



REPORT No.: SZ16080140W01

FCC RF TEST REPORT

APPLICANT : Testo SE & Co. KGaA

PRODUCT NAME : WLAN data logger

MODEL NAME : 0572 2620 / 0572 2621 / 0572 2622 / 0572 2623

TRADE NAME : Testo

BRAND NAME : Testo

FCC ID : WAF-0572262X

STANDARD(S) : 47 CFR Part 15 Subpart C

ISSUE DATE : 2016-11-21



SHENZHEN MORLAB COMMUNICATIONS TECHNOLOGY Co., Ltd.

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MORLAB GROUP

FL1-3, Building A, FeiYang Science Park, No.8 LongChang Road,
Block67, BaoAn District, ShenZhen , GuangDong Province, P. R. China

Tel: 86-755-36698555
Http://www.morlab.com

Fax: 86-755-36698525
E-mail: service@morlab.cn



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Change History		
Issue	Date	Reason for change
1.0	2016-11-21	First edition



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TEST REPORT DECLARATION

Applicant	Testo SE & Co. KGaA
Applicant Address	Testo-Str.1, 79853 Lenzkirch, Germany
Manufacturer Address	testo Instruments (Shenzhen) Co., Ltd
Manufacturer	Block A, B4 Building, China Merchants Guangming Sci&Tech Park, No.3009 Guan Guang Road, Guangming New District, Shenzhen City
Product Name	WLAN data logger
Model Name	0572 2620 / 0572 2621 / 0572 2622 / 0572 2623
Brand Name	Testo
HW Version	1.0
SW Version	1.0
Test Standards	47 CFR Part 15 Subpart C
Test Date	2016-11-07 to 2016-11-15
Test Result	PASS

Tested by : Li Jingzong
Li Jingzong

Reviewed by : Qiu Xiaojun
Qiu Xiaojun

Approved by : Peng Huarui
Peng Huarui



1. TECHNICAL INFORMATION

Note: Provide by applicant.

1.1 Applicant Information

Company:	Testo SE & Co. KGaA
Address	Testo-Str.1, 79853 Lenzkirch, Germany

1.2 Equipment under Test (EUT) Description

Brand Name:	Testo
Trade Name:	Testo
Model Name:	0572 2620 / 0572 2621 / 0572 2622 / 0572 2623
Frequency Range:	802.11b/g/n-20MHz: 2.412GHz - 2.462GHz
Channel Number:	802.11b/g/n-20MHz: 11
Modulation Type:	DSSS, OFDM
Antenna Type:	Copper tube antenna
Antenna Gain:	2 dBi

NOTE:

1. The EUT is WLAN data logger, it's operating at 2.4GHz ISM; it supports 802.11b, 802.11g, 802.11n and they are all tested in this report.
For 802.11b/g/n-20MHz (2.4GHz band), the frequencies allocated is $F \text{ (MHz)} = 2412 + 5 \cdot (n-1)$ ($1 \leq n \leq 11$). The lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz).
2. The EUT connected to the serial port of the computer with a serial communication cable, we use the dedicated software to control the EUT continuous transmission.
3. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.2.1 Identification of all used EUTs

The EUT identity consists of numerical and letter characters, the letter character indicates the test sample, and the following two numerical characters indicate the software version of the test sample.

EUT Identity	Hardware Version	Software Version
A01	1.0	1.0



1.3 Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C (Bluetooth, 2.4GHz ISM band radiators) for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 15 (10-1-15 Edition)	Radio Frequency Devices

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

No.	Section	Description	Test Date	Result
1	15.203	Antenna Requirement	N.A	<u>PASS</u>
2	15.247(b)	Peak Output Power	Nov 10, 2016	<u>PASS</u>
3	15.247(a)	Bandwidth	Nov 10, 2016	<u>PASS</u>
4	15.247(d)	Conducted Spurious Emission and Band Edge	Nov 10, 2016	<u>PASS</u>
5	15.247(d)	Restricted Frequency Bands	Nov 13, 2016	<u>PASS</u>
6	15.207	Conducted Emission	N.A	<u>N.A</u> Note
7	15.209 ,15.247(d)	Radiated Emission	Nov 13, 2016	<u>PASS</u>
8	15.247(e)	Power spectral density (PSD)	Nov 10, 2016	<u>PASS</u>

Note: 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.

The tests of Conducted Emission and Radiated Emission were performed according to the method of measurements prescribed in ANSI C63.10 2013.

1.3.1 Test Environment 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. 47 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 Peak Output Power

2.2.1 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 exceed 1 Watt.

2.2.2 Test Description

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

A. 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, all test result in power meter.

B. Equipments List:

Please reference ANNEX A(1.5).



2.2.3 Test Result

The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the EUT.

2.2.3.1 802.11b Test Mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	11.75	0.0150	30	1	PASS
6	2437	14.35	0.0272			PASS
11	2462	12.52	0.0179			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	9.18	0.0083	30	1	PASS
6	2437	10.51	0.0112			PASS
11	2462	9.22	0.0084			PASS

2.2.3.2 802.11g Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	17.53	0.0566	30	1	PASS
6	2437	17.37	0.0546			PASS
11	2462	16.99	0.0500			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	7.64	0.0058	30	1	PASS
6	2437	8.91	0.0078			PASS
11	2462	8.12	0.0065			PASS



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2.2.3.3 802.11n-20MHz Test mode

Channel	Frequency (MHz)	Measured Output Peak Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	16.84	0.0483	30	1	PASS
6	2437	17.29	0.0536			PASS
11	2462	16.93	0.0493			PASS

Channel	Frequency (MHz)	Measured Output Average Power		Limit		Verdict
		dBm	W	dBm	W	
1	2412	7.33	0.0054	30	1	PASS
6	2437	8.33	0.0068			PASS
11	2462	7.06	0.0051			PASS



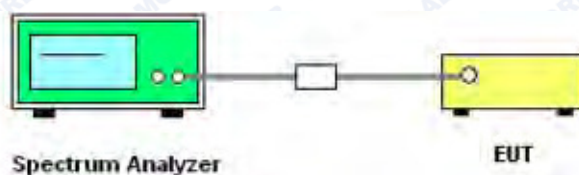
2.3 Bandwidth

2.3.1 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.

2.3.2 Test Description

A. Test Set:



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.

KDB 558074 Section 8.1 Option 1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.5).

2.3.3 Test Result

The lowest, middle and highest channels are selected to perform testing to record the 6 dB bandwidth of the EUT.



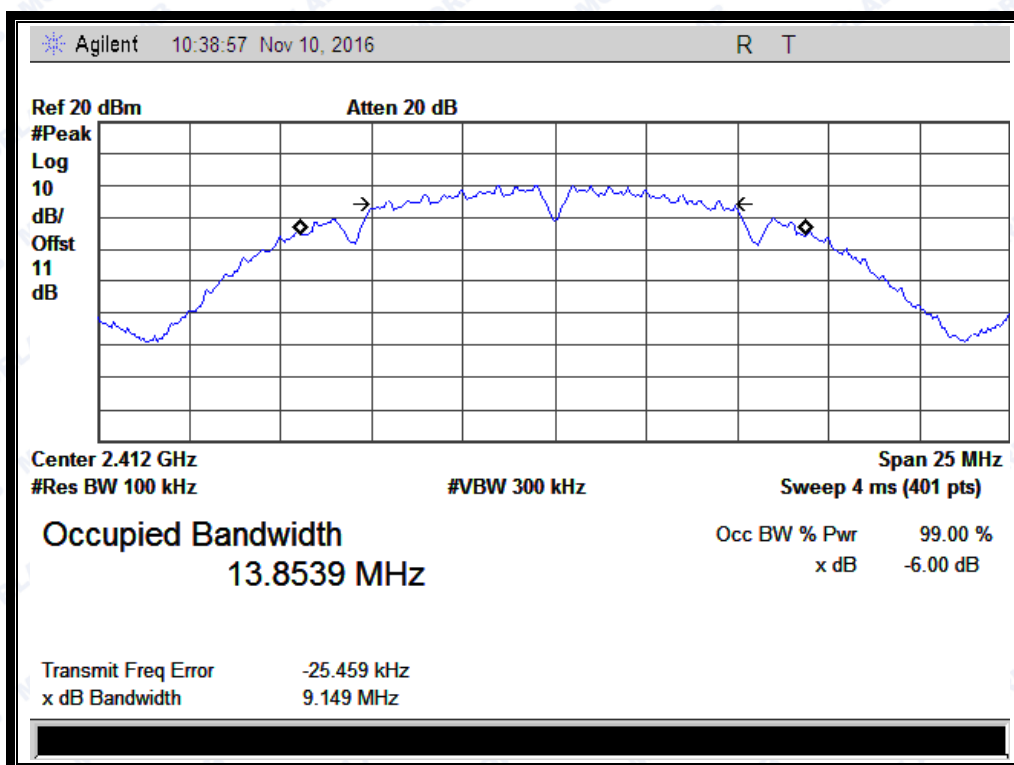
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2.3.3.1 802.11b Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	9.149	≥500	PASS
6	2437	9.140	≥500	PASS
11	2462	9.151	≥500	PASS

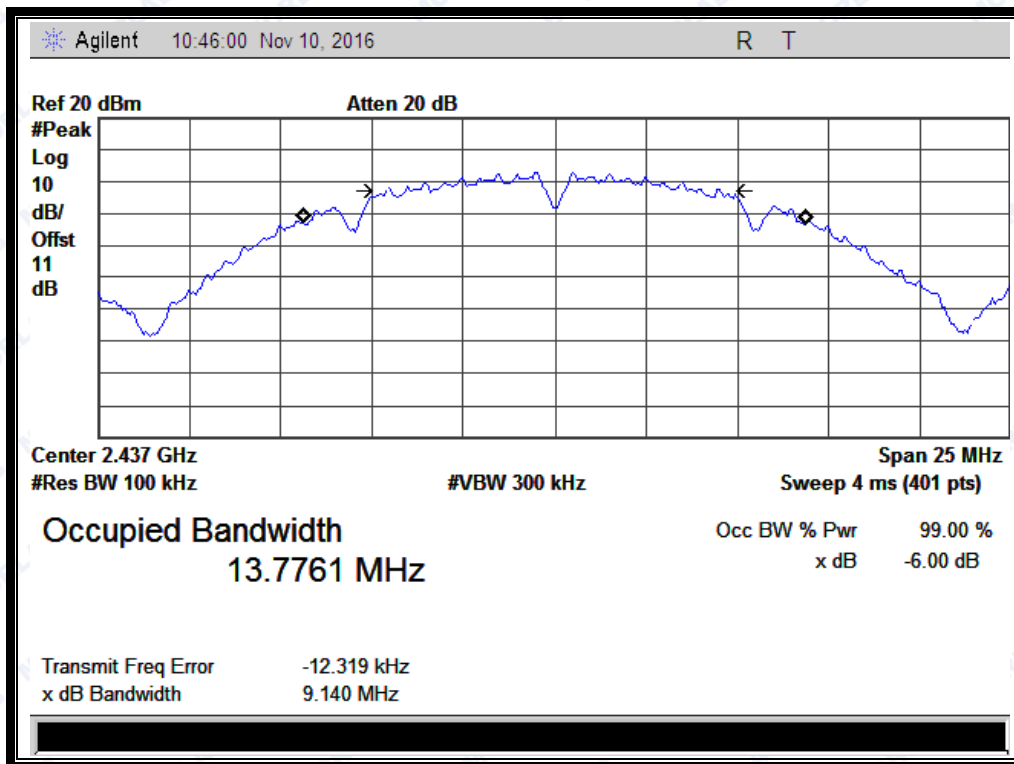
B. Test Plots



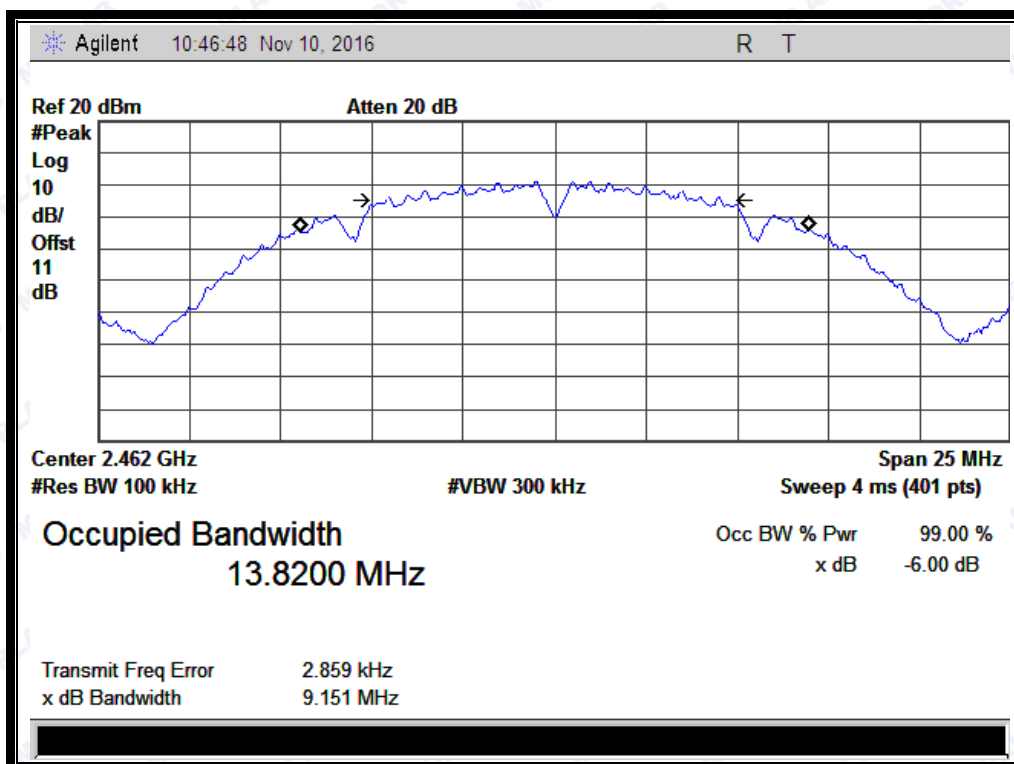
(Channel 1: 2412MHz @ 802.11b)



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(Channel 6: 2437 MHz @ 802.11b)



(Channel 11: 2462MHz @ 802.11b)



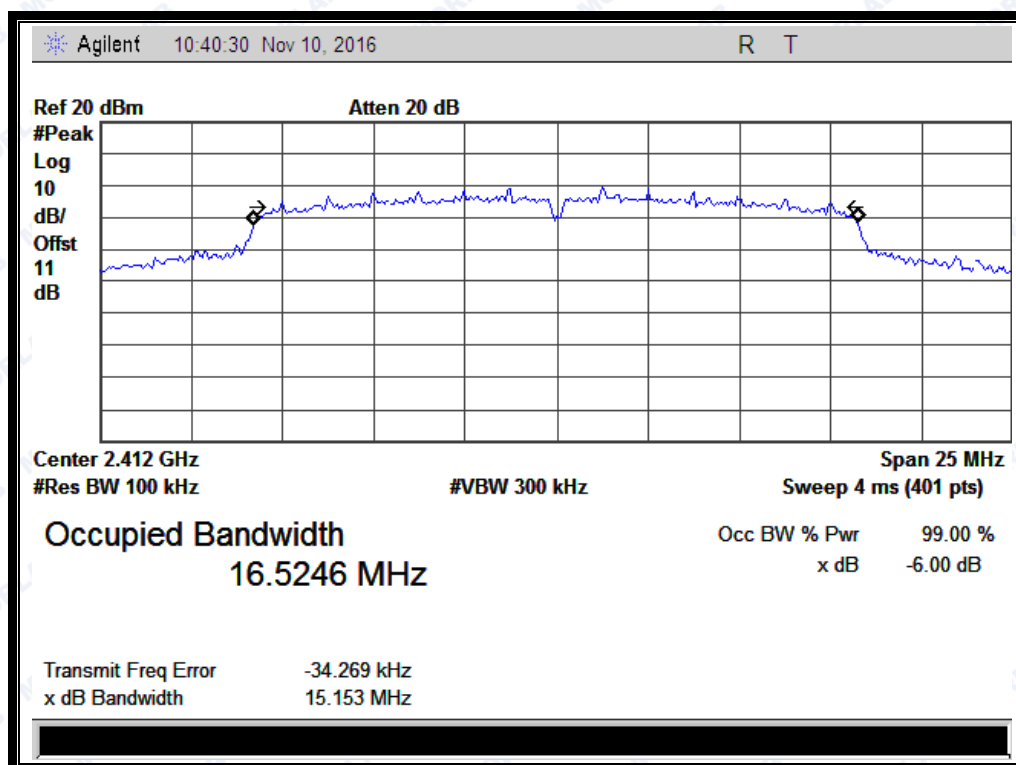
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2.3.3.2 802.11g Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.153	≥ 500	PASS
6	2437	15.101	≥ 500	PASS
11	2462	15.125	≥ 500	PASS

