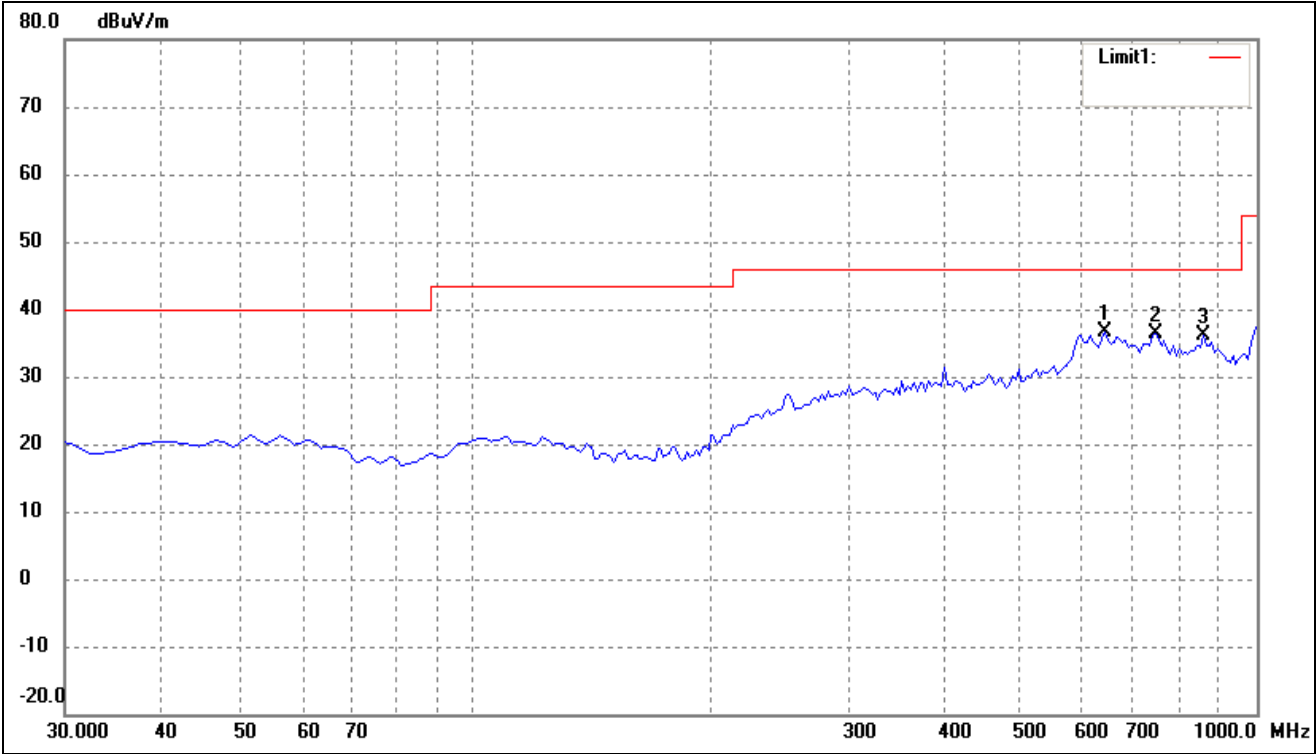
Comment: Battery DC 3.7V

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	599.8750	18.55	19.30	37.85	46.00	-8.15	167	100	peak
2	735.6750	17.04	19.29	36.33	46.00	-9.67	120	100	peak
3	910.2750	21.26	16.15	37.41	46.00	-8.59	187	100	peak

Test Specification: Vertical

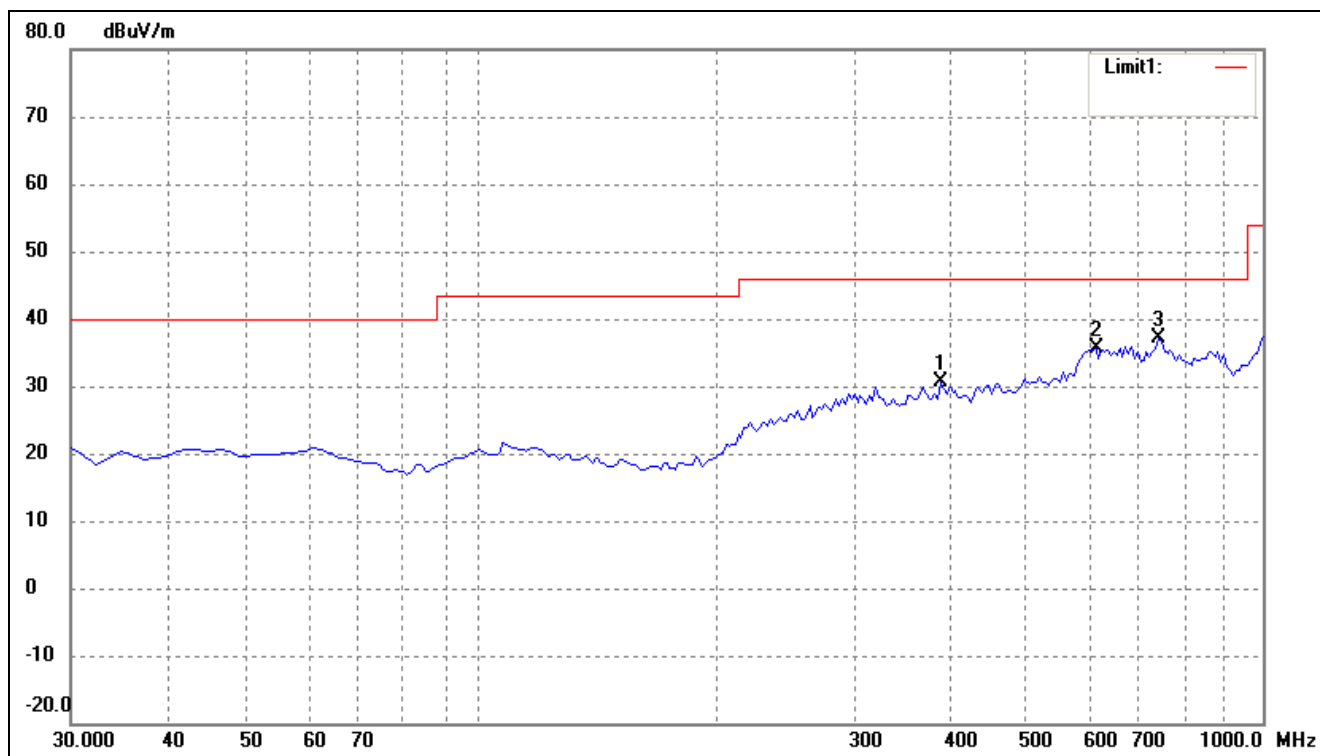


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	641.1000	18.04	18.59	36.63	46.00	-9.37	178	100	peak
2	745.3750	17.07	19.31	36.38	46.00	-9.62	268	100	peak
3	856.9250	18.76	17.33	36.09	46.00	-9.91	131	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

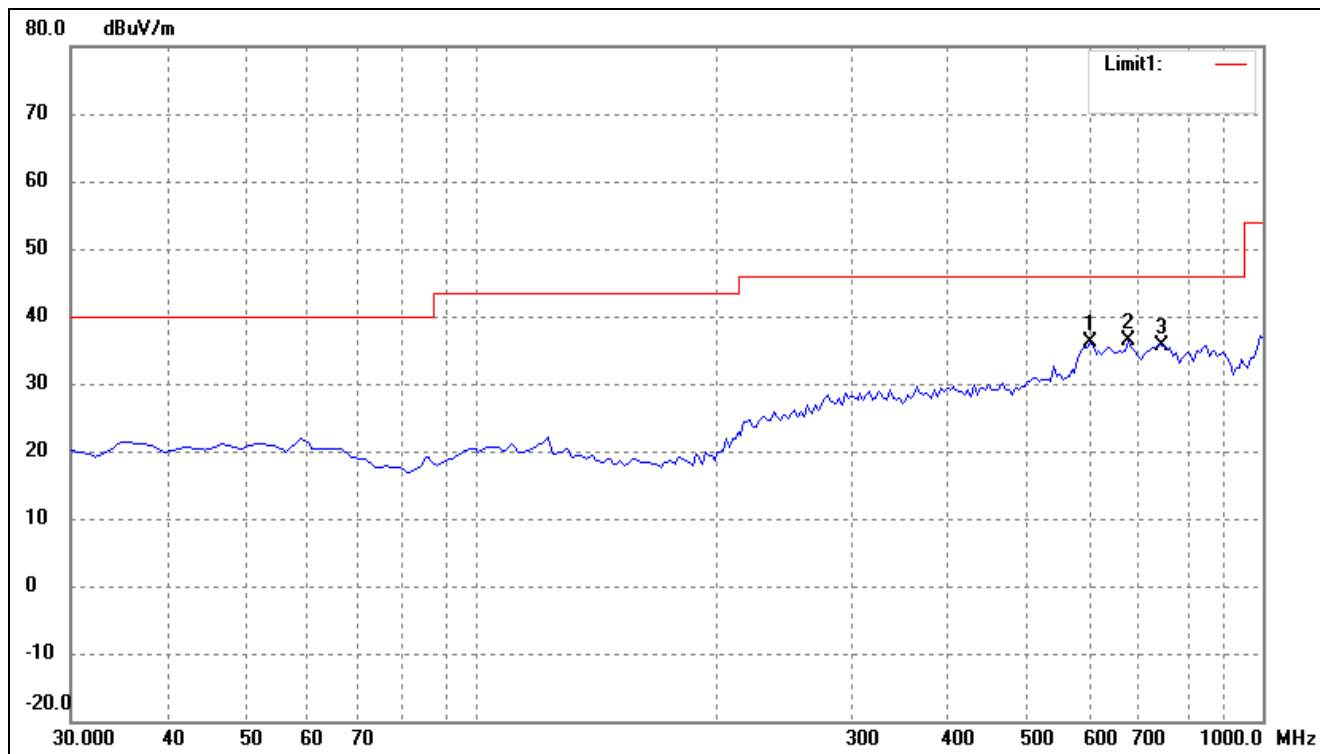
Comment: Battery DC 3.7V

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	391.3250	17.93	12.72	30.65	46.00	-15.35	270	100	peak
2	616.8500	17.56	18.14	35.70	46.00	-10.30	51	200	peak
3	738.1000	17.57	19.44	37.01	46.00	-8.99	310	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	602.3000	16.86	19.15	36.01	46.00	-9.99	174	100	peak
2	679.9000	17.11	19.25	36.36	46.00	-9.64	205	100	peak
3	745.3750	16.42	19.31	35.73	46.00	-10.27	98	100	peak

