FCC Part 15C
Measurement and Test Report

For

Guizhou CVIM Technology Co., Ltd.

4th Floor, 5th R&D Building, Zunyi Software Park, Xiazi Town, Xinpu New District, Zunyi, Guizhou

FCC ID: 2AKWS-CAN

FCC Rule(s):	FCC Part 15C
Product Description:	SMART PROJECTOR
Tested Model:	CAN
Report No.:	STRD1806072I-1
Sample Receipt Date:	2018-06-13
Tested Date:	2018-06-13 to 2018-06-28
Issued Date:	2018-06-28
Tested By:	Long Tang/ Engineer
Reviewed By:	Silin Chen / EMC Manager
Approved & Authorized By:	Jandy So / PSQ Manager

Prepared By:

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Guizhou CVIM Technology Co., Ltd.
Address of applicant:	4th Floor, 5th R&D Building, Zunyi Software Park, Xiazi Town, Xinpu New District, Zunyi, Guizhou
Manufacturer:	Guizhou CVIM Technology Co., Ltd.
Address of manufacturer:	4th Floor, 5th R&D Building, Zunyi Software Park, Xiazi Town, Xinpu New District, Zunyi, Guizhou

General Description of EUT	
Product Name:	SMART PROJECTOR
Trade Name:	wowoto
Model No.:	CAN
Adding Model(s):	CAN Pro
Rated Voltage:	Battery: DC 11.1V
Battery:	2600mAh
Power Adapter Model:	MOEDL: ADP40KD AB Input: 100-240V~50-60Hz, 1.2A Output: 19Vdc 2.1A
Software Version:	WWT-X6E-HM-V1.06-7632-20180126
Hardware Version:	IPRO_20_MSD6A628VX_V8.1
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 CAN, but the circuit and the electronic construction do not change, declared by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	12.90 dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 300Mbps
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral
Antenna Gain:	0dBi
Lowest Internal Frequency	32.768kHz

1.2 Test Standards

The following report is prepared on behalf of the Guizhou CVIM Technology Co., 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 V04 for digital transmission systems and KDB 662911 D01 Multiple Transmitter Output v02r01 shall be performed also.

1.4 Test Facility

FCC – Registration No.: 125990

Shenzhen SEM Test Technology Co., Ltd. Laboratory has been recognized to perform compliance testing on equipment subject to the Commissions Declaration Of Conformity (DOC). The Designation Number is CN5010, and Test Firm Registration Number is 125990.

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.

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, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	2412MHz, 2437MHz, 2462MHz
TM2	802.11g	2412MHz, 2437MHz, 2462MHz
TM3	802.11n-HT20	2412MHz, 2437MHz, 2462MHz
TM4	802.11n-HT40	2422MHz, 2437MHz, 2452MHz
Note: All test modes (different data rate and different modulation) are performed, but only the worst case is recorded in this report.		

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
/	/	/	/

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

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	±0.42dB
Occupied Bandwidth	Conducted	±1.5%
Power Spectral Density	Conducted	±1.8dB
Conducted Spurious Emission	Conducted	±2.17dB
Conducted Emissions	Conducted	9-150kHz ±3.74dB
		0.15-30MHz ±3.34dB
Transmitter Spurious Emissions	Radiated	30-200MHz ±4.52dB
		0.2-1GHz ±5.56dB
		1-6GHz ±3.84dB
		6-18GHz ±3.92dB

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2018-05-22	2019-05-21
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2018-05-22	2019-05-21
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2018-05-22	2019-05-21
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2018-05-22	2019-05-21
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2018-05-22	2019-05-21
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2017-06-08	2020-06-07
SEMT-1042	Horn Antenna	ETS	3117	00086197	2017-06-08	2020-06-07
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2017-06-08	2020-06-07
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2017-06-08	2020-06-07
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2018-05-22	2019-05-21
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2018-05-22	2019-05-21
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2018-05-22	2019-05-21
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2018-05-22	2019-05-21
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2018-05-22	2019-05-21
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2018-05-22	2019-05-21
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2018-03-19	2021-03-18
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2018-05-22	2019-05-21
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2018-05-22	2019-05-21
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2018-05-22	2019-05-21
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2018-03-19	2019-03-18
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2018-03-19	2019-03-18
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2018-03-19	2019-03-18
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2018-03-19	2019-03-18
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2018-03-19	2019-03-18

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 § 2.1091, the mobile transmitter must comply the RF exposure requirements.

3.2 Test Result

This product complied with the requirement of the RF exposure, please see the RF Exposure Report.

4. Antenna Requirement

4.1 Standard Applicable

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

4.2 Evaluation Information

This product has two integral antennas, 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 V04, 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 kHz ≤ RBW ≤ 100 kHz. .
d) Set VBW ≥3 x RBW.
e) Detector = power averaging (RMS) or sample detector (when RMS not available).
f) Ensure that the number of measurement points in the sweep ≥ 2 x 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

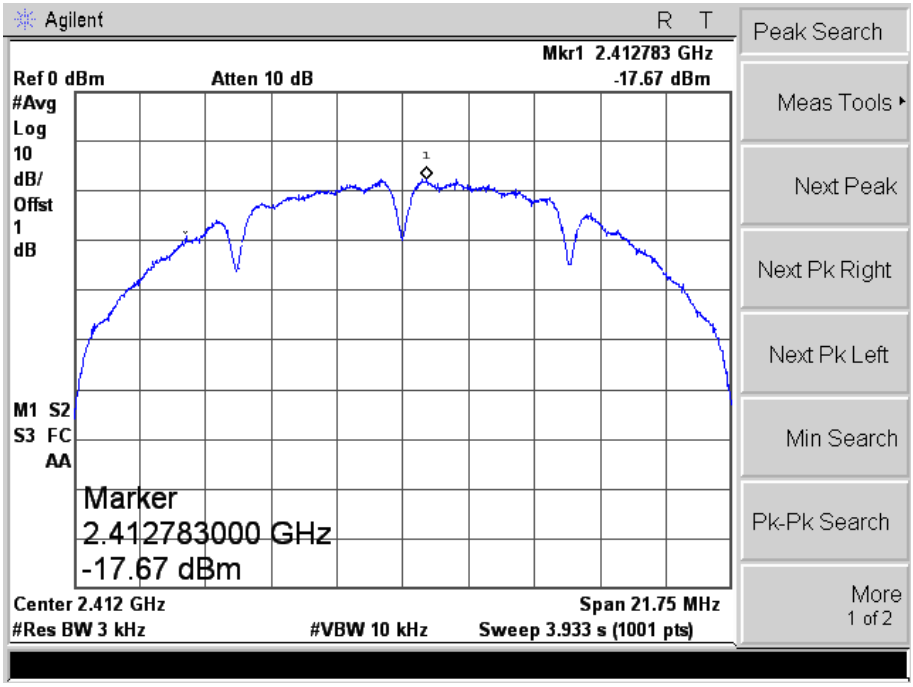
5.4 Summary of Test Results/Plots

Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz			Limit dBm/3kHz
		Antenna 1	Antenna 2	Total	
802.11b	2412	-17.67	-17.58	/	8
	2437	-17.59	-17.31	/	8
	2462	-18.37	-18.31	/	8
802.11g	2412	-19.62	-19.73	/	8
	2437	-19.83	-18.97	/	8
	2462	-19.32	-19.66	/	8
802.11n HT20	2412	-20.47	-21.07	-17.67	8
	2437	-20.22	-20.36	-17.33	8
	2462	-20.95	-20.95	-17.47	8
802.11n HT40	2422	-24.58	-24.73	-21.22	8
	2437	-23.97	-23.60	-20.51	8
	2452	-24.12	-24.25	-20.72	8

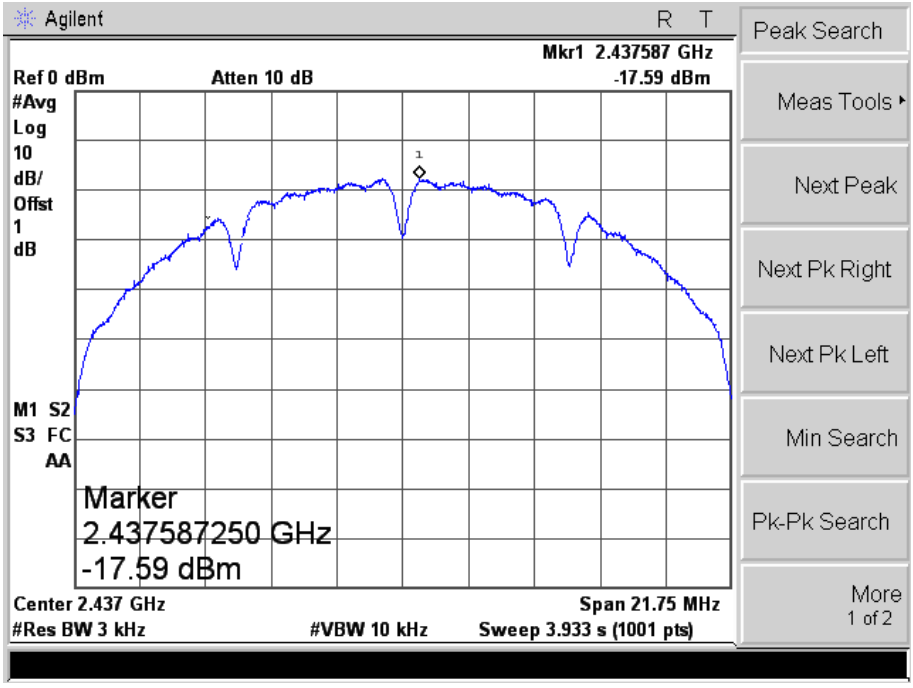
Please refer to the following test plots:

Antenna 1

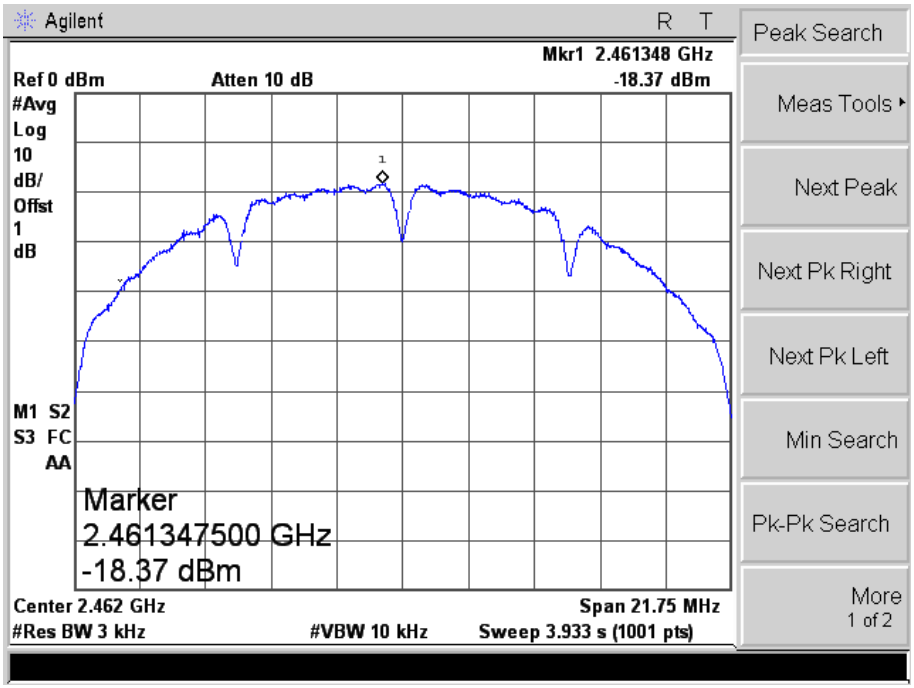
802.11b-Low Channel



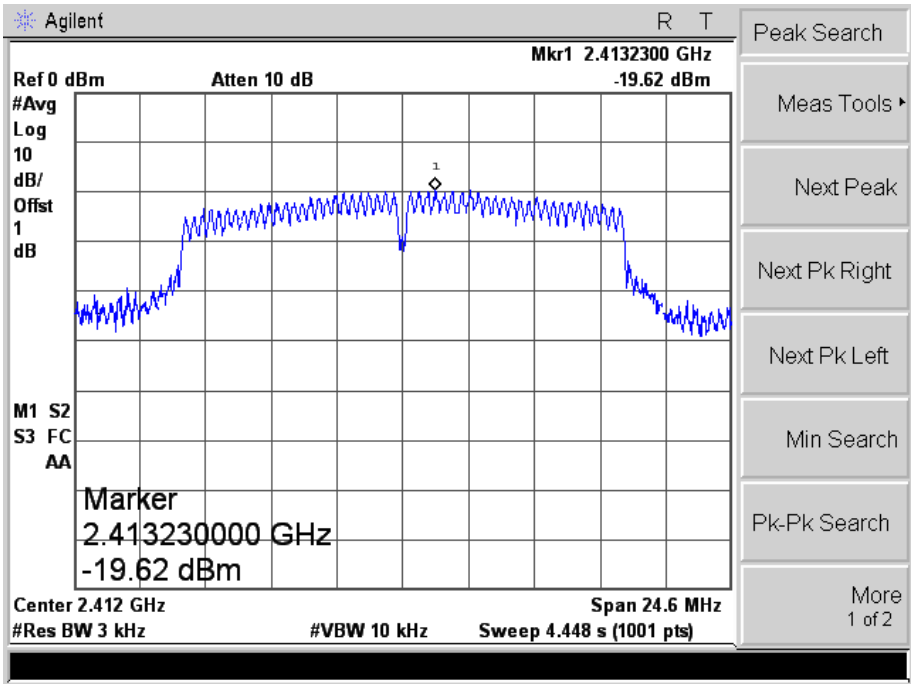
802.11b-Middle Channel



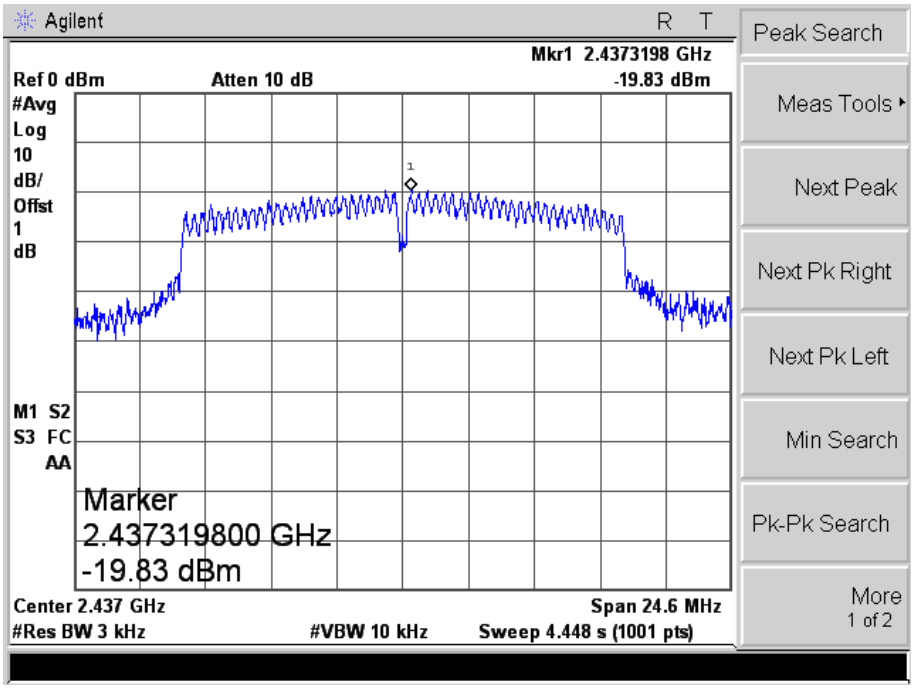
802.11b-High Channel



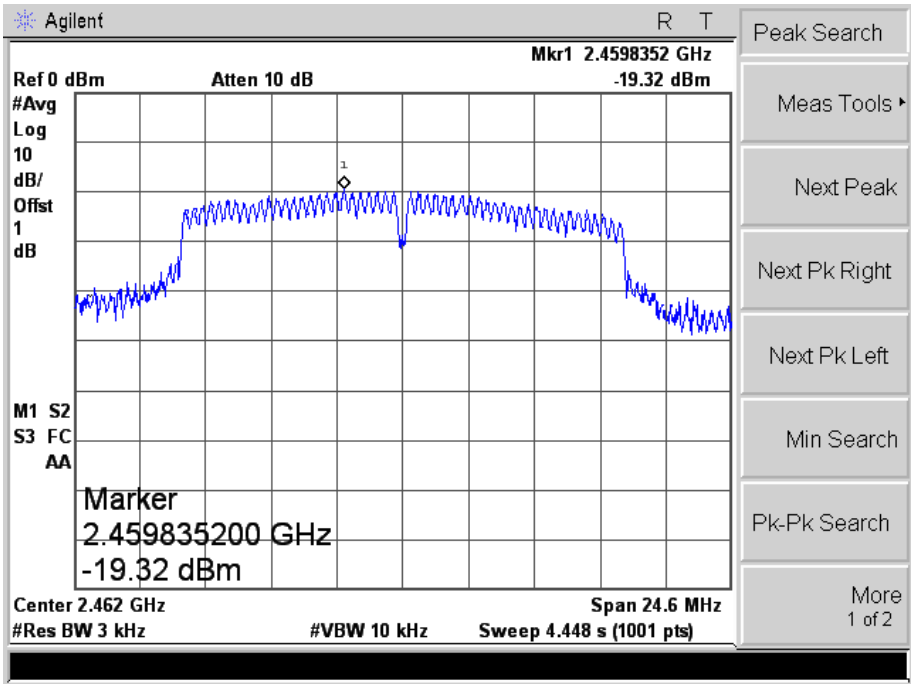
802.11g-Low Channel



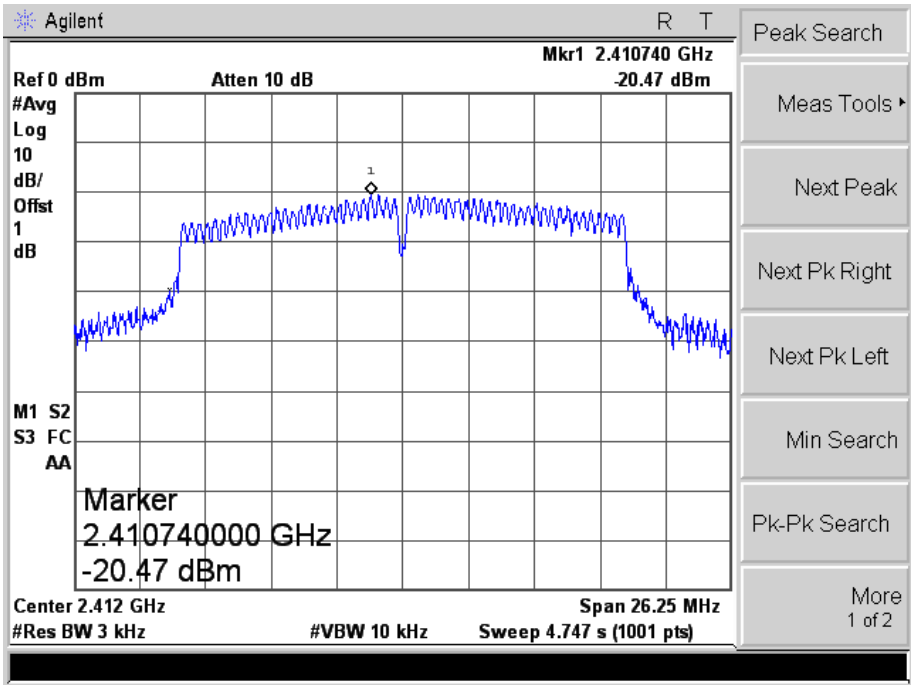
802.11g-Middle Channel



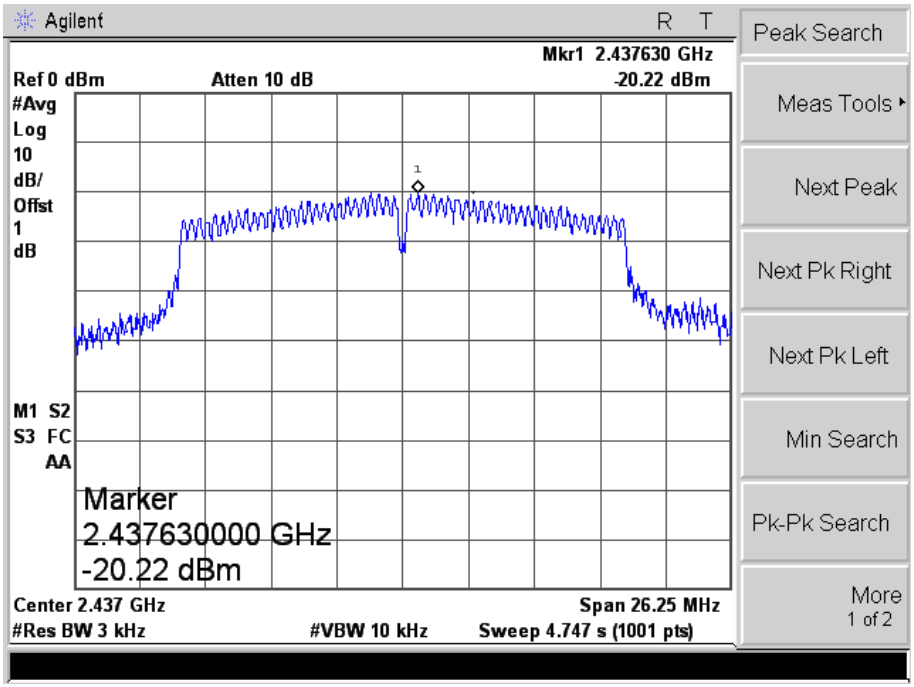
802.11g-High Channel



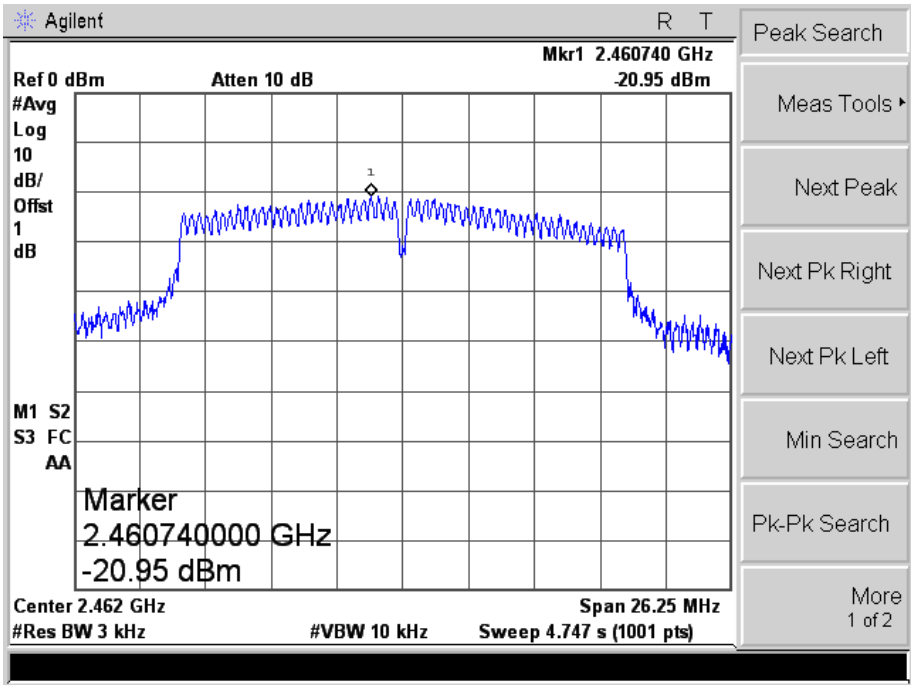
802.11n-HT20-Low Channel



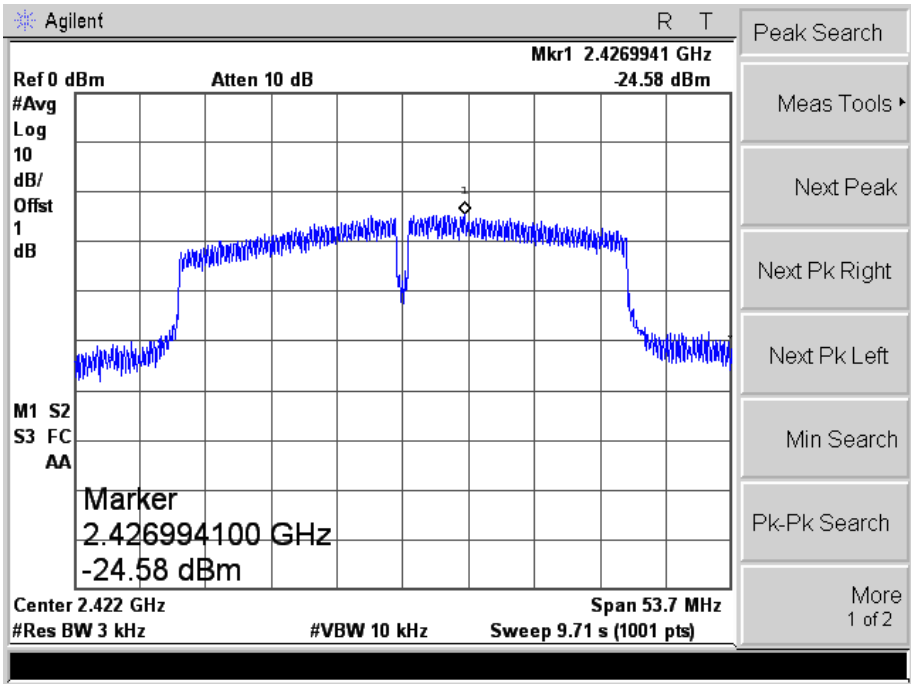
802.11n-HT20-Middle Channel



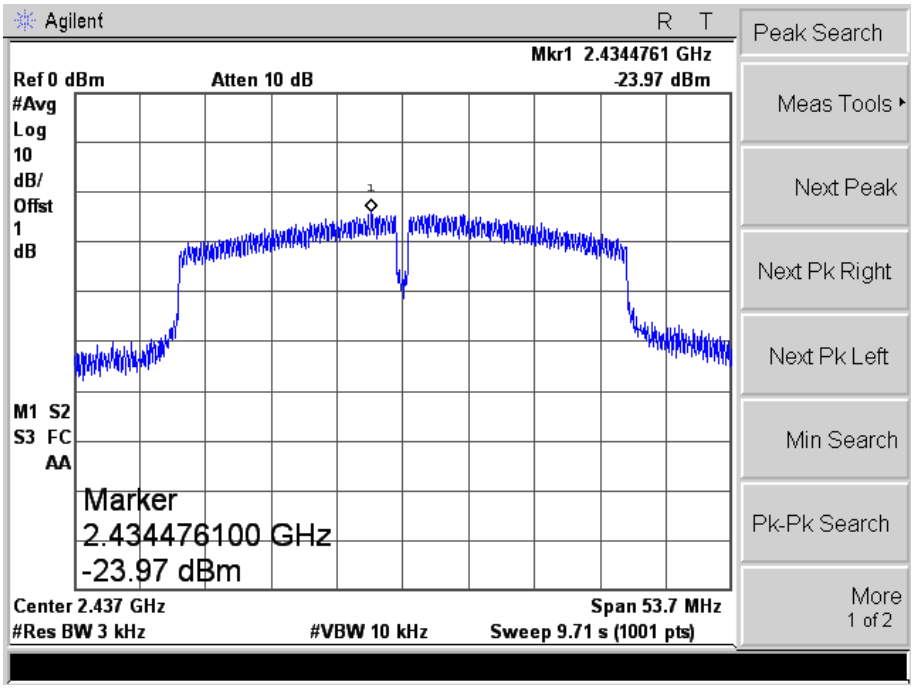
802.11n-HT20-High Channel



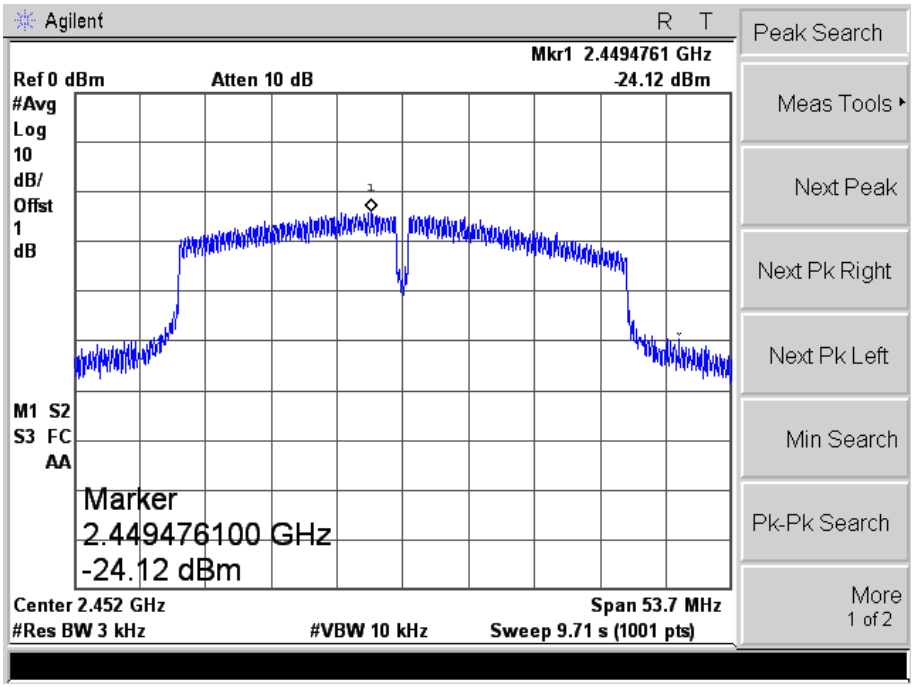
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel

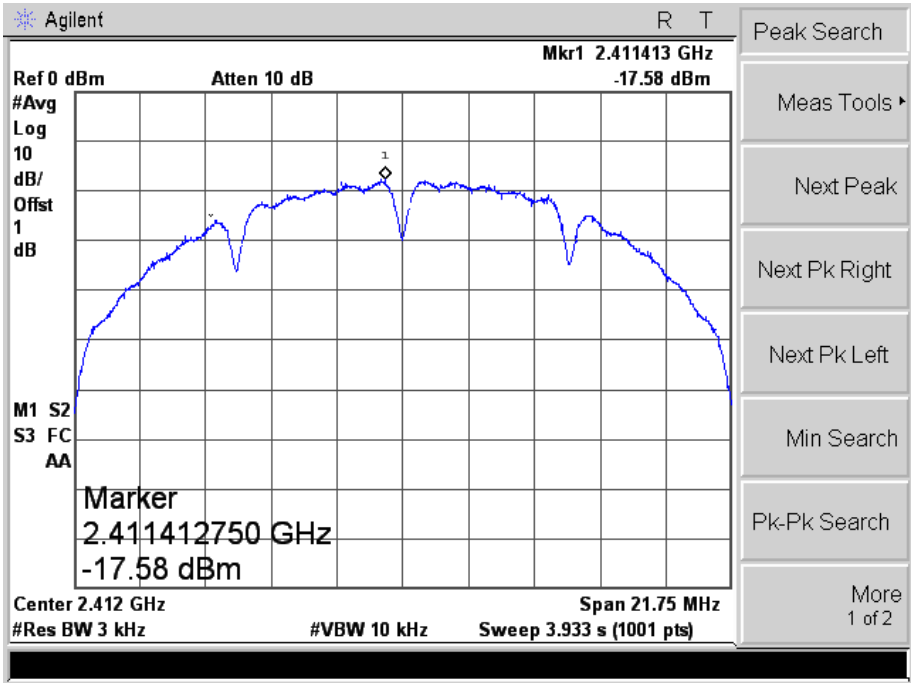


802.11n-HT40-High Channel

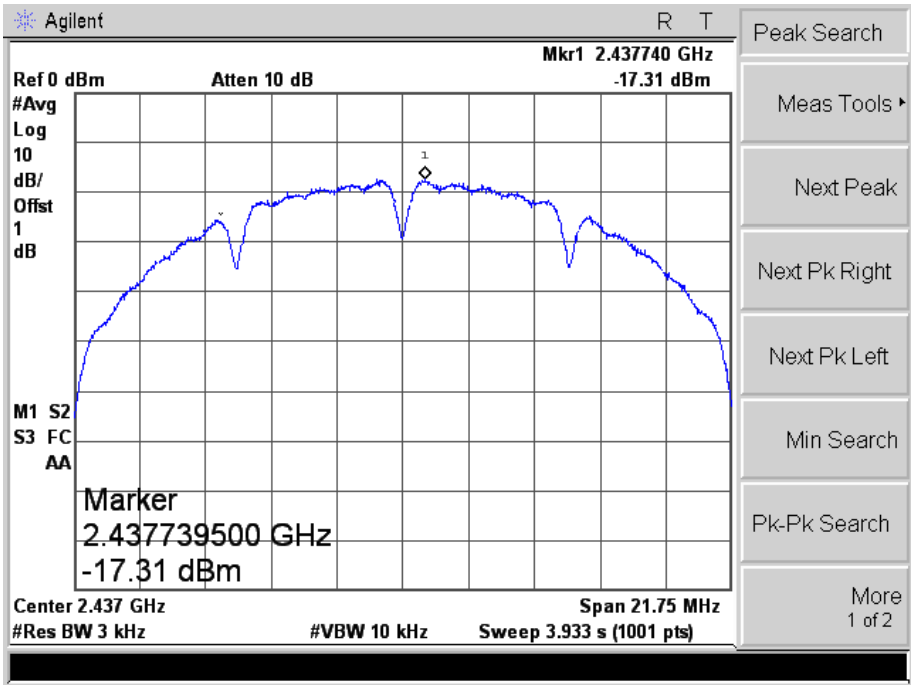


Antenna 2

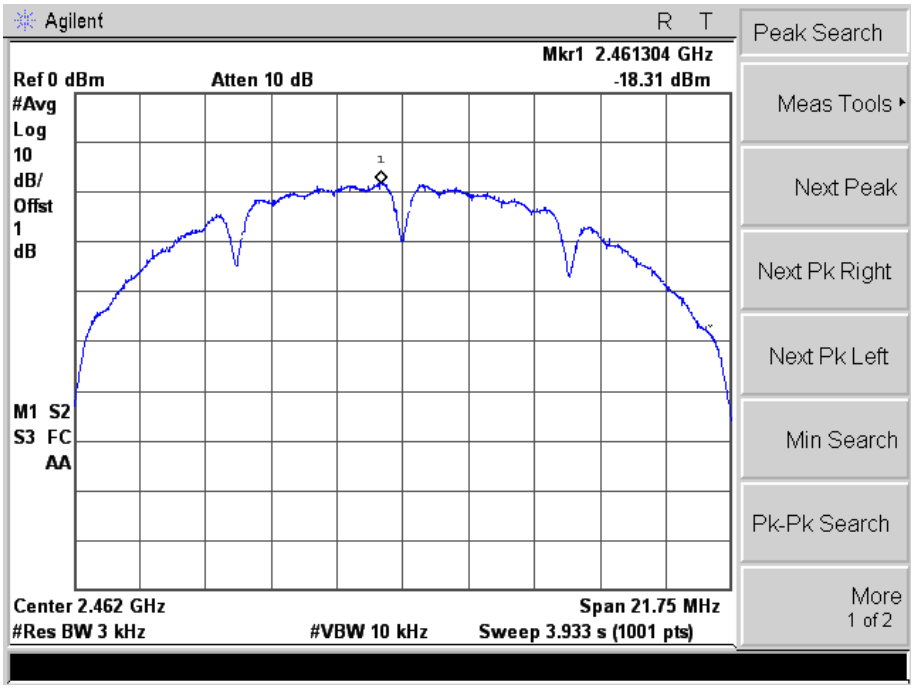
802.11b-Low Channel



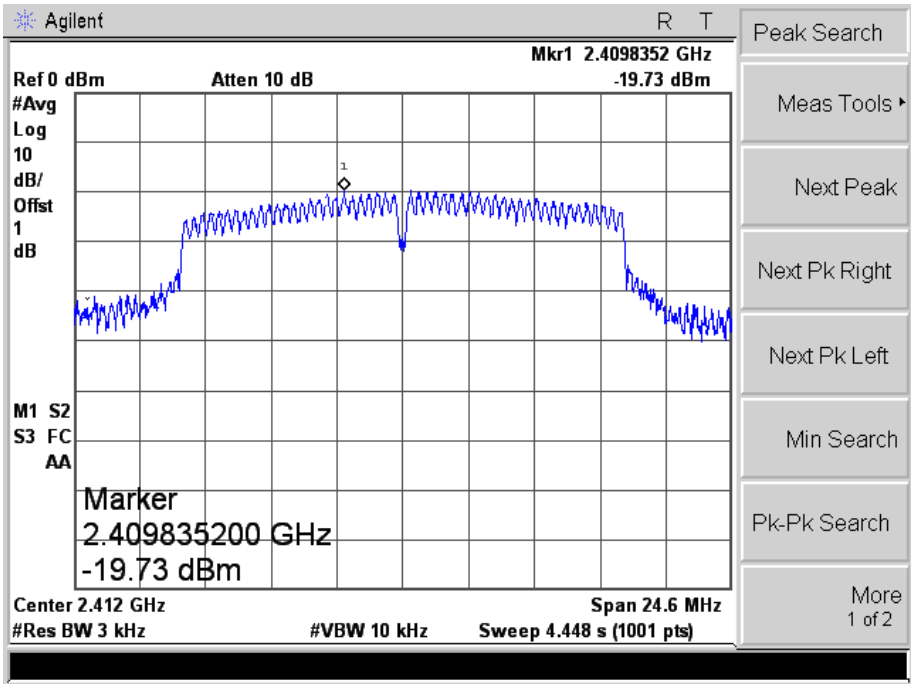
802.11b-Middle Channel



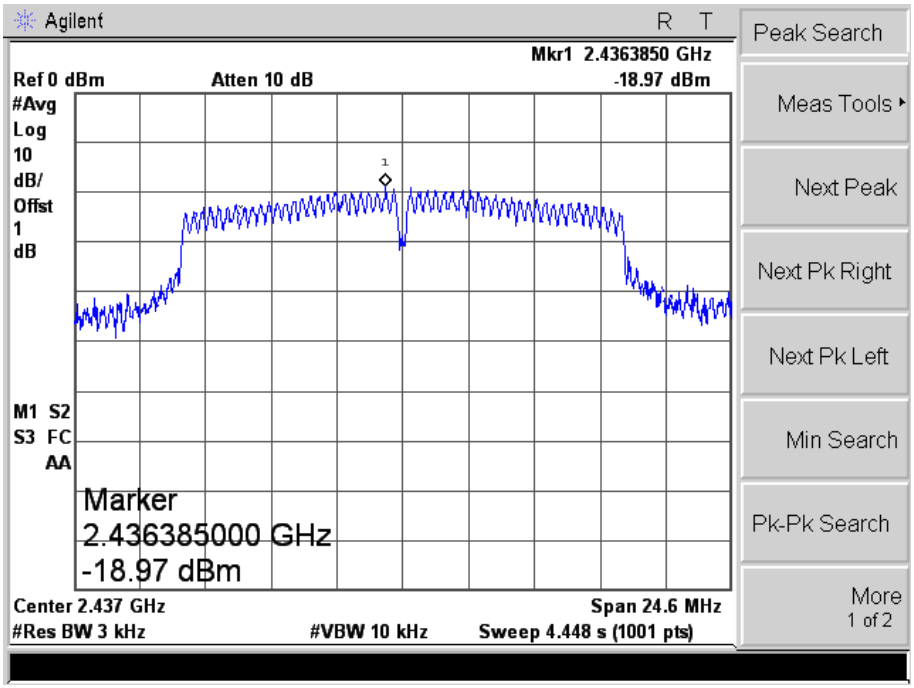
802.11b-High Channel



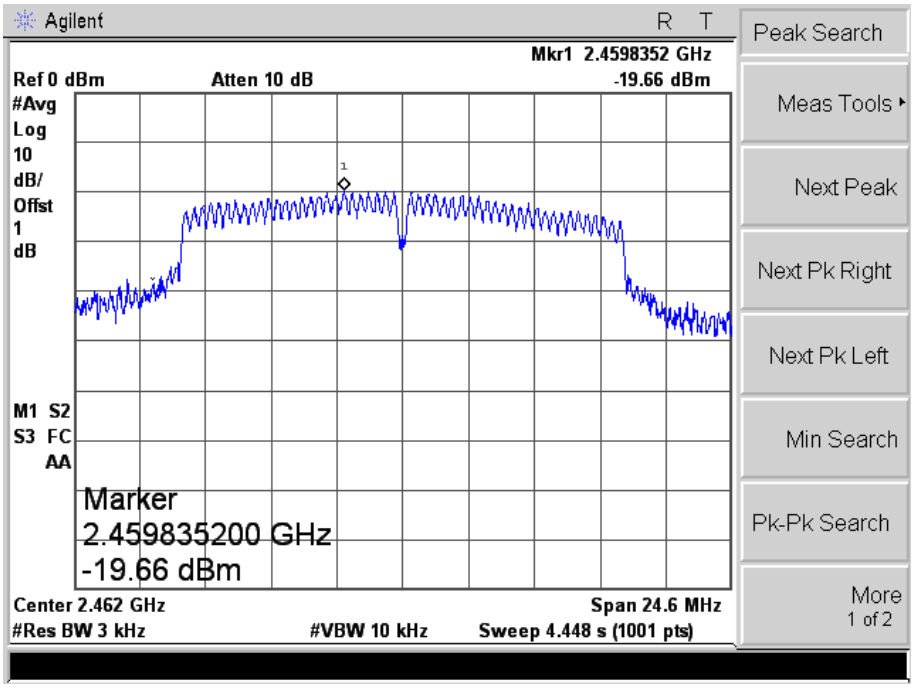
802.11g-Low Channel



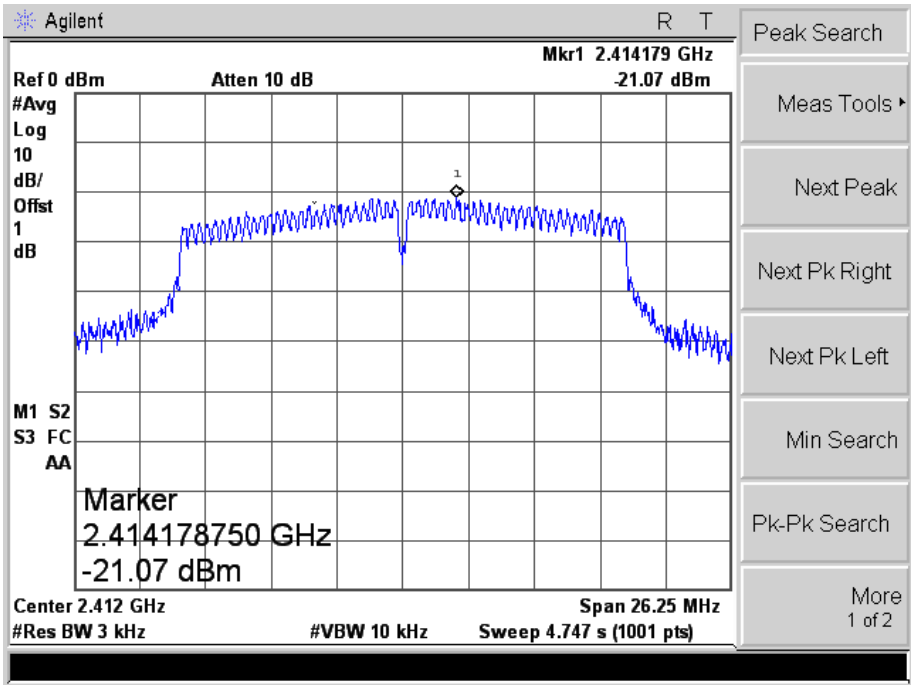
802.11g-Middle Channel



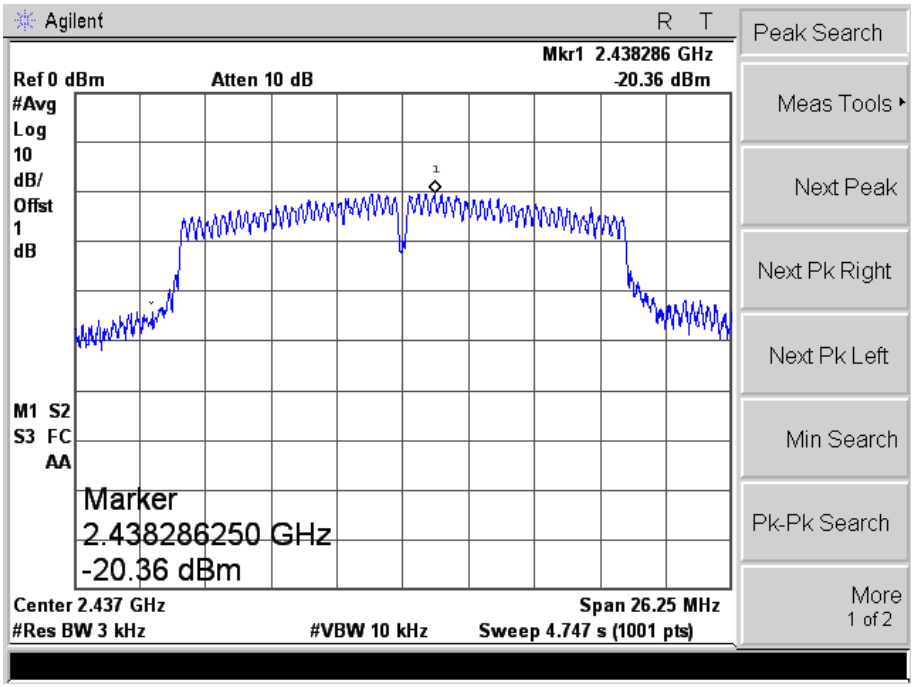
802.11g-High Channel



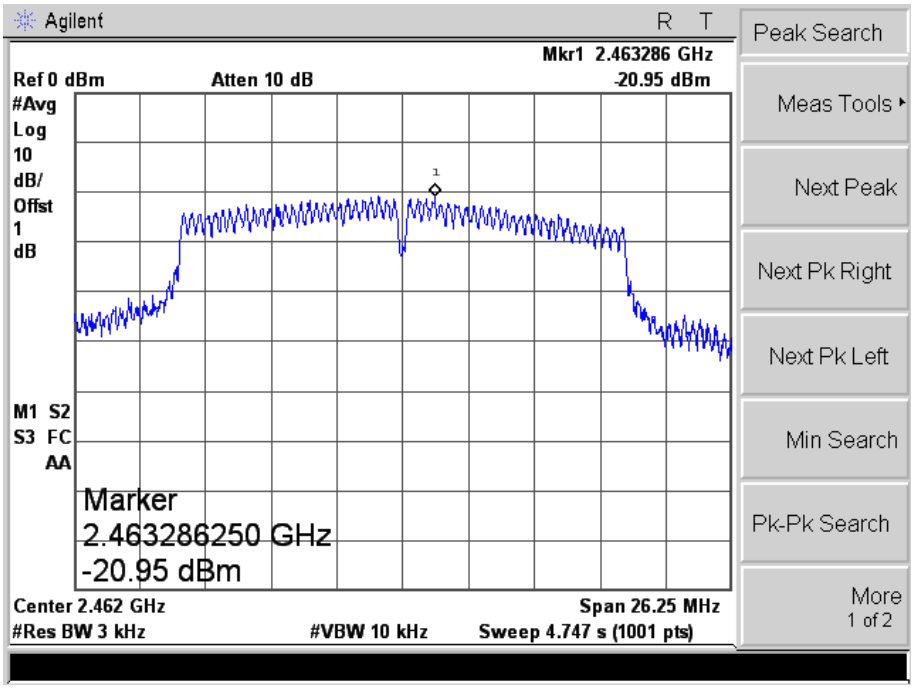
802.11n-HT20-Low Channel



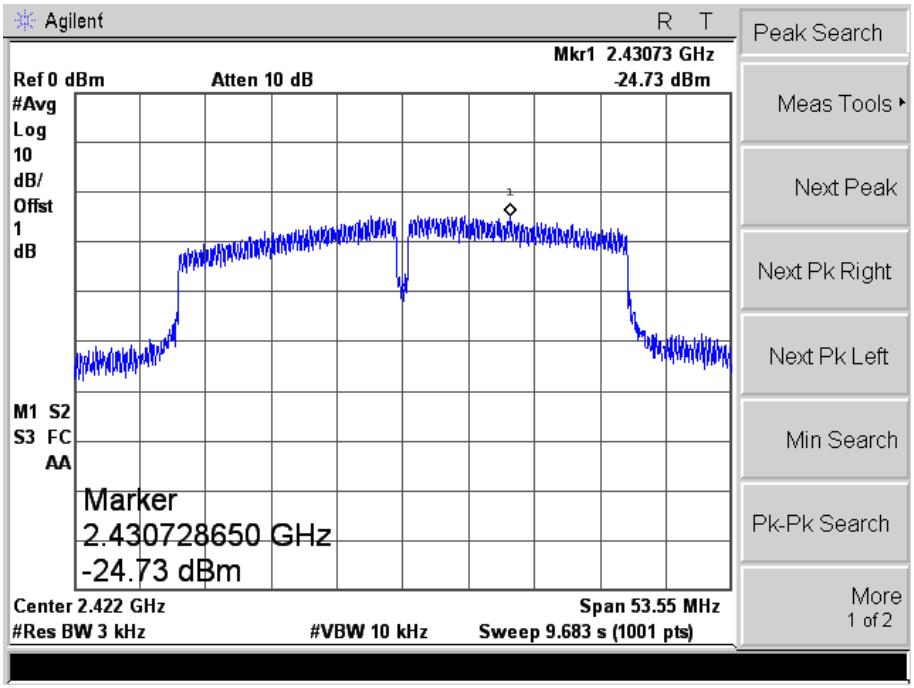
802.11n-HT20-Middle Channel



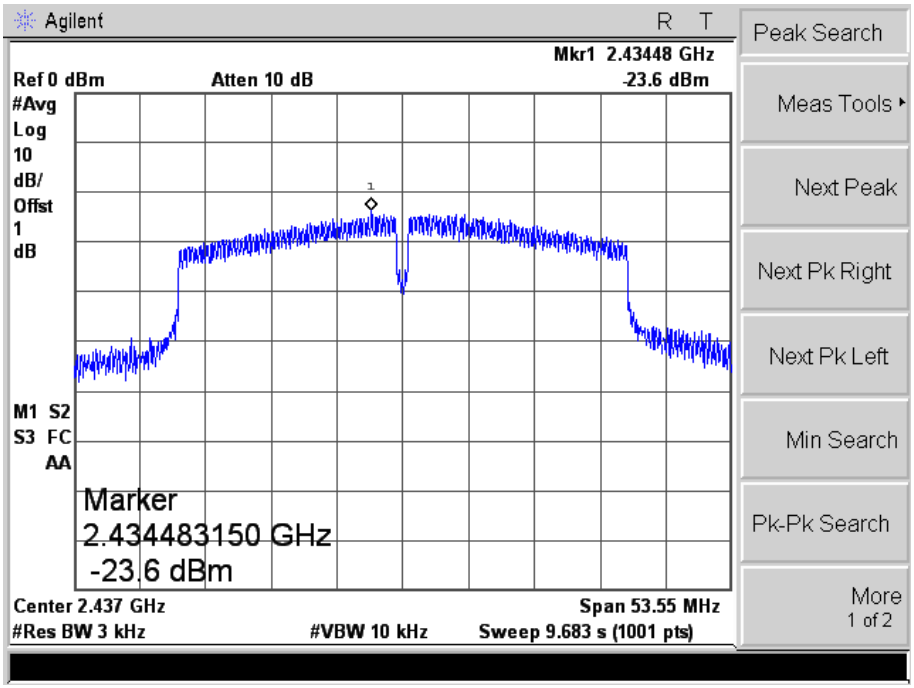
802.11n-HT20-High Channel



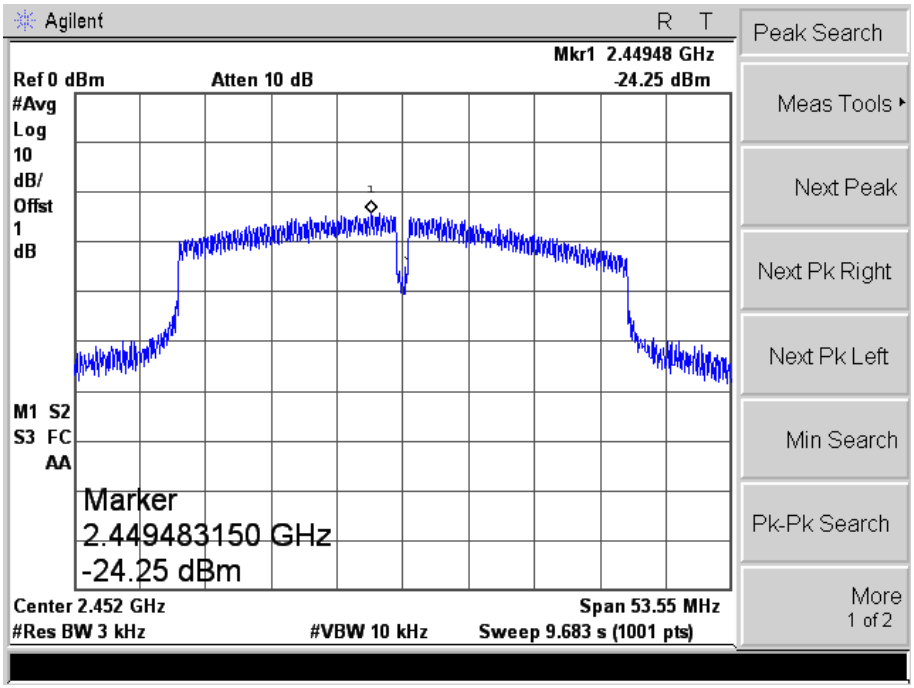
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



6. 6dB Bandwidth

6.1 Standard Applicable

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

6.2 Test Procedure

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 × 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

Antenna 1

Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	10.035	14.4225	≥500
	2437	10.004	14.4250	≥500
	2462	10.039	14.4083	≥500
802.11g	2412	15.067	16.3277	≥500
	2437	15.116	16.3489	≥500
	2462	15.069	16.3263	≥500
802.11n-HT20	2412	15.146	17.4747	≥500
	2437	15.024	17.4768	≥500
	2462	15.142	17.4602	≥500
802.11n-HT40	2422	31.272	35.7241	≥500
	2437	33.842	35.7704	≥500
	2452	35.133	35.7151	≥500

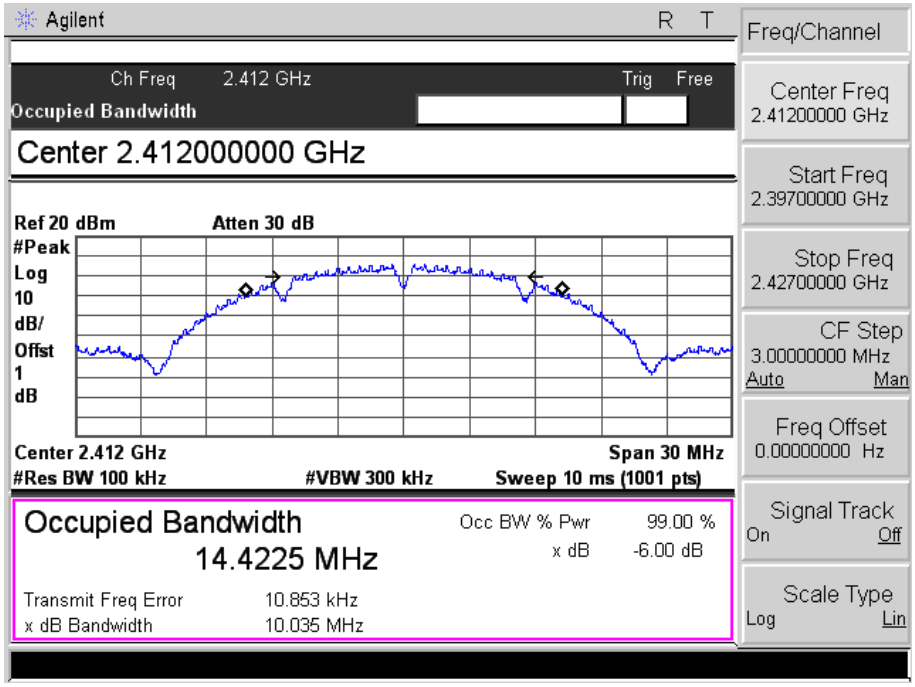
Antenna 2

Test Mode	Test Channel MHz	6 dB Bandwidth MHz	99% Bandwidth MHz	Limit kHz
802.11b	2412	10.039	14.4194	≥500
	2437	10.029	14.4815	≥500
	2462	10.039	14.4058	≥500
802.11g	2412	15.096	16.3337	≥500
	2437	13.187	16.3580	≥500
	2462	15.469	16.3307	≥500
802.11n-HT20	2412	15.126	17.4884	≥500
	2437	15.044	17.4878	≥500
	2462	15.076	17.4871	≥500
802.11n-HT40	2422	35.097	35.6470	≥500
	2437	35.088	35.6917	≥500
	2452	35.119	35.6964	≥500

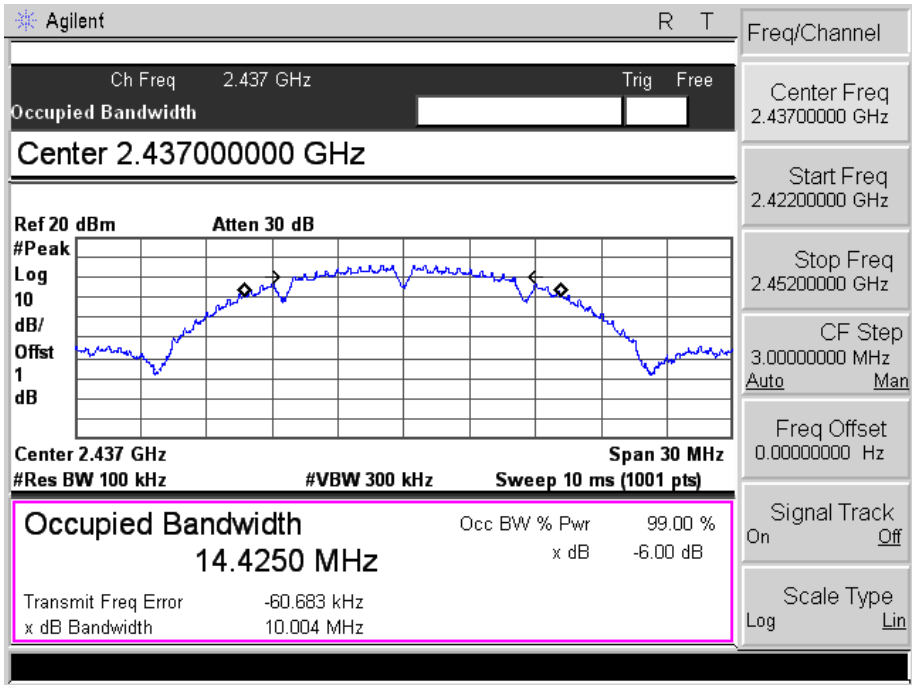
Please refer to the following test plots:

Antenna 1

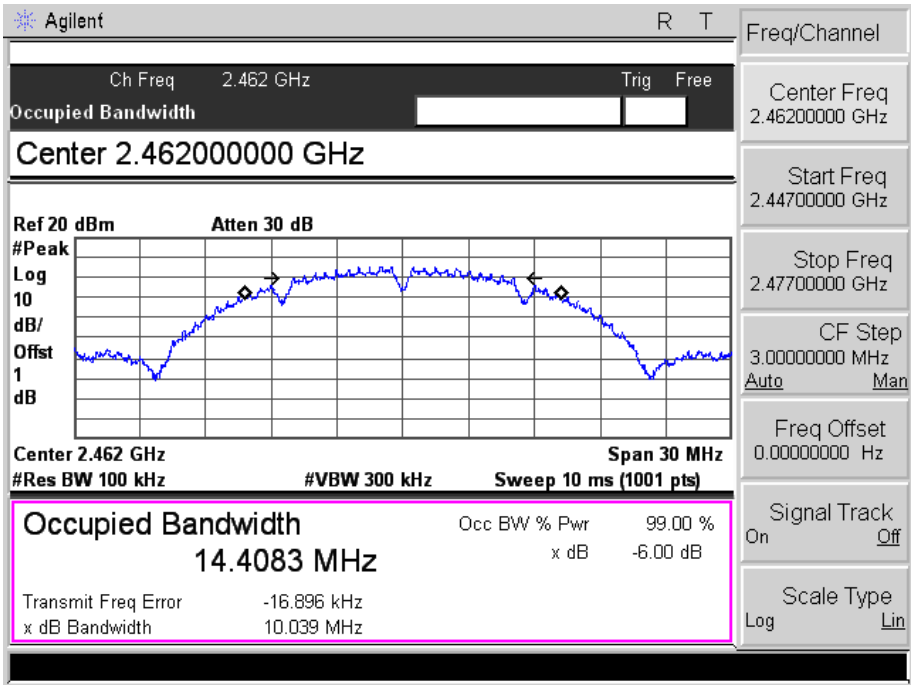
802.11b-Low Channel



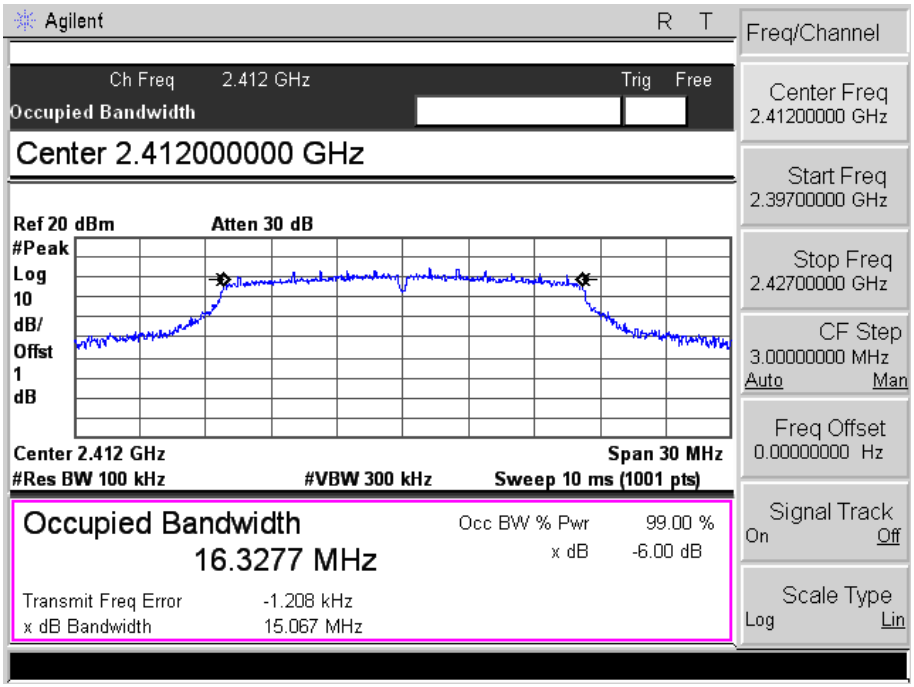
802.11b-Middle Channel



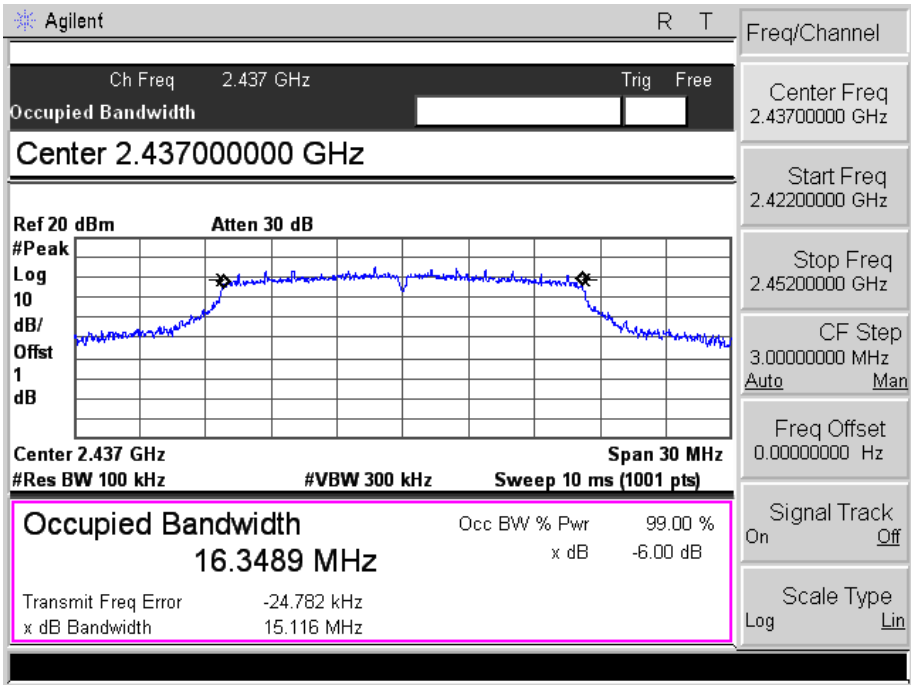
802.11b-High Channel



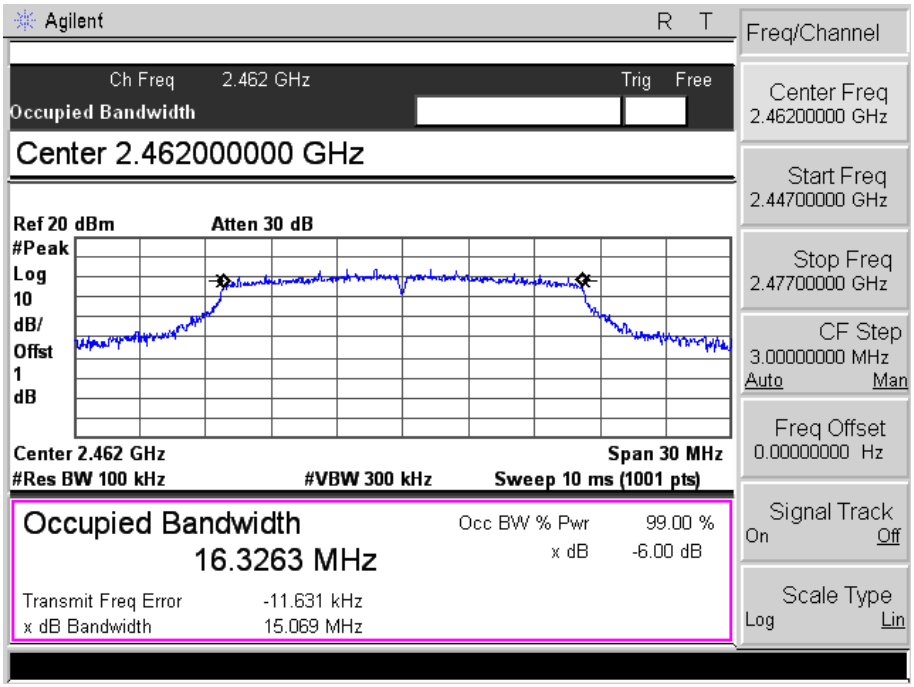
802.11g-Low Channel



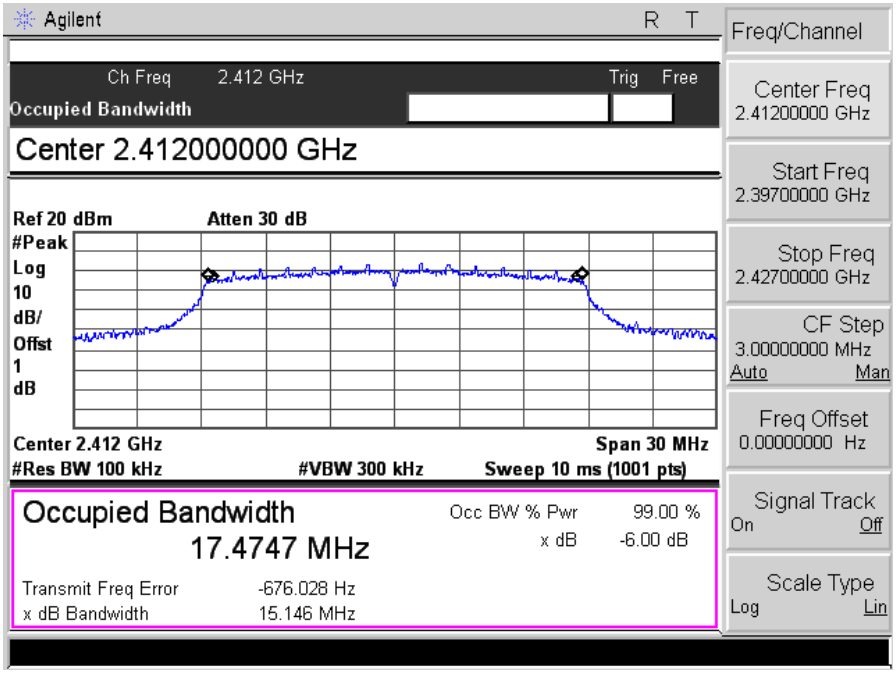
802.11g-Middle Channel



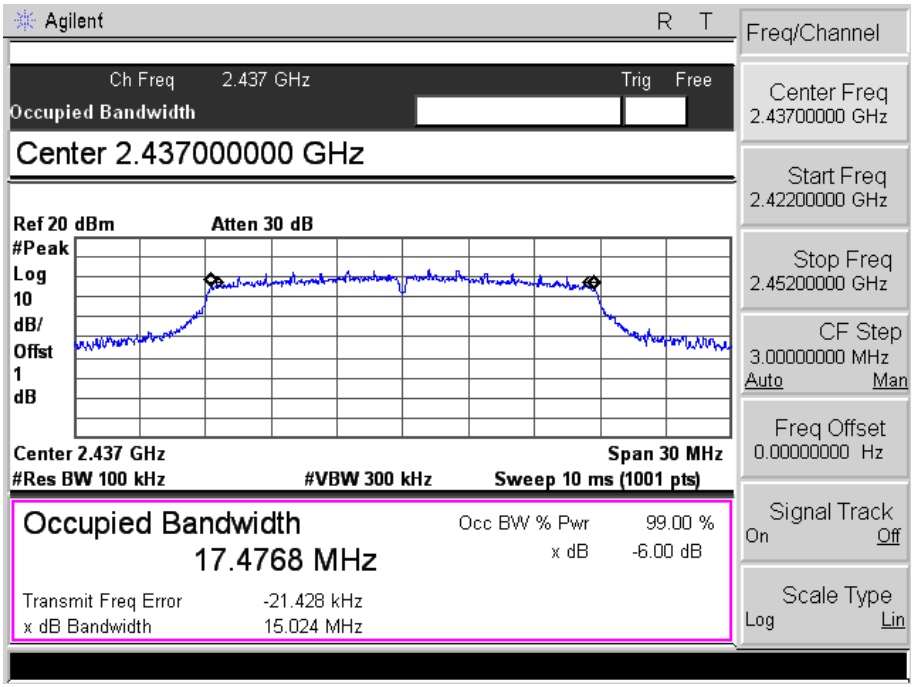
802.11g-High Channel



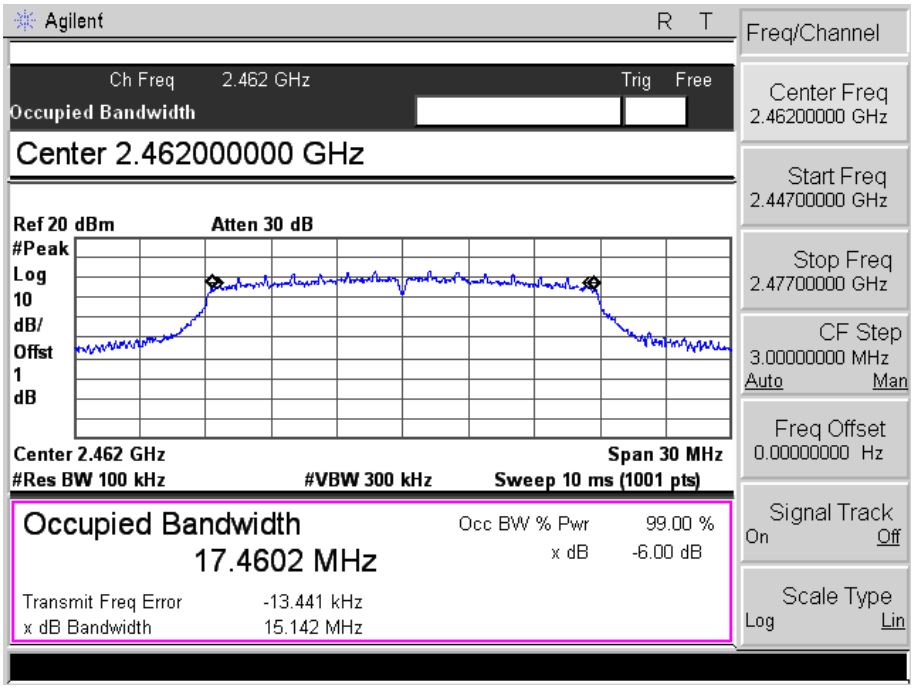
802.11n-HT20-Low Channel



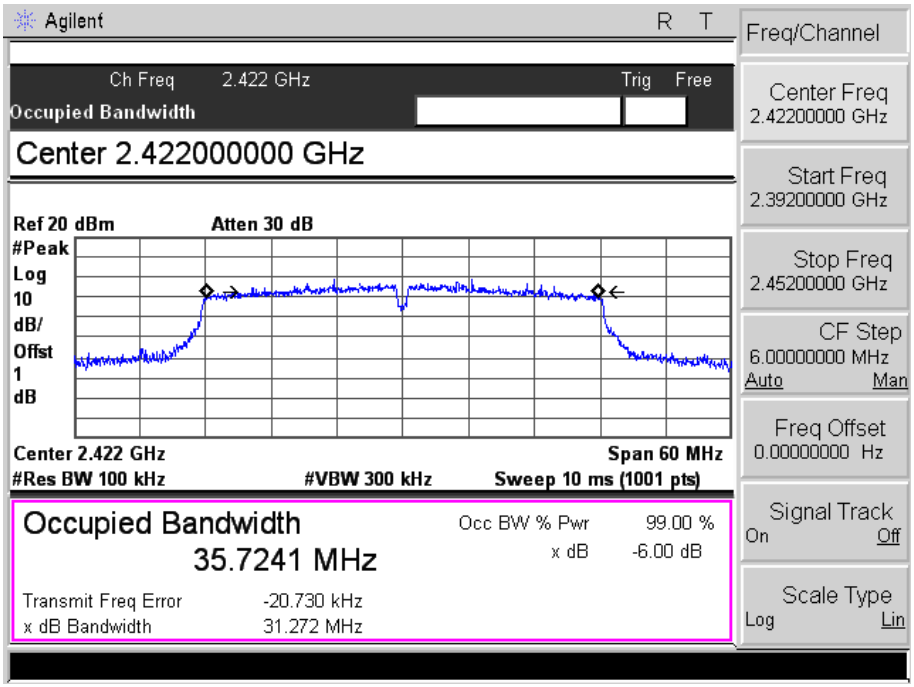
802.11n-HT20-Middle Channel



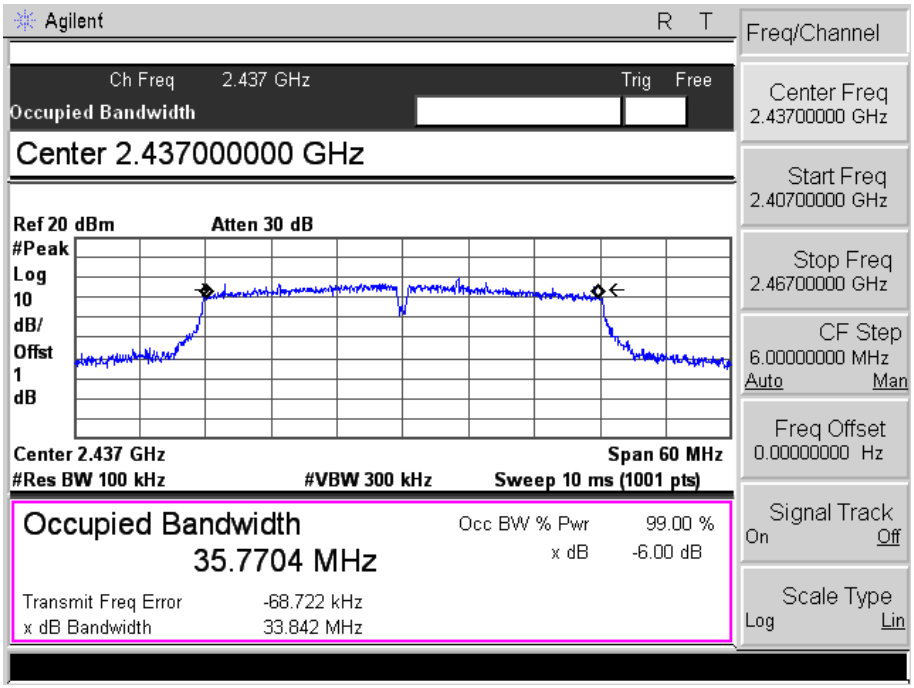
802.11n-HT20-High Channel



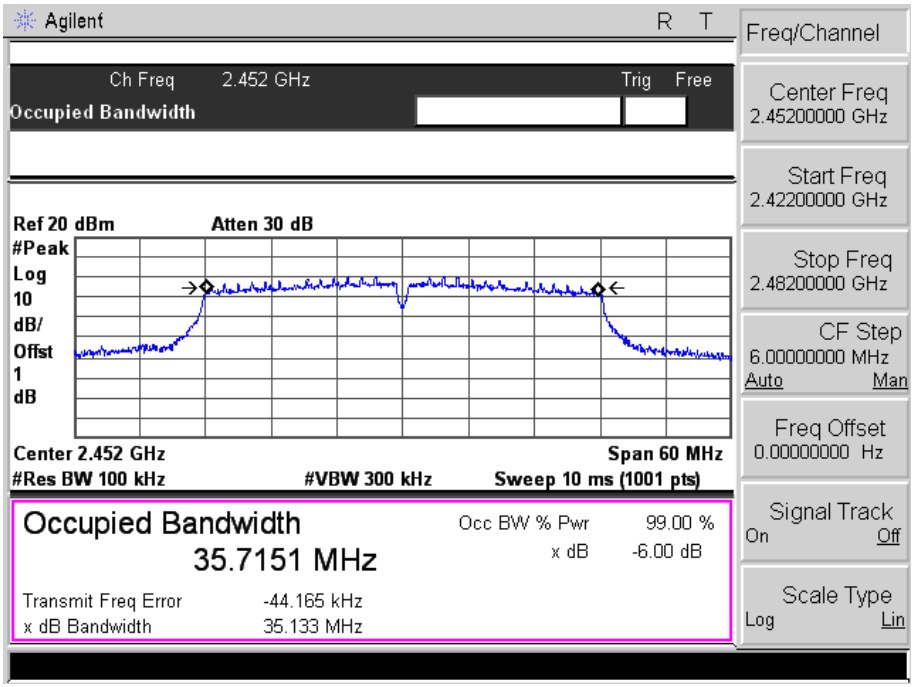
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel

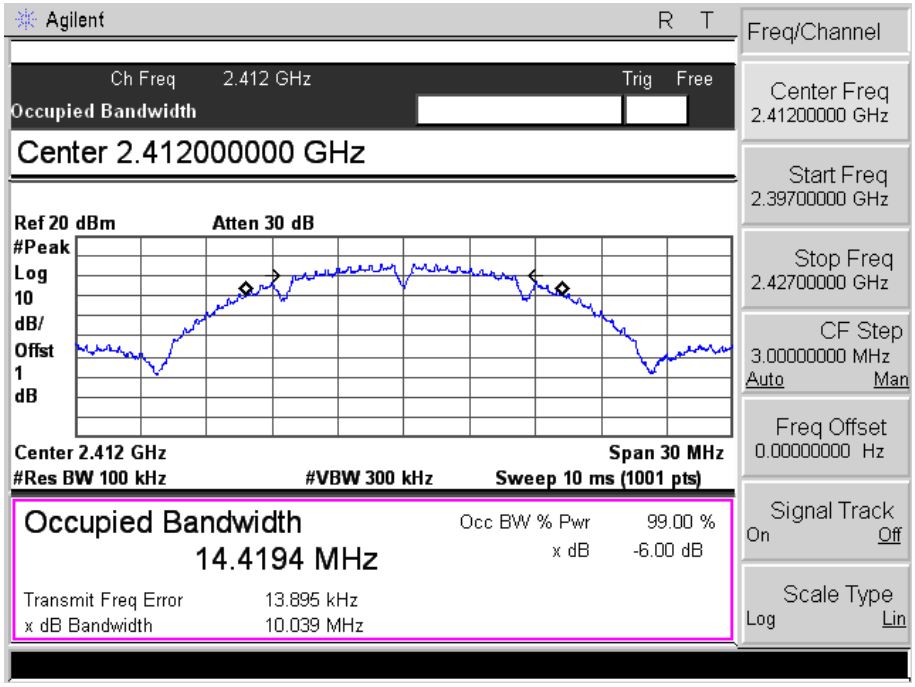


802.11n-HT40-High Channel

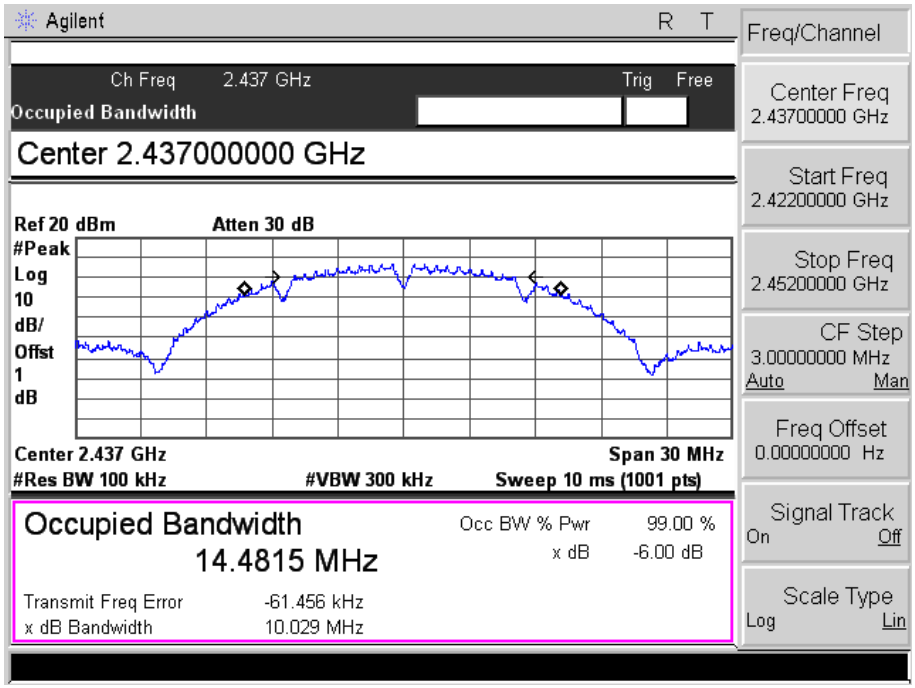


Antenna 2

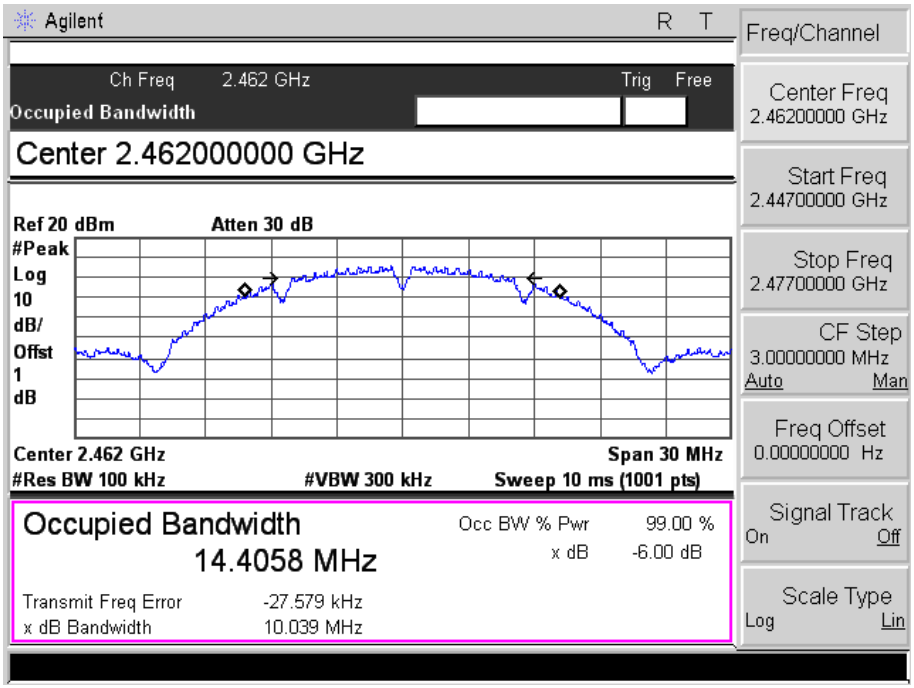
802.11b-Low Channel



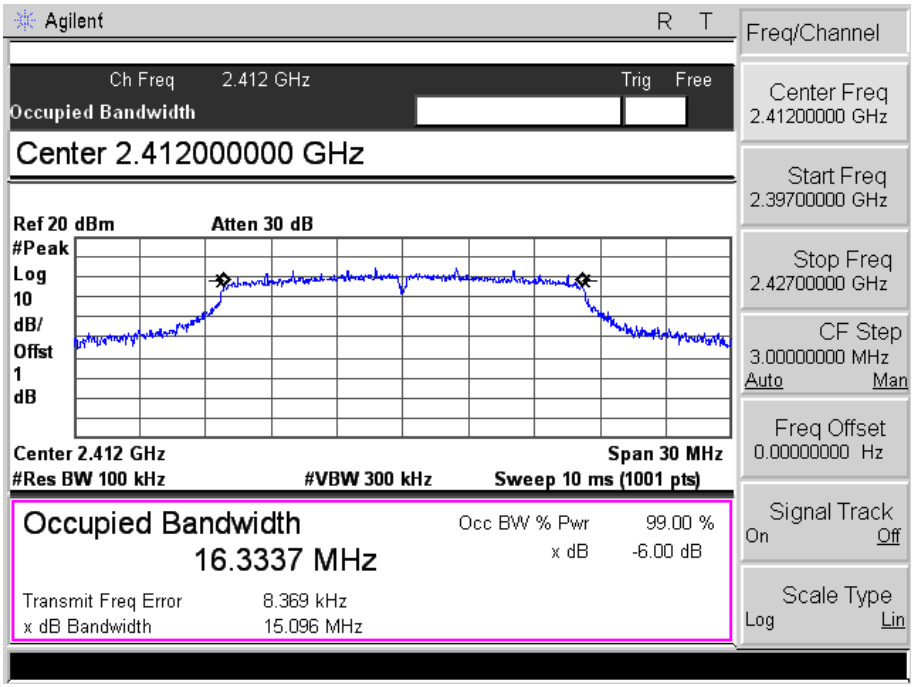
802.11b-Middle Channel



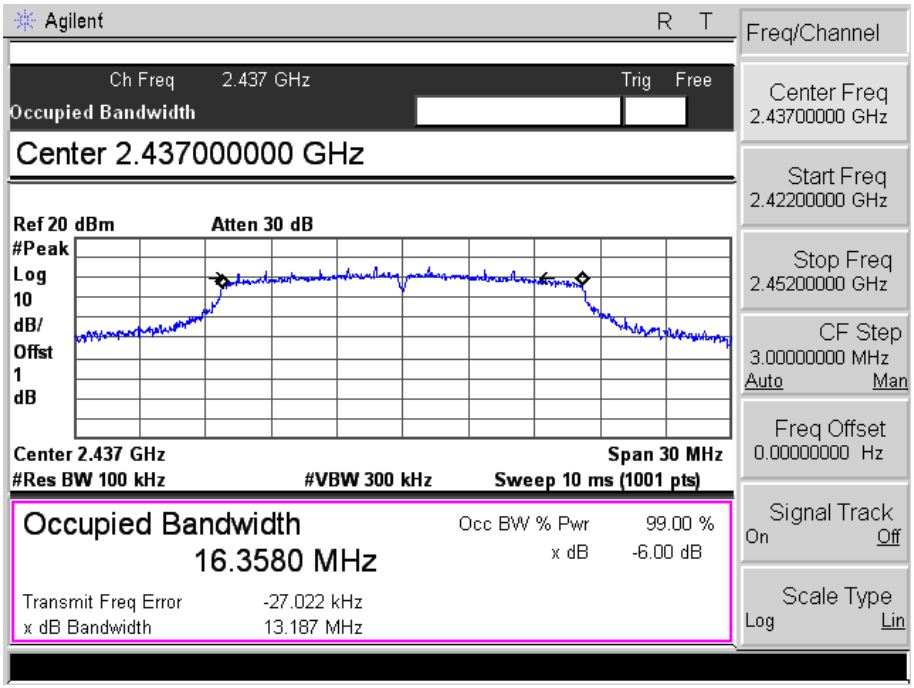
802.11b-High Channel



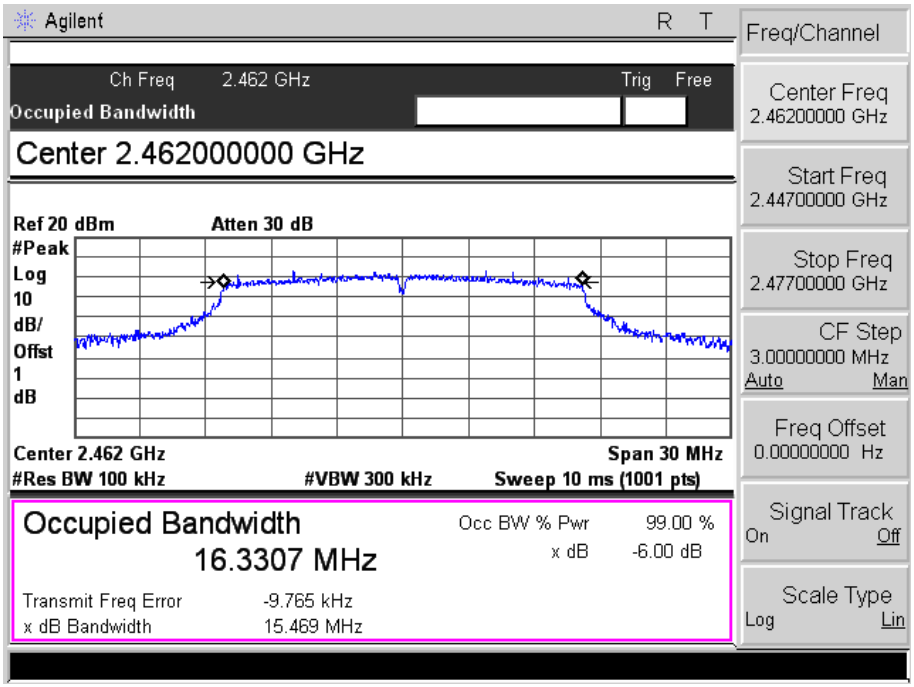
802.11g-Low Channel



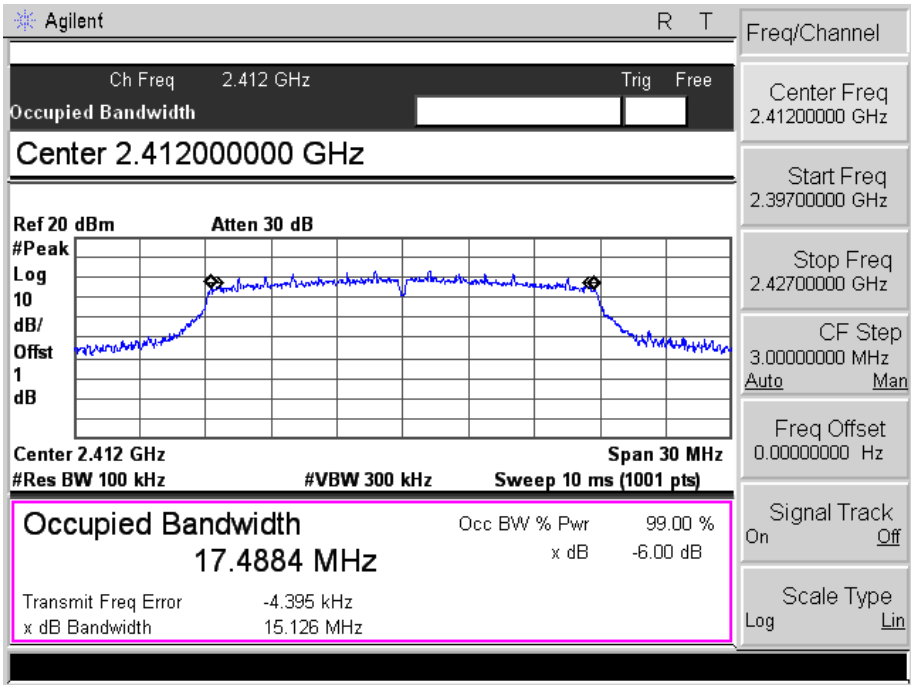
802.11g-Middle Channel



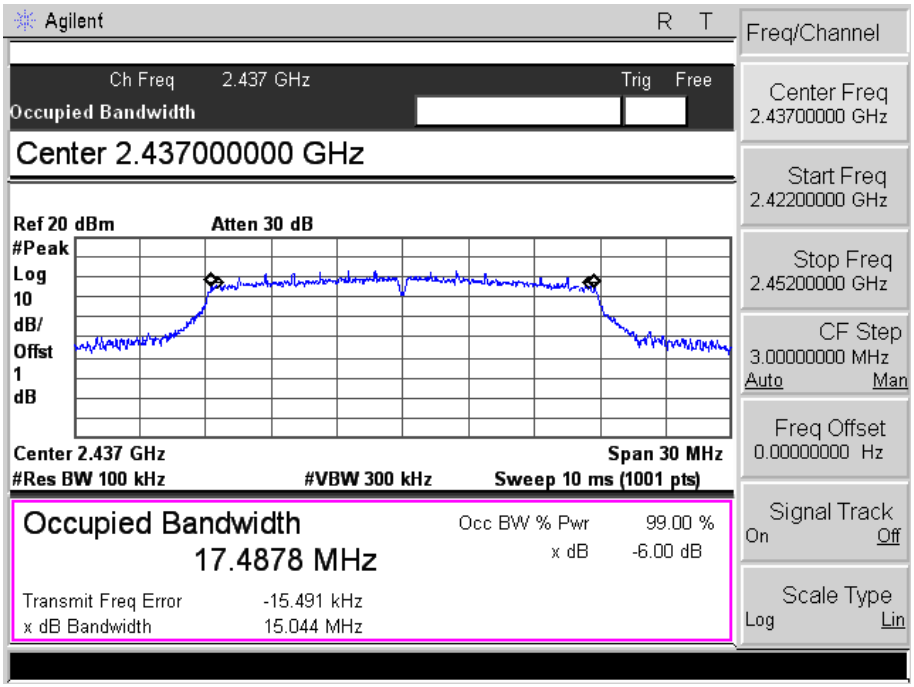
802.11g-High Channel



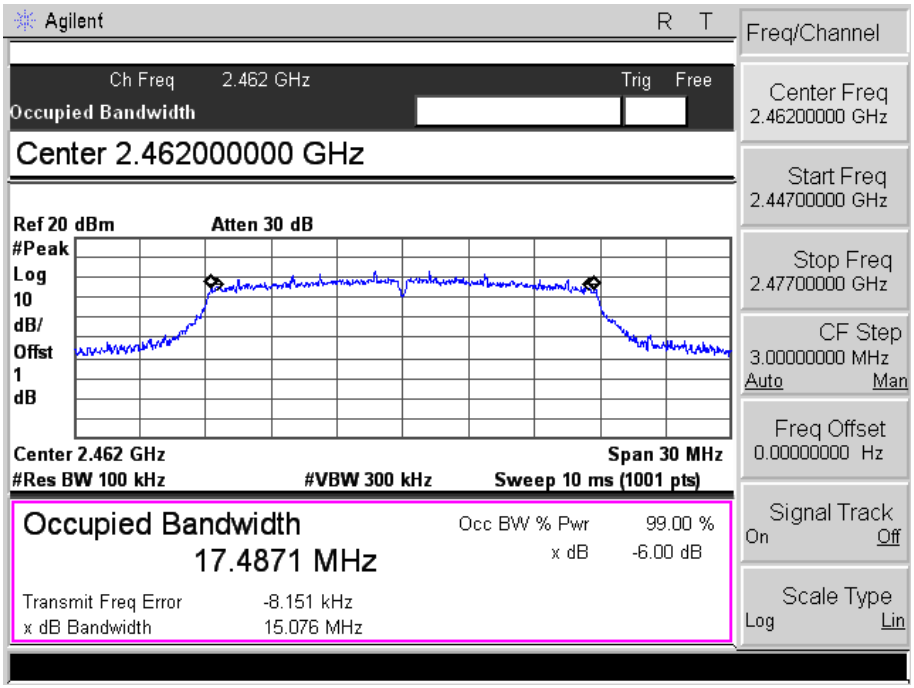
802.11n-HT20-Low Channel



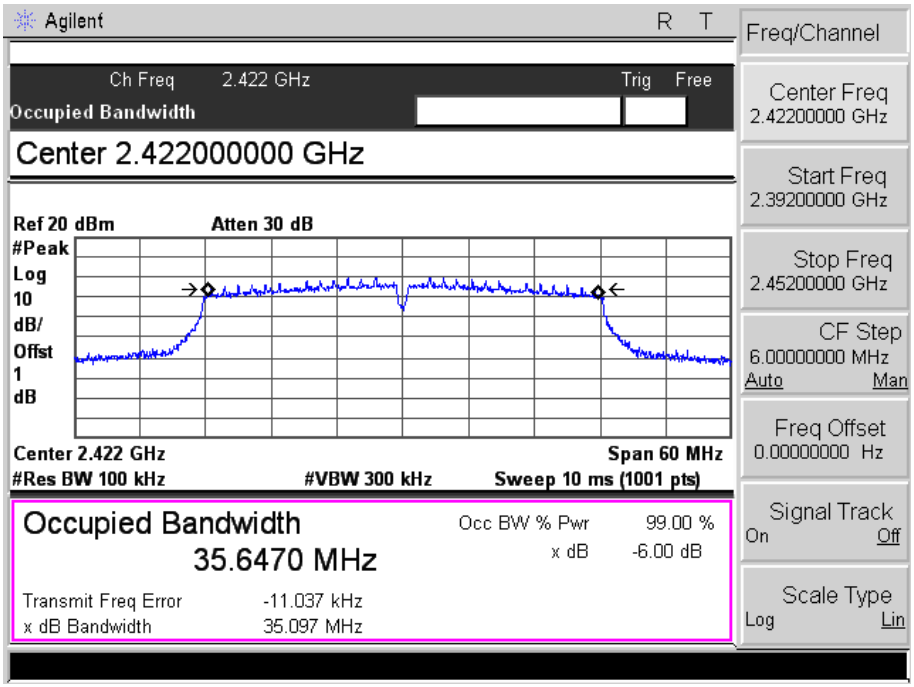
802.11n-HT20-Middle Channel



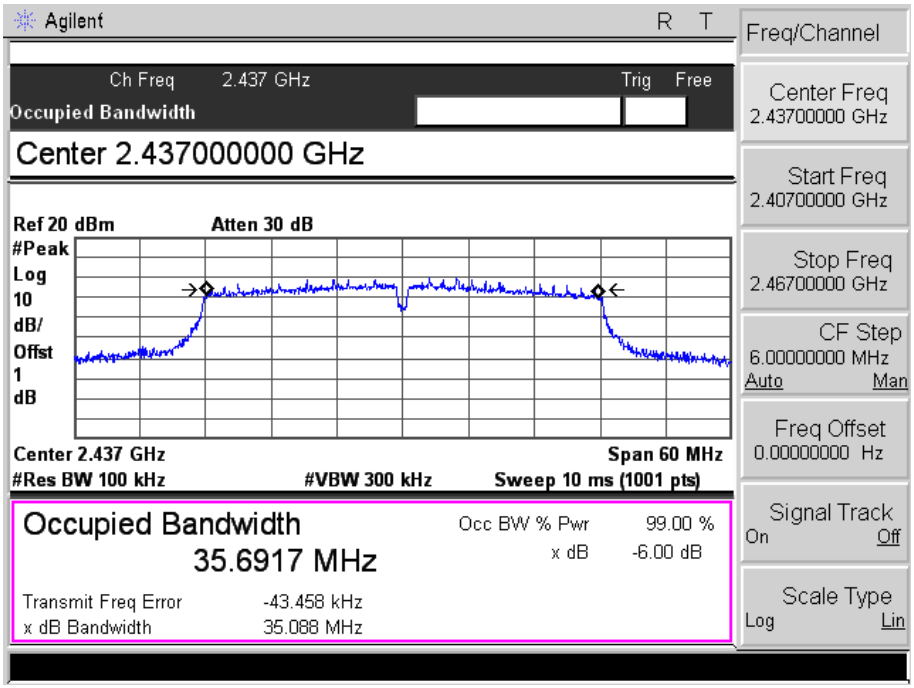
802.11n-HT20-High Channel



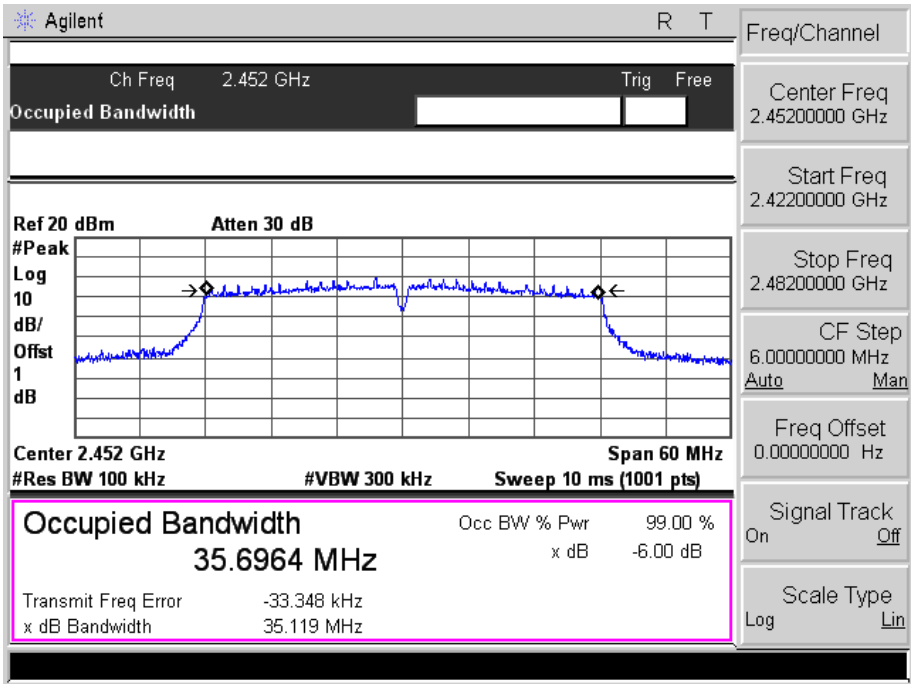
802.11n-HT40-Low Channel



802.11n-HT40-Middle Channel



802.11n-HT40-High Channel



7. RF Output Power

7.1 Standard Applicable

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

7.2 Test Procedure

According to KDB-558074 D01 V04, (channel integration method) When this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

a) Set span to at least 1.5 times the OBW.
b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
c) Set VBW ≥ 3 x RBW.
d) Number of points in sweep ≥ 2 × span / RBW. (This gives bin-to-bin spacing ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
e) Sweep time = auto.
f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

7.3 Environmental Conditions

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

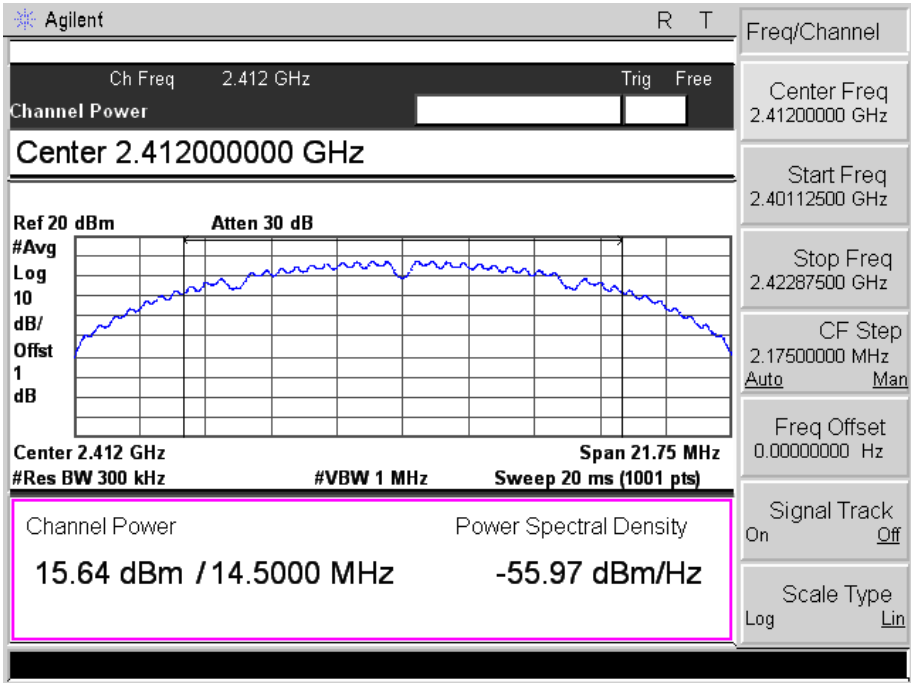
7.4 Summary of Test Results/Plots

Test Mode	Frequency MHz	Power 1 dBm	Power 2 dBm	Power 1 mW	Power 2 mW	Total Power dBm	Output Power mW	Limit mW
802.11b _11Mbps	2412	15.64	15.02	36.64	31.77	/	/	1000
	2437	15.89	15.95	38.82	39.36	/	/	1000
	2462	15.81	15.42	38.11	34.83	/	/	1000
802.11g _54Mbps	2412	13.64	13.79	23.12	23.93	/	/	1000
	2437	13.80	13.15	23.99	20.65	/	/	1000
	2462	13.30	13.63	21.38	23.07	/	/	1000
802.11n HT20_MCS7	2412	12.37	12.67	17.26	18.49	15.53	35.75	1000
	2437	12.45	12.90	17.58	19.50	15.69	37.08	1000
	2462	12.39	12.09	17.34	16.18	15.25	33.52	1000
802.11n HT40_MCS7	2422	11.42	11.03	13.87	12.68	14.24	26.55	1000
	2437	11.54	11.45	14.26	13.96	14.51	28.22	1000
	2452	11.24	11.34	13.30	13.61	14.30	26.91	1000

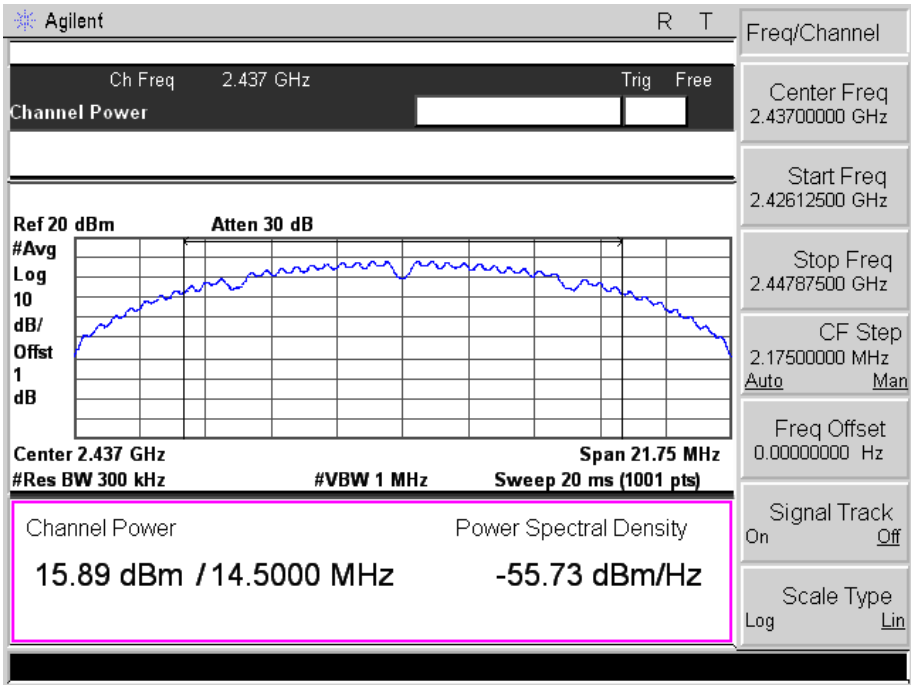
Please refer to the following test plots:

Antenna 1

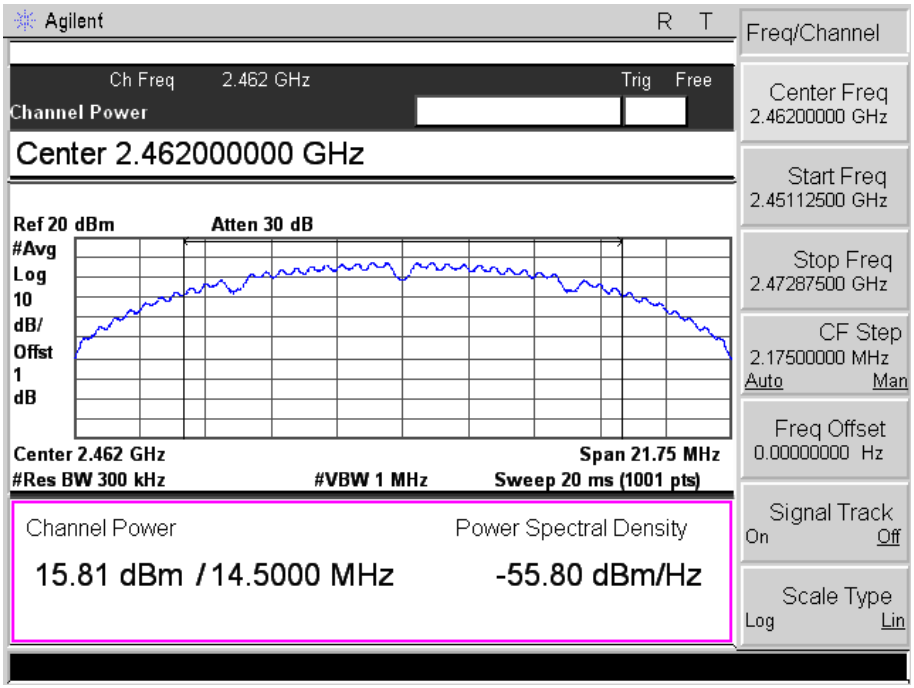
802.11b-11Mbps-Low Channel



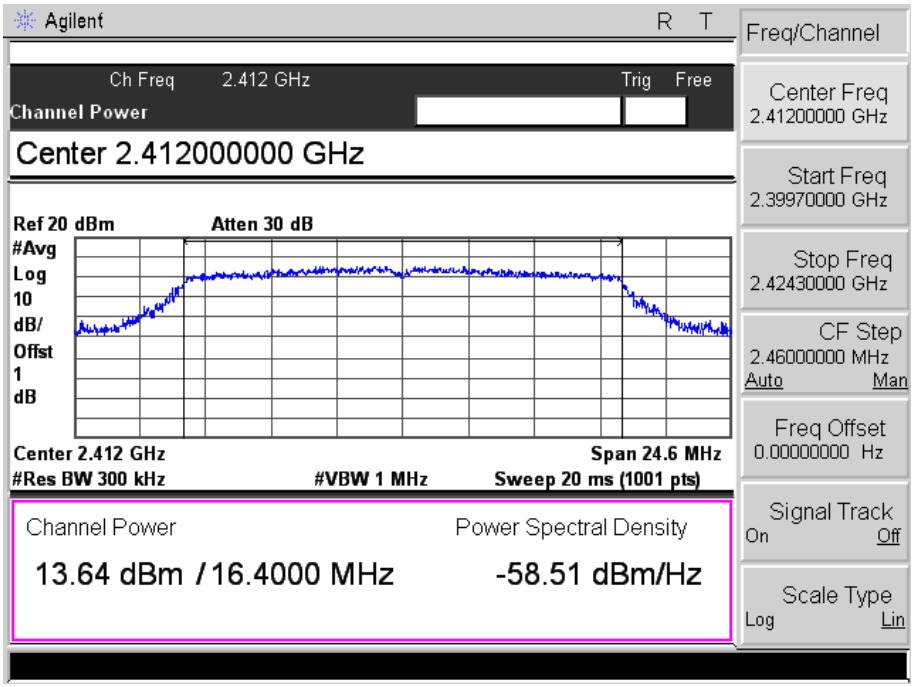
802.11b -11Mbps-Middle Channel



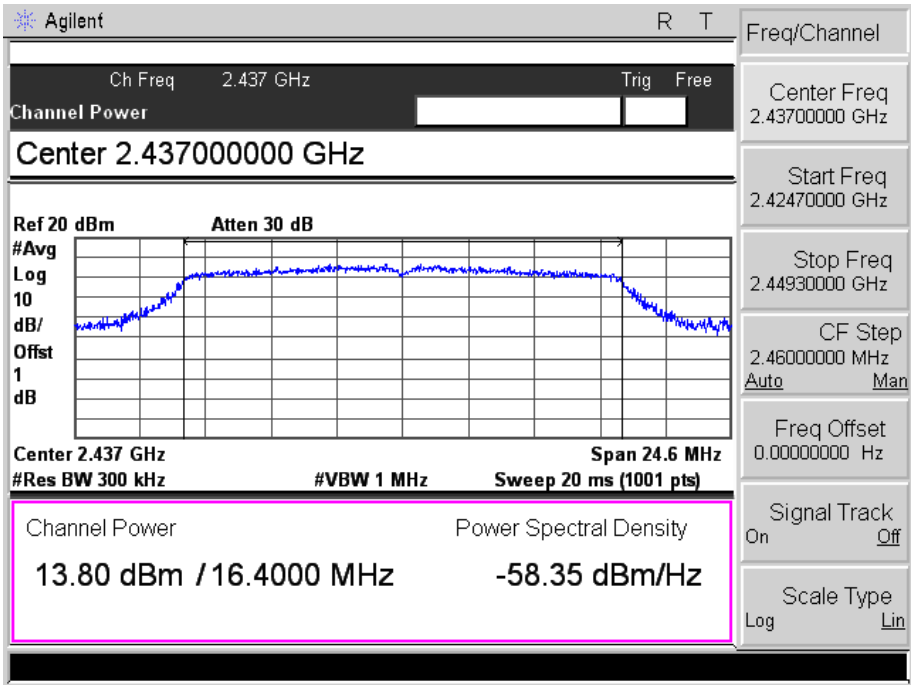
802.11b -11Mpbs-High Channel



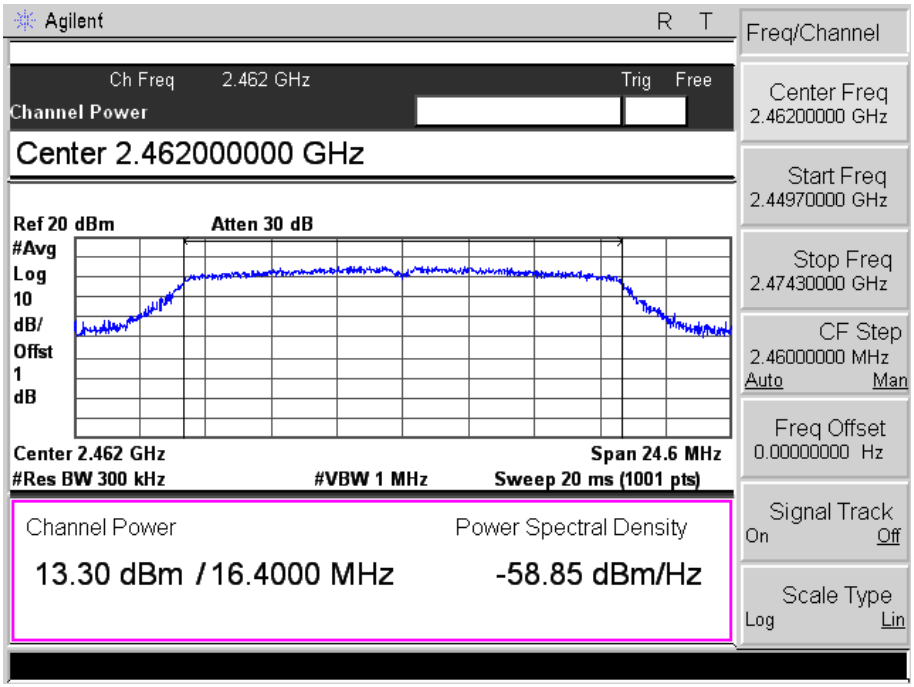
802.11g-54Mbps-Low Channel



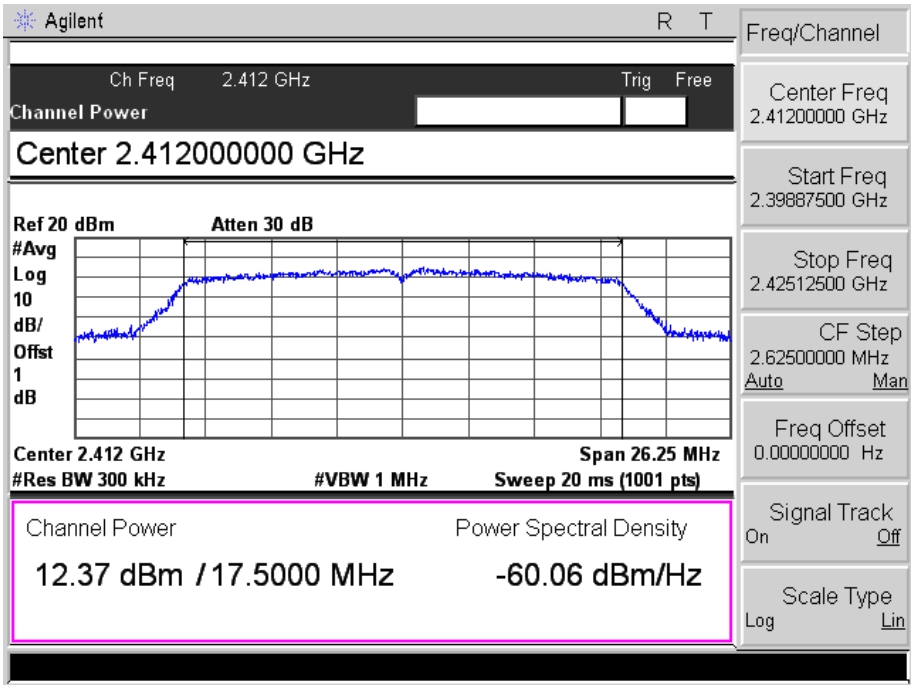
802.11g-54Mbps-Middle Channel



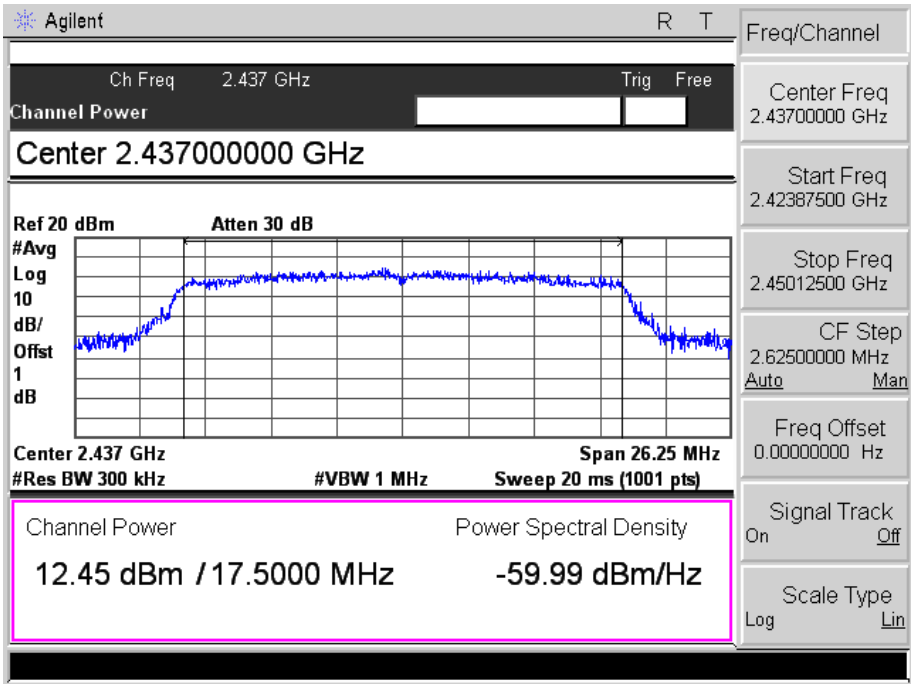
802.11g-54Mpbs-High Channel



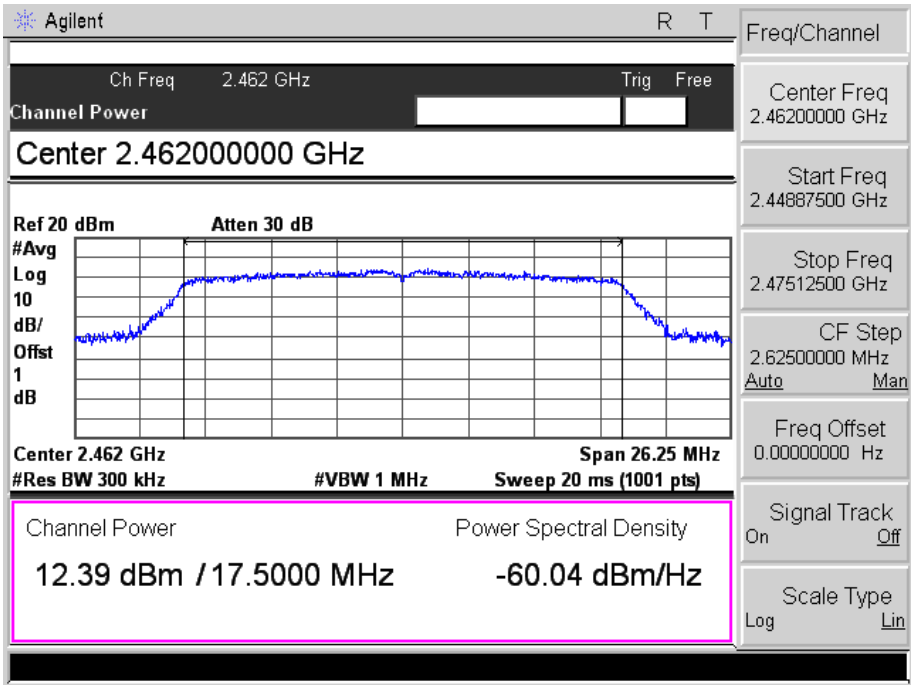
802.11n-HT20-MCS7-Low Channel



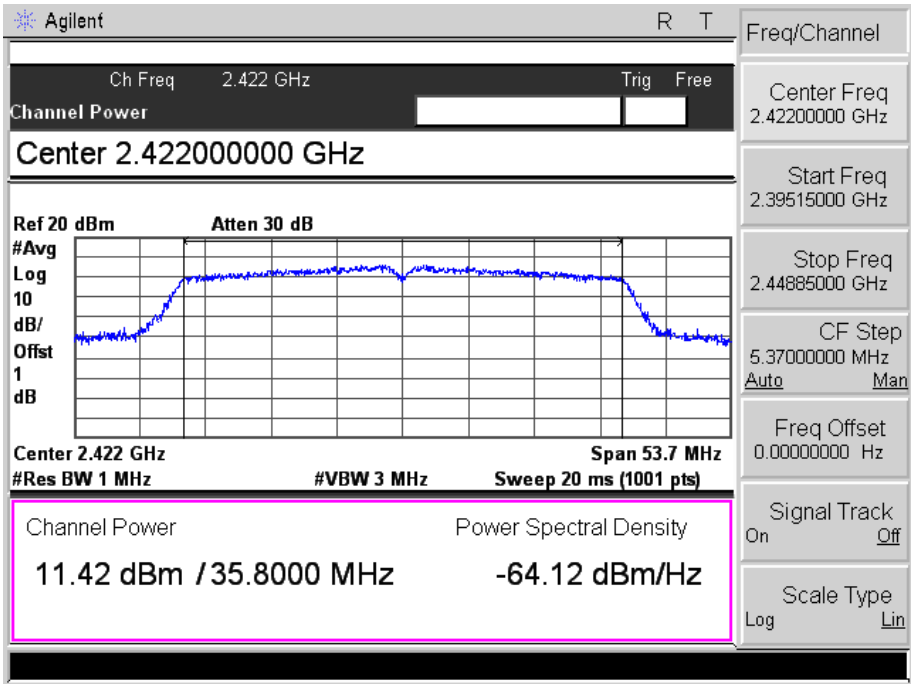
802.11n-HT20-MCS7-Middle Channel



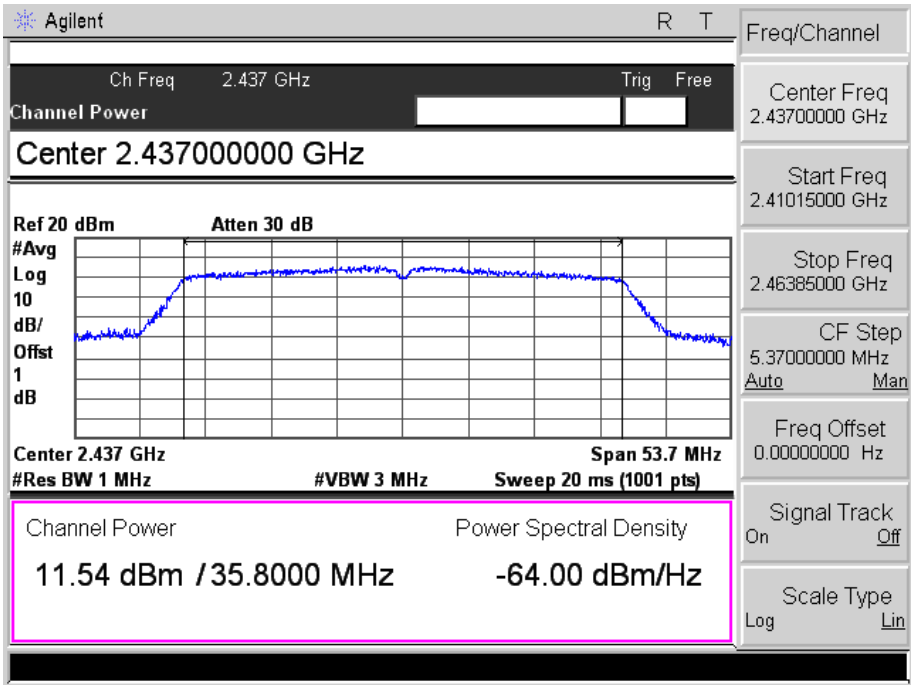
802.11n-HT20-MCS7-High Channel



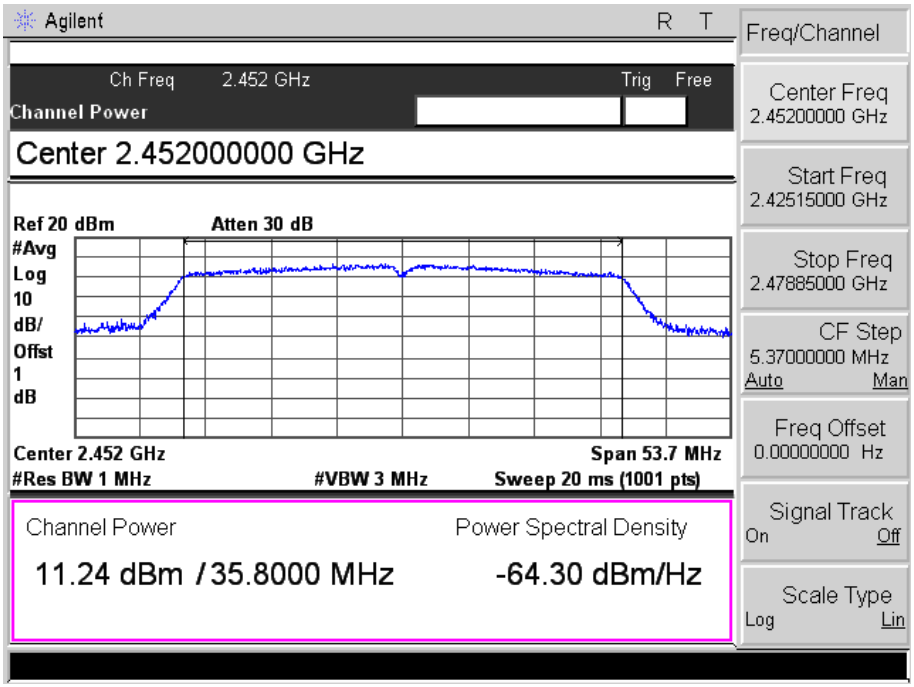
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel

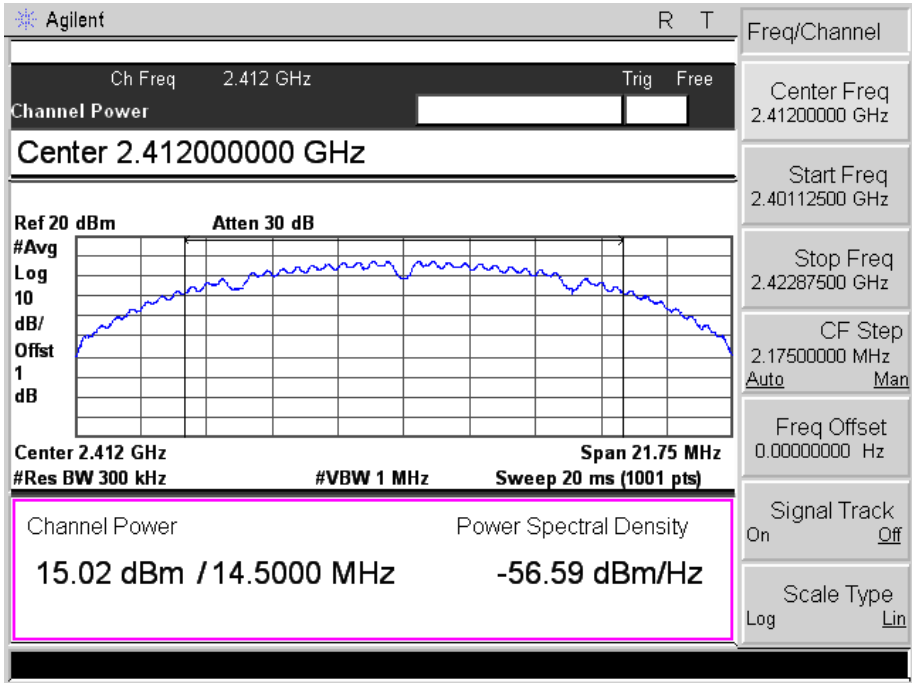


802.11n-HT40-MCS7-High Channel

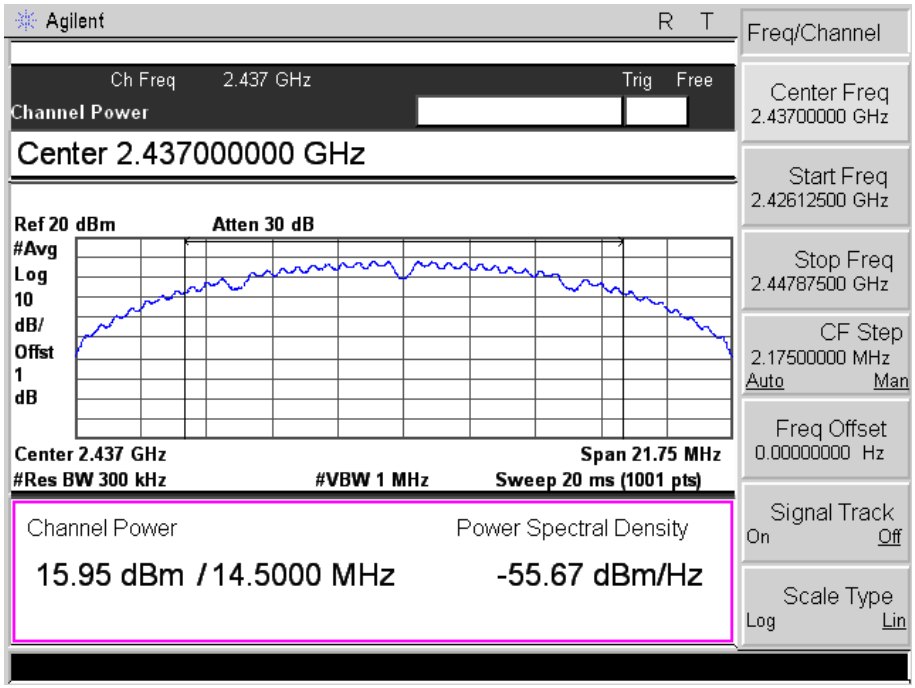


Antenna 2

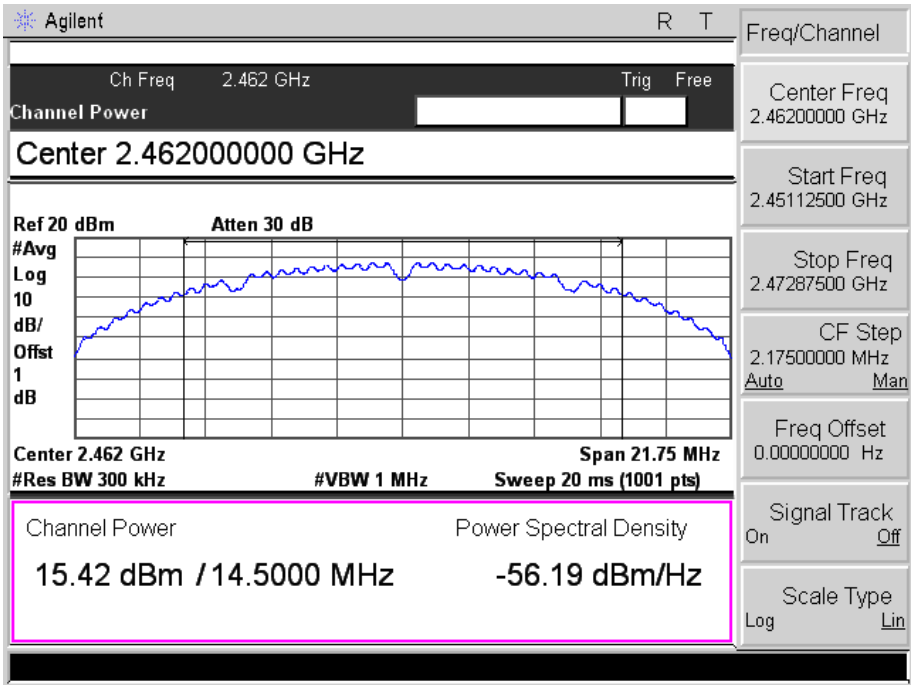
802.11b-11Mbps-Low Channel



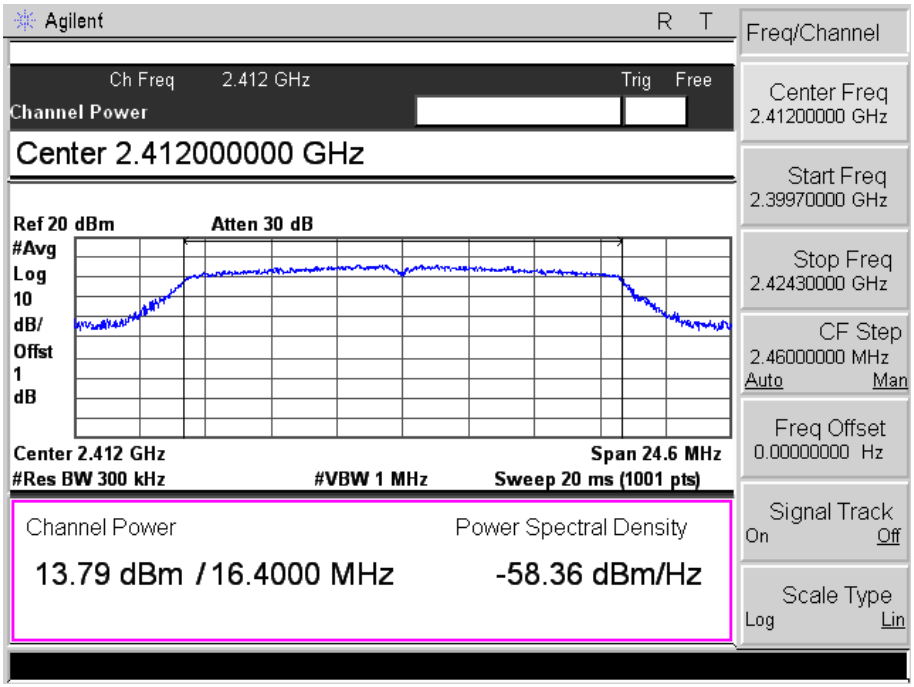
802.11b -11Mbps-Middle Channel



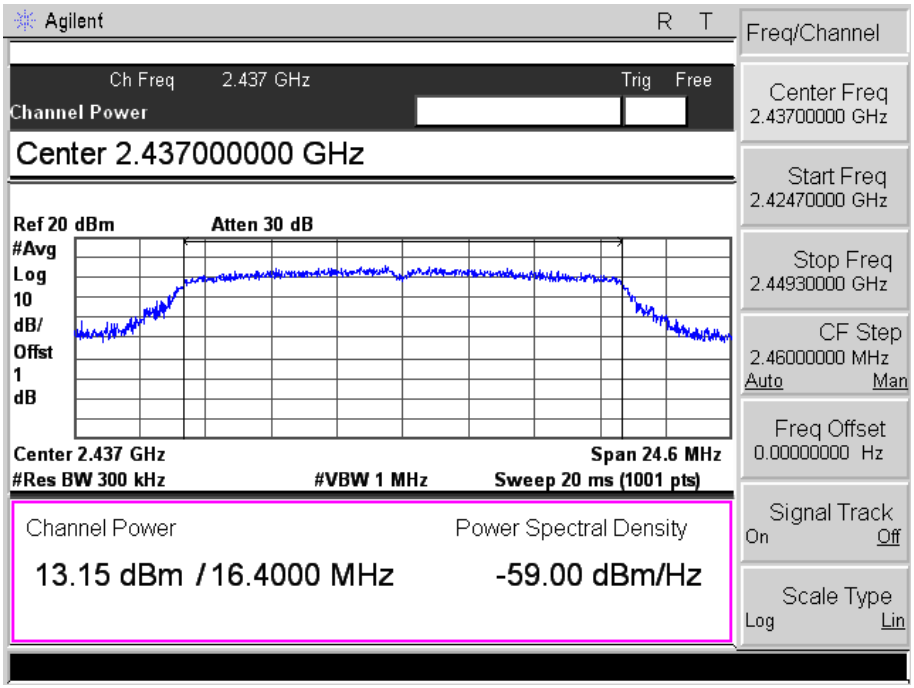
802.11b -11Mpbs-High Channel



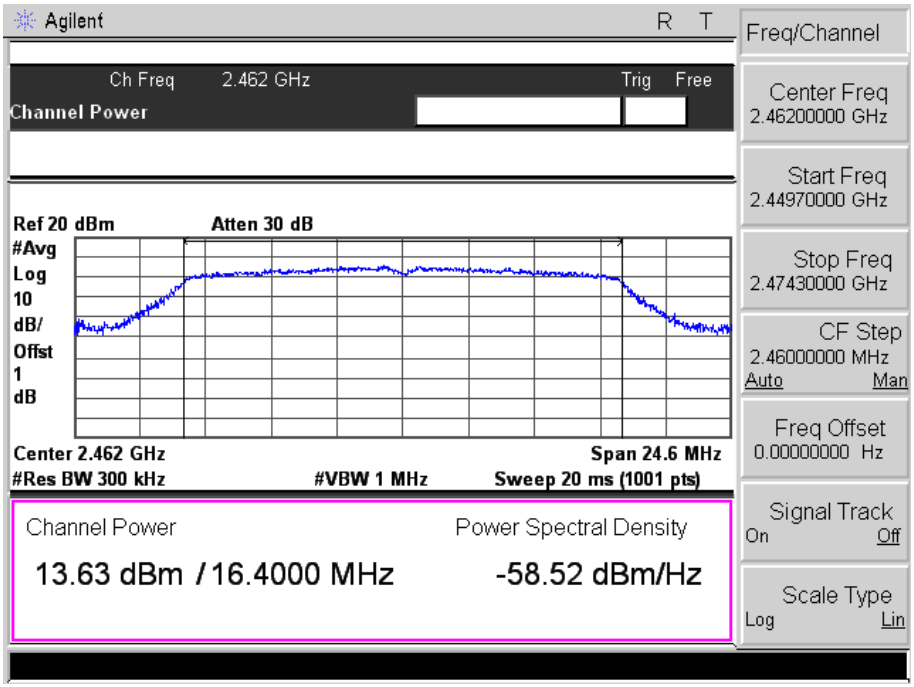
802.11g-54Mbps-Low Channel



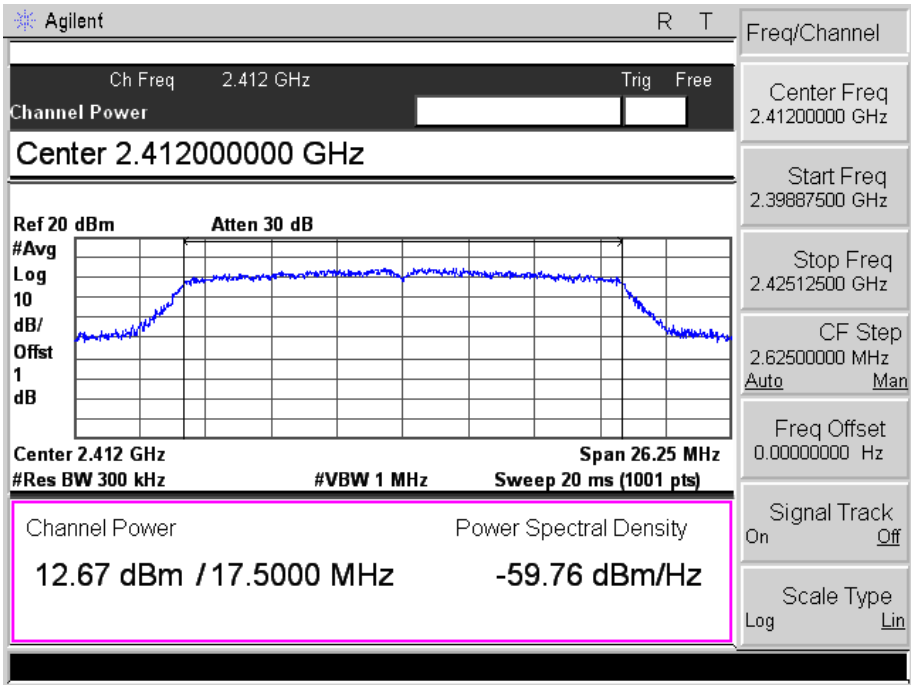
802.11g-54Mbps-Middle Channel



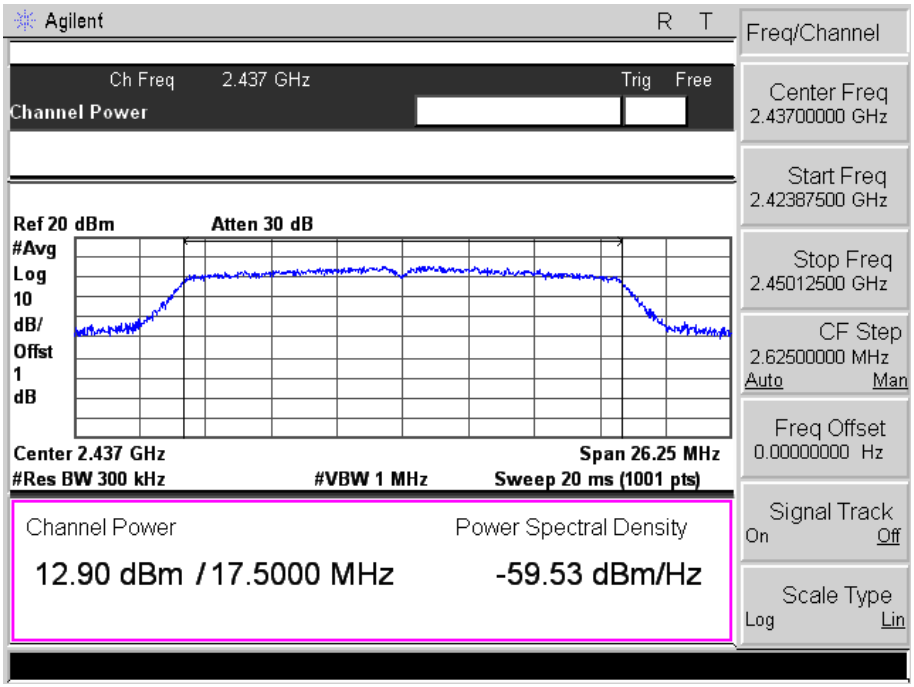
802.11g-54Mpbs-High Channel



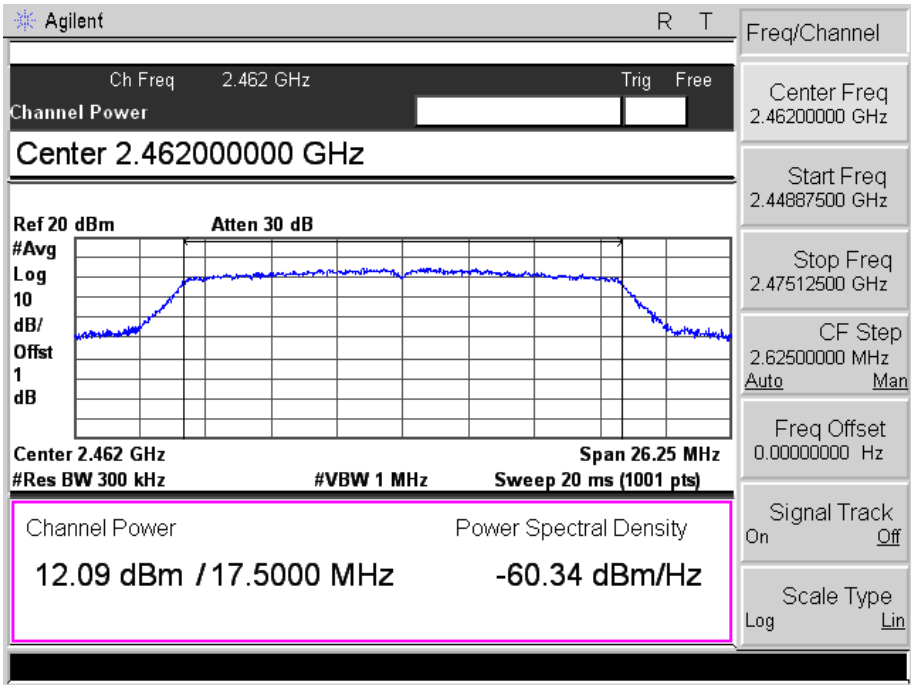
802.11n-HT20-MCS7-Low Channel



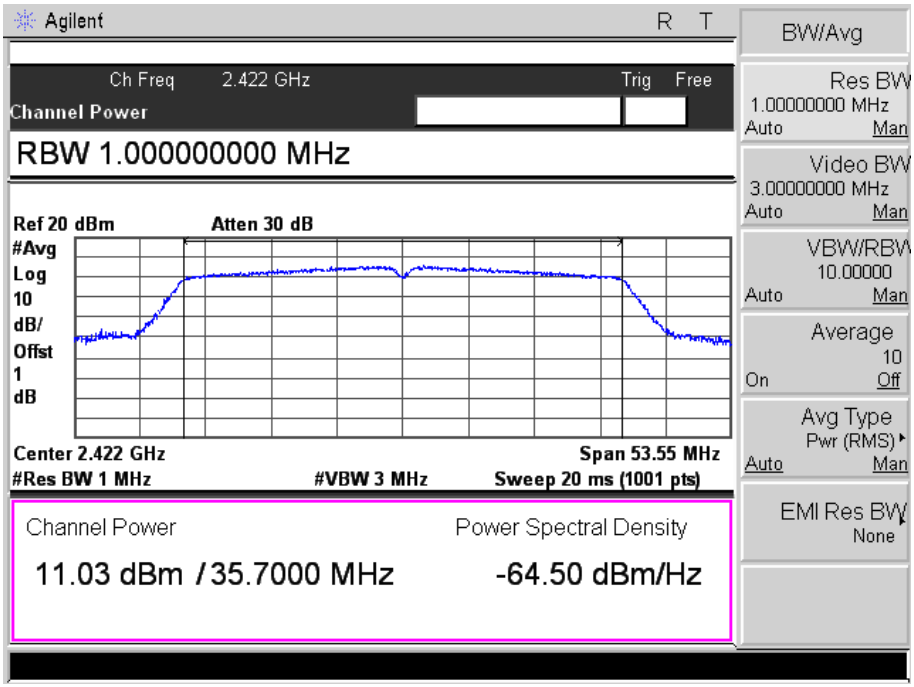
802.11n-HT20-MCS7-Middle Channel



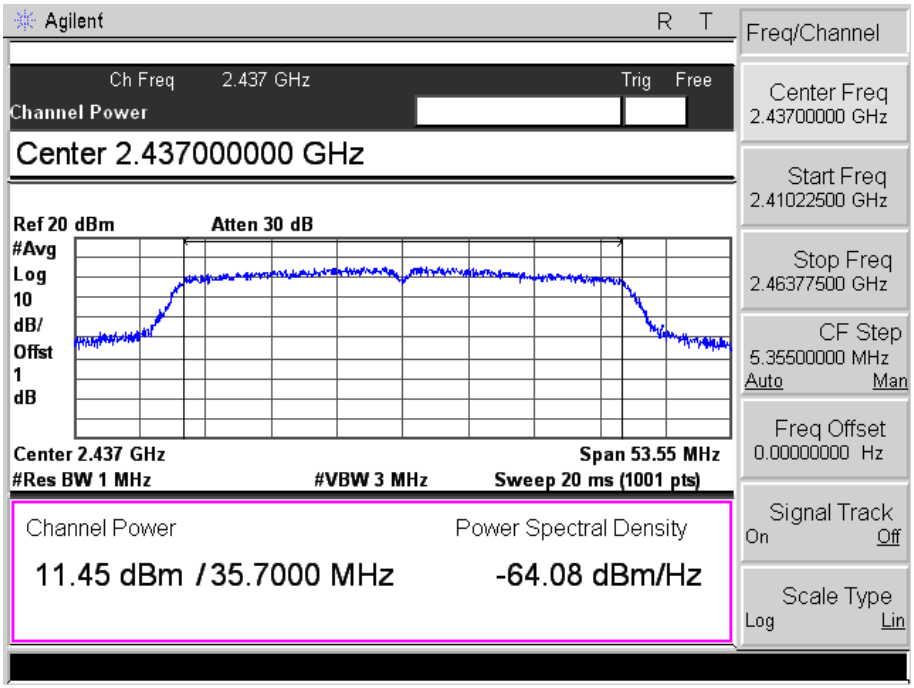
802.11n-HT20-MCS7-High Channel



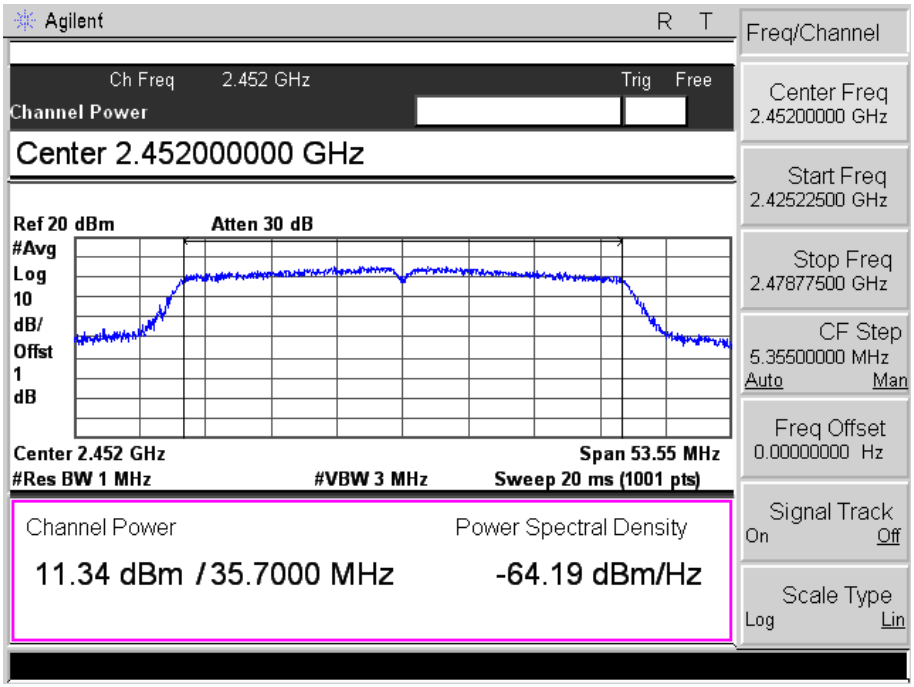
802.11n-HT40-MCS7-Low Channel



802.11n-HT40-MCS7-Middle Channel



802.11n-HT40-MCS7-High Channel



8. Field Strength of Spurious Emissions

8.1 Measurement Uncertainty

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

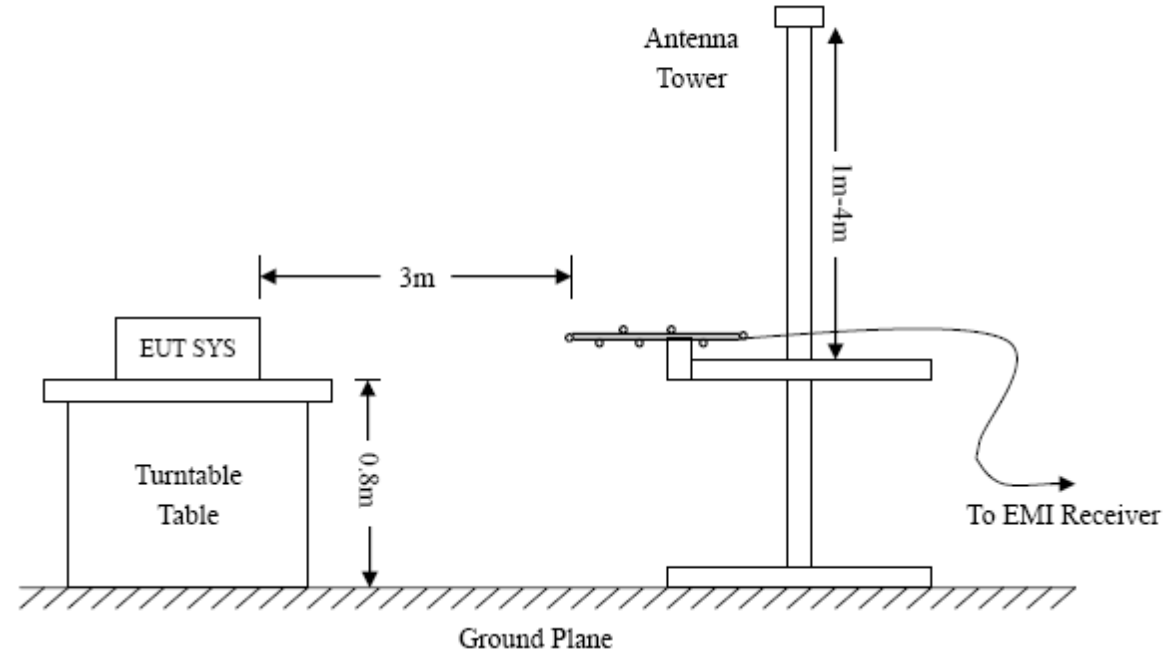
8.2 Standard Applicable

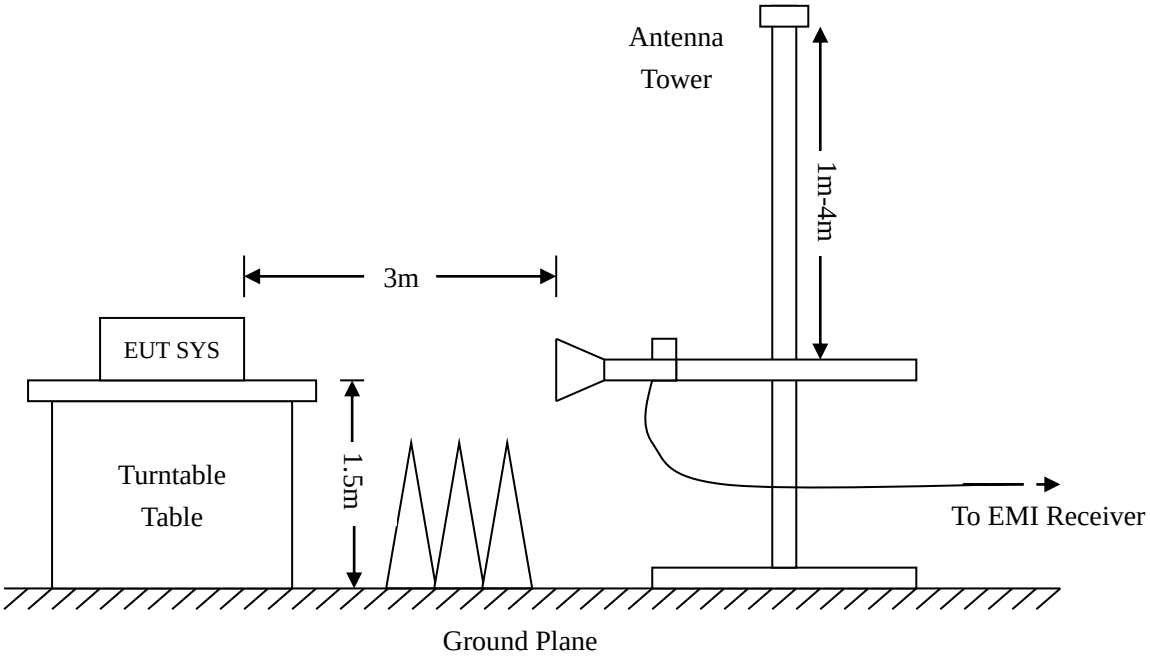
According to §15.247(d), in any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within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

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

8.3 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 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	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

8.4 Corrected Amplitude & Margin Calculation

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

Corr. Ampl. = Indicated Reading + Ant. Factor + Cable Loss – 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. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – FCC Part 15 Limit

8.5 Environmental Conditions

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

8.6 Summary of Test Results/Plots

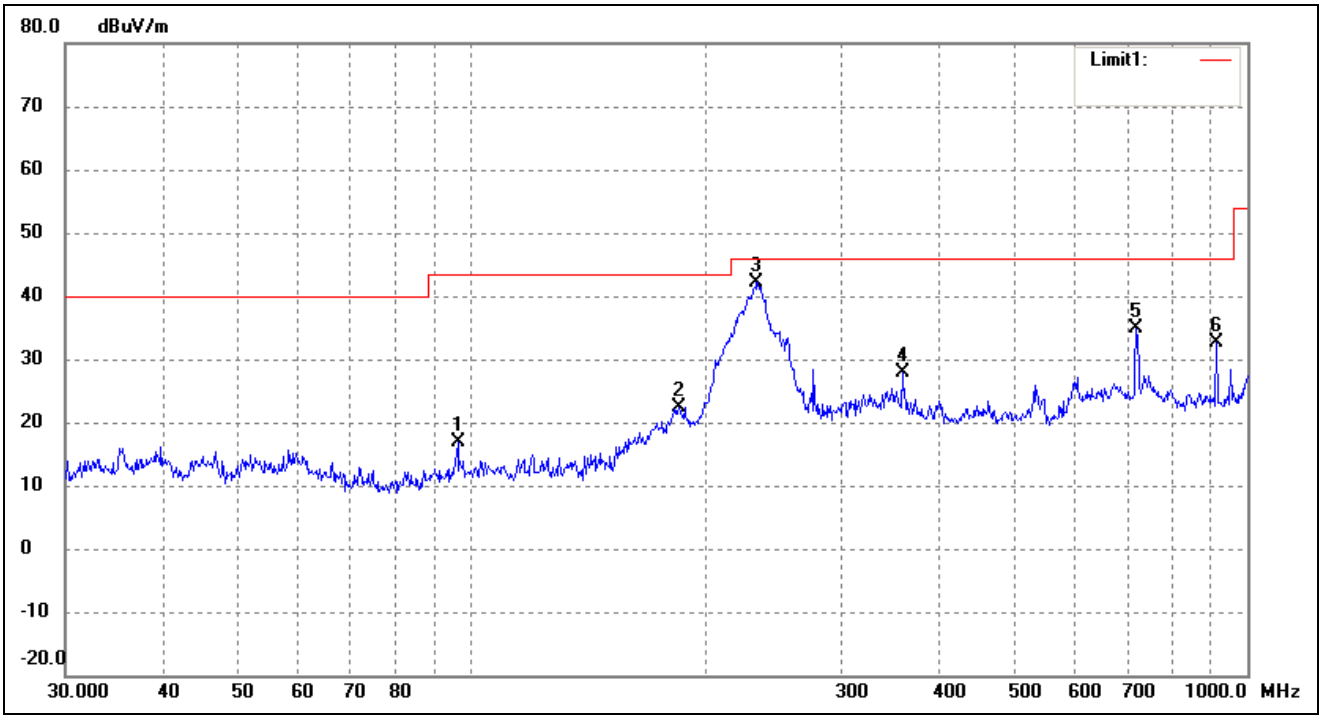
According to the data below, the FCC Part 15.205, 15.209 and 15.247 standards, and had the worst cases:

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

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

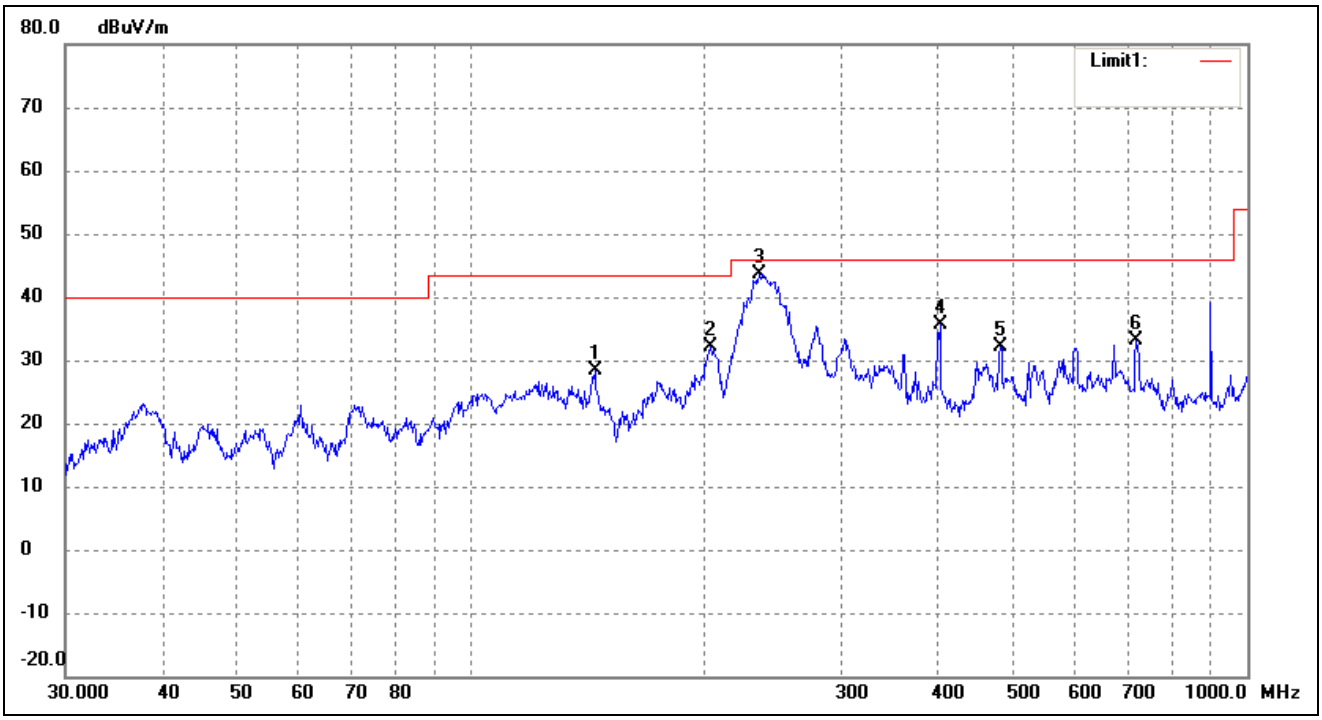
EUT: *SMART PROJECTOR*
Tested Model: *CAN*
Operating Condition: *802.11b Transmitting Low Channel-2412MHz(worst case)*
Comment: *Battery: DC 11.1V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	96.0986	35.71	-18.74	16.97	43.50	-26.53	296	100	peak
2	185.1379	41.76	-19.37	22.39	43.50	-21.11	98	100	peak
3	233.3487	54.72	-12.51	42.21	46.00	-3.79	180	100	peak
4	359.1860	36.23	-8.27	27.96	46.00	-18.04	119	100	peak
5	719.1995	38.35	-3.58	34.77	46.00	-11.23	335	100	peak
6	912.8620	37.39	-4.69	32.70	46.00	-13.30	91	100	peak

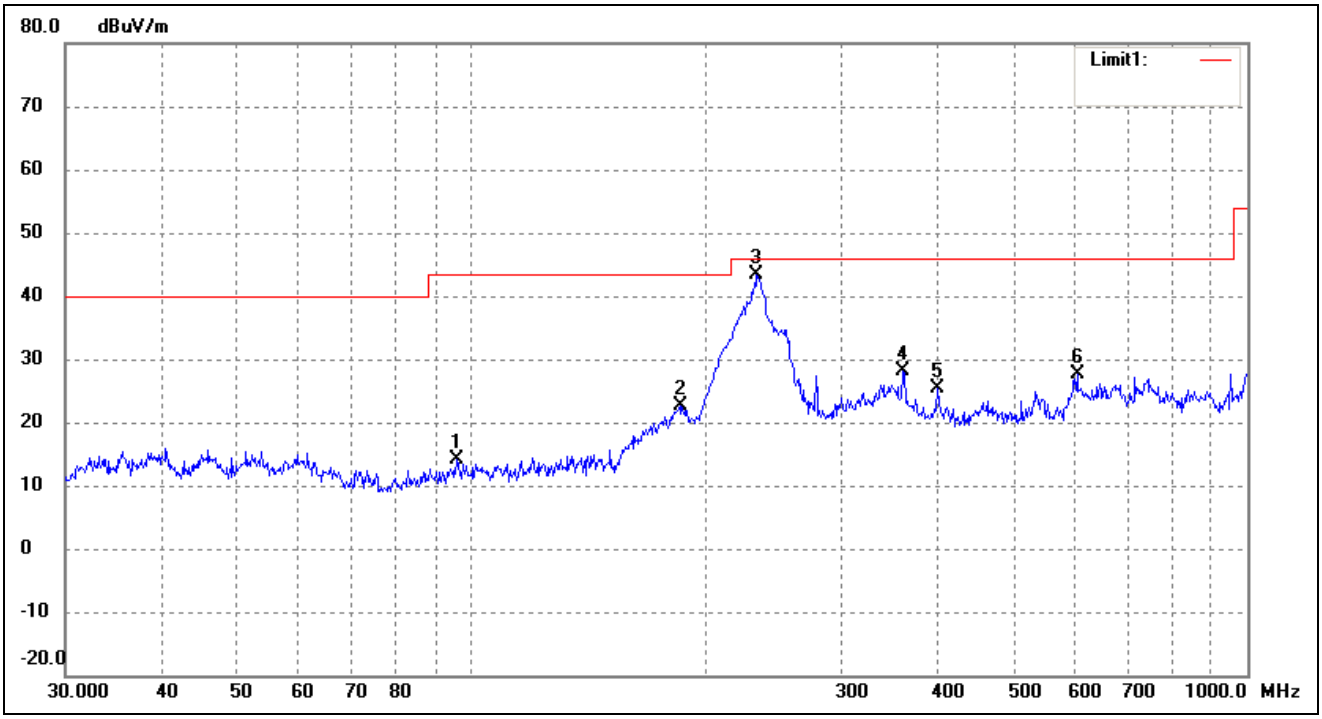
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	144.3348	47.54	-19.24	28.30	43.50	-15.20	260	100	peak
2	203.5228	49.92	-17.79	32.13	43.50	-11.37	95	100	peak
3	234.9909	56.01	-12.36	43.65	46.00	-2.35	105	100	peak
4	401.8385	43.40	-7.77	35.63	46.00	-10.37	105	100	peak
5	480.5276	40.38	-8.29	32.09	46.00	-13.91	230	100	peak
6	719.1995	36.61	-3.58	33.03	46.00	-12.97	291	100	peak

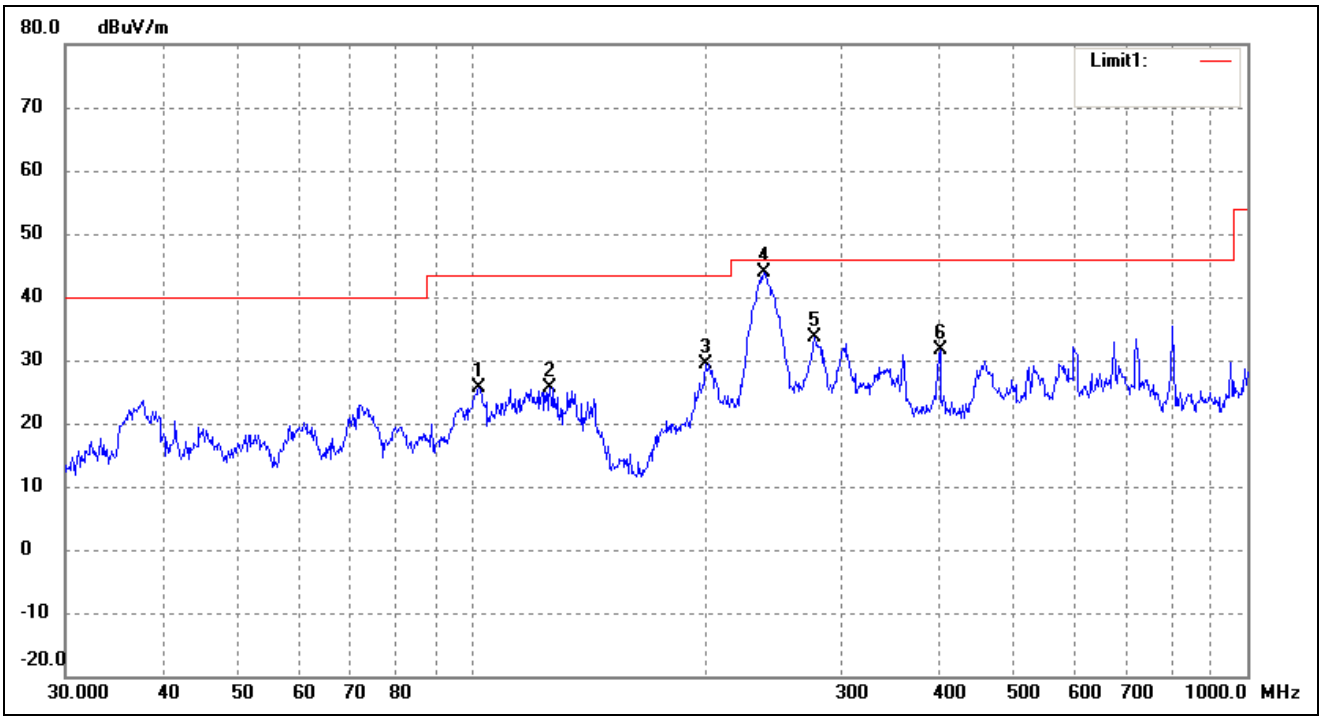
Operating Condition: *802.11b Transmitting Middle Channel-2437MHz(worst case)*
Comment: *Battery: DC 11.1V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	95.7622	32.98	-18.80	14.18	43.50	-29.32	219	100	peak
2	185.7882	41.95	-19.34	22.61	43.50	-20.89	118	100	peak
3	233.3487	55.77	-12.51	43.26	46.00	-2.74	97	100	peak
4	359.1860	36.47	-8.27	28.20	46.00	-17.80	302	100	peak
5	399.0302	33.00	-7.71	25.29	46.00	-20.71	132	100	peak
6	603.5392	30.33	-2.80	27.53	46.00	-18.47	156	100	peak

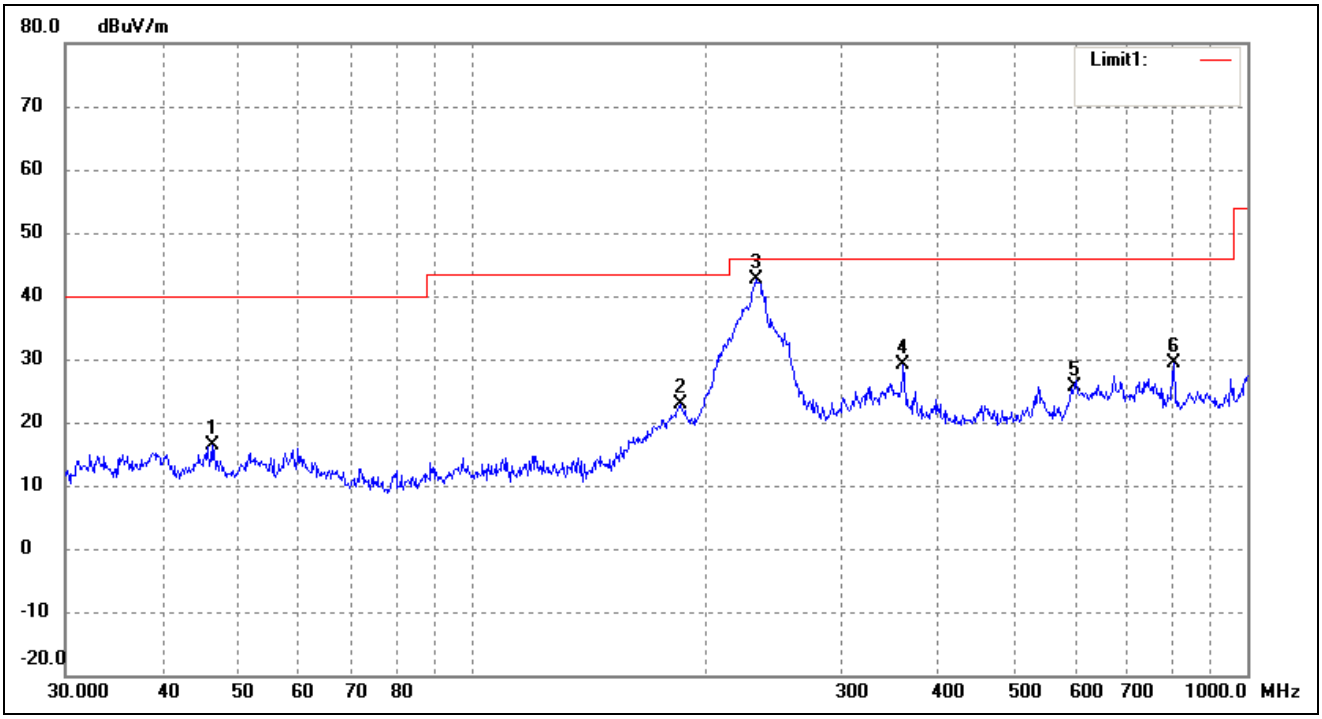
Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	102.3597	43.76	-18.06	25.70	43.50	-17.80	254	100	peak
2	126.3286	44.01	-18.27	25.74	43.50	-17.76	224	100	peak
3	200.6881	48.00	-18.50	29.50	43.50	-14.00	63	100	peak
4	238.3102	55.96	-12.06	43.90	46.00	-2.10	115	100	peak
5	277.0935	42.82	-9.29	33.53	46.00	-12.47	189	100	peak
6	401.8385	39.50	-7.77	31.73	46.00	-14.27	269	100	peak

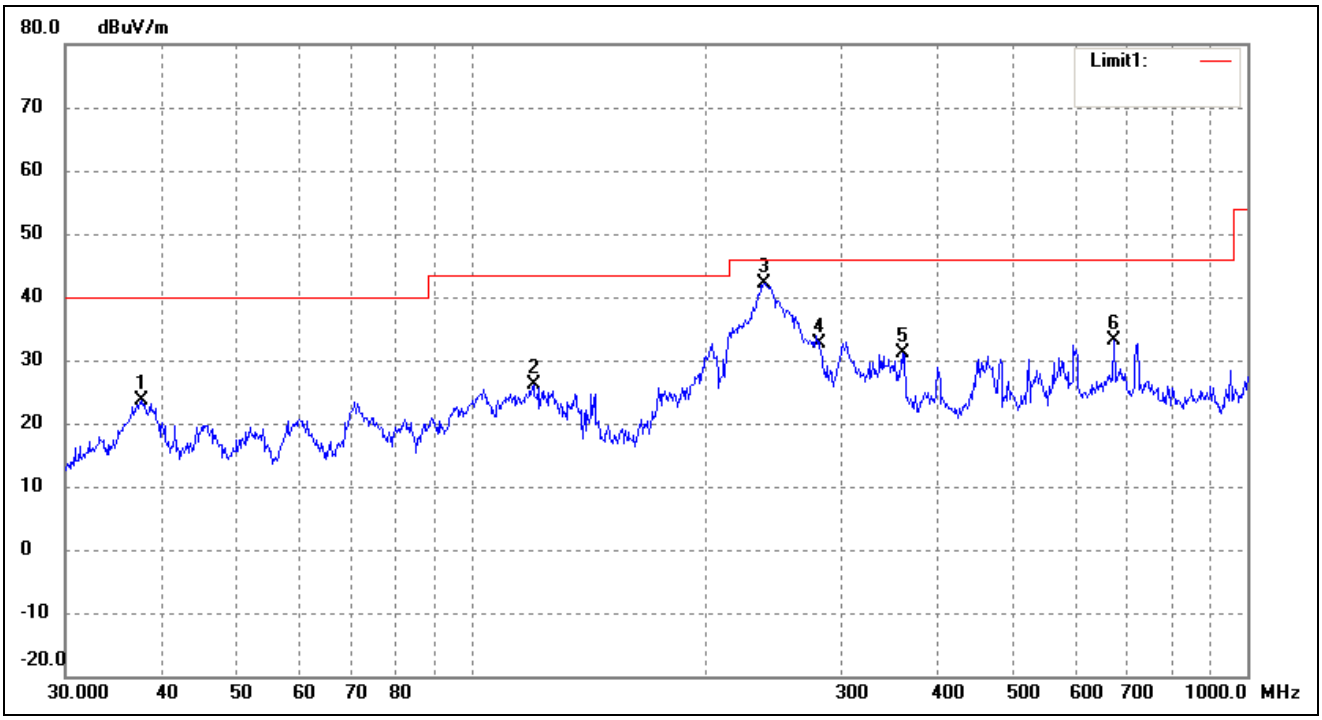
Operating Condition: *802.11b Transmitting High Channel-2462MHz(worst case)*
Comment: *Battery: DC 11.1V*

