

CE Test Report

Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module
Model No. : SU60-SOMC (453-00003),
SU60-SOMC-2G (453-00004)
(please refer to section 1.1.1 for more details.)
Brand Name : Laird Connectivity
Applicant : Laird Connectivity, Inc.
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : EN 300 328 V2.2.2 (2019-07)
Received Date : Apr. 15, 2020
Tested Date : Sep. 19 ~ Oct. 03, 2018 (for original test)
Apr. 15, 2020 (for new test)

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:


James Fan / Assistant Manager

Approved by:


Gary Chang / Manager

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Release Record

Report No.	Version	Description	Issued Date
ER841101-02AC	Rev. 01	Initial issue	Apr. 27, 2020

Summary of Test Results

Ref. Std. Clause	Test Items	Measured	Result
4.3.2.2	RF Output Power	19.09 dBm.	Pass
4.3.2.3	Power Spectral Density	Meet the requirement of limit.	Pass
4.3.2.4	Duty Cycle, Tx-sequence, Tx-gap	Only for non-adaptive equipment.	N/A
4.3.2.5	Medium Utilisation (MU) factor	Only for non-adaptive equipment.	N/A
4.3.2.6	Adaptivity	Meet the requirement of limit.	Pass
4.3.2.7	Occupied Channel Bandwidth	Meet the requirement of limit.	Pass
4.3.2.8	Transmitter unwanted emissions in the out of band domain	Meet the requirement of limit.	Pass
4.3.2.9	Transmitter unwanted emissions in the spurious domain	Meet the requirement of limit.	Pass
4.3.2.10	Receiver spurious emissions	Meet the requirement of limit.	Pass
4.3.2.11	Receiver Blocking	Meet the requirement of limit.	Pass
4.3.2.12	Geo-location Capability	The device has no this capability.	N/A

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

This report is issued as a supplementary report to original ICC report no. ER841101AC. The difference is concerned with following items:

- ✧ Updating standard version from V2.1.1 to V2.2.2.
- ✧ New applicant name.

Therefore, related test items had been performed and presented in the following sections.

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Laird	SU60-SOMC (453-00003)	802.11ac Professional Wi-Fi + BT5.0 Module	2G/1G MCP
	SU60-SOMC-2G (453-00004)		4G/2G MCP
★ The above models, both options were assessed and SU60-SOMC-2G (453-00004) was found to be worst case and was selected for the final testing.			

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2472	1-13 [13]	1	1-11 Mbps
				2	1-11 Mbps
2400-2483.5	g	2412-2472	1-13 [13]	1	6-54 Mbps
				2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2472	1-13 [13]	1	MCS 0-7
				2	MCS 0-7
				2	MCS 8-15
2400-2483.5	n (HT40)	2422-2462	3-11 [9]	1	MCS 0-7
				2	MCS 0-7
				2	MCS 8-15

Note 1: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.

Note 2: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.

Note 3: The device supports TX antenna diversity function. The conducted power of single chain is same for 1TX and 2TX operating mode. Therefore, Ant1 + Ant 2 configuration is chosen for final testing.

1.1.3 Antenna Details

No.	Brand	Model	Type	Connector	Gain (dBi)
1	LSR	001-0009	Dipole	IPEX U.FL	2
2	Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2
3	Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79
4	LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5
5	Ethertronics	WLAN_1000146	Magnetic Dipole	IPEX U.FL	2.5
6	Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2
7	LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2

1.1.4 EUT Operational Condition

Power Supply Type	3.3 Vdc from host		
SW Version	6.0.0.x		
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (85°C)	☒ Tmin (-30°C)

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand Name: I.T.E POWER SUPPLY Model Name: MU12AY120100-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded cable without core

1.1.6 Adaptive Equipment

Adaptive Equipment	
☐	non-Adaptive Equipment:
	The maximum RF Output Power (e.i.r.p.): dBm
	The maximum (corresponding) Duty Cycle: %
☒	Adaptive Equipment without the possibility to switch to a non-adaptive mode:
☒	The equipment has implemented an LBT based DAA mechanism:
	☐ The equipment is Frame Based equipment
	☒ The equipment is Load Based equipment
	☐ The equipment can switch dynamically between Frame Based and Load Based equipment
☐	The equipment has implemented an non-LBT based DAA mechanism
☐	The equipment can operate in more than one adaptive mode
☐	Adaptive Frequency Hopping using other forms of DAA (non-LBT based)/without Short Control Signaling Transmissions
☐	Adaptive Equipment which can also operate in a non-adaptive mode

1.1.7 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	10	2457
9	2452	11	2462
10	2457	---	---
11	2462	---	---
12	2467	---	---
13	2472	---	---

1.1.8 Test Tool and Duty Cycle

Test Tool	Test Command	
Modulation Mode	Duty Cycle Of Test Signal (%)	Duty Factor (dB)
b	100.00%	0
g	100.00%	0
n (HT20)	100.00%	0
n (HT40)	100.00%	0

1.1.9 Power Setting

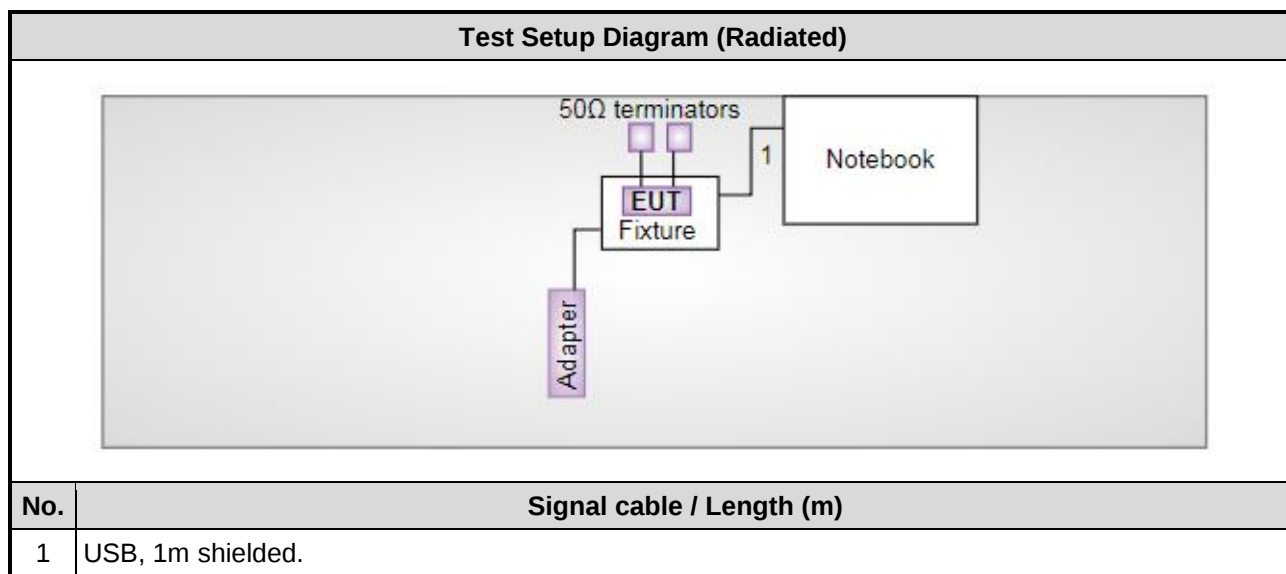
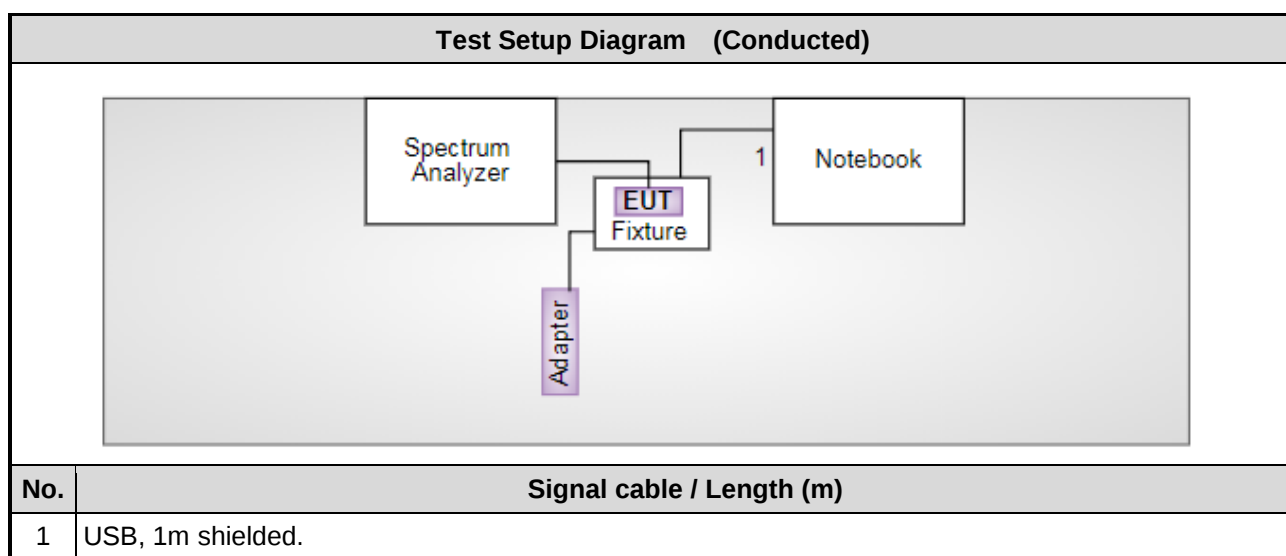
Modulation Mode	Test Frequency (MHz)					
	b / g / n (HT20)			n (HT40)		
	2412	2442	2472	2422	2442	2462
b	Default	Default	Default	---	---	---
g	Default	Default	Default	---	---	---
n (HT20)	Default	Default	Default	---	---	---
n (HT40)	---	---	---	Default	Default	Default

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	S/N	Remarks
1	Notebook	DELL	Latitude E6430	F2JB4X1	---
2	Notebook	DELL	Latitude E6430	D3LNYW1	---
3	Fixture	---	---	---	Provided by applicant.

Note: Fixture is provided by applicant.

1.3 Test Setup Chart



1.4 Test Equipment List and Calibration Data

For original test

Test Item	Radiated Emissions				
Test Site	Fully-anechoic chamber 2 / (05CH02-WS)				
Tested Date	Sep. 20, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY52221474	Oct. 16, 2017	Oct. 15, 2018
Bilog Antenna 30-1000MHz	SCHWARZBECK	VULB9168	9168-563	Jan. 02, 2018	Jan. 01, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	9120D-1205	Jan. 11, 2018	Jan. 10, 2019
Preamplifier	Agilent	83017A	MY53270013	Dec. 26, 2017	Dec. 25, 2018
Preamplifier	EMC	EMC02325	980188	Dec. 12, 2017	Dec. 11, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22622/4	Dec. 05, 2017	Dec. 04, 2018
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22623/4	Dec. 05, 2017	Dec. 04, 2018
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22621/4	Dec. 05, 2017	Dec. 04, 2018
RF cable-4M	HUBER+SUHNER	SUCOFLEX104	MY22579/4	Dec. 05, 2017	Dec. 04, 2018
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-002	Dec. 05, 2017	Dec. 04, 2018
LF cable-3M	EMC	EMC8D-NM-NM-3000	131102	Dec. 05, 2017	Dec. 04, 2018
LF cable-10M	EMC	EMC8D-NM-NM-10000	131101	Dec. 05, 2017	Dec. 04, 2018
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 03, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101486	Nov. 21, 2017	Nov. 20, 2018
Power Sensor	Agilent	U2021XA	MY53480019	Jan. 29, 2018	Jan. 28, 2019
Power Sensor	Agilent	U2021XA	MY53510003	Jan. 29, 2018	Jan. 28, 2019
Power Sensor	Agilent	U2021XA	MY54070003	Feb. 08, 2018	Feb. 07, 2019
Power Sensor	Agilent	U2021XA	MY54060013	Feb. 08, 2018	Feb. 07, 2019
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Combiner(1X2)	woken	0120A02201801O	DOM2AEW1A23	Dec. 04, 2017	Dec. 03, 2018
Combiner(1X4)	woken	0120A04056002D	111204	Dec. 04, 2017	Dec. 03, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Measurement Software	Agilent	EN RF test	1.1501125	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Adaptivity				
Test Site	(TH01-WS)				
Tested Date	Sep. 26, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum	R&S	FSV-7	101607	Dec. 14, 2017	Dec. 13, 2018
Signal Generator	R&S	SMB 100A	175727	Oct. 26, 2017	Oct. 25, 2018
RF cable-4M	HUBER+SUHNER	SUCOFLEX_104	MY15686/4	Nov. 24, 2017	Nov. 23, 2018
RF cable-0.5M	HUBER+SUHNER	SUCOFLEX_104	296081/4	Dec. 07, 2017	Dec. 06, 2018
RF cable-0.2M	HUBER+SUHNER	SUCOFLEX_104	329023/4	Dec. 07, 2017	Dec. 06, 2018
RF cable-0.2M	HUBER+SUHNER	SUCOFLEX_104	329021/4	Dec. 07, 2017	Dec. 06, 2018
MXG-B RF Vector Signal Generator	Agilent	N5182B	MY53050081	Apr. 16, 2018	Apr. 15, 2019
Preamplifier	Burgeon	BPA-530	100219	Nov. 08, 2017	Nov. 07, 2018
Oscilloscope	National Instruments	USB-5133	F651FF	Jun. 19, 2018	Jun. 18, 2019
Measurement Software	Sporton	Sporton_3	2.2.0.0	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

For new test

Test Item	Receiver Blocking				
Test Site	(05CH01-WS)				
Tested Date	Apr. 15, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Wireless connectivity tester	ROHDE&SCHWARZ	CMW270	100856	Oct. 24, 2019	Oct. 23, 2020
Signal Generator	ROHDE&SCHWARZ	SMB100A	175727	Dec. 27, 2019	Dec. 26, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX_104	500202/4	Oct. 16, 2019	Oct. 15, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX_104	296088/4	Oct. 16, 2019	Oct. 15, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX_104	329023/4	Oct. 16, 2019	Oct. 15, 2020
Combiner(1X2)	WOKEN	2WAYDIV	12101200003	Oct. 16, 2019	Oct. 15, 2020
Note: Calibration Interval of instruments listed above is one year.					

1.5 Testing Applied Standards

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

EN 300 328 V2.2.2 (2019-07)

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$))

Measurement Uncertainty		
Parameters	Uncertainty	Limit
Occupied Channel Bandwidth	± 0.0034 %	± 5 %
RF output power, conducted	± 0.537 dB	± 1.5 dB
Power Spectral Density, conducted	± 0.463 dB	± 3 dB
Unwanted Emissions, conducted	± 2.505 dB	± 3 dB
All emissions, radiated	± 3.401 dB	± 6 dB
Temperature	± 0.6 °C	± 3 °C
Supply voltages	± 0.16 %	± 3 %
Time	± 0.1 %	± 5 %

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
RF Conducted	TH01-WS	25°C / 65%	Ryan Lee
Radiated Emission	05CH02-WS	24°C / 65%	Ryan Lee
Adaptivity	TH01-WS	25°C / 64%	Jack Li
Receiver Blocking	05CH01-WS	25°C / 65%	Nai Xu

2.2 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	TH01-WS, 05CH01-WS
Address of Test Site (Kwei Shan)	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

Test Site	05CH02-WS
Address of Test Site (Kwei Shan II)	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

2.3 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
RF Output Power Power Spectral Density Transmitter unwanted emissions in the out of band domain	11b 11g HT20 HT40	2412 / 2442 / 2472 2412 / 2442 / 2472 2412 / 2442 / 2472 2422 / 2442 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	1, 2, 3, 4
Occupied Channel Bandwidth Adaptivity	11b 11g HT20 HT40	2412 / 2472 2412 / 2472 2412 / 2472 2422 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	2
Transmitter Spurious Emissions ≤ 1GHz	11g HT40	2412 / 2472 2422 / 2462	6 Mbps MCS 0	2
Transmitter Spurious Emissions > 1GHz	11b 11g HT20 HT40	2412 / 2472 2412 / 2472 2412 / 2472 2422 / 2462	1 Mbps 6 Mbps MCS 0 MCS 0	2
Receiver Spurious Emissions	11g HT40	2412 / 2472 2422 / 2462	6 Mbps MCS 0	2
Receiver Blocking	11b	2412 / 2472	1 Mbps	2
NOTE: 1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The X-plane result was found as the worst case and was shown in this report. 2. 4 types antenna are used for this device, highest gain antenna of each type is selected to perform test as below test configuration. Configuration 1 : Dipole antenna with 2 dBi gain Configuration 2 : PCB Dipole antenna with 2.79dBi gain Configuration 3 : PIFA antenna with 2.5dBi gain Configuration 4 : Magnetic Dipole with 2.5dBi gain 3. Two 50Ω terminators are connected to antenna port of EUT for radiated emission measurement.				

3 Transmitter Test Results

3.1 RF Output Power

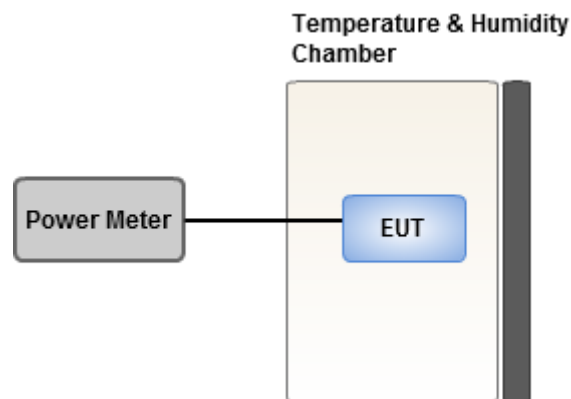
3.1.1 Limit of RF Output Power

For adaptive equipment using wide band modulations other than FHSS, the maximum RF output power shall be 20 dBm.

3.1.2 Test Procedures

Reference to clause 5.4.2.2 of ETSI EN 300 328 V2.2.2 (2019-07).

3.1.3 Test Setup



3.1.4 Test Result of RF Output Power

Test Configuration 1

RF Output Power (dBm)				
Modulation Mode	11b/1Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.33	20	Pass
T _{min} V _{nom}	2412	18.22	20	Pass
T _{max} V _{nom}	2412	16.34	20	Pass
T _{nom} V _{nom}	2442	17.16	20	Pass
T _{min} V _{nom}	2442	18.02	20	Pass
T _{max} V _{nom}	2442	16.19	20	Pass
T _{nom} V _{nom}	2472	17.12	20	Pass
T _{min} V _{nom}	2472	17.91	20	Pass
T _{max} V _{nom}	2472	16.16	20	Pass

RF Output Power (dBm)				
Modulation Mode	11g/6Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.25	20	Pass
T _{min} V _{nom}	2412	18.15	20	Pass
T _{max} V _{nom}	2412	16.30	20	Pass
T _{nom} V _{nom}	2442	17.11	20	Pass
T _{min} V _{nom}	2442	18.03	20	Pass
T _{max} V _{nom}	2442	16.16	20	Pass
T _{nom} V _{nom}	2472	17.06	20	Pass
T _{min} V _{nom}	2472	17.89	20	Pass
T _{max} V _{nom}	2472	16.12	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT20/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	17.45	20	Pass
$T_{min}V_{nom}$	2412	18.30	20	Pass
$T_{max}V_{nom}$	2412	16.52	20	Pass
$T_{nom}V_{nom}$	2442	17.31	20	Pass
$T_{min}V_{nom}$	2442	18.11	20	Pass
$T_{max}V_{nom}$	2442	16.31	20	Pass
$T_{nom}V_{nom}$	2472	17.24	20	Pass
$T_{min}V_{nom}$	2472	18.03	20	Pass
$T_{max}V_{nom}$	2472	16.23	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT40/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2422	17.27	20	Pass
$T_{min}V_{nom}$	2422	18.08	20	Pass
$T_{max}V_{nom}$	2422	16.26	20	Pass
$T_{nom}V_{nom}$	2442	17.19	20	Pass
$T_{min}V_{nom}$	2442	17.99	20	Pass
$T_{max}V_{nom}$	2442	16.19	20	Pass
$T_{nom}V_{nom}$	2462	17.15	20	Pass
$T_{min}V_{nom}$	2462	17.94	20	Pass
$T_{max}V_{nom}$	2462	16.17	20	Pass

Test Configuration 2

RF Output Power (dBm)				
Modulation Mode	11b/1Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	18.12	20	Pass
$T_{min}V_{nom}$	2412	19.01	20	Pass
$T_{max}V_{nom}$	2412	17.13	20	Pass
$T_{nom}V_{nom}$	2442	17.95	20	Pass
$T_{min}V_{nom}$	2442	18.81	20	Pass
$T_{max}V_{nom}$	2442	16.98	20	Pass
$T_{nom}V_{nom}$	2472	17.91	20	Pass
$T_{min}V_{nom}$	2472	18.70	20	Pass
$T_{max}V_{nom}$	2472	16.95	20	Pass

RF Output Power (dBm)				
Modulation Mode	11g/6Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	18.04	20	Pass
$T_{min}V_{nom}$	2412	18.94	20	Pass
$T_{max}V_{nom}$	2412	17.09	20	Pass
$T_{nom}V_{nom}$	2442	17.90	20	Pass
$T_{min}V_{nom}$	2442	18.82	20	Pass
$T_{max}V_{nom}$	2442	16.95	20	Pass
$T_{nom}V_{nom}$	2472	17.85	20	Pass
$T_{min}V_{nom}$	2472	18.68	20	Pass
$T_{max}V_{nom}$	2472	16.91	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT20/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	18.24	20	Pass
$T_{min}V_{nom}$	2412	19.09	20	Pass
$T_{max}V_{nom}$	2412	17.31	20	Pass
$T_{nom}V_{nom}$	2442	18.10	20	Pass
$T_{min}V_{nom}$	2442	18.90	20	Pass
$T_{max}V_{nom}$	2442	17.10	20	Pass
$T_{nom}V_{nom}$	2472	18.03	20	Pass
$T_{min}V_{nom}$	2472	18.82	20	Pass
$T_{max}V_{nom}$	2472	17.02	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT40/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2422	18.06	20	Pass
$T_{min}V_{nom}$	2422	18.87	20	Pass
$T_{max}V_{nom}$	2422	17.05	20	Pass
$T_{nom}V_{nom}$	2442	17.98	20	Pass
$T_{min}V_{nom}$	2442	18.78	20	Pass
$T_{max}V_{nom}$	2442	16.98	20	Pass
$T_{nom}V_{nom}$	2462	17.94	20	Pass
$T_{min}V_{nom}$	2462	18.73	20	Pass
$T_{max}V_{nom}$	2462	16.96	20	Pass

Test Configuration 3

RF Output Power (dBm)				
Modulation Mode	11b/1Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.83	20	Pass
T _{min} V _{nom}	2412	18.72	20	Pass
T _{max} V _{nom}	2412	16.84	20	Pass
T _{nom} V _{nom}	2442	17.66	20	Pass
T _{min} V _{nom}	2442	18.52	20	Pass
T _{max} V _{nom}	2442	16.69	20	Pass
T _{nom} V _{nom}	2472	17.62	20	Pass
T _{min} V _{nom}	2472	18.41	20	Pass
T _{max} V _{nom}	2472	16.66	20	Pass

RF Output Power (dBm)				
Modulation Mode	11g/6Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.75	20	Pass
T _{min} V _{nom}	2412	18.65	20	Pass
T _{max} V _{nom}	2412	16.80	20	Pass
T _{nom} V _{nom}	2442	17.61	20	Pass
T _{min} V _{nom}	2442	18.53	20	Pass
T _{max} V _{nom}	2442	16.66	20	Pass
T _{nom} V _{nom}	2472	17.56	20	Pass
T _{min} V _{nom}	2472	18.39	20	Pass
T _{max} V _{nom}	2472	16.62	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT20/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	17.95	20	Pass
$T_{min}V_{nom}$	2412	18.80	20	Pass
$T_{max}V_{nom}$	2412	17.02	20	Pass
$T_{nom}V_{nom}$	2442	17.81	20	Pass
$T_{min}V_{nom}$	2442	18.61	20	Pass
$T_{max}V_{nom}$	2442	16.81	20	Pass
$T_{nom}V_{nom}$	2472	17.74	20	Pass
$T_{min}V_{nom}$	2472	18.53	20	Pass
$T_{max}V_{nom}$	2472	16.73	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT40/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2422	17.77	20	Pass
$T_{min}V_{nom}$	2422	18.58	20	Pass
$T_{max}V_{nom}$	2422	16.76	20	Pass
$T_{nom}V_{nom}$	2442	17.69	20	Pass
$T_{min}V_{nom}$	2442	18.49	20	Pass
$T_{max}V_{nom}$	2442	16.69	20	Pass
$T_{nom}V_{nom}$	2462	17.65	20	Pass
$T_{min}V_{nom}$	2462	18.44	20	Pass
$T_{max}V_{nom}$	2462	16.67	20	Pass

Test Configuration 4

RF Output Power (dBm)				
Modulation Mode	11b/1Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.83	20	Pass
T _{min} V _{nom}	2412	18.72	20	Pass
T _{max} V _{nom}	2412	16.84	20	Pass
T _{nom} V _{nom}	2442	17.66	20	Pass
T _{min} V _{nom}	2442	18.52	20	Pass
T _{max} V _{nom}	2442	16.69	20	Pass
T _{nom} V _{nom}	2472	17.62	20	Pass
T _{min} V _{nom}	2472	18.41	20	Pass
T _{max} V _{nom}	2472	16.66	20	Pass

RF Output Power (dBm)				
Modulation Mode	11g/6Mbps			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
T _{nom} V _{nom}	2412	17.75	20	Pass
T _{min} V _{nom}	2412	18.65	20	Pass
T _{max} V _{nom}	2412	16.80	20	Pass
T _{nom} V _{nom}	2442	17.61	20	Pass
T _{min} V _{nom}	2442	18.53	20	Pass
T _{max} V _{nom}	2442	16.66	20	Pass
T _{nom} V _{nom}	2472	17.56	20	Pass
T _{min} V _{nom}	2472	18.39	20	Pass
T _{max} V _{nom}	2472	16.62	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT20/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2412	17.95	20	Pass
$T_{min}V_{nom}$	2412	18.80	20	Pass
$T_{max}V_{nom}$	2412	17.02	20	Pass
$T_{nom}V_{nom}$	2442	17.81	20	Pass
$T_{min}V_{nom}$	2442	18.61	20	Pass
$T_{max}V_{nom}$	2442	16.81	20	Pass
$T_{nom}V_{nom}$	2472	17.74	20	Pass
$T_{min}V_{nom}$	2472	18.53	20	Pass
$T_{max}V_{nom}$	2472	16.73	20	Pass

RF Output Power (dBm)				
Modulation Mode	HT40/MCS 0			
Condition	Freq. (MHz)	EIRP Power	Limit (dBm)	Results
$T_{nom}V_{nom}$	2422	17.77	20	Pass
$T_{min}V_{nom}$	2422	18.58	20	Pass
$T_{max}V_{nom}$	2422	16.76	20	Pass
$T_{nom}V_{nom}$	2442	17.69	20	Pass
$T_{min}V_{nom}$	2442	18.49	20	Pass
$T_{max}V_{nom}$	2442	16.69	20	Pass
$T_{nom}V_{nom}$	2462	17.65	20	Pass
$T_{min}V_{nom}$	2462	18.44	20	Pass
$T_{max}V_{nom}$	2462	16.67	20	Pass

3.2 Power Spectral Density

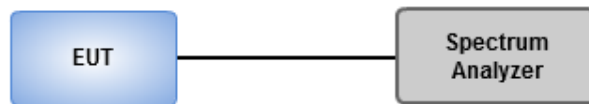
3.2.1 Limit of Power Spectral Density

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10 dBm per MHz.

3.2.2 Test Procedures

Reference to clause 5.4.3.2 of ETSI EN 300 328 V2.2.2 (2019-07).

