



FCC RADIO TEST REPORT

FCC ID	:	PY321100529
Equipment	:	Netgear 5G MHS Travel Router
Brand Name	:	Netgear
Model Name	:	MR6500
Applicant	:	Netgear Inc 350 E. Plumeria Drive, San Jose, CA 95134, United States
Manufacturer	:	Netgear Inc 350 E. Plumeria Drive, San Jose, CA 95134, United States
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Nov. 03, 2021 and testing was performed from Nov. 03, 2021 to Jan. 29, 2022. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Win

Approved by: Louis Wu Sporton International Inc. EMC & Wireless Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR190614D	01	Initial issue of report	Jan. 29, 2022
FR190614D	02	Revise frequency typo for ch 233 and sample received date.	Jan. 29, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(8)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	
3.6	15.407(b)	Unwanted Emissions	Pass	0.31 dB under the limit at 7125.020 MHz
3.7	15.207	AC Conducted Emission	Pass	9.81 dB under the limit at 0.607 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

 The test results (PASS/FAIL) with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.

. The measurement uncertainty please refer to report "Uncertainty of Evaluation"

Comments and Explanations:

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Avis Chuang Report Producer: Cindy Liu



1 General Description

1.1 Product Feature of Equipment Under Test

LTE/5G NR, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax, and GPS

Product Feature				
	WWAN:			
	<ant. 1="">: Monopole Antenna</ant.>			
	<ant. 2="">: Monopole Antenna</ant.>			
Antenna Type	WLAN:			
	<ant. 3="">: Monopole Antenna</ant.>			
	<ant. 4="">: Monopole Antenna</ant.>			
	GPS: PIFA Antenna			
Antenna information				

Antenna information					
5925 MHz ~ 6425 MHz					
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Ant. 3: 3.40			
6525 MHz ~ 6875 MHz		Ant. 4: 1.54			
6875 MHz ~ 7125 MHz					

Remark:

- 1. The above EUT's information is declared by manufacturer. Please refer to Comments and Explanations in report summary.
- 2. The device supports Wi-Fi 6E AP mode, only when the device is connected to the charger to AC mains. The device does not support partial RU configuration.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory			
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978			
Test Site No.	Sporton Site No. CO05-HY, 03CH07-HY, DF02-HY			

Note: The test site complies with ANSI C63.4 2014 requirement.

Test Site	Sporton International Inc. Wensan Laboratory				
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855				
Test Site No.	Sporton Site No.				
Test Sile NO.	TH05-HY (TAF Code: 3786)				
Remark The Conducted test item subcontracted to Sporton International Inc. Laboratory.					

FCC designation No.: TW1190 and TW3786

1.4 Applicable Standards

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

- + FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- + FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- + ANSI C63.10-2013

Remark:

- 1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.
- 3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, , the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

DW OOM	Channel	1	5	9	13	17	21	25	29
BW 20M	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3	3	1	1	1	9	2	7
	Freq. (MHz)	59	65	60	05	60	45	60	85
BW 80M	Channel		7	7			2	3	
D VV OUIVI	Freq. (MHz)		59	85			60	65	
BW 160M	Channel	15							
BW TOOW	Freq. (MHz))25			
					1				1
	Channel	33	37	41	45	49	53	57	61
BW 20M	Channel Freq. (MHz)	33 6115	37 6135	41 6155	45 6175	49 6195	53 6215	57 6235	61 6255
		6115		6155		6195		6235	
BW 20M BW 40M	Freq. (MHz)	6115 3	6135	6155 4	6175	6195 5	6215	6235 5	6255
BW 40M	Freq. (MHz) Channel	6115 3	6135 5 25	6155 4	6175 3	6195 5	6215 51 205	6235 5	6255 9
	Freq. (MHz) Channel Freq. (MHz)	6115 3	6135 5 25 3	6155 4 61	6175 3	6195 5	6215 51 205 5	6235 5 62	6255 9
BW 40M	Freq. (MHz) Channel Freq. (MHz) Channel	6115 3	6135 5 25 3	6155 4 61	6175 3	6195 5 62	6215 51 205 5	6235 5 62	6255 9



BW 20M	Channel	65	69	73	77	81	85	89	93				
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415				
BW 40M	Channel	6	7	7	75		3	9	1				
Brition	Freq. (MHz)	62	85	63	25	63	65	64	05				
BW 80M	Channel		7	1			8	7					
Britoom	Freq. (MHz)		63	05			63	85					
BW 160M	Channel				7	9							
BW TOOM	Freq. (MHz)				63	45							
DW COM	Channel	97	101	105	109	113	117	121	125				
BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575				
	Channel	9	9	1()7	1	15	12	23				
BW 40M	Freq. (MHz)	64	45	64	85	65	25	65	65				
BW 80M	Channel		1(03			11	19					
	Freq. (MHz)		64	65		6545							
BW 160M	Channel	111											
BW IOUW	Freq. (MHz)				6505								
BW 20M	Channel	129	133	137	141	145	149	153	157				
BVV ZUIVI	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735				
BW 40M	Channel	13	31	13	39	14	47	15	155				
B V 40 VI	Freq. (MHz)	6605 6645			45	66	85	67	25				
BW 80M	Channel	135					15	51					
DAA OOM	Freq. (MHz)		66	25		6705							
BW 160M	Channel				14	43							
BW Room	Freq. (MHz)	6665											
DWGGM	Channel	161	165	169	173	177	181	185	189				
BW 20M	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895				
	Channel	16	63	17	71	1	79	18	37				
BW 40M	Freq. (MHz)	67	65	68	05	68	45	68	85				
	Channel		10	67			18	33					
DW OOM	onamoi												
BW 80M	Freq. (MHz)		67	85	6785 6865								
BW 80M			67	85	17	75	68	65					



BW 20M	Channel	193	197	201	205	209	213	217	221
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055
BW 40M	Channel	19	95	20)3	21	1	2 ⁻	19
	Freq. (MHz)	69	25	69	65	70	05	70	45
BW 80M	Channel		19	99			2′	15	
	Freq. (MHz)		69	45			70	25	
BW 160M	Channel	207							
DAA LOOIAI	Freq. (MHz)	6985							
DW/ 20M	Channel	225 229							
BW 20M	Freq. (MHz)	7075 709						95	
BW 40M	Channel	227							
	Freq. (MHz)	7085							
					0(
BW 20M	Channel		233						
2 2011	Freq. (MHz)		7115						

2.2 Test Mode

The final test modes consider the modulation and the worst data rates as shown in the table below.

EUT supports AP mode and client mode. The same output power level is used on the two modes. Due to the limit of the client mode is more restrictive than the AP mode, the client mode test data also shows the compliance of the AP mode. Therefore, this report only shows the test data of client mode.

For AP mode is available only when the device is powered by AC adapter connected to AC mains, also illustrated in the user manual.

