REPORT No.: SZ19070427W05

TEST REPORT

APPLICANT	:	Anker Innovations Limited
PRODUCT NAME	:	Nebula Soundbar-Fire TV Edition
MODEL NAME	:	D3000
BRAND NAME	:	NEBULA
FCC ID	:	2AOKB-D3000
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2019-07-31
TEST DATE	:	2019-08-27 to 2019-09-24
ISSUE DATE	:	2019-09-25

Edited by: Zeng Xiaoying (Rapporteur)

Approved by: Peng Huarui (Supervisor)

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MORLAB

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Change History		
Version	**Date**	**Reason for change**
1.0	2019-09-25	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Anker Innovations Limited
Applicant Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong
Manufacturer:	Anker Innovations Limited
Manufacturer Address:	Room 1318-19, Hollywood Plaza, 610 Nathan Road, Mongkok, Kowloon, Hong Kong

1.2. Equipment Under Test (EUT) Description

Product Name:	Nebula Soundbar-Fire TV Edition
Serial No:	(N/A, marked #1 by test site)
Hardware Version:	V0.3
Software Version:	V1.1.13
Equipment type:	WLAN2.4G
Modulation Type:	DSSS, OFDM
Operating Frequency Range:	802.11b/g/ n(HT20): 2.412GHz - 2.472GHz
Antenna Type:	Fixed Internal Antenna
Antenna Gain:	Ant1: 3.21 dBi; Ant2: 1.10dBi
Directional Gain:	6.22 dBi Note 3

Note 1: The EUT contains two modules, and the information of two modules are shown as below. This report recorded the results of WIFI2.4G for the module 2.

Module	Model name
Module 1	ActionsBlue Stack Dual 5.0
Module 2	E9L29Y

Note 2: The EUT has two antennas, all modulation modes support a MIMO function.

Modulation Mode:	TX Function	Relationship between the two output signals
802.11b	1TX	Uncorrelated
802.11g	1TX	Uncorrelated
802.11n	2TX	Correlated

Note 3: According to KDB 662911 D01, the directional gain = G_{ANT} + 10log (N_{ANT}) dBi, where G_{ANT} is the maximum antenna gain in dBi, N_{ANT} is the number of outputs.

Note 4: For conducted test item Peak Power and Power spectral density of each modulation mode, we recorded the test result of two antennas separately, for other conducted test items both of the two antennas were tested separately, we only recorded the worst test result (Ant 2) in this report.

Note 5: All radiation test items for 802.11n modulation mode operate at MIMO mode during the test. Other modulation mode operate at SISO mode, both of the two antennas were tested separately, we only recorded the worst test result (Ant 2) in this report.

Note 5: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant 1nd/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)	BPSK	**6.5**
	QPSK	13/19.5
	16QAM	26/39
	64QAM	52/58.5/65

Note1: The worst-case mode (black bold) 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 (6), Highest Channel (11), Channel (12) and Channel (13) were 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	N/A
2	N/A	Duty Cycle Of Test Signal	Sep 24, 2019	Wang Meng	PASS	No deviation
3	15.247(b)	Maximum Peak and Average Conducted Output Power	Sep 24, 2019	Wang Meng	PASS	No deviation
4	15.247(a)	Bandwidth	Sep 24, 2019	Wang Meng	PASS	No deviation
5	15.247(d)	Conducted Spurious Emission and Band Edge	Sep 24, 2019	Wang Meng	PASS	No deviation
6	15.247(e)	Power spectral density (PSD)	Sep 24&25, 2019	Wang Meng	PASS	No deviation
7	15.207	Conducted Emission	Aug 27, 2019	Lin Jiayong	PASS	No deviation
8	15.247(d)	Restricted Frequency Bands	Aug 29, 2019 Sep 05, 2019	Peng Xuewei	PASS	No deviation
9	15.209, 15.247(d)	Radiated Emission	Aug 28, 2019 Sep 05, 2019	Peng Xuewei	PASS	No deviation

Note1: The tests were performed according to the method of measurements prescribed in ANSIC63.10-2013, KDB558074 D01 v05r02 and KDB594280 D01 v02r01, KDB662911D01v02r01.

Note2: 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 3: 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. 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.