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

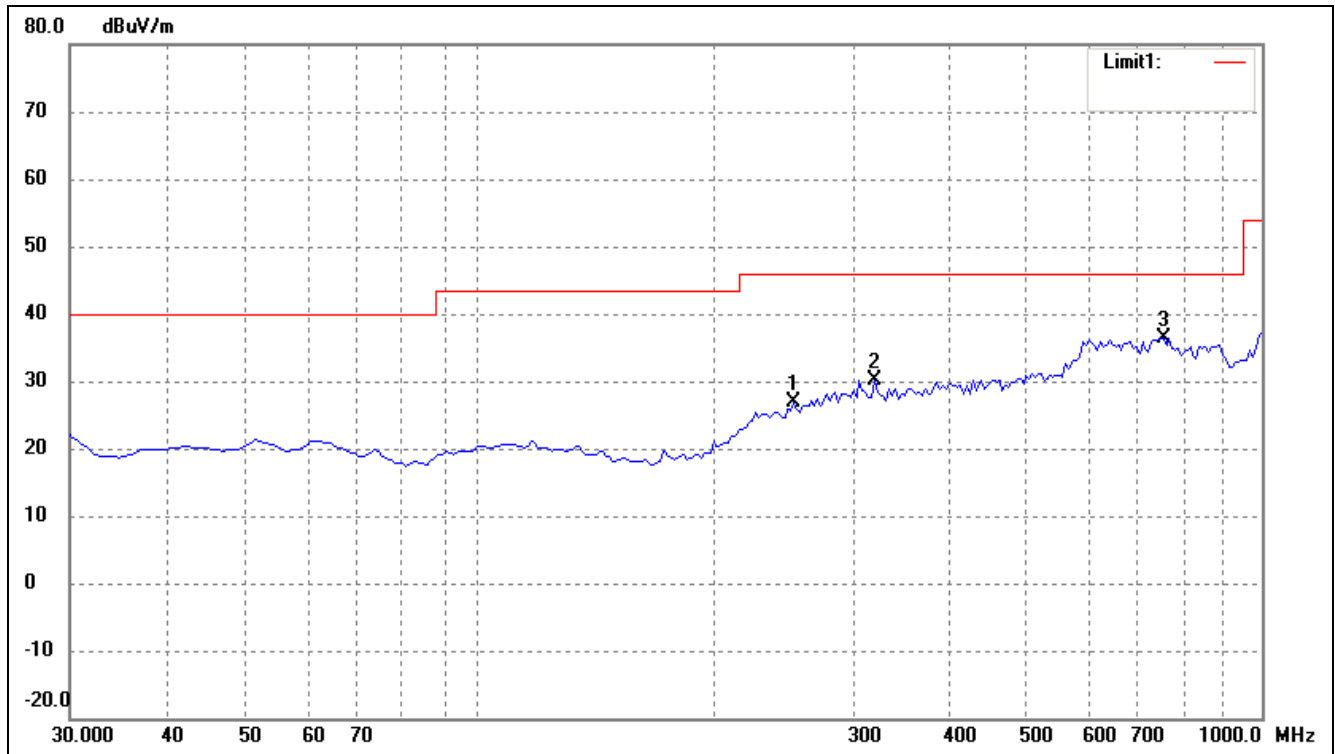
EUT: Tablet PC

Tested Model: F-7XHD

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

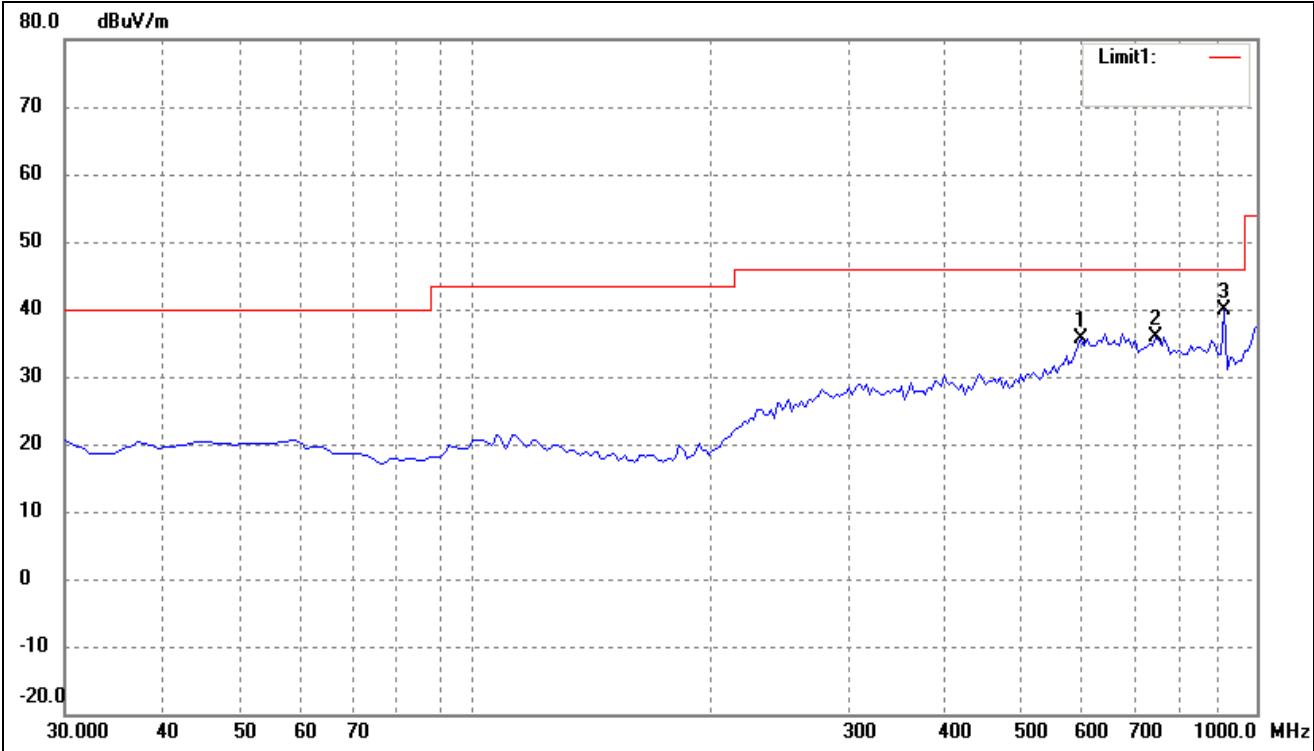
Comment: Battery DC 3.7V

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	253.1000	16.97	9.80	26.77	46.00	-19.23	98	100	peak
2	321.0000	17.85	12.26	30.11	46.00	-15.89	165	200	peak
3	750.2250	17.36	19.08	36.44	46.00	-9.56	201	200	peak

Test Specification: Vertical

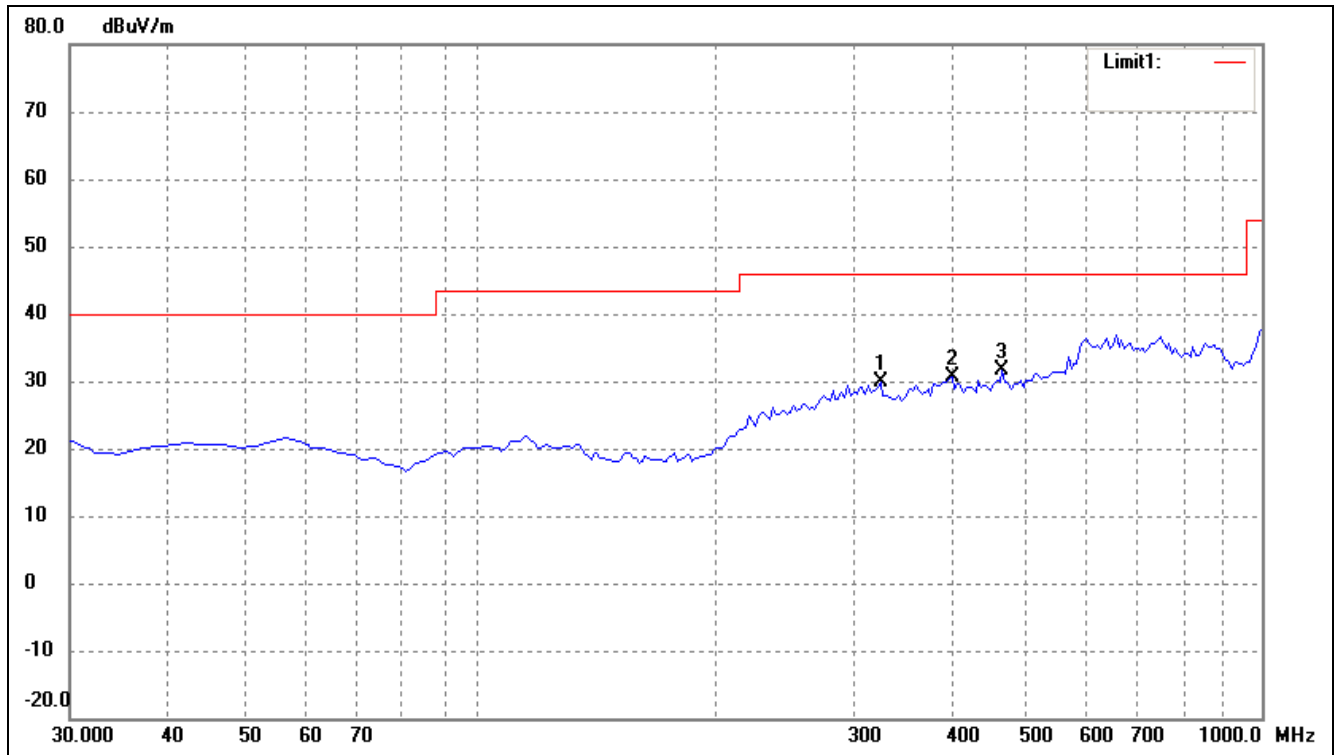


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	597.4500	16.82	18.84	35.66	46.00	-10.34	157	100	peak
2	742.9500	16.41	19.42	35.83	46.00	-10.17	201	100	peak
3	910.2750	23.75	16.15	39.90	46.00	-6.10	98	100	peak

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

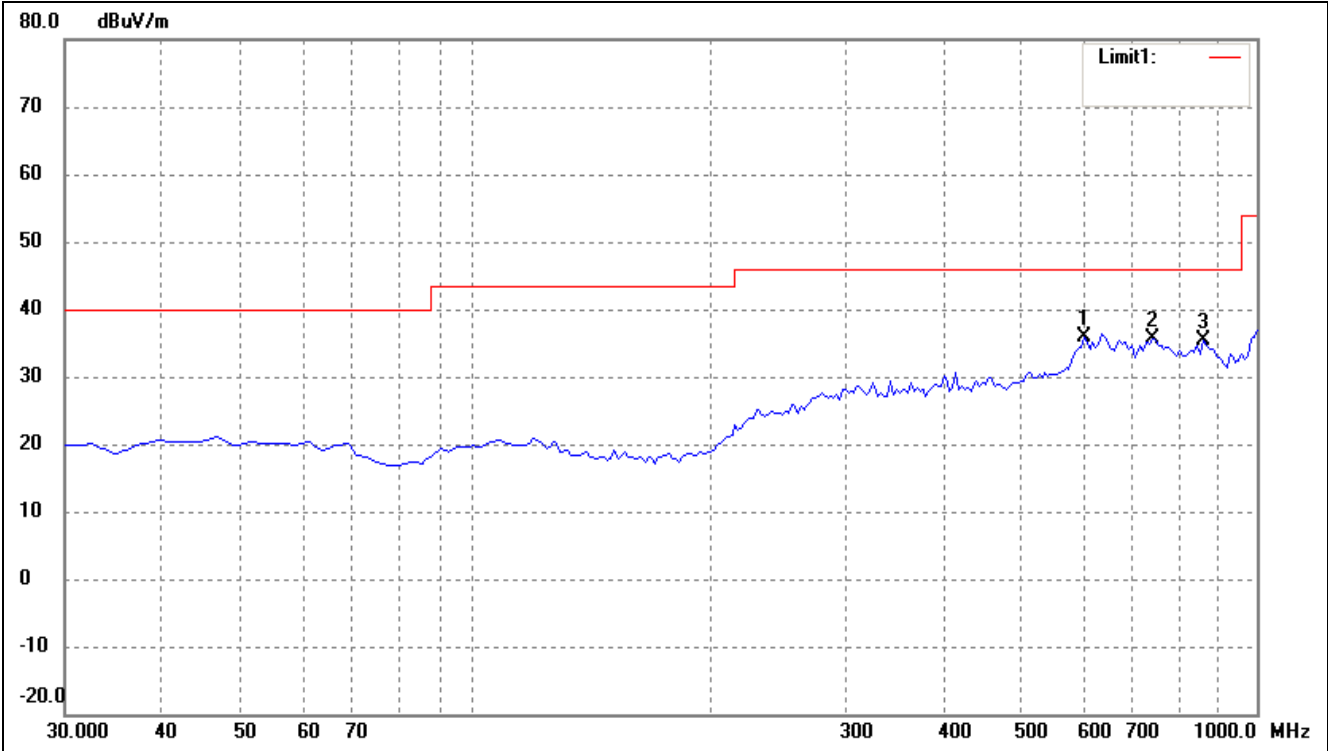
Comment: Battery DC 3.7V

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	325.8500	17.64	12.13	29.77	46.00	-16.23	274	100	peak
2	403.4500	17.55	13.01	30.56	46.00	-15.44	116	100	peak
3	466.5000	18.13	13.41	31.54	46.00	-14.46	82	100	peak