	Modulation	Data Rate					
	802.11a	6 Mbps					
	802.11ax HE20	MCS0					
	802.11ax HE40	MCS0					
	802.11ax HE80	MCS0					
	802.11ax HE160	MCS0					
	Test Cases						
AC Conducted Emission Mode 1 : LTE Band 5 Idle + WLAN (6GHz) Link – Client + LAN Link + USB Cable (Charging from AC Adapter 1) + Battery							
Remark: For	Radiated Test Cases, the tests were	e performed with Adapter 1.					



Ch. #		UNII-5 (5925-6425 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE20	802.11ax HE20
L	Low	001	-
М	Middle	-	-
Н	High	-	233
Ś	Straddle	-	-

	Ch. #	UNII-5 (5925-6425 MHz) 802.11ax HE40	UNII-8 (6875-7125 MHz) 802.11ax HE40
L	Low	003	-
М	Middle	-	-
н	High	-	227
S	Straddle	-	-

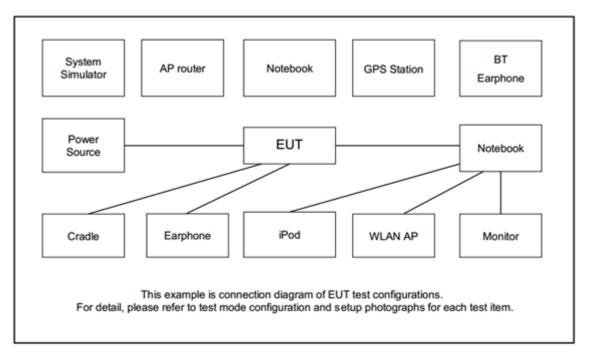
Ch. #		UNII-5 UNII-8 (5925-6425 MHz) (6875-7125 MHz)	
		802.11ax HE80	802.11ax HE80
L	Low	007	-
М	Middle	-	-
н	High	-	215
Ś	Straddle	-	-

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)	
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160	
L	Low	015				
М	Middle	047	-	143	207	
н	High	079				
Straddle		-	111	175	-	

Remark: For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.



2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	5G Wireless Test Platform	Anritsu	MT8000A	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	PC	msi	A9SC-856TW	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m



2.5 EUT Operation Test Setup

The RF test items, utility "QSPR Version 5.0-00188" was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)



3 **Test Result**

The device TX power level is identical between AP mode and client mode, for the test items which associates with different limit for 6ID and 6XD, since the requirement is more stringent in 6XD, the test data has justified the device passing the 6XD limit for compliance for both 6ID and 6XD.

3.1 26dB & 99% Occupied Bandwidth Measurement

3.1.1 Limit of 26dB & 99% Occupied Bandwidth

<FCC 14-30 CFR 15.407>

(a)(10) The maximum transmitter channel bandwidth for U-NII devices in the 5.925-7.125 GHz band is 320 megahertz.

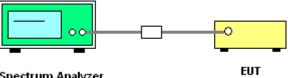
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
- 2. Set RBW = approximately 1% of the emission bandwidth.
- 3. Set the VBW > RBW.
- 4. Detector = Peak.
- 5. Trace mode = max hold
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 7. 1-5% of the emission bandwidth and set the Video bandwidth (VBW) \ge 3 * RBW.
- Measure and record the results in the test report. 8.

