

# FCC Part 15C Measurement and Test Report

For

**Amelia World Corporation dba LINSAY**

**16340 West Dixie Highway, North Miami Beach, Florida**

**FCC ID: 2AAC3F-10HD2CORE**

**FCC Rules:** FCC Part 15C

**Product Description:** Tablet PC

**Tested Model:** F-10HD2CORE

**Report No.:** STR13118378I-1

**Tested Date:** 2013-12-02 to 2013-12-20

**Issued Date:** 2013-12-21

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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: 16340 West Dixie Highway, North Miami Beach, Florida

Manufacturer: Amelia World Corporation dba LINSAY  
Address of manufacturer: 16340 West Dixie Highway, North Miami Beach, Florida

General Description of EUT	
Product Name:	Tablet PC
Trade Name:	LINSAY
Model No.:	F-10HD2CORE
Rated Voltage:	DC 3.7V
Power Adaptor:	Model:FY0502000
	Input 100-240V, 50/60Hz, Output DC 5V
Note: The test data is gathered from a production sample, provided by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n-HT20/HT40
Frequency Range:	802.11b, 802.11g, 802.11n-HT20: 2412-2472MHz 802.11n-HT40: 2422-2462MHz
RF Output Power:	7.34dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels	802.11b, 802.11g, 802.11n-HT20: 13 802.11n-HT40: 9
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	2.0dBi
Lowest Internal Frequency	32.768kHz
Device Category:	Portable Device

## 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 C63.4-2003, 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 public notice KDB 558074 D01 V02 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 3/F, Jinbao Commerce Building, Xin'an Fanshen 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, 2442MHz, 2472MHz
TM2	802.11g	2412MHz, 2442MHz, 2472MHz
TM3	802.11n-HT20	2412MHz, 2442MHz, 2472MHz
TM4	802.11n-HT40	2422MHz, 2442MHz, 2462MHz

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

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

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

## 2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§ 15.203; § 15.247(b)(4)(i)	Antenna Requirement	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)(d)	Radiated Emission	Compliant
§ 15.247(d)	Band Edge (Out of Band Emissions)	Compliant
§ 15.207(a)	Conducted Emission	Compliant

N/A: not applicable

### **3. RF Exposure**

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#### **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**

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### **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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

### 5.3 Test Procedure

According to the KDB 558074 D01 v03r01, the test method of power spectral density as below:

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- Set the VBW  $\geq 3 \text{ RBW}$ .
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 5.4 Environmental Conditions

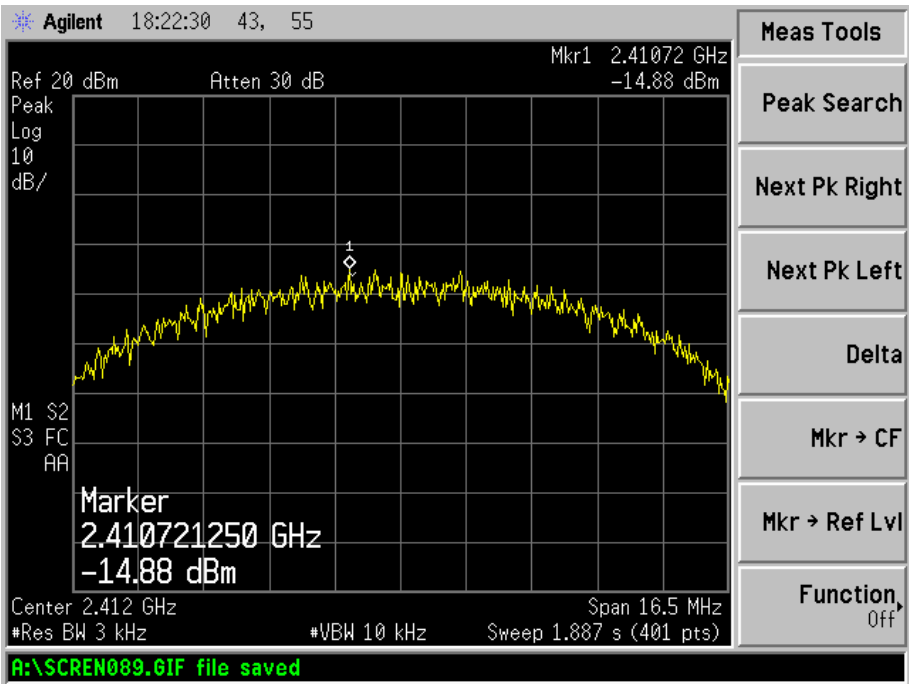
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

## 5.5 Summary of Test Results/Plots

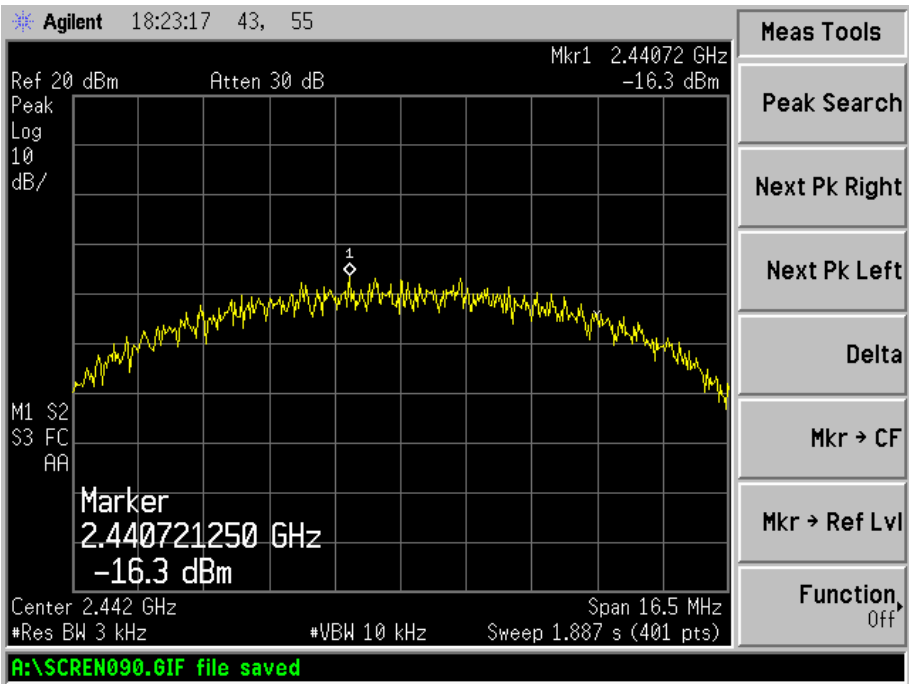
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-14.88	8
	2442	-16.30	8
	2472	-17.04	8
802.11g	2412	-22.59	8
	2442	-23.45	8
	2472	-24.68	8
802.11n HT20	2412	-23.11	8
	2442	-23.89	8
	2472	-24.79	8
802.11n HT40	2422	-25.04	8
	2442	-24.34	8
	2462	-24.99	8

Please refer to the following test plots:

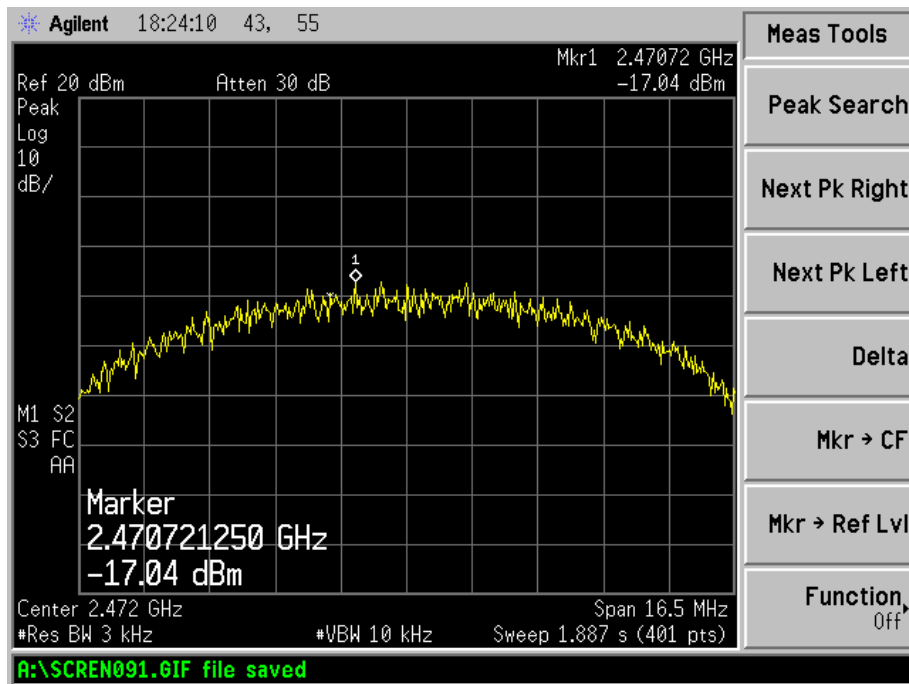
802.11b-Low Channel



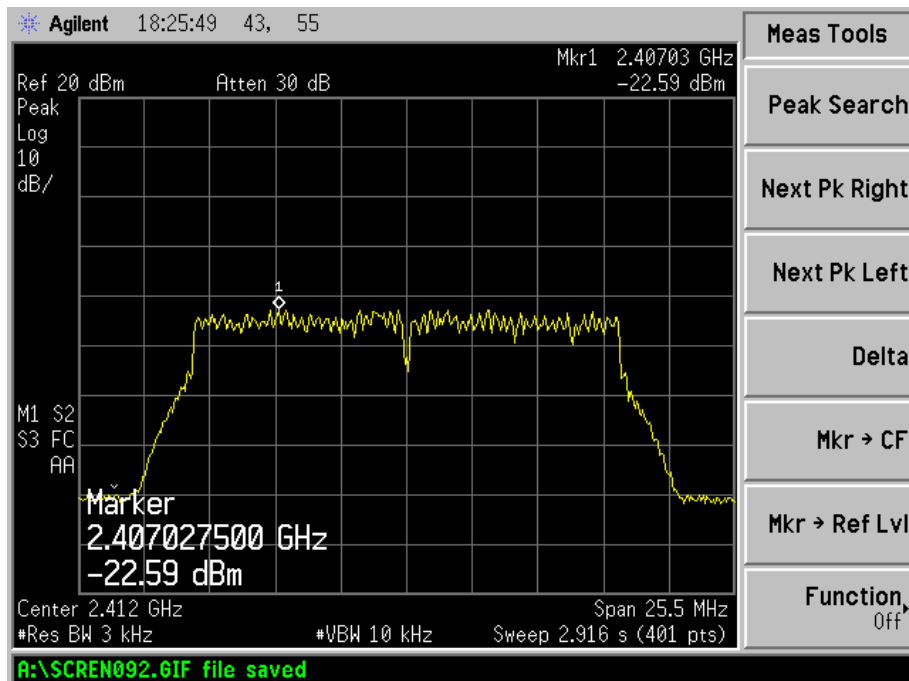
802.11b-Middle Channel



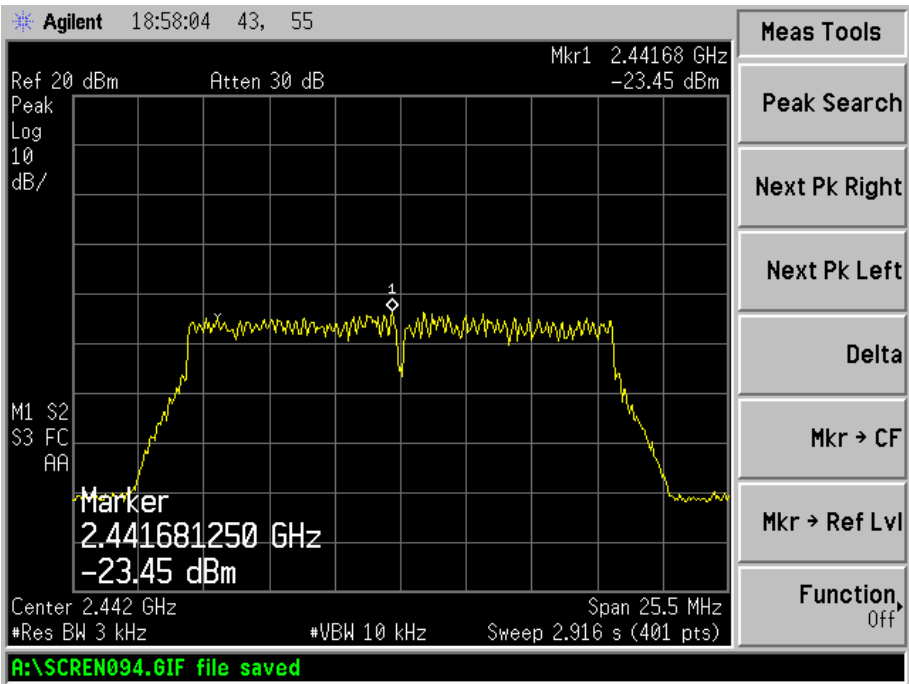
## 802.11b-High Channel



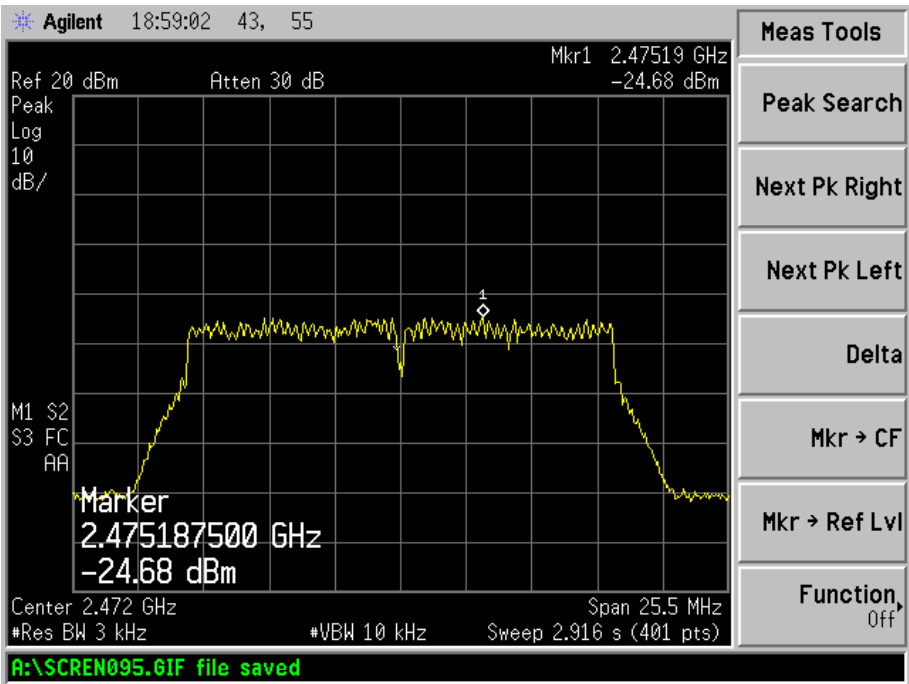
## 802.11g-Low Channel



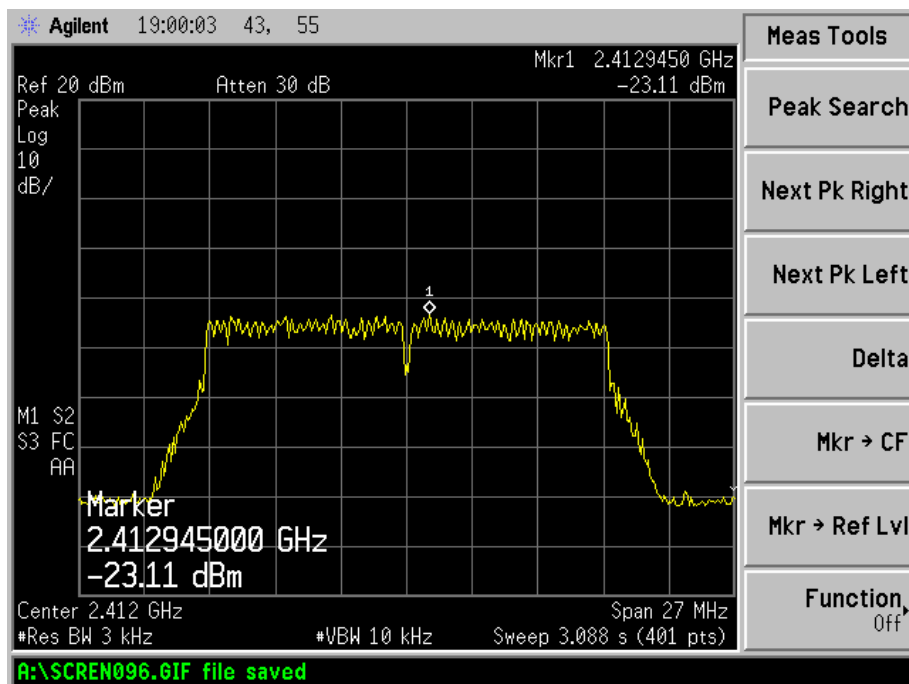
802.11g-Middle Channel



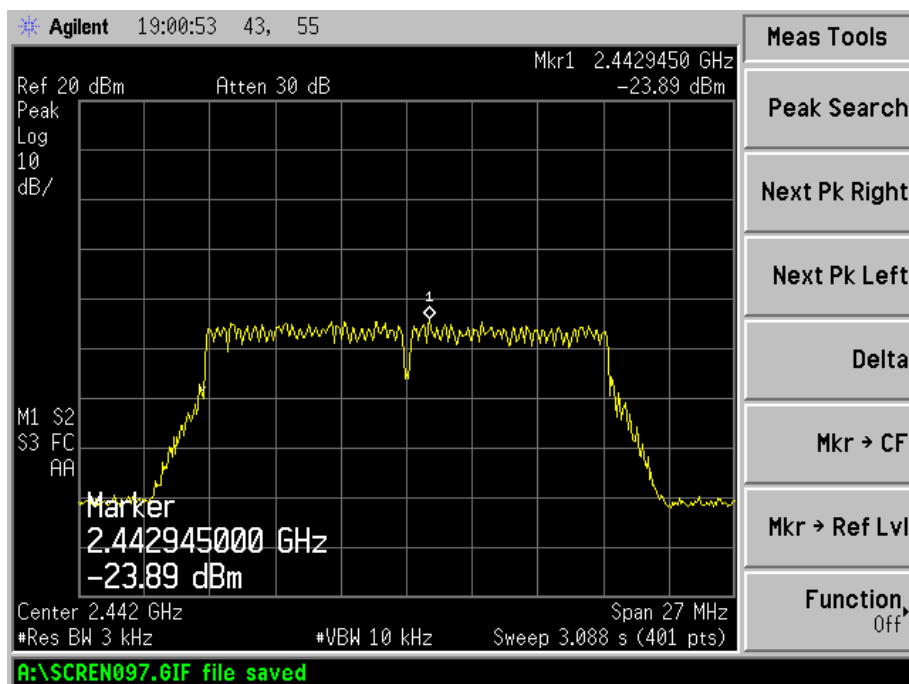
802.11g-High Channel



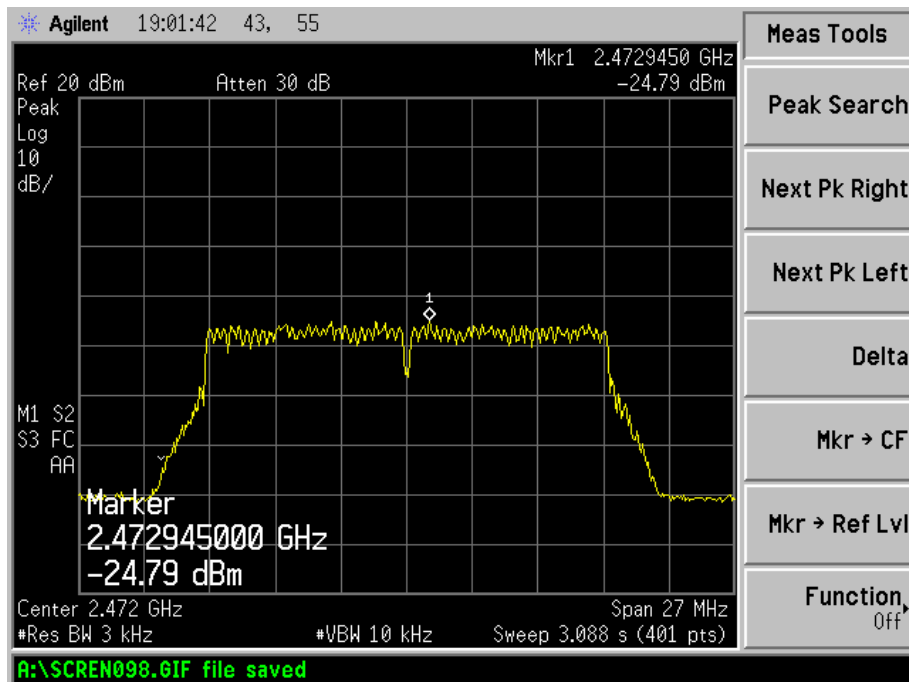
## 802.11n-HT20-Low Channel



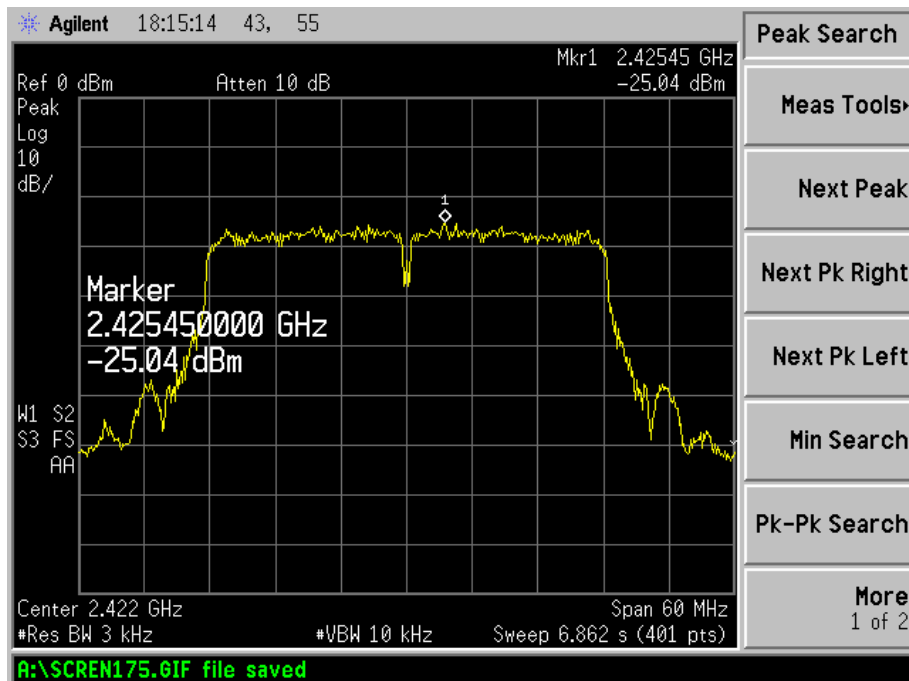
## 802.11n-HT20-Middle Channel



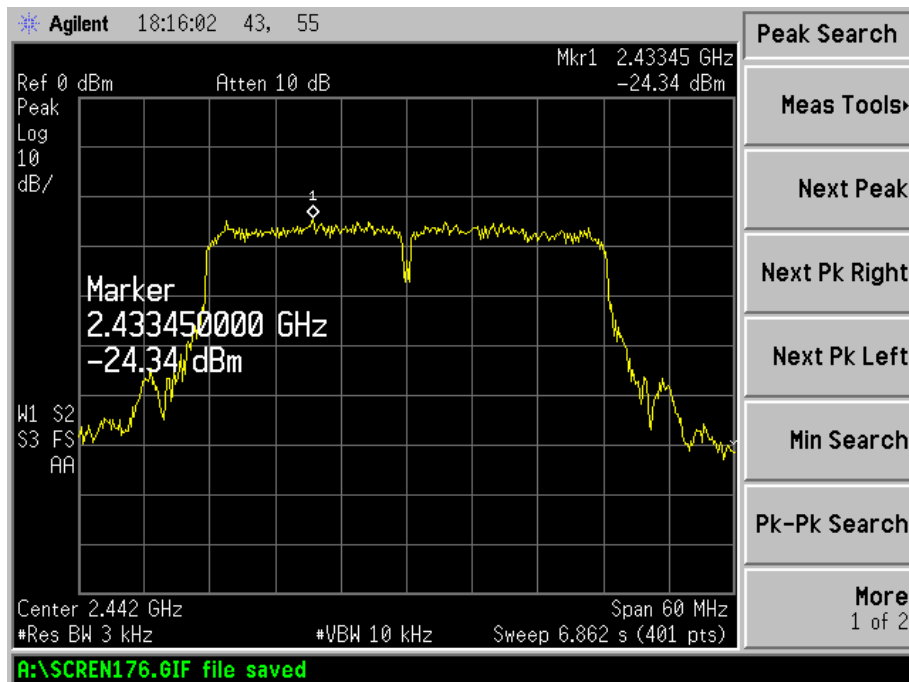
## 802.11n-HT20-High Channel



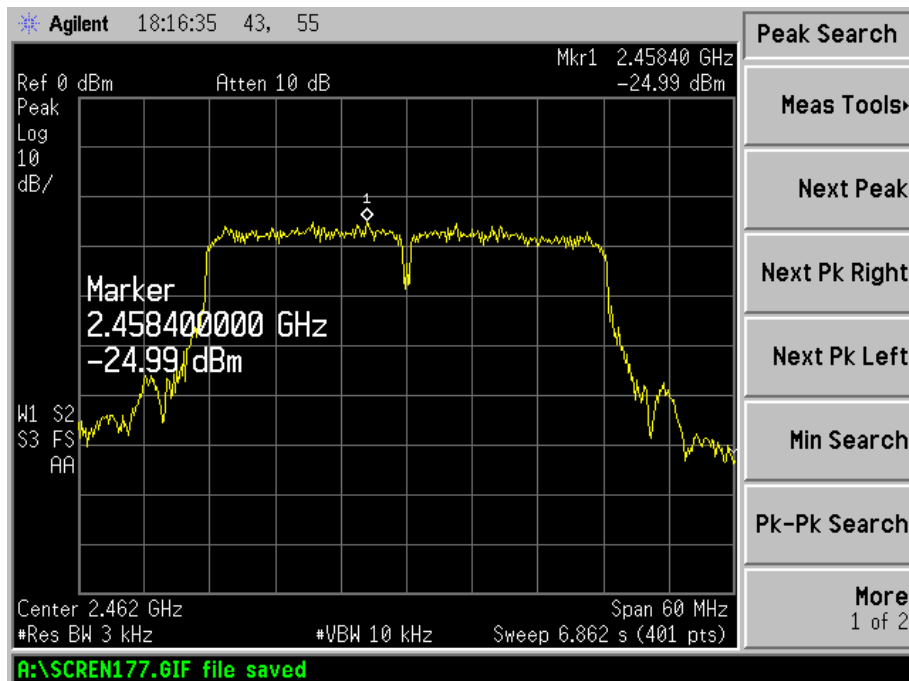
## 802.11n-HT40-Low Channel



## 802.11n-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	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

### 6.3 Test Procedure

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 frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

