

FCC Part 15 Subpart C Test Report

for DSSS System

Product Name : Android Moblie Data Terminal

Model Name : MX-5050-1D

Prepared for:

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Report Number: UL32220150710FCC009-5

Date of Report : 08-03-2015

Date of Test : 07-17-2015~08-03-2015

Notes:

The test results only relate to these samples which have been tested. Partly using this report will not be admitted unless been allowed by Unilab. Uniab is only responsible for the complete report with the reported stamp of Unilab.

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Applicant: Mexxen Technology(ShangHai)INC.

> 11,No. Unit B,12F,Building 518,xinzhuan Rd.. Songjiang

District, Shanghai, China

Mexxen Technology(ShangHai)INC. Manufacturer:

> B,12F,Building 11,No. 518,xinzhuan Rd., Songijang

District, Shanghai, China

Product Name: Android Moblie Data Terminal

Brand Name: MEXXEN

Model Name: MX-5050-1D

Model Description: See Part1.1 Note.

FCC ID: 2ADXO-MX-5050

Serial Number: N/A

EUT Voltage: AC input: AC 100~240V 50/60Hz 0.4A

Output: 5V 2A

Date of Receipt: 07-10-2015

Date of Test: 07-17-2015~08-03-2015

Test Standard: FCC CFR Tile 47 Part 15 Subpart C

ANSI C 63.4: 2009

KDB 558074 D01 v03r02

Test Result: PASS

> Teffrey wany Prepared by: (Technical Engineer: Jeffrey Wang)

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1. GENERAL INFORMATION

1.1 EUT DESCRIPTION

Product Name:	Android Moblie Data Terminal	
Model Name:	MX-5050-1D	
Hardware Version:	V3.0	
Software Version:	GST_A82_M30_3110955E_MUL_V02_2015 0619	
RF Exposure Environment:	Uncontrolled	
WIFI		
Frequency Range:	2412MHz~2472MHz	
Type of Modulation:	DSSS(BPSK/QPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM) MIMO-OFDM(BPSK/QPSK/16QAM/64QAM)	
Channel Number:	11	
Antenna Type:	Internal	
Antenna Peak Gain:	2.6dBi	
Component		
AC Adapter:	Input: AC 100-240V 50/60Hz 0.4A	
	Output: DC 5V 2A	

Note: We Mexxen Technology(ShangHai)INC.hereby declaration that the Model MX-5050-1D,MX-5050-2D,and Model MX-5050-EX, have the same PCBA design, and same accessories;And no any other difference except for model name.

1.2 TEST MODE

Unilab has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

<u>us.</u>	
Test Mode	
Mode 1: 802.11b CH1	
Mode 2: 802.11b CH6	
Mode 3: 802.11b CH11	
Mode 4: 802.11g CH1	
Mode 5: 802.11g CH6	
Mode 6: 802.11g CH11	
Mode 7: 802.11n20 CH1	
Mode 8: 802.11n20 CH6	
Mode 9: 802.11n20 CH11	
Mode 10: 802.11n40 CH3	
Mode 11: 802.11n40 CH6	
Mode 12: 802.11n40 CH9	

The conducted power table is as follows:

riadotod potro: tabio io do fonotro:					
Test Mode		Conduct Power(dBm)			
		Channel 1	Channel 6	Channel 11	
802.11b	rate 1	15.15	15.18	15.16	
002.110	rate 11	15.13	15.29	15.17	
802.11g	rate 6	15.04	15.13	14.98	
602.11g	rate 54	15.04	15.15	14.95	
802.11n20	rate MCS 0	15.09	15.21	15.13	
002.111120	rate MCS 7	15.06	15.25	15.13	
Test Mode		Channel 3	Channel 6	Channel 9	
802.11n40	rate MCS 0	15.73	15.84	15.64	
002.111140	rate MCS 7	15.72	15.89	15.63	

Note:

- 1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.
- 2. For the radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

2.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application

2.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements. According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

2.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009.

2.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7
6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294 8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	108 - 121.94 123 - 138 149.9 - 150.05 156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	1718.8 - 1722.2 2200 - 2300 2310 - 2390 2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	13.25 - 13.4 14.47 - 14.5 15.35 - 16.2 17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

2.5 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

After verification, all tests were carried out with the worst case test modes as shown below

IEEE802.11b mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 11Mbps data rate were chosen for full testing.

IEEE802.11g mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

² Above 38.6

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Channel High (2462MHz) with 54Mbps data rate were chosen for full testing.

IEEE802.11n20 mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

Channel High (2462MHz) with 65Mbps data rate were chosen for full testing.

IEEE802.11n40 mode:

Channel Low (2422MHz)

Channel Mid (2437MHz)

Channel High (2452MHz) with 135Mbps data rate were chosen for full testing.

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3. TECHNIACL SUMMARY

3.1 SUMMARY OF STANDARDS AND TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

Test Item	FCC	Result
Occupied Bandwidth	§15.247 (a)	Р
6 dB bandwidth	§15.247 (a)	Р
Power spectral density	§15.247 (e)	Р
Peak Output Power (Conduction)	§15.247 (b)	Р
Spurious Emissions (Conduction)	§15.247 (d)	Р
Band edge measurement	§15.247 (d)	Р
Spurious Emissions (Radiation)	§15.247 (d) §15.35 (b) §15.209 (a)	Р
AC Power Line Conducted Emissions	§15.207 (a)	Р

Note: P means pass, F means failure, N/A means not applicable

3.2 TEST UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Value (dB)
Conducted disturbance	3.4
Radiated disturbance	4.2

3.3 TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Due Date
Receiver	Agilent	N9038A	MY51210142	11/11/2015
Power meter	R&S	NRP2	101607	02/18/2016
Loop Antenna	Schwarzbeck	FMZB1519	1519-020	03/25/2016
LISN	R&S	ENV216	100069	07/27/2016
3m Chamber & Accessory Equipment	ETS-LINDGREN	FACT-3	CT-0000336	11/26/2017
Microwave Preamplifier	EM Electronics	EM30180	3008A02425	02/27/2016
Power Splitter	Agilent	11667C/ 52401	MY53806148	02/27/2016
Biconilog Antenna	Schwarzbeck	VULB 9160	3316	09/19/2016
Horn Antenna	Schwarzbeck	BBHA9120D	942	09/19/2016
Horn Antenna	Schwarzbeck	BBHA9120D	943	09/19/2016

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	Horn Antenna(18-40GHz)	ETS	3116	00070497	07/18/2016
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3.4 TEST FACILITY

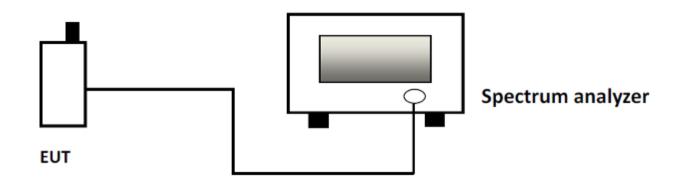
All test facilities used to collect the test data are located at No.1350, Lianxi Rd. Pudong New District, Shanghai, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4: 2009, CISPR 16-1-1 and other equivalent standards. The laboratory is compliance with the requirements of the ISO/IEC/E 17025.

3.5 TEST SETUP CONFIGURATION

The information contained within this report is intended to show verification of compliance of the EUT to the requirements of CFR 47 FCC Part 15.247. Unilab has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report.

4. OCCUPIED BANDWIDTH

4.1 TEST SETUP



4.2 LIMITS

Limits	≥25 kHz or 2 to 3 times the 20 dB bandwidth
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4.3 TEST PROCEDURE

Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum analyzer. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels.

WIFI: Low(1), Middle(6) and High (11).

Using occupied BW measurement function of spectrum analyzer and settings are:

XdB = -20dB

RBW = 100KHz

VBW ≥ 3 x RBW

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a channel

Sweep = auto

Detector function = peak

Trace = max hold

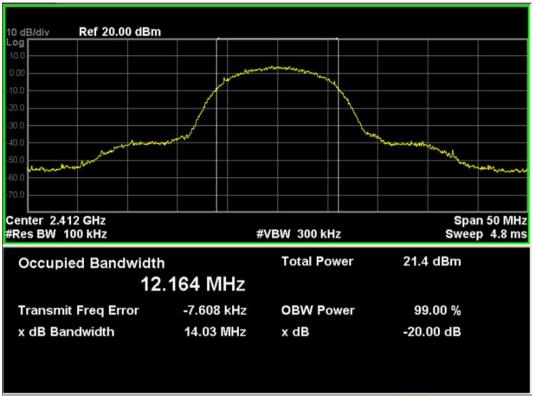
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4.4 TEST RESULTS

Channel	20dB bandwidth (MHz)	99% bandwidth (MHz)			
802.11b					
802.11b CH1	14.03	12.16			
802.11b CH6	13.99	12.17			
802.11b CH11	14.21	12.20			
802.11g					
802.11g CH1	17.47	16.36			
802.11g CH6	17.38	16.36			
802.11g CH11	17.19	16.33			
802.11n20					
802.11n CH1	18.12	17.53			
802.11n CH6	18.24	17.53			
802.11n CH11	18.16	17.54			
802.11n40					
802.11n CH3	37.13	35.99			
802.11n CH6	37.03	35.99			
802.11n CH9	37.04	35.89			

