

FCC Part 15 Subpart C Test Report

for DSSS/OFDM System

Product Name : 3G/2G fixed wireless phone
Model Name : F800C

Prepared for:

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Date of Report : 02-07-2017
Date of Test : 01-05-2017~01-23-2017

Notes :

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

Applicant: CO-COMM SERVICIOS TELECOMUNICACIONES S.L.
C/Lisboa, 20 – 28232 Las Rozas (Madrid), Spain.

Manufacturer: CO-COMM SERVICIOS TELECOMUNICACIONES S.L.
C/Lisboa, 20 – 28232 Las Rozas (Madrid), Spain.

Product Name: 3G/2G fixed wireless phone

Brand Name: CO-COMM

Model Name: F800C

FCC ID: 2AKWZF800C

EUT Voltage: Extreme Low:3.5V Nominal:3.7V Extreme High:4.2V

Date of Receipt: 01-05-2017

Date of Test: 01-05-2017~01-23-2017

Test Standard: FCC CFR Title 47 Part 15 Subpart C
ANSI C 63.4: 2014
ANSI C 63.10: 2013
KDB 558074 D01 v03r05

Test Result: PASS

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1. GENERAL INFORMATION

1.1 EUT DESCRIPTION

Product Name:	3G/2G fixed wireless phone
Model Name:	F800C
Hardware Version:	F800C57v1.0
Software Version:	F800C57v000.1.0
RF Exposure Environment:	Uncontrolled
WIFI	
Frequency Range:	2412MHz~2462MHz
Type of Modulation:	DSSS(BPSK/QPSK/CCK) OFDM(BPSK/QPSK/16QAM/64QAM)
Channel Number:	11
Antenna Type:	Internal
Antenna Peak Gain:	3. 1dB
Component	
AC Adapter:	Input: AC 100-240V 50/60Hz 0.5A
	Output: DC 5V 1.5A

1.2 TEST MODE

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

Test Mode	Test Voltage
Mode 1: 802.11b CH1	AC 115V / 60Hz
Mode 2: 802.11b CH6	AC 115V / 60Hz
Mode 3: 802.11b CH11	AC 115V / 60Hz
Mode 4: 802.11g CH1	AC 115V / 60Hz
Mode 5: 802.11g CH6	AC 115V / 60Hz
Mode 6: 802.11g CH11	AC 115V / 60Hz
Mode 7: 802.11n20 CH1	AC 115V / 60Hz
Mode 8: 802.11n20 CH6	AC 115V / 60Hz
Mode 9: 802.11n20 CH11	AC 115V / 60Hz
Mode 10: 802.11n40 CH3	AC 115V / 60Hz
Mode 11: 802.11n40 CH6	AC 115V / 60Hz
Mode 12: 802.11n40 CH9	AC 115V / 60Hz

The conducted power table is as follows:

Test Mode		Conduct Power(dBm)		
		Channel 1	Channel 6	Channel 11
802.11b	rate 1	17.3	17.8	17.5
	rate 11	17.6	17.9	17.7
802.11g	rate 6	16.2	16.5	16.7
	rate 54	16.3	16.6	16.8
802.11n20	rate MCS 0	15.3	15.6	15.7
	rate MCS 7	15.4	15.7	15.8
Test Mode		Channel 3	Channel 6	Channel 9
802.11n40	rate MCS 0	14.6	14.8	14.4
	rate MCS 7	14.7	14.9	14.6

Note:

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

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4, C63.10 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

2.1 EUT CONFIGURATION

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

2.2 EUT EXERCISE

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

2.3 GENERAL TEST PROCEDURES

Conducted Emissions

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

Radiated Emissions

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

2.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

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

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

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

2 Above 38.6

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

2.5 DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.

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

IEEE802.11b mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

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

IEEE802.11g mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

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

IEEE802.11n20 mode:

Channel Low (2412MHz)

Channel Mid (2437MHz)

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

IEEE802.11n40 mode:

Channel Low (2422MHz)

Channel Mid (2437MHz)

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

3. TECHNIACL SUMMARY

3.1 SUMMARY OF STANDARDS AND TEST RESULTS

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

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

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

3.2 TEST UNCERTAINTY

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

Test item	Value
Conducted disturbance	3.4 dB
Radiated disturbance	4.2 dB
Conducted output power	1.1 dB
Power spectral density	1.7 dB
Band width	20 kHz

3.3 TEST EQUIPMENT LIST

Equipment	Manufacturer	Model	Serial No.	Due Date
Receiver	Agilent	N9038A	MY51210142	11/01/2017
Power meter	R&S	NRP2	101607	06/07/2017
Loop Antenna	Schwarzbeck	FMZB1519	1519-020	03/24/2018
LISN	R&S	ENV216	100069	06/07/2017
3m Chamber & Accessory Equipment	ETS-LINDGREN	FACT-3	CT-0000336	11/26/2017
Microwave Preamplifier	EM Electronics	EM30180	3008A02425	06/07/2017
Power Splitter	Agilent	11667C/ 52401	MY53806148	02/26/2018
Biconilog Antenna	Schwarzbeck	VULB 9160	3316	09/19/2017
Horn Antenna	Schwarzbeck	BBHA9120D	942	09/19/2017
Horn Antenna	Schwarzbeck	BBHA9120D	943	09/19/2017
Horn Antenna(18-40GHz)	ETS	3116	00070497	07/18/2017

3.4 TEST FACILITY

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

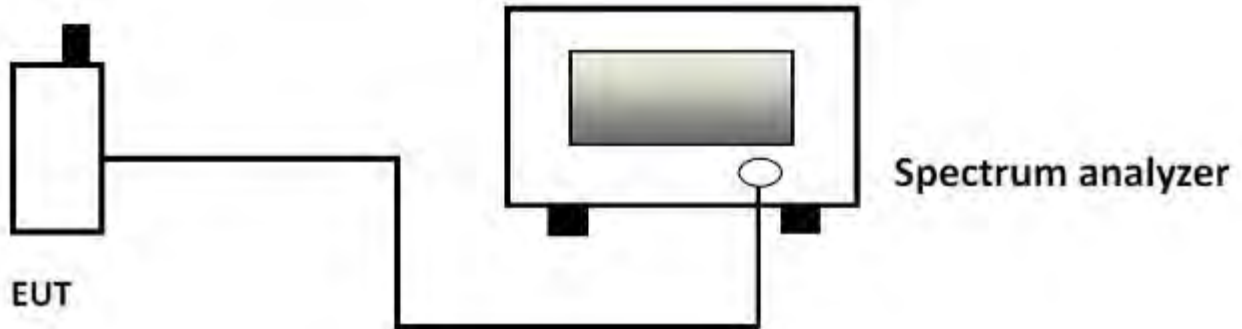
3.5 TEST SETUP CONFIGURATION

The information contained within this report is intended to show verification of compliance of the EUT to the requirements of CFR 47 FCC Part 15.247.

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

4. OCCUPIED BANDWIDTH

4.1 TEST SETUP



4.2 LIMITS

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

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

The measurement will be conducted at three channels.

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

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

XdB = -20dB

RBW = 100kHz

VBW $\geq 3 \times$ RBW

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

Sweep = auto

Detector function = peak

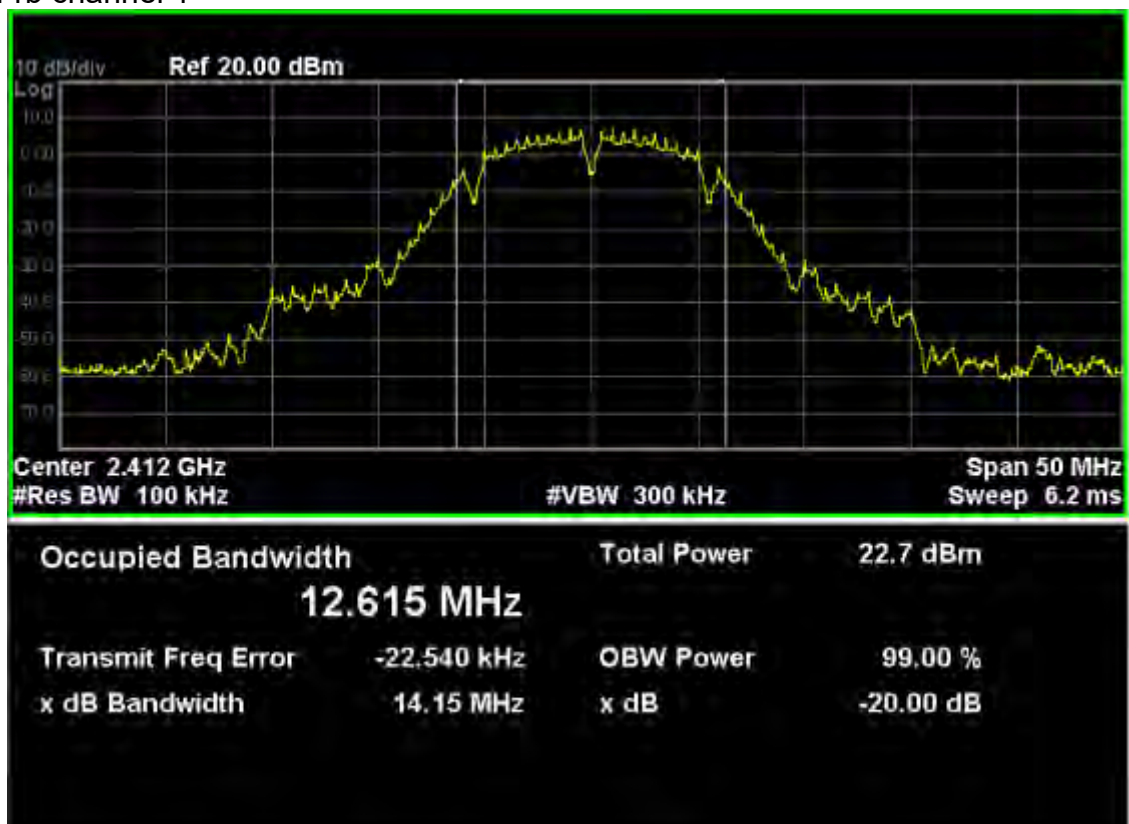
Trace = max hold

4.4 TEST RESULTS

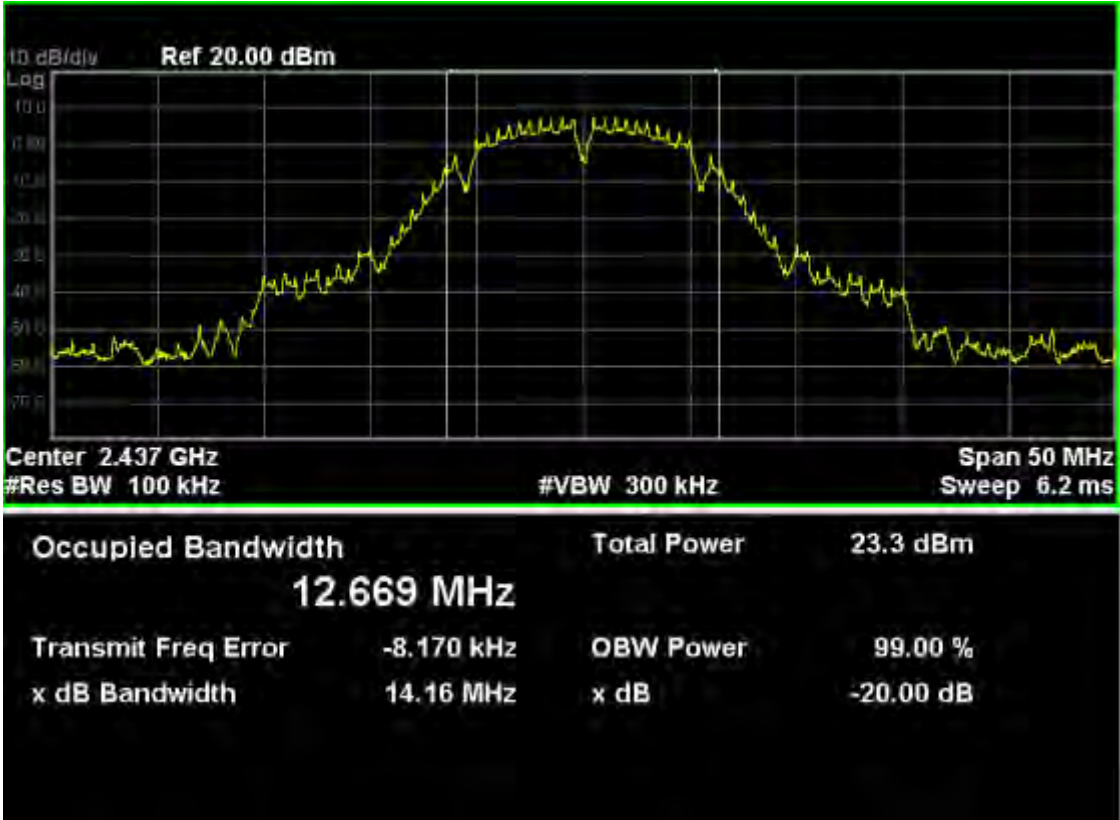
Channel	20dB bandwidth (MHz)	99% bandwidth (MHz)
802.11b		
802.11b CH1	14.15	12.615
802.11b CH6	14.16	12.669
802.11b CH11	14.17	12.709
802.11g		
802.11g CH1	17.72	16.390
802.11g CH6	17.84	16.414
802.11g CH11	17.59	16.389
802.11n20		
802.11n CH1	18.39	17.536
802.11n CH6	18.39	17.553
802.11n CH11	18.39	17.546
802.11n40		
802.11n CH3	37.23	35.894
802.11n CH6	37.38	36.034
802.11n CH9	37.39	35.884

802.11b

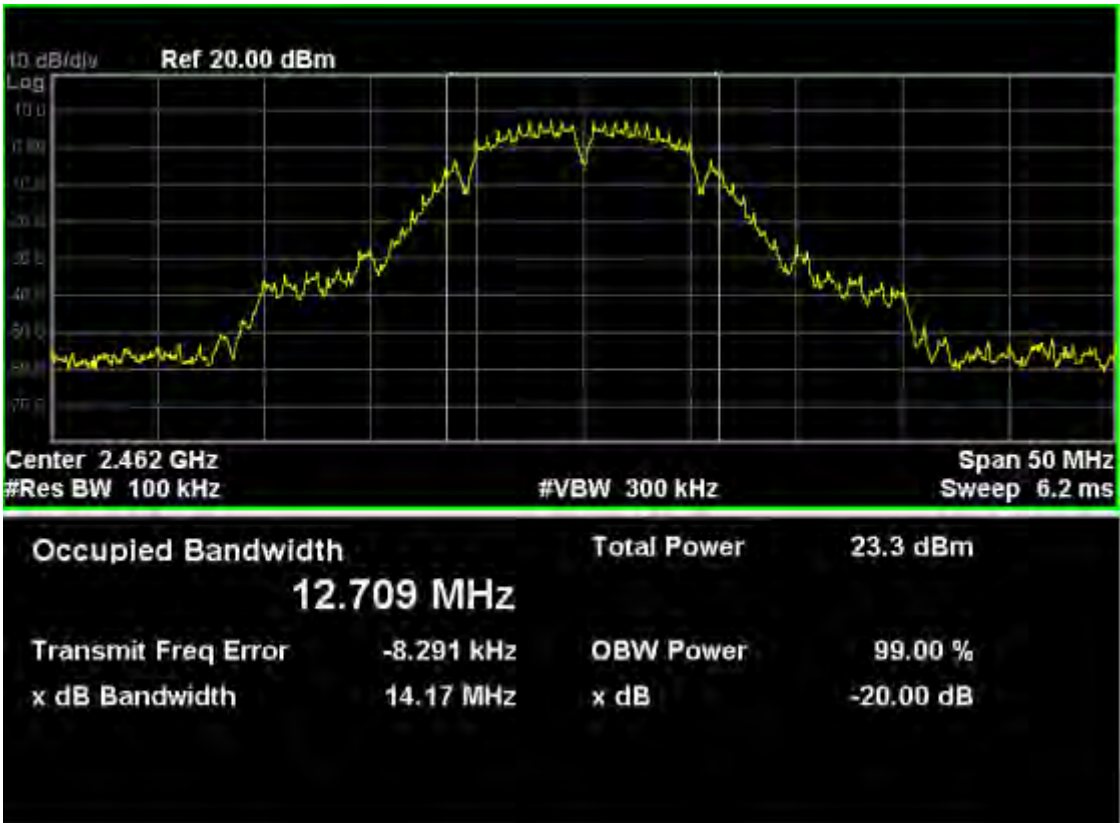
802.11b channel 1



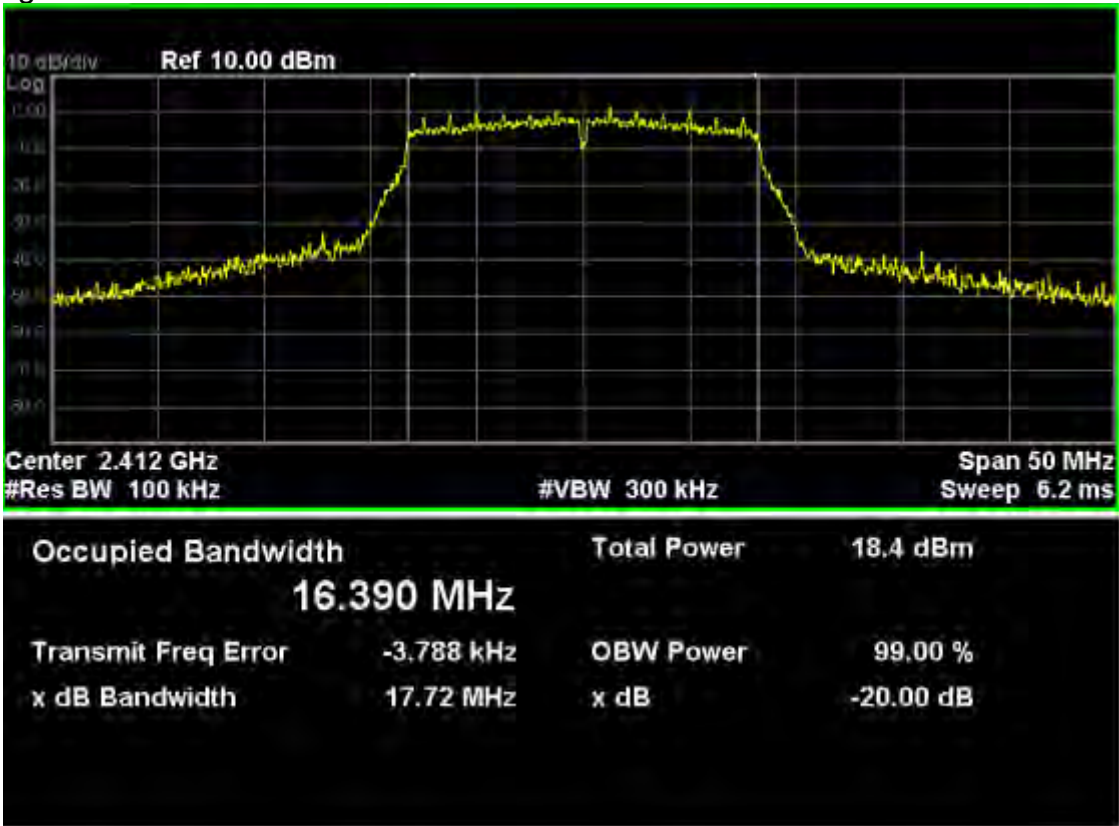
802.11b channel 6



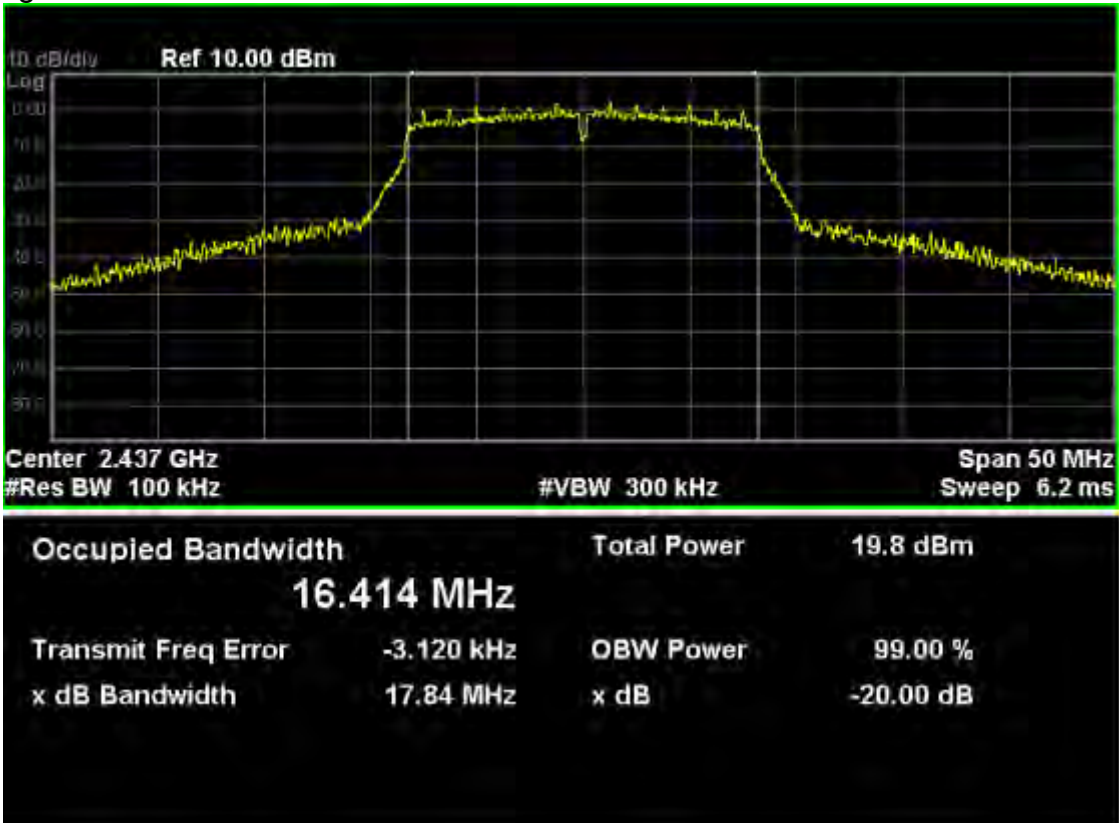
802.11b channel 11



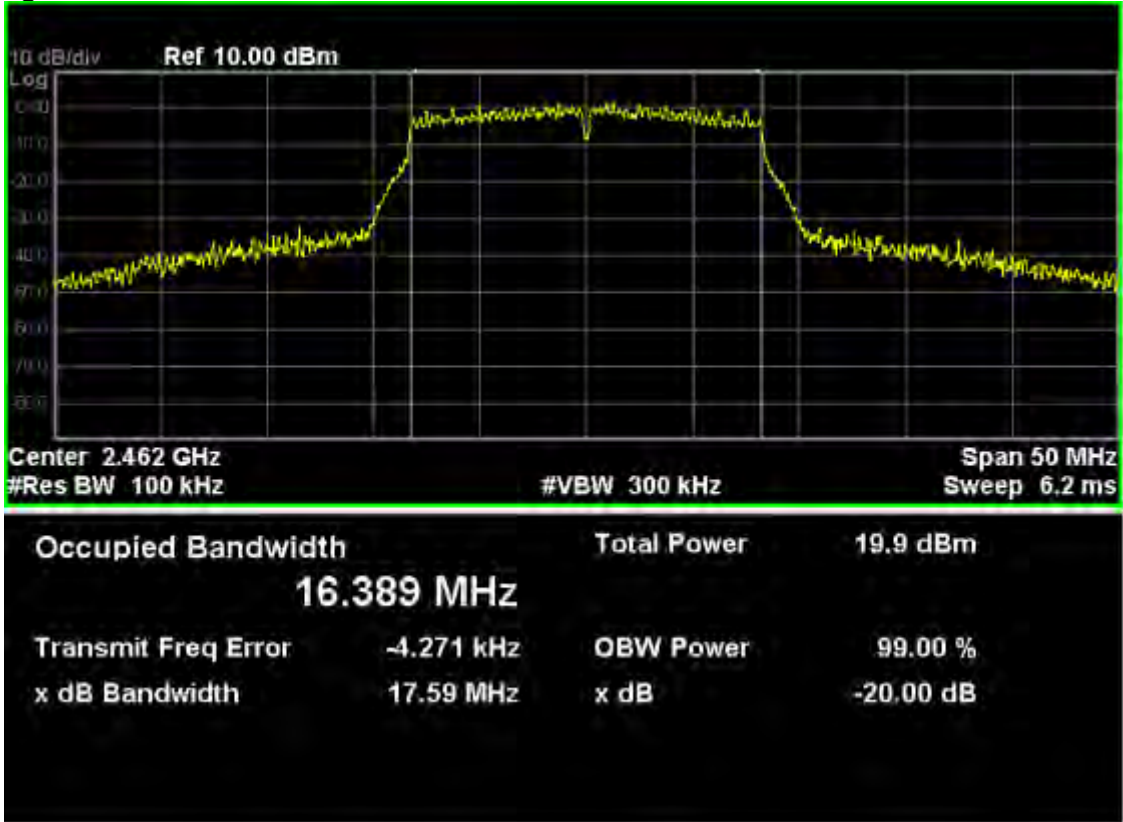
802.11g
802.11g channel 1



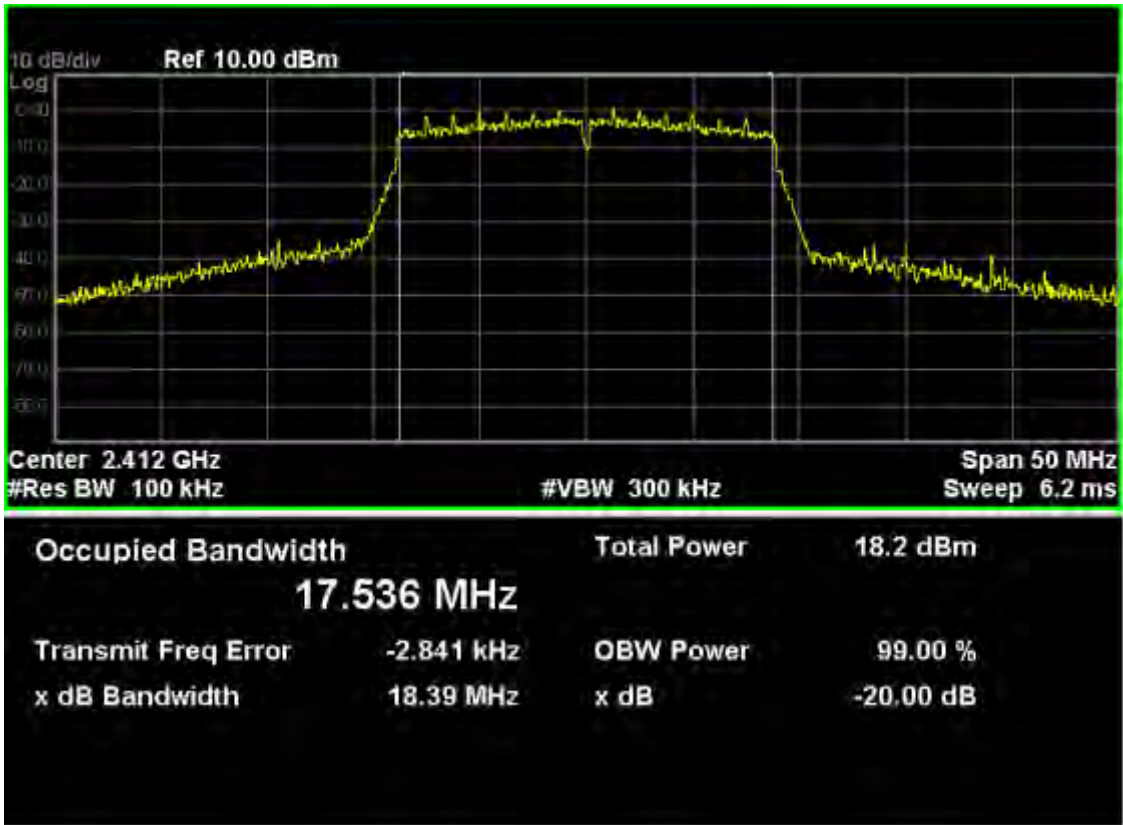
802.11g channel 6



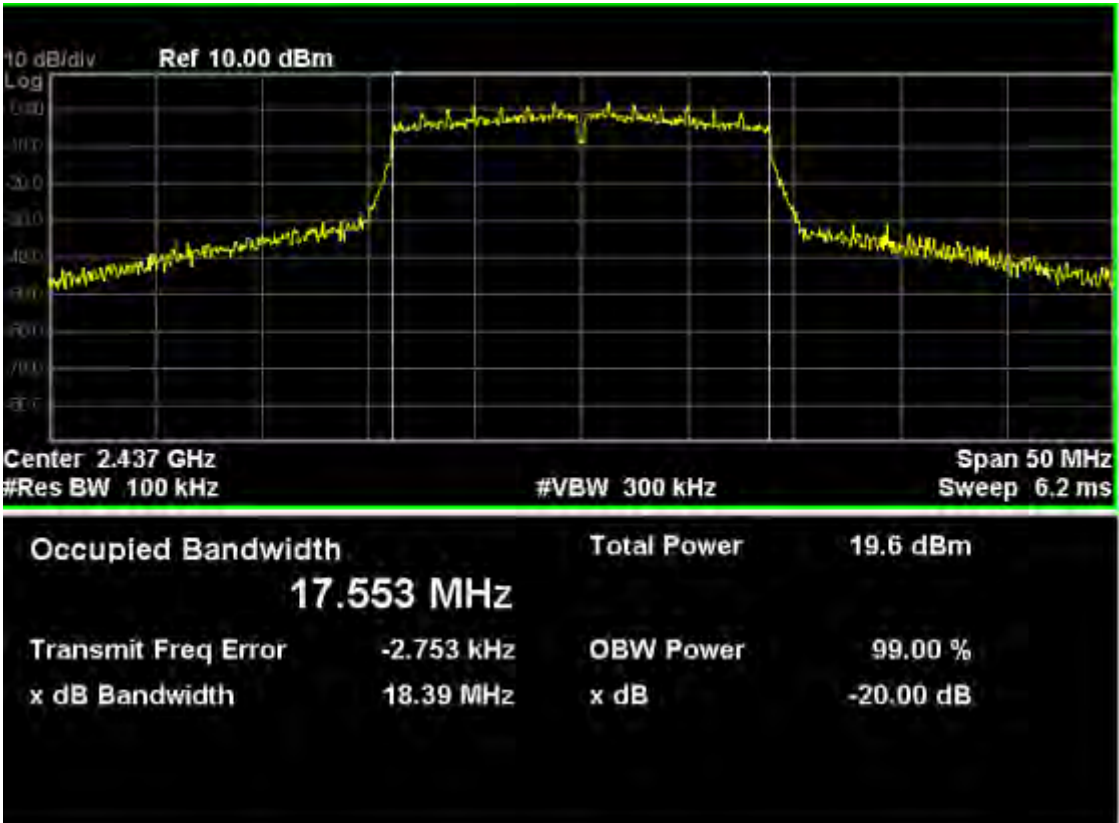
802.11g channel 11



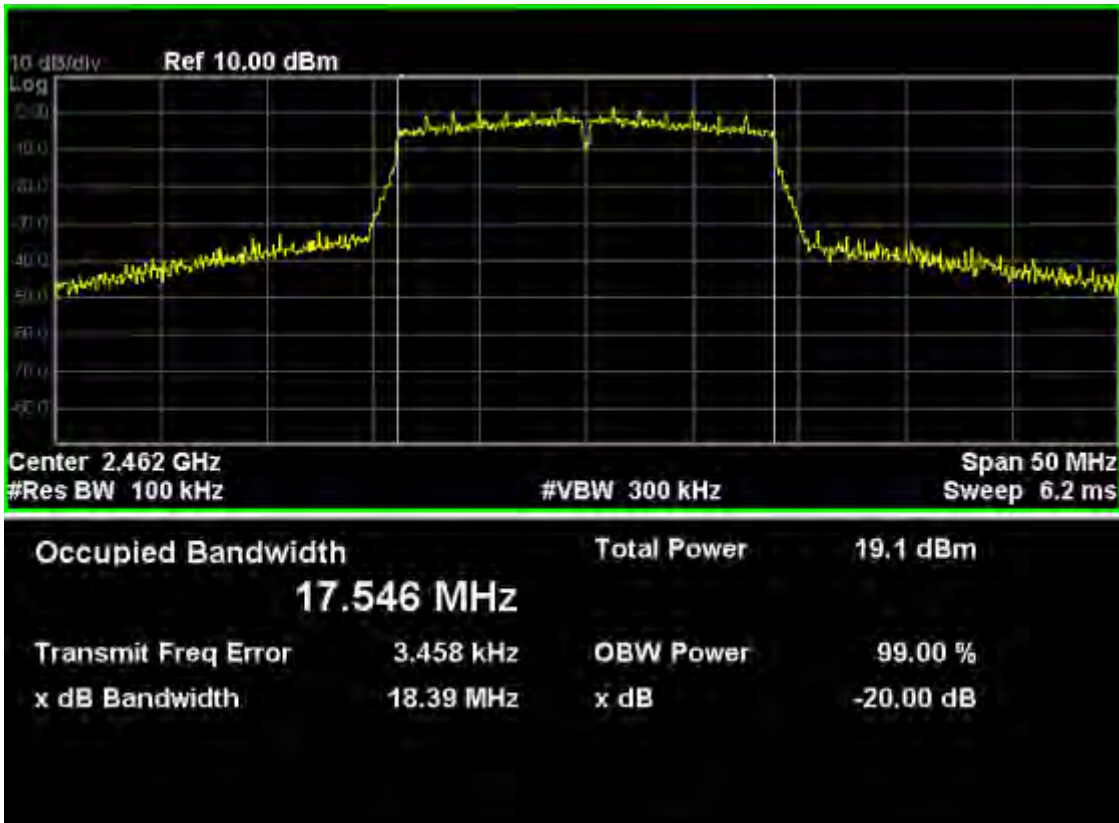
802.11n20
802.11n channel 1



802.11n channel 6



802.11n channel 11



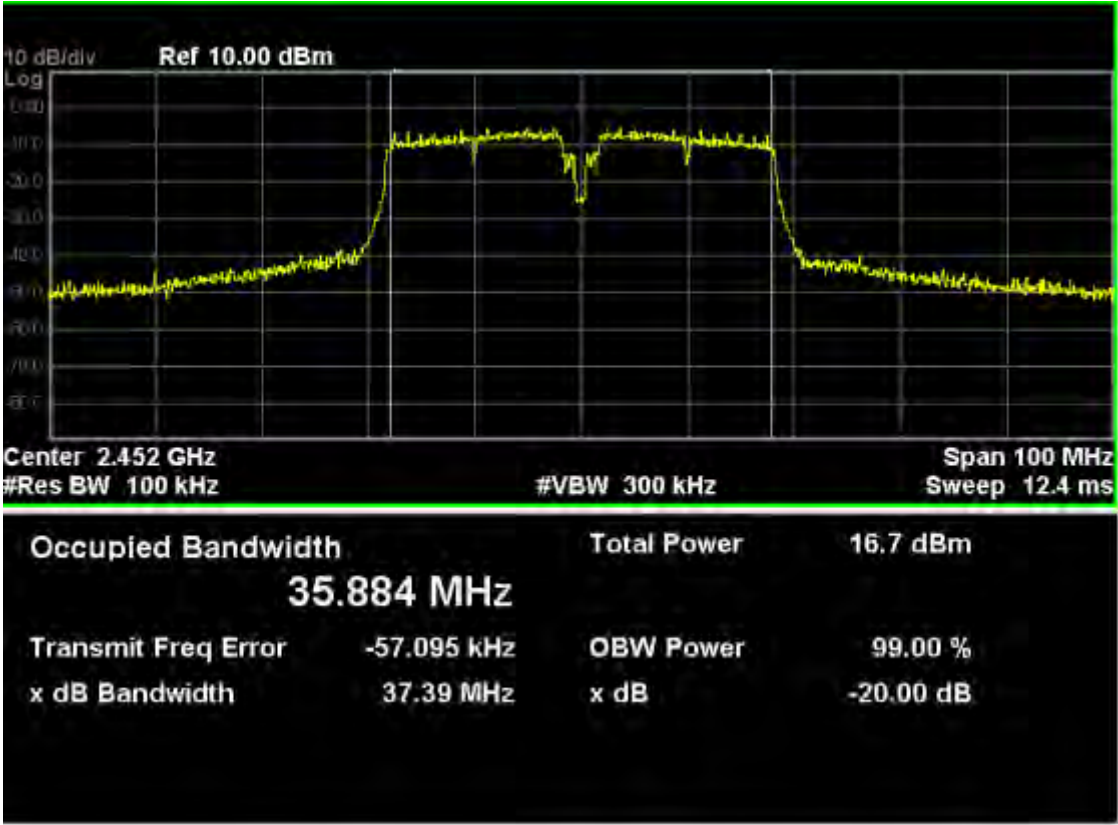
802.11n40
802.11n channel 3



802.11n channel 6

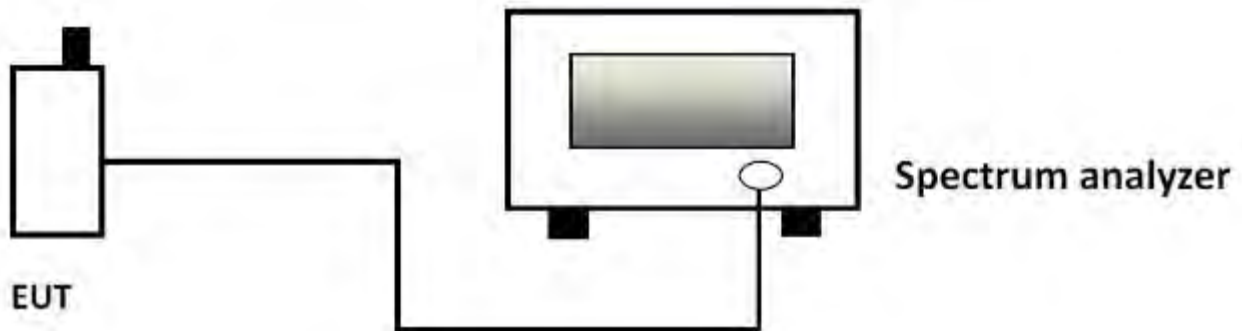


802.11n channel 11



5. 6 DB BANDWIDTH

5.1 TEST SETUP



5.2 LIMITS

Limit	≥ 500 kHz
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5.3 TEST PROCEDURE

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

The measurement will be conducted at three channels.

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

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

XdB = -6dB

RBW = 100KHz

VBW $\geq 3 \times$ RBW

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

Sweep = auto

Detector function = peak

Trace = max hold

5.4 RESULTS & PERFORMANCE

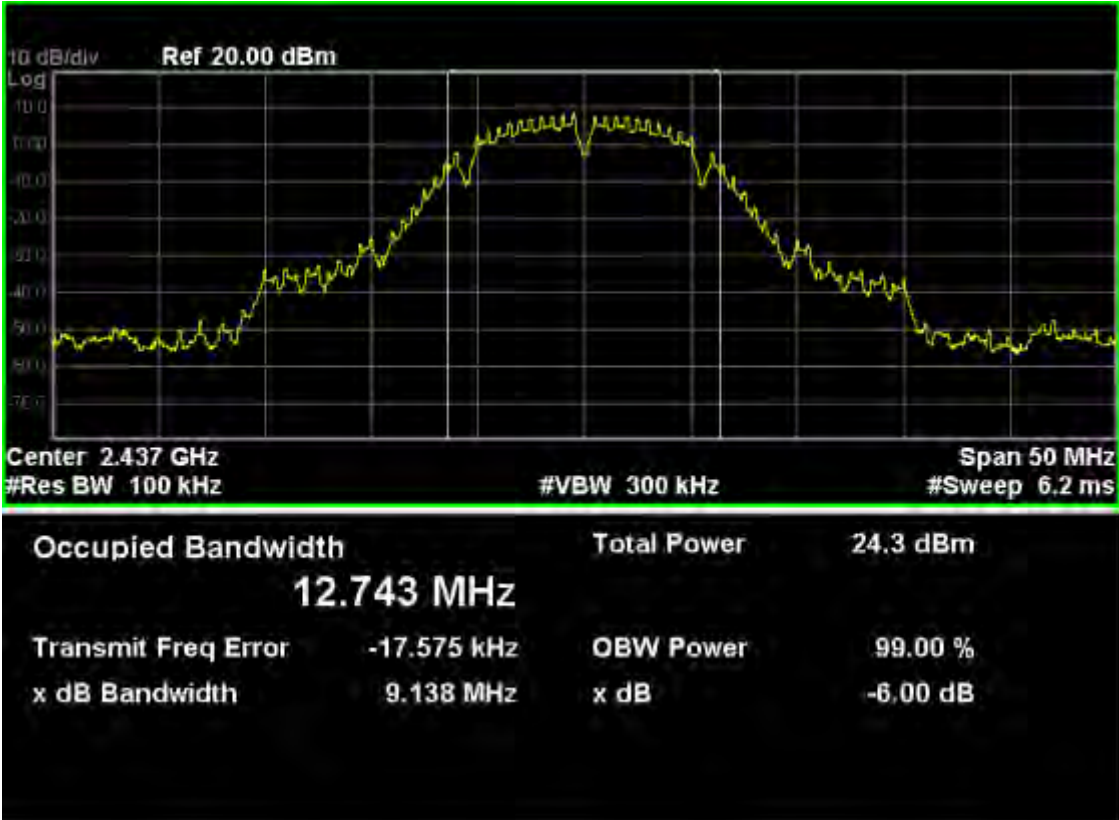
Channel	Measured 6dB bandwidth (MHz)	Limit (MHz)	Result
802.11b			
802.11b CH1	10.07	≥ 0.5	PASS
802.11b CH6	9.138	≥ 0.5	PASS
802.11b CH11	10.09	≥ 0.5	PASS
802.11g			
802.11g CH1	15.48	≥ 0.5	PASS
802.11g CH6	15.35	≥ 0.5	PASS
802.11g CH11	15.19	≥ 0.5	PASS
802.11n20			
802.11n CH1	15.19	≥ 0.5	PASS
802.11n CH6	15.19	≥ 0.5	PASS
802.11n CH11	16.02	≥ 0.5	PASS
802.11n40			
802.11n CH3	35.52	≥ 0.5	PASS
802.11n CH6	35.55	≥ 0.5	PASS
802.11n CH9	35.49	≥ 0.5	PASS

802.11b

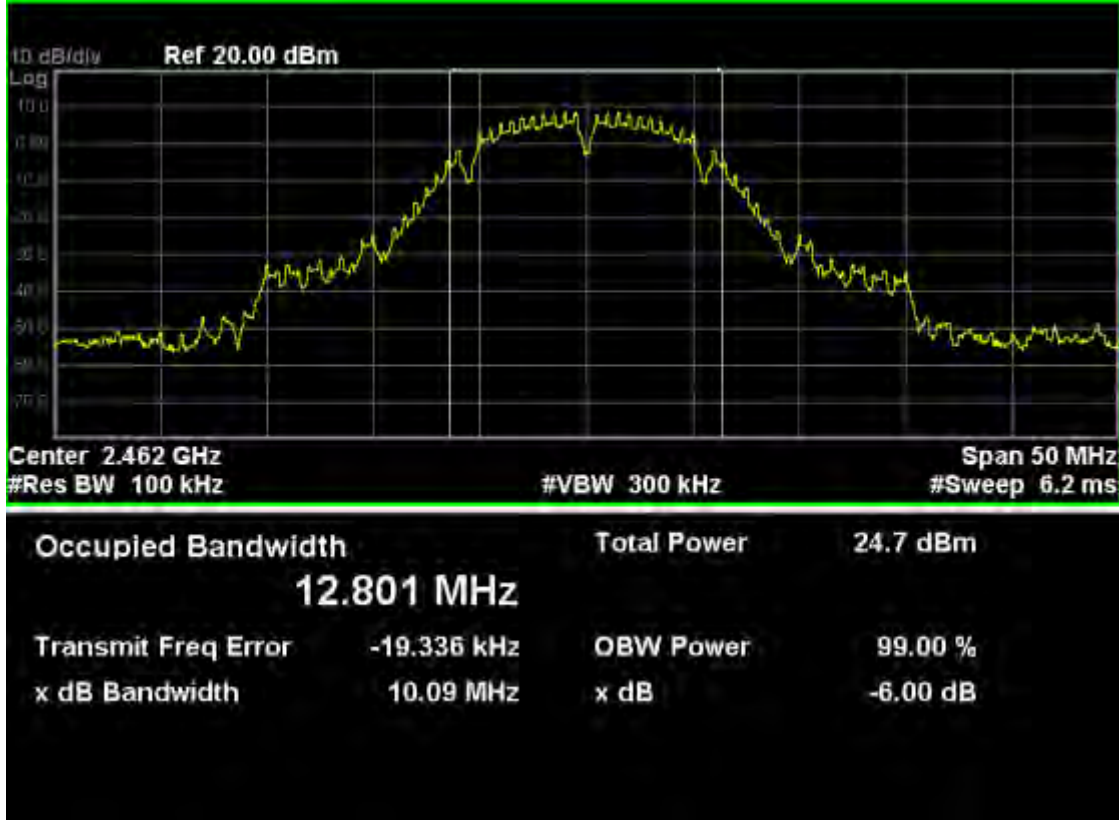
802.11b channel 1



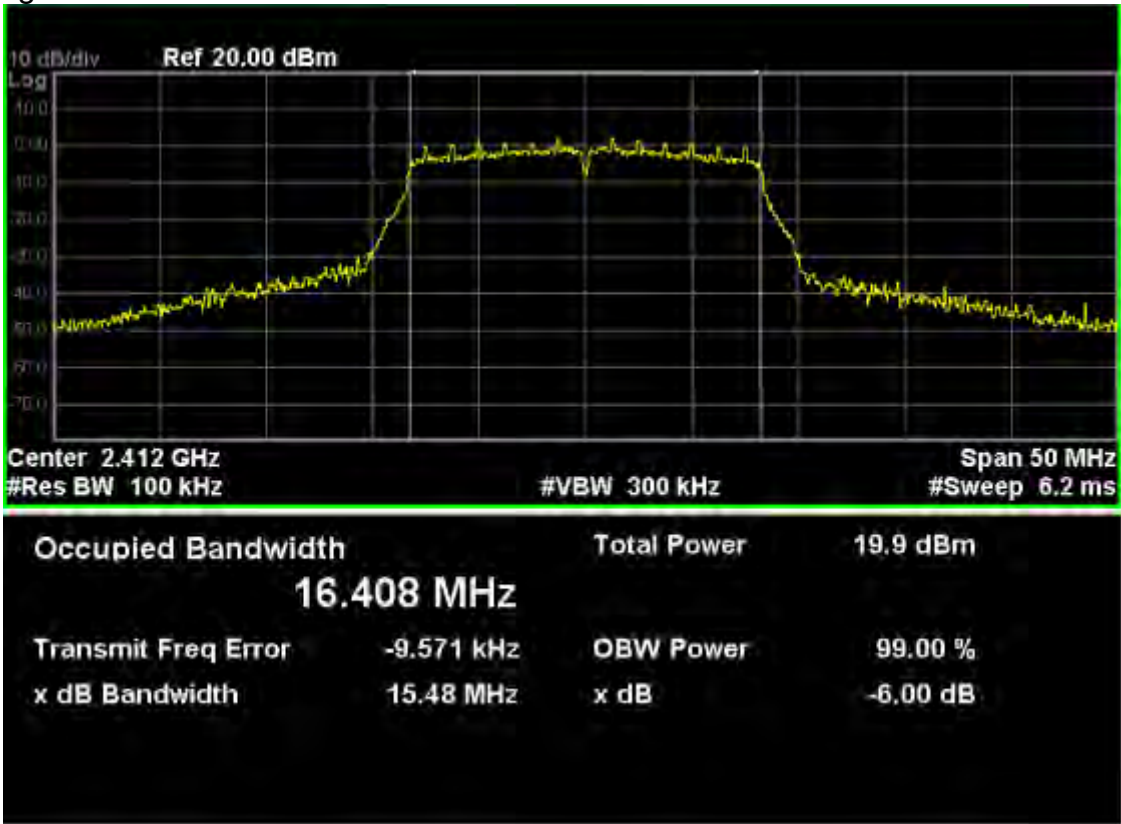
802.11b channel 6



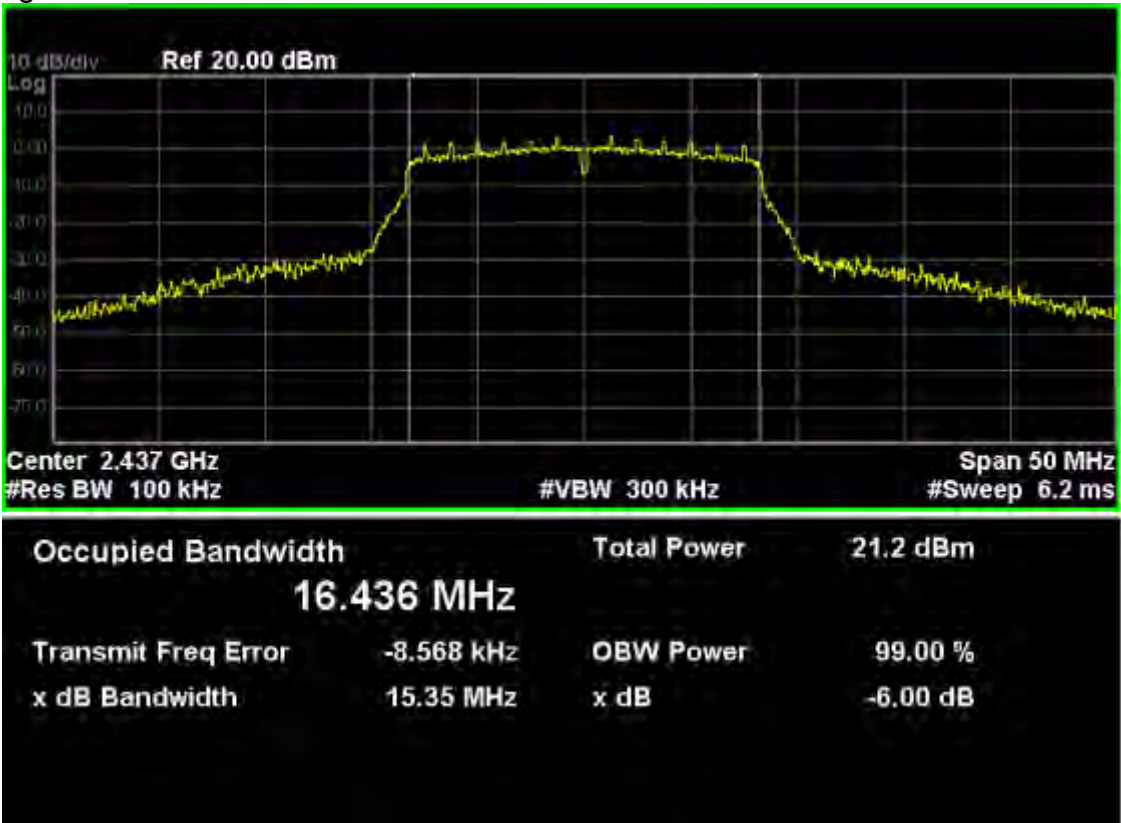
802.11b channel 11



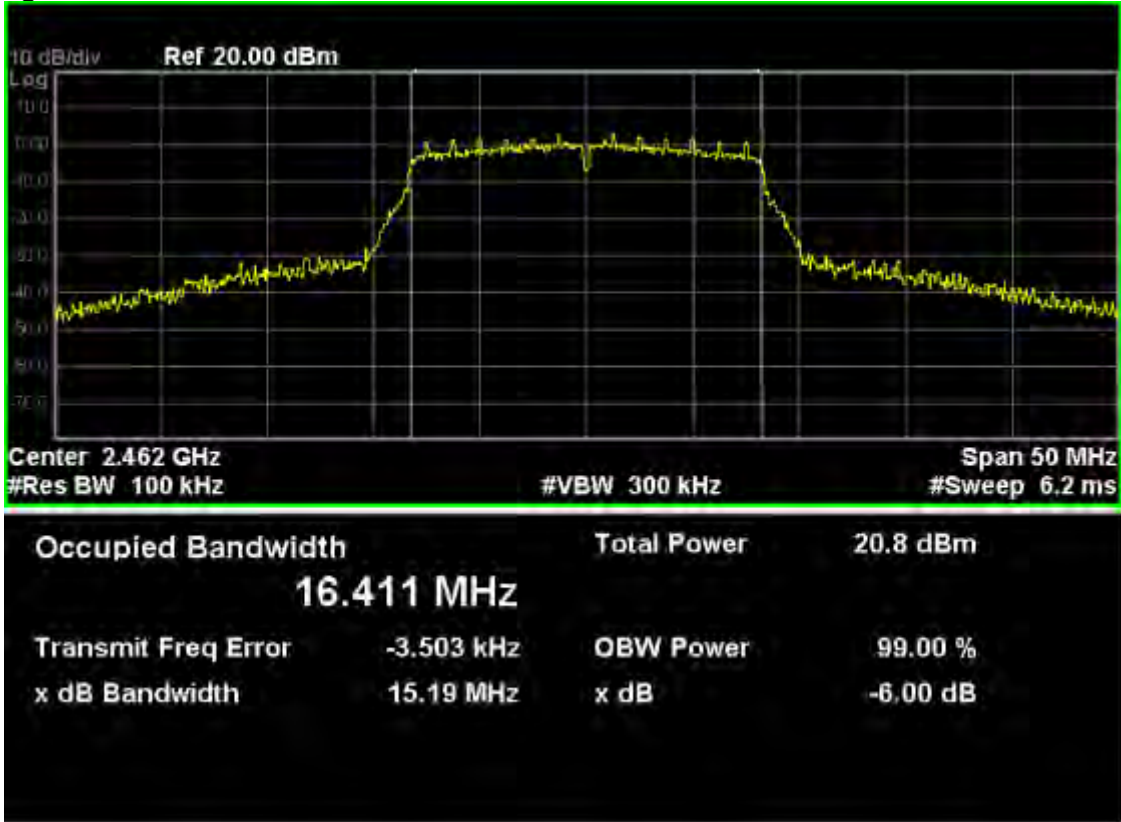
802.11g
802.11g channel 1



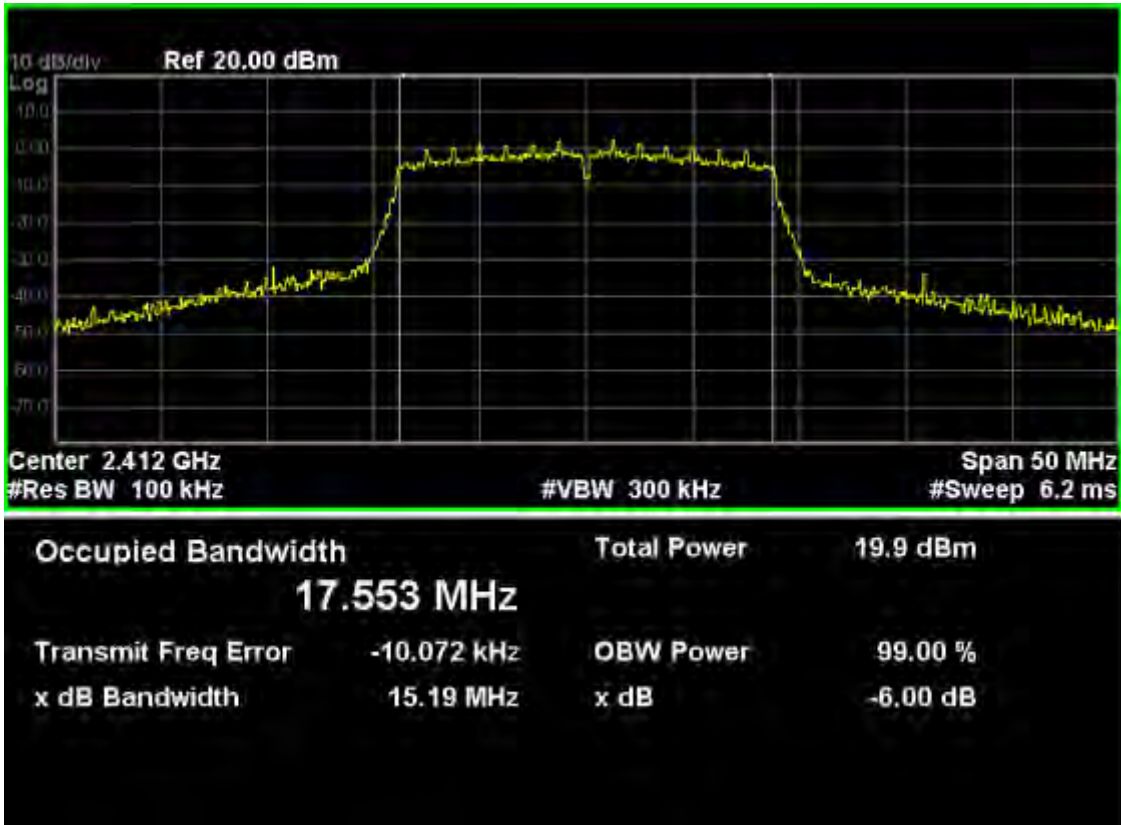
802.11g channel 6



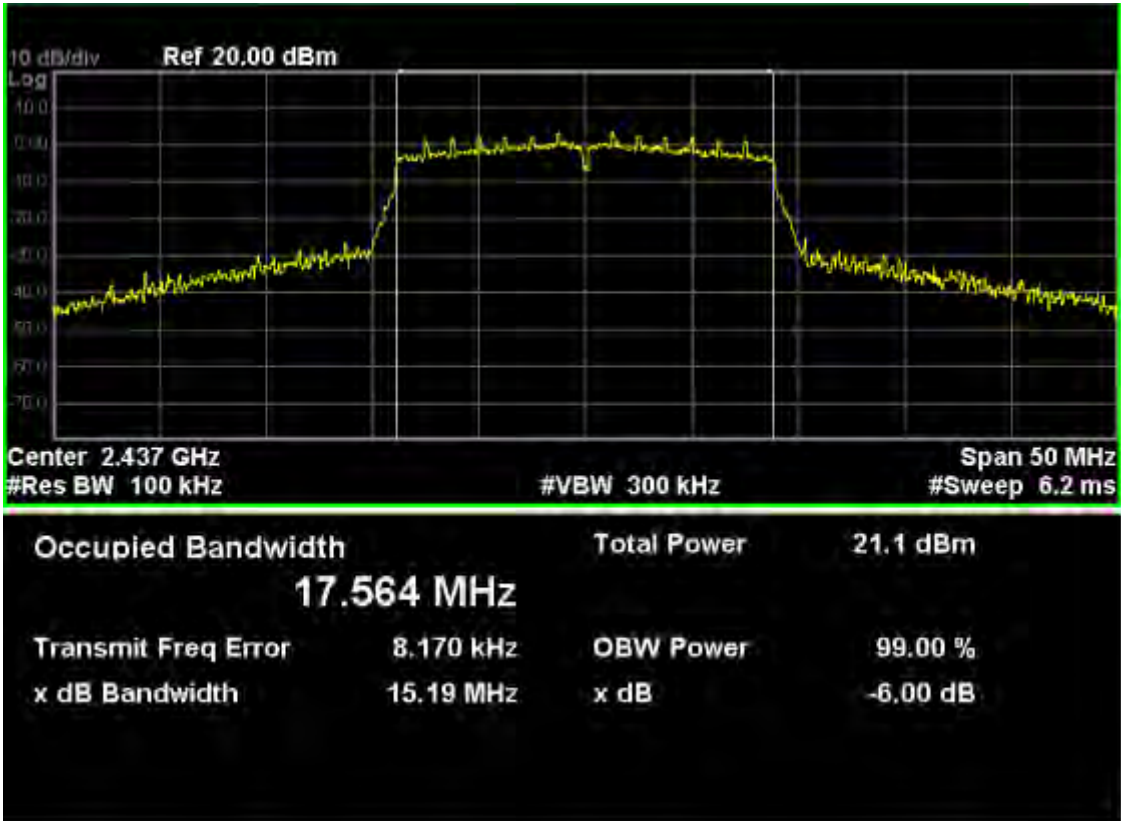
802.11g channel 11



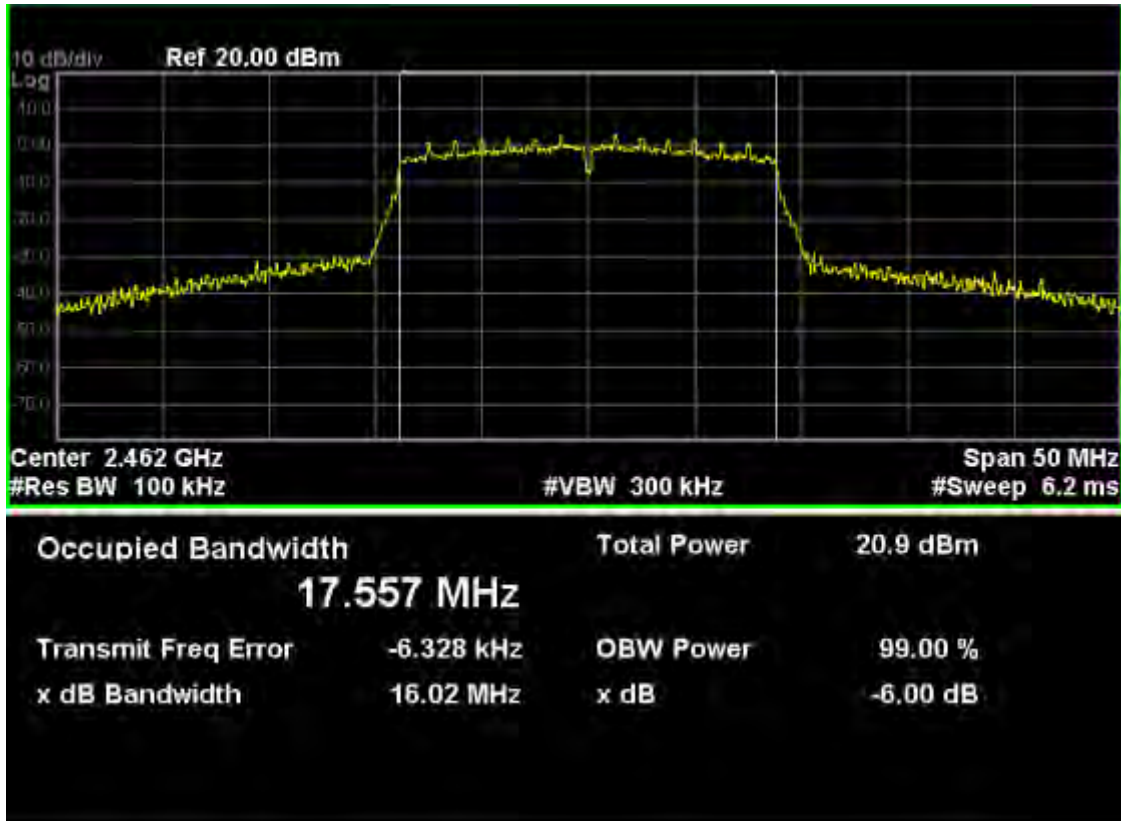
802.11n20
802.11n channel 1



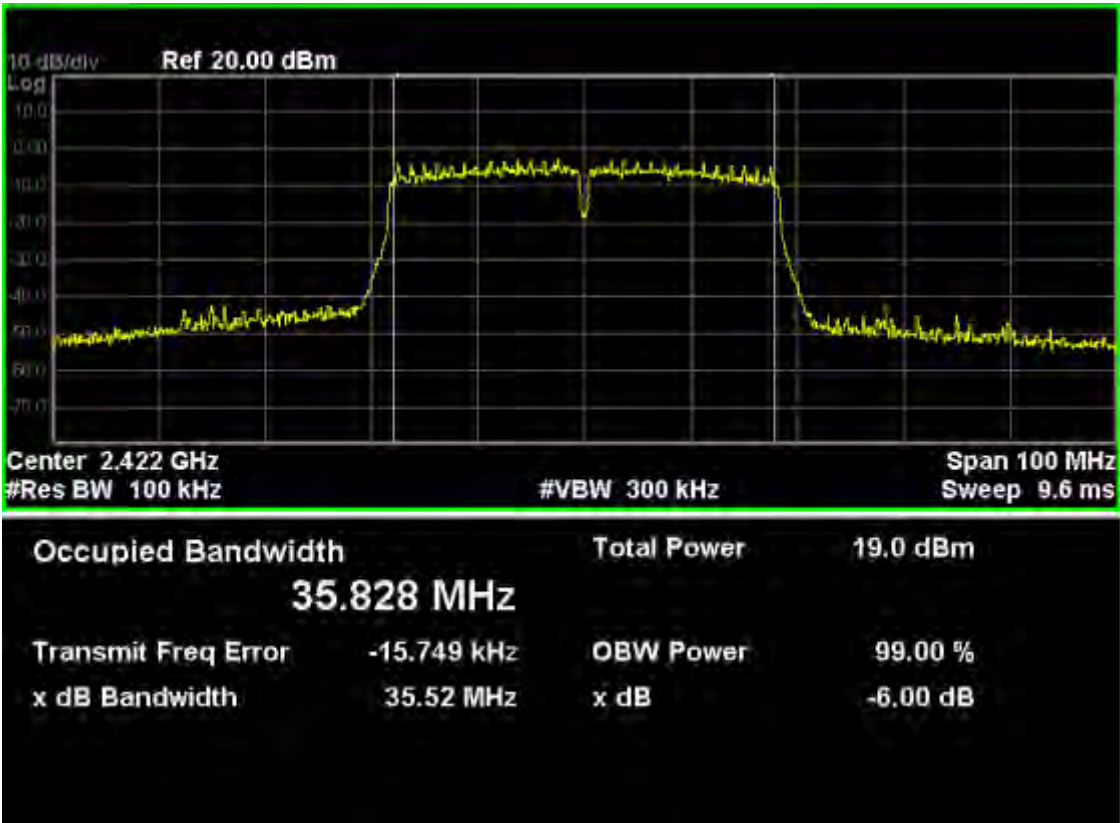
802.11n channel 6



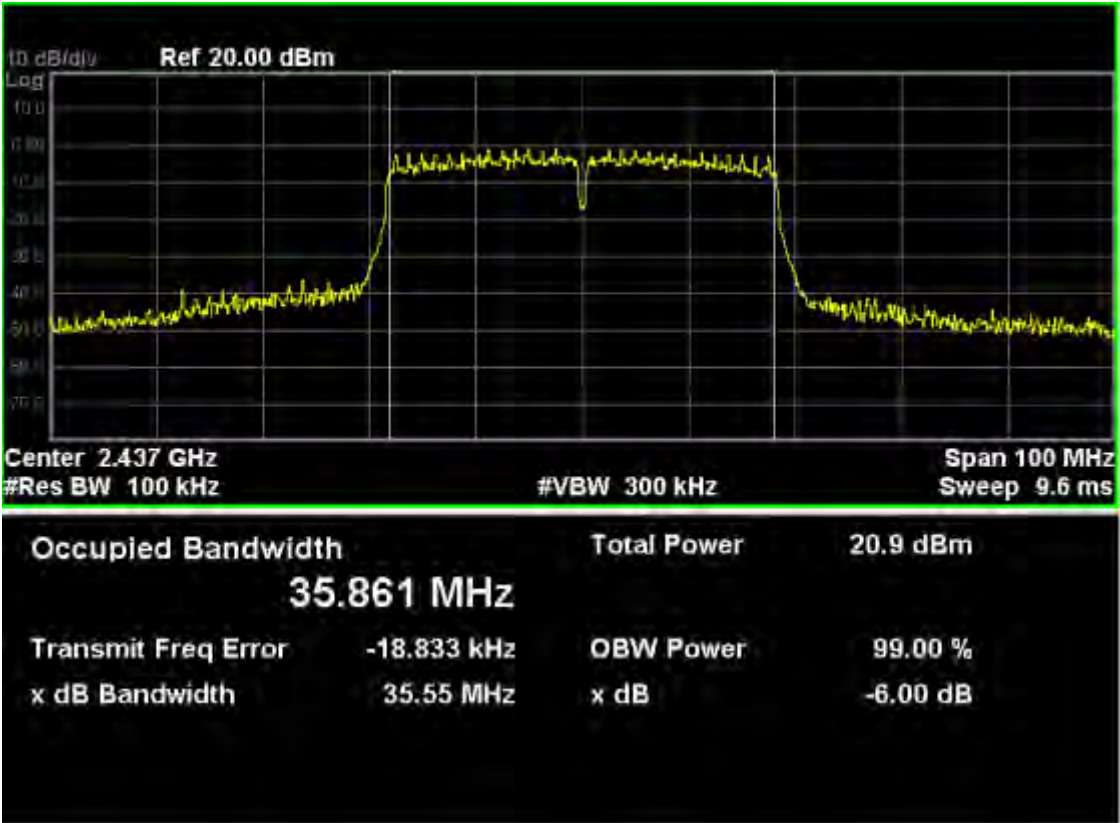
802.11n channel 11



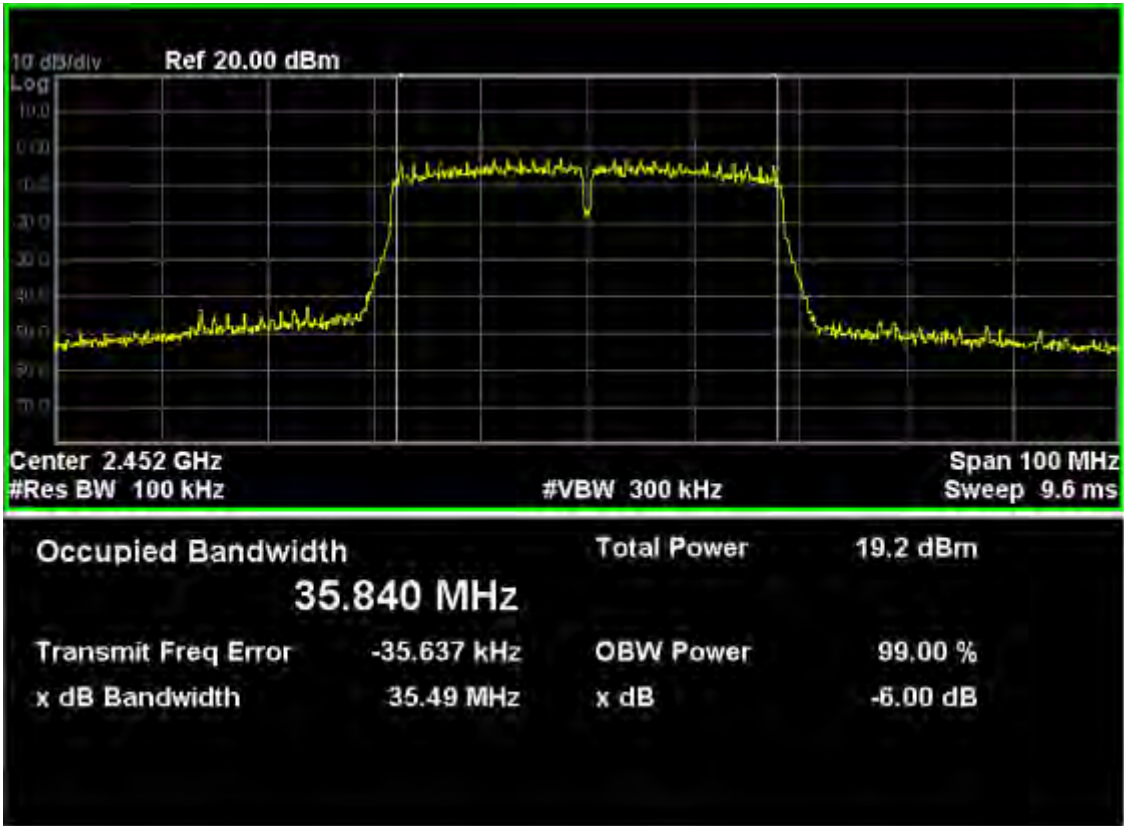
802.11n40
802.11n channel 3



802.11n channel 6

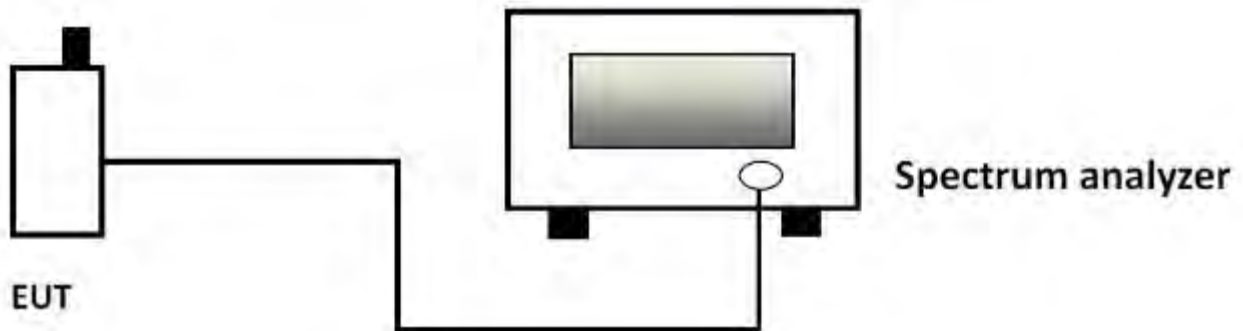


802.11n channel 9



6. POWER SPECTRAL DENSITY

6.1 TEST SETUP



6.2 LIMITS

Limits	$\leq 8\text{dBm}/3\text{kHz}$
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6.3 TEST PROCEDURE

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.