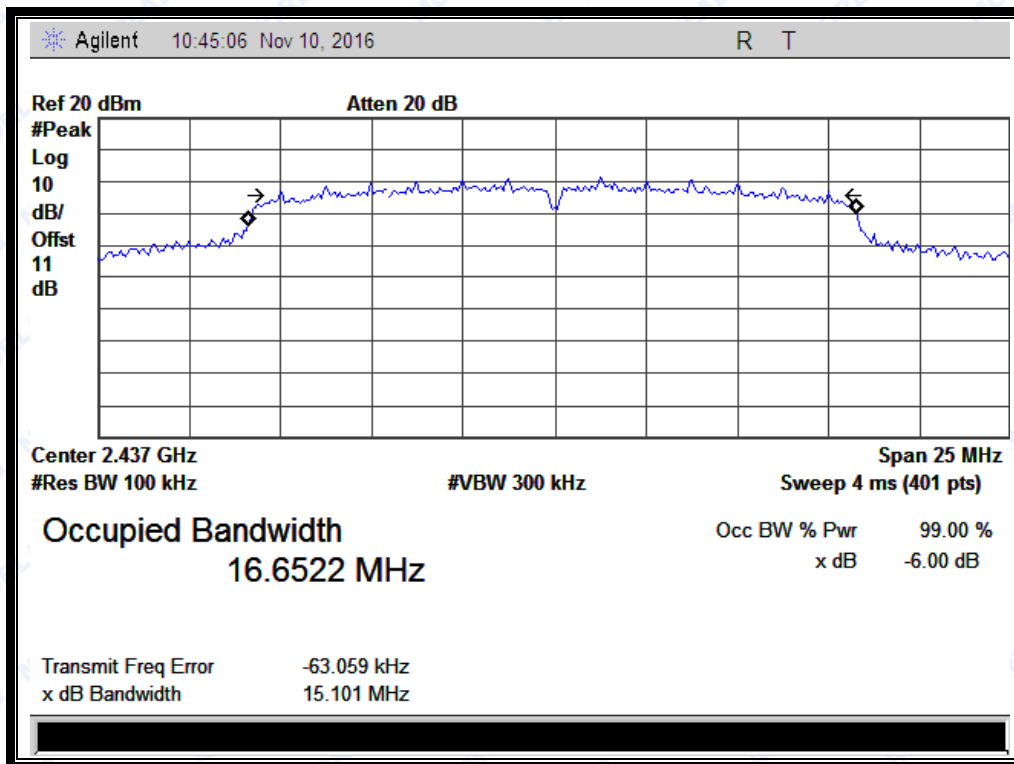
B. Test Plots:



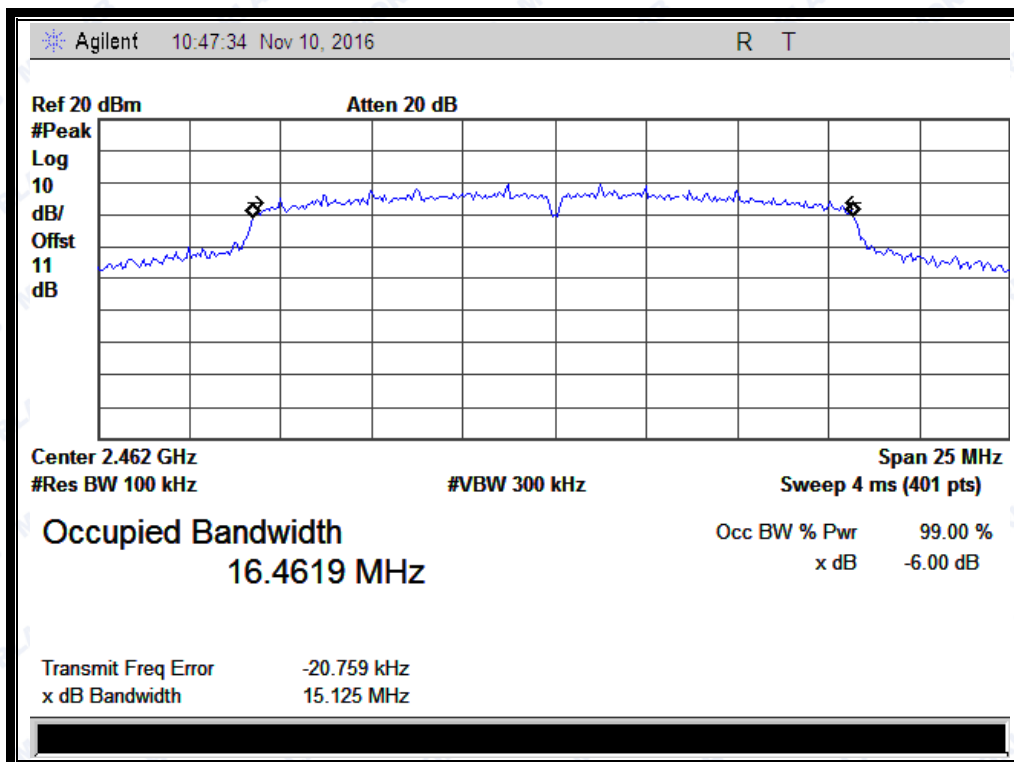
(Channel 1: 2412MHz @ 802.11g)



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(Channel 6: 2437MHz @ 802.11g)



(Channel 11: 2462MHz @ 802.11g)



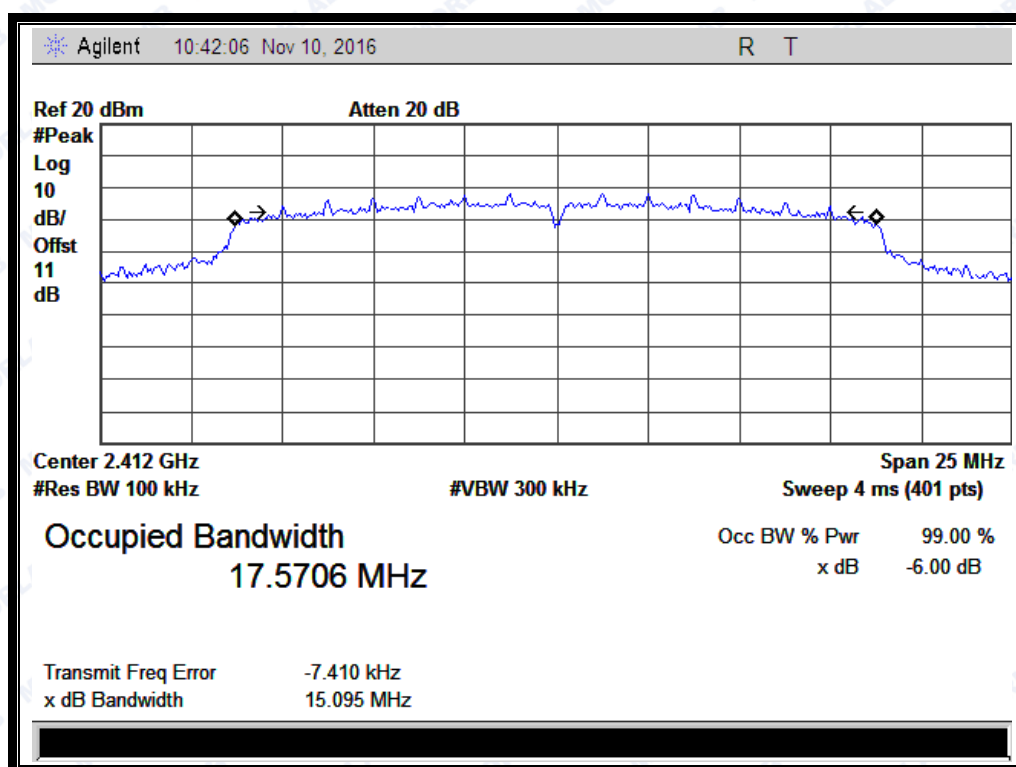
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2.3.3.3 802.11n-20 Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits (kHz)	Result
1	2412	15.095	≥500	PASS
6	2437	15.139	≥500	PASS
11	2462	15.064	≥500	PASS

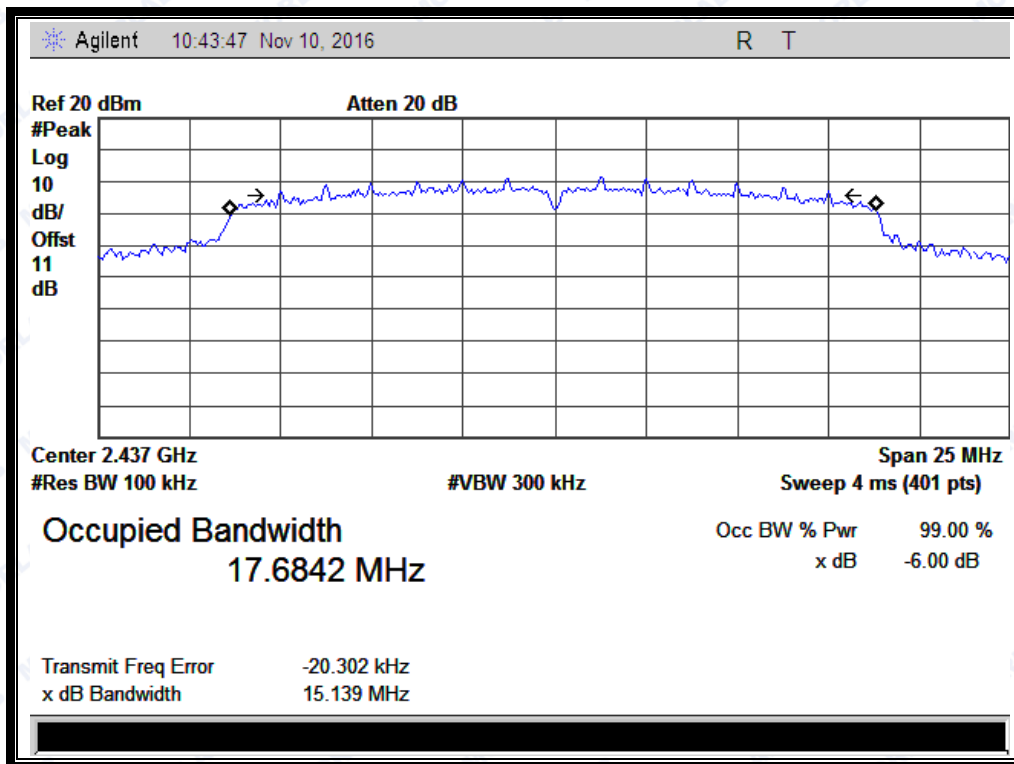
B. Test Plots:



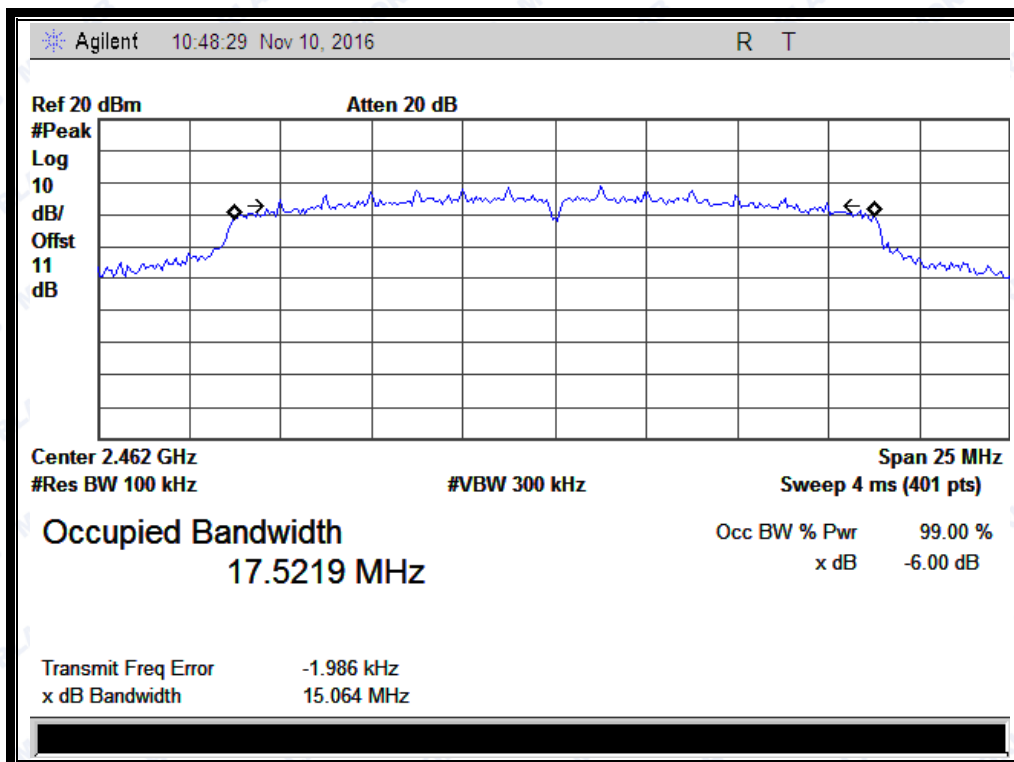
(Channel 1: 2412MHz @ 802.11n-20)



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(Channel 6: 2437MHz @ 802.11n-20)



(Channel 11: 2462MHz @ 802.11n-20)

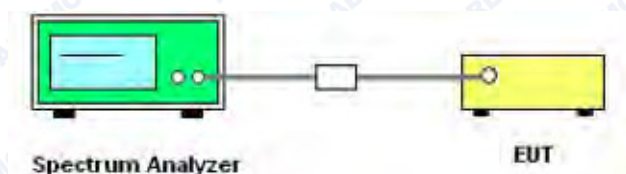
2.4 Conducted Spurious Emissions and Band Edge

2.4.1 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.

2.4.2 Test Description

A. Test Set:



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.

KDB 558074 Section 11.0 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.5).

2.4.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions.



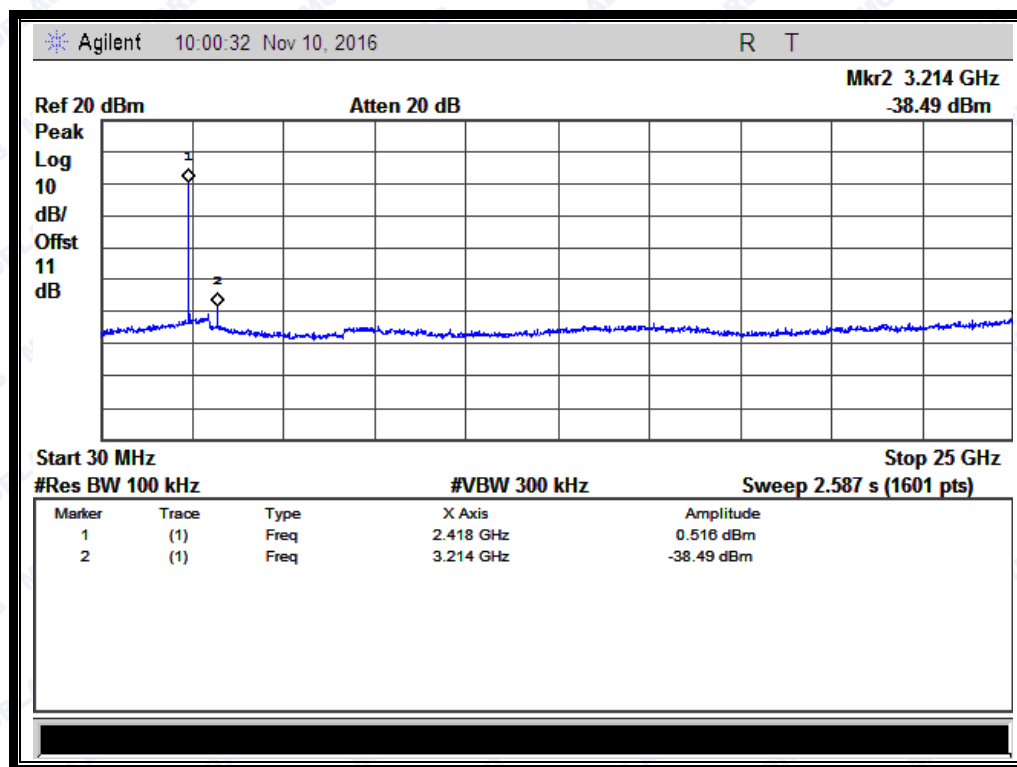
REPORT No.: SZ16080140W01

2.4.3.1 802.11b 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	-38.49	0.52	-19.48	PASS
6	2437	-40.54	2.80	-17.20	PASS
11	2462	-40.12	0.75	-19.25	PASS

