MEASUREMENT REPORT

FCC PART 15C / WLAN 802.11b/g/n

FCC ID:	2ANOT-205328
IC:	23166-205328
Applicant:	Alliance Laundry Systems LLC
Application Type:	Certification
Product:	Wireless Network Control
Model No.:	205328
Brand Name:	Alliance Laundry Systems
FCC Classification:	Digital Transmission System (DTS)
FCC Rule Part(s):	Part 15 Subpart C (Section 15.247)
ISED Rule(s)	RSS-247 Issue 2, RSS-GEN Issue 5
Test Procedure(s):	ANSI C63.10-2013
Test Date:	May 19 ~ June 03, 2021

Reviewed By: Vincent Yu

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.02

The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Shenzhen) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2105RSZ038-U1	Rev.01	Initial Report	06-05-2021	Valid

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1. GENERAL INFORMATION

1.1. Applicant

Alliance Laundry Systems LLC

221 Shepard Street, PO Box 990, Ripon, WI 54971, United States

1.2. Manufacturer

Alliance Laundry Systems LLC

221 Shepard Street, PO Box 990, Ripon, WI 54971, United States

1.3. Testing Facility

☐	**Test Site – MRT Suzhou Laboratory**	
	Laboratory Location (Suzhou – Wuzhong)	
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China	
	Laboratory Location (Suzhou – SIP)	
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China	
	Laboratory Accreditations	
	A2LA: 3628.01	CNAS: L10551
	FCC: CN1166	ISED: CN0001
	VCCI: R-20025, G-20034, C-20020, T-20020	
☒	**Test Site – MRT Shenzhen Laboratory**	
	Laboratory Location (Shenzhen)	
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China	
	Laboratory Accreditations	
	A2LA: 3628.02	CNAS: L10551
	FCC: CN1284	ISED: CN0105
☐	**Test Site – MRT Taiwan Laboratory**	
	Laboratory Location (Taiwan)	
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)	
	Laboratory Accreditations	
	TAF: L3261-190725	
	FCC: 291082, TW3261	ISED: TW3261

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name	Wireless Network Control
Model No.	205328
Wi-Fi Specification	802.11a/b/g/n-HT20
Power Supply	DC 12V

2.2. Product Specification Subjective to this Report

Frequency Range	802.11b/g/n-HT20: 2412 ~ 2462 MHz
Channel Number	802.11b/g/n-HT20: 11
Type of Modulation	802.11b: DSSS 802.11g/n: OFDM
Data Rate	802.11b: 1/2/5.5/11Mbps 802.11g: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 72.2Mbps

2.3. Working Frequencies for this report

802.11b/g/n-HT20

Channel	Frequency	Channel	Frequency	Channel	Frequency
01	2412 MHz	02	2417 MHz	03	2422 MHz
04	2427 MHz	05	2432 MHz	06	2437 MHz
07	2442 MHz	08	2447 MHz	09	2452 MHz
10	2457 MHz	11	2462 MHz	--	--

2.4. Description of Available Antennas

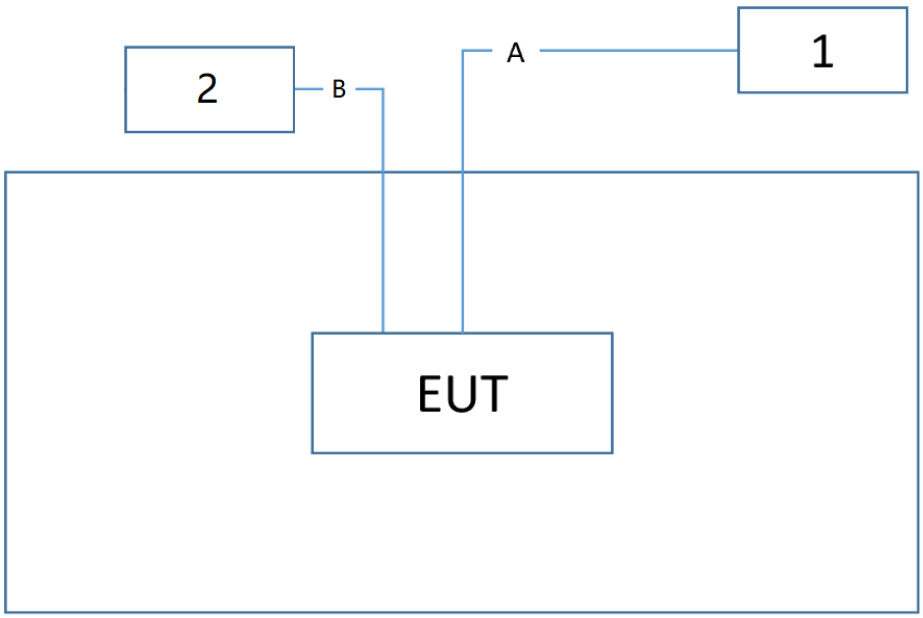
Antenna Type	Frequency Band (MHz)	TX Paths	Max Antenna Gain (dBi)
Dipole Antenna	2412 ~ 2462	1	2

2.5. Test Mode

Test Mode	Mode 1: Transmit by 802.11b (1Mbps)
	Mode 2: Transmit by 802.11g (6Mbps)
	Mode 3: Transmit by 802.11n-HT20 (MCS0)

2.6. Configuration of Test System

Connection Diagram



Cable Type		Cable Description
A	Control Cable	Non shielded, > 10m
B	Power Cable	Non shielded, < 2m

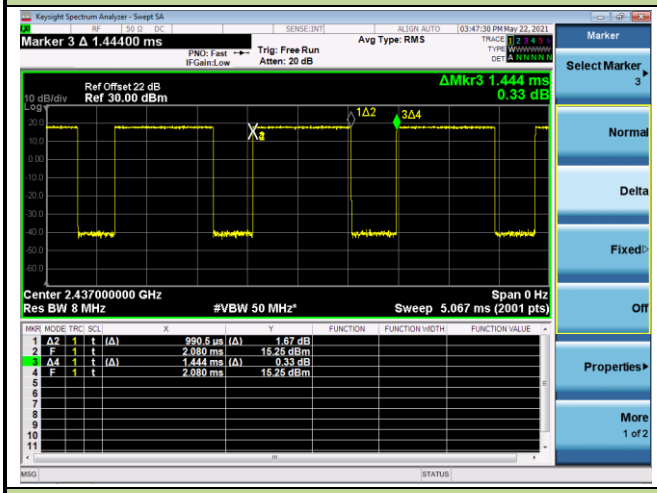
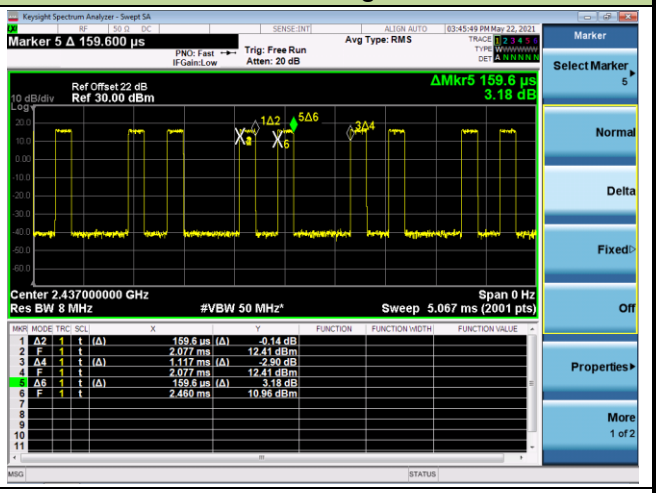
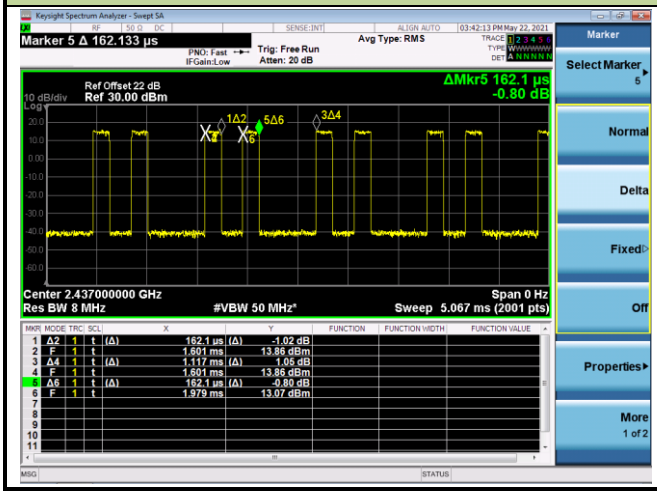
2.7. Test System Details

Product		Manufacturer	Model No.
1	Notebook	HP	EliteBook 735G5
2	DC Power Supply	GWINSTEK	DPS-3303C

2.8. Duty Cycle

The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Duty Cycle
802.11b	68.59%
802.11g	28.58%
802.11n-HT20	29.02%

Duty Cycle (T = Transmission Duration)	
802.11b	802.11g
	
802.11n-HT20	
	

2.9. Description of Test Software

The test utility software used during testing was CC31XX/CC32XX Radio Tool, and the version was 1.0.3.16. Power parameter value refers to operation description.

