



FCC RADIO TEST REPORT

FCC ID	: A4RG8V0U
Equipment	: Phone
Model Name	: G8V0U, GF5KQ
Applicant	: Google LLC 1600 Amphitheatre Parkway, Mountain View, California, 94043 USA
Standard	: FCC Part 15 Subpart E §15.407

The product was received on Jun. 10, 2021 and testing was started from Jun. 22, 2021 and completed on Aug. 24, 2021. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Louis Wu

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



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History of this test report

Report No.	Version	Description	Issued Date
FR121931-04I	01	Initial issue of report	Aug. 13, 2021
FR121931-04I	02	 Add description and test data Add antenna gain section 	Aug. 19, 2021
FR121931-04I	03	 Retest for 26dB, 99% bandwidth and emission mask Revise remark for antenna gain calculation 	Aug. 25, 2021
FR121931-04I	04	 Remove HE20 CH7115 test data Revise description for Radiation Spurious Emission test items 	Sep. 06, 2021
FR121931-04I	05	 Revise description for Radiation Spurious Emission test items Revise Radiated Spurious Emission data 	Sep. 08, 2021



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.403(i) 15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(8)	Maximum Conducted Output Power	Reporting only	-
3.2	15.407(a)(8)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(8)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(6)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	
3.6	15.407(b)	Unwanted Emissions	Pass	Under limit 3.24 dB at 18000.000 MHz
3.7	15.207	AC Conducted Emission	Pass	Under limit 5.28 dB at 0.191 MHz
3.8	15.203 15.407(a)	Antenna Requirement	Pass	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: William Chen

Report Producer: Lucy Wu



1 General Description

1.1 Product Feature of Equipment Under Test

	Product Feature				
Equipment	Phone				
Model Name	G8V0U, GF5KQ				
FCC ID	A4RG8V0U				
EUT supports Radios application	GSM/EGPRS/WCDMA/HSPA/LTE/5G NR/ NFC/GNSS/WPC/WPT/UWB WLAN 11b/g/n HT20 WLAN 11a/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80/VHT160 WLAN 11ax HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE				

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

EUT Information List				
S/N	Performed Test Item			
15281FDEE0002D	Conducted Measurement			
16061FDEE0001Q	Radiated Spurious Emission			
16061FDEE00001	Conducted Emission			
15271FDEE0000D	Contention Based Protocol			



1.2 Product Specification of Equipment Under Test

Product Specific	cation subjective to this standard
	5925 MHz ~ 6425 MHz
	6425 MHz ~ 6525 MHz
Tx/Rx Frequency Range	6525 MHz ~ 6875 MHz
	6875 MHz ~ 7125 MHz
	<5925 MHz ~ 6425 MHz>
	MIMO <ant. 7+3=""></ant.>
	802.11ax HE20: 8.43 dBm / 0.0070 W
	802.11ax HE40: 11.77 dBm / 0.0150 W
	802.11ax HE80: 14.67 dBm / 0.0293 W
	802.11ax HE160: 17.41 dBm / 0.0551 W
	<6425 MHz ~ 6525 MHz>
	MIMO <ant. 7+3=""></ant.>
	802.11ax HE20: 7.73 dBm / 0.0059 W
	802.11ax HE40: 10.01 dBm / 0.0100 W
	802.11ax HE40: 13.66 dBm / 0.0232 W
	802.11ax HE160: 15.97 dBm / 0.0395 W
Maximum Output Power	<6525 MHz ~ 6875 MHz>
	MIMO <ant. 7+3=""></ant.>
	802.11ax HE20: 8.96 dBm / 0.0079 W
	802.11ax HE20: 8.96 dBm / 0.0079 W
	802.11ax HE40. 11.86 dBm / 0.0153 W
	802.11ax HE160: 17.26 dBm / 0.0292 W
	602.11ax HE 160. 17.26 dBill / 0.0532 W 6875 MHz ~ 7125 MHz>
	<0075 MHZ ~ 7125 MHZ> MIMO <ant. 7+3=""></ant.>
	802.11ax HE20: 11.98 dBm / 0.0158 W
	802.11ax HE20. 11.98 dBm / 0.0158 W
	802.11ax HE40: 14.65 dBm / 0.0292 W
	802.11ax HE160: 18.88 dBm / 0.0420 W
	MIMO <ant. 7=""></ant.>
	802.11ax HE20: 19.28 MHz
	802.11ax HE20. 19.26 MHz
	802.11ax HE80: 77.32 MHz
	802.11ax HE160: 17.52 MHz
99% Occupied Bandwidth	
	MIMO <ant. 3=""> 802.11ax HE20: 19.28 MHz</ant.>
	802.11ax HE40: 37.86 MHz
	802.11ax HE80: 77.32 MHz
	802.11ax HE160: 156.80 MHz
	<5925 MHz ~ 6425 MHz>
	<5925 MHz ~ 6425 MHz> <ant. 7="">: Slot Antenna</ant.>
	<ant. 7="">: Siot Antenna <ant. 3="">: IFA Antenna</ant.></ant.>
	<6425 MHz ~ 6525 MHz>
	<ant. 7="">: Slot Antenna <ant. 3="">: IFA Antenna</ant.></ant.>
Antenna Type	<ant. 3="">: IFA Antenna <6525 MHz ~ 6875 MHz></ant.>
	<6525 MHz ~ 6875 MHz> <ant. 7="">: Slot Antenna</ant.>
	<ant. 3="">: IFA Antenna</ant.>
	<6875 MHz ~ 7125 MHz>
	<ant. 7="">: Slot Antenna</ant.>
	<ant. 3="">: IFA Antenna</ant.>

: 05



Product Specific	cation subjective to thi	is standard	
· Antenna Gain	<pre><5925 MHz ~ 6425 M <ant. 7="">: -2.4 dBi <ant. 3="">: -2.0 dBi <6425 MHz ~ 6525 M <ant. 3="">: -1.5 dBi <6525 MHz ~ 6875 M <ant. 7="">: -0.4 dBi <ant. 3="">: -4.0 dBi <6875 MHz ~ 7125 M <ant. 7="">: -2.9 dBi <ant. 3="">: -3.7 dBi</ant.></ant.></ant.></ant.></ant.></ant.></ant.></pre>	Hz> Hz> Hz>	
Type of Modulation	802.11ax : OFDMA (I 256QAM / 1024QAM)		16QAM / 64QAM /
Antenna Function Description	802.11 ax MIMO	Ant. 7 V	Ant. 3 V

Remark:

 MIMO Ant. 7+3 Directional Gain is a calculated result from MIMO Ant. 7 and MIMO Ant. 3. The formula used in calculation is documented in section 3.8.

Power of MIMO Ant. 7 + Ant. 3 is a calculated result from sum of the power MIMO Ant. 7 and MIMO Ant. 3.

2. The above EUT's information was declared by manufacturer. Please refer to Comments and Explanations in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.



1.4 Testing Location

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. CO05-HY, DFS02-HY

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

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
Test Sile No.	TH05-HY, 03CH15-HY (TAF Code: 3786)
Domork	The Conducted and Radiation Spurious Emission test items subcontracted to
Remark	Sporton International Inc. Wensan Laboratory.