B. Test Plots:

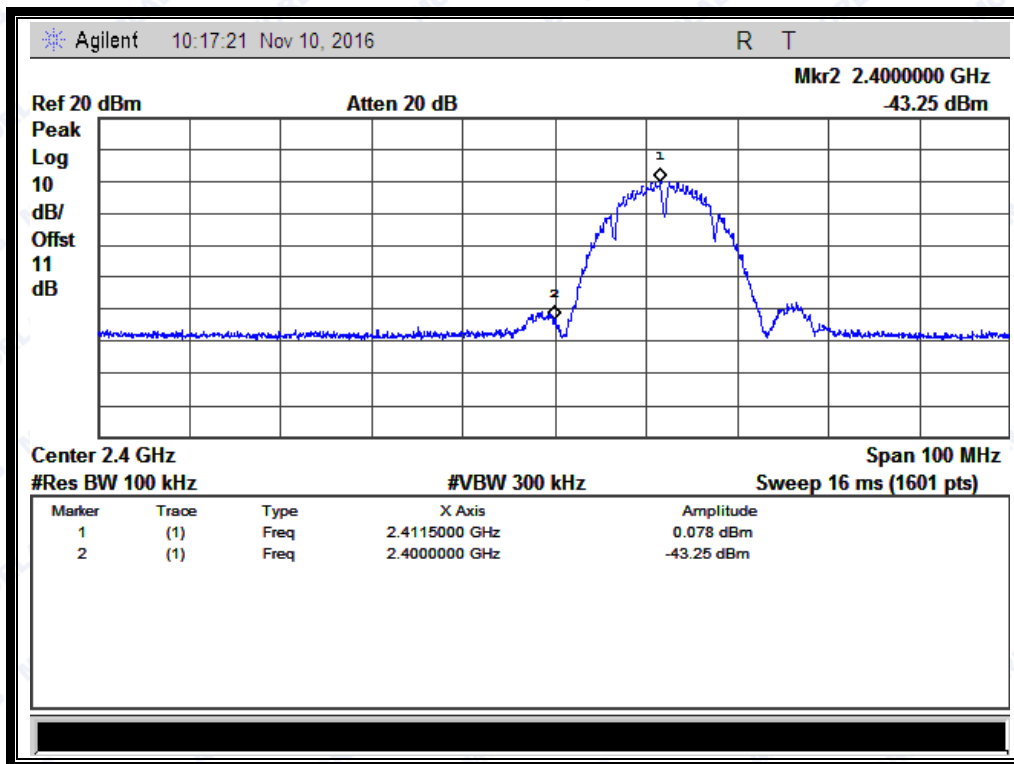
Note: the power of the Module transmitting frequency should be ignored.



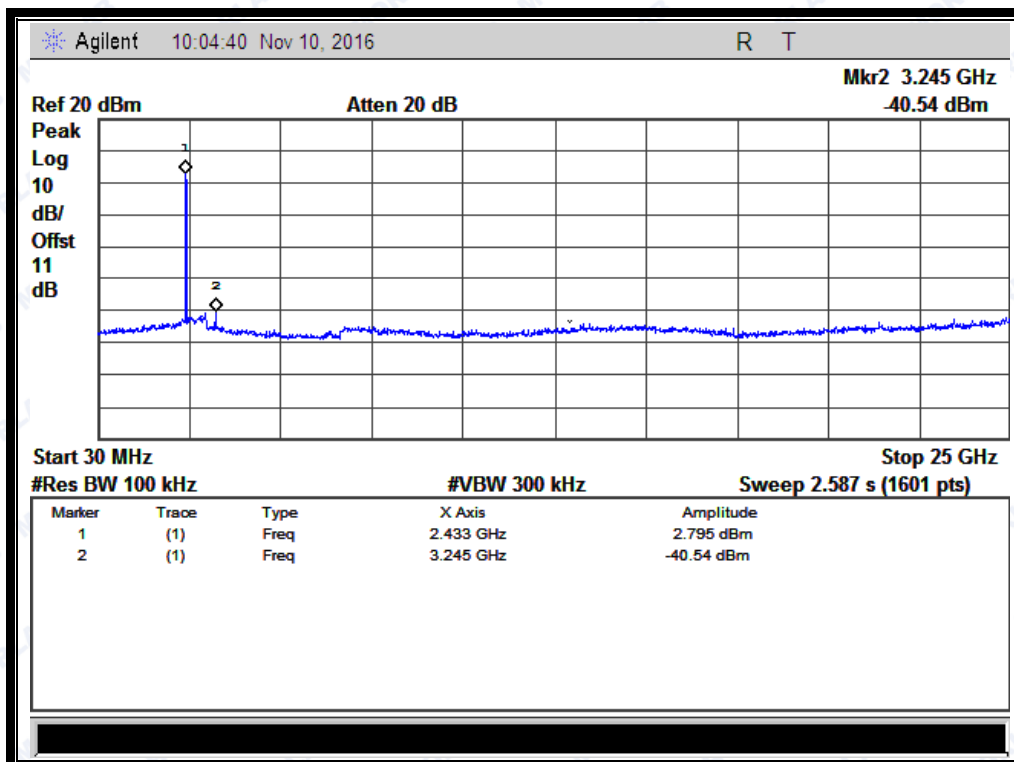
(Channel = 1, 30MHz to 25GHz)



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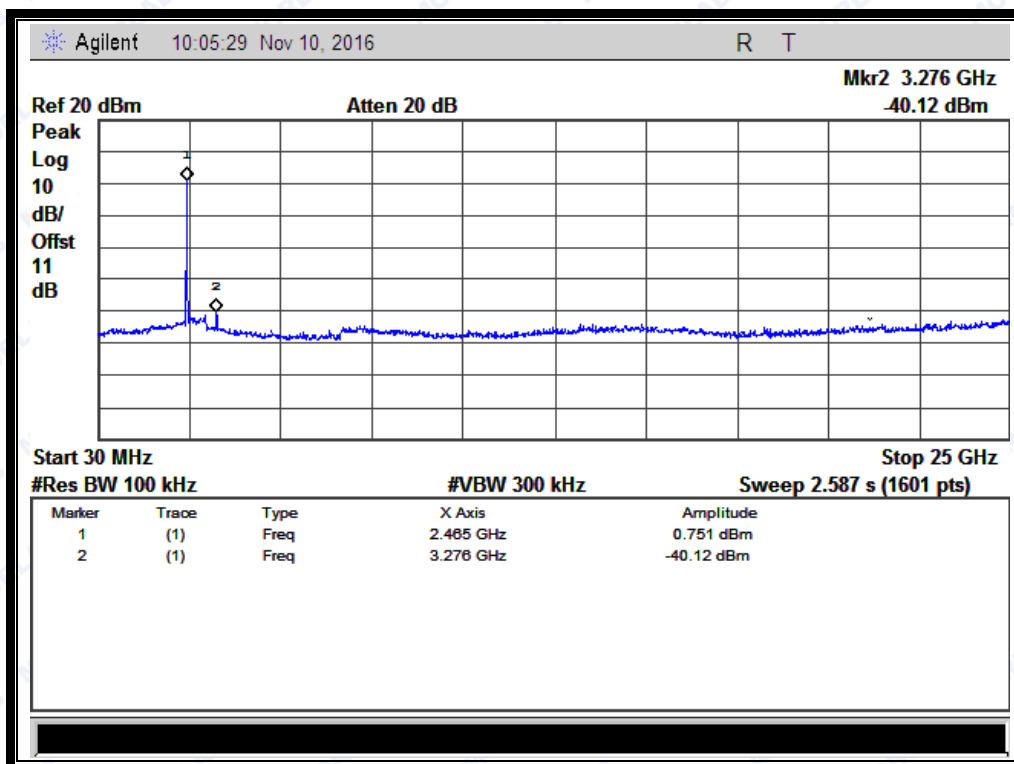
(Band Edge @ Channel = 1)



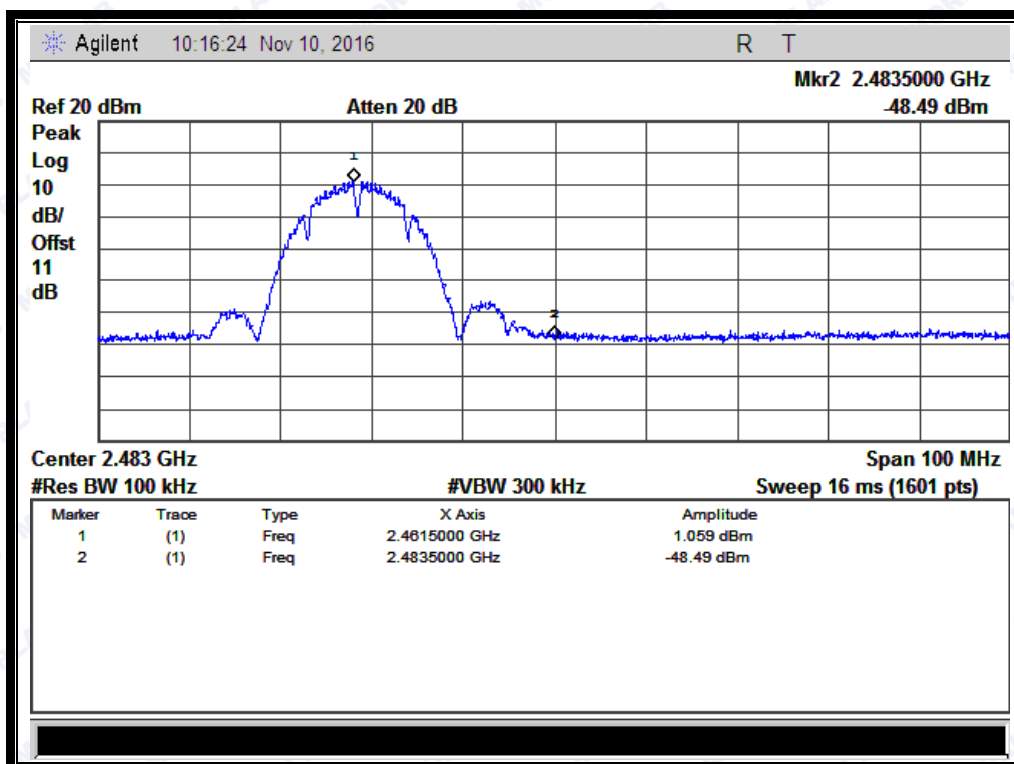
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



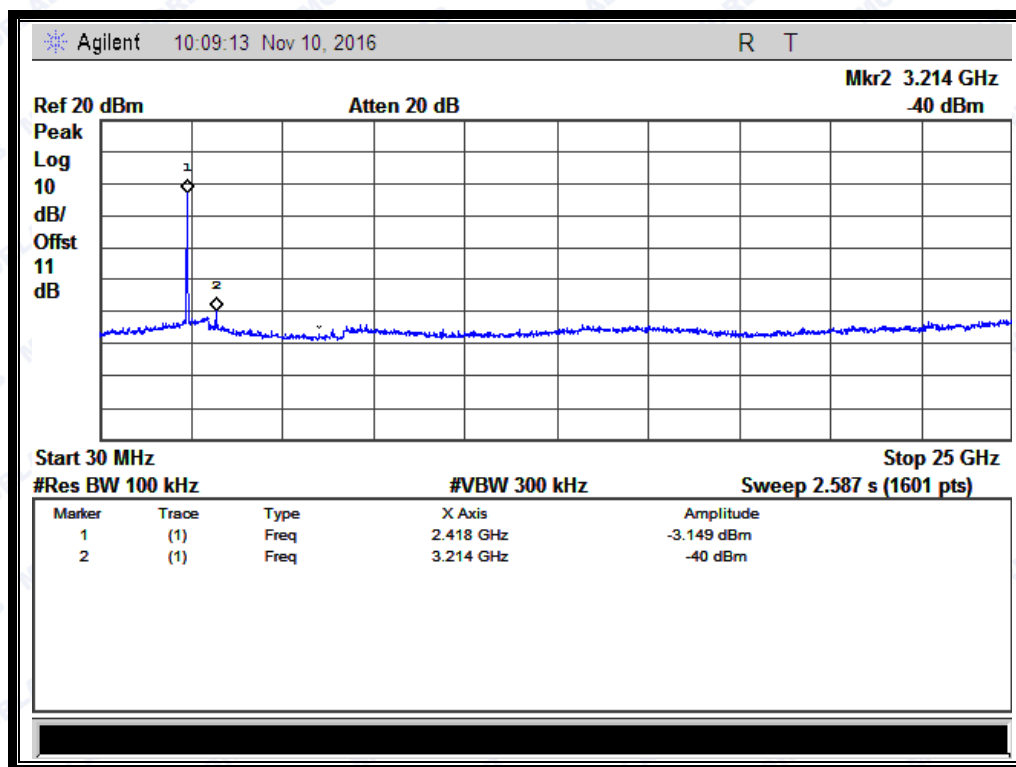
(Band Edge @ Channel = 11)

**2.4.3.2 802.11g 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	-40.00	-3.15	-23.15	PASS
6	2437	-41.00	-1.34	-21.34	PASS
11	2462	-41.22	-2.95	-22.95	PASS

B. Test Plots:

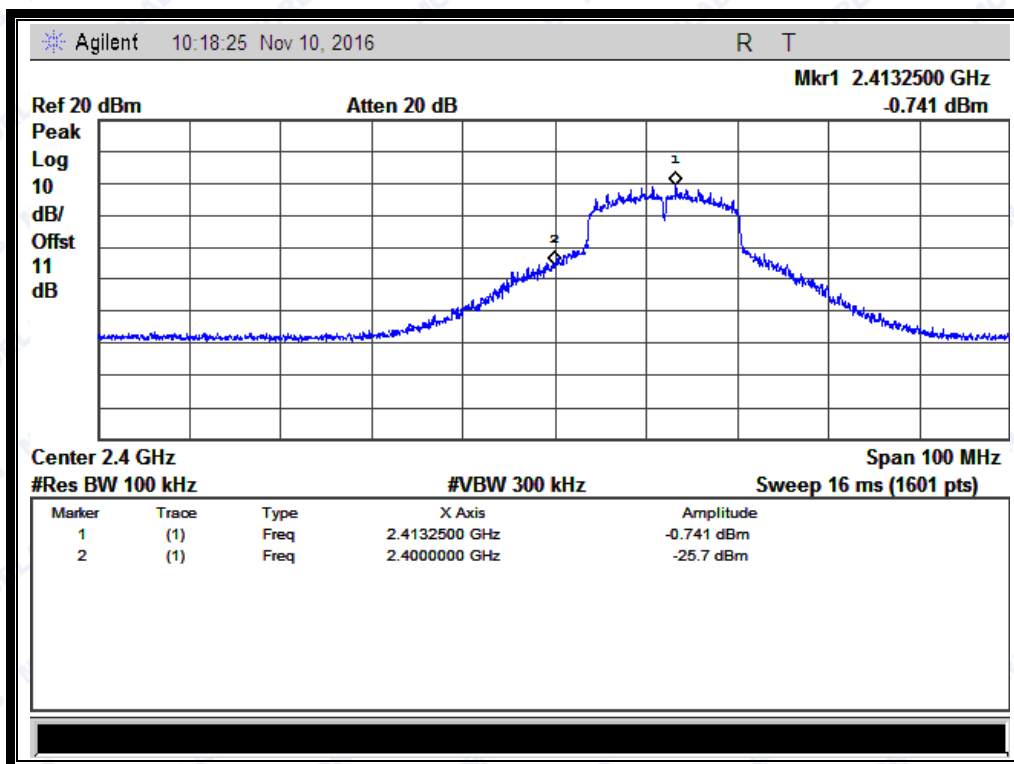
Note: the power of the Module transmitting frequency should be ignored.



