

TEST REPORT

CERTIFICATE OF CONFORMITY

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Report No.: RFBVSW-WTW-P22080967B-5

FCC ID: 2A3G3-WMX720X

Product: Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module

Brand: EmWicon Corporation

Model No.: WMX7205

Series Model: WMX7203, WMX7203-F

Received Date: 2026/5/17

Test Date: 2026/7/14

Issued Date: 2026/8/11

Applicant: EmWicon Corporation

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan

FCC Registration / 723255 / TW2022

Designation Number:

Approved by:  , **Date:** 2026/8/11
Wen Yu / Assistant Manager

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Prepared by : Claire Kuan / Specialist



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Release Control Record

Issue No.	Description	Date Issued
RFBVSW-WTW-P22080967B-5	Original release.	2026/8/11

1 Certificate

Product: Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module

Brand: EmWicon Corporation

Test Model: WMX7205

Series Model: WMX7203, WMX7203-F

Sample Status: Engineering sample

Applicant: EmWicon Corporation

Test Date: 2026/7/14

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

Measurement procedure: ANSI C63.10-2020
KDB 987594 D02 U-NII 6 GHz EMC Measurement v03
KDB 789033 D02 General UNII Test Procedure New Rules v02r01

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

2 Summary of Test Results

47 CFR FCC Part 15, Subpart E (Section 15.407)			
Clause	Test Item	Result	Remark
15.407(a)(8)(i)(ii)	Maximum RF Output Power	N/A	Refer to Note 1 below
15.407(a)(8)(i)(ii)	Maximum Power Spectral Density	N/A	Refer to Note 1 below
15.407(a)(11)	Emission Bandwidth	N/A	Refer to Note 1 below
---	Occupied Bandwidth	N/A	Refer to Note 1 below
15.407(b)(9)	AC Power Conducted Emissions	N/A	Refer to Note 1 below
15.407(b)(9)	Unwanted Emissions below 1 GHz	N/A	Refer to Note 1 below
15.407(b)(6) 15.407(b)(10)	Unwanted Emissions above 1 GHz	N/A	Refer to Note 1 below
15.407(b)(7)	In-Band Emission Mask	N/A	Refer to Note 1 below
15.407(d)(6)	Contention-based Protocol	Pass	Meet the requirement of limit.
15.407(a)(8)(i)	APC (Automatic Power Control) and Proper Power Adjustment	N/A	Refer to Note 1 below
15.203	Antenna Requirement	Pass	Antenna connector is ipex & RP-SMA not a standard connector.

Note:

1. Only Contention-based Protocol test item was performed for this addendum. The others testing data refer to original test report.
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Parameter	Uncertainty (±)
Contention-based Protocol	2.7 dB

The other instruments specified are routine verified to remain within the calibrated levels, no measurement uncertainty is required to be calculated.

2.2 Supplementary Information

There is not any deviation from the test standards for the test method, and no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wi-Fi 6E BT 5.2 M.2 2230 Module, Wi-Fi 6E BT 5.2 Mini PCIe Module
Brand	EmWicon Corporation
Test Model	WMX7205
Series Model	WMX7203, WMX7203-F
Status of EUT	Engineering sample
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	64QAM, 16QAM, QPSK, BPSK for OFDM 4096QAM for OFDMA in 11ax HE mode
Modulation Technology	OFDM, OFDMA
Transfer Rate	802.11a: up to 54Mbps 802.11ax: up to 2969.7Mbps
Operating Frequency	Under control by Standard Power AP: 5.935 ~ 6.415GHz, 6.535 ~ 6.855GHz Under control by Low-power Indoor AP: 5.935 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.535 ~ 6.855GHz, 6.875 ~ 7.115GHz
Number of Channel	802.11a/ax (HE20): 60 802.11ax (HE40): 29 802.11ax (HE80): 14 802.11ax (HE160): 7
Output Power	Under control of a Standard Power AP: 5.935 ~ 6.415GHz : 152.069 mW (EIRP: 29.97 dBm / 993.116 mW) 6.535 ~ 6.855GHz : 151.395 mW (EIRP: 29.97 dBm / 993.116 mW) Under control of a Low-power Indoor AP: 5.935 ~ 6.415GHz : 23.162 mW (EIRP: 21.80 dBm / 151.356 mW) 6.435 ~ 6.525GHz : 23.607 mW (EIRP: 21.83 dBm / 152.405 mW) 6.535 ~ 6.855GHz : 23.692 mW (EIRP: 21.92 dBm / 155.597 mW) 6.865 ~ 7.115GHz : 22.235 mW (EIRP: 21.60 dBm / 144.544 mW)
Equipment Class	6CD: 15E 6 GHz Dual client

Note:

1. This is a supplementary report of Report No.: RFBVSW-WTW-P22080967-5. The differences between them are as below information:
 - ◆ Adding antenna 5 for Model: WMX7205 (refer to section 3.2).
2. New Antenna 5 has lower gain than original antenna and same type as Antenna 1 and 2. Only Contention-based Protocol needs to be performed. And all data are verified to meet the requirements.
3. The EUT has below model names which are identical to each other in all aspects except for the following table:

Model Name	Product Name	PCB size	Interface	IPEX	Difference
WMX7205	Wi-Fi 6E BT 5.2 M.2 2230 Module	Original size	M.2 E-Key	i-pex (MHF 4L)	-
			M.2 AE-Key		
WMX7203	Wi-Fi 6E BT 5.2	Bigger than original	mini PCIe	i-pex (MHF 1)	Market segment
WMX7203-F	Mini PCIe Module	Bigger than original	mini PCIe		

Note: From the above models, model: WMX7205 was selected as representative model for the test and its data was recorded in this report.

4. This device of WLAN (2.4GHz & 5GHz U-NII-1 Band) can support hotspot mode.

5. Simultaneously transmission condition.

Condition	Technology	
1	WLAN(2.4GHz)	WLAN(6GHz)
2	WLAN(2.4GHz)	WLAN(5GHz)
3	WLAN(2.4GHz)	WLAN(5.9GHz)
4	WLAN(6GHz)	Bluetooth
5	WLAN(5GHz)	Bluetooth
6	WLAN(5.9GHz)	Bluetooth

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

6. The device of WLAN (2.4GHz) and Bluetooth technology can't transmit simultaneously, it was used timely shared coexistence technology.

7. The module (Model: WMX7205) has two variant designs as following table:

SKU No.	Description
SKU #1	M.2 2230 E-key
SKU #2	M.2 2230 AE-key

In the original report, from the above variants designs, the worst case was found in **SKU #1**. Therefore only the test data of the mode was recorded in this report.

8. The product provides option to depopulate external LNA (Low-Noise amplifier) from 5GHz/6GHz receive path. This test report covers variation of with/without external LNA and test was conducted to confirm not change in RF compliance and EMC. And worst case was found in without external LNA.

9. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Antenna Description of EUT

1. The antenna information is listed as below.

Original									
Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length
1	Chain0/1	HONGBO	260-25094	3.53	2.4~2.4835 GHz	0.76	PIFA	ipex(MHF 4L) ipex(MHF 1)	300mm
				3.06	5.15~5.25 GHz	1.16			
				3.07	5.25~5.35 GHz	1.18			
				4.81	5.47~5.725 GHz	1.2			
				4.2	5.725~5.850 GHz	1.27			
2	Chain0/1	HONGBO	260-25083	5.09	5.850~5.895 GHz	1.29	PIFA	ipex(MHF 4L) ipex(MHF 1)	300mm
				5.14	5.925~6.425 GHz	1.32			
				5.09	6.425~6.525 GHz	1.35			
				5.16	6.525~6.875 GHz	1.4			
				5.12	6.875~7.125 GHz	1.45			
3	Chain0/1	HONGBO	260-25084	3.22	2.4~2.4835 GHz	0.5	Monopole	ipex(MHF 4L) ipex(MHF 1)	200mm
				3.35	5.150~5.250 GHz	0.76			
				3.42	5.250~5.350 GHz	0.78			
				4.77	5.470~5.725 GHz	0.81			
				4.72	5.725~5.850 GHz	0.85			
				4.71	5.850~5.895 GHz	0.86			
				4.75	5.925~6.425 GHz	0.87			
				4.29	6.425~6.525 GHz	0.91			
				4.81	6.525~6.875 GHz	0.96			
4.74	6.875~7.125 GHz	0.98							
4	Chain0/1	emwicon	ATD7351	2.51	2400 MHz	0.64	Monopole	RP-SMA	0.15m
				2.66	2450 MHz	0.64			
				2.07	2500 MHz	0.64			
				3.21	5150 MHz	1.27			
				3.64	5500 MHz	1.27			
				3.73	5850 MHz	1.27			
				3.13	6125 MHz	1.24			
				3.54	6750 MHz	1.24			
3.06	7125 MHz	1.24							
Newly									
Antenna Set	RF Chain No.	Brand	Model	Antenna Net Gain (dBi)	Frequency Range	Cable Loss (dB)	Antenna Type	Connector Type	Cable Length (mm)
5	Chain0/1	TAITEK	WFA-EM-2508-0009-B	1.56	2.4~2.4835 GHz	-	PIFA	ipex (MHF-4L)	150
				1.20	5.150~5.250 GHz				
				1.05	5.250~5.350 GHz				
				2.83	5.470~5.725 GHz				
				2.04	5.725~5.850 GHz				
				1.50	5.850~5.895 GHz				
				2.95	5.925~6.425 GHz				
				1.88	6.425~6.525 GHz				
				1.88	6.525~6.875 GHz				
				2.87	6.875~7.125 GHz				

* Detail antenna specification please refer to antenna datasheet and/or antenna measurement report.

2. The EUT incorporates a MIMO function:

6GHz Band		
MODULATION MODE	TX & RX CONFIGURATION	
802.11a	2TX	2RX
802.11ax (HE20)	2TX	2RX
802.11ax (HE40)	2TX	2RX
802.11ax (HE80)	2TX	2RX
802.11ax (HE160)	2TX	2RX
802.11ax (RU26/52/106/242/484/996/1992)	2TX	2RX

Note: The EUT support Beamforming and non-beamforming mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.

3.3 Channel List

U-NII-5: Under control of a Low-power Indoor AP and Standard Power AP

25 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
2	5935 MHz	1	5955 MHz	5	5975 MHz	9	5955 MHz
13	6015 MHz	17	6035 MHz	21	6055 MHz	25	6075 MHz
29	6095 MHz	33	6115 MHz	37	6135 MHz	41	6155 MHz
45	6175 MHz	49	6195 MHz	53	6215 MHz	57	6235 MHz
61	6255 MHz	65	6275 MHz	69	6295 MHz	73	6315 MHz
77	6335 MHz	81	6355 MHz	85	6375 MHz	89	6395 MHz
93	6415MHz						

12 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	5965 MHz	11	6005 MHz	19	6045 MHz	27	6085 MHz
35	6125 MHz	43	6165 MHz	51	6205 MHz	59	6245 MHz
67	6285MHz	75	6325 MHz	83	6365 MHz	91	6405 MHz

6 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	5985 MHz	23	6065 MHz	39	6145 MHz	55	6225 MHz
71	6305 MHz	87	6385 MHz				

3 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency	Channel	Frequency
15	6025 MHz	47	6185 MHz	79	6345 MHz

U-NII-6: Under control of a Low-power Indoor AP

5 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
97	6435 MHz	101	6455 MHz	105	6475 MHz	109	6495 MHz
113	6515 MHz						

3 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
99	6445 MHz	107	6485 MHz	*115	6525 MHz

1 channel is provided for 802.11ax (HE80):

Channel	Frequency
103	6465 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
*111	6505 MHz

U-NII-7: Under control of a Low-power Indoor AP and Standard Power AP

17 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
117	6535 MHz	121	6555 MHz	125	6575 MHz	129	6595 MHz
133	6615 MHz	137	6635 MHz	141	6655 MHz	145	6675 MHz
149	6695 MHz	153	6715 MHz	157	6735 MHz	161	6755 MHz
165	6775 MHz	169	6795 MHz	173	6815 MHz	177	6835 MHz
181	6855 MHz						

8 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
123	6565 MHz	131	6605 MHz	139	6645 MHz	147	6685 MHz
155	6725 MHz	163	6765 MHz	171	6805 MHz	179	6845 MHz

5 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
*119	6545 MHz	135	6625 MHz	151	6705 MHz	167	6785 MHz
*183	6865 MHz						

2 channels are provided for 802.11ax (HE160):

Channel	Frequency	Channel	Frequency
143	6665 MHz	175	*6825 MHz

U-NII-8: Under control of a Low-power Indoor AP

13 channels are provided for 802.11a, 802.11ax (HE20):

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
185	6875 MHz	189	6895 MHz	193	6915 MHz	197	6935 MHz
201	6955 MHz	205	6975 MHz	209	6995 MHz	213	7015 MHz
217	7035 MHz	221	7055 MHz	225	7075 MHz	229	7095 MHz
233	7115 MHz						

6 channels are provided for 802.11ax (HE40):

Channel	Frequency	Channel	Frequency	Channel	Frequency
187	6885 MHz	195	6925 MHz	203	6965 MHz
211	7005 MHz	219	7045 MHz	227	7085 MHz

2 channels are provided for 802.11ax (HE80):

Channel	Frequency	Channel	Frequency
199	6945 MHz	215	7025 MHz

1 channel is provided for 802.11ax (HE160):

Channel	Frequency
207	6985 MHz

Note: * mean these are straddle channels.

3.4 Test Mode Applicability and Tested Channel Detail

Pre-Scan:	1.Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
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Following channel(s) was (were) selected for the final test as listed below:

Test Item	Mode	Tested Channel	Modulation	Data Rate Parameter
Contention-based Protocol	802.11ax (HE20)	33, 97, 129, 193	BPSK	MCS0
	802.11ax (HE160)	47, 111, 143, 207	BPSK	MCS0

Note: The customer confirms that Antenna 5 Connection only supports I-Pex 4, and Antenna 5 is only used on the WMX7205 module.

In the original report

Note: The WMX7205 Module is available in two Edge Connector configurations: M.2 2230 E-Key and M.2 2230 AE-Key. Following verification, the worst-case condition has been identified as M.2 2230 E-Key.

Note: The EUT supports ax full RU and ax prital RU modes, so these two modes were investigated and the worst case was determined to be ax full RU mode. Worst case data are provided in the test report.