2.10. Test Environment Condition

Ambient Temperature	15°C ~ 35°C
Relative Humidity	20%RH ~ 75%RH

3. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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."

- The antenna of the device is permanently attached.
- There are no provisions for connection to an external antenna.

Conclusion:

The unit complies with the requirement of §15.203.

4. TEST EQUIPMENT CALIBRATION DATE

Conducted Emission (NS-SR2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESL3	MRTSUE06576	1 year	2021/07/09
ENV216-LV-NETZNACHB	R&S	ENV216	MRTSUE06577	1 year	2021/07/09
ENV216-LV-NETZNACHB	R&S	ENV216	MRTSUE06578	1 year	2021/07/09
Temperature/Humidity Meter	deli	NO.8813	MRTSUE06587	1 year	2021/07/08
Shielding Anechoic Chamber	BOOMWAVE	SR2	MRTSUE06551	5 year	2024/06/04

Radiated Emission (NS-AC1)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cal. Due Date
EMI Test Receiver	R&S	ESR3	MRTSUE06575	1 year	2021/07/09
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2022/03/17
Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	2021/11/08
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06292	1 year	2021/10/24
Broad-Band Horn Antenna	Schwarzbeck	9120D	MRTSUE06572	1 year	2021/07/03
Bilog Period Antenna	Schwarzbeck	VULB 9162	MRTSUE06573	1 year	2021/07/03
Preamplifier	Schwarzbeck	BBV 9721	MRTSUE06121	1 year	2021/06/11
Broadband Coaxial Preamplifier	Schwarzbeck	BBV 9718	MRTSUE06574	1 year	2021/07/13
Anechoic Chamber	BOOMWAVE	AC1	MRTSUE06496	1 year	2021/07/25
Temperature/Humidity Meter	deli	NO.8813	MRTSUE06588	1 year	2021/07/08

Conducted Test Equipment (NS-TR2)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Temperature/Humidity Meter	deli	No.8813	MRTSUE06783	1 year	2022/05/12
USB wideband power sensor	Keysight	U2021XA	MRTSUE06581	1 year	2021/08/20
10dB Attenuator	MVE	10dB	N/A	1 year	2021/08/20
EXA Signal Analyzer	Keysight	N9010A	MRTSUE06195	1 year	2022/03/17
EXA Signal Analyzer	Keysight	N9020A	MRTSUE10065	1 year	2022/03/17

Software	Version	Function
EMI Software	V3	EMI Test Software

5. MEASUREMENT UNCERTAINTY

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

AC Conducted Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 9kHz~150kHz: 3.74dB 150kHz~30MHz: 3.44dB
Radiated Emission Measurement
Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): Horizontal: 30MHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~40GHz: 6.40dB Vertical: 30MHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~40GHz: 6.40dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.78dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.13dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 1.15dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): 0.28%

6. TEST RESULT

6.1. Summary

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.247(a)(2)	RSS-247 [5.2]	6dB Bandwidth	≥ 500kHz	Conducted	Pass	Section 6.2
N/A	RSS-Gen [6.7]	99% Bandwidth	N/A		Pass	
15.247(b)(3)	RSS-247 [5.4(d)]	Output Power	≤ 1Watt & EIRP ≤ 4Watt		Pass	Section 6.3
15.247(e)	RSS-247 [5.2]	Power Spectral Density	≤ 8dBm / 3kHz		Pass	Section 6.4
15.247(d)	RSS-247 [5.5]	Band Edge / Out-of-Band Emissions	≤ 20dBc (Peak)		Pass	Section 6.5
15.205 15.209	RSS-247 [5.5]	General Field Strength (Restricted Bands and Radiated Emission)	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Radiated	Pass	Section 6.6 & 6.7
15.207	RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	N/A	Section 6.8

Notes:

1) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.
2) All modes of operation and data rates were investigated. For radiated emission test, every axis (X, Y, Z) was also verified. The test results shown in the following sections represent the worst-case emissions.
3) “N/A” means that the test item is not applicable, and the details refer to relevant section.

6.2. Occupied Bandwidth Measurement

6.2.1.Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

6.2.2.Test Procedure used

ANSI C63.10-2013 - Section 11.8 (6dB bandwidth)

ANSI C63.10-2013 - Section 6.9.3 (99% bandwidth)

6.2.3.Test Setting

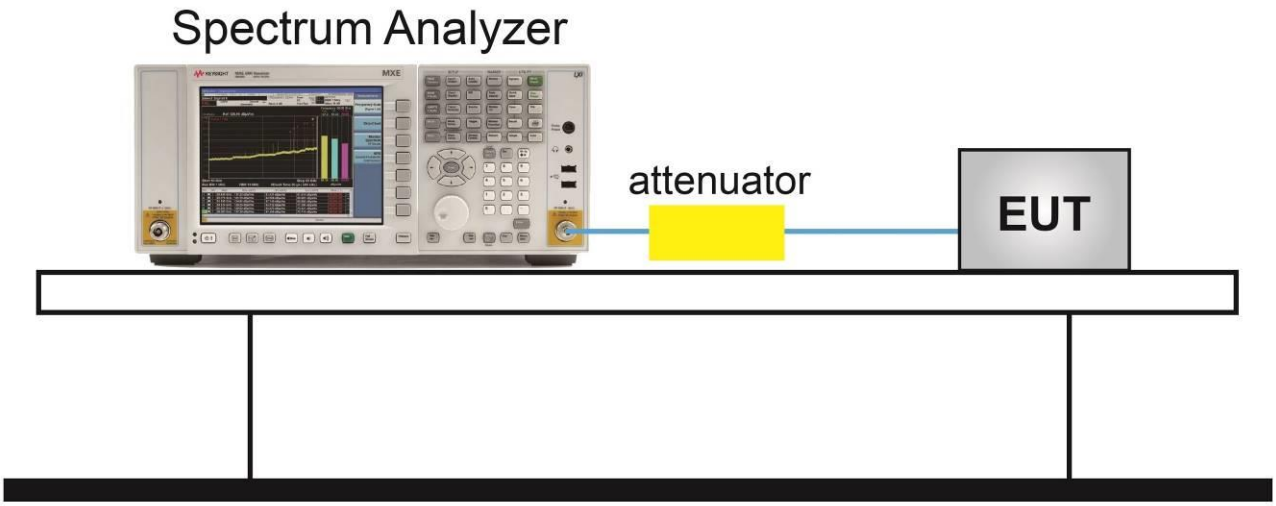
For 6dB bandwidth

1. Set RBW = 100 kHz
2. VBW ≥ 3 × RBW
3. Detector = Peak
4. Trace mode = Max hold
5. Sweep = Auto couple
6. Allow the trace to stabilize
7. Use the *X* dB bandwidth mode with X set to 6 dB

For 99% bandwidth

1. Span = 1.5 times to 5 times the OBW
2. Set RBW = 1% to 5% the OBW
3. VBW ≥ 3 × RBW
4. Detector = Peak
5. Trace mode = Max hold
6. Sweep = Auto couple
7. Allow the trace to stabilize

