




JAPAN RADIO TEST REPORT

Equipment : Gigabit Ethernet to Coax bridge
Brand Name : IgniteNet
Model Name : GL-I-1GE-1C
Applicant : Accton Technology Corporation
No. 1, Creation 3rd Rd., Science-based Industrial Park,
HsinChu 300, Taiwan, R.O.C.
Manufacturer (1) : Joy Technology (Shen Zhen) Co. Ltd
HengKeng Ind., Shangpai, Shangwu, Aiqun Rd., Shiyan
Town, Shenzhen 518108 China
Manufacturer (2) : Accton Technology Corporation
No. 1, Creation 3rd Rd., Science-based Industrial Park,
HsinChu 300, Taiwan, R.O.C.
Standard : MIC Certification Rule, Article 2 Paragraph 1 Item 19

The product was received on Oct. 08, 2018, and testing was started from Oct. 12, 2018 and completed on Oct. 12, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in MIC Notice No.88 Appendix No.43 and shown compliance with the applicable MIC Ordinance Regulating Radio Equipment Article 49.20 and ARIB STD-T66 technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.


Approved by: Cliff Chang

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB Ver1.0

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.1	RLE:6	Frequency Band	PASS	-
3.1	ORE:5	Frequency Error	PASS	-
3.2	ORE:6	Occupied Bandwidth	PASS	-
3.2	ORE:49.20	Spread Bandwidth / Factor	PASS	-
3.3	ORE:49.20	Antenna Power	PASS	-
3.3	ORE:14	Antenna Power Error	PASS	-
-	ORE:49.20	Antenna Beamwidth, EIRP Limit* ¹	N/A	-
-	ORE:49.20	Radiated EIRP* ¹	N/A	-
3.4	ORE:7, Table 3	Transmitter Spurious Emissions	PASS	-
3.5	ORE:24	Receiver Spurious Emissions	PASS	-
3.6	TR:9	Identification Code	PASS	-
3.7	TR:9	Carrier Sense* ²	PASS	-
3.8	ORE:49.20	EUT Construction Protection	PASS	-

RLE: Radio Law Enforcement Regulations

ORE: Ordinance Regulating Radio Equipment

TR: Terminal and Other Equipment Regulations

NT: Notification of the Ministry of Internal Affairs and Communications

*¹: If EIRP power of EUT is lower than 12.14dBm/MHz (20MHz) and 9.1279dBm/MHz (40MHz), so "Antenna Beamwidth, EIRP Limit" and "Radiated EIRP" could be exempted tests.

*²: If OFDM modulation and Occupied Bandwidth \geq 26MHz, Carrier Sense shall be performed.

Reviewed by: Sam Chen

Report Producer: Cindy Peng

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2472	1-13 [13]
2400-2483.5	n (HT40)	2422-2462	3-11 [9]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.
- Nss-Min is the minimum number of spatial streams.
- Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

Mode	Declared Power (mW/MHz)
11b	7.98
11g	7.78
HT20	7.98
HT40	3.99

1.1.2 Antenna Information

Ant.	Port	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	1	Cortec	AN2450-39A10WGX	Dipole Antenna	I-PEX	3.31
2	2	Cortec	AN2450-39A10WGX	Dipole Antenna	I-PEX	2.83

Note: The EUT has two antennas. (2TX/2RX):

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

1.1.3 EUT Information

EUT Power Type	From power adapter
Test Software Version	MP_TEST Version:1.3.8.0

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)
802.11b_Nss1_2TX	1	0
802.11g_Nss1_2TX	1	0
802.11n HT20_Nss1,(MCS0)_2TX	1	0
802.11n HT40_Nss1,(MCS0)_2TX	1	0

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.5 Power Supply Voltage Fluctuation

Fluctuation	AC Input Power(V)	DC Output Power(V)	Variation (%)
Normal Vol	100	12	-
High Vol	110	12.01	0.083333
Low Vol	90	11.98	-0.166667

Note: Voltage Variation (%) = (Output High or Low Voltage - Output Normal Voltage)/Output Normal Voltage X 100.
During the input supply voltage to the EUT from the external power source is varied by +/- 10%, if output voltage had been confirmed that the fluctuation of power supply to the RF circuit of EUT (excluding power source) is equal to or less than +/- 1%. Exempt extremely high and low supply voltage condition tests, EUT only operated in normal voltage to test all regulations.



1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ MIC Ordinance Regulating Radio Equipment Article 49.20
- ♦ MIC Notice No.88 Appendix No.43

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Owen Hsu	22°C / 53%	Oct. 12, 2018

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
Conducted Emission	1.7 dB	Confidence levels of 95%
Radio frequency	6.6×10^{-8} MHz	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1_2TX	-
2412MHz	40/40
2442MHz	41/40
2472MHz	42/42
802.11g_Nss1_2TX	-
2412MHz	47/46
2442MHz	48/47
2472MHz	49/49
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	49/48
2442MHz	50/49
2472MHz	52/52
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	50/49
2442MHz	51/50
2462MHz	51/50

2.2 The Worst Case Measurement Configuration

Tests Item	Frequency Error, Occupied Bandwidth, Spread Bandwidth, Spread Factor, Antenna Power, Antenna Power Error, EIRP Power, Transmitter Spurious Emissions, Receiver Spurious Emissions, Identification Code, Carrier Sense
Test Condition	Conducted measurement at transmit chains.

2.3 EUT Operation during Test

During the test, "MP_TEST Version:1.3.8.0" under WIN 7 was executed the test program to control the EUT continuously transmit/receive RF signal.

2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter 1	APD	WB-18D12FU	INPUT: 100-240V, 50-60Hz, 0.5A Max. OUTPUT: 12V, 1.5A
2	Adapter 2	APD	WB-12G12FU	INPUT: 100-240V, 50-60Hz, 0.3A Max. OUTPUT: 12V, 1A

Note: Adapter does not affect the radio tests, there is only adapter 2 tested and recorded in this report.

2.5 Support Equipment

For Carrier Sense test:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	N/A
2	WLAN dongle	Abocom	AU7520	2AA9A-AU7520

For Other tests:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	N/A

3 Test Result

3.1 Frequency Error

3.1.1 Frequency Error Limit

Frequency Error Limit
$\leq \pm 50$ ppm

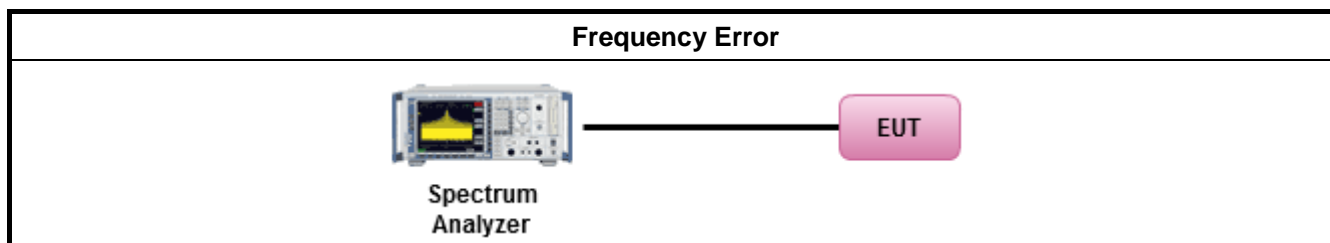
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 3.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 3.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 3.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 3.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 3.6

3.1.4 Test Setup



3.1.5 Test Result of Frequency Error

Refer as Appendix A

3.2 Occupied Bandwidth, Spread Bandwidth and Spread Factor

3.2.1 Occupied Bandwidth, Spread Bandwidth and Spread Factor Limit

Occupied Bandwidth Limit	
FHSS	83.5 MHz
FHSS + DSSS	83.5 MHz
FHSS + OFDM	83.5 MHz
OFDM	38 MHz
Other	26 MHz

Spread Bandwidth and Spread Factor Limit	
Spread Bandwidth	≥500kHz
Spread Factor	≥5

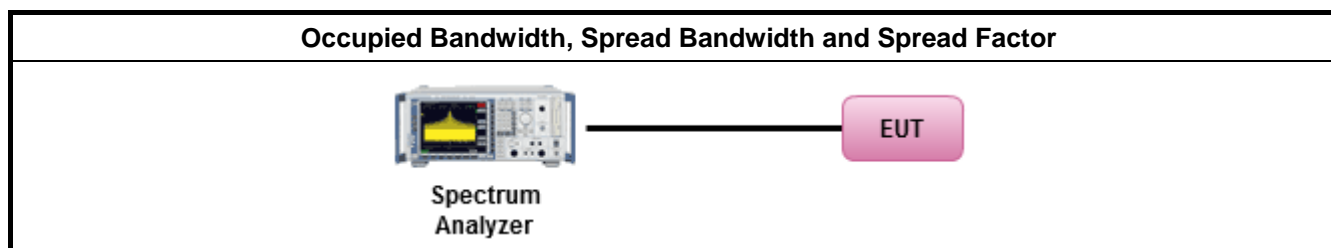
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 4.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 4.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 4.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 4.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 4.6

3.2.4 Test Setup



3.2.5 Test Result of Occupied Bandwidth / Spread Bandwidth / Spread Factor

Refer as Appendix B

3.3 Antenna Power, Antenna Power Error

3.3.1 Antenna Power and Antenna Power Error Limit

Antenna Power Limit (mW/MHz)
$\leq 3\text{mW/MHz}$ (FHSS, FHSS+DSSS, FHSS+OFDM form 2427~2470.75 MHz) $\leq 10\text{mW/MHz}$ (DSSS from 2400~2483.5MHz) $\leq 10\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [OBW \leq 26MHz] $\leq 5\text{mW/MHz}$ (OFDM from 2400~2483.5MHz) – [26MHz<OBW \leq 38MHz] $\leq 10\text{mW}$ (Other from 2400~2483.5MHz)

Antenna Power Error Limit (%)
+20% ~ -80%

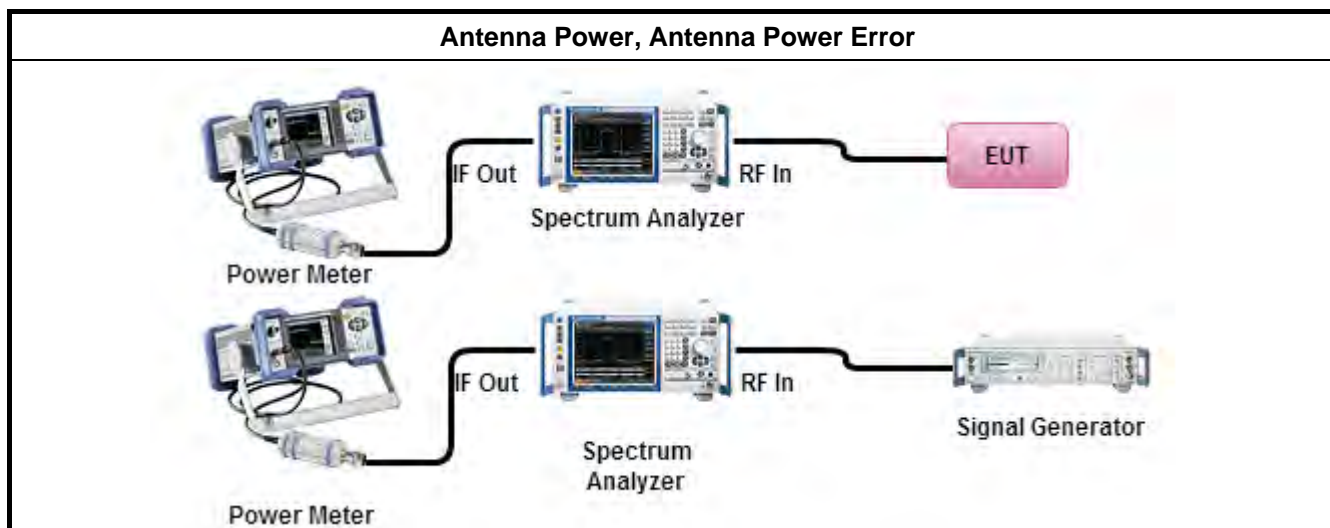
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 6.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 6.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 6.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 6.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 6.6

3.3.4 Test Setup



3.3.5 Test Result of Antenna Power and Antenna Power Error

Refer as Appendix C

3.4 Transmitter Spurious Emissions

3.4.1 Transmitter Spurious Emissions Limit

Transmitter Spurious Emissions		Limit	
Range (MHz)		uW/MHz	dBm/MHz
30	2387	2.5	-26
2387	2400	25	-16
2483.5	2496.5	25	-16
2496.5	12500	2.5	-26

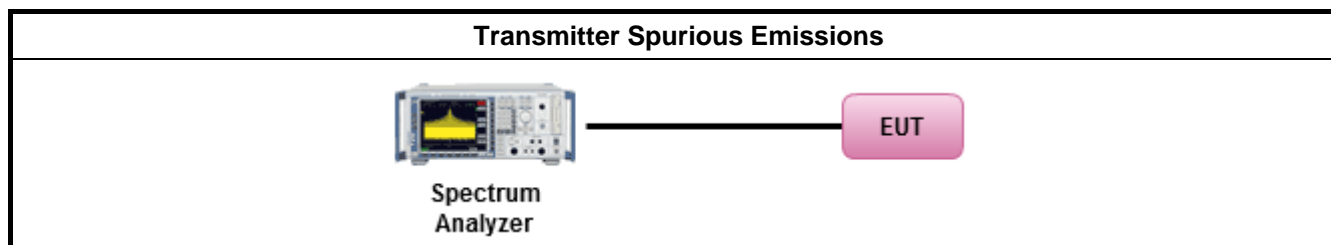
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.1, clause 1.3
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.1, clause 1.4
Measuring Operation Procedures	MIC Notice No.88 Appendix No.1, clause 1.5
Presentation of Results	MIC Notice No.88 Appendix No.1, clause 1.6