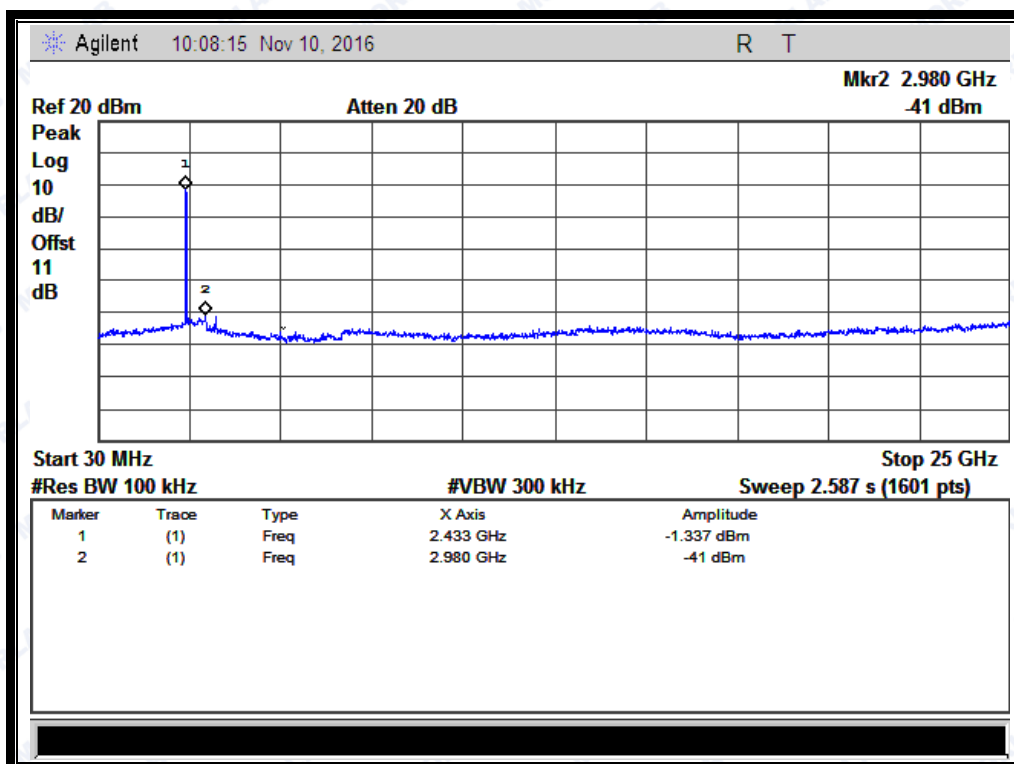
(Channel = 1, 30MHz to 25GHz)



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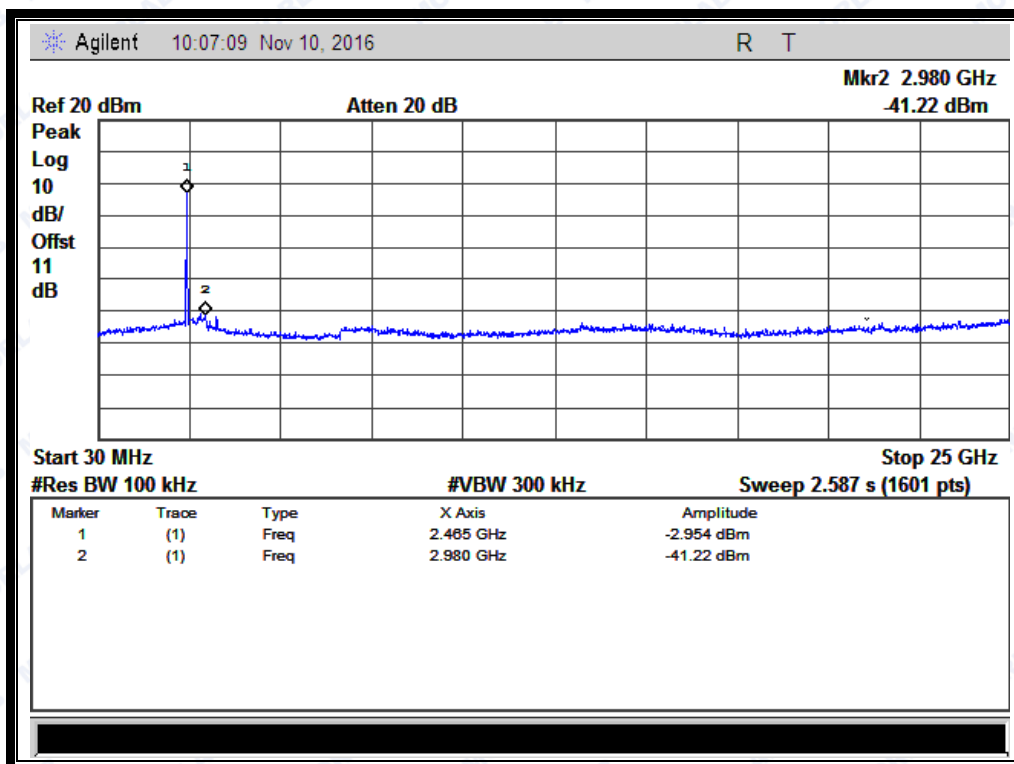
(Band Edge @ Channel = 1)



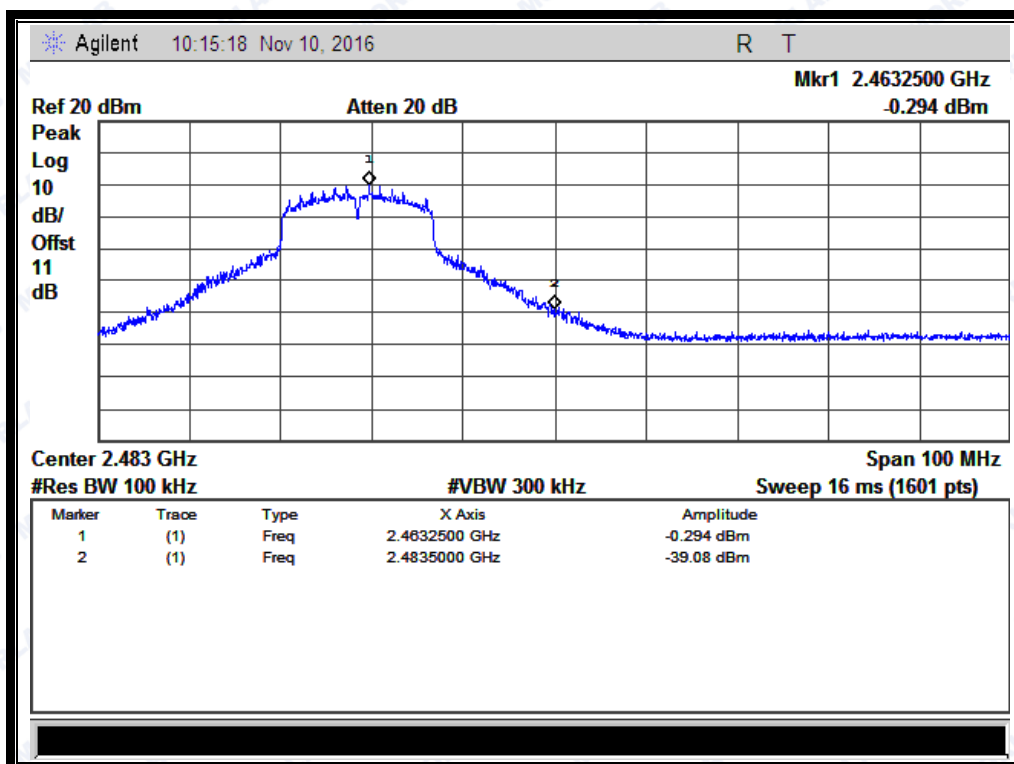
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



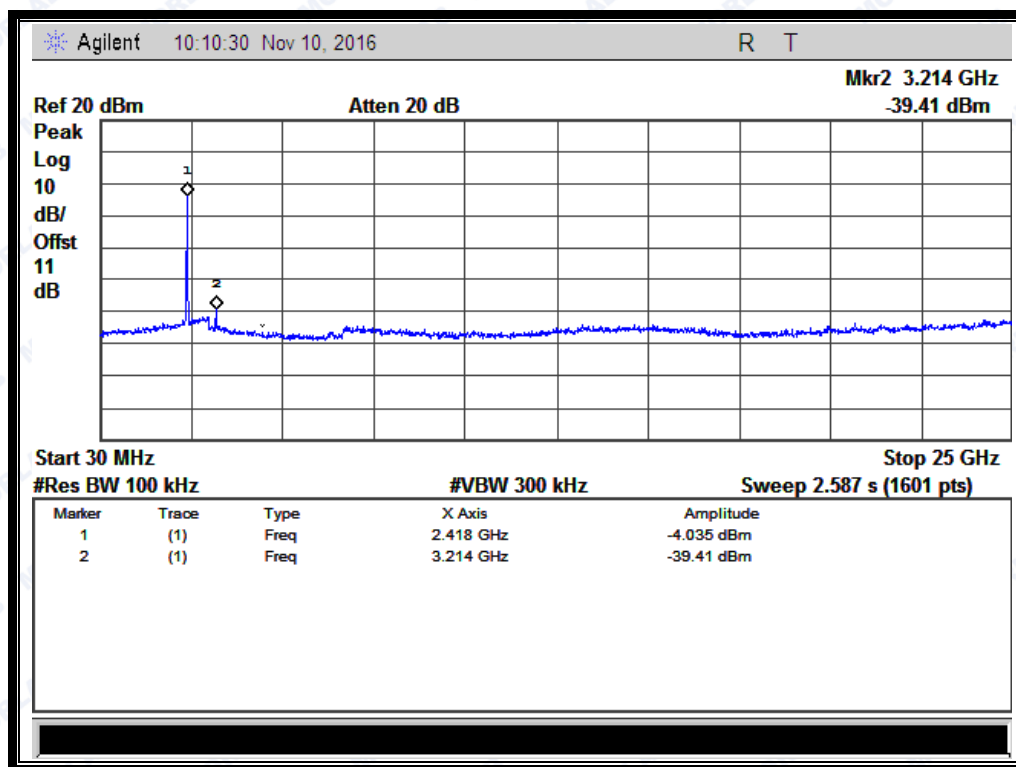
(Band Edge @ Channel = 11)

**2.4.3.3 802.11n -20MHz 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	-39.41	-4.04	-24.04	PASS
6	2437	-41.40	0.09	-19.91	PASS
11	2462	-41.26	-1.63	-21.63	PASS

B. Test Plots:

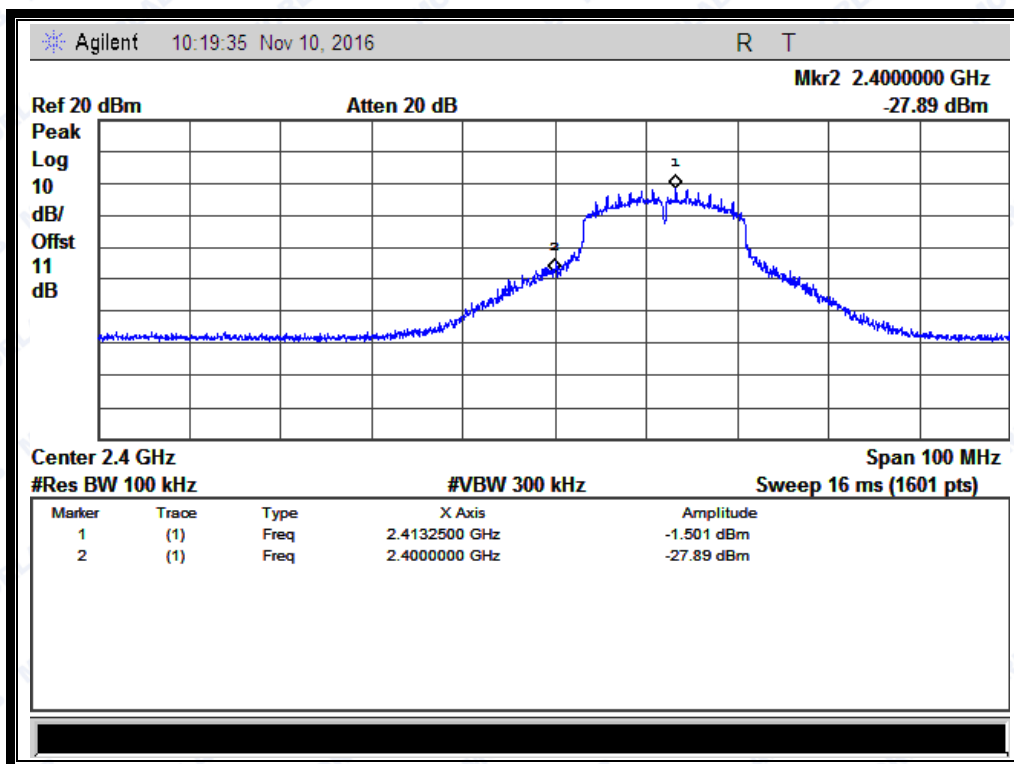
Note: the power of the Module transmitting frequency should be ignored.



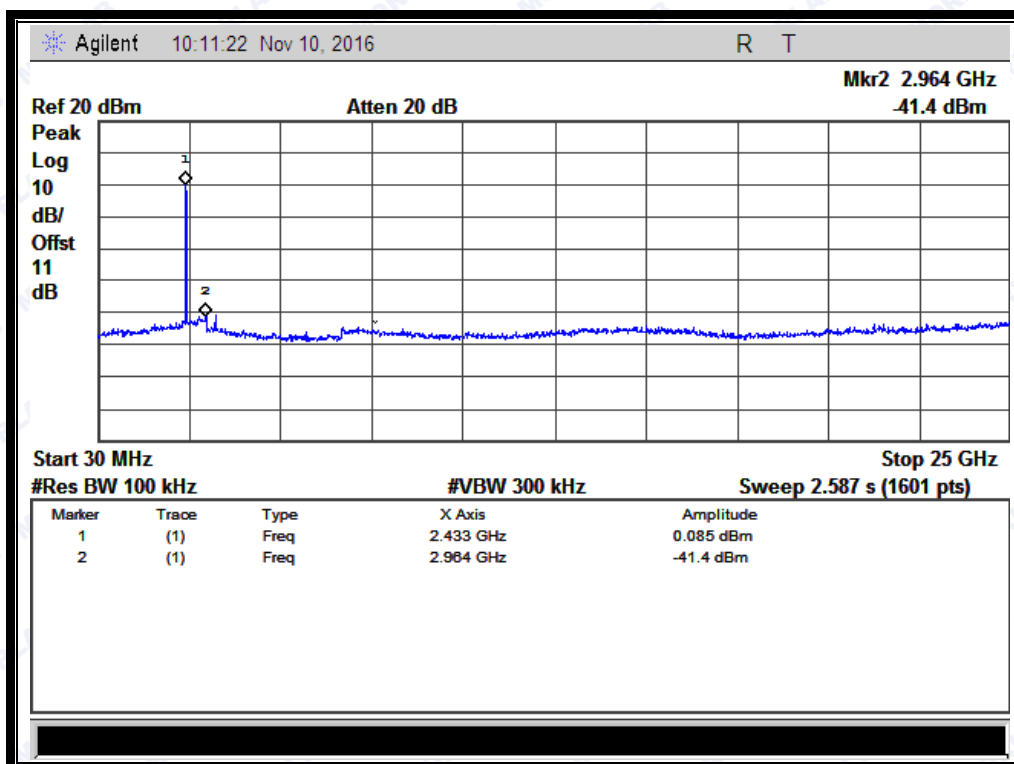
(Channel = 1, 30MHz to 25GHz)



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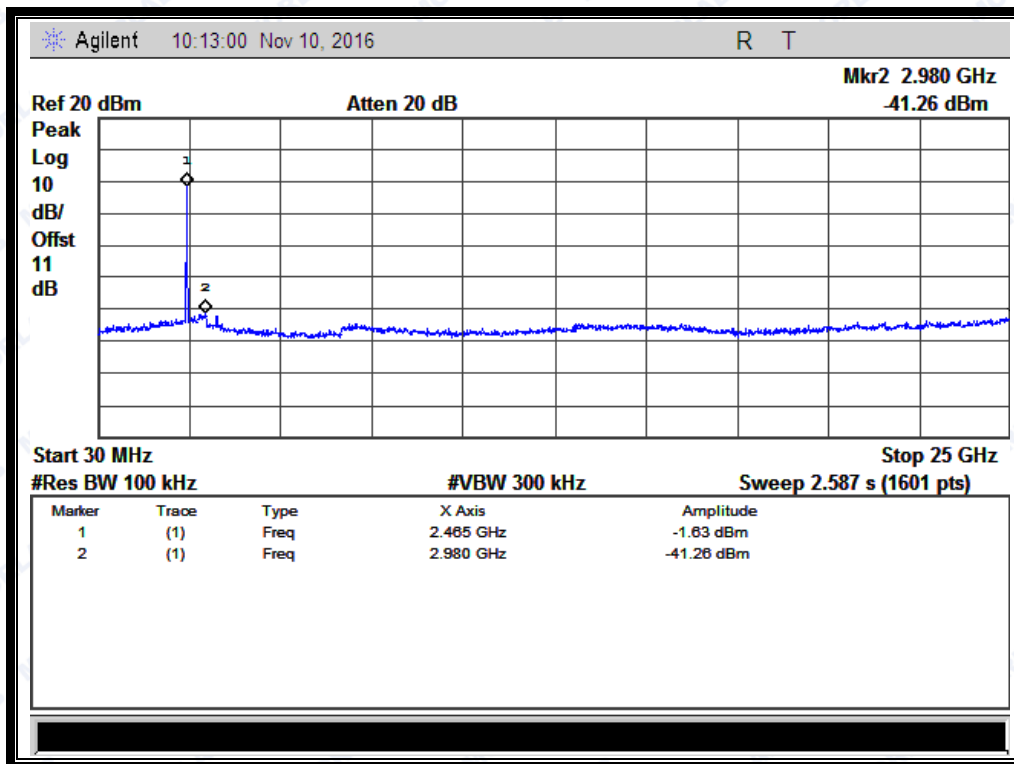
(Band Edge @ Channel = 1)



