



FCC RADIO TEST REPORT

FCC ID	:	A4RGKV4X
Equipment	:	Phone
Model Name	:	GKV4X
Applicant	:	Google LLC 1600 Amphitheatre Parkway,
		Mountain View, California, 94043 USA
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Jul. 11, 2023 and testing was performed from Jul. 27, 2023 to Dec. 07, 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.

Louis 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.)

Page Number: 1 of 128Issue Date: Dec. 12, 2023Report Version: 01



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History of this test report

Report No.	Version	Description	Issue Date
FR380307J	01	Initial issue of report	Dec. 12, 2023



Summary of Test Result

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	9.61 dB under the limit at 54.30 MHz
3.7	15.207	AC Conducted Emission	Pass	22.19 dB under the limit at 0.47 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

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.

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: William Chen

Report Producer: Clio Lo

^{2.} The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature

General Specs

GSM/WCDMA/LTE/5G NR, Bluetooth, BLE, BLE channel sounding, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/ax, NFC, WPC Rx and GNSS Rx.

Antenna Type

WLAN:

<Ant. 4>: ILA Antenna <Ant. 3>: IFA Antenna

EUT Information List					
S/N	Performed Test Item				
38011JEKB00290	RF Conducted Measurement				
38011JEKB00050	Radiated Spurious Emission				
38011JEKB00085	Conducted Emission				
38011JEKB00300	Contention Based Protocol				

Antenna information						
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Ant. 4: -2.7 Ant. 3: -3.8				
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Ant. 4: -3.9 Ant. 3: -4.4				
6525 MHz ~ 6875 MHz	Peak Gain (dBi)	Ant. 4: -4.1 Ant. 3: -4.1				
6875 MHz ~ 7125 MHz	Peak Gain (dBi)	Ant. 4: -5.9 Ant. 3: -4.5				

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.1.1 Antenna Directional Gain

<For CDD Mode>

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

Directional gain = G_{ANT} + 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 $N_{ANT} \le 4$.

 $G_{\mbox{\scriptsize ANT}}$ is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

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

where

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

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

 N_{ANT} = the total number of antennas

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

As minimum N_{SS} =1 is supported by EUT, the formula can be simplified as:

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

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

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

			DG	DG
			for	for
	Ant 4	Ant 3	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	-2.70	-3.80	-2.70	-0.22
6425 MHz ~ 6525 MHz	-3.90	-4.40	-3.90	-1.14
6525 MHz ~ 6875 MHz	-4.10	-4.10	-4.10	-1.09
6875 MHz ~ 7125 MHz	-5.90	-4.50	-4.50	-2.16

Calculation example:

If a device has two antenna, G_{ANT4} = -2.7dBi; G_{ANT3} = -3.8dBi Directional gain of power measurement = max(-2.7, -3.8) + 0 = -2.7 dBi Directional gain of PSD derived from formula which is 10 x log { { [10^ (-2.7 dBi / 20) + 10^ (-3.8 dBi / 20)] ^ 2 } / 2 }

= -0.22 dBi



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.
Test Sile NO.	DF02-HY (TAF Code: 1190)
RemarkThe Contention Based Protocol test item is subcontracted to Sport International Inc. EMC & Wireless Communications Laboratory.	
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, CO07-HY, 03CH15-HY

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

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 v02r01
- 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.

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 antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find X plane with Adapter as worst plane.
- b. AC power line Conducted Emission was tested under maximum output power.

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	1	1	1	9	27		
	Freq. (MHz)	59	65	60	05	60	45	60	85	
BW 80M	Channel		7	7			2	3		
B VV OUIVI	Freq. (MHz)		59	85		6065				
BW 20M	Channel	33	37	41	45	49	53	57	61	
	Freq. (MHz)	6115	6135	6155	6155 6175		6215	6235	6255	
BW 40M	Channel	3	35		43		51		59	
	Freq. (MHz)	6125		61	6165		6205		6245	
				39		55				
BW 80M	Channel		3	9			5	5		

2.1 Carrier Frequency and Channel



BW 20M Freq. (MHz) 6275 6295 6315 6335 6375 6395 6415 BW 40M Channel 6275 6295 6315 6325 6325 6395 6415 BW 40M Freq. (MHz) 6285 6325 6325 6405 6405 BW 80M Channel 97 101 105 109 113 117 121 125 BW 40M Freq. (MHz) 6455 6475 6495 6515 6535 6575 6575 BW 40M Freq. (MHz) 6445 6455 6475 6495 6515 6535 6575 6575 BW 40M Channel 197 101 105 107 113 117 123 157 Freq. (MHz) 6545 6615 6655 6675 6695 6715 6735 BW 20M Channel 133 137 141 145 149 153 157 Freq. (MHz)		Channel	<u>c</u> e	69	73	77	81	85	89	93	
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Freq. (MHz)6765680568456885BW 80MChannel193167201205209213217221BW 20MChannel1931972012056995701570357055BW 40MChannel1931972012056995701570357055BW 80MChannel195695569756995701570357055BW 80MChannel19592032112151035BW 20MChannel22559355935703570357035BW 20MChannel225593559355935593559355935BW 20MChannel2252252292151035BW 20MChannel2252252292151035BW 40MChannel22522722910351035BW 40MChannel22522722910351035BW 40MChannel2252272291035BW 40MChannel2252272291035BW 40MChannel2252272271035BW 40MChannel2252272271035BW 40MChannel2252272271035BW 40MChannel2272272271035BW 40MChannel2272272371035BW 40M		Channel	16	63	171		179		187		
BW 80M Freq. (MHz) 678 678 688 688 BW 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 193 6935 6955 6975 6995 7015 7035 7055 BW 80M Channel 193 6935 6955 6975 6995 7015 7035 7055 BW 80M Channel 193 5035 6955 6975 7055 7055 7055 BW 20M Channel 953 5035 5035 5035 5035 7035 7035 7055 BW 20M Channel 9535 7075 7035 7035 7035 7055 BW 40M Channel 9535 7075 7095 7095 7095 7095 BW 40M Channel 9535 7075 227	BW 40M	Freq. (MHz)	67	65	6805		6845		6885		
Freq. (MHz) 6785 6865 BW 20M Channel 193 197 201 205 209 213 217 221 Freq. (MHz) 6915 6935 6955 6975 6995 7015 7035 7055 BW 40M 195 203 211 219 219 211 219 BW 40M 195 6925 6955 7005 7035 7055 BW 80M Channel 195 6965 7005 7025 7045 BW 80M Channel 199 215 7025 7025 7025 BW 20M Channel 199 5045 7025 7025 7025 BW 20M Channel 225 229 229 229 229 229 229 229 229 220 220 220 220 220 220 220 220 220 220 220 220 220 220 220 220 <t< th=""><th></th><th>Channel</th><th></th><th>10</th><th>67</th><th></th><th colspan="4">183</th></t<>		Channel		10	67		183				
BW 20M Freq. (MHz) 6915 6935 6975 6995 7015 7035 7055 BW 40M Channel 19^{-5} 2^{-3} 2^{-1} 2^{-1} 2^{-1} 2^{-1} BW 80M Channel 0^{-2}	BW 80M	Freq. (MHz)		67	'85		6865				
BW 20M Freq. (MHz) 6915 6935 6975 6995 7015 7035 7055 BW 40M Channel 19^{-5} 2^{-3} 2^{-1} 2^{-1} 2^{-1} 2^{-1} BW 80M Channel 0^{-2}		Channel	193	197	201	205	209	213	217	221	
BW 40M Channel 195 203 211 219 Freq. (MHz) 6925 6965 7005 7045 BW 80M Channel 199 215 7025 BW 80M Channel 225 229 BW 20M Channel 225 229 BW 20M Channel 205 7075 7095 BW 20M Channel 225 229 229 BW 40M Channel 225 229 229 BW 40M Channel 215 7095 7095	BW 20M				-						
BW 40M Freq. (MHz) 6925 6965 7005 7045 BW 80M Channel 19 215 Freq. (MHz) 6925 6965 7005 215 BW 80M Freq. (MHz) 6925 7025 7025 BW 20M Channel 225 229 7095 BW 20M Freq. (MHz) 7075 7095 7095				95							
BW 80M Freq. (MHz) 6945 7025 BW 20M Channel 225 229 Freq. (MHz) 7075 7095 BW 40M Channel 227	BW 40M		69	925	69	65			70	45	
Freq. (MHz) 6945 7025 BW 20M Channel 225 229 Freq. (MHz) 7075 7095 BW 40M Channel 227	DW/ COLL	Channel		1	99			2	15		
BW 20M Freq. (MHz) 7075 7095 BW 40M Channel 227	BW 80M	Freq. (MHz)		69	945			70	25		
BW 20M Freq. (MHz) 7075 7095 BW 40M Channel 227		Channel		2	25			22	29		
BW 40M Channel 227	BW 20M										
BW 40M						22	27				
	BW 40M	Freq. (MHz)									



2.2 Test Mode

This device support 26/52/106/242/484/996-tone RU channel.