Test Specification: *Horizontal*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	46.3402	35.06	-18.57	16.49	40.00	-23.51	62	100	peak
2	185.7882	42.26	-19.34	22.92	43.50	-20.58	199	100	peak
3	232.5318	55.21	-12.58	42.63	46.00	-3.37	89	100	peak
4	360.4476	37.34	-8.26	29.08	46.00	-16.92	149	100	peak
5	599.3212	28.38	-2.68	25.70	46.00	-20.30	194	100	peak
6	804.6028	34.22	-4.73	29.49	46.00	-16.51	141	100	peak

Test Specification: *Vertical*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	( )	(cm)	
1	37.6798	42.47	-18.90	23.57	40.00	-16.43	70	100	peak
2	120.2766	44.01	-17.88	26.13	43.50	-17.37	134	100	peak
3	238.3102	54.13	-12.06	42.07	46.00	-3.93	126	100	peak
4	281.0075	41.73	-8.98	32.75	46.00	-13.25	128	100	peak
5	359.1860	39.52	-8.27	31.25	46.00	-14.75	164	100	peak
6	672.8444	36.07	-3.04	33.03	46.00	-12.97	295	100	peak

Spurious Emissions Above 1GHz

Test Mode: 802.11b(worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824	58.77	-3.87	54.9	74	-19.1	H	PK
4824	41.29	-3.87	37.42	54	-16.58	H	AV
7236	54.79	1.14	55.93	74	-18.07	H	PK
7236	40.78	1.19	41.97	54	-12.03	H	AV
4824	59.23	-3.86	55.37	74	-18.63	V	PK
4824	41.84	-3.86	37.98	54	-16.02	V	AV
7236	52.22	1.1	53.32	74	-20.68	V	PK
7236	40.78	1.1	41.88	54	-12.12	V	AV
Middle Channel-2437MHz							
4874	58.02	-3.74	54.28	74	-19.72	H	PK
4874	43.72	-3.74	39.98	54	-14.02	H	AV
7311	55.45	1.47	56.92	74	-17.08	H	PK
7311	40.59	1.47	42.06	54	-11.94	H	AV
4874	60.71	-3.74	56.97	74	-17.03	V	PK
4874	41.4	-3.74	37.66	54	-16.34	V	AV
7311	55.45	1.47	56.92	74	-17.08	V	PK
7311	38.58	1.47	40.05	54	-13.95	V	AV
High Channel-2462MHz							
4924	60.7	-3.59	57.11	74	-16.89	H	PK
4924	43.73	-3.59	40.14	54	-13.86	H	AV
7386	53.43	1.79	55.22	74	-18.78	H	PK
7386	40.5	1.79	42.29	54	-11.71	H	AV
4924	59.37	-3.59	55.78	74	-18.22	V	PK
4924	43.19	-3.59	39.6	54	-14.4	V	AV
7386	55.83	1.79	57.62	74	-16.38	V	PK
7386	38.81	1.79	40.6	54	-13.4	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 v04, 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 V04, 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 ≥ 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

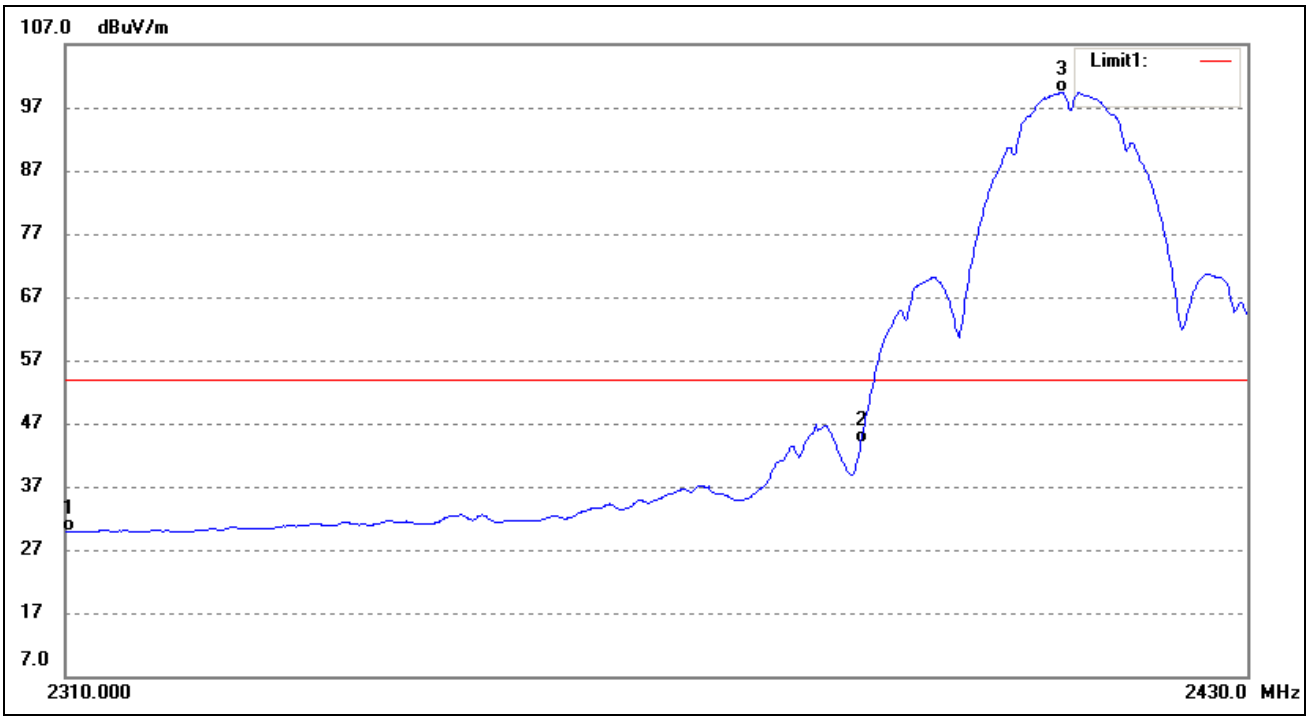
Temperature:	23°C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

9.4 Summary of Test Results/Plots

Antenna 1:

802.11b-Lowest Bandedge

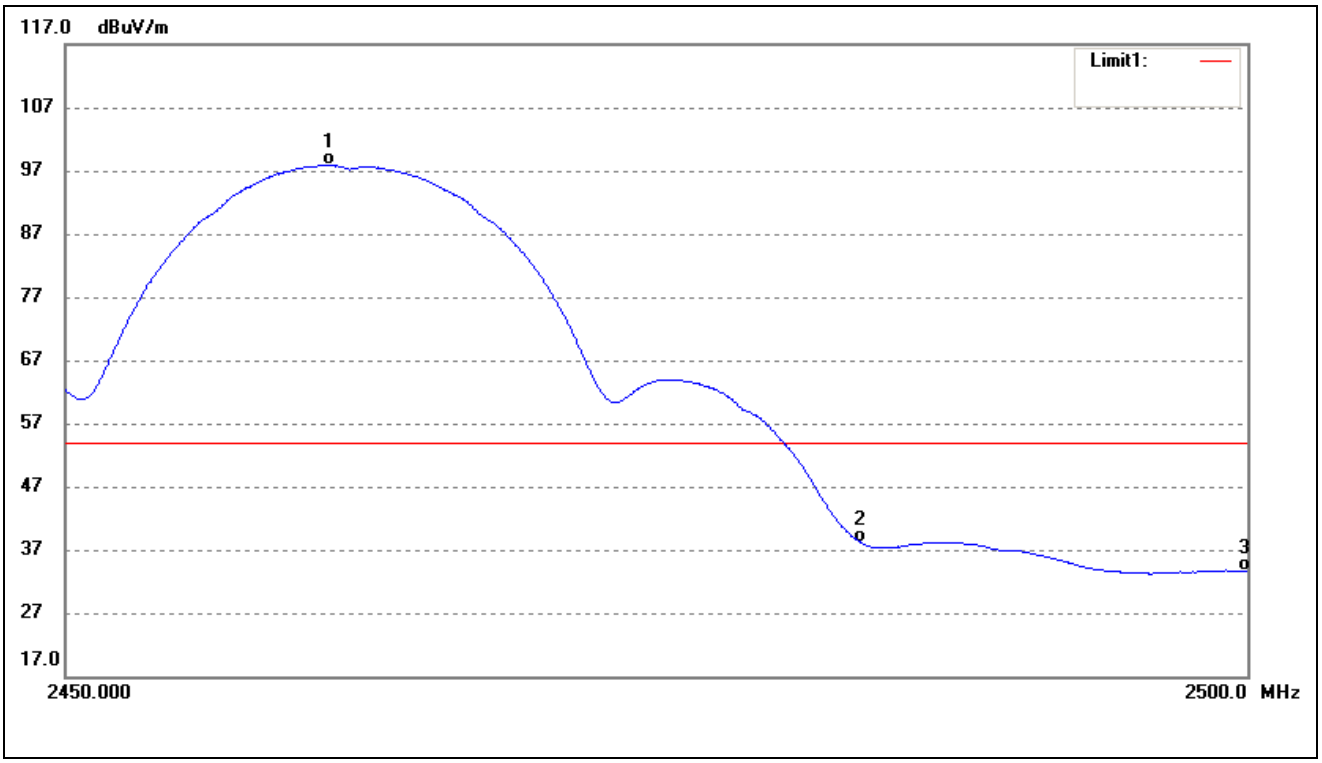
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	36.26	-6.29	29.97	54.00	-24.03	Average Detector
	2310.000	52.04	-6.29	45.75	74.00	-28.25	Peak Detector
2	2390.000	50.56	-6.72	43.84	54.00	-10.16	Average Detector
	2390.000	60.02	-6.72	53.30	74.00	-20.70	Peak Detector
3	2410.756	106.25	-6.83	99.42	/	/	Average Detector
	2410.633	110.95	-6.82	104.13	/	/	Peak Detector

802.11b-Highest Bandedge

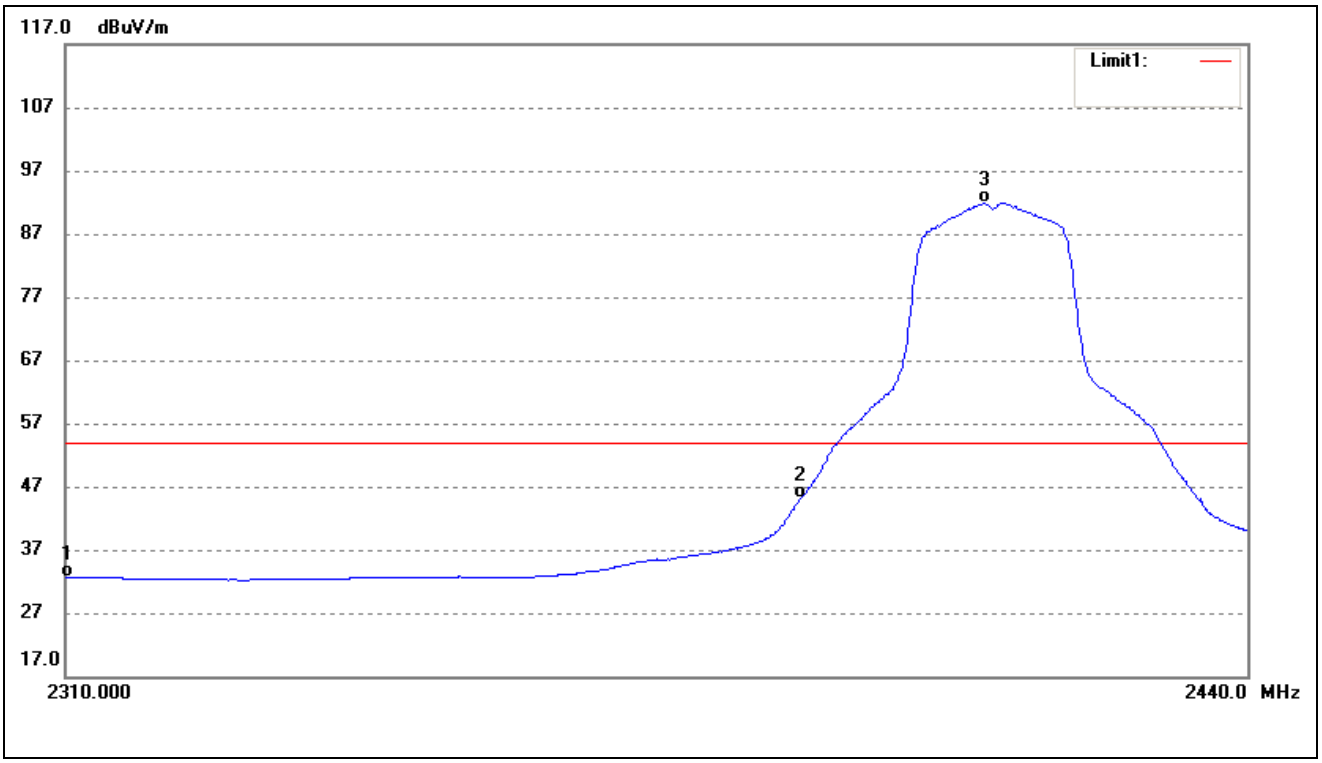
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.063	105.02	-7.09	97.93	/	/	Average Detector
	2461.709	113.03	-7.10	105.93	/	/	Peak Detector
2	2483.500	45.40	-7.22	38.18	54.00	-15.82	Average Detector
	2483.500	57.38	-7.22	50.16	74.00	-23.84	Peak Detector
3	2500.000	40.86	-7.30	33.56	54.00	-20.44	Average Detector
	2500.000	53.39	-7.30	46.09	74.00	-27.91	Peak Detector

802.11g-Lowest Bandedge

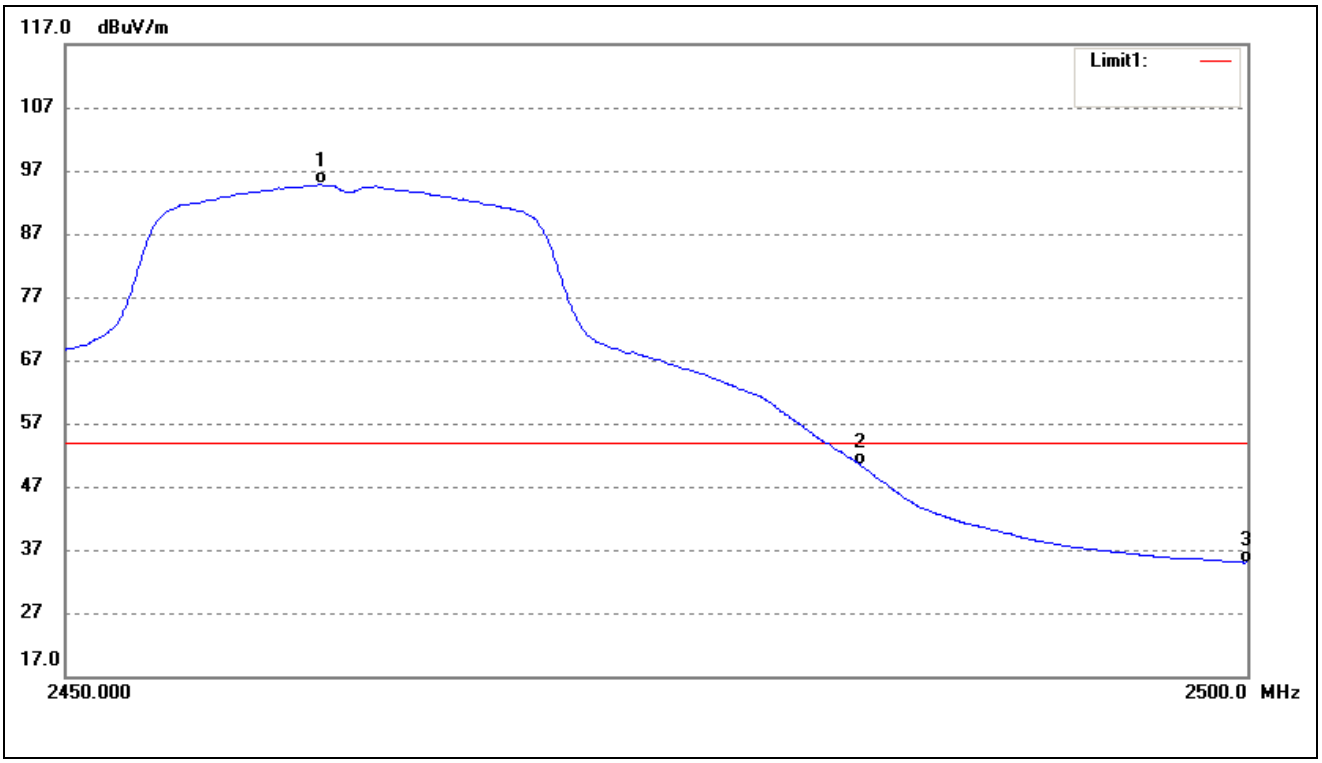
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	38.95	-6.29	32.66	54.00	-21.34	Average Detector
	2310.000	49.86	-6.29	43.57	74.00	-30.43	Peak Detector
2	2390.000	51.79	-6.72	45.07	54.00	-8.93	Average Detector
	2390.000	68.07	-6.72	61.35	74.00	-12.65	Peak Detector
3	2410.522	98.75	-6.82	91.93	/	/	Average Detector
	2410.126	108.14	-6.82	101.32	/	/	Peak Detector

802.11g-Highest Bandedge

Vertical (Worst case)

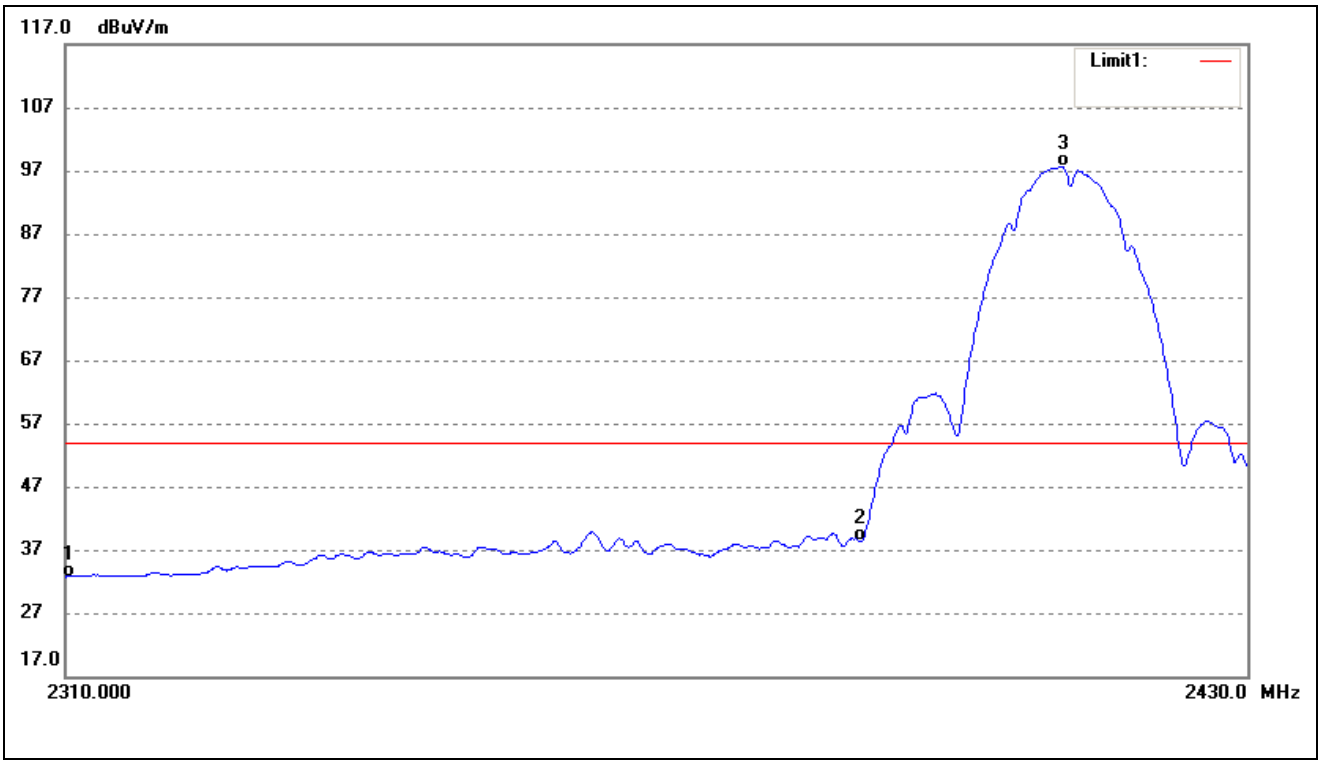


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
2	2460.715	101.91	-7.09	94.82	/	/	Average Detector
	2460.566	111.48	-7.09	104.39	/	/	Peak Detector
1	2483.500	57.60	-7.22	50.38	54.00	-3.62	Average Detector
	2483.500	73.28	-7.22	66.06	74.00	-7.94	Peak Detector
3	2500.000	42.30	-7.30	35.00	54.00	-19.00	Average Detector
	2500.000	53.82	-7.30	46.52	74.00	-27.48	Peak Detector

Antenna 2:

802.11b -Lowest Bandedge

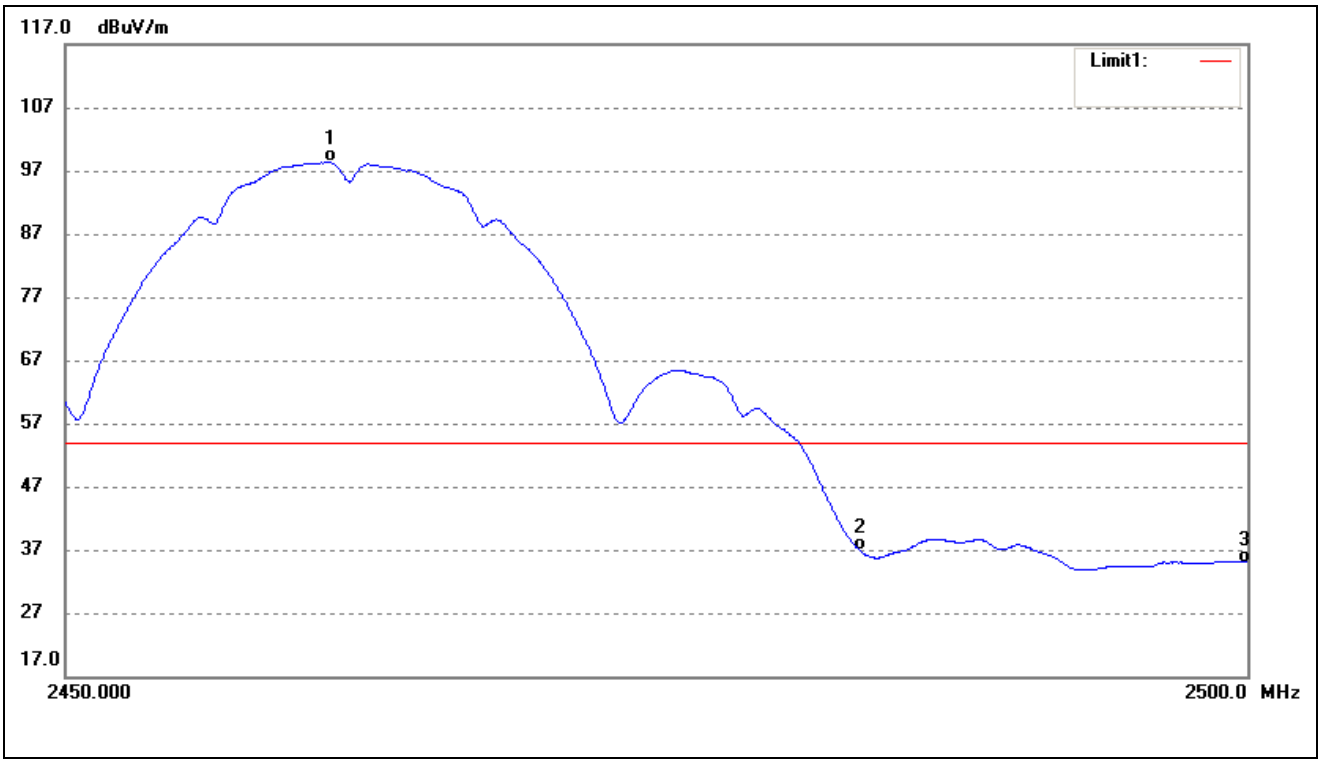
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	39.03	-6.29	32.74	54.00	-21.26	Average Detector
	2310.000	54.26	-6.29	47.97	74.00	-26.03	Peak Detector
2	2390.000	45.17	-6.72	38.45	54.00	-15.55	Average Detector
	2390.000	55.47	-6.72	48.75	74.00	-25.25	Peak Detector
3	2410.878	104.46	-6.83	97.63	/	/	Average Detector
	2410.267	109.07	-6.82	102.25	/	/	Peak Detector

802.11b -Highest Bandedge

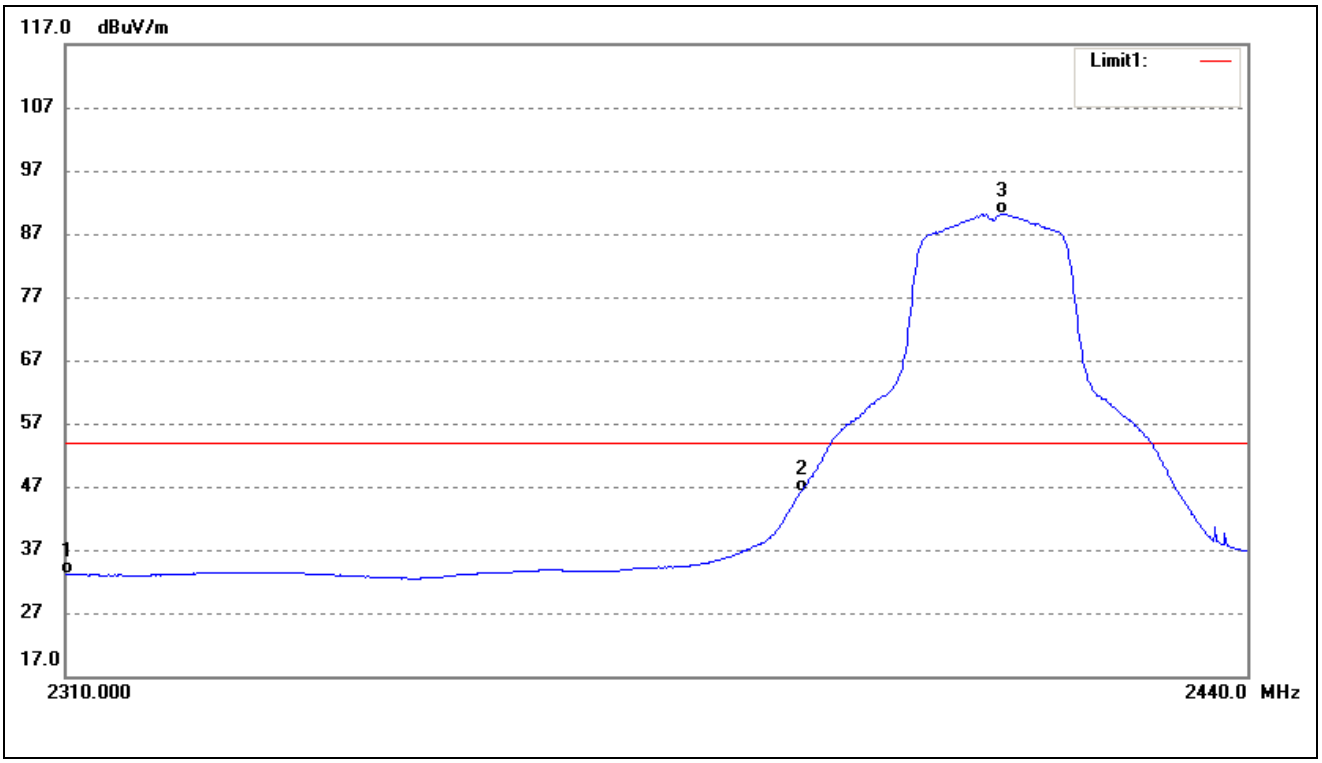
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2461.112	105.45	-7.09	98.36	/	/	Average Detector
	2460.416	109.87	-7.09	102.78	/	/	Peak Detector
2	2483.500	44.01	-7.22	36.79	54.00	-17.21	Average Detector
	2483.500	55.35	-7.22	48.13	74.00	-25.87	Peak Detector
3	2500.000	42.28	-7.30	34.98	54.00	-19.02	Average Detector
	2500.000	53.53	-7.30	46.23	74.00	-27.77	Peak Detector

802.11g -Lowest Bandedge

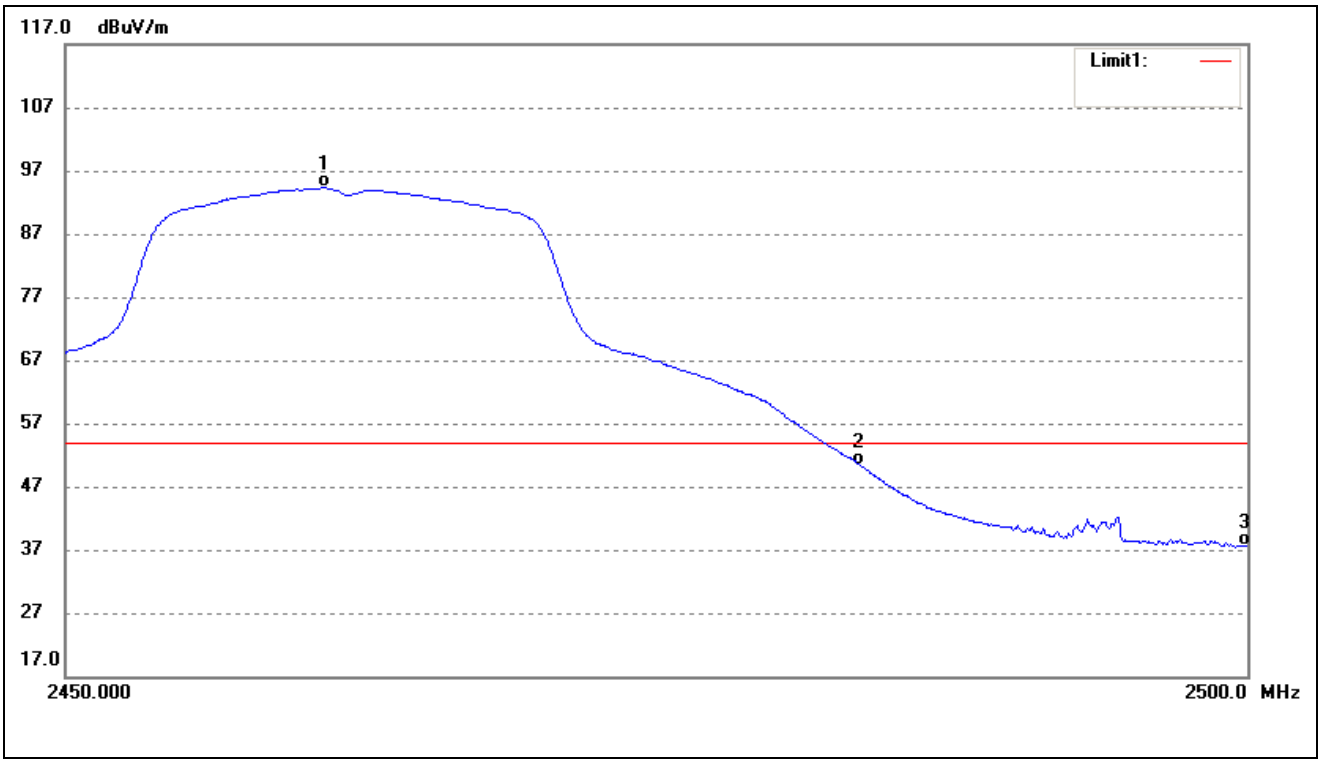
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	39.37	-6.29	33.08	54.00	-20.92	Average Detector
	2310.000	51.06	-6.29	44.77	74.00	-29.23	Peak Detector
2	2390.000	52.90	-6.72	46.18	54.00	-7.82	Average Detector
	2390.000	71.03	-6.72	64.31	74.00	-9.69	Peak Detector
3	2412.503	97.05	-6.84	90.21	/	/	Average Detector
	2412.767	106.76	-6.84	99.92	/	/	Peak Detector

802.11g-Highest Bandedge

Vertical (Worst case)

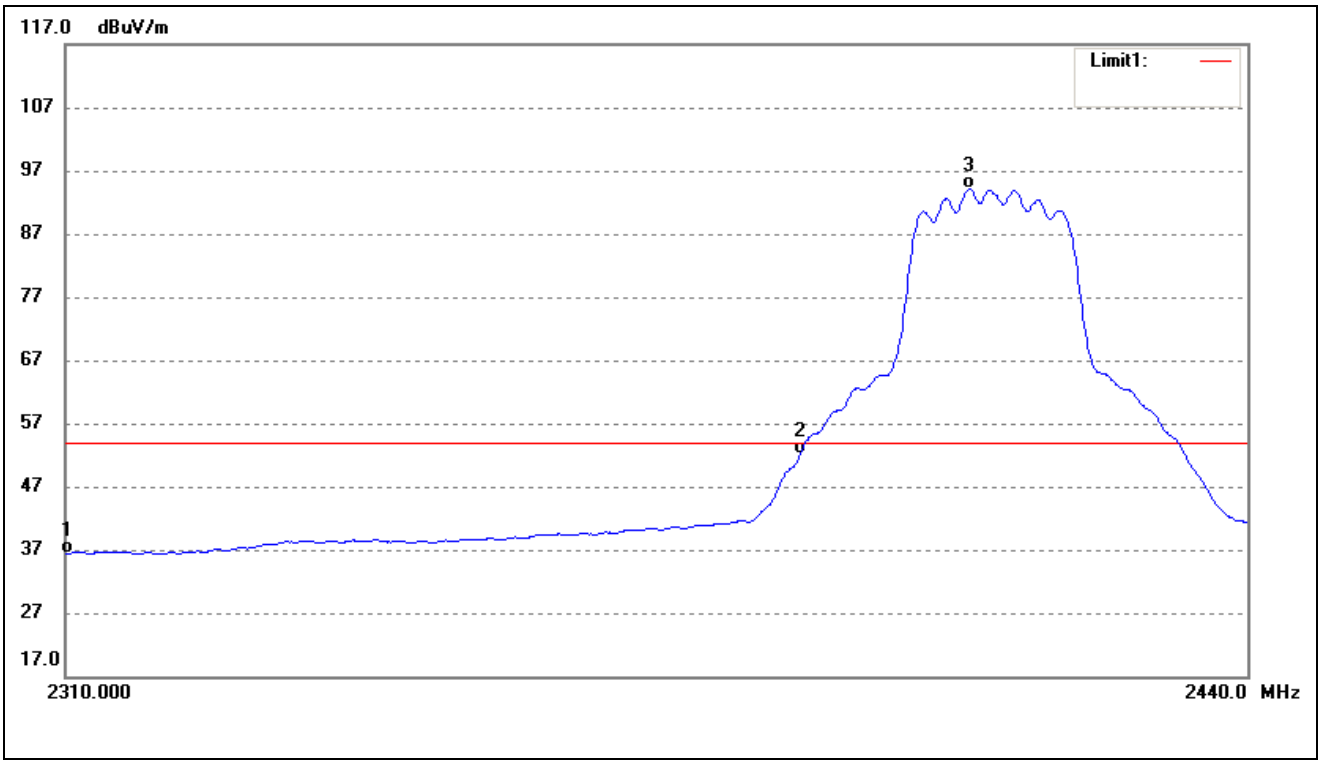


No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.864	101.46	-7.09	94.37	/	/	Average Detector
	2460.665	111.00	-7.09	103.91	/	/	Peak Detector
2	2483.500	57.56	-7.22	50.34	54.00	-3.66	Average Detector
	2483.500	73.19	-7.22	65.97	74.00	-8.03	Peak Detector
3	2500.000	44.93	-7.30	37.63	54.00	-16.37	Average Detector
	2500.000	56.77	-7.30	49.47	74.00	-24.53	Peak Detector

Antenna 1&2:

802.11n-HT20 -Lowest Bandedge

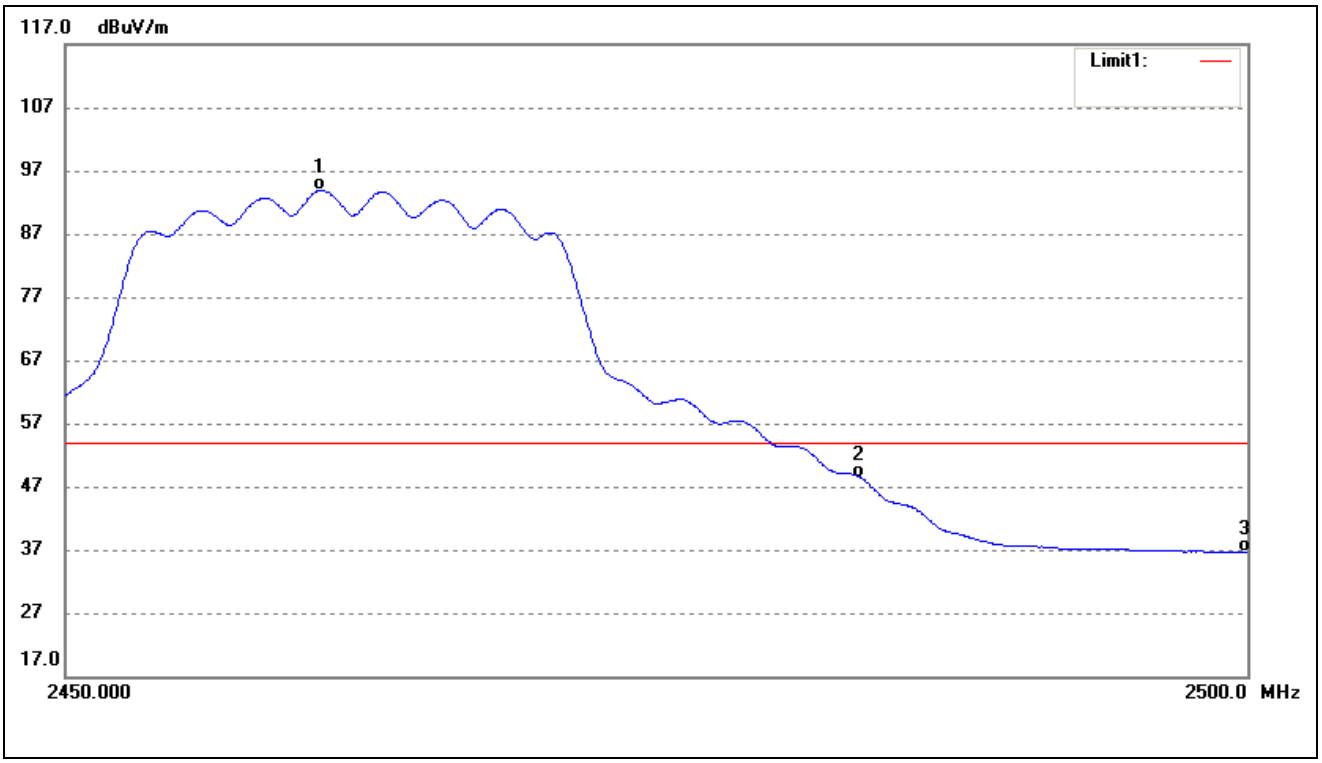
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	42.73	-6.29	36.44	54.00	-17.56	Average Detector
	2310.000	53.38	-6.29	47.09	74.00	-26.91	Peak Detector
2	2390.000	58.92	-6.72	52.20	54.00	-1.80	Average Detector
	2390.000	76.65	-6.72	69.93	74.00	-4.07	Peak Detector
3	2408.807	100.96	-6.82	94.14	/	/	Average Detector
	2408.675	110.26	-6.82	103.44	/	/	Peak Detector

802.11n-HT20-Highest Bandedge

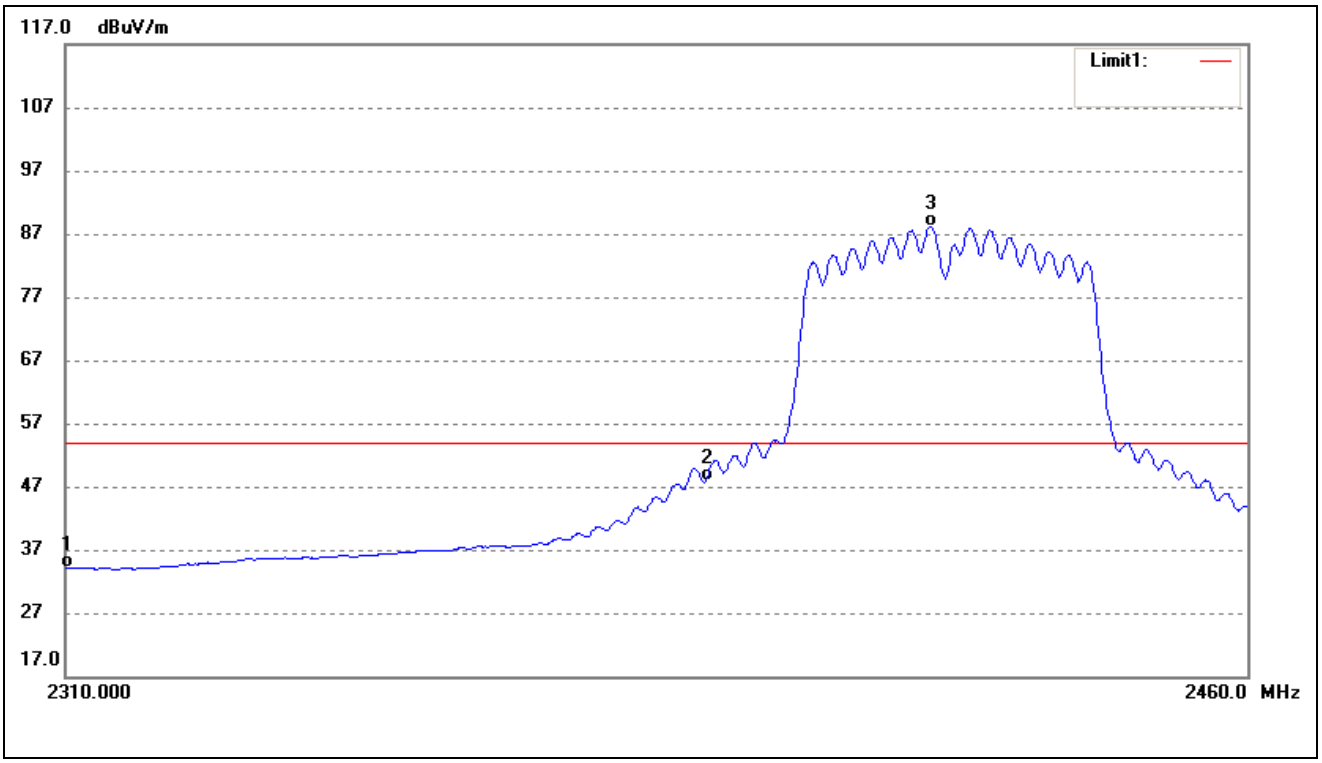
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2460.665	101.00	-7.09	93.91	/	/	Average Detector
	2460.615	110.29	-7.09	103.20	/	/	Peak Detector
2	2483.500	55.68	-7.22	48.46	54.00	-5.54	Average Detector
	2483.500	74.50	-7.22	67.28	74.00	-6.72	Peak Detector
3	2500.000	43.87	-7.30	36.57	54.00	-17.43	Average Detector
	2500.000	55.24	-7.30	47.94	74.00	-26.06	Peak Detector

