TEST REPORT

APPLICANT	:	Testo SE & Co. KGaA
PRODUCT NAME	:	WLAN-communication module
MODEL NAME	:	0554 9320
BRAND NAME	:	Testo
FCC ID	:	WAF-05549320
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2019-10-25
TEST DATE	:	2019-11-06 to 2019-11-11
ISSUE DATE	:	2019-11-19

Edited by: Peng Mi (Rapporteur)

Approved by: Peng Huarui (Supervisor)

MORLAB

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DIRECTORY

Change History		
Version	**Date**	**Reason for change**
1.0	2019-11-19	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Testo SE & Co. KGaA
Applicant Address:	Testo-Strasse 1, Lenzkirch 79853, Germany
Manufacturer:	Testo Instruments (Shenzhen) Co., Ltd.
Manufacturer Address:	Block A, B4 Building, China Merchants Guangming Sci&Tech Park, No.3009 Guan Guang Road, Guangming New District, Shenzhen, Guangdong, China

1.2. Equipment Under Test (EUT) Description

Product Name:	WLAN-communication module	
Serial No:	(N/A, marked #1 by test site)	
Hardware Version:	V2.5	
Software Version:	V3.12.0.1	
Equipment Type:	WLAN2.4G	
Modulation Type:	DSSS, OFDM	
Operating Frequency Range:	802.11b/g/ n(HT20): 2.412GHz - 2.472GHz	
Antenna Type:	Copper Tube Antenna	
Antenna Gain:	0.6dBi	
Test Fixture:	Power supply by logger	
	Input:	4*AA (Dry cell)
	Output:	Typ. 4V/1A

Note 1: We use the dedicated software to control the EUT continuous transmission.
Note 2: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Modulation Type and Data Rate of EUT

Modulation technology	Modulation Type	Data Rate (Mbps) Note1
DSSS (802.11b)	DBPSK	**1**
	DQPSK	2
	CCK	5.5/ 11
OFDM (802.11g)	BPSK	**6** / 9
	QPSK	12 / 18
	16QAM	24 / 36
	64QAM	48 / 54
OFDM (802.11n-20MHz)	BPSK	**6.5**
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65

Note1: The worst-case mode (bold face) in all data rates has been determined during the pre-scan, only the test data of the worst-case were recorded in this report.

1.4. The Channel Number and Frequency

Test Mode	Channel	Frequency (MHz)	Channel	Frequency (MHz)
802.11b/g/ n(HT20)	**1**	**2412**	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	**13**	**2472**
	7	**2442**		

Note1: The Lowest Channel (1), Middle Channel (7) and Highest Channel (13) was selected test for 802.11b/g/n(HT20) mode;

1.5. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	N/A	Duty Cycle Of Test Signal	Nov 07, 2019	Wang Meng	PASS	No deviation
3	15.247(b)	Maximum Peak and Average Conducted Output Power	Nov 08, 2019	Wang Meng	PASS	No deviation
4	15.247(a)	Bandwidth	Nov 07, 2019	Wang Meng	PASS	No deviation
5	15.247(d)	Conducted Spurious Emission and Band Edge	Nov 06, 2019	Wang Meng	PASS	No deviation
6	15.247(e)	Power Spectral Density (PSD)	Nov 06, 2019	Wang Meng	PASS	No deviation
7	15.207	Conducted Emission	N/A	N/A	N/A_{Note1}	N/A
8	15.247(d)	Restricted Frequency Bands	Nov 05, 2019	Li Zihao	PASS	No deviation
9	15.209, 15.247(d)	Radiated Emission	Nov 05, 2019	Li Zihao	PASS	No deviation

Note1: Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. This test case does not apply this kind of EUT.

Note2: The tests were performed according to the method of measurements prescribed in

ANSIC63.10-2013, KDB558074 D01 v05r02.

Note3: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipments. The ref offset 12dB contains two parts that cable loss 2dB and Attenuator 10dB.

Note 4: Additions to, deviation, or exclusions from the method should be judged in the "method determination" column of add, deviate or exclude from the specific method should be explained in the "Remark" of the above table.

1.6. Environmental Conditions

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

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2. 147 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

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

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

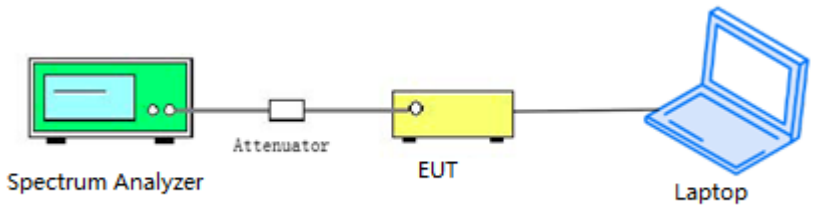
2.2. Duty Cycle of Test Signal

2.2.1. Requirement

Preferably, all measurements of maximum conducted (average) output power will be performed with the EUT transmitting continuously (i.e., with a duty cycle of greater than or equal to 98%). When continuous operation cannot be realized, then the use of sweep triggering/signal gating techniques can be used to ensure that measurements are made only during transmissions at the maximum power control level. Such sweep triggering/signal gating techniques will require knowledge of the minimum transmission duration (T) over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. Sweep triggering/signal gating techniques can then be used if the measurement/sweep time of the analyzer can be set such that it does not exceed T at any time that data are being acquired (i.e., no transmitter OFF-time is to be considered).
When continuous transmission cannot be achieved and sweep triggering/signal gating cannot be implemented, alternative procedures are provided that can be used to measure the average power; however, they will require an additional measurement of the transmitter duty cycle (D). Within this subclause, the duty cycle refers to the fraction of time over which the transmitter is ON and is transmitting at its maximum power control level. The duty cycle is considered to be constant if variations are less than ±2%; otherwise, the duty cycle is considered to be nonconstant.

2.2.2. Test Description

Test Setup:



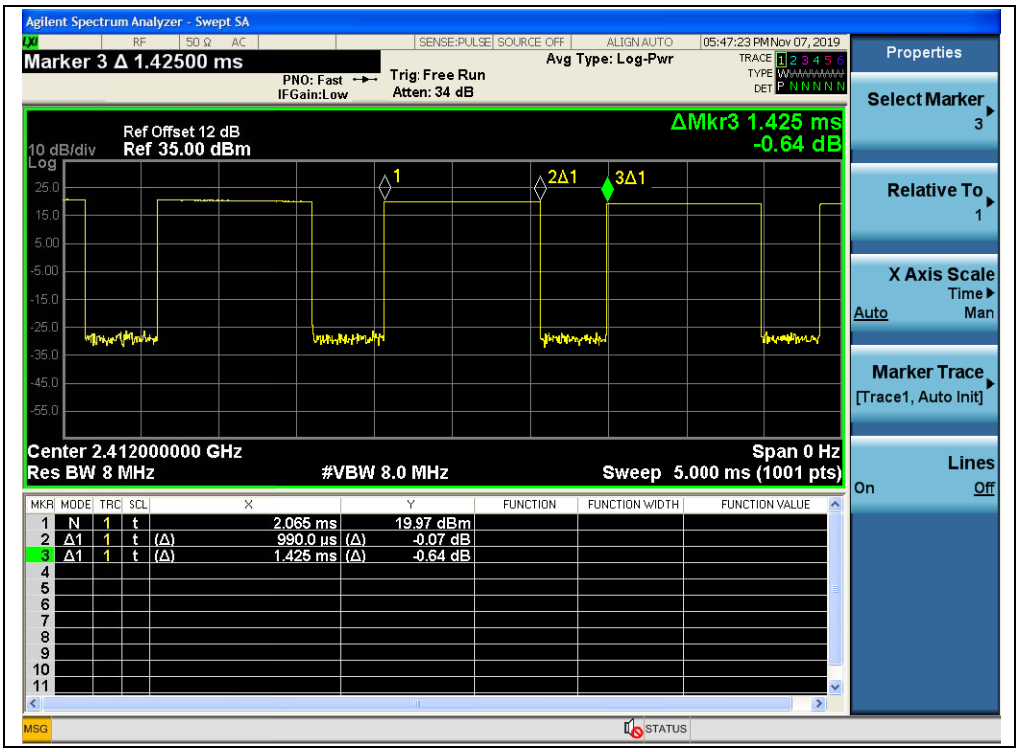
ANSI C63.10 2013 Clause 11.6 was used in order to prove compliance.

2.2.3. Test Result

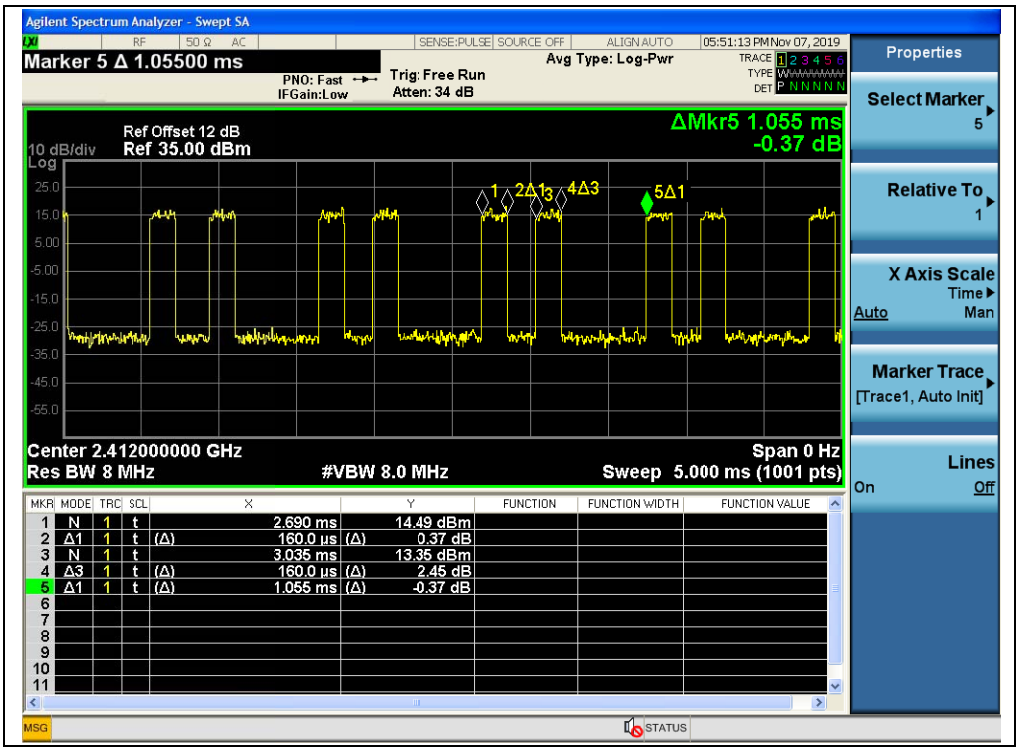
A. Test Verdict:

Test Mode	Duty Cycle (%) (D)	Duty Factor (10*lg[1/D])
802.11b	69.47	1.58
802.11g	30.33	5.18
802.11n(HT20)	31.28	5.05

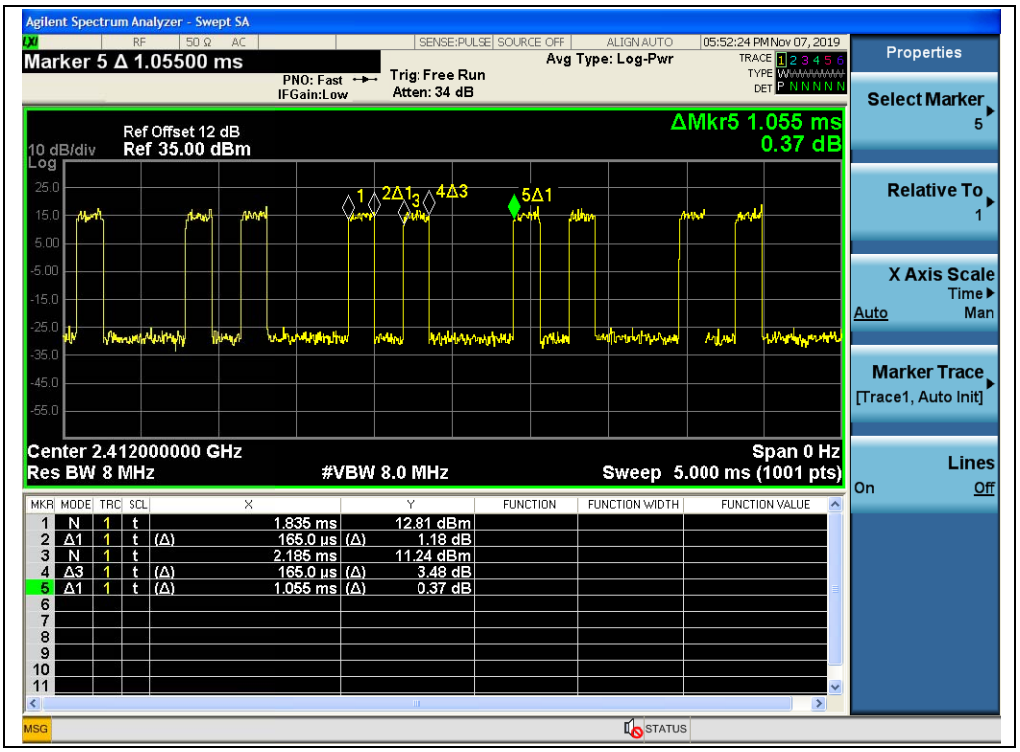
B. Test Plots



(Channel 1, 2412MHz, 802.11b)



(Channel 1, 2412MHz, 802.11g)



(Channel 1, 2412MHz, 802.11 n (HT20))

2.3. Maximum Peak and Average Conducted Output Power

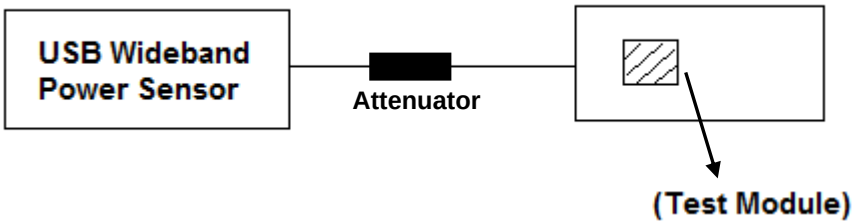
2.3.1. Requirement

According to FCC section 15.247(b)(3), For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: The maximum peak conducted output power of the intentional radiator shall not exceed1 Watt.

2.3.2. Test Description

The measured output power was calculated by the reading of the USB Wideband Power Sensor and calibration.

Test Setup:



The EUT (Equipment under the test) which is coupled to the USB Wideband Power Sensor; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.3.3. Test Result

Maximum Peak Conducted Output Power

802.11b Test Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	17.29	0.054	30	1	PASS
7	2442	17.25	0.053			PASS
13	2472	16.40	0.044			PASS

802.11g Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	19.69	0.093	30	1	PASS
7	2442	**20.20**	**0.105**			PASS
13	2472	19.85	0.097			PASS

802.11n (HT20) Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	19.44	0.088	30	1	PASS
7	2442	19.80	0.095			PASS
13	2472	19.57	0.091			PASS

Maximum Average Conducted Output Power

802.11b Test Mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty factor Calculated				
		dBm		dBm	W	dBm	W	
1	2412	13.63	1.58	15.21	0.033	30	1	PASS
7	2442	13.55		15.13	0.033			PASS
13	2472	12.84		14.42	0.028			PASS

802.11g Test mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty factor Calculated				
		dBm		dBm	W	dBm	W	
1	2412	5.87	5.18	11.05	0.013	30	1	PASS
7	2442	10.46		**15.64**	**0.037**			PASS
13	2472	9.29		14.47	0.028			PASS

802.11n (HT20) Test mode

Channel	Frequency (MHz)	Average Power				Limit		Verdict
		Measured	Duty Factor	Duty factor Calculated				
		dBm		dBm	W	dBm	W	
1	2412	5.63	5.05	10.68	0.012	30	1	PASS
7	2442	9.34		14.39	0.027			PASS
13	2472	8.24		13.29	0.021			PASS

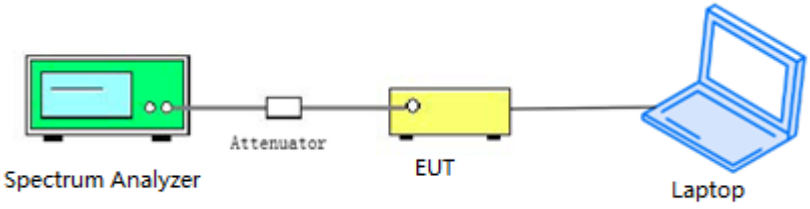
2.4. Bandwidth

2.4.1. Requirement

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

2.4.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

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

2.4.3. Test Procedure

KDB 558074 Section 8.2 was used in order to prove compliance.

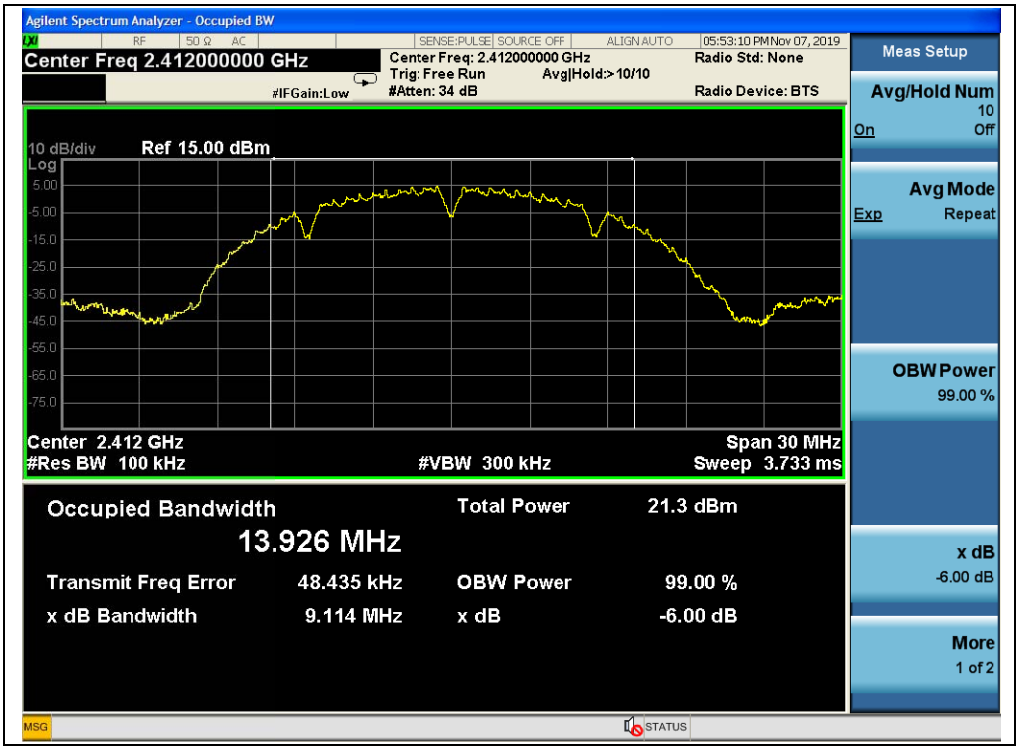
2.4.4. Test Result

802.11b Test mode

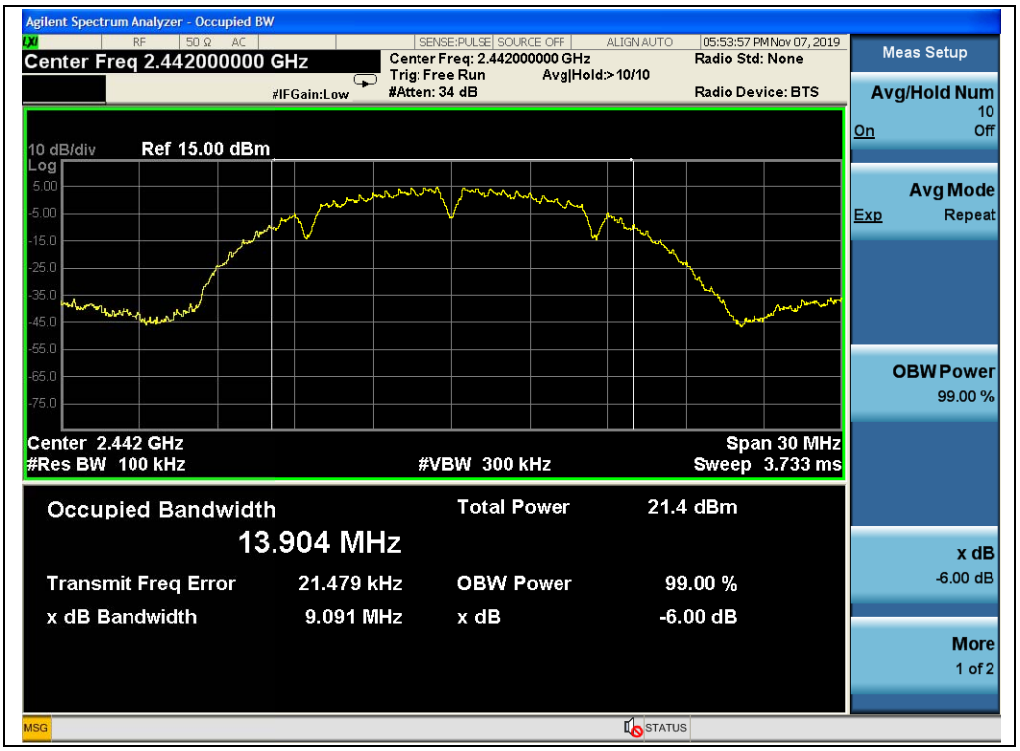
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	9.11	≥500	PASS
7	2442	9.09	≥500	PASS
13	2472	9.07	≥500	PASS