3.4.4 Test Setup



3.4.5 Test Result of Transmitter Spurious Emissions

Refer as Appendix D

3.5 Receiver Spurious Emissions

3.5.1 Receiver Spurious Emissions Limit

RX Spurious Emission		Limit			
Range (MHz)		nW		dBm	
30	1000	4	4	-54	-54
1000	12500	20	20	-47	-47

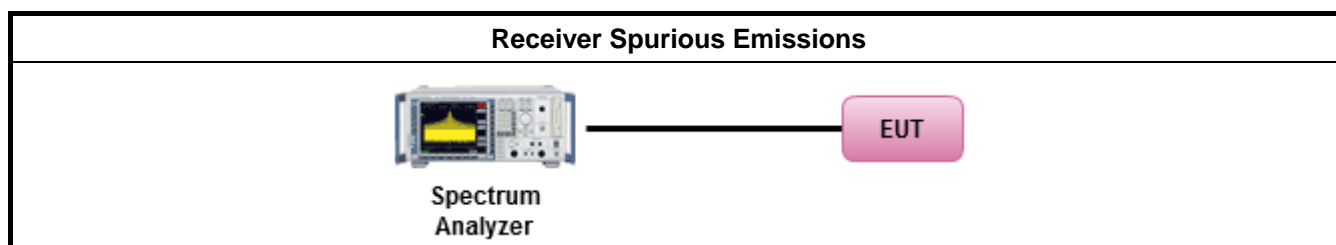
3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 7.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 7.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 7.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 7.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 7.6

3.5.4 Test Setup



3.5.5 Test Result of Receiver Spurious Emissions

Refer as Appendix E

3.6 Identification Code

3.6.1 Identification Code Limit

Identification Code Limit
≤ 48 bits

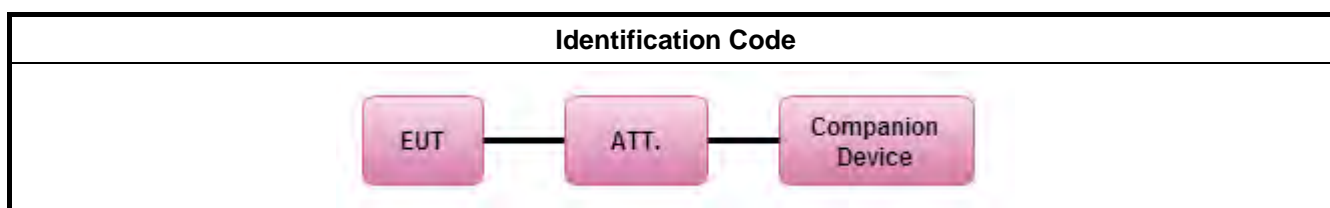
3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 12.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 12.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 12.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 12.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 12.6

3.6.4 Test Setup



3.6.5 Test Result of Identification Code

Refer as Appendix F

3.7 Carrier Sense

3.7.1 Carrier Sense Limit

Carrier Sense Limit	
Stop transmission for interference signal level above 100mV/m (or level at $22.79 + Gr - 20 \cdot \log(f)$ [dBm])	

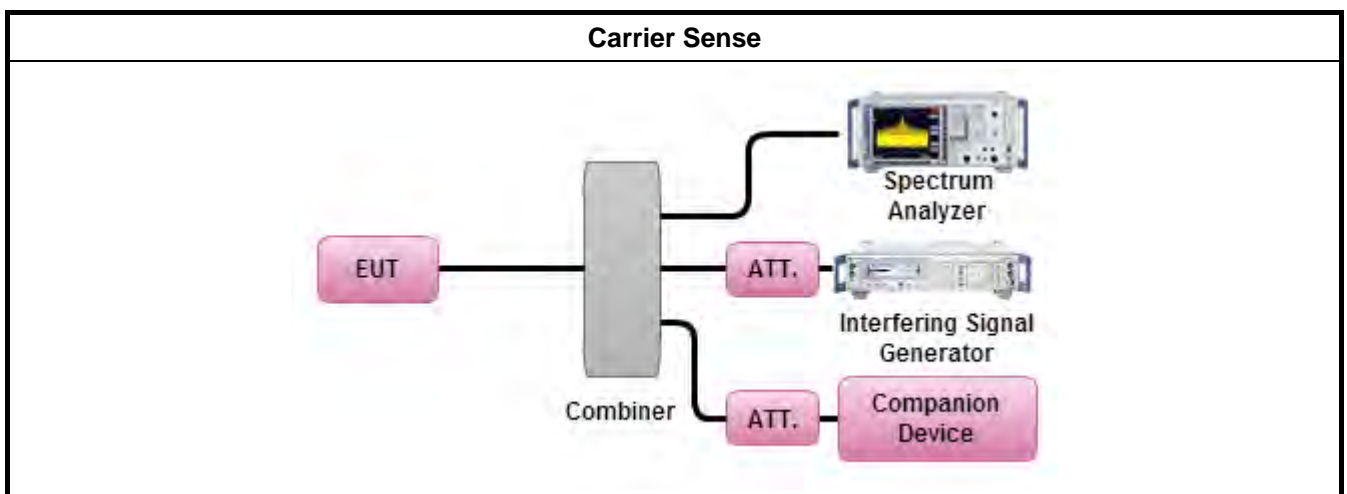
3.7.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.7.3 Test Procedures

Test Method	
Measuring Equipment Conditions	MIC Notice No.88 Appendix No.43, clause 8.2
Conditions of Equipment under Test	MIC Notice No.88 Appendix No.43, clause 8.3
Measuring Operation Procedures	MIC Notice No.88 Appendix No.43, clause 8.4
Presentation of Results	MIC Notice No.88 Appendix No.43, clause 8.5
Other Conditions	MIC Notice No.88 Appendix No.43, clause 8.6

3.7.4 Test Setup



3.7.5 Test Result of Carrier Sense

Refer as Appendix G

3.8 EUT Construction Protection

3.8.1 EUT Construction Protection Limit

EUT Construction Protection Limit	
The high-frequency section and modulation section of the radio equipment except for the antenna system shall not be capable of being opened easily.	

3.8.2 EUT Construction Protection

EUT Construction Protection	
Protected Method	Description
Special Screw	RF and Modulation components are covered within case of EUT and this case used special screw to protect anybody to open this case

3.8.3 Reference Documents

<p>Photo</p>	
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4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Calibration Method	Calibration Agent Name	Remark
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 21, 2017	Dec. 20, 2018	c)	A	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz ~ 26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz ~26.5 GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410 001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	c)	A	Conducted (TH01-CB)
LCR Meter	Lutron	LCR-9083	I.402812	N/A	Oct. 20, 2017	Oct. 19, 2018	c)	A	Conducted (TH01-CB)
Signal Generator	R&S	SMR40	100302	10MHz~40GHz	Dec. 01, 2017	Nov. 30, 2018	c)	A	Conducted (TH01-CB)
RF Power Divider	ANAREN	2 Way	DFS-01-D V-02	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Power Divider	MTJ	2 Way	DFS-01-D V-03	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)
RF Power Divider	ANAREN	4 Way	DFS-01-D V-01	1GHz ~ 6GHz	Oct. 08, 2018	Oct. 07, 2019	c)	B	Conducted (TH01-CB)

Note:

- Calibration Interval of instruments listed above is one year.
- N.C.R. means Non-Calibration required.
- Calibration Agent Name: Describe calibration agent name with its country name, and symbols in "Calibration Agent Name" shows the agent names as follows,
A: Electronics Testing Center, Taiwan.
B: Sporton International Inc., Taiwan.
C: ROHDE&SCHWARZ., Taiwan.
- Calibration Method
 - Calibration conducted by the National Institute of Information and Communications Technology or a designated calibration agency under Article 102-18 paragraph (1)
 - Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Law (Law No. 51 of 1992)
 - Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph (1)
 - Calibration conducted by using other equipment that listed above from a) to c)

**Summary**

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port
2.4-2.4835GHz	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	2.472G	2.47198254G	-7.062	±50	1
802.11g_Nss1_2TX	Pass	2.472G	2.47198249G	-7.085	±50	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.472G	2.4719825G	-7.081	±50	1
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.442G	2.44198272G	-7.078	±50	1

Result

Mode	Result	Ch (Hz)	Center (Hz)	ppm	Limit (ppm)	Port
802.11b_Nss1_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.41198322G	-6.956	±50	1
2442MHz_TnomVnom	Pass	2.442G	2.44198281G	-7.041	±50	1
2472MHz_TnomVnom	Pass	2.472G	2.47198254G	-7.062	±50	1
802.11g_Nss1_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.4119831G	-7.005	±50	1
2442MHz_TnomVnom	Pass	2.442G	2.44198275G	-7.064	±50	1
2472MHz_TnomVnom	Pass	2.472G	2.47198249G	-7.085	±50	1
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.412G	2.41198308G	-7.013	±50	1
2442MHz_TnomVnom	Pass	2.442G	2.44198272G	-7.078	±50	1
2472MHz_TnomVnom	Pass	2.472G	2.4719825G	-7.081	±50	1
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.422G	2.42198294G	-7.043	±50	1
2442MHz_TnomVnom	Pass	2.442G	2.44198272G	-7.078	±50	1
2462MHz_TnomVnom	Pass	2.462G	2.46198258G	-7.077	±50	1

Summary

Mode	Max-OBW (MHz)	ITU-Code	Min-OBW (MHz)
2.4-2.4835GHz	-	-	-
802.11b_Nss1_2TX	14.84	14M8G1D	14.68
802.11g_Nss1_2TX	16.7	16M7D1D	16.52
802.11n HT20_Nss1,(MCS0)_2TX	17.84	17M8D1D	17.5
802.11n HT40_Nss1,(MCS0)_2TX	36.76	36M8D1D	36.4

Max-OBW = Maximum 99% occupied bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

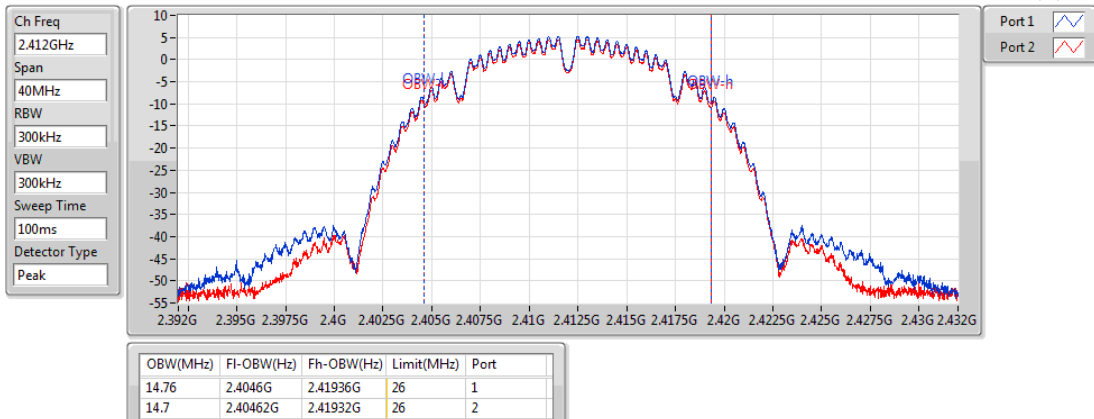
Mode	Result	Limit (MHz)	P1-OBW (MHz)	P2-OBW (MHz)
802.11b_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26	14.76	14.7
2442MHz_TnomVnom	Pass	26	14.76	14.72
2472MHz_TnomVnom	Pass	26	14.84	14.68
802.11g_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26	16.58	16.52
2442MHz_TnomVnom	Pass	26	16.58	16.54
2472MHz_TnomVnom	Pass	26	16.7	16.56
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	26	17.6	17.5
2442MHz_TnomVnom	Pass	26	17.62	17.54
2472MHz_TnomVnom	Pass	26	17.84	17.54
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-
2422MHz_TnomVnom	Pass	38	36.56	36.4
2442MHz_TnomVnom	Pass	38	36.56	36.52
2462MHz_TnomVnom	Pass	38	36.76	36.4

P1-OBW = Port 1 99% occupied bandwidth; **P2-OBW** = Port 2 99% occupied bandwidth; **P3-OBW** = Port 3 99% occupied bandwidth;
P4-OBW = Port 4 99% occupied bandwidth;

