

FCC Part 15C Measurement and Test Report

For

Spheris Digital Ltd.

Flat B, 18/F., Two Chinachem Plaza, 68 Connaught Road, Central

Hong Kong

FCC ID: YHO-PXT51016

FCC Rule(s):	<u>FCC Part 15C</u>	
Product Description:	<u>Wireless Digital Display</u>	
Tested Model:	<u>PXT510WR04G</u>	
Report No.:	<u>STR16058103I</u>	
Tested Date:	<u>2016-05-26 to 2016-06-22</u>	
Issued Date:	<u>2016-06-22</u>	
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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Spheris Digital Ltd.
 Address of applicant: Flat B, 18/F., Two Chinachem Plaza, 68 Connaught Road, Central Hong Kong

Manufacturer: Spheris Digital Ltd.
 Address of manufacturer: Flat B, 18/F., Two Chinachem Plaza, 68 Connaught Road, Central Hong Kong

General Description of EUT	
Product Name:	Wireless Digital Display
Trade Name:	Pix-Star
Model No.:	PXT510WR04G
Adding Model(s):	PXT510VR02G, PXT510GR02G, PXT510WR02G, PXT510VR04G, PXT510GR04G
Rated Voltage:	Adapter DC 12V
Power Adapter Model:	GME24A-120200FXR
	AC 100-240/50-60Hz,0.8A; DC 12V, 2A
<p><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 PXT510WR04G, but the circuit and the electronic construction do not change, declared by the manufacturer.</i></p>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz
RF Output Power:	12.43 dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 150Mbps
Quantity of Channels:	11
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	-2.0 dBi
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Spheris Digital Ltd in accordance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.207, 15.209 and 15.247 of the Federal Communication Commissions rules.

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

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

1.3 Test Methodology

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

1.4 Test Facility

FCC – Registration No.: 934118

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

Industry Canada (IC) Registration No.: 11464A

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

CNAS Registration No.: L4062

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

1.5 EUT Setup and Test Mode

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

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

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

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
DC cable	1.71	Unshielded	With Ferrite

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

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	$\pm 2.88\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2015-06-17	2016-06-16
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2015-06-17	2016-06-16
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2015-06-17	2016-06-16
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2015-06-17	2016-06-16
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2015-06-17	2016-06-16
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2015-06-17	2016-06-16
SEMT-1042	Horn Antenna	ETS	3117	00086197	2015-06-17	2016-06-16
SEMT-1121	Horn Antenna	ETS	3116B	00088203	2015-06-17	2016-06-16
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2015-06-17	2016-06-16
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2015-06-17	2016-06-16
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2015-06-17	2016-06-16
SEMT-1002	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
§15.205	Restricted Band of Operation	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 SAR Report.

4. Antenna Requirement

4.1 Standard Applicable

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

4.2 Evaluation Information

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

5. Power Spectral Density

5.1 Standard Applicable

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

5.2 Test Procedure

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

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- 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

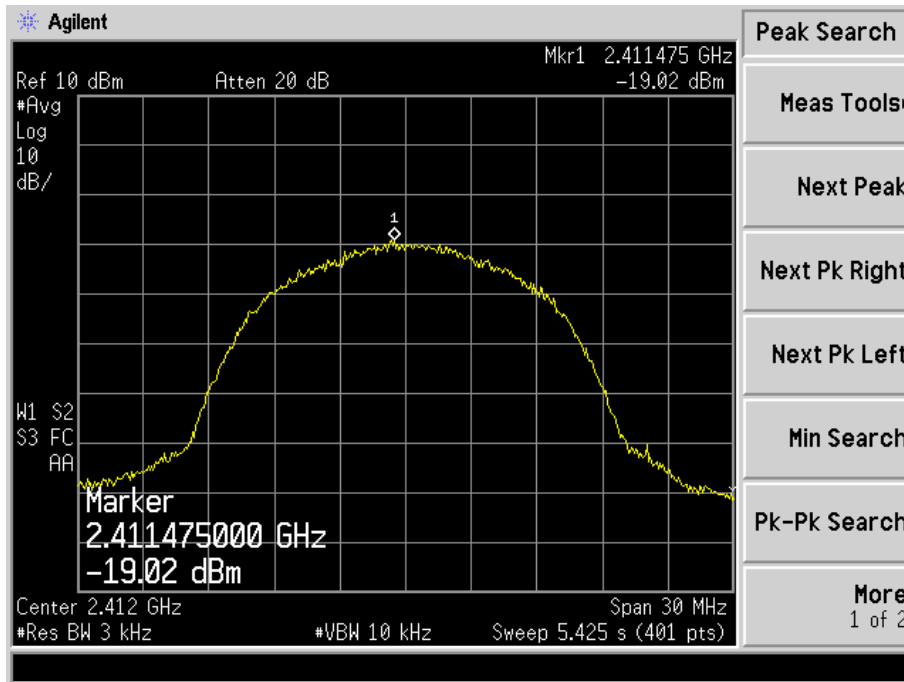
Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

5.4 Summary of Test Results/Plots

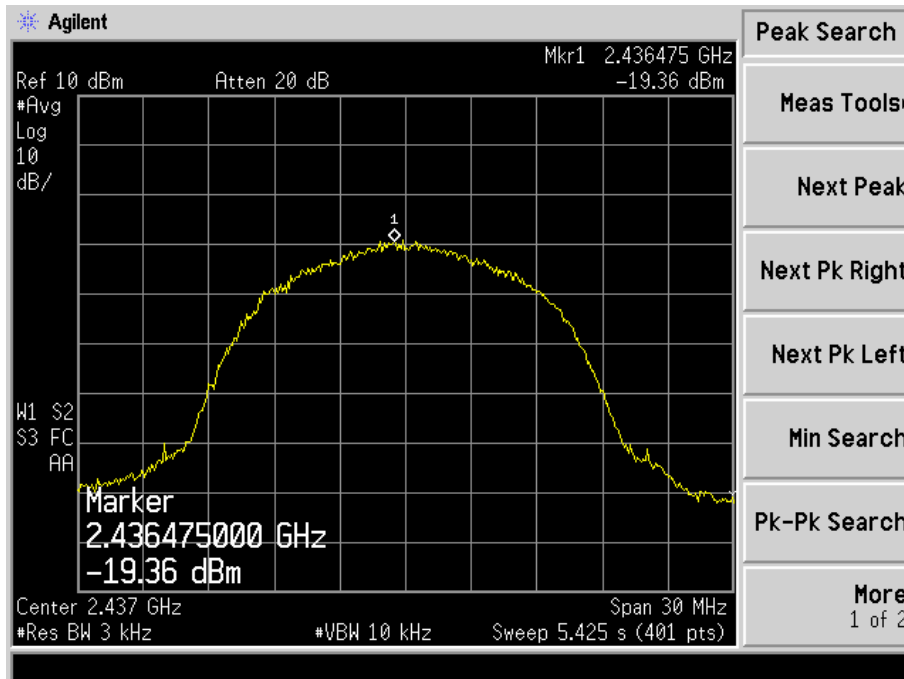
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b	2412	-19.02	8
	2437	-19.36	8
	2462	-20.57	8
802.11g	2412	-24.70	8
	2437	-25.10	8
	2462	-25.40	8
802.11n HT20	2412	-26.18	8
	2437	-26.77	8
	2462	-26.63	8

Please refer to the following test plots:

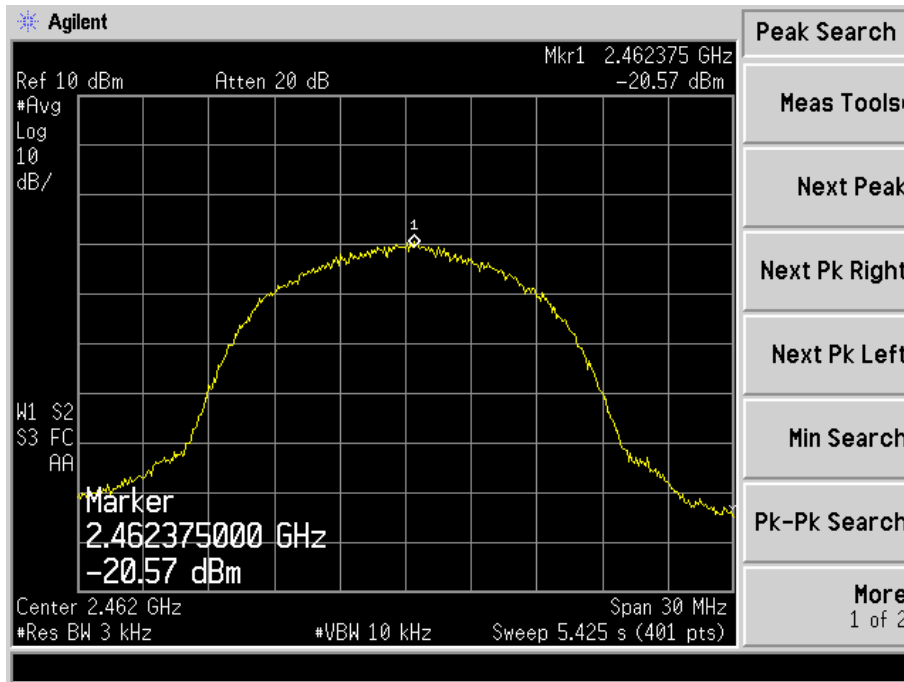
802.11b-Low Channel



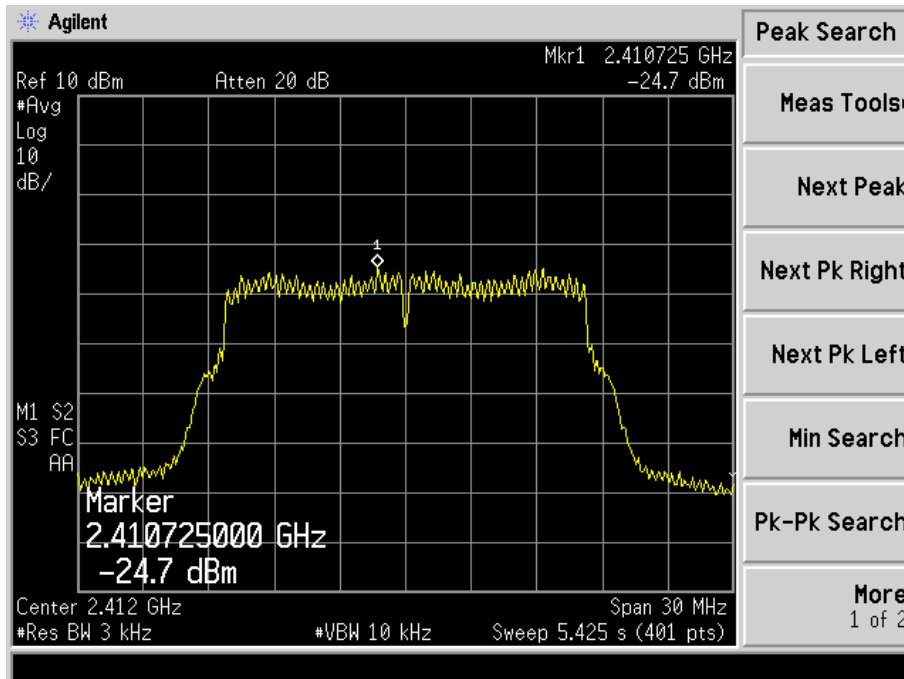
802.11b-Middle Channel



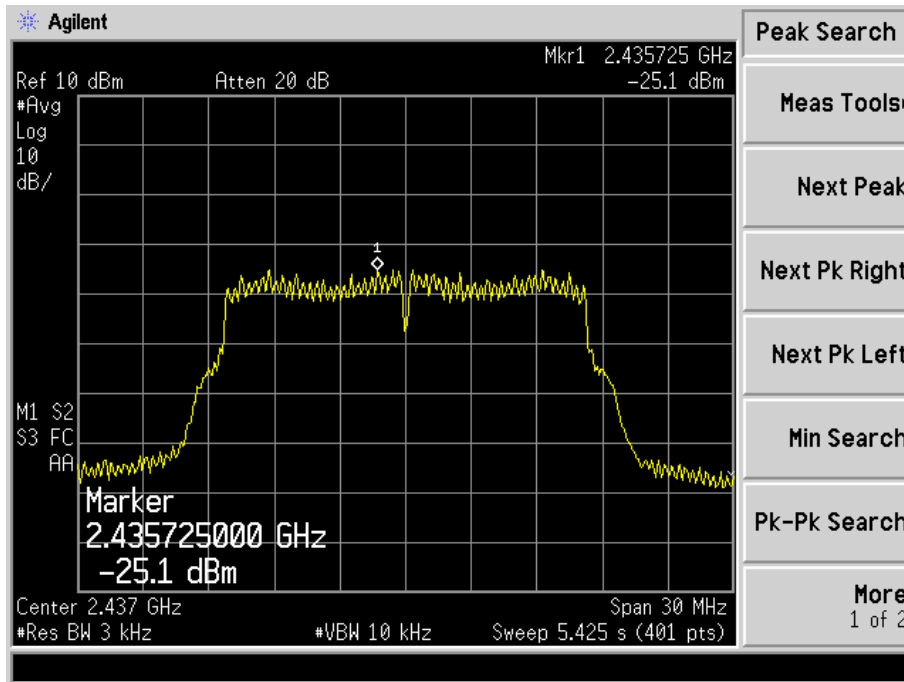
802.11b-High Channel



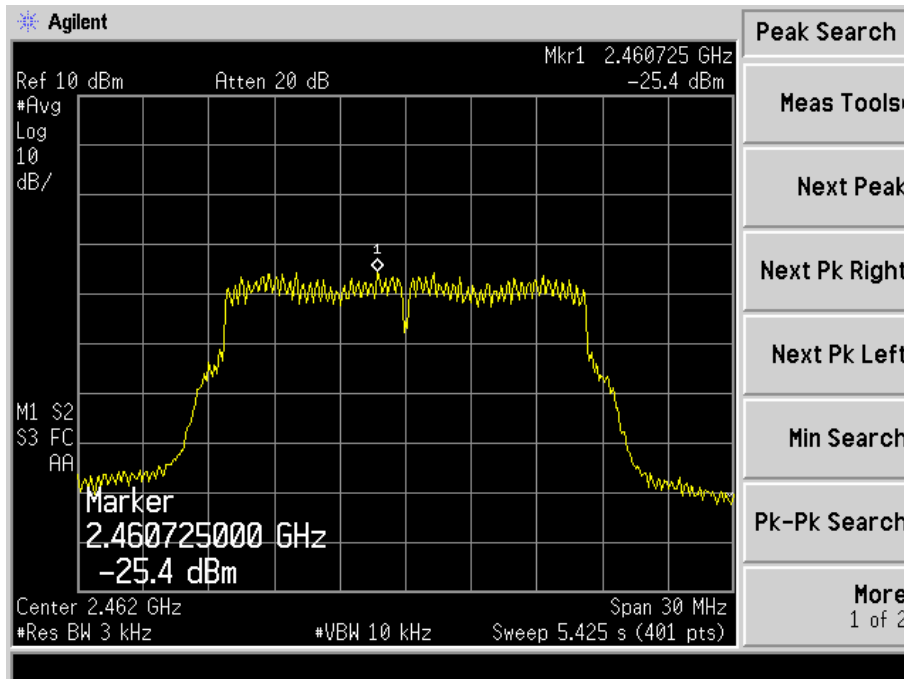
802.11g-Low Channel



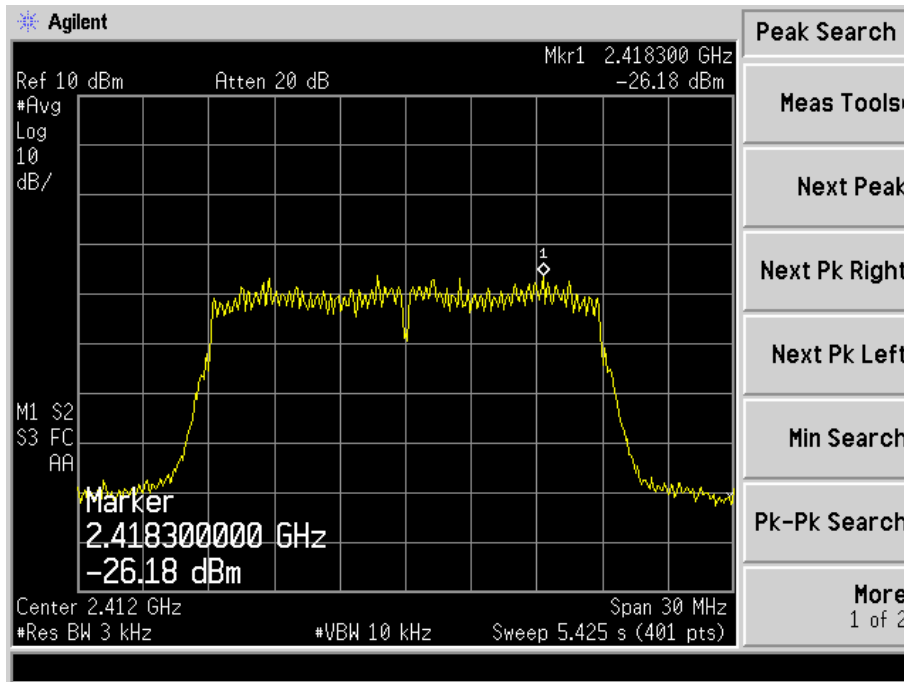
802.11g-Middle Channel



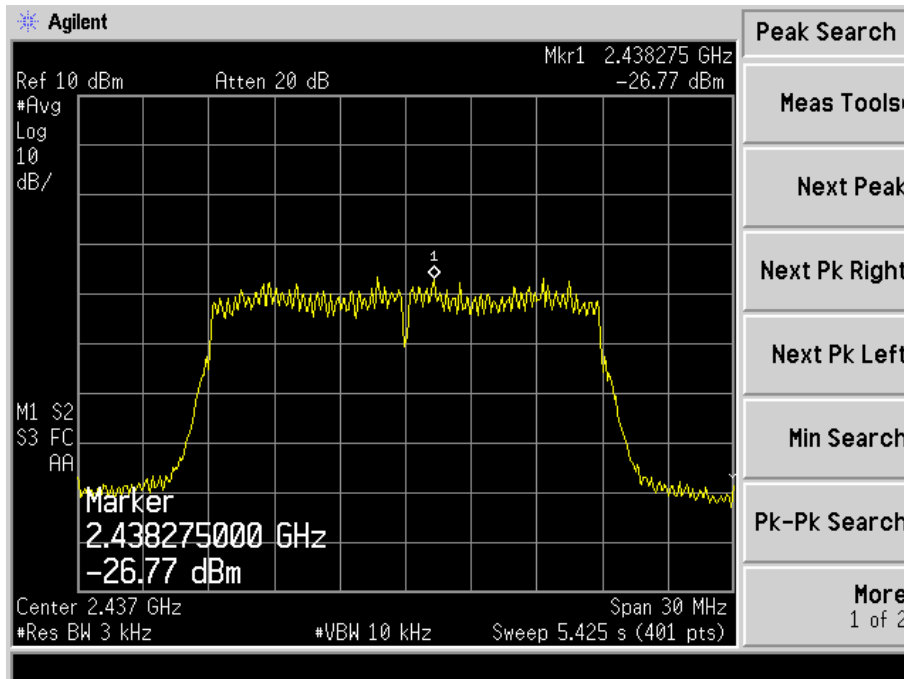
802.11g-High Channel



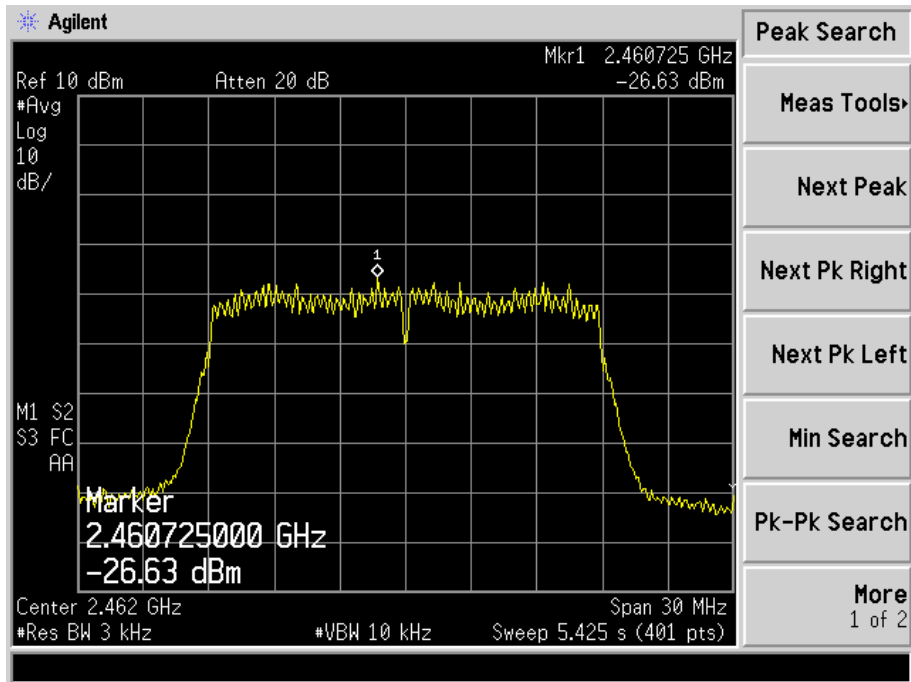
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

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

6.2 Test 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

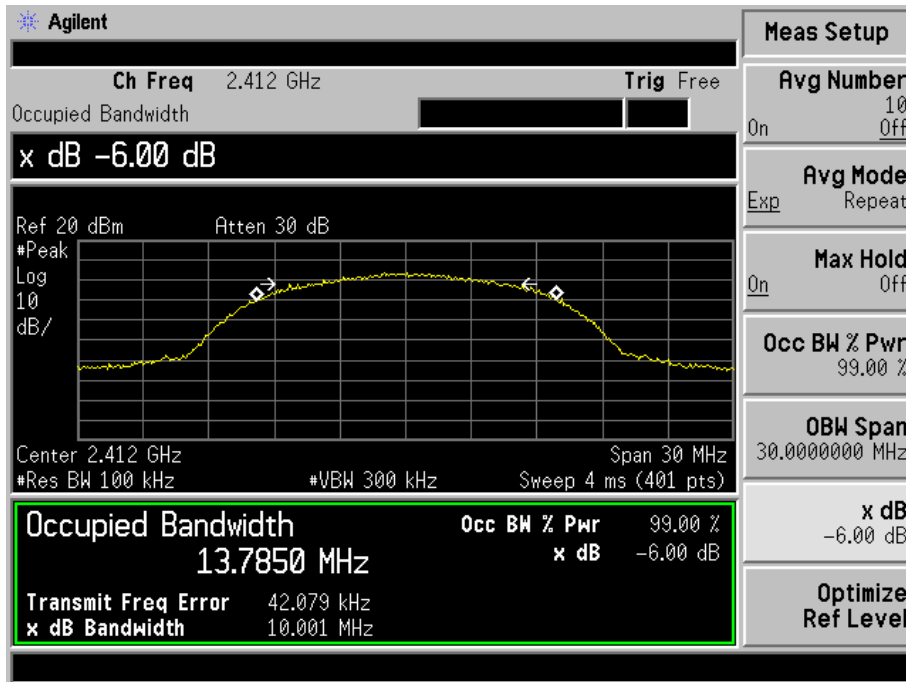
Temperature:	25° C
Relative Humidity:	53%
ATM Pressure:	1018 mbar

6.4 Summary of Test Results/Plots

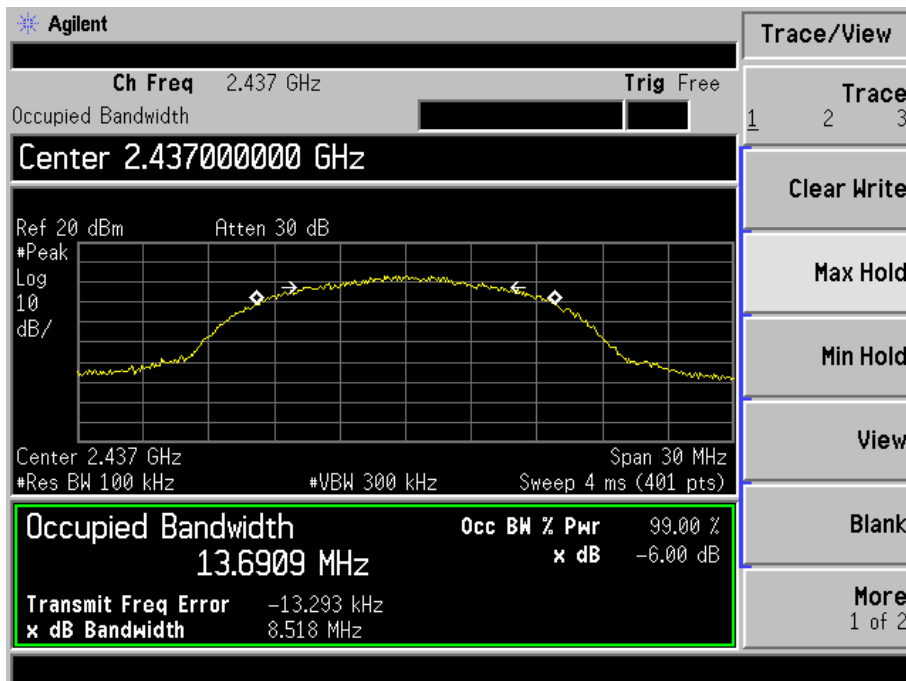
Test Mode	Test Channel MHz	6 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz
802.11b	2412	10001	13785.0	≥ 500
	2437	8518	13690.9	≥ 500
	2462	8982	13814.2	≥ 500
802.11g	2412	15829	16369.9	≥ 500
	2437	16343	16375.5	≥ 500
	2462	16417	16389.7	≥ 500
802.11n-HT20	2412	17687	17631.8	≥ 500
	2437	17704	17637.2	≥ 500
	2462	17638	17628.8	≥ 500