### 6.4 Environmental Conditions

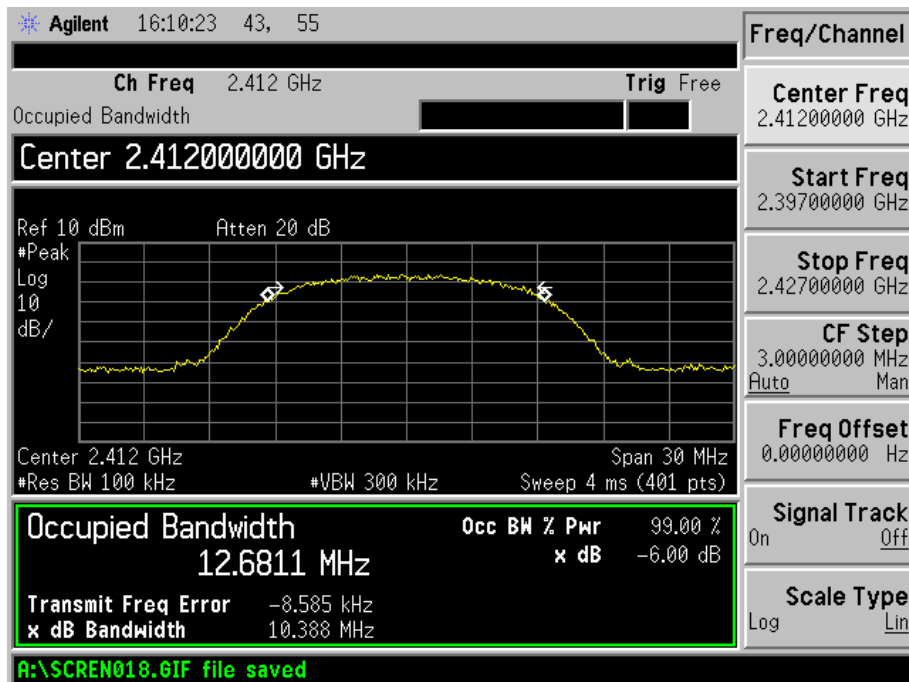
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

**6.5 Summary of Test Results/Plots**

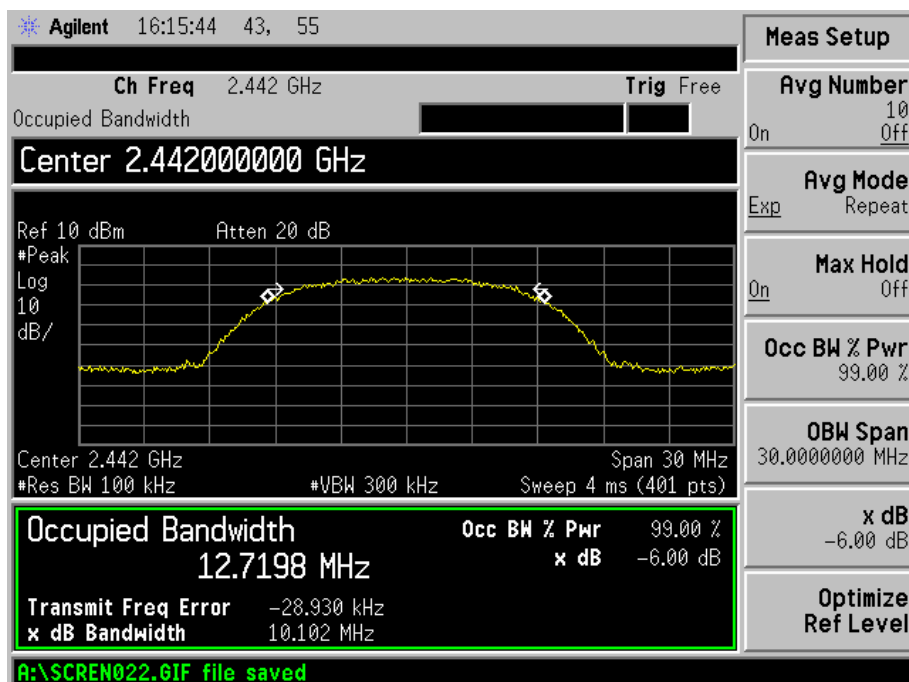
<b>Test Mode</b>	<b>Test Channel MHz</b>	<b>6 dB Bandwidth kHz</b>	<b>Limit kHz</b>
802.11b	2412	10388	500
	2442	10102	500
	2472	10156	500
802.11g	2412	16490	500
	2442	16610	500
	2472	16613	500
802.11n-HT20	2412	17824	500
	2442	17743	500
	2472	17747	500
802.11n-HT40	2422	36.363	500
	2442	36.368	500
	2462	36.275	500

Please refer to the following test plots:

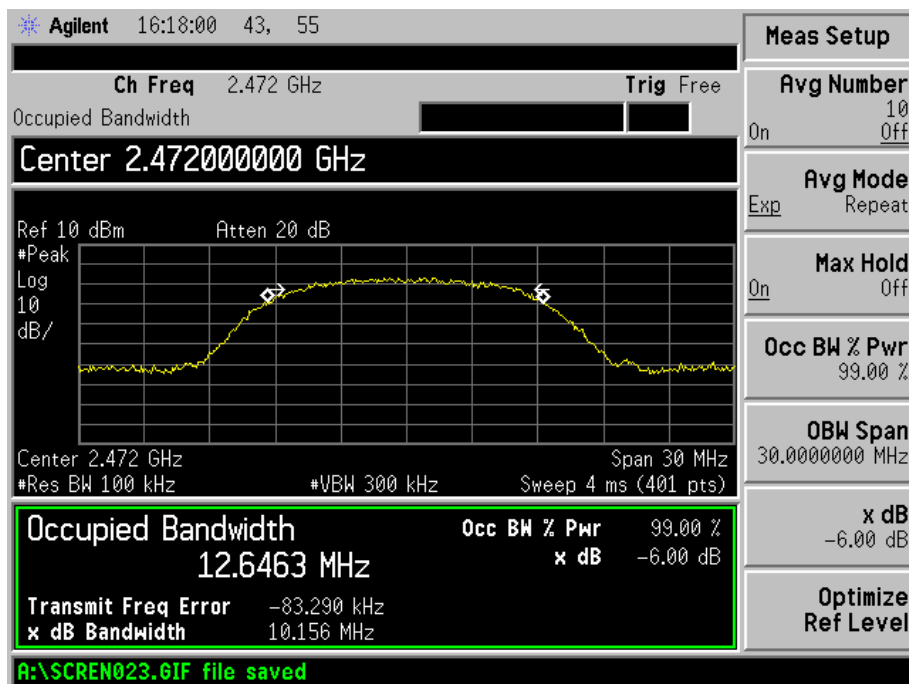
## 802.11b-Low Channel



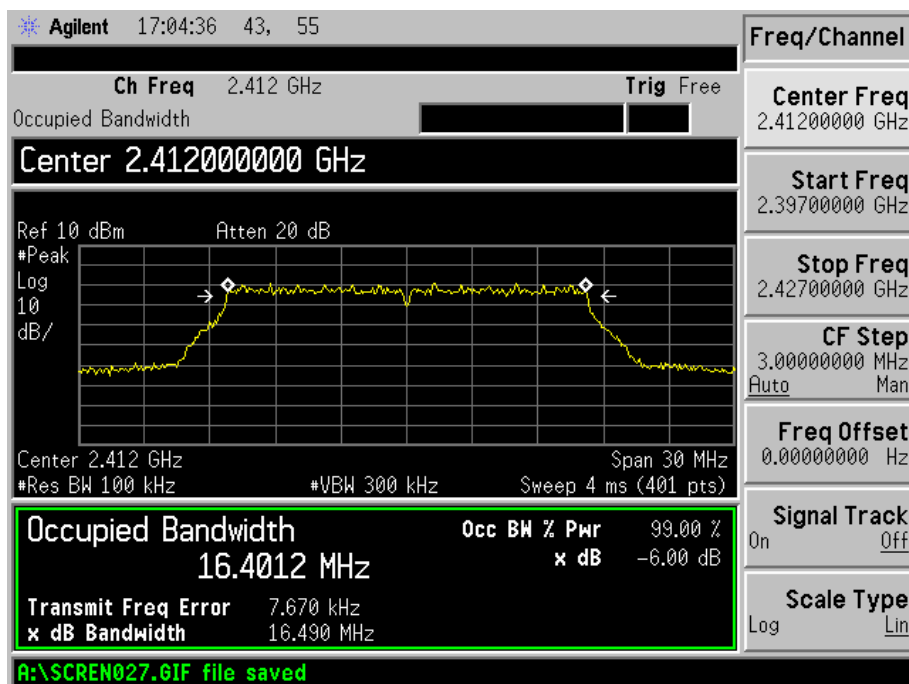
## 802.11b-Middle Channel



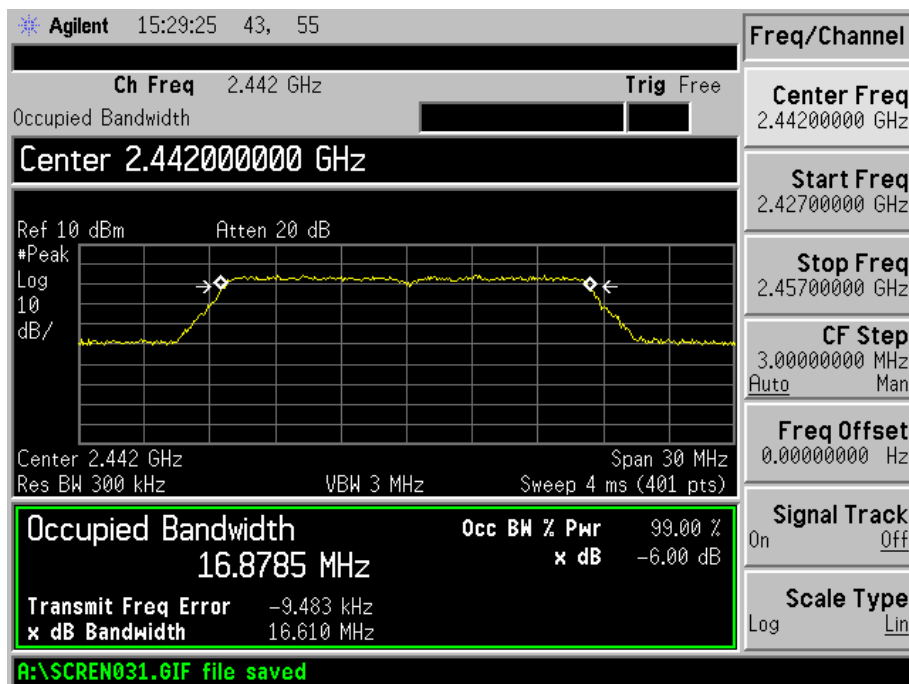
## 802.11b-High Channel



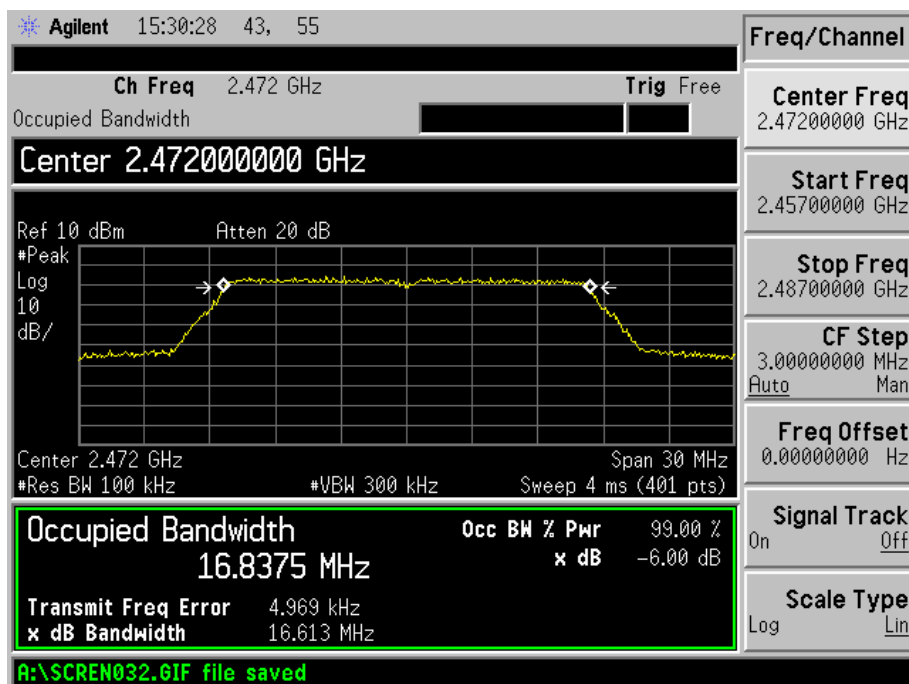
## 802.11g-Low Channel



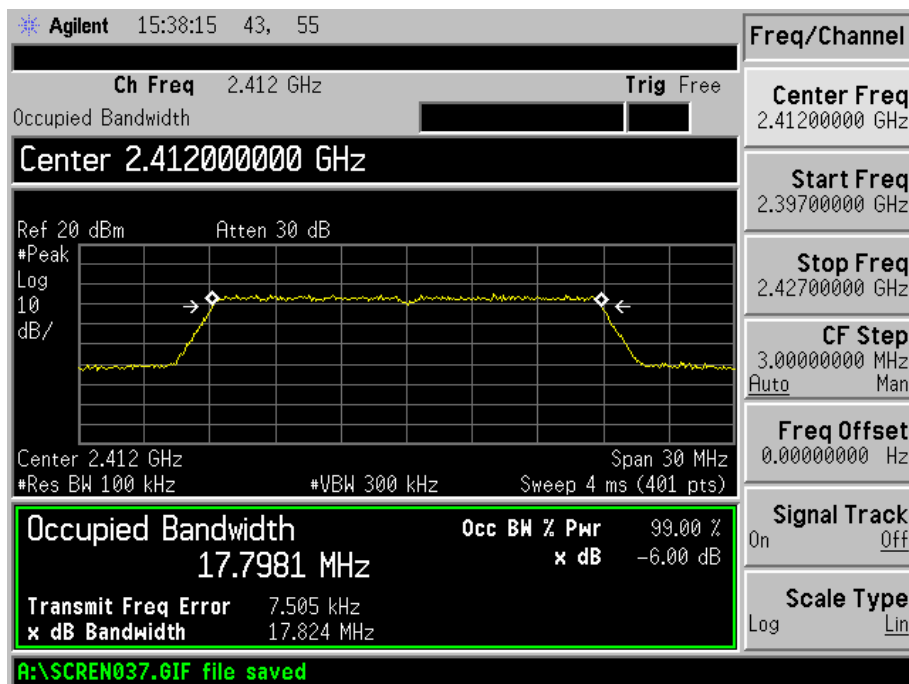
## 802.11g-Middle Channel



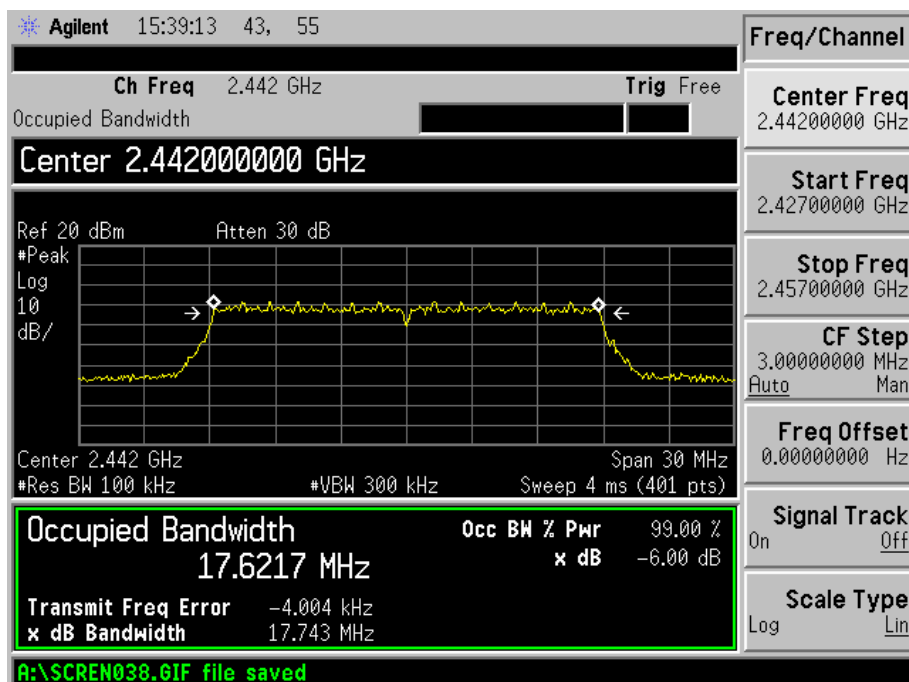
## 802.11g-High Channel



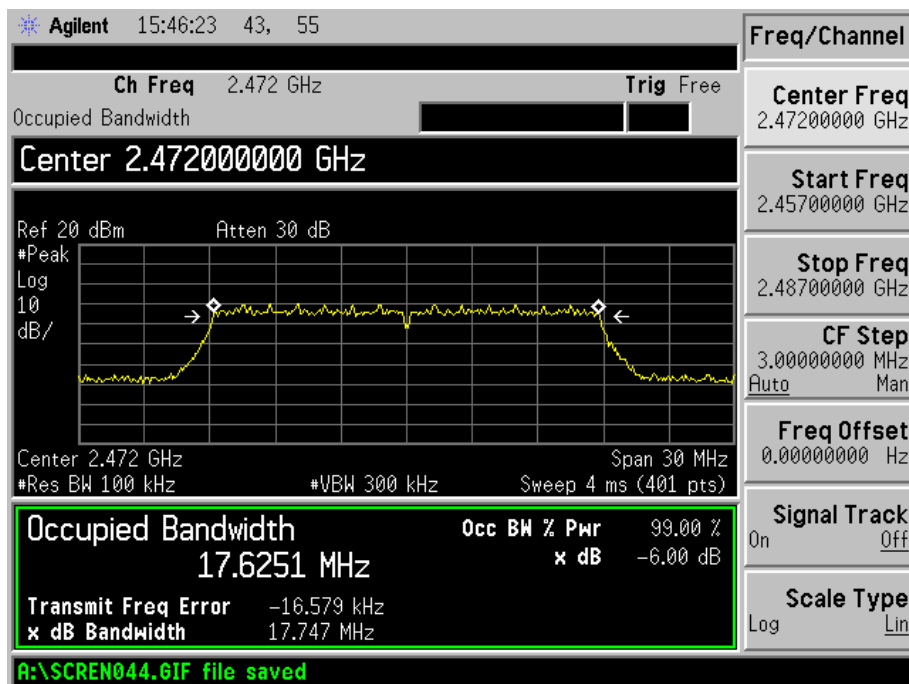
## 802.11n-HT20-Low Channel



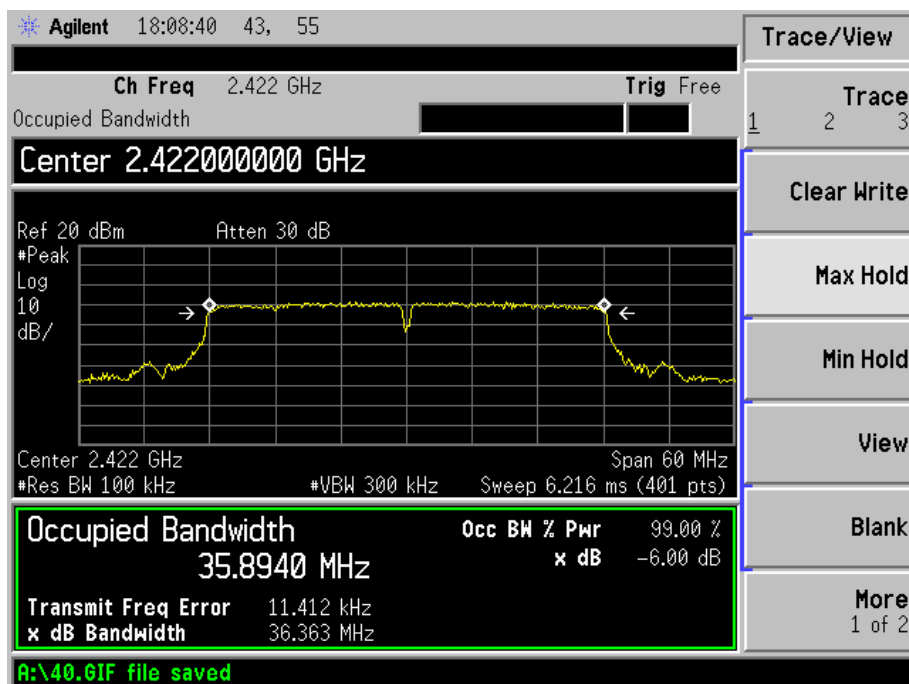
## 802.11n-HT20-Middle Channel



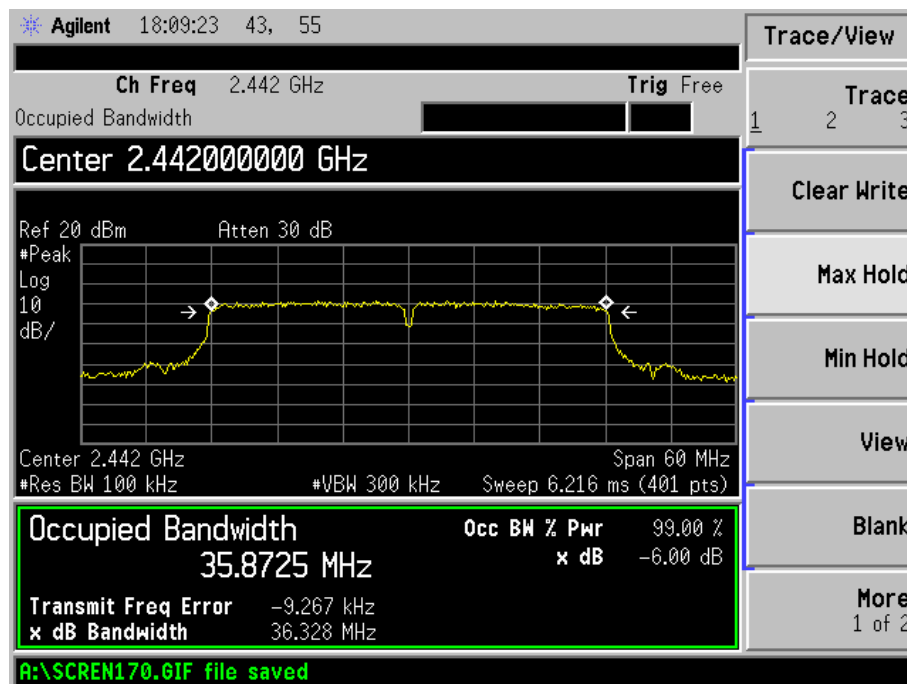
## 802.11n-HT20-High Channel



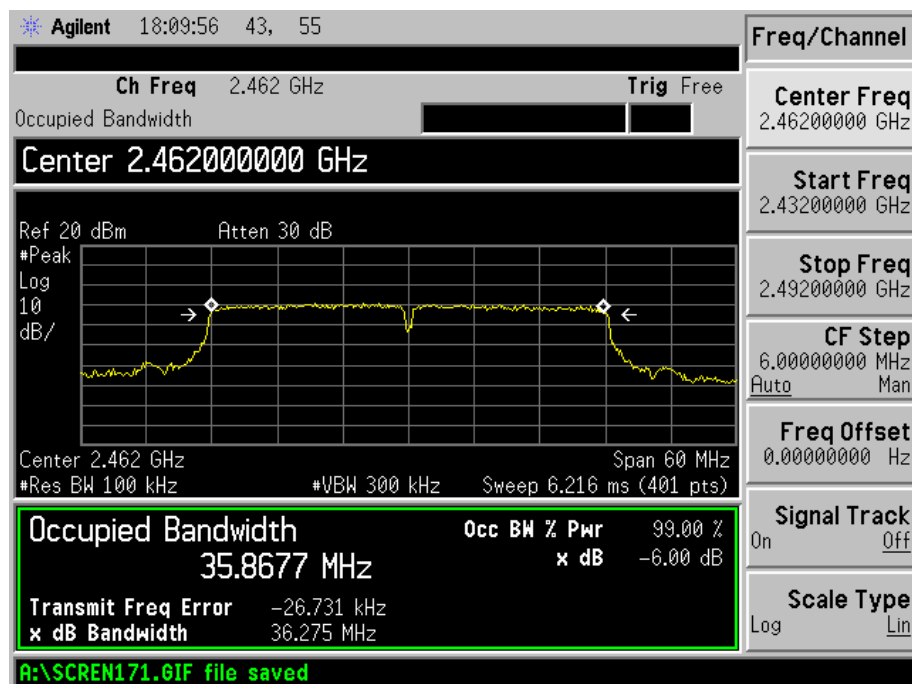
## 802.11n-HT40-Low Channel



## 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 Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Spectrum Analyzer	Agilent	E4402B	US41192821	2013-05-07	2014-05-06
Attenuator	ATTEN	ATS100-4-20	/	2013-05-07	2014-05-06

**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

### 7.3 Test Procedure

According to section 15.247(b)-power output of the KDB 558074 D01 v03r01, 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 the RBW = 1 MHz.
2. Set the VBW  $\geq$  3 RBW
3. Set the span  $\geq$  1.5 x DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

### 7.4 Environmental Conditions

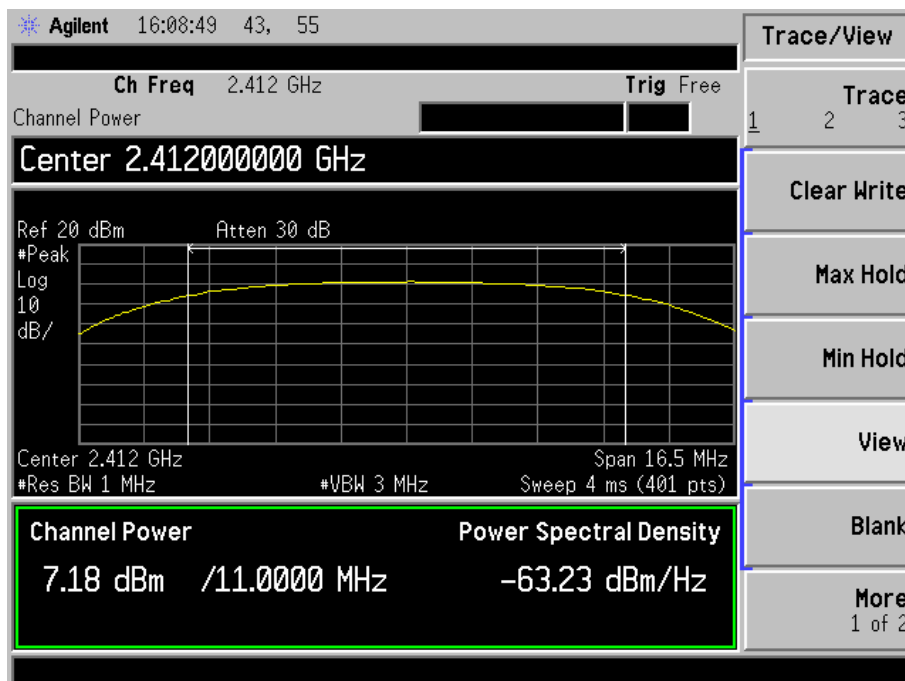
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