Set the VBW $\geq 3 \times \text{RBW}$.

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.

6.4 RESULTS & PERFORMANCE

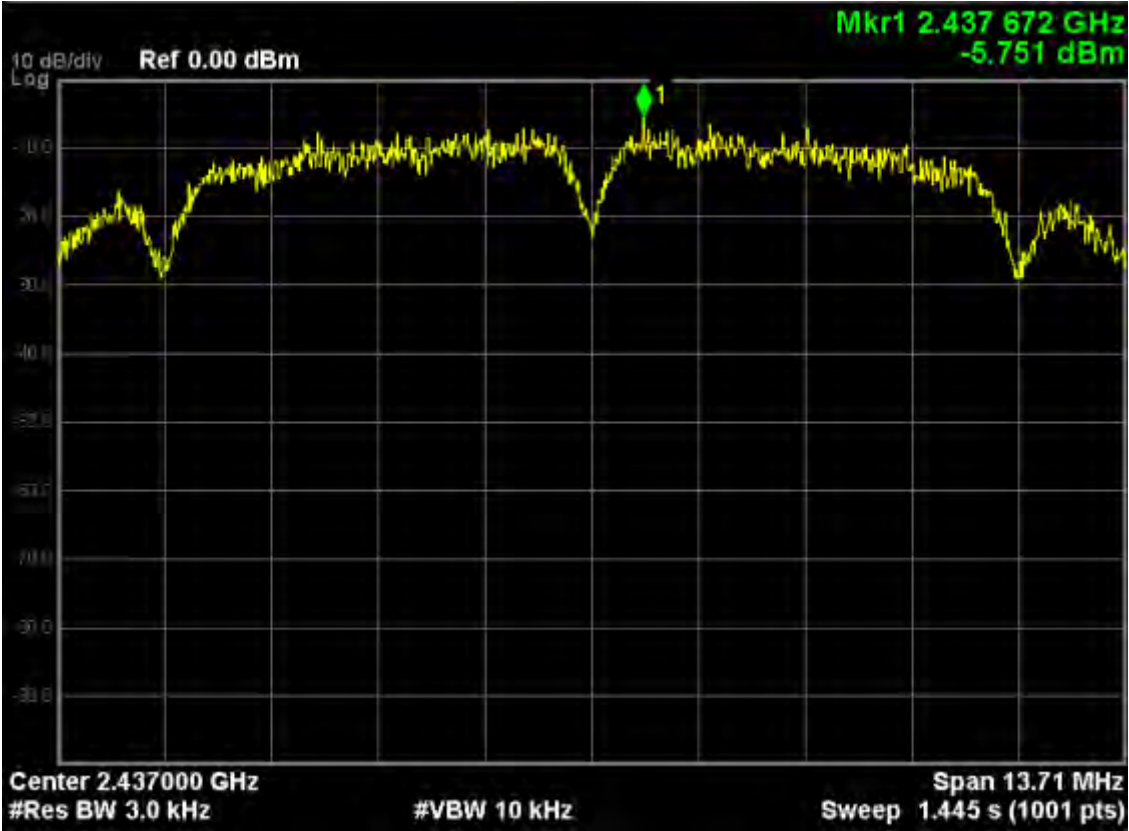
Mode	Channel	Measured level (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	CH1	-6.160	≤8.00	Pass
	CH6	-5.751	≤8.00	Pass
	CH11	-5.334	≤8.00	Pass
802.11g	CH1	-12.339	≤8.00	Pass
	CH6	-12.420	≤8.00	Pass
	CH11	-11.416	≤8.00	Pass
802.11n20	CH1	-11.008	≤8.00	Pass
	CH6	-10.011	≤8.00	Pass
	CH11	-11.522	≤8.00	Pass
802.11n40	CH3	-18.422	≤8.00	Pass
	CH6	-16.313	≤8.00	Pass
	CH9	-18.659	≤8.00	Pass

802.11b

802.11b channel 1



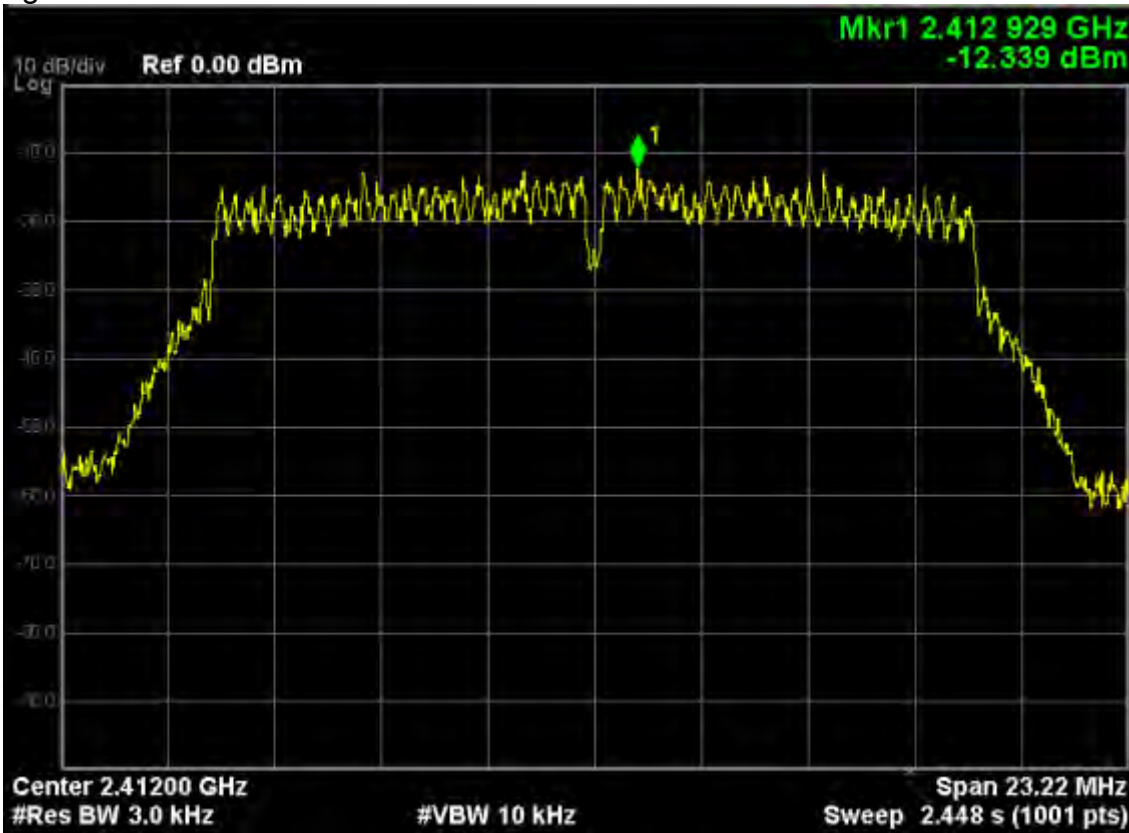
802.11b channel 6



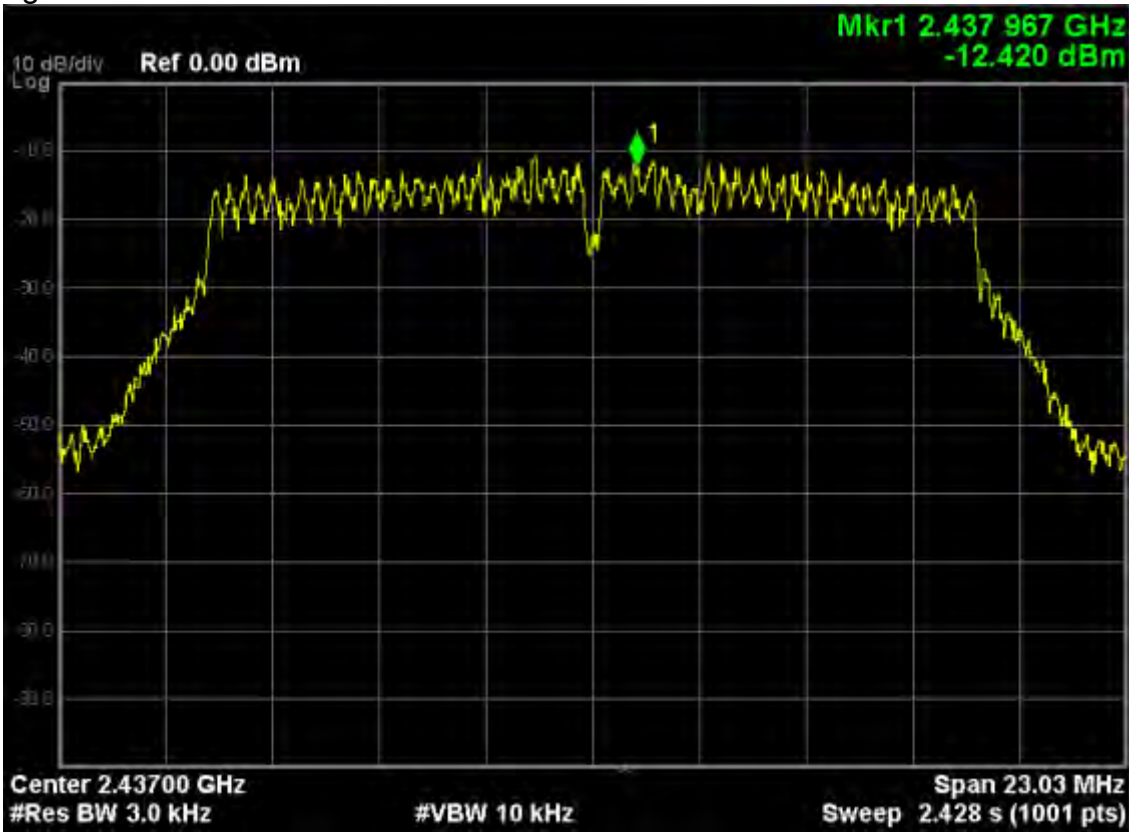
802.11b channel 11



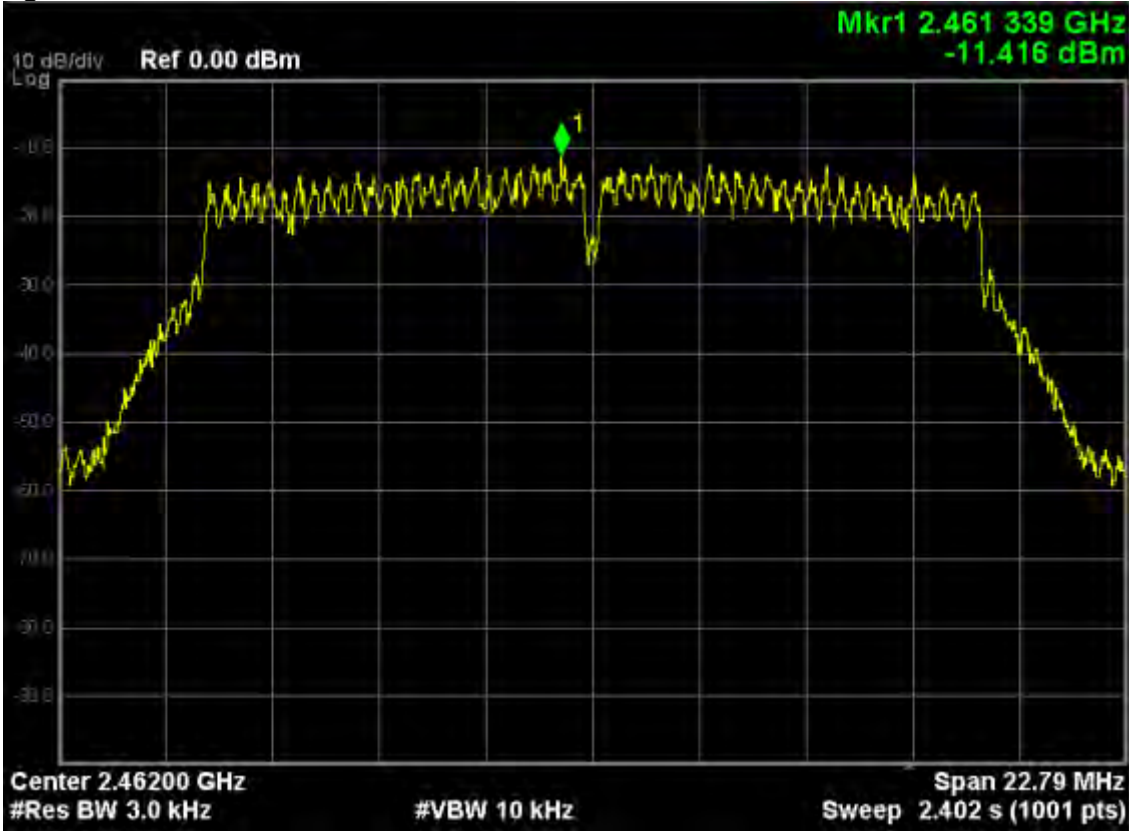
802.11g
802.11g channel 1



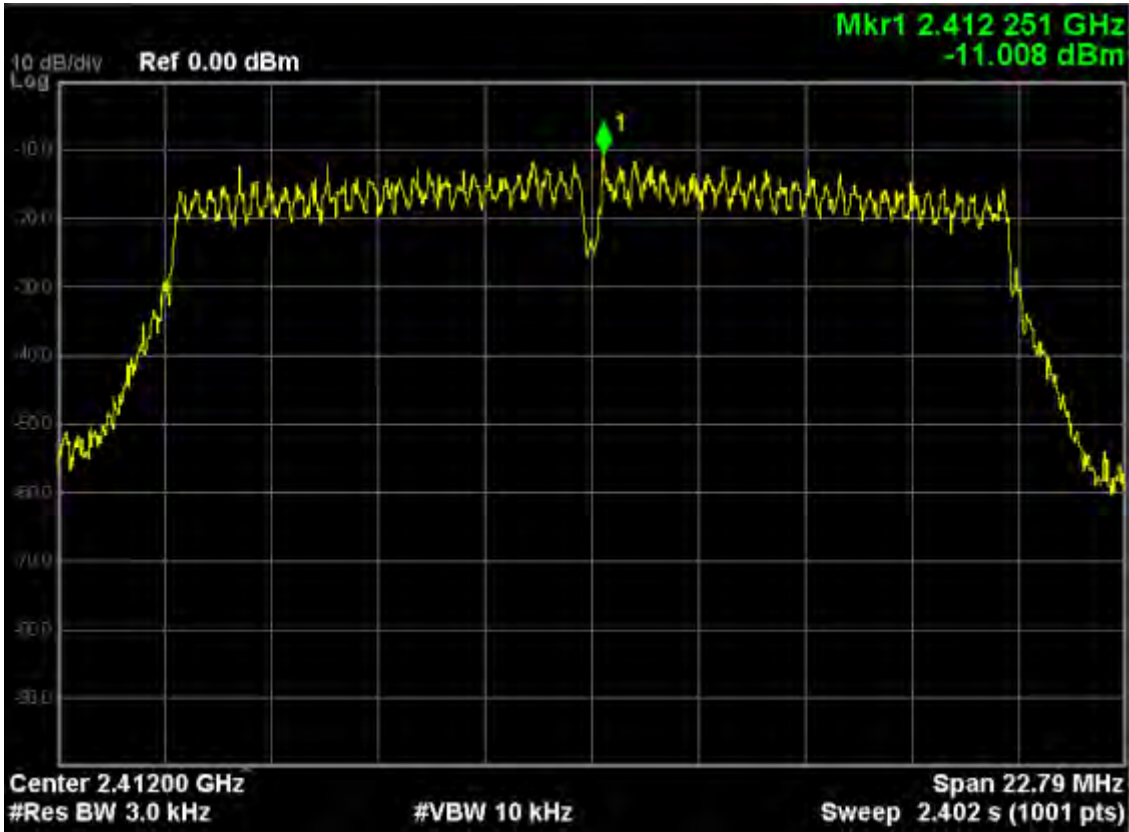
802.11g channel 6



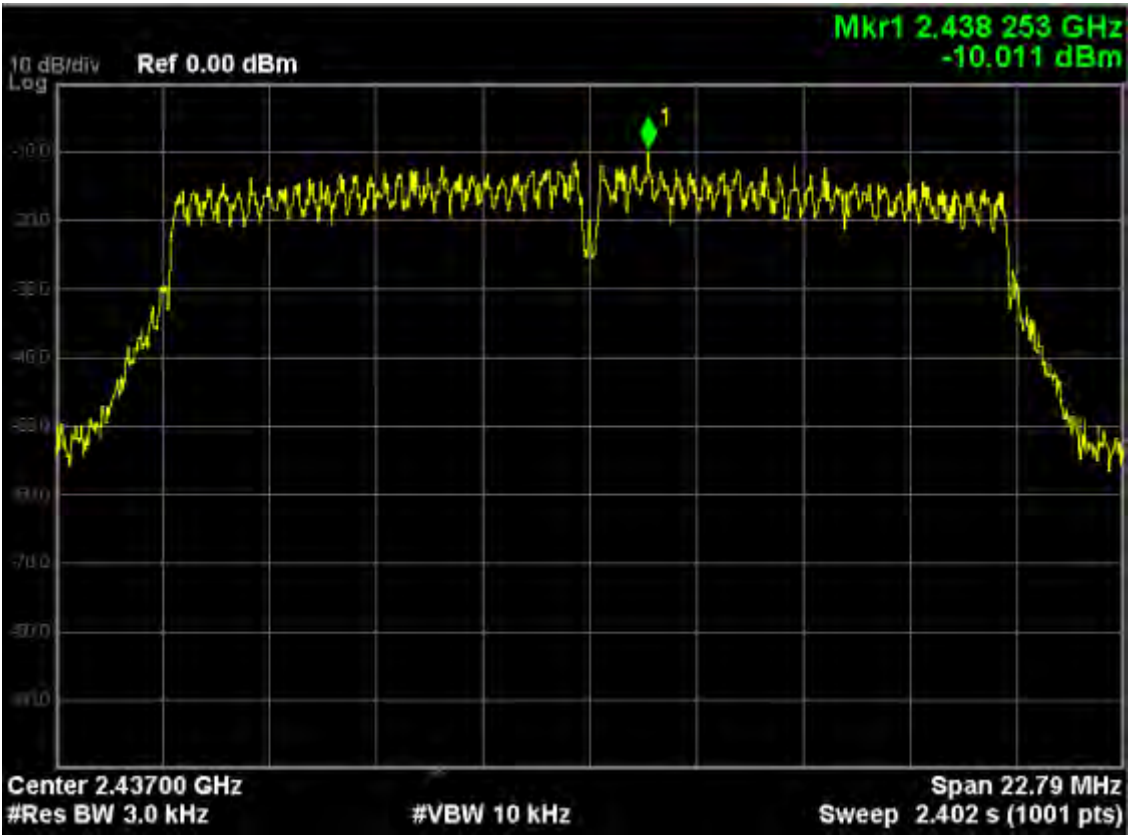
802.11g channel 11



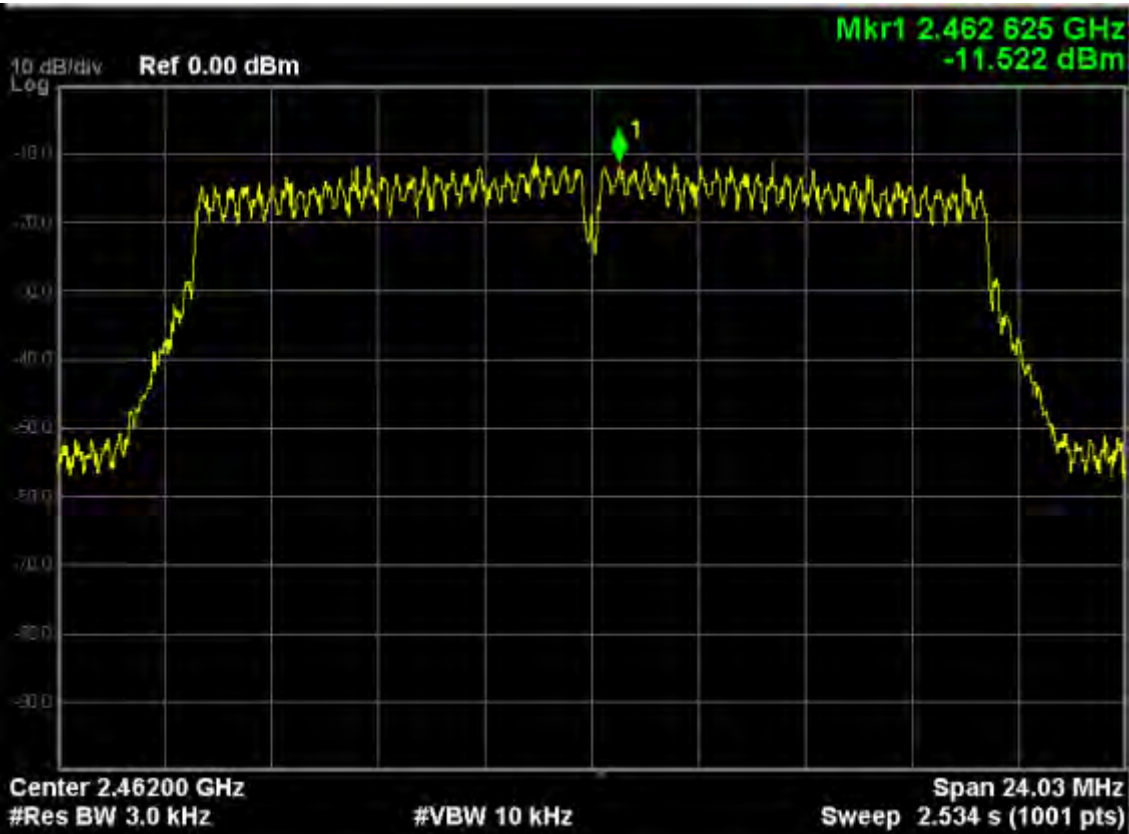
802.11n20
802.11n channel 1



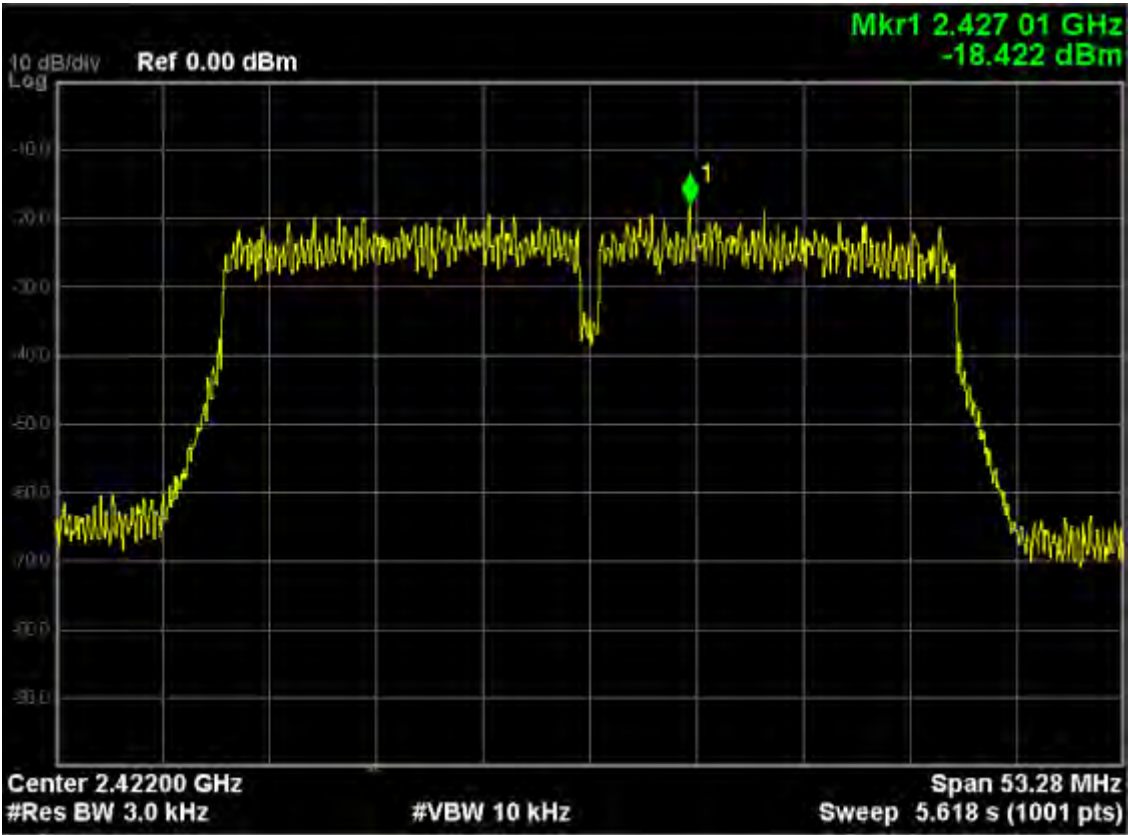
802.11n channel 6



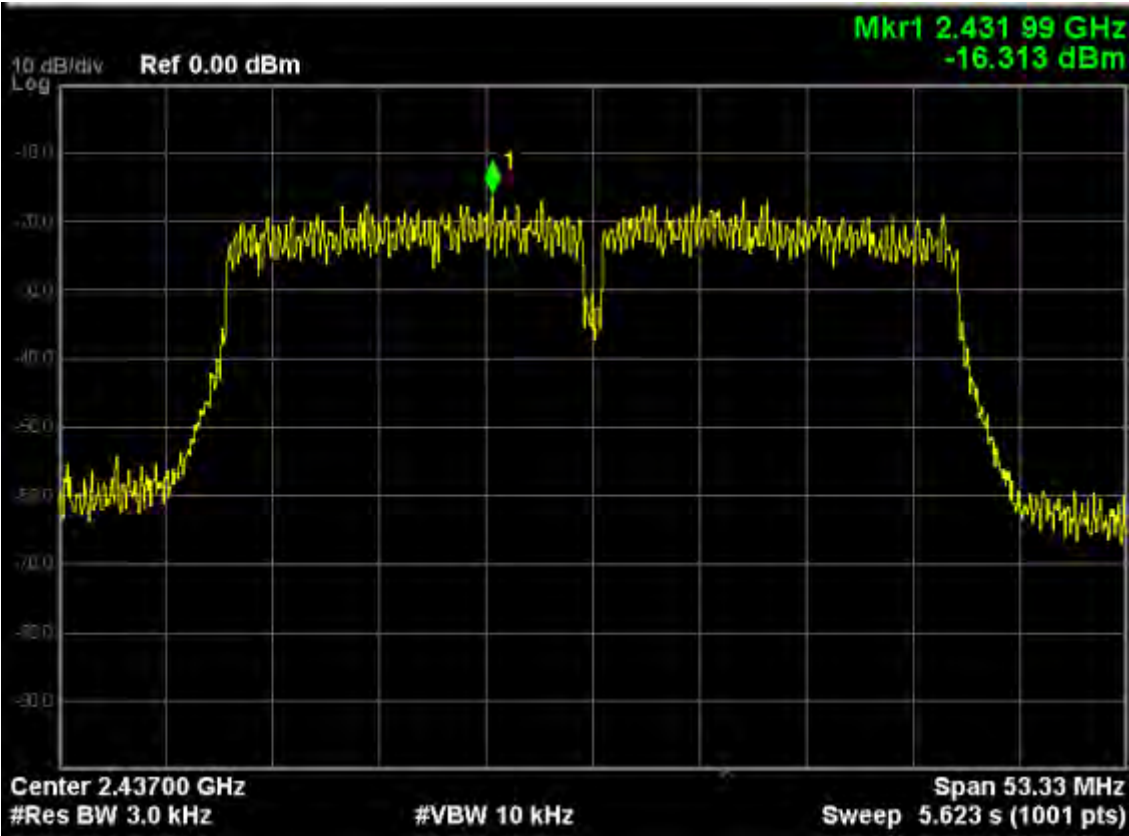
802.11n channel 11



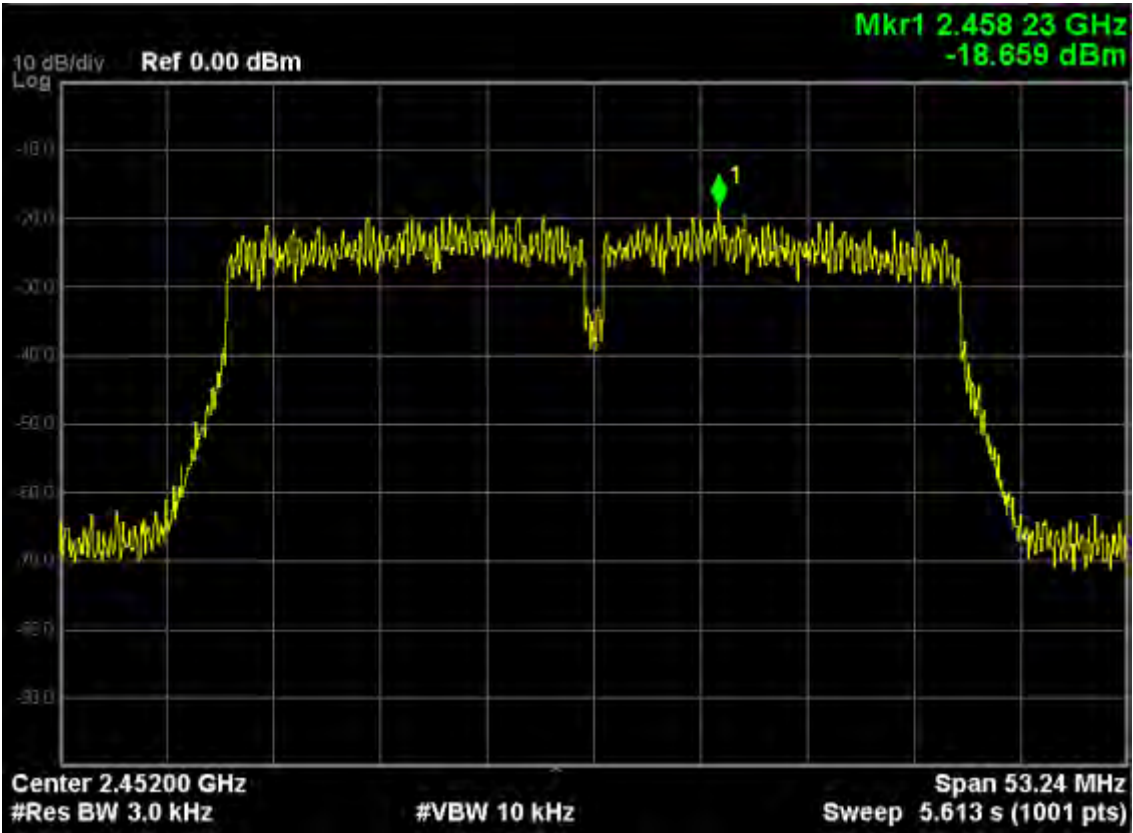
802.11n40
802.11n channel 3



802.11n channel 6

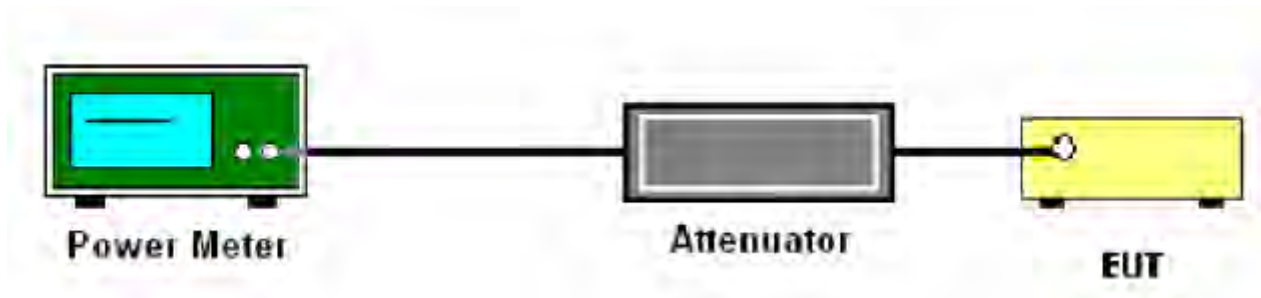


802.11n channel 9



7. PEAK OUTPUT POWER (CONDUCTION)

7.1 TEST SETUP



7.2 LIMITS

Limits	<30dBm
--------	--------

7.3 TEST PROCEDURE

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

The measurement will be conducted at three channels.

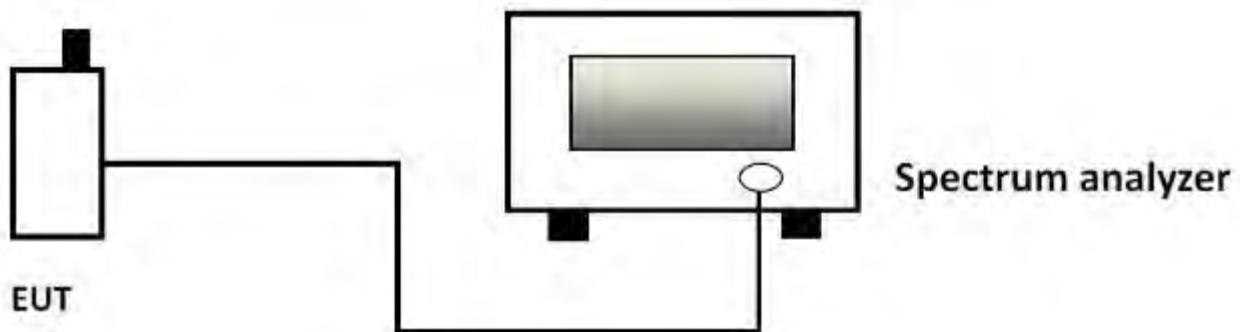
WIFI: Low(1), middle(6) and High (11).

7.4 RESULTS & PERFORMANCE

802.11b			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
1 (2412MHz)	17.3	30	12.7
6 (2437MHz)	17.8	30	12.2
11 (2462MHz)	17.5	30	12.5
802.11g			
Channel	Peak power (dBm)11.4	Limit (dBm)	Margin (dB)
1 (2412MHz)	16.3	30	13.7
6 (2437MHz)	16.4	30	13.6
11 (2462MHz)	16.6	30	13.4
802.11n20			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
1 (2412MHz)	15.4	30	14.6
6 (2437MHz)	15.8	30	14.2
11 (2462MHz)	15.5	30	14.5
802.11n40			
Channel	Peak power (dBm)	Limit (dBm)	Margin (dB)
3 (2422MHz)	14.6	30	15.4
6 (2437MHz)	14.8	30	15.2
9 (2452MHz)	14.4	30	15.6

8. SPURIOUS EMISSIONS (CONDUCTION)

8.1 TEST SETUP



8.2 LIMITS

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

8.3 TEST PROCEDURE

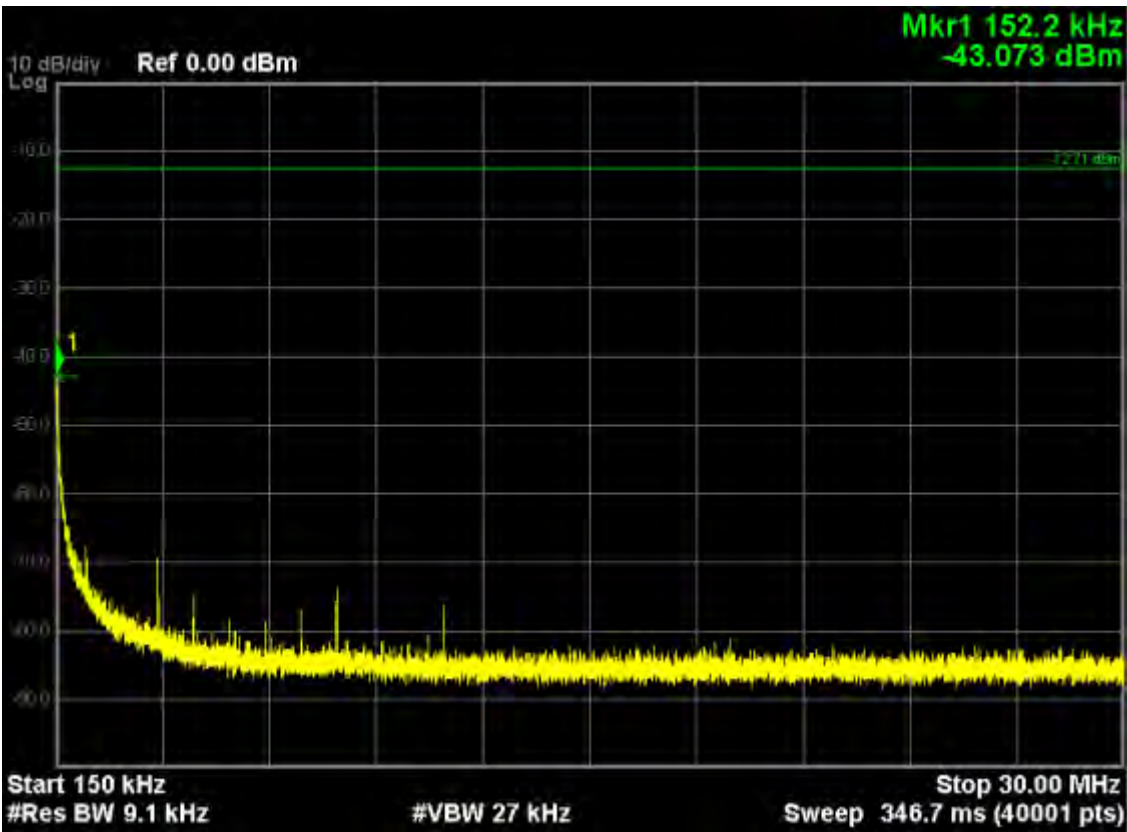
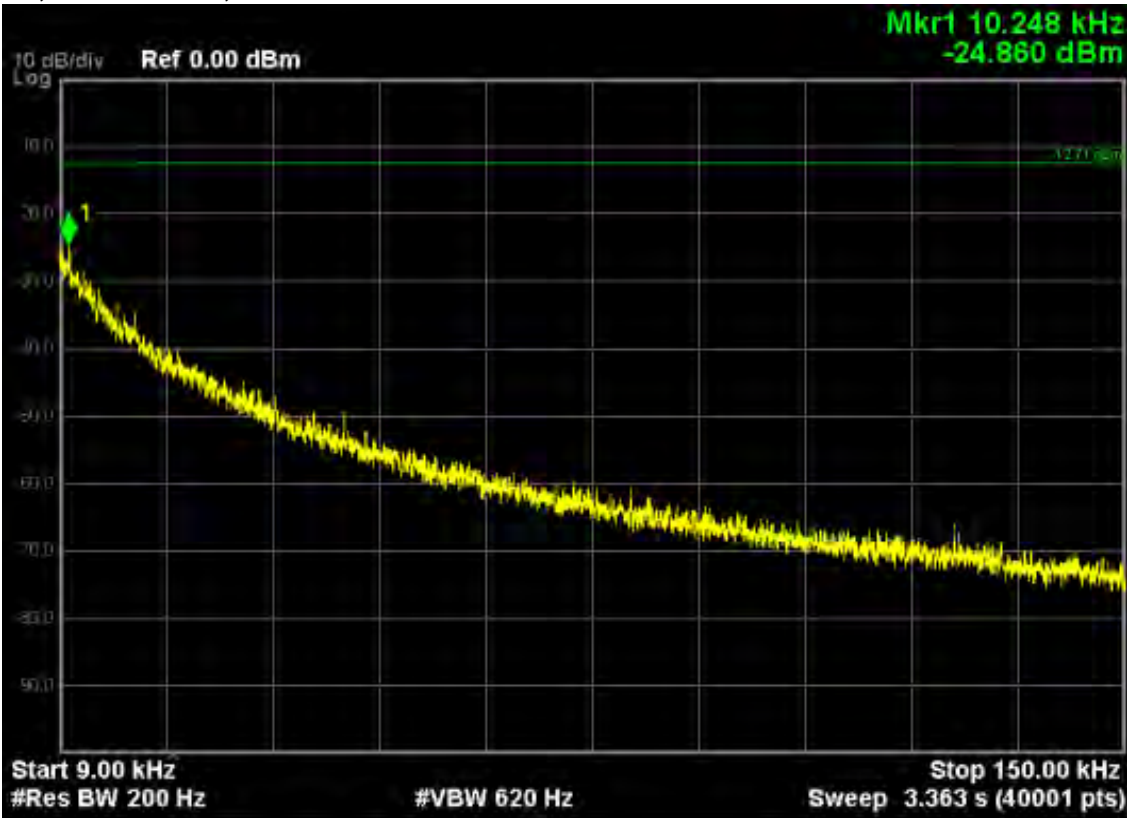
The EUT was connected to Spectrum Analyzer and Base Station via power divider. Use the following spectrum analyzer settings:

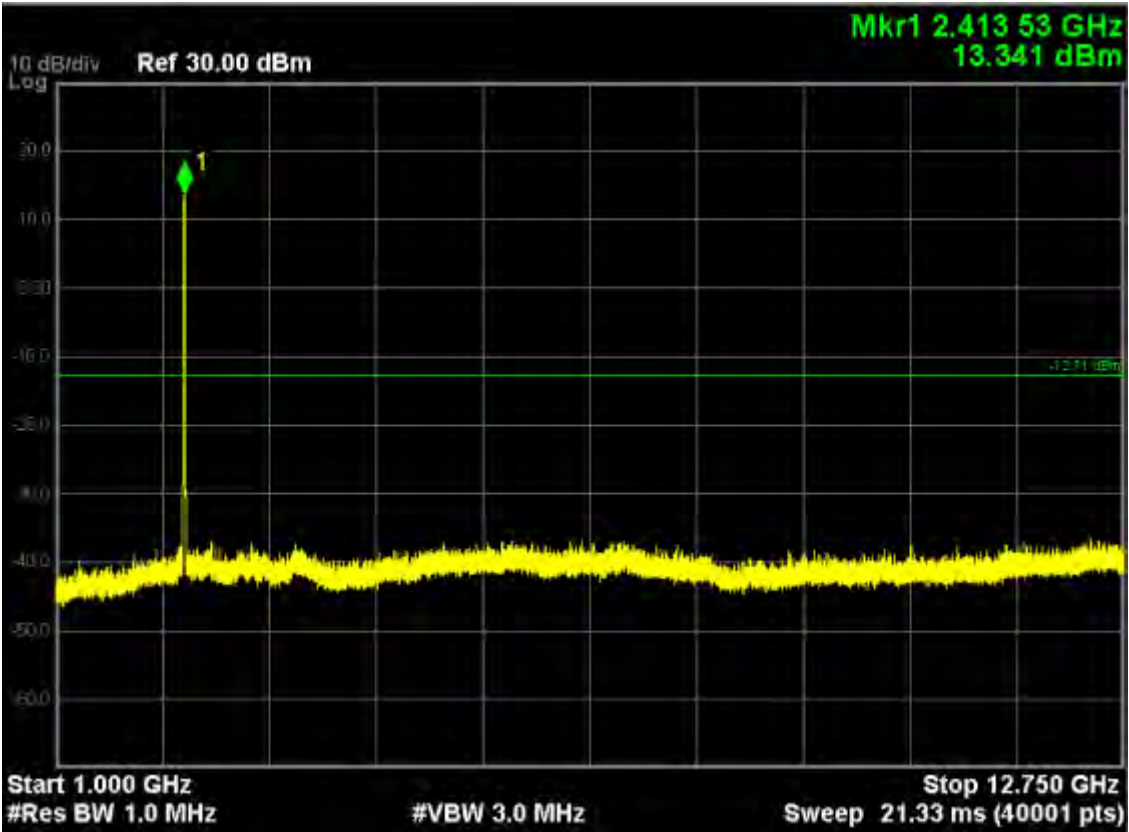
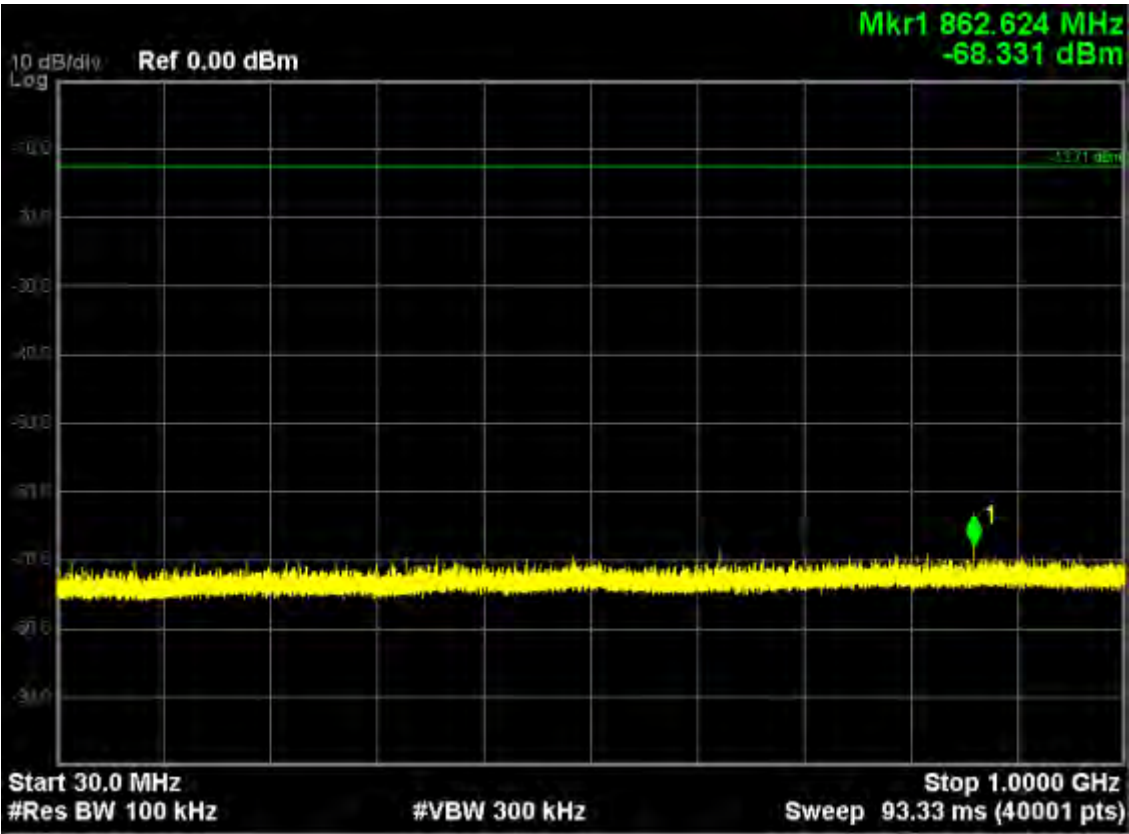
Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold
Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

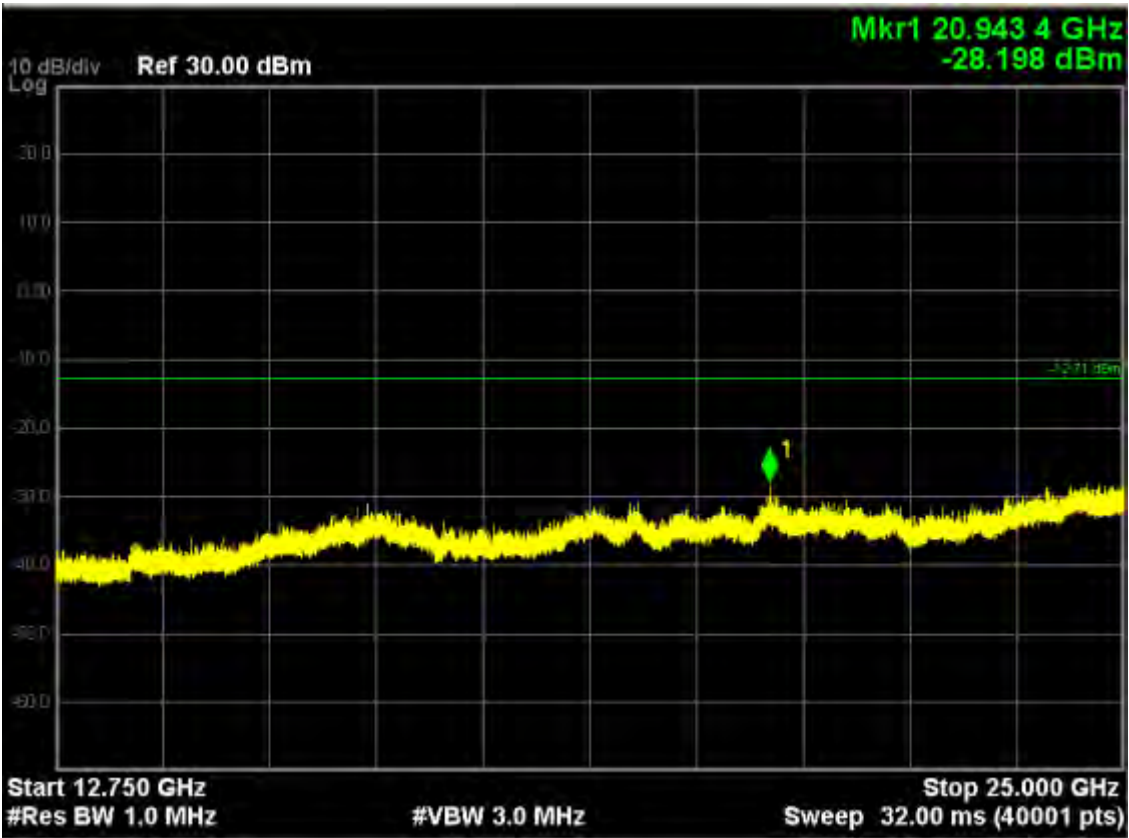
8.4 RESULTS & PERFORMANCE

802.11b, traffic mode; Channel 1

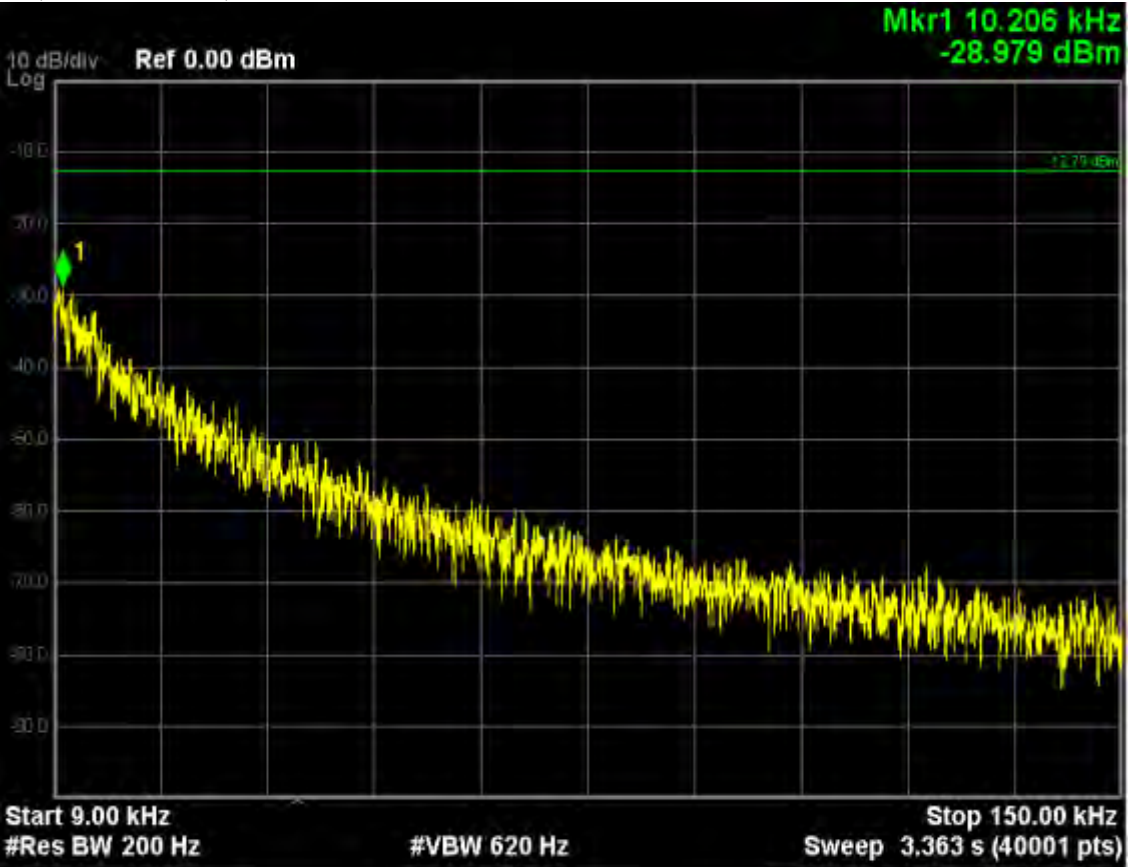


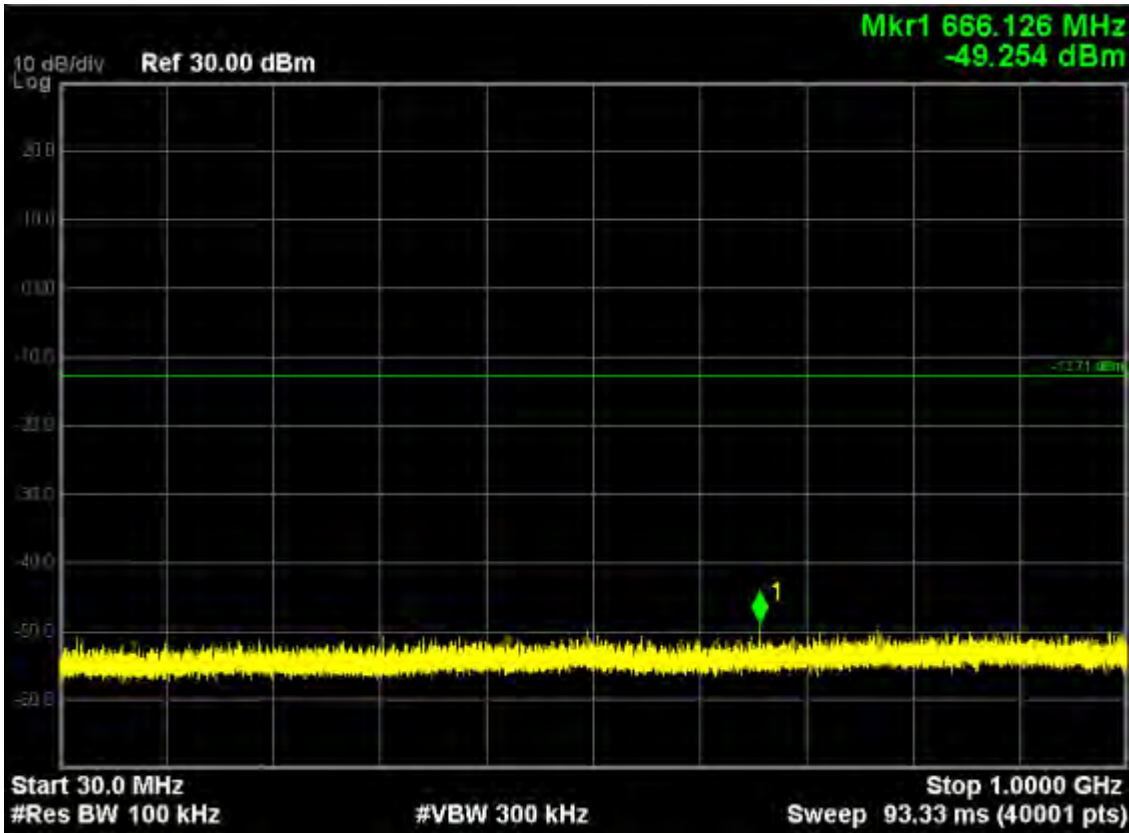
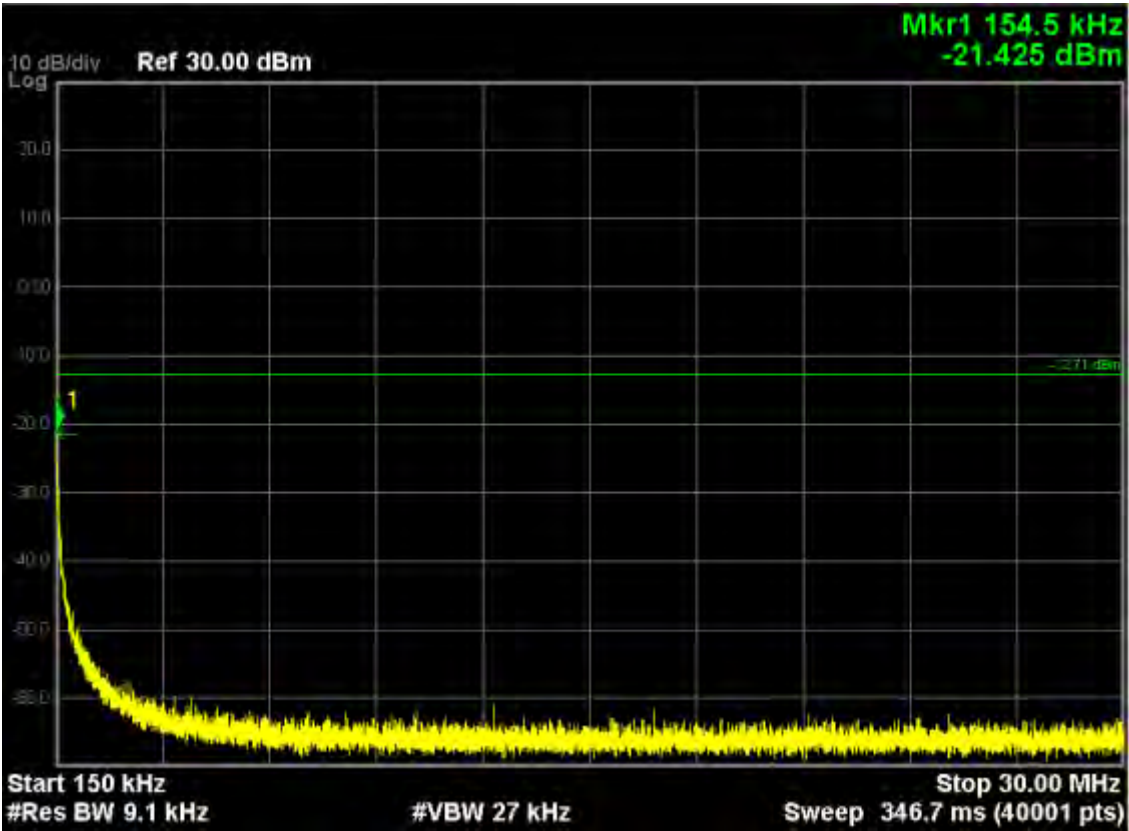


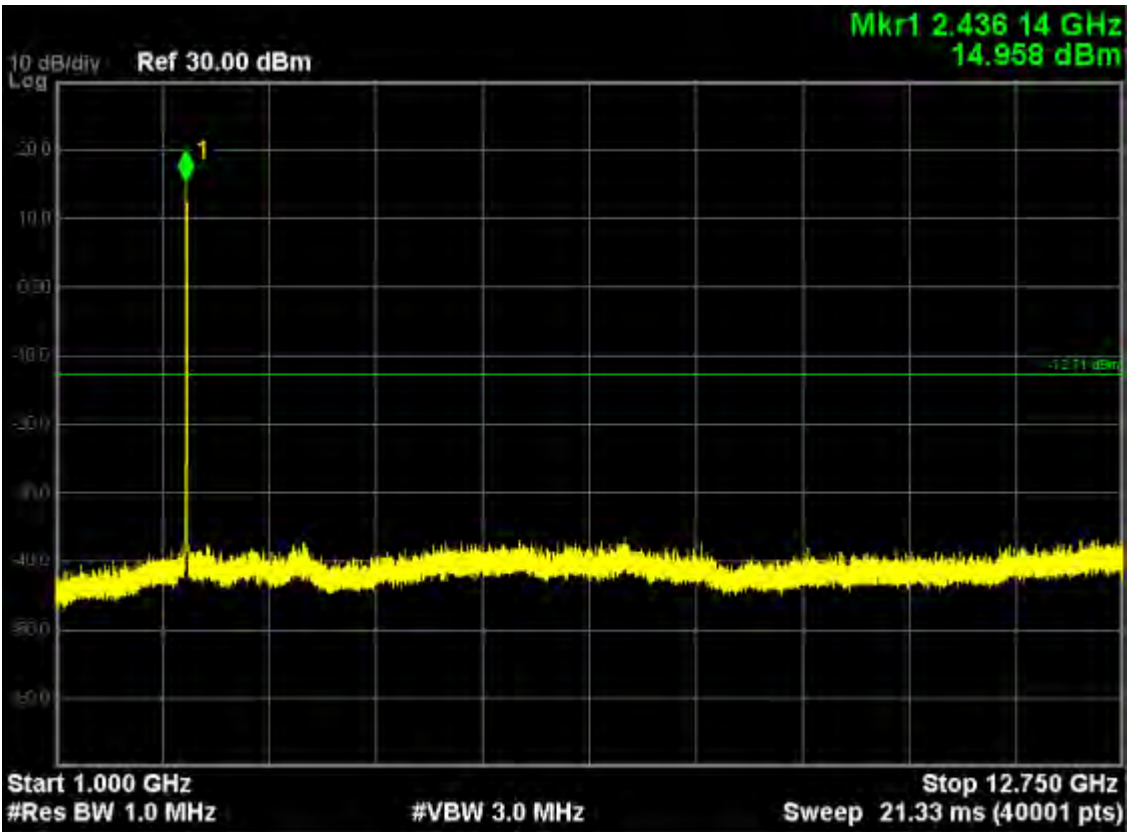
Note: The point mark1 is carrier.