802.11b_Nss1_2TX

OBW

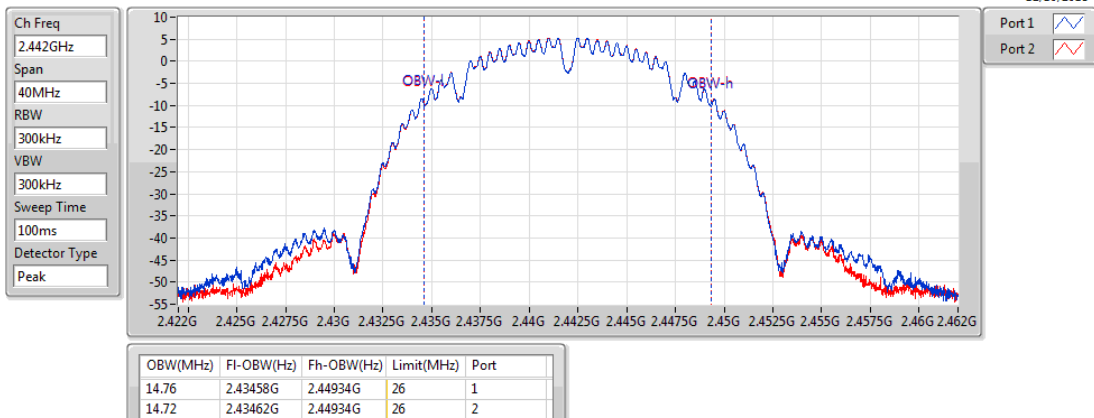
2412MHz_TnomVnom



802.11b_Nss1_2TX

OBW

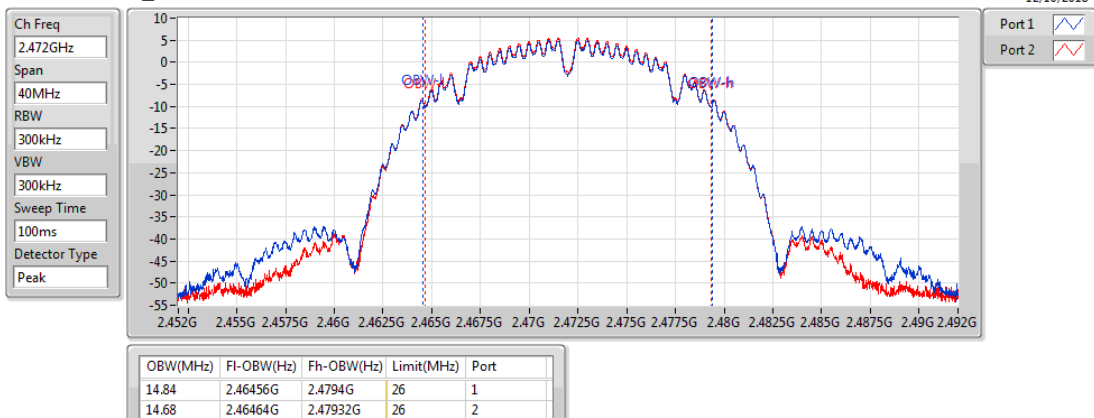
2442MHz_TnomVnom



802.11b_Nss1_2TX

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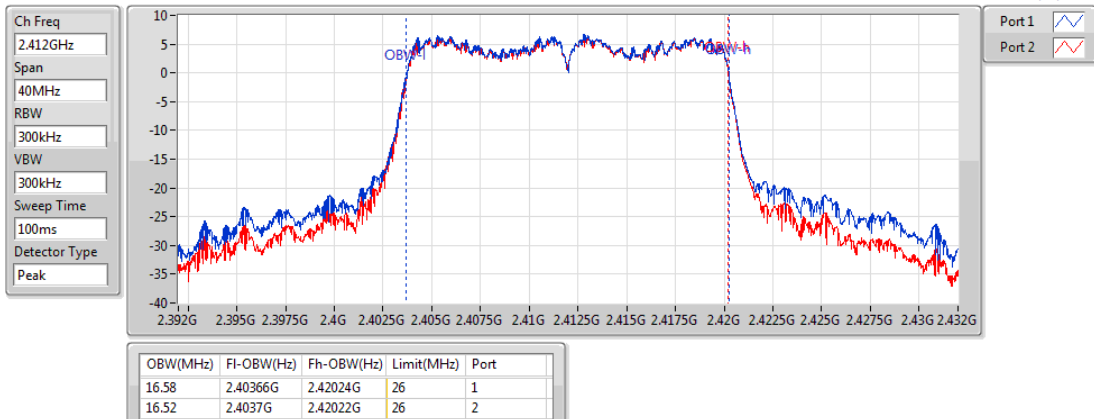
2472MHz_TnomVnom



802.11g_Nss1_2TX

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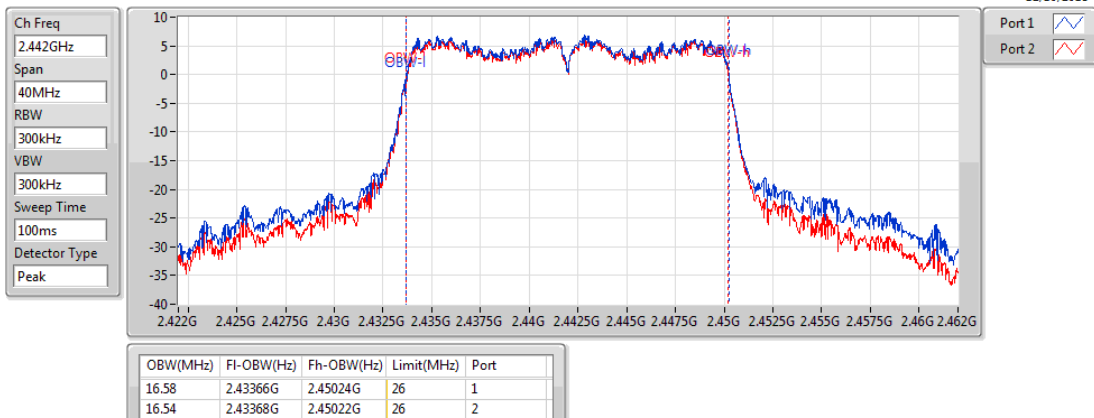
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802.11g_Nss1_2TX

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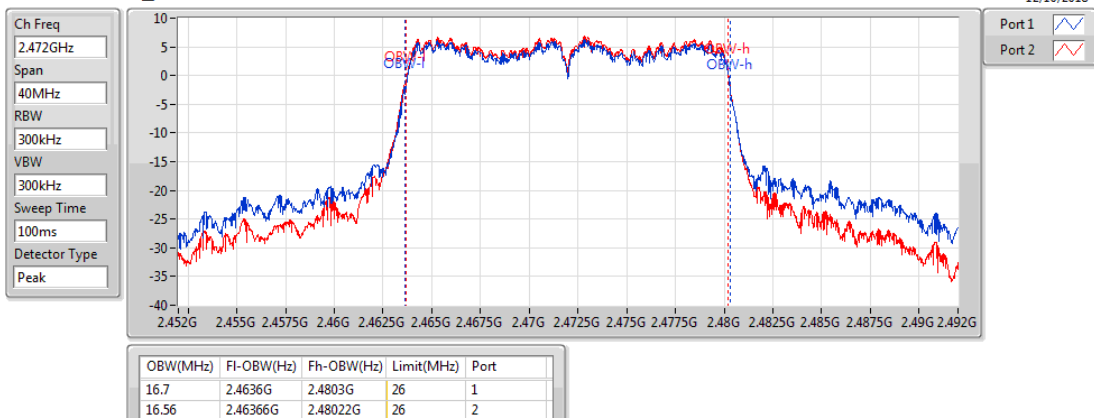
2442MHz_TnomVnom



802.11g_Nss1_2TX

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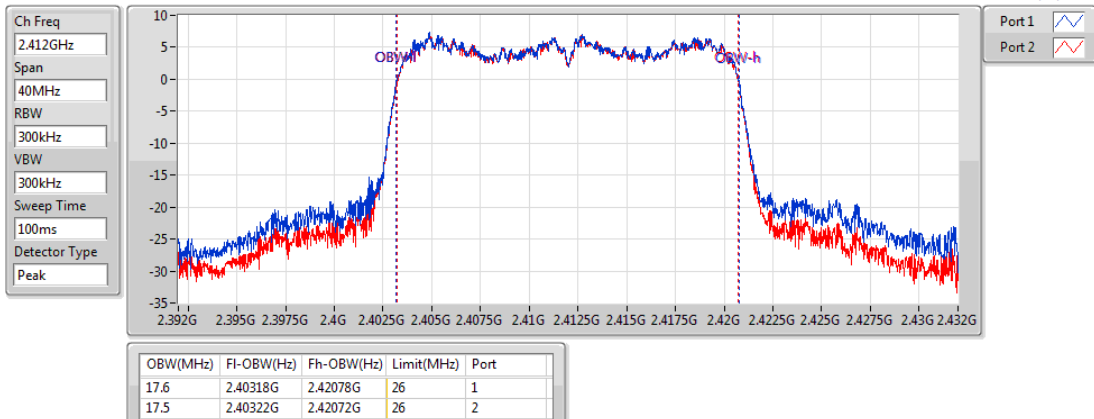
2472MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

OBW

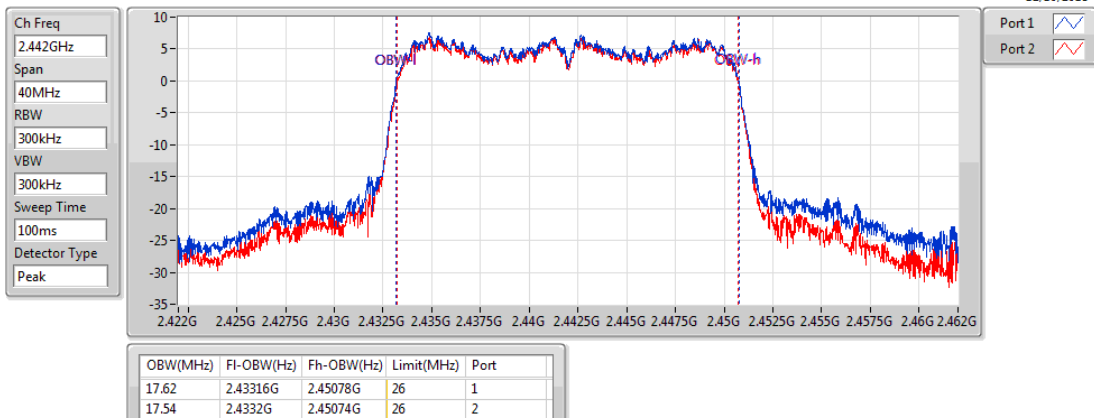
2412MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

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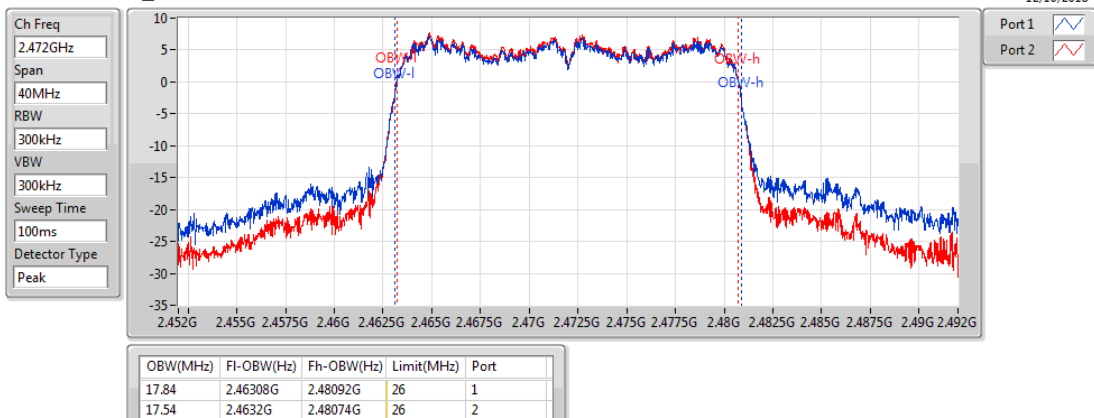
2442MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

OBW

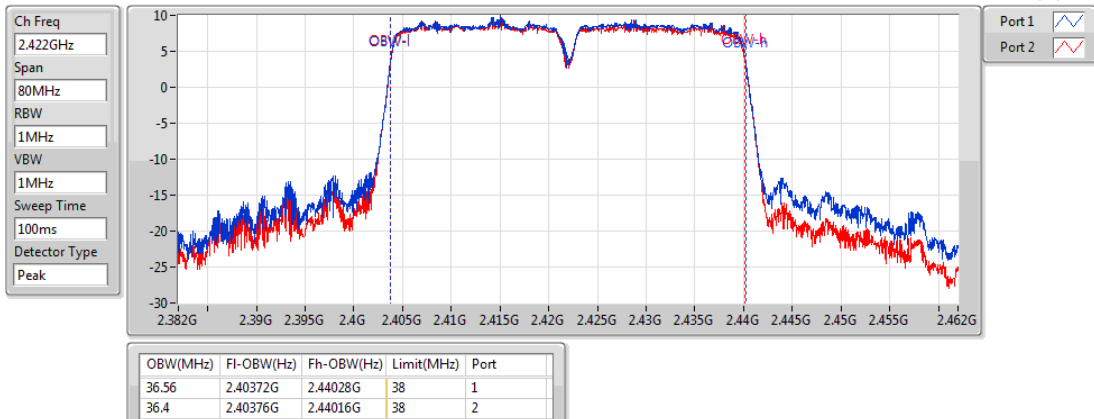
2472MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

