



Report No.: FR362117-01

# FCC RADIO TEST REPORT

FCC ID : UZ7MC9401

Equipment : Mobile Computer

Brand Name : ZEBRA Model Name : MC9401

Applicant : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Manufacturer : Zebra Technologies Corporation

1 Zebra Plaza, Holtsville, NY 11742

Standard : FCC Part 15 Subpart E §15.407

The product was received on Jun. 21, 2023 and testing was performed from Jul. 07, 2023 to Sep. 22, 2023. We, Sporton International Inc. Wensan 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Lunis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

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Report Template No.: BU5-FR15EWL AC MA Version 1.0.0

Report Version : 03

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# History of this test report

Report No. : FR362117-01

Report No.	Version	Description	Issue Date
FR362117-01	01	Initial issue of report	Sep. 11, 2023
FR362117-01	02	Revise Section 2.2  This report is an updated version, replacing the report issued on Sep. 11, 2023.	Sep. 12, 2023
FR362117-01	03	Revise Section 1.2, Section 3.4.5, Section 3.5.8 and List of Measuring Equipment  This report is an updated version, replacing the report issued on Sep. 12, 2023.	Sep. 28, 2023

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# **Summary of Test Result**

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Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	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	1.11 dB under the limit at 7125.02 MHz
3.7	15.207	207 AC Conducted Emission Pass		16.65 dB under the limit at 0.17 MHz
3.8	15.203 15.407(a)	Antenna Requirement Pass		-

**Note:** Except Unwanted Emissions is carrying out, FR362117-01 report reuses test data from the FR362117H report.

# **Conformity Assessment Condition:**

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the
  regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall
  bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into
  account.
- 2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

# Disclaimer:

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

Reviewed by: Keven Cheng Report Producer: Michelle Chen

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# 1 General Description

# 1.1 Product Feature of Equipment Under Test

Product Feature					
Equipment	Mobile Computer				
Brand Name	ZEBRA				
Model Name	MC9401				
FCC ID	UZ7MC9401				
	NFC				
	WLAN 11a/b/g/n HT20/HT40				
EUT supports Radios application	WLAN 11ac VHT20/VHT40/VHT80/VHT160				
	WLAN 11ax HE20/HE40/HE80/HE160				
	Bluetooth BR/EDR/LE				
HW Version	EV				
SW Version	13-05-28.00-TG-U00-PRD-NEM-04				
FW Version	FUSION_QA_6_1.0.0.001_T				
MFD	08JUN23				
EUT Stage	Identical Prototype				

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**Remark:** The EUT's information above is declared by manufacturer.

Specification of Accessories					
Adapter USB Wall Charger	Brand Name	Zebra	Model Number	PWR-WUA5V12W0US	
Battery Standard Battery (7000mAh)	Brand Name	Zebra	Model Number	BT-000370	
Earphone USB-C Audio Headset	Brand Name	Zebra	Model Number	HDST-USBC-PTT1-01	
USB Cable (Type C to Type A)	Brand Name	Zebra	Model Number	CBL-TC2X-USBC-01	
Holster	Brand Name	Zebra	Model Number	SG-MC9X-SHLSTG-01	
USB Cable (CUP)	Brand Name	Zebra	Model Number	CBL-MC93-USBCHG-01	

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# 1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard				
5925 MHz ~ 6425 MHz				
- /5 01 15 5	6425 MHz ~ 6525 MHz			
Tx/Rx Channel Frequency Range	6525 MHz ~ 6875 MHz			
	6875 MHz ~ 7125 MHz			
	MIMO <ant. 6+7="">:</ant.>			
	<5925 MHz ~ 6425 MHz>			
	802.11a: 6.11 dBm / 0.0041 W			
l.,	<6425 MHz ~ 6525 MHz>			
Maximum Output Power to Antenna	802.11a: 5.76 dBm / 0.0038 W			
<cdd modes=""></cdd>	<6525 MHz ~ 6875 MHz>			
	802.11a: 6.58 dBm / 0.0045 W			
	<6875 MHz ~ 7125 MHz>			
	802.11a: 6.60 dBm / 0.0046 W			
	MIMO <ant. 6+7="">:</ant.>			
	<5925 MHz ~ 6425 MHz>			
	802.11ax: HE20: 8.21 dBm / 0.0066 W			
	802.11ax: HE40: 10.71 dBm / 0.0118 W			
	802.11ax: HE80: 12.86 dBm / 0.0193 W			
	802.11ax: HE160: 15.96 dBm / 0.0394 W			
	<6425 MHz ~ 6525 MHz>			
	802.11ax: HE20: 7.96 dBm / 0.0063 W			
	802.11ax: HE40: 10.82 dBm / 0.0121 W			
Maximum Output Bayyanta Antanna	802.11ax: HE80: 12.71 dBm / 0.0187 W			
Maximum Output Power to Antenna <pre><sdm modes=""></sdm></pre>	802.11ax: HE160: 15.62 dBm / 0.0365 W			
<5DW Wodes>	<6525 MHz ~ 6875 MHz>			
	802.11ax: HE20: 8.40 dBm / 0.0069 W			
	802.11ax: HE40: 11.21 dBm / 0.0132 W			
	802.11ax: HE80: 13.31 dBm / 0.0214 W			
	802.11ax: HE160: 16.06 dBm / 0.0404 W			
	<6875 MHz ~ 7125 MHz>			
	802.11ax: HE20: 8.92 dBm / 0.0078 W			
	802.11ax: HE40: 10.81 dBm / 0.0121 W			
	802.11ax: HE80: 13.17 dBm / 0.0207 W			
	802.11ax: HE160: 16.08 dBm / 0.0406 W			
	MIMO <ant. 6=""></ant.>			
99% Occupied Bandwidth	802.11a: 16.83 MHz			
<cdd modes=""></cdd>	MIMO <ant. 7=""></ant.>			
	802.11a: 16.63 MHz			
	MIMO <ant. 6=""></ant.>			
	802.11ax: HE20: 18.98 MHz			
	802.11ax: HE40: 37.96 MHz			
	802.11ax: HE80: 76.96 MHz			
99% Occupied Bandwidth	802.11ax: HE160: 154.89 MHz			
<sdm modes=""></sdm>	MIMO <ant. 7=""></ant.>			
	802.11ax: HE20: 18.93 MHz			
	802.11ax: HE40: 37.96 MHz			
	802.11ax: HE80: 76.96 MHz			
	802.11ax: HE160: 154.89 MHz			