**7.5 Summary of Test Results/Plots**

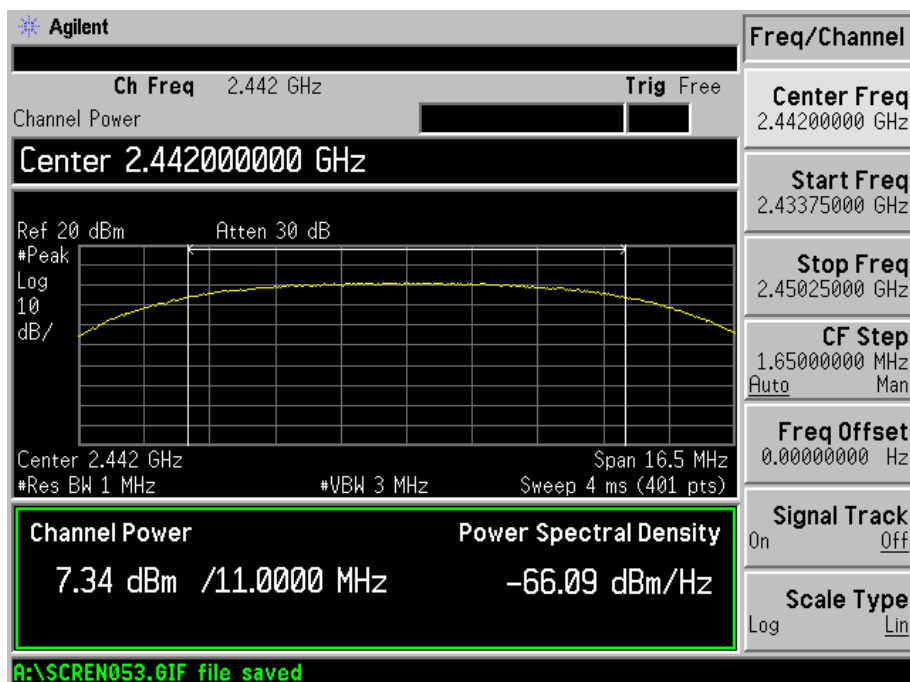
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_1Mbps	2412	7.18	5.22	1000
	2442	7.34	5.42	1000
	2472	6.75	4.73	1000
802.11g_6Mbps	2412	6.52	4.49	1000
	2442	6.85	4.84	1000
	2472	6.39	4.36	1000
802.11n HT20_MCS0	2412	6.36	4.33	1000
	2442	6.75	4.73	1000
	2472	6.53	4.50	1000
802.11n HT40_MCS0	2422	6.77	4.75	1000
	2442	6.42	4.39	1000
	2462	6.32	4.29	1000

Please refer to the following test plots:

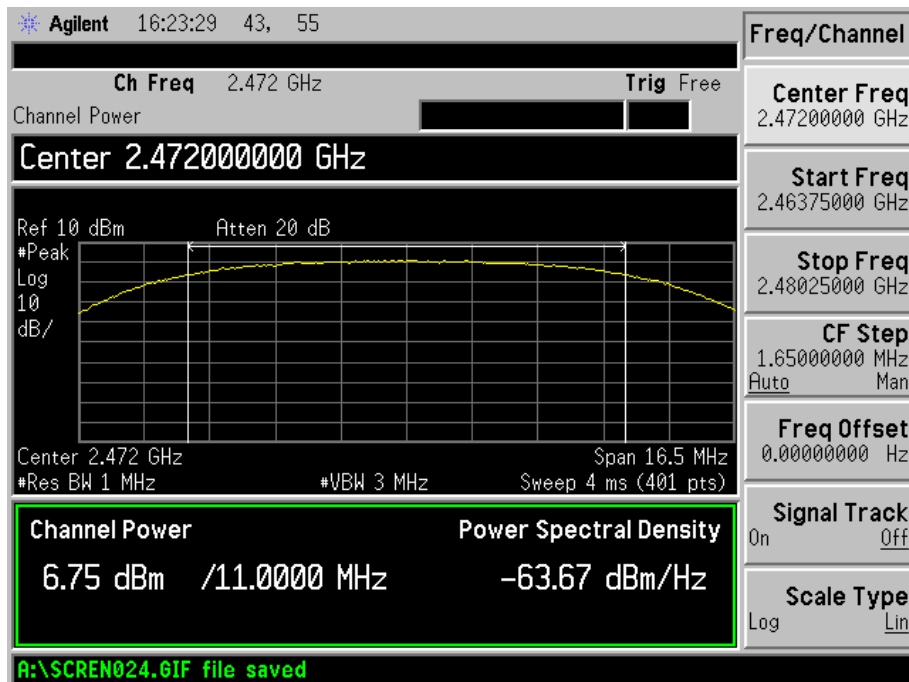
## 802.11b-1Mbps-Low Channel



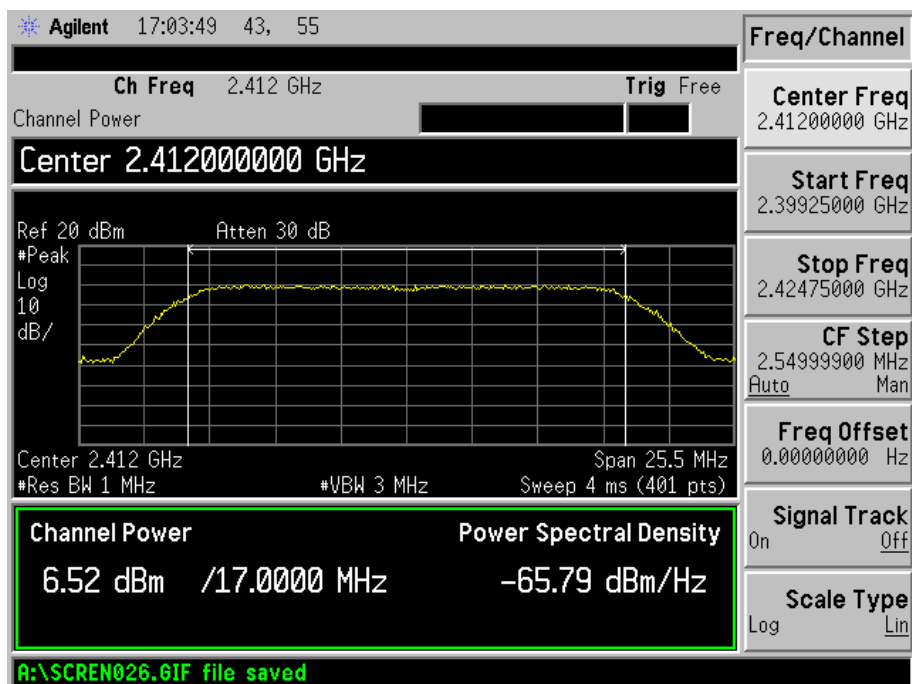
## 802.11b -1Mbps-Middle Channel



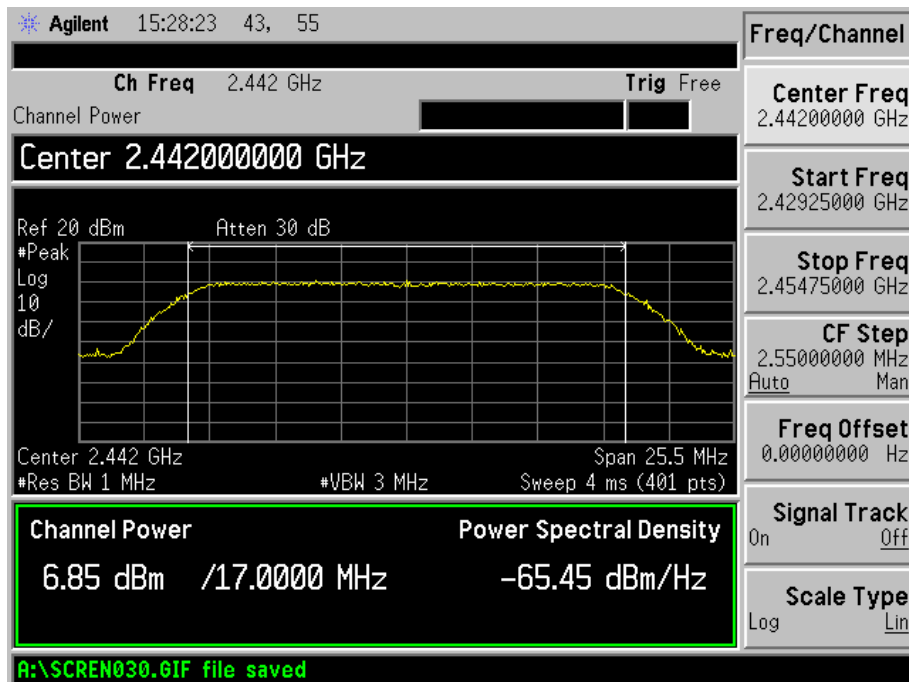
## 802.11b -1Mbps-High Channel



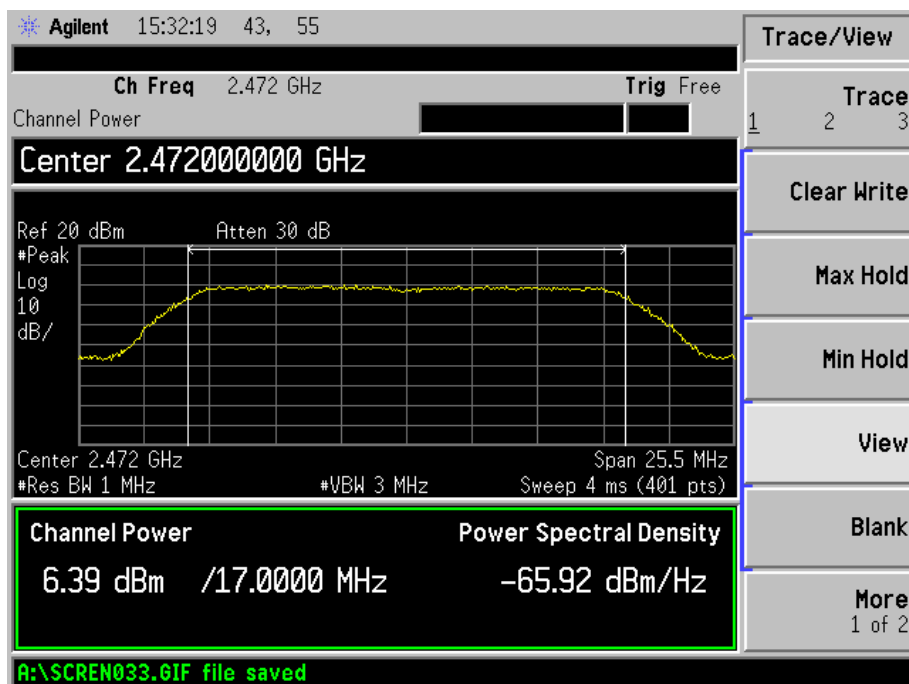
## 802.11g-6Mbps-Low Channel



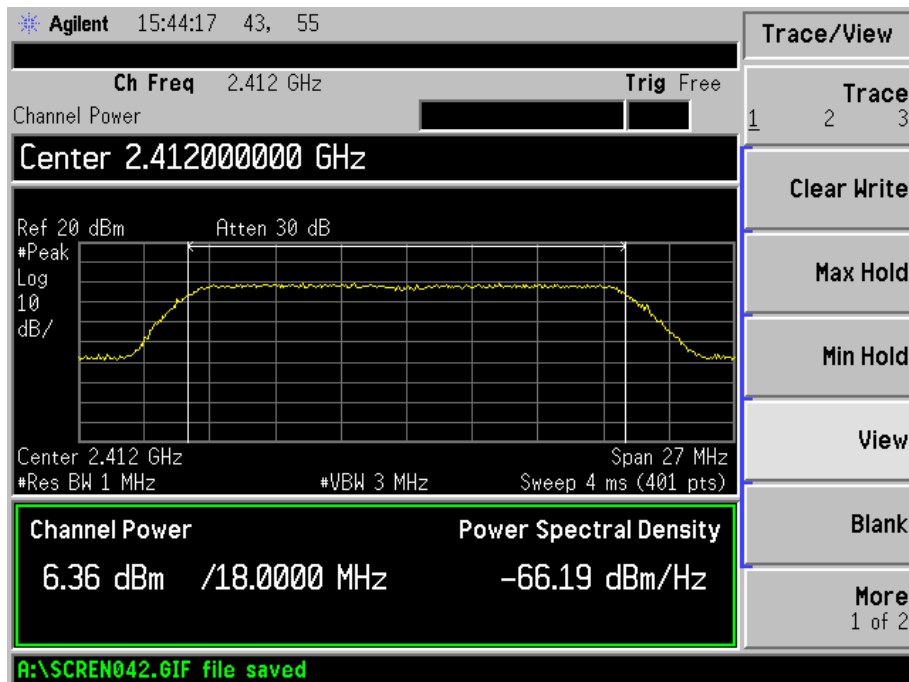
## 802.11g-6Mbps-Middle Channel



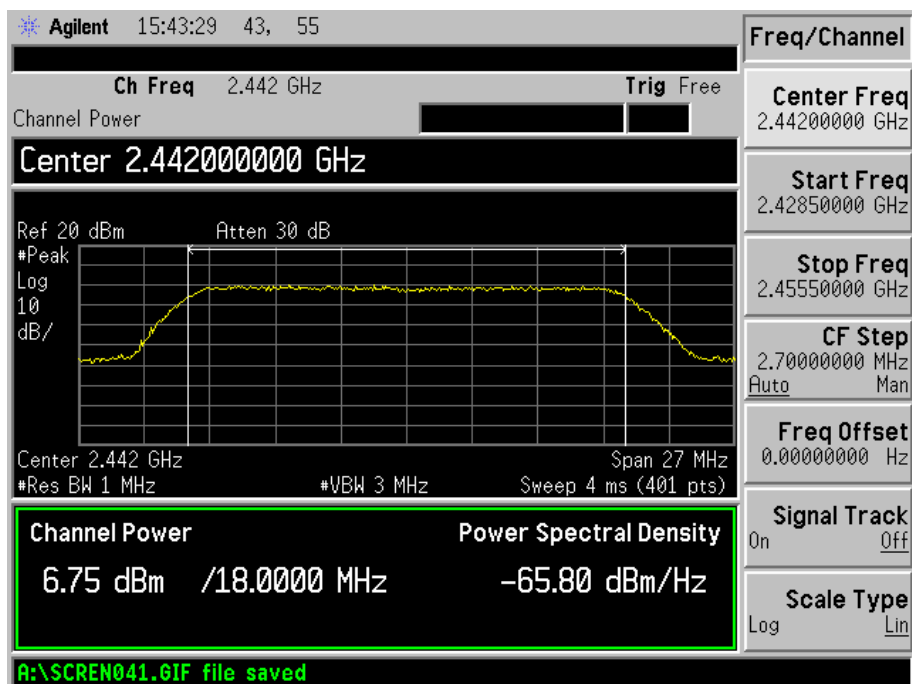
## 802.11g-6Mbps-High Channel



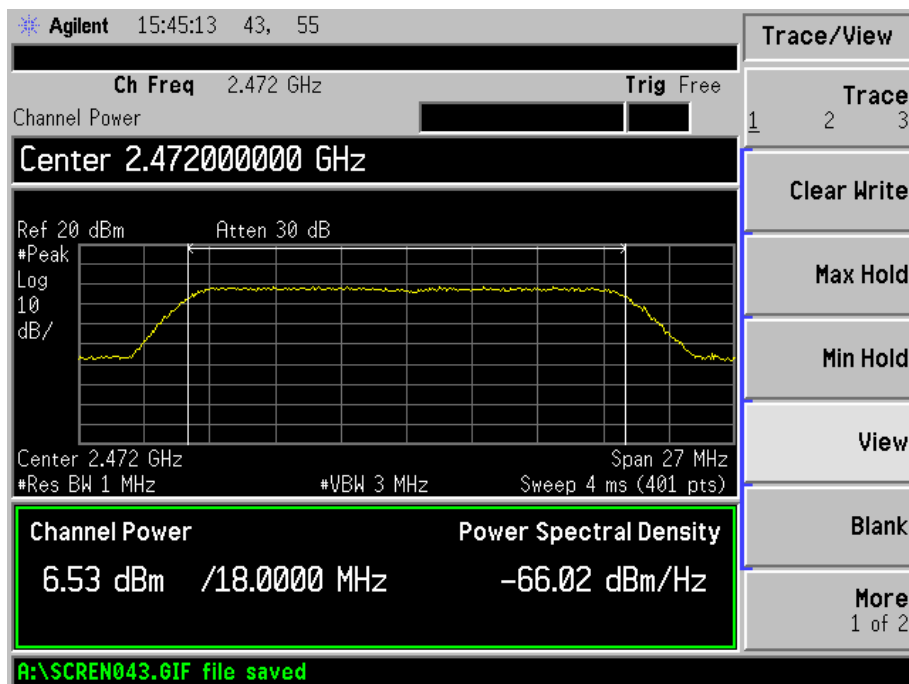
## 802.11n-HT20-MCS0-Low Channel



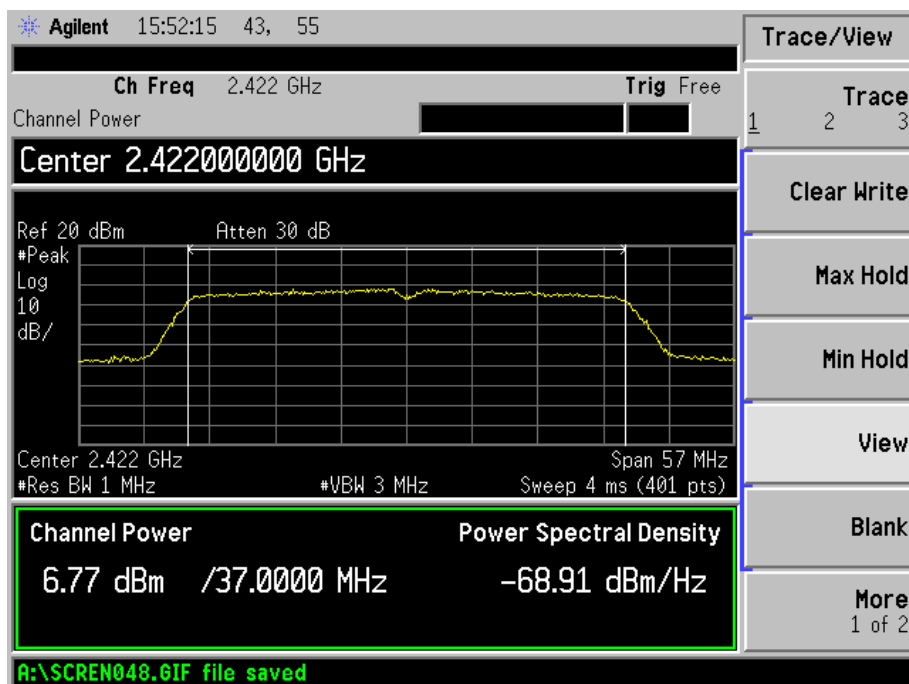
## 802.11n-HT20-MCS0-Middle Channel



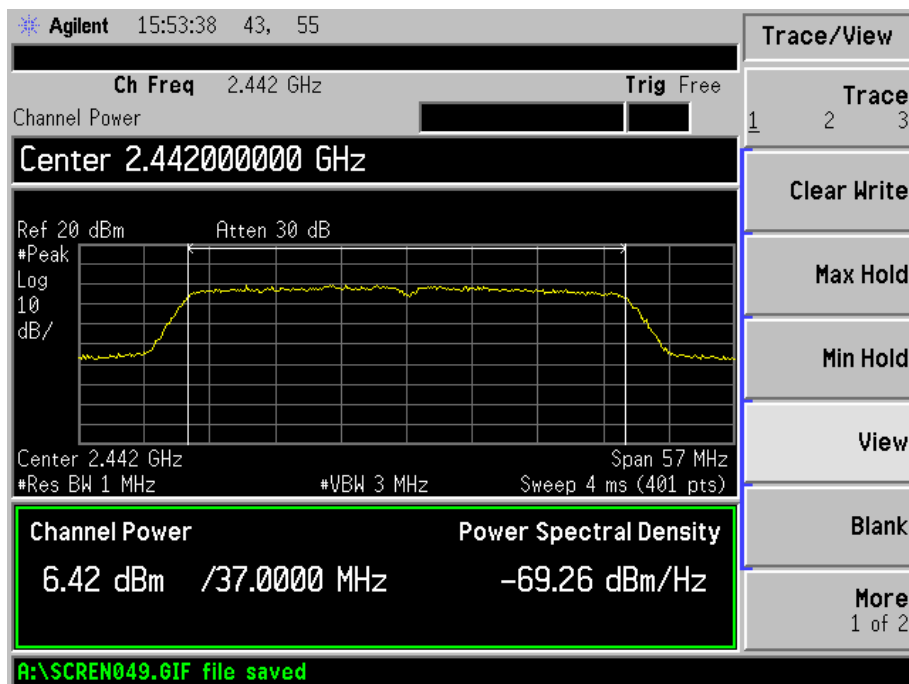
## 802.11n-HT20-MCS0-High Channel



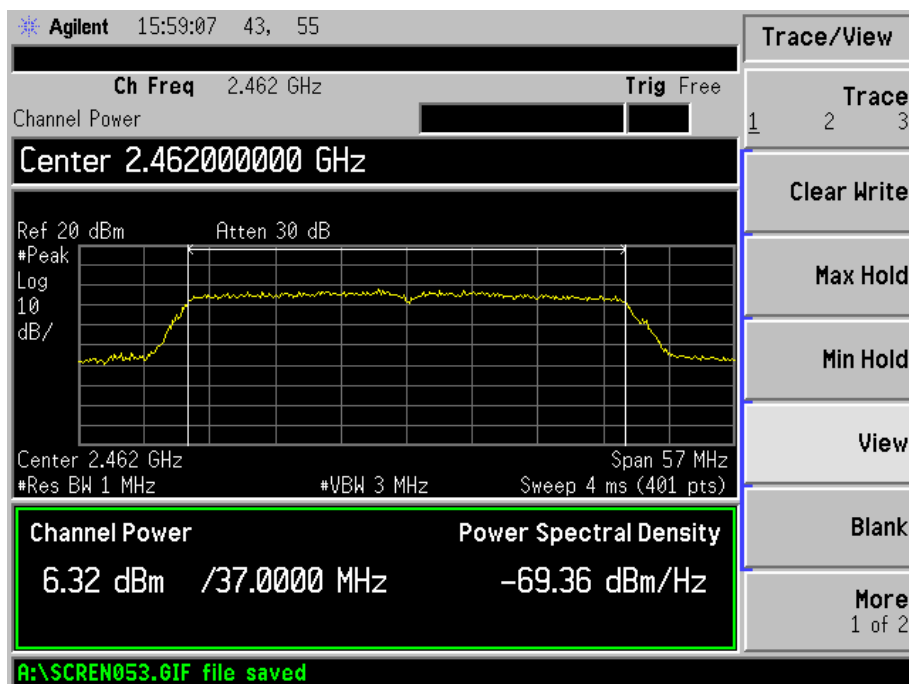
## 802.11n-HT40-MCS0-Low Channel



## 802.11n-HT40-MCS0-Middle Channel



## 802.11n-HT40-MCS0-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  $\pm 5.10$  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	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19
Horn Antenna	ETS	3116B	00088203	2013-04-20	2014-04-19

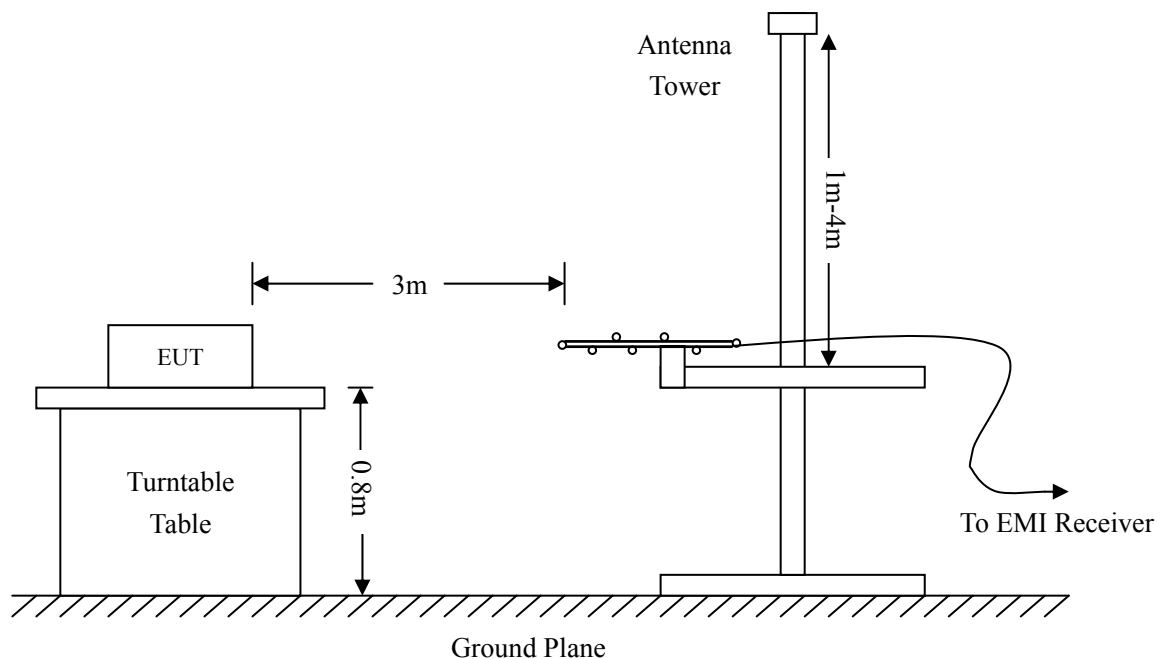
**Statement of Traceability:** All calibrations have been performed per the NVLAP requirements traceable to the NIST.