802.11n-HT40 -Lowest Bandedge

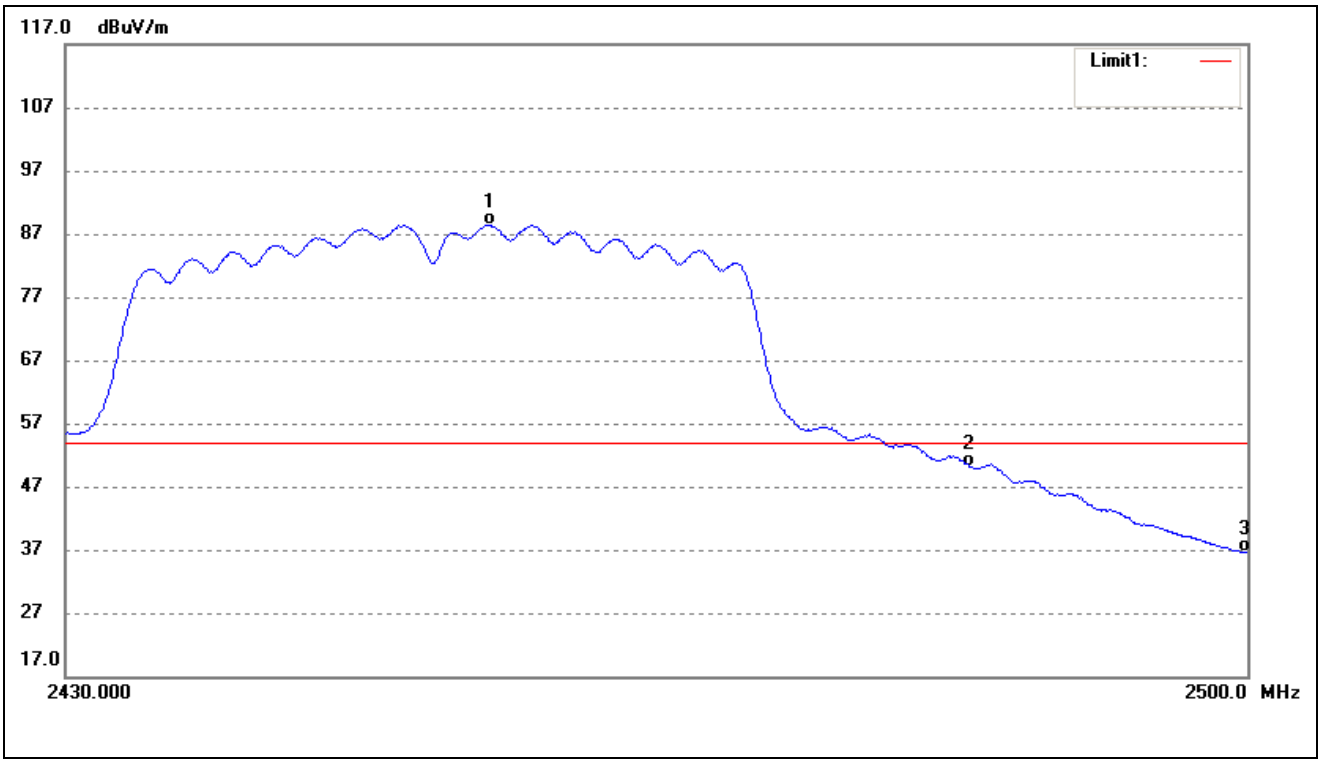
Vertical (Worst case)



No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2310.000	40.48	-6.29	34.19	54.00	-19.81	Average Detector
	2310.000	53.03	-6.29	46.74	74.00	-27.26	Peak Detector
2	2390.000	54.66	-6.72	47.94	54.00	-6.06	Average Detector
	2390.000	75.06	-6.72	68.34	74.00	-5.66	Peak Detector
3	2419.022	95.05	-6.87	88.18	/	/	Average Detector
	2423.592	107.09	-6.90	100.19	/	/	Peak Detector

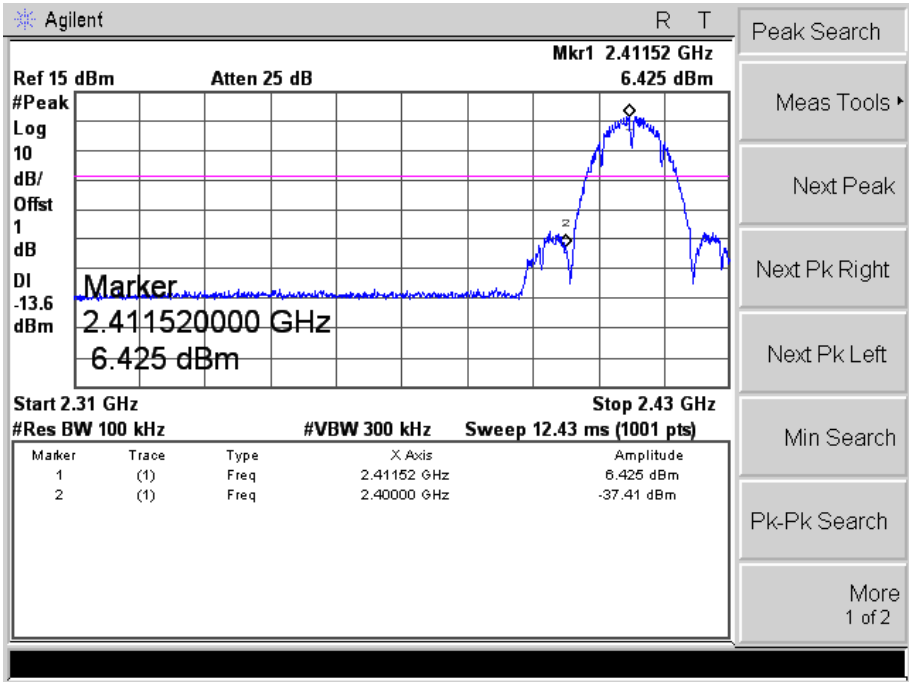
802.11n-HT40-Highest Bandedge

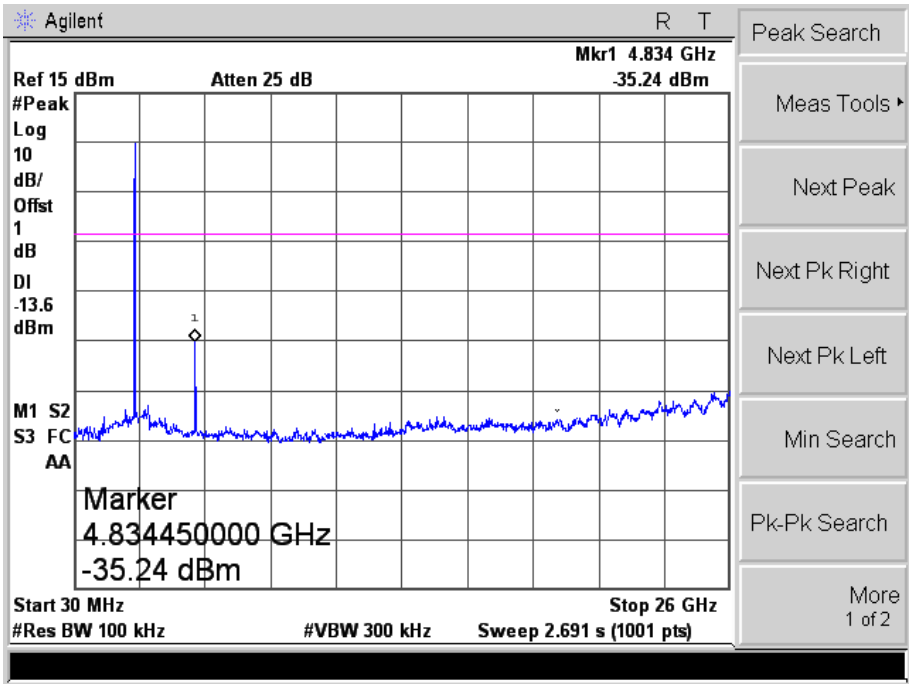
Vertical (Worst case)



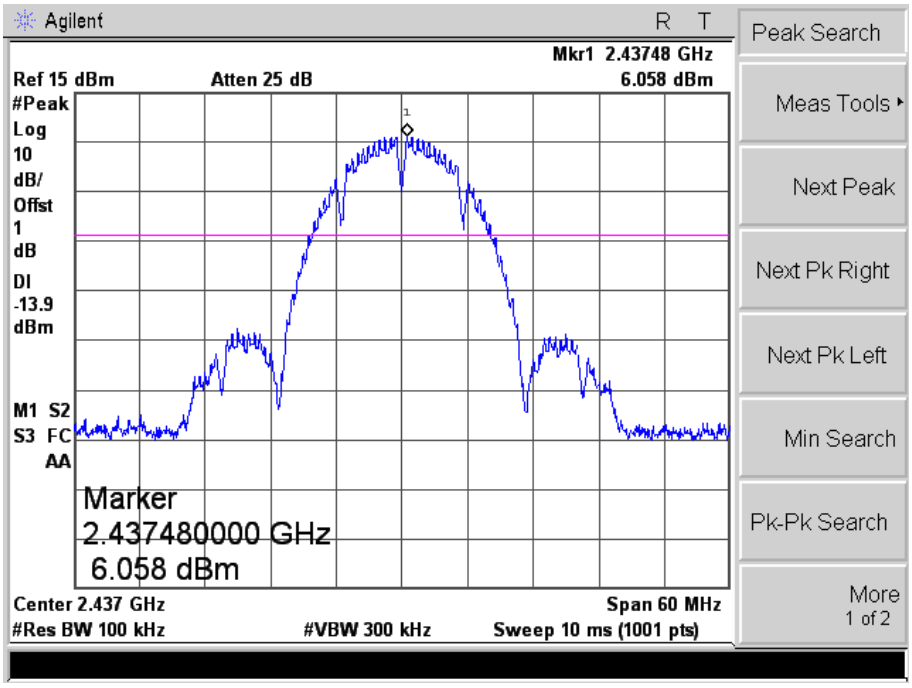
No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
1	2454.902	95.48	-7.06	88.42	/	/	Average Detector
	2449.331	108.70	-7.03	101.67	/	/	Peak Detector
2	2483.500	57.28	-7.22	50.06	54.00	-3.94	Average Detector
	2483.500	76.66	-7.22	69.44	74.00	-4.56	Peak Detector
3	2500.000	43.87	-7.30	36.57	54.00	-17.43	Average Detector
	2500.000	62.03	-7.30	54.73	74.00	-19.27	Peak Detector

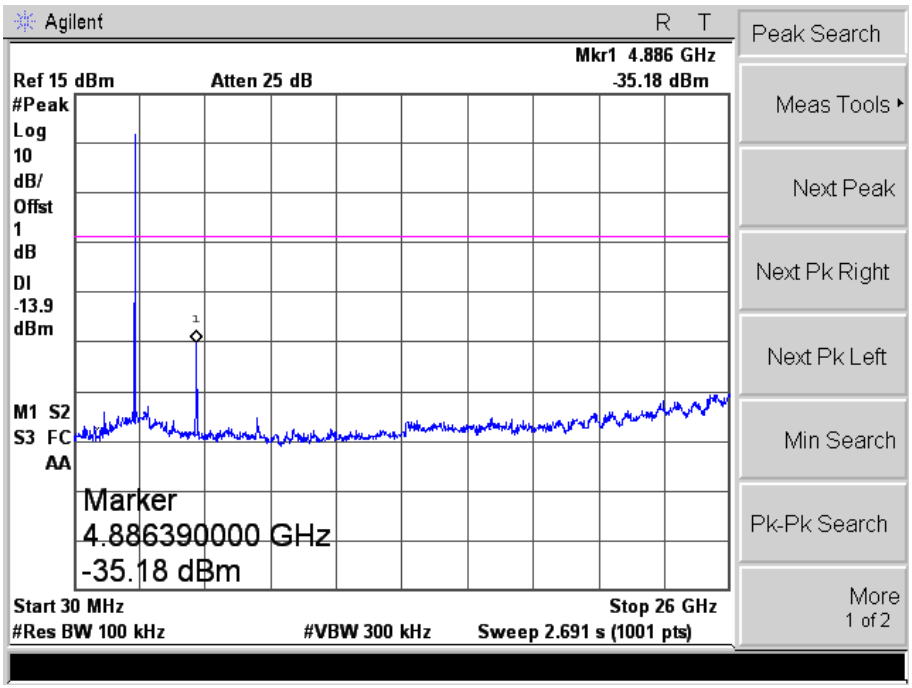
Ant. 1
Out-of-Band and Spurious Emission (Conducted)
802.11b
Low Channel