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Product Specification is subject to this standard				
Antenna Type / Gain	<5925 MHz ~ 6425 M <ant. 6="">: Coupling Ar <ant. 7="">: Coupling Ar &lt;6425 MHz ~ 6525 M <ant. 6="">: Coupling Ar <ant. 7="">: Coupling Ar &lt;6525 MHz ~ 6875 M <ant. 6="">: Coupling Ar <ant. 7="">: Coupling Ar <ant. 7="">: Coupling Ar <ant. 7="">: Coupling Ar <ant. 7="">: Coupling Ar <ant. 6="">: Coupling Ar <ant. 6="">: Coupling Ar <ant. 7="">: Coupling Ar</ant.></ant.></ant.></ant.></ant.></ant.></ant.></ant.></ant.></ant.></ant.></ant.>	ntenna with gain on tenna with gain of the second with	1.49 dBi 1.50 dBi 1.46 dBi 1.25 dBi 1.46 dBi	
Type of Modulation	802.11a : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)			
Antenna Function Description	802.11a/ax MIMO	Ant. 6 V	Ant. 7	
	802.11ax TXBF	V	V	

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#### Remark:

- 1. MIMO Ant. 7+8 Directional Gain is a calculated result from MIMO Ant. 7 and MIMO Ant. 8. The formula used in calculation is documented in section 1.2.1.
- 2. Power of MIMO Ant. 7 + Ant. 8 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 8.
- The device WIFI MIMO support 1S2T (CDD & Tx Beamforming) (Nss=1) mode& SDM (2S2T :Nss=2) mode, 1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.by manufacturer declared.
- 4. For 802.11a, it does not support SDM & Tx Beamforming so the correlated gain for CDD is applied.
- 5. For 802.11ax support CDD&SDM& Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP/PSD is not greater than CDD&SDM mode, so CDD&SDM mode covers Tx Beamforming mode. In SDM mode, the conducted power is set to 3dB higher than TXBF/CDD. Since the maximum array gain for the two antenna system is 3dB, the TXBF/CDD compliance is met by testing SDM mode as worst mode for LPI power mode.
- 6. 802.11ax supports both full RU tones and partial RU tones, which are both conducted power/PSD tested in Appendix A, for channel masking in Section 3.4.5, all the other test case were performed with full RU with its maximum power/PSD.
- 7. The EUT does not support channel puncturing mode.
- 8. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

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# 1.2.1 Antenna Directional Gain

### <For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)f)ii)

Directional gain = G<sub>ANT</sub> + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for N<sub>ANT</sub> ≤ 4.

G<sub>ANT</sub> is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

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

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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 kth antenna is being fed by spatial stream j, or zero if it is not;  $G_k$  is the gain in dBi of the kth antenna.

As minimum N<sub>SS</sub>=1 is supported by EUT, the formula can be simplified as:

Directional gain =  $10*\log[(10^{G1/20} + 10^{G2/20} + ... + 10^{GN/20})^2/N_{ANT}]$  dBi

Where G1, G2....GN denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG	DG
			for	for
	Ant 6	Ant 7	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	1.59	1.49	1.59	4.55
6425 MHz ~ 6525 MHz	1.50	1.46	1.50	4.49
6525 MHz ~ 6875 MHz	1.25	1.46	1.46	4.37
6875 MHz ~ 7125 MHz	1.34	1.38	1.38	4.37

Calculation example:

If a device has two antenna, GANT1= 1.59dBi; GANT2= 1.49dBi

Directional gain of power measurement = max(1.59, 1.49) + 0 = 1.59 dBi

Directional gain of PSD derived from formula which is

10 x log { { [ 10^ (1.59 dBi / 20) + 10^ (1.49 dBi / 20) ] ^ 2 } / 2 }

= 4.55 dBi

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# <For SDM Modes>

SDM Modes all transmit signals are completely uncorrelated, then Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)d)ii) The Directional gain =  $10*log[(10^{G1/10} + 10^{G2/10} + ... + 10^{GN/10})/N_{ANT}]$  dBi Where G1, G2....GN denote single antenna gain.

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The directional gain "DG" is calculated as following table.

			DG	DG
			for	for
	Ant 6	Ant 7	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	1.59	1.49	1.54	1.54
6425 MHz ~ 6525 MHz	1.50	1.46	1.48	1.48
6525 MHz ~ 6875 MHz	1.25	1.46	1.36	1.36
6875 MHz ~ 7125 MHz	1.34	1.38	1.36	1.36

# Calculation example:

If a device has two antenna,  $G_{ANT1}$ = 1.59dBi;  $G_{ANT2}$ =1.49dBi Directional gain is derived from formula which is  $10 \times \log \{ \{ [10^{\circ} (1.59 \text{ dBi} / 10) + 10^{\circ} (1.49 \text{ dBi} / 10) ] \} / 2 \} = 1.54 \text{ dBi}$ 

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# <For TXBF Modes>

The EUT supports beamforming modes then

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)e)ii)

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

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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 kth antenna is being fed by spatial stream j, or zero if it is not;  $G_k$  is the gain in dBi of the kth antenna.

The directional gain "DG" is calculated as following table.

			DG	DG
			for	for
	Ant 6	Ant 7	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	1.59	1.49	4.55	4.55
6425 MHz ~ 6525 MHz	1.50	1.46	4.49	4.49
6525 MHz ~ 6875 MHz	1.25	1.46	4.37	4.37
6875 MHz ~ 7125 MHz	1.34	1.38	4.37	4.37

Calculation example:

Directional gain is derived from formula which is

 $10 \times \log \{ \{ [10^{\circ} (1.59 \text{ dBi} / 20) + 10^{\circ} (1.49 \text{ dBi} / 20) ]^{\circ} 2 \} / 2 \} = 4.55 \text{ dBi} \}$ 

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# 1.3 Modification of EUT

No modifications made to the EUT during the testing.

# 1.4 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.
rest site No.	CO05-HY, DF02-HY (TAF Code: 1190)
Remark	The Contention Based Protocol and AC Conducted Emission test items subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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**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. TH05-HY, 03CH11-HY

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

FCC designation No.: TW1190 and TW3786

# 1.5 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 v02
- 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.

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# 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 only the worst case emissions were reported in this report.

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b. AC power line Conducted Emission was tested under maximum output power.