## 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

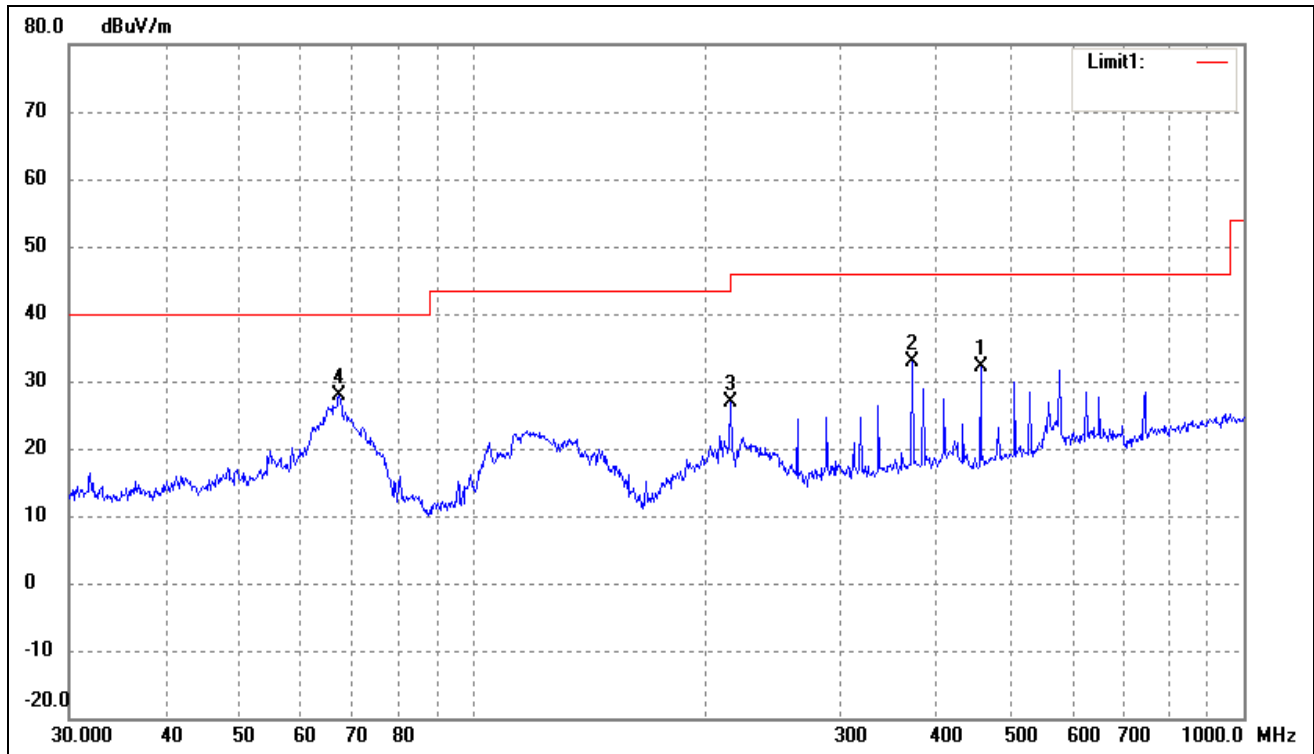
Temperature:	25 °C
Relative Humidity:	52%
ATM Pressure:	1012 mbar

## 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 margin of:

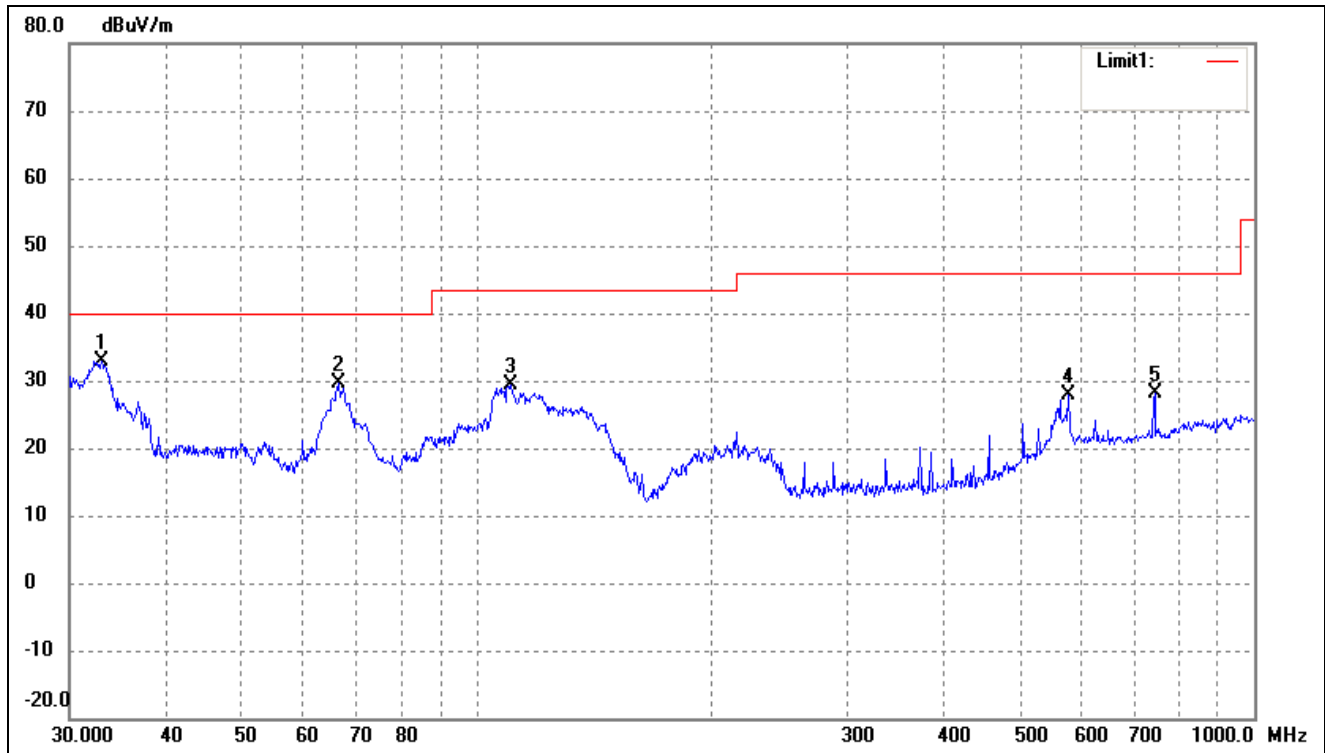
**-4.29 dB at 66.4989 MHz in the Horizontal polarization for 802.11g High Channel , 9kHz to 25 GHz,  
3 Meters**

*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-10HD2CORE**Operating Condition: 802.11b Transmitting Low Channel-2412MHz**Comment: With adapter**Test Specification: Horizontal*

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	455.9057	37.34	-5.18	32.16	46.00	-13.84	267	100	peak
2	372.0045	39.63	-6.71	32.92	46.00	-13.08	335	100	peak
3	216.0240	37.48	-10.61	26.87	46.00	-19.13	167	100	peak
4*	67.2022	39.04	-11.24	27.80	40.00	-12.20	360	100	peak

Test Specification: Vertical

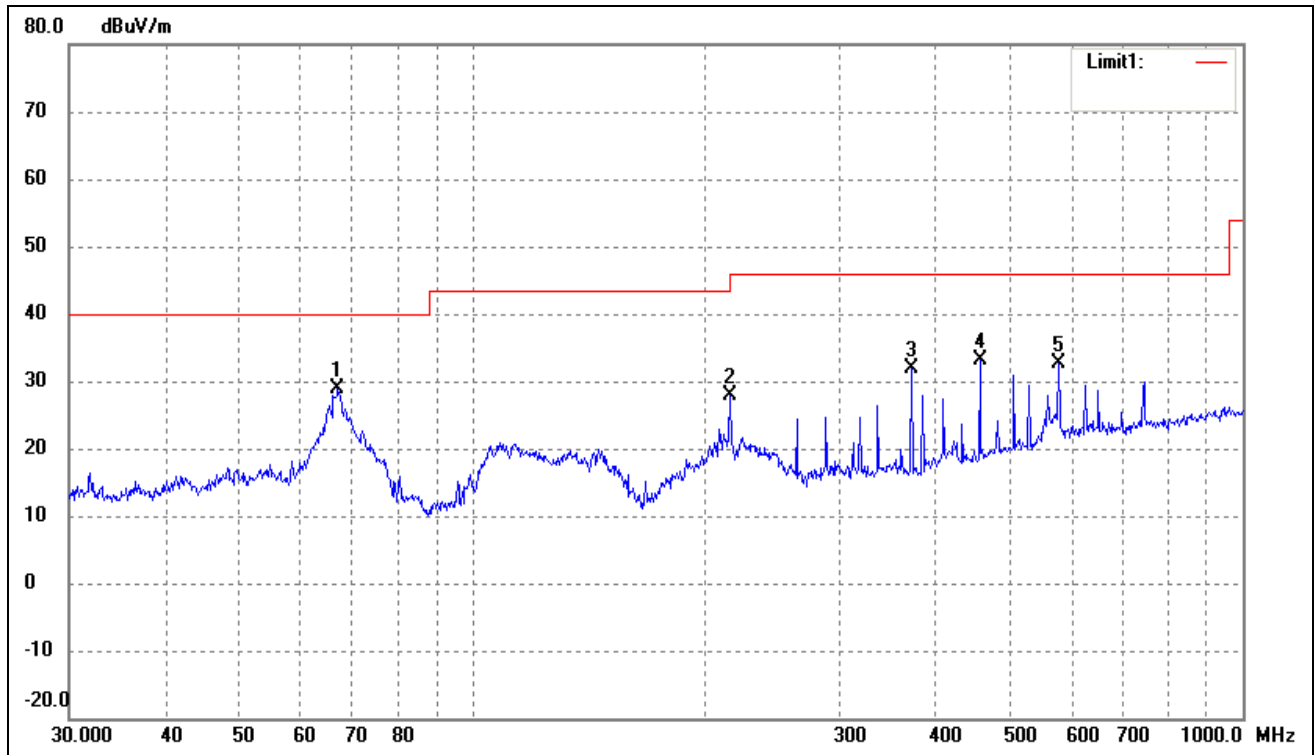


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	32.9791	43.97	-10.99	32.98	40.00	-7.02	267	100	peak
2	66.4989	40.64	-10.93	29.71	40.00	-10.29	115	100	peak
3	110.5687	40.18	-10.74	29.44	43.50	-14.06	360	100	peak
4	576.6443	30.70	-2.74	27.96	46.00	-18.04	360	100	peak
5	744.8660	28.91	-0.74	28.17	46.00	-17.83	272	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2442MHz

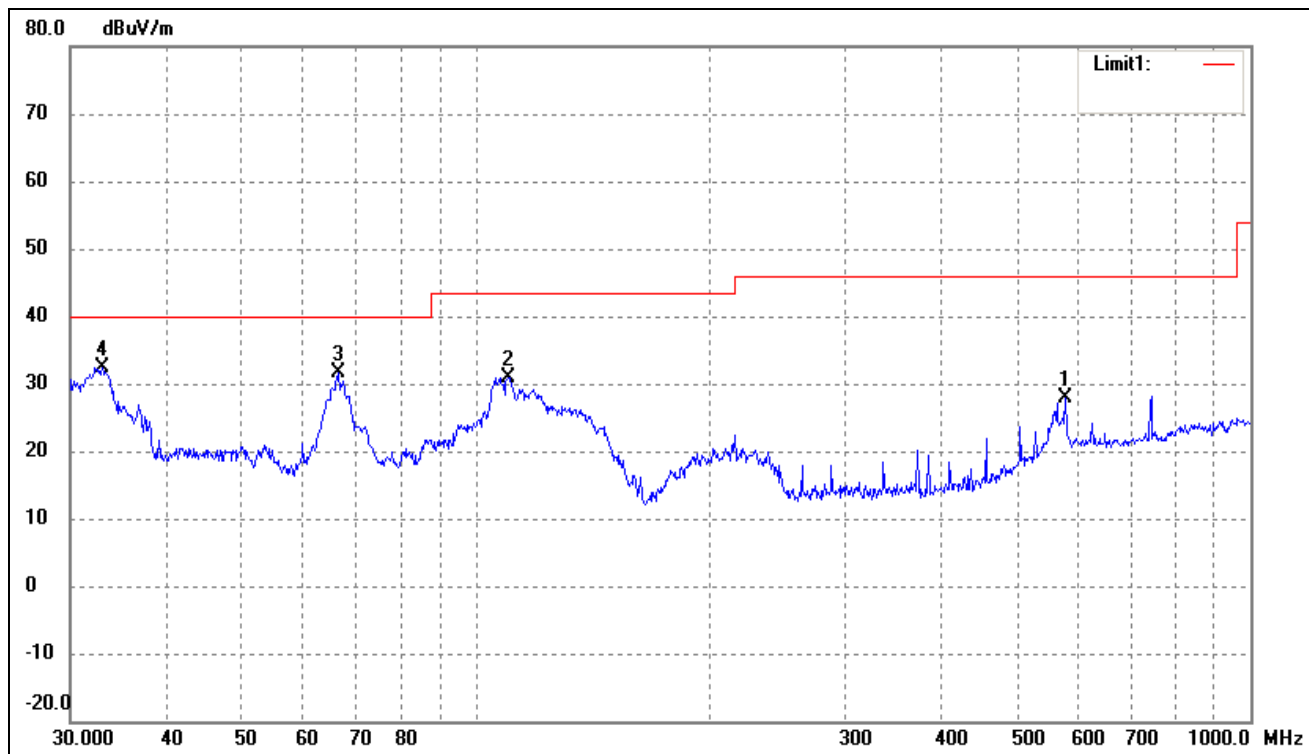
Comment: With adapter

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	66.9668	40.11	-11.14	28.97	40.00	-11.03	272	100	peak
2	216.0240	38.48	-10.61	27.87	46.00	-18.13	186	100	peak
3	372.0045	38.63	-6.71	31.92	46.00	-14.08	335	100	peak
4	455.9057	38.34	-5.18	33.16	46.00	-12.84	360	100	peak
5	576.6443	35.43	-2.74	32.69	46.00	-13.31	360	100	peak

Test Specification: Vertical

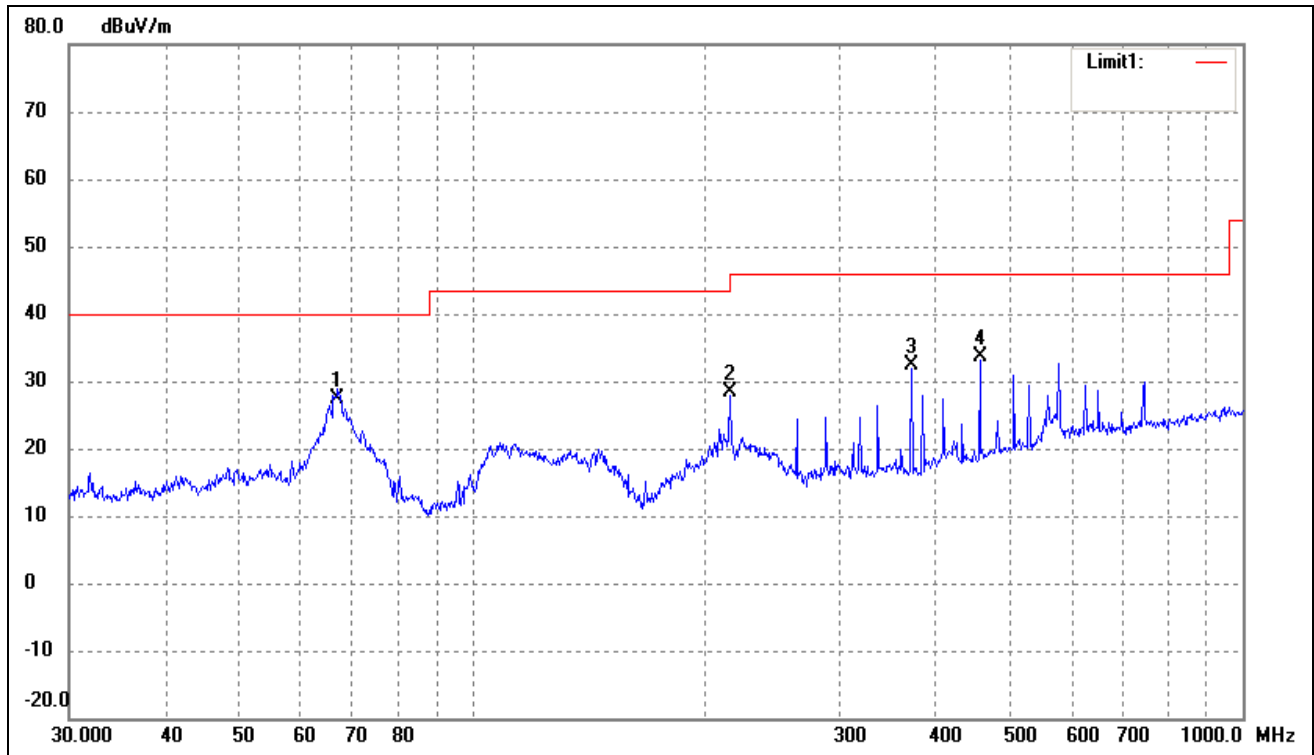


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	576.6443	30.70	-2.74	27.96	46.00	-18.04	116	100	peak
2	110.1816	41.63	-10.67	30.96	43.50	-12.54	268	100	peak
3	66.4989	42.64	-10.93	31.71	40.00	-8.29	178	100	peak
4*	32.9791	43.47	-10.99	32.48	40.00	-7.52	332	100	peak

Operating Condition: 802.11b Transmitting High Channel-2472MHz

Comment: With adapter

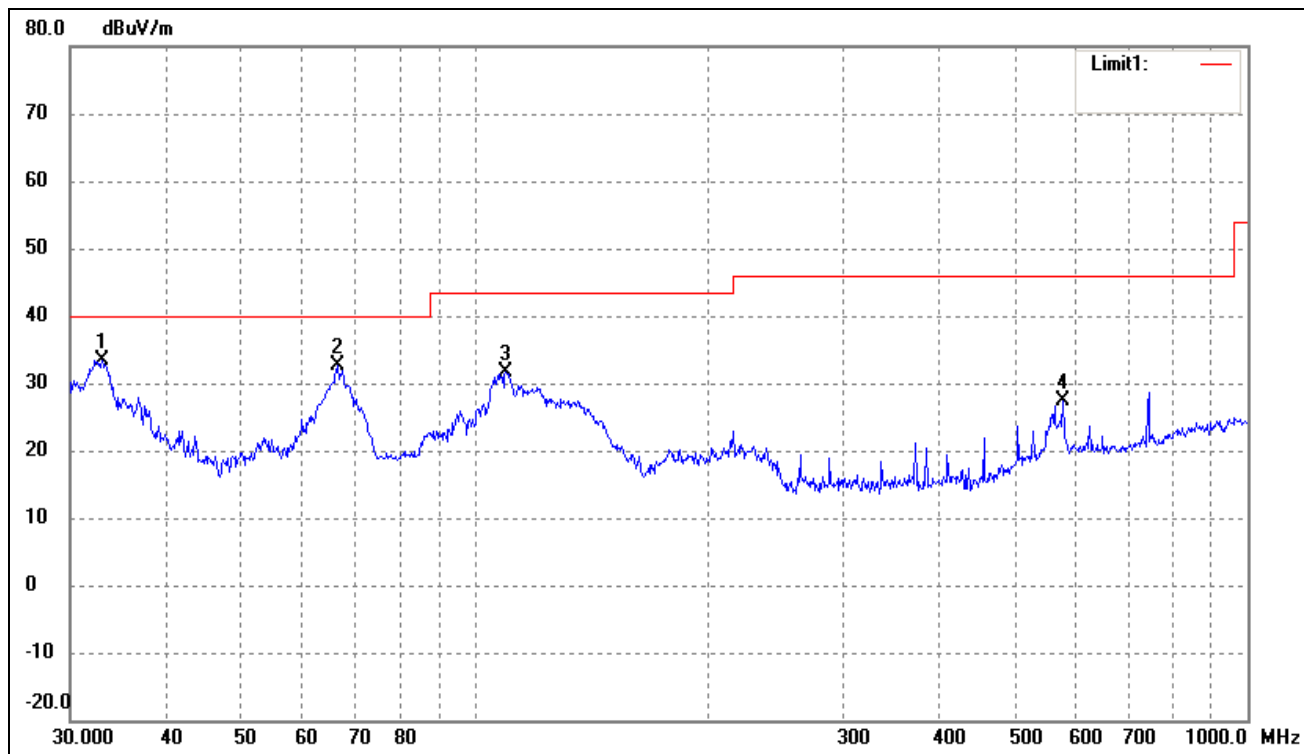
Test Specification: Horizontal



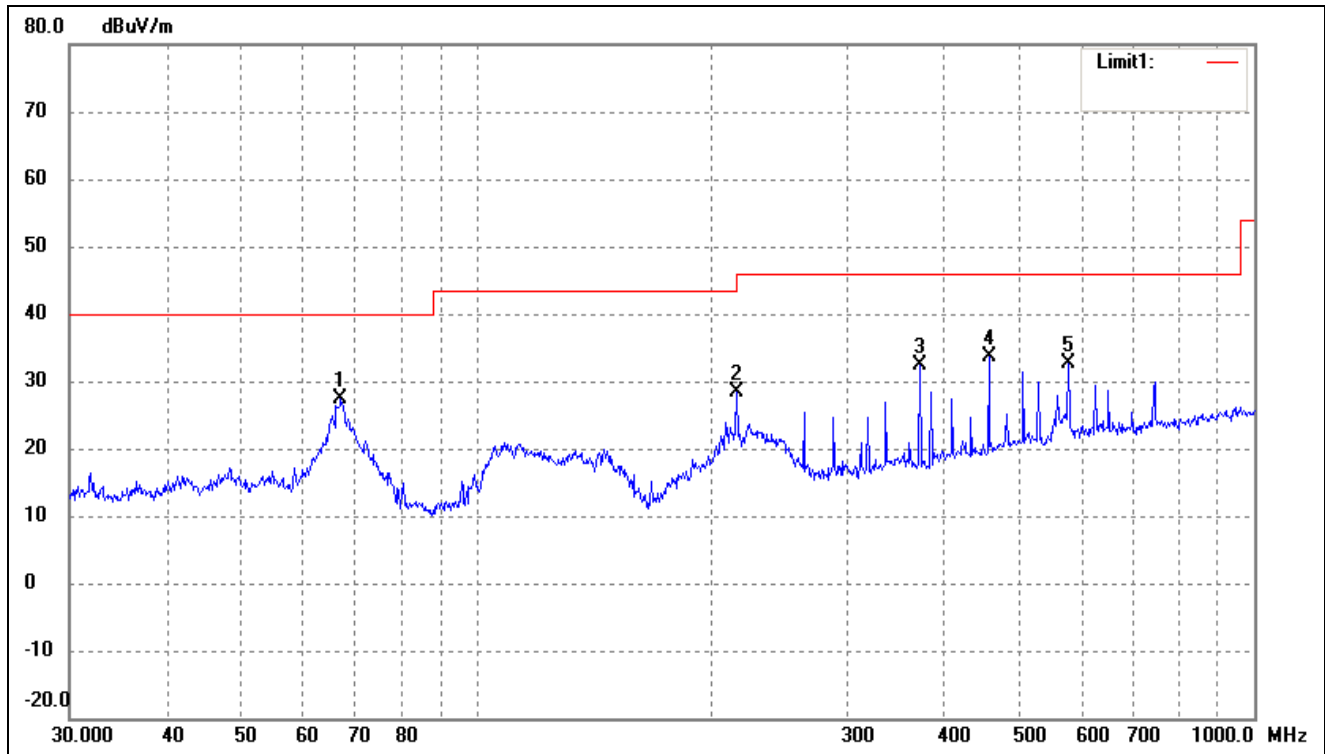
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	66.9668	38.61	-11.14	27.47	40.00	-12.53	360	100	peak
2	216.0240	38.98	-10.61	28.37	46.00	-17.63	274	100	peak
3	372.0045	39.13	-6.71	32.42	46.00	-13.58	185	100	peak
4*	455.9057	38.84	-5.18	33.66	46.00	-12.34	360	100	peak



Test Specification: Vertical

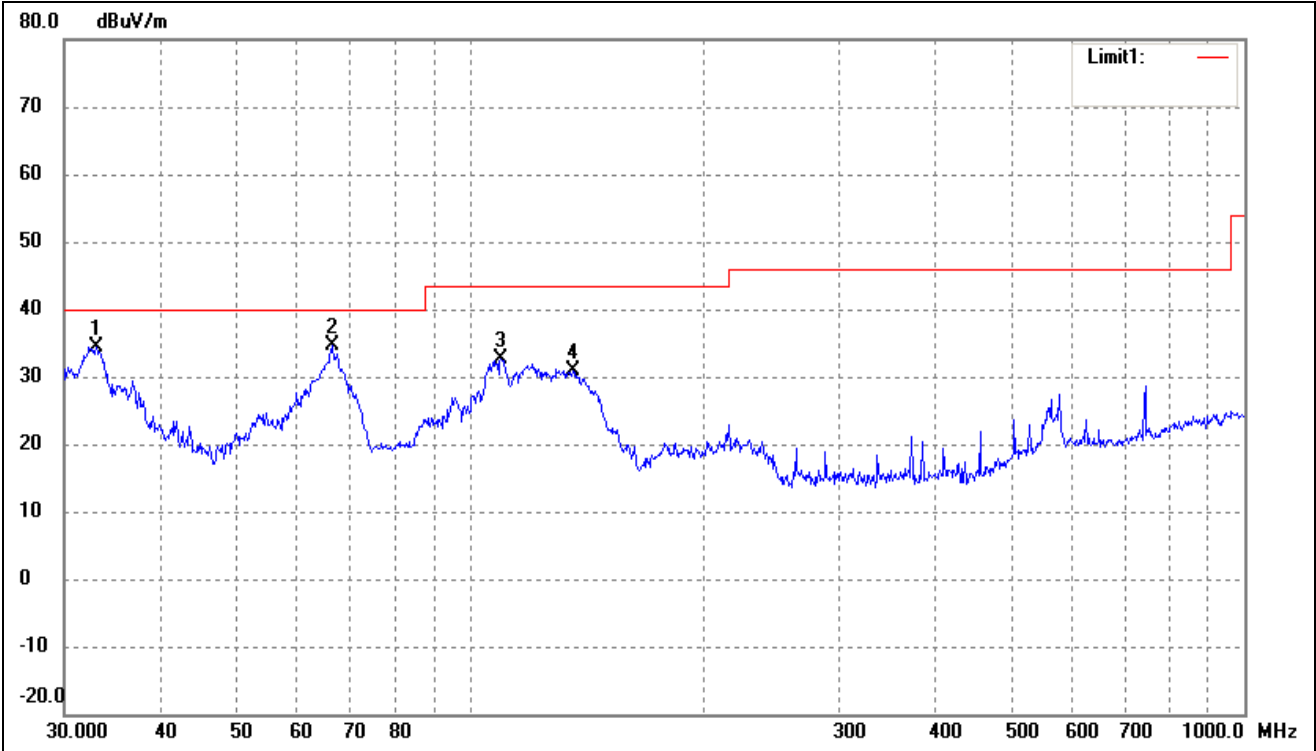


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	32.9791	44.47	-10.99	33.48	40.00	-6.52	274	100	peak
2	66.4989	43.64	-10.93	32.71	40.00	-7.29	264	100	peak
3	109.7960	42.16	-10.64	31.52	43.50	-11.98	289	100	peak
4	576.6443	30.20	-2.74	27.46	46.00	-18.54	360	100	peak