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

FCC designation No.: TW1190 and TW3786

1.5 Applicable Standards

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

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

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

DW 20M	Channel	1	5	9	13	17	21	25	29
BW 20M	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095
BW 40M	Channel	3	3	11		19		27	
	Freq. (MHz)	59	65	6005		6045		6085	
BW 80M	Channel	7				23			
DVV OUIVI	Freq. (MHz)		59	85			60	65	
BW 160M	Channel				1	5			
BW TOON	Freq. (MHz)		6025						
	Channel	33	37	41	45	49	53	57	61
		00	01		-	-			•.
BW 20M	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255
	Freq. (MHz) Channel	6115		6155		6195		6235	
BW 20M BW 40M		6115 3	6135	6155 4	6175	6195 5	6215	6235 5	6255
BW 40M	Channel	6115 3	6135 5 25	6155 4	6175 3	6195 5	6215 51 205	6235 5	6255 9
	Channel Freq. (MHz)	6115 3	6135 5 25 3	6155 4 61	6175 3	6195 5	6215 51 205 5	6235 5 62	6255 9
BW 40M	Channel Freq. (MHz) Channel	6115 3	6135 5 25 3	6155 4 61	6175 3	6195 5 62	6215 51 205 5	6235 5 62	6255 9



	Channel	65	69	73	77	81	85	89	93		
BW 20M	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415		
	Channel	67		75		83		91			
BW 40M	Freq. (MHz)	62			6325		6365		6405		
	Channel		7				87				
BW 80M	Freq. (MHz)		63	05				6385			
	Channel		79								
BW 160M	Freq. (MHz)	6345									
	,		101	107	(00			101	407		
BW 20M	Channel	97	101	105	109	113	117	121	125		
	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575		
BW 40M	Channel	9			07		15	12			
	Freq. (MHz)	64	45	64	85	65	25	65	65		
BW 80M	Channel		1()3			11	19			
	Freq. (MHz)		64	65			65	45			
BW 160M	Channel	111									
Bir room	Freq. (MHz)	6505									
BW 20M	Channel	129	133	137	141	145	149	153	157		
	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735		
BW 40M	Channel	131		13	39	147		15	55		
	Freq. (MHz)	6605		6645		6685		6725			
BW 80M	Channel	135				151					
	onamer		13	50			10	, ,			
	Freq. (MHz)		13 66				67				
					14	13					
BW 160M	Freq. (MHz)				14 66						
BW 160M	Freq. (MHz) Channel	161							189		
	Freq. (MHz) Channel Freq. (MHz)	161 6755	66	25	66	65	67	05	189 6895		
BW 160M BW 20M	Freq. (MHz) Channel Freq. (MHz) Channel	6755	66 165	25 169 6795	66 173	65 177 6835	67 181	05 185	6895		
BW 160M	Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz)	6755	66 165 6775 53	25 169 6795 17	66 173 6815	65 177 6835 17	67 181 6855	05 185 6875 18	6895		
BW 160M BW 20M BW 40M	Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel	6755 16	66 165 6775 53 65	25 169 6795 17	66 173 6815 71	65 177 6835 17	67 181 6855 79	05 185 6875 18 68	6895 37		
BW 160M BW 20M	Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz)	6755 16	66 165 6775 65 16	25 169 6795 17 68	66 173 6815 71	65 177 6835 17	67 181 6855 79 45	05 185 6875 18 68 33	6895 37		
BW 160M BW 20M BW 40M	Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel Freq. (MHz) Channel	6755 16	66 165 6775 65 16	25 169 6795 17 68 67	66 173 6815 71	65 177 6835 17 68	67 181 6855 79 45 18	05 185 6875 18 68 33	6895 37		



BW 20M	Channel	193	197	201	205	209	213	217	221	
	Freq. (MHz)	6915	6935	6955	6975	6995	7015	7035	7055	
BW 40M	Channel	19	95	20	03	211 219			19	
	Freq. (MHz)	69	25	69	65	7005		7045		
BW 80M	Channel		19	99			2	15		
D VV OUIVI	Freq. (MHz)		69	45		7025				
BW 160M	Channel				20	07				
BAA LOOIAL	Freq. (MHz)				69	985				
BW 20M	Channel		22	25		229				
	Freq. (MHz)		70	75		7095				
BW 40M	Channel				22	27				
D V 40 W	Freq. (MHz)				70	7085				

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.

Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0
802.11ax HE160	MCS0

	Test Cases
AC	Mode 1: WLAN (6GHz) Link + Bluetooth Link + USB Cable 1 (Charging from AC
Conducted	
Emission	Adapter 2)
Remark:	
1. For Radi	iated Test Cases, the tests were performed with Adapter 2 and USB Cable 1.
•	ne preliminary test, both charging modes (Adapter mode and WPC Charging mode) ified. It is determined that the adaptor mode is the worst case for official test.



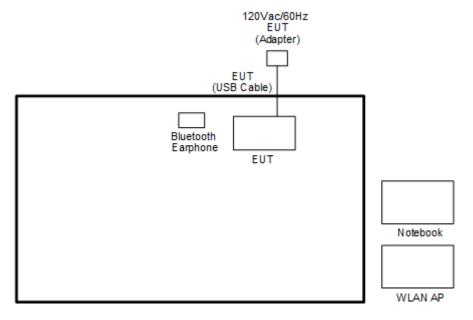
	Ch. #	UNII-5 (5925-6425 MHz) 802.11ax HE20	UNII-6 (6425-6525 MHz) 802.11ax HE20	UNII-7 (6525-6875 MHz) 802.11ax HE20	UNII-8 (6875-7125 MHz) 802.11ax HE20
	Low	001		117	
	Low		097		189
Μ	Middle	049	105	149	209
н	High	093	113	181	229
	Straddle	-	-	185	-
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40
L	Low	003	099	123	195
М	Middle	051	-	147	211
Н	High	091	107	179	227
ę	Straddle	-	115	187	-
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
	Ch. #				
L	Ch. # Low	(5925-6425 MHz)	(6425-6525 MHz)	(6525-6875 MHz)	(6875-7125 MHz)
L		(5925-6425 MHz) 802.11ax HE80	(6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE80	(6875-7125 MHz) 802.11ax HE80
	Low	(5925-6425 MHz) 802.11ax HE80 007	(6425-6525 MHz) 802.11ax HE80	(6525-6875 MHz) 802.11ax HE80 135	(6875-7125 MHz) 802.11ax HE80
M H	Low Middle	(5925-6425 MHz) 802.11ax HE80 007 055	(6425-6525 MHz) 802.11ax HE80	(6525-6875 MHz) 802.11ax HE80 135 151	(6875-7125 MHz) 802.11ax HE80 199 -
M H	Low Middle High	(5925-6425 MHz) 802.11ax HE80 007 055 087 - UNII-5 (5925-6425 MHz)	(6425-6525 MHz) 802.11ax HE80 103 119 UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE80 135 151 167 183 UNII-7 (6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE80 199 - 215 - UNII-8 (6875-7125 MHz)
M H	Low Middle High Straddle Ch. #	(5925-6425 MHz) 802.11ax HE80 007 055 087 - UNII-5 (5925-6425 MHz) 802.11ax HE160	(6425-6525 MHz) 802.11ax HE80 103 119 UNII-6	(6525-6875 MHz) 802.11ax HE80 135 151 167 183 UNII-7	(6875-7125 MHz) 802.11ax HE80 199 - 215 - UNII-8
M H	Low Middle High Straddle	(5925-6425 MHz) 802.11ax HE80 007 055 087 - UNII-5 (5925-6425 MHz) 802.11ax HE160 015	(6425-6525 MHz) 802.11ax HE80 103 119 UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE80 135 151 167 183 UNII-7 (6525-6875 MHz) 802.11ax HE160	(6875-7125 MHz) 802.11ax HE80 199 - 215 - 215 - (6875-7125 MHz) 802.11ax HE160
M H	Low Middle High Straddle Ch. #	(5925-6425 MHz) 802.11ax HE80 007 055 087 - UNII-5 (5925-6425 MHz) 802.11ax HE160	(6425-6525 MHz) 802.11ax HE80 103 119 UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE80 135 151 167 183 UNII-7 (6525-6875 MHz)	(6875-7125 MHz) 802.11ax HE80 199 - 215 - UNII-8 (6875-7125 MHz)
H E	Low Middle High Straddle Ch. # Low	(5925-6425 MHz) 802.11ax HE80 007 055 087 - UNII-5 (5925-6425 MHz) 802.11ax HE160 015	(6425-6525 MHz) 802.11ax HE80 103 119 UNII-6 (6425-6525 MHz)	(6525-6875 MHz) 802.11ax HE80 135 151 167 183 UNII-7 (6525-6875 MHz) 802.11ax HE160	(6875-7125 MHz) 802.11ax HE80 199 - 215 - 215 - (6875-7125 MHz) 802.11ax HE160