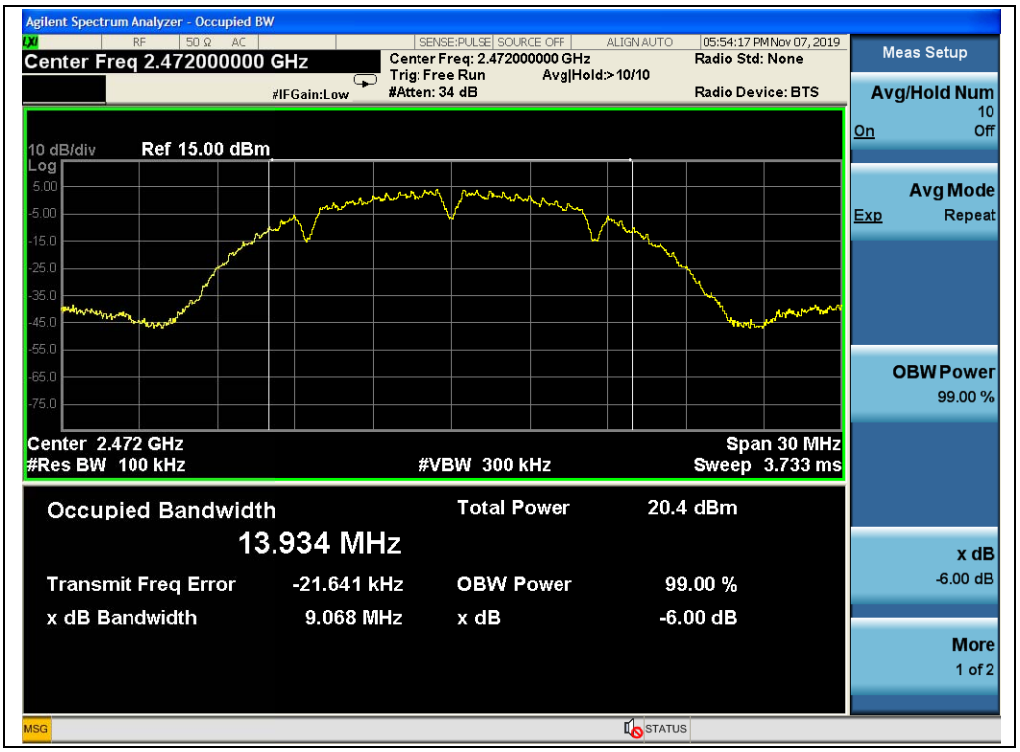
B. Test Plots



(Channel 1, 802.11b)



(Channel 7, 802.11b)



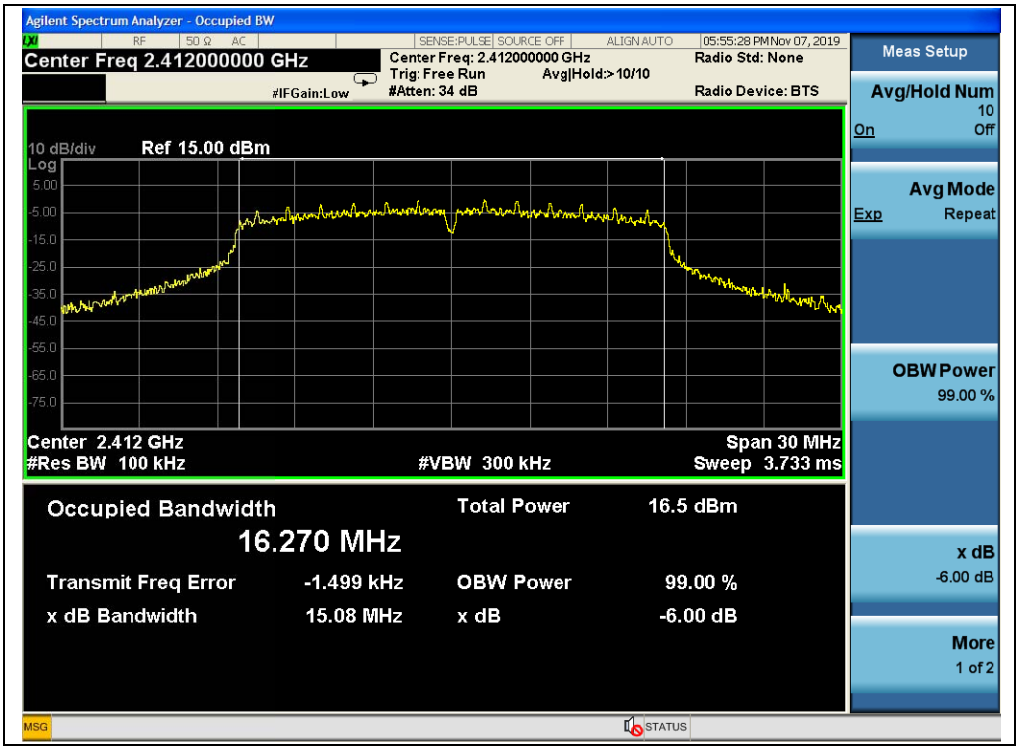
(Channel 13, 802.11b)

802.11g Test mode

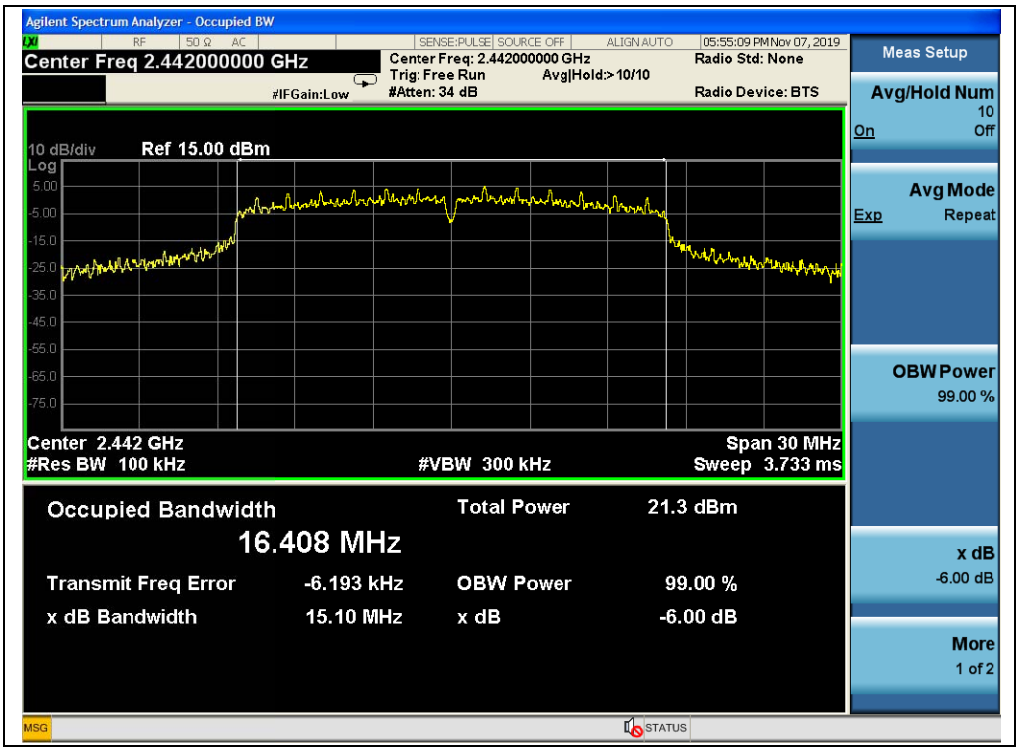
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.08	≥500	PASS
7	2442	15.10	≥500	PASS
13	2472	15.10	≥500	PASS

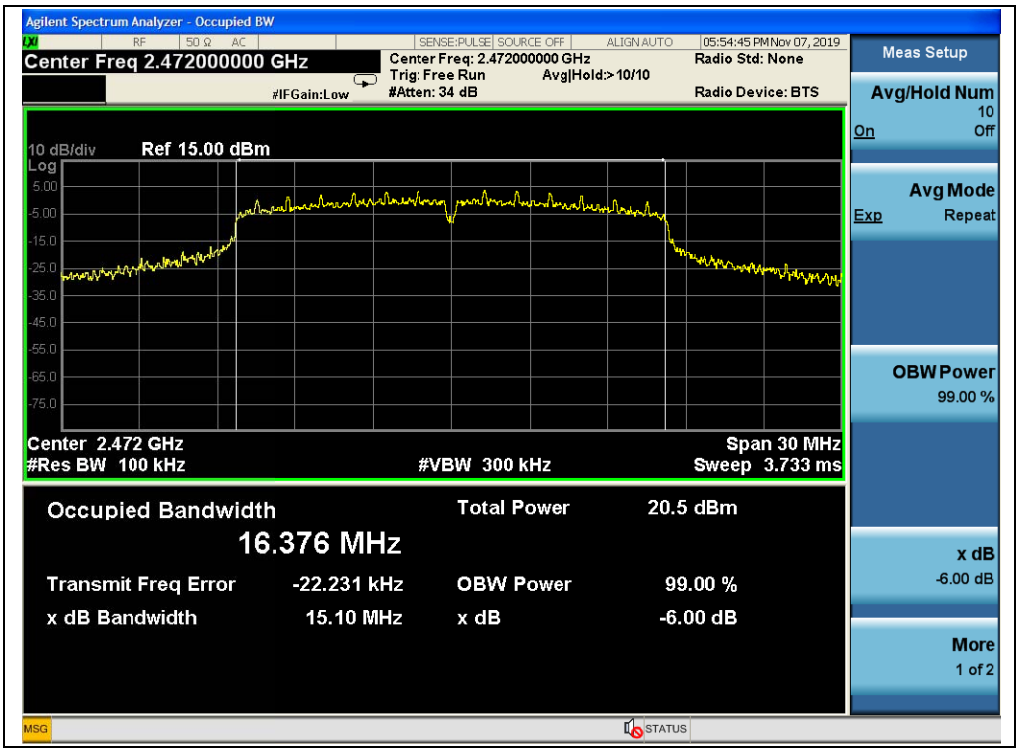
B. Test Plots:



(Channel 1, 802.11g)



(Channel 7, 802.11g)



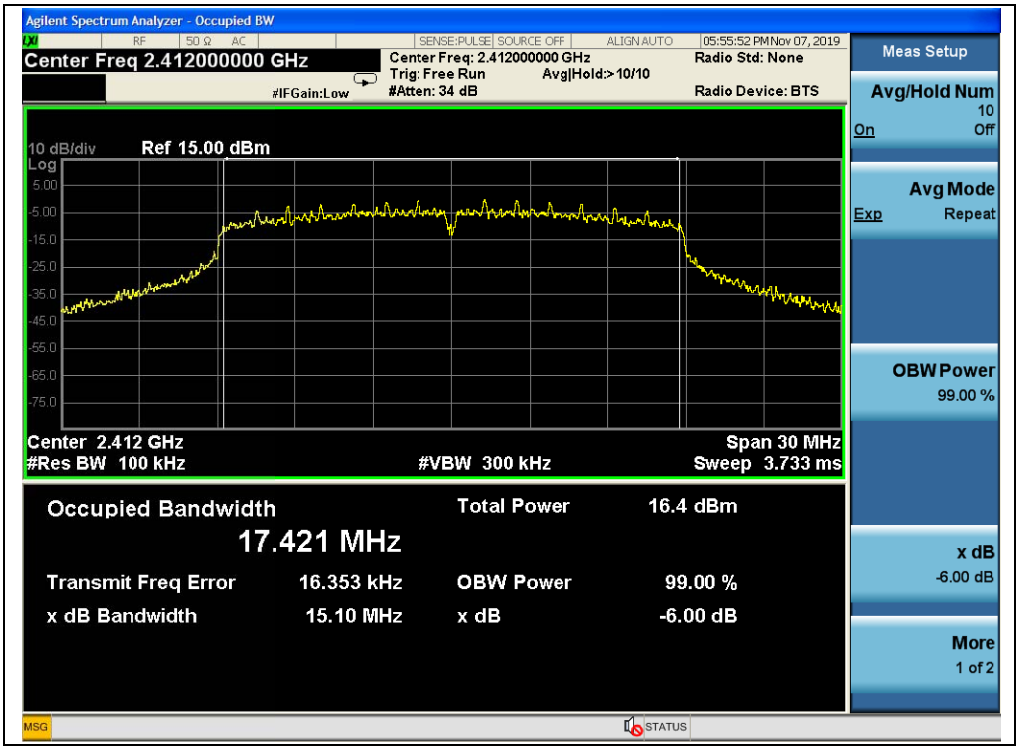
(Channel 13, 802.11g)

802.11n (HT20) Test mode

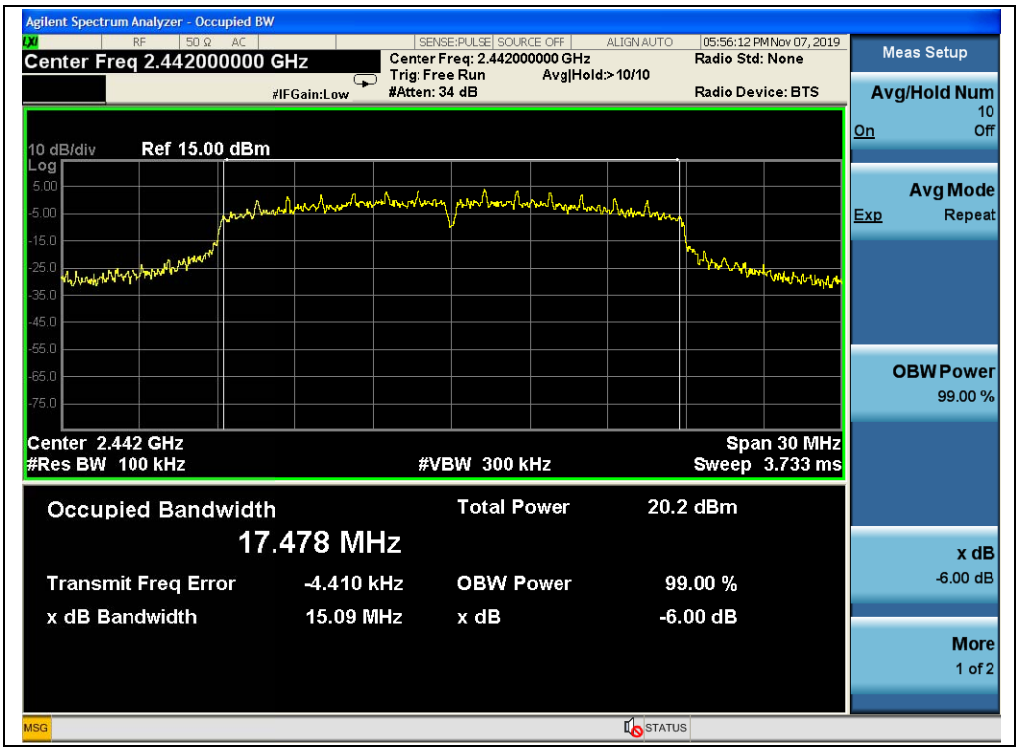
A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.10	≥500	PASS
7	2442	15.09	≥500	PASS
13	2472	15.10	≥500	PASS

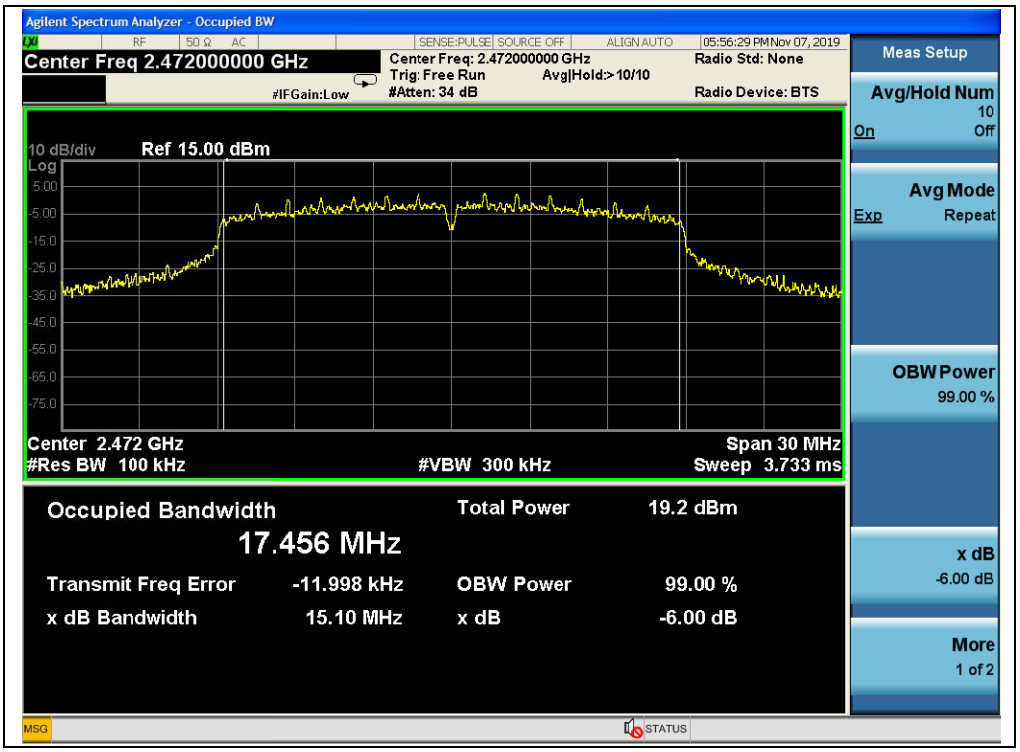
B. Test Plots:



(Channel 1, 802.11n(HT20))



(Channel 7, 802.11n(HT20))



(Channel 13, 802.11n(HT20))

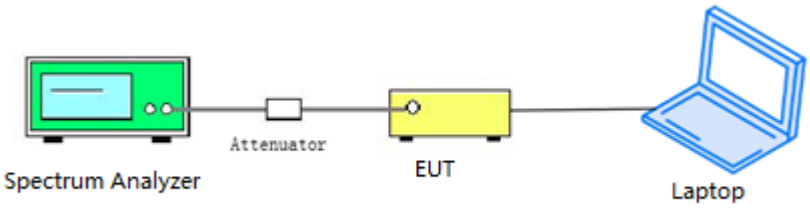
2.5. Conducted Spurious Emissions and Band Edge

2.5.1. Requirement

According to FCC section 15.247(c), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

2.5.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

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

2.5.3. Test Procedure

KDB 558074 Section 8.5 and 8.7 was used in order to prove compliance.