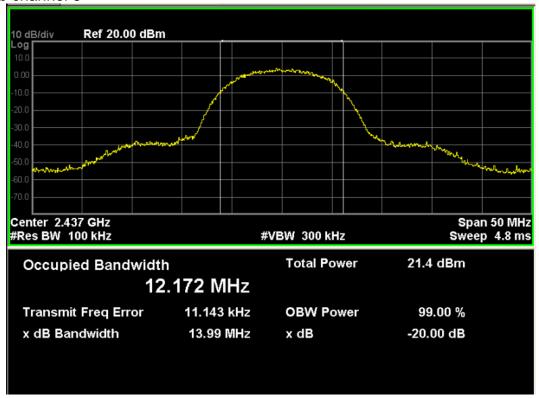
802.11b

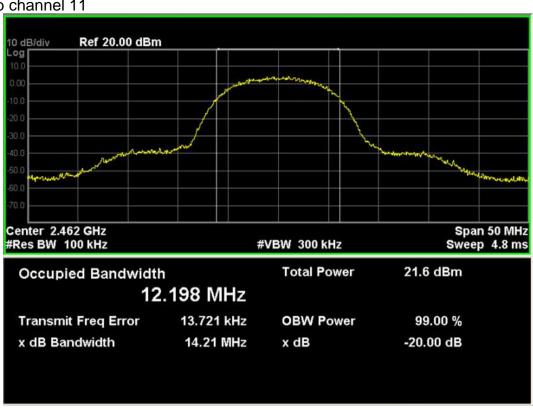


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802.11b channel 6



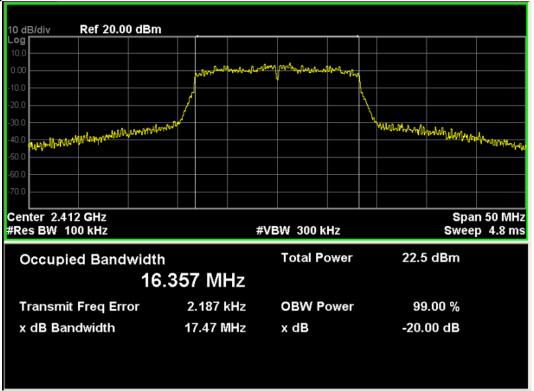


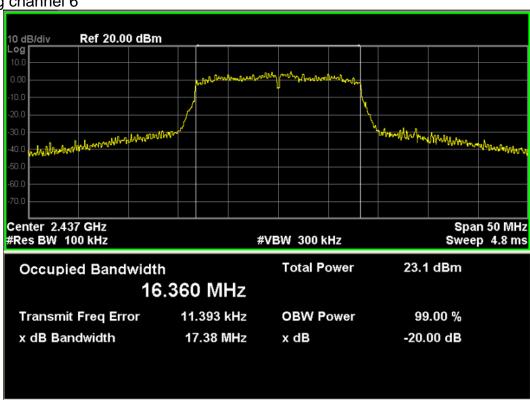
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802.11g

802.11g channel 1

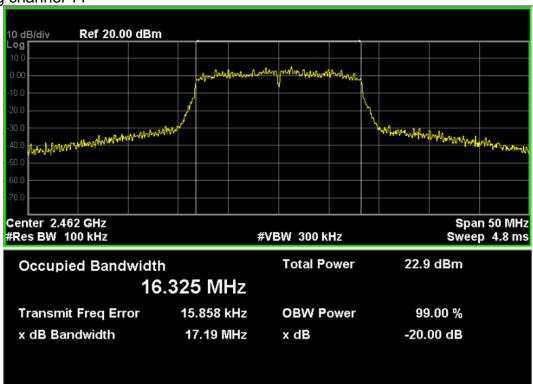




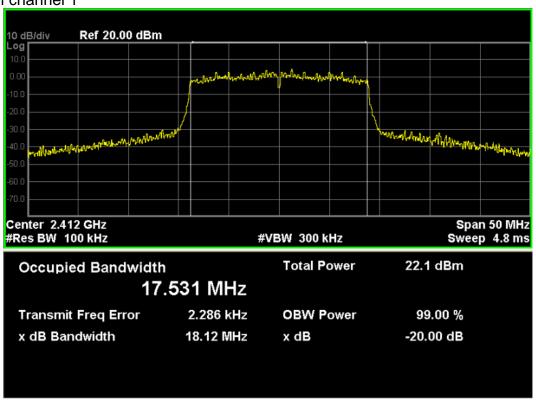
Report No.: UL32220150710FCC009-5



802.11g channel 11



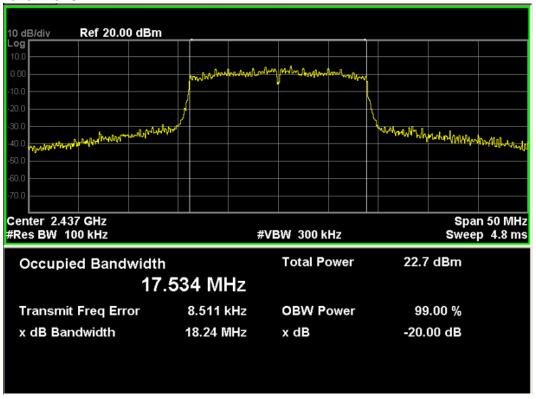
802.11n20

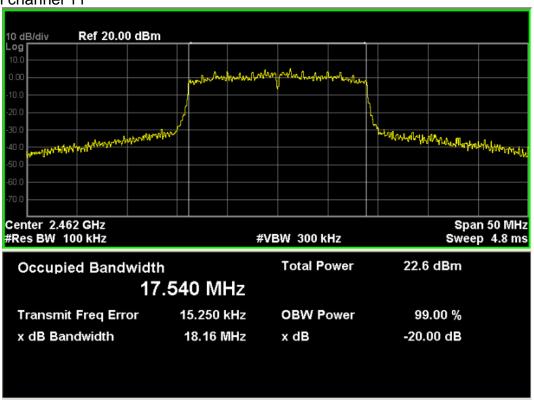


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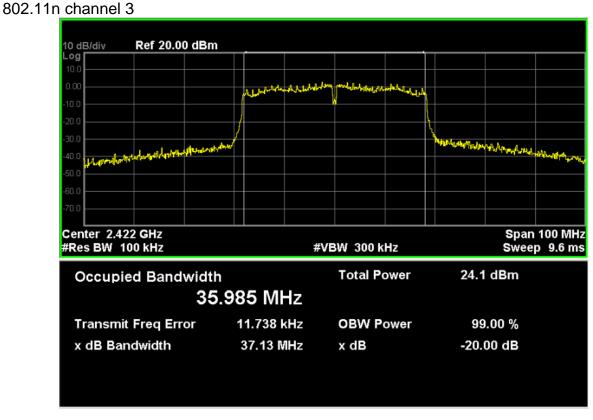
802.11n channel 6

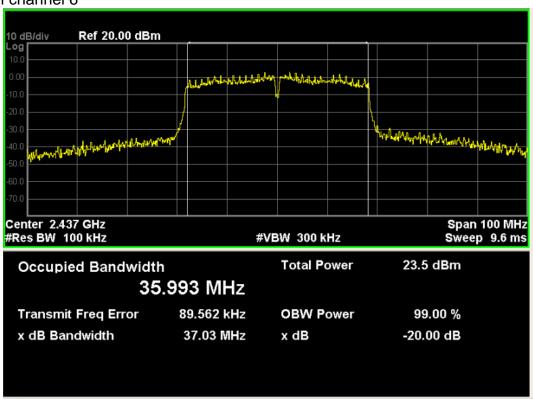




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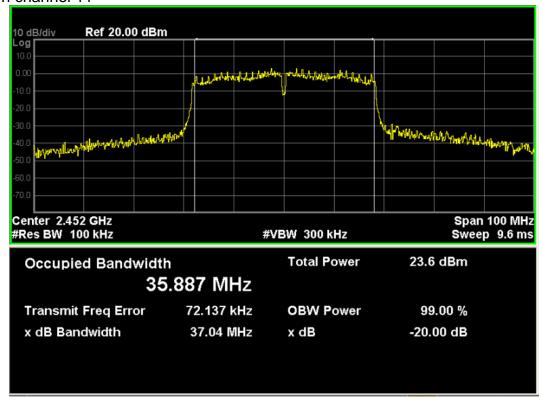
802.11n40





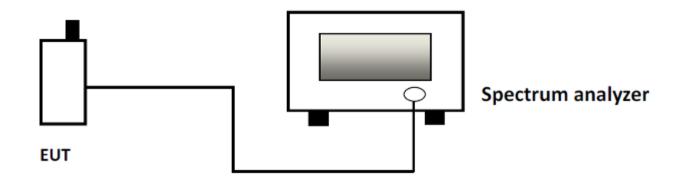
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5. 6 DB BANDWIDTH

5.1 TEST SETUP



5.2 LIMITS

Limit	≥500 kHz
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5.3 TEST PROCEDURE

Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum analyzer. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels.

WIFI: Low(1), Middle(6) and High (11).