4 Test Instruments

The calibration interval of the all test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1 Contention-based Protocol

Description Manufacturer	Model No.	Serial No.	Calibrated Date	Calibrated Until
Frequency Extender Keysight	N5182BX07	MY59360198	2025/10/3	2026/10/2
MXG Vector Signal Generator Keysight	N5182B	MY53052647	2025/10/3	2026/10/2
Power Splitter/Combiner Mini-Circuits	ZFRSC-123-S+	F698501347_01	2025/10/22	2026/10/21
		F698501347_02	2025/10/22	2026/10/21
Signal & Spectrum Analyzer R&S	FSV3044	101506	2026/6/22	2027/6/21
	FSW8	101497	2026/6/5	2027/6/4

Notes:

1. The test was performed in HC - Adaptivity room(Hsinchu).
2. Tested Date: 2026/7/14

5 Limits of Test Items

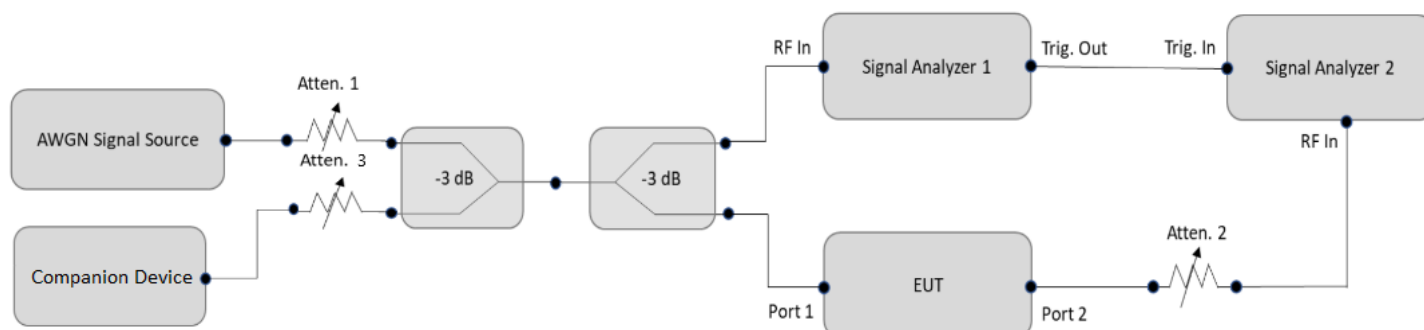
5.1 Contention-based Protocol

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

6 Test Arrangements

6.1 Contention-based Protocol

6.1.1 Test Setup



6.1.2 Test Procedure

- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Same as EUT transmission
$BW_{Inc} < BW_{EUT} \leq 2 \times BW_{Inc}$	Once	Contained within BW_{EUT}
$2 \times BW_{Inc} < BW_{EUT} \leq 4 \times BW_{Inc}$	Twice. (Incumbent transmission is contained within BW_{EUT})	Closely to the lower edge and upper edge of the EUT Channel
$BW_{EUT} > 4 \times BW_{Inc}$	Three times	Closely to the lower edge, in the middle and upper edge of the EUT Channel

- The power measurement of AWGN signal refers to method SA-1 in section 12.4.2.2 of ANSI C63.10-2020.
- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

7 Test Results of Test Item

7.1 Contention-based Protocol

Input Power:	3.3 Vdc	Environmental Conditions:	25°C, 60% RH	Tested By:	Gary Cheng
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Companion Device Information			
Product	Brand	Model No.	Software/Firmware Version
802.11be AP Router	MEDIATEK	MT7977	3.0.0.6.102_55168

For U-NII-5

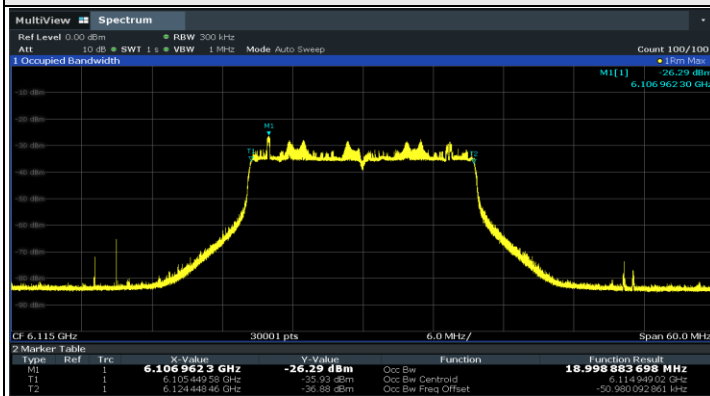
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	33	6115	6115	-73.01	1.88	0	-74.89	-62	OFF
					-73.51	1.88	0	-75.39	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
	160	47	6185	6110	-71.7	1.88	0	-73.58	-62	OFF
					-72.2	1.88	0	-74.08	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6185	-75.62	1.88	0	-77.5	-62	OFF
					-76.12	1.88	0	-78	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6260	-78.09	1.88	0	-79.97	-62	OFF
					-78.59	1.88	0	-80.47	-62	Minimal
					-80.12	1.88	0	-82	-62	ON

Notes:

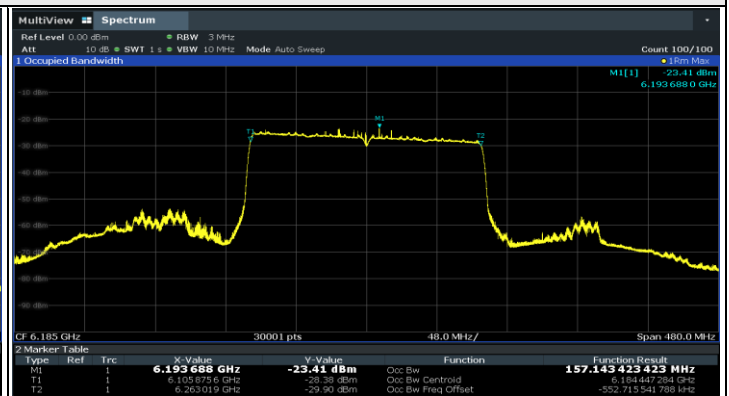
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6115	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6110	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6185	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6260	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