# 2.1 Carrier Frequency and Channel

BW 20M	Channel	1	5	9	13	17	21	25	29	
	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095	
BW 40M	Channel	3	3		11		19		27	
DVV 4UIVI	Freq. (MHz)	5965		60	005 60		45	6085		
BW 80M	Channel		-	7		23				
DAA OOIAI	Freq. (MHz)	5985				6065				
BW 160M	Channel	15								
	Freq. (MHz)	60				25				

BW 20M	Channel	33	37	41	45	49	53	57	61	
DVV ZUIVI	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255	
D\A/ 40N4	Channel	3	35		43		51		59	
BW 40M	Freq. (MHz)	6125		61	65	62	05	6245		
BW 80M	Channel		3	9		55				
DAA OOIAI	Freq. (MHz)	6145				6225				
BW 160M	Channel	47								
BW 160M	Freq. (MHz)	61				85				

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Channel

Freq. (MHz)

BW 160M

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	5	83		91		
DVV 40IVI	Freq. (MHz)	62	85	63	25	63	65	65 6405		
BW 80M	Channel	71 87			7					
DAA OOIAI	Freq. (MHz)		63	05			63	85		
BW 160M	Channel				7	9				
DAA LOOIAI	Freq. (MHz)				63	45				
	Channel	97	101	105	109	113	117	121	125	
BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575	
	Channel		19		07 07		0000   		23	
BW 40M	Freq. (MHz)		6445 6485			25	6565			
	Channel						1 <sup>2</sup>	<u> </u>		
BW 80M	Freq. (MHz)			·65		6545				
	Channel				1.	<u> </u> 11				
BW 160M	Freq. (MHz)		6505							
BW 20M	Channel	129	133	137	141	145	149	153	157	
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735	
BW 40M	Channel		31	13	39	14	17	15	55	
	Freq. (MHz)	66	05	66	45	6685 6725			25	
BW 80M	Channel		13	35		151				
	Freq. (MHz)		66	25			67	05		
BW 160M	Channel				14	43				
BW 100m	Freq. (MHz)				66	65				
	Channel	161	165	169	173	177	181	185	189	
BW 20M	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895	
	Channel	10	63	1	71	1	79	18	37	
						6845			6885	
BW 40M	Freq. (MHz)	67	6765 6805			68	45	68	85	
	Freq. (MHz)	67		68 67	305	68		68 33	85	
BW 40M	. , ,	67	10		805	68	18	l	85	

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DW 20M	Channel	193	197	201	205	209	213	217	221	
BW 20M	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055	
BW 40M	Channel	19	195		)3	2′	11	2	219	
DVV 4UIVI	Freq. (MHz)	69	25	69	65	70	05	70	45	
BW 80M	Channel		19	99			2′	15		
DAA OOIAI	Freq. (MHz)	6945					70	25		
BW 160M	Channel	207								
DAA LOOIM	Freq. (MHz)	6985								
DW 20M	Channel	225 229					29			
BW 20M	Freq. (MHz)		7075				7095			
BW 40M	Channel	227								
DVV 40IVI	Freq. (MHz)				70	85				
DW 0014	Channel	233								
BW 20M	Freq. (MHz)				71	115				

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# 2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU but does not support 2x996-tone RU on 160MHz channel

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The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2018.

The 802.11ax mode is investigated among different tones, full resource units (RU), partial resource units. The partial RU has no higher power than full RU's, thus the full RU is chosen as main test configuration.

The 242-tone RU is covered by 20MHz channel, 484-tone RU is covered by 40MHz channel and 996-tone RU is covered by 80MHz channel.

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

#### **MIMO Mode**

Modulation	Data Rate
802.11a	6 Mbps
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

	Test Cases							
AC Mode 1: WLAN (6GHz) Link + Bluetooth Link + Battery Standard Battery (7000mAh								
Conducted	+ Scan + USB Cable (Type C to Type A) with USB Cable (CUP) (Charging							
Emission	from Adapter USB Wall Charger)							

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# MIMO <Ant. 6+7>

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11a	802.11a	802.11a	802.11a
L	Low	001	097	117	189
M	Middle	049	105	149	209
Н	High	093	113	-	233
5	Straddle	-	-	185	-

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	Ch. #	UNII-5 UNII-6 (5925-6425 MHz) (6425-6525 MHz		UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)	
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20	
L	Low	001	097	117	189	
M	Middle	049	105	149	209	
н	High	093	113		-	
П	підіі	093		-	233	
5	Straddle	-	-	185	-	

Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	003	099	123	195
M	Middle	051	-	147	211
Н	High	091	107	-	227
5	Straddle	-	115	187	-

Ch. #		UNII-5 UNII-6 (5925-6425 MHz) (6425-6525 MHz)		UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80
L	Low	007		135	199
М	Middle	055	103	151	-
Н	High	087		-	215
5	Straddle	-	-	183	-

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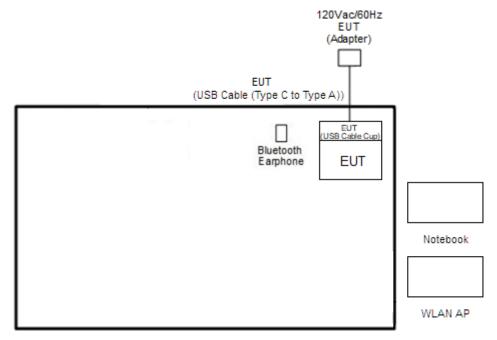
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	015			
М	Middle	047	-	143	207
Н	High	079			
9	Straddle	-	111	175	-

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**Remark:** Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.

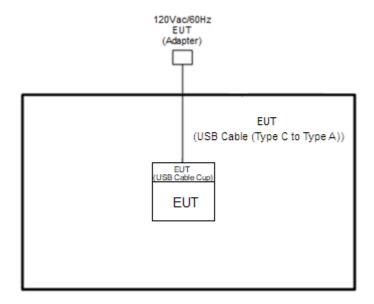
# 2.3 Connection Diagram of Test System

# <AC Conducted Emission Mode>



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# <WLAN Tx Mode>



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# 2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
2.	WLAN AP	NETGEAR64	RAXE500	N/A	N/A	Unshielded, 1.8 m
3.	Notebook	Dell	Latitude 3420	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Dell	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

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# 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.00211.0" 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.

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# 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)

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# 3 Test Result

# 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.

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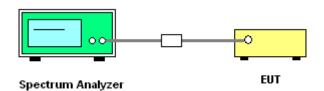
# 3.1.2 Measuring Instruments

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

# 3.1.3 Test Procedures

- 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%.
- 7. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW)  $\geq$  3 \* RBW.
- 8. Measure and record the results in the test report.