Using occupied BW measurement function of spectrum analyzer and settings are:

XdB = -6dB

RBW = 100KHz

VBW ≥ 3 x RBW

Span = approximately 2 to 3 times the 6 dB bandwidth, centered on a channel

Sweep = auto

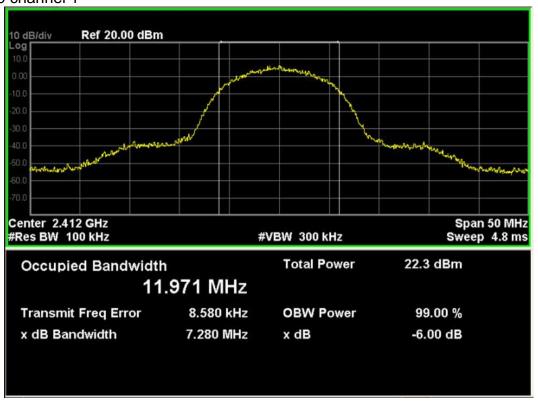
Detector function = peak

Trace = max hold

5.4 RESULTS & PERFORMANCE

Channel	Measured 6dB bandwidth (MHz)	Limit (MHz)	Result
000 445	Dandwidth (MH2)		
802.11b			
802.11b CH1	7.28	≥0.5	PASS
802.11b CH6	8.50	≥0.5	PASS
802.11b CH11	7.59	≥0.5	PASS
802.11g			·
802.11g CH1	15.45	≥0.5	PASS
802.11g CH6	15.16	≥0.5	PASS
802.11g CH11	15.47	≥0.5	PASS
802.11n20			
802.11n CH1	17.24	≥0.5	PASS
802.11n CH6	17.21	≥0.5	PASS
802.11n CH11	16.57	≥0.5	PASS
802.11n40			
802.11n CH3	33.95	≥0.5	PASS
802.11n CH6	35.21	≥0.5	PASS
802.11n CH9	35.23	≥0.5	PASS

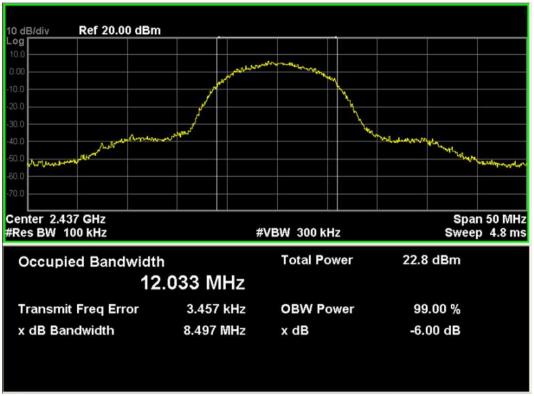
802.11b 802.11b channel 1

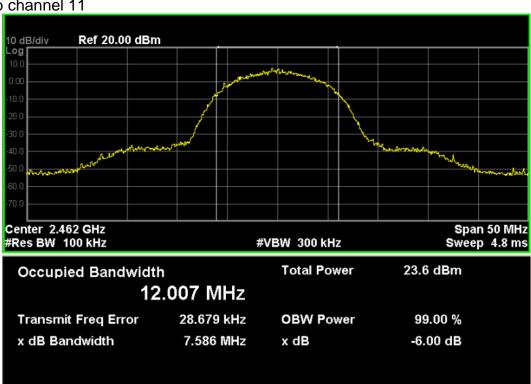


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802.11b channel 6



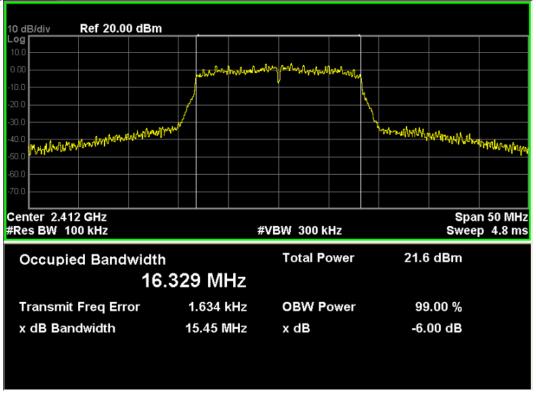


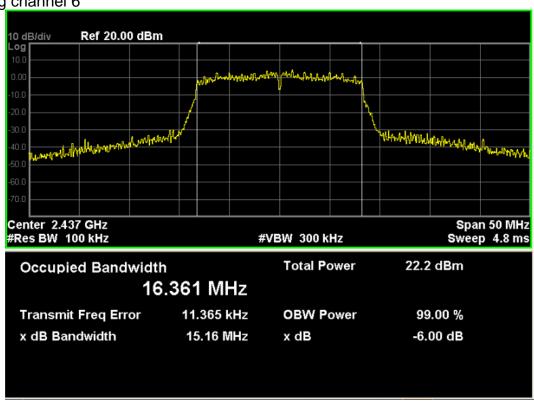
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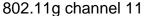
802.11g

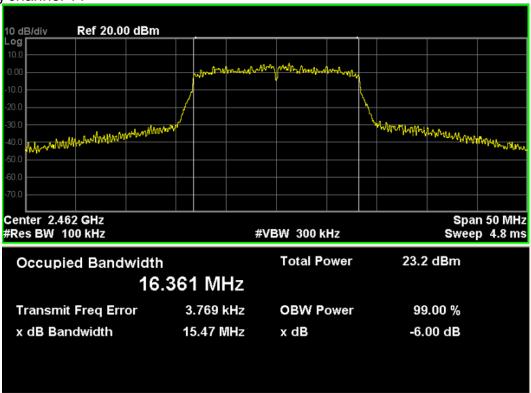
802.11g channel 1



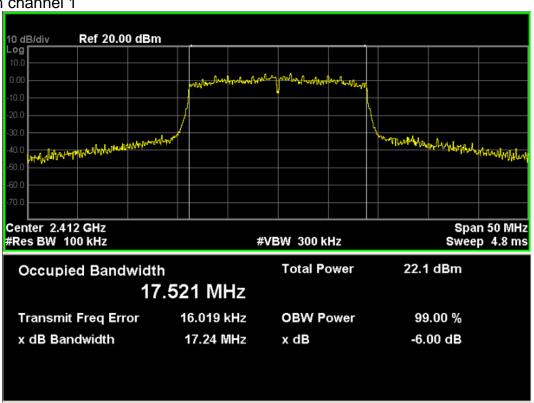


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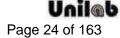




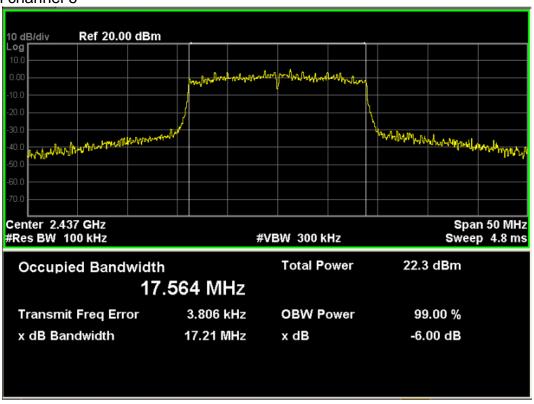
802.11n20 802.11n channel 1

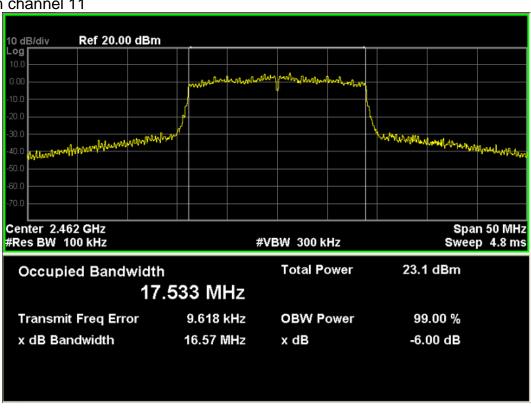


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802.11n channel 6



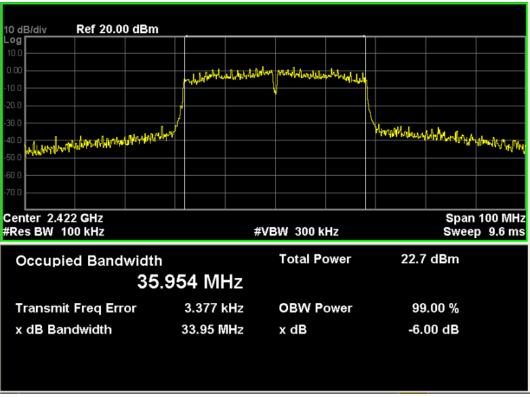


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802.11n40

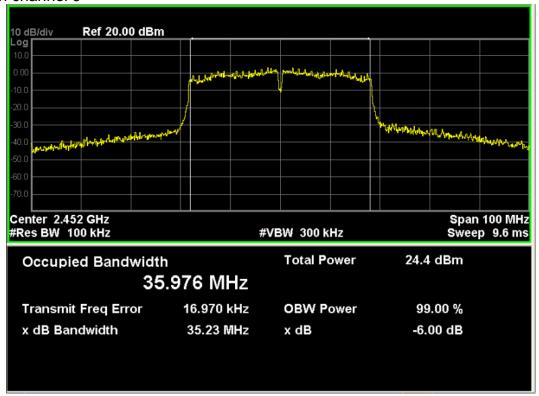
802.11n channel 3





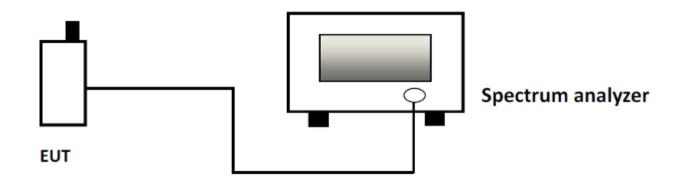
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6. POWER SPECTRAL DENSITY

6.1 TEST SETUP



6.2 LIMITS

Limits	≤8dBm/3kHz
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6.3 TEST PROCEDURE

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 3xRBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

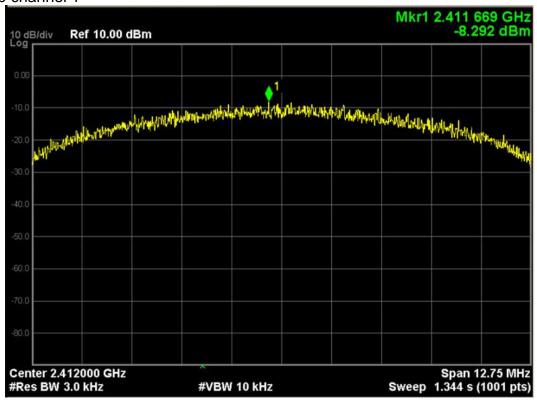
Allow trace to fully stabilize.