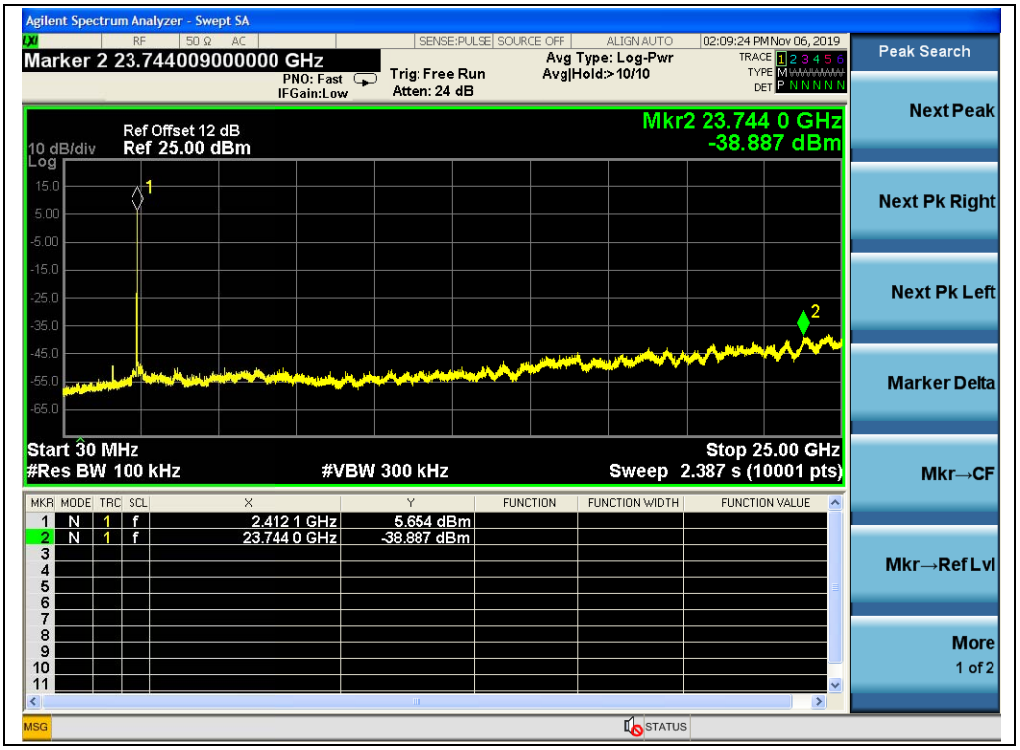
2.5.4. Test Result

802.11b Test mode

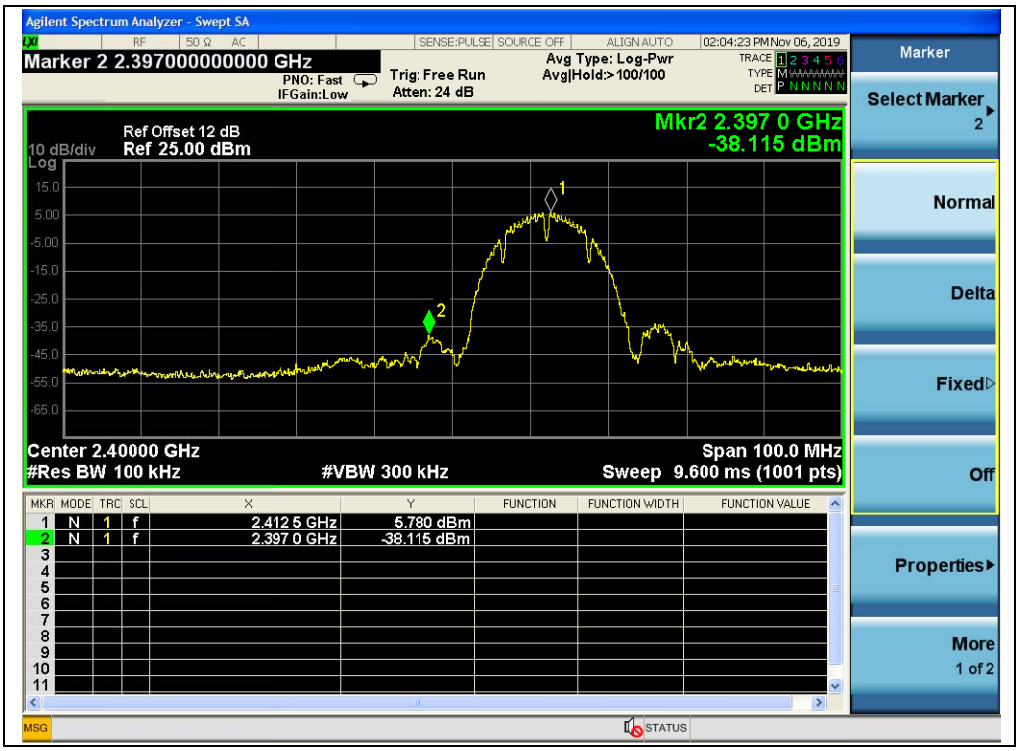
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-38.89	5.65	-14.35	PASS
7	2442	-38.76	5.57	-14.43	PASS
13	2472	-38.33	4.39	-15.61	PASS

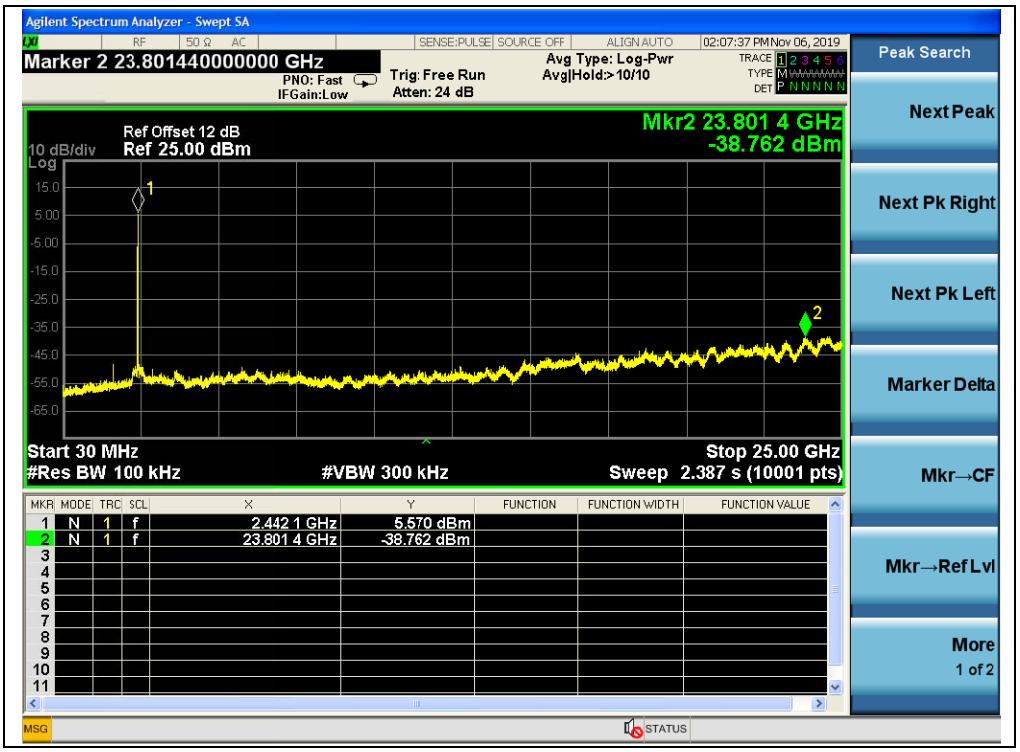
B. Test Plots:



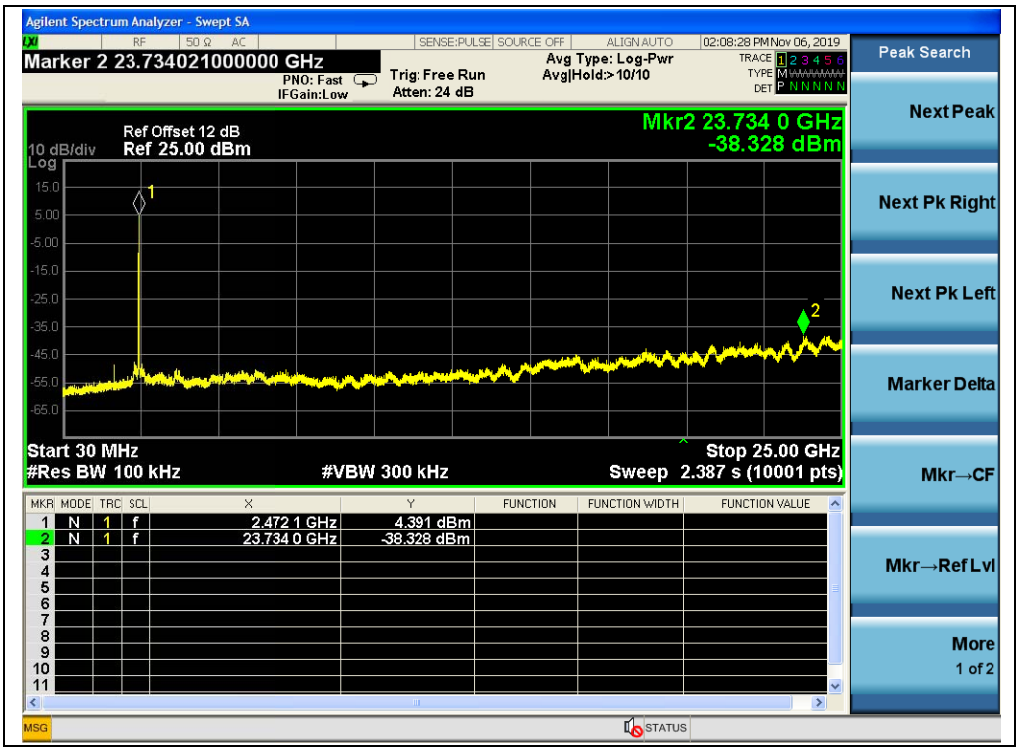
(Channel = 1, 30MHz to 25GHz)



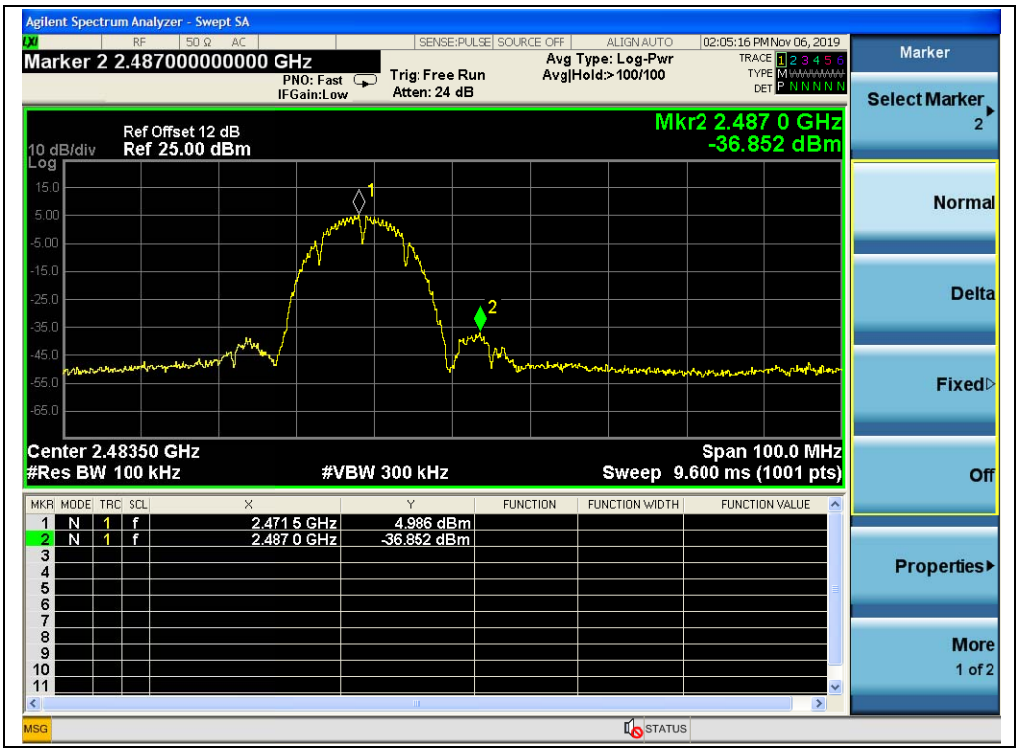
(Band Edge, Channel = 1)



(Channel = 7, 30MHz to 25GHz)



(Channel = 13, 30MHz to 25GHz)



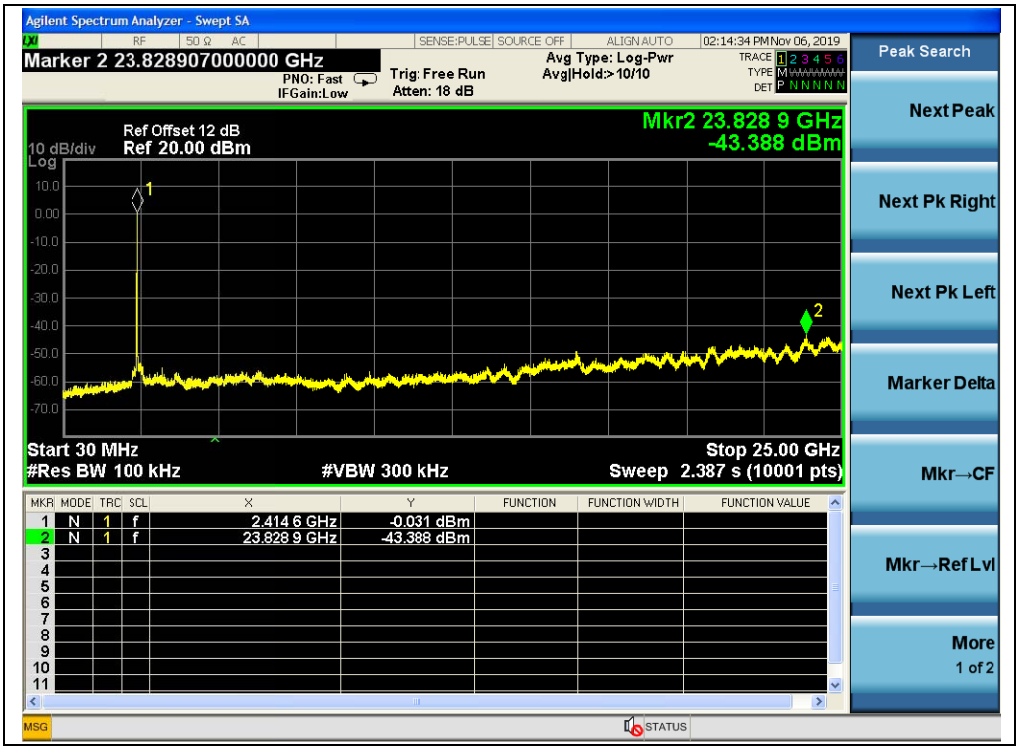
(Band Edge, Channel = 13)

802.11g Test mode

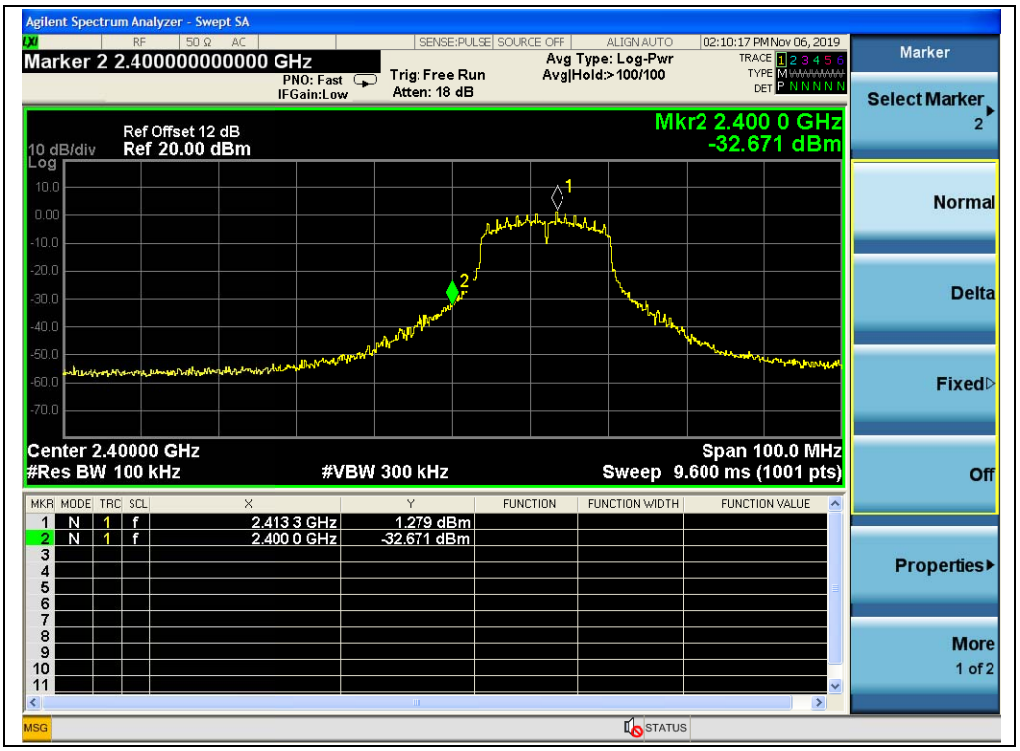
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-43.39	-0.03	-20.03	PASS
7	2442	-43.77	5.67	-14.33	PASS
13	2472	-43.76	3.48	-16.52	PASS

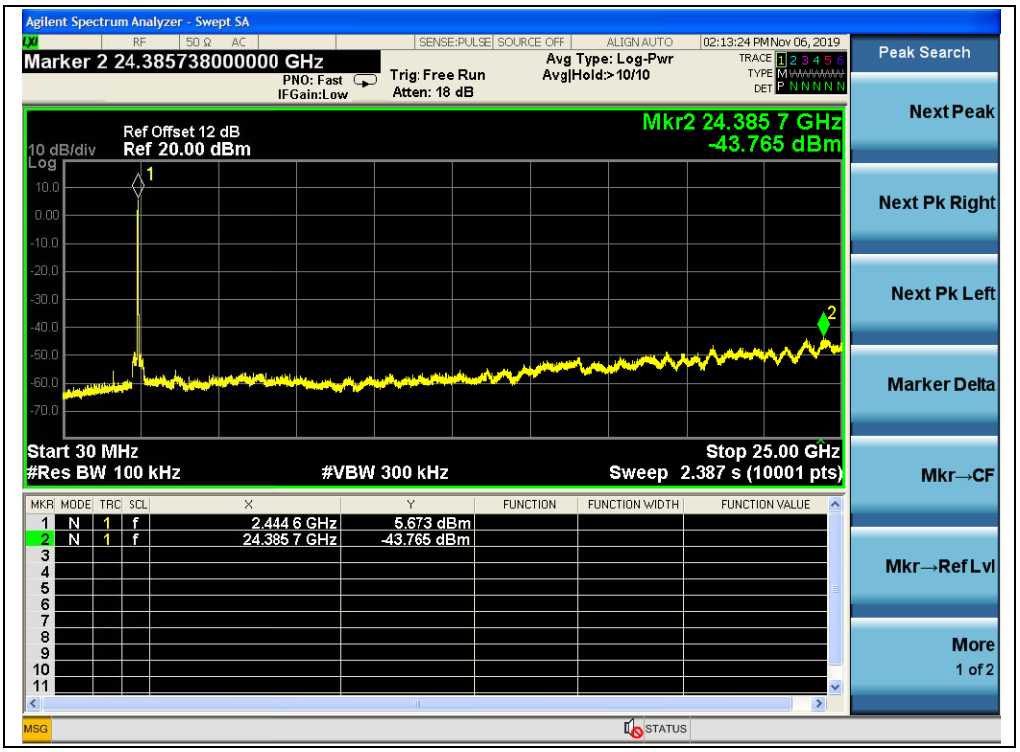
B. Test Plots:



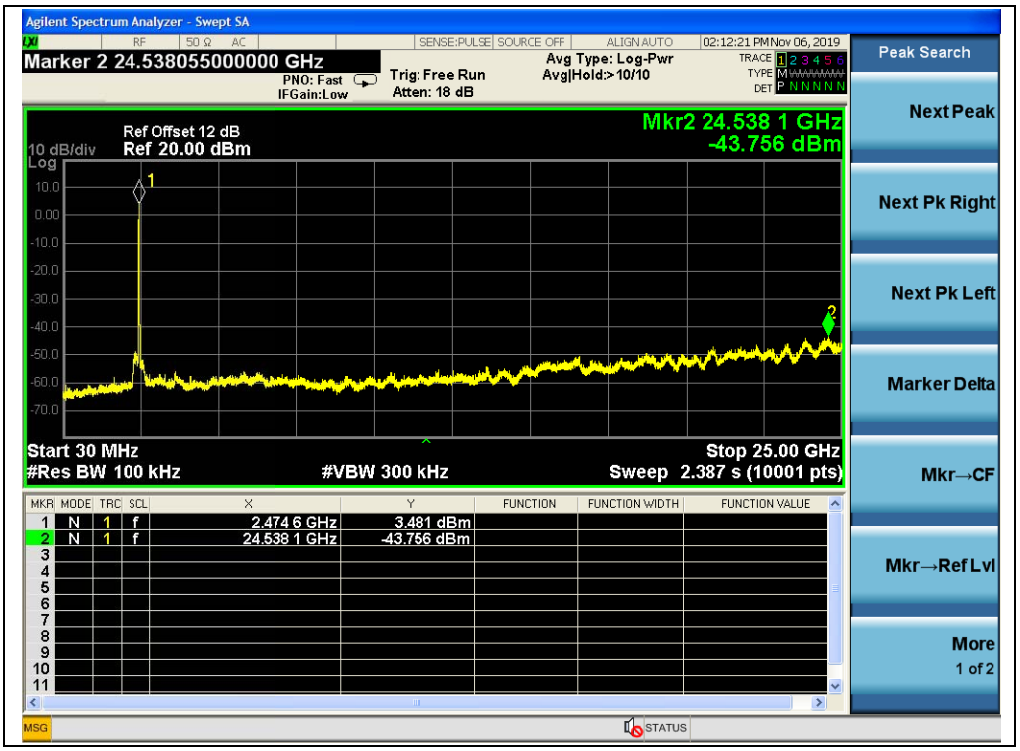
(Channel = 1, 30MHz to 25GHz)



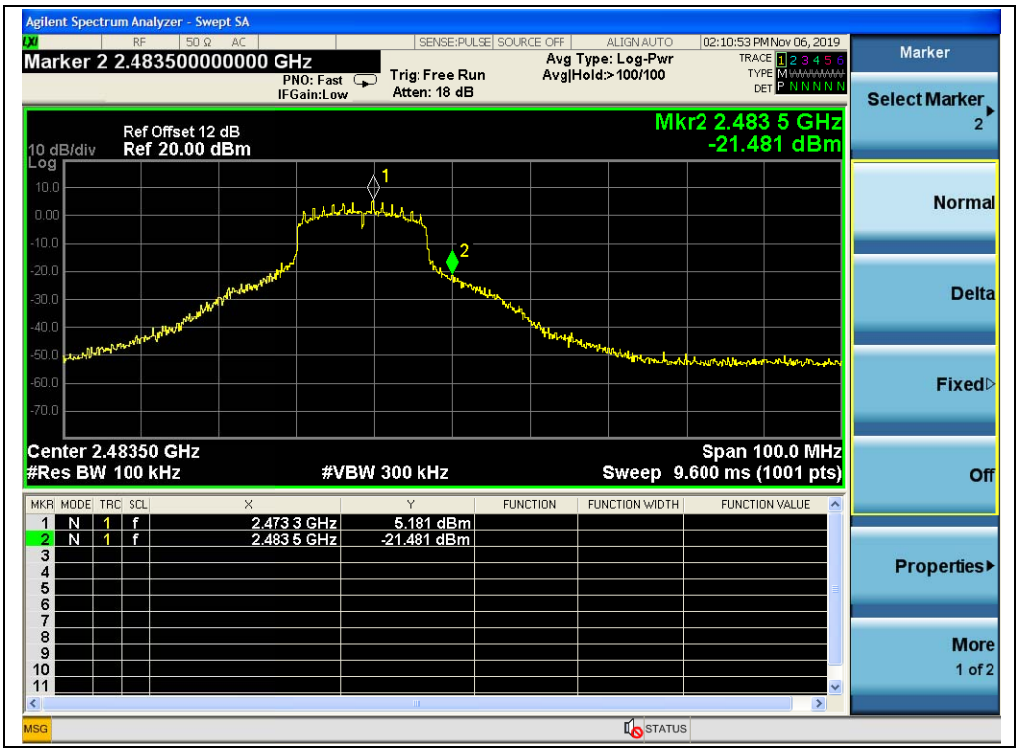
(Band Edge, Channel = 1)



(Channel = 7, 30MHz to 25GHz)



(Channel = 13, 30MHz to 25GHz)



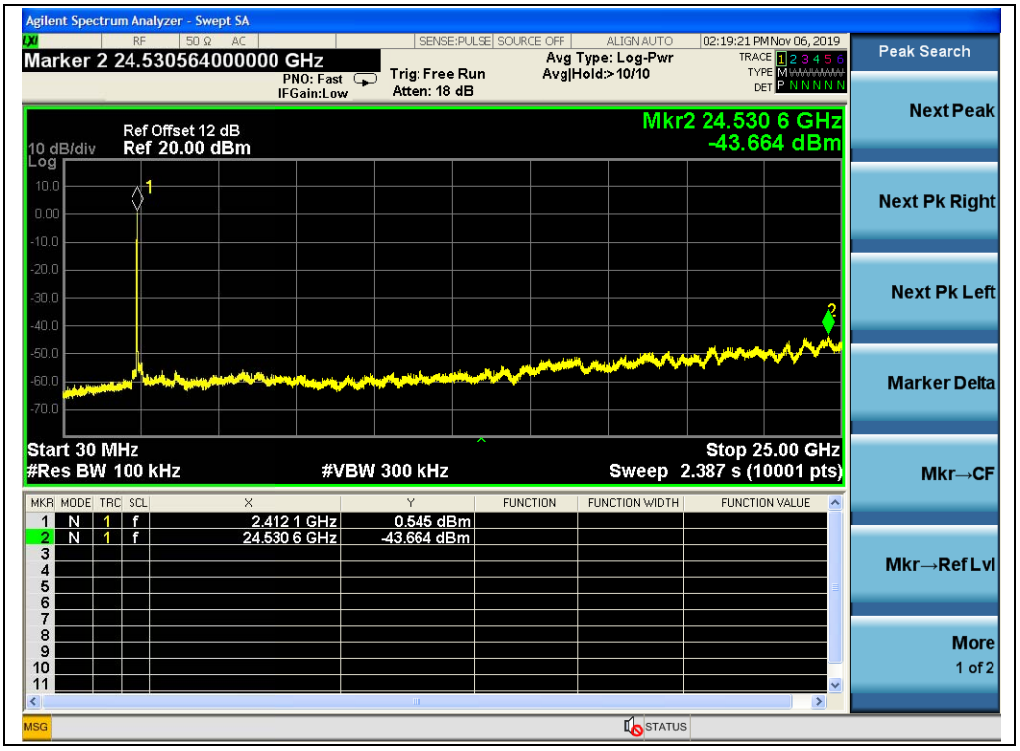
(Band Edge, Channel = 13)

802.11n (HT20) Test mode

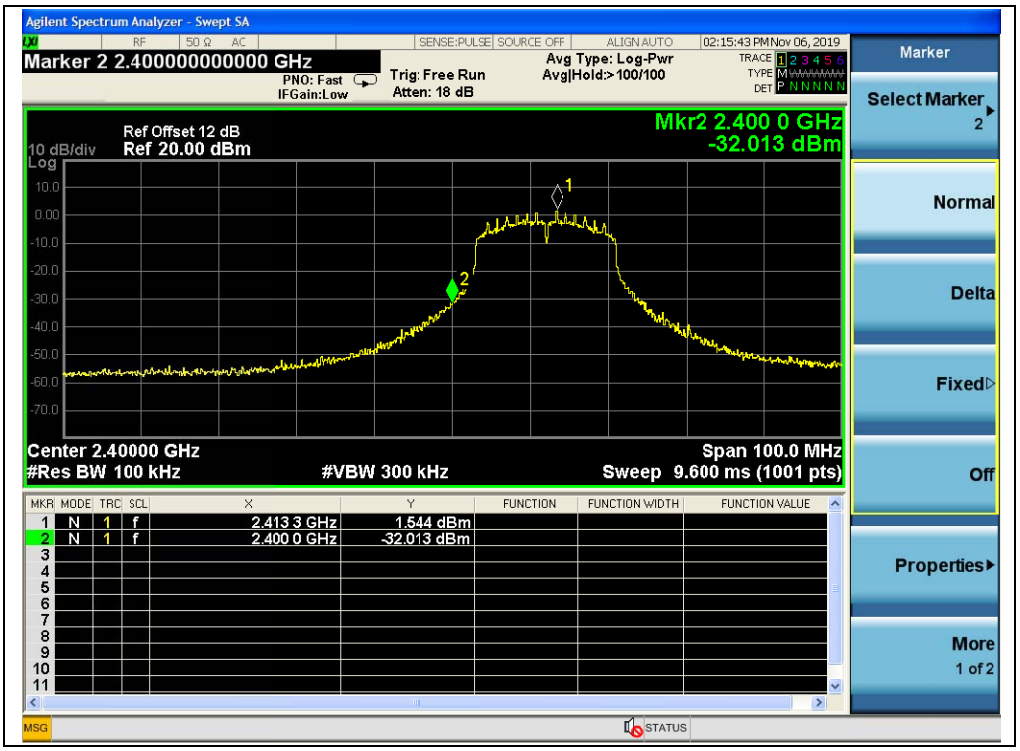
A. Test Verdict:

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated -20dBc Limit	
1	2412	-43.66	0.55	-19.45	PASS
7	2442	-44.60	1.98	-18.02	PASS
13	2472	-43.39	2.21	-17.79	PASS

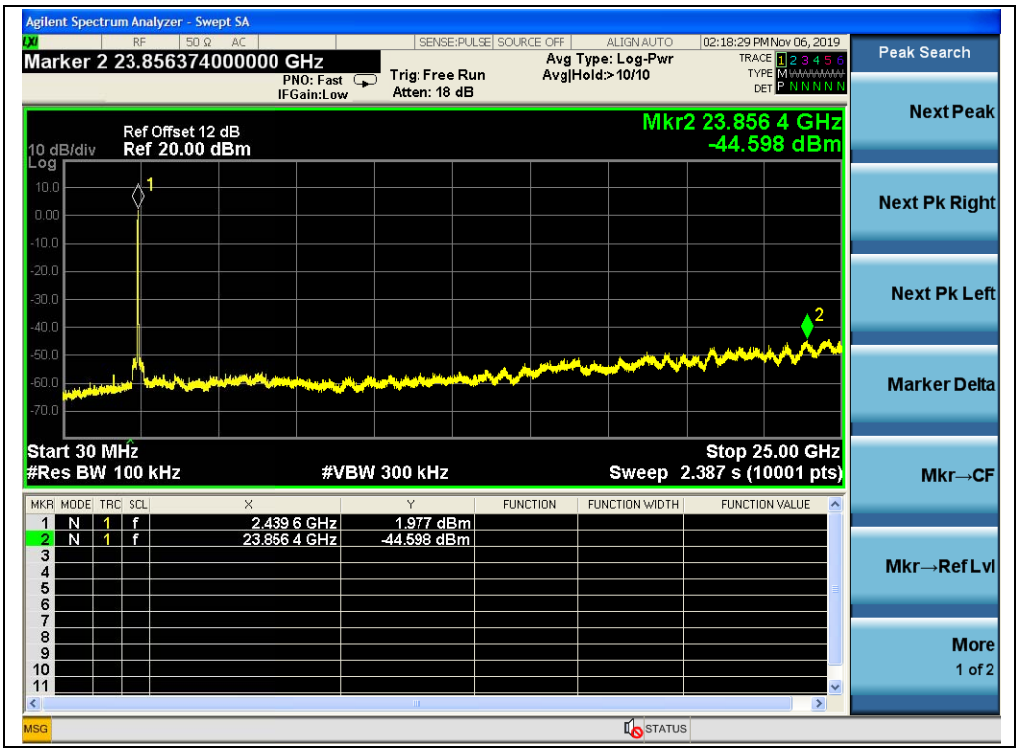
B. Test Plots:



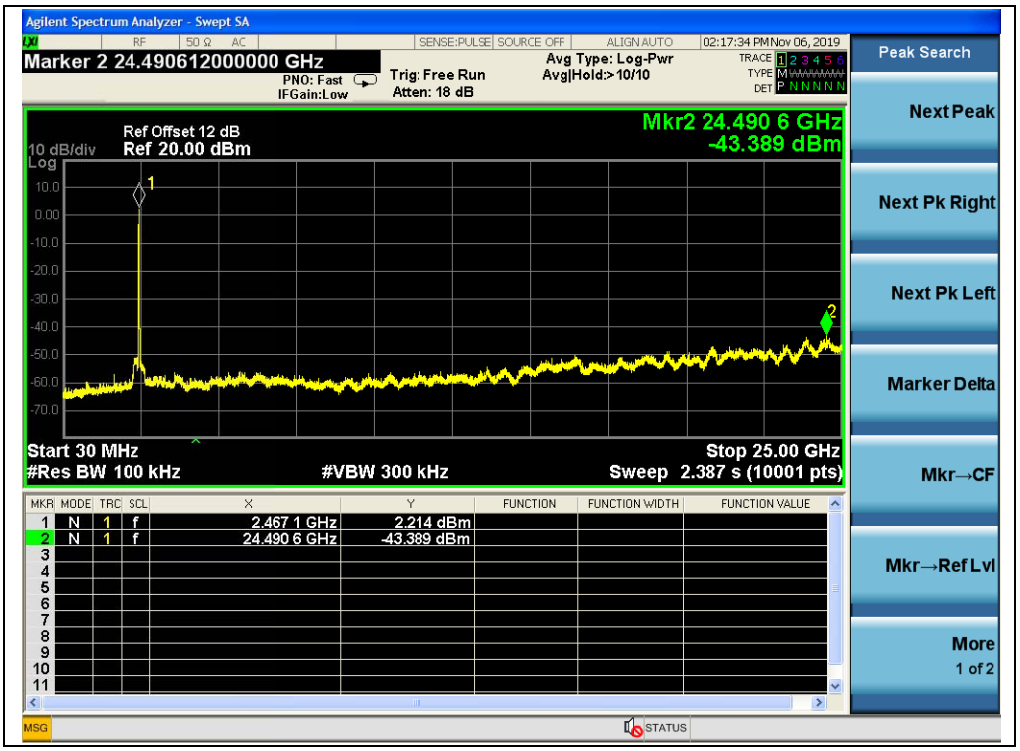
(Channel = 1, 30MHz to 25GHz)



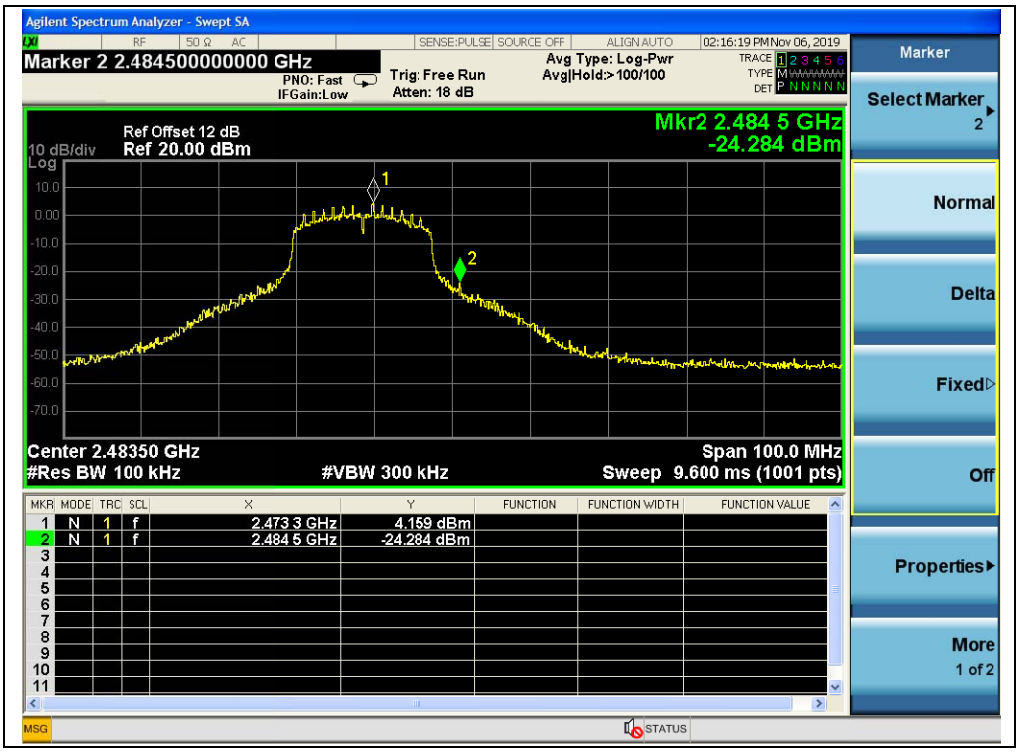
(Band Edge, Channel = 1)



(Channel = 7, 30MHz to 25GHz)



(Channel = 13, 30MHz to 25GHz)



(Band Edge, Channel = 13)

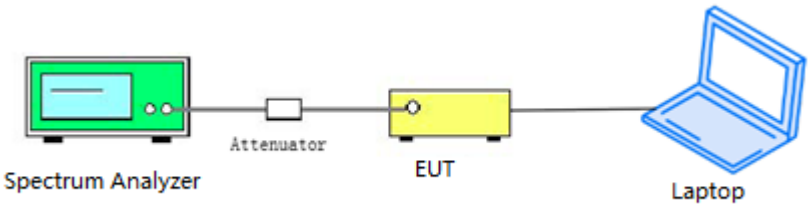
2.6. Power Spectral Density (PSD)

2.6.1. Requirement

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

2.6.2. Test Description

Test Setup:



The EUT is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading.

2.6.3. Test Procedure

KDB 558074 Section 8.4 was used in order to prove compliance.