Please refer to the following test plots:

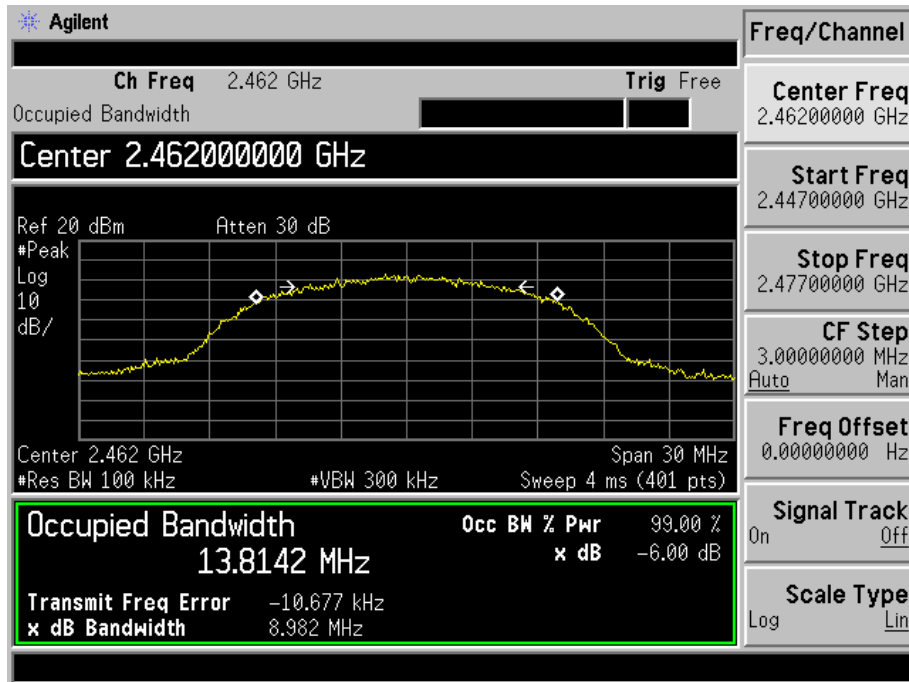
802.11b-Low Channel



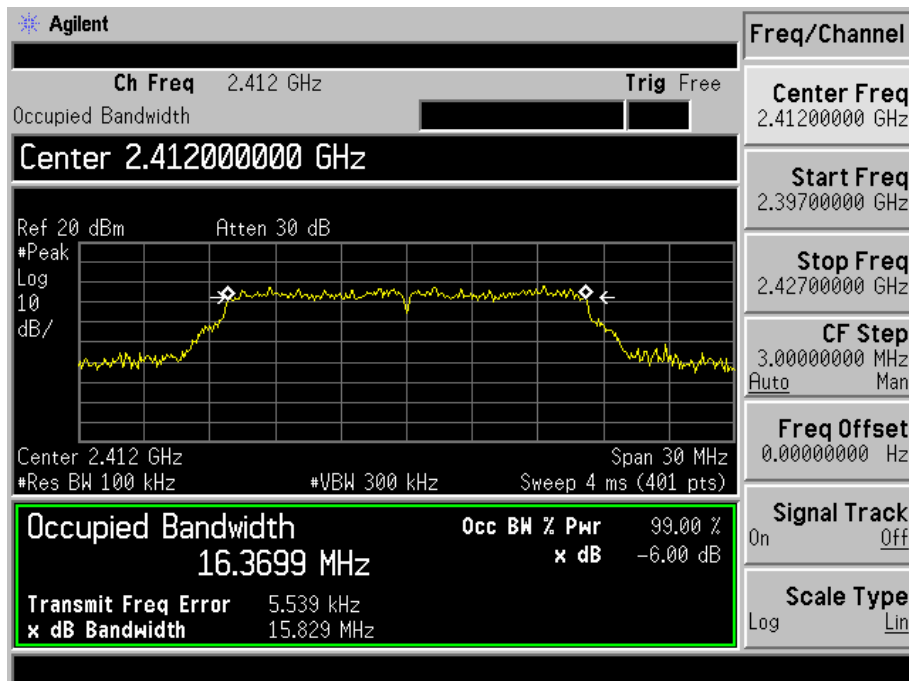
802.11b-Middle Channel



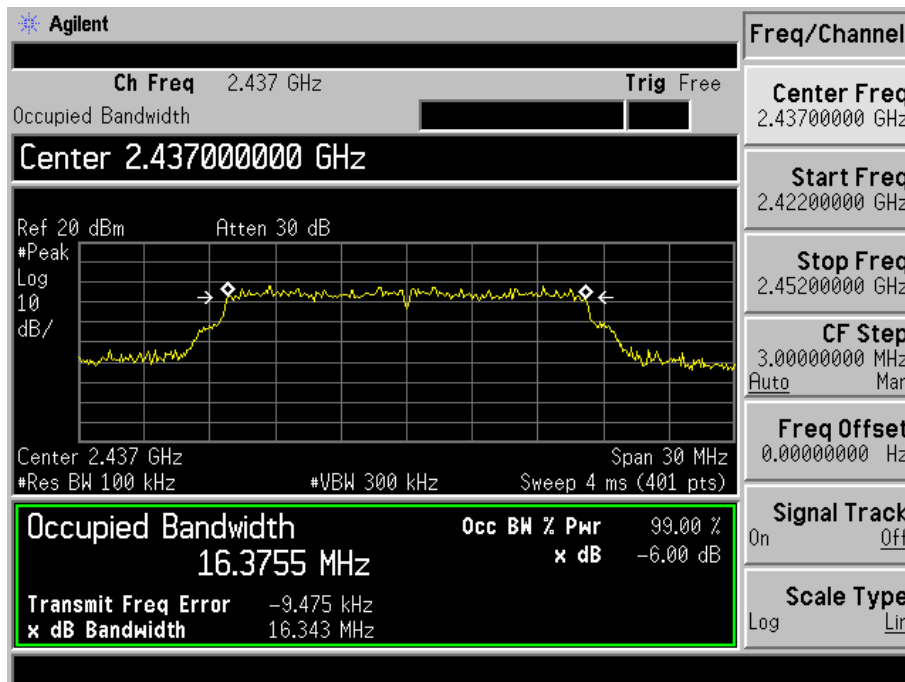
802.11b-High Channel



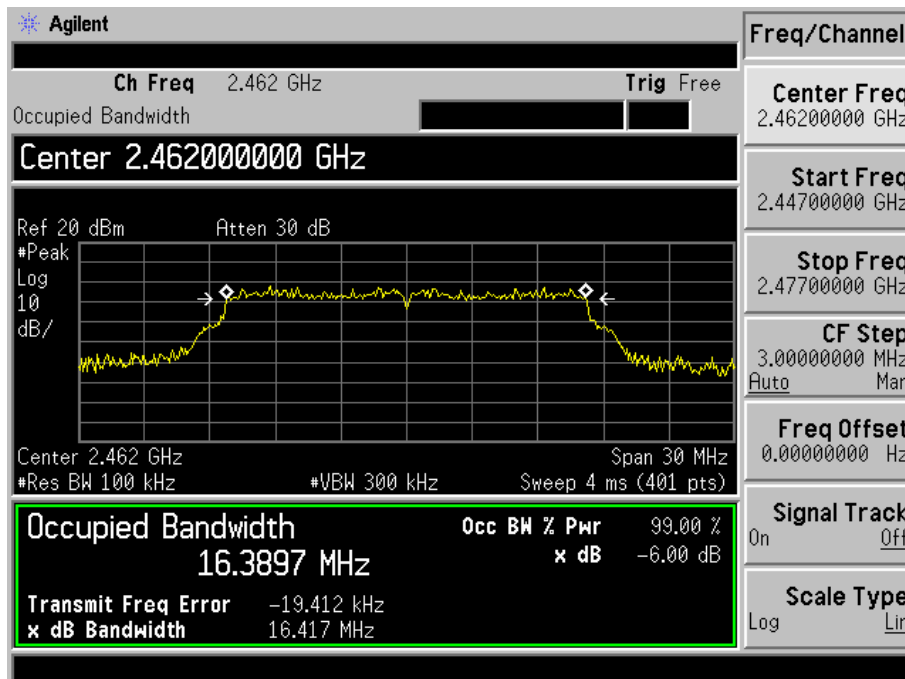
802.11g-Low Channel



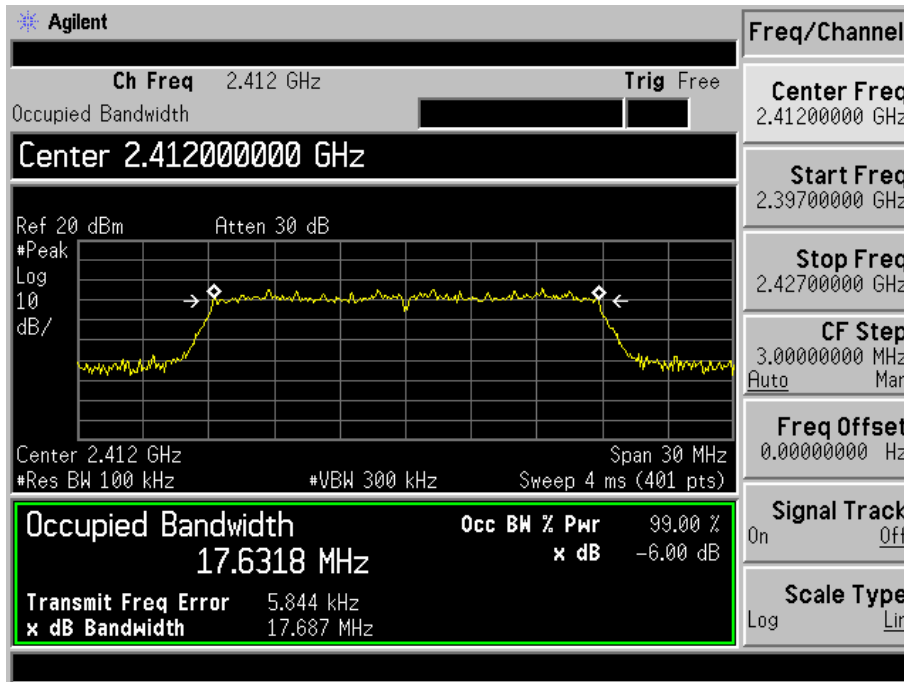
802.11g-Middle Channel



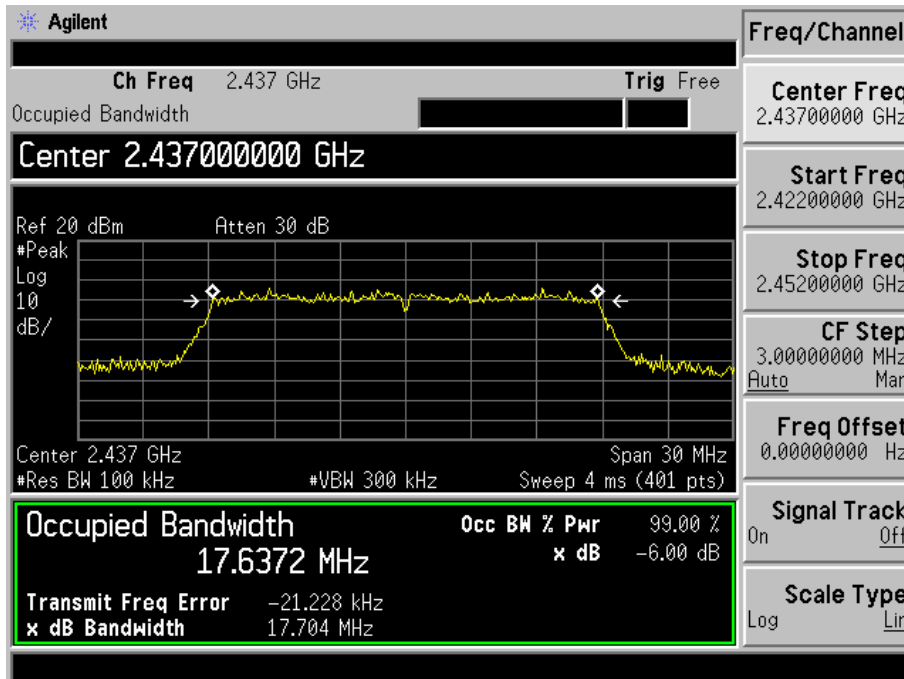
802.11g-High Channel



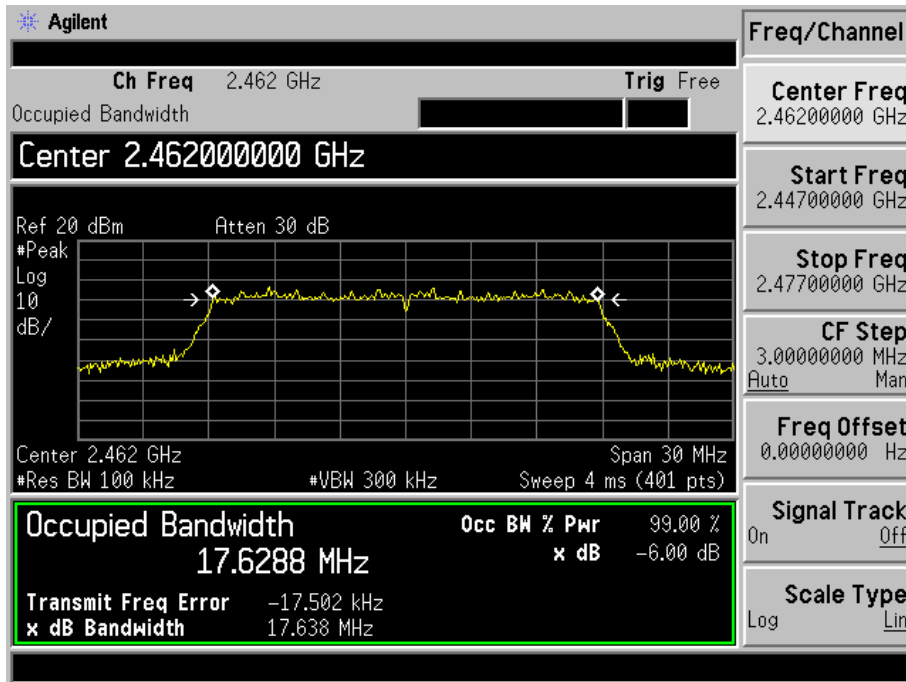
802.11n-HT20-Low Channel



802.11n-HT20-Middle Channel



802.11n-HT20-High Channel



7. RF Output Power

7.1 Standard Applicable

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

7.2 Test Procedure

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

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing \leq 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 $\geq 98 \%$, 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

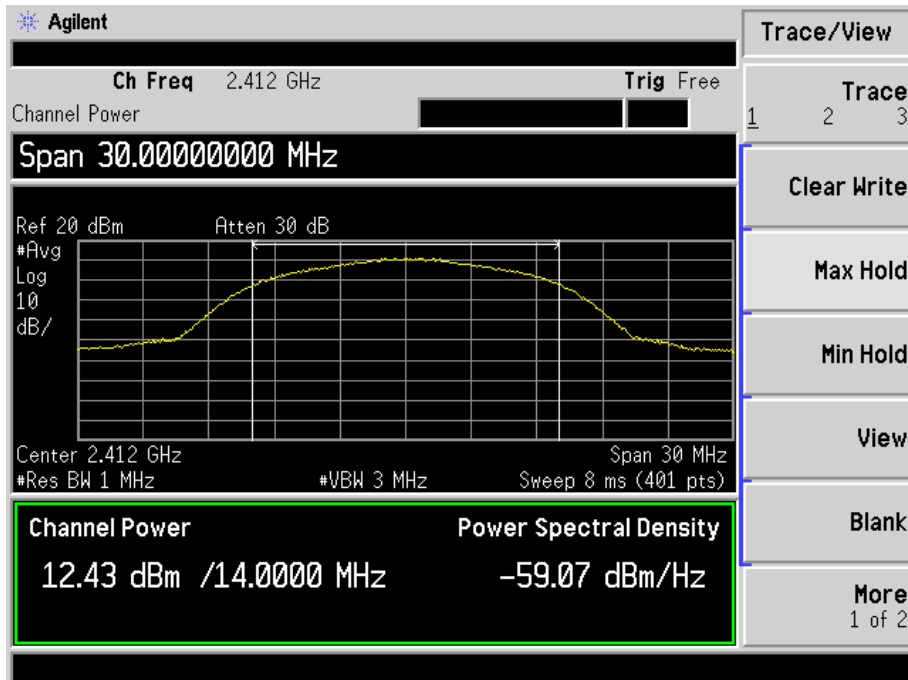
Temperature:	26° C
Relative Humidity:	57%
ATM Pressure:	1011 mbar

7.4 Summary of Test Results/Plots

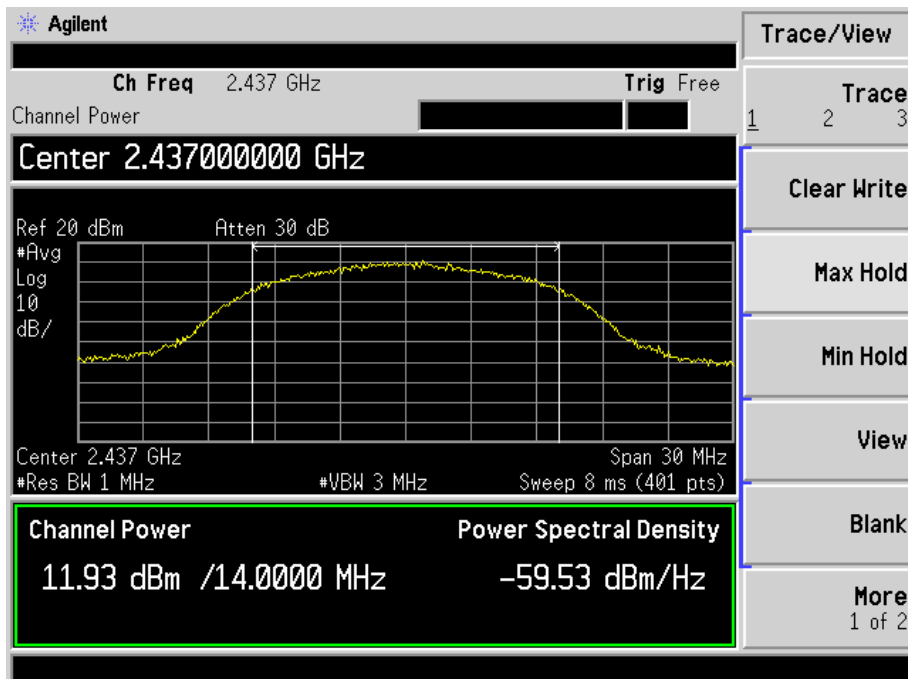
Test Mode	Frequency MHz	Reading dBm	Output Power mW	Limit mW
802.11b_11Mbps	2412	12.43	17.50	1000
	2437	11.93	15.60	1000
	2462	11.96	15.70	1000
802.11g_54Mbps	2412	7.06	5.08	1000
	2437	7.48	5.60	1000
	2462	7.69	5.87	1000
802.11n HT20_MCS7	2412	5.14	3.27	1000
	2437	4.58	2.87	1000
	2462	4.07	2.55	1000

Please refer to the following test plots:

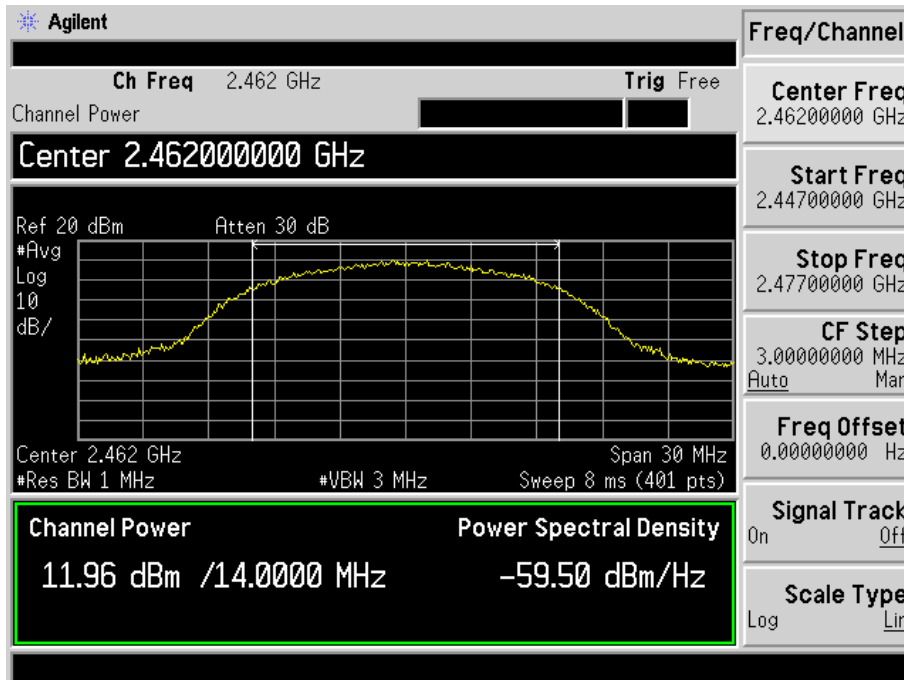
802.11b-11Mbps-Low Channel



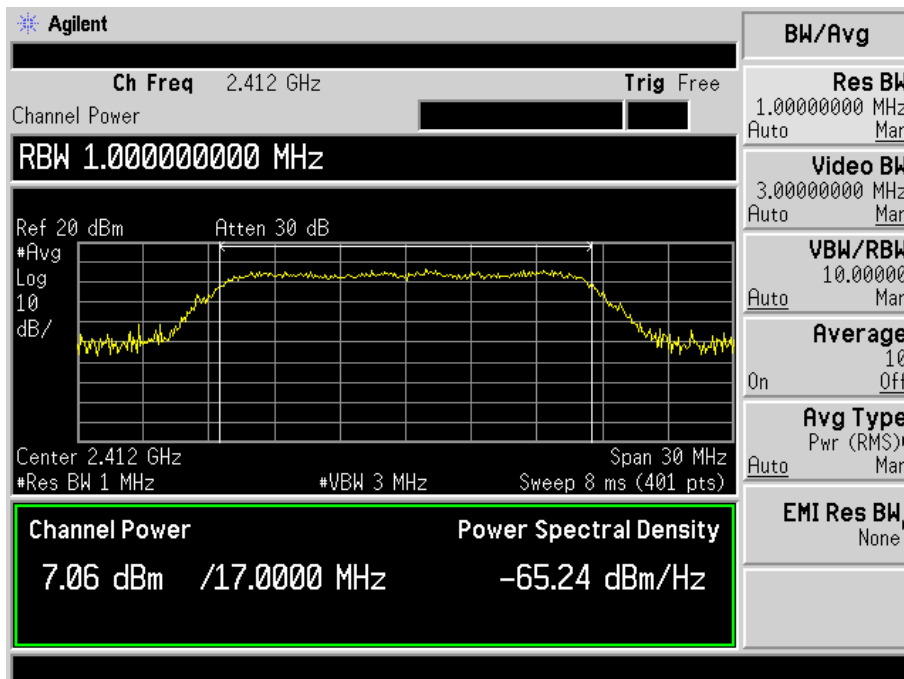
802.11b -11Mbps-Middle Channel



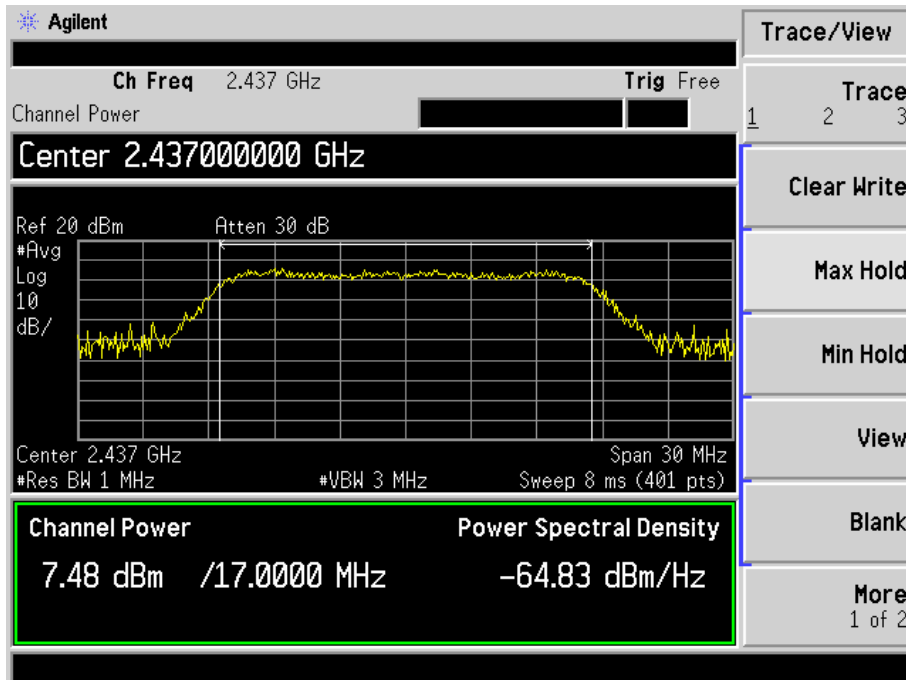
802.11b -11Mbps-High Channel



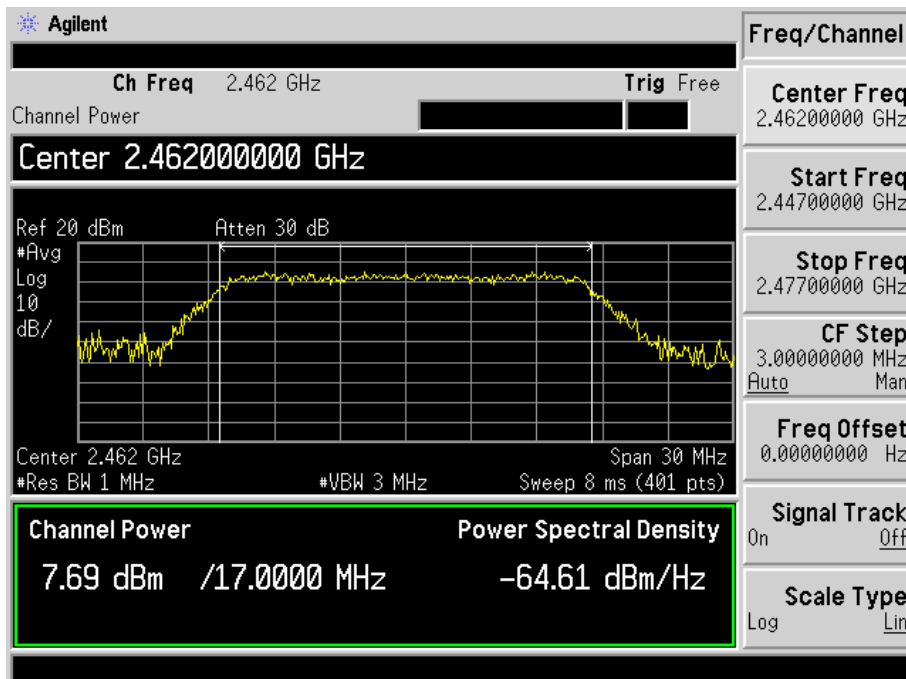
802.11g-54Mbps-Low Channel



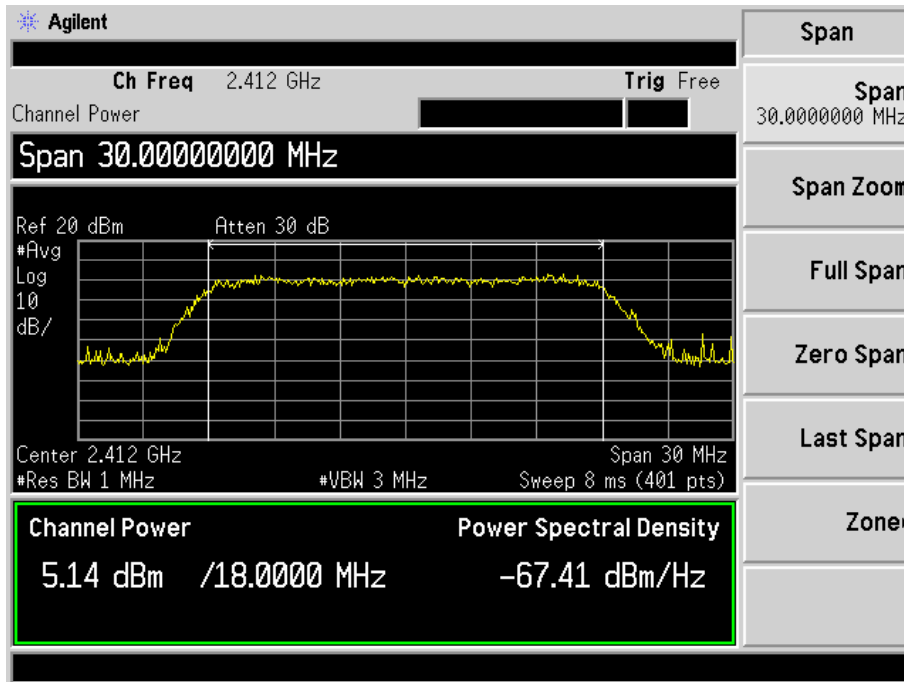
802.11g -54Mbps-Middle Channel



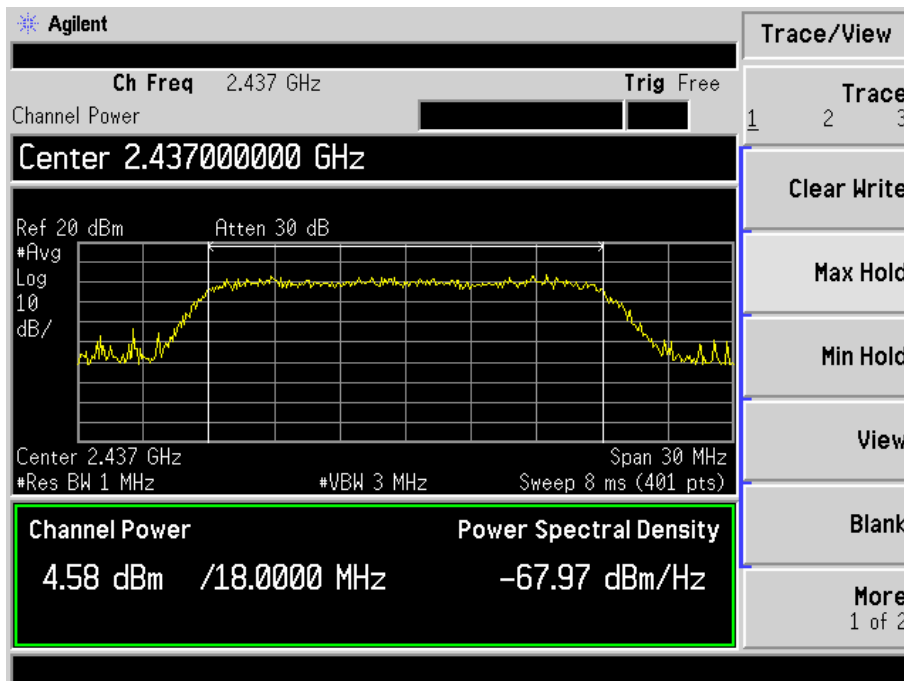
802.11g -54Mbps-High Channel



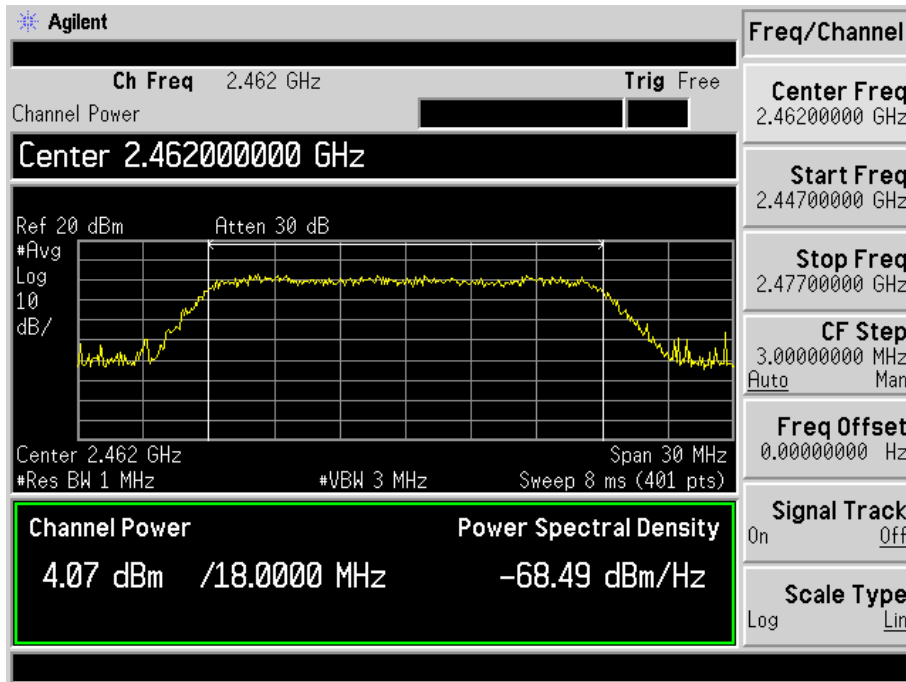
802.11n-HT20-MCS7-Low Channel



802.11n-HT20-MCS7-Middle Channel



802.11n-HT20-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Standard Applicable

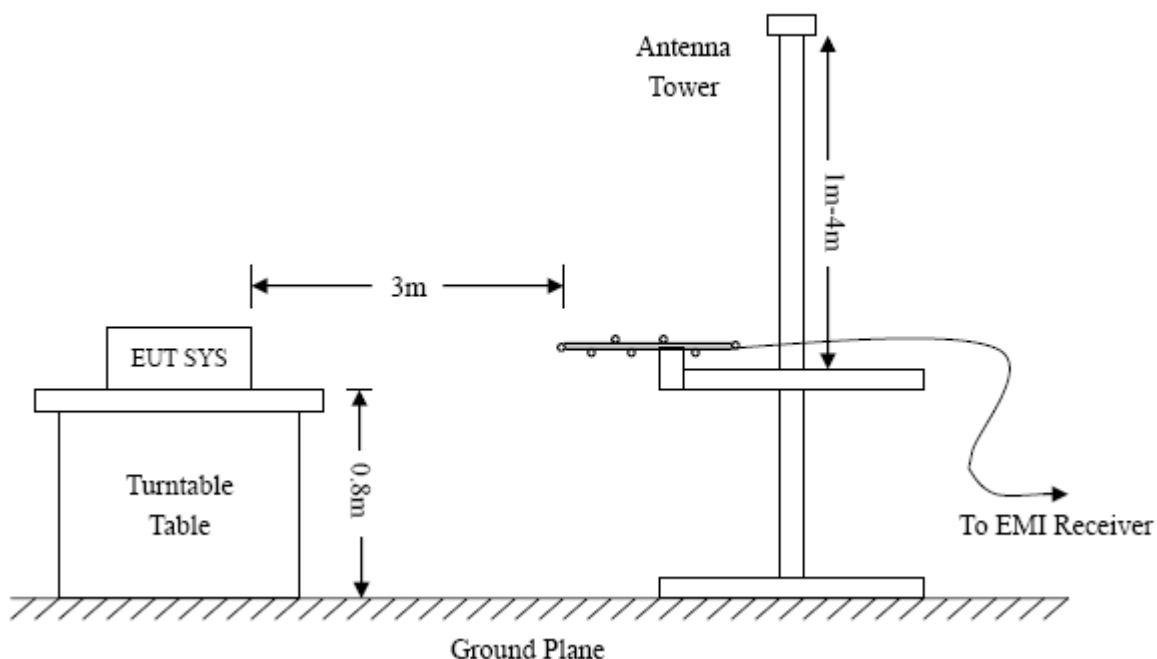
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

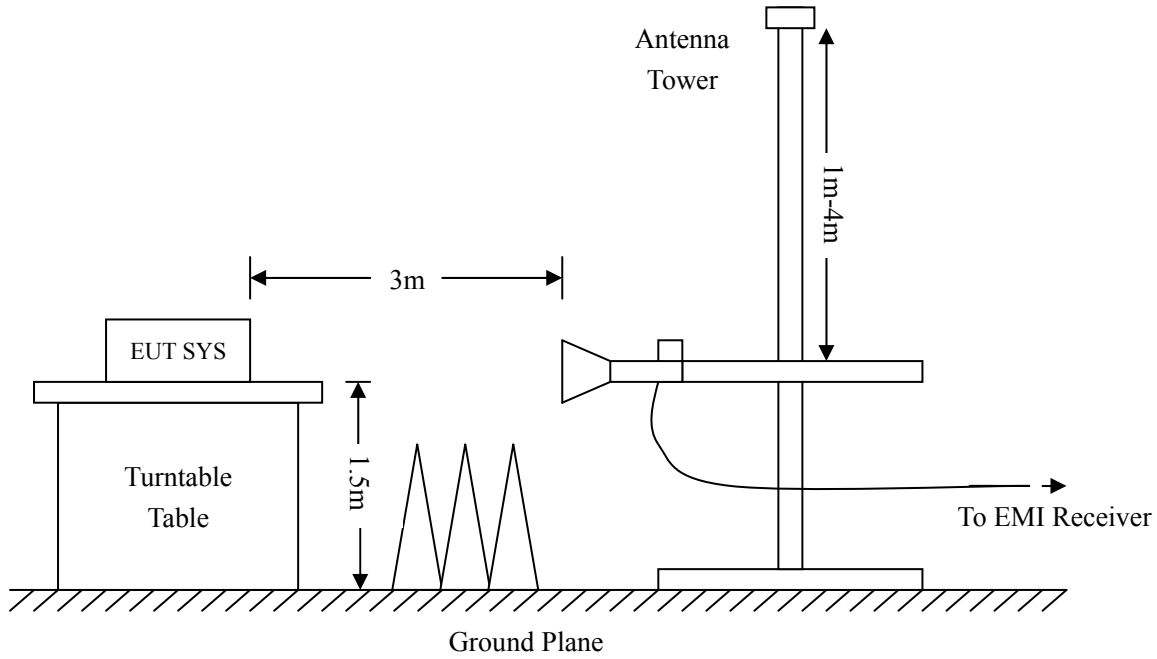
The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

8.2 Test Procedure

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

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





Frequency :9kHz-30MHz
 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

8.3 Corrected Amplitude & Margin Calculation

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

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

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:

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

8.4 Environmental Conditions

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

8.5 Summary of Test Results/Plots

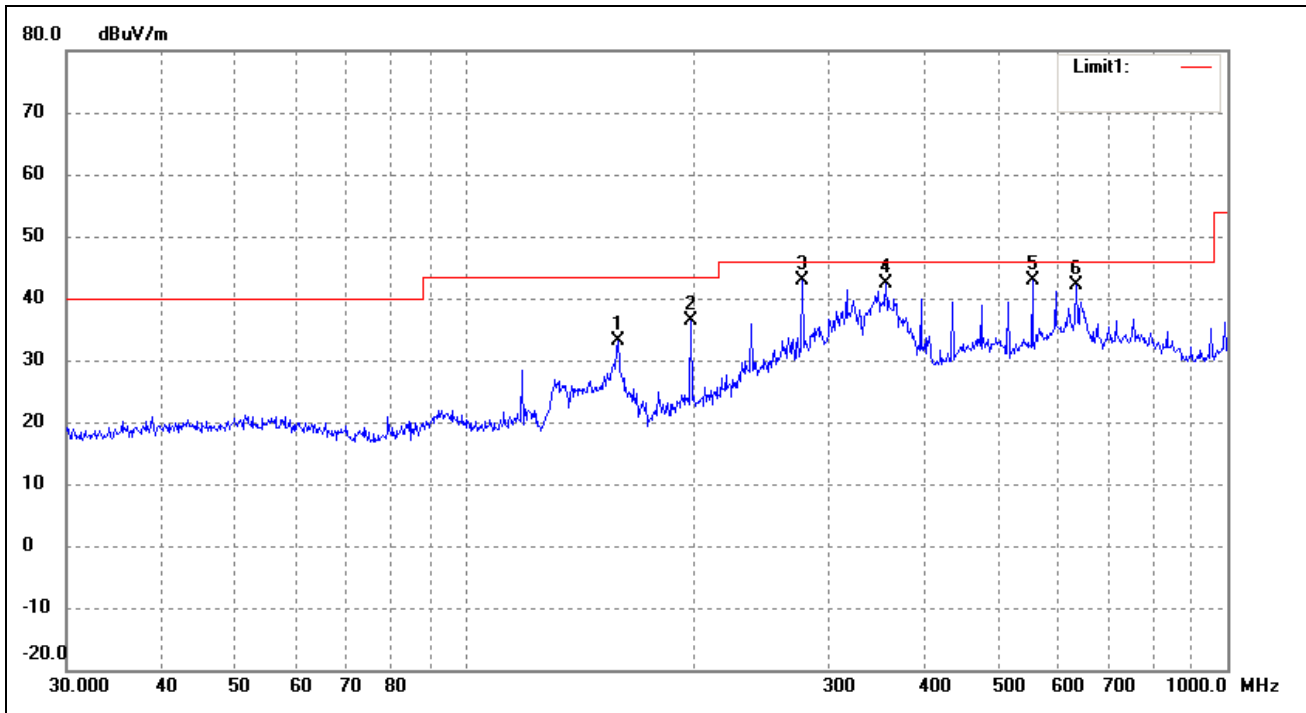
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

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

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

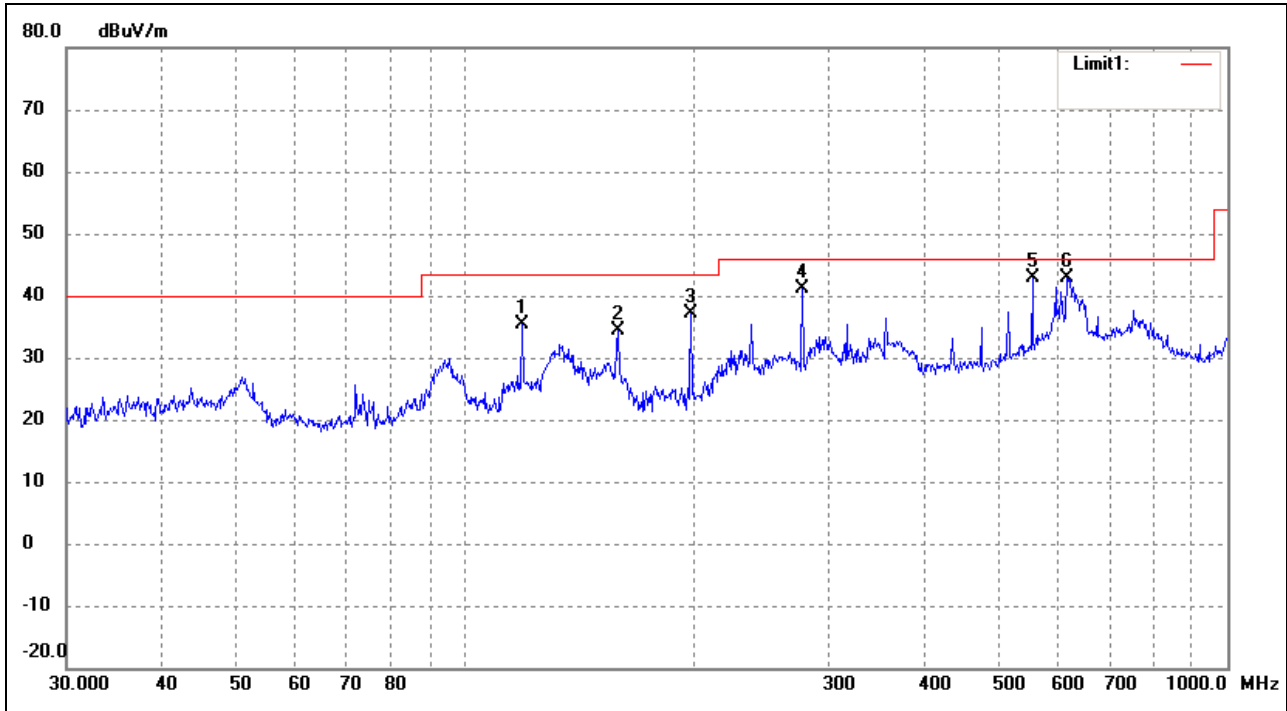
EUT: *Wireless Digital Display*
 Tested Model: *PXT510WR04G*
 Operating Condition: *802.11b Transmitting Low Channel-2412MHz*
 Comment: *AC 120V/60Hz; Adapter DC 12V*

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	158.6673	30.76	2.44	33.20	43.50	-10.30	254	100	peak
2	197.8925	33.09	3.26	36.35	43.50	-7.15	113	100	peak
3	277.0935	32.00	10.92	42.92	46.00	-3.08	284	100	peak
4	356.6757	30.51	11.82	42.33	46.00	-3.67	360	100	peak
5	554.8251	28.80	13.96	42.76	46.00	-3.24	100	100	peak
6	633.9071	24.22	17.86	42.08	46.00	-3.92	147	100	peak

Test Specification: Vertical

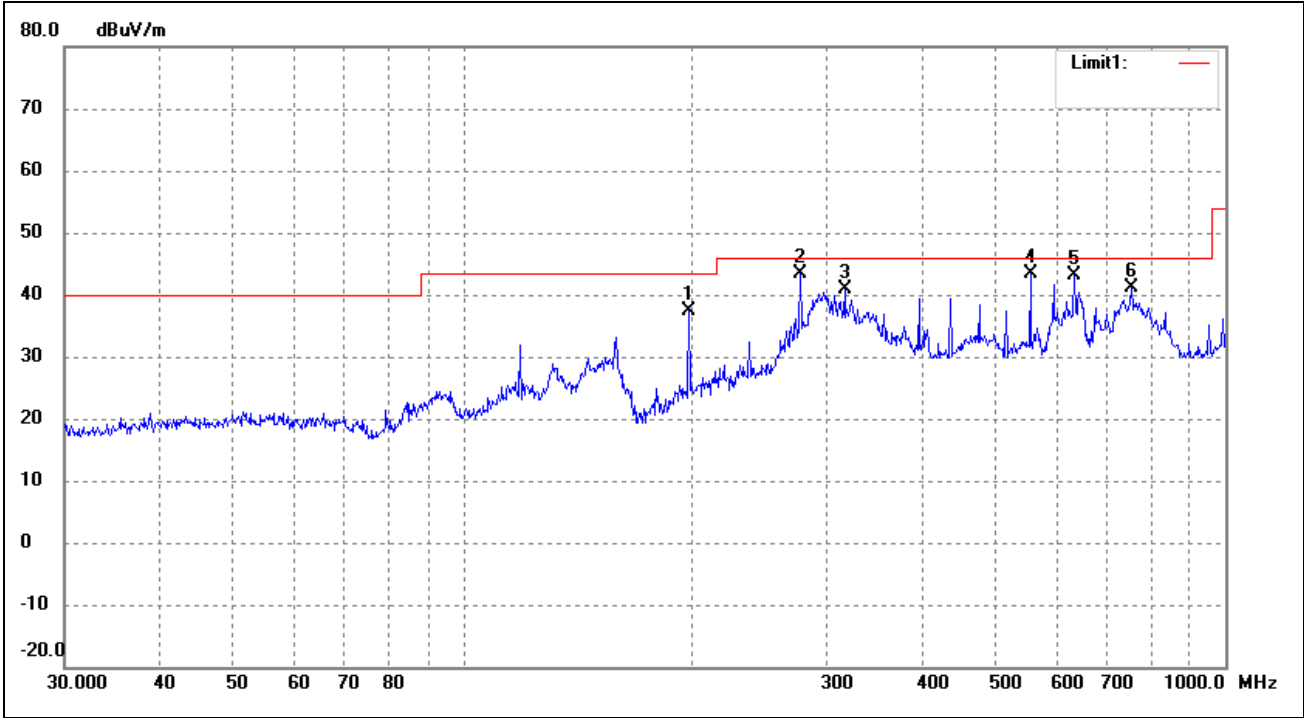


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.49	4.82	35.31	43.50	-8.19	114	100	peak
2	158.6673	31.88	2.44	34.32	43.50	-9.18	270	100	peak
3	197.8925	33.90	3.26	37.16	43.50	-6.34	360	100	peak
4	277.0935	30.20	10.92	41.12	46.00	-4.88	116	100	peak
5	554.8251	28.82	13.96	42.78	46.00	-3.22	257	100	peak
6	616.3718	25.34	17.61	42.95	46.00	-3.05	131	100	peak

