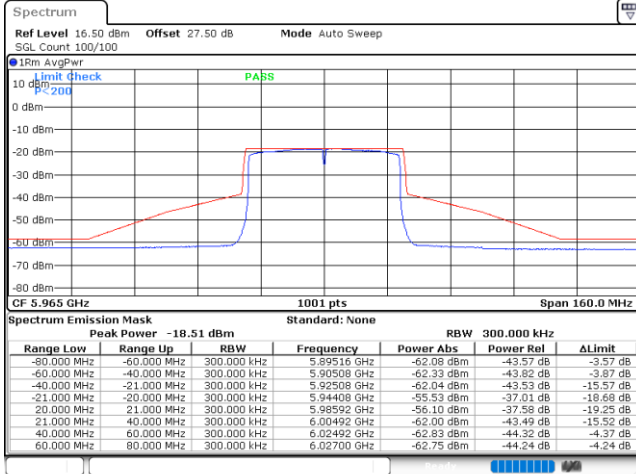




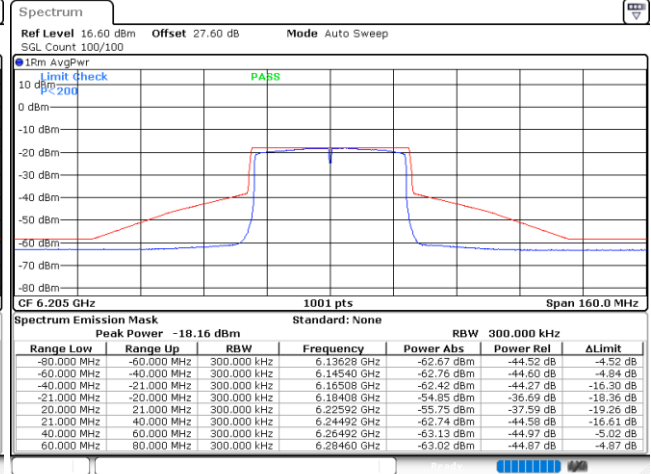
EUT Mode : 802.11ax HE40

Plot on Channel 5965MHz



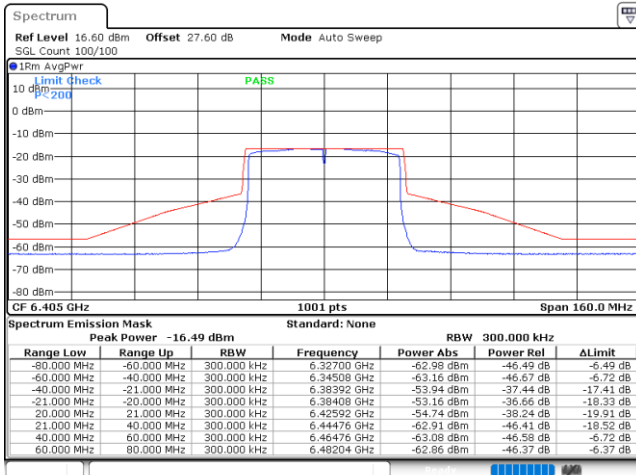
Date: 19.FEB.2022 17:44:51

Plot on Channel 6205MHz



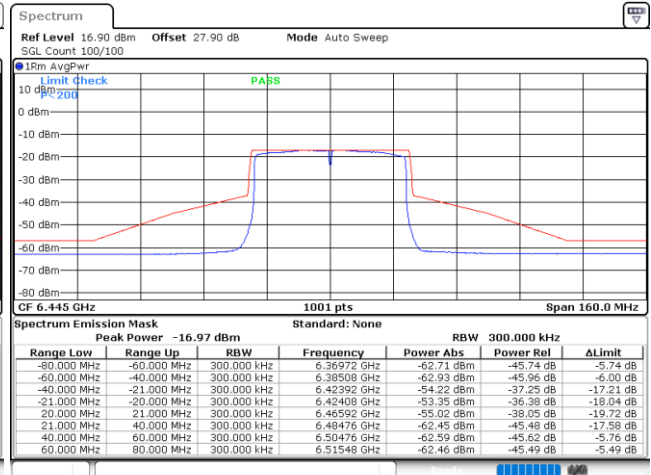
Date: 19.FEB.2022 18:02:21

Plot on Channel 6405MHz



Date: 19.FEB.2022 18:25:25

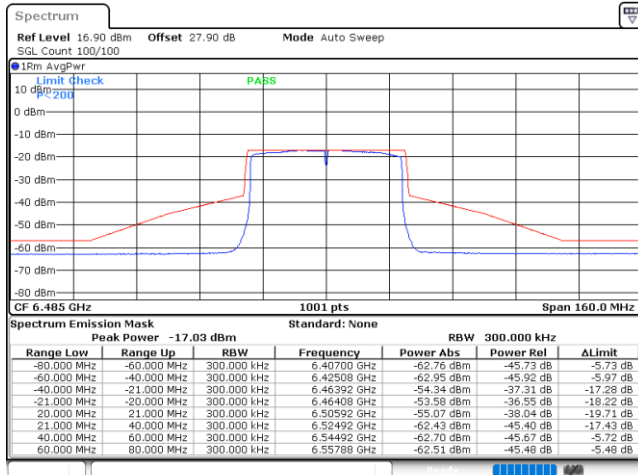
Plot on Channel 6445MHz



Date: 19.FEB.2022 18:47:50

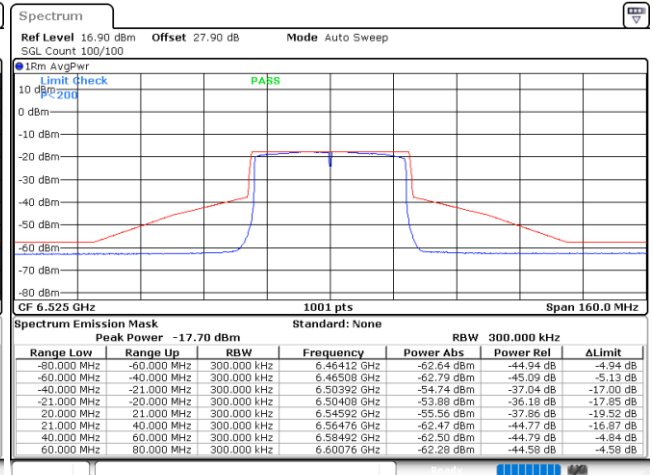


Plot on Channel 6485MHz



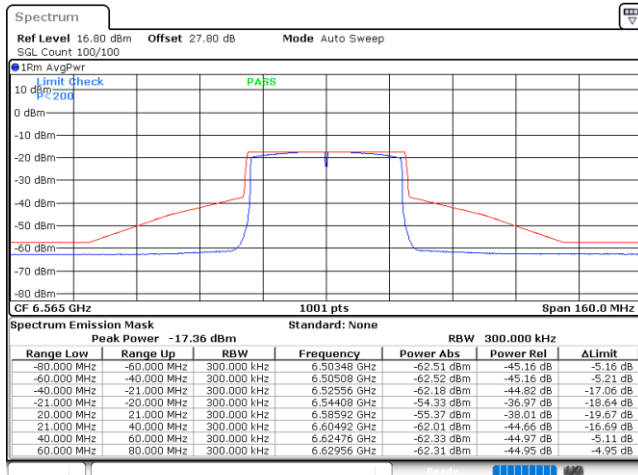
Date: 19.FEB.2022 18:53:18

Plot on Channel 6525MHz



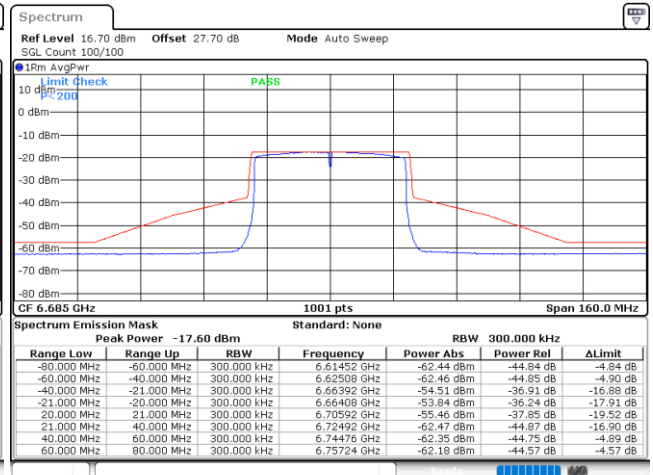
Date: 19.FEB.2022 19:21:17

Plot on Channel 6565MHz



Date: 20.FEB.2022 01:39:45

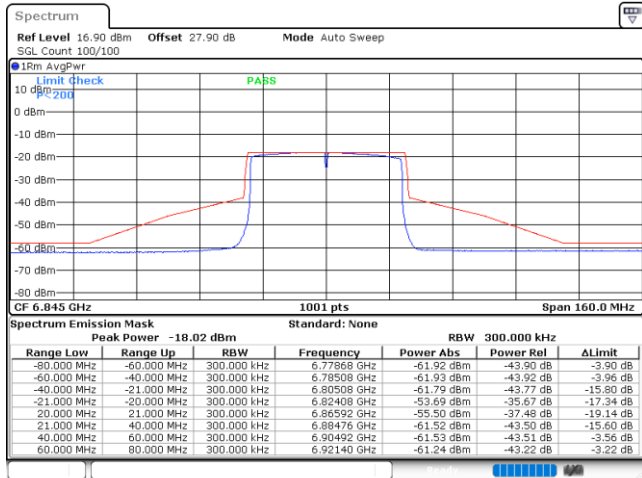
Plot on Channel 6685MHz



Date: 19.FEB.2022 20:37:05



Plot on Channel 6845MHz

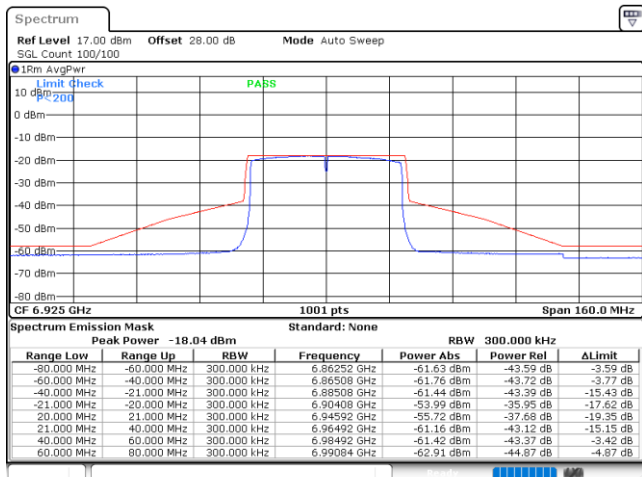


Date: 20.FEB.2022 01:48:32

Plot on Channel 6885MHz

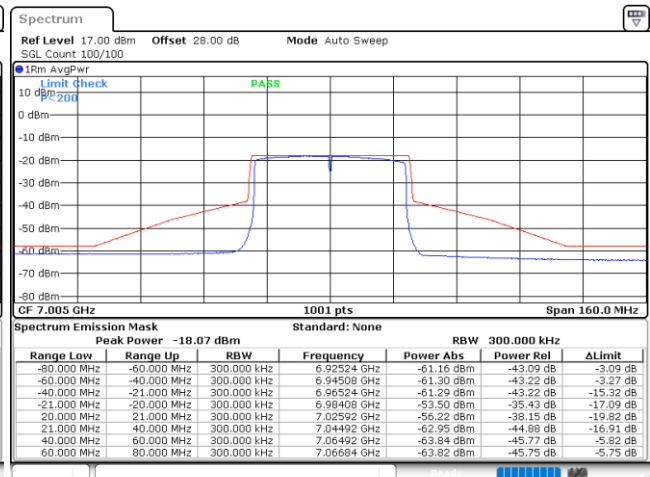
NA

Plot on Channel 6925MHz



Date: 19.FEB.2022 21:12:19

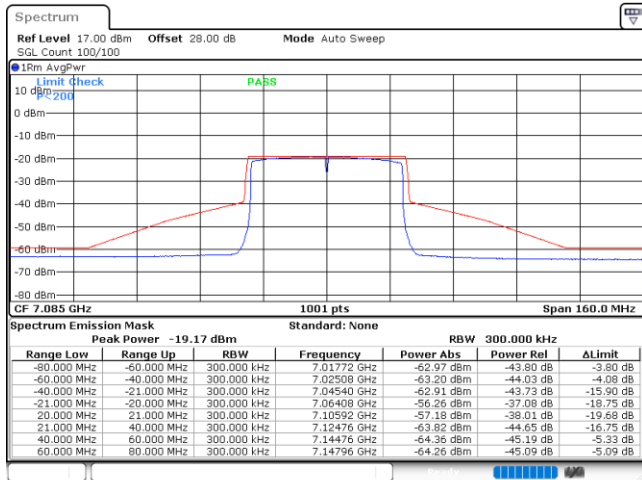
Plot on Channel 7005MHz



Date: 20.FEB.2022 02:31:45



Plot on Channel 7085MHz

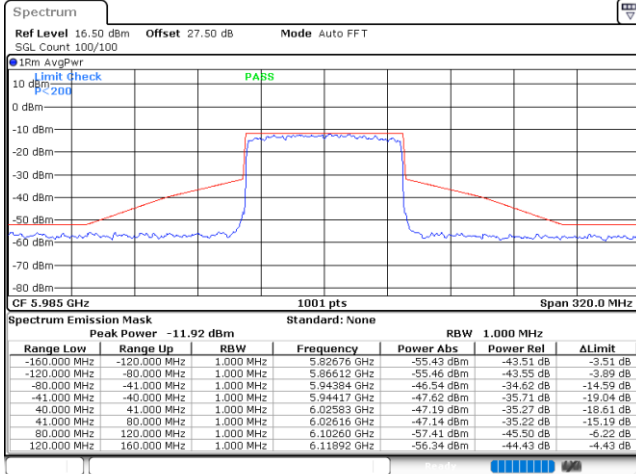


Date: 20.FEB.2022 02:17:59



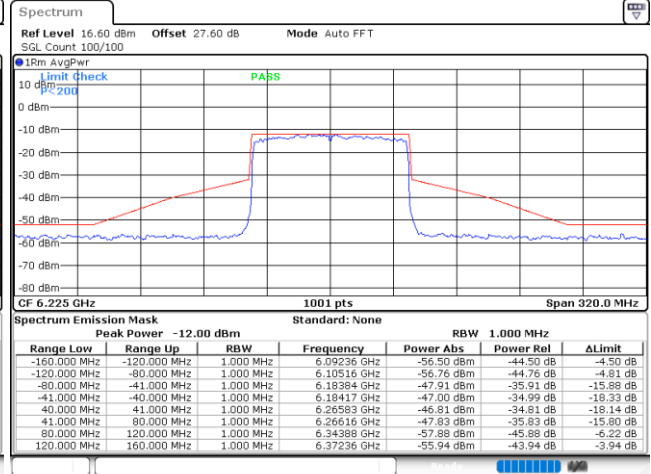
EUT Mode : 802.11ax HE80

Plot on Channel 5985MHz



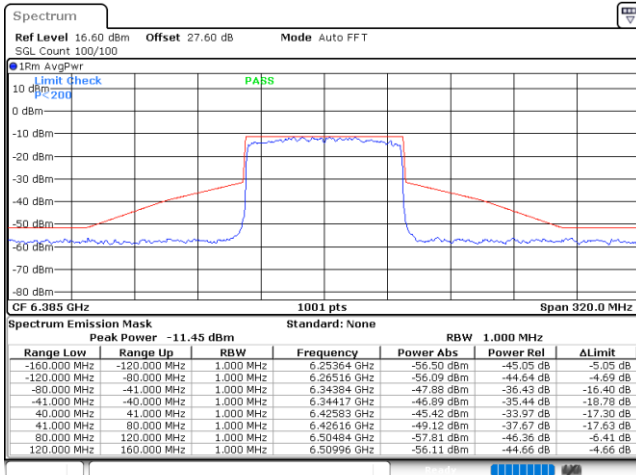
Date: 19.FEB.2022 22:11:52

Plot on Channel 6225MHz



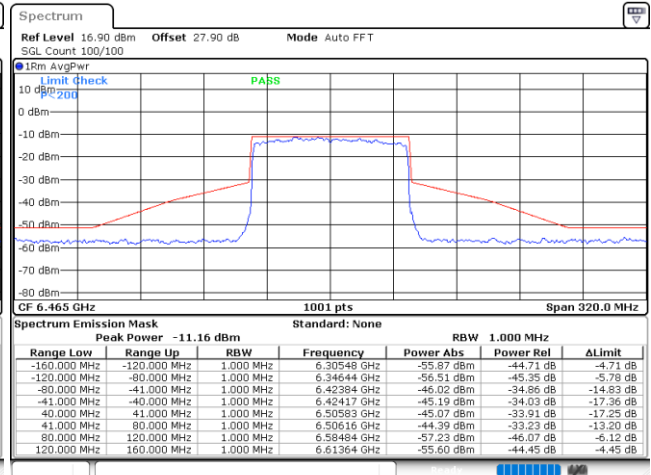
Date: 19.FEB.2022 22:23:36

Plot on Channel 6385MHz



Date: 19.FEB.2022 22:32:56

Plot on Channel 6465MHz



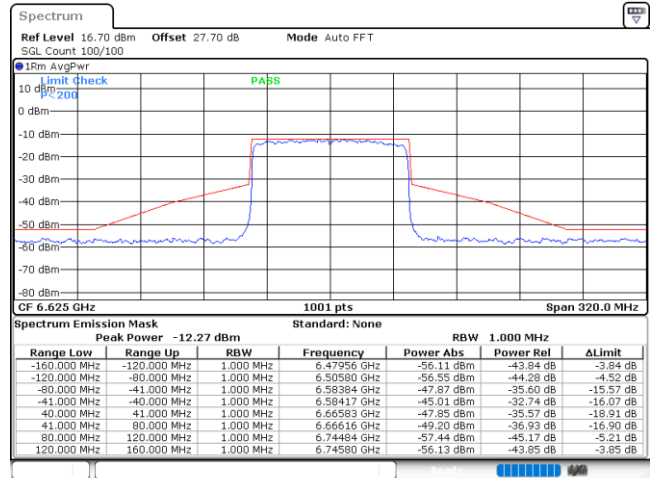
Date: 19.FEB.2022 22:58:46



Plot on Channel 6545MHz

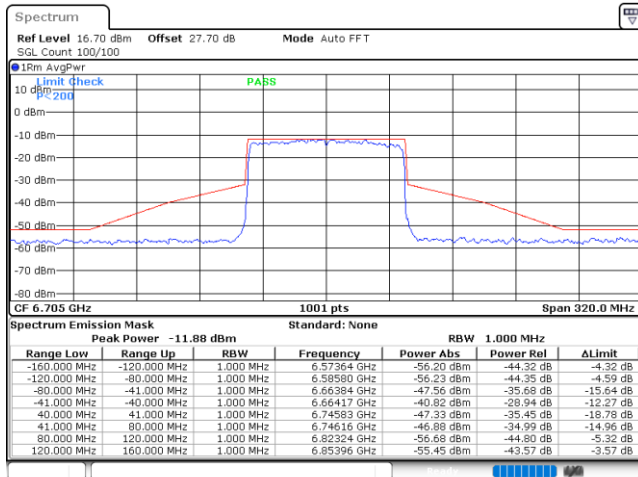
NA

Plot on Channel 6625MHz



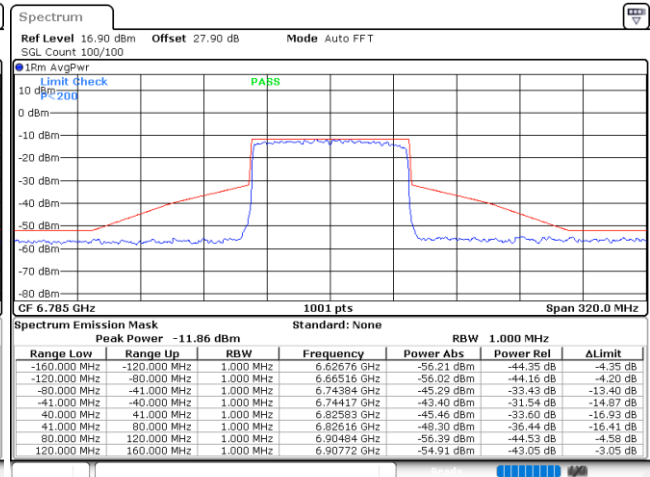
Date: 19.FEB.2022 23:24:30

Plot on Channel 6705MHz



Date: 19.FEB.2022 23:59:24

Plot on Channel 6785MHz



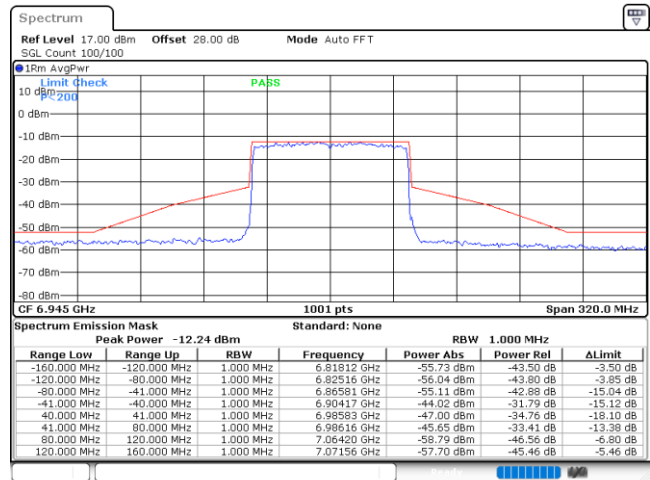
Date: 20.FEB.2022 00:22:56



Plot on Channel 6865MHz

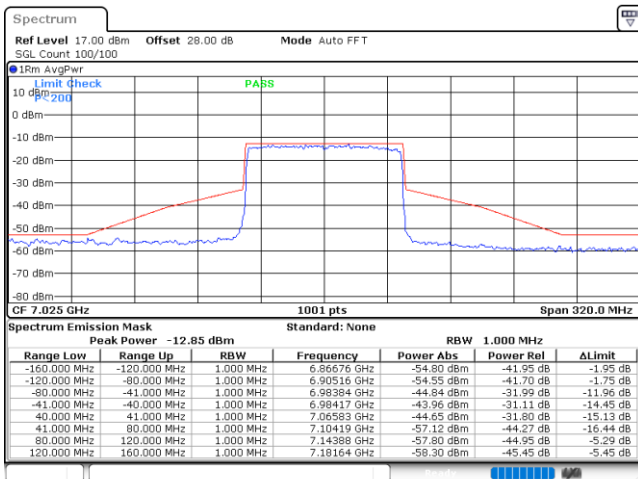
NA

Plot on Channel 6945MHz



Date: 20.FEB.2022 00:13:11

Plot on Channel 7025MHz

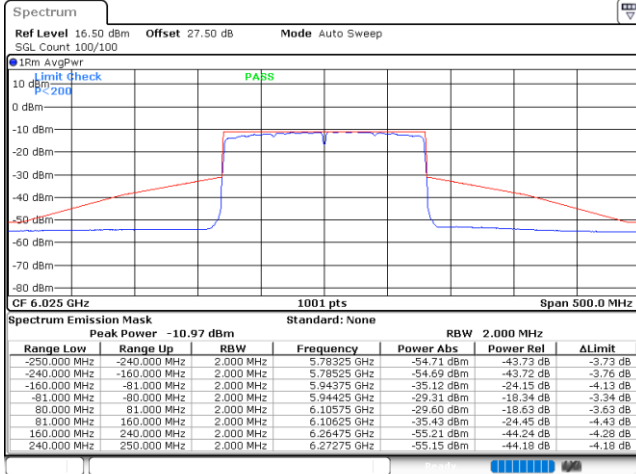


Date: 20.FEB.2022 00:43:21



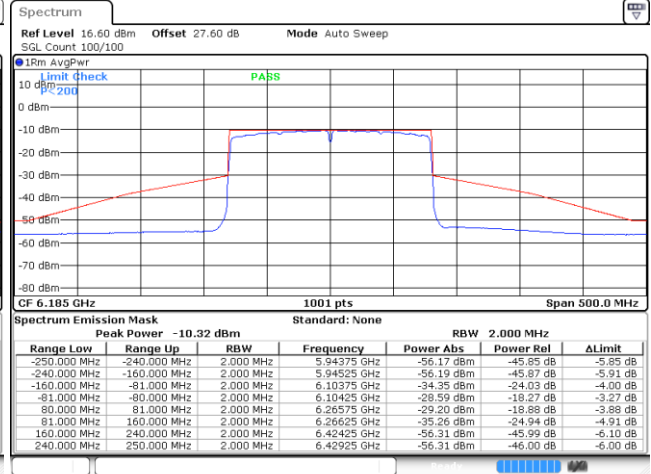
EUT Mode : 802.11ax HE160

Plot on Channel 6025MHz



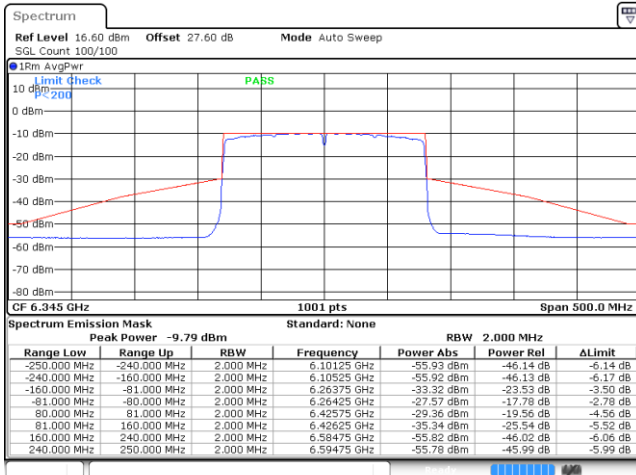
Date: 21.FEB.2022 15:31:36

Plot on Channel 6185MHz



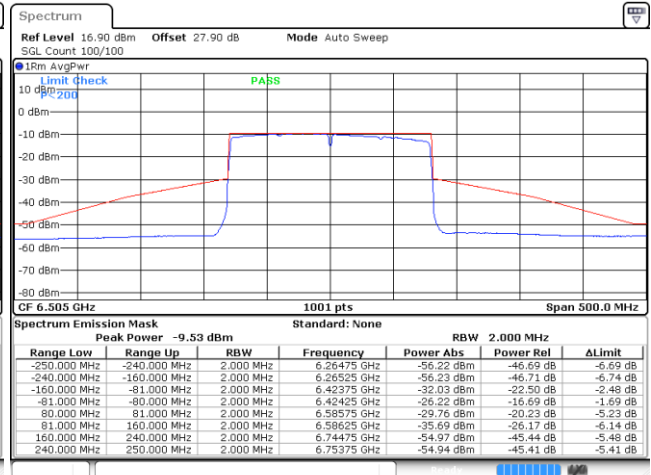
Date: 22.FEB.2022 11:12:28

Plot on Channel 6345MHz



Date: 22.FEB.2022 11:18:08

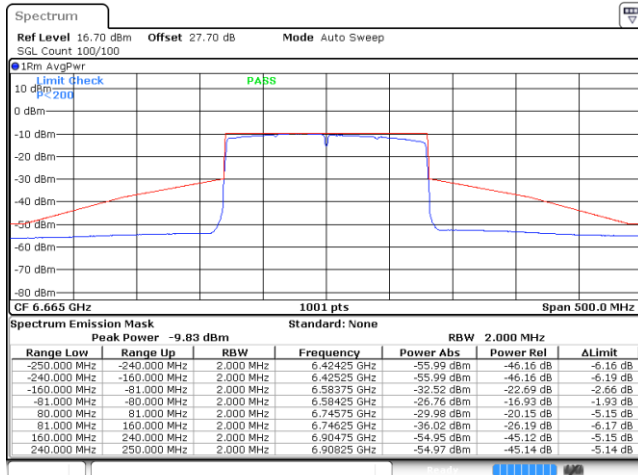
Plot on Channel 6505MHz



Date: 22.FEB.2022 11:27:02

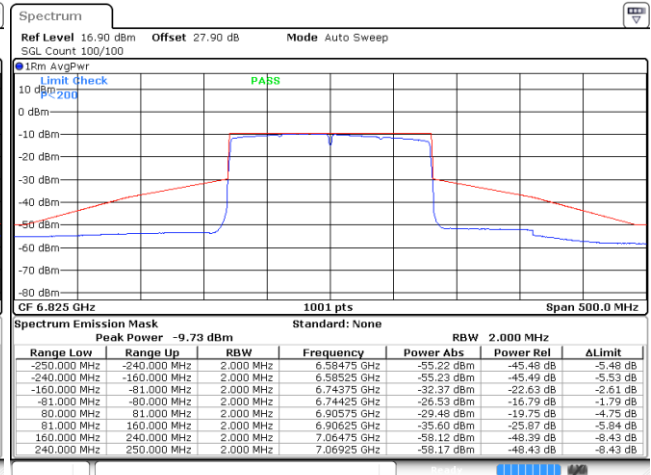


Plot on Channel 6665MHz



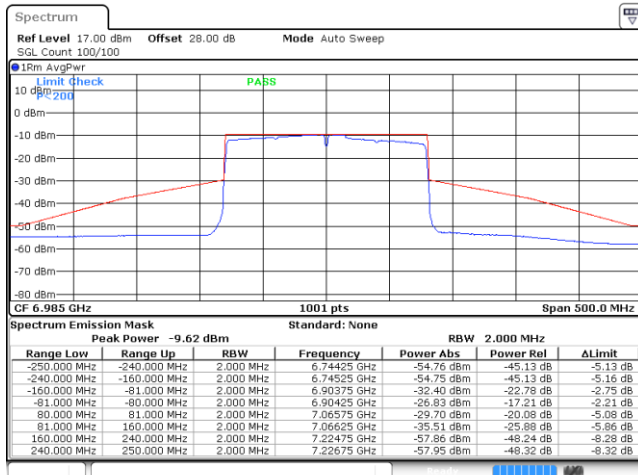
Date: 22 FEB 2022 11:35:49

Plot on Channel 6825MHz



Date: 22 FEB 2022 11:40:36

Plot on Channel 6985MHz



Date: 22 FEB 2022 11:45:41

3.5 Contention Based Protocol

3.5.1 Limit of Contention Based Protocol

<FCC 14-30 CFR 15.407>

(d)(6) Indoor access points, subordinate devices and client devices operating in the 5.925-7.125 GHz band must employ a contention-based protocol.

FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01

Unlicensed low-power indoor devices must detect co-channel radio frequency power that is at least -62 dBm or lower. Upon detection of energy in the band, unlicensed low power indoor devices must vacate the channel and stay off the channel as long as detected radio frequency power is equal to or greater than the threshold (-62 dBm). The -62 dBm (or lower) threshold is referenced to a 0 dBi antenna gain. To ensure incumbent operations are reliably detected in the band, low power indoor devices must detect RF energy throughout their intended operating channel. For example, an 802.11 device that plans to transmit a 40 MHz- wide signal (on a primary 20 MHz channel and a secondary 20 MHz channel) must detect energy throughout the entire 40 MHz channel. Additionally, low-power indoor devices must detect co-channel energy with 90% or greater certainty.

Table 1. Criteria to determine number of times detection threshold test may be performed

If	Number of Tests	Placement of Incumbent Transmission
$BW_{EUT} \leq BW_{Inc}$	Once	Tune incumbent and EUT transmissions ($f_{c1} = f_{c2}$)
$BW_{Inc} < BW_{EUT} \leq 2BW_{Inc}$	Once	Incumbent transmission is contained within BW_{EUT}
$2BW_{Inc} < BW_{EUT} \leq 4BW_{Inc}$	Twice. Incumbent transmission is contained within BW_{EUT}	Incumbent transmission is located as closely as possible to the lower edge and upper edge, respectively, of the EUT channel
$BW_{EUT} > 4BW_{Inc}$	Three times	Incumbent transmission is located as closely as possible to the lower edge of the EUT channel, in the middle of EUT channel, and as closely as possible to the upper edge of the EUT channel

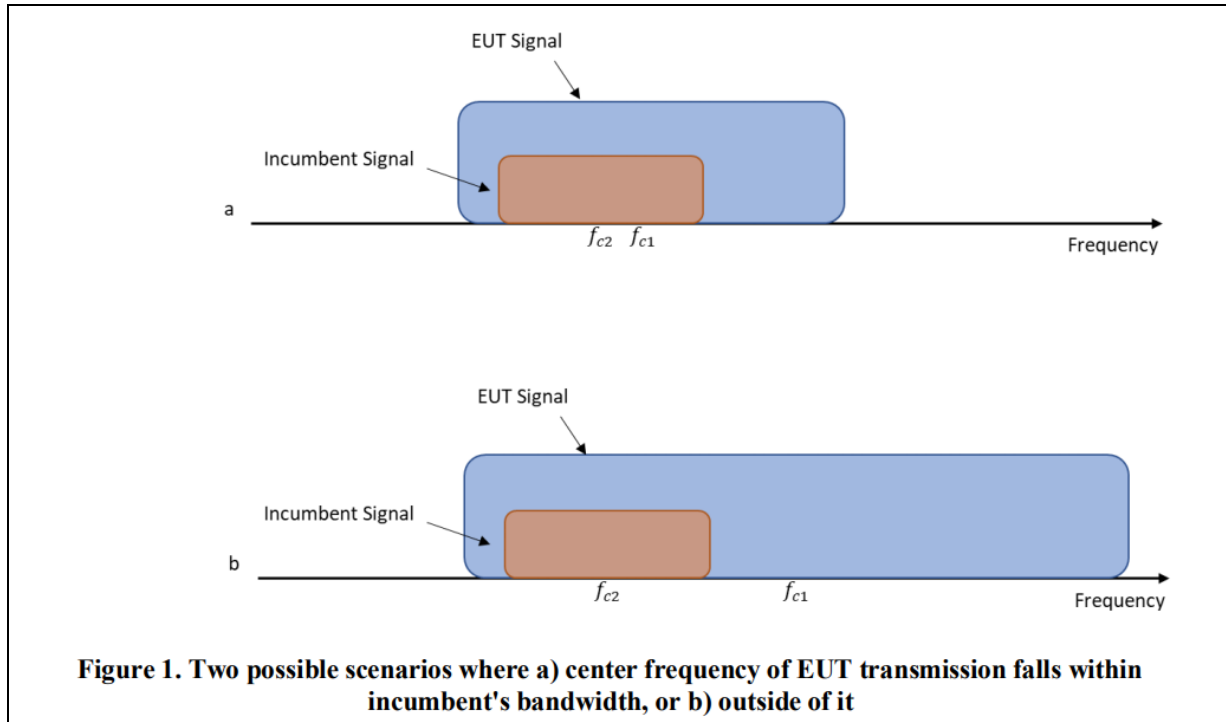
where:

BW_{EUT} : Transmission bandwidth of EUT signal

BW_{Inc} : Transmission bandwidth of the simulated incumbent signal (10 MHz wide AWGN signal)

f_{c1} : Center frequency of EUT transmission

f_{c2} : Center frequency of simulated incumbent signal



3.5.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.5.3 Test Procedures

The testing follows FCC KDB 987594 D02 U-NII 6GHz EMC Measurement v01.

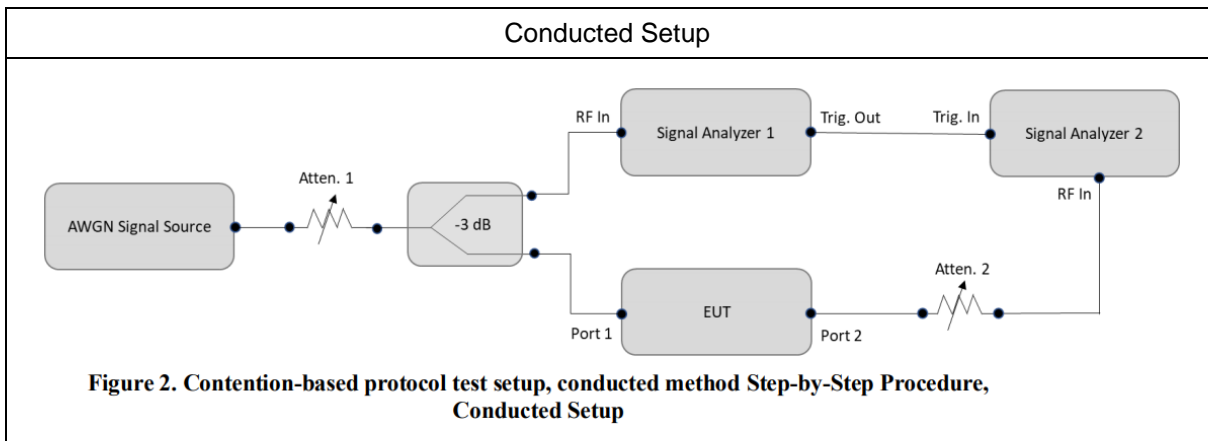
Section I) Contention Based Protocol

Conducted method Step-by-Step Procedure, Conducted Setup

1. Configure the EUT to transmit with a constant duty cycle.
2. Set the operating parameters of the EUT including power level, operating frequency, modulation and bandwidth.
3. 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.
4. Connect the output port of the EUT to the signal analyzer 2, as shown in test setup Figure 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
5. Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters set at step two.
6. Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use Table 1 to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
7. 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 as shown in test setup Figure 2.
8. Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.

9. 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.
10. (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.
11. Refer to Table 1 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 5, choose a different center frequency for the AWGN signal and repeat the process.
12. For the contention-based protocol test where only one channel in each supported sub-band needs to be tested. The narrowest and widest bandwidth in each channel shall be measured EUT was driven in MIMO mode, the interferer level was injected to both chains to monitor the performance, while the interferer level is determined according the lowest antenna gain among both antennas (i.e, lower interferer level).

3.5.4 Test Setup



3.5.5 Support Unit used in test configuration and system

Instrument	Brand Name	Model No.	Characteristics
WLAN AP	Netgear	MR6500	Dual Band AP
Notebook	Acer	N15C1	LAN



3.5.6 Test Summary of Contention Based Protocol Test

Test Engineer :	Kai Liao	Temperature :	24~26°C
		Relative Humidity :	45~50%

Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	AWGN Threshold Level (dBm)	Margin (dB)	
UNII Band 5	6135	20	6135	-79.15	100	-62	-58.72	20.43	
				Result : Stop Transmission					
	6135	20	6135	-80.15	< 90	-62	-58.72	21.43	
				Result : Start Transmission					
	6185	160	6110	-76.03	100	-62	-58.72	17.31	
				Result : Stop Transmission					
			6185	160	-77.03	< 90	-62	-58.72	18.31
					Result : Start Transmission				
	6185	160	6185	-71.38	100	-62	-58.72	12.66	
				Result : Stop Transmission					
	6185	160	6185	-72.38	< 90	-62	-58.72	13.66	
				Result : Start Transmission					
6260	160	6260	-75.79	100	-62	-58.72	17.07		
			Result : Stop Transmission						
6260	160	6260	-76.79	< 90	-62	-58.72	18.07		
			Result : Start Transmission						

Note: AWGN Threshold Level (TL) = -62dBm (Regulated Threshold Level) + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	AWGN Threshold Level (dBm)	Margin (dB)		
UNII Band 6	6455	20	6455	-80.01	100	-62	-59.46	20.55		
				Result : Stop Transmission						
	6455	20	6455	-81.01	< 90	-62	-59.46	21.55		
				Result : Start Transmission						
	6505	160	6430	-74.93	100	-62	-59.46	15.47		
				Result : Stop Transmission						
			6430	-75.93	< 90	-62	-59.46	16.47		
				Result : Start Transmission						
			6505	160	6505	-71.64	100	-62	-59.46	12.18
						Result : Stop Transmission				
	6505	160	6505	-72.64	< 90	-62	-59.46	13.18		
				Result : Start Transmission						
6580	160	6580	-74.68	100	-62	-59.46	15.22			
			Result : Stop Transmission							
6580	160	6580	-75.68	< 90	-62	-59.46	16.22			
			Result : Start Transmission							

Note: AWGN Threshold Level (TL) = -62dBm (Regulated Threshold Level) + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	AWGN Threshold Level (dBm)	Margin (dB)
UNII Band 7	6695	20	6695	-77.34	100	-62	-58.58	18.76
				Result : Stop Transmission				
	6665	160	6590	-78.34	< 90	-62	-58.58	19.76
				Result : Start Transmission				
	6665	160	6590	-76.14	100	-62	-58.58	17.56
				Result : Stop Transmission				
	6665	160	6665	-77.14	< 90	-62	-58.58	18.56
				Result : Start Transmission				
	6740	160	6665	-71.87	100	-62	-58.58	13.29
				Result : Stop Transmission				
	6740	160	6740	-72.87	< 90	-62	-58.58	14.29
				Result : Start Transmission				
6740	160	6740	-75.87	100	-62	-58.58	17.29	
			Result : Stop Transmission					
6740	160	6740	-76.87	< 90	-62	-58.58	18.29	
			Result : Start Transmission					

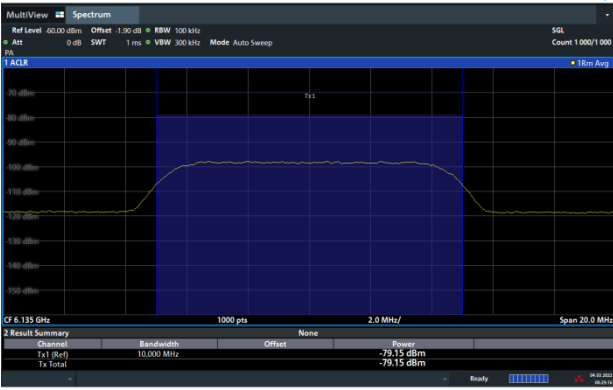
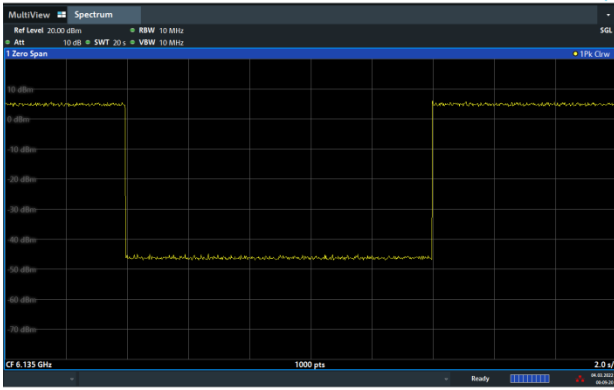
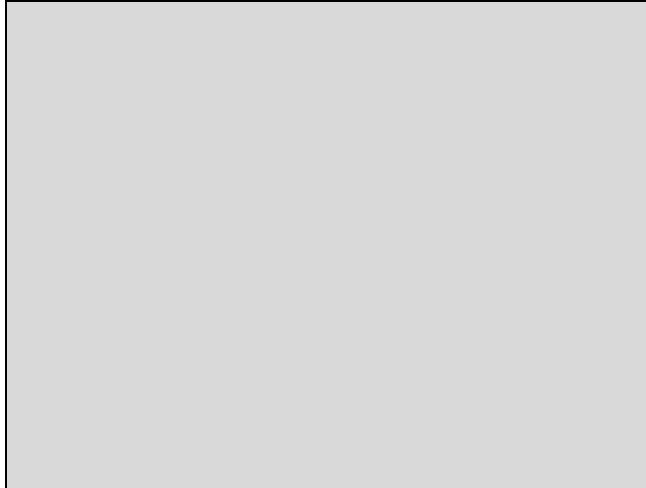
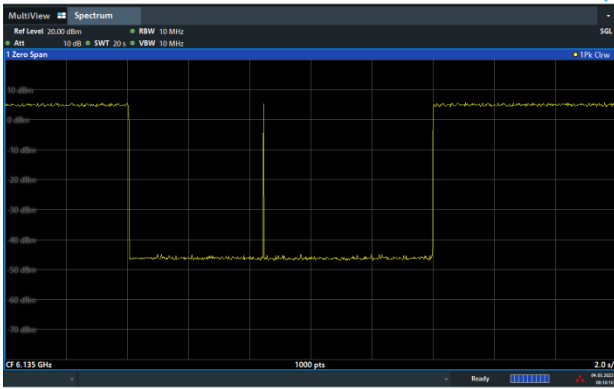
Note: AWGN Threshold Level (TL) = -62dBm (Regulated Threshold Level) + minimum antenna gain



Band	Channel Freq. (MHz)	Channel BW (MHz)	Incumbent freq. (MHz)	Measured Detection Level (dBm)	Detection Rate (%)	Regulated Threshold Level (dBm)	AWGN Threshold Level (dBm)	Margin (dB)			
UNII Band 8	7015	20	7015	-81.23	100	-62	-58.58	22.65			
				Result : Stop Transmission							
	7015	20	7015	-82.23	< 90	-62	-58.58	23.65			
				Result : Start Transmission							
	6985	160	6910	-74.48	100	-62	-58.58	15.9			
				Result : Stop Transmission							
				-75.48	< 90	-62	-58.58	16.9			
				Result : Start Transmission							
			6985	160	6985	-71.3	100	-62	-58.58	12.72	
						Result : Stop Transmission					
					7060	6985	-72.3	< 90	-62	-58.58	13.72
							Result : Start Transmission				
	7060	160	7060	-75.33	100	-62	-58.58	16.75			
				Result : Stop Transmission							
	7060	160	7060	-76.33	< 90	-62	-58.58	17.75			
				Result : Start Transmission							

Note: AWGN Threshold Level (TL) = -62dBm (Regulated Threshold Level) + minimum antenna gain

3.5.7 Test Plots of Contention Based Protocol Test

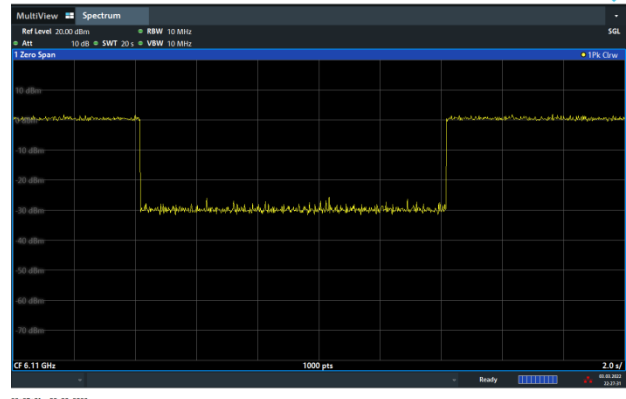
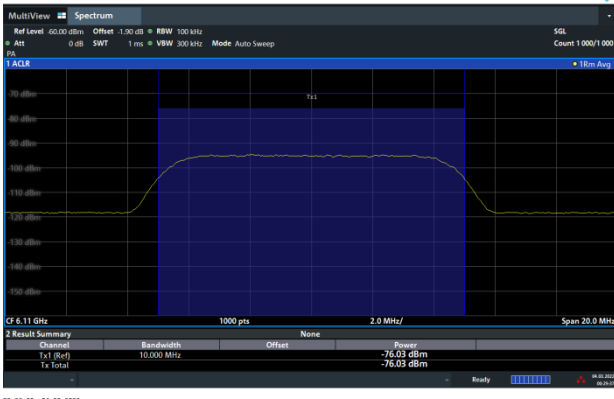
Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)	
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -79.15dBm</p>	<p>802.11ax (HE20) / CH37 Test result is pass due to no transmission occur.</p>
	
<p>802.11ax (HE20) / 6135MHz Threshold Level (TL) = -80.15dBm</p>	<p>802.11ax (HE20) / CH37 Transmit when the interferer is 1dB lower.</p>
	



Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

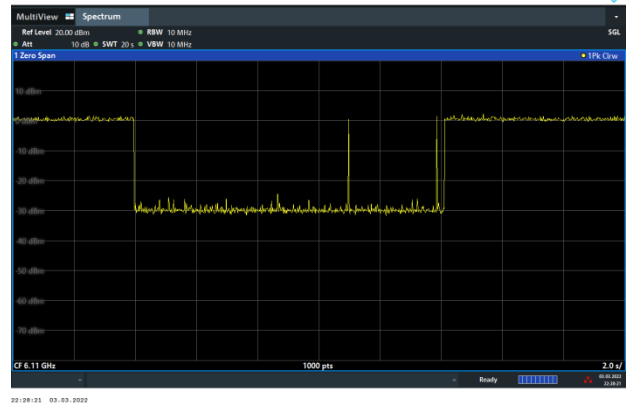
802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -76.03dBm

802.11ax (HE160) / CH47 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6110MHz (Lower edge)
Threshold Level (TL) = -77.03dBm

802.11ax (HE160) / CH47 (Lower edge)
Transmit when the interferer is 1dB lower.



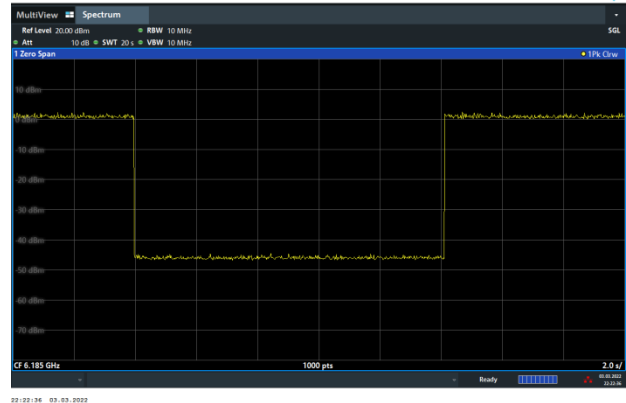
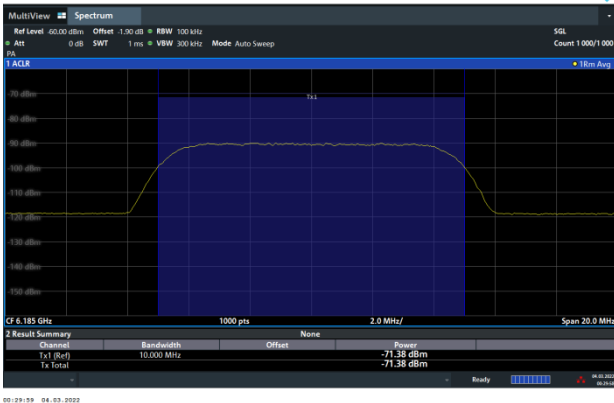


Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = - 71.38dBm

802.11ax (HE160) / CH47 (Middle)

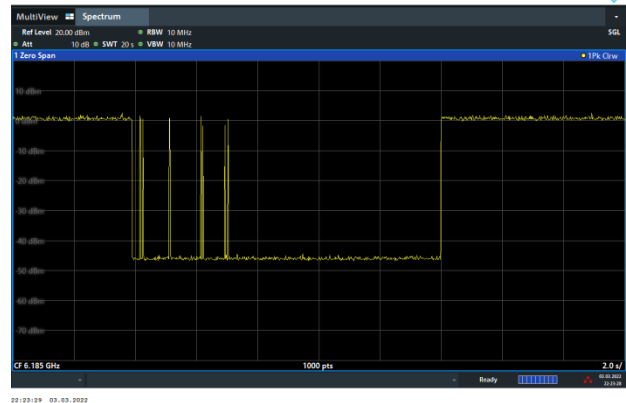
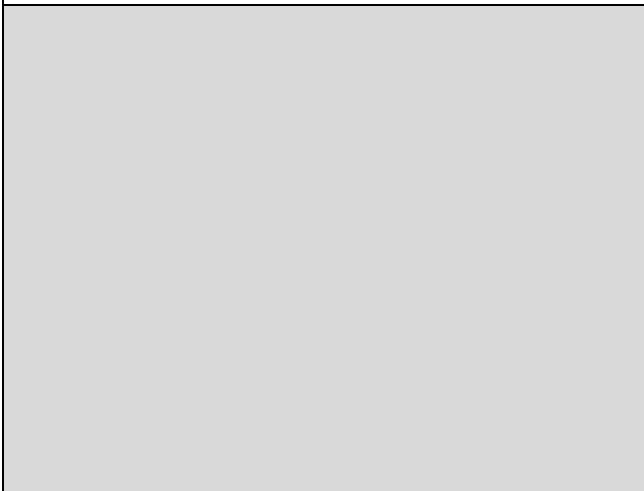
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6185MHz (Middle)
Threshold Level (TL) = --72.38dBm

802.11ax (HE160) / CH47 (Middle)

Transmit when the interferer is 1dB lower.