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.

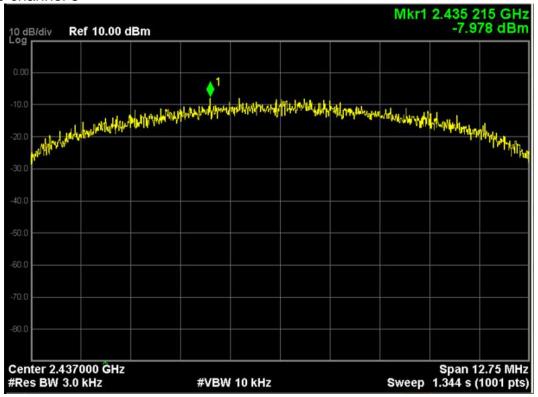
6.4 RESULTS & PERFORMANCE

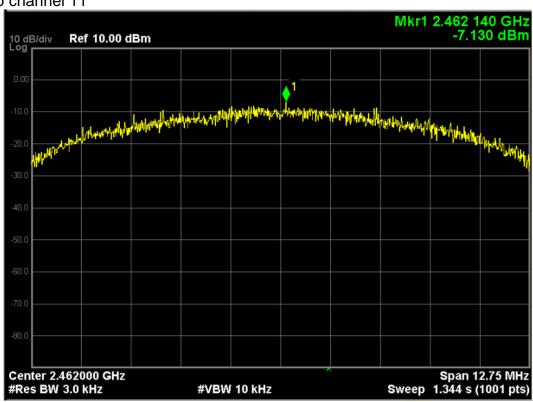
Mode	Channel	Measured level (dBm/3KHz)	Limit (dBm/3KHz)	Result
	CH1	-8.29	≤8.00	Pass
802.11b	CH6	-7.98	≤8.00	Pass
	CH11	-7.13	≤8.00	Pass
	CH1	-9.86	≤8.00	Pass
802.11g	CH6	-9.33	≤8.00	Pass
	CH11	-10.06	≤8.00	Pass
	CH1	-10.92	≤8.00	Pass
802.11n20	CH6	-9.88	≤8.00	Pass
	CH11	-10.12	≤8.00	Pass
	CH3	-12.87	≤8.00	Pass
802.11n40	CH6	-12.76	≤8.00	Pass
	CH9	-12.24	≤8.00	Pass

802.11b 802.11b channel 1

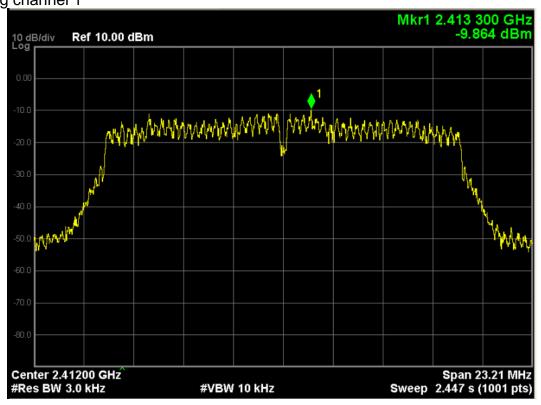


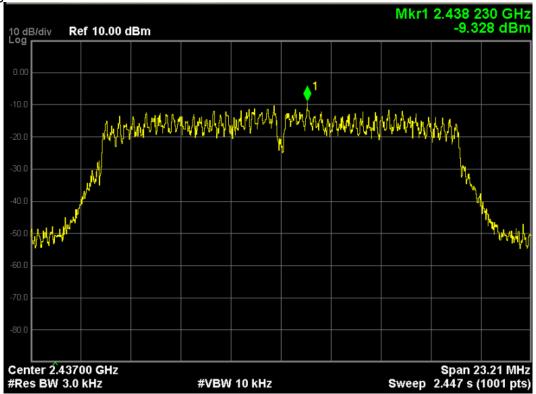
802.11b channel 6



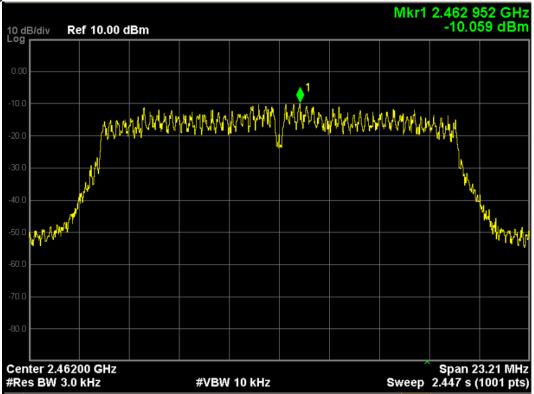


802.11g 802.11g channel 1

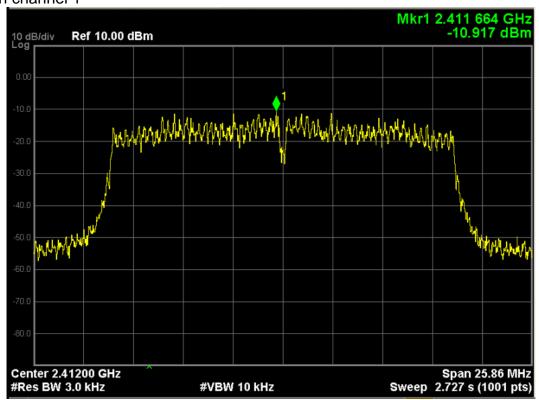




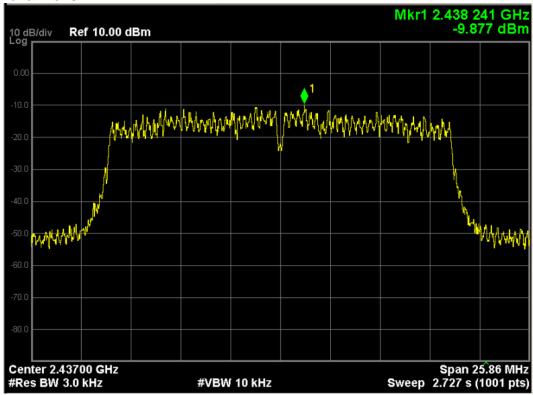
Unilab

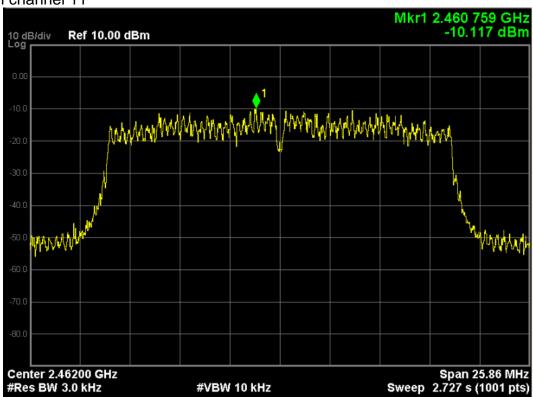


802.11n20 802.11n channel 1

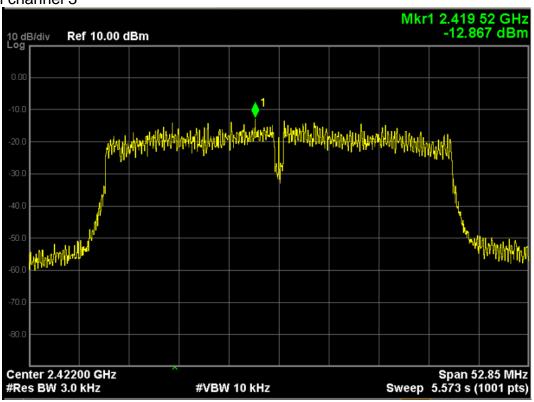


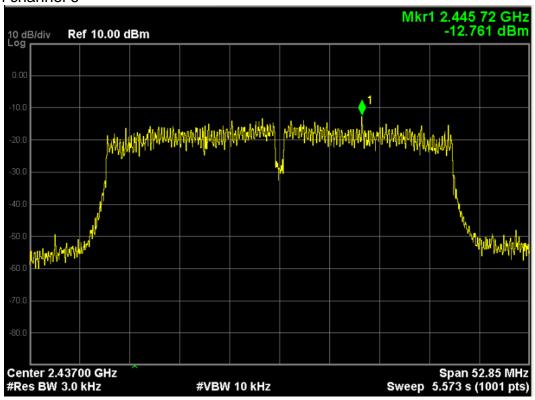
802.11n channel 6





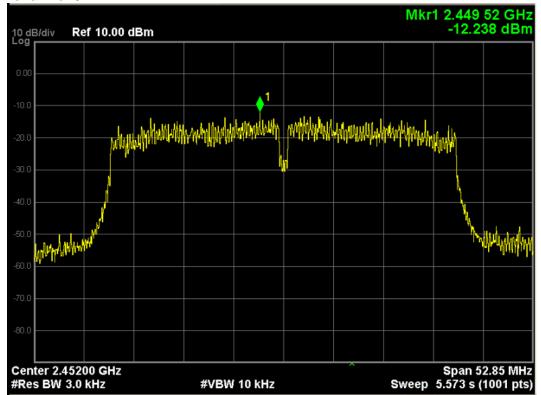
802.11n40 802.11n channel 3





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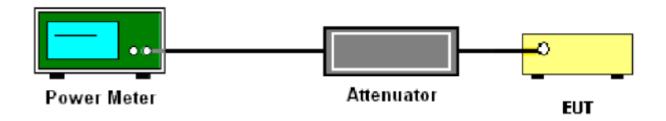


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7. PEAK OUTPUT POWER (CONDUCTION)

7.1 TEST SETUP



7.2 LIMITS

Limits	<30dBm
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7.3 TEST PROCEDURE

Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to spectrum analyzer. The loss between RF output port of the EUT and the input port of the tester will be taken into consideration.