Test Specification: Vertical

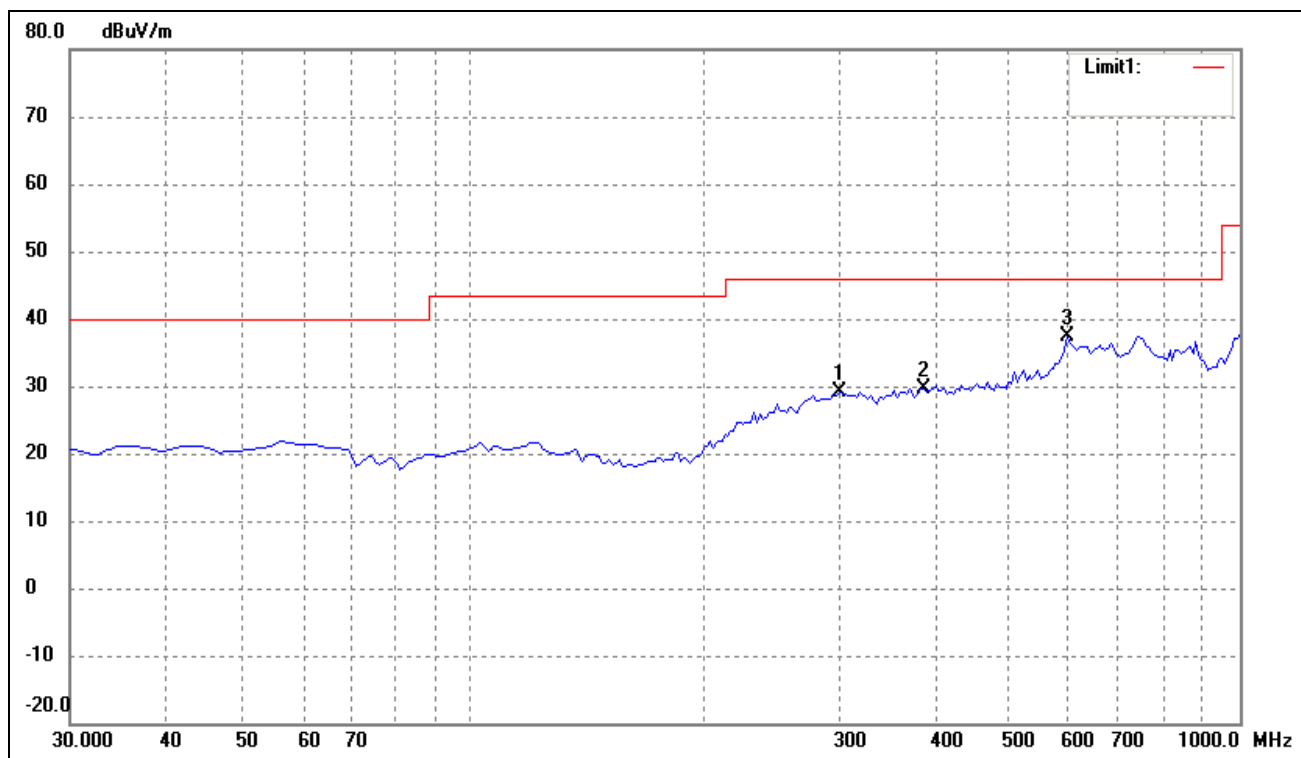


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	602.3000	16.75	19.15	35.90	46.00	-10.10	28	100	peak
2	740.5250	16.16	19.53	35.69	46.00	-10.31	112	100	peak
3	859.3500	18.03	17.30	35.33	46.00	-10.67	226	100	peak

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

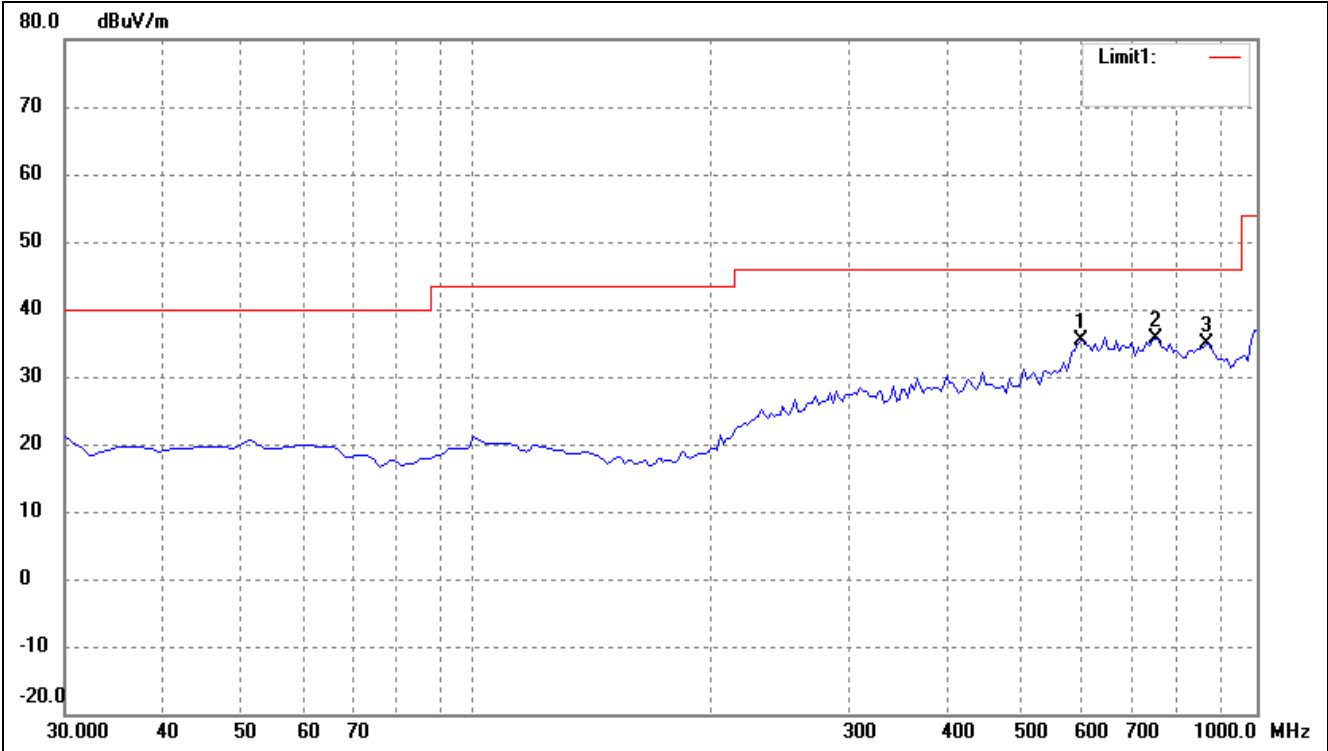
Comment: Battery DC 3.7V

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	301.6000	17.06	12.17	29.23	46.00	-16.77	185	100	peak
2	391.3250	16.95	12.72	29.67	46.00	-16.33	51	100	peak
3	599.8750	18.02	19.30	37.32	46.00	-8.68	78	200	peak

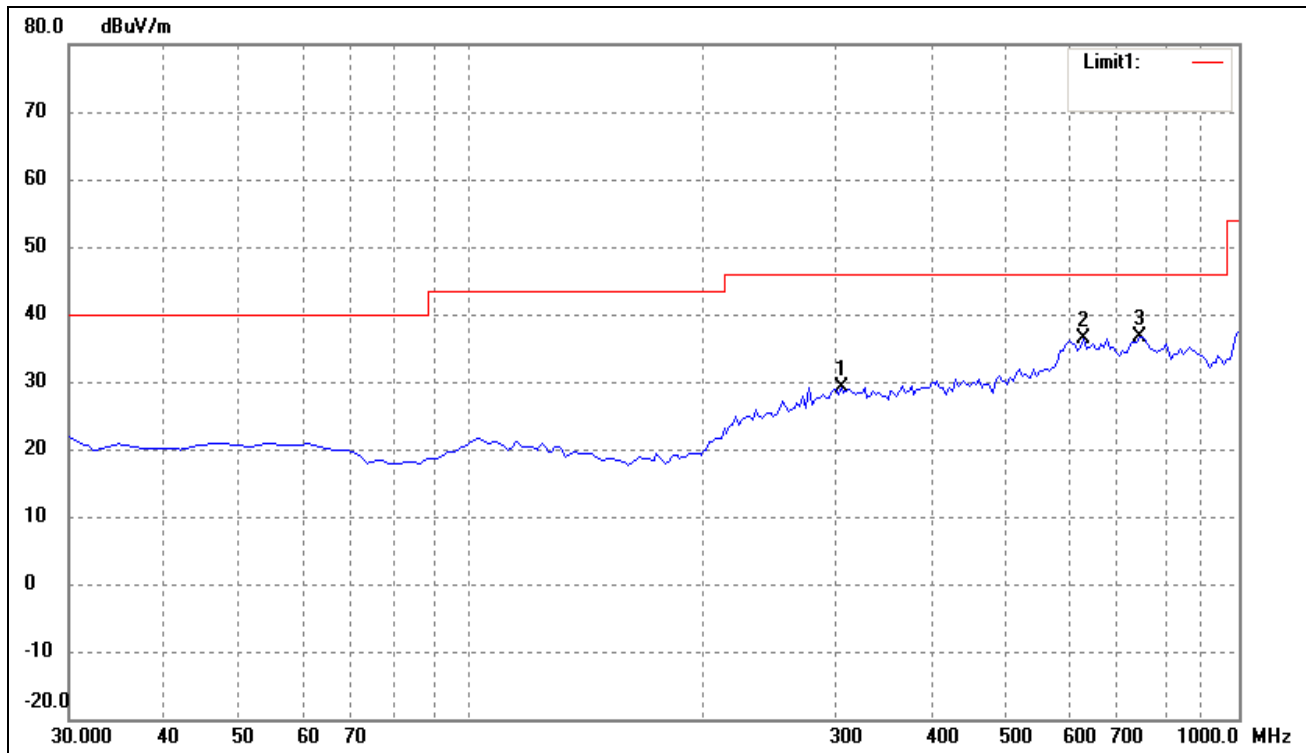
Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	599.8750	16.02	19.30	35.32	46.00	-10.68	78	100	peak
2	747.8000	16.32	19.19	35.51	46.00	-10.49	126	100	peak
3	861.7750	17.51	17.33	34.84	46.00	-11.16	98	100	peak

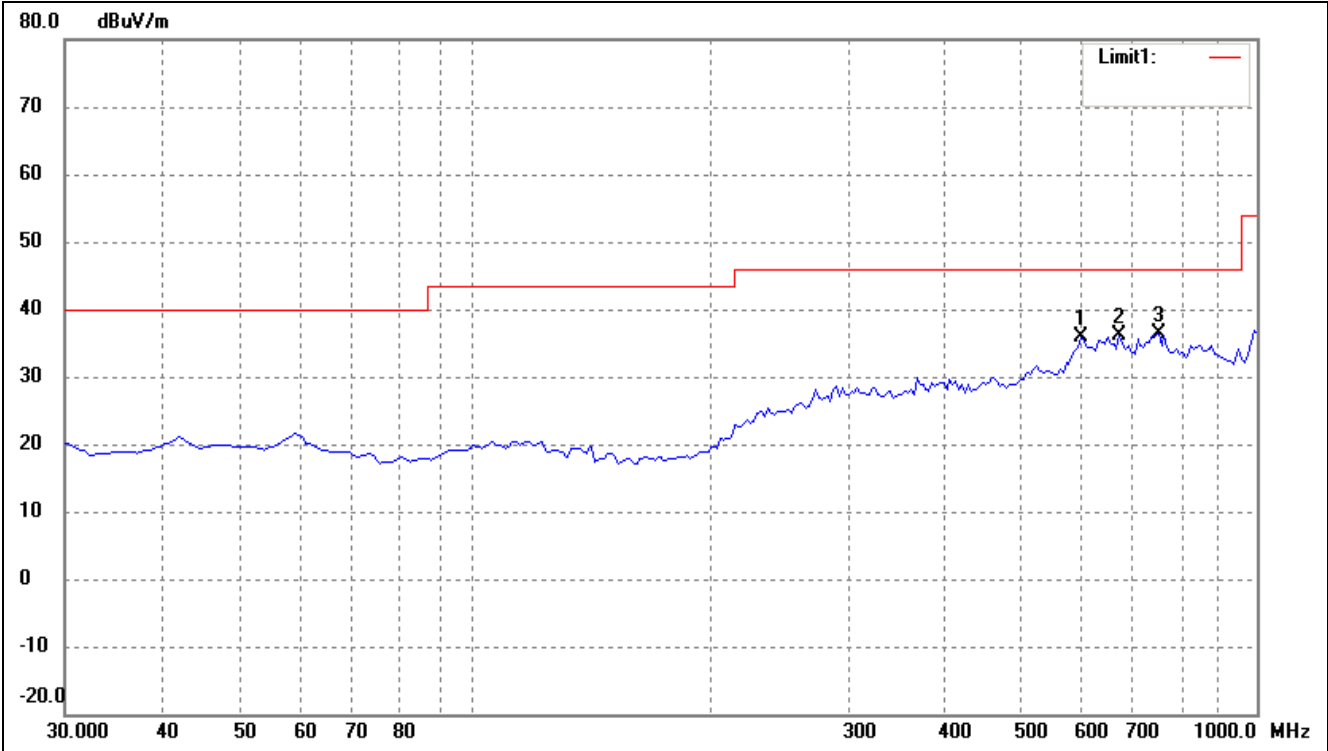
EUT: Tablet PC
 Tested Model: F-7XHD
 Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz
 Comment: Battery DC 3.7V