2.6.4. Test Result

802.11b Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-8.59	8	PASS
7	2442	-8.47	8	PASS
13	2472	-9.04	8	PASS

B. Test Plots:

(Channel = 1, 802.11b)

(Channel = 7, 802.11b)

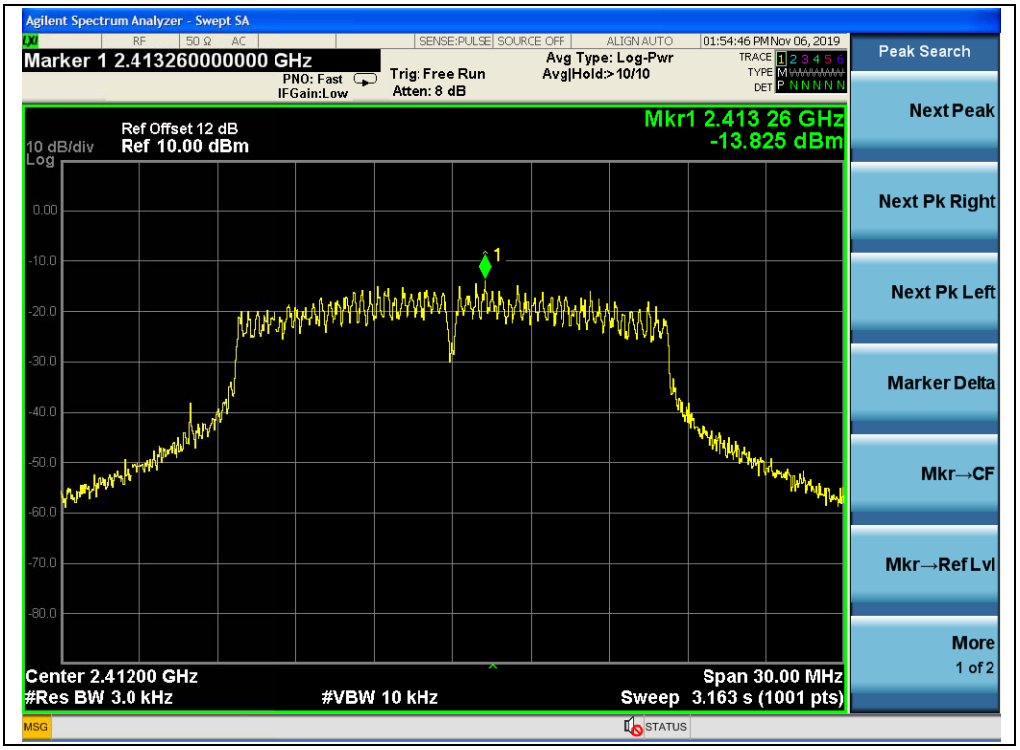
(Channel = 13, 802.11b)

802.11g Test mode

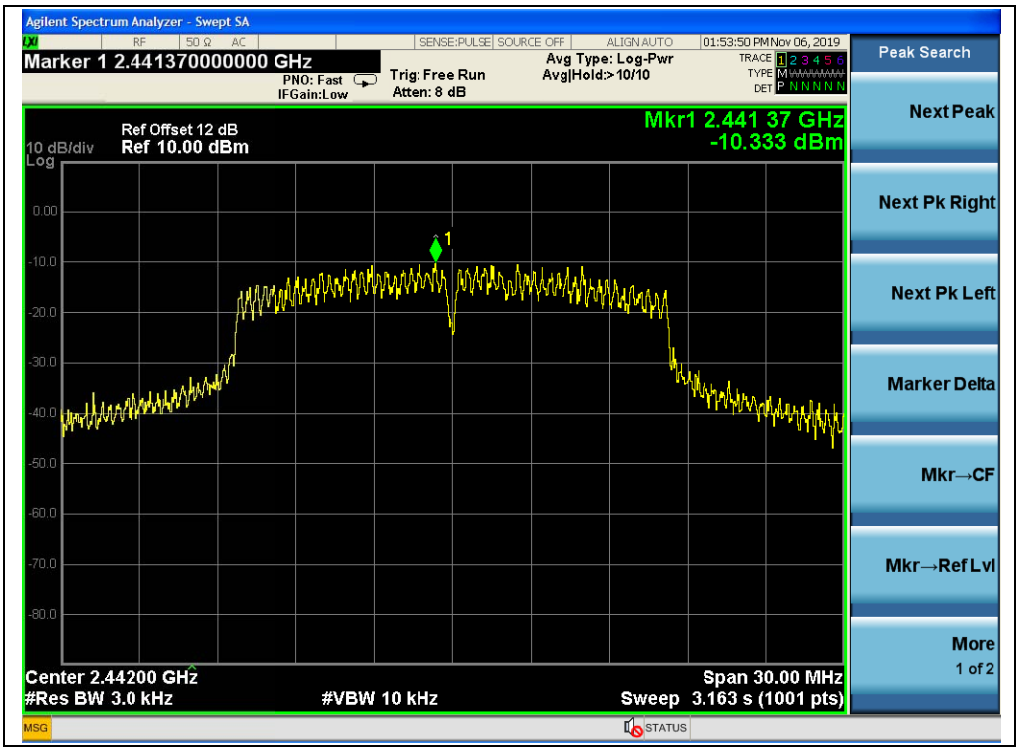
A. Test Verd0.90t:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-13.83	8	PASS
7	2442	-10.33	8	PASS
13	2472	-10.67	8	PASS

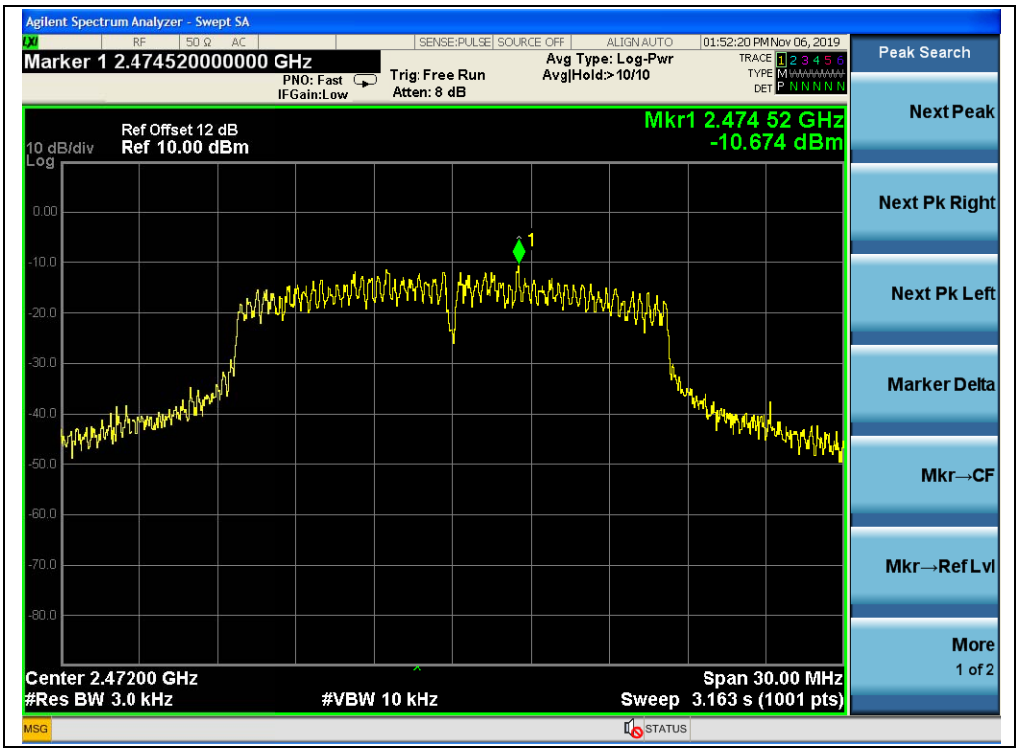
B. Test Plots:



(Channel = 1, 802.11g)



(Channel = 7, 802.11g)



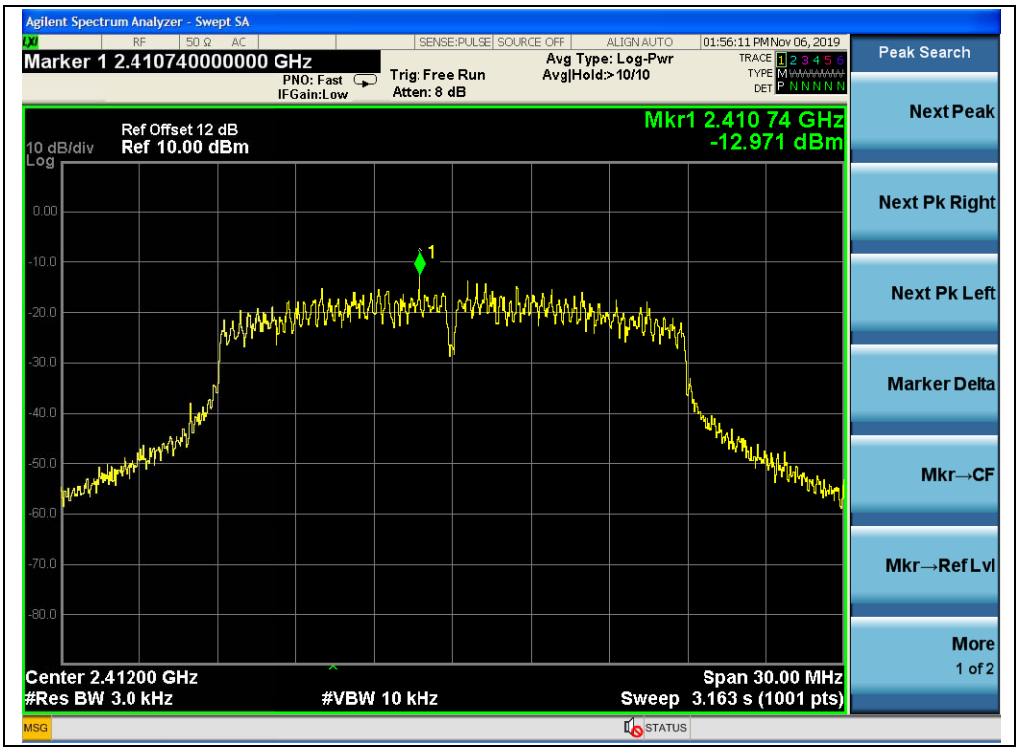
(Channel = 13, 802.11g)

802.11n (HT20) Test mode

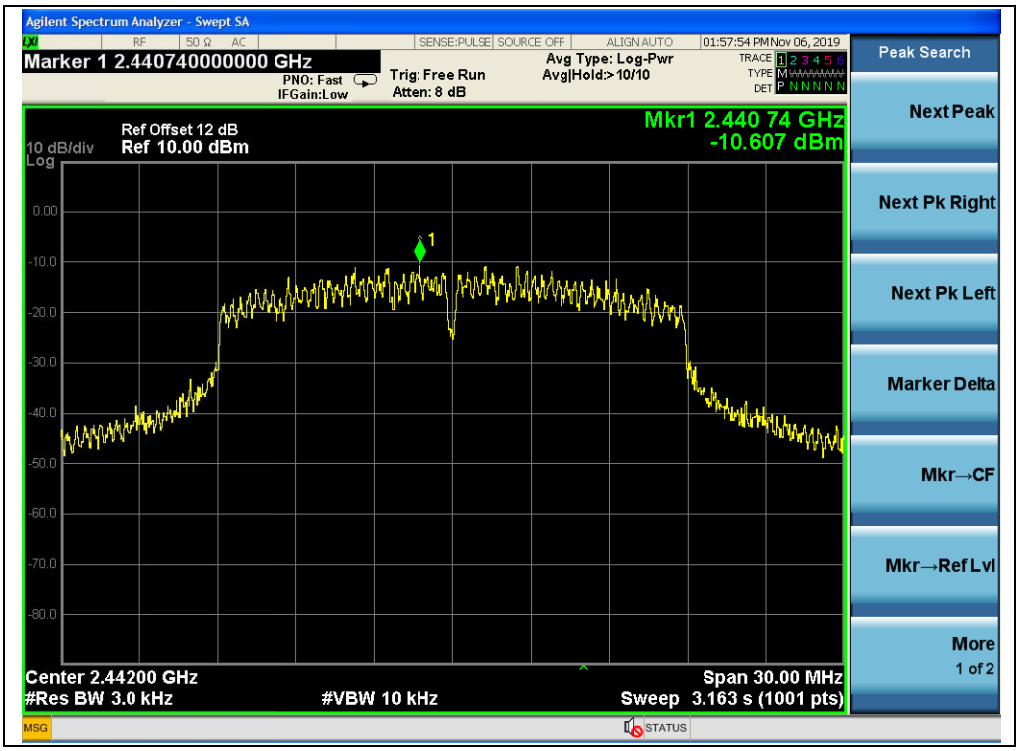
A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-12.97	8	PASS
7	2442	-10.61	8	PASS
13	2472	-10.70	8	PASS

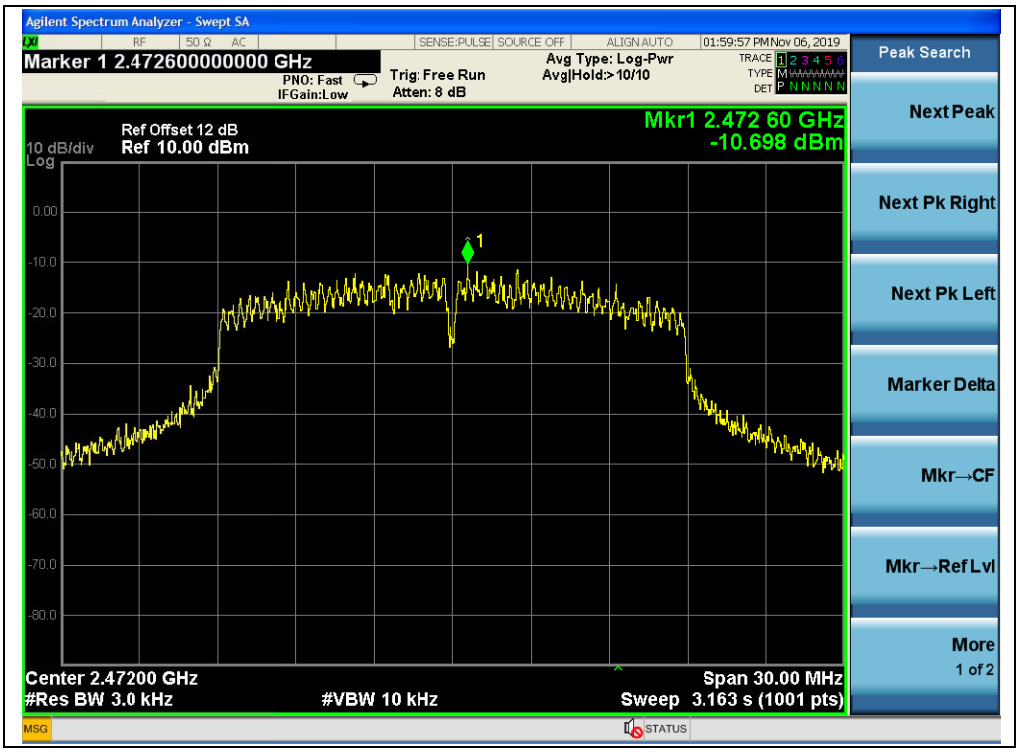
B. Test Plots:



(Channel = 1, 802.11n(HT20))



(Channel = 7, 802.11n(HT20))



(Channel = 13, 802.11n(HT20))

2.7. Conducted Emission

2.7.1. Requirement

According to FCC section 15.207, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50μH/50Ω line impedance stabilization network (LISN).

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

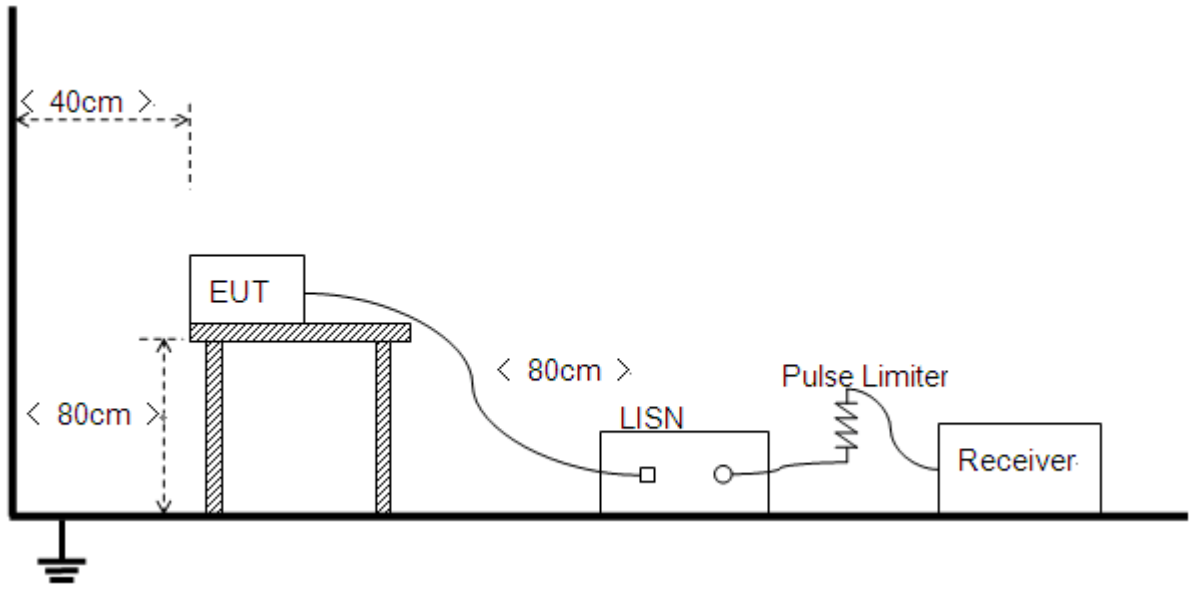
NOTE:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80cm from LISN. The set-up and test methods were according to ANSI C63.10 2013.

2.7.3. Test Result

Note: This test case does not apply this kind of EUT.

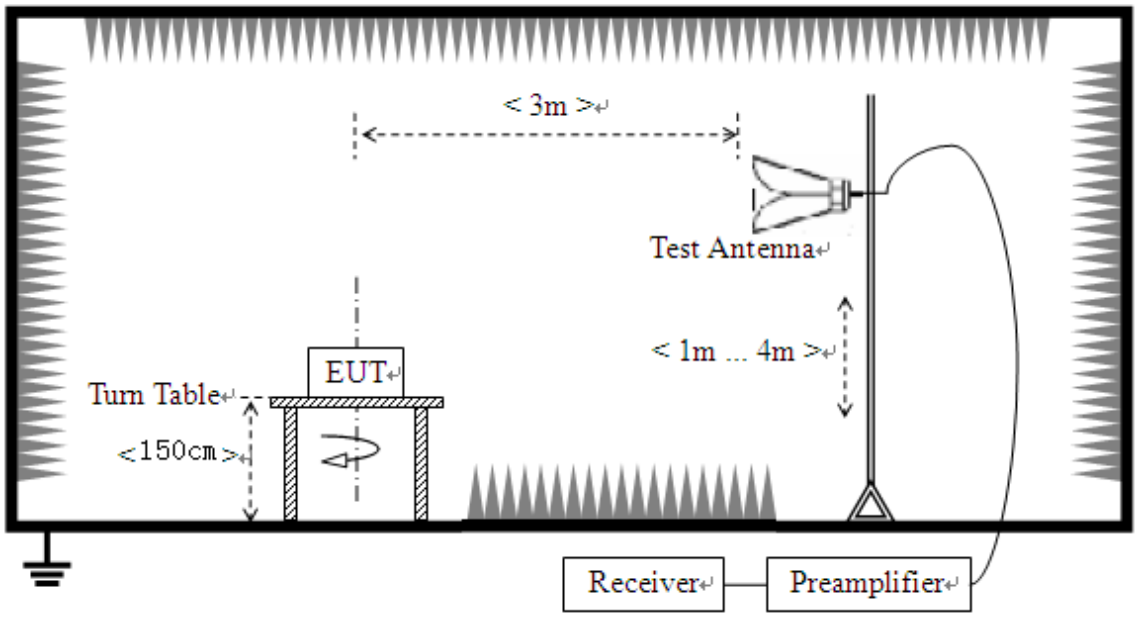
2.8. Restricted Frequency Bands

2.8.1. Requirement

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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).

2.8.2. Test Description

Test Setup



The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:
Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground to determine the maximum value of the field strength.

2.8.3. Test Procedure

KDB 558074 Section 8.6 and 8.7 was used in order to prove compliance.