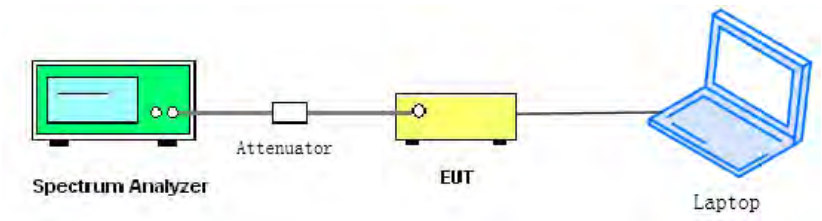
2.2. Duty Cycle Of Test Signal

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

A. Test Set:



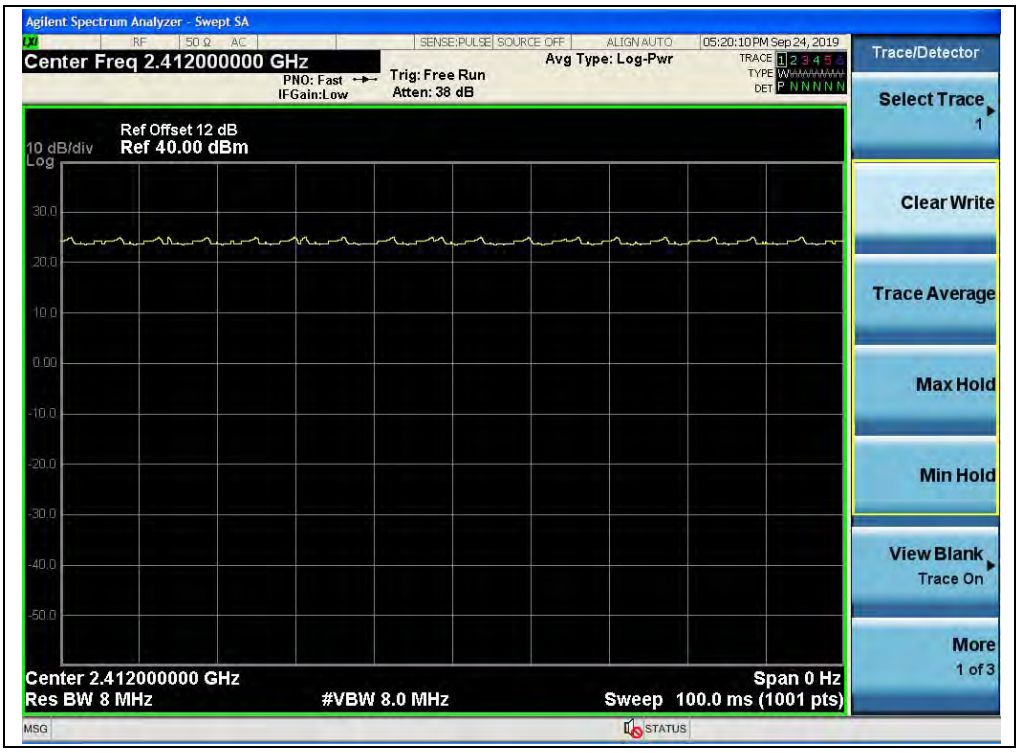
ANSI C63.10 2013 Clause 11.6 was used in order to prove compliance.

2.2.3. Test Result

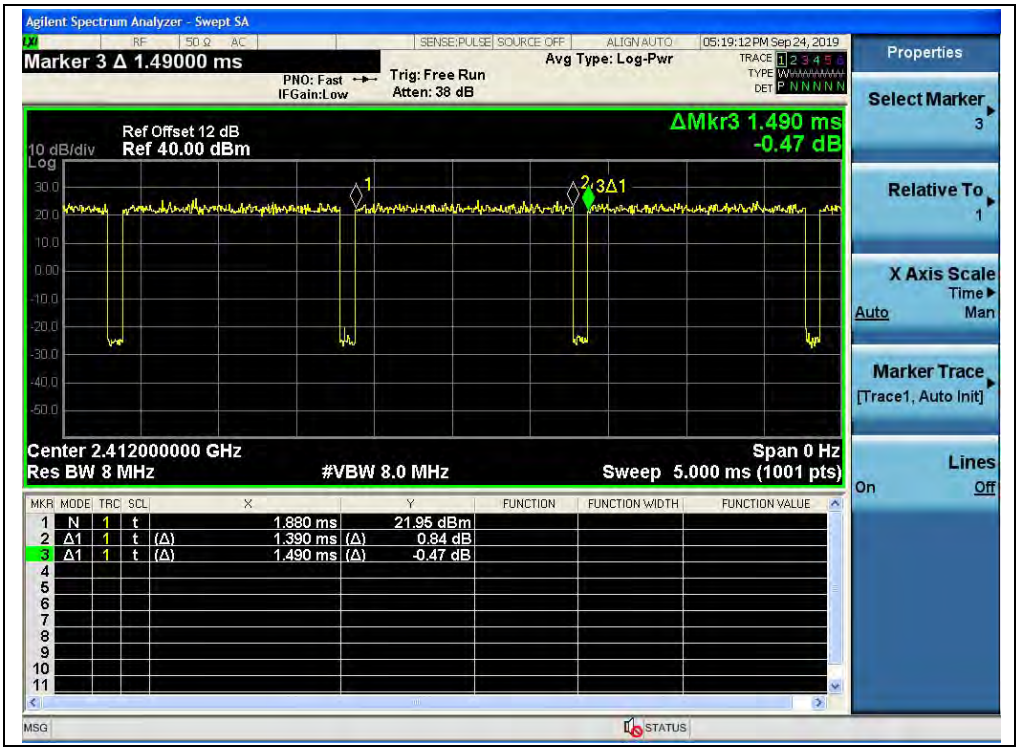
A. Test Verdict:

Test Mode	Duty Cycle (%) (D)	Duty Factor (10*lg[1/D])
802.11b	100.00	0.00
802.11g	93.29	0.30
802.11n(HT20)	92.86	0.32

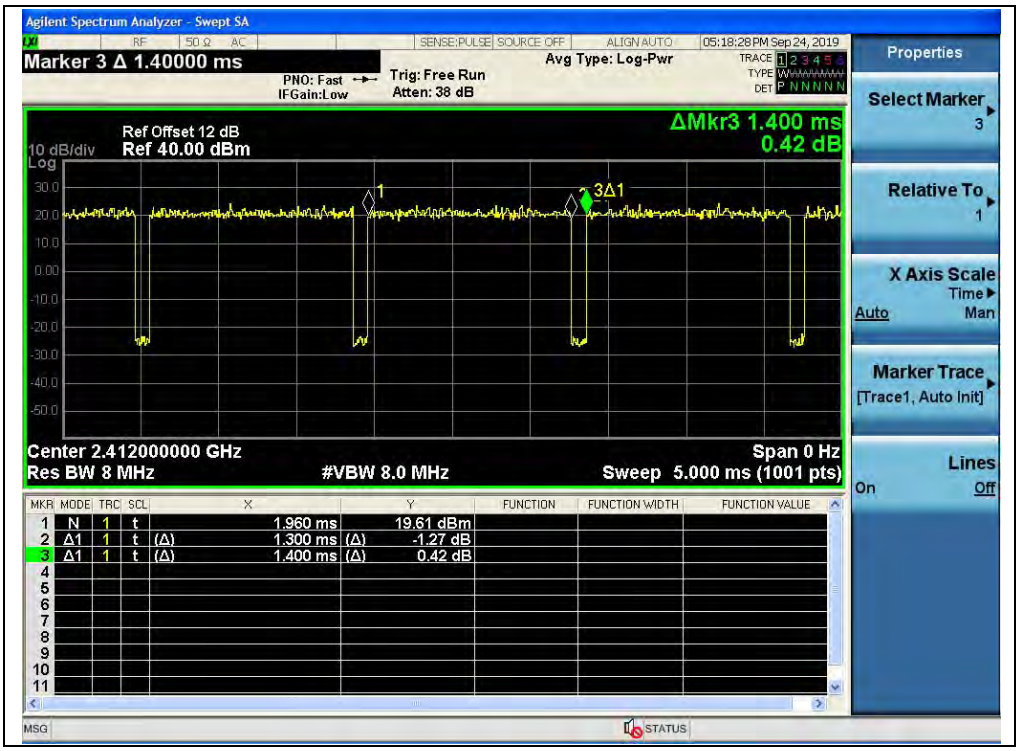
B. Test Plots



(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

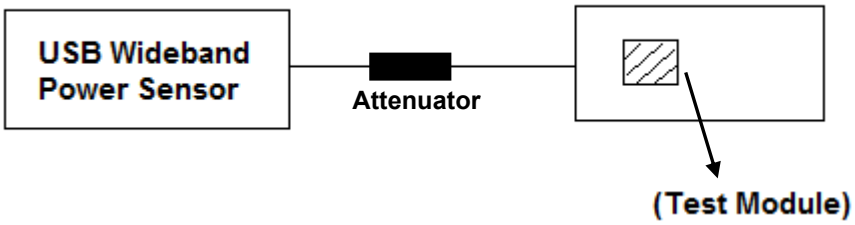
2.3.1. Requirement

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.

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.

2.3.3. Test Result

Maximum Peak Conducted Output Power

802.11b Test Mode

Channel	Frequency (MHz)	Measured Peak Power				Limit (dBm)		Verdict
		ANT 1		ANT 2				
		dBm	W	dBm	W	dBm	W	
1	2412	**21.34**	**0.136**	21.50	0.141	30	1	PASS
6	2437	20.68	0.117	21.24	0.133			PASS
11	2462	20.85	0.122	21.72	0.149			PASS
12	2467	21.03	0.127	**21.89**	**0.155**			PASS
13	2472	21.05	0.127	21.79	0.151			PASS

802.11g Test mode

Channel	Frequency (MHz)	Measured Peak Power				Limit (dBm)		Verdict
		ANT 1		ANT 2				
		dBm	W	dBm	W	dBm	W	
1	2412	23.42	0.220	23.77	0.238	30	1	PASS
6	2437	**23.46**	**0.222**	23.94	0.248			PASS
11	2462	23.15	0.207	**24.09**	**0.256**			PASS
12	2467	23.25	0.211	24.03	0.253			PASS
13	2472	23.04	0.201	24.05	0.254			PASS