The measurement will be conducted at three channels.

WIFI: Low(1), middle(6) and High (11).

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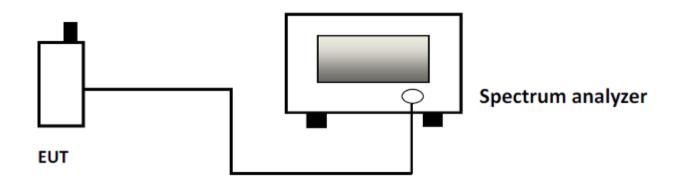


7.4 RESULTS & PERFORMANCE

	802.1	1b	
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
1 (2412MHz)	15.13	30	14.87
6 (2437MHz)	15.29	30	14.71
11 (2462MHz)	15.17	30	14.83
	802.1	1g	
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
1 (2412MHz)	15.04	30	14.96
6 (2437MHz)	15.15	30	14.85
11 (2462MHz)	14.95	30	15.05
	802.111	n20	
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
1 (2412MHz)	15.06	30	14.94
6 (2437MHz)	15.25	30	14.75
11 (2462MHz)	15.13	30	14.87
	802.111	n40	
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
3 (2422MHz)	15.72	30	14.28
6 (2437MHz)	15.89	30	14.11
9 (2452MHz)	15.63	30	14.37

8. SPURIOUS EMISSIONS (CONDUCTION)

8.1 TEST SETUP



8.2 LIMITS

Limit	<(P-20dB)
Note: P is the highest level of the desired power	

8.3 TEST PROCEDURE

The EUT was connected to Spectrum Analyzer and Base Station via power divider. Use the following spectrum analyzer settings:

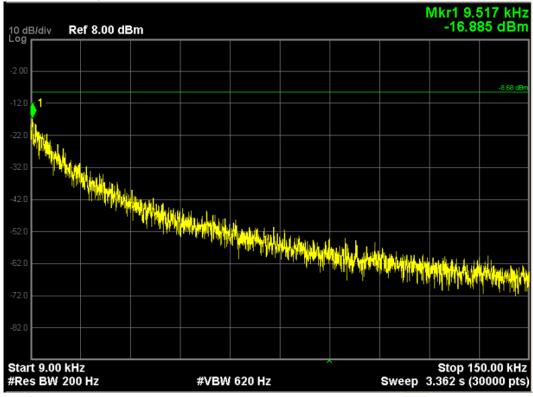
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

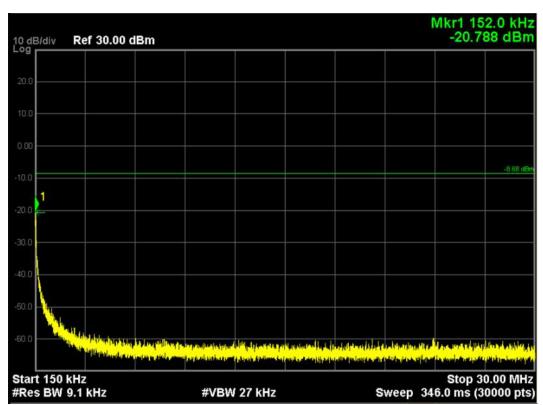
RBW = 100 kHz;VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

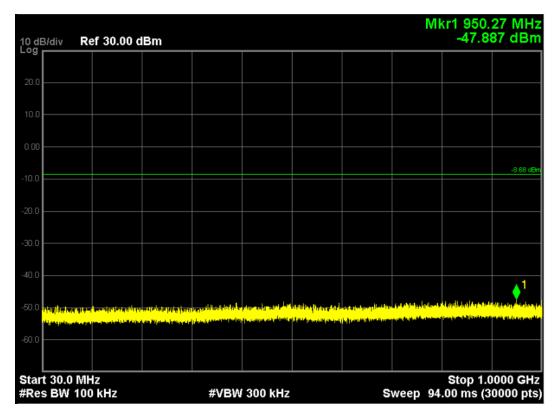
8.4 RESULTS & PERFORMANCE

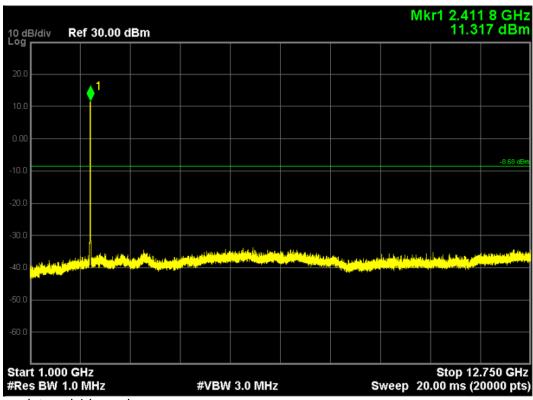
802.11b, traffic mode; Channel 1





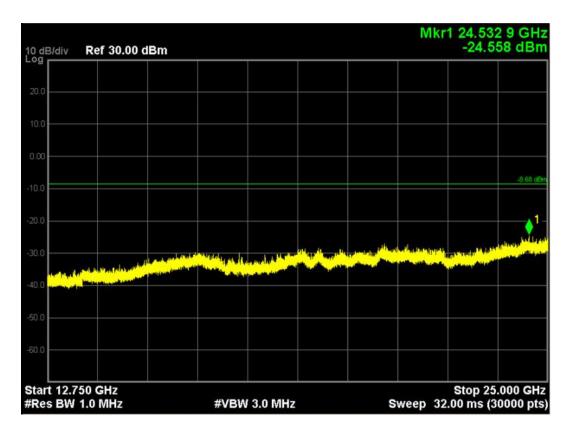




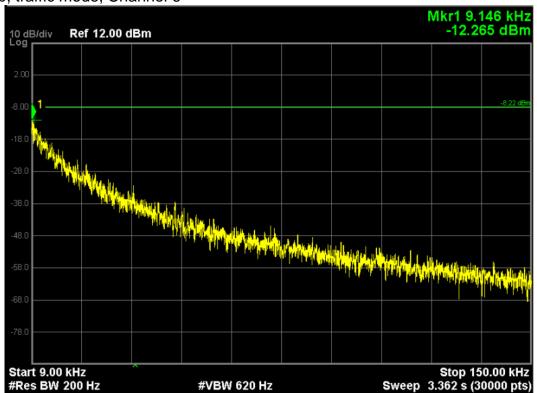


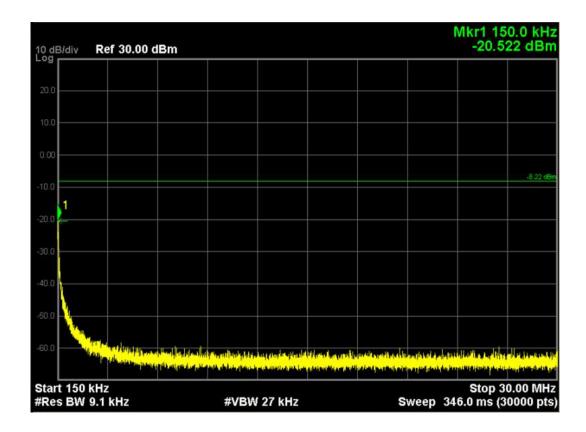
Note: The point mark1 is carrier.