3.2.3 Test Setup



3.2.4 Test Result of Power Spectral Density

Test Configuration 1

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz)	Limit (dBm/1MHz)	Results
11b/1Mbps	2412	8.25	10	Pass
11b/1Mbps	2442	8.08	10	Pass
11b/1Mbps	2472	8.04	10	Pass
11g/6Mbps	2412	5.81	10	Pass
11g/6Mbps	2442	5.65	10	Pass
11g/6Mbps	2472	5.62	10	Pass
HT20/MCS 0	2412	5.82	10	Pass
HT20/MCS 0	2442	5.70	10	Pass
HT20/MCS 0	2472	5.63	10	Pass
HT40/MCS 0	2422	2.76	10	Pass
HT40/MCS 0	2442	2.71	10	Pass
HT40/MCS 0	2462	2.67	10	Pass

Test Configuration 2

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz)	Limit (dBm/1MHz)	Results
11b/1Mbps	2412	9.04	10	Pass
11b/1Mbps	2442	8.87	10	Pass
11b/1Mbps	2472	8.83	10	Pass
11g/6Mbps	2412	6.60	10	Pass
11g/6Mbps	2442	6.44	10	Pass
11g/6Mbps	2472	6.41	10	Pass
HT20/MCS 0	2412	6.61	10	Pass
HT20/MCS 0	2442	6.49	10	Pass
HT20/MCS 0	2472	6.42	10	Pass
HT40/MCS 0	2422	3.55	10	Pass
HT40/MCS 0	2442	3.50	10	Pass
HT40/MCS 0	2462	3.46	10	Pass

Test Configuration 3

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz)	Limit (dBm/1MHz)	Results
11b/1Mbps	2412	8.75	10	Pass
11b/1Mbps	2442	8.58	10	Pass
11b/1Mbps	2472	8.54	10	Pass
11g/6Mbps	2412	6.31	10	Pass
11g/6Mbps	2442	6.15	10	Pass
11g/6Mbps	2472	6.12	10	Pass
HT20/MCS 0	2412	6.32	10	Pass
HT20/MCS 0	2442	6.20	10	Pass
HT20/MCS 0	2472	6.13	10	Pass
HT40/MCS 0	2422	3.26	10	Pass
HT40/MCS 0	2442	3.21	10	Pass
HT40/MCS 0	2462	3.17	10	Pass

Test Configuration 4

Modulation Mode	Freq. (MHz)	Power Density (dBm/1MHz)	Limit (dBm/1MHz)	Results
11b/1Mbps	2412	8.75	10	Pass
11b/1Mbps	2442	8.58	10	Pass
11b/1Mbps	2472	8.54	10	Pass
11g/6Mbps	2412	6.31	10	Pass
11g/6Mbps	2442	6.15	10	Pass
11g/6Mbps	2472	6.12	10	Pass
HT20/MCS 0	2412	6.32	10	Pass
HT20/MCS 0	2442	6.20	10	Pass
HT20/MCS 0	2472	6.13	10	Pass
HT40/MCS 0	2422	3.26	10	Pass
HT40/MCS 0	2442	3.21	10	Pass
HT40/MCS 0	2462	3.17	10	Pass

3.3 Occupied Channel Bandwidth

3.3.1 Limit of Occupied Channel Bandwidth

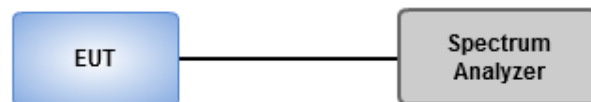
The Occupied Channel Bandwidth shall fall completely within 2.4~2.4835 GHz.

In addition, for non-adaptive equipment using wide band modulations other than FHSS and with e.i.r.p greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

3.3.2 Test Procedures

Reference to clause 5.4.7.2 of ETSI EN 300 328 V2.2.2 (2019-07).

3.3.3 Test Setup



3.3.4 Test Result of Occupied Channel Bandwidth

Test Configuration 2

Summary

Mode	OBW (Hz)	ITU-Code
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	13.593M	13M6G1D
802.11g_Nss1,(6Mbps)_2TX	16.712M	16M7D1D
802.11n HT20_Nss1,(MCS0)_2TX	17.791M	17M8D1D
802.11n HT40_Nss1,(MCS0)_2TX	36.462M	36M5D1D

OBW = 99% occupied bandwidth;

Result

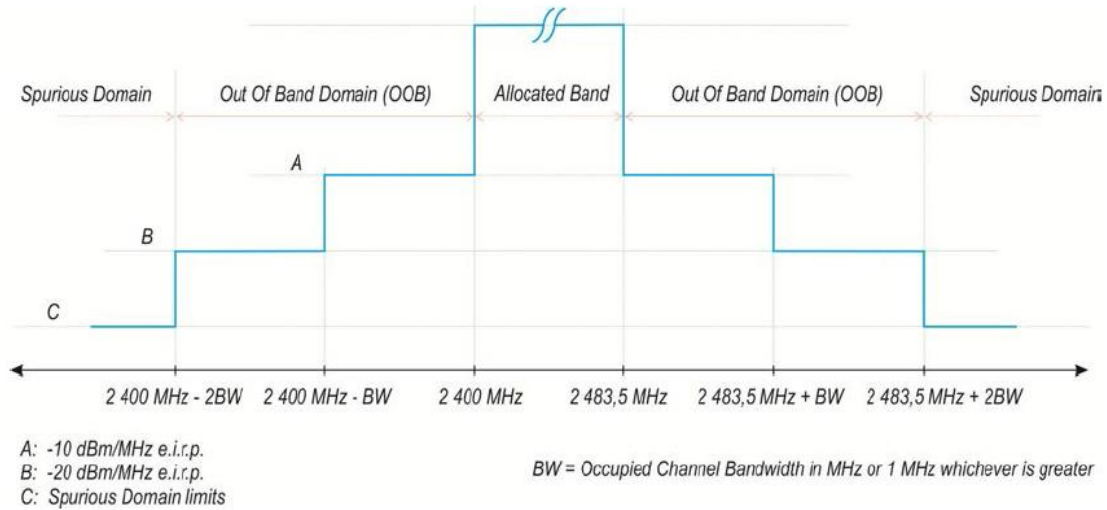
Mode	Result	Limit (Hz)	fl-OBW (Hz)	fh-OBW (Hz)	OBW (Hz)	N dB (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4-2.4835G	2.405203G	2.418797G	13.593M	10.18M
2472MHz_TnomVnom	Pass	2.4-2.4835G	2.465203G	2.478777G	13.573M	10.2M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4-2.4835G	2.403644G	2.420356G	16.712M	16.84M
2472MHz_TnomVnom	Pass	2.4-2.4835G	2.463644G	2.480356G	16.712M	16.84M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.4-2.4835G	2.403104G	2.420896G	17.791M	18M
2472MHz_TnomVnom	Pass	2.4-2.4835G	2.463104G	2.480896G	17.791M	18M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.4-2.4835G	2.403769G	2.440231G	36.462M	36.8M
2462MHz_TnomVnom	Pass	2.4-2.4835G	2.443769G	2.480191G	36.422M	36.8M

fl-OBW = fl lower edge 99% occupied bandwidth; fh-OBW = fh higher edge 99% occupied bandwidth; OBW = 99% occupied bandwidth;

N dB = 6dB down bandwidth;

3.4 Transmitter Unwanted Emissions in the Out-Of-Band Domain

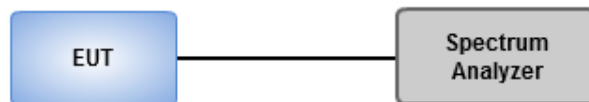
3.4.1 Limit of Transmitter Unwanted Emissions in the Out-Of-Band Domain



3.4.2 Test Procedures

Reference to clause 5.4.8.2 of ETSI EN 300 328 V2.2.2 (2019-07).

3.4.3 Test Setup



3.4.4 Test Result of Transmitter Unwanted Emissions in the Out-Of-Band Domain

Test Configuration 1

Summary

Mode	EIRP-A (dBm)	Limit-A (dBm)	EIRP-B (dBm)	Limit-B (dBm)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	-36.12	-10	-40.79	-20
802.11g_Nss1,(6Mbps)_2TX	-30.62	-10	-39.93	-20
802.11n HT20_Nss1,(MCS0)_2TX	-32.76	-10	-39.47	-20
802.11n HT40_Nss1,(MCS0)_2TX	-34.87	-10	-40.44	-20

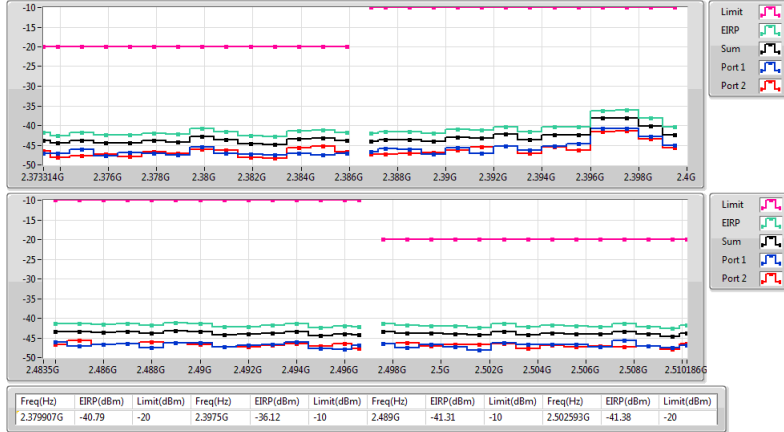
Result

Mode	Result	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Freq (Hz)	EIRP (dBm)	Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.379907G	-40.79	-20	2.3975G	-36.12	-10
2412MHz_TnomVnom	Pass	2.502593G	-41.38	-20	2.489G	-41.31	-10
2472MHz_TnomVnom	Pass	2.376927G	-41.58	-20	2.3935G	-41.46	-10
2472MHz_TnomVnom	Pass	2.506573G	-40.99	-20	2.487G	-37.25	-10
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.382788G	-40.36	-20	2.3975G	-30.62	-10
2412MHz_TnomVnom	Pass	2.509712G	-41.28	-20	2.491G	-40.75	-10
2472MHz_TnomVnom	Pass	2.375788G	-41.25	-20	2.3855G	-41.04	-10
2472MHz_TnomVnom	Pass	2.501712G	-39.93	-20	2.487G	-33.01	-10
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.377709G	-40.80	-20	2.3975G	-32.76	-10
2412MHz_TnomVnom	Pass	2.514791G	-41.07	-20	2.492G	-41.49	-10
2472MHz_TnomVnom	Pass	2.379709G	-41.26	-20	2.3985G	-41.60	-10
2472MHz_TnomVnom	Pass	2.501791G	-39.47	-20	2.486G	-34.51	-10
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.355038G	-40.44	-20	2.3935G	-34.87	-10
2422MHz_TnomVnom	Pass	2.536462G	-41.82	-20	2.488G	-41.31	-10
2462MHz_TnomVnom	Pass	2.340078G	-41.54	-20	2.3965G	-41.59	-10
2462MHz_TnomVnom	Pass	2.525422G	-41.11	-20	2.484G	-35.05	-10

802.11b_Nss1,(1Mbps)_2TX

Mask

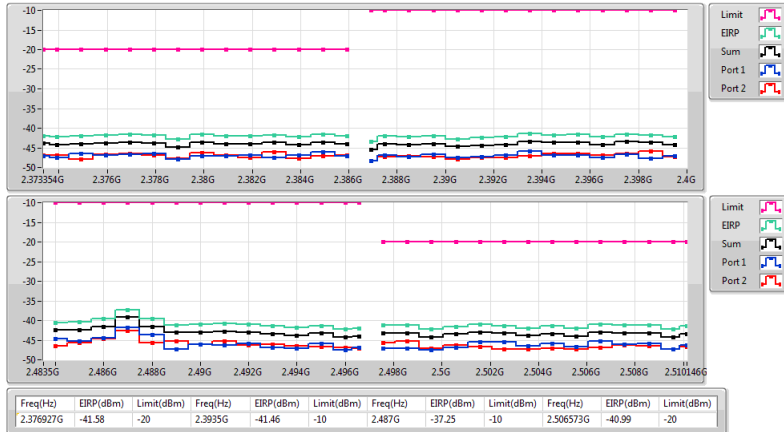
2412MHz_TnomVnom



802.11b_Nss1,(1Mbps)_2TX

Mask

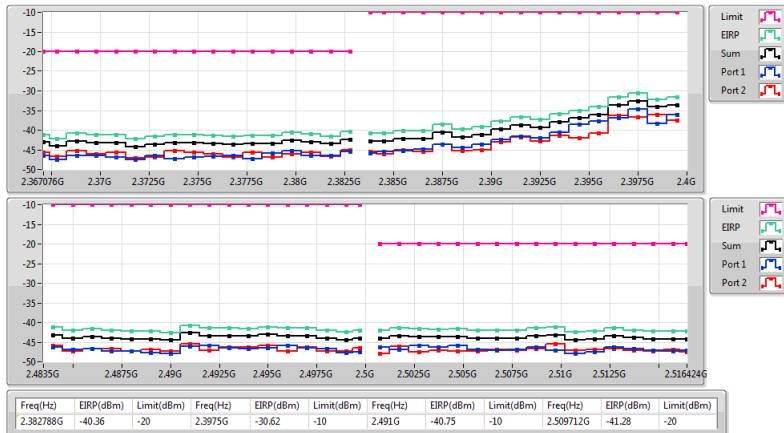
2472MHz_TnomVnom



802.11g_Nss1,(6Mbps)_2TX

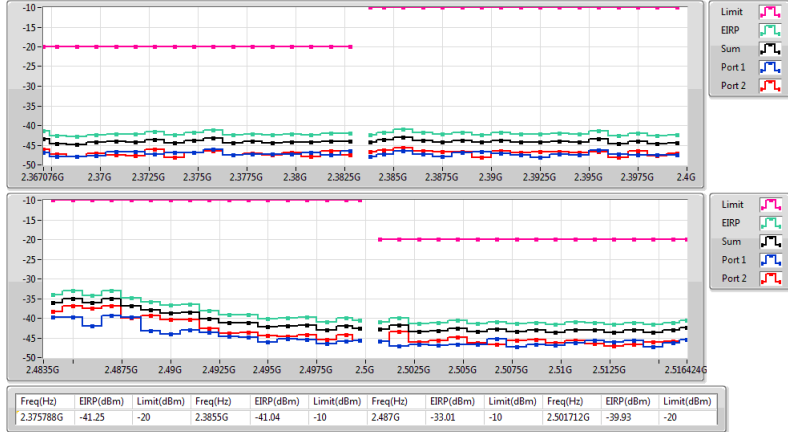
Mask

2412MHz_TnomVnom



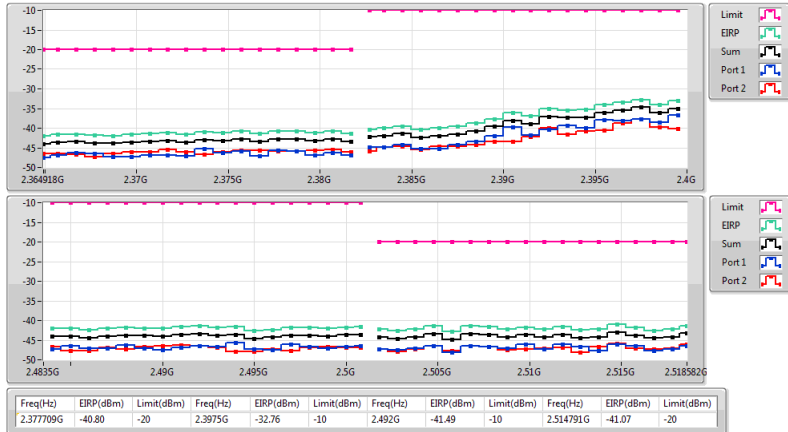
802.11g_Nss1,(6Mbps)_2TX

2472MHz_TnomVnom



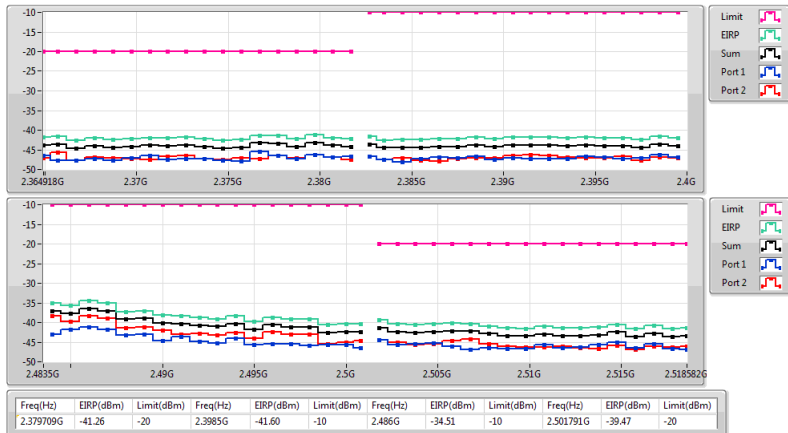
802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TnomVnom



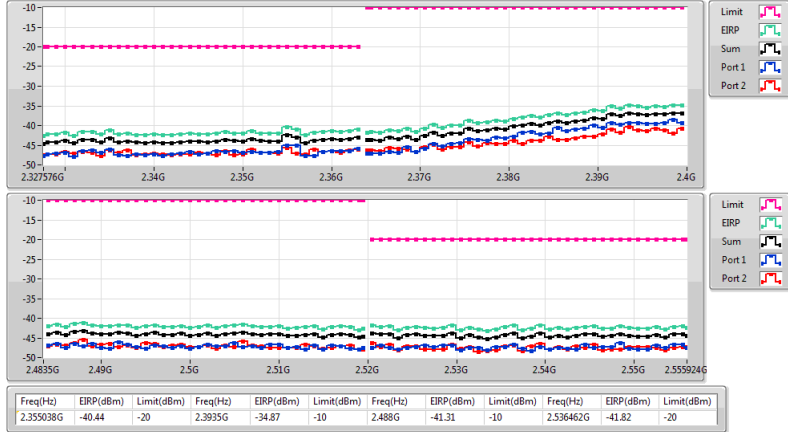
802.11n HT20_Nss1,(MCS0)_2TX

2472MHz_TnomVnom



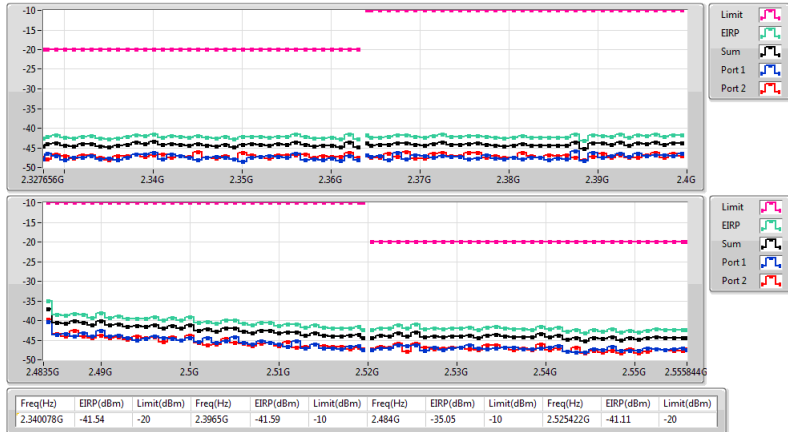
802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

2462MHz_TnomVnom



Test Configuration 2

Summary

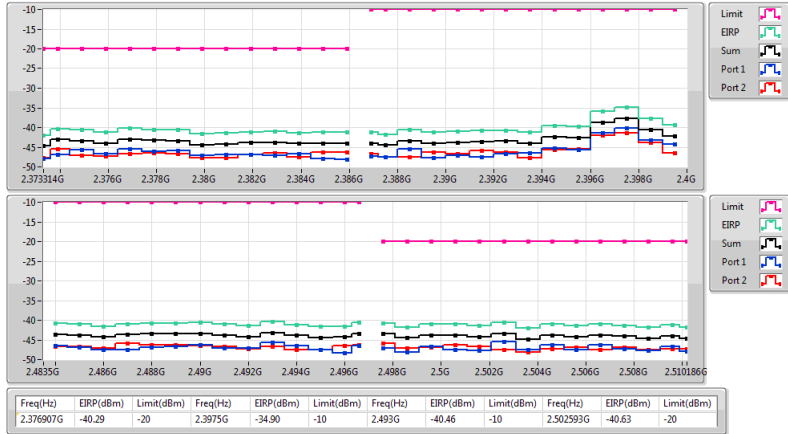
Mode	EIRP-A (dBm)	Limit-A (dBm)	EIRP-B (dBm)	Limit-B (dBm)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	-34.9	-10	-39.28	-20
802.11g_Nss1,(6Mbps)_2TX	-29.91	-10	-39.02	-20
802.11n HT20_Nss1,(MCS0)_2TX	-31.96	-10	-39.46	-20
802.11n HT40_Nss1,(MCS0)_2TX	-33.62	-10	-40.15	-20

Result

Mode	Result	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Freq (Hz)	EIRP (dBm)	Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.376907G	-40.29	-20	2.3975G	-34.90	-10
2412MHz_TnomVnom	Pass	2.502593G	-40.63	-20	2.493G	-40.46	-10
2472MHz_TnomVnom	Pass	2.383927G	-40.76	-20	2.3925G	-40.61	-10
2472MHz_TnomVnom	Pass	2.498573G	-39.28	-20	2.487G	-36.89	-10
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.372788G	-39.42	-20	2.3975G	-29.91	-10
2412MHz_TnomVnom	Pass	2.504712G	-40.40	-20	2.496G	-40.27	-10
2472MHz_TnomVnom	Pass	2.373788G	-40.71	-20	2.3975G	-40.59	-10
2472MHz_TnomVnom	Pass	2.504712G	-39.02	-20	2.485G	-31.95	-10
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.381709G	-39.71	-20	2.3985G	-31.96	-10
2412MHz_TnomVnom	Pass	2.501791G	-40.53	-20	2.491G	-40.29	-10
2472MHz_TnomVnom	Pass	2.381709G	-40.87	-20	2.3995G	-40.73	-10
2472MHz_TnomVnom	Pass	2.505791G	-39.46	-20	2.484G	-33.83	-10
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.356038G	-40.15	-20	2.3975G	-33.62	-10
2422MHz_TnomVnom	Pass	2.533462G	-40.82	-20	2.49G	-40.86	-10
2462MHz_TnomVnom	Pass	2.331078G	-41.07	-20	2.3985G	-40.28	-10
2462MHz_TnomVnom	Pass	2.520422G	-40.52	-20	2.484G	-34.00	-10

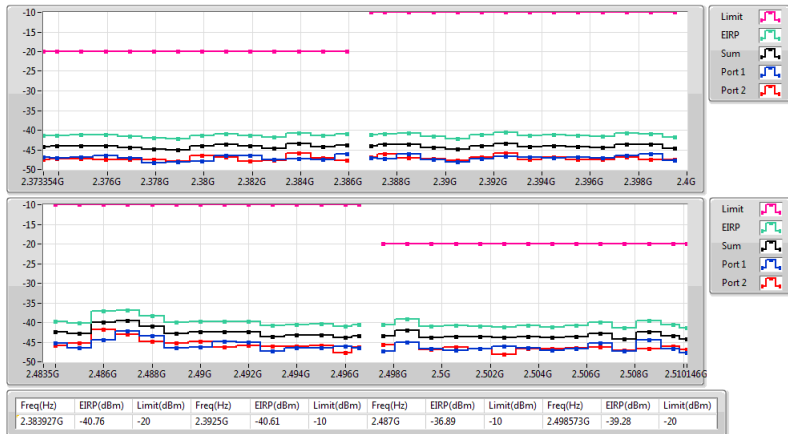
802.11b_Nss1,(1Mbps)_2TX

2412MHz_TnomVnom



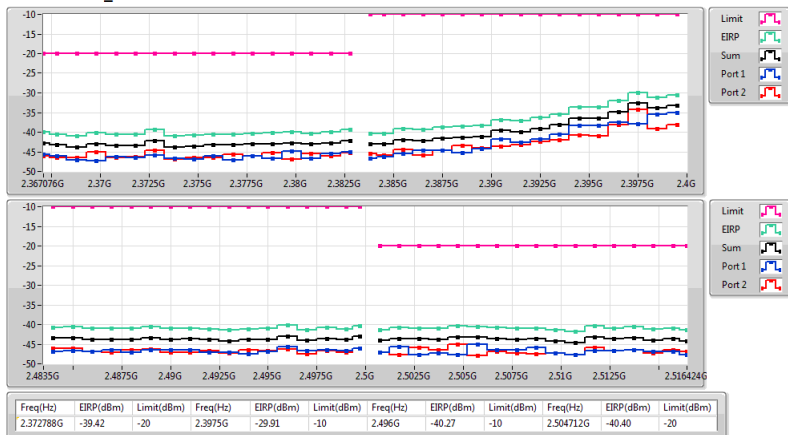
802.11b_Nss1,(1Mbps)_2TX

2472MHz_TnomVnom



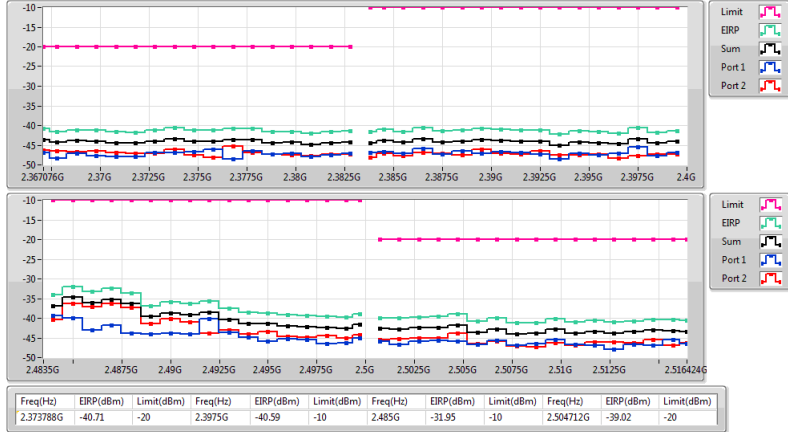
802.11g_Nss1,(6Mbps)_2TX

2412MHz_TnomVnom



802.11g_Nss1,(6Mbps)_2TX

2472MHz_TnomVnom



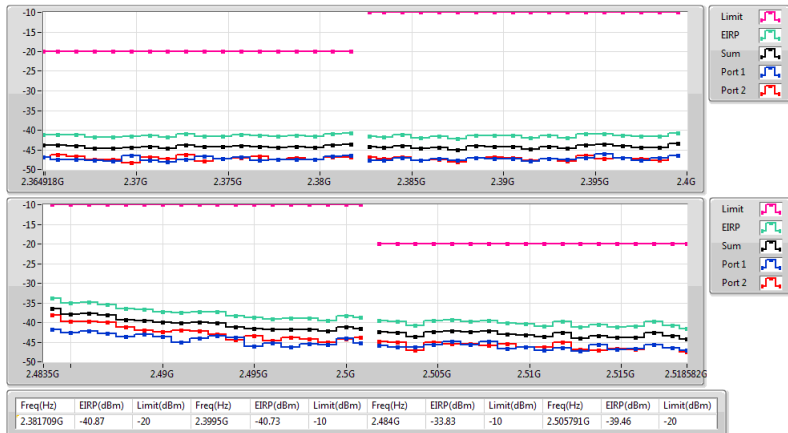
802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

2472MHz_TnomVnom



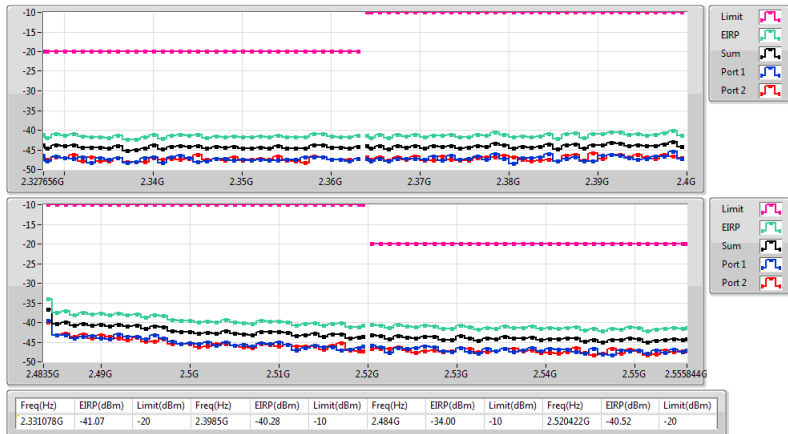
802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

2462MHz_TnomVnom



Test Configuration 3

Summary

Mode	EIRP-A (dBm)	Limit-A (dBm)	EIRP-B (dBm)	Limit-B (dBm)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	-34.97	-10	-39.46	-20
802.11g_Nss1,(6Mbps)_2TX	-29.93	-10	-39.55	-20
802.11n HT20_Nss1,(MCS0)_2TX	-32.01	-10	-39.05	-20
802.11n HT40_Nss1,(MCS0)_2TX	-33.3	-10	-40.04	-20

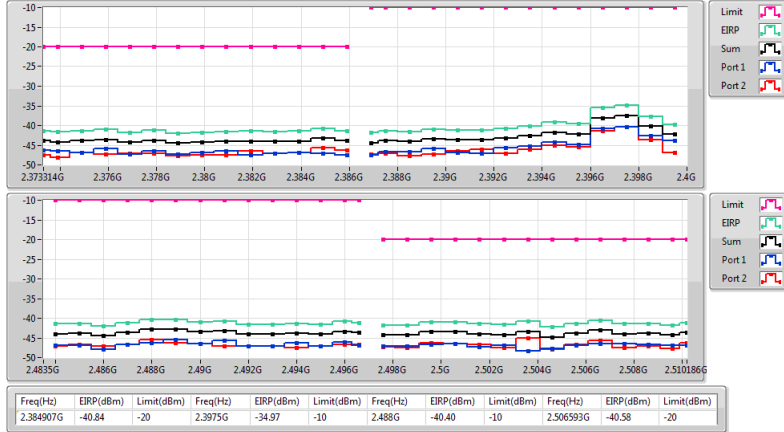
Result

Mode	Result	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Freq (Hz)	EIRP (dBm)	Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.384907G	-40.84	-20	2.3975G	-34.97	-10
2412MHz_TnomVnom	Pass	2.506593G	-40.58	-20	2.488G	-40.40	-10
2472MHz_TnomVnom	Pass	2.375927G	-40.57	-20	2.3915G	-40.97	-10
2472MHz_TnomVnom	Pass	2.498573G	-39.46	-20	2.487G	-36.23	-10
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.382788G	-39.69	-20	2.3985G	-29.93	-10
2412MHz_TnomVnom	Pass	2.502712G	-39.98	-20	2.487G	-40.35	-10
2472MHz_TnomVnom	Pass	2.373788G	-40.42	-20	2.3885G	-40.62	-10
2472MHz_TnomVnom	Pass	2.501712G	-39.55	-20	2.486G	-32.28	-10
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.378709G	-39.63	-20	2.3995G	-32.01	-10
2412MHz_TnomVnom	Pass	2.512791G	-40.66	-20	2.495G	-39.76	-10
2472MHz_TnomVnom	Pass	2.381709G	-41.00	-20	2.3905G	-41.03	-10
2472MHz_TnomVnom	Pass	2.506791G	-39.05	-20	2.484G	-34.15	-10
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.359038G	-40.04	-20	2.3945G	-33.97	-10
2422MHz_TnomVnom	Pass	2.531462G	-41.02	-20	2.5G	-40.15	-10
2462MHz_TnomVnom	Pass	2.357078G	-40.66	-20	2.3955G	-40.80	-10
2462MHz_TnomVnom	Pass	2.529422G	-40.47	-20	2.484G	-33.30	-10