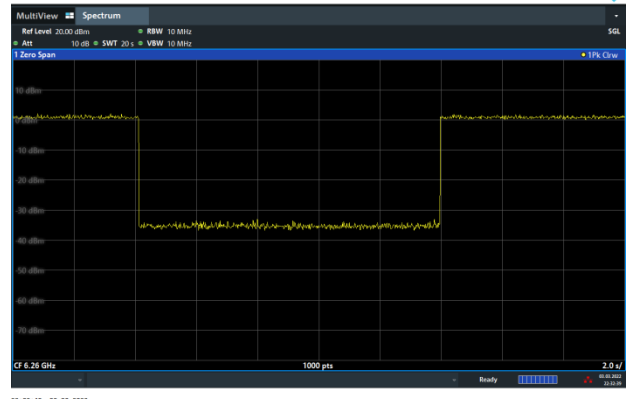
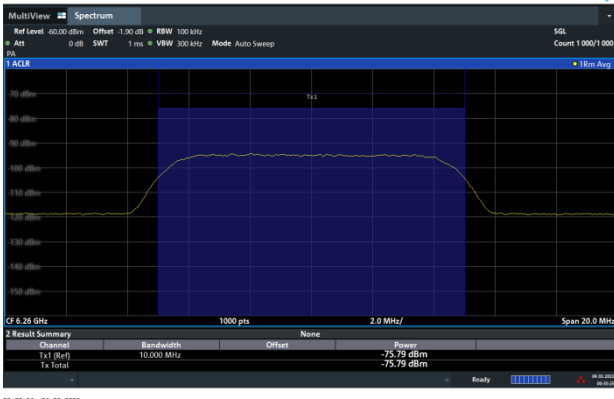




Contention Based Protocol Result Plots on U-NII 5 (AWGN Interference)

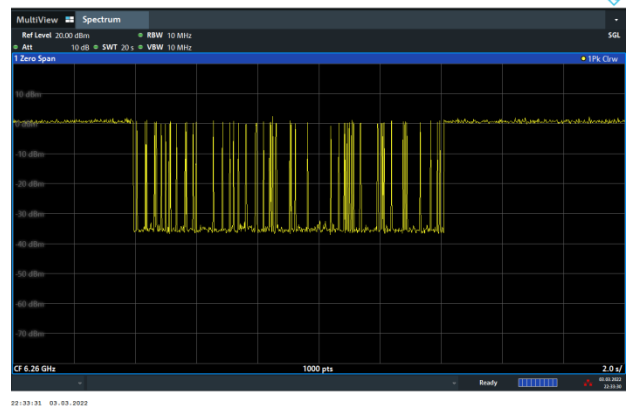
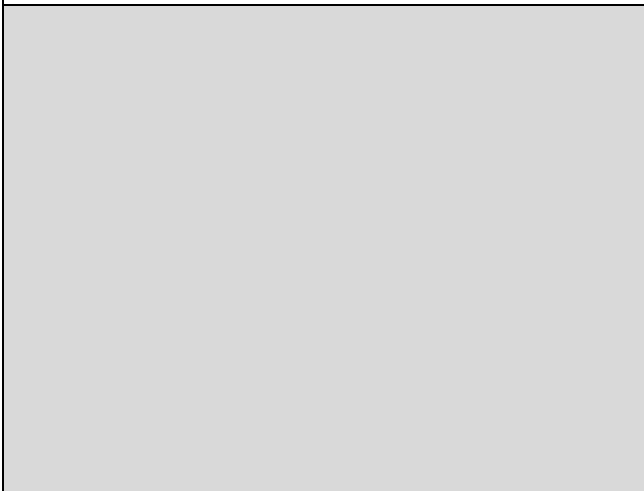
802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -75.79dBm

802.11ax (HE160) / CH47 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6260MHz (Upper edge)
Threshold Level (TL) = -76.79dBm

802.11ax (HE160) / CH47 (Upper edge)
Transmit when the interferer is 1dB lower.

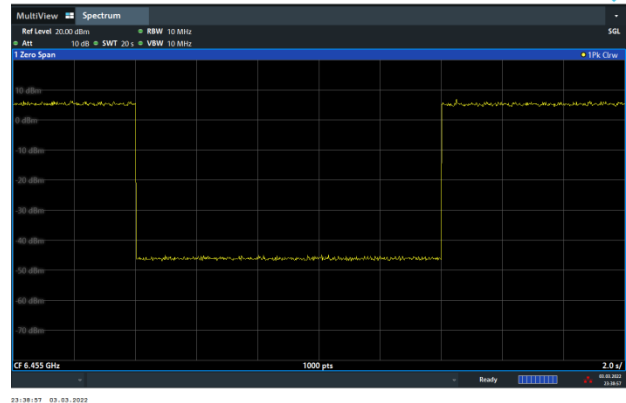
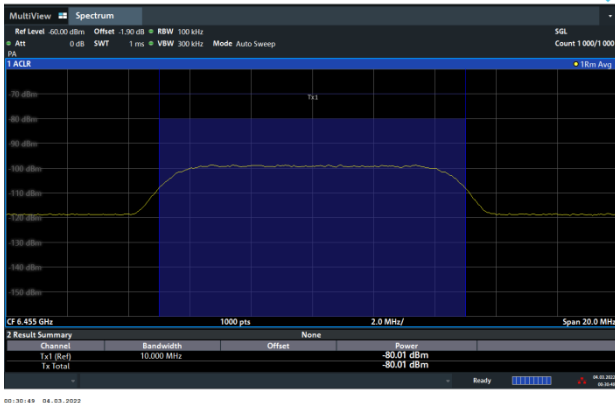




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

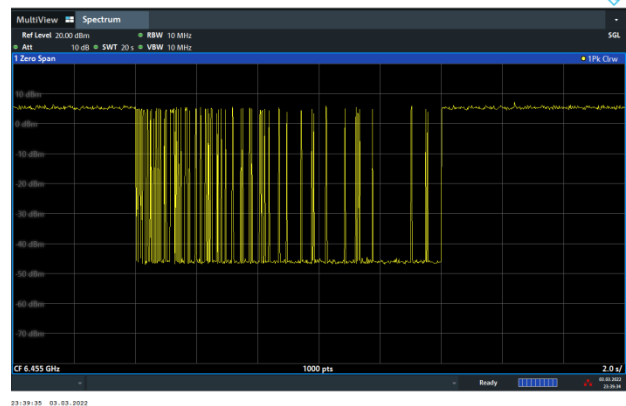
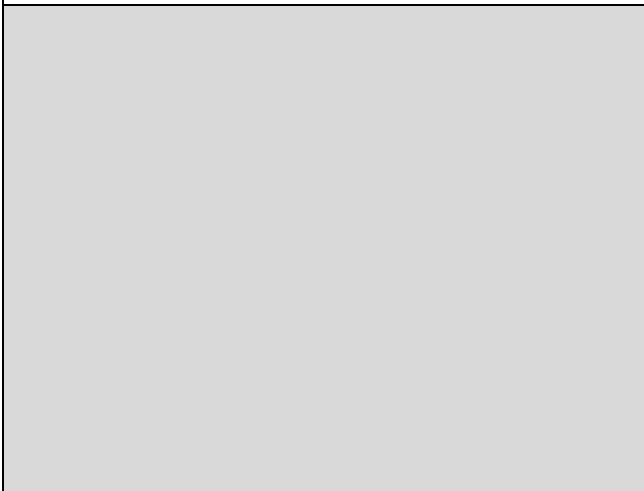
802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -80.01dBm

802.11ax (HE20) / CH101
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6455MHz
Threshold Level (TL) = -81.01dBm

802.11ax (HE20) / CH101
Transmit when the interferer is 1dB lower.

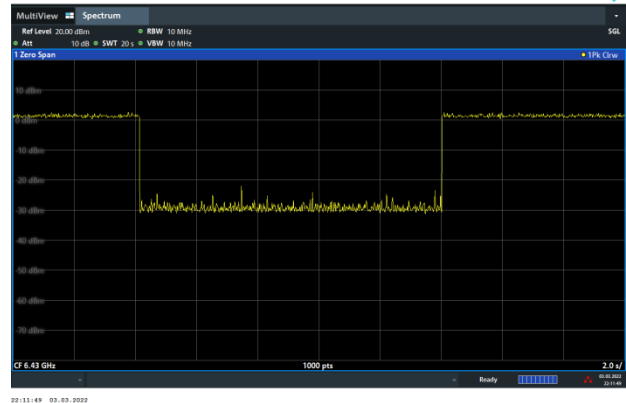
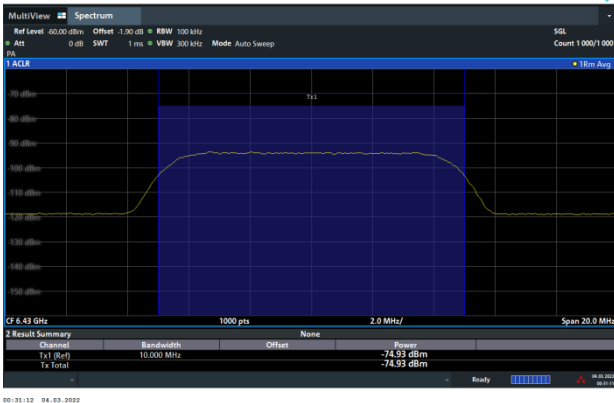




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

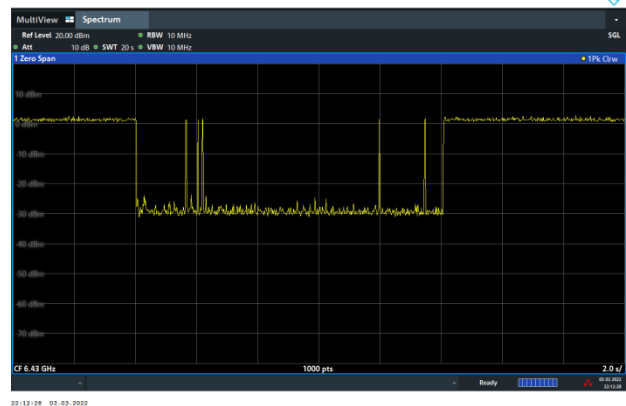
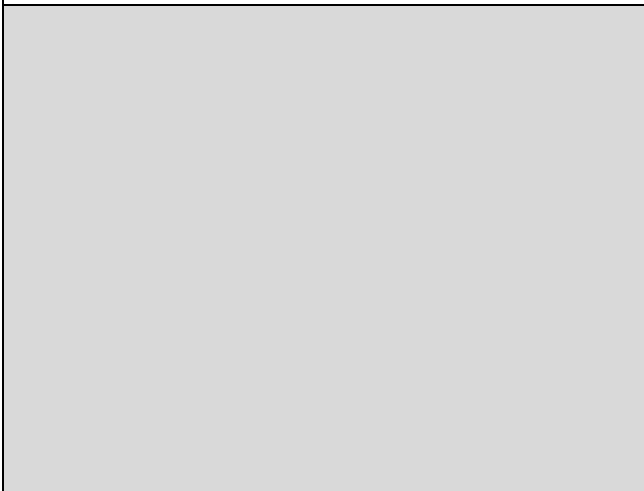
802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -74.93dBm

802.11ax (HE160) / CH111 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6430MHz (Lower edge)
Threshold Level (TL) = -75.93dBm

802.11ax (HE160) / CH111 (Lower edge)
Transmit when the interferer is 1dB lower.



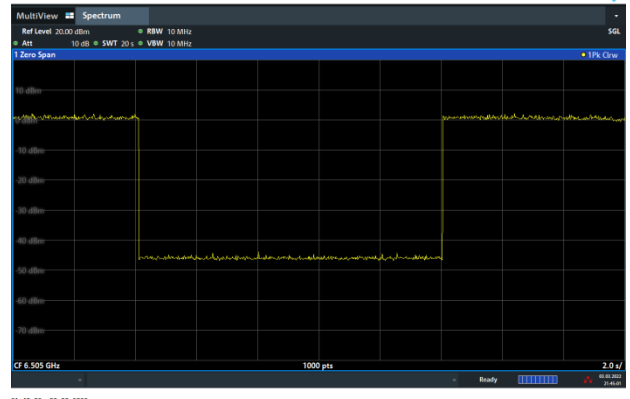
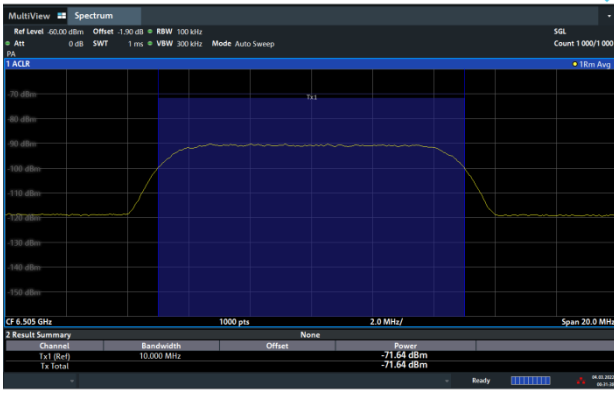


Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -71.64dBm

802.11ax (HE160) / CH111 (Middle)

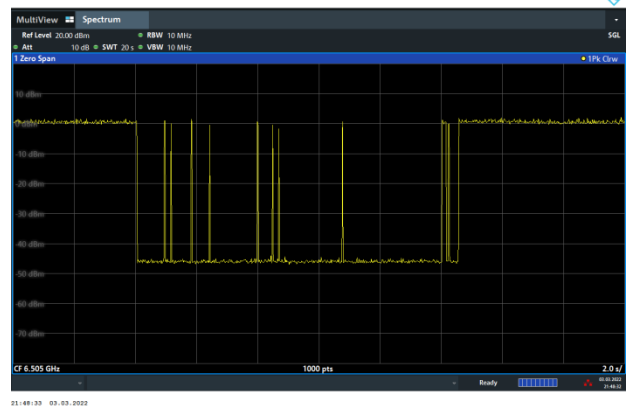
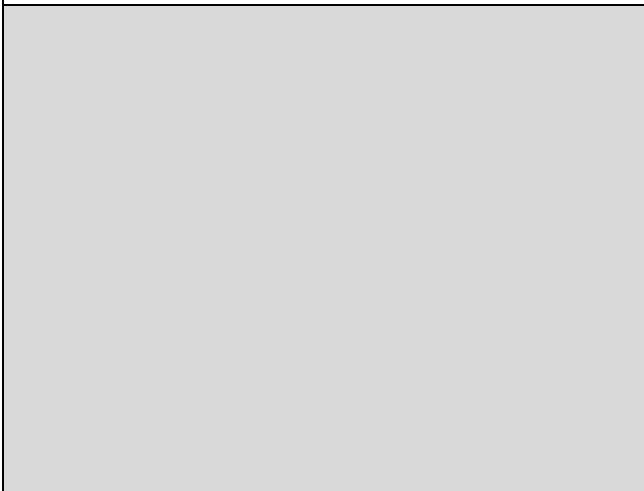
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6505MHz (Middle)
Threshold Level (TL) = -72.64dBm

802.11ax (HE160) / CH111 (Middle)

Transmit when the interferer is 1dB lower.

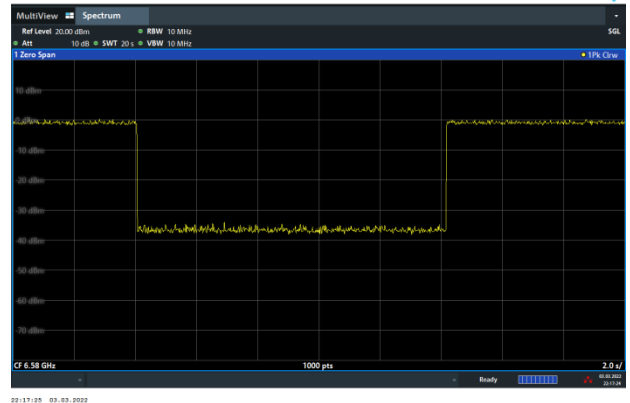
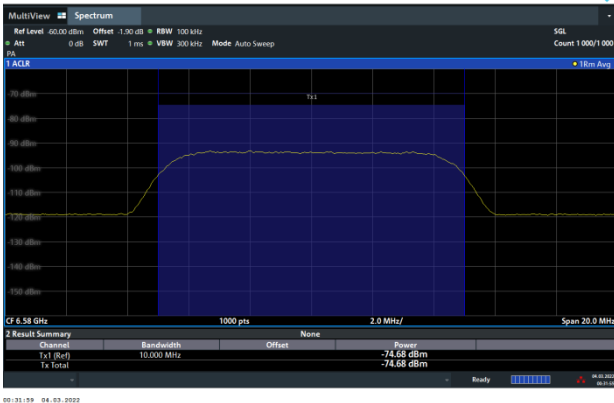




Contention Based Protocol Result Plots on U-NII 6 (AWGN Interference)

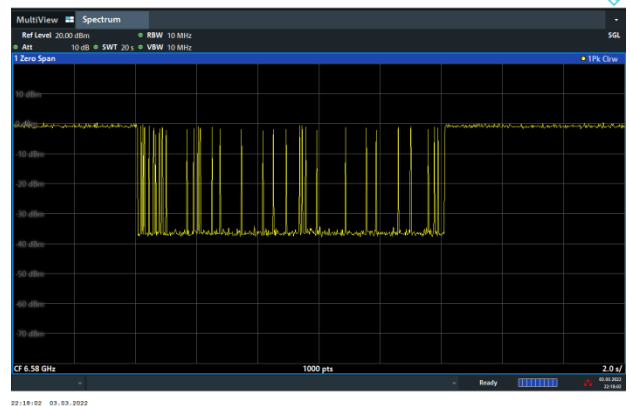
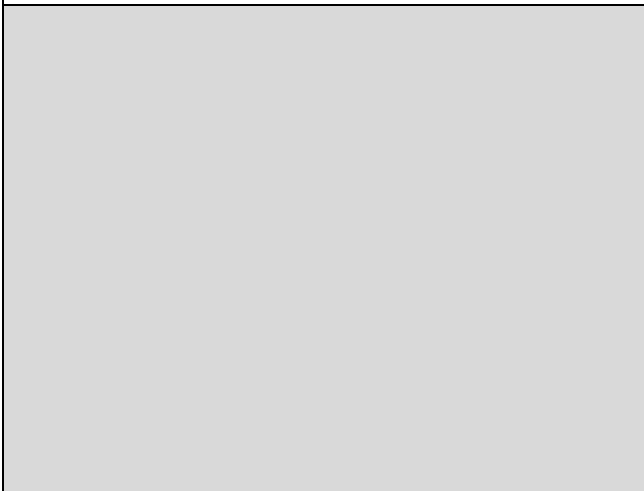
802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -74.68dBm

802.11ax (HE160) / CH111 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6580MHz (Upper edge)
Threshold Level (TL) = -75.68dBm

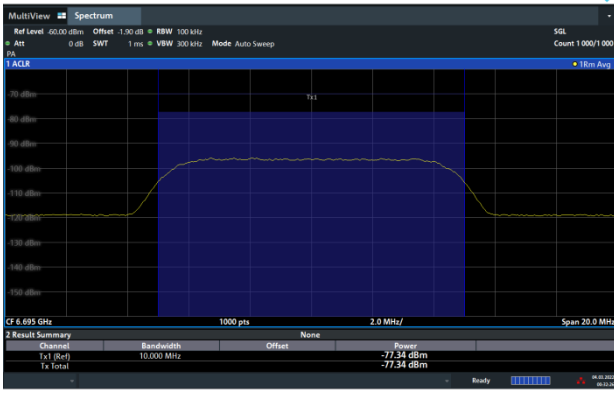
802.11ax (HE160) / CH111 (Upper edge)
Transmit when the interferer is 1dB lower.



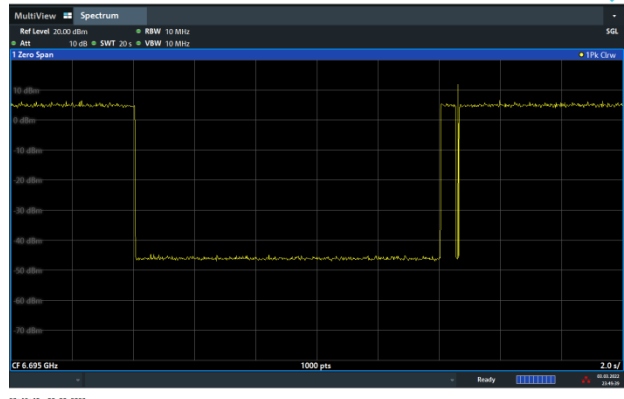


Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

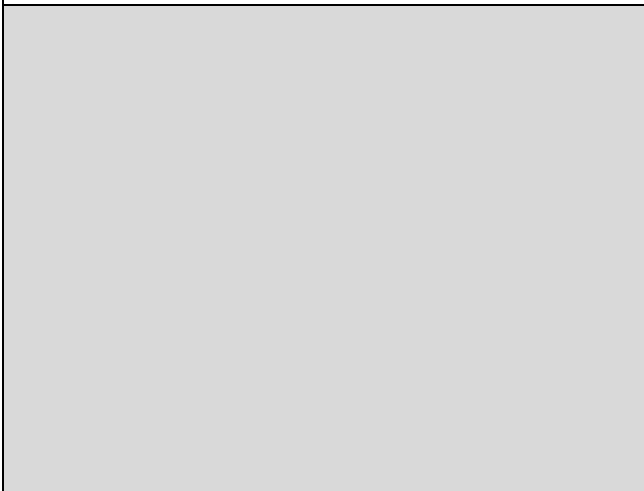
802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -77.34dBm



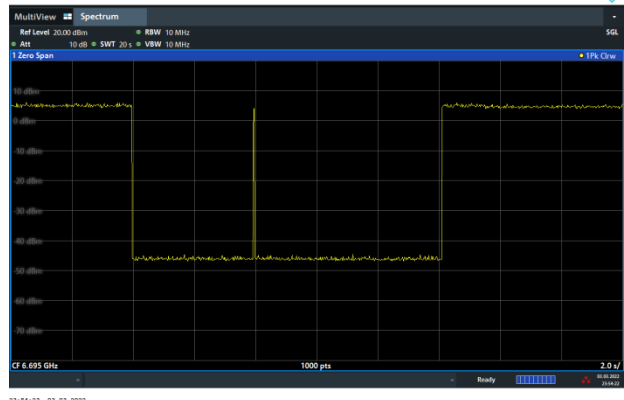
802.11ax (HE20) / CH149
Test result is pass due to no transmission occur.



802.11ax (HE20) / 6695MHz
Threshold Level (TL) = -78.34dBm



802.11ax (HE20) / CH149
Transmit when the interferer is 1dB lower.

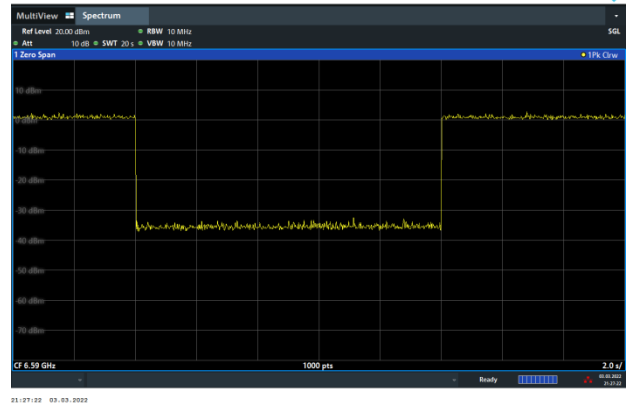
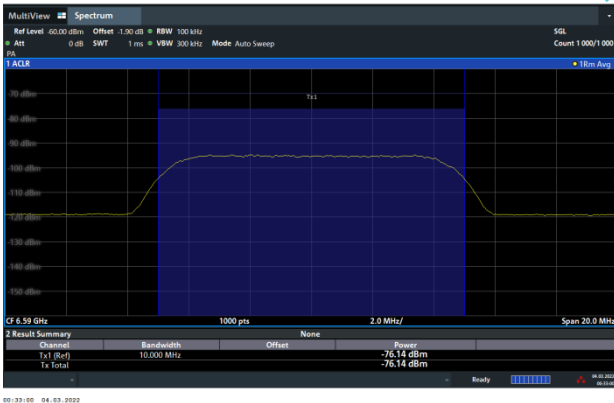




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

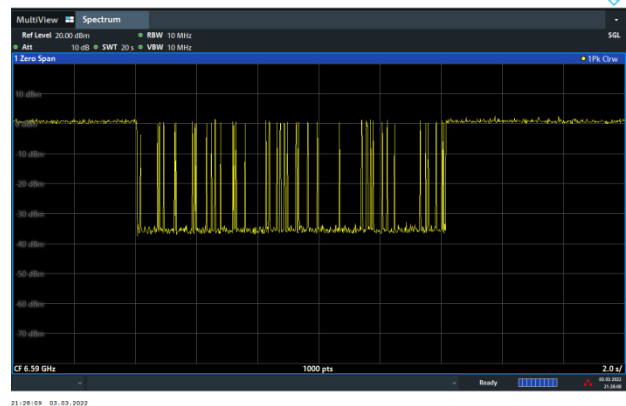
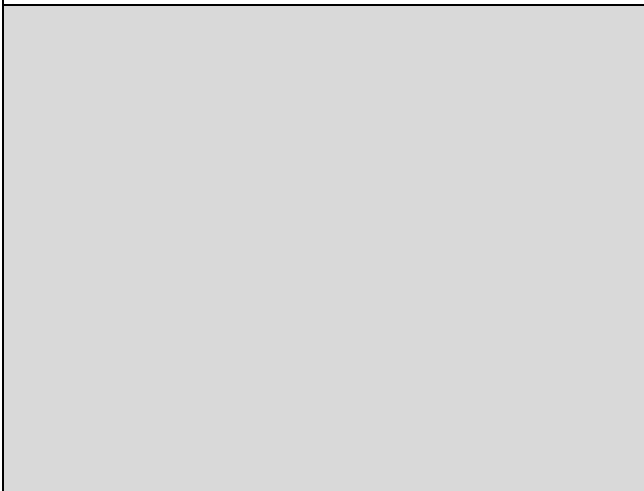
802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -76.14dBm

802.11ax (HE160) / CH143 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6590MHz (Lower edge)
Threshold Level (TL) = -77.14dBm

802.11ax (HE160) / CH143 (Lower edge)
Transmit when the interferer is 1dB lower.

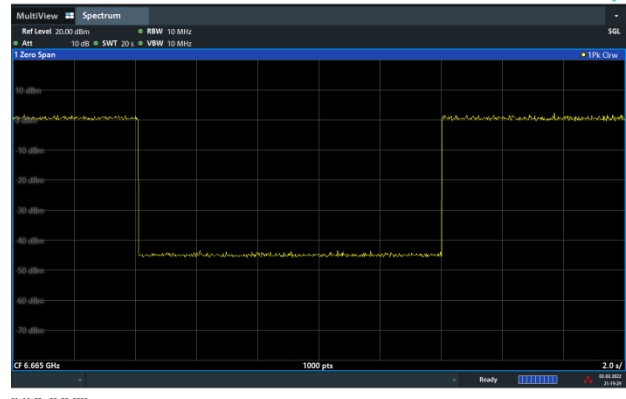
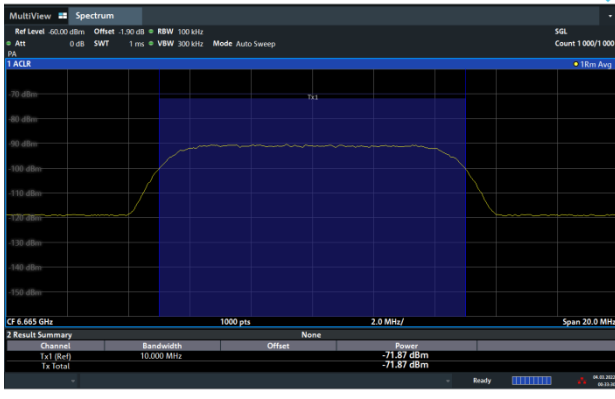




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

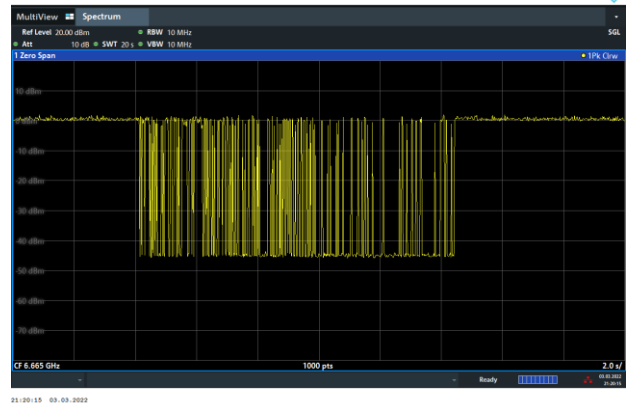
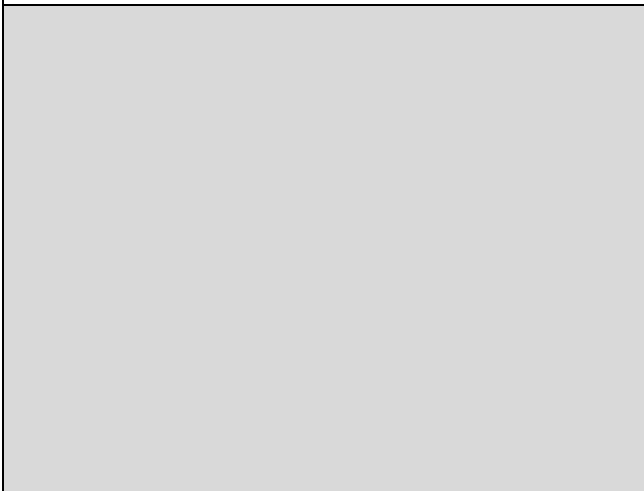
802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -71.87dBm

802.11ax (HE160) / CH143 (Middle)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6665MHz (Middle)
Threshold Level (TL) = -72.87dBm

802.11ax (HE160) / CH143 (Middle)
Transmit when the interferer is 1dB lower.

