

FCC RF TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Tablet PC

ISSUED TO
Shenzhen Jingwah Information Technology Co., Ltd.

4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District,
Shenzhen



Prepared by: Cao Shaocong
Cao Shaocong
(Reporting Specialist)

Date 2014.4.14

Approved by: Wei Yanquan
Wei Yanquan
(Chief Engineer)

Date 2014.4.14

Report No.: BL-SZ1430057-602

EUT Type: Tablet PC

Model Name: D70J10-2N, D70J10-2G, D70J10-2P,
D70J10-2B, D70J10-2R, D70J10-2W,
D70J10-2M

Brand Name: AOC

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: RBD-D70J10

Test conclusion: PASS

Test Date: Mar 14, 2014 ~ Apr 12, 2014

Date of Issue: Apr 14, 2014

NOTE: This test report can be duplicated completely for the legal use with the approval of the applicant; it shall not be reproduced except in full, without the written approval of Shenzhen BALUN Technology Co., Ltd. BALUN Laboratory. Any objections should be raised within thirty days from the date of issue. To validate the report, please visit BALUN website.

Revision History

<u>Version</u>	<u>Issue Date</u>	<u>Revisions</u>
Rev. 01	Apr 10, 2014	Initial Issue
Rev. 02	Apr 14, 2014	The Second Issue

TABLE OF CONTENTS

1	ADMINISTRATIVE DATA (GENERAL INFORMATION)	4
1.1	Identification of the Testing Laboratory	4
1.2	Identification of the Responsible Testing Location	4
1.3	Test Environment Condition	4
1.4	Announce	4
2	PRODUCT INFORMATION	6
2.1	Applicant	6
2.2	Manufacturer	6
2.3	General Description for Equipment under Test (EUT)	6
2.4	Technical Information	6
2.5	Ancillary Equipment	7
3	SUMMARY OF TEST RESULTS	8
3.1	Test Standards	8
3.2	Verdict	8
4	GENERAL TEST CONFIGURATIONS	9
4.1	Test Environments	9
4.2	Test Equipment List	9
4.3	Test Configurations	9
4.4	Description of Test Setup	10
4.4.1	For Antenna Port Test	10
4.4.2	For AC Power Supply Port Test	10
4.4.3	For Radiated Test (Below 30MHz)	11
4.4.4	For Radiated Test (30MHz-1GHz)	11
4.4.5	For Radiated Test (Above 1GHz)	12
4.5	Test Conditions	12

5	TEST ITEMS.....	13
5.1	Peak Output Power	13
5.1.1	Test Limit.....	13
5.1.2	Test Procedure	13
5.2	Occupied Bandwidth	14
5.2.1	Limit.....	14
5.2.2	Test Procedure	14
5.3	Conducted Spurious Emission	15
5.3.1	Limit.....	15
5.3.2	Test Procedure	15
5.4	Conducted Emission	16
5.4.1	Limit.....	16
5.4.2	Test Procedure	16
5.5	Radiated Spurious Emission	17
5.5.1	Limit.....	17
5.5.2	Test Procedure	17
5.6	Band Edge	18
5.6.1	Limit.....	18
5.6.2	Test Procedure	18
5.7	Power Spectral density (PSD).....	19
5.7.1	Limit.....	19
5.7.2	Test Procedure	19
ANNEX A	TEST RESULT	20
A.1	Peak Output Power	20
A.2	Bandwidth	27
A.3	Conducted Spurious Emissions	34
A.4	Conducted Emissions	47
A.5	Radiated Emission	49
A.6	Band Edge	103
A.7	Power Spectral Density (PSD)	111

1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,P. R. China
Phone Number	+86 755 6683 3402
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co.,Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province,P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Test Environment Condition

Ambient Temperature	15 to 35°C
Ambient Relative Humidity	30 to 60%
Ambient Pressure	86 to106kPa

1.4 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.

- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Shenzhen Jingwah Information Technology Co., Ltd.
Address	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen

2.2 Manufacturer

Manufacturer	Shenzhen Jingwah Information Technology Co., Ltd.
Address	4F, Bldg 4, Jinghua Square, No.1 Huafa North Road, Futian District, Shenzhen

2.3 General Description for Equipment under Test (EUT)

EUT Type	Tablet PC
Model under test	D70J10-2N
Series Model Name	D70J10-2N, D70J10-2G, D70J10-2P, D70J10-2B, D70J10-2R, D70J10-2W, D70J10-2M
Description of Model name differentiation	Only the difference in appearance of the color “G”—“Green”, “N”—“Neutral”, “P”—“Pink”, “B”—“Blue”, “R”—“Red” “W”—“White”, “M”—“Magenta”
Hardware Version	V1.1
Software Version	D70J10-201403
Network and Wireless connectivity	BT 3.0 WIFI 802.11b, 802.11g and 802.11n (HT20/40)
Display	7" TFT-LCD, 1024x600 pixels
About the Product	The EUT is a tablet PC, it contains Bluetooth and WIFI Module operating at 2.4GHz ISM band which supports Bluetooth 3.0 and 802.11b, 802.11g and 802.11n (HT20/40)

2.4 Technical Information

TX/ RX Operating Range	802.11b/g/n(20MHz): 2.412GHz - 2.462GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = “Operating Frequency” in MHz, - N = “Channel Number” with the range from 1 to 11. 802.11n(40MHz): 2.422GHz - 2.452GHz $f_c = 2412 \text{ MHz} + (N-1)*5 \text{ MHz}$, where - f_c = “Operating Frequency” in MHz, - N = “Channel Number” with the range from 3 to 9.
Modulation Type	DSSS, OFDM
Antenna Type	PIFA Antenna
Antenna Gain	0dBi

2.5 Ancillary Equipment

Ancillary Equipment 1	Battery	
	Brand Name	SouthRiver
	Model No	SR3067A0
	Serial No	N/A
	Capacitance	2600 mAh
	Rated Voltage	3.7V
	Extreme Voltage	Low: 3.5V / High:4.2V
Ancillary Equipment 2	Adapter	
	Brand Name	FJ
	Model No	FJ-SW0502000DU
	Serial No	(N/A. marked #1 by test site)
	Rated Input	~ 100-240V, 1350mA, 50/60Hz
	Rated Output	= 5V, 2000mA
Ancillary Equipment 3	USB Data Cable	

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (12-30-13 Edition)	Miscellaneous Wireless Communications Services
2	KDB Publication 558074 D01v03r01	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
3	ANSI C63.4-2003/2009	American National Standard for 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
4	ANSI C63.10-2009	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203	--	Pass ^{Note 1}
2	Peak Output Power	15.247(b)	ANNEX A.1	Pass
3	Occupied Bandwidth	15.247(a)	ANNEX A.2	Pass
4	Conducted Spurious Emission	15.247(c)	ANNEX A.3	Pass
5	Conducted Emission	15.207	ANNEX A.4	Pass
6	Radiated Spurious Emission	15.209 15.247(c)	ANNEX A.5	Pass
7	Band Edge	15.247(c)	ANNEX A.6	Pass
8	Power spectral density (PSD)	15.247(d)	ANNEX A.7	Pass

Note 1: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity (%)	30 -60	
Atmospheric Pressure (kPa)	86-106	
Temperature	NT (Normal Temperature)	+20°C to +25°C
	LT (Low Temperature)	-20°C
	HT (High Temperature)	+55°C
Working Voltage of the EUT	NV (Normal Voltage)	3.70V
	LV (Low Voltage)	3.50V
	HV (High Voltage)	4.20V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2013.05.10	2014.05.09
Spectrum Analyzer	ROHDE&SCHWARZ	FSL3	103640/003	2013.05.02	2014.05.01
Power Splitter	KMW	DCPD-LDC	1305003215	2013.05.14	2014.05.13
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2013.05.08	2014.05.07
Attenuator (20dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2013.07.06	2014.07.07
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2013.07.06	2014.07.07
Test Antenna-Loop(9kHz-30MHz)	SCHWARZBECK	FMZB 1519	1519-037	2013.07.02	2014.07.01
Test Antenna-Bi-Log(30MHz-3G Hz)	SCHWARZBECK	VULB 9163	9163-624	2013.07.03	2014.07.02
Test Antenna-Horn(1-18GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2013.07.02	2014.07.01
Test Antenna-Horn(15-26.5GHz)	SCHWARZBECK	BBHA 9170	9170-305	2013.07.02	2014.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2013.10.07	2014.10.06

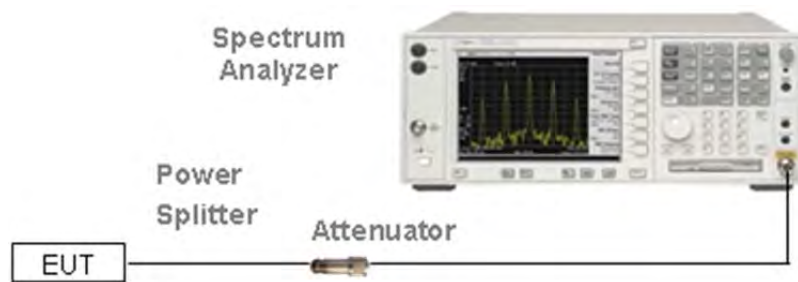
4.3 Test Configurations

Test Configurations (TC) NO.	Description	
	Signal Description	Operating Frequency
Transmitter		

TC01	DSSS modulation, 802.11b	Ch No. 1/ 2412MHz
TC02	DSSS modulation, 802.11b	Ch No. 6/ 2437MHz
TC03	DSSS modulation, 802.11b	Ch No. 11/ 2462MHz
TC04	OFDM modulation, 802.11g	Ch No. 1/ 2412MHz
TC05	OFDM modulation, 802.11g	Ch No. 6/ 2437MHz
TC06	OFDM modulation, 802.11g	Ch No. 11/ 2462MHz
TC07	OFDM modulation, 802.11n(20MHz)	Ch No. 1/ 2412MHz
TC08	OFDM modulation, 802.11n(20MHz)	Ch No. 6/ 2437MHz
TC09	OFDM modulation, 802.11n(20MHz)	Ch No. 11/ 2462MHz
TC10	OFDM modulation, 802.11n(40MHz)	Ch No. 3/ 2422MHz
TC11	OFDM modulation, 802.11n(40MHz)	Ch No. 6/ 2437MHz
TC12	OFDM modulation, 802.11n(40MHz)	Ch No. 9/ 2452MHz

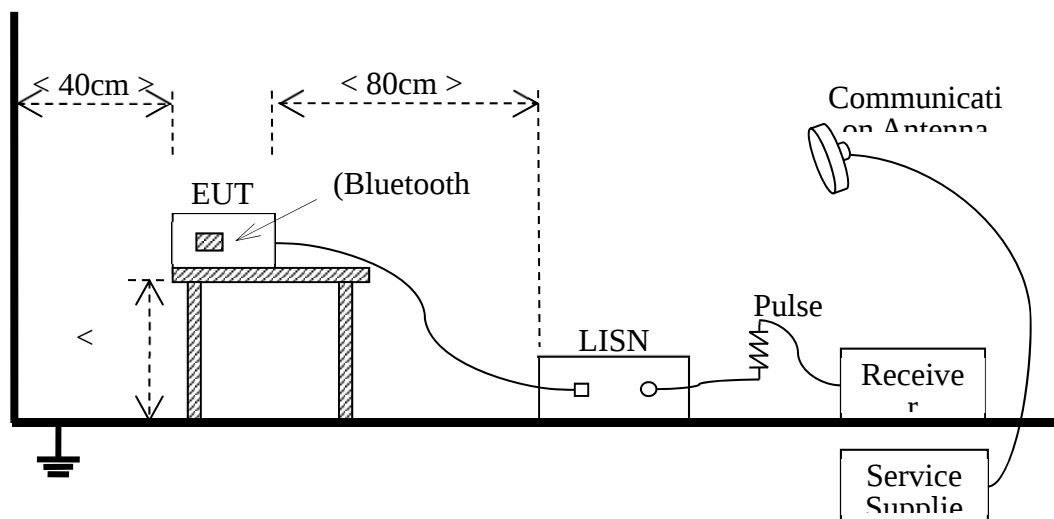
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



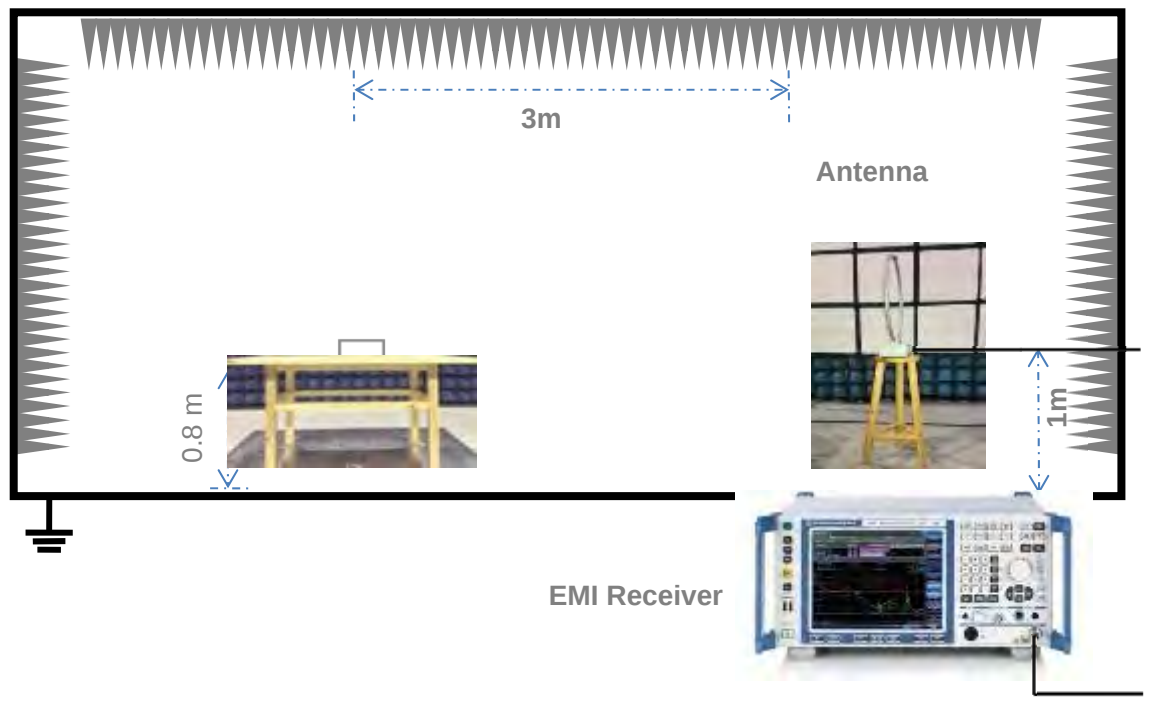
(Diagram 1)

4.4.2 For AC Power Supply Port Test



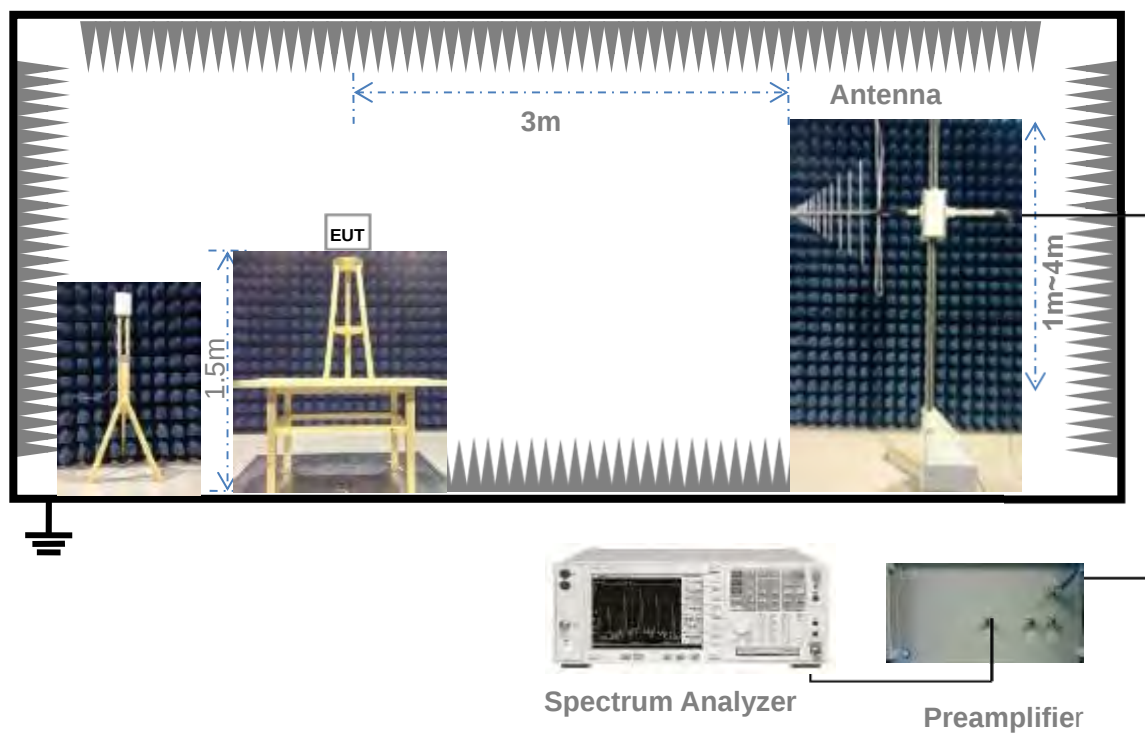
(Diagram 2)

4.4.3 For Radiated Test (Below 30MHz)



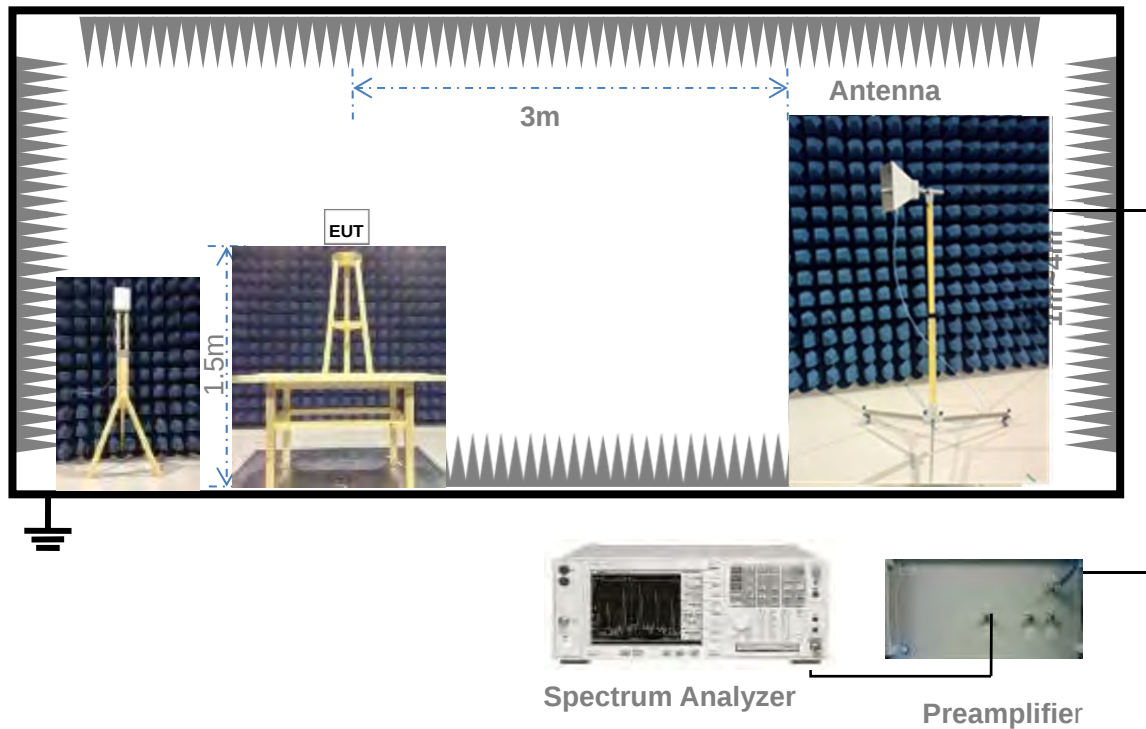
(Diagram 3)

4.4.4 For Radiated Test (30MHz-1GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1GHz)



(Diagram 5)

4.5 Test Conditions

Test Case	Test Conditions		
	Test Env.	Test Setup ^{Note 1}	Test Configuration ^{Note 2}
Peak Output Power	NTNV	Test Setup 1	TC01~TC12
Occupied Bandwidth	NTNV	Test Setup 1	TC01~TC12
Conducted Spurious Emission	NTNV	Test Setup 1	TC01~TC12
Conducted Emission	NTNV	Test Setup 2	TC01~TC12
Radiated Spurious Emission	NTNV	Test Setup 3 Test Setup 4 Test Setup 5	TC01~TC12
Band Edge	NTNV	Test Setup 1	TC01, TC03, TC04, TC06, TC07, TC09, TC10, TC12
Power spectral density (PSD)	NTNV	Test Setup 2	TC01~TC12
Note: 1. Please refer to section 4.4 for test setup details. 2. Please refer to section 4.3 for test setup details.			

5 TEST ITEMS

5.1 Peak Output Power

5.1.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.1.2 Test Procedure

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

Set the RBW = 1 MHz

Set the VBW $\geq$ 3 RBW

Set the span $\geq$ 1.5 x DTS bandwidth.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function,

5.2 Occupied Bandwidth

5.2.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.2.2 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

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.

5.3 Conducted Spurious Emission

5.3.1 Limit

FCC §15.247(c)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.3.2 Test Procedure

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 $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.4 Conducted Emission

5.4.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.4.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.5 Radiated Spurious Emission

5.5.1 Limit

FCC §15.209&15.247(c)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength ($\mu\text{V/m}$)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Note:

1. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
2. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.5.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

5.6 Band Edge

5.6.1 Limit

FCC §15.209&15.247(d)

In any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.6.2 Test Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation

RBW $\geq$ 1% of the span

VBW $\geq$ RBW

Sweep = auto

Detector function = peak /AV

Trace = max hold

Allow the trace to stabilize.

$E \text{ [dB}\mu\text{V/m]} = UR + AT + A \text{ Factor [dB]}; AT = L \text{ Cable loss [dB]} - G \text{ preamp [dB]}$

AT: Total correction Factor except Antenna

UR: Receiver Reading

G preamp: Preamplifier Gain

A Factor: Antenna Factor at 3m

5.7 Power Spectral density (PSD)

5.7.1 Limit

FCC §15.247(d)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.7.2 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 $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

ANNEX A TEST RESULT

A.1 Peak Output Power

Test Data

802.11b Mode:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	mW	dBm	mW	
1	2412	16.46	44.26	30	1000	PASS
6	2437	16.76	47.42			PASS
11	2462	15.41	34.75			PASS

802.11g Mode:

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	mW	dBm	mW	
1	2412	16.13	41.02	30	1000	PASS
6	2437	15.66	36.81			PASS
11	2462	15.59	36.22			PASS

802.11n-20MHz Mode:

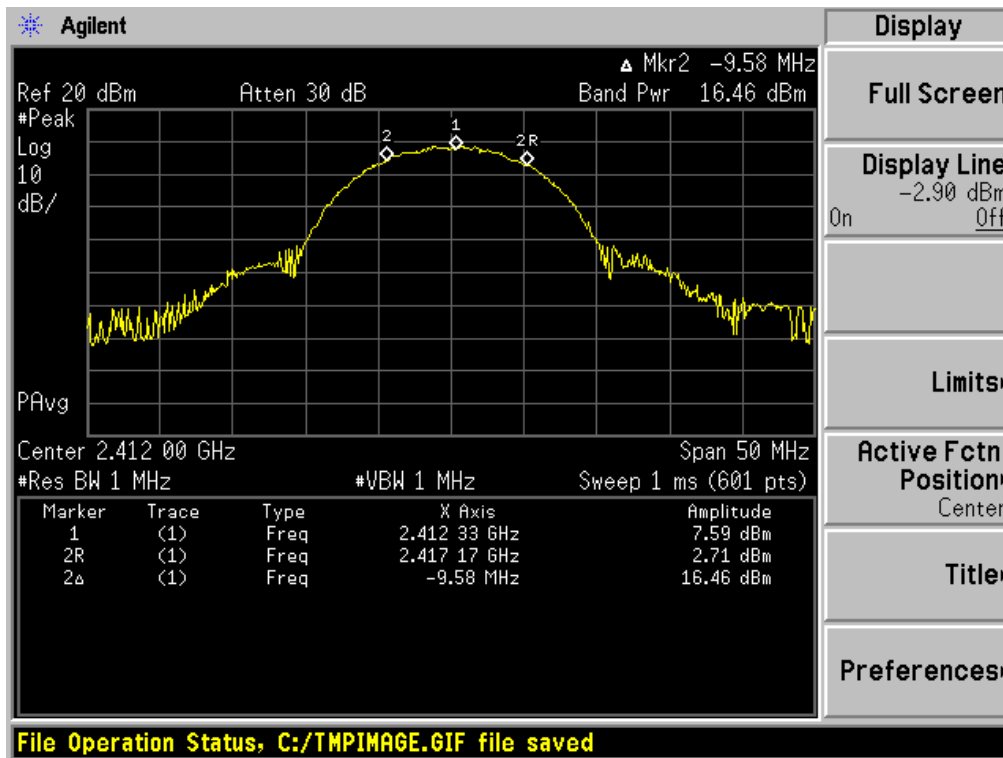
Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	mW	dBm	mW	
1	2412	16.08	40.55	30	1000	PASS
6	2437	15.98	39.63			PASS
11	2462	15.50	35.48			PASS

802.11n-40MHz Mode:

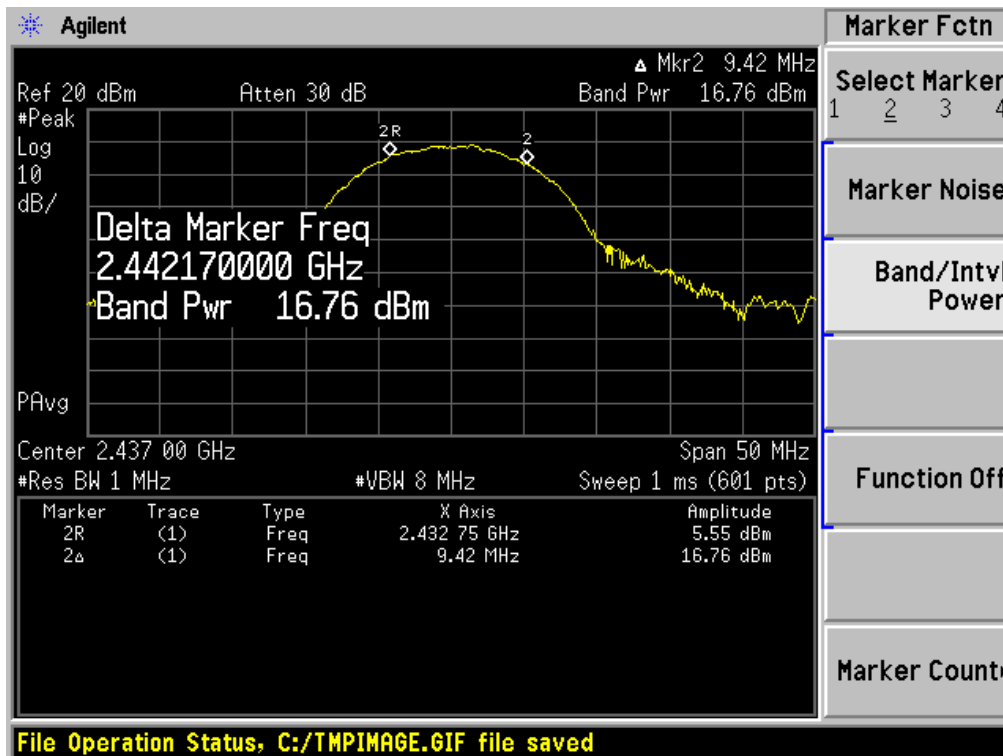
Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	mW	dBm	mW	
3	2422	15.51	35.56	30	1000	PASS
6	2437	15.57	36.06			PASS
9	2452	15.26	33.57			PASS

Test plots

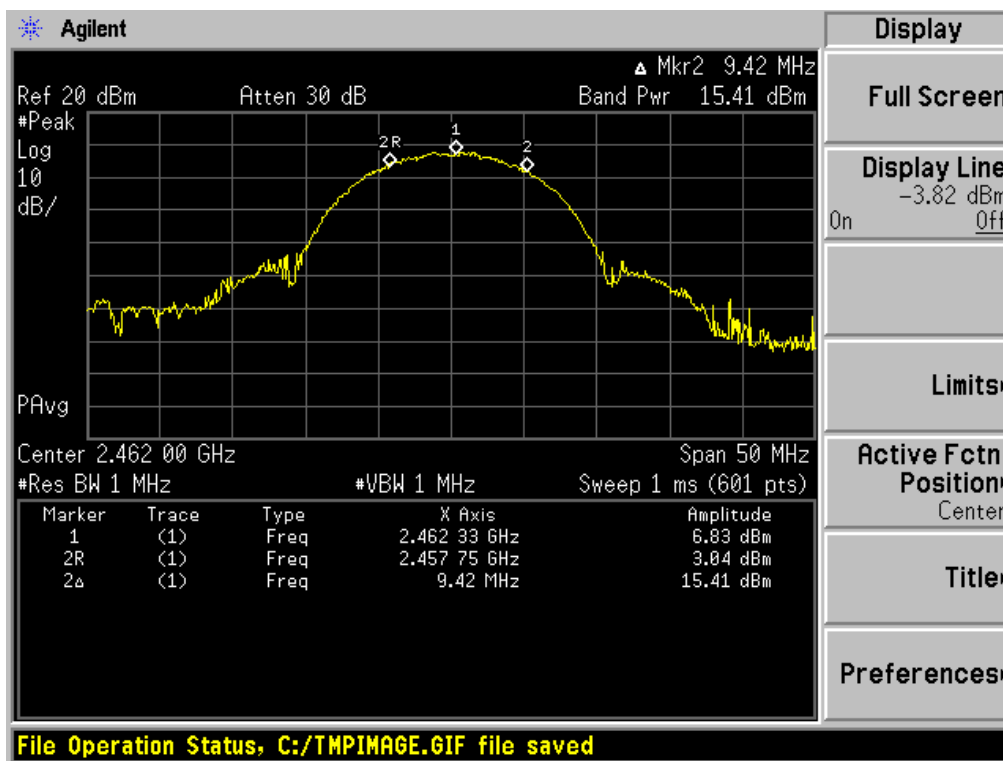
A.1.1, 802.11b LOW CHANNEL



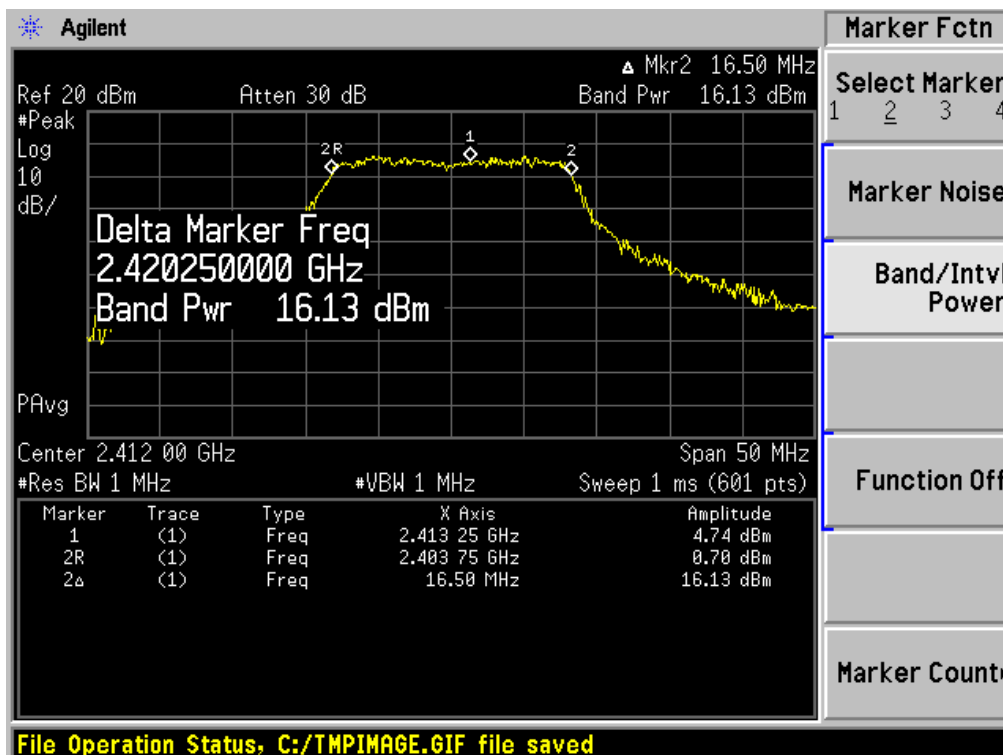
A.1.2, 802.11b MID CHANAEL



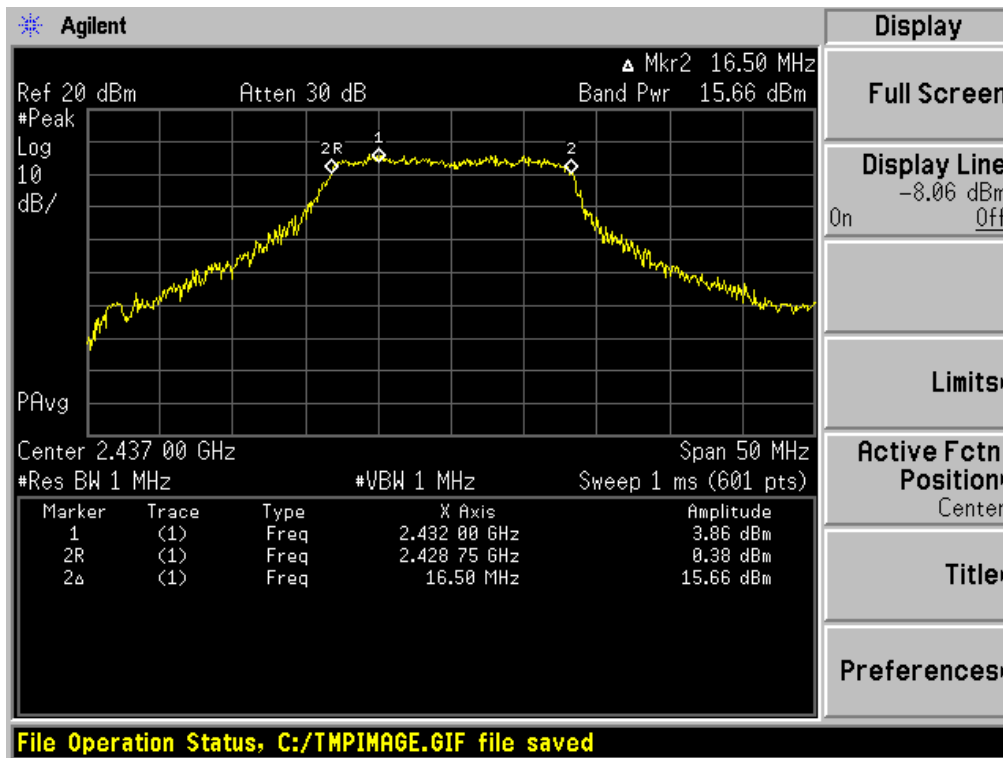
A.1.3, 802.11b HIGH CHANNEL



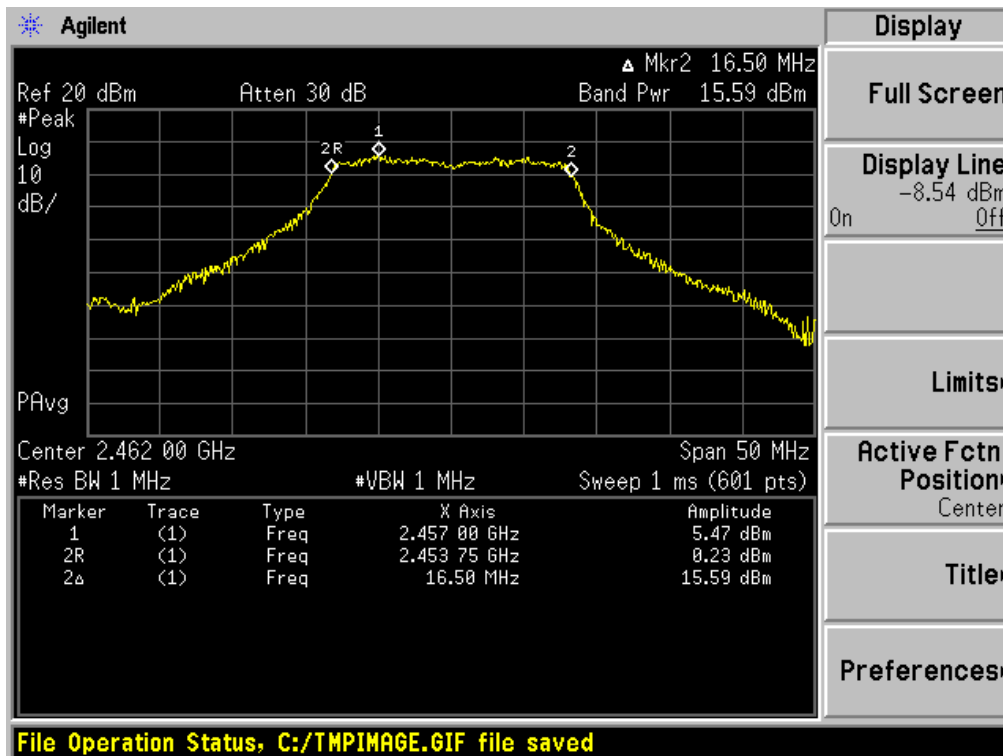
A.1.4, 802.11g LOW CHANNEL



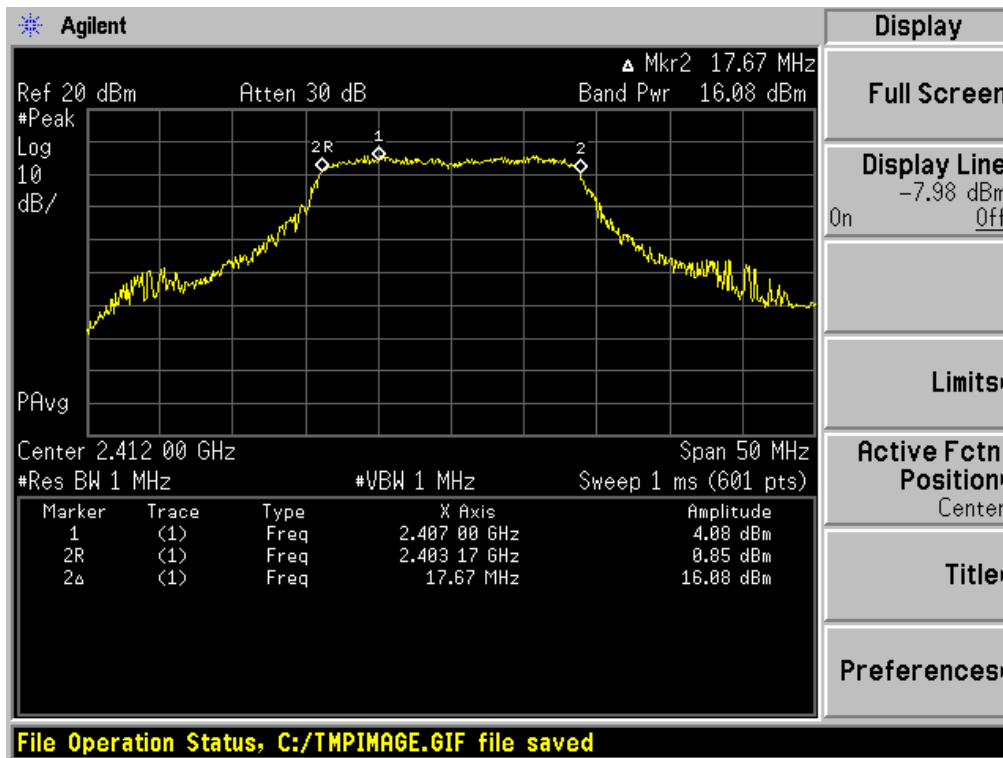
A.1.5, 802.11g MID CHANAEL



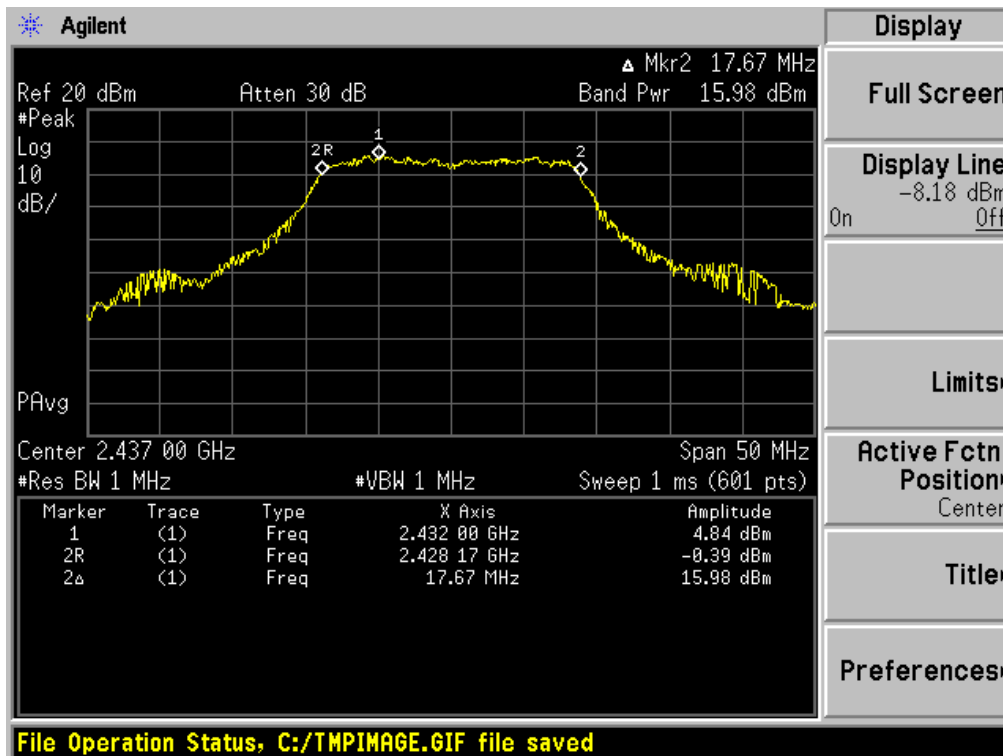
A.1.6, 802.11g HIGH CHANNEL



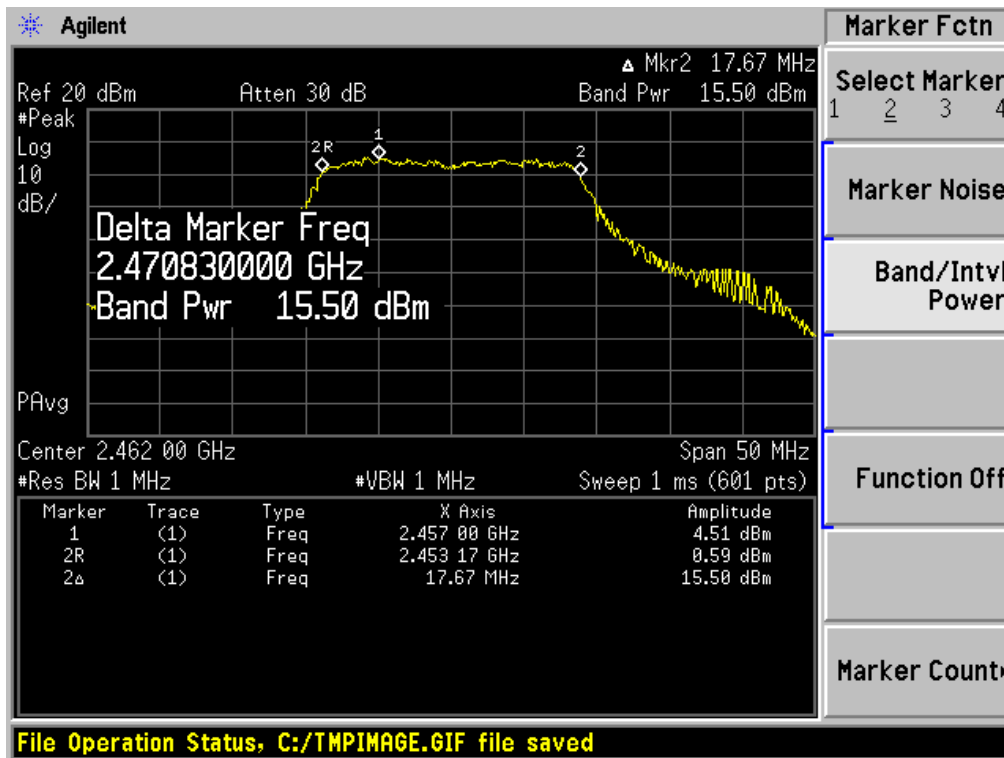
A.1.7, 802.11n-20MHz LOW CHANNEL



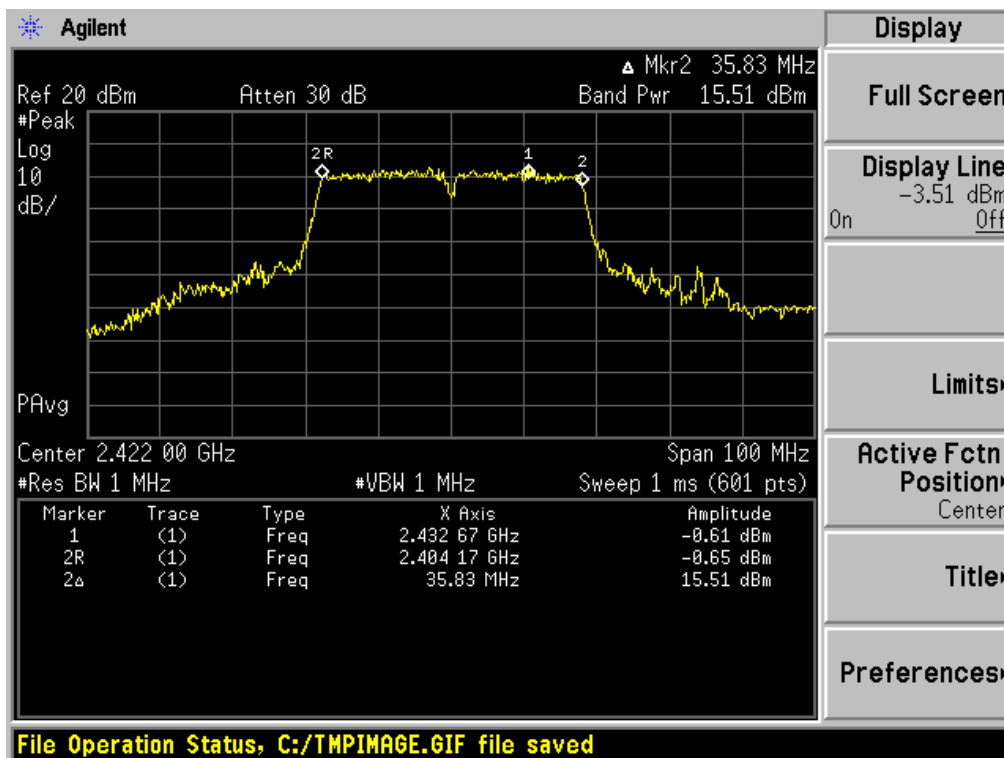
A.1.8, 802.11n-20MHz MID CHANAEL



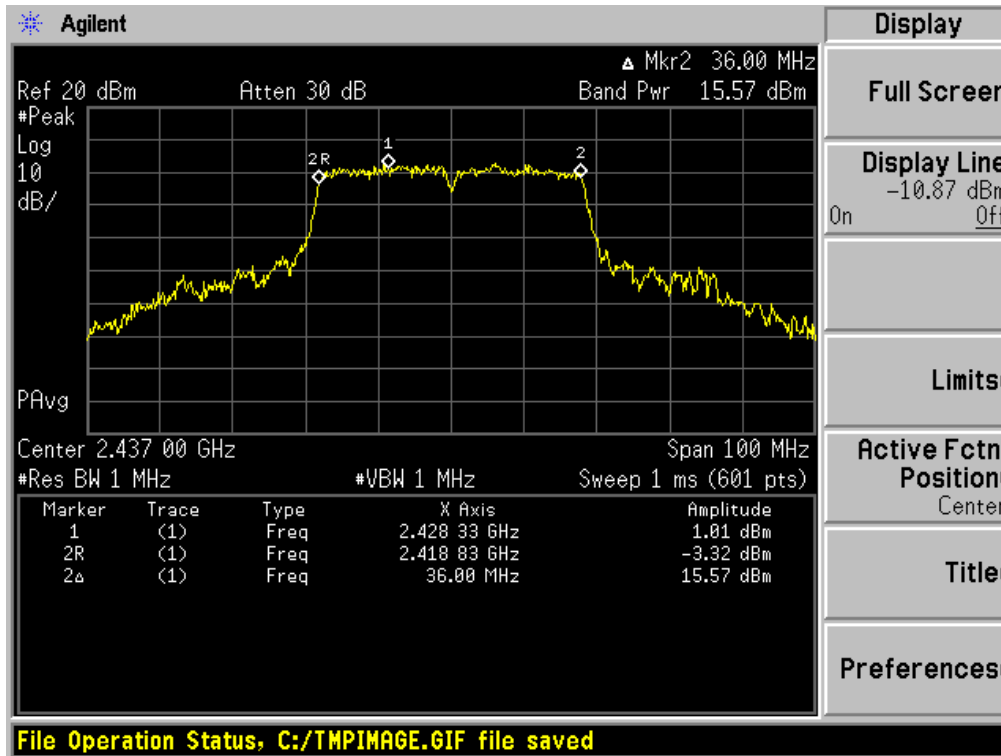
A.1.9, 802.11n-20MHz HIGH CHANNEL



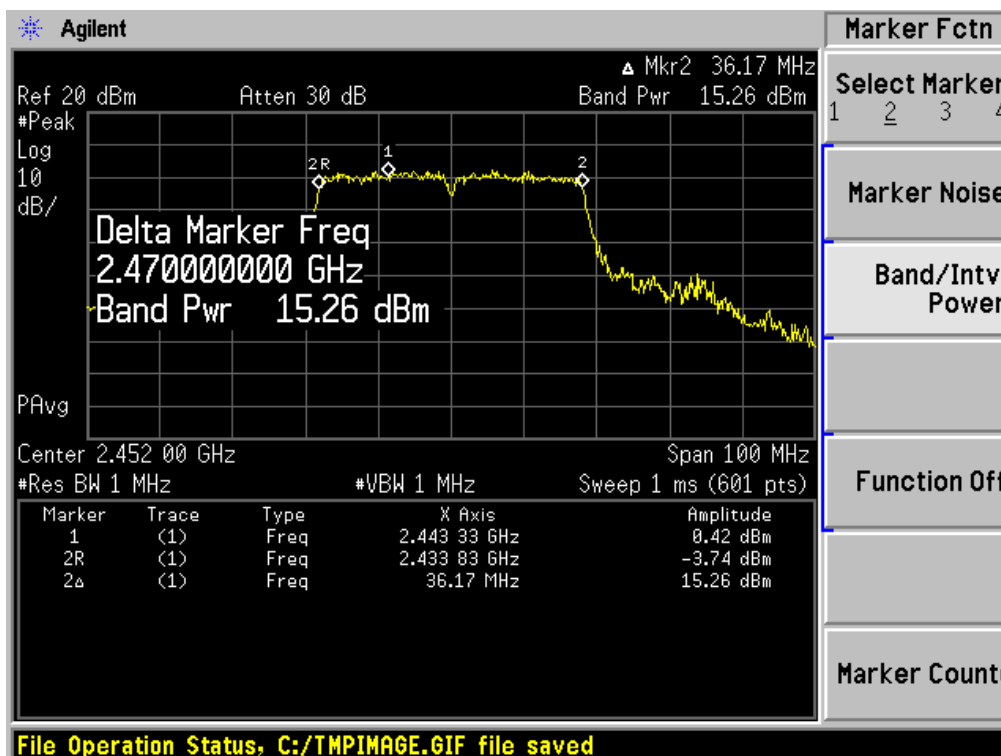
A.1.10, 802.11n-40MHz LOW CHANNEL



A.1.11, 802.11n-40MHz MID CHANAEL



A.1.12, 802.11n-40MHz HIGH CHANNEL



A.2 Bandwidth

Test Data

802.11b Mode:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)
Low	2412	9.394	≥ 500
Middle	2437	9.359	≥ 500
High	2462	9.903	≥ 500

802.11g Mode:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)
Low	2412	16.453	≥ 500
Middle	2437	16.456	≥ 500
High	2462	16.451	≥ 500

802.11n-20MHz Mode:

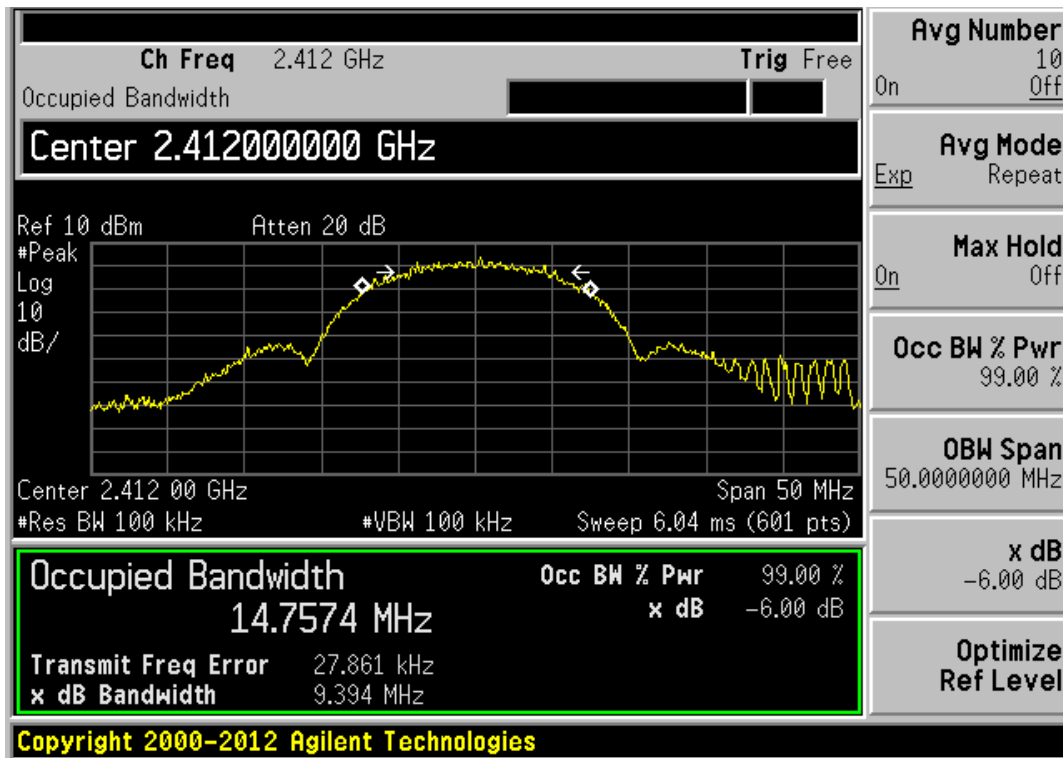
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)
Low	2412	16.993	≥ 500
Middle	2437	17.394	≥ 500
High	2462	16.968	≥ 500

802.11n-40MHz Mode:

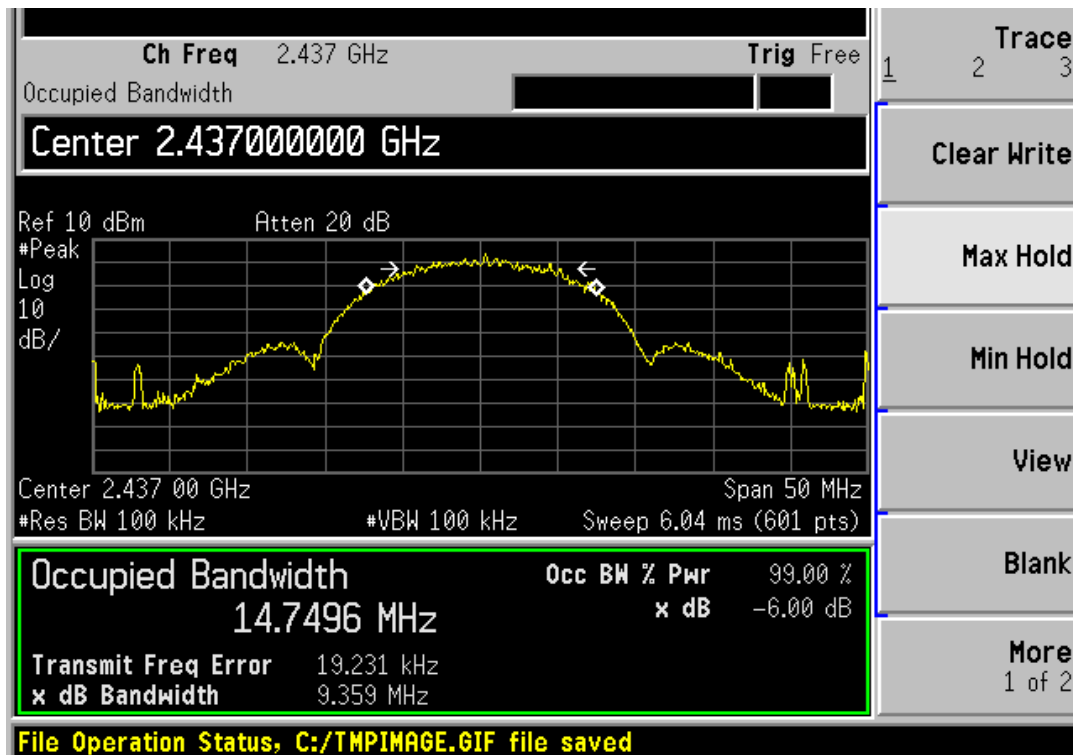
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)
Low	2422	35.517	≥ 500
Middle	2437	35.524	≥ 500
High	2452	34.848	≥ 500