Operating Condition: 802.11b Transmitting Middle Channel-2437MHz

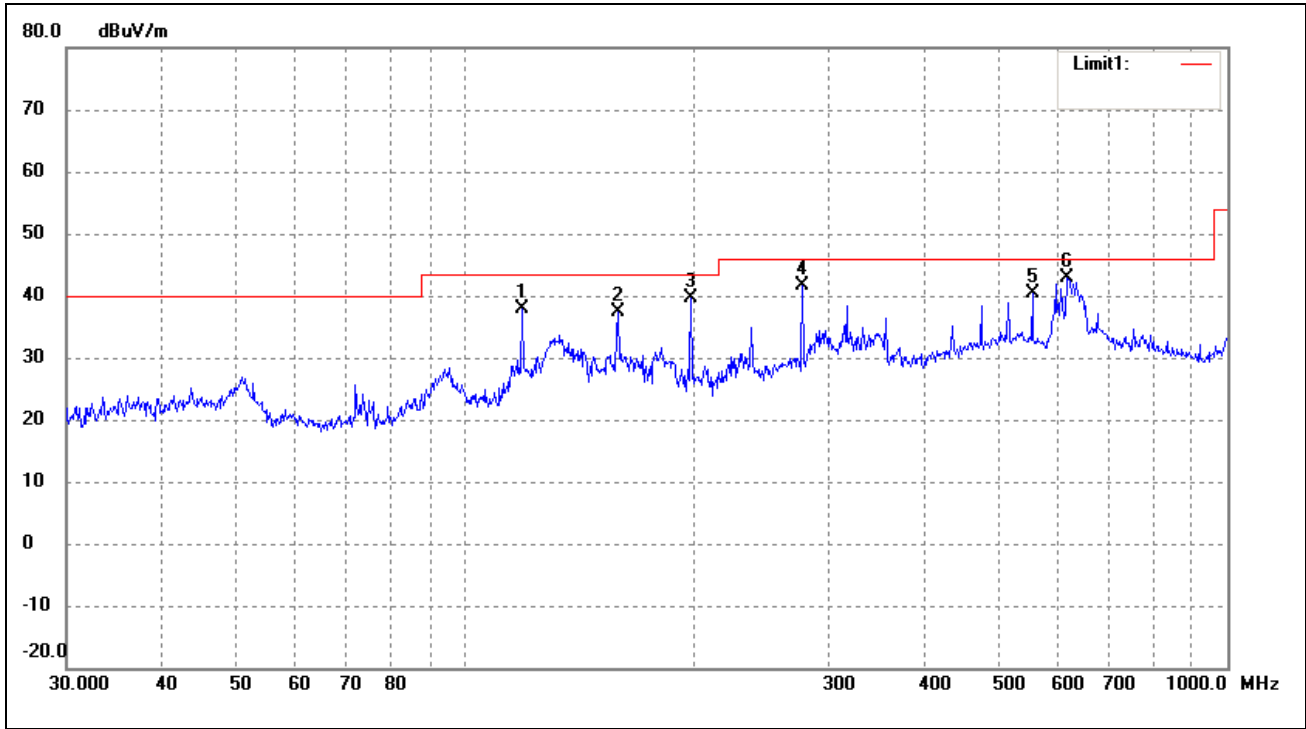
Comment: AC 120V/60Hz; Adapter DC 12V

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	197.8925	34.09	3.26	37.35	43.50	-6.15	178	100	peak
2	277.0935	32.50	10.92	43.42	46.00	-2.58	224	100	peak
3	316.5889	28.89	11.96	40.85	46.00	-5.15	160	100	peak
4	554.8251	29.30	13.96	43.26	46.00	-2.74	290	100	peak
5	633.9071	25.22	17.86	43.08	46.00	-2.92	247	100	peak
6	752.7432	22.73	18.47	41.20	46.00	-4.80	238	100	peak

Test Specification: Vertical

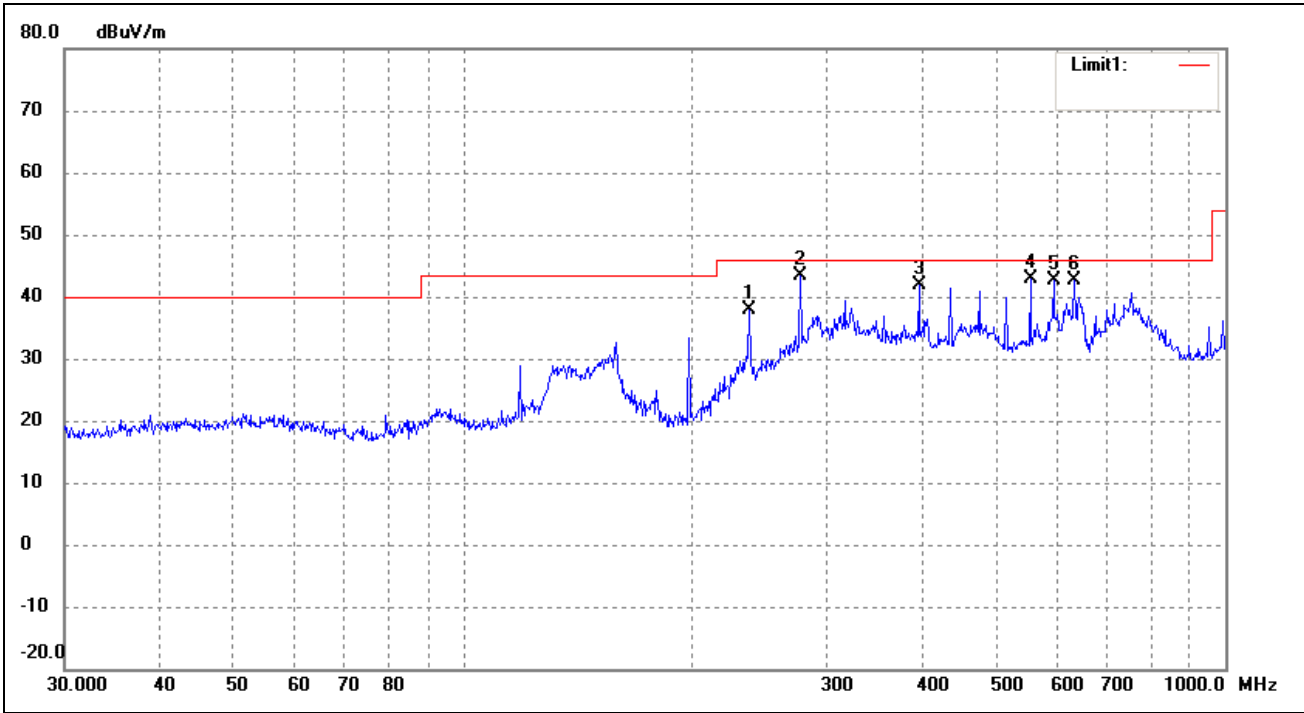


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	32.99	4.82	37.81	43.50	-5.69	256	100	peak
2	158.6673	34.88	2.44	37.32	43.50	-6.18	147	100	peak
3	197.8925	36.40	3.26	39.66	43.50	-3.84	162	100	peak
4	277.0935	30.70	10.92	41.62	46.00	-4.38	139	100	peak
5	554.8251	26.32	13.96	40.28	46.00	-5.72	257	100	peak
6	616.3718	25.34	17.61	42.95	46.00	-3.05	130	100	peak

Operating Condition: 802.11b Transmitting High Channel-2462MHz

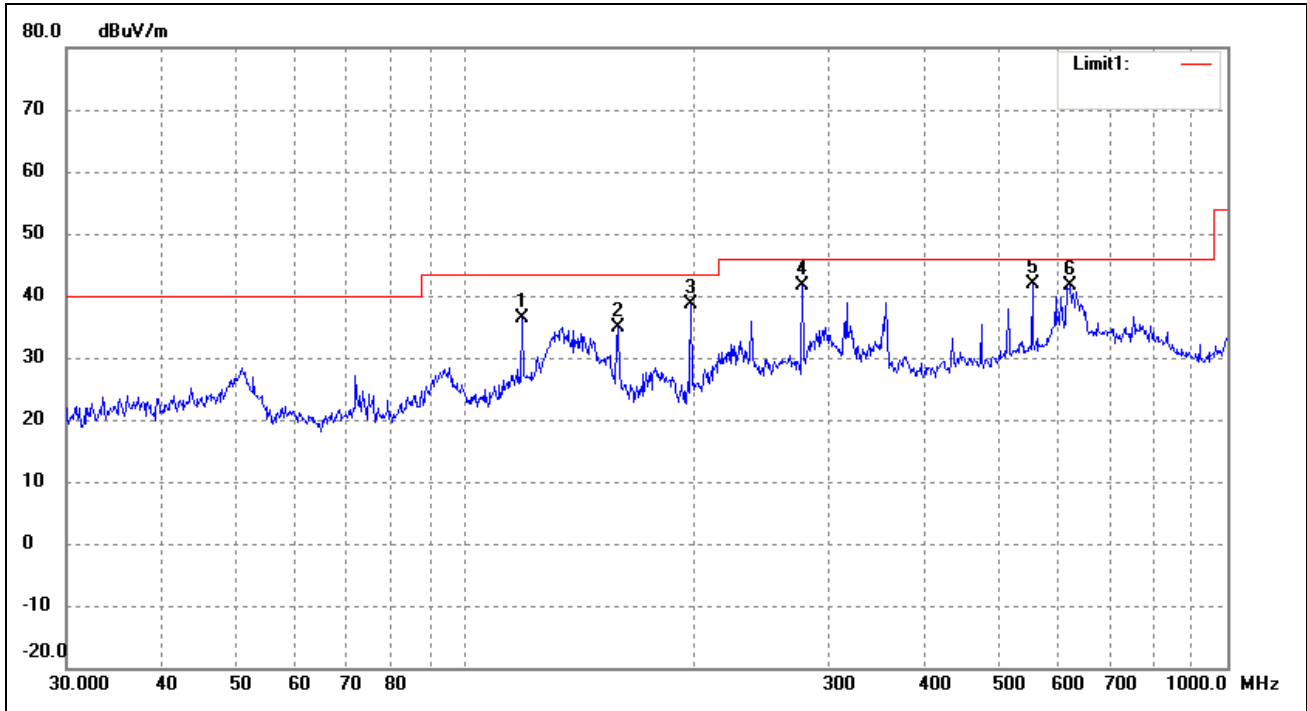
Comment: AC 120V/60Hz; Adapter DC 12V

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	237.4755	29.13	8.77	37.90	46.00	-8.10	176	100	peak
2	277.0935	32.50	10.92	43.42	46.00	-2.58	255	100	peak
3	396.2413	29.26	12.51	41.77	46.00	-4.23	360	100	peak
4	554.8251	28.80	13.96	42.76	46.00	-3.24	178	100	peak
5	595.1326	24.82	17.85	42.67	46.00	-3.33	249	100	peak
6	633.9071	24.72	17.86	42.58	46.00	-3.42	162	100	peak

Test Specification: Vertical

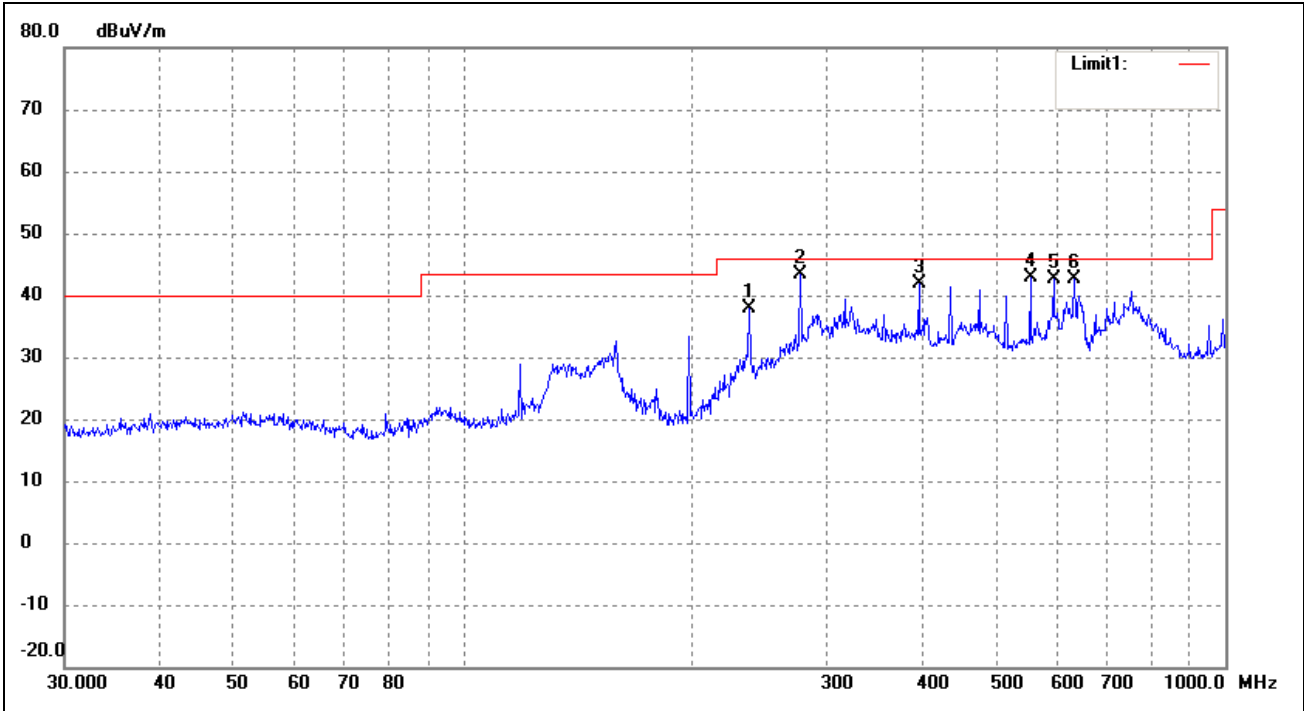


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	31.49	4.82	36.31	43.50	-7.19	169	100	peak
2	158.6673	32.38	2.44	34.82	43.50	-8.68	225	100	peak
3	197.8925	35.40	3.26	38.66	43.50	-4.84	160	100	peak
4	277.0935	30.70	10.92	41.62	46.00	-4.38	310	100	peak
5	554.8251	27.82	13.96	41.78	46.00	-4.22	179	100	peak
6	622.8899	24.15	17.47	41.62	46.00	-4.38	153	100	peak

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

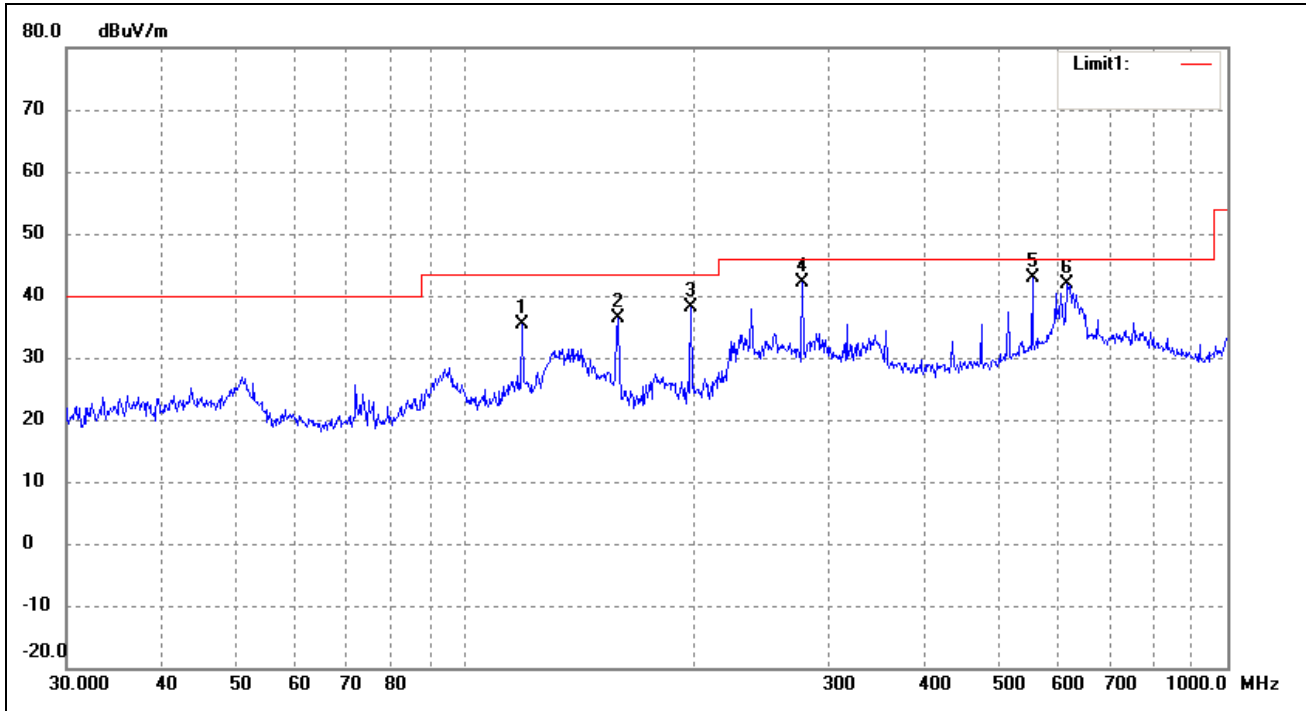
EUT: *Wireless Digital Display*
 Tested Model: *PXT510WR04G*
 Operating Condition: *802.11g Transmitting Low Channel-2412MHz*
 Comment: *AC 120V/60Hz; Adapter DC 12V*

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	237.4755	29.13	8.77	37.90	46.00	-8.10	174	100	peak
2	277.0935	32.50	10.92	43.42	46.00	-2.58	160	100	peak
3	396.2412	29.26	12.51	41.77	46.00	-4.23	320	100	peak
4	554.8251	28.80	13.96	42.76	46.00	-3.24	230	100	peak
5	595.1326	24.82	17.85	42.67	46.00	-3.33	183	100	peak
6	633.9071	24.72	17.86	42.58	46.00	-3.42	167	100	peak

Test Specification: Vertical

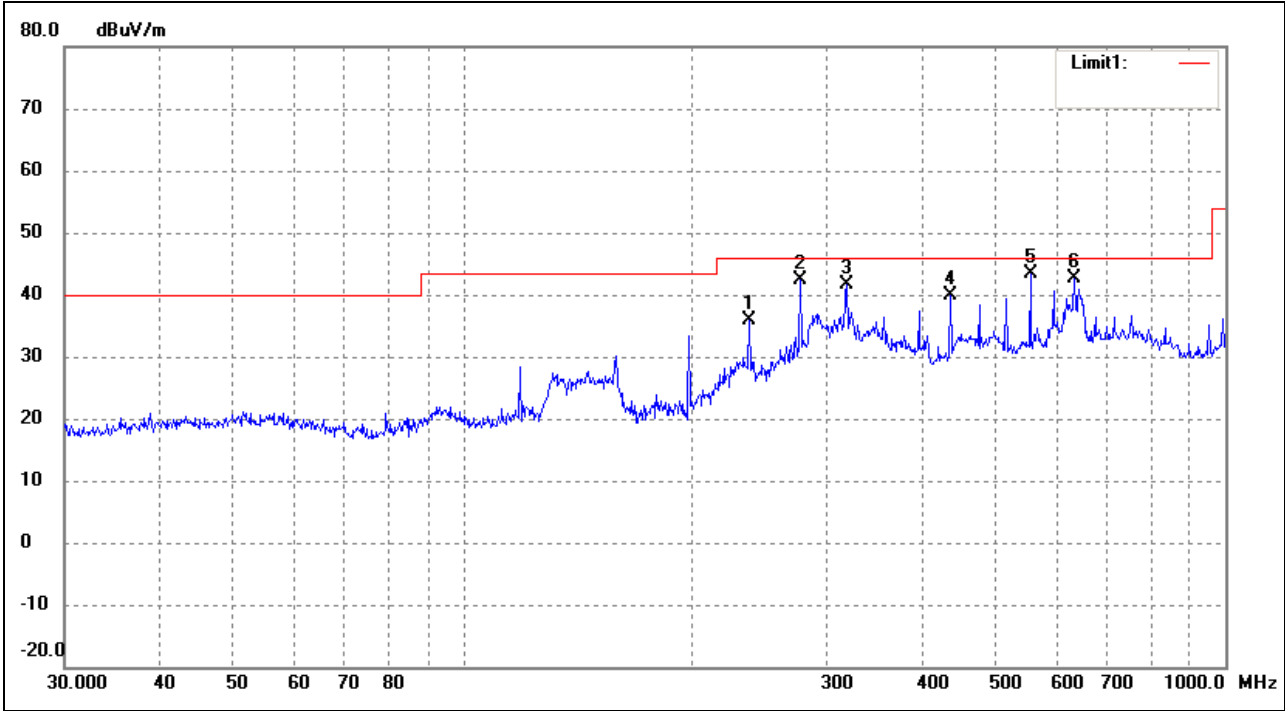


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.49	4.82	35.31	43.50	-8.19	177	100	peak
2	158.6673	33.88	2.44	36.32	43.50	-7.18	90	100	peak
3	197.8925	34.90	3.26	38.16	43.50	-5.34	336	100	peak
4	277.0935	31.20	10.92	42.12	46.00	-3.88	360	100	peak
5	554.8251	28.82	13.96	42.78	46.00	-3.22	127	100	peak
6	616.3718	24.34	17.61	41.95	46.00	-4.05	336	100	peak

Operating Condition: 802.11g Transmitting Middle Channel-2437MHz

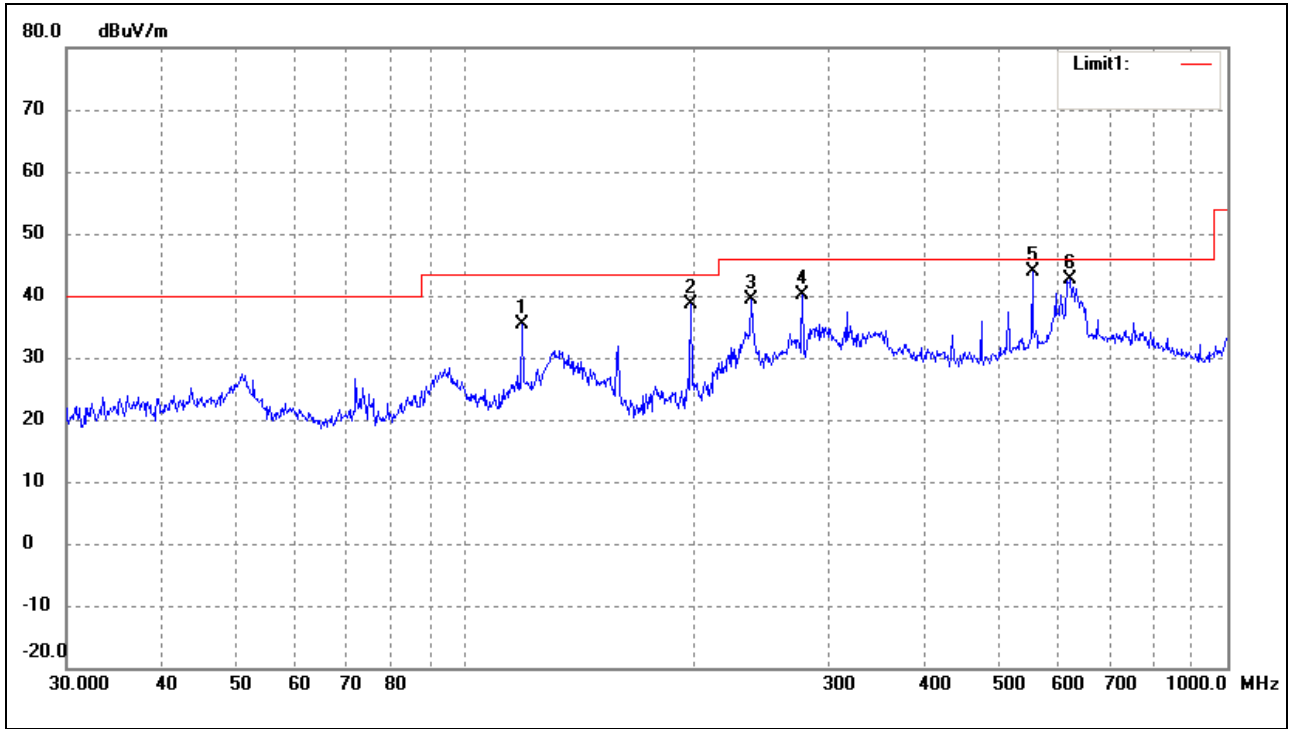
Comment: AC 120V/60Hz; Adapter DC 12V

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	237.4755	27.13	8.77	35.90	46.00	-10.10	270	100	peak
2	277.0935	31.50	10.92	42.42	46.00	-3.58	164	100	peak
3	318.8170	29.67	11.95	41.62	46.00	-4.38	228	200	peak
4	435.5898	27.43	12.35	39.78	46.00	-6.22	130	200	peak
5	554.8251	29.30	13.96	43.26	46.00	-2.74	360	100	peak
6	633.9071	24.72	17.86	42.58	46.00	-3.42	168	100	peak