802.11n (HT20) Test mode

Channel	Frequency (MHz)	Measured Peak Power (dBm)		Total Power (W)	Total Power (dBm)	Limit		Verdict
		ANT 1	ANT 2			dBm	W	
1	2412	23.83	23.88	**0.486**	**26.87**	29.78	0.951	PASS
6	2437	23.53	23.75	0.463	26.65			PASS
11	2462	23.30	23.90	0.459	26.62			PASS
12	2467	23.19	23.93	0.456	26.59			PASS
13	2472	23.12	23.89	0.450	26.53			PASS
Note: Directional gain = 3.21dBi +10log(2) = 6.22dBi >6dBi, shall be reduced to 30-(6.22-6) = 29.78dBm.								

Maximum Average Conducted Output Power

802.11b Test Mode

Channel	Average Power							Limit		Verdict
	Measured		Duty Factor	Duty factor Calculated						
	ANT 1	ANT 2		ANT 1		ANT 2				
	dBm	dBm		dBm	W	dBm	W	dBm	W	
1	19.40	19.45	0.00	**19.40**	**0.087**	19.45	0.088	30	1	PASS
6	18.78	19.17		18.78	0.076	19.17	0.083			PASS
11	18.80	19.60		18.80	0.076	19.60	0.091			PASS
12	18.87	19.86		18.87	0.077	**19.86**	**0.097**			PASS
13	18.89	19.73		18.89	0.077	19.73	0.094			PASS

802.11g Test mode

Channel	Average Power							Limit		Verdict
	Measured		Duty Factor	Duty factor Calculated						
	ANT 1	ANT 2		ANT 1		ANT 2				
	dBm	dBm		dBm	W	dBm	W	dBm	W	
1	17.00	17.64	0.30	17.30	0.054	17.94	0.062	30	1	PASS
6	17.05	17.73		**17.35**	**0.054**	18.03	0.064			PASS
11	16.90	18.42		17.20	0.052	**18.72**	**0.074**			PASS
12	16.96	18.34		17.26	0.053	18.64	0.073			PASS
13	16.82	18.36		17.12	0.052	18.66	0.073			PASS

802.11n (HT20) Test mode

Channel	Average Power					Limit		Verdict
	Measured		Duty Factor	Total Power with Duty Factor				
	ANT 1	ANT 2						
	dBm	dBm		W	dBm	dBm	W	
1	15.96	16.06	0.32	**0.086**	**19.34**	29.78	0.951	PASS
6	15.42	15.95		0.080	19.03			PASS
11	15.18	16.42		0.083	19.18			PASS
12	15.13	16.57		0.084	19.24			PASS
13	15.12	16.60		0.084	19.25			PASS
Note: Directional gain = 3.21dBi +10log(2) = 6.22dBi >6dBi, shall be reduced to 30-(6.22-6) = 29.78dBm.								

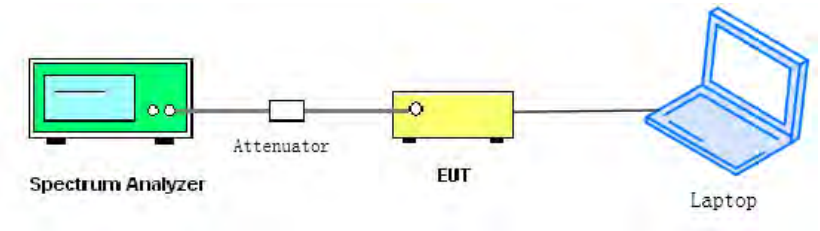
2.4. Bandwidth

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

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.

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	9.059	≥500	PASS
6	2437	9.065	≥500	PASS
11	2462	9.096	≥500	PASS
12	2467	8.084	≥500	PASS
13	2472	9.089	≥500	PASS

B. Test Plots

(Channel 1, 2412MHz, 802.11b)

(Channel 6, 2437 MHz, 802.11b)

(Channel 11, 2462 MHz, 802.11b)

(Channel 12, 2467 MHz, 802.11b)

(Channel 13, 2472MHz, 802.11b)

802.11g Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	15.09	≥500	PASS
6	2437	15.09	≥500	PASS
11	2462	15.10	≥500	PASS
12	2467	15.11	≥500	PASS
13	2472	15.05	≥500	PASS

B. Test Plots:

(Channel 1, 2412MHz, 802.11g)

(Channel 6, 2437 MHz, 802.11g)

(Channel 11, 2462 MHz, 802.11g)

(Channel 12, 2467 MHz, 802.11g)

(Channel 13, 2472MHz, 802.11g)

802.11n (HT20) Test mode

A. Test Verdict:

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limits(kHz)	Result
1	2412	15.70	≥500	PASS
6	2437	15.69	≥500	PASS
11	2462	15.68	≥500	PASS
12	2467	15.70	≥500	PASS
13	2472	16.52	≥500	PASS