802.11b_Nss1,(1Mbps)_2TX

Mask

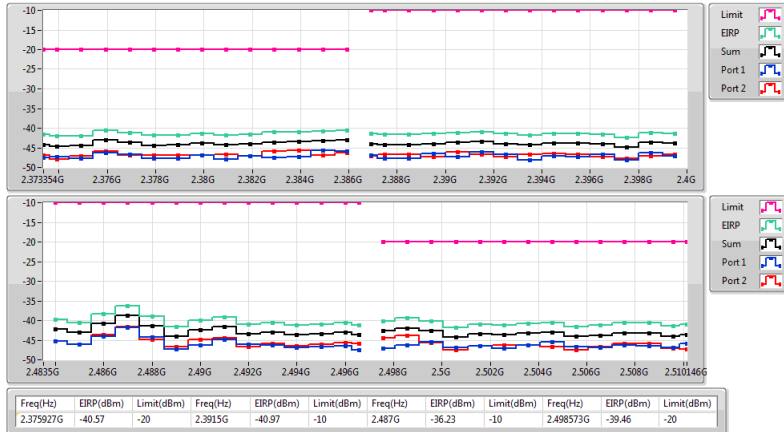
2412MHz_TnomVnom



802.11b_Nss1,(1Mbps)_2TX

Mask

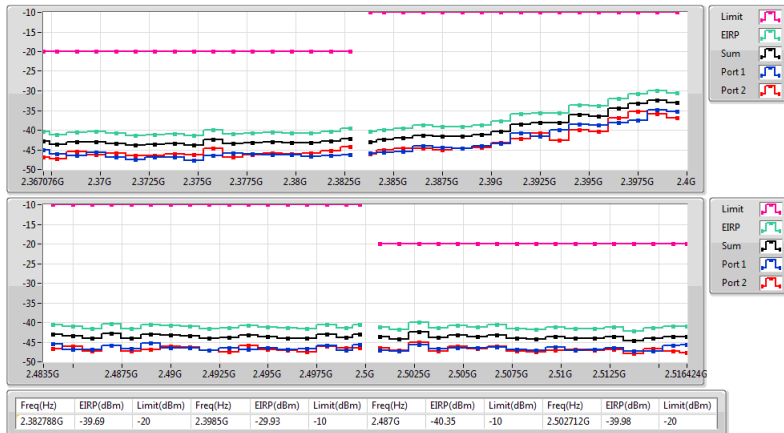
2472MHz_TnomVnom



802.11g_Nss1,(6Mbps)_2TX

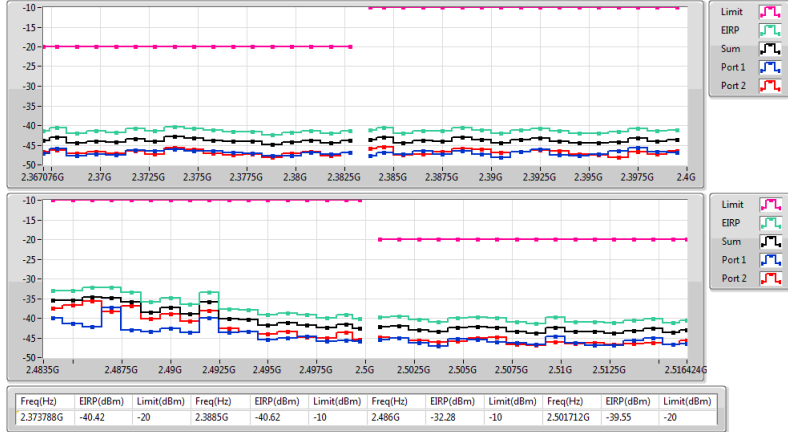
Mask

2412MHz_TnomVnom



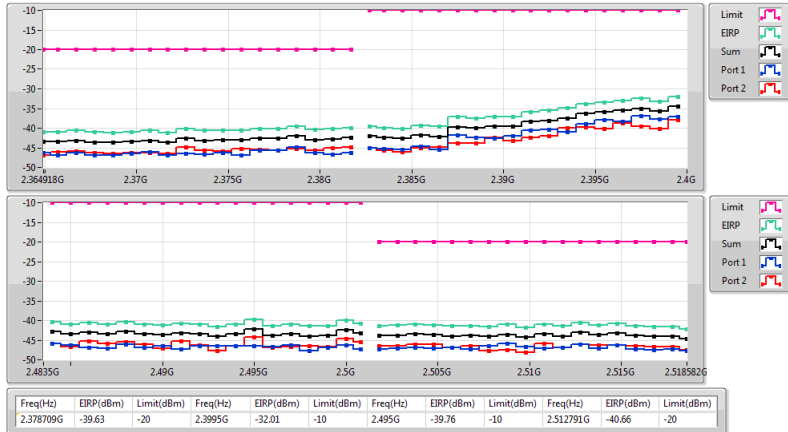
802.11g_Nss1,(6Mbps)_2TX

2472MHz_TnomVnom



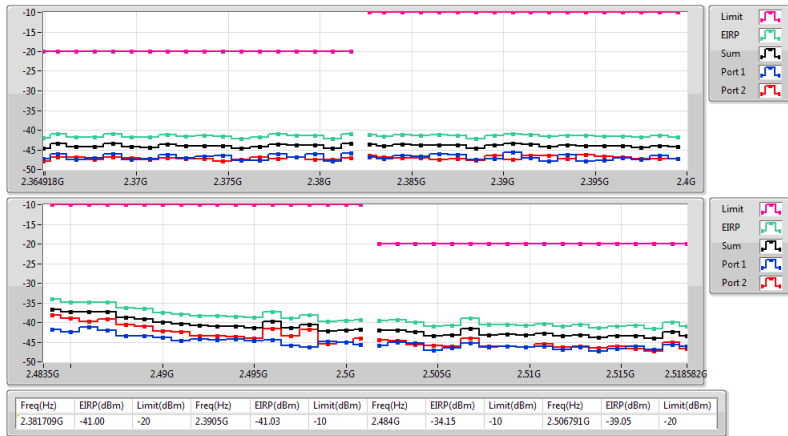
802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TnomVnom



802.11n HT20_Nss1,(MCS0)_2TX

2472MHz_TnomVnom



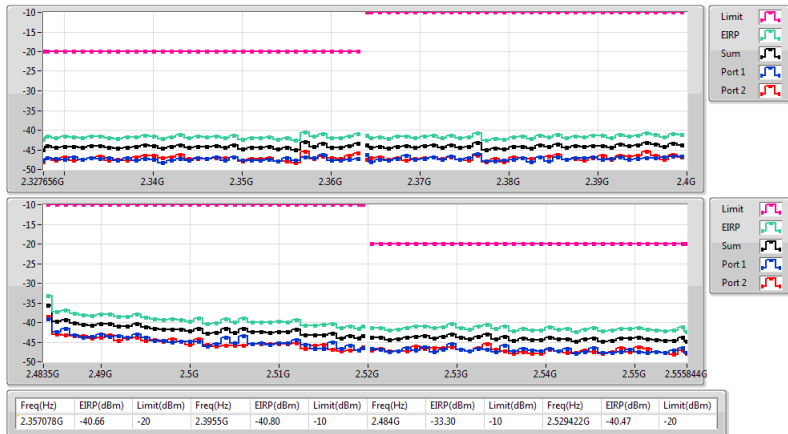
802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TnomVnom



802.11n HT40_Nss1,(MCS0)_2TX

2462MHz_TnomVnom



Test Configuration 4

Summary

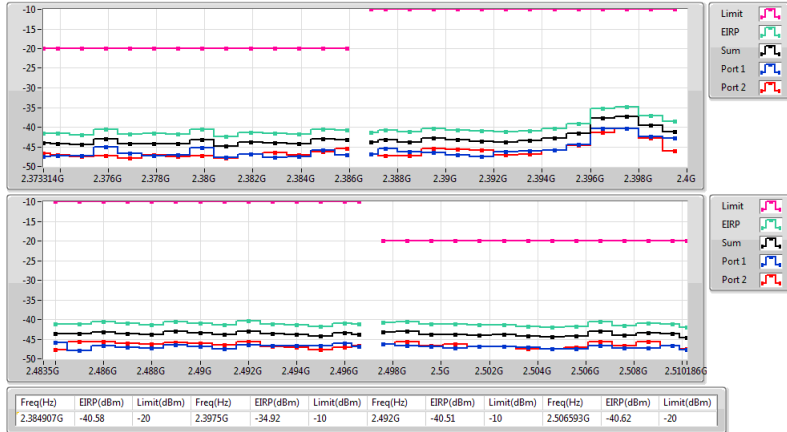
Mode	EIRP-A (dBm)	Limit-A (dBm)	EIRP-B (dBm)	Limit-B (dBm)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	-34.92	-10	-40.29	-20
802.11g_Nss1,(6Mbps)_2TX	-29.26	-10	-39.5	-20
802.11n HT20_Nss1,(MCS0)_2TX	-31.82	-10	-39.07	-20
802.11n HT40_Nss1,(MCS0)_2TX	-33.31	-10	-40.39	-20

Result

Mode	Result	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Freq (Hz)	EIRP (dBm)	Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.384907G	-40.58	-20	2.3975G	-34.92	-10
2412MHz_TnomVnom	Pass	2.506593G	-40.62	-20	2.492G	-40.51	-10
2472MHz_TnomVnom	Pass	2.376927G	-40.79	-20	2.3975G	-40.81	-10
2472MHz_TnomVnom	Pass	2.498573G	-40.29	-20	2.487G	-36.43	-10
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.381788G	-39.50	-20	2.3975G	-29.26	-10
2412MHz_TnomVnom	Pass	2.506712G	-40.10	-20	2.499712G	-40.18	-10
2472MHz_TnomVnom	Pass	2.373788G	-40.41	-20	2.3895G	-40.33	-10
2472MHz_TnomVnom	Pass	2.500712G	-39.55	-20	2.487G	-30.48	-10
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.381709G	-39.72	-20	2.3995G	-31.82	-10
2412MHz_TnomVnom	Pass	2.518582G	-39.66	-20	2.49G	-40.19	-10
2472MHz_TnomVnom	Pass	2.364918G	-41.08	-20	2.3875G	-40.65	-10
2472MHz_TnomVnom	Pass	2.501791G	-39.07	-20	2.487G	-33.77	-10
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.361038G	-40.39	-20	2.3965G	-33.31	-10
2422MHz_TnomVnom	Pass	2.526462G	-40.97	-20	2.485G	-40.71	-10
2462MHz_TnomVnom	Pass	2.359078G	-40.96	-20	2.3865G	-40.64	-10
2462MHz_TnomVnom	Pass	2.525422G	-40.69	-20	2.484G	-33.93	-10

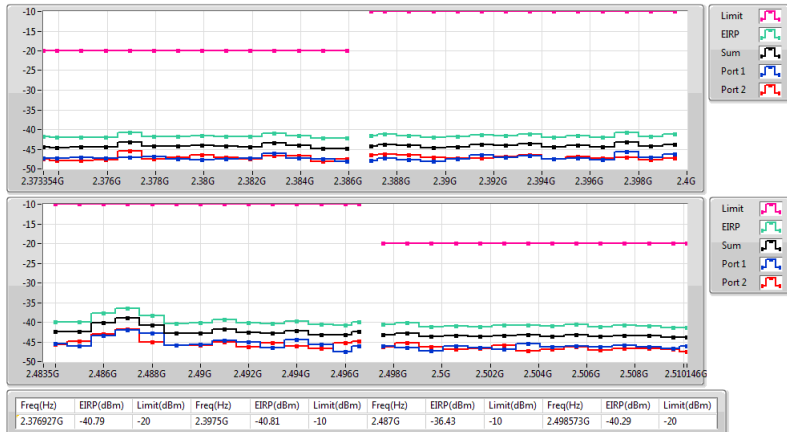
802.11b_Nss1,(1Mbps)_2TX

2412MHz_TnomVnom



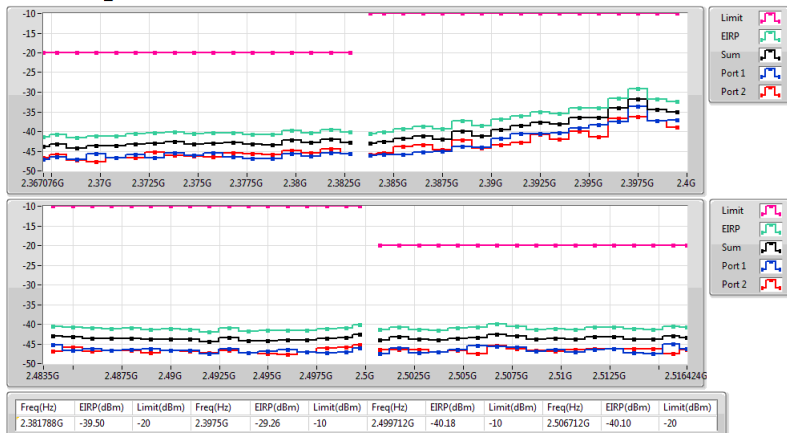
802.11b_Nss1,(1Mbps)_2TX

2472MHz_TnomVnom



802.11g_Nss1,(6Mbps)_2TX

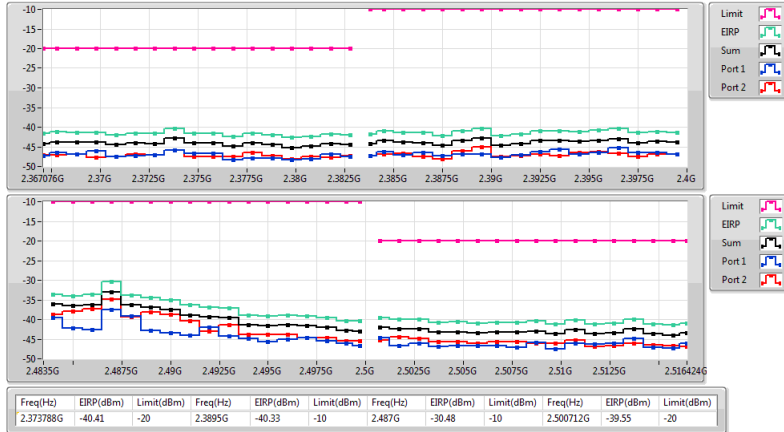
2412MHz_TnomVnom



802.11g_Nss1,(6Mbps)_2TX

2472MHz_TnomVnom

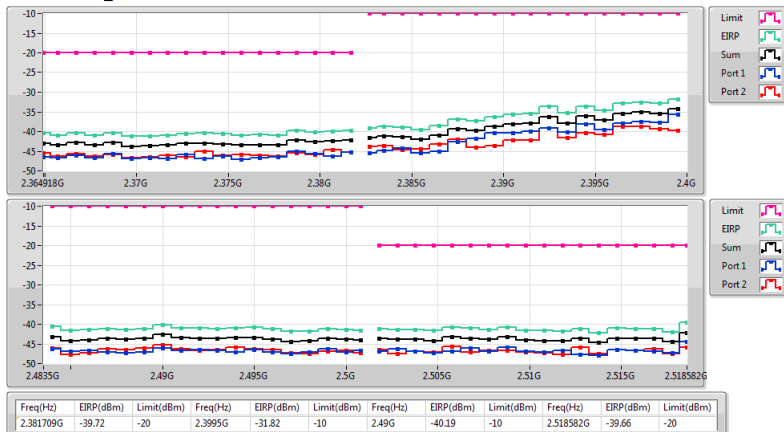
Mask



802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TnomVnom

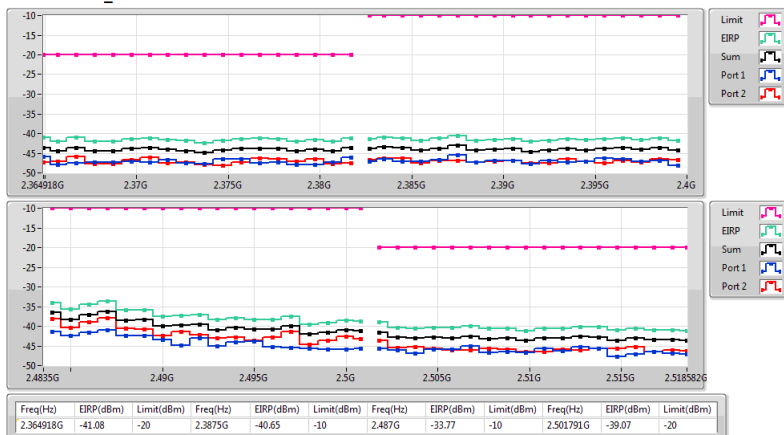
Mask



802.11n HT20_Nss1,(MCS0)_2TX

2472MHz_TnomVnom

Mask



802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TnomVnom

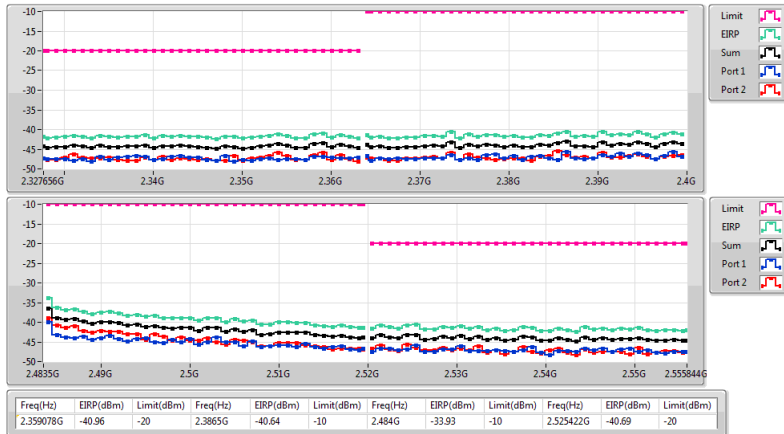
Mask



802.11n HT40_Nss1,(MCS0)_2TX

2462MHz_TnomVnom

Mask



3.5 Transmitter Unwanted Emissions in the Spurious Domain

3.5.1 Limit of Transmitter Unwanted Emissions in the Spurious Domain

Limit for Radiated Spurious Emission

Frequency Range (MHz)	Maximum power (dBm)	Bandwidth (kHz)
30 to 47	-36	100
47 to 74	-54	100
74 to 87,5	-36	100
87,5 to 118	-54	100
118 to 174	-36	100
174 to 230	-54	100
230 to 470	-36	100
470 to 694	-54	100
694 to 1000	-36	100
1000 to 12750	-30	1000

Limit for Conducted Spurious Emission

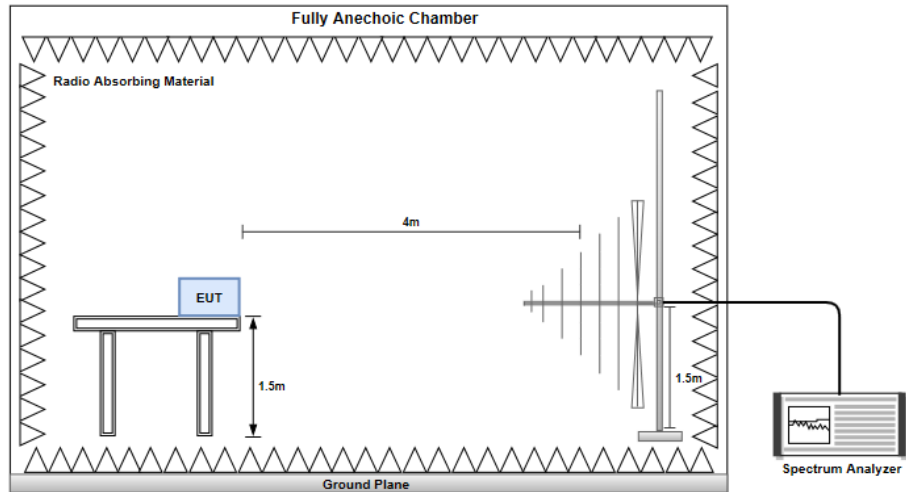
Frequency Range (MHz)	Maximum power (dBm)	Bandwidth (kHz)
30 to 47	-39.01	100
47 to 74	-57.01	100
74 to 87,5	-39.01	100
87,5 to 118	-57.01	100
118 to 174	-39.01	100
174 to 230	-57.01	100
230 to 470	-39.01	100
470 to 694	-57.01	100
694 to 1000	-39.01	100
1000 to 12750	-33.01	1000

3.5.2 Test Procedures

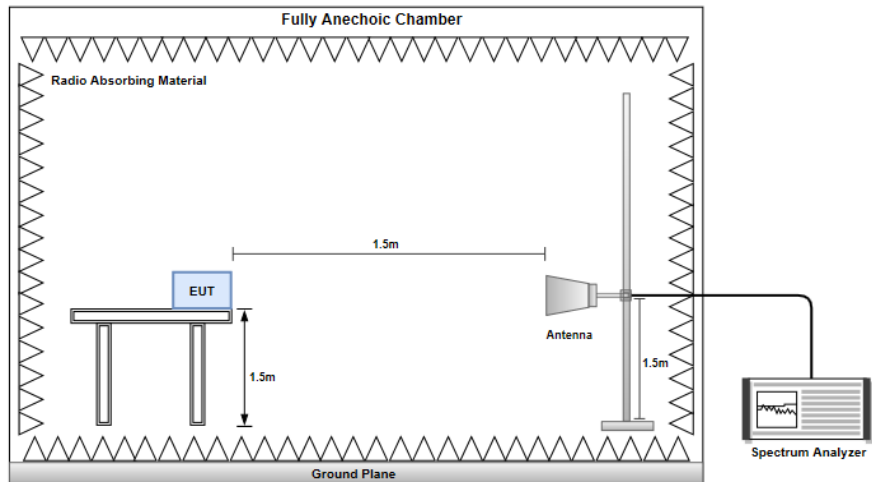
Reference to clause 5.4.9.2 of ETSI EN 300 328 V2.2.2 (2019-07).

3.5.3 Test Setup

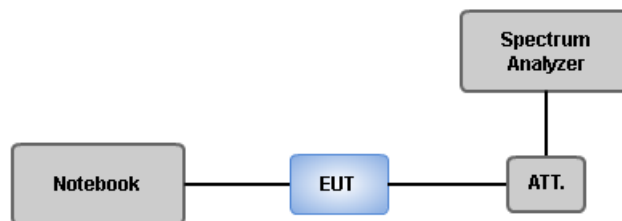
Below 1GHz



Above 1 GHz



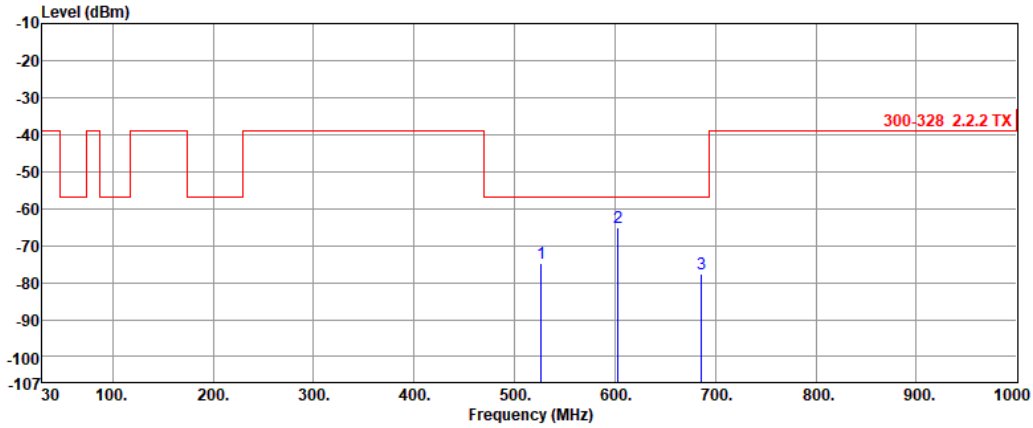
Conducted Emission



Main Port

3.5.4 Transmitter Conducted Unwanted Emissions (Below 1GHz)

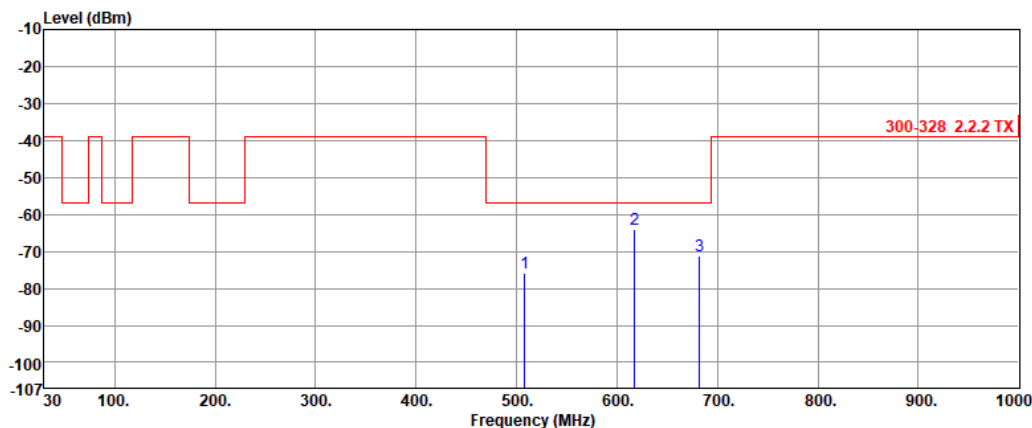
Modulation	11g	Test Freq. (MHz)	2412
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	526.64	-74.81	-57.01	-17.80	0.00	-74.81
2	603.27	-64.94	-57.01	-7.93	0.00	-64.94
3	685.85	-77.79	-57.01	-20.78	0.00	-77.79

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
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Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	508.21	-75.84	-57.01	-18.83	0.00	-75.84
2	617.82	-64.20	-57.01	-7.19	0.00	-64.20
3	682.40	-71.38	-57.01	-14.37	0.00	-71.38

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

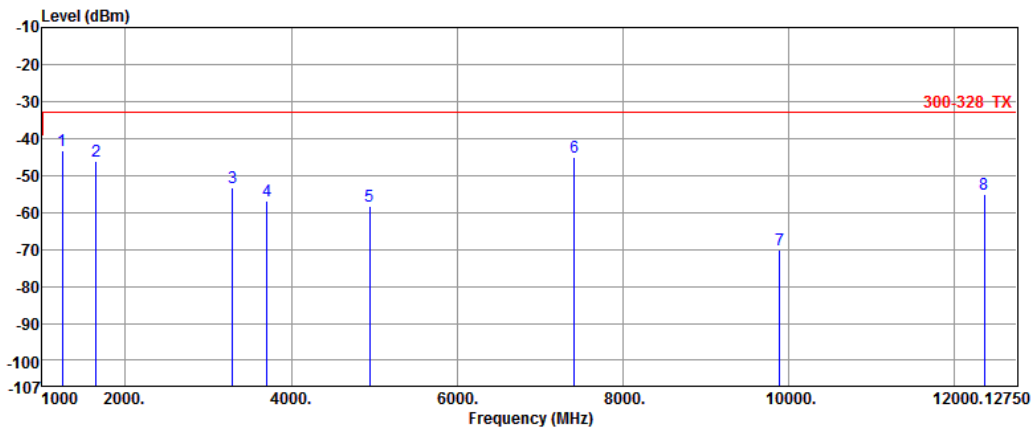
Modulation	HT40	Test Freq. (MHz)	2422

Modulation	HT40	Test Freq. (MHz)	2462

3.5.5 Transmitter Conducted Unwanted Emissions (Above 1GHz)

Modulation	11b	Test Freq. (MHz)	2412

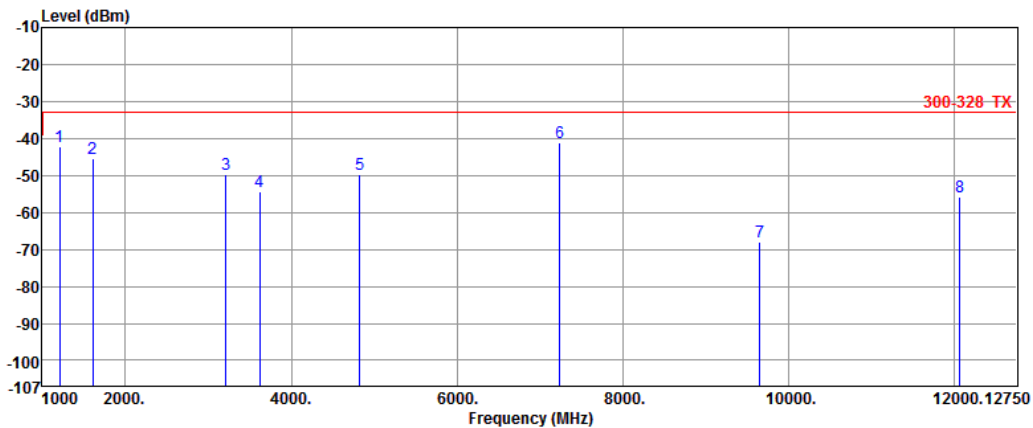
Modulation	11b	Test Freq. (MHz)	2472
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1235.93	-43.36	-33.01	-10.35	0.00	-43.36
2	1648.14	-46.18	-33.01	-13.17	0.00	-46.18
3	3296.10	-53.43	-33.01	-20.42	0.00	-53.43
4	3707.96	-56.98	-33.01	-23.97	0.00	-56.98
5	4943.97	-58.15	-33.01	-25.14	0.00	-58.15
6	7416.58	-45.02	-33.01	-12.01	0.00	-45.02
7	9888.16	-70.05	-33.01	-37.04	0.00	-70.05
8	12360.73	-55.25	-33.01	-22.24	0.00	-55.25