Test Specification: Vertical

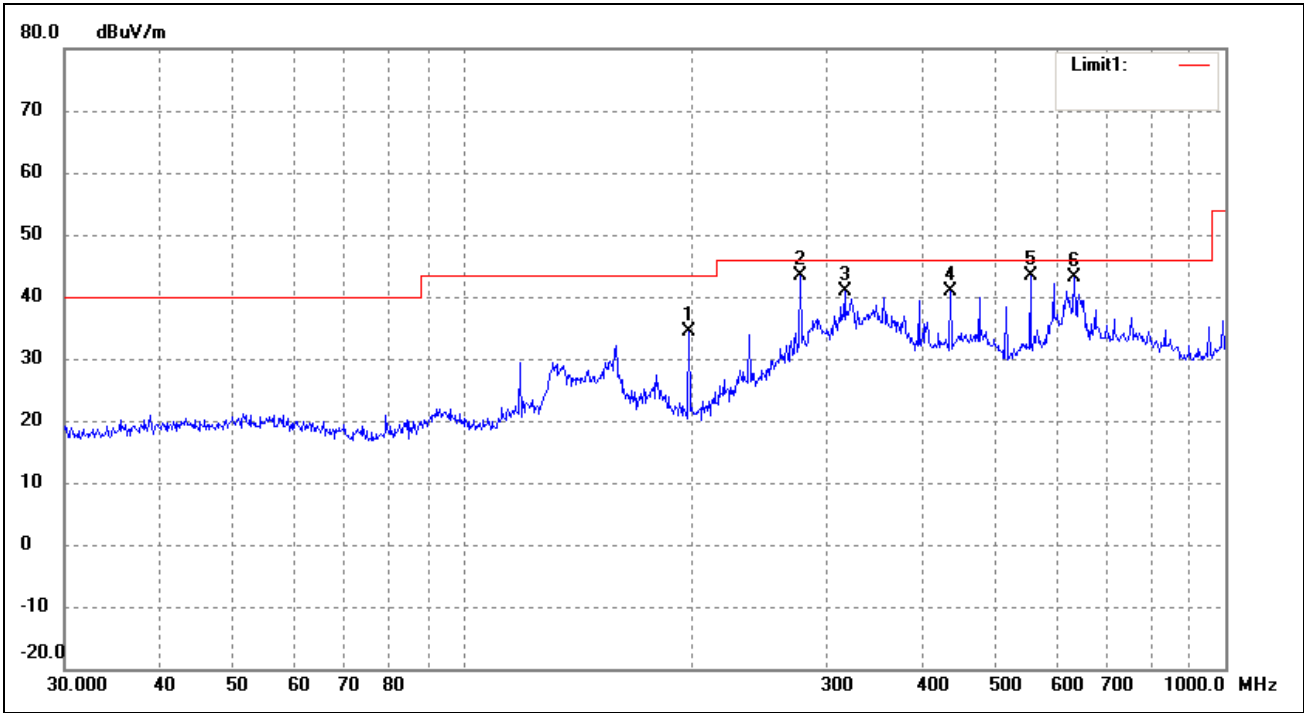


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.49	4.82	35.31	43.50	-8.19	360	100	peak
2	197.8925	35.40	3.26	38.66	43.50	-4.84	255	100	peak
3	237.4755	30.70	8.77	39.47	46.00	-6.53	270	100	peak
4	277.0935	29.20	10.92	40.12	46.00	-5.88	180	100	peak
5	554.8251	29.82	13.96	43.78	46.00	-2.22	169	100	peak
6	622.8899	25.15	17.47	42.62	46.00	-3.38	283	100	peak

Operating Condition: 802.11g Transmitting High Channel-2462MHz

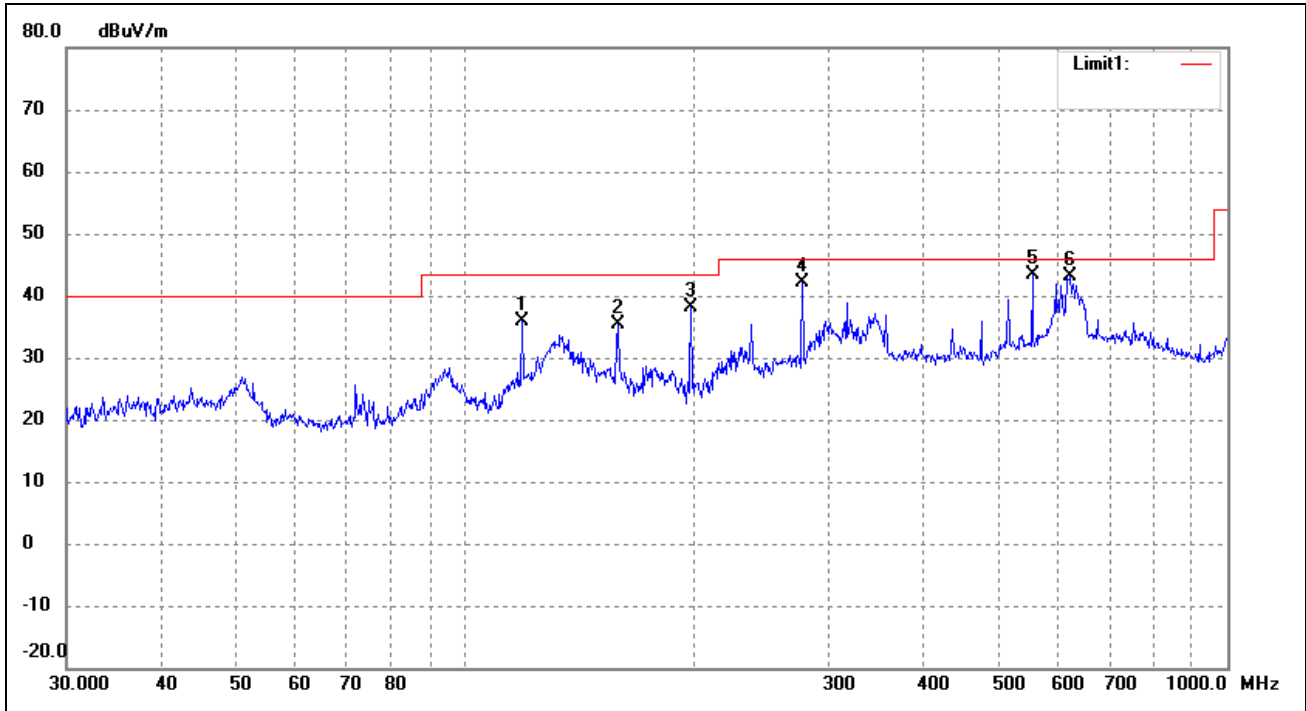
Comment: AC 120V/60Hz; Adapter DC 12V

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	197.8925	31.09	3.26	34.35	43.50	-9.15	154	100	peak
2	277.0935	32.50	10.92	43.42	46.00	-2.58	151	100	peak
3	316.5889	28.89	11.96	40.85	46.00	-5.15	317	100	peak
4	435.5898	28.43	12.35	40.78	46.00	-5.22	289	100	peak
5	554.8251	29.30	13.96	43.26	46.00	-2.74	132	100	peak
6	633.9071	25.22	17.86	43.08	46.00	-2.92	161	100	peak

Test Specification: Vertical

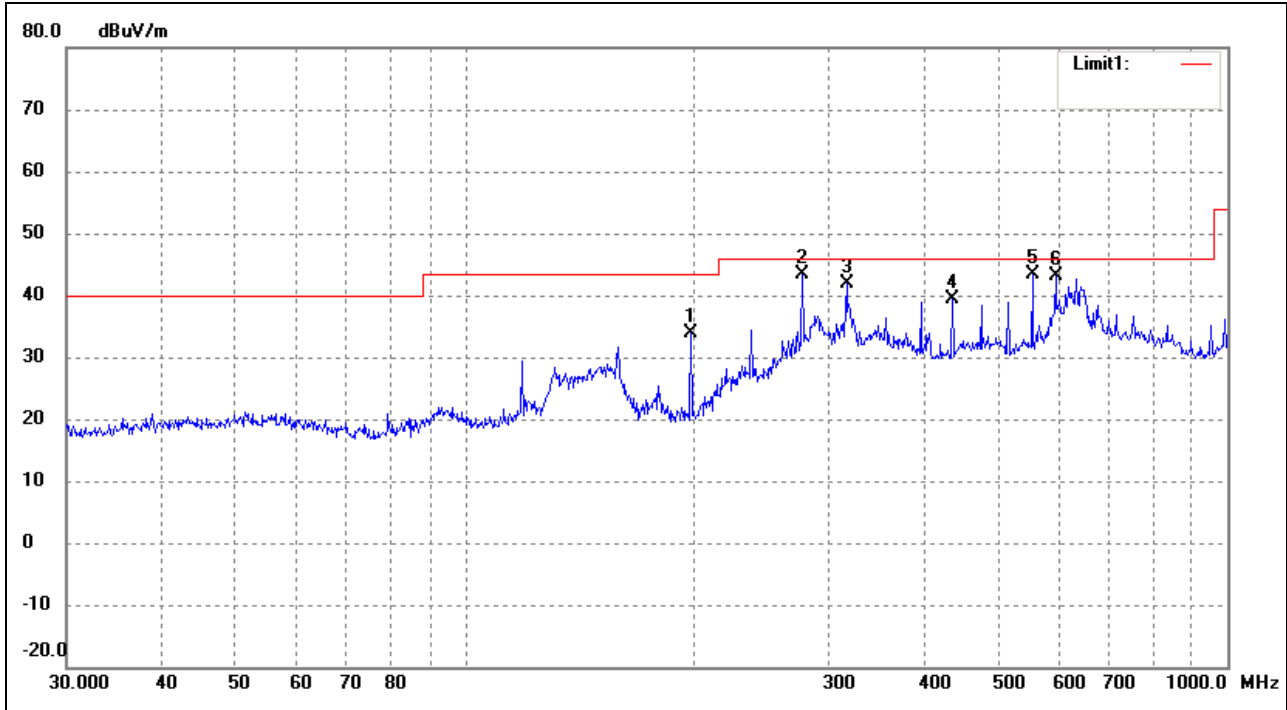


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.99	4.82	35.81	43.50	-7.69	320	100	peak
2	158.6673	32.88	2.44	35.32	43.50	-8.18	180	100	peak
3	197.8925	34.90	3.26	38.16	43.50	-5.34	225	100	peak
4	277.0935	31.20	10.92	42.12	46.00	-3.88	267	100	peak
5	554.8251	29.32	13.96	43.28	46.00	-2.72	187	100	peak
6	622.8899	25.65	17.47	43.12	46.00	-2.88	254	100	peak

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

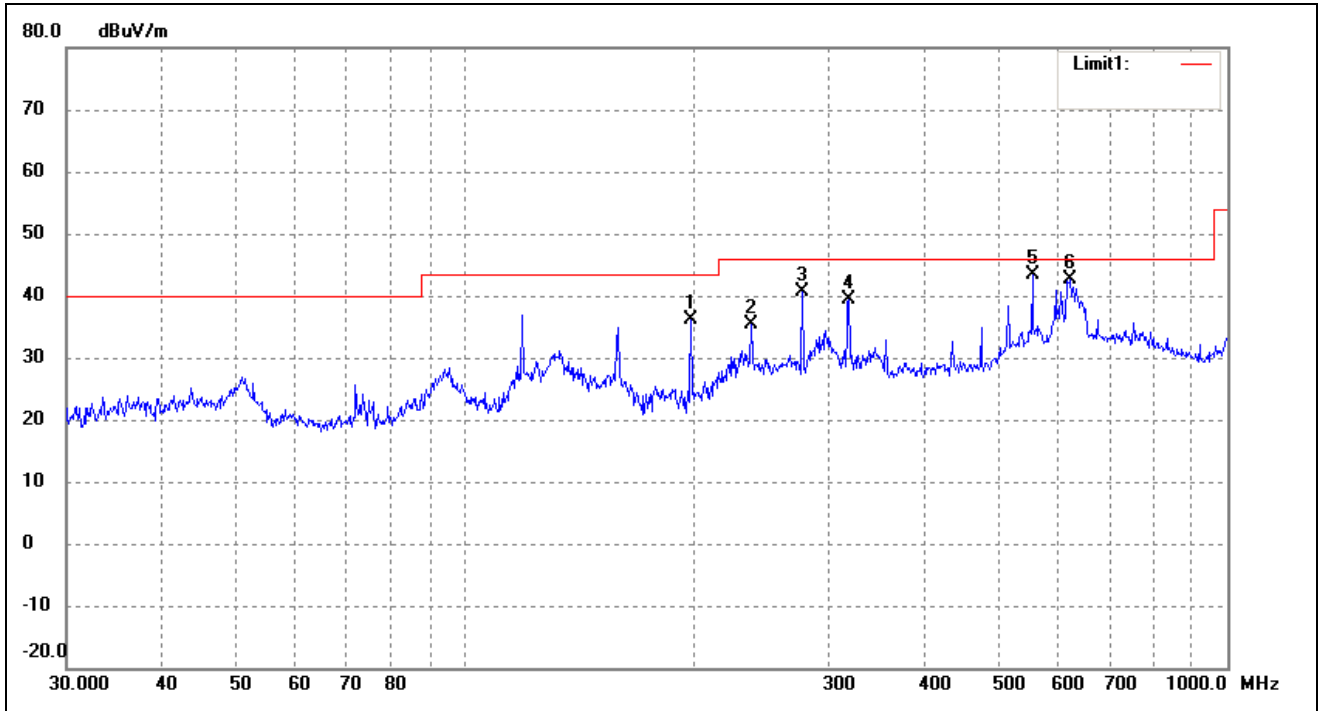
EUT: *Wireless Digital Display*
 Tested Model: *PXT510WR04G*
 Operating Condition: *802.11n-HT20 Transmitting Low Channel-2412MHz*
 Comment: *AC 120V/60Hz; Adapter DC 12V*

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	197.8925	30.59	3.26	33.85	43.50	-9.65	150	100	peak
2	277.0935	32.50	10.92	43.42	46.00	-2.58	131	100	peak
3	316.5889	29.89	11.96	41.85	46.00	-4.15	285	100	peak
4	435.5898	26.93	12.35	39.28	46.00	-6.72	224	100	peak
5	554.8251	29.30	13.96	43.26	46.00	-2.74	162	100	peak
6	595.1326	25.32	17.85	43.17	46.00	-2.83	185	100	peak

Test Specification: Vertical

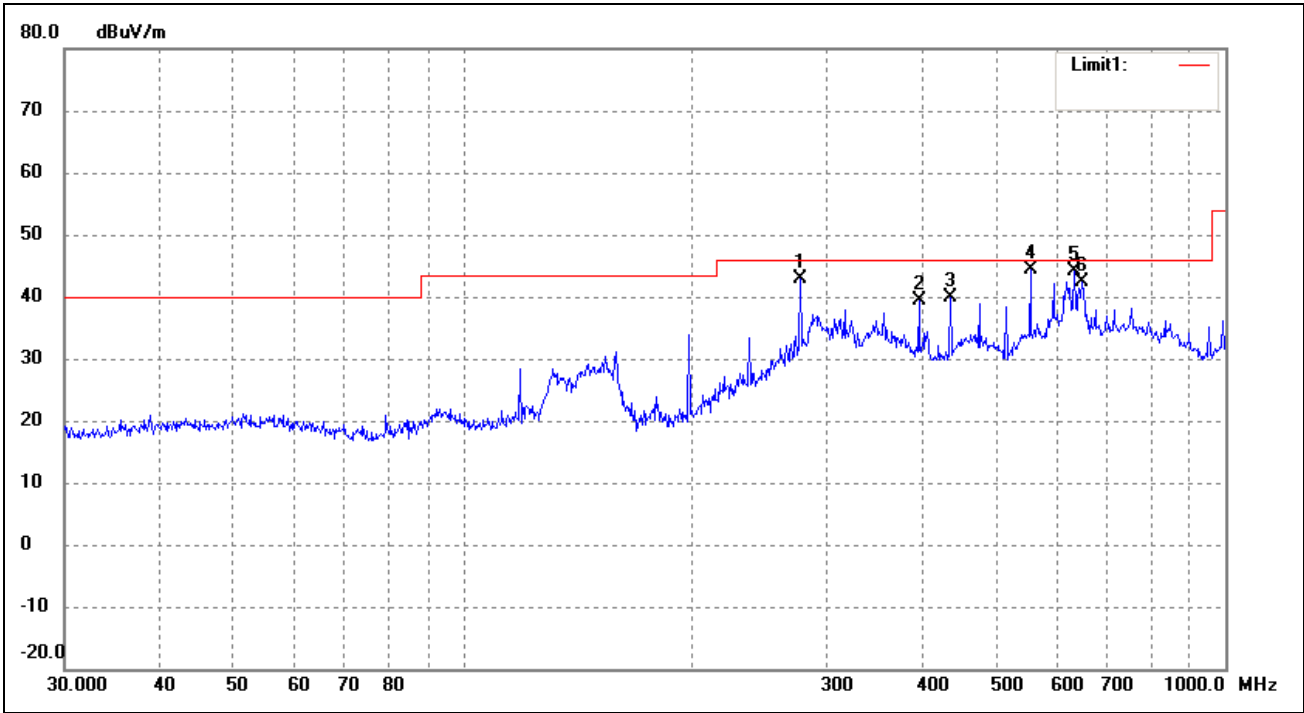


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	197.8925	32.90	3.26	36.16	43.50	-7.34	155	100	peak
2	237.4755	26.70	8.77	35.47	46.00	-10.53	197	100	peak
3	277.0935	29.70	10.92	40.62	46.00	-5.38	310	100	peak
4	318.8170	27.49	11.95	39.44	46.00	-6.56	229	100	peak
5	554.8251	29.32	13.96	43.28	46.00	-2.72	130	100	peak
6	622.8899	25.15	17.47	42.62	46.00	-3.38	163	100	peak

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

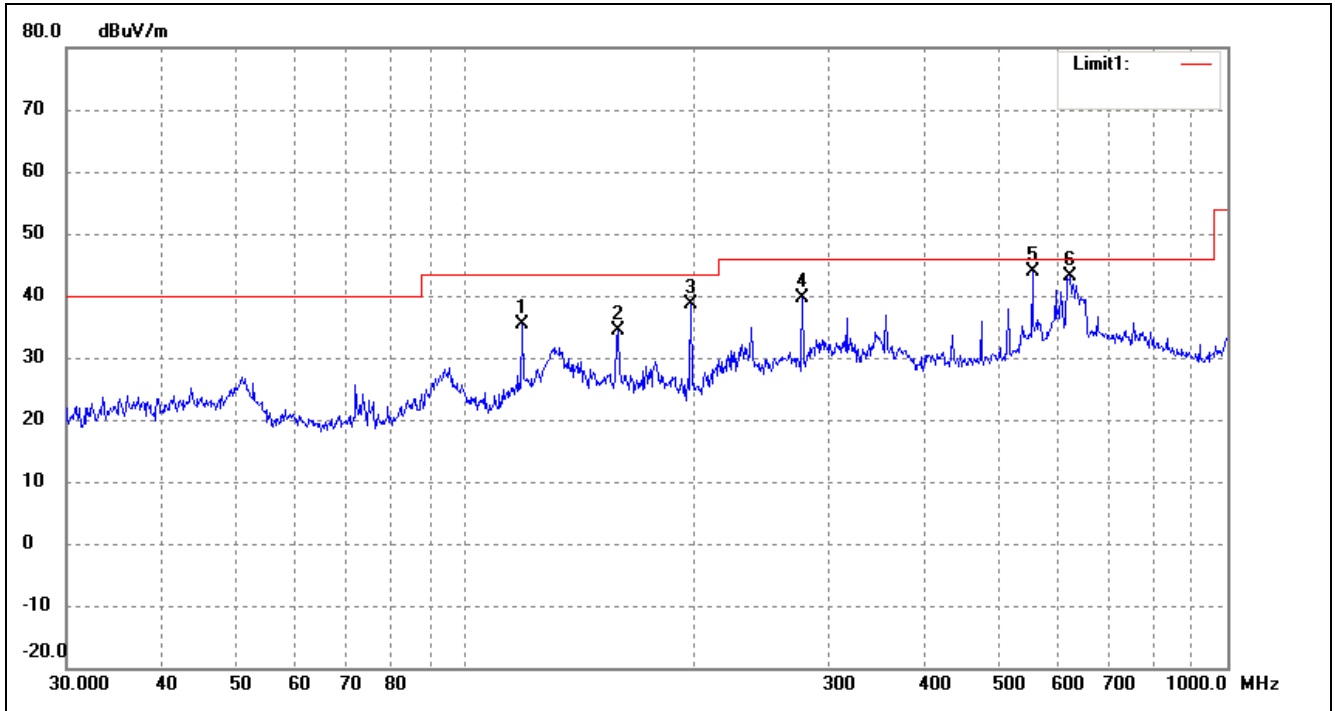
Comment: AC 120V/60Hz; Adapter DC 12V

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	277.0935	32.00	10.92	42.92	46.00	-3.08	274	100	peak
2	396.2413	26.76	12.51	39.27	46.00	-6.73	116	100	peak
3	435.5898	27.43	12.35	39.78	46.00	-6.22	82	100	peak
4	554.8251	30.30	13.96	44.26	46.00	-1.74	134	100	peak
5	633.9071	26.22	17.86	44.08	46.00	-1.92	257	100	peak
6	647.3854	24.39	17.90	42.29	46.00	-3.71	136	100	peak

Test Specification: Vertical

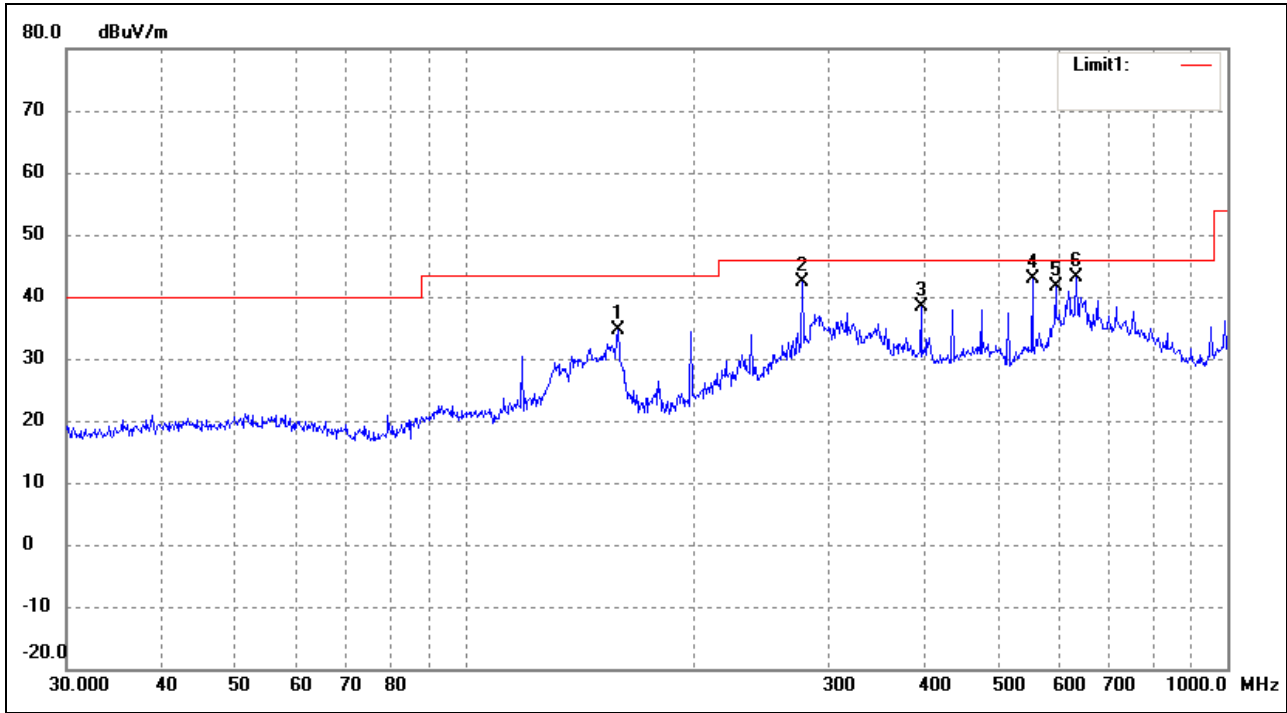


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.49	4.82	35.31	43.50	-8.19	264	100	peak
2	158.6673	31.88	2.44	34.32	43.50	-9.18	110	100	peak
3	197.8925	35.40	3.26	38.66	43.50	-4.84	136	100	peak
4	277.0935	28.70	10.92	39.62	46.00	-6.38	90	100	peak
5	554.8251	29.82	13.96	43.78	46.00	-2.22	263	100	peak
6	622.8899	25.65	17.47	43.12	46.00	-2.88	181	100	peak