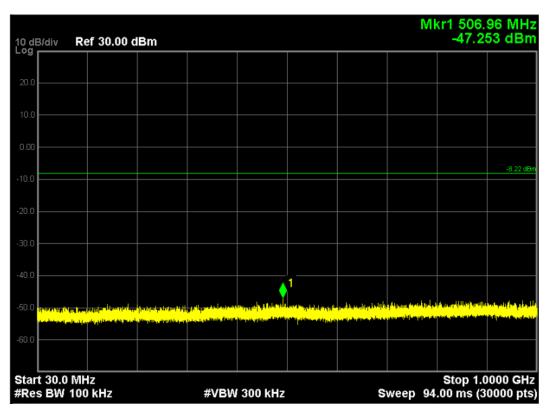


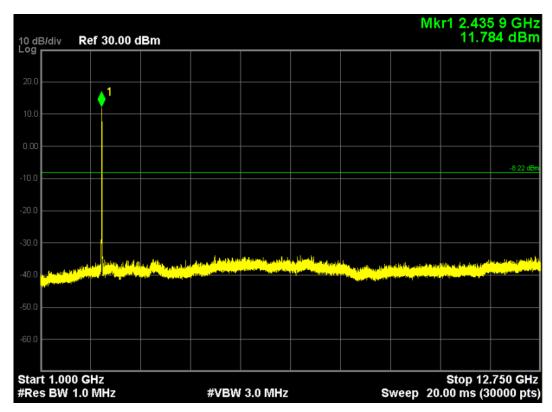


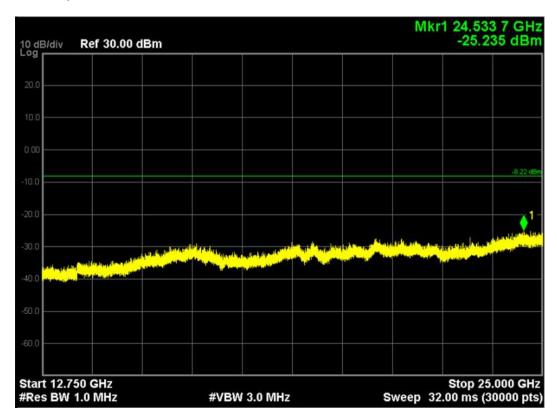
802.11b, traffic mode; Channel 6





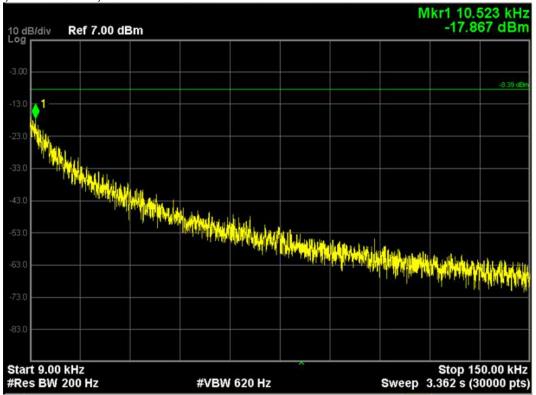


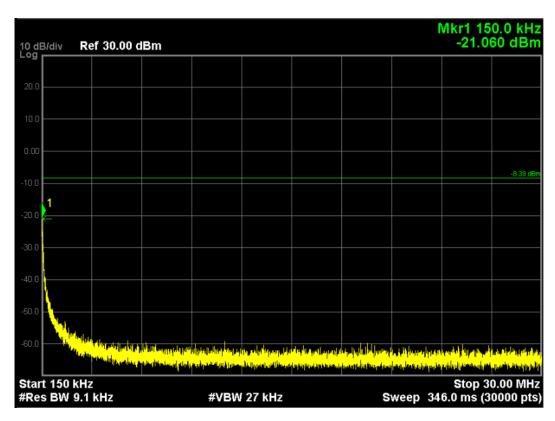


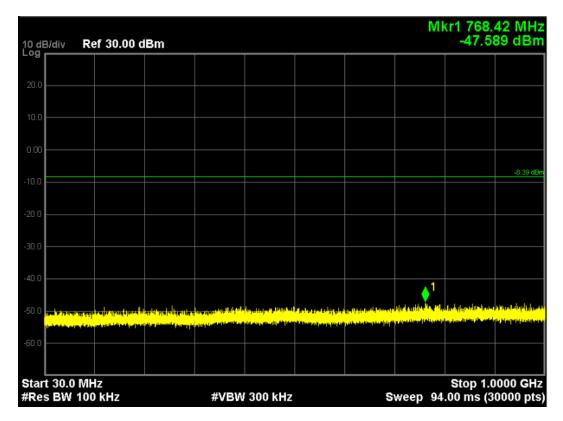


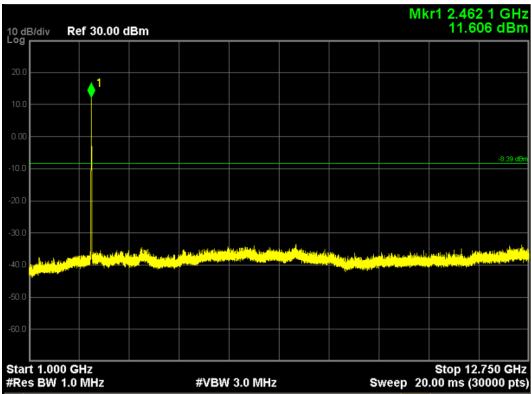


802.11b, traffic mode; Channel 11

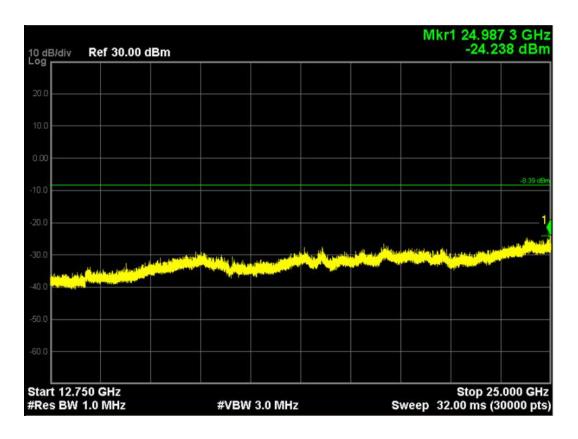




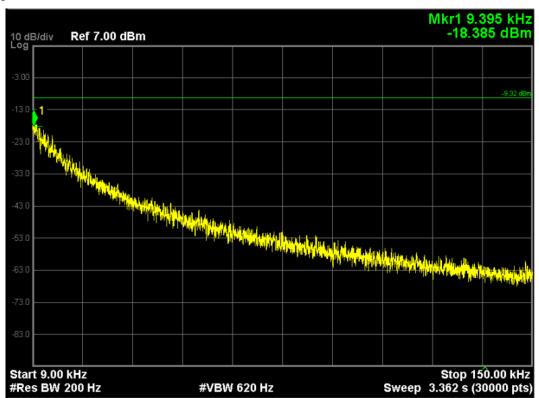




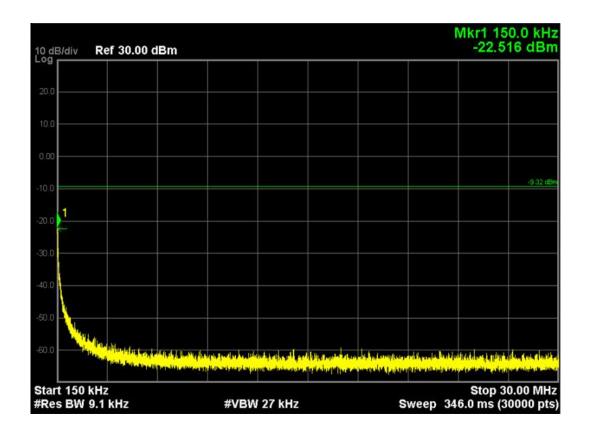


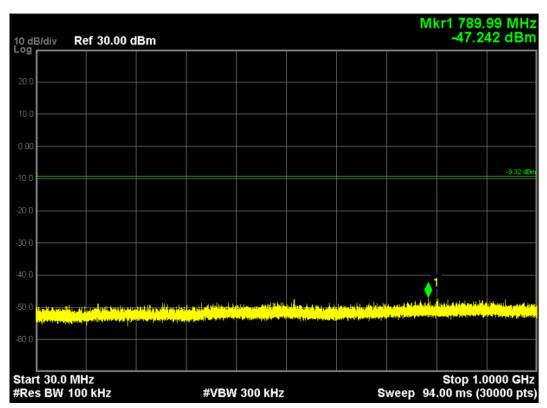


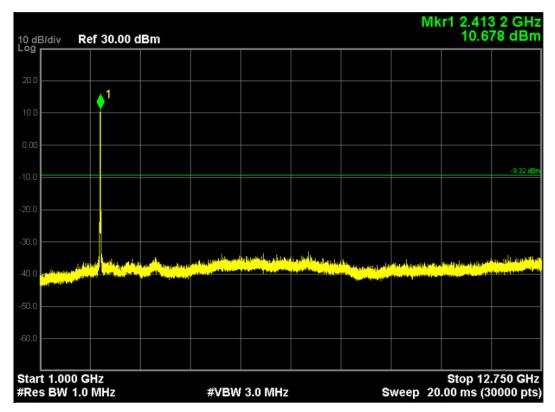
802.11g, traffic mode; Channel 1

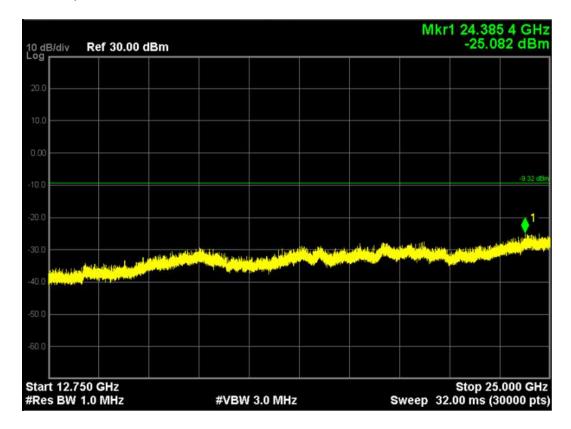




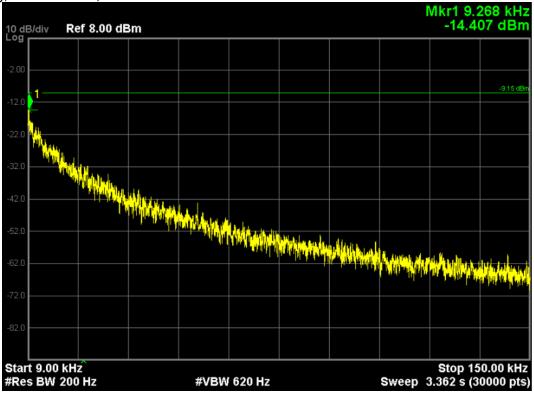