Test plots

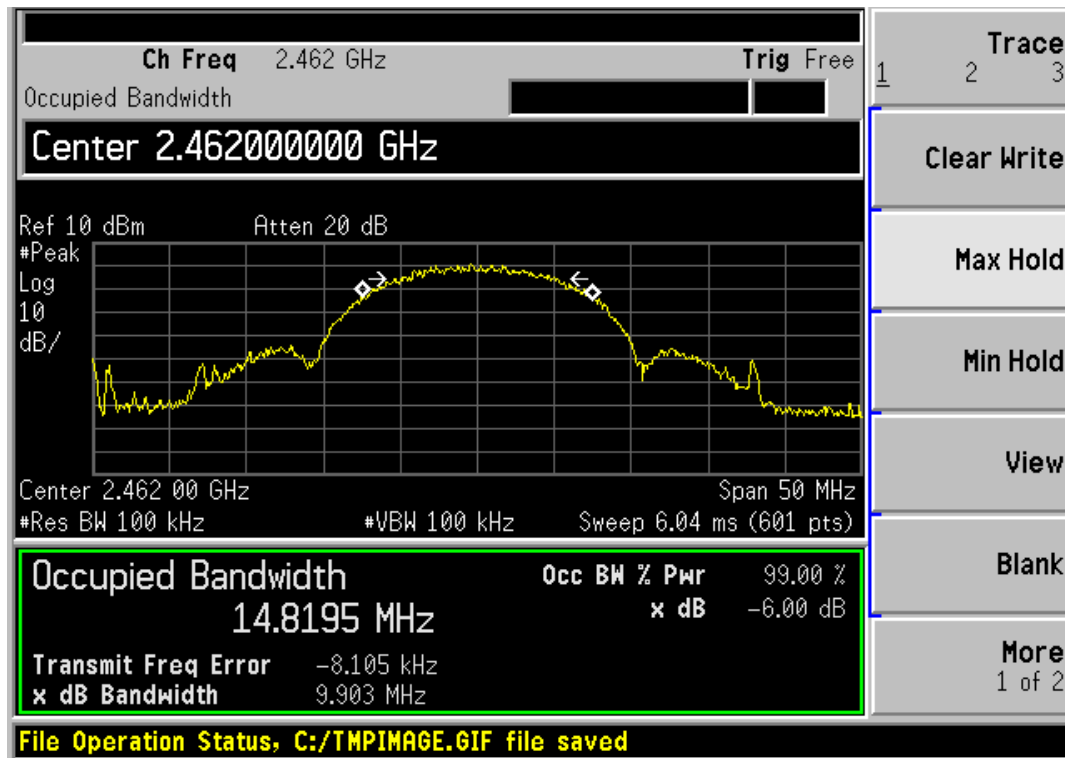
A.2.1, 802.11b LOW CHANNEL



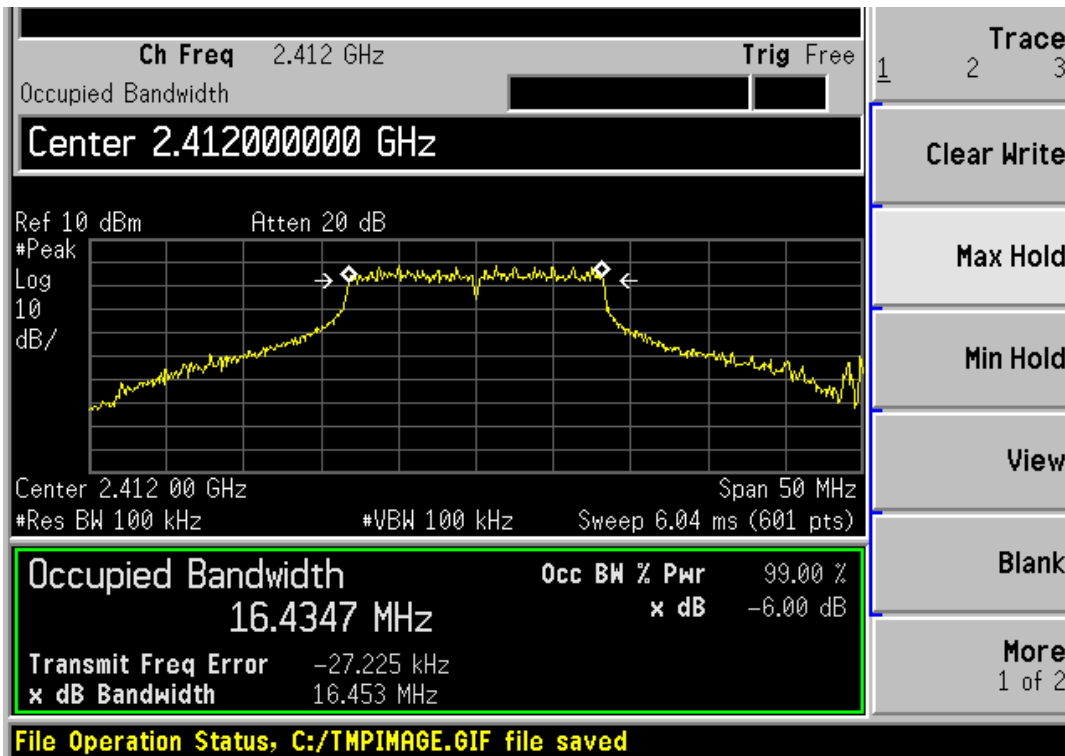
A.2.2, 802.11b MID CHANAEL



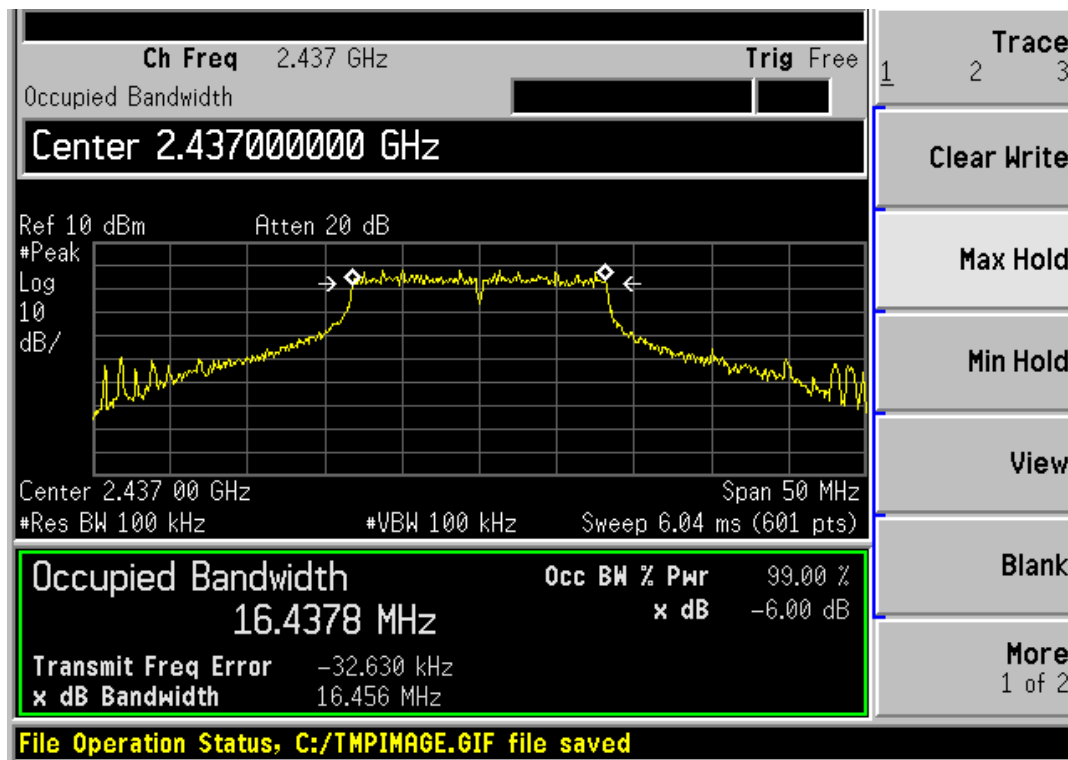
A.2.3, 802.11b HIGH CHANNEL



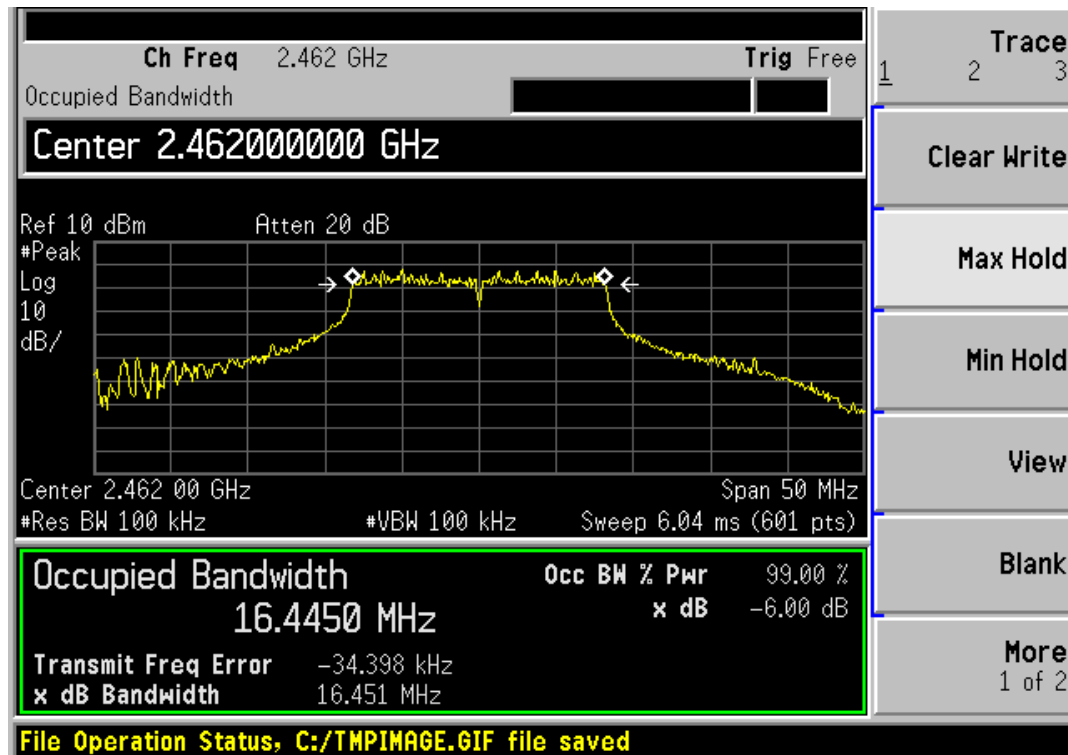
A.2.4, 802.11g LOW CHANNEL



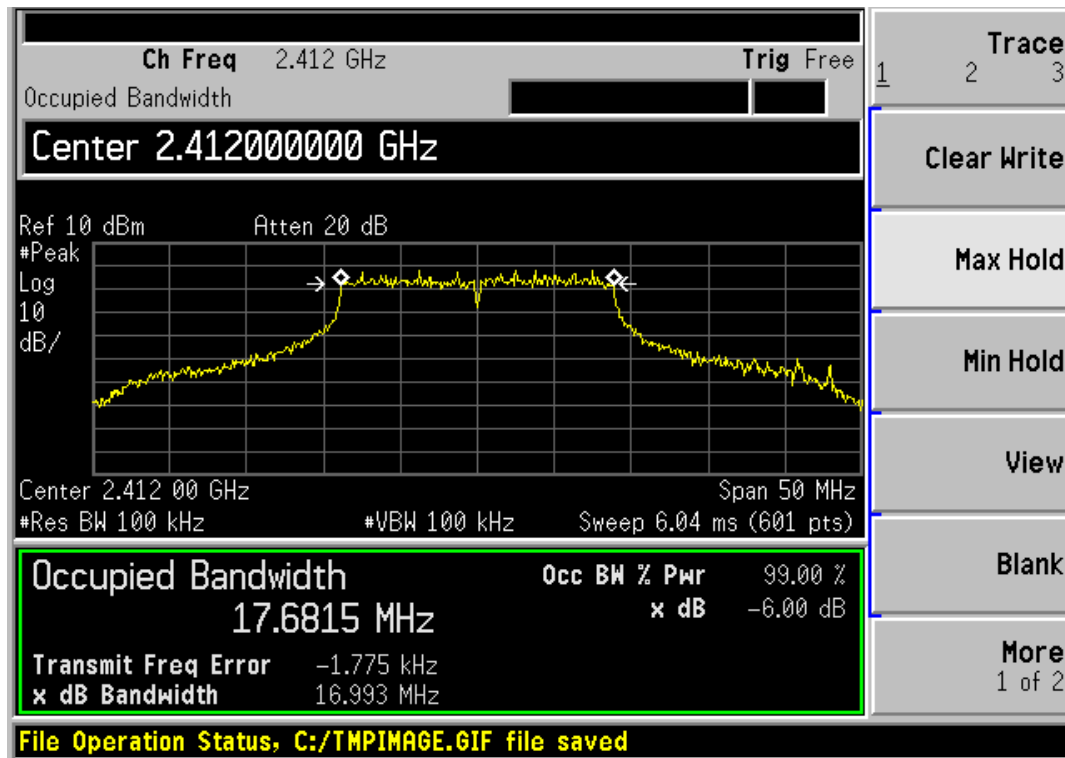
A.2.5, 802.11g MID CHANAEL



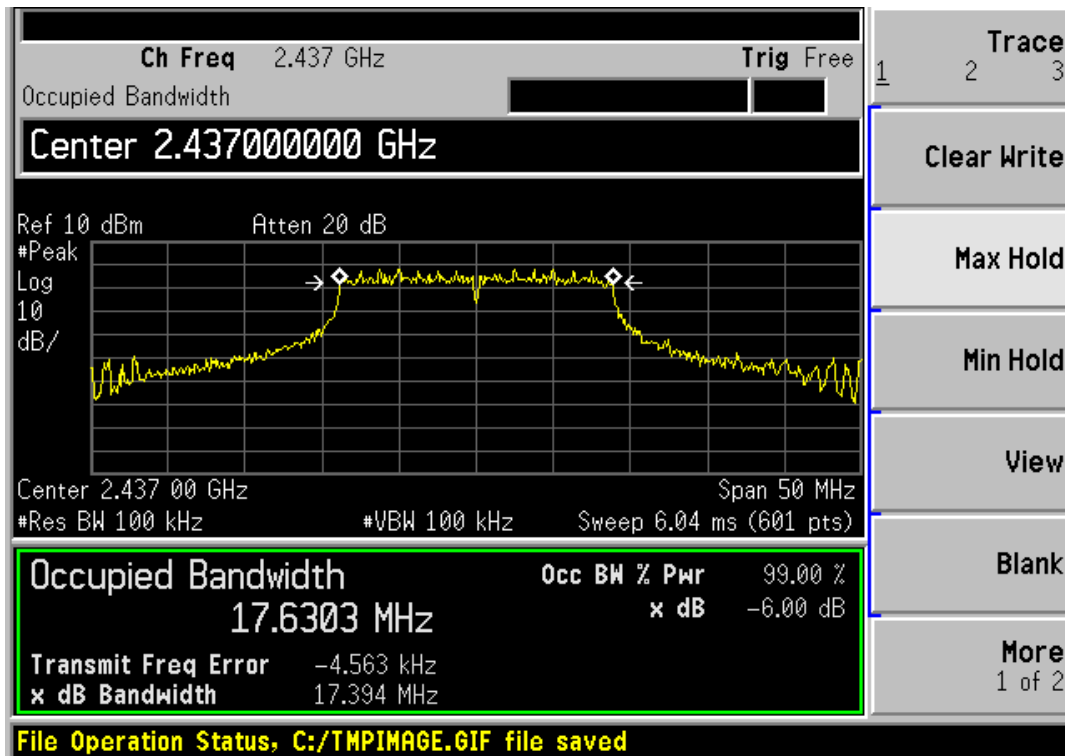
A.2.6, 802.11g HIGH CHANNEL



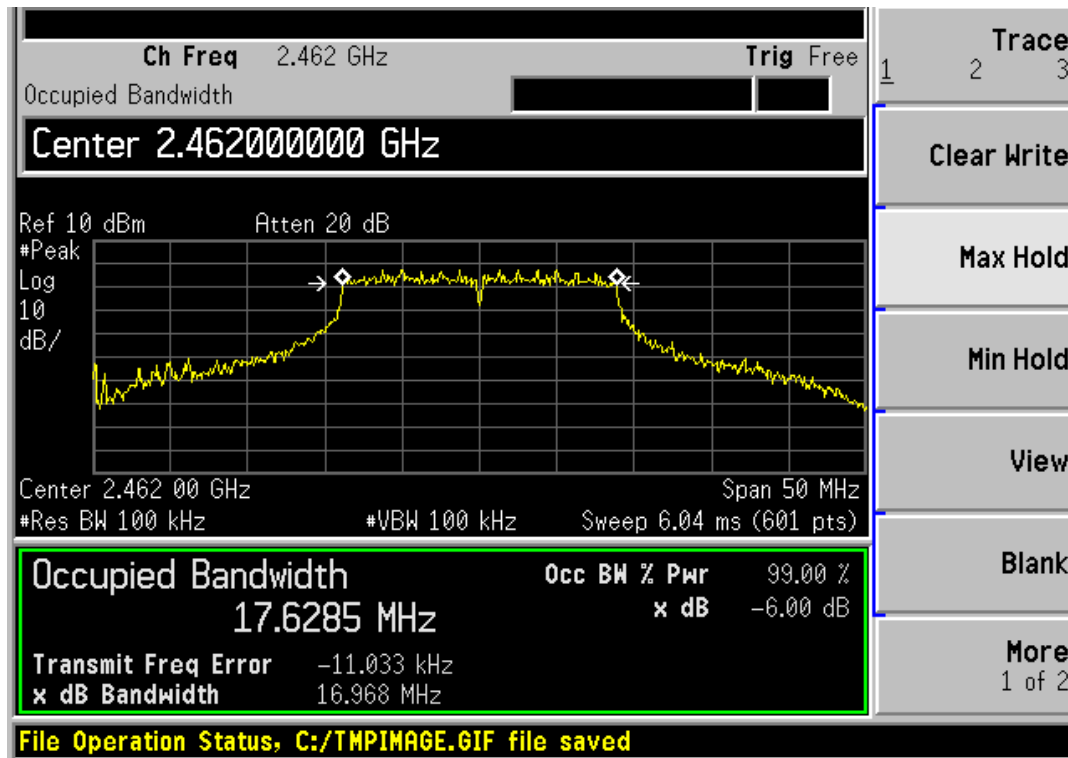
A.2.7, 802.11n-20MHz LOW CHANNEL



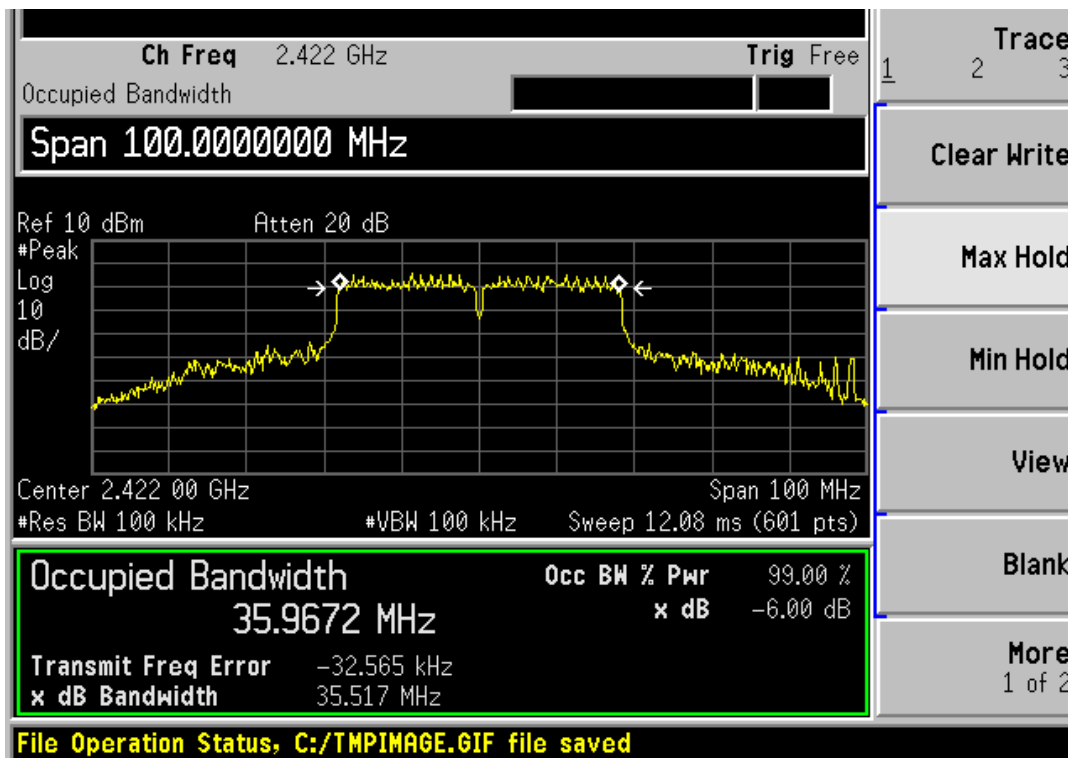
A.2.8, 802.11n-20MHz MID CHANAEL



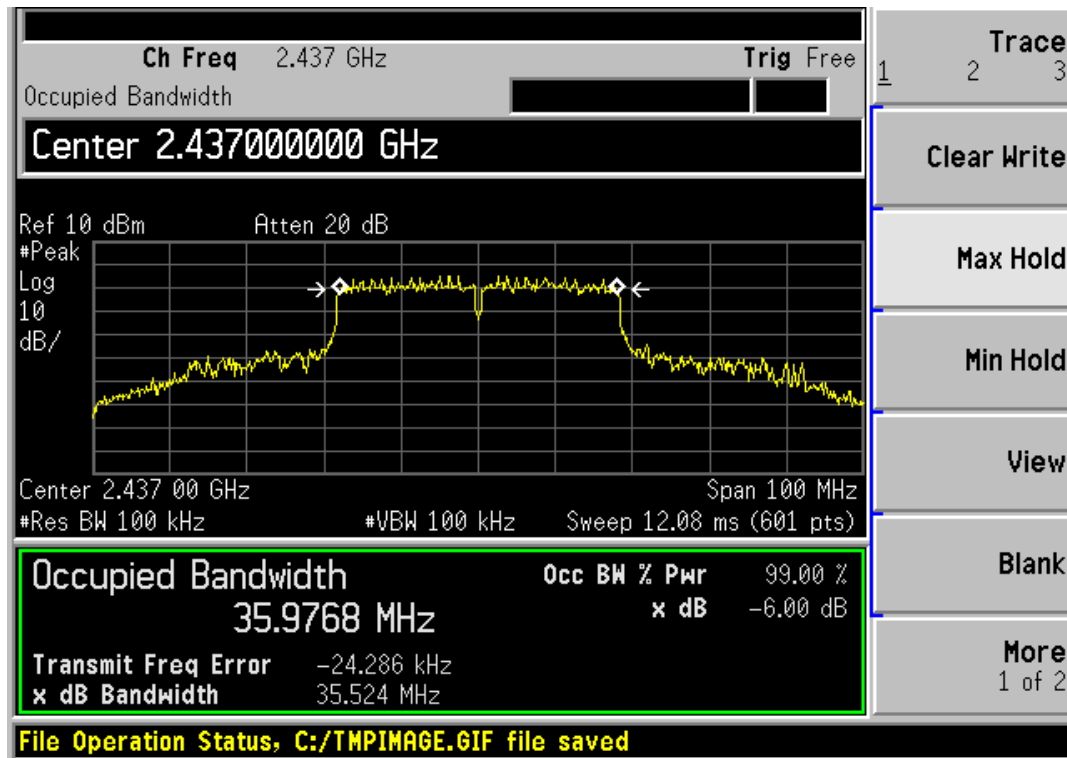
A.2.9, 802.11n-20MHz HIGH CHANNEL



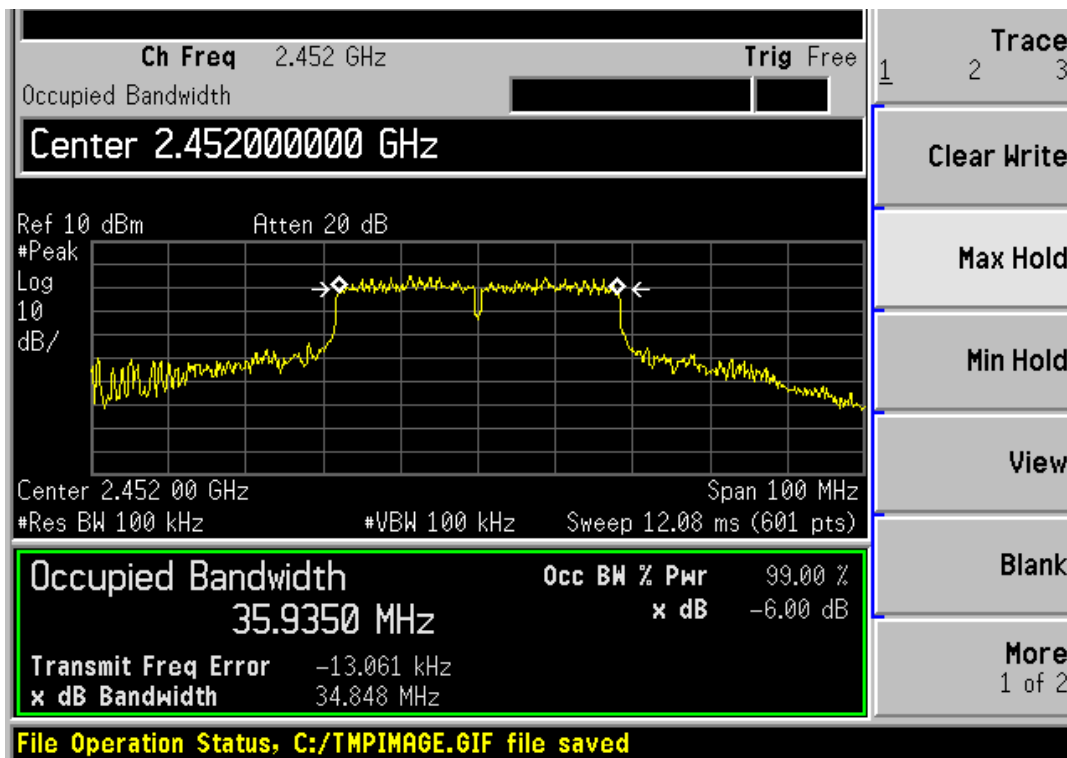
A.2.10, 802.11n-40MHz LOW CHANNEL



A.2.11, 802.11n-40MHz MID CHANAEL



A.2.12, 802.11n-40MHz HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

802.11b Mode:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated 20 dBc Limit	
1	2412	-48.28	2.94	-17.03	PASS
6	2437	-50.85	0.07	-19.93	PASS
11	2462	-42.73	0.00	-20.00	PASS

802.11g Mode:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated 20 dBc Limit	
1	2412	-54.06	-7.04	-27.04	PASS
6	2437	-52.91	-3.21	-23.21	PASS
11	2462	-53.55	-4.00	-24.00	PASS

802.11n-20MHz Mode:

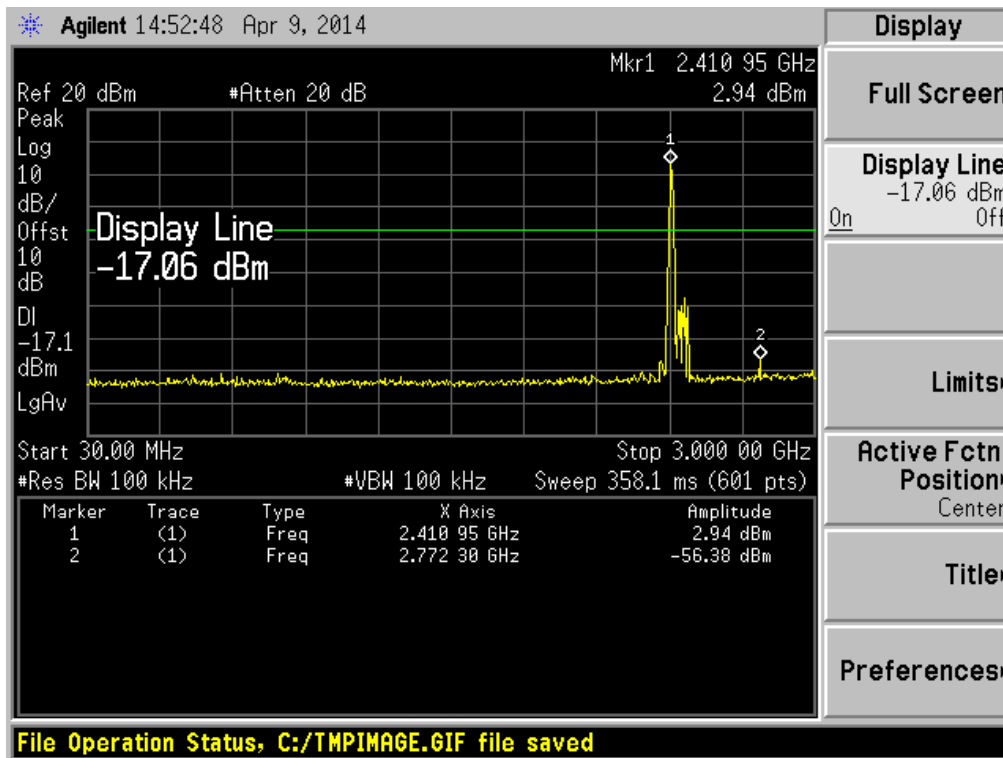
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated 20 dBc Limit	
0	2412	-52.36	-3.75	-23.75	PASS
39	2437	-54.66	-4.62	-24.62	PASS
78	2462	-50.41	-4.36	-24.36	PASS

802.11n-40MHz Mode:

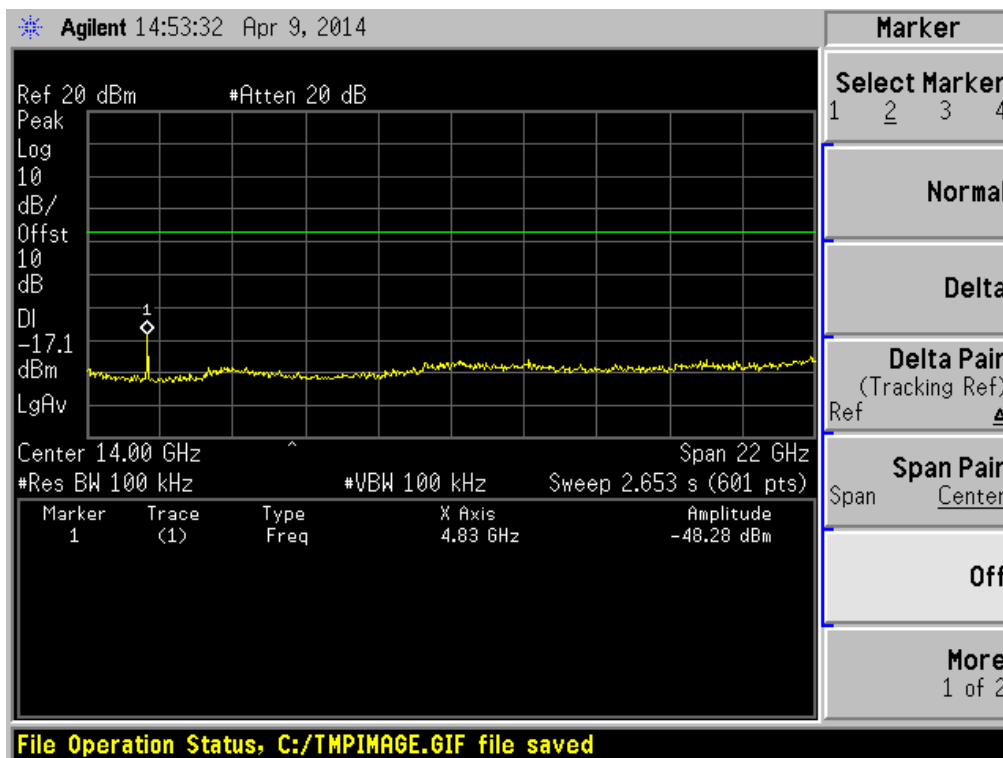
Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated 20 dBc Limit	
3	2422	-53.37	-5.23	-25.23	PASS
6	2437	-51.72	-5.95	-25.95	PASS
9	2452	-54.53	-5.49	-25.49	PASS

Test Plots

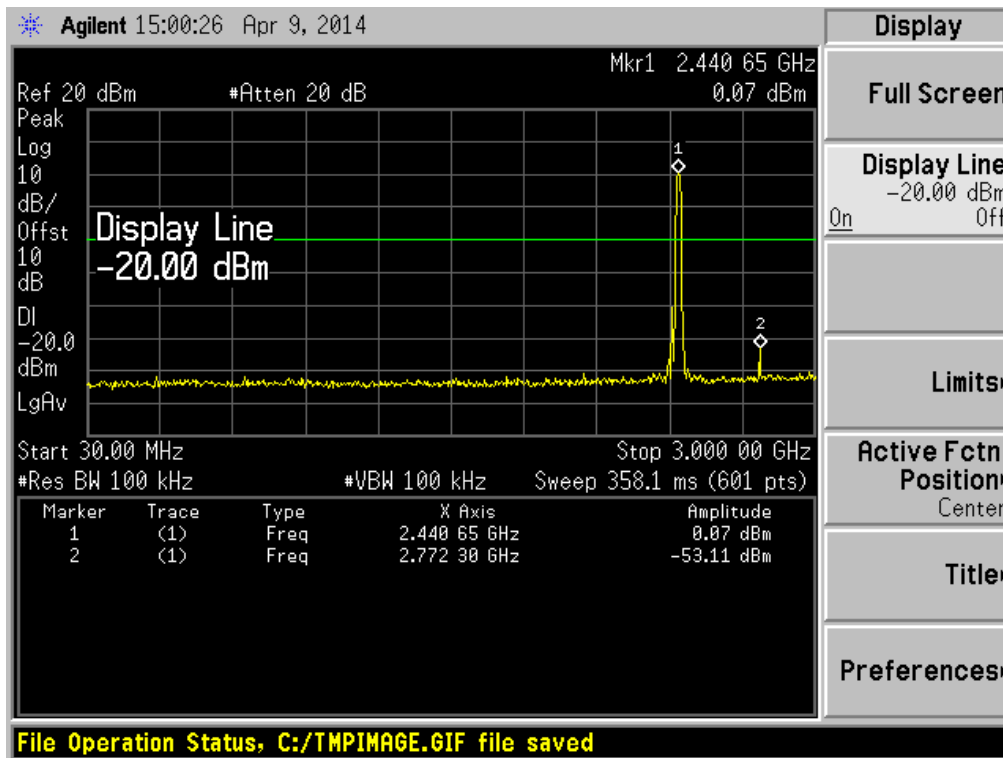
A.3.1, 802.11B LOW CHANNEL , SPURIOUS 30MHz~3GHz



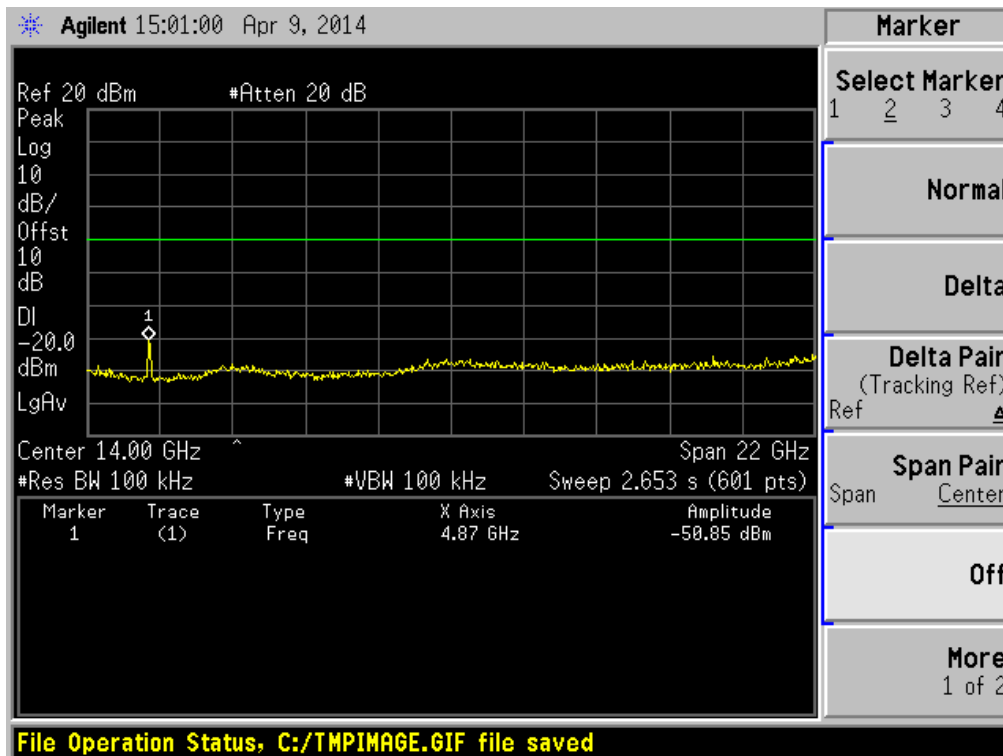
A.3.2, 802.11B LOW CHANNEL , SPURIOUS 3GHz~25GHz



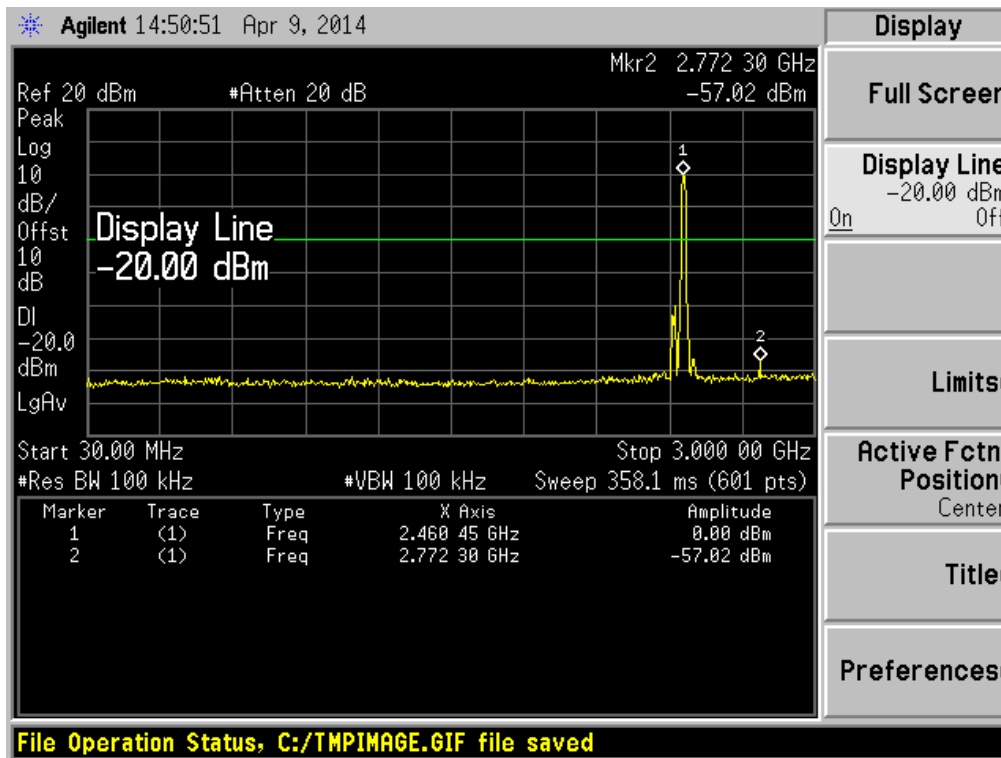
A.3.3, 802.11B MID CHANNEL , SPURIOUS 30MHz~3GHz



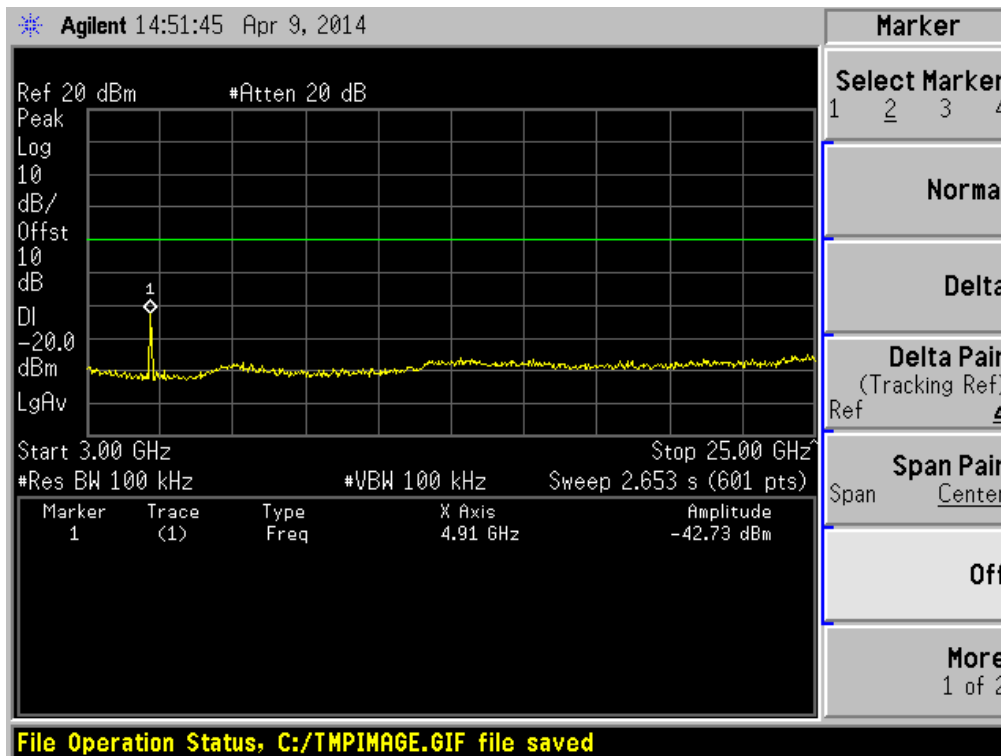
A.3.4, 802.11B MID CHANNEL , SPURIOUS 3GHz~25GHz



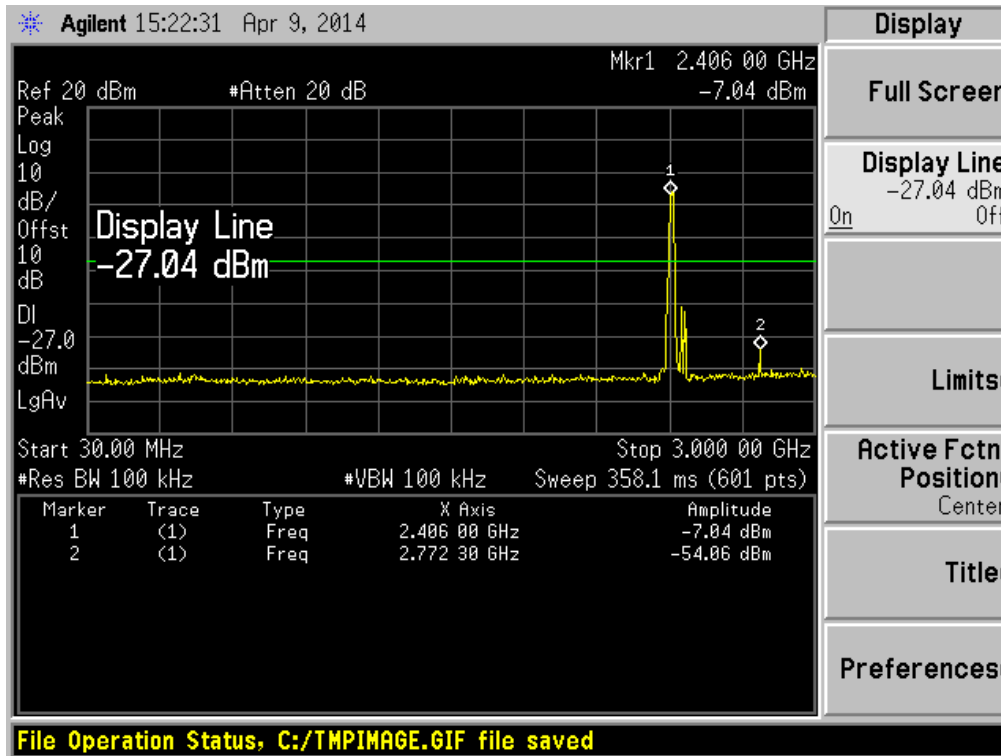
A.3.5, 802.11B HIGH CHANNEL , SPURIOUS 30MHz~3GHz



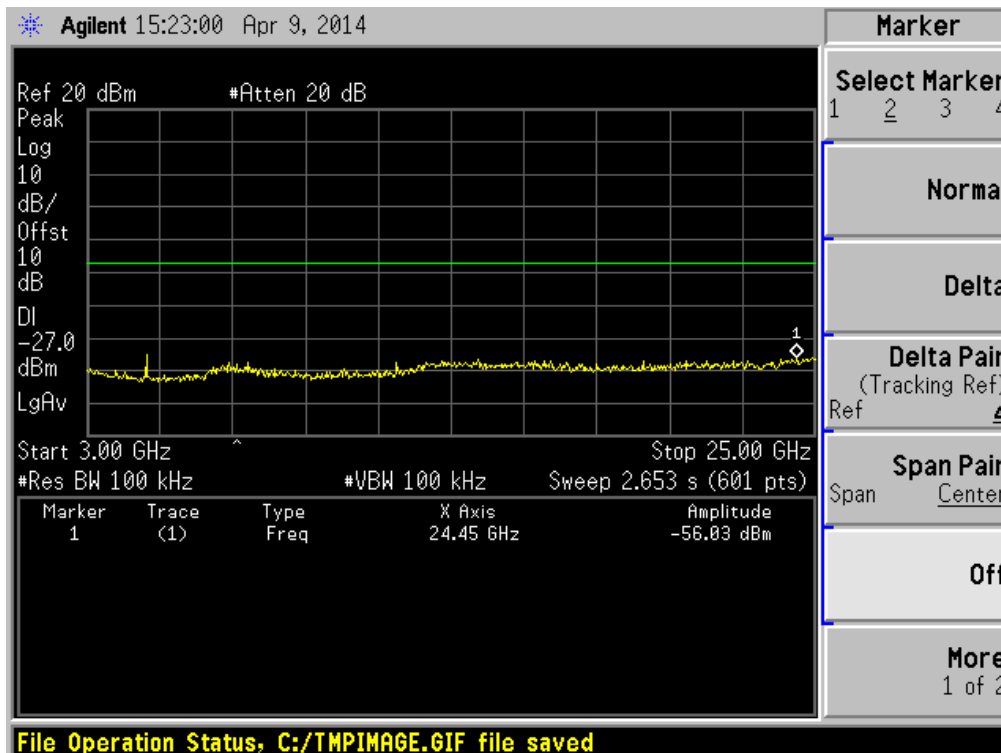
A.3.6, 802.11B HIGH CHANNEL , SPURIOUS 3GHz~25GHz



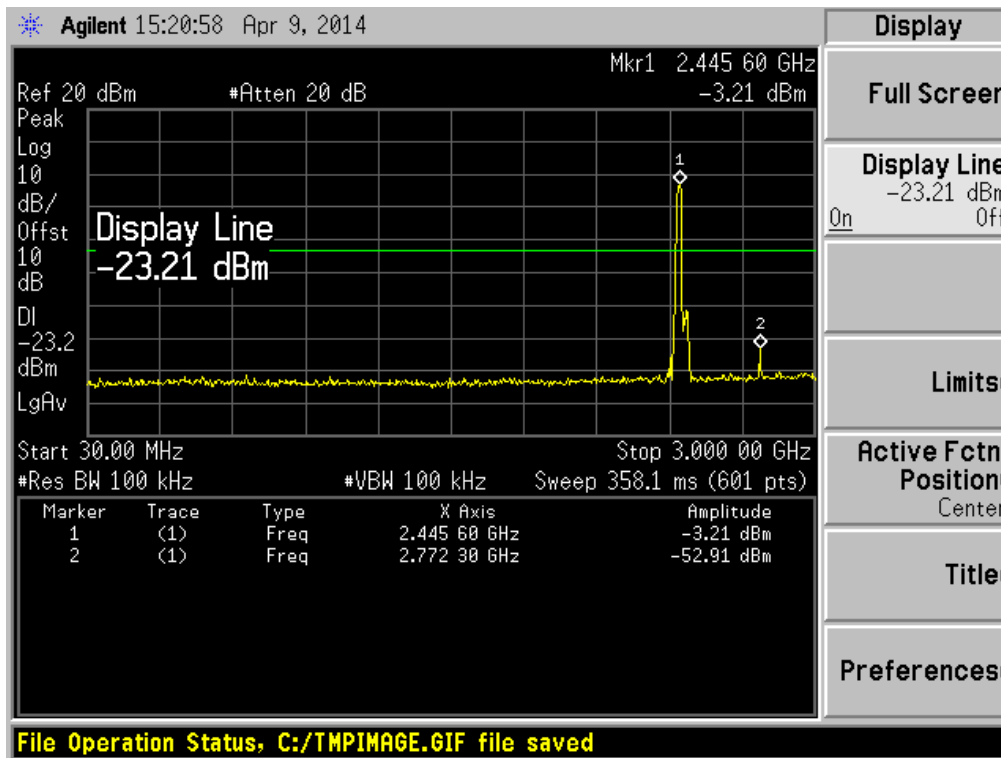
A.3.7, 802.11g LOW CHANNEL , SPURIOUS 30MHz~3GHz



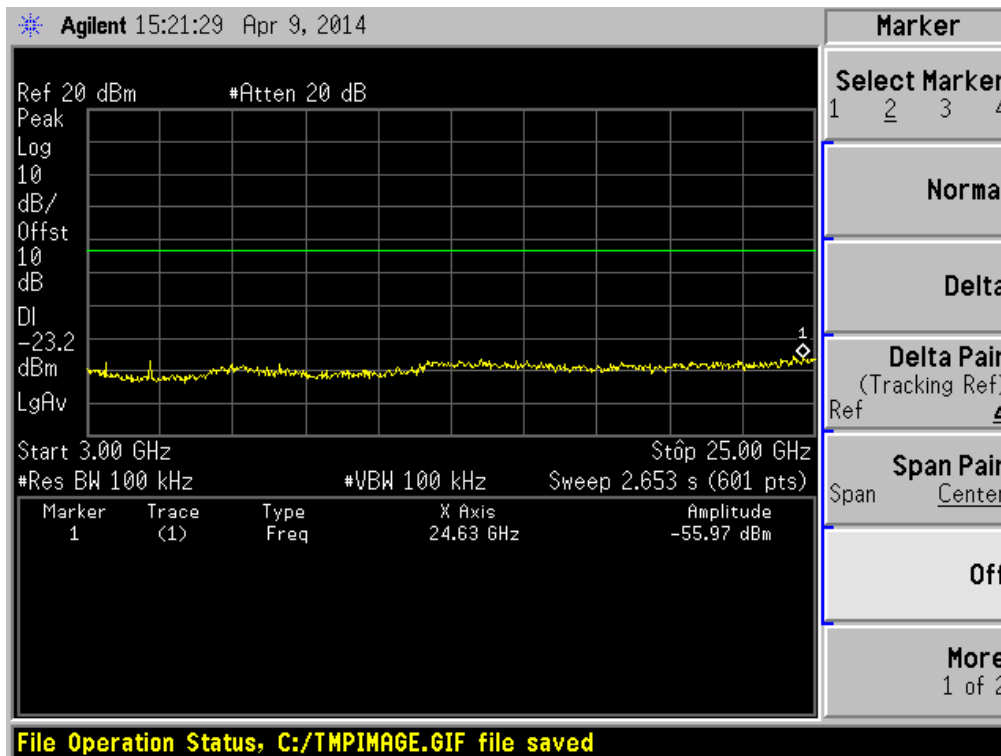
A.3.8, 802.11g LOW CHANNEL , SPURIOUS 3GHz~25GHz



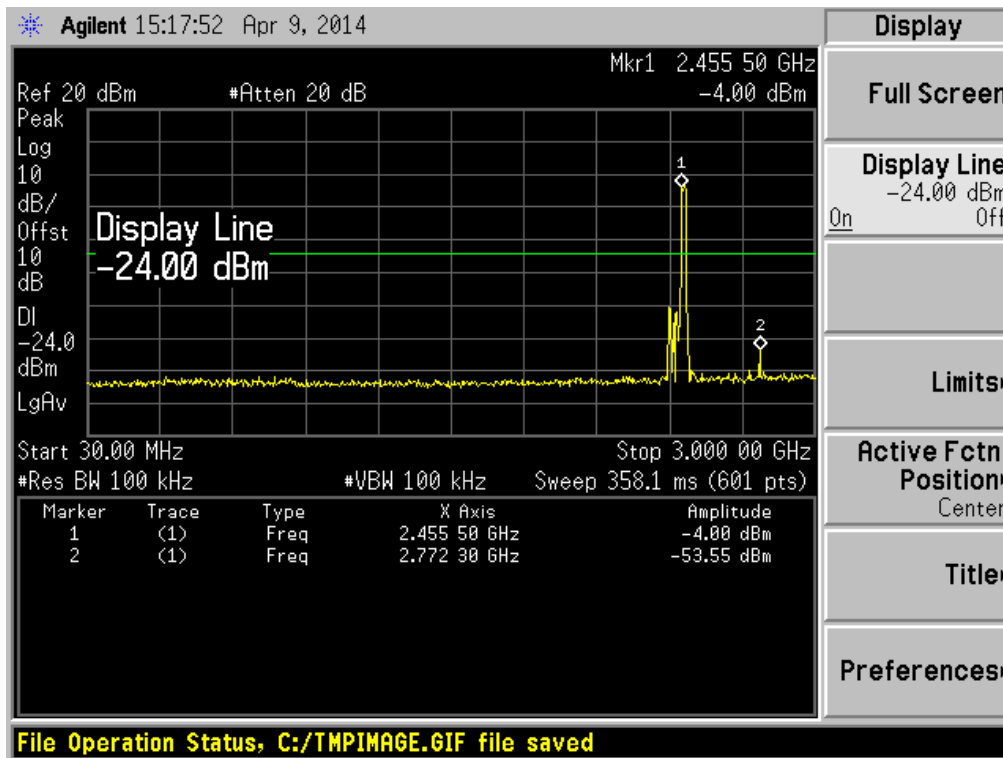
A.3.9, 802.11g MID CHANNEL , SPURIOUS 30MHz~3GHz



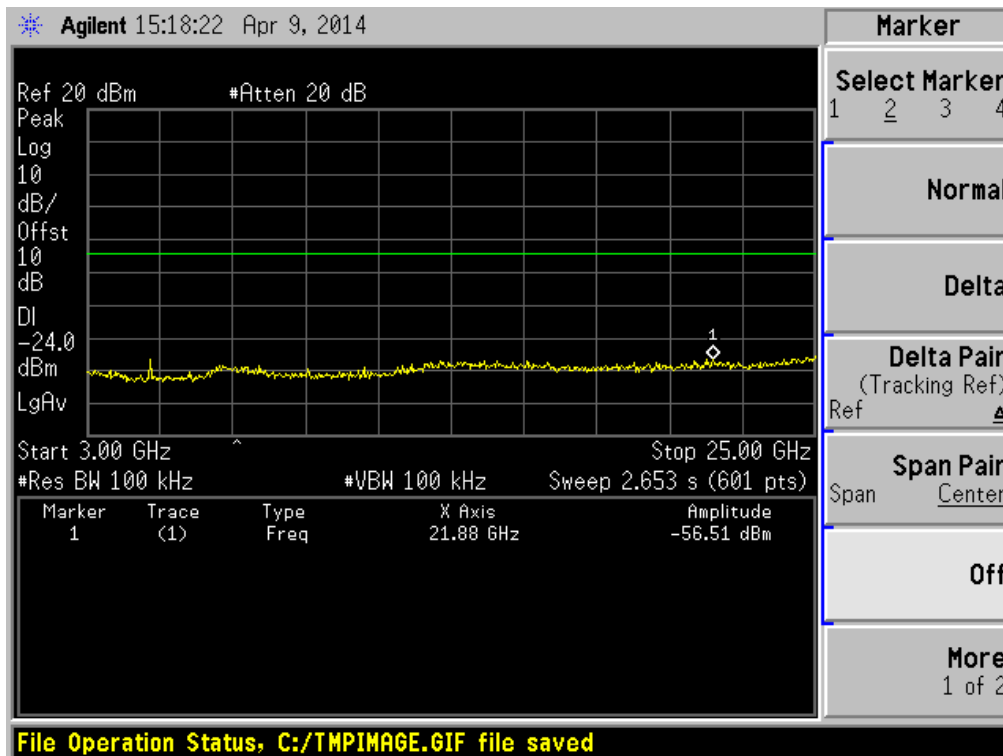
A.3.10, 802.11g MID CHANNEL , SPURIOUS 3GHz~25GHz



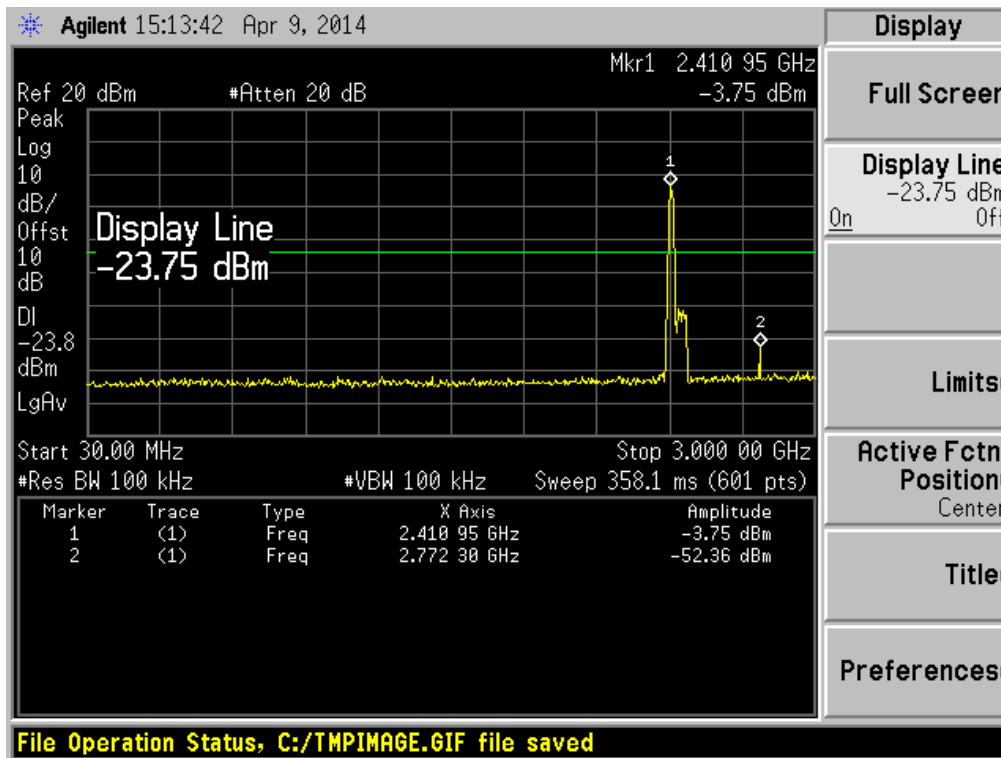
A.3.11, 802.11g HIGH CHANNEL , SPURIOUS 30MHz~3GHz



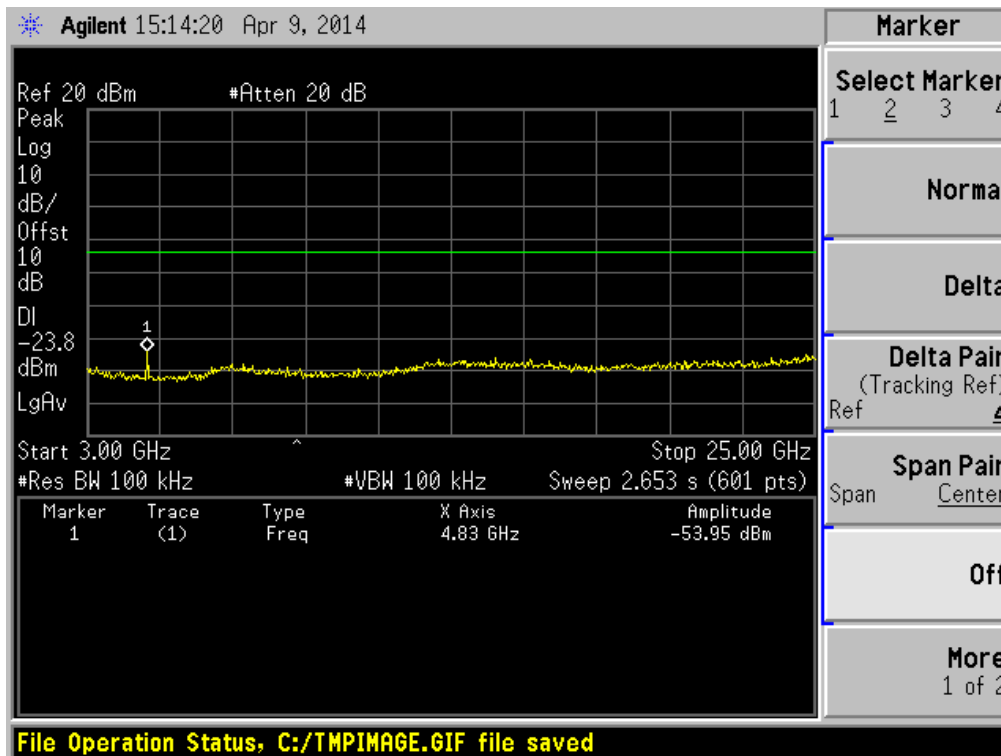
A.3.12, 802.11g HIGH CHANNEL , SPURIOUS 3GHz~25GHz



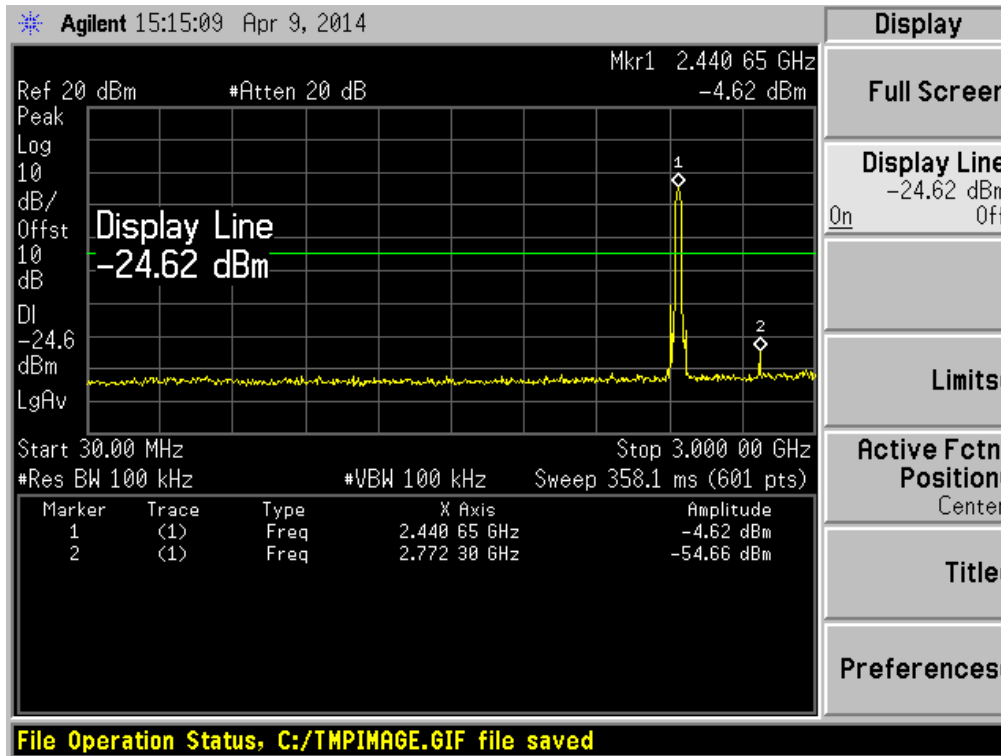
A.3.13, 802.11n-20MHz LOW CHANNEL , SPURIOUS 30MHz~3GHz



