FCC RADIO TEST REPORT

FCC ID	:	**UZ7TC58BE**
Equipment	:	**Touch Computer**
Brand Name	:	**Zebra**
Model Name	:	**TC58BE**
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 Jan. 10, 2024 and testing was performed from Jan. 28, 2024 to Jun. 17, 2024. 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.)

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History of this test report

Report No.	Version	Description	Issue Date
FR411108P	01	Initial issue of report	Aug. 21, 2024

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)(7)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(7)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
-	15.407(d)(6)	Contention Based Protocol	Pass	Please refer to report number FR411108O
3.5	15.407 KDB 987594 D02 Section II. L.	Standard Client Proper Power Adjustment Measurement	Pass	-
3.6	15.407 KDB 987594 D02 Section II. K.	Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP	Pass	-
3.7	15.407(b)	Unwanted Emissions	Pass	1.22 dB under the limit at 5920.20 MHz
3.8	15.207	AC Conducted Emission	Pass	18.52 dB under the limit at 0.16 MHz
3.9	15.203 15.407(a)	Antenna Requirement	Pass	-
Note: Not required means after assessing, test items are not necessary to carry out.				

Conformity Assessment Condition:
1. ECR inquiry for data referencing from UZ7TC58AE has been approved by FCC. The ECR inquiry and the associated document are submitted in the confidential exhibit. 2. UZ7TC58BE is different from FCC ID: UZ7TC58AE (Reference model), in the following: i. The only difference between UZ7TC58AE and UZ7TC58BE are the WWAN support bands, which is controlled by software. 3. All the test results are referenced from UZ7TC58AE (Sporton Test Report FR411111I), and spot check results to justify data referencing is presented in the Appendix G. 4. 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. 5. 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: Wei Chen

Report Producer: Rebecca Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	Touch Computer
Brand Name	Zebra
Model Name	TC58BE
FCC ID	UZ7TC58BE
Supported Radio application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE

1.2 EUT Information (Referenced Model)

Product Feature	
FCC ID	UZ7TC58AE
Sample 1	SE55 + 8GB | 128G (Samsung/SK Hynix)
Sample 2	SE4720 + 6GB | 64G (SK Hynix/WD)
Sample 3	SE4770 + 6GB | 64G (SK Hynix/WD)
EUT supports Radios application	WCDMA/HSPA/LTE/5G NR/NFC/GNSS WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE
HW Version	DV1-2
SW Version	nemesis_A13_userdebug_GMS_RelKey_2023-12-12-0451_main_SE
FW Version	FUSION_QA_6_1.1.0.004_T
MFD	06DEC23
EUT Stage	Identical Prototype

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

Specification of Accessories				
Adapter	**Brand Name**	Zebra	**Part Number**	PWR-WUA5V12W0US
Battery 1 (1x)	**Brand Name**	Zebra	**Part Number**	BT-000442-0020
Battery 2 (1.5x)	**Brand Name**	Zebra	**Part Number**	BT-000442-0820
Battery 3 (BLE battery)	**Brand Name**	Zebra	**Part Number**	BT-000442-002B
Battery 4 (Wireless Battery)	**Brand Name**	Zebra	**Part Number**	BT-000442-002A
Battery 5 (1x)	**Brand Name**	Zebra	**Part Number**	BT-000442-1020
USB TYPE A to TYPE C cable	**Brand Name**	Zebra	**Part Number**	CBL-TC5X-USBC2A-01
USB TYPE C to 3.5mm audio connector	**Brand Name**	Zebra	**Part Number**	ADP-USBC-35MM1-01
3.5mm Earphone	**Brand Name**	Zebra	**Part Number**	HDST-35MM-PTT1-01
Rugged Headset	**Brand Name**	Zebra	**Part Number**	HS2100-OTH
USB TYPE C Earphone	**Brand Name**	Zebra	**Part Number**	HPST-USBC-PTT1-01
Trigger Handle	**Brand Name**	Zebra	**Part Number**	TRG-NGTC5-ELEC-01
Soft Holster	**Brand Name**	Zebra	**Part Number**	SG-NGTC5TC7-HLSTR-01
TC53/TC58 RUGGED BOOT	**Brand Name**	Zebra	**Part Number**	SG-NGTC5EXO1-01
3.5mm to 3.5mm audio connector	**Brand Name**	Zebra	**Part Number**	CBL-HS2100-3MS1-01

1.3 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Channel Frequency Range	5925 MHz ~ 6425 MHz 6525 MHz ~ 6875 MHz
Maximum Output Power to Antenna	**MIMO <Ant. 6+7>:** **<5925 MHz ~ 6425 MHz>** 802.11a: 19.86 dBm / 0.0968 W 802.11ax: HE20: 19.81 dBm / 0.0957 W 802.11ax: HE40: 19.96 dBm / 0.0991 W 802.11ax: HE80: 19.77 dBm / 0.0948 W 802.11ax: HE160: 19.17 dBm / 0.0826 W **<6525 MHz ~ 6875 MHz>** 802.11a: 21.86 dBm / 0.1535 W 802.11ax: HE20: 21.46 dBm / 0.1400 W 802.11ax: HE40: 20.46 dBm / 0.1112 W 802.11ax: HE80: 19.41 dBm / 0.0873 W 802.11ax: HE160: 18.91 dBm / 0.0778 W
99% Occupied Bandwidth	**MIMO <Ant. 6>** 802.11a: 16.33 MHz 802.11ax: HE20: 18.88 MHz 802.11ax: HE40: 37.86 MHz 802.11ax: HE80: 76.96 MHz 802.11ax: HE160: 156.08 MHz **MIMO <Ant. 7>** 802.11a: 16.33 MHz 802.11ax: HE20: 18.88 MHz 802.11ax: HE40: 37.86 MHz 802.11ax: HE80: 76.96 MHz 802.11ax: HE160: 155.84 MHz
Antenna Type / Gain	**<5925 MHz ~ 6425 MHz>** <Ant. 6>: PIFA Antenna with gain 3.07 dBi <Ant. 7>: PIFA Antenna with gain 1.43 dBi **<6525 MHz ~ 6875 MHz>** <Ant. 6>: PIFA Antenna with gain 2.14 dBi <Ant. 7>: PIFA Antenna with gain 1.56 dBi
Type of Modulation	802.11a : OFDM (BPSK/QPSK/16QAM/64QAM) 802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)

Product Specification is subject to this standard			
Antenna Function Description		Ant. 6	Ant. 7
	802.11a/ax MIMO	V	V
	802.11ax TXBF	V	V

Remark:

1. MIMO Ant. 6+7 Directional Gain is a calculated result from MIMO Ant. 6 and MIMO Ant. 7. The formula used in calculation is documented in section 1.2.1.
2. Power of MIMO Ant. 6 + Ant. 7 is a calculated result from sum of the power MIMO Ant. 6 and MIMO Ant. 7.
1. 802.11ax Support Tx Beamforming mode, and the manufacturer declares that Tx Beamforming power/EIRP is less than CDD mode 3dbm, so CDD mode cover Tx Beamforming mode.
2. 802.11ax support full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) are tested for conducted power/PSD/Channel Mask in appendix A, all the other test case were performed with full RU with its maximum power/PSD.
3. The EUT does not support channel puncturing mode.
4. The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.3.1 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 $N_{ANT} \leq 4$.

G_{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 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_{SS}=1 is supported by EUT, the formula can be simplified as:

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

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

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

	Ant 6 (dBi)	Ant 7 (dBi)	DG for Power (dBi)	DG for PSD (dBi)
5925 MHz ~ 6425 MHz	3.07	1.43	3.07	5.30
6525 MHz ~ 6875 MHz	2.14	1.56	2.14	4.87

Calculation example:

If a device has two antenna, G_{ANT6}= 3.07dBi; G_{ANT7}= 1.43dBi

Directional gain of power measurement = max(3.07, 1.43) + 0 = 3.07 dBi

Directional gain of PSD derived from formula which is

10 x log { { [10^ (3.07 dBi / 20) + 10^ (1.43 dBi / 20)] ^ 2 } / 2 }

= 5.30 dBi

<For TXBF Modes>

The EUT supports beamforming modes then

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

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

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 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 for Power (dBi)	DG for PSD (dBi)
		Ant 6 (dBi)	Ant 7 (dBi)		
5925 MHz ~ 6425 MHz		3.07	1.43	5.30	5.30
6525 MHz ~ 6875 MHz		2.14	1.56	4.87	4.87

Calculation example:

Directional gain is derived from formula which is

10 x log { { [10^ (3.07 dBi / 20) + 10^ (1.43 dBi / 20)] ^ 2 } / 2 } = 5.30 dBi

1.4 Modification of EUT

No modifications made to the EUT during the testing.

1.5 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	**Sporton Site No.**
	CO05-HY (TAF Code: 1190)
Remark	The AC Conducted Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory.

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, 03CH20-HY

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

FCC designation No.: TW1190 and TW3786

1.6 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.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT 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 only the worst case emissions were reported in this report.

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		11		19		27	
	Freq. (MHz)	5965		6005		6045		6085	
BW 80M	**Channel**	7				23			
	Freq. (MHz)	5985				6065			
BW 160M	**Channel**	15							
	Freq. (MHz)	6025							

BW 20M	**Channel**	33	37	41	45	49	53	57	61
	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
BW 40M	**Channel**	35		43		51		59	
	Freq. (MHz)	6125		6165		6205		6245	
BW 80M	**Channel**	39				55			
	Freq. (MHz)	6145				6225			
BW 160M	**Channel**	47							
	Freq. (MHz)	6185							

BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71				87			
	Freq. (MHz)	6305				6385			
BW 160M	Channel	79							
	Freq. (MHz)	6345							

BW 20M	Channel	117	121	125
	Freq. (MHz)	6535	6555	6575
BW 40M	Channel	115	123	
	Freq. (MHz)	6525	6565	
BW 80M	Channel	119		
	Freq. (MHz)	6545		

BW 20M	Channel	129	133	137	141	145	149	153	157
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	131		139		147		155	
	Freq. (MHz)	6605		6645		6685		6725	
BW 80M	Channel	135				151			
	Freq. (MHz)	6625				6705			
BW 160M	Channel	143							
	Freq. (MHz)	6665							

BW 20M	Channel	161	165	169	173	177	181
	Freq. (MHz)	6755	6775	6795	6815	6835	6855
BW 40M	Channel	163		171		179	
	Freq. (MHz)	6765		6805		6845	
BW 80M	Channel	167			183		
	Freq. (MHz)	6785			6865		

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.

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 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 Conducted Emission	Mode 1 : WLAN (5GHz) Link + Bluetooth Link + Battery 2 (1.5x) + USB TYPE A to TYPE C Cable (Charging from Adapter) for Sample 1
Remark: For Radiated Test Cases, the tests were performed with Battery 1 (1x) and Sample 1.	

Ch. #		UNII-5 (5925-6425 MHz)	UNII-7 (6525-6875 MHz)
		802.11a	802.11a
L	Low	001	117
M	Middle	049	149
H	High	093	185

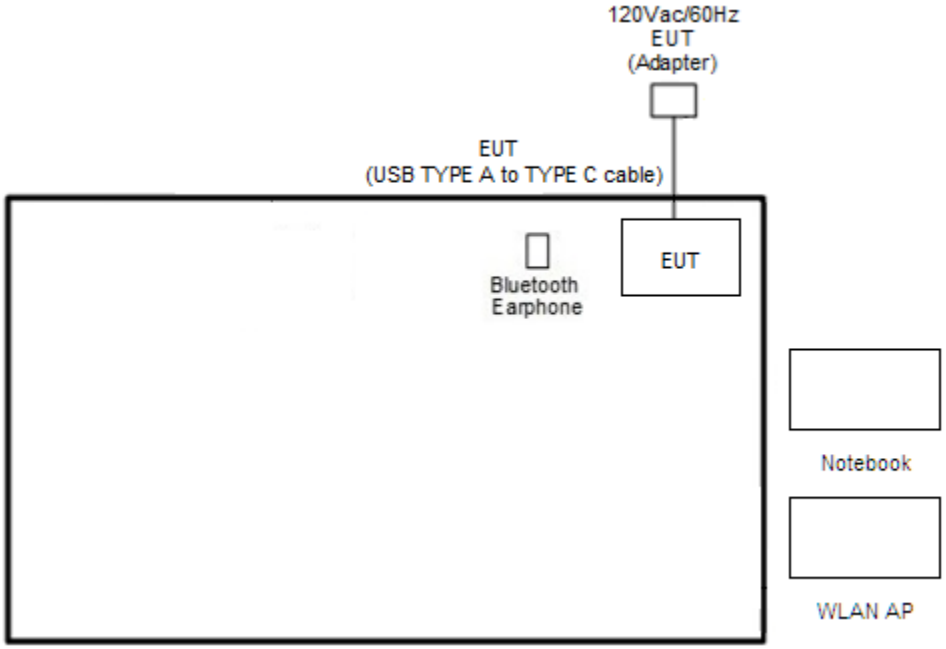
Ch. #		UNII-5 (5925-6425 MHz)			
		802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L	Low	001	003	007	015
M	Middle	049	051	055	047
H	High	093	091	087	079

Ch. #		UNII-7 (6525-6875 MHz)			
		802.11ax HE20	802.11ax HE40	802.11ax HE80	802.11ax HE160
L	Low	117	123	135	-
M	Middle	149	147	151	-
H	High	-	-	-	143
Straddle		185	187	183	175

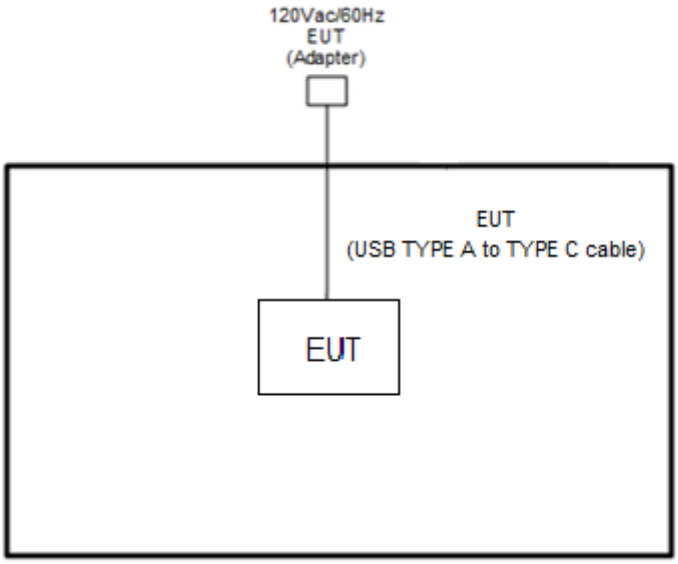
Remark: Based on ANSI C63.10 clause 5.6.2.2, b) Spurious emissions, measure the mode with the highest output power and the mode with highest output power spectral density for each modulation family.

2.3 Connection Diagram of Test System

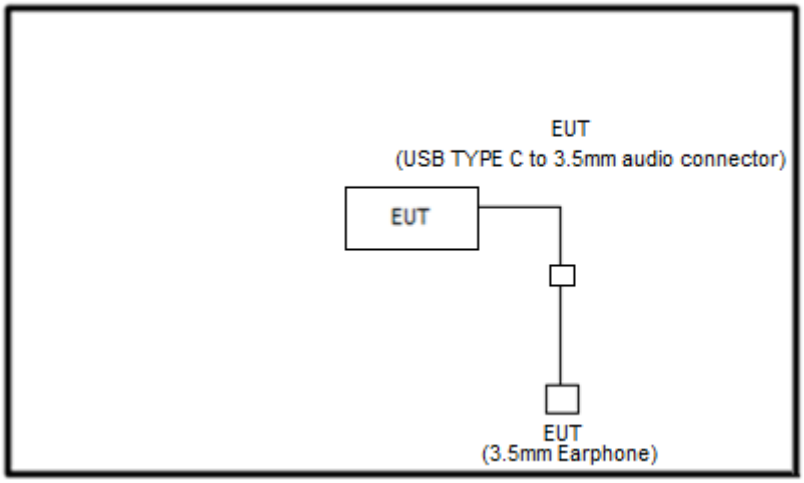
<AC Conducted Emission Mode>



<WLAN Tx with Adapter Mode>



<WLAN Tx with Earphone Mode>



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	PY7DDA-2029	N/A	N/A
2.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	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 5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, utility "QRCT Version 4.0.211.0" 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.

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.

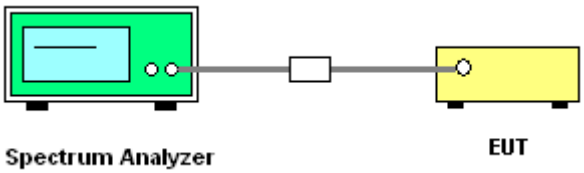
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth
2. Set RBW = approximately 1% of the emission bandwidth.
3. Set the VBW > RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
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) ≥ 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.

3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access
point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm and the device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

3.2.2 Measuring Instruments

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

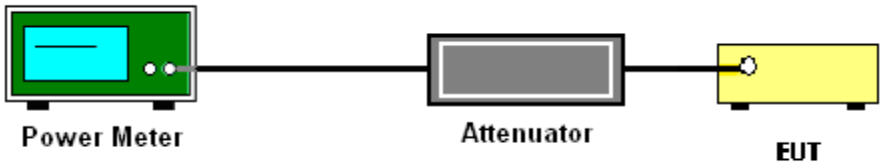
3.2.3 Test Procedures

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)(7) For client devices, except for fixed client devices as defined in this subpart, operating under the control of a standard power access point in 5.925-6.425 GHz and 6.525-6.875 GHz bands, the maximum power spectral density must not exceed 17 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).

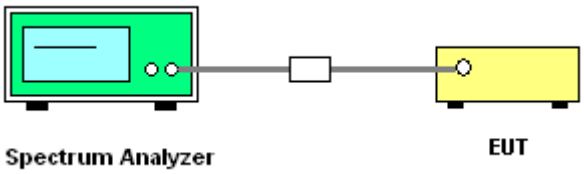
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x),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

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 v02r01.

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 ≥ [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.

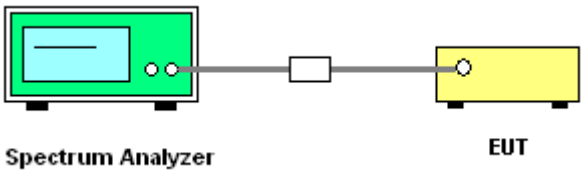
   h) Use the peak search function on the instrument to find the peak of the spectrum.
3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) 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



3.5 Standard Client Proper Power Adjustment Measurement

3.5.1 Limit of Standard Client Proper Power Adjustment

15.407 KDB 987594 D02 Section II. L. Power limits for standard client devices

c) The maximum power limits shall remain at least 6 dB below the power levels authorized for the associated standard-power access point

3.5.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section L. Proper Power Adjustment

3.5.3 Proper Power Adjustment, Client Devices Connected to a Standard Power Access Point

A client device that connects to a Standard Power AP must limit its power to a minimum of 6 dB lower than its associated Standard Power access point's authorized transmit power. The term "authorized" means the AFC-approved power level for the AP to use on a particular channel.

Test procedure to show that the client device can lower its power accordingly.

3.5.4 Test Procedure:

1. Connect equipment as shown in Figure 7 below.
2. Adjust Atten 1 to Std Power AP so as to facilitate error free communication with the Client but protect the Client receiver from overload or damage.
3. Configure the Client and AP so that they associate and start sending data (stream data). The AP should be configured such that its registered power is 36 dBm EIRP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Use this power, along with its antenna gain, to calculate the Client EIRP.
6. The Client EIRP should be minimally 6 dB lower than that of the AP.
7. Repeat Steps 2 through 5 at two other selected measurement points – the first at the midpoint and the second at the lowest rated power of the client as declared by the manufacturer.

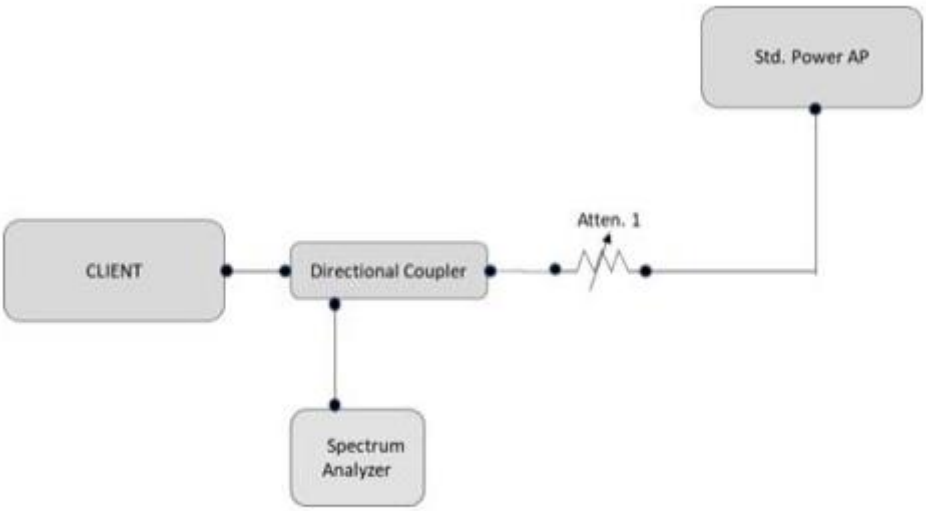


Figure 7. Test setup for conducted testing

3.5.5 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

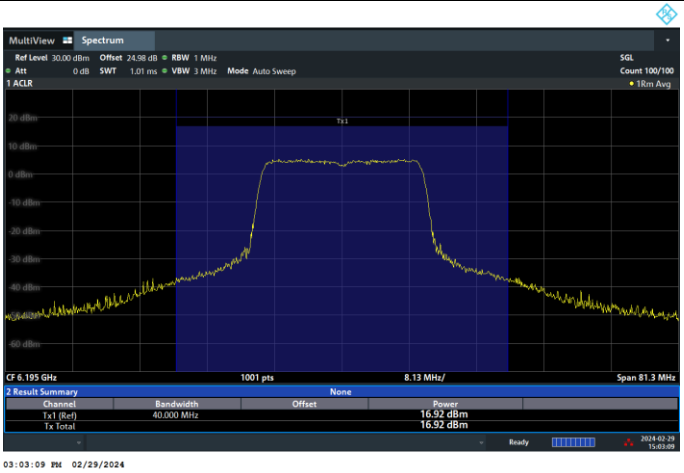
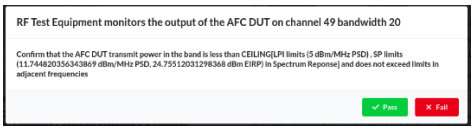
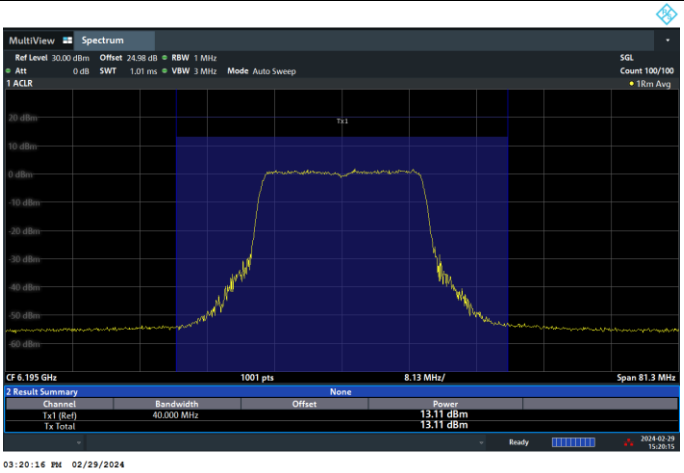
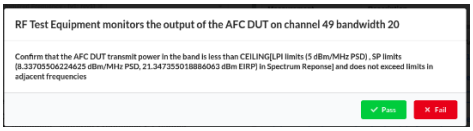
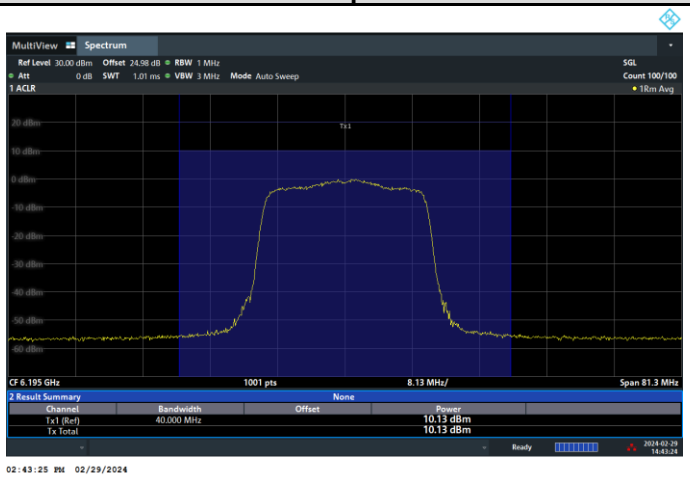
802.11ax 20MHz bandwidth

Test channel 49

	Client conducted Power (dBm)	Client EIRP (dBm)	AP EIRP (dBm)	AP to client EIRP Delta (dB)
Maximum EIRP	16.92	19.99	34.46	14.47
Midpoint EIRP	13.11	16.18	24.75	8.57
Lowest EIRP	10.13	13.20	21.34	8.14
Requirement				At least 6 dB
Result				Pass

Note: Client EIRP = Client conducted power + antenna gain 3.07 dBi

3.5.6 Test Result Plot

AP EIRP 34.46dBm	Measured highest power Client conducted power 16.92dBm
	
AP EIRP 24.75dBm	**Measured mid-point power Client conducted power 13.11dBm**
	
AP EIRP 21.34dBm	**Measured lowest power Client conducted power 10.13dBm**
	

3.6 Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

3.6.1 Limit of Proper Power Adjustment

15.407 KDB 987594 D02 Section II. K. Power limits for standard client devices

A client device may connect to a Standard Power AP with a maximum power level of 30 dBm EIRP. A client may also connect to a Low Power indoor AP, but the power level is limited to a maximum of 24 dBm EIRP.