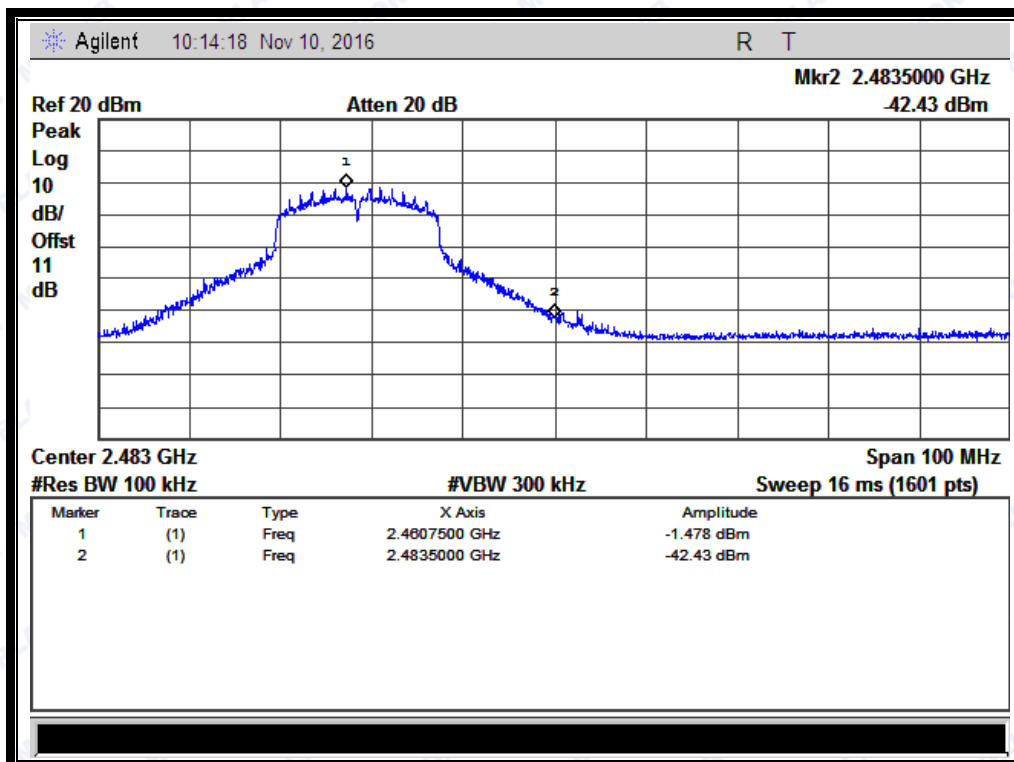
(Channel = 6, 30MHz to 25GHz)



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(Channel = 11, 30MHz to 25GHz)



(Band Edge @ Channel = 11)

2.5 Power spectral density (PSD)

2.5.1 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.

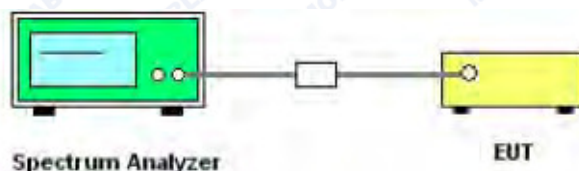
2.5.2 Test Description

A. Test procedure

The measured power spectral density was calculated by the reading of the spectrum analyzer and calibration. Following is the test procedure for PSD test:

- Set analyzer center frequency to channel center frequency.
- Set the span to 30MHz
- Set the RBW to 3 kHz
- Set the VBW to 10KHz
- 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.

B. Test Set:



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.

KDB 558074 Section 10.2 was used in order to prove compliance.

C. Equipments List:

Please reference ANNEX A(1.5).



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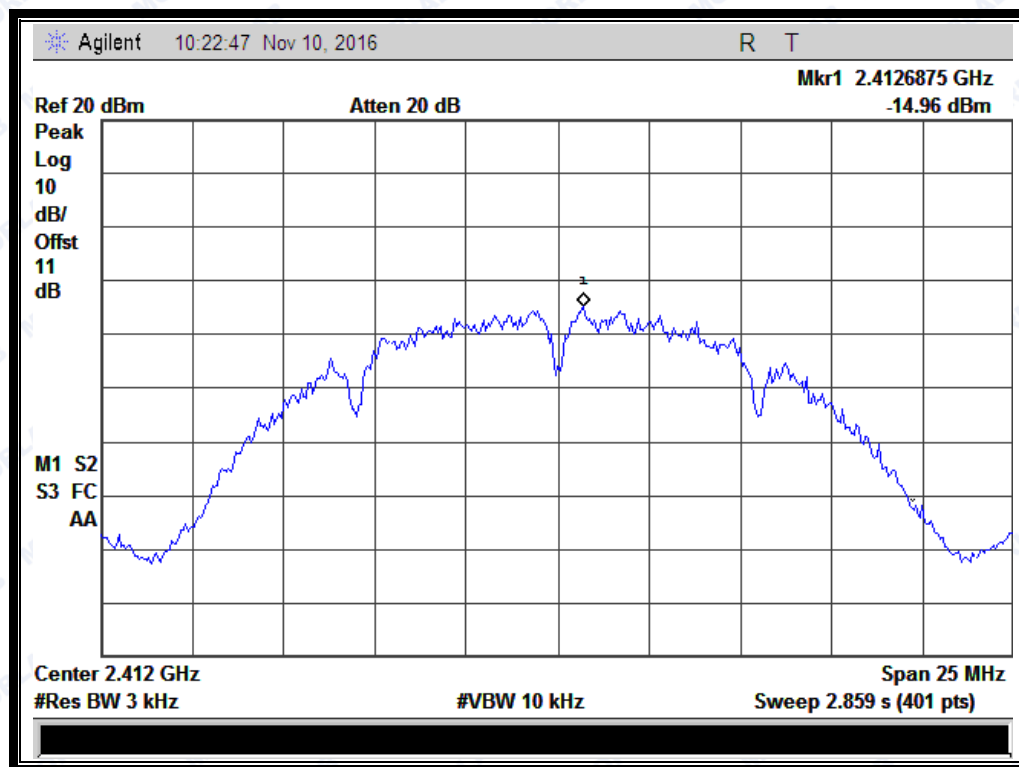
2.5.3 Test Result

2.5.3.1 802.11b Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-14.96	8	PASS
6	2437	-11.33	8	PASS
11	2462	-13.90	8	PASS
Measurement uncertainty: ± 1.3 dB				

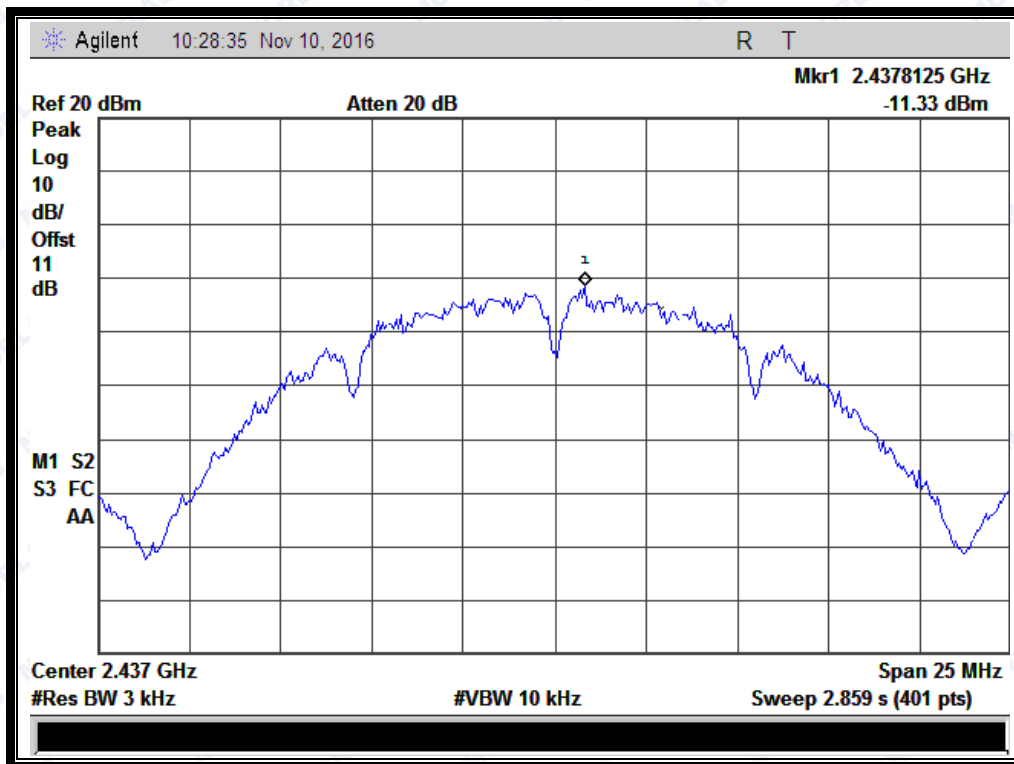
B. Test Plots:



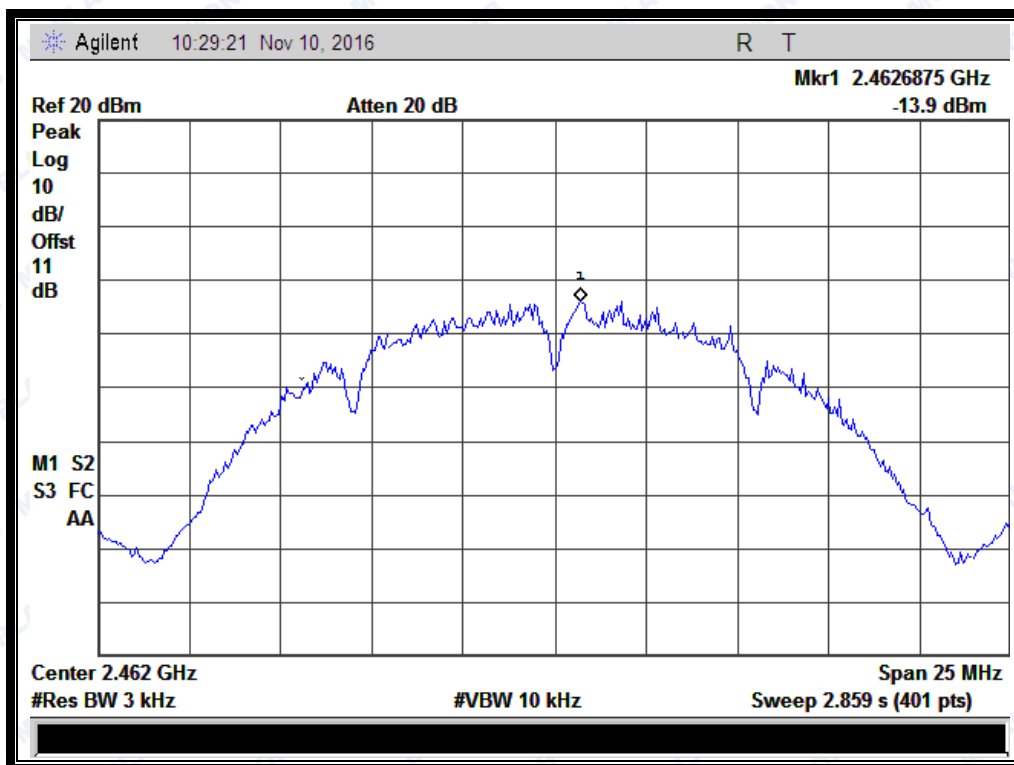
(Channel = 1 @ 802.11b)



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(Channel = 6 @ 802.11b)



(Channel = 11 @ 802.11b)



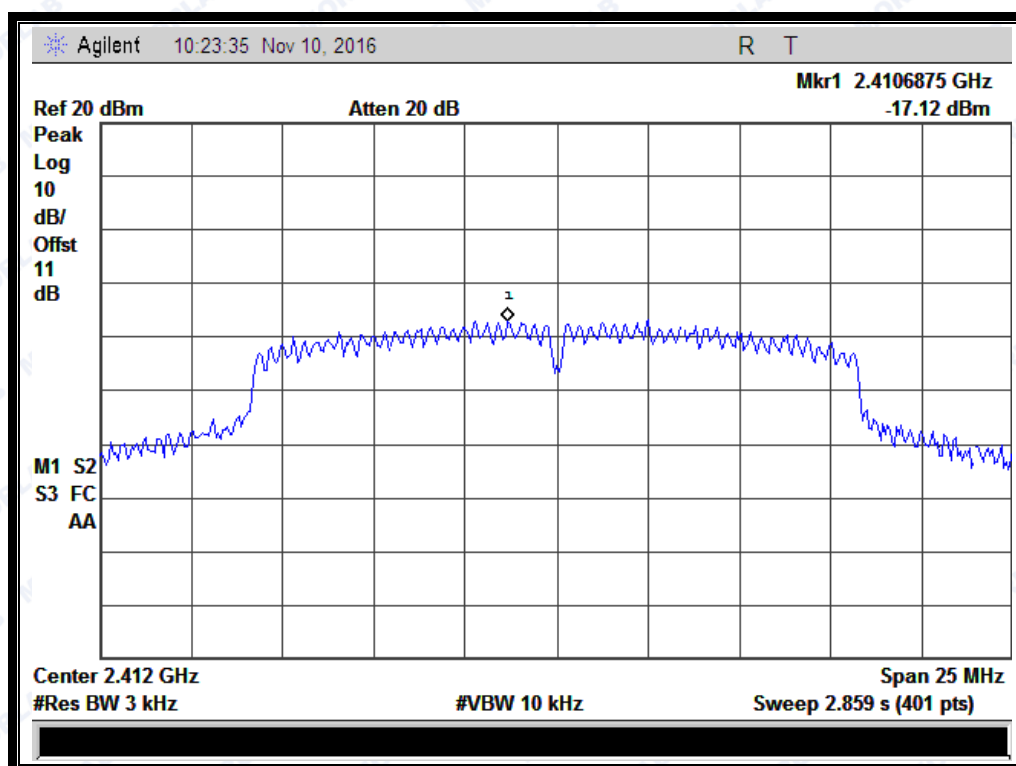
REPORT No.: SZ16080140W01

2.5.3.2 802.11g Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-17.12	8	PASS
6	2437	-13.77	8	PASS
11	2462	-16.74	8	PASS
Measurement uncertainty: ± 1.3 dB				

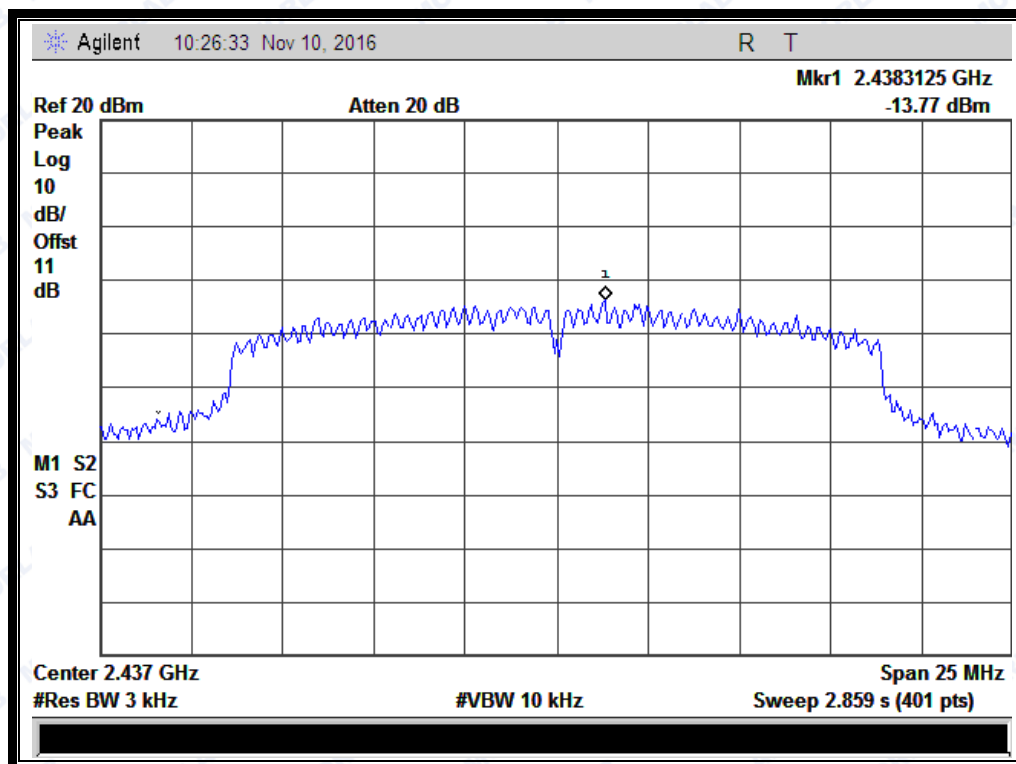
B. Test Plots:



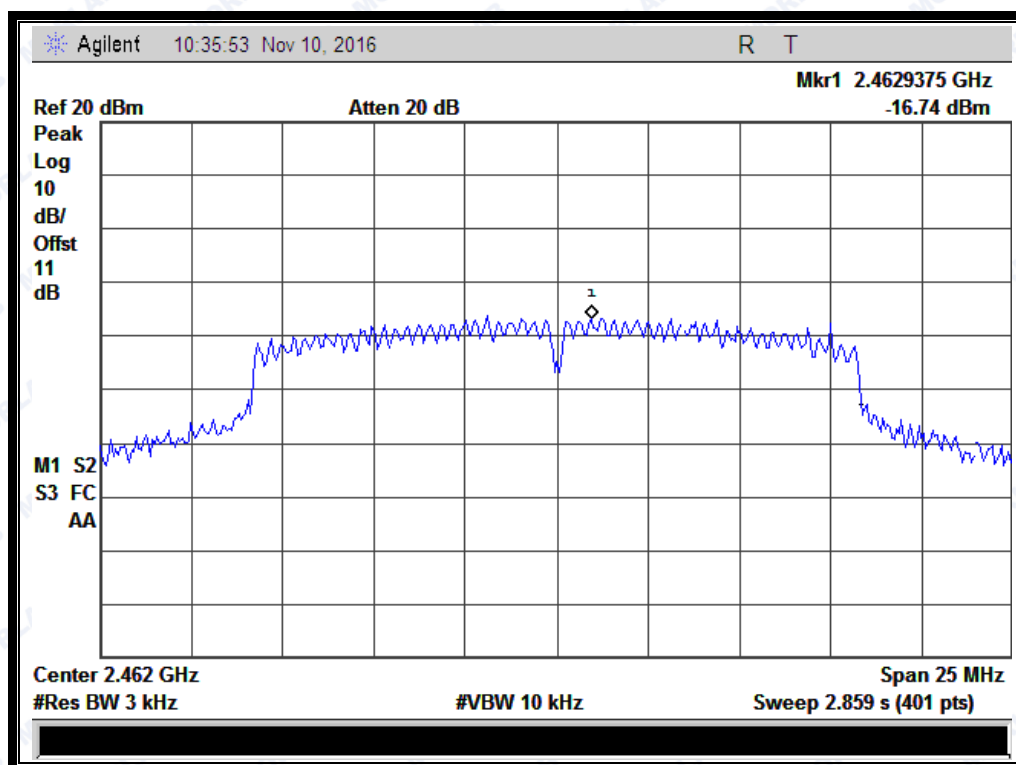
(Channel = 1 @ 802.11g)



REPORT No.: SZ16080140W01



(Channel = 6 @ 802.11g)



(Channel = 11 @ 802.11g)



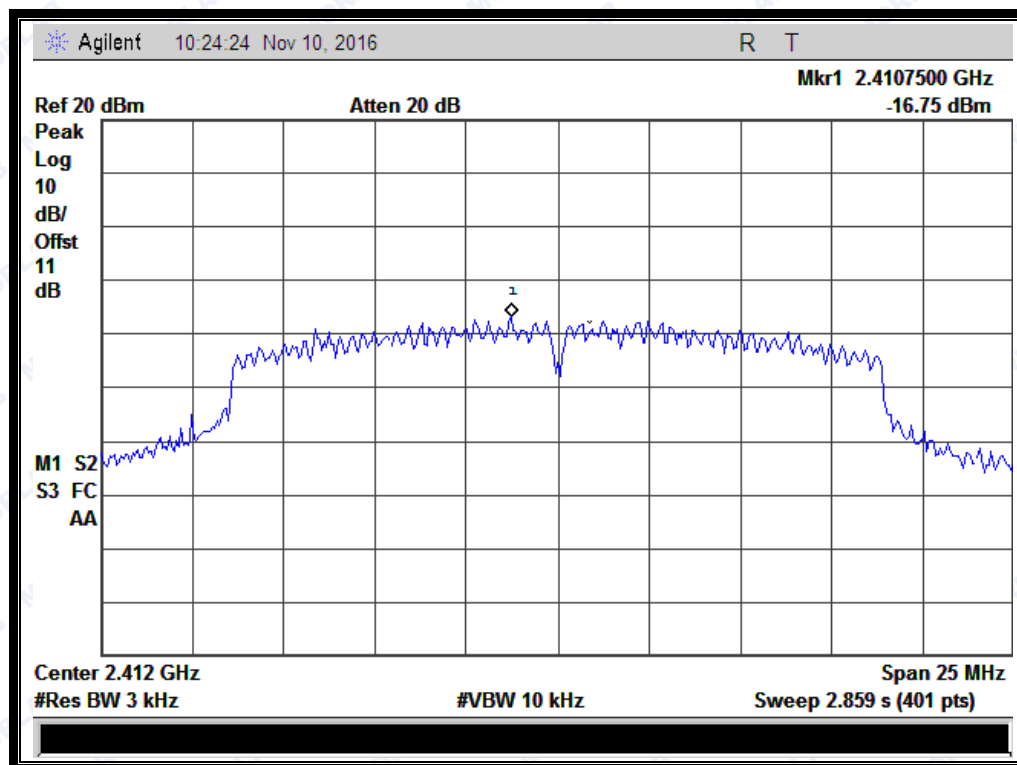
REPORT No.: SZ16080140W01

2.5.3.3 802.11n-20MHz Test mode

A. Test Verdict:

Spectral power density (dBm/3kHz)				
Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1	2412	-16.75	8	PASS
6	2437	-14.56	8	PASS
11	2462	-17.03	8	PASS
Measurement uncertainty: ± 1.3 dB				

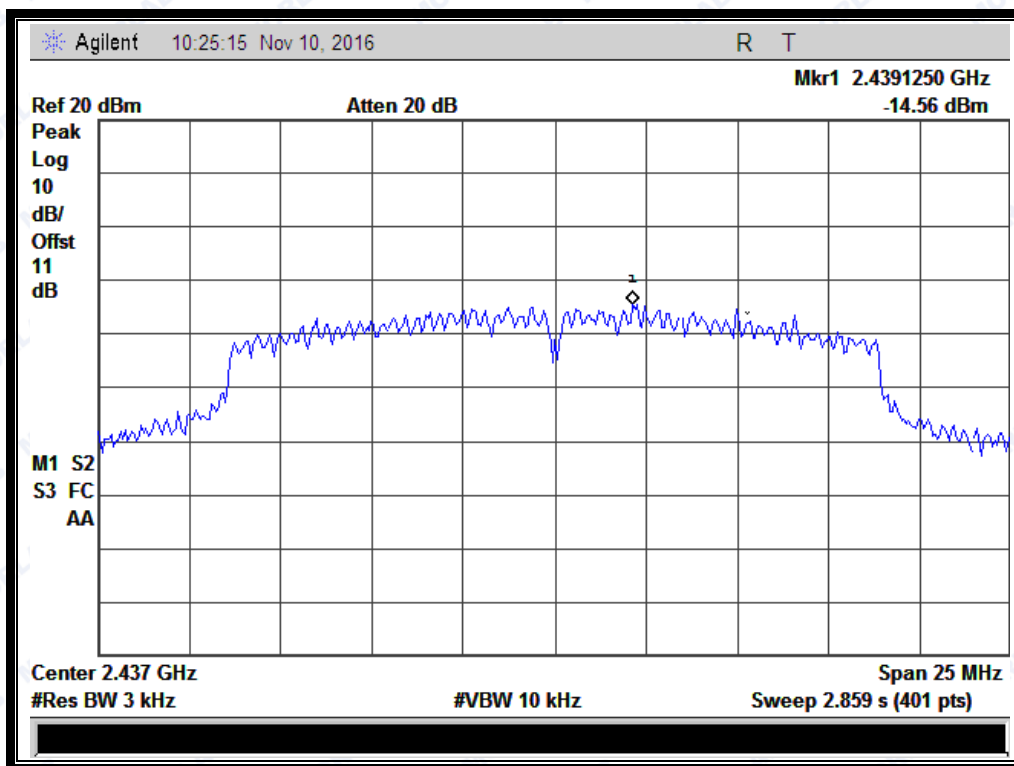
B. Test Plots:



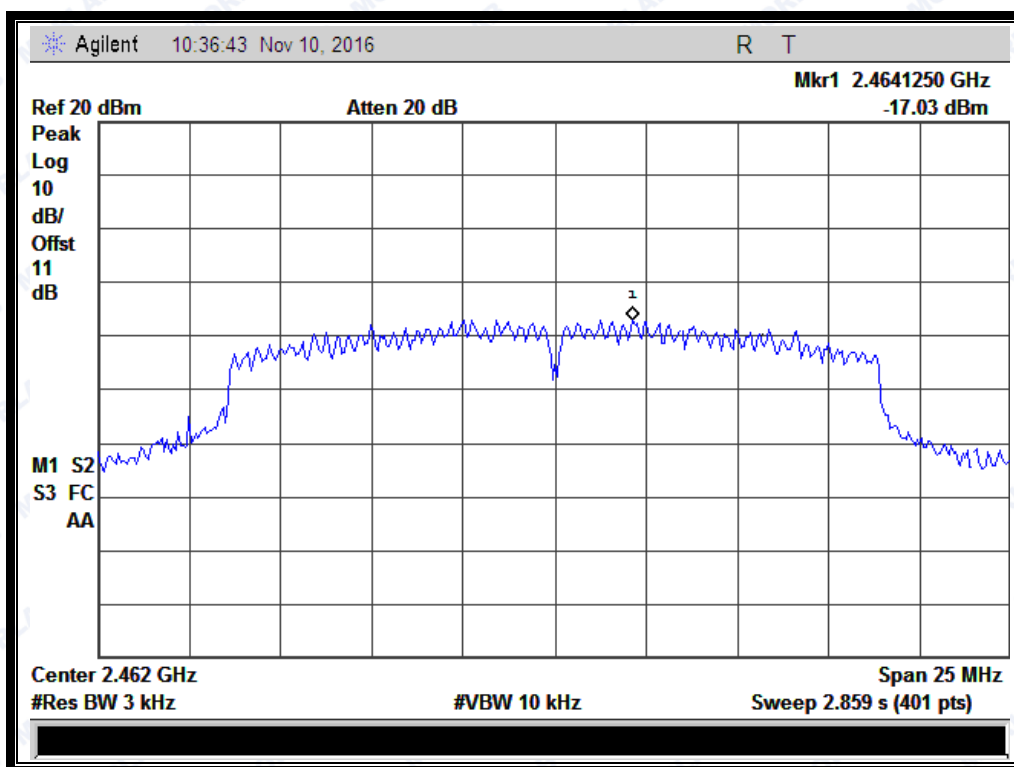
(Channel = 1 @ 802.11n-20MHz)



REPORT No.: SZ16080140W01



(Channel = 6 @ 802.11n-20MHz)



(Channel = 11 @ 802.11n-20MHz)

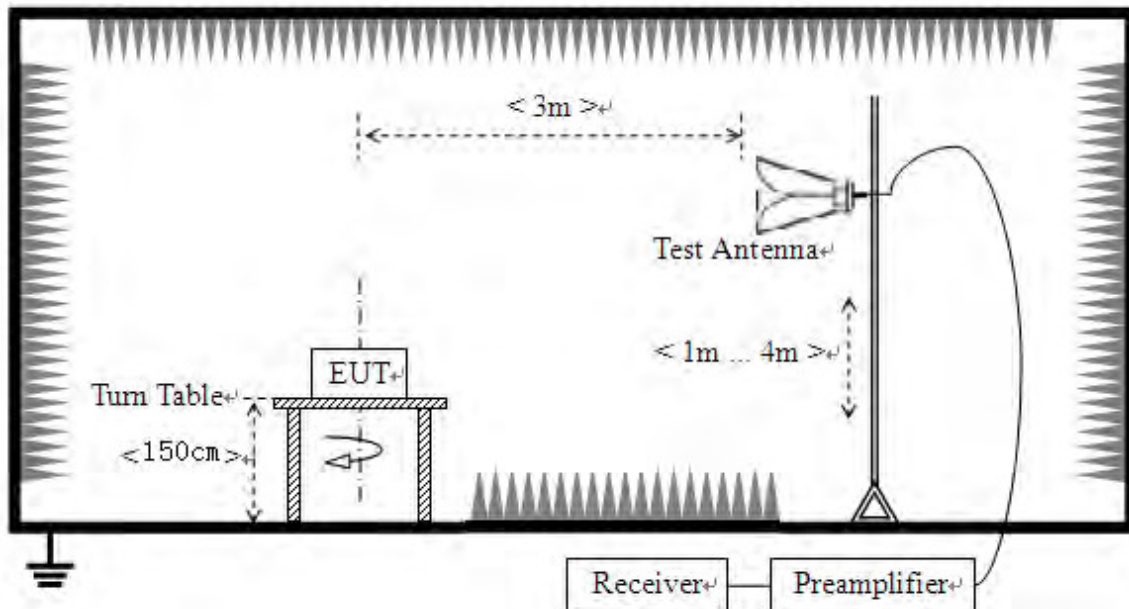
2.6 Restricted Frequency Bands

2.6.1 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).

2.6.2 Test Description

A. 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.

KDB 558074 Section 12.1 was used in order to prove compliance.

B. Equipments List:

Please reference ANNEX A(1.5).



2.6.3 Test Result

The lowest and highest channels are tested to verify Restricted Frequency Bands.

The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

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.

2.6.3.1 802.11b Test mode

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dB μ V)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dB μ V/m)	Limit (dB μ V/m)	Verdict
		PK/ AV						
1	2375.15	PK	62.74	-33.63	32.56	61.67	74	Pass
1	2375.15	AV	34.16	-33.63	32.56	33.09	54	Pass
11	2484.61	PK	48.90	-33.18	32.5	48.22	74	Pass
11	2484.61	AV	34.22	-33.18	32.5	33.54	54	Pass

B. Test Plots:



REPORT No.: SZ16080140W01



(Plot A1: Channel = 1 PEAK @ 802.11b)



(Plot A2: Channel = 1 AVG @ 802.11b)



REPORT No.: SZ16080140W01



(Plot B1: Channel = 11 PEAK @ 802.11b)



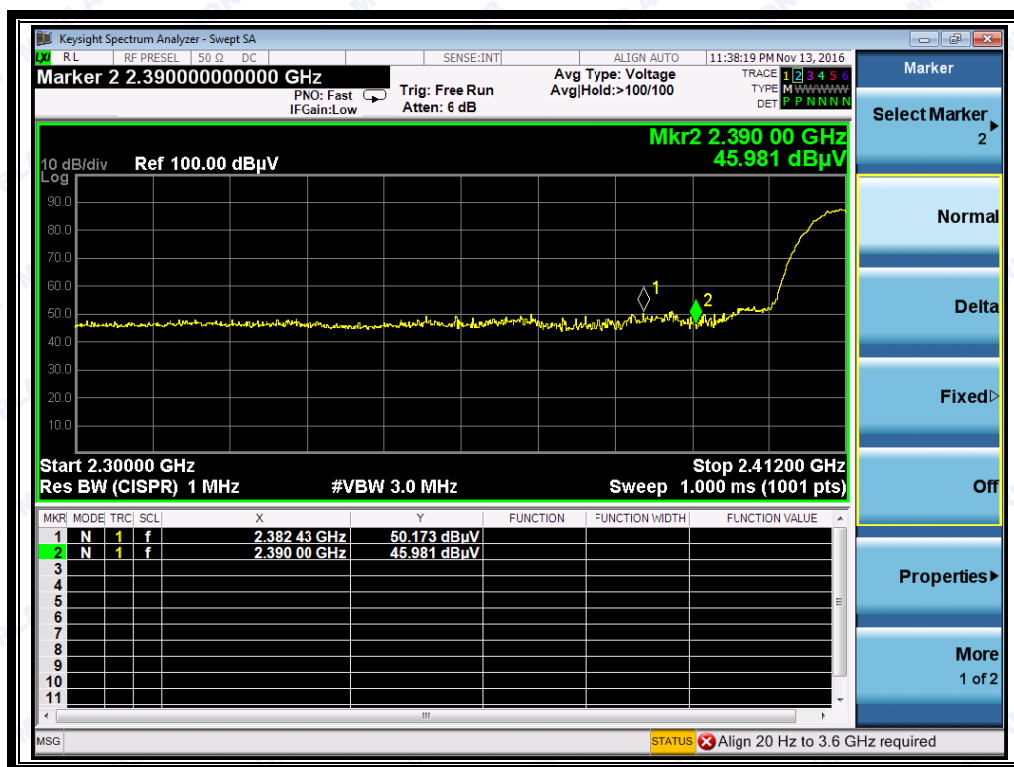
(Plot B2: Channel = 11 AVG @ 802.11b)