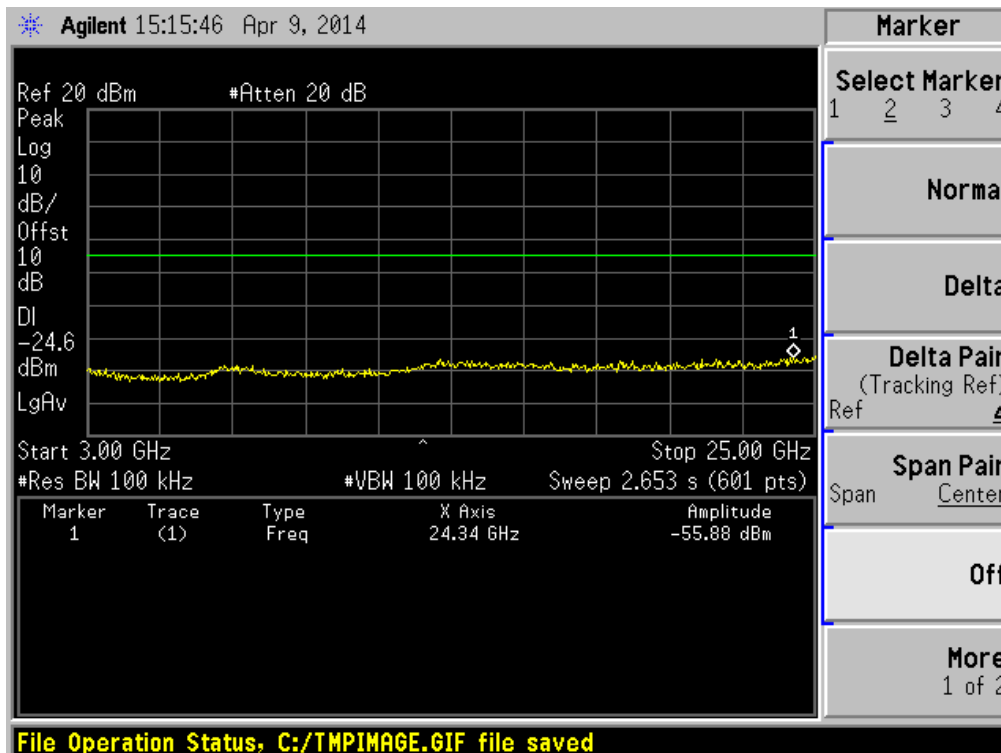
A.3.14, 802.11n-20MHz LOW CHANNEL , SPURIOUS 3GHz~25GHz



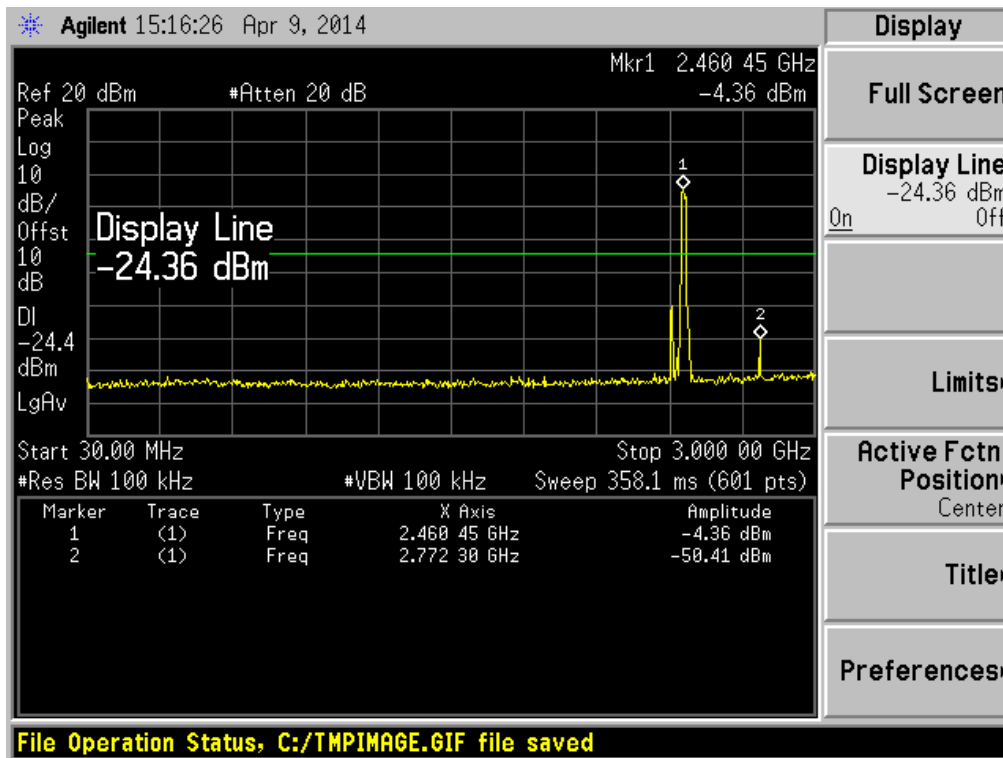
A.3.15, 802.11n-20MHz MID CHANNEL , SPURIOUS 30MHz~3GHz



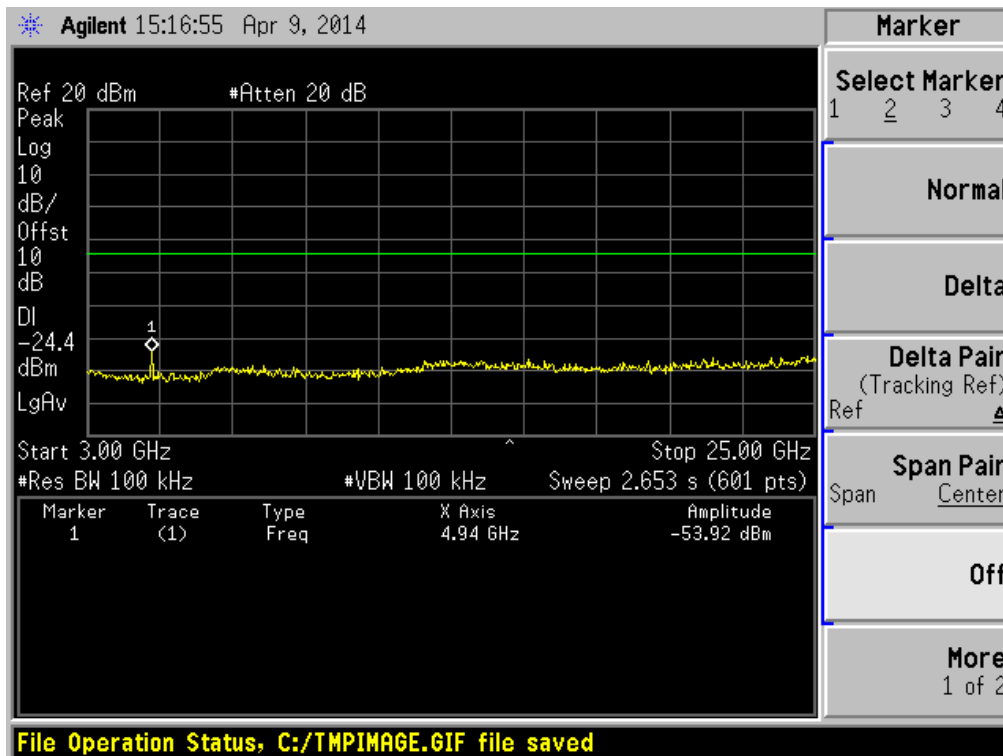
A.3.16, 802.11n-20MHz MID CHANNEL , SPURIOUS 3GHz~25GHz



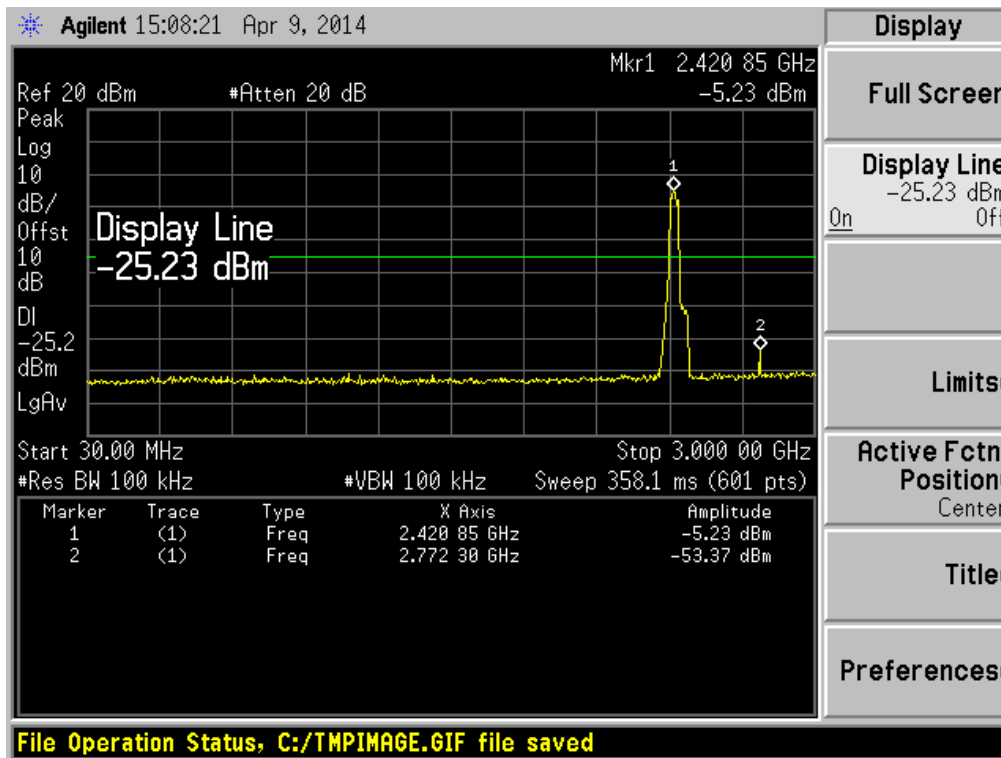
A.3.17, 802.11n-20MHz HIGH CHANNEL , SPURIOUS 30MHz~3GHz



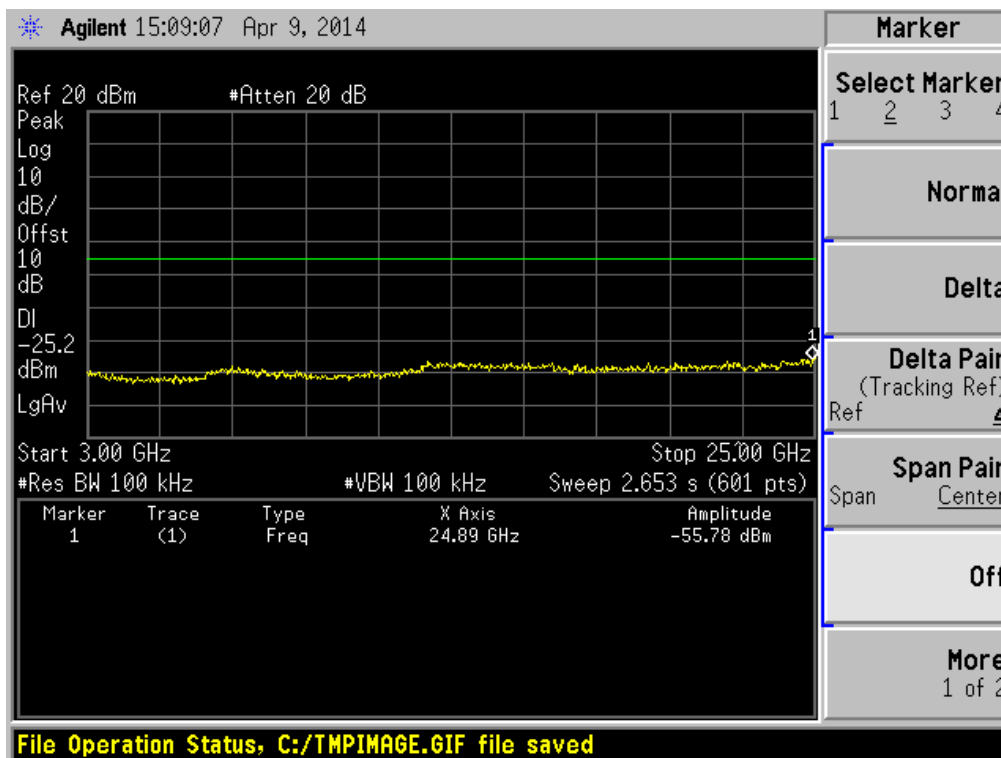
A.3.18, 802.11n-20MHz HIGH CHANNEL , SPURIOUS 3GHz~25GHz



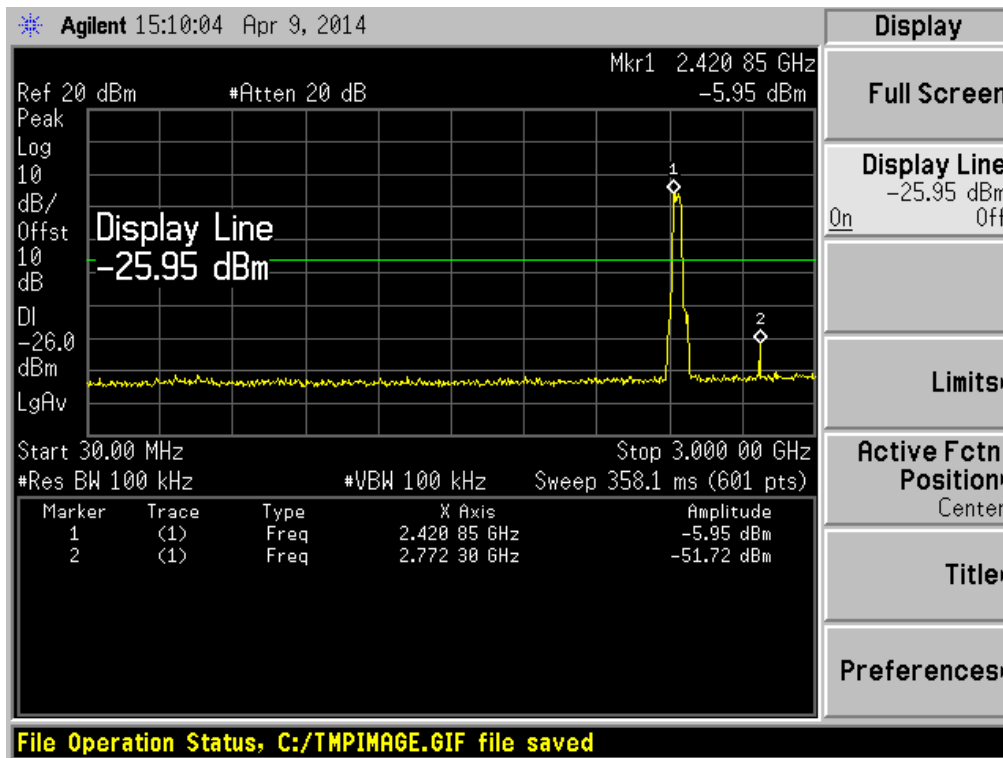
A.3.19, 802.11n-40MHz LOW CHANNEL , SPURIOUS 30MHz~3GHz



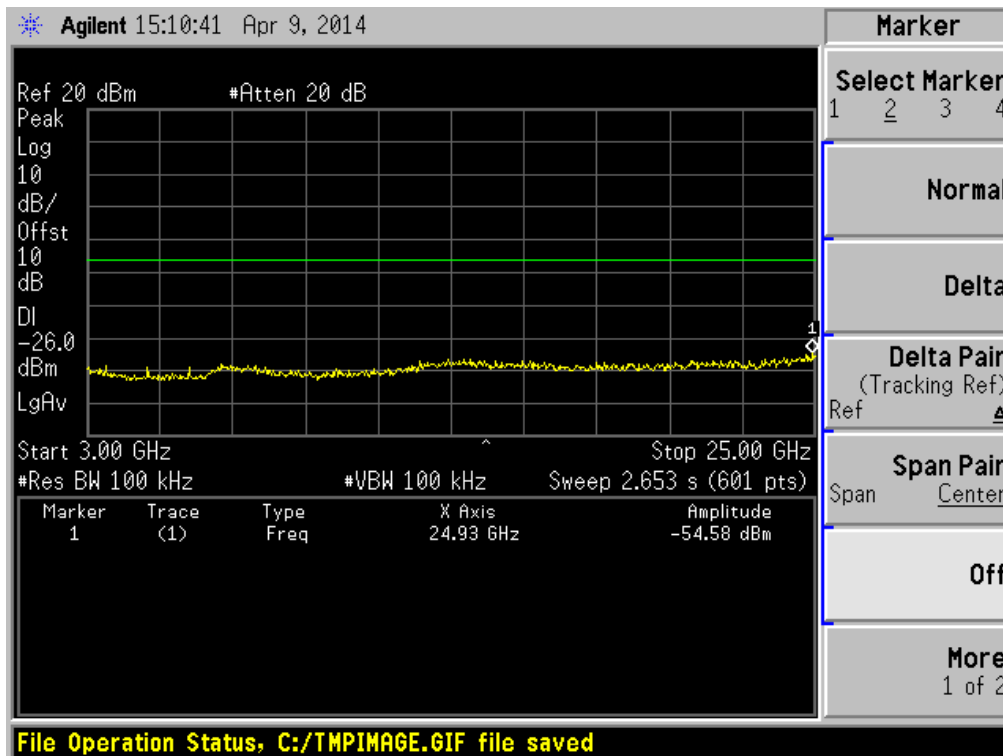
A.3.20, 802.11n-40MHz LOW CHANNEL , SPURIOUS 3GHz~25GHz



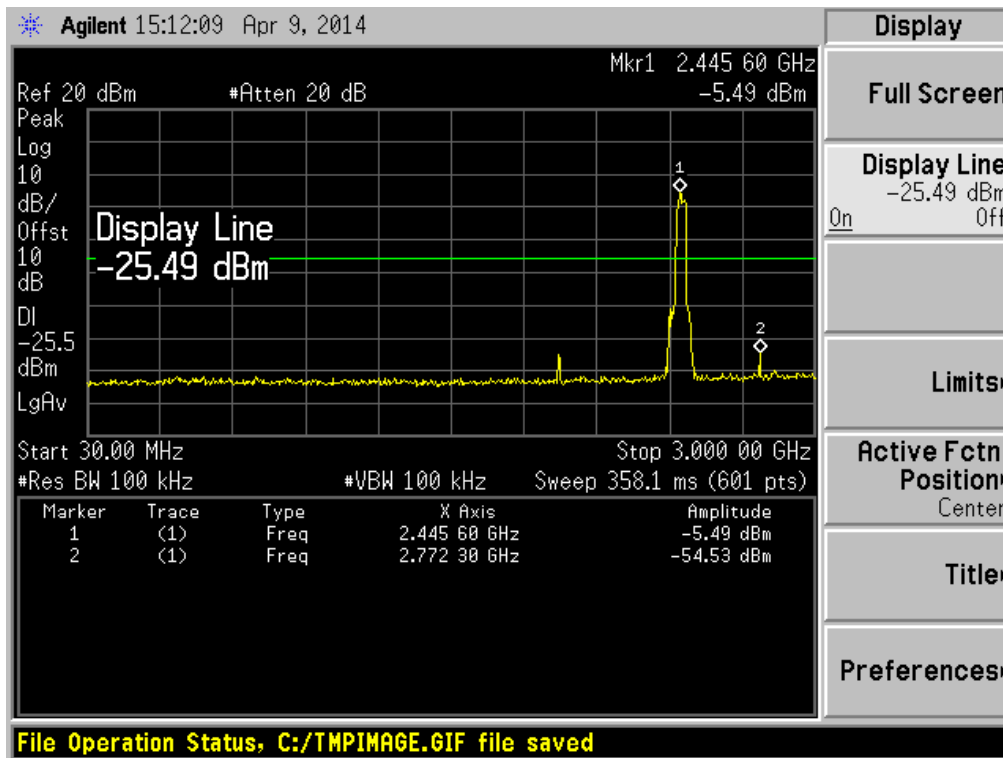
A.3.21, 802.11n-40MHz MID CHANNEL , SPURIOUS 30MHz~3GHz



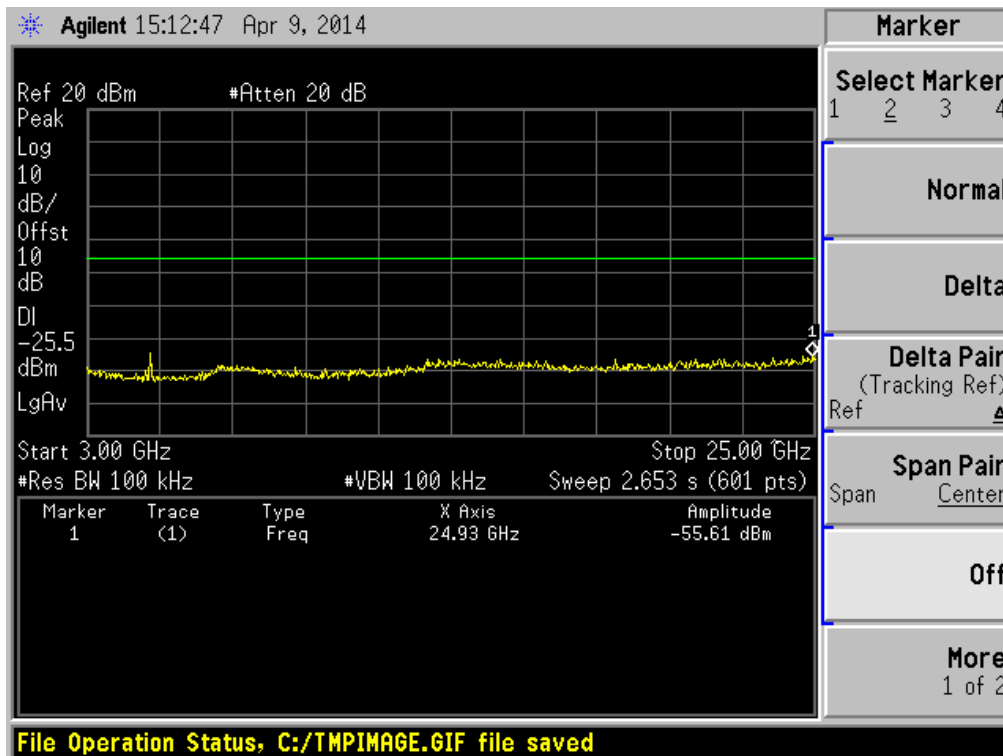
A.3.22, 802.11n-40MHz MID CHANNEL , SPURIOUS 3GHz~25GHz



A.3.23, 802.11n-40MHz HIGH CHANNEL , SPURIOUS 30MHz~3GHz



A.3.24, 802.11n-40MHz HIGH CHANNEL , SPURIOUS 3GHz~25GHz



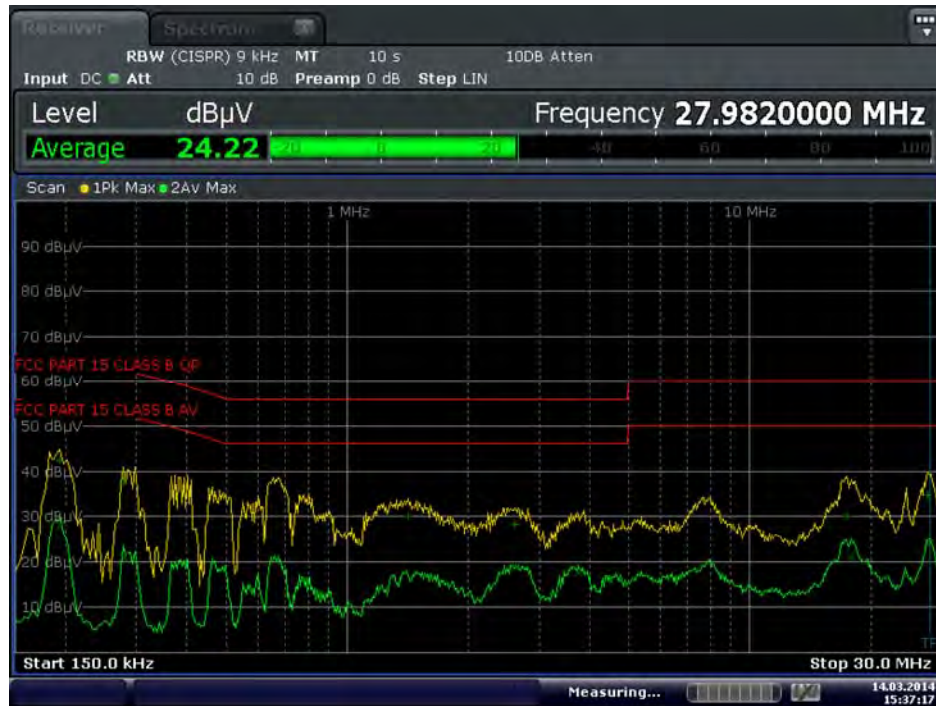
A.4 Conducted Emissions

Test Data

No.	Fre. (MHz)	Measurement Level (dBuV)	Limit (dBuV)	Margin (dB)	Phase	Detector	Verdict
1	0.194	42.61	64.74	-22.13	L	QP	PASS
2	0.194	28.04	54.74	-26.70	L	AV	PASS
3	0.278	37.53	62.34	-24.81	L	QP	PASS
4	0.278	21.01	52.34	-31.33	L	AV	PASS
5	1.422	30.18	56.00	-25.82	L	QP	PASS
6	2.610	28.16	56.00	-27.84	L	QP	PASS
7	2.634	18.62	46.00	-27.38	L	AV	PASS
8	3.746	17.62	46.00	-28.38	L	AV	PASS
9	17.454	30.11	60.00	-29.89	L	QP	PASS
10	17.886	21.34	50.00	-28.66	L	AV	PASS
11	27.762	34.65	60.00	-25.35	L	QP	PASS
12	27.982	24.14	50.00	-25.86	L	AV	PASS
No.	Fre. (MHz)	Measurement Level (dBuV)	Limit (dBuV)	Margin (dB)	Phase	Detector	Verdict
1	0.182	41.63	65.09	-23.46	N	QP	PASS
2	0.190	25.94	54.86	-28.92	N	AV	PASS
3	0.674	23.4	46.00	-22.60	N	AV	PASS
4	0.682	38.98	56.00	-17.02	N	QP	PASS
5	1.442	32.74	56.00	-23.26	N	QP	PASS
6	2.370	19.85	46.00	-26.15	N	AV	PASS
7	2.534	30.01	56.00	-25.99	N	QP	PASS
8	3.762	20.58	46.00	-25.42	N	AV	PASS
9	7.934	18.78	50.00	-31.22	N	AV	PASS
10	17.278	26.91	60.00	-33.09	N	QP	PASS
11	17.318	26.15	60.00	-33.85	N	QP	PASS
12	28.010	20.79	50.00	-29.21	N	AV	PASS

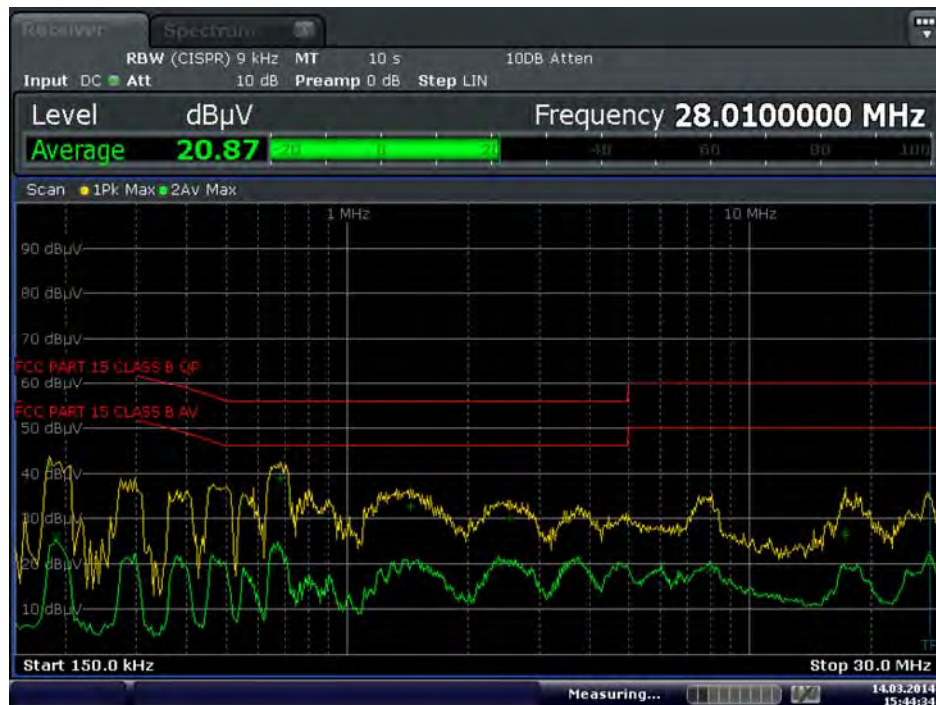
Test Plots

A.7.1, PHASE L



Date: 14.MAR.2014 15:37:17

A.7.2, PHASE N



Date: 14.MAR.2014 15:44:34

A.5 Radiated Emission

Test Data

802.11B Mode-Low Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	28.34	--	--	--	110.8	--	--	Pass
0.136	24.58	--	--	--	104.9	--	--	Pass
0.166	31.20	--	--	--	103.2	--	--	Pass
0.339	19.48	--	--	--	97.0	--	--	PASS
3.000	17.45	--	--	--	69.5	--	--	PASS
20.997	26.44	--	--	--	69.5	--	--	PASS
63.942	34.33	--	--	--	40.0	--	Vertical	PASS
127.946	39.19	--	--	--	43.5	--	Vertical	PASS
223.952	41.22	--	--	--	46.0	--	Vertical	PASS
395.841	42.95	--	--	--	46.0	--	Vertical	PASS
575.974	38.79	--	--	--	46.0	--	Vertical	PASS
703.982	39.26	--	--	--	46.0	--	Vertical	PASS
32.424	33.27	--	--	--	40.0	--	Horizontal	PASS
63.942	33.65	--	--	--	40.0	--	Horizontal	PASS
127.703	40.24	--	--	--	43.5	--	Horizontal	PASS
230.012	35.02	--	--	--	46.0	--	Horizontal	PASS
575.974	43.38	--	--	--	46.0	--	Horizontal	PASS
703.982	41.20	--	--	--	46.0	--	Horizontal	PASS
1187.953	52.02	--	--	74.0	--	54.0	Vertical	PASS
1727.818	38.10	--	--	74.0	--	54.0	Vertical	PASS
1980.255	45.35	--	--	74.0	--	54.0	Vertical	N/A
2411.647	105.92	--	--	74.0	--	54.0	Vertical	PASS
2772.557	45.86	--	--	74.0	--	54.0	Vertical	PASS
4823.544	53.99	--	--	74.0	--	54.0	Vertical	PASS
1187.953	49.01	--	--	74.0	--	54.0	Horizontal	PASS
1472.382	37.51	--	--	74.0	--	54.0	Horizontal	PASS
1980.255	46.55	--	--	74.0	--	54.0	Horizontal	N/A
2413.647	100.49	--	--	74.0	--	54.0	Horizontal	PASS
2772.557	45.05	--	--	74.0	--	54.0	Horizontal	PASS
4823.544	57.01	--	--	74.0	--	54.0	Horizontal	PASS
7106.489	48.57	--	--	74.0	--	54.0	Vertical	PASS
8276.206	47.81	--	--	74.0	--	54.0	Vertical	PASS
9319.468	47.76	--	--	74.0	--	54.0	Vertical	PASS
11564.060	47.74	--	--	74.0	--	54.0	Vertical	PASS
15673.877	49.55	--	--	74.0	--	54.0	Vertical	PASS
20858.569	48.63	--	--	74.0	--	54.0	Vertical	PASS
22407.654	48.90	--	--	74.0	--	54.0	Horizontal	PASS
18108.153	46.65	--	--	74.0	--	54.0	Horizontal	PASS
13966.722	49.66	--	--	74.0	--	54.0	Horizontal	PASS

11279.534	46.70	--	--	74.0	--	54.0	Horizontal	PASS
9161.398	47.67	--	--	74.0	--	54.0	Horizontal	PASS
6727.121	48.25	--	--	74.0	--	54.0	Horizontal	PASS
802.11B Mode-Mid Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	29.15	--	--	--	110.8	--	--	PASS
0.136	22.51	--	--	--	104.9	--	--	PASS
0.166	31.13	--	--	--	103.2	--	--	PASS
0.339	17.86	--	--	--	97.0	--	--	PASS
6.995	18.18	--	--	--	69.5	--	--	PASS
16.995	23.35	--	--	--	69.5	--	--	PASS
32.424	36.41	--	--	--	40.0	--	Vertical	PASS
63.942	31.99	--	--	--	40.0	--	Vertical	PASS
127.946	40.06	--	--	--	43.5	--	Vertical	PASS
230.982	35.38	--	--	--	46.0	--	Vertical	PASS
575.974	43.97	--	--	--	46.0	--	Vertical	PASS
703.982	43.75	--	--	--	46.0	--	Vertical	PASS
63.942	34.18	--	--	--	40.0	--	Horizontal	PASS
127.946	38.99	--	--	--	43.5	--	Horizontal	PASS
225.406	38.10	--	--	--	46.0	--	Horizontal	PASS
395.841	43.18	--	--	--	46.0	--	Horizontal	PASS
575.974	39.24	--	--	--	46.0	--	Horizontal	PASS
703.982	39.09	--	--	--	46.0	--	Horizontal	PASS
1188.453	53.11	--	--	74.0	--	54.0	Vertical	PASS
1980.755	47.41	--	--	74.0	--	54.0	Vertical	PASS
2435.641	105.10	--	--	74.0	--	54.0	Vertical	N/A
2772.057	44.86	--	--	74.0	--	54.0	Vertical	PASS
4198.200	46.87	--	--	74.0	--	54.0	Vertical	PASS
4873.782	53.79	--	--	74.0	--	54.0	Vertical	PASS
1188.453	53.27	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	48.20	--	--	74.0	--	54.0	Horizontal	PASS
2438.640	98.61	--	--	74.0	--	54.0	Horizontal	N/A
2631.592	46.23	--	--	74.0	--	54.0	Horizontal	PASS
3533.867	44.30	--	--	74.0	--	54.0	Horizontal	PASS
4873.782	55.21	--	--	74.0	--	54.0	Horizontal	PASS
7043.261	48.73	--	--	74.0	--	54.0	Vertical	PASS
7675.541	49.10	--	--	74.0	--	54.0	Vertical	PASS
9540.765	48.45	--	--	74.0	--	54.0	Vertical	PASS
10742.097	47.24	--	--	74.0	--	54.0	Vertical	PASS
15294.509	49.41	--	--	74.0	--	54.0	Vertical	PASS
19151.414	49.19	--	--	74.0	--	54.0	Vertical	PASS
6569.052	48.47	--	--	74.0	--	54.0	Horizontal	PASS
7612.313	49.37	--	--	74.0	--	54.0	Horizontal	PASS
8750.416	48.26	--	--	74.0	--	54.0	Horizontal	PASS

10615.641	48.43	--	--	74.0	--	54.0	Horizontal	PASS
12702.163	49.25	--	--	74.0	--	54.0	Horizontal	PASS
15768.719	49.17	--	--	74.0	--	54.0	Horizontal	PASS
802.11B Mode-High Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	27.73	--	--	--	110.8	--	--	PASS
0.136	27.13	--	--	--	104.9	--	--	PASS
0.166	28.68	--	--	--	103.2	--	--	PASS
0.339	18.98	--	--	--	97.0	--	--	PASS
2.790	14.01	--	--	--	69.5	--	--	PASS
20.997	24.64	--	--	--	69.5	--	--	PASS
63.942	33.94	--	--	--	40.0	--	Vertical	PASS
127.946	38.52	--	--	--	43.5	--	Vertical	PASS
223.952	36.65	--	--	--	46.0	--	Vertical	PASS
395.841	42.66	--	--	--	46.0	--	Vertical	PASS
575.974	38.91	--	--	--	46.0	--	Vertical	PASS
703.982	39.22	--	--	--	46.0	--	Vertical	PASS
32.182	35.33	--	--	--	40.0	--	Horizontal	PASS
57.396	34.14	--	--	--	40.0	--	Horizontal	PASS
127.946	39.81	--	--	--	43.5	--	Horizontal	PASS
223.952	35.94	--	--	--	46.0	--	Horizontal	PASS
575.974	43.51	--	--	--	46.0	--	Horizontal	PASS
703.982	43.02	--	--	--	46.0	--	Horizontal	PASS
1188.453	53.40	--	--	74.0	--	54.0	Vertical	PASS
1979.755	45.02	--	--	74.0	--	54.0	Vertical	PASS
2461.635	105.21	--	--	74.0	--	54.0	Vertical	N/A
2772.057	44.76	--	--	74.0	--	54.0	Vertical	PASS
3878.780	46.43	--	--	74.0	--	54.0	Vertical	PASS
4924.019	54.58	--	--	74.0	--	54.0	Vertical	PASS
1187.953	49.50	--	--	74.0	--	54.0	Horizontal	PASS
1638.340	37.50	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	49.85	--	--	74.0	--	54.0	Horizontal	N/A
2463.134	98.15	--	--	74.0	--	54.0	Horizontal	PASS
2772.057	45.20	--	--	74.0	--	54.0	Horizontal	PASS
4924.019	53.55	--	--	74.0	--	54.0	Horizontal	PASS
7138.103	49.43	--	--	74.0	--	54.0	Vertical	PASS
7833.611	49.08	--	--	74.0	--	54.0	Vertical	PASS
10425.957	47.70	--	--	74.0	--	54.0	Vertical	PASS
13397.671	49.71	--	--	74.0	--	54.0	Vertical	PASS
14440.932	50.65	--	--	74.0	--	54.0	Vertical	PASS
15705.491	49.66	--	--	74.0	--	54.0	Vertical	PASS
7106.489	49.50	--	--	74.0	--	54.0	Horizontal	PASS
7991.681	49.27	--	--	74.0	--	54.0	Horizontal	PASS
9224.626	47.94	--	--	74.0	--	54.0	Horizontal	PASS

10552.413	48.43	--	--	74.0	--	54.0	Horizontal	PASS
14440.932	50.25	--	--	74.0	--	54.0	Horizontal	PASS
19594.010	48.27	--	--	74.0	--	54.0	Horizontal	PASS

802.11g Mode-Low Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	28.00	--	--	--	110.8	--	--	PASS
0.136	23.35	--	--	--	104.9	--	--	PASS
0.166	30.58	--	--	--	103.2	--	--	PASS
0.339	18.66	--	--	--	97.0	--	--	PASS
3.000	17.15	--	--	--	69.5	--	--	PASS
20.997	23.81	--	--	--	69.5	--	--	PASS
31.940	33.97	--	--	--	40.0	--	Vertical	PASS
63.942	33.71	--	--	--	40.0	--	Vertical	PASS
127.703	39.15	--	--	--	43.5	--	Vertical	PASS
228.073	35.28	--	--	--	46.0	--	Vertical	PASS
575.974	43.60	--	--	--	46.0	--	Vertical	PASS
703.982	41.40	--	--	--	46.0	--	Vertical	PASS
63.942	33.23	--	--	--	40.0	--	Horizontal	PASS
127.946	38.84	--	--	--	43.5	--	Horizontal	PASS
223.952	38.07	--	--	--	46.0	--	Horizontal	PASS
395.841	44.05	--	--	--	46.0	--	Horizontal	PASS
575.974	39.28	--	--	--	46.0	--	Horizontal	PASS
703.982	39.29	--	--	--	46.0	--	Horizontal	PASS
1187.953	55.98	--	--	74.0	--	54.0	Vertical	PASS
1980.255	44.19	--	--	74.0	--	54.0	Vertical	PASS
2417.146	102.21	--	--	74.0	--	54.0	Vertical	N/A
2772.057	45.61	--	--	74.0	--	54.0	Vertical	PASS
3563.859	45.20	--	--	74.0	--	54.0	Vertical	PASS
4815.296	52.41	--	--	74.0	--	54.0	Vertical	PASS
1188.953	48.45	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	46.73	--	--	74.0	--	54.0	Horizontal	PASS
2406.148	98.43	--	--	74.0	--	54.0	Horizontal	PASS
2772.557	45.24	--	--	74.0	--	54.0	Horizontal	N/A
3222.694	45.01	--	--	74.0	--	54.0	Horizontal	PASS
4816.046	52.97	--	--	74.0	--	54.0	Horizontal	PASS
7074.875	48.67	--	--	74.0	--	54.0	Vertical	PASS
8276.206	48.41	--	--	74.0	--	54.0	Vertical	PASS
9034.942	48.37	--	--	74.0	--	54.0	Vertical	PASS
10584.027	47.14	--	--	74.0	--	54.0	Vertical	PASS
13302.829	50.36	--	--	74.0	--	54.0	Vertical	PASS
14567.388	50.39	--	--	74.0	--	54.0	Vertical	PASS
7485.857	49.36	--	--	74.0	--	54.0	Horizontal	PASS
8149.750	49.01	--	--	74.0	--	54.0	Horizontal	PASS

10489.185	47.49	--	--	74.0	--	54.0	Horizontal	PASS
12986.689	48.77	--	--	74.0	--	54.0	Horizontal	PASS
15389.351	49.60	--	--	74.0	--	54.0	Horizontal	PASS
21554.077	49.55	--	--	74.0	--	54.0	Horizontal	PASS
802.11g Mode-Mid Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	29.16	--	--	--	110.8	--	--	PASS
0.136	24.10	--	--	--	104.9	--	--	PASS
0.166	30.52	--	--	--	103.2	--	--	PASS
0.339	16.04	--	--	--	97.0	--	--	PASS
6.995	19.01	--	--	--	69.5	--	--	PASS
16.995	24.37	--	--	--	69.5	--	--	PASS
63.942	33.38	--	--	--	40.0	--	Vertical	PASS
127.946	39.55	--	--	--	43.5	--	Vertical	PASS
222.497	35.80	--	--	--	46.0	--	Vertical	PASS
395.841	45.26	--	--	--	46.0	--	Vertical	PASS
575.974	38.92	--	--	--	46.0	--	Vertical	PASS
703.982	39.26	--	--	--	46.0	--	Vertical	PASS
32.424	34.26	--	--	--	40.0	--	Horizontal	PASS
57.881	33.59	--	--	--	40.0	--	Horizontal	PASS
127.703	40.22	--	--	--	43.5	--	Horizontal	PASS
223.952	39.27	--	--	--	46.0	--	Horizontal	PASS
395.841	41.55	--	--	--	46.0	--	Horizontal	PASS
575.974	43.47	--	--	--	46.0	--	Horizontal	PASS
1187.953	48.58	--	--	74.0	--	54.0	Vertical	PASS
1364.909	46.48	--	--	74.0	--	54.0	Vertical	PASS
1979.755	46.47	--	--	74.0	--	54.0	Vertical	N/A
2435.141	97.31	--	--	74.0	--	54.0	Vertical	PASS
2772.557	46.03	--	--	74.0	--	54.0	Vertical	PASS
4875.281	51.52	--	--	74.0	--	54.0	Vertical	PASS
1187.953	48.58	--	--	74.0	--	54.0	Horizontal	PASS
1364.909	46.48	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	46.47	--	--	74.0	--	54.0	Horizontal	N/A
2435.141	97.31	--	--	74.0	--	54.0	Horizontal	PASS
2772.557	46.03	--	--	74.0	--	54.0	Horizontal	PASS
4875.281	51.52	--	--	74.0	--	54.0	Horizontal	PASS
6221.298	48.78	--	--	74.0	--	54.0	Vertical	PASS
7169.717	49.99	--	--	74.0	--	54.0	Vertical	PASS
8497.504	48.39	--	--	74.0	--	54.0	Vertical	PASS
10900.166	47.44	--	--	74.0	--	54.0	Vertical	PASS
13302.829	49.81	--	--	74.0	--	54.0	Vertical	PASS
17918.469	48.90	--	--	74.0	--	54.0	Vertical	PASS
7138.103	49.37	--	--	74.0	--	54.0	Horizontal	PASS
8212.978	49.57	--	--	74.0	--	54.0	Horizontal	PASS

9603.993	48.06	--	--	74.0	--	54.0	Horizontal	PASS
11469.218	47.50	--	--	74.0	--	54.0	Horizontal	PASS
14788.686	49.62	--	--	74.0	--	54.0	Horizontal	PASS
19846.922	49.10	--	--	74.0	--	54.0	Horizontal	PASS
802.11g Mode-High Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.024	9.47	--	--	--	110.8	--	--	PASS
0.069	26.09	--	--	--	104.9	--	--	PASS
0.166	26.10	--	--	--	103.2	--	--	PASS
4.994	17.29	--	--	--	97.0	--	--	PASS
18.996	23.47	--	--	--	69.5	--	--	PASS
20.997	26.04	--	--	--	69.5	--	--	PASS
31.940	35.03	--	--	--	40.0	--	Vertical	PASS
63.942	33.74	--	--	--	40.0	--	Vertical	PASS
127.946	38.96	--	--	--	43.5	--	Vertical	PASS
223.952	37.97	--	--	--	46.0	--	Vertical	PASS
395.841	41.98	--	--	--	46.0	--	Vertical	PASS
575.974	43.53	--	--	--	46.0	--	Vertical	PASS
63.942	33.94	--	--	--	40.0	--	Horizontal	PASS
127.946	38.26	--	--	--	43.5	--	Horizontal	PASS
223.952	37.61	--	--	--	46.0	--	Horizontal	PASS
395.841	41.43	--	--	--	46.0	--	Horizontal	PASS
575.974	38.78	--	--	--	46.0	--	Horizontal	PASS
703.982	39.78	--	--	--	46.0	--	Horizontal	PASS
1187.953	51.60	--	--	74.0	--	54.0	Vertical	PASS
1980.255	42.68	--	--	74.0	--	54.0	Vertical	PASS
2456.636	101.19	--	--	74.0	--	54.0	Vertical	N/A
2772.057	47.05	--	--	74.0	--	54.0	Vertical	PASS
3643.339	44.99	--	--	74.0	--	54.0	Vertical	PASS
4921.020	49.62	--	--	74.0	--	54.0	Vertical	PASS
1188.453	50.67	--	--	74.0	--	54.0	Horizontal	PASS
1980.255	46.62	--	--	74.0	--	54.0	Horizontal	PASS
2458.135	95.81	--	--	74.0	--	54.0	Horizontal	N/A
2772.557	45.24	--	--	74.0	--	54.0	Horizontal	PASS
3969.508	46.04	--	--	74.0	--	54.0	Horizontal	PASS
4923.269	50.94	--	--	74.0	--	54.0	Horizontal	PASS
7169.717	48.27	--	--	74.0	--	54.0	Vertical	PASS
7865.225	48.60	--	--	74.0	--	54.0	Vertical	PASS
8876.872	48.76	--	--	74.0	--	54.0	Vertical	PASS
10552.413	48.26	--	--	74.0	--	54.0	Vertical	PASS
13271.215	49.59	--	--	74.0	--	54.0	Vertical	PASS
16622.296	48.42	--	--	74.0	--	54.0	Vertical	PASS
7043.261	49.82	--	--	74.0	--	54.0	Horizontal	PASS
7833.611	49.33	--	--	74.0	--	54.0	Horizontal	PASS

11121.464	47.86	--	--	74.0	--	54.0	Horizontal	PASS
14851.913	50.38	--	--	74.0	--	54.0	Horizontal	PASS
17381.032	49.51	--	--	74.0	--	54.0	Horizontal	PASS
20574.043	49.53	--	--	74.0	--	54.0	Horizontal	PASS

802.11n-20MHz Mode-Low Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	30.12	--	--	--	110.8	--	--	PASS
0.136	26.18	--	--	--	104.9	--	--	PASS
0.166	26.79	--	--	--	103.2	--	--	PASS
0.339	17.90	--	--	--	97.0	--	--	PASS
3.000	17.35	--	--	--	69.5	--	--	PASS
20.997	27.23	--	--	--	69.5	--	--	PASS
63.942	26.00	--	--	--	40.0	--	Vertical	PASS
127.946	40.82	--	--	--	43.5	--	Vertical	PASS
223.952	36.68	--	--	--	46.0	--	Vertical	PASS
395.841	41.46	--	--	--	46.0	--	Vertical	PASS
575.974	39.40	--	--	--	46.0	--	Vertical	PASS
703.982	38.95	--	--	--	46.0	--	Vertical	PASS
32.424	34.84	--	--	--	40.0	--	Horizontal	PASS
63.942	29.90	--	--	--	40.0	--	Horizontal	PASS
127.946	36.18	--	--	--	43.5	--	Horizontal	PASS
223.952	36.32	--	--	--	46.0	--	Horizontal	PASS
395.841	39.91	--	--	--	46.0	--	Horizontal	PASS
575.974	43.44	--	--	--	46.0	--	Horizontal	PASS
1187.953	51.51	--	--	74.0	--	54.0	Vertical	PASS
1979.755	46.43	--	--	74.0	--	54.0	Vertical	PASS
2416.146	101.54	--	--	74.0	--	54.0	Vertical	N/A
2772.557	45.70	--	--	74.0	--	54.0	Vertical	PASS
3911.022	47.06	--	--	74.0	--	54.0	Vertical	PASS
4826.543	58.31	--	42.73	74.0	--	54.0	Vertical	PASS
1188.453	49.94	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	46.81	--	--	74.0	--	54.0	Horizontal	PASS
2408.148	97.33	--	--	74.0	--	54.0	Horizontal	N/A
2772.557	45.66	--	--	74.0	--	54.0	Horizontal	PASS
3611.847	45.75	--	--	74.0	--	54.0	Horizontal	PASS
4813.797	54.56	--	--	74.0	--	54.0	Horizontal	PASS
6758.735	48.84	--	--	74.0	--	54.0	Vertical	PASS
7738.769	49.30	--	--	74.0	--	54.0	Vertical	PASS
8940.100	47.28	--	--	74.0	--	54.0	Vertical	PASS
11184.692	48.10	--	--	74.0	--	54.0	Vertical	PASS
14346.090	50.22	--	--	74.0	--	54.0	Vertical	PASS
16906.822	48.50	--	--	74.0	--	54.0	Vertical	PASS
7074.875	48.36	--	--	74.0	--	54.0	Horizontal	PASS

7770.383	48.54	--	--	74.0	--	54.0	Horizontal	PASS
8845.258	47.94	--	--	74.0	--	54.0	Horizontal	PASS
10584.027	47.01	--	--	74.0	--	54.0	Horizontal	PASS
12544.093	48.14	--	--	74.0	--	54.0	Horizontal	PASS
15073.211	49.86	--	--	74.0	--	54.0	Horizontal	PASS
802.11n-20MHz Mode-Mid Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	27.46	--	--	--	110.8	--	--	PASS
0.136	25.15	--	--	--	104.9	--	--	PASS
0.166	26.58	--	--	--	103.2	--	--	PASS
0.339	18.51	--	--	--	97.0	--	--	PASS
2.438	15.98	--	--	--	69.5	--	--	PASS
18.996	25.06	--	--	--	69.5	--	--	PASS
32.182	34.05	--	--	--	40.0	--	Vertical	PASS
63.942	33.60	--	--	--	40.0	--	Vertical	PASS
127.946	40.27	--	--	--	43.5	--	Vertical	PASS
223.952	36.48	--	--	--	46.0	--	Vertical	PASS
575.974	43.58	--	--	--	46.0	--	Vertical	PASS
703.982	41.10	--	--	--	46.0	--	Vertical	PASS
63.942	26.08	--	--	--	40.0	--	Horizontal	PASS
127.946	39.68	--	--	--	43.5	--	Horizontal	PASS
231.467	38.03	--	--	--	46.0	--	Horizontal	PASS
395.841	42.14	--	--	--	46.0	--	Horizontal	PASS
575.974	39.73	--	--	--	46.0	--	Horizontal	PASS
703.982	39.31	--	--	--	46.0	--	Horizontal	PASS
1187.453	48.70	--	--	74.0	--	54.0	Vertical	PASS
1981.255	44.37	--	--	74.0	--	54.0	Vertical	PASS
2432.642	101.62	--	--	74.0	--	54.0	Vertical	N/A
2772.557	45.44	--	--	74.0	--	54.0	Vertical	PASS
4356.411	48.33	--	--	74.0	--	54.0	Vertical	PASS
4877.531	58.31	--	--	74.0	--	54.0	Vertical	PASS
1187.953	50.76	--	--	74.0	--	54.0	Horizontal	PASS
1980.255	46.48	--	--	74.0	--	54.0	Horizontal	PASS
2434.141	96.71	--	--	74.0	--	54.0	Horizontal	N/A
2772.057	48.51	--	--	74.0	--	54.0	Horizontal	PASS
3620.845	44.06	--	--	74.0	--	54.0	Horizontal	PASS
4874.531	53.23	--	--	74.0	--	54.0	Horizontal	PASS
6474.210	48.63	--	--	74.0	--	54.0	Vertical	PASS
8560.732	48.27	--	--	74.0	--	54.0	Vertical	PASS
10425.957	47.60	--	--	74.0	--	54.0	Vertical	PASS
13176.373	48.73	--	--	74.0	--	54.0	Vertical	PASS
16211.314	50.36	--	--	74.0	--	54.0	Vertical	PASS
21522.463	48.70	--	--	74.0	--	54.0	Vertical	PASS
7074.875	48.90	--	--	74.0	--	54.0	Horizontal	PASS

8371.048	48.53	--	--	74.0	--	54.0	Horizontal	PASS
9951.747	47.90	--	--	74.0	--	54.0	Horizontal	PASS
11690.516	48.55	--	--	74.0	--	54.0	Horizontal	PASS
12354.409	48.34	--	--	74.0	--	54.0	Horizontal	PASS
15863.561	49.42	--	--	74.0	--	54.0	Horizontal	PASS
802.11n-20MHz Mode-High Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	26.25	--	--	--	110.8	--	--	PASS
0.136	26.52	--	--	--	104.9	--	--	PASS
0.166	27.43	--	--	--	103.2	--	--	PASS
0.339	17.12	--	--	--	97.0	--	--	PASS
4.994	17.48	--	--	--	69.5	--	--	PASS
16.995	23.74	--	--	--	69.5	--	--	PASS
63.942	25.93	--	--	--	40.0	--	Vertical	PASS
127.703	40.49	--	--	--	43.5	--	Vertical	PASS
228.073	36.29	--	--	--	46.0	--	Vertical	PASS
395.841	40.95	--	--	--	46.0	--	Vertical	PASS
575.974	40.05	--	--	--	46.0	--	Vertical	PASS
703.982	39.13	--	--	--	46.0	--	Vertical	PASS
32.424	34.53	--	--	--	40.0	--	Horizontal	PASS
63.942	34.69	--	--	--	40.0	--	Horizontal	PASS
127.703	40.05	--	--	--	43.5	--	Horizontal	PASS
228.073	35.66	--	--	--	46.0	--	Horizontal	PASS
575.974	43.63	--	--	--	46.0	--	Horizontal	PASS
703.982	41.43	--	--	--	46.0	--	Horizontal	PASS
1188.453	50.09	--	--	74.0	--	54.0	Vertical	PASS
1728.318	37.90	--	--	74.0	--	54.0	Vertical	PASS
1979.755	43.37	--	--	74.0	--	54.0	Vertical	PASS
2465.634	101.16	--	--	74.0	--	54.0	Vertical	N/A
2772.057	45.23	--	--	74.0	--	54.0	Vertical	PASS
4924.019	50.35	--	--	74.0	--	54.0	Vertical	PASS
1187.953	46.53	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	46.53	--	--	74.0	--	54.0	Horizontal	PASS
2455.636	95.64	--	--	74.0	--	54.0	Horizontal	PASS
2772.057	45.37	--	--	74.0	--	54.0	Horizontal	N/A
3896.776	46.60	--	--	74.0	--	54.0	Horizontal	PASS
4924.769	51.06	--	--	74.0	--	54.0	Horizontal	PASS
6126.456	49.13	--	--	74.0	--	54.0	Vertical	PASS
7770.383	48.94	--	--	74.0	--	54.0	Vertical	PASS
8718.802	49.05	--	--	74.0	--	54.0	Vertical	PASS
9667.221	49.16	--	--	74.0	--	54.0	Vertical	PASS
14440.932	50.22	--	--	74.0	--	54.0	Vertical	PASS
19404.326	48.52	--	--	74.0	--	54.0	Vertical	PASS
6505.824	49.03	--	--	74.0	--	54.0	Horizontal	PASS

7138.103	49.43	--	--	74.0	--	54.0	Horizontal	PASS
8371.048	48.48	--	--	74.0	--	54.0	Horizontal	PASS
10489.185	47.26	--	--	74.0	--	54.0	Horizontal	PASS
13207.987	49.48	--	--	74.0	--	54.0	Horizontal	PASS
17412.646	48.32	--	--	74.0	--	54.0	Horizontal	PASS
802.11n-40MHz Mode-Low Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	28.96	--	--	--	110.8	--	--	PASS
0.136	26.79	--	--	--	104.9	--	--	PASS
0.166	28.26	--	--	--	103.2	--	--	PASS
0.339	20.37	--	--	--	97.0	--	--	PASS
8.997	17.69	--	--	--	69.5	--	--	PASS
20.997	22.36	--	--	--	69.5	--	--	PASS
32.424	35.30	--	--	--	40.0	--	Vertical	PASS
63.942	34.10	--	--	--	40.0	--	Vertical	PASS
127.946	40.04	--	--	--	43.5	--	Vertical	PASS
395.841	38.66	--	--	--	46.0	--	Vertical	PASS
575.974	43.36	--	--	--	46.0	--	Vertical	PASS
703.982	41.49	--	--	--	46.0	--	Vertical	PASS
63.942	25.71	--	--	--	40.0	--	Horizontal	PASS
127.946	40.73	--	--	--	43.5	--	Horizontal	PASS
223.952	42.37	--	--	--	46.0	--	Horizontal	PASS
395.841	40.29	--	--	--	46.0	--	Horizontal	PASS
575.974	39.64	--	--	--	46.0	--	Horizontal	PASS
703.982	43.48	--	--	--	46.0	--	Horizontal	PASS
1187.953	49.29	--	--	74.0	--	54.0	Vertical	PASS
1979.255	44.49	--	--	74.0	--	54.0	Vertical	PASS
2433.142	94.93	--	--	74.0	--	54.0	Vertical	N/A
2772.057	43.72	--	--	74.0	--	54.0	Vertical	PASS
4224.444	46.89	--	--	74.0	--	54.0	Vertical	PASS
5758.560	50.56	--	--	74.0	--	54.0	Vertical	PASS
1187.953	51.34	--	--	74.0	--	54.0	Horizontal	PASS
1727.818	38.60	--	--	74.0	--	54.0	Horizontal	PASS
1979.755	44.13	--	--	74.0	--	54.0	Horizontal	N/A
2417.146	99.66	--	--	74.0	--	54.0	Horizontal	PASS
2771.557	45.60	--	--	74.0	--	54.0	Horizontal	PASS
4840.040	50.46	--	--	74.0	--	54.0	Horizontal	PASS
7232.945	48.46	--	--	74.0	--	54.0	Vertical	PASS
8371.048	49.22	--	--	74.0	--	54.0	Vertical	PASS
9129.784	47.59	--	--	74.0	--	54.0	Vertical	PASS
10963.394	46.99	--	--	74.0	--	54.0	Vertical	PASS
13777.038	49.92	--	--	74.0	--	54.0	Vertical	PASS
16337.770	49.39	--	--	74.0	--	54.0	Vertical	PASS
7043.261	49.36	--	--	74.0	--	54.0	Horizontal	PASS