3.1.4 Test Setup



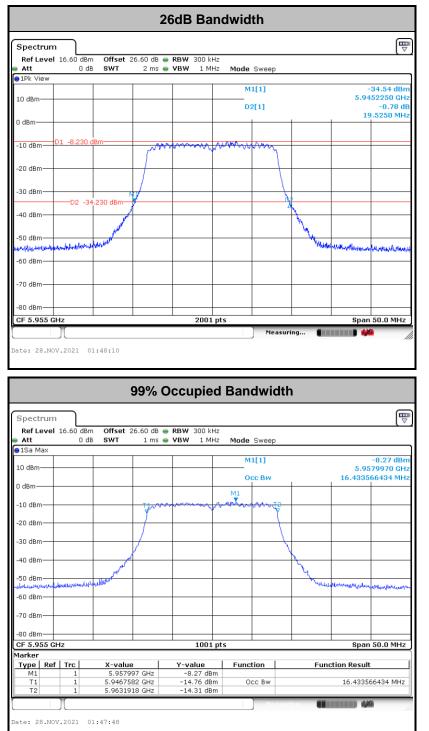
Spectrum Analyzer

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



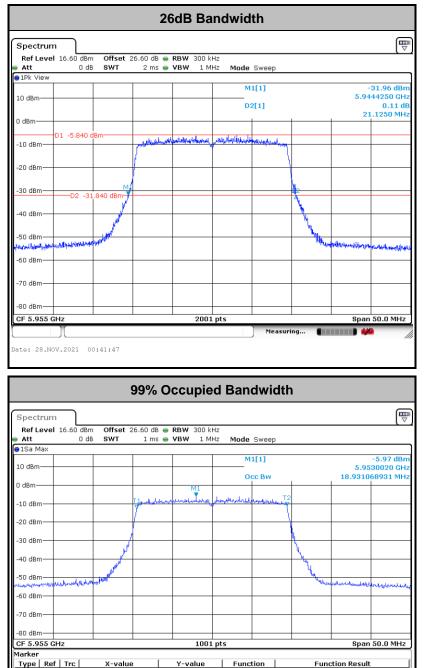
For 802.11a MHz



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



For 802.11ax HE 20 MHz



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

-5.97 dBm -12.76 dBm -11.32 dBm

Occ Bw

953002 GHz

5.9455095 GHz 5.9644406 GHz

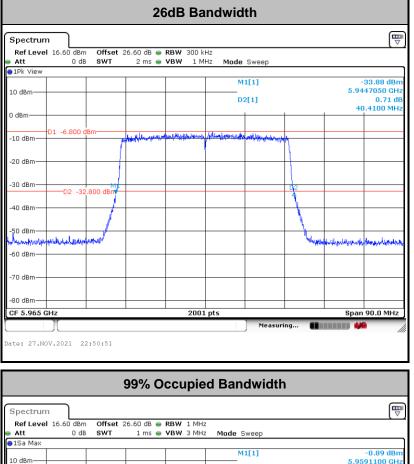
T1 T2

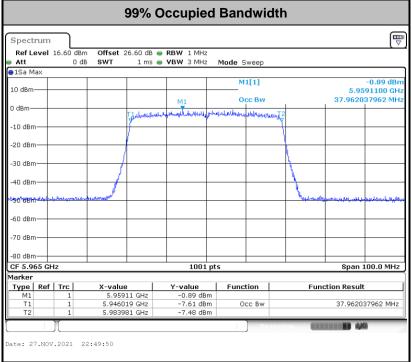
Date: 28.NOV.2021 00:41:26

18.931068931 MHz



For 802.11ax HE 40 MHz

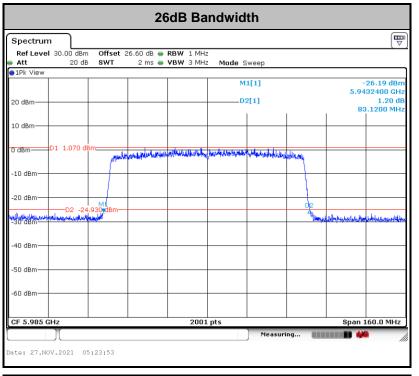


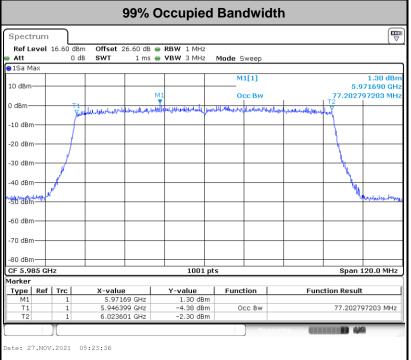


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



For 802.11ax HE 80 MHz

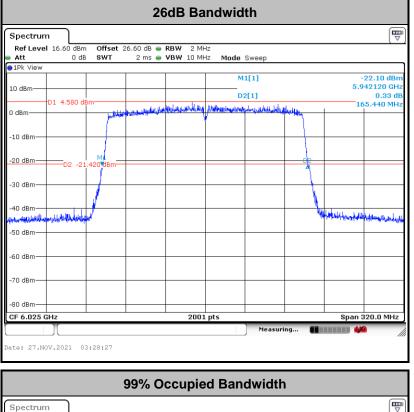


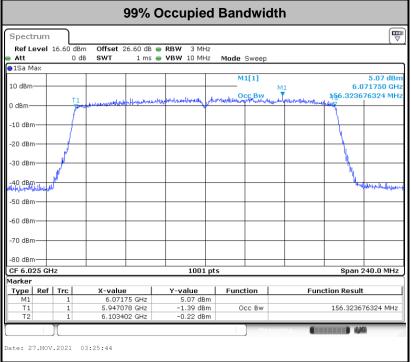


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



For 802.11ax HE 160 MHz





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm. (a)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over

(a)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

3.2.2 Measuring Instruments

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

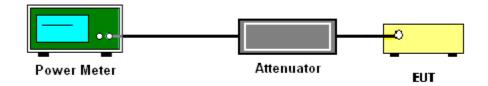
3.2.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

- 1. Measurement is performed using a wideband RF power meter.
- 2. The EUT is configured to transmit at its maximum power control level.
- 3. Measure the average power of the transmitter.
- 4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
- 5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

(a)(8) For client devices operating under the control of an indoor access point in the 5.925-7.125 GHz bands, the maximum power spectral density must not exceed -1 dBm e.i.r.p. in any 1-megahertz band.

(a)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band.

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Section F) Maximum power spectral density.

Method SA-3

(power averaging (rms) detection with max hold):

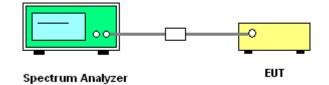
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
 Detector = power averaging (rms).
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.
- 1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
- 3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (a): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points; the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.



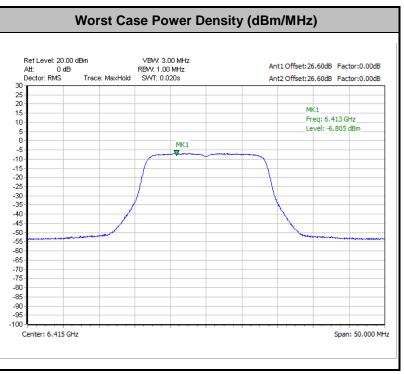
3.3.4 Test Setup



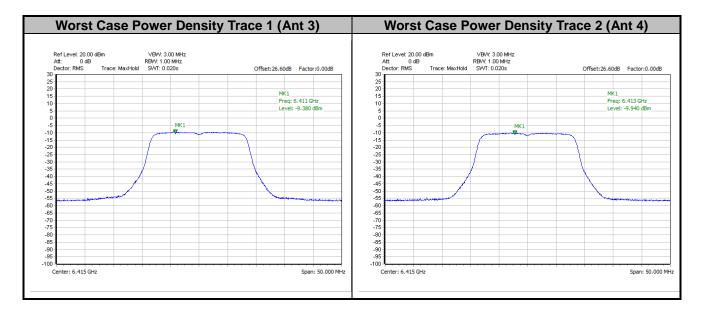
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