OBW

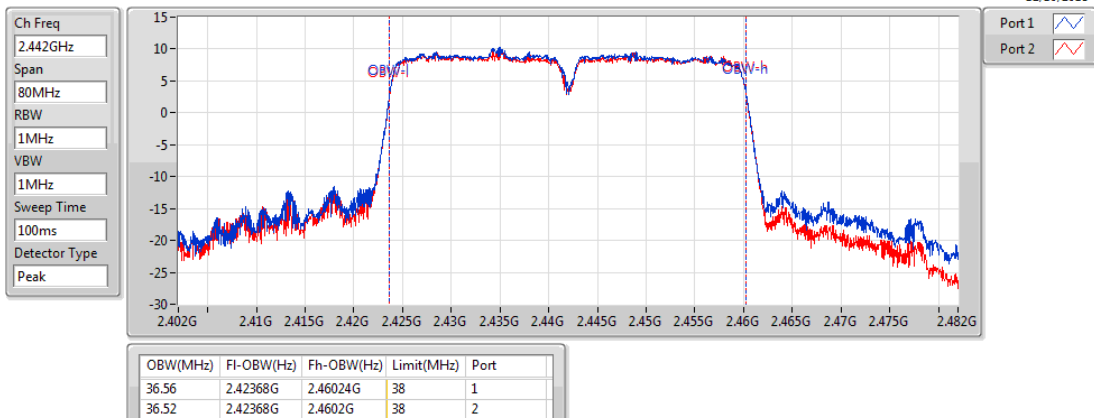
2422MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

OBW

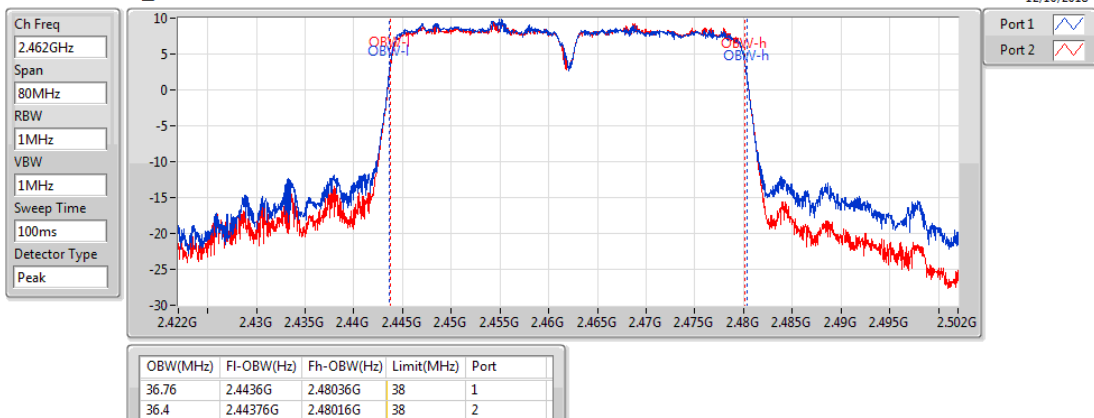
2442MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

OBW

2462MHz_TnomVnom



Summary

Mode	Max-SBW (Hz)	Min-SBW (Hz)	Max-SF	Min-SF
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_2TX	9.7	9.62	7.055	6.996

Max-SBW = Maximum spreading bandwidth; **Min-SBW** = Minimum spreading bandwidth;

Max-SF = Maximum spreading factor; **Min-SF** = Minimum spreading factor;

Result

Mode	Result	SBW Limit (MHz)	Symbol Rate (Msps)	SF Limit	P1-SBW (MHz)	P1-SF	P2-SBW (MHz)	P2-SF
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	0.5	1.375	5	9.66	7.025	9.62	6.996
2442MHz_TnomVnom	Pass	0.5	1.375	5	9.64	7.011	9.64	7.011
2472MHz_TnomVnom	Pass	0.5	1.375	5	9.7	7.055	9.62	6.996

P1-SBW = Port 1 spreading bandwidth; **P2-SBW** = Port 2spreading bandwidth; **P3-SBW** = Port 3spreading bandwidth;

P4-SBW = Port 4spreading bandwidth;

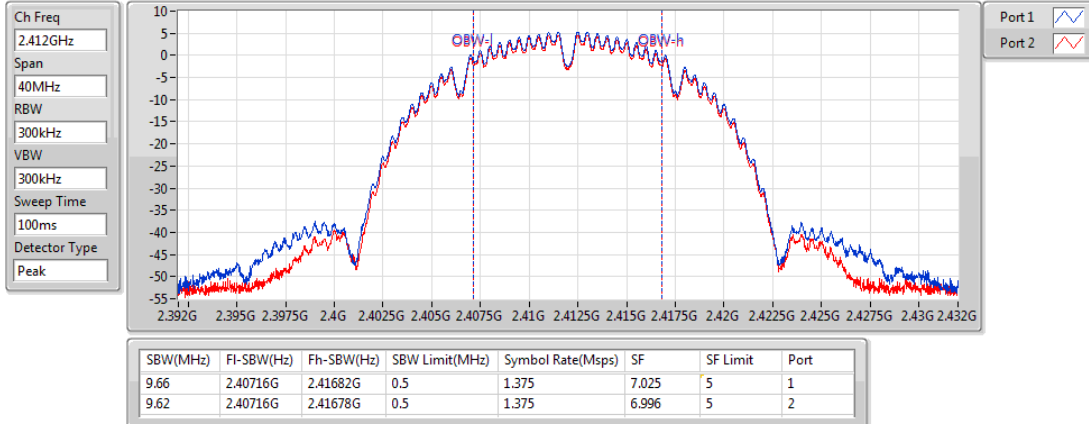
P1-SF = Port 1 spreading factor; **P2-SF** = Port 2spreading factor; **P3-SF** = Port 3spreading factor; **P4-SF** = Port 4spreading factor;

802.11b_Nss1_2TX

SBW

2412MHz_TnomVnom

12/10/2018

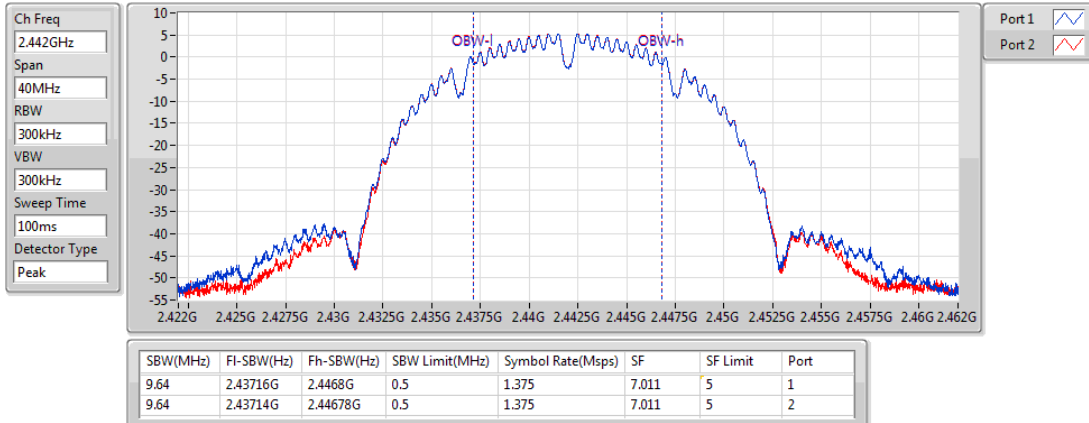


802.11b_Nss1_2TX

SBW

2442MHz_TnomVnom

12/10/2018

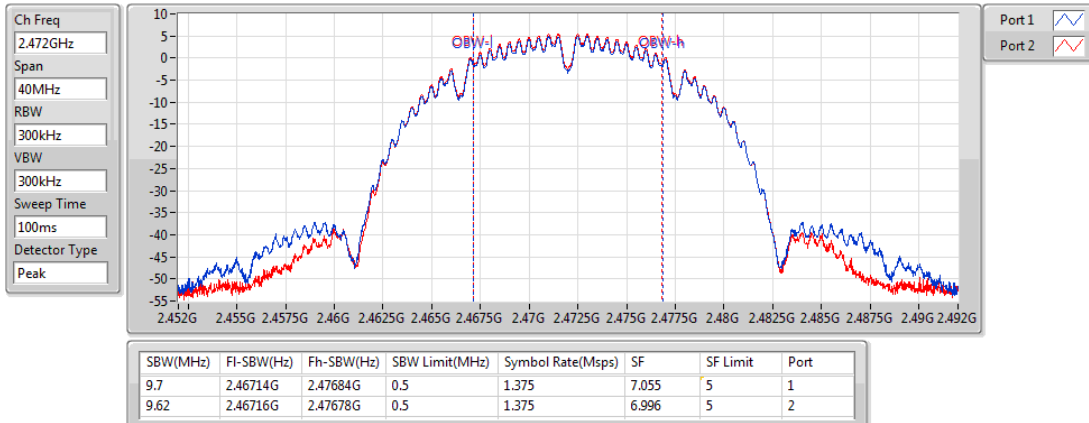


802.11b_Nss1_2TX

SBW

2472MHz_TnomVnom

12/10/2018



Summary

Mode	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	EIRP Antenna Power (dBm/MHz)	EIRP Antenna Power (mW/MHz)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1_2TX	9.02	7.97995	12.10	16.21810
802.11g_Nss1_2TX	8.91	7.78037	11.99	15.81248
802.11n HT20_Nss1,(MCS0)_2TX	9.02	7.97995	12.10	16.21810
802.11n HT40_Nss1,(MCS0)_2TX	6.01	3.99025	9.09	8.10961

Result

Mode	Result	Gain (dBi)	P1 (dBm/MHz)	P2 (dBm/MHz)	Antenna Power (dBm/MHz)	Antenna Power (mW/MHz)	Antenna Power. Lim (mW/MHz)	EIRP Antenna Power (dBm/MHz)	EIRP Antenna Power (mW/MHz)	EIRP Antenna Power Lim. (mW/MHz)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.08	5.89	6.08	9.00	7.94328	10	12.08	16.14359	16.368
2442MHz_TnomVnom	Pass	3.08	5.95	6.06	9.02	7.97995	10	12.10	16.21810	16.368
2472MHz_TnomVnom	Pass	3.08	5.70	6.24	8.99	7.92501	10	12.07	16.10646	16.368
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.08	5.82	5.67	8.76	7.51623	10	11.84	15.27566	16.368
2442MHz_TnomVnom	Pass	3.08	6.01	5.72	8.88	7.72681	10	11.96	15.70363	16.368
2472MHz_TnomVnom	Pass	3.08	5.71	6.08	8.91	7.78037	10	11.99	15.81248	16.368
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.08	6.05	5.94	9.01	7.96159	10	12.09	16.18080	16.368
2442MHz_TnomVnom	Pass	3.08	6.08	5.94	9.02	7.97995	10	12.10	16.21810	16.368
2472MHz_TnomVnom	Pass	3.08	5.98	6.02	9.01	7.96159	10	12.09	16.18080	16.368
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.08	2.92	2.79	5.87	3.86367	5	8.95	7.85236	8.184
2442MHz_TnomVnom	Pass	3.08	3.15	2.84	6.01	3.99025	5	9.09	8.10961	8.184
2462MHz_TnomVnom	Pass	3.08	2.78	2.63	5.72	3.73250	5	8.80	7.58578	8.184

Summary

Mode	Result	Power (dBm/MHz)	Power (mW/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
2.4-2.4835GHz	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	9.02	7.97995	7.98	0.00	20	-80
802.11g_Nss1_2TX	Pass	8.91	7.78037	7.78	0.00	20	-80
802.11n HT20_Nss1,(MCS0)_2TX	Pass	9.02	7.97995	7.98	0.00	20	-80
802.11n HT40_Nss1,(MCS0)_2TX	Pass	6.01	3.99025	3.99	0.00	20	-80

Result

Mode	Result	Power (dBm/MHz)	Power (mW/MHz)	Declare (mW/MHz)	Tolerance (%)	Limit+ (%)	Limit- (%)
802.11b_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	9.00	7.94328	7.98	-0.46	20	-80
2442MHz_TnomVnom	Pass	9.02	7.97995	7.98	0.00	20	-80
2472MHz_TnomVnom	Pass	8.99	7.92501	7.98	-0.69	20	-80
802.11g_Nss1_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	8.76	7.51623	7.78	-3.39	20	-80
2442MHz_TnomVnom	Pass	8.88	7.72681	7.78	-0.68	20	-80
2472MHz_TnomVnom	Pass	8.91	7.78037	7.78	0.00	20	-80
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	9.01	7.96159	7.98	-0.23	20	-80
2442MHz_TnomVnom	Pass	9.02	7.97995	7.98	0.00	20	-80
2472MHz_TnomVnom	Pass	9.01	7.96159	7.98	-0.23	20	-80
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	5.87	3.86367	3.99	-3.17	20	-80
2442MHz_TnomVnom	Pass	6.01	3.99025	3.99	0.00	20	-80
2462MHz_TnomVnom	Pass	5.72	3.73250	3.99	-6.45	20	-80

**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW/MHz)	Limit (dBm)	Limit (uW/MHz)	Margin (dB)	P1 (dBm)	P1 (uW/MHz)	P2 (dBm)	P2 (uW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	30M	2.387G	1M	733.564	-40.40	0.0911	-26.02	2.5	-14.38	-44.00	0.03981	-42.90	0.05129
802.11g_Nss1_2TX	Pass	2.4835G	2.4965G	1M	2483.526	-22.02	6.28643	-16.02	25	-6.00	-23.34	4.63447	-27.82	1.65196
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.4835G	2.4965G	1M	2483.526	-19.39	11.49632	-16.02	25	-3.37	-20.83	8.26038	-24.90	3.23594
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.4965G	12.5G	1M	2499.001	-29.28	1.1799	-26.02	2.5	-3.26	-30.08	0.98175	-37.03	0.19815