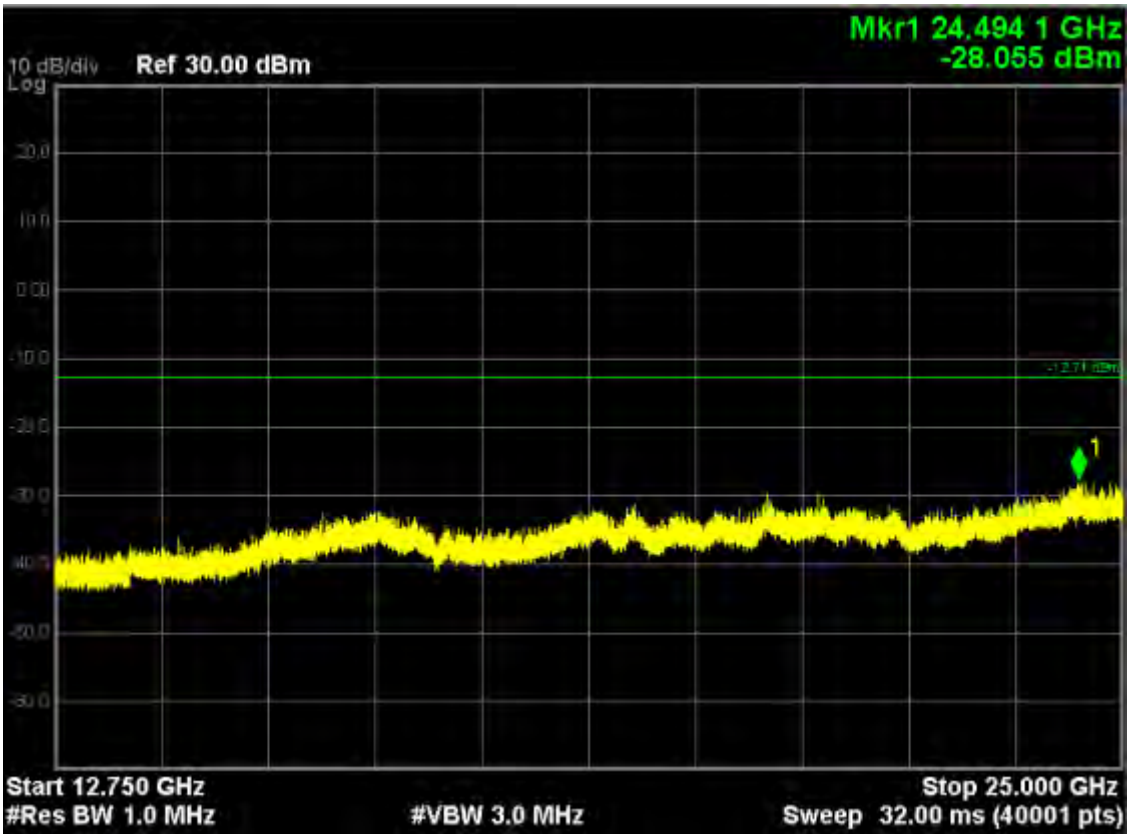
802.11b, traffic mode; Channel 6



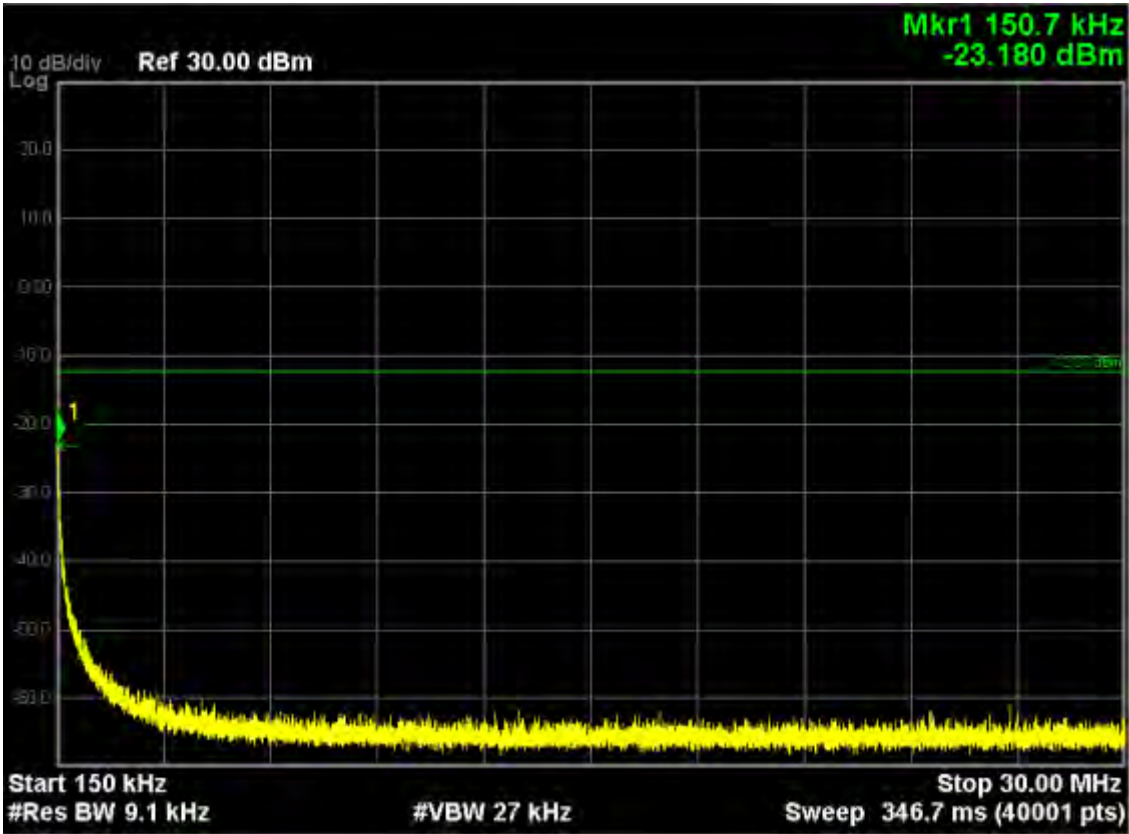
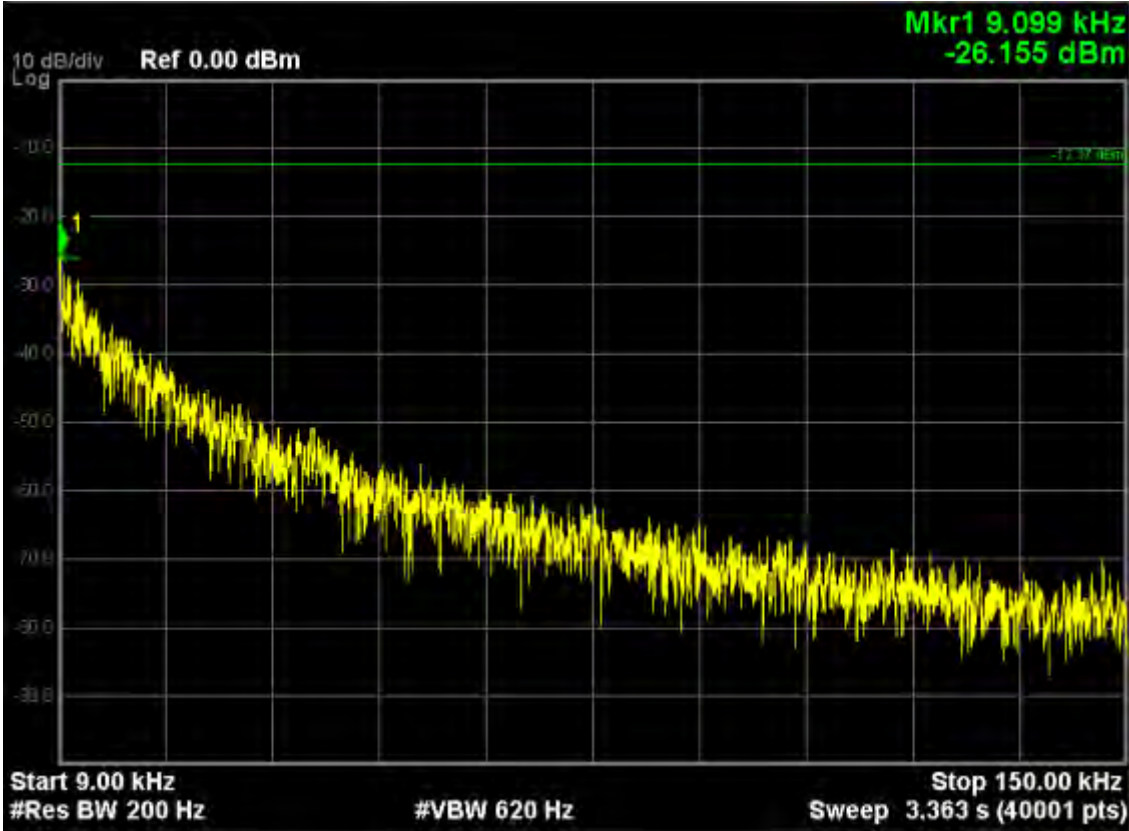


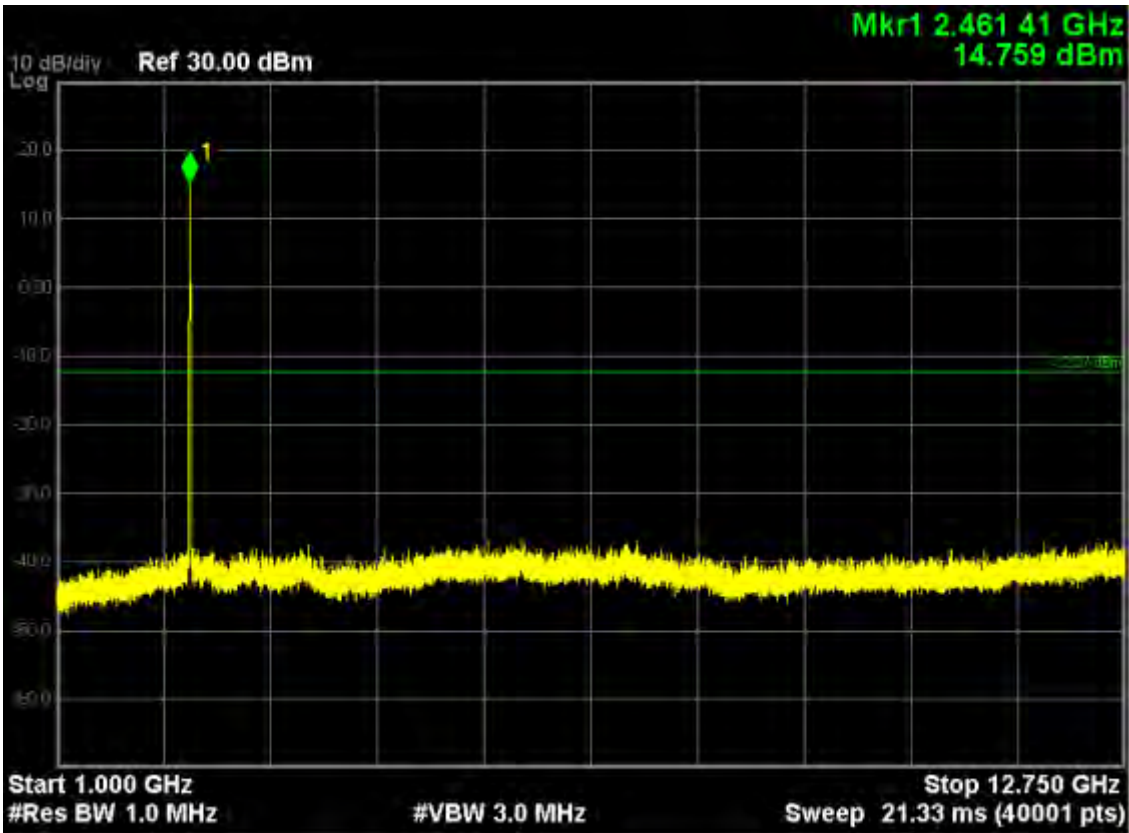
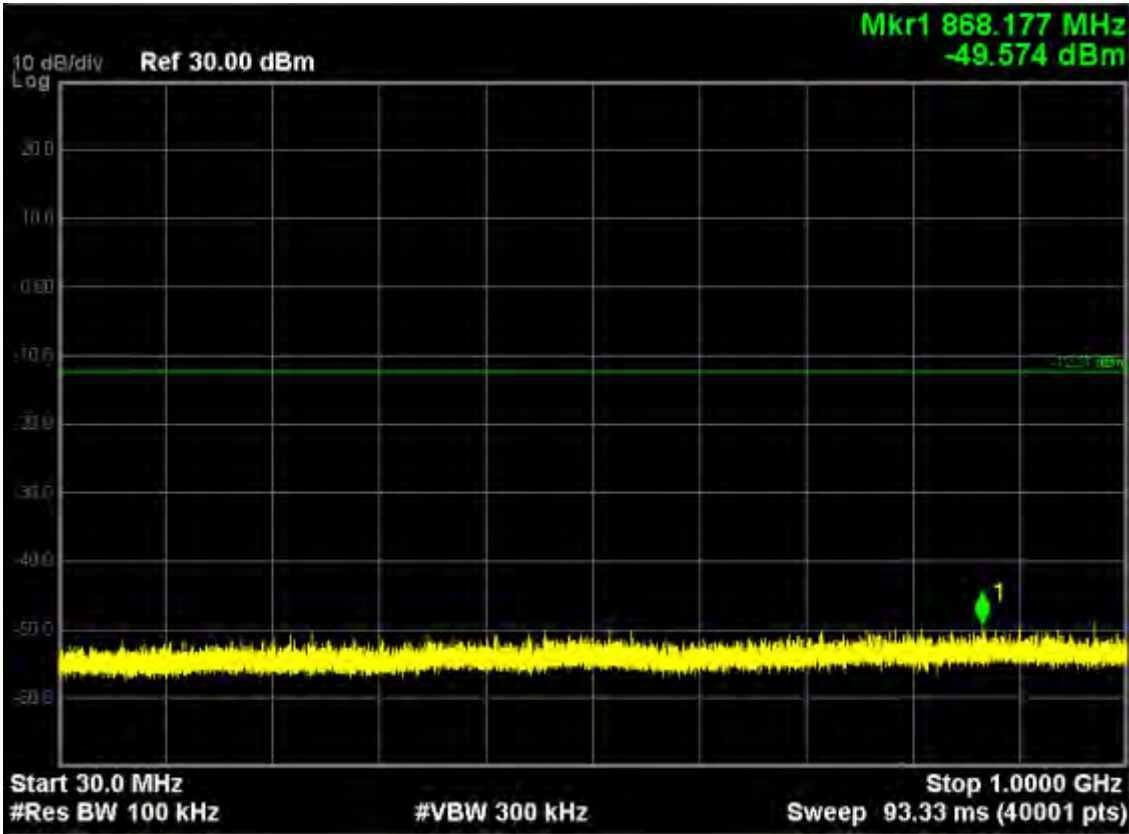


Note: The Mark1 point is carrier.

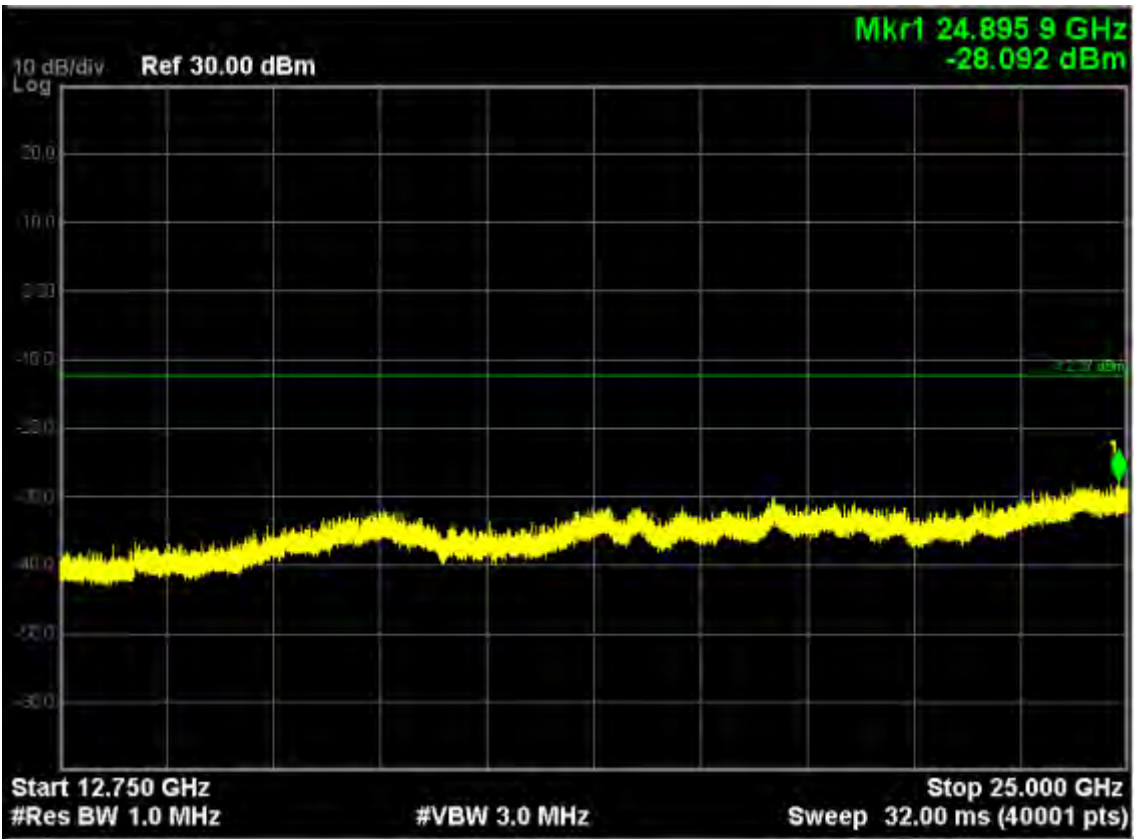


802.11b, traffic mode; Channel 11

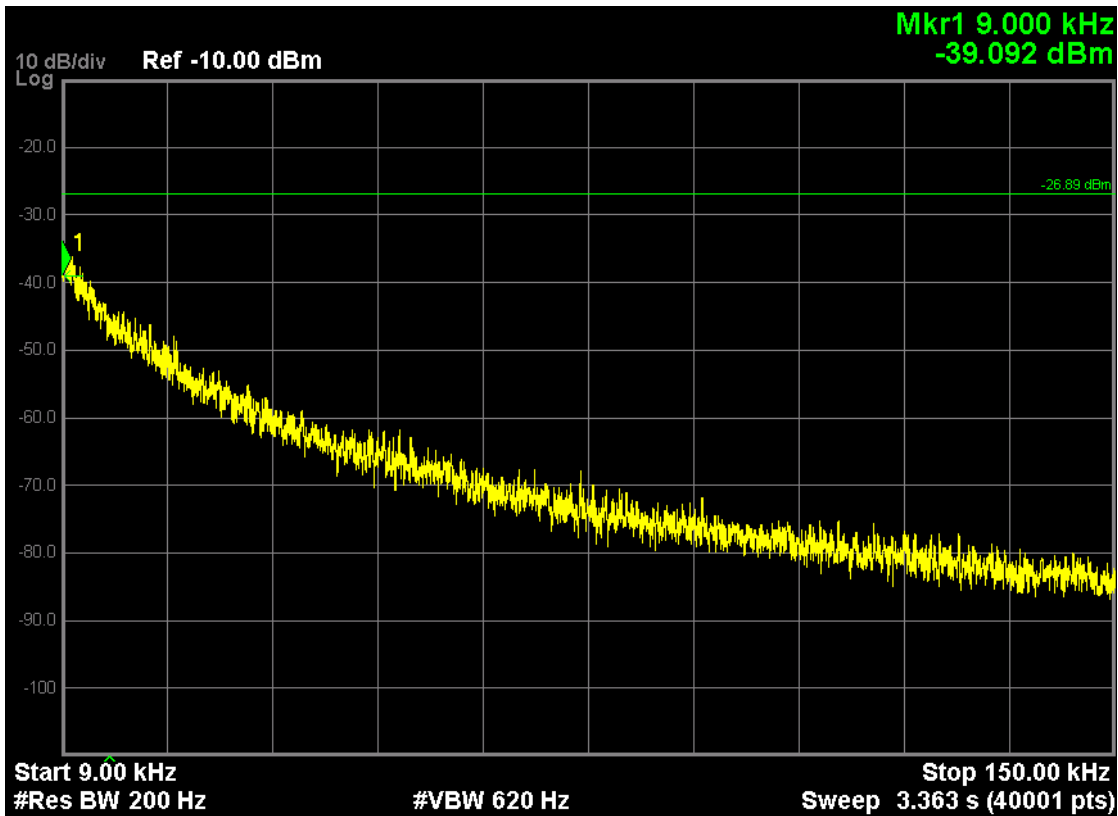


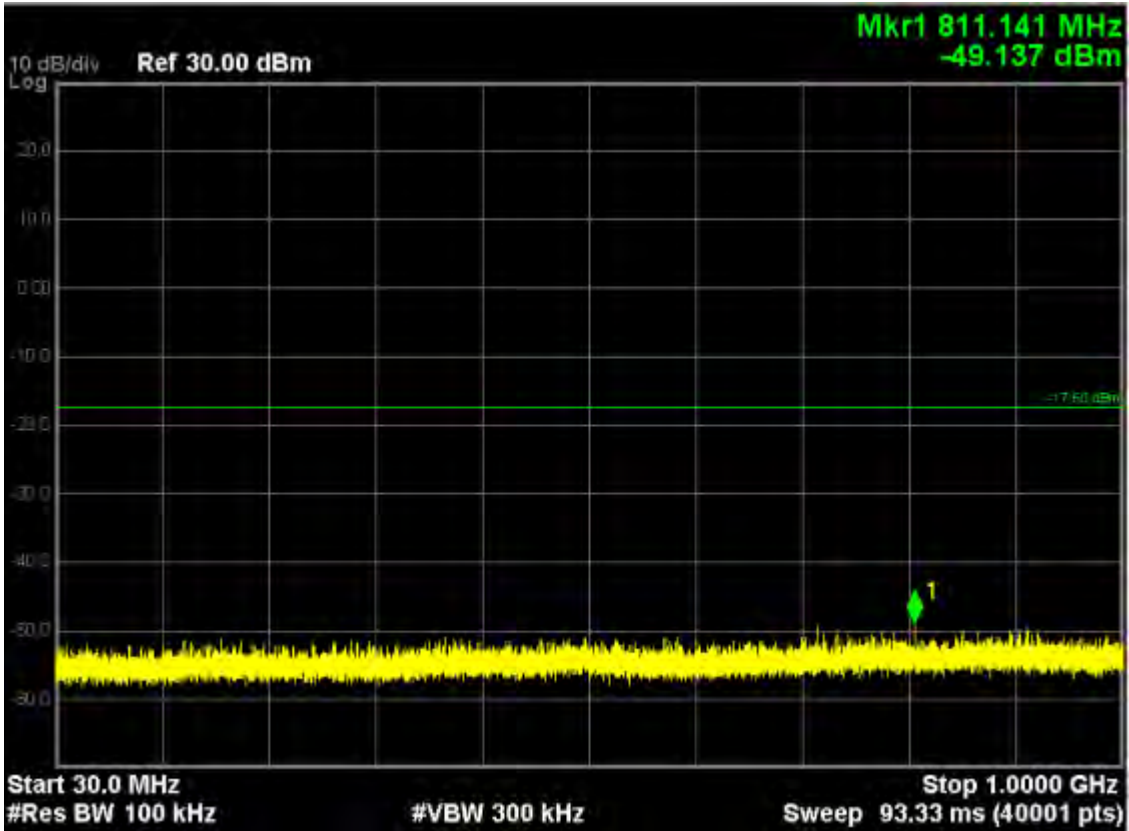
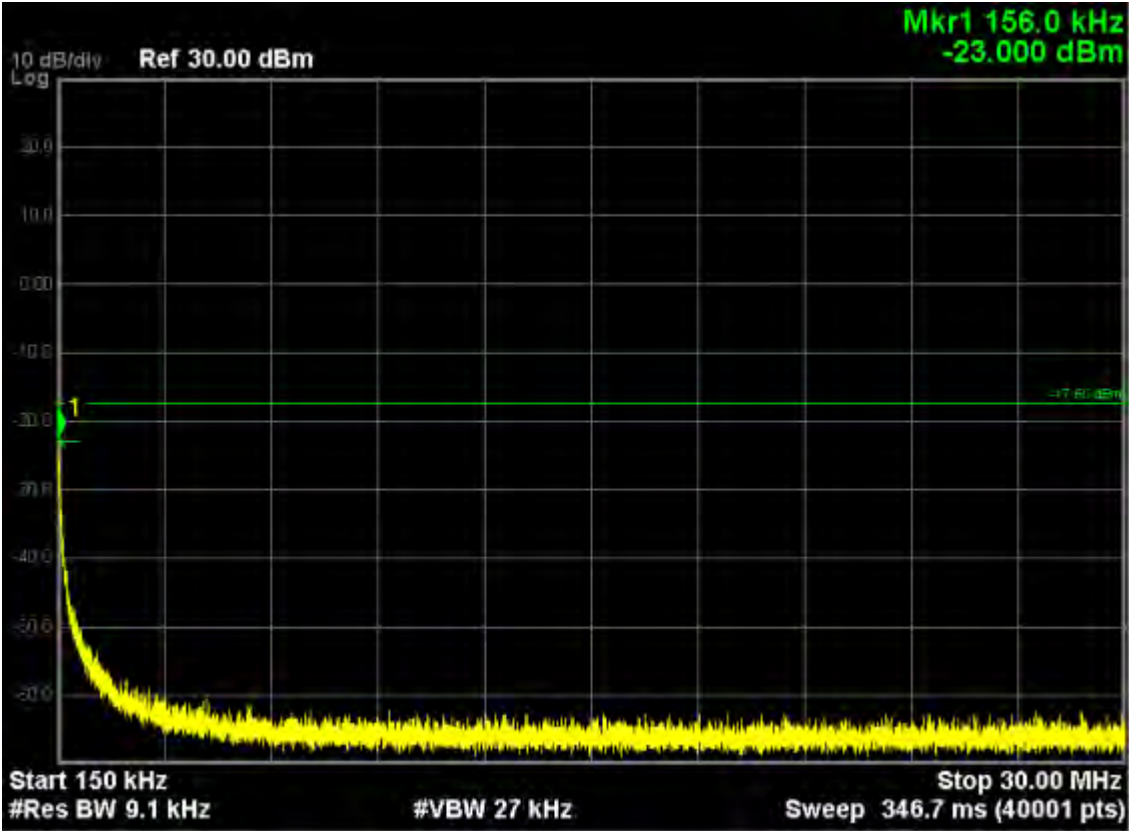


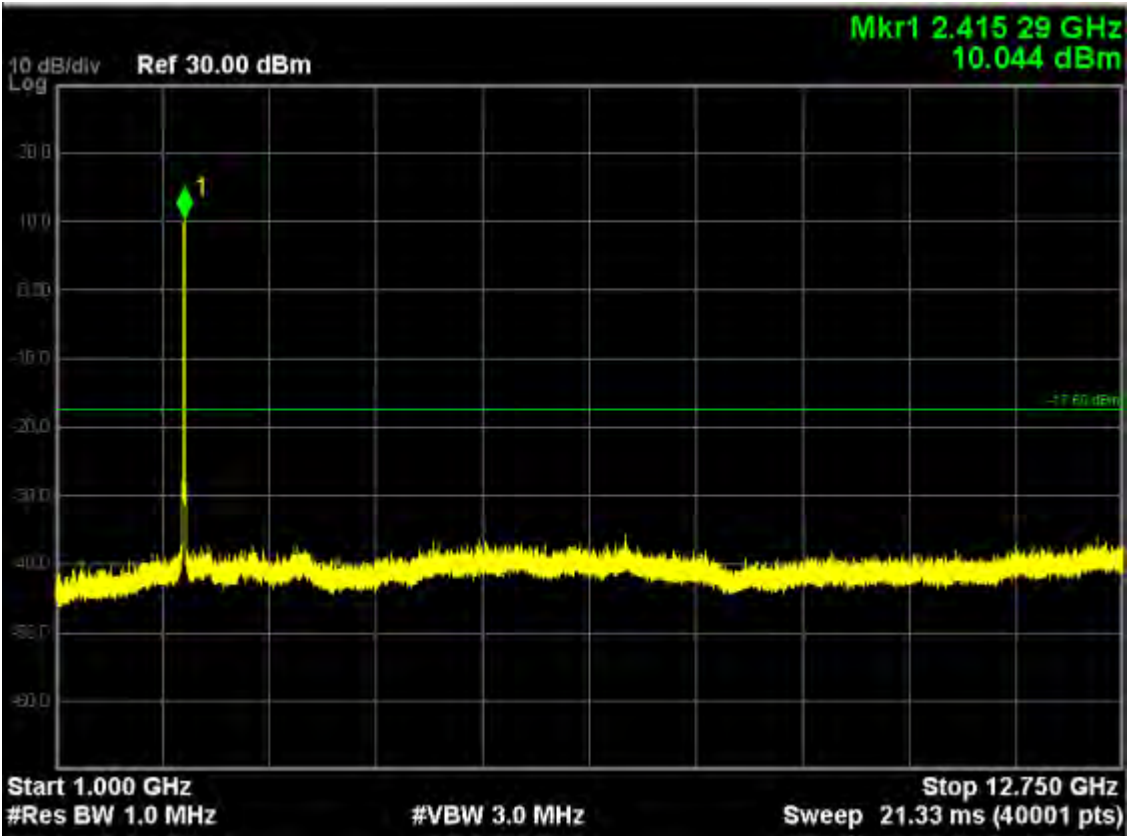
Note: The Mark1 point is carrier.



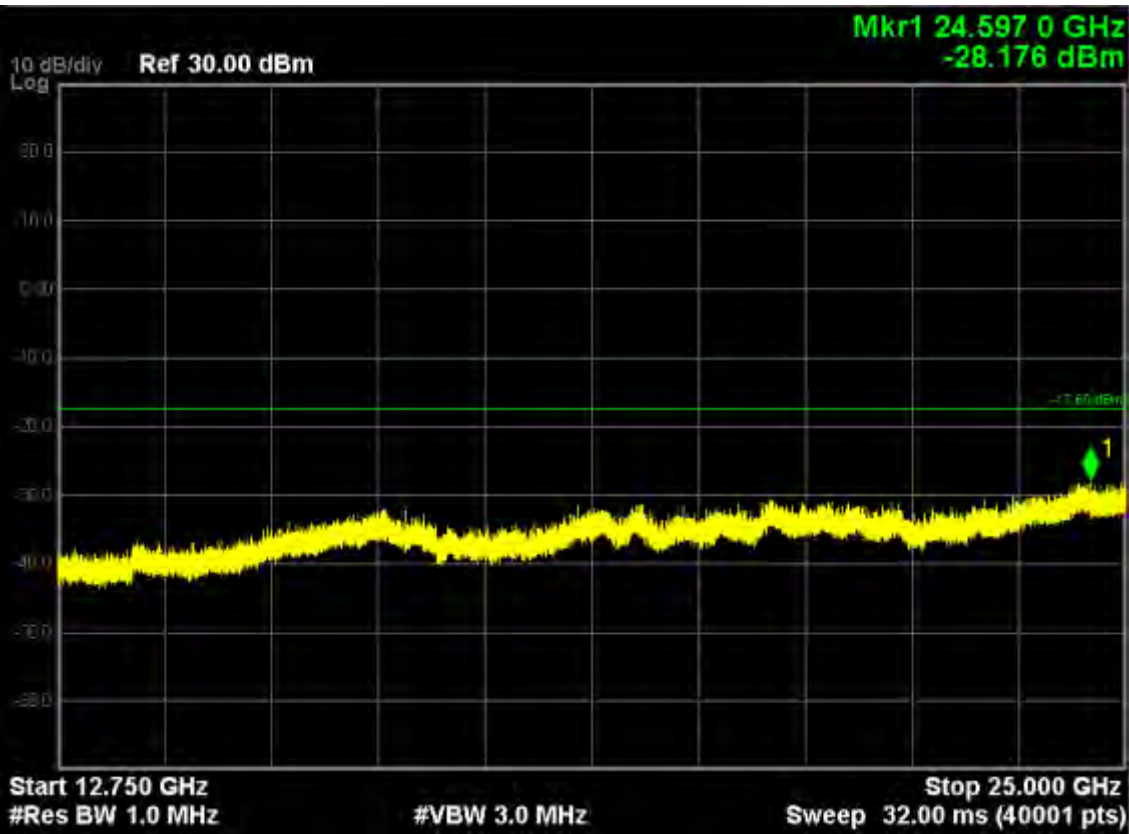
802.11g, traffic mode; Channel 1



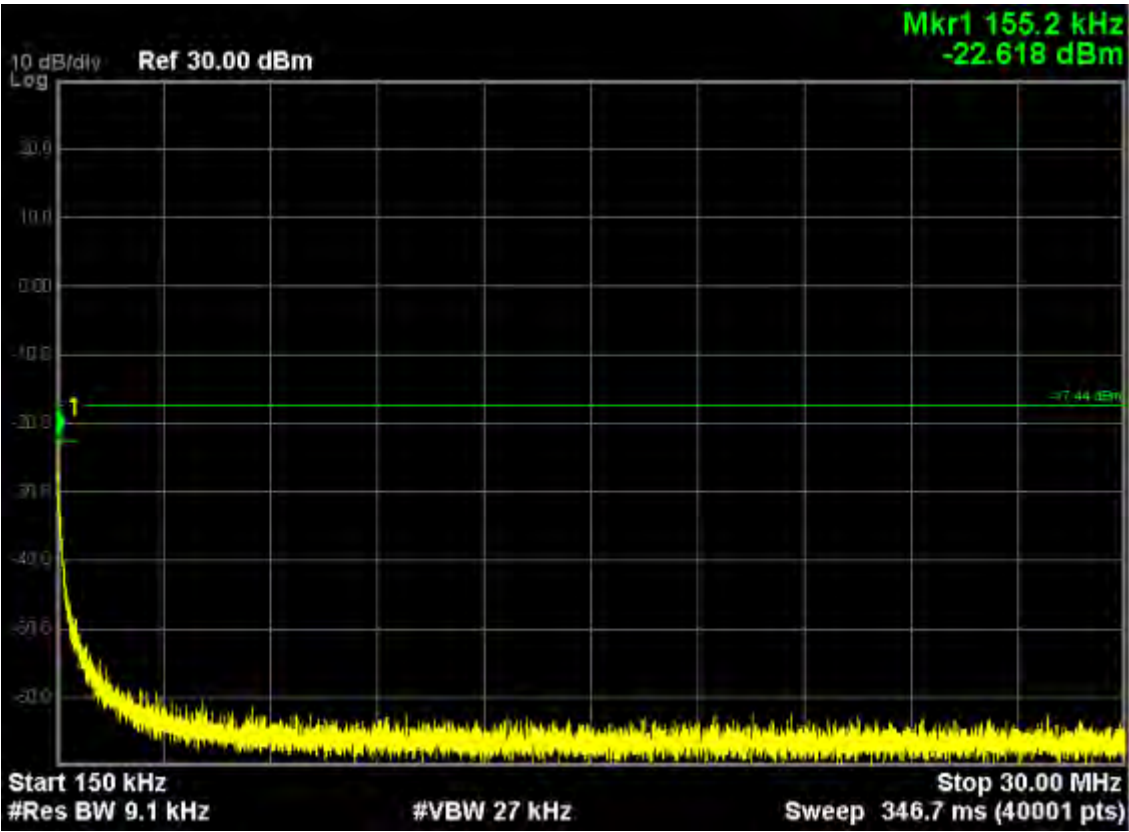
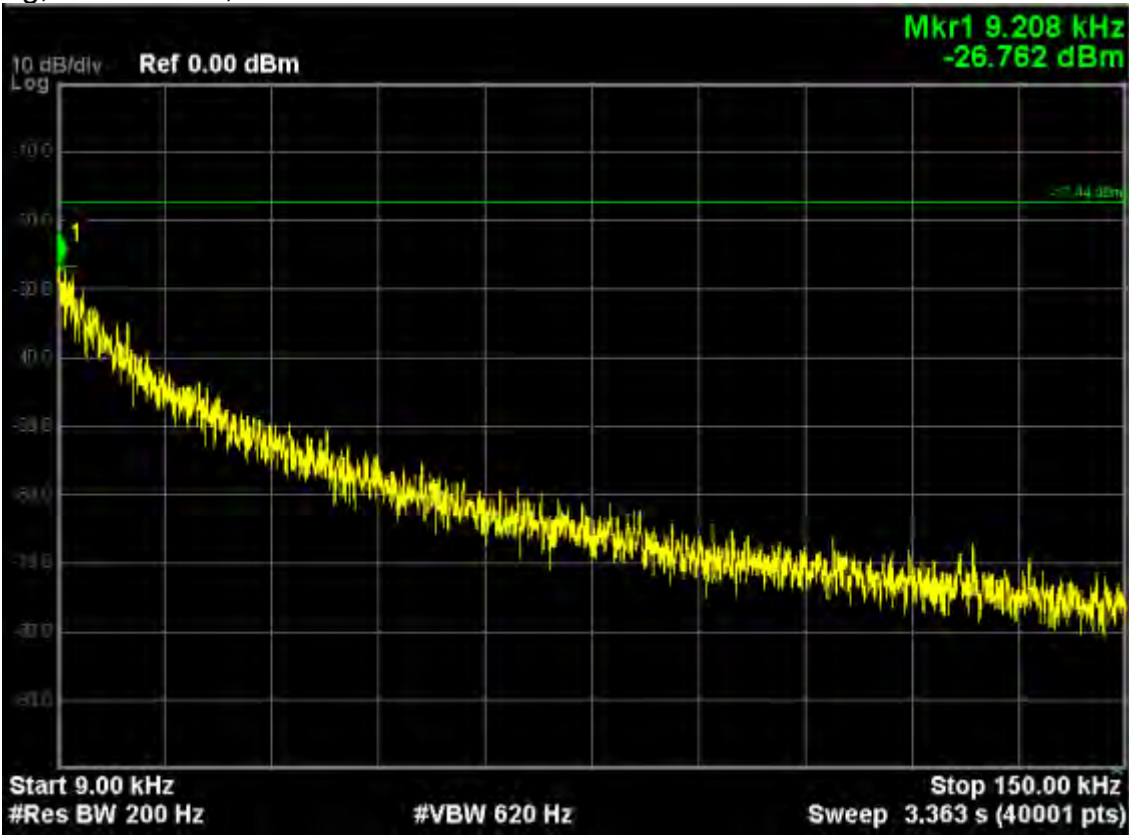


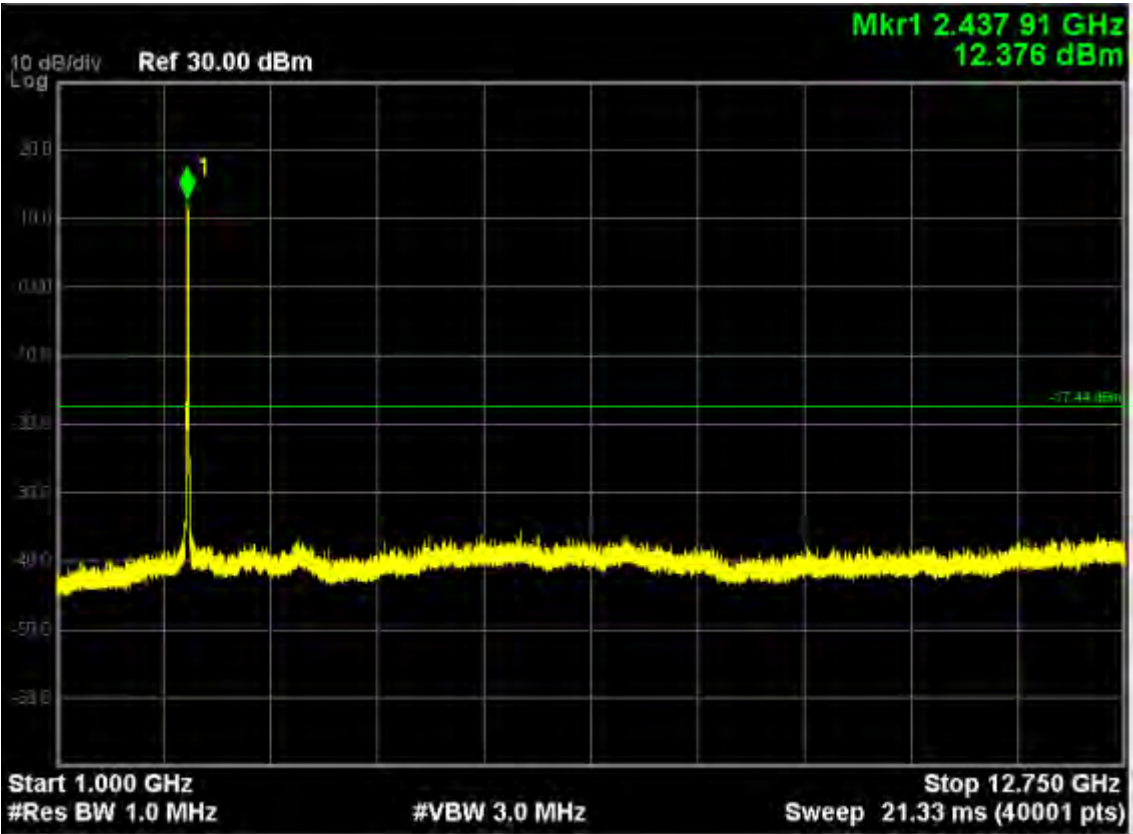
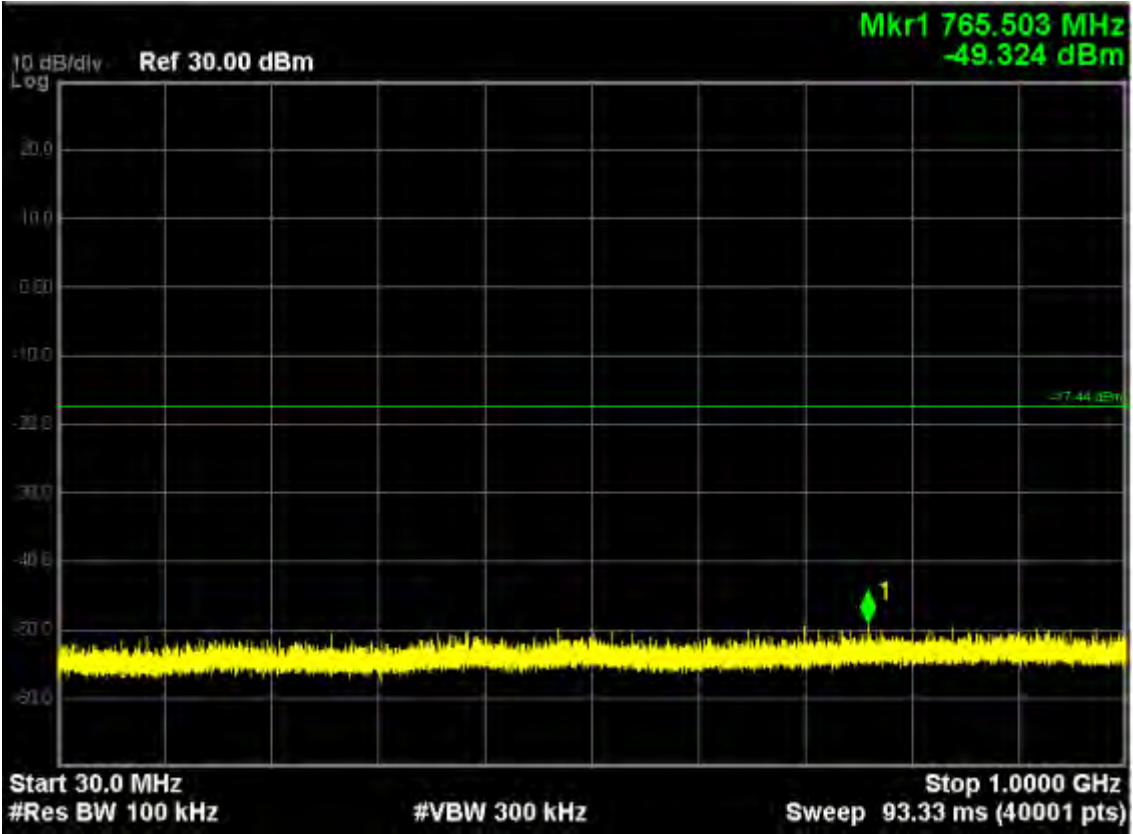


Note: The Mark1 point is carrier.

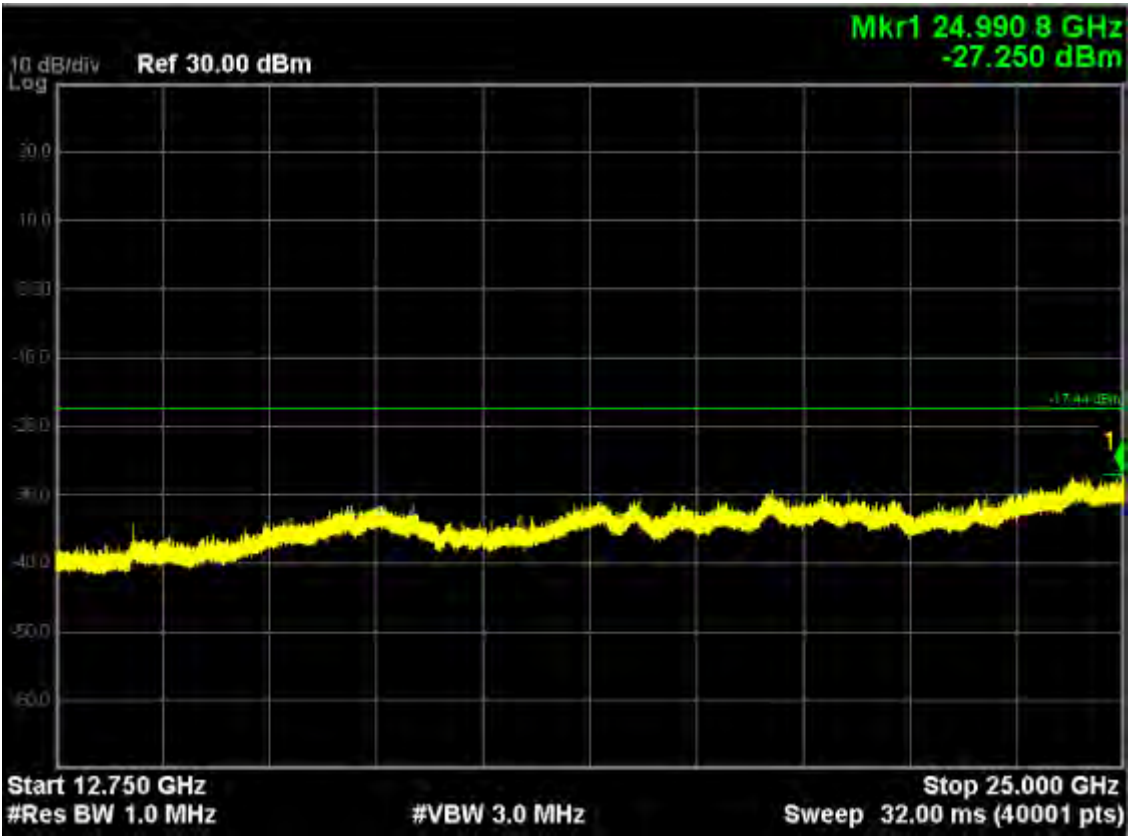


802.11g, traffic mode; Channel 6

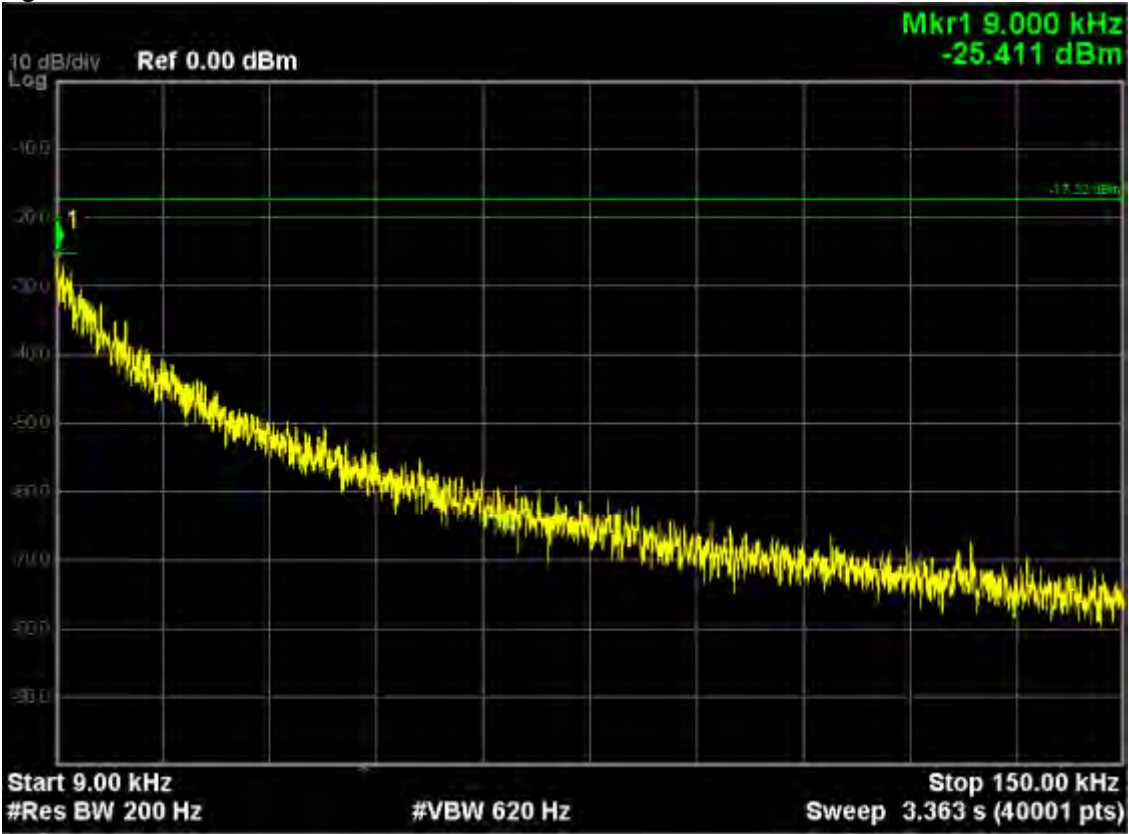


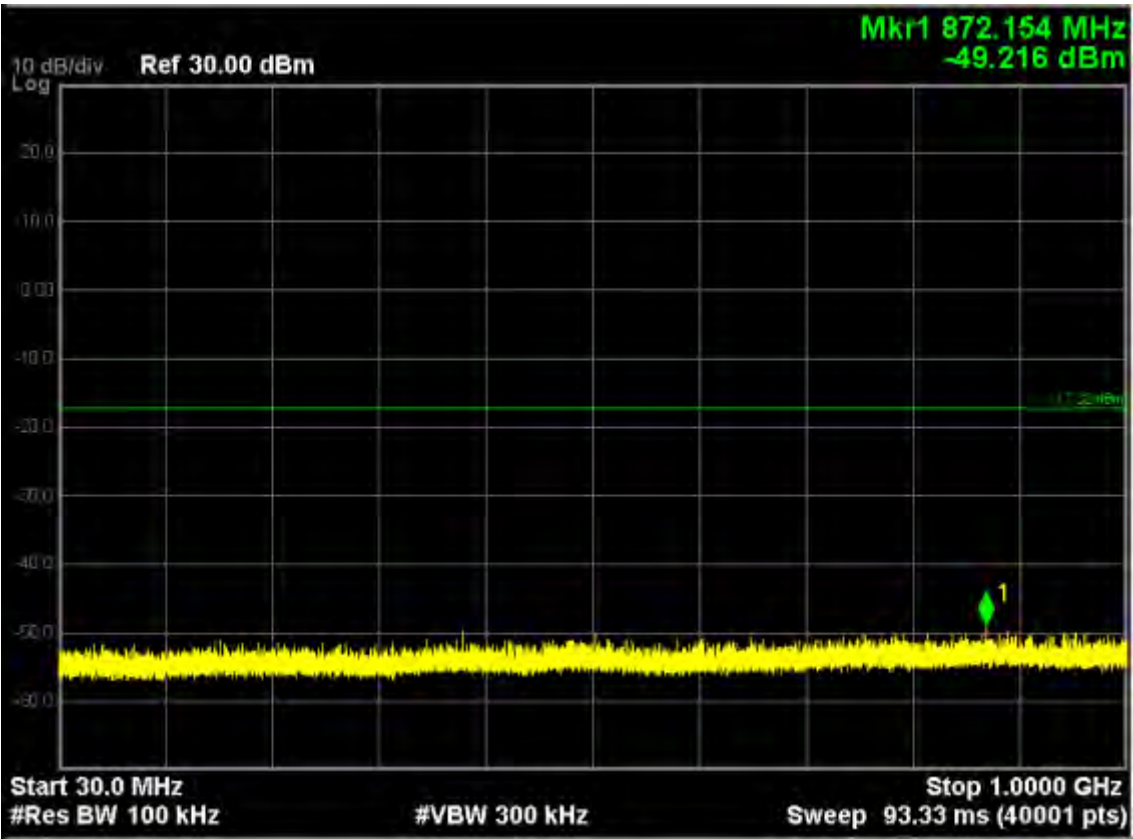
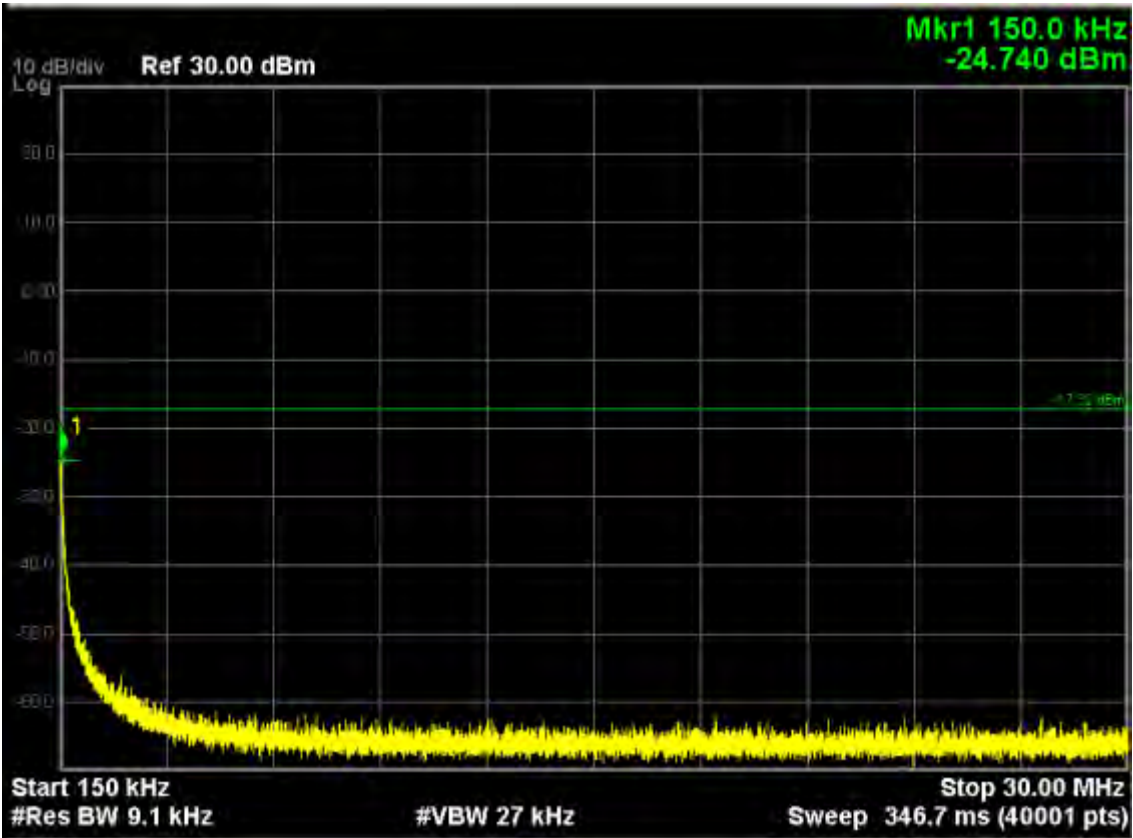


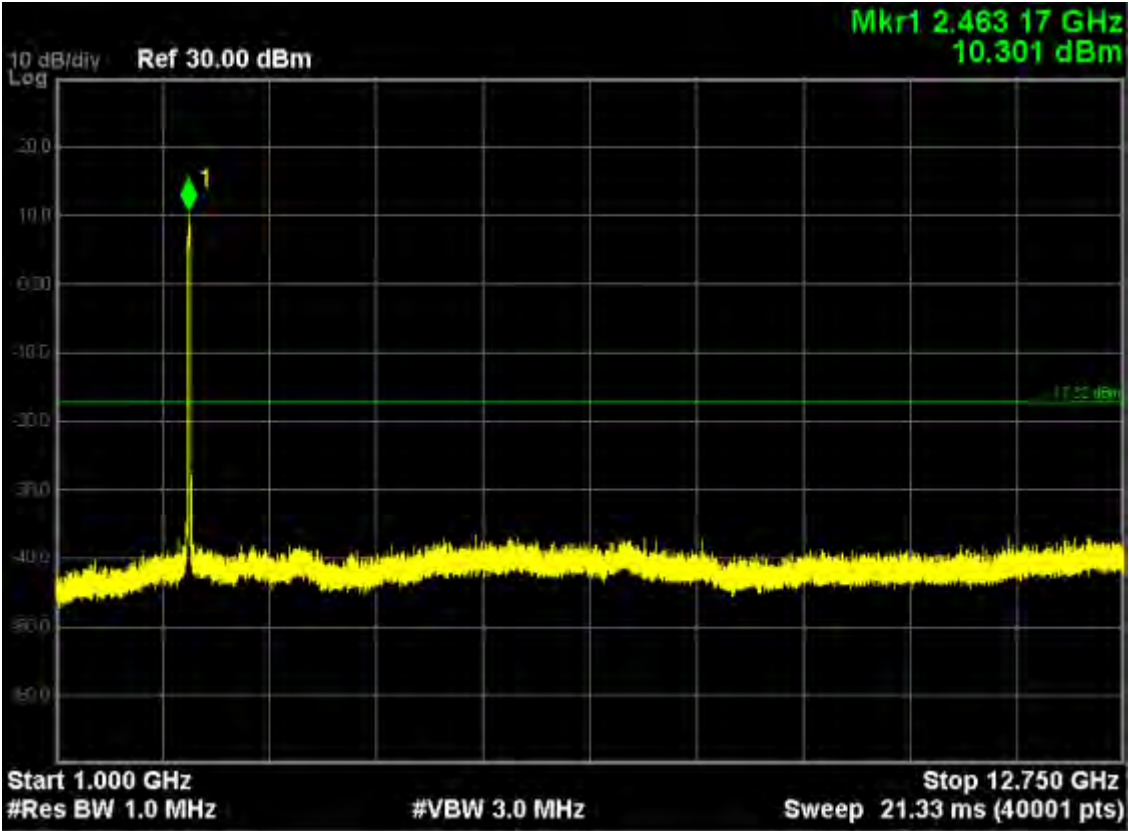
Note: The Mark1 point is carrier.