3.6.2 Test Procedures of Standard Client Proper Power Adjustment

The testing follows FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v02r01.

Section K. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

3.6.3 Test Procedure:

1. Connect equipment as shown in Figure 6 below..
2. Adjust Atten 2 to Std Power AP so as to facilitate error free communication with the Client (Atten 1 should be set to High on the RF path to the Low Power AP)
3. Configure the Client and APs so that they associate and start sending data (stream data). It is important that the client is configured to transmit at its highest power level. Initially, because the attenuation on Atten 1 is set high, the Client will only associate with the Std Power AP.
4. Verify transmission between Client and Std Power AP. Additional attenuators may be required to protect measurement equipment. Measure the Client RF power using any of the methods in C63.10 for NII devices.
5. Gradually increase Atten 2 while at the same time decreasing Atten 1. This simulates the Client moving from outdoors to indoors. At some level of attenuation the Client should associate with the Low Power indor AP.
6. Verify transmission between Client and Low Power AP.
7. Measure the RF power of the Client device using the same method as in step 4. Verify the power is no more than 24 dBm EIRP

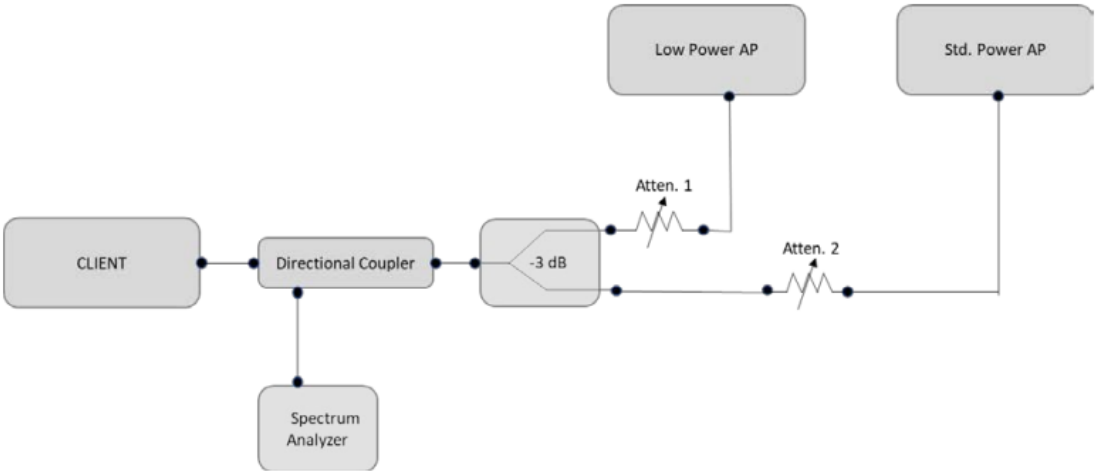


Figure 6. Test setup for conducted testing

3.6.4 Test Result Summary

Companion Standard Power AP: Brand name: Qualcomm, Model name: Wakiki

Companion Indoor Power AP: Brand name: ASUS, Model name: GT-AXE11000

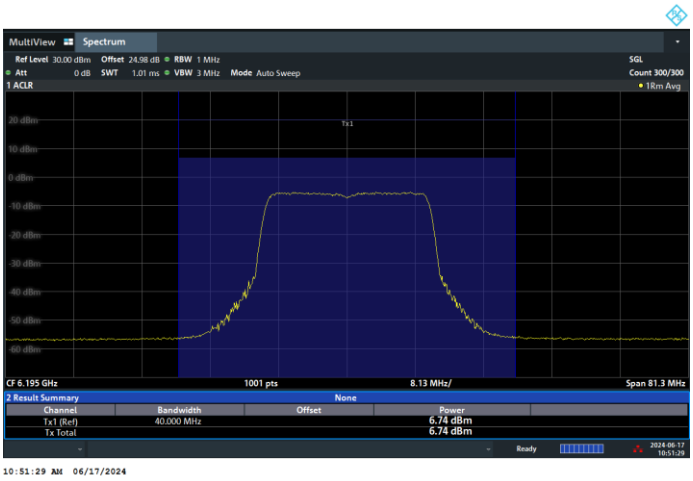
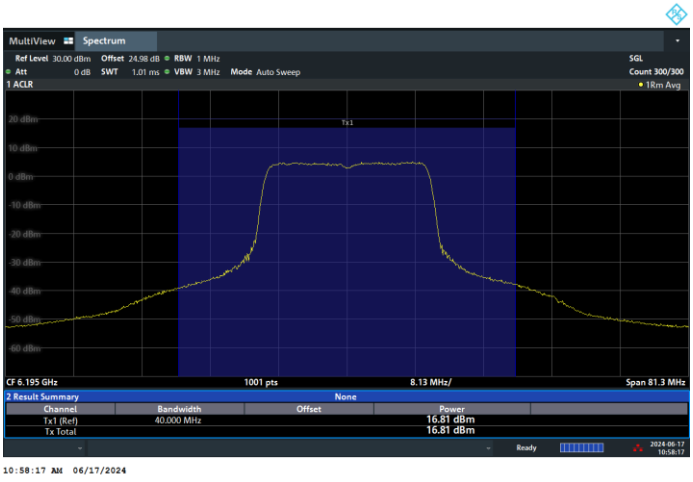
802.11ax 20MHz bandwidth

Test channel 49

	Client conducted Power (dBm)	Client EIRP (dBm)	Limit EIRP (dBm)	Result
Indoor EIRP	6.74	9.81	24	Pass
Standard EIRP	16.81	19.88	30	Pass

Note: Client EIRP = Client conducted power + antenna gain 3.07dBi

3.6.5 Test Result Plot

Measured Indoor power **Client conducted power 6.74dBm**	
Measured Standard power **Client conducted power 16.81dBm**	

3.7 Unwanted Emissions Measurement

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

3.7.1 Limit of Unwanted Emissions

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

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

According 987594 D02 U-NII 6GHz EMC Measurement v02r01 section G:
Unwanted emissions outside of restricted bands are measured with a RMS detector.
In addition, 15.35(b) applies where the peak emissions must be limited to no more than 20 dB above the average limit

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

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

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

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

3.7.2 Measuring Instruments

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

3.7.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

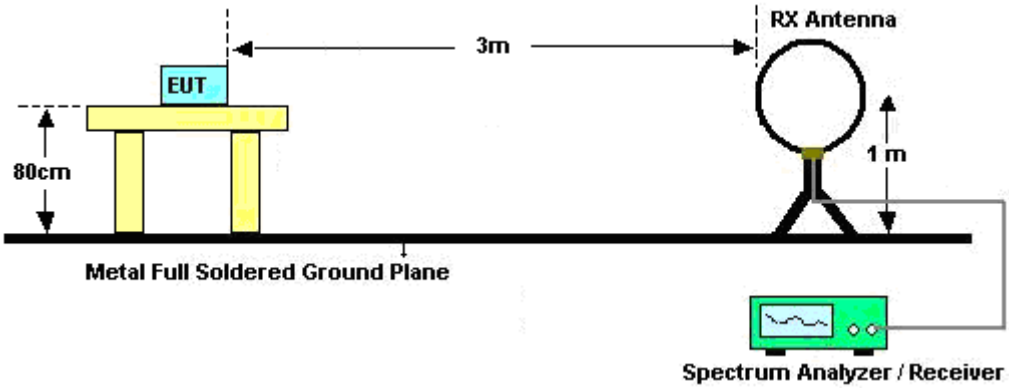
   (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
   - RBW = 120 kHz
   - VBW = 300 kHz
   - Detector = Peak
   - Trace mode = max hold

   (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
   - RBW = 1 MHz
   - VBW ≥ 3 MHz
   - Detector = Peak
   - Sweep time = auto
   - Trace mode = max hold

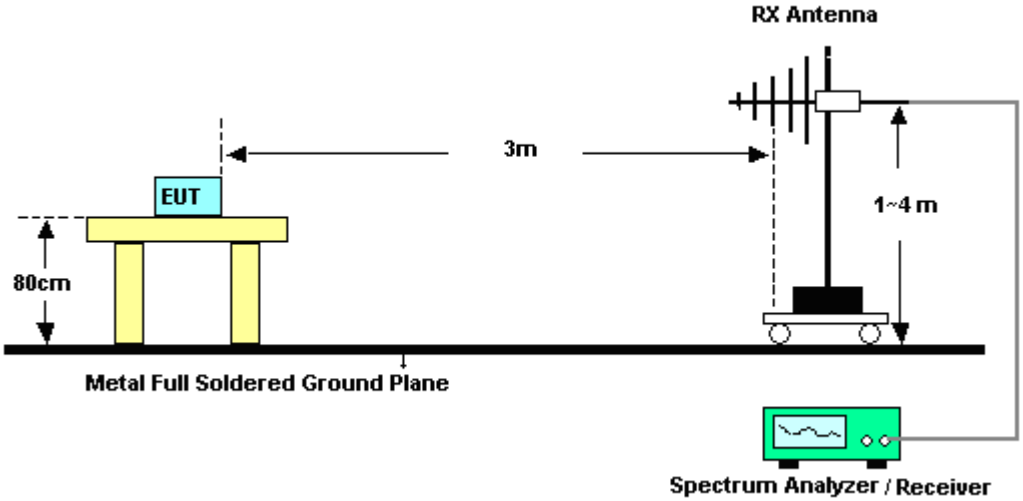
   (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
   - RBW = 1 MHz
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-“.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-“..

3.7.4 Test Setup

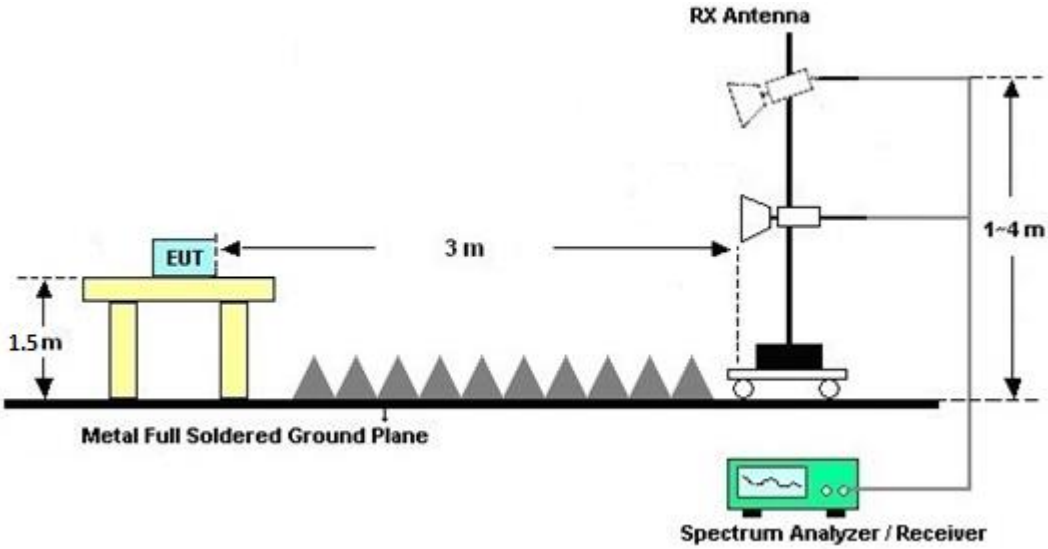
For radiated emissions below 30MHz



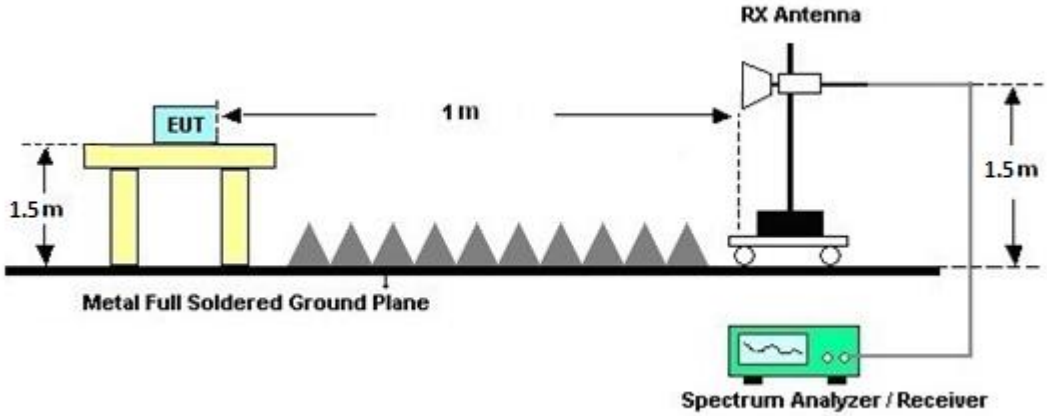
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



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

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

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

3.7.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.7.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.8 AC Conducted Emission Measurement

3.8.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

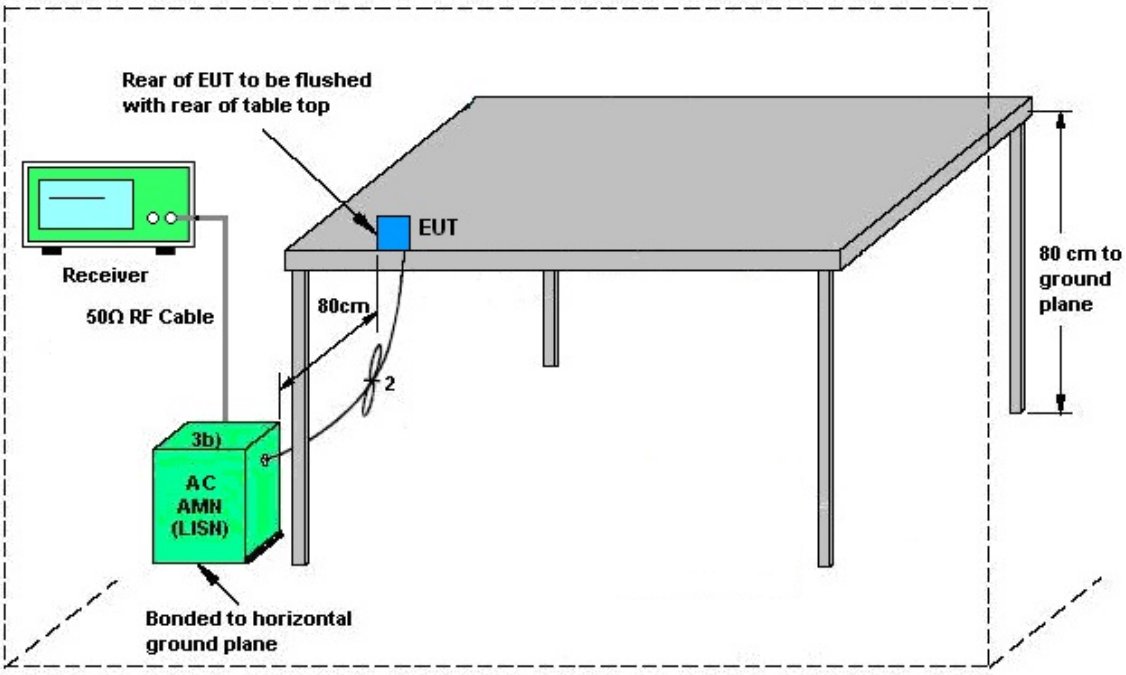
3.8.2 Measuring Instruments

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

3.8.3 Test Procedures

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

3.8.4 Test Setup



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

3.8.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.9 Antenna Requirements

3.9.1 Standard Applicable

The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.9.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 02, 2024	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9kHz~3.6GHz	Dec. 06, 2023	Feb. 02, 2024	Dec. 05, 2024	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Oct. 26, 2023	Feb. 02, 2024	Oct. 25, 2024	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 22, 2023	Feb. 02, 2024	Nov. 21, 2024	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32	N/A	N/A	N/A	Feb. 02, 2024	N/A	Conduction (CO05-HY)
ISN Cable	MVE	RG-400	200260	N/A	Dec. 28, 2023	Feb. 02, 2024	Dec. 27, 2024	Conduction (CO05-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	00691	9kHz-200MHz	Jul. 28, 2023	Feb. 02, 2024	Jul. 27, 2024	Conduction (CO05-HY)
LISN Cable	MVE	RG-400	260260	N/A	Dec. 28, 2023	Feb. 02, 2024	Dec. 27, 2024	Conduction (CO05-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 06, 2023	Feb. 11, 2024~ Apr. 15, 2024	Oct. 05, 2024	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Sep. 12, 2023	Feb. 11, 2024~ Apr. 15, 2024	Sep. 11, 2024	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	Jun. 27, 2023	Feb. 11, 2024~ Apr. 15, 2024	Jun. 26, 2024	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Feb. 11, 2024~ Apr. 15, 2024	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Feb. 11, 2024~ Apr. 15, 2024	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Feb. 11, 2024~ Apr. 15, 2024	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 12, 2023	Feb. 11, 2024~ Apr. 15, 2024	Dec. 11, 2024	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00802 N1D01N-06	55606 & 08	30MHz~1GHz	Oct. 20, 2023	Feb. 11, 2024~ Apr. 15, 2024	Oct. 19, 2024	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Oct. 30, 2023	Feb. 11, 2024~ Apr. 15, 2024	Oct. 29, 2024	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 10, 2023	Feb. 11, 2024~ Apr. 15, 2024	Jul. 09, 2024	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Jan. 01, 2024	Feb. 11, 2024~ Apr. 15, 2024	Dec. 31, 2024	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 13, 2023	Feb. 11, 2024~ Apr. 15, 2024	Nov. 12, 2024	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,804 015/2,804027 /2	N/A	Jan. 17, 2024	Feb. 11, 2024~ Apr. 15, 2024	Jan. 16, 2025	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303B	TP200728	N/A	Mar. 28, 2023	Feb. 11, 2024~ Mar. 26, 2024	Mar. 27, 2024	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 27, 2024	Mar. 27, 2024~ Apr. 15, 2024	Mar. 26, 2025	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Feb. 11, 2024~ Apr. 15, 2024	N/A	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP201996	N/A	Nov. 07, 2023	Jan. 28, 2024~ Mar. 23, 2024	Nov. 06, 2024	Conducted (TH05-HY)
Power Sensor	DARE	RPR3008W	RPR8W-2301 0013 (NO:100)	10MHz~8GHz	Jul. 26, 2023	Jan. 28, 2024~ Mar. 23, 2024	Jul. 25, 2024	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV40	101564	10Hz ~ 40GHz	Sep. 12, 2023	Jan. 28, 2024~ Mar. 23, 2024	Sep. 11, 2024	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3013	101549	10Hz~13.6GHz	Jan. 30, 2024	Feb. 29, 2024~ Jun. 17, 2024	Jan. 29, 2025	AFC (DF02-HY)

5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	3.5 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	6.4 dB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.5 dB

Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.6 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.4 dB

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sylvia Li	Temperature:	21~25	°C
Test Date:	2024/1/28~2024/03/23	Relative Humidity:	51~54	%

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TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	001	5955	16.33	16.33	19.59	19.21	320.00	Pass
11a	6Mbps	2	049	6195	16.33	16.33	19.49	19.39	320.00	Pass
11a	6Mbps	2	093	6415	16.33	16.33	19.63	19.53	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	001	5955	0.66	0.66	16.80	16.90	19.86	3.07		22.93	30.00	Pass
11a	6Mbps	2	049	6195	0.66	0.66	16.30	16.90	19.62	3.07		22.69	30.00	Pass
11a	6Mbps	2	093	6415	0.66	0.66	15.60	16.50	19.08	3.07		22.15	30.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	001	5955			9.53	5.30		14.83	17.00	Pass
11a	6Mbps	2	049	6195			8.98	5.30		14.28	17.00	Pass
11a	6Mbps	2	093	6415			8.81	5.30		14.11	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	117	6535	16.33	16.33	19.45	19.36	320.00	Pass
11a	6Mbps	2	149	6695	16.33	16.28	20.05	19.16	320.00	Pass

U-NII-7 straddle channel MIMO										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7		
11a	6Mbps	2	185	6875	16.33	16.33	19.48	19.38	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	117	6535	0.66	0.66	18.80	18.80	21.81	2.14		23.95	30.00	Pass
11a	6Mbps	2	149	6695	0.66	0.66	18.30	19.00	21.67	2.14		23.81	30.00	Pass

U-NII-7 straddle channel MIMO														
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	185	6875	0.66	0.66	18.70	19.00	21.86	2.14		24.00	30.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	117	6535	0.66	0.66			11.53	4.87		16.40	17.00	Pass
11a	6Mbps	2	149	6695	0.66	0.66			11.22	4.87		16.09	17.00	Pass

FCC U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
					Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
11a	6Mbps	2	185	6875	0.66	0.66			11.22	4.87		16.09	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-5 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	001	5955	Full	18.83	18.83	20.89	21.18	320.00	Pass
HE20	MCS0	2	049	6195	Full	18.88	18.83	20.86	20.68	320.00	Pass
HE20	MCS0	2	093	6415	Full	18.88	18.83	21.11	21.20	320.00	Pass
HE40	MCS0	2	003	5965	Full	37.66	37.86	41.02	41.17	320.00	Pass
HE40	MCS0	2	051	6205	Full	37.86	37.76	40.99	41.30	320.00	Pass
HE40	MCS0	2	091	6405	Full	37.66	37.76	41.23	40.82	320.00	Pass
HE80	MCS0	2	007	5985	Full	76.84	76.84	81.86	81.31	320.00	Pass
HE80	MCS0	2	055	6225	Full	76.72	76.84	81.47	81.18	320.00	Pass
HE80	MCS0	2	087	6385	Full	76.72	76.72	81.70	81.25	320.00	Pass
HE160	MCS0	2	015	6025	Full	155.60	155.84	164.93	164.21	320.00	Pass
HE160	MCS0	2	047	6185	Full	156.08	155.60	164.64	164.74	320.00	Pass
HE160	MCS0	2	079	6345	Full	155.84	155.60	164.45	164.64	320.00	Pass

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TEST RESULTS DATA
EIRP Power Table