B. Test Plots:

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

(Channel 6, 2437MHz, 802.11n (HT20))

(Channel 11, 2462MHz, 802.11n (HT20))

(Channel 12, 2467MHz, 802.11n (HT20))

(Channel 13, 2472MHz, 802.11n (HT20))

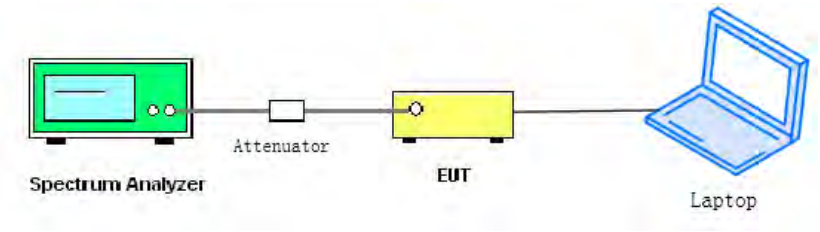
2.5. Conducted Spurious Emissions and Band Edge

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

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.

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	-37.98	9.92	-10.08	PASS
6	2437	-38.95	10.15	-9.85	PASS
11	2462	-38.76	10.33	-9.67	PASS
12	2467	-38.83	10.82	-9.18	PASS
13	2472	-38.75	10.82	-9.18	PASS

B. Test Plots:

(Channel = 1, 30MHz to 25GHz)

(Band Edge, Channel = 1)

(Channel = 6, 30MHz to 25GHz)

(Channel = 11, 30MHz to 25GHz)

(Band Edge, Channel = 11)

(Channel = 12, 30MHz to 25GHz)

(Channel = 13, 30MHz to 25GHz)

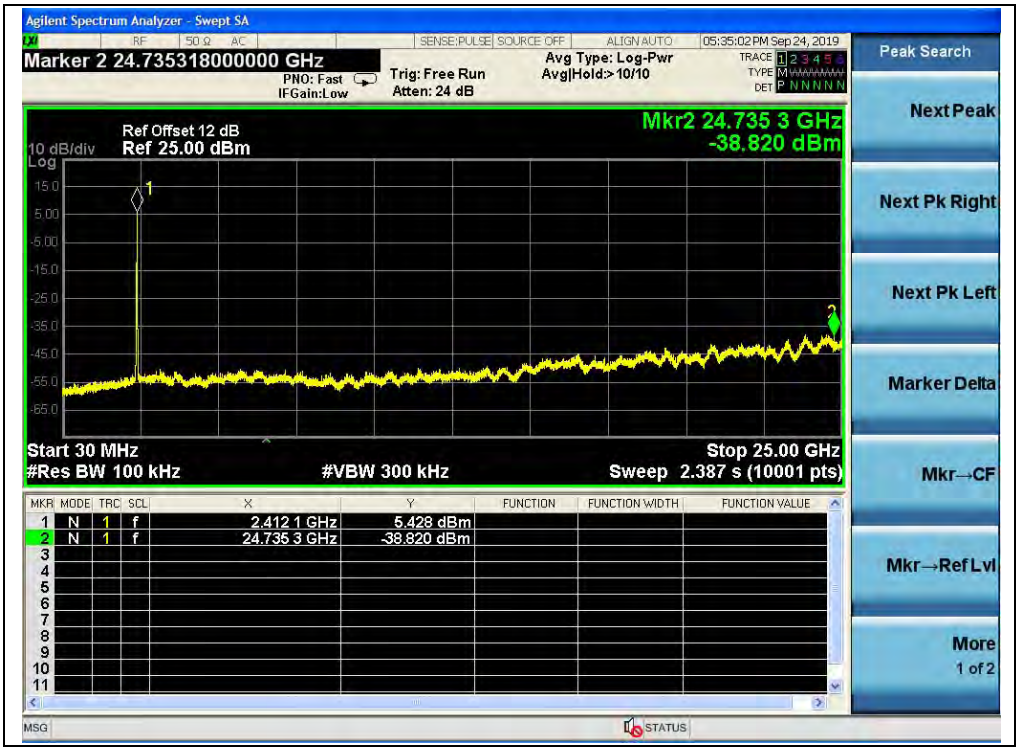
(Band Edge, Channel = 13)

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	-38.82	5.43	-14.57	PASS
6	2437	-39.06	5.76	-14.24	PASS
11	2462	-38.64	6.56	-13.44	PASS
12	2467	-39.24	5.61	-14.39	PASS
13	2472	-39.12	6.40	-13.60	PASS

B. Test Plots:



(Channel = 1, 30MHz to 25GHz)

(Band Edge, Channel = 1)

(Channel = 6, 30MHz to 25GHz)

(Channel = 11, 30MHz to 25GHz)

(Band Edge, Channel = 11)

(Channel = 12, 30MHz to 25GHz)

(Channel = 13, 30MHz to 25GHz)