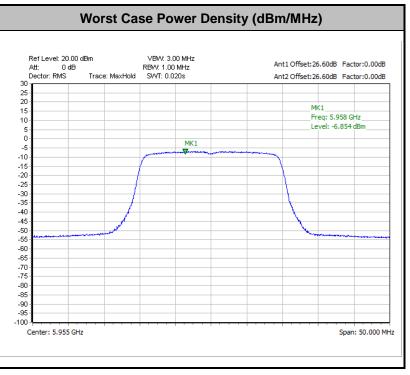




<802.11a Mode>

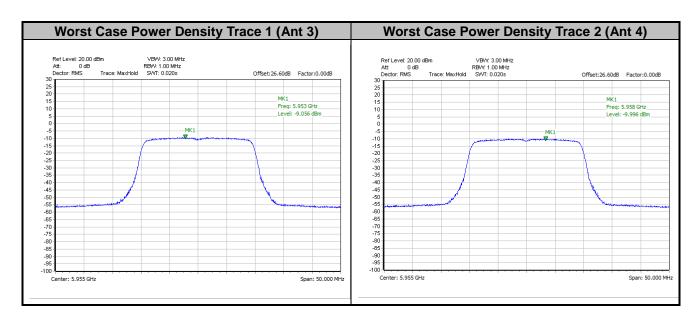




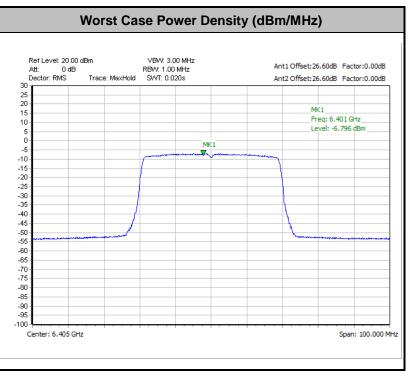


<802.11ax HE20 Mode>

Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

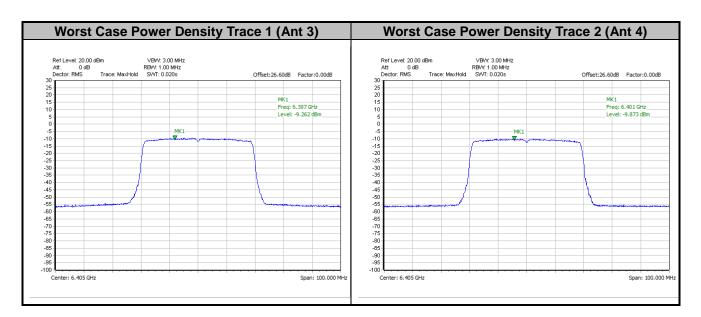




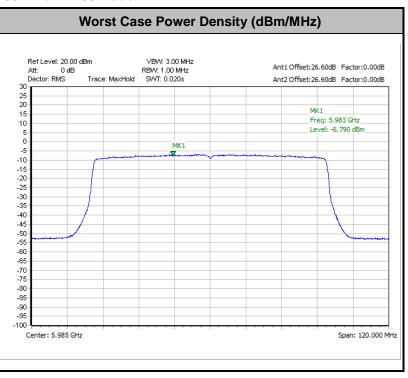


<802.11ax HE40 Mode>

Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

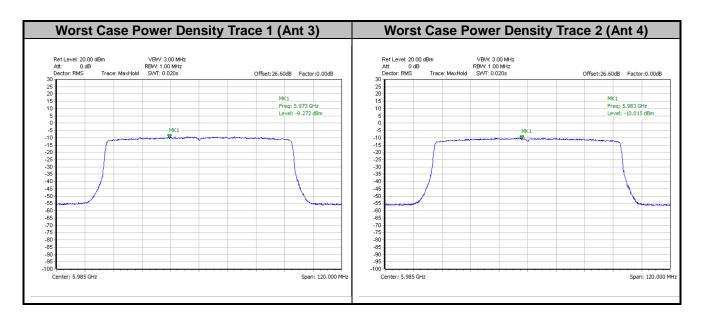




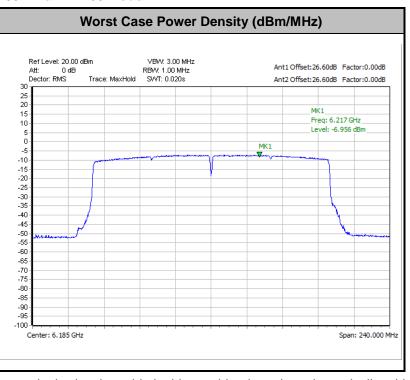


<802.11ax HE80 Mode>

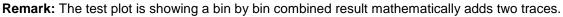
Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

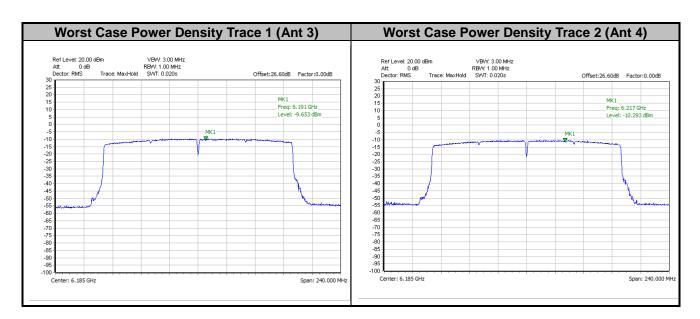






<802.11ax HE160 Mode>







3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(a)(6) For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

3.4.2 Measuring Instruments

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



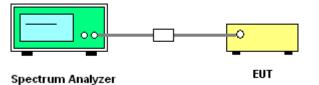
3.4.3 Test Procedures

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

Section J) In-Band Emissions.

- 1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
- 2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW ≥ 3 X RBW
 - d) Number of points in sweep \geq [2 X span / RBW].
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
- 3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- 4. Adjust the span to encompass the entire mask as necessary.
- 5. Clear trace.
- 6. Trace average at least 100 traces in power averaging (rms) mode.
- 7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup





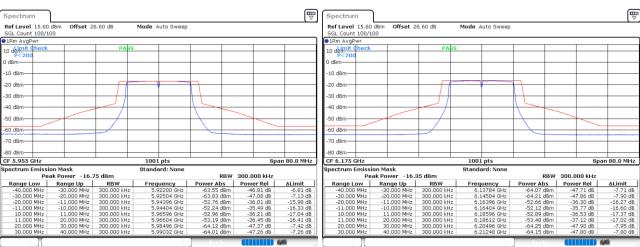
802.11a

3.4.5 Test Result

MIMO <Ant. 3+4(3)>

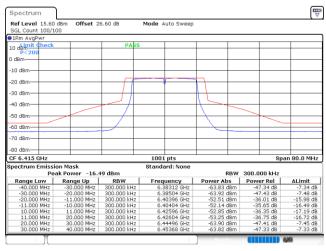
EUT Mode :

Plot on Channel 5955MHz



Date: 28.NOV.2021 01:48:48

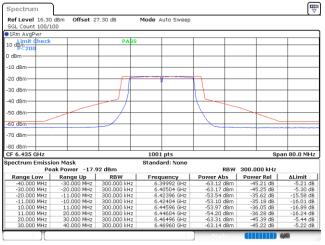
Plot on Channel 6415MHz



Date: 20.NOV.2021 01:53:25

Plot on Channel 6175MHz

Plot on Channel 6435MHz

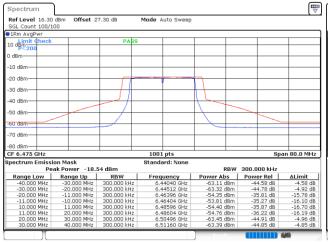


Date: 28.NOV.2021 01:58:01

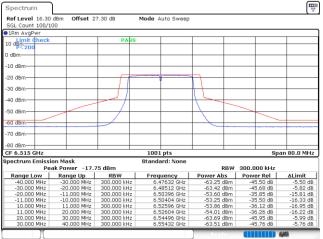
Date: 28.NOV.2021 02:02:13



Plot on Channel 6475MHz



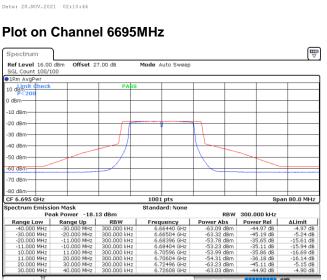
Plot on Channel 6515MHz



Date: 28.NOV.2021 02:06:32

Plot on Channel 6535MHz

Spectrum Ref Level 16.10 dBm Offset 27.10 dB Mode Auto Sweep SGL Count PAS 1 dBi -10 dBm -20 dBm--30 dBm 40 dBm -50 dBm -60 dBm-70 dBm 80 dBr F 6.535 GHz Span 80.0 MHz 1001 pts pectrum Emission Mask Peak Powe -18.06 d 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Frequency Power Abs Power Rel <u>∆Limit</u> .49776 GHz .50504 GHz .52396 GHz .52404 GHz .54596 GHz .54604 GHz .56496 GHz .57440 GHz -45.52 dB -45.65 dB -35.60 dB -35.17 dB -36.05 dB -36.48 dB -45.82 dB -45.82 dB -63.58 dBm -53.66 dBm -53.23 dBm -54.11 dBm -54.55 dBm -63.89 dBm -63.59 dBm MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz dB dB dB dB dB dB dB dB dB MHZ MHZ MHZ MHZ MHZ MHZ .56496 .57440