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	304.0250	16.96	12.19	29.15	46.00	-16.85	18	100	peak
2	633.8250	18.06	18.40	36.46	46.00	-9.54	112	200	peak
3	747.8000	17.56	19.19	36.75	46.00	-9.25	98	200	peak

Test Specification: Vertical

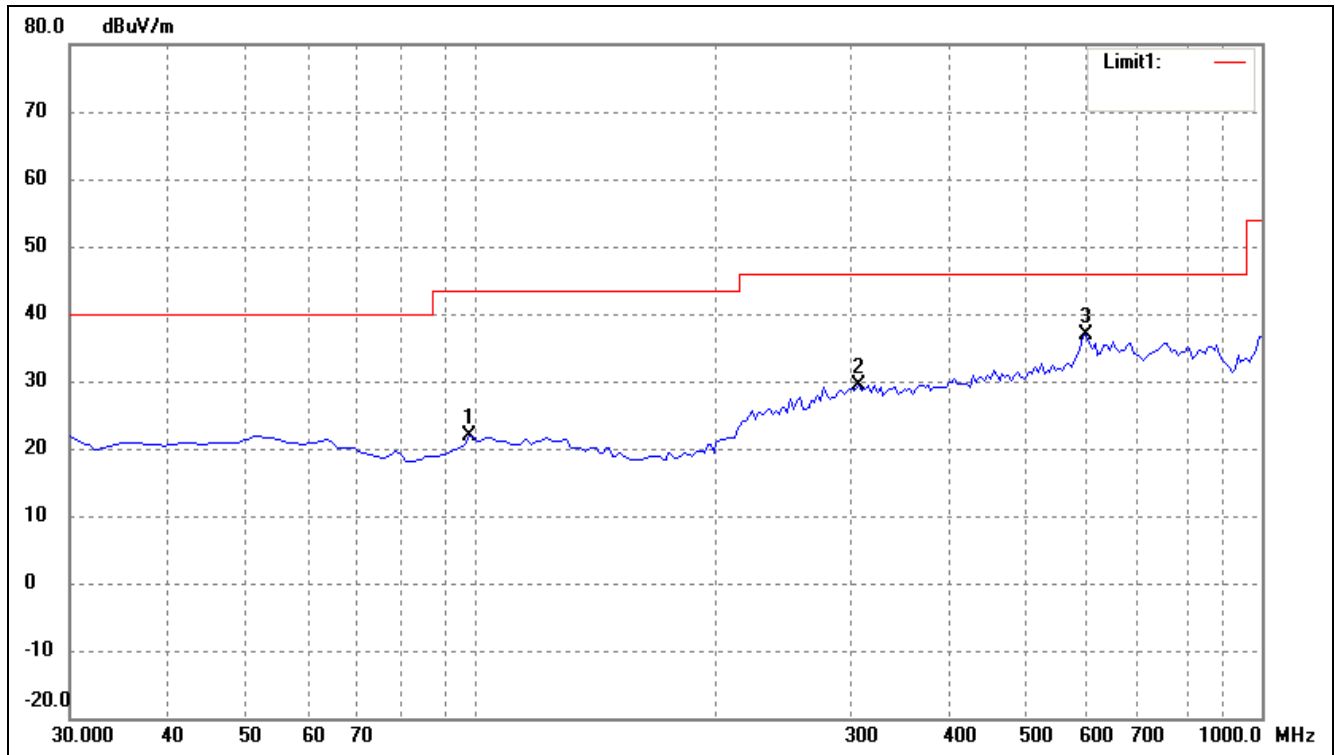


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	599.8750	16.50	19.30	35.80	46.00	-10.20	178	100	peak
2	672.6250	17.18	18.85	36.03	46.00	-9.97	278	100	peak
3	750.2250	17.34	19.08	36.42	46.00	-9.58	98	100	peak

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

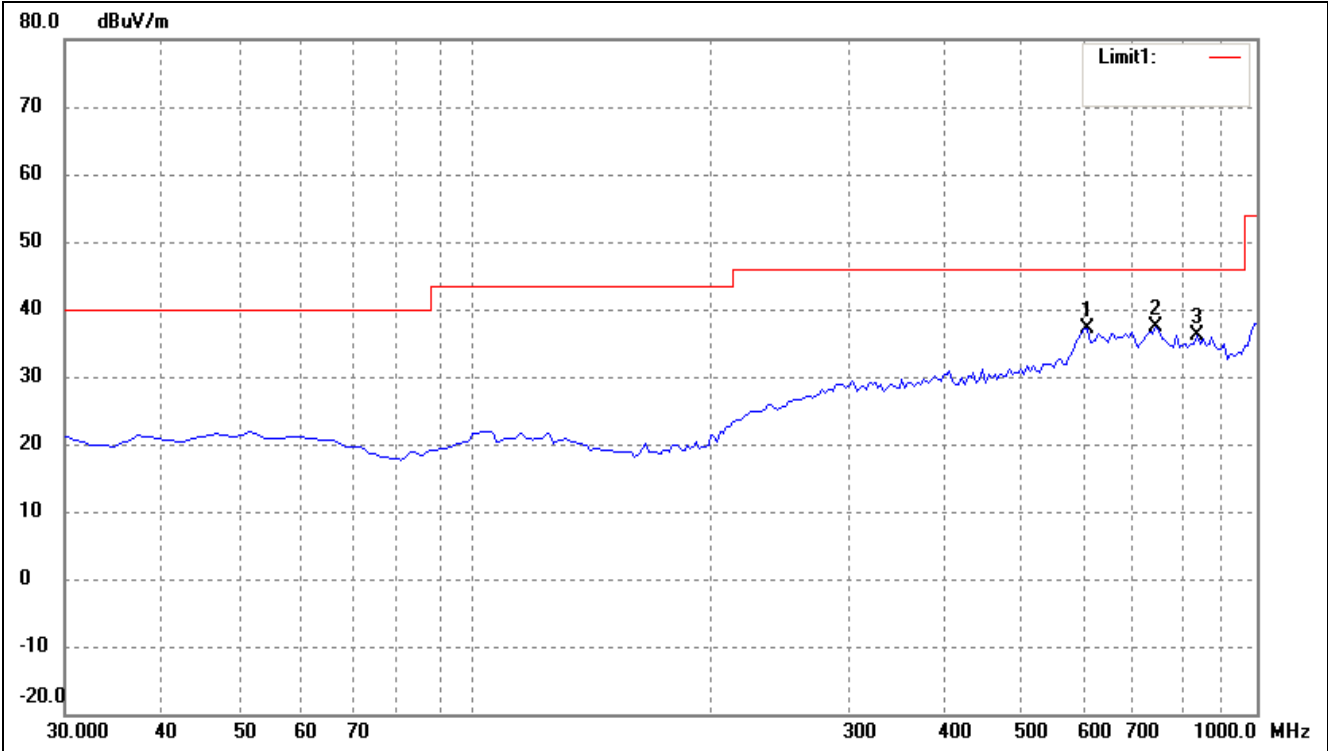
Comment: Battery DC 3.7V

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	97.9000	16.95	4.81	21.76	43.50	-21.74	274	100	peak
2	308.8750	17.20	12.22	29.42	46.00	-16.58	167	100	peak
3	599.8750	17.54	19.30	36.84	46.00	-9.16	201	100	peak

Test Specification: Vertical

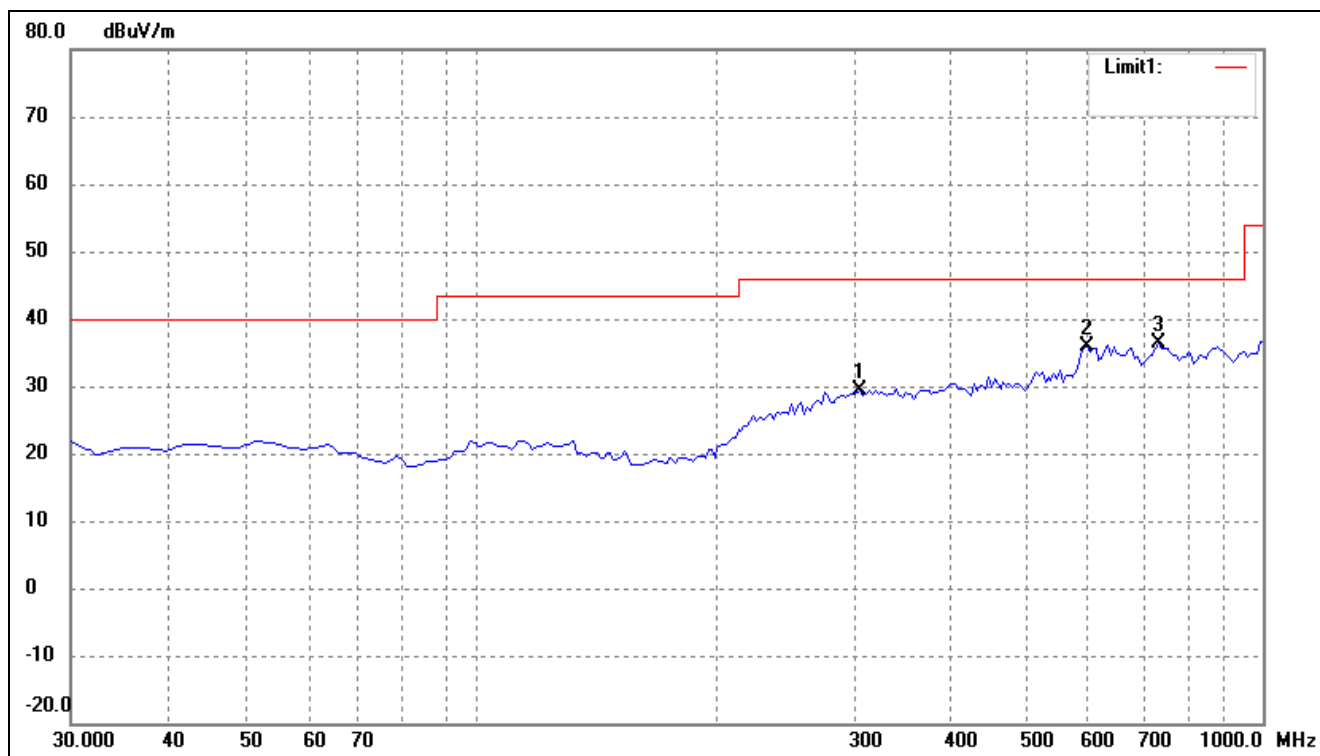


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	(°)	(cm)	
1	609.5750	18.51	18.65	37.16	46.00	-8.84	57	100	peak
2	745.3750	18.00	19.31	37.31	46.00	-8.69	142	100	peak
3	844.8000	18.53	17.50	36.03	46.00	-9.97	98	100	peak