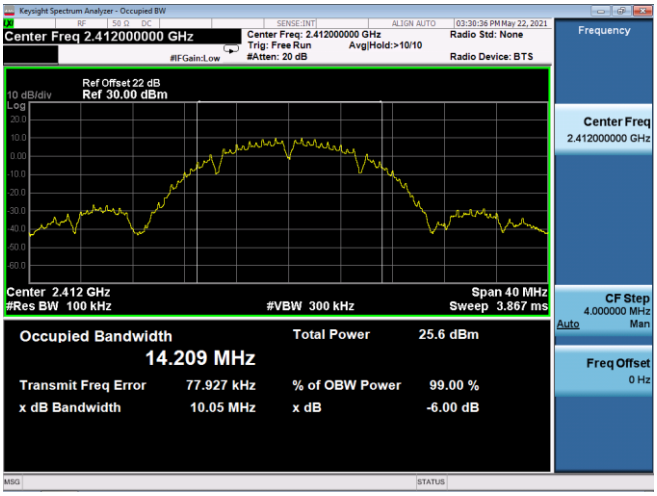
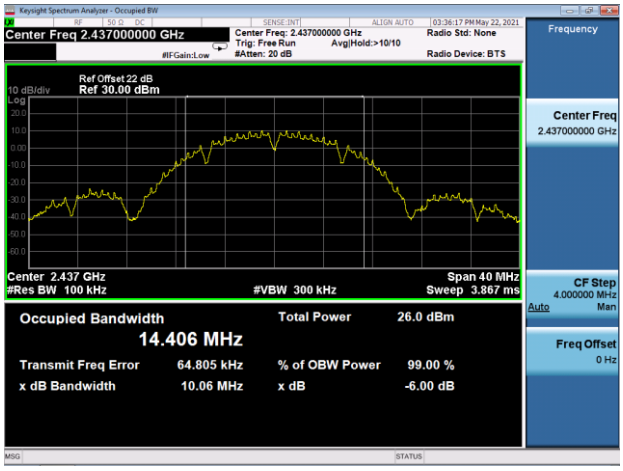
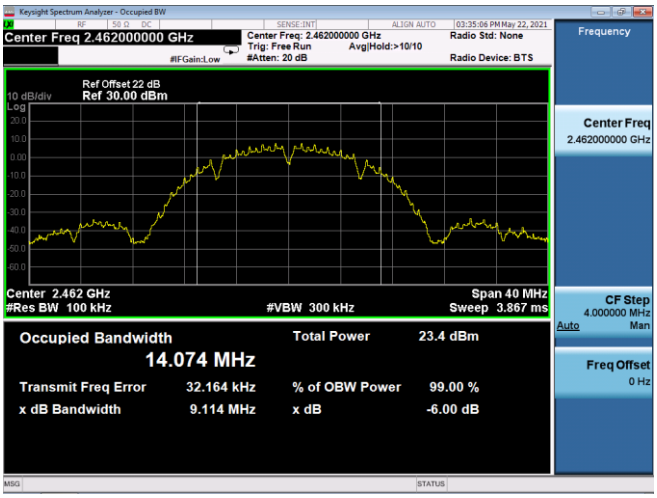
6.2.4.Test Setup

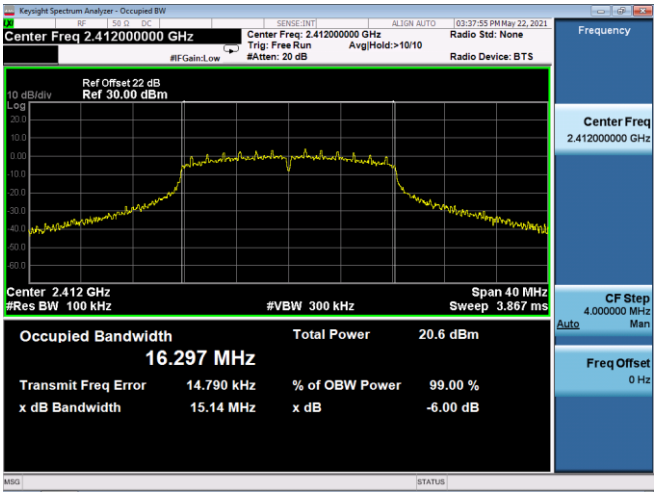
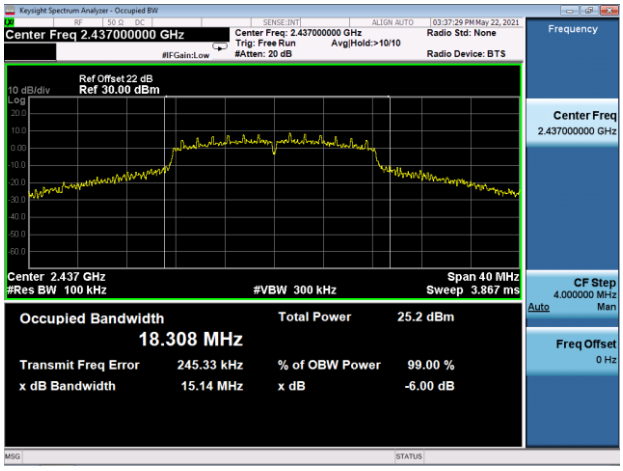


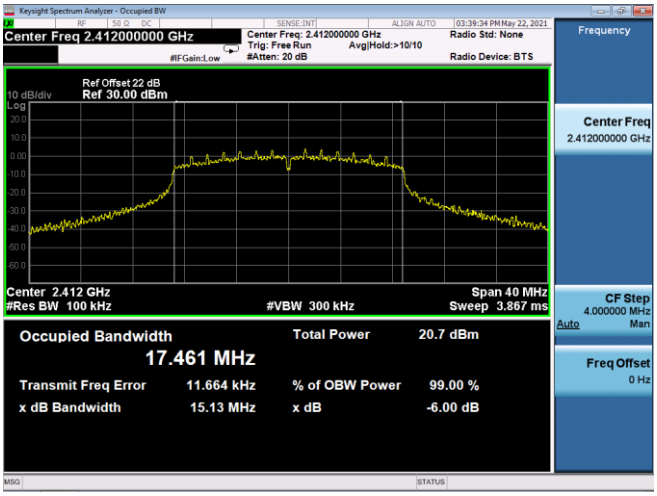
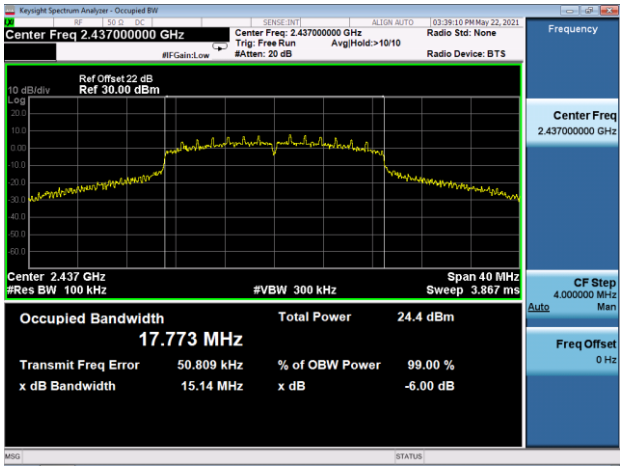
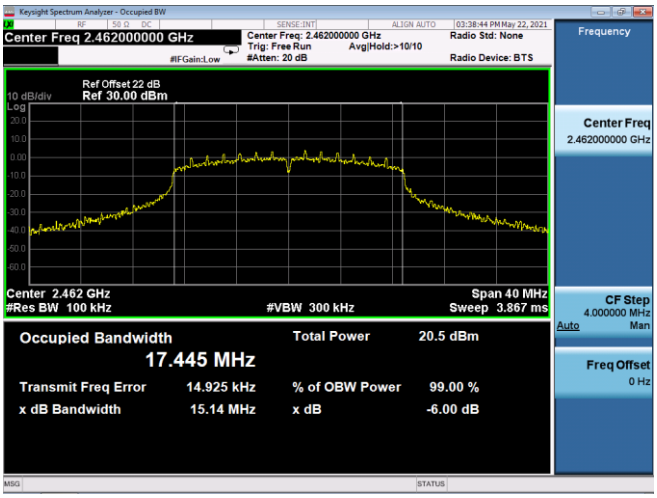
6.2.5.Test Result