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

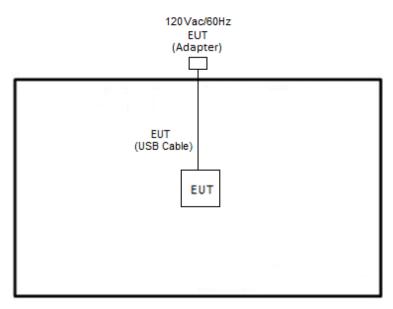


2.3 Connection Diagram of Test System

<AC Conducted Emission Mode>



<WLAN Tx Mode>





2.4 Support Unit used in test configuration and system	2.4	Support Unit	used in test	configuration	and system
--	-----	---------------------	--------------	---------------	------------

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Bluetooth Earphone	Google	G1007, G1008	A4RG1008 A4RG1007	N/A	N/A
2.	WLAN AP	ASUS	GT-AXE11000	MSQ-RTAXJF00	N/A	Unshielded, 1.8 m
3.	Notebook	DELL	Latitude E3480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m

2.5 EUT Operation Test Setup

The RF test items, utility "adb command 1.0.36" 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.

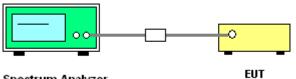
3.1.2 Measuring Instruments

See list of measuring equipment of this test report.

3.1.3 Test Procedures

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

3.1.4 Test Setup



Spectrum Analyzer

3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



For 802.11ax HE 20 MHz

	N	Maximu	um 2	26dE	B Ban	dwid	th		
Spectrum									
Ref Level 30.00 dB	m Offset 2	26.30 dB 👄	RBW 3	300 kHz					L v
Att 20 0	IB SWT	1 ms 👄	VBW	1 MHz	Mode	Sweep			
1Pk View		1			M	1[1]			-29.05 dBm
						111			38500 GHz
20 dBm					D:	2[1]		2	1.16 dB 2.1000 MHz
10 dBm									
10 0811									
0 dBm									
D1 -3.460	dBm	mound	mour	When we	mohamistala	moundary	N I		
-10 dBm		/					}		
		Į –							
-20 dBm							1.		
-30 dBm	29.460 dBm						02		
manuman	manunghter						Mennow	homeolypoh	and the even
-40 dBm								-	
-50 dBm									
-60 dBm									
-00 UBIII									
CF 6.515 GHz				1001 pt	LS .	Measu		spar	1 50.0 MHz
	Maxir	num 99	9% (Осси	upiec	l Bano	dwidth		
		num 99	9% (Оссі	upiec	l Bano	dwidth		Ē
Spectrum Ref Level 20.00 dB	Maxir	26.10 dB 👄	RBW 3	300 kHz			dwidth		(E) V
Spectrum Ref Level 20.00 dB	Maxir		RBW 3		Mode	Sweep	dwidth		
Spectrum Ref Level 20.00 dB	Maxir	26.10 dB 👄	RBW 3	300 kHz	Mode		dwidth	6.4	-3.34 dBm
Spectrum Ref Level 20.00 dB Att 20 d 15a Max	Maxir	26.10 dB 👄	RBW 3	300 kHz	Mode	Sweep	dwidth		-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max	Maxir	26.10 dB 👄	RBW 3	300 kHz	Mode	Sweep	dwidth		-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 dB Att 20 dB 15a Max 10 dBm 0 dBm	Maxir	26.10 dB 👄	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw			-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 db Att 20 db 15a Max 10 dBm -10 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw			-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 db Att 20 db 15a Max 10 dBm -10 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw			-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 db Att 20 db 15a Max 10 dBm -10 dBm -20 dBm -30 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max 10 dBm -10 dBm -20 dBm -30 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max 10 dBm -10 dBm -20 dBm -30 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 10 dBm -10 dBm -20 dBm -30 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 10 dBm 0 -10 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max 10 dBm 0 dBm -10 dBm -30 dBm -30 dBm -60 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Maxir	26.10 dB • 1 ms •	RBW 3	300 kHz 1 MHz	Mode	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 10 dBm	Maxir	26.10 dB • 1 ms •	RBW :	300 kHz 1 MHz	Mode M 	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 d 15a Max 10 dBm 0 dBm -10 dBm -30 dBm -40 dBm -50 dBm	Maxir	26.10 dB • 1 ms •	RBW :	300 kHz 1 MHz	Mode M 	Sweep 1[1] cc Bw		19.2807	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 10 dBm 0 -10 dBm	Maxir	26.10 dB • 1 ms •	RBW :	300 kHz 1 MHz	Mode M 	Sweep 1[1] CC BW M1 ship-langed		19.2807	50.0 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 15a Max 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -60 dBm -70 dBm	Maxir	26.10 dB • 1 ms •	RBW : VBW 	300 kHz 1 MHz 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mode M o co s co s co s co s co s co s co s	Sweep 1[1] CC BW M1 ship-langed		19.2807 پېښامېرې Spar	-3.34 dBm 216930 GHz 19281 MHz
Spectrum Ref Level 20.00 dB 115a Max 20.00 dB 10 dBm 0 -10 dBm	Maxir m Offset : B SWT	26.10 dB • 1 ms	RBW : VBW 	300 kHz 1 MHz 44444 444 1001 pt 1001 pt	Mode M o co s co s co s co s co s co s co s	Sweep 1[1] 600 Bw M1 4019 4019 4019 4019 4019 4019 4019 401		19.2807 پېښامېرې Spar	-3.34 dBm 216930 GHz /19281 MHz
Spectrum Ref Level 20.00 dB Att 20 dB 15 a Max 10 dBm 0 dBm	Maxin	26.10 dB • 1 ms	RBW : VBW 	300 kHz 1 MHz 1 MHz 1001 pH 1001 pH 1001 pH 1001 pH 1005 gd Bm	Mode M o co s co s co s co s co s co s co s	Sweep 1[1] 600 Bw M1 4019 4019 4019 4019 4019 4019 4019 401	Fun	19.2807 پېښامېرې Spar	-3.34 dBm 216930 GHz 19281 MHz