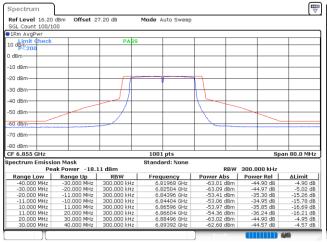


Date: 28.NOV.2021 02:14:29

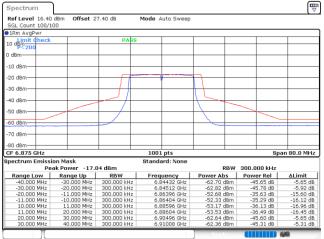
Date: 28.NOV.2021 02:19:14



Plot on Channel 6855MHz



Plot on Channel 6875MHz



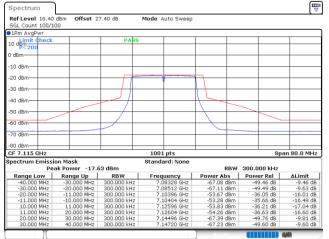
Date: 28.NOV.2021 02:24:00

Plot on Channel 6995MHz

₽ Spectrum Ref Level 16.40 dBm Offset 27.40 dB Mode Auto Sweep SGL Cours 1Rm AvgF PAS a h r -10 dBm -20 dBm--30 dBm 40 dBm 50 dBm -60 dBm-70 dBm 80 dBm F 6.995 GHz Span 80.0 MHz 1001 pts pectrum Emission Mask Peak Powe -17.52 d 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 -4.54 -4.77 -15.35 -15.82 Range Low -30.000 MH Freque -62.06 dBm -44.54 dB тсу 5.96128 GHz 5.96504 GHz 5.98396 GHz 5.98404 GHz 7.00596 GHz 7.00612 GHz 7.02496 GHz 7.02552 GHz -62.06 dBm -62.24 dBm -52.91 dBm -52.51 dBm -53.88 dBm -54.43 dBm -67.05 dBm -66.86 dBm -44.54 dB -44.72 dB -35.39 dB -36.36 dB -36.91 dB -49.53 dB -49.34 dB -4.54 dB -4.77 dB 15.35 dB 15.82 dB 17.20 dB 16.80 dB -9.57 dB -9.34 dB MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ

Plot on Channel 7115MHz

Date: 28.NOV.2021 02:27:32



Date: 28.NOV.2021 02:30:58

Date: 28.NOV.2021 02:34:31

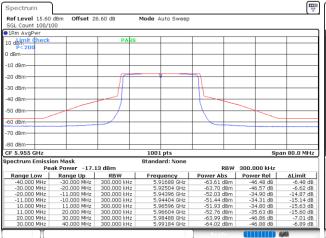




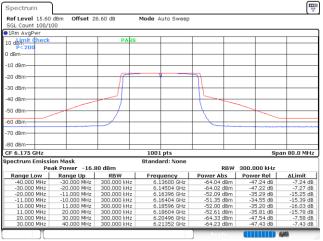
EUT Mode :

802.11ax HE20

Plot on Channel 5955MHz



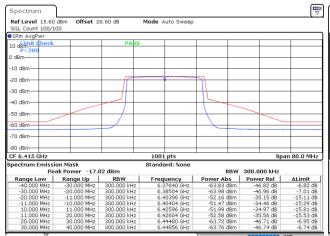
Plot on Channel 6175MHz



Date: 28.NOV.2021 00:42:26

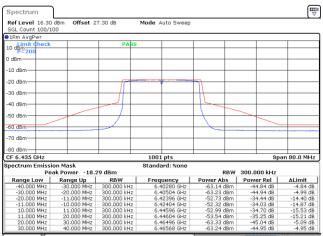
Date: 28.NOV.2021 00:46:33

Plot on Channel 6415MHz



Date: 28.NOV.2021 00:52:28

Plot on Channel 6435MHz

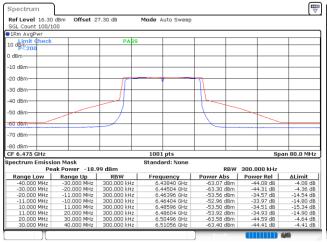


Date: 28.NOV.2021 00:58:43

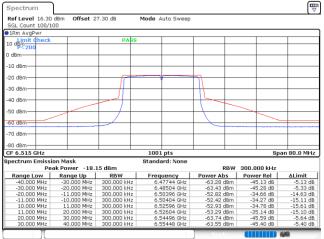
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Plot on Channel 6475MHz



Plot on Channel 6515MHz



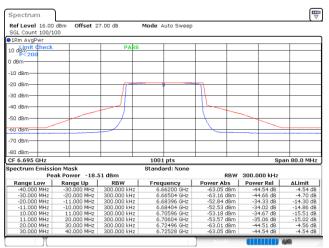
Date: 28.NOV.2021 01:07:24

Plot on Channel 6535MHz

Spectrum Ref Level 16.10 dBm Offset 27.10 dB Mode Auto Sweep SGL Count PASS 1 dBi -10 dBm -20 dBm--30 dBm 40 dBm -50 dBm -60 dBm-70 dBm 80 dBr F 6.535 GHz Span 80.0 MHz 1001 pts pectrum Emission Mask Peak Powe -18.48 d 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Freque Power Abs Power Rel ncy ∆Limit .49520 GHz .50504 GHz .52396 GHz .52404 GHz .54596 GHz .54604 GHz .56496 GHz .57432 GHz 3.55 dBm 3.68 dBm 3.09 dBm 2.48 dBm 3.17 dBm 3.80 dBm 3.74 dBm 3.64 dBm -45.07 dB -45.20 dB -34.61 dB -34.00 dB -34.68 dB -35.31 dB -45.25 dB -45.25 dB -5.24 14.57 14.83 15.52 MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz kHz 24 dB 57 dB 83 dB 52 dB 28 dB 30 dB 16 dB MHZ MHZ MHZ MHZ MHZ MHZ