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

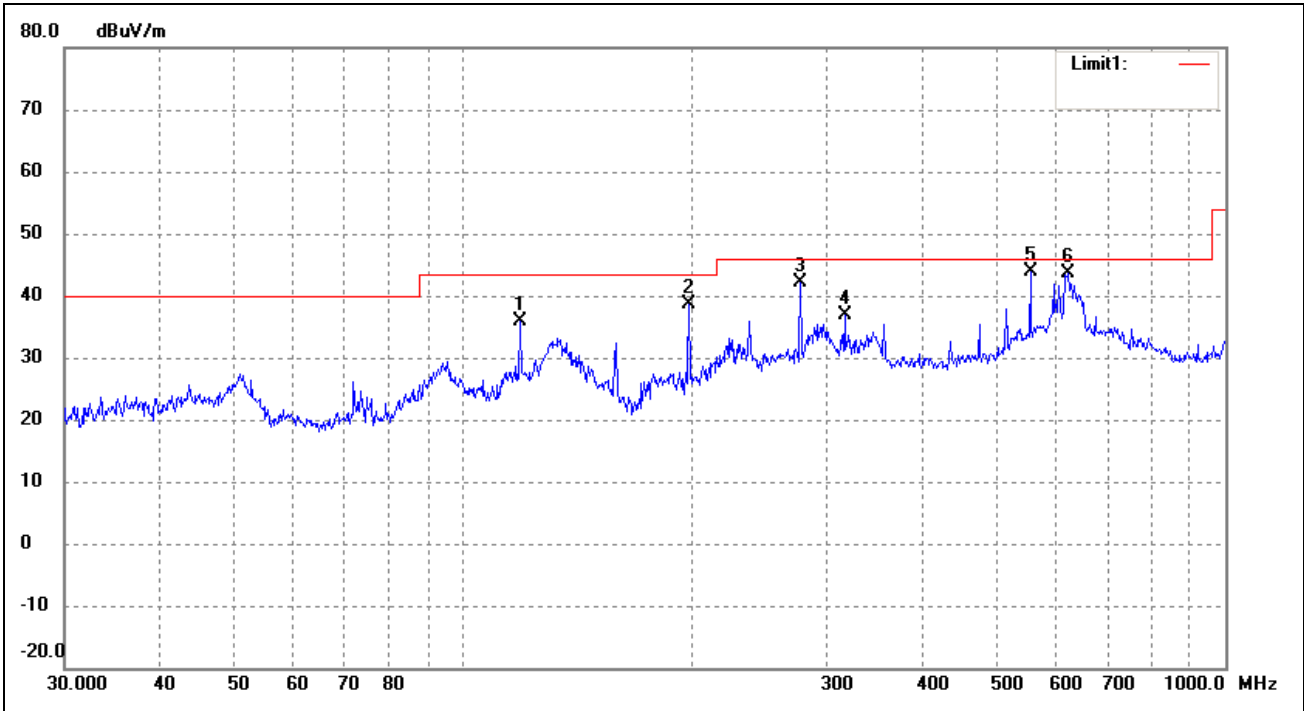
Comment: AC 120V/60Hz; Adapter DC 12V

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	158.6673	32.26	2.44	34.70	43.50	-8.80	360	100	peak
2	277.0935	31.50	10.92	42.42	46.00	-3.58	112	100	peak
3	396.2413	25.76	12.51	38.27	46.00	-7.73	180	100	peak
4	554.8251	28.80	13.96	42.76	46.00	-3.24	270	100	peak
5	595.1326	23.82	17.85	41.67	46.00	-4.33	149	100	peak
6	633.9071	25.22	17.86	43.08	46.00	-2.92	158	100	peak

Test Specification: Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (°)	Height (cm)	Remark
1	118.6012	30.99	4.82	35.81	43.50	-7.69	267	100	peak
2	197.8925	35.40	3.26	38.66	43.50	-4.84	116	100	peak
3	277.0935	31.20	10.92	42.12	46.00	-3.88	360	100	peak
4	316.5889	24.93	11.96	36.89	46.00	-9.11	228	100	peak
5	554.8251	29.82	13.96	43.78	46.00	-2.22	270	100	peak
6	622.8899	26.15	17.47	43.62	46.00	-2.38	126	100	peak

Spurious Emissions Above 1GHz

Test Mode: 802.11b

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	52.19	-3.87	48.32	74.00	-25.68	H	PK
4824.000	41.63	-3.87	37.76	54.00	-16.24	H	AV
7236.000	46.39	1.14	47.53	74.00	-26.47	H	PK
7236.000	32.14	1.19	33.33	54.00	-20.67	H	AV
4824.000	52.97	-3.86	49.11	74.00	-24.89	V	PK
4824.000	44.78	-3.86	40.92	54.00	-13.08	V	AV
7236.000	45.69	1.10	46.79	74.00	-27.21	V	PK
7236.000	41.97	1.10	43.07	54.00	-10.93	V	AV
Middle Channel-2437MHz							
4874.000	52.91	-3.74	49.17	74.00	-24.83	H	PK
4874.000	42.58	-3.74	38.84	54.00	-15.16	H	AV
7311.000	45.13	1.47	46.6	74.00	-27.4	H	PK
7311.000	32.94	1.47	34.41	54.00	-19.59	H	AV
4874.000	54.67	-3.74	50.93	74.00	-23.07	V	PK
4874.000	41.89	-3.74	38.15	54.00	-15.85	V	AV
7311.000	53.84	1.47	55.31	74.00	-18.69	V	PK
7311.000	31.96	1.47	33.43	54.00	-20.57	V	AV
High Channel-2462MHz							
4924.000	55.14	-3.59	51.55	74.00	-22.45	H	PK
4924.000	41.69	-3.59	38.1	54.00	-15.9	H	AV
7386.000	51.31	1.79	53.1	74.00	-20.9	H	PK
7386.000	38.57	1.79	40.36	54.00	-13.64	H	AV
4924.000	55.17	-3.59	51.58	74.00	-22.42	V	PK
4924.000	41.32	-3.59	37.73	54.00	-16.27	V	AV
7386.000	48.52	1.79	50.31	74.00	-23.69	V	PK
7386.000	35.43	1.79	37.22	54.00	-16.78	V	AV

Test Mode: 802.11g

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	53.97	-3.87	50.1	74.00	-23.9	H	PK
4824.000	42.69	-3.87	38.82	54.00	-15.18	H	AV
7236.000	49.57	1.14	50.71	74.00	-23.29	H	PK
7236.000	35.84	1.19	37.03	54.00	-16.97	H	AV
4824.000	53.91	-3.86	50.05	74.00	-23.95	V	PK
4824.000	42.78	-3.86	38.92	54.00	-15.08	V	AV
7236.000	49.31	1.10	50.41	74.00	-23.59	V	PK
7236.000	38.99	1.10	40.09	54.00	-13.91	V	AV
Middle Channel-2437MHz							
4874.000	54.16	-3.74	50.42	74.00	-23.58	H	PK
4874.000	42.63	-3.74	38.89	54.00	-15.11	H	AV
7311.000	49.07	1.47	50.54	74.00	-23.46	H	PK
7311.000	35.17	1.47	36.64	54.00	-17.36	H	AV
4874.000	52.83	-3.74	49.09	74.00	-24.91	V	PK
4874.000	42.51	-3.74	38.77	54.00	-15.23	V	AV
7311.000	48.63	1.47	50.1	74.00	-23.9	V	PK
7311.000	38.56	1.47	40.03	54.00	-13.97	V	AV
High Channel-2462MHz							
4924.000	53.46	-3.59	49.87	74.00	-24.13	H	PK
4924.000	40.73	-3.59	37.14	54.00	-16.86	H	AV
7386.000	47.82	1.79	49.61	74.00	-24.39	H	PK
7386.000	33.14	1.79	34.93	54.00	-19.07	H	AV
4924.000	54.63	-3.59	51.04	74.00	-22.96	V	PK
4924.000	41.89	-3.59	38.3	54.00	-15.7	V	AV
7386.000	47.67	1.79	49.46	74.00	-24.54	V	PK
7386.000	35.49	1.79	37.28	54.00	-16.72	V	AV

Test Mode: 802.11n-HT20

Frequency (MHz)	Reading (dBuV/m)	Correct dB	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polar H/V	Detector
Low Channel-2412MHz							
4824.000	54.73	-3.87	50.86	74.00	-23.14	H	PK
4824.000	43.64	-3.87	39.77	54.00	-14.23	H	AV
7236.000	42.19	1.14	43.33	74.00	-30.67	H	PK
7236.000	34.82	1.19	36.01	54.00	-17.99	H	AV
4824.000	51.66	-3.86	47.8	74.00	-26.2	V	PK
4824.000	41.87	-3.86	38.01	54.00	-15.99	V	AV
7236.000	46.92	1.10	48.02	74.00	-25.98	V	PK
7236.000	39.39	1.10	40.49	54.00	-13.51	V	AV
Middle Channel-2437MHz							
4874.000	54.67	-3.74	50.93	74.00	-23.07	H	PK
4874.000	42.16	-3.74	38.42	54.00	-15.58	H	AV
7311.000	48.97	1.47	50.44	74.00	-23.56	H	PK
7311.000	35.17	1.47	36.64	54.00	-17.36	H	AV
4874.000	55.93	-3.74	52.19	74.00	-21.81	V	PK
4874.000	43.86	-3.74	40.12	54.00	-13.88	V	AV
7311.000	50.08	1.47	51.55	74.00	-22.45	V	PK
7311.000	36.19	1.47	37.66	54.00	-16.34	V	AV
High Channel-2462MHz							
4924.000	52.37	-3.59	48.78	74.00	-25.22	H	PK
4924.000	44.57	-3.59	40.98	54.00	-13.02	H	AV
7386.000	50.12	1.79	51.91	74.00	-22.09	H	PK
7386.000	35.39	1.79	37.18	54.00	-16.82	H	AV
4924.000	51.72	-3.59	48.13	74.00	-25.87	V	PK
4924.000	42.96	-3.59	39.37	54.00	-14.63	V	AV
7386.000	51.62	1.79	53.41	74.00	-20.59	V	PK
7386.000	37.81	1.79	39.6	54.00	-14.4	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

9. Out of Band Emissions

9.1 Standard Applicable

According to §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Test Procedure

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

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

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

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

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

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

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

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

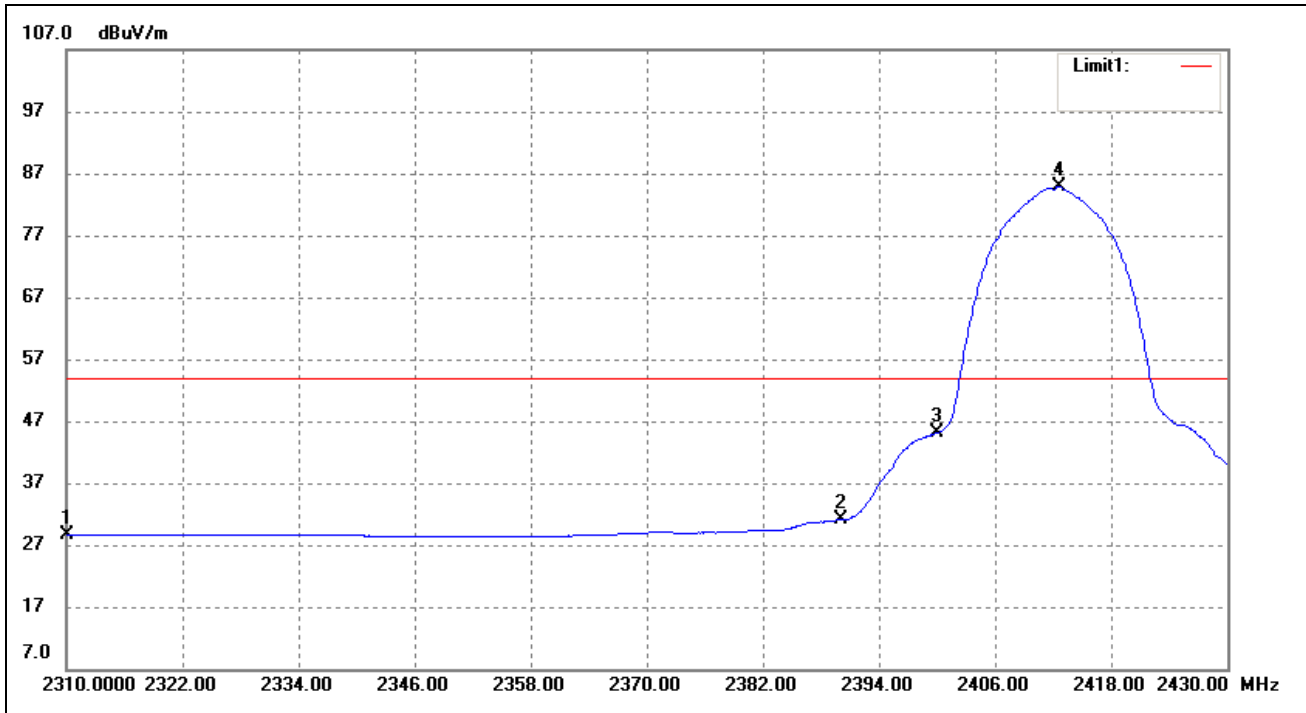
Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

9.3 Environmental Conditions

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

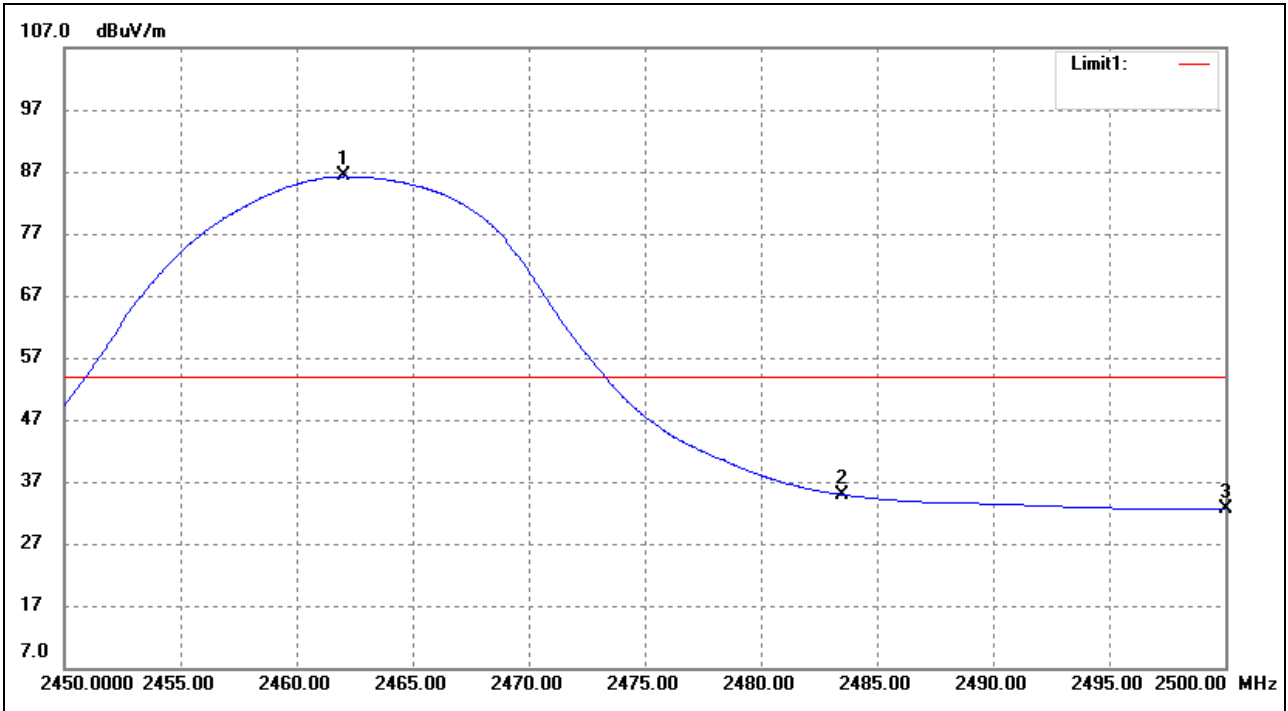
9.4 Summary of Test Results/Plots

802.11b-Lowest Bandedge
Vertical (Worst case)



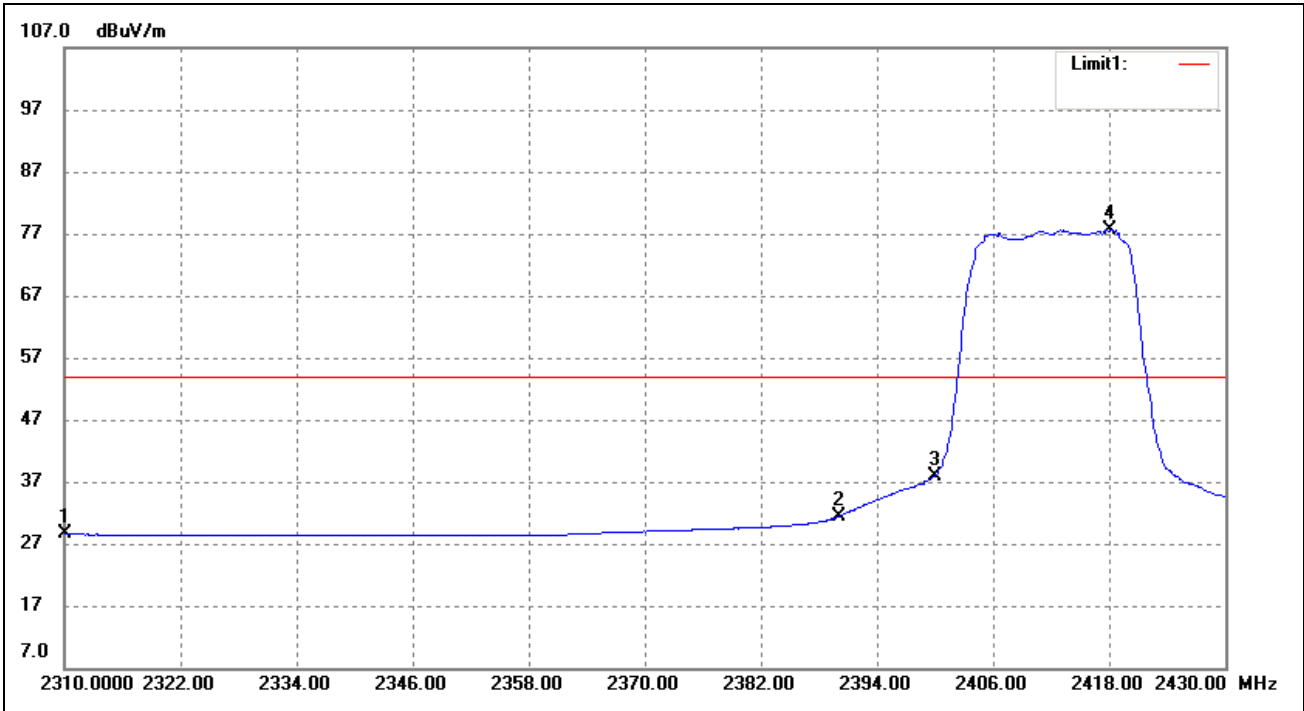
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	32.05	-3.35	28.70	54.00	-25.30	Average Detector
		45.66	-3.35	42.31	74.00	-31.69	Peak Detector
2	2390.000	35.37	-4.29	31.08	54.00	-22.92	Average Detector
		48.56	-4.29	44.27	74.00	-29.73	Peak Detector
3	2400.000	49.52	-4.40	45.12	Delta=39.71dBc		Average Detector
4	2412.600	89.27	-4.44	84.83		Average Detector	

802.11b-Highest Bandedge
Vertical (Worst case)



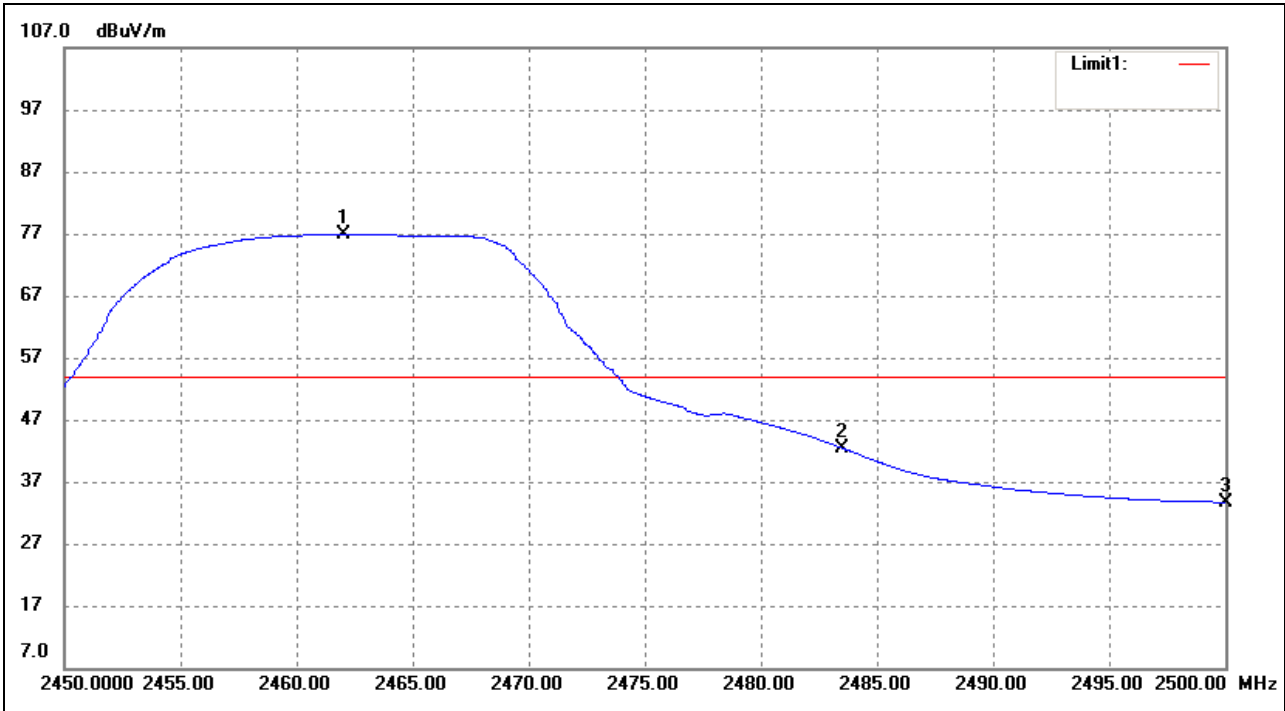
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.050	90.64	-4.38	86.26	/	/	Average Detector
	2462.600	108.49	-4.38	104.11	/	/	Peak Detector
2	2483.500	Delta = 37.54dBc		34.93	54.00	-19.07	Average Detector
	2483.500			46.60	74.00	-27.40	Peak Detector
3	2500.000	36.94	-4.34	32.60	54.00	-21.40	Average Detector
	2500.000	50.18	-4.34	45.84	74.00	-28.16	Peak Detector

802.11g-Lowest Bandedge
Vertical (Worst case)



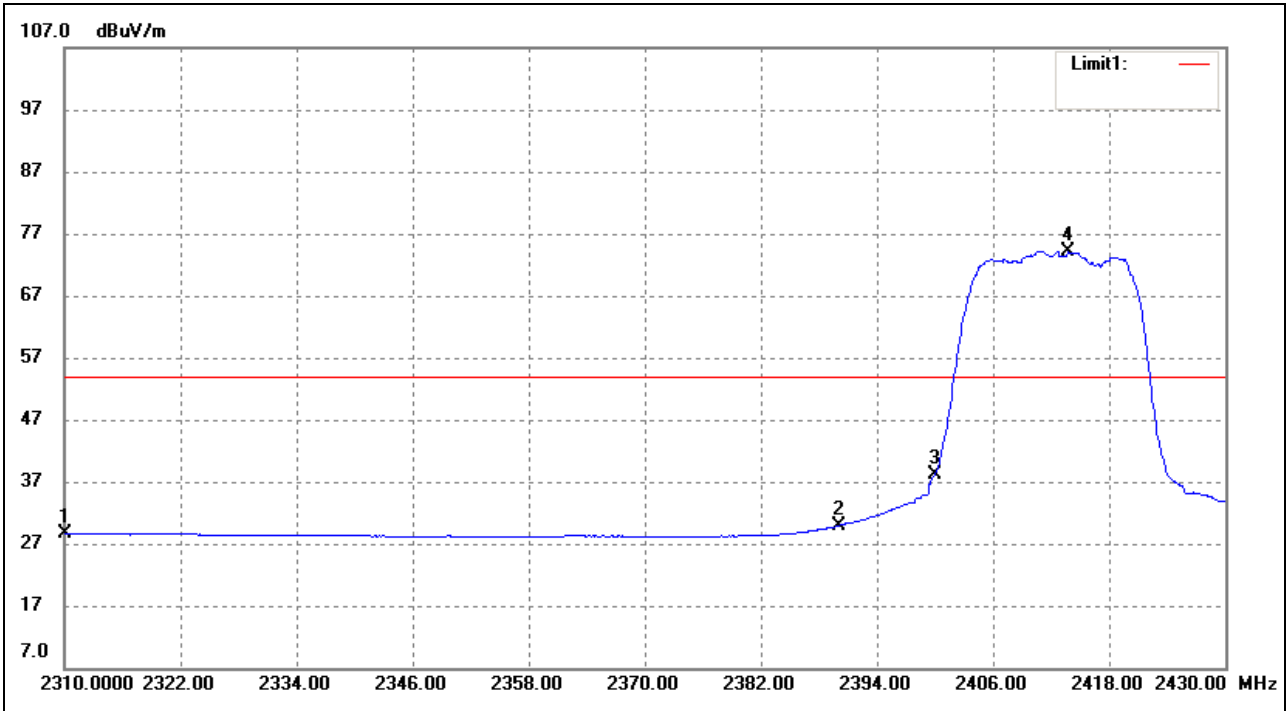
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	31.87	-3.35	28.52	54.00	-25.48	Average Detector
		48.41	-3.35	45.06	74.00	-28.94	Peak Detector
2	2390.000	35.70	-4.29	31.41	54.00	-22.59	Average Detector
		65.61	-4.29	61.32	74.00	-12.68	Peak Detector
3	2400.000	42.38	-4.40	37.98	Delta=39.72dBc		Average Detector
4	2418.120	82.13	-4.43	77.70			Average Detector

802.11g-Highest Bandedge
Vertical (Worst case)