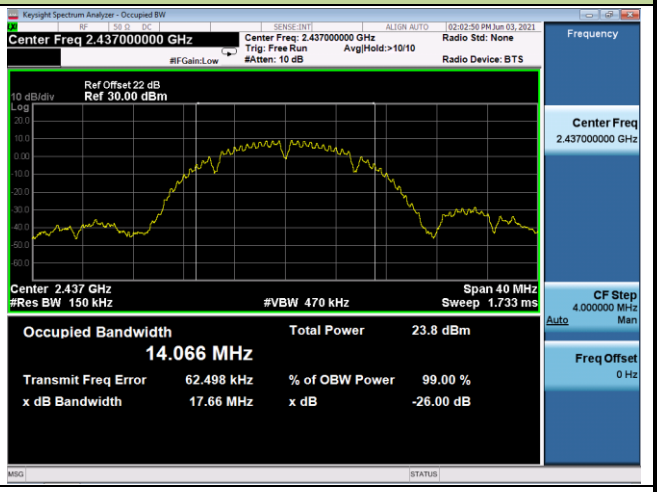
Test Site	NS-TR2	Test Engineer	Flay Yang
Test Date	2021/05/22 ~ 2021/06/03		

Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	99% Bandwidth (MHz)	Result
802.11b	1Mbps	01	2412	10.05	≥ 0.5	14.03	Pass
802.11b	1Mbps	06	2437	10.06	≥ 0.5	14.07	Pass
802.11b	1Mbps	11	2462	9.11	≥ 0.5	14.02	Pass
802.11g	6Mbps	01	2412	15.14	≥ 0.5	16.36	Pass
802.11g	6Mbps	06	2437	15.14	≥ 0.5	17.11	Pass
802.11g	6Mbps	11	2462	15.14	≥ 0.5	16.29	Pass
802.11n-HT20	MCS0	01	2412	15.13	≥ 0.5	17.40	Pass
802.11n-HT20	MCS0	06	2437	15.14	≥ 0.5	17.63	Pass
802.11n-HT20	MCS0	11	2462	15.14	≥ 0.5	17.42	Pass

802.11b 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11g 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	

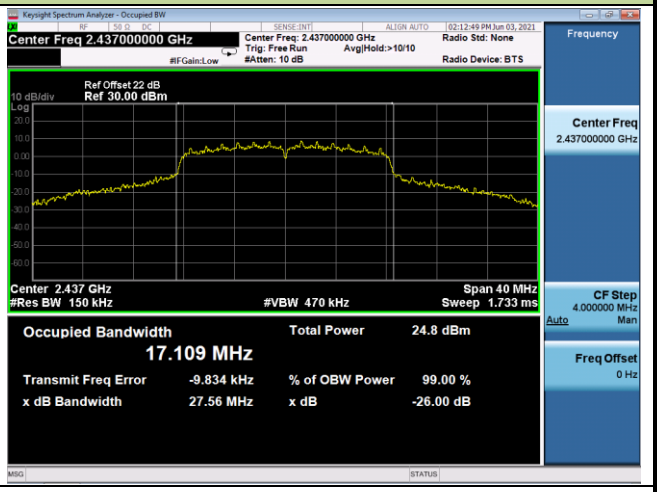
802.11n-HT20 6dB Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11b 99% Bandwidth	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	

802.11g 99% Bandwidth

Channel 01 (2412MHz)

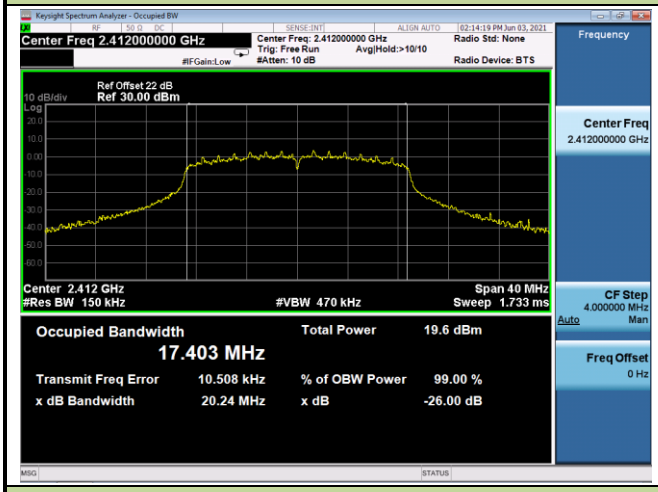
Channel 06 (2437MHz)



Channel 11 (2462MHz)

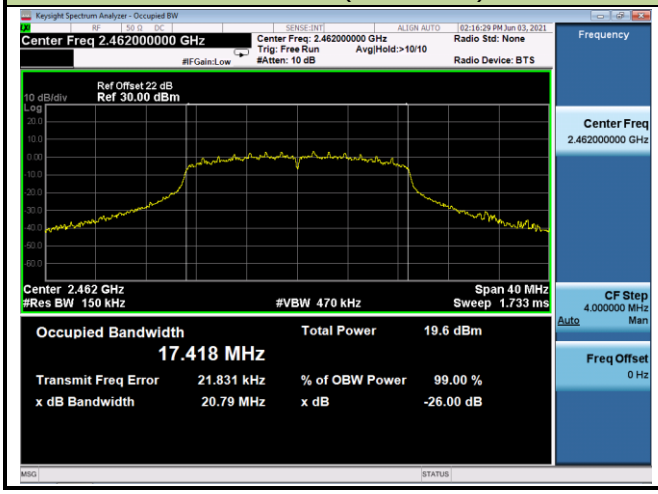
802.11n-HT20 99% Bandwidth

Channel 01 (2412MHz)



Channel 06 (2437MHz)

Channel 11 (2462MHz)



6.3. Output Power Measurement

6.3.1.Test Limit

The maximum out power shall be less 1 Watt (30dBm) and the E.I.R.P shall not exceed 4 Watt (36.02dBm).

6.3.2.Test Procedure Used

ANSI C63.10-2013 Section 11.9.1.3

ANSI C63.10-2013 Section 11.9.2.3.2

6.3.3.Test Setting

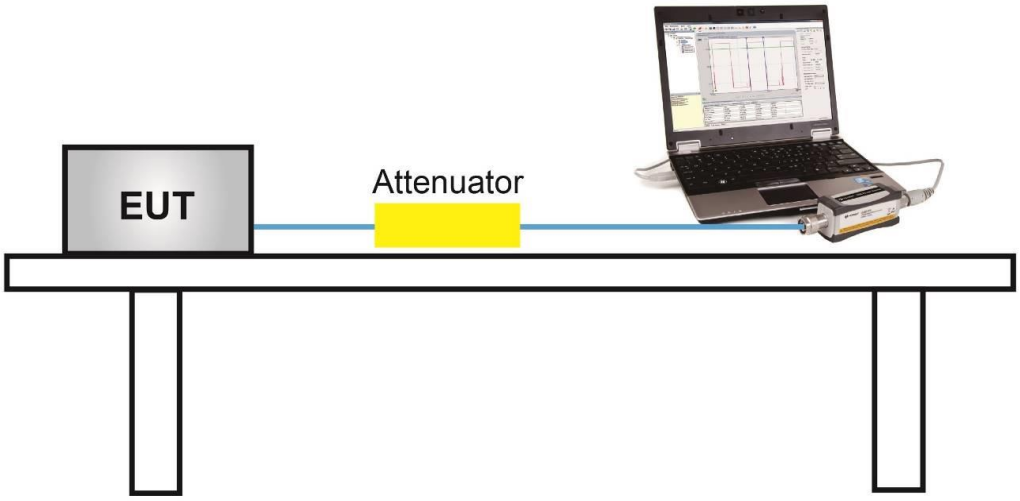
PKPM1 Peak-reading power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Method AVGPM-G (Measurement using a gated RF average-reading power meter)

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since this measurement is made only during the ON time of the transmitter, no duty cycle correction is required.