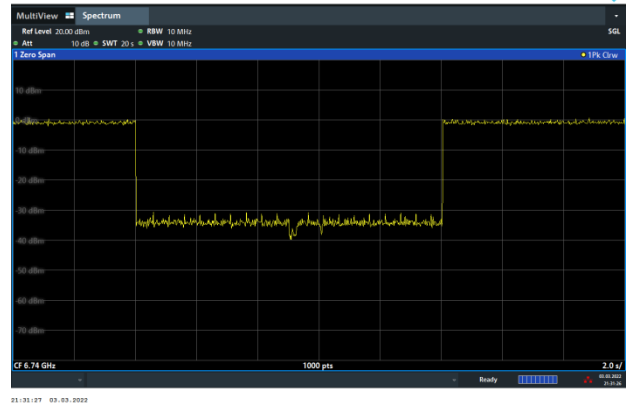
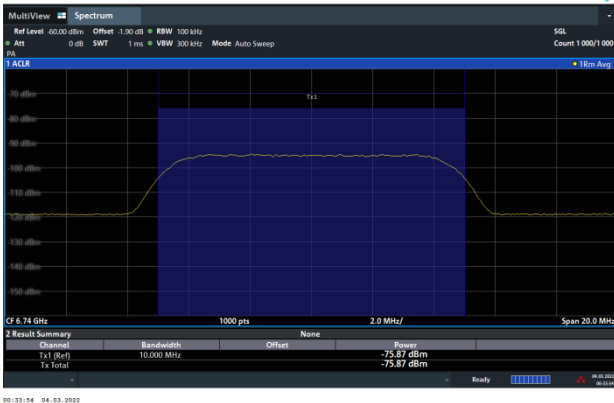




Contention Based Protocol Result Plots on U-NII 7 (AWGN Interference)

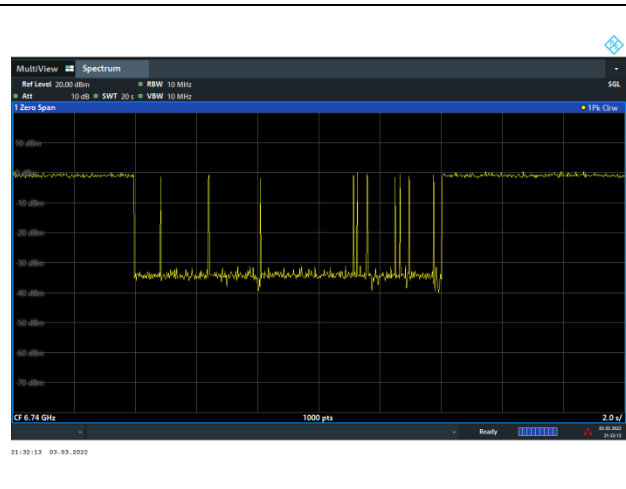
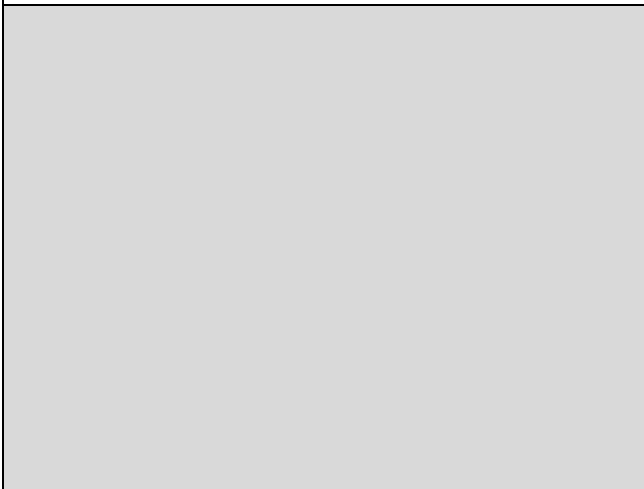
802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -75.87dBm

802.11ax (HE160) / CH143 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6740MHz (Upper edge)
Threshold Level (TL) = -76.87dBm

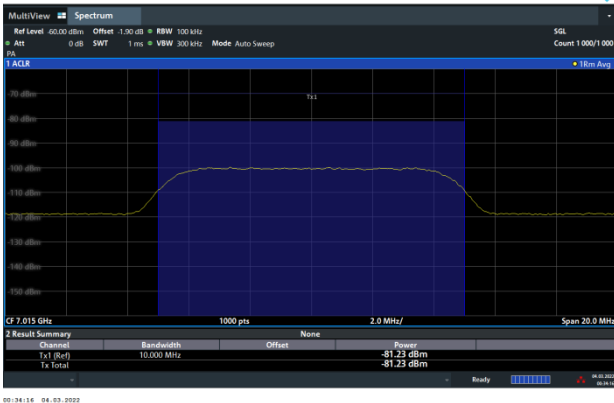
802.11ax (HE160) / CH143 (Upper edge)
Transmit when the interferer is 1dB lower.



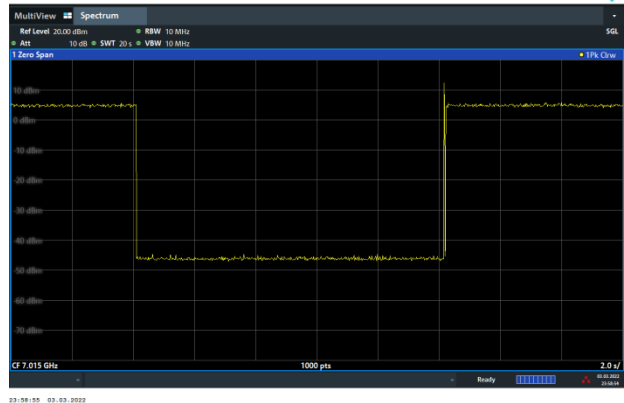


Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

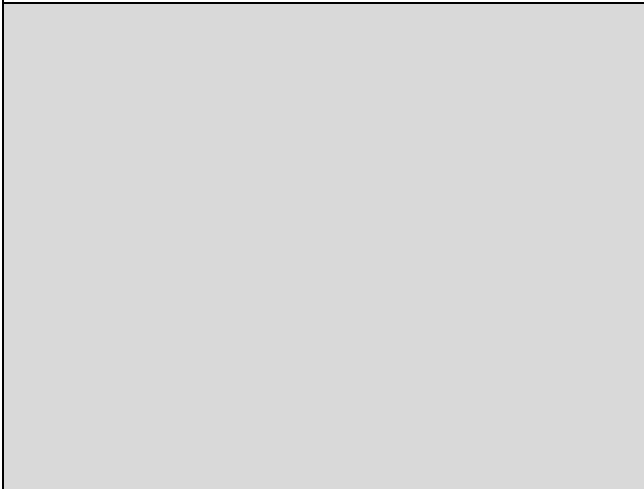
802.11ax (HE20) / 7015MHz
Threshold Level (TL) = --81.23dBm



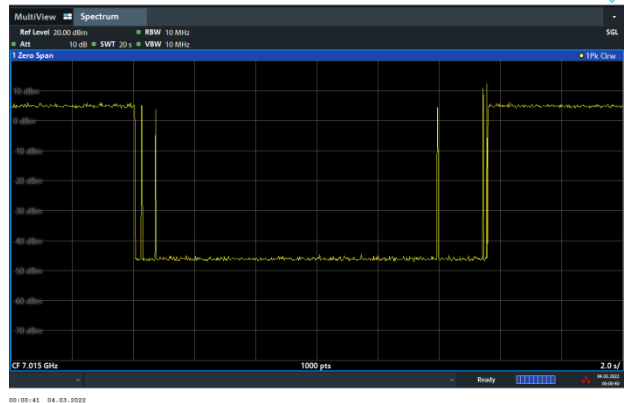
802.11ax (HE20) / CH213
Test result is pass due to no transmission occur.



802.11ax (HE20) / 7015MHz
Threshold Level (TL) = --82.23dBm



802.11ax (HE20) / CH213
Transmit when the interferer is 1dB lower.

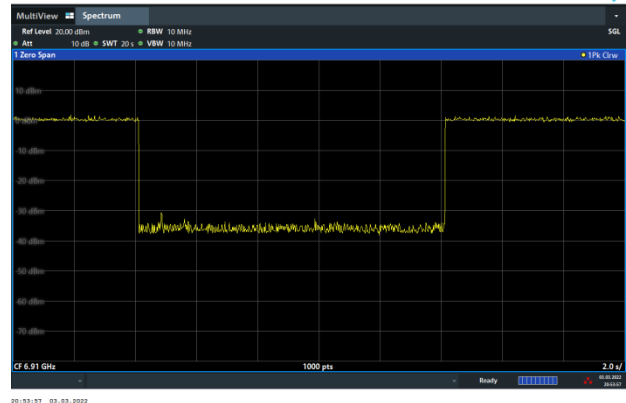
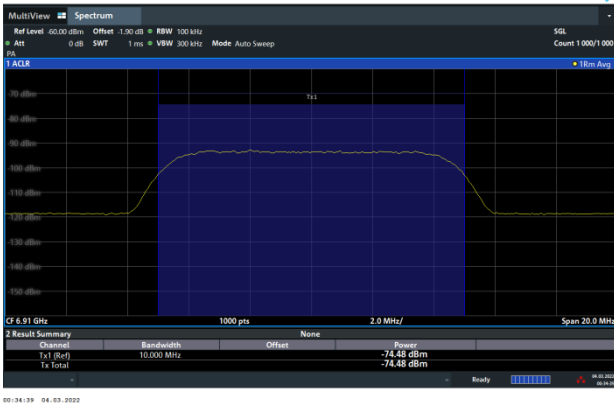




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

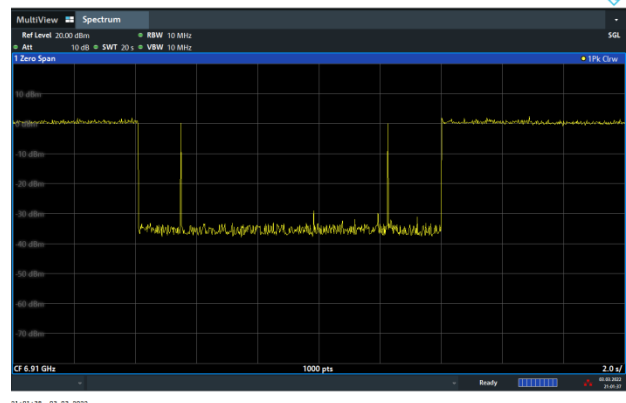
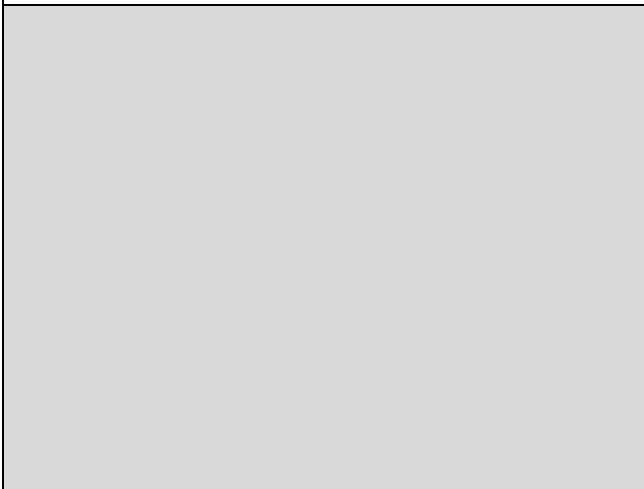
802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = - 74.48dBm

802.11ax (HE160) / CH207 (Lower edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6910MHz (Lower edge)
Threshold Level (TL) = -75.48dBm

802.11ax (HE160) / CH207 (Lower edge)
Transmit when the interferer is 1dB lower.

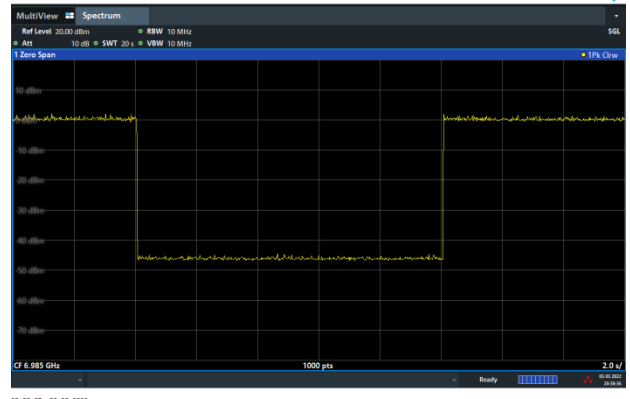
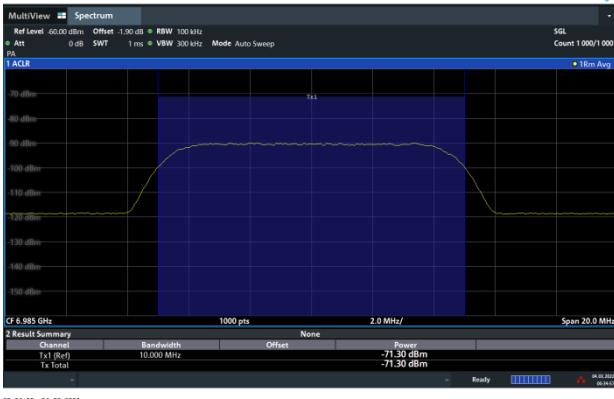




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

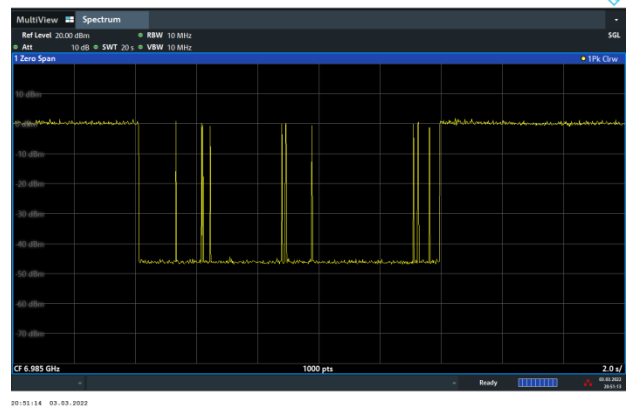
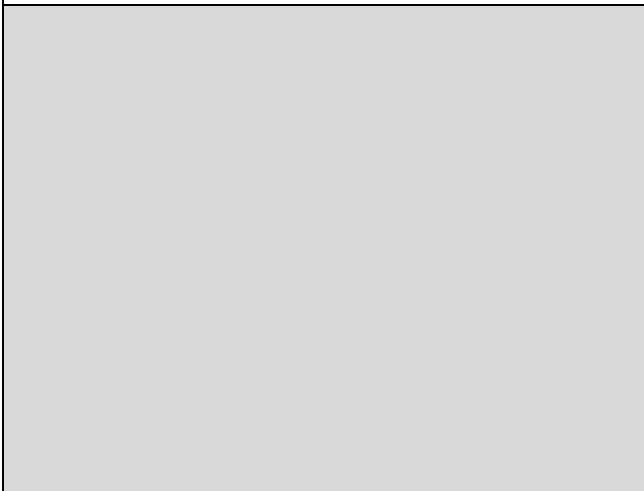
802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -71.3dBm

802.11ax (HE160) / CH207 (Middle)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 6985MHz (Middle)
Threshold Level (TL) = -72.3dBm

802.11ax (HE160) / CH207 (Middle)
Transmit when the interferer is 1dB lower.

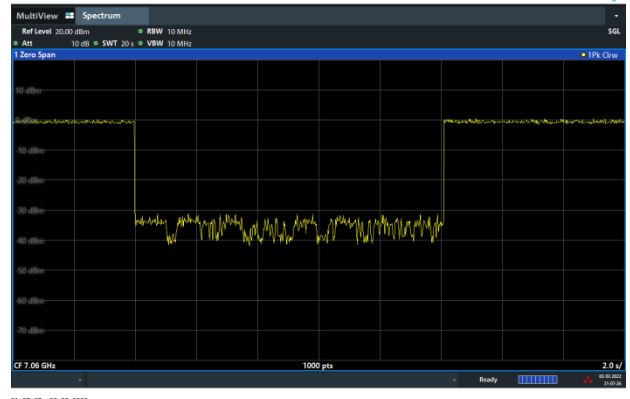
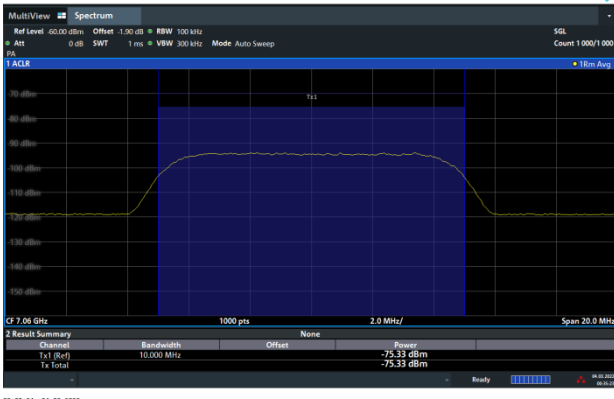




Contention Based Protocol Result Plots on U-NII 8 (AWGN Interference)

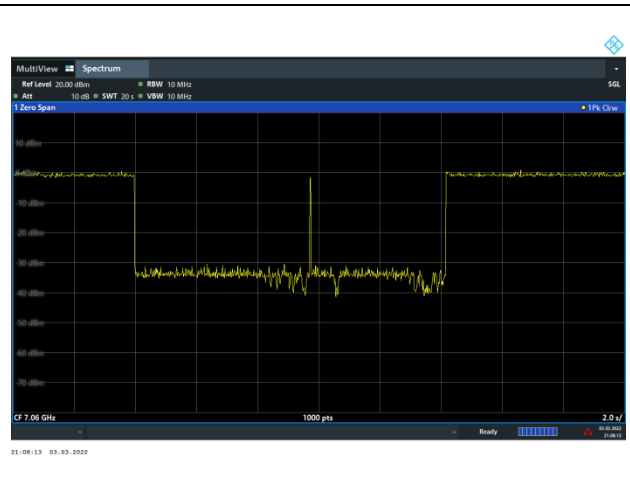
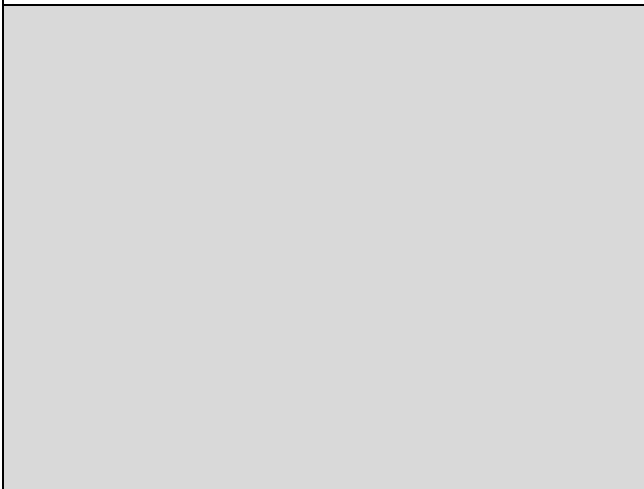
802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -76.33dBm

802.11ax (HE160) / CH207 (Upper edge)
Test result is pass due to no transmission occur.



802.11ax (HE160) / 7060MHz (Upper edge)
Threshold Level (TL) = -77.33dBm

802.11ax (HE160) / CH207 (Upper edge)
Transmit when the interferer is 1dB lower.



3.6 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.6.1 Limit of Unwanted Emissions

- (1) For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz.

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27 (RMS)	68.3
- 7 (Peak)	88.3

According 987594 D02 U-NII 6GHz EMC Measurement v01 section G:

Unwanted emissions outside of restricted bands are measured with a RMS detector.

In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts)}$$

3.6.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.



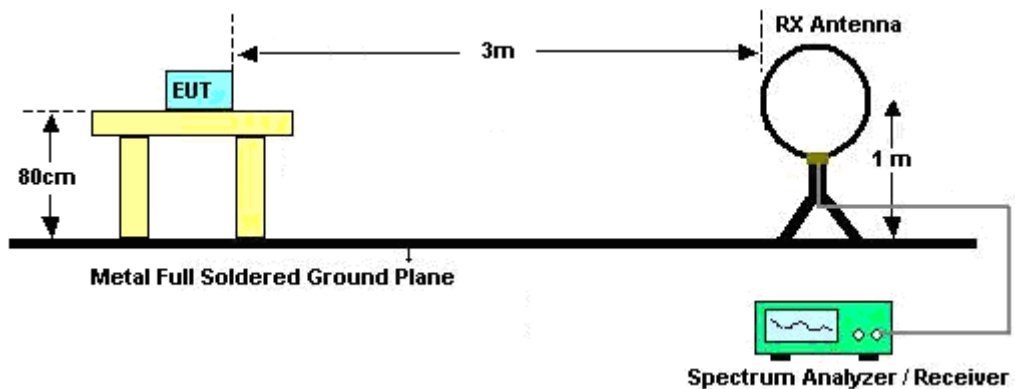
3.6.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as "-".

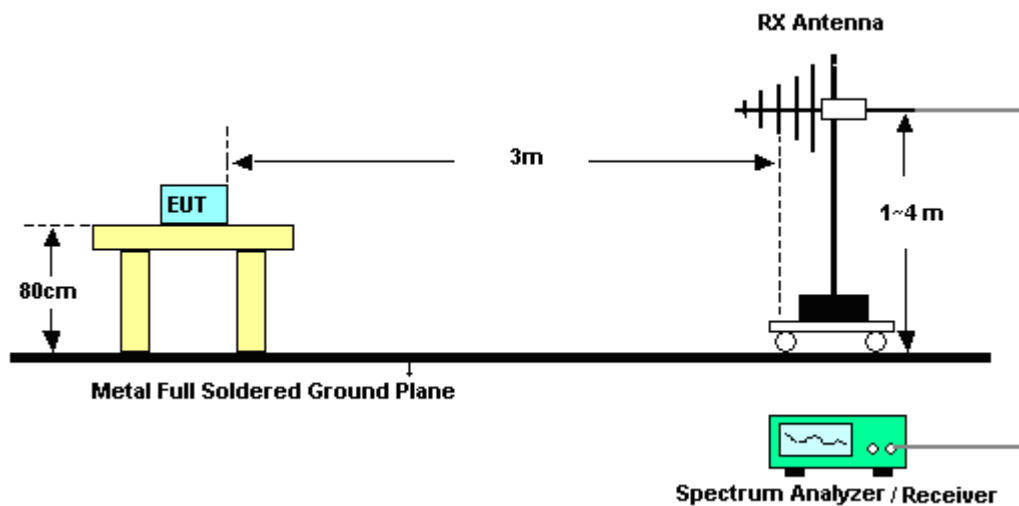
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“..

3.6.4 Test Setup

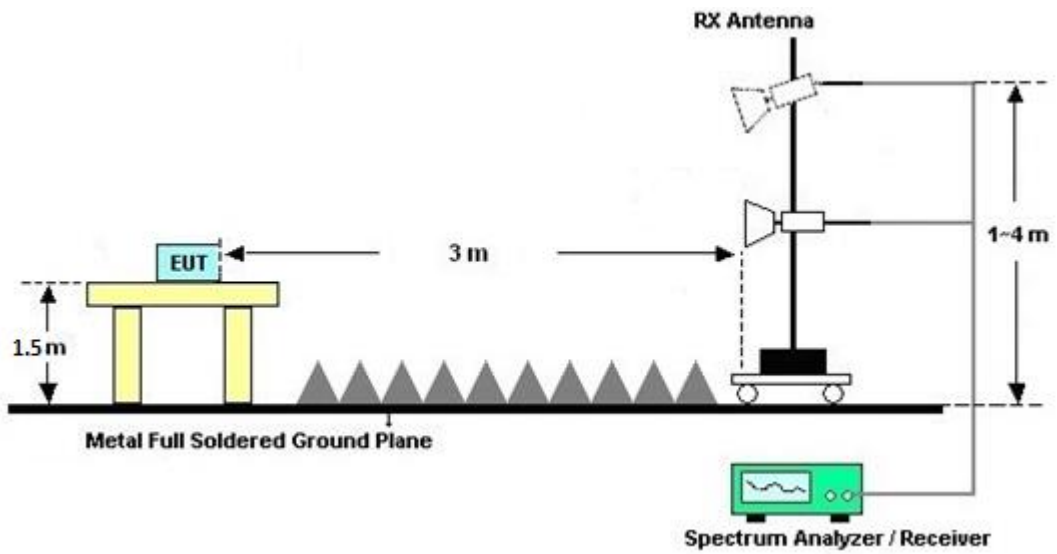
For radiated emissions below 30MHz



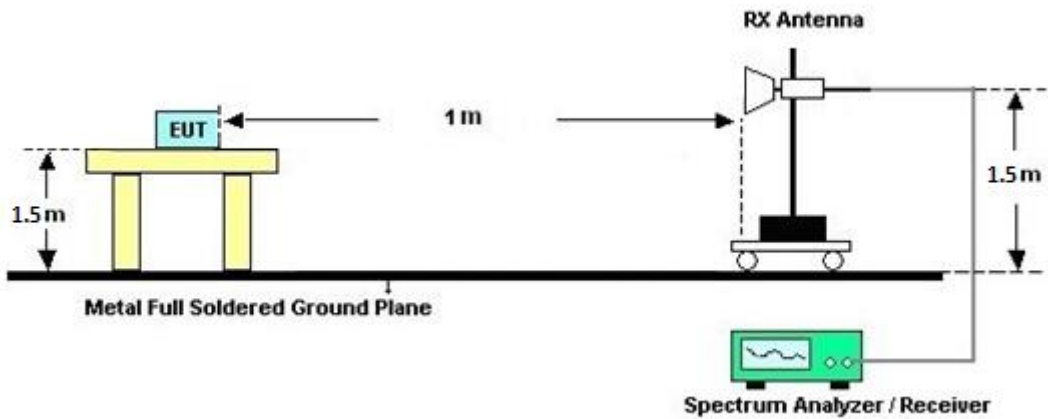
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz





3.6.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.6.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.6.7 Duty Cycle

Please refer to Appendix E.