Plots of EUT Tx waveform

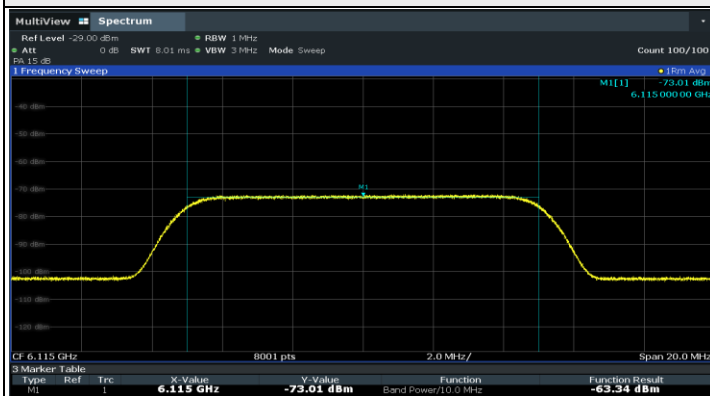


802.11ax (HE20) / CH33

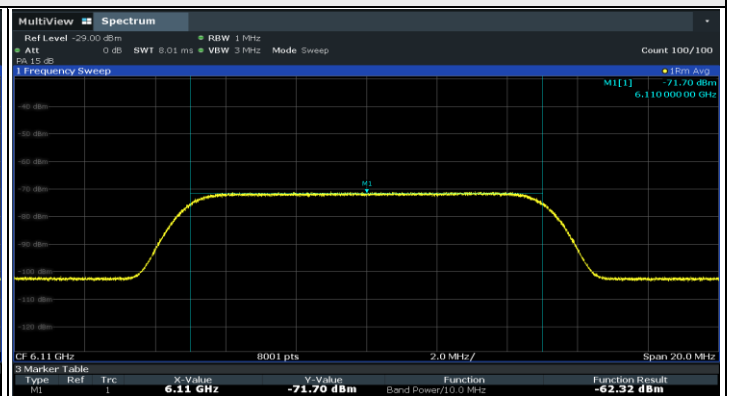


802.11ax (HE160) / CH47

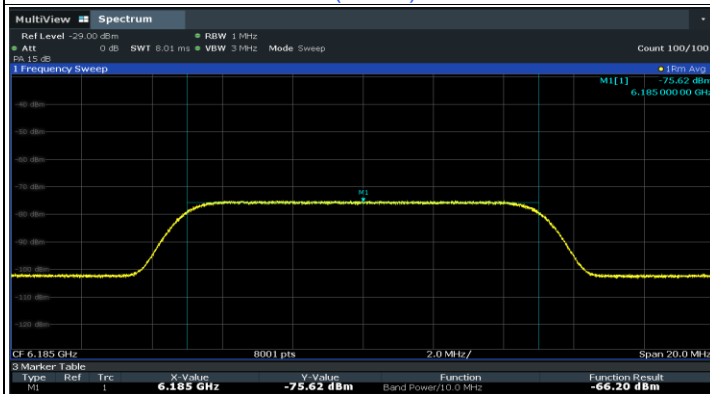
Plots of Injected signal (AWGN) level



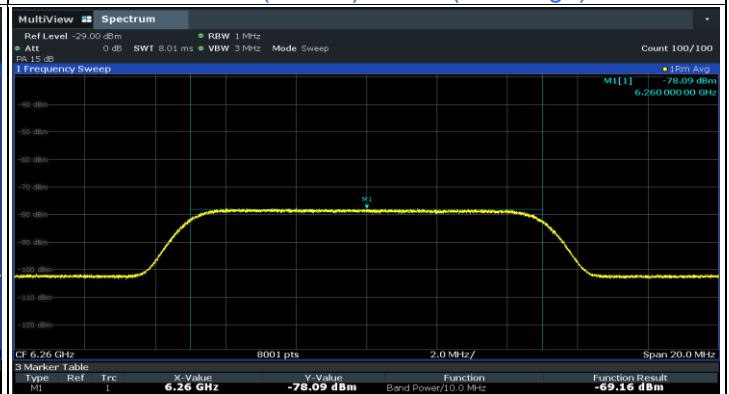
802.11ax (HE20) / CH33



802.11ax (HE160) / CH47 (Low Edge)



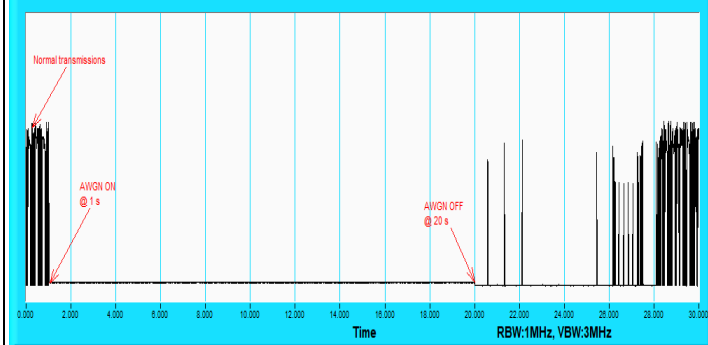
802.11ax (HE160) / CH47 (Middle)



802.11ax (HE160) / CH47 (High Edge)

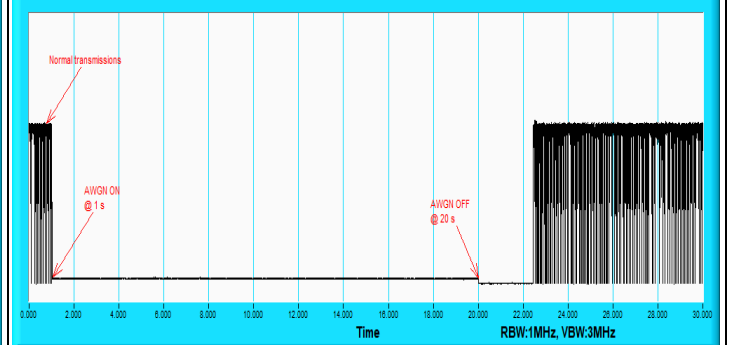
Plots of EUT ceased transmission in the time domain

UNII5_BW20_CH33_6115_TRS



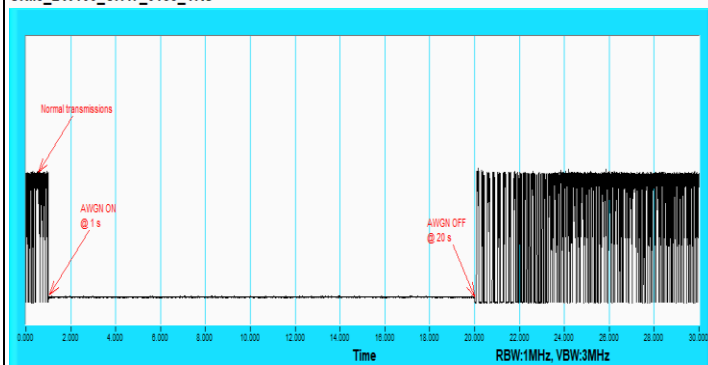
802.11ax (HE20) / CH33

UNII5_BW160_CH47_6110_TRS



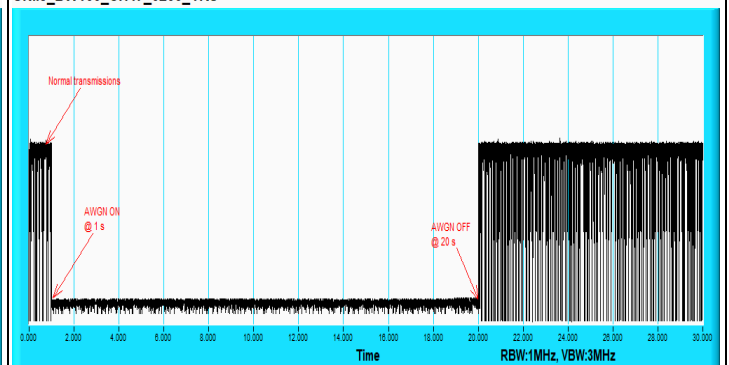
802.11ax (HE160) / CH47(Low Edge)

UNII5_BW160_CH47_6185_TRS



802.11ax (HE160) / CH47(Middle)

UNII5_BW160_CH47_6260_TRS



802.11ax (HE160) / CH47(High Edge)

For U-NII-6

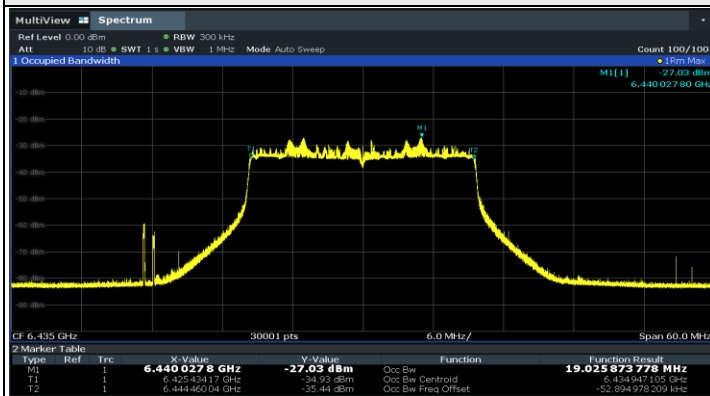
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	97	6435	6435	-71.71	1.88	0	-73.59	-62	OFF
					-72.21	1.88	0	-74.09	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
	160	111	6505	6430	-72.55	1.88	0	-74.43	-62	OFF
					-73.05	1.88	0	-74.93	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6505	-70.81	1.88	0	-72.69	-62	OFF
					-71.31	1.88	0	-73.19	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6580	-79.55	1.88	0	-81.43	-62	OFF
					-80.05	1.88	0	-81.93	-62	Minimal
					-80.12	1.88	0	-82	-62	ON

Notes:

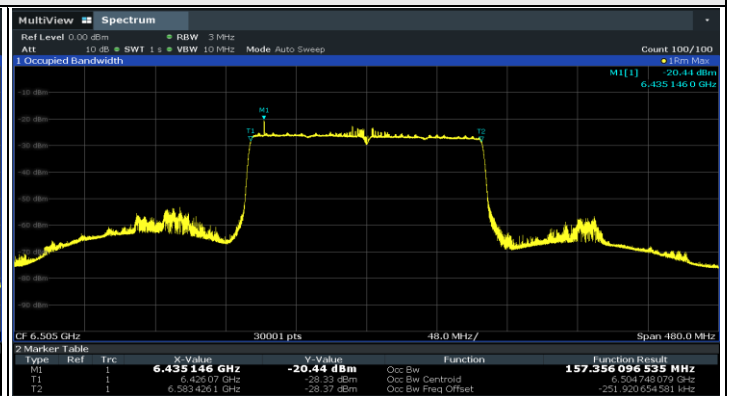
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6435	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6430	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6505	v	v	v	v	x	v	v	v	v	v	90%	90%	Pass
		6580	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

Plots of EUT Tx waveform



802.11ax (HE20) / CH97

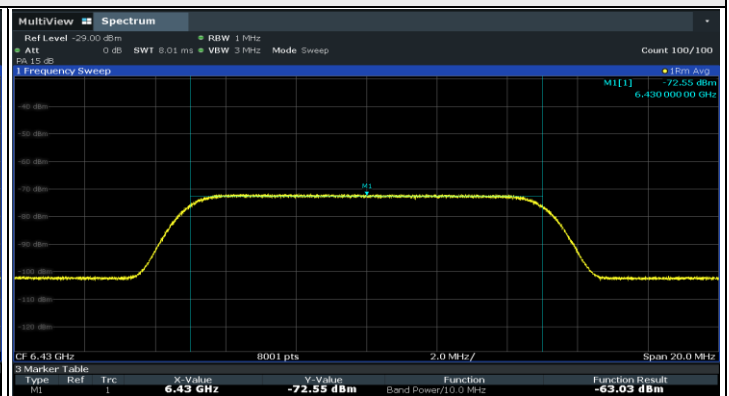


802.11ax (HE160) / CH111

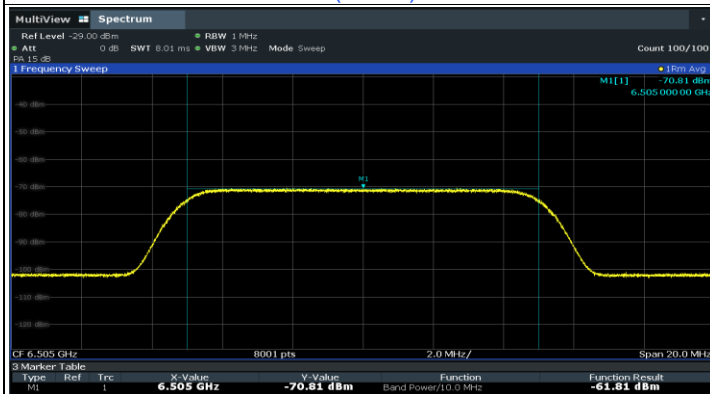
Plots of Injected signal (AWGN) level



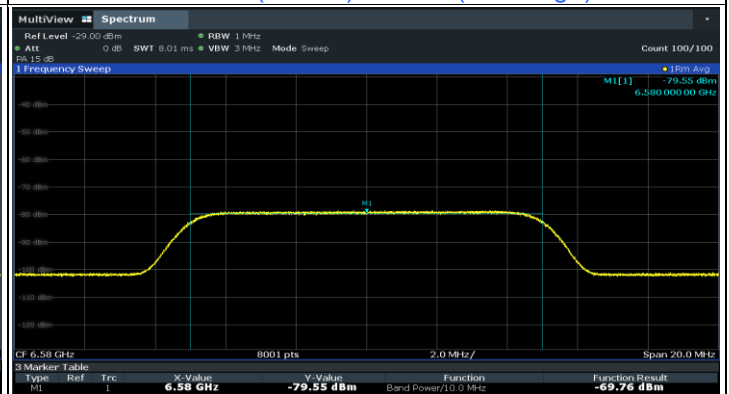
802.11ax (HE20) / CH97



802.11ax (HE160) / CH111(Low Edge)



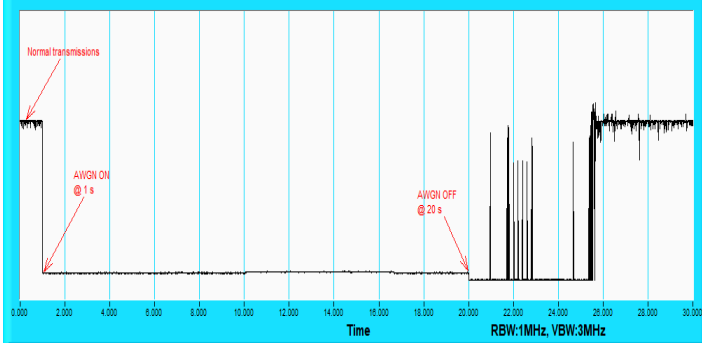
802.11ax (HE160) / CH111(Middle)



802.11ax (HE160) / CH111(High Edge)

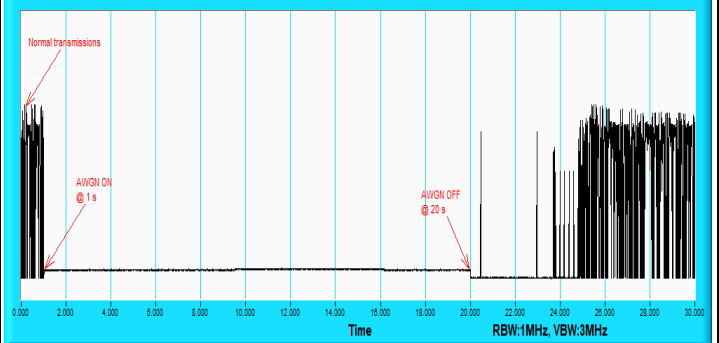
Plots of EUT ceased transmission in the time domain

UNII6_BW20_CH97_6435_TRS



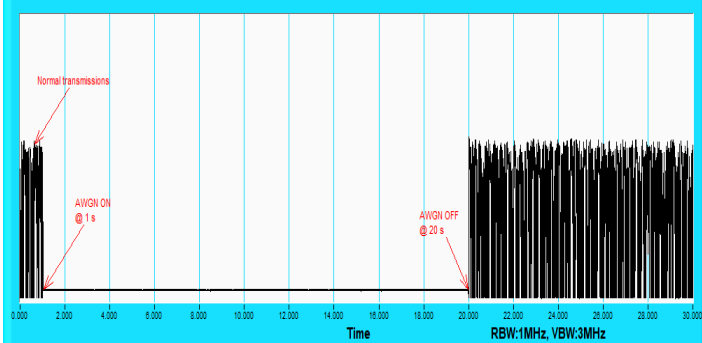
802.11ax (HE20) / CH97

UNII6_BW160_CH111_6430_TRS



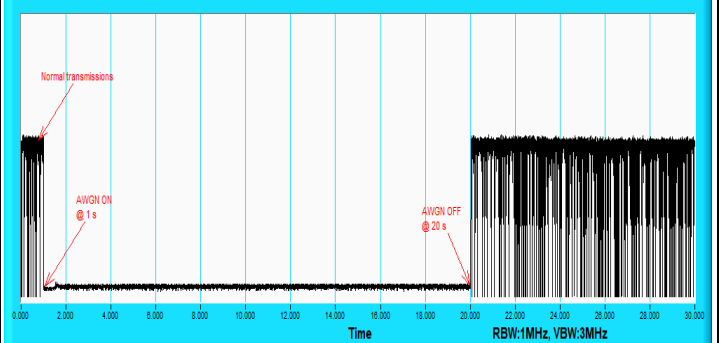
802.11ax (HE160) / CH111(Low Edge)

UNII6_BW160_CH111_6505_TRS



802.11ax (HE160) / CH111(Middle)