# 3.1.4 Test Setup



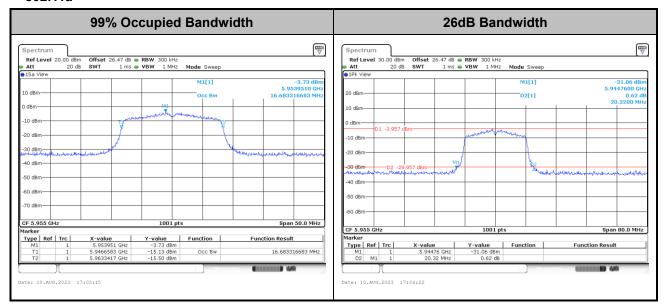
# 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

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MIMO <Ant. 6+7> <CDD Modes>

<802.11a>



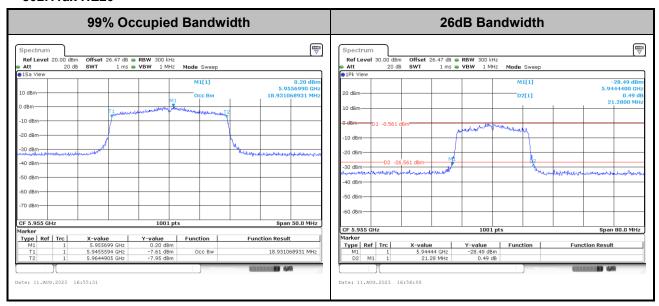
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**Note:** The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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#### <SDM Modes>

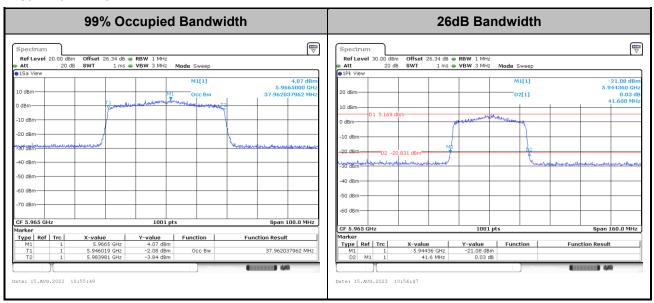
#### <802.11ax HE20>



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

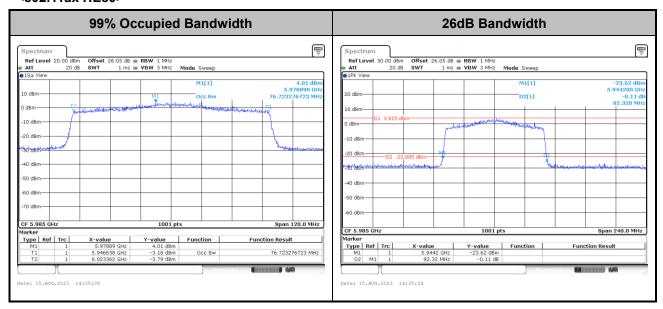
# <802.11ax HE40>



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

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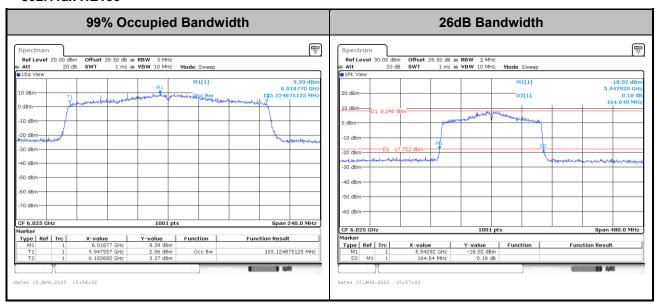
# <802.11ax HE80>



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

# <802.11ax HE160>



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

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# 3.2 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.

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# 3.2.2 Measuring Instruments

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

# 3.2.3 Test Procedures

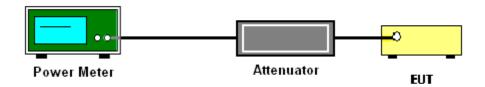
#### <CDD and SDM Modes>

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.

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# 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.

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# 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.

### <CDD and SDM Modes>

#### # Method SA-2 #

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

- · Measure the duty cycle.
- 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 ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
- 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.

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# 3.3.4 Test Setup



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# 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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# <CDD Modes>

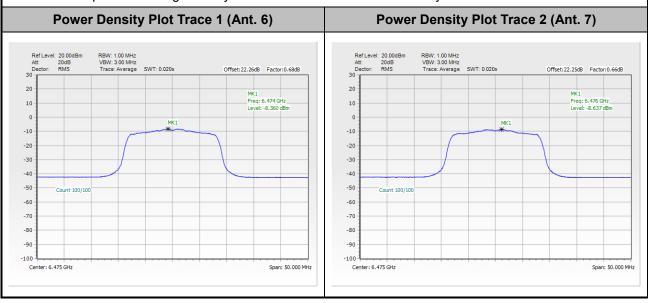
# <802.11a>



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# Note:

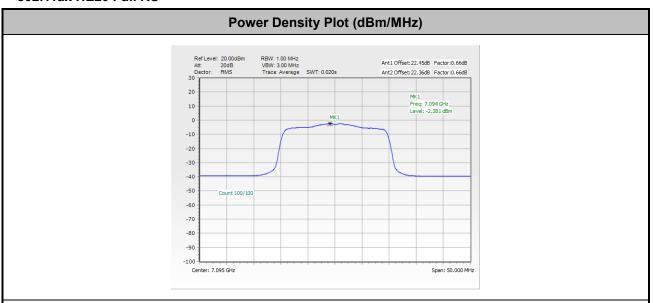
- 1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
- 2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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# <SDM Modes>

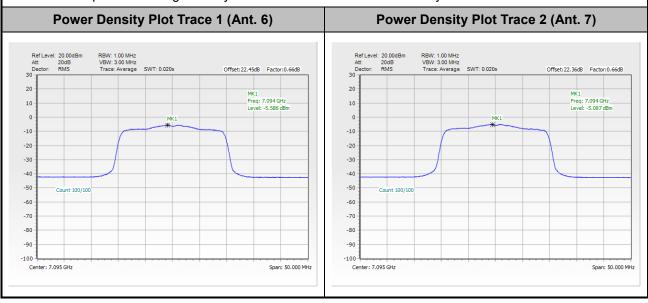
#### <802.11ax HE20 Full RU>



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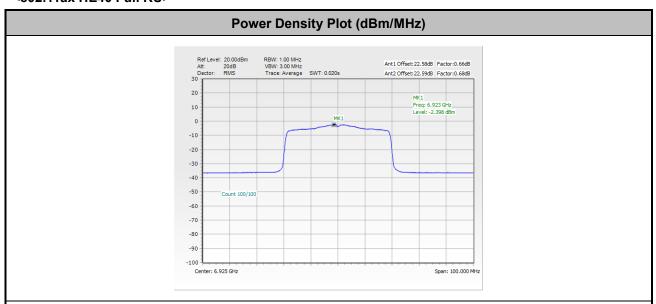
# Note:

- 1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
- 2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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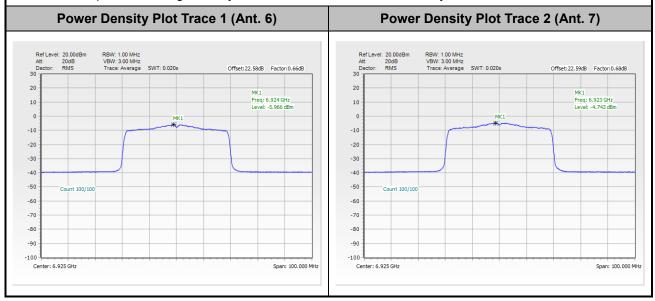
### <802.11ax HE40 Full RU>