The PSD of partial RU is reduced to be smaller than full RU according to TCB workshop interim guidance Oct. 2022.

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 partial RU modes in HE40/HE80 are covered by modes in HE20 because the power setting is identical

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

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

	Test Cases						
AC	Mode 1 : 5G NR n5 Link + WLAN (6GHz) Link + Bluetooth on + NFC on + USB						
Conducted Emission	Cable 3 (Charging from AC Adapter 2) + Handset mode ; Battery < 50%						
 Remark: 1. For Radiated Test Cases, the tests were performed with Adapter 1 and USB Cable 3. 2. During the preliminary test, both charging modes (Adapter mode and WPC Rx mode) were 							

verified. It is determined that the adaptor mode is the worst case for official test.



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.

		5.6.2.2 (b)
		Spurious Emissions
UNII-5	20MHz	Covered by 80MHz
	40MHz	Covered by 80MHz
	80MHz	Test
UNII-6	20MHz	Covered by 80MHz
	40MHz	Covered by 80MHz
	80MHz	Test
UNII-7	20MHz	Covered by 80MHz
	40MHz	Covered by 80MHz
	80MHz	Test
UNII-8	20MHz	Covered by 80MHz
	40MHz	Covered by 80MHz
	80MHz	Test



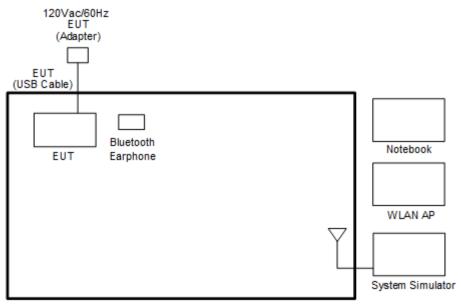
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)	
	-	802.11a	802.11a	802.11a	802.11a	
L	Low 001				-	
М	Middle	-	-	-	-	
H High		-	-	-	229	
	Straddle	-			-	
Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)	
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20	
L	Low	001	-	-	-	
М	Middle	-	-	-	-	
н	High	-	-	-	229	
\$	Straddle	-	-	-	-	
Ch. #						
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)	
	Ch. #					
L	Ch. # Low	(5925-6425 MHz)	(6425-6525 MHz)	(6525-6875 MHz)	(6875-7125 MHz)	
L		(5925-6425 MHz) 802.11ax HE40	(6425-6525 MHz) 802.11ax HE40	(6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE40	
	Low	(5925-6425 MHz) 802.11ax HE40	(6425-6525 MHz) 802.11ax HE40 -	(6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE40 -	
M H	Low Middle	(5925-6425 MHz) 802.11ax HE40 003 -	(6425-6525 MHz) 802.11ax HE40 - -	(6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE40 - -	
M H	Low Middle High	(5925-6425 MHz) 802.11ax HE40 003 -	(6425-6525 MHz) 802.11ax HE40 - -	(6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE40 - -	
M H	Low Middle High Straddle	(5925-6425 MHz) 802.11ax HE40 003 - - - - UNII-5	(6425-6525 MHz) 802.11ax HE40 - - - - - UNII-6	(6525-6875 MHz) 802.11ax HE40 - - - - - UNII-7	(6875-7125 MHz) 802.11ax HE40 - - 227 - UNII-8	
M H	Low Middle High Straddle	(5925-6425 MHz) 802.11ax HE40 003 - - - - - UNII-5 (5925-6425 MHz)	(6425-6525 MHz) 802.11ax HE40 - - - - - UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE40 - - - - - UNII-7 (6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE40 - - 227 - UNII-8 (6875-7125 MHz)	
M H	Low Middle High Straddle Ch. #	(5925-6425 MHz) 802.11ax HE40 003 - - - - UNII-5 (5925-6425 MHz) 802.11ax HE80	(6425-6525 MHz) 802.11ax HE40 - - - - - UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE40 - - - - - - UNII-7 (6525-6875 MHz) 802.11ax HE80	(6875-7125 MHz) 802.11ax HE40 - - 227 - 227 - (6875-7125 MHz) 802.11ax HE80	
H K	Low Middle High Straddle Ch. #	(5925-6425 MHz) 802.11ax HE40 003 - - - UNII-5 (5925-6425 MHz) 802.11ax HE80 007	(6425-6525 MHz) 802.11ax HE40 - - - - UNII-6 (6425-6525 MHz) 802.11ax HE80	(6525-6875 MHz) 802.11ax HE40 - - - - - - (6525-6875 MHz) 802.11ax HE80 135	(6875-7125 MHz) 802.11ax HE40 - - 227 - 227 - (6875-7125 MHz) 802.11ax HE80 199	

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.

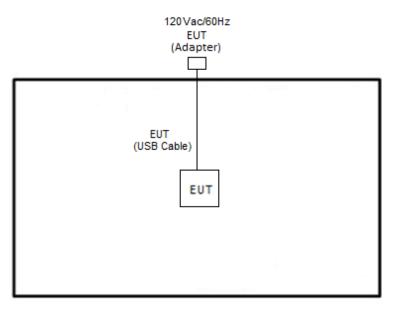


2.3 Connection Diagram of Test System





<WLAN Tx Mode>



2.4 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY700A2029	N/A	N/A
3.	WLAN AP	Netgear	RAXE500	PY320300508	N/A	Unshielded, 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

2.5 EUT Operation Test Setup

The RF test items, utility "adb command 1.0.32" 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

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.

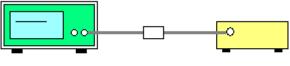
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

- 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
- 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 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 * RBW.
- 8. Measure and record the results in the test report.

3.1.4 Test Setup



Spectrum Analyzer

EUT

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

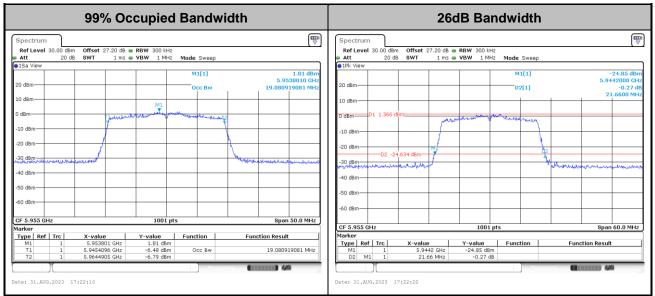


MIMO <Ant. 4+3>

<802.11a>



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

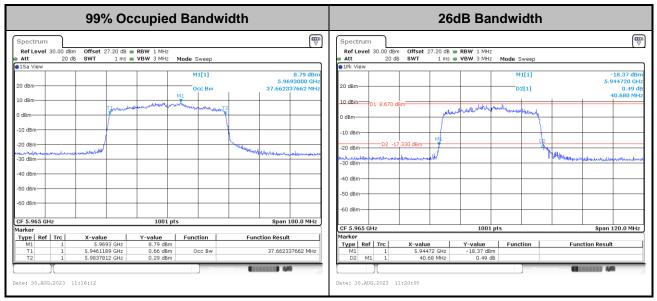


<802.11ax HE20>

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

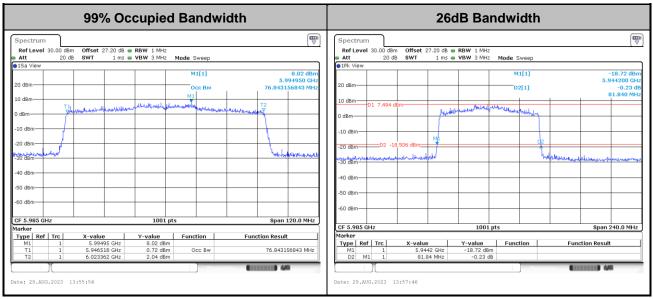


<802.11ax HE40>



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

<802.11ax HE80>



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

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.