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	001	5955	Full	0.66	0.66	16.70	16.90	19.81	3.07		22.88	30.00	Pass
HE20	MCS0	2	001	5955	26/0	0.66	0.66	8.20	9.00	11.63	3.07		14.70	30.00	Pass
HE20	MCS0	2	001	5955	52/37	0.66	0.66	11.60	12.00	14.81	3.07		17.88	30.00	Pass
HE20	MCS0	2	001	5955	106/53	0.66	0.66	14.70	14.90	17.81	3.07		20.88	30.00	Pass
HE20	MCS0	2	049	6195	Full	0.66	0.66	16.20	16.80	19.52	3.07		22.59	30.00	Pass
HE20	MCS0	2	049	6195	26/4	0.66	0.66	9.30	9.70	12.51	3.07		15.58	30.00	Pass
HE20	MCS0	2	049	6195	52/38	0.66	0.66	10.80	11.50	14.17	3.07		17.24	30.00	Pass
HE20	MCS0	2	049	6195	106/53	0.66	0.66	14.10	14.40	17.26	3.07		20.33	30.00	Pass
HE20	MCS0	2	093	6415	Full	0.66	0.66	16.20	16.70	19.47	3.07		22.54	30.00	Pass
HE20	MCS0	2	093	6415	26/8	0.66	0.66	6.70	7.00	9.86	3.07		12.93	30.00	Pass
HE20	MCS0	2	093	6415	52/40	0.66	0.66	10.80	11.30	14.07	3.07		17.14	30.00	Pass
HE20	MCS0	2	093	6415	106/54	0.66	0.66	14.00	14.30	17.16	3.07		20.23	30.00	Pass
HE40	MCS0	2	003	5965	Full	0.67	0.65	16.90	17.00	19.96	3.07		23.03	30.00	Pass
HE40	MCS0	2	003	5965	242/61	0.67	0.65	15.90	16.00	18.96	3.07		22.03	30.00	Pass
HE40	MCS0	2	051	6205	Full	0.67	0.65	16.50	17.00	19.77	3.07		22.84	30.00	Pass
HE40	MCS0	2	051	6205	242/61	0.67	0.65	15.50	15.60	18.56	3.07		21.63	30.00	Pass
HE40	MCS0	2	091	6405	Full	0.67	0.65	16.60	16.80	19.71	3.07		22.78	30.00	Pass
HE40	MCS0	2	091	6405	242/62	0.67	0.65	15.10	15.30	18.21	3.07		21.28	30.00	Pass
HE80	MCS0	2	007	5985	Full	0.65	0.65	16.50	17.00	19.77	3.07		22.84	30.00	Pass
HE80	MCS0	2	007	5985	484/65	0.65	0.65	15.90	15.80	18.86	3.07		21.93	30.00	Pass
HE80	MCS0	2	055	6225	Full	0.65	0.65	16.40	16.80	19.61	3.07		22.68	30.00	Pass
HE80	MCS0	2	055	6225	484/65	0.65	0.65	15.70	15.50	18.61	3.07		21.68	30.00	Pass
HE80	MCS0	2	087	6385	Full	0.65	0.65	16.50	16.70	19.61	3.07		22.68	30.00	Pass
HE80	MCS0	2	087	6385	484/66	0.65	0.65	15.60	15.90	18.76	3.07		21.83	30.00	Pass
HE160	MCS0	2	015	6025	Full	0.67	0.68	15.60	16.20	18.92	3.07		21.99	30.00	Pass
HE160	MCS0	2	015	6025	996/67	0.67	0.68	14.60	15.00	17.81	3.07		20.88	30.00	Pass
HE160	MCS0	2	047	6185	Full	0.67	0.68	15.90	16.40	19.17	3.07		22.24	30.00	Pass
HE160	MCS0	2	047	6185	996/67	0.67	0.68	15.40	15.60	18.51	3.07		21.58	30.00	Pass
HE160	MCS0	2	079	6345	Full	0.67	0.68	15.80	16.10	18.96	3.07		22.03	30.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.67	0.68	15.03	15.20	18.13	3.07		21.20	30.00	Pass

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TEST RESULTS DATA
EIRP Power Spectral Density

U-NII-5 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	001	5955	Full	0.66	0.66			8.95	5.30		14.24	17.00	Pass
HE20	MCS0	2	001	5955	26/0	0.66	0.66			8.75	5.30		14.05	17.00	Pass
HE20	MCS0	2	001	5955	52/37	0.66	0.66			8.88	5.30		14.18	17.00	Pass
HE20	MCS0	2	001	5955	106/53	0.66	0.66			8.70	5.30		14.00	17.00	Pass
HE20	MCS0	2	049	6195	Full	0.66	0.66			8.32	5.30		13.62	17.00	Pass
HE20	MCS0	2	049	6195	26/4	0.66	0.66			8.30	5.30		13.59	17.00	Pass
HE20	MCS0	2	049	6195	52/38	0.66	0.66			7.92	5.30		13.22	17.00	Pass
HE20	MCS0	2	049	6195	106/53	0.66	0.66			7.93	5.30		13.23	17.00	Pass
HE20	MCS0	2	093	6415	Full	0.66	0.66			8.62	5.30		13.92	17.00	Pass
HE20	MCS0	2	093	6415	26/8	0.66	0.66			7.24	5.30		12.53	17.00	Pass
HE20	MCS0	2	093	6415	52/40	0.66	0.66			8.49	5.30		13.79	17.00	Pass
HE20	MCS0	2	093	6415	106/54	0.66	0.66			8.26	5.30		13.56	17.00	Pass
HE40	MCS0	2	003	5965	Full	0.67	0.65			6.21	5.30		11.51	17.00	Pass
HE40	MCS0	2	003	5965	242/61	0.67	0.65			6.15	5.30		11.45	17.00	Pass
HE40	MCS0	2	051	6205	Full	0.67	0.65			5.97	5.30		11.27	17.00	Pass
HE40	MCS0	2	051	6205	242/61	0.67	0.65			5.88	5.30		11.18	17.00	Pass
HE40	MCS0	2	091	6405	Full	0.67	0.65			6.00	5.30		11.29	17.00	Pass
HE40	MCS0	2	091	6405	242/62	0.67	0.65			5.59	5.30		10.89	17.00	Pass
HE80	MCS0	2	007	5985	Full	0.65	0.65			3.59	5.30		8.88	17.00	Pass
HE80	MCS0	2	007	5985	484/65	0.65	0.65			3.26	5.30		8.56	17.00	Pass
HE80	MCS0	2	055	6225	Full	0.65	0.65			3.48	5.30		8.78	17.00	Pass
HE80	MCS0	2	055	6225	484/65	0.65	0.65			3.03	5.30		8.33	17.00	Pass
HE80	MCS0	2	087	6385	Full	0.65	0.65			3.74	5.30		9.03	17.00	Pass
HE80	MCS0	2	087	6385	484/66	0.65	0.65			3.43	5.30		8.73	17.00	Pass
HE160	MCS0	2	015	6025	Full	0.67	0.68			0.08	5.30		5.38	17.00	Pass
HE160	MCS0	2	015	6025	996/67	0.67	0.68			-0.41	5.30		4.89	17.00	Pass
HE160	MCS0	2	047	6185	Full	0.67	0.68			0.17	5.30		5.47	17.00	Pass
HE160	MCS0	2	047	6185	996/67	0.67	0.68			0.09	5.30		5.39	17.00	Pass
HE160	MCS0	2	079	6345	Full	0.67	0.68			0.29	5.30		5.59	17.00	Pass
HE160	MCS0	2	079	6345	996/S67	0.67	0.68			0.22	5.30		5.52	17.00	Pass

TEST RESULTS DATA
26dB and 99% OBW

U-NII-7 MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	117	6535	Full	18.83	18.83	20.90	20.71	320.00	Pass
HE20	MCS0	2	149	6695	Full	18.88	18.88	20.90	20.82	320.00	Pass
HE40	MCS0	2	123	6565	Full	37.76	37.76	40.96	41.14	320.00	Pass
HE40	MCS0	2	147	6685	Full	37.86	37.76	41.36	41.10	320.00	Pass
HE80	MCS0	2	135	6625	Full	76.96	76.96	81.34	81.86	320.00	Pass
HE80	MCS0	2	151	6705	Full	76.72	76.72	81.60	81.31	320.00	Pass
HE160	MCS0	2	143	6665	Full	155.84	155.60	165.55	164.30	320.00	Pass

U-NII-7 straddle channel MIMO											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Bandwidth (MHz)		26 dB Bandwidth (MHz)		Emission Bandwidth Limit (MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7		
HE20	MCS0	2	185	6875	Full	18.83	18.88	21.00	21.00	320.00	Pass
HE40	MCS0	2	187	6885	Full	37.76	37.76	41.28	41.06	320.00	Pass
HE80	MCS0	2	183	6865	Full	76.72	76.84	81.54	81.50	320.00	Pass
HE160	MCS0	2	175	6825	Full	156.08	155.60	163.73	163.73	320.00	Pass

TEST RESULTS DATA
EIRP Power Table

U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	117	6535	Full	0.66	0.66	18.50	18.40	21.46	2.14		23.60	30.00	Pass
HE20	MCS0	2	117	6535	26/0	0.66	0.66	9.80	10.10	12.96	2.14		15.10	30.00	Pass
HE20	MCS0	2	117	6535	52/37	0.66	0.66	12.90	13.00	15.96	2.14		18.10	30.00	Pass
HE20	MCS0	2	117	6535	106/53	0.66	0.66	16.00	15.90	18.96	2.14		21.10	30.00	Pass
HE20	MCS0	2	149	6695	Full	0.66	0.66	18.00	18.50	21.27	2.14		23.41	30.00	Pass
HE20	MCS0	2	149	6695	26/4	0.66	0.66	11.10	11.20	14.16	2.14		16.30	30.00	Pass
HE20	MCS0	2	149	6695	52/38	0.66	0.66	12.60	13.10	15.87	2.14		18.01	30.00	Pass
HE20	MCS0	2	149	6695	106/53	0.66	0.66	16.10	16.40	19.26	2.14		21.40	30.00	Pass
HE40	MCS0	2	123	6565	Full	0.67	0.65	17.50	17.20	20.36	2.14		22.50	30.00	Pass
HE40	MCS0	2	123	6565	242/61	0.67	0.65	15.80	15.80	18.81	2.14		20.95	30.00	Pass
HE40	MCS0	2	147	6685	Full	0.67	0.65	17.10	17.50	20.31	2.14		22.45	30.00	Pass
HE40	MCS0	2	147	6685	242/61	0.67	0.65	15.70	16.00	18.86	2.14		21.00	30.00	Pass
HE80	MCS0	2	135	6625	Full	0.65	0.65	15.90	16.10	19.01	2.14		21.15	30.00	Pass
HE80	MCS0	2	135	6625	484/65	0.65	0.65	15.10	15.10	18.11	2.14		20.25	30.00	Pass
HE80	MCS0	2	151	6705	Full	0.65	0.65	16.00	16.30	19.16	2.14		21.30	30.00	Pass
HE80	MCS0	2	151	6705	484/65	0.65	0.65	14.70	15.00	17.86	2.14		20.00	30.00	Pass
HE160	MCS0	2	143	6665	Full	0.67	0.68	15.80	16.00	18.91	2.14		21.05	30.00	Pass
HE160	MCS0	2	143	6665	996/67	0.67	0.68	15.10	14.90	18.01	2.14		20.15	30.00	Pass

U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power (dBm)			DG (dBi)		EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	185	6875	Full	0.66	0.66	18.10	18.20	21.16	2.14		23.30	30.00	Pass
HE20	MCS0	2	185	6875	26/8	0.66	0.66	9.40	9.70	12.56	2.14		14.70	30.00	Pass
HE20	MCS0	2	185	6875	52/40	0.66	0.66	12.50	12.50	15.51	2.14		17.65	30.00	Pass
HE20	MCS0	2	185	6875	106/54	0.66	0.66	15.90	16.20	19.06	2.14		21.20	30.00	Pass
HE40	MCS0	2	187	6885	Full	0.67	0.65	17.50	17.40	20.46	2.14		22.60	30.00	Pass
HE40	MCS0	2	187	6885	242/62	0.67	0.65	15.80	16.00	18.91	2.14		21.05	30.00	Pass
HE80	MCS0	2	183	6865	Full	0.65	0.65	16.40	16.40	19.41	2.14		21.55	30.00	Pass
HE80	MCS0	2	183	6865	484/66	0.65	0.65	15.20	15.30	18.26	2.14		20.40	30.00	Pass
HE160	MCS0	2	175	6825	Full	0.67	0.68	15.40	15.90	18.67	2.14		20.81	30.00	Pass
HE160	MCS0	2	175	6825	996/67	0.67	0.68	14.80	14.70	17.76	2.14		19.90	30.00	Pass
HE160	MCS0	2	175	6825	996/S67	0.67	0.68	14.30	14.60	17.46	2.14		19.60	30.00	Pass

Report Number : FR411108P

TEST RESULTS DATA
EIRP Power Spectral Density

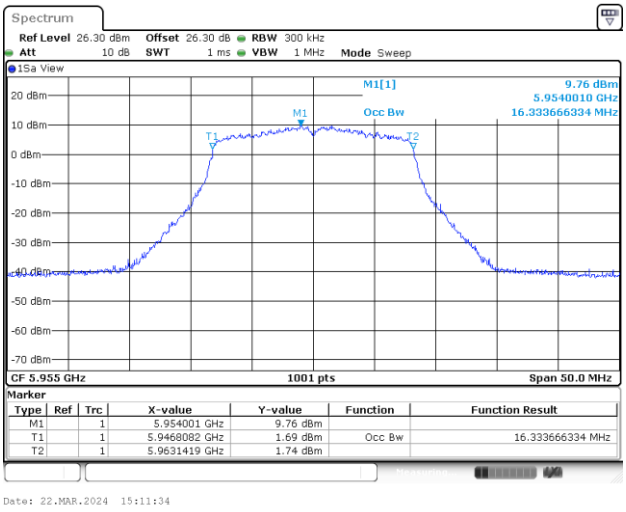
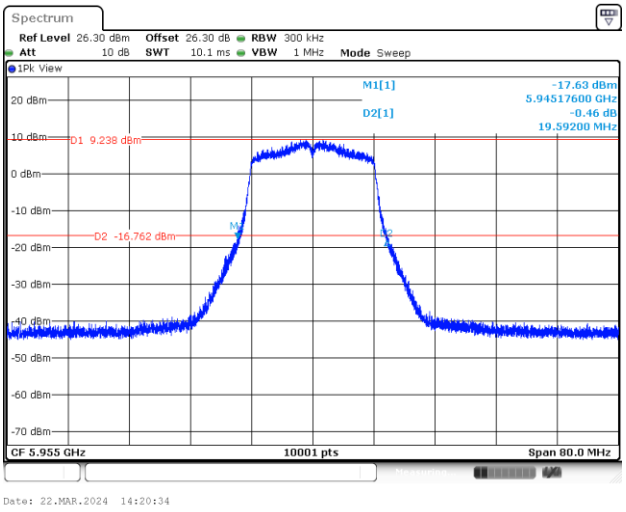
U-NII-7 MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	117	6535	Full	0.66	0.66			10.49	4.87		15.36	17.00	Pass
HE20	MCS0	2	117	6535	26/0	0.66	0.66			10.00	4.87		14.86	17.00	Pass
HE20	MCS0	2	117	6535	52/37	0.66	0.66			10.06	4.87		14.92	17.00	Pass
HE20	MCS0	2	117	6535	106/53	0.66	0.66			10.02	4.87		14.88	17.00	Pass
HE20	MCS0	2	149	6695	Full	0.66	0.66			10.29	4.87		15.15	17.00	Pass
HE20	MCS0	2	149	6695	26/4	0.66	0.66			10.01	4.87		14.88	17.00	Pass
HE20	MCS0	2	149	6695	52/38	0.66	0.66			9.97	4.87		14.84	17.00	Pass
HE20	MCS0	2	149	6695	106/53	0.66	0.66			10.24	4.87		15.11	17.00	Pass
HE40	MCS0	2	123	6565	Full	0.67	0.65			6.57	4.87		11.44	17.00	Pass
HE40	MCS0	2	123	6565	242/61	0.67	0.65			6.21	4.87		11.08	17.00	Pass
HE40	MCS0	2	147	6685	Full	0.67	0.65			6.44	4.87		11.30	17.00	Pass
HE40	MCS0	2	147	6685	242/61	0.67	0.65			6.21	4.87		11.08	17.00	Pass
HE80	MCS0	2	135	6625	Full	0.65	0.65			3.34	4.87		8.20	17.00	Pass
HE80	MCS0	2	135	6625	484/65	0.65	0.65			3.11	4.87		7.97	17.00	Pass
HE80	MCS0	2	151	6705	Full	0.65	0.65			3.02	4.87		7.88	17.00	Pass
HE80	MCS0	2	151	6705	484/65	0.65	0.65			2.66	4.87		7.53	17.00	Pass
HE160	MCS0	2	143	6665	Full	0.67	0.68			-0.04	4.87		4.83	17.00	Pass
HE160	MCS0	2	143	6665	996/67	0.67	0.68			-0.36	4.87		4.50	17.00	Pass

U-NII-7 straddle channel MIMO															
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)		Conducted Power Density (dBm/MHz)			DG (dBi)		EIRP Power Density (dBm/MHz)	EIRP Power Density Limit (dBm/MHz)	Pass /Fail
						Ant 6	Ant 7	Ant 6	Ant 7	SUM	Ant 6	Ant 7	SUM		
HE20	MCS0	2	185	6875	Full	0.66	0.66			9.76	4.87		14.63	17.00	Pass
HE20	MCS0	2	185	6875	26/8	0.66	0.66			9.42	4.87		14.28	17.00	Pass
HE20	MCS0	2	185	6875	52/40	0.66	0.66			9.30	4.87		14.17	17.00	Pass
HE20	MCS0	2	185	6875	106/54	0.66	0.66			9.72	4.87		14.59	17.00	Pass
HE40	MCS0	2	187	6885	Full	0.67	0.65			6.29	4.87		11.15	17.00	Pass
HE40	MCS0	2	187	6885	242/62	0.67	0.65			6.26	4.87		11.12	17.00	Pass
HE80	MCS0	2	183	6865	Full	0.65	0.65			2.94	4.87		7.81	17.00	Pass
HE80	MCS0	2	183	6865	484/66	0.65	0.65			2.54	4.87		7.40	17.00	Pass
HE160	MCS0	2	175	6825	Full	0.67	0.68			-0.54	4.87		4.32	17.00	Pass
HE160	MCS0	2	175	6825	996/67	0.67	0.68			-0.61	4.87		4.26	17.00	Pass
HE160	MCS0	2	175	6825	996/S67	0.67	0.68			-0.88	4.87		3.99	17.00	Pass

Test Result of 26dB & 99% Occupied Bandwidth

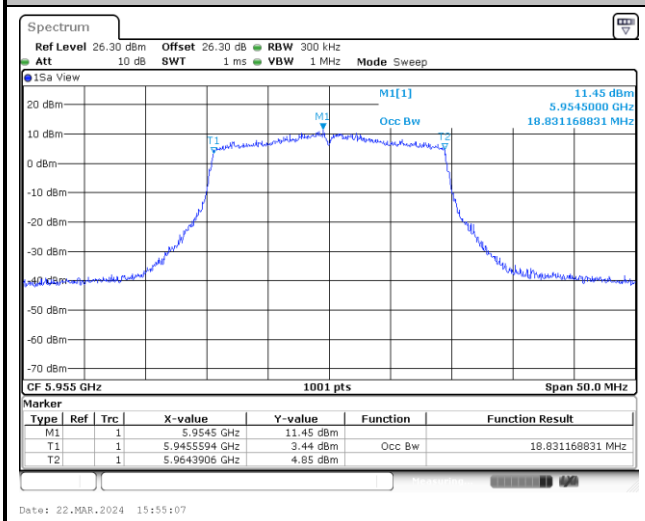
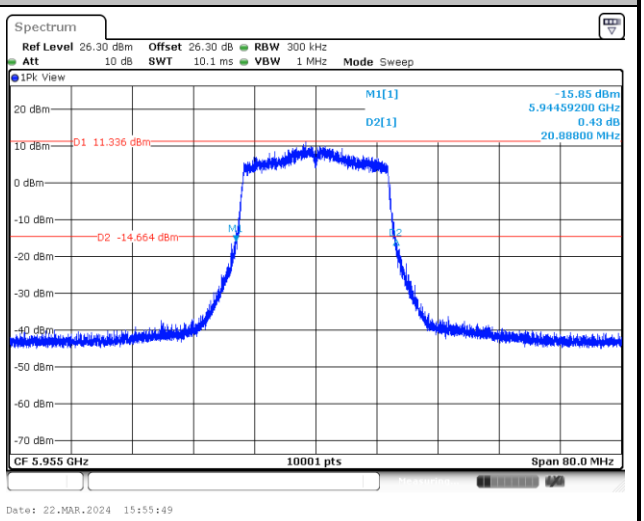
MIMO <Ant. 6+7>

<802.11a>

99% Occupied Bandwidth	26dB Bandwidth
	

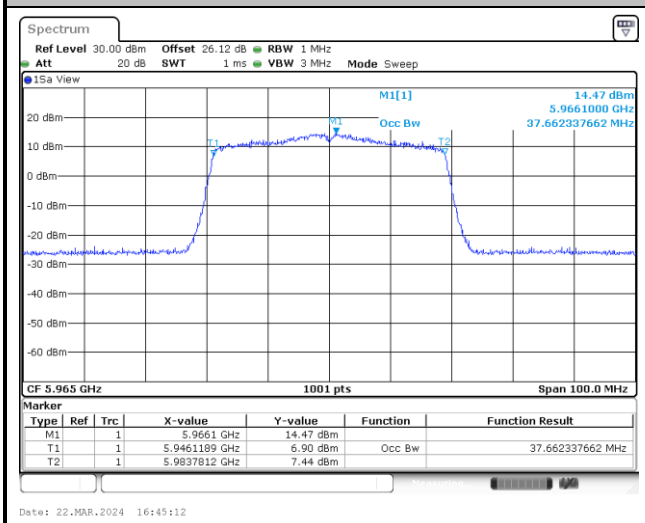
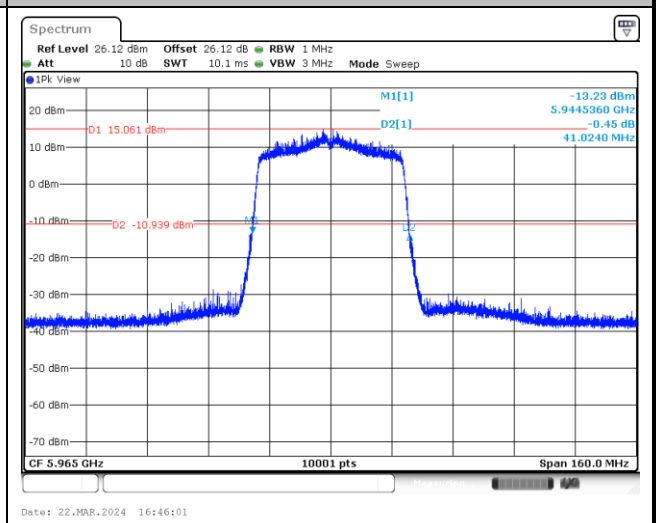
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE20>

99% Occupied Bandwidth	26dB Bandwidth
	

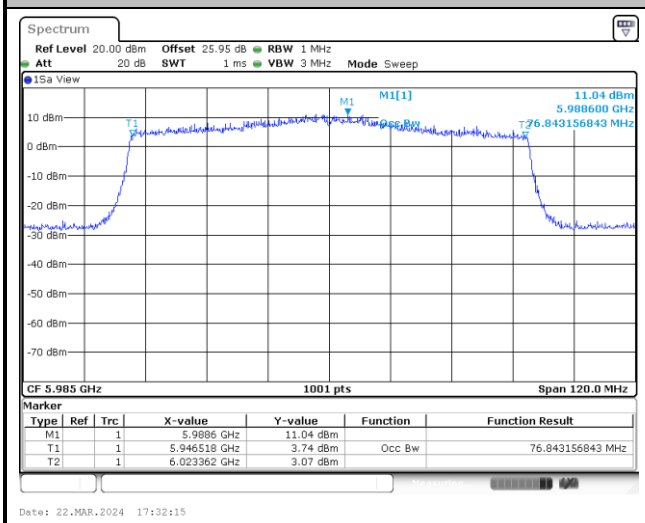
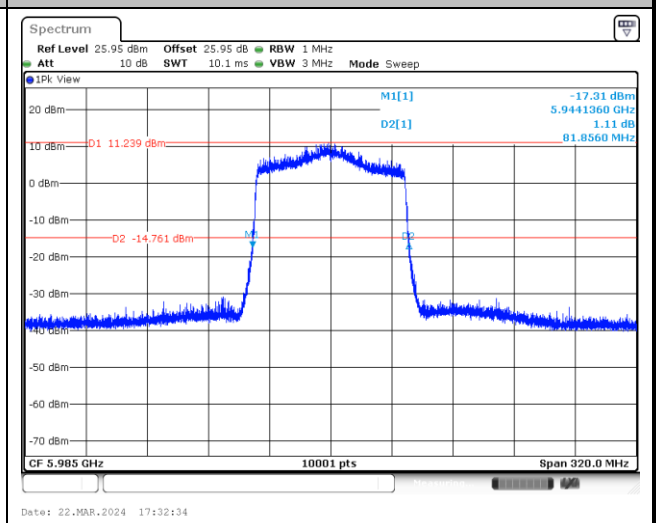
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE40>

99% Occupied Bandwidth	26dB Bandwidth
	

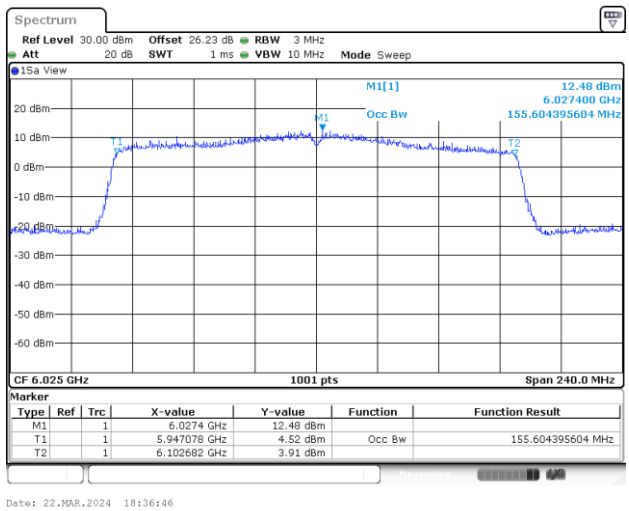
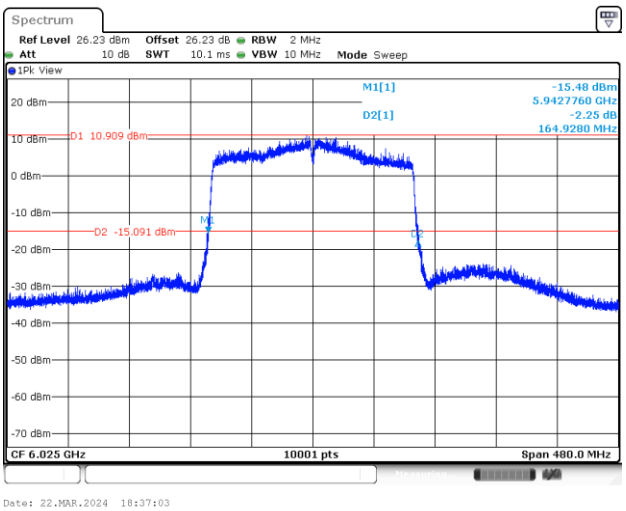
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