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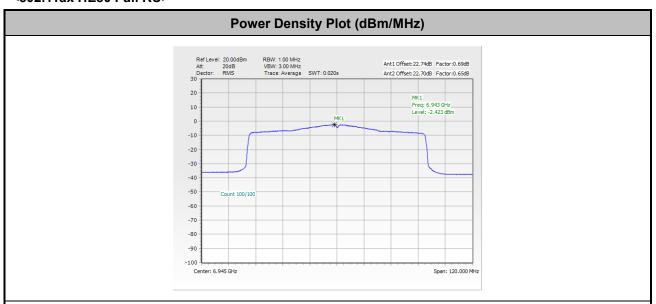
# Note:

- 1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
- 2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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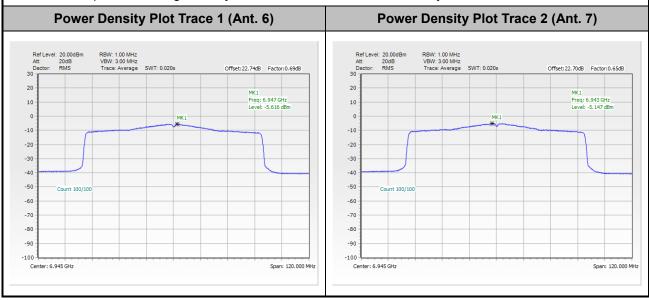
### <802.11ax HE80 Full RU>



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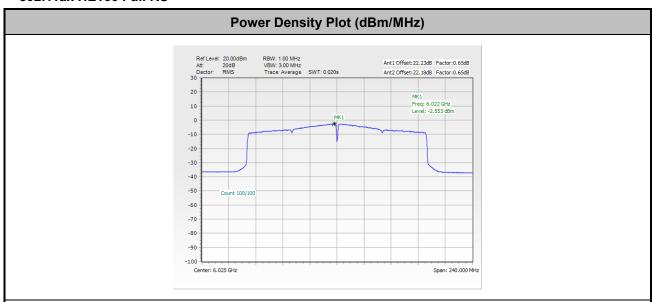
# Note:

- 1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
- 2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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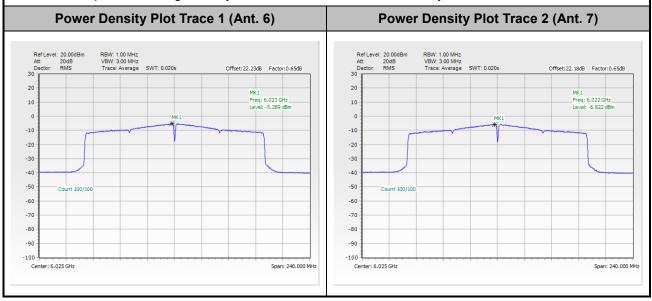
#### <802.11ax HE160 Full RU>



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# Note:

- 1. EIRP Power Density (dBm/MHz) = Measured value+ Duty Factor + Directional Gain
- 2. The test plot is showing a bin by bin combined result mathematically adds two traces.



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# 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.

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# 3.4.2 Measuring Instruments

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

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### 3.4.3 Test Procedures

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

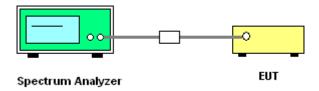
Section J) In-Band Emissions.

 Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth

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- 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 ≥ [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.
- 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



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# 3.4.5 Test Result

<CDD Modes>

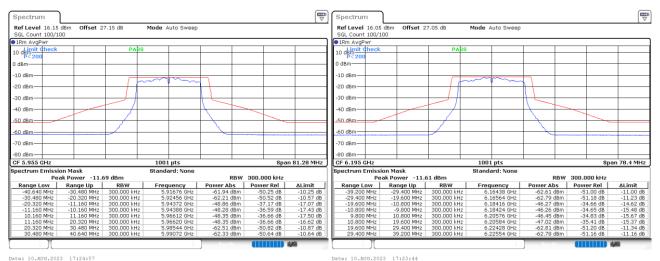
MIMO <Ant. 6+7(6)>

EUT Mode	802.11a
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#### Plot on Channel 5955 MHz

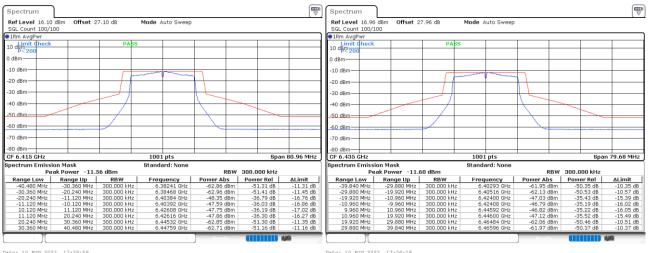
### Plot on Channel 6195 MHz

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#### Plot on Channel 6415 MHz

#### Plot on Channel 6435 MHz



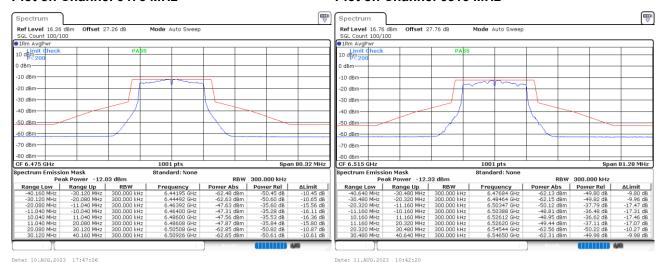
Date: 10.AUG.2023 17:28:59 Date: 10.AUG.2023 17:36:19

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#### Plot on Channel 6475 MHz

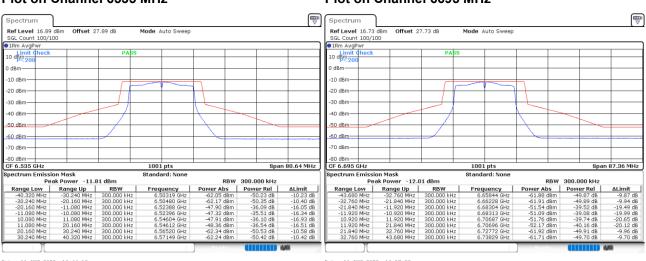
#### Plot on Channel 6515 MHz

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#### Plot on Channel 6535 MHz