3.6.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C and D.

3.7 AC Conducted Emission Measurement

3.7.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

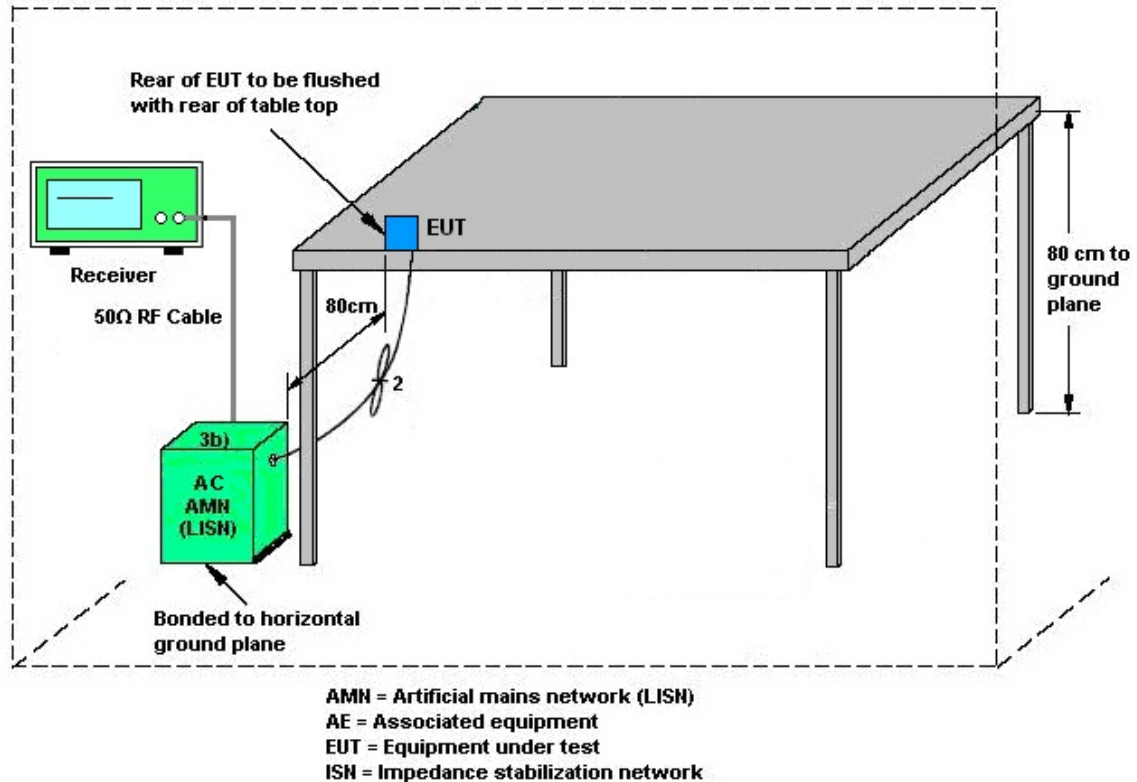
3.7.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.7.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.2 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with

G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e.,

F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The directional gain “DG” is calculated as following table.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k / 20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k th antenna.



	Chain 1 (dBi)	Chain 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	3.33	3.28	3.33	6.32
6425 MHz ~ 6525 MHz	3.47	2.54	3.47	6.03
6525 MHz ~ 6875 MHz	3.71	3.42	3.71	6.58
6875 MHz ~ 7125 MHz	3.71	3.42	3.71	6.58

Calculation example:

For the band 5925~6425MHz, the DG for PSD is derived from formula is

$$10 \times \log \left\{ \left[10^{(3.33\text{dBi} / 20)} + 10^{(3.28 \text{ dBi} / 20)} \right]^2 / 2 \right\}$$

= 6.32 dBi



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9010B	MY60241055	10Hz~44GHz	Jul. 12, 2021	Feb. 22, 2022~ Feb. 24, 2022	Jul. 11, 2022	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 03, 2022	Feb. 22, 2022~ Feb. 24, 2022	Jan. 02, 2023	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 15, 2021	Feb. 22, 2022~ Feb. 24, 2022	Nov. 14, 2022	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 22, 2021	Feb. 22, 2022~ Feb. 24, 2022	Jun. 21, 2022	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Jan. 07, 2022	Feb. 22, 2022~ Feb. 24, 2022	Jan. 06, 2023	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 17, 2021	Feb. 22, 2022~ Feb. 24, 2022	Oct. 16, 2022	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-02294	1GHz~18GHz	Jun. 23, 2021	Feb. 22, 2022~ Feb. 24, 2022	Jun. 22, 2022	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA9170	00993	18GHz-40GHz	Nov. 30, 2021	Feb. 22, 2022~ Feb. 24, 2022	Nov. 29, 2022	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 09, 2021	Feb. 22, 2022~ Feb. 24, 2022	Mar. 08, 2022	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 19, 2022	Feb. 22, 2022~ Feb. 24, 2022	Jan. 18, 2023	Radiation (03CH20-HY)
Software	Audix	E3 6.2009-8-24	RK-002156	N/A	N/A	Feb. 22, 2022~ Feb. 24, 2022	N/A	Radiation (03CH20-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Feb. 22, 2022~ Feb. 24, 2022	N/A	Radiation (03CH20-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Feb. 22, 2022~ Feb. 24, 2022	N/A	Radiation (03CH20-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Feb. 22, 2022~ Feb. 24, 2022	N/A	Radiation (03CH20-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Feb. 21, 2022	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Feb. 21, 2022	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 29, 2021	Feb. 21, 2022	Oct. 28, 2022	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 17, 2021	Feb. 21, 2022	Mar. 16, 2022	Conduction (CO07-HY)
AC LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 16, 2021	Feb. 21, 2022	Nov. 16, 2022	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2021	Feb. 21, 2022	Oct. 30, 2022	Conduction (CO07-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 09, 2021	Feb. 21, 2022	Mar. 08, 2022	Conduction (CO07-HY)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 16, 2021	Feb. 18, 2022~ Feb. 24, 2022	Nov. 15, 2022	Conducted (TH05-HY)
Power Sensor	DARE	RPR3006W #010	RPR6W-2101 002(NO:123)	10MHz~8GHz	Jan. 13, 2022	Feb. 18, 2022~ Feb. 24, 2022	Jan. 12, 2023	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101566	10Hz~40GHz	Aug. 30, 2021	Feb. 18, 2022~ Feb. 24, 2022	Aug. 29, 2022	Conducted (TH05-HY)
Switch Control Manframe	E-IUSTRUMENT	ETF-1405-0	EC1900067 (BOX7)	N/A	Aug. 12, 2021	Feb. 18, 2022~ Feb. 24, 2022	Aug. 11, 2022	Conducted (TH05-HY)
Signal Generator (Interferer)	Rohde & Schwarz	SMW200A	109425	100kHz~7.5GHz	Jan. 13, 2022	Mar. 03, 2022~ Mar. 04, 2022	Jan. 12, 2023	CBP (DF02-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101048	10Hz~44GHz	Apr. 20, 2021	Mar. 03, 2022~ Mar. 04, 2022	Apr. 19, 2022	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 1	0.5GHz-18GHz	Calibration from System	Mar. 03, 2022~ Mar. 04, 2022	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	2Way Divider	DCMB1KW7A 2	0.5GHz-18GHz	Calibration from System	Mar. 03, 2022~ Mar. 04, 2022	Calibration from System	CBP (DF02-HY)
Coupler	Woken	10dB 30W SMA	DOM5CIW3A 1	0.5-18GHz	Calibration from System	Mar. 03, 2022~ Mar. 04, 2022	Calibration from System	CBP (DF02-HY)
Power Divider	Woken	3Way SMA Power Divider Rated to 20W	STI08-0010(# 2)	2GHz-8GHz	Calibration from System	Mar. 03, 2022~ Mar. 04, 2022	Calibration from System	CBP (DF02-HY)



5 Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.9 dB
---	--------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
---	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
---	--------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Benny Ku/Junyu Jhou	Temperature:	21~25	°C
Test Date:	2022/2/18~24	Relative Humidity:	51~54	%

Remark: For Conducted Test Items, Ant. 1 means Chain 1 (Aux.) and Ant. 2 means Chain 2 (Main).

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	5955	16.38	16.38	19.40	19.40	
11a	6Mbps	2	6195	16.38	16.38	19.35	19.50	
11a	6Mbps	2	6415	16.38	16.43	19.40	19.40	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	5955	-0.20	0.00	2.91	3.33	6.24	24.00	Pass	
11a	6Mbps	2	6195	-0.90	-0.20	2.47	3.33	5.80	24.00	Pass	
11a	6Mbps	2	6415	-0.70	0.70	3.07	3.33	6.40	24.00	Pass	
HT20	MCS0	2	5955	-0.10	0.30	3.11	3.33	6.44	24.00	Pass	
HT20	MCS0	2	6195	-0.40	-0.80	2.41	3.33	5.74	24.00	Pass	
HT20	MCS0	2	6415	-0.60	0.40	2.94	3.33	6.27	24.00	Pass	
HT40	MCS0	2	5965	2.40	3.30	5.88	3.33	9.21	24.00	Pass	
HT40	MCS0	2	6205	3.20	3.20	6.21	3.33	9.54	24.00	Pass	
HT40	MCS0	2	6405	3.10	3.70	6.42	3.33	9.75	24.00	Pass	
VHT20	MCS0	2	5955	-0.10	0.30	3.11	3.33	6.44	24.00	Pass	
VHT20	MCS0	2	6195	-0.40	-0.80	2.41	3.33	5.74	24.00	Pass	
VHT20	MCS0	2	6415	-0.60	0.40	2.94	3.33	6.27	24.00	Pass	
VHT40	MCS0	2	5965	2.40	3.30	5.88	3.33	9.21	24.00	Pass	
VHT40	MCS0	2	6205	3.20	3.20	6.21	3.33	9.54	24.00	Pass	
VHT40	MCS0	2	6405	3.10	3.70	6.42	3.33	9.75	24.00	Pass	
VHT80	MCS0	2	5985	7.00	6.20	9.63	3.33	12.96	24.00	Pass	
VHT80	MCS0	2	6225	6.70	5.90	9.33	3.33	12.66	24.00	Pass	
VHT80	MCS0	2	6385	6.40	6.10	9.26	3.33	12.59	24.00	Pass	
VHT160	MCS0	2	6025	9.20	7.70	11.52	3.33	14.85	24.00	Pass	
VHT160	MCS0	2	6185	8.70	7.70	11.24	3.33	14.57	24.00	Pass	
VHT160	MCS0	2	6345	8.50	8.50	11.51	3.33	14.84	24.00	Pass	

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	5955			-7.58	6.32	-1.26	-1.00	Pass	
11a	6Mbps	2	6195			-7.73	6.32	-1.41	-1.00	Pass	
11a	6Mbps	2	6415			-8.00	6.32	-1.68	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6435	16.48	16.43	19.40	19.40	
11a	6Mbps	2	6475	16.38	16.38	19.35	19.45	
11a	6Mbps	2	6515	16.38	16.38	19.35	19.45	

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	6435	-0.50	1.00	3.32	3.47		6.79	24.00	Pass
11a	6Mbps	2	6475	-0.10	0.70	3.33	3.47		6.80	24.00	Pass
11a	6Mbps	2	6515	-0.20	0.80	3.34	3.47		6.81	24.00	Pass
HT20	MCS0	2	6435	-0.30	1.20	3.52	3.47		6.99	24.00	Pass
HT20	MCS0	2	6475	-0.10	0.80	3.38	3.47		6.85	24.00	Pass
HT20	MCS0	2	6515	-0.20	0.20	3.01	3.47		6.48	24.00	Pass
HT40	MCS0	2	6445	4.30	4.30	7.31	3.47		10.78	24.00	Pass
HT40	MCS0	2	6485	4.30	3.80	7.07	3.47		10.54	24.00	Pass
VHT20	MCS0	2	6435	-0.30	1.20	3.52	3.47		6.99	24.00	Pass
VHT20	MCS0	2	6475	-0.10	0.80	3.38	3.47		6.85	24.00	Pass
VHT20	MCS0	2	6515	-0.20	0.20	3.01	3.47		6.48	24.00	Pass
VHT40	MCS0	2	6445	4.30	4.30	7.31	3.47		10.78	24.00	Pass
VHT40	MCS0	2	6485	4.30	3.80	7.07	3.47		10.54	24.00	Pass
VHT80	MCS0	2	6465	7.10	6.90	10.01	3.47		13.48	24.00	Pass

FCC Band VI straddle channel MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HT40	MCS0	2	6525	4.30	3.10	6.75	3.47		10.22	24.00	Pass
VHT40	MCS0	2	6525	4.30	3.10	6.75	3.47		10.22	24.00	Pass
VHT160	MCS0	2	6505	9.50	8.80	12.17	3.47		15.64	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VI MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6435			-7.35		6.03	-1.32	-1.00	Pass
11a	6Mbps	2	6475			-7.40		6.03	-1.37	-1.00	Pass
11a	6Mbps	2	6515			-7.67		6.03	-1.64	-1.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6535	16.38	16.33	19.45	19.35	
11a	6Mbps	2	6695	16.38	16.38	19.35	19.35	
11a	6Mbps	2	6855	16.53	16.43	19.65	19.40	

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	6535	-0.80	-0.40	2.41	3.71		6.12	24.00	Pass
11a	6Mbps	2	6695	-1.80	-0.50	1.91	3.71		5.62	24.00	Pass
11a	6Mbps	2	6855	-2.20	-0.50	1.74	3.71		5.45	24.00	Pass
HT20	MCS0	2	6535	0.40	1.00	3.72	3.71		7.43	24.00	Pass
HT20	MCS0	2	6695	-1.50	-0.10	2.27	3.71		5.98	24.00	Pass
HT20	MCS0	2	6855	-1.60	0.20	2.40	3.71		6.11	24.00	Pass
HT40	MCS0	2	6565	2.40	2.90	5.67	3.71		9.38	24.00	Pass
HT40	MCS0	2	6685	3.30	3.10	6.21	3.71		9.92	24.00	Pass
HT40	MCS0	2	6845	2.30	2.70	5.51	3.71		9.22	24.00	Pass
VHT20	MCS0	2	6535	0.40	1.00	3.72	3.71		7.43	24.00	Pass
VHT20	MCS0	2	6695	-1.50	-0.10	2.27	3.71		5.98	24.00	Pass
VHT20	MCS0	2	6855	-1.60	0.20	2.40	3.71		6.11	24.00	Pass
VHT40	MCS0	2	6565	2.40	2.90	5.67	3.71		9.38	24.00	Pass
VHT40	MCS0	2	6685	3.30	3.10	6.21	3.71		9.92	24.00	Pass
VHT40	MCS0	2	6845	2.30	2.70	5.51	3.71		9.22	24.00	Pass
VHT80	MCS0	2	6625	6.50	5.90	9.22	3.71		12.93	24.00	Pass
VHT80	MCS0	2	6705	5.90	6.00	8.96	3.71		12.67	24.00	Pass
VHT80	MCS0	2	6785	6.10	6.40	9.26	3.71		12.97	24.00	Pass
VHT160	MCS0	2	6665	8.40	8.60	11.51	3.71		15.22	24.00	Pass
VHT160	MCS0	2	6825	8.30	8.60	11.46	3.71		15.17	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6535			-7.79		6.58	-1.21	-1.00	Pass
11a	6Mbps	2	6695			-7.74		6.58	-1.16	-1.00	Pass
11a	6Mbps	2	6855			-7.85		6.58	-1.28	-1.00	Pass

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO								
Mod.	Data Rate	NTX	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
				Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	6895	16.48	16.43	19.50	19.55	
11a	6Mbps	2	6995	16.48	16.43	19.20	19.20	
11a	6Mbps	2	7115	16.43	17.33	19.45	19.30	

TEST RESULTS DATA
EIRP Power Table

FCC Band VIII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2			
11a	6Mbps	2	6895	-1.00	-0.40	2.32	3.71		6.03	24.00	Pass
11a	6Mbps	2	6995	-1.20	-0.40	2.23	3.71		5.94	24.00	Pass
11a	6Mbps	2	7115	-1.40	-0.40	2.14	3.71		5.85	24.00	Pass
HT20	MCS0	2	6895	-0.70	0.10	2.73	3.71		6.44	24.00	Pass
HT20	MCS0	2	6995	-1.50	-0.20	2.21	3.71		5.92	24.00	Pass
HT20	MCS0	2	7115	-10.70	-10.50	-7.59	3.71		-3.88	24.00	Pass
HT40	MCS0	2	6925	3.50	2.50	6.04	3.71		9.75	24.00	Pass
HT40	MCS0	2	7005	3.10	2.40	5.77	3.71		9.48	24.00	Pass
HT40	MCS0	2	7085	1.50	1.40	4.46	3.71		8.17	24.00	Pass
VHT20	MCS0	2	6895	-0.70	0.10	2.73	3.71		6.44	24.00	Pass
VHT20	MCS0	2	6995	-1.50	-0.20	2.21	3.71		5.92	24.00	Pass
VHT20	MCS0	2	7115	-10.70	-10.50	-7.59	3.71		-3.88	24.00	Pass
VHT40	MCS0	2	6925	3.50	2.50	6.04	3.71		9.75	24.00	Pass
VHT40	MCS0	2	7005	3.10	2.40	5.77	3.71		9.48	24.00	Pass
VHT40	MCS0	2	7085	1.50	1.40	4.46	3.71		8.17	24.00	Pass
VHT80	MCS0	2	6945	6.60	5.70	9.18	3.71		12.89	24.00	Pass
VHT80	MCS0	2	7025	6.60	5.80	9.23	3.71		12.94	24.00	Pass
VHT80	MCS0	2	0	6.20	5.60	8.92	3.71		12.63	24.00	Pass
VHT160	MCS0	2	6985	8.20	8.40	11.31	3.71		15.02	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO											
Mod.	Data Rate	NTX	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
				Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
11a	6Mbps	2	6895			-8.08	6.58	-1.50	-1.00	Pass	
11a	6Mbps	2	6995			-7.98	6.58	-1.40	-1.00	Pass	
11a	6Mbps	2	7115			-7.90	6.58	-1.32	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band V MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	5955	Full	19.33	19.33	21.30	21.30	
HE20	MCS0	2	6195	Full	19.33	19.43	21.50	20.95	
HE20	MCS0	2	6415	Full	19.38	19.23	21.10	21.05	
HE40	MCS0	2	5965	Full	39.26	38.86	40.14	40.23	
HE40	MCS0	2	6205	Full	38.46	38.56	40.05	40.41	
HE40	MCS0	2	6405	Full	38.46	38.26	40.23	40.14	
HE80	MCS0	2	5985	Full	77.44	77.32	82.56	82.72	
HE80	MCS0	2	6225	Full	77.32	77.32	82.24	82.56	
HE80	MCS0	2	6385	Full	77.44	77.32	82.72	82.40	
HE160	MCS0	2	6025	Full	156.08	156.80	166.72	165.76	
HE160	MCS0	2	6185	Full	156.56	156.32	165.76	165.44	
HE160	MCS0	2	6345	Full	156.56	156.32	166.40	165.44	

TEST RESULTS DATA
EIRP Power Table

FCC Band V MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	001	5955	Full	0.00	0.40	3.21	3.33		6.54	24.00	Pass
HE20	MCS0	2	001	5955	26/0	-9.40	-9.10	-6.24	3.33		-2.91	24.00	Pass
HE20	MCS0	2	001	5955	52/37	-6.30	-5.90	-3.09	3.33		0.24	24.00	Pass
HE20	MCS0	2	001	5955	106/53	-3.60	-3.20	-0.39	3.33		2.94	24.00	Pass
HE20	MCS0	2	045	5955	242/61	-0.10	0.40	3.17	3.33		6.50	24.00	Pass
HE20	MCS0	2	045	6195	Full	-0.30	-0.70	2.51	3.33		5.84	24.00	Pass
HE20	MCS0	2	045	6195	26/4	-8.70	-8.90	-5.79	3.33		-2.46	24.00	Pass
HE20	MCS0	2	045	6195	52/39	-6.20	-6.30	-3.24	3.33		0.09	24.00	Pass
HE20	MCS0	2	045	6195	106/53	-3.90	-4.10	-0.99	3.33		2.34	24.00	Pass
HE20	MCS0	2	093	6195	242/61	-0.40	-0.50	2.56	3.33		5.89	24.00	Pass
HE20	MCS0	2	093	6415	Full	-0.50	0.50	3.04	3.33		6.37	24.00	Pass
HE20	MCS0	2	093	6415	26/8	-10.20	-9.30	-6.72	3.33		-3.39	24.00	Pass
HE20	MCS0	2	093	6415	52/40	-7.30	-6.20	-3.70	3.33		-0.37	24.00	Pass
HE20	MCS0	2	093	6415	106/54	-4.10	-2.70	-0.33	3.33		3.00	24.00	Pass
HE20	MCS0	2	003	6415	242/61	-0.90	0.50	2.87	3.33		6.20	24.00	Pass
HE40	MCS0	2	003	5965	Full	2.50	3.40	5.98	3.33		9.31	24.00	Pass
HE40	MCS0	2	003	5965	26/9	-9.00	-8.50	-5.73	3.33		-2.40	24.00	Pass
HE40	MCS0	2	003	5965	52/41	-6.90	-5.90	-3.36	3.33		-0.03	24.00	Pass
HE40	MCS0	2	003	5965	106/55	-4.10	-3.40	-0.73	3.33		2.60	24.00	Pass
HE40	MCS0	2	003	5965	242/63	-0.70	0.10	5.88	3.33		9.21	24.00	Pass
HE40	MCS0	2	003	5965	484/65	2.40	3.30	5.88	3.33		9.21	24.00	Pass
HE40	MCS0	2	051	6205	Full	3.30	3.30	6.31	3.33		9.64	24.00	Pass
HE40	MCS0	2	051	6205	26/9	-10.10	-10.00	-7.04	3.33		-3.71	24.00	Pass
HE40	MCS0	2	051	6205	52/41	-7.30	-7.20	-4.24	3.33		-0.91	24.00	Pass
HE40	MCS0	2	051	6205	106/58	-3.70	-3.80	-0.74	3.33		2.59	24.00	Pass
HE40	MCS0	2	051	6205	242/62	2.80	2.90	5.86	3.33		9.19	24.00	Pass
HE40	MCS0	2	051	6205	484/65	2.80	2.90	5.86	3.33		9.19	24.00	Pass
HE40	MCS0	2	091	6405	Full	3.00	3.60	6.32	3.33		9.65	24.00	Pass
HE40	MCS0	2	091	6405	26/27	-10.20	-9.50	-6.83	3.33		-3.50	24.00	Pass
HE40	MCS0	2	007	6405	52/48	-7.00	-6.20	-3.57	3.33		-0.24	24.00	Pass
HE40	MCS0	2	091	6405	106/58	2.80	3.40	6.12	3.33		9.45	24.00	Pass
HE40	MCS0	2	055	6405	242/62	-1.00	0.10	2.60	3.33		5.93	24.00	Pass
HE40	MCS0	2	055	6405	484/65	2.80	3.40	6.12	3.33		9.45	24.00	Pass
HE80	MCS0	2	007	5985	Full	6.90	6.00	9.48	3.33		12.81	24.00	Pass
HE80	MCS0	2	007	5985	996/67	6.20	6.30	9.26	3.33		12.59	24.00	Pass
HE80	MCS0	2	055	6225	Full	6.70	5.70	9.24	3.33		12.57	24.00	Pass
HE80	MCS0	2	055	6225	996/67	5.90	6.00	8.96	3.33		12.29	24.00	Pass
HE80	MCS0	2	087	6385	Full	6.30	6.00	9.16	3.33		12.49	24.00	Pass
HE80	MCS0	2	087	6385	996/67	5.40	5.90	8.67	3.33		12.00	24.00	Pass
HE160	MCS0	2	015	6025	Full	9.30	7.70	11.58	3.33		14.91	24.00	Pass
HE160	MCS0	2	015	6025	1992/68	9.10	8.00	11.60	3.33		14.93	24.00	Pass
HE160	MCS0	2	047	6185	Full	8.60	7.80	11.23	3.33		14.56	24.00	Pass
HE160	MCS0	2	047	6185	1992/68	8.70	7.70	11.24	3.33		14.57	24.00	Pass
HE160	MCS0	2	079	6345	Full	8.60	8.60	11.61	3.33		14.94	24.00	Pass
HE160	MCS0	2	079	6345	1992/68	8.50	8.50	11.51	3.33		14.84	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band V MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	5955	Full			-7.66	6.32	-1.35	-1.00	Pass	
HE20	MCS0	2	5955	26/0			-7.75	6.32	-1.44	-1.00	Pass	
HE20	MCS0	2	5955	52/37			-8.21	6.32	-1.90	-1.00	Pass	
HE20	MCS0	2	5955	106/53			-8.48	6.32	-2.16	-1.00	Pass	
HE20	MCS0	2	5955	242/61			-8.19	6.32	-1.87	-1.00	Pass	
HE20	MCS0	2	6195	Full			-7.67	6.32	-1.35	-1.00	Pass	
HE20	MCS0	2	6195	26/4			-7.98	6.32	-1.66	-1.00	Pass	
HE20	MCS0	2	6195	52/39			-7.87	6.32	-1.55	-1.00	Pass	
HE20	MCS0	2	6195	106/53			-8.27	6.32	-1.96	-1.00	Pass	
HE20	MCS0	2	6195	242/61			-8.47	6.32	-2.15	-1.00	Pass	
HE20	MCS0	2	6415	Full			-7.87	6.32	-1.55	-1.00	Pass	
HE20	MCS0	2	6415	26/8			-8.10	6.32	-1.78	-1.00	Pass	
HE20	MCS0	2	6415	52/40			-8.40	6.32	-2.09	-1.00	Pass	
HE20	MCS0	2	6415	106/54			-8.30	6.32	-1.98	-1.00	Pass	
HE20	MCS0	2	6415	242/61			-8.21	6.32	-1.89	-1.00	Pass	
HE40	MCS0	2	5965	Full			-7.71	6.32	-1.39	-1.00	Pass	
HE40	MCS0	2	5965	26/9			-8.25	6.32	-1.93	-1.00	Pass	
HE40	MCS0	2	5965	52/41			-8.16	6.32	-1.84	-1.00	Pass	
HE40	MCS0	2	5965	106/55			-8.14	6.32	-1.82	-1.00	Pass	
HE40	MCS0	2	5965	242/63			-8.25	6.32	-1.93	-1.00	Pass	
HE40	MCS0	2	5965	484/65			-8.98	6.32	-2.67	-1.00	Pass	
HE40	MCS0	2	6205	Full			-8.50	6.32	-2.18	-1.00	Pass	
HE40	MCS0	2	6205	26/9			-8.74	6.32	-2.43	-1.00	Pass	
HE40	MCS0	2	6205	52/41			-8.66	6.32	-2.34	-1.00	Pass	
HE40	MCS0	2	6205	106/58			-8.70	6.32	-2.38	-1.00	Pass	
HE40	MCS0	2	6205	242/62			-8.84	6.32	-2.52	-1.00	Pass	
HE40	MCS0	2	6205	484/65			-8.73	6.32	-2.42	-1.00	Pass	
HE40	MCS0	2	6405	Full			-7.51	6.32	-1.20	-1.00	Pass	
HE40	MCS0	2	6405	26/27			-8.05	6.32	-1.73	-1.00	Pass	
HE40	MCS0	2	6405	52/48			-8.10	6.32	-1.78	-1.00	Pass	
HE40	MCS0	2	6405	106/58			-7.99	6.32	-1.67	-1.00	Pass	
HE40	MCS0	2	6405	242/62			-7.84	6.32	-1.53	-1.00	Pass	
HE40	MCS0	2	6405	484/65			-8.17	6.32	-1.85	-1.00	Pass	
HE80	MCS0	2	5985	Full			-7.65	6.32	-1.33	-1.00	Pass	
HE80	MCS0	2	5985	996/67			-8.13	6.32	-1.82	-1.00	Pass	
HE80	MCS0	2	6225	Full			-7.68	6.32	-1.36	-1.00	Pass	
HE80	MCS0	2	6225	996/67			-7.80	6.32	-1.48	-1.00	Pass	
HE80	MCS0	2	6385	Full			-7.68	6.32	-1.37	-1.00	Pass	
HE80	MCS0	2	6385	996/67			-7.98	6.32	-1.67	-1.00	Pass	
HE160	MCS0	2	6025	Full			-7.33	6.32	-1.01	-1.00	Pass	
HE160	MCS0	2	6025	1992/68			-7.90	6.32	-1.58	-1.00	Pass	
HE160	MCS0	2	6185	Full			-7.69	6.32	-1.37	-1.00	Pass	
HE160	MCS0	2	6185	1992/68			-8.52	6.32	-2.21	-1.00	Pass	
HE160	MCS0	2	6345	Full			-7.66	6.32	-1.34	-1.00	Pass	
HE160	MCS0	2	6345	1992/68			-8.48	6.32	-2.16	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band VI MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6435	Full	19.43	19.18	21.55	21.25	
HE20	MCS0	2	6475	Full	19.33	19.23	21.15	21.05	
HE20	MCS0	2	6515	Full	19.43	19.28	21.10	21.10	
HE40	MCS0	2	6445	Full	38.36	38.36	40.32	40.05	
HE40	MCS0	2	6485	Full	38.36	38.36	40.23	40.23	
HE80	MCS0	2	6465	Full	77.32	77.32	82.88	82.56	