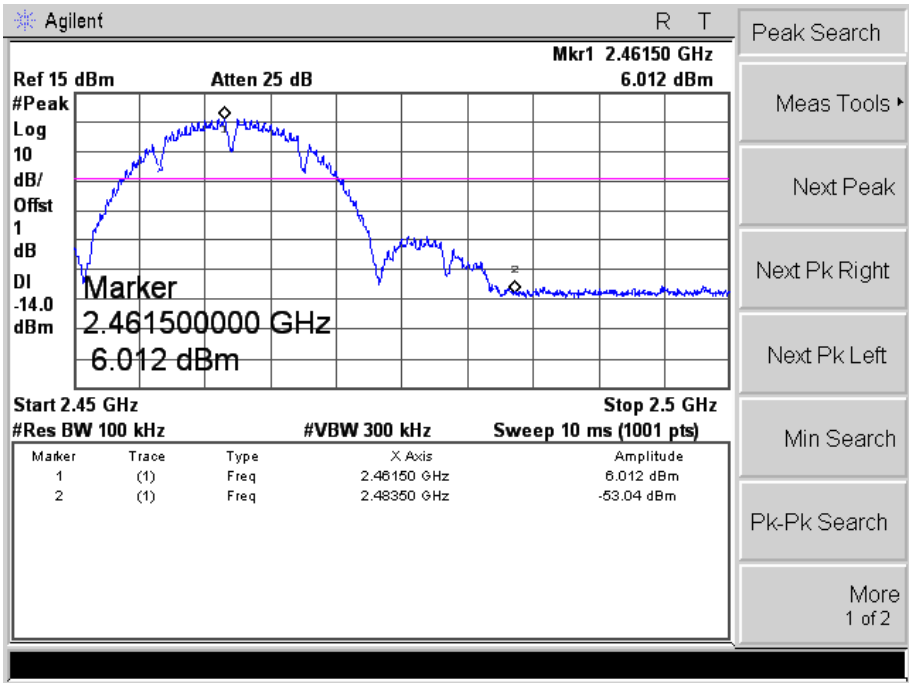


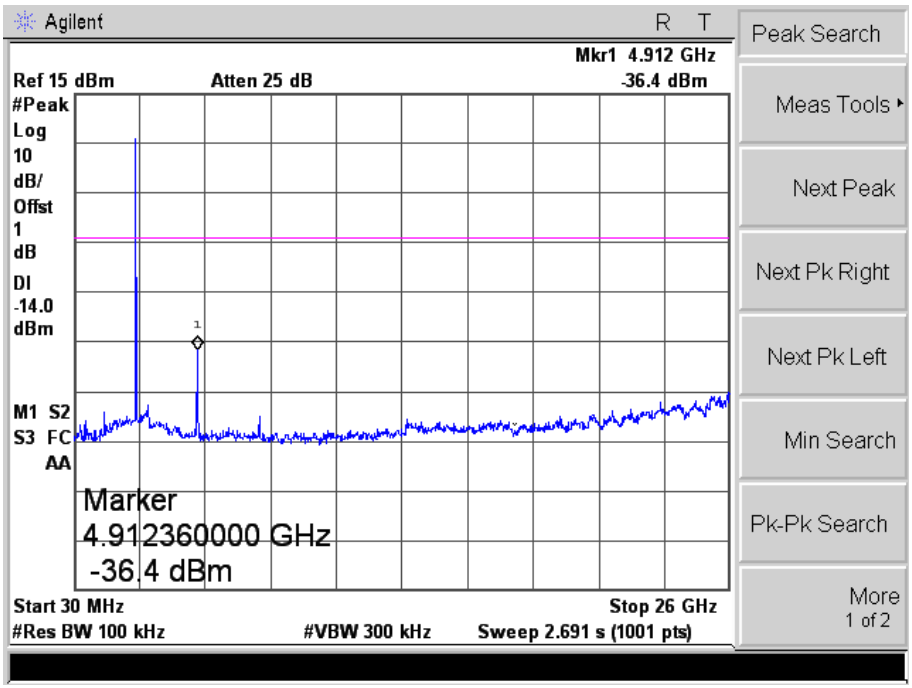
Middle Channel



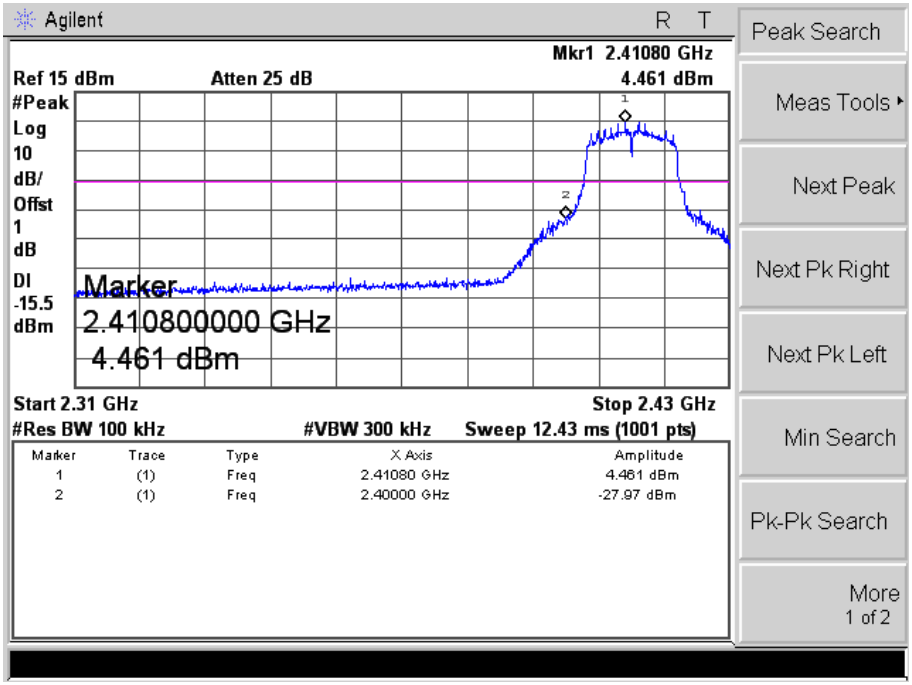


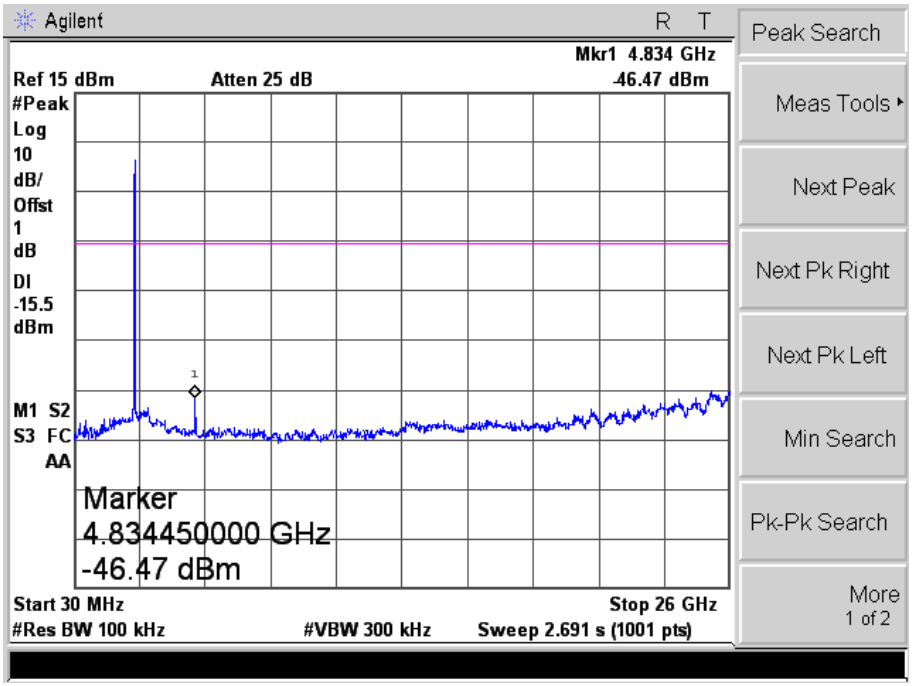
High Channel



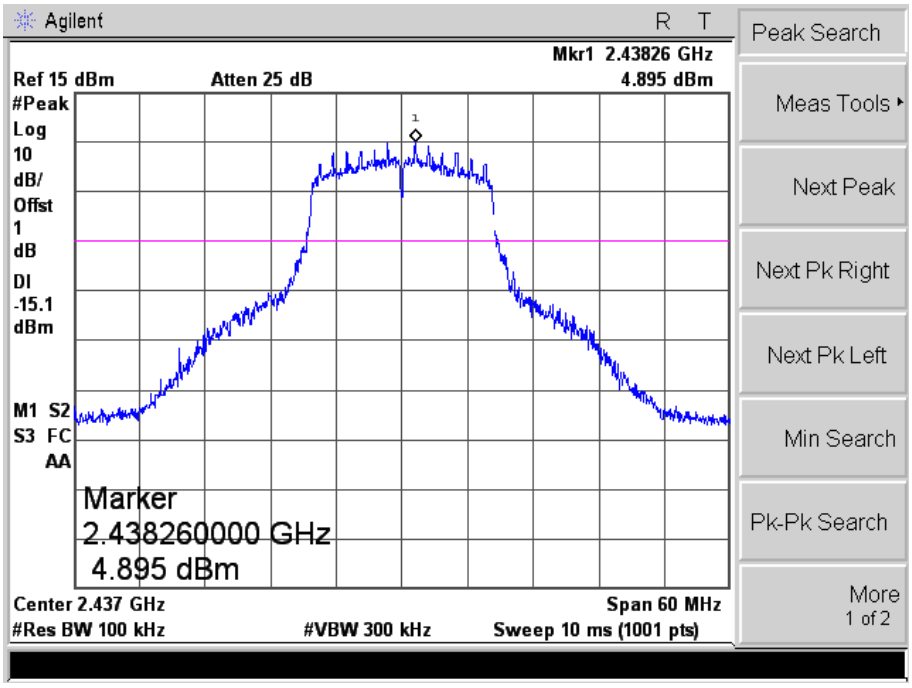


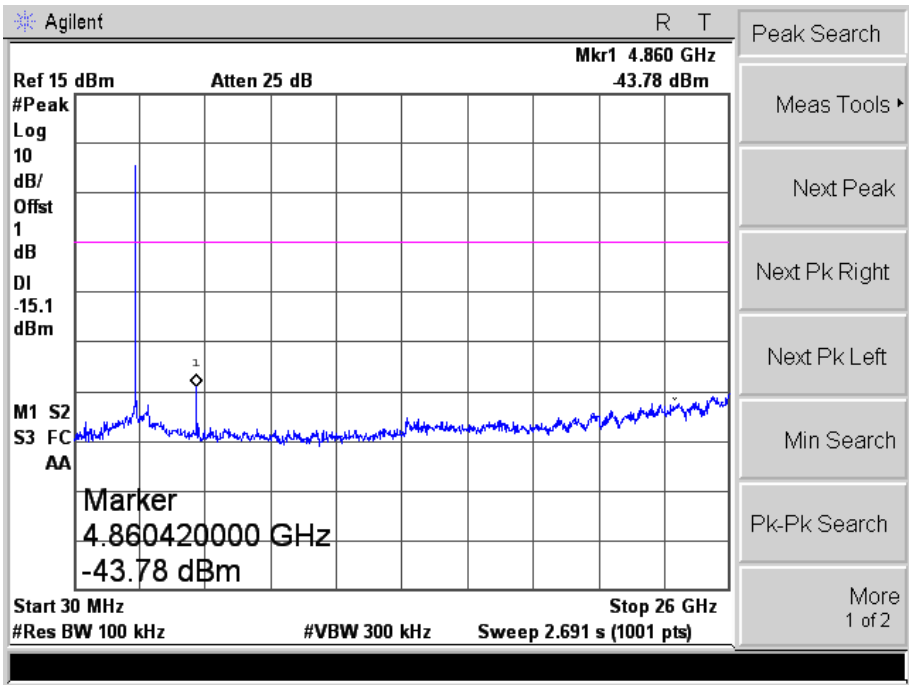
802.11g
Low Channel



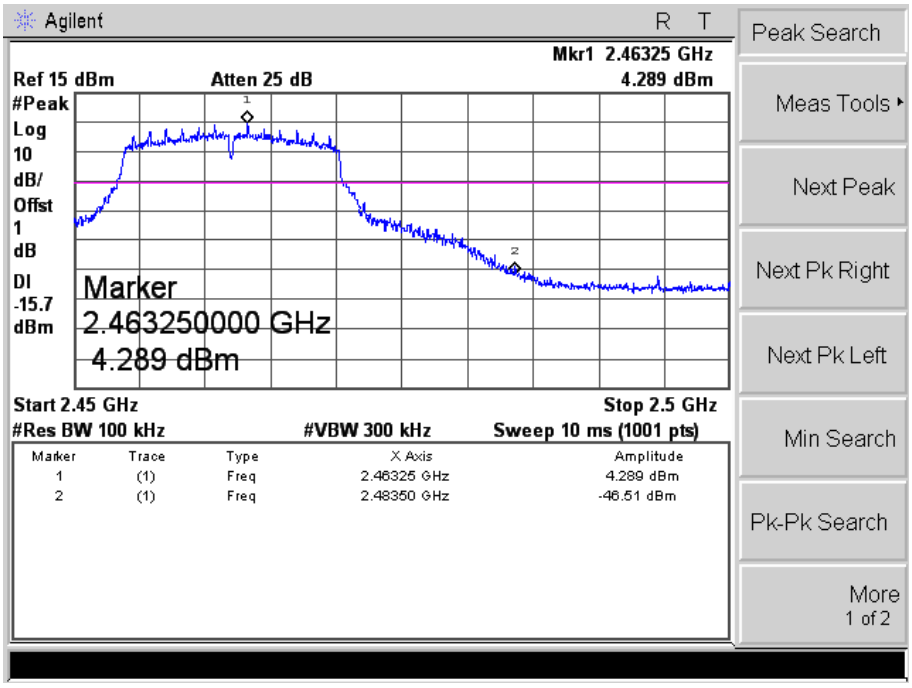


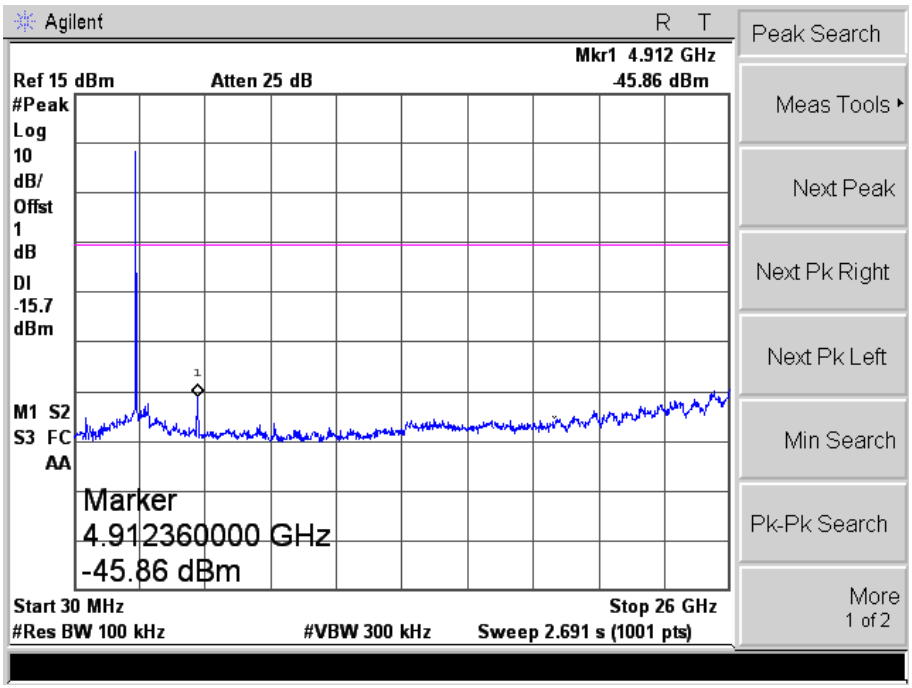
Middle Channel



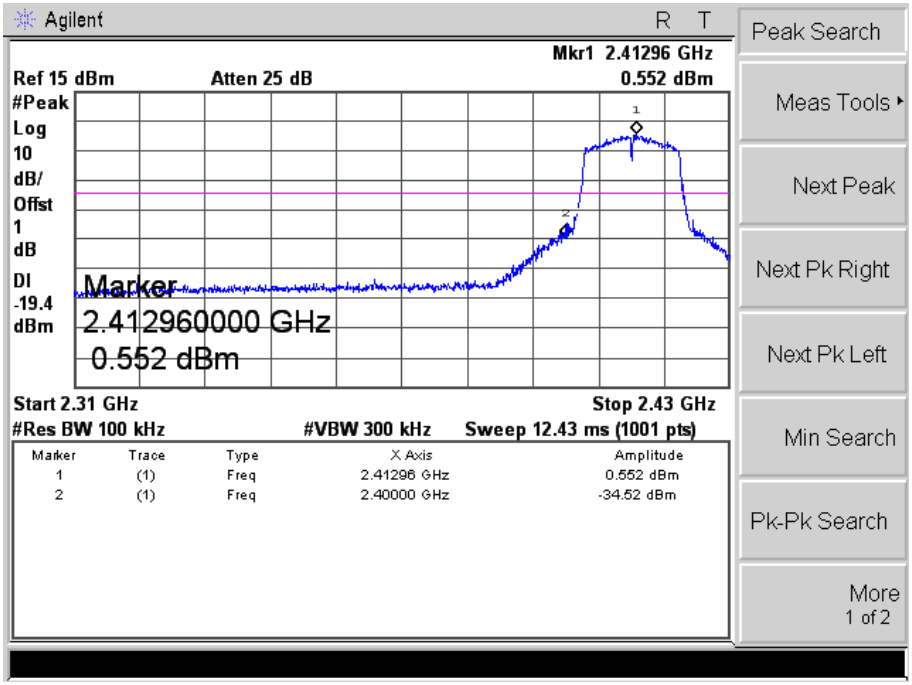


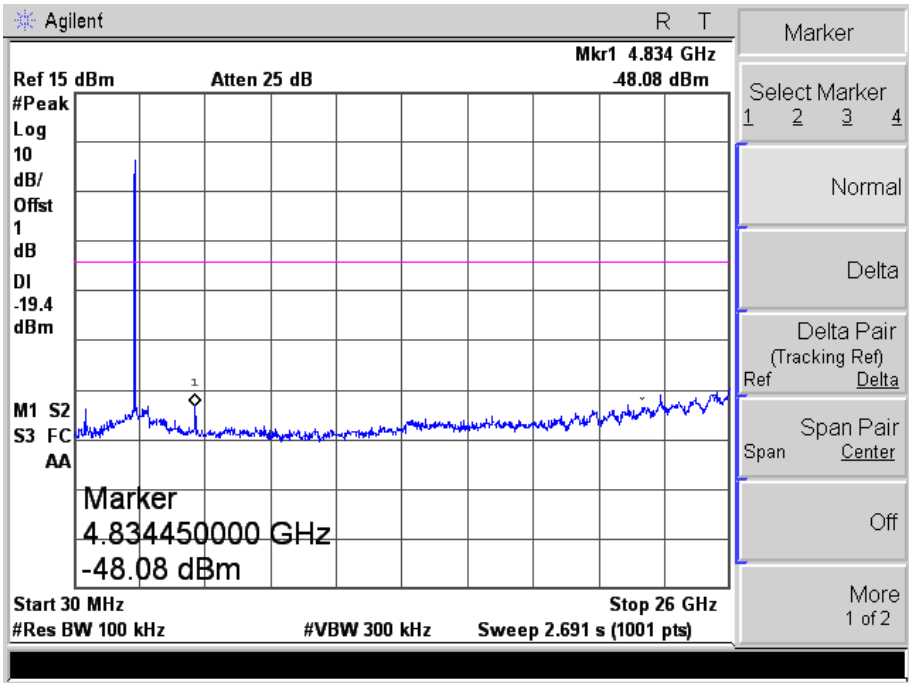
High Channel



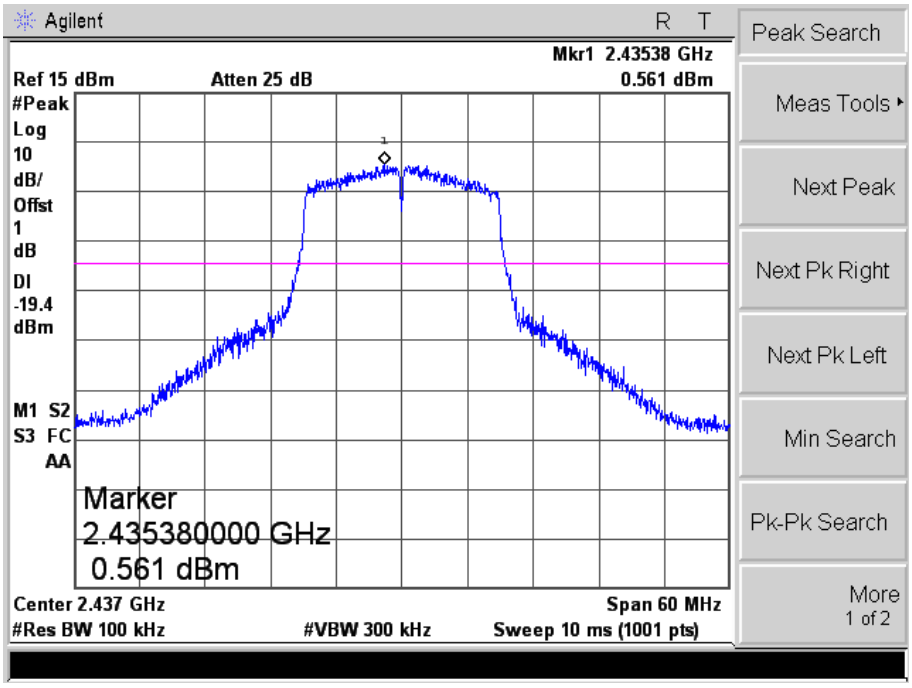


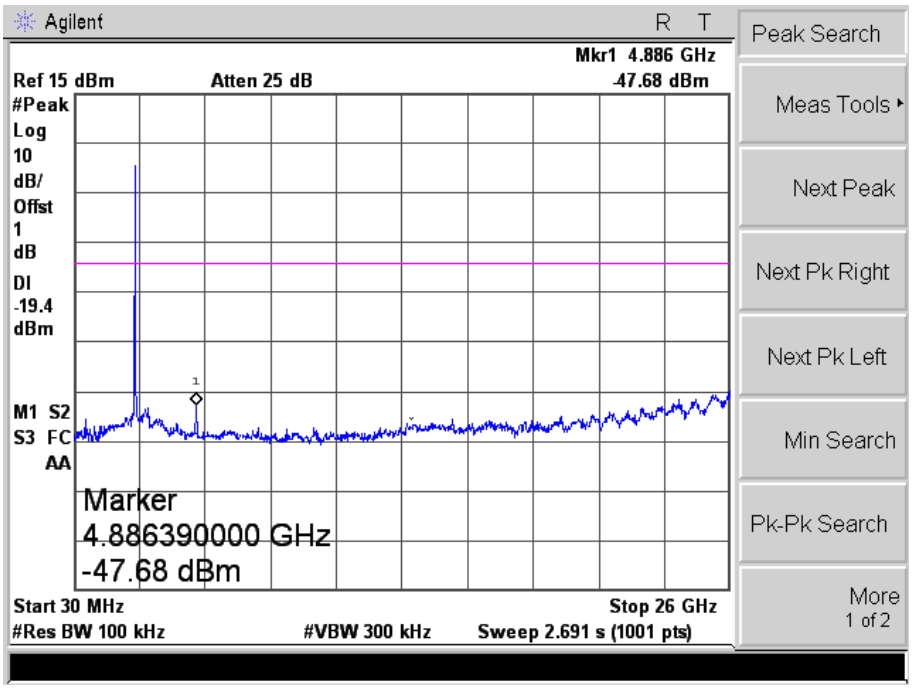
11n-HT20
Low Channel



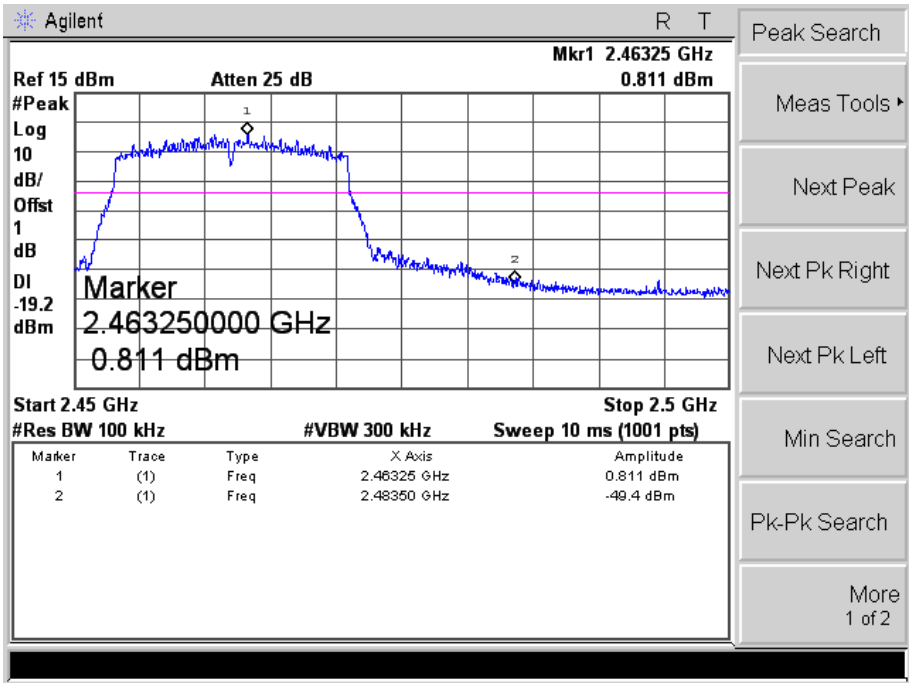


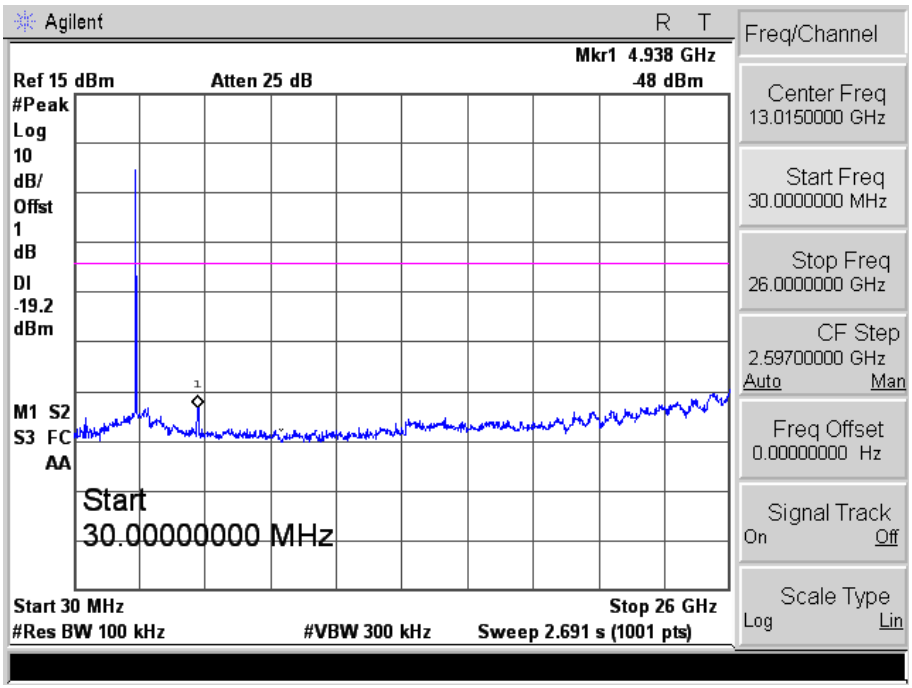
Middle Channel



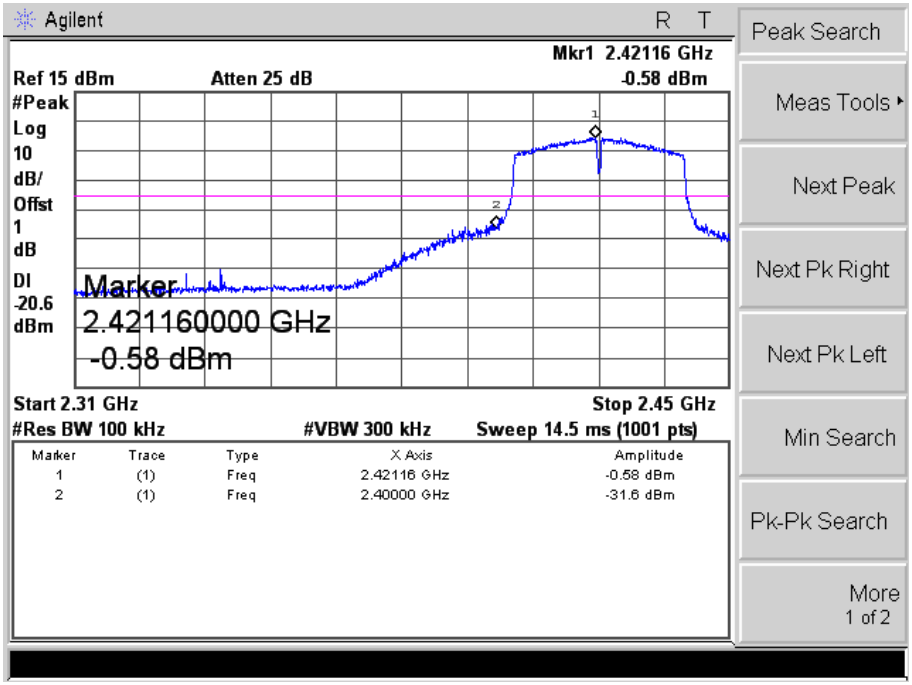


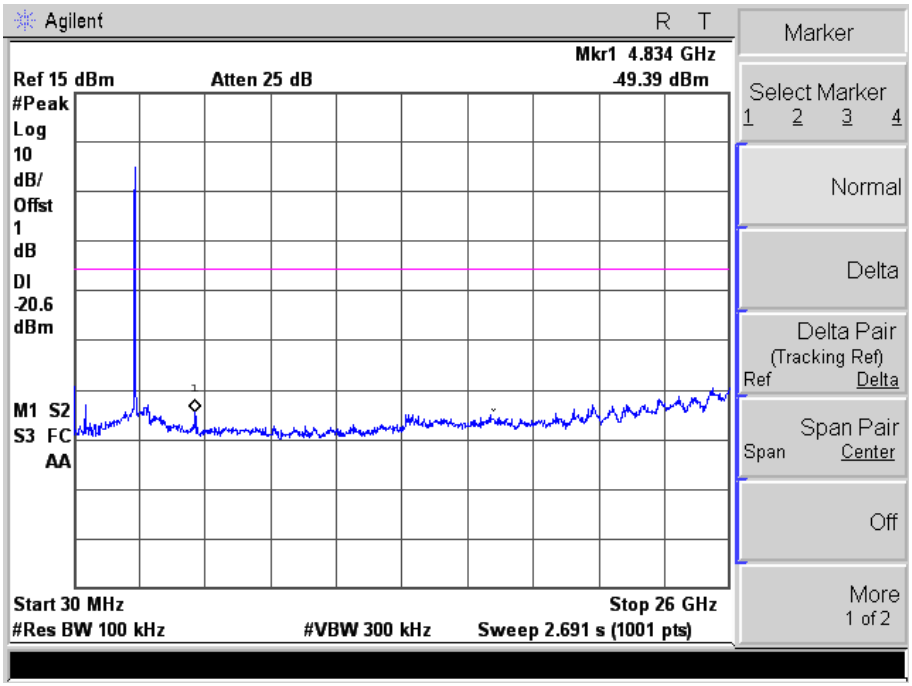
High Channel



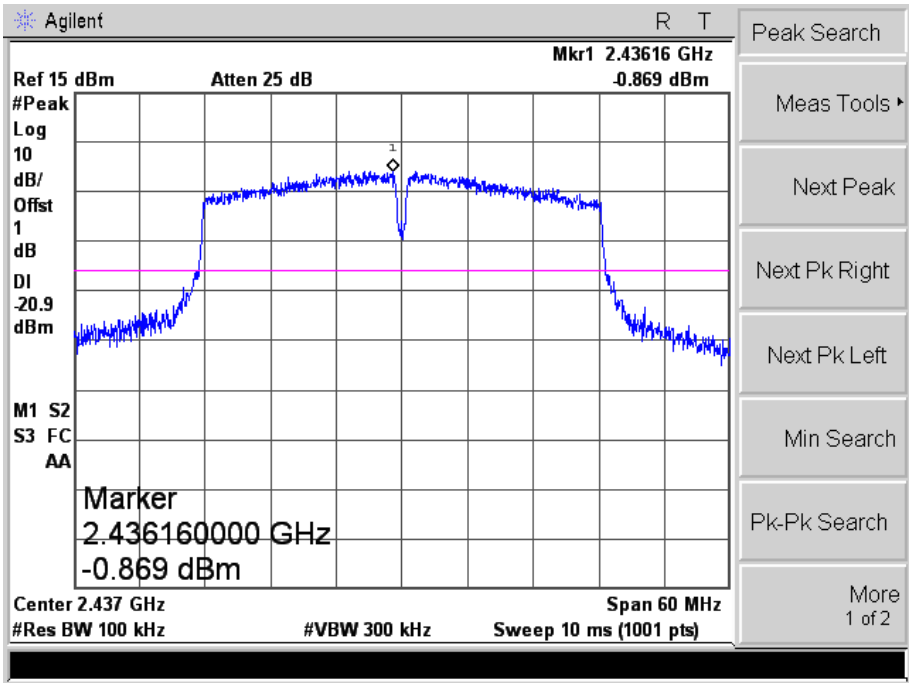


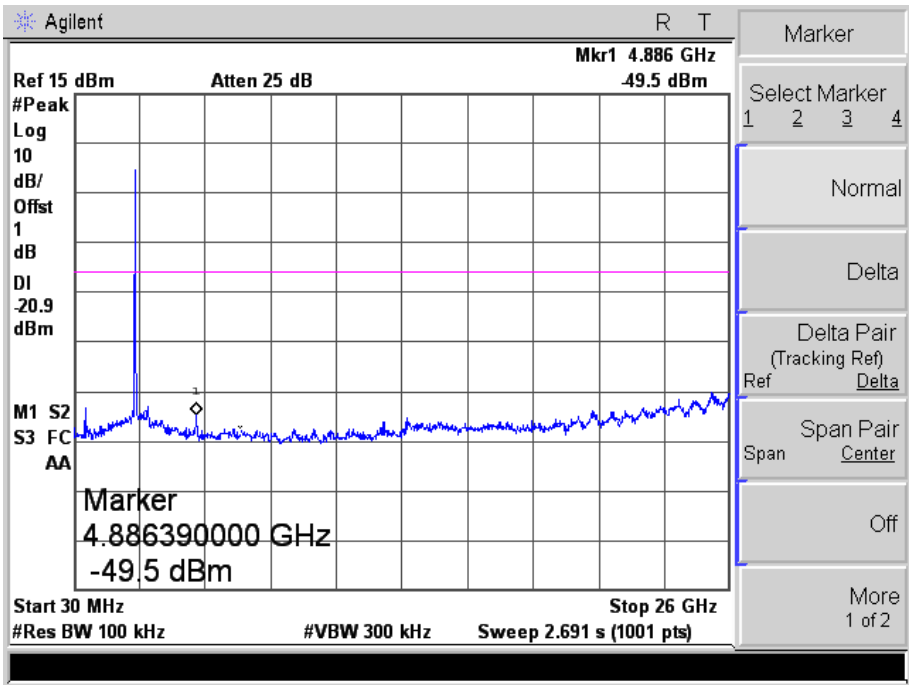
11n-HT40
Low Channel



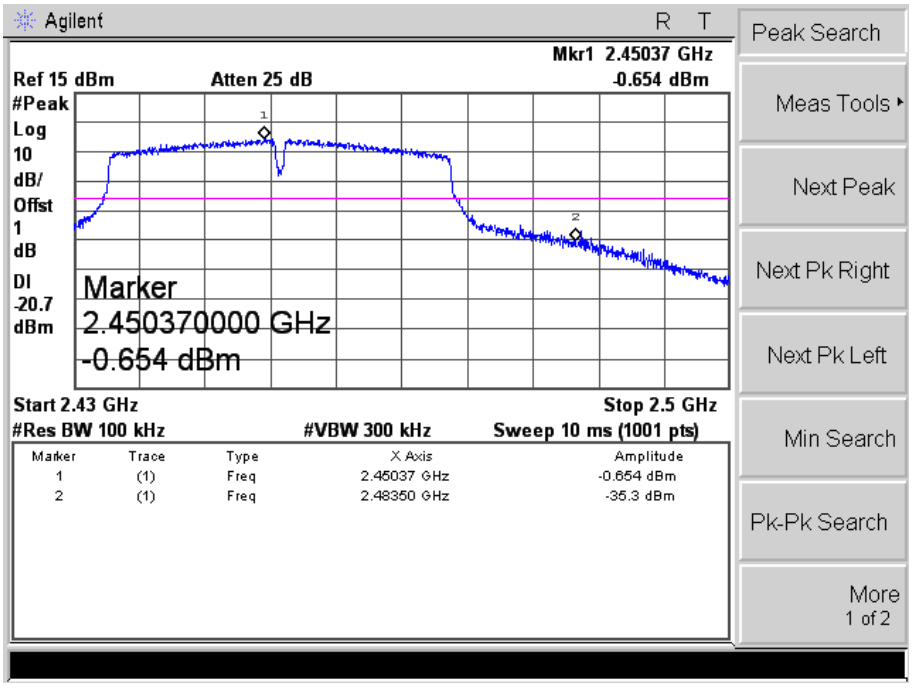


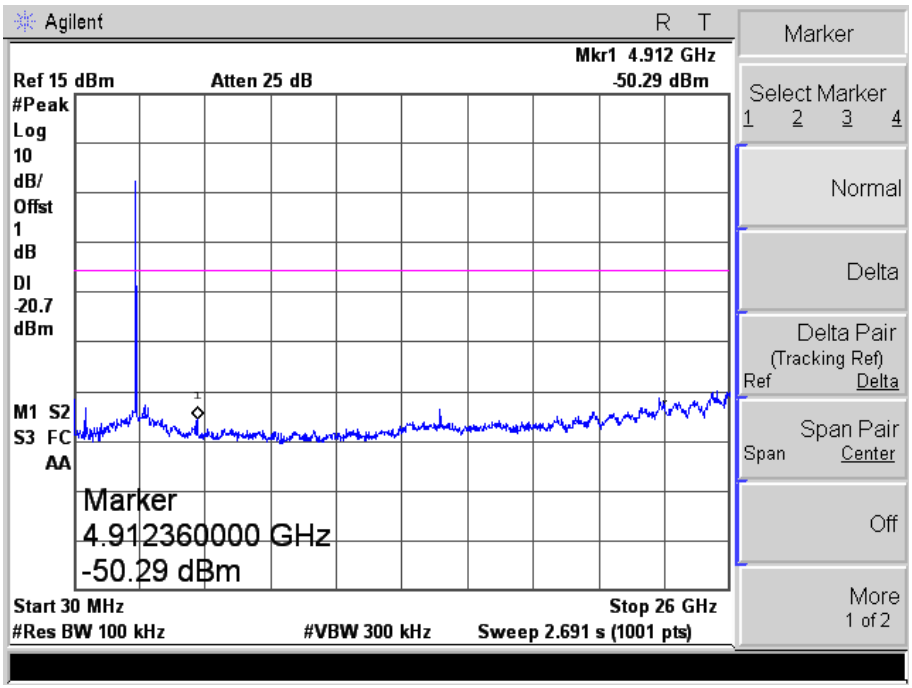
Middle Channel



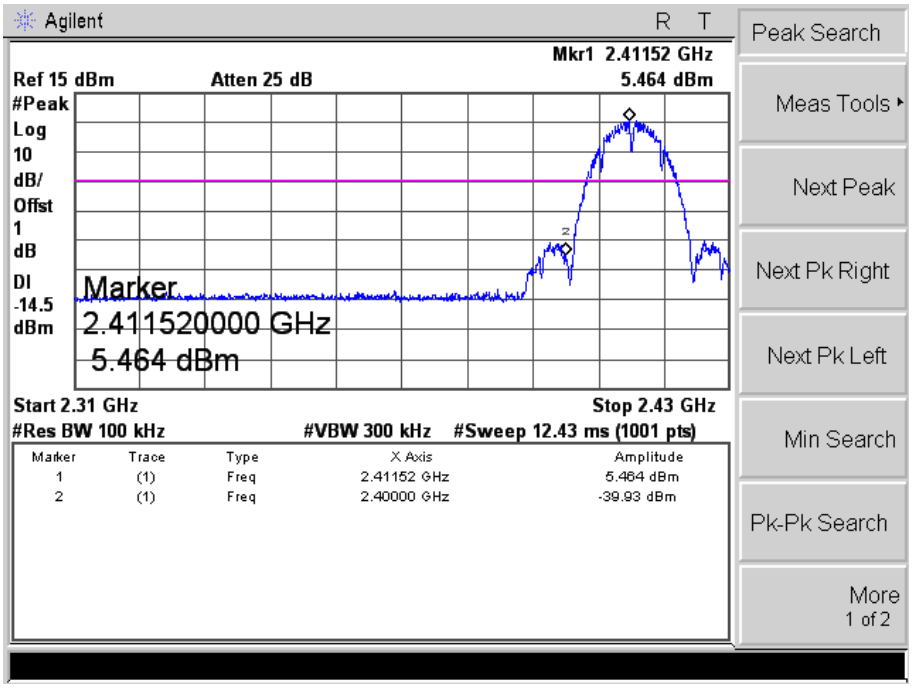


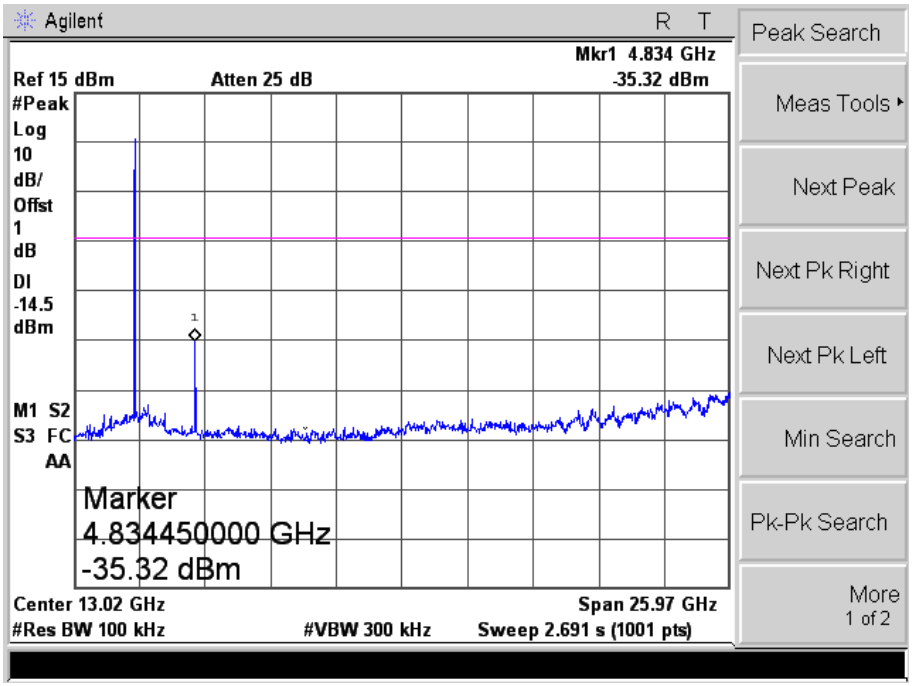
High Channel



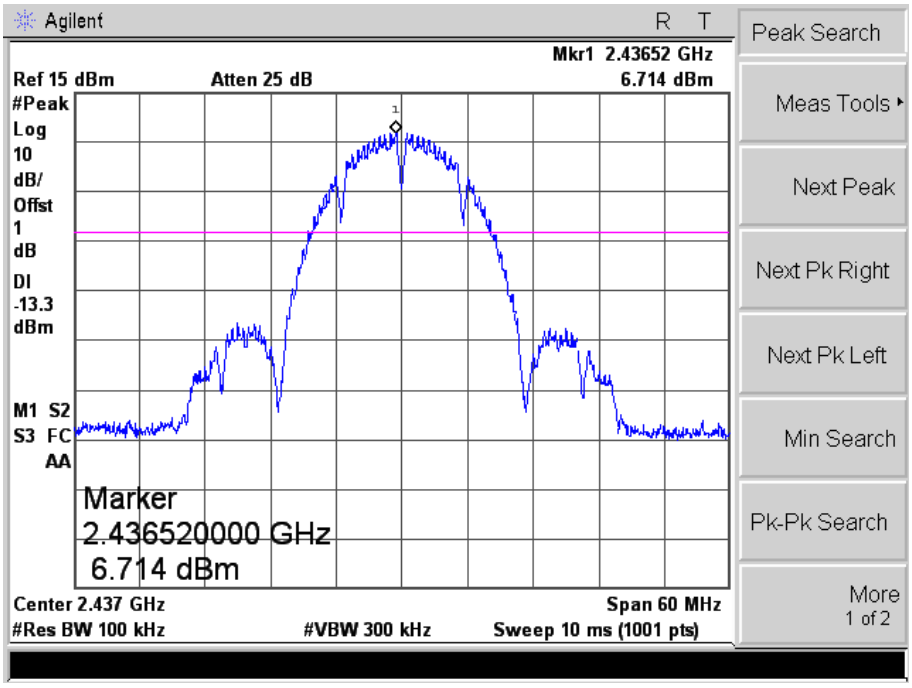


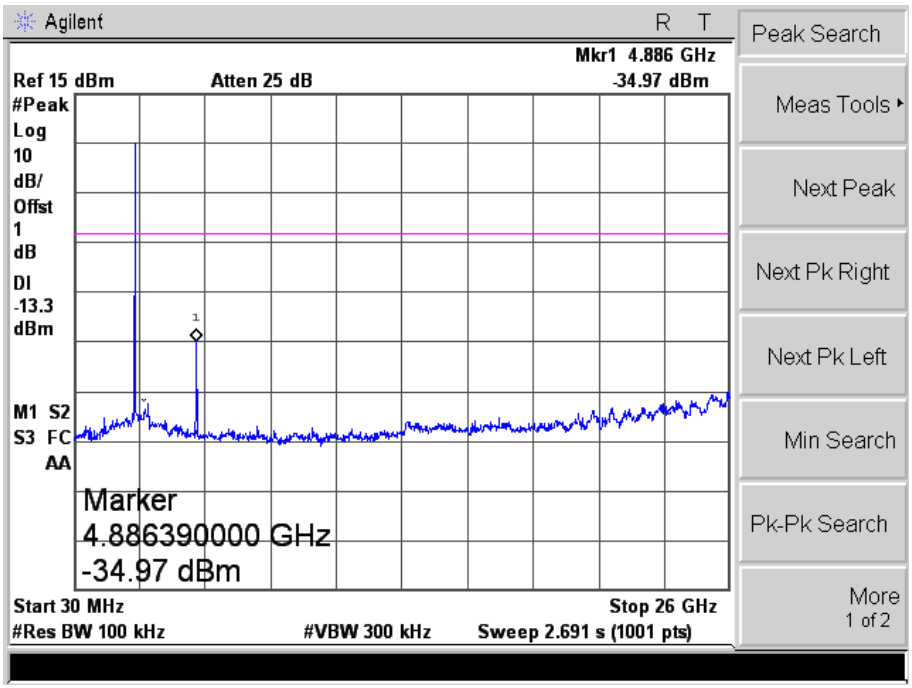
Ant. 2
802.11b
Low Channel



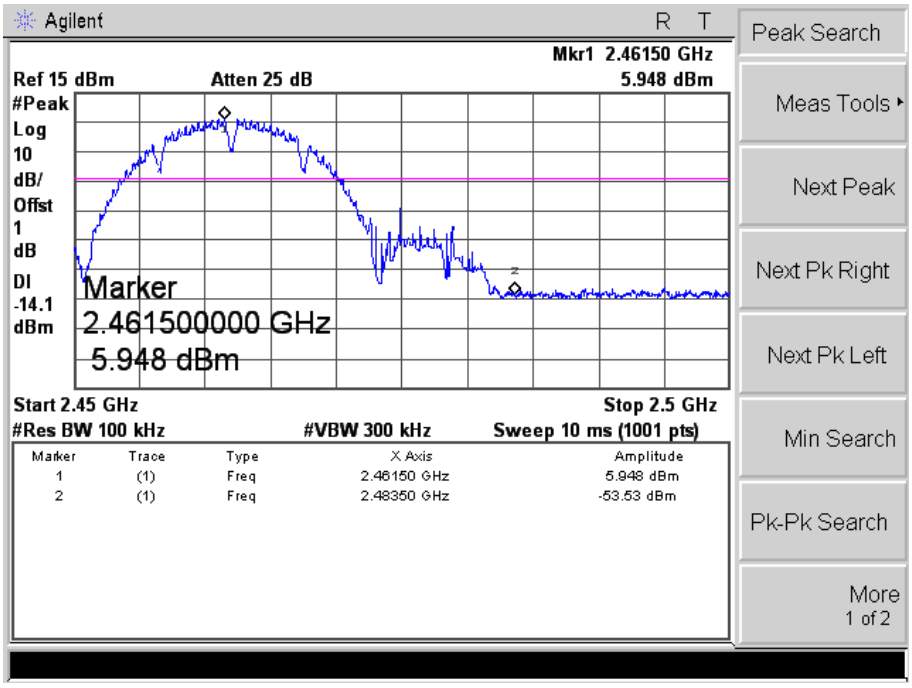


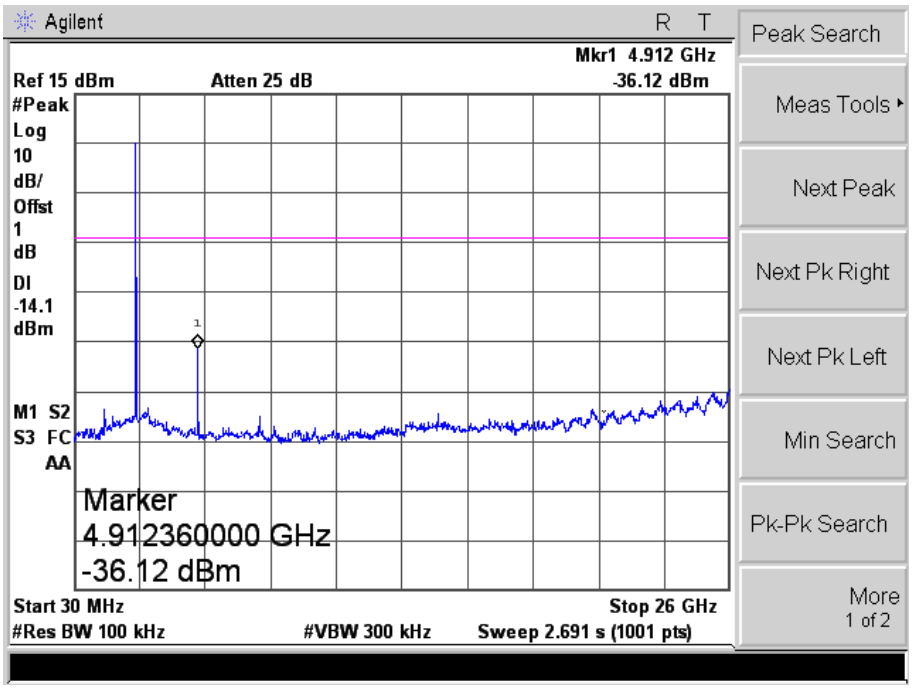
Middle Channel



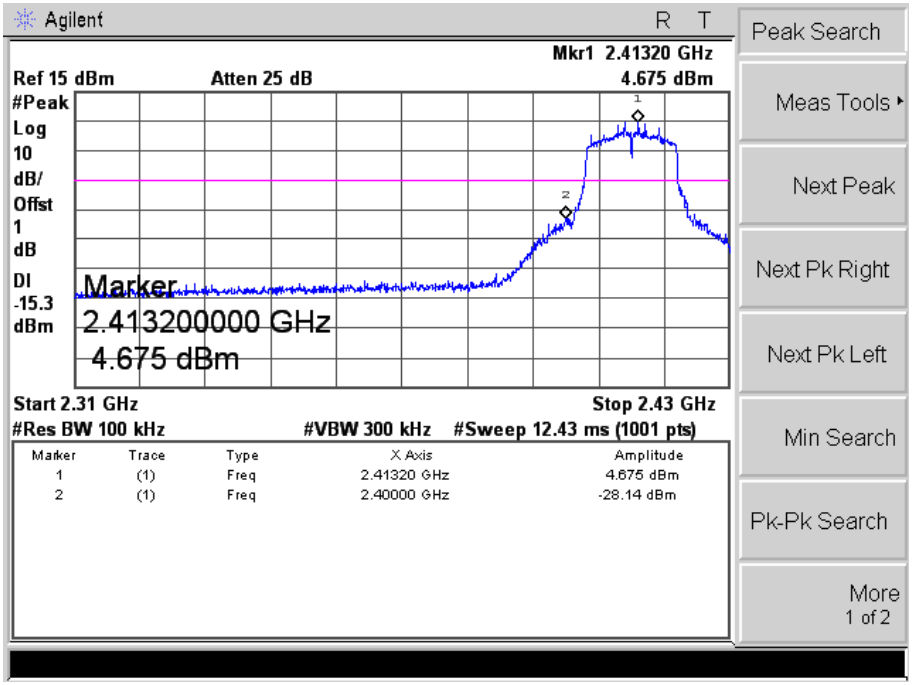


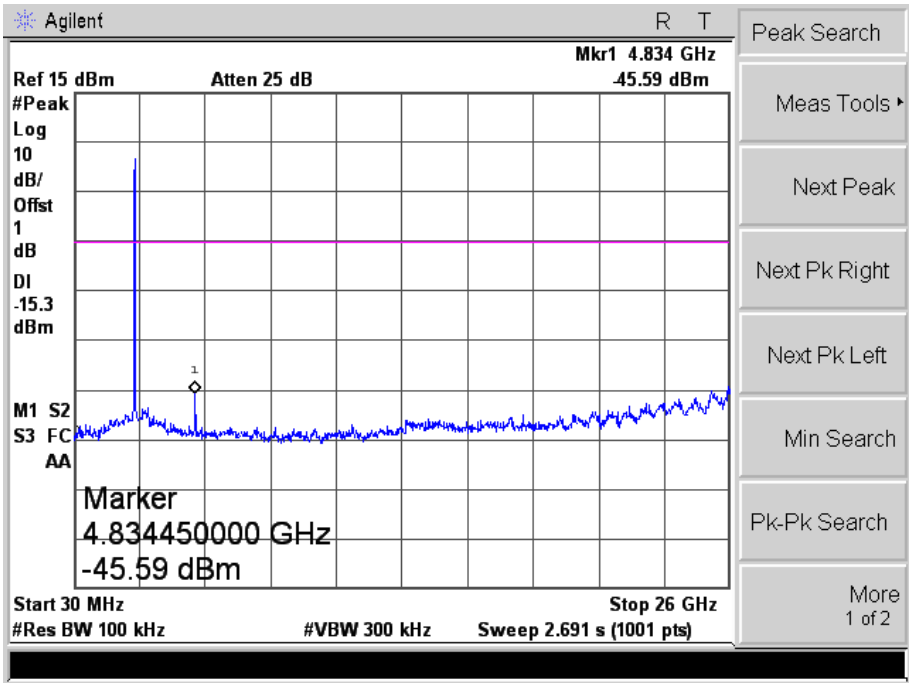
High Channel



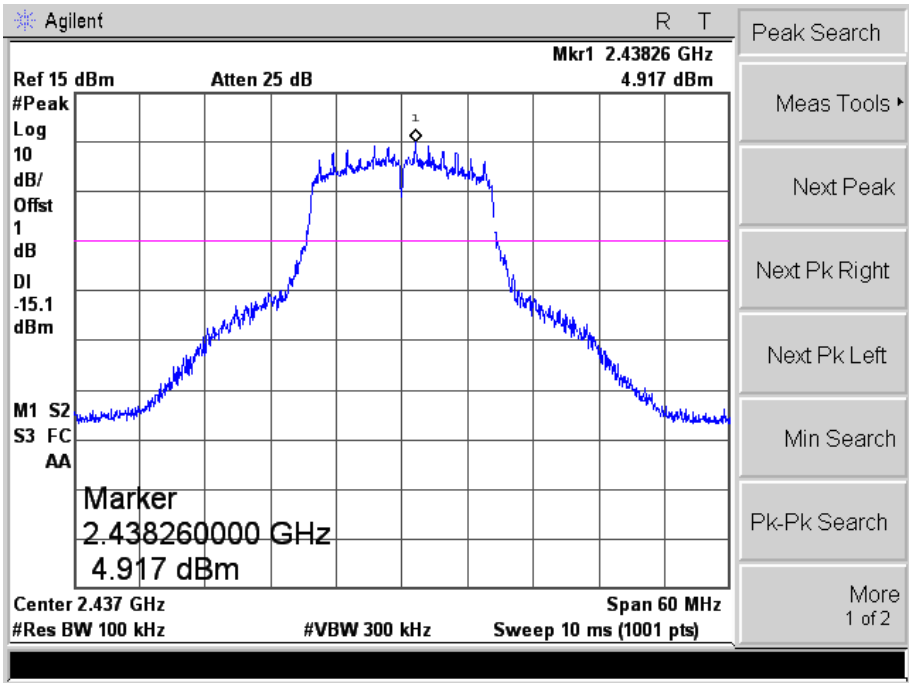


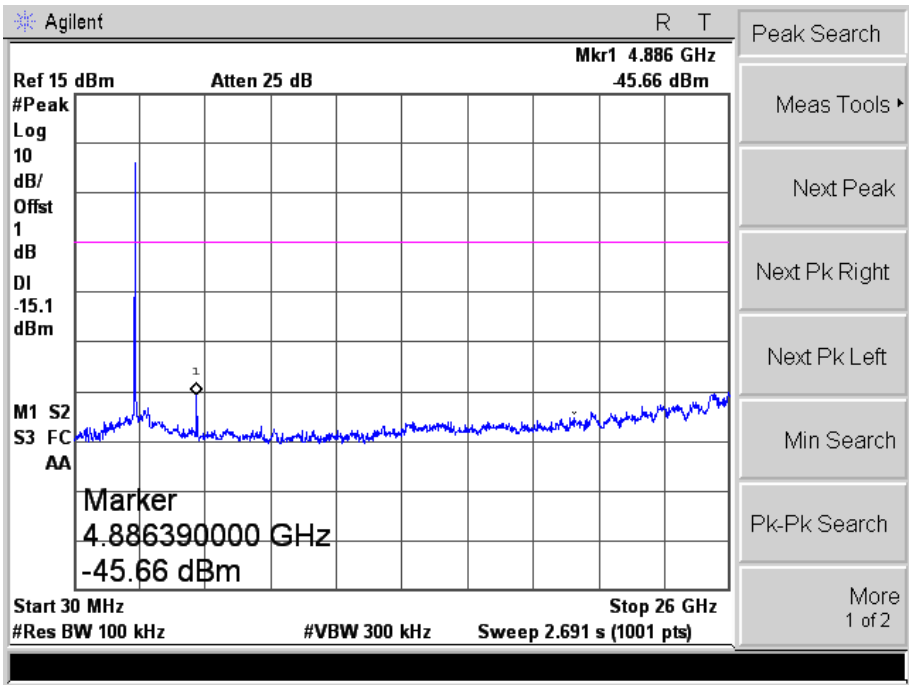
802.11g
Low Channel



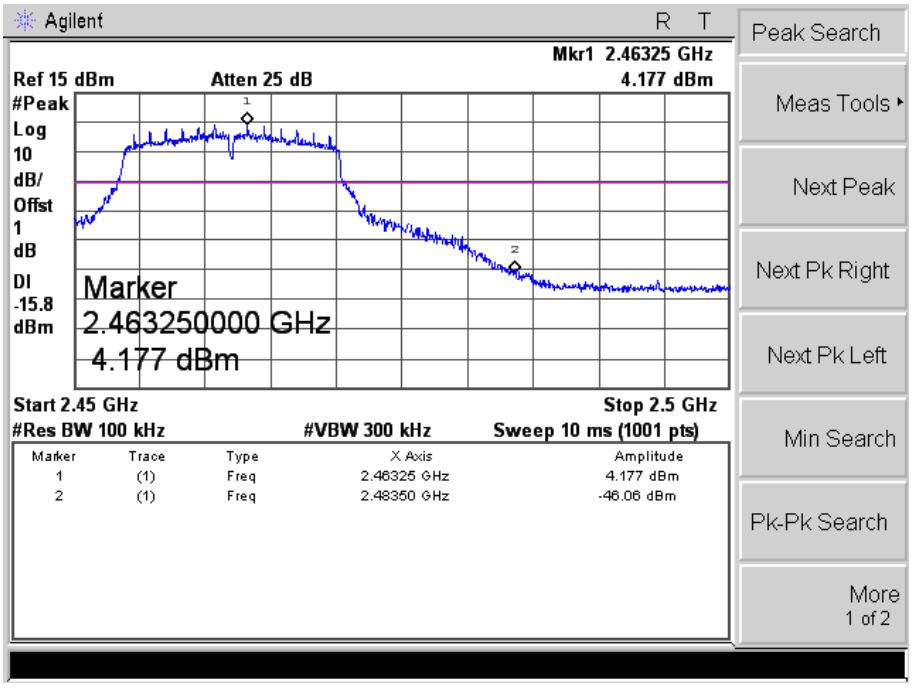


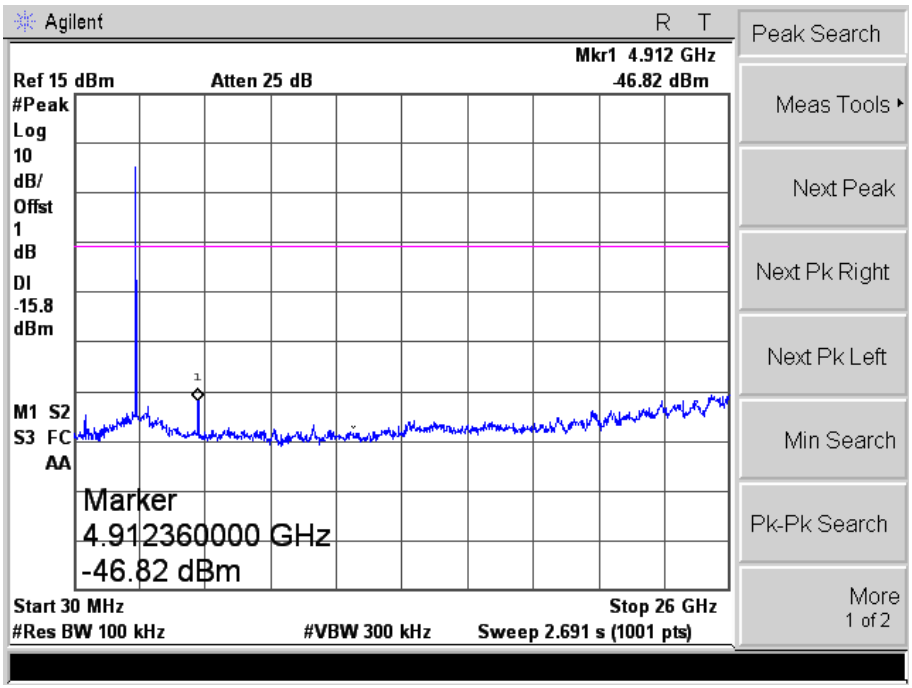
Middle Channel



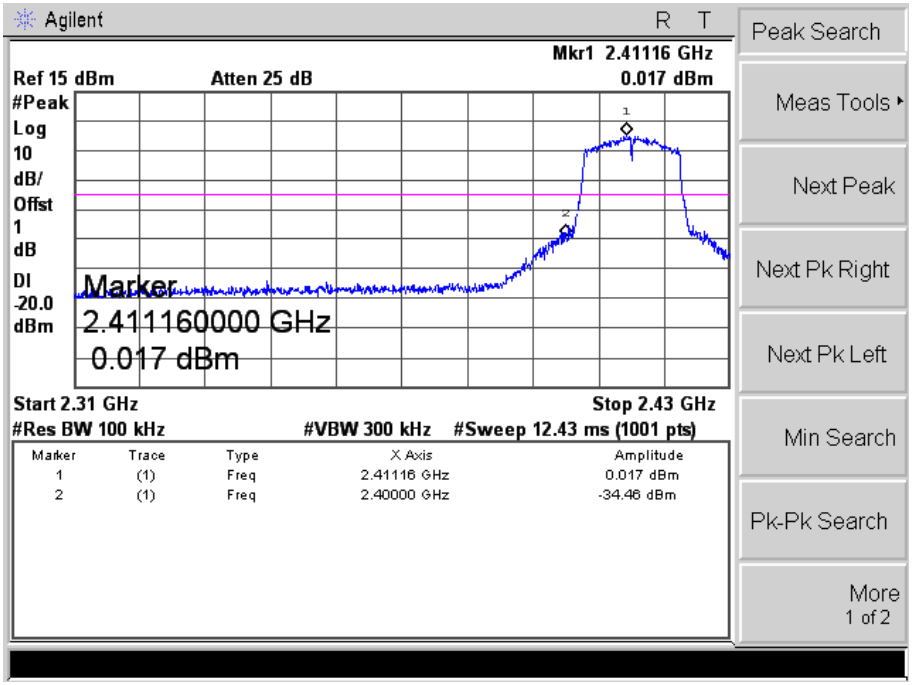


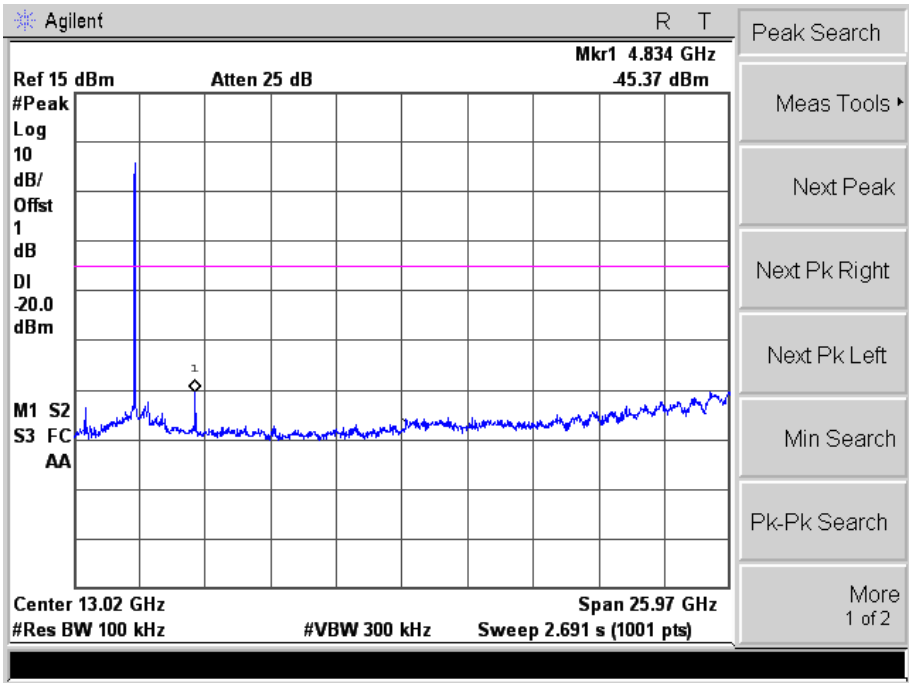
High Channel



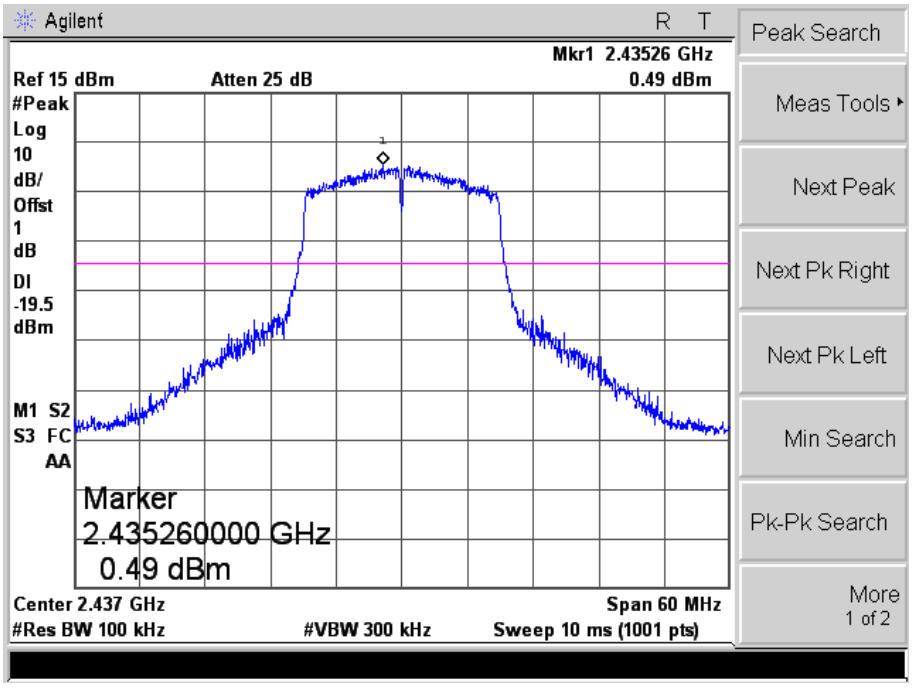


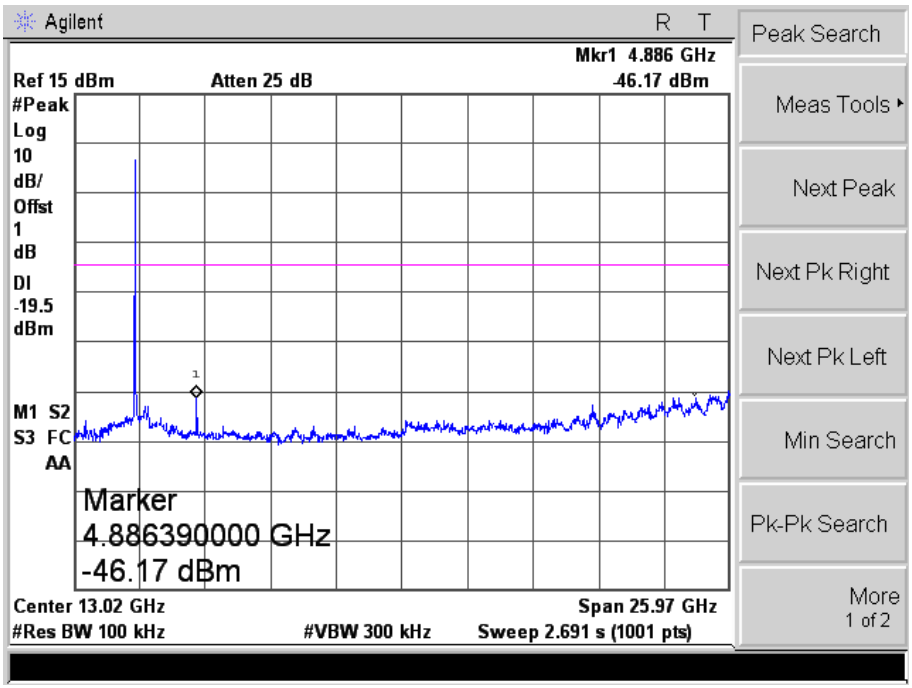
802.11n-HT20
Low Channel



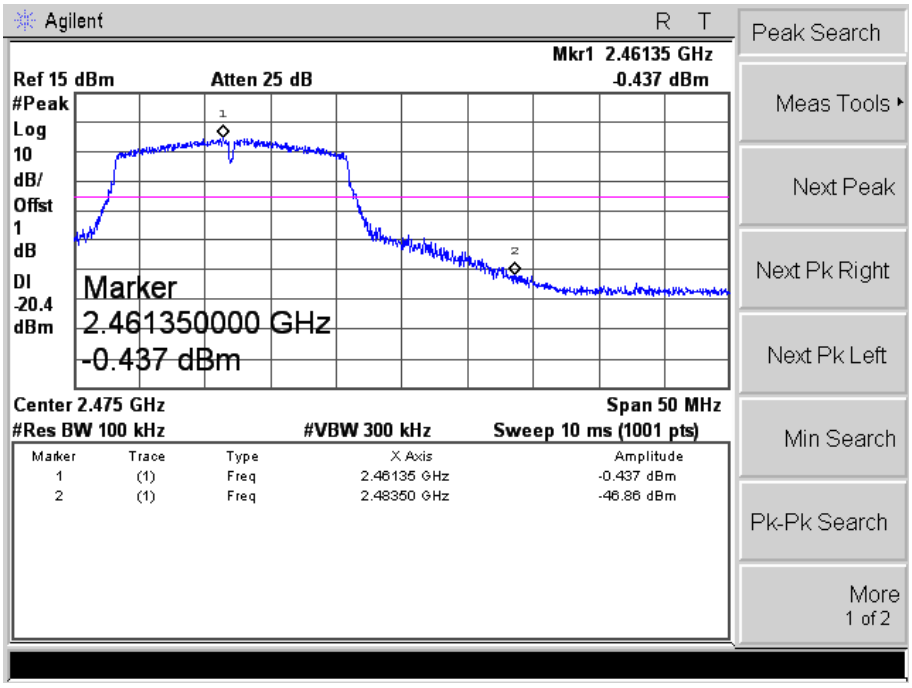


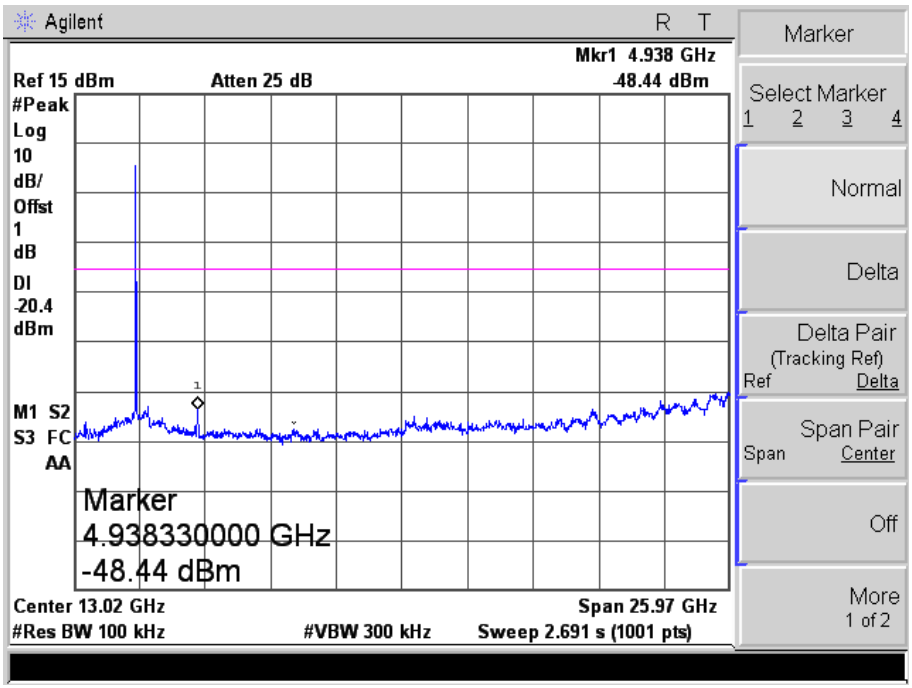
Middle Channel



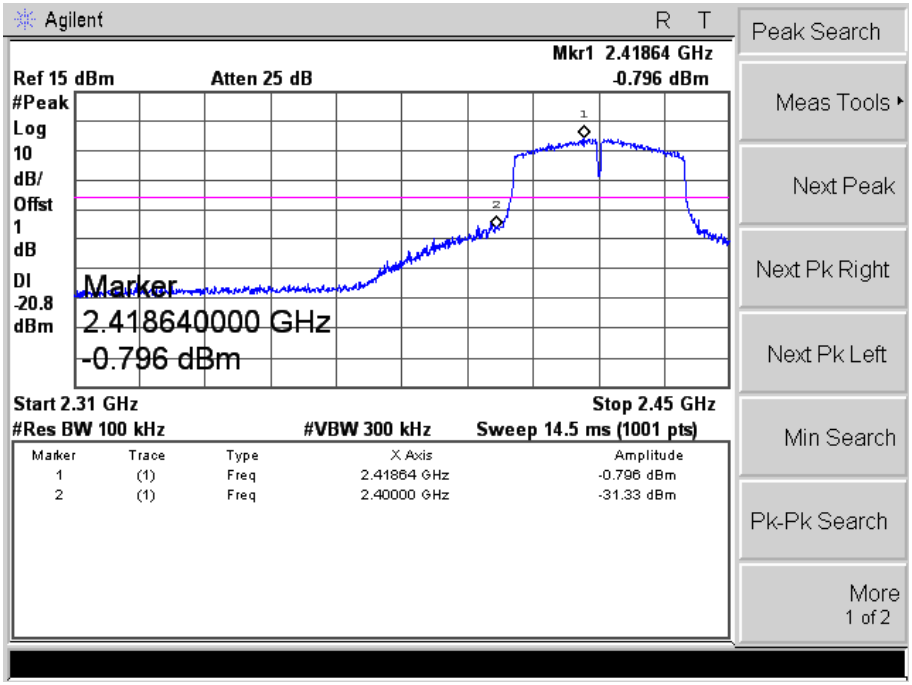


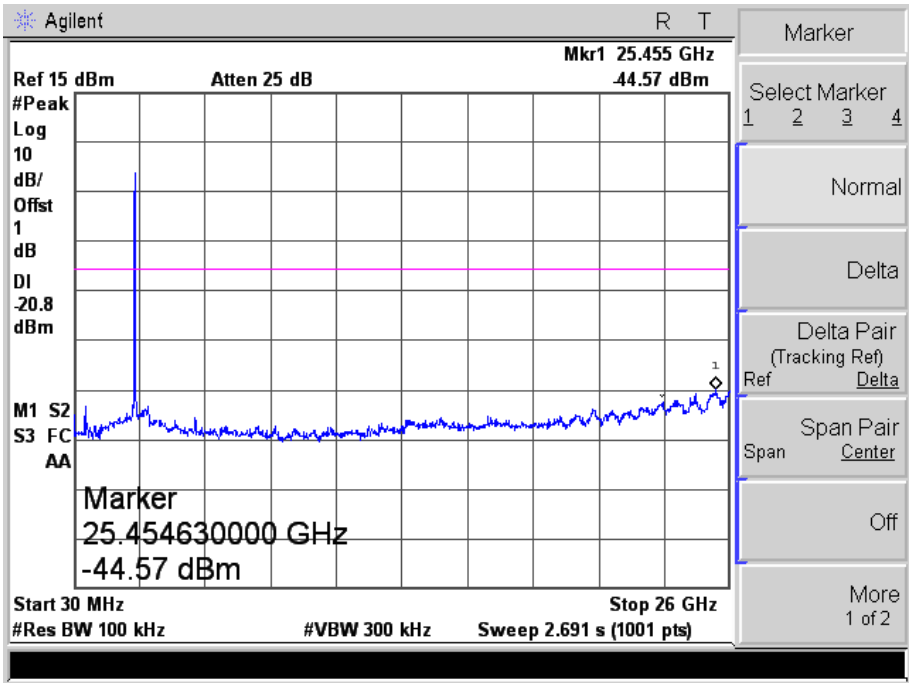
High Channel



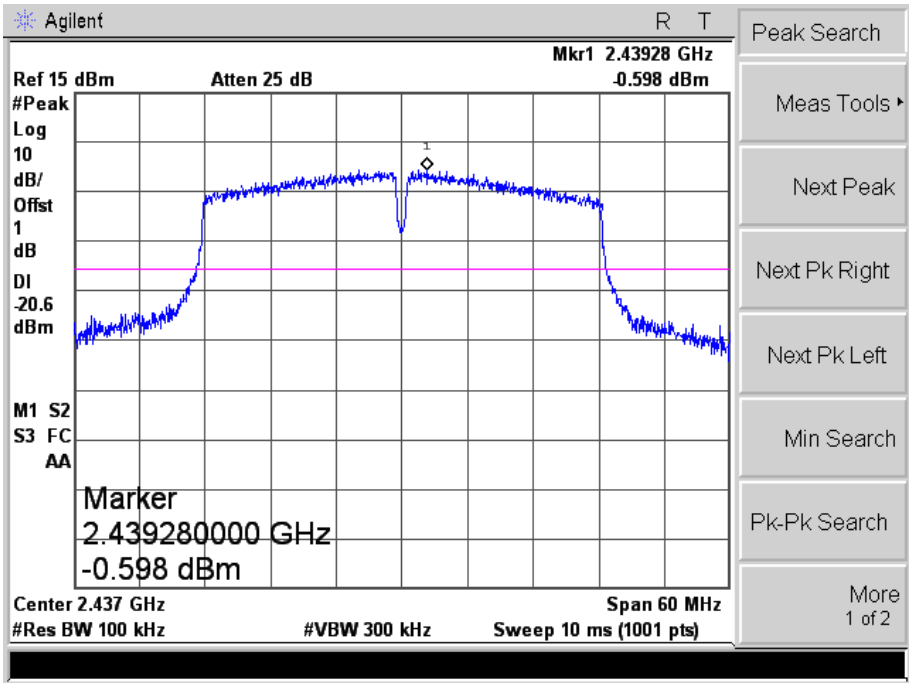


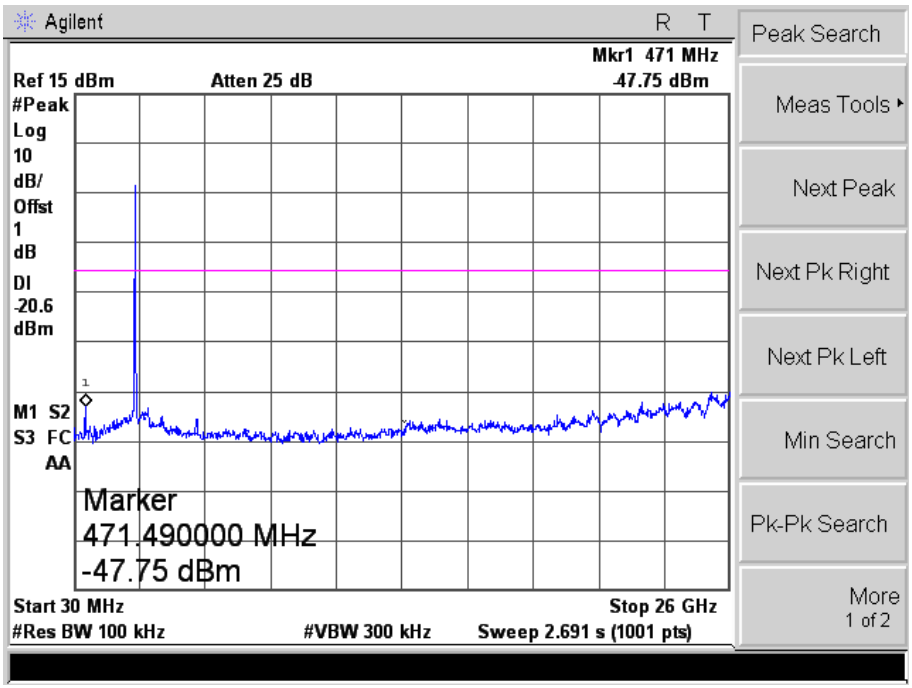
802.11n-HT40
Low Channel



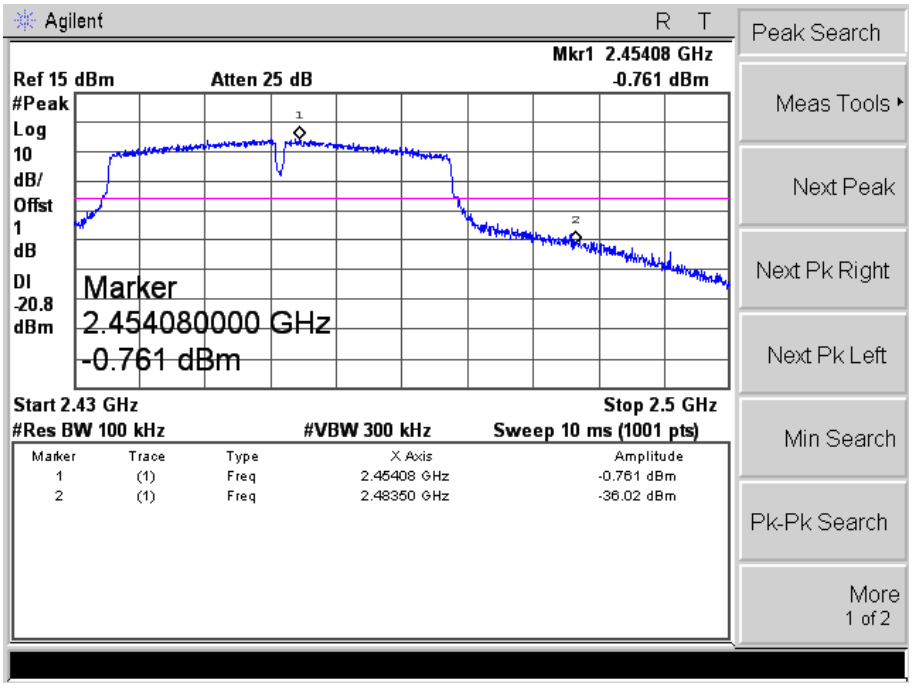


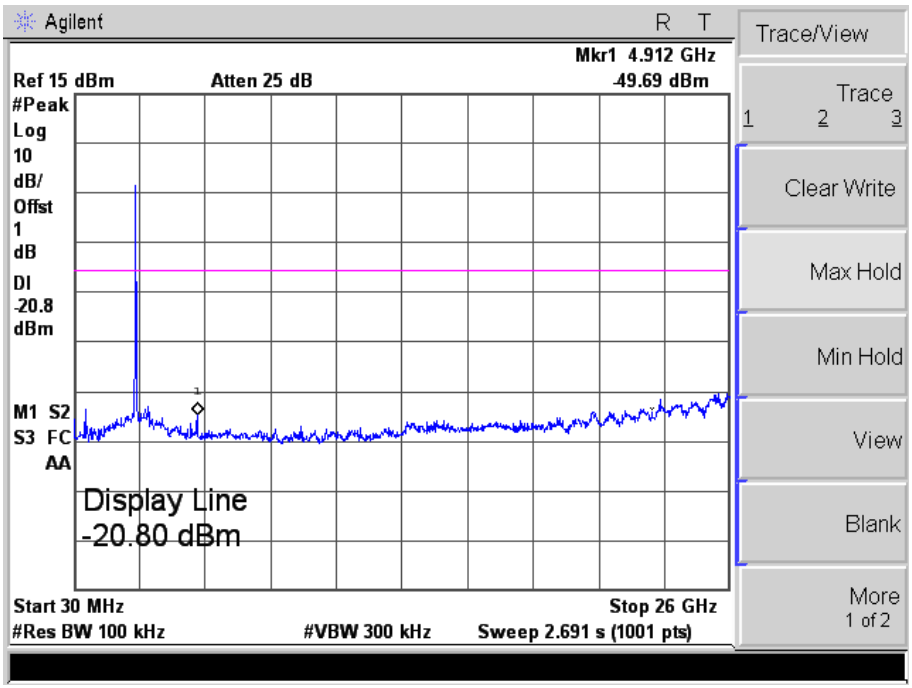
Middle Channel



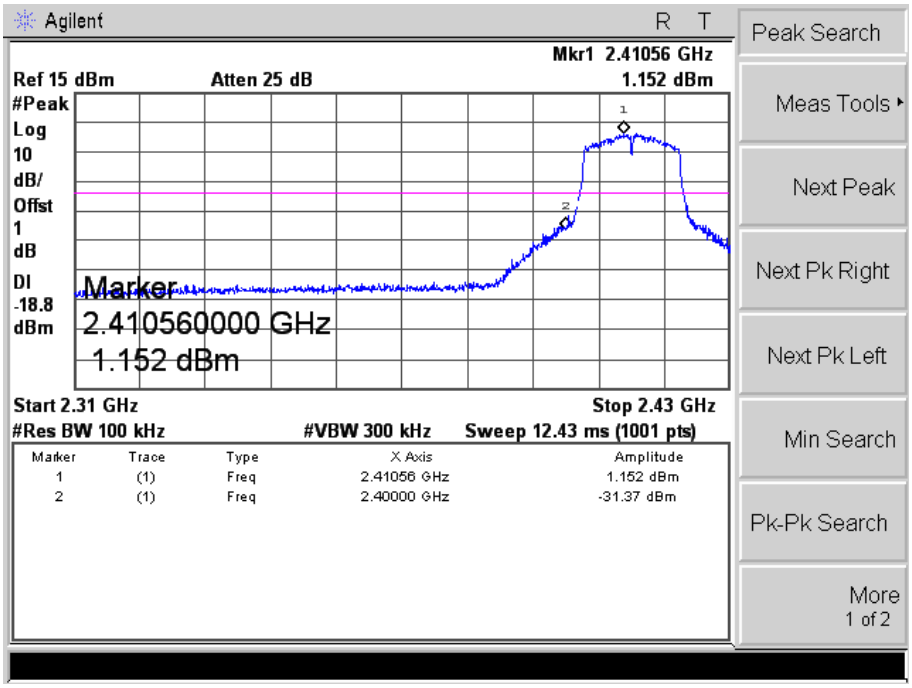


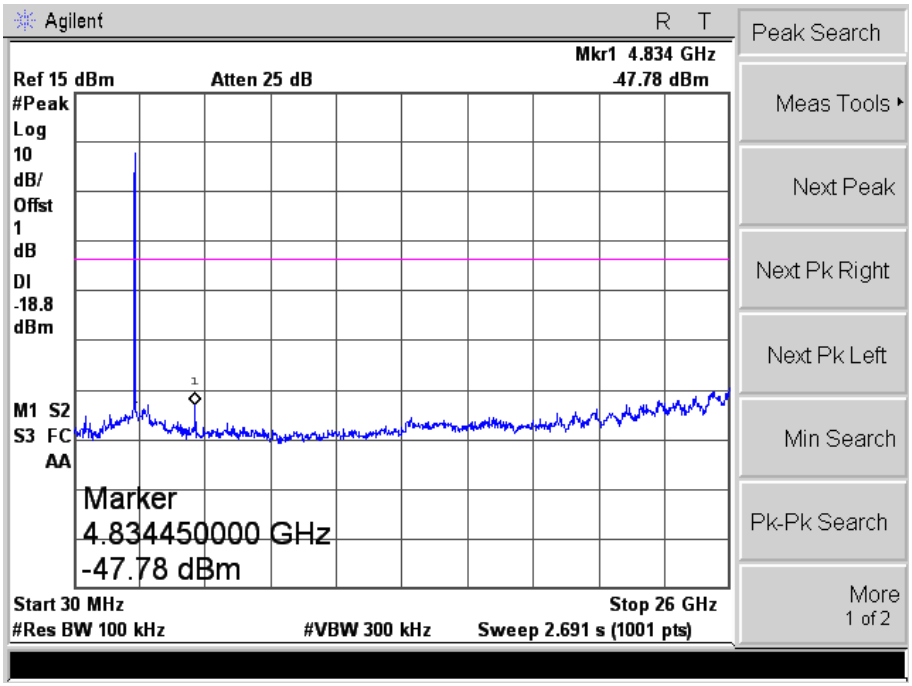
High Channel



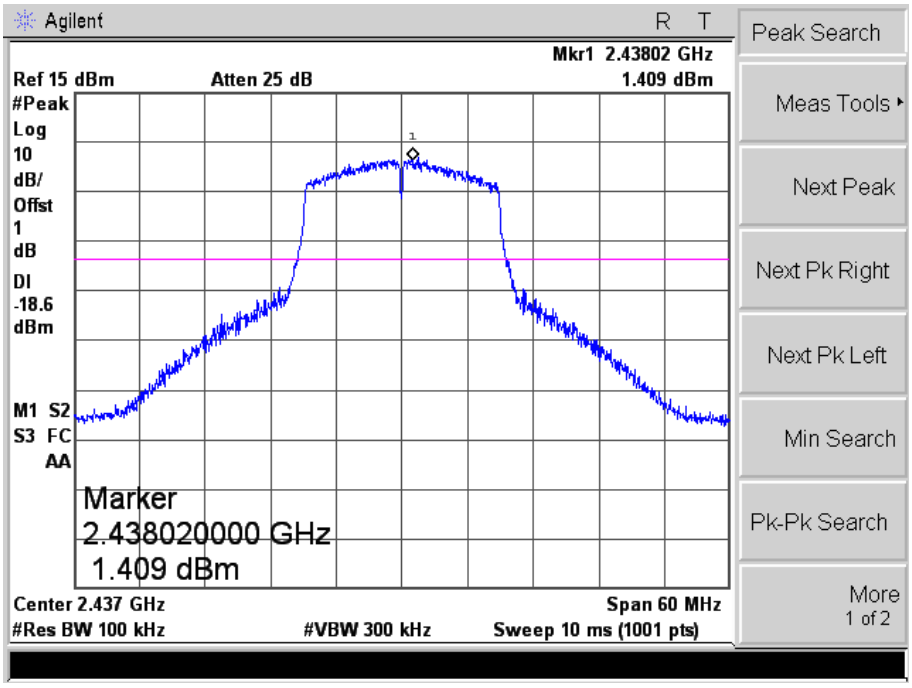