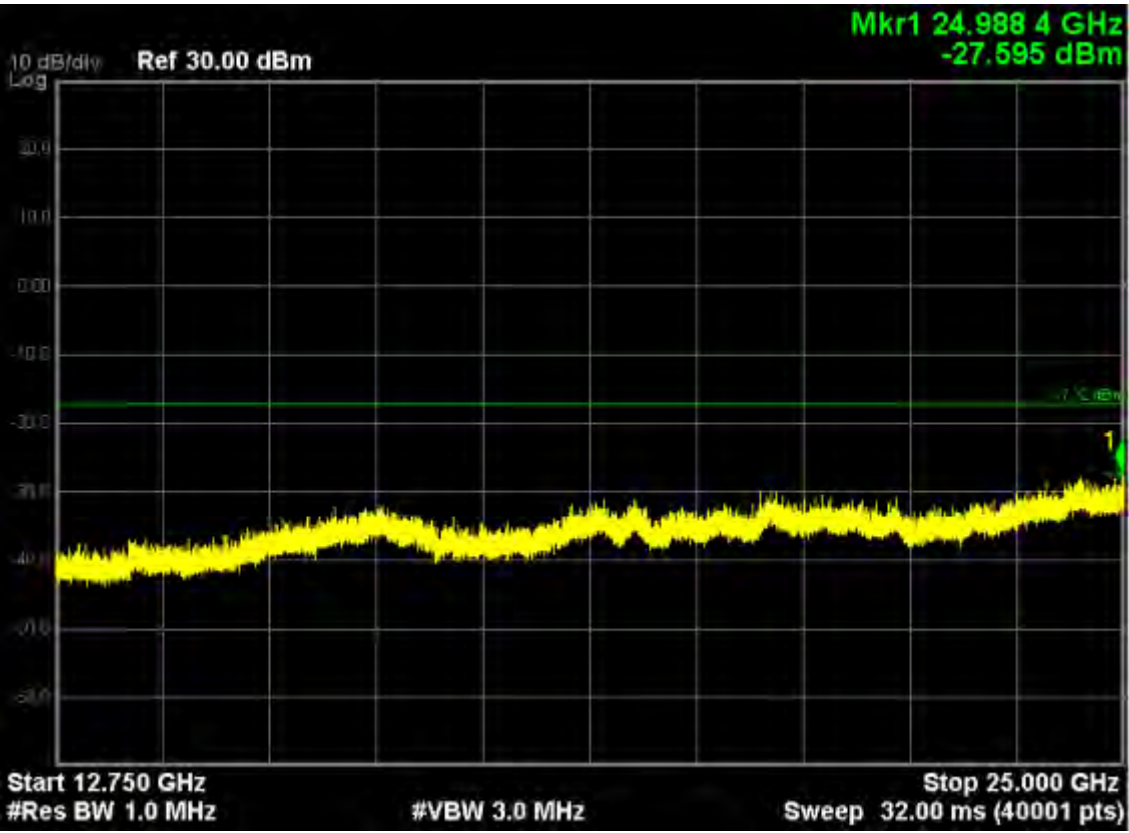
802.11g, traffic mode; Channel 11



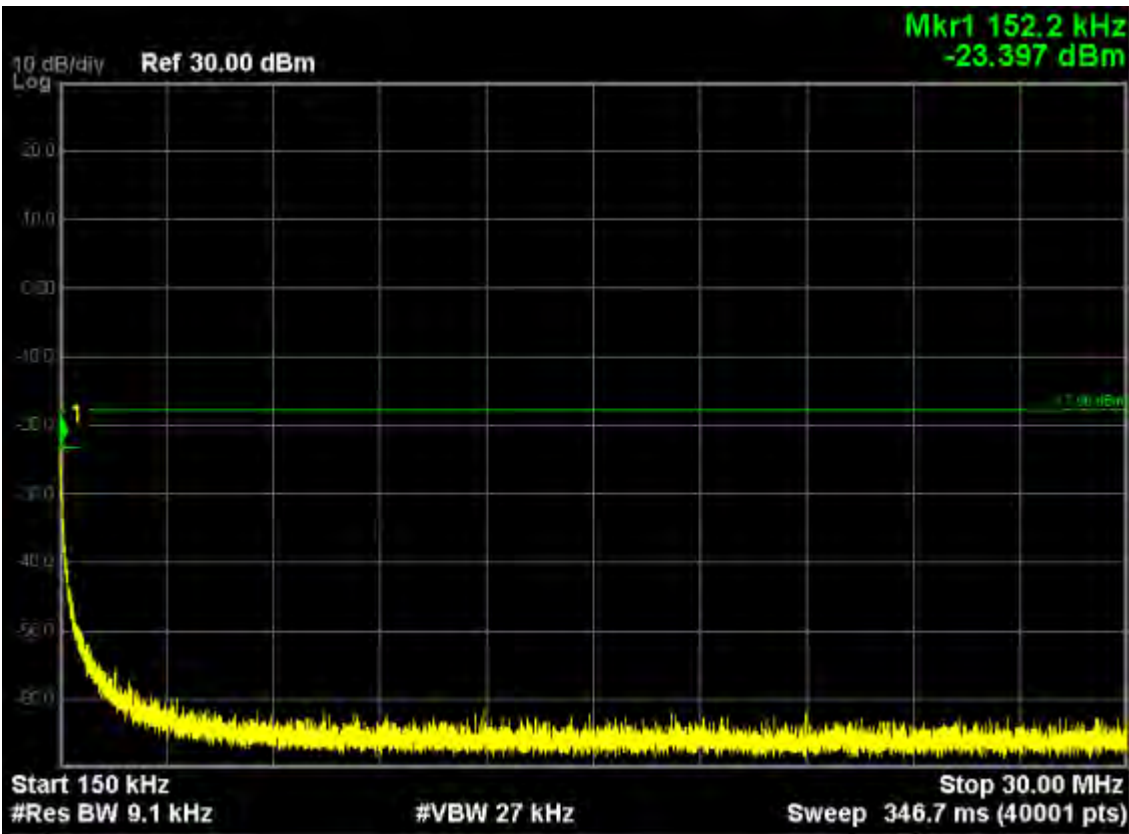
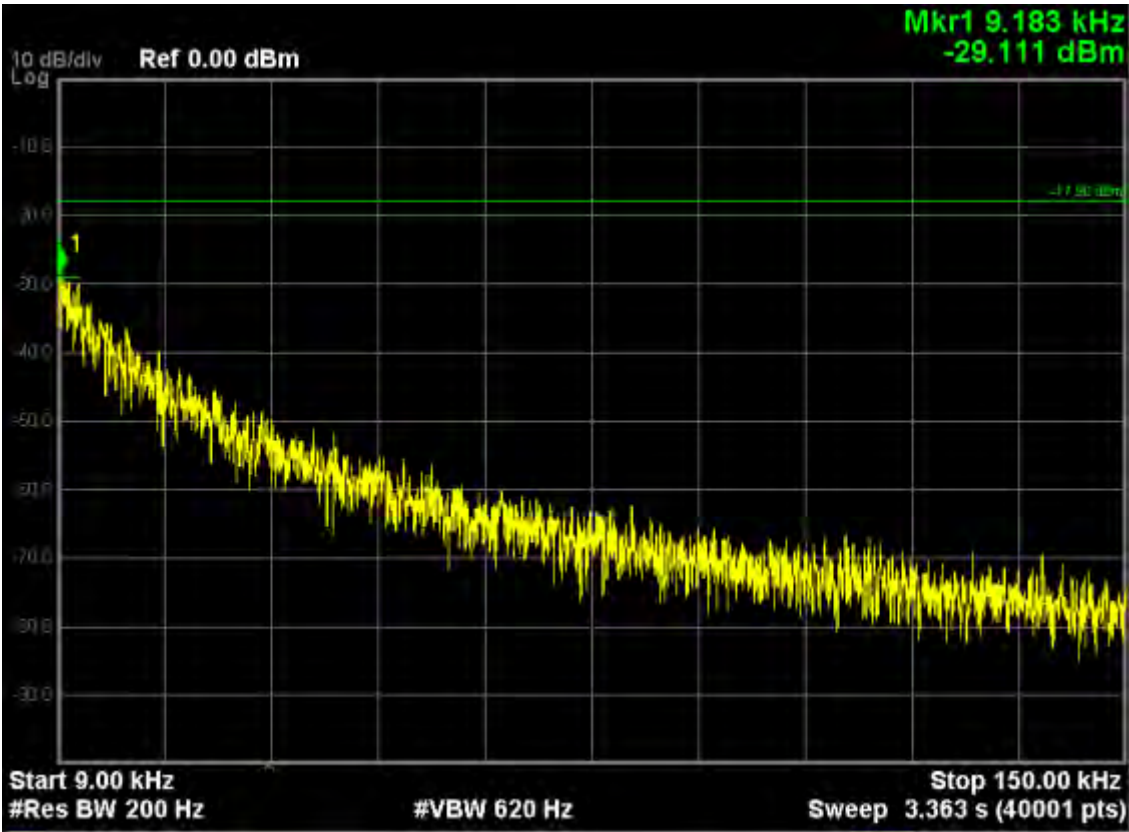


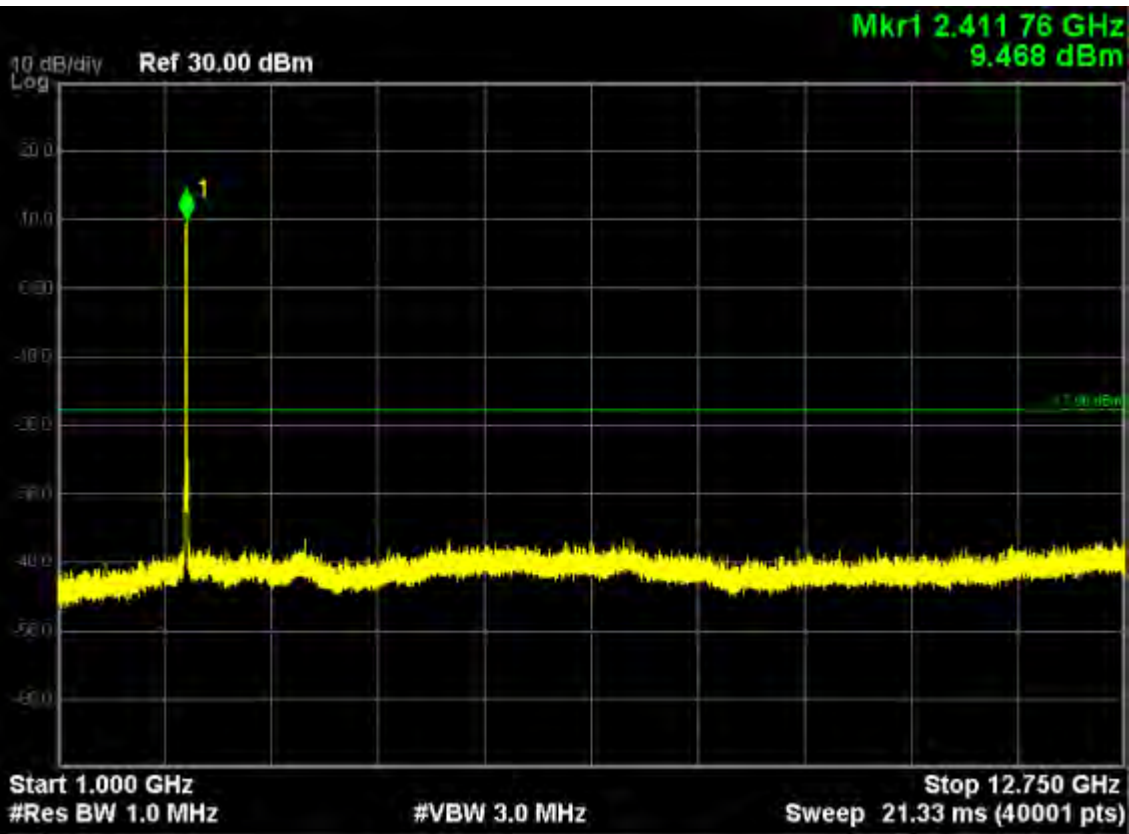
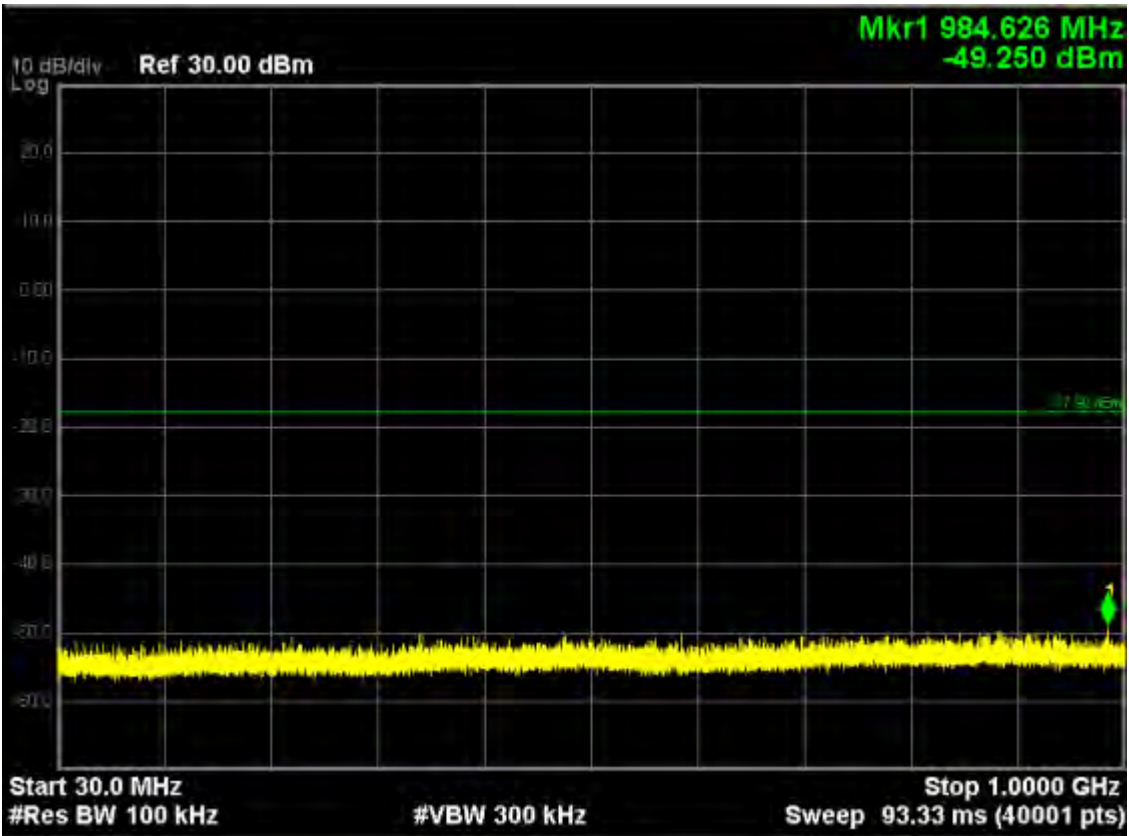


Note: The Mark1 point is carrier

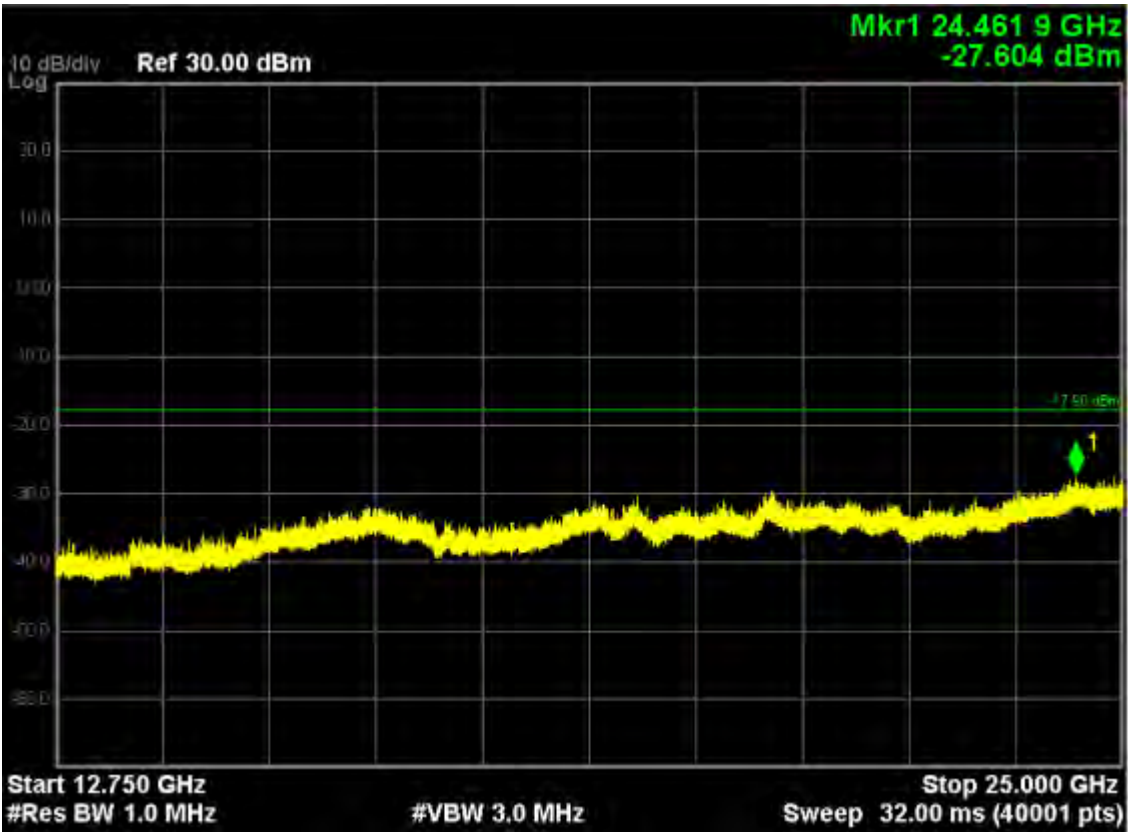


802.11n20, traffic mode; Channel 1;

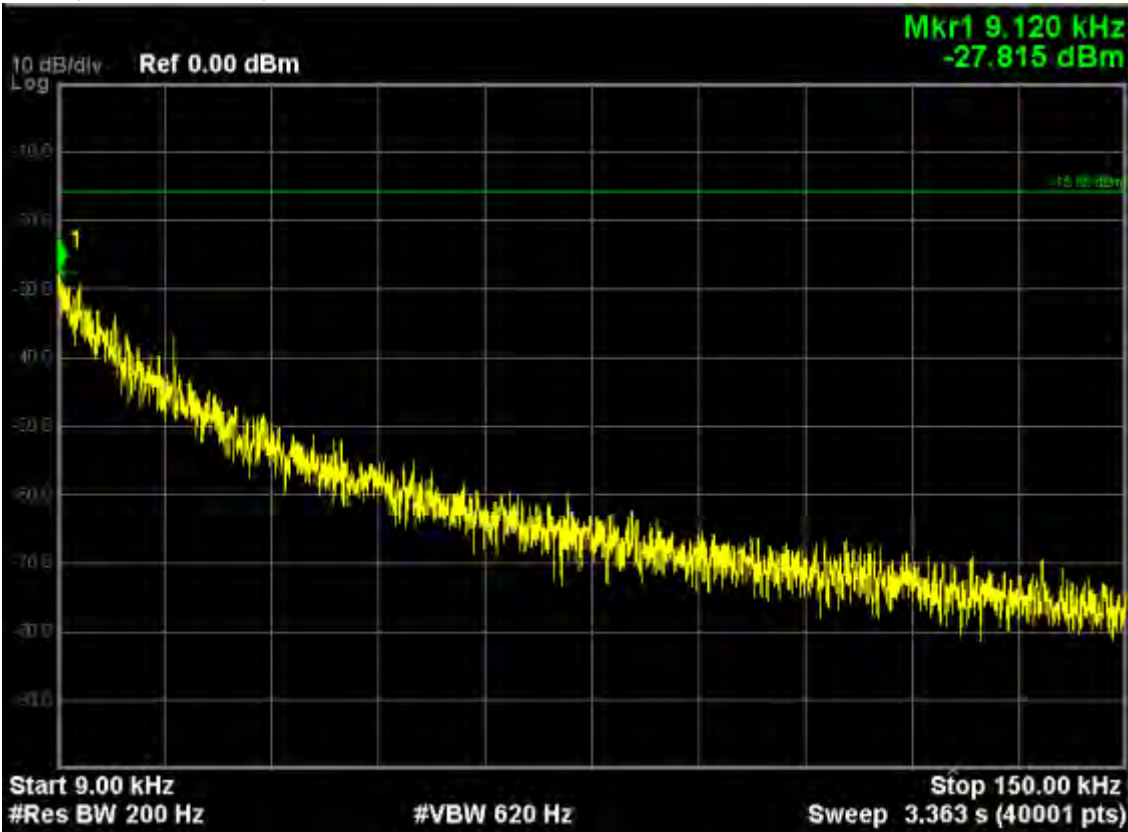


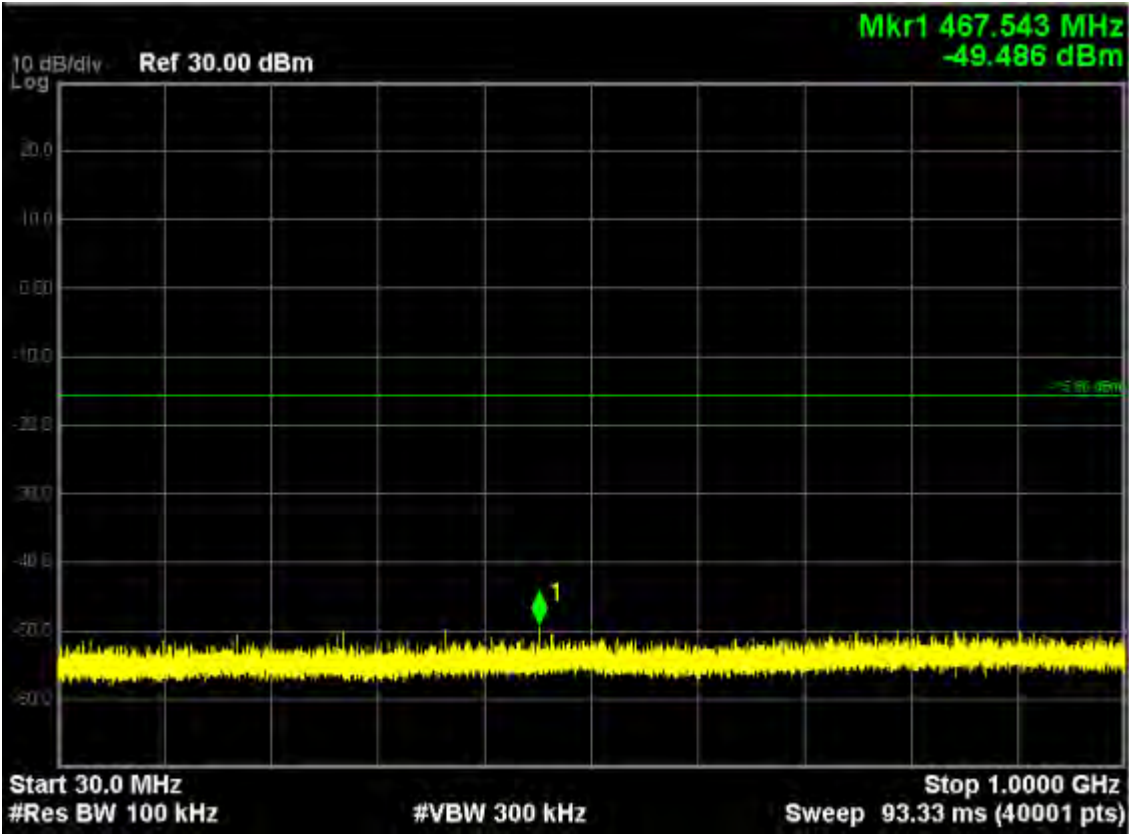
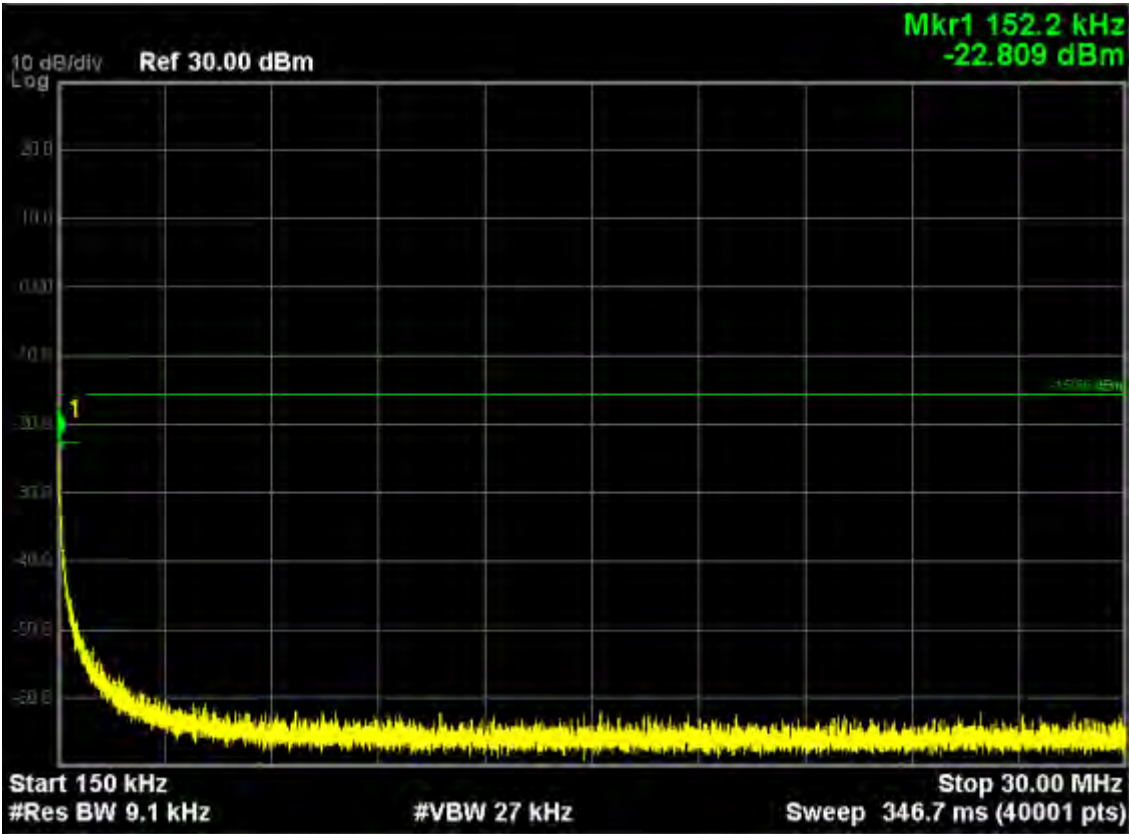


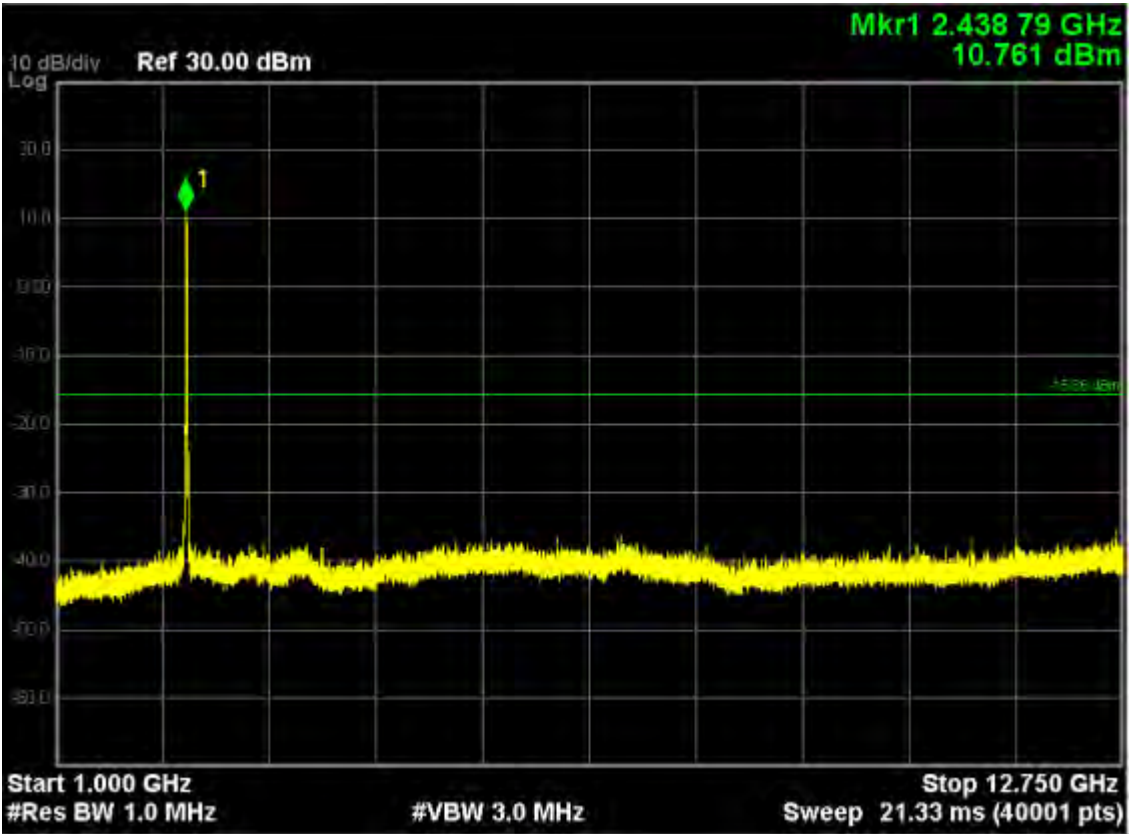
Note: The Mark1 point is carrier.



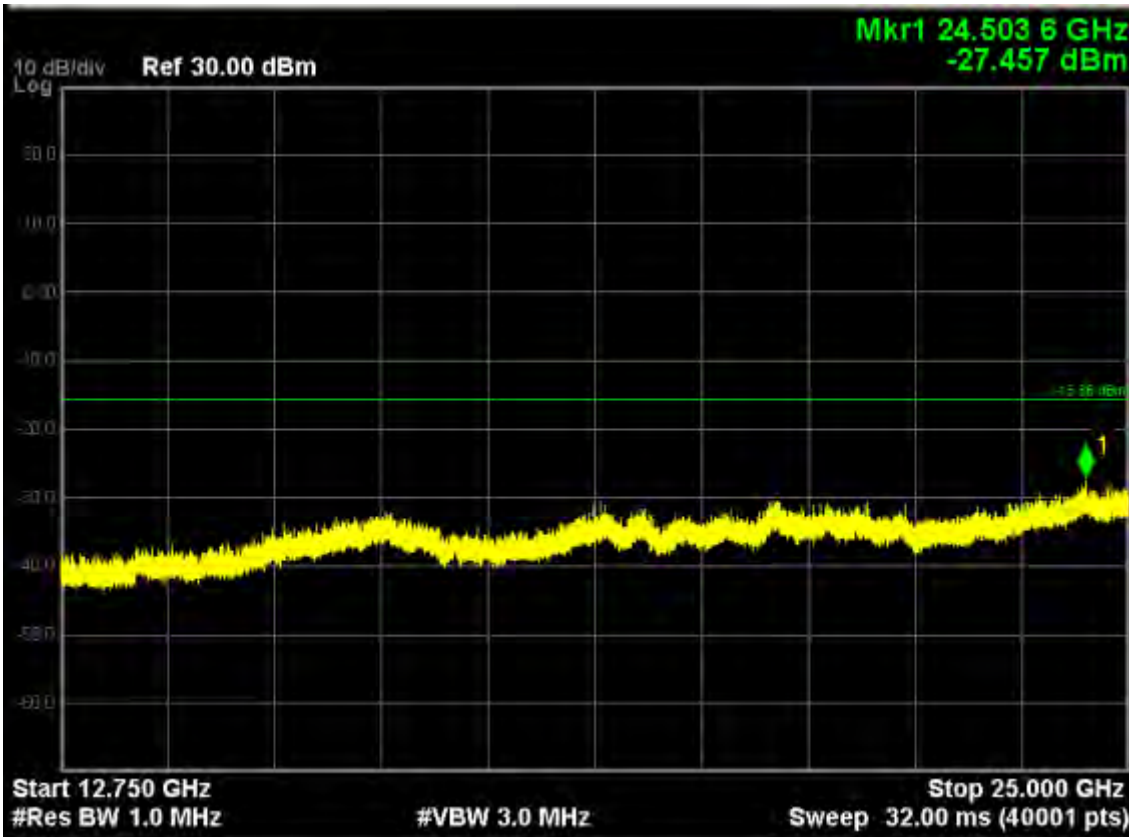
802.11n20, traffic mode; Channel 6



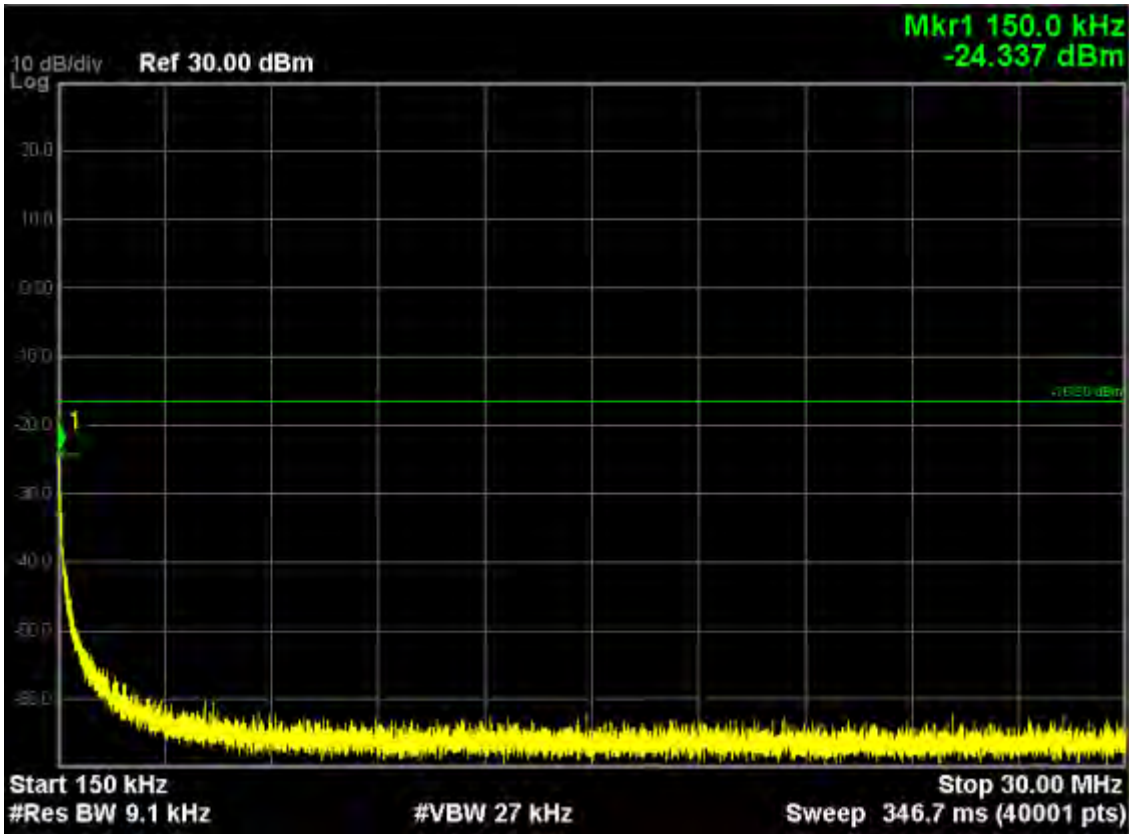
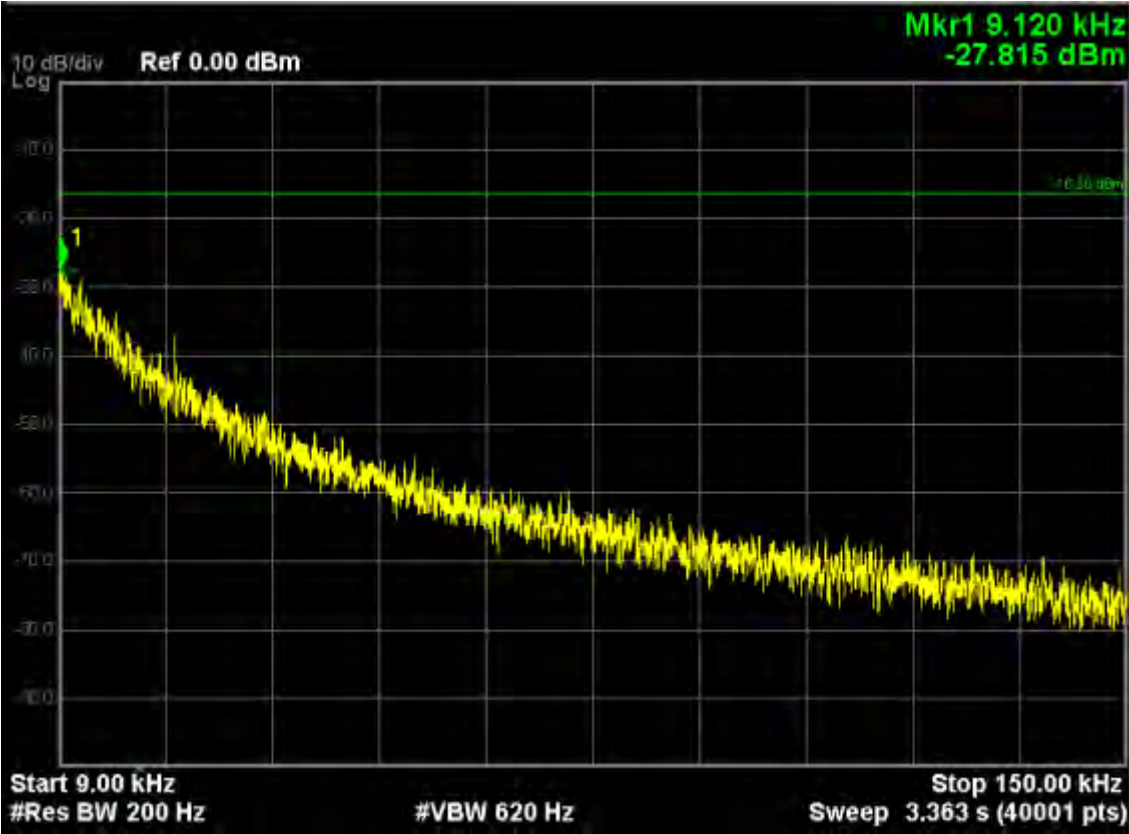


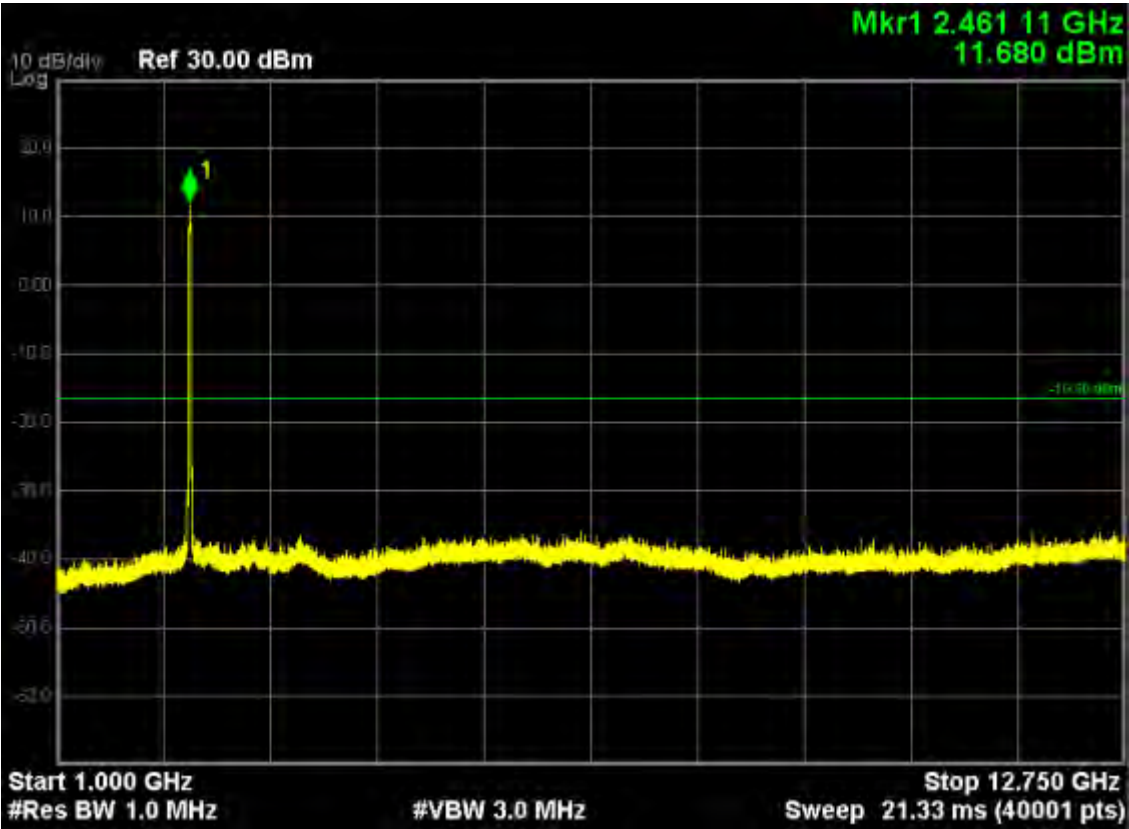
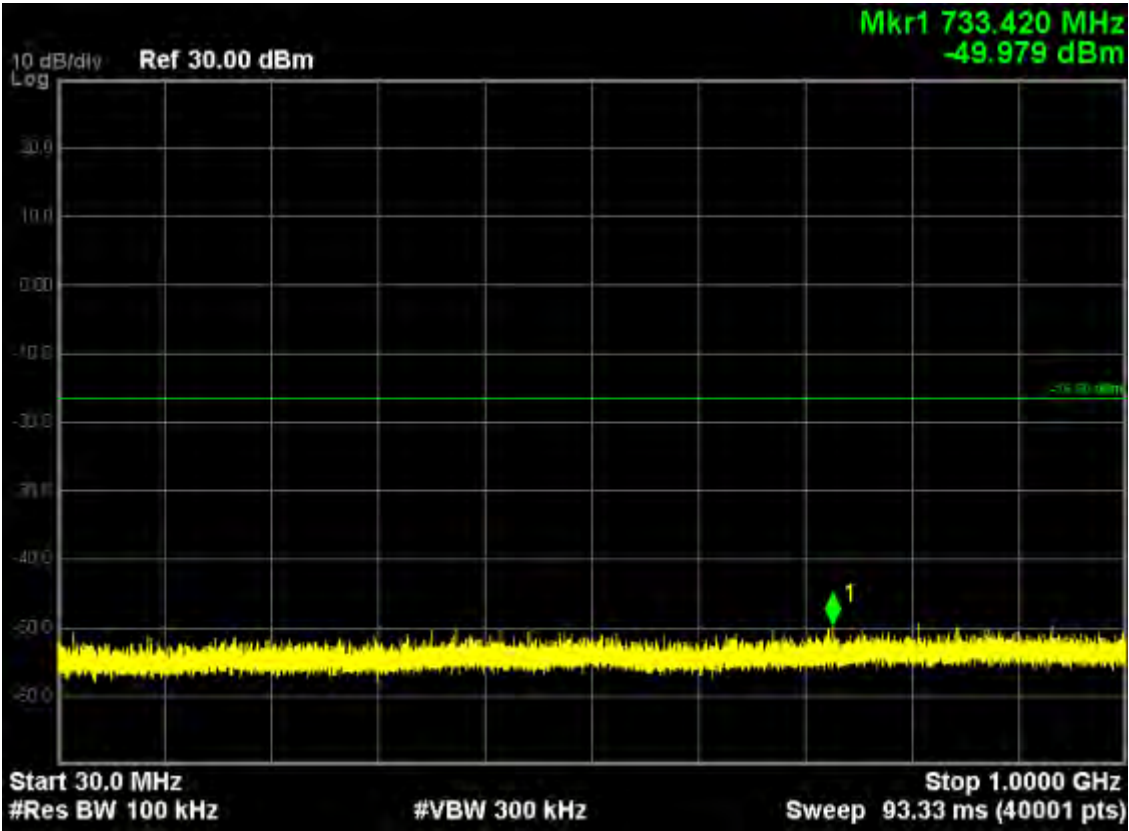


Note: The Mark1 point is carrier.

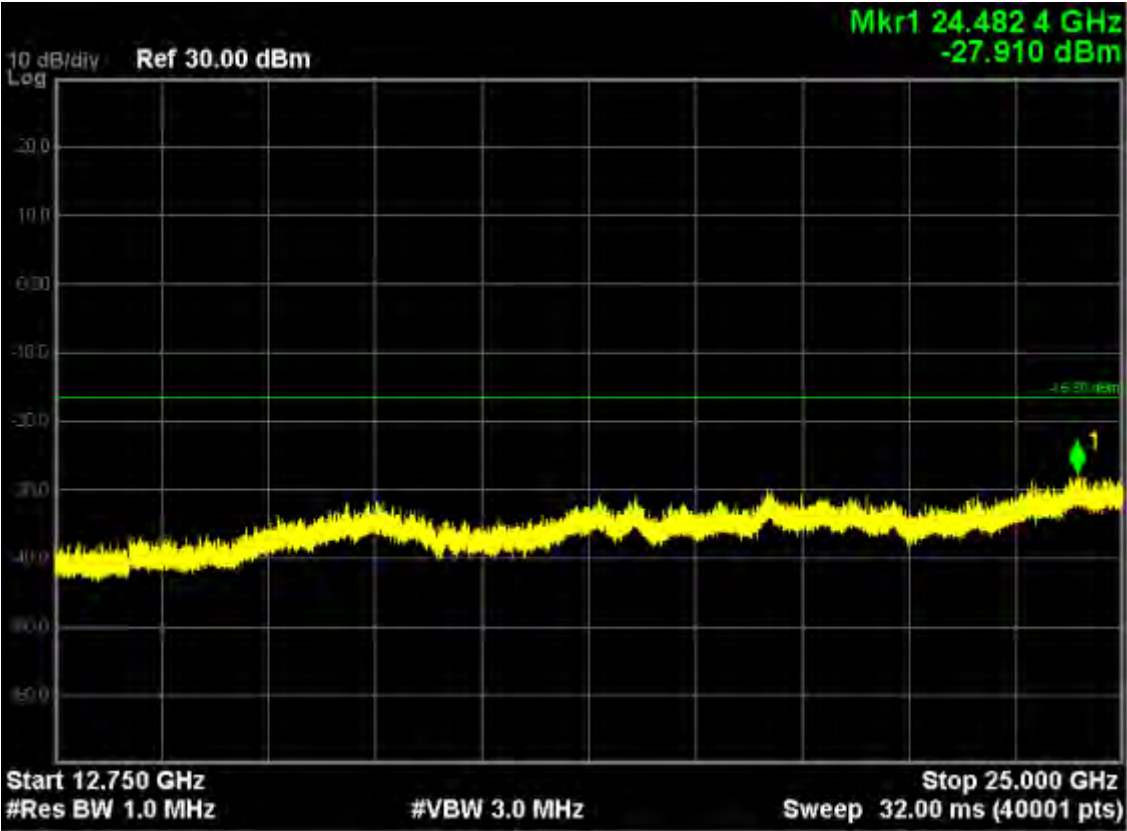


802.11n20, traffic mode; Channel 11

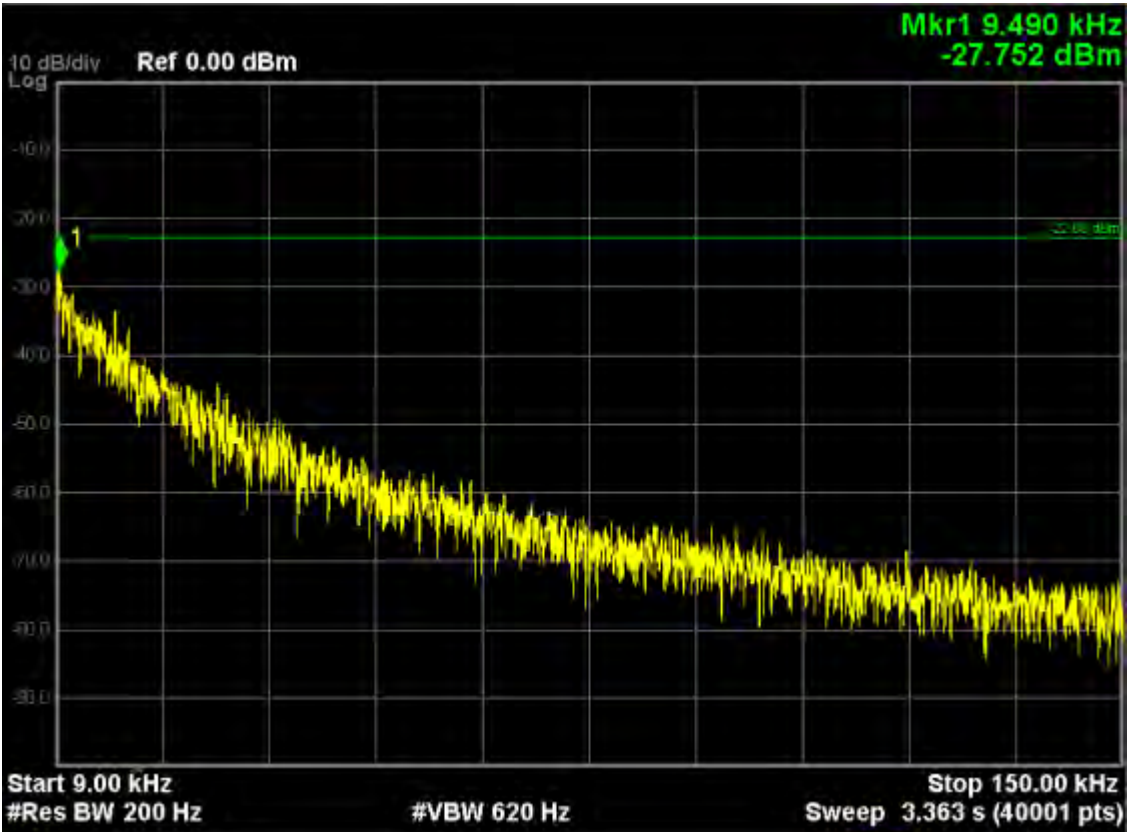


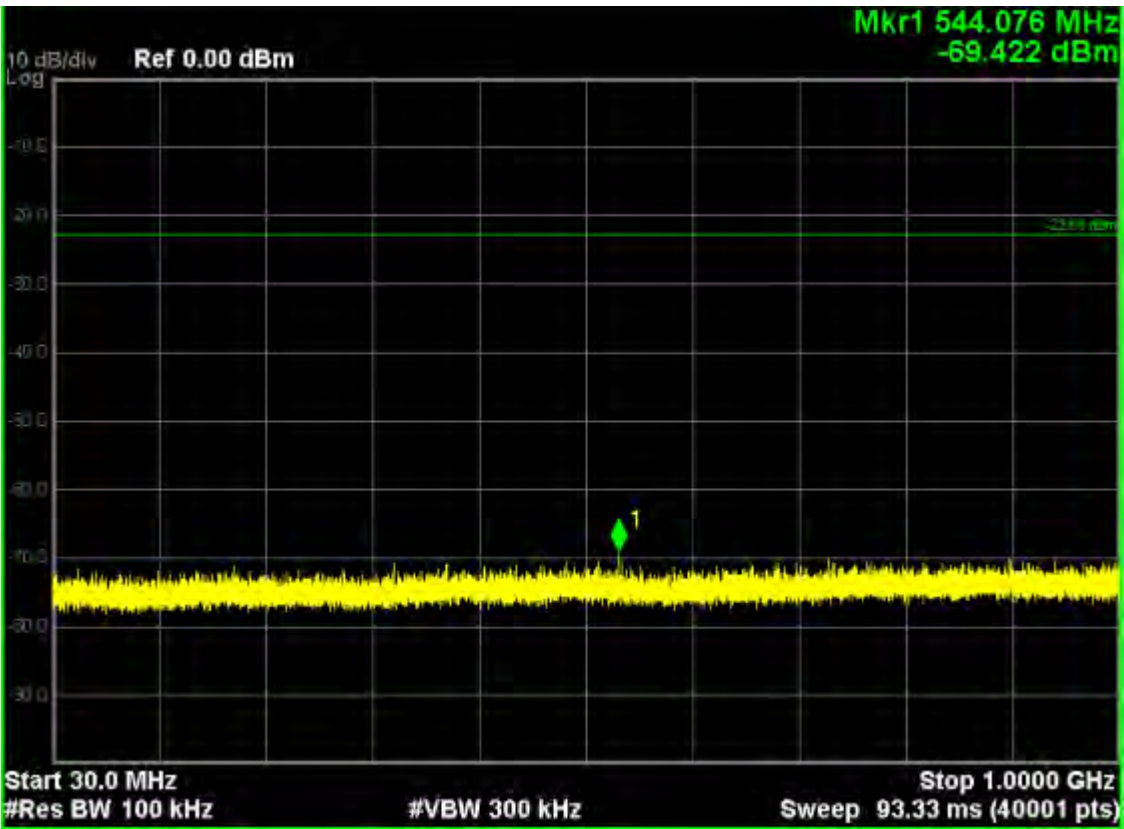
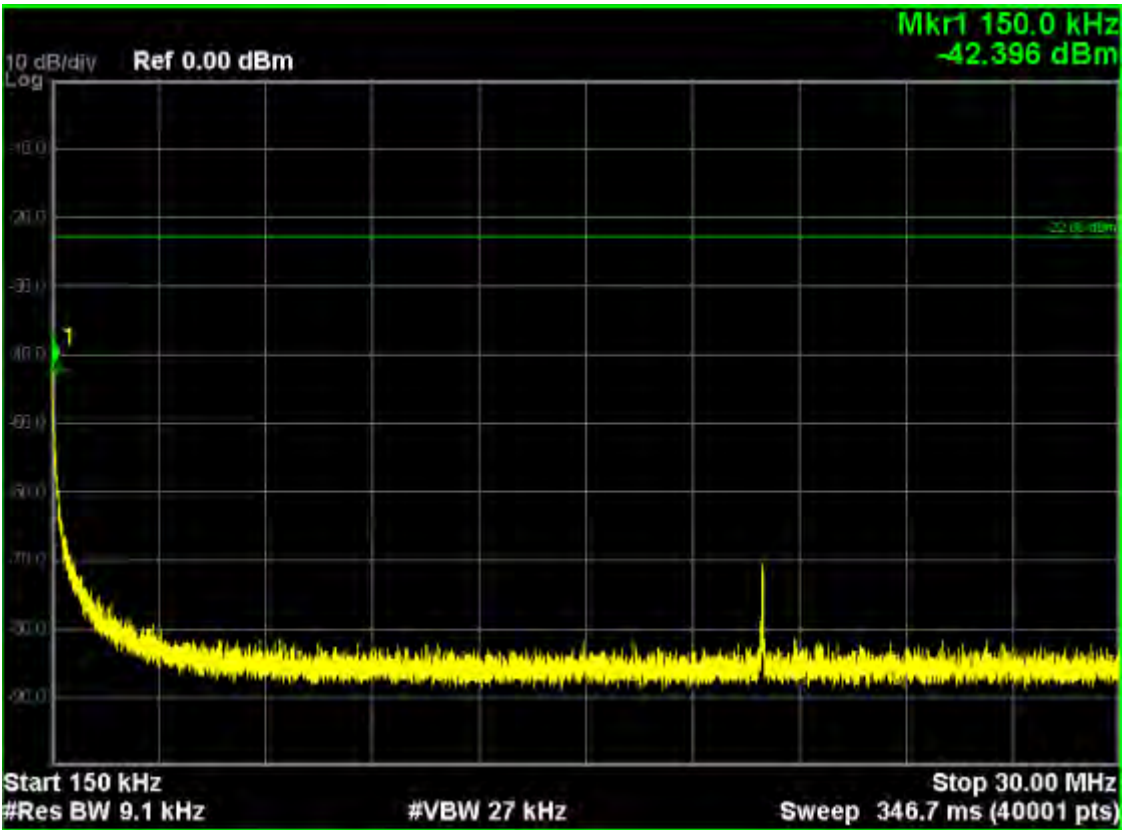


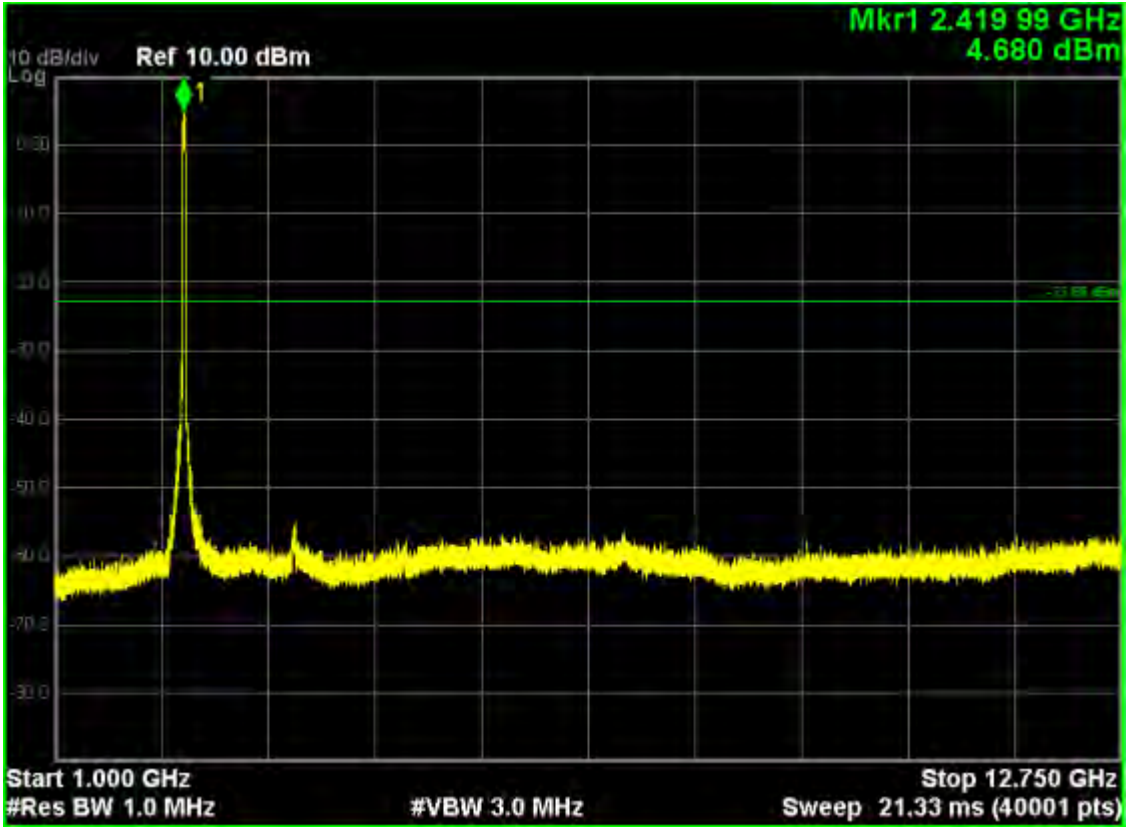
Note: The Mark1 point is carrier.



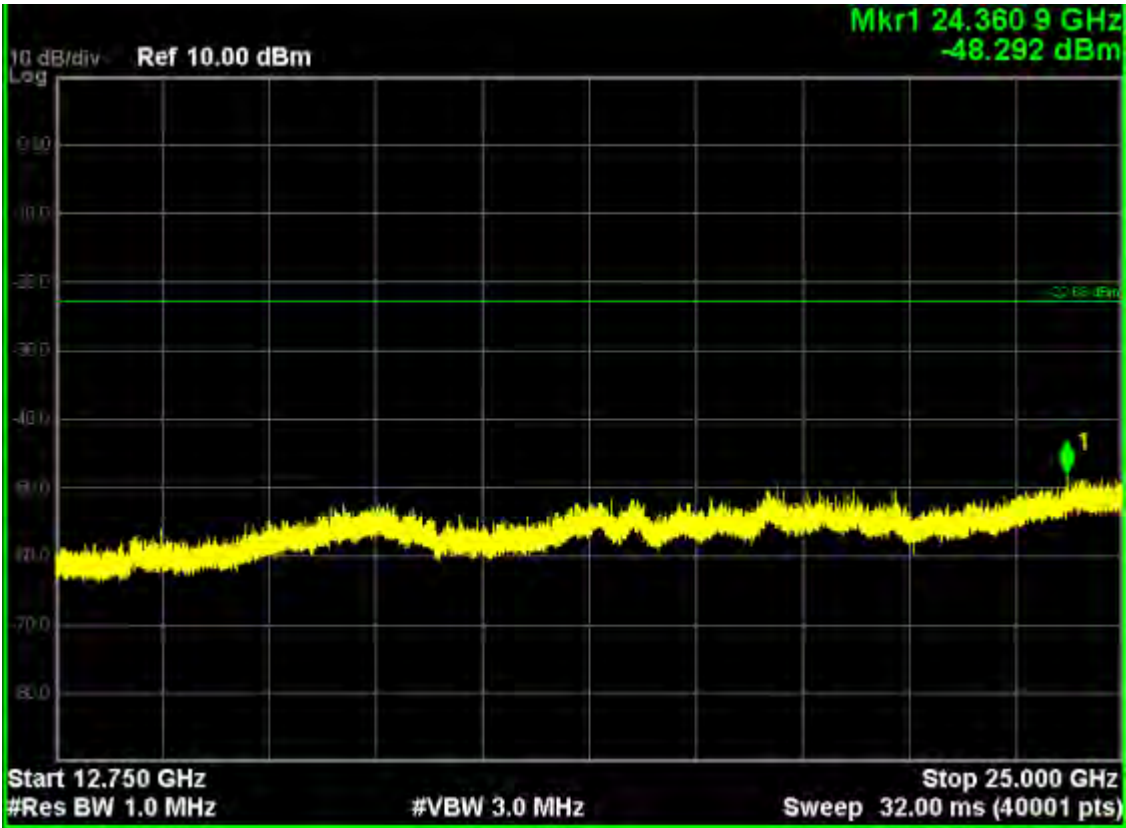
802.11n40, traffic mode; Channel 3



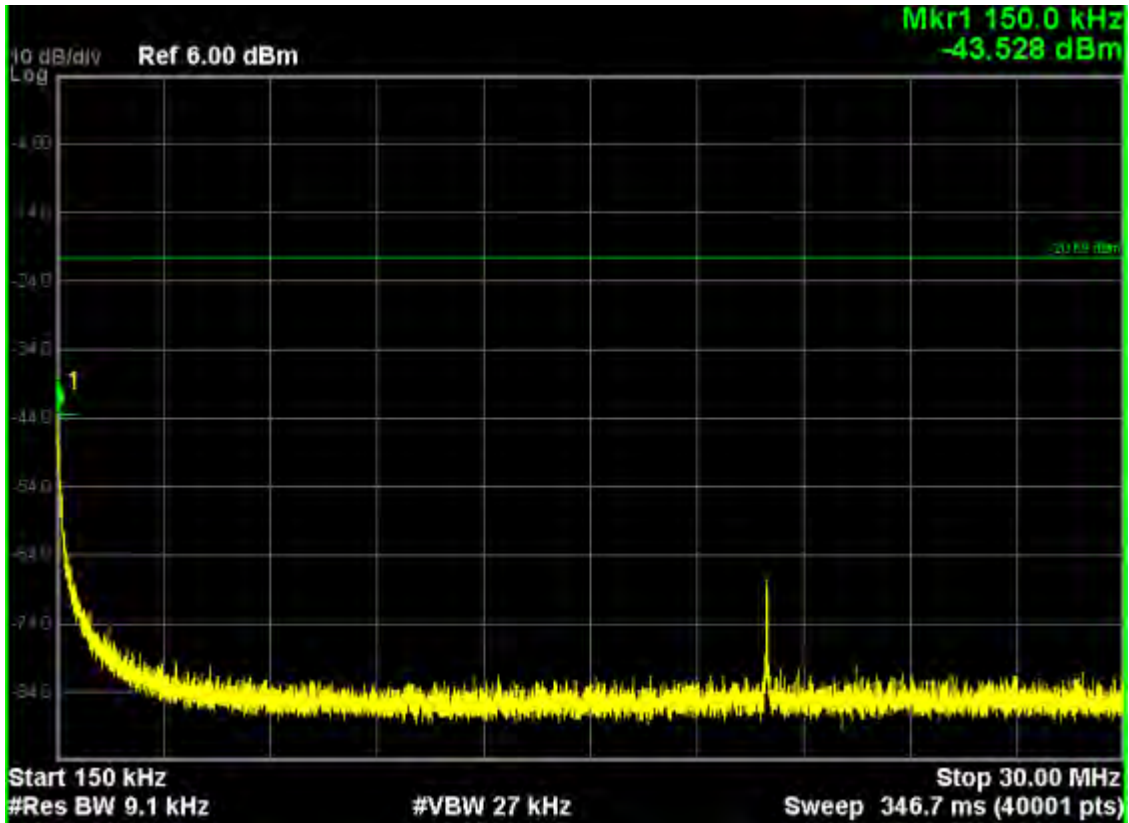
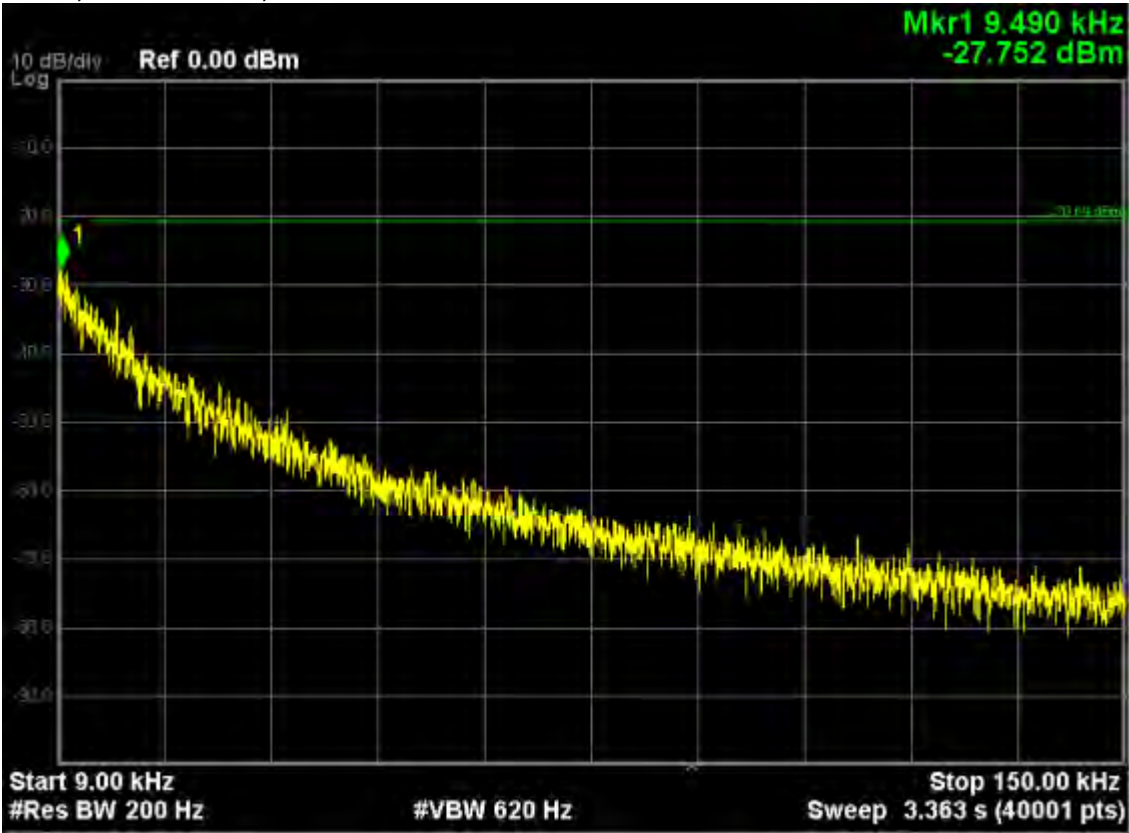


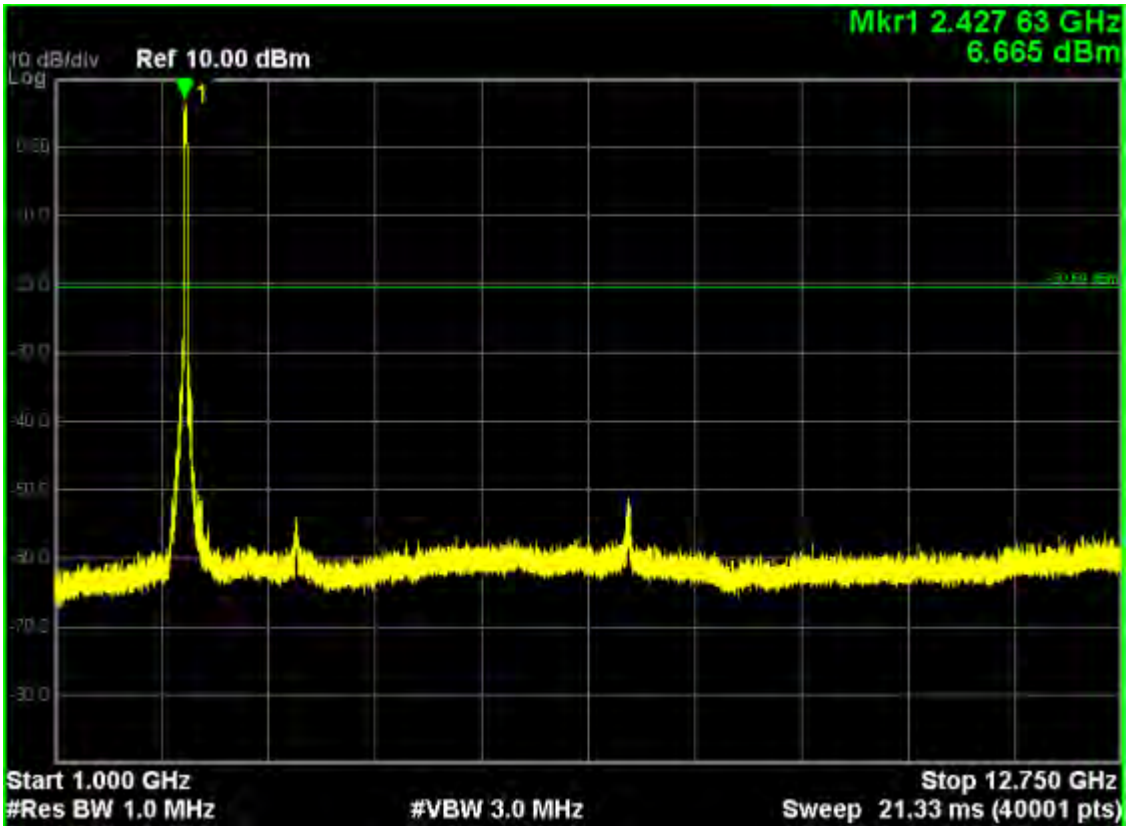
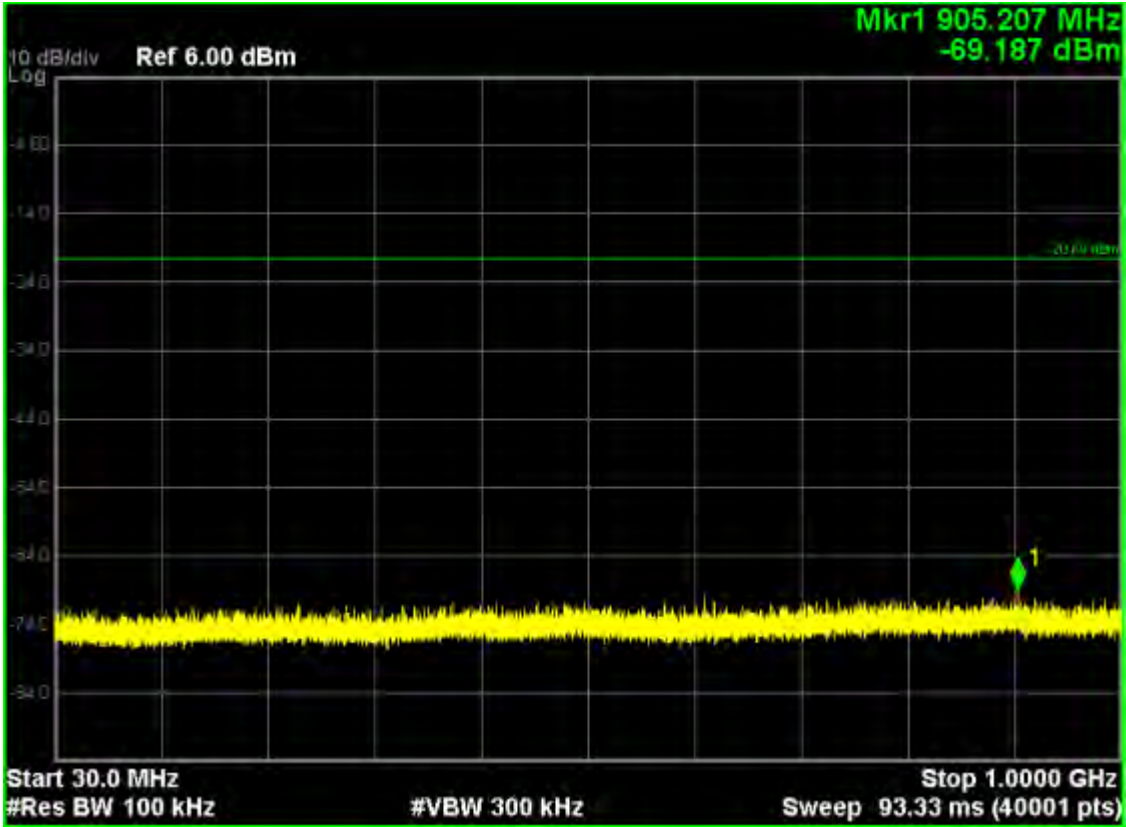


Note: The Mark1 point is carrier.