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

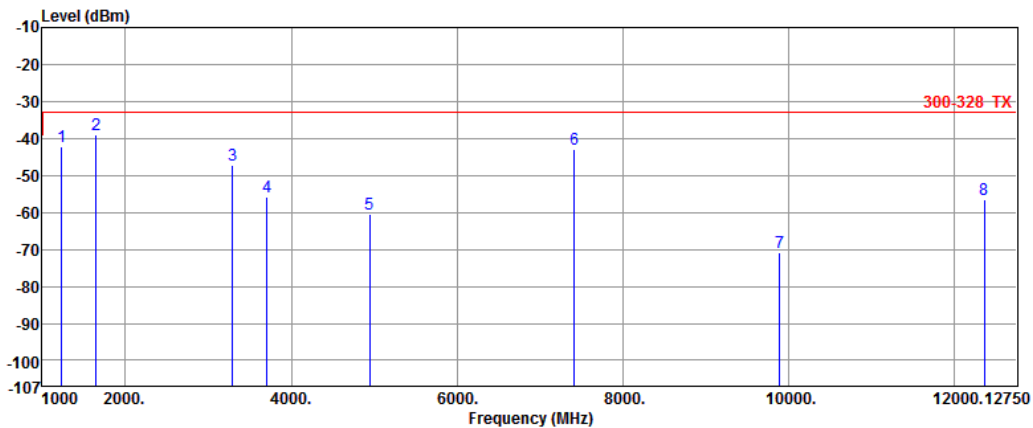
Modulation	11g	Test Freq. (MHz)	2412
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1205.92	-42.37	-33.01	-9.36	0.00	-42.37
2	1607.85	-45.56	-33.01	-12.55	0.00	-45.56
3	3215.96	-49.62	-33.01	-16.61	0.00	-49.62
4	3618.90	-54.51	-33.01	-21.50	0.00	-54.51
5	4824.80	-49.83	-33.01	-16.82	0.00	-49.83
6	7236.40	-41.00	-33.01	-7.99	0.00	-41.00
7	9648.90	-67.93	-33.01	-34.92	0.00	-67.93
8	12060.20	-55.79	-33.01	-22.78	0.00	-55.79

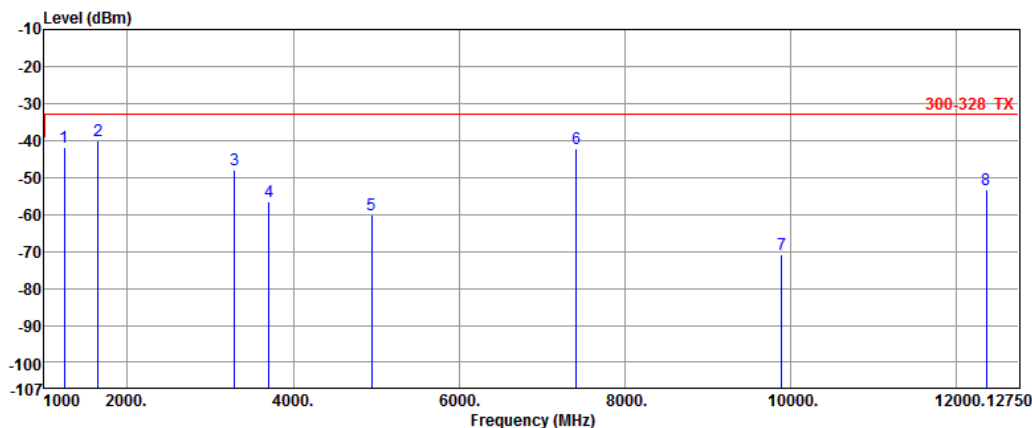
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
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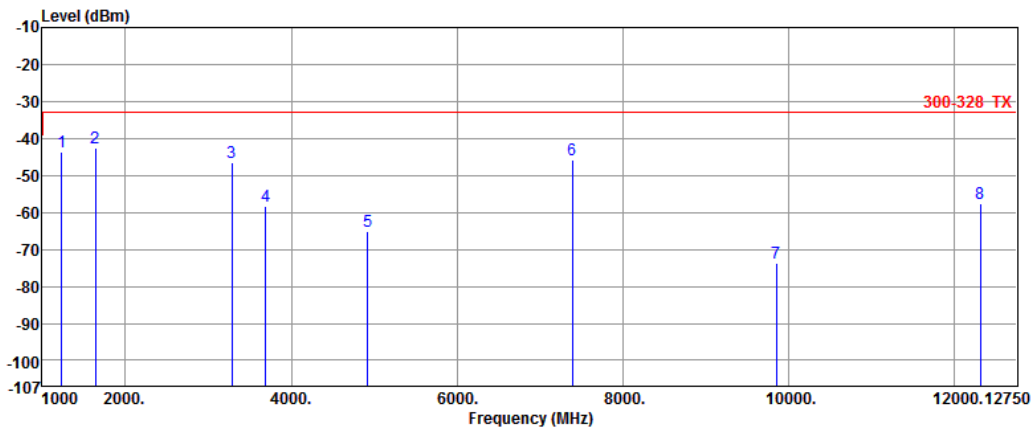
Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 1235.76	-42.07	-33.01	-9.06	0.00	-42.07
2 1648.75	-38.82	-33.01	-5.81	0.00	-38.82
3 3296.20	-47.10	-33.01	-14.09	0.00	-47.10
4 3708.20	-55.78	-33.01	-22.77	0.00	-55.78
5 4944.20	-60.40	-33.01	-27.39	0.00	-60.40
6 7416.90	-43.10	-33.01	-10.09	0.00	-43.10
7 9888.10	-70.95	-33.01	-37.94	0.00	-70.95
8 12360.10	-56.62	-33.01	-23.61	0.00	-56.62

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT20	Test Freq. (MHz)	2472																																																																						
 <table><tr><td></td><td>Freq.</td><td>Measured value</td><td>Limit</td><td>Margin</td><td>Factor</td><td>Reading</td></tr><tr><td></td><td>MHz</td><td>dBm</td><td>dBm</td><td>dB</td><td>dB</td><td>dBm</td></tr><tr><td>1</td><td>1236.75</td><td>-41.70</td><td>-33.01</td><td>-8.69</td><td>0.00</td><td>-41.70</td></tr><tr><td>2</td><td>1648.65</td><td>-39.90</td><td>-33.01</td><td>-6.89</td><td>0.00</td><td>-39.90</td></tr><tr><td>3</td><td>3295.96</td><td>-47.87</td><td>-33.01</td><td>-14.86</td><td>0.00</td><td>-47.87</td></tr><tr><td>4</td><td>3708.98</td><td>-56.38</td><td>-33.01</td><td>-23.37</td><td>0.00</td><td>-56.38</td></tr><tr><td>5</td><td>4944.75</td><td>-60.20</td><td>-33.01</td><td>-27.19</td><td>0.00</td><td>-60.20</td></tr><tr><td>6</td><td>7416.20</td><td>-42.16</td><td>-33.01</td><td>-9.15</td><td>0.00</td><td>-42.16</td></tr><tr><td>7</td><td>9888.40</td><td>-71.00</td><td>-33.01</td><td>-37.99</td><td>0.00</td><td>-71.00</td></tr><tr><td>8</td><td>12360.75</td><td>-53.23</td><td>-33.01</td><td>-20.22</td><td>0.00</td><td>-53.23</td></tr></table>					Freq.	Measured value	Limit	Margin	Factor	Reading		MHz	dBm	dBm	dB	dB	dBm	1	1236.75	-41.70	-33.01	-8.69	0.00	-41.70	2	1648.65	-39.90	-33.01	-6.89	0.00	-39.90	3	3295.96	-47.87	-33.01	-14.86	0.00	-47.87	4	3708.98	-56.38	-33.01	-23.37	0.00	-56.38	5	4944.75	-60.20	-33.01	-27.19	0.00	-60.20	6	7416.20	-42.16	-33.01	-9.15	0.00	-42.16	7	9888.40	-71.00	-33.01	-37.99	0.00	-71.00	8	12360.75	-53.23	-33.01	-20.22	0.00	-53.23
	Freq.	Measured value	Limit	Margin	Factor	Reading																																																																			
	MHz	dBm	dBm	dB	dB	dBm																																																																			
1	1236.75	-41.70	-33.01	-8.69	0.00	-41.70																																																																			
2	1648.65	-39.90	-33.01	-6.89	0.00	-39.90																																																																			
3	3295.96	-47.87	-33.01	-14.86	0.00	-47.87																																																																			
4	3708.98	-56.38	-33.01	-23.37	0.00	-56.38																																																																			
5	4944.75	-60.20	-33.01	-27.19	0.00	-60.20																																																																			
6	7416.20	-42.16	-33.01	-9.15	0.00	-42.16																																																																			
7	9888.40	-71.00	-33.01	-37.99	0.00	-71.00																																																																			
8	12360.75	-53.23	-33.01	-20.22	0.00	-53.23																																																																			
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB) Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)																																																																									

Modulation	HT40	Test Freq. (MHz)	2422
Level (dBm)			

Modulation	HT40	Test Freq. (MHz)	2462
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1231.09	-43.67	-33.01	-10.66	0.00	-43.67
2	1641.37	-42.59	-33.01	-9.58	0.00	-42.59
3	3282.54	-46.40	-33.01	-13.39	0.00	-46.40
4	3693.95	-58.17	-33.01	-25.16	0.00	-58.17
5	4924.30	-65.12	-33.01	-32.11	0.00	-65.12
6	7386.40	-45.73	-33.01	-12.72	0.00	-45.73
7	9848.70	-73.58	-33.01	-40.57	0.00	-73.58
8	12310.20	-57.53	-33.01	-24.52	0.00	-57.53

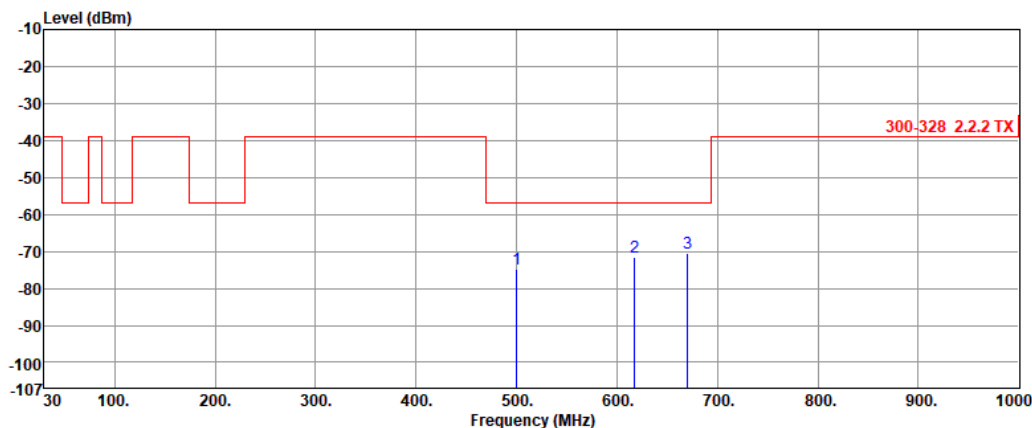
Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Aux Port

3.5.6 Transmitter Conducted Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Level (dBm) </			

Modulation	11g	Test Freq. (MHz)	2472
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Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	500.45	-74.84	-57.01	-17.83	0.00	-74.84
2	617.82	-71.50	-57.01	-14.49	0.00	-71.50
3	670.11	-70.55	-57.01	-13.54	0.00	-70.55

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

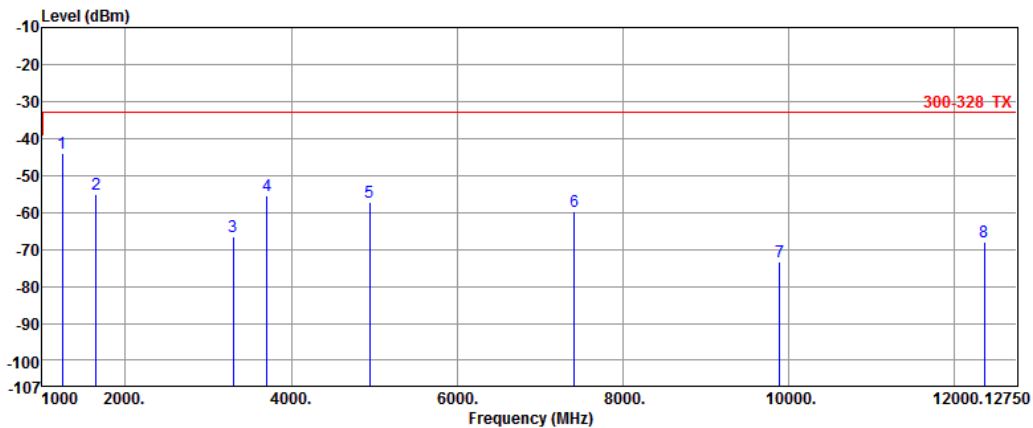
Modulation	HT40	Test Freq. (MHz)	2422
Level (dBm)			

Modulation	HT40	Test Freq. (MHz)	2462

3.5.7 Transmitter Conducted Unwanted Emissions (Above 1GHz)

Modulation	11b	Test Freq. (MHz)	2412
Level (dBm) </			

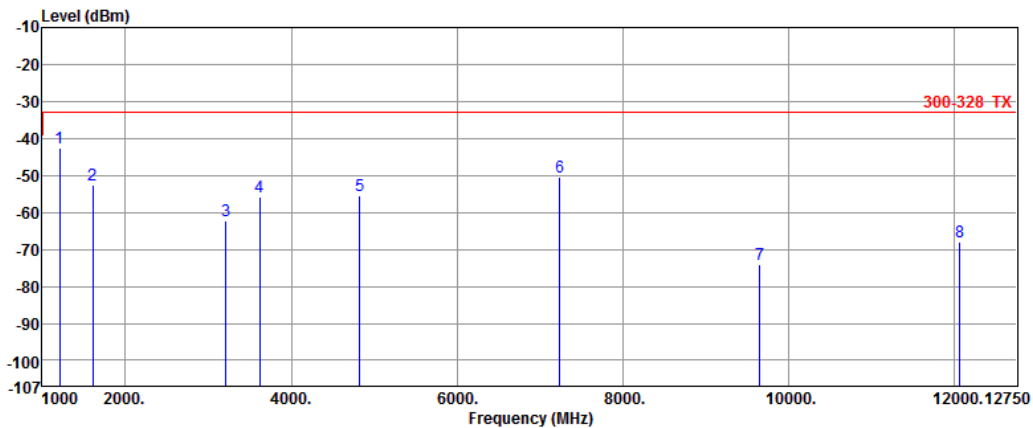
Modulation	11b	Test Freq. (MHz)	2472
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1236.08	-43.92	-33.01	-10.91	0.00	-43.92
2	1648.28	-54.95	-33.01	-21.94	0.00	-54.95
3	3296.69	-66.69	-33.01	-33.68	0.00	-66.69
4	3708.95	-55.30	-33.01	-22.29	0.00	-55.30
5	4944.02	-57.17	-33.01	-24.16	0.00	-57.17
6	7416.22	-59.62	-33.01	-26.61	0.00	-59.62
7	9888.44	-73.29	-33.01	-40.28	0.00	-73.29
8	12360.35	-67.89	-33.01	-34.88	0.00	-67.89

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

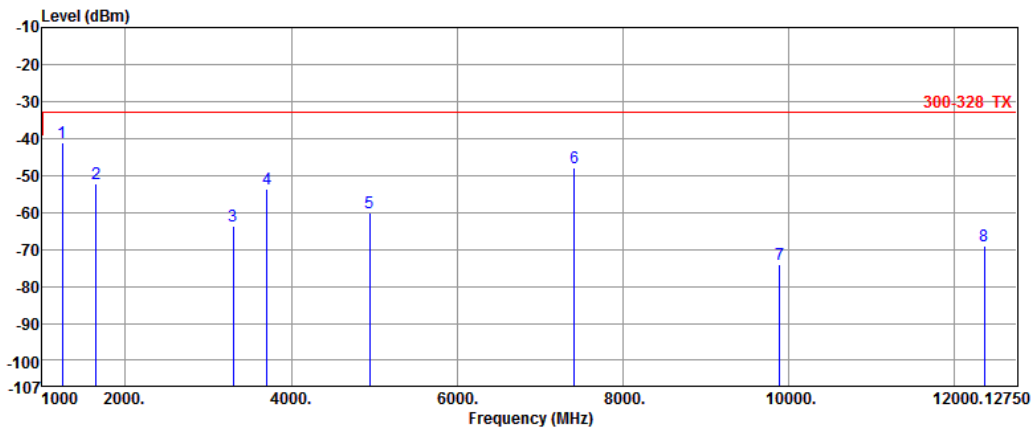
Modulation	11g	Test Freq. (MHz)	2412
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	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1205.98	-42.54	-33.01	-9.53	0.00	-42.54
2	1607.45	-52.52	-33.01	-19.51	0.00	-52.52
3	3216.73	-62.22	-33.01	-29.21	0.00	-62.22
4	3618.30	-55.75	-33.01	-22.74	0.00	-55.75
5	4824.70	-55.28	-33.01	-22.27	0.00	-55.28
6	7236.10	-50.46	-33.01	-17.45	0.00	-50.46
7	9648.20	-74.13	-33.01	-41.12	0.00	-74.13
8	12060.55	-68.02	-33.01	-35.01	0.00	-68.02

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
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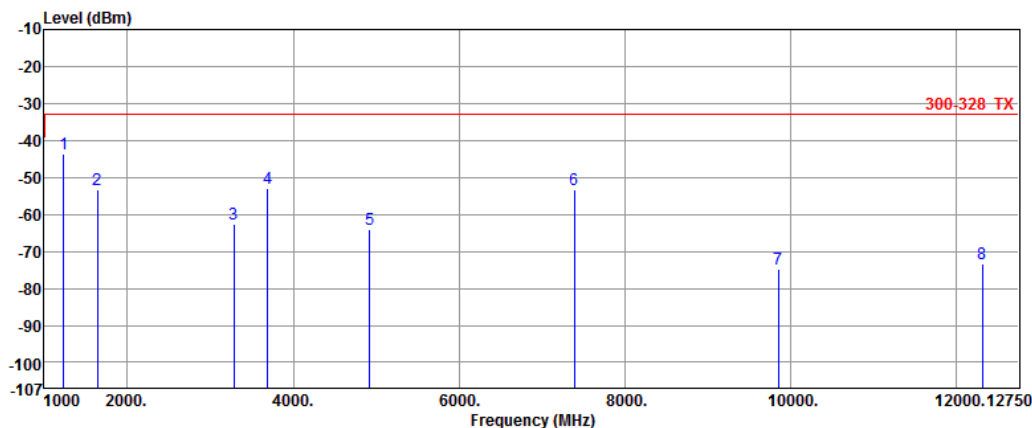
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1235.96	-41.18	-33.01	-8.17	0.00	-41.18
2	1648.03	-52.39	-33.01	-19.38	0.00	-52.39
3	3296.92	-63.70	-33.01	-30.69	0.00	-63.70
4	3708.04	-53.82	-33.01	-20.81	0.00	-53.82
5	4944.15	-60.17	-33.01	-27.16	0.00	-60.17
6	7416.75	-47.95	-33.01	-14.94	0.00	-47.95
7	9888.10	-74.15	-33.01	-41.14	0.00	-74.15
8	12360.40	-69.23	-33.01	-36.22	0.00	-69.23

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT20	Test Freq. (MHz)	2412
Level (dBm)			

Modulation	HT40	Test Freq. (MHz)	2422
Level (dBm)			

Modulation	HT40	Test Freq. (MHz)	2462
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Level (dBm)

Frequency (MHz)

300.328-TX

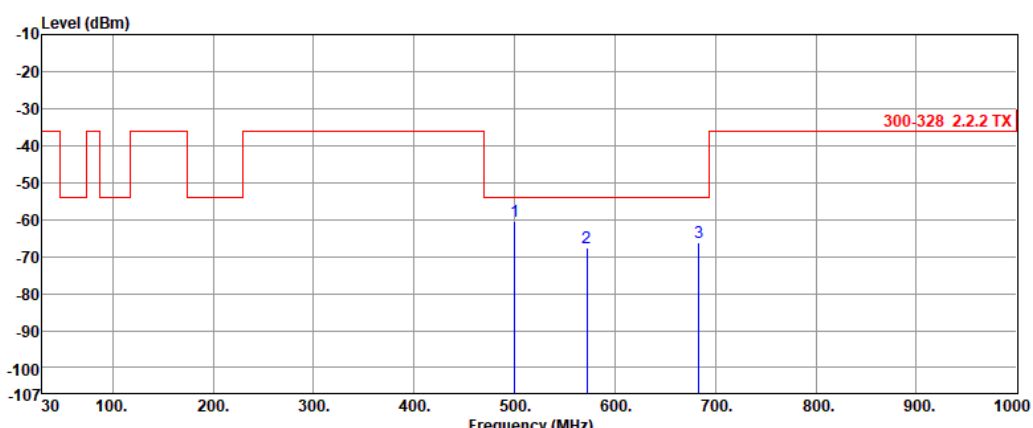
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	1231.20	-43.80	-33.01	-10.79	0.00	-43.80
2	1641.90	-53.30	-33.01	-20.29	0.00	-53.30
3	3282.32	-62.70	-33.01	-29.69	0.00	-62.70
4	3693.85	-53.06	-33.01	-20.05	0.00	-53.06
5	4924.10	-63.98	-33.01	-30.97	0.00	-63.98
6	7386.70	-53.47	-33.01	-20.46	0.00	-53.47
7	9848.30	-74.66	-33.01	-41.65	0.00	-74.66
8	12310.10	-73.29	-33.01	-40.28	0.00	-73.29

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.5.8 Transmitter Radiated Unwanted Emissions (Below 1GHz)

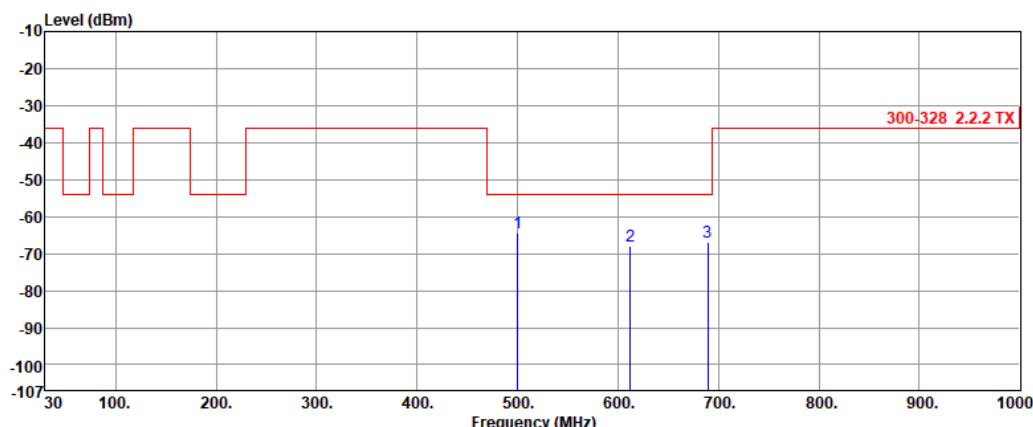
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-60.52	-54.00	-6.52	3.46	-63.98
2	572.23	-67.53	-54.00	-13.53	5.02	-72.55
3	683.71	-66.37	-54.00	-12.37	6.51	-72.88

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
 Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		

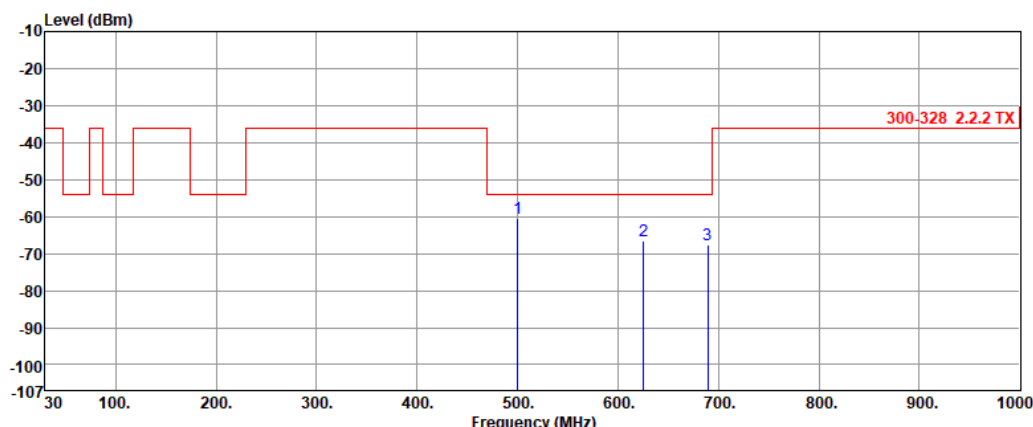


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-64.27	-54.00	-10.27	3.37	-67.64
2	612.00	-67.95	-54.00	-13.95	6.01	-73.96
3	689.71	-66.76	-54.00	-12.76	6.71	-73.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

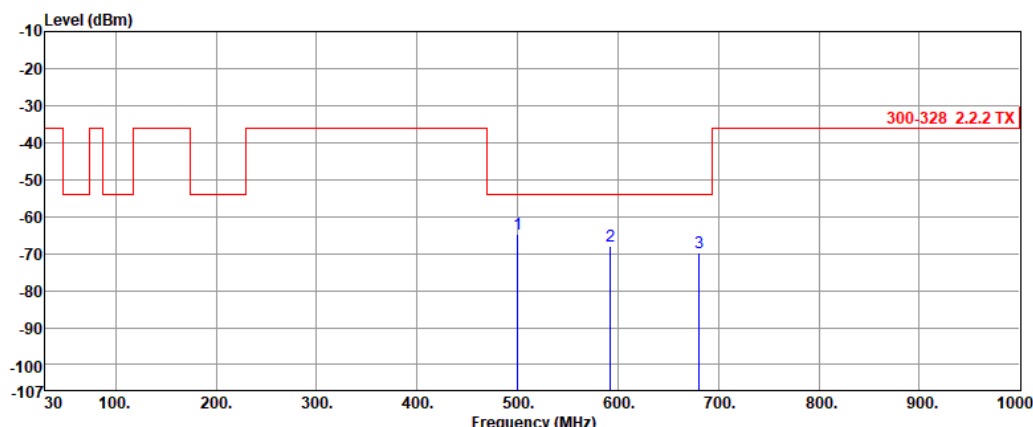


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-60.54	-54.00	-6.54	3.46	-64.00
2	625.58	-66.69	-54.00	-12.69	5.90	-72.59
3	689.71	-67.46	-54.00	-13.46	6.71	-74.17

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

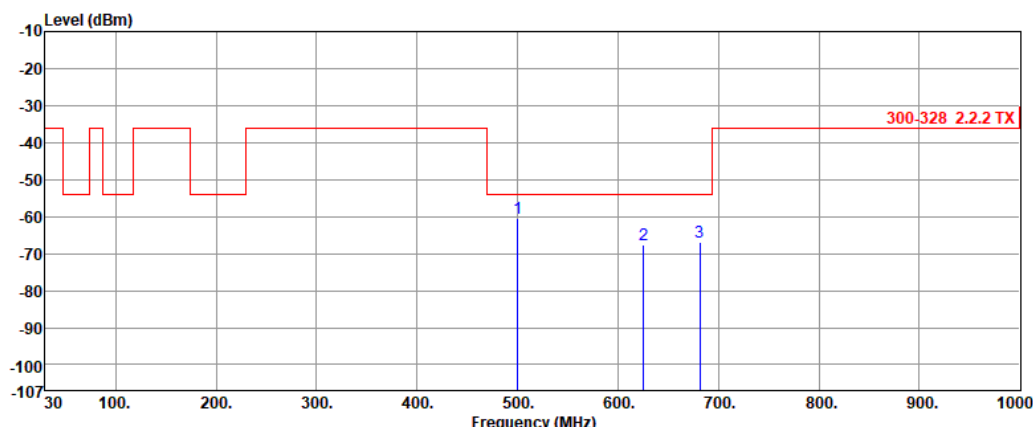


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	500.45	-64.87	-54.00	-10.87	3.37	-68.24
2	592.60	-68.04	-54.00	-14.04	5.55	-73.59
3	680.71	-69.83	-54.00	-15.83	6.51	-76.34