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



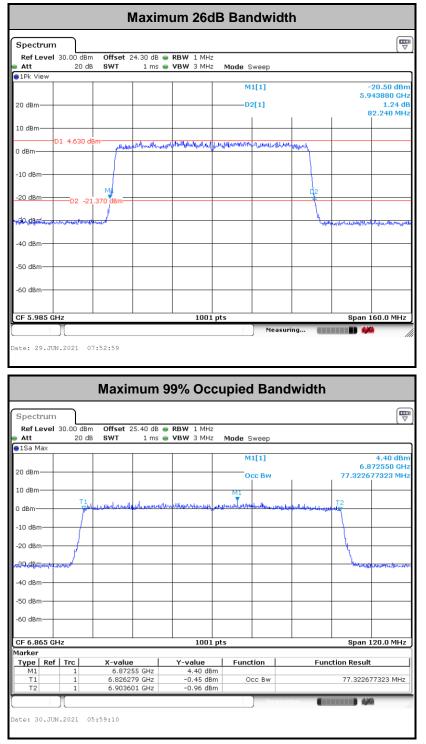
For 802.11ax HE 40 MHz

Spectrum Ref Level 30.00 dBm Offset 26.30 dB RBW 300 kHz Att 20 dB SWT 1 ms VBW 1 MHz Mode Sweep IPk View	-30.29 dBn 6.5049300 GH 0.13 dE 40.3200 MH
Ref Level 30.00 dBm Offset 26.30 dB RBW 300 kHz Att 20 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk View	-30.29 dBn 6.5049300 GH; 0.13 dE
1Pk View	6.5049300 GH: 0.13 dE
20 dBm D2[1]	6.5049300 GH: 0.13 dE
20 dBm	6.5049300 GH: 0.13 dE
10 dBm	
0 dBm	
D1 -4.510 dBm dummenter with rulling and the	
-10 dBm	<u> </u>
-20 dBm	
-30 d8m	
	undredown the bulger of
-40 dBm	
-50 dBm	<u> </u>
-60 dBm	<u> </u>
CF 6.525 GHz 1001 pts	Span 90.0 MHz
Maximum 99% Occupied Bandwidth	
Spectrum	
Ref Level 30.00 dBm Offset 25.40 dB 👄 RBW 1 MHz	(`
Att 20 dB SWT 1 ms VBW 3 MHz Mode Sweep	
1Sa Max	3.91 dBn
1Sa Max 1Sa Max 1Sa Max 1Sa Max 1Sa Max	3.91 dBn 6.9185100 GH
1Sa Max M1[1] 20 dBm Occ Bw	
1Sa Max M1[1] 20 dBm Occ Bw 10 dBm M1	6.9185100 GH
1Sa Max	6.9185100 GH
ISa Max MI[1] 20 dBm Occ Bw 10 dBm MI 0 dBm Fillershielderswith under miter weister biologies	6.9185100 GH
1Sa Max 10 dBm 10 dB	6.9185100 GH
ISa Max MI[1] 20 dBm Occ Bw 10 dBm MI 0 dBm Fillershielderswith under miter weister biologies	6.9185100 GH
ISa Max M1[1] 20 dBm Occ Bw 10 dBm M1 -10 dBm V	6.9185100 GH 37.962037962 MH
15a Max M1[1] 20 dBm Occ Bw 10 dBm 0 0 dBm M1 -10 dBm - -20 dBm - -20 dBm -	6.9185100 GH 37.962037962 MH
15a Max	6.9185100 GH 37.962037962 MH
ISa Max	6.9185100 GH 37.962037962 MH
15a Max	6.9185100 GH 37.962037962 MH
15a Max	6.9185100 GH 37.962037962 MH
ISa Max M1[1] 20 dBm Occ Bw 10 dBm Occ Bw 0 dBm M1 -10 dBm	6.9185100 GH 37.962037962 MH
15a Max M1[1] 20 dBm Occ Bw 10 dBm Occ Bw 0 dBm M1 0 dBm M1 -10 dBm M1 -20 dBm M1 -30 dBm M1 -60 dBm M1 -60 dBm 1001 pts	6.9185100 GH; 37.962037962 MH;
15a Max M1[1] 20 dBm Occ Bw 10 dBm Occ Bw 0 dBm M1 -10 dBm M1 -20 dBm	6.9185100 GH: 37.962037962 MH:
ISa Max M1[1] 20 dBm Occ Bw 10 dBm Occ Bw 0 dBm Image: Second	6.9185100 GH; 37.962037962 MH;
11Sa Max M1[1] 20 dBm Occ Bw 10 dBm Occ Bw 0 dBm M1 0 dBm M1 -10 dBm M1 -20 dBm M1 -50 dBm M1 -60 dBm M1 -60 dBm M1 1 6.91851 GHz -3.91 dBm M1 1 6.943981 GHz -3.00 dBm Occ Bw	6.9185100 GH: 37.962037962 MH:

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



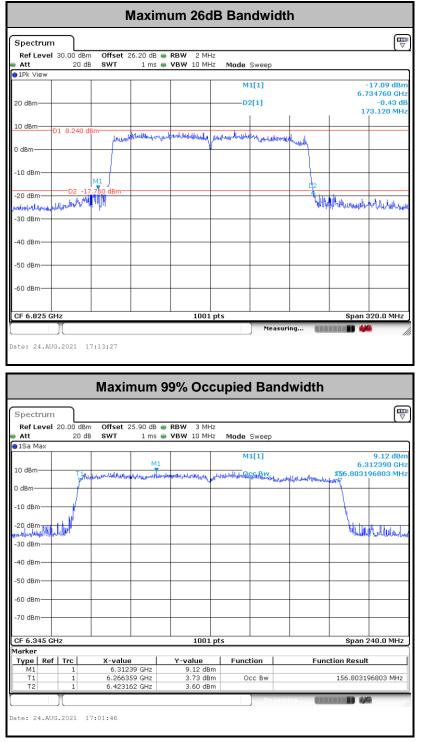
For 802.11ax HE 80 MHz



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



For 802.11ax HE 160 MHz



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

3.2 Maximum conducted Output Power and Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

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

3.2.2 Measuring Instruments

See list of measuring equipment of this test report.

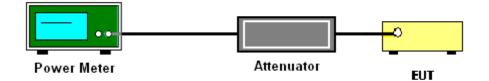
3.2.3 Test Procedures

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.

3.2.4 Test Setup



3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



3.3 Fundamental Power Spectral Density Measurement

3.3.1 Limit of Fundamental Power Spectral Density

<FCC 14-30 CFR 15.407>

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

3.3.2 Measuring Instruments

See list of measuring equipment of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-3

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

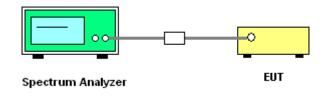
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which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

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

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



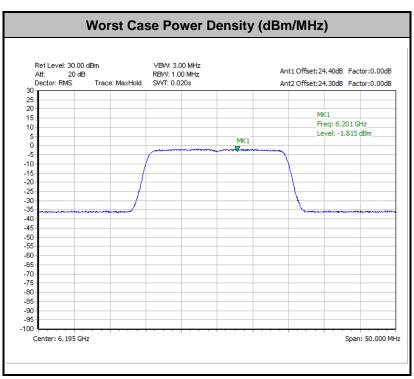
3.3.4 Test Setup



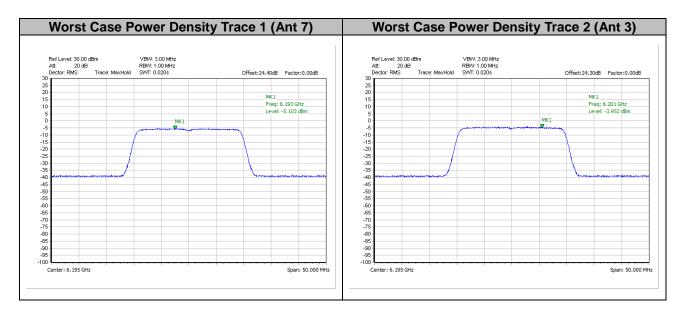
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





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





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

See list of measuring equipment of this test report.



3.4.3 Test Procedures

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

Section J) In-Band Emissions.