UNII6_BW160_CH111_6580_TRS



802.11ax (HE160) / CH111(High Edge)

For U-NII-7

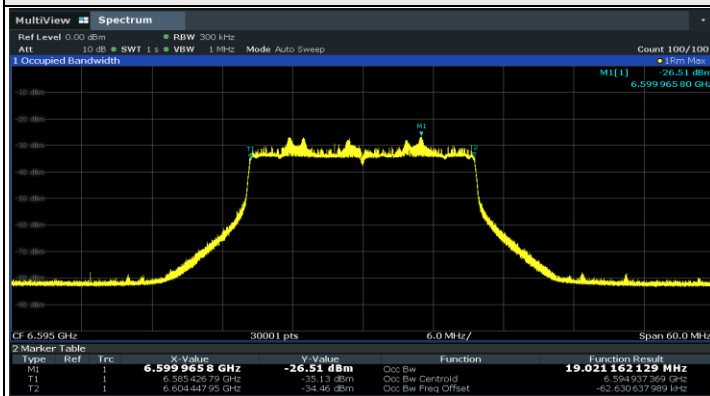
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	129	6595	6595	-71.72	1.88	0	-73.6	-62	OFF
					-72.22	1.88	0	-74.1	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
	160	143	6665	6590	-70.37	1.88	0	-72.25	-62	OFF
					-70.87	1.88	0	-72.75	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6665	-71.22	1.88	0	-73.1	-62	OFF
					-71.72	1.88	0	-73.6	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6740	-78.1	1.88	0	-79.98	-62	OFF
					-78.6	1.88	0	-80.48	-62	Minimal
					-80.12	1.88	0	-82	-62	ON

Notes:

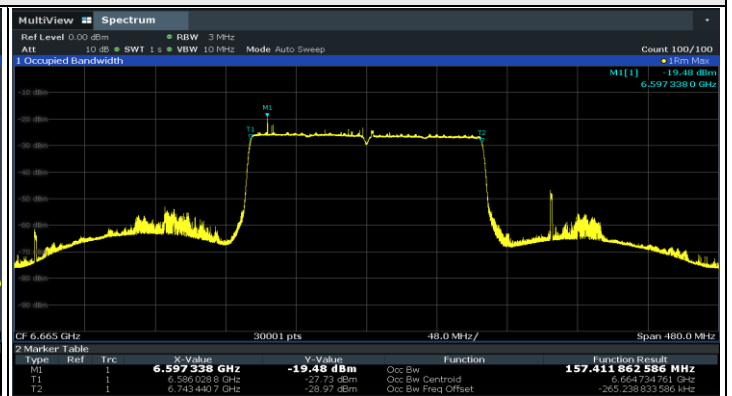
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6595	v	x	v	v	v	v	v	v	v	v	90%	90%	Pass
	160	6590	v	v	v	v	v	v	v	v	v	x	90%	90%	Pass
		6665	v	x	v	v	v	v	v	v	v	v	90%	90%	Pass
		6740	v	v	x	v	v	v	v	v	v	v	90%	90%	Pass

Plots of EUT Tx waveform

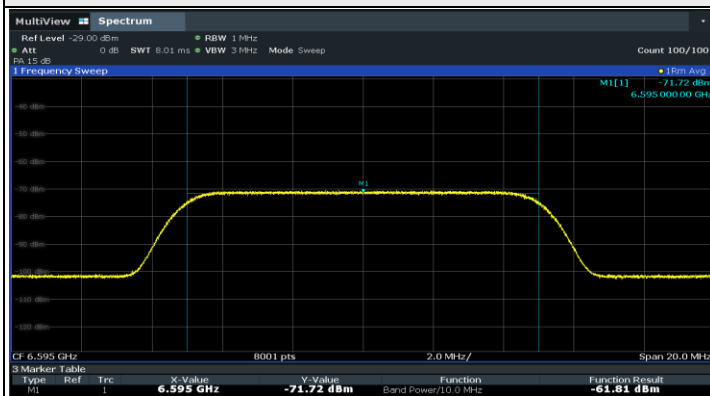


802.11ax (HE20) / CH129

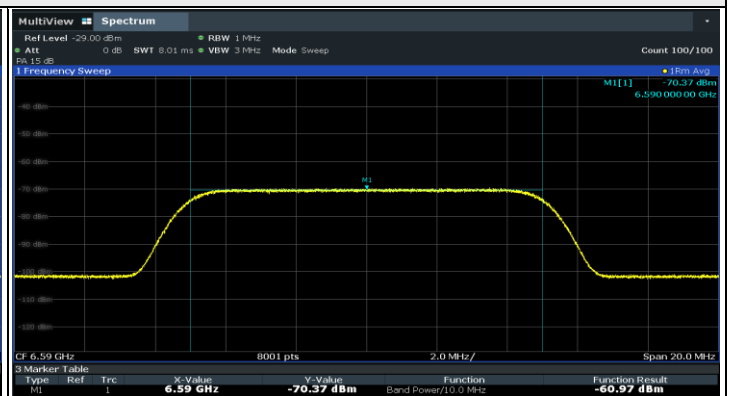


802.11ax (HE160) / CH143

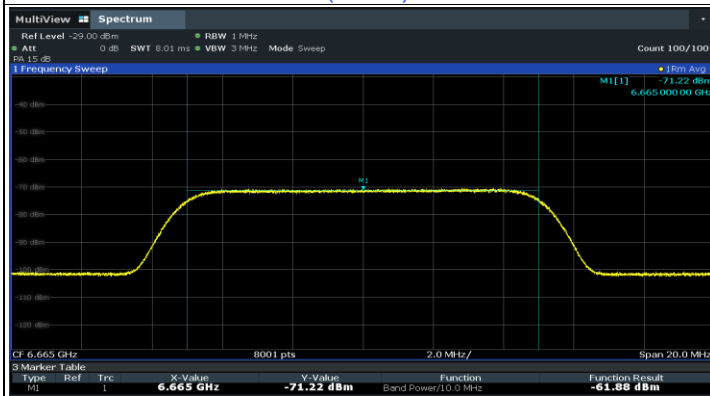
Plots of Injected signal (AWGN) level



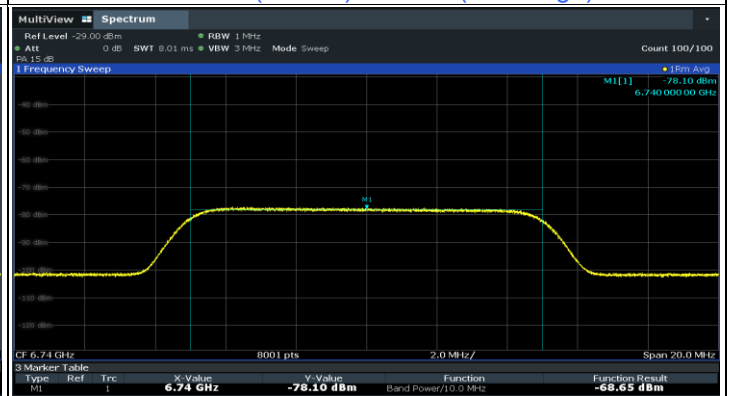
802.11ax (HE20) / CH129



802.11ax (HE160) / CH143(Low Edge)



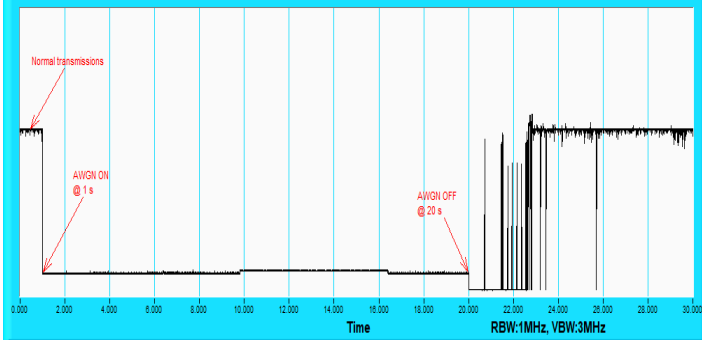
802.11ax (HE160) / CH143(Middle)