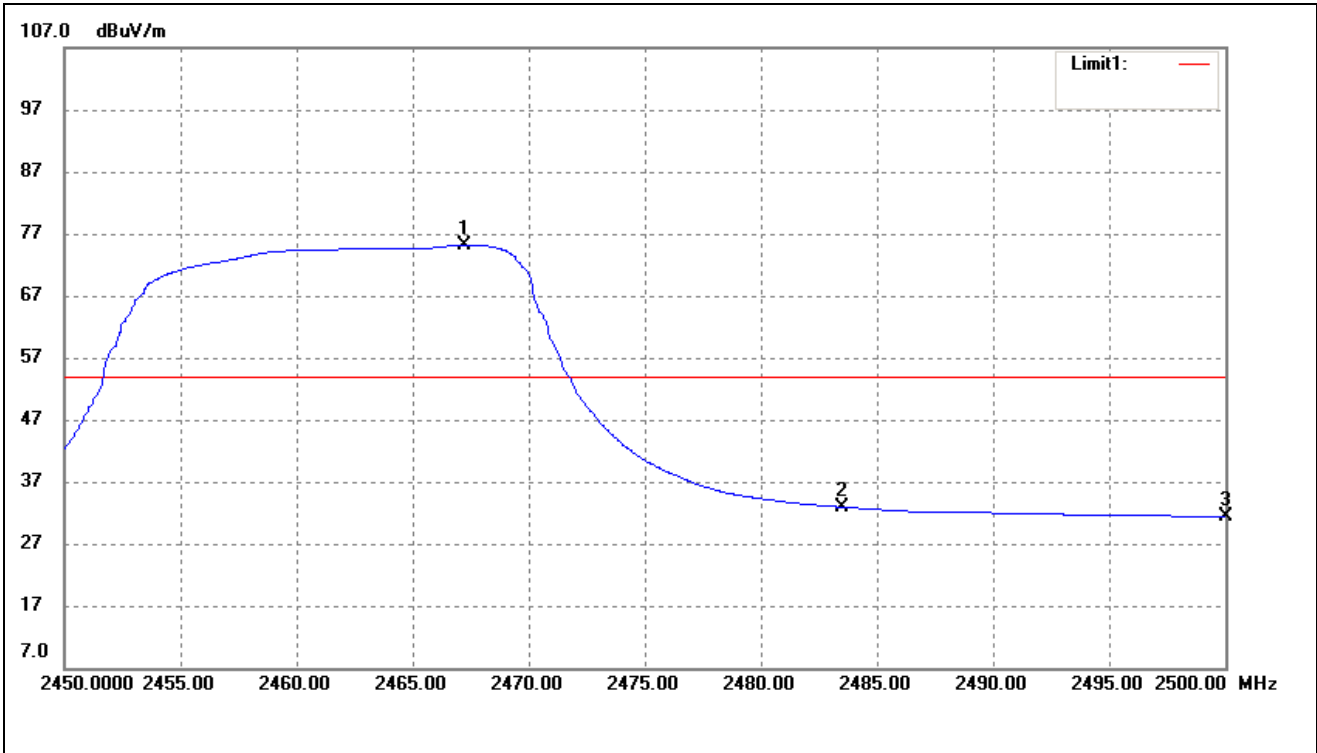
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2	2462.050	81.31	-4.38	76.93	/	/	Average Detector
	2462.100	104.30	-4.38	99.92	/	/	Peak Detector
1	2483.500	Delta = 38.13dBc		42.44	54.00	-11.56	Average Detector
	2483.500			64.04	74.00	-9.96	Peak Detector
3	2500.000	38.01	-4.34	33.67	54.00	-20.33	Average Detector
	2500.000	64.24	-4.34	59.90	74.00	-14.10	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	31.95	-3.35	28.60	54.00	-25.40	Average Detector
		48.95	-3.35	45.60	74.00	-28.40	Peak Detector
2	2390.000	34.27	-4.29	29.98	54.00	-24.02	Average Detector
		64.32	-4.29	60.03	74.00	-13.97	Peak Detector
3	2400.000	42.52	-4.40	38.12	Delta = 36.10dBc		Average Detector
		2413.680	78.66	-4.44		74.22	Average Detector

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

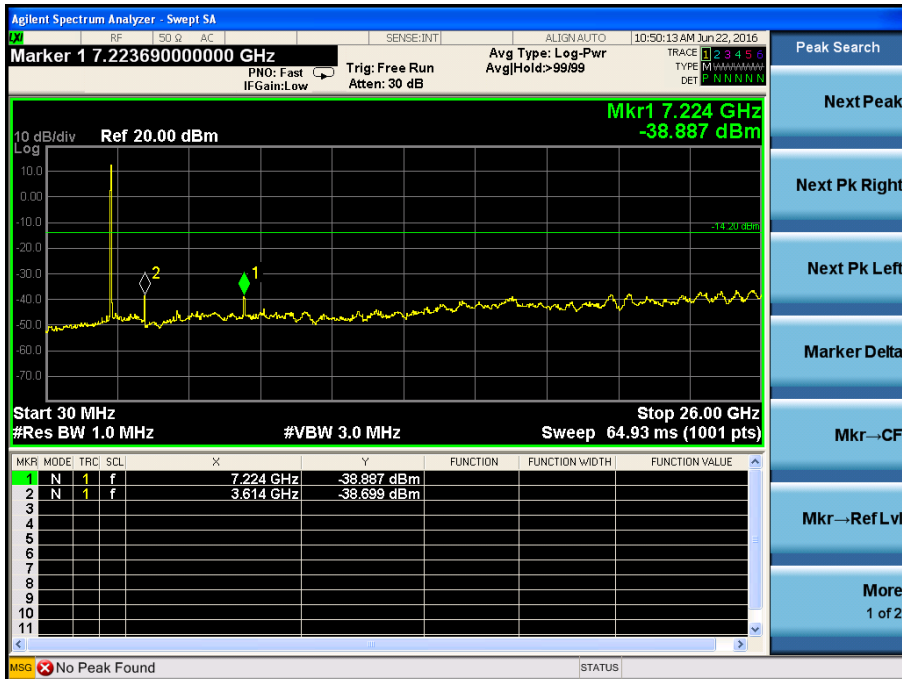
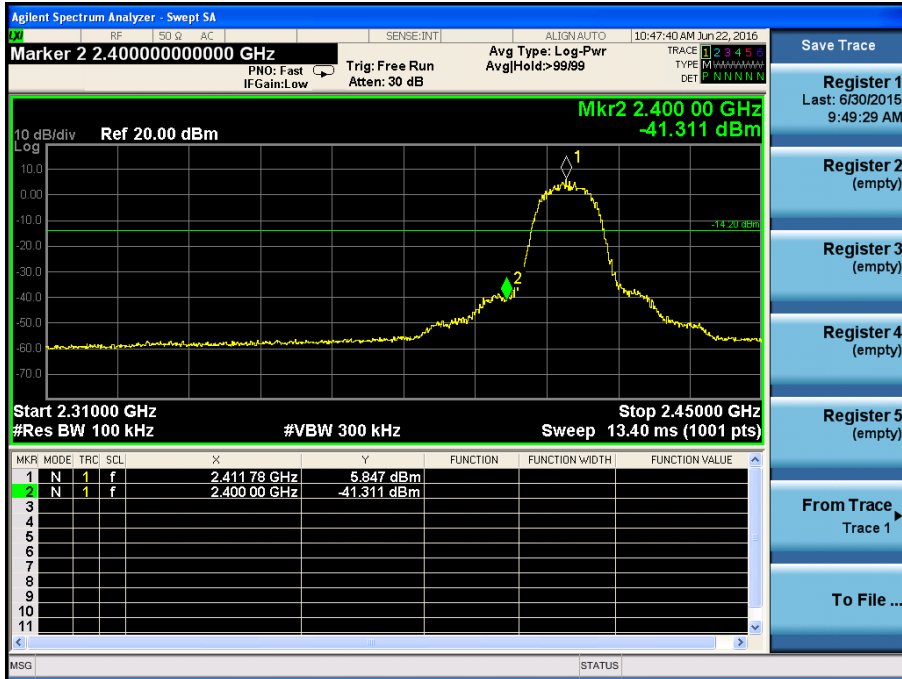


No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2467.250	79.62	-4.37	75.25	/	/	Average Detector
	2468.050	102.26	-4.37	97.89	/	/	Peak Detector
2	2483.500	Delta = 37.98dBc		32.92	54.00	-21.08	Average Detector
	2483.500			61.41	74.00	-12.59	Peak Detector
3	2500.000	35.76	-4.34	31.42	54.00	-22.58	Average Detector
	2500.000	63.97	-4.34	59.63	74.00	-14.37	Peak Detector

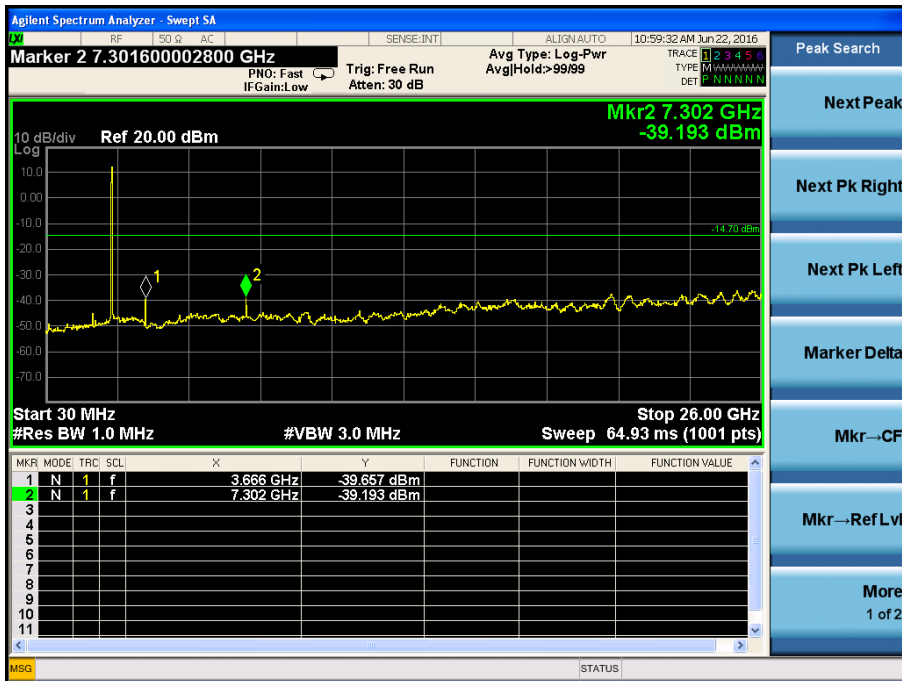
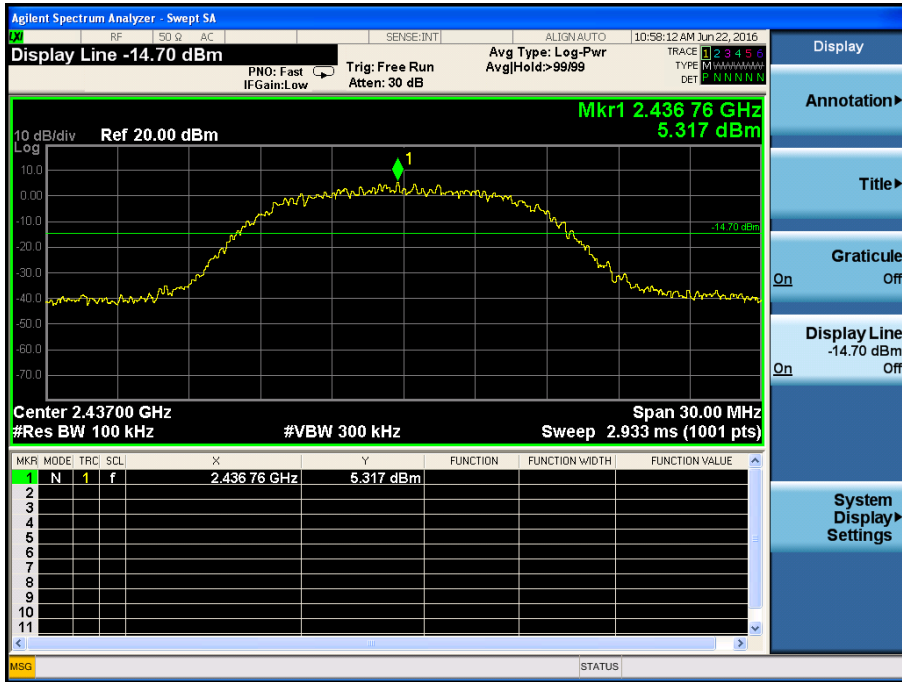
Conducted Spurious Emission

802.11b

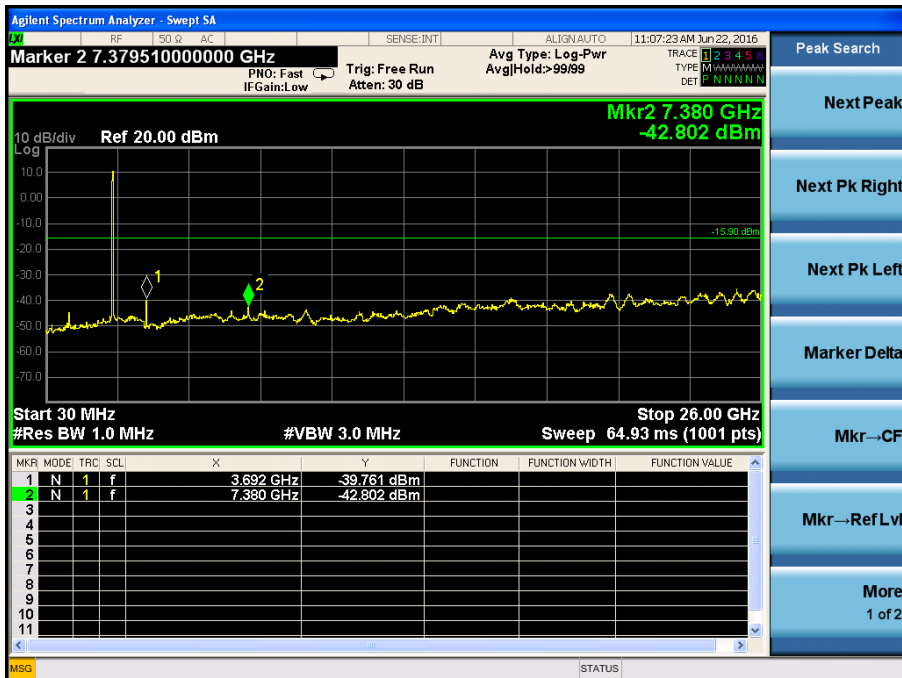
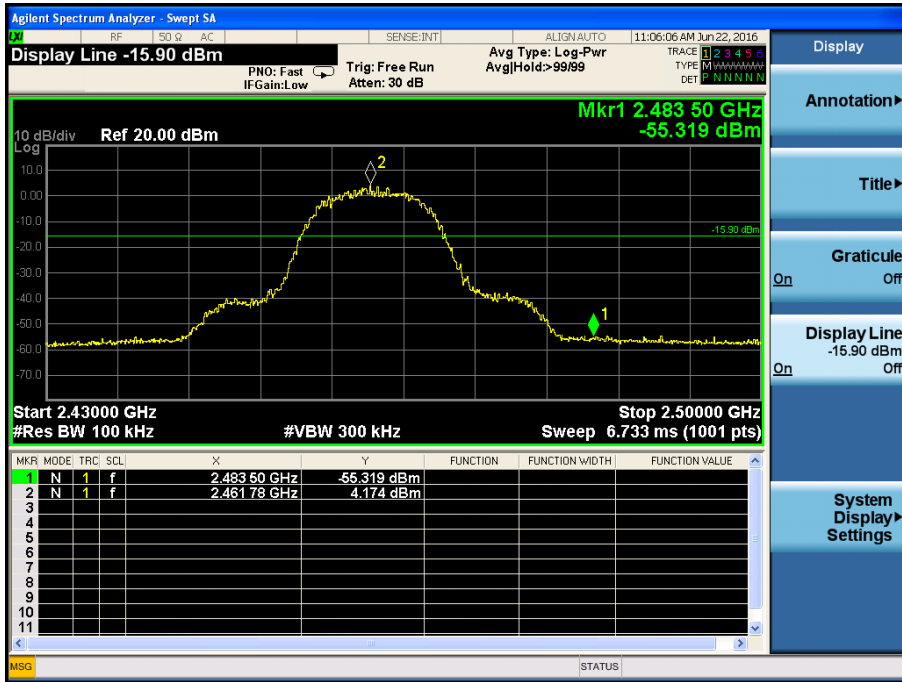
Low Channel



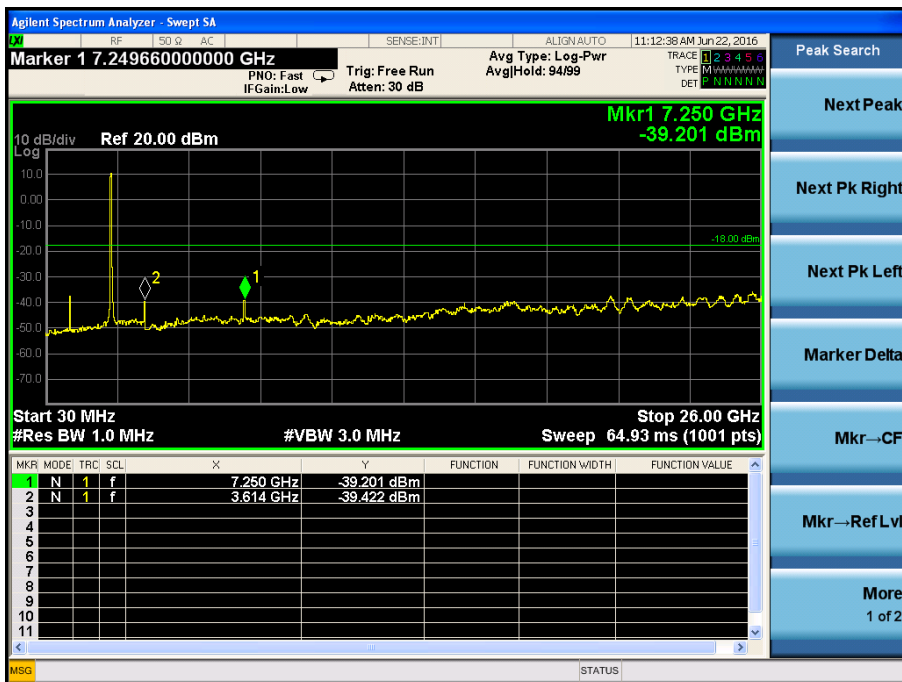
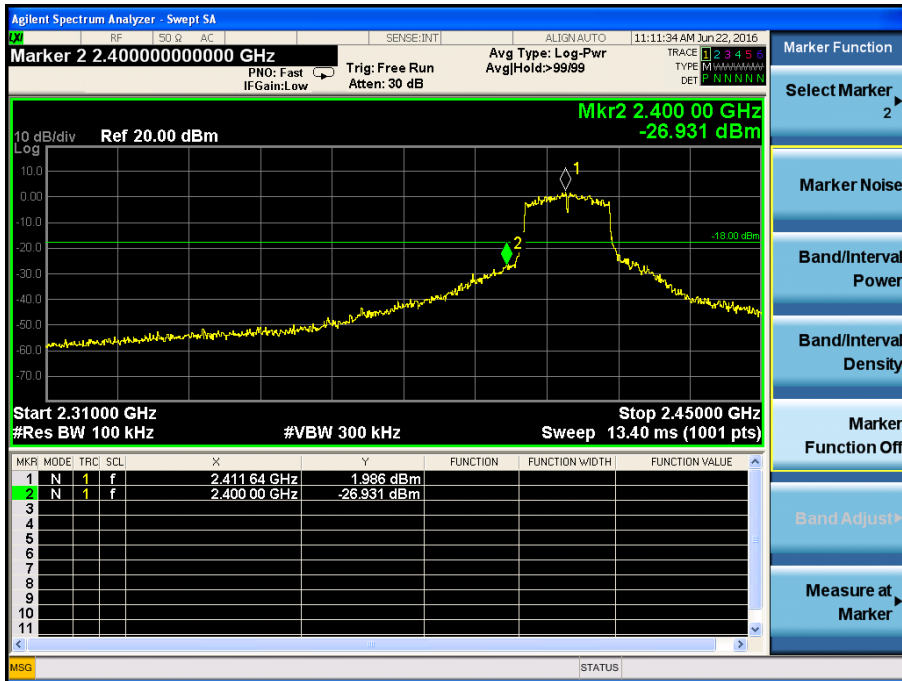
802.11b-Middle Channel



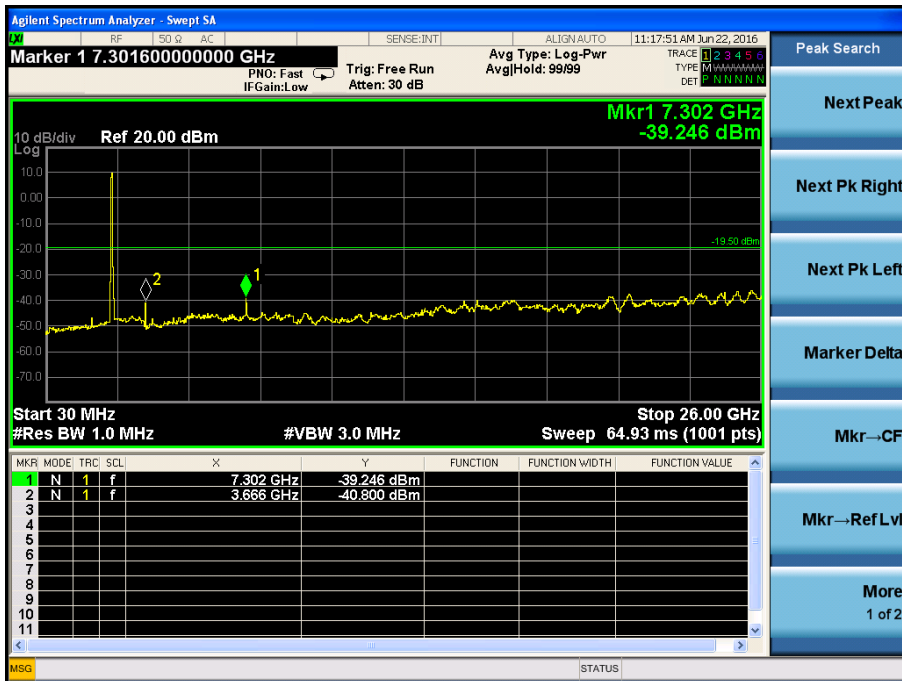
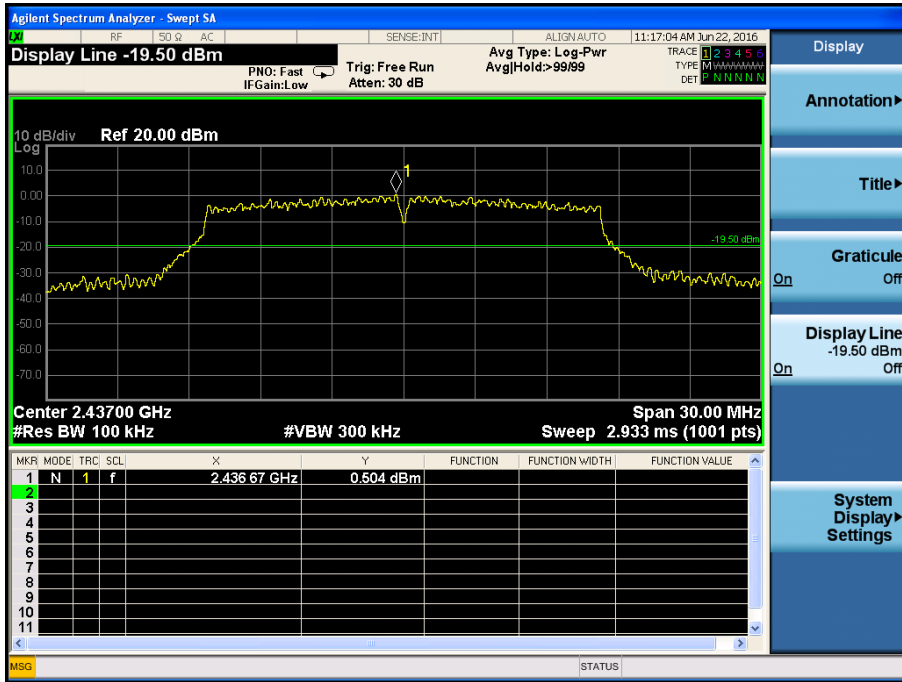
High Channel