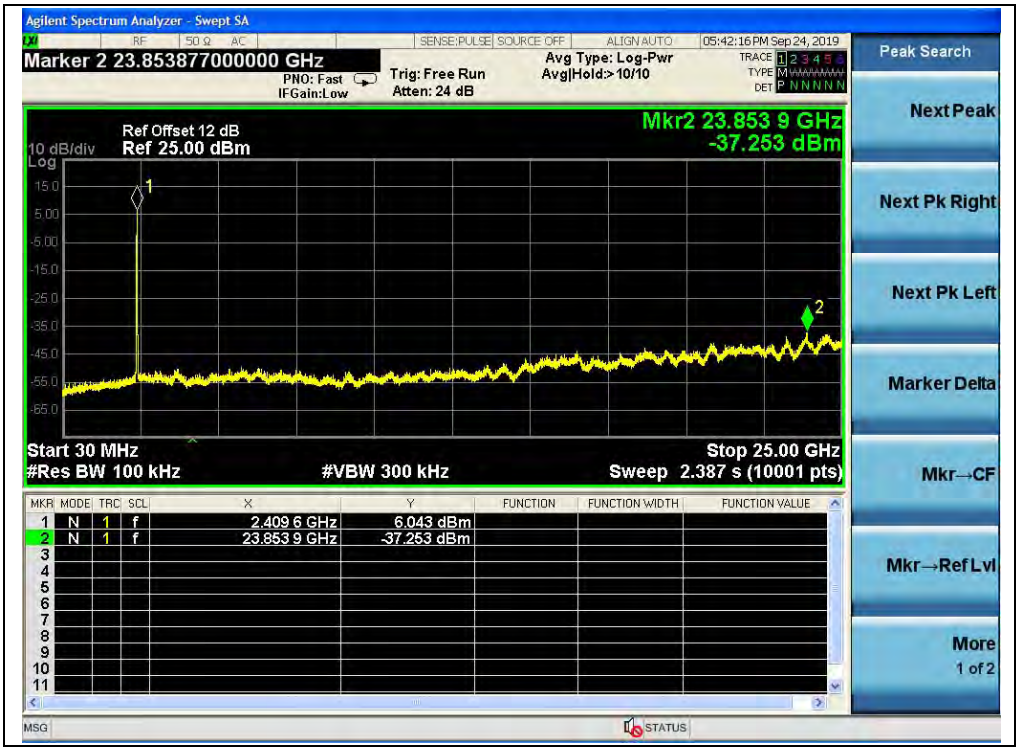
(Band Edge, Channel = 13)

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	-37.25	6.04	-13.96	PASS
6	2437	-36.62	3.53	-16.47	PASS
11	2462	-38.97	5.47	-14.53	PASS
12	2467	-38.91	4.09	-15.91	PASS
13	2472	-38.06	5.03	-14.97	PASS

B. Test Plots:



(Channel = 1, 30MHz to 25GHz)

(Band Edge, Channel = 1)

(Channel = 6, 30MHz to 25GHz)

(Channel = 11, 30MHz to 25GHz)

(Band Edge, Channel = 11)

(Channel = 12, 30MHz to 25GHz)

(Channel = 13, 30MHz to 25GHz)

(Band Edge, Channel = 13)

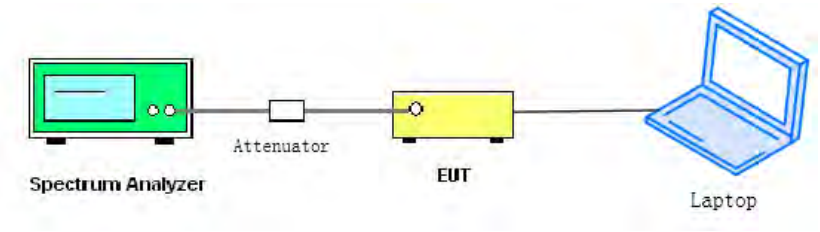
2.6. Power spectral density (PSD)

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

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.

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:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Limit (dBm/3kHz)	Verdict
		ANT 1	ANT 2		
1	2412	4.14	4.52	8	PASS
6	2437	-2.57	-3.33	8	PASS
11	2462	-1.61	-3.88	8	PASS
12	2467	-2.80	-3.07	8	PASS
13	2472	-4.52	-1.36	8	PASS

B. Test Plots:

(Channel = 1, 802.11b, ANT 1)

(Channel = 6, 802.11b, ANT 1)

(Channel = 11, 802.11b, ANT 1)

(Channel = 12, 802.11b, ANT 1)

(Channel = 13, 802.11b, ANT 1)

(Channel = 1, 802.11b, ANT 2)

(Channel = 6, 802.11b, ANT 2)

(Channel = 11, 802.11b, ANT 2)

(Channel = 12, 802.11b, ANT 2)