3.2.2 Measuring Instruments

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

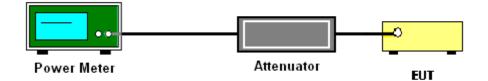
3.2.3 Test Procedures

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.

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-2

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

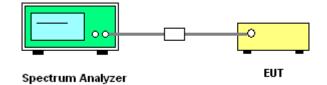
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), 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.



3.3.4 Test Setup

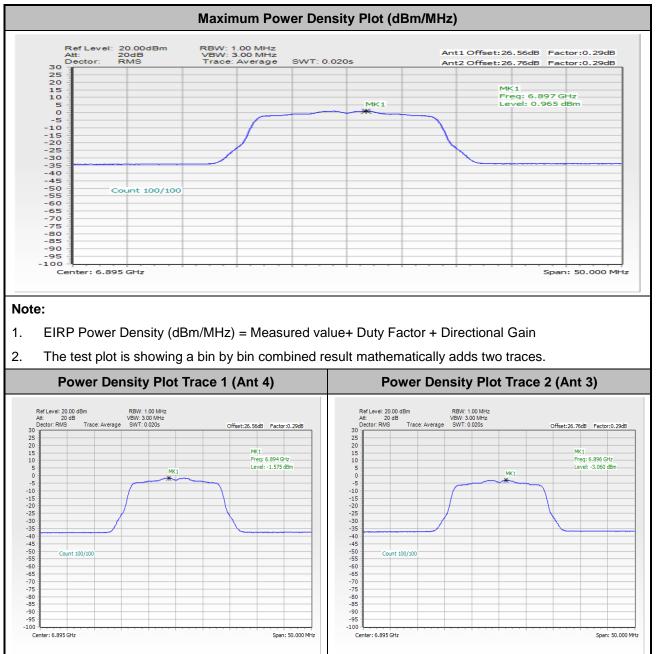


3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



<802.11a>





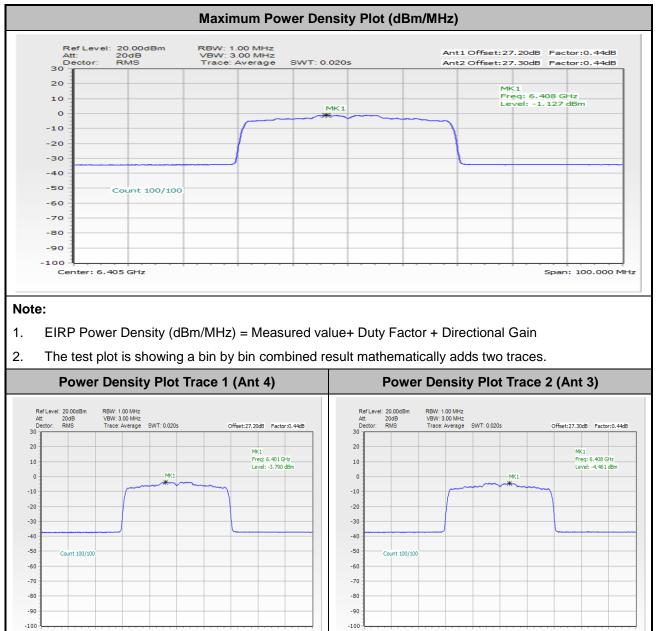
<802.11ax HE20>





<802.11ax HE40>

Center: 6.405 GHz



Span: 100.000 MHz

Center: 6.405 GHz

Span: 100.000 MHz



<802.11ax HE80>





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.



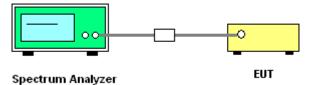
3.4.3 Test Procedures

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



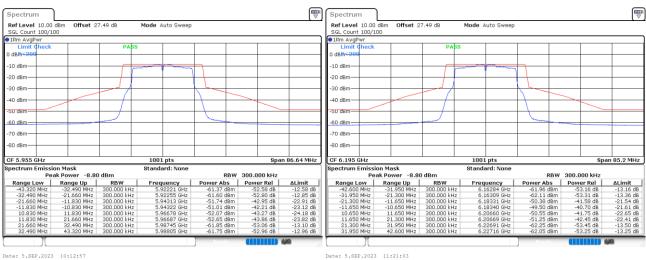


3.4.5 Test Result

MIMO <Ant. 4+3(4)>

EUT Mode	802.11a

Plot on Channel 5955 MHz

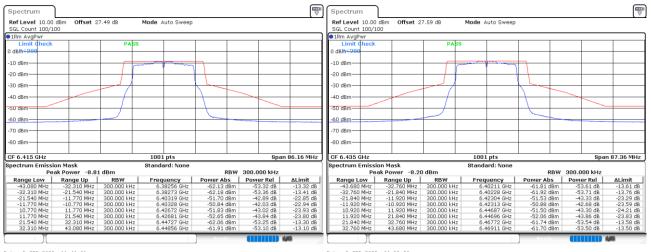


Date: 5.SEP.2023 10:12:57

Plot on Channel 6415 MHz

Plot on Channel 6435 MHz

Plot on Channel 6195 MHz

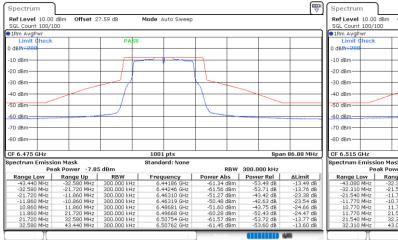


Date: 5.SEP.2023 11:41:01

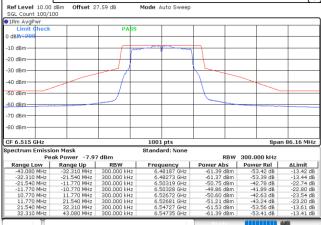
Date: 5.SEP.2023 11:55:23



Plot on Channel 6475 MHz



Plot on Channel 6515 MHz



Date: 5.SEP.2023 12:02:27

Plot on Channel 6535 MHz

Spectrum Spectrum Ref Level 10.00 dBm SGL Count 100/100 1Rm AvgPwr Limit ¢heck Offset 27.69 dB Mode Auto Swee Ref Level 10.00 dBm Offset 27.69 dB Mode Auto Swee 100/10 SGL Count 100/: 91Rm AvgPwr Limit Check) dBm -10 dBm--10 dBm -20 dBm--20 dBm--30 dBm-30 dBm -40 dBm-40 dBm -50 dBm--50 dBm--60 dBm-60 dBm-70 dBm 70 dBm -80 dBm-80 dBm-CF 6.535 GHz 1001 pts CF 6.695 GHz ectrum Emission Mask Peak Powe ectrum Emission Mask Peak Powe rd: N -7.75 dBm 300.000 kHz RBW -8.13 dBm RBW 300.000 kHz Power Abs Power Rel -61.42 dBm -53.67 dB -61.42 dBm -53.67 dB -51.25 dBm -43.50 dB -50.56 dBm -42.81 dB -51.42 dBm -44.21 dB -51.42 dBm -44.21 dB -51.42 dBm -44.74 dB -51.49 dBm -44.74 dB -61.49 dBm -53.73 dB RBW 2 300.000 kHz -43.440 MH Range Up -32,580 MHz Frequency -43.440 MH Range Up -32,580 MHz ΔLimit -13.67 dB -13.79 dB -23.47 dB -23.72 dB -24.90 dB -24.71 dB -13.79 dB -13.73 dB -43.440 MHz -32.580 MHz -21.720 MHz -11.860 MHz 10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz -32.580 MHz -21.720 MHz -11.860 MHz -10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz 43.440 MHz 50229 GHz 50246 GHz 52310 GHz 52319 GHz 54681 GHz 54690 GHz 56745 GHz 56841 GHz -43.440 MHz -32.580 MHz -21.720 MHz -11.860 MHz 10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz -32.580 MHz -21.720 MHz -11.860 MHz -10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz 43.440 MHz .860 .860 .720 .580