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

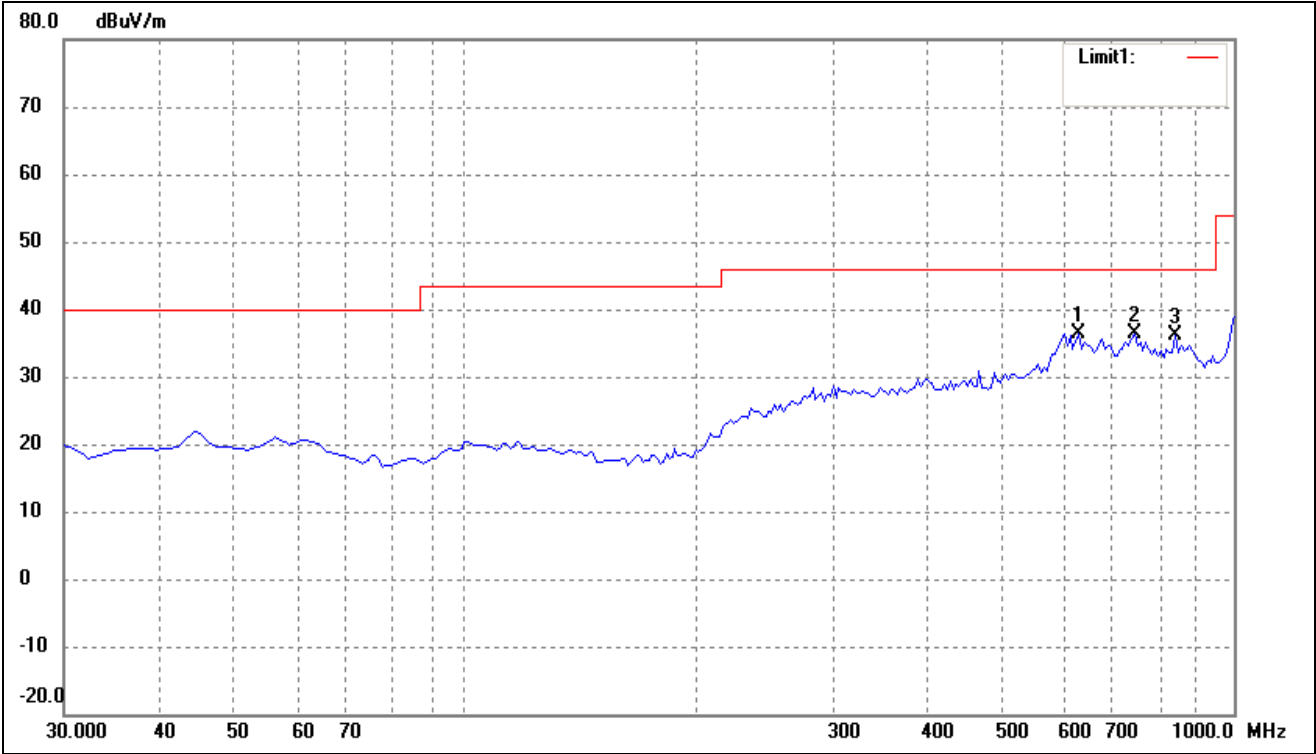
Comment: Battery DC 3.7V

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	308.8750	17.20	12.22	29.42	46.00	-16.58	310	100	peak
2	599.8750	16.54	19.30	35.84	46.00	-10.16	257	100	peak
3	740.5250	16.93	19.53	36.46	46.00	-9.54	187	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	631.4000	18.03	18.32	36.35	46.00	-9.65	17	100	peak
2	747.8000	17.10	19.19	36.29	46.00	-9.71	87	100	peak
3	844.8000	18.60	17.50	36.10	46.00	-9.90	265	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							
4824.000	54.01	-3.87	50.14	74.00	-23.86	H	PK
4824.000	38.82	-3.87	34.95	54.00	-19.05	H	AV
7236.000	46.36	1.14	47.50	74.00	-26.50	H	PK
7236.000	34.94	1.19	36.13	54.00	-17.87	H	AV
4824.000	57.35	-3.86	53.49	74.00	-20.51	V	PK
4824.000	40.59	-3.86	36.73	54.00	-17.27	V	AV
7236.000	49.14	1.10	50.24	74.00	-23.76	V	PK
7236.000	37.41	1.10	38.51	54.00	-15.49	V	AV
Middle Channel-2437MHz							
4874.000	54.71	-3.74	50.97	74.00	-23.03	H	PK
4874.000	39.92	-3.74	36.18	54.00	-17.82	H	AV
7311.000	47.76	1.47	49.23	74.00	-24.77	H	PK
7311.000	33.16	1.47	34.63	54.00	-19.37	H	AV
4874.000	53.91	-3.74	50.17	74.00	-23.83	V	PK
4874.000	40.81	-3.74	37.07	54.00	-16.93	V	AV
7311.000	47.98	1.47	49.45	74.00	-24.55	V	PK
7311.000	34.01	1.47	35.48	54.00	-18.52	V	AV
High Channel-2462MHz							
4924.000	55.81	-3.59	52.22	74.00	-21.78	H	PK
4924.000	41.72	-3.59	38.13	54.00	-15.87	H	AV
7386.000	46.39	1.79	48.18	74.00	-25.82	H	PK
7386.000	34.16	1.79	35.95	54.00	-18.05	H	AV
4924.000	54.92	-3.59	51.33	74.00	-22.67	V	PK
4924.000	42.01	-3.59	38.42	54.00	-15.58	V	AV
7386.000	47.94	1.79	49.73	74.00	-24.27	V	PK
7386.000	35.14	1.79	36.93	54.00	-17.07	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							
4824.000	55.51	-3.86	51.65	74.00	-22.35	H	PK
4824.000	42.22	-3.86	38.36	54.00	-15.64	H	AV
7236.000	48.49	1.10	49.59	74.00	-24.41	H	PK
7236.000	34.41	1.10	35.51	54.00	-18.49	H	AV
4824.000	55.96	-3.86	52.10	74.00	-21.90	V	PK
4824.000	42.65	-3.86	38.79	54.00	-15.21	V	AV
7236.000	49.21	1.10	50.31	74.00	-23.69	V	PK
7236.000	35.51	1.10	36.61	54.00	-17.39	V	AV
Middle Channel-2437MHz							
4874.000	55.12	-3.74	51.38	74.00	-22.62	H	PK
4874.000	43.23	-3.74	39.49	54.00	-14.51	H	AV
7311.000	47.34	1.47	48.81	74.00	-25.19	H	PK
7311.000	35.25	1.47	36.72	54.00	-17.28	H	AV
4874.000	57.06	-3.74	53.32	74.00	-20.68	V	PK
4874.000	43.81	-3.74	40.07	54.00	-13.93	V	AV
7311.000	48.44	1.47	49.91	74.00	-24.09	V	PK
7311.000	35.31	1.47	36.78	54.00	-17.22	V	AV
High Channel-2462MHz							
4924.000	54.12	-3.59	50.53	74.00	-23.47	H	PK
4924.000	40.41	-3.59	36.82	54.00	-17.18	H	AV
7386.000	47.45	1.79	49.24	74.00	-24.76	H	PK
7386.000	34.65	1.79	36.44	54.00	-17.56	H	AV
4924.000	56.15	-3.59	52.56	74.00	-21.44	V	PK
4924.000	42.64	-3.59	39.05	54.00	-14.95	V	AV
7386.000	48.52	1.79	50.31	74.00	-23.69	V	PK
7386.000	35.96	1.79	37.75	54.00	-16.25	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							
4824.000	55.61	-3.86	51.75	74.00	-22.25	H	PK
4824.000	40.52	-3.86	36.66	54.00	-17.34	H	AV
7236.000	47.26	1.10	48.36	74.00	-25.64	H	PK
7236.000	34.45	1.10	35.55	54.00	-18.45	H	AV
4824.000	56.71	-3.86	52.85	74.00	-21.15	V	PK
4824.000	43.17	-3.86	39.31	54.00	-14.69	V	AV
7236.000	49.28	1.10	50.38	74.00	-23.62	V	PK
7236.000	35.79	1.10	36.89	54.00	-17.11	V	AV
Middle Channel-2437MHz							
4874.000	54.12	-3.74	50.38	74.00	-23.62	H	PK
4874.000	42.46	-3.74	38.72	54.00	-15.28	H	AV
7311.000	48.73	1.47	50.2	74.00	-23.80	H	PK
7311.000	33.11	1.47	34.58	54.00	-19.42	H	AV
4874.000	54.94	-3.74	51.20	74.00	-22.80	V	PK
4874.000	42.66	-3.74	38.92	54.00	-15.08	V	AV
7311.000	48.42	1.47	49.89	74.00	-24.11	V	PK
7311.000	35.21	1.47	36.68	54.00	-17.32	V	AV
High Channel-2462MHz							
4924.000	53.98	-3.59	50.39	74.00	-23.61	H	PK
4924.000	43.29	-3.59	39.70	54.00	-14.30	H	AV
7386.000	48.31	1.79	50.10	74.00	-23.90	H	PK
7386.000	36.12	1.79	37.91	54.00	-16.09	H	AV
4924.000	55.71	-3.59	52.12	74.00	-21.88	V	PK
4924.000	41.42	-3.59	37.83	54.00	-16.17	V	AV
7386.000	48.56	1.79	50.35	74.00	-23.65	V	PK
7386.000	35.34	1.79	37.13	54.00	-16.87	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 Channel-2422MHz							
4844.000	53.22	-3.90	49.32	74.00	-24.68	H	PK
4824.000	38.23	-3.90	34.33	54.00	-19.67	H	AV
7266.000	46.48	1.06	47.54	74.00	-26.46	H	PK
7266.000	32.51	1.06	33.57	54.00	-20.43	H	AV
4844.000	54.27	-3.90	50.37	74.00	-23.63	V	PK
4824.000	39.49	-3.90	35.59	54.00	-18.41	V	AV
7266.000	48.81	1.06	49.87	74.00	-24.13	V	PK
7266.000	34.75	1.06	35.81	54.00	-18.19	V	AV
Middle Channel-2437MHz							
4874.000	52.52	-3.74	48.78	74.00	-25.22	H	PK
4874.000	37.86	-3.74	34.12	54.00	-19.88	H	AV
7311.000	44.81	1.47	46.28	74.00	-27.72	H	PK
7311.000	32.07	1.47	33.54	54.00	-20.46	H	AV
4874.000	53.79	-3.74	50.05	74.00	-23.95	V	PK
4874.000	39.93	-3.74	36.19	54.00	-17.81	V	AV
7311.000	45.71	1.47	47.18	74.00	-26.82	V	PK
7311.000	34.07	1.47	35.54	54.00	-18.46	V	AV
High Channel-2452MHz							
4904.000	52.61	-3.63	48.98	74.00	-25.02	H	PK
4904.000	39.32	-3.63	35.69	54.00	-18.31	H	AV
7356.000	45.66	1.62	47.28	74.00	-26.72	H	PK
7356.000	30.77	1.62	32.39	54.00	-21.61	H	AV
4904.000	54.81	-3.63	51.18	74.00	-22.82	V	PK
4904.000	40.82	-3.63	37.19	54.00	-16.81	V	AV
7356.000	48.17	1.62	49.79	74.00	-24.21	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 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 Procedure

According to the KDB 558074D01 v03r03, 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 V03r03, 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.

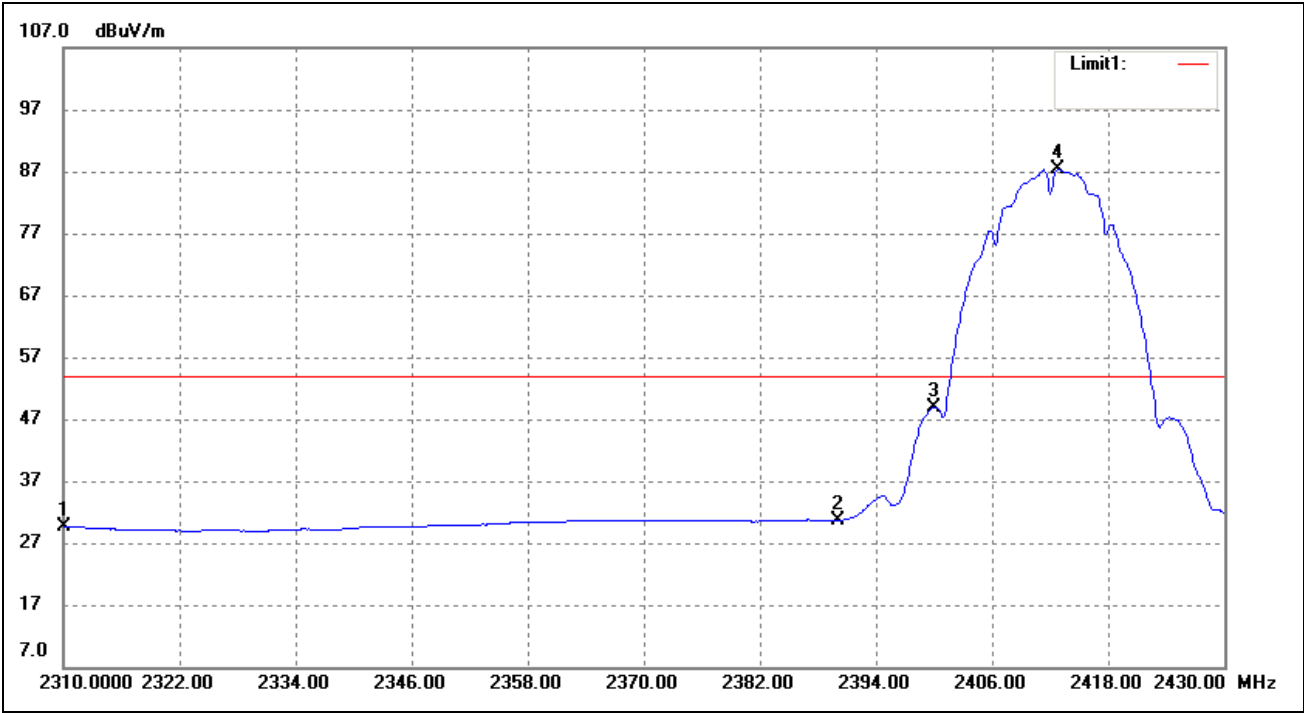
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.3 Environmental Conditions