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

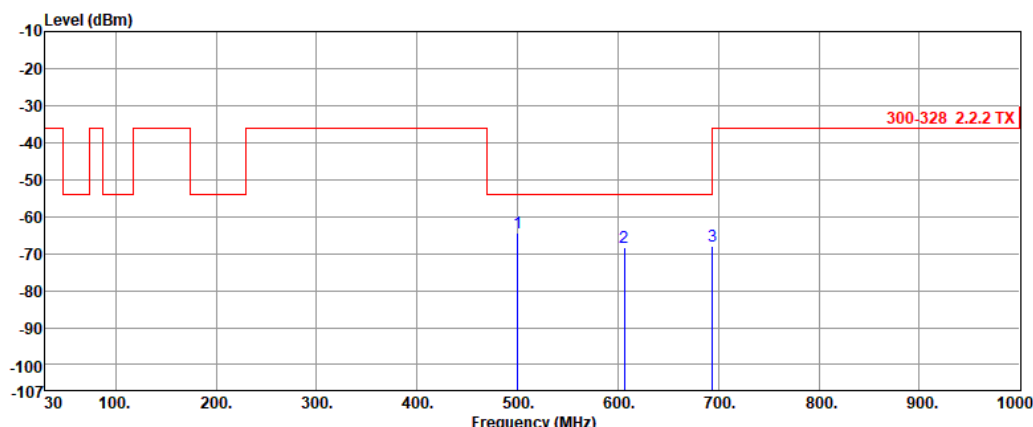


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-60.53	-54.00	-6.53	3.46	-63.99
2	625.58	-67.46	-54.00	-13.46	5.90	-73.36
3	681.71	-67.03	-54.00	-13.03	6.49	-73.52

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		



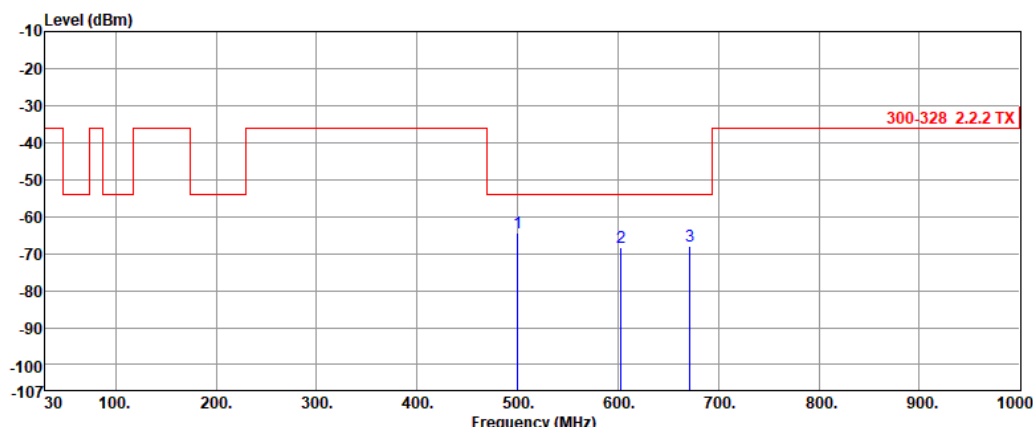
	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-64.46	-54.00	-10.46	3.37	-67.83
2	606.18	-68.34	-54.00	-14.34	5.93	-74.27
3	693.71	-68.05	-54.00	-14.05	6.79	-74.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	500.45	-64.40	-54.00	-10.40	3.37	-67.77
2	603.27	-68.51	-54.00	-14.51	5.83	-74.34
3	671.52	-68.08	-54.00	-14.08	6.41	-74.49

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.5.9 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 802.11b

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		
<			

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		
<			

Modulation	11b	Test Freq. (MHz)	2472
Polarization	Horizontal		
<			

Modulation	11b	Test Freq. (MHz)	2472
Polarization	Vertical		

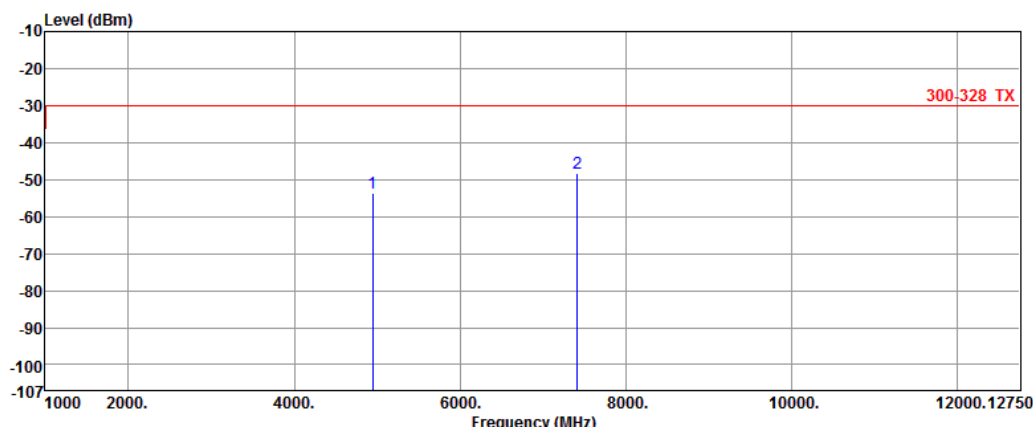
Level (dBm)

<

3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 802.11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
<			

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

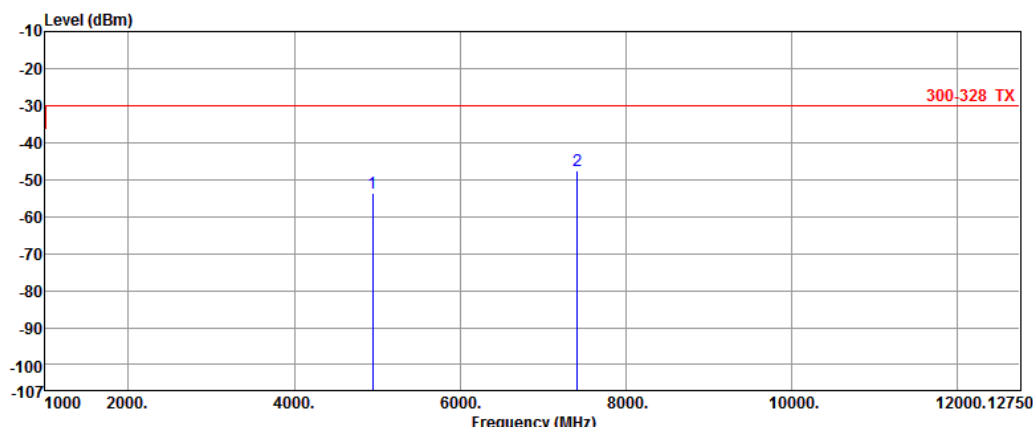


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.79	-53.69	-30.00	-23.69	12.59	-66.28
2	7416.01	-48.42	-30.00	-18.42	17.28	-65.70

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	4944.06	-53.58	-30.00	-23.58	12.84	-66.42
2	7416.96	-47.47	-30.00	-17.47	17.00	-64.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

3.5.11 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 802.11n HT20

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		

Level (dBm)

<

Modulation	HT20	Test Freq. (MHz)	2472
Polarization	Horizontal		
</			

Modulation	HT20	Test Freq. (MHz)	2472
Polarization	Vertical		

3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 802.11n HT40

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
<			

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

Level (dBm)

<

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		

Level (dBm)

<

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		

Level (dBm)

<

4 Receiver Test Results

4.1 Receiver Spurious Emissions

4.1.1 Limit of Receiver Spurious Emissions

Limit for Radiated Spurious Emission

Frequency Range	Maximum power (dBm)	Measurement bandwidth (kHz)
30 MHz to 1 GHz	-57	100
Above 1 GHz to 12,75 GHz	-47	1000

Limit for Conducted Spurious Emission

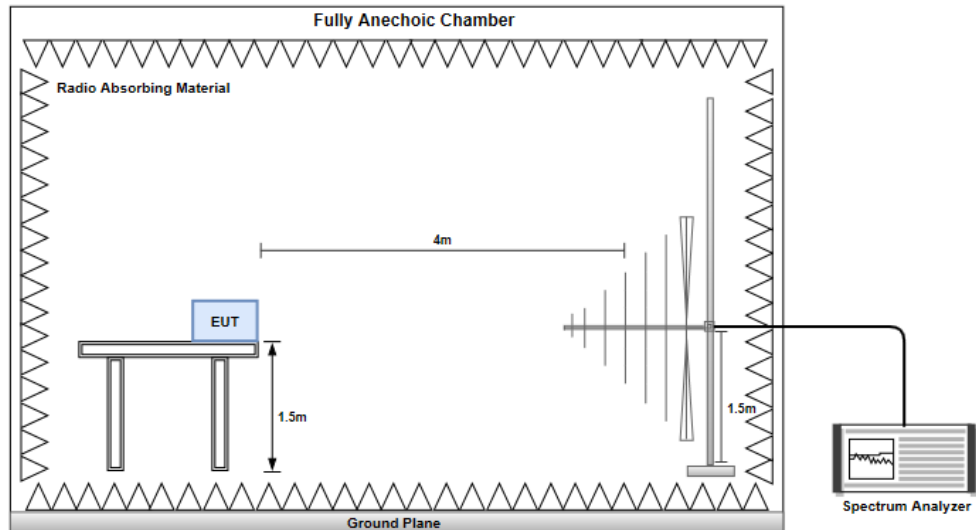
Frequency Range	Maximum power (dBm)	Measurement bandwidth (kHz)
30 MHz to 1 GHz	-60.01	100
Above 1 GHz to 12,75 GHz	-50.01	1000

4.1.2 Test Procedures

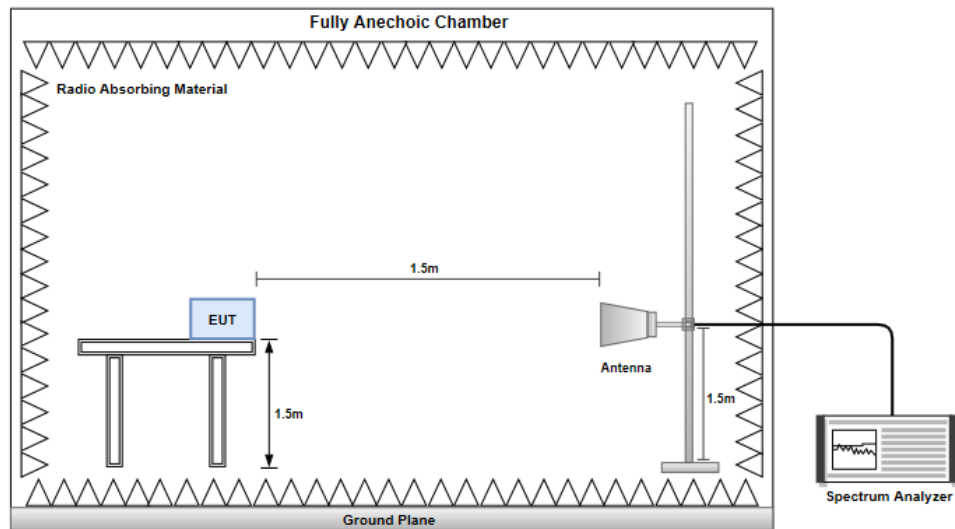
Reference to clause 5.4.10.2 of ETSI EN 300 328 V2.2.2 (2019-07).

4.1.3 Test Setup

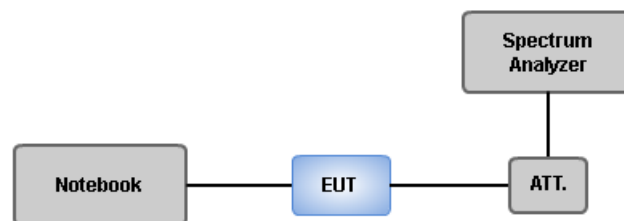
Below 1GHz



Above 1 GHz



Conducted Emission



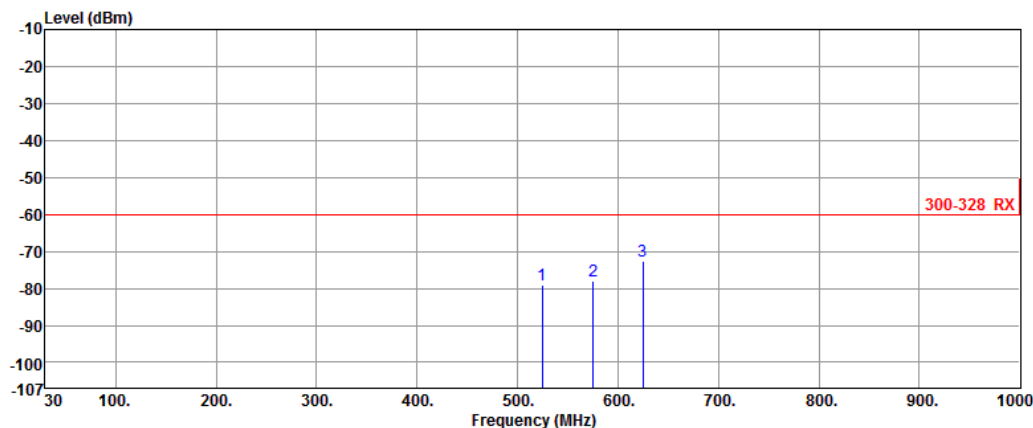
Main Port

4.1.4 Receiver Conducted Spurious Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Level (dBm) </			

Modulation	11g	Test Freq. (MHz)	2472
Level (dBm)			

Modulation	HT40	Test Freq. (MHz)	2422
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Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	524.70	-78.94	-60.01	-18.93	0.00	-78.94
2	575.14	-78.08	-60.01	-18.07	0.00	-78.08
3	624.61	-72.52	-60.01	-12.51	0.00	-72.52

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2462
Level (dBm) </			

4.1.5 Receiver Conducted Spurious Emissions (Above 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Level (dBm)			

Modulation	11g	Test Freq. (MHz)	2472

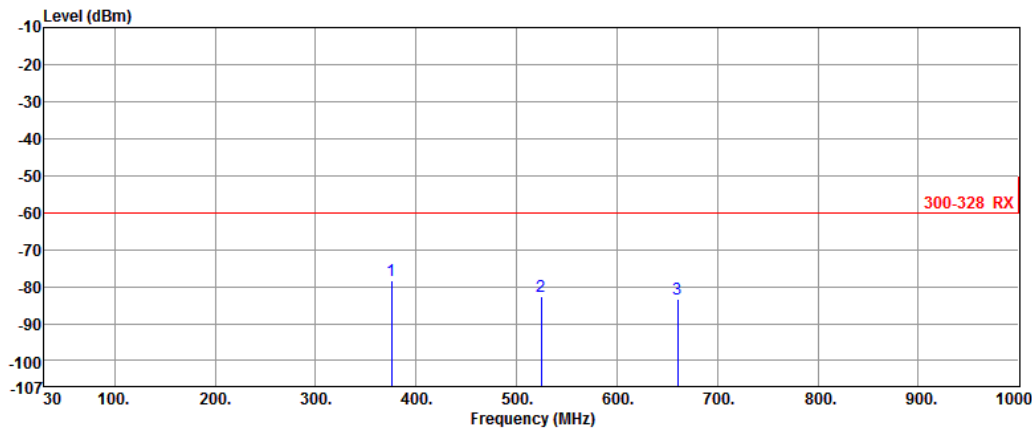
Modulation	HT40	Test Freq. (MHz)	2422

Modulation	HT40	Test Freq. (MHz)	2462

Aux Port

4.1.6 Receiver Conducted Spurious Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
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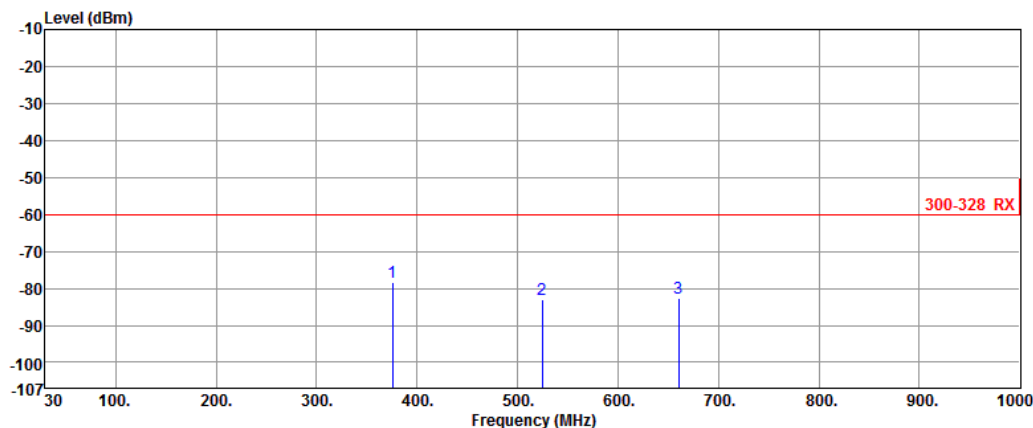


Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	375.32	-78.26	-60.01	-18.25	0.00	-78.26
2	524.70	-82.62	-60.01	-22.61	0.00	-82.62
3	660.50	-83.22	-60.01	-23.21	0.00	-83.22

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
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Freq.	Measured value	Limit	Margin	Factor	Reading	
MHz	dBm	dBm	dB	dB	dBm	
1	375.32	-78.40	-60.01	-18.39	0.00	-78.40
2	524.70	-82.89	-60.01	-22.88	0.00	-82.89
3	660.50	-82.83	-60.01	-22.82	0.00	-82.83

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)
Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2422
Level (dBm)			

4.1.7 Receiver Conducted Spurious Emissions (Above 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Level (dBm)			

Modulation	11g	Test Freq. (MHz)	2472

Modulation	HT40	Test Freq. (MHz)	2422

Modulation	HT40	Test Freq. (MHz)	2462
<			

4.1.8 Receiver Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
<			

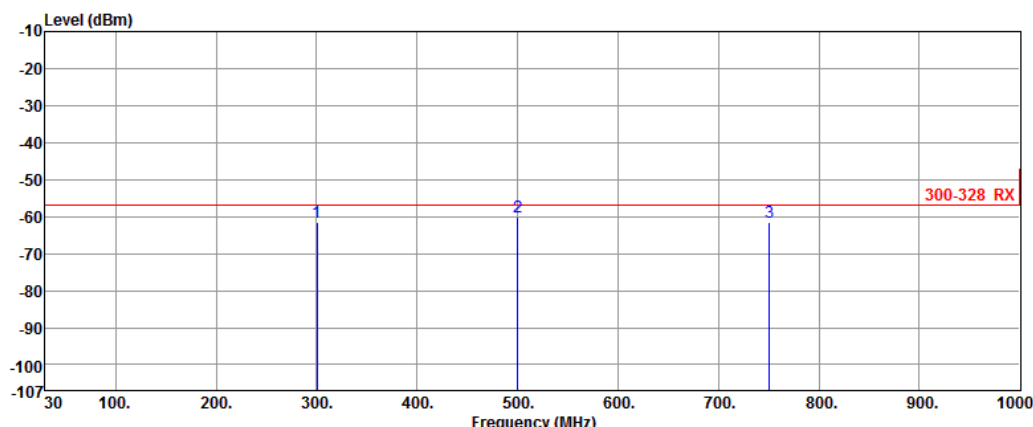
Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		

	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	35.82	-65.52	-57.00	-8.52	-1.67	-63.85
2	375.32	-64.35	-57.00	-7.35	0.73	-65.08
3	500.45	-64.47	-57.00	-7.47	3.37	-67.84

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

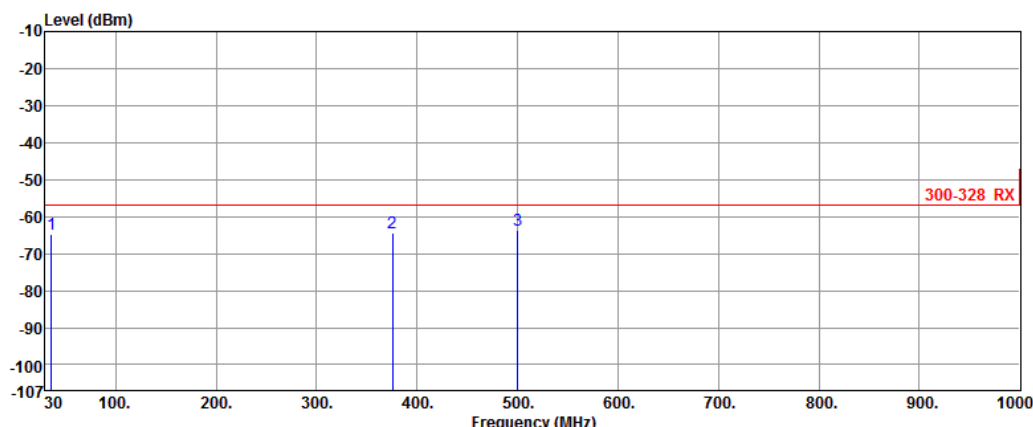


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	300.63	-61.67	-57.00	-4.67	-1.44	-60.23
2	500.45	-60.23	-57.00	-3.23	3.46	-63.69
3	750.71	-61.52	-57.00	-4.52	7.95	-69.47

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	35.82	-64.79	-57.00	-7.79	-1.67	-63.12
2	375.32	-64.39	-57.00	-7.39	0.73	-65.12
3	500.45	-63.84	-57.00	-6.84	3.37	-67.21

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

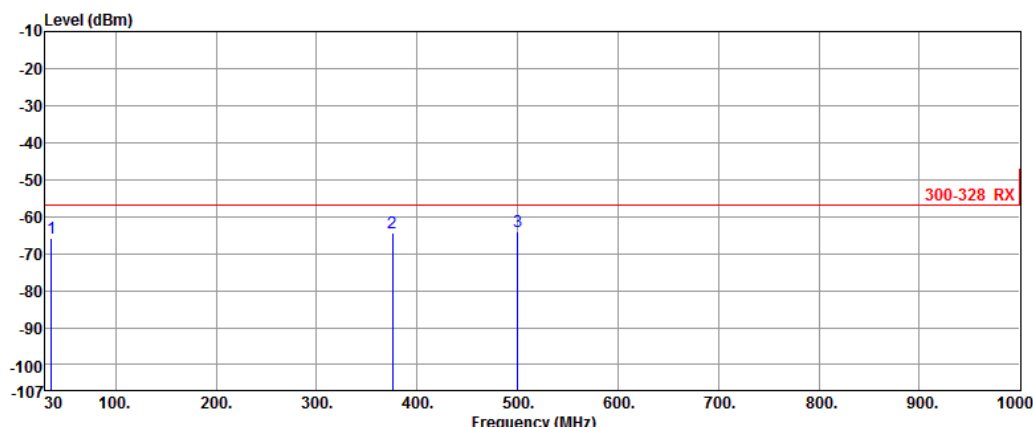
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	300.63	-62.05	-57.00	-5.05	-1.44	-60.61
2	500.45	-60.69	-57.00	-3.69	3.46	-64.15
3	750.71	-61.83	-57.00	-4.83	7.95	-69.78

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

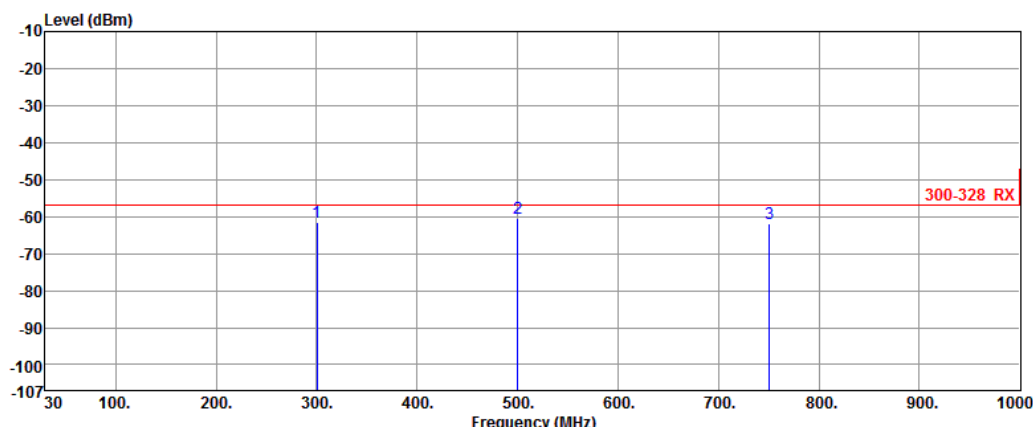


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	35.82	-65.86	-57.00	-8.86	-1.67	-64.19
2	375.32	-64.32	-57.00	-7.32	0.73	-65.05
3	500.45	-64.04	-57.00	-7.04	3.37	-67.41

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		

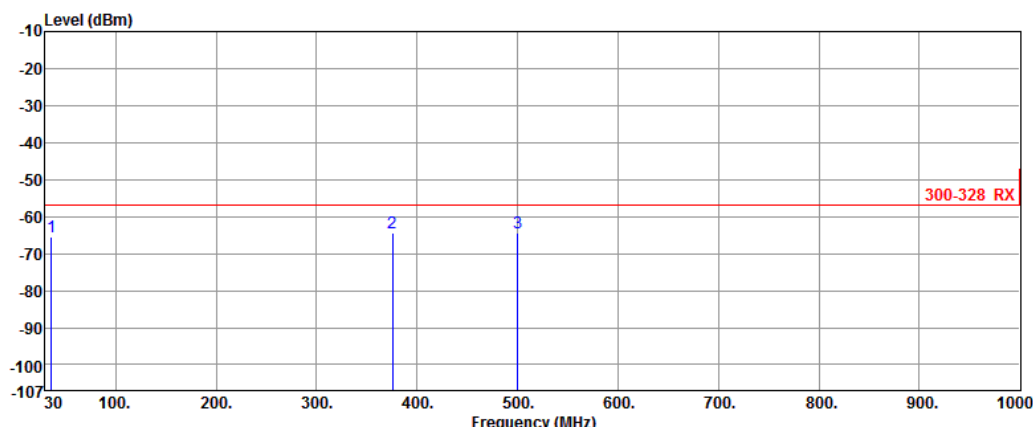


	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	300.63	-61.72	-57.00	-4.72	-1.44	-60.28
2	500.45	-60.31	-57.00	-3.31	3.46	-63.77
3	750.71	-61.95	-57.00	-4.95	7.95	-69.90

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		



	Freq.	Measured value	Limit	Margin	Factor	Reading
	MHz	dBm	dBm	dB	dB	dBm
1	35.82	-65.60	-57.00	-8.60	-1.67	-63.93
2	375.32	-64.38	-57.00	-7.38	0.73	-65.11
3	500.45	-64.58	-57.00	-7.58	3.37	-67.95

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

4.1.9 Receiver Radiated Unwanted Emissions (Above 1GHz)

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
<			

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		

Level (dBm)

</

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Horizontal		

Level (dBm)

Modulation	11g	Test Freq. (MHz)	2472
Polarization	Vertical		

Level (dBm)

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
<			

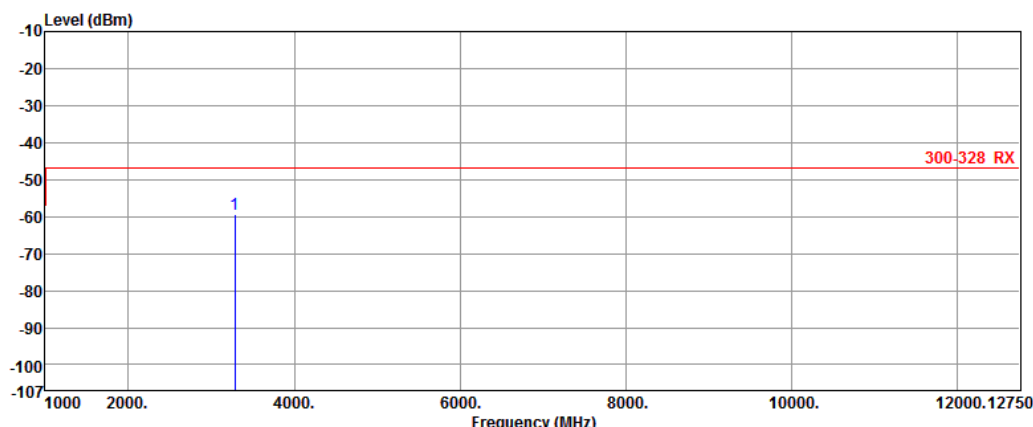
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		

Level (dBm)

<

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Horizontal		
<			

Modulation	HT40	Test Freq. (MHz)	2462
Polarization	Vertical		



Freq.	Measured value	Limit	Margin	Factor	Reading
MHz	dBm	dBm	dB	dB	dBm
1 3282.68	-59.34	-47.00	-12.34	6.66	-66.00

Note 1: Measured Value (dBm) = Reading (dBm) + Factor (dB)

Note 2: Margin (dB) = Measured Value (dBm) – Limit (dBm)

5 Adaptivity Test Results

5.1 Adaptivity and Unwanted Signal Parameters

5.1.1 Limit of Adaptivity and Unwanted Signal Parameters

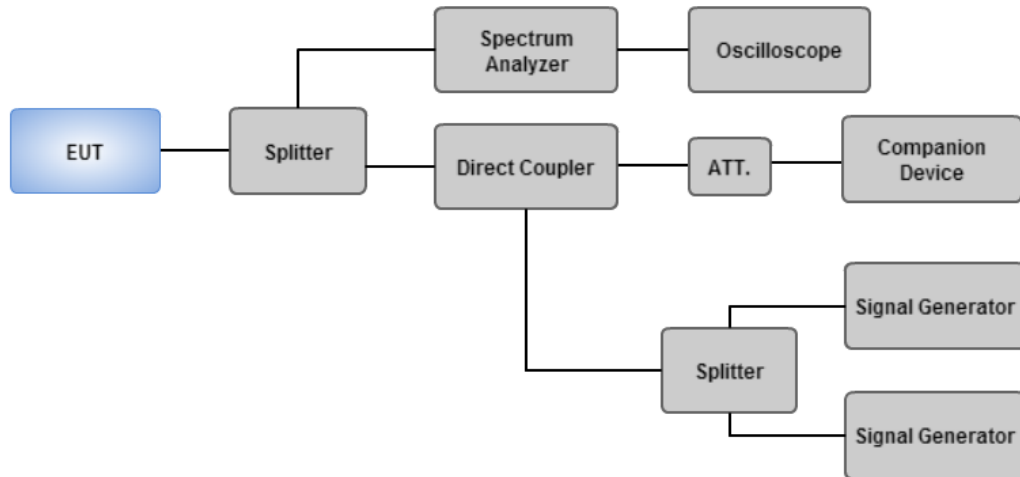
Adaptivity and Unwanted Signal Limit	
☒	Only for adaptive systems and RF Output Power > 10 dBm
☐	Non-LBT based Detect and Avoid: • minimum remain unavailable = 1sec; • minimum Idle Period time = 100us; • maximum Channel Occupancy Time (COT) = 40ms • detection threshold level = $-70 \text{ dBm/MHz} + 10 \times \log_{10}(100\text{mW} / P_{\text{out}})$ (P_{out} in mW e.i.r.p);
☐	LBT based Detect and Avoid (Frame Based Equipment): • minimum Clear Channel Assessment (CCA) time = 18 us; • COT = 1 ms to 10 ms • Idle Period = 5% of COT • detection threshold level = $-70 \text{ dBm/MHz} + 10 \times \log_{10}(100\text{mW} / P_{\text{out}})$ (P_{out} in mW e.i.r.p);
☒	LBT based Detect and Avoid (Load Based Equipment with spectrum sharing mechanism IEEE Std.): • LBT based spectrum sharing mechanism may implement IEEE 802.11™-2012 [i.3] clause 9, clause 10, clause 16, clause 17, clause 19 and clause 20, or in IEEE 802.15.4™-2011 [i.4], clause 4, clause 5 and clause 8 • detection threshold level = $-70 \text{ dBm/MHz} + 10 \times \log_{10}(100\text{mW} / P_{\text{out}})$ (P_{out} in mW e.i.r.p);
☒	Short Control Signalling Transmissions: • Short Control Signalling Transmissions shall have a maximum duty cycle of 10 % within an observation period of 50 ms.