- 1. Take nominal bandwidth as reference channel bandwidth provided that 26 dB emission bandwidth is always larger than nominal bandwidth
- 2. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.

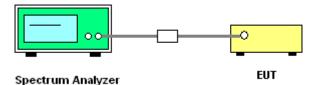
b) Set RBW = same RBW used for 26 dB EBW measurement (1MHz for all supported bandwidth).

c) Set VBW ≥ 3 X RBW

d) Number of points in sweep \geq [2 X span / RBW].

- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging)
- g) Trace average at least 100 traces in power averaging (rms) mode.
- h) Use the peak search function on the instrument to find the peak of the spectrum.
- 3. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - a. Suppressed by 20 dB at 1 MHz outside of the channel edge.
 - b. Suppressed by 28 dB at one channel bandwidth from the channel center.
 - c. Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- 4. Adjust the span to encompass the entire mask as necessary.
- 5. Clear trace.
- 6. Trace average at least 100 traces in power averaging (rms) mode.
- 7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

3.4.4 Test Setup





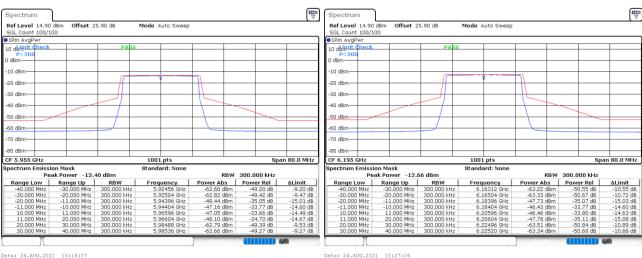
802.11ax HE20

3.4.5 Test Result

MIMO <Ant. 7+3(7)>

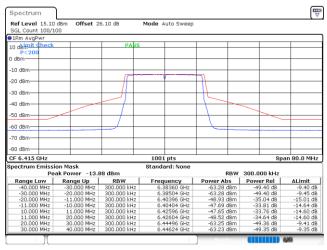


Plot on Channel 5955MHz

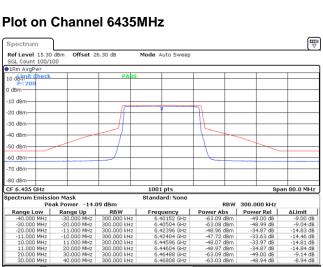


Date: 24.AUG.2021 15:18:57

Plot on Channel 6415MHz



Plot on Channel 6195MHz



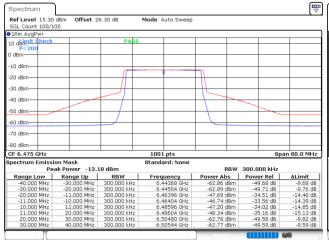
Date: 24.AUG.2021 15:31:36

Date: 24.AUG.2021 15:34:23

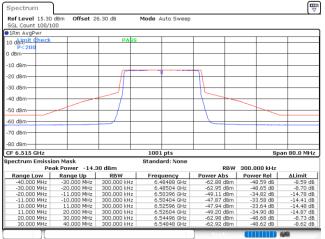
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Plot on Channel 6475MHz



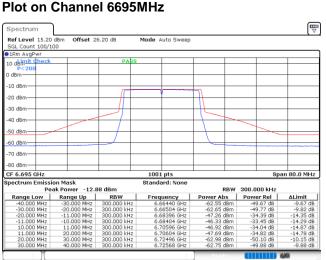
Plot on Channel 6515MHz



Date: 24.AUG.2021 15:37:14

Plot on Channel 6535MHz

₽ Spectrum Ref Level 15.20 dBm Offset 26.20 dB Mode Auto Sweep SGL Count DARS 0 dBm -10 dBm ſſ -20 dBm--30 dBm 40 dBm--50 dBm -60 dBm--70 dBm-80 dBm CF 6.535 GHz 1001 pts Span 80 pectrum Emission Mask Peak Powe -12.54 d 300.000 kH RBW RBW 300.000 kHz Range Low -30.000 MH Frequency Power Abs Power Rel 10.17 dB 10.31 dB 14.74 dB 14.62 dB 14.67 dB 15.16 dB 10.42 dB 10.27 dB .50008 GHz .50512 GHz .52396 GHz .52404 GHz .54596 GHz .54604 GHz .56496 GHz .56544 GHz -50.17 dB -50.17 dB -34.78 dB -33.78 dB -33.83 dB -35.19 dB -50.38 dB -50.27 dB MHz MHz MHz MHz MHz MHz MHz -62 -47 -46 MHZ MHZ MHZ MHZ MHZ MHZ -46 -47 -62 .92 dBm



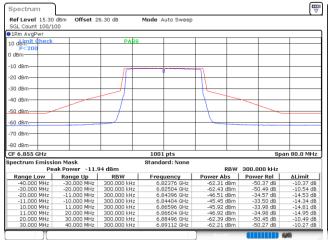
Date: 24.AUG.2021 15:42:49

Date: 24.AUG.2021 15:46:00

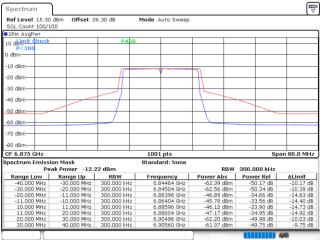
Date: 24.AUG.2021 15:39:53



Plot on Channel 6855MHz



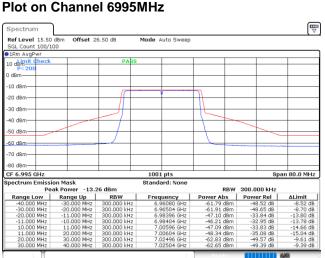
Plot on Channel 6875MHz



Date: 24.AUG.2021 15:49:03

Plot on Channel 6895MHz

₽ Spectrum Ref Level 15.50 dBm Offset 26.50 dB Mode Auto Sweep 1Rm AvgP PASS 10 deinit 0 dBm--10 dBm П -20 dBm--30 dBm 40 dBm-50 dBm -60 dBm--70 dBm-80 dBm Span 80.0 MHz F 6.895 GHz 1001 pts pectrum Emission Mask Peak Powe -12.00 d 300.000 kH: RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Frequency Power Abs Power Rel 5.86496 GHz 5.86512 GHz 5.88396 GHz 5.88404 GHz 5.90596 GHz 5.90506 GHz 5.90604 GHz 5.92496 GHz 5.92512 GHz .18 dBm .24 dBm .42 dBm .58 dBm .94 dBm .35 dBm .87 dBm .71 dBm -50.18 dB -50.24 dB -34.42 dB -33.58 dB -33.94 dB -35.35 dB -49.88 dB -49.71 dB MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz -62 -46 -45 -45 -47 -61 dB dB dB dB dB dB MHZ MHZ MHZ MHZ MHZ MHZ L0.39 .92496 .92512



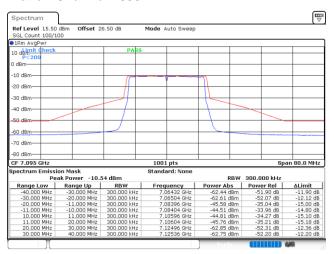
Date: 24.AUG.2021 15:55:22

Date: 24.AUG.2021 15:58:17

Date: 24.AUG.2021 15:51:55



Plot on Channel 7095MHz



Date: 24.AUG.2021 16:00:49

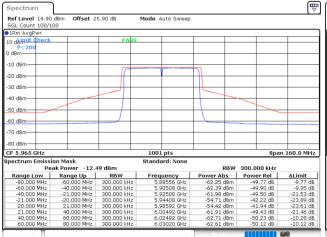




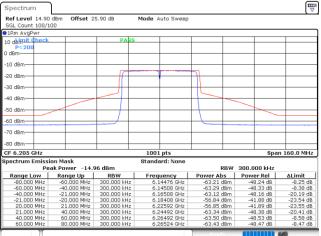
EUT Mode :