**Plot of Radiated Emissions Test Data (30MHz to 1GHz)***EUT: Tablet PC**Tested Model: F-10HD2CORE**Operating Condition: 802.11g Transmitting Low Channel-2412MHz**Comment: With adapter**Test Specification: Horizontal*

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	66.9668	38.61	-11.14	27.47	40.00	-12.53	346	100	peak
2	216.0240	38.98	-10.61	28.37	46.00	-17.63	289	100	peak
3	372.0045	39.13	-6.71	32.42	46.00	-13.58	334	100	peak
4*	455.9057	38.84	-5.18	33.66	46.00	-12.34	169	100	peak
5	576.6443	35.43	-2.74	32.69	46.00	-13.31	276	100	peak

Test Specification: Vertical

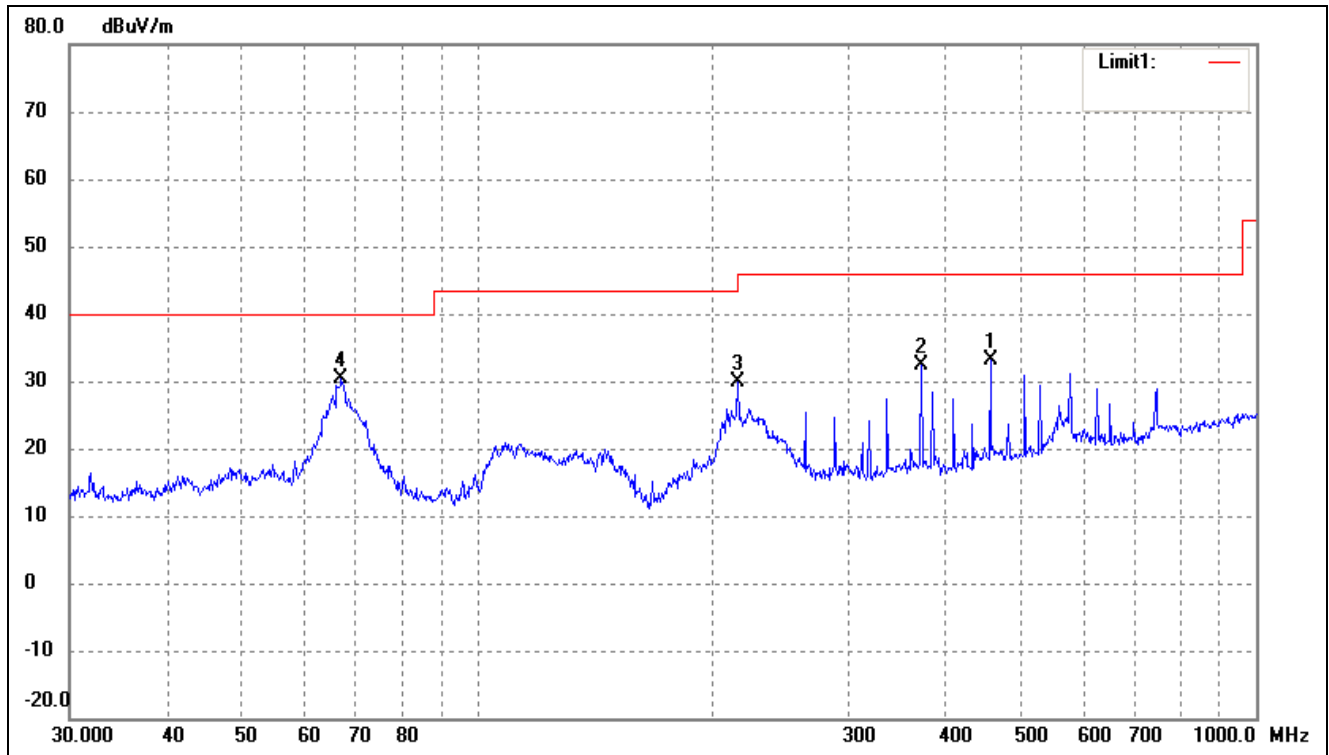


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	32.9791	45.47	-10.99	34.48	40.00	-5.52	147	100	peak
2*	66.4989	45.64	-10.93	34.71	40.00	-5.29	264	100	peak
3	109.7960	43.16	-10.64	32.52	43.50	-10.98	116	100	peak
4	135.9822	44.98	-14.16	30.82	43.50	-12.68	360	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2442MHz

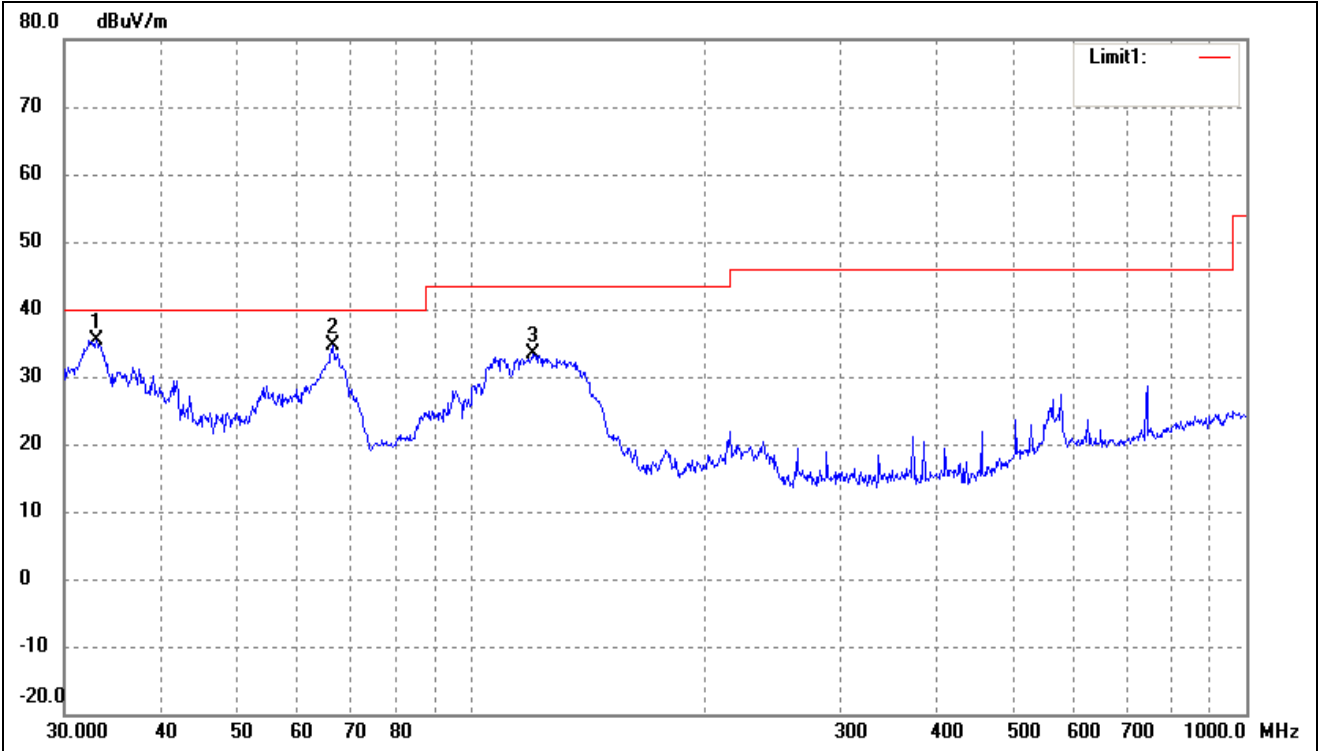
Comment: With adapter

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	455.9057	38.34	-5.18	33.16	46.00	-12.84	276	100	peak
2	372.0045	39.13	-6.71	32.42	46.00	-13.58	185	100	peak
3	216.0240	40.48	-10.61	29.87	46.00	-16.13	336	100	peak
4*	66.9668	41.61	-11.14	30.47	40.00	-9.53	360	100	peak

Test Specification: Vertical

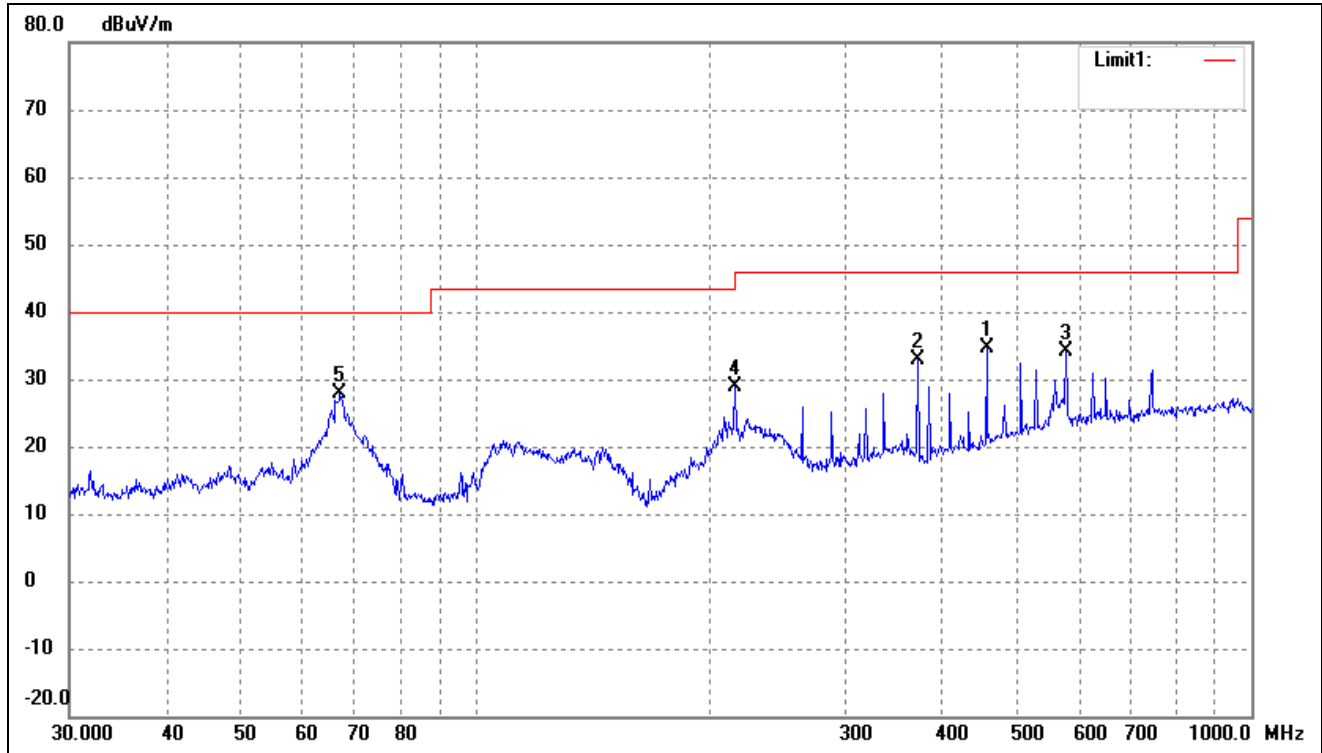


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1*	32.9791	46.47	-10.99	35.48	40.00	-4.52	347	100	peak
2	66.4989	45.64	-10.93	34.71	40.00	-5.29	335	100	peak
3	120.6991	45.77	-12.47	33.30	43.50	-10.20	270	100	peak

Operating Condition: 802.11g Transmitting High Channel-2472MHz

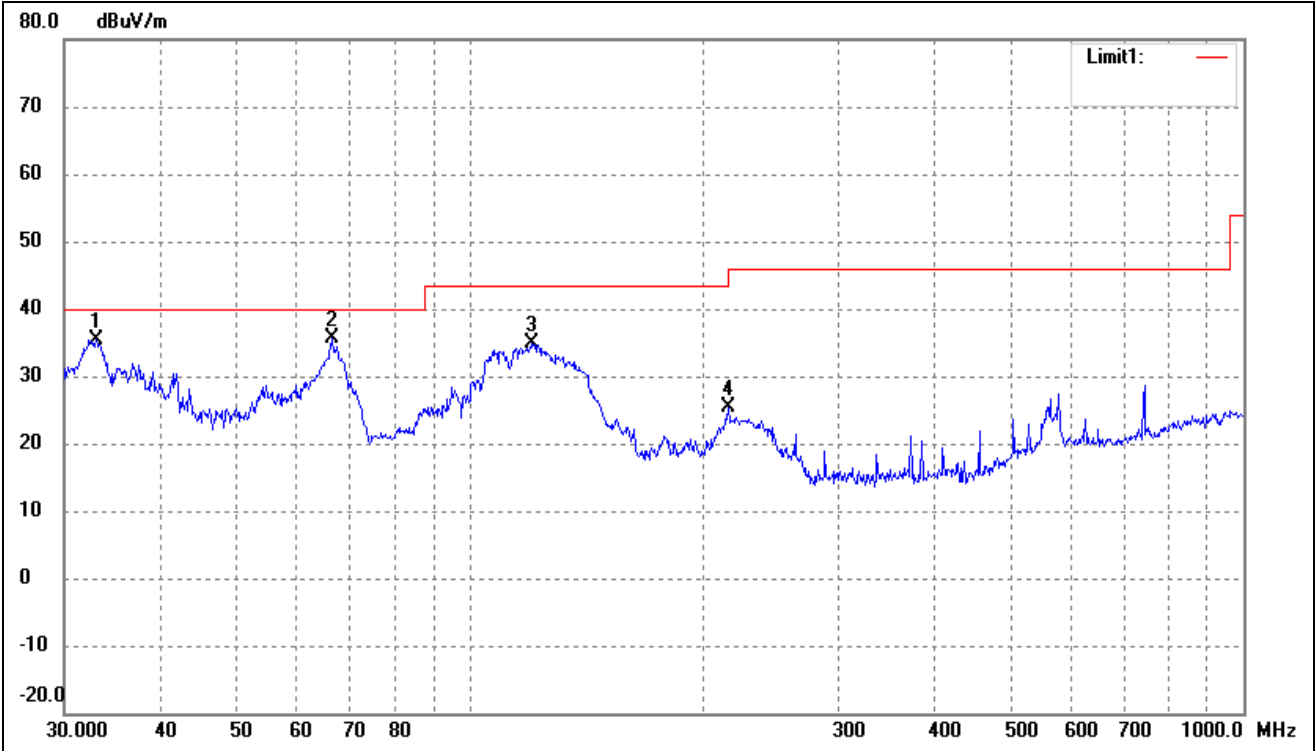
Comment: With adapter

Test Specification: Horizontal

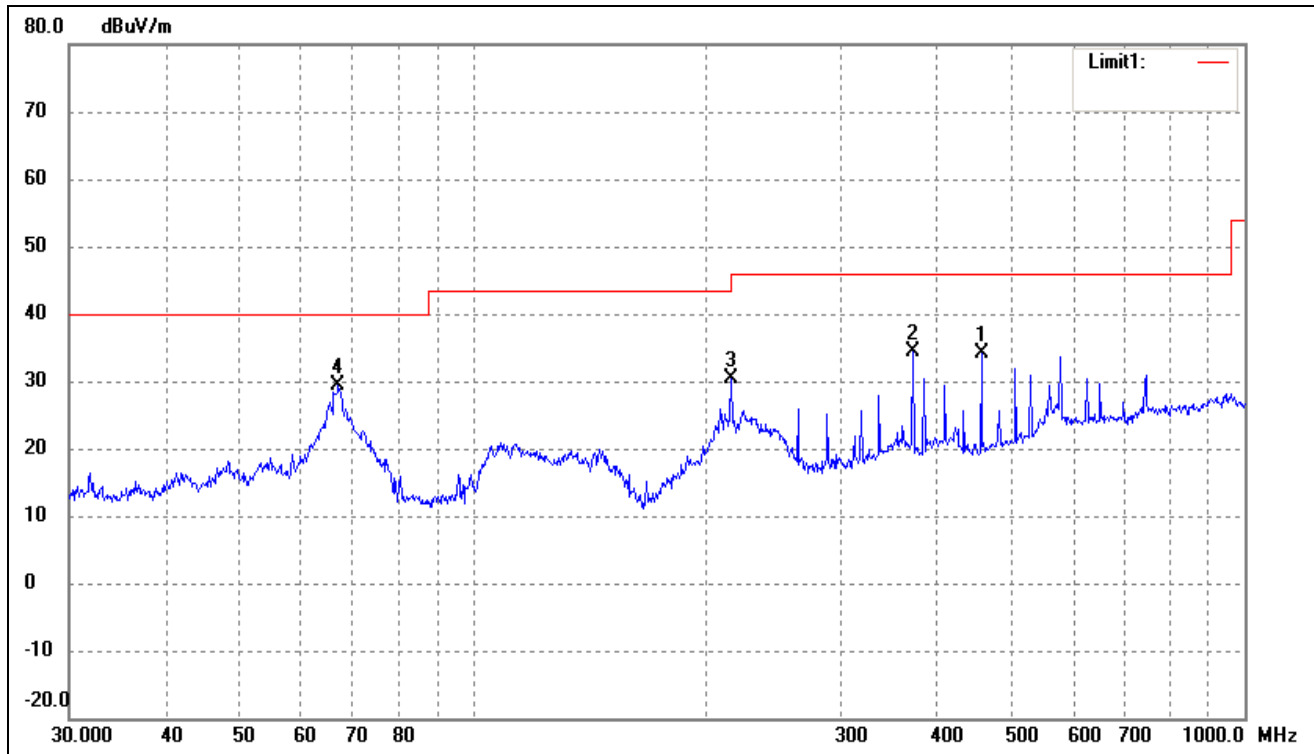


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	455.9057	39.84	-5.18	34.66	46.00	-11.34	85	100	peak
2	372.0045	39.63	-6.71	32.92	46.00	-13.08	167	100	peak
3	576.6443	36.93	-2.74	34.19	46.00	-11.81	178	100	peak
4	216.0240	39.48	-10.61	28.87	46.00	-17.13	276	100	peak
5	66.9668	39.11	-11.14	27.97	40.00	-12.03	360	100	peak

Test Specification: Vertical



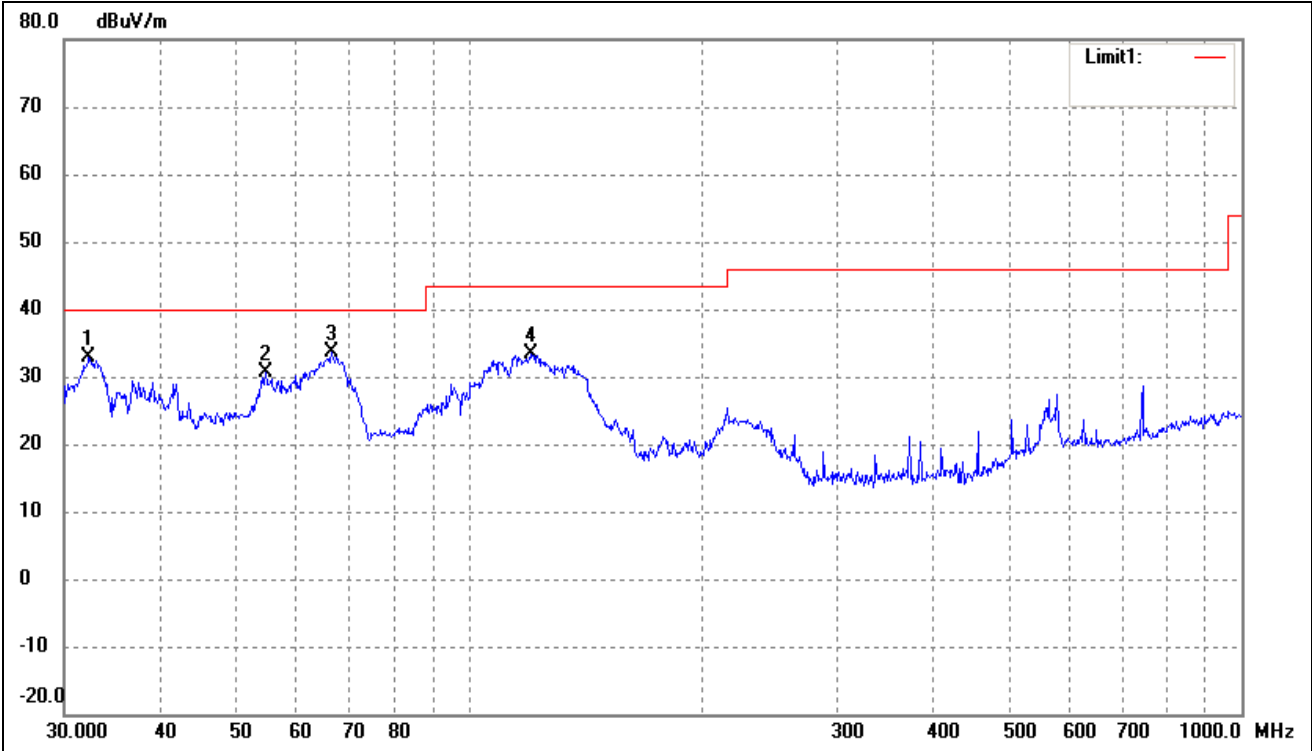
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	32.9791	46.47	-10.99	35.48	40.00	-4.52	360	100	peak
2*	66.4989	46.64	-10.93	35.71	40.00	-4.29	226	100	peak
3	120.6991	47.27	-12.47	34.80	43.50	-8.70	275	100	peak
4	216.0240	36.05	-10.61	25.44	46.00	-20.56	184	100	peak

**Plot of Radiated Emissions Test Data (30MHz to 1GHz)***EUT: Tablet PC**Tested Model: F-10HD2CORE**Operating Condition: 802.11n-HT20 Transmitting Low Channel-2412MHz**Comment: With adapter**Test Specification: Horizontal*

No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	455.9057	39.34	-5.18	34.16	46.00	-11.84	47	100	peak
2	372.0045	41.13	-6.71	34.42	46.00	-11.58	168	100	peak
3	216.0240	40.98	-10.61	30.37	46.00	-15.63	226	100	peak
4*	66.9668	40.61	-11.14	29.47	40.00	-10.53	360	100	peak



Test Specification: Vertical

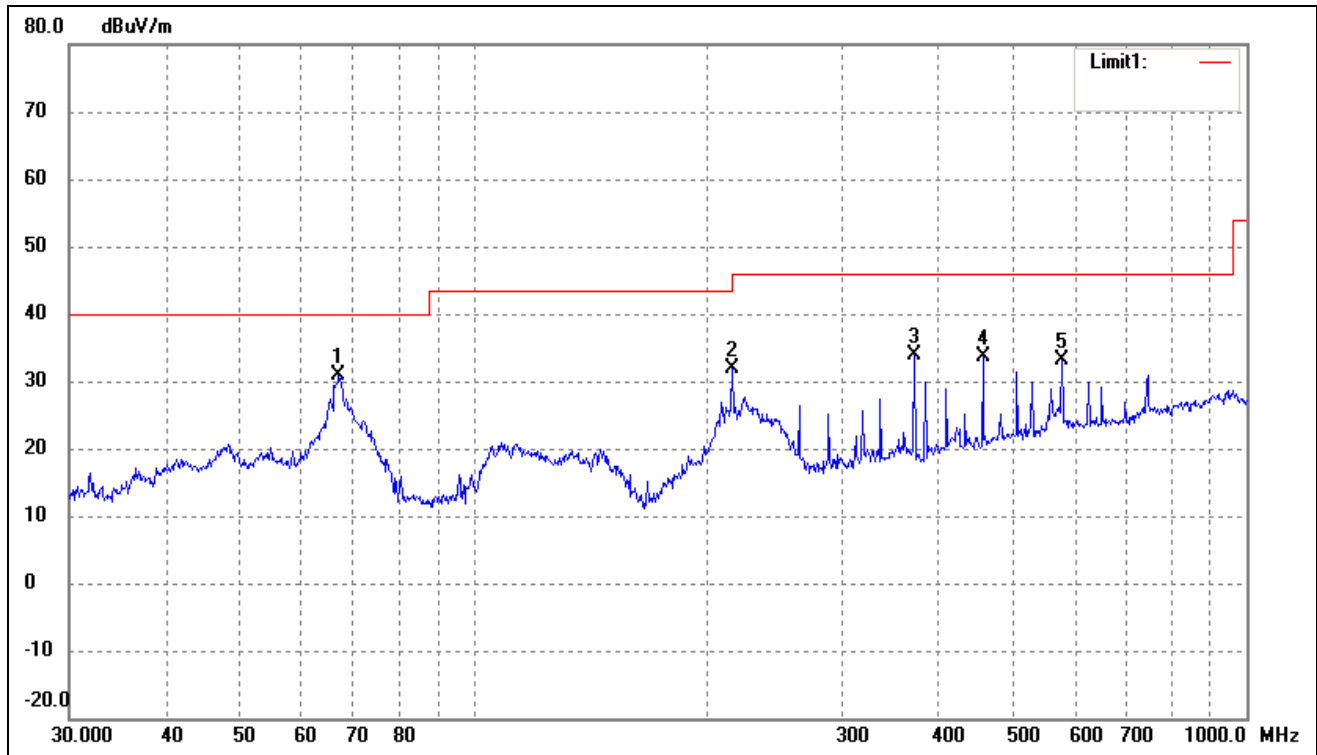


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	32.2924	44.02	-11.07	32.95	40.00	-7.05	225	100	peak
2	54.6428	39.27	-8.65	30.62	40.00	-9.38	360	100	peak
3*	66.4989	44.64	-10.93	33.71	40.00	-6.29	116	100	peak
4	120.6991	45.77	-12.47	33.30	43.50	-10.20	178	100	peak