6.3.4.Test Setup



6.3.5.Test Result

All modes of operation and data rates were investigated, so all RF test requirements shall be executed at low data rates.

Test Mode	Bandwidth (MHz)	Channel No.	Frequency (MHz)	Data Rate / MCS	Average Power (dBm)
802.11b	20	6	2437	1Mbps	17.54
				5.5Mbps	17.31
				11Mbps	17.05
802.11g	20	6	2437	6Mbps	17.22
				24Mbps	16.89
				54Mbps	16.43
802.11n	20	6	2437	MCS0	16.21
				MCS3	15.79
				MCS7	15.36

Test Site	NS-TR2	Test Engineer	Flay Yang
Test Date	2021/05/22		

Test Result of Peak Output Power

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Peak Power (dBm)	Limit (dBm)	EIRP (dBm)	Limit (dBm)	Result
11b	1Mbps	01	2412	19.47	≤ 30.00	21.47	≤ 36.02	Pass
11b	1Mbps	06	2437	19.58	≤ 30.00	21.58	≤ 36.02	Pass
11b	1Mbps	11	2462	17.86	≤ 30.00	19.86	≤ 36.02	Pass
11g	6Mbps	01	2412	20.41	≤ 30.00	22.41	≤ 36.02	Pass
11g	6Mbps	06	2437	21.46	≤ 30.00	23.46	≤ 36.02	Pass
11g	6Mbps	11	2462	20.52	≤ 30.00	22.52	≤ 36.02	Pass
11n-HT20	MCS0	01	2412	20.61	≤ 30.00	22.61	≤ 36.02	Pass
11n-HT20	MCS0	06	2437	21.27	≤ 30.00	23.27	≤ 36.02	Pass
11n-HT20	MCS0	11	2462	20.38	≤ 30.00	22.38	≤ 36.02	Pass

Note: EIRP (dBm) = Peak Power (dBm) + Antenna Gain (dBi), Antenna Gain = 2 dBi.

Test Result of Average Output Power (Reporting Only)

Test Mode	Data Rate / MCS	Channel No.	Freq. (MHz)	Average Power (dBm)	Limit (dBm)	EIRP (dBm)	Limit (dBm)	Result
11b	1Mbps	01	2412	17.34	≤ 30.00	19.34	≤ 36.02	Pass
11b	1Mbps	06	2437	17.54	≤ 30.00	19.54	≤ 36.02	Pass
11b	1Mbps	11	2462	15.69	≤ 30.00	17.69	≤ 36.02	Pass
11g	6Mbps	01	2412	12.55	≤ 30.00	14.55	≤ 36.02	Pass
11g	6Mbps	06	2437	17.22	≤ 30.00	19.22	≤ 36.02	Pass
11g	6Mbps	11	2462	12.59	≤ 30.00	14.59	≤ 36.02	Pass
11n-HT20	MCS0	01	2412	12.32	≤ 30.00	14.32	≤ 36.02	Pass
11n-HT20	MCS0	06	2437	16.21	≤ 30.00	18.21	≤ 36.02	Pass
11n-HT20	MCS0	11	2462	12.85	≤ 30.00	14.85	≤ 36.02	Pass

Note: EIRP (dBm) = Average Power (dBm) + Antenna Gain (dBi), Antenna Gain = 2 dBi.

6.4. Power Spectral Density Measurement

6.4.1.Test Limit

The maximum permissible power spectral density is 8dBm in any 3 kHz band.

The same method of determining the conducted output power shall be used to determine the power spectral density.

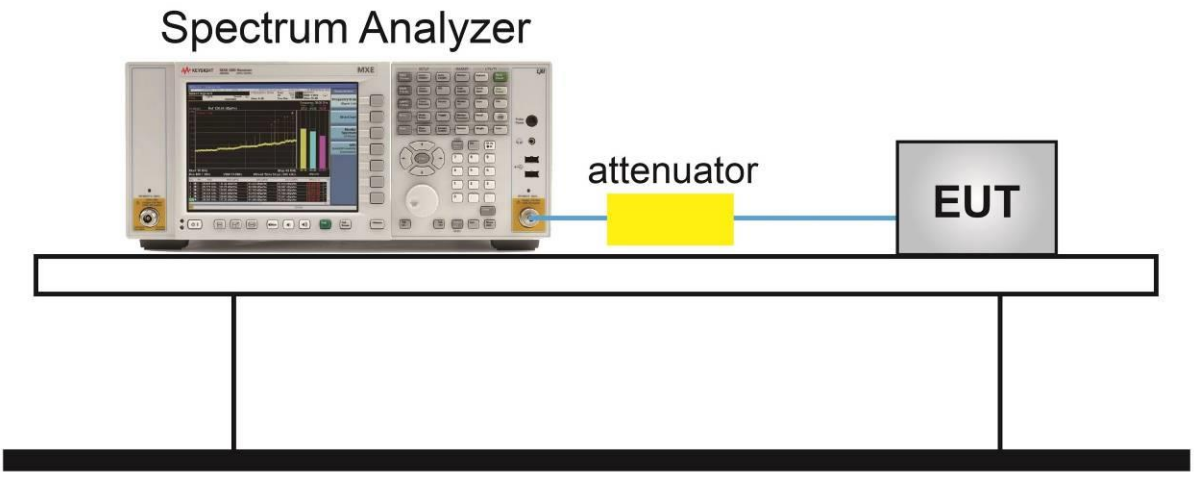
6.4.2.Test Procedure Used

ANSI C63.10-2013 Section 11.10.2

6.4.3.Test Setting

1. Analyzer was set to the center frequency of the DTS channel under investigation
2. Span = 1.5 times the DTS channel bandwidth
3. RBW = 3kHz
4. VBW = 10kHz
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Trace was allowed to stabilize

6.4.4.Test Setup



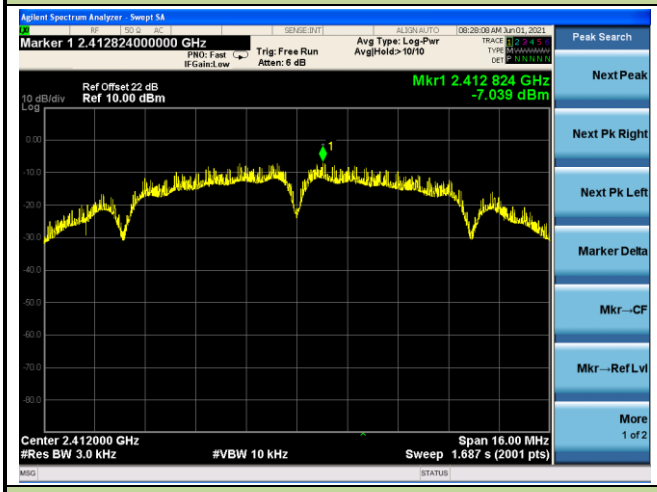
6.4.5.Test Result

Test Site	NS-TR2	Test Engineer	Flay Yang
Test Date	2021/06/01		

Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	PSD Result (dBm/3kHz)	Limit (dBm/3kHz)	Result
11b	1Mbps	01	2412	-7.04	≤ 8.00	Pass
11b	1Mbps	06	2437	-6.08	≤ 8.00	Pass
11b	1Mbps	11	2462	-8.22	≤ 8.00	Pass
11g	6Mbps	01	2412	-13.58	≤ 8.00	Pass
11g	6Mbps	06	2437	-8.28	≤ 8.00	Pass
11g	6Mbps	11	2462	-13.45	≤ 8.00	Pass
11n-HT20	MCS0	01	2412	-13.01	≤ 8.00	Pass
11n-HT20	MCS0	06	2437	-8.01	≤ 8.00	Pass
11n-HT20	MCS0	11	2462	-12.36	≤ 8.00	Pass