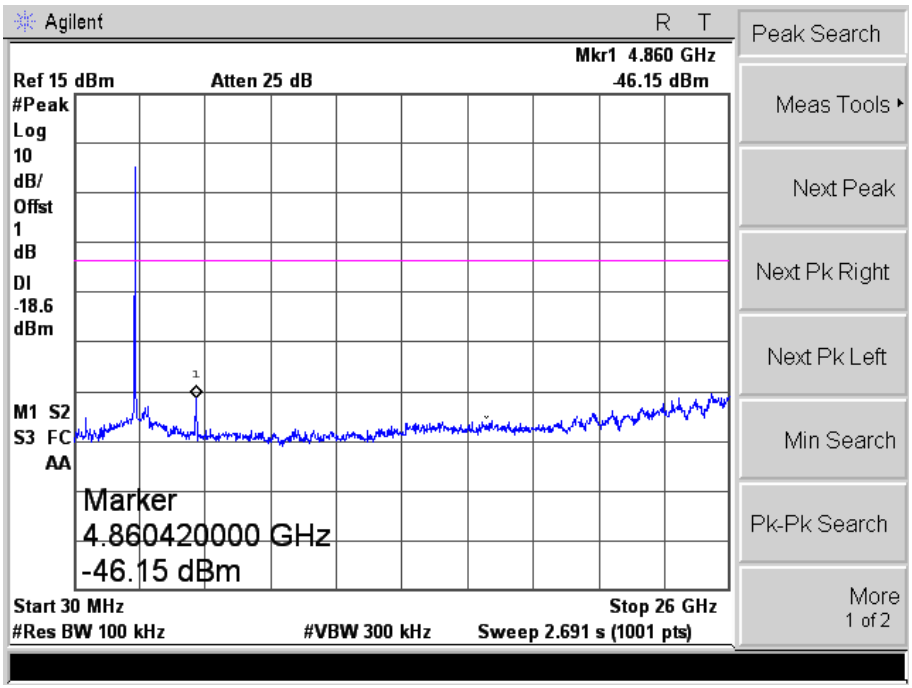
Ant. 1&2
802.11n-HT20
Low Channel



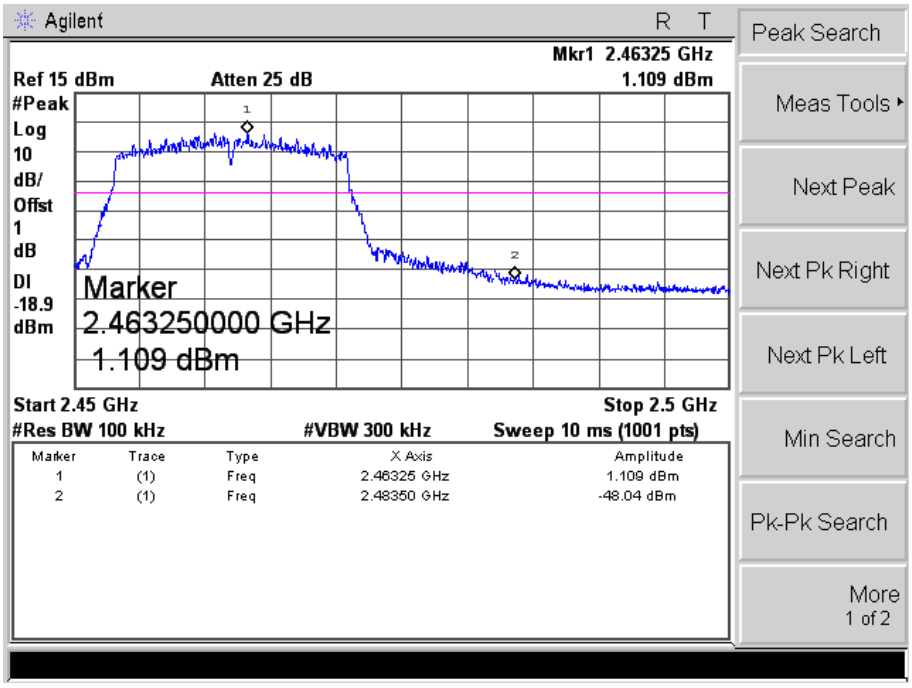


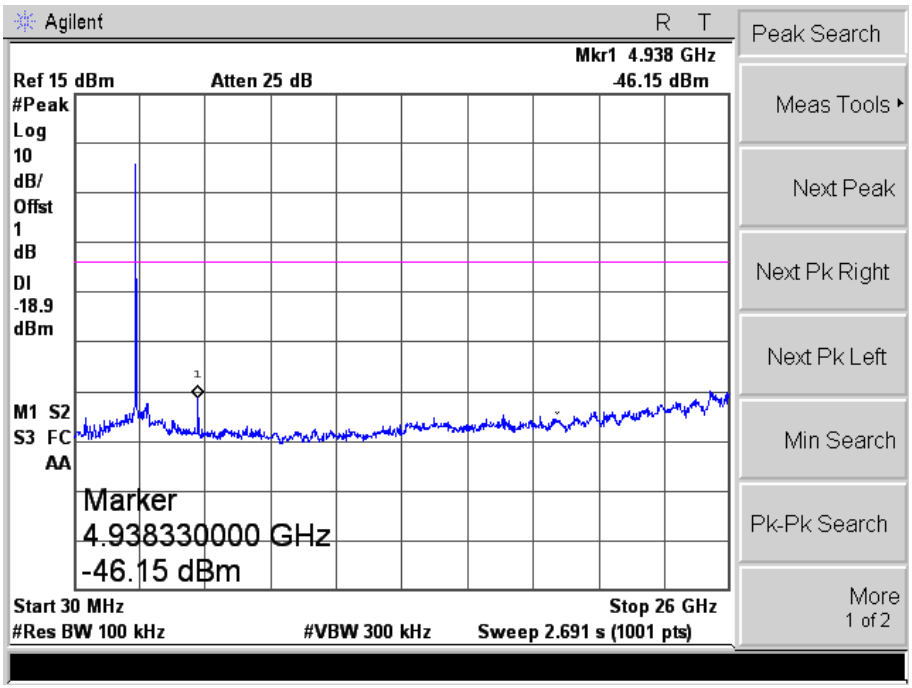
Middle Channel



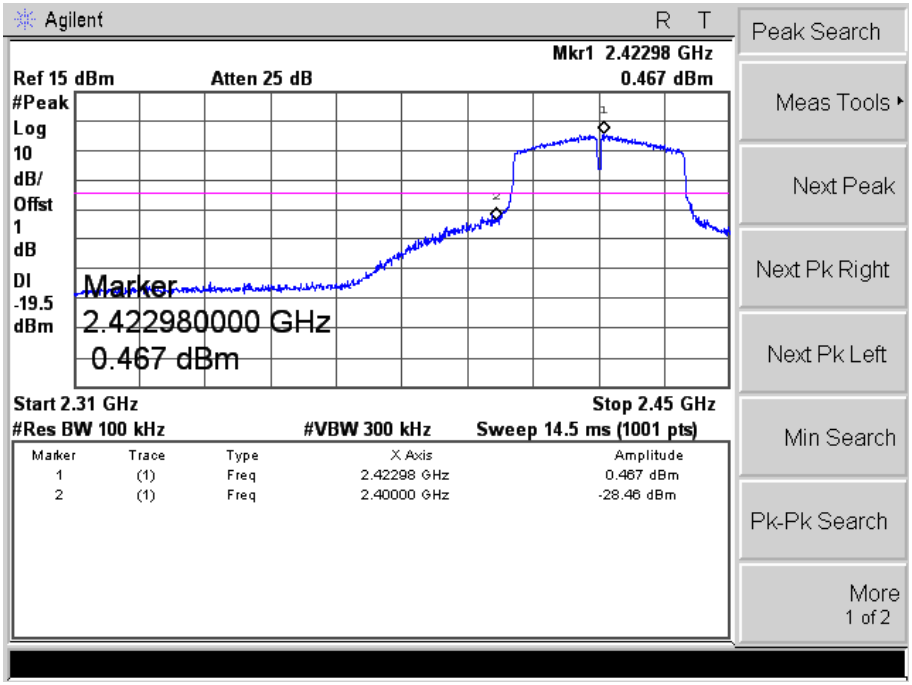


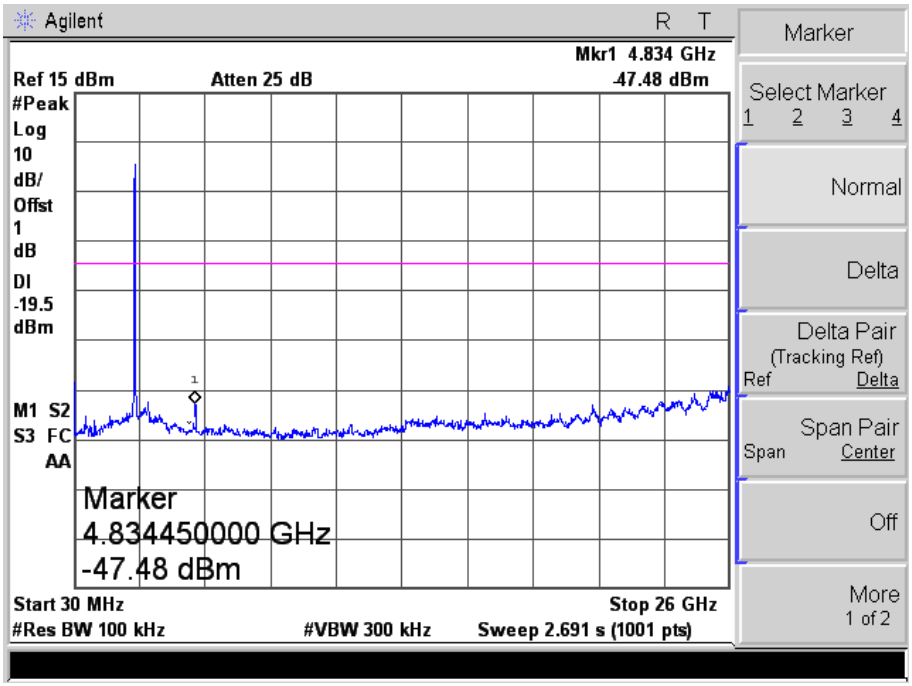
High Channel



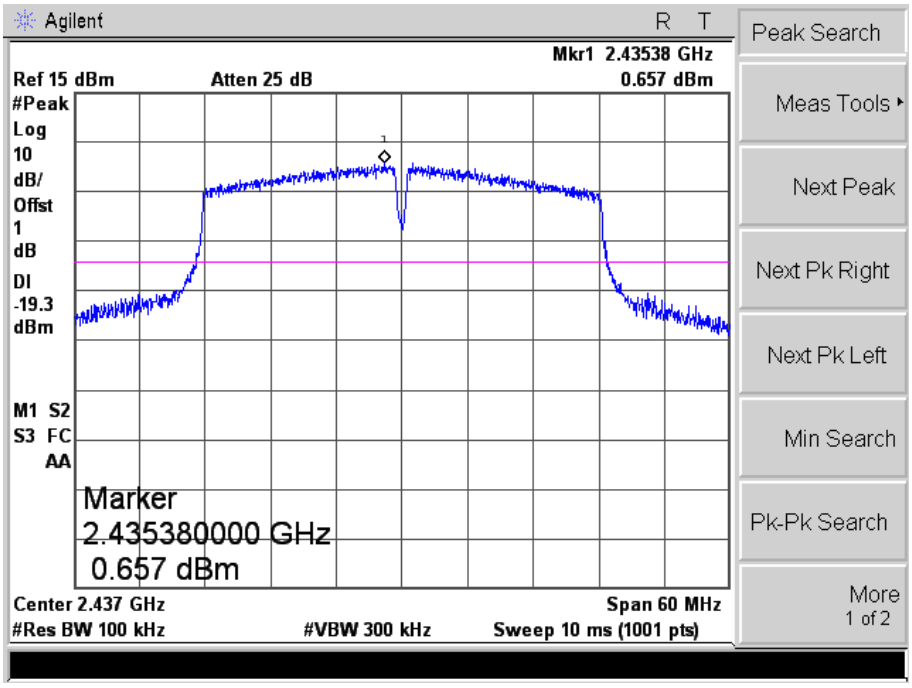


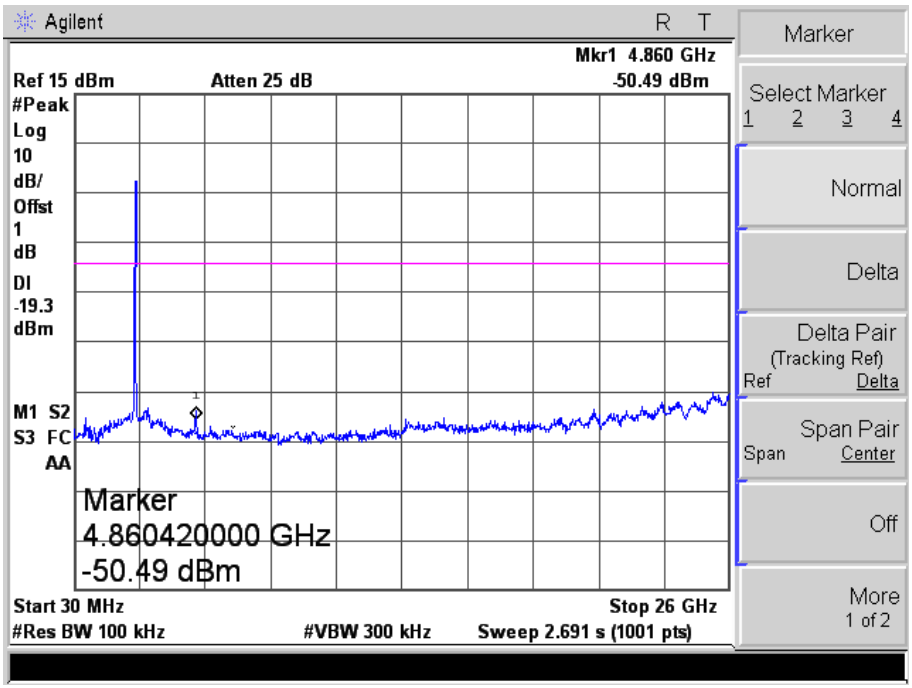
802.11n-HT40
Low Channel



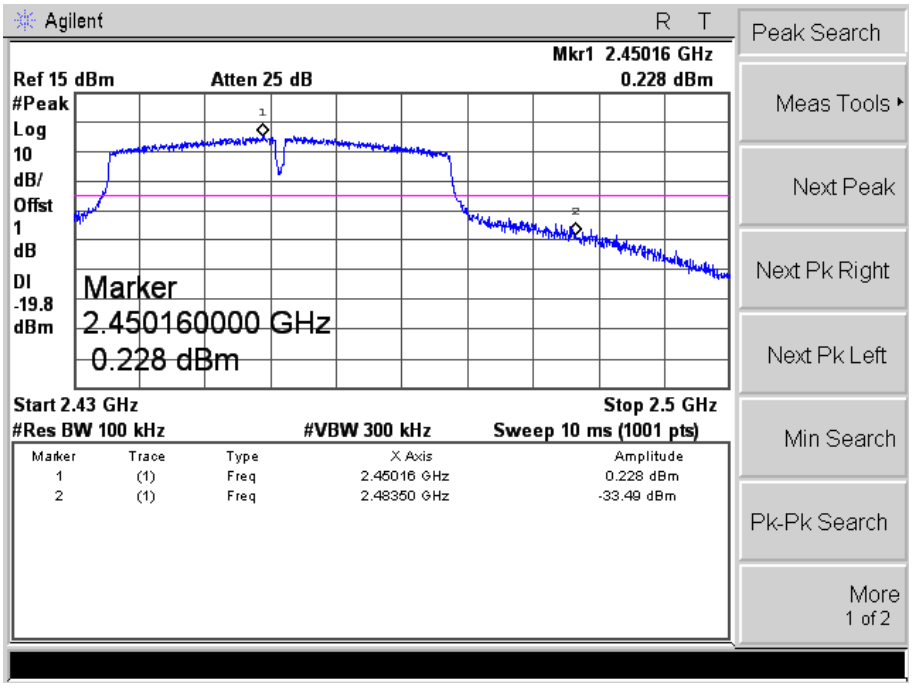


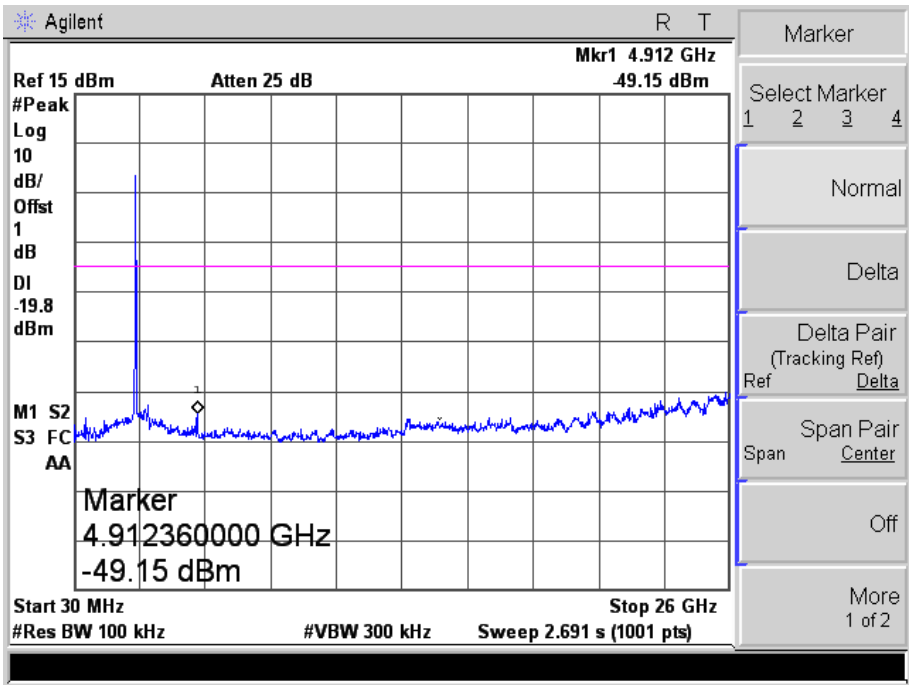
Middle Channel





High Channel





10. Conducted Emissions

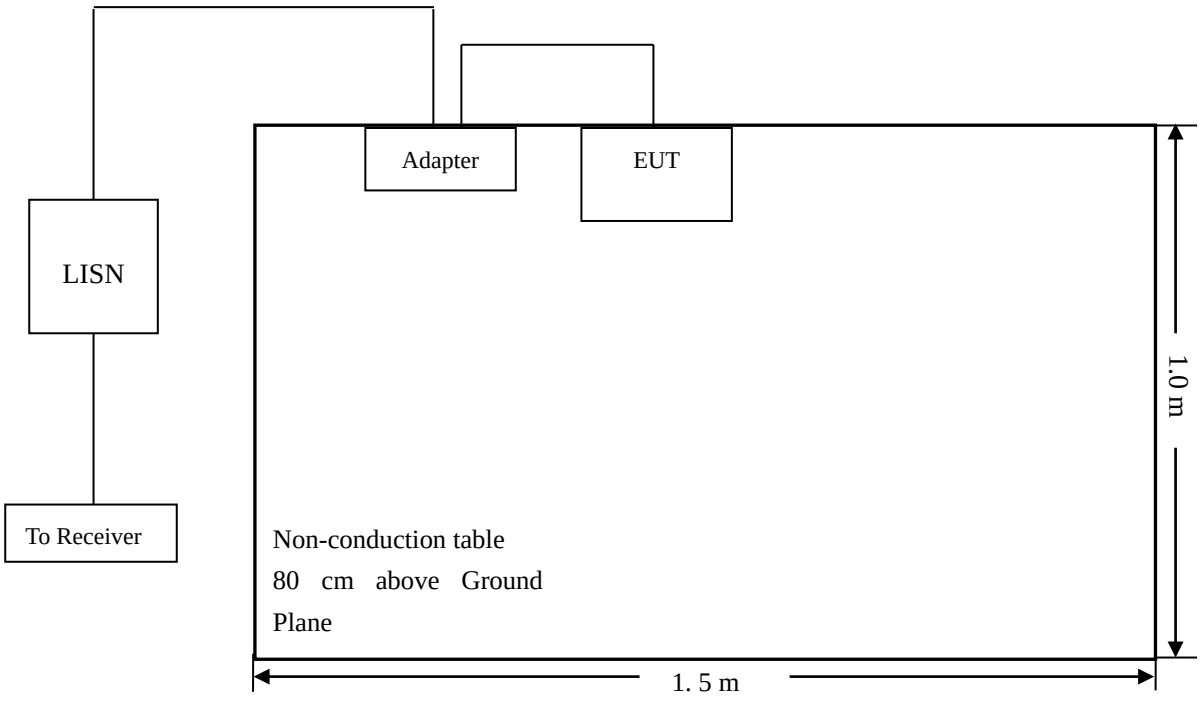
10.1 Measurement Uncertainty

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

10.2 Test Procedure

The setup of EUT is according with per ANSI C63.4-2014 measurement procedure. The specification used was with the FCC Part 15.207 Limit.
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.
The spacing between the peripherals was 10 cm.

10.3 Basic Test Setup Block Diagram



10.4 Environmental Conditions

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

10.5 Test Receiver Setup

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

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

10.6 Summary of Test Results/Plots

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

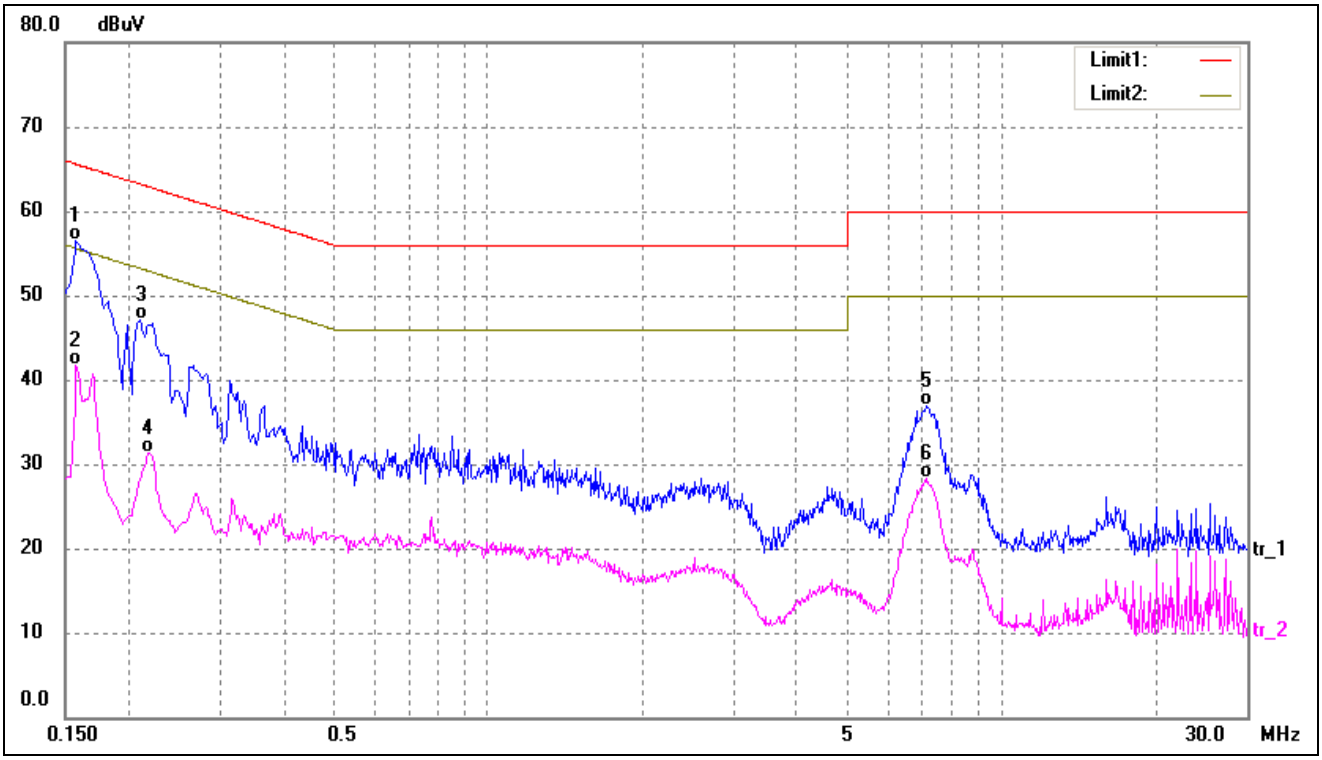
-7.28 dB at 0.1620MHz in the **Line** mode**, QP** detector, **0.15-30MHz**

10.7 Conducted Emissions Test Data

Plot of Conducted Emissions Test Data

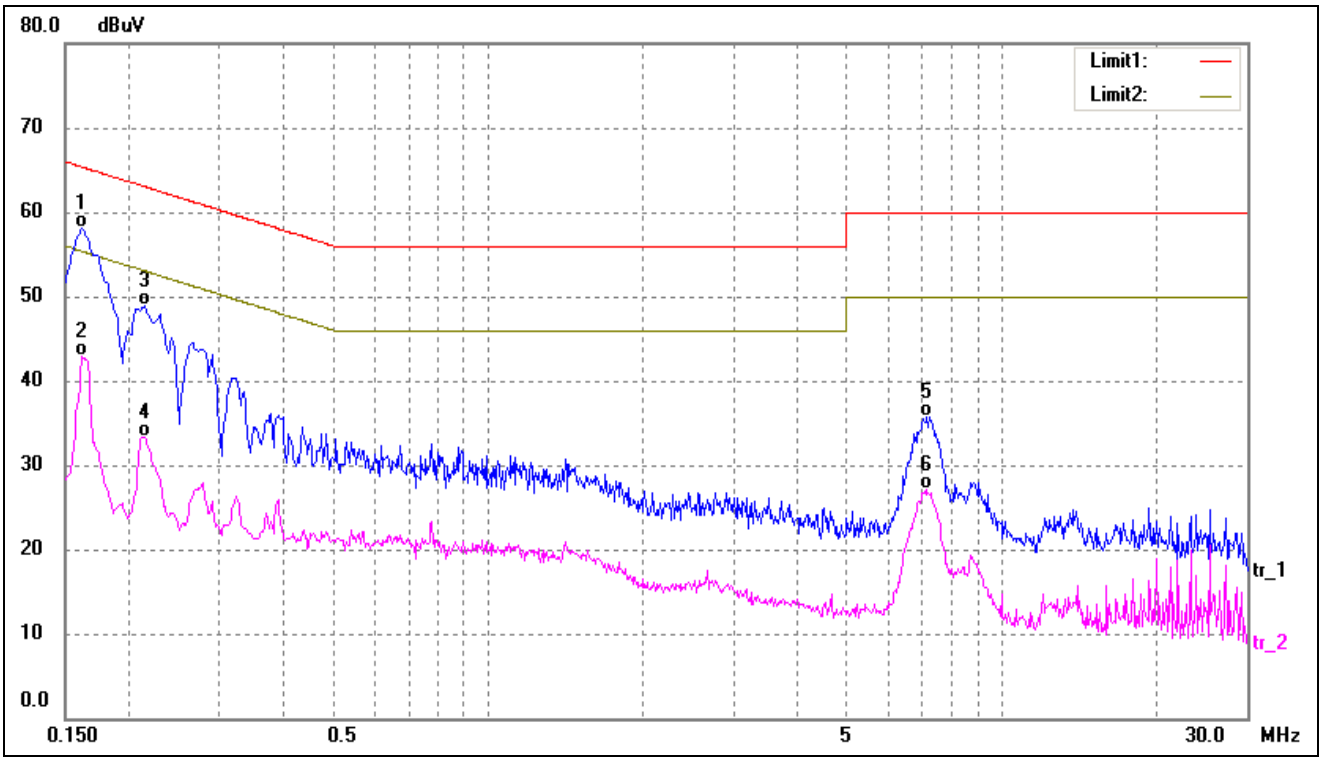
EUT: *SMART PROJECTOR*
Tested Model: *CAN*
Operating Condition: *Transmitting(Wi-Fi)*
Comment: *AC 120V/60Hz; Battery: DC 11.1V*

Test Specification: *Neutral*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1580	46.39	10.10	56.49	65.56	-9.07	QP
2	0.1580	31.70	10.10	41.80	55.56	-13.76	AVG
3	0.2100	37.05	10.13	47.18	63.20	-16.02	QP
4	0.2180	21.26	10.13	31.39	52.89	-21.50	AVG
5	7.1260	26.00	10.84	36.84	60.00	-23.16	QP
6	7.1380	17.53	10.84	28.37	50.00	-21.63	AVG

Test Specification: *Line*



No.	Frequency	Reading	Correct	Result	Limit	Margin	Detector
	(MHz)	(dBuV)	(dB/m)	(dBuV)	(dBuV)	(dB)	
1*	0.1620	47.98	10.10	58.08	65.36	-7.28	QP
2	0.1620	32.72	10.10	42.82	55.36	-12.54	AVG
3	0.2140	38.76	10.13	48.89	63.04	-14.15	QP
4	0.2140	23.25	10.13	33.38	53.04	-19.66	AVG
5	7.1500	24.91	10.84	35.75	60.00	-24.25	QP
6	7.1500	16.23	10.84	27.07	50.00	-22.93	AVG

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