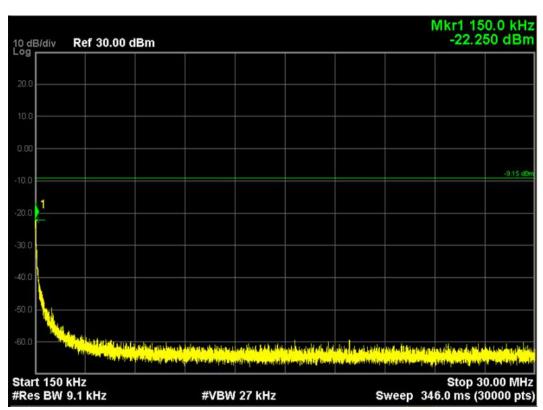


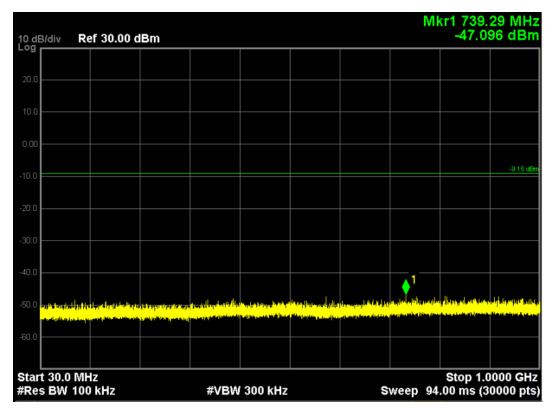


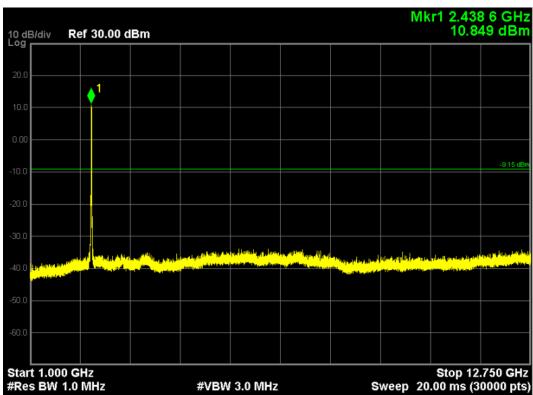


802.11g, traffic mode; Channel 6

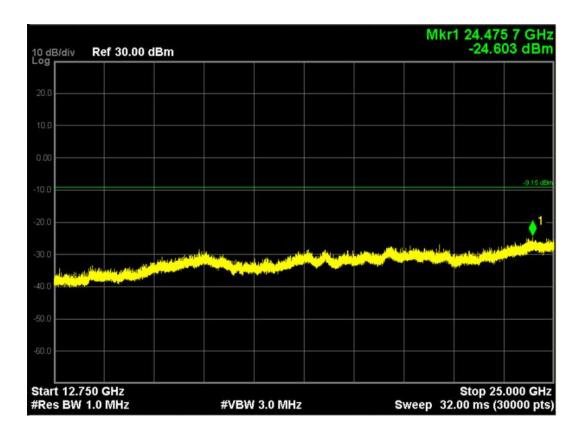


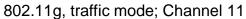


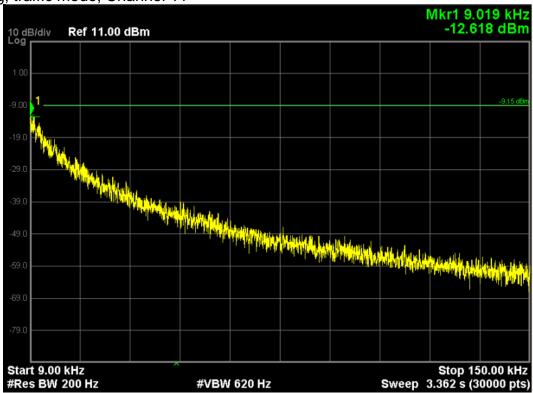




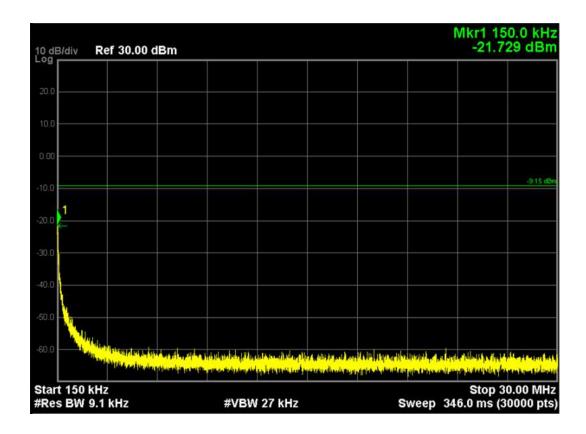


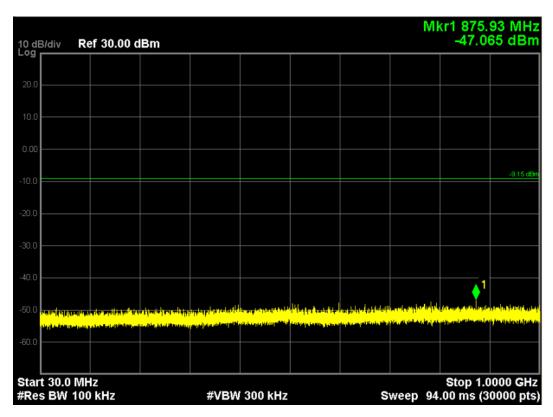


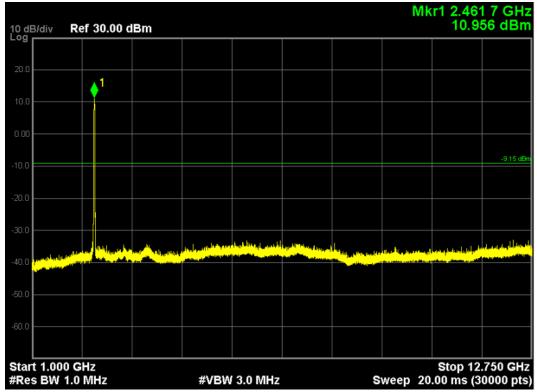


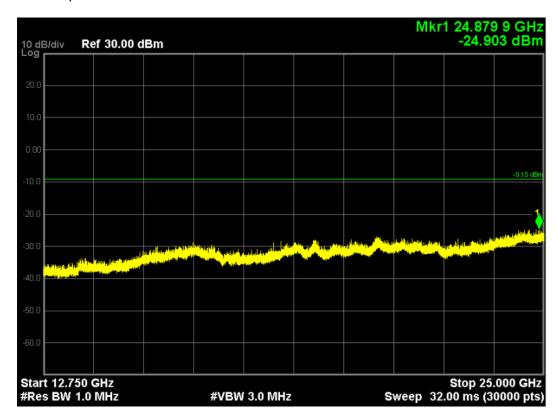






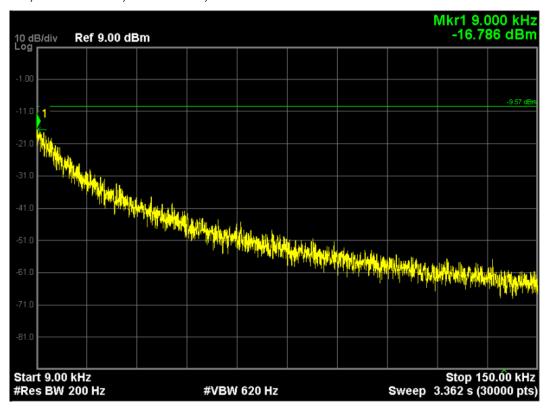


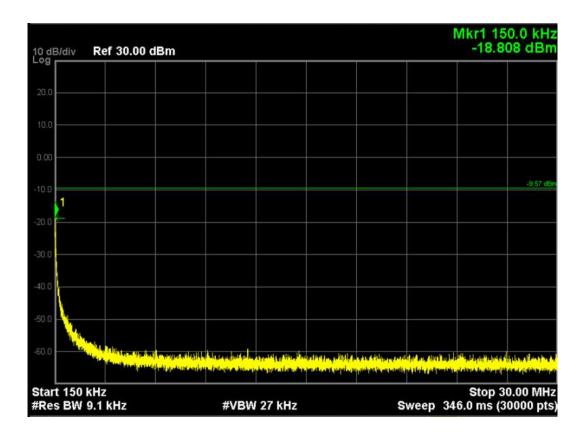




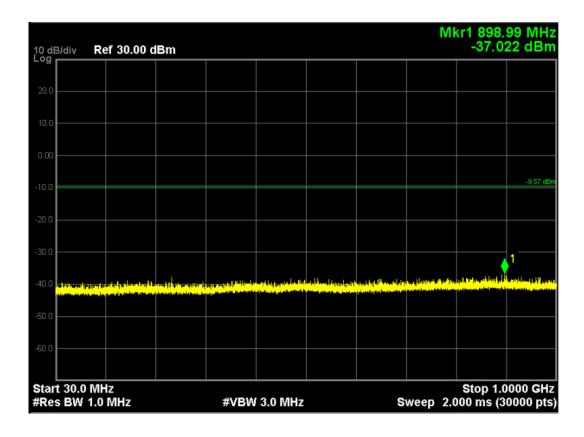


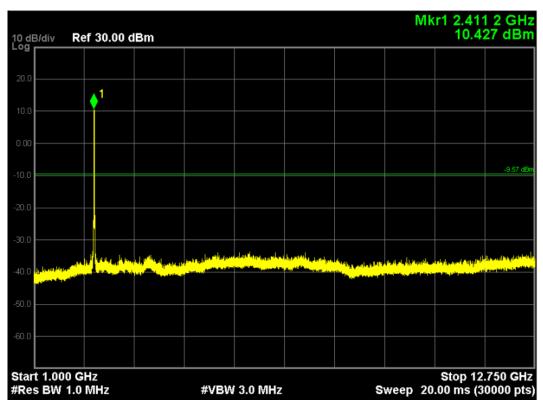
802.11n20, traffic mode; Channel 1;