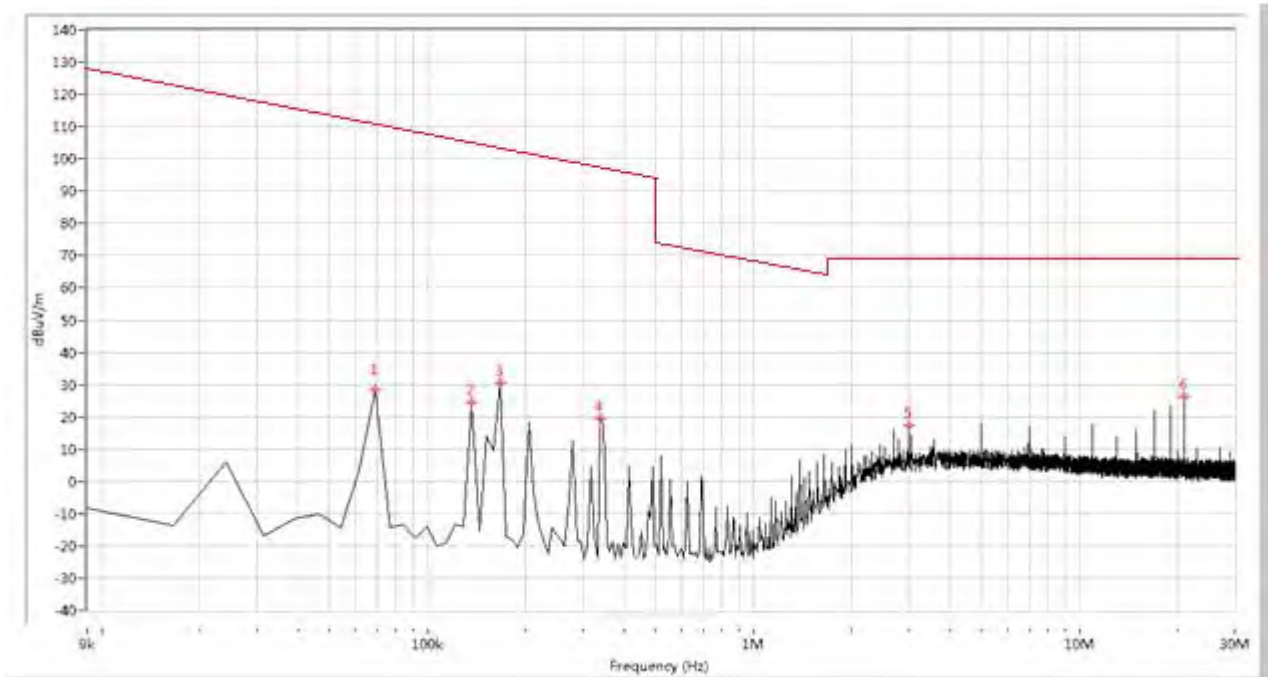
7833.611	48.32	--	--	74.0	--	54.0	Horizontal	PASS
9414.309	48.95	--	--	74.0	--	54.0	Horizontal	PASS
11374.376	48.56	--	--	74.0	--	54.0	Horizontal	PASS
14599.002	49.43	--	--	74.0	--	54.0	Horizontal	PASS
19435.940	48.08	--	--	74.0	--	54.0	Horizontal	PASS
802.11n-40MHz Mode-Mid Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	26.34	--	--	--	110.8	--	--	PASS
0.136	24.39	--	--	--	104.9	--	--	PASS
0.166	26.49	--	--	--	103.2	--	--	PASS
0.339	20.60	--	--	--	97.0	--	--	PASS
18.996	22.91	--	--	--	69.5	--	--	PASS
20.997	25.88	--	--	--	69.5	--	--	PASS
31.940	34.25	--	--	--	40.0	--	Vertical	PASS
63.942	34.09	--	--	--	40.0	--	Vertical	PASS
127.946	39.84	--	--	--	43.5	--	Vertical	PASS
395.841	39.61	--	--	--	46.0	--	Vertical	PASS
575.974	43.40	--	--	--	46.0	--	Vertical	PASS
703.982	41.48	--	--	--	46.0	--	Vertical	PASS
63.942	25.34	--	--	--	40.0	--	Horizontal	PASS
127.946	40.29	--	--	--	43.5	--	Horizontal	PASS
223.952	37.67	--	--	--	46.0	--	Horizontal	PASS
395.841	39.71	--	--	--	46.0	--	Horizontal	PASS
575.974	39.69	--	--	--	46.0	--	Horizontal	PASS
703.982	42.82	--	--	--	46.0	--	Horizontal	PASS
1188.453	48.54	--	--	74.0	--	54.0	Vertical	PASS
1980.755	45.18	--	--	74.0	--	54.0	Vertical	PASS
2443.139	100.29	--	--	74.0	--	54.0	Vertical	N/A
2772.057	45.69	--	--	74.0	--	54.0	Vertical	PASS
3563.859	45.48	--	--	74.0	--	54.0	Vertical	PASS
4888.778	49.20	--	--	74.0	--	54.0	Vertical	PASS
1188.453	50.12	--	--	74.0	--	54.0	Horizontal	PASS
1980.255	46.31	--	--	74.0	--	54.0	Horizontal	PASS
2429.643	92.68	--	--	74.0	--	54.0	Horizontal	N/A
2772.557	44.32	--	--	74.0	--	54.0	Horizontal	PASS
3880.280	46.46	--	--	74.0	--	54.0	Horizontal	PASS
4804.799	48.46	--	--	74.0	--	54.0	Horizontal	PASS
7264.559	49.23	--	--	74.0	--	54.0	Vertical	PASS
7960.067	48.48	--	--	74.0	--	54.0	Vertical	PASS
9224.626	47.81	--	--	74.0	--	54.0	Vertical	PASS
11627.288	48.68	--	--	74.0	--	54.0	Vertical	PASS
14377.704	49.66	--	--	74.0	--	54.0	Vertical	PASS
16369.384	50.02	--	--	74.0	--	54.0	Vertical	PASS
7485.857	48.37	--	--	74.0	--	54.0	Horizontal	PASS

8560.732	48.48	--	--	74.0	--	54.0	Horizontal	PASS
9983.361	46.90	--	--	74.0	--	54.0	Horizontal	PASS
11658.902	47.86	--	--	74.0	--	54.0	Horizontal	PASS
13966.722	50.24	--	--	74.0	--	54.0	Horizontal	PASS
18139.767	48.89	--	--	74.0	--	54.0	Horizontal	PASS
802.11n-40MHz Mode-High Channel								
Fre. (MHz)	Pk (dBuV)	QP (dBuV)	AV (dBuV)	Limit-PK(dBuV)	Limit-QP(dBuV)	Limit-AV(dBuV)	Antenna	Verdict
0.069	30.45	--	--	--	110.8	--	--	PASS
0.136	24.72	--	--	--	104.9	--	--	PASS
0.166	30.69	--	--	--	103.2	--	--	PASS
0.339	20.73	--	--	--	97.0	--	--	PASS
16.995	24.74	--	--	--	69.5	--	--	PASS
20.997	24.88	--	--	--	69.5	--	--	PASS
63.942	25.14	--	--	--	40.0	--	Vertical	PASS
127.946	40.88	--	--	--	43.5	--	Vertical	PASS
223.952	37.81	--	--	--	46.0	--	Vertical	PASS
395.841	42.41	--	--	--	46.0	--	Vertical	PASS
575.974	39.75	--	--	--	46.0	--	Vertical	PASS
703.982	43.22	--	--	--	46.0	--	Vertical	PASS
31.940	35.13	--	--	--	40.0	--	Horizontal	PASS
63.942	34.73	--	--	--	40.0	--	Horizontal	PASS
127.946	39.74	--	--	--	43.5	--	Horizontal	PASS
395.841	41.20	--	--	--	46.0	--	Horizontal	PASS
575.974	43.87	--	--	--	46.0	--	Horizontal	PASS
703.982	41.86	--	--	--	46.0	--	Horizontal	PASS
1188.453	50.02	--	--	74.0	--	54.0	Vertical	PASS
1980.755	45.10	--	--	74.0	--	54.0	Vertical	PASS
2445.139	99.35	--	--	74.0	--	54.0	Vertical	PASS
2772.057	45.57	--	--	74.0	--	54.0	Vertical	N/A
4077.481	46.81	--	--	74.0	--	54.0	Vertical	PASS
5706.073	50.54	--	--	74.0	--	54.0	Vertical	PASS
1187.453	48.38	--	--	74.0	--	54.0	Horizontal	PASS
1980.255	47.79	--	--	74.0	--	54.0	Horizontal	PASS
2458.135	93.26	--	--	74.0	--	54.0	Horizontal	PASS
2772.057	44.86	--	--	74.0	--	54.0	Horizontal	N/A
3888.528	46.18	--	--	74.0	--	54.0	Horizontal	PASS
4913.522	50.06	--	--	74.0	--	54.0	Horizontal	PASS
7043.261	49.34	--	--	74.0	--	54.0	Vertical	PASS
8655.574	47.57	--	--	74.0	--	54.0	Vertical	PASS
11026.622	48.13	--	--	74.0	--	54.0	Vertical	PASS
12702.163	48.04	--	--	74.0	--	54.0	Vertical	PASS
15136.439	49.08	--	--	74.0	--	54.0	Vertical	PASS
19783.694	48.23	--	--	74.0	--	54.0	Vertical	PASS
7043.261	49.22	--	--	74.0	--	54.0	Horizontal	PASS

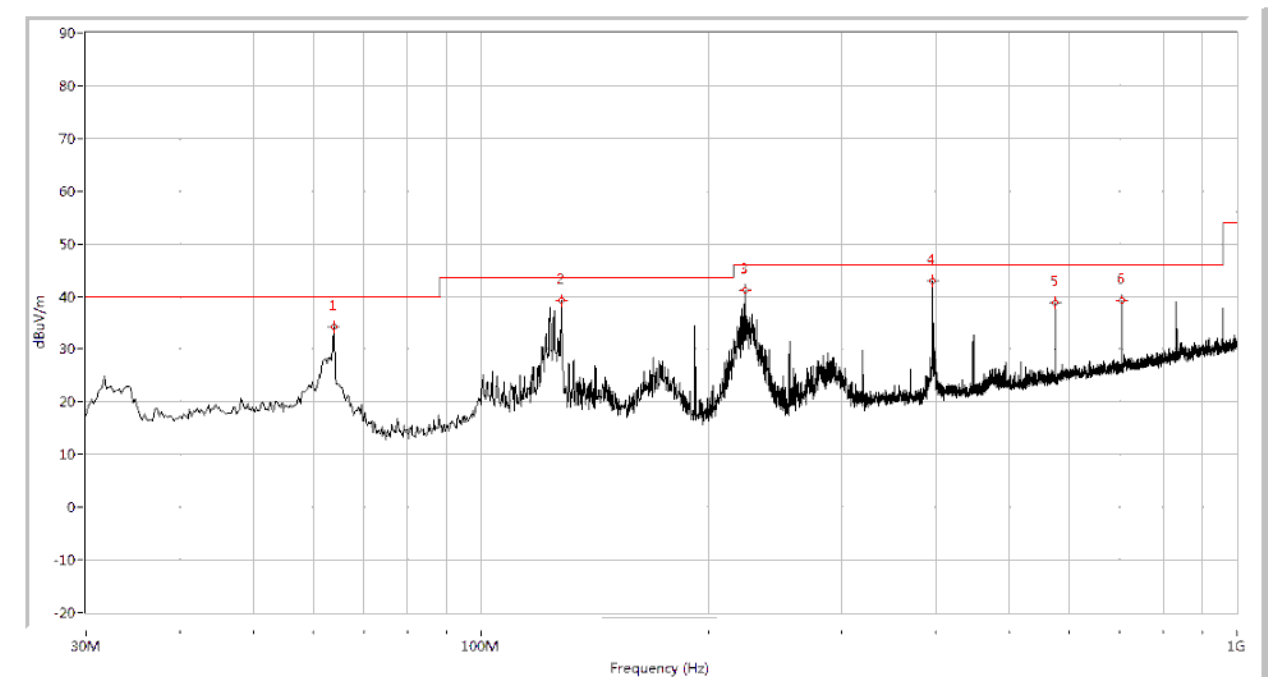
7991.681	48.78	--	--	74.0	--	54.0	Horizontal	PASS
10489.185	48.70	--	--	74.0	--	54.0	Horizontal	PASS
13555.740	50.53	--	--	74.0	--	54.0	Horizontal	PASS
16116.473	49.05	--	--	74.0	--	54.0	Horizontal	PASS
19404.326	49.06	--	--	74.0	--	54.0	Horizontal	PASS

Test Plots

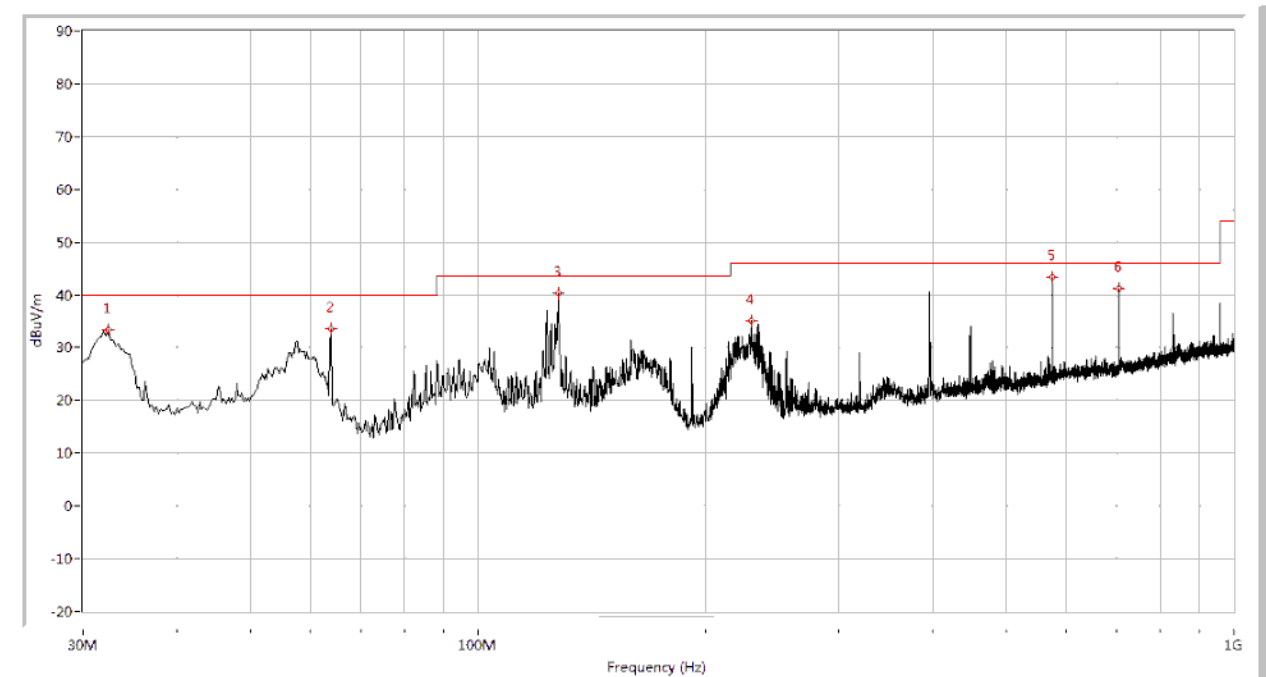
A.8.1, 802.11B LOW CHANNEL Below 30MHz



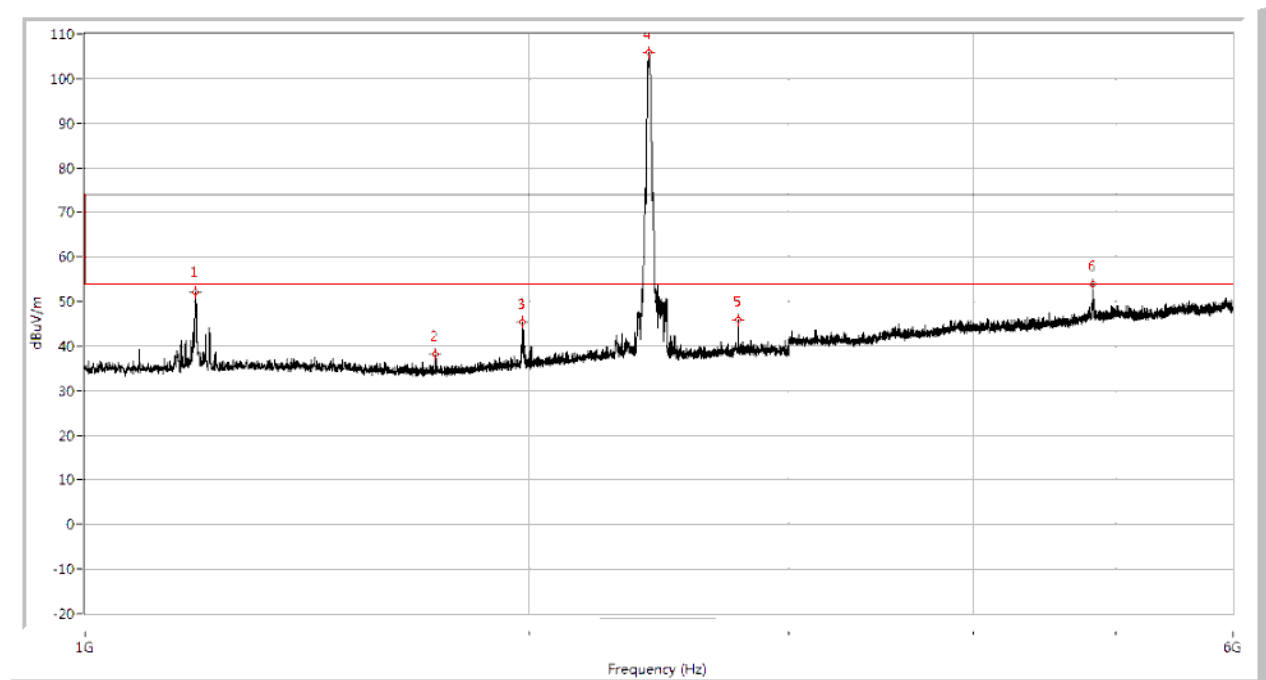
A.8.2, 802.11B LOW CHANNEL 30MHz to 1GHz, ANT V



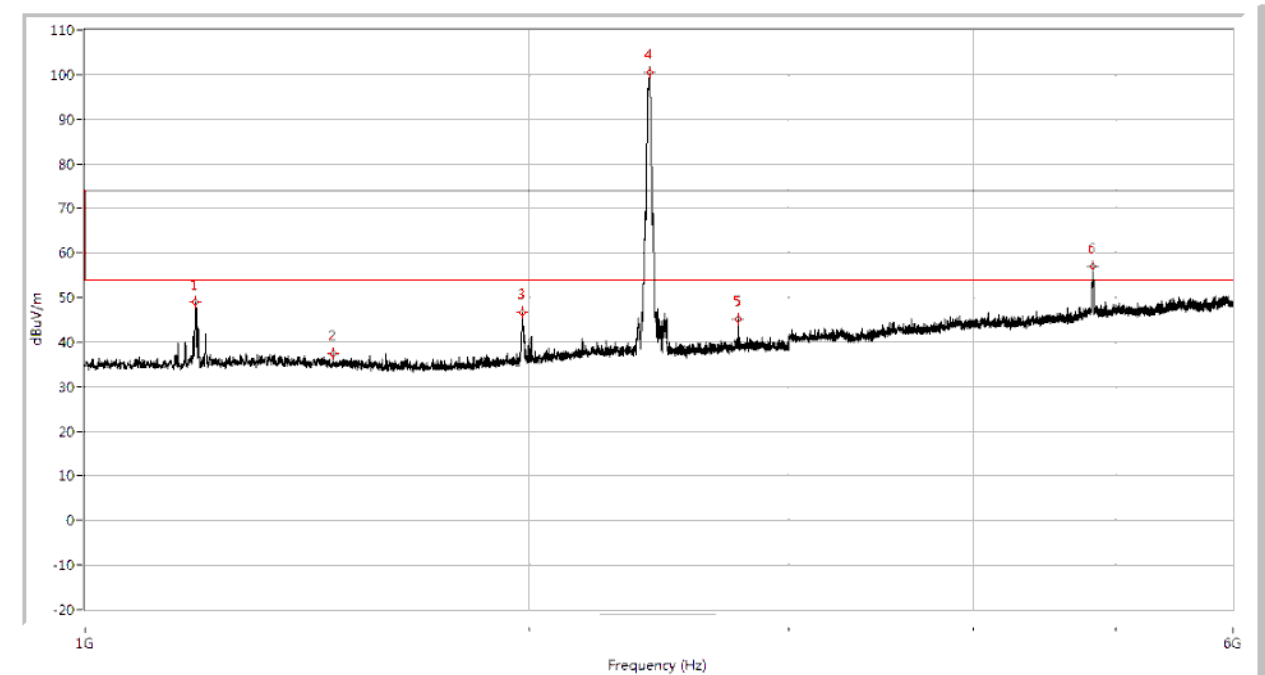
A.8.3, 802.11B LOW CHANNEL 30MHz to 1GHz, ANT H



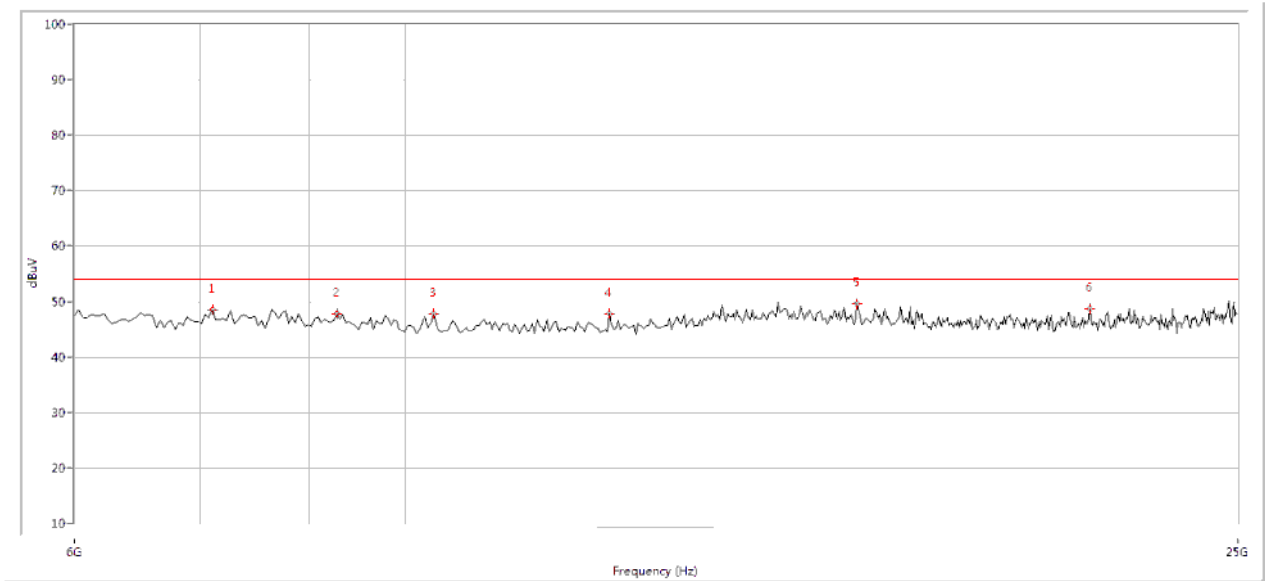
A.8.4, 802.11B LOW CHANNEL 1GHz to 6GHz, ANT V



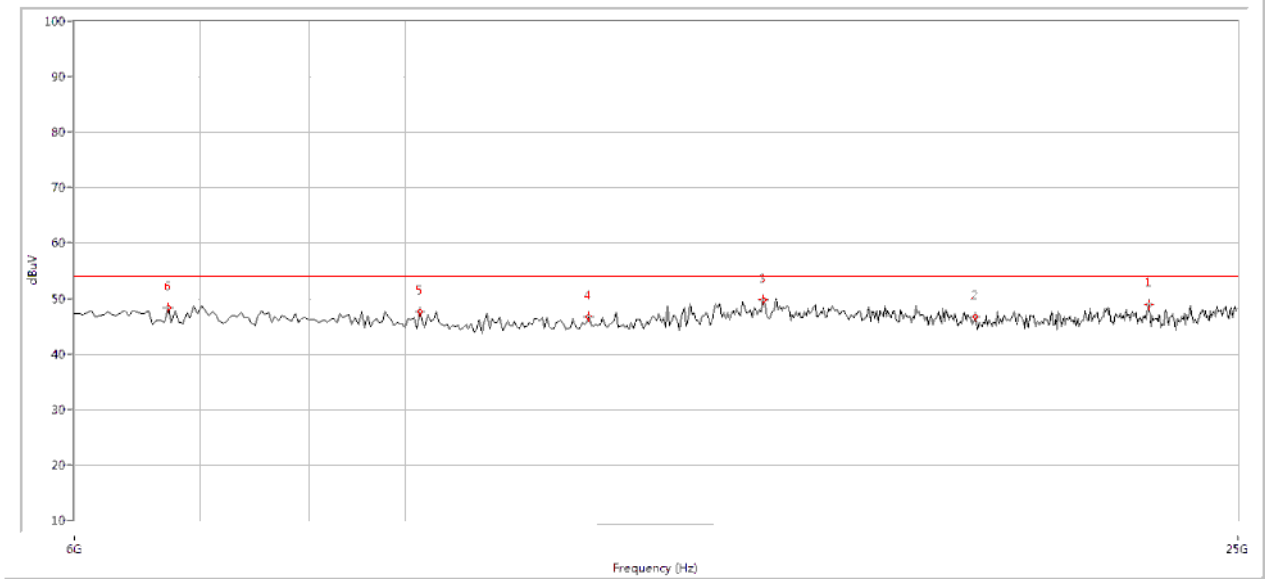
A.8.5, 802.11B LOW CHANNEL 1GHz to 6GHz, ANT H



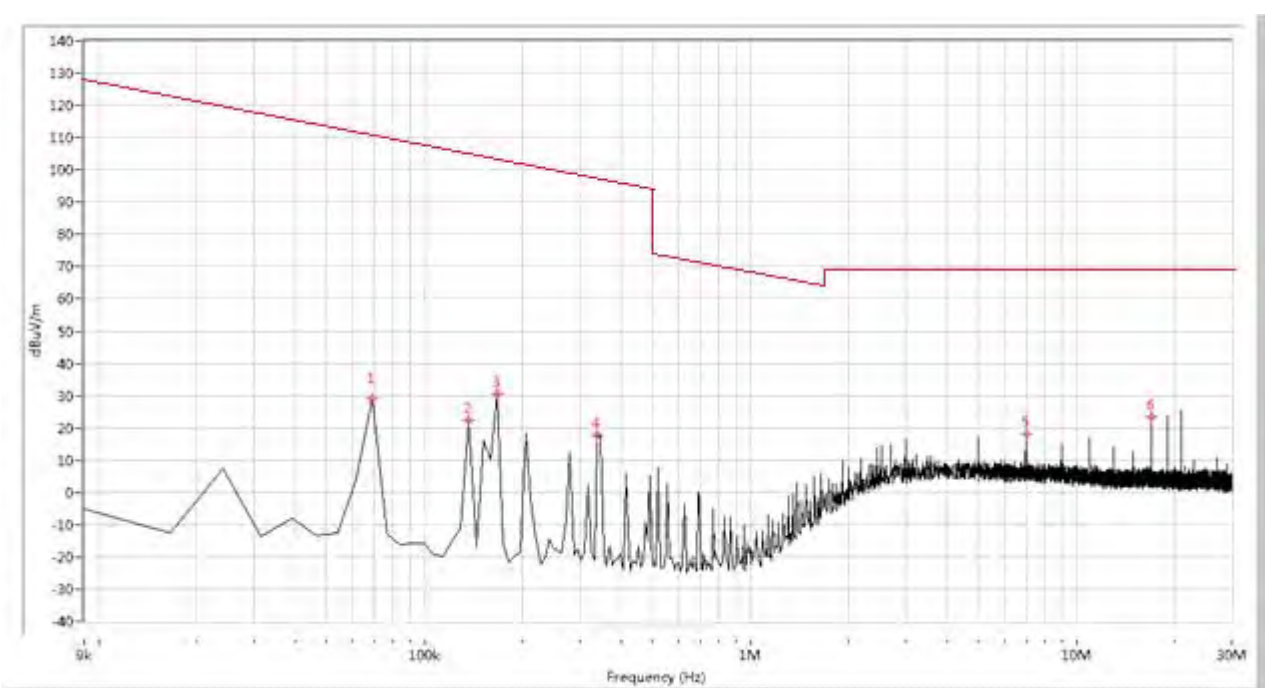
A.8.6, 802.11B LOW CHANNEL 6GHz to 25GHz, ANT V



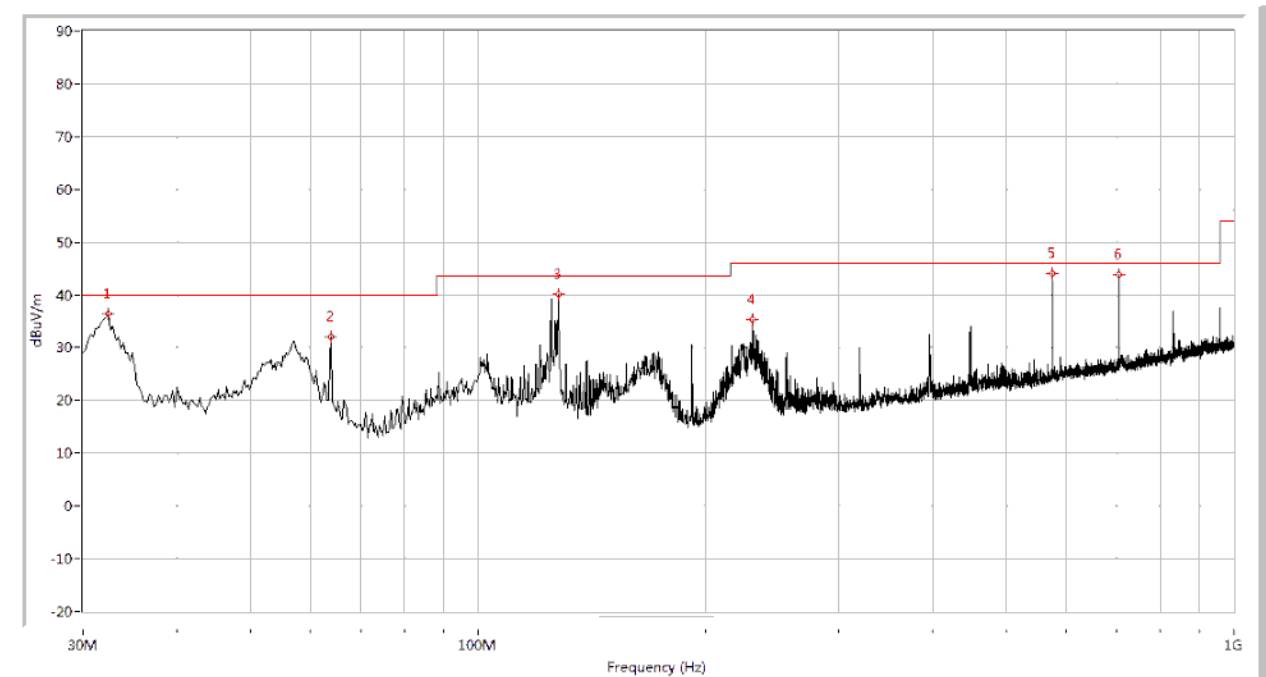
A.8.7, 802.11B LOW CHANNEL 6GHz to 25GHz, ANT H



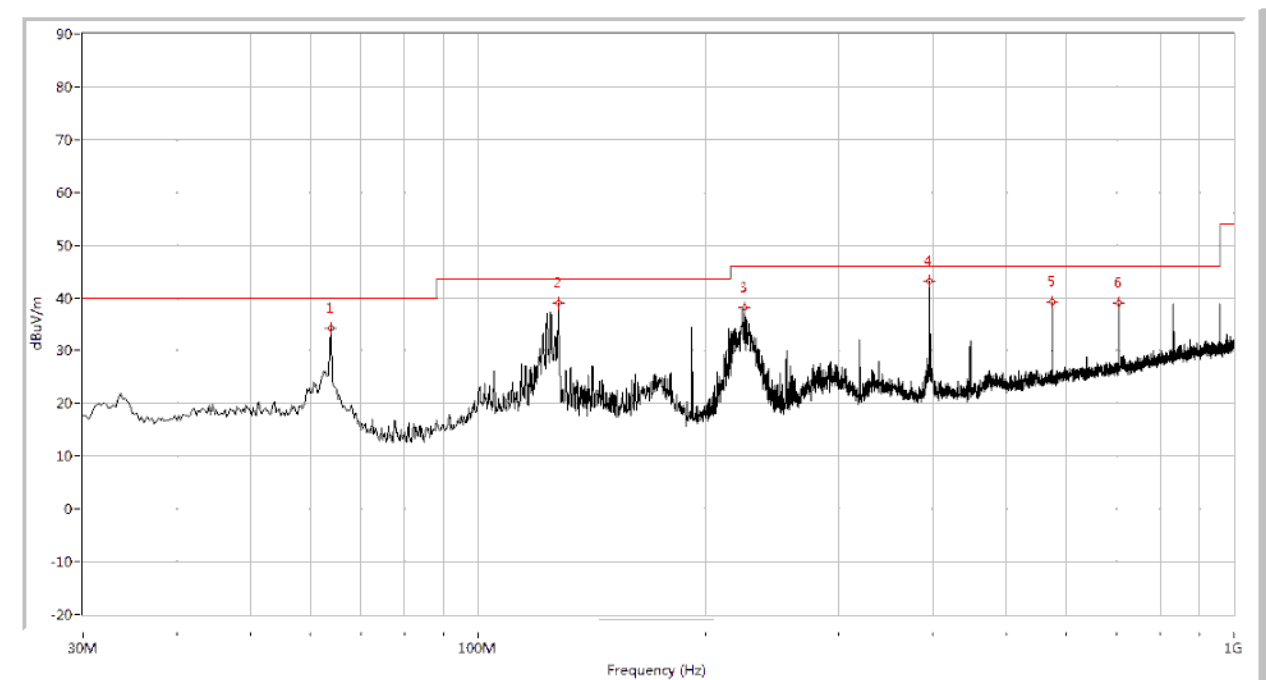
A.8.8, 802.11B MID CHANNEL Below 30MHz



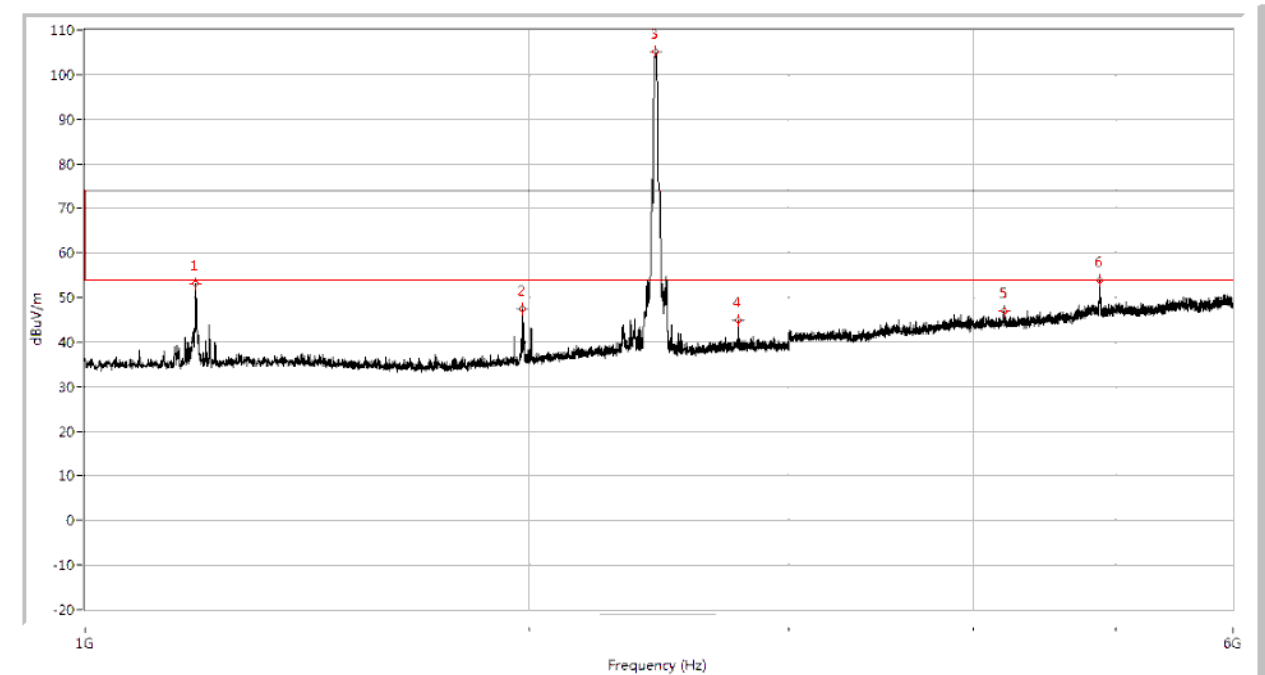
A.8.9, 802.11B MID CHANNEL 30MHz to 1GHz, ANT V



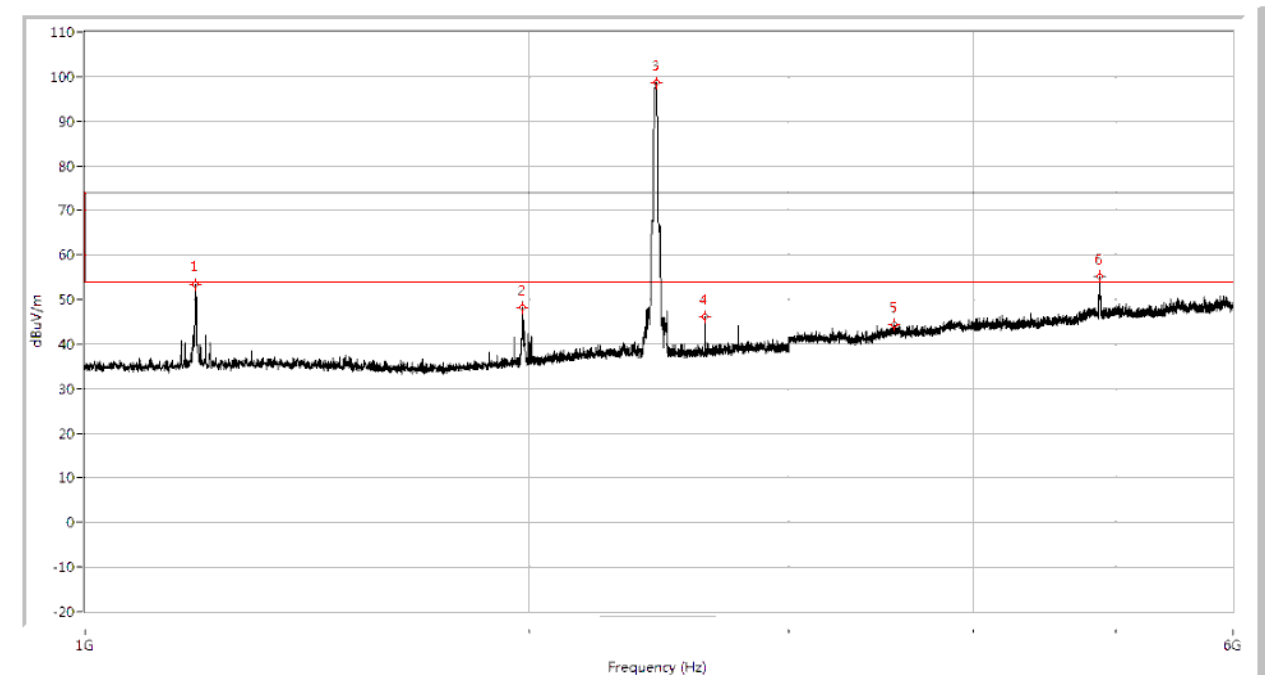
A.8.10, 802.11B MID CHANNEL 30MHz to 1GHz, ANT H



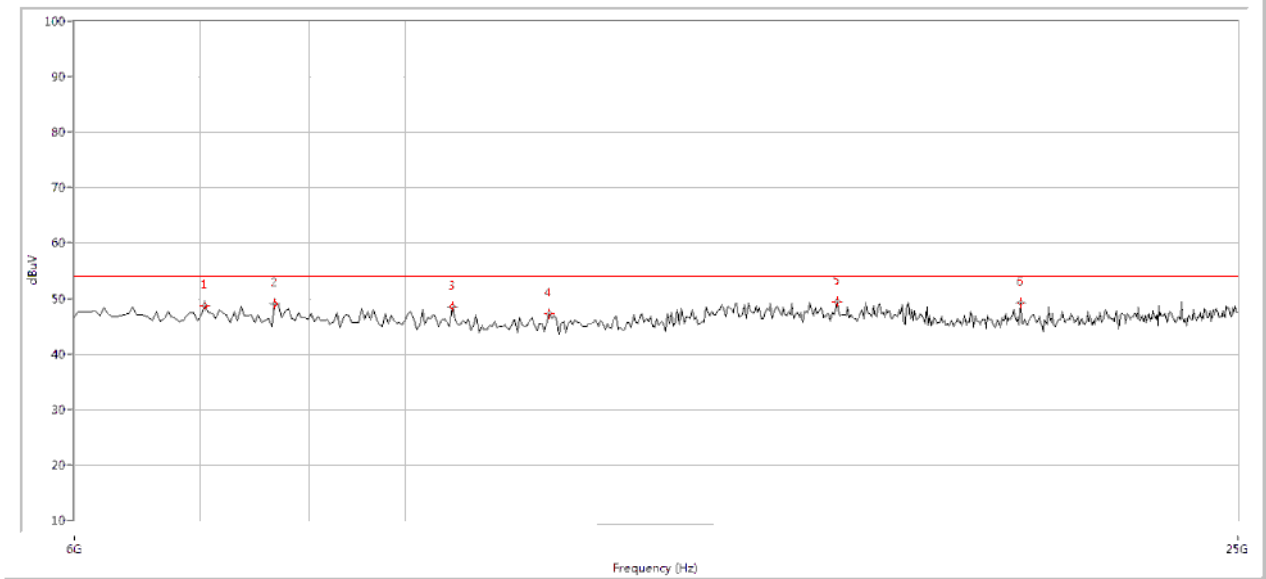
A.8.11, 802.11B MID CHANNEL 1GHz to 6GHz, ANT V



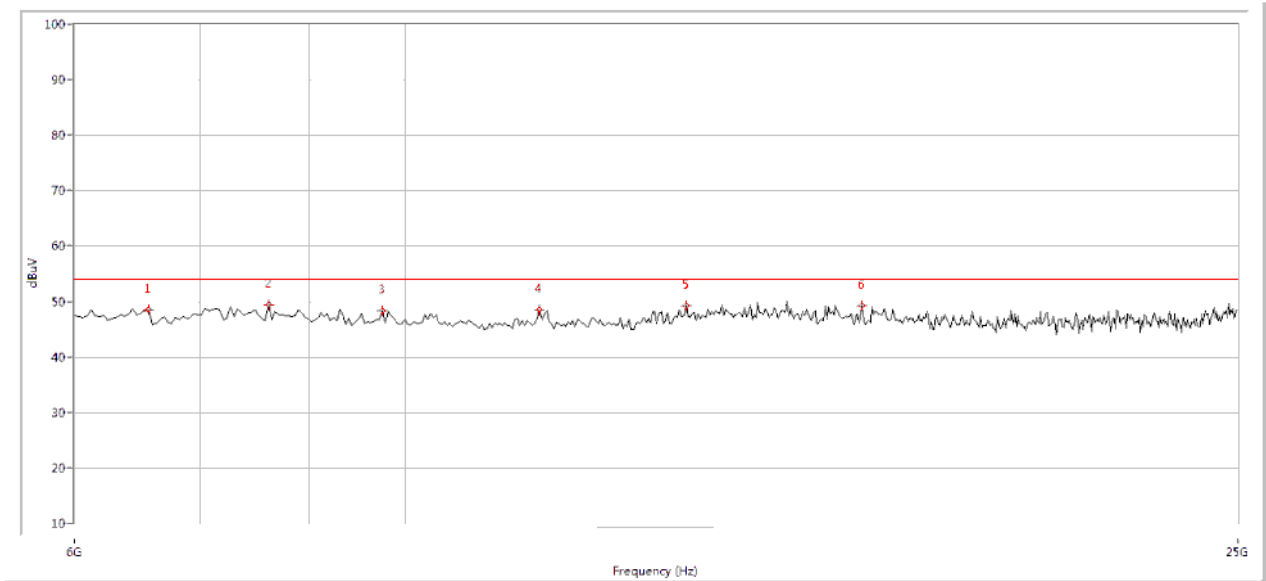
A.8.12, 802.11B MID CHANNEL 1GHz to 6GHz, ANT H



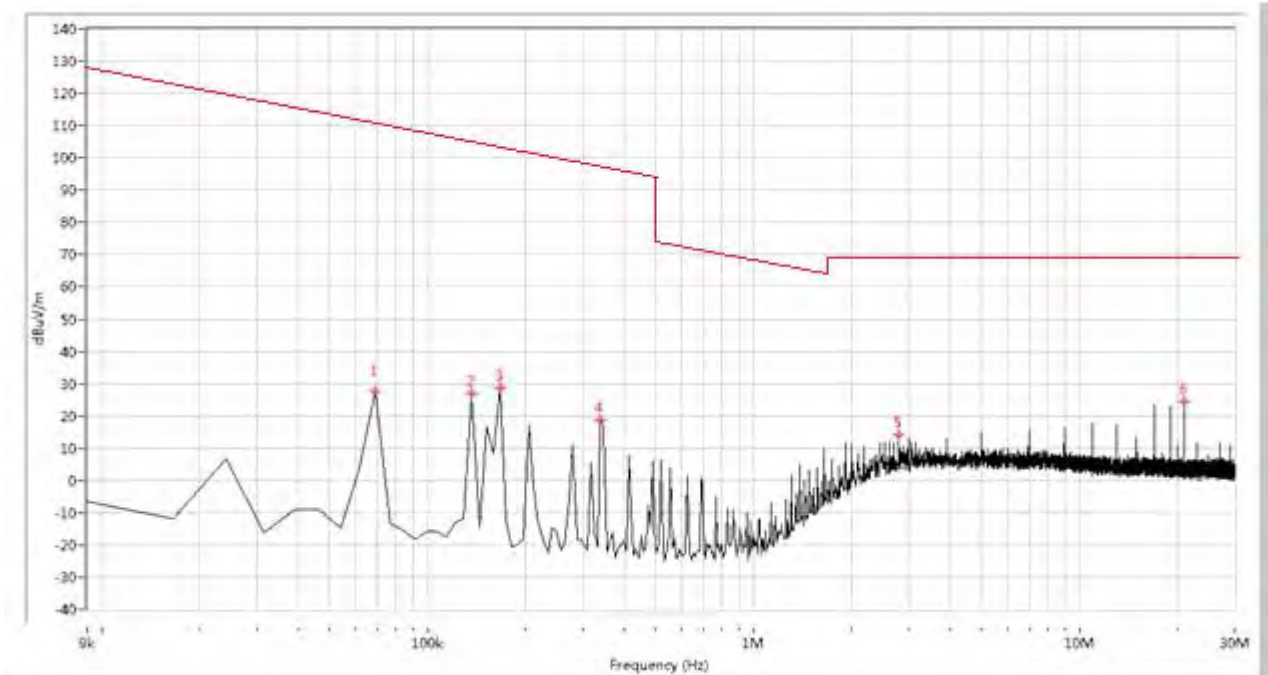
A.8.13, 802.11B MID CHANNEL 6GHz to 25GHz, ANT V



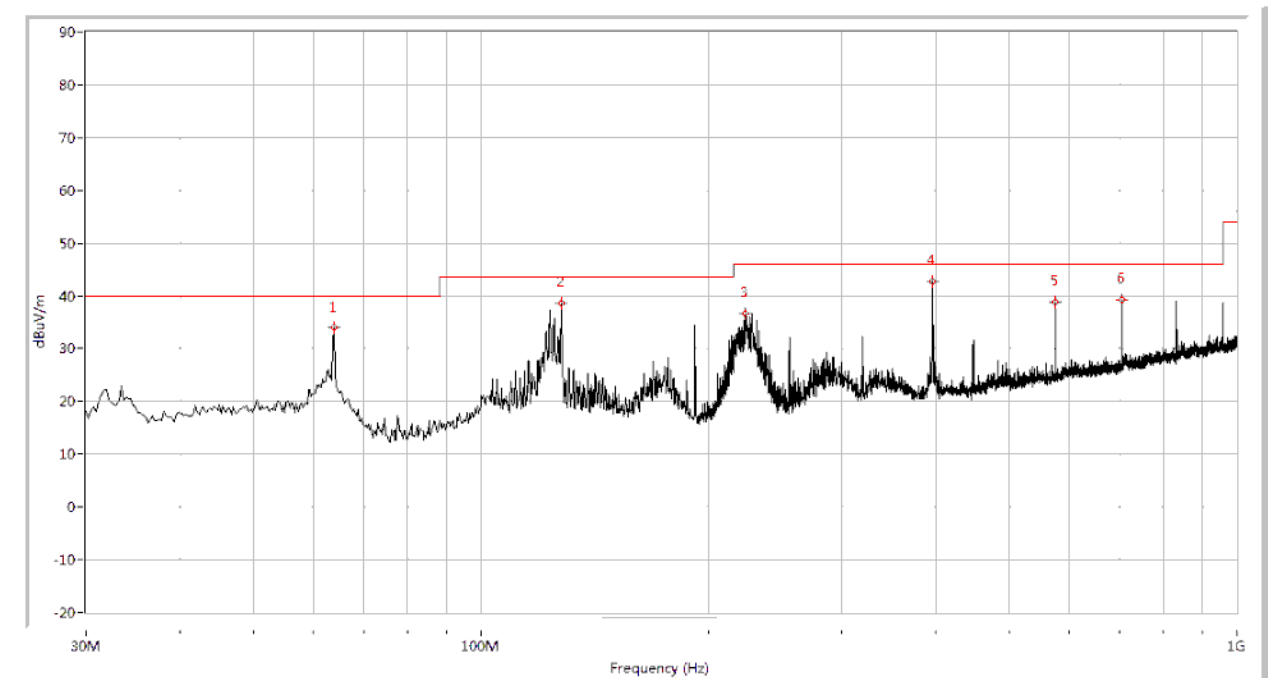
A.8.14, 802.11B MID CHANNEL 6GHz to 25GHz, ANT H



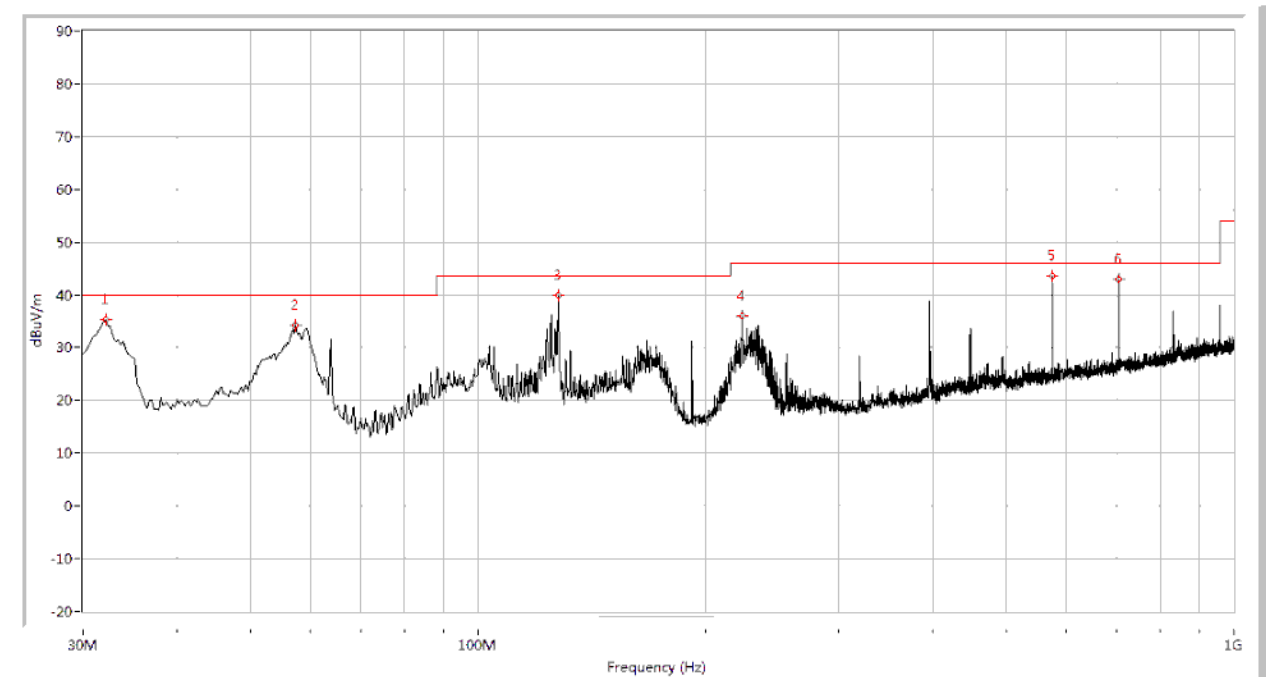
A.8.15, 802.11B HIGH CHANNEL Below 30MHz



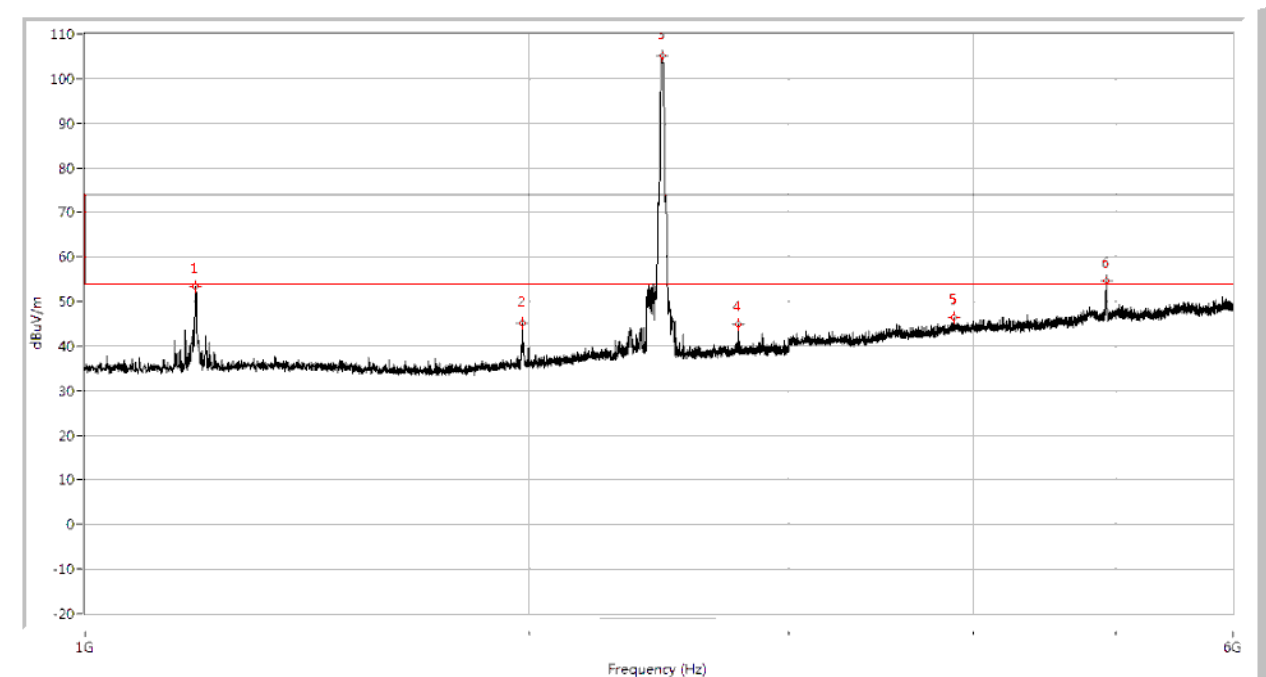
A.8.16, 802.11B HIGH CHANNEL 30MHz to 1GHz, ANT V



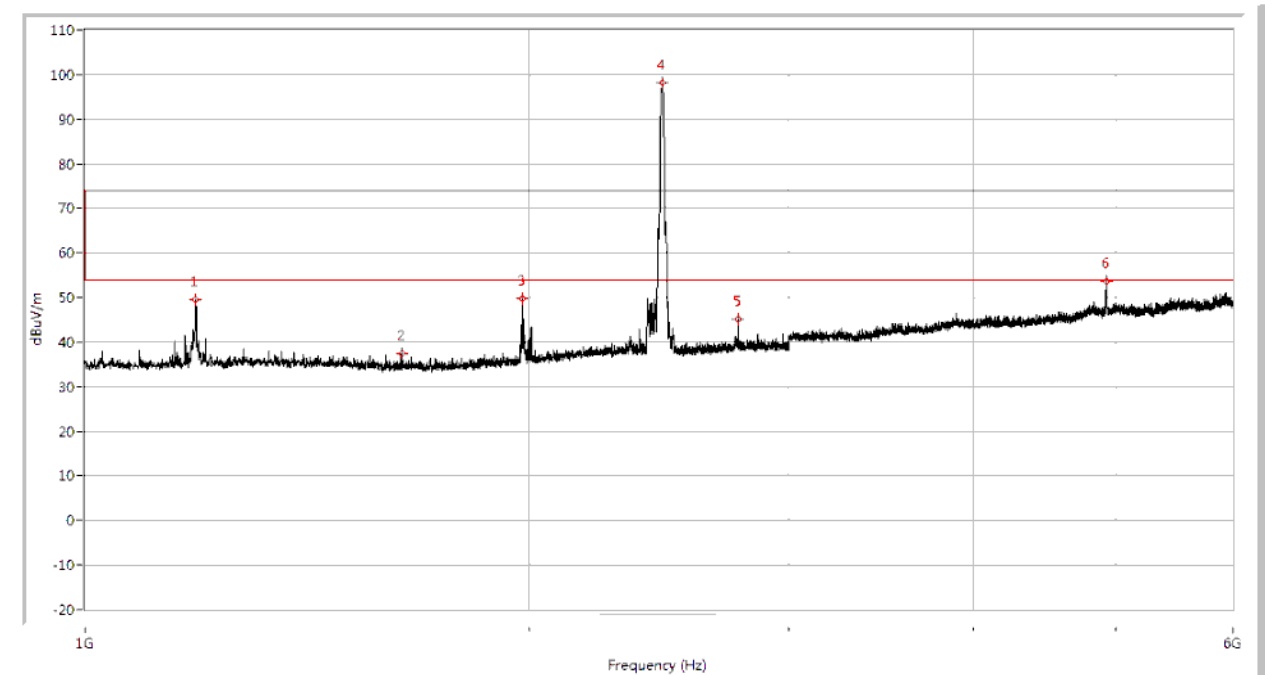
A.8.17, 802.11B HIGH CHANNEL 30MHz to 1GHz, ANT H



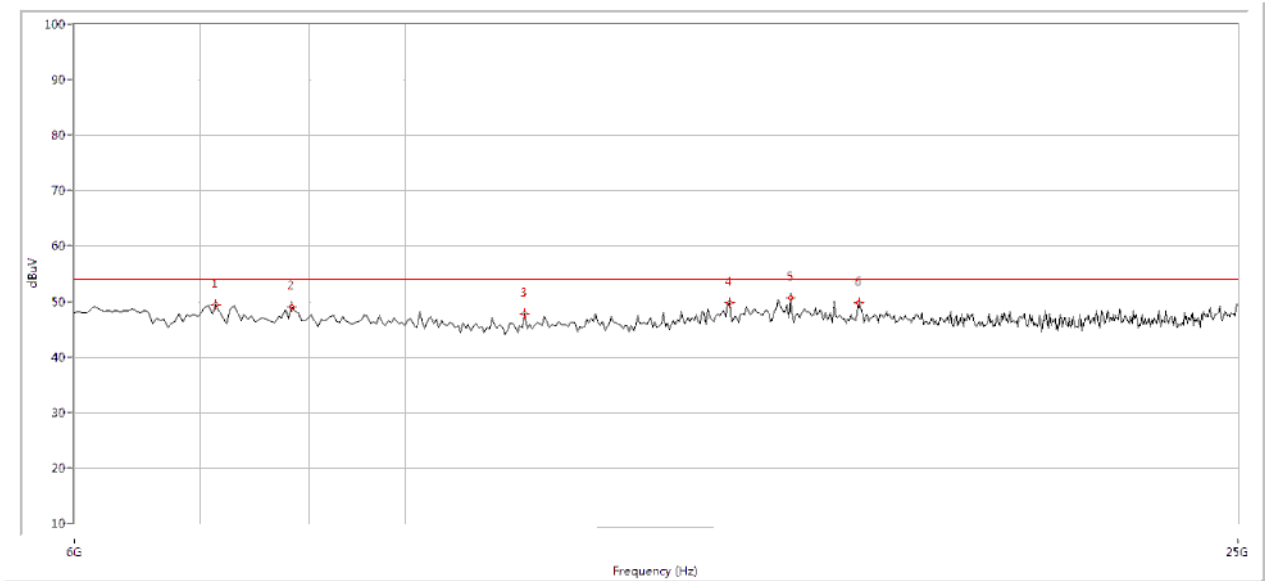
A.8.18, 802.11B HIGH CHANNEL 1GHz to 6GHz, ANT V