Unwanted Signal Parameters				
Equipment Type	Wanted Signal Mean Power from Companion Device	Blocking Signal Frequency (MHz)	Blocking Signal Mean power (dBm)	Type of Interfering Signal
LBT	sufficient to maintain the link (see note 2)	2395 or 2488,5 (see note 1)	-35 (see note 3)	CW
Non-LBT	-30 dBm			
Note 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2 442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. Note 2: A typical value which can be used in most cases is -50 dBm/MHz. Note 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.				

5.1.2 Test Procedures

Reference to clause 5.4.6.2 of ETSI EN 300 328 V2.2.2 (2019-07).

5.1.3 Test Setup



5.1.4 Test Result of Adaptivity 、Unwanted Signal and Short Control Signalling Transmissions

Adaptivity and Unwanted Signal Result						
EUT firmware / software version			6.0.0.x			
Adaptivity Detection Threshold Level (dBm)			-66.3			
Unwanted Signal Level (dBm)			-32.21			
Modulation Mode	Freq. (MHz)	Short Control Signalling Transmissions (ms)	Channel Occupancy Time (ms)	Idle Period Time (μs)	Adaptivity	Unwanted Signal Test Status
802.11b	2412	4.933	2.428	61	Pass	Pass
802.11b	2472	4.428	2.428	40		
802.11g	2412	3.1	0.366	60		
802.11g	2472	3.38	0.366	59		
802.11n (HT20)	2412	2.08	4.894	40		
802.11n (HT20)	2472	3.786	4.314	40		
802.11n (HT40)	2422	3.541	2.313	64		
802.11n (HT40)	2462	1.283	2.235	72		
Limit		< 5 ms	< 13 ms	>18μs		
Result		Complied				

5.1.5 Test Result of Adaptivity and Unwanted Signal Plots

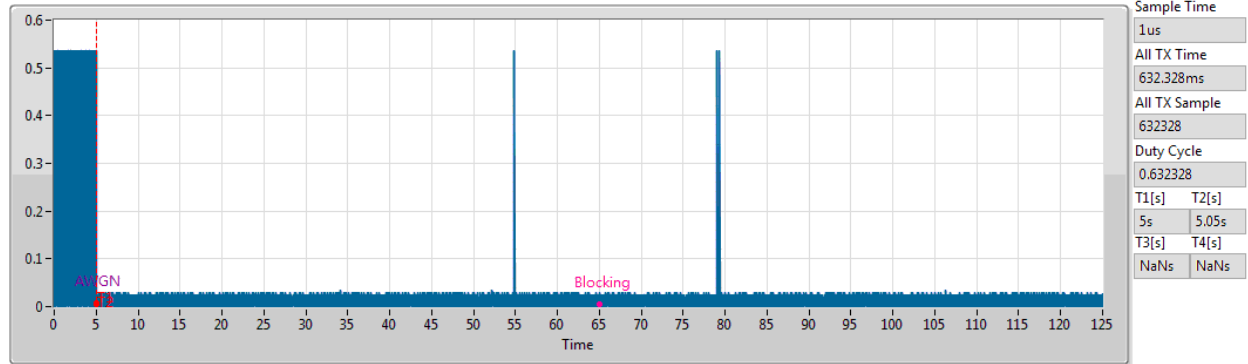


Adaptivity & Unwanted Signal Result Plots

Unwanted signal: 2488.5 MHz

802.11g - 2412MHz

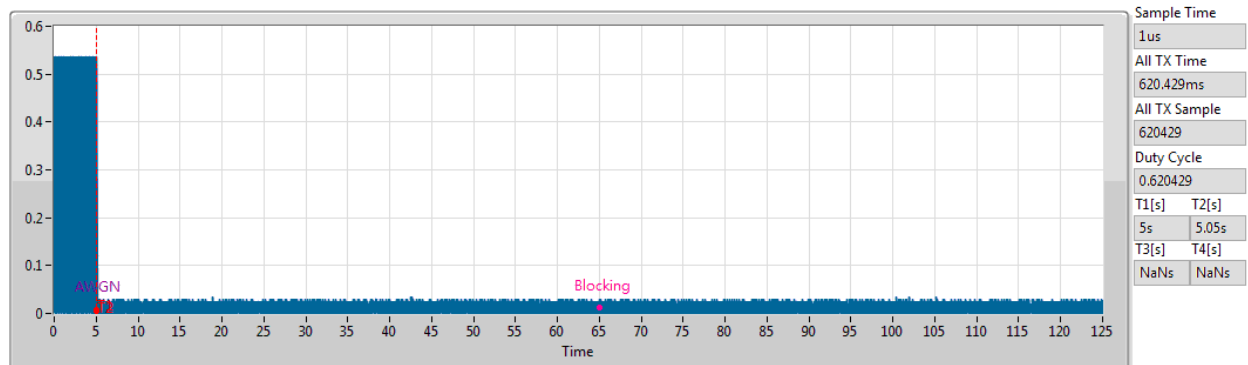
Time Analysis



Unwanted signal: 2395 MHz

802.11g - 2472MHz

Time Analysis

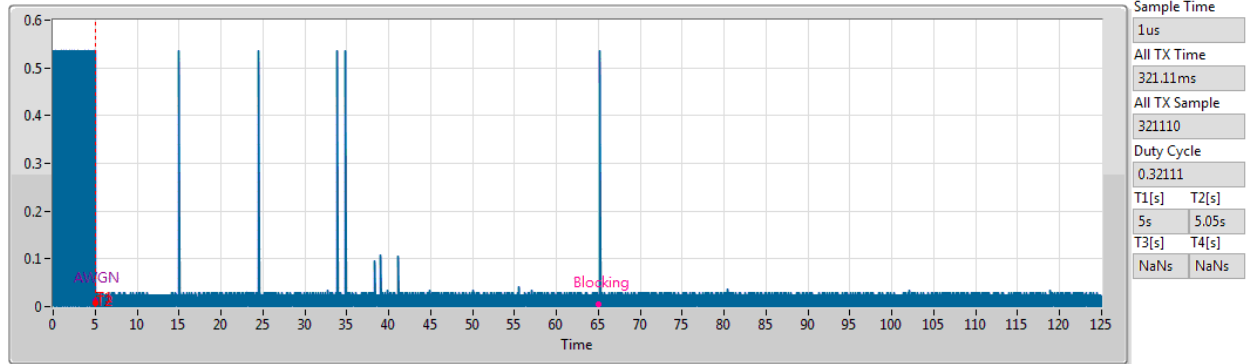


Adaptivity & Unwanted Signal Result Plots

Unwanted signal: 2488.5 MHz

802.11n (HT20) - 2412MHz

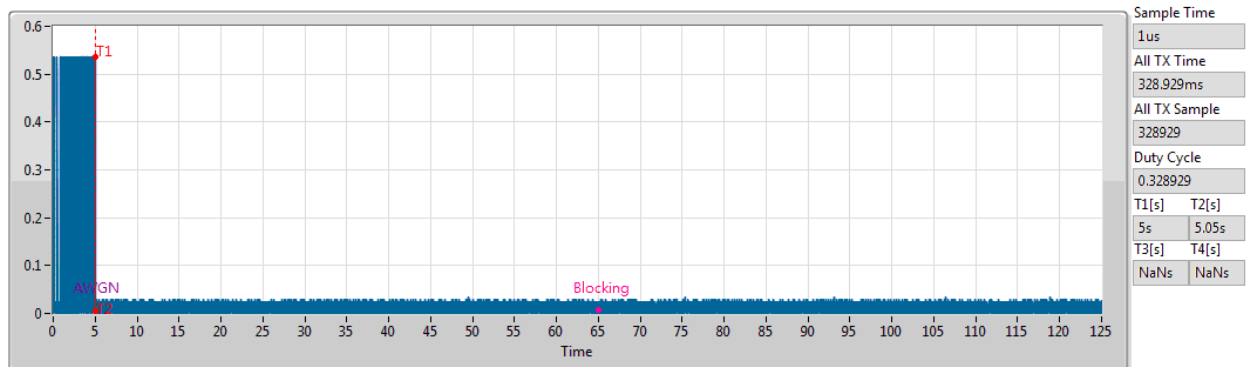
Time Analysis



Unwanted signal: 2395 MHz

802.11n (HT20) - 2472MHz

Time Analysis

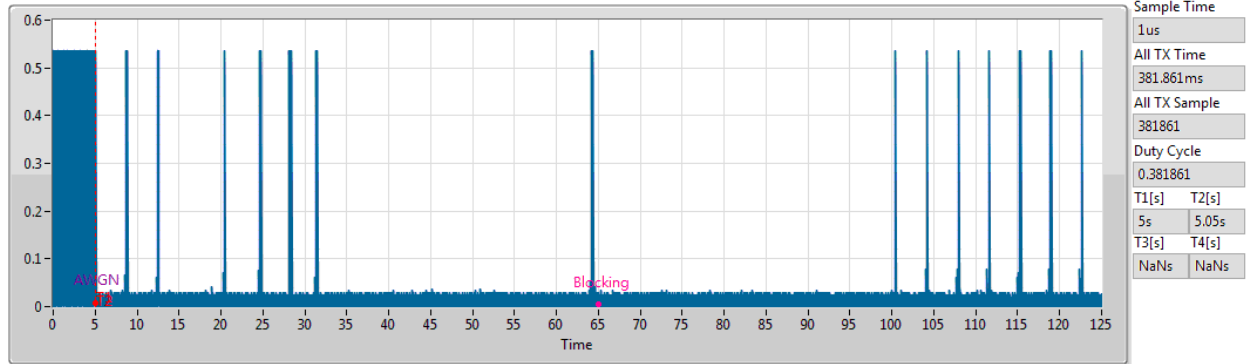


Adaptivity & Unwanted Signal Result Plots

Unwanted signal: 2488.5 MHz

802.11n (HT40) - 2422MHz

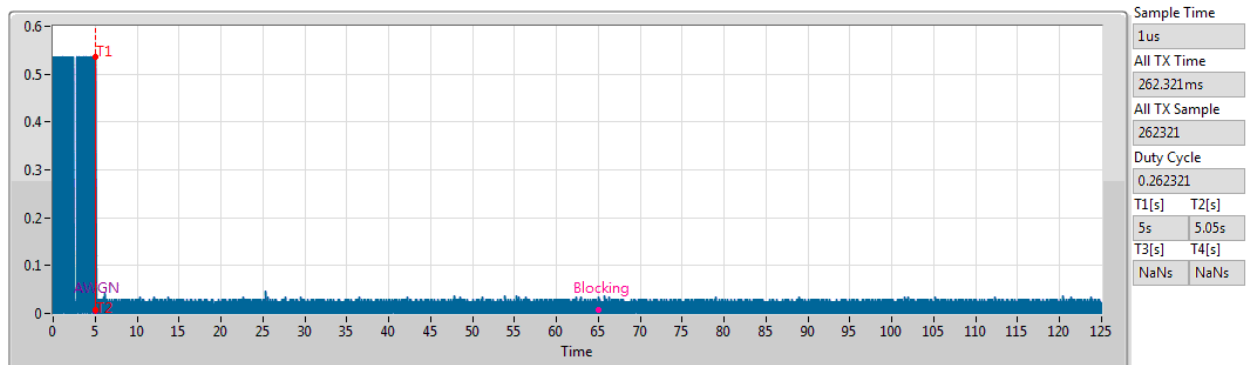
Time Analysis



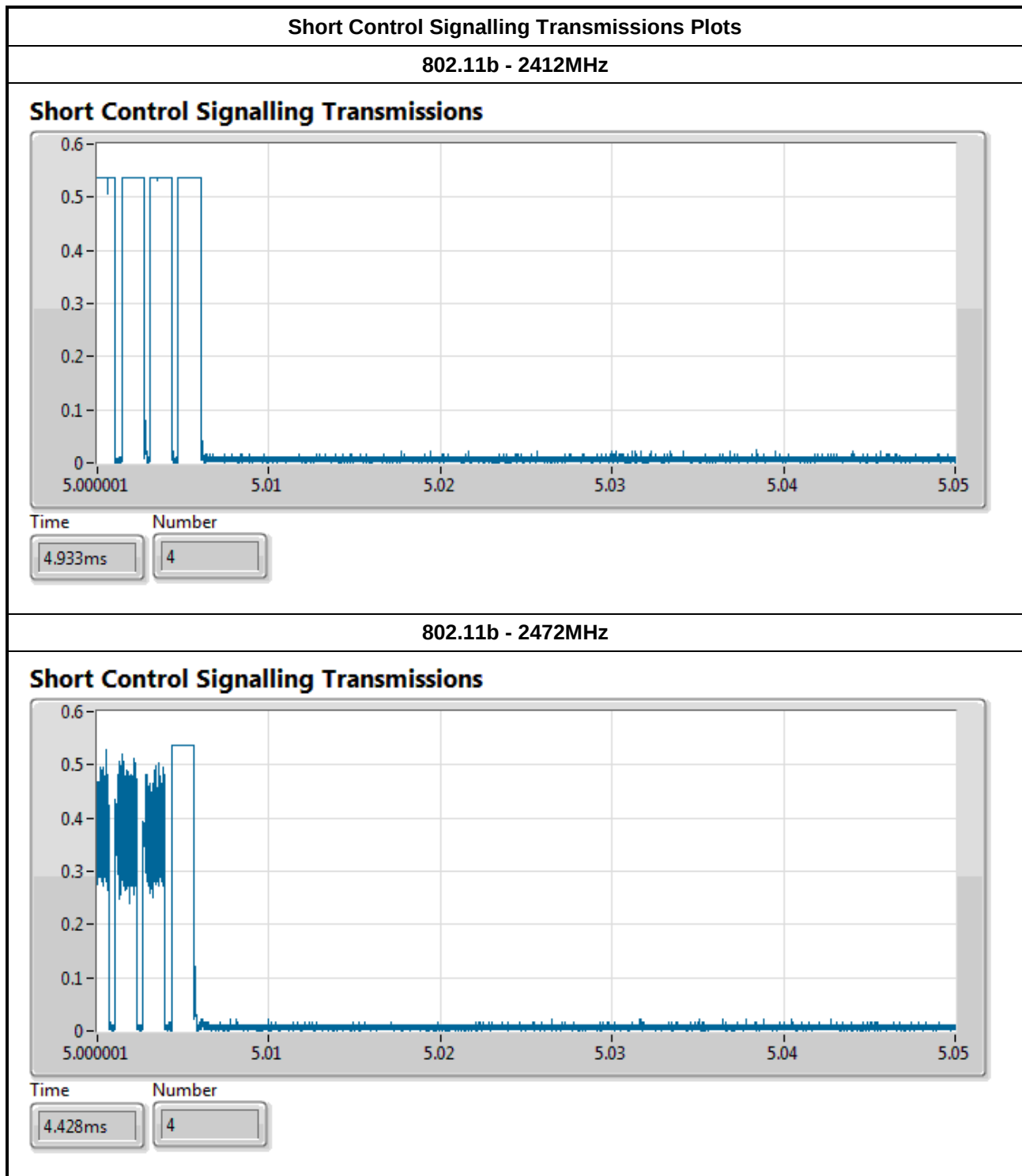
Unwanted signal: 2395 MHz

802.11n (HT40) - 2462MHz

Time Analysis



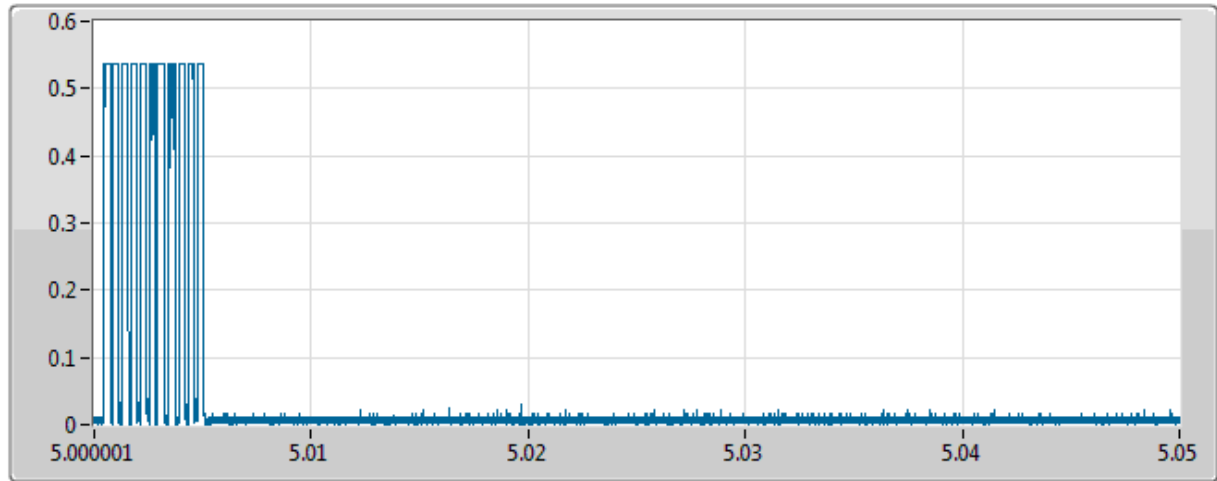
5.1.6 Test Result of Short Control Signalling Transmissions Plots