<802.11ax HE80>

99% Occupied Bandwidth	26dB Bandwidth
	

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

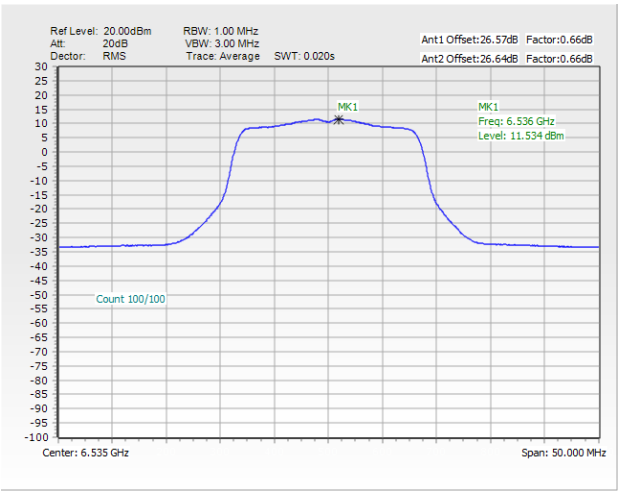
<802.11ax HE160>

99% Occupied Bandwidth	26dB Bandwidth
	

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

Test Result of Power Spectral Density

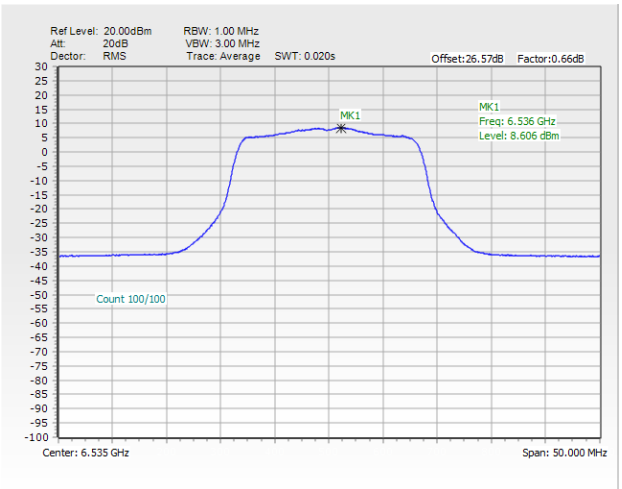
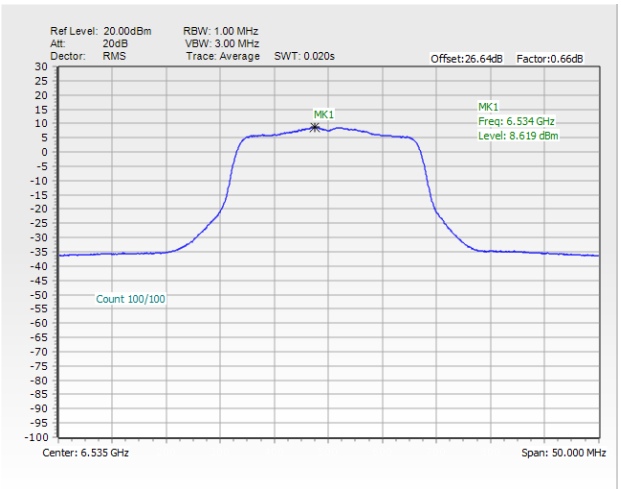
<802.11a>

Maximum Power Density Plot (dBm/MHz)


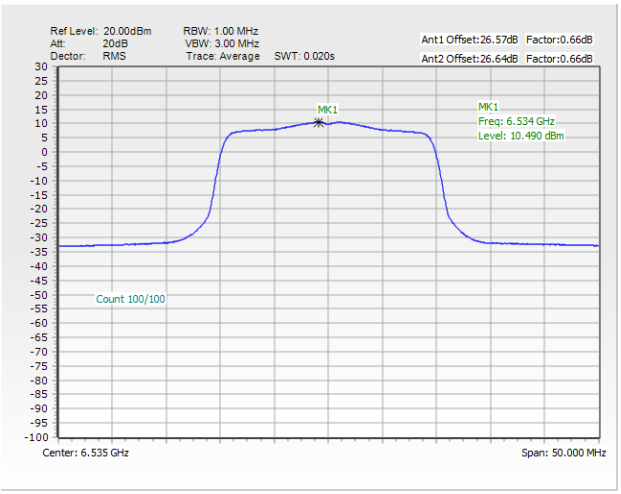
Note:

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.

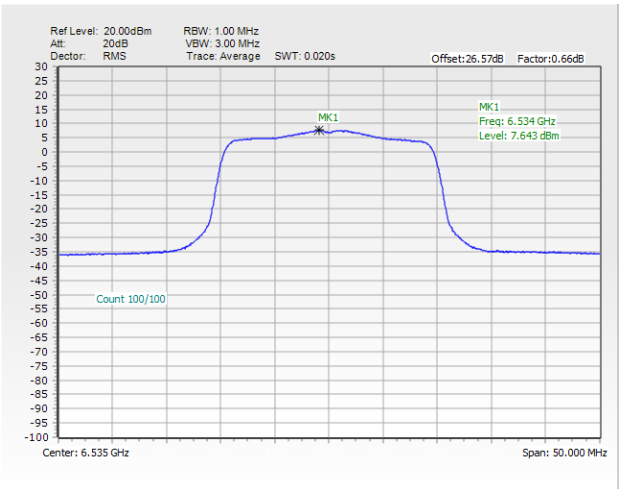
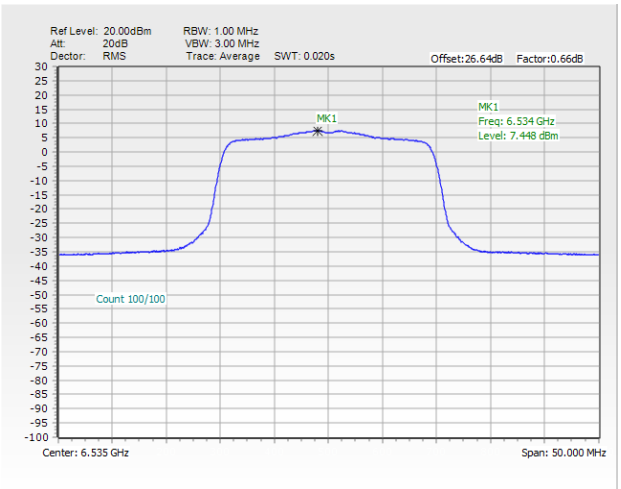
Power Density Plot Trace 1 (Ant 6)	Power Density Plot Trace 2 (Ant 7)
	

<802.11ax HE20>

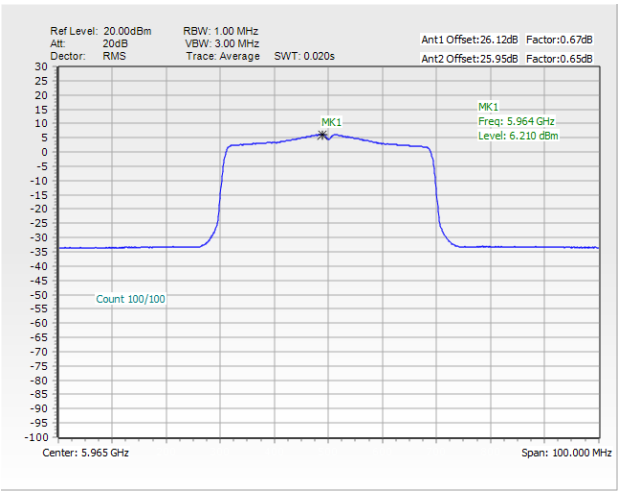
Maximum Power Density Plot (dBm/MHz)


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.

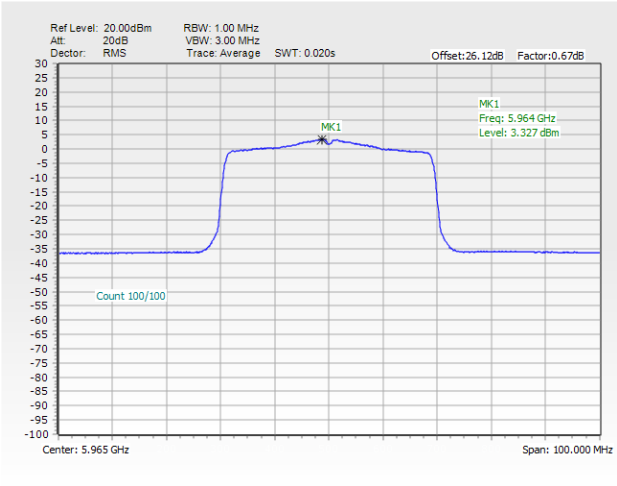
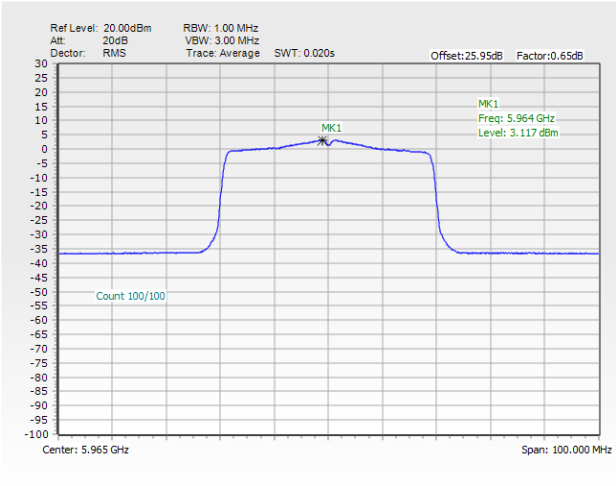
Power Density Plot Trace 1 (Ant 6)	Power Density Plot Trace 2 (Ant 7)
	

<802.11ax HE40>

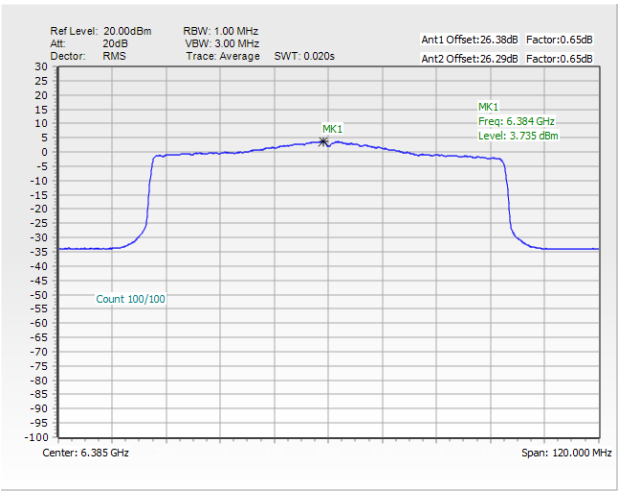
Maximum Power Density Plot (dBm/MHz)


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.

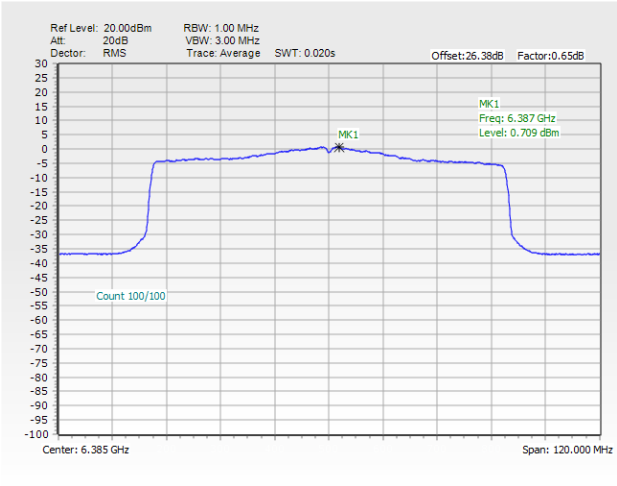
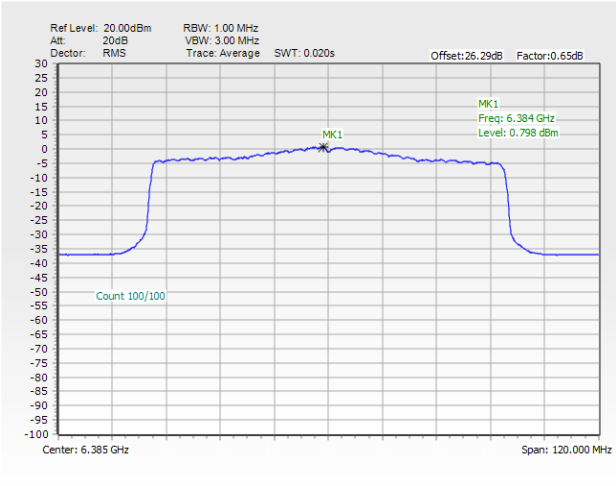
Power Density Plot Trace 1 (Ant 6)	Power Density Plot Trace 2 (Ant 7)
	

<802.11ax HE80>

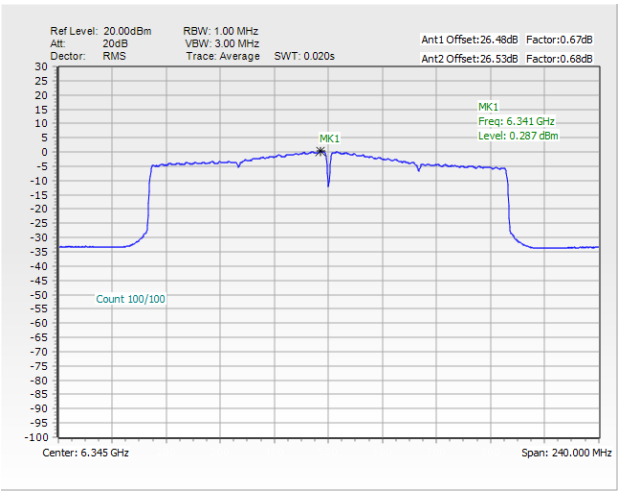
Maximum Power Density Plot (dBm/MHz)


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.

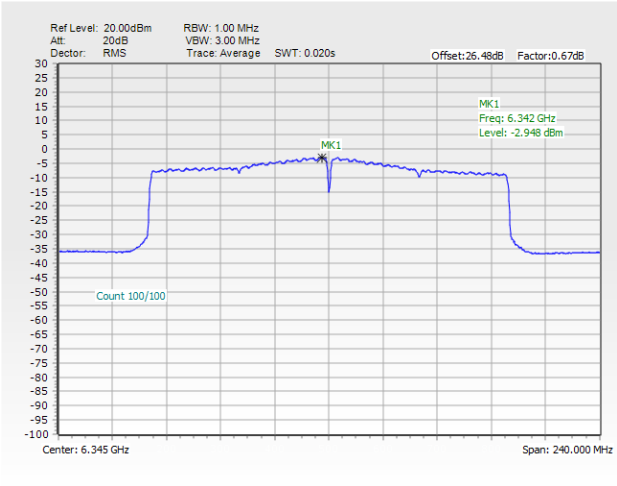
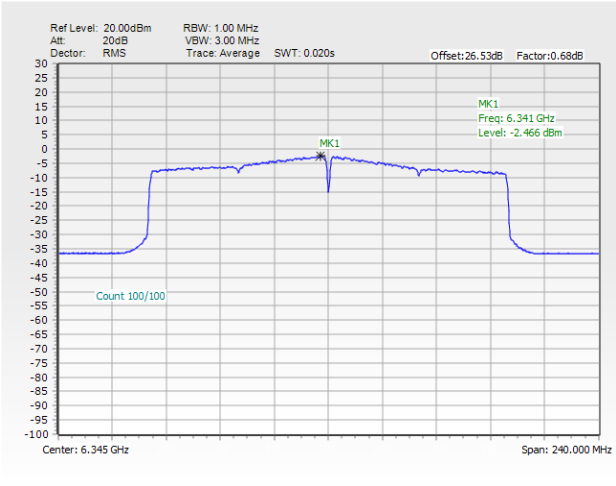
Power Density Plot Trace 1 (Ant 6)	Power Density Plot Trace 2 (Ant 7)
	

<802.11ax HE160>

Maximum Power Density Plot (dBm/MHz)


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.

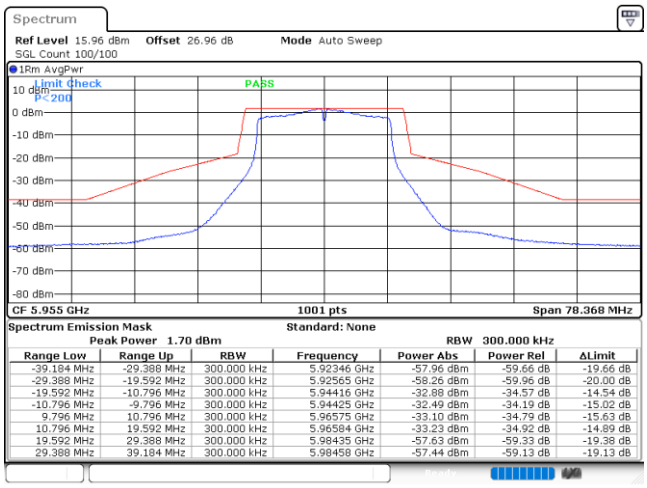
Power Density Plot Trace 1 (Ant 6)	Power Density Plot Trace 2 (Ant 7)
	

In-Band Emissions (Channel Mask)

MIMO <Ant. 6+7(6)>

EUT Mode	802.11a

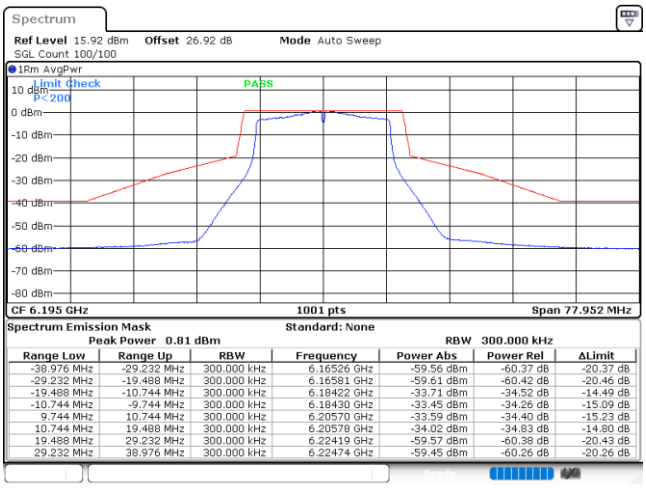
Plot on Channel 5955 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.184 MHz	-29.388 MHz	300.000 kHz	5.92346 GHz	-57.96 dBm	-59.66 dB	-19.66 dB
-29.388 MHz	-19.592 MHz	300.000 kHz	5.92565 GHz	-58.26 dBm	-59.96 dB	-20.00 dB
-19.592 MHz	-10.796 MHz	300.000 kHz	5.94416 GHz	-32.88 dBm	-34.57 dB	-14.54 dB
-10.796 MHz	-9.796 MHz	300.000 kHz	5.94425 GHz	-32.49 dBm	-34.19 dB	-15.02 dB
9.796 MHz	10.796 MHz	300.000 kHz	5.96575 GHz	-33.10 dBm	-34.79 dB	-15.63 dB
10.796 MHz	19.592 MHz	300.000 kHz	5.96584 GHz	-33.23 dBm	-34.92 dB	-14.89 dB
19.592 MHz	29.388 MHz	300.000 kHz	5.98435 GHz	-57.63 dBm	-59.33 dB	-19.38 dB
29.388 MHz	39.184 MHz	300.000 kHz	5.98458 GHz	-57.44 dBm	-59.13 dB	-19.13 dB

Date: 22.MAR.2024 14:21:10

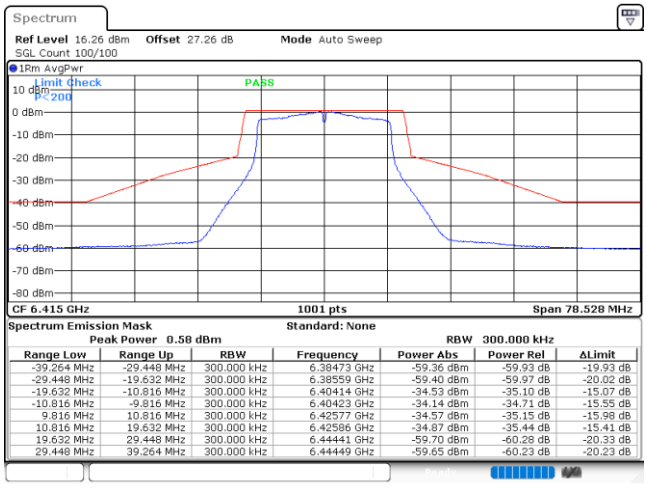
Plot on Channel 6195 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.976 MHz	-29.232 MHz	300.000 kHz	6.16526 GHz	-59.56 dBm	-60.37 dB	-20.37 dB
-29.232 MHz	-19.488 MHz	300.000 kHz	6.16581 GHz	-59.61 dBm	-60.42 dB	-20.46 dB
-19.488 MHz	-10.744 MHz	300.000 kHz	6.18422 GHz	-33.71 dBm	-34.52 dB	-14.49 dB
-10.744 MHz	-9.744 MHz	300.000 kHz	6.18430 GHz	-33.45 dBm	-34.26 dB	-15.09 dB
9.744 MHz	10.744 MHz	300.000 kHz	6.20570 GHz	-33.59 dBm	-34.40 dB	-15.23 dB
10.744 MHz	19.488 MHz	300.000 kHz	6.20578 GHz	-34.02 dBm	-34.83 dB	-14.80 dB
19.488 MHz	29.232 MHz	300.000 kHz	6.22419 GHz	-59.57 dBm	-60.38 dB	-20.43 dB
29.232 MHz	38.976 MHz	300.000 kHz	6.22474 GHz	-59.45 dBm	-60.26 dB	-20.26 dB

Date: 22.MAR.2024 14:28:34

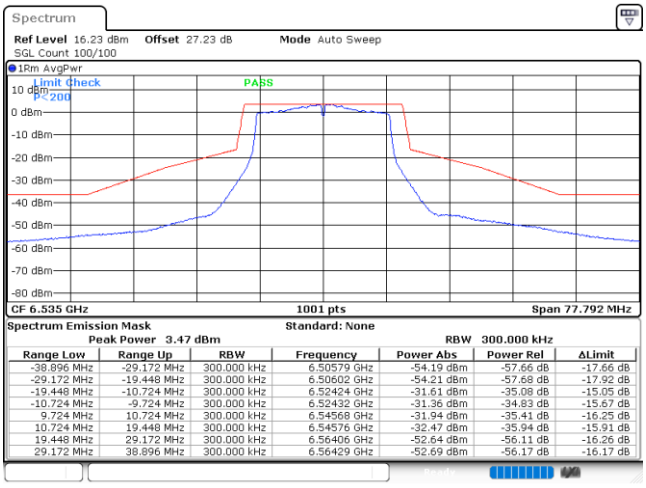
Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.264 MHz	-29.448 MHz	300.000 kHz	6.38473 GHz	-59.36 dBm	-59.93 dB	-19.93 dB
-29.448 MHz	-19.632 MHz	300.000 kHz	6.38559 GHz	-59.40 dBm	-59.97 dB	-20.02 dB
-19.632 MHz	-10.816 MHz	300.000 kHz	6.40414 GHz	-34.53 dBm	-35.10 dB	-15.07 dB
-10.816 MHz	-9.816 MHz	300.000 kHz	6.40423 GHz	-34.14 dBm	-34.71 dB	-15.55 dB
9.816 MHz	10.816 MHz	300.000 kHz	6.42577 GHz	-34.57 dBm	-35.15 dB	-15.98 dB
10.816 MHz	19.632 MHz	300.000 kHz	6.42586 GHz	-34.87 dBm	-35.44 dB	-15.41 dB
19.632 MHz	29.448 MHz	300.000 kHz	6.44441 GHz	-59.70 dBm	-60.28 dB	-20.33 dB
29.448 MHz	39.264 MHz	300.000 kHz	6.44449 GHz	-59.65 dBm	-60.23 dB	-20.23 dB