Result

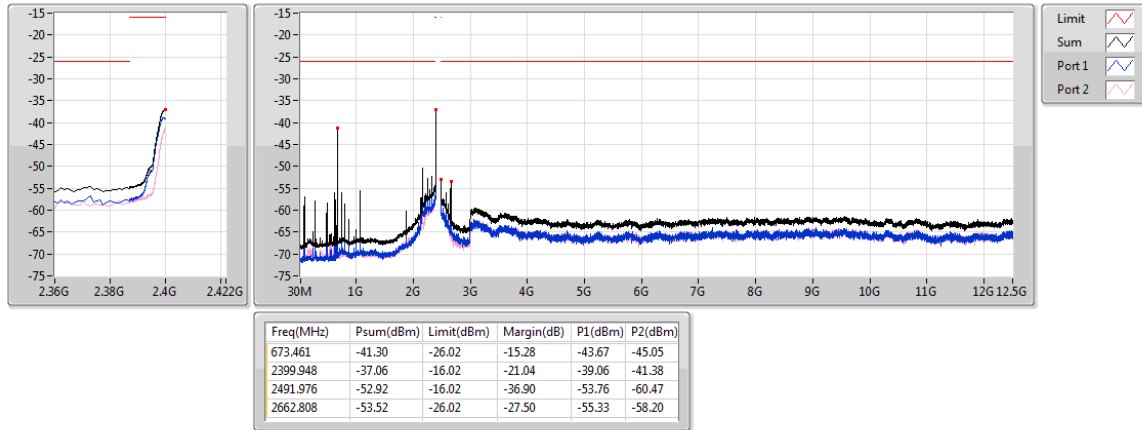
Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (uW/MHz)	Limit (dBm)	Limit (uW/MHz)	Margin (dB)	P1 (dBm)	P1 (uW/MHz)	P2 (dBm)	P2 (uW/MHz)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	673.461	-41.30	0.07421	-26.02	2.5	-15.28	-43.67	0.04295	-45.05	0.03126
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.948	-37.06	0.19694	-16.02	25	-21.04	-39.06	0.12417	-41.38	0.07278
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2491.976	-52.92	0.0051	-16.02	25	-36.90	-53.76	0.00421	-60.47	0.0009
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2662.808	-53.52	0.00444	-26.02	2.5	-27.50	-55.33	0.00293	-58.20	0.00151
2442MHz_TnomVnom	Pass	30M	2.387G	1M	704.102	-41.67	0.0681	-26.02	2.5	-15.65	-44.78	0.03327	-44.58	0.03483
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.922	-54.84	0.00328	-16.02	25	-38.82	-58.01	0.00158	-57.70	0.0017
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2490.338	-54.81	0.00331	-16.02	25	-38.79	-57.95	0.0016	-57.69	0.0017
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2690.318	-54.17	0.00383	-26.02	2.5	-28.15	-56.36	0.00231	-58.19	0.00152
2472MHz_TnomVnom	Pass	30M	2.387G	1M	733.564	-40.40	0.0911	-26.02	2.5	-14.38	-44.00	0.03981	-42.90	0.05129
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2392.018	-52.47	0.00566	-16.02	25	-36.45	-53.38	0.00459	-59.73	0.00106
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2484.306	-36.39	0.22944	-16.02	25	-20.37	-38.51	0.14093	-40.53	0.08851
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2720.328	-54.23	0.00377	-26.02	2.5	-28.21	-56.56	0.00221	-58.05	0.00157
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	673.461	-41.97	0.06353	-26.02	2.5	-15.95	-44.32	0.03698	-45.76	0.02655
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.974	-25.59	2.75976	-16.02	25	-9.57	-27.42	1.81134	-30.23	0.94842
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2491.976	-51.85	0.00653	-16.02	25	-35.83	-53.68	0.00429	-56.48	0.00225
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2497.75	-53.76	0.00421	-26.02	2.5	-27.74	-57.04	0.00198	-56.52	0.00223
2442MHz_TnomVnom	Pass	30M	2.387G	1M	704.102	-42.34	0.05828	-26.02	2.5	-16.32	-45.01	0.03155	-45.73	0.02673
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.974	-51.03	0.00788	-16.02	25	-35.01	-54.29	0.00372	-53.81	0.00416
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2484.514	-52.08	0.00619	-16.02	25	-36.06	-55.47	0.00284	-54.75	0.00335
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2521.509	-52.62	0.00547	-26.02	2.5	-26.60	-54.81	0.0033	-56.65	0.00216
2472MHz_TnomVnom	Pass	30M	2.387G	1M	733.564	-42.06	0.06221	-26.02	2.5	-16.04	-46.18	0.0241	-44.19	0.03811
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2391.992	-52.55	0.00556	-16.02	25	-36.53	-54.62	0.00345	-56.76	0.00211
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.526	-22.02	6.28643	-16.02	25	-6.00	-23.34	4.63447	-27.82	1.65196
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2496.5	-45.14	0.03062	-26.02	2.5	-19.12	-47.81	0.01656	-48.52	0.01406
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	2.387G	1M	673.461	-40.74	0.08434	-26.02	2.5	-14.72	-43.72	0.04246	-43.78	0.04188
2412MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.974	-23.42	4.54767	-16.02	25	-7.40	-25.31	2.94442	-27.95	1.60325
2412MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2492.002	-51.90	0.00646	-16.02	25	-35.88	-53.87	0.0041	-56.27	0.00236
2412MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2497.75	-53.53	0.00443	-26.02	2.5	-27.51	-57.27	0.00187	-55.92	0.00256
2442MHz_TnomVnom	Pass	30M	2.387G	1M	702.923	-41.09	0.07772	-26.02	2.5	-15.07	-44.32	0.03698	-43.90	0.04074
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.948	-50.11	0.00976	-16.02	25	-34.09	-53.82	0.00415	-52.51	0.00561
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.916	-51.00	0.00794	-16.02	25	-34.98	-54.78	0.00333	-53.36	0.00461
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2521.509	-52.37	0.00579	-26.02	2.5	-26.35	-54.57	0.00349	-56.38	0.0023
2472MHz_TnomVnom	Pass	30M	2.387G	1M	733.564	-41.31	0.07393	-26.02	2.5	-15.29	-45.09	0.03097	-43.67	0.04295
2472MHz_TnomVnom	Pass	2.387G	2.4G	1M	2391.94	-52.88	0.00515	-16.02	25	-36.86	-55.22	0.00301	-56.69	0.00214
2472MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.526	-19.39	11.49632	-16.02	25	-3.37	-20.83	8.26038	-24.90	3.23594
2472MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2496.5	-37.31	0.18583	-26.02	2.5	-11.29	-38.79	0.13213	-42.70	0.0537
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	30M	2.387G	1M	2387	-29.32	1.16815	-26.02	2.5	-3.30	-31.31	0.73961	-33.68	0.42855
2422MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.948	-24.14	3.85818	-16.02	25	-8.12	-26.01	2.50611	-28.69	1.35207
2422MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.526	-47.21	0.01902	-16.02	25	-31.19	-50.68	0.00855	-49.80	0.01047
2422MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2496.5	-51.72	0.00673	-26.02	2.5	-25.70	-55.06	0.00312	-54.42	0.00361
2442MHz_TnomVnom	Pass	30M	2.387G	1M	704.102	-42.38	0.05778	-26.02	2.5	-16.36	-45.54	0.02793	-45.25	0.02985
2442MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.948	-31.07	0.78145	-16.02	25	-15.05	-33.61	0.43551	-34.61	0.34594
2442MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.526	-32.21	0.60131	-16.02	25	-16.19	-33.77	0.41976	-37.41	0.18155
2442MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2497.75	-43.99	0.03989	-26.02	2.5	-17.97	-48.14	0.01535	-46.10	0.02455
2462MHz_TnomVnom	Pass	30M	2.387G	1M	724.136	-43.65	0.04314	-26.02	2.5	-17.63	-46.33	0.02328	-47.02	0.01986
2462MHz_TnomVnom	Pass	2.387G	2.4G	1M	2399.636	-47.52	0.0177	-16.02	25	-31.50	-51.06	0.00783	-50.06	0.00986
2462MHz_TnomVnom	Pass	2.4835G	2.4965G	1M	2483.578	-22.90	5.13141	-16.02	25	-6.88	-24.17	3.82825	-28.85	1.30317
2462MHz_TnomVnom	Pass	2.4965G	12.5G	1M	2499.001	-29.28	1.1799	-26.02	2.5	-3.26	-30.08	0.98175	-37.03	0.19815

802.11b_Nss1_2TX

CSE-TX

2412MHz_TnomVnom

12/10/2018

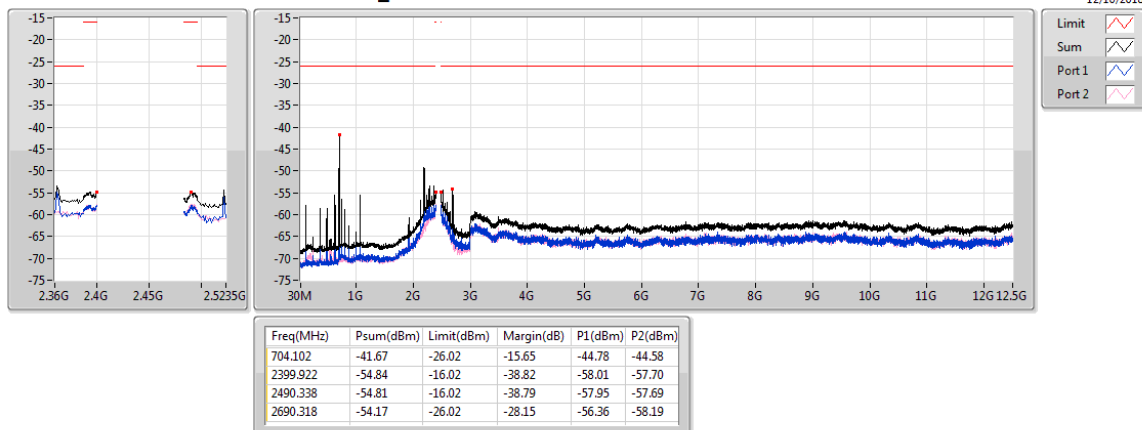


802.11b_Nss1_2TX

CSE-TX

2442MHz_TnomVnom

12/10/2018

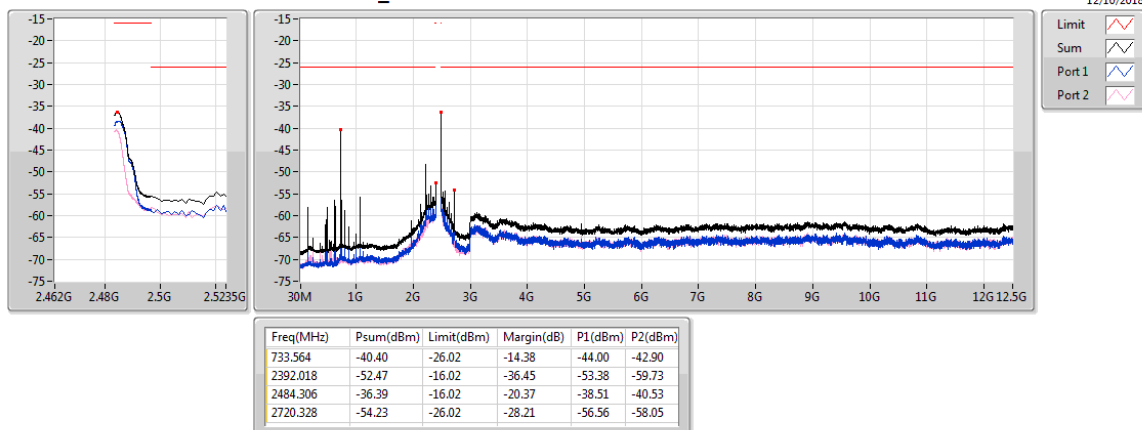


802.11b_Nss1_2TX

CSE-TX

2472MHz_TnomVnom

12/10/2018

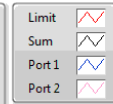
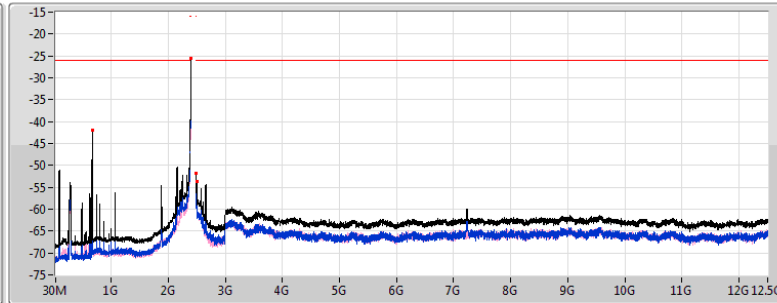
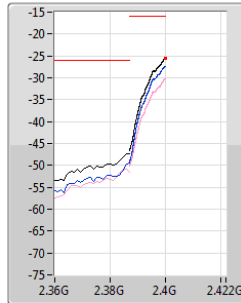