Operating Condition: 802.11n-HT20 Transmitting Middle Channel-2442MHz

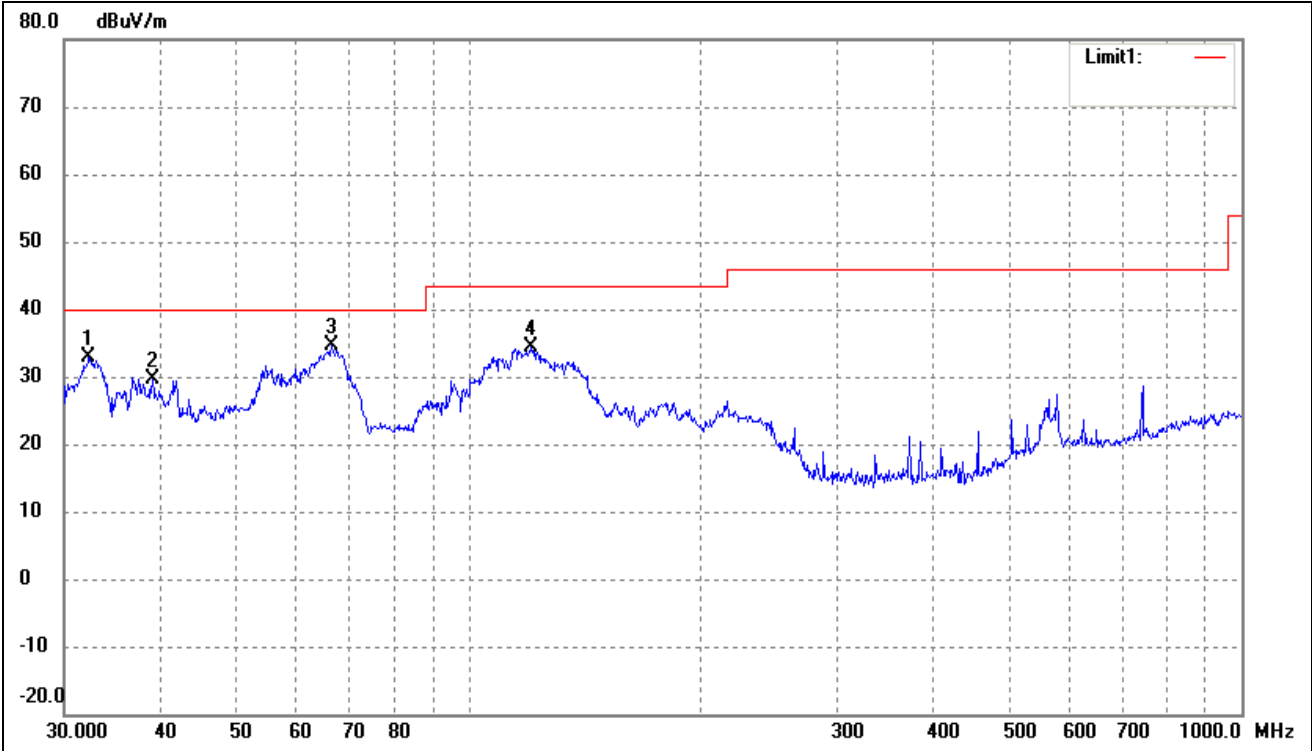
Comment: With adapter

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	66.9668	42.11	-11.14	30.97	40.00	-9.03	346	100	peak
2	216.0240	42.48	-10.61	31.87	46.00	-14.13	360	100	peak
3	372.0045	40.63	-6.71	33.92	46.00	-12.08	278	100	peak
4	455.9057	38.84	-5.18	33.66	46.00	-12.34	80	100	peak
5	576.6443	35.93	-2.74	33.19	46.00	-12.81	164	100	peak

Test Specification: Vertical

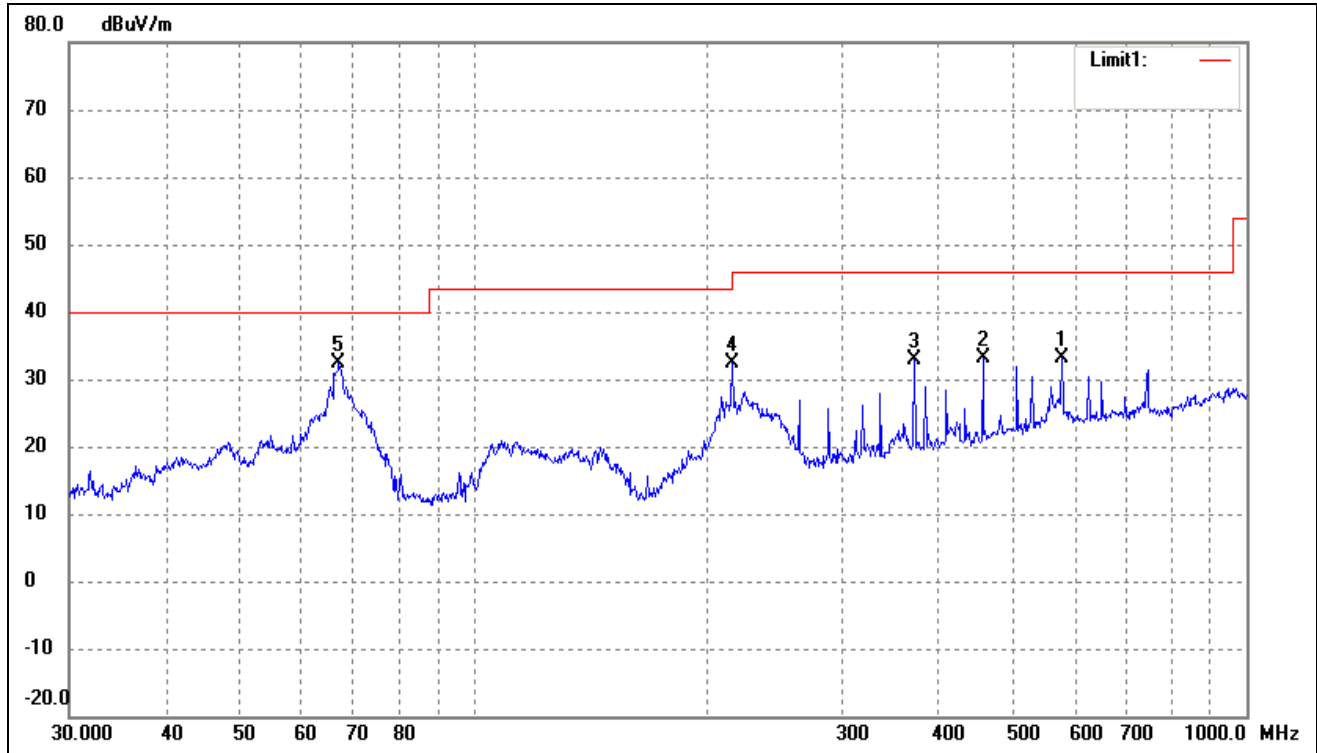


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	32.2924	44.02	-11.07	32.95	40.00	-7.05	147	100	peak
2	39.0245	38.73	-9.22	29.51	40.00	-10.49	65	100	peak
3*	66.4989	45.64	-10.93	34.71	40.00	-5.29	165	100	peak
4	120.6991	46.77	-12.47	34.30	43.50	-9.20	228	100	peak

Operating Condition: 802.11n-HT20 Transmitting High Channel-2472MHz

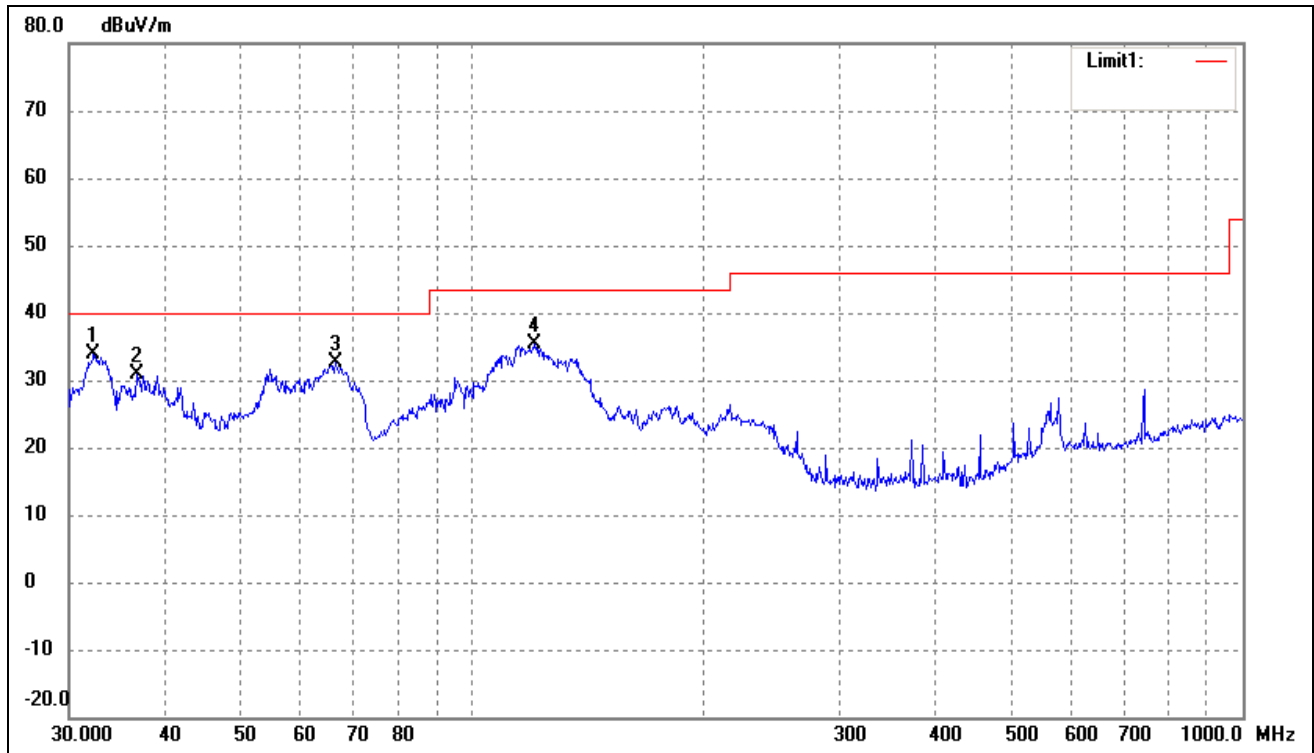
Comment: With adapter

Test Specification: Horizontal

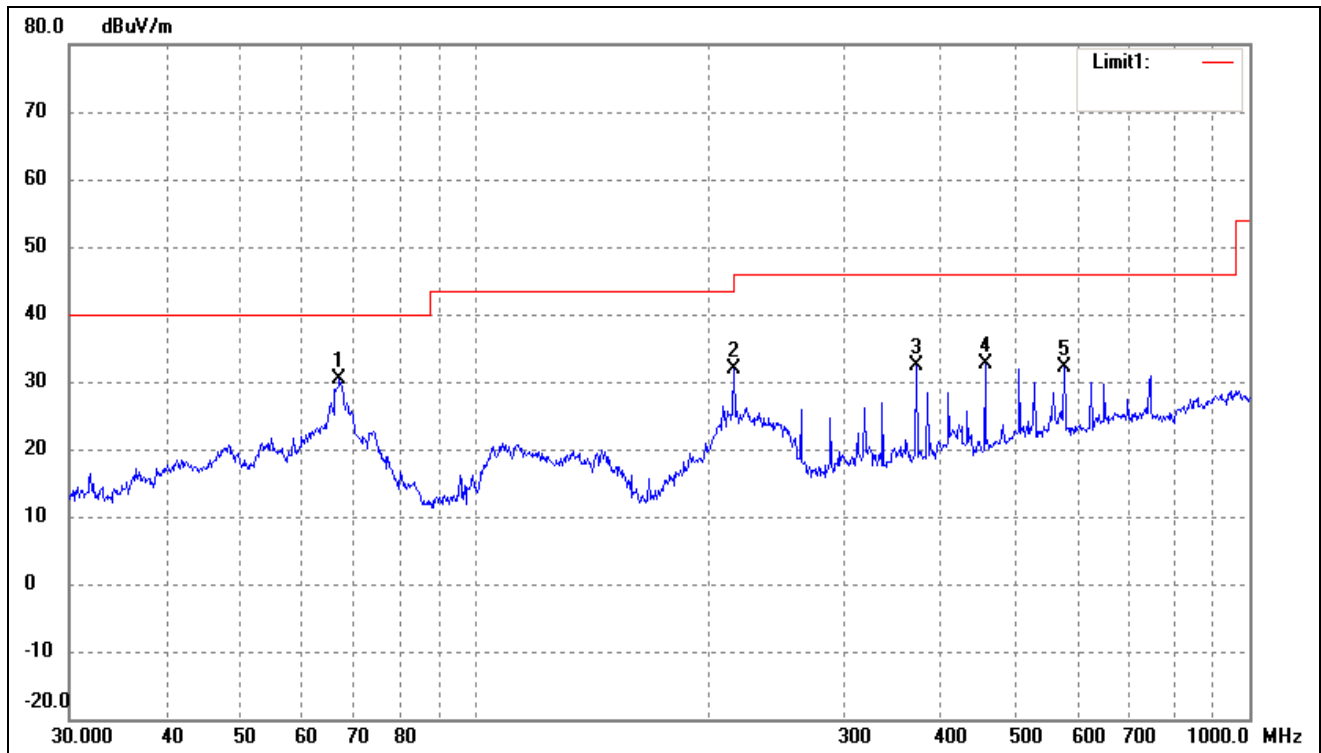


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	576.6443	35.93	-2.74	33.19	46.00	-12.81	360	100	peak
2	455.9057	38.34	-5.18	33.16	46.00	-12.84	284	100	peak
3	372.0045	39.63	-6.71	32.92	46.00	-13.08	164	100	peak
4	216.0240	42.98	-10.61	32.37	46.00	-13.63	360	100	peak
5*	66.9668	43.61	-11.14	32.47	40.00	-7.53	360	100	peak

Test Specification: Vertical

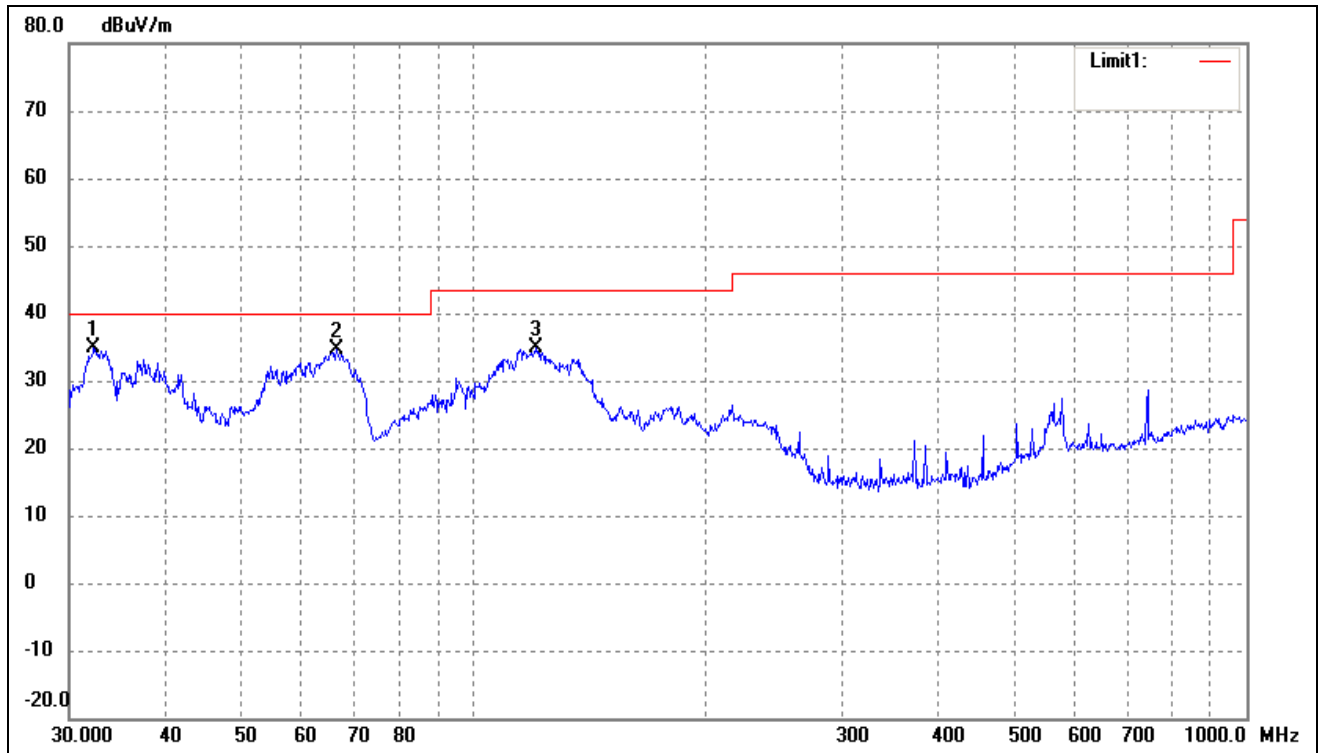


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1*	32.2924	45.02	-11.07	33.95	40.00	-6.05	264	100	peak
2	36.7661	40.66	-9.88	30.78	40.00	-9.22	275	100	peak
3	66.4989	43.64	-10.93	32.71	40.00	-7.29	286	100	peak
4	120.6991	47.77	-12.47	35.30	43.50	-8.20	62	100	peak

**Plot of Radiated Emissions Test Data (30MHz to 1GHz)***EUT: Tablet PC**Tested Model: F-10HD2CORE**Operating Condition: 802.11n-HT40 Transmitting Low Channel-2422MHz**Comment: With adapter**Test Specification: Horizontal*

No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1*	66.9668	41.61	-11.14	30.47	40.00	-9.53	256	100	peak
2	216.0240	42.48	-10.61	31.87	46.00	-14.13	189	100	peak
3	372.0045	39.13	-6.71	32.42	46.00	-13.58	87	100	peak
4	455.9057	37.84	-5.18	32.66	46.00	-13.34	116	100	peak
5	576.6443	34.93	-2.74	32.19	46.00	-13.81	225	100	peak

Test Specification: Vertical

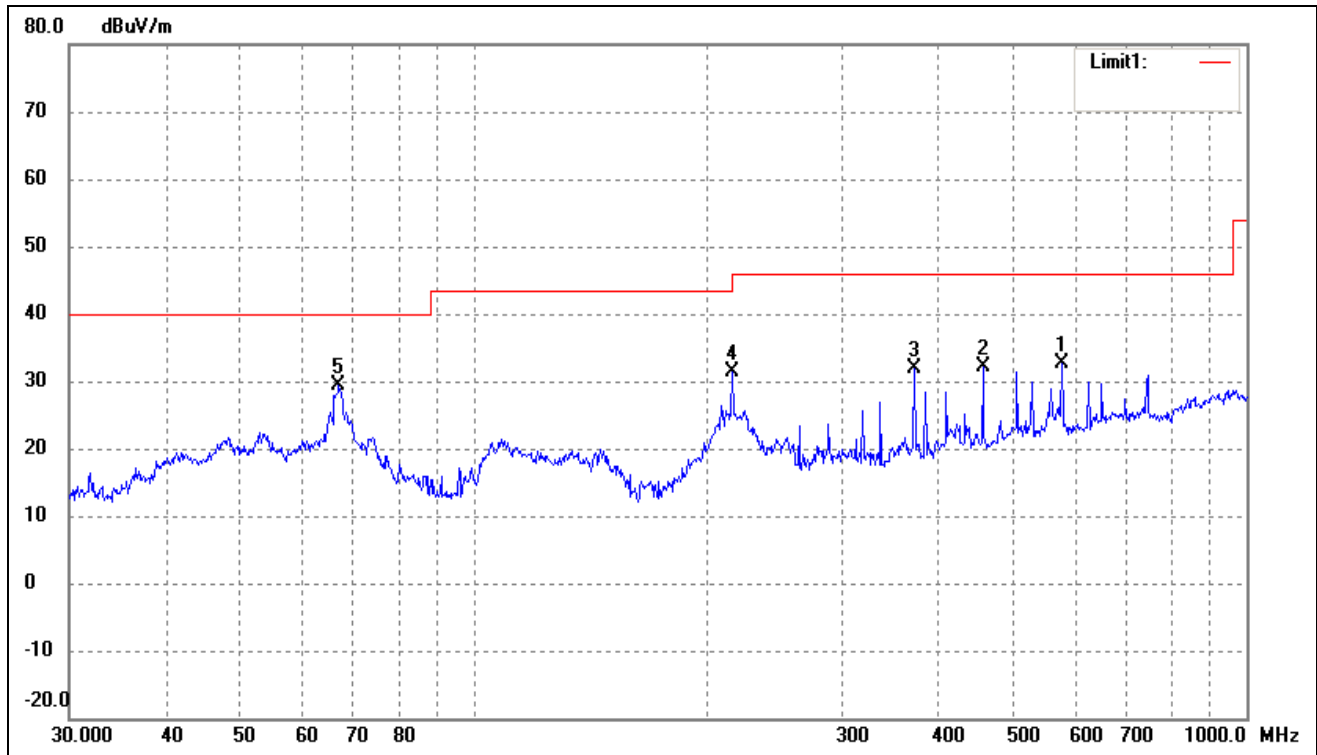


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1*	32.2924	46.02	-11.07	34.95	40.00	-5.05	360	100	peak
2	66.4989	45.64	-10.93	34.71	40.00	-5.29	228	100	peak
3	120.6991	47.27	-12.47	34.80	43.50	-8.70	36	100	peak

Operating Condition: 802.11n-HT40 Transmitting Middle Channel-2442MHz

Comment: With adapter

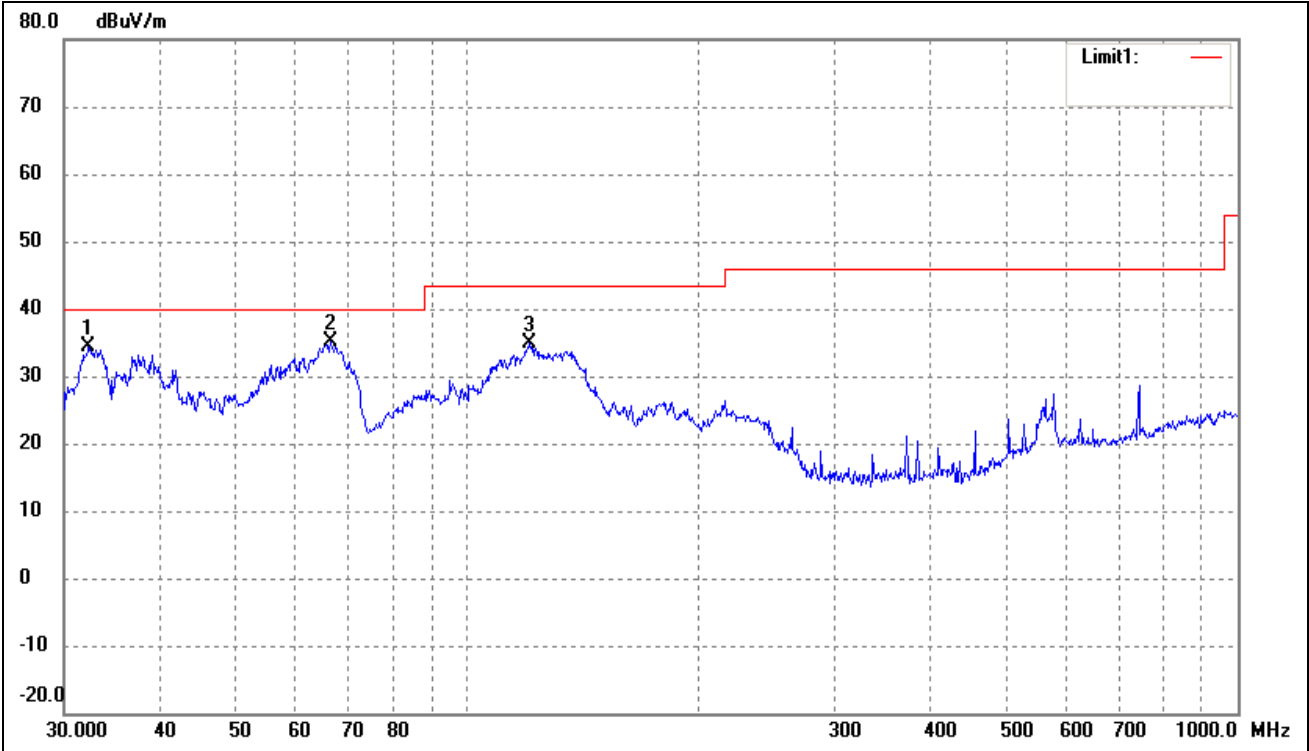
Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	576.6443	35.43	-2.74	32.69	46.00	-13.31	46	100	peak
2	455.9057	37.34	-5.18	32.16	46.00	-13.84	185	100	peak
3	372.0045	38.63	-6.71	31.92	46.00	-14.08	268	100	peak
4	216.0240	41.98	-10.61	31.37	46.00	-14.63	336	100	peak
5*	66.9668	40.61	-11.14	29.47	40.00	-10.53	360	100	peak



Test Specification: Vertical

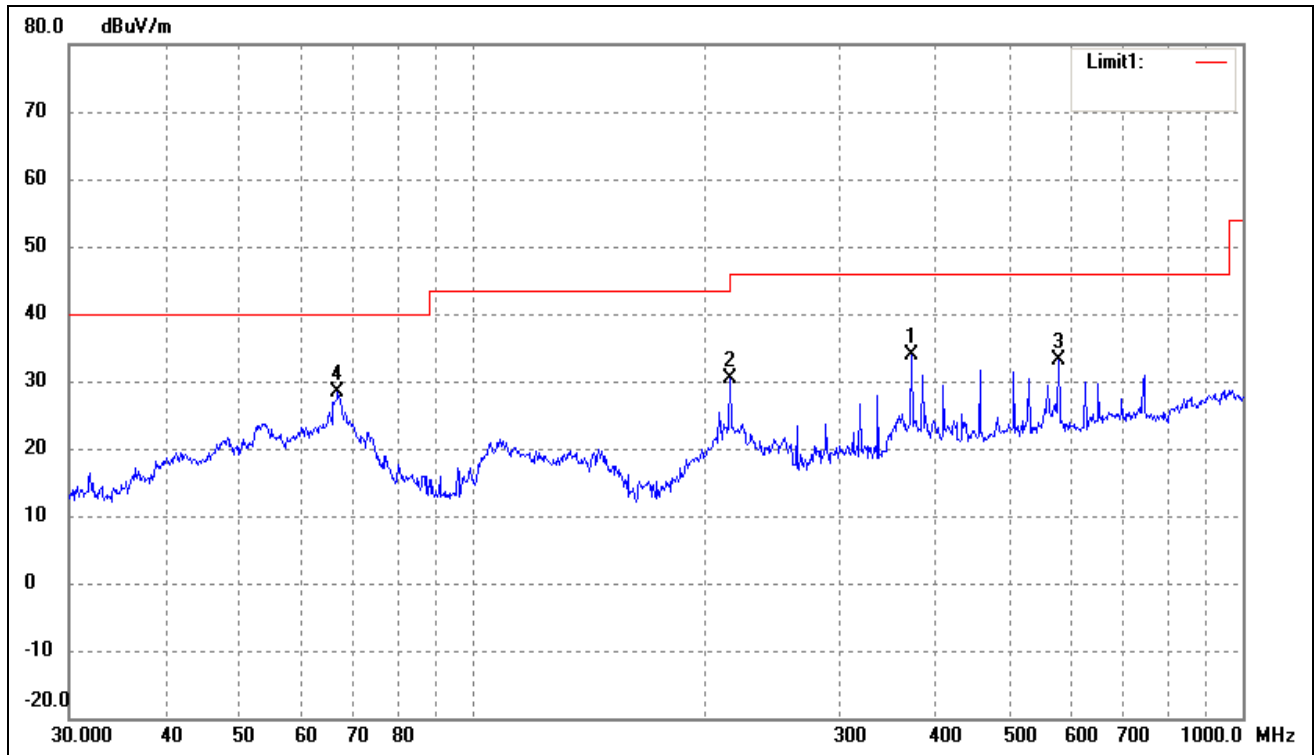


No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1	32.2924	45.52	-11.07	34.45	40.00	-5.55	274	100	peak
2*	66.4989	46.14	-10.93	35.21	40.00	-4.79	56	100	peak
3	120.6991	47.27	-12.47	34.80	43.50	-8.70	28	100	peak