Date: 22.MAR.2024 14:36:22

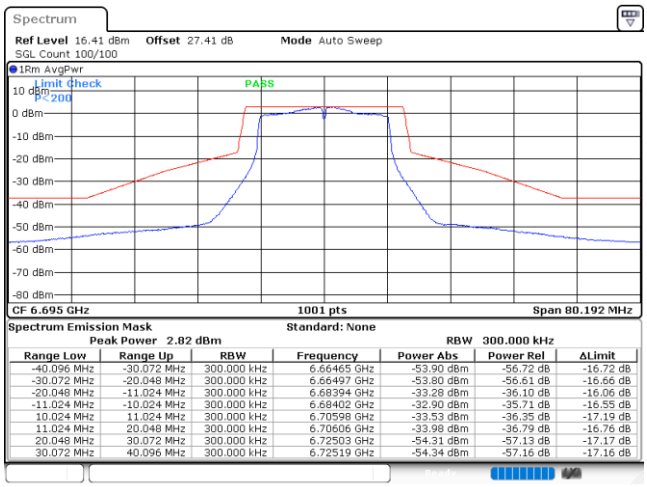
Plot on Channel 6535 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.896 MHz	-29.172 MHz	300.000 kHz	6.50579 GHz	-54.19 dBm	-57.66 dB	-17.66 dB
-29.172 MHz	-19.448 MHz	300.000 kHz	6.50602 GHz	-54.21 dBm	-57.68 dB	-17.92 dB
-19.448 MHz	-10.724 MHz	300.000 kHz	6.52424 GHz	-31.61 dBm	-35.08 dB	-15.05 dB
-10.724 MHz	-9.724 MHz	300.000 kHz	6.52432 GHz	-31.36 dBm	-34.83 dB	-15.67 dB
9.724 MHz	10.724 MHz	300.000 kHz	6.54568 GHz	-31.94 dBm	-35.41 dB	-16.25 dB
10.724 MHz	19.448 MHz	300.000 kHz	6.54576 GHz	-32.47 dBm	-35.94 dB	-15.91 dB
19.448 MHz	29.172 MHz	300.000 kHz	6.56406 GHz	-52.64 dBm	-56.11 dB	-16.26 dB
29.172 MHz	38.896 MHz	300.000 kHz	6.56429 GHz	-52.69 dBm	-56.17 dB	-16.17 dB

Date: 22.MAR.2024 14:47:53

Plot on Channel 6695 MHz



Spectrum Emission Mask Standard: None

Peak Power 2.82 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-40.096 MHz	-30.072 MHz	300.000 kHz	6.66465 GHz	-53.90 dBm	-56.72 dB	-16.72 dB
-30.072 MHz	-20.048 MHz	300.000 kHz	6.66497 GHz	-53.80 dBm	-56.61 dB	-16.66 dB
-20.048 MHz	-11.024 MHz	300.000 kHz	6.68394 GHz	-33.28 dBm	-36.10 dB	-16.06 dB
-11.024 MHz	-10.024 MHz	300.000 kHz	6.68402 GHz	-32.90 dBm	-35.71 dB	-16.55 dB
10.024 MHz	11.024 MHz	300.000 kHz	6.70598 GHz	-33.53 dBm	-36.35 dB	-17.19 dB
11.024 MHz	20.048 MHz	300.000 kHz	6.70606 GHz	-33.98 dBm	-36.79 dB	-16.76 dB
20.048 MHz	30.072 MHz	300.000 kHz	6.72503 GHz	-54.31 dBm	-57.13 dB	-17.17 dB
30.072 MHz	40.096 MHz	300.000 kHz	6.72519 GHz	-54.34 dBm	-57.16 dB	-17.16 dB

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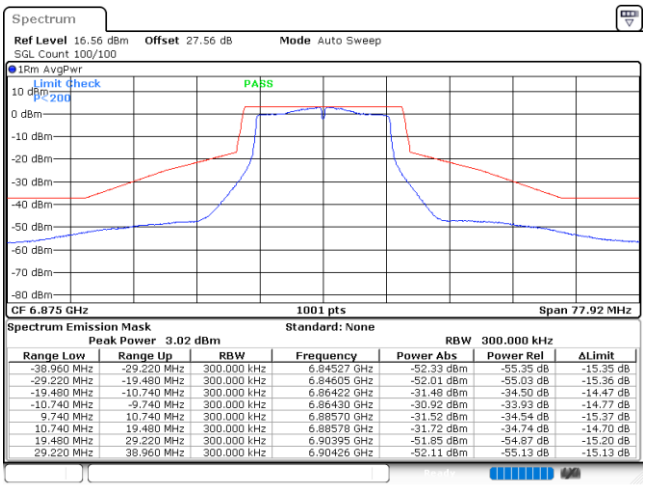
Plot on Channel 6875 MHz



Spectrum Emission Mask Standard: None

Peak Power 3.02 dBm RBW 300.000 kHz

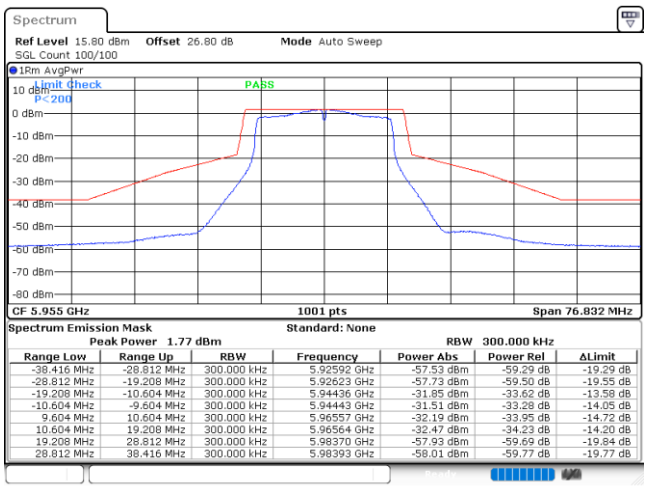
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.960 MHz	-29.220 MHz	300.000 kHz	6.84527 GHz	-52.33 dBm	-55.35 dB	-15.35 dB
-29.220 MHz	-19.480 MHz	300.000 kHz	6.84605 GHz	-52.01 dBm	-55.03 dB	-15.36 dB
-19.480 MHz	-10.740 MHz	300.000 kHz	6.86422 GHz	-31.48 dBm	-34.50 dB	-14.47 dB
-10.740 MHz	-9.740 MHz	300.000 kHz	6.86430 GHz	-30.92 dBm	-33.93 dB	-14.77 dB
9.740 MHz	10.740 MHz	300.000 kHz	6.88570 GHz	-31.52 dBm	-34.54 dB	-15.37 dB
10.740 MHz	19.480 MHz	300.000 kHz	6.88578 GHz	-31.72 dBm	-34.74 dB	-14.70 dB
19.480 MHz	29.220 MHz	300.000 kHz	6.90395 GHz	-51.85 dBm	-54.87 dB	-15.20 dB
29.220 MHz	38.960 MHz	300.000 kHz	6.90426 GHz	-52.11 dBm	-55.13 dB	-15.13 dB

Date: 22.MAR.2024 15:07:29

MIMO <Ant. 6+7(7)>

EUT Mode	802.11a

Plot on Channel 5955 MHz



Spectrum Emission Mask Standard: None
Peak Power 1.77 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.416 MHz	-28.812 MHz	300.000 kHz	5.92592 GHz	-57.53 dBm	-59.29 dB	-19.29 dB
-28.812 MHz	-19.208 MHz	300.000 kHz	5.92623 GHz	-57.73 dBm	-59.50 dB	-19.55 dB
-19.208 MHz	-10.604 MHz	300.000 kHz	5.94436 GHz	-31.85 dBm	-33.62 dB	-13.58 dB
-10.604 MHz	-9.604 MHz	300.000 kHz	5.94443 GHz	-31.51 dBm	-33.28 dB	-14.05 dB
9.604 MHz	10.604 MHz	300.000 kHz	5.96557 GHz	-32.19 dBm	-33.95 dB	-14.72 dB
10.604 MHz	19.208 MHz	300.000 kHz	5.96564 GHz	-32.47 dBm	-34.23 dB	-14.20 dB
19.208 MHz	28.812 MHz	300.000 kHz	5.98370 GHz	-57.93 dBm	-59.69 dB	-19.84 dB
28.812 MHz	38.416 MHz	300.000 kHz	5.98393 GHz	-58.01 dBm	-59.77 dB	-19.77 dB

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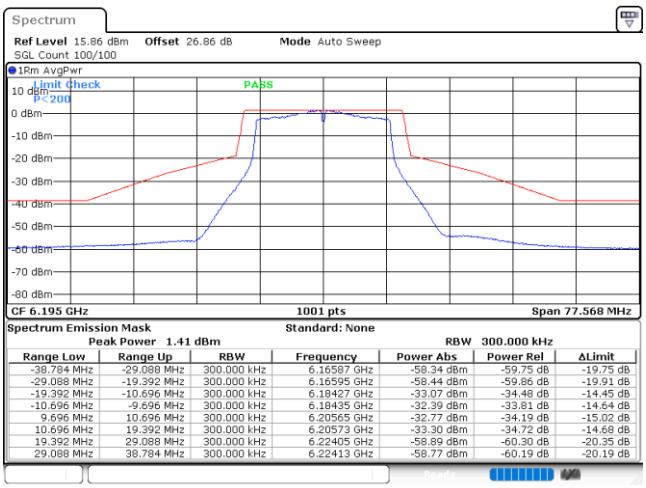
Plot on Channel 6195 MHz



Spectrum Emission Mask Standard: None
Peak Power 1.41 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.784 MHz	-29.088 MHz	300.000 kHz	6.16587 GHz	-58.34 dBm	-59.75 dB	-19.75 dB
-29.088 MHz	-19.392 MHz	300.000 kHz	6.16595 GHz	-58.44 dBm	-59.86 dB	-19.91 dB
-19.392 MHz	-10.696 MHz	300.000 kHz	6.18427 GHz	-33.07 dBm	-34.48 dB	-14.45 dB
-10.696 MHz	-9.696 MHz	300.000 kHz	6.18435 GHz	-32.39 dBm	-33.81 dB	-14.64 dB
9.696 MHz	10.696 MHz	300.000 kHz	6.20565 GHz	-32.77 dBm	-34.19 dB	-15.02 dB
10.696 MHz	19.392 MHz	300.000 kHz	6.20573 GHz	-33.30 dBm	-34.72 dB	-14.68 dB
19.392 MHz	29.088 MHz	300.000 kHz	6.22405 GHz	-58.89 dBm	-60.30 dB	-20.35 dB
29.088 MHz	38.784 MHz	300.000 kHz	6.22413 GHz	-58.77 dBm	-60.19 dB	-20.19 dB

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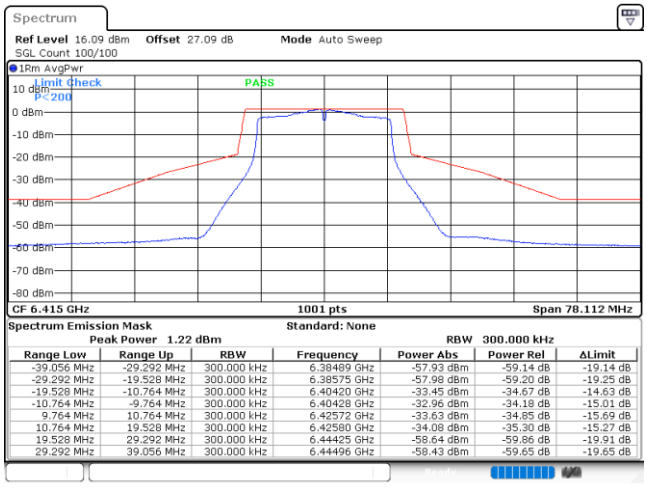
Plot on Channel 6415 MHz



Spectrum Emission Mask Standard: None
Peak Power 1.22 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-39.056 MHz	-29.292 MHz	300.000 kHz	6.38489 GHz	-57.93 dBm	-59.14 dB	-19.14 dB
-29.292 MHz	-19.528 MHz	300.000 kHz	6.38575 GHz	-57.98 dBm	-59.20 dB	-19.25 dB
-19.528 MHz	-10.764 MHz	300.000 kHz	6.40420 GHz	-33.45 dBm	-34.67 dB	-14.63 dB
-10.764 MHz	-9.764 MHz	300.000 kHz	6.40428 GHz	-32.96 dBm	-34.18 dB	-15.01 dB
9.764 MHz	10.764 MHz	300.000 kHz	6.42572 GHz	-33.63 dBm	-34.85 dB	-15.69 dB
10.764 MHz	19.528 MHz	300.000 kHz	6.42580 GHz	-34.08 dBm	-35.30 dB	-15.27 dB
19.528 MHz	29.292 MHz	300.000 kHz	6.44425 GHz	-58.64 dBm	-59.86 dB	-19.91 dB
29.292 MHz	39.056 MHz	300.000 kHz	6.44496 GHz	-58.43 dBm	-59.65 dB	-19.65 dB

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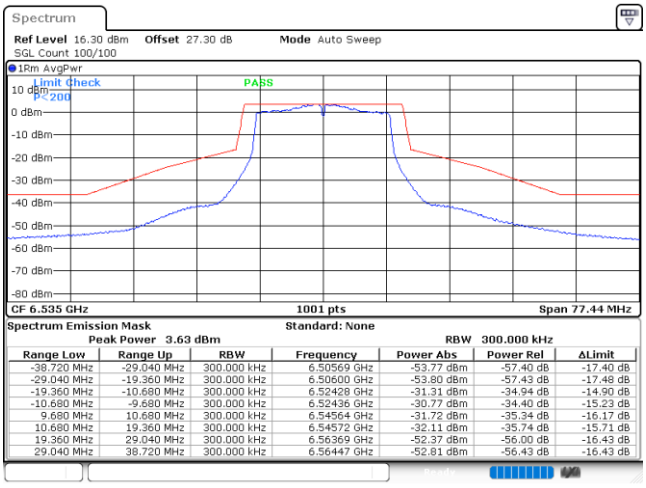
Plot on Channel 6535 MHz



Spectrum Emission Mask Standard: None
Peak Power 3.63 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.720 MHz	-29.040 MHz	300.000 kHz	6.50569 GHz	-53.77 dBm	-57.40 dB	-17.40 dB
-29.040 MHz	-19.360 MHz	300.000 kHz	6.50600 GHz	-53.80 dBm	-57.43 dB	-17.48 dB
-19.360 MHz	-10.680 MHz	300.000 kHz	6.52428 GHz	-31.31 dBm	-34.94 dB	-14.90 dB
-10.680 MHz	-9.680 MHz	300.000 kHz	6.52436 GHz	-30.77 dBm	-34.40 dB	-15.23 dB
9.680 MHz	10.680 MHz	300.000 kHz	6.54564 GHz	-31.72 dBm	-35.34 dB	-16.17 dB
10.680 MHz	19.360 MHz	300.000 kHz	6.54572 GHz	-32.11 dBm	-35.74 dB	-15.71 dB
19.360 MHz	29.040 MHz	300.000 kHz	6.56369 GHz	-52.37 dBm	-56.00 dB	-16.43 dB
29.040 MHz	38.720 MHz	300.000 kHz	6.56447 GHz	-52.81 dBm	-56.43 dB	-16.43 dB

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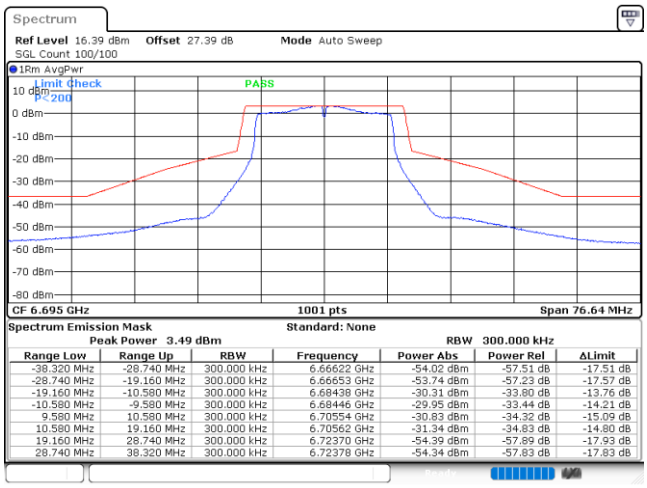
Plot on Channel 6695 MHz



Spectrum Emission Mask Standard: None

Peak Power 3.49 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.320 MHz	-28.740 MHz	300.000 kHz	6.66622 GHz	-54.02 dBm	-57.51 dB	-17.51 dB
-28.740 MHz	-19.160 MHz	300.000 kHz	6.66653 GHz	-53.74 dBm	-57.23 dB	-17.57 dB
-19.160 MHz	-10.580 MHz	300.000 kHz	6.68438 GHz	-30.31 dBm	-33.80 dB	-13.76 dB
-10.580 MHz	-9.580 MHz	300.000 kHz	6.68446 GHz	-29.95 dBm	-33.44 dB	-14.21 dB
9.580 MHz	10.580 MHz	300.000 kHz	6.70554 GHz	-30.83 dBm	-34.32 dB	-15.09 dB
10.580 MHz	19.160 MHz	300.000 kHz	6.70562 GHz	-31.34 dBm	-34.83 dB	-14.80 dB
19.160 MHz	28.740 MHz	300.000 kHz	6.72370 GHz	-54.39 dBm	-57.89 dB	-17.93 dB
28.740 MHz	38.320 MHz	300.000 kHz	6.72378 GHz	-54.34 dBm	-57.83 dB	-17.83 dB

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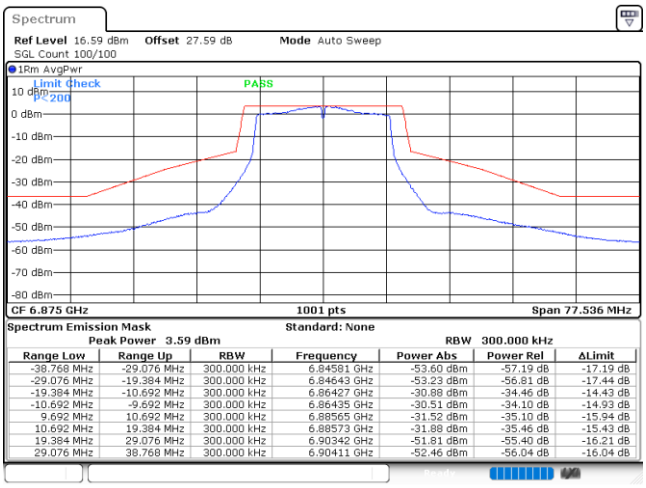
Plot on Channel 6875 MHz



Spectrum Emission Mask Standard: None

Peak Power 3.59 dBm RBW 300.000 kHz

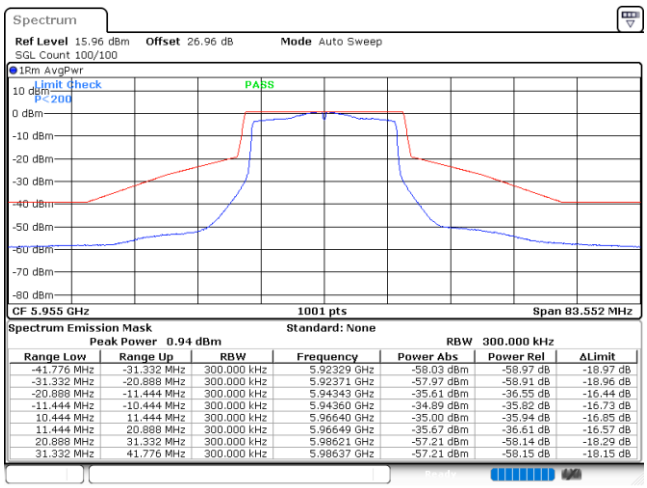
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-38.768 MHz	-29.076 MHz	300.000 kHz	6.84581 GHz	-53.60 dBm	-57.19 dB	-17.19 dB
-29.076 MHz	-19.384 MHz	300.000 kHz	6.84643 GHz	-53.23 dBm	-56.81 dB	-17.44 dB
-19.384 MHz	-10.692 MHz	300.000 kHz	6.86427 GHz	-30.88 dBm	-34.46 dB	-14.43 dB
-10.692 MHz	-9.692 MHz	300.000 kHz	6.86435 GHz	-30.51 dBm	-34.10 dB	-14.93 dB
9.692 MHz	10.692 MHz	300.000 kHz	6.88565 GHz	-31.52 dBm	-35.10 dB	-15.94 dB
10.692 MHz	19.384 MHz	300.000 kHz	6.88573 GHz	-31.88 dBm	-35.46 dB	-15.43 dB
19.384 MHz	29.076 MHz	300.000 kHz	6.90342 GHz	-51.81 dBm	-55.40 dB	-16.21 dB
29.076 MHz	38.768 MHz	300.000 kHz	6.90411 GHz	-52.46 dBm	-56.04 dB	-16.04 dB

Date: 22.MAR.2024 15:09:05

MIMO <Ant. 6+7(6)>

EUT Mode	802.11ax HE20 Full RU

Plot on Channel 5955 MHz



Spectrum Emission Mask Standard: None
Peak Power 0.94 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.776 MHz	-31.332 MHz	300.000 kHz	5.92329 GHz	-58.03 dBm	-58.97 dB	-18.97 dB
-31.332 MHz	-20.888 MHz	300.000 kHz	5.92371 GHz	-57.97 dBm	-58.91 dB	-18.96 dB
-20.888 MHz	-11.444 MHz	300.000 kHz	5.94343 GHz	-35.61 dBm	-36.55 dB	-16.44 dB
-11.444 MHz	-10.444 MHz	300.000 kHz	5.94360 GHz	-34.89 dBm	-35.82 dB	-16.73 dB
10.444 MHz	11.444 MHz	300.000 kHz	5.96640 GHz	-35.00 dBm	-35.94 dB	-16.85 dB
11.444 MHz	20.888 MHz	300.000 kHz	5.96649 GHz	-35.67 dBm	-36.61 dB	-16.57 dB
20.888 MHz	31.332 MHz	300.000 kHz	5.98621 GHz	-57.21 dBm	-58.14 dB	-18.29 dB
31.332 MHz	41.776 MHz	300.000 kHz	5.98637 GHz	-57.21 dBm	-58.15 dB	-18.15 dB

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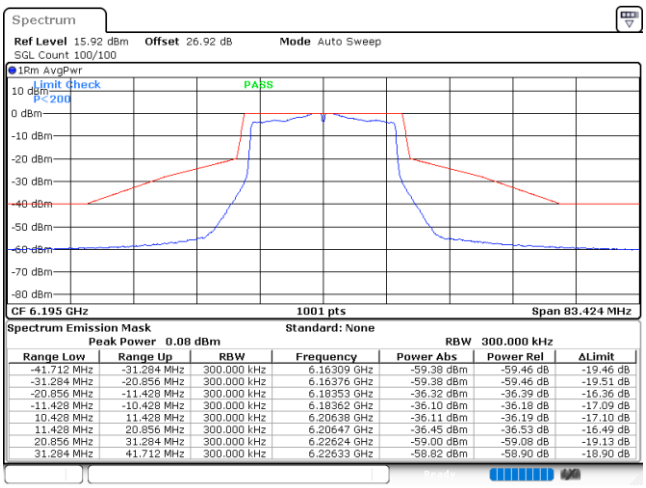
Plot on Channel 6195 MHz



Spectrum Emission Mask Standard: None
Peak Power 0.08 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.712 MHz	-31.284 MHz	300.000 kHz	6.16309 GHz	-59.38 dBm	-59.46 dB	-19.46 dB
-31.284 MHz	-20.856 MHz	300.000 kHz	6.16376 GHz	-59.38 dBm	-59.46 dB	-19.51 dB
-20.856 MHz	-11.428 MHz	300.000 kHz	6.18353 GHz	-36.32 dBm	-36.39 dB	-16.36 dB
-11.428 MHz	-10.428 MHz	300.000 kHz	6.18362 GHz	-36.10 dBm	-36.18 dB	-17.09 dB
10.428 MHz	11.428 MHz	300.000 kHz	6.20638 GHz	-36.11 dBm	-36.19 dB	-17.10 dB
11.428 MHz	20.856 MHz	300.000 kHz	6.20647 GHz	-36.45 dBm	-36.53 dB	-16.49 dB
20.856 MHz	31.284 MHz	300.000 kHz	6.22624 GHz	-59.00 dBm	-59.08 dB	-19.13 dB
31.284 MHz	41.712 MHz	300.000 kHz	6.22633 GHz	-58.82 dBm	-58.90 dB	-18.90 dB