Band VI straddle channel MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE40	MCS0	2	6525	Full	38.26	38.56	40.59	40.14	
HE160	MCS0	2	6505	Full	156.56	156.56	166.40	166.08	

TEST RESULTS DATA
EIRP Power Table

FCC Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6435	Full	-0.20	1.30	3.62	3.47		7.09	24.00	Pass
HE20	MCS0	2	6435	26/0	-9.50	-8.10	-5.73	3.47		-2.26	24.00	Pass
HE20	MCS0	2	6435	52/37	-6.80	-5.50	-3.09	3.47		0.38	24.00	Pass
HE20	MCS0	2	6435	106/53	-3.60	-2.30	0.11	3.47		3.58	24.00	Pass
HE20	MCS0	2	6435	242/61	-0.10	1.20	3.61	3.47		7.08	24.00	Pass
HE20	MCS0	2	6475	Full	0.00	0.90	3.48	3.47		6.95	24.00	Pass
HE20	MCS0	2	6475	26/4	-6.40	-6.40	-3.39	3.47		0.08	24.00	Pass
HE20	MCS0	2	6475	52/39	-6.40	-5.20	-2.75	3.47		0.72	24.00	Pass
HE20	MCS0	2	6475	106/54	-3.70	-2.90	-0.27	3.47		3.20	24.00	Pass
HE20	MCS0	2	6475	242/61	-0.10	0.80	3.38	3.47		6.85	24.00	Pass
HE20	MCS0	2	6515	Full	-0.10	0.30	3.11	3.47		6.58	24.00	Pass
HE20	MCS0	2	6515	26/8	-5.40	-6.00	-2.68	3.47		0.79	24.00	Pass
HE20	MCS0	2	6515	52/40	-6.30	-6.40	-3.34	3.47		0.13	24.00	Pass
HE20	MCS0	2	6515	106/54	-3.30	-3.30	-0.29	3.47		3.18	24.00	Pass
HE20	MCS0	2	6515	242/61	0.00	0.20	3.11	3.47		6.58	24.00	Pass
HE40	MCS0	2	6445	Full	4.00	4.10	7.06	3.47		10.53	24.00	Pass
HE40	MCS0	2	6445	26/9	-10.00	-8.60	-6.23	3.47		-2.76	24.00	Pass
HE40	MCS0	2	6445	52/41	-6.70	-5.40	-2.99	3.47		0.48	24.00	Pass
HE40	MCS0	2	6445	106/55	-3.10	-1.90	0.55	3.47		4.02	24.00	Pass
HE40	MCS0	2	6445	242/63	4.30	3.90	7.11	3.47		10.58	24.00	Pass
HE40	MCS0	2	6445	484/65	4.30	3.90	7.11	3.47		10.58	24.00	Pass
HE40	MCS0	2	6485	Full	4.30	3.80	7.07	3.47		10.54	24.00	Pass
HE40	MCS0	2	6485	26/9	-10.10	-8.90	-6.45	3.47		-2.98	24.00	Pass
HE40	MCS0	2	6485	52/41	-6.80	-5.60	-3.15	3.47		0.32	24.00	Pass
HE40	MCS0	2	6485	106/58	-3.50	-2.10	0.27	3.47		3.74	24.00	Pass
HE40	MCS0	2	6485	242/62	4.30	3.70	7.02	3.47		10.49	24.00	Pass
HE40	MCS0	2	6485	484/65	4.30	3.70	7.02	3.47		10.49	24.00	Pass
HE80	MCS0	2	6465	Full	7.00	6.70	9.86	3.47		13.33	24.00	Pass
HE80	MCS0	2	6465	996/67	6.60	6.60	9.61	3.47		13.08	24.00	Pass

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE40	MCS0	2	6525	Full	4.30	3.10	6.75	3.47		10.22	24.00	Pass
HE40	MCS0	2	6525	26/27	-9.10	-9.60	2.70	3.47		6.17	24.00	Pass
HE40	MCS0	2	6525	52/48	-6.50	-6.90	2.70	3.47		6.17	24.00	Pass
HE40	MCS0	2	6525	106/58	-3.10	-3.60	2.70	3.47		6.17	24.00	Pass
HE40	MCS0	2	6525	242/62	2.70	2.40	5.56	3.47		9.03	24.00	Pass
HE40	MCS0	2	6525	484/65	-11.10	-10.30	-7.67	3.47		-4.20	24.00	Pass
HE160	MCS0	2	6505	Full	9.60	8.90	12.27	3.47		15.74	24.00	Pass
HE160	MCS0	2	6505	1992/68	9.30	8.60	11.97	3.47		15.44	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

Band VI MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE20	MCS0	2	6435	Full			-7.50	6.03	-1.47	-1.00	Pass	
HE20	MCS0	2	6435	26/0			-7.88	6.03	-1.85	-1.00	Pass	
HE20	MCS0	2	6435	52/37			-7.88	6.03	-1.85	-1.00	Pass	
HE20	MCS0	2	6435	106/53			-7.90	6.03	-1.87	-1.00	Pass	
HE20	MCS0	2	6435	242/61			-8.42	6.03	-2.39	-1.00	Pass	
HE20	MCS0	2	6475	Full			-7.53	6.03	-1.50	-1.00	Pass	
HE20	MCS0	2	6475	26/4			-8.03	6.03	-2.00	-1.00	Pass	
HE20	MCS0	2	6475	52/39			-7.72	6.03	-1.69	-1.00	Pass	
HE20	MCS0	2	6475	106/54			-7.64	6.03	-1.62	-1.00	Pass	
HE20	MCS0	2	6475	242/61			-8.07	6.03	-2.04	-1.00	Pass	
HE20	MCS0	2	6515	Full			-7.14	6.03	-1.12	-1.00	Pass	
HE20	MCS0	2	6515	26/8			-7.21	6.03	-1.18	-1.00	Pass	
HE20	MCS0	2	6515	52/40			-7.64	6.03	-1.61	-1.00	Pass	
HE20	MCS0	2	6515	106/54			-7.23	6.03	-1.20	-1.00	Pass	
HE20	MCS0	2	6515	242/61			-7.34	6.03	-1.32	-1.00	Pass	
HE40	MCS0	2	6445	Full			-7.17	6.03	-1.14	-1.00	Pass	
HE40	MCS0	2	6445	26/9			-7.35	6.03	-1.33	-1.00	Pass	
HE40	MCS0	2	6445	52/41			-7.32	6.03	-1.29	-1.00	Pass	
HE40	MCS0	2	6445	106/55			-7.29	6.03	-1.26	-1.00	Pass	
HE40	MCS0	2	6445	242/63			-7.34	6.03	-1.32	-1.00	Pass	
HE40	MCS0	2	6445	484/65			-7.22	6.03	-1.19	-1.00	Pass	
HE40	MCS0	2	6485	Full			-7.15	6.03	-1.13	-1.00	Pass	
HE40	MCS0	2	6485	26/9			-7.26	6.03	-1.24	-1.00	Pass	
HE40	MCS0	2	6485	52/41			-7.55	6.03	-1.53	-1.00	Pass	
HE40	MCS0	2	6485	106/58			-7.45	6.03	-1.43	-1.00	Pass	
HE40	MCS0	2	6485	242/62			-8.10	6.03	-2.08	-1.00	Pass	
HE40	MCS0	2	6485	484/65			-8.37	6.03	-2.34	-1.00	Pass	
HE80	MCS0	2	6465	Full			-7.44	6.03	-1.41	-1.00	Pass	
HE80	MCS0	2	6465	996/67			-7.61	6.03	-1.59	-1.00	Pass	

FCC Band VI straddle channel MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	SUM		
HE40	MCS0	2	6525	Full			-7.48	6.03	-1.46	-1.00	Pass	
HE40	MCS0	2	6525	26/27			-7.76	6.03	-1.74	-1.00	Pass	
HE40	MCS0	2	6525	52/48			-7.96	6.03	-1.93	-1.00	Pass	
HE40	MCS0	2	6525	106/58			-7.71	6.03	-1.68	-1.00	Pass	
HE40	MCS0	2	6525	242/62			-7.63	6.03	-1.60	-1.00	Pass	
HE40	MCS0	2	6525	484/65			-8.40	6.03	-2.37	-1.00	Pass	
HE160	MCS0	2	6505	Full			-7.58	6.03	-1.56	-1.00	Pass	
HE160	MCS0	2	6505	1992/68			-8.20	6.03	-2.17	-1.00	Pass	

TEST RESULTS DATA
26dB and 99% OBW

Band VII MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6535	Full	19.33	19.23	21.20	21.40	
HE20	MCS0	2	6695	Full	19.88	19.18	21.35	21.45	
HE20	MCS0	2	6855	Full	19.48	19.48	21.30	21.10	
HE40	MCS0	2	6565	Full	38.86	38.46	40.32	40.41	
HE40	MCS0	2	6685	Full	38.46	38.56	40.14	40.05	
HE40	MCS0	2	6845	Full	39.16	39.06	40.14	40.32	
HE80	MCS1	2	6625	Full	77.56	77.44	82.72	82.40	
HE80	MCS1	2	6705	Full	77.32	77.44	82.72	82.40	
HE80	MCS1	2	6785	Full	77.32	77.44	82.40	83.20	
HE160	MCS0	2	6665	Full	156.56	155.84	166.08	165.44	
HE160	MCS0	2	6825	Full	156.80	156.80	166.40	164.80	

TEST RESULTS DATA
EIRP Power Table

FCC Band VII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6535	Full	0.50	1.10	3.82	3.71		7.53	24.00	Pass
HE20	MCS0	2	6535	26/0	-10.20	-9.60	-6.88	3.71		-3.17	24.00	Pass
HE20	MCS0	2	6535	52/37	-7.60	-6.80	-4.17	3.71		-0.46	24.00	Pass
HE20	MCS0	2	6535	106/53	-4.00	-3.60	-0.79	3.71		2.92	24.00	Pass
HE20	MCS0	2	6535	242/61	0.00	0.50	3.27	3.71		6.98	24.00	Pass
HE20	MCS0	2	6695	Full	-1.40	0.00	2.37	3.71		6.08	24.00	Pass
HE20	MCS0	2	6695	26/4	-10.20	-8.90	-6.49	3.71		-2.78	24.00	Pass
HE20	MCS0	2	6695	52/39	-8.70	-7.40	-4.99	3.71		-1.28	24.00	Pass
HE20	MCS0	2	6695	106/53	-5.50	-4.20	-1.79	3.71		1.92	24.00	Pass
HE20	MCS0	2	6695	242/61	-1.50	-0.10	2.27	3.71		5.98	24.00	Pass
HE20	MCS0	2	6855	Full	-1.50	0.30	2.50	3.71		6.21	24.00	Pass
HE20	MCS0	2	6855	26/8	-11.10	-9.70	-7.33	3.71		-3.62	24.00	Pass
HE20	MCS0	2	6855	52/40	-8.10	-6.70	-4.33	3.71		-0.62	24.00	Pass
HE20	MCS0	2	6855	106/54	-5.10	-3.70	-1.33	3.71		2.38	24.00	Pass
HE20	MCS0	2	6855	242/61	-1.60	0.00	2.28	3.71		5.99	24.00	Pass
HE40	MCS0	2	6565	Full	2.30	2.80	5.57	3.71		9.28	24.00	Pass
HE40	MCS0	2	6565	26/9	-11.10	-10.30	-7.67	3.71		-3.96	24.00	Pass
HE40	MCS0	2	6565	52/41	-8.00	-6.90	-4.40	3.71		-0.69	24.00	Pass
HE40	MCS0	2	6565	106/55	-4.70	-4.00	-1.33	3.71		2.38	24.00	Pass
HE40	MCS0	2	6565	242/63	2.20	2.70	5.47	3.71		9.18	24.00	Pass
HE40	MCS0	2	6565	484/65	2.20	2.70	5.47	3.71		9.18	24.00	Pass
HE40	MCS0	2	6685	Full	3.30	3.10	6.21	3.71		9.92	24.00	Pass
HE40	MCS0	2	6685	26/9	-11.40	-10.10	-7.69	3.71		-3.98	24.00	Pass
HE40	MCS0	2	6685	52/41	-7.30	-6.80	-4.03	3.71		-0.32	24.00	Pass
HE40	MCS0	2	6685	106/58	-4.90	-3.70	-1.25	3.71		2.46	24.00	Pass
HE40	MCS0	2	6685	242/62	2.40	2.90	5.67	3.71		9.38	24.00	Pass
HE40	MCS0	2	6685	484/65	2.40	2.90	5.67	3.71		9.38	24.00	Pass
HE40	MCS0	2	6845	Full	2.20	2.70	5.47	3.71		9.18	24.00	Pass
HE40	MCS0	2	6845	26/27	-11.80	-11.00	-8.37	3.71		-4.66	24.00	Pass
HE40	MCS0	2	6845	52/48	-8.70	-8.00	-5.33	3.71		-1.62	24.00	Pass
HE40	MCS0	2	6845	106/58	-5.10	-4.60	-1.83	3.71		1.88	24.00	Pass
HE40	MCS0	2	6845	242/62	1.60	2.20	4.92	3.71		8.63	24.00	Pass
HE40	MCS0	2	6845	484/65	1.60	2.20	4.92	3.71		8.63	24.00	Pass
HE80	MCS1	2	6625	Full	6.50	5.70	9.13	3.71		12.84	24.00	Pass
HE80	MCS1	2	6625	996/67	6.60	5.80	9.23	3.71		12.94	24.00	Pass
HE80	MCS1	2	6705	Full	5.90	5.90	8.91	3.71		12.62	24.00	Pass
HE80	MCS1	2	6705	996/67	5.90	6.00	8.96	3.71		12.67	24.00	Pass
HE80	MCS1	2	6785	Full	6.10	6.20	9.16	3.71		12.87	24.00	Pass
HE80	MCS1	2	6785	996/67	6.00	6.20	9.11	3.71		12.82	24.00	Pass
HE160	MCS0	2	6665	Full	8.50	8.70	11.61	3.71		15.32	24.00	Pass
HE160	MCS0	2	6665	1992/68	8.40	8.60	11.51	3.71		15.22	24.00	Pass
HE160	MCS0	2	6825	Full	8.40	8.70	11.56	3.71		15.27	24.00	Pass
HE160	MCS0	2	6825	1992/68	8.30	8.60	11.46	3.71		15.17	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VII MIMO												
Mod.	Data Rate	N _{TX}	Freq. (MHz)	RU Config.	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6535	Full			-7.74	6.58	-1.16	-1.00	Pass	
HE20	MCS0	2	6535	26/0			-8.37	6.58	-1.79	-1.00	Pass	
HE20	MCS0	2	6535	52/37			-8.32	6.58	-1.75	-1.00	Pass	
HE20	MCS0	2	6535	106/53			-7.92	6.58	-1.34	-1.00	Pass	
HE20	MCS0	2	6535	242/61			-8.45	6.58	-1.87	-1.00	Pass	
HE20	MCS0	2	6695	Full			-7.89	6.58	-1.31	-1.00	Pass	
HE20	MCS0	2	6695	26/4			-8.13	6.58	-1.56	-1.00	Pass	
HE20	MCS0	2	6695	52/39			-7.99	6.58	-1.41	-1.00	Pass	
HE20	MCS0	2	6695	106/53			-8.38	6.58	-1.81	-1.00	Pass	
HE20	MCS0	2	6695	242/61			-8.25	6.58	-1.67	-1.00	Pass	
HE20	MCS0	2	6855	Full			-7.86	6.58	-1.29	-1.00	Pass	
HE20	MCS0	2	6855	26/8			-8.09	6.58	-1.51	-1.00	Pass	
HE20	MCS0	2	6855	52/40			-8.20	6.58	-1.62	-1.00	Pass	
HE20	MCS0	2	6855	106/54			-8.15	6.58	-1.58	-1.00	Pass	
HE20	MCS0	2	6855	242/61			-8.38	6.58	-1.80	-1.00	Pass	
HE40	MCS0	2	6565	Full			-8.25	6.58	-1.67	-1.00	Pass	
HE40	MCS0	2	6565	26/9			-8.32	6.58	-1.75	-1.00	Pass	
HE40	MCS0	2	6565	52/41			-8.58	6.58	-2.01	-1.00	Pass	
HE40	MCS0	2	6565	106/55			-8.57	6.58	-1.99	-1.00	Pass	
HE40	MCS0	2	6565	242/63			-8.60	6.58	-2.02	-1.00	Pass	
HE40	MCS0	2	6565	484/65			-8.83	6.58	-2.25	-1.00	Pass	
HE40	MCS0	2	6685	Full			-7.81	6.58	-1.24	-1.00	Pass	
HE40	MCS0	2	6685	26/9			-8.53	6.58	-1.96	-1.00	Pass	
HE40	MCS0	2	6685	52/41			-8.30	6.58	-1.72	-1.00	Pass	
HE40	MCS0	2	6685	106/58			-8.50	6.58	-1.92	-1.00	Pass	
HE40	MCS0	2	6685	242/62			-8.39	6.58	-1.81	-1.00	Pass	
HE40	MCS0	2	6685	484/65			-8.22	6.58	-1.64	-1.00	Pass	
HE40	MCS0	2	6845	Full			-8.45	6.58	-1.87	-1.00	Pass	
HE40	MCS0	2	6845	26/27			-8.59	6.58	-2.01	-1.00	Pass	
HE40	MCS0	2	6845	52/48			-8.94	6.58	-2.36	-1.00	Pass	
HE40	MCS0	2	6845	106/58			-8.59	6.58	-2.02	-1.00	Pass	
HE40	MCS0	2	6845	242/62			-8.91	6.58	-2.33	-1.00	Pass	
HE40	MCS0	2	6845	484/65			-8.72	6.58	-2.15	-1.00	Pass	
HE80	MCS1	2	6625	Full			-7.98	6.58	-1.40	-1.00	Pass	
HE80	MCS1	2	6625	996/67			-8.07	6.58	-1.49	-1.00	Pass	
HE80	MCS1	2	6705	Full			-7.84	6.58	-1.27	-1.00	Pass	
HE80	MCS1	2	6705	996/67			-8.10	6.58	-1.52	-1.00	Pass	
HE80	MCS1	2	6785	Full			-7.88	6.58	-1.31	-1.00	Pass	
HE80	MCS1	2	6785	996/67			-7.92	6.58	-1.34	-1.00	Pass	
HE160	MCS0	2	6665	Full			-7.79	6.58	-1.21	-1.00	Pass	
HE160	MCS0	2	6665	1992/68			-8.65	6.58	-2.08	-1.00	Pass	
HE160	MCS0	2	6825	Full			-7.64	6.58	-1.07	-1.00	Pass	
HE160	MCS0	2	6825	1992/68			-8.88	6.58	-2.30	-1.00	Pass	

TEST RESULTS DATA
26dB EBW and 99% OBW

Band VIII MIMO									
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Note
					Ant 1	Ant 2	Ant 1	Ant 2	
HE20	MCS0	2	6895	Full	18.93	19.83	21.30	21.30	
HE20	MCS0	2	6995	Full	18.98	19.63	21.10	21.40	
HE20	MCS0	2	7115	Full	19.08	19.08	21.35	21.35	
HE40	MCS0	2	6925	Full	38.66	39.36	39.96	39.96	
HE40	MCS0	2	7005	Full	38.56	38.66	39.96	39.96	
HE40	MCS0	2	7085	Full	38.66	38.76	40.14	40.14	
HE80	MCS0	2	6945	Full	77.32	77.68	82.72	82.40	
HE80	MCS0	2	7025	Full	77.32	77.44	82.40	82.56	
HE160	MCS0	2	6985	Full	156.32	156.32	165.76	165.44	

TEST RESULTS DATA
EIRP Power Table

Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6895	Full	-0.60	0.20	2.83	3.71		6.54	24.00	Pass
HE20	MCS0	2	6895	26/0	-10.10	-9.60	-6.83	3.71		-3.12	24.00	Pass
HE20	MCS0	2	6895	52/37	-7.80	-7.10	-4.43	3.71		-0.72	24.00	Pass
HE20	MCS0	2	6895	106/53	-4.50	-3.90	-1.18	3.71		2.53	24.00	Pass
HE20	MCS0	2	6895	242/61	-0.50	0.10	2.82	3.71		6.53	24.00	Pass
HE20	MCS0	2	6995	Full	-1.40	-0.10	2.31	3.71		6.02	24.00	Pass
HE20	MCS0	2	6995	26/4	-9.90	-9.60	-6.74	3.71		-3.03	24.00	Pass
HE20	MCS0	2	6995	52/39	-8.60	-7.50	-5.00	3.71		-1.29	24.00	Pass
HE20	MCS0	2	6995	106/53	-5.40	-4.00	-1.63	3.71		2.08	24.00	Pass
HE20	MCS0	2	6995	242/61	-1.30	-0.20	2.30	3.71		6.01	24.00	Pass
HE20	MCS0	2	7115	Full	-10.60	-10.40	-7.49	3.71		-3.78	24.00	Pass
HE20	MCS0	2	7115	26/8	-19.90	-19.70	-16.79	3.71		-13.08	24.00	Pass
HE20	MCS0	2	7115	52/40	-17.20	-16.90	-14.04	3.71		-10.33	24.00	Pass
HE20	MCS0	2	7115	106/54	-14.40	-13.90	-11.13	3.71		-7.42	24.00	Pass
HE20	MCS0	2	7115	242/61	-10.70	-10.50	-7.59	3.71		-3.88	24.00	Pass
HE40	MCS0	2	6925	Full	3.50	2.50	6.04	3.71		9.75	24.00	Pass
HE40	MCS0	2	6925	26/9	-10.60	-10.80	-7.69	3.71		-3.98	24.00	Pass
HE40	MCS0	2	6925	52/41	-7.20	-7.40	-4.29	3.71		-0.58	24.00	Pass
HE40	MCS0	2	6925	106/55	-4.10	-4.50	-1.29	3.71		2.42	24.00	Pass
HE40	MCS0	2	6925	242/63	2.10	2.00	5.06	3.71		8.77	24.00	Pass
HE40	MCS0	2	6925	484/65	2.10	2.00	5.06	3.71		8.77	24.00	Pass
HE40	MCS0	2	7005	Full	1.60	2.20	4.92	3.71		8.63	24.00	Pass
HE40	MCS0	2	7005	26/9	-11.50	-10.50	-7.96	3.71		-4.25	24.00	Pass
HE40	MCS0	2	7005	52/41	-8.10	-7.20	-4.62	3.71		-0.91	24.00	Pass
HE40	MCS0	2	7005	106/58	-5.10	-3.90	-1.45	3.71		2.26	24.00	Pass
HE40	MCS0	2	7005	242/62	1.20	2.10	4.68	3.71		8.39	24.00	Pass
HE40	MCS0	2	7005	484/65	1.20	2.10	4.68	3.71		8.39	24.00	Pass
HE40	MCS0	2	7085	Full	0.80	1.20	4.01	3.71		7.72	24.00	Pass
HE40	MCS0	2	7085	26/27	-11.80	-11.40	-8.59	3.71		-4.88	24.00	Pass
HE40	MCS0	2	7085	52/48	-9.00	-8.50	-5.73	3.71		-2.02	24.00	Pass
HE40	MCS0	2	7085	106/58	-5.30	-5.40	-2.34	3.71		1.37	24.00	Pass
HE40	MCS0	2	7085	242/62	0.10	1.00	3.58	3.71		7.29	24.00	Pass
HE40	MCS0	2	7085	484/65	0.10	1.00	3.58	3.71		7.29	24.00	Pass
HE80	MCS0	2	6945	Full	6.60	5.60	9.14	3.71		12.85	24.00	Pass
HE80	MCS0	2	6945	996/67	6.50	5.60	9.08	3.71		12.79	24.00	Pass
HE80	MCS0	2	7025	Full	6.50	5.70	9.13	3.71		12.84	24.00	Pass
HE80	MCS0	2	7025	996/67	6.40	5.70	9.07	3.71		12.78	24.00	Pass
HE160	MCS0	2	6985	Full	8.30	8.50	11.41	3.71		15.12	24.00	Pass
HE160	MCS0	2	6985	1992/68	8.20	8.40	11.31	3.71		15.02	24.00	Pass