Operating Condition: 802.11n-HT40 Transmitting High Channel-2462MHz

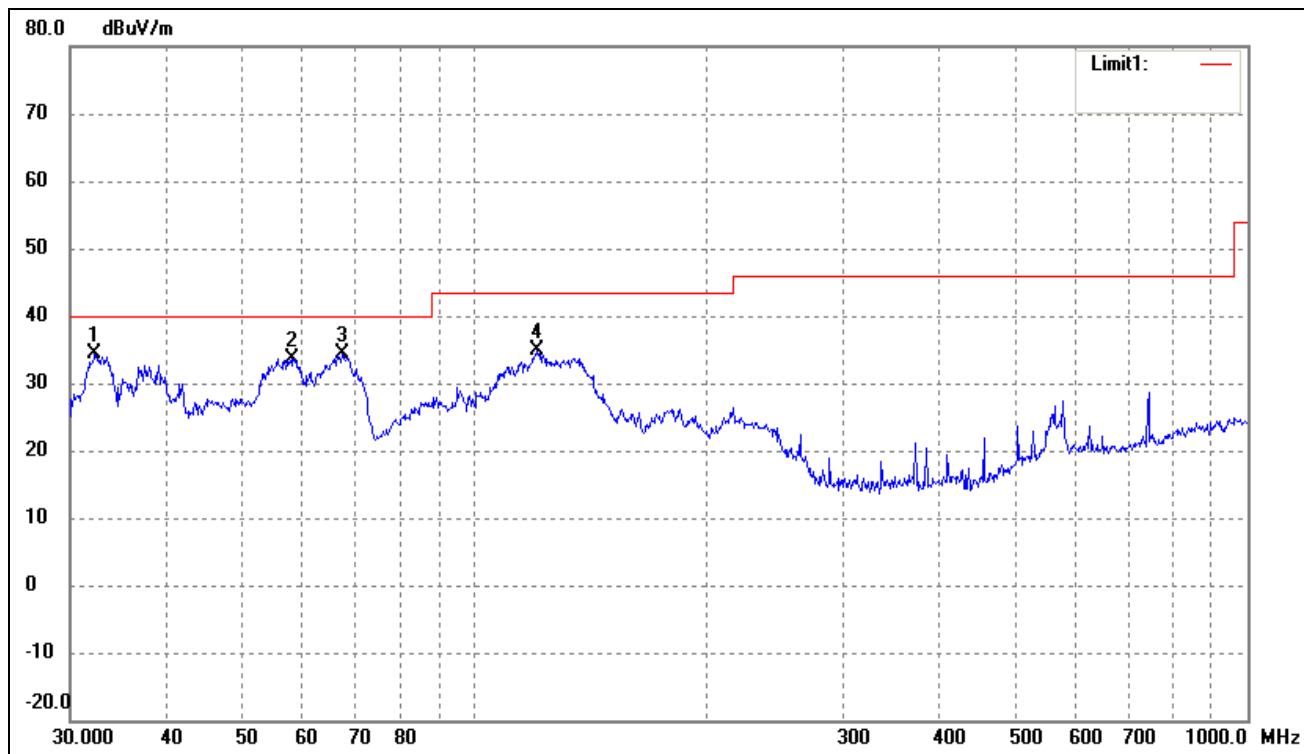
Comment: With adapter

Test Specification: Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Detector
1	372.0045	40.63	-6.71	33.92	46.00	-12.08	74	100	peak
2	216.0240	40.98	-10.61	30.37	46.00	-15.63	186	100	peak
3	576.6443	35.93	-2.74	33.19	46.00	-12.81	360	100	peak
4*	66.9668	39.61	-11.14	28.47	40.00	-11.53	336	100	peak

Test Specification: Vertical



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	( ° )	(cm)	
1*	32.2924	45.52	-11.07	34.45	40.00	-5.55	285	100	peak
2	58.2030	43.04	-9.32	33.72	40.00	-6.28	46	100	peak
3	67.4381	45.63	-11.34	34.29	40.00	-5.71	116	100	peak
4	120.6991	47.27	-12.47	34.80	43.50	-8.70	136	100	peak

\*: Maximum data for every polarization:

*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	65.96	-3.88	62.08	74.00	-11.92	H	PK
4824.000	48.24	-3.88	44.36	54.00	-9.64	H	AV
7236.000	49.61	1.14	50.75	74.00	-23.25	H	PK
7236.000	38.46	1.14	39.60	54.00	-14.40	H	AV
4824.000	65.80	-3.88	61.92	74.00	-12.08	V	PK
4824.000	48.16	-3.88	44.28	54.00	-9.72	V	AV
7236.000	51.58	1.14	52.72	74.00	-21.28	V	PK
7236.000	38.83	1.14	39.97	54.00	-14.03	V	AV
Middle Channel-2442MHz							
4884.000	57.27	-3.75	53.52	74.00	-20.48	H	PK
4884.000	44.57	-3.75	40.82	54.00	-13.18	H	AV
7326.000	46.80	1.47	48.27	74.00	-25.73	H	PK
7326.000	35.72	1.47	37.19	54.00	-16.81	H	AV
4884.000	60.00	-3.75	56.25	74.00	-17.75	V	PK
4884.000	48.08	-3.75	44.33	54.00	-9.67	V	AV
7326.000	50.07	1.47	51.54	74.00	-22.46	V	PK
7326.000	37.35	1.47	38.82	54.00	-15.18	V	AV
High Channel-2472MHz							
4944.000	48.01	-3.59	44.42	74.00	-29.58	H	PK
4944.000	35.63	-3.59	32.04	54.00	-21.96	H	AV
7416.000	44.87	1.79	46.66	74.00	-27.34	H	PK
7416.000	33.83	1.79	35.62	54.00	-18.37	H	AV
4944.000	49.84	-3.59	46.25	74.00	-27.75	V	PK
4944.000	35.32	-3.59	31.73	54.00	-22.27	V	AV
7416.000	45.25	1.79	47.04	74.00	-26.96	V	PK
7416.000	33.84	1.79	35.63	54.00	-18.37	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							
4821.757	52.90	-3.88	49.02	74.00	-24.98	H	PK
4821.757	39.21	-3.88	35.33	54.00	-18.67	H	AV
7236.000	46.55	1.14	47.69	74.00	-26.31	H	PK
7245.810	34.70	1.14	35.84	54.00	-18.16	H	AV
4821.757	63.46	-3.88	59.58	74.00	-14.42	V	PK
4821.757	45.14	-3.88	41.26	54.00	-12.74	V	AV
7245.810	49.50	1.14	50.64	74.00	-23.36	V	PK
7245.810	36.81	1.14	37.95	54.00	-16.05	V	AV
Middle Channel-2442MHz							
4884.000	50.24	-3.75	46.49	74.00	-27.51	H	PK
4884.000	37.76	-3.75	34.01	54.00	-19.99	H	AV
7326.000	46.56	1.47	48.03	74.00	-25.97	H	PK
7326.000	35.26	1.47	36.73	54.00	-17.27	H	AV
4884.000	61.97	-3.75	58.22	74.00	-15.78	V	PK
4884.000	45.46	-3.75	41.71	54.00	-12.29	V	AV
7326.000	48.23	1.47	49.70	74.00	-24.30	V	PK
7326.000	35.81	1.47	37.28	54.00	-16.72	V	AV
High Channel-2472MHz							
4944.000	38.81	-3.59	35.22	54.00	-18.78	H	PK
4944.000	54.26	-3.59	50.67	74.00	-23.33	H	AV
7416.000	46.94	1.79	48.73	74.00	-25.27	H	PK
7416.000	35.46	1.79	37.25	54.00	-16.75	H	AV
4944.000	52.31	-3.59	48.72	74.00	-25.28	V	PK
4944.000	37.29	-3.59	33.70	54.00	-20.30	V	AV
7416.000	47.16	1.79	48.95	74.00	-25.05	V	PK
7416.000	35.60	1.79	37.39	54.00	-16.61	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	57.33	-3.88	53.45	74.00	-20.55	H	PK
4824.000	46.00	-3.88	42.12	54.00	-11.88	H	AV
7236.000	46.08	1.14	47.22	74.00	-26.78	H	PK
7236.000	40.55	1.14	41.69	54.00	-12.31	H	AV
4824.000	58.74	-3.88	54.86	74.00	-19.14	V	PK
4824.000	45.15	-3.88	41.27	54.00	-12.73	V	AV
7236.000	47.27	1.14	48.41	74.00	-25.59	V	PK
7236.000	42.98	1.14	44.12	54.00	-9.88	V	AV
Middle Channel-2442MHz							
4884.000	57.27	-3.75	53.52	74.00	-20.48	H	PK
4884.000	44.57	-3.75	40.82	54.00	-13.18	H	AV
7326.000	46.80	1.47	48.27	74.00	-25.73	H	PK
7326.000	40.48	1.47	41.95	54.00	-12.05	H	AV
4884.000	60.00	-3.75	56.25	74.00	-17.75	V	PK
4884.000	48.08	-3.75	44.33	54.00	-9.67	V	AV
7326.000	50.07	1.47	51.54	74.00	-22.46	V	PK
7326.000	40.89	1.47	42.36	54.00	-11.64	V	AV
High Channel-2472MHz							
4944.000	53.59	-3.59	50.00	74.00	-24.00	H	PK
4944.000	44.75	-3.59	41.16	54.00	-12.84	H	AV
7416.000	45.50	1.79	47.29	74.00	-26.71	H	PK
7416.000	40.57	1.79	42.36	54.00	-11.64	H	AV
4944.000	53.88	-3.59	50.29	74.00	-23.71	V	PK
4944.000	44.59	-3.59	41.00	54.00	-13.00	V	AV
7416.000	48.20	1.79	49.99	74.00	-24.01	V	PK
7416.000	39.46	1.79	41.25	54.00	-12.75	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	56.71	-3.86	52.85	74.00	-21.15	H	PK
4824.000	43.18	-3.86	39.32	54.00	-14.68	H	AV
7236.000	49.21	1.10	50.31	74.00	-23.69	H	PK
7236.000	35.77	1.10	36.87	54.00	-17.13	H	AV
4824.000	55.60	-3.86	51.74	74.00	-22.26	V	PK
4824.000	40.54	-3.86	36.68	54.00	-17.32	V	AV
7236.000	47.26	1.10	48.36	74.00	-25.64	V	PK
7236.000	34.44	1.10	35.54	54.00	-18.46	V	AV
Middle Channel-2442MHz							
4884.000	54.05	-3.74	50.31	74.00	-23.69	H	PK
4884.000	41.63	-3.74	37.89	54.00	-16.11	H	AV
7326.000	48.87	1.47	50.34	74.00	-23.66	H	PK
7326.000	36.42	1.47	37.89	54.00	-16.11	H	AV
4884.000	55.85	-3.74	52.11	74.00	-21.89	V	PK
4884.000	43.38	-3.74	39.64	54.00	-14.36	V	AV
7326.000	48.63	1.47	50.10	74.00	-23.90	V	PK
7326.000	35.68	1.47	37.15	54.00	-16.85	V	AV
High Channel-2462MHz							
4924.000	54.77	-3.59	51.18	74.00	-22.82	H	PK
4944.000	42.47	-3.59	38.88	54.00	-15.12	H	AV
7416.000	48.42	1.79	50.21	74.00	-23.79	H	PK
7416.000	32.78	1.79	34.57	54.00	-19.43	H	AV
4944.000	54.01	-3.59	50.42	74.00	-23.58	V	PK
4944.000	42.33	-3.59	38.74	54.00	-15.26	V	AV
7416.000	48.17	1.79	49.96	74.00	-24.04	V	PK
7416.000	34.88	1.79	36.67	54.00	-17.33	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, which above 3<sup>th</sup> 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 and the data is not report.

## 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	2013-05-07	2014-05-06
EMI Test Receiver	R&S	ESVB	825471/005	2013-05-07	2014-05-06
Pre-amplifier	Agilent	8447F	3113A06717	2013-05-07	2014-05-06
Pre-amplifier	Compliance Direction	PAP-0118	24002	2013-05-07	2014-05-06
Trilog Broadband Antenna	SCHWARZBECK	VULB9163	9163-333	2013-04-20	2014-04-19
Horn Antenna	ETS	3117	00086197	2013-04-20	2014-04-19

### 9.3 Test Procedure

According to the KDB 558074 D01 v03r01, 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 v03r01, 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

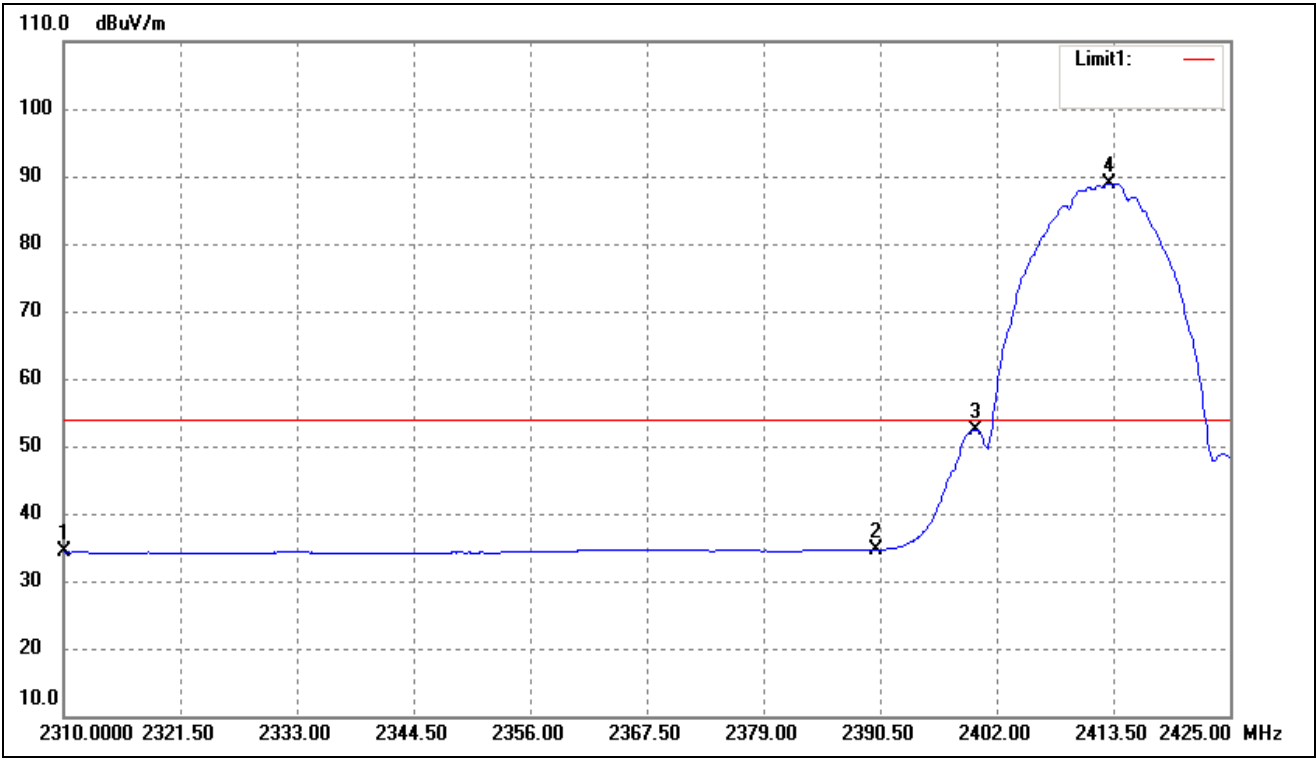
#### 9.5 Summary of Test Results/Plots

Test Mode	Test Frequency MHz	Limit dBuV / dBc	Result
802.11b	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
	2400.000	> 20dBc	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass
802.11g	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
	2400.000	> 20dBc	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass
802.11n-HT20	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
	2400.000	> 20dBc	Pass
	2483.500	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass
802.11n-HT40	2310.000	<54 dBuV	Pass
	2390.000	<54 dBuV	Pass
	2398.480	> 20dBc	Pass
	2485.480	<54 dBuV	Pass
	2500.000	<54 dBuV	Pass

The edge emissions are below the FCC 15.209 Limits or complies with the 15.247(d) requirements.

Please refer to the test plots as below.

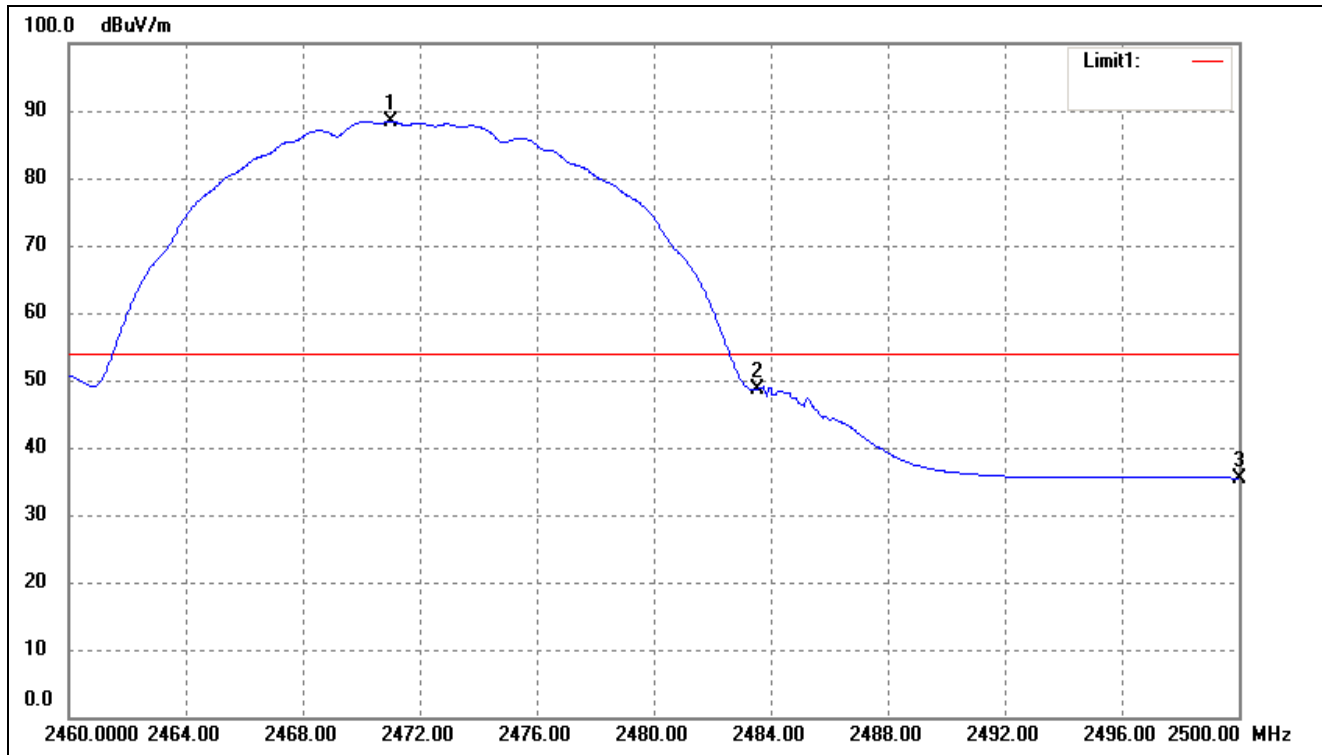
802.11b-Lowest Bandedge  
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	23.08	11.18	34.26	54.00	-19.74	Average Detector
	2310.000	36.20	11.18	47.38	74.00	-26.62	Peak Detector
2	2390.000	22.86	11.83	34.69	54.00	-19.31	Average Detector
	2390.000	35.89	11.83	47.72	74.00	-26.28	Peak Detector
3	2400.000	40.55	11.91	52.46	Delta =36.46dBc		Average Detector
4	2413.040	76.93	11.99	88.92			Average Detector

## 802.11b-Highest Bandedge

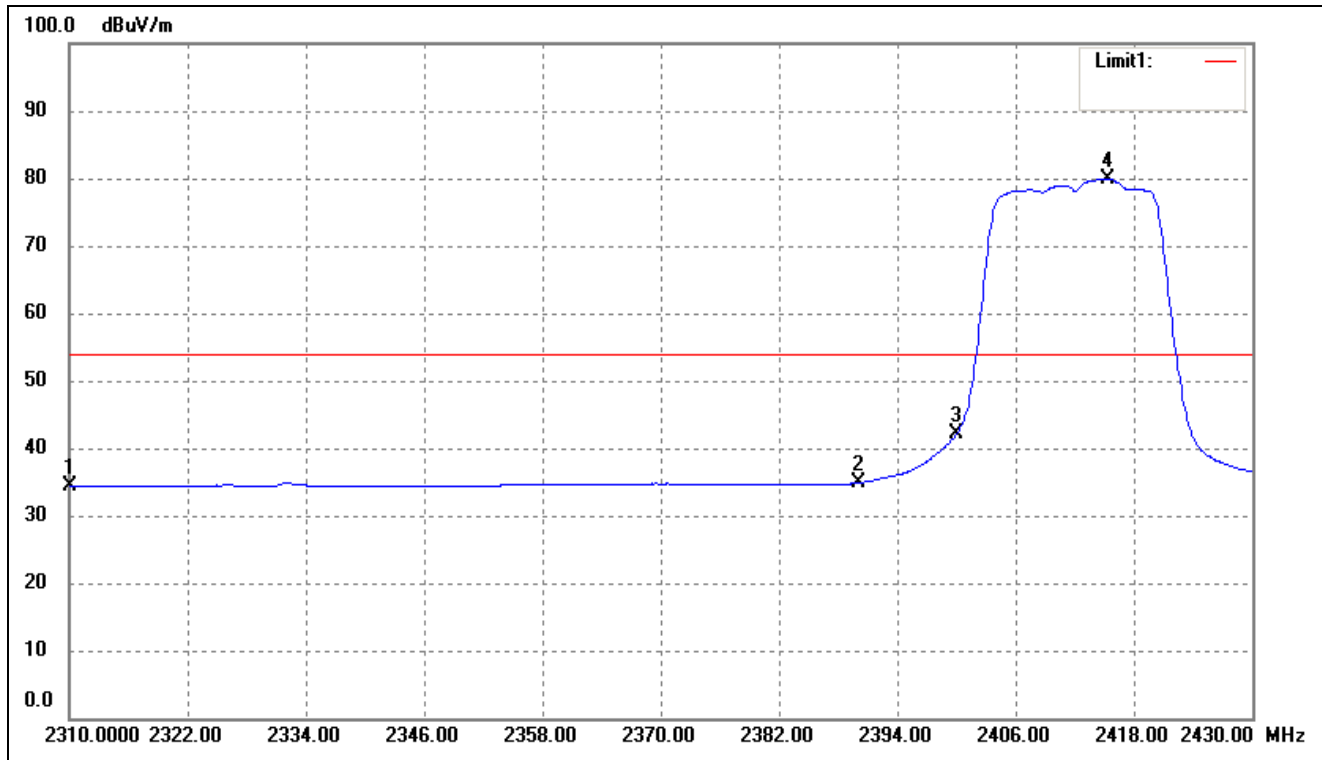
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2472.000	76.10	12.40	88.50	/	/	Average Detector
	2472.000	83.40	12.40	95.84	/	/	Peak Detector
2	2483.500	Delta =39.87 dBc		48.63	54.00	-5.37	Average Detector
	2483.500			55.79	74.00	-18.21	Peak Detector
3	2500.000	22.88	12.61	35.49	54.00	-18.51	Average Detector
	2500.000	34.50	12.60	47.10	74.00	-26.90	Peak Detector

802.11g-Lowest Bandedge

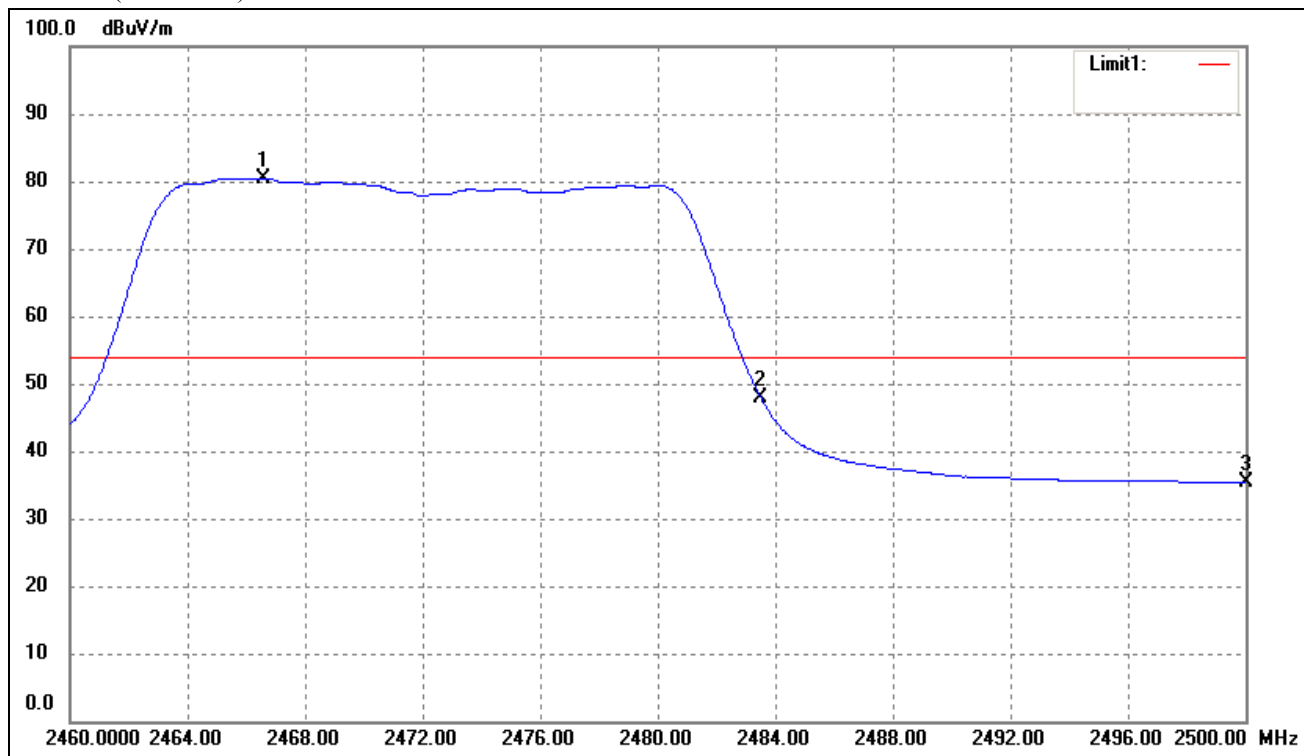
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	23.28	11.18	34.46	54.00	-19.54	Average Detector
	2310.000	32.92	11.18	44.10	74.00	-29.90	Peak Detector
2	2390.000	23.07	11.83	34.90	54.00	-19.10	Average Detector
	2390.000	33.13	11.83	44.96	74.00	-29.04	Peak Detector
3	2400.000	30.29	11.91	42.20	Delta =37.78 dBc		Average Detector
4	2415.360	67.96	12.02	79.98			Average Detector