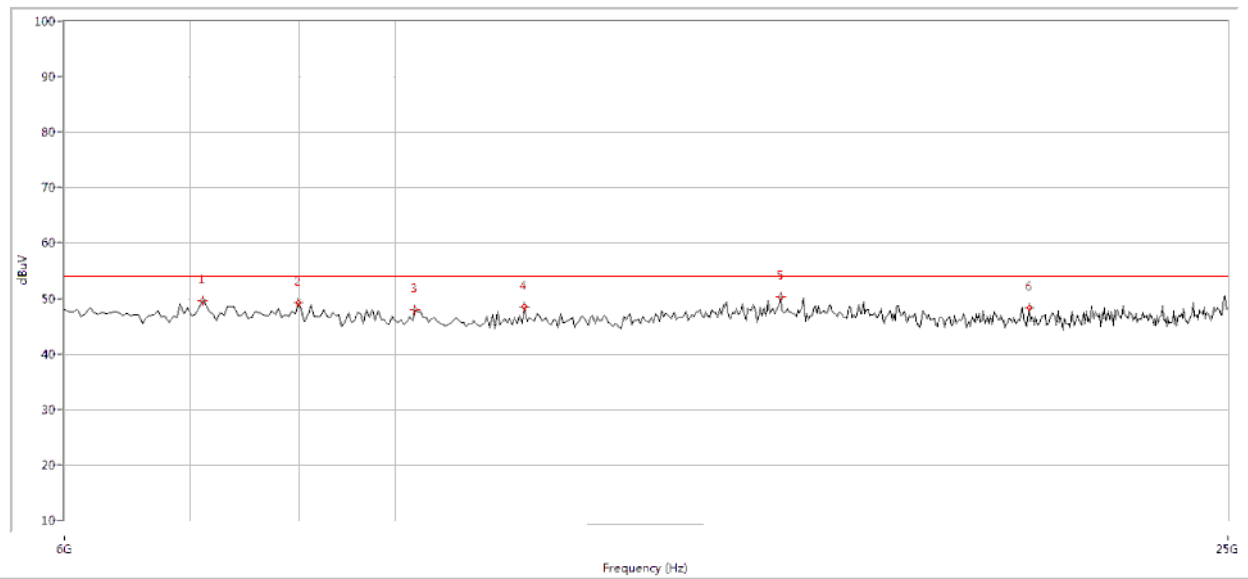
A.8.19, 802.11B HIGH CHANNEL 1GHz to 6GHz, ANT H



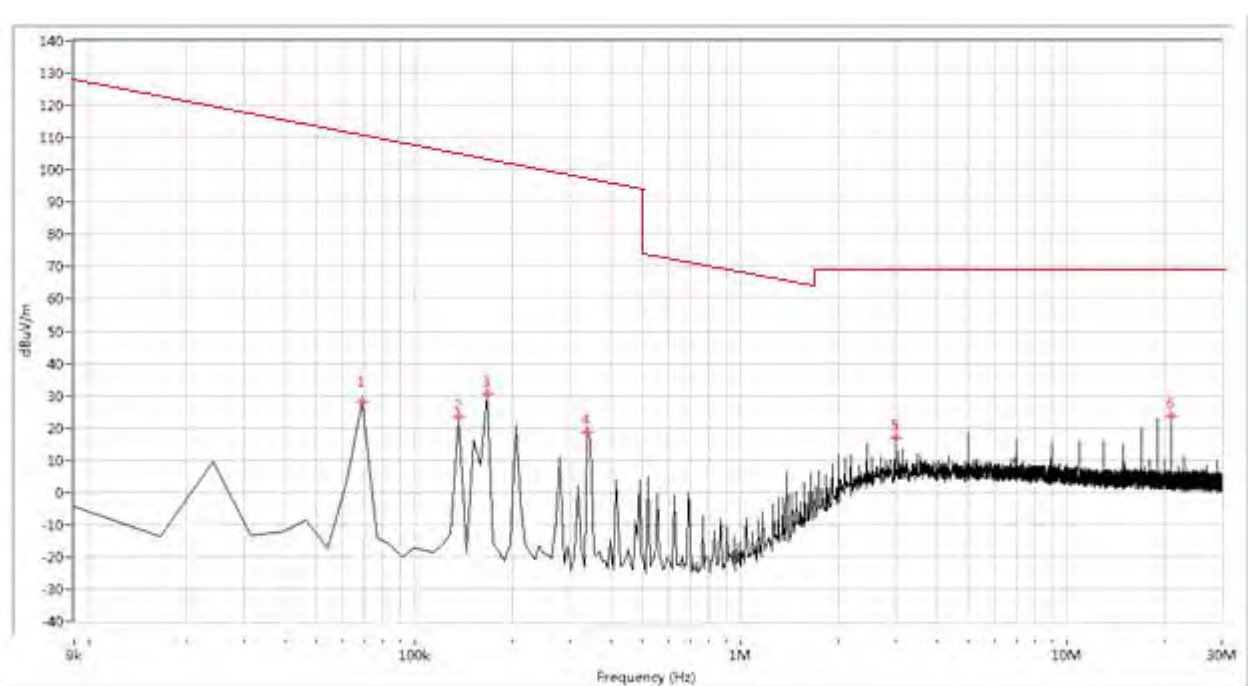
A.8.20, 802.11B HIGH CHANNEL 6GHz to 25GHz, ANT V



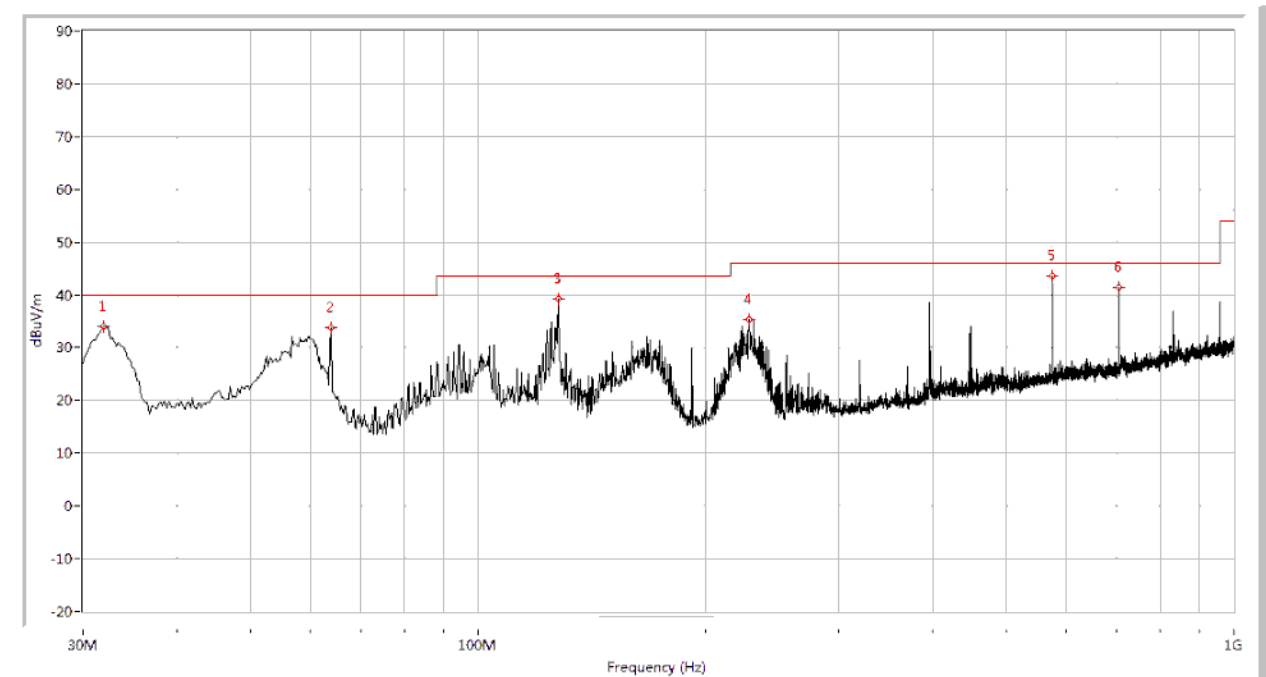
A.8.21, 802.11B HIGH CHANNEL 6GHz to 25GHz, ANT H



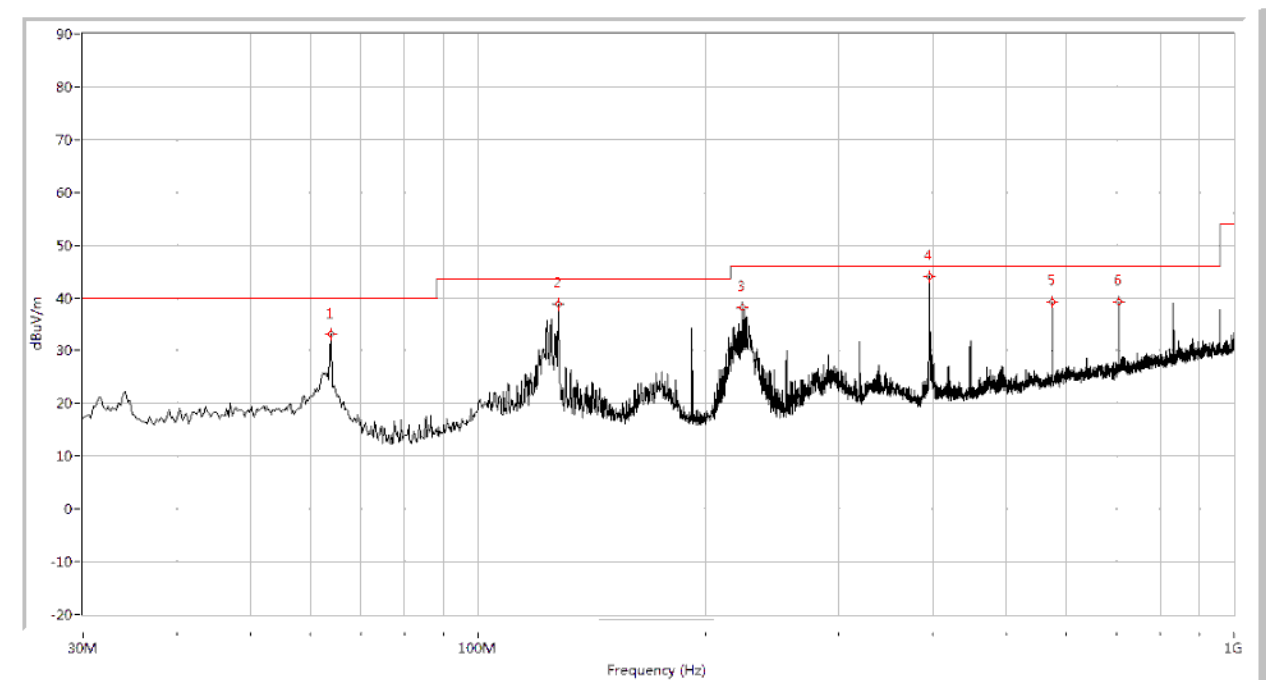
A.8.22, 802.11g LOW CHANNEL Below 30MHz



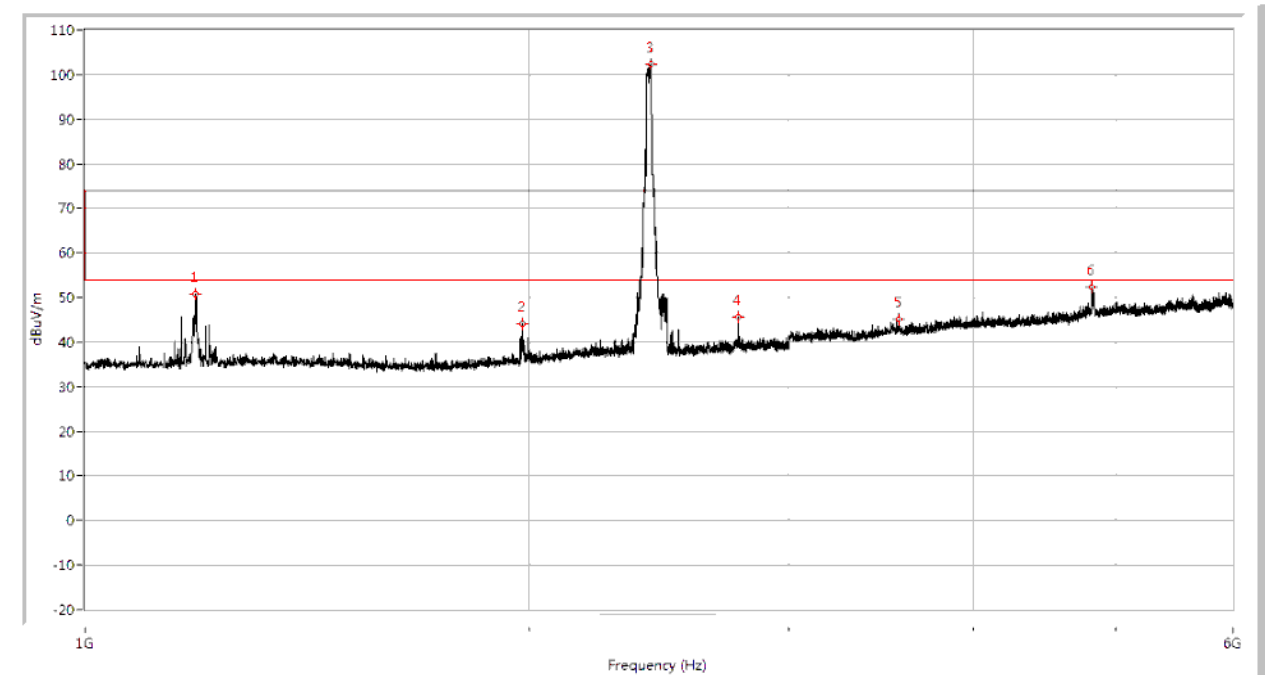
A.8.23, 802.11g LOW CHANNEL 30MHz to 1GHz, ANT V



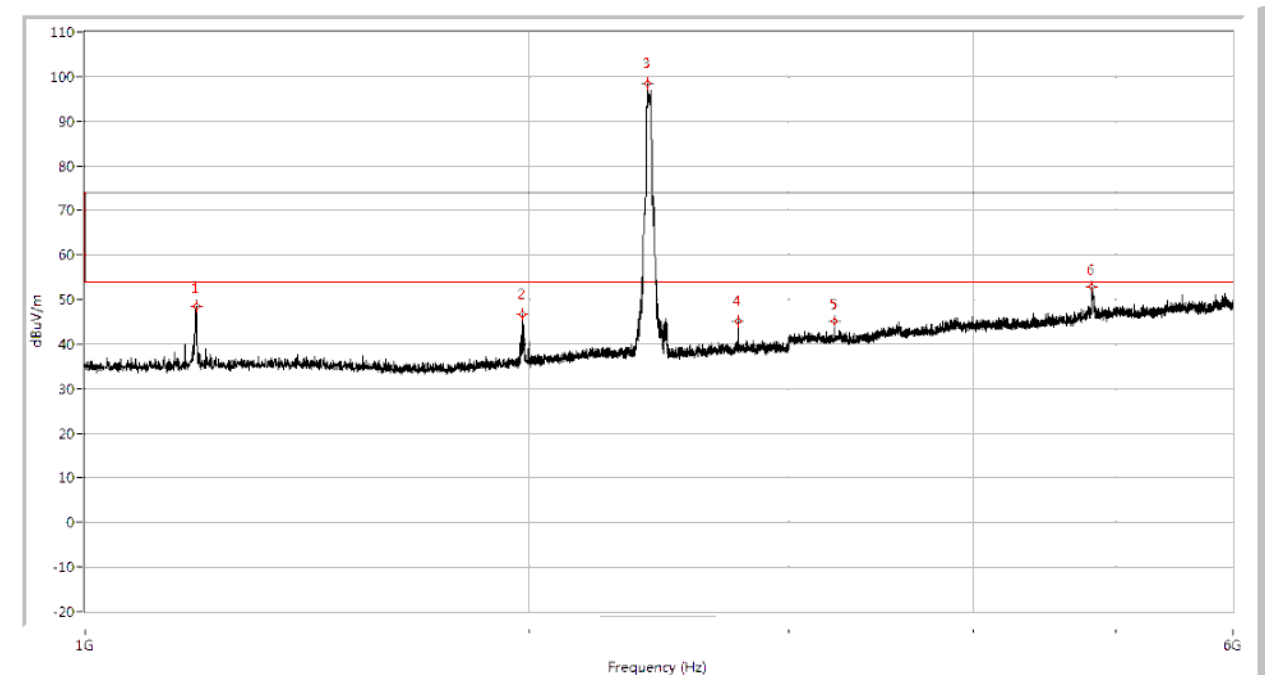
A.8.24, 802.11g LOW CHANNEL 30MHz to 1GHz, ANT H



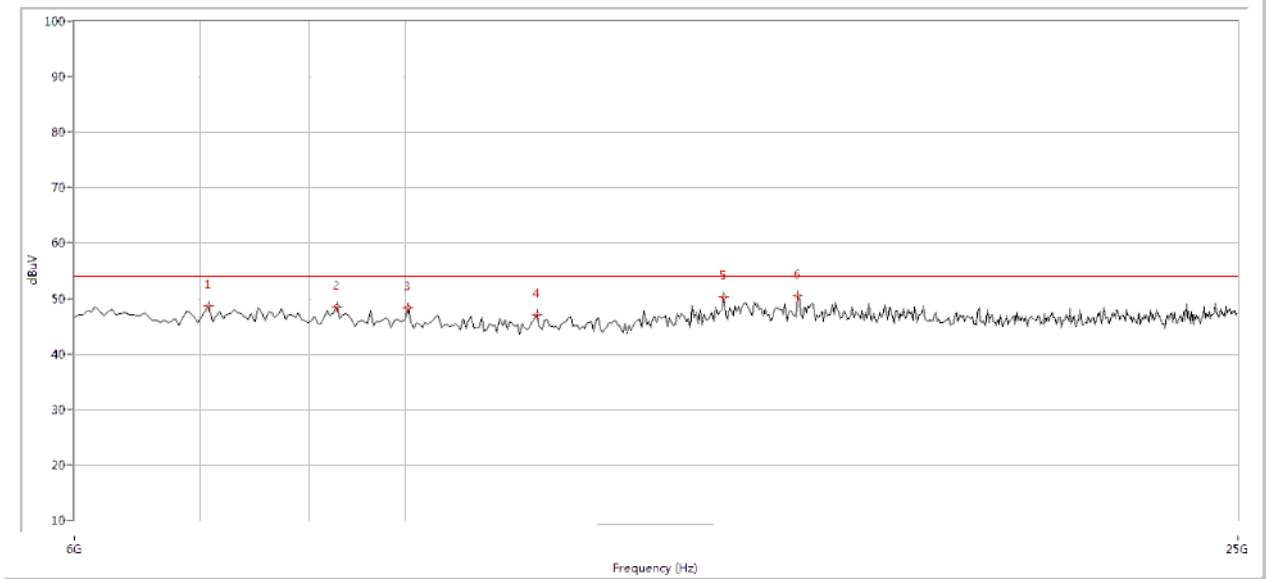
A.8.25, 802.11g LOW CHANNEL 1GHz to 6GHz, ANT V



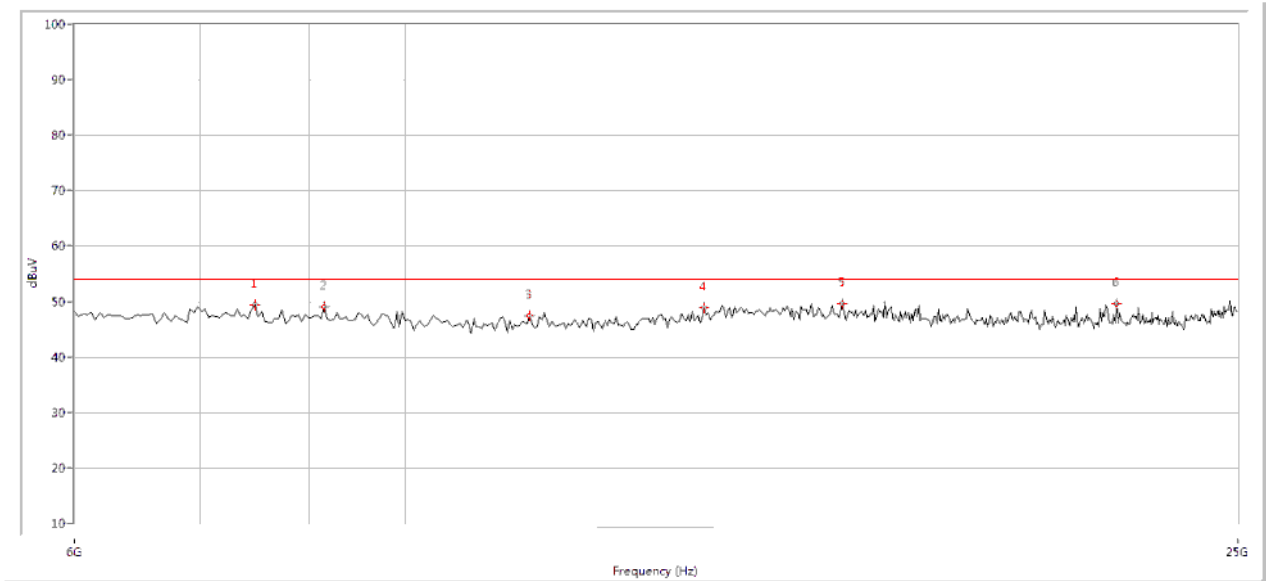
A.8.26, 802.11g LOW CHANNEL 1GHz to 6GHz, ANT H



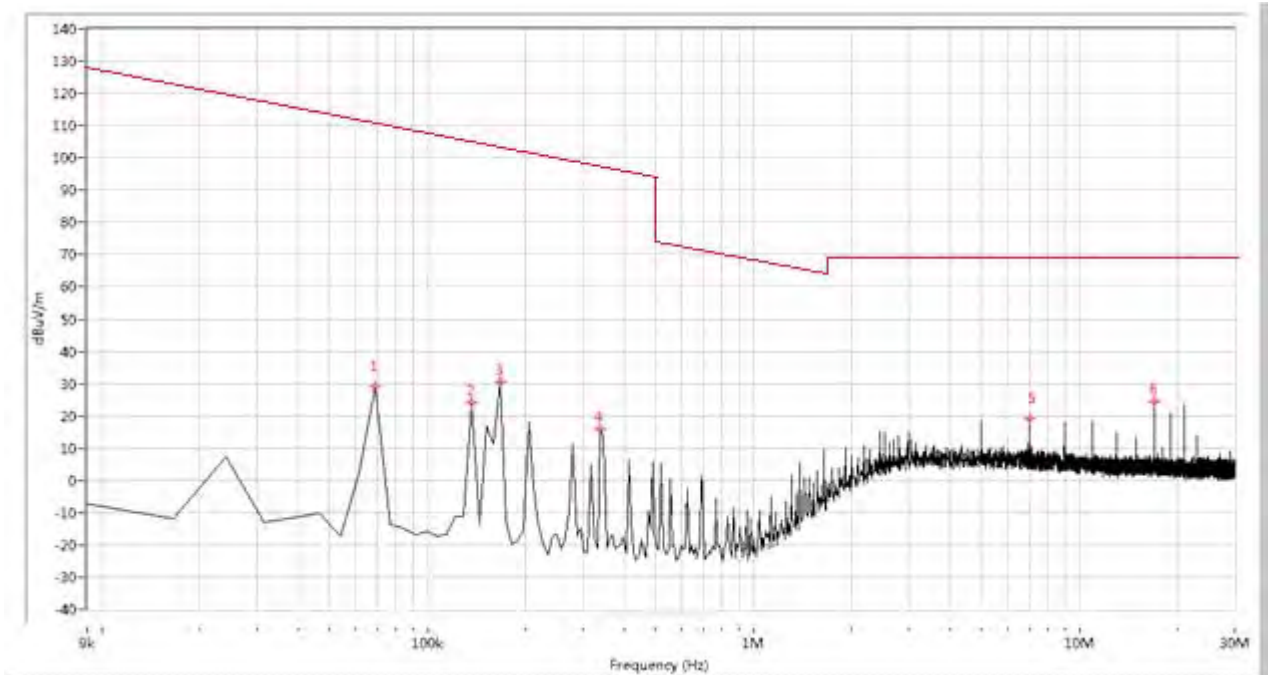
A.8.27, 802.11g LOW CHANNEL 6GHz to 25GHz, ANT V



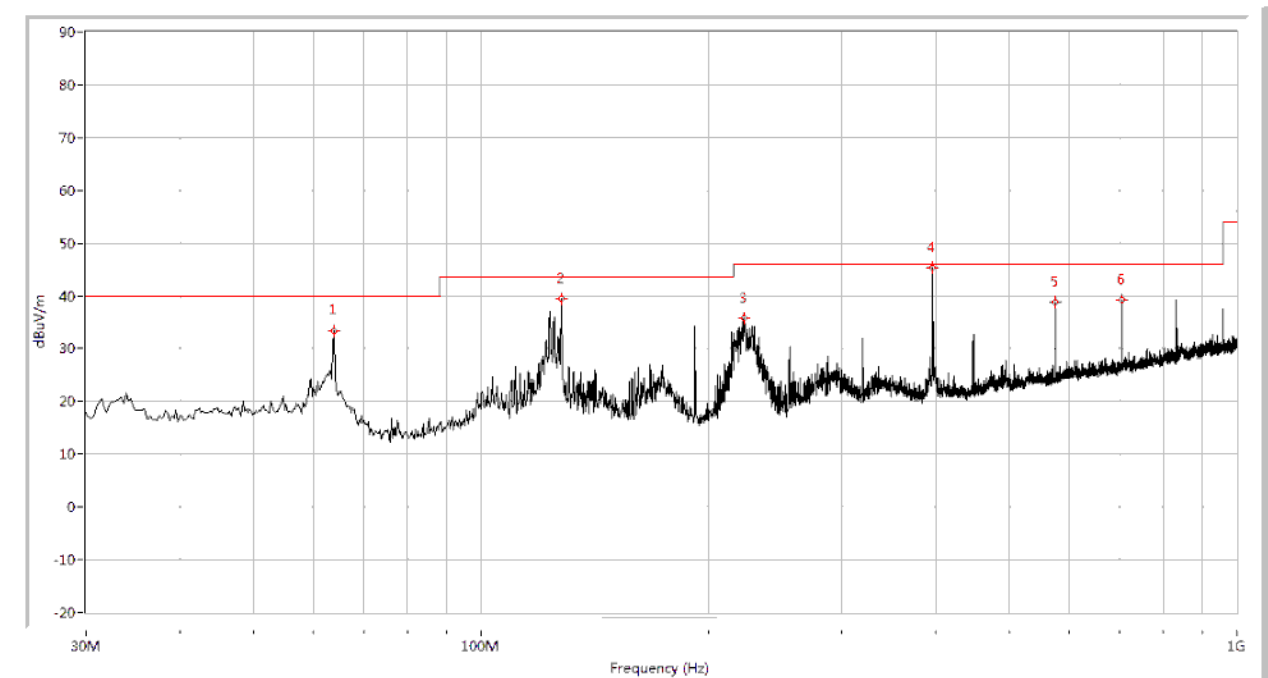
A.8.28, 802.11g LOW CHANNEL 6GHz to 25GHz, ANT H



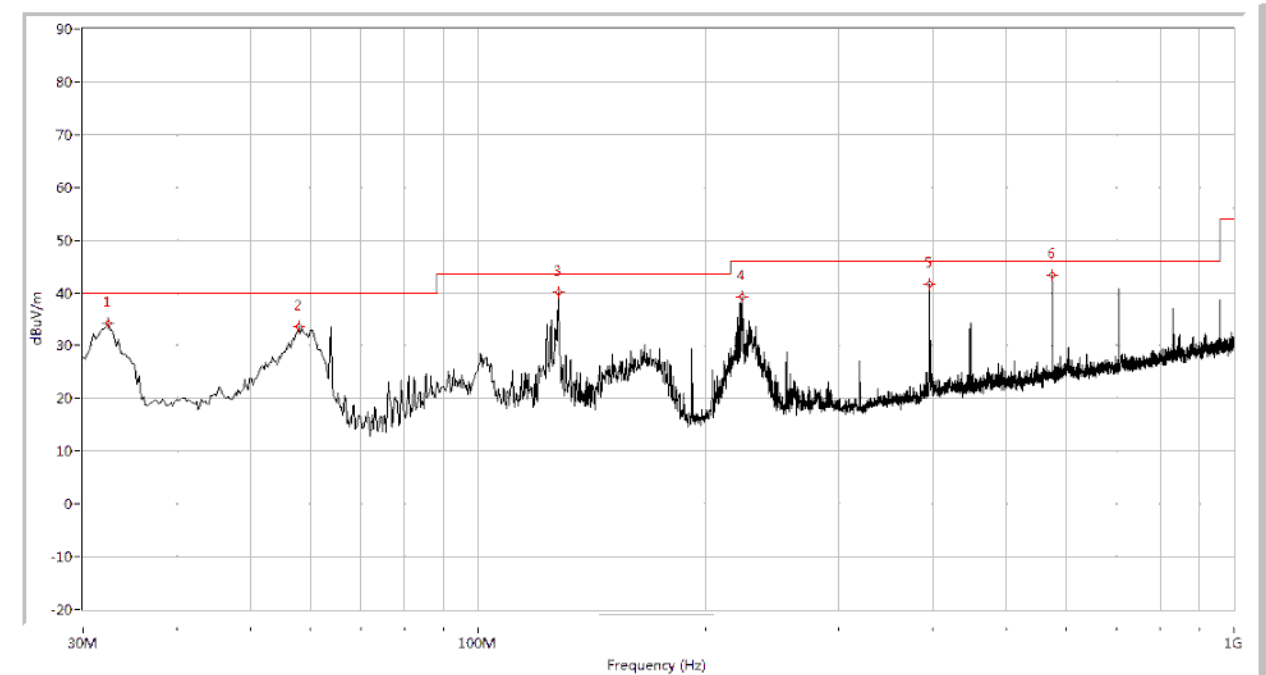
A.8.29, 802.11g MID CHANNEL Below 30MHz



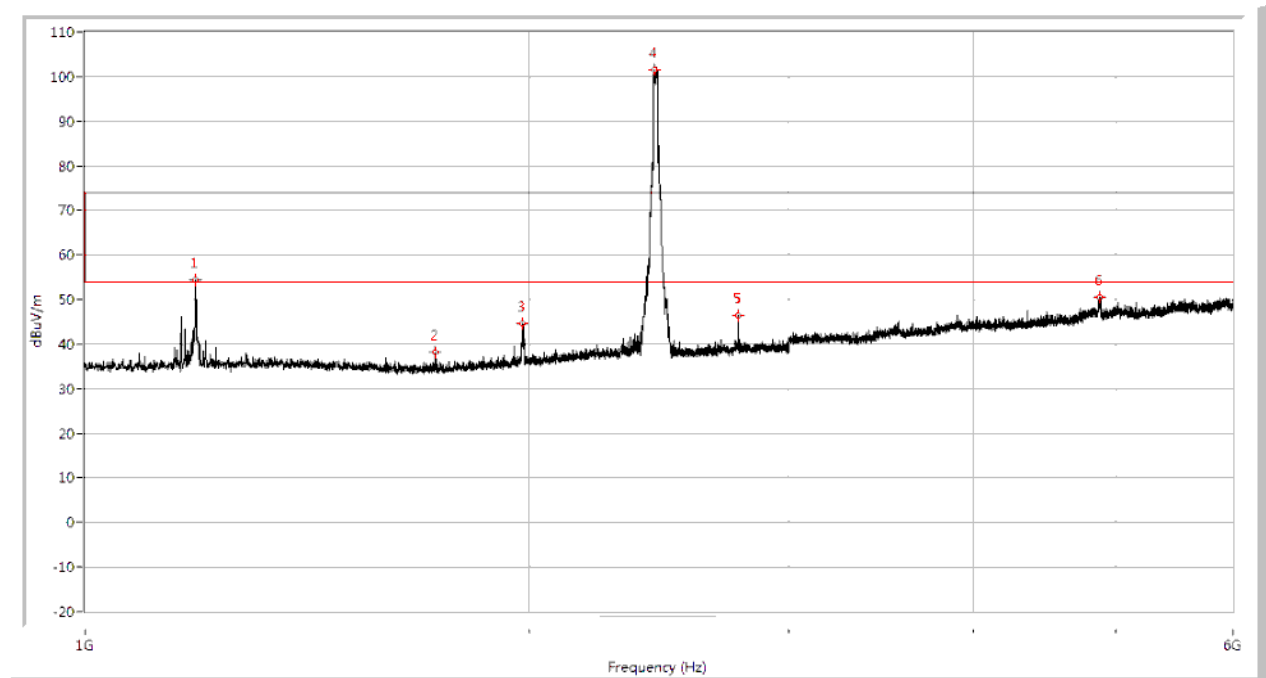
A.8.30, 802.11g MID CHANNEL 30MHz to 1GHz, ANT V



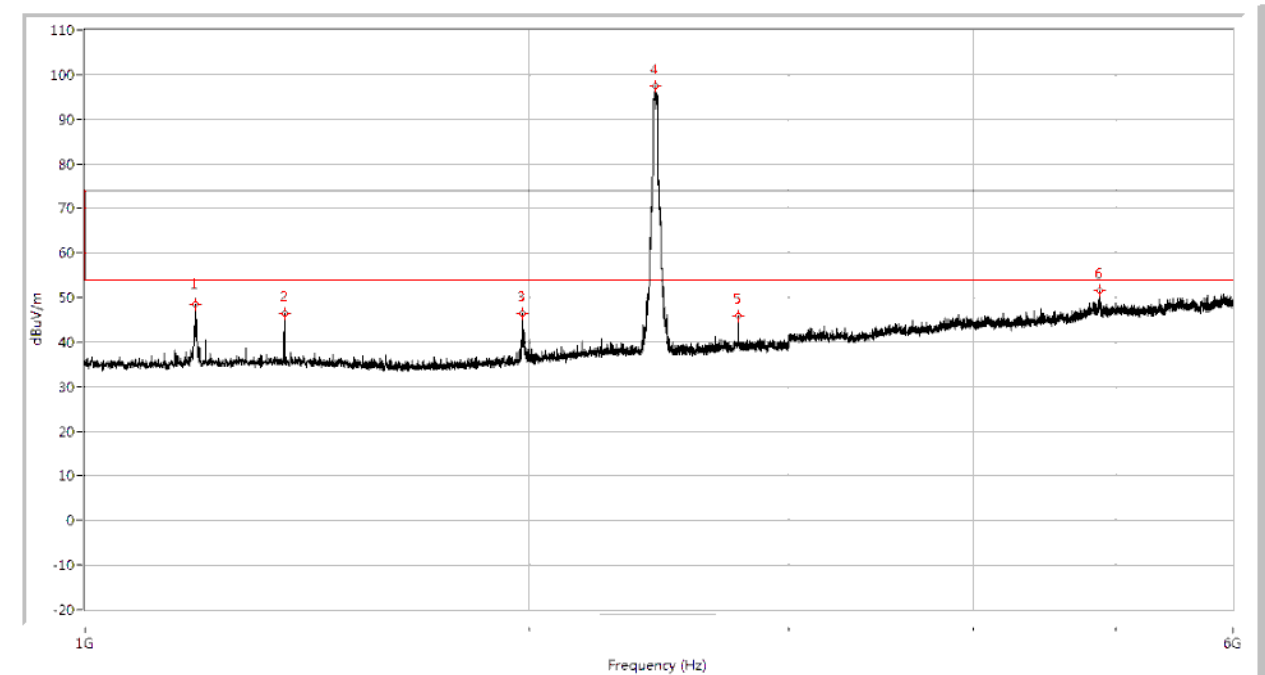
A.8.31, 802.11g MID CHANNEL 30MHz to 1GHz, ANT H



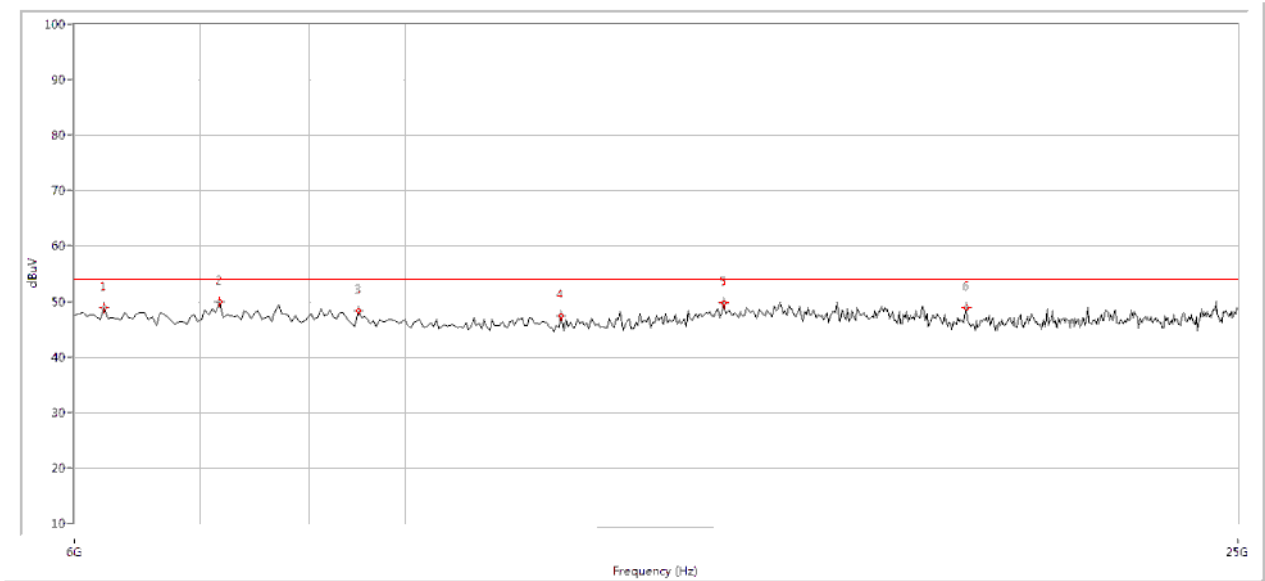
A.8.32, 802.11g MID CHANNEL 1GHz to 6GHz, ANT V



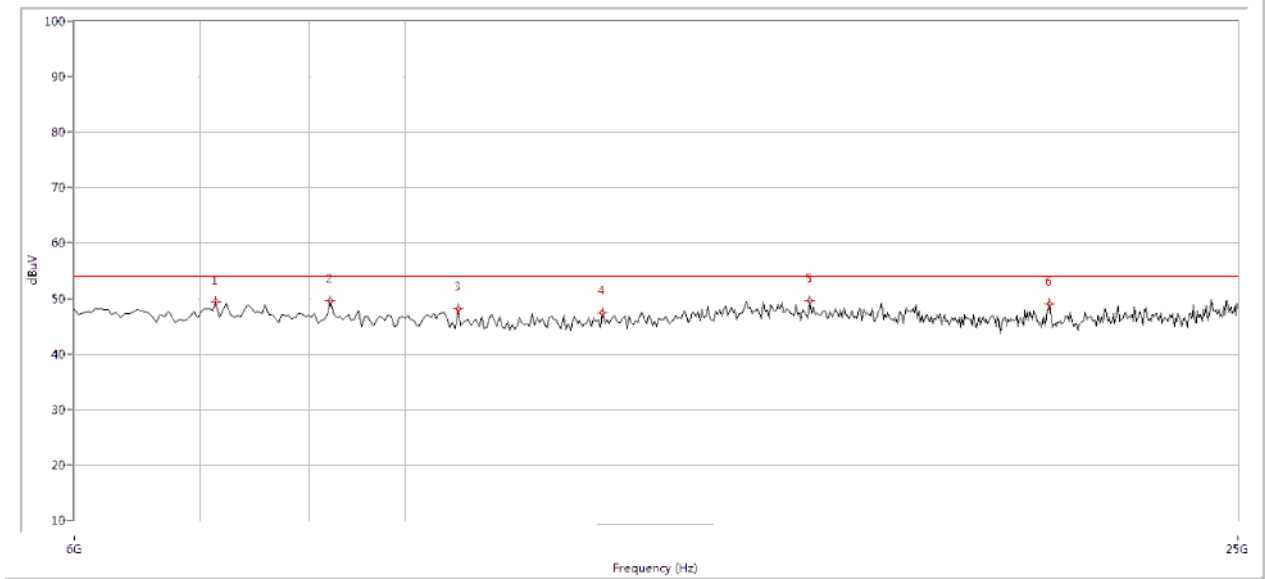
A.8.34, 802.11g MID CHANNEL 1GHz to 6GHz, ANT H



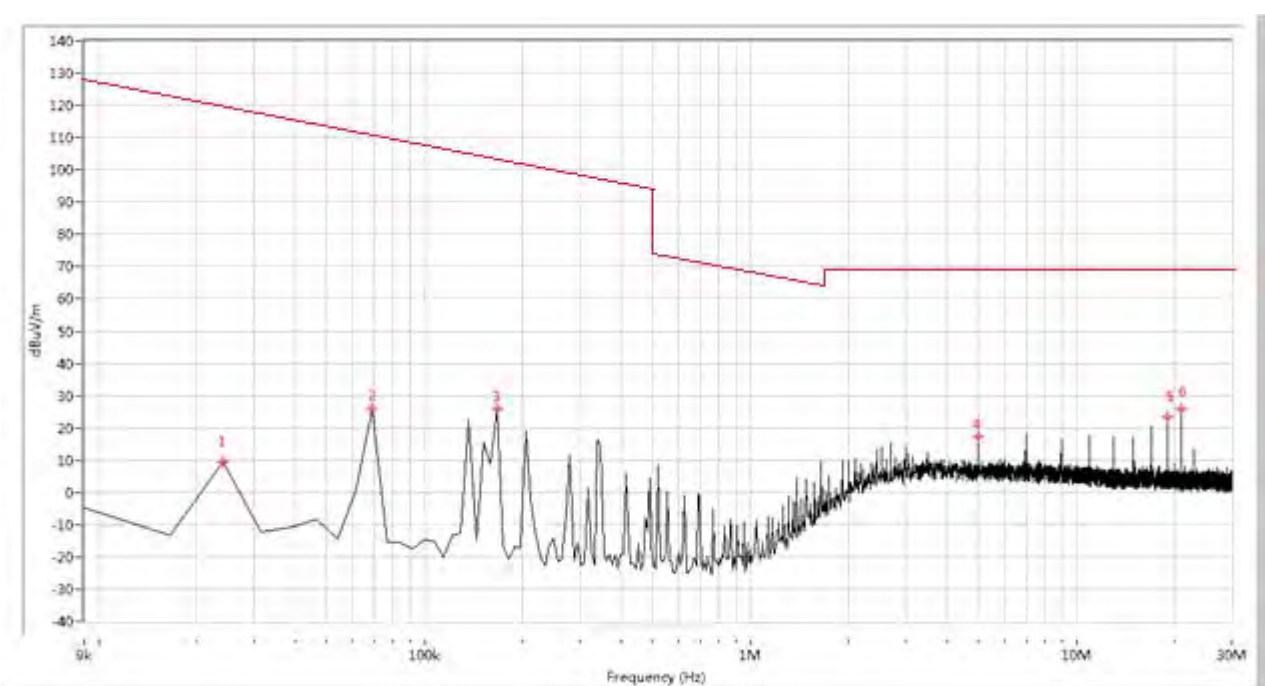
A.8.35, 802.11g MID CHANNEL 6GHz to 25GHz, ANT V



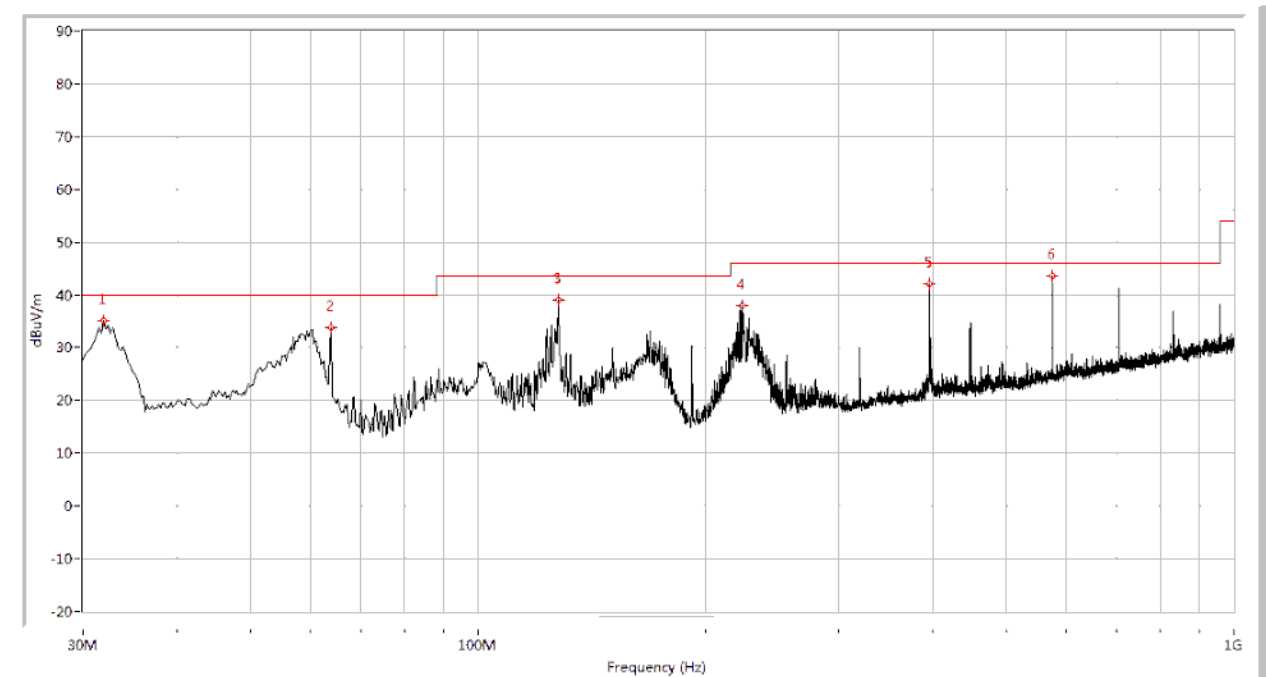
A.8.36, 802.11g MID CHANNEL 6GHz to 25GHz, ANT H



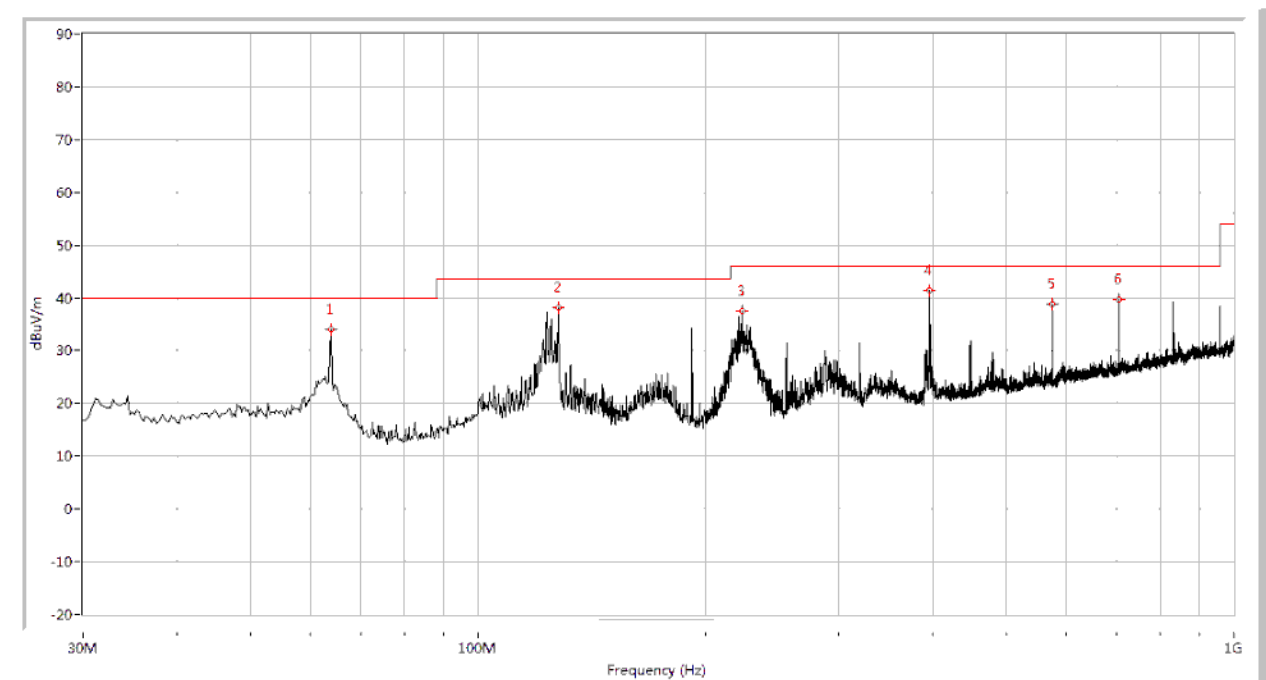
A.8.37, 802.11g HIGH CHANNEL Below 30MHz



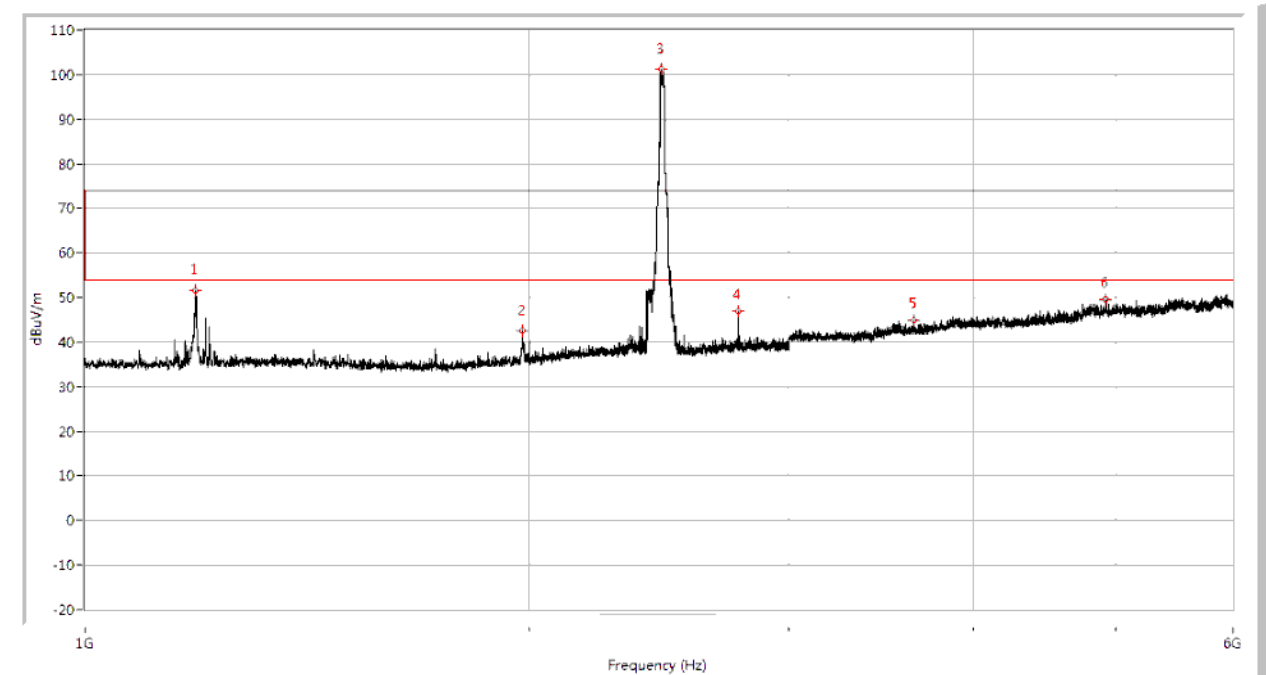
A.8.38, 802.11g HIGH CHANNEL 30MHz to 1GHz, ANT V



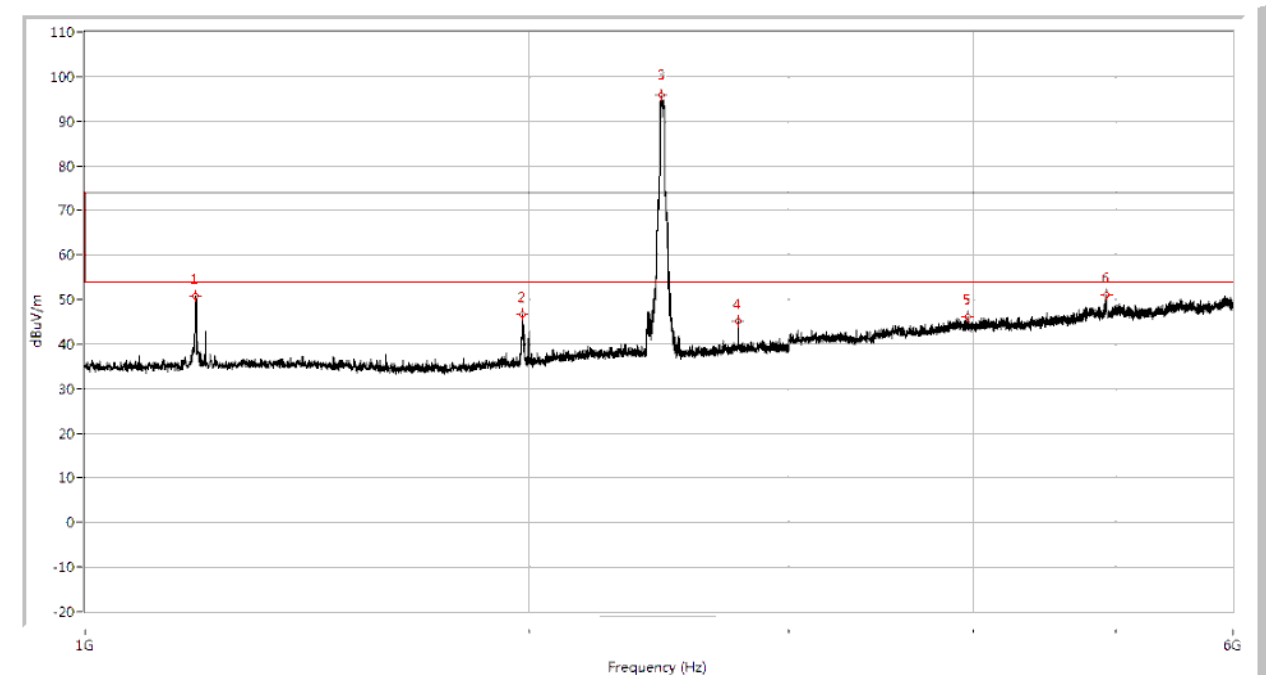
A.8.39, 802.11g HIGH CHANNEL 30MHz to 1GHz, ANT H



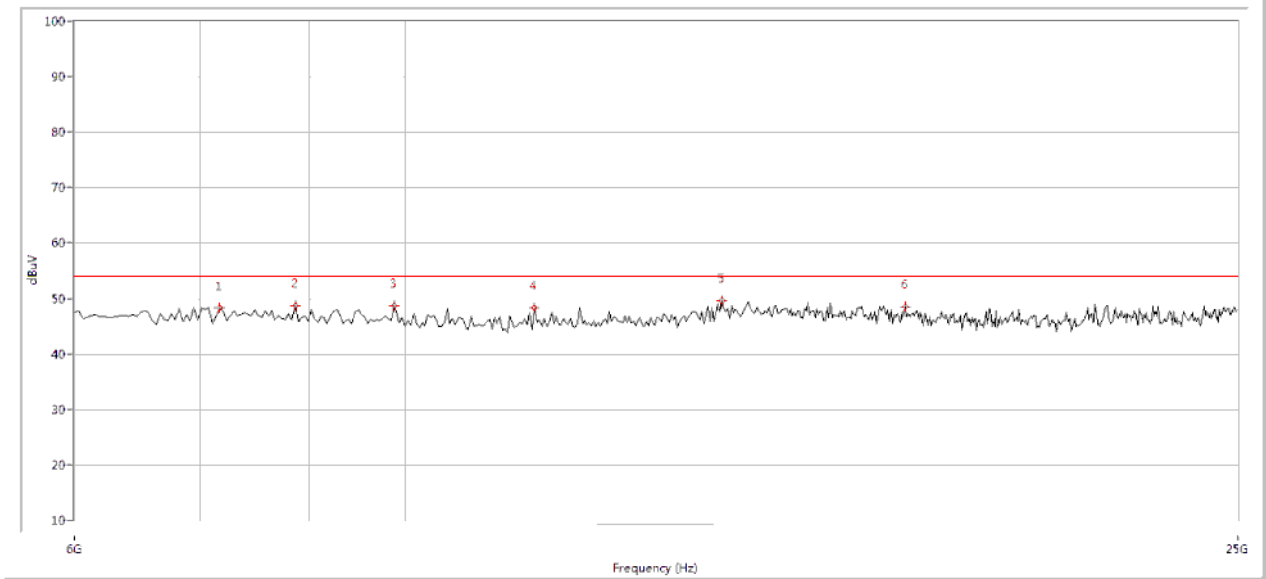
A.8.40, 802.11g HIGH CHANNEL 1GHz to 6GHz, ANT V



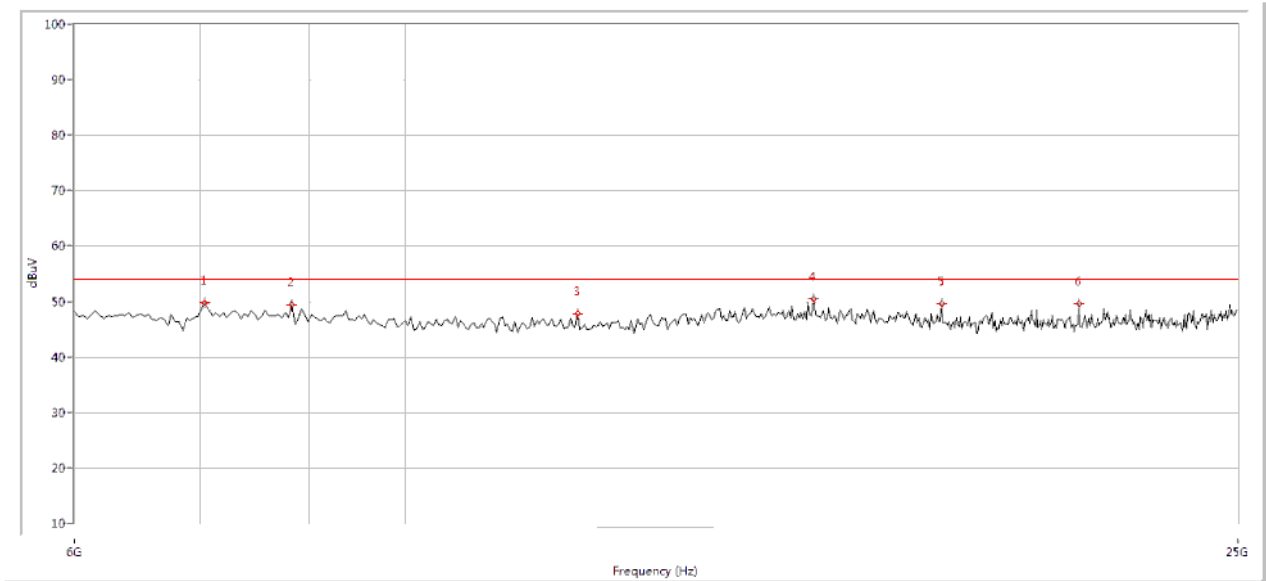
A.8.41, 802.11g HIGH CHANNEL 1GHz to 6GHz, ANT H