802.11ax HE40

Plot on Channel 5965MHz



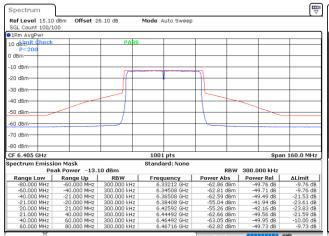
Plot on Channel 6205MHz



Date: 24.AUG.2021 16:06:30

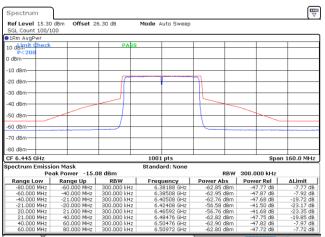
Date: 24.AUG.2021 16:09:27

Plot on Channel 6405MHz



Date: 24.AUG.2021 16:17:02

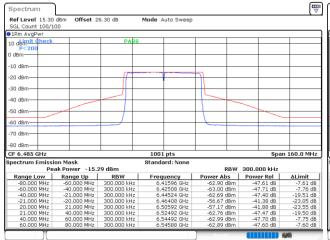
Plot on Channel 6445MHz



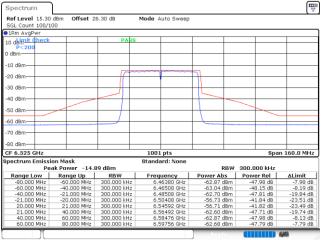
Date: 24.AUG.2021 16:19:25



Plot on Channel 6485MHz



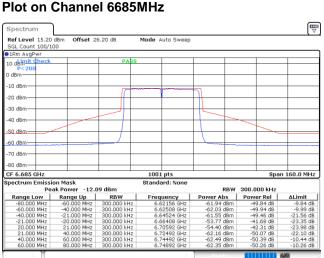
Plot on Channel 6525MHz



Date: 24.AUG.2021 16:21:52

Plot on Channel 6565MHz

₽ Spectrum Ref Level 15.20 dBm Offset 26.20 dB Mode Auto Sweep SGL Count DARS 0 dBm -10 dBm ſſ -20 dBm--30 dBm 40 dBm--50 dBm -60 dBm--70 dBm-80 dBm CF 6.565 GHz 1001 pts Span 160.0 MHz pectrum Emission Mask Peak Powe -13.83 d 300.000 kHz RBW RBW 300.000 kHz Range Low Range Up -60.000 MH Freque ncy Power Abs Power Rel ∆Limit -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz 40.000 MHz 60.000 MHz 5.50188 GHz 5.50508 GHz 5.52540 GHz 5.54408 GHz 5.58592 GHz 5.60492 GHz 5.62492 GHz 5.62860 GHz -48.79 dB -48.86 dB -48.51 dB -41.60 dB -42.01 dB -42.01 dB -48.45 dB -48.80 dB -48.67 dB -8.79 dB -8.91 dB 20.68 dB 23.27 dB 23.68 dB 23.68 dB 20.49 dB -8.84 dB -8.84 dB -8.67 dB -40.000 -21.000 -20.000 .69 dBm .34 dBm .43 dBm .84 dBm .28 dBm MHZ MHZ MHZ MHZ MHZ MHZ 20 21 40 .62 dBm .62492 .62860



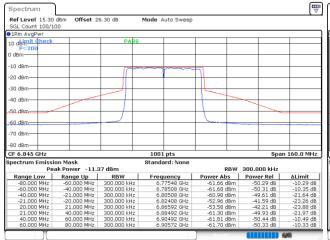
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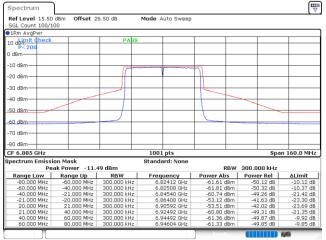
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Plot on Channel 6845MHz



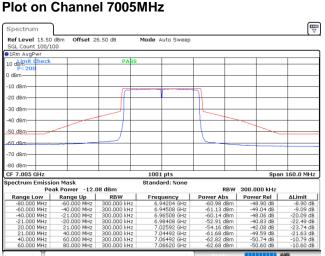
Plot on Channel 6885MHz



Date: 24.AUG.2021 16:32:25

Plot on Channel 6925MHz

₽ Spectrum Ref Level 15.50 dBm Offset 26.50 dB Mode Auto Sweep 1Rm AvgP PASS 10 deinit 0 dBm--10 dBm -20 dBm--30 dBm 40 dBm-50 dBm -60 dBm--70 dBm-80 dBm F 6.925 GHz Span 160.0 MHz 1001 pts pectrum Emission Mask Peak Power -11.07 d 300.000 kHz RBW Row 300.000 kH2 Power Rel -61.52 dbm -61.52 dbm -50.44 dB -61.36 dbm -50.42 dB -60.31 dbm -49.24 dB -52.49 dbm -41.36 dB -52.49 dbm -41.81 dB -60.77 dbm -49.69 db -61.60 dbm -50.52 dB -62.29 dbm -51.22 dB RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low Range Up -60.000 MH Freque ncy Limit -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz 40.000 MHz 60.000 MHz .86204 .86508 .90408 .90408 .94592 .94592 .96492 .98492 .99228 -40.000 -21.000 -20.000 MHZ MHZ MHZ MHZ MHZ MHZ kHz kHz kHz kHz kHz kHz kHz GHZ GHZ GHZ GHZ GHZ GHZ 3 dB 7 dB 2 dB 3 dB 3 dB 7 dB 2 dB 20 21 40



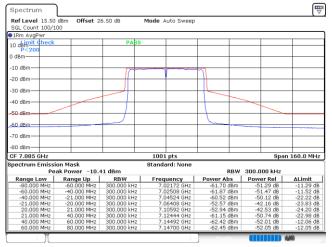
Date: 24.AUG.2021 16:37:09

Date: 24.AUG.2021 16:39:11

Date: 24.AUG.2021 16:34:43



Plot on Channel 7085MHz



Date: 24.AUG.2021 16:41:22

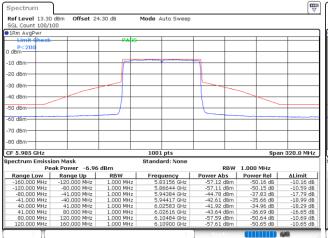




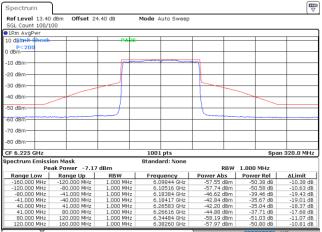
EUT Mode :