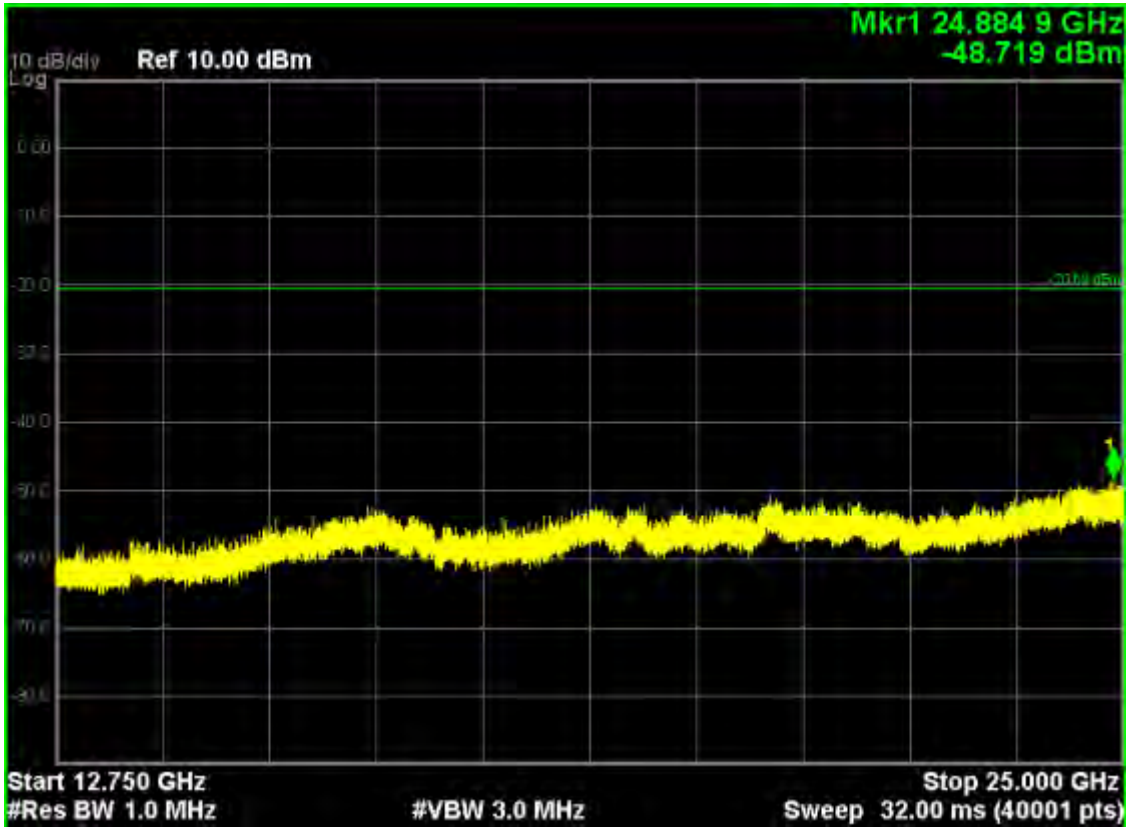


802.11n40, traffic mode; Channel 6

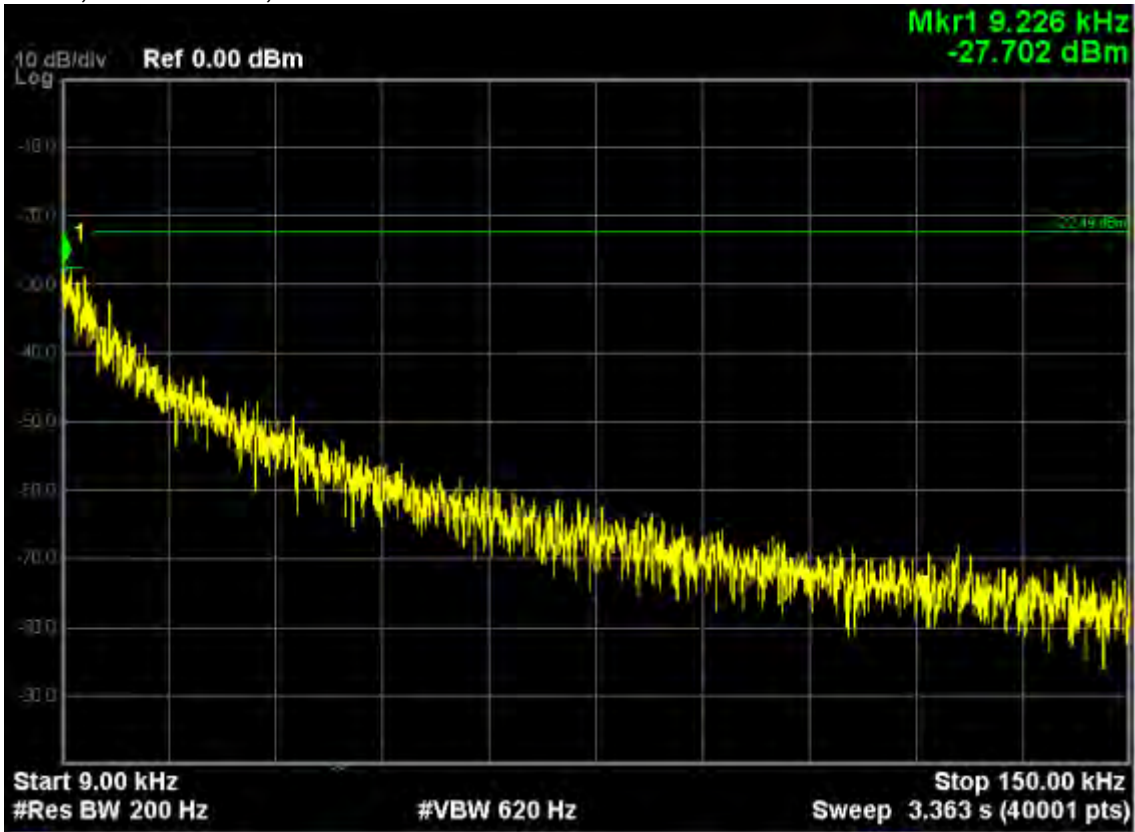


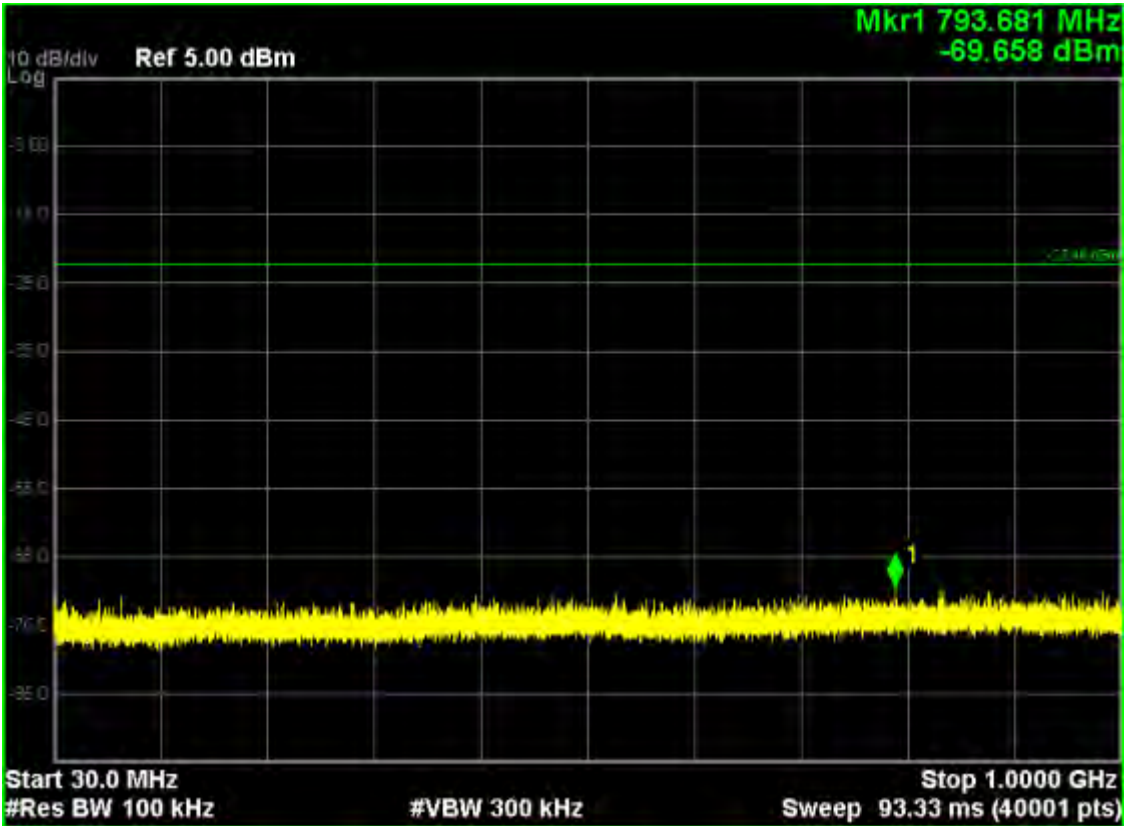
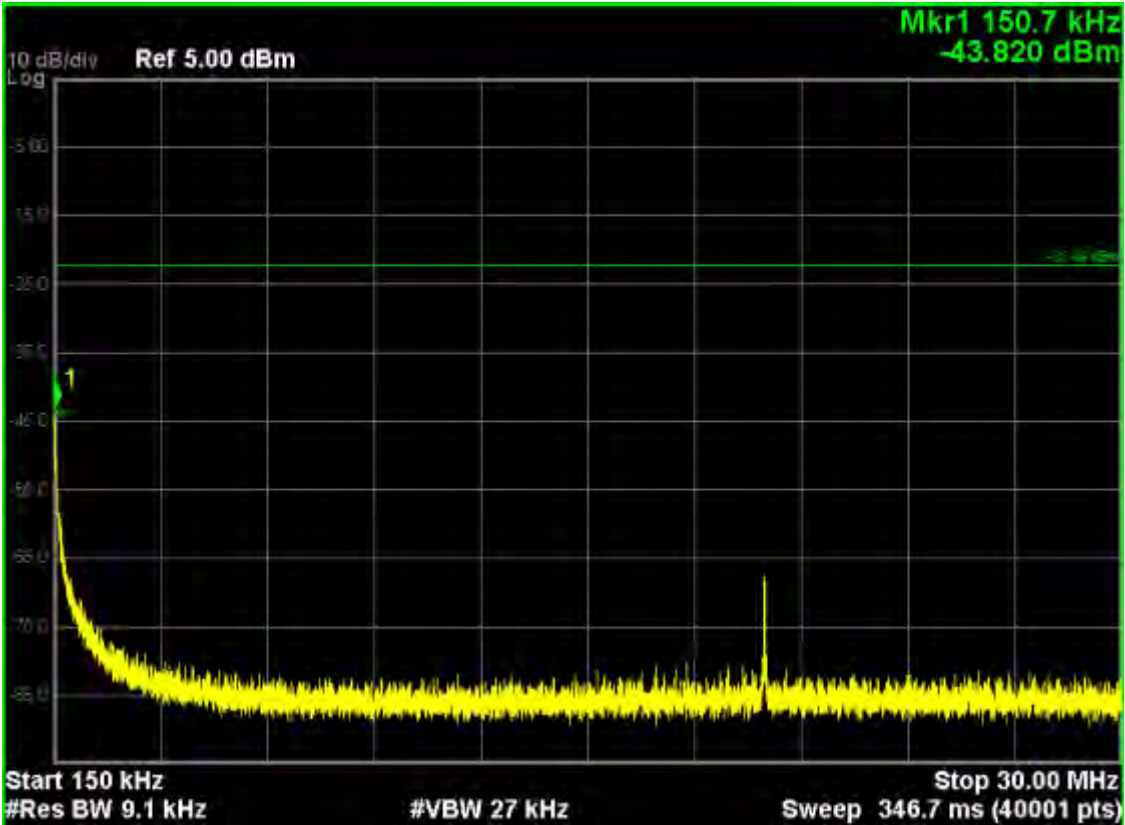


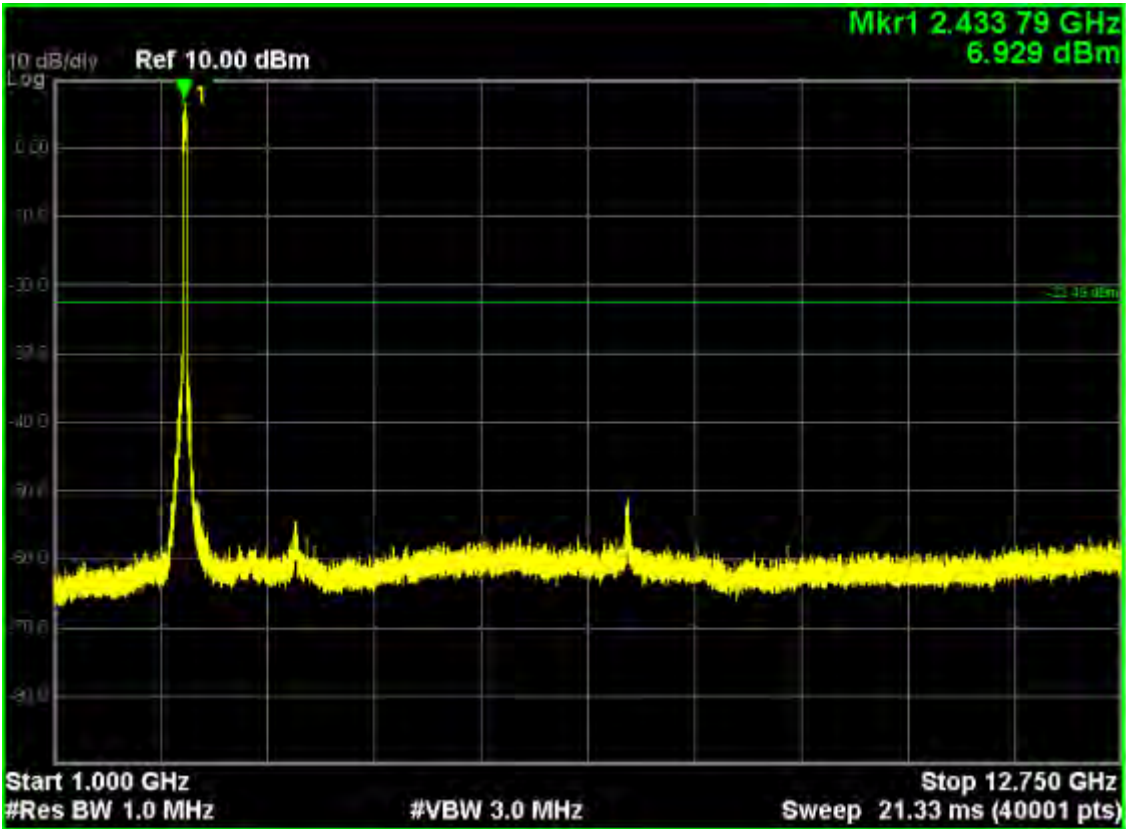
Note: The Mark1 point is carrier.



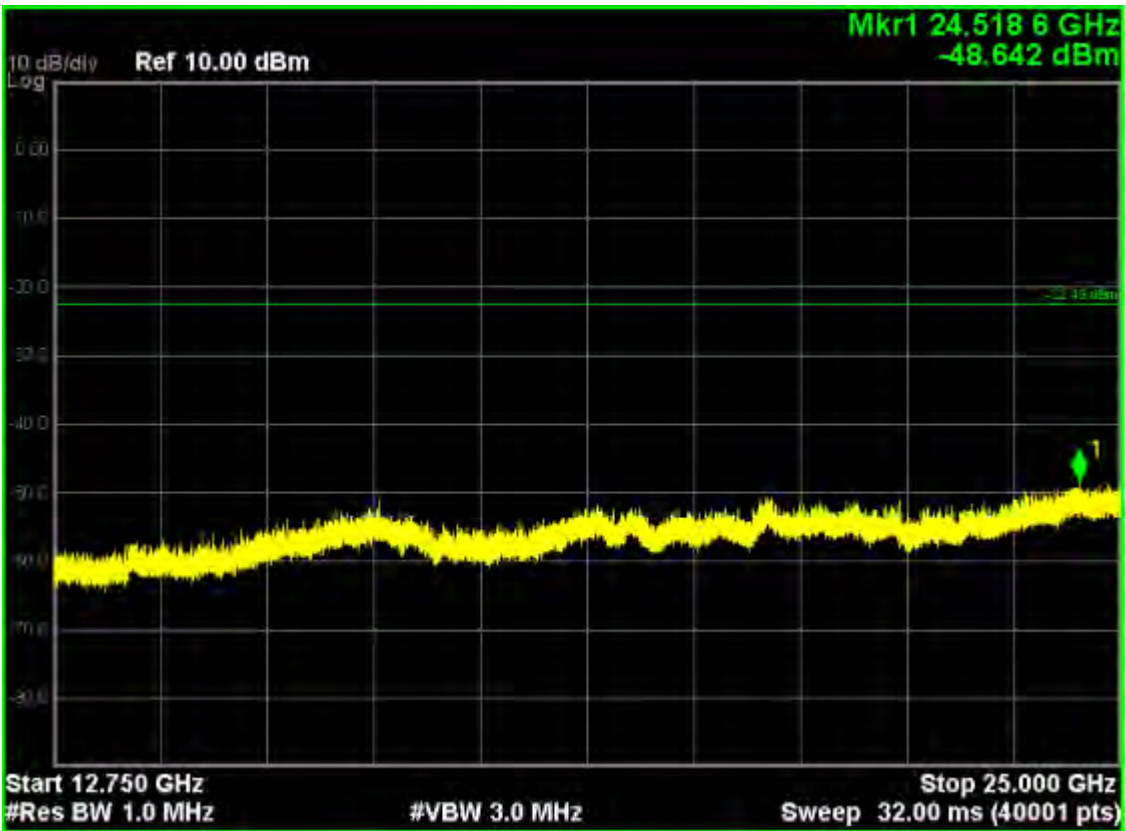
802.11n40, traffic mode; Channel 9





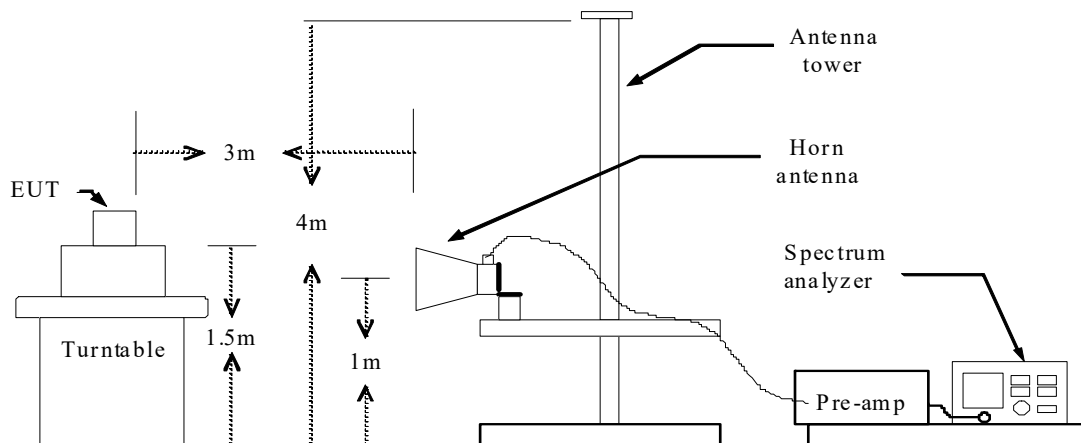


Note: The Mark1 point is carrier.



9. BAND EDGE MEASUREMENT

9.1 TEST SETUP



9.2 LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. 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).

9.3 TEST PROCEDURE

The EUT is placed on a turntable, which is 0.8m above the ground plane.

The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

PEAK: RBW=VBW=1MHz / Sweep=AUTO

AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

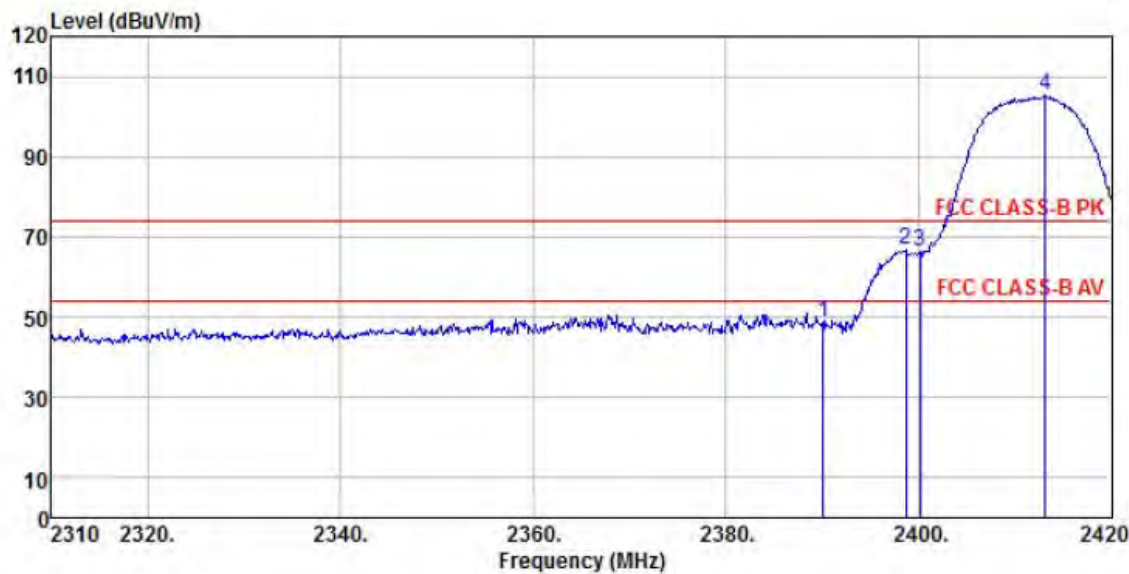
9.4 RESULTS & PERFORMANCE

Radiated Band Edge:

802.11b (Ch1)

Detector mode: Peak

Polarity: Horizontal

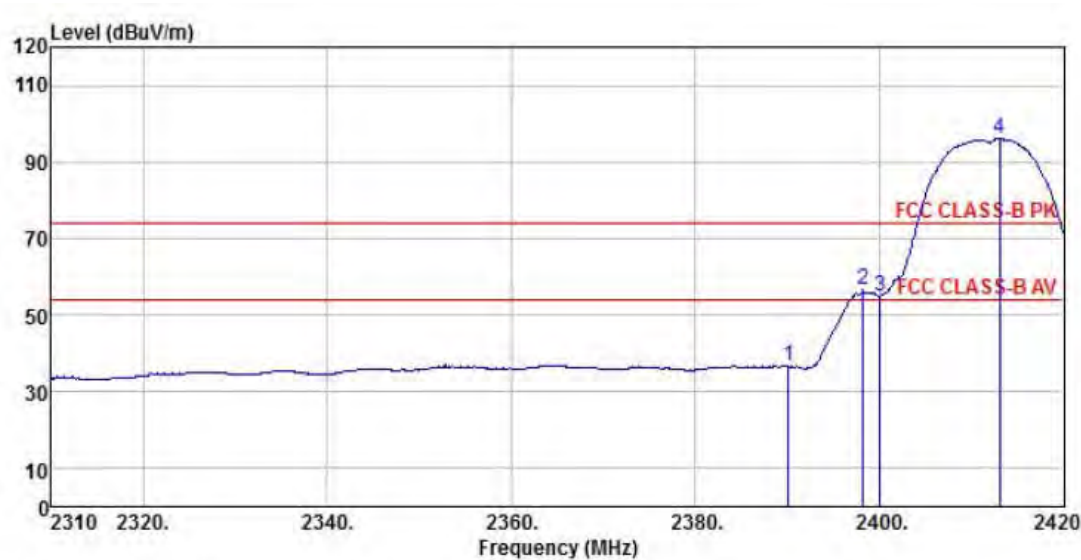


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

		ReadAntenna		Cable Preamp		Limit Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.08	52.56	27.58	7.13	38.34	48.93	74.00	-25.07	Peak
2	2398.66	70.47	27.58	7.13	38.34	66.84	74.00	-7.16	Peak
3	2400.20	70.08	27.58	7.13	38.34	66.45	74.00	-7.55	Peak
4 pp	2413.18	108.88	27.54	7.21	38.34	105.29	74.00	31.29	Peak

Detector mode: Average

Polarity: Horizontal

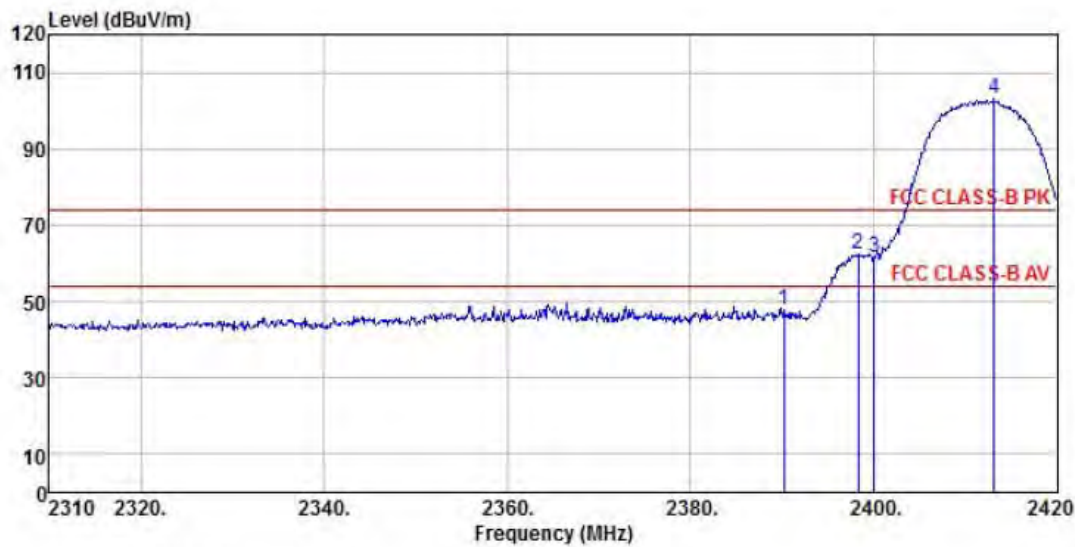


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

	Read	Antenna	Cable	Preamp		Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.08	40.27	27.58	7.13	38.34	36.64	54.00	-17.36 Average
2 *	2398.22	60.11	27.58	7.13	38.34	56.48	54.00	2.48 Average
3 *	2400.09	58.71	27.58	7.13	38.34	55.08	54.00	1.08 Average
4 pp	2413.07	99.59	27.54	7.21	38.34	96.00	54.00	42.00 Average

Detector mode: Peak

Polarity: Vertical

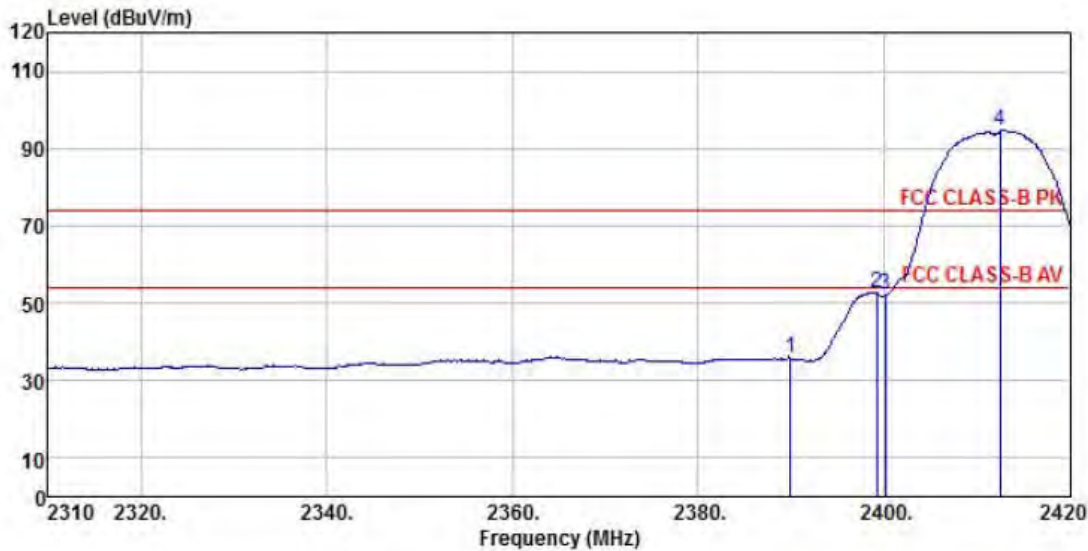


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2390.19	51.56	27.58	7.13	38.34	47.93	74.00	-26.07	Peak		
2	2398.33	66.16	27.58	7.13	38.34	62.53	74.00	-11.47	Peak		
3	2400.09	65.38	27.58	7.13	38.34	61.75	74.00	-12.25	Peak		
4	2413.18	106.70	27.54	7.21	38.34	103.11	74.00	29.11	Peak		

Detector mode: Average

Polarity: Vertical



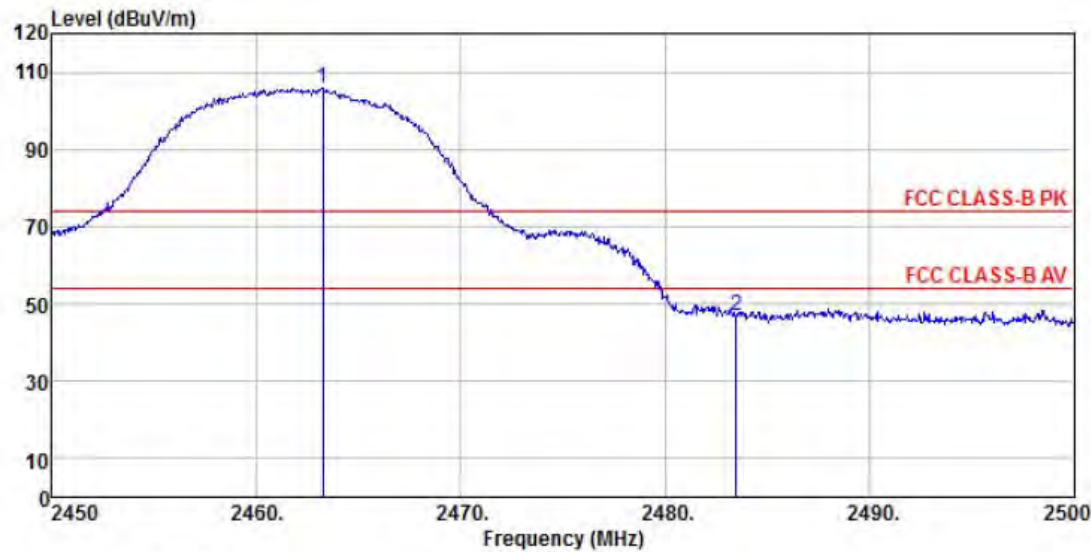
Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

		ReadAntenna		Cable Preamp		Limit		Over	
		Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2389.97	39.29	27.58	7.13	38.34	35.66	54.00	-18.34	Average
2	2399.21	56.20	27.58	7.13	38.34	52.57	54.00	-1.43	Average
3	2400.20	55.74	27.58	7.13	38.34	52.11	54.00	-1.89	Average
4 pp	2412.52	98.39	27.54	7.21	38.34	94.80	54.00	40.80	Average

802.11b (Ch11)

Detector mode: Peak

Polarity: Horizontal

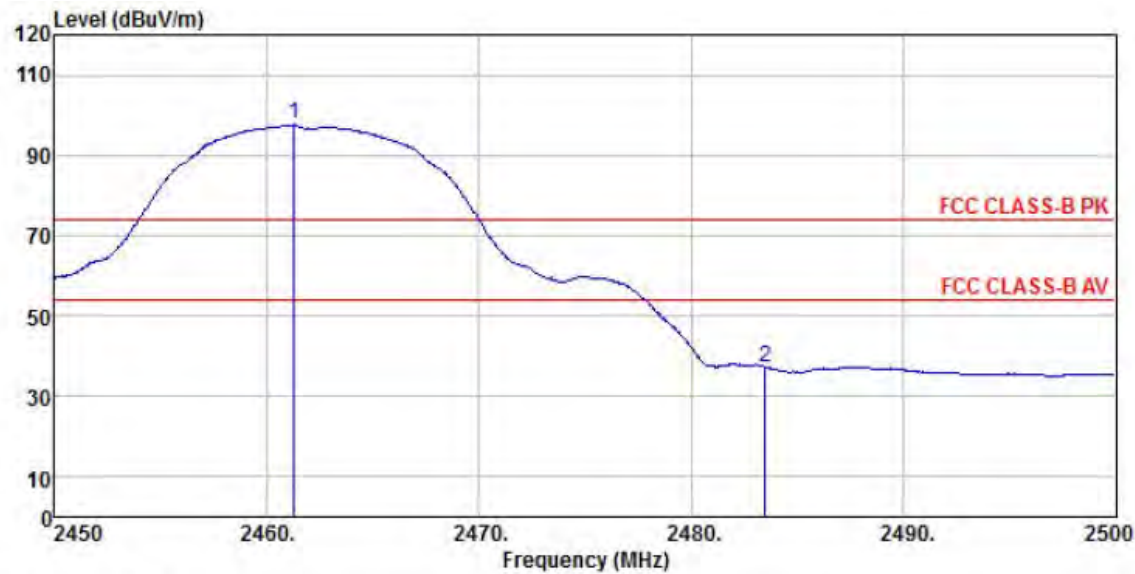


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

ReadAntenna		Cable Preamp		Limit Over	
Freq	Level Factor	Loss Factor	Level	Line Limit	Remark
MHz	dBuV	dB/m	dB	dB dBuV/m	dBuV/m dB
1 pp 2463.25	109.34	27.49	7.39	38.32 105.90	74.00 31.90 Peak
2 2483.50	50.10	27.52	7.41	38.31 46.72	74.00 -27.28 Peak

Detector mode: Average

Polarity: Horizontal

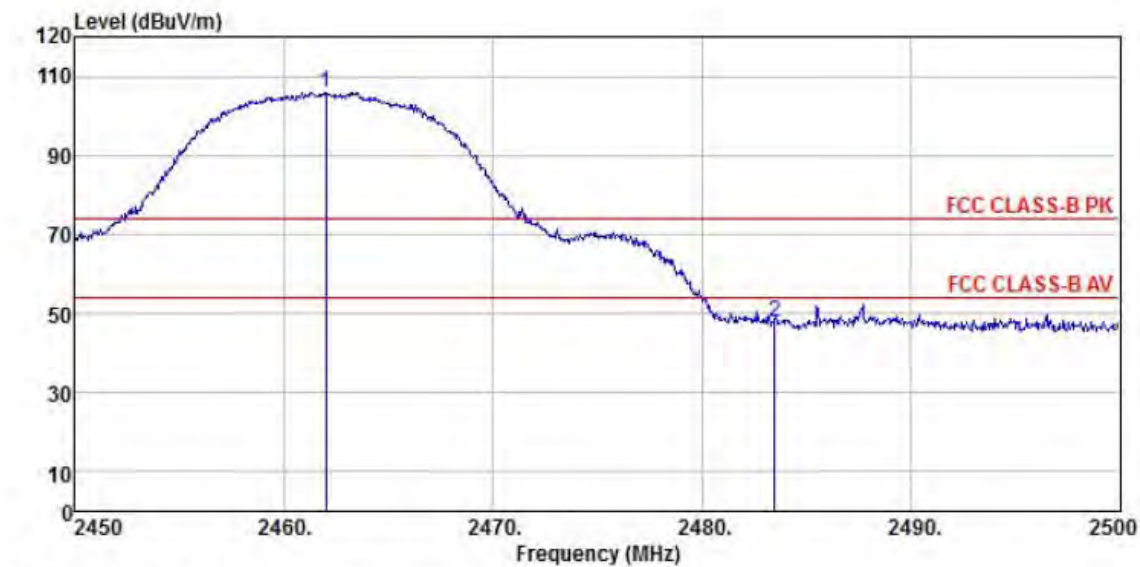


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	pp	2461.30	101.08	27.49	7.39	38.32	97.64	54.00	43.64	Average	
2		2483.50	40.72	27.52	7.41	38.31	37.34	54.00	-16.66	Average	

Detector mode: Peak

Polarity: Vertical

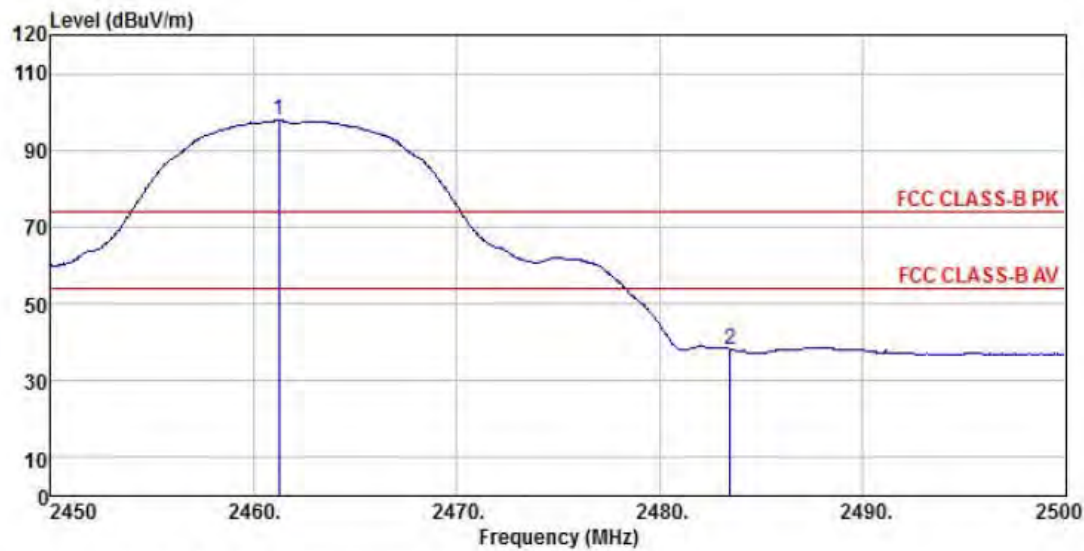


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m dB
1	pp 2462.00	109.34	27.49	7.39	38.32	105.90	74.00 31.90 Peak
2	2483.50	51.21	27.52	7.41	38.31	47.83	74.00 -26.17 Peak

Detector mode: Average

Polarity: Vertical



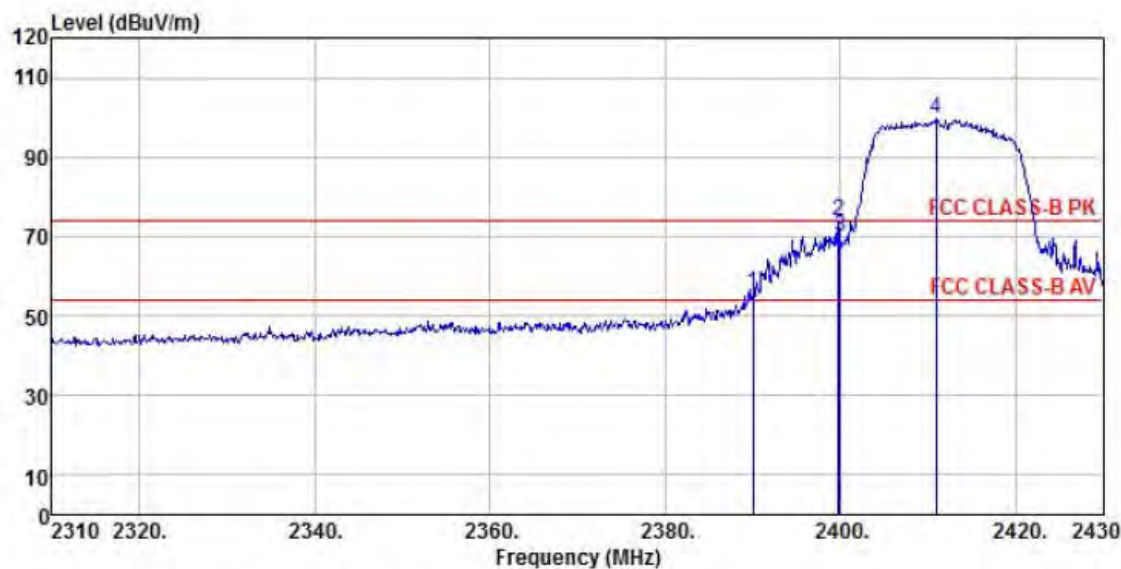
Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

		ReadAntenna		Cable Preamp		Limit		Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 pp	2461.25	101.16	27.49	7.39	38.32	97.72	54.00	43.72	Average	
2	2483.50	41.59	27.52	7.41	38.31	38.21	54.00	-15.79	Average	

802.11g (Ch1)

Detector mode: Peak

Polarity: Horizontal

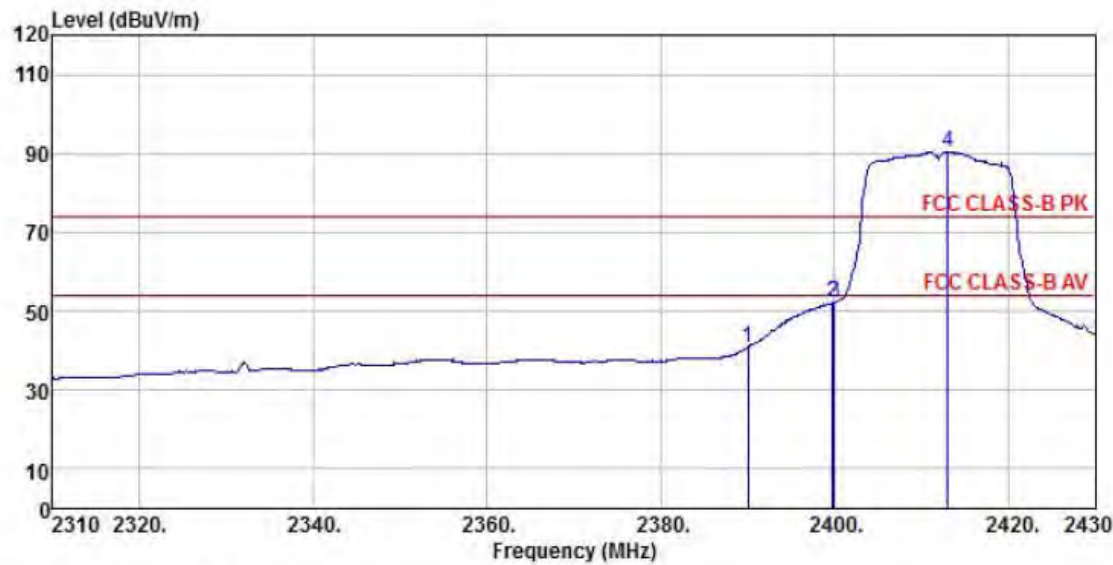


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.04	59.21	27.58	7.13	38.34	55.58	74.00 -18.42 Peak
2	2399.76	77.42	27.58	7.13	38.34	73.79	74.00 -0.21 Peak
3	2400.00	73.67	27.58	7.13	38.34	70.04	74.00 -3.96 Peak
4	pp 2410.92	103.05	27.54	7.21	38.34	99.46	74.00 25.46 Peak

Detector mode: Average

Polarity: Horizontal

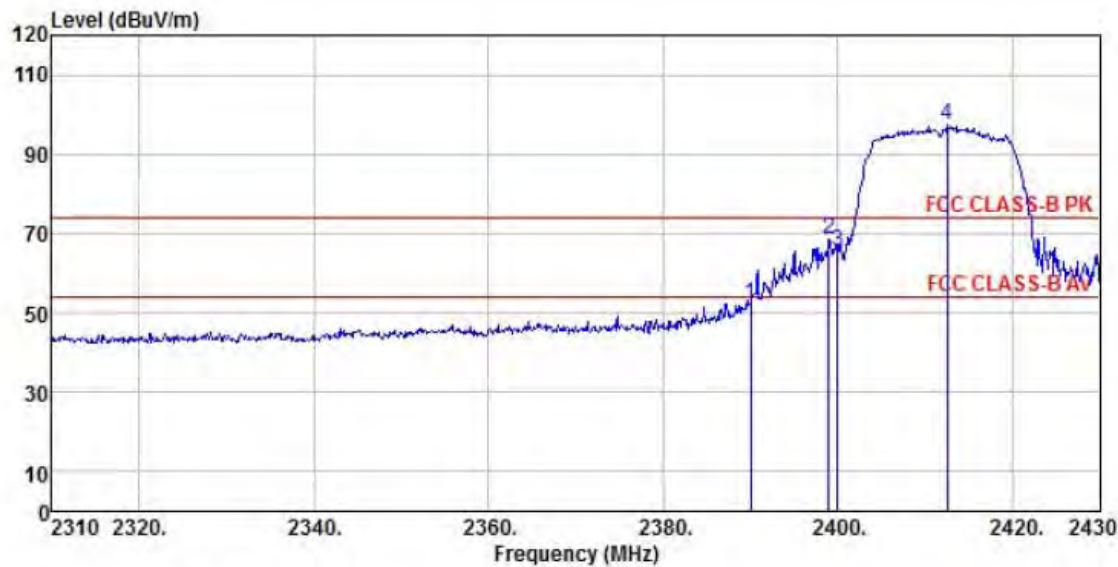


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line
	Limit	Remark					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.04	44.40	27.58	7.13	38.34	40.77	54.00
2	2399.76	55.72	27.58	7.13	38.34	52.09	54.00
3	2400.00	55.86	27.58	7.13	38.34	52.23	54.00
4 pp	2413.08	94.11	27.54	7.21	38.34	90.52	54.00

Detector mode: Peak

Polarity: Vertical

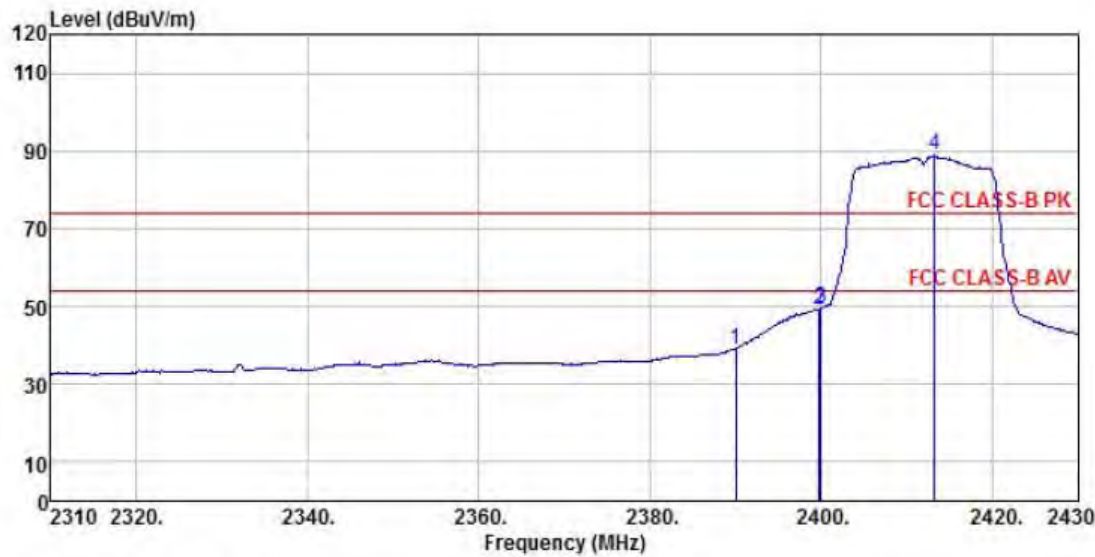


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.04	55.77	27.58	7.13	38.34	52.14
2	2399.04	72.13	27.58	7.13	38.34	68.50
3	2400.00	69.19	27.58	7.13	38.34	65.56
4 pp	2412.60	100.91	27.54	7.21	38.34	97.32

Detector mode: Average

Polarity: Vertical



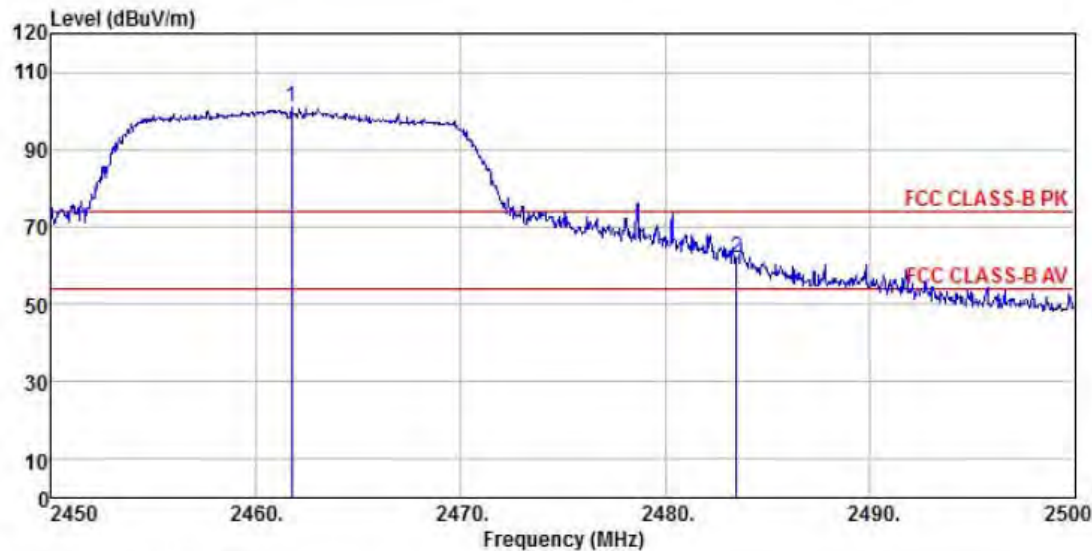
Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

		ReadAntenna		Cable Preamp		Limit		Over	
		Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.04	42.77	27.58	7.13	38.34	39.14	54.00	-14.86	Average
2	2399.76	53.00	27.58	7.13	38.34	49.37	54.00	-4.63	Average
3	2400.00	53.15	27.58	7.13	38.34	49.52	54.00	-4.48	Average
4 pp	2413.32	92.52	27.54	7.21	38.34	88.93	54.00	34.93	Average

802.11g (Ch11)

Detector mode: Peak

Polarity: Horizontal

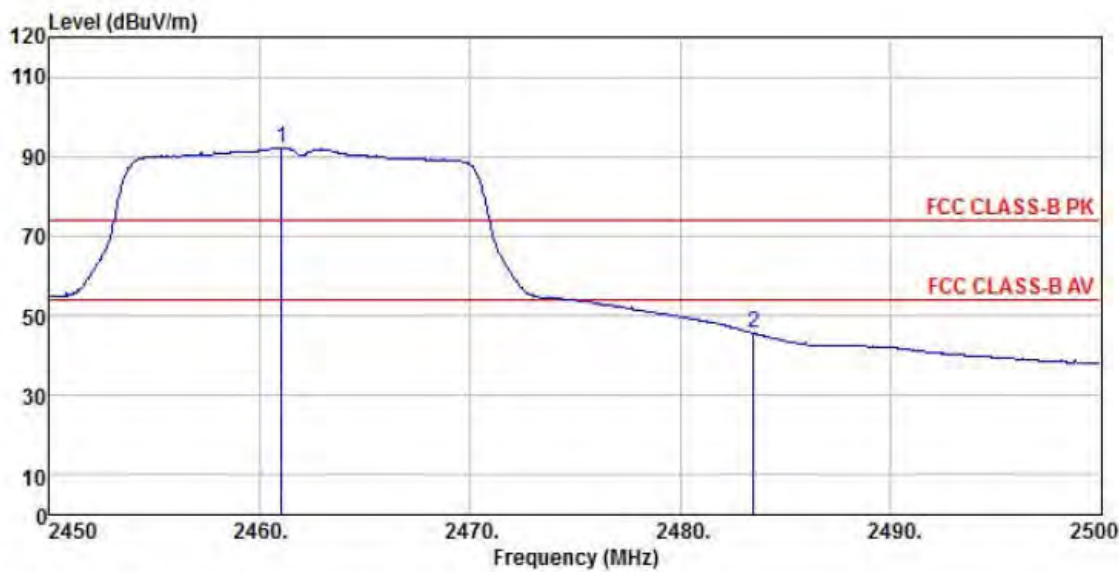


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

		ReadAntenna		Cable Preamp		Limit		Over	
		Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	pp	2461.75	104.24	27.49	7.39	38.32	100.80	74.00	26.80 Peak
2		2483.50	65.36	27.52	7.41	38.31	61.98	74.00	-12.02 Peak

Detector mode: Average

Polarity: Horizontal

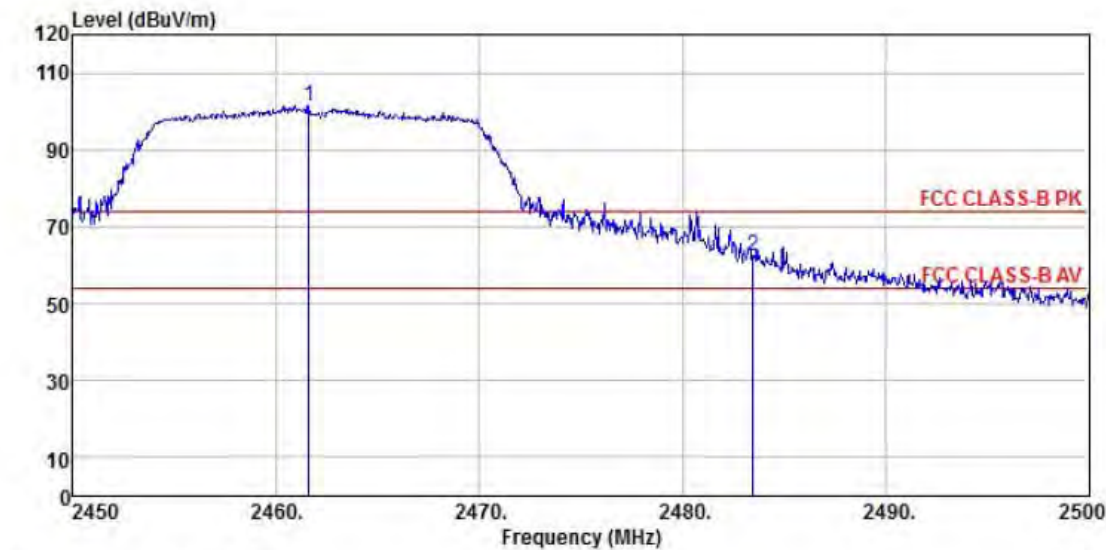


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

		ReadAntenna		Cable Preamp		Limit Over	
Freq		Level	Factor	Loss	Factor	Level	Line
		Limit	Remark				
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp 2461.05	95.66	27.49	7.39	38.32	92.22	54.00	38.22 Average
2 2483.50	49.01	27.52	7.41	38.31	45.63	54.00	-8.37 Average

Detector mode: Peak

Polarity: Vertical

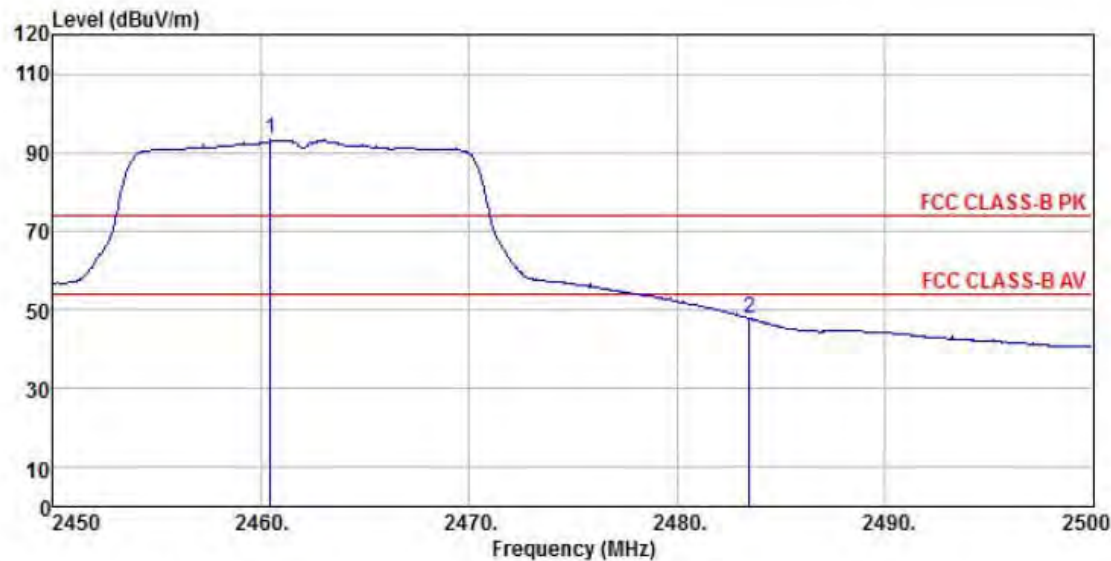


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

ReadAntenna		Cable Preamp		Limit Over	
Freq	Level	Factor	Loss Factor	Level	Line Limit Remark
MHz	dBuV	dB/m	dB	dB dBuV/m	dBuV/m dB
1 pp 2461.60	104.71	27.49	7.39	38.32 101.27	74.00 27.27 Peak
2 2483.50	65.78	27.52	7.41	38.31 62.40	74.00 -11.60 Peak

Detector mode: Average

Polarity: Vertical



Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

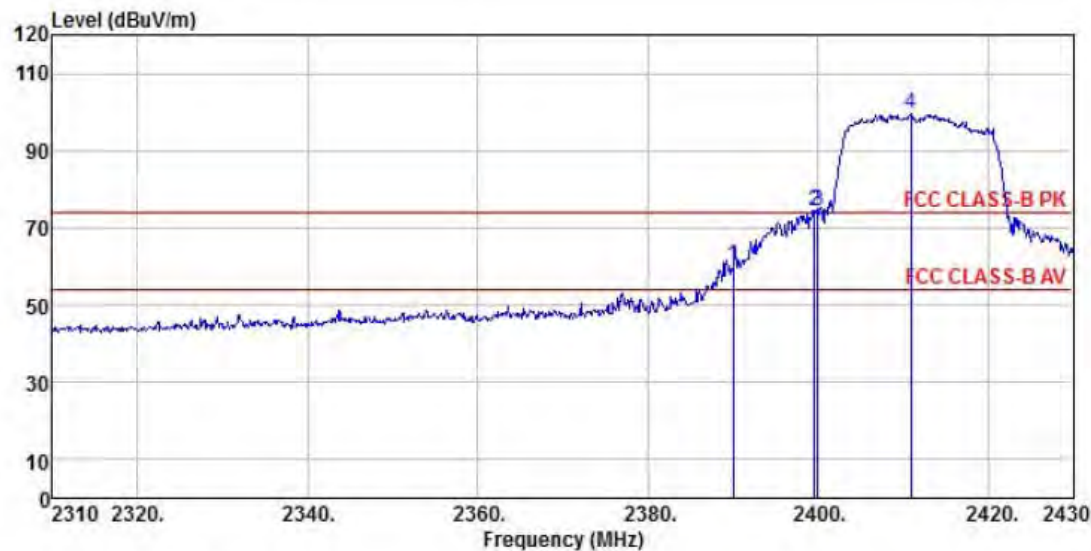
ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Level Line Limit Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	2460.45	96.78	27.49	7.39	38.32	93.34	54.00	39.34	Average
2	2483.50	51.07	27.52	7.41	38.31	47.69	54.00	-6.31	Average

802.11n20 (Ch1)

Detector mode: Peak

Polarity: Horizontal

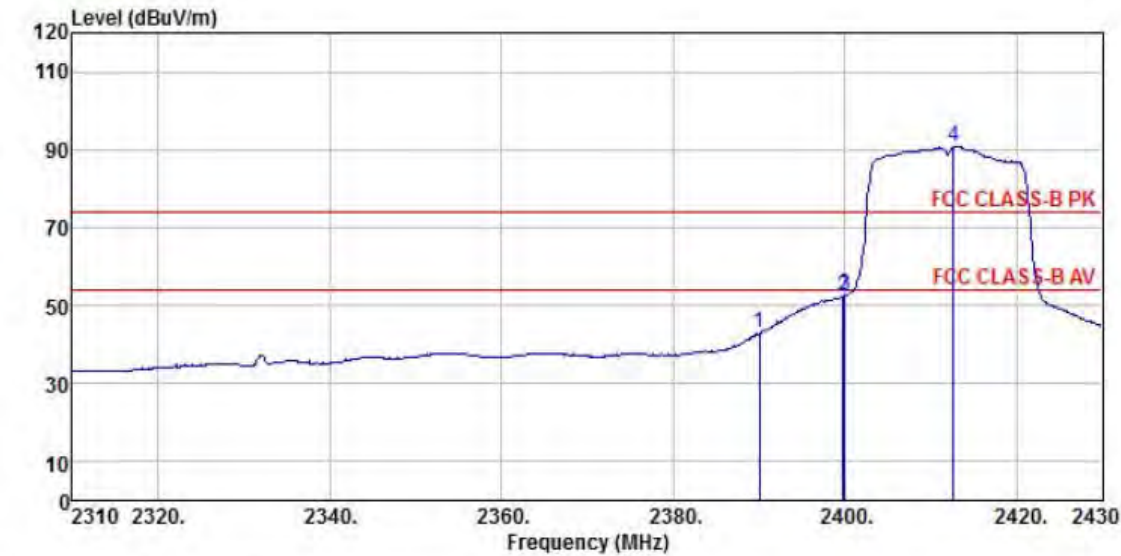


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.04	63.74	27.58	7.13	38.34	60.11	74.00	-13.89 Peak
2 *	2399.64	77.92	27.58	7.13	38.34	74.29	74.00	0.29 Peak
3 *	2400.00	78.10	27.58	7.13	38.34	74.47	74.00	0.47 Peak
4 pp	2410.92	103.25	27.54	7.21	38.34	99.66	74.00	25.66 Peak

Detector mode: Average

Polarity: Horizontal

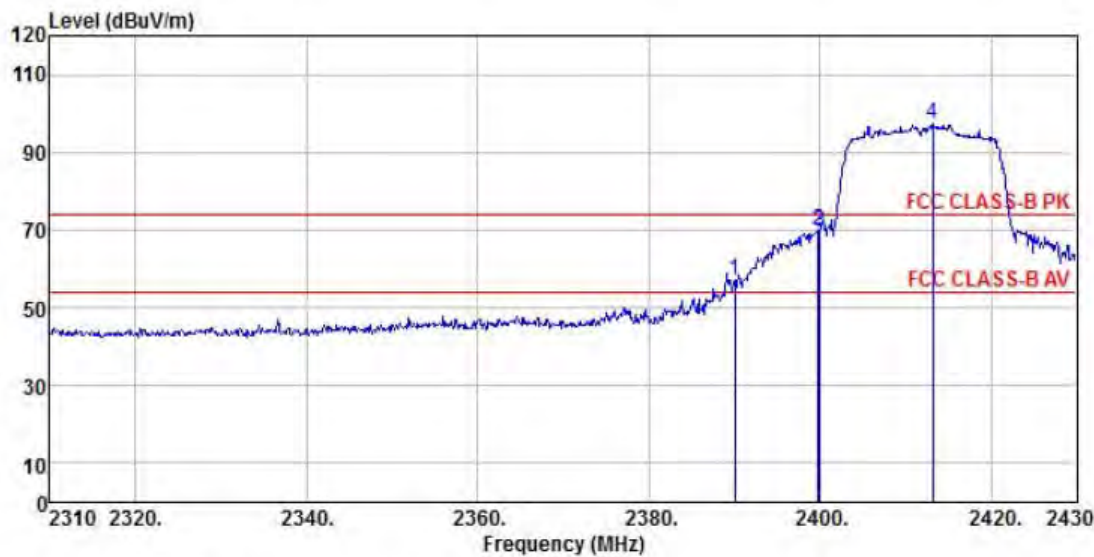


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.04	46.40	27.58	7.13	38.34	42.77	54.00 -11.23 Average
2	2399.76	55.94	27.58	7.13	38.34	52.31	54.00 -1.69 Average
3	2400.00	56.16	27.58	7.13	38.34	52.53	54.00 -1.47 Average
4 pp	2412.72	94.51	27.54	7.21	38.34	90.92	54.00 36.92 Average