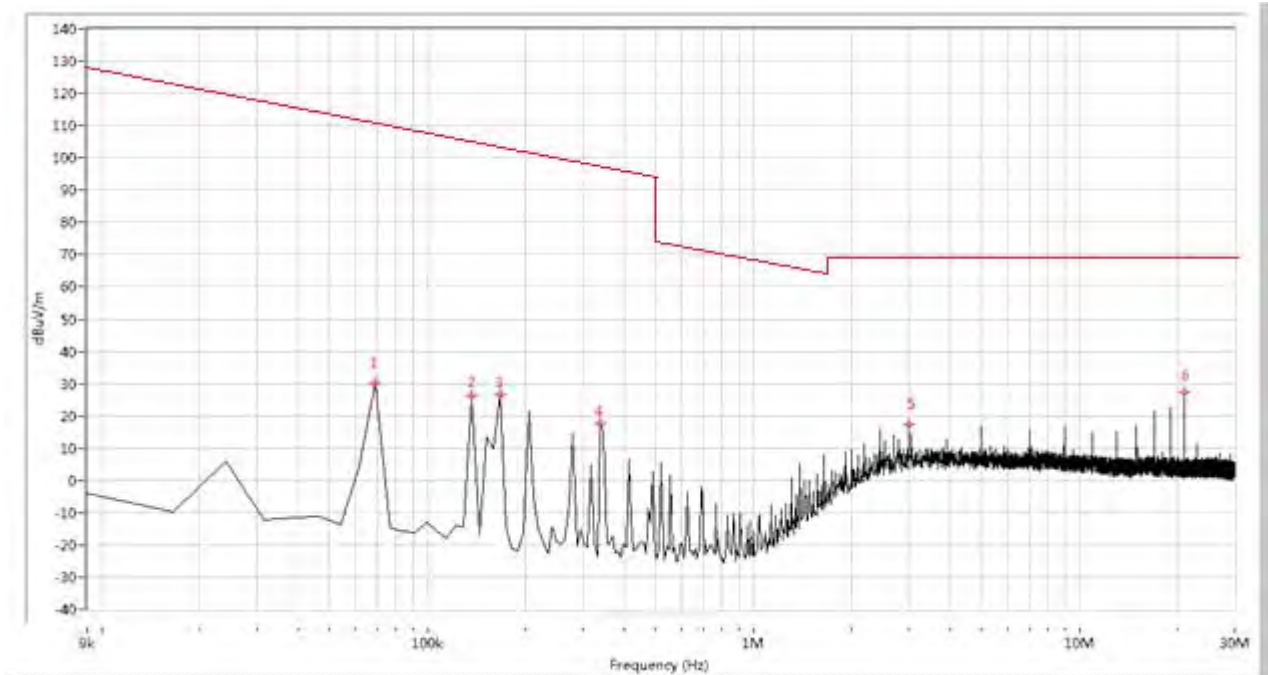
A.8.42, 802.11g HIGH CHANNEL 6GHz to 25GHz, ANT V



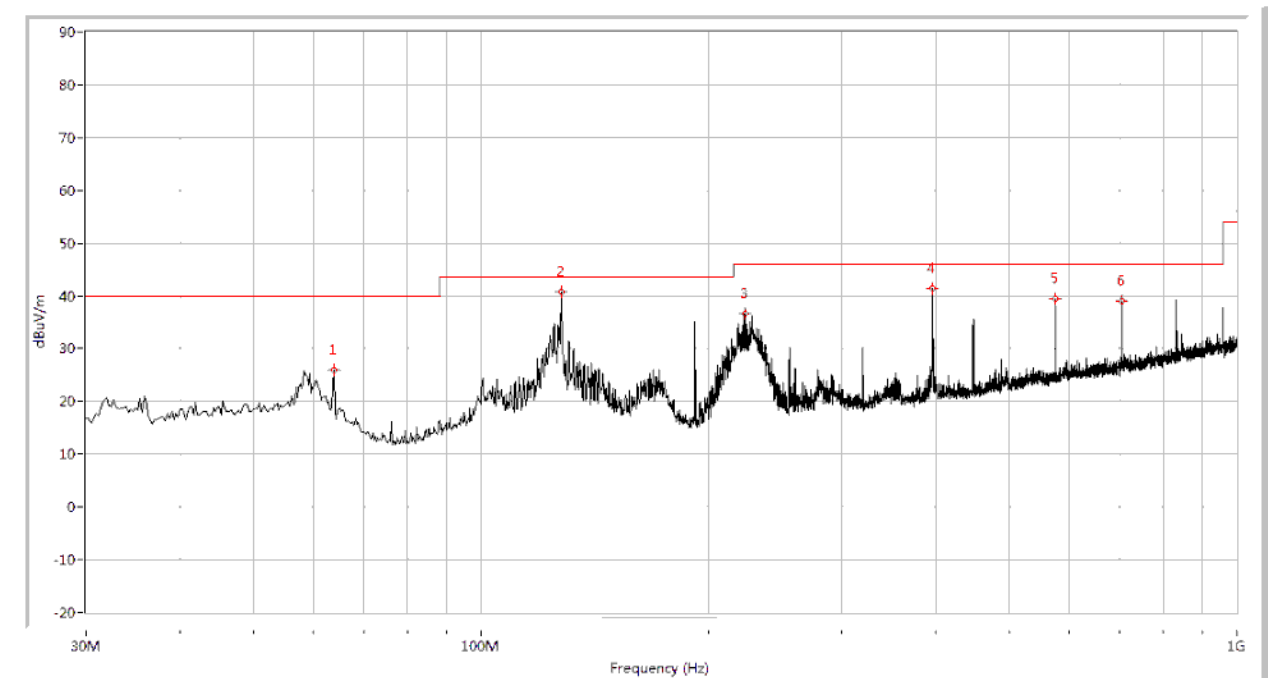
A.8.43, 802.11g HIGH CHANNEL 6GHz to 25GHz, ANT H



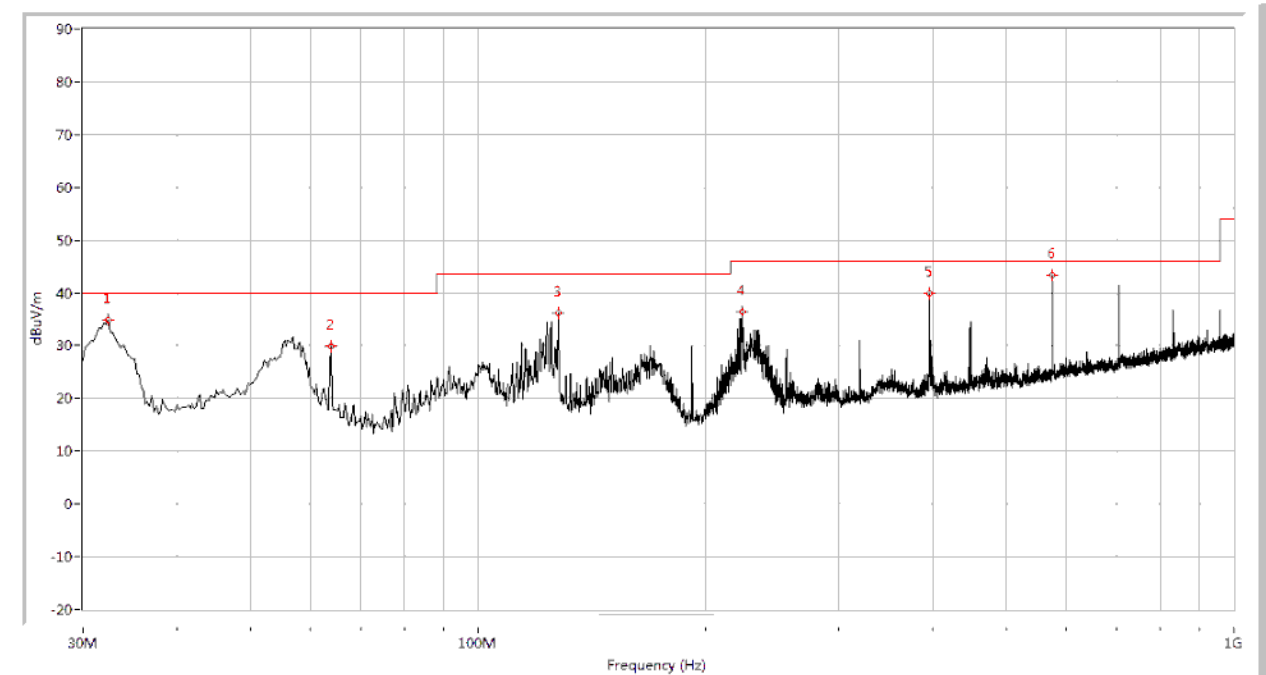
A.8.44, 802.11n-20MHz LOW CHANNEL Below 30MHz



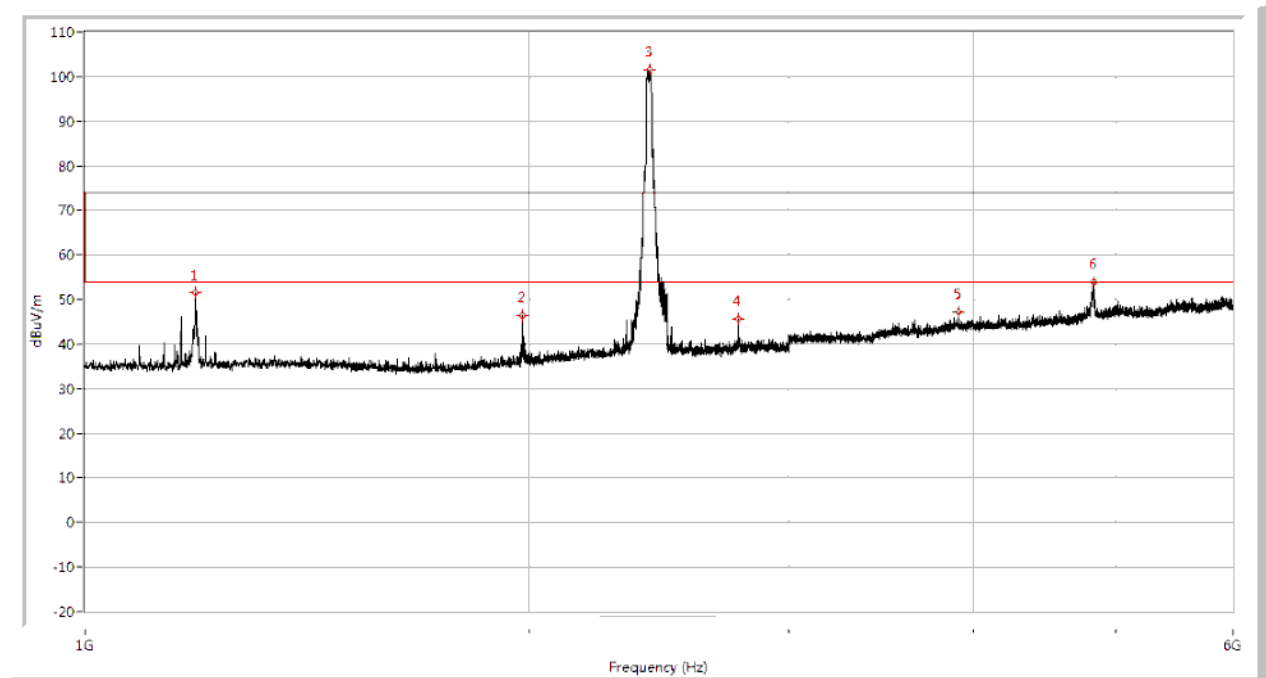
A.8.45, 802.11n-20MHz LOW CHANNEL 30MHz to 1GHz, ANT V



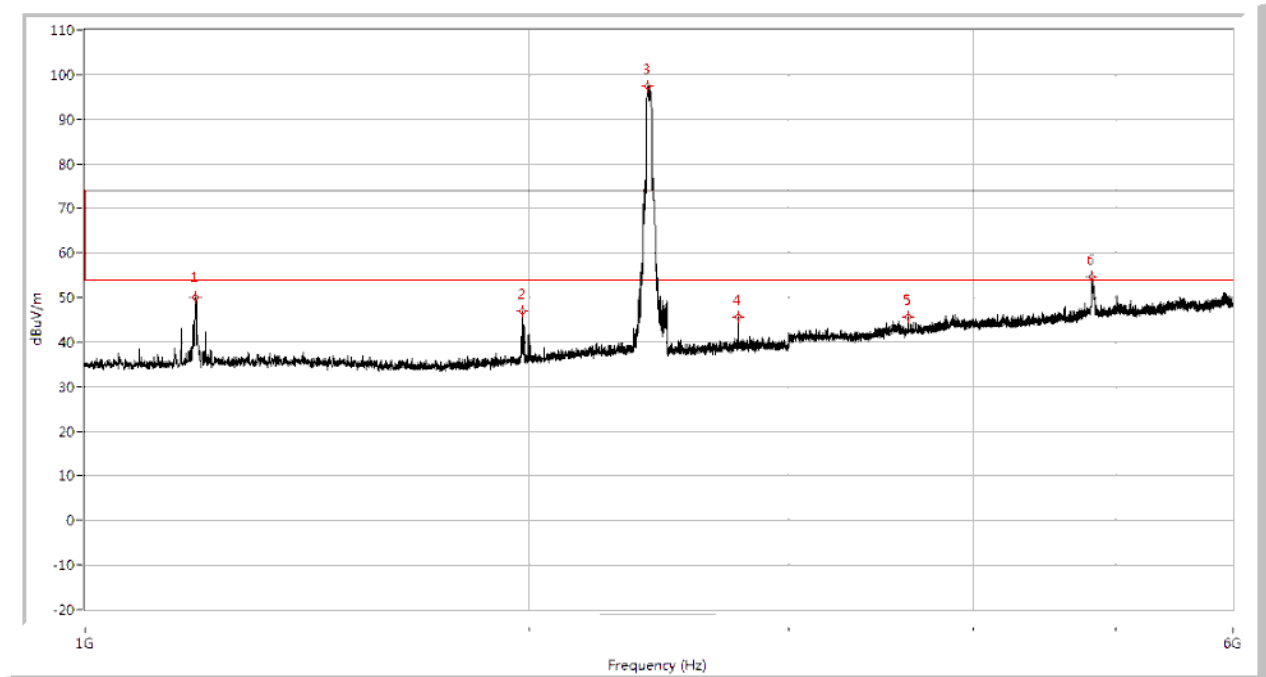
A.8.46, 802.11n-20MHz LOW CHANNEL 30MHz to 1GHz, ANT H



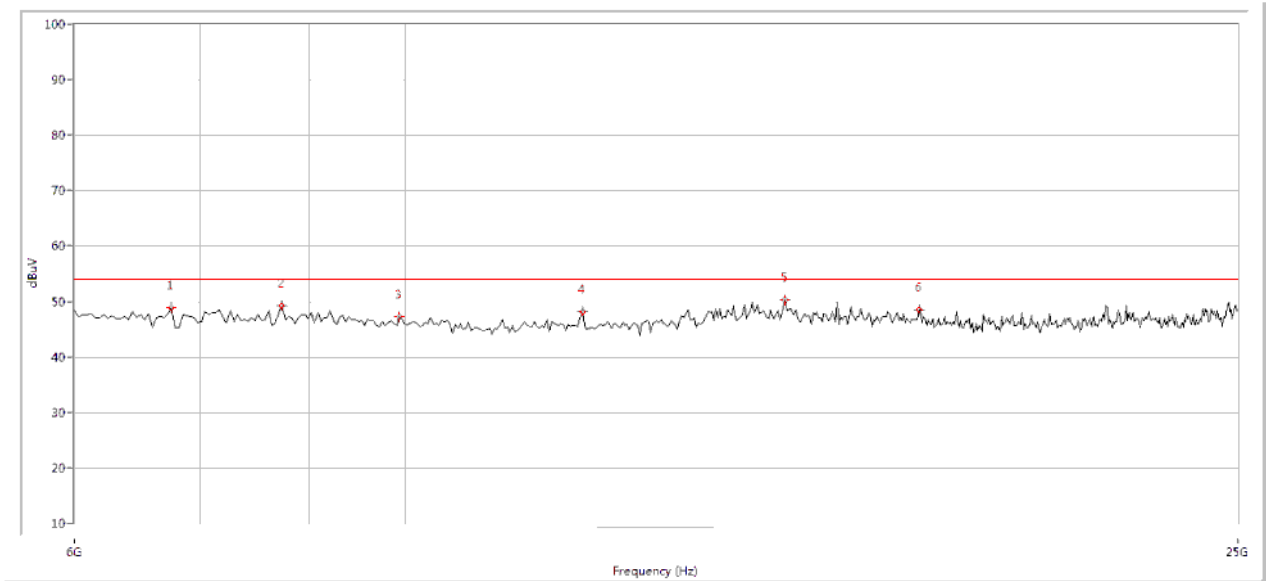
A.8.47, 802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT V



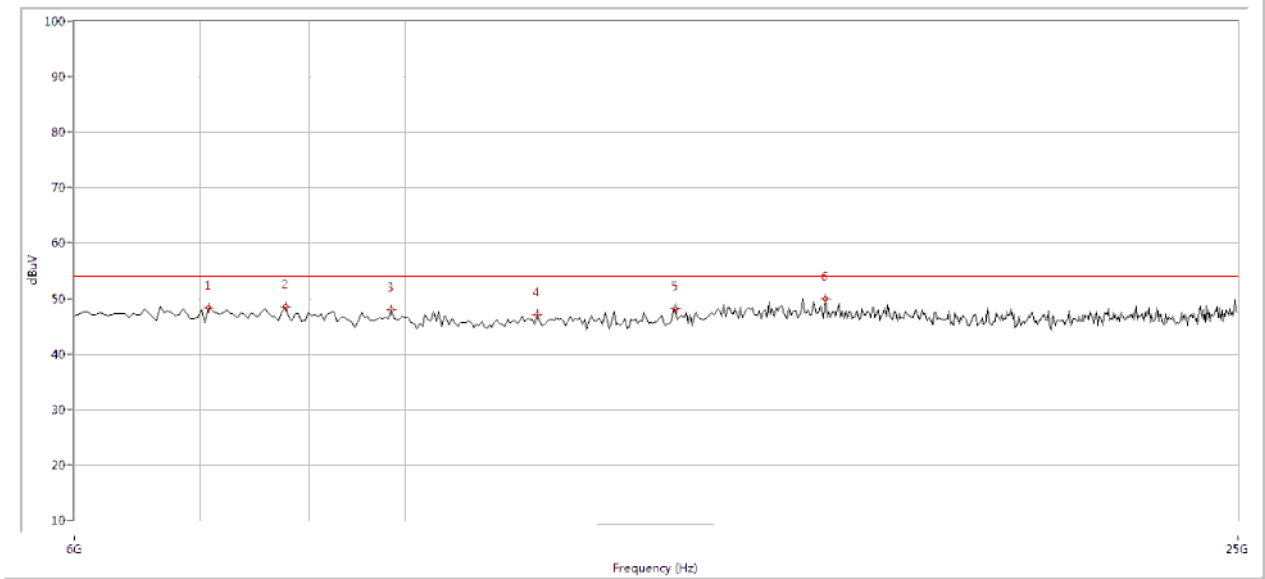
A.8.48, 802.11n-20MHz LOW CHANNEL 1GHz to 6GHz, ANT H



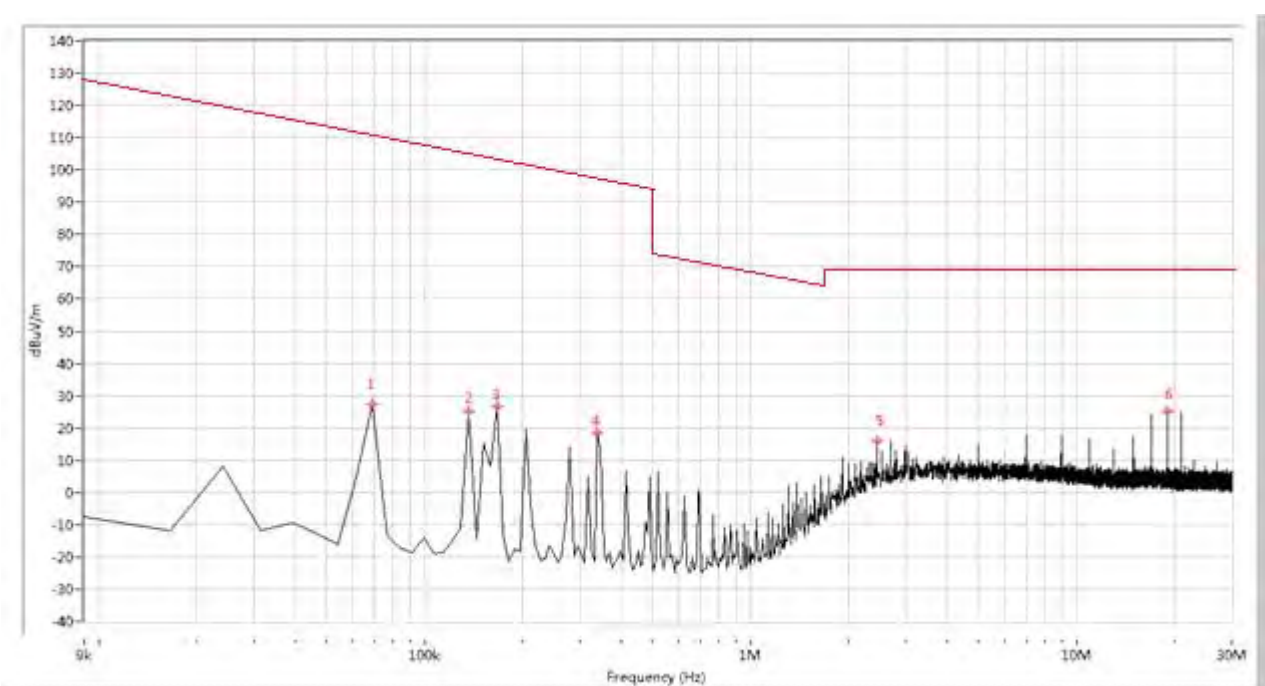
A.8.49, 802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT V



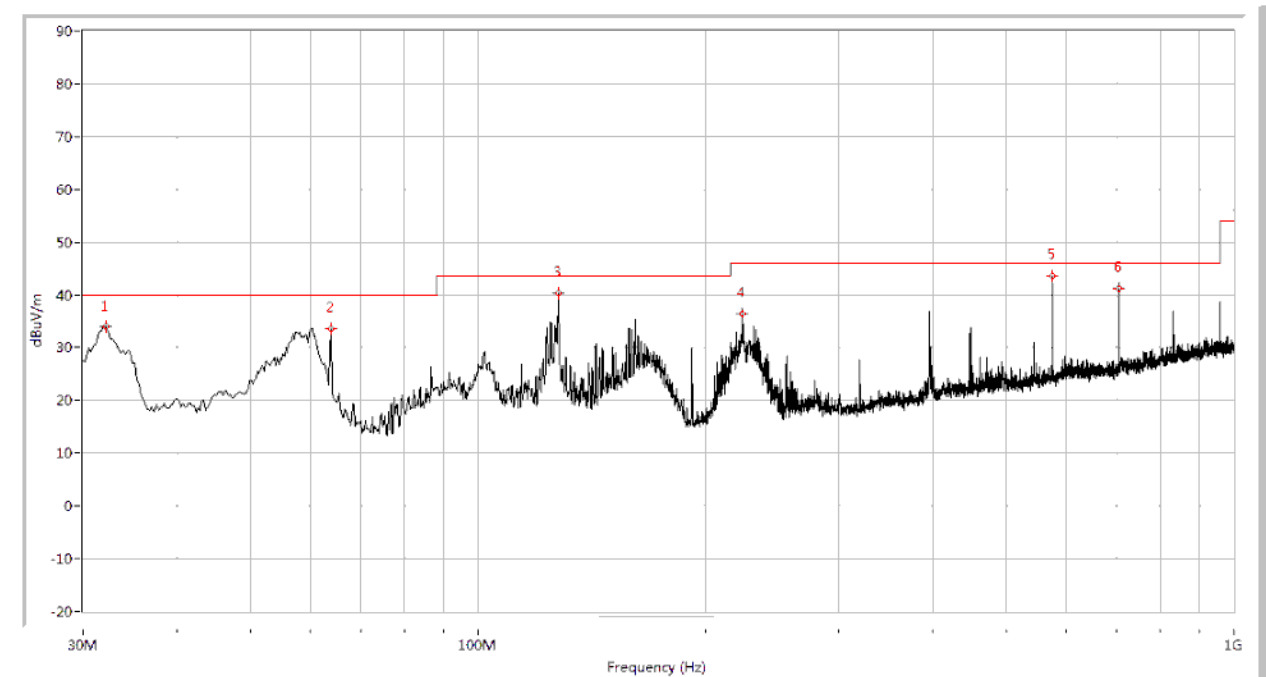
A.8.50, 802.11n-20MHz LOW CHANNEL 6GHz to 25GHz, ANT H



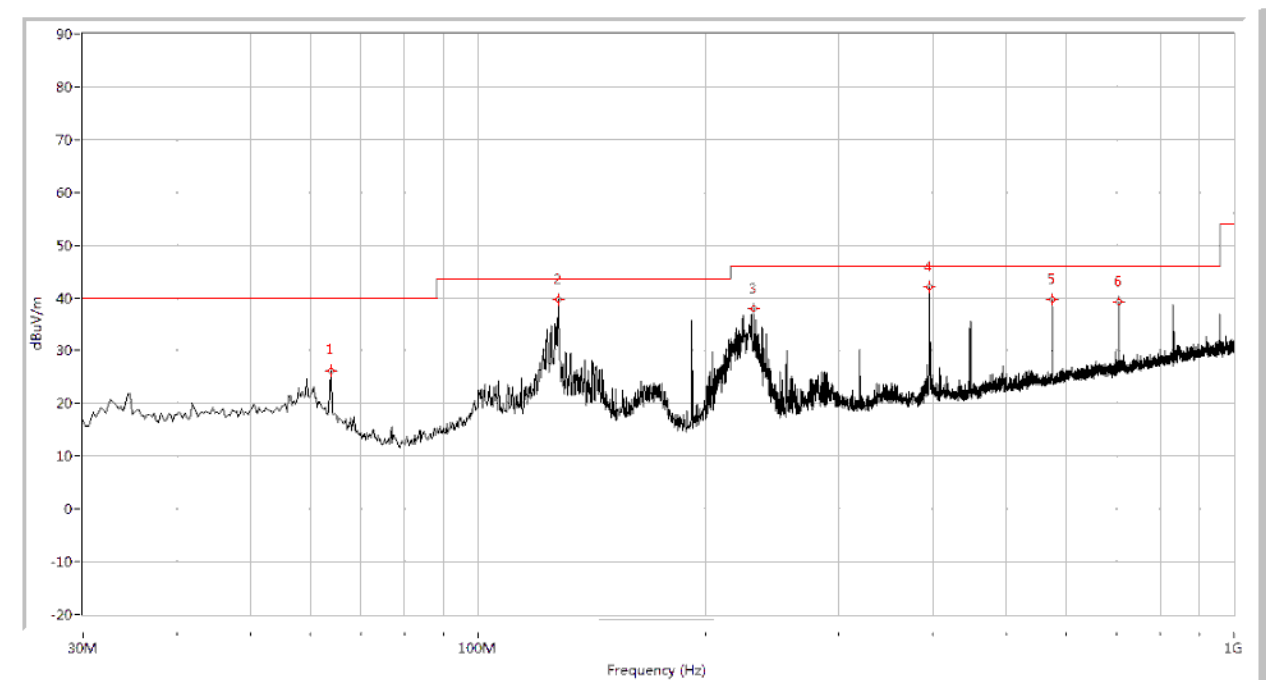
A.8.51, 802.11n-20MHz MID CHANNEL Below 30MHz



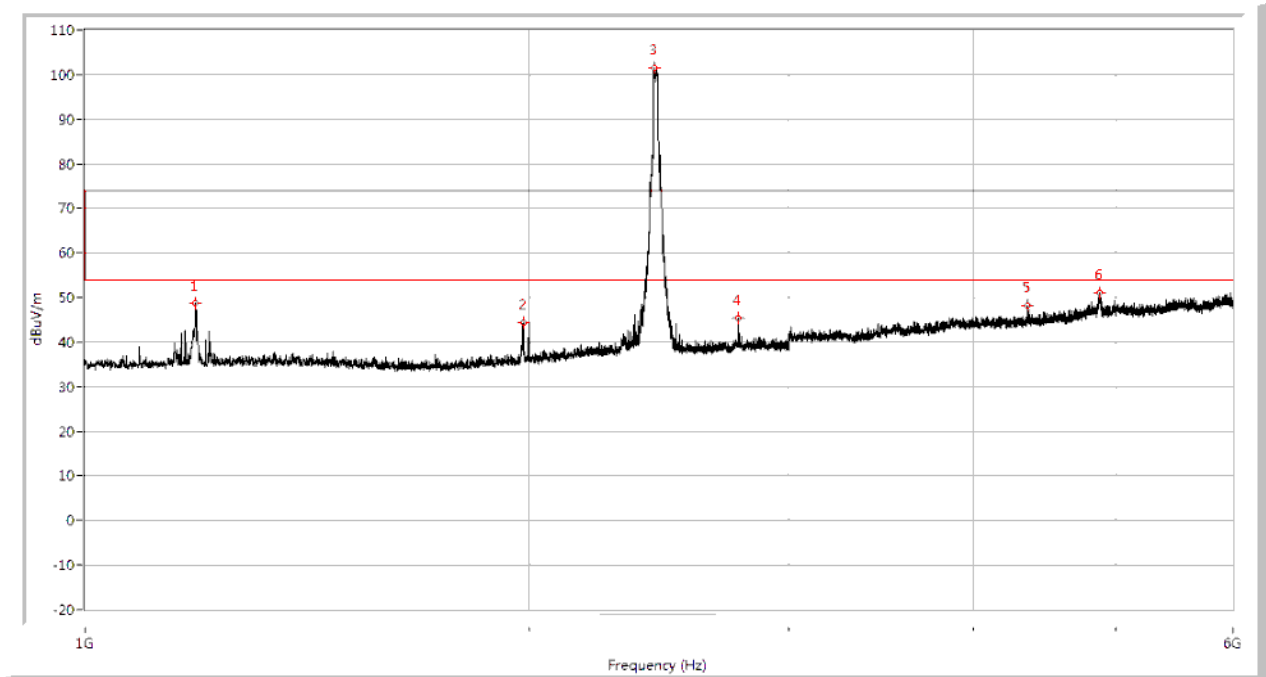
A.8.52, 802.11n-20MHz MID CHANNEL 30MHz to 1GHz, ANT V



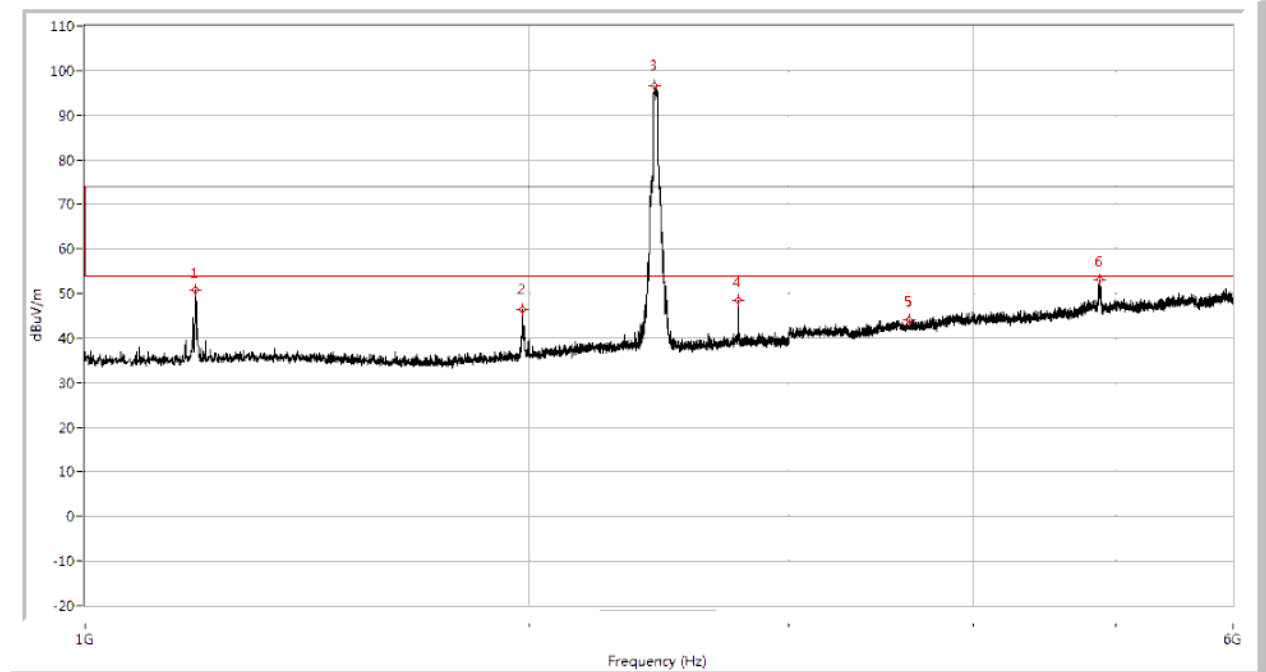
A.8.53, 802.11n-20MHz MID CHANNEL 30MHz to 1GHz, ANT H



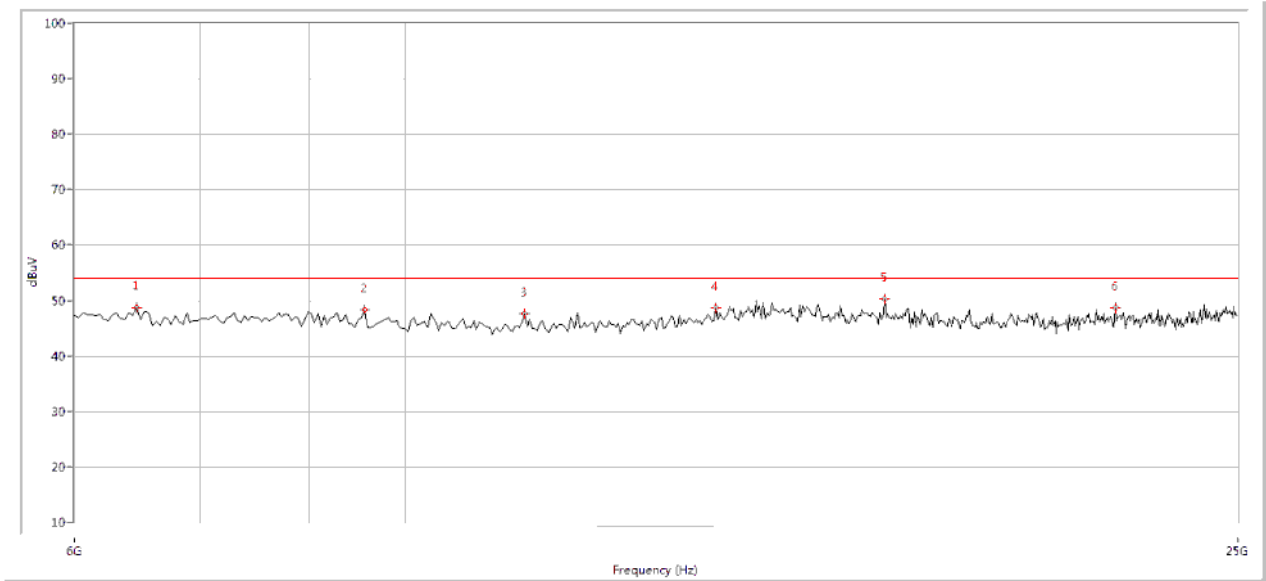
A.8.54, 802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT V



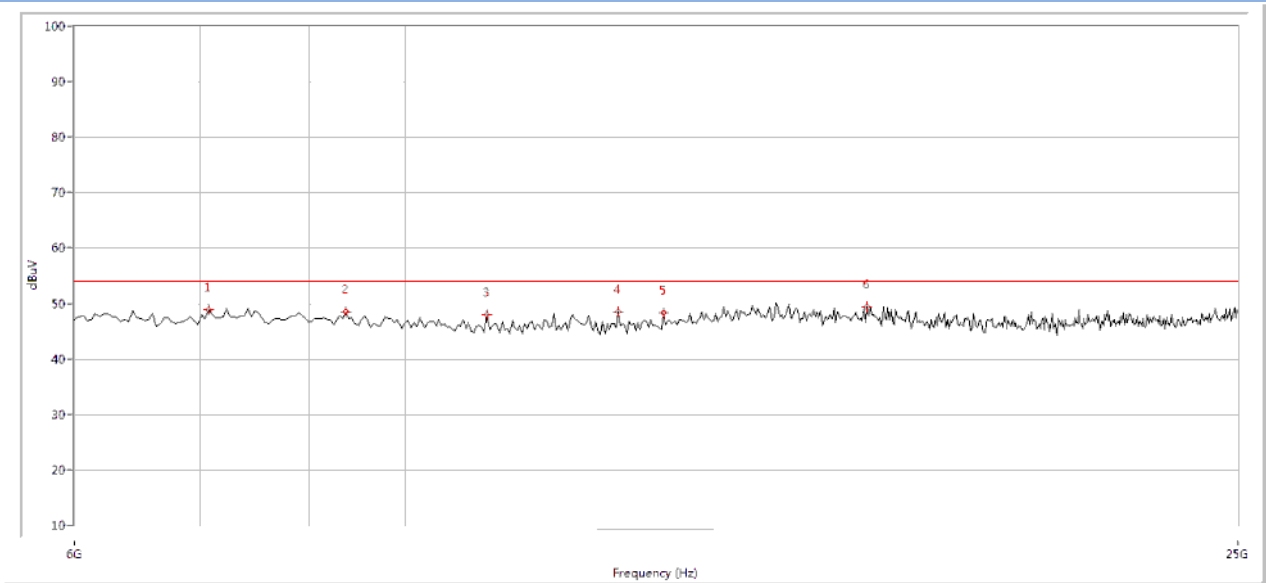
A.8.55, 802.11n-20MHz MID CHANNEL 1GHz to 6GHz, ANT H



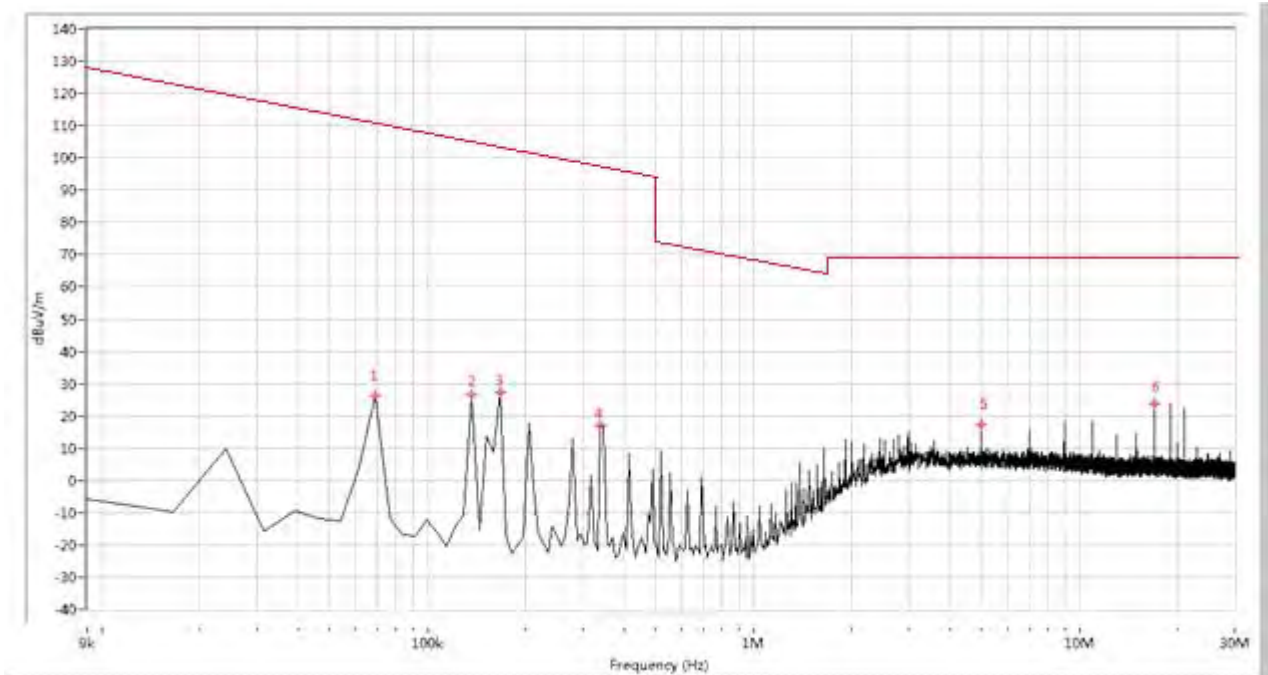
A.8.56, 802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT V



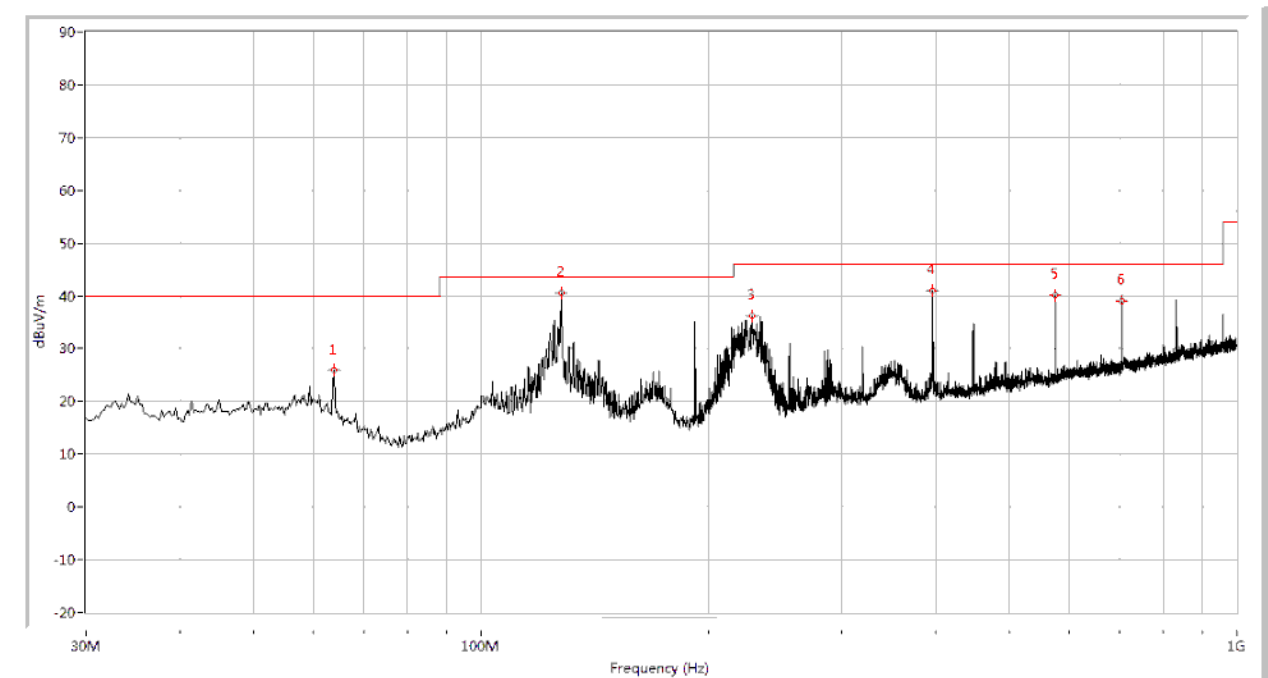
A.8.57, 802.11n-20MHz MID CHANNEL 6GHz to 25GHz, ANT H



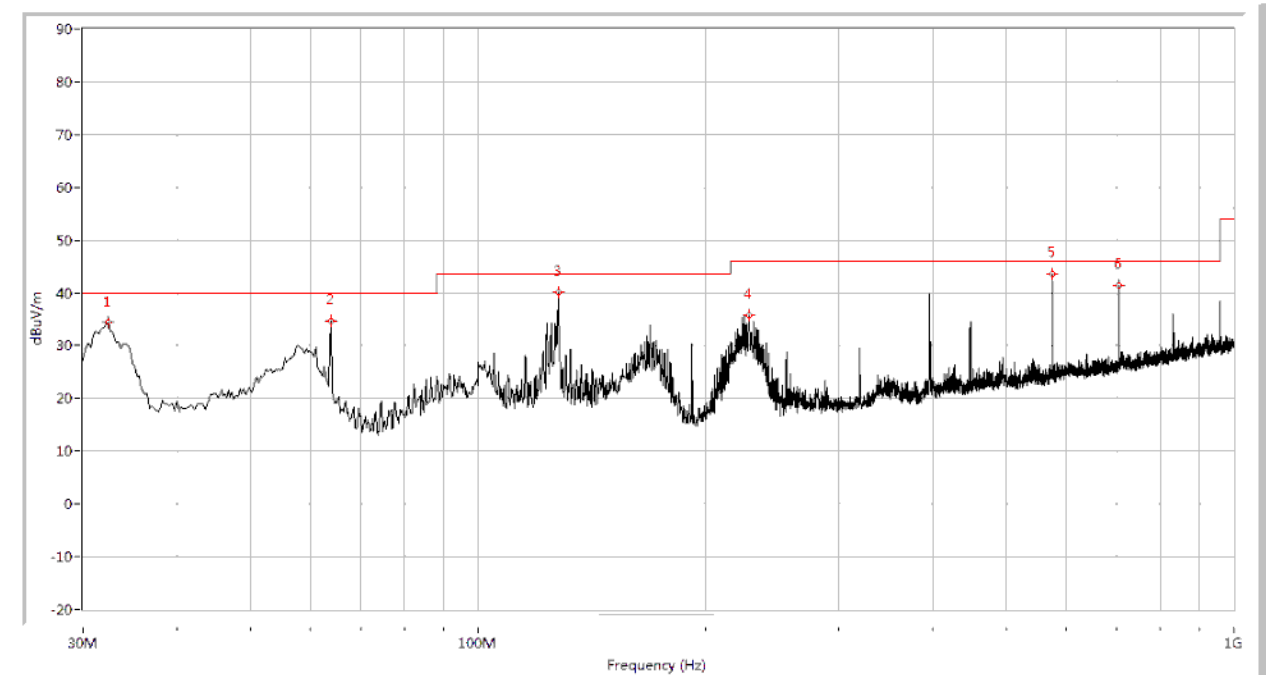
A.8.58, 802.11n-20MHz HIGH CHANNEL Below 30MHz



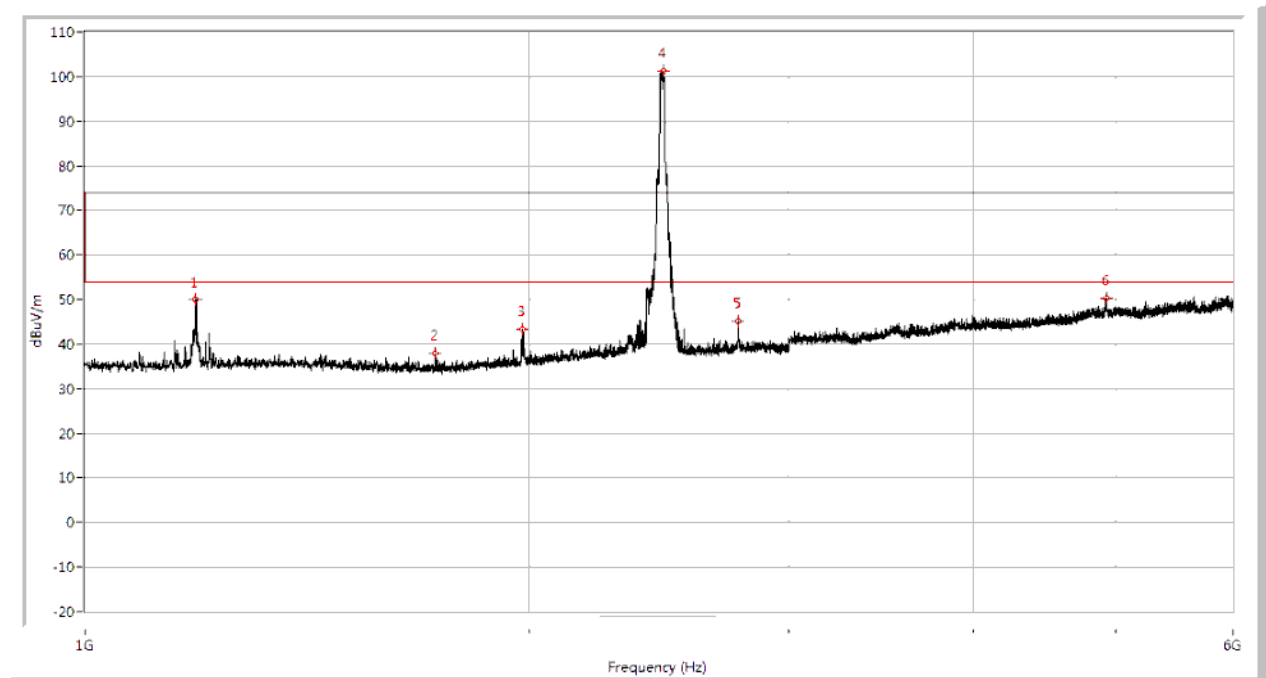
A.8.59, 802.11n-20MHz HIGH CHANNEL 30MHz to 1GHz, ANT V



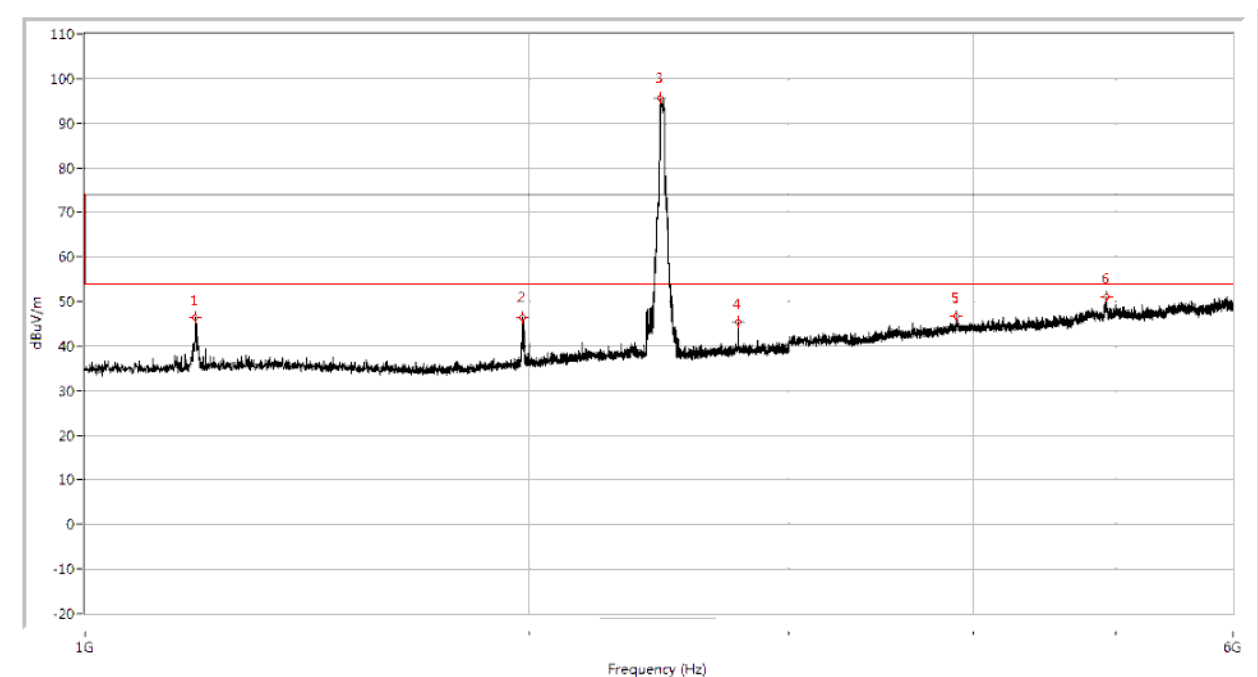
A.8.60, 802.11n-20MHz HIGH CHANNEL 30MHz to 1GHz, ANT H



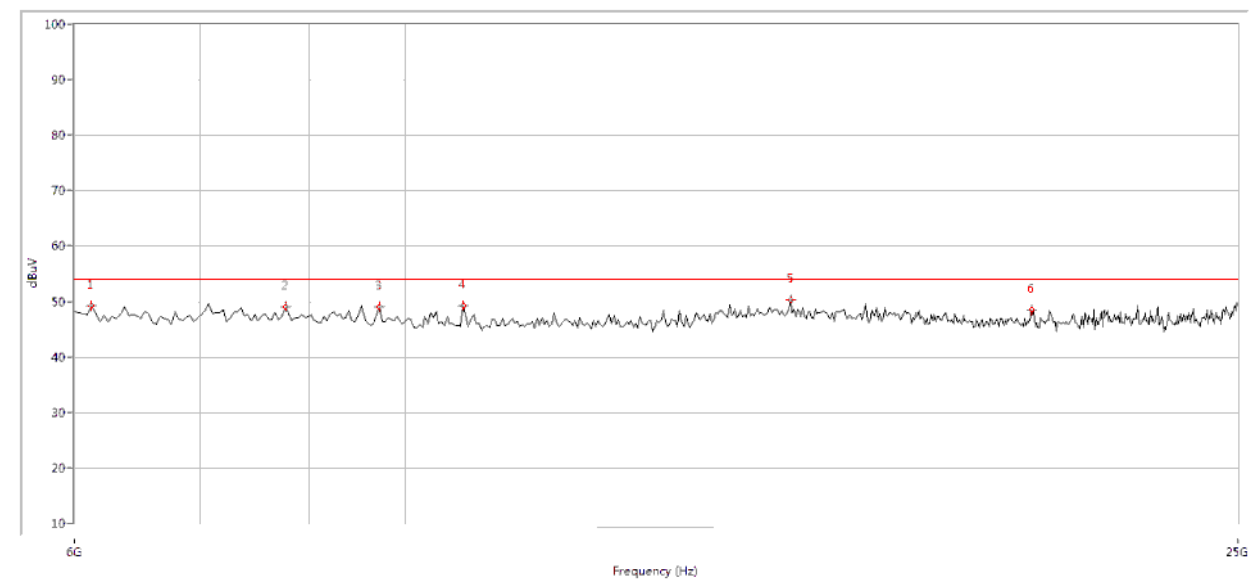
A.8.61, 802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT V



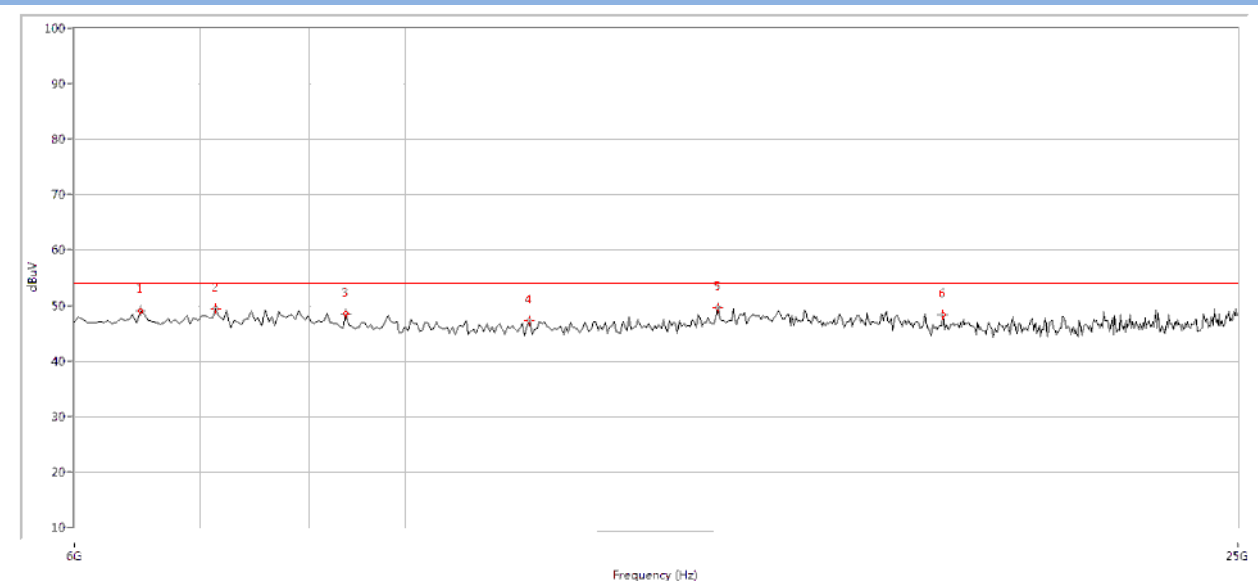
A.8.62, 802.11n-20MHz HIGH CHANNEL 1GHz to 6GHz, ANT H



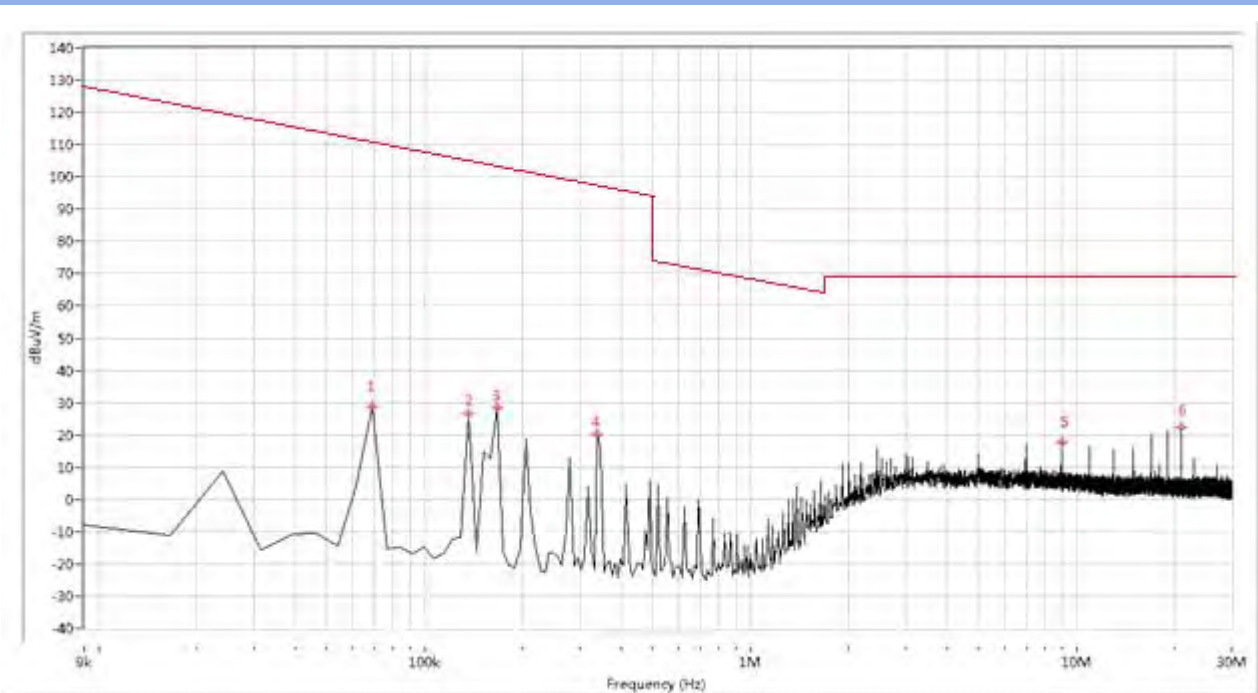
A.8.63, 802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT V



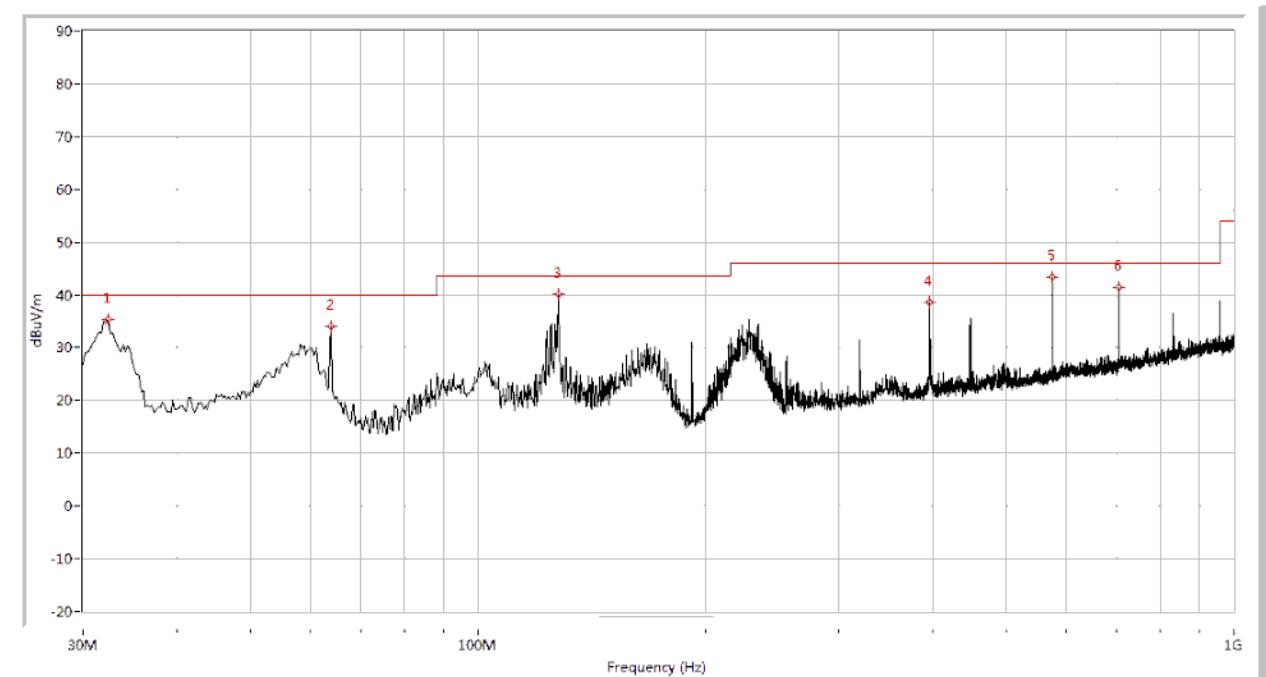
A.8.64, 802.11n-20MHz HIGH CHANNEL 6GHz to 25GHz, ANT H