1001 pts RBW 300.000 kHz Frequency -61.43 dBm Power Rel 5.66220 GHz 5.66246 GHz 5.68310 GHz 5.68319 GHz 5.70681 GHz 5.71668 GHz 5.72754 GHz 5.72971 GHz -53.30 dB -53.50 dB -43.71 dB -42.75 dB -43.82 dB -52.23 dB -53.32 dB -53.14 dB -61.62 dBm -51.83 dBm -50.87 dBm -51.95 dBm -60.36 dBm -13.55 -23.67 -23.66 -24.73 dB dB dB dB dB dB dB .36 dBm .44 dBm .26 dBm -61 -61

Date: 5.SEP.2023 14:01:44

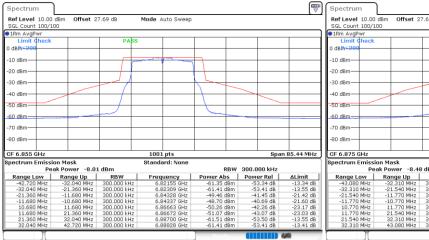
Date: 5.SEP.2023 14:21:19

Date: 5.SEP.2023 13:44:05

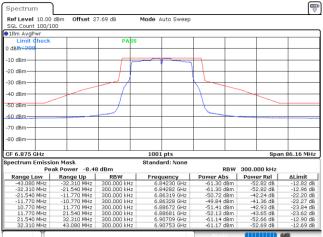
Plot on Channel 6695 MHz



Plot on Channel 6855 MHz



Plot on Channel 6875 MHz



Date: 5.SEP.2023 14:38:09

Plot on Channel 6895 MHz

Plot on Channel 6995 MHz ₽ Spectrum Spectrum Ref Level 15.85 dBm SGL Count 100/100 IRm AvgPwr 10 dbimit check p < 200 Offset 26.85 dB Mode Auto Swee Ref Level 10.00 dBm Offset 27.89 dB Mode Auto Swee 100/10 SGL Count 100/: 91Rm AvgPwr Limit Check) dBm 0 dBm-10 dBm -10 dBm -20 dBm--20 dBm-30 dBm -30 dBm-40 dBm--40 dBm--50 dBm -50 dBm-60 dBm -60 dBm 70 dBm -70 dBm-80 dBm-80 dBm Span 86.4 MHz CF 6.995 GHz 1001 pts CF 6.895 GHz 1001 pts ectrum Emission Mask Peak Powe ectrum Emission Mask Peak Powe 300.000 kHz -6.88 dBm RBW -6.64 dBm RBW 300.000 kHz Power Abs Power Rel -61.30 dBm -54.41 dB -61.47 dBm -54.42 dB -50.47 dBm -43.29 dB -42.80 dBm -42.40 dB -51.47 dBm -44.59 dB -61.24 dBm -44.53 dB -61.62 dBm -43.57 dB -61.24 dBm -54.35 dB -61.05 dBm -54.17 dB RBW 300.000 kHz RBW 300.000 kHz ALimit -14.41 dB -14.65 dB -23.26 dB -23.31 dB -24.66 dB -24.55 dB -14.40 dB -14.17 dB 42 440 MH Frequency -43,200 MH -32,400 MH Frequency Range Up -32,580 MHz -59.97 dBm Power Rel -13.32 dB -13.40 dB -23.99 dB -24.08 dB -25.55 dB -25.00 dB -15.66 dB -15.51 dB -43.200 MHz -32.400 MHz -21.600 MHz -11.800 MHz 10.800 MHz 11.800 MHz 21.600 MHz 32.400 MHz -32.400 MHz -21.600 MHz -11.800 MHz -10.800 MHz 11.800 MHz 21.600 MHz 32.400 MHz 43.200 MHz 5.86256 GHz 5.86264 GHz 5.88316 GHz 5.88325 GHz 5.90675 GHz 5.90684 GHz 5.92736 GHz 5.92736 GHz 5.92753 GHz -43.440 MHz -32.580 MHz -21.720 MHz -11.860 MHz 10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz -32.580 MHz -21.720 MHz -11.860 MHz -10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz 43.440 MHz 5.96238 GHz 5.96246 GHz 5.98310 GHz 5.98319 GHz 7.00681 GHz 7.00690 GHz 7.02754 GHz 7.02771 GHz -59.97 dBm -60.00 dBm -50.67 dBm -49.82 dBm -51.29 dBm -51.68 dBm -62.25 dBm -62.16 dBm -53.32 dB -53.35 dB -44.02 dB -43.17 dB -44.64 dB -45.04 dB -55.61 dB -55.51 dB .92736 .92753 600 400

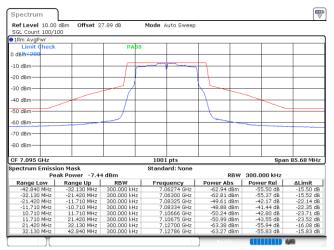
Date: 7.DEC.2023 10:57:18

Date: 5.SEP.2023 15:21:55

Date: 5.SEP.2023 15:06:09



Plot on Channel 7095 MHz



Date: 5.SEP.2023 16:02:09

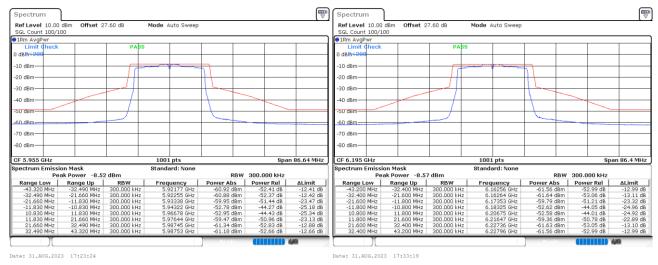




802.11ax HE20 Full RU

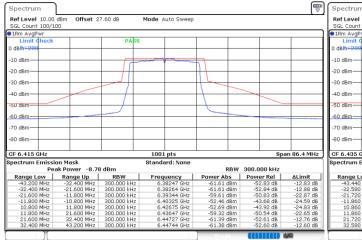


Plot on Channel 6195 MHz



Plot on Channel 6415 MHz

Plot on Channel 6435 MHz



Date: 31.AUG.2023 17:41:44

Spectrum Ref Level 10.00 dBm SGL Count 100/100 IRm AvgPwr Limit ¢heck Offset 27.70 dB Mode Auto Sweep PAS CF 6.435 GHz 36.88 MH 1001 pt: pectrum Emission Mask Peak Power
 Storn Mosk
 Peak Power
 -7.87 dBm

 Range Up
 RBW
 800.000 kHz

 2
 -325.500 MHz
 300.000 kHz

 2
 -21.720 MHz
 300.000 kHz

 2
 -11.660 MHz
 300.000 kHz

 2
 -10.660 MHz
 300.000 kHz

 2
 -10.660 MHz
 300.000 kHz

 2
 1.160 MHz
 300.000 kHz

 2
 1.25 MHz
 300.000 kHz

 2
 2.25 MHz
 300.000 kHz

 2
 3.25 MHz
 300.000 kHz

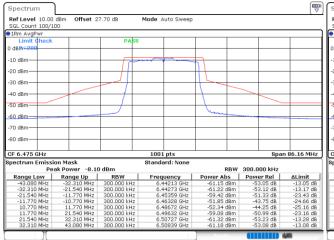
 2
 4.3440 MHz
 300.000 kHz
 Standard: N RBW_ 300.000 kHz Power Abs Power Rel -61.41 dBm -53.54 dB -43.440 MH 6.40090 GH; -13.54 dB -13.61 dB -24.03 dB -25.88 dB -25.78 dB -23.81 dB -13.56 dB -13.50 dB -43.440 MHz -32.580 MHz -21.720 MHz -11.860 MHz 10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz -61.41 dBm -61.44 dBm -59.58 dBm -52.84 dBm -52.74 dBm -59.65 dBm 5.40090 GHz 5.40246 GHz 5.41367 GHz 5.42319 GHz 5.44681 GHz 5.45668 GHz 5.46754 GHz 5.46780 GHz 54 dB 57 dB 71 dB 97 dB 87 dB .78 dB .51 dB .50 dB -53.5 -51.7 -44.9 -44.8 -51.78 -51.78 -53.51 -53.50 -61.39 dBm -61.37 dBm