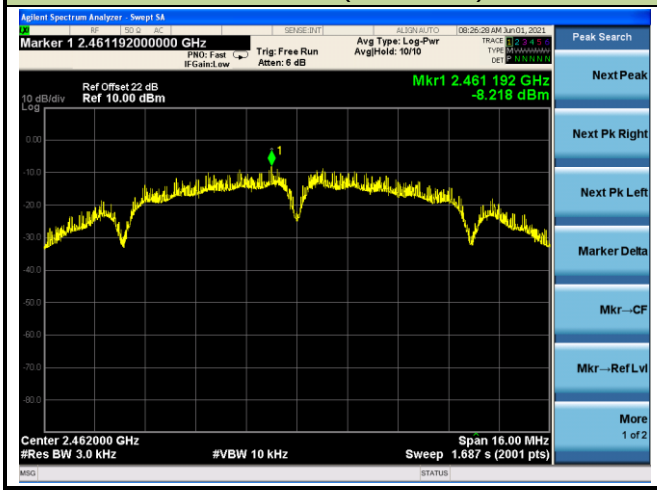
802.11b PK PSD

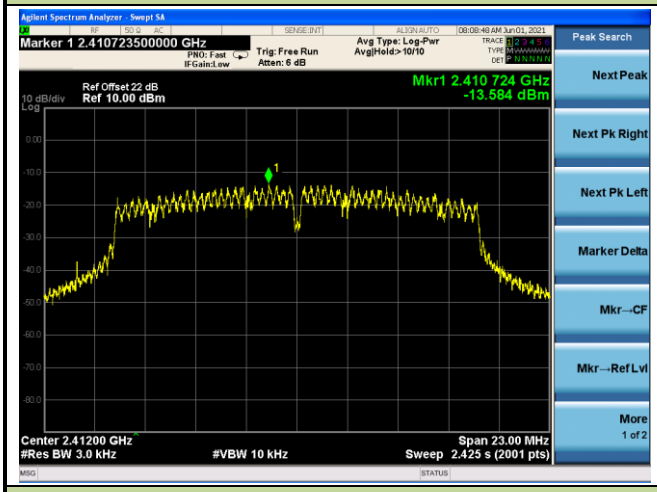
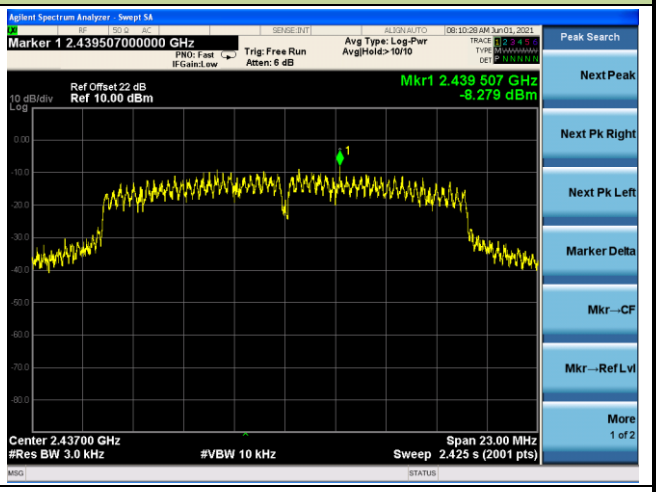
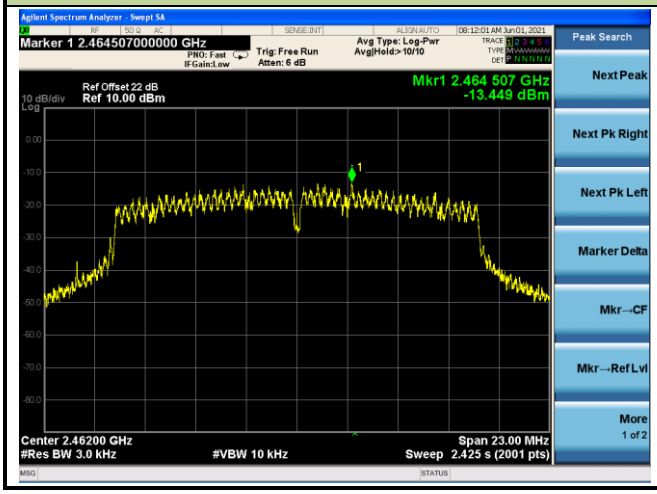
Channel 01 (2412MHz)

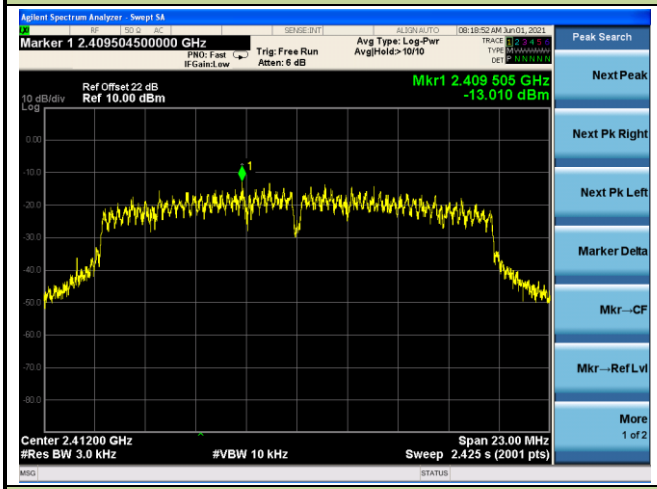
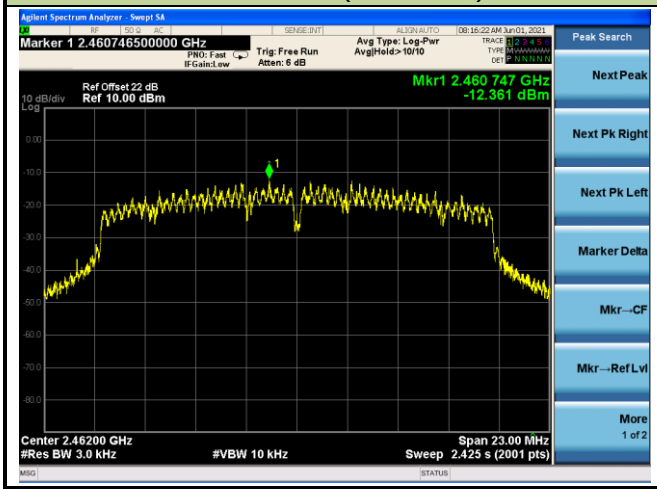


Channel 06 (2437MHz)

Channel 11 (2462MHz)



802.11g PK PSD	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

802.11n-HT20 PK PSD	
Channel 01 (2412MHz)	Channel 06 (2437MHz)
	
Channel 11 (2462MHz)	
	

6.5. Conducted Band Edge and Out-of-Band Emissions

6.5.1.Test Limit

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

6.5.2.Test Procedure Used

ANSI C63.10-2013 - Section 11.11

6.5.3.Test Settitng

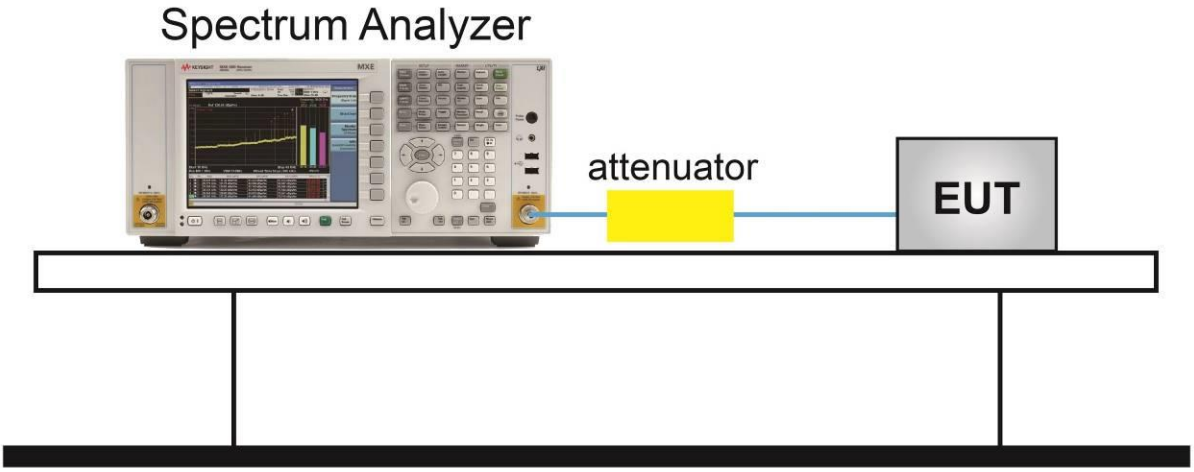
Reference level measurement

1. Set instrument center frequency to DTS channel center frequency
2. Set the span to ≥ 1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW ≥ 3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