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

9.4 Summary of Test Results/Plots

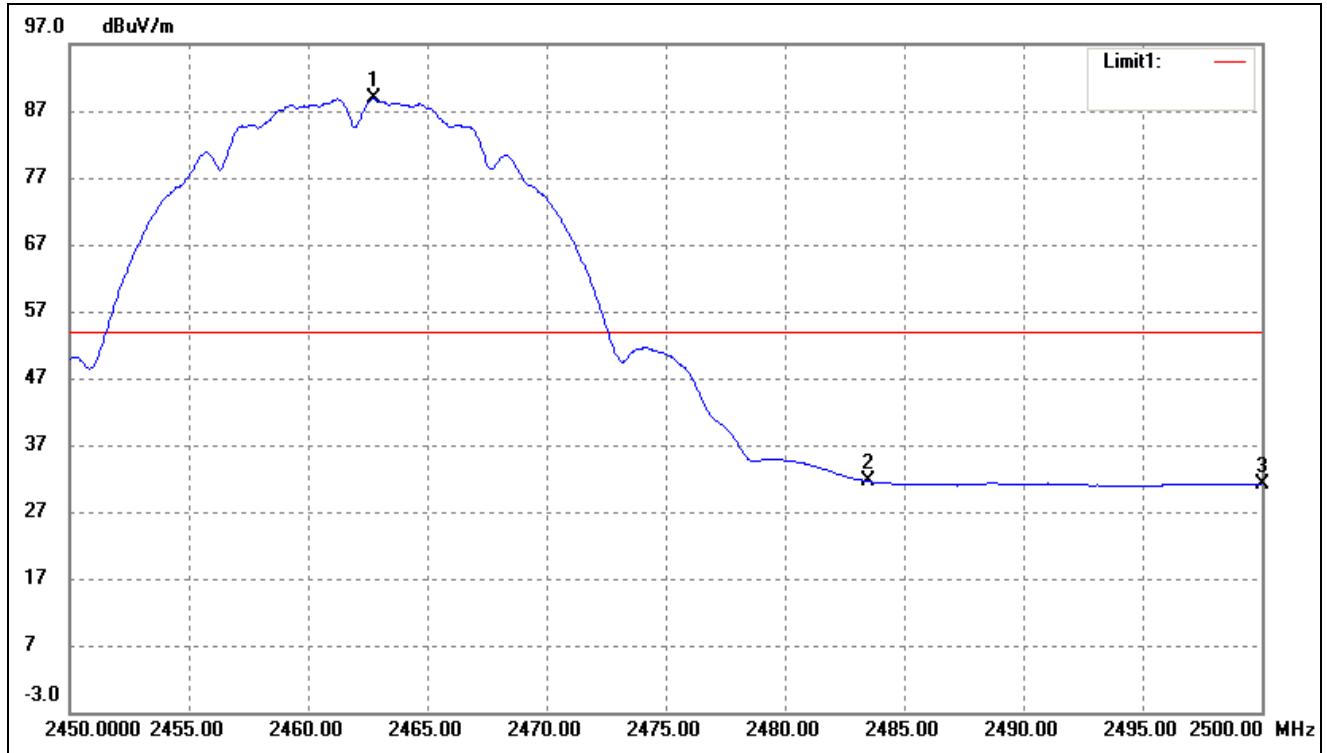
802.11b-Lowest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	33.95	-4.42	29.53	54.00	-24.47	Average Detector
	2310.000	44.98	-4.42	40.56	74.00	-33.44	Peak Detector
2	2390.000	34.34	-3.72	30.62	54.00	-23.38	Average Detector
	2390.000	45.43	-3.72	41.71	74.00	-32.29	Peak Detector
3	2400.000	52.53	-3.64	48.89	54.00	-5.11	Average Detector
	2400.000	58.48	-3.64	54.84	74.00	-19.16	Peak Detector

802.11b-Highest Bandedge

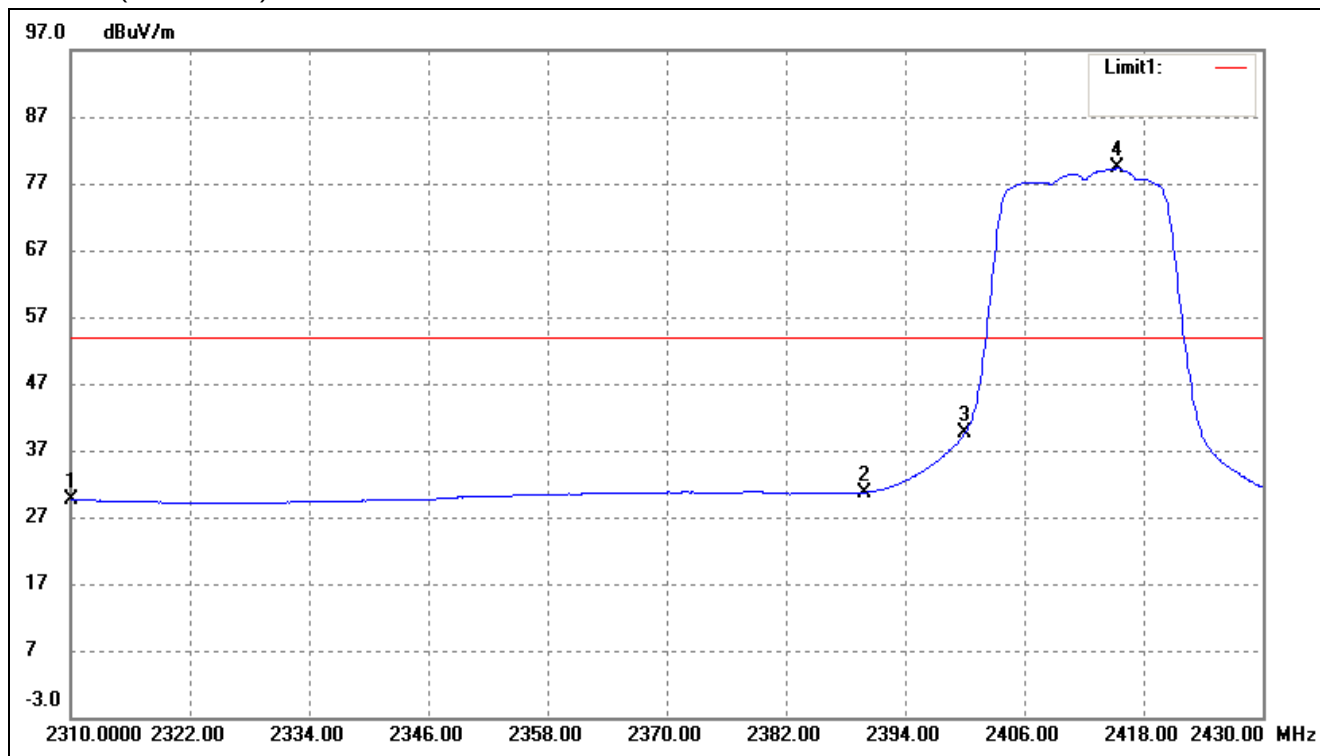
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.750	91.97	-3.17	88.80	/	/	Average Detector
	2463.050	96.99	-3.16	93.83	/	/	Peak Detector
2	2483.500	Delta = 59.42dBc		31.57	54.00	-22.43	Average Detector
	2483.500			43.42	74.00	-30.58	Peak Detector
3	2500.000	45.70	-2.88	42.82	74.00	-31.18	Average Detector
	2500.000	34.03	-2.88	31.15	54.00	-22.85	Peak Detector

802.11g-Lowest Bandedge

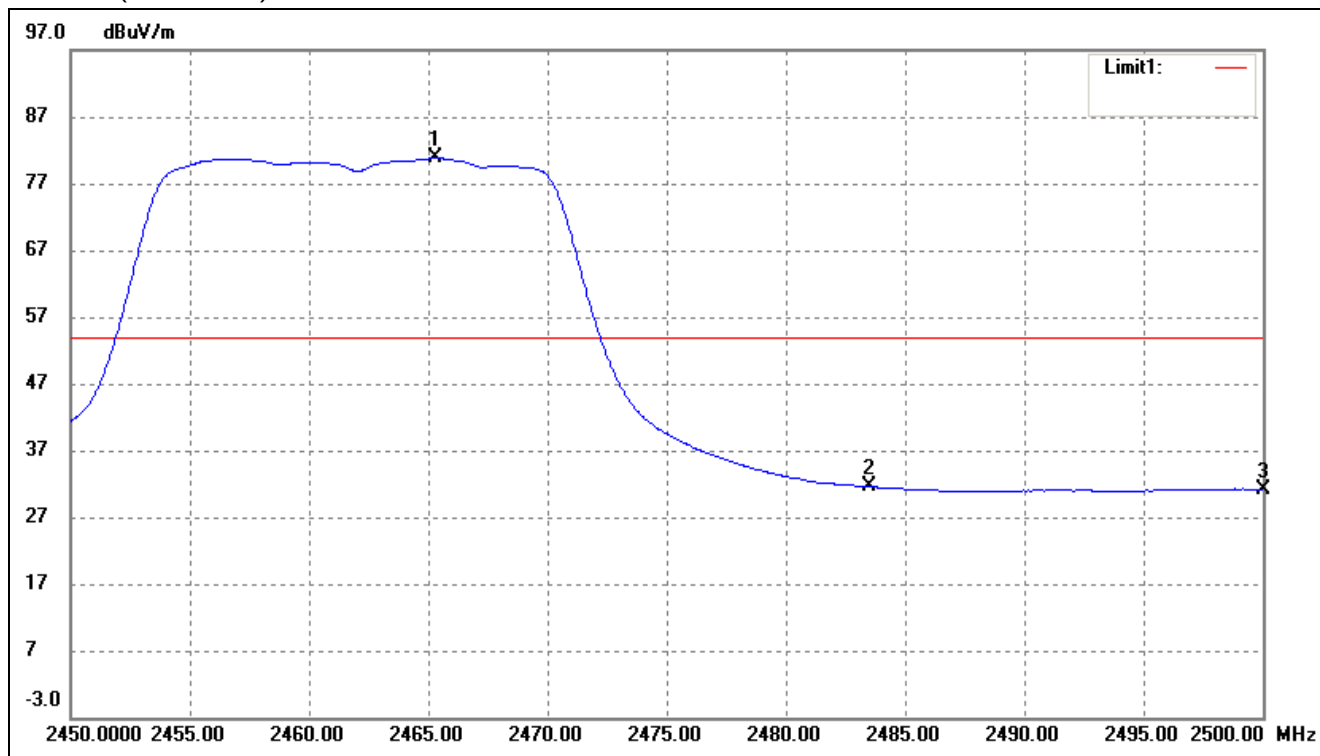
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	34.03	-4.42	29.61	54.00	-24.39	Average Detector
	2310.000	45.73	-4.42	41.31	74.00	-32.69	Peak Detector
2	2390.000	34.44	-3.72	30.72	54.00	-23.28	Average Detector
	2390.000	46.55	-3.72	42.83	74.00	-31.17	Peak Detector
3	2400.000	43.16	-3.64	39.52	54.00	-14.48	Average Detector
	2400.000	72.22	-3.64	68.58	74.00	-5.42	Peak Detector