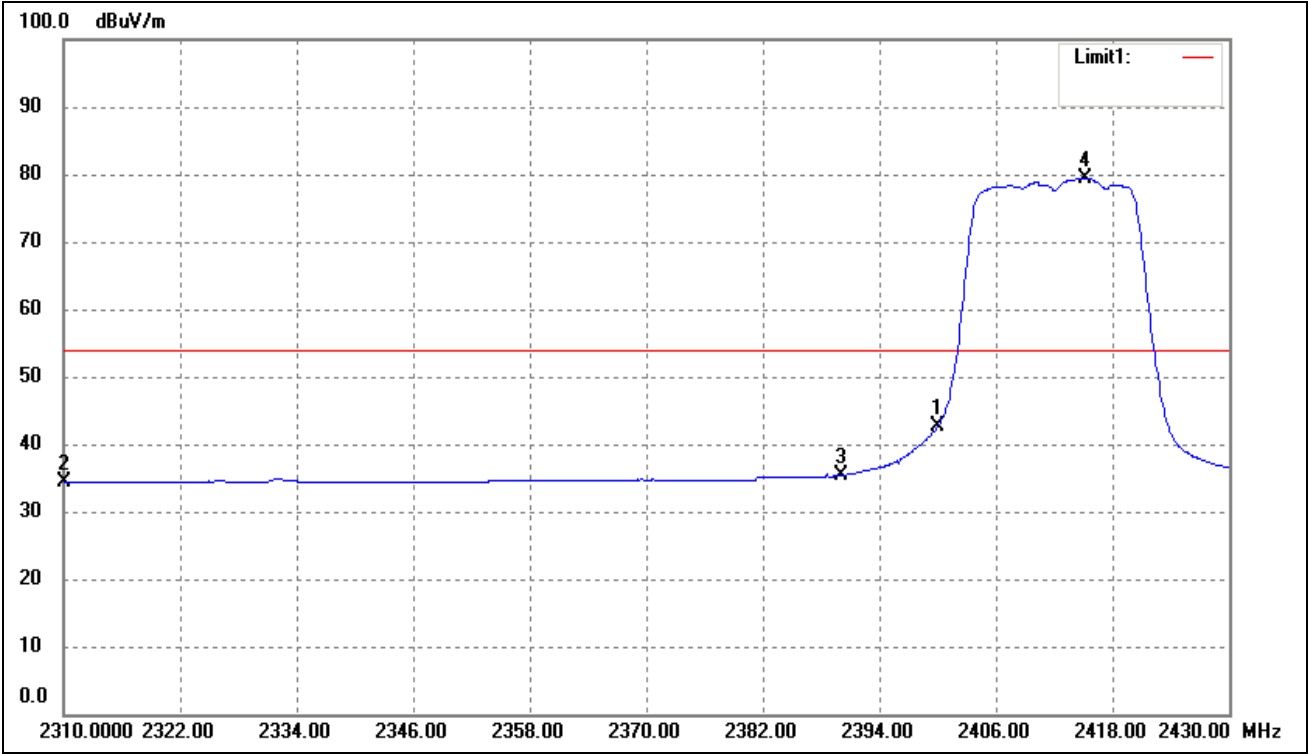
802.11g-Highest Bandedge

Vertical (Worst case)



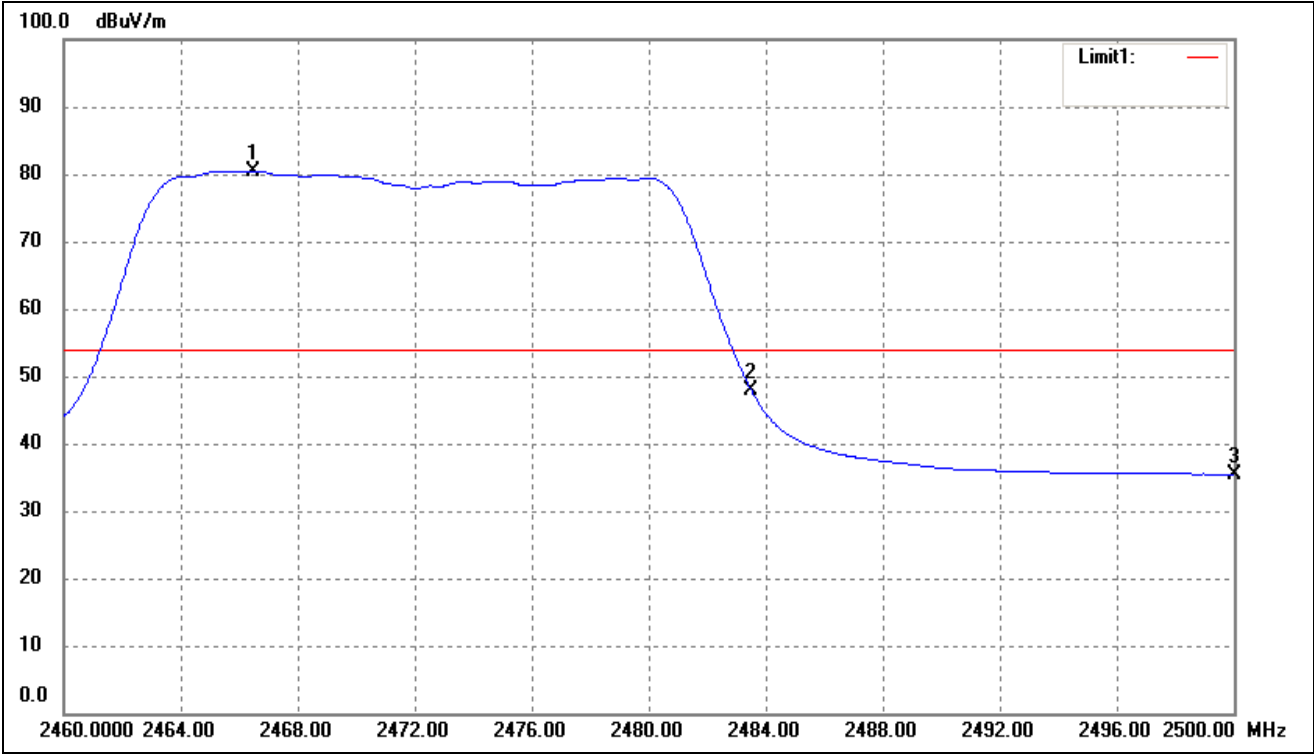
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	2466.560	68.08	12.37	80.45	/	/	Average Detector
	2466.560	79.46	12.37	91.83	/	/	Peak Detector
1	2483.500	Delta = 32.88 dBc		47.57	54.00	-6.43	Average Detector
	2483.500			58.95	74.00	-15.05	Peak Detector
3	2500.000	22.85	12.61	35.46	54.00	-18.54	Average Detector
	2500.000	35.24	12.61	47.85	74.00	-26.15	Peak Detector

802.11n-HT20-Lowest Bandedge  
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	23.28	11.18	34.46	54.00	-19.54	Average Detector
	2310.000	35.09	11.18	46.27	74.00	-27.73	Peak Detector
2	2390.000	23.57	11.83	35.40	54.00	-18.60	Average Detector
	2390.000	34.55	11.83	46.38	74.00	-27.62	Peak Detector
3	2400.000	30.79	11.91	42.70	Delta =36.78 dBc		Average Detector
4	2415.240	79.38	12.02	79.48			Average Detector

802.11n-HT20-Highest Bandedge  
Vertical (Worst case)

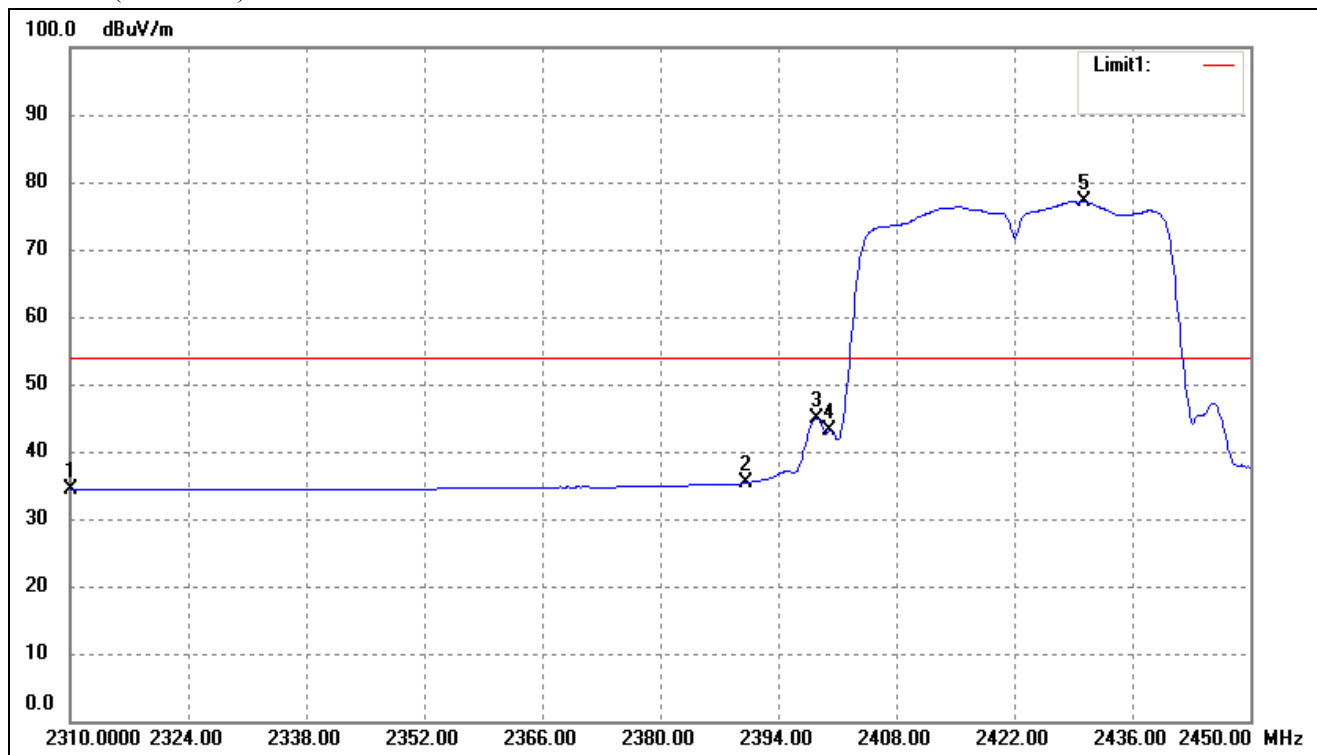


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2466.480	68.12	12.37	80.49	/	/	Average Detector
	2466.480	79.52	12.37	91.89	/	/	Peak Detector
2	2483.500	Delta = 32.96 dBc		47.53	54.00	-6.47	Average Detector
	2483.500			58.93	74.00	-15.07	Peak Detector
3	2500.000	22.87	12.60	35.47	54.00	-18.53	Average Detector
	2500.000	35.24	12.61	47.85	74.00	-26.15	Peak Detector



802.11n-HT40-Lowest Bandedge

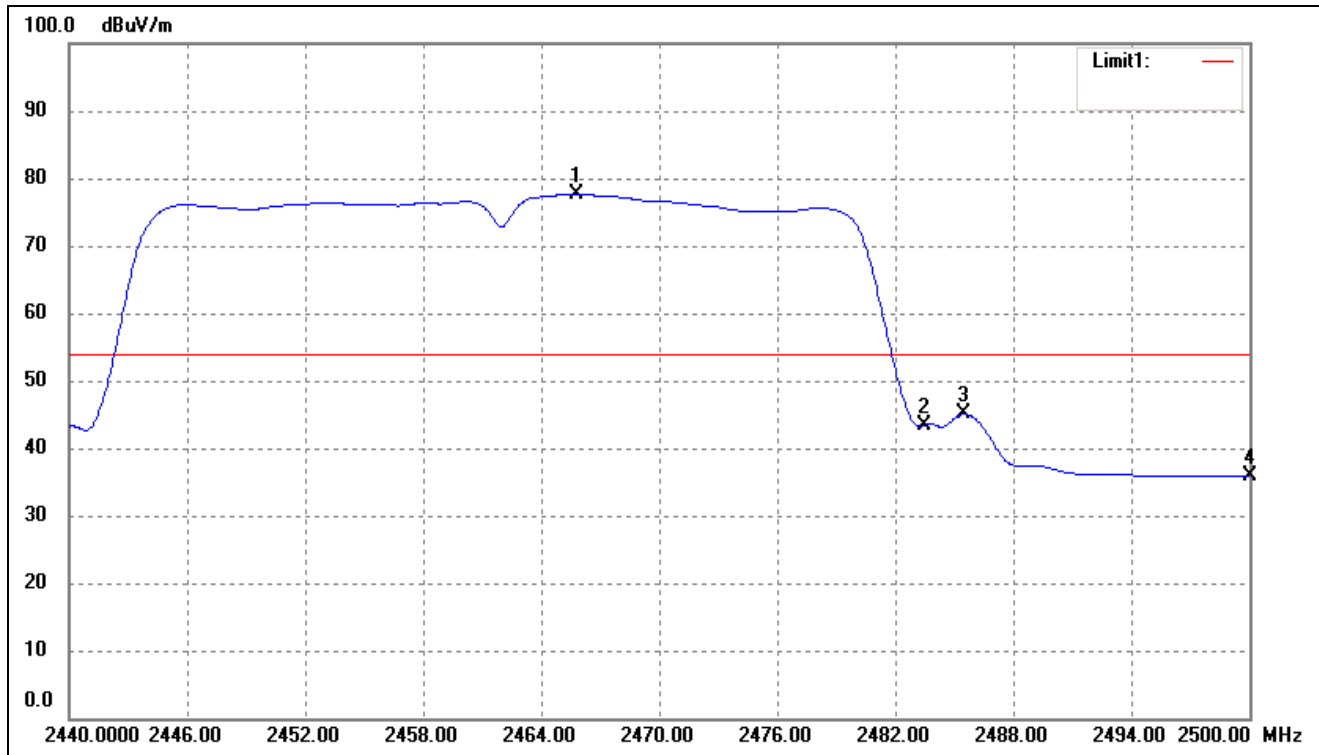
Vertical (Worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	23.28	11.18	34.46	54.00	-19.54	Average Detector
	2310.000	32.94	11.18	44.12	74.00	-29.88	Peak Detector
2	2390.000	23.48	11.83	35.31	54.00	-18.69	Average Detector
	2390.000	33.25	11.83	45.08	74.00	-28.92	Peak Detector
4	2400.000	31.11	11.91	43.02	54.00	-10.98	Average Detector
	2400.000	42.53	11.91	54.44	74.00	-19.56	Peak Detector
3	2398.480	32.94	11.90	44.84	Delta = 32.23 dBc		Average Detector
5	2430.120	64.96	12.11	77.07			Average 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
1	2465.800	65.27	12.36	77.63	/	/	Average Detector
	2465.800	76.51	12.36	88.87	/	/	Peak Detector
3	2485.480	Delta = 33.95 dBc		43.68	54.00	-10.02	Average Detector
	2485.480			54.92	74.00	-19.08	Peak Detector
2	2483.500	30.97	12.49	43.46	54.00	-10.54	Average Detector
	2483.500	48.78	12.49	61.27	74.00	-12.73	Peak Detector
4	2500.000	23.22	12.60	35.82	54.00	-18.18	Average Detector
	2500.000	35.85	12.61	48.46	74.00	-25.54	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  $\pm 2.88$  dB.

### 10.2 Test Equipment List and Details

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2013-05-07	2014-05-06
L.I.S.N	Schwarz beck	NSLK8126	8126-224	2013-05-07	2014-05-06
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2013-05-07	2014-05-06

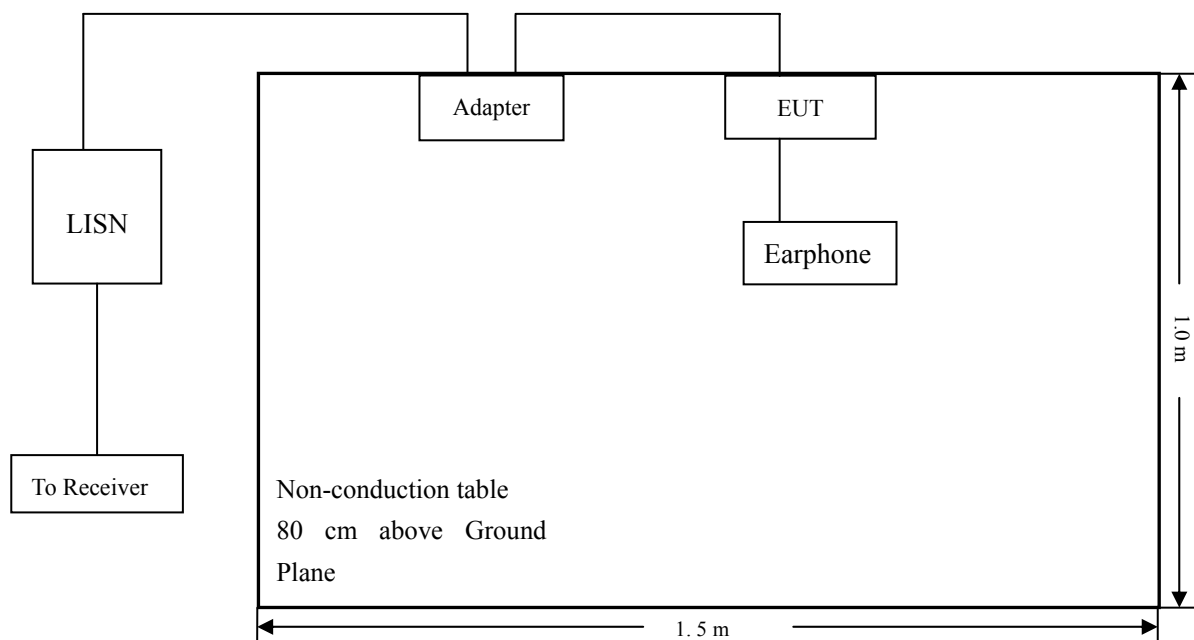
### 10.3 Test Procedure

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:

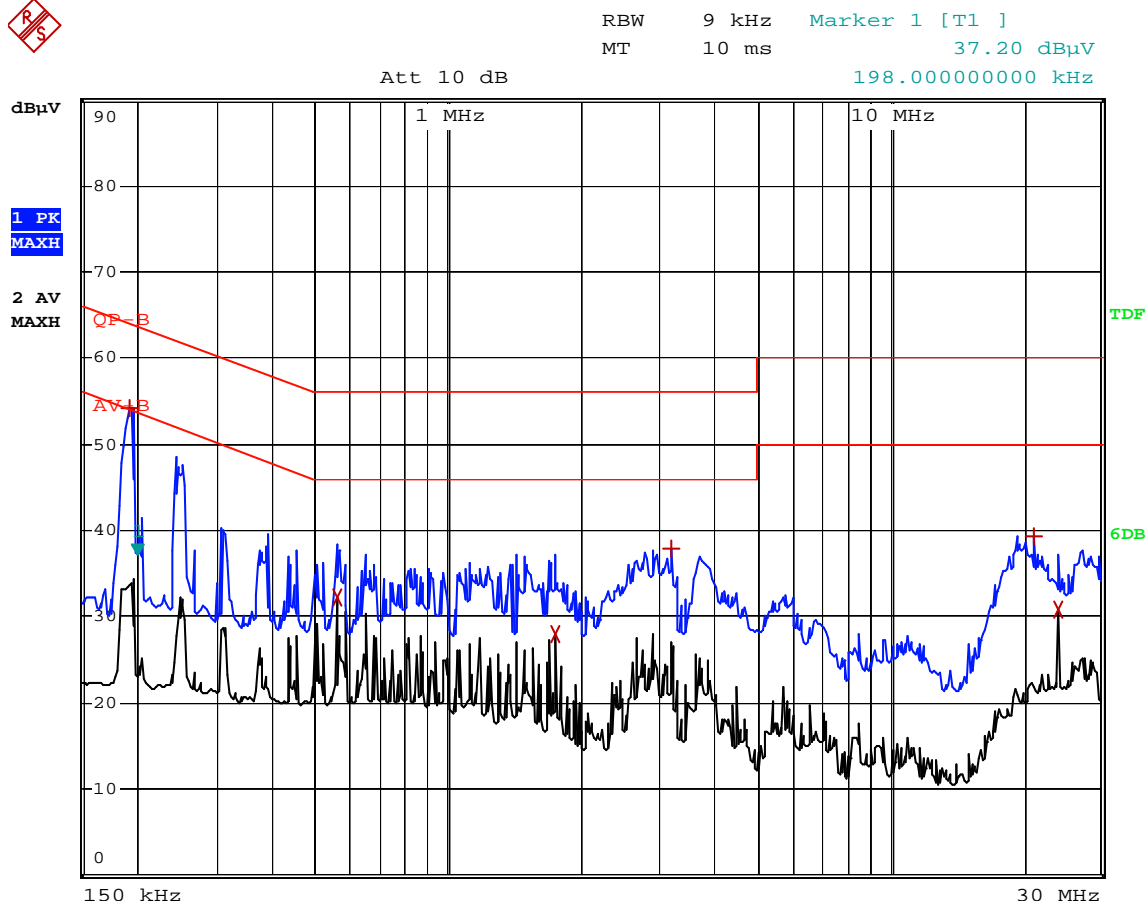
**-6.46 dB at 0.194 MHz in the Line mode, Pk detector, 0.15-30MHz**

## 10.8 Conducted Emissions Test Data

**Plot of Conducted Emissions Test Data**

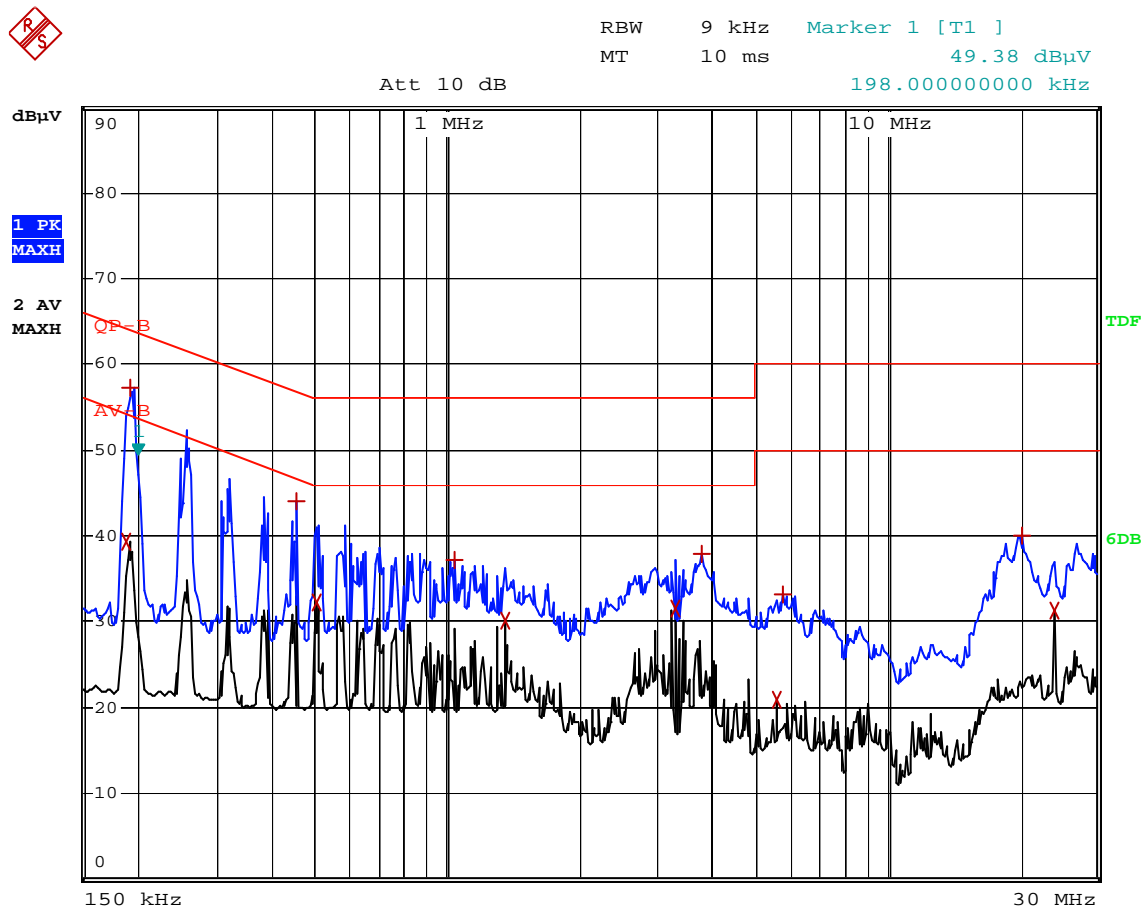
EUT: Tablet PC  
Tested Model: F-10HD2CORE  
Operating Condition: Charging&Playing&Wi-Fi Transmitting  
Comment: Input AC 120V/60Hz, Output DC 5V

Test Specification: Neutral

**EDIT PEAK LIST (Prescan Results)**

Trace1:	QP-B		
Trace2:	AV-B		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
1 Max Peak	194 kHz	54.27	-9.58
2 Average	562 kHz	32.13	-13.87
2 Average	1.754 MHz	28.07	-17.92
1 Max Peak	3.186 MHz	37.86	-18.13
1 Max Peak	21.194 MHz	39.25	-20.74
2 Average	23.998 MHz	30.94	-19.06

Test Specification: Line



EDIT PEAK LIST (Prescan Results)			
Trace1:	QP-B		
Trace2:	AV-B		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dBμV	DELTA LIMIT dB
2 Average	190 kHz	39.23	-14.80
1 Max Peak	194 kHz	57.39	-6.46
1 Max Peak	454 kHz	44.12	-12.68
2 Average	502 kHz	32.27	-13.72
1 Max Peak	1.038 MHz	37.25	-18.75
2 Average	1.362 MHz	30.03	-15.96
2 Average	3.31 MHz	31.47	-14.52
1 Max Peak	3.79 MHz	37.83	-18.16
2 Average	5.646 MHz	20.83	-29.16
1 Max Peak	5.79 MHz	33.27	-26.72
1 Max Peak	20.202 MHz	39.98	-20.01
2 Average	23.998 MHz	31.23	-18.76

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