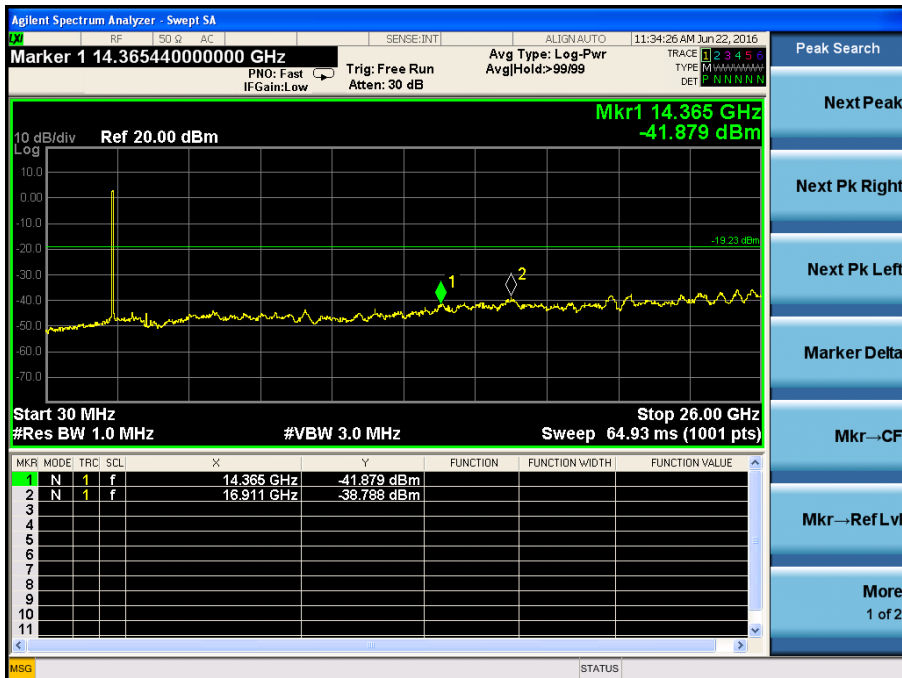
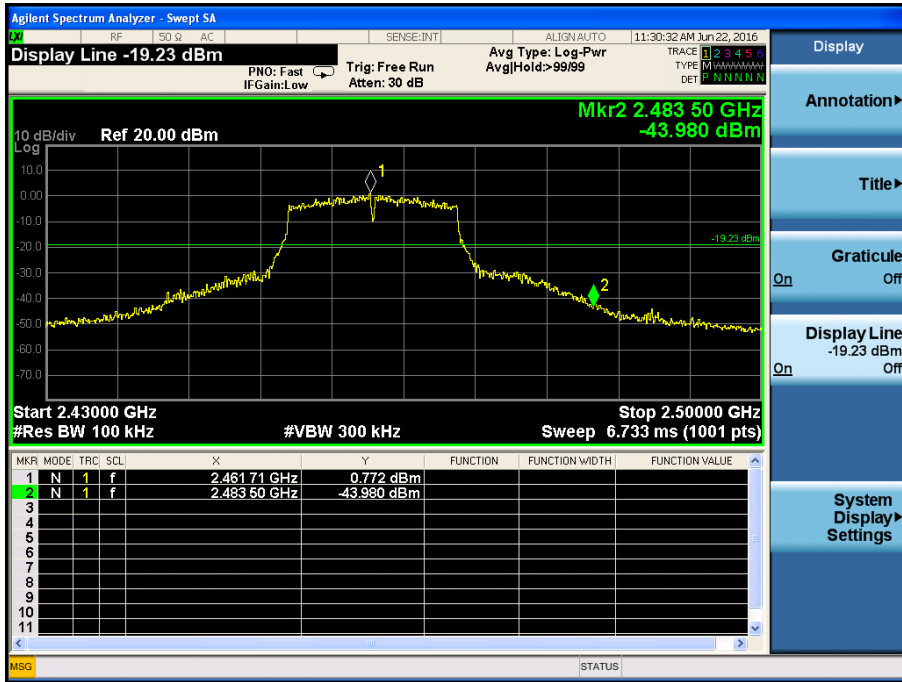
802.11g
Low Channel



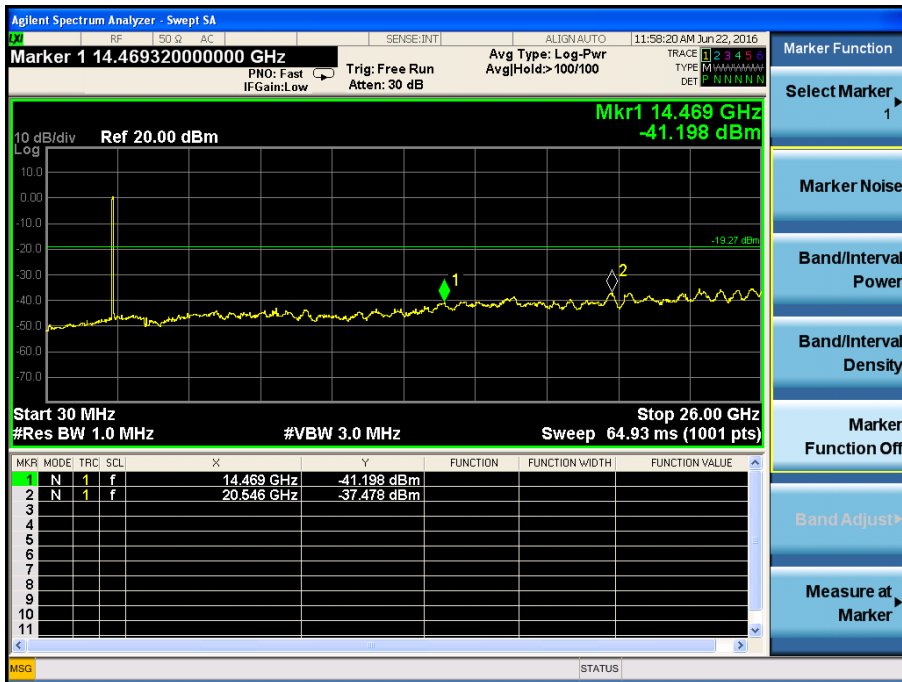
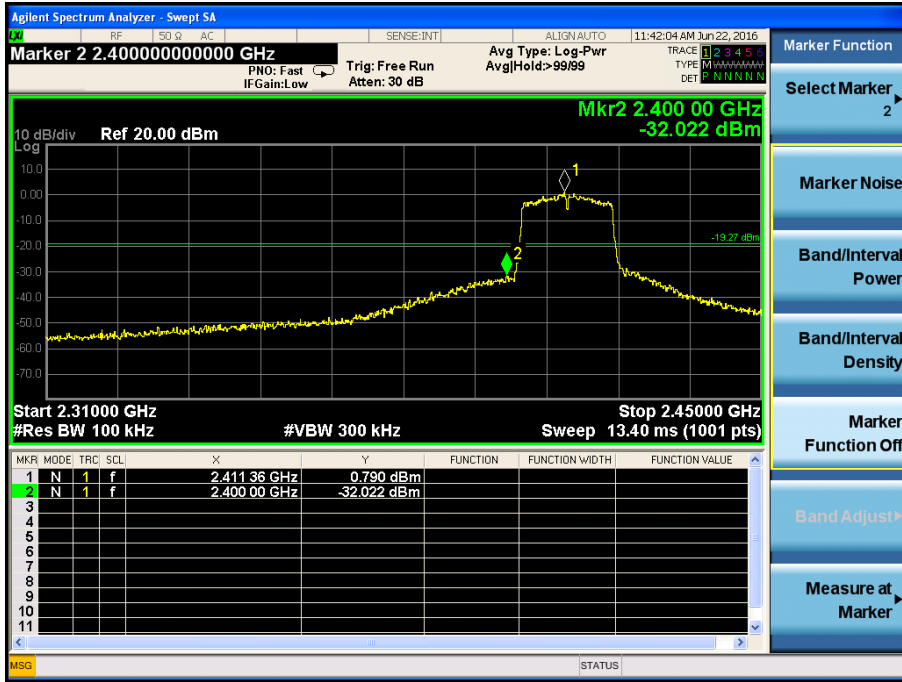
Middle Channel



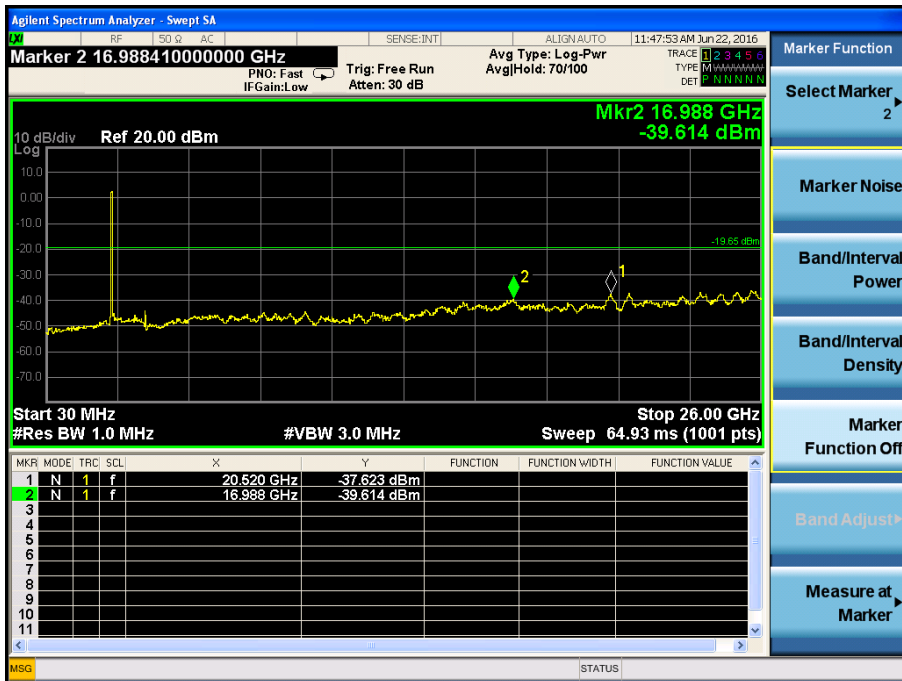
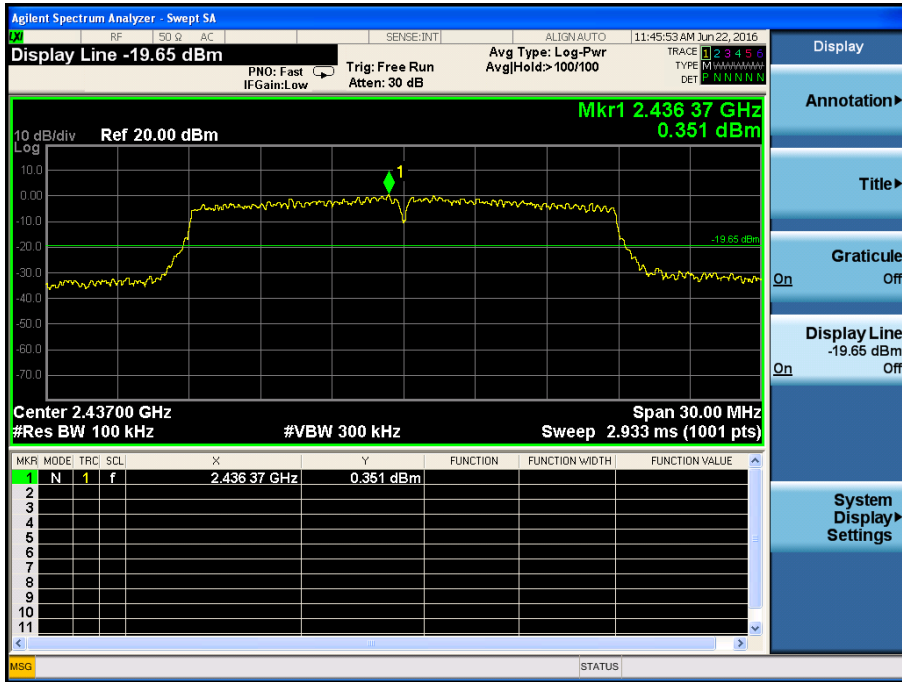
High Channel



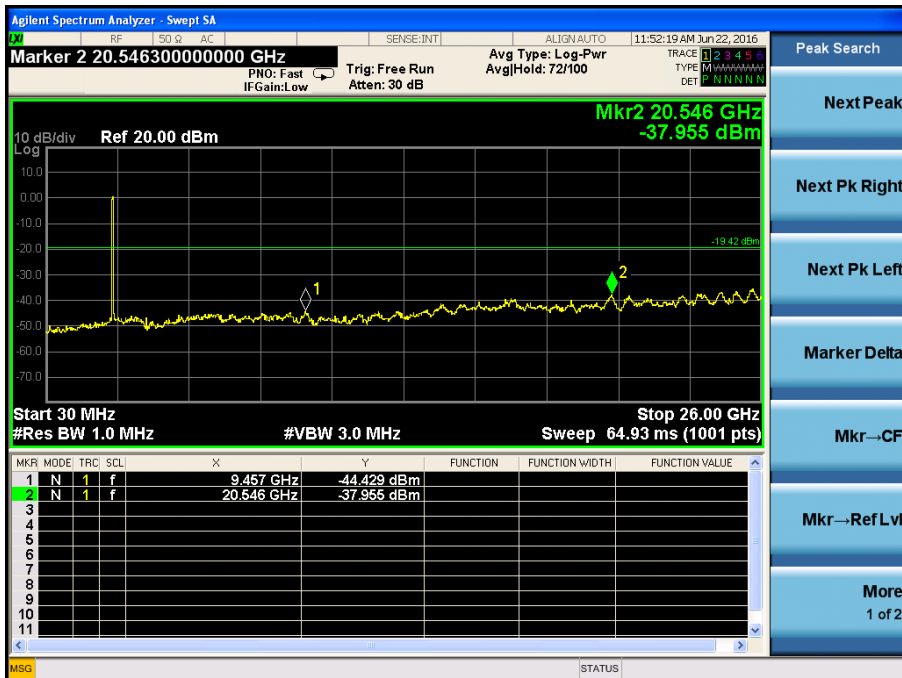
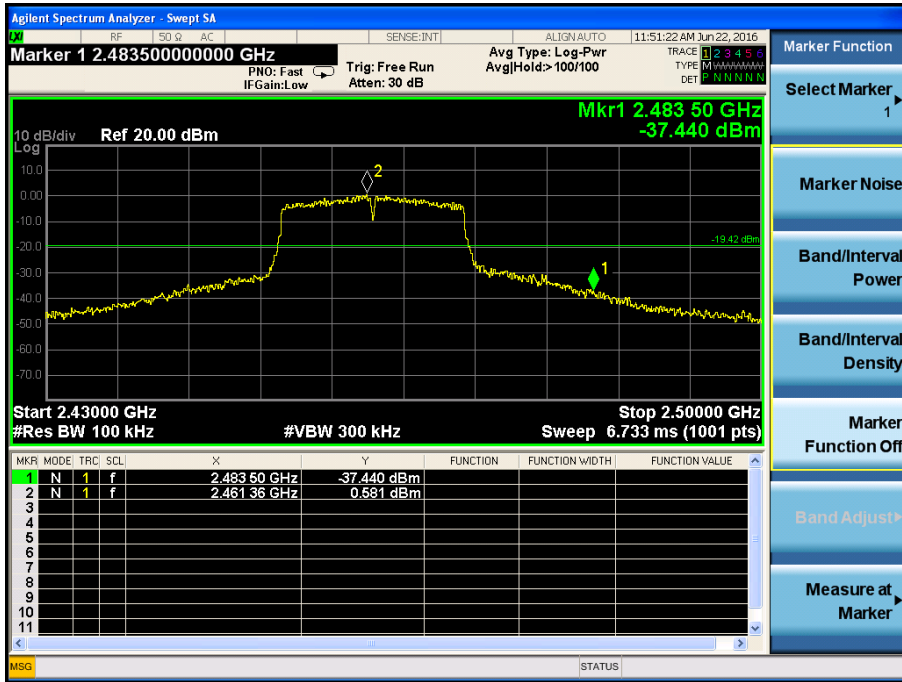
802.11n-HT20
Low Channel



Middle Channel



High Channel



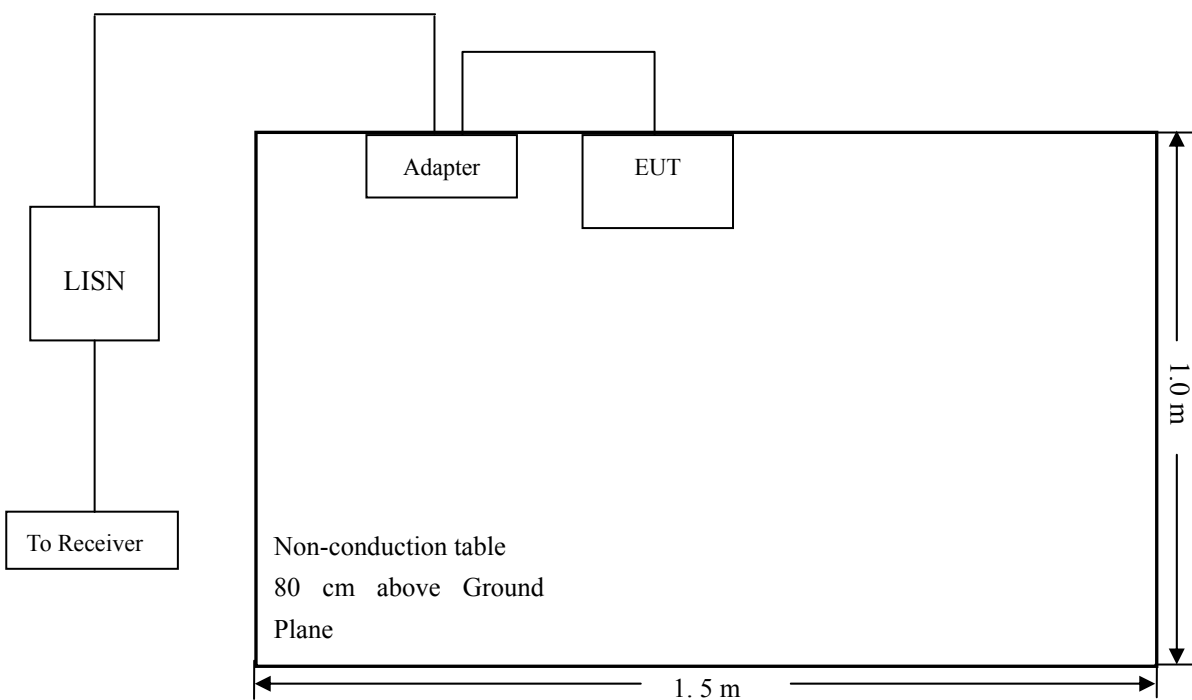
10. Conducted Emissions

10.1 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.

10.2 Basic Test Setup Block Diagram



10.3 Environmental Conditions

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

10.4 Test Receiver Setup

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

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

10.5 Summary of Test Results/Plots

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

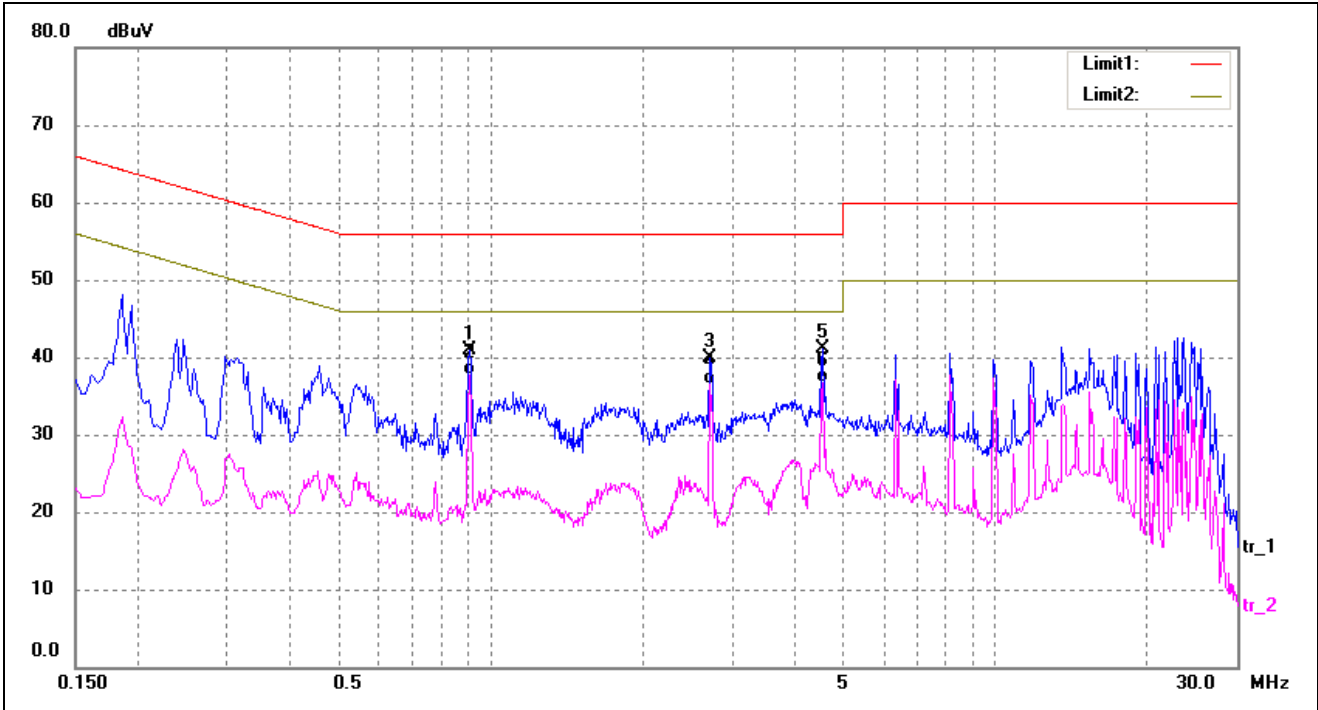
-8.10 dB at 2.702 MHz in the Line mode, Average detector, 0.15-30MHz

10.6 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

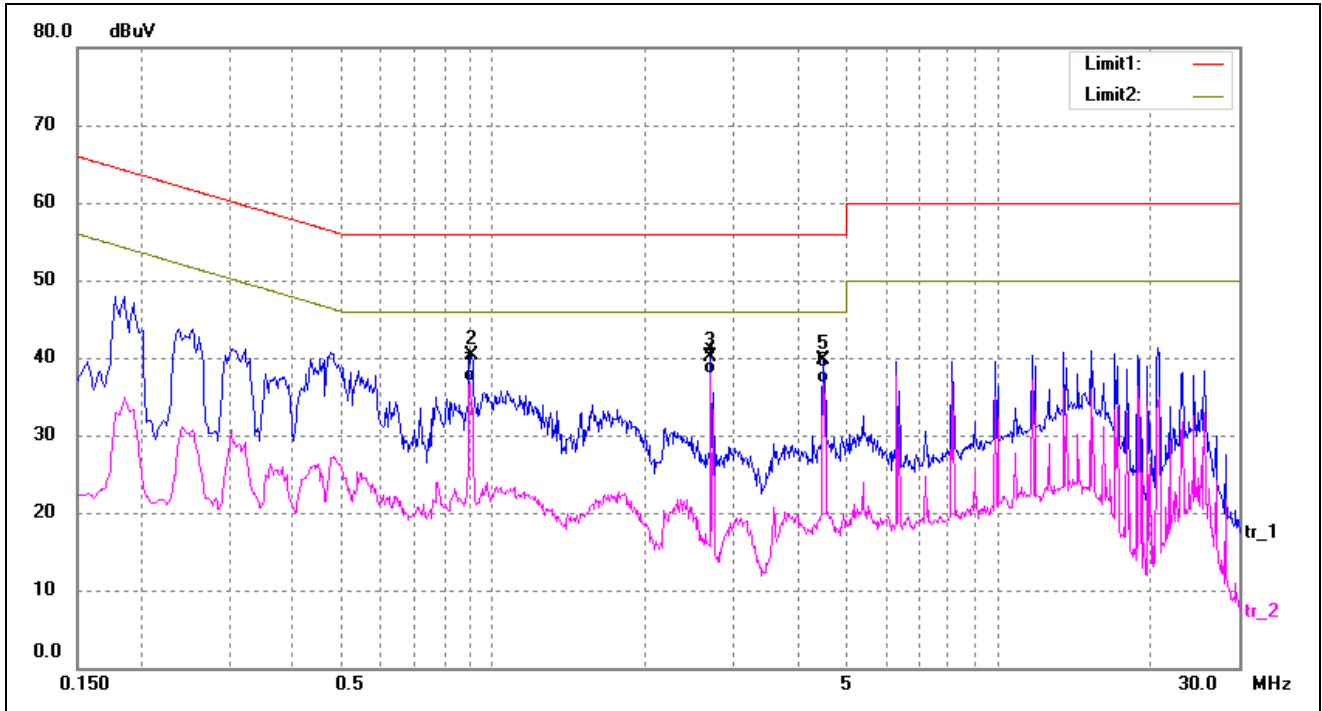
EUT: *Wireless Digital Display*
 Tested Model: *PXT510WR04G*
 Operating Condition: *Transmitting(Wi-Fi)*
 Comment: *AC 120V/60Hz; Adapter DC 12V*

Test Specification: *Neutral*



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.9060	31.33	9.66	40.99	56.00	-15.01	peak
2*	0.9060	28.13	9.66	37.79	46.00	-8.21	AVG
3	2.7180	29.98	9.92	39.90	56.00	-16.10	peak
4	2.7180	26.54	9.92	36.46	46.00	-9.54	AVG
5	4.5260	30.94	10.17	41.11	56.00	-14.89	peak
6	4.5260	26.55	10.17	36.72	46.00	-9.28	AVG

Test Specification: Live



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.9020	27.16	9.66	36.82	46.00	-9.18	AVG
2	0.9060	30.67	9.66	40.33	56.00	-15.67	peak
3	2.7020	30.17	9.92	40.09	56.00	-15.91	peak
4*	2.7020	27.98	9.92	37.90	46.00	-8.10	AVG
5	4.5020	29.45	10.17	39.62	56.00	-16.38	peak
6	4.5020	26.53	10.17	36.70	46.00	-9.30	AVG

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