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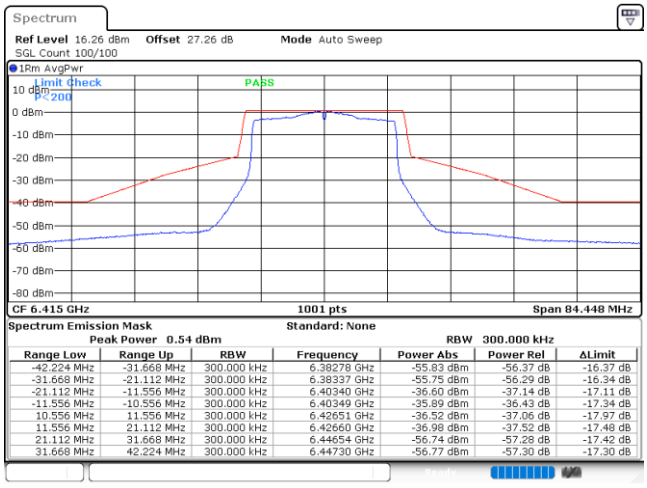
Plot on Channel 6415 MHz

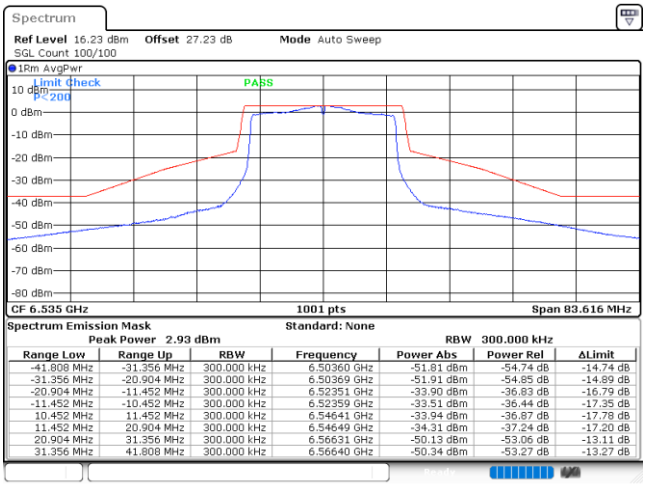


Spectrum Emission Mask Standard: None
Peak Power 0.54 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.224 MHz	-31.668 MHz	300.000 kHz	6.38278 GHz	-55.83 dBm	-56.37 dB	-16.37 dB
-31.668 MHz	-21.112 MHz	300.000 kHz	6.38337 GHz	-55.75 dBm	-56.29 dB	-16.34 dB
-21.112 MHz	-11.556 MHz	300.000 kHz	6.40340 GHz	-36.60 dBm	-37.14 dB	-17.11 dB
-11.556 MHz	-10.556 MHz	300.000 kHz	6.40349 GHz	-35.89 dBm	-36.43 dB	-17.34 dB
10.556 MHz	11.556 MHz	300.000 kHz	6.42651 GHz	-36.52 dBm	-37.06 dB	-17.97 dB
11.556 MHz	21.112 MHz	300.000 kHz	6.42660 GHz	-36.98 dBm	-37.52 dB	-17.48 dB
21.112 MHz	31.668 MHz	300.000 kHz	6.44654 GHz	-56.74 dBm	-57.28 dB	-17.42 dB
31.668 MHz	42.224 MHz	300.000 kHz	6.44730 GHz	-56.77 dBm	-57.30 dB	-17.30 dB

Date: 22.MAR.2024 16:06:21

Plot on Channel 6535 MHz



Spectrum Emission Mask Standard: None
Peak Power 2.93 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.50360 GHz	-51.81 dBm	-54.74 dB	-14.74 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.50369 GHz	-51.91 dBm	-54.85 dB	-14.89 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.52351 GHz	-33.90 dBm	-36.83 dB	-16.79 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.52359 GHz	-33.51 dBm	-36.44 dB	-17.35 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.54641 GHz	-33.94 dBm	-36.87 dB	-17.78 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.54649 GHz	-34.31 dBm	-37.24 dB	-17.20 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.56631 GHz	-50.13 dBm	-53.06 dB	-13.11 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.56640 GHz	-50.34 dBm	-53.27 dB	-13.27 dB

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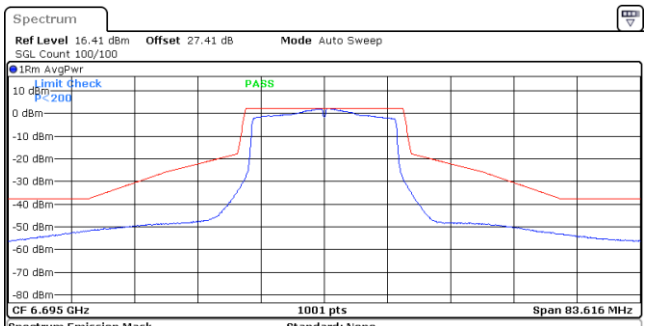
Plot on Channel 6695 MHz

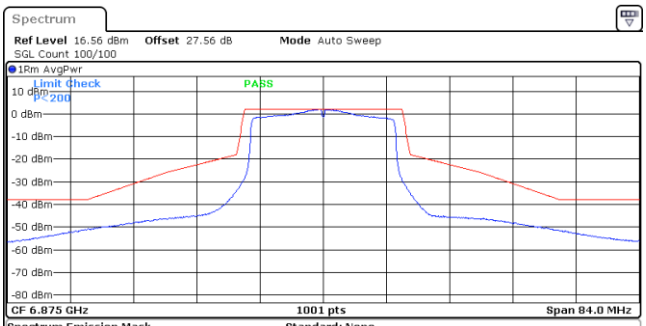


Spectrum Emission Mask Standard: None
Peak Power 2.27 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.66343 GHz	-51.78 dBm	-54.05 dB	-14.05 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.66377 GHz	-51.69 dBm	-53.97 dB	-14.11 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.68351 GHz	-34.29 dBm	-36.57 dB	-16.53 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.68359 GHz	-33.82 dBm	-36.09 dB	-17.00 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.70641 GHz	-34.62 dBm	-36.89 dB	-17.80 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.70649 GHz	-34.94 dBm	-37.21 dB	-17.17 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.72631 GHz	-53.12 dBm	-55.40 dB	-15.44 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.72640 GHz	-53.25 dBm	-55.52 dB	-15.52 dB

Date: 22.MAR.2024 16:27:26

Plot on Channel 6875 MHz



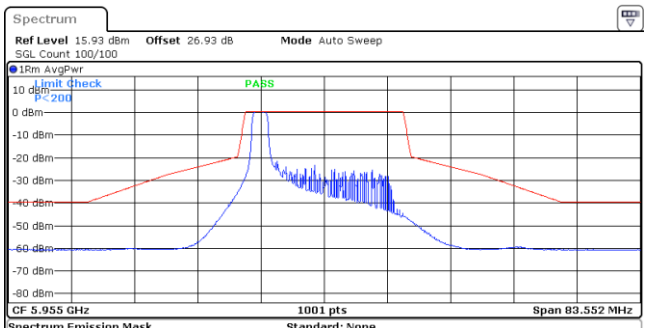
Spectrum Emission Mask Standard: None
Peak Power 2.02 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84337 GHz	-51.06 dBm	-53.08 dB	-13.08 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84379 GHz	-50.68 dBm	-52.70 dB	-13.04 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.86346 GHz	-34.09 dBm	-36.11 dB	-16.08 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-33.57 dBm	-35.59 dB	-16.50 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-34.66 dBm	-36.68 dB	-17.59 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88654 GHz	-35.05 dBm	-37.07 dB	-17.03 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90646 GHz	-51.58 dBm	-53.59 dB	-13.64 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.90663 GHz	-51.70 dBm	-53.72 dB	-13.72 dB

Date: 22.MAR.2024 16:32:12

EUT Mode	802.11ax HE20 26RU0

Plot on Channel 5955 MHz

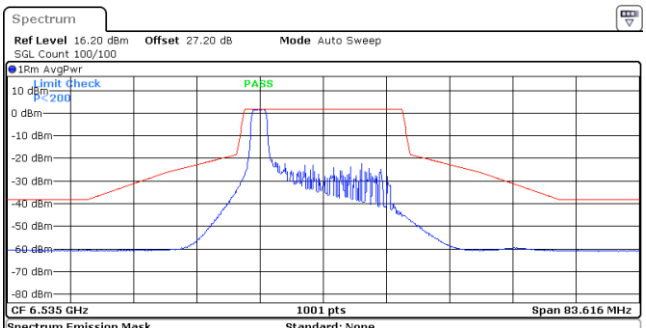


Spectrum Emission Mask Standard: None
Peak Power 0.43 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.776 MHz	-31.332 MHz	300.000 kHz	5.91327 GHz	-60.38 dBm	-60.81 dB	-20.81 dB
-31.332 MHz	-20.888 MHz	300.000 kHz	5.92371 GHz	-60.49 dBm	-60.92 dB	-20.97 dB
-20.888 MHz	-11.444 MHz	300.000 kHz	5.94351 GHz	-35.31 dBm	-35.73 dB	-15.70 dB
-11.444 MHz	-10.444 MHz	300.000 kHz	5.94360 GHz	-34.85 dBm	-35.27 dB	-16.18 dB
10.444 MHz	11.444 MHz	300.000 kHz	5.96640 GHz	-47.98 dBm	-48.41 dB	-29.32 dB
11.444 MHz	20.888 MHz	300.000 kHz	5.96649 GHz	-47.88 dBm	-48.30 dB	-28.27 dB
20.888 MHz	31.332 MHz	300.000 kHz	5.98629 GHz	-60.60 dBm	-61.03 dB	-21.08 dB
31.332 MHz	41.776 MHz	300.000 kHz	5.98804 GHz	-60.45 dBm	-60.88 dB	-20.88 dB

Date: 23.MAR.2024 08:07:13

Plot on Channel 6535 MHz



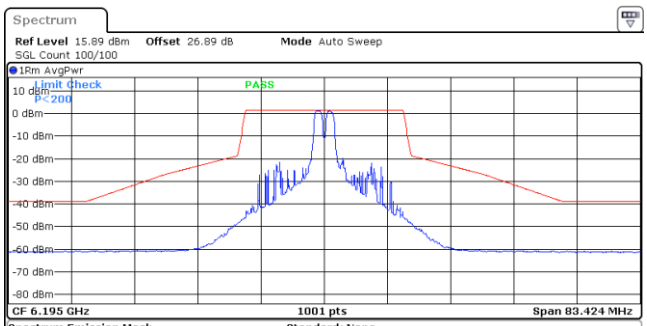
Spectrum Emission Mask Standard: None
Peak Power 1.66 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.49474 GHz	-60.40 dBm	-62.06 dB	-22.06 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.50369 GHz	-60.61 dBm	-62.27 dB	-22.31 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.52351 GHz	-34.05 dBm	-35.71 dB	-15.67 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.52359 GHz	-33.52 dBm	-35.18 dB	-16.08 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.54641 GHz	-47.00 dBm	-48.65 dB	-29.56 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.54649 GHz	-47.35 dBm	-49.01 dB	-28.97 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.56631 GHz	-60.71 dBm	-62.37 dB	-22.41 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.56916 GHz	-60.57 dBm	-62.23 dB	-22.23 dB

Date: 23.MAR.2024 08:01:27

EUT Mode	802.11ax HE20 26RU4

Plot on Channel 6195 MHz

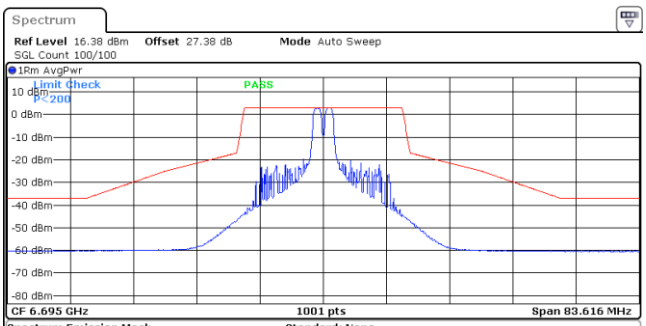


Spectrum Emission Mask Standard: None
Peak Power 1.27 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.712 MHz	-31.284 MHz	300.000 kHz	6.16084 GHz	-60.82 dBm	-62.08 dB	-22.08 dB
-31.284 MHz	-20.856 MHz	300.000 kHz	6.16376 GHz	-60.98 dBm	-62.24 dB	-22.29 dB
-20.856 MHz	-11.428 MHz	300.000 kHz	6.18353 GHz	-48.87 dBm	-50.14 dB	-30.10 dB
-11.428 MHz	-10.428 MHz	300.000 kHz	6.18362 GHz	-48.33 dBm	-49.59 dB	-30.50 dB
10.428 MHz	11.428 MHz	300.000 kHz	6.20638 GHz	-48.06 dBm	-49.33 dB	-30.24 dB
11.428 MHz	20.856 MHz	300.000 kHz	6.20664 GHz	-48.63 dBm	-49.89 dB	-29.72 dB
20.856 MHz	31.284 MHz	300.000 kHz	6.22624 GHz	-61.01 dBm	-62.28 dB	-22.33 dB
31.284 MHz	41.712 MHz	300.000 kHz	6.22741 GHz	-60.90 dBm	-62.16 dB	-22.16 dB

Date: 23.MAR.2024 08:06:05

Plot on Channel 6695 MHz



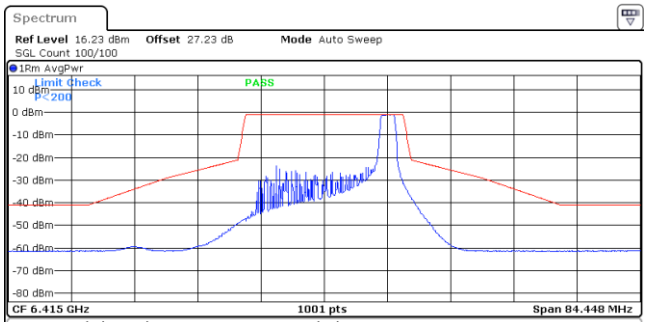
Spectrum Emission Mask Standard: None
Peak Power 3.01 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.66235 GHz	-60.02 dBm	-63.04 dB	-23.04 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.66369 GHz	-60.17 dBm	-63.18 dB	-23.23 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.68326 GHz	-47.20 dBm	-50.21 dB	-29.97 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.68359 GHz	-46.51 dBm	-49.53 dB	-30.43 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.70641 GHz	-46.92 dBm	-49.94 dB	-30.85 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.70658 GHz	-47.32 dBm	-50.33 dB	-30.22 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.72631 GHz	-60.42 dBm	-63.43 dB	-23.48 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.72732 GHz	-60.25 dBm	-63.26 dB	-23.26 dB

Date: 23.MAR.2024 09:27:57

EUT Mode	802.11ax HE20 26RU8

Plot on Channel 6415 MHz

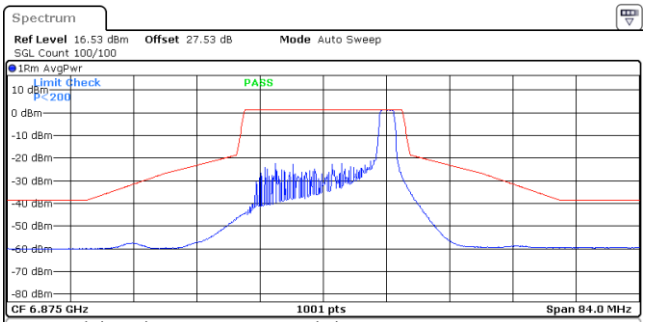


Spectrum Emission Mask Standard: None
Peak Power -1.11 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.224 MHz	-31.668 MHz	300.000 kHz	6.38109 GHz	-61.16 dBm	-60.05 dB	-20.05 dB
-31.668 MHz	-21.112 MHz	300.000 kHz	6.38337 GHz	-61.09 dBm	-59.98 dB	-20.03 dB
-21.112 MHz	-11.556 MHz	300.000 kHz	6.40340 GHz	-49.10 dBm	-47.99 dB	-27.96 dB
-11.556 MHz	-10.556 MHz	300.000 kHz	6.40349 GHz	-49.02 dBm	-47.91 dB	-28.82 dB
10.556 MHz	11.556 MHz	300.000 kHz	6.42651 GHz	-37.35 dBm	-36.24 dB	-17.15 dB
11.556 MHz	21.112 MHz	300.000 kHz	6.42660 GHz	-37.87 dBm	-36.76 dB	-16.73 dB
21.112 MHz	31.668 MHz	300.000 kHz	6.44663 GHz	-61.37 dBm	-60.26 dB	-20.31 dB
31.668 MHz	42.224 MHz	300.000 kHz	6.45608 GHz	-61.09 dBm	-59.98 dB	-19.98 dB

Date: 23.MAR.2024 08:02:49

Plot on Channel 6875 MHz



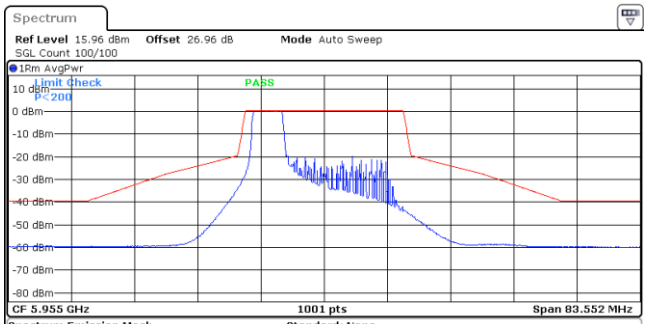
Spectrum Emission Mask Standard: None
Peak Power 1.34 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84119 GHz	-59.89 dBm	-61.23 dB	-21.23 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84354 GHz	-59.93 dBm	-61.28 dB	-21.33 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.86346 GHz	-46.48 dBm	-47.83 dB	-27.79 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-46.47 dBm	-47.82 dB	-28.73 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-34.61 dBm	-35.96 dB	-16.87 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88654 GHz	-35.22 dBm	-36.56 dB	-16.52 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90646 GHz	-59.44 dBm	-60.79 dB	-20.83 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.90738 GHz	-59.30 dBm	-60.64 dB	-20.64 dB

Date: 23.MAR.2024 09:25:19

EUT Mode	802.11ax HE20 52RU37

Plot on Channel 5955 MHz

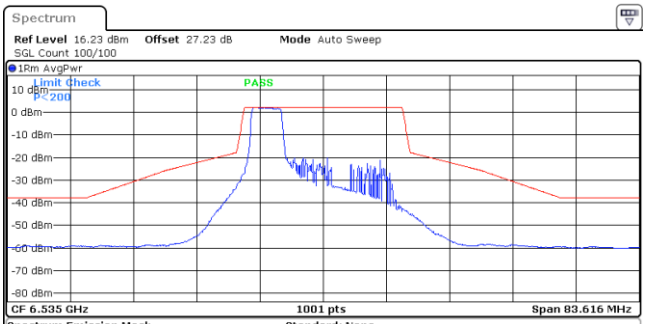


Spectrum Emission Mask Standard: None
Peak Power 0.49 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.776 MHz	-31.332 MHz	300.000 kHz	5.91477 GHz	-59.48 dBm	-59.96 dB	-19.96 dB
-31.332 MHz	-20.888 MHz	300.000 kHz	5.92371 GHz	-59.70 dBm	-60.19 dB	-20.23 dB
-20.888 MHz	-11.444 MHz	300.000 kHz	5.94351 GHz	-34.28 dBm	-34.76 dB	-14.73 dB
-11.444 MHz	-10.444 MHz	300.000 kHz	5.94360 GHz	-33.61 dBm	-34.10 dB	-15.01 dB
10.444 MHz	11.444 MHz	300.000 kHz	5.96640 GHz	-45.72 dBm	-46.21 dB	-27.12 dB
11.444 MHz	20.888 MHz	300.000 kHz	5.96649 GHz	-45.50 dBm	-45.98 dB	-25.95 dB
20.888 MHz	31.332 MHz	300.000 kHz	5.98621 GHz	-59.59 dBm	-60.08 dB	-20.22 dB
31.332 MHz	41.776 MHz	300.000 kHz	5.98855 GHz	-59.58 dBm	-60.06 dB	-20.06 dB

Date: 23.MAR.2024 08:35:26

Plot on Channel 6535 MHz



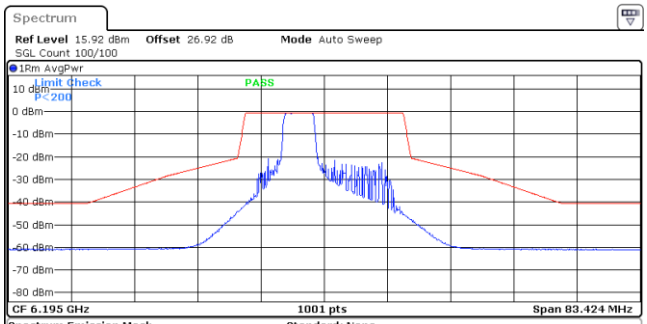
Spectrum Emission Mask Standard: None
Peak Power 2.18 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.50176 GHz	-59.01 dBm	-61.19 dB	-21.19 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.50369 GHz	-59.34 dBm	-61.52 dB	-21.57 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.52351 GHz	-32.97 dBm	-35.15 dB	-15.11 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.52359 GHz	-31.74 dBm	-33.92 dB	-14.83 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.54641 GHz	-45.26 dBm	-47.44 dB	-28.35 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.54674 GHz	-45.04 dBm	-47.22 dB	-26.98 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.56631 GHz	-59.27 dBm	-61.46 dB	-21.50 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.57024 GHz	-59.46 dBm	-61.64 dB	-21.64 dB

Date: 23.MAR.2024 09:10:05

EUT Mode	802.11ax HE20 52RU38

Plot on Channel 6195 MHz

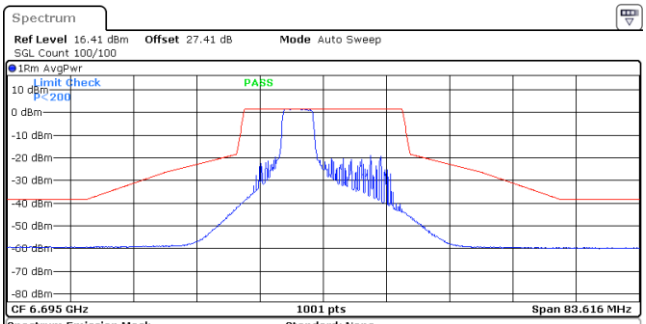


Spectrum Emission Mask Standard: None
Peak Power -0.58 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.712 MHz	-31.284 MHz	300.000 kHz	6.16259 GHz	-60.72 dBm	-60.13 dB	-20.13 dB
-31.284 MHz	-20.856 MHz	300.000 kHz	6.16376 GHz	-60.84 dBm	-60.25 dB	-20.30 dB
-20.856 MHz	-11.428 MHz	300.000 kHz	6.18353 GHz	-44.25 dBm	-43.66 dB	-23.63 dB
-11.428 MHz	-10.428 MHz	300.000 kHz	6.18362 GHz	-44.19 dBm	-43.61 dB	-24.52 dB
10.428 MHz	11.428 MHz	300.000 kHz	6.20638 GHz	-47.68 dBm	-47.09 dB	-28.00 dB
11.428 MHz	20.856 MHz	300.000 kHz	6.20647 GHz	-47.58 dBm	-47.00 dB	-26.96 dB
20.856 MHz	31.284 MHz	300.000 kHz	6.22624 GHz	-60.86 dBm	-60.28 dB	-20.32 dB
31.284 MHz	41.712 MHz	300.000 kHz	6.22758 GHz	-60.84 dBm	-60.25 dB	-20.25 dB

Date: 23.MAR.2024 08:41:14

Plot on Channel 6695 MHz



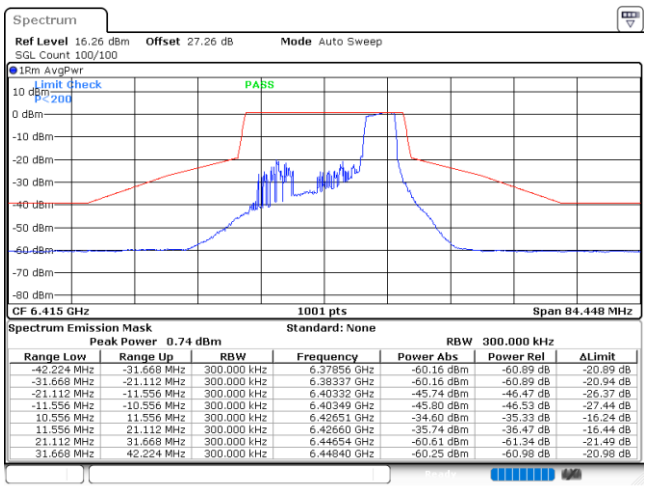
Spectrum Emission Mask Standard: None
Peak Power 1.63 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.66168 GHz	-59.23 dBm	-60.85 dB	-20.85 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.66369 GHz	-59.37 dBm	-61.00 dB	-21.05 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.68351 GHz	-41.90 dBm	-43.52 dB	-23.49 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.68359 GHz	-41.98 dBm	-43.61 dB	-24.52 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.70641 GHz	-45.82 dBm	-47.45 dB	-28.36 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.70666 GHz	-46.09 dBm	-47.72 dB	-27.54 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.72631 GHz	-59.77 dBm	-61.40 dB	-21.45 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.72949 GHz	-59.62 dBm	-61.25 dB	-21.25 dB