TEST RESULTS DATA
EIRP Power Spectral Density

FCC Band VIII MIMO												
Mod.	Data Rate	NTX	Freq. (MHz)	RU Config	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm)	Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2			
HE20	MCS0	2	6895	Full			-8.02	6.58	-1.45	-1.00	Pass	
HE20	MCS0	2	6895	26/0			-8.57	6.58	-1.99	-1.00	Pass	
HE20	MCS0	2	6895	52/37			-8.63	6.58	-2.05	-1.00	Pass	
HE20	MCS0	2	6895	106/53			-8.30	6.58	-1.72	-1.00	Pass	
HE20	MCS0	2	6895	242/61			-8.69	6.58	-2.12	-1.00	Pass	
HE20	MCS0	2	6995	Full			-8.27	6.58	-1.69	-1.00	Pass	
HE20	MCS0	2	6995	26/4			-8.80	6.58	-2.22	-1.00	Pass	
HE20	MCS0	2	6995	52/39			-8.42	6.58	-1.85	-1.00	Pass	
HE20	MCS0	2	6995	106/53			-8.92	6.58	-2.34	-1.00	Pass	
HE20	MCS0	2	6995	242/61			-8.69	6.58	-2.11	-1.00	Pass	
HE20	MCS0	2	7115	Full			-16.93	6.58	-10.35	-1.00	Pass	
HE20	MCS0	2	7115	26/8			-17.27	6.58	-10.70	-1.00	Pass	
HE20	MCS0	2	7115	52/40			-16.98	6.58	-10.40	-1.00	Pass	
HE20	MCS0	2	7115	106/54			-17.17	6.58	-10.59	-1.00	Pass	
HE20	MCS0	2	7115	242/61			-18.21	6.58	-11.64	-1.00	Pass	
HE40	MCS0	2	6925	Full			-7.80	6.58	-1.23	-1.00	Pass	
HE40	MCS0	2	6925	26/9			-7.84	6.58	-1.26	-1.00	Pass	
HE40	MCS0	2	6925	52/41			-7.85	6.58	-1.27	-1.00	Pass	
HE40	MCS0	2	6925	106/55			-7.92	6.58	-1.34	-1.00	Pass	
HE40	MCS0	2	6925	242/63			-8.08	6.58	-1.50	-1.00	Pass	
HE40	MCS0	2	6925	484/65			-8.48	6.58	-1.90	-1.00	Pass	
HE40	MCS0	2	7005	Full			-8.02	6.58	-1.45	-1.00	Pass	
HE40	MCS0	2	7005	26/9			-8.19	6.58	-1.61	-1.00	Pass	
HE40	MCS0	2	7005	52/41			-8.16	6.58	-1.58	-1.00	Pass	
HE40	MCS0	2	7005	106/58			-8.22	6.58	-1.64	-1.00	Pass	
HE40	MCS0	2	7005	242/62			-8.39	6.58	-1.81	-1.00	Pass	
HE40	MCS0	2	7005	484/65			-8.93	6.58	-2.35	-1.00	Pass	
HE40	MCS0	2	7085	Full			-8.97	6.58	-2.39	-1.00	Pass	
HE40	MCS0	2	7085	26/27			-9.05	6.58	-2.47	-1.00	Pass	
HE40	MCS0	2	7085	52/48			-9.44	6.58	-2.86	-1.00	Pass	
HE40	MCS0	2	7085	106/58			-8.98	6.58	-2.40	-1.00	Pass	
HE40	MCS0	2	7085	242/62			-9.24	6.58	-2.67	-1.00	Pass	
HE40	MCS0	2	7085	484/65			-10.20	6.58	-3.62	-1.00	Pass	
HE80	MCS0	2	6945	Full			-7.91	6.58	-1.33	-1.00	Pass	
HE80	MCS0	2	6945	996/67			-8.12	6.58	-1.55	-1.00	Pass	
HE80	MCS0	2	7025	Full			-8.03	6.58	-1.46	-1.00	Pass	
HE80	MCS0	2	7025	996/67			-8.11	6.58	-1.53	-1.00	Pass	
HE160	MCS0	2	6985	Full			-7.68	6.58	-1.10	-1.00	Pass	
HE160	MCS0	2	6985	1992/68			-8.49	6.58	-1.91	-1.00	Pass	



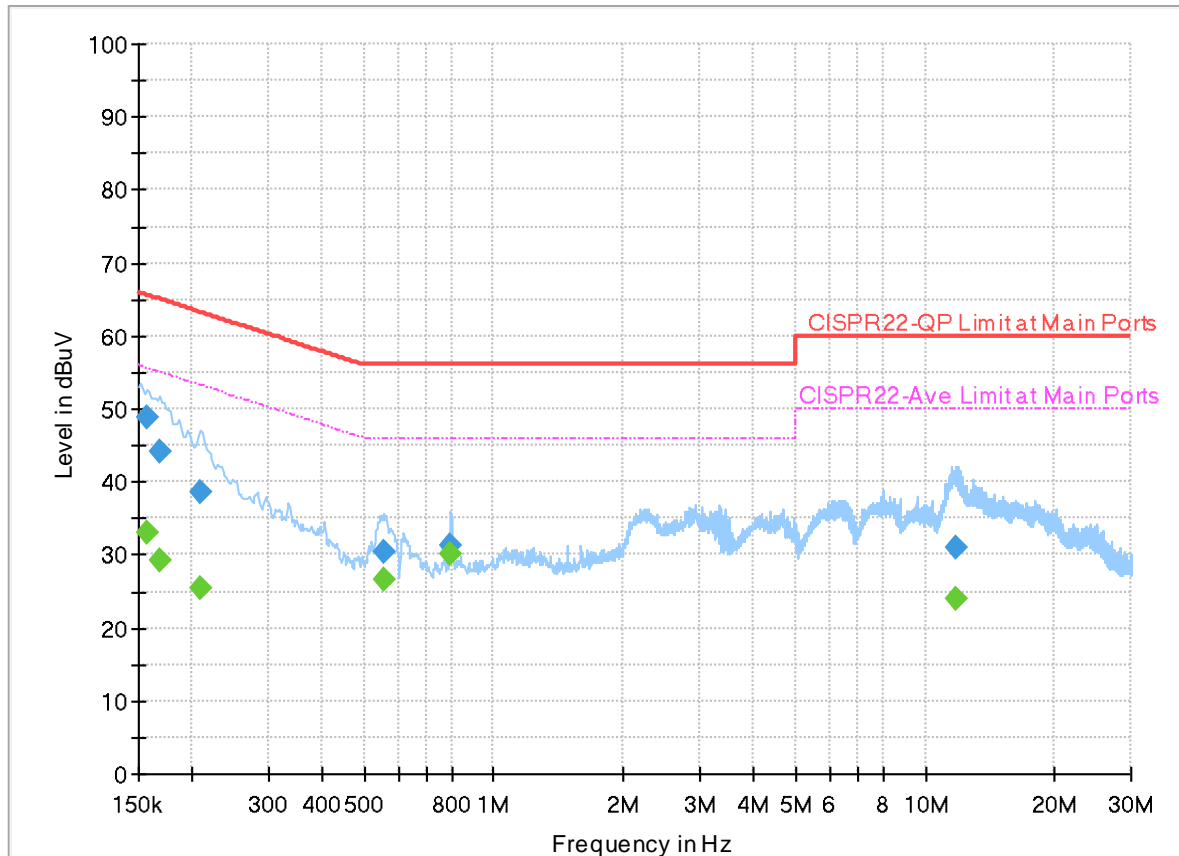
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Calvin Wang	Temperature :	23~26°C
		Relative Humidity :	45~55%

EUT Information

Report NO : 1D1645
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



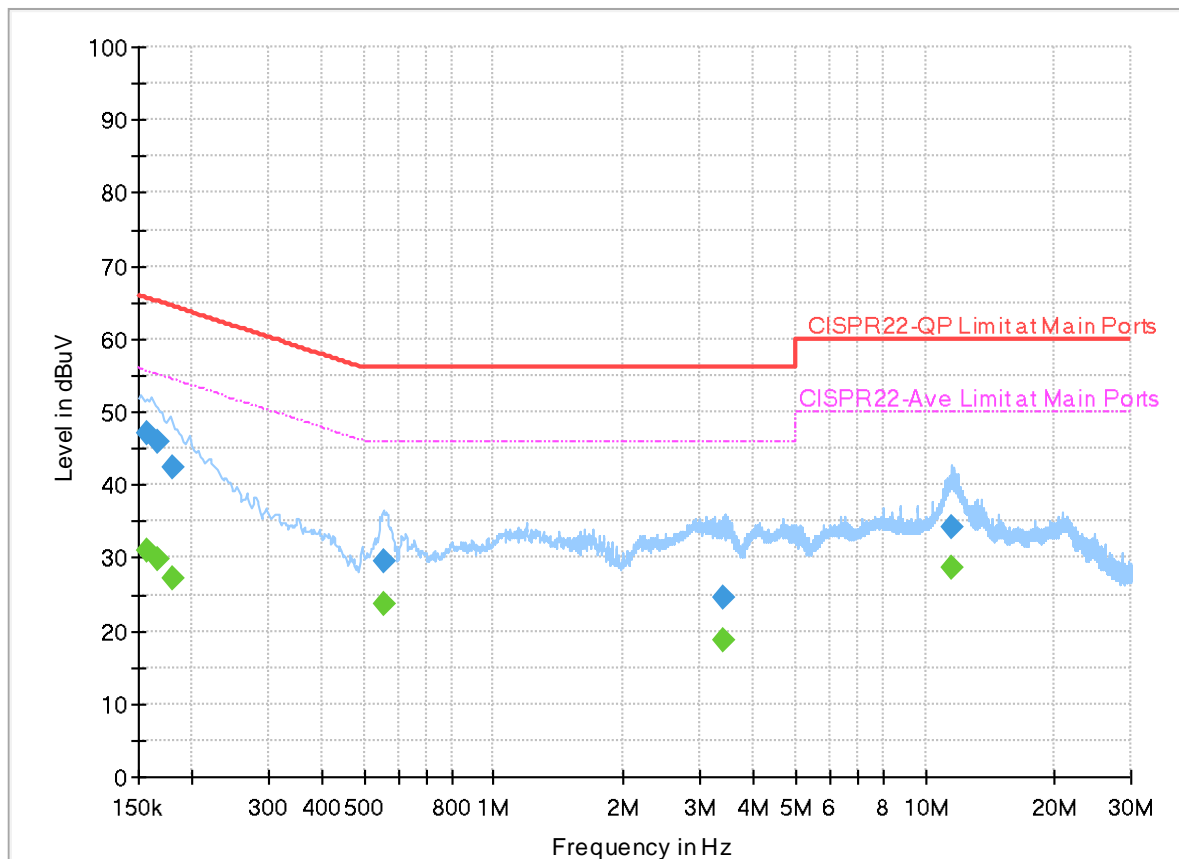
Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	32.90	55.63	22.73	L1	OFF	19.7
0.156750	48.69	---	65.63	16.94	L1	OFF	19.7
0.168000	---	29.18	55.06	25.88	L1	OFF	19.7
0.168000	44.10	---	65.06	20.96	L1	OFF	19.7
0.208500	---	25.41	53.27	27.86	L1	OFF	19.7
0.208500	38.46	---	63.27	24.81	L1	OFF	19.7
0.555000	---	26.48	46.00	19.52	L1	OFF	19.7
0.555000	30.37	---	56.00	25.63	L1	OFF	19.7
0.795750	---	30.25	46.00	15.75	L1	OFF	19.7
0.795750	31.41	---	56.00	24.59	L1	OFF	19.7
11.800500	---	23.94	50.00	26.06	L1	OFF	19.9
11.800500	30.96	---	60.00	29.04	L1	OFF	19.9

EUT Information

Report NO : 1D1645
 Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	31.04	55.63	24.59	N	OFF	19.7
0.156750	46.97	---	65.63	18.66	N	OFF	19.7
0.165750	---	29.96	55.17	25.21	N	OFF	19.7
0.165750	45.78	---	65.17	19.39	N	OFF	19.7
0.179250	---	27.15	54.52	27.37	N	OFF	19.7
0.179250	42.34	---	64.52	22.18	N	OFF	19.7
0.555000	---	23.68	46.00	22.32	N	OFF	19.7
0.555000	29.49	---	56.00	26.51	N	OFF	19.7
3.394500	---	18.75	46.00	27.25	N	OFF	19.7
3.394500	24.68	---	56.00	31.32	N	OFF	19.7
11.517000	---	28.55	50.00	21.45	N	OFF	19.9
11.517000	34.10	---	60.00	25.90	N	OFF	19.9



Appendix C. Radiated Spurious Emission

Test Engineer :	Bill Chang, JC Liang, and Bigshow Wang	Temperature :	18~20°C
		Relative Humidity :	68~70%
Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 1 (Aux.) and Ant. 2 means Chain 2 (Main)			



<Sample 1>

Band 5 - 5925~6425MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 79 6345MHz		12690	51.21	-22.79	74	34.21	39.48	20.74	43.22	100	215	P	H	
		12690	45.22	-8.78	54	28.22	39.48	20.74	43.22	100	215	A	H	
		13336	52.96	-21.04	74	34.92	39.87	21.33	43.16	-	-	P	H	
		13336	44.91	-9.09	54	26.87	39.87	21.33	43.16	-	-	A	H	
		15680	51.38	-22.62	74	35.34	37.72	22.97	44.65	-	-	P	H	
		15680	43.38	-10.62	54	27.34	37.72	22.97	44.65	-	-	A	H	
		17936	54.78	-19.22	74	34.61	41.35	24.24	45.42	-	-	P	H	
		17936	46.69	-7.31	54	26.52	41.35	24.24	45.42	-	-	A	H	
		19035	36.48	-37.52	74	38.68	38.01	14.98	55.19	-	-	P	H	
		39538	52.76	-21.24	74	38.14	44.67	26.21	56.26	-	-	P	H	
		39538	42.94	-11.06	54	28.32	44.67	26.21	56.26	-	-	A	H	
													P	H
			12690	50.85	-23.15	74	33.85	39.48	20.74	43.22	313	115	P	V
			12690	44.84	-9.16	54	27.84	39.48	20.74	43.22	313	115	A	V
			13312	53.45	-20.55	74	35.48	39.82	21.31	43.16	-	-	P	V
			13312	45.39	-8.61	54	27.42	39.82	21.31	43.16	-	-	A	V
			15472	50.97	-23.03	74	34.76	38.21	22.83	44.83	-	-	P	V
			15472	42.76	-11.24	54	26.55	38.21	22.83	44.83	-	-	A	V
			17984	55.29	-18.71	74	34.79	41.69	24.27	45.46	-	-	P	V
			17984	47.24	-6.76	54	26.74	41.69	24.27	45.46	-	-	A	V
		19034	36.46	-37.54	74	38.67	38.01	14.97	55.19	-	-	P	V	
		39450	52.22	-21.78	74	37.74	44.66	26.16	56.34	-	-	P	V	
		39450	42.27	-11.73	54	27.79	44.66	26.16	56.34	-	-	A	V	
													V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Band 6 - 6425~6525MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13010	51.59	-36.61	88.2	33.92	39.69	21.08	43.1	-	-	P	H
		13320	53.13	-20.87	74	35.13	39.84	21.32	43.16	-	-	A	H
		13320	44.56	-9.44	54	26.56	39.84	21.32	43.16	-	-	P	H
		15616	51.59	-22.41	74	35.59	37.78	22.93	44.71	-	-	P	H
		15616	43.12	-10.88	54	27.12	37.78	22.93	44.71	-	-	A	H
		17960	55.51	-18.49	74	35.18	41.52	24.25	45.44	-	-	P	H
		17960	46.67	-7.33	54	26.34	41.52	24.25	45.44	-	-	A	H
		19515	36.54	-37.46	74	38.08	37.71	15.75	55	-	-	P	H
		39252	52.92	-21.08	74	38.87	44.5	26.05	56.5	-	-	P	H
		39252	42.94	-11.06	54	28.89	44.5	26.05	56.5	-	-	A	H
802.11ax													H
HE160 Full													H
CH 111		13010	50.88	-37.32	88.2	33.21	39.69	21.08	43.1	-	-	P	V
6505MHz		13288	52.62	-21.38	74	34.69	39.79	21.29	43.15	-	-	A	V
		13288	45.11	-8.89	54	27.18	39.79	21.29	43.15	-	-	P	V
		15392	51.25	-22.75	74	34.83	38.5	22.77	44.85	-	-	P	V
		15392	43.76	-10.24	54	27.34	38.5	22.77	44.85	-	-	A	V
		17984	55.43	-18.57	74	34.93	41.69	24.27	45.46	-	-	P	V
		17984	47.35	-6.65	54	26.85	41.69	24.27	45.46	-	-	A	V
		19518	36.49	-37.51	74	38.03	37.71	15.75	55	-	-	P	V
		39384	52.17	-21.83	74	37.83	44.61	26.12	56.39	-	-	P	V
		39384	42.2	-11.8	54	27.86	44.61	26.12	56.39	-	-	A	V
													V
													V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Band 7 - 6525~6875MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13330	52.28	-21.72	74	34.26	39.86	21.32	43.16	100	225	P	H
		13330	44.24	-9.76	54	26.22	39.86	21.32	43.16	100	225	A	H
		13352	52.67	-21.33	74	34.59	39.9	21.34	43.16	-	-	P	H
		13352	43.96	-10.04	54	25.88	39.9	21.34	43.16	-	-	A	H
		15536	51.13	-22.87	74	35.05	37.99	22.88	44.79	-	-	P	H
		15536	42.62	-11.38	54	26.54	37.99	22.88	44.79	-	-	A	H
		17944	55.08	-18.92	74	34.86	41.41	24.24	45.43	-	-	P	H
		17944	46.59	-7.41	54	26.37	41.41	24.24	45.43	-	-	A	H
		20002	36.22	-37.78	74	37.09	37.5	16.53	54.9	-	-	P	H
		39516	52.62	-21.38	74	38.02	44.69	26.19	56.28	-	-	P	H
802.11ax		39516	42.75	-11.25	54	28.15	44.69	26.19	56.28	-	-	A	H
HE160 Full													H
CH 143		13330	53.51	-20.49	74	35.49	39.86	21.32	43.16	321	114	P	V
6665MHz		13330	46.46	-7.54	54	28.44	39.86	21.32	43.16	321	114	A	V
		13352	53.73	-20.27	74	35.65	39.9	21.34	43.16	-	-	P	V
		13352	45.19	-8.81	54	27.11	39.9	21.34	43.16	-	-	A	V
		16008	50.95	-23.05	74	34.48	37.61	23.2	44.34	-	-	P	V
		16008	43.43	-10.57	54	26.96	37.61	23.2	44.34	-	-	A	V
		17928	55.32	-18.68	74	35.21	41.3	24.23	45.42	-	-	P	V
		17928	46.88	-7.12	54	26.77	41.3	24.23	45.42	-	-	A	V
		19995	37.49	-36.51	74	38.36	37.51	16.52	54.9	-	-	P	V
		39362	52.36	-21.64	74	38.07	44.59	26.11	56.41	-	-	P	V
		39362	42.44	-11.56	54	28.15	44.59	26.11	56.41	-	-	A	V
													V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Band 8 - 6875~7125MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 233 7115MHz	*	7115	77	-	-	63.69	36.39	15.28	38.36	400	187	P	H
	*	7115	66.74	-	-	53.43	36.39	15.28	38.36	400	187	A	H
		7125.02	58.25	-29.95	88.2	44.89	36.45	15.28	38.37	400	187	P	H
		7125.02	53.58	-14.62	68.2	40.22	36.45	15.28	38.37	400	187	A	H
													H
													H
	*	7115	79.36	-	-	66.05	36.39	15.28	38.36	299	180	P	V
	*	7115	81.24	-	-	67.93	36.39	15.28	38.36	299	180	A	V
		7125.02	63.39	-24.81	88.2	50.03	36.45	15.28	38.37	299	180	P	V
		7125.02	56.26	-11.94	68.2	42.9	36.45	15.28	38.37	299	180	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		13256	51.99	-22.01	74	34.12	39.76	21.26	43.15	-	-	P	H
		13256	43.93	-10.07	54	26.06	39.76	21.26	43.15	-	-	A	H
		14230	52.24	-35.96	88.2	34.23	40.17	21.98	44.14	-	-	P	H
		16064	51.79	-22.21	74	35.25	37.66	23.23	44.35	-	-	A	H
		16064	44.49	-9.51	54	27.95	37.66	23.23	44.35	-	-	P	H
		18000	54.85	-19.15	74	34.24	41.8	24.28	45.47	-	-	A	H
		18000	45.87	-8.13	54	25.26	41.8	24.28	45.47	-	-	P	H
		21345	35.22	-38.78	74	35.36	37.79	16.87	54.8	-	-	A	H
		39472	52.3	-21.7	74	37.77	44.68	26.17	56.32	-	-	P	H
		39472	42.4	-11.6	54	27.87	44.68	26.17	56.32	-	-	P	H
802.11ax													H
HE20 Full													H
CH 233		13344	54	-20	74	35.93	39.89	21.34	43.16	-	-	P	V
7115MHz		13344	45.49	-8.51	54	27.42	39.89	21.34	43.16	-	-	A	V
		14230	52.2	-36	88.2	34.19	40.17	21.98	44.14	-	-	P	V
		15376	52.22	-21.78	74	35.82	38.5	22.76	44.86	-	-	A	V
		15376	43.55	-10.45	54	27.15	38.5	22.76	44.86	-	-	P	V
		17984	56.76	-17.24	74	36.26	41.69	24.27	45.46	-	-	A	V
		17984	47.72	-6.28	54	27.22	41.69	24.27	45.46	-	-	P	V
		21344	38.75	-35.25	74	38.89	37.79	16.87	54.8	-	-	A	V
		39384	53.37	-20.63	74	39.03	44.61	26.12	56.39	-	-	P	V
		39384	43.52	-10.48	54	29.18	44.61	26.12	56.39	-	-	P	V
													V
													V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



<Sample 2>

Band 5 - 5925~6425MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11a CH 01 5955MHz		5910.68	48.74	-39.46	88.2	38.7	34.22	13.78	37.96	106	356	P	H	
		5916.84	38.08	-30.12	68.2	28.02	34.23	13.79	37.96	106	356	A	H	
	*	5955	90.14	-	-	79.98	34.28	13.85	37.97	106	356	P	H	
	*	5955	82.98	-	-	72.82	34.28	13.85	37.97	106	356	A	H	
													H	
													H	
			5907.74	48.48	-39.72	88.2	38.45	34.22	13.77	37.96	231	202	P	V
			5920.48	38.12	-30.08	68.2	28.05	34.24	13.79	37.96	231	202	A	V
	*		5955	98.67	-	-	88.51	34.28	13.85	37.97	231	202	P	V
	*		5955	91.4	-	-	81.24	34.28	13.85	37.97	231	202	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**Band 5 5925~6425MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE20 Full CH 01 5955MHz		5833.12	48.23	-39.97	88.2	38.45	34.07	13.65	37.94	102	0	P	H	
		5923.98	38.06	-30.14	68.2	27.97	34.25	13.8	37.96	102	0	A	H	
	*	5955	93.94	-	-	83.78	34.28	13.85	37.97	102	0	P	H	
	*	5955	83.44	-	-	73.28	34.28	13.85	37.97	102	0	A	H	
													H	
													H	
			5846.42	48.22	-39.98	88.2	38.41	34.09	13.67	37.95	229	202	P	V
			5922.58	38.12	-30.08	68.2	28.03	34.25	13.8	37.96	229	202	A	V
		*	5955	99.88	-	-	89.72	34.28	13.85	37.97	229	202	P	V
		*	5955	91.68	-	-	81.52	34.28	13.85	37.97	229	202	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 5 5925~6425MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE40 Full CH 03 5965MHz		5925	48.17	-40.03	88.2	38.08	34.25	13.8	37.96	103	358	P	H	
		5921.28	38.15	-30.05	68.2	28.08	34.24	13.79	37.96	103	358	A	H	
	*	5965	93.11	-	-	82.98	34.24	13.86	37.97	103	358	P	H	
	*	5965	82.84	-	-	72.71	34.24	13.86	37.97	103	358	A	H	
													H	
														H
			5812.2	47.82	-40.38	88.2	38.12	34.02	13.62	37.94	243	202	P	V
			5920.2	38.59	-29.61	68.2	28.52	34.24	13.79	37.96	243	202	A	V
		*	5965	100.38	-	-	90.25	34.24	13.86	37.97	243	202	P	V
		*	5965	91.25	-	-	81.12	34.24	13.86	37.97	243	202	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 5 5925~6425MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE80 Full CH 07 5985MHz		5891.08	48.3	-39.9	88.2	38.33	34.18	13.75	37.96	102	1	P	H	
		5919.88	38.47	-29.73	68.2	28.4	34.24	13.79	37.96	102	1	A	H	
	*	5985	95.19	-	-	85.11	34.16	13.9	37.98	102	1	P	H	
	*	5985	86.51	-	-	76.43	34.16	13.9	37.98	102	1	A	H	
													H	
													H	
			5919.4	49.74	-38.46	88.2	39.67	34.24	13.79	37.96	242	202	P	V
			5919.72	40.43	-27.77	68.2	30.36	34.24	13.79	37.96	242	202	A	V
	*		5985	101.33	-	-	91.25	34.16	13.9	37.98	242	202	P	V
	*		5985	92.66	-	-	82.58	34.16	13.9	37.98	242	202	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 5 5925~6425MHz

WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 15 6025MHz		5820.52	48.22	-39.98	88.2	38.49	34.04	13.63	37.94	100	0	P	H	
		5919.4	38.68	-29.52	68.2	28.61	34.24	13.79	37.96	100	0	A	H	
	*	6025	93.71	-	-	83.52	34.2	13.96	37.97	100	0	P	H	
	*	6025	83.67	-	-	73.48	34.2	13.96	37.97	100	0	A	H	
													H	
													H	
			5918.44	50.73	-37.47	88.2	40.66	34.24	13.79	37.96	234	204	P	V
			5919.72	41.76	-26.44	68.2	31.69	34.24	13.79	37.96	234	204	A	V
	*		6025	101.81	-	-	91.62	34.2	13.96	37.97	234	204	P	V
	*		6025	93.02	-	-	82.83	34.2	13.96	37.97	234	204	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 5 5925~6425MHz