Short Control Signalling Transmissions Plots

802.11g - 2412MHz

Short Control Signalling Transmissions



Time

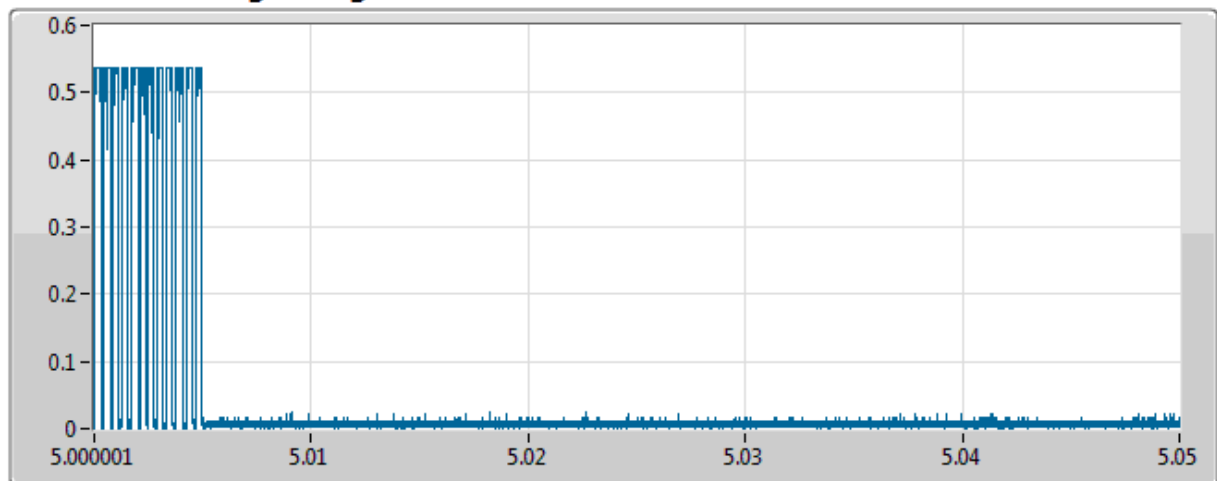
Number

3.1ms

11

802.11g - 2472MHz

Short Control Signalling Transmissions



Time

Number

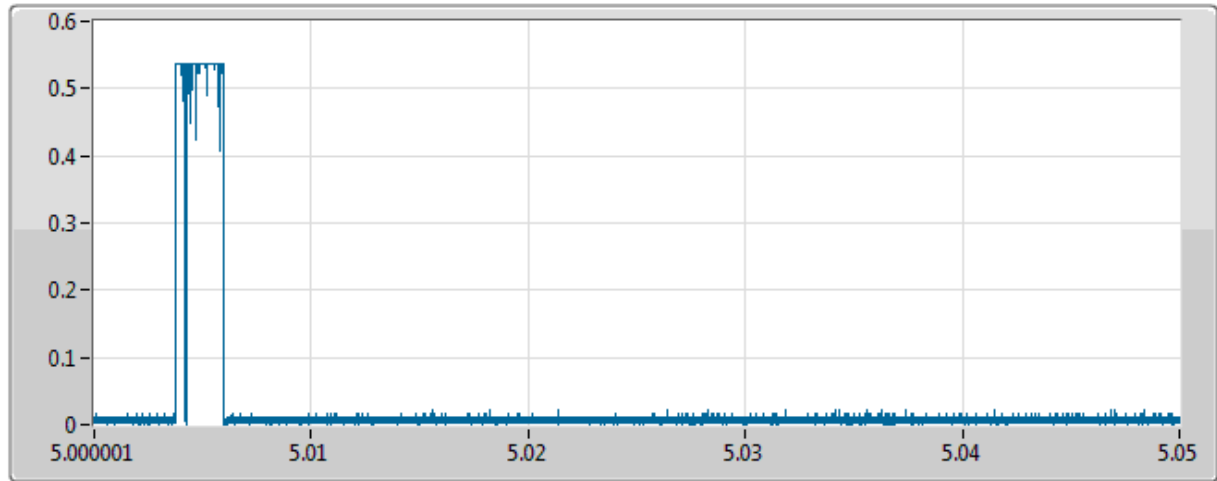
3.38ms

12

Short Control Signalling Transmissions Plots

802.11n (HT20) - 2412MHz

Short Control Signalling Transmissions



Time

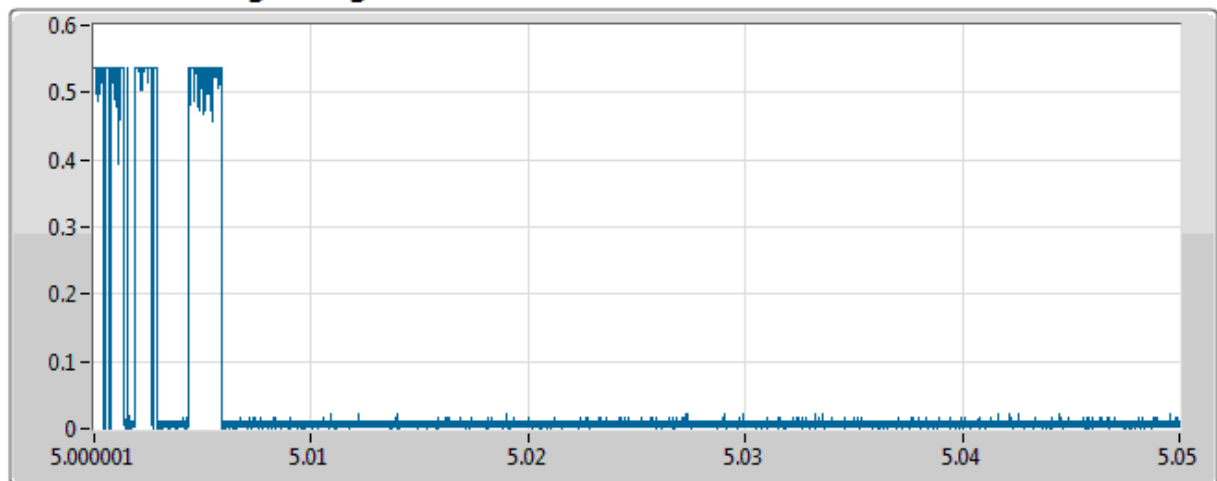
Number

2.08ms

2

802.11n (HT20) - 2472MHz

Short Control Signalling Transmissions



Time

Number

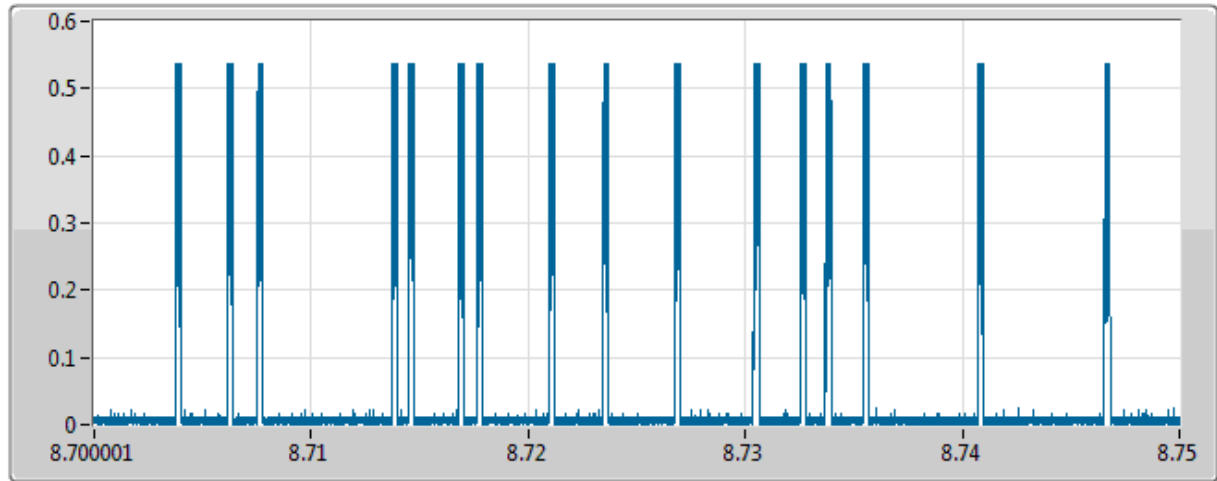
3.786ms

7

Short Control Signalling Transmissions Plots

802.11n (HT40) - 2422MHz

Short Control Signalling Transmissions



Time

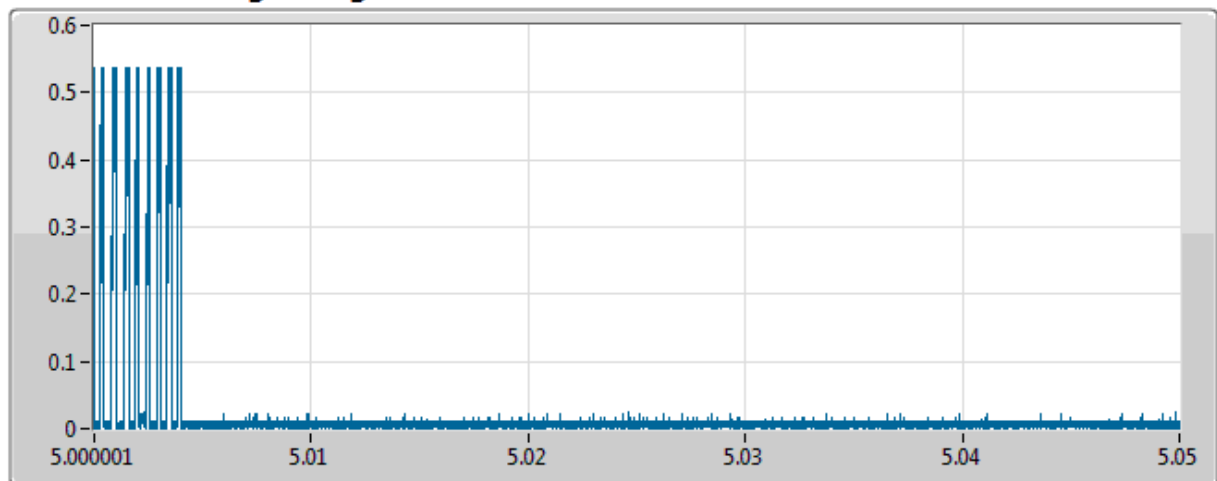
Number

3.541ms

26

802.11n (HT40) - 2462MHz

Short Control Signalling Transmissions



Time

Number

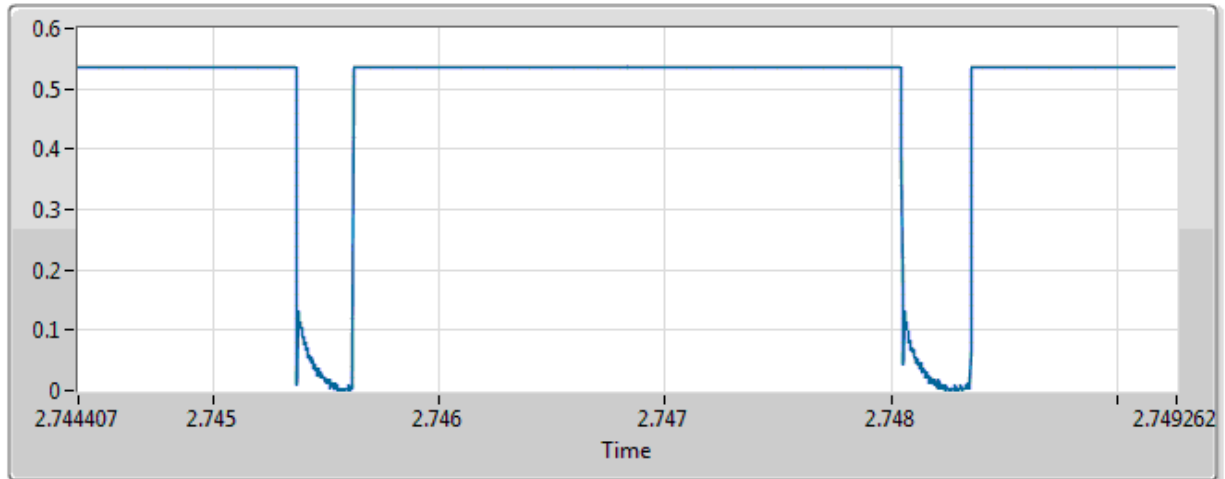
1.283ms

16

Channel Occupancy Time

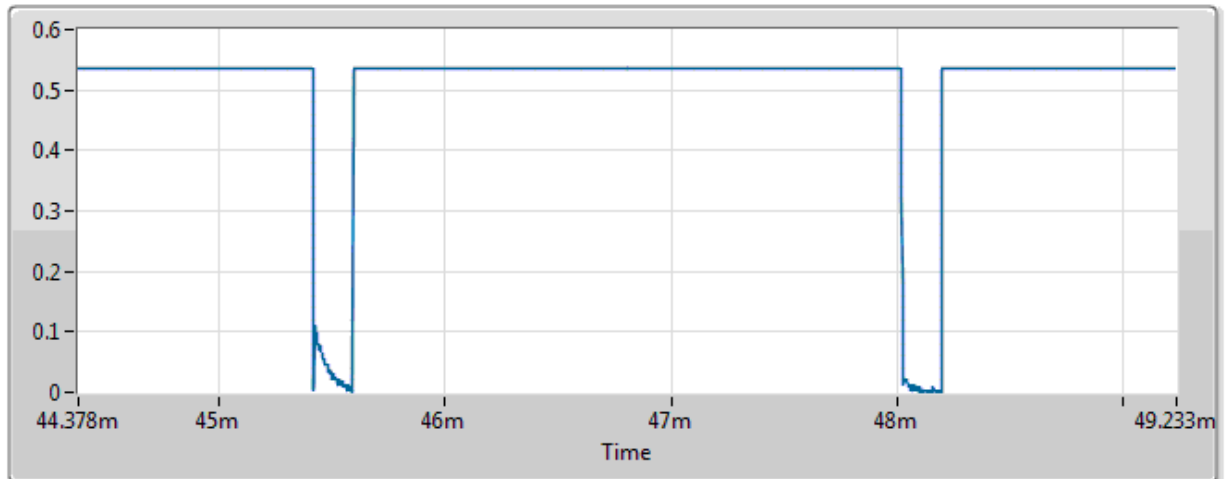
802.11b - 2412MHz

Max On Time



802.11b - 2472MHz

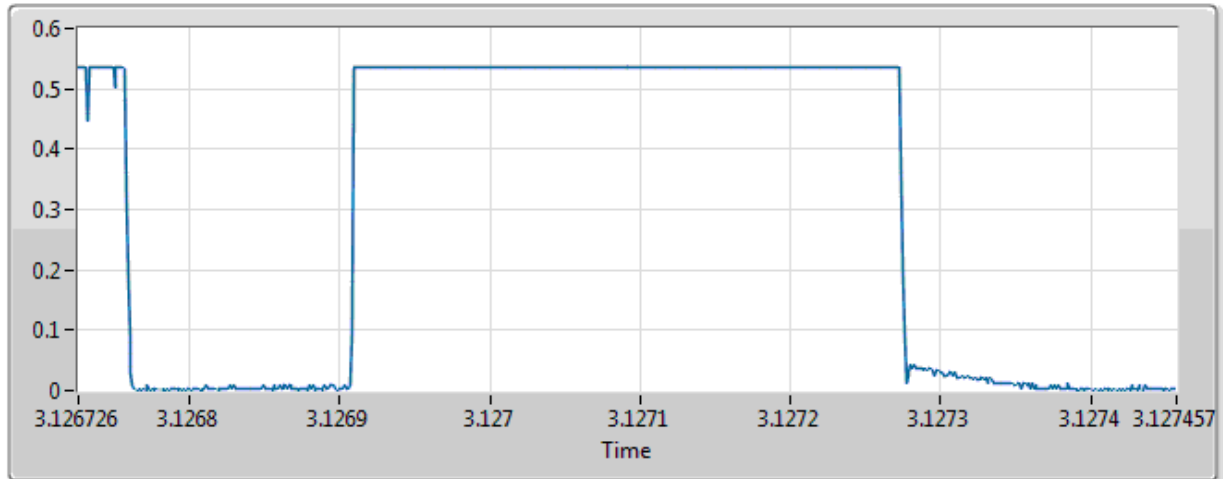
Max On Time



Channel Occupancy Time

802.11g - 2412MHz

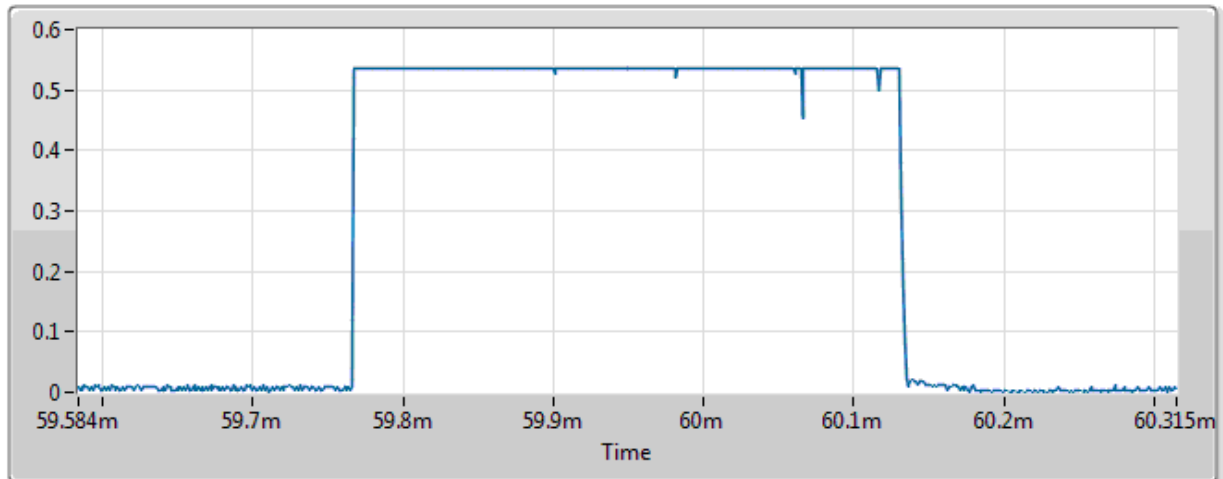
Max On Time



366us

802.11g - 2472MHz

Max On Time

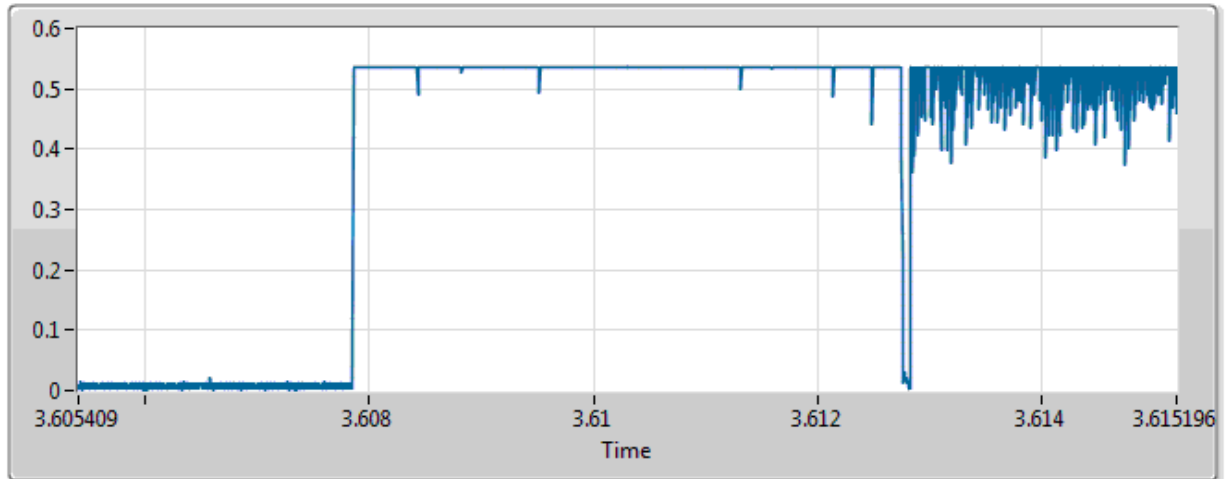


366us

Channel Occupancy Time

802.11n (HT20) - 2412MHz

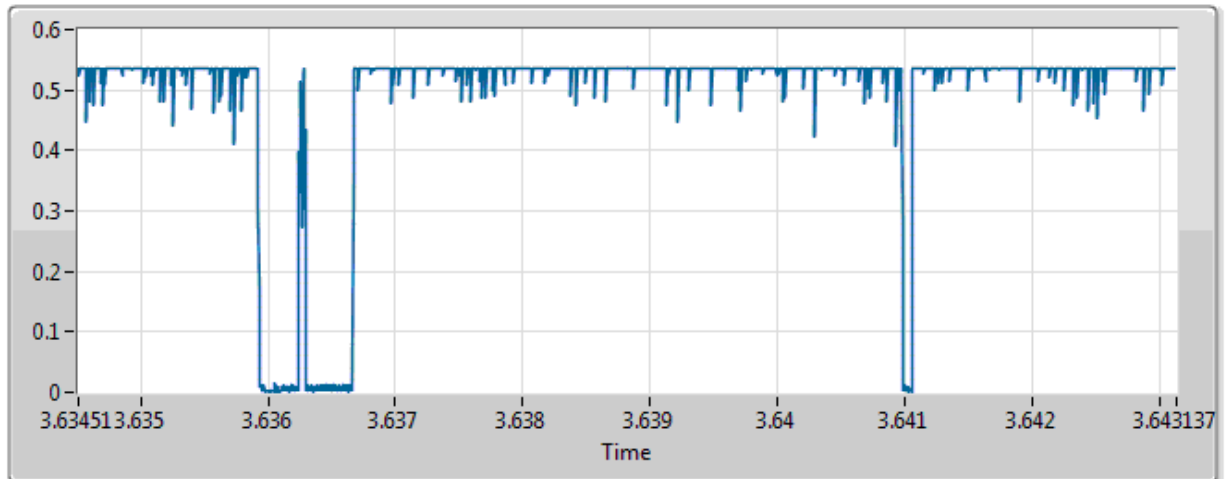
Max On Time



4.894ms

802.11n (HT20) - 2472MHz

Max On Time

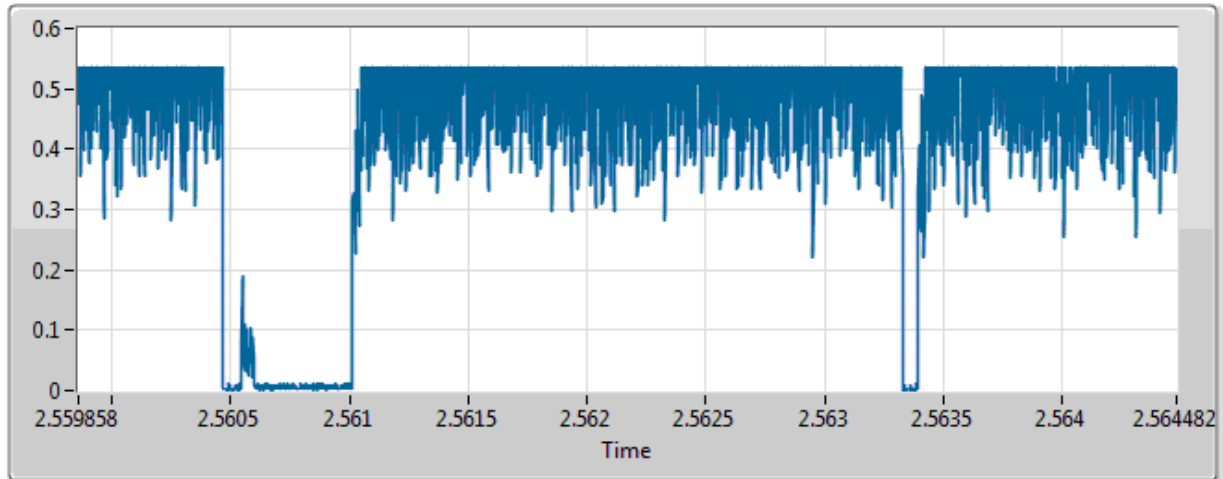


4.314ms

Channel Occupancy Time

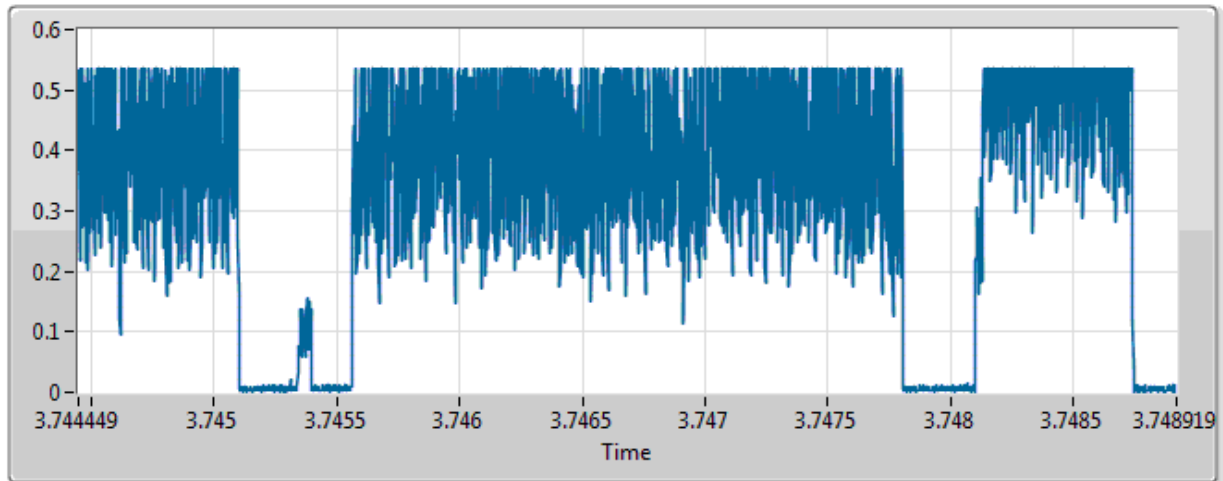
802.11n (HT40) - 2422MHz

Max On Time



802.11n (HT40) - 2462MHz

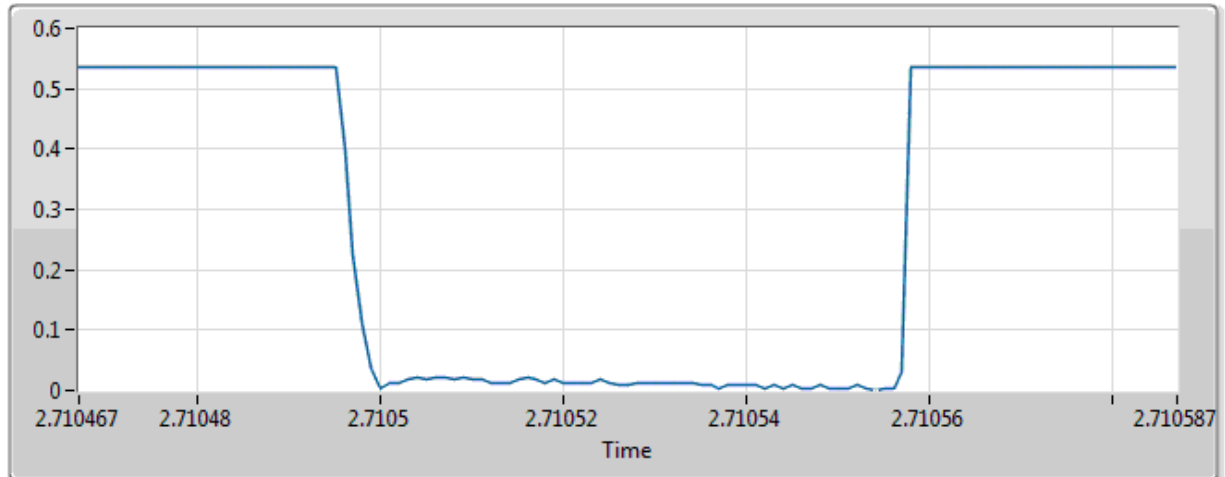
Max On Time



Idle Period Time

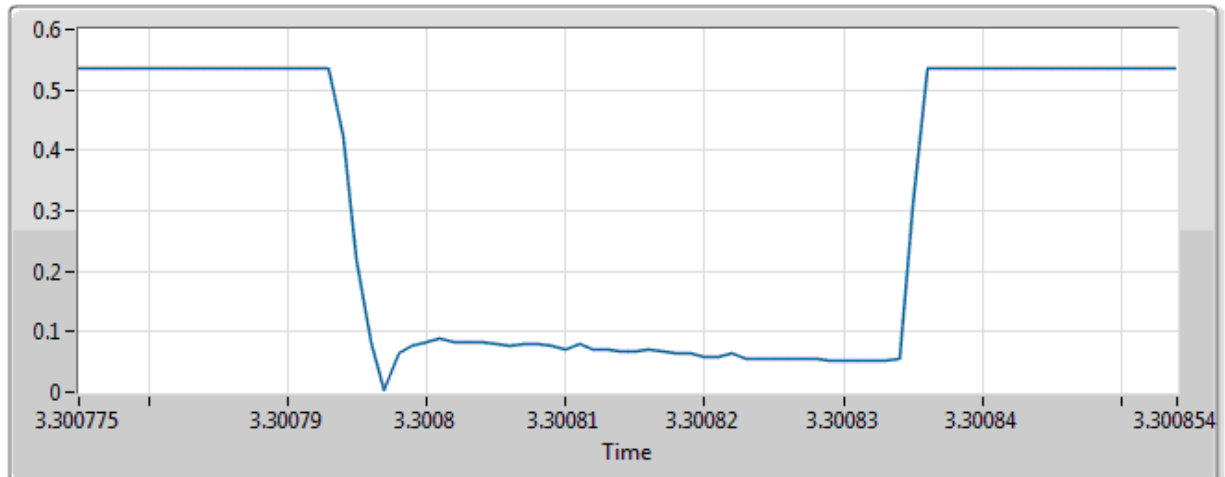
802.11b - 2412MHz

Min Off Time



802.11b - 2472MHz

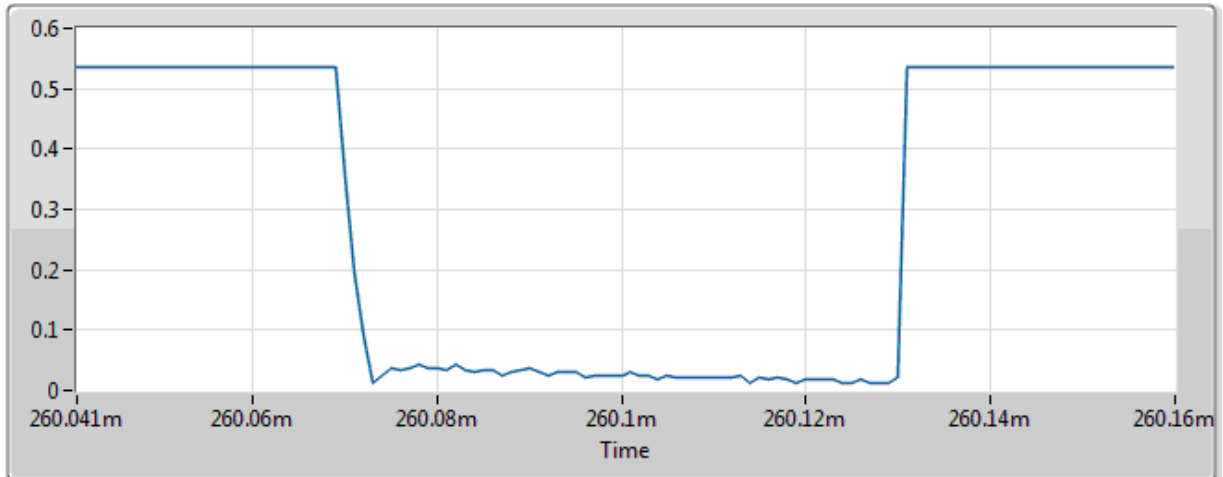
Min Off Time



Idle Period Time

802.11g - 2412MHz

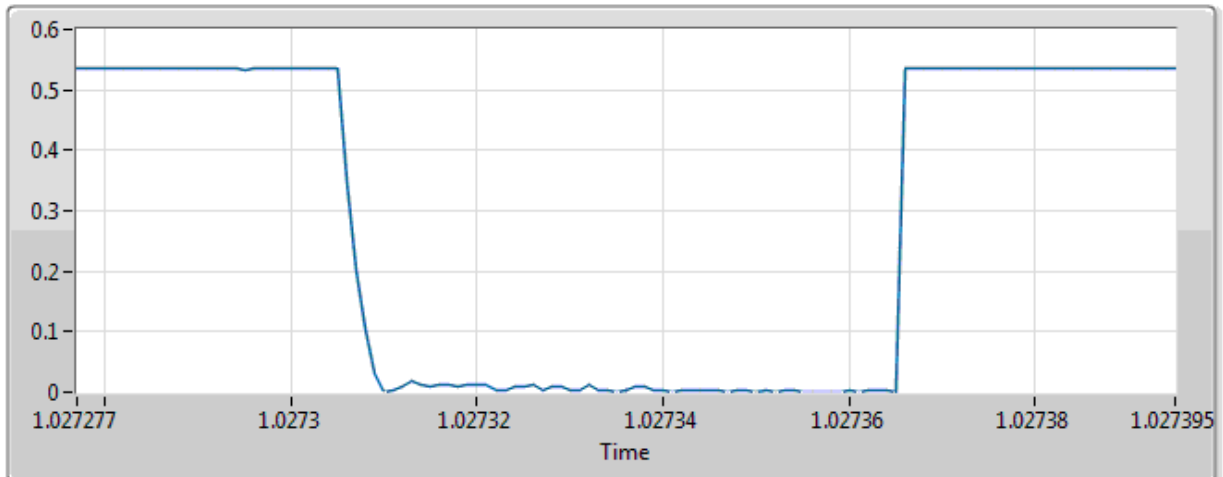
Min Off Time



60us

802.11g - 2472MHz

Min Off Time

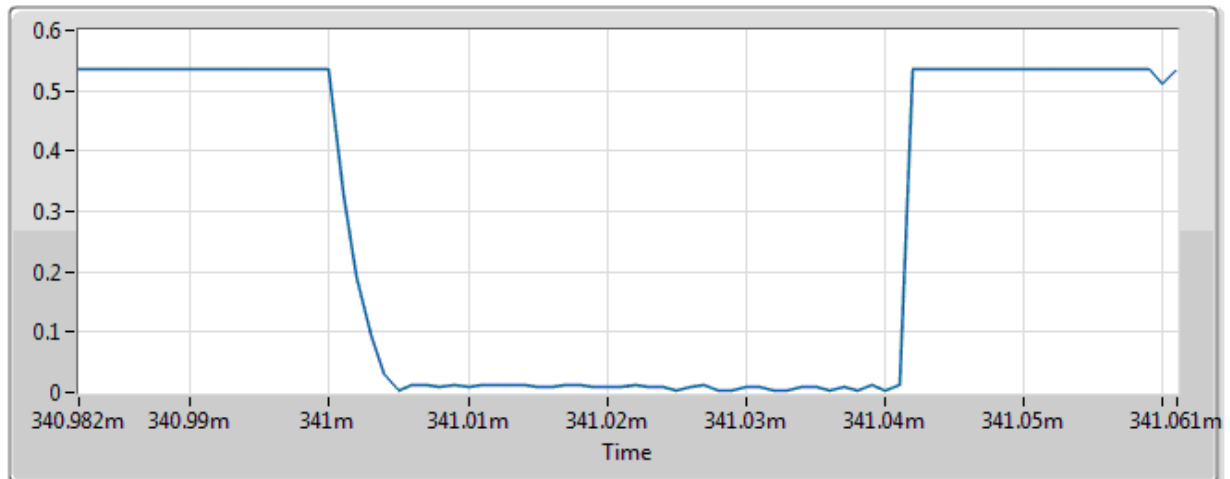


59us

Idle Period Time

802.11n (HT20) - 2412MHz

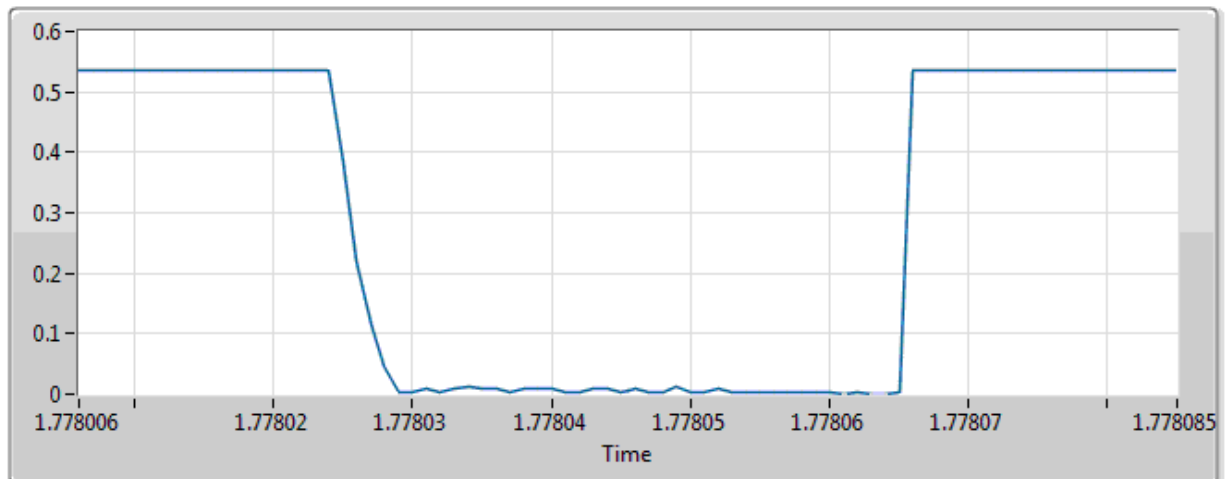
Min Off Time



40us

802.11n (HT20) - 2472MHz

Min Off Time

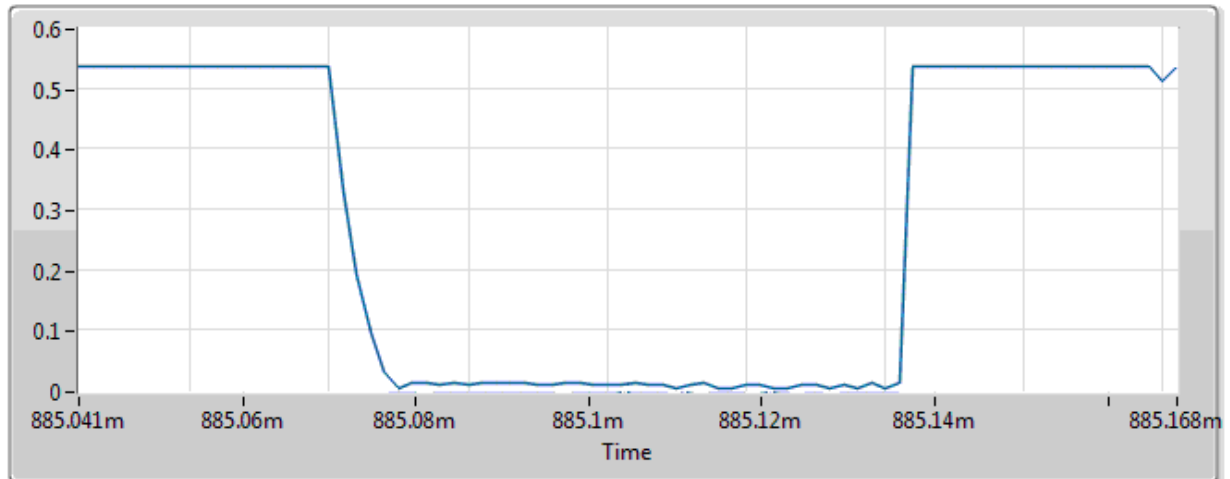


40us

Idle Period Time

802.11n (HT40) - 2422MHz

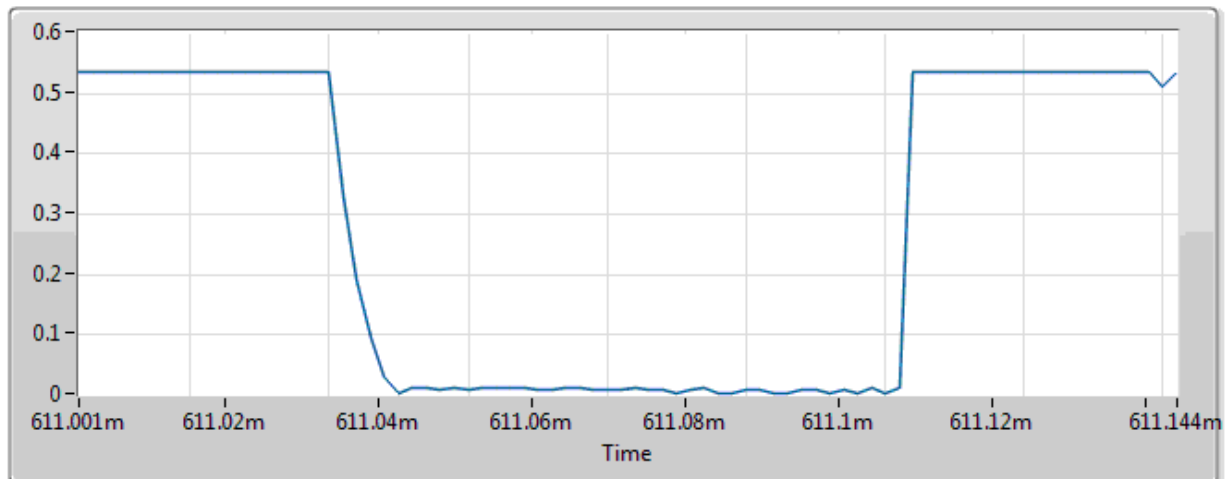
Min Off Time



64us

802.11n (HT40) - 2462MHz

Min Off Time



72us

6 Receiver Blocking Test Results

6.1 Receiver Blocking

6.1.1 Limit of Receiver Blocking

Receiver Blocking Parameters for Receiver Category 1 Equipment Limit			
Wanted Signal Mean Power from Companion Device (dBm) (see notes 1 and 4)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm) (see note 4)	Type of Blocking Signal
(-133 dBm + 10 × log10(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × log10(OCBW)) or -74 dBm whichever is less (see note 3)	2 300 2 330 2 360 2 524 2 584 2 674		
Note 1: OCBW is in Hz. Note 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. Note 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. Note 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned.			