Date: 23.MAR.2024 09:18:48

EUT Mode	802.11ax HE20 52RU40

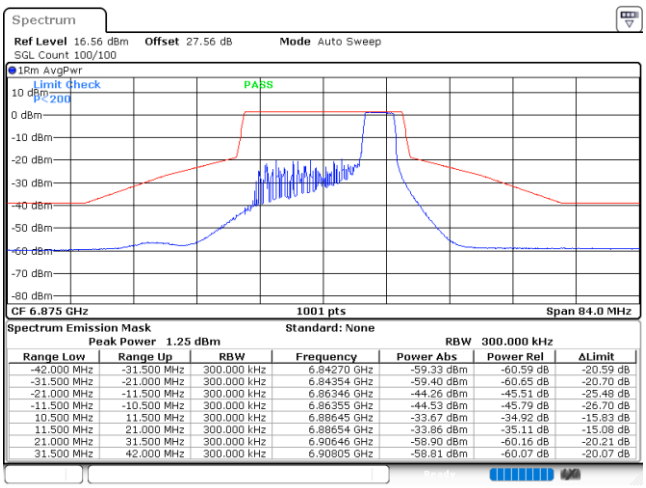
Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.224 MHz	-31.668 MHz	300.000 kHz	6.37856 GHz	-60.16 dBm	-60.89 dB	-20.89 dB
-31.668 MHz	-21.112 MHz	300.000 kHz	6.38337 GHz	-60.16 dBm	-60.89 dB	-20.94 dB
-21.112 MHz	-11.556 MHz	300.000 kHz	6.40332 GHz	-45.74 dBm	-46.47 dB	-26.37 dB
-11.556 MHz	-10.556 MHz	300.000 kHz	6.40349 GHz	-45.80 dBm	-46.53 dB	-27.44 dB
10.556 MHz	11.556 MHz	300.000 kHz	6.42651 GHz	-34.60 dBm	-35.33 dB	-16.24 dB
11.556 MHz	21.112 MHz	300.000 kHz	6.42660 GHz	-35.74 dBm	-36.47 dB	-16.44 dB
21.112 MHz	31.668 MHz	300.000 kHz	6.44654 GHz	-60.61 dBm	-61.34 dB	-21.49 dB
31.668 MHz	42.224 MHz	300.000 kHz	6.44840 GHz	-60.25 dBm	-60.98 dB	-20.98 dB

Date: 23.MAR.2024 09:00:58

Plot on Channel 6875 MHz

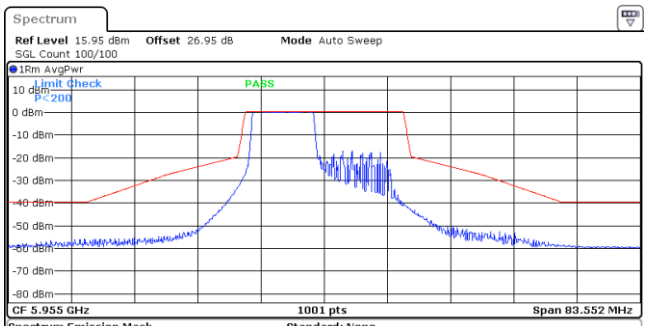


Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84270 GHz	-59.33 dBm	-60.59 dB	-20.59 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84354 GHz	-59.40 dBm	-60.65 dB	-20.70 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.86346 GHz	-44.26 dBm	-45.51 dB	-25.48 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-44.53 dBm	-45.79 dB	-26.70 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-33.67 dBm	-34.92 dB	-15.83 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88654 GHz	-33.86 dBm	-35.11 dB	-15.08 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90646 GHz	-58.90 dBm	-60.16 dB	-20.21 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.90805 GHz	-58.81 dBm	-60.07 dB	-20.07 dB

Date: 23.MAR.2024 09:23:58

EUT Mode	802.11ax HE20 106RU53

Plot on Channel 5955 MHz

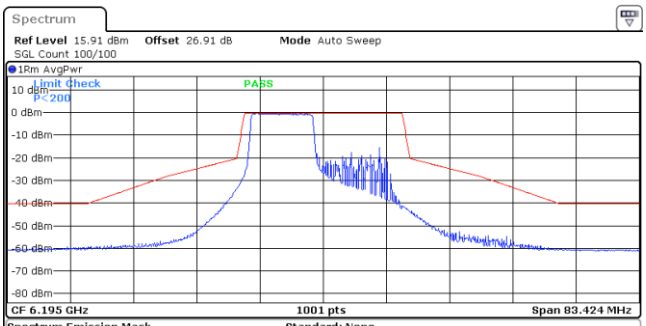


Spectrum Emission Mask Standard: None
Peak Power 0.49 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.776 MHz	-31.332 MHz	300.000 kHz	5.92329 GHz	-55.84 dBm	-56.33 dB	-16.33 dB
-31.332 MHz	-20.888 MHz	300.000 kHz	5.92404 GHz	-56.42 dBm	-56.91 dB	-17.34 dB
-20.888 MHz	-11.444 MHz	300.000 kHz	5.94343 GHz	-33.29 dBm	-33.77 dB	-13.67 dB
-11.444 MHz	-10.444 MHz	300.000 kHz	5.94360 GHz	-32.81 dBm	-33.30 dB	-14.21 dB
10.444 MHz	11.444 MHz	300.000 kHz	5.96640 GHz	-42.79 dBm	-43.28 dB	-24.19 dB
11.444 MHz	20.888 MHz	300.000 kHz	5.96690 GHz	-43.15 dBm	-43.64 dB	-23.25 dB
20.888 MHz	31.332 MHz	300.000 kHz	5.98587 GHz	-58.23 dBm	-58.72 dB	-19.25 dB
31.332 MHz	41.776 MHz	300.000 kHz	5.98671 GHz	-58.51 dBm	-59.00 dB	-19.00 dB

Date: 23.MAR.2024 09:36:50

Plot on Channel 6195 MHz

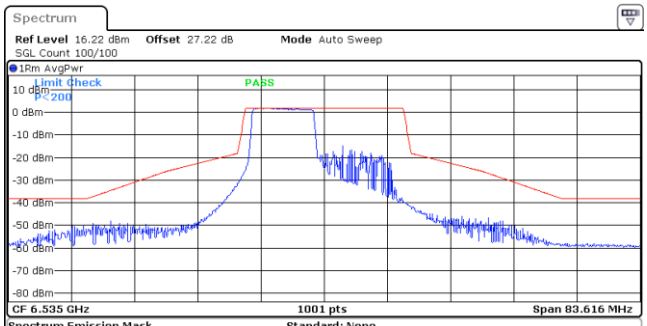


Spectrum Emission Mask Standard: None
Peak Power -0.40 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.712 MHz	-31.284 MHz	300.000 kHz	6.16125 GHz	-59.41 dBm	-59.01 dB	-19.01 dB
-31.284 MHz	-20.856 MHz	300.000 kHz	6.16376 GHz	-59.69 dBm	-59.30 dB	-19.35 dB
-20.856 MHz	-11.428 MHz	300.000 kHz	6.18353 GHz	-33.95 dBm	-33.55 dB	-13.52 dB
-11.428 MHz	-10.428 MHz	300.000 kHz	6.18362 GHz	-33.46 dBm	-33.07 dB	-13.98 dB
10.428 MHz	11.428 MHz	300.000 kHz	6.20638 GHz	-43.67 dBm	-43.27 dB	-24.18 dB
11.428 MHz	20.856 MHz	300.000 kHz	6.20655 GHz	-43.28 dBm	-42.89 dB	-22.78 dB
20.856 MHz	31.284 MHz	300.000 kHz	6.22624 GHz	-60.51 dBm	-60.12 dB	-20.17 dB
31.284 MHz	41.712 MHz	300.000 kHz	6.22633 GHz	-60.40 dBm	-60.00 dB	-20.00 dB

Date: 23.MAR.2024 09:40:52

Plot on Channel 6535 MHz

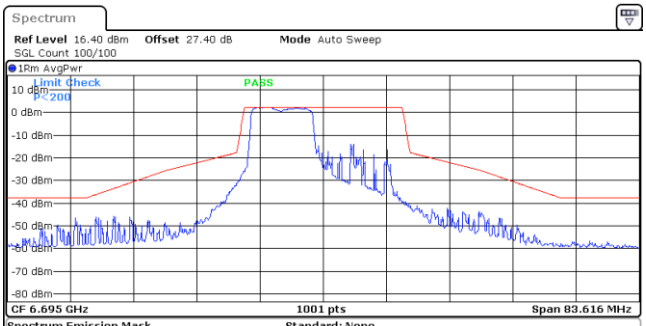


Spectrum Emission Mask Standard: None
Peak Power 1.87 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.50318 GHz	-49.71 dBm	-51.58 dB	-11.58 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.50444 GHz	-49.25 dBm	-51.12 dB	-12.03 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.52342 GHz	-31.66 dBm	-33.53 dB	-13.42 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.52359 GHz	-31.35 dBm	-33.22 dB	-14.13 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.54641 GHz	-41.71 dBm	-43.58 dB	-24.49 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.55494 GHz	-47.12 dBm	-48.99 dB	-21.81 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.55862 GHz	-48.08 dBm	-49.95 dB	-18.83 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.56715 GHz	-57.94 dBm	-59.81 dB	-19.81 dB

Date: 23.MAR.2024 09:48:24

Plot on Channel 6695 MHz



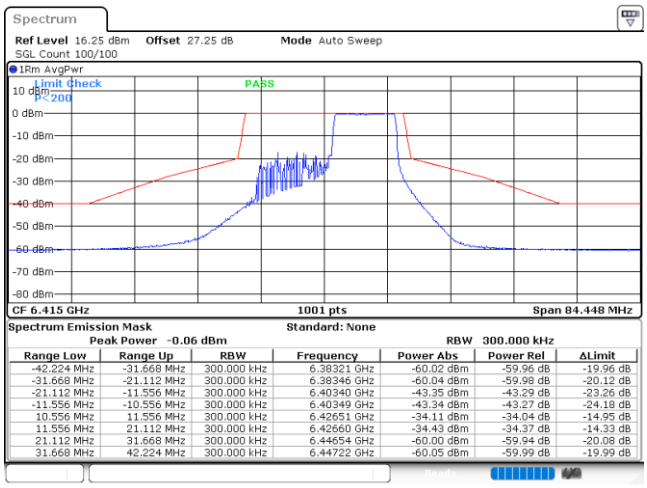
Spectrum Emission Mask Standard: None
Peak Power 2.32 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.808 MHz	-31.356 MHz	300.000 kHz	6.66218 GHz	-46.63 dBm	-48.95 dB	-8.95 dB
-31.356 MHz	-20.904 MHz	300.000 kHz	6.66494 GHz	-45.97 dBm	-48.29 dB	-9.78 dB
-20.904 MHz	-11.452 MHz	300.000 kHz	6.68351 GHz	-31.30 dBm	-33.62 dB	-13.58 dB
-11.452 MHz	-10.452 MHz	300.000 kHz	6.68359 GHz	-31.42 dBm	-33.74 dB	-14.65 dB
10.452 MHz	11.452 MHz	300.000 kHz	6.70641 GHz	-41.96 dBm	-44.27 dB	-25.18 dB
11.452 MHz	20.904 MHz	300.000 kHz	6.71561 GHz	-43.53 dBm	-45.85 dB	-18.10 dB
20.904 MHz	31.356 MHz	300.000 kHz	6.71829 GHz	-46.35 dBm	-48.67 dB	-17.93 dB
31.356 MHz	41.808 MHz	300.000 kHz	6.73024 GHz	-56.61 dBm	-58.92 dB	-18.92 dB

Date: 23.MAR.2024 09:52:50

EUT Mode	802.11ax HE20 106RU54

Plot on Channel 6415 MHz



Spectrum Emission Mask Standard: None

Peak Power -0.06 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.224 MHz	-31.668 MHz	300.000 kHz	6.38321 GHz	-60.02 dBm	-59.96 dB	-19.96 dB
-31.668 MHz	-21.112 MHz	300.000 kHz	6.38346 GHz	-60.04 dBm	-59.98 dB	-20.12 dB
-21.112 MHz	-11.556 MHz	300.000 kHz	6.40340 GHz	-43.35 dBm	-43.29 dB	-23.26 dB
-11.556 MHz	-10.556 MHz	300.000 kHz	6.40349 GHz	-43.34 dBm	-43.27 dB	-24.18 dB
10.556 MHz	11.556 MHz	300.000 kHz	6.42651 GHz	-34.11 dBm	-34.04 dB	-14.95 dB
11.556 MHz	21.112 MHz	300.000 kHz	6.42660 GHz	-34.43 dBm	-34.37 dB	-14.33 dB
21.112 MHz	31.668 MHz	300.000 kHz	6.44654 GHz	-60.00 dBm	-59.94 dB	-20.08 dB
31.668 MHz	42.224 MHz	300.000 kHz	6.44722 GHz	-60.05 dBm	-59.99 dB	-19.99 dB

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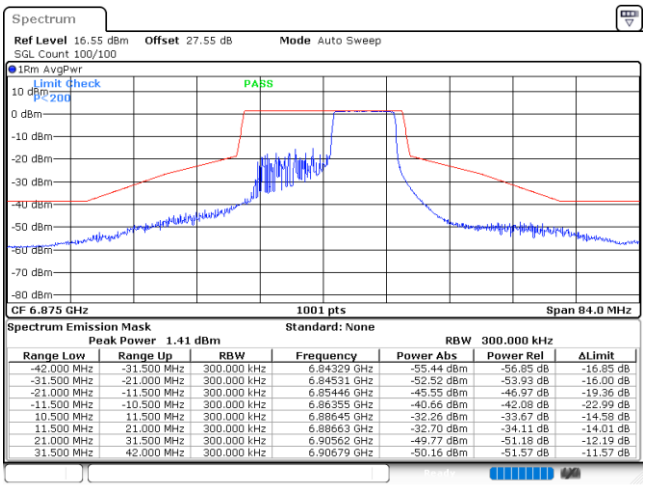
Plot on Channel 6875 MHz



Spectrum Emission Mask Standard: None

Peak Power 1.41 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84329 GHz	-55.44 dBm	-56.85 dB	-16.85 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84531 GHz	-52.52 dBm	-53.93 dB	-16.00 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.85446 GHz	-45.55 dBm	-46.97 dB	-19.36 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-40.66 dBm	-42.08 dB	-22.99 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-32.26 dBm	-33.67 dB	-14.58 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88663 GHz	-32.70 dBm	-34.11 dB	-14.01 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90562 GHz	-49.77 dBm	-51.18 dB	-12.19 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.90679 GHz	-50.16 dBm	-51.57 dB	-11.57 dB

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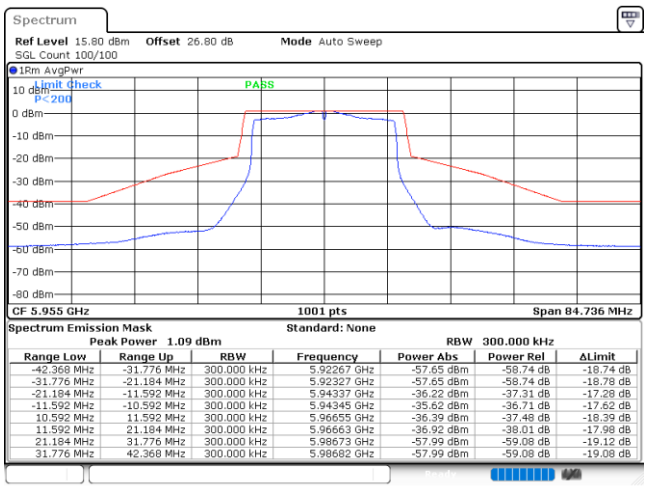
EUT Mode	802.11ax HE20 Full RU

Plot on Channel 5955 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.368 MHz	-31.776 MHz	300.000 kHz	5.92267 GHz	-57.65 dBm	-58.74 dB	-18.74 dB
-31.776 MHz	-21.184 MHz	300.000 kHz	5.92327 GHz	-57.65 dBm	-58.74 dB	-18.78 dB
-21.184 MHz	-11.592 MHz	300.000 kHz	5.94337 GHz	-36.22 dBm	-37.31 dB	-17.28 dB
-11.592 MHz	-10.592 MHz	300.000 kHz	5.94345 GHz	-35.62 dBm	-36.71 dB	-17.62 dB
10.592 MHz	11.592 MHz	300.000 kHz	5.96655 GHz	-36.39 dBm	-37.48 dB	-18.39 dB
11.592 MHz	21.184 MHz	300.000 kHz	5.96663 GHz	-36.92 dBm	-38.01 dB	-17.98 dB
21.184 MHz	31.776 MHz	300.000 kHz	5.98673 GHz	-57.99 dBm	-59.08 dB	-19.12 dB
31.776 MHz	42.368 MHz	300.000 kHz	5.98682 GHz	-57.99 dBm	-59.08 dB	-19.08 dB

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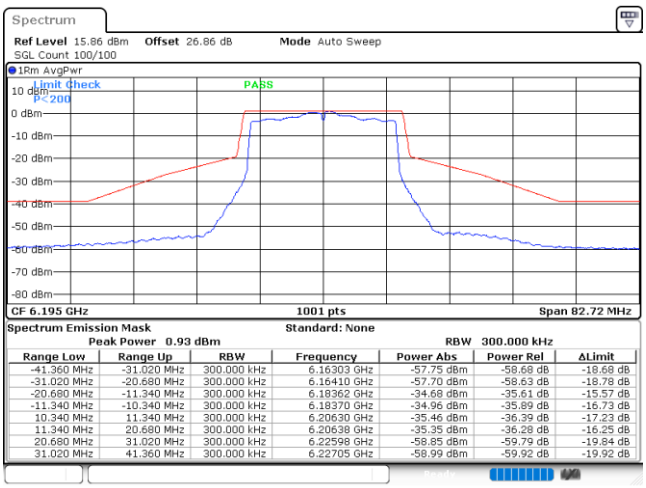
Plot on Channel 6195 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.360 MHz	-31.020 MHz	300.000 kHz	6.16303 GHz	-57.75 dBm	-58.68 dB	-18.68 dB
-31.020 MHz	-20.680 MHz	300.000 kHz	6.16410 GHz	-57.70 dBm	-58.63 dB	-18.78 dB
-20.680 MHz	-11.340 MHz	300.000 kHz	6.18362 GHz	-34.68 dBm	-35.61 dB	-15.57 dB
-11.340 MHz	-10.340 MHz	300.000 kHz	6.18370 GHz	-34.96 dBm	-35.89 dB	-16.73 dB
10.340 MHz	11.340 MHz	300.000 kHz	6.20630 GHz	-35.46 dBm	-36.39 dB	-17.23 dB
11.340 MHz	20.680 MHz	300.000 kHz	6.20638 GHz	-35.35 dBm	-36.28 dB	-16.25 dB
20.680 MHz	31.020 MHz	300.000 kHz	6.22598 GHz	-58.85 dBm	-59.79 dB	-19.84 dB
31.020 MHz	41.360 MHz	300.000 kHz	6.22705 GHz	-58.99 dBm	-59.92 dB	-19.92 dB

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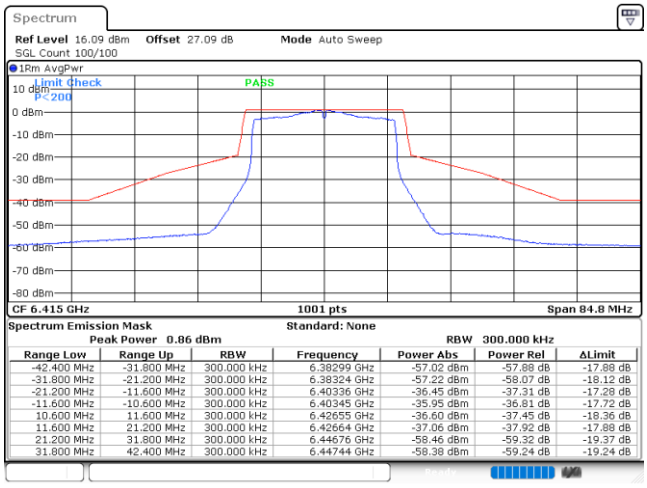
Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.400 MHz	-31.800 MHz	300.000 kHz	6.38299 GHz	-57.02 dBm	-57.88 dB	-17.88 dB
-31.800 MHz	-21.200 MHz	300.000 kHz	6.38324 GHz	-57.22 dBm	-58.07 dB	-18.12 dB
-21.200 MHz	-11.600 MHz	300.000 kHz	6.40336 GHz	-36.45 dBm	-37.31 dB	-17.28 dB
-11.600 MHz	-10.600 MHz	300.000 kHz	6.40345 GHz	-35.95 dBm	-36.81 dB	-17.72 dB
10.600 MHz	11.600 MHz	300.000 kHz	6.42655 GHz	-36.60 dBm	-37.45 dB	-18.36 dB
11.600 MHz	21.200 MHz	300.000 kHz	6.42664 GHz	-37.06 dBm	-37.92 dB	-17.88 dB
21.200 MHz	31.800 MHz	300.000 kHz	6.44676 GHz	-58.46 dBm	-59.32 dB	-19.37 dB
31.800 MHz	42.400 MHz	300.000 kHz	6.44744 GHz	-58.38 dBm	-59.24 dB	-19.24 dB

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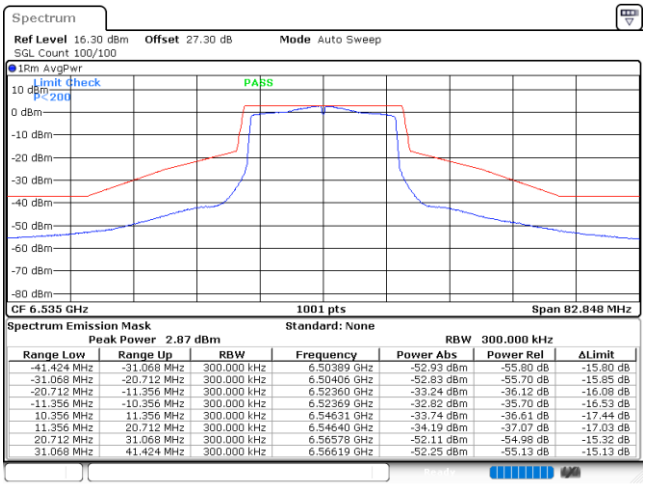
Plot on Channel 6535 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.424 MHz	-31.068 MHz	300.000 kHz	6.50389 GHz	-52.93 dBm	-55.80 dB	-15.80 dB
-31.068 MHz	-20.712 MHz	300.000 kHz	6.50406 GHz	-52.83 dBm	-55.70 dB	-15.85 dB
-20.712 MHz	-11.356 MHz	300.000 kHz	6.52360 GHz	-33.24 dBm	-36.12 dB	-16.08 dB
-11.356 MHz	-10.356 MHz	300.000 kHz	6.52369 GHz	-32.82 dBm	-35.70 dB	-16.53 dB
10.356 MHz	11.356 MHz	300.000 kHz	6.54631 GHz	-33.74 dBm	-36.61 dB	-17.44 dB
11.356 MHz	20.712 MHz	300.000 kHz	6.54640 GHz	-34.19 dBm	-37.07 dB	-17.03 dB
20.712 MHz	31.068 MHz	300.000 kHz	6.56578 GHz	-52.11 dBm	-54.98 dB	-15.32 dB
31.068 MHz	41.424 MHz	300.000 kHz	6.56619 GHz	-52.25 dBm	-55.13 dB	-15.13 dB

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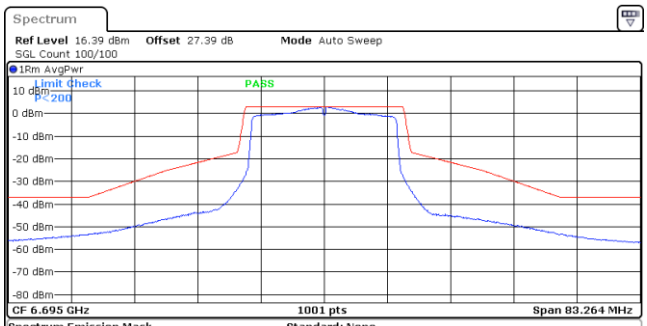
Plot on Channel 6695 MHz