#### Plot on Channel 6695 MHz

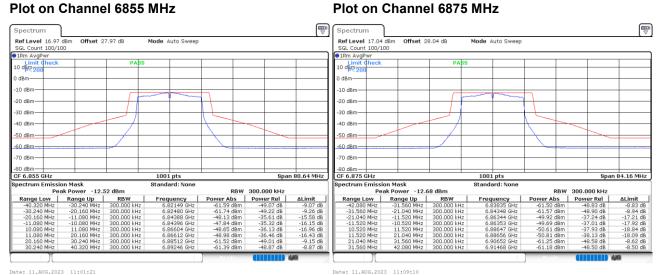


Date: 11.AUG.2023 10:44:18 Date: 11.AUG.2023 10:57:28

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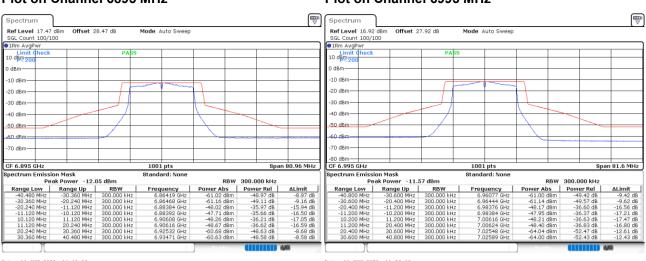
#### Plot on Channel 6875 MHz

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### Plot on Channel 6895 MHz

#### Plot on Channel 6995 MHz

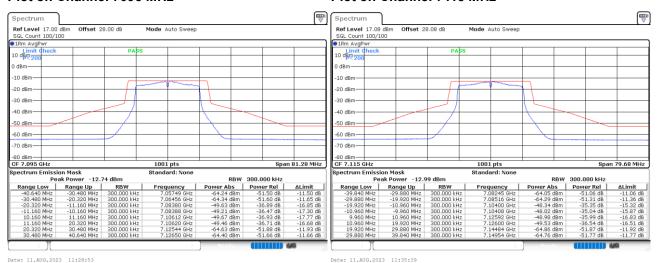


Date: 11.AUG.2023 11:15:53 Date: 11.AUG.2023 11:26:06

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# Plot on Channel 7115 MHz

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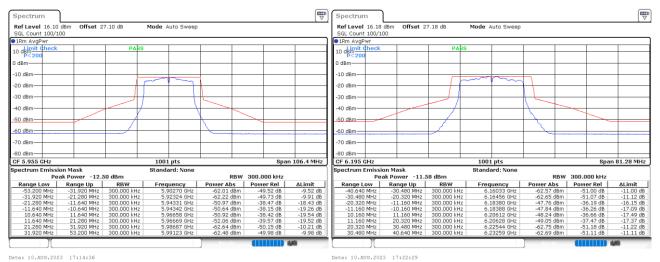
# MIMO <Ant. 6+7(7)>

EUT Mode 802.11a	EUT Mode
------------------	----------

# Plot on Channel 5955 MHz

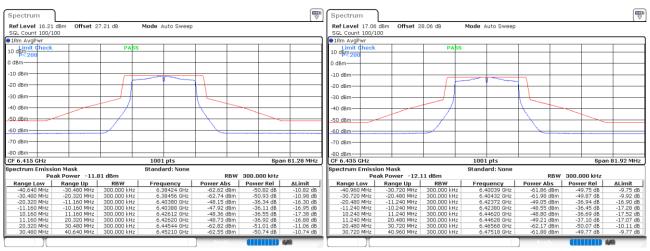
# Plot on Channel 6195 MHz

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# Plot on Channel 6415 MHz

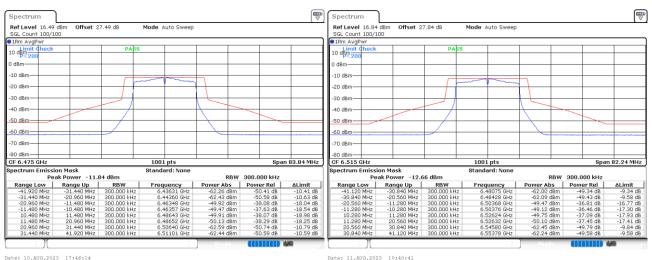
# Plot on Channel 6435 MHz



Date: 10.AUG.2023 17:30:41 Date: 10.AUG.2023 17:38:16

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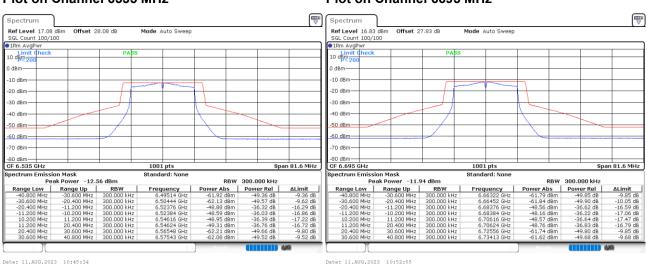
#### Plot on Channel 6475 MHz Plot on Channel 6515 MHz



# Plot on Channel 6535 MHz

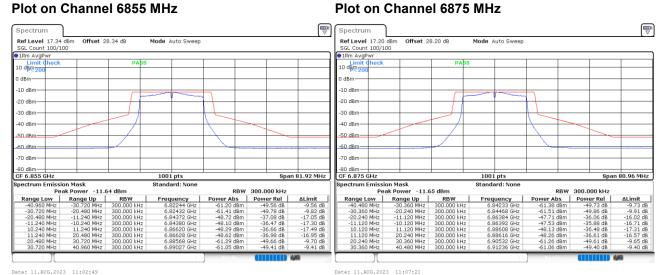
## Plot on Channel 6695 MHz

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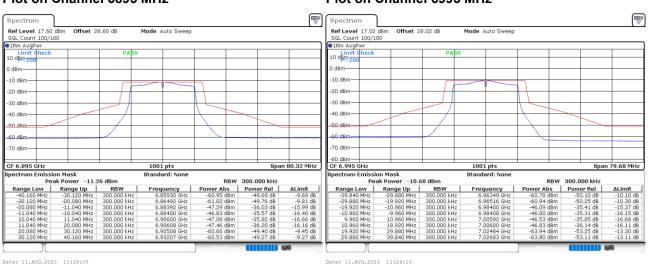
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## Plot on Channel 6895 MHz

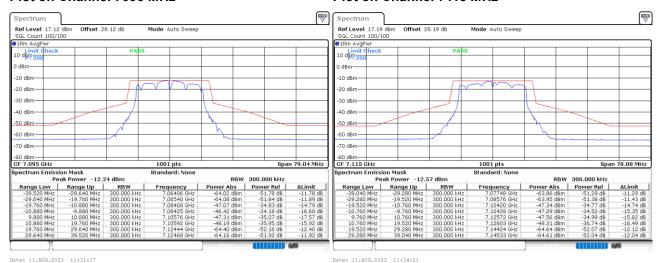
## Plot on Channel 6995 MHz



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# Plot on Channel 7115 MHz

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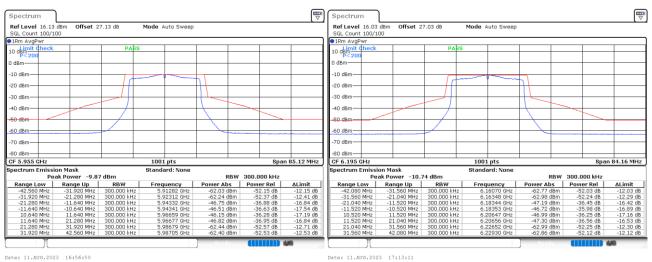
# <SDM Modes>