802.11g-Highest Bandedge

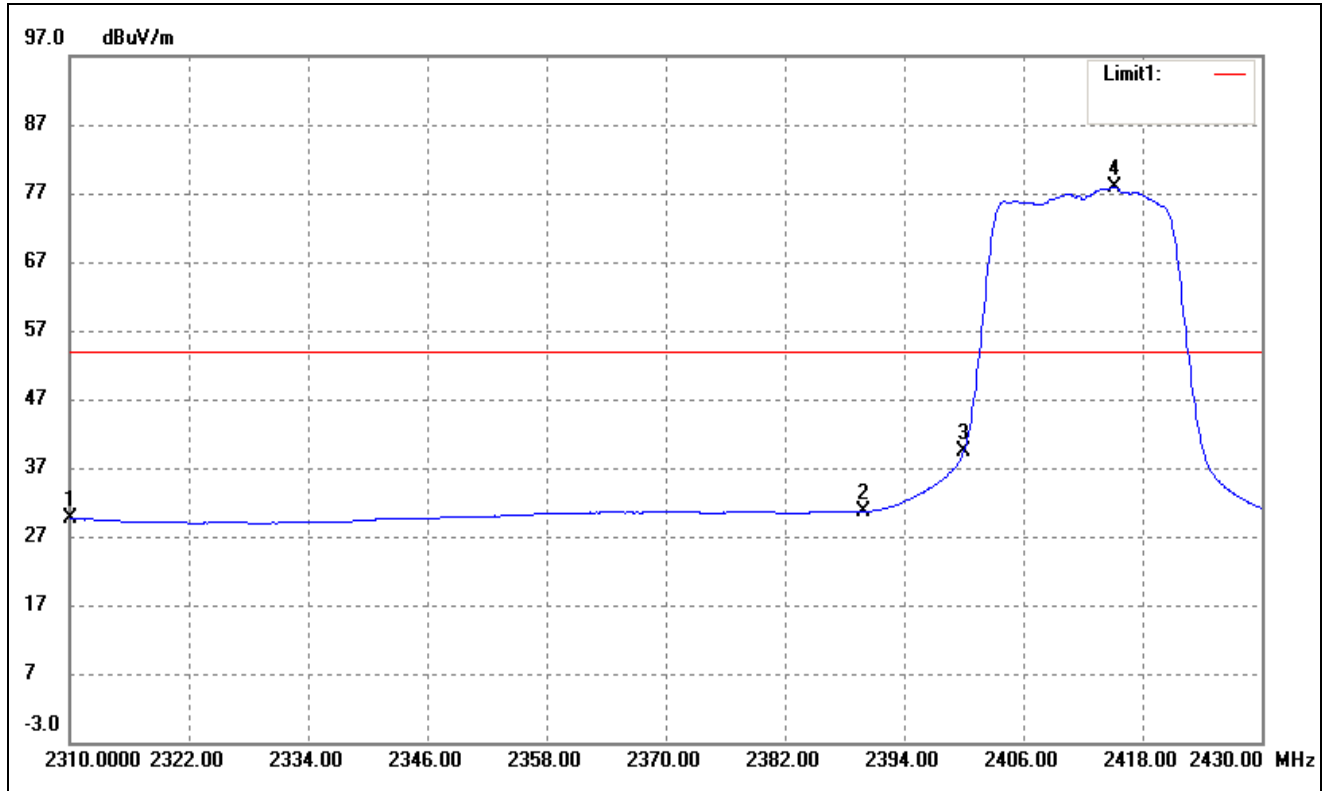
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2465.300	83.97	-3.15	80.82	/	/	Average Detector
	2465.100	95.79	-3.15	92.64	/	/	Peak Detector
2	2483.500	Delta = 49.25dBc		31.57	54.00	-22.43	Average Detector
	2483.500			44.32	74.00	-29.68	Peak Detector
3	2500.000	34.13	-2.88	31.25	54.00	-22.75	Average Detector
	2500.000	46.58	-2.88	43.70	74.00	-30.30	Peak Detector

802.11n-HT20-Lowest Bandedge

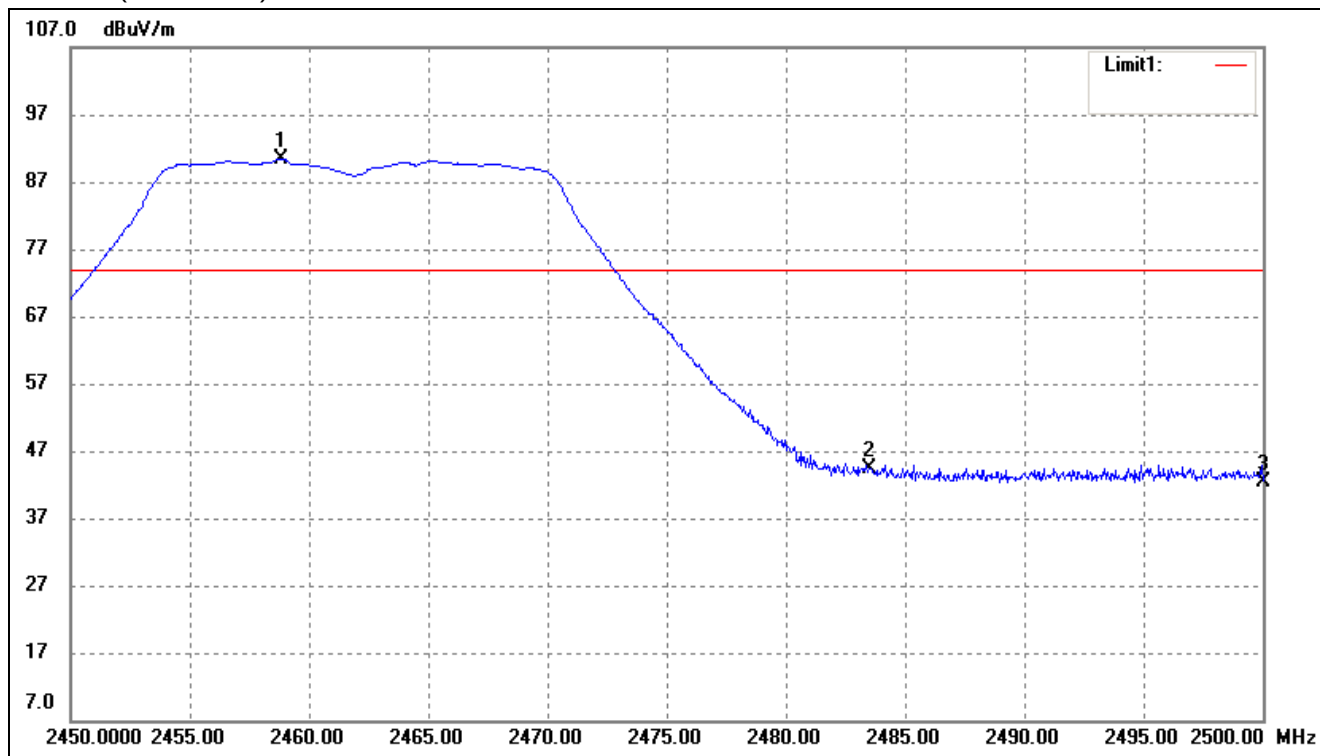
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	33.94	-4.42	29.52	54.00	-24.48	Average Detector
	2310.000	46.11	-4.42	41.69	74.00	-32.31	Peak Detector
2	2390.000	34.35	-3.72	30.63	54.00	-23.37	Average Detector
	2390.000	46.19	-3.72	42.47	74.00	-31.53	Peak Detector
3	2400.000	43.02	-3.64	39.38	54.00	-14.62	Average Detector
	2400.000	71.95	-3.64	68.31	74.00	-5.69	Peak Detector

802.11n-HT20-Highest Bandedge

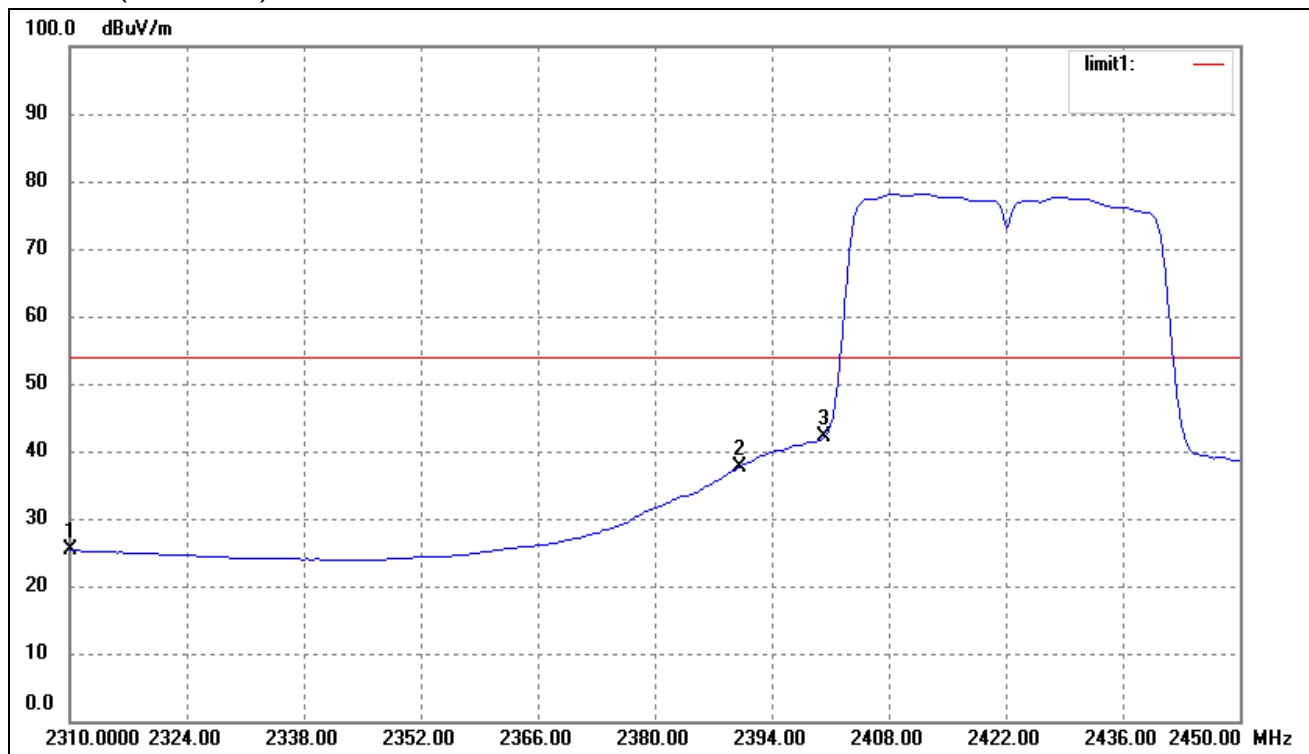
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.850	93.69	-3.19	90.50	/	/	Average Detector
	2465.150	82.62	-3.15	79.47	/	/	Peak Detector
2	2483.500	Delta = 46.12dBc		44.38	74.00	-29.62	Average Detector
	2483.500			31.50	54.00	-22.50	Peak Detector
3	2500.000	45.37	-2.89	42.48	74.00	-31.52	Average Detector
	2500.000	34.06	-2.88	31.18	54.00	-22.82	Peak Detector

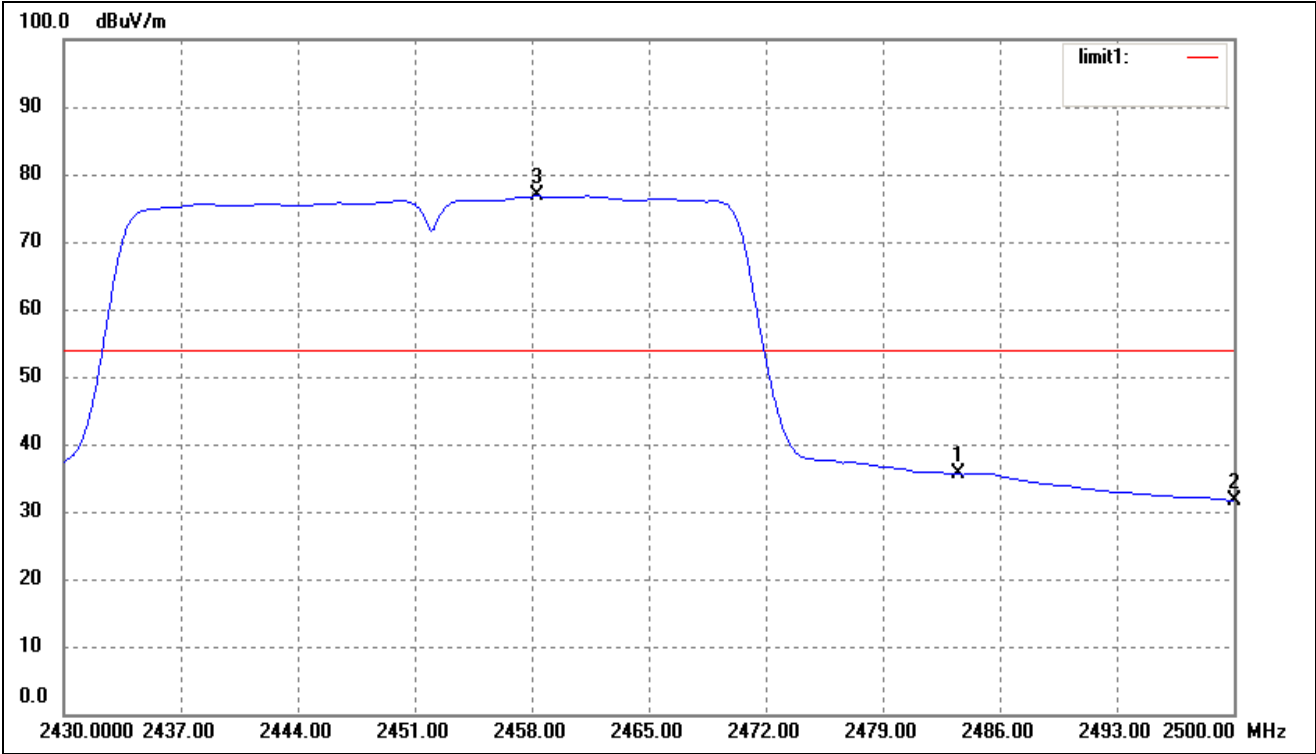
802.11n-HT40-Lowest Bandedge

Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	29.03	-3.71	25.32	54.00	-28.68	Average Detector
	2310.000	42.42	-3.71	38.71	74.00	-35.29	Peak Detector
2	2390.000	41.17	-3.54	37.63	54.00	-16.37	Average Detector
	2390.000	58.01	-3.54	54.47	74.00	-19.53	Peak Detector
3	2400.000	45.53	-3.51	42.02	54.00	-11.98	Average Detector
	2400.000	61.59	-3.51	58.08	74.00	-15.92	Peak Detector