Date: 1.SEP.2023 17:14:49

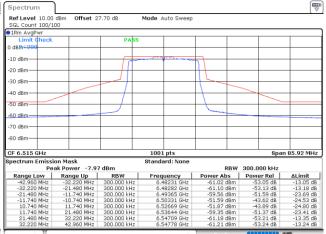
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Plot on Channel 6475 MHz



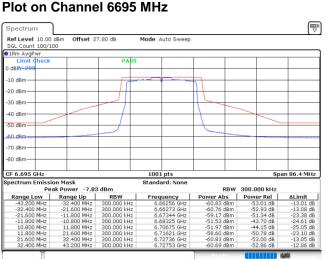
Plot on Channel 6515 MHz



Date: 1.SEP.2023 17:32:29

Plot on Channel 6535 MHz

Spectrum Spectrum Ref Level 10.00 dBm SGL Count 100/100 1Rm AvgPwr Limit ¢heck Offset 27.80 dB Mode Auto Swee) dBm -10 dBm--10 dBm -20 dBm--20 dBm--30 dBm-30 dBm -40 dBm-40 dBm--50 dBm--50 dBm--60 dBm-60 dBm -70 dBm 70 dBm -80 dBm-80 dBm-CF 6.535 GHz 1001 pts ectrum Emission Mask Peak Powe rd: N RBW 300.000 kHz -7.97 dBm RBW 300.000 kHz -43.440 MH Range Up -32,580 MHz Frequency -60.95 dBm -52.98 dB △Limit -12.98 dB -13.15 dB -23.71 dB -25.33 dB -25.78 dB -23.75 dB -13.26 dB -13.07 dB -43.440 MHz -32.580 MHz -21.720 MHz -11.860 MHz 10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz -32.580 MHz -21.720 MHz -11.860 MHz -10.860 MHz 11.860 MHz 21.720 MHz 32.580 MHz 43.440 MHz 5.50238 GHz 5.50246 GHz 5.51350 GHz 5.52319 GHz 5.54681 GHz 5.5659 GHz 5.56754 GHz 5.56754 GHz -60.95 dBm -61.08 dBm -59.51 dBm -52.39 dBm -52.85 dBm -59.62 dBm -61.19 dBm -61.04 dBm -52.98 dB -53.10 dB -51.54 dB -44.42 dB -44.87 dB -51.64 dB -53.21 dB -53.07 dB 1.860 1.860 1.720 2.580



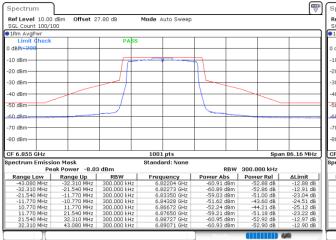
Date: 1.SEP.2023 17:49:06

Date: 4.SEP.2023 14:34:47

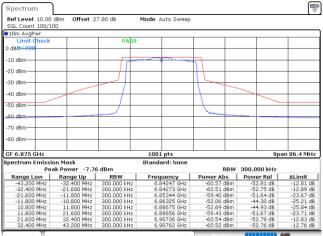
Date: 1.SEP.2023 17:40:31



Plot on Channel 6855 MHz



Plot on Channel 6875 MHz



Date: 4.SEP.2023 15:36:40

Plot on Channel 6895 MHz

Plot on Channel 6995 MHz Spectrum Spectrum Ref Level 15.96 dBm SGL Count 100/100 IRm AvgPwr 10 dbimit check p < 200 Offset 26.96 dB Mode Auto Swee Ref Level 10.00 dBm Offset 28.00 dB Mode Auto Sweet SGL Count 100/: 91Rm AvgPwr Limit Check PASS) dBm 0 dBm--10 dBm -10 dBm -20 dBm--20 dBm-30 dBm -30 dBm-40 dBm--40 dBm--50 dBm -50 dBm 60 dBm -60 dBm 70 dBm -70 dBm-80 dBman dam CF 6.895 GHz Span 86.08 MHz CF 6.995 GHz 1001 pts 1001 pts ectrum Emission Mask Peak Powe ectrum Emission Mask Peak Powe -7.23 dBm RBW 300.000 kHz -6.43 dBm RBW 300.000 kHz ALimit -13.88 dB -14.04 dB -24.51 dB -24.95 dB -25.51 dB -24.26 dB -14.01 dB -13.85 dB Frequency -43.040 MH Range Up -32.280 MHz Frequency -61.11 dBm -53.88 dB -43.320 MH Range Up -32,490 MHz -59.27 dBm RBW 300.000 kHz -32.490 MHz -21.660 MHz -11.830 MHz -10.830 MHz 11.830 MHz 21.660 MHz 32.490 MHz 43.320 MHz .280 MHz .520 MHz .760 MHz .760 MHz .760 MHz .520 MHz .280 MHz .040 MHz 5.86250 GHz 5.86276 GHz 5.87361 GHz 5.88329 GHz 5.90671 GHz 5.91596 GHz 5.92724 GHz 5.92732 GHz -53.88 dB -53.99 dB -52.41 dB -44.05 dB -44.60 dB -51.80 dB -53.96 dB -53.85 dB -43.320 MHz -32.490 MHz -21.660 MHz -11.830 MHz 10.830 MHz 11.830 MHz 21.660 MHz 32.490 MHz 5.96221 GHz 5.96255 GHz 5.97338 GHz 5.98322 GHz 7.00678 GHz 7.01653 GHz 7.02745 GHz 7.02762 GHz -59.27 dBm -59.37 dBm -58.69 dBm -51.34 dBm -51.61 dBm -59.59 dBm -61.38 dBm -61.29 dBm -43.040 MHz -32.280 MHz -21.520 MHz -11.760 MHz 10.760 MHz 11.760 MHz -61.22 dBm -59.64 dBm -51.28 dBm -51.83 dBm -59.03 dBm -21. -11. -10. 11. 21. 32. 43. MH2 MH2 MH2 -61.19 dBm -61.08 dBm 660 490

Date: 6.DEC.2023 18:17:13

Date: 4.SEP.2023 17:22:53

Date: 4.SEP.2023 16:35:06

RBW

300.000 kHz

 Power Rel

 h
 -52.94 dB

 h
 -52.94 dB

 h
 -52.95 dB

 h
 -44.91 dB

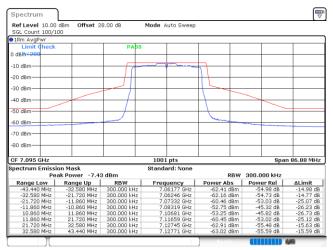
 h
 -53.16 dB

 h
 -54.95 dB

-12.84 dB -12.99 dB -24.29 dB -25.82 dB -26.09 dB -25.27 dB -14.99 dB -14.85 dB



Plot on Channel 7095 MHz



Date: 4.SEP.2023 17:45:34



Span 86.08 MHz

-14.46 dB -14.75 dB -26.10 dB -26.44 dB -32.95 dB -26.15 dB -14.19 dB -14.13 dB

RBW_ 300.000 kHz

Powe

-62.11 dBm -62.35 dBm -53.78 dBm -53.18 dBm -59.69 dBm -61.69 dBm -61.79 dBm -61.78 dBm