802.11g_Nss1_2TX

CSE-TX

2412MHz_TnomVnom

12/10/2018



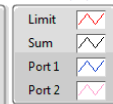
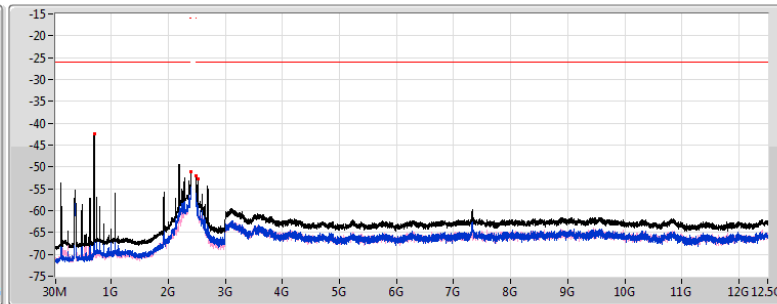
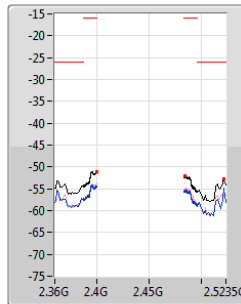
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
673.461	-41.97	-26.02	-15.95	-44.32	-45.76
2399.974	-25.59	-16.02	-9.57	-27.42	-30.23
2491.976	-51.85	-16.02	-35.83	-53.68	-56.48
2497.75	-53.76	-26.02	-27.74	-57.04	-56.52

802.11g_Nss1_2TX

CSE-TX

2442MHz_TnomVnom

12/10/2018



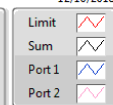
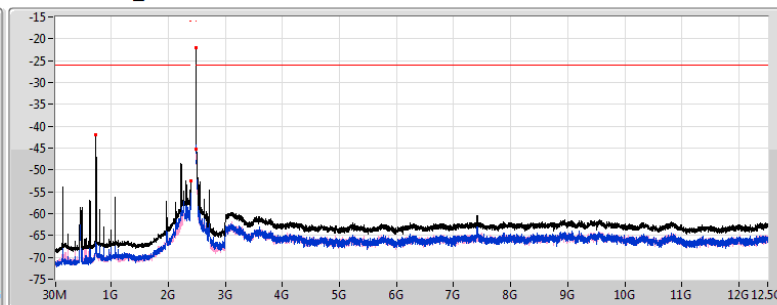
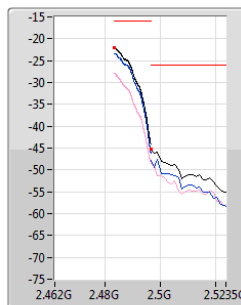
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
704.102	-42.34	-26.02	-16.32	-45.01	-45.73
2399.974	-51.03	-16.02	-35.01	-54.29	-53.81
2484.514	-52.08	-16.02	-36.06	-55.47	-54.75
2521.509	-52.62	-26.02	-26.60	-54.81	-56.65

802.11g_Nss1_2TX

CSE-TX

2472MHz_TnomVnom

12/10/2018



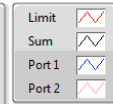
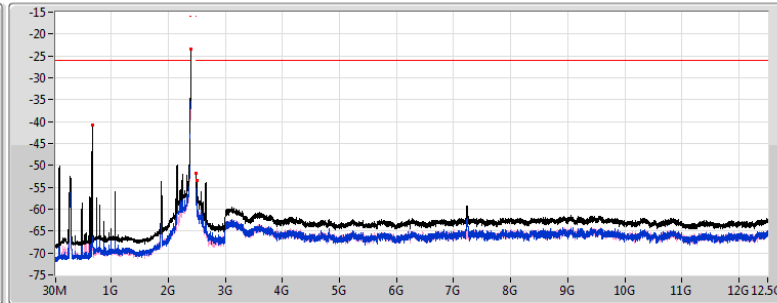
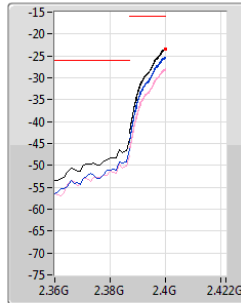
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
733.564	-42.06	-26.02	-16.04	-46.18	-44.19
2391.992	-52.55	-16.02	-36.53	-54.62	-56.76
2483.526	-22.02	-16.02	-6.00	-23.34	-27.82
2496.5	-45.14	-26.02	-19.12	-47.81	-48.52

802.11n HT20_Nss1,(MCS0)_2TX

CSE-TX

2412MHz_TnomVnom

12/10/2018



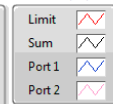
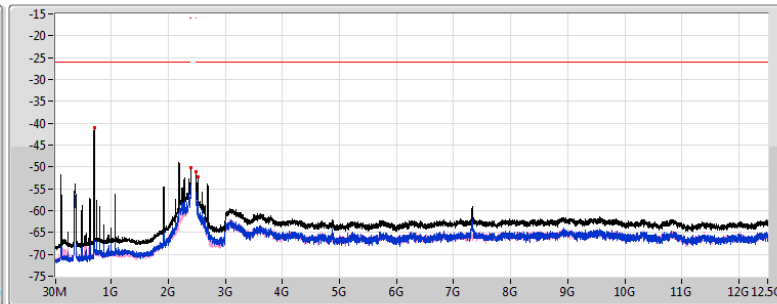
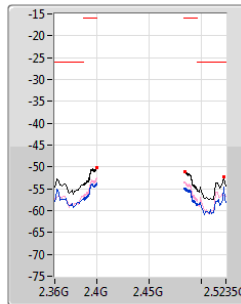
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
673.461	-40.74	-26.02	-14.72	-43.72	-43.78
2399.974	-23.42	-16.02	-7.40	-25.31	-27.95
2492.002	-51.90	-16.02	-35.88	-53.87	-56.27
2497.75	-53.53	-26.02	-27.51	-57.27	-55.92

802.11n HT20_Nss1,(MCS0)_2TX

CSE-TX

2442MHz_TnomVnom

12/10/2018



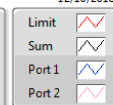
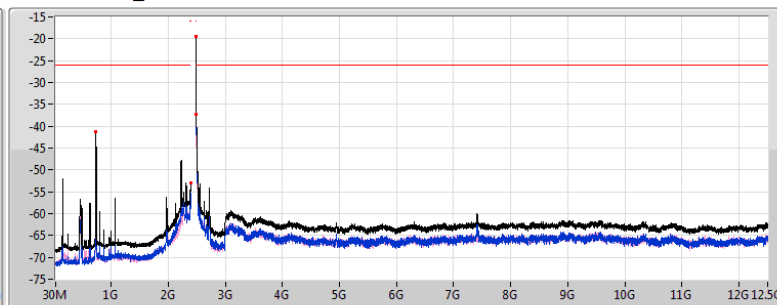
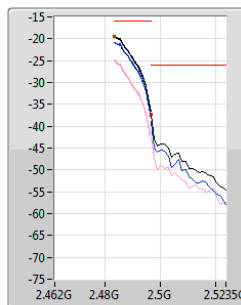
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
702.923	-41.09	-26.02	-15.07	-44.32	-43.90
2399.948	-50.11	-16.02	-34.09	-53.82	-52.51
2483.916	-51.00	-16.02	-34.98	-54.78	-53.36
2521.509	-52.37	-26.02	-26.35	-54.57	-56.38

802.11n HT20_Nss1,(MCS0)_2TX

CSE-TX

2472MHz_TnomVnom

12/10/2018



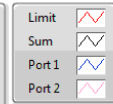
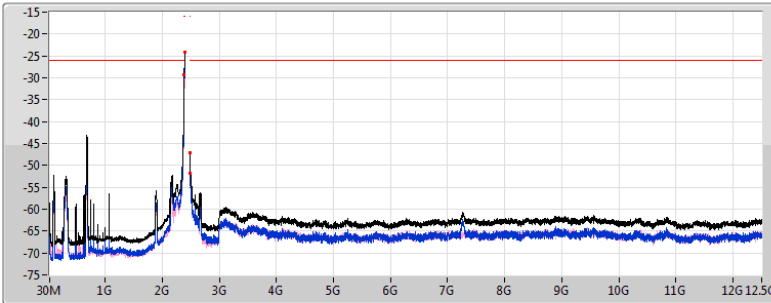
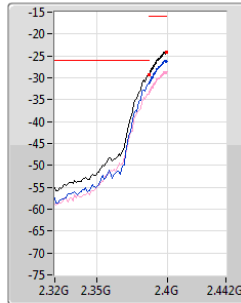
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
733.564	-41.31	-26.02	-15.29	-45.09	-43.67
2391.94	-52.88	-16.02	-36.86	-55.22	-56.69
2483.526	-19.39	-16.02	-3.37	-20.83	-24.90
2496.5	-37.31	-26.02	-11.29	-38.79	-42.70

802.11n HT40_Nss1,(MCS0)_2TX

CSE-TX

2422MHz_TnomVnom

12/10/2018



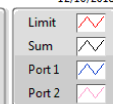
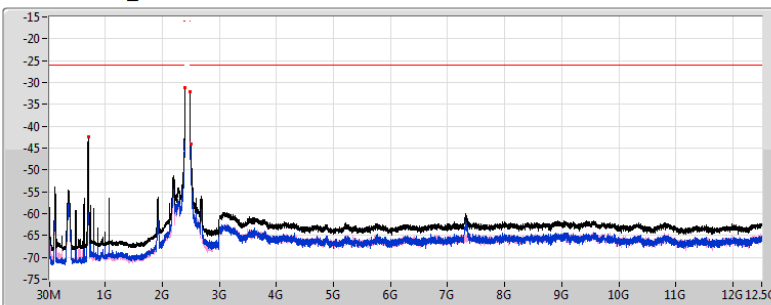
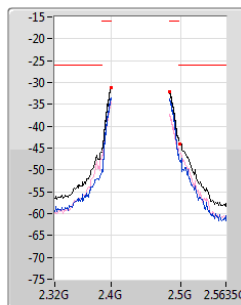
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
2387	-29.32	-26.02	-3.30	-31.31	-33.68
2399.948	-24.14	-16.02	-8.12	-26.01	-28.69
2483.526	-47.21	-16.02	-31.19	-50.68	-49.80
2496.5	-51.72	-26.02	-25.70	-55.06	-54.42

802.11n HT40_Nss1,(MCS0)_2TX

CSE-TX

2442MHz_TnomVnom

12/10/2018



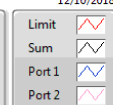
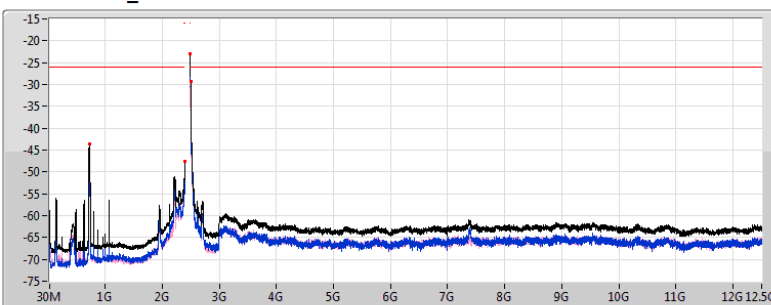
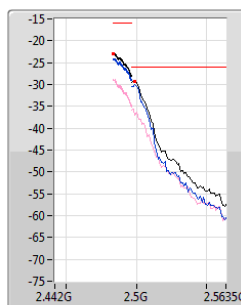
Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
704.102	-42.38	-26.02	-16.36	-45.54	-45.25
2399.948	-31.07	-16.02	-15.05	-33.61	-34.61
2483.526	-32.21	-16.02	-16.19	-33.77	-37.41
2497.75	-43.99	-26.02	-17.97	-48.14	-46.10

802.11n HT40_Nss1,(MCS0)_2TX

CSE-TX

2462MHz_TnomVnom

12/10/2018



Freq(MHz)	Psum(dBm)	Limit(dBm)	Margin(dB)	P1(dBm)	P2(dBm)
724.136	-43.65	-26.02	-17.63	-46.33	-47.02
2399.636	-47.52	-16.02	-31.50	-51.06	-50.06
2483.578	-22.90	-16.02	-6.88	-24.17	-28.85
2499.001	-29.28	-26.02	-3.26	-30.08	-37.03

**Summary**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW/MHz)	Limit (dBm)	Limit (nW/MHz)	Margin (dB)	P1 (dBm)	P1 (nW/MHz)	P2 (dBm)	P2 (nW/MHz)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1_2TX	Pass	30M	1G	100k	480.08	-75.86	0.02594	-53.98	4	-21.88	-81.88	0.00649	-77.11	0.01945
802.11g_Nss1_2TX	Pass	30M	1G	100k	480.08	-75.78	0.02644	-53.98	4	-21.80	-80.19	0.00957	-77.73	0.01687
802.11n HT20_Nss1,(MCS0)_2TX	Pass	30M	1G	100k	480.08	-75.66	0.02718	-53.98	4	-21.68	-80.83	0.00826	-77.23	0.01892
802.11n HT40_Nss1,(MCS0)_2TX	Pass	30M	1G	100k	480.08	-75.72	0.02678	-53.98	4	-21.74	-81.17	0.00764	-77.18	0.01914