2.8.4. Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.
The measurement results are obtained as below:
E [dBμV/m] =U_R + A_T + A_{Factor} [dB]; A_T =$L_{Cable\ loss}$ [dB]-G_{preamp} [dB]
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m

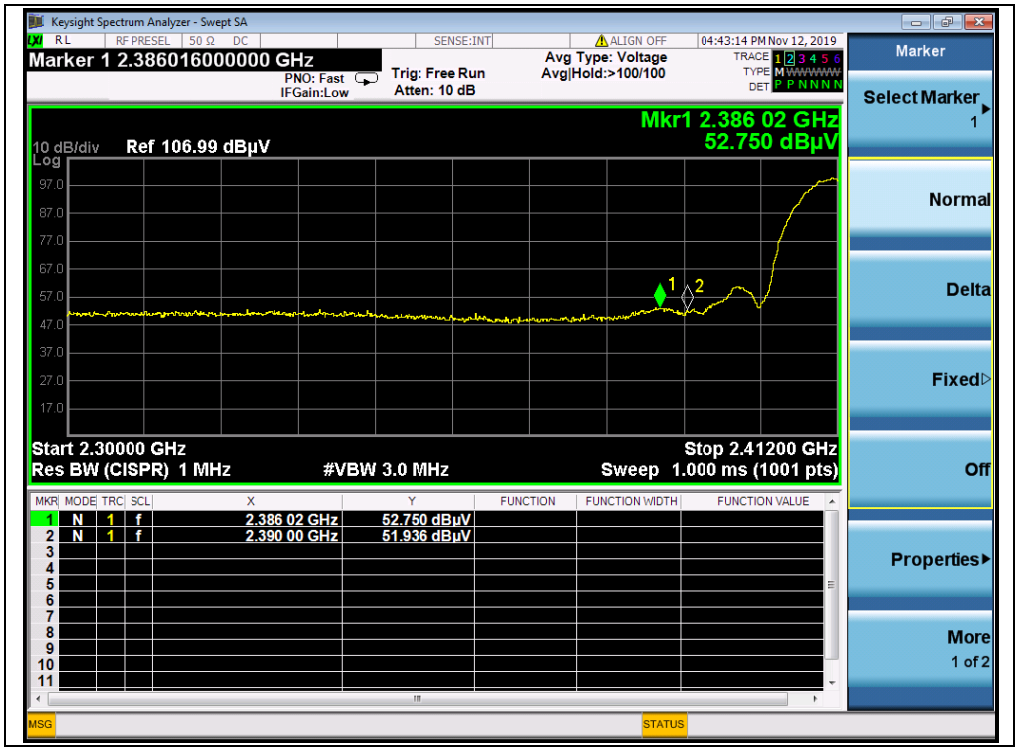
Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

802.11b Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2386.02	PK	52.75	-29.67	32.56	55.64	74	PASS
1	2386.13	AV	41.37	-29.67	32.56	44.26	54	PASS
13	2486.85	PK	55.31	-29.67	32.56	58.20	74	PASS
13	2486.70	AV	47.45	-29.67	32.56	50.34	54	PASS

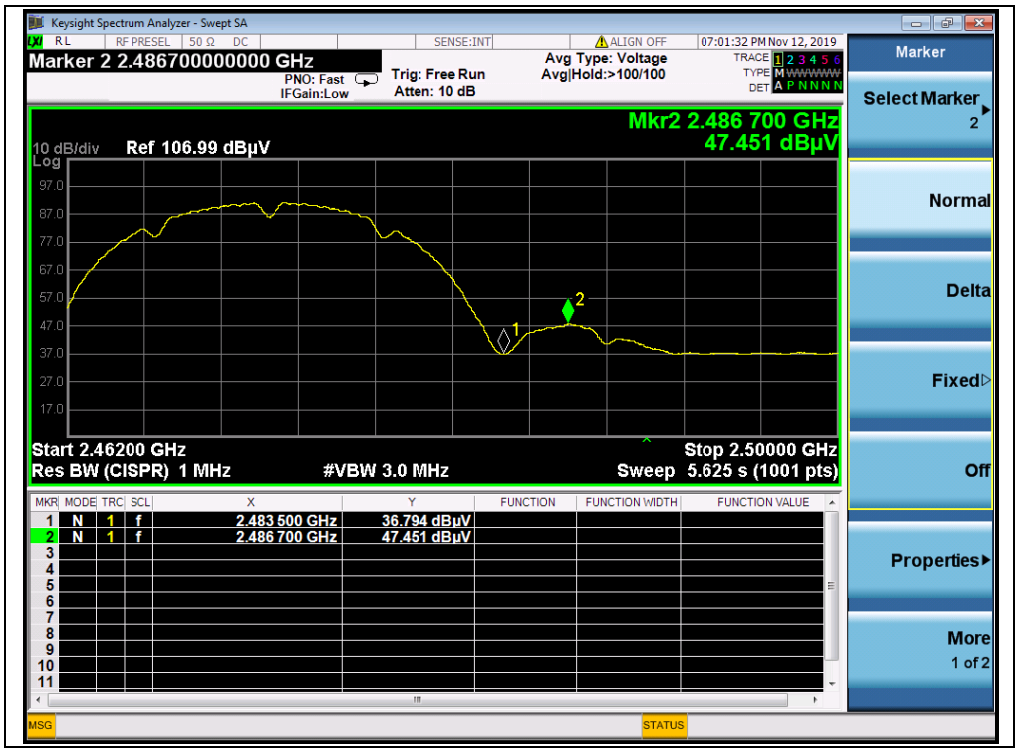
B. Test Plots:



(Channel = 1 PEAK, 802.11b)

(Channel = 1 AVG, 802.11b)

(Channel = 13 PEAK, 802.11b)



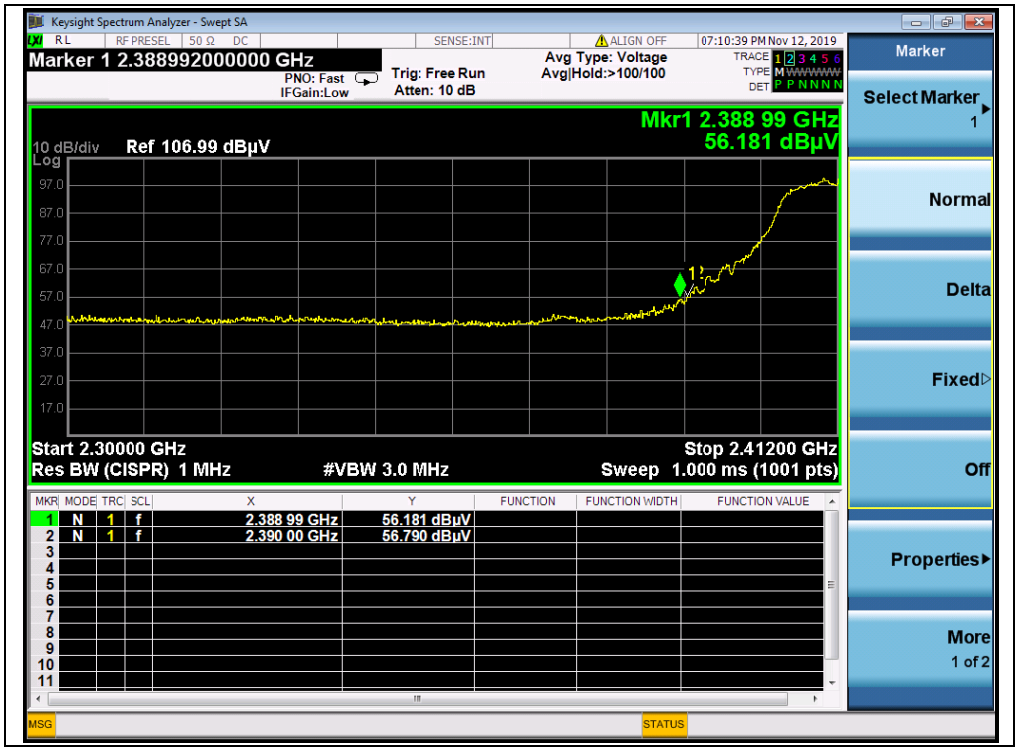
(Channel = 13 AVG, 802.11b)

802.11g Test mode

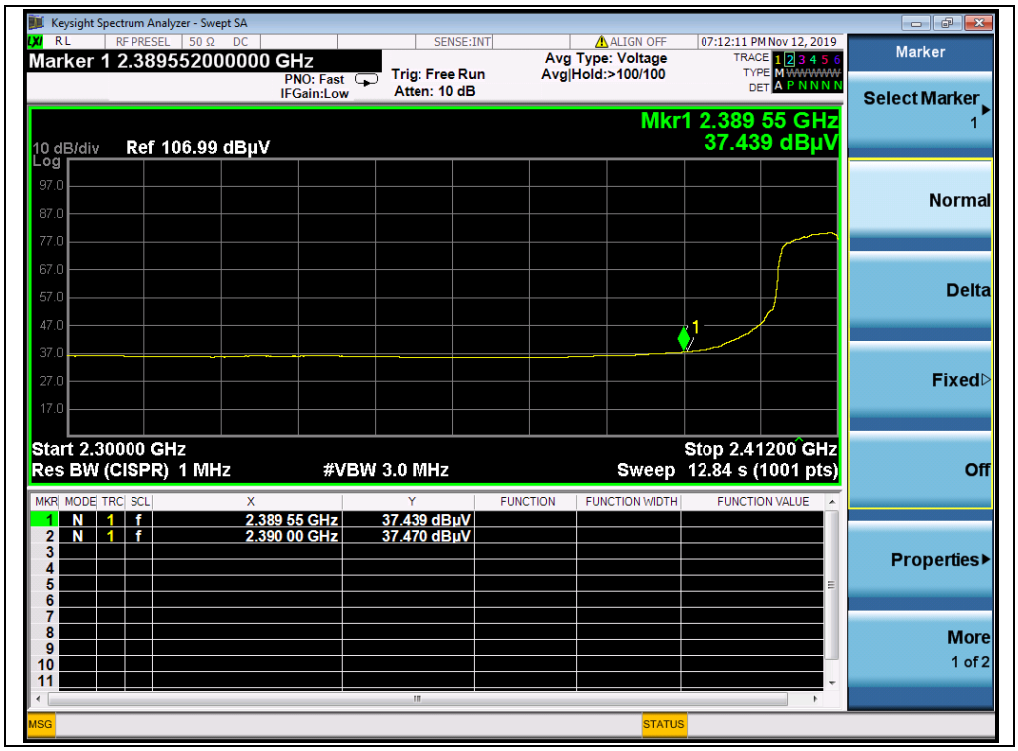
A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2390.00	PK	56.79	-29.67	32.56	59.68	74	PASS
1	2390.00	AV	37.47	-29.67	32.56	40.36	54	PASS
13	2485.94	PK	66.09	-29.67	32.56	68.98	74	PASS
13	2483.50	AV	43.18	-29.67	32.56	46.07	54	PASS

B. Test Plots:

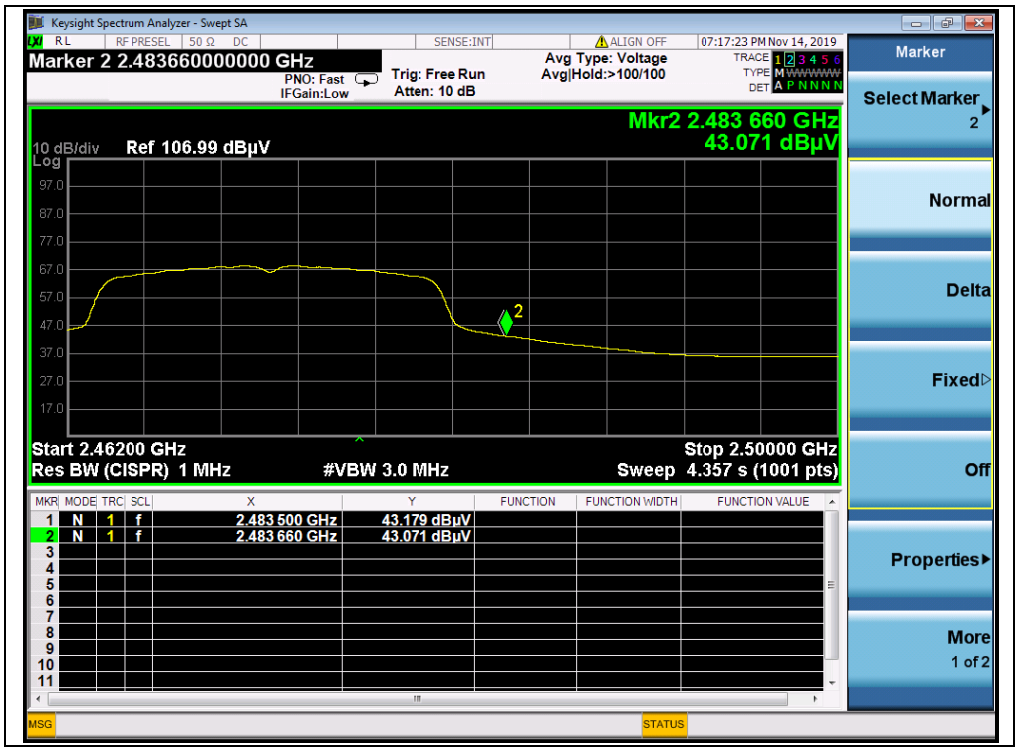


(Channel = 1 PEAK, 802.11g)



(Channel = 1 AVG, 802.11g)

(Channel = 13 PEAK, 802.11g)



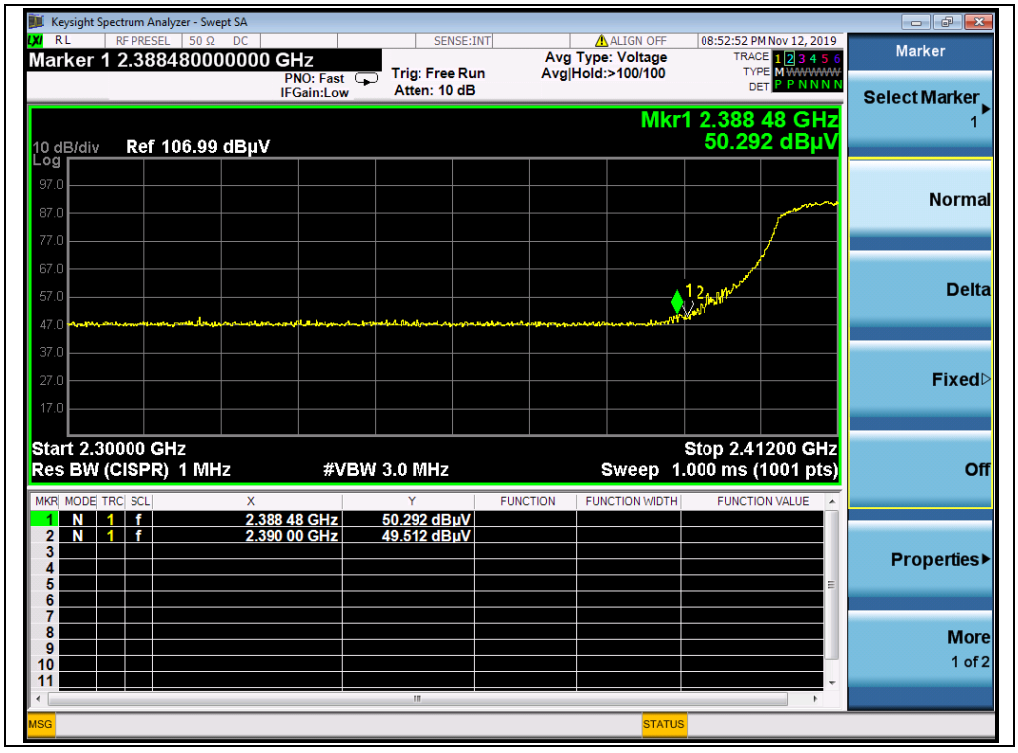
(Channel = 13 AVG, 802.11g)

802.11 n (HT20) Test mode

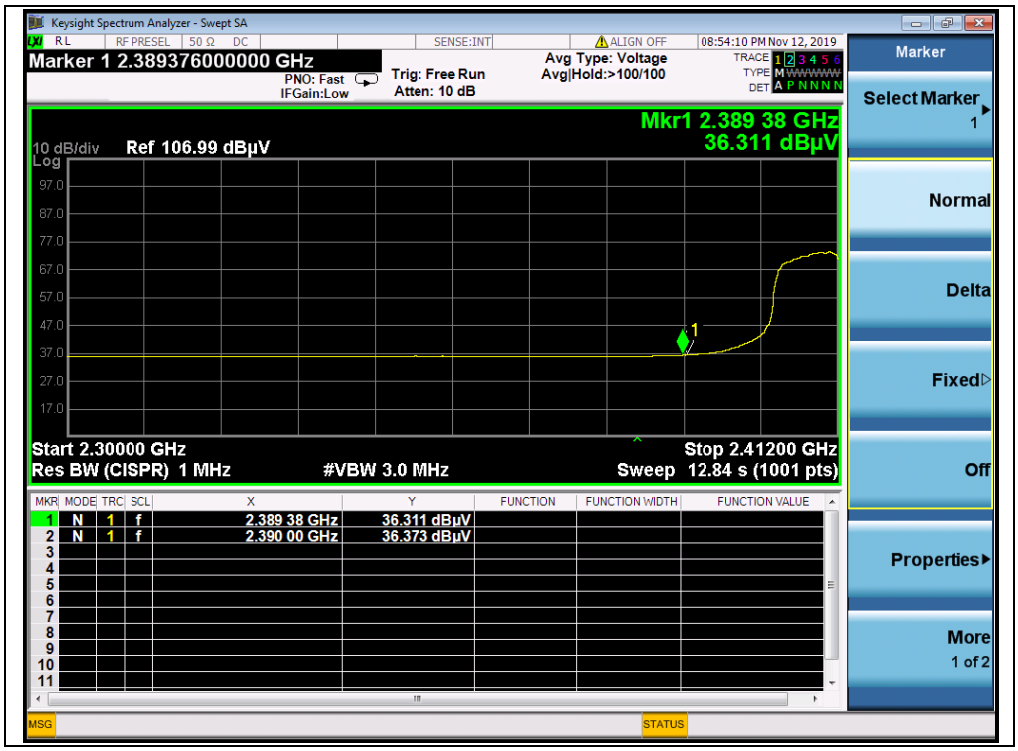
A. Test Verdict:

Channel	Frequency (MHz)	Detector PK/ AV	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
1	2388.48	PK	50.29	-29.67	32.56	53.18	74	PASS
1	2390.00	AV	36.37	-29.67	32.56	39.26	54	PASS
13	2483.81	PK	62.72	-29.67	32.56	65.61	74	PASS
13	2483.50	AV	38.92	-29.67	32.56	41.81	54	PASS

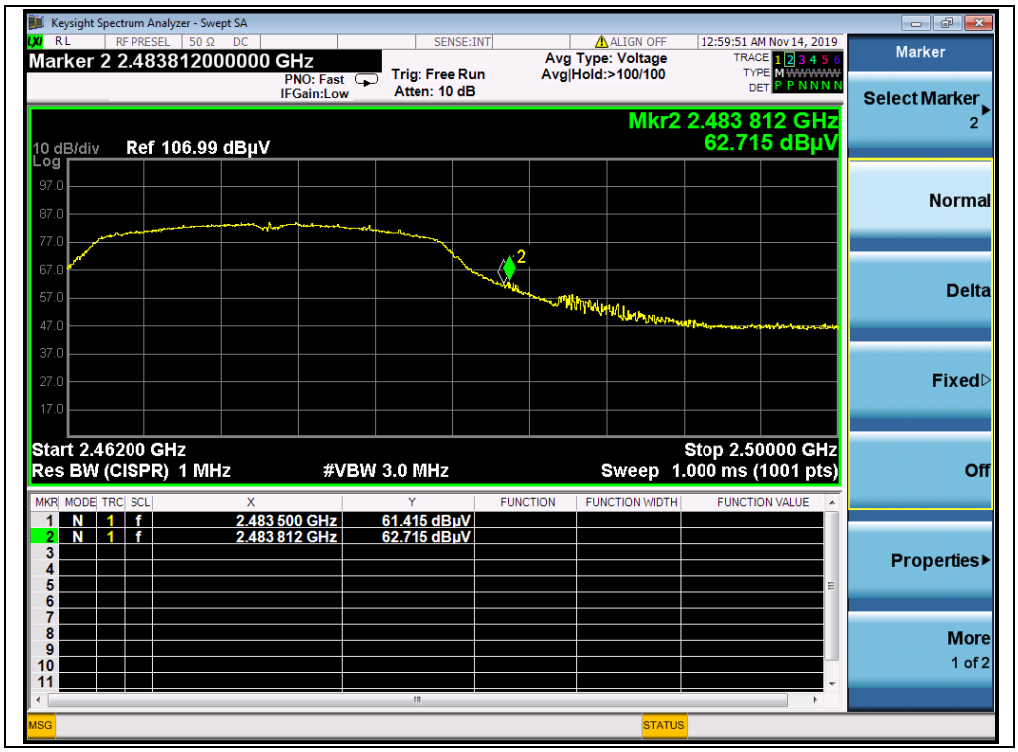
B. Test Plots:



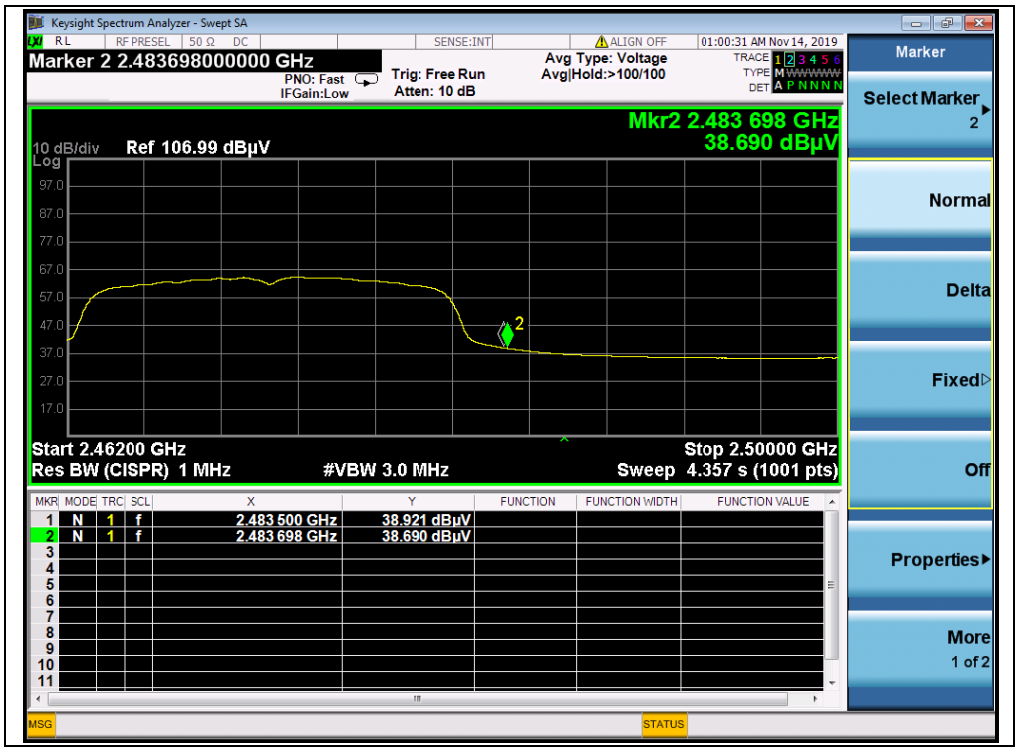
(Channel = 1 PEAK, 802.11n(HT20))



(Channel = 1 AVG, 802.11n(HT20))



(Channel = 13 PEAK, 802.11n(HT20))



(Channel = 13 AVG, 802.11n(HT20))

2.9. Radiated Emission

2.9.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

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

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

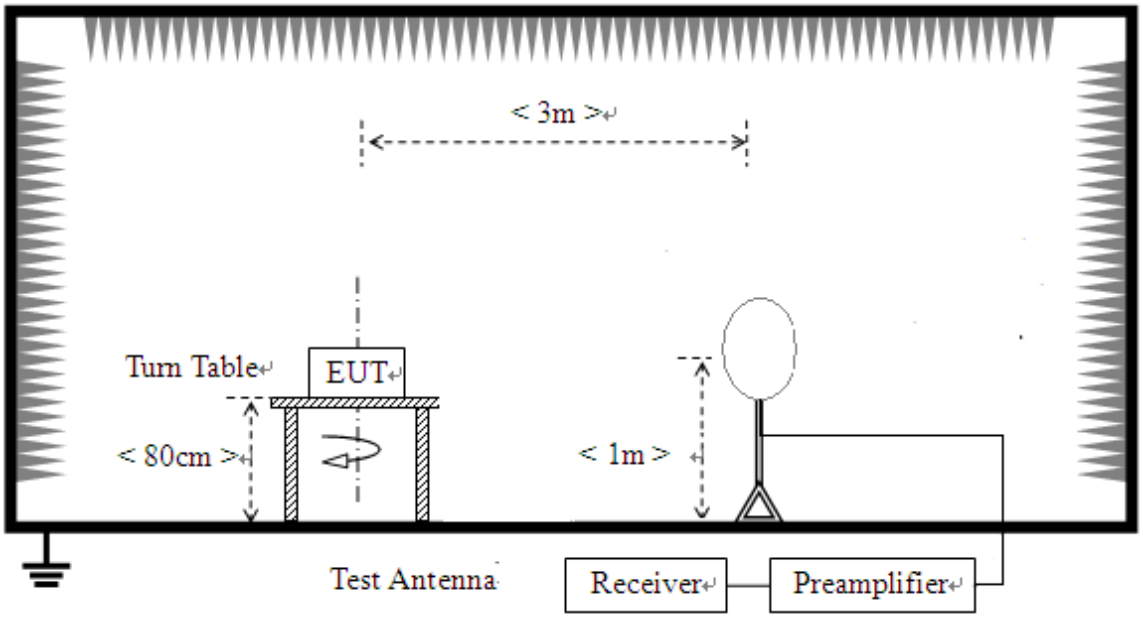
Note1: For above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

Note2: For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

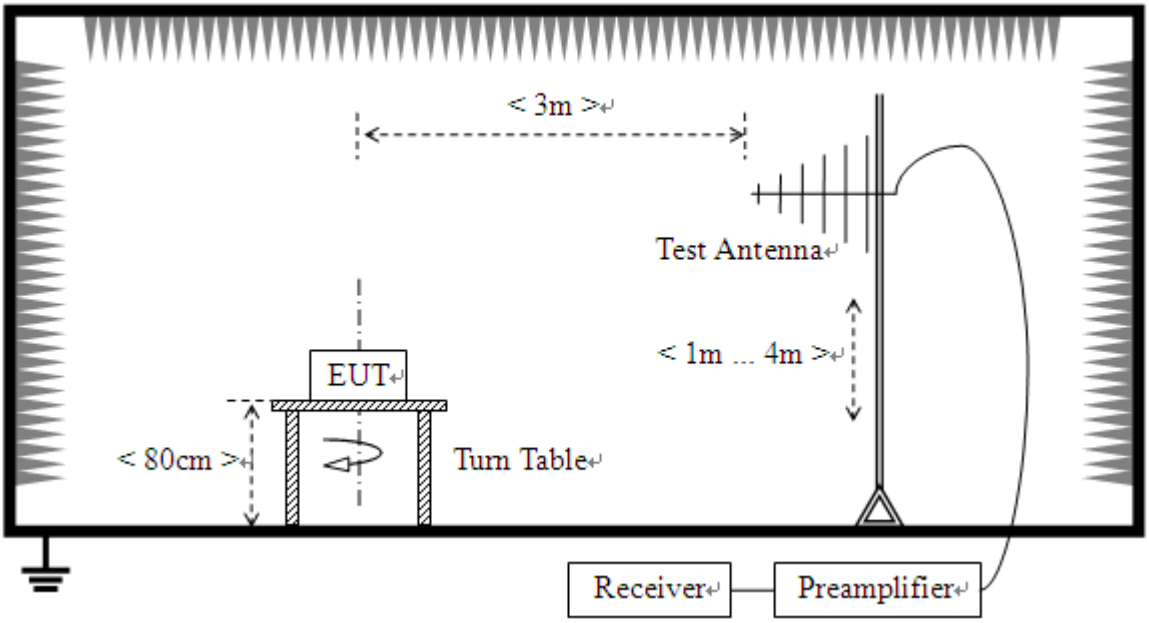
2.9.2. Test Description

Test Setup:

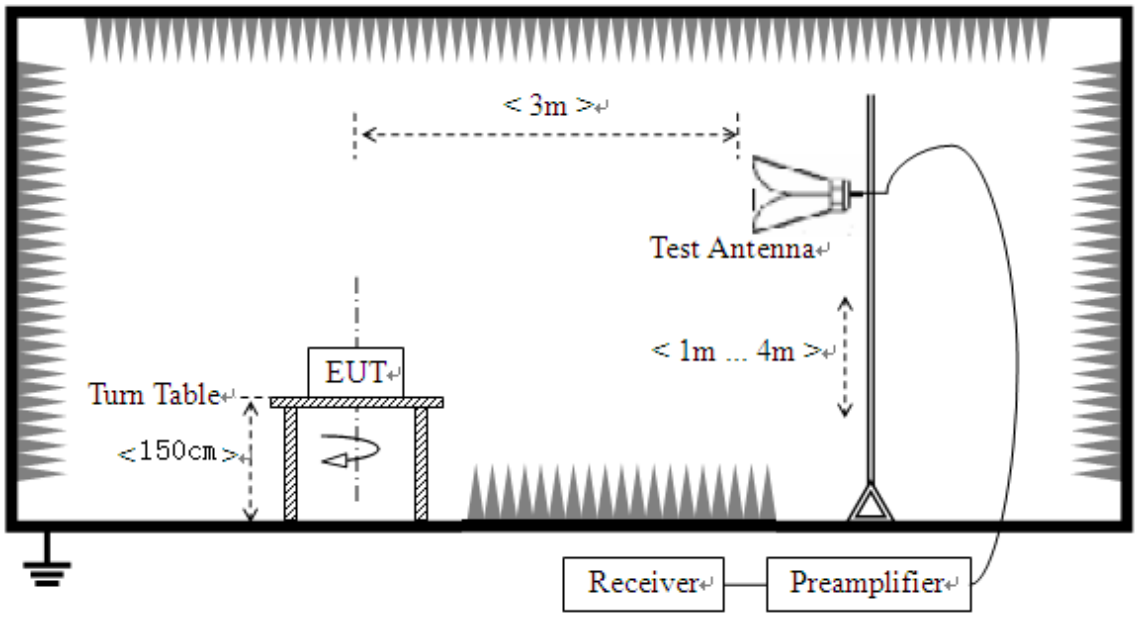
1) For radiated emissions from 9kHz to 30MHz



2) For radiated emissions from 30MHz to1GHz



3) For radiated emissions above 1GHz



The RF absorbing material used on the reference ground plane and on the turntable have a maximum height (thickness) of 30 cm (12 in) and have a minimum-rated attenuation of 20 dB at all frequencies from 1 GHz to 18 GHz. Test site have a minimum area of the ground plane covered with RF absorbing material as specified in Figure 6 of ANSI C63.4: 2014.

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.10 (2013). For radiated emissions below or equal to 1GHz, The EUT was set-up on insulator 80cm above the Ground Plane, For radiated emissions above 1GHz, The EUT was set-up on insulator 150cm above the Ground Plane. The set-up and test methods were according to ANSI C63.10

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
The EUT is located in a 3m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading

For the Test Antenna:

(a) In the frequency range of 9kHz to 30MHz, magnetic field is measured with Loop Test Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
(b) In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Place the test antenna at 3m away from area of the EUT, while keeping the test antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The test antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final test antenna elevation shall be that which maximizes the emissions. The test antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. The emission levels at both horizontal and vertical polarizations should be tested.

2.9.3. Test Result

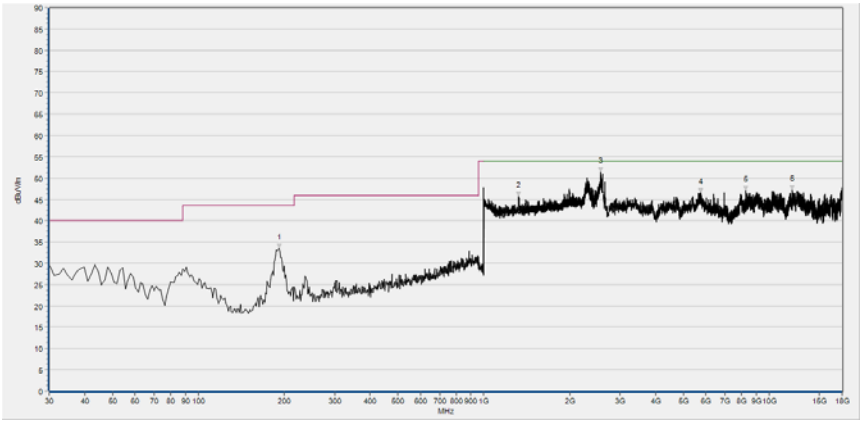
According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak limit, it is unnecessary to perform an quasi-peak measurement.

The measurement results are obtained as below:
$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$
A_T: Total correction Factor except Antenna
U_R: Receiver Reading
G_{preamp}: Preamplifier Gain
A_{Factor}: Antenna Factor at 3m
During the test, the total correction Factor A_T and A_{Factor} were built in test software.

Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.
Note2: For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.
Note3: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

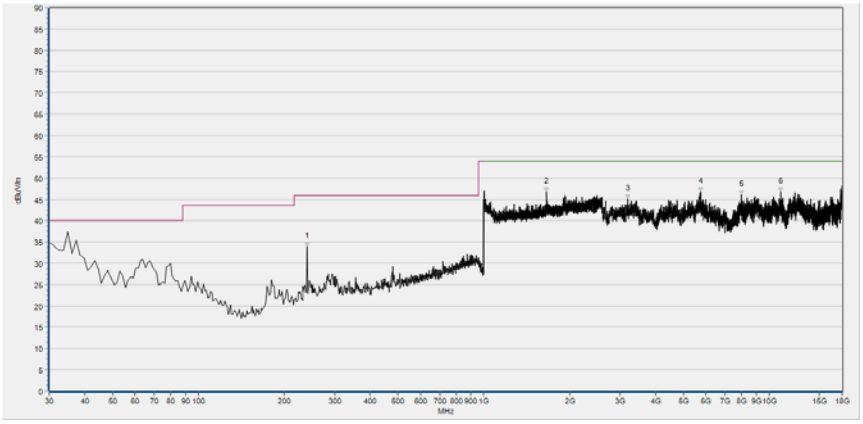
802.11b Test mode

Plots for Channel = 1



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
191.464	33.48	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1325.890	45.72	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2573.400	51.38	N/A	38.22	74.00	N/A	54.00	Horizontal	PASS
5764.575	46.53	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8282.233	47.04	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12054.519	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

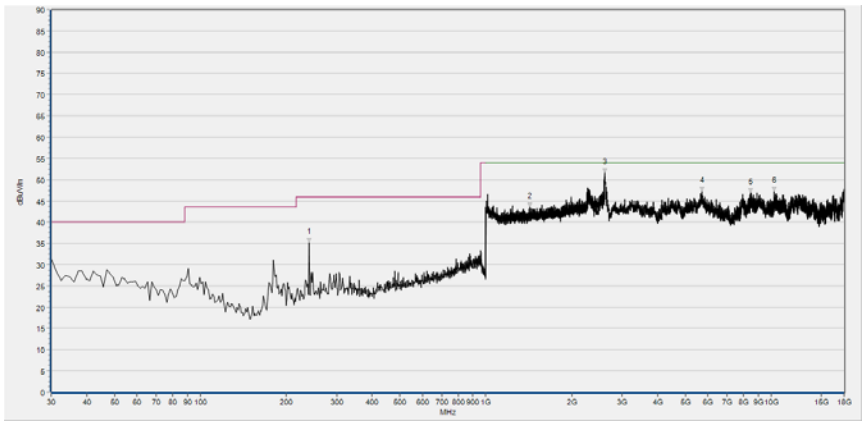
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	33.92	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
1660.104	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
3190.907	45.16	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5756.174	46.73	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
7985.379	46.10	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
10995.927	46.84	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

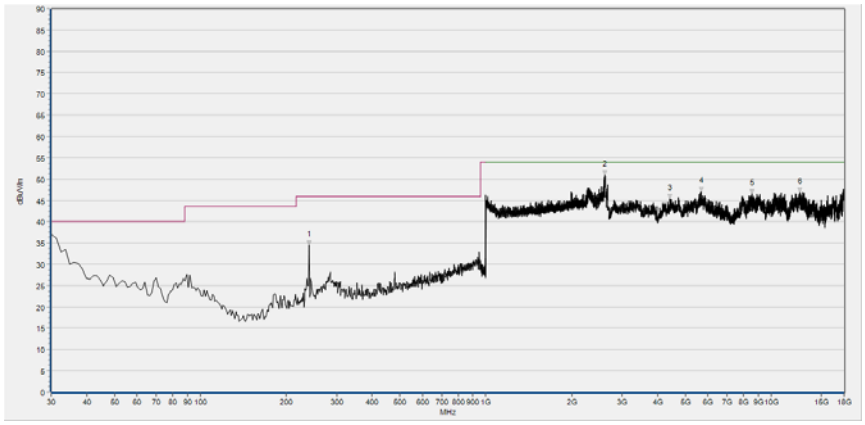
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 7



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	35.16	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1425.130	43.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2608.300	52.16	N/A	35.62	74.00	N/A	54.00	Horizontal	PASS
5711.366	47.30	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8483.870	46.88	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10256.592	47.27	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

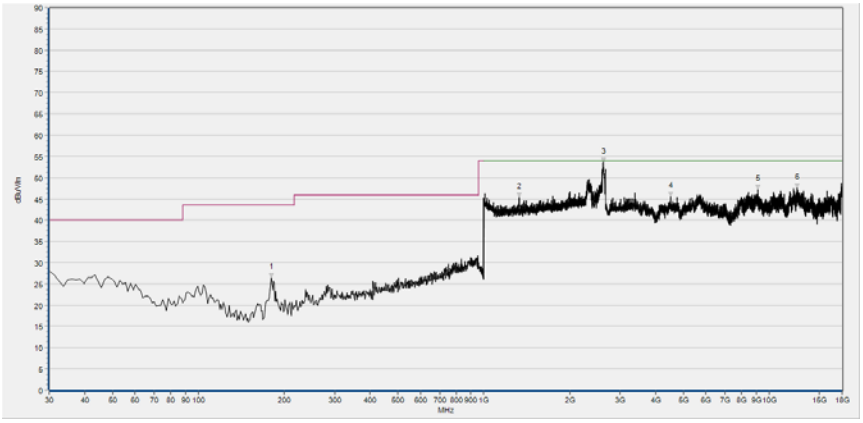
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	34.52	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2617.900	52.76	N/A	35.87	74.00	N/A	54.00	Vertical	PASS
4420.331	45.41	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5683.361	47.15	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8567.885	46.66	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12617.421	46.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

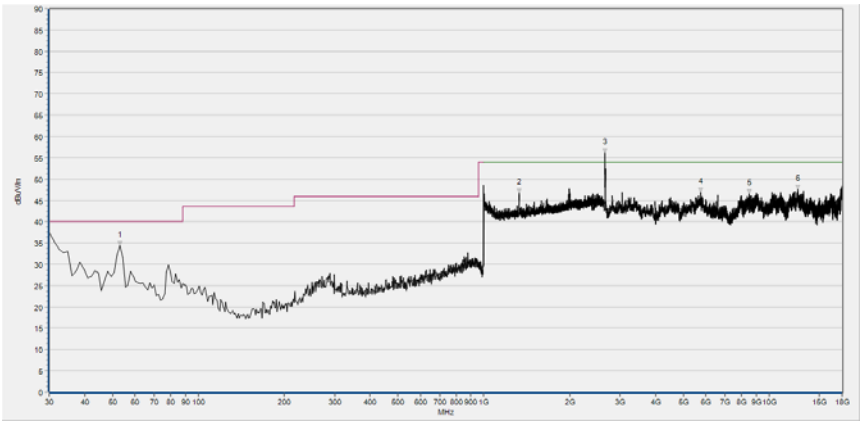
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 13