Spectrum Emission Mask Standard: None
Peak Power 2.88 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.632 MHz	-31.224 MHz	300.000 kHz	6.66373 GHz	-53.47 dBm	-56.35 dB	-16.35 dB
-31.224 MHz	-20.816 MHz	300.000 kHz	6.66382 GHz	-53.41 dBm	-56.29 dB	-16.34 dB
-20.816 MHz	-11.408 MHz	300.000 kHz	6.68355 GHz	-33.40 dBm	-36.28 dB	-16.24 dB
-11.408 MHz	-10.408 MHz	300.000 kHz	6.68363 GHz	-32.69 dBm	-35.57 dB	-16.40 dB
10.408 MHz	11.408 MHz	300.000 kHz	6.70637 GHz	-33.80 dBm	-36.68 dB	-17.51 dB
11.408 MHz	20.816 MHz	300.000 kHz	6.70645 GHz	-34.33 dBm	-37.20 dB	-17.17 dB
20.816 MHz	31.224 MHz	300.000 kHz	6.72618 GHz	-53.23 dBm	-56.11 dB	-16.15 dB
31.224 MHz	41.632 MHz	300.000 kHz	6.72627 GHz	-53.21 dBm	-56.09 dB	-16.09 dB

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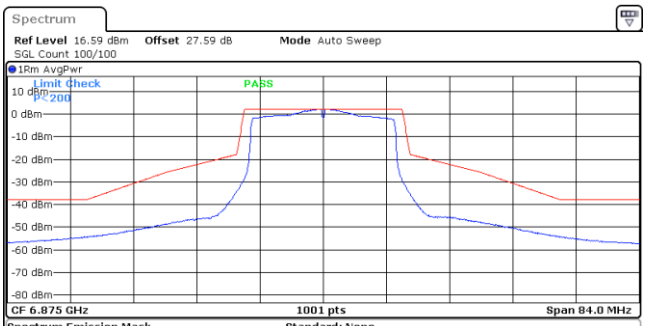
Plot on Channel 6875 MHz



Spectrum Emission Mask Standard: None
Peak Power 2.14 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84329 GHz	-54.23 dBm	-56.37 dB	-16.37 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84363 GHz	-54.11 dBm	-56.25 dB	-16.39 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.86346 GHz	-34.37 dBm	-36.51 dB	-16.47 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-34.03 dBm	-36.17 dB	-17.08 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-35.00 dBm	-37.14 dB	-18.04 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88654 GHz	-35.39 dBm	-37.53 dB	-17.49 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90621 GHz	-53.95 dBm	-56.09 dB	-16.42 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.90654 GHz	-54.19 dBm	-56.33 dB	-16.33 dB

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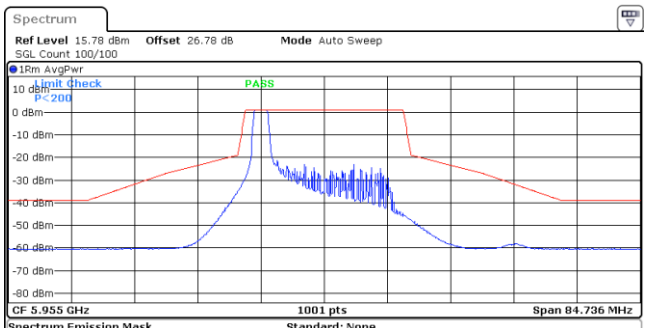
EUT Mode	802.11ax HE20 26RU0

Plot on Channel 5955 MHz



Spectrum Emission Mask Standard: None
Peak Power 1.02 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.368 MHz	-31.776 MHz	300.000 kHz	5.91666 GHz	-60.30 dBm	-61.32 dB	-21.32 dB
-31.776 MHz	-21.184 MHz	300.000 kHz	5.92327 GHz	-60.37 dBm	-61.38 dB	-21.43 dB
-21.184 MHz	-11.592 MHz	300.000 kHz	5.94337 GHz	-35.26 dBm	-36.28 dB	-16.24 dB
-11.592 MHz	-10.592 MHz	300.000 kHz	5.94345 GHz	-34.78 dBm	-35.80 dB	-16.71 dB
10.592 MHz	11.592 MHz	300.000 kHz	5.96655 GHz	-47.65 dBm	-48.66 dB	-29.57 dB
11.592 MHz	21.184 MHz	300.000 kHz	5.96706 GHz	-48.09 dBm	-49.10 dB	-28.71 dB
21.184 MHz	31.776 MHz	300.000 kHz	5.98673 GHz	-60.33 dBm	-61.34 dB	-21.39 dB
31.776 MHz	42.368 MHz	300.000 kHz	5.99292 GHz	-60.23 dBm	-61.25 dB	-21.25 dB

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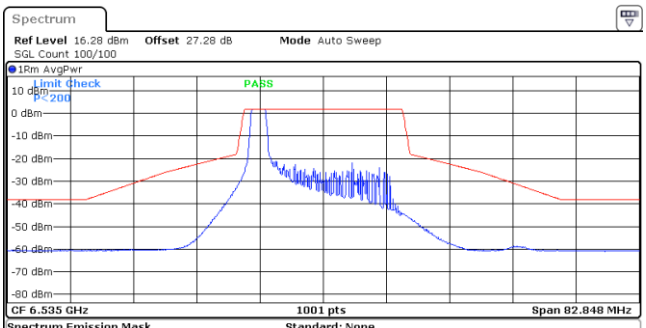
Plot on Channel 6535 MHz



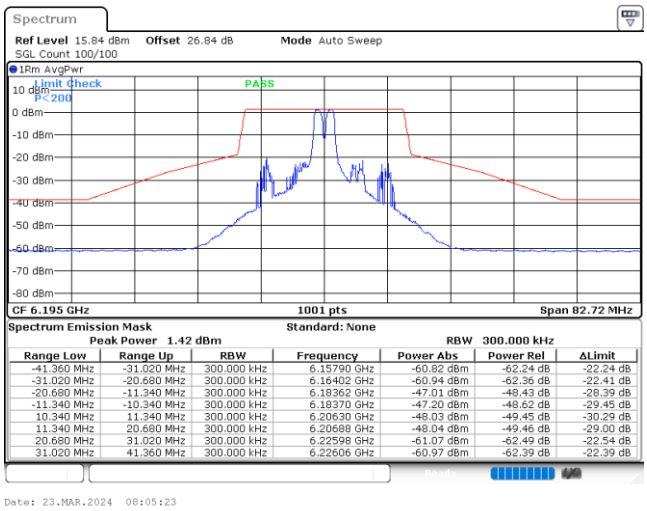
Spectrum Emission Mask Standard: None
Peak Power 1.96 dBm RBW 300.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.424 MHz	-31.068 MHz	300.000 kHz	6.49411 GHz	-60.47 dBm	-62.44 dB	-22.44 dB
-31.068 MHz	-20.712 MHz	300.000 kHz	6.50406 GHz	-60.58 dBm	-62.55 dB	-22.69 dB
-20.712 MHz	-11.356 MHz	300.000 kHz	6.52360 GHz	-33.03 dBm	-34.99 dB	-14.95 dB
-11.356 MHz	-10.356 MHz	300.000 kHz	6.52369 GHz	-32.29 dBm	-34.26 dB	-15.09 dB
10.356 MHz	11.356 MHz	300.000 kHz	6.54631 GHz	-46.44 dBm	-48.40 dB	-29.23 dB
11.356 MHz	20.712 MHz	300.000 kHz	6.54656 GHz	-46.50 dBm	-48.46 dB	-28.29 dB
20.712 MHz	31.068 MHz	300.000 kHz	6.56603 GHz	-60.65 dBm	-62.61 dB	-22.66 dB
31.068 MHz	41.424 MHz	300.000 kHz	6.57017 GHz	-60.59 dBm	-62.55 dB	-22.55 dB

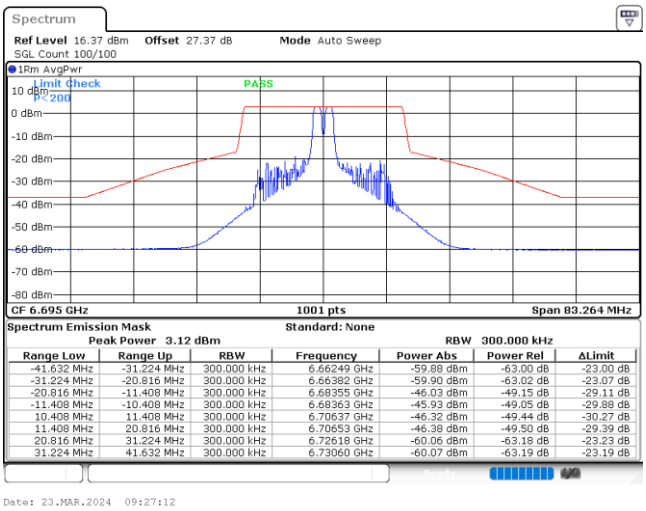
Date: 23.MAR.2024 08:00:32

EUT Mode	802.11ax HE20 26RU4

Plot on Channel 6195 MHz

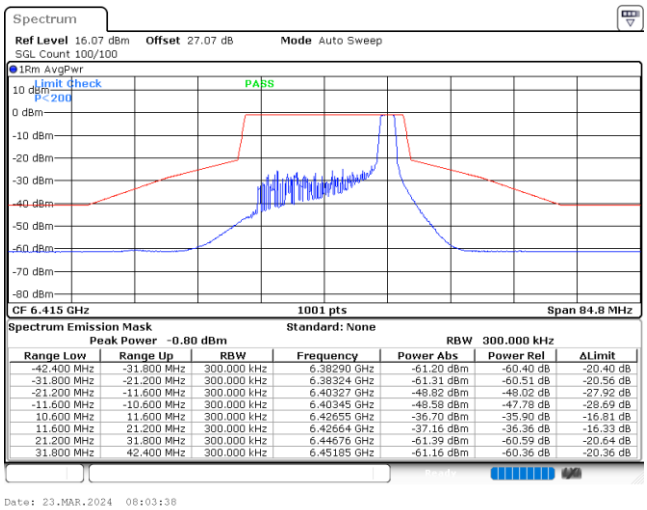


Plot on Channel 6695 MHz

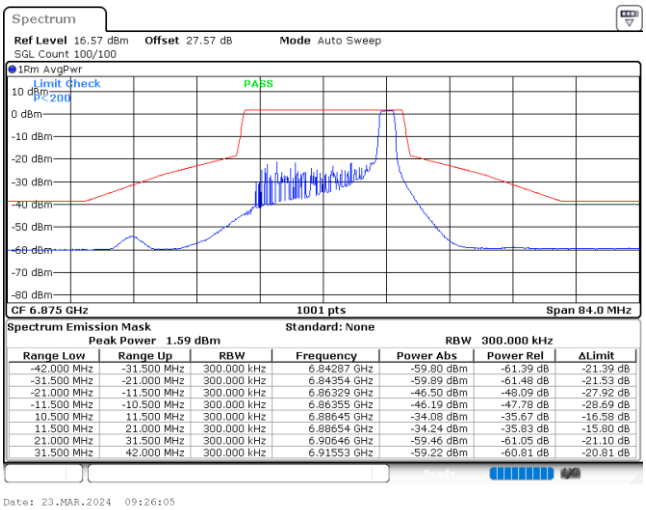


EUT Mode	802.11ax HE20 26RU8

Plot on Channel 6415 MHz

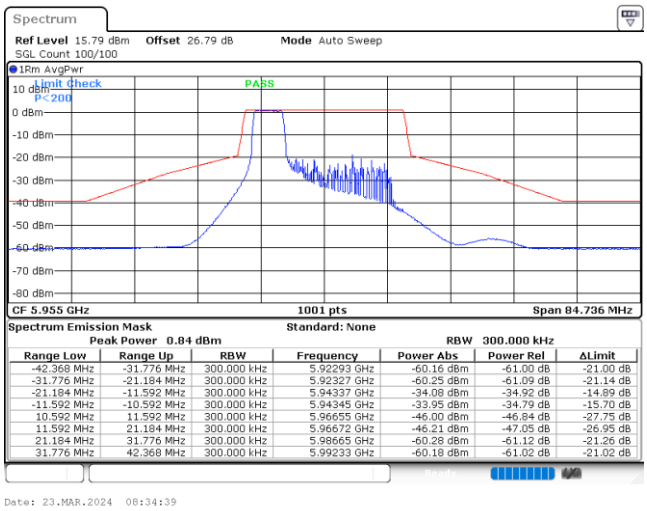


Plot on Channel 6875 MHz



EUT Mode	802.11ax HE20 52RU37

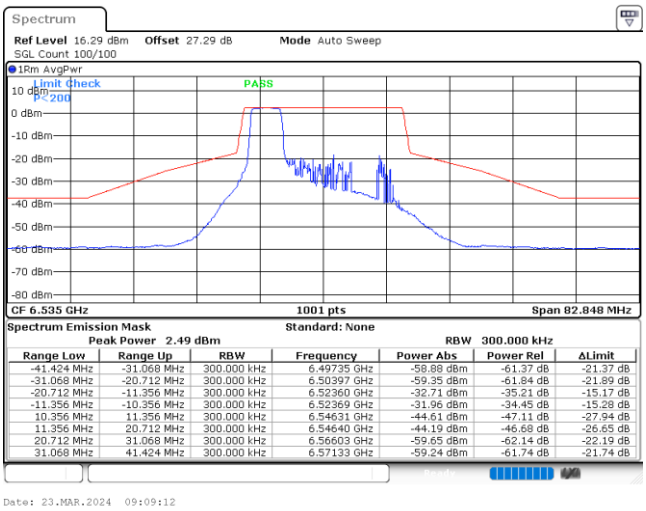
Plot on Channel 5955 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.368 MHz	-31.776 MHz	300.000 kHz	5.92293 GHz	-60.16 dBm	-61.00 dB	-21.00 dB
-31.776 MHz	-21.184 MHz	300.000 kHz	5.92327 GHz	-60.25 dBm	-61.09 dB	-21.14 dB
-21.184 MHz	-11.592 MHz	300.000 kHz	5.94337 GHz	-34.08 dBm	-34.92 dB	-14.89 dB
-11.592 MHz	-10.592 MHz	300.000 kHz	5.94345 GHz	-33.95 dBm	-34.79 dB	-15.70 dB
10.592 MHz	11.592 MHz	300.000 kHz	5.96655 GHz	-46.00 dBm	-46.84 dB	-27.75 dB
11.592 MHz	21.184 MHz	300.000 kHz	5.96672 GHz	-46.21 dBm	-47.05 dB	-26.95 dB
21.184 MHz	31.776 MHz	300.000 kHz	5.98665 GHz	-60.28 dBm	-61.12 dB	-21.26 dB
31.776 MHz	42.368 MHz	300.000 kHz	5.99233 GHz	-60.18 dBm	-61.02 dB	-21.02 dB

Date: 23.MAR.2024 08:34:39

Plot on Channel 6535 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.424 MHz	-31.068 MHz	300.000 kHz	6.49735 GHz	-58.88 dBm	-61.37 dB	-21.37 dB
-31.068 MHz	-20.712 MHz	300.000 kHz	6.50397 GHz	-59.35 dBm	-61.84 dB	-21.89 dB
-20.712 MHz	-11.356 MHz	300.000 kHz	6.52360 GHz	-32.71 dBm	-35.21 dB	-15.17 dB
-11.356 MHz	-10.356 MHz	300.000 kHz	6.52369 GHz	-31.96 dBm	-34.45 dB	-15.28 dB
10.356 MHz	11.356 MHz	300.000 kHz	6.54631 GHz	-44.61 dBm	-47.11 dB	-27.94 dB
11.356 MHz	20.712 MHz	300.000 kHz	6.54640 GHz	-44.19 dBm	-46.68 dB	-26.65 dB
20.712 MHz	31.068 MHz	300.000 kHz	6.56603 GHz	-59.65 dBm	-62.14 dB	-22.19 dB
31.068 MHz	41.424 MHz	300.000 kHz	6.57133 GHz	-59.24 dBm	-61.74 dB	-21.74 dB

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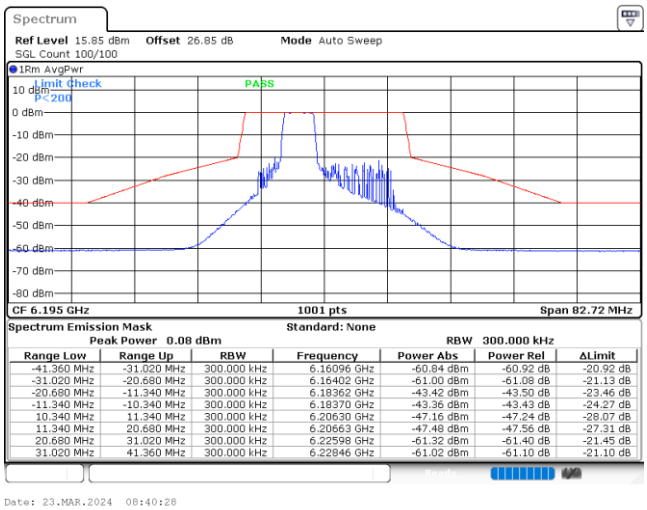
EUT Mode	802.11ax HE20 52RU38

Plot on Channel 6195 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.360 MHz	-31.020 MHz	300.000 kHz	6.16096 GHz	-60.84 dBm	-60.92 dB	-20.92 dB
-31.020 MHz	-20.680 MHz	300.000 kHz	6.16402 GHz	-61.00 dBm	-61.08 dB	-21.13 dB
-20.680 MHz	-11.340 MHz	300.000 kHz	6.18362 GHz	-43.42 dBm	-43.50 dB	-23.46 dB
-11.340 MHz	-10.340 MHz	300.000 kHz	6.18370 GHz	-43.36 dBm	-43.43 dB	-24.27 dB
10.340 MHz	11.340 MHz	300.000 kHz	6.20630 GHz	-47.16 dBm	-47.24 dB	-28.07 dB
11.340 MHz	20.680 MHz	300.000 kHz	6.20663 GHz	-47.48 dBm	-47.56 dB	-27.31 dB
20.680 MHz	31.020 MHz	300.000 kHz	6.22598 GHz	-61.32 dBm	-61.40 dB	-21.45 dB
31.020 MHz	41.360 MHz	300.000 kHz	6.22846 GHz	-61.02 dBm	-61.10 dB	-21.10 dB

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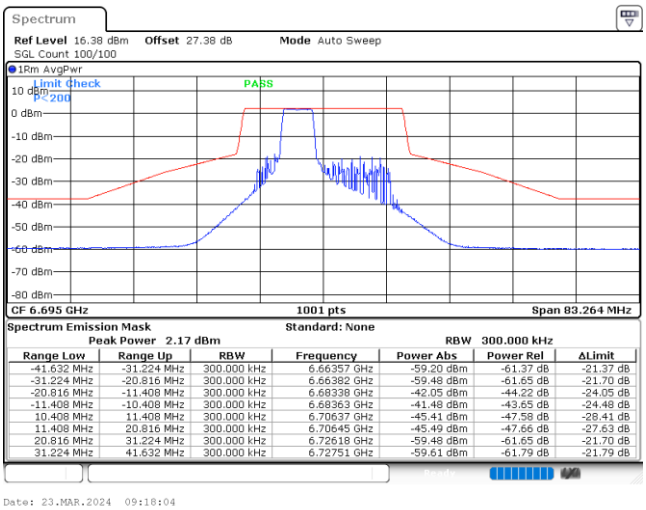
Plot on Channel 6695 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-41.632 MHz	-31.224 MHz	300.000 kHz	6.66357 GHz	-59.20 dBm	-61.37 dB	-21.37 dB
-31.224 MHz	-20.816 MHz	300.000 kHz	6.66382 GHz	-59.48 dBm	-61.65 dB	-21.70 dB
-20.816 MHz	-11.408 MHz	300.000 kHz	6.68338 GHz	-42.05 dBm	-44.22 dB	-24.05 dB
-11.408 MHz	-10.408 MHz	300.000 kHz	6.68363 GHz	-41.48 dBm	-43.65 dB	-24.48 dB
10.408 MHz	11.408 MHz	300.000 kHz	6.70637 GHz	-45.41 dBm	-47.58 dB	-28.41 dB
11.408 MHz	20.816 MHz	300.000 kHz	6.70645 GHz	-45.49 dBm	-47.66 dB	-27.63 dB
20.816 MHz	31.224 MHz	300.000 kHz	6.72618 GHz	-59.48 dBm	-61.65 dB	-21.70 dB
31.224 MHz	41.632 MHz	300.000 kHz	6.72751 GHz	-59.61 dBm	-61.79 dB	-21.79 dB

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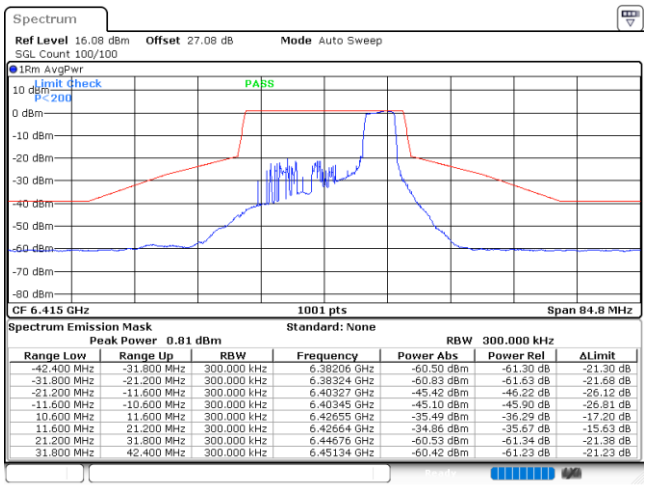
EUT Mode	802.11ax HE20 52RU40

Plot on Channel 6415 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.400 MHz	-31.800 MHz	300.000 kHz	6.38206 GHz	-60.50 dBm	-61.30 dB	-21.30 dB
-31.800 MHz	-21.200 MHz	300.000 kHz	6.38324 GHz	-60.83 dBm	-61.63 dB	-21.68 dB
-21.200 MHz	-11.600 MHz	300.000 kHz	6.40327 GHz	-45.42 dBm	-46.22 dB	-26.12 dB
-11.600 MHz	-10.600 MHz	300.000 kHz	6.40345 GHz	-45.10 dBm	-45.90 dB	-26.81 dB
10.600 MHz	11.600 MHz	300.000 kHz	6.42655 GHz	-35.49 dBm	-36.29 dB	-17.20 dB
11.600 MHz	21.200 MHz	300.000 kHz	6.42664 GHz	-34.86 dBm	-35.67 dB	-15.63 dB
21.200 MHz	31.800 MHz	300.000 kHz	6.44676 GHz	-60.53 dBm	-61.34 dB	-21.38 dB
31.800 MHz	42.400 MHz	300.000 kHz	6.45134 GHz	-60.42 dBm	-61.23 dB	-21.23 dB

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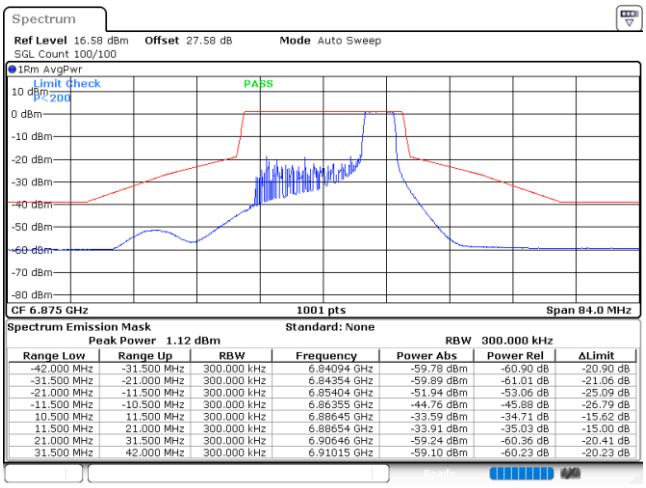
Plot on Channel 6875 MHz



Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-42.000 MHz	-31.500 MHz	300.000 kHz	6.84094 GHz	-59.78 dBm	-60.90 dB	-20.90 dB
-31.500 MHz	-21.000 MHz	300.000 kHz	6.84354 GHz	-59.89 dBm	-61.01 dB	-21.06 dB
-21.000 MHz	-11.500 MHz	300.000 kHz	6.85404 GHz	-51.94 dBm	-53.06 dB	-25.09 dB
-11.500 MHz	-10.500 MHz	300.000 kHz	6.86355 GHz	-44.76 dBm	-45.88 dB	-26.79 dB
10.500 MHz	11.500 MHz	300.000 kHz	6.88645 GHz	-33.59 dBm	-34.71 dB	-15.62 dB
11.500 MHz	21.000 MHz	300.000 kHz	6.88654 GHz	-33.91 dBm	-35.03 dB	-15.00 dB
21.000 MHz	31.500 MHz	300.000 kHz	6.90646 GHz	-59.24 dBm	-60.36 dB	-20.41 dB
31.500 MHz	42.000 MHz	300.000 kHz	6.91015 GHz	-59.10 dBm	-60.23 dB	-20.23 dB

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