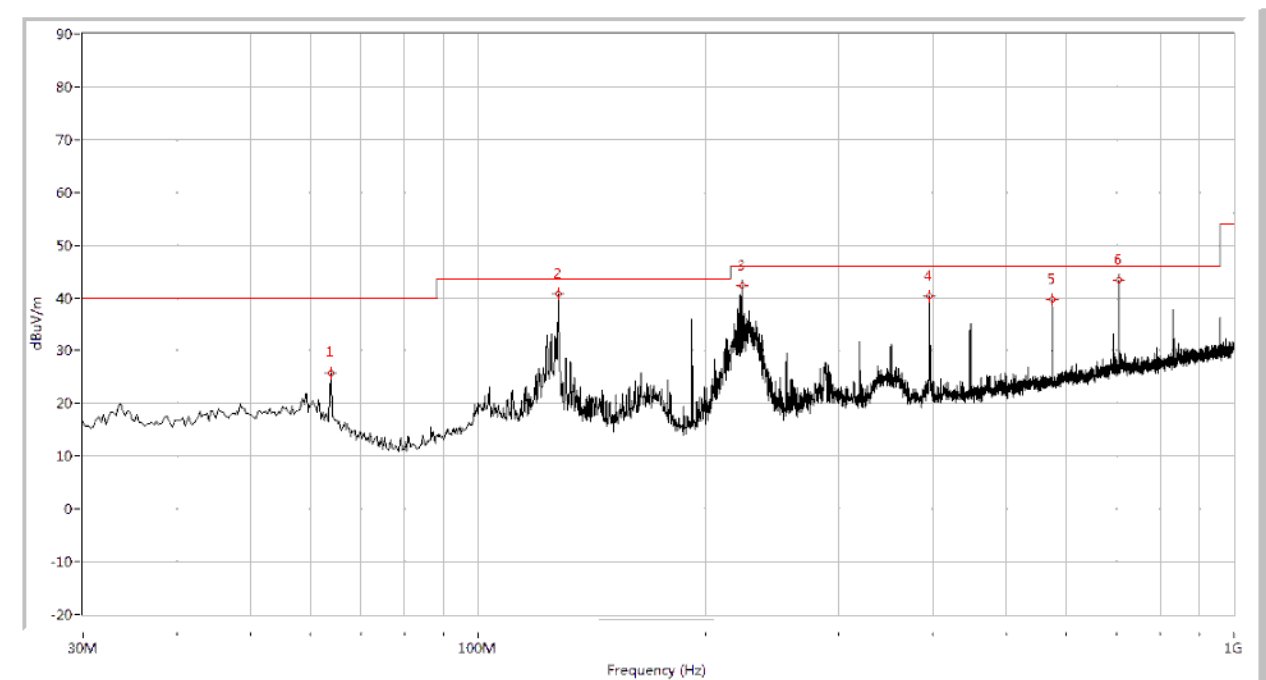
A.8.65, 802.11n-40MHz LOW MODE Below 30MHz



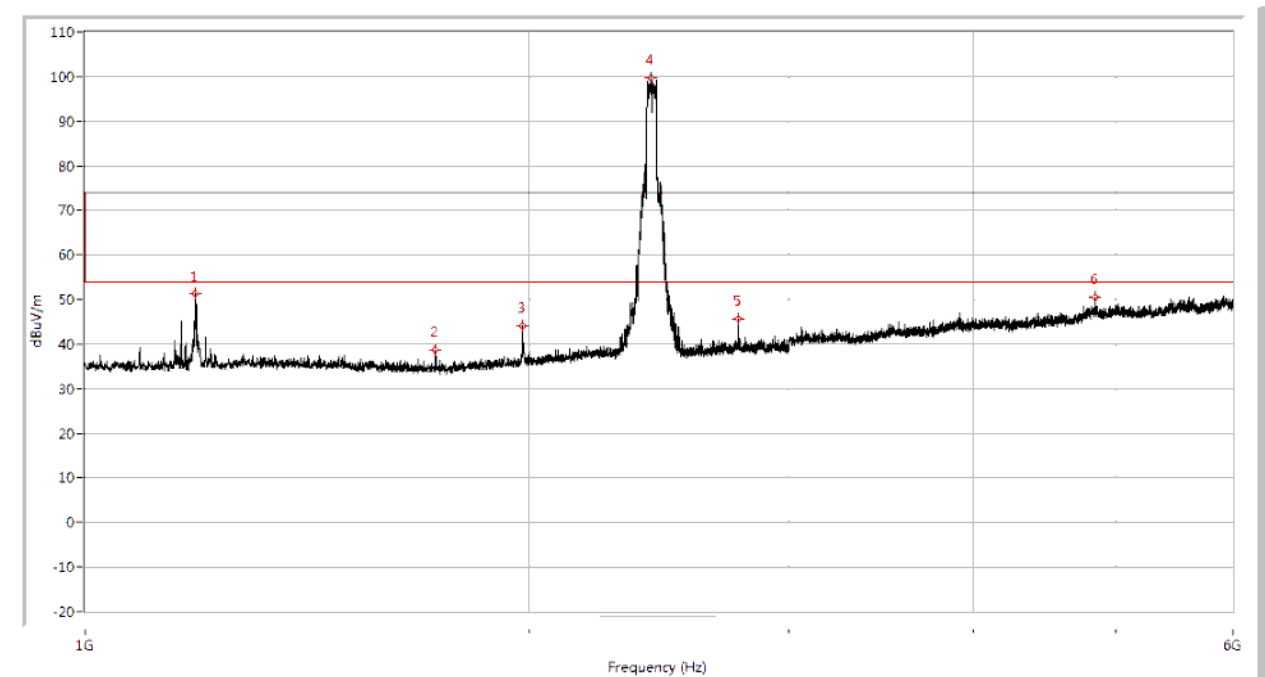
A.8.66, 802.11N-40MHZ LOW MODE 30MHz to 1GHz, ANT V



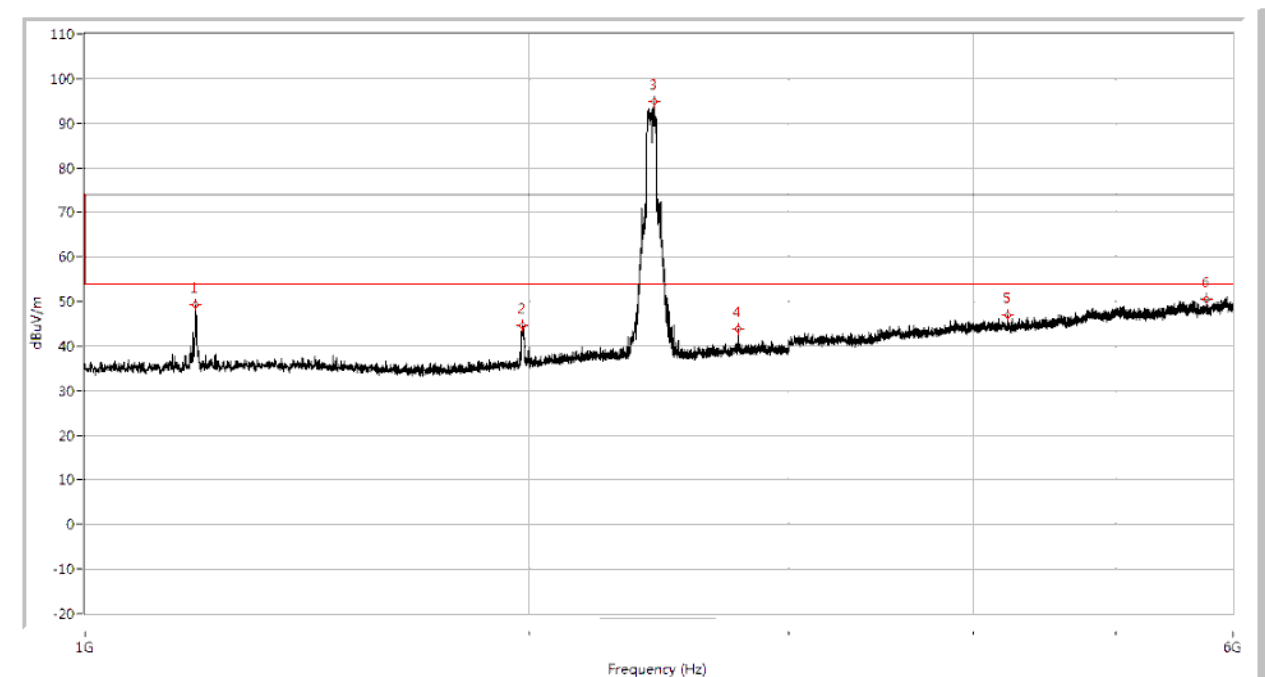
A.8.67, 802.11N-40MHZ LOW MODE 30MHz to 1GHz, ANT H



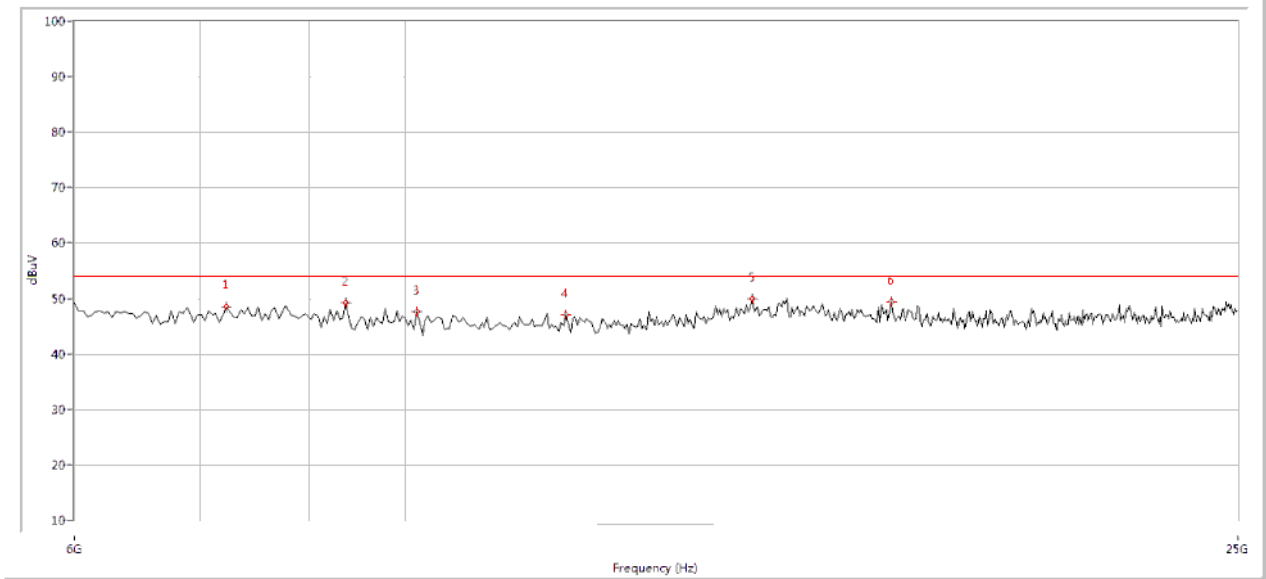
A.8.68, 802.11N-40MHZ LOW MODE 1GHz to 6GHz, ANT V



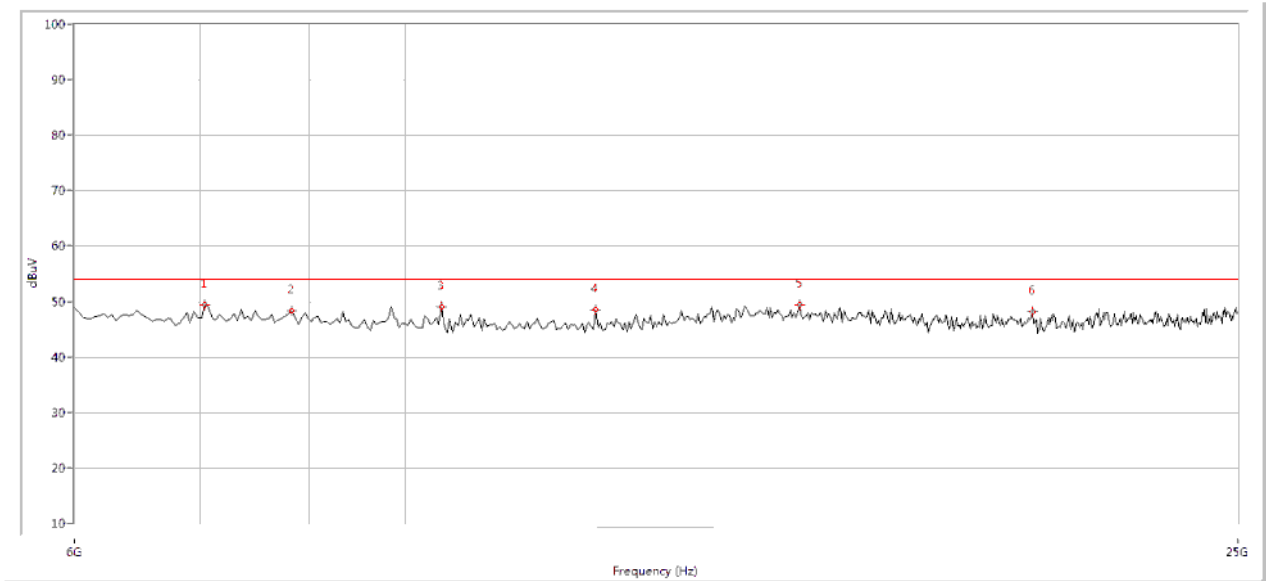
A.8.69, 802.11N-40MHZ LOW MODE 1GHz to 6GHz, ANT H



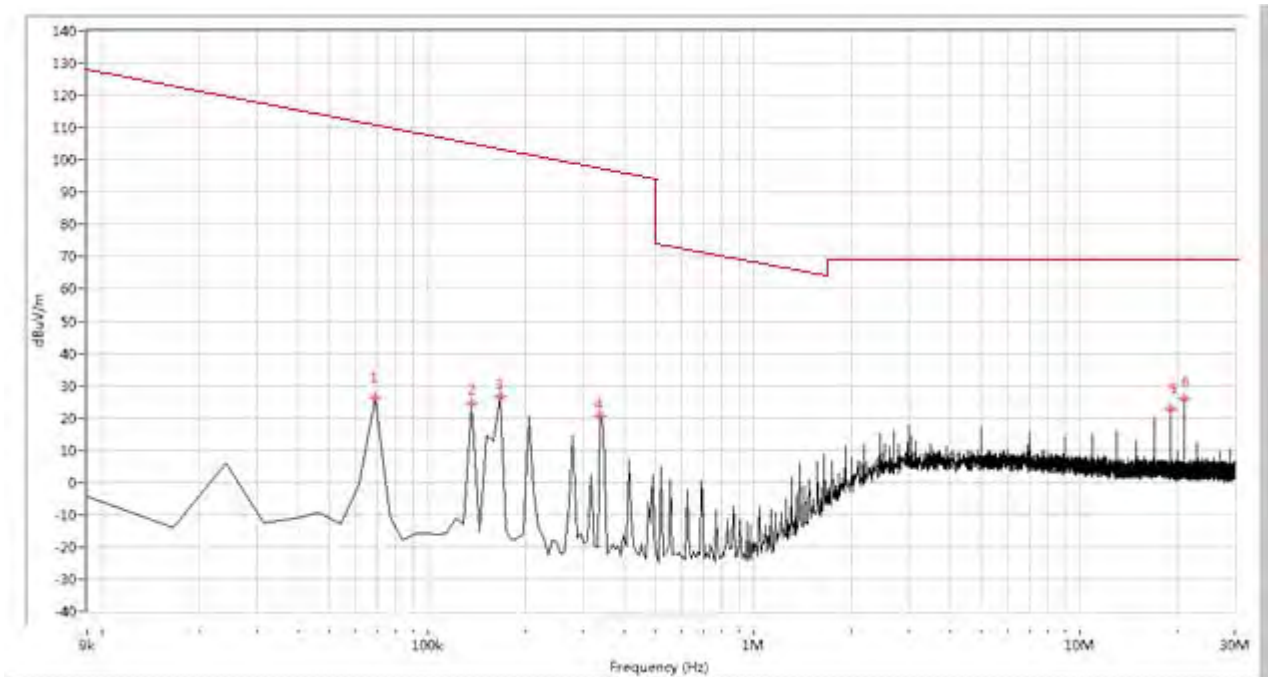
A.8.70, 802.11N-40MHZ LOW MODE 6GHz to 25GHz, ANT V



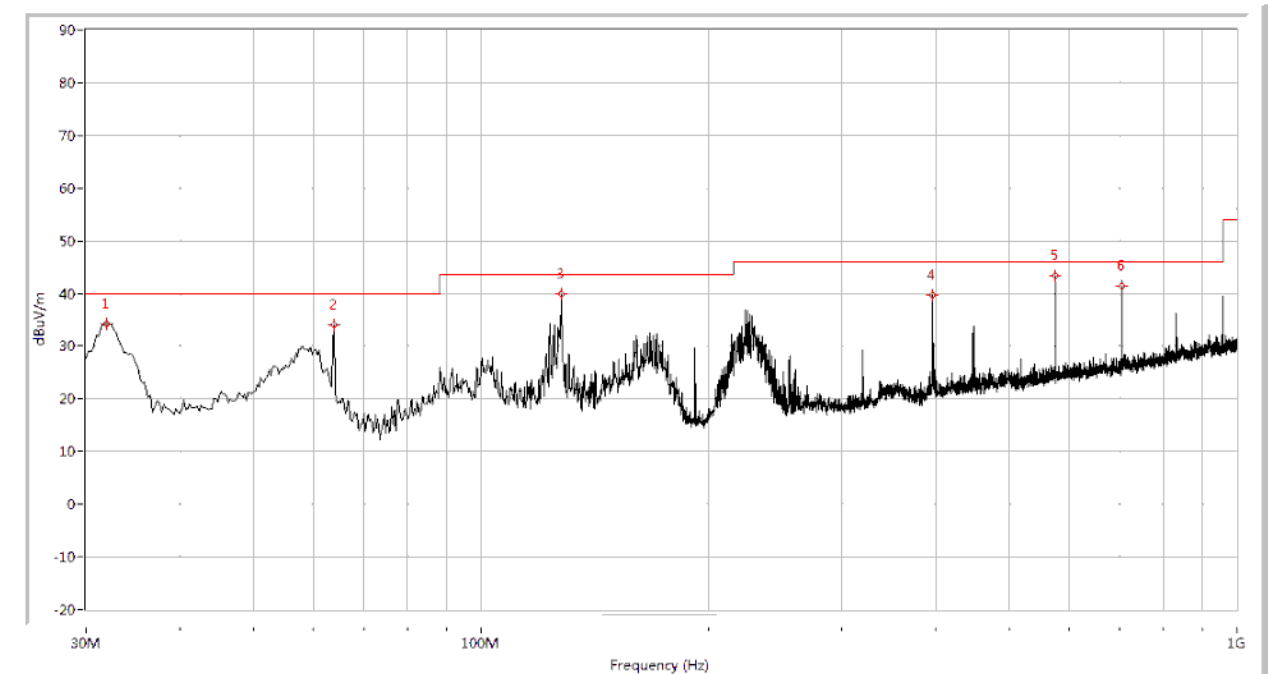
A.8.71, 802.11N-40MHZ LOW MODE 6GHz to 25GHz, ANT H



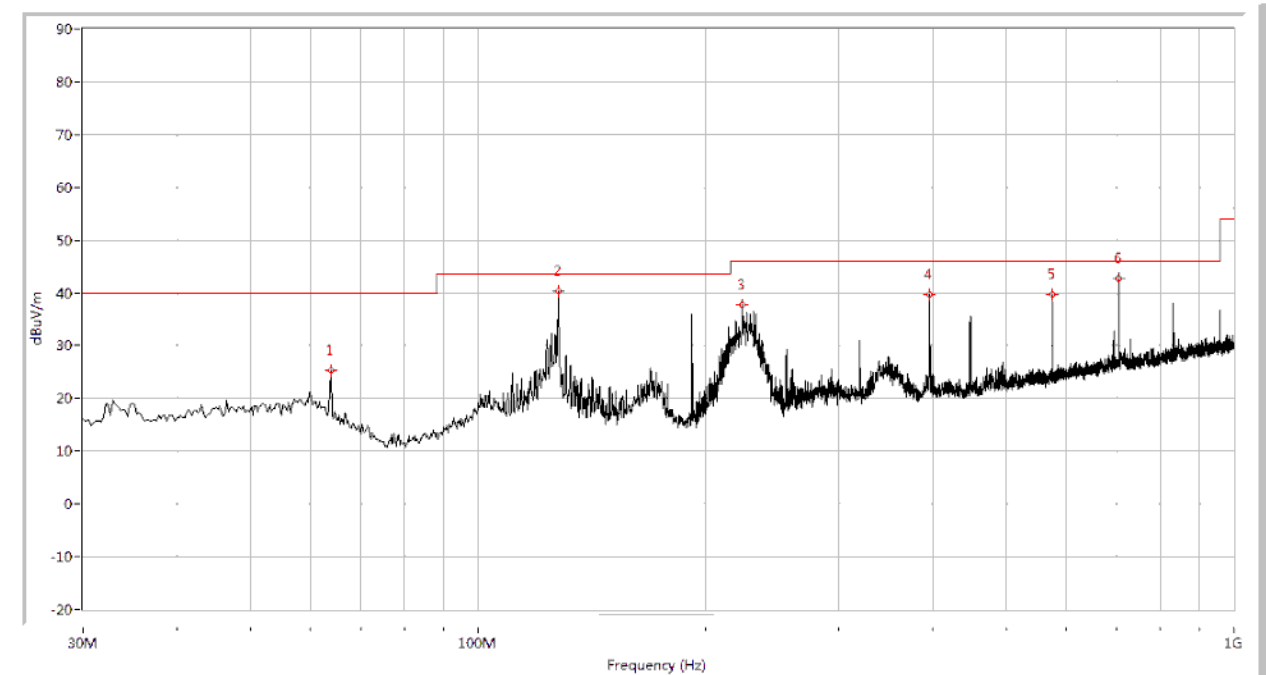
A.8.72, 802.11n-40MHz MID MODE Below 30MHz



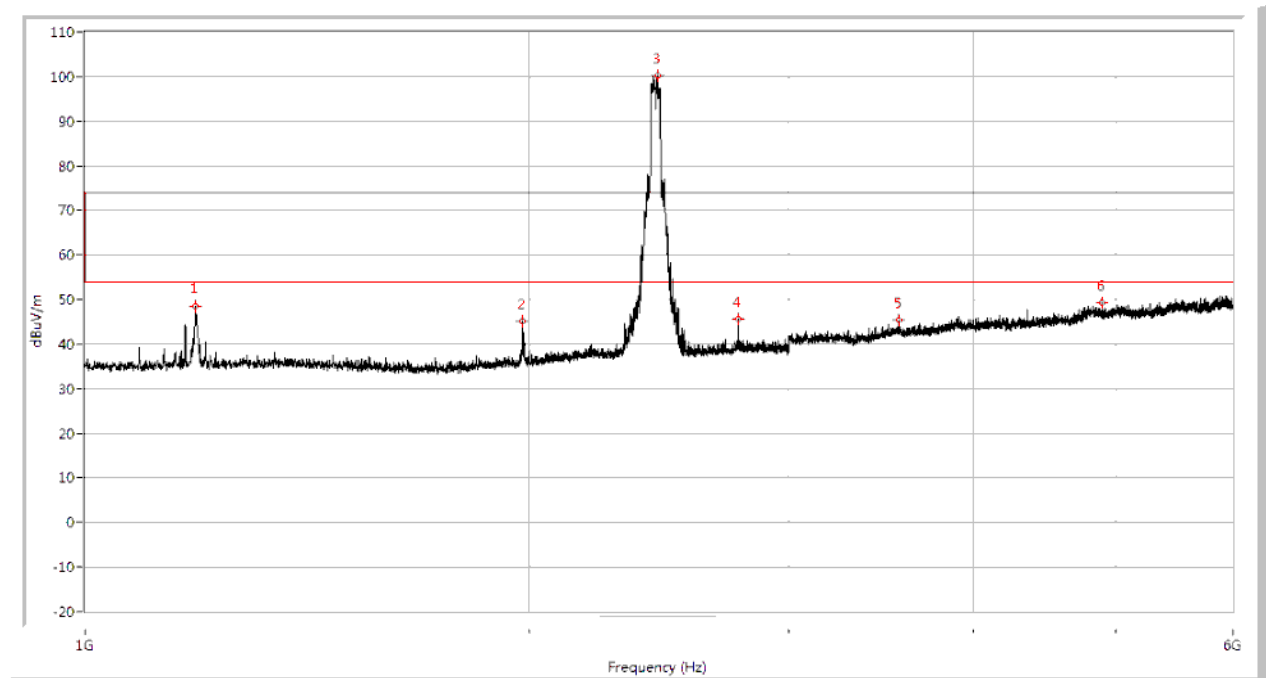
A.8.73, 802.11N-40MHZ MID MODE 30MHz to 1GHz, ANT V



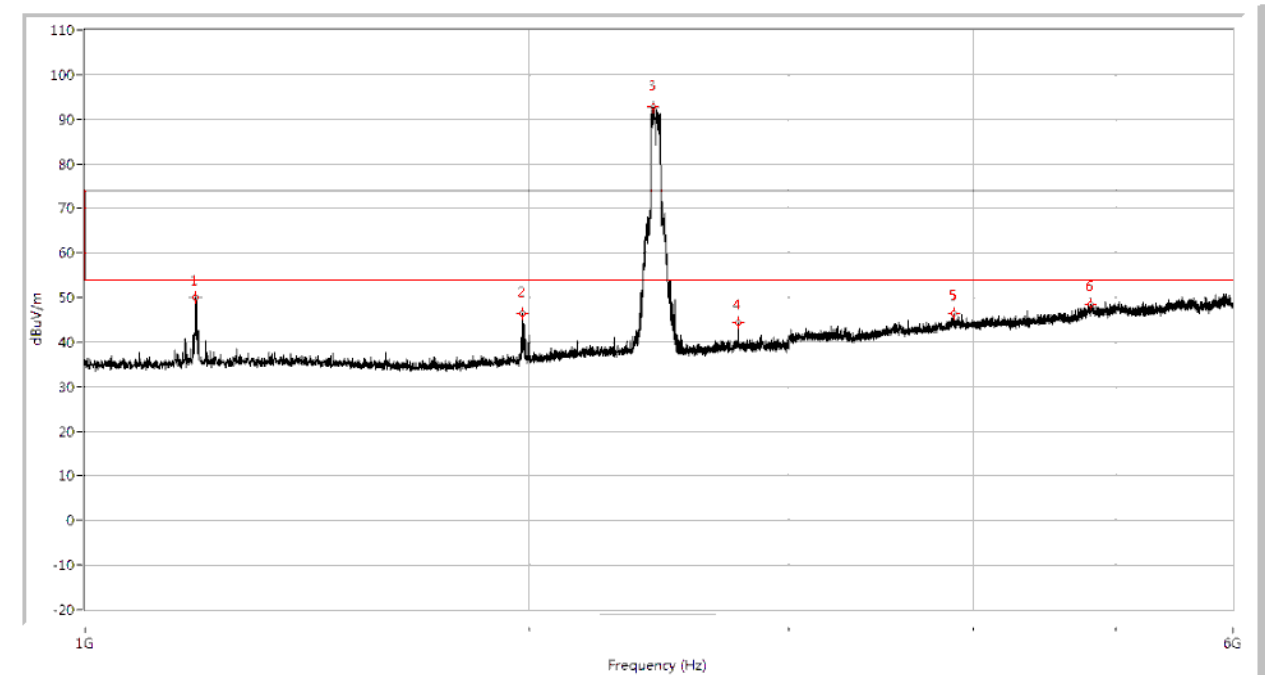
A.8.74, 802.11N-40MHZ MID MODE 30MHz to 1GHz, ANT H



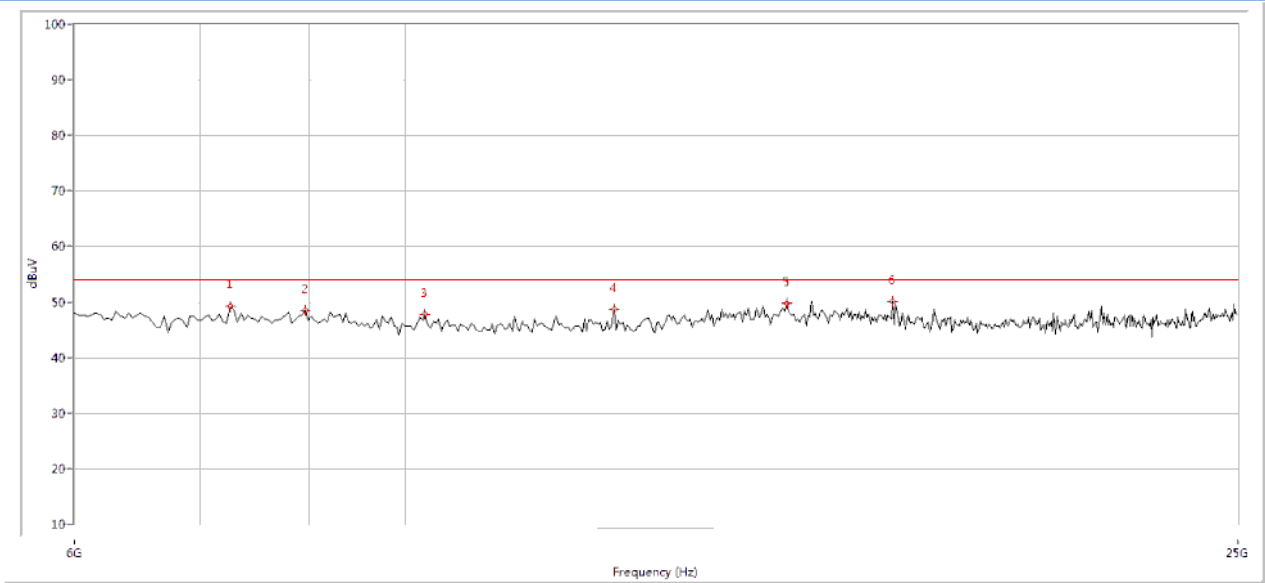
A.8.75, 802.11N-40MHZ MID MODE 1GHz to 6GHz, ANT V



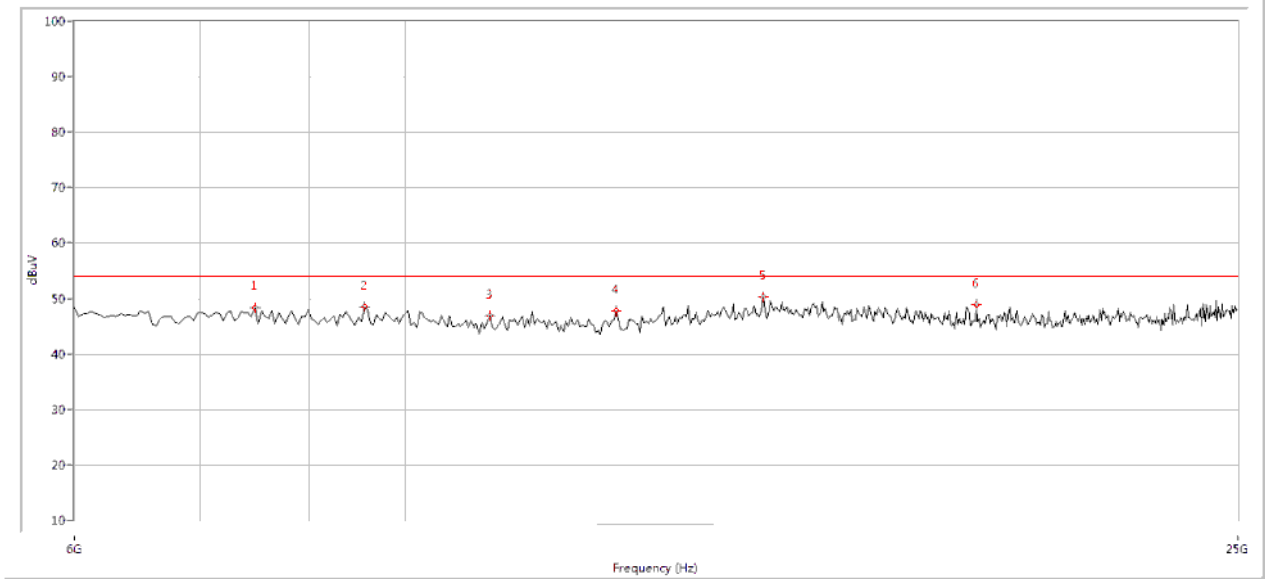
A.8.76, 802.11N-40MHZ MID MODE 1GHz to 6GHz, ANT H



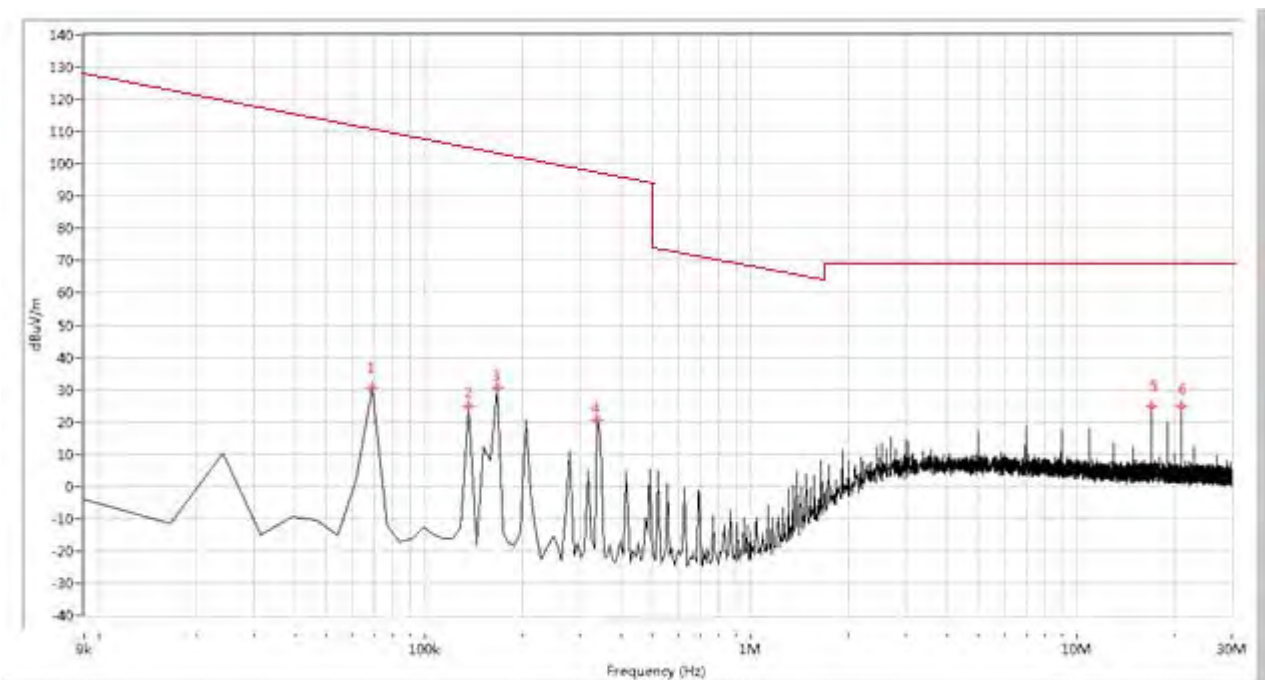
A.8.77, 802.11N-40MHZ MID MODE 6GHz to 25GHz, ANT V



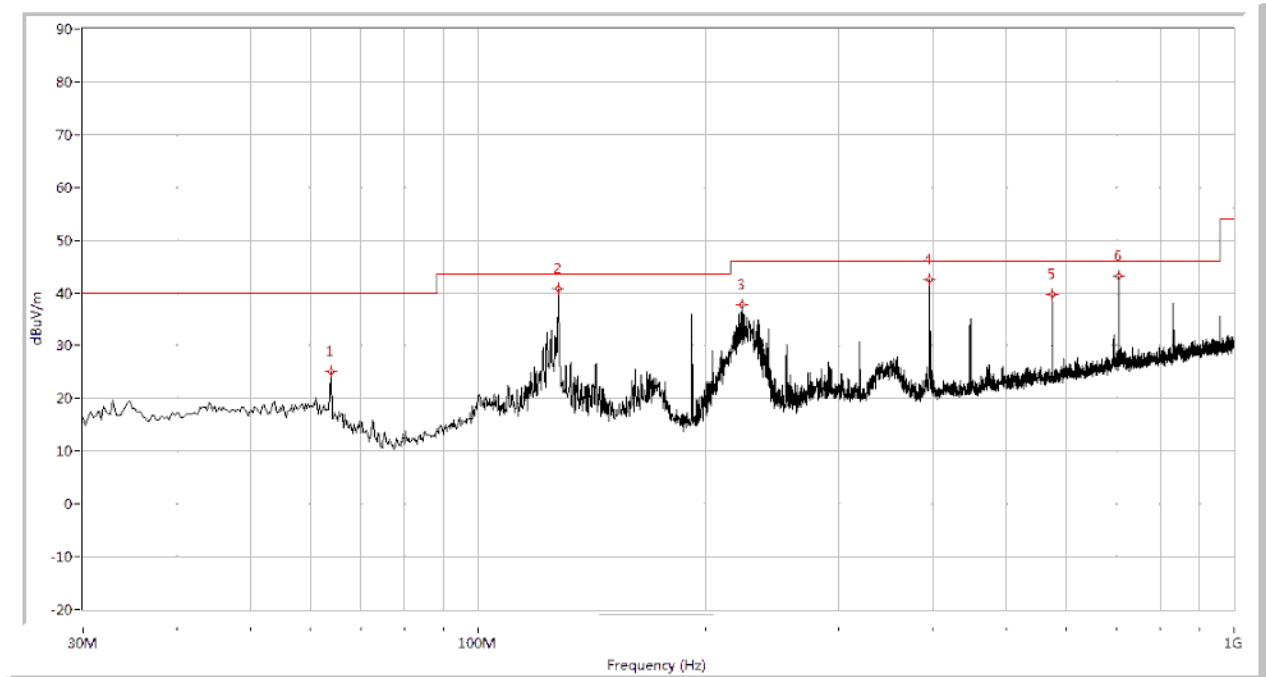
A.8.78, 802.11N-40MHZ MID MODE 6GHz to 25GHz, ANT H



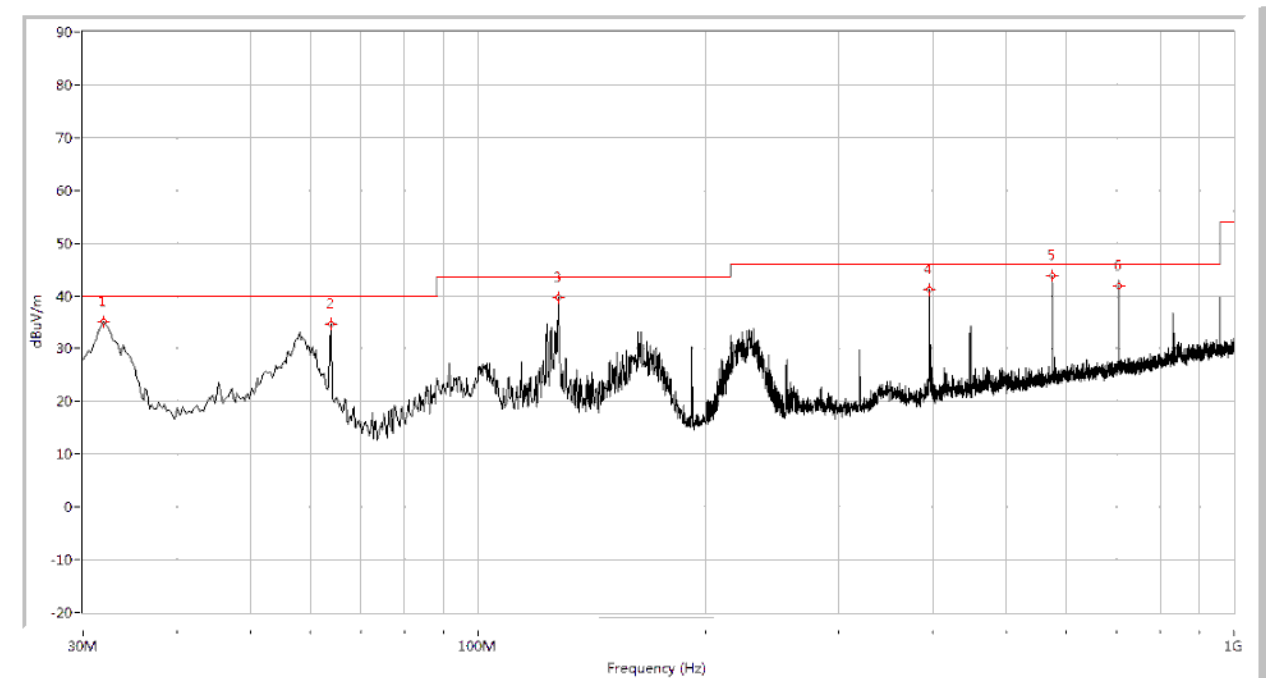
A.8.79, 802.11n-40MHz HIGH MODE Below 30MHz



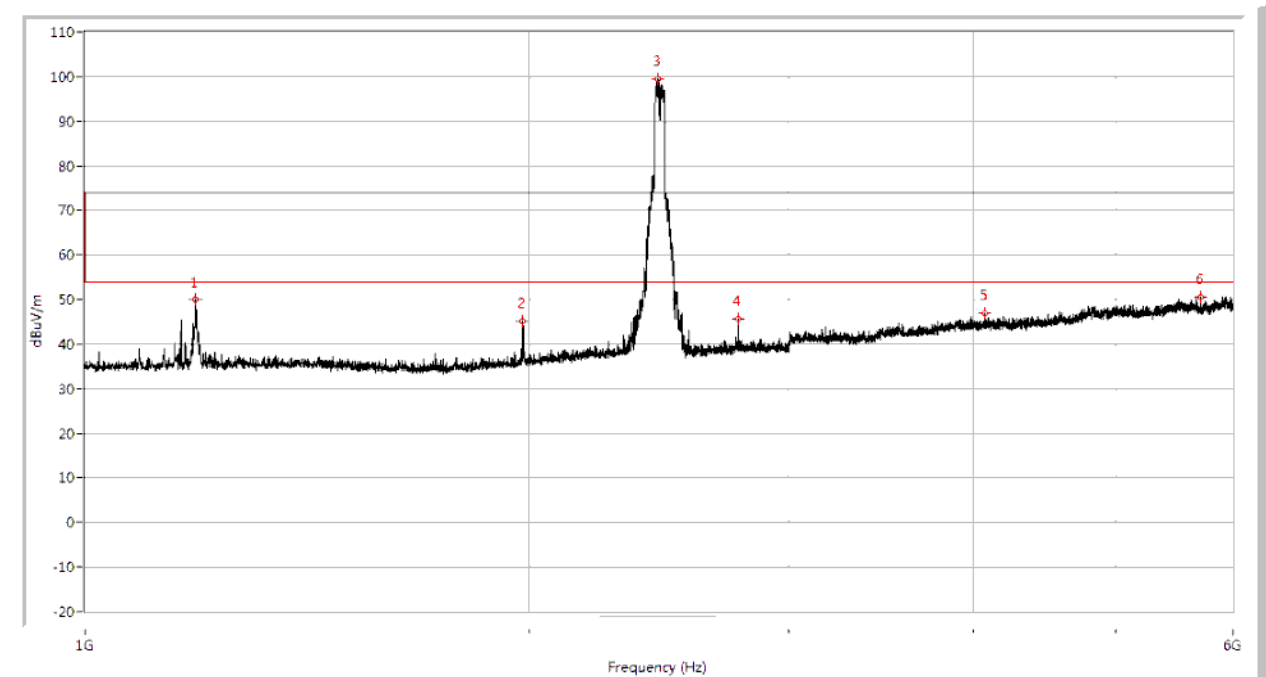
A.8.80, 802.11N-40MHZ HIGH MODE 30MHz to 1GHz, ANT V



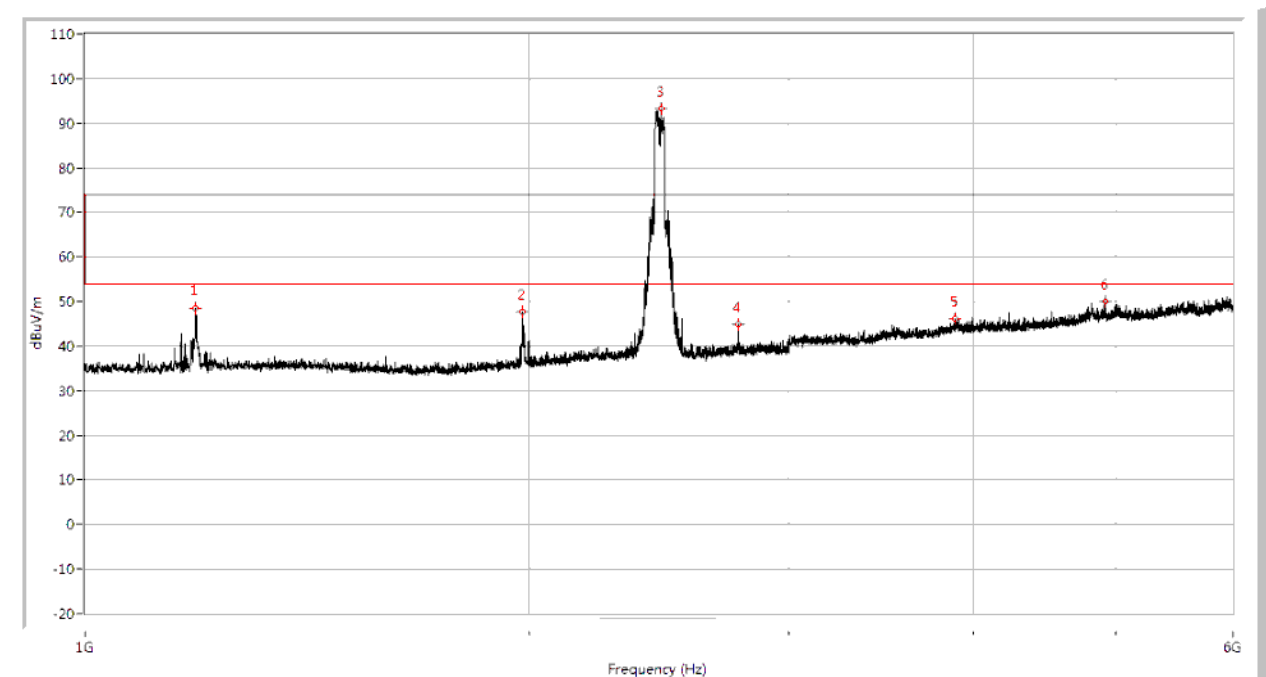
A.8.81, 802.11N-40MHZ HIGH MODE 30MHz to 1GHz, ANT H



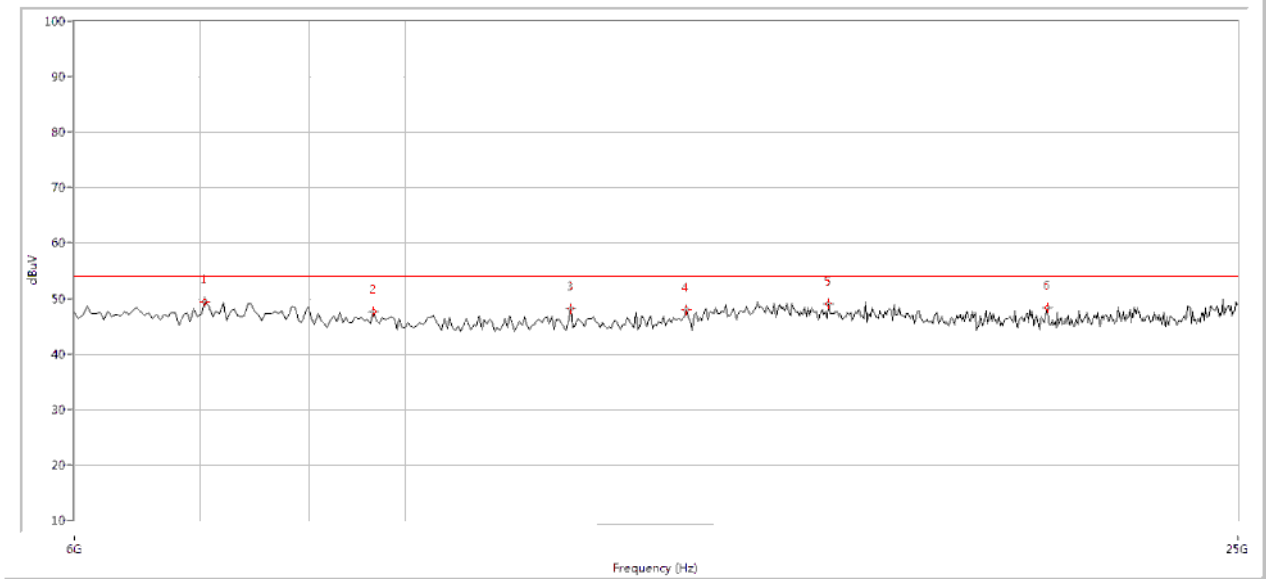
A.8.82, 802.11N-40MHZ HIGH MODE 1GHz to 6GHz, ANT V



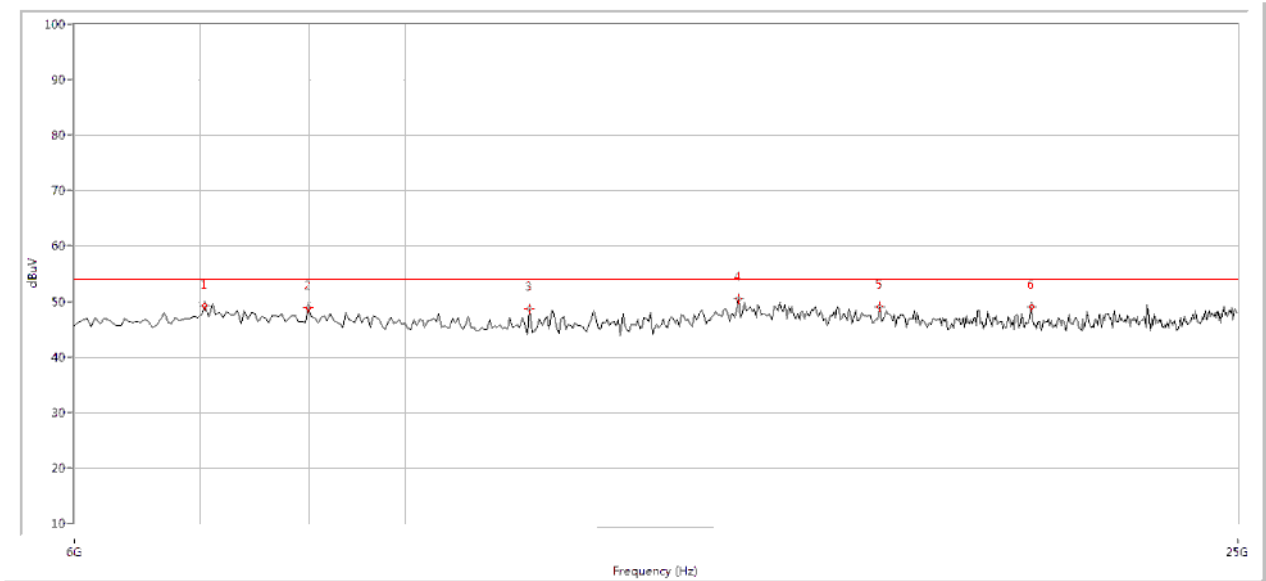
A.8.83, 802.11N-40MHZ HIGH MODE 1GHz to 6GHz, ANT H



A.8.84, 802.11N-40MHZ HIGH MODE 6GHz to 25GHz, ANT V



A.8.85, 802.11N-40MHZ HIGH MODE 6GHz to 25GHz, ANT H



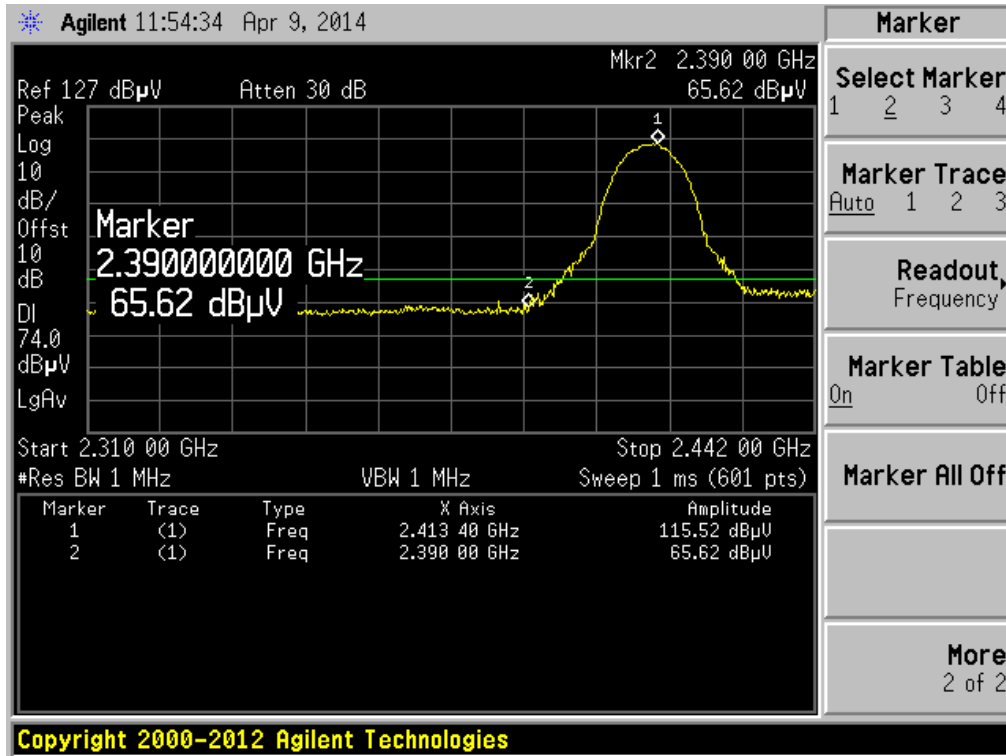
A.6 Band Edge

Test Data

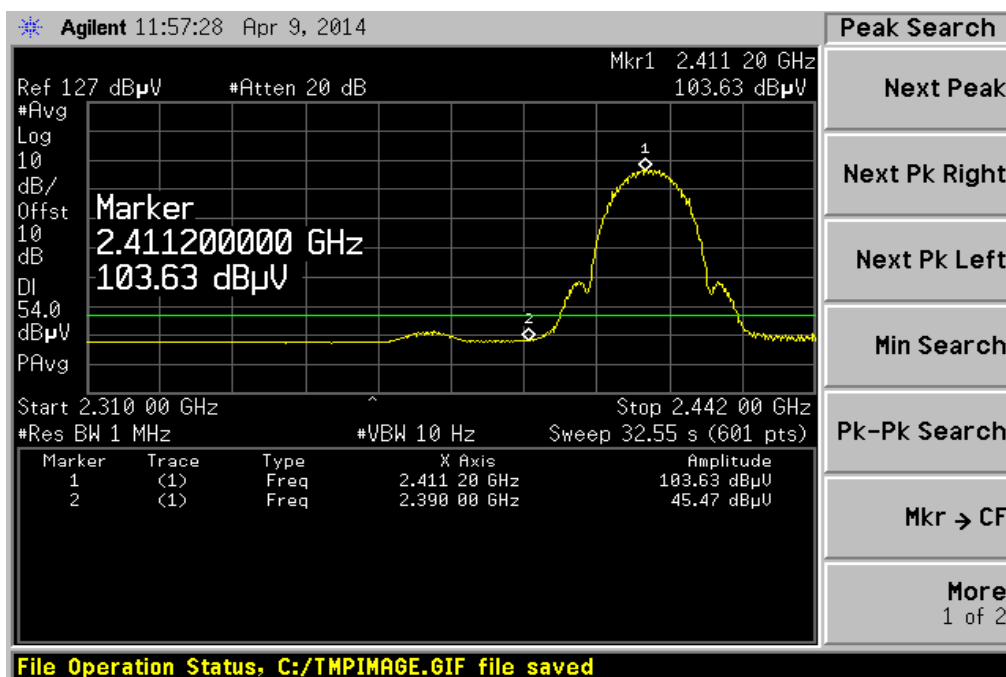
The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Test Plots