WIFI 802.11ax HE80 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 15 6025MHz		12050	48.4	-25.6	74	32.3	39.1	20.06	43.06	100	261	P	H	
		12050	40.63	-13.37	54	24.53	39.1	20.06	43.06	100	261	A	H	
		13312	50.68	-23.32	74	32.71	39.82	21.31	43.16	-	-	P	H	
		13312	42.09	-11.91	54	24.12	39.82	21.31	43.16	-	-	A	H	
		16056	51.32	-22.68	74	34.78	37.66	23.22	44.34	-	-	P	H	
		16056	40.9	-13.1	54	24.36	37.66	23.22	44.34	-	-	A	H	
		17984	55.88	-18.12	74	35.38	41.69	24.27	45.46	-	-	P	H	
		17984	45.31	-8.69	54	24.81	41.69	24.27	45.46	-	-	A	H	
		18075	31.76	-42.24	74	35.3	37.62	14.69	55.85	-	-	P	H	
		39428	51.14	-22.86	74	36.71	44.64	26.15	56.36	-	-	P	H	
		39428	41.69	-12.31	54	27.26	44.64	26.15	56.36	-	-	A	H	
														H
			12050	49.03	-24.97	74	32.93	39.1	20.06	43.06	198	103	P	V
			12050	40.39	-13.61	54	24.29	39.1	20.06	43.06	198	103	A	V
			13344	50.78	-23.22	74	32.71	39.89	21.34	43.16	-	-	P	V
			13344	42.04	-11.96	54	23.97	39.89	21.34	43.16	-	-	A	V
			15456	51.28	-22.72	74	35.01	38.28	22.82	44.83	-	-	P	V
			15456	40.38	-13.62	54	24.11	38.28	22.82	44.83	-	-	A	V
			17936	54.95	-19.05	74	34.78	41.35	24.24	45.42	-	-	P	V
			17936	44.96	-9.04	54	24.79	41.35	24.24	45.42	-	-	A	V
		18075	31.55	-42.45	74	35.09	37.62	14.69	55.85	-	-	P	V	
		39494	51.19	-22.81	74	36.61	44.7	26.18	56.3	-	-	P	V	
		39494	41.82	-12.18	54	27.24	44.7	26.18	56.3	-	-	A	V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 47 6185MHz		12370	49.57	-24.43	74	33.36	39.03	20.41	43.23	400	16	P	H	
		12370	40.66	-13.34	54	24.45	39.03	20.41	43.23	400	16	A	H	
		13344	51.24	-22.76	74	33.17	39.89	21.34	43.16	-	-	P	H	
		13344	42.38	-11.62	54	24.31	39.89	21.34	43.16	-	-	A	H	
		15448	51.34	-22.66	74	35.06	38.31	22.81	44.84	-	-	P	H	
		15448	41.29	-12.71	54	25.01	38.31	22.81	44.84	-	-	A	H	
		17992	56.78	-17.22	74	36.23	41.74	24.27	45.46	-	-	P	H	
		17992	46	-8	54	25.45	41.74	24.27	45.46	-	-	A	H	
		18555	32.63	-41.37	74	35.44	37.94	14.81	55.56	-	-	P	H	
		39406	51.48	-22.52	74	37.11	44.62	26.13	56.38	-	-	P	H	
		39406	41.7	-12.3	54	27.33	44.62	26.13	56.38	-	-	A	H	
												P	H	
			12370	50.34	-23.66	74	34.13	39.03	20.41	43.23	201	65	P	V
			12370	40.79	-13.21	54	24.58	39.03	20.41	43.23	201	65	A	V
			13384	51.01	-22.99	74	32.85	39.97	21.36	43.17	-	-	P	V
			13384	43.32	-10.68	54	25.16	39.97	21.36	43.17	-	-	A	V
			15600	51.82	-22.18	74	35.82	37.8	22.92	44.72	-	-	P	V
			15600	41.25	-12.75	54	25.25	37.8	22.92	44.72	-	-	A	V
			17968	54.54	-19.46	74	34.15	41.58	24.26	45.45	-	-	P	V
		17968	45.83	-8.17	54	25.44	41.58	24.26	45.45	-	-	A	V	
		18555	31.91	-42.09	74	34.72	37.94	14.81	55.56	-	-	P	V	
		39406	50.65	-23.35	74	36.28	44.62	26.13	56.38	-	-	P	V	
		39406	41.61	-12.39	54	27.24	44.62	26.13	56.38	-	-	A	V	
													V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 79 6345MHz		12690	49.87	-24.13	74	32.87	39.48	20.74	43.22	396	295	P	H	
		12690	41.32	-12.68	54	24.32	39.48	20.74	43.22	396	295	A	H	
		13288	50.91	-23.09	74	32.98	39.79	21.29	43.15	-	-	P	H	
		13288	42.04	-11.96	54	24.11	39.79	21.29	43.15	-	-	A	H	
		16072	51.38	-22.62	74	34.83	37.67	23.23	44.35	-	-	P	H	
		16072	41.62	-12.38	54	25.07	37.67	23.23	44.35	-	-	A	H	
		17984	55.26	-18.74	74	34.76	41.69	24.27	45.46	-	-	P	H	
		17984	45.92	-8.08	54	25.42	41.69	24.27	45.46	-	-	A	H	
		19035	28.32	-45.68	74	30.52	38.01	14.98	55.19	-	-	P	H	
		39494	50.83	-23.17	74	36.25	44.7	26.18	56.3	-	-	P	H	
		39494	41.79	-12.21	54	27.21	44.7	26.18	56.3	-	-	A	H	
													P	H
			12690	50.24	-23.76	74	33.24	39.48	20.74	43.22	302	285	P	V
			12690	41.37	-12.63	54	24.37	39.48	20.74	43.22	302	285	A	V
			13312	51.13	-22.87	74	33.16	39.82	21.31	43.16	-	-	P	V
			13312	42.31	-11.69	54	24.34	39.82	21.31	43.16	-	-	A	V
			15448	51.52	-22.48	74	35.24	38.31	22.81	44.84	-	-	P	V
			15448	41.32	-12.68	54	25.04	38.31	22.81	44.84	-	-	A	V
			17976	55.51	-18.49	74	35.07	41.63	24.26	45.45	-	-	P	V
			17976	45.85	-8.15	54	25.41	41.63	24.26	45.45	-	-	A	V
		19035	29.11	-44.89	74	31.31	38.01	14.98	55.19	-	-	P	V	
		39340	51.25	-22.75	74	37.01	44.57	26.1	56.43	-	-	P	V	
		39340	41.55	-12.45	54	27.31	44.57	26.1	56.43	-	-	A	V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



Band 5 5925~6425MHz
WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Partial 1992/68 CH 15 6025MHz		5903.4	53.53	-34.67	88.2	43.51	34.21	13.77	37.96	100	358	P	H	
		5921.64	38.91	-29.29	68.2	28.84	34.24	13.79	37.96	100	358	A	H	
	*	6025	93.31	-	-	83.12	34.2	13.96	37.97	100	358	P	H	
	*	6025	84.83	-	-	74.64	34.2	13.96	37.97	100	358	A	H	
													H	
														H
			5908.2	59.94	-28.26	88.2	49.91	34.22	13.77	37.96	234	202	P	V
			5919.08	42.74	-25.46	68.2	32.67	34.24	13.79	37.96	234	202	A	V
	*		6025	101.81	-	-	91.62	34.2	13.96	37.97	234	202	P	V
	*		6025	92.61	-	-	82.42	34.2	13.96	37.97	234	202	A	V
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



Band 5 5925~6425MHz

WIFI 802.11ax HE160 Partial 996 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Partial 1992/68 CH 15 6025MHz		12050	48.45	-25.55	74	32.35	39.1	20.06	43.06	202	147	P	H	
		12050	40.44	-13.56	54	24.34	39.1	20.06	43.06	202	147	A	H	
		13288	51.27	-22.73	74	33.34	39.79	21.29	43.15	-	-	P	H	
		13288	42.7	-11.3	54	24.77	39.79	21.29	43.15	-	-	A	H	
		15520	51.05	-22.95	74	34.94	38.04	22.87	44.8	-	-	P	H	
		15520	41.73	-12.27	54	25.62	38.04	22.87	44.8	-	-	A	H	
		17952	55.18	-18.82	74	34.91	41.46	24.25	45.44	-	-	P	H	
		17952	45.72	-8.28	54	25.45	41.46	24.25	45.44	-	-	A	H	
		18075	32.18	-41.82	74	35.72	37.62	14.69	55.85	-	-	P	H	
		39472	49.99	-24.01	74	35.46	44.68	26.17	56.32	-	-	P	H	
		39472	41.78	-12.22	54	27.25	44.68	26.17	56.32	-	-	A	H	
														H
			12050	48.22	-25.78	74	32.12	39.1	20.06	43.06	300	319	P	V
			12050	40.49	-13.51	54	24.39	39.1	20.06	43.06	300	319	A	V
			13360	51.86	-22.14	74	33.76	39.92	21.34	43.16	-	-	P	V
			13360	43.12	-10.88	54	25.02	39.92	21.34	43.16	-	-	A	V
			15960	51.02	-22.98	74	34.71	37.52	23.17	44.38	-	-	P	V
			15960	41.67	-12.33	54	25.36	37.52	23.17	44.38	-	-	A	V
			17944	55.24	-18.76	74	35.02	41.41	24.24	45.43	-	-	P	V
			17944	45.75	-8.25	54	25.53	41.41	24.24	45.43	-	-	A	V
		18075	31.77	-42.23	74	35.31	37.62	14.69	55.85	-	-	P	V	
		39450	51.84	-22.16	74	37.36	44.66	26.16	56.34	-	-	P	V	
		39450	41.7	-12.3	54	27.22	44.66	26.16	56.34	-	-	A	V	
													V	

Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only.
---------------	--



Band 6 - 6425~6525MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		12600	51.16	-22.84	74	34.48	39.3	20.64	43.26	-	-	P	H
		12600	41.56	-12.44	54	24.88	39.3	20.64	43.26	-	-	A	H
		13010	50.82	-37.38	88.2	33.15	39.69	21.08	43.1	-	-	P	H
		15488	51.61	-22.39	74	35.44	38.15	22.84	44.82	-	-	P	H
		15488	41.58	-12.42	54	25.41	38.15	22.84	44.82	-	-	A	H
		18000	55.4	-18.6	74	34.79	41.8	24.28	45.47	-	-	P	H
		18000	46.29	-7.71	54	25.68	41.8	24.28	45.47	-	-	A	H
		19515	30.65	-43.35	74	32.19	37.71	15.75	55	-	-	P	H
		39428	51.43	-22.57	74	37	44.64	26.15	56.36	-	-	P	H
		39428	41.65	-12.35	54	27.22	44.64	26.15	56.36	-	-	A	H
802.11ax													H
HE160 Full													H
CH 111		11104	51.04	-22.96	74	34.93	38.7	19.28	41.87	-	-	P	V
6505MHz		11104	40.63	-13.37	54	24.52	38.7	19.28	41.87	-	-	A	V
		13010	50.14	-38.06	88.2	32.47	39.69	21.08	43.1	-	-	P	V
		15640	50.87	-23.13	74	34.85	37.76	22.95	44.69	-	-	P	V
		15640	41.06	-12.94	54	25.04	37.76	22.95	44.69	-	-	A	V
		17992	55.46	-18.54	74	34.91	41.74	24.27	45.46	-	-	P	V
		17992	45.67	-8.33	54	25.12	41.74	24.27	45.46	-	-	A	V
		19515	30.65	-43.35	74	32.19	37.71	15.75	55	-	-	P	V
		39406	52.36	-21.64	74	37.99	44.62	26.13	56.38	-	-	P	V
		39406	41.64	-12.36	54	27.27	44.62	26.13	56.38	-	-	A	V
													V
													V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Band 7 - 6525~6875MHz

WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE160 Full CH 143 6665MHz		12544	50.53	-23.47	74	33.98	39.24	20.59	43.28	-	-	P	H
		12544	41.37	-12.63	54	24.82	39.24	20.59	43.28	-	-	A	H
		13330	50.14	-23.86	74	32.12	39.86	21.32	43.16	301	325	P	H
		13330	42.33	-11.67	54	24.31	39.86	21.32	43.16	301	325	A	H
		15424	51.58	-22.42	74	35.22	38.4	22.8	44.84	-	-	P	H
		15424	41.71	-12.29	54	25.35	38.4	22.8	44.84	-	-	A	H
		17944	54.67	-19.33	74	34.45	41.41	24.24	45.43	-	-	P	H
		17944	45.69	-8.31	54	25.47	41.41	24.24	45.43	-	-	A	H
		19995	29.04	-44.96	74	29.91	37.51	16.52	54.9	-	-	P	H
		39384	51.86	-22.14	74	37.52	44.61	26.12	56.39	-	-	P	H
		39384	41.56	-12.44	54	27.22	44.61	26.12	56.39	-	-	A	H
													H
		10992	50.69	-23.31	74	34.45	38.71	19.19	41.66	-	-	P	V
		10992	40.9	-13.1	54	24.66	38.71	19.19	41.66	-	-	A	V
		13330	49.77	-24.23	74	31.75	39.86	21.32	43.16	396	231	P	V
		13330	42.18	-11.82	54	24.16	39.86	21.32	43.16	396	231	A	V
		15608	51.41	-22.59	74	35.41	37.79	22.93	44.72	-	-	P	V
		15608	41.39	-12.61	54	25.39	37.79	22.93	44.72	-	-	A	V
		17912	55.12	-18.88	74	35.13	41.18	24.22	45.41	-	-	P	V
		17912	45.77	-8.23	54	25.78	41.18	24.22	45.41	-	-	A	V
	19995	30.25	-43.75	74	31.12	37.51	16.52	54.9	-	-	P	V	
	39538	51.02	-22.98	74	36.4	44.67	26.21	56.26	-	-	P	V	
	39538	41.86	-12.14	54	27.24	44.67	26.21	56.26	-	-	A	V	
												V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 175 6825MHz		11736	51.04	-22.96	74	35.47	38.6	19.8	42.83	-	-	P	H	
		11736	40.8	-13.2	54	25.23	38.6	19.8	42.83	-	-	A	H	
		13650	52.76	-35.44	88.2	34.66	40	21.56	43.46	-	-	P	H	
		15616	51.47	-22.53	74	35.47	37.78	22.93	44.71	-	-	P	H	
		15616	41.39	-12.61	54	25.39	37.78	22.93	44.71	-	-	A	H	
		17984	55.84	-18.16	74	35.34	41.69	24.27	45.46	-	-	P	H	
		17984	46.22	-7.78	54	25.72	41.69	24.27	45.46	-	-	A	H	
		20475	32.22	-41.78	74	32.44	37.98	16.7	54.9	-	-	P	H	
		39384	51.38	-22.62	74	37.04	44.61	26.12	56.39	-	-	P	H	
		39384	41.58	-12.42	54	27.24	44.61	26.12	56.39	-	-	A	H	
														H
														H
			12552	50.58	-23.42	74	34.01	39.25	20.6	43.28	-	-	P	V
			12552	41.23	-12.77	54	24.66	39.25	20.6	43.28	-	-	A	V
			13650	51.68	-36.52	88.2	33.58	40	21.56	43.46	-	-	P	V
			15944	50.96	-23.04	74	34.7	37.49	23.16	44.39	-	-	P	V
			15944	41.64	-12.36	54	25.38	37.49	23.16	44.39	-	-	A	V
			17984	54.42	-19.58	74	33.92	41.69	24.27	45.46	-	-	P	V
			17984	45.98	-8.02	54	25.48	41.69	24.27	45.46	-	-	A	V
			20464	32.28	-41.72	74	32.52	37.97	16.69	54.9	-	-	P	V
		39406	50.91	-23.09	74	36.54	44.62	26.13	56.38	-	-	P	V	
		39406	41.63	-12.37	54	27.26	44.62	26.13	56.38	-	-	A	V	
													V	
													V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only. The emission level close to 18GHz is checked that the average emission level is noise floor only. 													



Band 8 - 6875~7125MHz
WIFI 802.11a (Band Edge @ 3m)

Table with 14 columns: WIFI Ant. 1+2, Note, Frequency (MHz), Level (dBµV/m), Over Limit (dB), Limit Line (dBµV/m), Read Level (dBµV), Antenna Factor (dB/m), Path Loss (dB), Preamp Factor (dB), Ant Pos (cm), Table Pos (deg), Peak Avg. (P/A), Pol. (H/V). Rows include test data for 802.11a CH 233 7115MHz and a Remark section.



Band 8 - 6875~7125MHz
WIFI 802.11ax HE20 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 233 7115MHz	*	7115	84.12	-	-	70.81	36.39	15.28	38.36	400	170	P	H
	*	7115	75.71	-	-	62.4	36.39	15.28	38.36	400	170	A	H
		7125.02	70.77	-17.43	88.2	57.41	36.45	15.28	38.37	400	170	P	H
		7125.02	62.42	-5.78	68.2	49.06	36.45	15.28	38.37	400	170	A	H
													H
													H
	*	7115	90.38	-	-	77.07	36.39	15.28	38.36	212	204	P	V
	*	7115	81.58	-	-	68.27	36.39	15.28	38.36	212	204	A	V
		7125.16	75.69	-12.51	88.2	62.33	36.45	15.28	38.37	212	204	P	V
		7125.02	67.54	-0.66	68.2	54.18	36.45	15.28	38.37	212	204	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE40 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 227 7085MHz	*	7085	87.25	-	-	74.09	36.24	15.26	38.34	103	0	P	H
	*	7085	78.58	-	-	65.42	36.24	15.26	38.34	103	0	A	H
		7147.8	51.81	-36.39	88.2	38.32	36.59	15.29	38.39	103	0	P	H
		7239.06	41.85	-26.35	68.2	28	36.96	15.36	38.47	103	0	A	H
													H
													H
	*	7085	98.33	-	-	85.17	36.24	15.26	38.34	202	204	P	V
	*	7085	89.91	-	-	76.75	36.24	15.26	38.34	202	204	A	V
		7173.18	52.39	-35.81	88.2	38.8	36.69	15.31	38.41	202	204	P	V
		7245	41.88	-26.32	68.2	28	36.98	15.37	38.47	202	204	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE80 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 215 7025MHz	*	7025	91.75	-	-	78.86	35.95	15.23	38.29	100	0	P	H
	*	7025	82.17	-	-	69.28	35.95	15.23	38.29	100	0	A	H
		7231.74	51.78	-36.42	88.2	37.95	36.93	15.36	38.46	100	0	P	H
		7241.62	41.86	-26.34	68.2	27.99	36.97	15.37	38.47	100	0	A	H
													H
													H
	*	7025	101.78	-	-	88.89	35.95	15.23	38.29	206	202	P	V
	*	7025	92.47	-	-	79.58	35.95	15.23	38.29	206	202	A	V
		7157.9	52.99	-35.21	88.2	39.46	36.63	15.3	38.4	206	202	P	V
		7242.4	42.13	-26.07	68.2	28.26	36.97	15.37	38.47	206	202	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Full CH 207 6985MHz	*	6985	92.73	-	-	79.98	35.8	15.2	38.25	100	0	P	H
	*	6985	82.38	-	-	69.63	35.8	15.2	38.25	100	0	A	H
		7133.8	51.86	-36.34	88.2	38.45	36.5	15.29	38.38	100	0	P	H
		7137.96	41.78	-26.42	68.2	28.34	36.53	15.29	38.38	100	0	A	H
													H
													H
	*	6985	101.58	-	-	88.83	35.8	15.2	38.25	236	183	P	V
	*	6985	92.88	-	-	80.13	35.8	15.2	38.25	236	183	A	V
		7140.2	56.34	-31.86	88.2	42.89	36.54	15.29	38.38	236	183	P	V
		7131.56	46.89	-21.31	68.2	33.49	36.49	15.29	38.38	236	183	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Full CH 207 6985MHz		11992	50.73	-23.27	74	34.76	38.99	20	43.02	-	-	P	H	
		11992	40.56	-13.44	54	24.59	38.99	20	43.02	-	-	A	H	
		13970	53.32	-34.88	88.2	35.35	40.21	21.81	44.05	-	-	P	H	
		15616	51.49	-22.51	74	35.49	37.78	22.93	44.71	-	-	P	H	
		15616	41.71	-12.29	54	25.71	37.78	22.93	44.71	-	-	A	H	
		17984	54.47	-19.53	74	33.97	41.69	24.27	45.46	-	-	P	H	
		17984	45.35	-8.65	54	24.85	41.69	24.27	45.46	-	-	A	H	
		20955	31.12	-42.88	74	31.11	37.96	16.86	54.81	-	-	P	H	
		39406	51.58	-22.42	74	37.21	44.62	26.13	56.38	-	-	P	H	
		39406	41.59	-12.41	54	27.22	44.62	26.13	56.38	-	-	A	H	
														H
														H
			11240	51.2	-22.8	74	35.1	38.84	19.4	42.14	-	-	P	V
			11240	41.02	-12.98	54	24.92	38.84	19.4	42.14	-	-	A	V
			13970	52.25	-35.95	88.2	34.28	40.21	21.81	44.05	-	-	P	V
			15368	51.53	-22.47	74	35.13	38.5	22.76	44.86	-	-	P	V
			15368	41.66	-12.34	54	25.26	38.5	22.76	44.86	-	-	A	V
			17928	54.59	-19.41	74	34.48	41.3	24.23	45.42	-	-	P	V
			17928	45.88	-8.12	54	25.77	41.3	24.23	45.42	-	-	A	V
			20955	32.02	-41.98	74	32.01	37.96	16.86	54.81	-	-	P	V
		39516	51.59	-22.41	74	36.99	44.69	26.19	56.28	-	-	P	V	
		39516	41.89	-12.11	54	27.29	44.69	26.19	56.28	-	-	A	V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Band 8 - 6875~7125MHz

WIFI 802.11ax HE160 Partial 1992 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE160 Partial 1992/S68 CH 207 6985MHz	*	6985	92.02	-	-	79.27	35.8	15.2	38.25	100	0	P	H
	*	6985	81.62	-	-	68.87	35.8	15.2	38.25	100	0	A	H
		7137	55.82	-32.38	88.2	42.39	36.52	15.29	38.38	100	0	P	H
		7137.64	42.12	-26.08	68.2	28.68	36.53	15.29	38.38	100	0	A	H
													H
													H
	*	6985	102.78	-	-	90.03	35.8	15.2	38.25	234	184	P	V
	*	6985	92.41	-	-	79.66	35.8	15.2	38.25	234	184	A	V
		7138.92	68.97	-19.23	88.2	55.53	36.53	15.29	38.38	234	184	P	V
		7133.8	48.83	-19.37	68.2	35.42	36.5	15.29	38.38	234	184	A	V
												V	
												V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 8 - 6875~7125MHz

WIFI 802.11ax HE160 Partial 1992 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)	
802.11ax HE160 Partial 1992/S68 CH 207 6985MHz		11080	51.16	-22.84	74	35.01	38.7	19.27	41.82	-	-	P	H	
		11080	41.15	-12.85	54	25	38.7	19.27	41.82	-	-	A	H	
		13970	52.27	-35.93	88.2	34.3	40.21	21.81	44.05	-	-	P	H	
		15440	51.02	-22.98	74	34.71	38.34	22.81	44.84	-	-	P	H	
		15440	41.69	-12.31	54	25.38	38.34	22.81	44.84	-	-	A	H	
		17976	55.73	-18.27	74	35.29	41.63	24.26	45.45	-	-	P	H	
		17976	46.09	-7.91	54	25.65	41.63	24.26	45.45	-	-	A	H	
		20955	32.25	-41.75	74	32.24	37.96	16.86	54.81	-	-	P	H	
		38636	51.85	-22.15	74	39.85	43.05	25.87	56.92	-	-	P	H	
		38636	39.22	-14.78	54	27.22	43.05	25.87	56.92	-	-	A	H	
														H
														H
			11712	50.87	-23.13	74	35.31	38.6	19.78	42.82	-	-	P	V
			11712	40.55	-13.45	54	24.99	38.6	19.78	42.82	-	-	A	V
			13970	52	-36.2	88.2	34.03	40.21	21.81	44.05	-	-	P	V
			16072	52.62	-21.38	74	36.07	37.67	23.23	44.35	-	-	P	V
			16072	42.44	-11.56	54	25.89	37.67	23.23	44.35	-	-	A	V
			17968	54.92	-19.08	74	34.53	41.58	24.26	45.45	-	-	P	V
			17968	45.88	-8.12	54	25.49	41.58	24.26	45.45	-	-	A	V
			20955	30.6	-43.4	74	30.59	37.96	16.86	54.81	-	-	P	V
		39406	50.83	-23.17	74	36.46	44.62	26.13	56.38	-	-	P	V	
		39406	42.01	-11.99	54	27.64	44.62	26.13	56.38	-	-	A	V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.
- The emission position marked as "-" means no suspected emission found with sufficient margin against limit line or noise floor only.
- The emission level close to 18GHz is checked that the average emission level is noise floor only.



Emission below 1GHz

WIFI 802.11ax HE20 Full (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)	
802.11ax HE20 Full LF		56.19	31.39	-8.61	40	53.01	12.44	1.57	35.63	-	-	P	H	
		99.84	24.08	-19.42	43.5	41.62	15.95	2.03	35.52	-	-	P	H	
		256.01	26.57	-19.43	46	39.34	19.4	3.1	35.27	-	-	P	H	
		340.4	33.95	-12.05	46	45.31	20.15	3.52	35.03	-	-	P	H	
		425.76	29.28	-16.72	46	37.3	22.83	3.95	34.8	-	-	P	H	
		729.37	36.14	-9.86	46	37.61	27.26	5.09	33.82	-	-	P	H	
														H
														H
														H
														H
														H
														H
			31.94	23.63	-16.37	40	34.59	23.49	1.21	35.66	-	-	P	V
			56.19	25.9	-14.1	40	47.52	12.44	1.57	35.63	-	-	P	V
			198.78	23.82	-19.68	43.5	41.58	14.87	2.75	35.38	-	-	P	V
			340.4	32.75	-13.25	46	44.11	20.15	3.52	35.03	-	-	P	V
			729.37	34.4	-11.6	46	35.87	27.26	5.09	33.82	-	-	P	V
			957.32	35.83	-10.17	46	32.13	30.66	6	32.96	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	

Remark

- No other spurious found.
- All results are PASS against limit line.
- The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	Peak or Average
H/V	Horizontal or Vertical



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5925	55.45	-32.75	88.2	54.51	32.22	4.58	35.86	103	308	P	H
CH 01		5925	43.54	-24.66	68.2	42.6	32.22	4.58	35.86	103	308	A	H
5955MHz													

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5925MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -32.75(dB)

For Average Limit @ 5925MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -24.66(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Bill Chang, JC Liang, and Bigshow Wang	Temperature :	18~20°C
		Relative Humidity :	68~70%
Remark: For Radiated Spurious Emission Test Items, Ant. 1 means Chain 1 (Aux.) and Ant. 2 means Chain 2 (Main)			

<Sample 1>

Band 5 - 5925~6425MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

WIFI	Band 5 5925~6425MHz Harmonic @ 3m	
ANT	802.11ax HE160 Full CH79 6345MHz	
1+2	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH20-HY Condition : PEAK(UNIT)_6E 1m SHF_00993_211130 HORIZONTAL Detector : Peak</p>	<p>Site : 03CH20-HY Condition : PEAK(UNIT)_6E 1m SHF_00993_211130 VERTICAL Detector : Peak</p>



Band 6 - 6425~6525MHz
WIFI 802.11ax HE160 Full (Harmonic @ 3m)

Table with 3 columns: WIFI, ANT, and 1+2. The 1+2 column contains two sub-tables for Horizontal and Vertical antenna orientations, each with a spectral plot and test parameters.