**2.6.3.2 802.11g Test mode**

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBuV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBuV/m)	Limit (dBuV/m)	Verdict
		PK/ AV						
1	2382.43	PK	50.17	-33.63	32.56	49.10	74	Pass
1	2382.43	AV	33.70	-33.63	32.56	32.63	54	Pass
11	2484.61	PK	50.57	-33.18	32.5	49.89	74	Pass
11	2484.61	AV	34.29	-33.18	32.5	33.61	54	Pass

B. Test Plots:

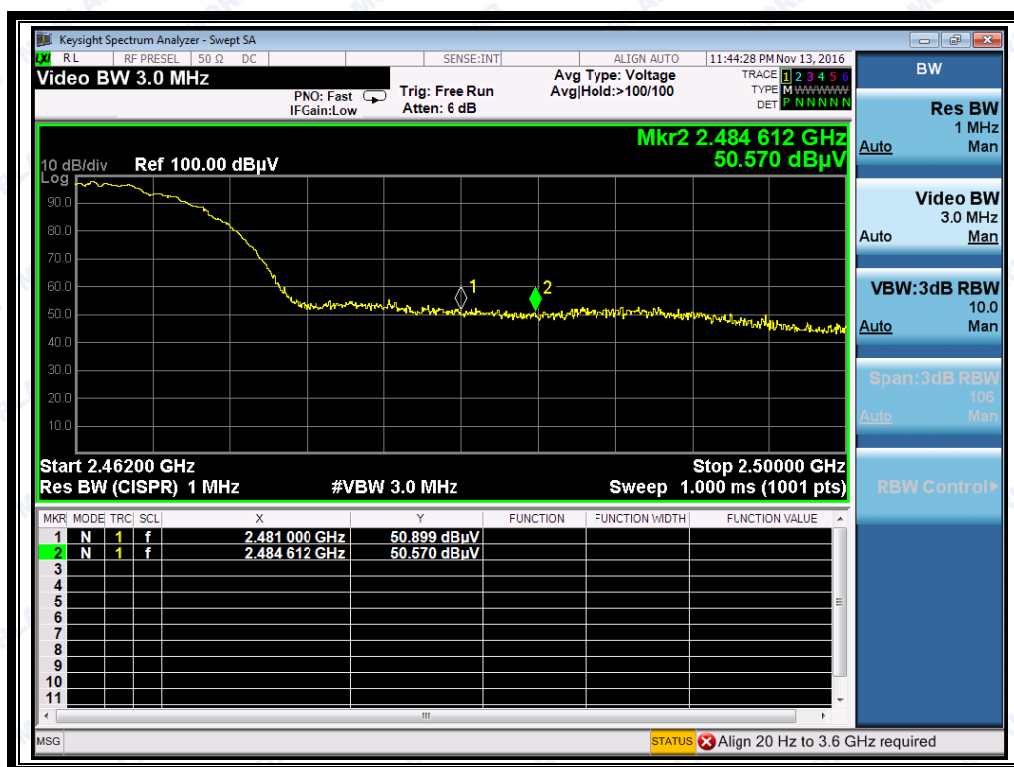
(Plot C1: Channel = 1 PEAK @ 802.11g)



REPORT No.: SZ16080140W01



(Plot C2: Channel = 1 AVG @ 802.11g)



(Plot D1: Channel = 11 PEAK @ 802.11g)



(Plot D2: Channel = 11 AVG @ 802.11g)

2.6.3.3 802.11n-20MHz Test mode

The lowest and highest channels are tested to verify the band edge emissions.

A. Test Verdict:

Channel	Frequency (MHz)	Detector	Receiver Reading U_R (dBμV)	A_T (dB)	A_{Factor} (dB@3m)	Max. Emission E (dBμV/m)	Limit (dBμV/m)	Verdict
		PK/ AV						
1	2382.43	PK	51.38	-33.63	32.56	50.31	74	Pass
1	2382.43	AV	35.06	-33.63	32.56	33.99	54	Pass
11	2484.61	PK	48.30	-33.18	32.5	47.62	74	Pass
11	2484.61	AV	34.30	-33.18	32.5	33.62	54	Pass

B. Test Plots:



REPORT No.: SZ16080140W01



(Plot E1: Channel = 1 PEAK @ 802.11n-20)



(Plot E2: Channel = 1 AVG @ 802.11n-20)



REPORT No.: SZ16080140W01



(Plot F1: Channel = 11 PEAK @ 802.11n-20)



(Plot F2: Channel = 11 AVG @ 802.11n-20)

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 50 μ H/50 Ω line impedance stabilization network (LISN).

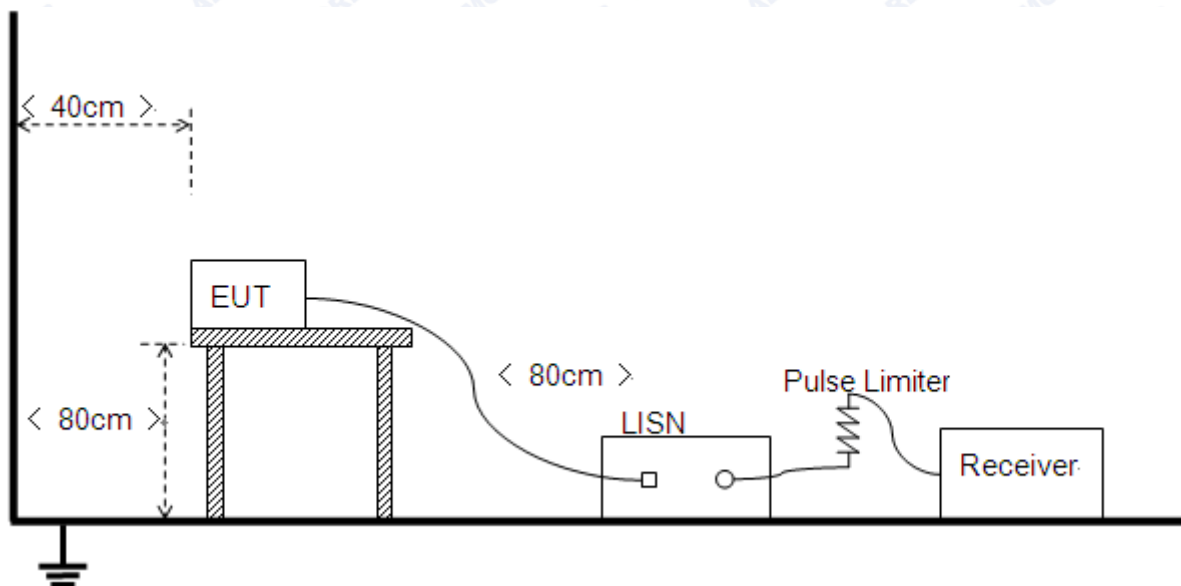
Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
5 - 30	60	50

NOTE:

- The lower limit shall apply at the band edges.
- The limit decreases linearly with the logarithm of the frequency in the range 0.15 - 0.50MHz.

2.7.2 Test Description

A. 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.



B. Equipments List:

Please reference ANNEX A(1.5).

2.1.1 Test Result

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

A. Test setup:

N.A

B. Test Plots:

N.A



2.8 Radiated Emission

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

Note:

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.

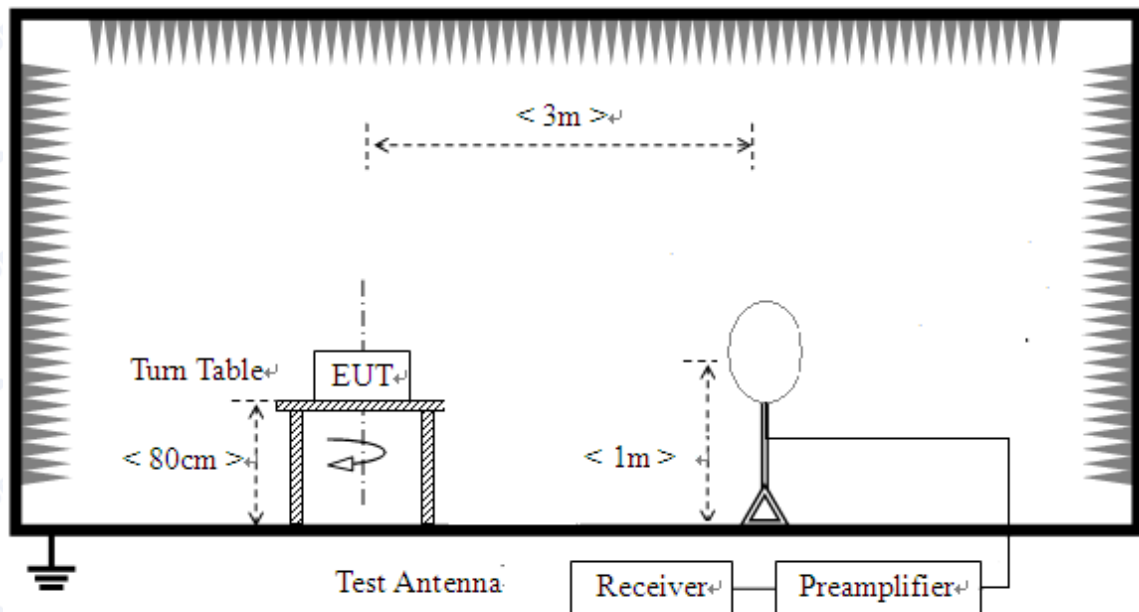
For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK)

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)

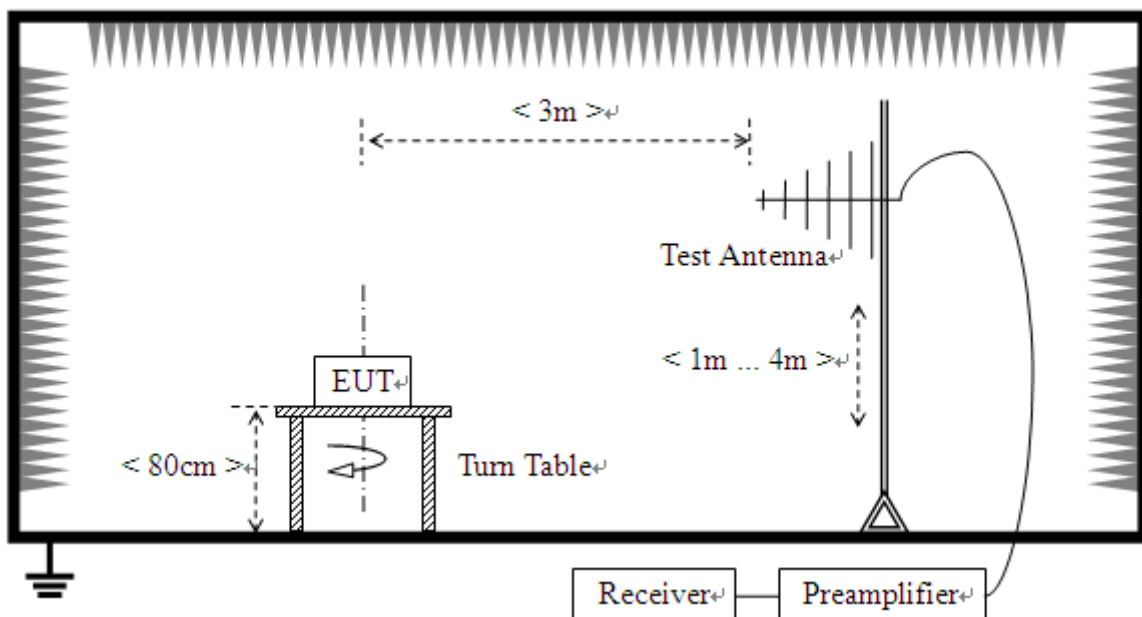
2.8.2 Test Description

A. Test Setup:

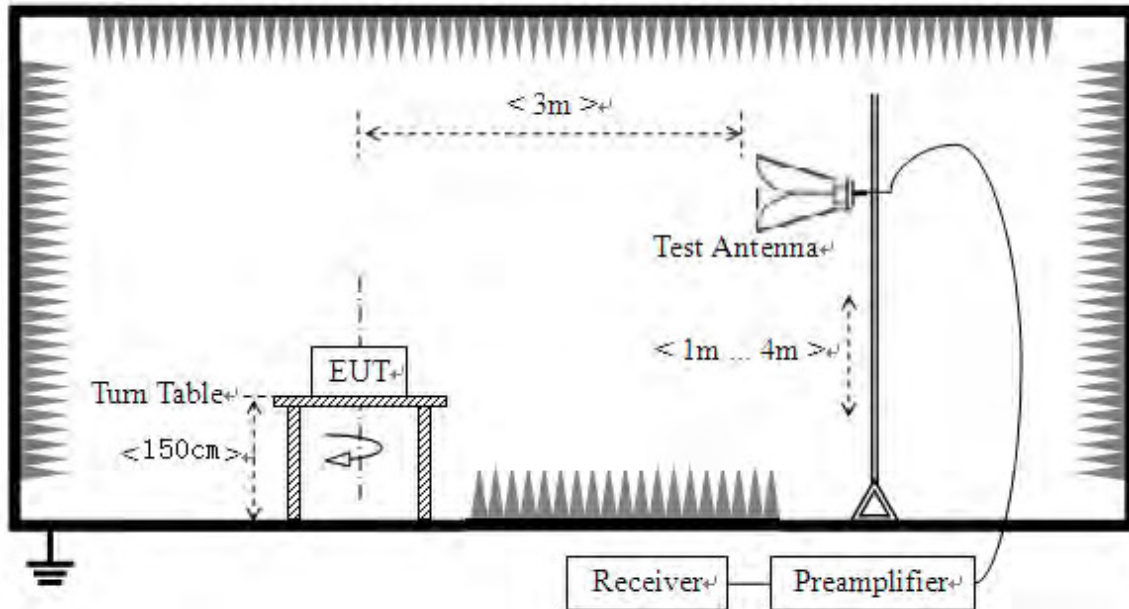
- 1) For radiated emissions from 9kHz to 30MHz



- 2) For radiated emissions from 30MHz to 1GHz



3) For radiated emissions above 1GHz



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.

B. Equipments List:

Please reference ANNEX A(1.5).

2.8.3 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:

$$E \text{ [dB}\mu\text{V/m]} = U_R + A_T + A_{\text{Factor}} \text{ [dB]}; A_T = L_{\text{Cable loss}} \text{ [dB]} - G_{\text{preamp}} \text{ [dB]}$$

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.