Emission level measurement

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

6.5.4.Test Setup



6.5.5.Test Result

Test Site	NS-TR2	Test Engineer	Flay Yang
Test Date	2021/06/01		

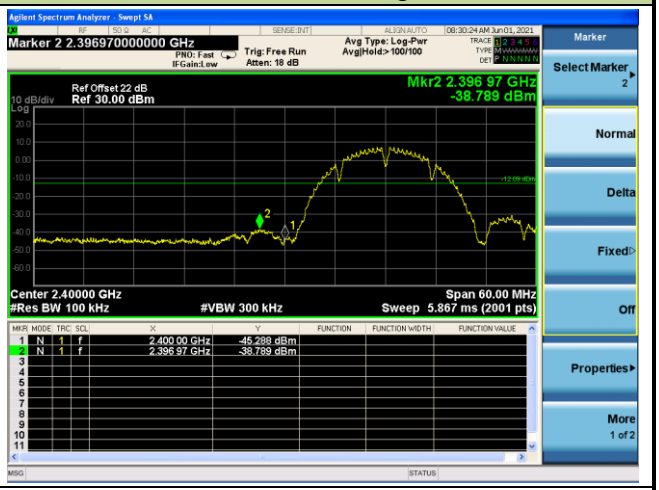
Test Mode	Data Rate / MCS	Channel No.	Frequency (MHz)	Limit	Result
802.11b	1Mbps	01	2412	20dBc	Pass
802.11b	1Mbps	06	2437	20dBc	Pass
802.11b	1Mbps	11	2462	20dBc	Pass
802.11g	6Mbps	01	2412	20dBc	Pass
802.11g	6Mbps	06	2437	20dBc	Pass
802.11g	6Mbps	11	2462	20dBc	Pass
802.11n-HT20	MCS0	01	2412	20dBc	Pass
802.11n-HT20	MCS0	06	2437	20dBc	Pass
802.11n-HT20	MCS0	11	2462	20dBc	Pass

802.11b Out-of-Band Emissions

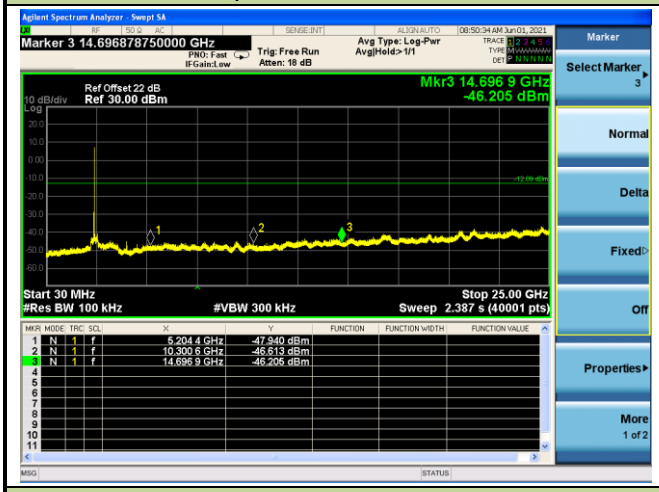
Channel 01 (2412MHz)

100kHz PSD Reference Level

Low Band Edge



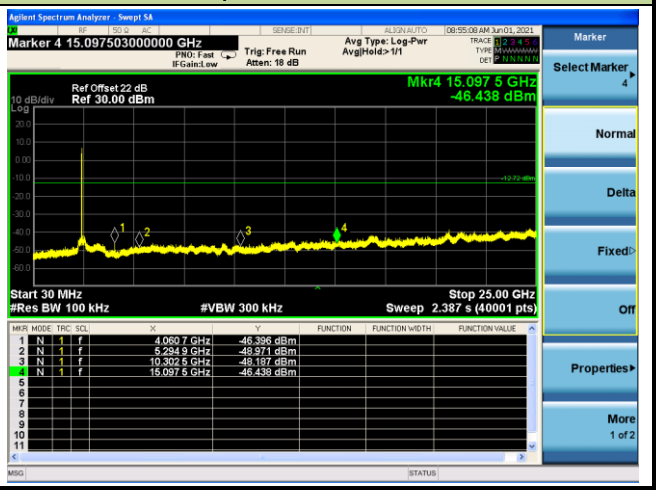
Spurious Emission

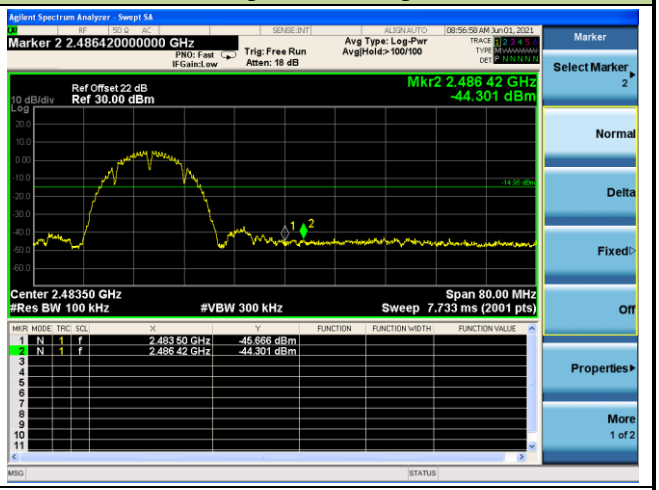
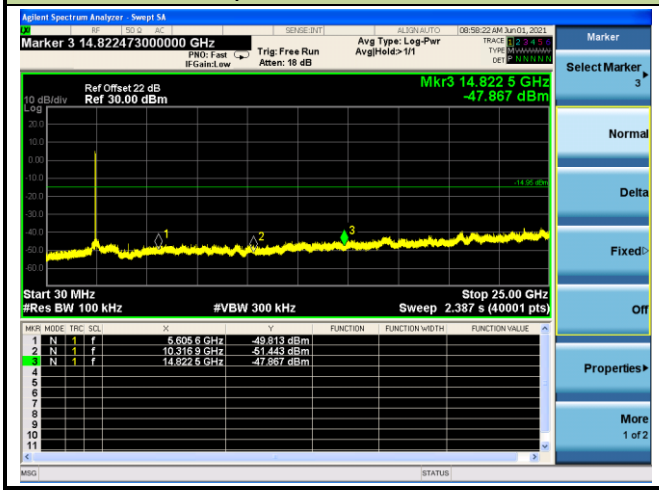


Channel 06 (2437MHz)

100kHz PSD Reference Level

Spurious Emission



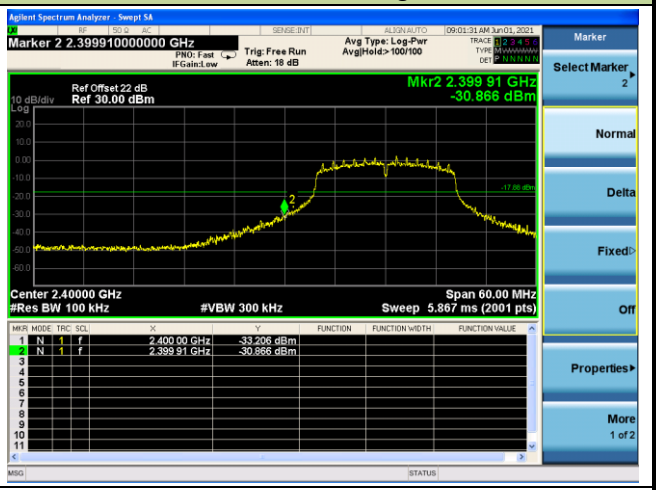
802.11b Out-of-Band Emissions	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11g Out-of-Band Emissions