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
180.538	26.56	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1332.933	45.44	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2619.800	55.56	N/A	42.81	74.00	N/A	54.00	Horizontal	PASS
4509.947	45.64	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9133.588	47.33	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12519.404	47.65	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

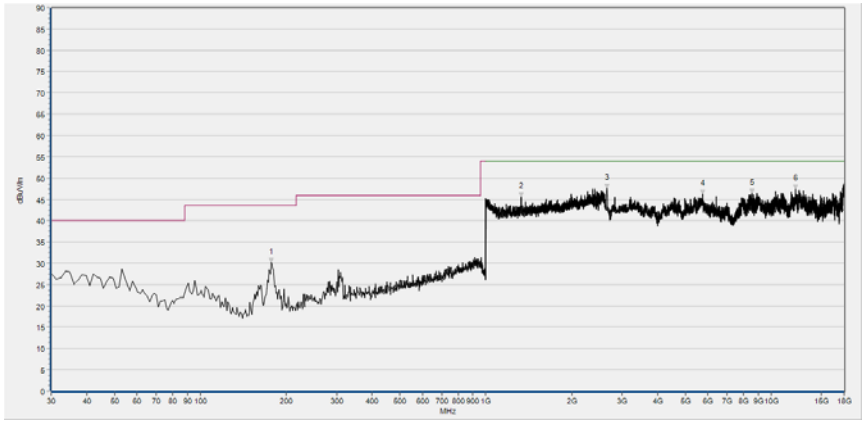


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.066	34.41	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
1331.012	46.69	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2658.300	56.49	N/A	33.89	74.00	N/A	54.00	Vertical	PASS
5747.772	46.93	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8489.471	46.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12623.022	47.60	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

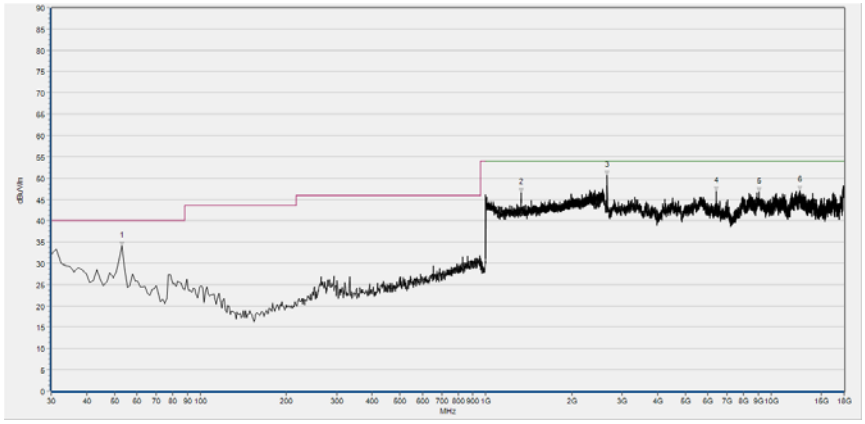
802.11g Test mode

Plots for Channel = 1



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
176.896	30.09	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1331.012	45.52	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2661.611	47.58	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5756.174	46.23	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8565.085	46.50	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12183.342	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

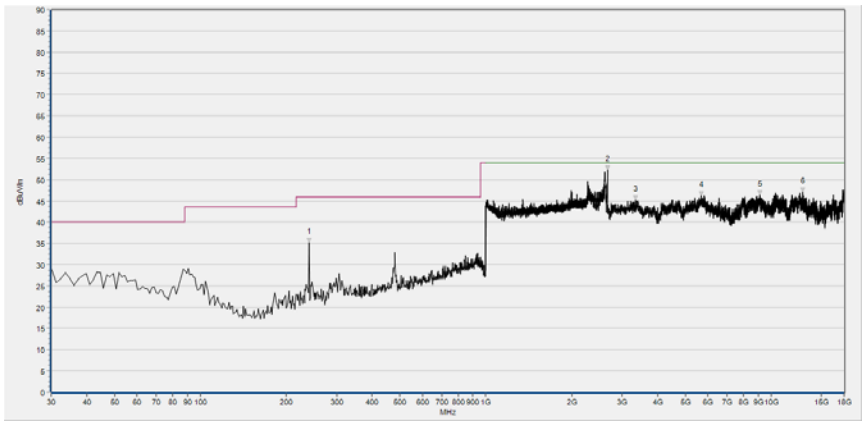
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.066	34.03	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
1327.811	46.65	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2661.611	50.62	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
6431.097	47.00	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9063.575	46.79	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12611.820	47.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

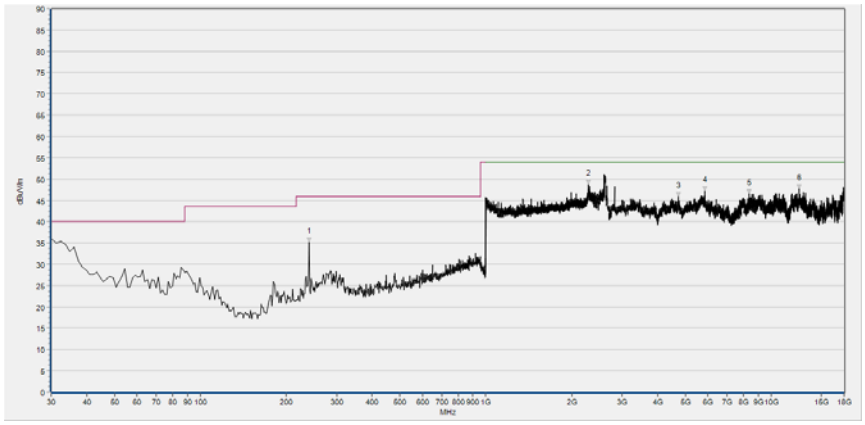
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 7



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	35.15	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
2663.300	52.87	N/A	32.48	74.00	N/A	54.00	Horizontal	PASS
3350.536	45.28	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5694.563	46.20	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9133.588	46.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12872.268	47.03	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

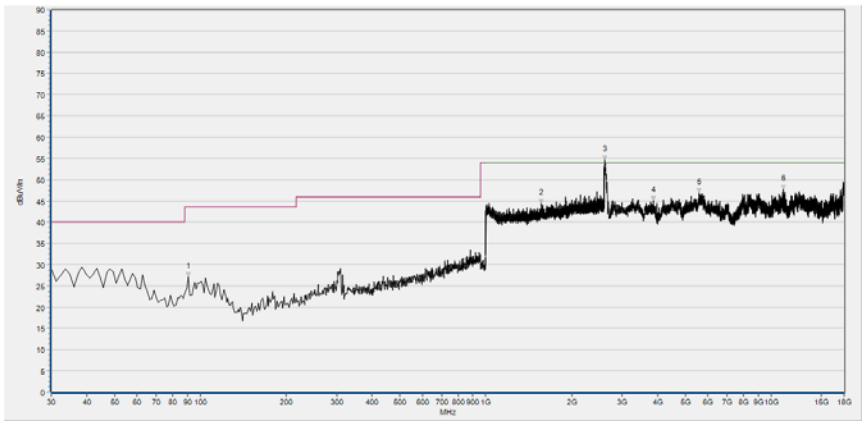
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	35.14	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2290.756	48.82	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
4728.387	45.96	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5842.990	47.23	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8369.049	46.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12513.803	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

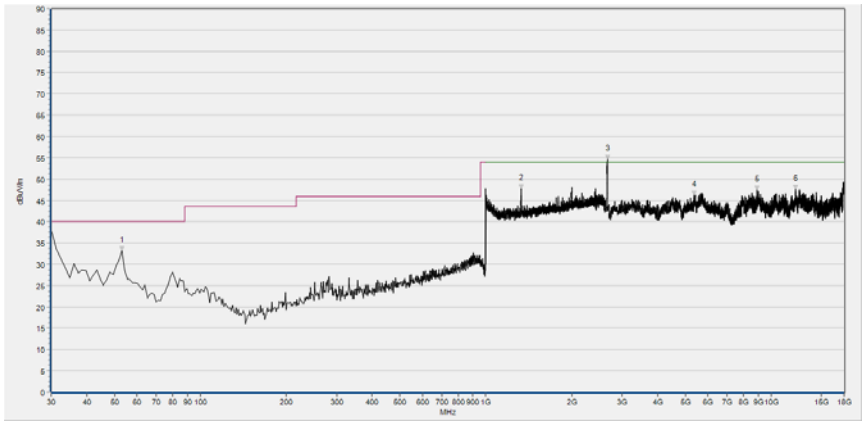
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 13



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
90.701	27.08	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1566.627	44.36	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2614.800	54.60	N/A	37.88	74.00	N/A	54.00	Horizontal	PASS
3871.431	45.08	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
5585.343	46.95	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10998.727	47.79	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)

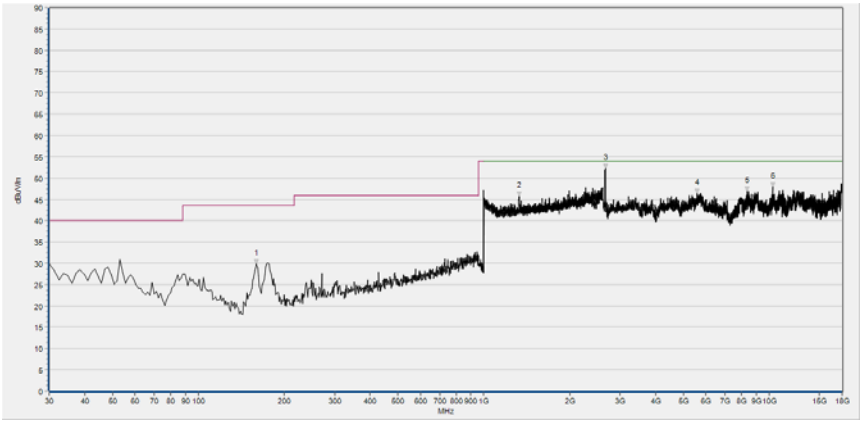


Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.066	33.21	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
1329.732	47.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2657.900	54.58	N/A	33.80	74.00	N/A	54.00	Vertical	PASS
5378.105	46.27	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8931.951	47.43	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12194.544	47.53	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

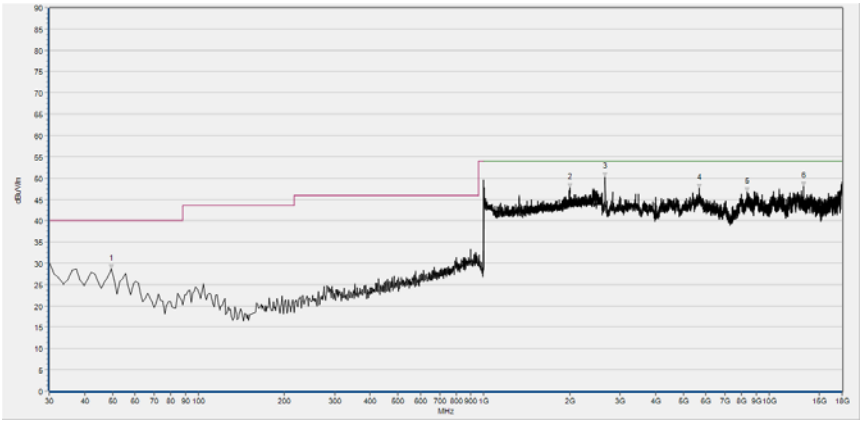
802.11n (HT20) Test mode

Plots for Channel = 1



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
159.900	29.87	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1327.811	45.73	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2658.000	53.75	N/A	33.12	74.00	N/A	54.00	Horizontal	PASS
5596.545	46.46	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8383.051	46.85	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
10264.994	47.92	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

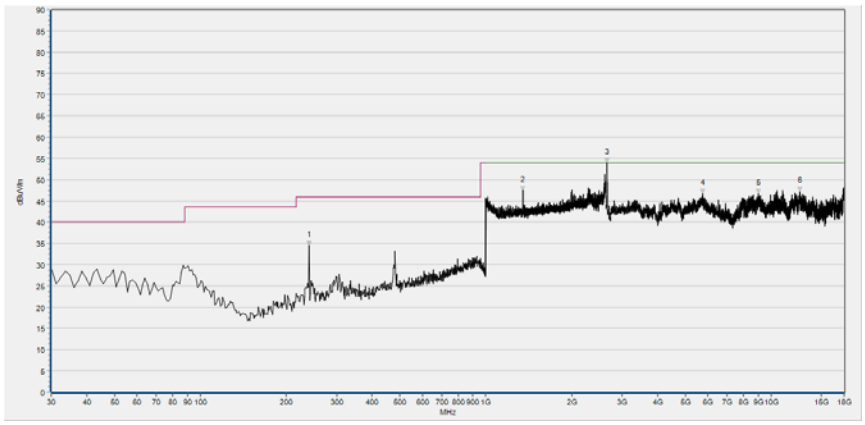
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
49.424	28.63	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
2000.080	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2658.811	50.29	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
5691.762	47.63	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8363.448	46.70	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
13177.523	48.18	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

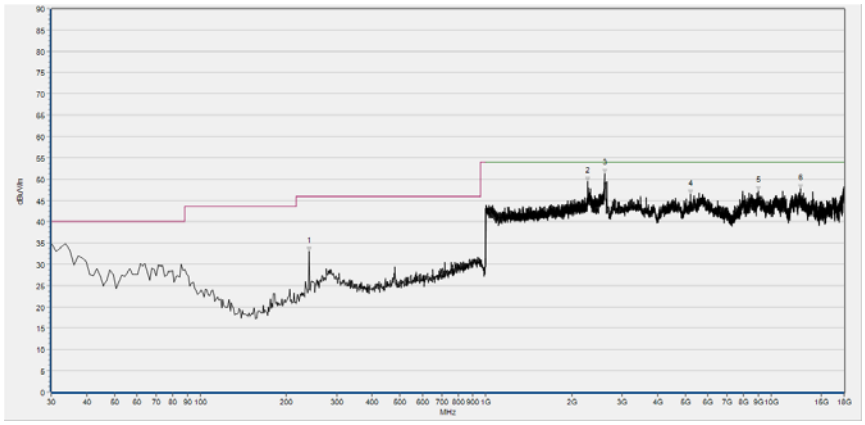
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 7



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	34.53	N/A	N/A	N/A	46.00	N/A	Horizontal	PASS
1349.580	47.37	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2657.100	53.93	N/A	33.13	74.00	N/A	54.00	Horizontal	PASS
5753.373	46.81	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
9018.767	46.76	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12597.818	47.26	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

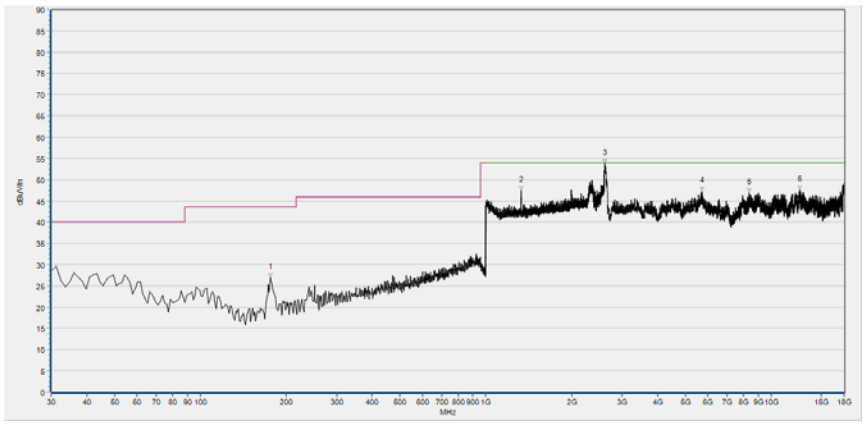
(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
240.025	32.94	N/A	N/A	N/A	46.00	N/A	Vertical	PASS
2277.951	49.52	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2602.100	51.12	N/A	34.81	74.00	N/A	54.00	Vertical	PASS
5207.274	46.46	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
9027.169	47.32	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12628.623	47.77	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

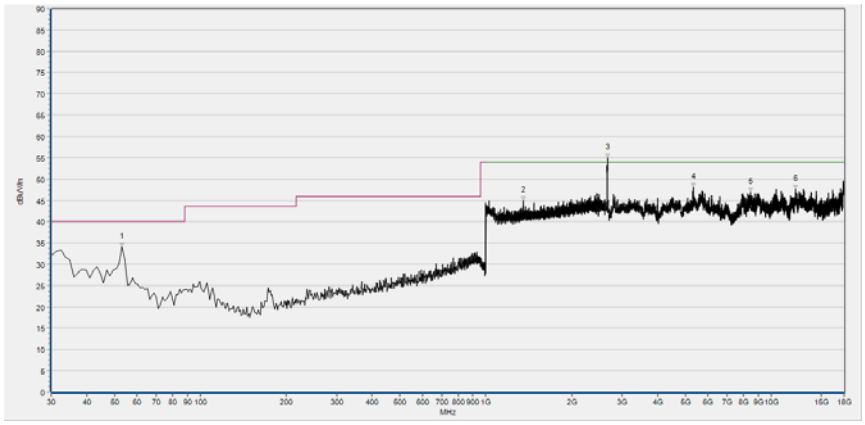
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel = 13



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
175.682	26.93	N/A	N/A	N/A	43.50	N/A	Horizontal	PASS
1330.372	47.43	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
2614.900	53.73	N/A	37.53	74.00	N/A	54.00	Horizontal	PASS
5714.166	47.19	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
8355.046	46.86	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS
12617.421	47.62	N/A	N/A	74.00	N/A	54.00	Horizontal	PASS

(Antenna Horizontal, 30MHz to 18GHz)



Fre. (MHz)	Pk (dBμV/m)	QP (dBμV/m)	AV (dBμV/m)	Limit-PK (dBμV/m)	Limit-QP (dBμV/m)	Limit-AV (dBμV/m)	Antenna	Verdict
53.066	33.94	N/A	N/A	N/A	40.00	N/A	Vertical	PASS
1354.062	44.89	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
2660.500	54.95	N/A	32.93	74.00	N/A	54.00	Vertical	PASS
5330.496	48.09	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
8439.062	46.86	N/A	N/A	74.00	N/A	54.00	Vertical	PASS
12186.143	47.57	N/A	N/A	74.00	N/A	54.00	Vertical	PASS

(Antenna Vertical, 30MHz to 18GHz)

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Peak Output Power	±2.22dB
Power spectral density (PSD)	±2.22dB
Bandwidth	±5%
Conducted Spurious Emission	±2.77dB
Restricted Frequency Bands	±5%
Radiated Emission	±2.95dB
Conducted Emission	±2.44dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Attenuator 1	(N/A.)	10dB	Resent	N/A	N/A
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2019.04.09	2020.04.08
USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2019.04.16	2020.04.15
RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial cable	CB02	RF02	Morlab	N/A	N/A
SMA connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
Computer	T430i	Think Pad	Lenovo	N/A	N/A

4.2 List of Software Used

Description	Manufacturer	Software Version
Test system	Townsend	V2.6
Power Panel	Agilent	V3.8
MORLAB EMCR V1.2	MORLAB	V1.0

4.4 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Receiver	MY54130016	N9038A	Agilent	2019.07.26	2020.07.25
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2019.05.08	2020.05.09
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2019.02.15	2020.02.14
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2019.07.26	2020.07.25
Test Antenna – Horn	BBHA9170 #774	BBHA9170	Schwarzbeck	2019.07.26	2020.07.25
Coaxial cable (N male) (9KHz-30MHz)	CB04	EMC04	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
Coaxial cable (N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A
1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.09
18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2019.05.08	2020.05.09
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	2018.12.01	2019.11.30
Anechoic Chamber	N/A	9m*6m*6m	CRT	2017.11.19	2020.11.18

END OF REPORT