Plot on Channel 6695MHz

Date: 28.NOV.2021 01:12:03

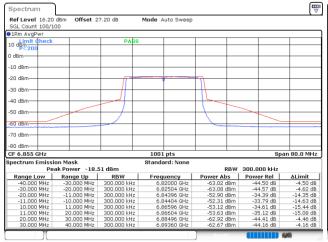


Date: 28.NOV.2021 01:16:41

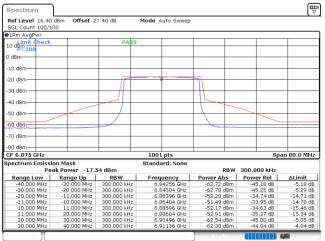
Date: 28.NOV.2021 01:22:00



Plot on Channel 6855MHz

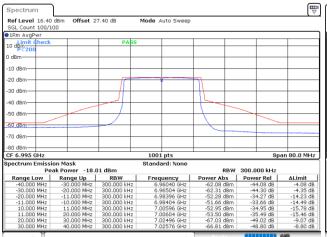


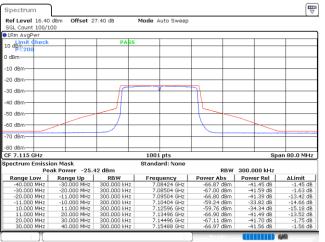
Plot on Channel 6875MHz



Date: 28.NOV.2021 01:27:03

Plot on Channel 6995MHz





Date: 28.NOV.2021 01:38:56

Date: 22.DEC.2021 05:45:24

Date: 28.NOV.2021 01:35:16

Plot on Channel 7115MHz

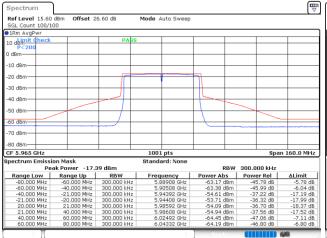




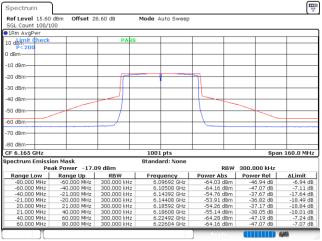
EUT Mode :

802.11ax HE40

Plot on Channel 5965MHz



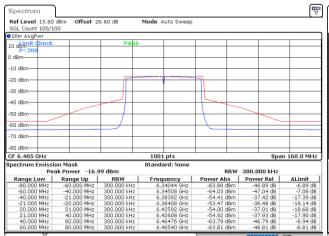
Plot on Channel 6165MHz



Date: 27.NOV.2021 22:52:43

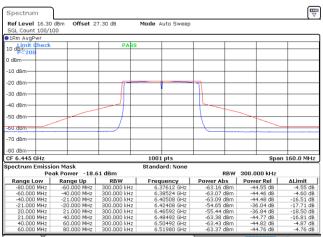
Date: 27.NOV.2021 22:59:09

Plot on Channel 6405MHz



Date: 27.NOV.2021 23:05:08

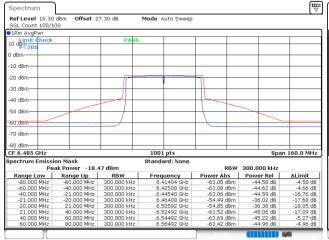
Plot on Channel 6445MHz



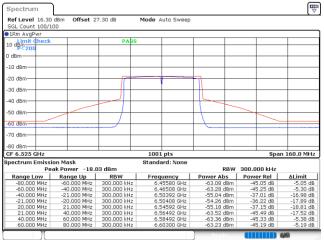
Date: 27.NOV.2021 23:09:43



Plot on Channel 6485MHz



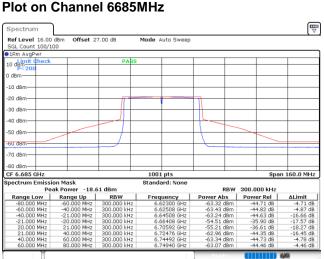
Plot on Channel 6525MHz



Date: 27.NOV.2021 23:15:17

Plot on Channel 6565MHz

₽ Spectrum Ref Level 16.10 dBm Offset 27.10 dB Mode Auto Sweep SGL Count PASS 1 dBi l dBm -10 dBm -10 dBm -20 dBm--20 dBm -30 dBm 30 dBm 40 dBm 40 dBm -50 dBm 50 dBm -60 dBm-6U dBm· 70 dBm 70 dBm 80 dBr an dan F 6.565 GHz Span 160.0 MHz 1001 pts pectrum Emission Mask Peak Powe -18.50 d 300.000 kHz RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low Range Up -60.000 MH Frequency Power Abs Power Rel ∆Limit -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz 40.000 MHz 60.000 MHz -45.00 dB -45.23 dB -36.93 dB -36.12 dB -36.46 dB -45.02 dB -44.85 dB -44.60 dB 5.00 dB 5.28 dB 5.90 dB 7.79 dB 3.13 dB 7.06 dB 1.90 dB 1.60 dB -40.000 -21.000 -20.000 .50508 .54392 .54408 .58592 .60492 MHZ MHZ MHZ MHZ MHZ MHZ kHz kHz kHz kHz kHz kHz kHz GHZ GHZ GHZ GHZ GHZ GHZ GHZ dBm -4.



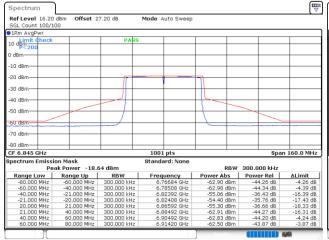
Date: 27.NOV.2021 23:24:16

Date: 27.NOV.2021 23:28:45

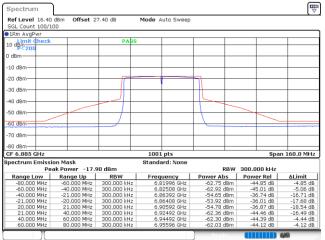
Date: 27.NOV.2021 23:20:23



Plot on Channel 6845MHz



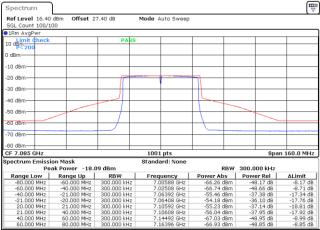
Plot on Channel 6885MHz



Date: 27.NOV.2021 23:34:20

Plot on Channel 6965MHz

₽ Spectrum Ref Level 16.40 dBm Offset 27.40 dB Mode Auto Sweep SGL Cours 1Rm AvgF PASS a h r -10 dBm -20 dBm--30 dBm 40 dBm 50 dBm -60 dBm-70 dBm 80 dBm Span 160.0 MHz 1001 pts pectrum Emission Mask Peak Powe -17.16 d 300.000 kHz RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low Range Up -60.000 MH Freque -62.30 dBm -45.14 dB ncy -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz 40.000 MHz 60.000 MHz -62.30 dBm -62.44 dBm -54.20 dBm -53.29 dBm -54.11 dBm -55.54 dBm -66.84 dBm -66.67 dBm -45.14 dB -45.28 dB -37.05 dB -36.14 dB -36.95 dB -38.38 dB -49.68 dB -49.51 dB -40.000 5.90332 5.90508 5.94392 5.94408 5.98592 5.98608 MHZ MHZ MHZ MHZ MHZ MHZ kHz kHz kHz kHz kHz kHz dB dB dB dB dB dB dB GHZ GHZ GHZ GHZ GHZ GHZ