 RBW
 300.000 KHz

 Abs
 Power Rel

 1 dBm
 554.46 dB

 5 dBm
 -54.71 dB

 8 dBm
 -46.13 dB

 9 dBm
 -52.05 dB

 9 dBm
 -52.05 dB

 9 dBm
 -54.41 dB

 9 dBm
 -54.43 dB

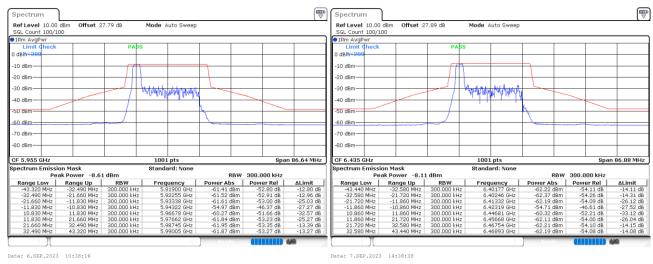


EUT Mode

802.11ax HE20 26RU0

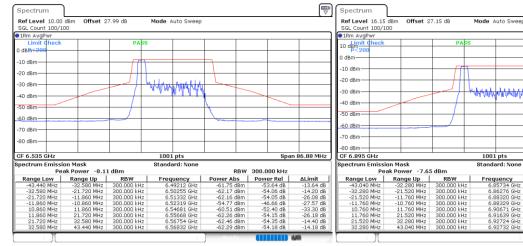


Plot on Channel 6435 MHz



Plot on Channel 6535 MHz

Plot on Channel 6895 MHz



Date: 7.SEP.2023 15:20:43

Date: 6.DEC.2023 18:26:49

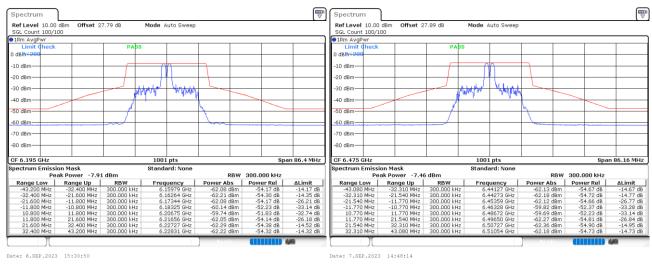




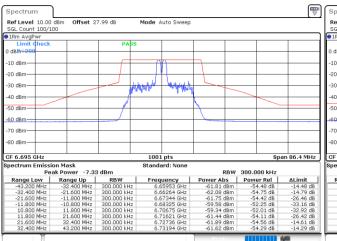
802.11ax HE20 26RU4



Plot on Channel 6475 MHz

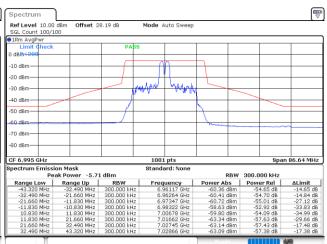


Plot on Channel 6695 MHz



Date: 7.SEP.2023 15:40:16

Plot on Channel 6995 MHz



Date: 7.SEP.2023 16:54:25



Spa

-13.68 dB -13.86 dB -25.74 dB -32.77 dB -27.53 dB -25.23 dB -13.51 dB -13.24 dB

RBW_ 300.000 kHz

-53.68 dB -53.81 dB -53.64 dB -51.86 dB -46.62 dB -53.19 dB -53.46 dB -53.24 dB

-61.72 dBm -61.85 dBm -61.68 dBm -59.90 dBm -54.66 dBm -61.23 dBm -61.23 dBm

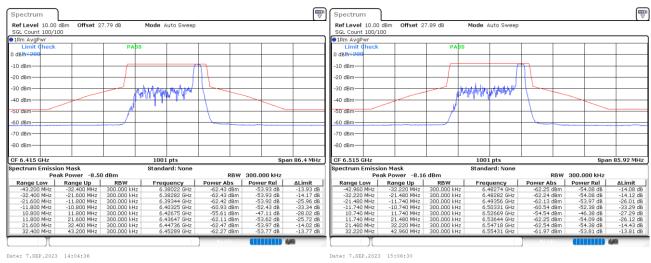


EUT Mode

802.11ax HE20 26RU8

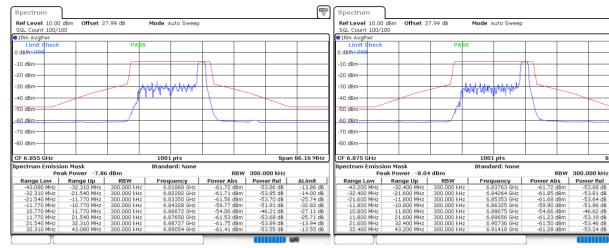


Plot on Channel 6515 MHz



Plot on Channel 6855 MHz

Plot on Channel 6875 MHz

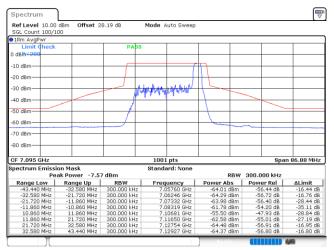


Date: 7.SEP.2023 16:13:30

Date: 7.SEP.2023 16:29:14



Plot on Channel 7095 MHz



Date: 7.SEP.2023 17:10:55

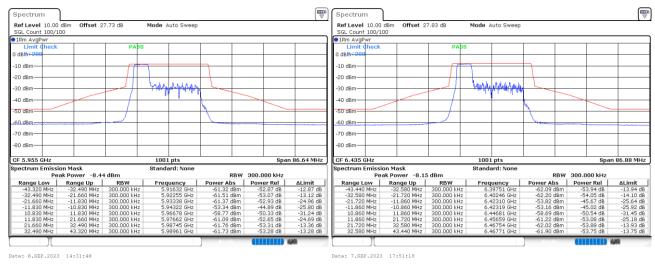




802.11ax HE20 52RU37



Plot on Channel 6435 MHz

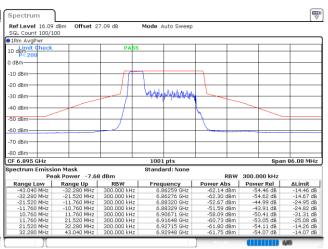


Plot on Channel 6535 MHz

₽ Ref Level 10.00 dBm SGL Count 100/100 Offset 27.93 dB Mode Auto Sweep SGL Count 10 IRm AvgPwr Limit ¢he PASS o dBR<2 -10 dBm--20 dBm-Appla -30 dBm--40 dBm -50 dBm--60 dBm--70 dBm--80 dBm-CF 6.535 GHz 1001 pt 5.88 MH pectrum Emission Mask Peak Power RBW 300.000 kHz Abs Power Rel 26 dBm -53.72 dB 55 dBm -54.12 dB 15 dBm -44.95 dB 1 dBm -50.88 dB 14 dBm -53.24 dB 04 dBm -53.24 dB 04 dBm -54.12 dB Standard -8.23 dBm Peak Power -8.23 dBm Range tow Range Up Rew -33 + 60 MHz -32 550 MHz 300.000 H42 -34 + 60 MHz -32 550 MHz 300.000 H42 -21 270 MHz -31.960 MHz 300.000 H42 -21 270 MHz -11.960 MHz 300.000 H42 -11.860 MHz -10.860 MHz 300.000 H42 11.860 MHz 11.860 MHz 300.000 KHz 21.720 MHz 23.250 MHz 300.000 KHz 23.450 MHz 300.000 KHz 300.000 KHz 23.580 MHz 300.000 KHz 300.000 KHz 20.580 MHz 300.000 KHz 300.000 KHz Frequency 6 49412 GH △Limit -13.72 dB -14.26 dB -25.59 dB -25.86 dB -31.79 dB -25.49 dB -14.22 dB -14.22 dB -61.96 dBm -62.35 dBm -53.85 dBm -53.18 dBm -59.11 dBm -61.48 dBm -62.40 dBm -62.35 dBm 5.49412 GHz 5.0255 GHz 5.2310 GHz 5.2319 GHz 5.54681 GHz 5.5641 GHz 5.56754 GHz 5.56875 GHz