802.11ax (HE160) / CH143(High Edge)

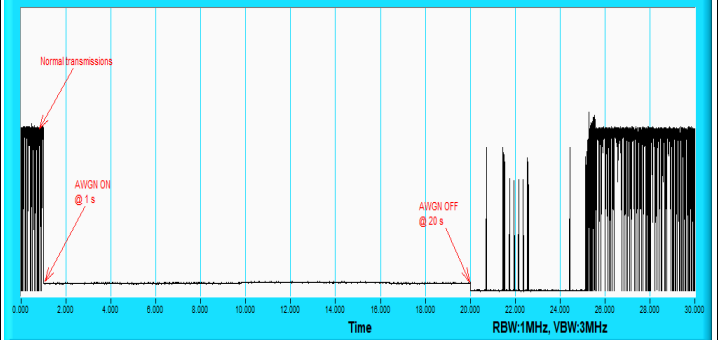
Plots of EUT ceased transmission in the time domain

UNII7_BW20_CH129_6595_TRS



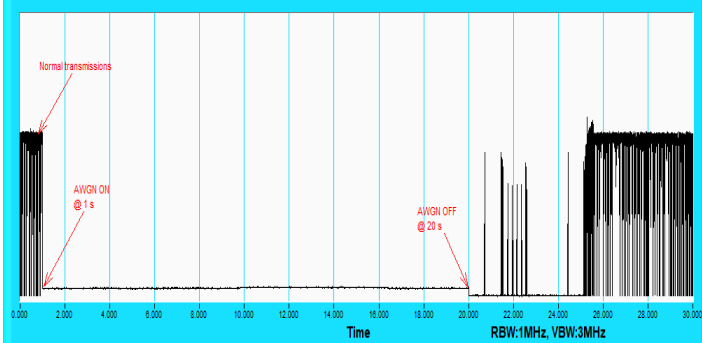
802.11ax (HE20) / CH129

UNII7_BW160_CH143_6590_TRS



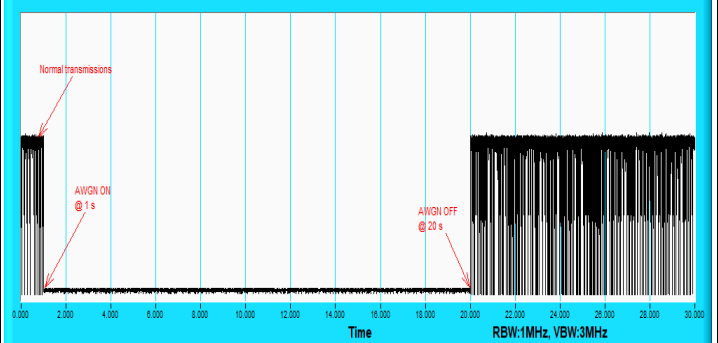
802.11ax (HE160) / CH143(Low Edge)

UNII7_BW160_CH143_6665_TRS



802.11ax (HE160) / CH143(Middle)

UNII7_BW160_CH143_6740_TRS



802.11ax (HE160) / CH143(High Edge)

For U-NII-8

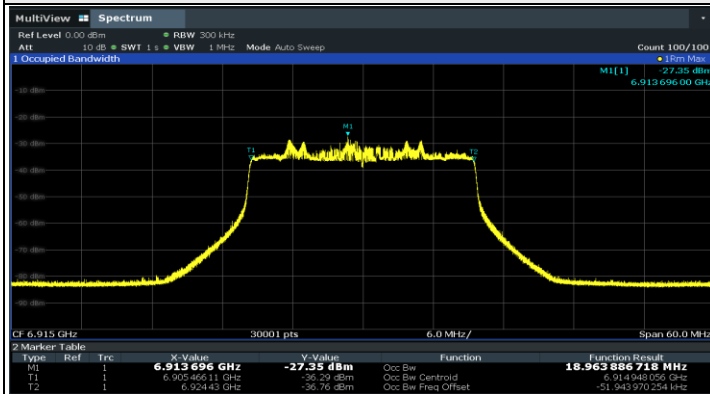
Contention Based Protocol Measurement										
Operation Mode	Channel Bandwidth (MHz)	Channel Number	Channel Freq. (MHz)	Injected Signal (AWGN)		Antenna Gain (dBi)	Path Loss (dB) (Note 3)	Adjusted Power (dBm)	Detection Limit	EUT TX Status
				Freq. (MHz)	Power (dBm)					
802.11ax	20	193	6915	6915	-72.31	1.88	0	-74.19	-62	OFF
					-72.81	1.88	0	-74.69	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
	160	207	6910	6910	-72.32	1.88	0	-74.2	-62	OFF
					-72.82	1.88	0	-74.7	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				6985	-76.29	1.88	0	-78.17	-62	OFF
					-76.79	1.88	0	-78.67	-62	Minimal
					-80.12	1.88	0	-82	-62	ON
				7060	-77.33	1.88	0	-79.21	-62	OFF
					-77.83	1.88	0	-79.71	-62	Minimal
					-80.12	1.88	0	-82	-62	ON

Notes:

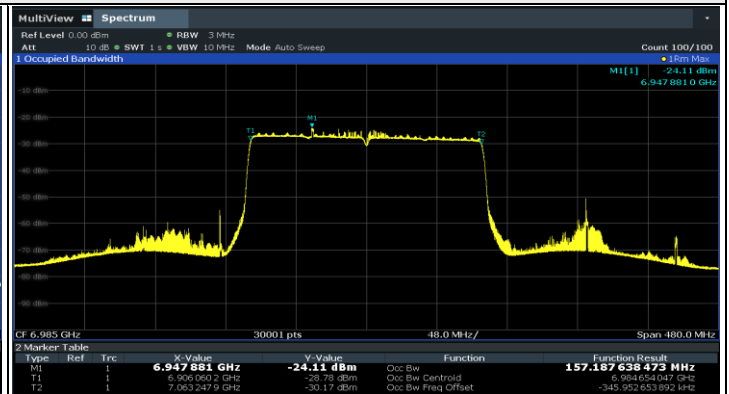
1. After investigation (consider antenna gain and path loss) , the one representative port (Chain 0) was measured and presented in the report.
2. Adjusted Power (dBm) = Injected Signal (AWGN) Power (dBm) - Antenna Gain (dBi) + Path Loss (dB)
3. Antenna gain values include all the applicable path losses.
4. This device does not use the channel puncturing and bandwidth reduction mechanisms for incumbent avoidance, but instead switches to other channels to perform its function.