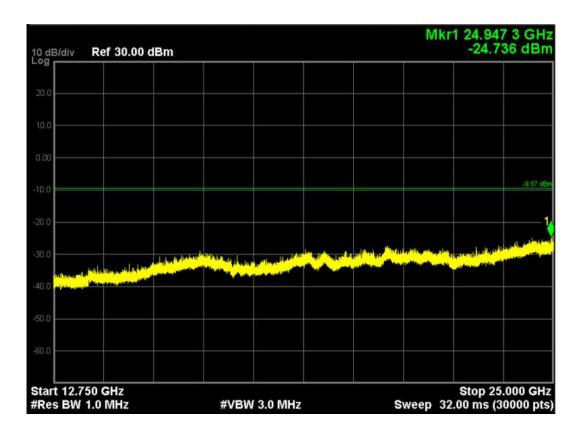




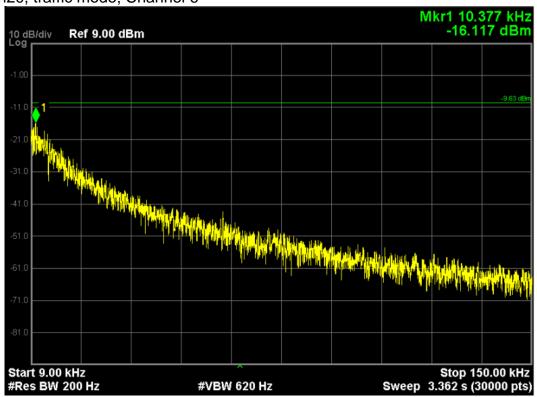




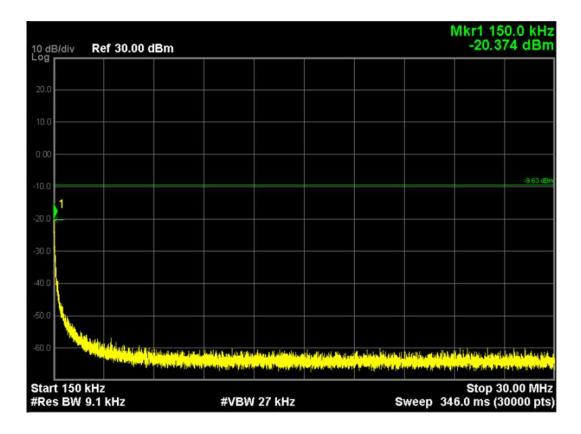


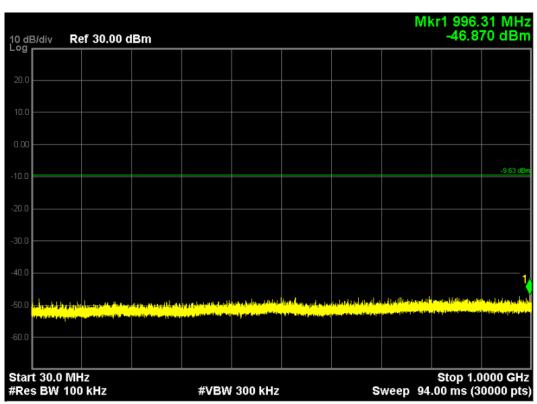


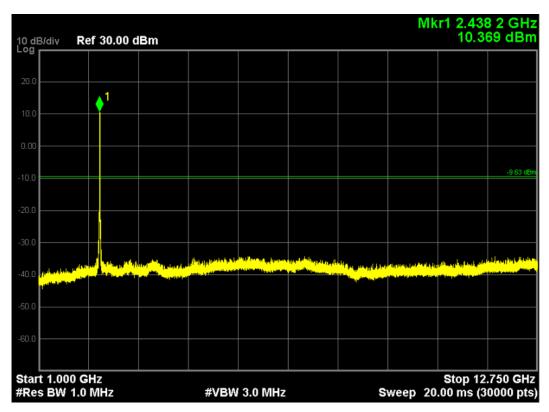
802.11n20, traffic mode; Channel 6

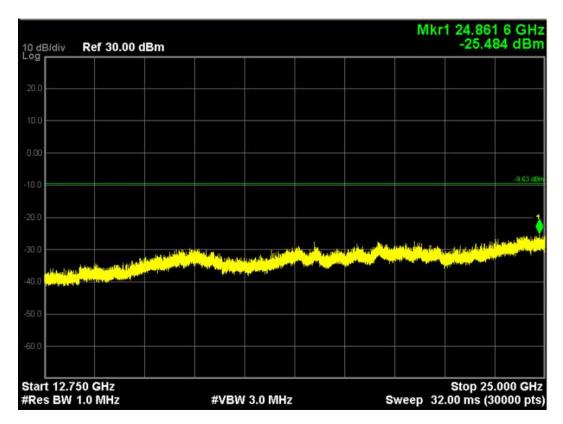




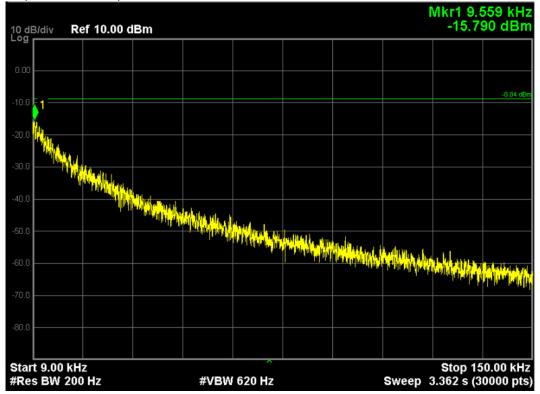


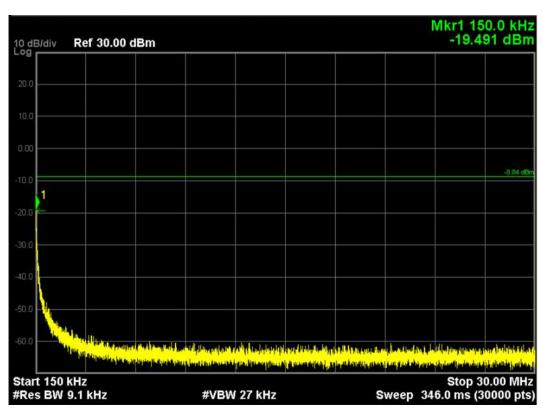


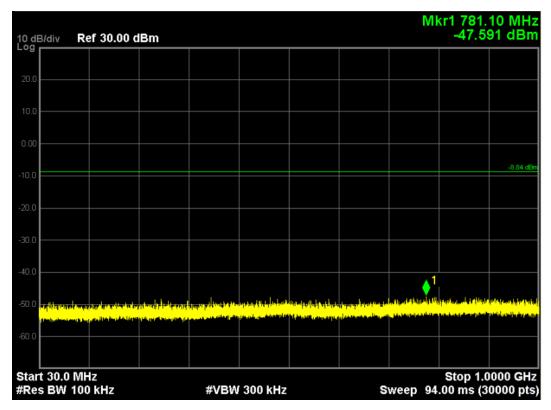


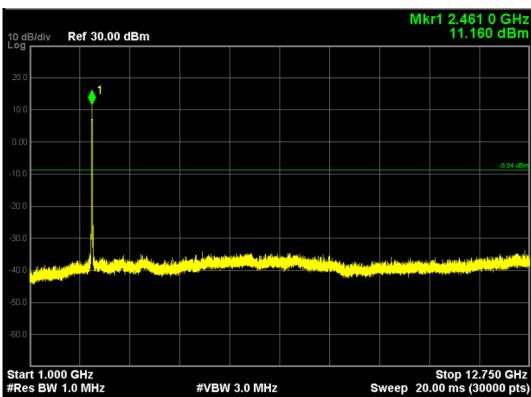


802.11n20, traffic mode; Channel 11

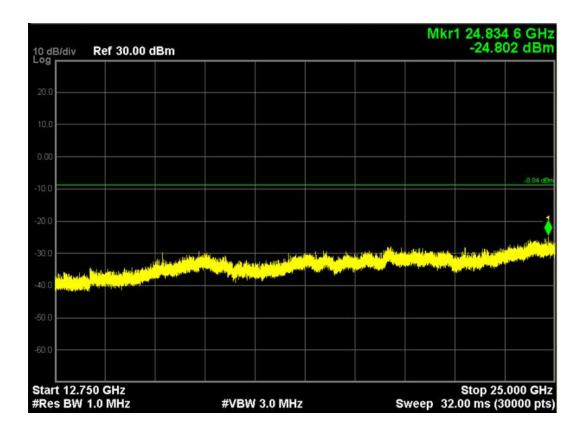












802.11n40, traffic mode; Channel 3