Detector mode: Peak

Polarity: Vertical

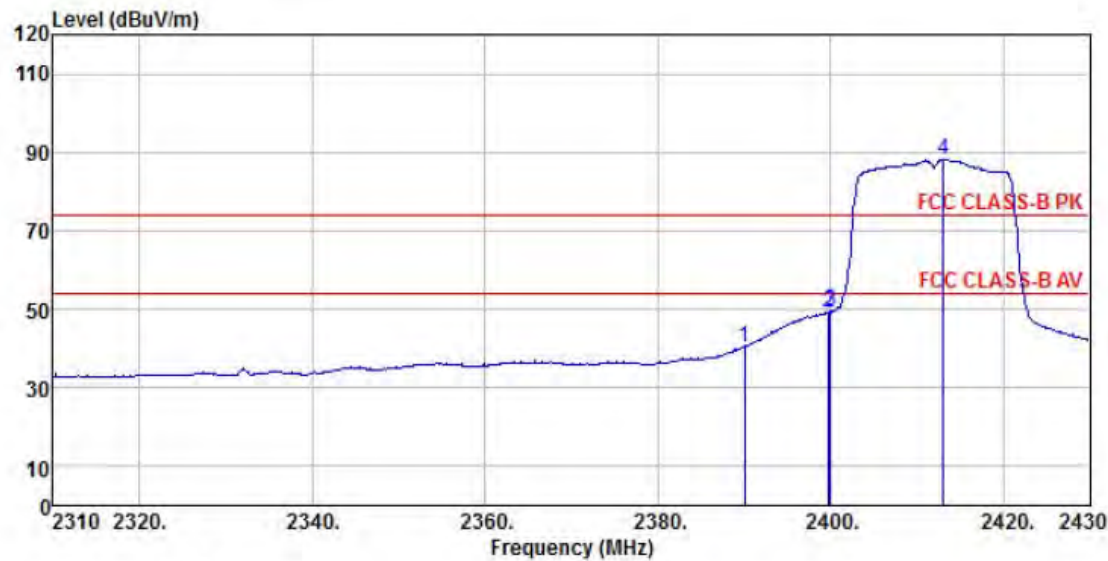


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line
	Limit	Remark					
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.04	60.88	27.58	7.13	38.34	57.25	74.00
2	2399.76	73.57	27.58	7.13	38.34	69.94	74.00
3	2400.00	73.33	27.58	7.13	38.34	69.70	74.00
4	2413.20	101.16	27.54	7.21	38.34	97.57	74.00

Detector mode: Average

Polarity: Vertical



Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

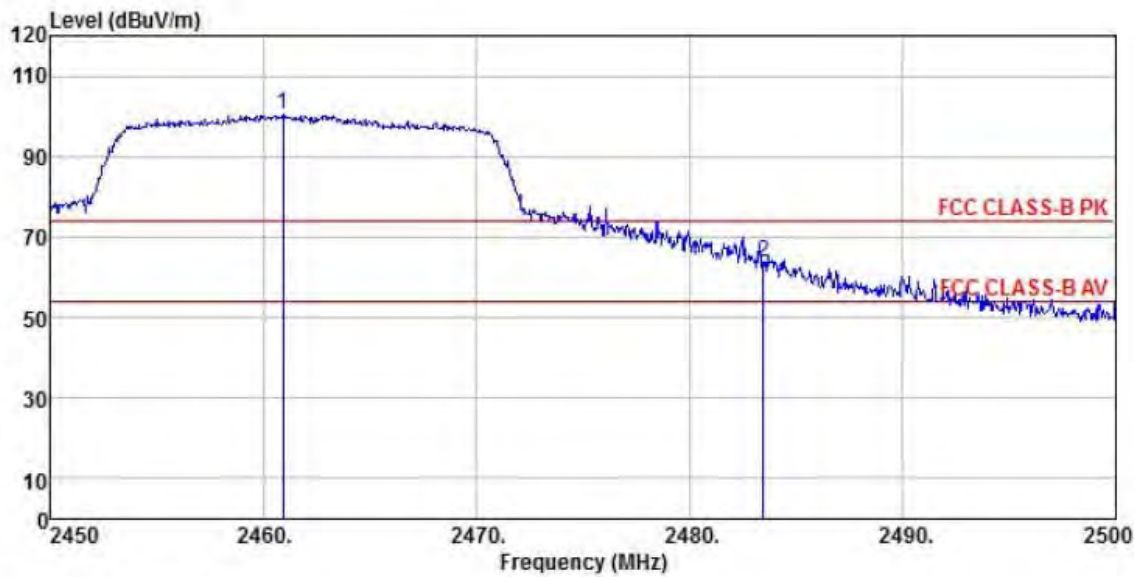
ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Level Line Limit Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.04	43.99	27.58	7.13	38.34	40.36	54.00	-13.64	Average
2	2399.76	52.83	27.58	7.13	38.34	49.20	54.00	-4.80	Average
3	2400.00	53.23	27.58	7.13	38.34	49.60	54.00	-4.40	Average
4 pp	2413.08	91.74	27.54	7.21	38.34	88.15	54.00	34.15	Average

802.11n20 (Ch11)

Detector mode: Peak

Polarity: Horizontal

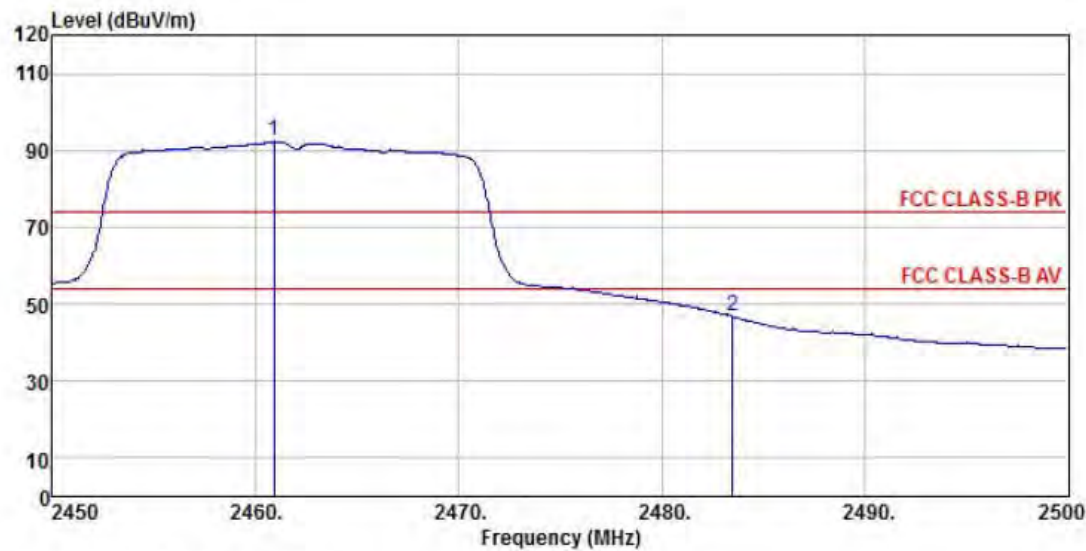


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	pp	2460.90	104.08	27.49	7.39	38.32	100.64	74.00	26.64	Peak	
2		2483.50	67.33	27.52	7.41	38.31	63.95	74.00	-10.05	Peak	

Detector mode: Average

Polarity: Horizontal

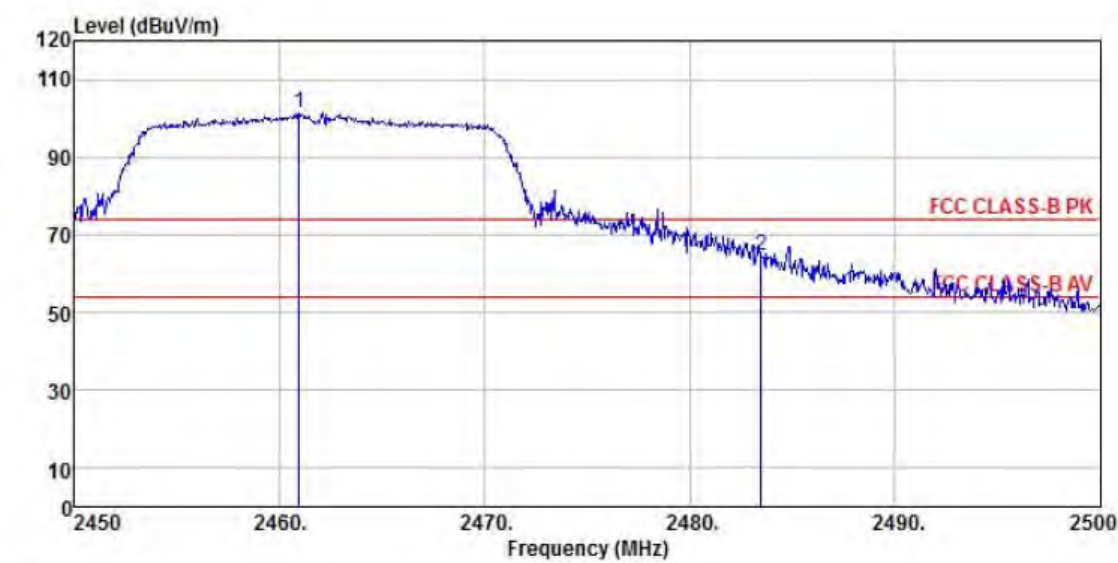


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

		ReadAntenna		Cable Preamp		Limit Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 pp 2460.90	95.86	27.49	7.39	38.32	92.42	54.00	38.42	Average	
2 2483.50	50.14	27.52	7.41	38.31	46.76	54.00	-7.24	Average	

Detector mode: Peak

Polarity: Vertical

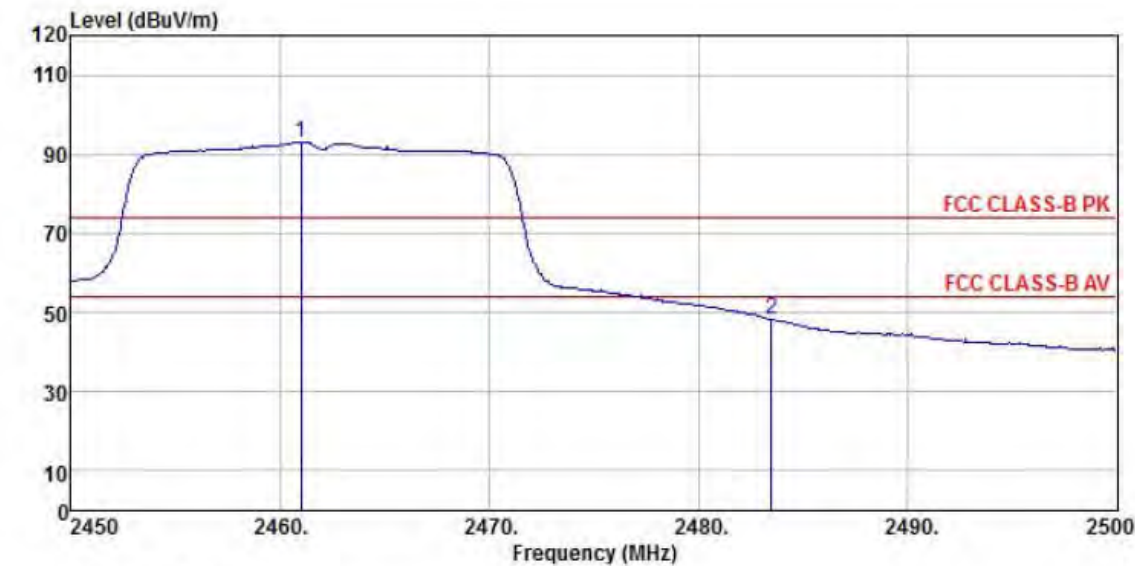


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

ReadAntenna		Cable Preamp		Limit Over	
Freq	Level	Factor	Loss Factor	Level	Line Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m dBuV/m dB
1 pp 2460.95	104.88	27.49	7.39	38.32	101.44 74.00 27.44 Peak
2 2483.50	67.84	27.52	7.41	38.31	64.46 74.00 -9.54 Peak

Detector mode: Average

Polarity: Vertical



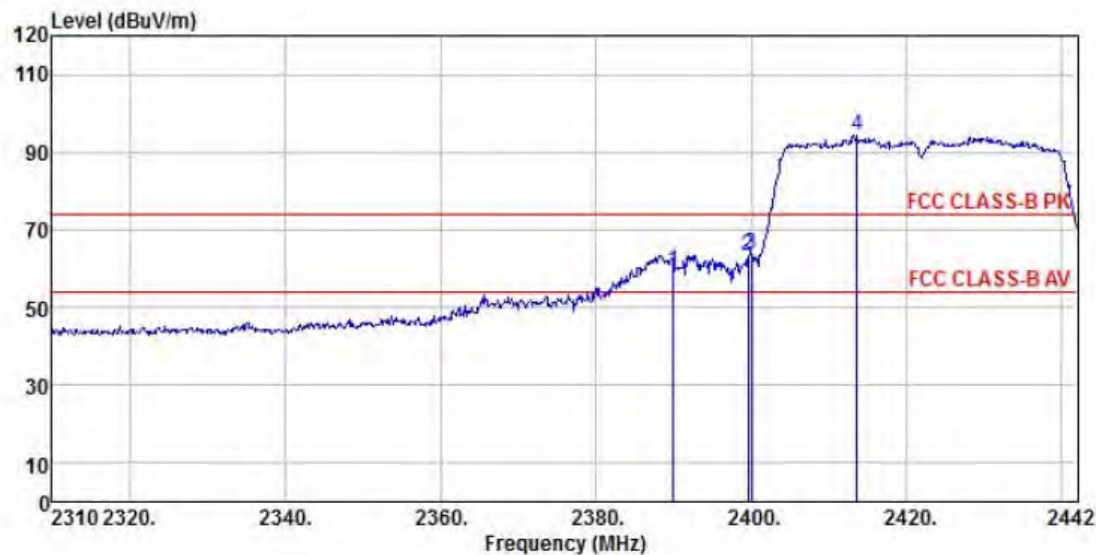
Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

		ReadAntenna		Cable Preamp		Limit Over			
Freq		Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 pp 2461.00	96.47	27.49	7.39	38.32	93.03	54.00	39.03	Average	
2 2483.50	51.71	27.52	7.41	38.31	48.33	54.00	-5.67	Average	

802.11n40 (Ch3)

Detector mode: Peak

Polarity: Horizontal

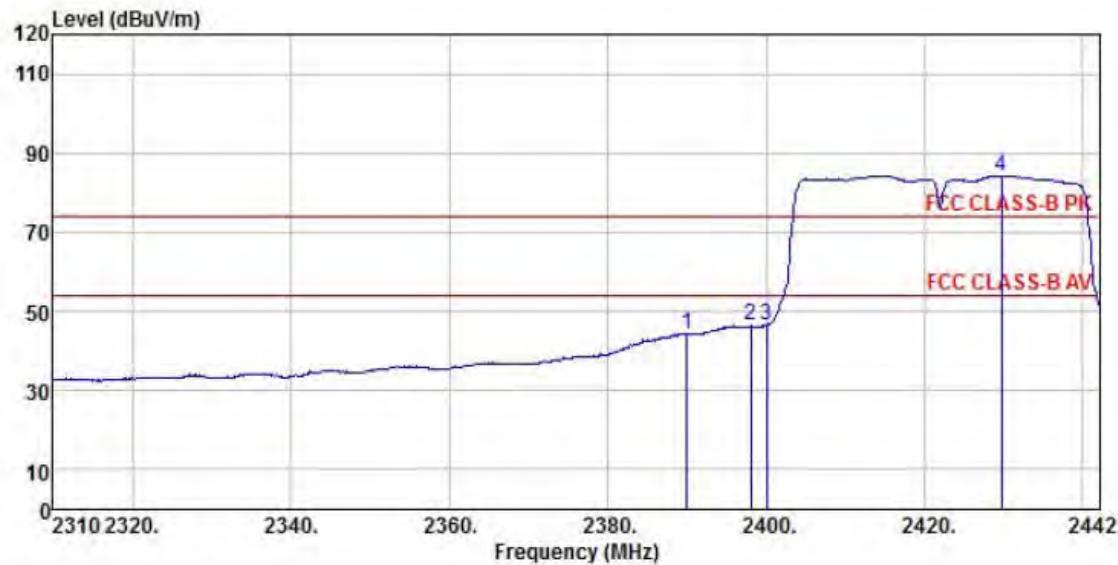


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	2389.99	62.88	27.58	7.13	38.34	59.25	74.00	-14.75	Peak		
2	2399.63	67.16	27.58	7.13	38.34	63.53	74.00	-10.47	Peak		
3	2400.02	67.33	27.58	7.13	38.34	63.70	74.00	-10.30	Peak		
4 pp	2413.62	97.76	27.54	7.21	38.34	94.17	74.00	20.17	Peak		

Detector mode: Average

Polarity: Horizontal

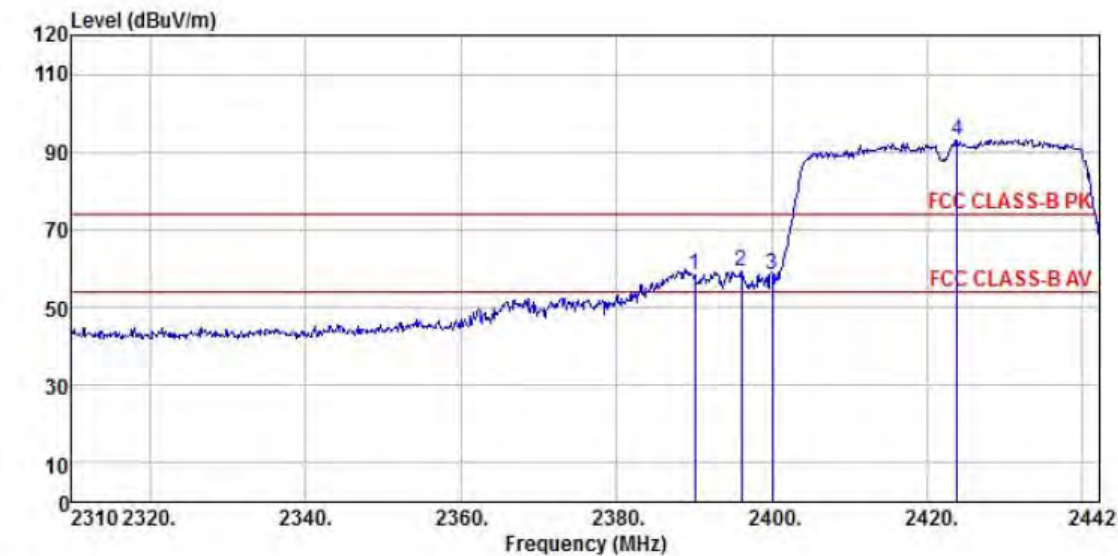


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2389.99	47.97	27.58	7.13	38.34	44.34	54.00	-9.66 Average
2	2398.04	50.25	27.58	7.13	38.34	46.62	54.00	-7.38 Average
3	2400.02	50.08	27.58	7.13	38.34	46.45	54.00	-7.55 Average
4 pp	2429.72	87.89	27.50	7.29	38.33	84.35	54.00	30.35 Average

Detector mode: Peak

Polarity: Vertical

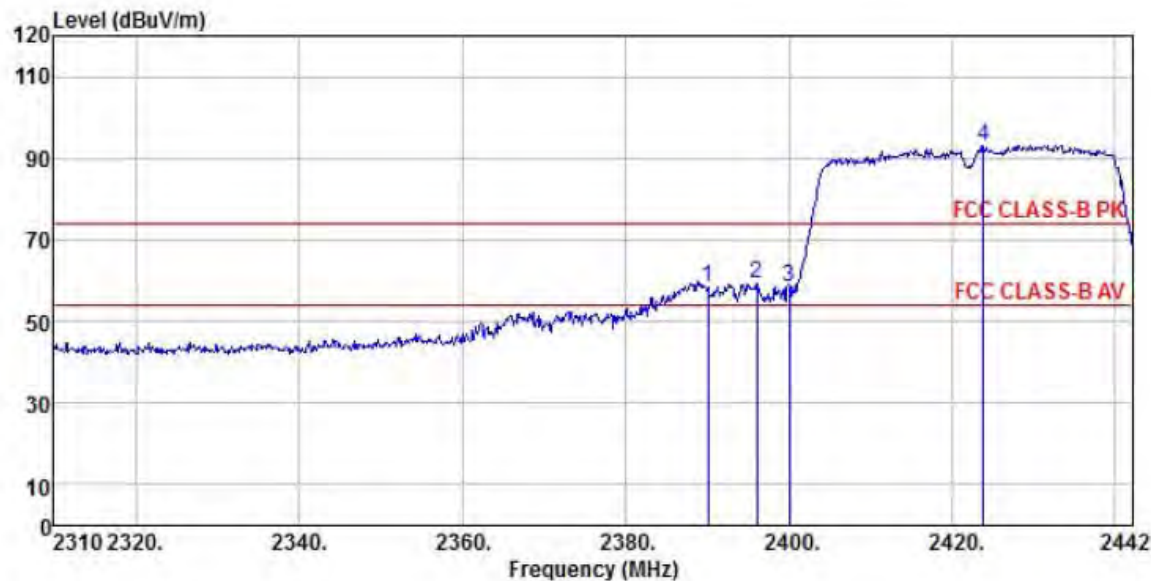


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

		ReadAntenna		Cable Preamp		Limit		Over
		Freq	Level	Factor	Loss Factor	Level	Line	Limit Remark
MHz		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.12	62.10	27.58	7.13	38.34	58.47	74.00	-15.53 Peak
2	2396.06	62.77	27.58	7.13	38.34	59.14	74.00	-14.86 Peak
3	2400.02	61.92	27.58	7.13	38.34	58.29	74.00	-15.71 Peak
4pp	2423.78	96.61	27.50	7.29	38.33	93.07	74.00	19.07 Peak

Detector mode: Average

Polarity: Vertical



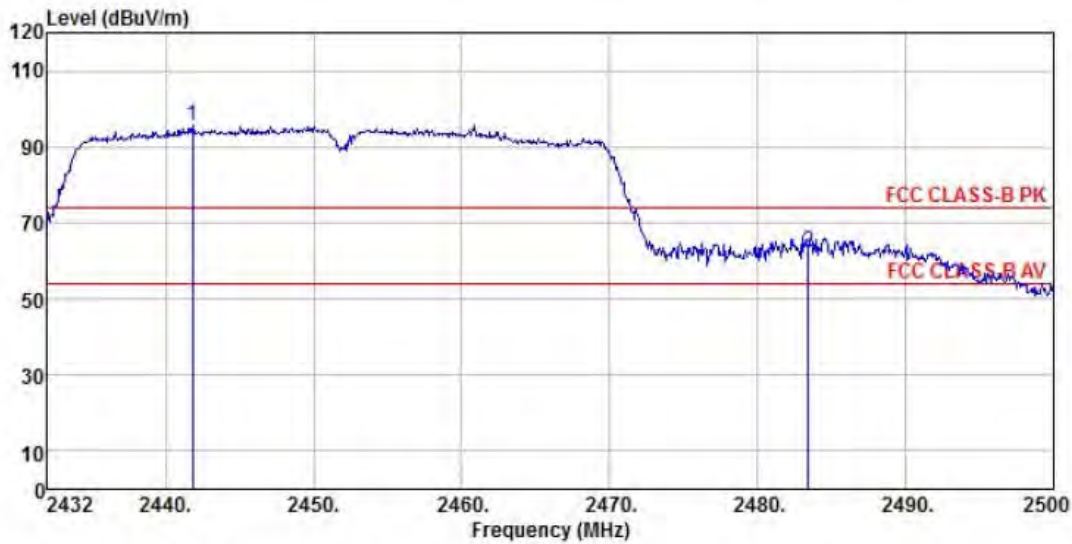
Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

		ReadAntenna		Cable Preamp		Limit		Over	
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.12	62.10	27.58	7.13	38.34	58.47	74.00	-15.53	Peak
2	2396.06	62.77	27.58	7.13	38.34	59.14	74.00	-14.86	Peak
3	2400.02	61.92	27.58	7.13	38.34	58.29	74.00	-15.71	Peak
4 pp	2423.78	96.61	27.50	7.29	38.33	93.07	74.00	19.07	Peak

802.11n40 (Ch9)

Detector mode: Peak

Polarity: Horizontal

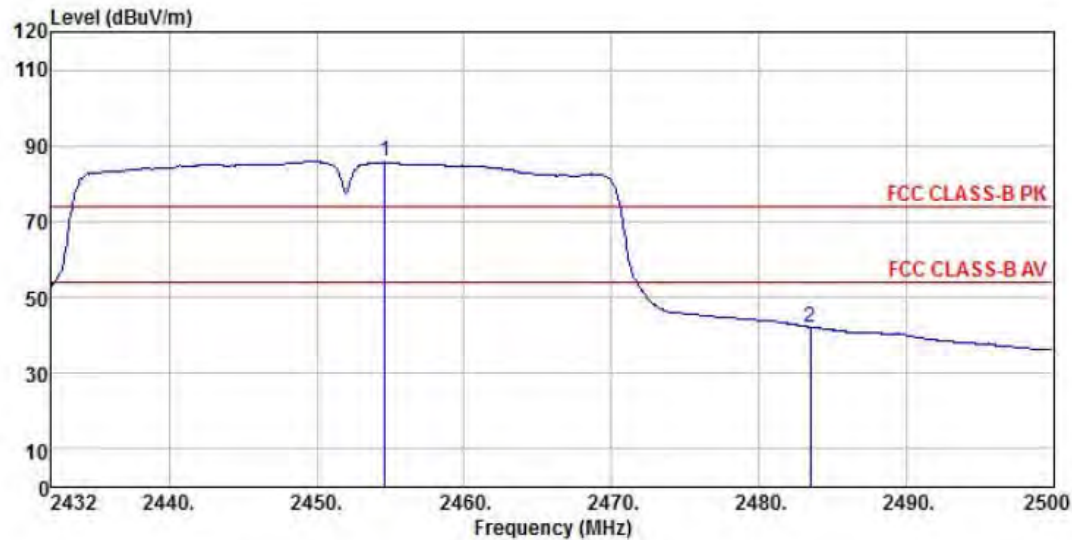


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2441.79	99.35	27.46	7.37	38.32	95.86	74.00 21.86 Peak
2	2483.48	66.01	27.52	7.41	38.31	62.63	74.00 -11.37 Peak

Detector mode: Average

Polarity: Horizontal

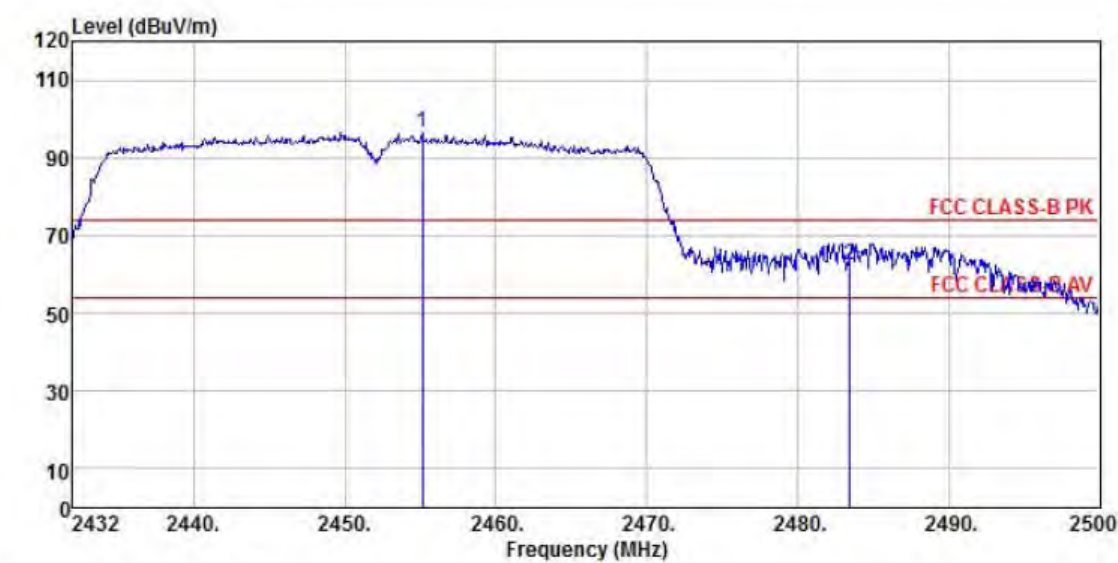


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
Freq		Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB			
1 pp	2454.64	89.31	27.46	7.39	38.32	85.84	54.00	31.84	Average		
2	2483.54	45.46	27.52	7.41	38.31	42.08	54.00	-11.92	Average		

Detector mode: Peak

Polarity: Vertical

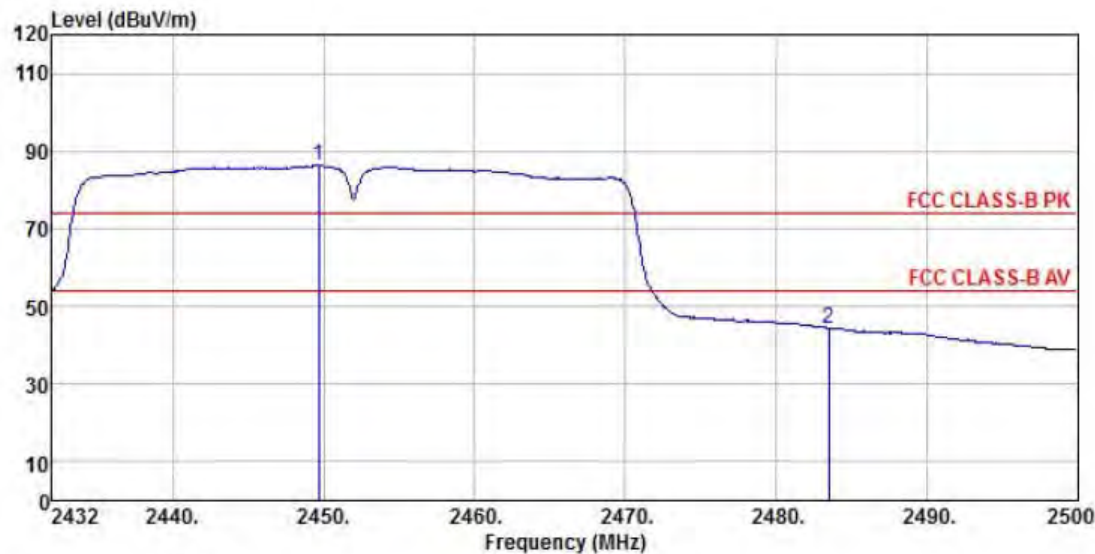


Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 °C / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

ReadAntenna		Cable Preamp		Limit Over			
Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	2455.12	99.92	27.49	7.39	38.32	96.48	74.00 22.48 Peak
2	2483.48	65.73	27.52	7.41	38.31	62.35	74.00 -11.65 Peak

Detector mode: Average

Polarity: Vertical



Site : chamber
Condition : FCC CLASS-B PK 3m BBHA9120D(942) VERTICAL
EUT :
Model Name : F800
Temp/Humi : 18 ℃ / 48 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

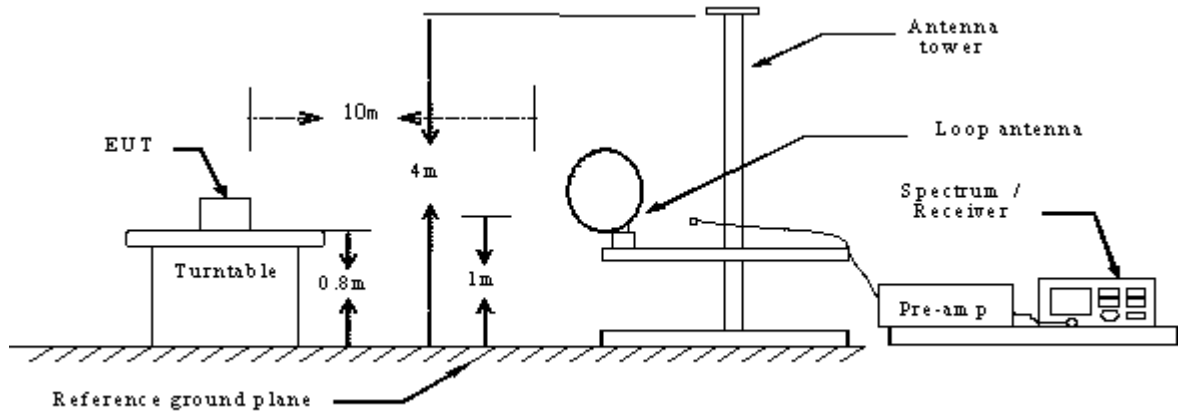
ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Level Line Limit Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	pp 2449.68	90.01	27.46	7.37	38.32	86.52	54.00	32.52 Average
2	2483.54	47.75	27.52	7.41	38.31	44.37	54.00	-9.63 Average

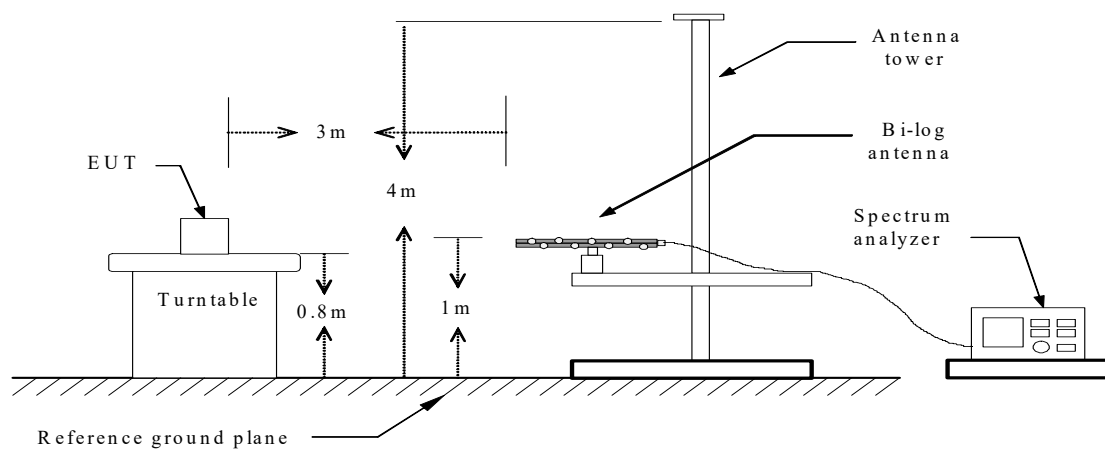
10. SPURIOUS EMISSIONS (RADIATION)

10.1 TEST SETUP

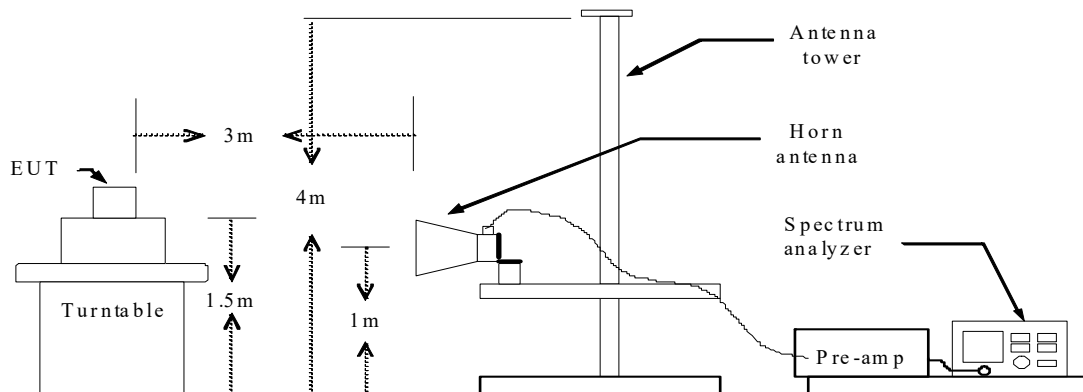
Radiated Spurious Measurement: below 30MHz



Radiated Spurious Measurement: below 1GHz



Radiated Spurious Measurement: above 1GHz



10.2 LIMITS

Frequency (MHz)	Limits (uV/m)	Limits(dBuV/m) At 3m	Measured Distance (m)
0.009-0.490	2400/F(KHz)	128.5-93.80	300
0.490-1.705	24000/F(KHz)	73.80-63.00	30
1.705-30.0	30	69.5	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Notes: the calculate formula for below 30MHz

$$L2 = 20\lg (L1) + 40\lg (d1/d2)$$

L2: is the specified limit in dB microvolts per metre at distance d2.

L1: is the specified limit in microvolts per metre at distance d1.

For example:

L1 = 2400/9 (uV/m), d1 = 300 (m), d2 = 3 (m), so L2 as follows:

$$20\lg (2400/9) + 40\lg (300/3) = 128.5(\text{dBuV/m})$$

10.3 TEST PROCEDURE

Radiated Emission (9 kHz - 30 MHz) :

Spurious emissions from the EUT are measured in the frequency range of 9 kHz to 30 MHz using a tuned receiver and a shielded loop antenna. The antenna was positioned 3 meters horizontally from the EUT. The RBW of the spectrum analyzer is set to 200Hz(measured frequency range was 9KHz~150KHz) or 9KHz(measured frequency range was 150KHz~30MHz).Measurements have been made in all three orthogonal axes and the shielded loop antenna was rotated to locate the maximum of the emissions. The emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz (these two bands employing a average detector).

Radiated Emission (30 MHz – 1000 MHz):

According to description of ANSI C63.4: 2009 sec.13.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyzer or receiver. The Quasi-peak detector is used and RBW is set to 120kHz.The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyzer or receiver.

Radiated Emission (Above 1 GHz):

According to description of ANSI C63.4: 2009 sec.13.4, the preliminary radiated emissions measurement were carried out. The preliminary radiated measurements were performed at the measurement distance that specified for compliance to determine the emission characteristics of the EUT. The EUT configuration (in X, Y and Z axis), cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for the final radiated emissions measurements. The measurement is carried out using a spectrum analyzer or receiver. The spectrum analyzer scans from 1GHz to 25GHz (higher than the 10th harmonic of the carrier). The peak detector is used for Peak limit and RBW is set to 1MHz ,VBW $\geq$ 3RBW. The peak detector is used for Average limit and RBW is set to 1MHz ,VBW is not smaller than 1/T, T = to the shortest pulse width. The antenna height and turn table rotation is adjusted until the maximum power value is founded on spectrum analyzer or receiver.

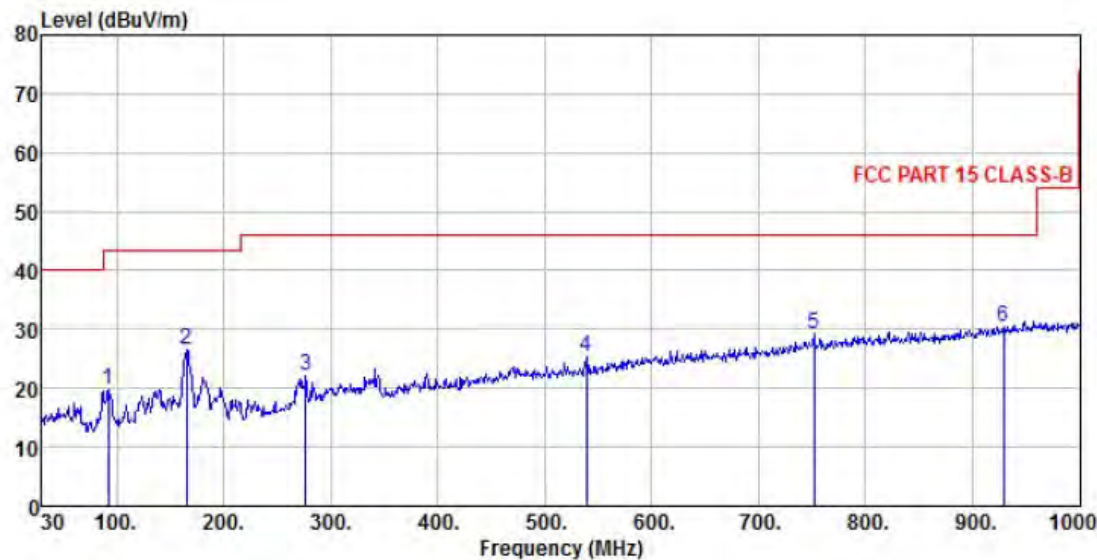
10.4 RESULTS & PERFORMANCE

From 9KHz to 30MHz:

The test data was 20dB lower than the permissible limit was not recorded in the report.
802.11b, traffic mode; Channel 1

From 30MHz to 1GHz:

802.11b Ch1 Polarity: Horizontal

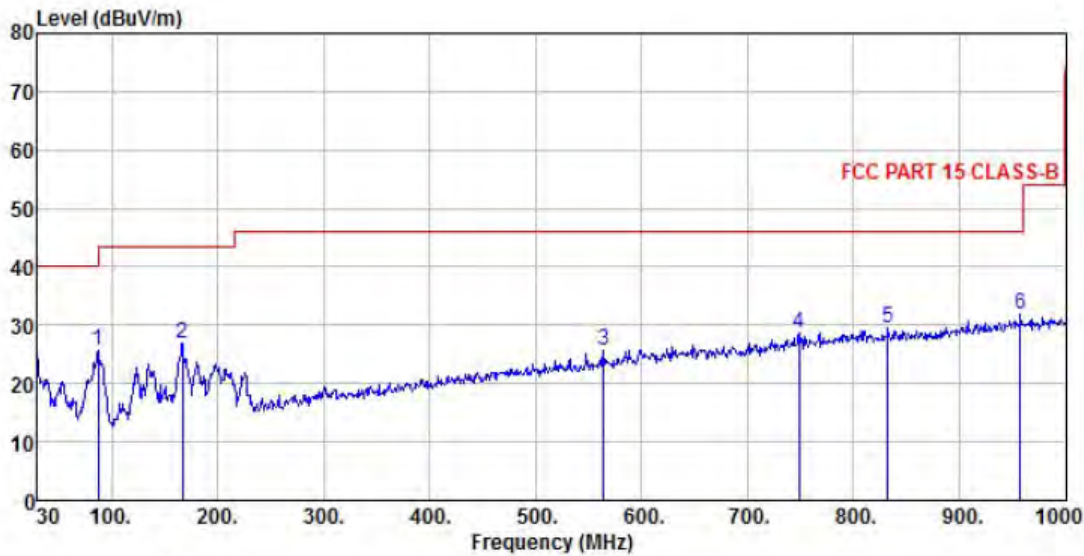


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
Freq		Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
MHz		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	92.08	8.99	9.52	1.14	0.00	19.65	43.50	-23.85	Peak		
2	164.83	11.31	13.55	1.76	0.00	26.62	43.50	-16.88	Peak		
3	276.38	7.39	12.67	2.21	0.00	22.27	46.00	-23.73	Peak		
4	539.25	4.50	17.65	3.11	0.00	25.26	46.00	-20.74	Peak		
5	751.68	4.21	21.35	3.79	0.00	29.35	46.00	-16.65	Peak		
6 pp	929.19	3.39	23.03	4.10	0.00	30.52	46.00	-15.48	Peak		

802.11b Ch1

Polarity: Vertical

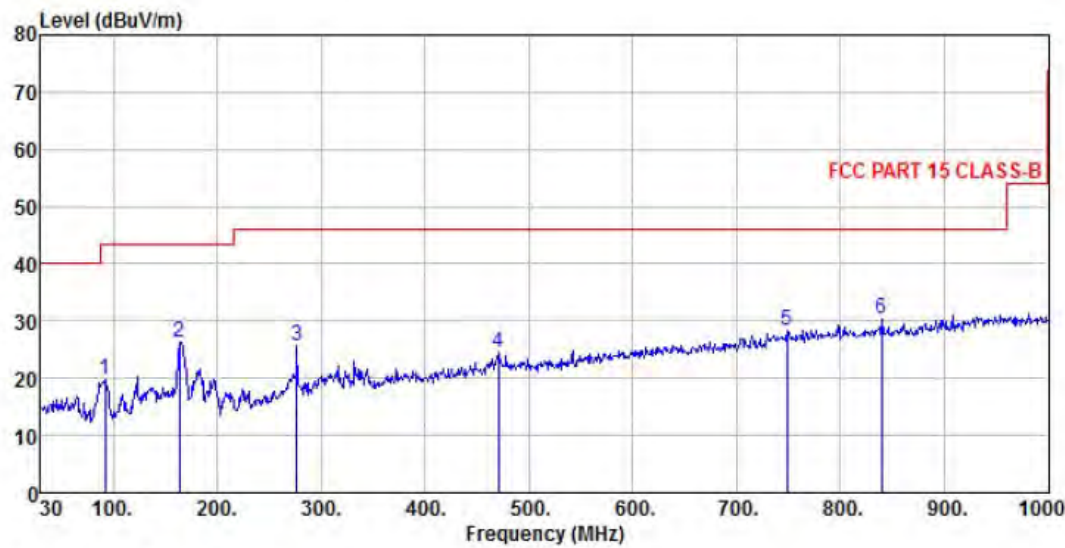


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	87.23	15.51	9.09	1.09	0.00	25.69	40.00 -14.31 Peak
2	166.77	11.78	13.44	1.79	0.00	27.01	43.50 -16.49 Peak
3	564.47	4.31	18.26	3.24	0.00	25.81	46.00 -20.19 Peak
4	748.77	3.59	21.29	3.80	0.00	28.68	46.00 -17.32 Peak
5	832.19	3.63	21.97	3.95	0.00	29.55	46.00 -16.45 Peak
6 pp	957.32	4.39	23.43	4.19	0.00	32.01	46.00 -13.99 Peak

802.11b Ch6

Polarity: Horizontal

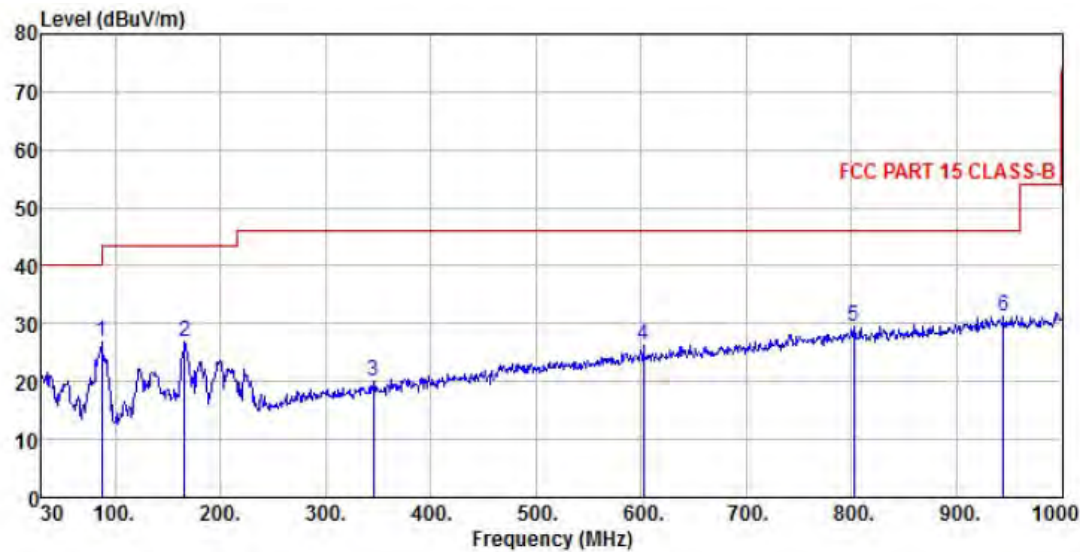


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m dB
1	92.08	9.08	9.52	1.14	0.00	19.74	43.50 -23.76 Peak
2	163.86	11.02	13.66	1.74	0.00	26.42	43.50 -17.08 Peak
3	276.38	10.93	12.67	2.21	0.00	25.81	46.00 -20.19 Peak
4	470.38	4.95	16.74	2.93	0.00	24.62	46.00 -21.38 Peak
5	748.77	3.31	21.29	3.80	0.00	28.40	46.00 -17.60 Peak
6 pp	839.95	4.48	22.01	3.96	0.00	30.45	46.00 -15.55 Peak

802.11b Ch6

Polarity: Vertical

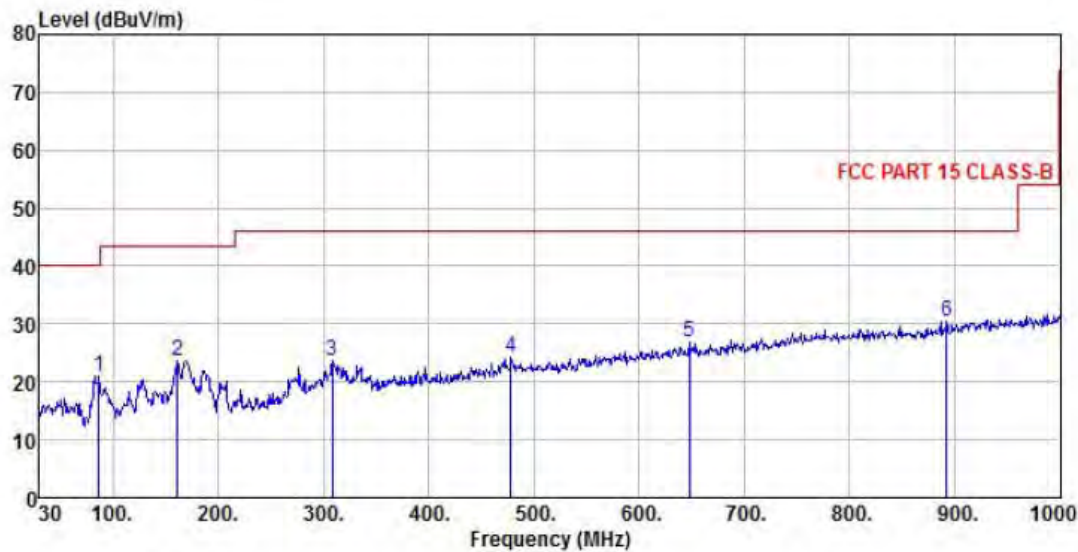


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH6
Memo :

	ReadAntenna				Cable Preamp				Limit		Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark			
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	pp	87.23	16.60	9.09	1.09	0.00	26.78	40.00	-13.22	Peak		
2		165.80	11.49	13.55	1.77	0.00	26.81	43.50	-16.69	Peak		
3		345.25	3.48	14.17	2.54	0.00	20.19	46.00	-25.81	Peak		
4		602.30	3.89	19.16	3.35	0.00	26.40	46.00	-19.60	Peak		
5		802.12	3.98	21.77	3.81	0.00	29.56	46.00	-16.44	Peak		
6		944.71	3.79	23.35	4.14	0.00	31.28	46.00	-14.72	Peak		

802.11b Ch11

Polarity: Horizontal

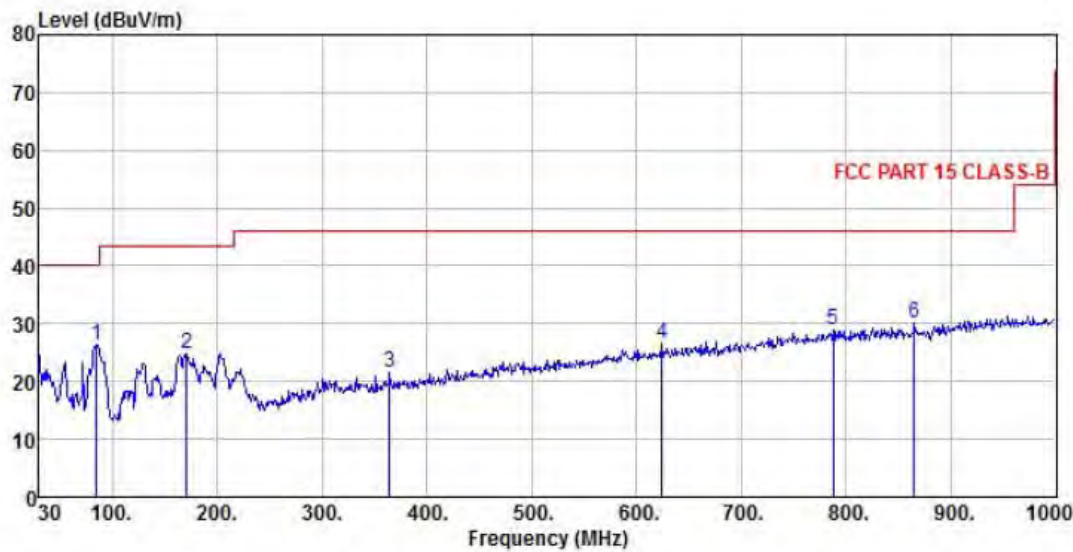


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

		ReadAntenna		Cable Preamplifier		Limit		Over			
		Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
		MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1		86.26	11.06	8.89	1.09	0.00	21.04	40.00	-18.96	Peak	
2		160.95	8.25	13.77	1.69	0.00	23.71	43.50	-19.79	Peak	
3		308.39	7.85	13.37	2.51	0.00	23.73	46.00	-22.27	Peak	
4		478.14	4.48	16.85	2.99	0.00	24.32	46.00	-21.68	Peak	
5		647.89	3.66	19.56	3.53	0.00	26.75	46.00	-19.25	Peak	
6	pp	892.33	3.94	22.42	4.03	0.00	30.39	46.00	-15.61	Peak	

802.11b Ch11

Polarity: Vertical

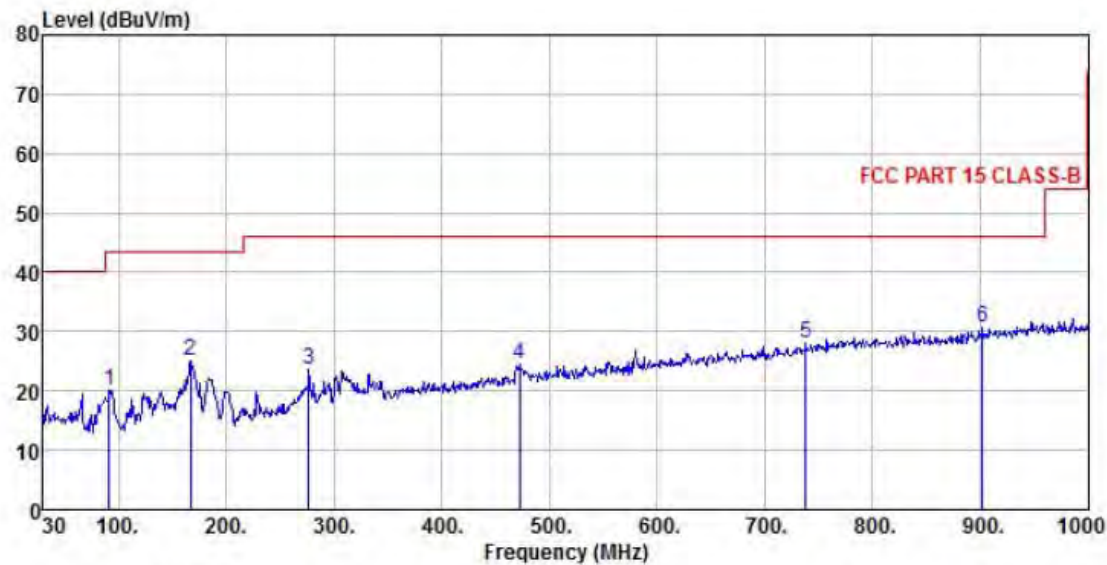


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11b CH11
Memo :

	Read	Antenna	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	pp	84.32	16.63	8.68	1.09	0.00	26.40	40.00 -13.60 Peak
2		170.65	9.90	13.15	1.86	0.00	24.91	43.50 -18.59 Peak
3		364.65	4.38	14.49	2.68	0.00	21.55	46.00 -24.45 Peak
4		624.61	3.77	19.22	3.44	0.00	26.43	46.00 -19.57 Peak
5		787.57	3.53	21.58	3.83	0.00	28.94	46.00 -17.06 Peak
6		865.17	4.12	22.05	3.99	0.00	30.16	46.00 -15.84 Peak

802.11g Ch1

Polarity: Horizontal

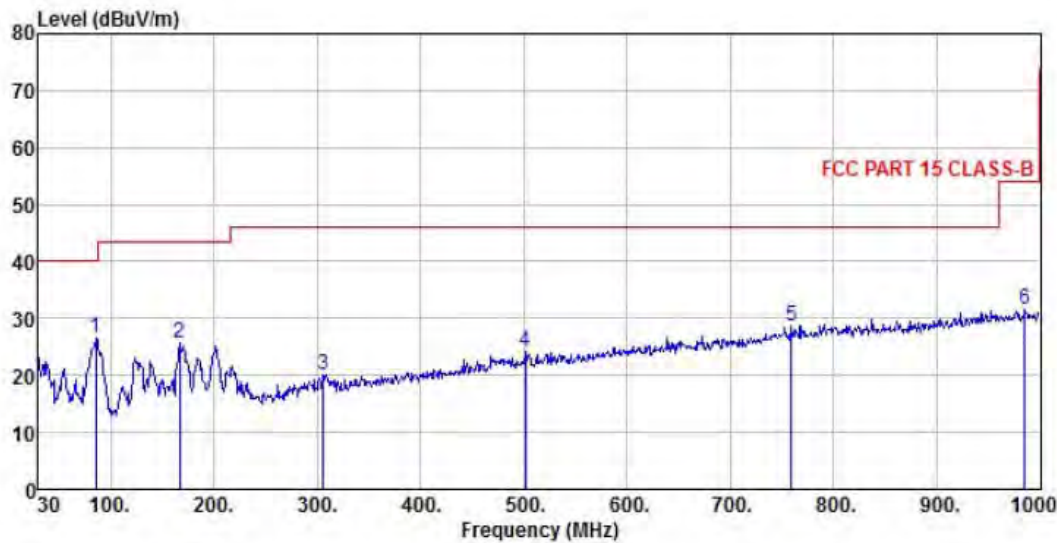


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

		ReadAntenna		Cable Preamp		Limit Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	91.11	9.55	9.30	1.11	0.00	19.96	43.50	-23.54	Peak
2	166.77	9.77	13.44	1.79	0.00	25.00	43.50	-18.50	Peak
3	276.38	8.80	12.67	2.21	0.00	23.68	46.00	-22.32	Peak
4	472.32	4.78	16.74	2.94	0.00	24.46	46.00	-21.54	Peak
5	738.10	3.44	21.00	3.73	0.00	28.17	46.00	-17.83	Peak
6 pp	902.03	4.02	22.61	4.06	0.00	30.69	46.00	-15.31	Peak

802.11g Ch1

Polarity: Vertical

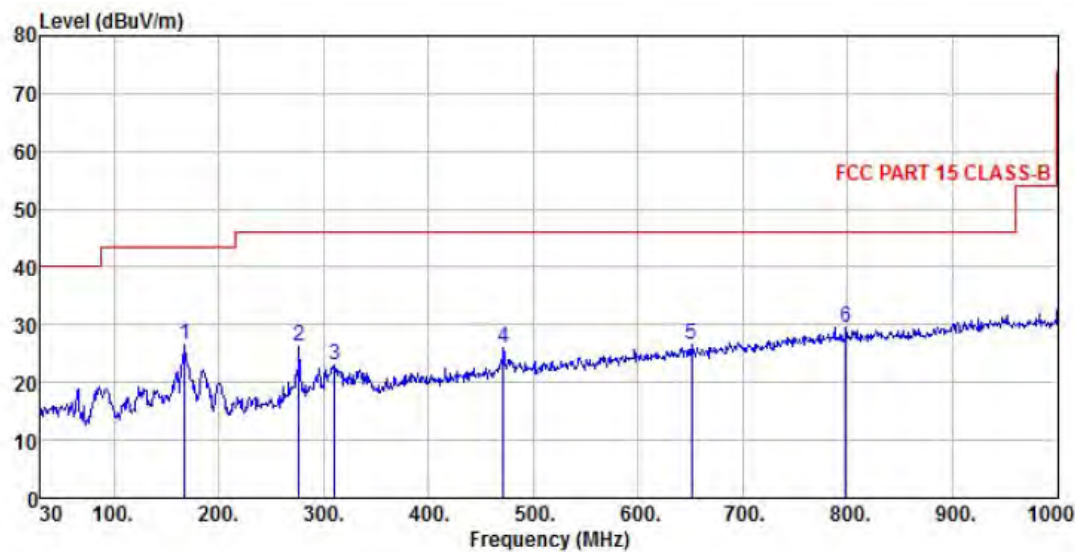


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	85.29	16.58	8.89	1.09	0.00	26.56	40.00 -13.44 Peak
2	166.77	10.43	13.44	1.79	0.00	25.66	43.50 -17.84 Peak
3	305.48	4.18	13.33	2.52	0.00	20.03	46.00 -25.97 Peak
4	501.42	4.17	17.06	3.04	0.00	24.27	46.00 -21.73 Peak
5	759.44	3.63	21.37	3.71	0.00	28.71	46.00 -17.29 Peak
6	985.45	3.77	23.43	4.31	0.00	31.51	54.00 -22.49 Peak

802.11g Ch6

Polarity: Horizontal

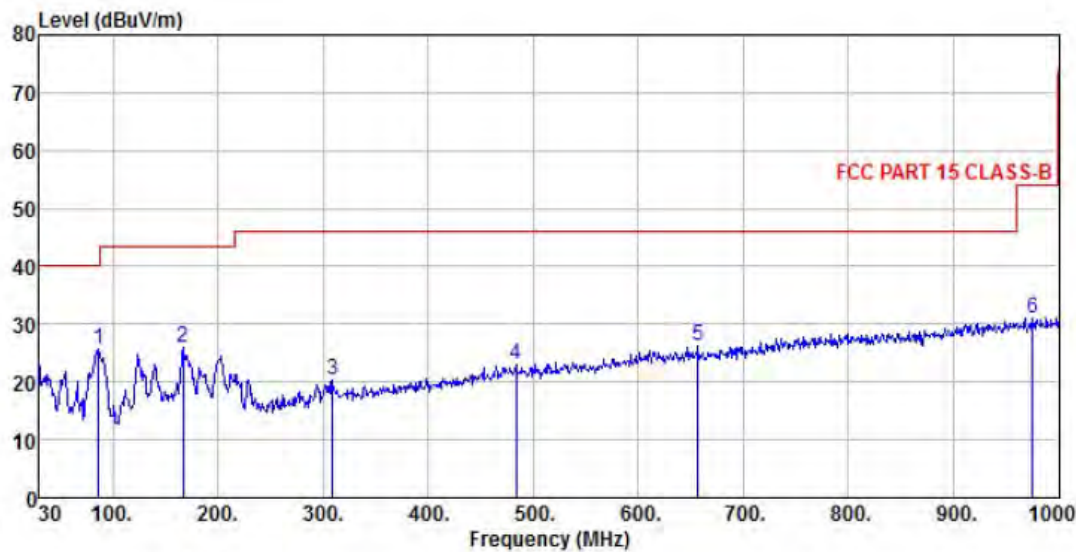


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH6
Memo :

ReadAntenna		Cable Preamp		Limit		Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	167.74	11.18	13.44	1.81	0.00	26.43	43.50 -17.07 Peak
2	276.38	11.27	12.67	2.21	0.00	26.15	46.00 -19.85 Peak
3	310.33	6.98	13.42	2.51	0.00	22.91	46.00 -23.09 Peak
4	471.35	6.30	16.74	2.93	0.00	25.97	46.00 -20.03 Peak
5	650.80	3.35	19.61	3.52	0.00	26.48	46.00 -19.52 Peak
6	798.24	3.92	21.76	3.81	0.00	29.49	46.00 -16.51 Peak

802.11g Ch6

Polarity: Vertical

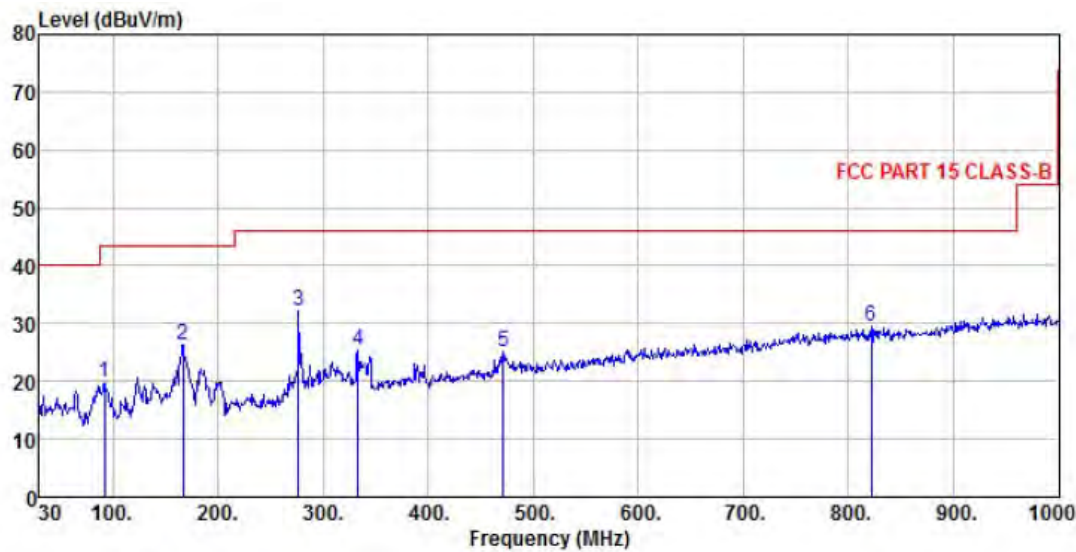


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	86.26	15.78	8.89	1.09	0.00	25.76	40.00 -14.24 Peak
2	166.77	10.71	13.44	1.79	0.00	25.94	43.50 -17.56 Peak
3	309.36	4.38	13.42	2.51	0.00	20.31	46.00 -25.69 Peak
4	483.96	3.07	16.92	3.02	0.00	23.01	46.00 -22.99 Peak
5	656.62	3.04	19.66	3.48	0.00	26.18	46.00 -19.82 Peak
6	975.75	3.42	23.43	4.26	0.00	31.11	54.00 -22.89 Peak

802.11g Ch11

Polarity: Horizontal

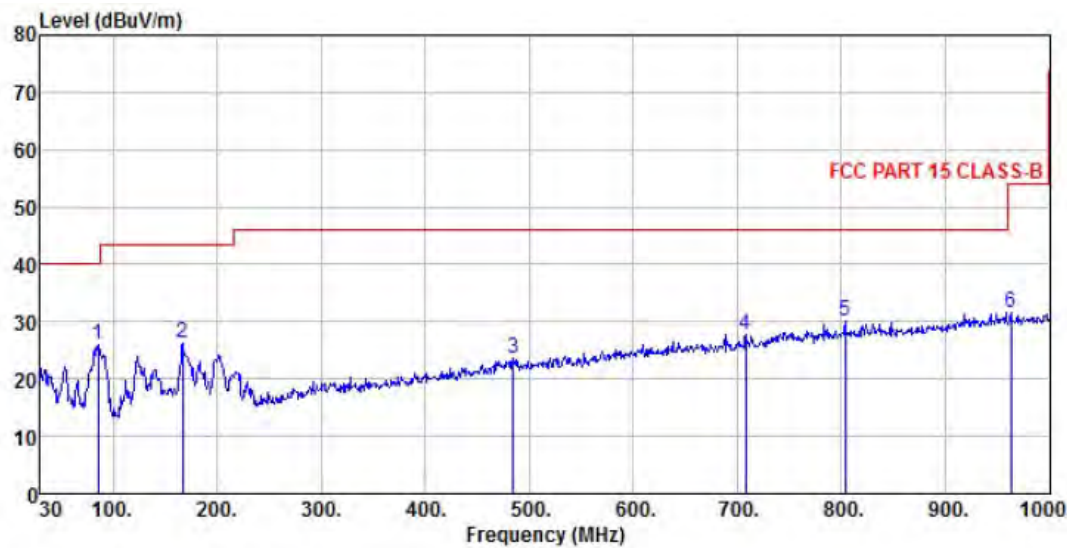


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

	ReadAntenna				Cable Preamp		Limit		Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	92.08	9.22	9.52	1.14	0.00	19.88	43.50	-23.62	Peak	
2	166.77	10.98	13.44	1.79	0.00	26.21	43.50	-17.29	Peak	
3	pp 276.38	17.28	12.67	2.21	0.00	32.16	46.00	-13.84	Peak	
4	333.61	8.90	13.96	2.49	0.00	25.35	46.00	-20.65	Peak	
5	471.35	5.52	16.74	2.93	0.00	25.19	46.00	-20.81	Peak	
6	821.52	3.78	21.90	3.77	0.00	29.45	46.00	-16.55	Peak	