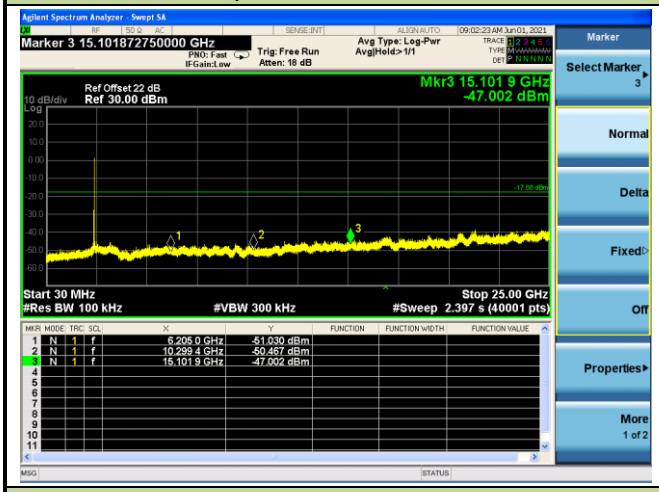
Channel 01 (2412MHz)

100kHz PSD Reference Level

Low Band Edge



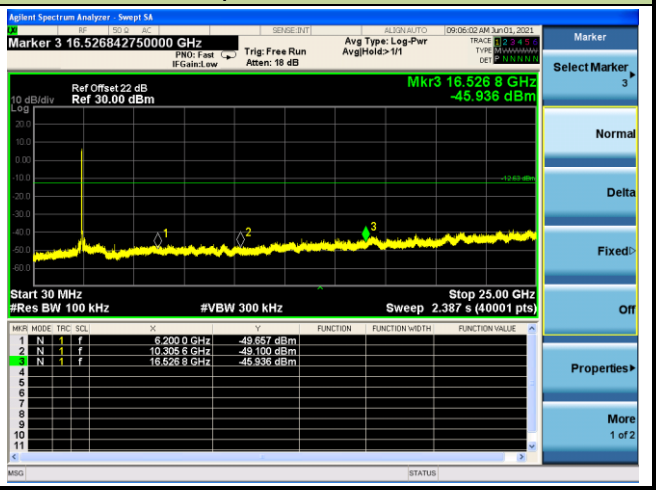
Spurious Emission

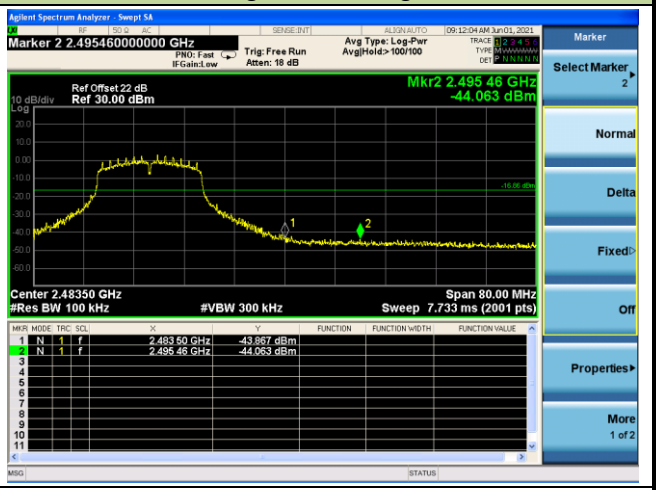
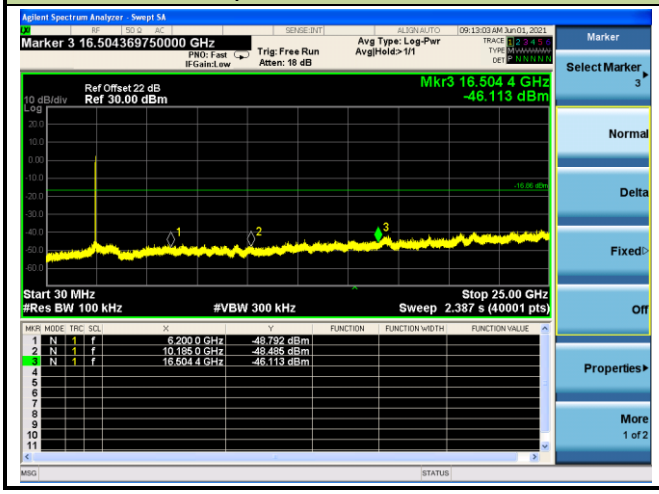


Channel 06 (2437MHz)

100kHz PSD Reference Level

Spurious Emission



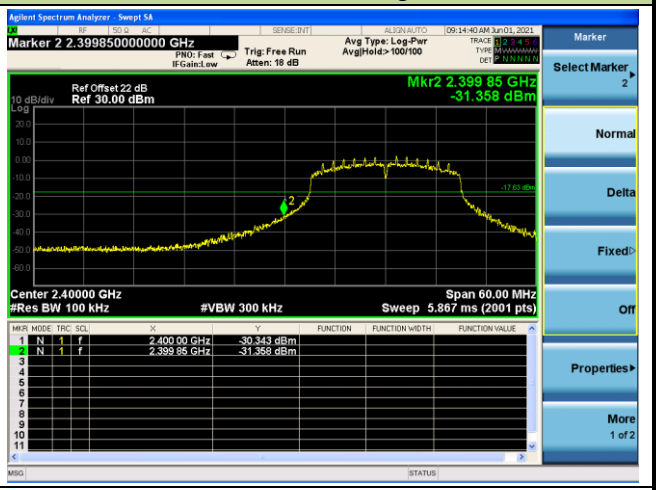
802.11g Out-of-Band Emissions	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11n-HT20 Out-of-Band Emissions

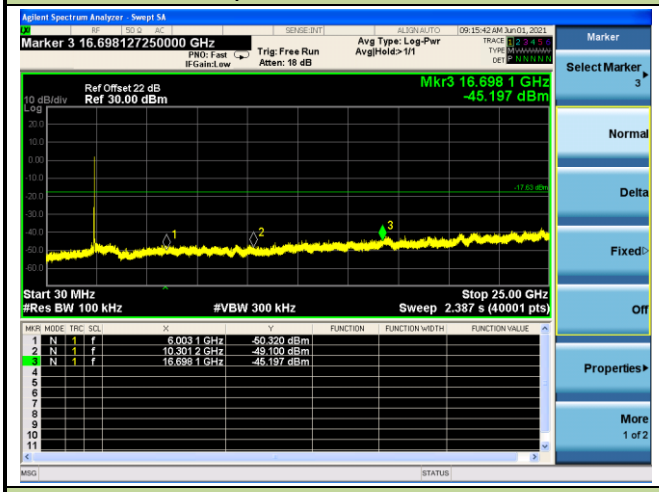
Channel 01 (2412MHz)

100kHz PSD Reference Level

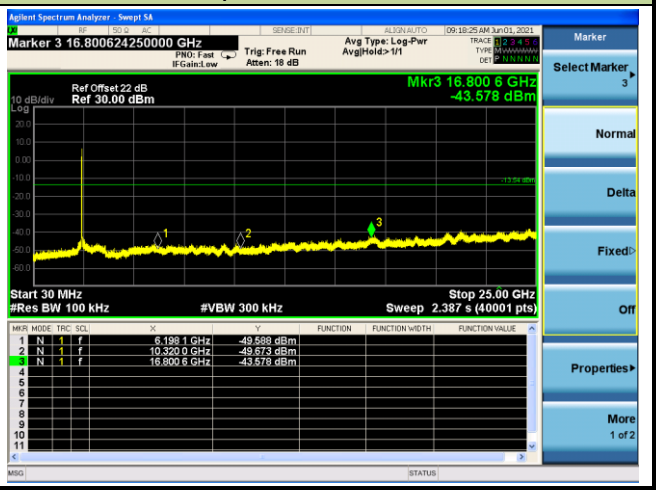
Low Band Edge



Spurious Emission



Channel 06 (2437MHz)

100kHz PSD Reference Level

Spurious Emission