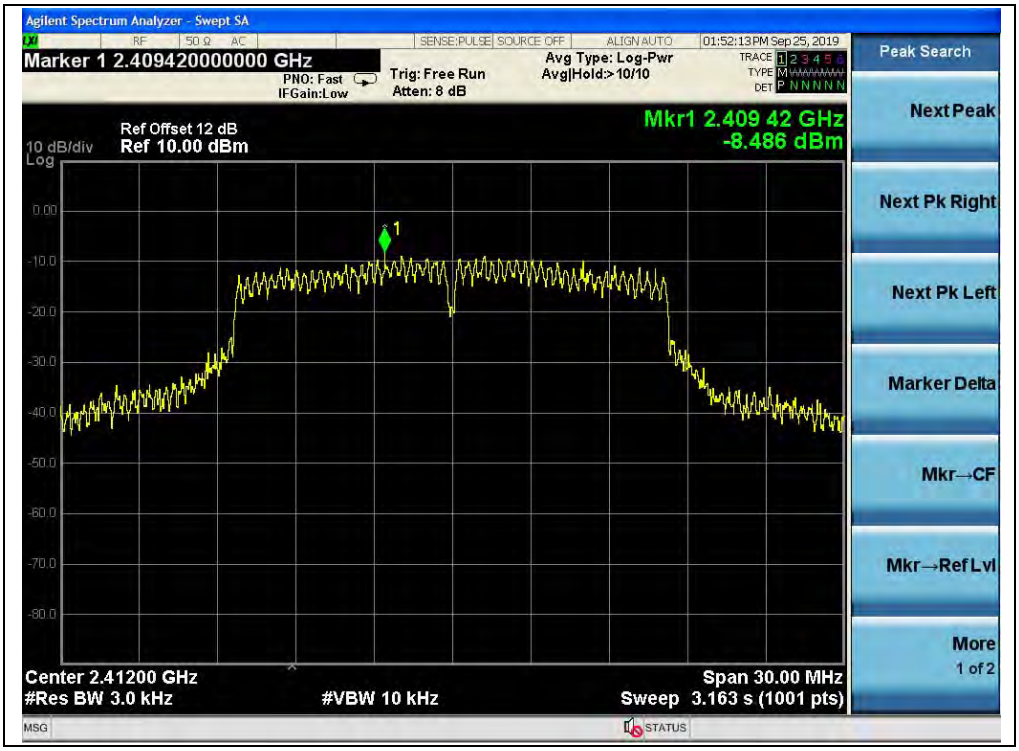
(Channel = 13, 802.11b, ANT 2)

802.11g Test mode

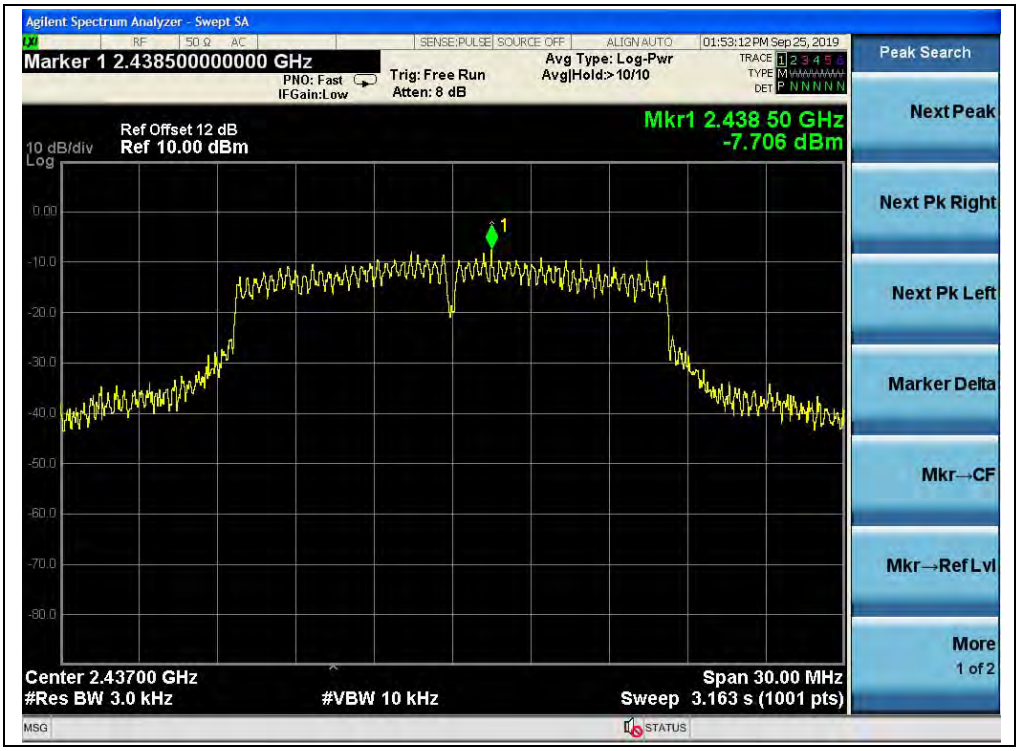
A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Limit (dBm/3kHz)	Verdict
		ANT 1	ANT 2		
1	2412	-8.49	-7.92	8	PASS
6	2437	-7.71	-6.79	8	PASS
11	2462	-8.77	-5.25	8	PASS
12	2467	-7.98	-6.58	8	PASS
13	2472	-8.21	-6.26	8	PASS