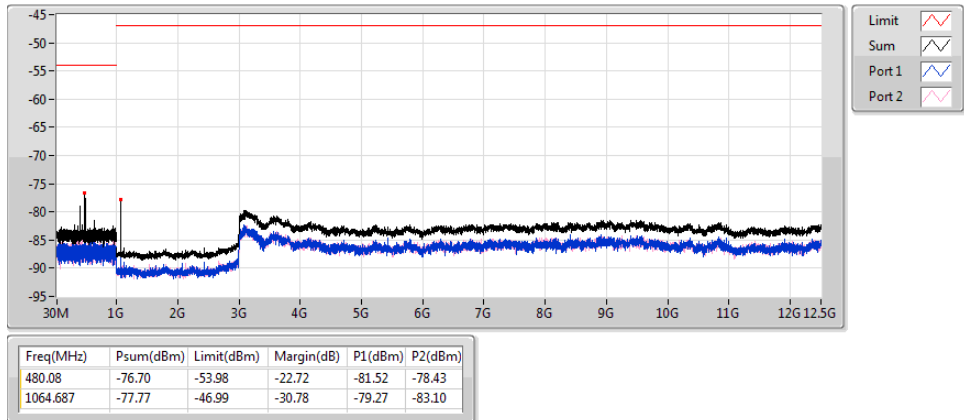
**Result**

Mode	Result	F-Start (Hz)	F-Stop (Hz)	RBW (Hz)	Freq (MHz)	Psum (dBm)	Psum (nW/MHz)	Limit (dBm)	Limit (nW/MHz)	Margin (dB)	P1 (dBm)	P1 (nW/MHz)	P2 (dBm)	P2 (nW/MHz)
802.11b_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.70	0.0214	-53.98	4	-22.72	-81.52	0.00705	-78.43	0.01435
2412MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.77	0.01673	-46.99	20	-30.78	-79.27	0.01183	-83.10	0.0049
2442MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.86	0.02594	-53.98	4	-21.88	-81.88	0.00649	-77.11	0.01945
2442MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.87	0.01635	-46.99	20	-30.88	-79.50	0.01122	-82.90	0.00513
2472MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.09	0.02459	-53.98	4	-22.11	-80.55	0.00881	-78.02	0.01578
2472MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.88	0.01629	-46.99	20	-30.89	-79.43	0.0114	-83.11	0.00489
802.11g_Nss1_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.78	0.02644	-53.98	4	-21.80	-80.19	0.00957	-77.73	0.01687
2412MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-78.04	0.01571	-46.99	20	-31.05	-79.62	0.01091	-83.19	0.0048
2442MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.95	0.0254	-53.98	4	-21.97	-81.45	0.00716	-77.39	0.01824
2442MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-78.00	0.01585	-46.99	20	-31.01	-79.61	0.01094	-83.09	0.00491
2472MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.73	0.02122	-53.98	4	-22.75	-81.51	0.00706	-78.49	0.01416
2472MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.86	0.01637	-46.99	20	-30.87	-79.48	0.01127	-82.93	0.00509
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.97	0.02009	-53.98	4	-22.99	-81.46	0.00714	-78.88	0.01294
2412MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.59	0.01743	-46.99	20	-30.60	-78.99	0.01262	-83.18	0.00481
2442MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.66	0.02718	-53.98	4	-21.68	-80.83	0.00826	-77.23	0.01892
2442MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.63	0.01724	-46.99	20	-30.64	-79.21	0.01199	-82.80	0.00525
2472MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.66	0.02156	-53.98	4	-22.68	-82.19	0.00604	-78.09	0.01552
2472MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.66	0.01712	-46.99	20	-30.67	-79.48	0.01127	-82.33	0.00585
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.72	0.02678	-53.98	4	-21.74	-81.17	0.00764	-77.18	0.01914
2422MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.84	0.01643	-46.99	20	-30.85	-79.29	0.01178	-83.32	0.00466
2442MHz_TnomVnom	Pass	30M	1G	100k	480.08	-76.57	0.02203	-53.98	4	-22.59	-81.77	0.00665	-78.13	0.01538
2442MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-78.02	0.01578	-46.99	20	-31.03	-79.66	0.01081	-83.04	0.00497
2462MHz_TnomVnom	Pass	30M	1G	100k	480.08	-75.76	0.02654	-53.98	4	-21.78	-81.21	0.00757	-77.22	0.01897
2462MHz_TnomVnom	Pass	1G	12.5G	1M	1064.687	-77.86	0.01638	-46.99	20	-30.87	-79.38	0.01153	-83.15	0.00484

802.11b_Nss1_2TX

CSE-RX

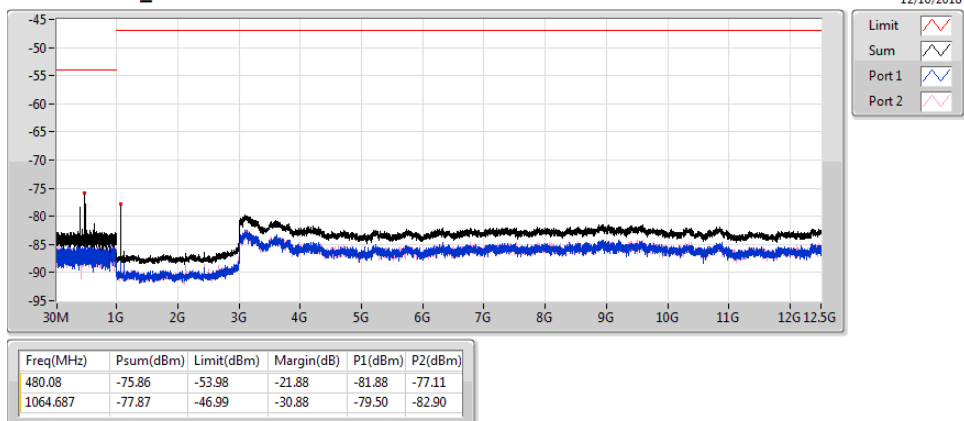
2412MHz_TnomVnom



802.11b_Nss1_2TX

CSE-RX

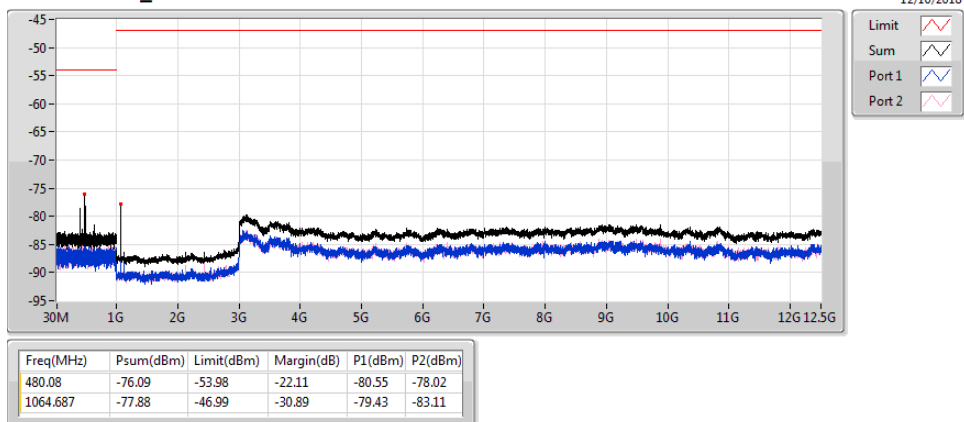
2442MHz_TnomVnom



802.11b_Nss1_2TX

CSE-RX

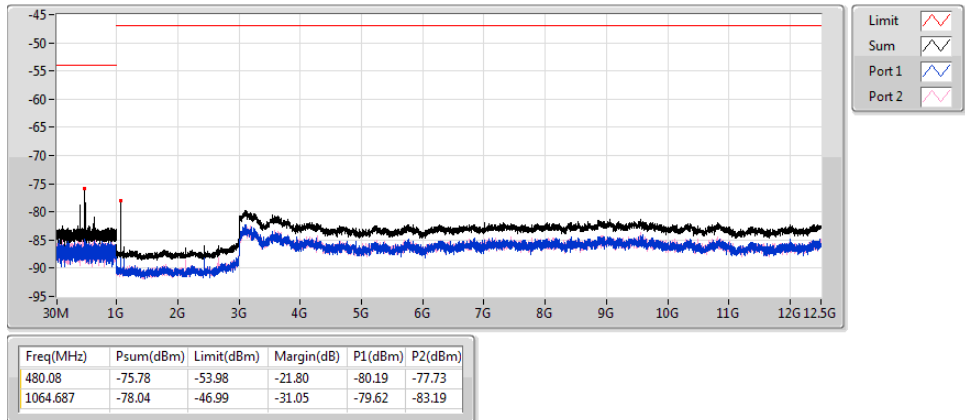
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802.11g_Nss1_2TX

CSE-RX

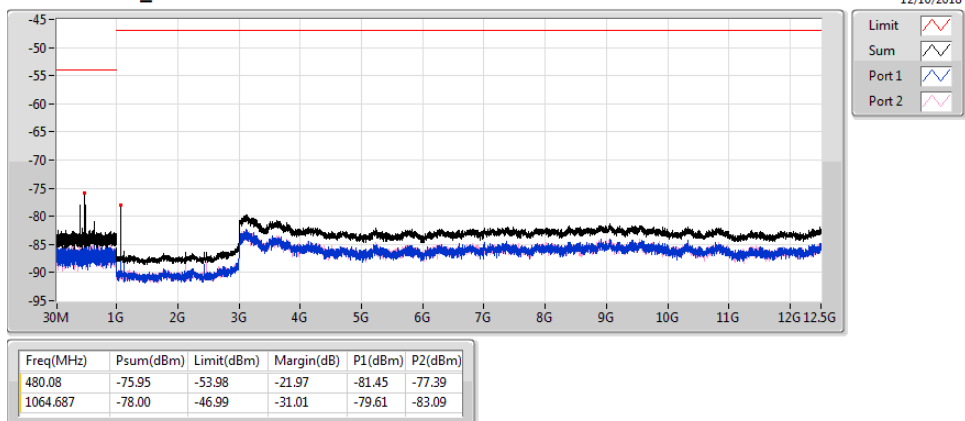
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802.11g_Nss1_2TX

CSE-RX

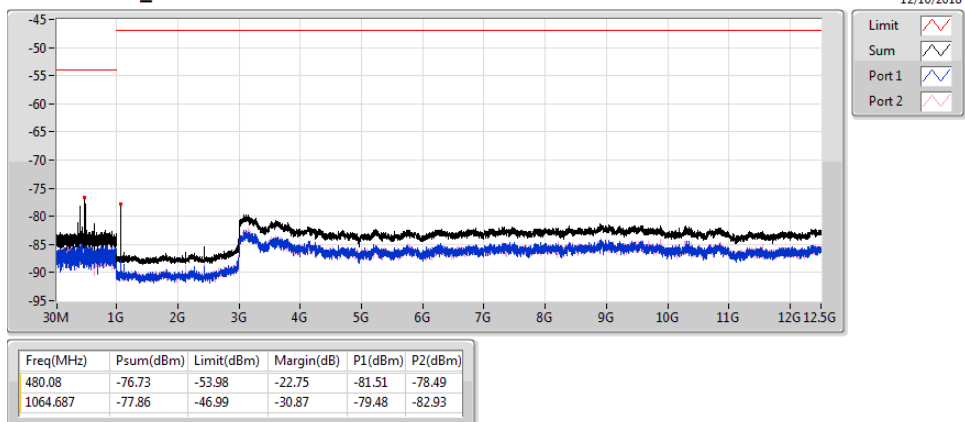
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802.11g_Nss1_2TX

CSE-RX

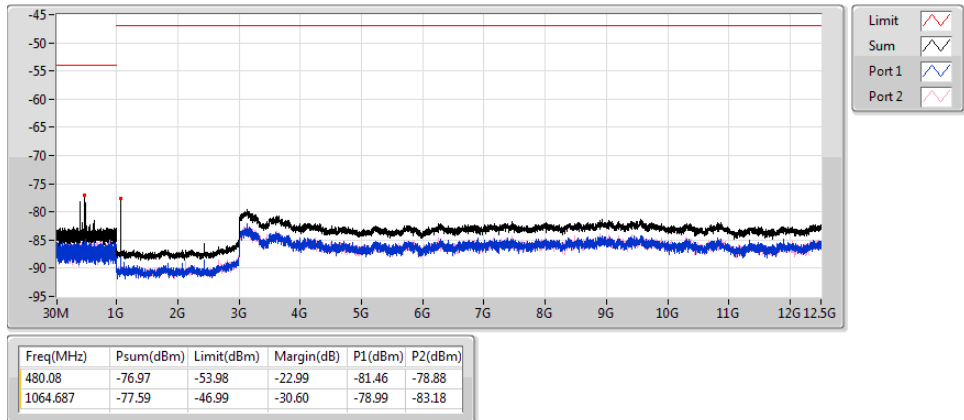
2472MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

CSE-RX

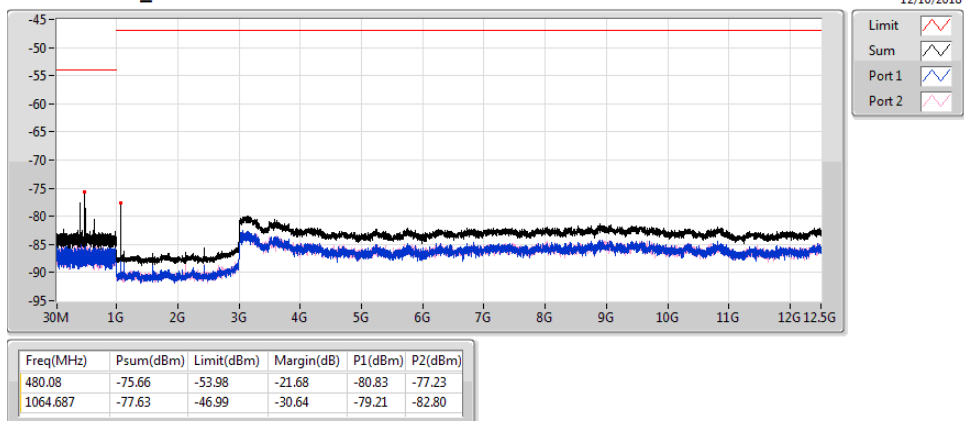
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802.11n HT20_Nss1,(MCS0)_2TX