Receiver Blocking Parameters for Receiver Category 2 Equipment Limit

Wanted Signal Mean Power from Companion Device (dBm) (see notes 1 and 3)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm) (see note 3)	Type of Blocking Signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 10 \text{ dB})$ or $(-74 \text{ dBm} + 10 \text{ dB})$ whichever is less (see note 2)	2 380 2 504 2 300 2 584	-34	CW

Note 1: OCBW is in Hz.

Note 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to $P_{\min} + 26 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

Note 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned.

Receiver Blocking Parameters for Receiver Category 3 Equipment Limit

Wanted Signal Mean Power from Companion Device (dBm) (see notes 1 and 3)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm) (see note 3)	Type of Blocking Signal
$(-139 \text{ dBm} + 10 \times \log_{10}(\text{OCBW}) + 20 \text{ dB})$ or $(-74 \text{ dBm} + 20 \text{ dB})$ whichever is less	2 380 2 504 2 300 2 584	-34	CW

Note 1: OCBW is in Hz.

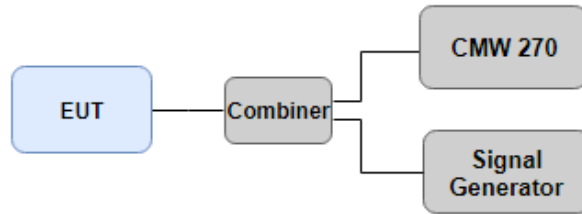
Note 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative the test may be performed using a wanted signal up to $P_{\min} + 30 \text{ dB}$ where $P_{\min}$ is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

Note 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned.

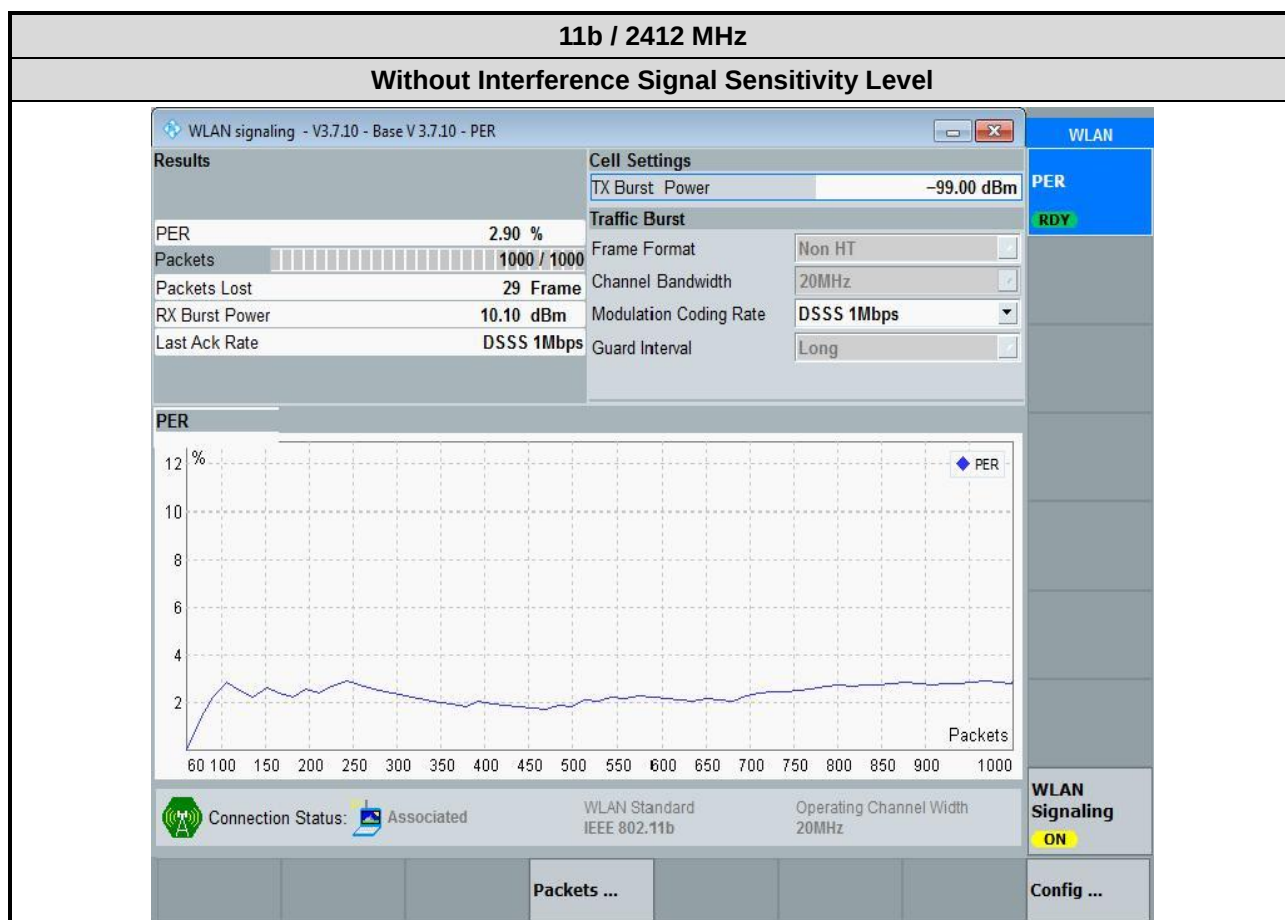
6.1.2 Test Procedures

Reference to clause 5.4.11.2 of ETSI EN 300 328 V2.2.2 (2019-07).

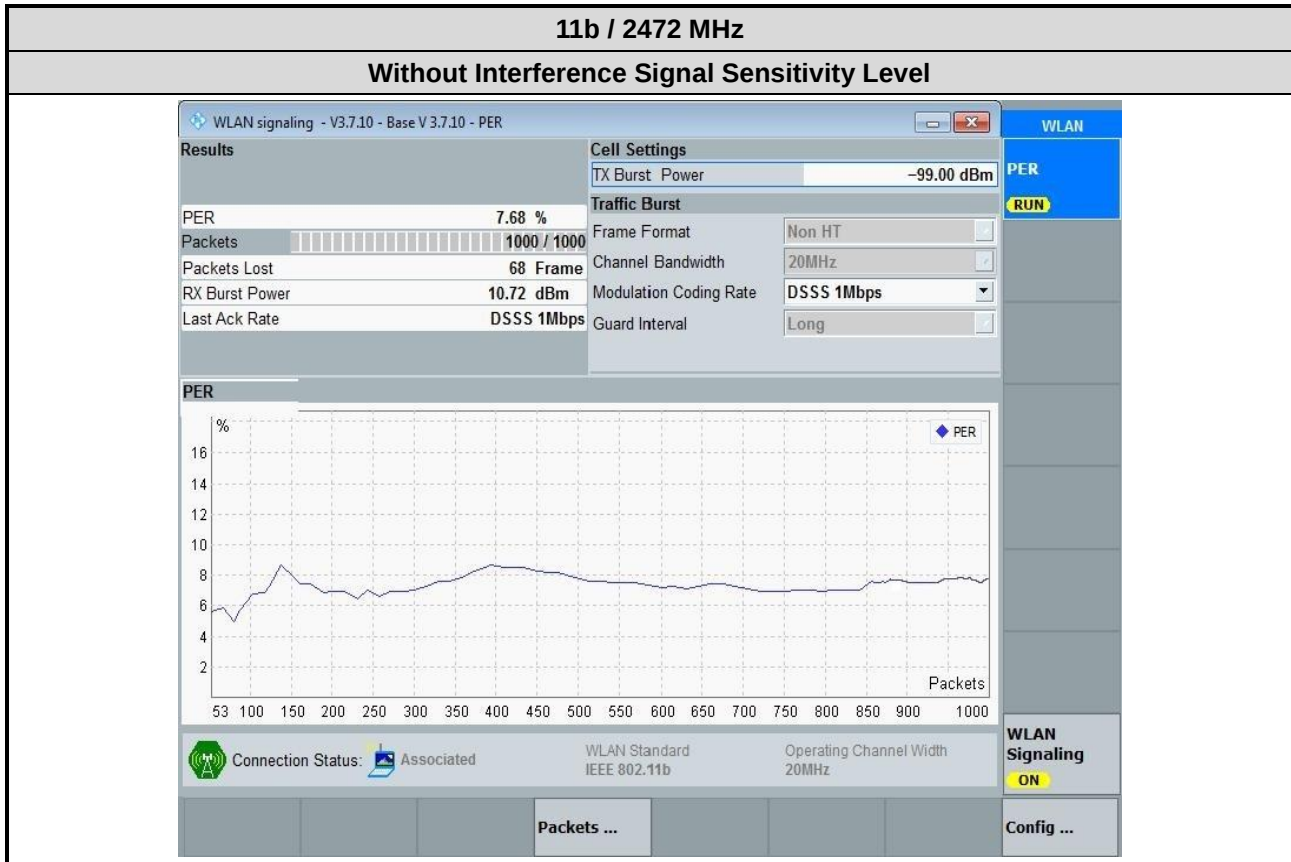
6.1.3 Test Setup



6.1.4 Test Result of Receiver Blocking



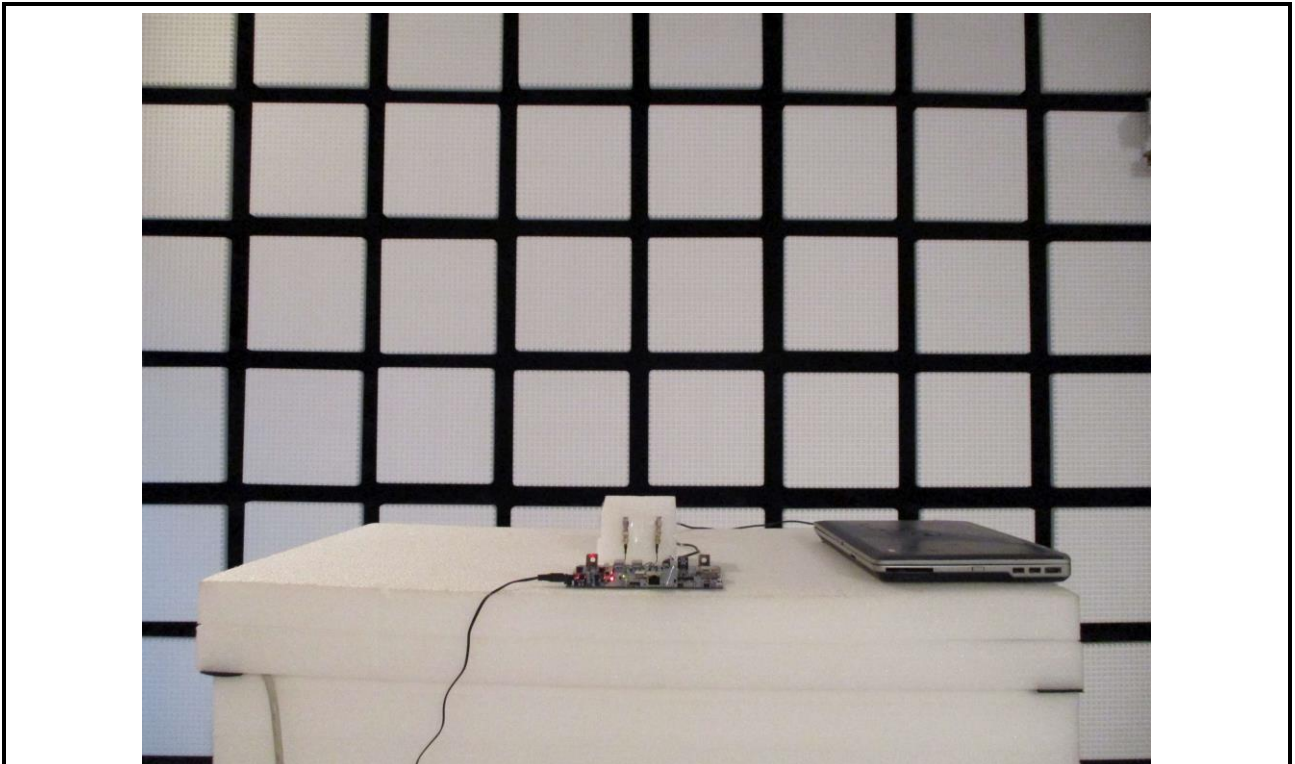
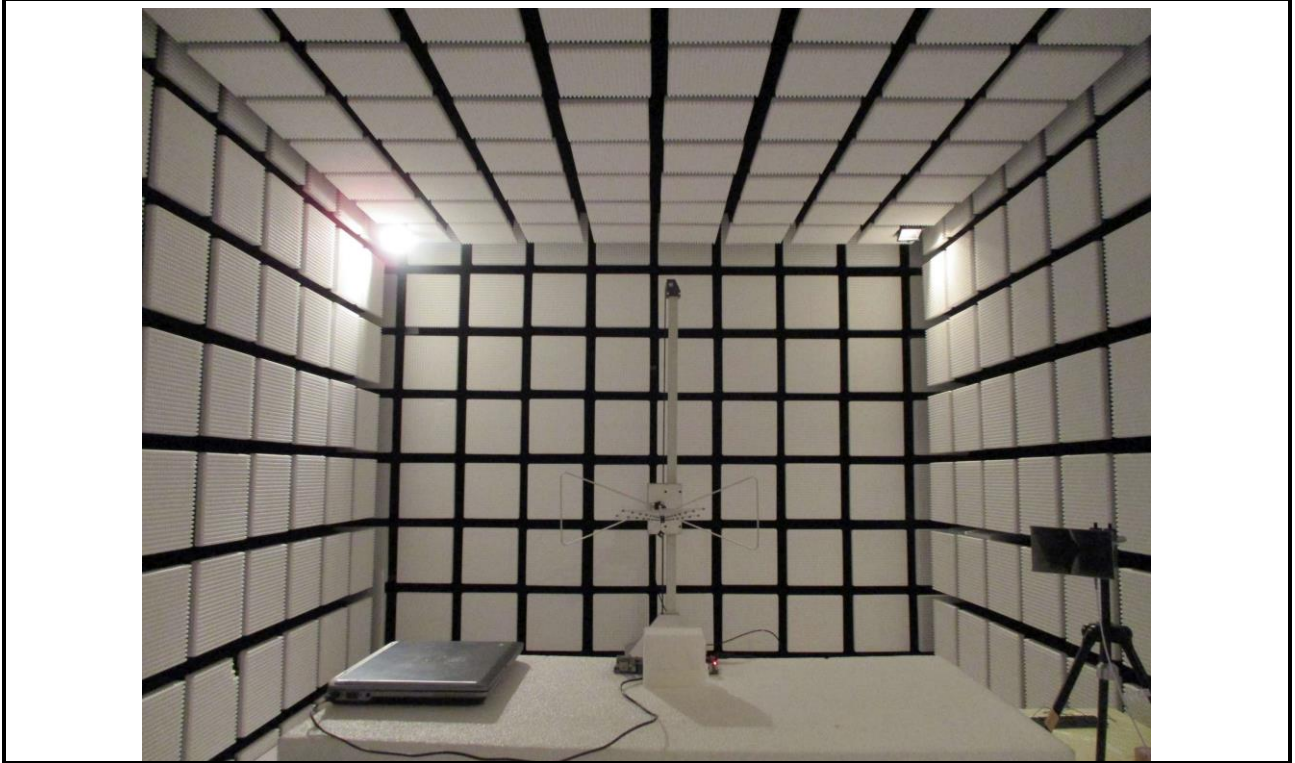
Receiver Category	1		
Performance Criteria Limit	PER ≤ 10 %		
Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)	Test Result
-65.21	2380	-31.21	Pass
-65.21	2504	-31.21	Pass
-71.21	2300	-31.21	Pass
-71.21	2330	-31.21	Pass
-71.21	2360	-31.21	Pass
-71.21	2524	-31.21	Pass
-71.21	2584	-31.21	Pass
-71.21	2674	-31.21	Pass



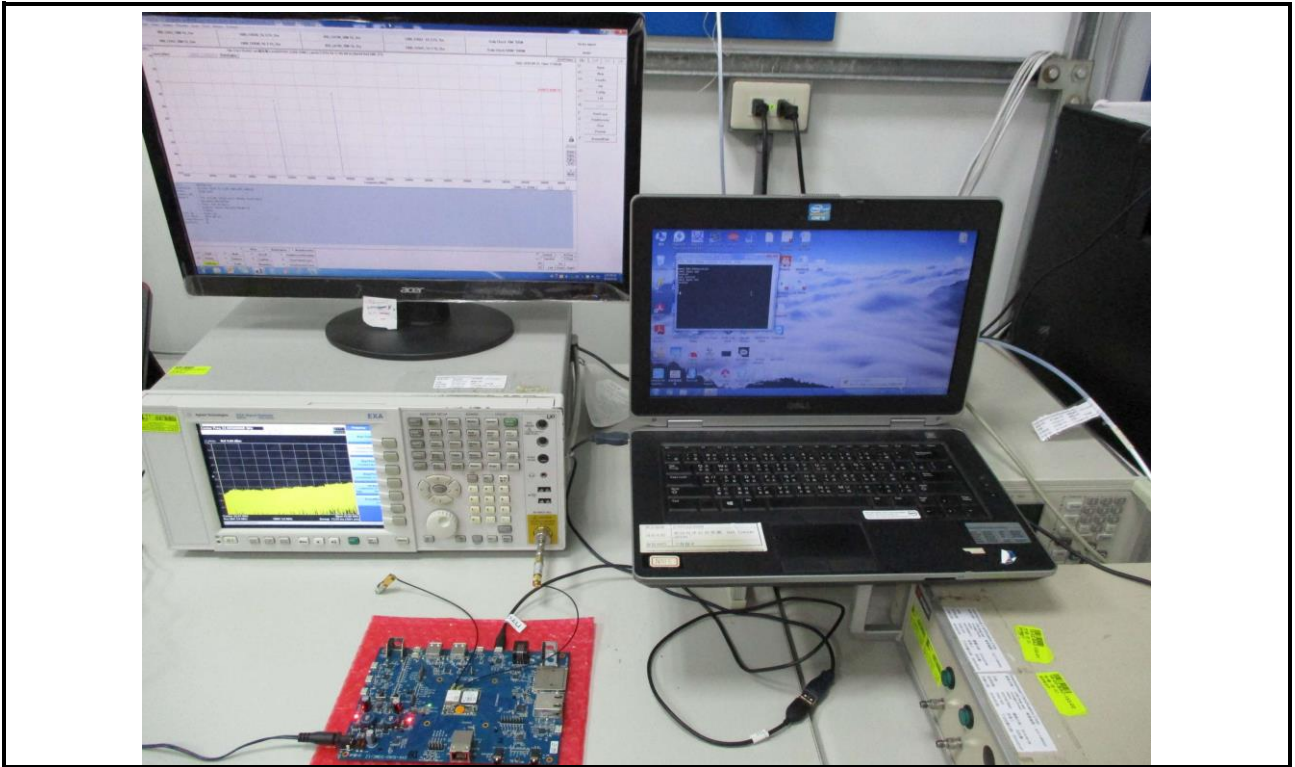
Receiver Category	1		
Performance Criteria Limit	PER ≤ 10 %		
Wanted Signal Mean Power from Companion Device (dBm)	Blocking Signal Frequency (MHz)	Blocking Signal Power (dBm)	Test Result
-65.21	2380	-31.21	Pass
-65.21	2504	-31.21	Pass
-71.21	2300	-31.21	Pass
-71.21	2330	-31.21	Pass
-71.21	2360	-31.21	Pass
-71.21	2524	-31.21	Pass
-71.21	2584	-31.21	Pass
-71.21	2674	-31.21	Pass

7 Photographs of the Test Configuration

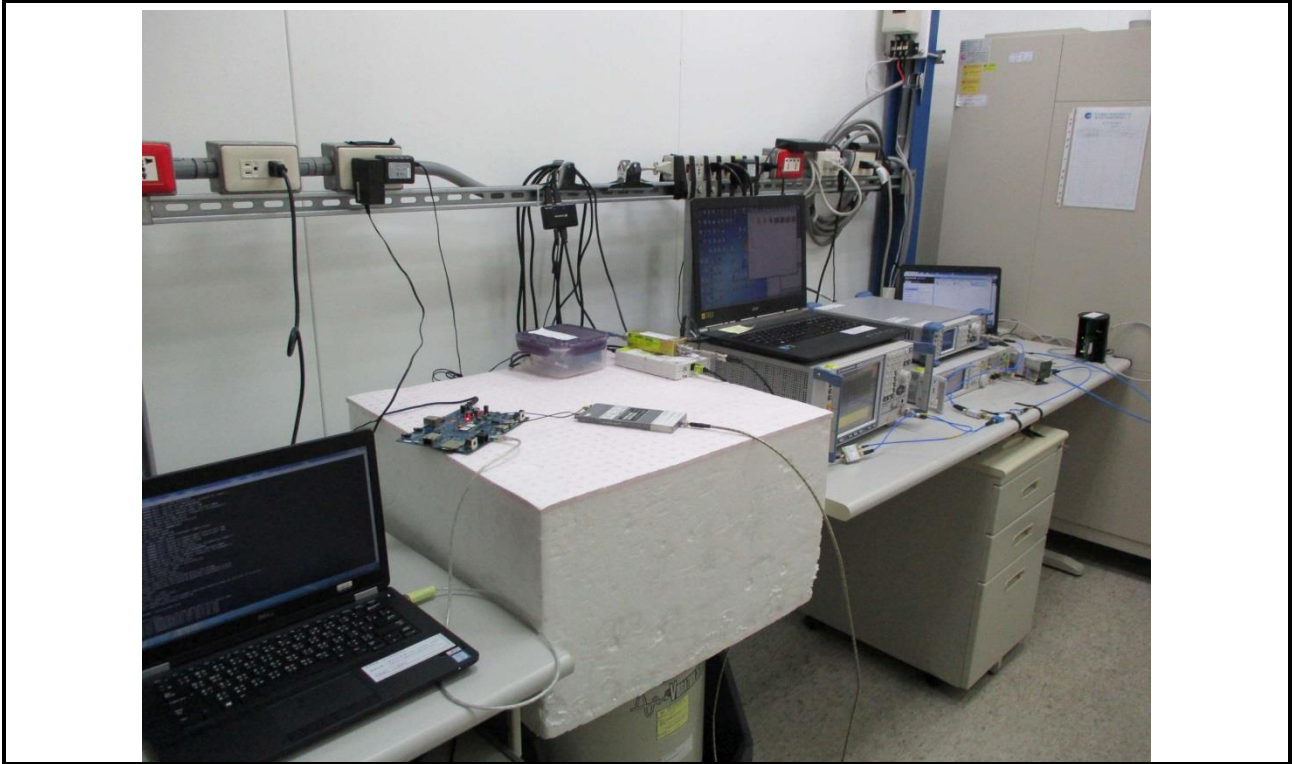
Radiated Spurious Emission Test



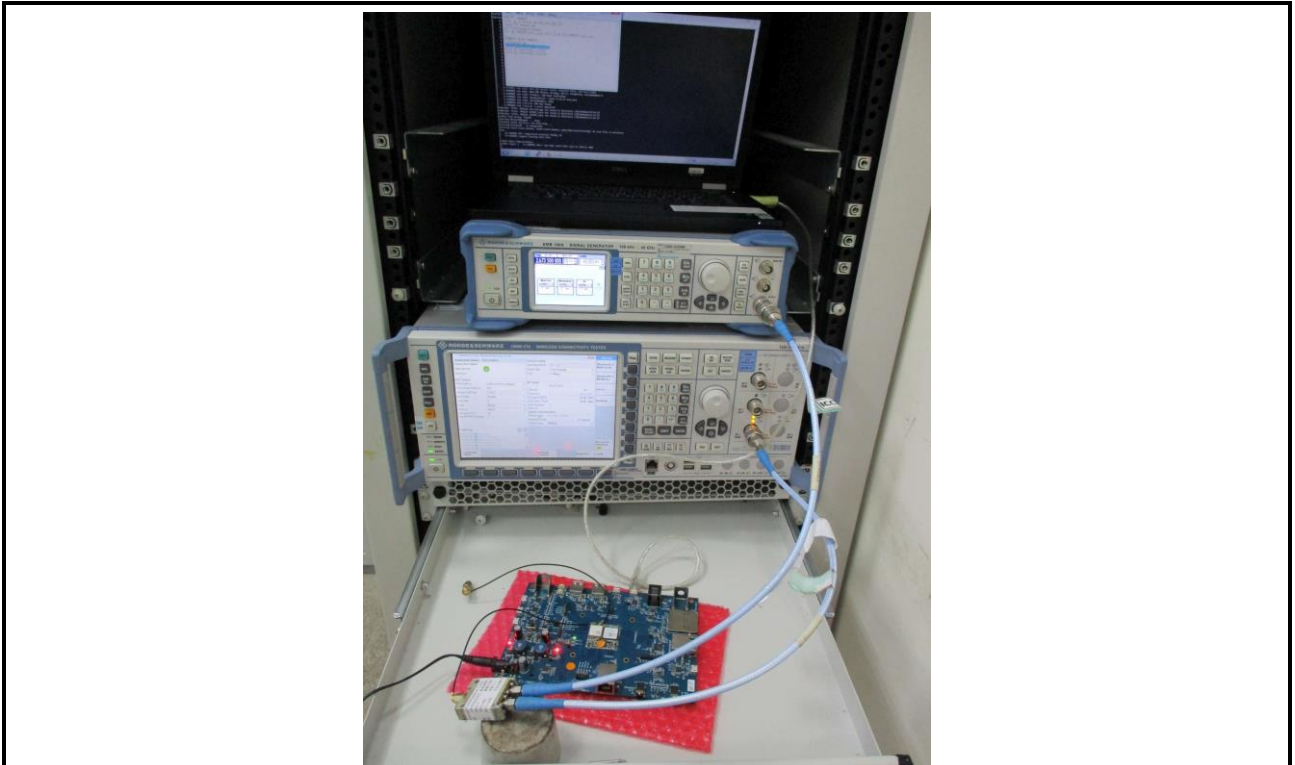
Conducted Spurious Emission Test



Adaptivity, Unwanted Signal and Short Control Signalling Transmissions Test



Receiver Blocking Test



8 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C..

If you have any suggestion, please feel free to contact us as below information

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