802.11n-HT40-Highest Bandedge
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3	2458.280	80.15	-3.38	76.77	/	/	Average Detector
	2458.280	91.25	-3.38	87.87	/	/	Peak Detector
1	2483.500	Delta = 40.73dBc		36.04	54.00	-17.96	Average Detector
	2483.500			47.14	74.00	-26.86	Peak Detector
2	2500.000	34.98	-3.28	31.70	54.00	-22.30	Average Detector
	2500.000	48.54	-3.28	45.26	74.00	-28.74	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.

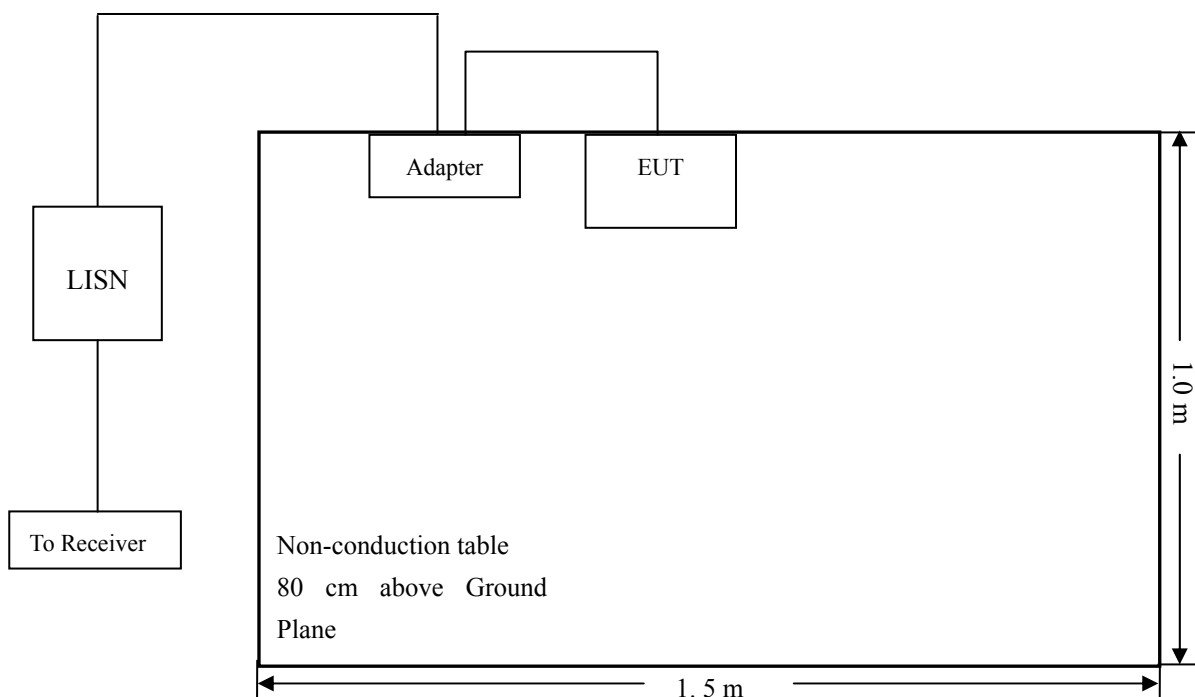
10.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 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.

10.3 Basic Test Setup Block Diagram



10.4 Environmental Conditions

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

10.5 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

10.6 Summary of Test Results/Plots

According to the data in section 10.7, the EUT complied with the FCC Part 15.207 Conducted margin for this device, with the *worst* margin reading of:

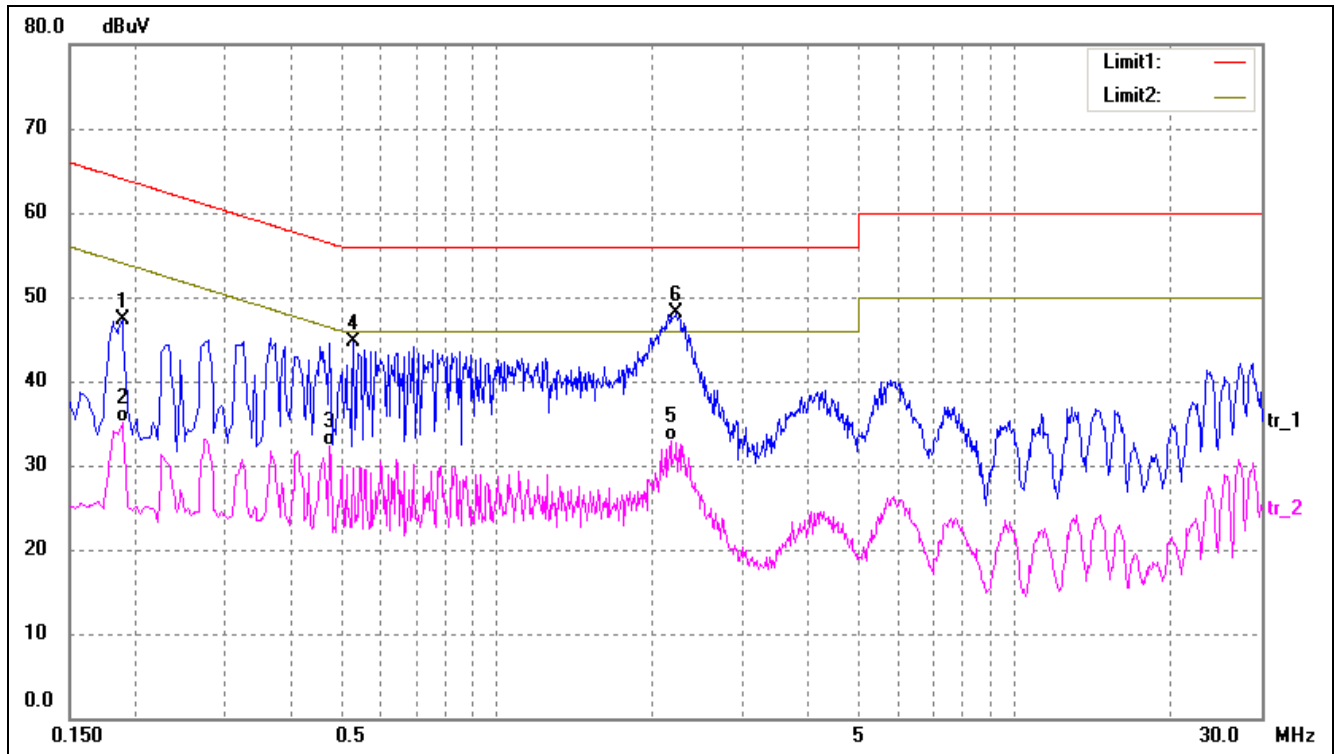
-7.99 dB at 2.2260 MHz in the **Neutral** mode, **Peak** detector, **0.15-30MHz**

10.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

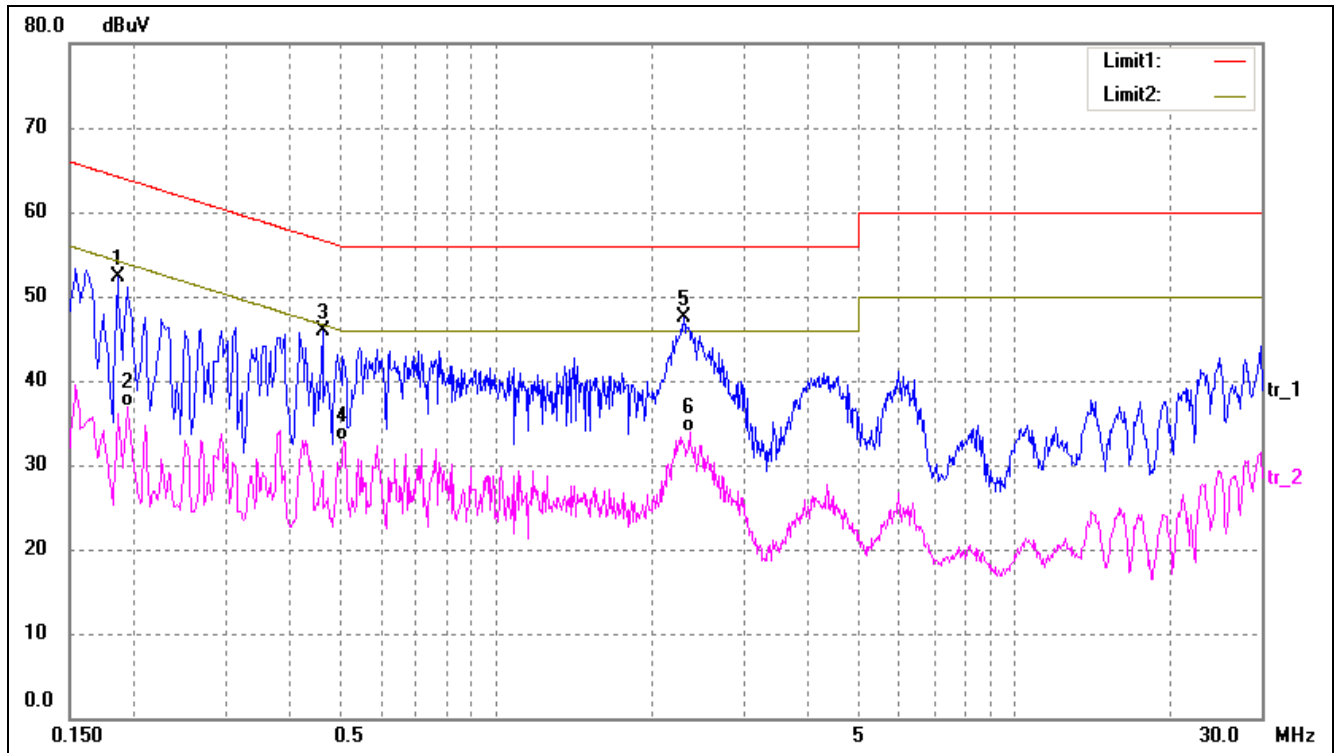
EUT: Tablet PC
 Tested Model: F-7XHD
 Operating Condition: Transmitting(Wi-Fi)
 Comment: Adapter DC 5V

Test Specification: Neutral



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1900	34.77	12.50	47.27	64.04	-16.77	peak
2	0.1900	22.53	12.50	35.03	54.04	-19.01	AVG
3	0.4780	19.71	12.50	32.21	46.37	-14.16	AVG
4	0.5300	32.21	12.53	44.74	56.00	-11.26	peak
5	2.1780	19.95	13.00	32.95	46.00	-13.05	AVG
6*	2.2260	35.01	13.00	48.01	56.00	-7.99	peak

Test Specification: Live



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1860	39.82	12.50	52.32	64.21	-11.89	peak
2	0.1940	24.42	12.50	36.92	53.86	-16.94	AVG
3	0.4620	33.34	12.50	45.84	56.66	-10.82	peak
4	0.5100	20.33	12.51	32.84	46.00	-13.16	AVG
5*	2.3060	34.53	13.00	47.53	56.00	-8.47	peak
6	2.3700	20.86	13.00	33.86	46.00	-12.14	AVG

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