802.11ax HE80

Plot on Channel 5985MHz



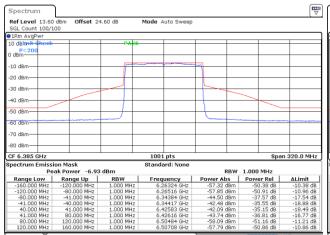
Plot on Channel 6225MHz



Date: 29.JUN.2021 07:53:40

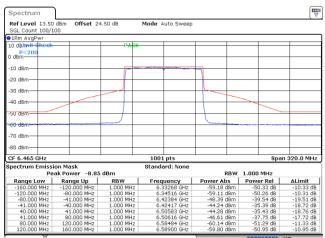
Date: 29.JUN.2021 08:10:44

Plot on Channel 6385MHz



Date: 29.JUN.2021 08:23:07

Plot on Channel 6465MHz



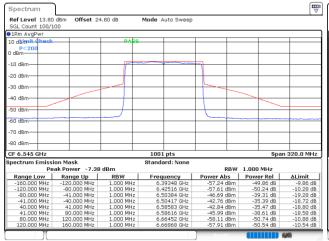
Date: 30.JUN.2021 07:44:48

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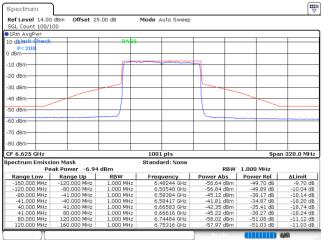
: Sep. 08, 2021



Plot on Channel 6545MHz

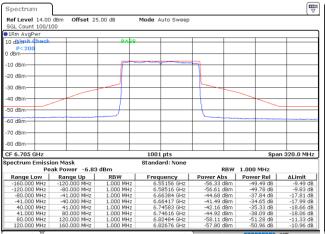


Plot on Channel 6625MHz



Date: 29.JUN.2021 08:43:22

Plot on Channel 6705MHz



Spectrum Ref Level 14.40 dBm Offset 25.40 dB Mode Auto Sweep m AvgP DADO .0 db dB -10 dB 20 dBm -30 dBr 40 dBm 50 dBm 60 dBm -70 dBr -80 dBm CF 6.785 GHz Span 320.0 MHz 1001 pts pectrum Emission Mask Peak Power -7.23 dBm RBW 1.000 MH; Range Low -120.000 MH Freque ncy Power Abs Power Rel ∆Limit .66132 .66548 .74384 .74417 .82583 .82616 .90484 .92244 -56.30 dBm -56.31 dBm -45.68 dBm -41.97 dBm -42.48 dBm -44.05 dBm -57.78 dBm -57.74 dBm -49.07 dB -49.07 dB -38.45 dB -34.74 dB -35.25 dB -36.81 dB -50.55 dB -50.21 dB MH2 MH2 MH2 MH2 MH2 .000.000 MH2 MH2 MH2 MH2 MH2 MH2 MH2) MH2) MH2) MH2) MH2) MH2) MH2 GHz GHz GHz GHz GHz GHz -80 -41 -40 41 80 dB dB dB dB dB dB 000 MH2 MH2

Date: 29.JUN.2021 08:56:50

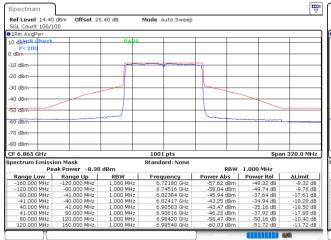
Date: 29.JUN.2021 09:00:15

Date: 29.JUN.2021 08:50:44

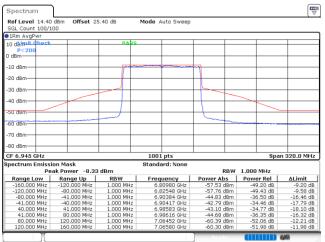
Plot on Channel 6785MHz



Plot on Channel 6865MHz



Plot on Channel 6945MHz



Date: 30.JUN.2021 05:59:36



Plot on Channel 7025MHz

						Į,
Ref Level 14.40 SGL Count 100/1		.40 dB	Mode Auto Sweep			
1Rm AvaPwr						
o daimit dheck		PASS				
P<200						
dBm						
10 dBm						
20 dBm						
20 UBIII						
30 dBm						_
					_	
40 dBm						-
5U dBm						
60 dBm					_	
70 dBm						
80 dBm						
F 7.025 GHz			1001 pts		Spa	n 320.0 MH
oectrum Emissi	on Mask		Standard: None			
Pe	ak Power -8.46	dBm		RBW	1.000 MHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-160.000 MHz	-120.000 MHz	1.000 MHz	6.89268 GHz	-58.06 dBm	-49.60 dB	-9.60 d
-120.000 MHz	-80.000 MHz	1.000 MHz	6.90516 GHz	-58.24 dBm	-49.78 dB	-9.83 d
-80.000 MHz	-41.000 MHz	1.000 MHz	6.98384 GHz	-46.96 dBm	-38.50 dB	-18.47 d
-41.000 MHz	-40.000 MHz	1.000 MHz	6.98417 GHz	-43.71 dBm	-35.25 dB	-18.59 d
40.000 MHz	41.000 MHz	1.000 MHz	7.06583 GHz	-44.03 dBm	-35.57 dB	-18.91 d
41.000 MHz	80.000 MHz	1.000 MHz	7.06616 GHz	-45.14 dBm	-36.68 dB	-16.64 di
	120.000 MHz	1.000 MHz	7.14484 GHz	-60.73 dBm	-52.27 dB	-12.32 di
80.000 MHz			7 45050 000-	-60.38 dBm	-51.92 dB	-11.92 d
120.000 MHz	160.000 MHz	1.000 MHz	7.15252 GHz	-60.38 dBm	-51.92 dB	-11.92 U

Date: 30.JUN.2021 06:06:43

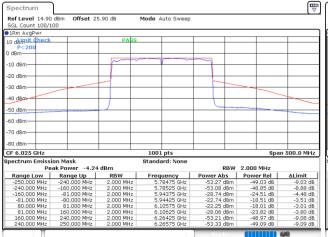




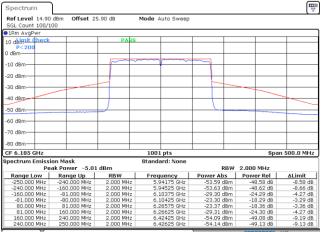
EUT Mode :