Date: 27.NOV.2021 23:50:36

Date: 27.NOV.2021 23:54:16

Date: 27.NOV.2021 23:39:22

Plot on Channel 7085MHz

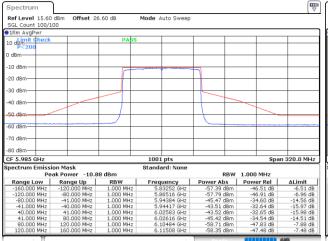




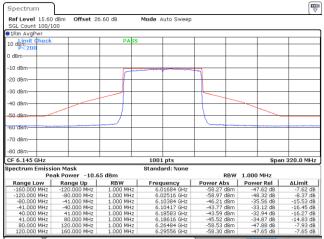
EUT Mode :

802.11ax HE80

Plot on Channel 5985MHz



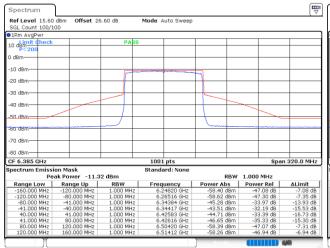
Plot on Channel 6145MHz



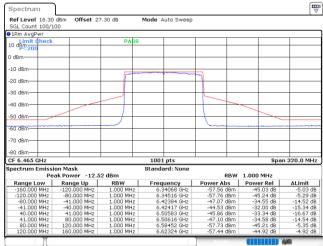
Date: 27.NOV.2021 05:24:41

Date: 27.NOV.2021 05:29:07

Plot on Channel 6385MHz



Plot on Channel 6465MHz

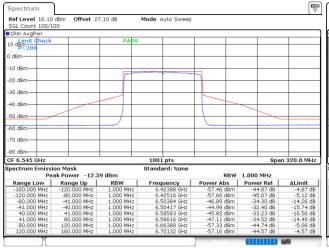


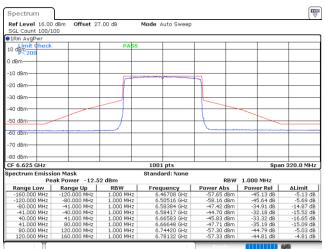
Date: 27.NOV.2021 05:33:18

Date: 27.NOV.2021 05:38:11



Plot on Channel 6545MHz





Date: 27.NOV.2021 05:50:01

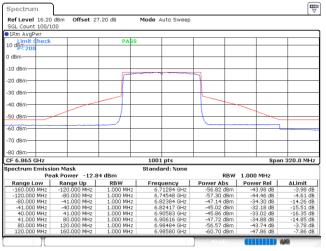
Plot on Channel 6785MHz

Spectrum Ref Level 16.20 dBm SGL Count 100/100 IRm AvgPwr Offset 27.20 dB Mode Auto Sweep 10 dBm dBm--10 dBm -20 dBm--30 dBm 40 dBm 50 dBm--60 dBm-70 dBm-80 dBm Span 320.0 MHz CF 6.785 GHz 1001 pts pectrum Emission Mask -12.57 dB 1.000 MHz Range Up Frequency Range Low -57.09 dBm -44.53 dB RB ∆Limit -160.000 MHz -120.000 MHz -80.000 MHz -41.000 MHz 40.000 MHz 41.000 MHz 80.000 MHz 120.000 MHz .66164 GHz .66516 GHz .74384 GHz .74417 GHz .82583 GHz .82616 GHz -57.09 dBm -57.15 dBm -46.40 dBm -44.85 dBm -45.54 dBm -47.52 dBm -57.19 dBm) MH2 44.58 33.83 32.28 32.97 34.95 44.62 -80 -41 -40 41 80 .000 MH2 MH2 MH2 MH2 MH2 MH2 dB dB dB dB dB dB dB 3 dB 3 dB 3 dB 7 dB 5 dB 5 dB 2 dB

Plot on Channel 6865MHz

Date: 27.NOV.2021 05:56:07

Plot on Channel 6625MHz



Date: 27.NOV.2021 06:10:16

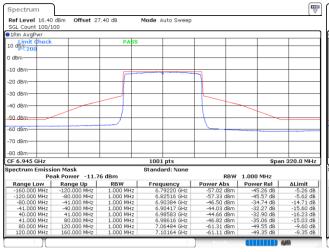
Date: 27.NOV.2021 06:20:13

TEL : 886-3-327-3456
FAX : 886-3-328-4978
Report Template No.: BU5-FR15EWL AC MA Version 2.4

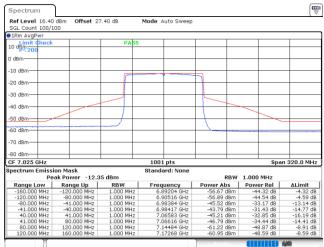
Page Number: 39 of 80Issue Date: Jan. 29, 2022Report Version: 02



Plot on Channel 6945MHz



Plot on Channel 7025MHz



Date: 27.NOV.2021 06:30:18

Date: 27.NOV.2021 06:37:16

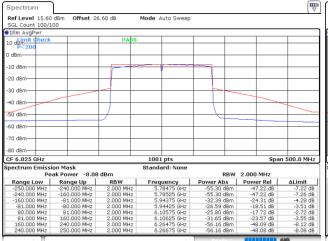




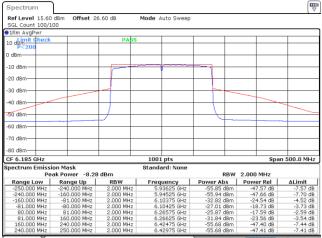
EUT Mode :