802.11g Ch11

Polarity: Vertical

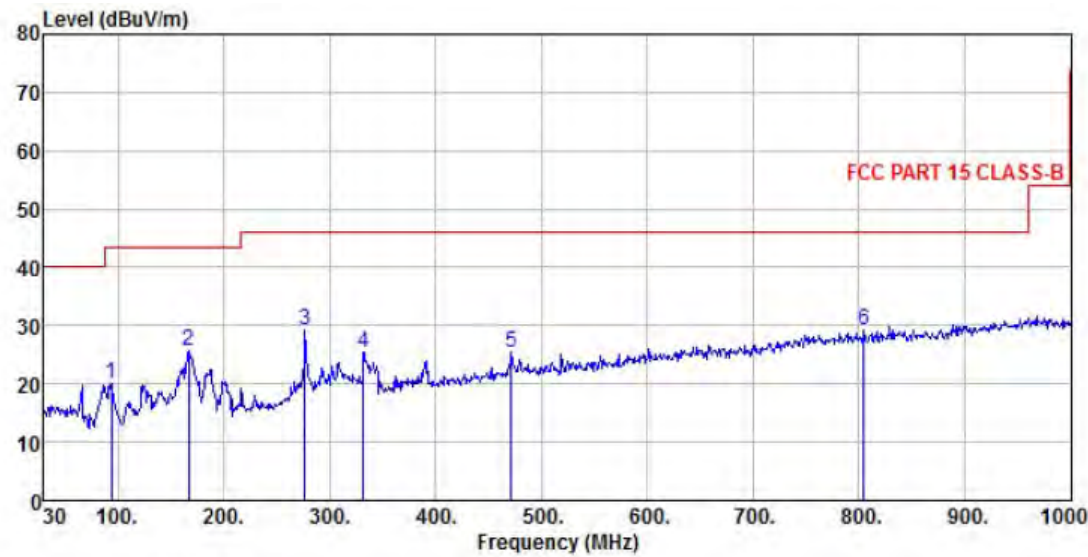


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11g CH11
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1 pp	85.29	15.85	8.89	1.09	0.00	25.83	40.00	-14.17 Peak
2	166.77	11.12	13.44	1.79	0.00	26.35	43.50	-17.15 Peak
3	484.93	3.59	16.94	3.03	0.00	23.56	46.00	-22.44 Peak
4	708.03	3.78	20.29	3.62	0.00	27.69	46.00	-18.31 Peak
5	804.06	4.42	21.79	3.82	0.00	30.03	46.00	-15.97 Peak
6	963.14	3.94	23.43	4.21	0.00	31.58	54.00	-22.42 Peak

802.11n20 Ch1

Polarity: Horizontal

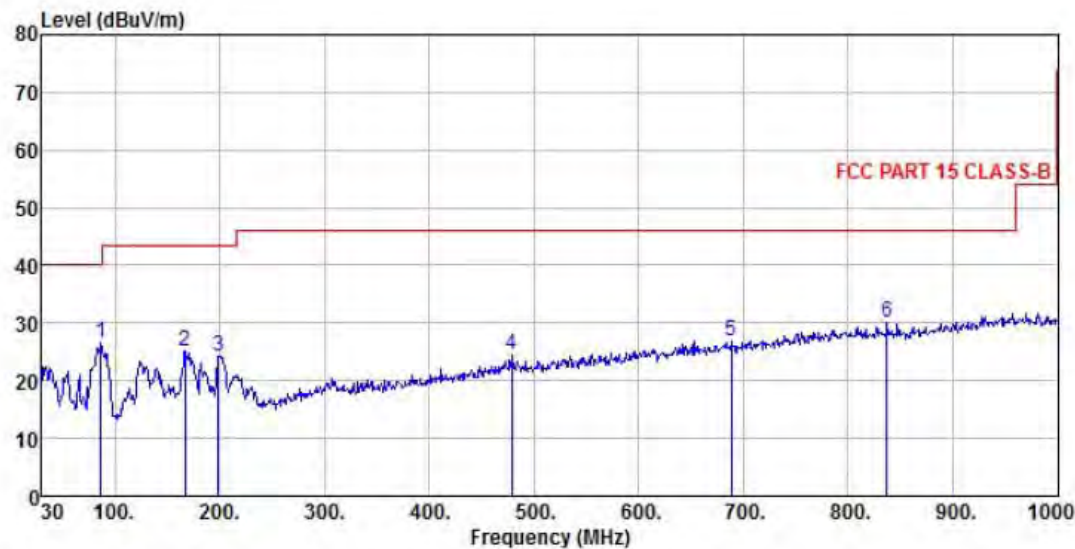


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 ℃ /50 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
Freq		Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
MHz		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	94.02	9.07	9.74	1.18	0.00	19.99	43.50	-23.51	Peak		
2	166.77	10.52	13.44	1.79	0.00	25.75	43.50	-17.75	Peak		
3	276.38	14.49	12.67	2.21	0.00	29.37	46.00	-16.63	Peak		
4	331.67	9.01	13.91	2.48	0.00	25.40	46.00	-20.60	Peak		
5	471.35	5.84	16.74	2.93	0.00	25.51	46.00	-20.49	Peak		
6	805.03	3.73	21.80	3.83	0.00	29.36	46.00	-16.64	Peak		

802.11n20 Ch1

Polarity: Vertical

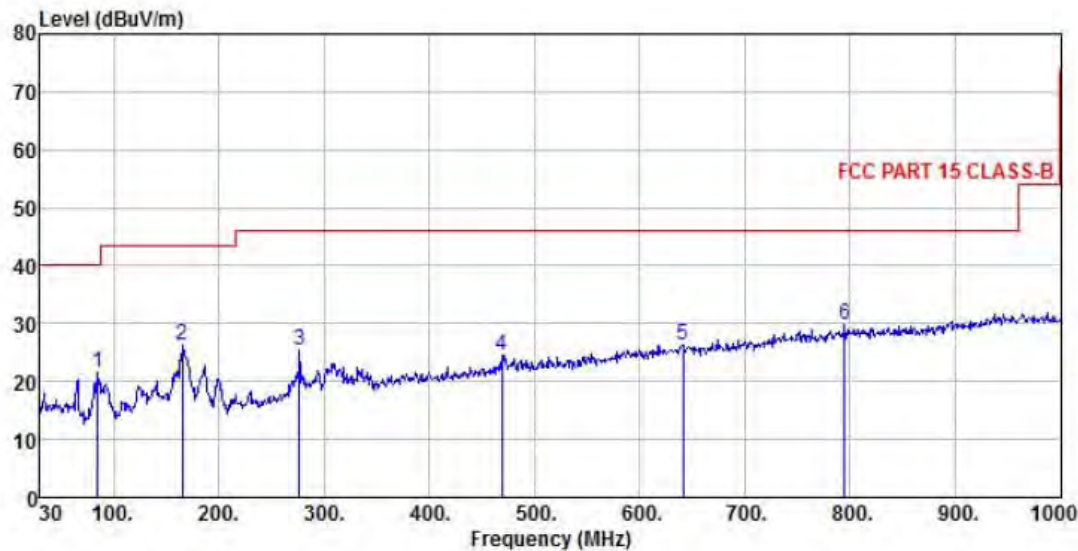


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n20 CH1
Memo :

	ReadAntenna	Cable	Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 pp	86.26	16.47	8.89	1.09	0.00	26.45	40.00	-13.55	Peak
2	166.77	9.87	13.44	1.79	0.00	25.10	43.50	-18.40	Peak
3	198.78	11.83	10.52	1.89	0.00	24.24	43.50	-19.26	Peak
4	479.11	4.50	16.89	3.00	0.00	24.39	46.00	-21.61	Peak
5	688.63	3.34	19.99	3.59	0.00	26.92	46.00	-19.08	Peak
6	837.04	4.16	21.99	3.96	0.00	30.11	46.00	-15.89	Peak

802.11n20 Ch6

Polarity: Horizontal

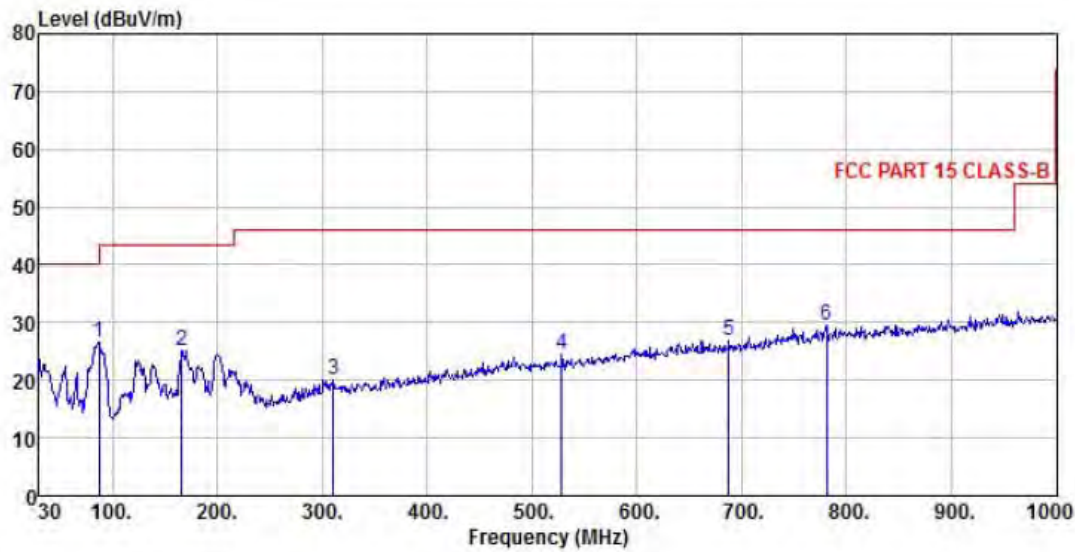


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n20 CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	84.32	11.82	8.68	1.09	0.00	21.59	40.00 -18.41 Peak
2	164.83	11.07	13.55	1.76	0.00	26.38	43.50 -17.12 Peak
3	276.38	10.55	12.67	2.21	0.00	25.43	46.00 -20.57 Peak
4	469.41	4.95	16.70	2.92	0.00	24.57	46.00 -21.43 Peak
5	641.10	3.32	19.47	3.53	0.00	26.32	46.00 -19.68 Peak
6 pp	795.33	4.29	21.70	3.82	0.00	29.81	46.00 -16.19 Peak

802.11n20 Ch6

Polarity: Vertical

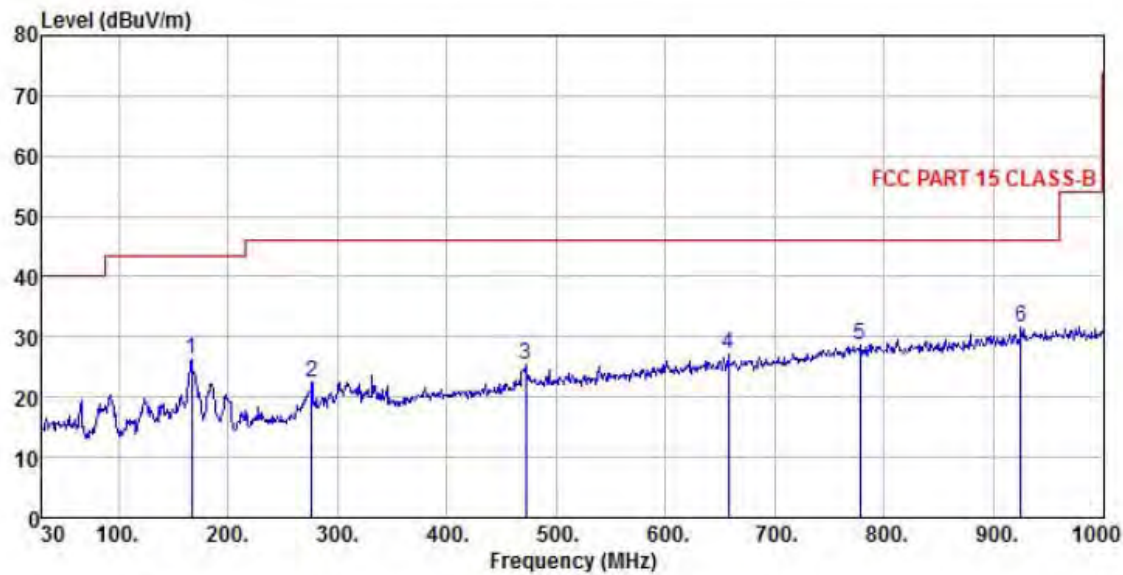


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating :
Mode : WIFI 802.11n20 CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	87.23	16.33	9.09	1.09	0.00	26.51	40.00 -13.49 Peak
2	165.80	9.90	13.55	1.77	0.00	25.22	43.50 -18.28 Peak
3	310.33	4.26	13.42	2.51	0.00	20.19	46.00 -25.81 Peak
4	528.58	3.83	17.47	3.14	0.00	24.44	46.00 -21.56 Peak
5	687.66	3.20	19.99	3.59	0.00	26.78	46.00 -19.22 Peak
6	780.78	4.17	21.50	3.82	0.00	29.49	46.00 -16.51 Peak

802.11n20 Ch11

Polarity: Horizontal



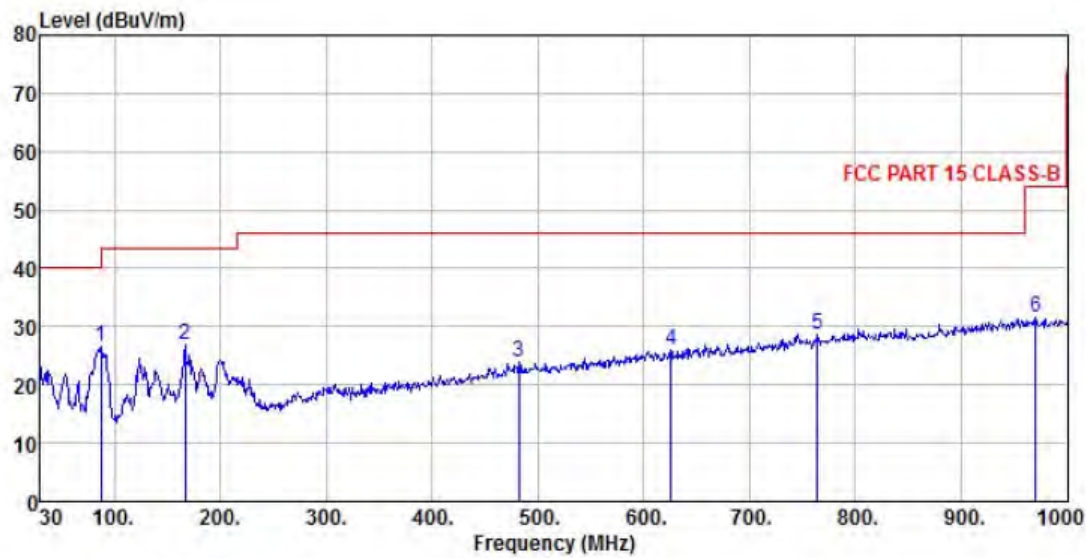
Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Level Line Limit Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	166.77	11.04	13.44	1.79	0.00	26.27	43.50	-17.23 Peak
2	276.38	7.68	12.67	2.21	0.00	22.56	46.00	-23.44 Peak
3	472.32	5.60	16.74	2.94	0.00	25.28	46.00	-20.72 Peak
4	657.59	3.91	19.66	3.47	0.00	27.04	46.00	-18.96 Peak
5	777.87	3.42	21.44	3.80	0.00	28.66	46.00	-17.34 Peak
6 pp	925.31	4.63	22.95	4.10	0.00	31.68	46.00	-14.32 Peak

802.11n20 Ch11

Polarity: Vertical



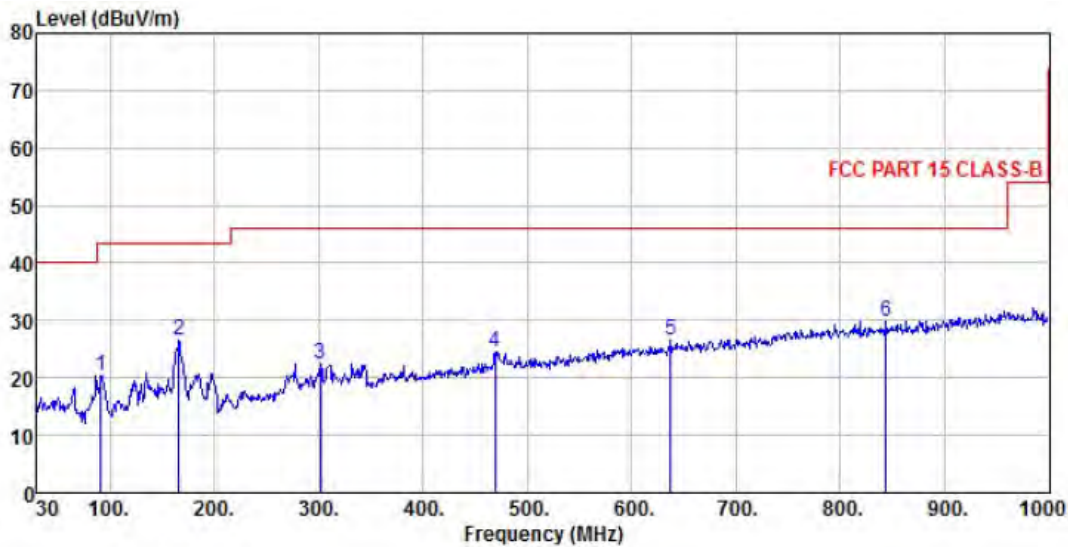
Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n20 CH11
Memo :

ReadAntenna Cable Preamp Limit Over
Freq Level Factor Loss Factor Level Line Limit Remark

	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	87.23	16.34	9.09	1.09	0.00	26.52	40.00	-13.48 Peak
2	166.77	11.73	13.44	1.79	0.00	26.96	43.50	-16.54 Peak
3	482.02	3.94	16.91	3.01	0.00	23.86	46.00	-22.14 Peak
4	625.58	3.25	19.22	3.45	0.00	25.92	46.00	-20.08 Peak
5	764.29	3.69	21.38	3.70	0.00	28.77	46.00	-17.23 Peak
6	970.90	3.90	23.43	4.22	0.00	31.55	54.00	-22.45 Peak

802.11n40 Ch3

Polarity: Horizontal

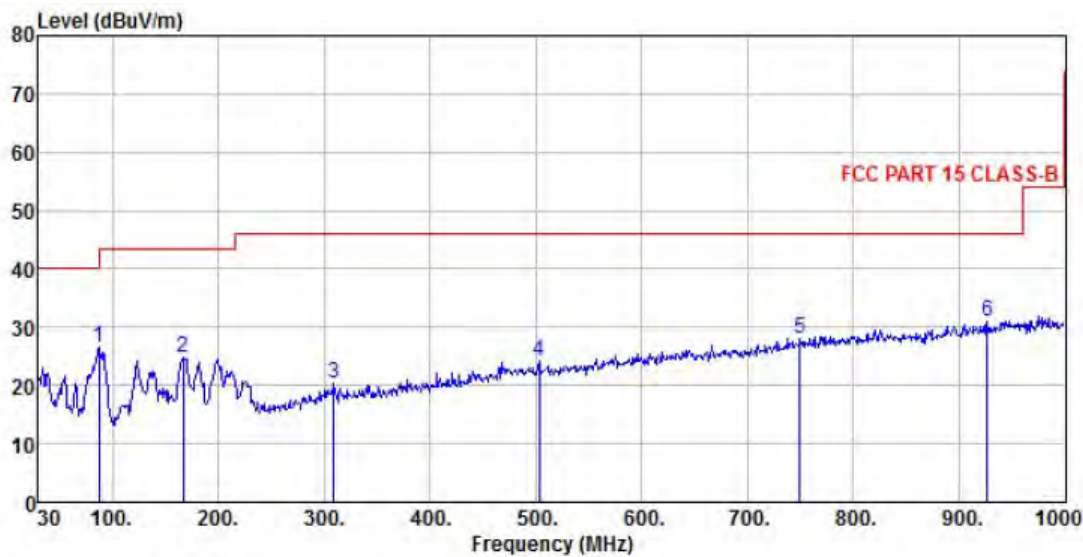


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

		ReadAntenna		Cable Preamp		Limit		Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark		
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	91.11	10.06	9.30	1.11	0.00	20.47	43.50	-23.03	Peak	
2	165.80	11.16	13.55	1.77	0.00	26.48	43.50	-17.02	Peak	
3	301.60	6.81	13.24	2.52	0.00	22.57	46.00	-23.43	Peak	
4	469.41	4.95	16.70	2.92	0.00	24.57	46.00	-21.43	Peak	
5	637.22	3.52	19.40	3.51	0.00	26.43	46.00	-19.57	Peak	
6 pp	843.83	3.83	22.03	3.97	0.00	29.83	46.00	-16.17	Peak	

802.11n40 Ch3

Polarity: Vertical

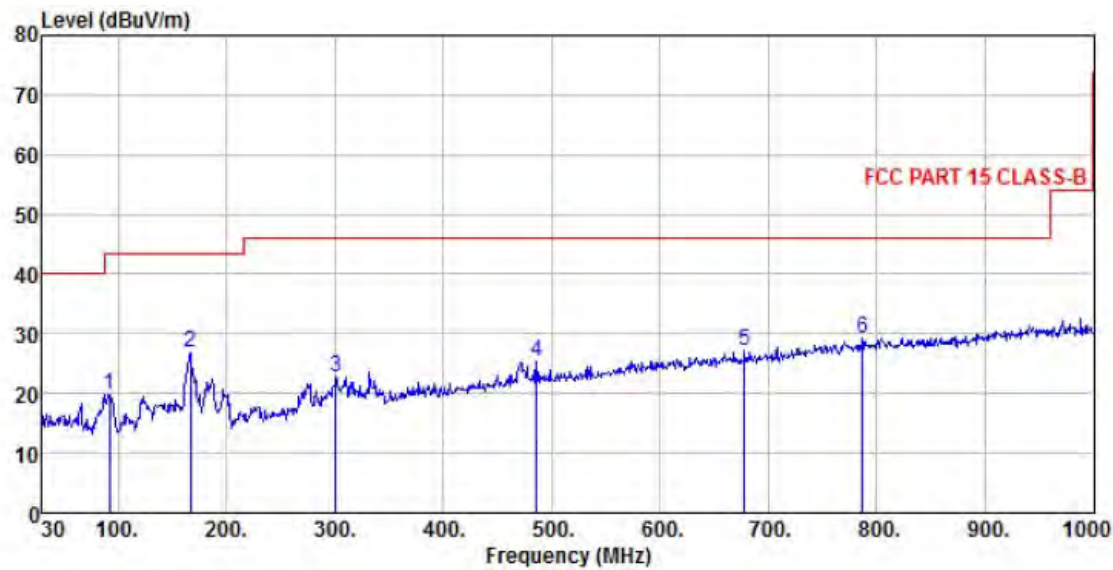


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line Limit Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m dB
1	pp	87.23	16.26	9.09	1.09	0.00	26.44 40.00 -13.56 Peak
2		166.77	9.44	13.44	1.79	0.00	24.67 43.50 -18.83 Peak
3		309.36	4.36	13.42	2.51	0.00	20.29 46.00 -25.71 Peak
4		503.36	3.95	17.09	3.05	0.00	24.09 46.00 -21.91 Peak
5		749.74	3.03	21.35	3.80	0.00	28.18 46.00 -17.82 Peak
6		926.28	4.07	22.95	4.10	0.00	31.12 46.00 -14.88 Peak

802.11n40 Ch6

Polarity: Horizontal

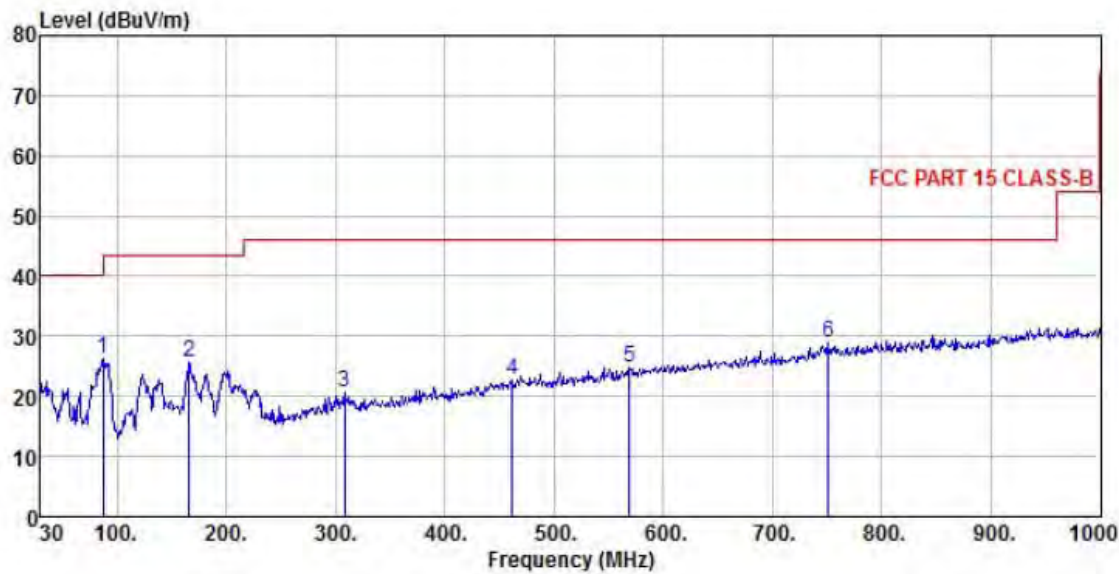


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 ℃ /50 %
Power Rating:
Mode : WIFI 802.11n40 CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	92.08	9.07	9.52	1.14	0.00	19.73	43.50 -23.77 Peak
2	pp	166.77	11.54	13.44	1.79	0.00	26.77 43.50 -16.73 Peak
3	300.63	7.08	13.24	2.53	0.00	22.85	46.00 -23.15 Peak
4	485.90	5.47	16.94	3.03	0.00	25.44	46.00 -20.56 Peak
5	677.96	3.69	19.87	3.57	0.00	27.13	46.00 -18.87 Peak
6	786.60	3.76	21.58	3.83	0.00	29.17	46.00 -16.83 Peak

802.11n40 Ch6

Polarity: Vertical

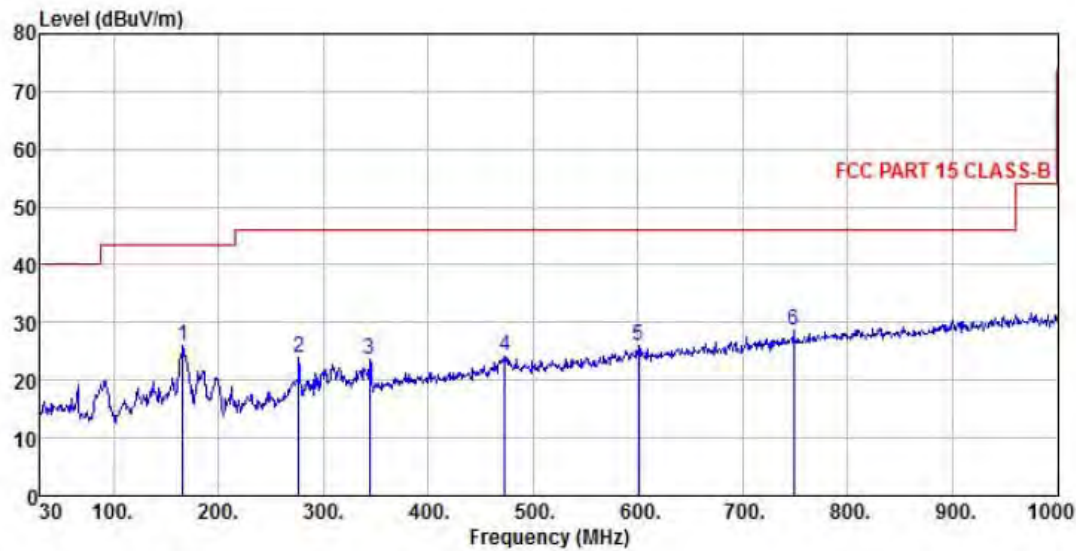


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n40 CH6
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 pp	87.23	16.06	9.09	1.09	0.00	26.24	40.00 -13.76 Peak
2	165.80	10.29	13.55	1.77	0.00	25.61	43.50 -17.89 Peak
3	308.39	4.79	13.37	2.51	0.00	20.67	46.00 -25.33 Peak
4	461.65	3.29	16.55	2.86	0.00	22.70	46.00 -23.30 Peak
5	569.32	3.20	18.40	3.23	0.00	24.83	46.00 -21.17 Peak
6	750.71	3.73	21.35	3.80	0.00	28.88	46.00 -17.12 Peak

802.11n40 Ch9

Polarity: Horizontal

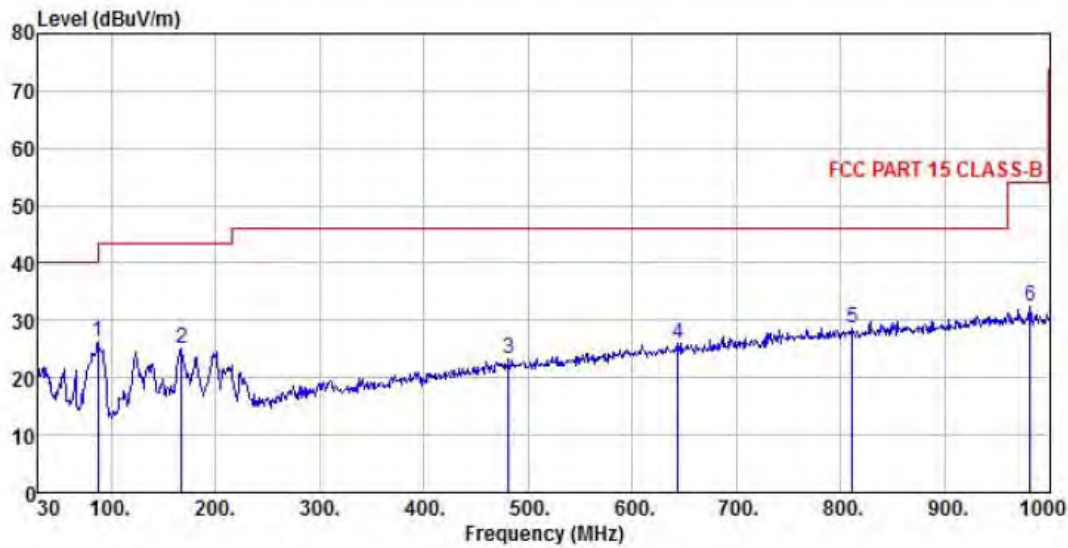


Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 HORIZONTAL
EUT :
Model Name : F800
Temp/Humi : 17 °C /50 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

	Read	Antenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	165.80	10.56	13.55	1.77	0.00	25.88	43.50 -17.62 Peak
2	276.38	8.99	12.67	2.21	0.00	23.87	46.00 -22.13 Peak
3	344.28	6.90	14.17	2.54	0.00	23.61	46.00 -22.39 Peak
4	473.29	4.40	16.78	2.95	0.00	24.13	46.00 -21.87 Peak
5	600.36	3.36	19.16	3.34	0.00	25.86	46.00 -20.14 Peak
6 pp	748.77	3.51	21.29	3.80	0.00	28.60	46.00 -17.40 Peak

802.11n40 Ch9

Polarity: Vertical



Site : chamber
Condition : FCC PART 15 CLASS-B 3m VULB9160 VERTICAL
EUT :
Model Name : F800
Temp/Humi : 17 ℃ /50 %
Power Rating:
Mode : WIFI 802.11n40 CH9
Memo :

		ReadAntenna		Cable Preamp		Limit		Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark			
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1 pp	87.23	16.12	9.09	1.09	0.00	26.30	40.00	-13.70	Peak		
2	167.74	9.85	13.44	1.81	0.00	25.10	43.50	-18.40	Peak		
3	481.05	3.45	16.91	3.01	0.00	23.37	46.00	-22.63	Peak		
4	644.01	2.98	19.50	3.53	0.00	26.01	46.00	-19.99	Peak		
5	810.85	2.99	21.84	3.85	0.00	28.68	46.00	-17.32	Peak		
6	981.57	4.73	23.43	4.29	0.00	32.45	54.00	-21.55	Peak		

From 1GHz to 25GHz:

802.11b, traffic mode; Channel 1

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2412	104.52	-3.54	Horizontal	100.98	/	/	Peak
2412	/	-3.54	Horizontal	/	/	/	Average
4824	43.84	4.76	Horizontal	48.60	74	25.40	Peak
4824	/	4.76	Horizontal	/	54	/	Average
7236	44.32	11.24	Horizontal	55.56	74	18.44	Peak
7236	27.97	11.24	Horizontal	39.21	54	14.79	Average
2412	101.37	-3.54	Vertical	97.83	/	/	Peak
2412	/	-3.54	Vertical	/	/	/	Average
4824	39.97	4.76	Vertical	44.73	74	29.27	Peak
4824	/	4.76	Vertical	/	54	/	Average
7236	41.83	11.24	Vertical	53.07	74	20.93	Peak
7236	28.89	11.24	Vertical	40.13	54	13.87	Average

Note: 1, Total=Reading+Correct factor

2, 2412 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise.

802.11b, traffic mode; Channel 6

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2437	103.59	-3.49	Horizontal	100.10	/	/	Peak
2437	/	-3.49	Horizontal	/	/	/	Average
4874	43.67	4.81	Horizontal	48.48	74	25.52	Peak
4874	/	4.81	Horizontal	/	54	/	Average
7311	45.18	11.56	Horizontal	56.74	74	17.26	Peak
7311	29.82	11.56	Horizontal	41.38	54	12.62	Average
2437	102.89	-3.49	Vertical	99.40	/	/	Peak
2437	/	-3.49	Vertical	/	/	/	Average
4874	42.91	4.81	Vertical	47.72	74	26.28	Peak
4874	/	4.81	Vertical	/	54	/	Average
7311	43.84	11.56	Vertical	55.40	74	18.60	Peak
7311	28.07	11.56	Vertical	39.63	54	14.37	Average

Note: 1, Total=Reading+Correct factor

2, 2437 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise

802.11b, traffic mode; Channel 11

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2462	107.13	-3.13	Horizontal	104.00	/	/	Peak
2462	/	-3.13	Horizontal	/	/	/	Average
4924	43.87	5.15	Horizontal	49.02	74	24.98	Peak
4924	/	5.15	Horizontal	/	54	/	Average
7386	43.77	12.01	Horizontal	55.78	74	18.22	Peak
7386	29.34	12.01	Horizontal	41.35	54	12.65	Average
2462	105.92	-3.13	Vertical	102.79	/	/	Peak
2462	/	-3.13	Vertical	/	/	/	Average
4924	41.37	5.15	Vertical	46.52	74	27.48	Peak
4924	/	5.15	Vertical	/	54	/	Average
7386	43.56	12.01	Vertical	55.66	74	18.34	Peak
7386	27.64	12.01	Vertical	39.65	54	14.35	Average

/Note: 1, Total=Reading+Correct factor

2, 2462 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise

802.11g, traffic mode; Channel 1

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2412	101.93	-3.54	Horizontal	98.39	/	/	Peak
2412	/	-3.54	Horizontal	/	/	/	Average
4824	41.61	4.76	Horizontal	46.37	74	27.63	Peak
4824	/	4.76	Horizontal	/	54	/	Average
7236	42.67	11.24	Horizontal	53.91	74	20.09	Peak
7236	28.36	11.24	Horizontal	39.60	54	14.40	Average
2412	100.19	-3.54	Vertical	96.65	/	/	Peak
2412	/	-3.54	Vertical	/	/	/	Average
4824	38.14	4.76	Vertical	42.90	74	31.10	Peak
4824	/	4.76	Vertical	/	54	/	Average
7236	39.89	11.24	Vertical	51.13	74	22.87	Peak
7236	27.31	11.24	Vertical	38.55	54	15.45	Average

Note: 1, Total=Reading+Correct factor

2, 2412 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise.

802.11g, traffic mode; Channel 6

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2437	103.94	-3.49	Horizontal	100.45	/		Peak
2437	/	-3.49	Horizontal		/		Average
4874	45.39	4.81	Horizontal	50.2	74	23.80	Peak
4874	/	4.81	Horizontal		54		Average
7311	43.91	11.56	Horizontal	55.47	74	18.53	Peak
7311	28.34	11.56	Horizontal	39.90	54	14.10	Average
2437	102.39	-3.49	Vertical	98.90	/		Peak
2437	/	-3.49	Vertical		/		Average
4874	41.06	4.81	Vertical	45.87	74	28.13	Peak
4874	/	4.81	Vertical		54		Average
7311	42.37	11.56	Vertical	53.93	74	20.07	Peak
7311	26.89	11.56	Vertical	38.45	54	15.55	Average

Note: 1, Total=Reading+Correct factor
2, 2437 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11g, traffic mode; Channel 11

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2462	106.84	-3.13	Horizontal	103.71	/	/	Peak
2462	/	-3.13	Horizontal	/	/	/	Average
4924	42.37	5.15	Horizontal	47.52	74	26.48	Peak
4924	/	5.15	Horizontal	/	54	/	Average
7386	42.81	12.01	Horizontal	54.82	74	19.18	Peak
7386	28.97	12.01	Horizontal	40.98	54	13.02	Average
2462	103.94	-3.13	Vertical	100.81	/	/	Peak
2462	/	-3.13	Vertical	/	/	/	Average
4924	39.87	5.15	Vertical	45.02	74	28.98	Peak
4924	/	5.15	Vertical	/	54	/	Average
7386	43.18	12.01	Vertical	55.19	74	18.81	Peak
7386	27.81	12.01	Vertical	39.82	54	14.18	Average

Note: 1, Total=Reading+Correct factor
2, 2462 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11n20, traffic mode; Channel 1

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2412	107.621	-3.54	Horizontal	104.07	/	/	Peak
2412	/	-3.54	Horizontal	/	/	/	Average
4824	42.31	4.76	Horizontal	47.07	74	26.93	Peak
4824	/	4.76	Horizontal	/	54	49.44	Average
7236	43.97	11.24	Horizontal	55.21	74	18.79	Peak
7236	29.86	11.24	Horizontal	41.10	54	12.90	Average
2412	100.37	-3.54	Vertical	96.83	/	/	Peak
2412	/	-3.54	Vertical	/	/	/	Average
4824	40.59	4.76	Vertical	45.35	74	28.65	Peak
4824	/	4.76	Vertical	3.89	54	50.11	Average
7236	43.67	11.24	Vertical	54.91	74	19.09	Peak
7236	27.98	11.24	Vertical	39.22	54	14.78	Average

Note: 1, Total=Reading+Correct factor
2, 2412 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11n20, traffic mode; Channel 6

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2437	106.31	-3.49	Horizontal	102.82	/	/	Peak
2437	/	-3.49	Horizontal	/	/	/	Average
4874	42.37	4.81	Horizontal	47.18	74	26.82	Peak
4874	/	4.81	Horizontal	/	54	/	Average
7311	43.98	11.56	Horizontal	55.54	74	18.46	Peak
7311	29.84	11.56	Horizontal	42.28	54	11.72	Average
2437	101.98	-3.49	Vertical	98.49	/	/	Peak
2437	/	-3.49	Vertical	/	/	/	Average
4874	41.52	4.81	Vertical	46.33	74	27.67	Peak
4874	/	4.81	Vertical	/	54	/	Average
7311	43.93	11.56	Vertical	55.49	74	18.51	Peak
7311	28.09	11.56	Vertical	39.65	54	14.35	Average

Note: 1, Total=Reading+Correct factor
2, 2437 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11n20, traffic mode; Channel 11

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2462	106.97	-3.13	Horizontal	103.84	/	/	Peak
2462	/	-3.13	Horizontal	/	/	/	Average
4924	41.09	5.15	Horizontal	46.24	74	27.76	Peak
4924	/	5.15	Horizontal	/	54	/	Average
7386	42.98	12.01	Horizontal	54.99	74	19.01	Peak
7386	29.03	12.01	Horizontal	41.04	54	12.96	Average
2462	103.98	-3.13	Vertical	100.85	/	/	Peak
2462	/	-3.13	Vertical	/	/	/	Average
4924	39.87	5.15	Vertical	45.02	74	28.98	Peak
4924	/	5.15	Vertical	/	54	/	Average
7386	42.38	12.01	Vertical	54.39	74	19.61	Peak
7386	28.73	12.01	Vertical	40.74	54	13.26	Average

Note: 1, Total=Reading+Correct factor
2, 2462 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11n40, traffic mode; Channel 3

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2422	103.69	-3.52	Horizontal	100.17	/	/	Peak
2422	/	-3.52	Horizontal	/	/	/	Average
4844	41.83	4.77	Horizontal	46.60	74	27.40	Peak
4844	/	4.77	Horizontal	/	54	/	Average
7266	43.29	11.31	Horizontal	54.60	74	19.40	Peak
7266	29.31	11.31	Horizontal	40.62	54	13.38	Average
2422	99.89	-3.54	Vertical	96.35	/	/	Peak
2422	/	-3.54	Vertical	/	/	/	Average
4844	39.86	4.77	Vertical	44.63	74	29.37	Peak
4844	/	4.77	Vertical	/	54	/	Average
7266	43.85	11.31	Vertical	55.16	74	18.84	Peak
7266	27.67	11.31	Vertical	39.98	54	14.02	Average

Note: 1, Total=Reading+Correct factor
2, 2422 MHz was fundamental signal which can be ignored.
3, Other harmonics are lower than background noise.

802.11n40, traffic mode; Channel 6

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2437	106.12	-3.49	Horizontal	102.63	/	/	Peak
2437	/	-3.49	Horizontal	/	/	/	Average
4874	42.03	4.81	Horizontal	46.84	74	27.16	Peak
4874	/	4.81	Horizontal	/	54	/	Average
7311	41.89	11.56	Horizontal	53.45	74	20.55	Peak
7311	30.08	11.56	Horizontal	41.64	54	12.36	Average
2437	100.03	-3.49	Vertical	96.54	/	/	Peak
2437	/	-3.49	Vertical	/	/	/	Average
4874	41.23	4.81	Vertical	46.04	74	27.96	Peak
4874	/	4.81	Vertical	/	54	/	Average
7311	42.74	11.56	Vertical	54.30	74	19.70	Peak
7311	27.98	11.56	Vertical	39.54	54	14.46	Average

/Note: 1, Total=Reading+Correct factor

2, 2437 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise.

802.11n40, traffic mode; Channel 9

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Antenna Polarity	Total (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector Type
2452	103.84	-3.2	Horizontal	100.64	/	/	Peak
2452	/	-3.2	Horizontal	/	/	/	Average
4904	42.19	4.93	Horizontal	47.12	74	26.88	Peak
4904	/	4.93	Horizontal	/	54	/	Average
7356	43.37	11.83	Horizontal	55.20	74	18.80	Peak
7356	29.98	11.83	Horizontal	41.81	54	12.19	Average
2462	100.09	-3.2	Vertical	96.89	/	/	Peak
2462	/	-3.2	Vertical	/	/	/	Average
4904	39.87	4.93	Vertical	44.80	74	29.20	Peak
4904	/	4.93	Vertical	/	54	/	Average
7356	41.09	11.83	Vertical	52.92	74	21.08	Peak
7356	28.06	11.83	Vertical	39.89	54	14.11	Average

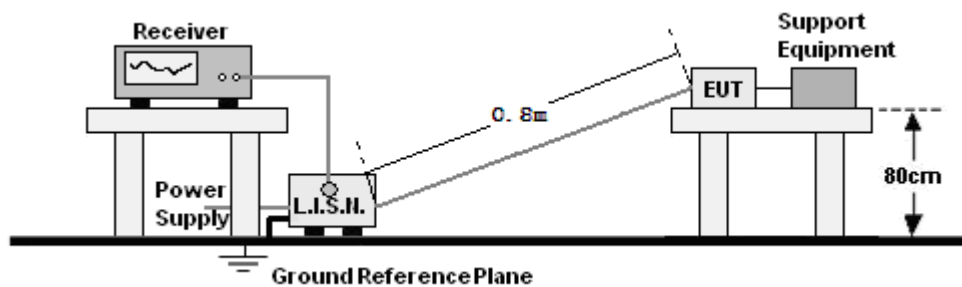
Note: 1, Total=Reading+Correct factor

2, 2452 MHz was fundamental signal which can be ignored.

3, Other harmonics are lower than background noise.

11. AC POWER LINE CONDUCTED EMISSIONS

11.1 TEST SETUP



11.2 LIMITS

Frequency range (MHz)	Limits dB(μV)	
	Quasi-peak	Average
0,15 to 0,50	66 to 56	56 to 46
0,50 to 5	56	46
5 to 30	60	50

NOTE: 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

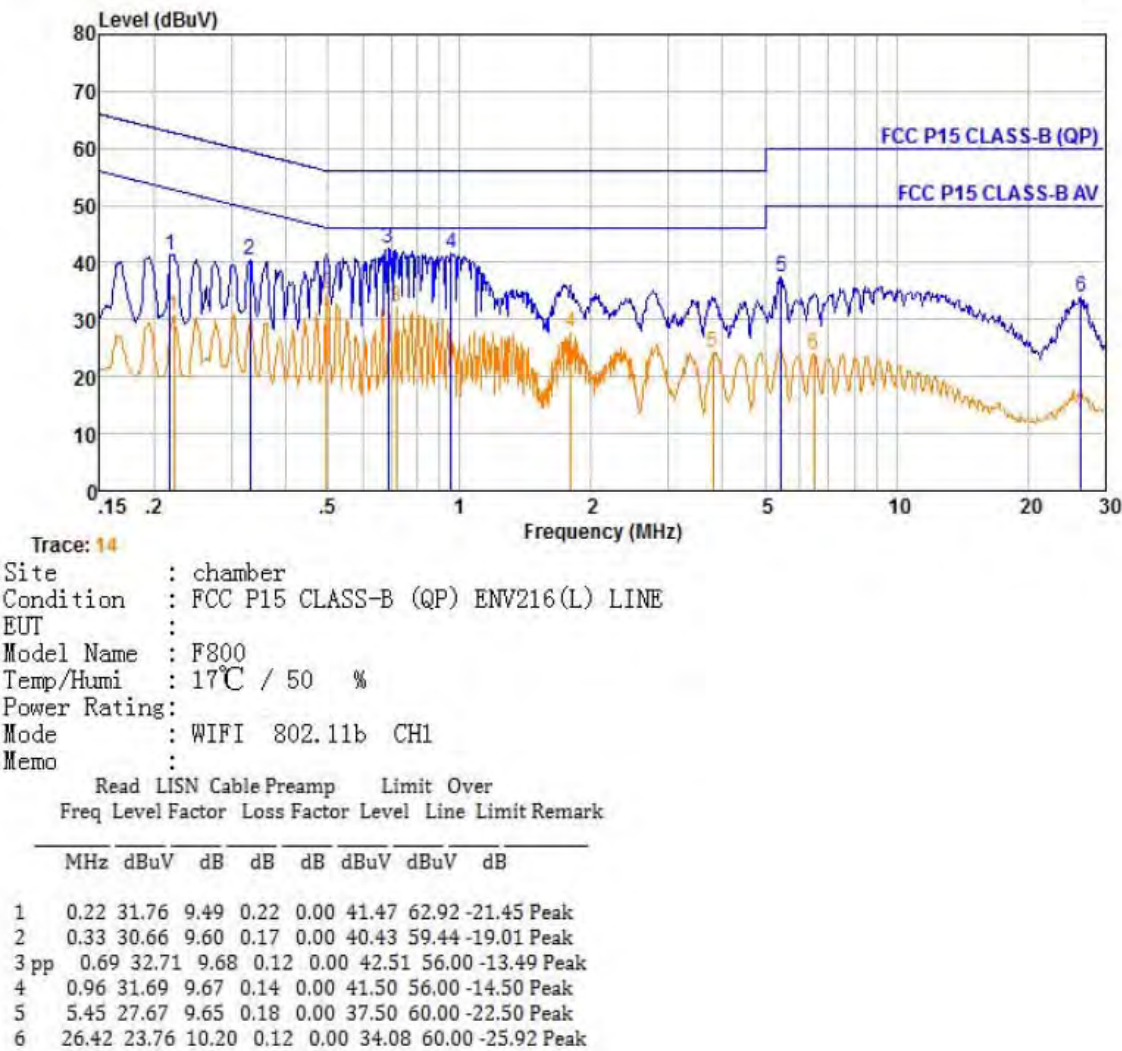
11.3 TEST PROCEDURE

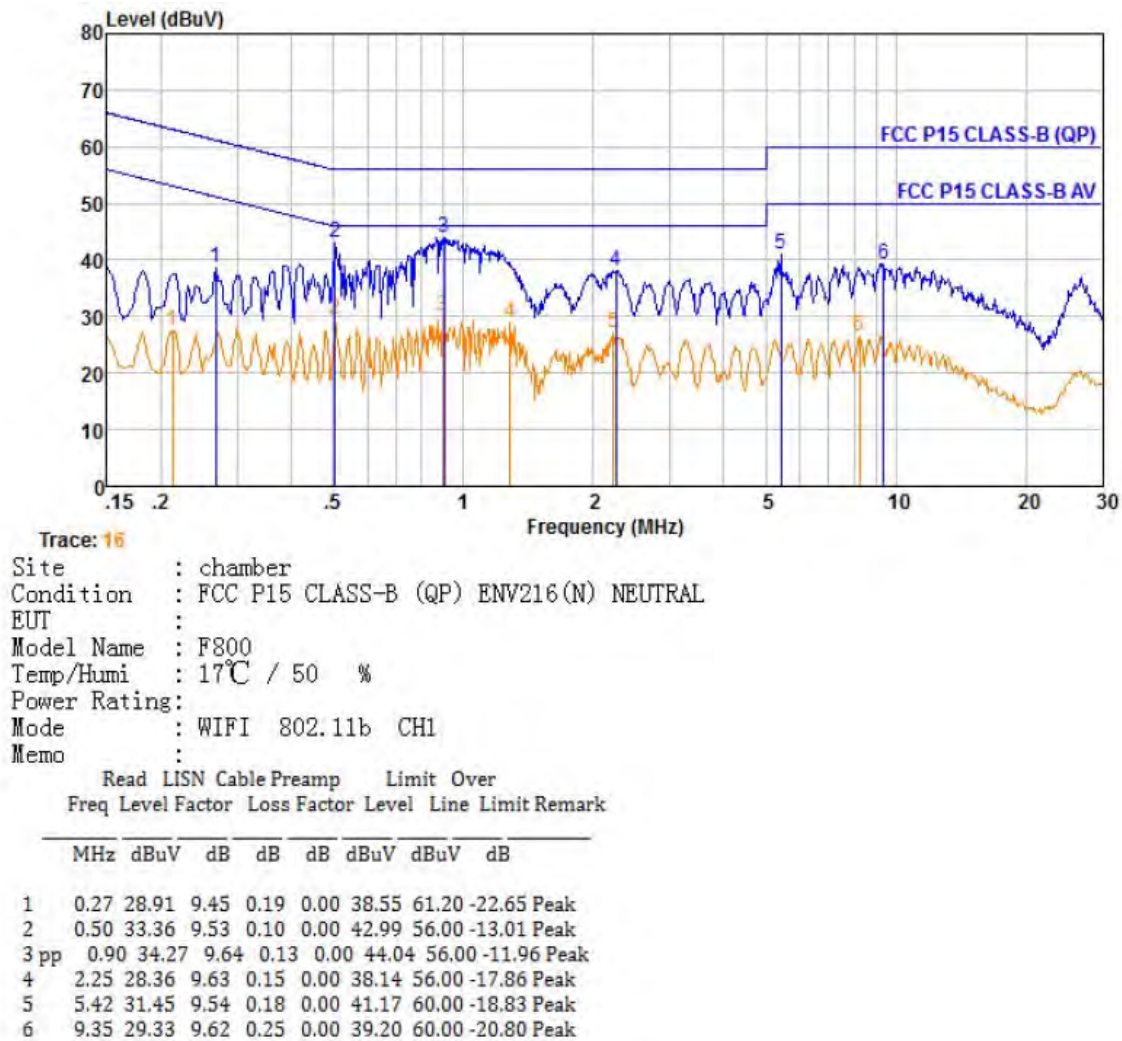
According to description of ANSI C63.4: 2009 sec.13.1.3, the AC power line preliminary conducted emissions measurements were carried out. The preliminary conducted measurements were performed using the spectrum analyzer to observe the emission characteristics of the EUT. The EUT configuration, cable configuration and mode of operation were determined for producing the maximum level of emissions. These configurations were used for final AC power line conducted emissions measurements. The EUT is placed on a non-metallic table 0.8m above the horizontal metal reference ground plane. The EUT is connected to LISN and LISN is connected to the reference ground. All other supplemental devices are connected with EUT through other LISN. The distance between EUT and LISN is 80cm. A radio link is established between EUT and the tester. The output power of the EUT is controlled by the tester and driven to maximum value. An initial pre-scan was performed on the live L line and neutral line with peak detector (9kHz RBW). Both average detector and quasi-peak detector are performed at the frequencies with maximized peak emission. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

11.4 RESULTS & PERFORMANCE

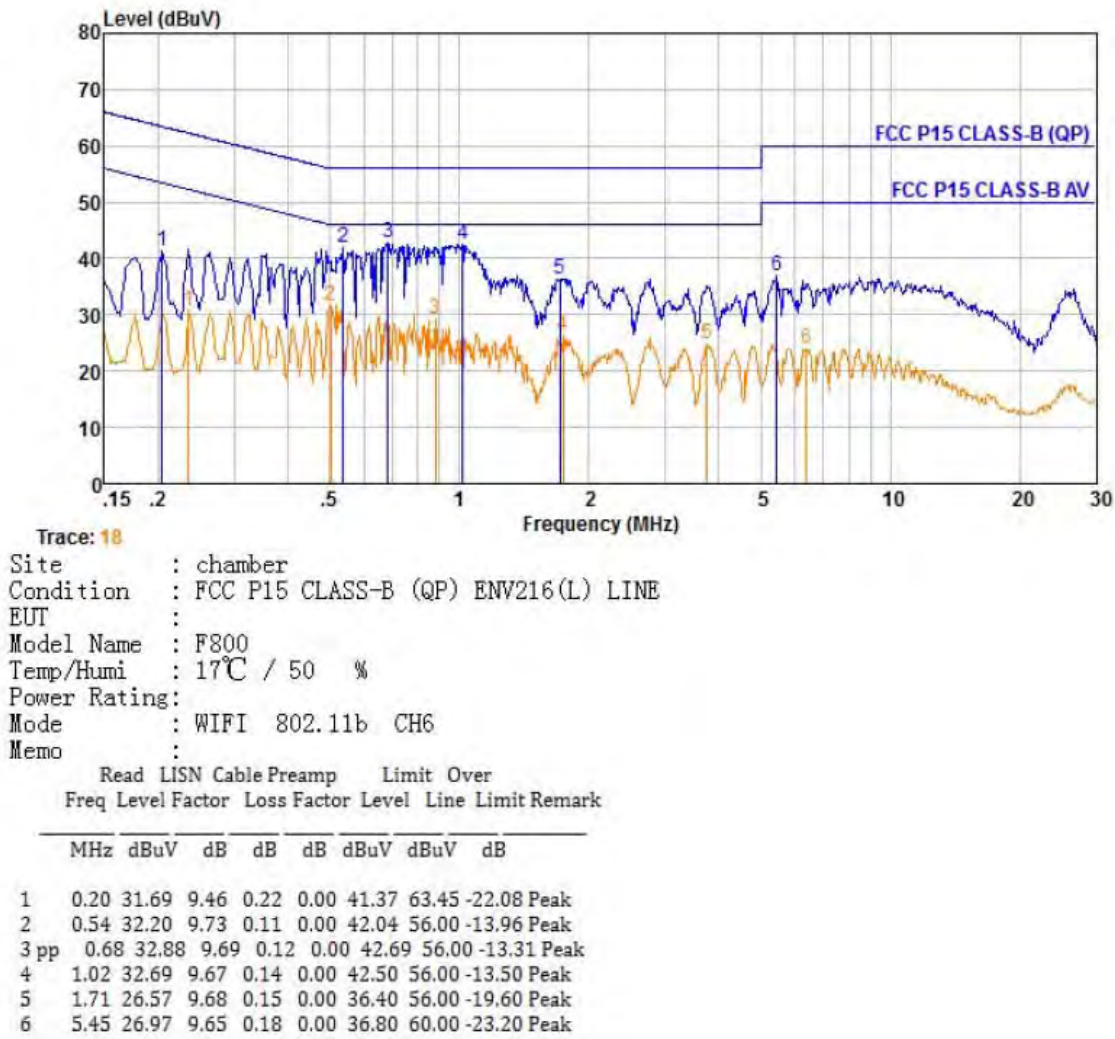
Only show the worst test data when EUT was operated on different mode.
EUT operation mode: 11b(Ch1/Ch6/Ch11); 11g(Ch1/Ch6/Ch11); 11n20(Ch1/Ch6/Ch11);
11n40(Ch3/Ch6/Ch9).