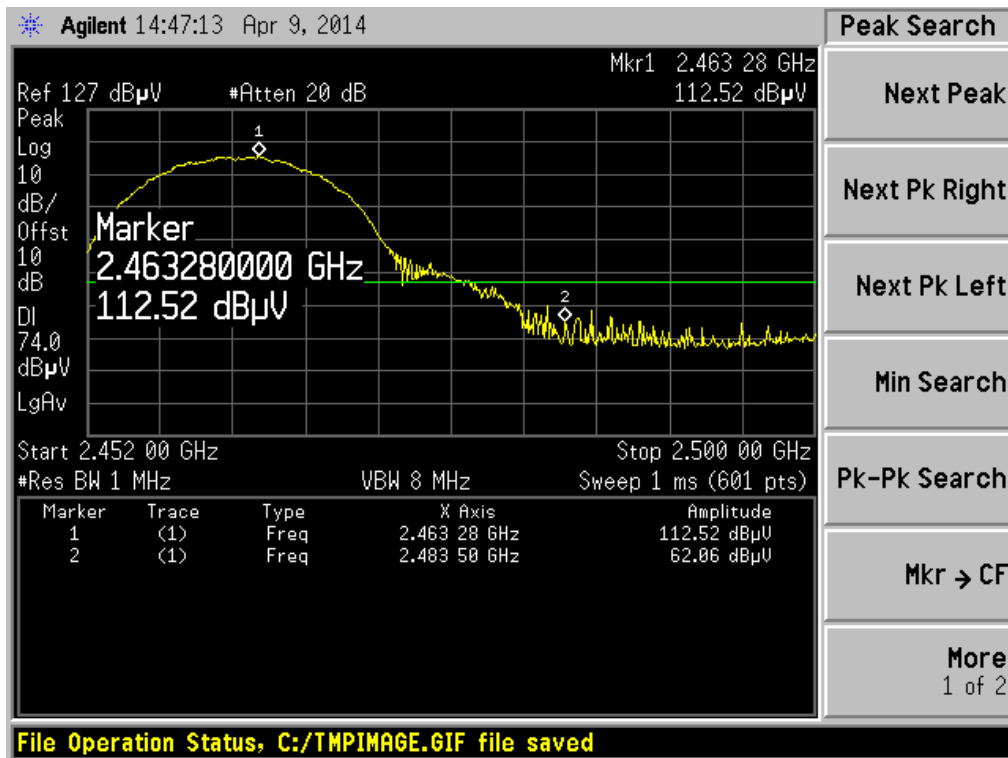
A.6.1, 802.11b LOW CHANNEL , PEAK



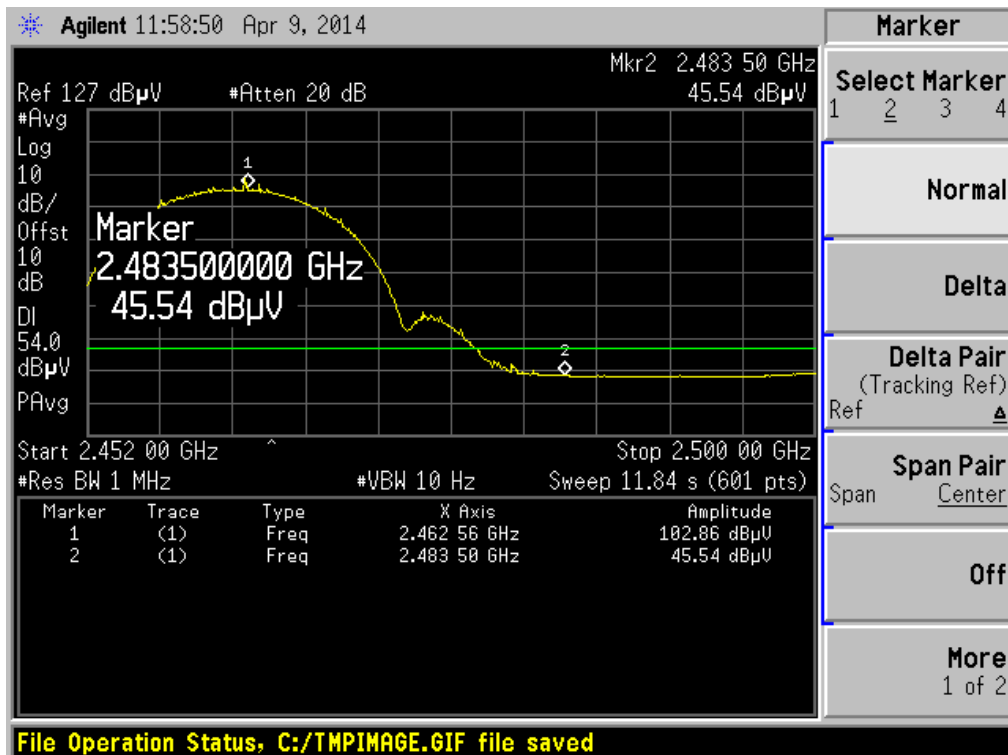
A.6.2, 802.11b LOW CHANNEL , AVERAGE



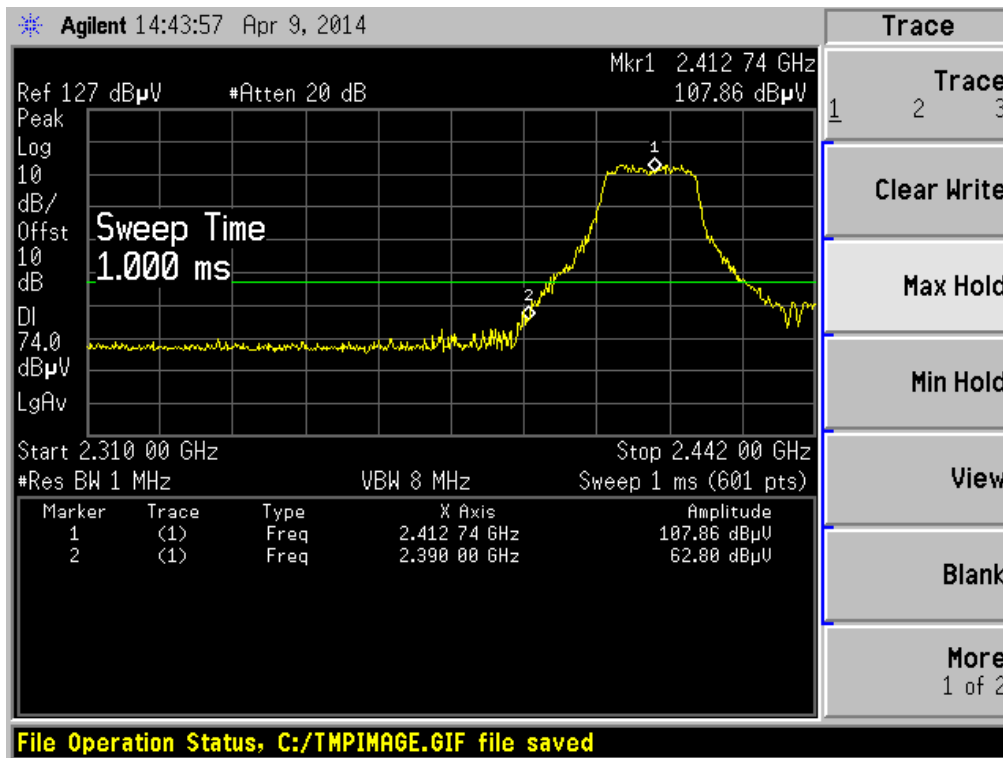
A.6.3, 802.11b HIGH CHANNEL , PEAK



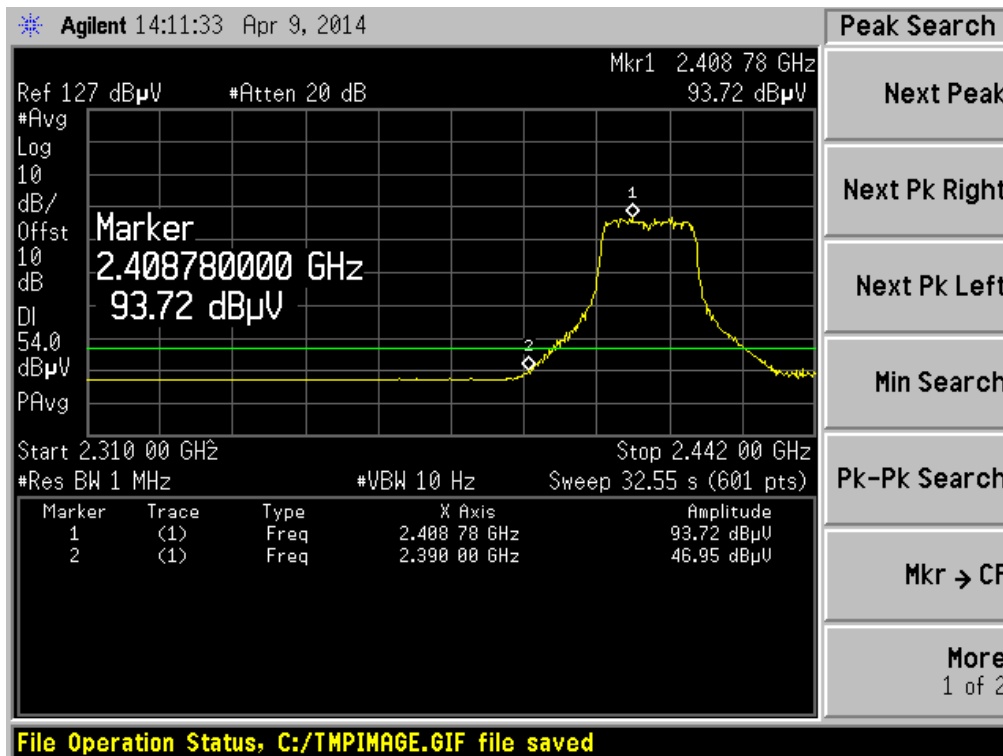
A.6.4, 802.11b HIGH CHANNEL , AVERAGE



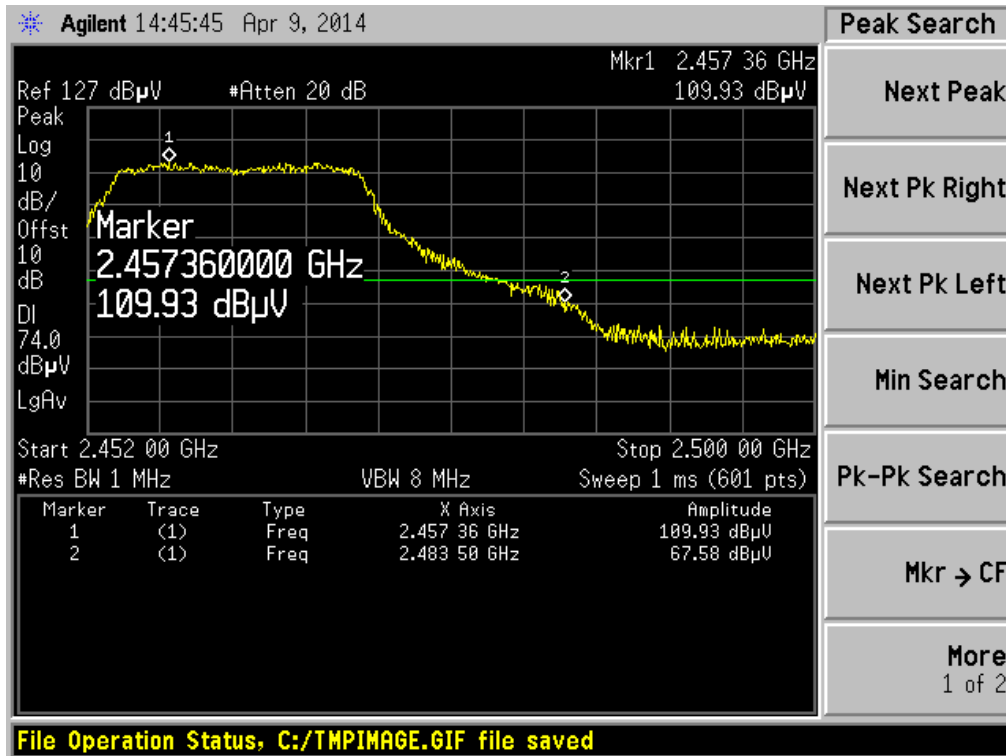
A.6.5, 802.11g LOW CHANNEL , PEAK



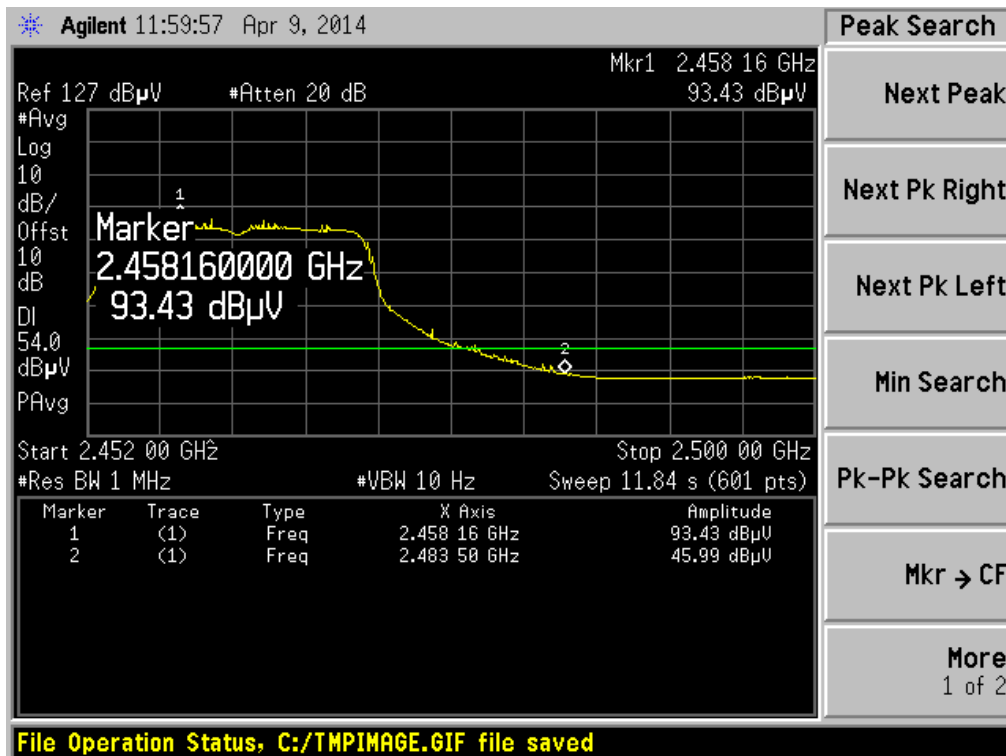
A.6.6, 802.11g LOW CHANNEL , AVERAGE



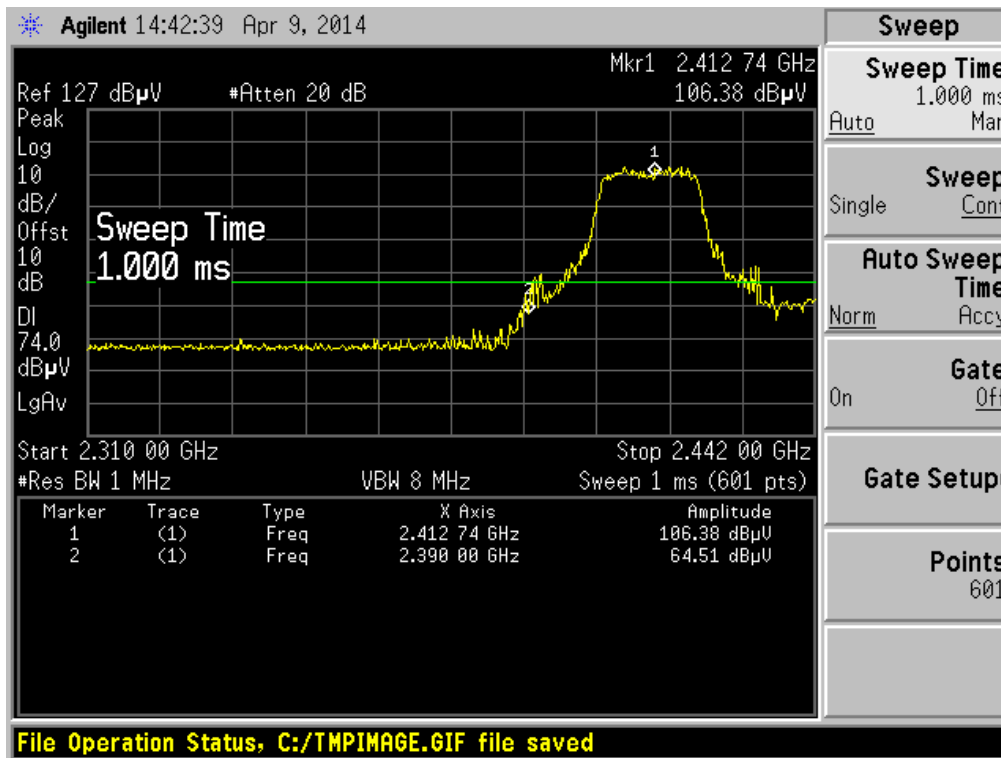
A.6.7, 802.11g HIGH CHANNEL , PEAK



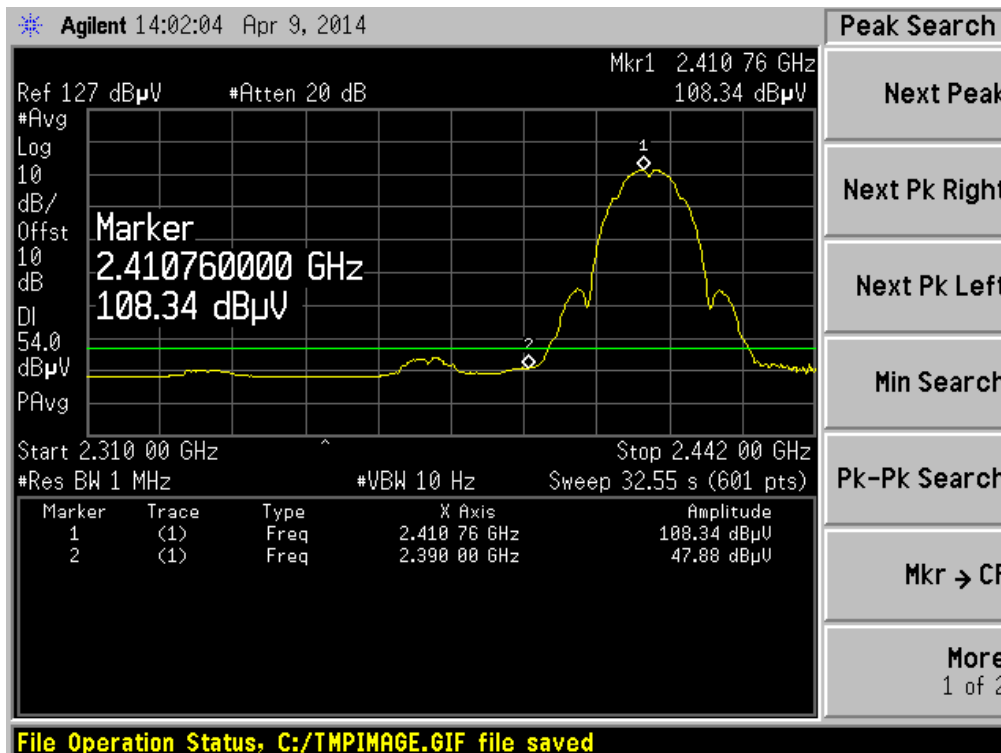
A.6.8, 802.11g HIGH CHANNEL , AVERAGE



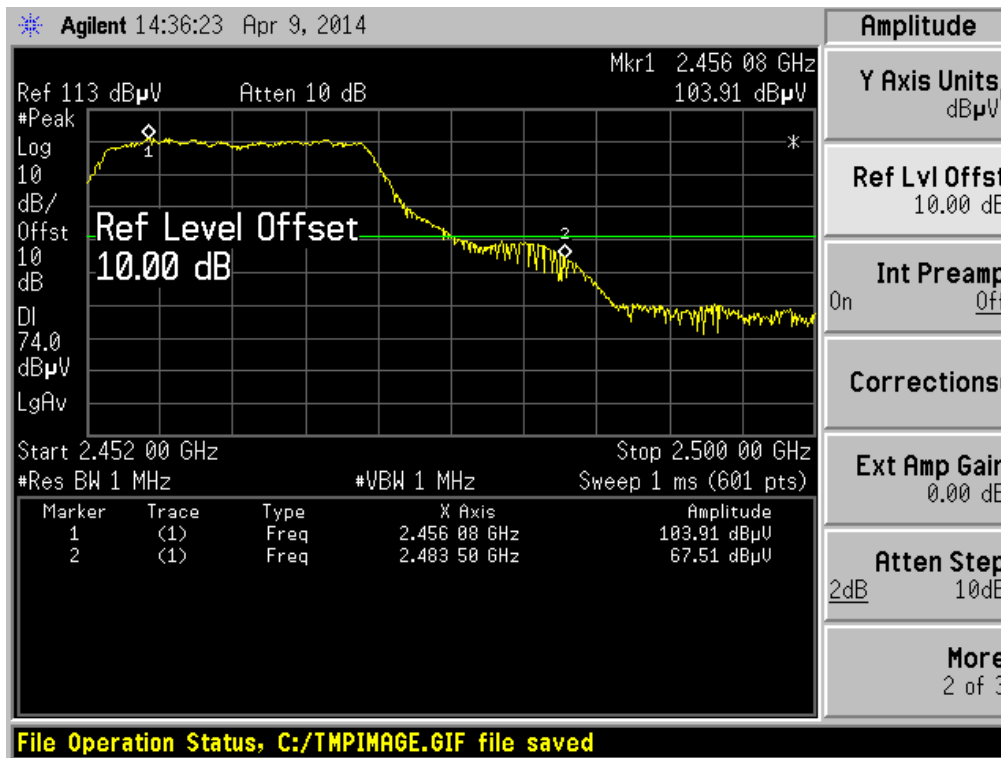
A.6.9, 802.11n-20MHz LOW CHANNEL ,PEAK



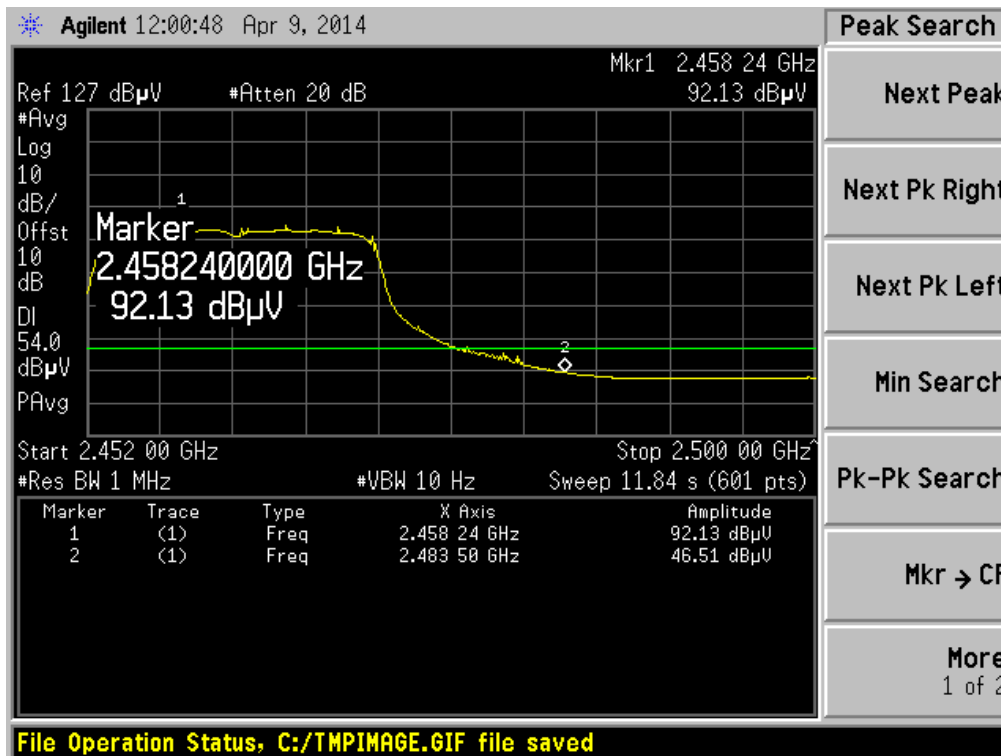
A.6.10, 802.11n-20MHz LOW CHANNEL , AVERAGE



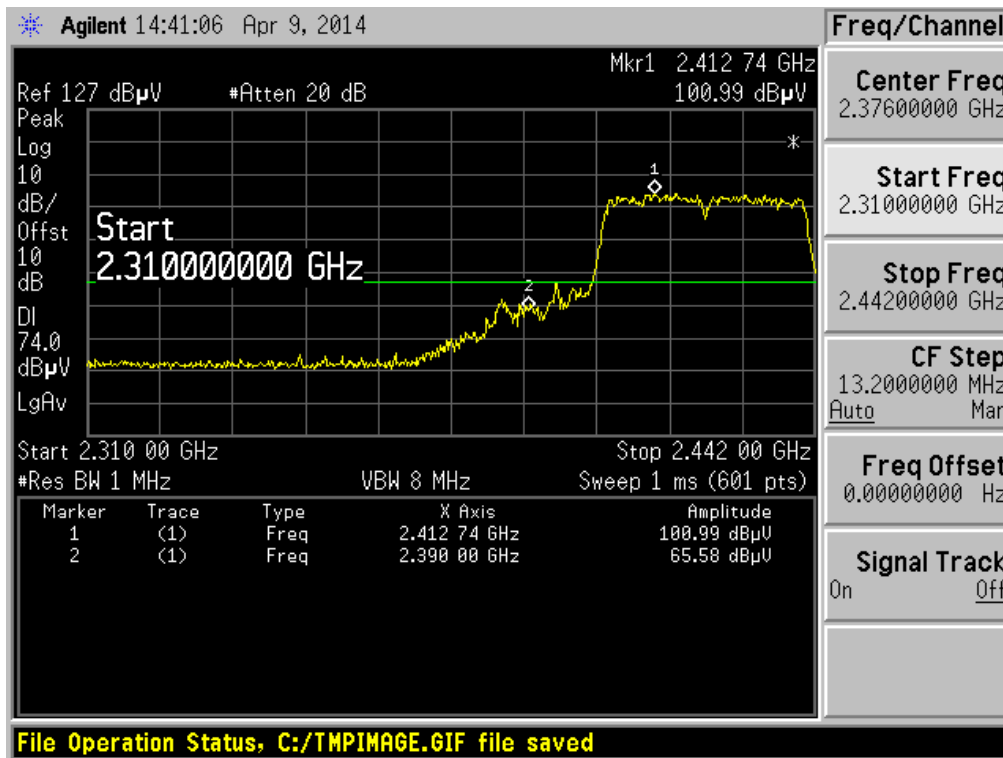
A.6.11, 802.11n-20MHz HIGH CHANNEL , PEAK



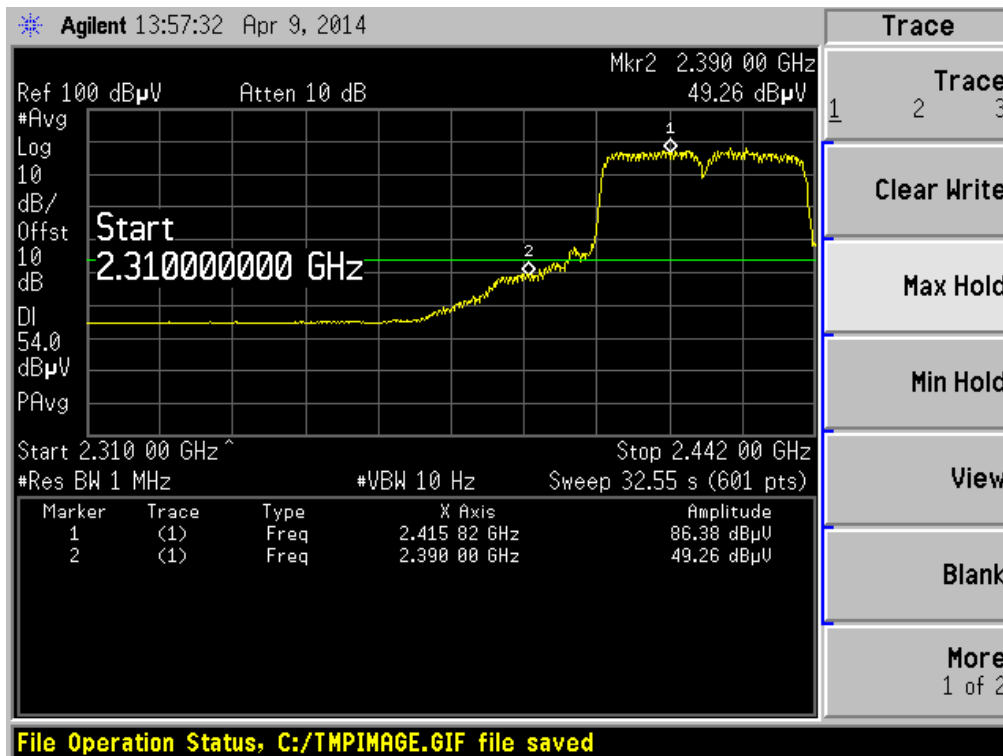
A.6.12, 802.11n-20MHz HIGH CHANNEL , AVERAGE



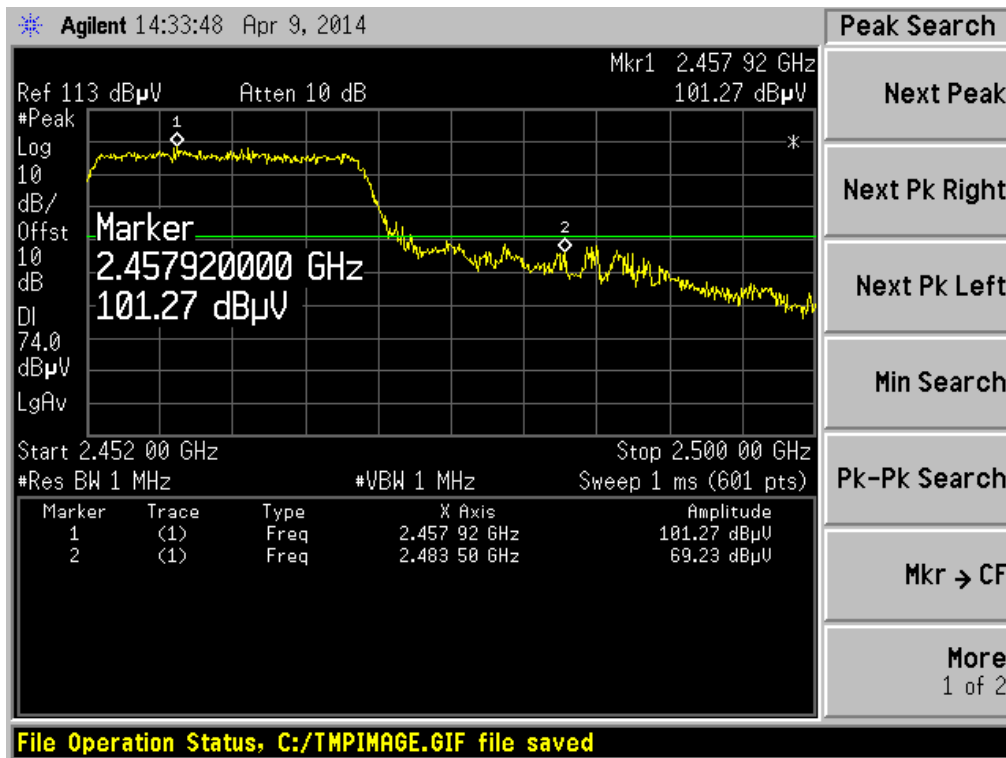
A.6.13, 802.11n-40MHz LOW CHANNEL , PEAK



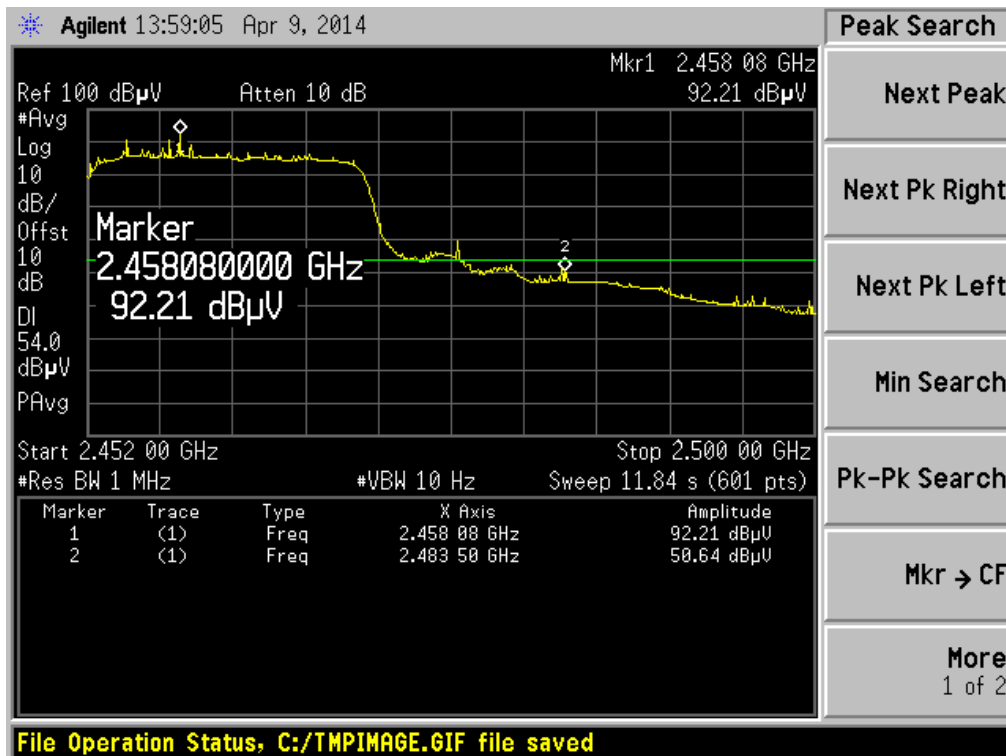
A.6.14, 802.11n-40MHz LOW CHANNEL , AVERAGE



A.6.15, 802.11n-40MHz HIGH CHANNEL , PEAK



A.6.16, 802.11n-40MHz HIGH CHANNEL , AVERAGE



A.7 Power Spectral Density (PSD)

Test Data

802.11b Mode:

Channel	Frequency (MHz)	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-1.91	8
Middle	2437	-13.77	8
High	2462	-5.17	8

802.11g Mode:

Channel	Frequency (MHz)	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-17.82	8
Middle	2437	-18.80	8
High	2462	-18.68	8

802.11n-20MHz Mode:

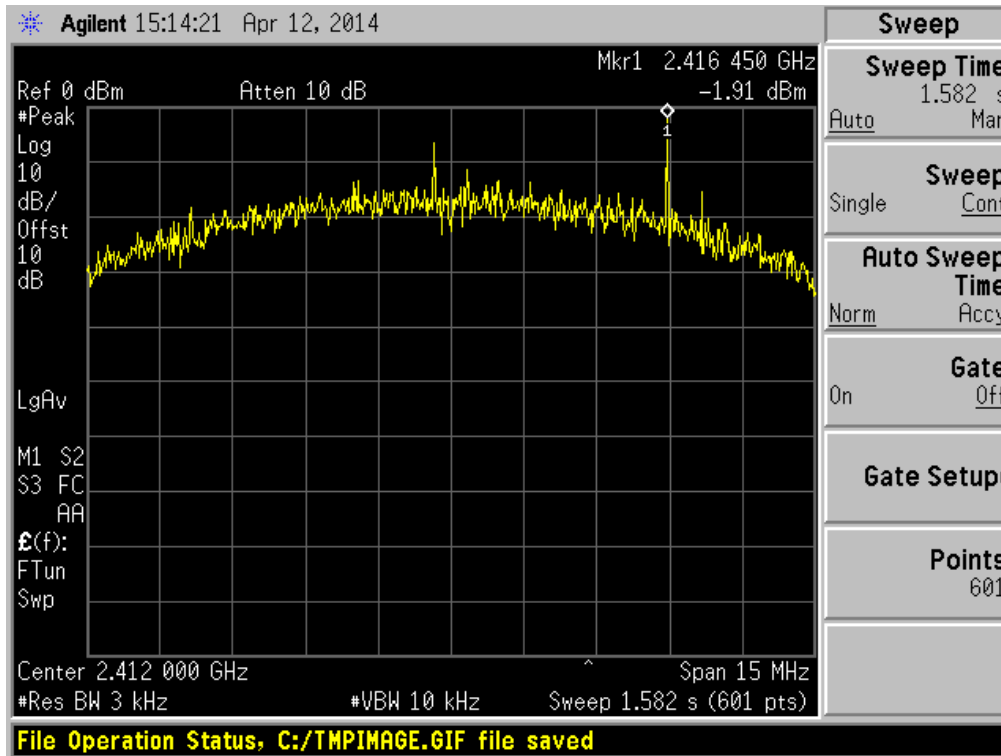
Channel	Frequency (MHz)	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2412	-18.30	8
Middle	2437	-19.17	8
High	2462	-19.96	8

802.11n-40MHz Mode:

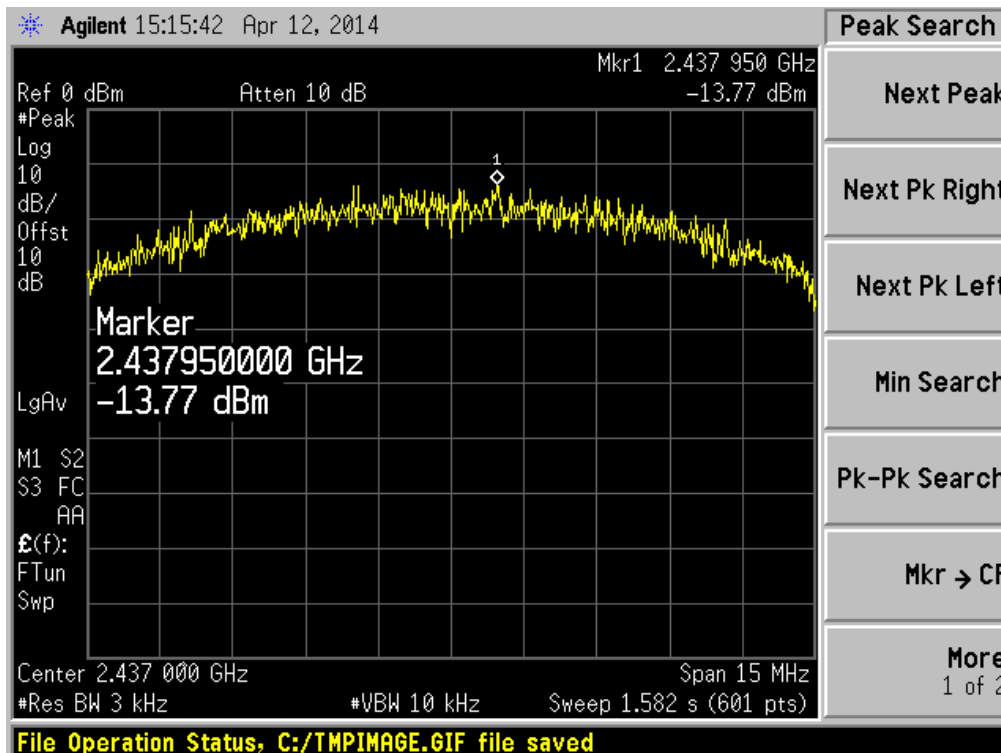
Channel	Frequency (MHz)	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	2422	-18.58	8
Middle	2437	-20.52	8
High	2452	-21.65	8

Test plots

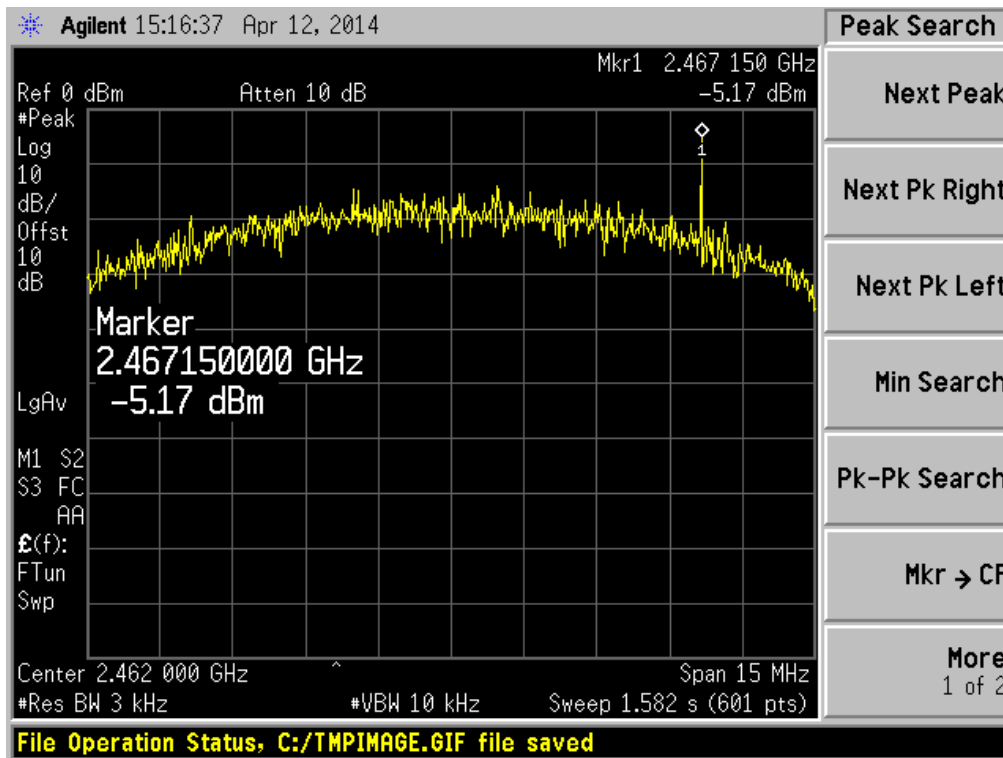
A.1.1, 802.11b LOW CHANNEL



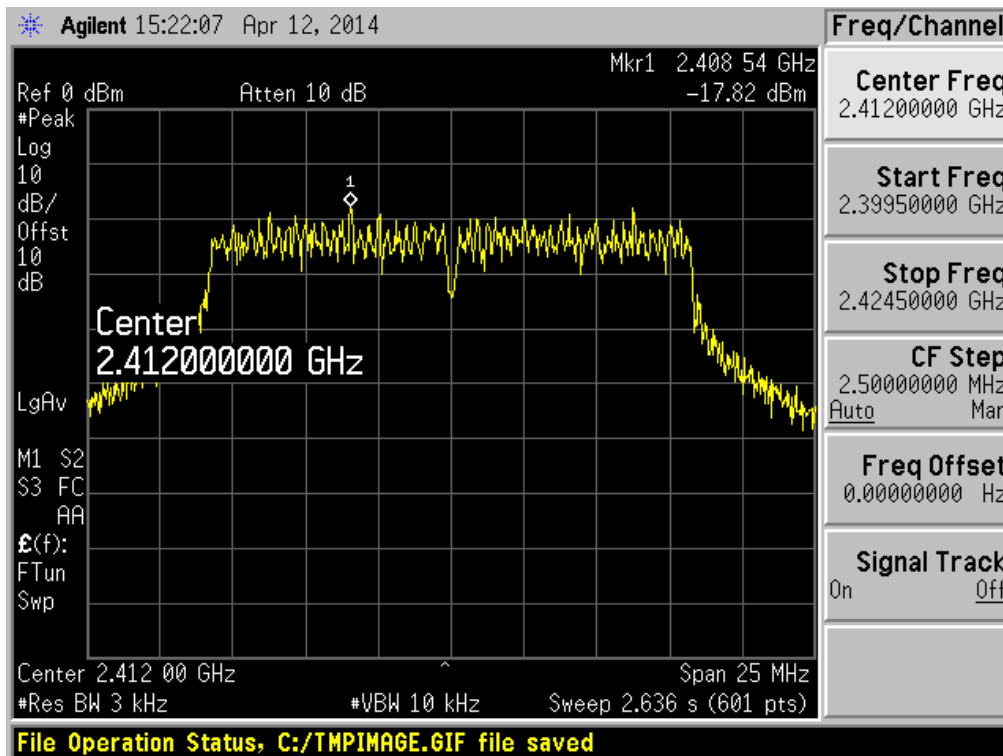
A.1.2, 802.11b MID CHANAEL



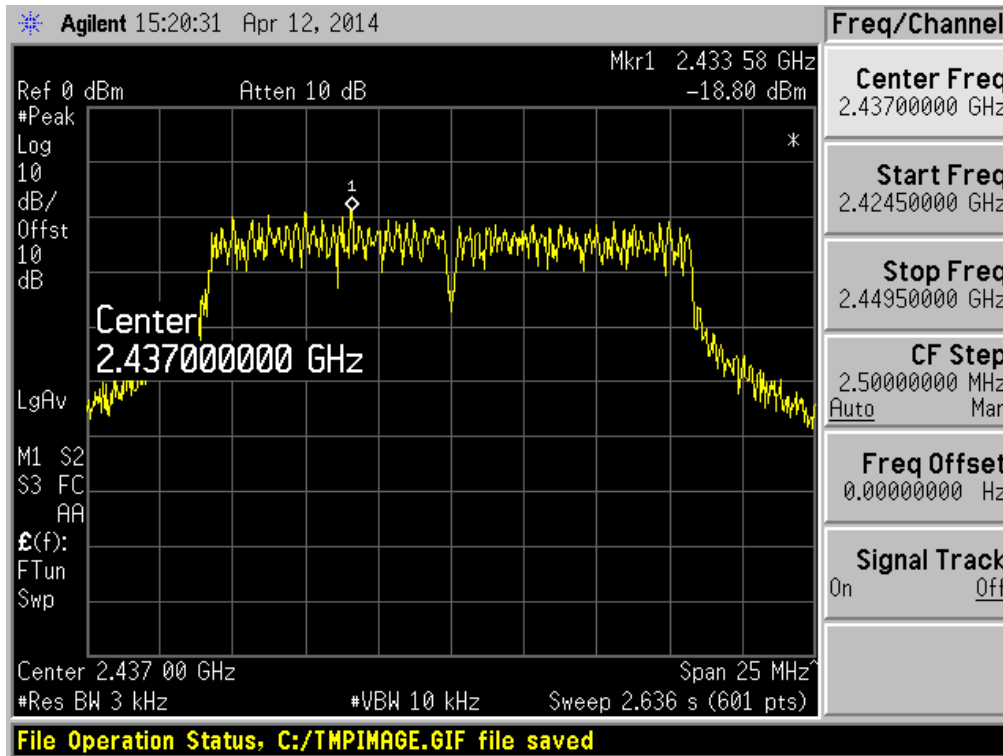
A.1.3, 802.11b HIGH CHANNEL



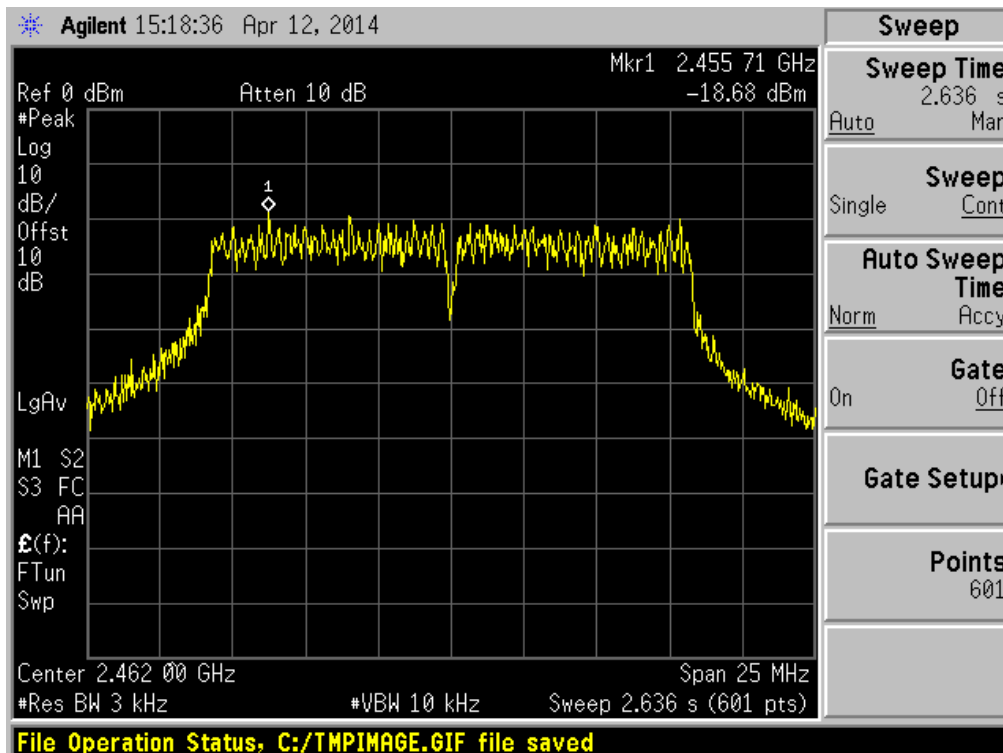
A.1.4, 802.11g LOW CHANNEL



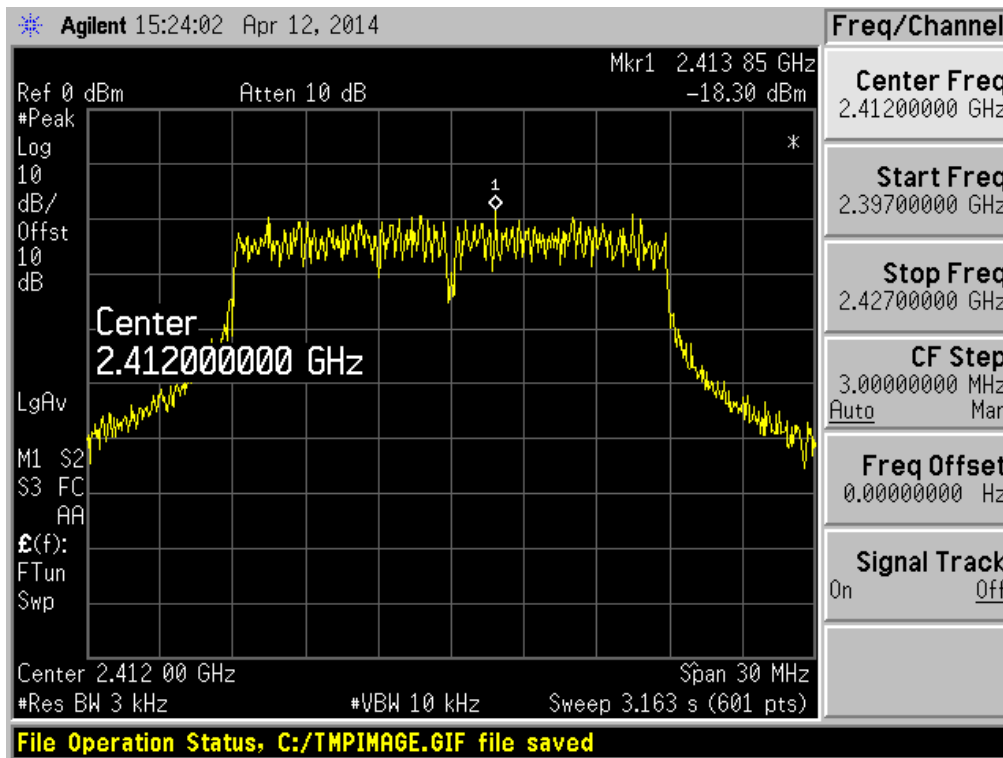
A.1.5, 802.11g MID CHANAEL



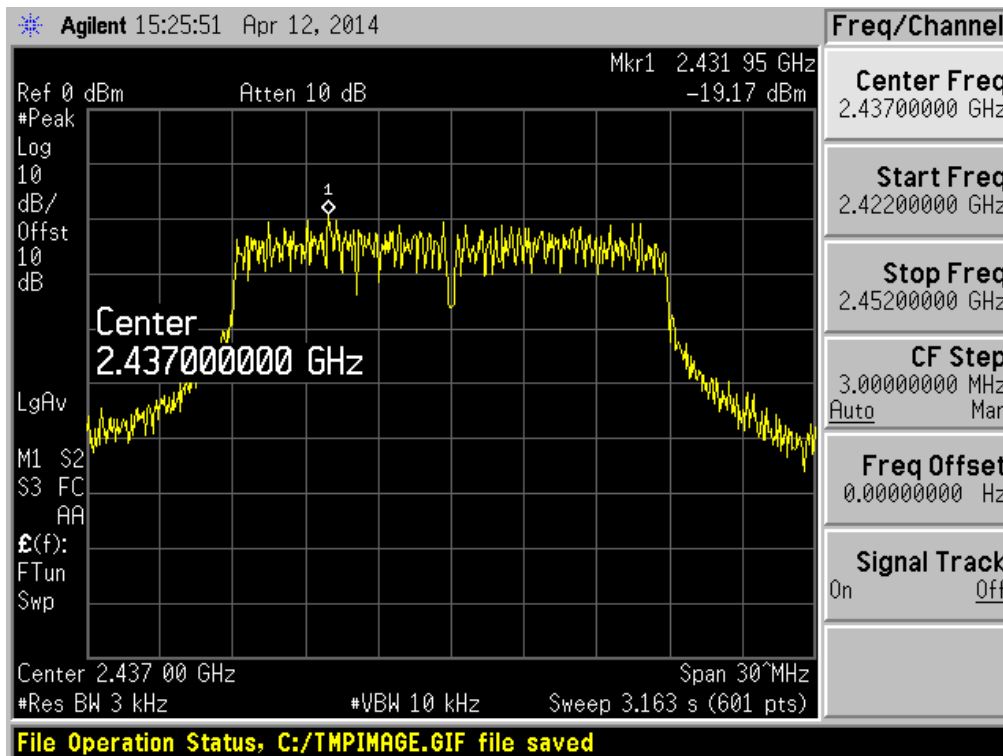
A.1.6, 802.11g HIGH CHANNEL



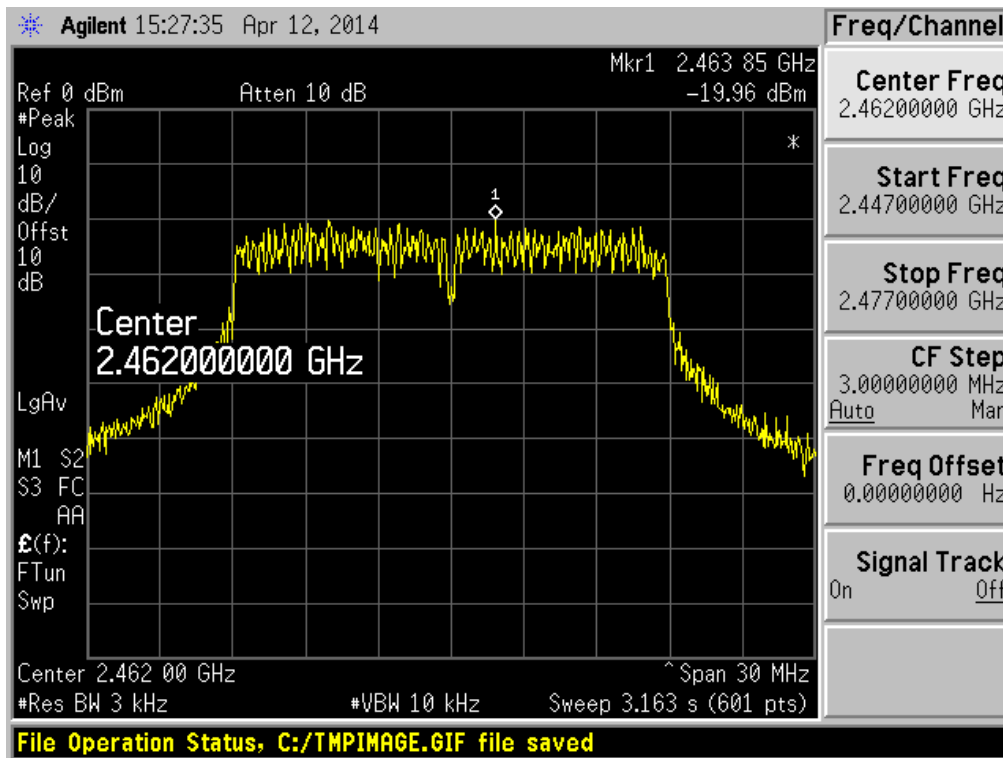
A.1.7, 802.11n-20MHz LOW CHANNEL



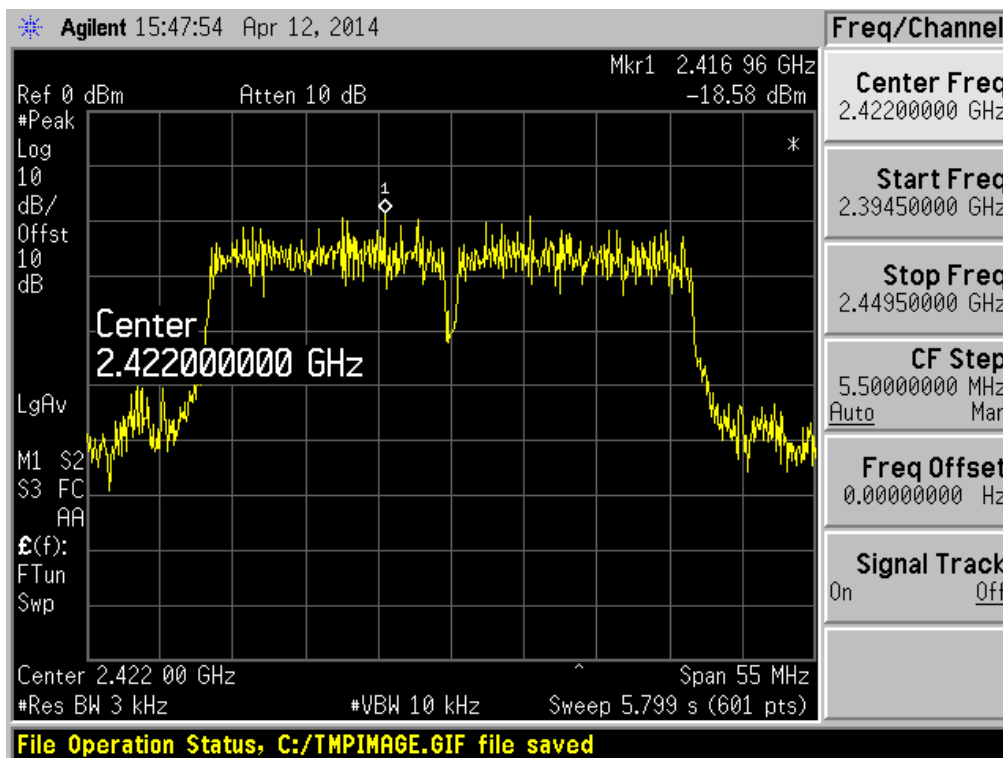
A.1.8, 802.11n-20MHz MID CHANAEL



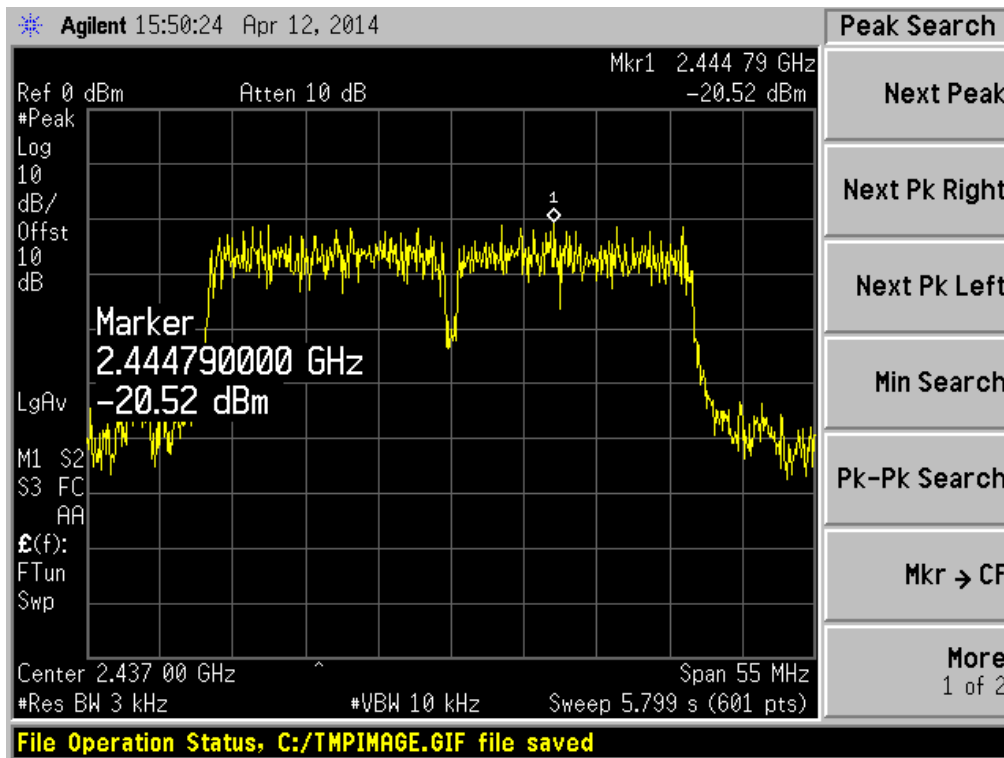
A.1.9, 802.11n-20MHz HIGH CHANNEL



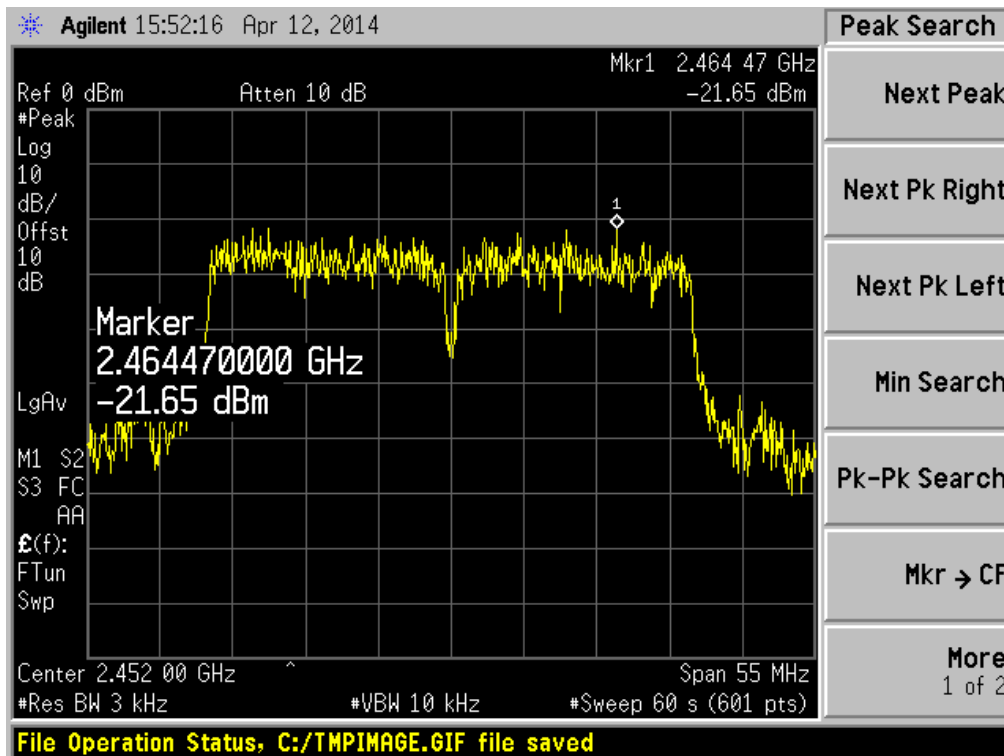
A.1.10, 802.11n-40MHz LOW CHANNEL



A.1.11, 802.11n-40MHz MID CHANNEL



A.1.12, 802.11n-40MHz HIGH CHANNEL



--END OF REPORT--