Date: 8.SEP.2023 10:08:30

Plot on Channel 6895 MHz



Date: 6.DEC.2023 18:30:14

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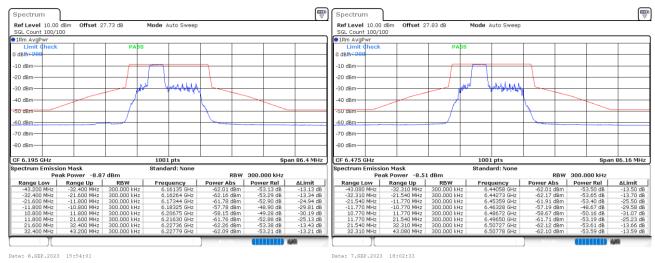




802.11ax HE20 52RU38



Plot on Channel 6475 MHz

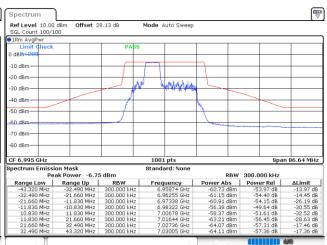


Plot on Channel 6695 MHz

₽ Ref Level 10.00 dBm SGL Count 100/100 Offset 27.93 dB Mode Auto Sweep SGL Count 10 IRm AvgPwr Limit ¢he PASS o dBR<2 -10 dBm--20 dBm-Anthony -30 dBm--40 dBm -50 dBm--60 dBm--70 dBm--80 dBm-CF 6.695 GHz 1001 pt pectrum Emission Mask Peak Power Jectrum Emission maar Peak Power - 8.36 dBm Range Low Range Up RBW -43.200 MHz -32.400 MHz 300.000 kHz -32.400 MHz -21.600 MHz 300.000 kHz -21.600 MHz -21.600 MHz 300.000 kHz -21.600 MHz -21.600 MHz 300.000 kHz -11.800 MHz -11.800 MHz 300.000 kHz -11.800 MHz -11.800 MHz 300.000 kHz -11.800 MHz -11.800 MHz 300.000 kHz -11.800 MHz -14.800 MHz 300.000 kHz -21.600 MHz -21.600 MHz 300.000 kHz -11.800 MHz -21.600 MHz 300.000 kHz -21.600 MHz -21.600 MHz -20.000 kHz -21.600 MHz -21.600 MHz -20.000 kHz RBW_ 300.000 kHz Frequency 45590 GH Abs Power Rel Power △Limit -13.65 dB -13.70 dB -25.56 dB -29.90 dB -31.03 dB -25.43 dB -13.58 dB -13.58 dB -13.42 dB -62.01 dBm -62.01 dBm -61.88 dBm -57.35 dBm -58.48 dBm -61.75 dBm -61.89 dBm -61.78 dBm 5.65590 GHz 5.66264 GHz 5.67344 GHz 5.68325 GHz 5.70675 GHz 5.71656 GHz 5.72736 GHz 5.72839 GHz -53.65 dB -53.65 dB -53.52 dB -48.99 dB -50.12 dB -53.39 dB -53.53 dB -53.53 dB -53.42 dB

Date: 8.SEP.2023 10:19:24

Plot on Channel 6995 MHz



Date: 8.SEP.2023 11:12:43

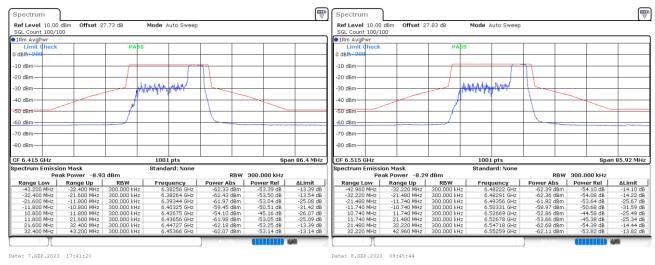




802.11ax HE20 52RU40



Plot on Channel 6515 MHz

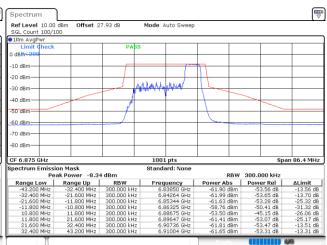


Plot on Channel 6855 MHz

₽ Ref Level 10.00 dBm SGL Count 100/100 Offset 27.93 dB Mode Auto Sweep SGL Count 10 91Rm AvgPwr Limit ¢he PASS o dBR<2 -10 dBm--20 dBmhere where the second -30 dBm--40 dBm -50 dBm--60 dBm--70 dBm--80 dBm-CF 6.855 GHz 1001 pt .16 MH pectrum Emission Mask Peak Power pectrum Emission Mask Peak Power - 0.04 dBm Range Low Range Up RBW -43.080 MHz -32.310 MHz 300.000 kHz -23.2310 MHz -23.2310 MHz 300.000 kHz -23.240 MHz -21.540 MHz 300.000 kHz -11.770 MHz -11.770 MHz 300.000 kHz -12.770 MHz -10.770 MHz 300.000 kHz -21.540 MHz 22.300 MHz 300.000 kHz -21.540 MHz 22.310 MHz 300.000 kHz -22.540 MHz 43.080 MHz 300.000 kHz RBW 300.000 kHz Abs Power Rel 34 dBm -53.80 dB Frequency Powe △Limit -13.80 dB -14.15 dB -25.73 dB -31.49 dB -25.89 dB -24.09 dB -13.93 dB -13.66 dB -53.80 dB -54.10 dB -53.62 dB -50.58 dB -44.98 dB -52.05 dB -53.89 dB -53.66 dB -61.84 -62.14 -61.66 -58.62 -53.02 5.82230 GHz 5.82273 GHz 5.83359 GHz 5.84328 GHz 5.86672 GHz 5.86672 GHz 5.87650 GHz 5.88727 GHz 5.89054 GHz .14 dBm .66 dBm .62 dBm dBm -61.93 dBm

Date: 8.SEP.2023 10:48:19

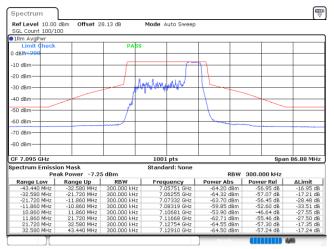
Plot on Channel 6875 MHz



Date: 8.SEP.2023 11:03:31



Plot on Channel 7095 MHz



Date: 8.SEP.2023 11:28:10

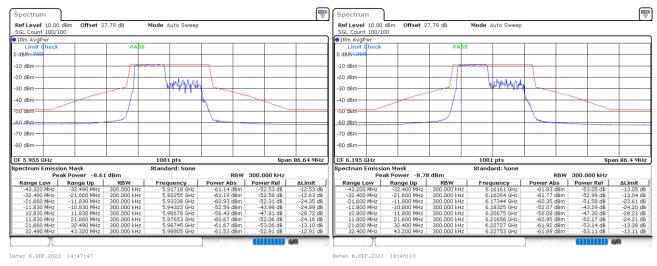




802.11ax HE20 106RU53



Plot on Channel 6195 MHz

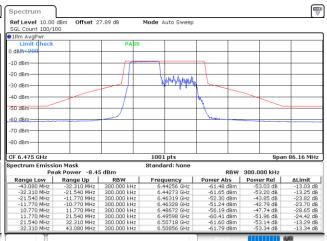


Plot on Channel 6435 MHz

₽ Ref Level 10.00 dBm SGL Count 100/100 Offset 27.89 dB Mode Auto Sweep SGL Count 10 IRm AvgPwr Limit ¢he PASS o dBR<2 -10 dBm--20 dBm-WHAM -30 dBm--40 dBm -50 dBm--60 dBm--70 dBm--80 dBm-CF 6.435 GHz E 6.435 GHz Peak Power - 8.46 dBm Ronge Lop Ronge Up Box 24.00 W Ronge Up 800.000 Hz -22.560 Hz -31.270 Hz 300.000 Hz -22.560 Hz -31.270 Hz 300.000 Hz -31.270 Hz -11.860 Hz 300.000 Hz -11.860 Hz -10.360 Hz 300.000 Hz 11.860 Hz -10.270 Hz 300.000 Hz 21.270 Hz 23.250 Hz 300.000 Hz 21.460 Hz -10.260 Hz 300.000 Hz 21.4700 Hz 23.250 Hz 300.000 Hz 21.720 Hz 23.80 Hz 300.000 Hz 1001 pt .88 MH Standard: RBW 300.000 kHz Abs Power Rel 3 dBm -53.18 dB Frequency △Limit -13.18 dB -13.45 dB -23.54 dB -23.91 dB -28.72 dB -24.50 dB -13.35 dB -13.20 dB Powe 5.39934 GHz 5.40255 GHz 5.42310 GHz 5.42319 GHz 5.42681 GHz 5.44681 GHz 5.45650 GHz 5.46754 GHz 5.46797 GHz .18 dB .31 dB .57 dB .00 dB .81 dB .32 dB .30 dB .20 dB .76 dBm .03 dBm .45 dBm .27 dBm .78 dBm -61 -52 -51 -56 -61 .76 dBm