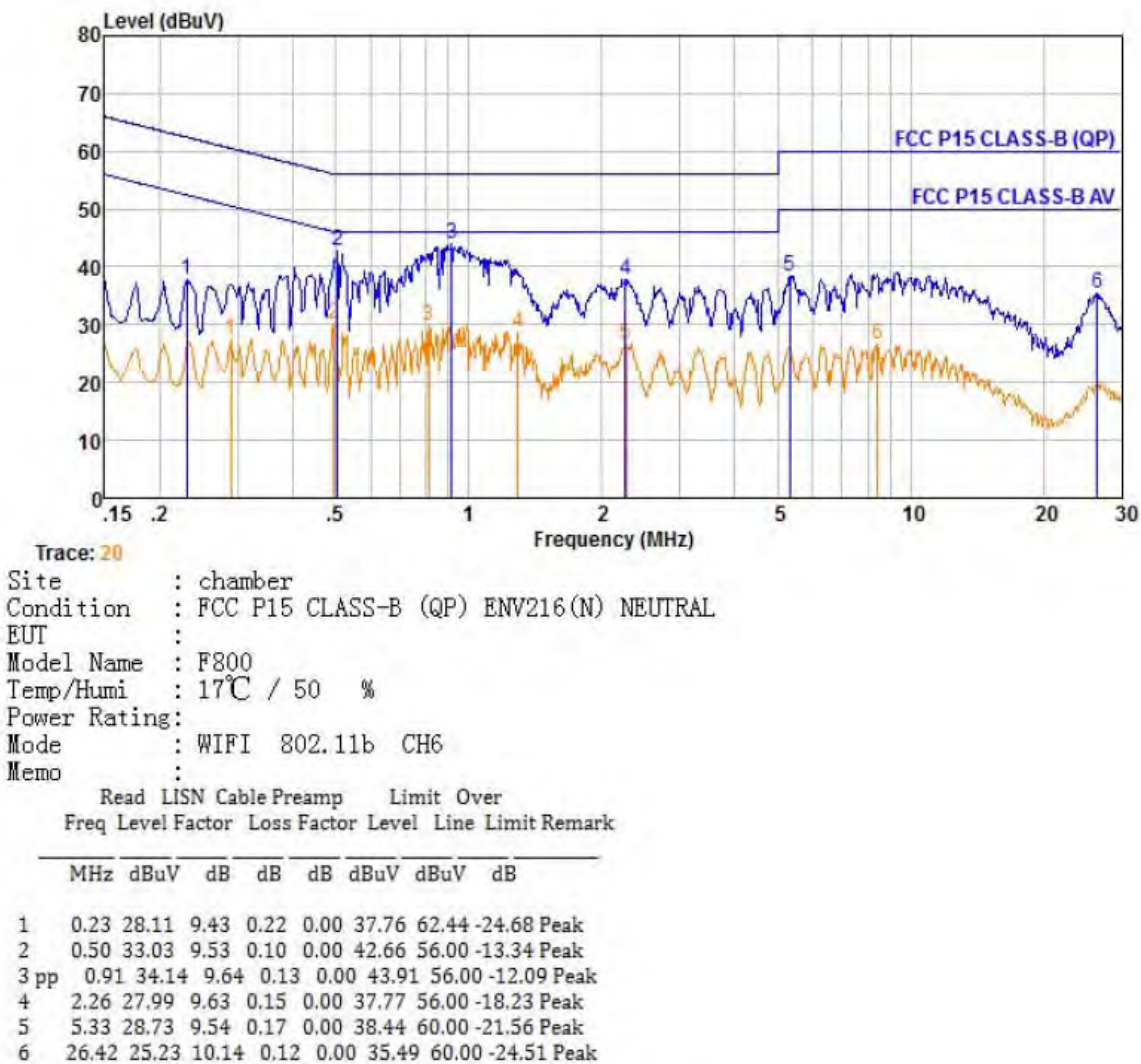
802.11b Ch1



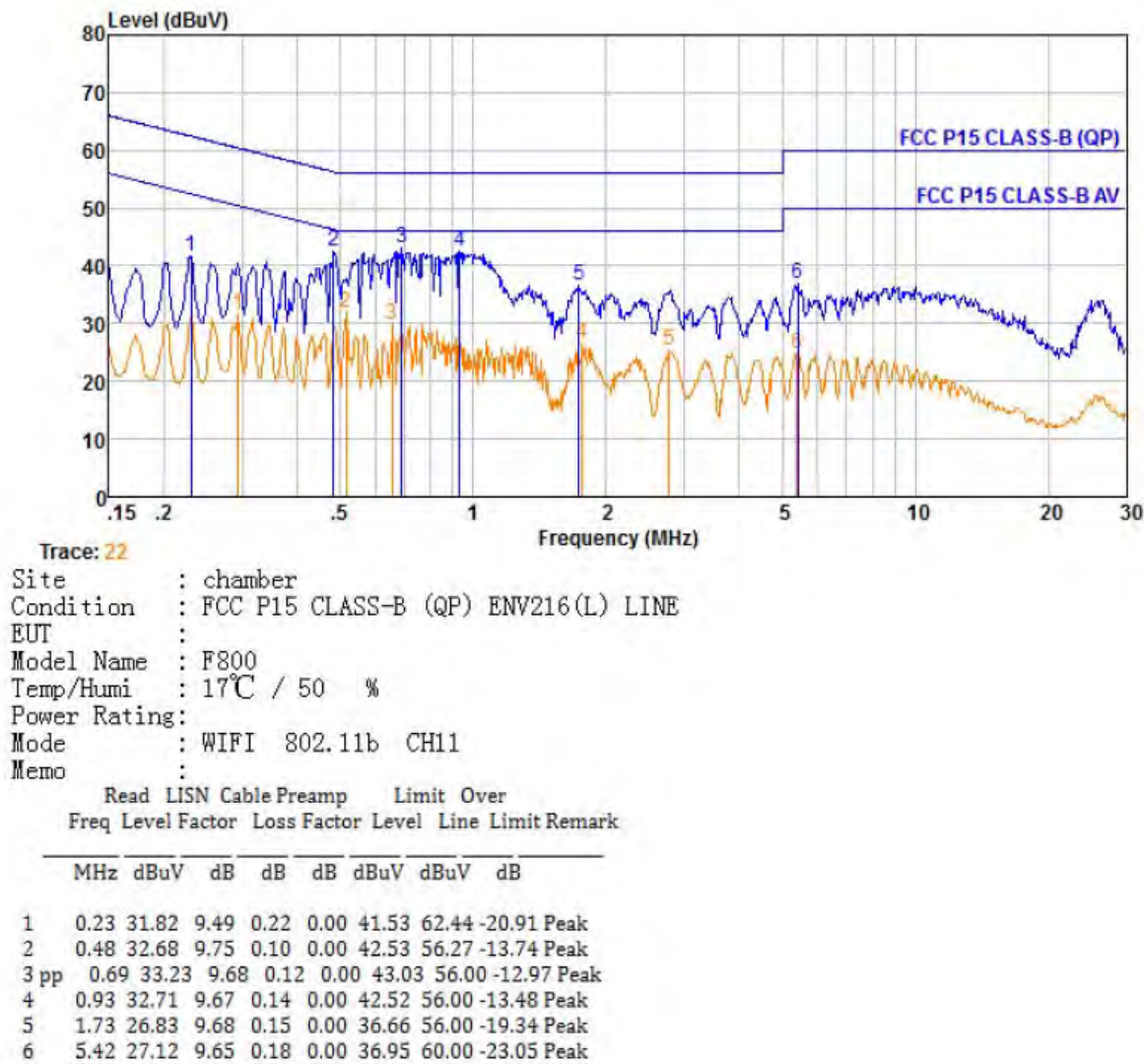


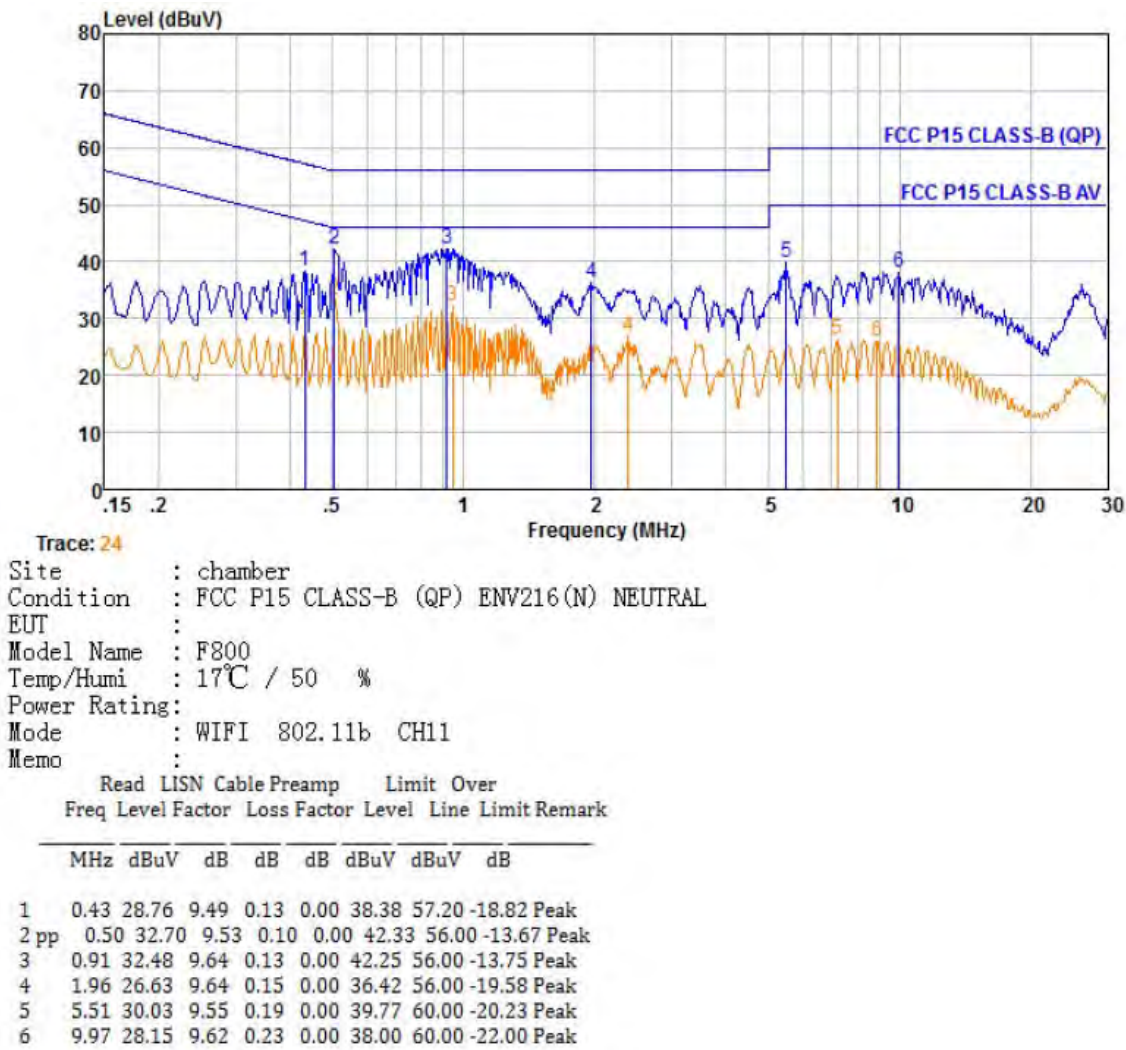
802.11b Ch6



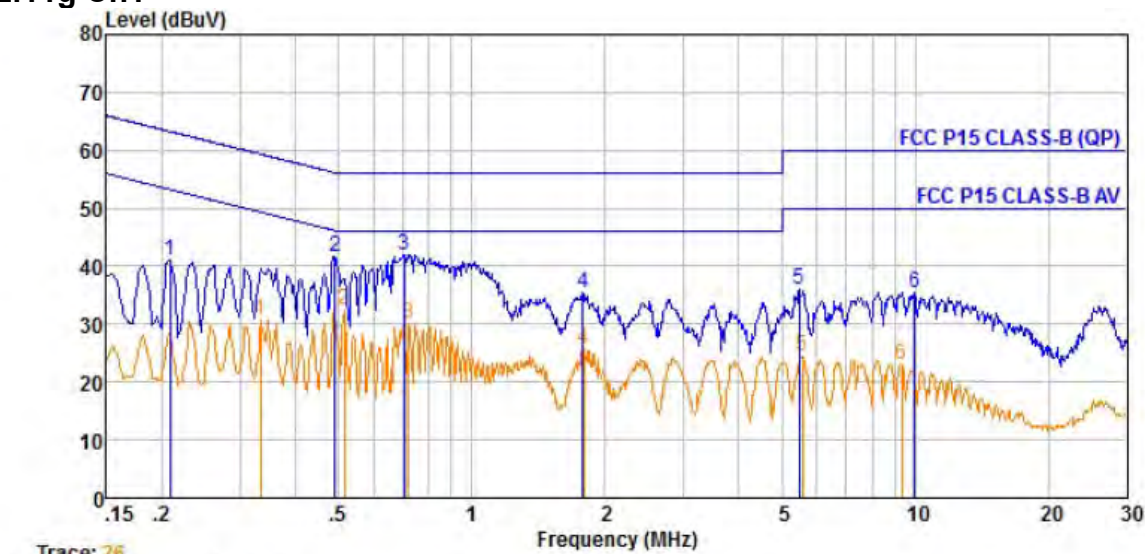


802.11b Ch11



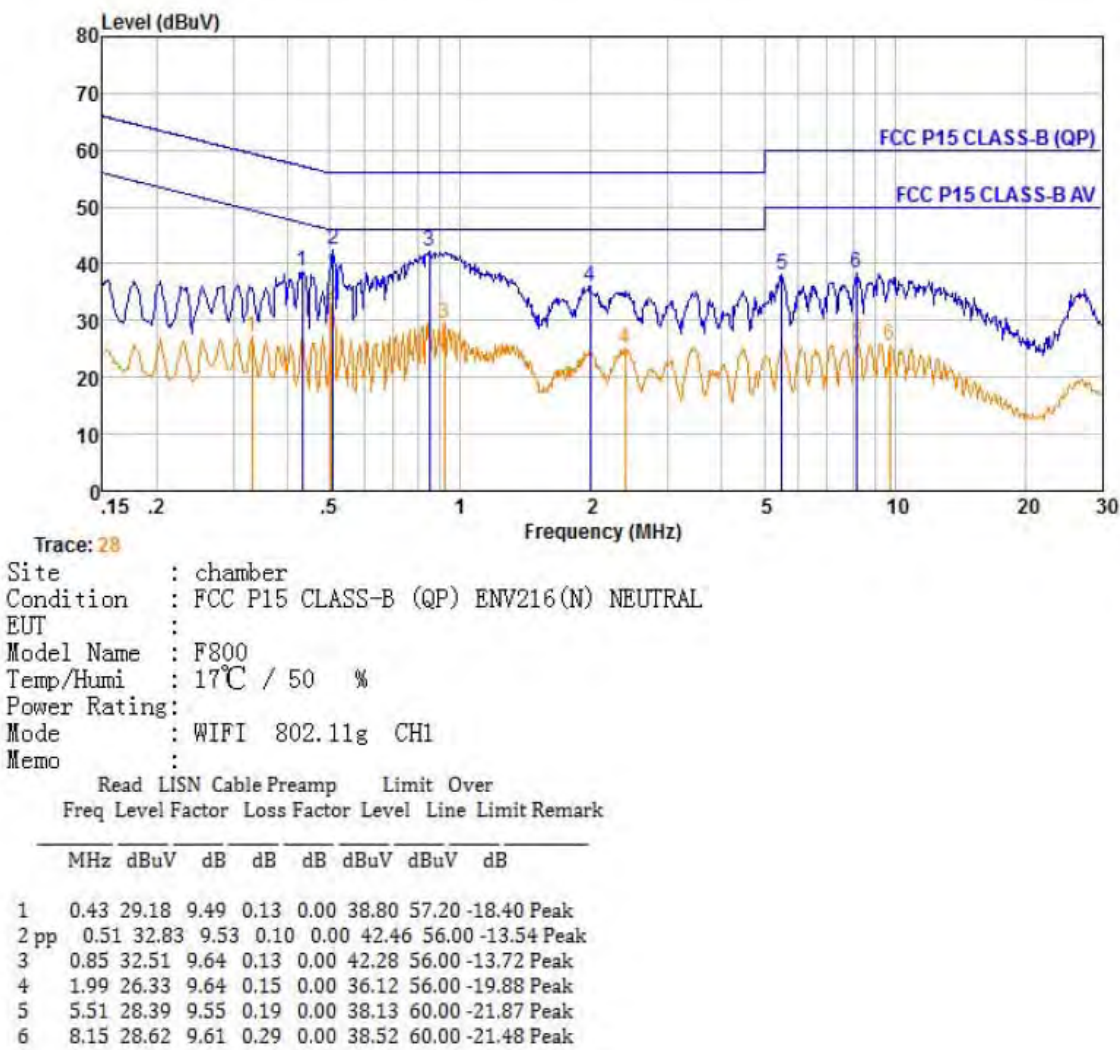


802.11g Ch1

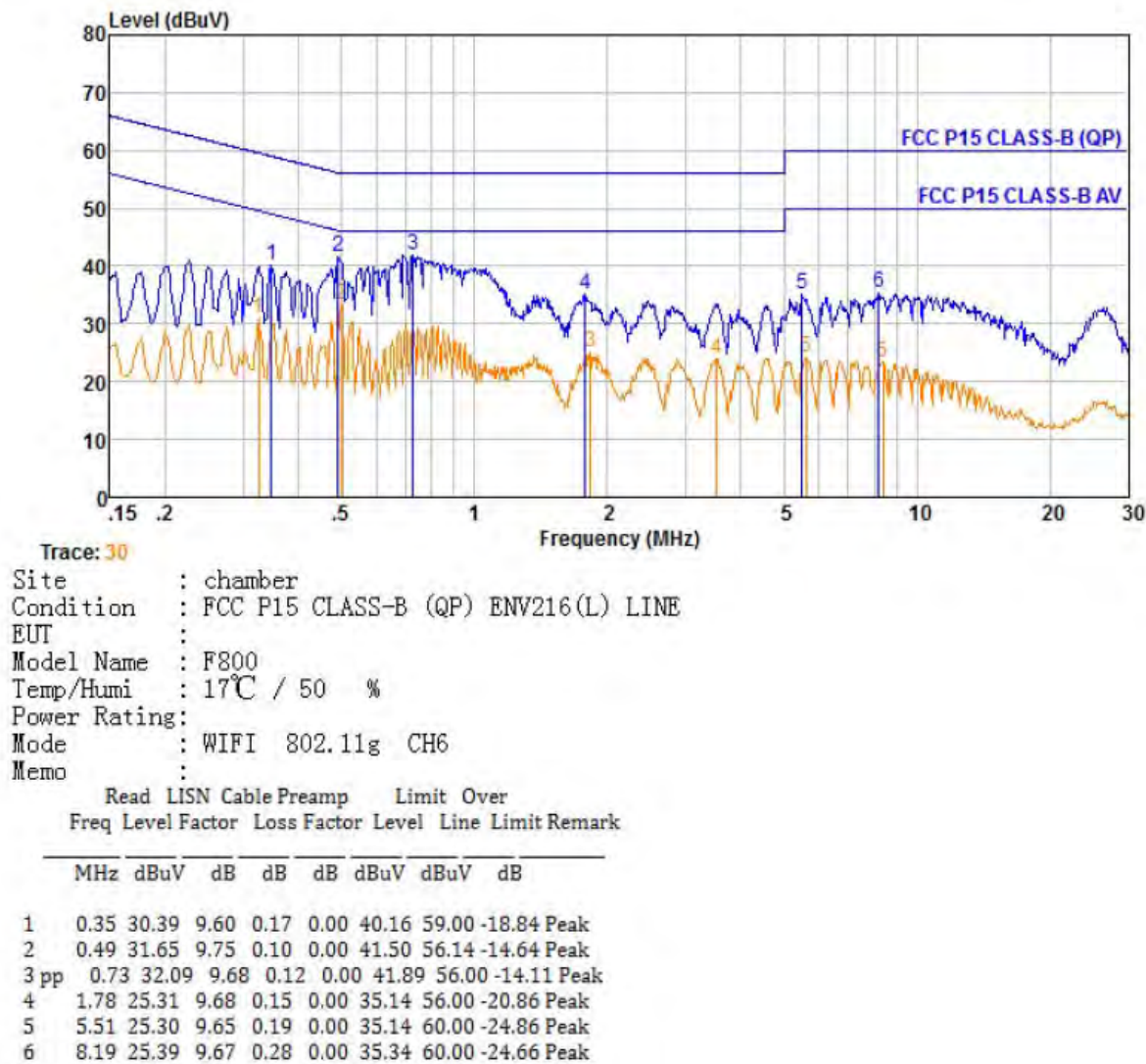


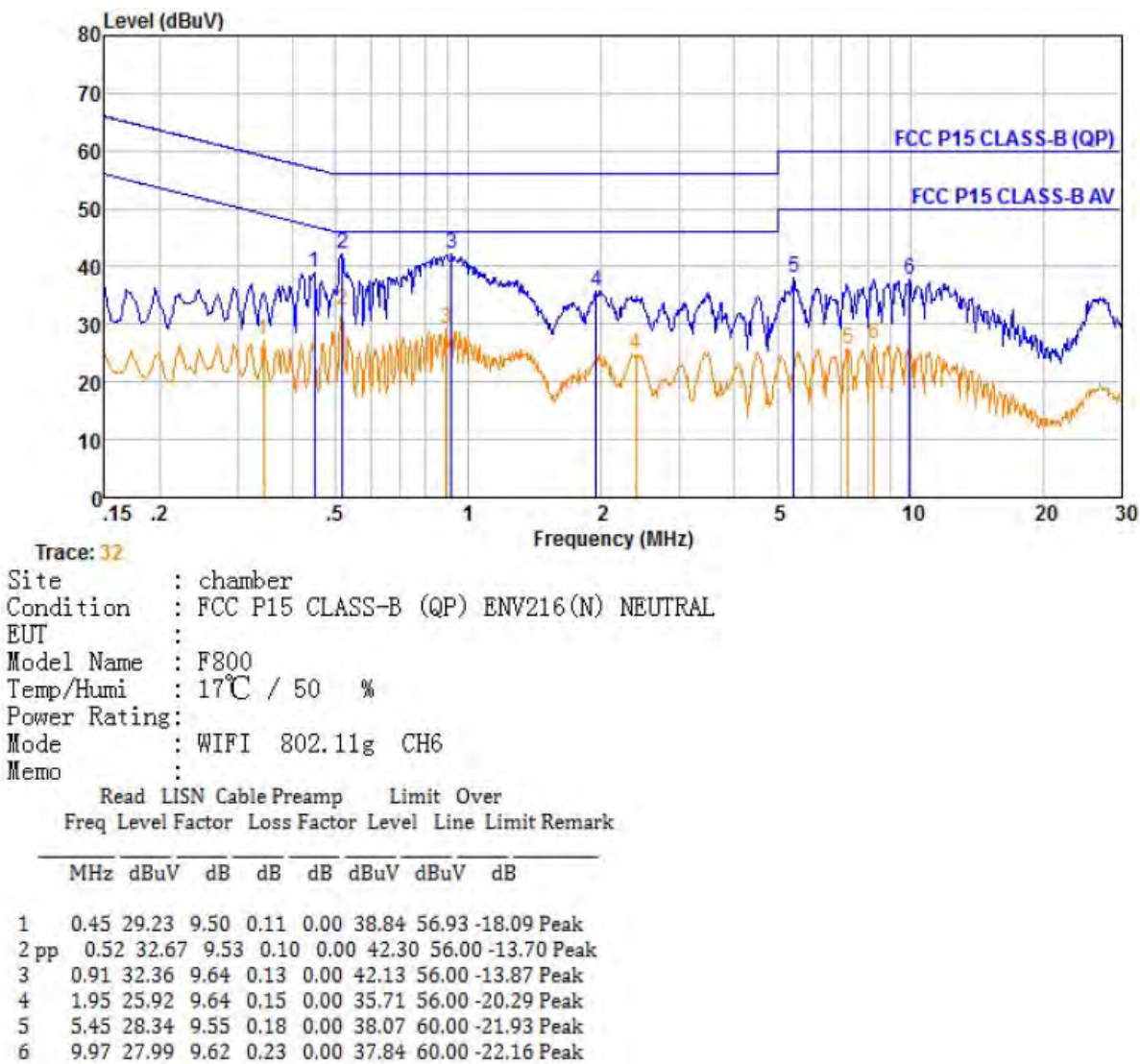
Site : chamber
Condition : FCC P15 CLASS-B (QP) ENV216(L) LINE
EUT :
Model Name : F800
Temp/Humi : 17°C / 50 %
Power Rating:
Mode : WIFI 802.11g CH1
Memo :

		Read		LISN Cable Preamp		Limit		Over	
		Freq	Level	Factor	Loss Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB		
1	0.21	31.44	9.49	0.22	0.00	41.15	63.27	-22.12	Peak
2	0.49	31.88	9.75	0.10	0.00	41.73	56.14	-14.41	Peak
3 pp	0.70	32.14	9.68	0.12	0.00	41.94	56.00	-14.06	Peak
4	1.78	25.65	9.68	0.15	0.00	35.48	56.00	-20.52	Peak
5	5.48	26.04	9.65	0.18	0.00	35.87	60.00	-24.13	Peak
6	9.97	25.53	9.72	0.23	0.00	35.48	60.00	-24.52	Peak

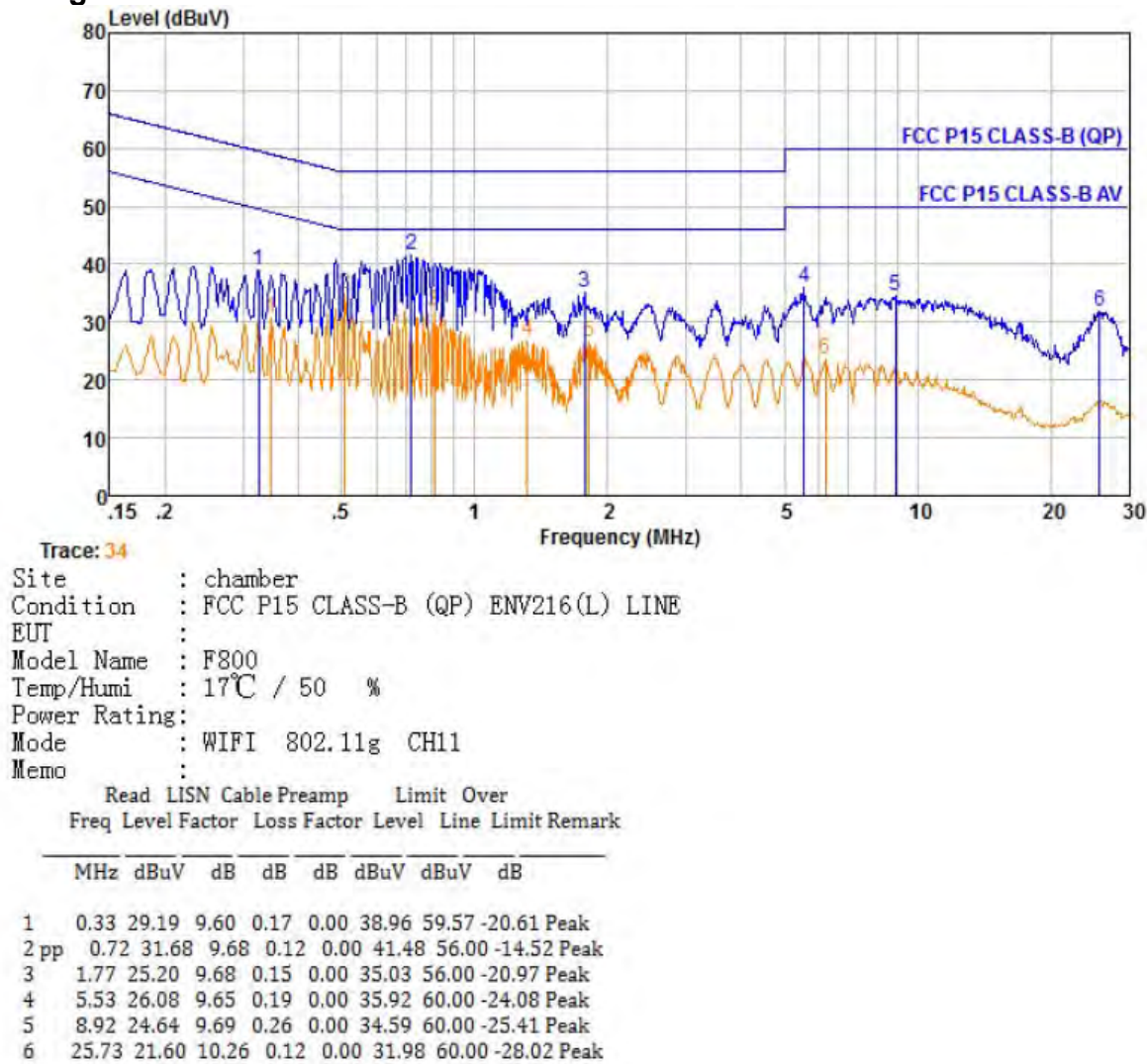


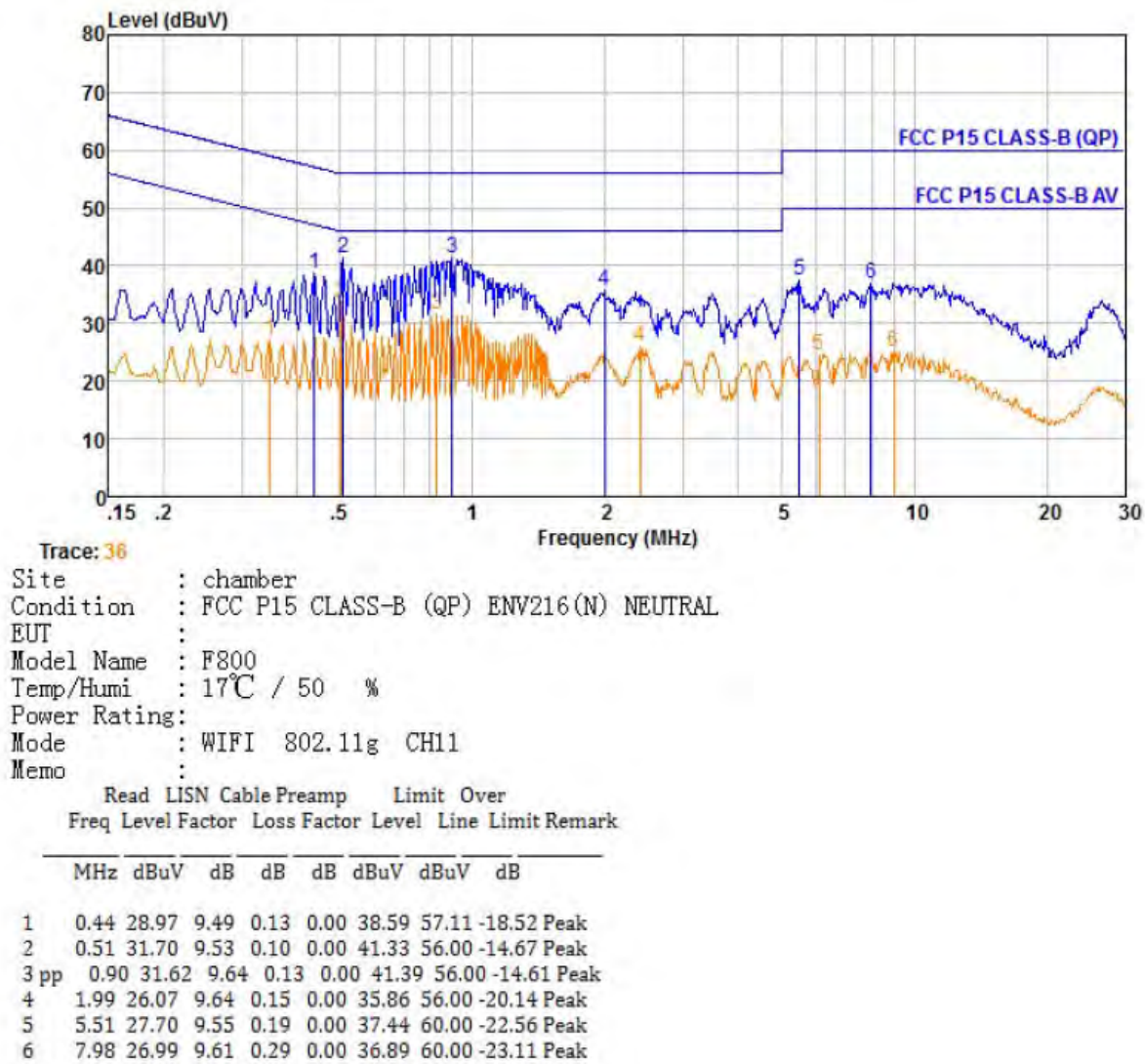
802.11g Ch6



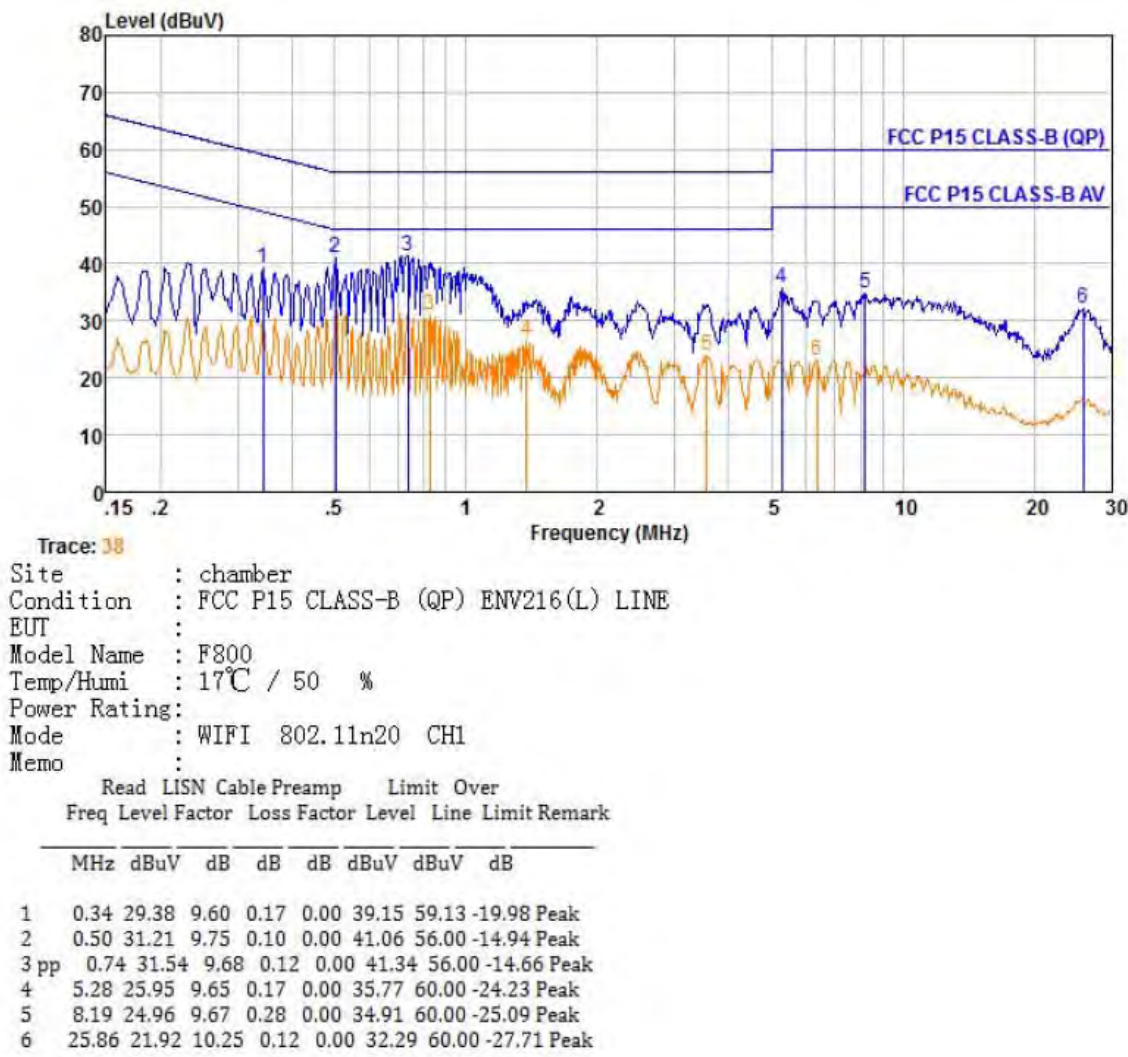


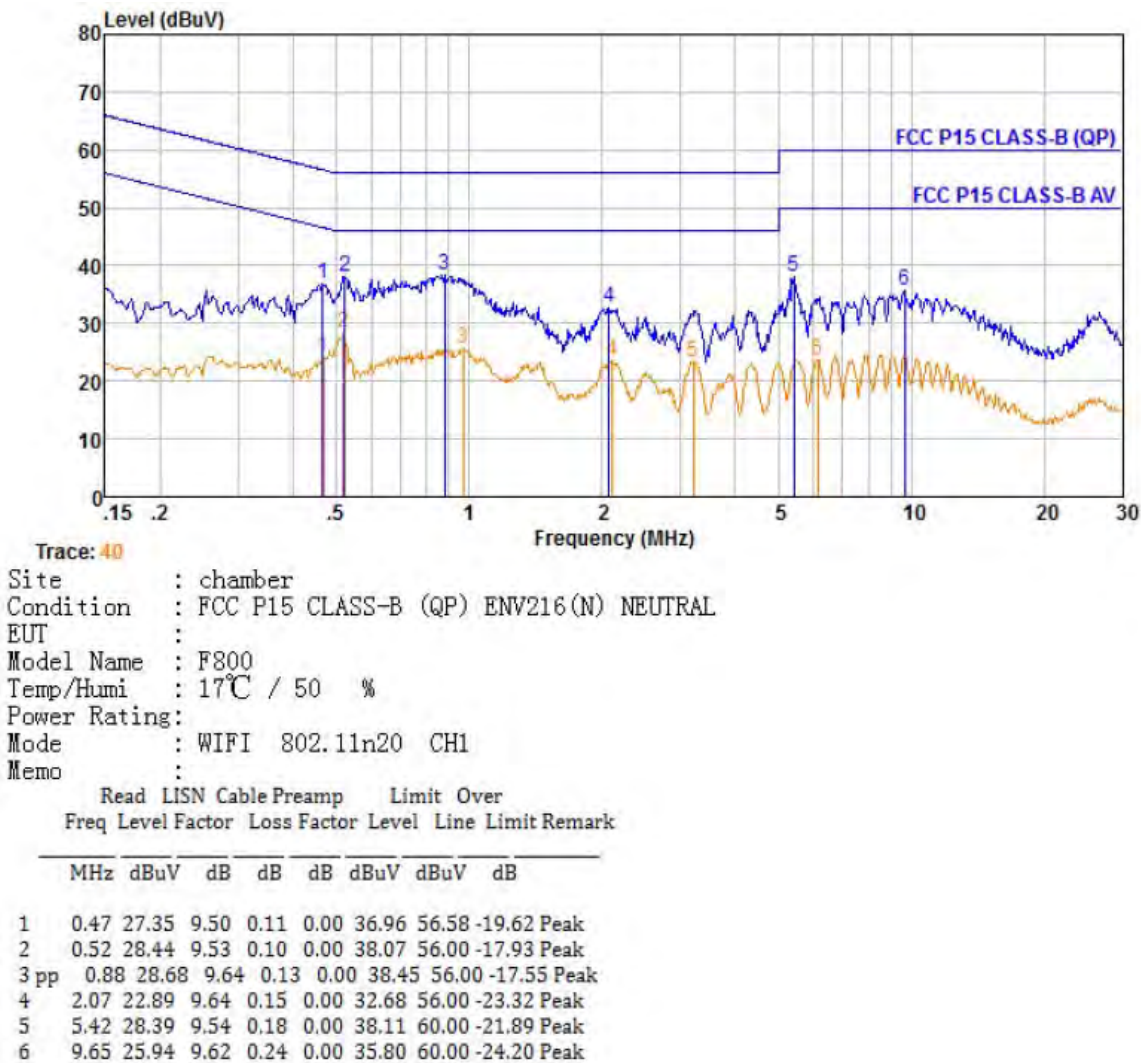
802.11g Ch11



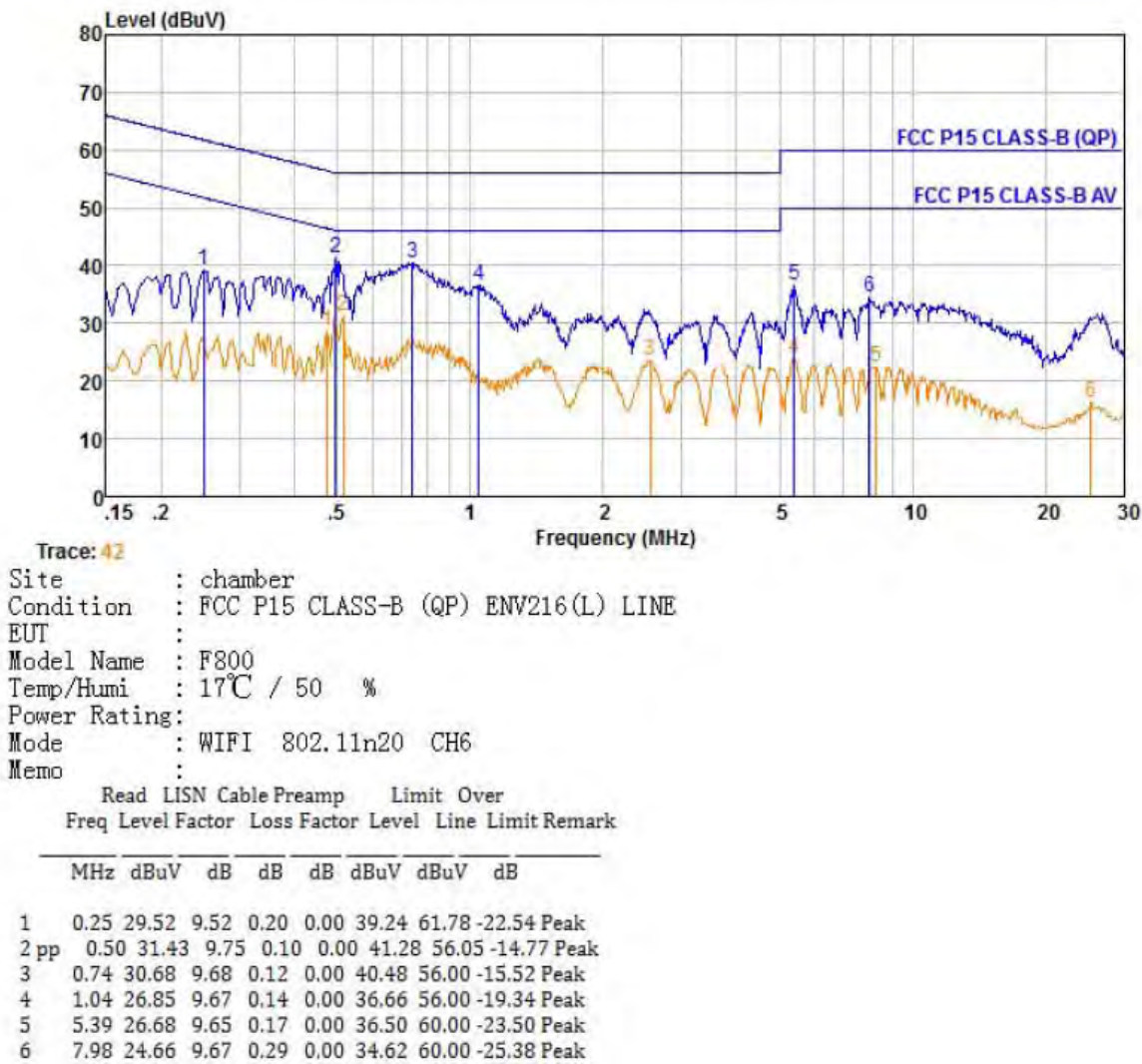


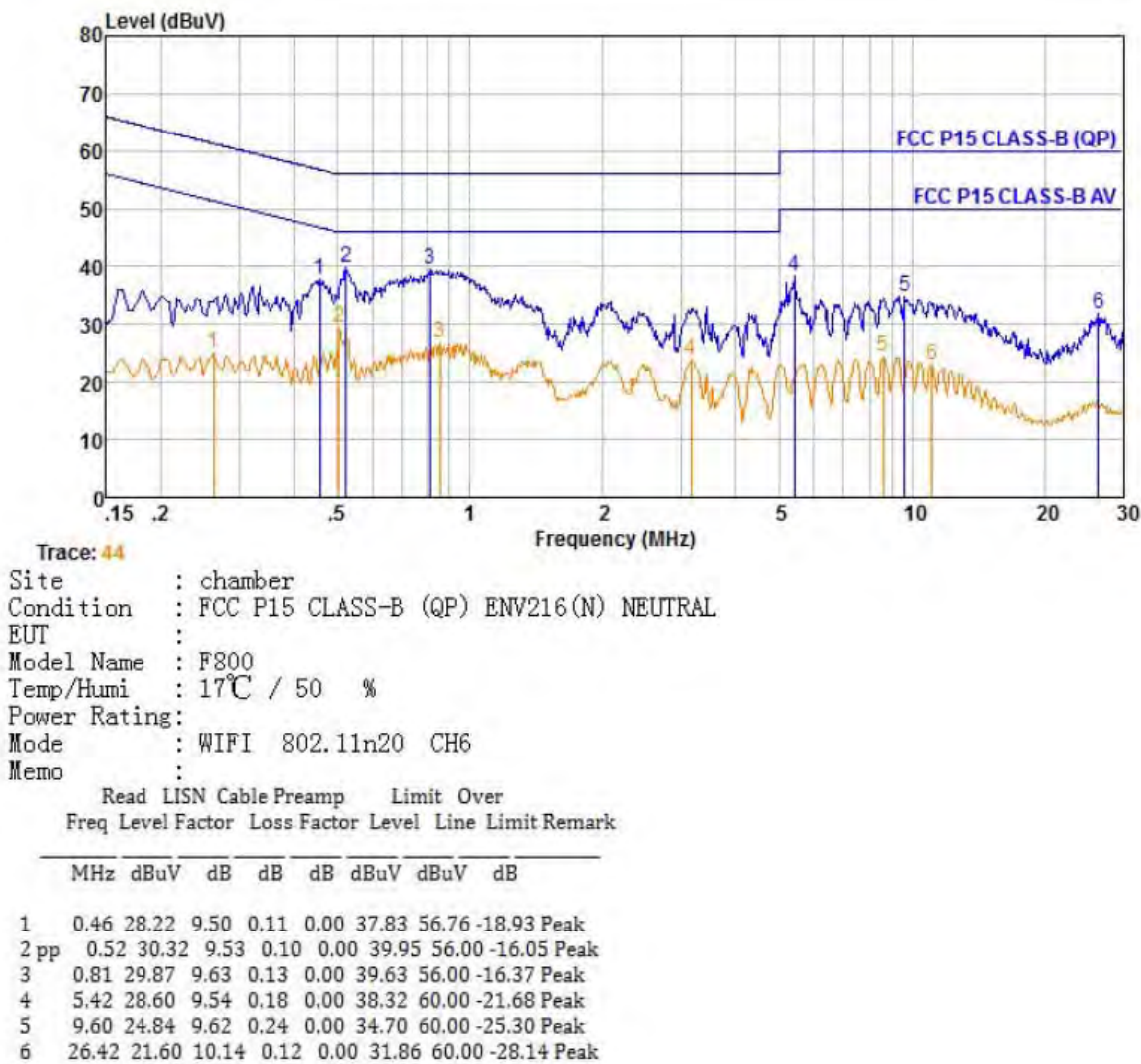
802.11n20 Ch1



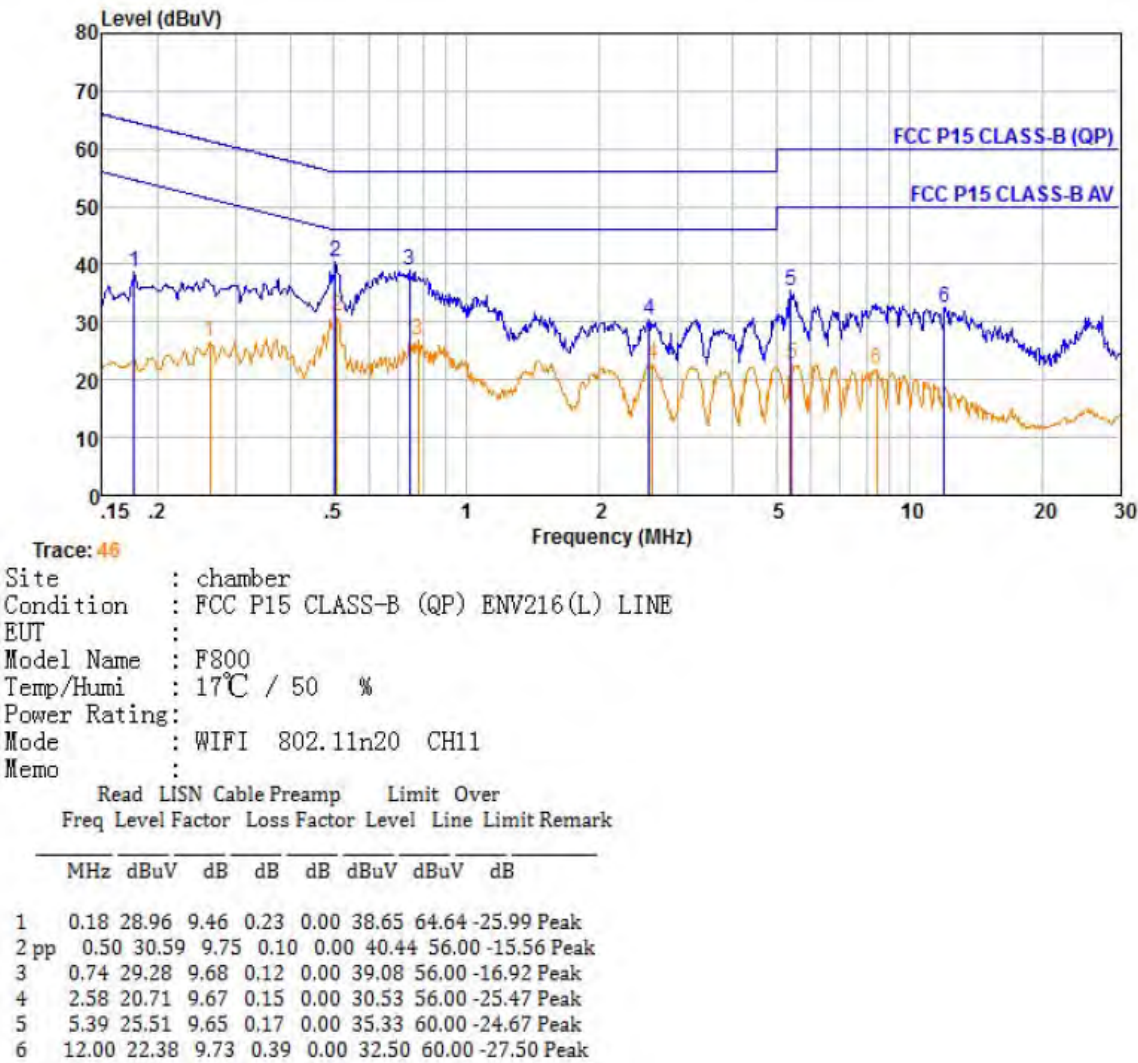


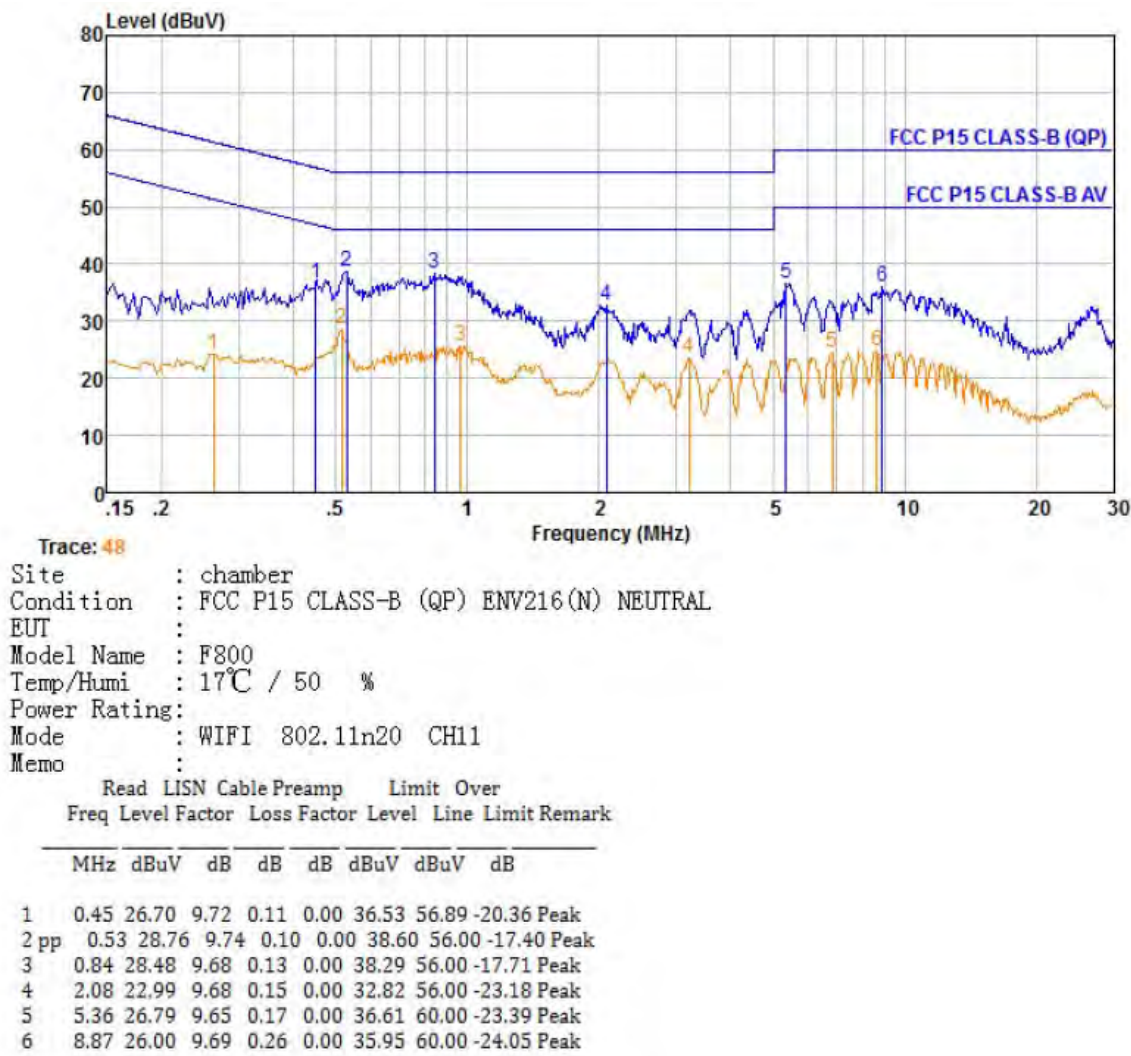
802.11n20 Ch6



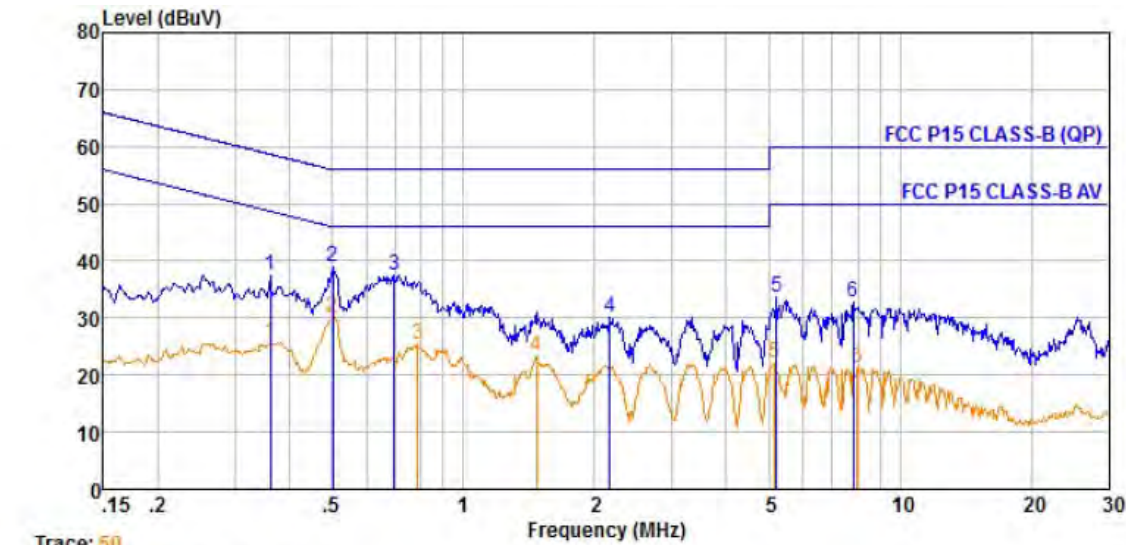


802.11n20 Ch11



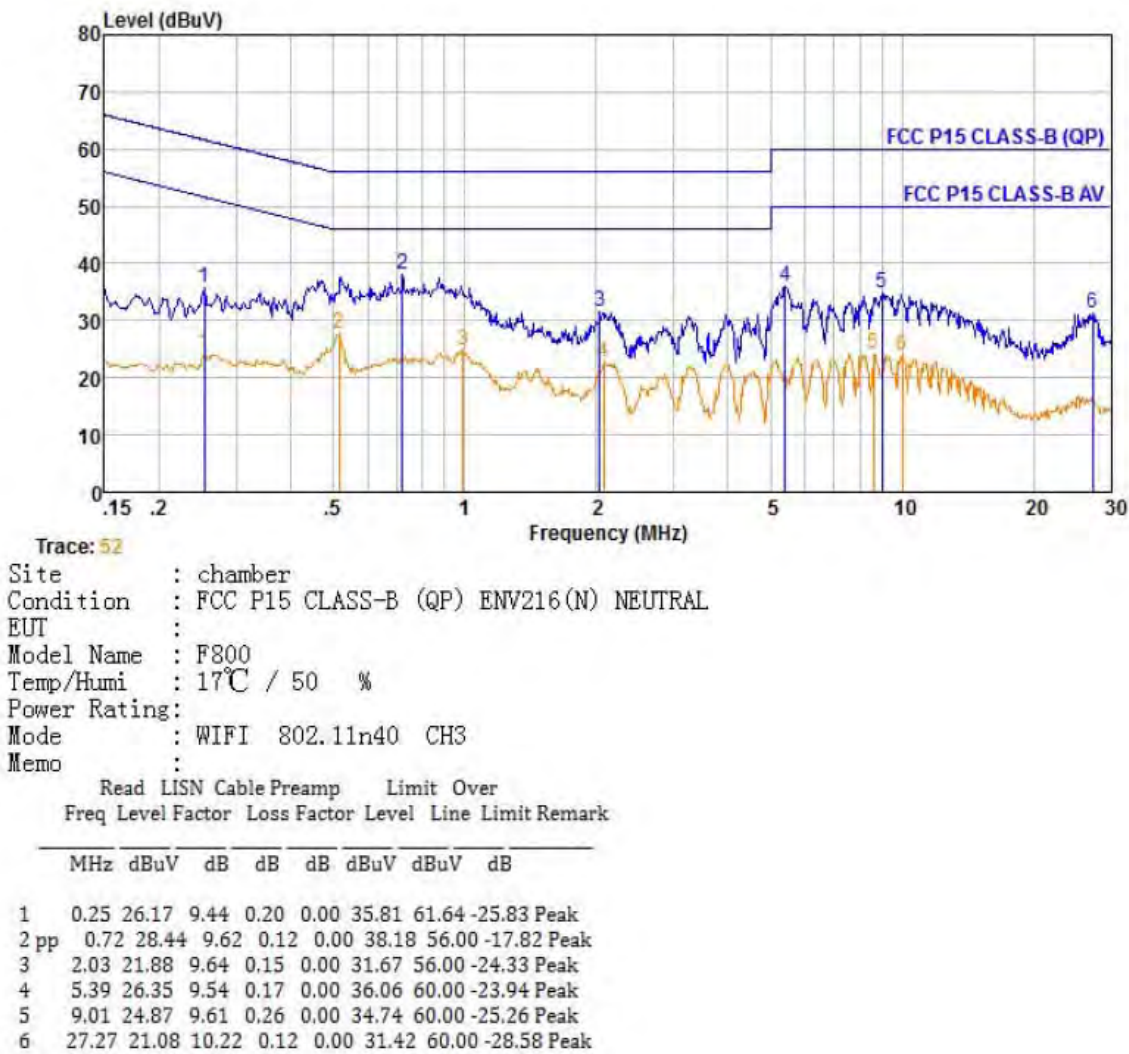


802.11n40 Ch3

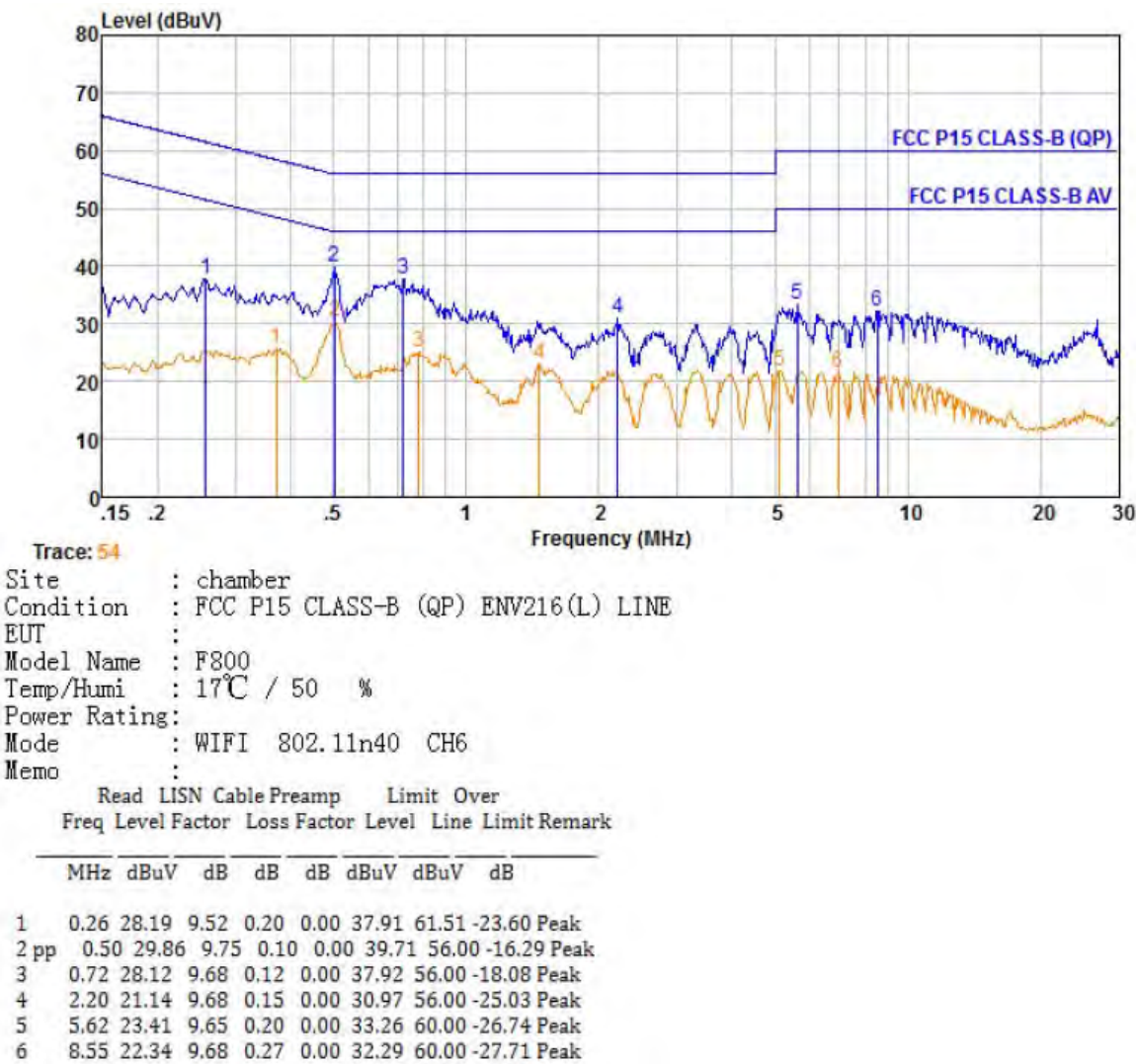


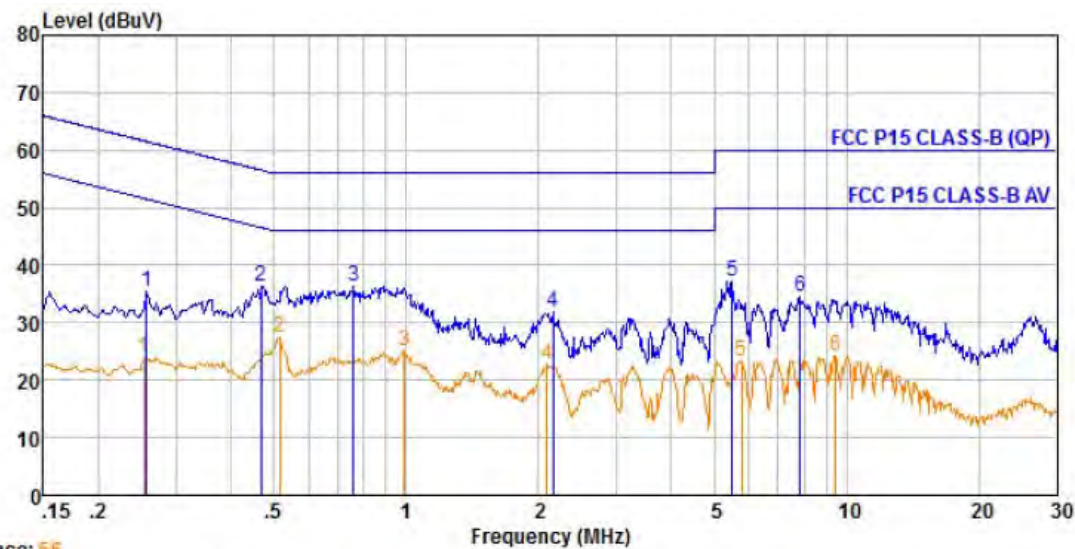
Site : chamber
Condition : FCC P15 CLASS-B (QP) ENV216(L) LINE
EUT :
Model Name : F800
Temp/Humi : 17°C / 50 %
Power Rating:
Mode : WIFI 802.11n40 CH3
Memo :

	Read	LISN	Cable	Preamp	Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line Limit Remark
	MHz	dBuV	dB	dB	dB	dBuV	dB
1	0.36	27.76	9.63	0.15	0.00	37.54	58.69 -21.15 Peak
2 pp	0.50	29.08	9.75	0.10	0.00	38.93	56.00 -17.07 Peak
3	0.69	27.58	9.68	0.12	0.00	37.38	56.00 -18.62 Peak
4	2.17	20.40	9.68	0.15	0.00	30.23	56.00 -25.77 Peak
5	5.22	23.89	9.65	0.16	0.00	33.70	60.00 -26.30 Peak
6	7.81	22.70	9.66	0.30	0.00	32.66	60.00 -27.34 Peak



802.11n40 Ch6

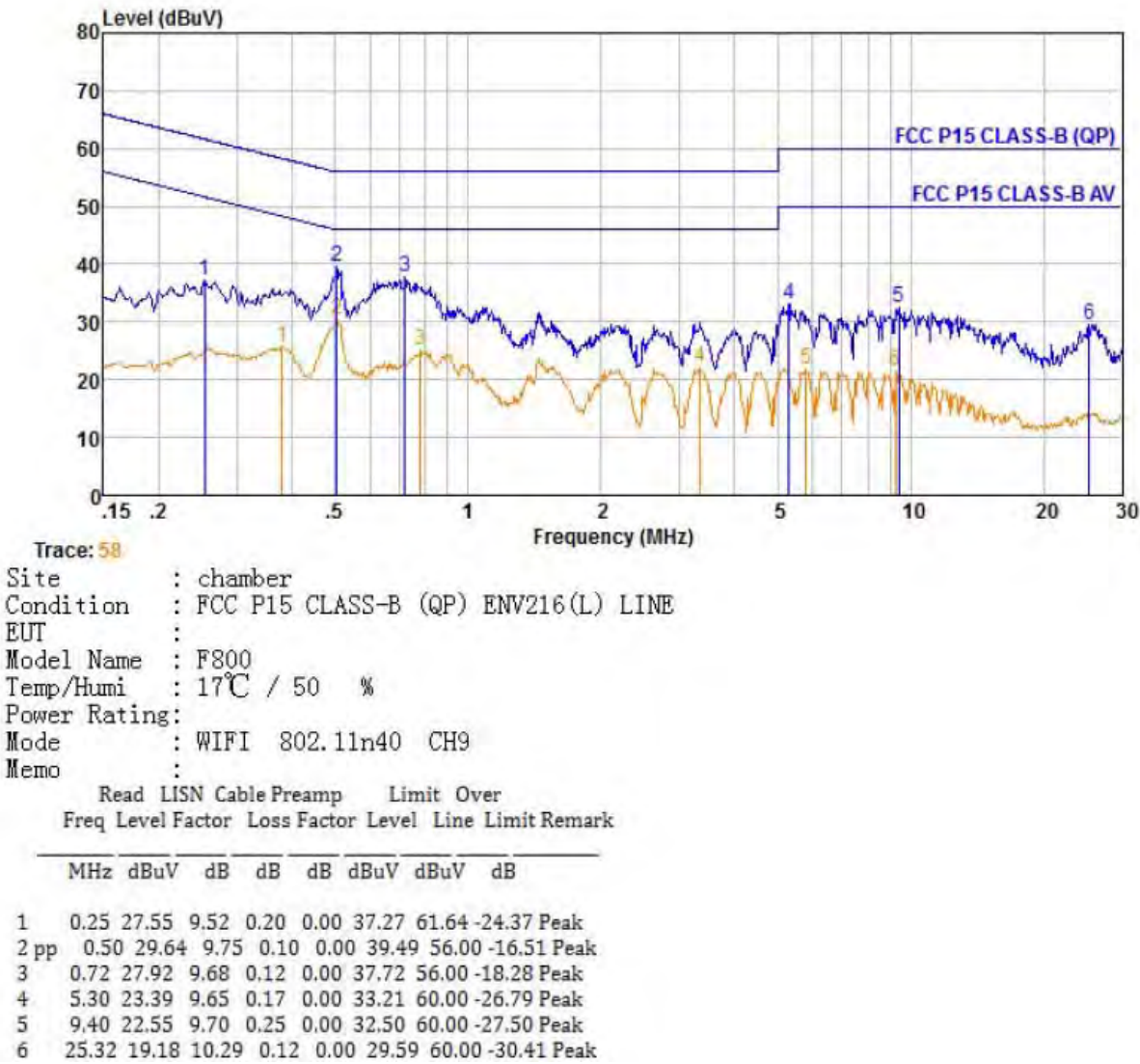


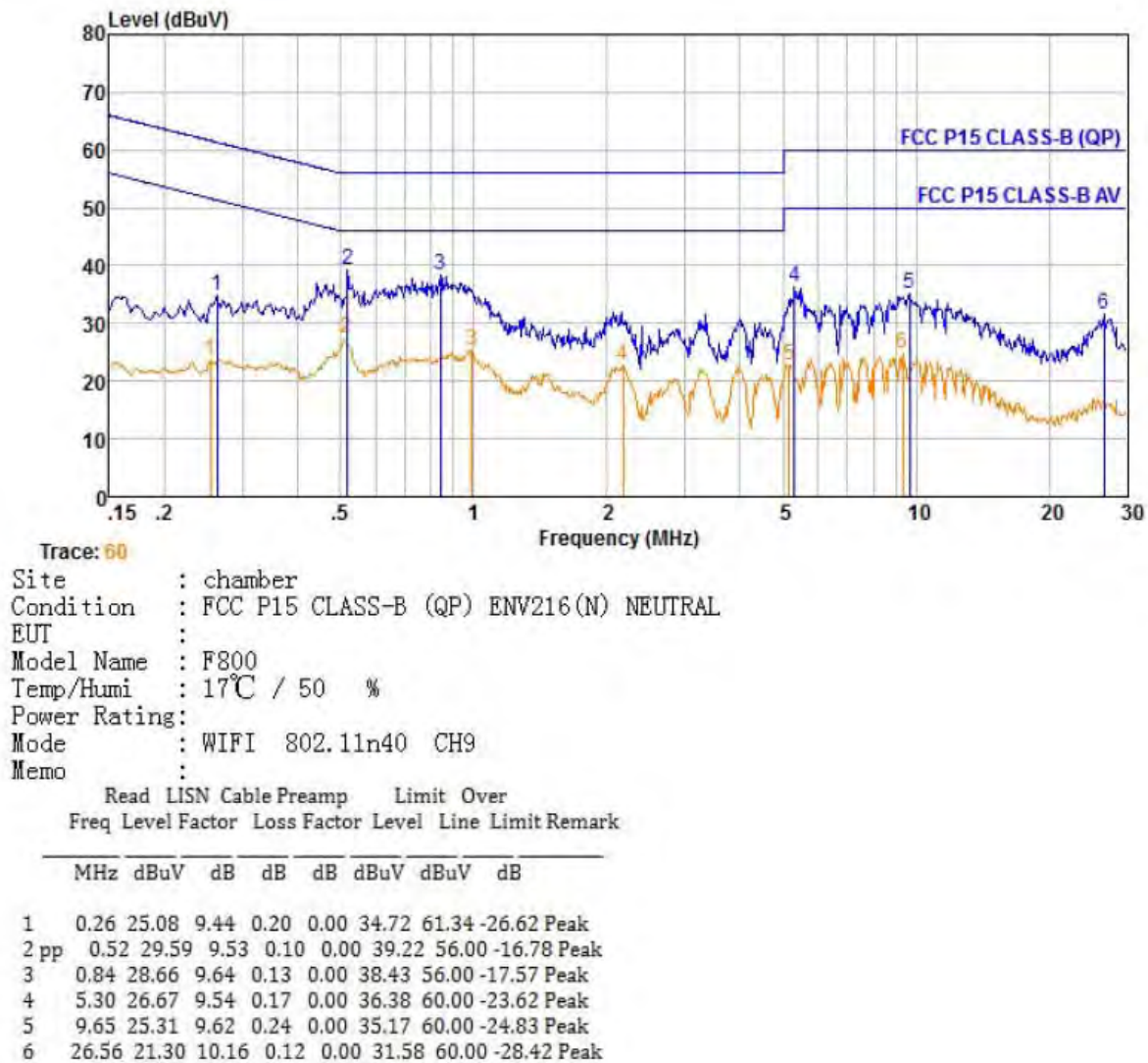


Trace: 56
Site : chamber
Condition : FCC P15 CLASS-B (QP) ENV216(N) NEUTRAL
EUT :
Model Name : F800
Temp/Humi : 17°C / 50 %
Power Rating:
Mode : WIFI 802.11n40 CH6
Memo :

	Read	LISN	Cable	Preamp		Limit	Over	
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB
1	0.26	25.73	9.44	0.20	0.00	35.37	61.51	-26.14 Peak
2	0.47	26.82	9.50	0.11	0.00	36.43	56.54	-20.11 Peak
3 pp	0.76	26.62	9.63	0.12	0.00	36.37	56.00	-19.63 Peak
4	2.16	22.17	9.63	0.15	0.00	31.95	56.00	-24.05 Peak
5	5.51	27.52	9.55	0.19	0.00	37.26	60.00	-22.74 Peak
6	7.85	24.76	9.61	0.29	0.00	34.66	60.00	-25.34 Peak

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APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Please refer to the file named “Part 15C Setup Photos”.

APPENDIX 2 PHOTOGRAPHS OF EUT

Please refer to the files named “EUT External Photos” and “EUT Internal Photos”.

----End of the report---