The low frequency, which started from 9KHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

**2.8.3.1 802.11b Test mode****A. Test Plots for the Whole Measurement Frequency Range:**Plots for Channel = 1

Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	34.90	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
203.605	34.30	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
384.493	35.48	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2303.561	45.53	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
9353.810	47.51	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
16005.783	50.25	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre. (MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	31.71	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
180.538	27.67	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
407.559	25.30	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2338.776	46.56	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5394.399	46.24	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
9113.475	47.31	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



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Plot for Channel = 6



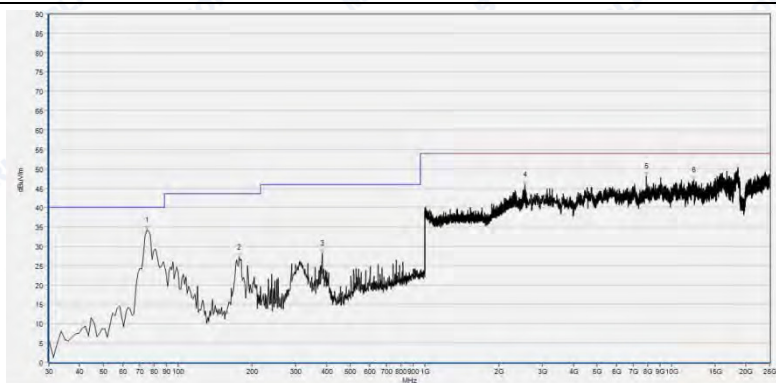
Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
76.133	28.32	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
173.254	33.75	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
360.213	31.28	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1920.048	40.10	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5634.734	46.76	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
12188.943	48.13	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



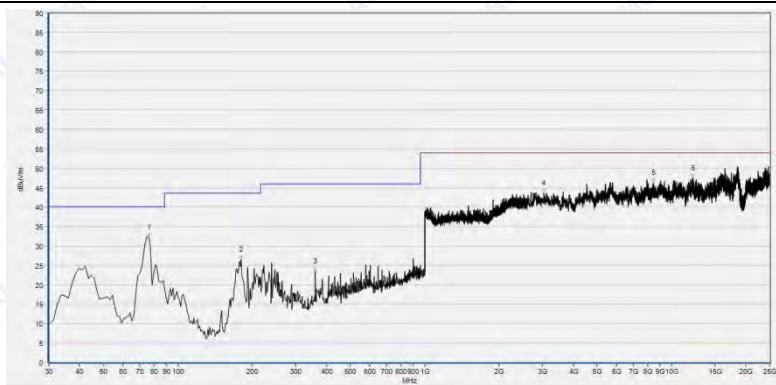
Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	35.11	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
176.896	28.94	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
539.887	29.45	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2521.248	45.35	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
7924.023	46.86	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11749.009	48.23	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

Plot for Channel = 11

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	34.26	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
176.896	27.07	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
384.493	28.23	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2543.017	45.98	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7919.949	48.08	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
12278.560	47.12	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



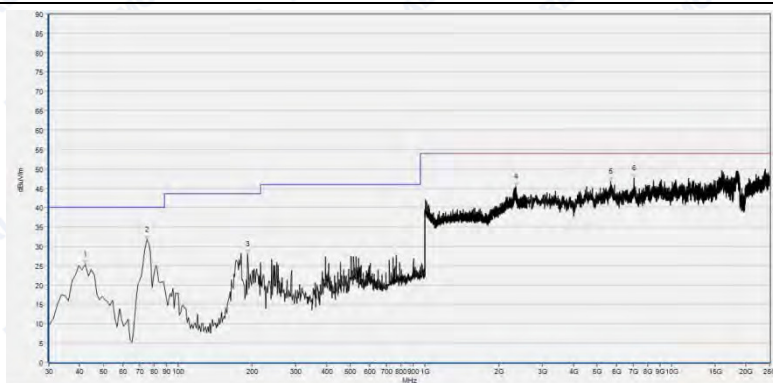
Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
76.133	32.12	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
180.538	26.42	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
360.213	23.53	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
3044.008	43.52	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
8469.867	46.24	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
12197.090	47.38	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)

**2.8.3.2 802.11g Test mode****A. Test Plots for the Whole Measurement Frequency Range:**Plots for Channel = 1

Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
76.133	29.16	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
173.254	33.52	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
360.213	30.86	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2779.233	45.45	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
5703.983	47.23	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
16001.709	48.70	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
42.140	25.24	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
74.919	31.61	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
191.464	27.92	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
2336.855	45.34	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
5675.468	46.78	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
7031.933	47.61	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



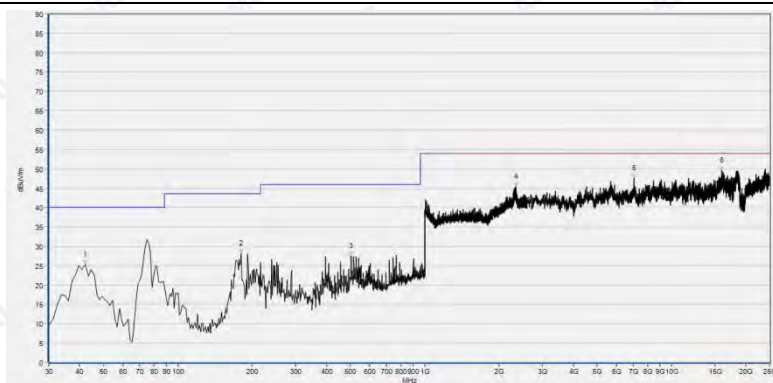
REPORT No.: SZ16080140W01

Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	34.59	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
240.025	24.51	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1950.140	40.82	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
3341.371	44.74	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7023.786	46.18	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
12135.988	47.67	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
42.140	25.24	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
180.538	28.16	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
503.467	27.52	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2336.855	45.34	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
7031.933	47.61	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
15997.636	49.62	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



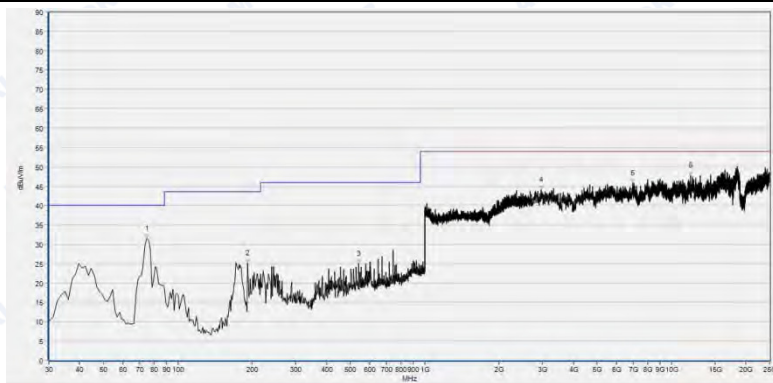
REPORT No.: SZ16080140W01

Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	24.81	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
173.254	33.84	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
360.213	31.42	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
1472.509	40.14	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
2982.906	44.23	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
10160.356	47.39	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
74.919	31.57	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
191.464	25.14	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
539.887	24.95	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2962.539	44.01	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
6954.537	45.81	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
11928.241	47.73	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

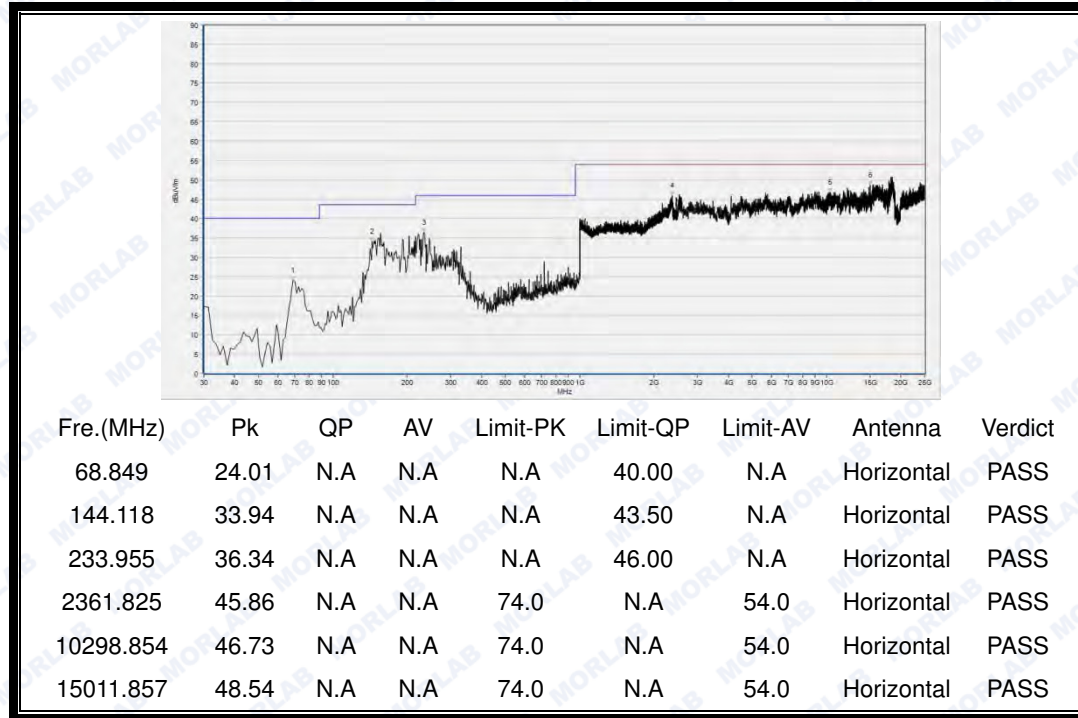
(Antenna Vertical, 30MHz to 25GHz)



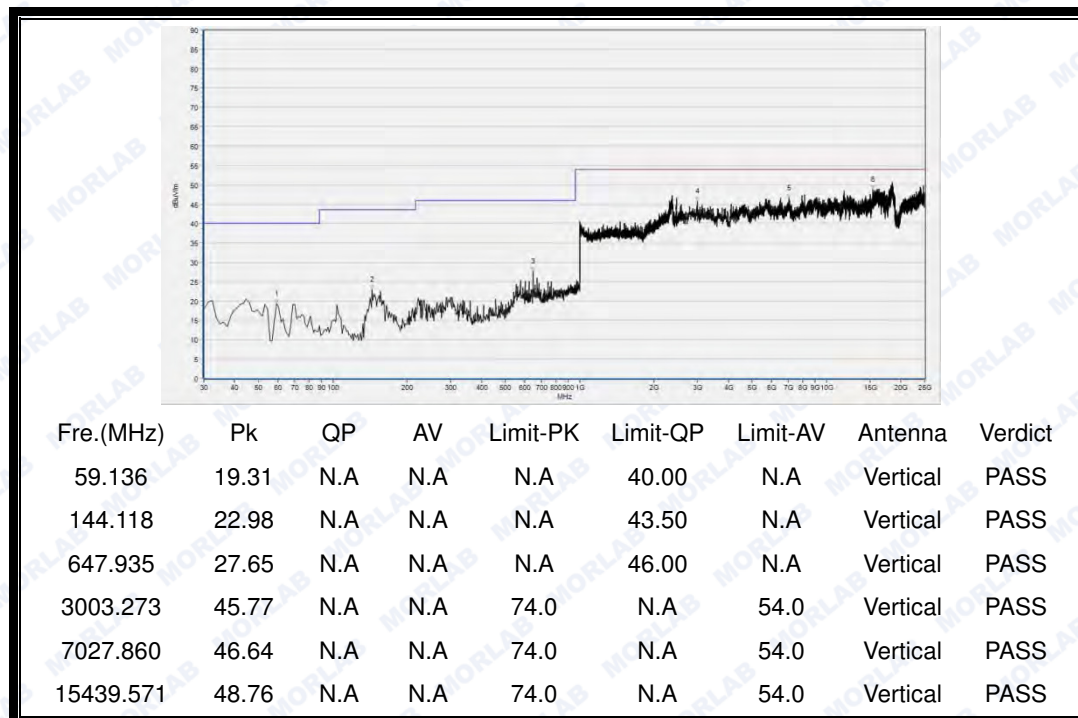
2.8.3.3 802.11n-20MHz Test mode

A. Test Plots for the Whole Measurement Frequency Range:

Plots for Channel = 1



(Antenna Horizontal, 30MHz to 25GHz)



(Antenna Vertical, 30MHz to 25GHz)



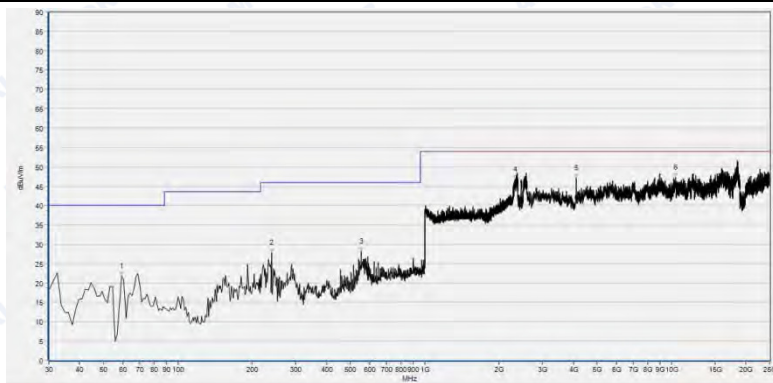
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Plot for Channel = 6



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
156.258	36.21	N.A	N.A	N.A	43.50	N.A	Horizontal	PASS
233.955	36.34	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
719.562	28.83	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2361.825	45.86	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
6506.456	45.18	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
15011.857	48.54	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
59.136	21.74	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
240.025	27.81	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
552.028	28.17	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2319.568	46.69	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
4103.110	47.08	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
10359.956	47.20	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



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Plot for Channel = 11



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
70.063	27.41	N.A	N.A	N.A	40.00	N.A	Horizontal	PASS
240.025	37.77	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
647.935	29.53	N.A	N.A	N.A	46.00	N.A	Horizontal	PASS
2368.868	49.53	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
7084.888	46.64	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS
15965.048	50.18	N.A	N.A	74.0	N.A	54.0	Horizontal	PASS

(Antenna Horizontal, 30MHz to 25GHz)



Fre.(MHz)	Pk	QP	AV	Limit-PK	Limit-QP	Limit-AV	Antenna	Verdict
44.568	22.03	N.A	N.A	N.A	40.00	N.A	Vertical	PASS
156.258	23.10	N.A	N.A	N.A	43.50	N.A	Vertical	PASS
600.588	27.40	N.A	N.A	N.A	46.00	N.A	Vertical	PASS
2365.026	46.67	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
4103.110	47.04	N.A	N.A	74.0	N.A	54.0	Vertical	PASS
12144.135	48.21	N.A	N.A	74.0	N.A	54.0	Vertical	PASS

(Antenna Vertical, 30MHz to 25GHz)



ANNEX A GENERAL INFORMATION

1.1 Identification of the Responsible Testing Laboratory

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

1.2 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

1.3 Facilities and Accreditations

Shenzhen Morlab Communications Technology Co., Ltd. Morlab Laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L3572.

All measurement facilities used to collect the measurement data are located at FL.1, 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 registration number is 695796.

1.4 Maximum measurement uncertainty

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

Measurements	Frequency	Uncertainty
Conducted emissions	9KHz~30MHz	2.44dB
Radiated emissions	30MHz~200MHz	2.93
	200MHz~1000MHz	2.95
	1GHz~18GHz	2.26
	18GHz~40GHz	1.94



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

1.5 Test Equipments Utilized

1.5.1 Conducted Test Equipments

Conducted Test Equipment						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
1	Spectrum Analyzer	MY45101810	E4407B	Agilent	2016.03.02	2017.03.01
2	USB Wideband Power Sensor	MY54210011	U2021XA	Agilent	2016.03.02	2017.03.01
3	EXA Signal Analyzer	MY53470838	N9010A	Agilent	2016.03.02	2017.03.01
4	RF cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
5	Attenuator	(n.a.)	10dB	Resnet	N/A	N/A
6	SMA connector Note	CN01	RF03	HUBER-SUHNER	N/A	N/A
Note: The SMA antenna connector is soldered on the PCB board in order to perform conducted tests and this SMA antenna connector is listed in the equipment list.						

1.5.2 Radiated Test Equipments

Radiated Test Equipments						
No.	Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal.Due Date
1	System Simulator	GB45360846	8960-E5515C	Agilent	2016.03.02	2017.03.01
2	Receiver	MY54130016	N9038A	Agilent	2016.03.02	2017.03.01
3	Test Antenna - Bi-Log	N/A	VULB9163	Schwarzbeck	2016.03.02	2017.03.01
4	Test Antenna - Horn	9170C-531	BBHA9170	Schwarzbeck	2016.03.02	2017.03.01
5	Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2016.03.02	2017.03.01
6	Test Antenna - Horn	71688	BBHA 9120D	Schwarzbeck	2016.03.02	2017.03.01
7	Coaxial cable(N male) (30MHz-26GHz)	CB02	EMC02	Morlab	N/A	N/A
8	Coaxial cable(N male) (30MHz-26GHz)	CB03	EMC03	Morlab	N/A	N/A



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9	1-18GHz pre-Amplifier	MA02	TS-PR18	Rohde& Schwarz	2016.03.02	2017.03.01
10	18-26.5GHz pre-Amplifier	MA03	TS-PR18	Rohde& Schwarz	2016.03.02	2017.03.01

1.5.3 Climate Chamber

Climate Chamber

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Climate Chamber	2004012	HL4003T	Yinhe	2016.03.02	2017.03.01

1.5.4 Vibration Table

Vibration Table

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Vibration Table	N/A	ACT2000- S015L	CMI-COM	2016.03.02	2017.03.01

1.5.5 Anechoic Chamber

Anechoic Chamber

No.	Equipment Name	Serial No.	Type	Manufacturer	Cal.Date	Cal.Due Date
1	Anechoic Chamber	N/A	9m*6m*6m	Changning	2016.03.02	2017.03.01

1.5.6 Auxiliary Test Equipment

Auxiliary Test Equipment

No.	Equipment Name	Model No.	Brand Name	Manufacturer	Cal.Date	Cal.Due Date
1	Computer	T430i	Think Pad	Lenovo	N.A	N.A
2	AC Adapter	GSCU2000S 012V24G	GSP	N.A	N.A	N.A

Note: AC adapter rated input: ~ 100-240V, 50/60Hz, 800mA max; rated output: = 12V, 2000mA.

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