B. Test Plots:



(Channel = 1, 802.11g, ANT 1)



(Channel = 6, 802.11g, ANT 1)

(Channel = 11, 802.11g, ANT 1)

(Channel = 12, 802.11g, ANT 1)

(Channel = 13, 802.11g, ANT 1)

(Channel = 1, 802.11g, ANT 2)

(Channel = 6, 802.11g, ANT 2)

(Channel = 11, 802.11g, ANT 2)

(Channel = 12, 802.11g, ANT 2)

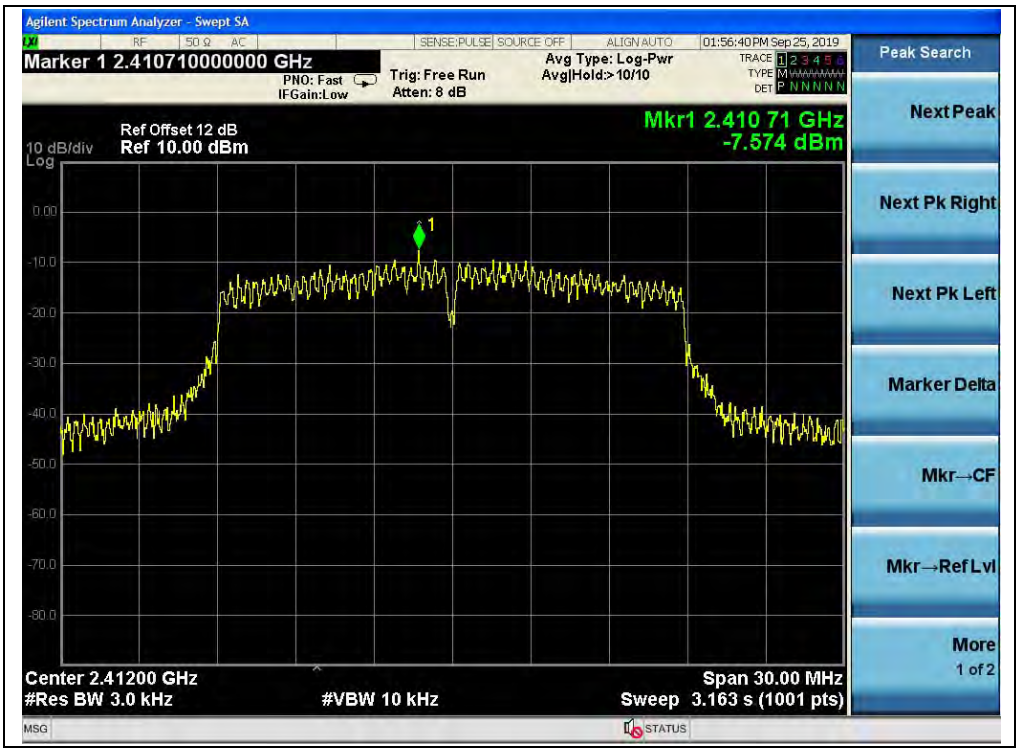
(Channel = 13, 802.11g, ANT 2)

802.11n (HT20) Test mode

A. Test Verdict:

Channel	Frequency (MHz)	Measured PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
		ANT 0	ANT 1			
1	2412	-7.57	-7.91	-4.73	7.78	PASS
6	2437	-8.90	-8.03	-5.43	7.78	PASS
11	2462	-8.54	-7.66	-5.07	7.78	PASS
12	2467	-9.11	-9.13	-6.11	7.78	PASS
13	2472	-7.54	-7.70	-4.61	7.78	PASS
Note: Directional gain = 3.21dBi + 10log(2) = 6.22dBi > 6dBi, so the power limit shall be reduced to 8-(6.22-6) = 7.78dBm.						

B. Test Plots:



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

(Channel = 6, 802.11 n (HT20), ANT 1)

(Channel = 11, 802.11 n (HT20), ANT 1)

(Channel = 12, 802.11 n (HT20), ANT 1)

(Channel = 13, 802.11 n (HT20), ANT 1)

(Channel = 1, 802.11 n (HT20), ANT 2)

(Channel = 6, 802.11 n (HT20), ANT 2)

(Channel = 11, 802.11 n (HT20), ANT 2)

(Channel = 12, 802.11 n (HT20), ANT 2)

(Channel = 13, 802.11 n (HT20), ANT 2)