802.11ax HE160

Plot on Channel 6025MHz



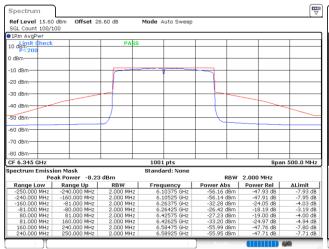
Plot on Channel 6185MHz



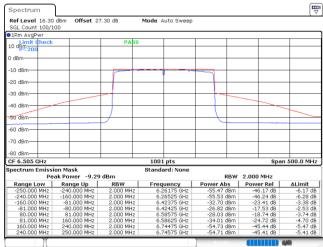
Date: 27.NOV.2021 03:30:49

Date: 27.NOV.2021 03:50:02

Plot on Channel 6345MHz



Plot on Channel 6505MHz

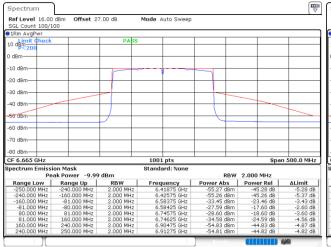


Date: 27.NOV.2021 04:40:45

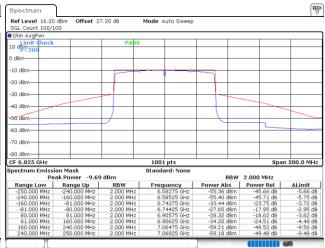
Date: 27.NOV.2021 04:58:36



Plot on Channel 6665MHz

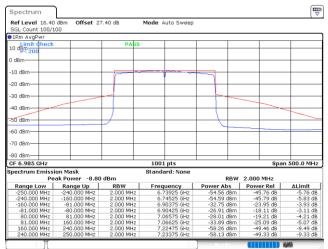


Plot on Channel 6825MHz



Date: 27.NOV.2021 05:03:36

Plot on Channel 6985MHz



Date: 27.NOV.2021 05:14:00

Date: 27.NOV.2021 05:08:10

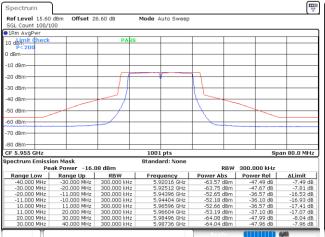


MIMO <Ant. 3+4(4)>

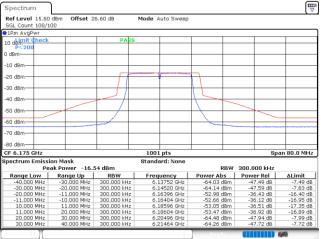
EUT Mode :

802.11a

Plot on Channel 5955MHz



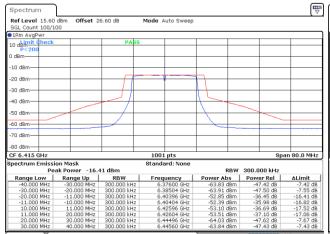
Plot on Channel 6175MHz



Date: 28.NOV.2021 01:50:18

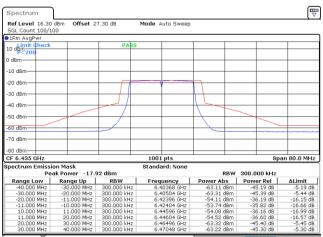
Date: 28.NOV.2021 01:54:49

Plot on Channel 6415MHz



Date: 28.NOV.2021 01:59:42

Plot on Channel 6435MHz

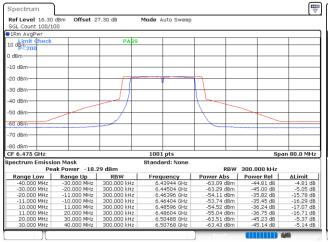


Date: 28.NOV.2021 02:03:34

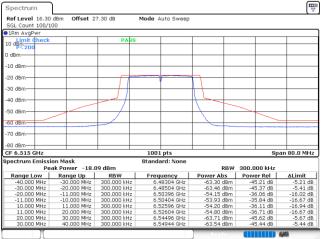
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Plot on Channel 6475MHz



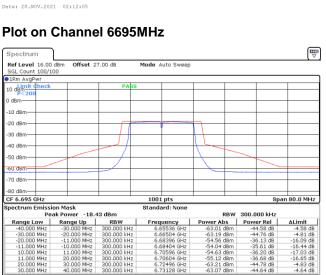
Plot on Channel 6515MHz



Date: 28.NOV.2021 02:08:38

Plot on Channel 6535MHz

₽ Spectrum Ref Level 16.10 dBm Offset 27.10 dB Mode Auto Sweep SGL Count PAS 1 dBi -10 dBm -20 dBm--30 dBm 40 dBm -50 dBm -60 dBm-70 dBm 80 dBr F 6.535 GHz Span 80.0 MHz 1001 pts pectrum Emission Mask Peak Powe -18.06 d 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Frequency Power Abs Power Rel <u>∆Limit</u> -63.59 dBm -63.67 dBm -54.30 dBm -53.89 dBm -54.42 dBm -54.81 dBm -63.75 dBm -63.66 dBm -45.53 dB -45.61 dB -36.24 dB -35.83 dB -36.36 dB -36.75 dB -45.69 dB -45.59 dB -5.53 dB -5.76 dB 16.20 dB 16.66 dB 17.19 dB 16.72 dB -5.74 dB -5.59 dB .50368 GH2 .50512 GHz .52396 GHz .52404 GHz .54596 GHz .54604 GHz .56496 GHz .57008 GHz MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ

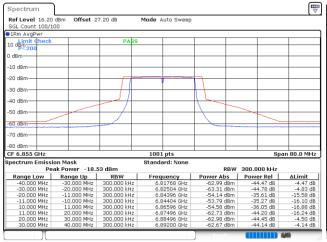


Date: 28.NOV.2021 02:15:49

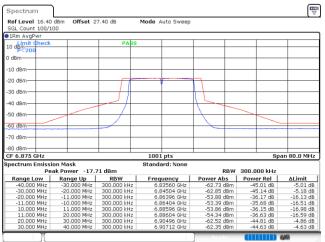
Date: 28.NOV.2021 02:21:16



Plot on Channel 6855MHz



Plot on Channel 6875MHz



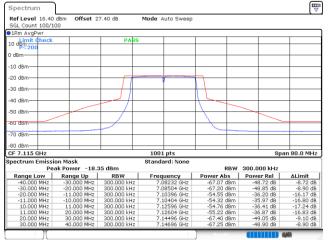
Date: 28.NOV.2021 02:25:17

Plot on Channel 6995MHz

₽ Spectrum Ref Level 16.40 dBm Offset 27.40 dB Mode Auto Sweep SGL Cours 1Rm AvgF PAS a h r -10 dBm -20 dBm--30 dBm 40 dBm 50 dBm -60 dBm-70 dBm B0 dBm F 6.995 GHz Span 80.0 MHz 1001 pts pectrum Emission Mask Peak Powe -17.61 d 300.000 kH RBW ALimit -4.44 dB -4.62 dB -15.85 dB -16.24 dB -17.63 dB -17.15 dB -9.48 dB -9.27 dB RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Frequency -62.05 dBm -44.44 dB 5.95960 GHz 5.96504 GHz 5.98396 GHz 5.98404 GHz 7.00596 GHz 7.00596 GHz 7.00604 GHz 7.02496 GHz 7.02736 GHz -62.05 dBm -62.18 dBm -53.49 dBm -53.02 dBm -54.40 dBm -54.79 dBm -67.04 dBm -66.88 dBm -44.44 dB -44.57 dB -35.88 dB -35.41 dB -36.79 dB -37.18 dB -49.43 dB -49.27 dB MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ

Plot on Channel 7115MHz

Date: 28.NOV.2021 02:28:51



Date: 28.NOV.2021 02:32:13

Date: 28.NOV.2021 02:35:51