Date: 14.SEP.2023 16:21:38

Plot on Channel 6475 MHz



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-13.35 dB -13.66 dB -24.08 dB -24.50 dB -30.00 dB -26.68 dB -16.70 dB -16.52 dB

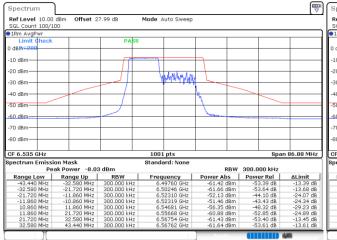
300.000 kHz

-53.35 dB -53.61 dB -44.11 dB -43.59 dB -49.09 dB -54.29 dB -56.55 dB -56.52 dB

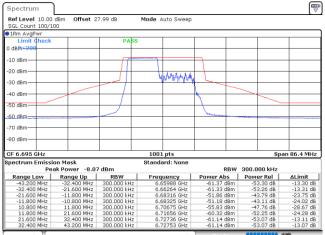
Power Rel



Plot on Channel 6535 MHz



Plot on Channel 6695 MHz



Date: 14.SEP.2023 17:19:01

Plot on Channel 6895 MHz

Plot on Channel 6995 MHz Spectrum Spectrum Ref Level 16.15 dBm SGL Count 100/100 IRm AvgPwr 10 dbmit check p < 200 Offset 27.15 dB Mode Auto Swee Ref Level 10.00 dBm Offset 28.19 dB Mode Auto Swee SGL Count 100/: 91Rm AvgPwr Limit Check PAS PARS) dBm 0 dBm-10 dBm -10 dBm -20 dBm-MMMMM -20 dBm-30 dBm historytalyzadi -30 dBm 40 dBm--40 dBm--50 dBm--50 d8m-60-dBm -60 dBm-70 dBm -70 dBm-80 dBman dam CF 6.895 GHz Span 86.08 MHz CF 6.995 GHz 1001 pts 1001 pts ectrum Emission Mask Peak Powe ectrum Emission Mask Peak Powe rd: N -7.96 dBm RBW 300.000 kHz -6.74 dBm RBW RBW 300.000 kHz Frequency ALimit -13.78 dB -13.97 dB -23.63 dB -23.63 dB -28.75 dB -24.65 dB -13.67 dB -13.54 dB -43.040 MH Range Up -32.280 MH Freque ncy -61.74 dBm -53.78 dB -43.320 MH Range Up -32,490 MHz -60.09 dBn RBW 300.000 kHz -32.490 MHz -21.660 MHz -11.830 MHz -10.830 MHz 11.830 MHz 21.660 MHz 32.490 MHz 43.320 MHz .280 MHz .520 MHz .760 MHz .760 MHz .760 MHz .520 MHz .280 MHz .040 MHz 5.86147 GHz 5.86276 GHz 5.88320 GHz 5.88329 GHz 5.90671 GHz 5.91639 GHz 5.92724 GHz 5.92750 GHz -53.78 dB -53.92 dB -43.49 dB -42.72 dB -47.84 dB -52.55 dB -53.62 dB -53.54 dB -43.320 MHz -32.490 MHz -21.660 MHz -11.830 MHz 10.830 MHz 11.830 MHz 21.660 MHz 32.490 MHz 5.95978 GHz 5.96255 GHz 5.98313 GHz 5.98322 GHz 7.00678 GHz 7.01618 GHz 7.02736 GHz 7.02762 GHz -60.09 dBm -60.35 dBm -50.85 dBm -50.33 dBm -55.83 dBm -61.03 dBm -63.29 dBm -63.26 dBm -43.040 MHz -32.280 MHz -21.520 MHz -11.760 MHz 10.760 MHz 11.760 MHz 1.74 dBm 1.88 dBm 1.45 dBm 1.68 dBm 5.80 dBm 1.51 dBm -21. -11. -10. 11. 21. 32. 43. -61 -51 -50 -55 -61 -61 MH2 MH2 MH2 .58 dBm 660 490

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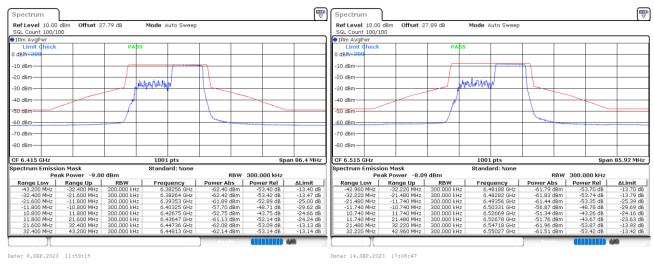




802.11ax HE20 106RU54



Plot on Channel 6515 MHz

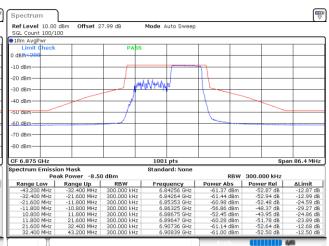


Plot on Channel 6855 MHz

₽ Ref Level 10.00 dBm SGL Count 100/100 Offset 27.99 dB Mode Auto Sweep SGL Count 10 IRm AvgPwr Limit ¢he PASS o dBR<2 -10 dBm--20 dBmphalpharth -30 dBm--40 dBm SIL dBm--60 dBm--70 dBm--80 dBm-CF 6.855 GHz 1001 pt .16 MH pectrum Emission Mask Peak Power Peak Power - 9.56 dBm Peak Power - 9.56 dBm Range Low Range Up RBW -43.080 MHz -32.310 MHz 300.000 kHz -23.210 MHz -32.310 MHz 300.000 kHz -23.310 MHz -21.540 MHz 300.000 kHz -21.540 MHz -11.770 MHz 300.000 kHz -11.770 MHz -10.770 MHz 300.000 kHz -11.770 MHz 21.540 MHz 300.000 kHz -21.540 MHz 23.200 MHz 300.000 kHz -23.310 MHz 300.000 kHz 300.000 kHz -23.310 MHz 32.01 MHz 300.000 kHz RBW 300.000 kHz Power Abs Power Rel -61.40 dbm -52.83 dB -61.52 dbm -52.29 dB -60.84 dbm -52.29 dB -51.61.6 dbm -47.60 dB -51.68 dbm -47.12 dB -54.64 dbm -52.29 dB -61.45 dbm -52.26 dB -61.44 dbm -52.26 dB Frequency △Limit -12.83 dB -13.01 dB -24.39 dB -28.51 dB -24.03 dB -23.13 dB -12.93 dB -12.68 dB 5.82118 GHz 5.82273 GHz 5.83359 GHz 5.84328 GHz 5.86672 GHz 5.86672 GHz 5.87650 GHz 5.88727 GHz 5.88830 GHz

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Plot on Channel 6875 MHz

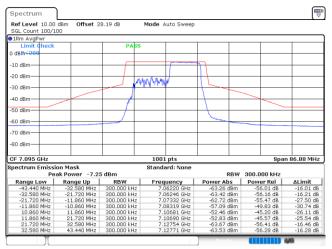


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Plot on Channel 7095 MHz



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