Contention Based Protocol Detection Probability															
Operation Mode	Channel Bandwidth (MHz)	AWGN Signal Freq. (MHz)	#01	#02	#03	#04	#05	#06	#07	#08	#09	#10	Detection Probability	Detection Limit	Test Result
802.11ax	20	6915	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
	160	6910	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		6985	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass
		7060	v	v	v	v	v	v	v	v	v	v	100%	90%	Pass

Plots of EUT Tx waveform

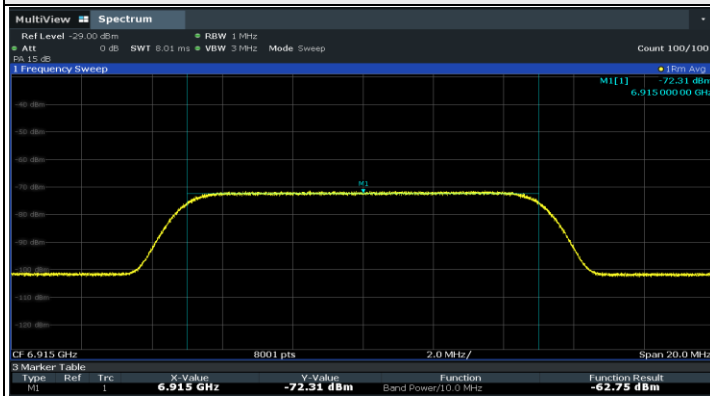


802.11ax (HE20) / CH193

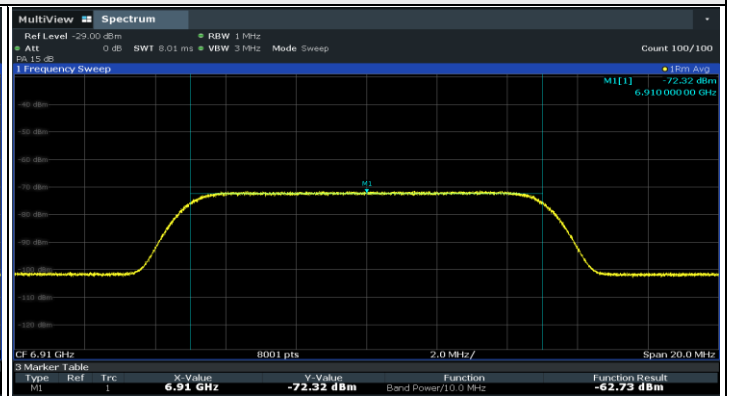


802.11ax (HE160) / CH207

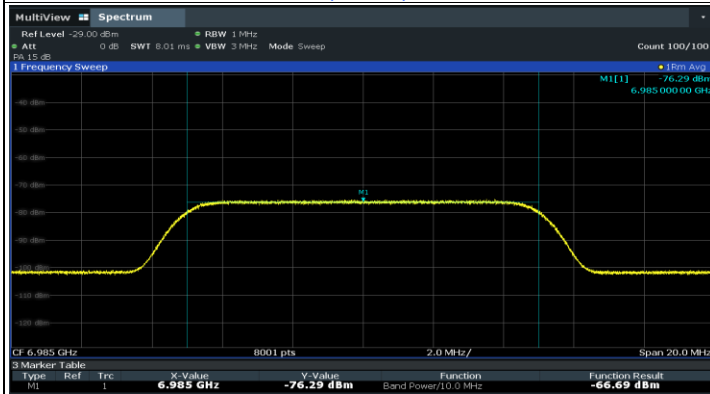
Plots of Injected signal (AWGN) level



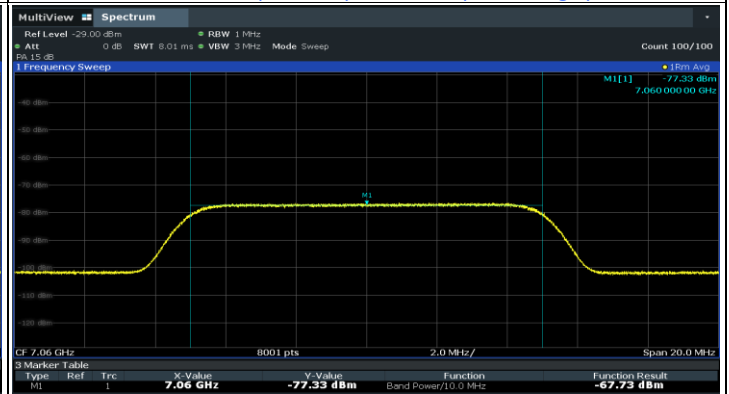
802.11ax (HE20) / CH193



802.11ax (HE160) / CH207 (Low Edge)



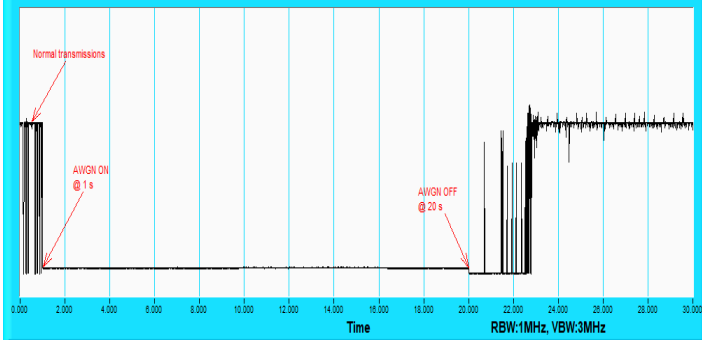
802.11ax (HE160) / CH207 (Middle)



802.11ax (HE160) / CH207 (High Edge)

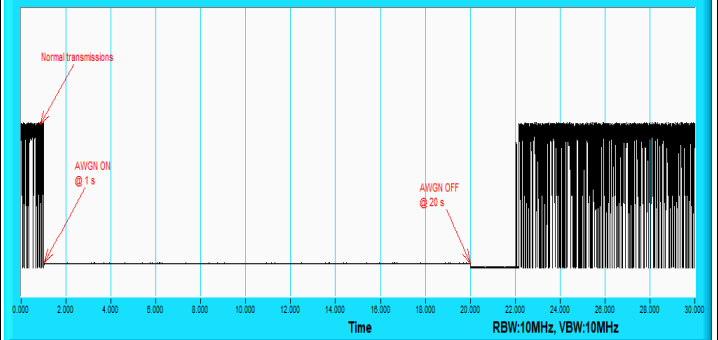
Plots of EUT ceased transmission in the time domain

UNII8_BW20_CH193_6915_TRS



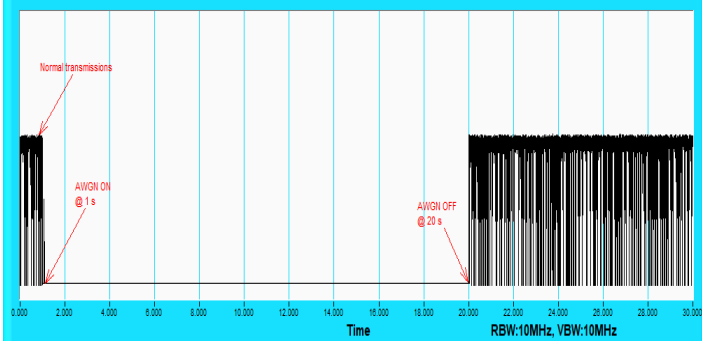
802.11ax (HE20) / CH193

UNII8_BW160_CH207_6910_TRS



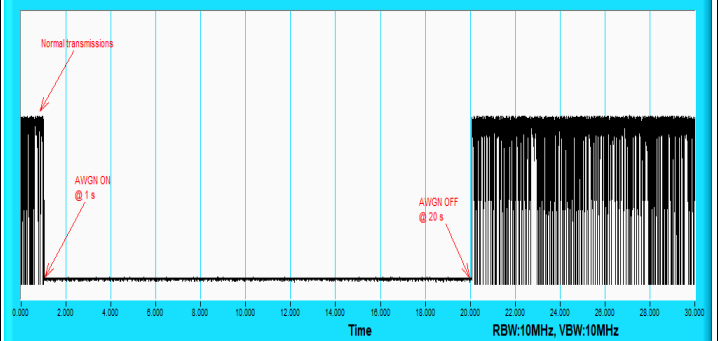
802.11ax (HE160) / CH207(Low Edge)

UNII8_BW160_CH207_6985_TRS



802.11ax (HE160) / CH207(Middle)

UNII8_BW160_CH207_7060_TRS



802.11ax (HE160) / CH207(High Edge)

8 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo)

9 Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: <http://ee.bureauveritas.com.tw>

The address and road map of all our labs can be found in our web site also.

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