CSE-RX

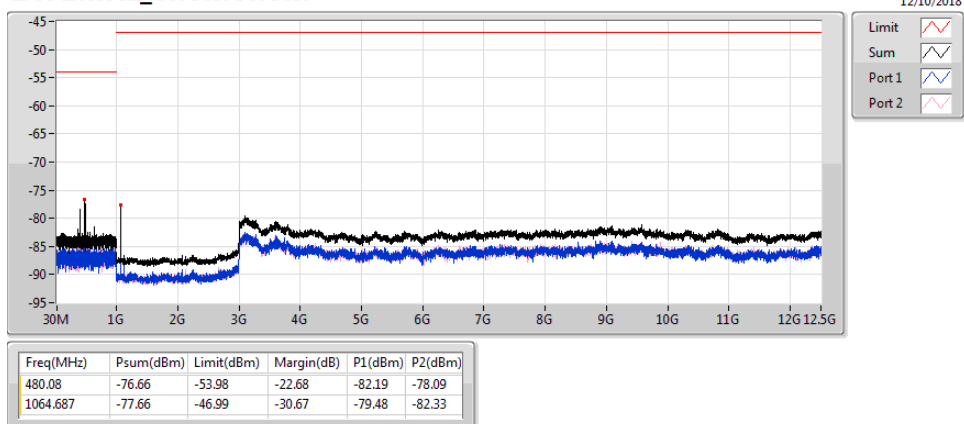
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802.11n HT20_Nss1,(MCS0)_2TX

CSE-RX

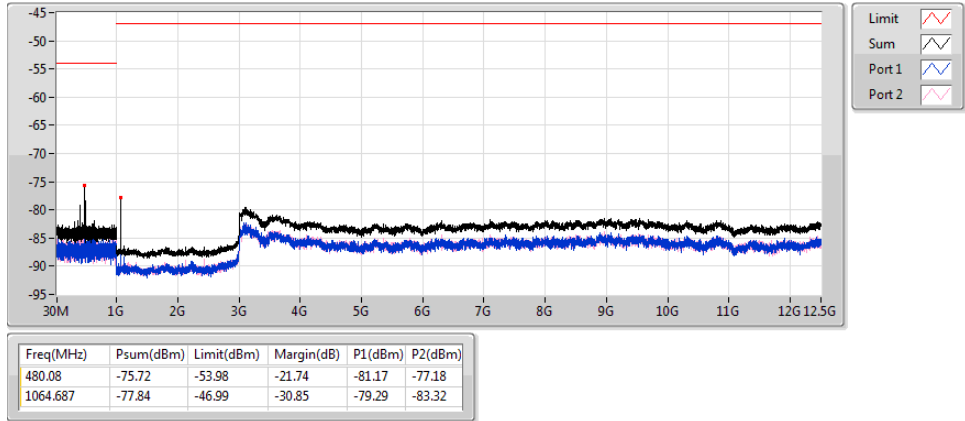
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802.11n HT40_Nss1,(MCS0)_2TX

CSE-RX

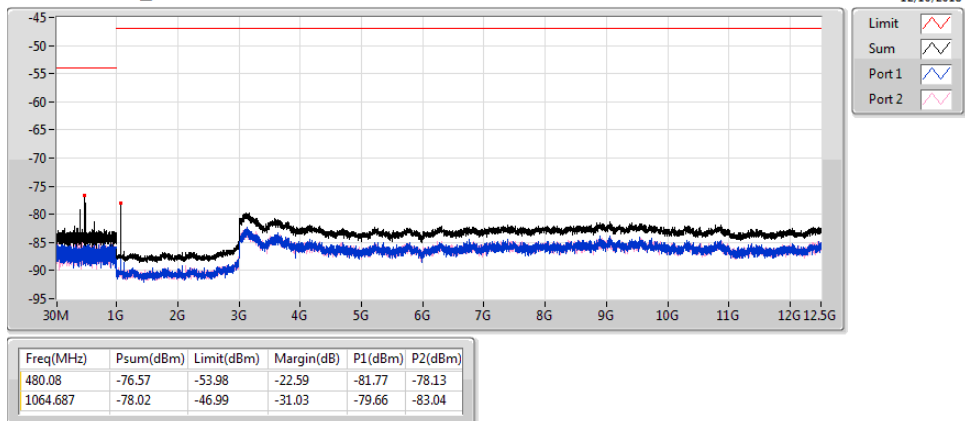
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802.11n HT40_Nss1,(MCS0)_2TX

CSE-RX

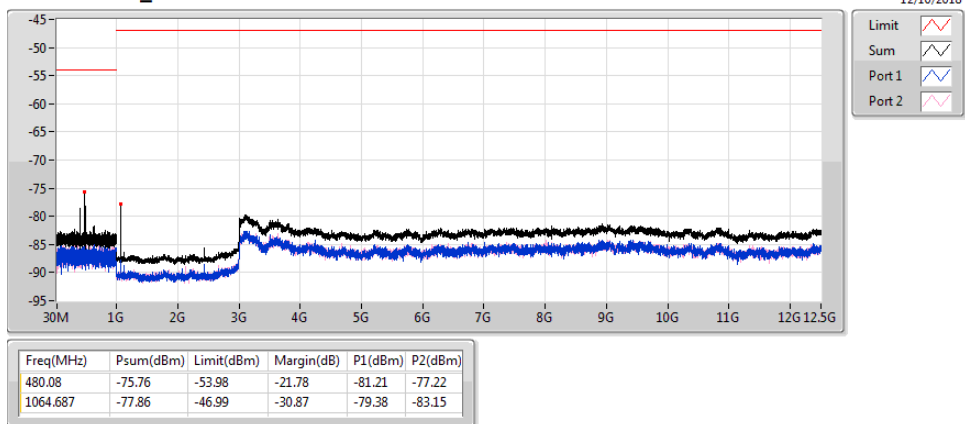
2442MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

CSE-RX

2462MHz_TnomVnom



Summary

Mode	Result	MAC	ID Length	ID Limit	Function
2.4-2.4835GHz	-		-	-	-
802.11b_Nss1_2TX	Pass	56-aa-a5-5a-7d-e8	48 bits	48 bits	Good
802.11g_Nss1_2TX	Pass	56-aa-a5-5a-7d-e8	48 bits	48 bits	Good
802.11n HT20_Nss1,(MCS0)_2TX	Pass	56-aa-a5-5a-7d-e8	48 bits	48 bits	Good
802.11n HT40_Nss1,(MCS0)_2TX	Pass	56-aa-a5-5a-7d-e8	48 bits	48 bits	Good

Result

Mode	Result	ID Length	ID Limit	Function
802.11b_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	48 bits	48 bits	Good
2442MHz_TnomVnom	Pass	48 bits	48 bits	Good
2472MHz_TnomVnom	Pass	48 bits	48 bits	Good
802.11g_Nss1_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	48 bits	48 bits	Good
2442MHz_TnomVnom	Pass	48 bits	48 bits	Good
2472MHz_TnomVnom	Pass	48 bits	48 bits	Good
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-
2412MHz_TnomVnom	Pass	48 bits	48 bits	Good
2442MHz_TnomVnom	Pass	48 bits	48 bits	Good
2472MHz_TnomVnom	Pass	48 bits	48 bits	Good
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-
2422MHz_TnomVnom	Pass	48 bits	48 bits	Good
2442MHz_TnomVnom	Pass	48 bits	48 bits	Good
2462MHz_TnomVnom	Pass	48 bits	48 bits	Good

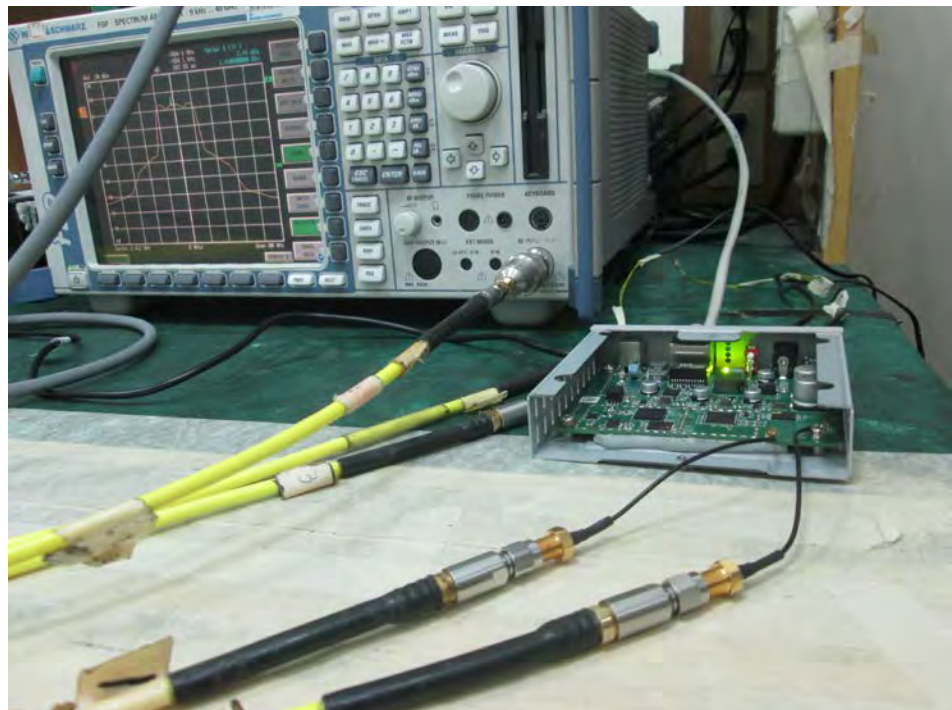
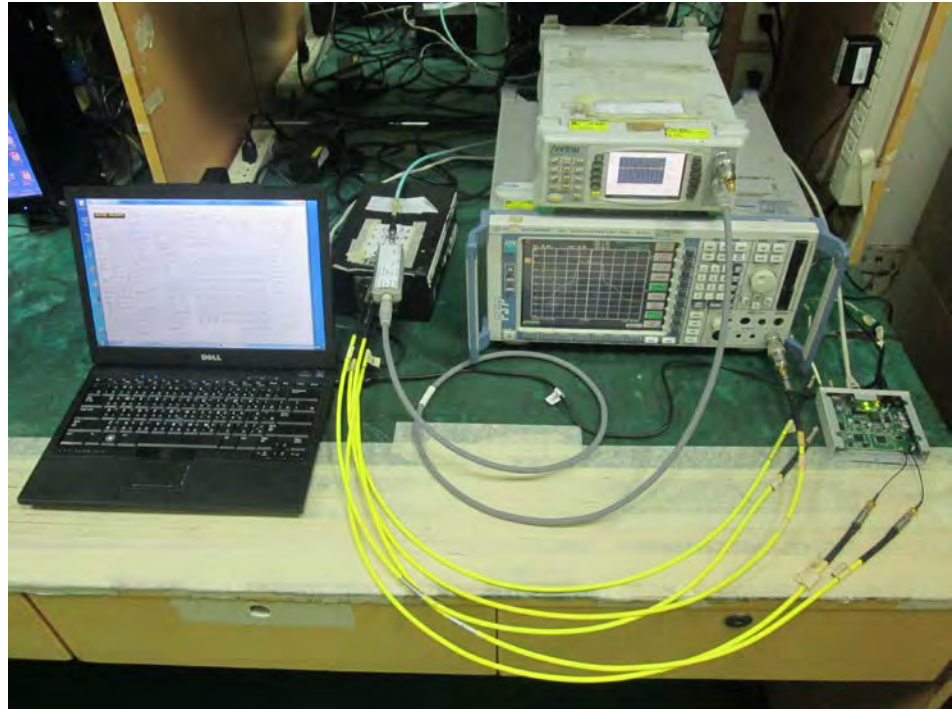
**Summary**

Mode	Result	Interference Pin (dBm)	Function
2.4-2.4835GHz	-	-	-
802.11b_Nss1_2TX	Pass	OBW<26MHz	w/o test
802.11g_Nss1_2TX	Pass	OBW<26MHz	w/o test
802.11n HT20_Nss1,(MCS0)_2TX	Pass	OBW<26MHz	w/o test
802.11n HT40_Nss1,(MCS0)_2TX	Pass	Defined	Good

Result

Mode	Result	Interference Pin (dBm)	Function
802.11b_Nss1_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11g_Nss1_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-
2412MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2442MHz_TnomVnom	Pass	OBW<26MHz	w/o test
2472MHz_TnomVnom	Pass	OBW<26MHz	w/o test
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-
2422MHz_TnomVnom	Pass	Defined	Good
2442MHz_TnomVnom	Pass	Defined	Good
2462MHz_TnomVnom	Pass	Defined	Good

1. Photographs of Test Configuration



————THE END————