# MIMO <Ant. 6+7(6)>

EUT Mode	802.11ax HE20 Full RU
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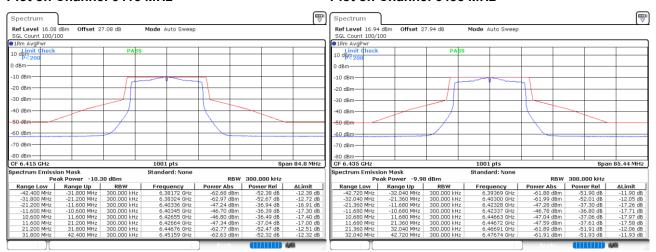
## Plot on Channel 5955 MHz

## Plot on Channel 6195 MHz



# Plot on Channel 6415 MHz

## Plot on Channel 6435 MHz

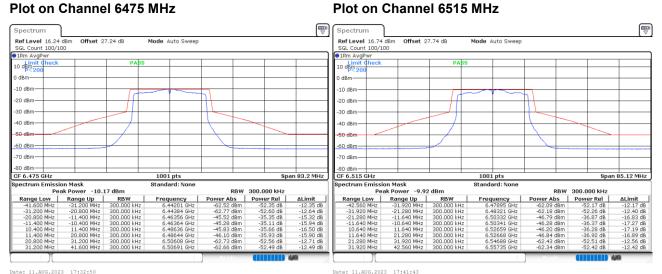


Date: 11.AUG.2023 17:15:35 Date: 11.AUG.2023 17:29:15

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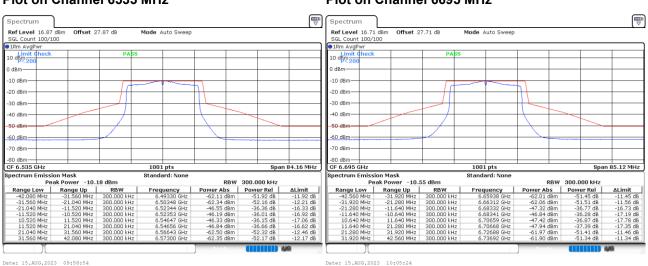
## Plot on Channel 6515 MHz

Report No.: FR362117-01



# Plot on Channel 6535 MHz

## Plot on Channel 6695 MHz

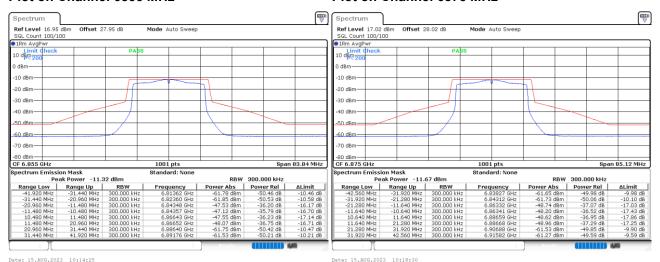


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# Plot on Channel 6855 MHz

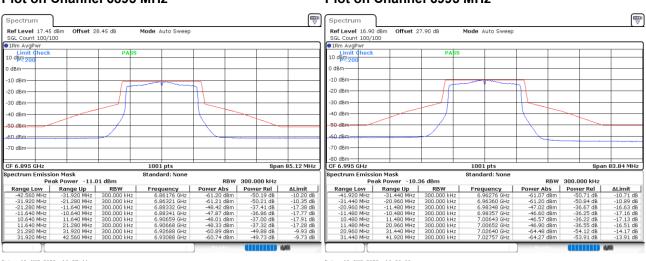
## Plot on Channel 6875 MHz

Report No.: FR362117-01



# Plot on Channel 6895 MHz

## Plot on Channel 6995 MHz



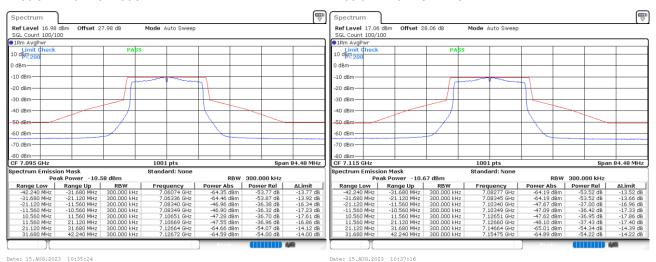
Date: 15.AUG.2023 10:27:44 Date: 15.AUG.2023 10:30:00

TEL: 886-3-327-0868 Page Number : 44 of 145
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# Plot on Channel 7115 MHz

Report No.: FR362117-01

: 03

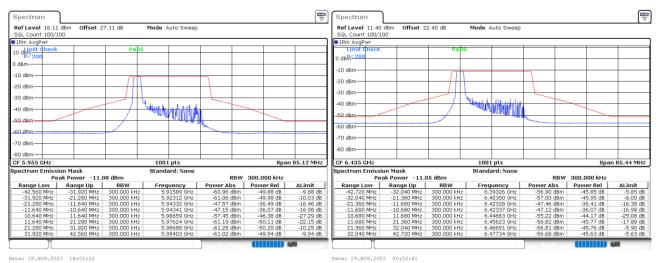


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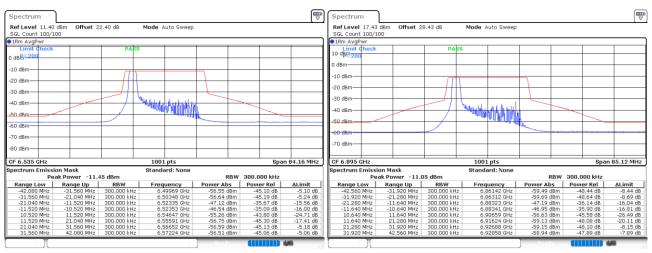
## Plot on Channel 5955 MHz

## Plot on Channel 6435 MHz



# Plot on Channel 6535 MHz

# Plot on Channel 6895 MHz



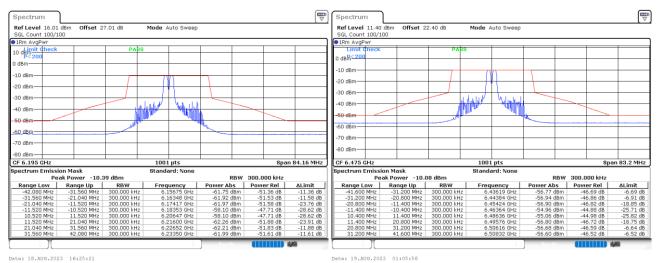
Date: 19.AUG.2023 01:29:12 Date: 21.AUG.2023 11:25:54

TEL: 886-3-327-0868 Page Number : 46 of 145
FAX: 886-3-327-0855 Issue Date : Sep. 28, 2023

# **EUT Mode** 802.11ax HE20 26RU4

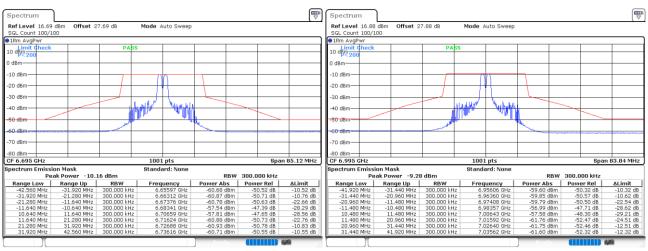
## Plot on Channel 6195 MHz

## Plot on Channel 6475 MHz



# Plot on Channel 6695 MHz

# Plot on Channel 6995 MHz



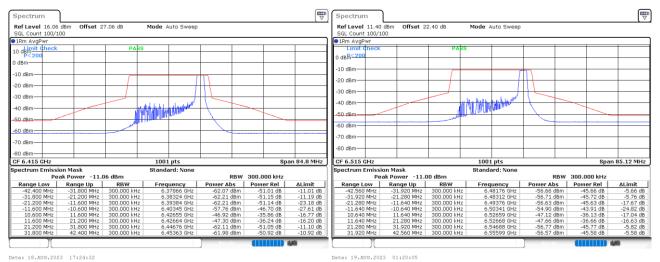
Date: 21.AUG.2023 09:46:29 Date: 21.AUG.2023 11:45:46

TEL: 886-3-327-0868 Page Number : 47 of 145
FAX: 886-3-327-0855 Issue Date : Sep. 28, 2023



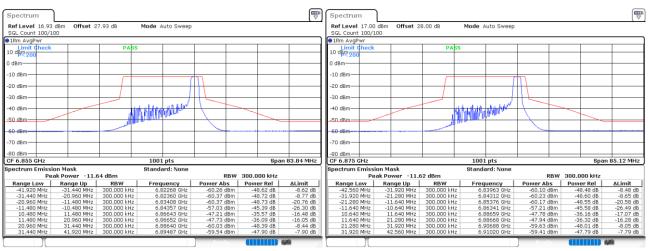
# Plot on Channel 6415 MHz

## Plot on Channel 6515 MHz



# Plot on Channel 6855 MHz

# Plot on Channel 6875 MHz



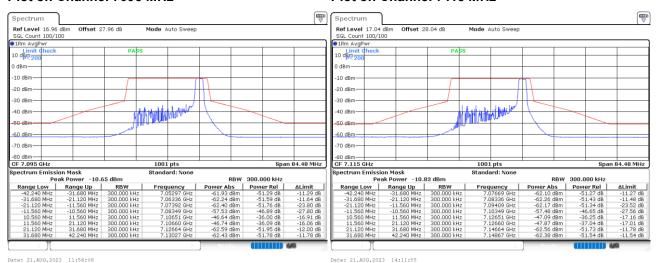
Date: 21.AUG.2023 10:15:02 Date: 21.AUG.2023 10:30:57

TEL: 886-3-327-0868 Page Number : 48 of 145
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# Plot on Channel 7115 MHz

Report No.: FR362117-01

: 03

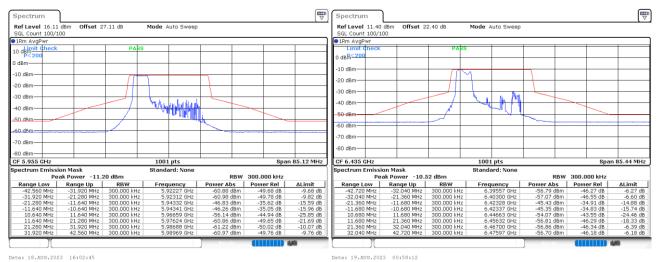


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FAX: 886-3-327-0855 Issue Date : Sep. 28, 2023

**EUT Mode** 802.11ax HE20 52RU37

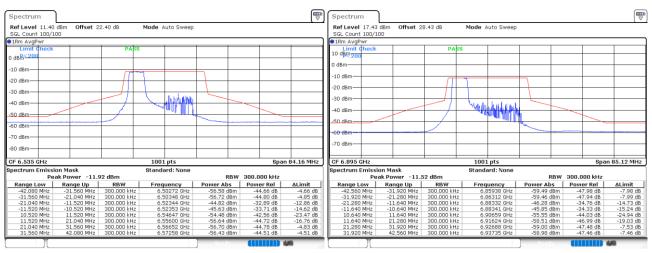
# Plot on Channel 5955 MHz

## Plot on Channel 6435 MHz



# Plot on Channel 6535 MHz

# Plot on Channel 6895 MHz



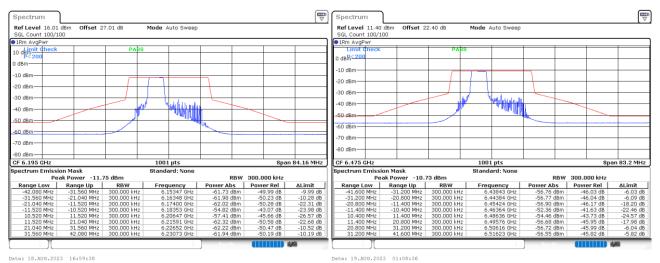
Date: 19.AUG.2023 01:32:03 Date: 21.AUG.2023 11:28:42

TEL: 886-3-327-0868 Page Number : 50 of 145
FAX: 886-3-327-0855 Issue Date : Sep. 28, 2023

# **EUT Mode** 802.11ax HE20 52RU38

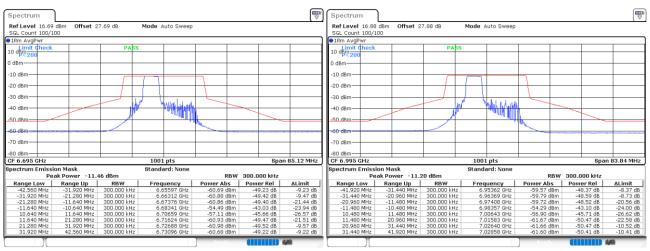
## Plot on Channel 6195 MHz

## Plot on Channel 6475 MHz



# Plot on Channel 6695 MHz

# Plot on Channel 6995 MHz



Date: 21.AUG.2023 09:50:50 Date: 21.AUG.2023 11:43:28

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FAX: 886-3-327-0855 Issue Date : Sep. 28, 2023