802.11ax HE160

Plot on Channel 6025MHz



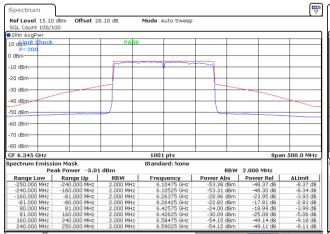
Plot on Channel 6185MHz



Date: 24.AUG.2021 16:54:29

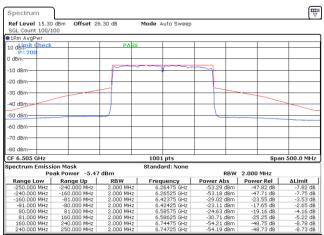
Date: 24.AUG.2021 16:57:56

Plot on Channel 6345MHz



Date: 24.AUG.2021 17:01:12

Plot on Channel 6505MHz

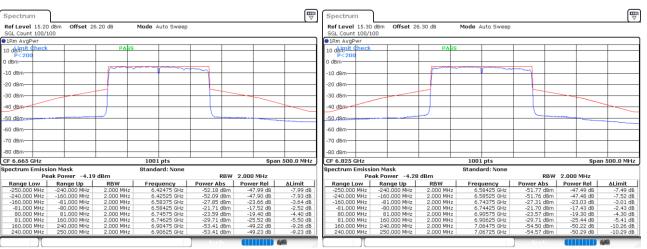


Date: 24.AUG.2021 17:04:31

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Plot on Channel 6665MHz



Date: 24.AUG.2021 17:07:36



Plot on Channel 6825MHz

Plot on Channel 6985MHz

pectrum						
Ref Level 15.50	dBm Offset 26	i.50 dB	Mode Auto Sweep			
GL Count 100/1	00					
1Rm AvgPwr						
o deimit check		PASS				
P<200						
dBm						
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
10 dBm						-
20 dBm						
30 dBm						
						-
40 dBm	- marine and a second					
50 dBm						
50 abili						
50 dBm						
70 dBm						-
30 dBm						
F 6.985 GHz			1001 pts		Spar	n 500.0 MH
pectrum Emissi			Standard: None			
Pe	ak Power -2.96	dBm		RBW	2.000 MHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-250.000 MHz	-240.000 MHz	2.000 MHz	6.74475 GHz	-49.87 dBm	-46.90 dB	-6.90 dE
-240.000 MHz	-160.000 MHz	2.000 MHz	6.74575 GHz	-49.73 dBm	-46.76 dB	-6.88 dE
-160.000 MHz	-81.000 MHz	2.000 MHz	6.90375 GHz	-26.04 dBm	-23.07 dB	-3.05 dE
-81.000 MHz	-80.000 MHz	2.000 MHz	6.90425 GHz	-20.34 dBm	-17.38 dB	-2.38 di
	81.000 MHz	2.000 MHz	7.06575 GHz	-23.17 dBm	-20.21 dB	-5.21 di
80.000 MHz		2.000 MHz	7.06625 GHz	-28.41 dBm	-25.44 dB	-5.42 dE
	160.000 MHz					
80.000 MHz	240.000 MHz	2.000 MHz	7.22425 GHz	-51.13 dBm	-48.17 dB	-8.28 dt
80.000 MHz 81.000 MHz			7.22425 GHz 7.22575 GHz	-51.13 dBm -51.37 dBm	-48.17 dB -48.40 dB	-8.28 dE -8.40 dE

Date: 24.AUG.2021 17:19:49

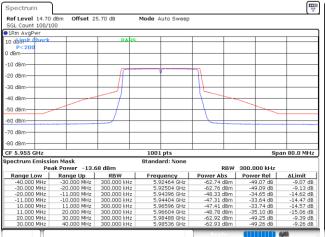


#### MIMO <Ant. 7+3(3)>

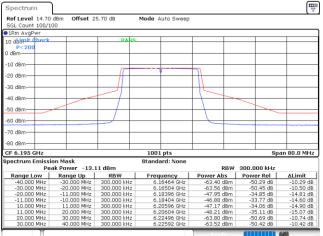
EUT Mode :

802.11ax HE20

#### Plot on Channel 5955MHz



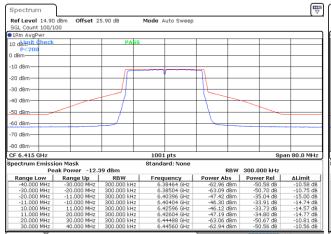
#### Plot on Channel 6195MHz



Date: 24.AUG.2021 15:22:23

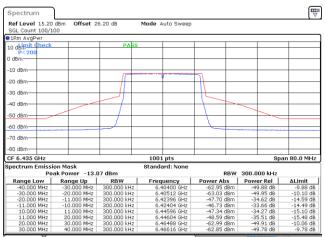
Date: 24.AUG.2021 15:29:49

#### Plot on Channel 6415MHz



Date: 24.AUG.2021 15:32:43

#### Plot on Channel 6435MHz

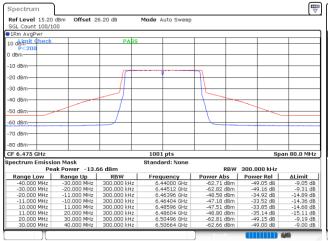


Date: 24.AUG.2021 15:35:22

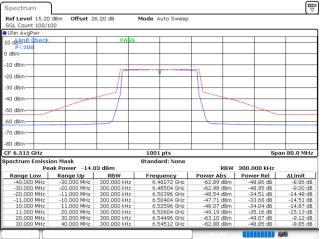
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#### Plot on Channel 6475MHz



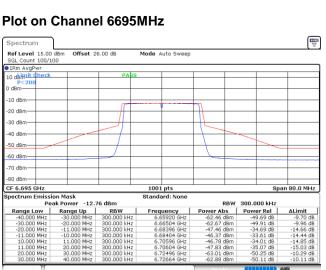
#### Plot on Channel 6515MHz



Date: 24.AUG.2021 15:38:17

#### Plot on Channel 6535MHz

#### ₽ Spectrum Spectrum Ref Level 15.00 dBm Offset 26.00 dB Mode Auto Sweep SGL Count DARS ) dBr -10 dBm ſſ -20 dBm--30 dBm 40 dBm--50 dBm -60 dBm--70 dBm-80 dBm CF 6.535 GHz 1001 pts Span 80.0 MHz pectrum Emission Mask Peak Powe -13.12 di 300.000 kH RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low -30.000 MH Frequency -62.67 dBm -49.55 dB <u>∆Limit</u> .50448 GHz .50504 GHz .52396 GHz .52404 GHz .54596 GHz .54604 GHz .56480 GHz .56888 GHz -49.55 dB -49.68 dB -34.28 dB -34.28 dB -34.07 dB -34.07 dB -49.77 dB -49.70 dB -9.55 dB -9.73 dB -14.25 dB -14.20 dB -14.90 dB -14.92 dB -14.92 dB -10.01 dB -9.70 dB -62.80 dBm -47.40 dBm -46.49 dBm -47.19 dBm -48.08 dBm MHz MHz MHz MHz MHz MHz MHz kHz kHz kHz kHz kHz kHz MHZ MHZ MHZ MHZ MHZ MHZ -62.89 dBm -62.82 dBm



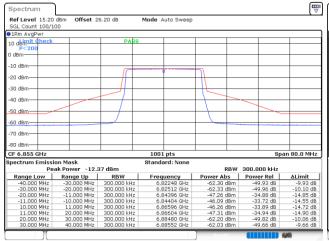
Date: 24.AUG.2021 15:43:53

Date: 24.AUG.2021 15:47:05

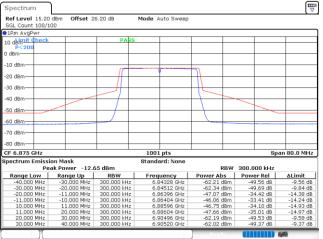
Date: 24.AUG.2021 15:40:51



#### Plot on Channel 6855MHz



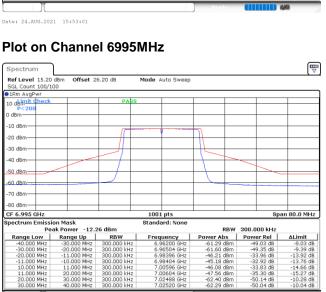
#### Plot on Channel 6875MHz



Date: 24.AUG.2021 15:50:04

#### Plot on Channel 6895MHz

#### ₽ Spectrum Ref Level 15.20 dBm Offset 26.20 dB Mode Auto Sweep SGL Count 0 dBm ) dBm -10 dBm -20 dBm -30 dBm 40 dBm-50 dBm--60 dBm--70 dBm-80 dBm CF 6.895 GHz 1001 pts Span 80.0 MHz pectrum Emission Mask Peak Powe -11.79 d 300.000 kHz RBW RBW 300.000 kHz Range Low -30.000 MH Frequency Power Abs Power Rel ∆Limit 5.86456 GHz 5.86520 GHz 5.88396 GHz 5.88404 GHz 5.90596 GHz 5.90504 GHz 5.90604 GHz 5.92480 GHz 5.92720 GHz -01.76 dBm -61.91 dBm -46.77 dBm -45.33 dBm -45.73 dBm -49.97 dB -50.12 dB -34.98 dB -33.54 dB -33.94 dB -34.99 dB -49.82 dB -49.82 dB -9.97 dB -10.36 dB -14.94 dB -14.38 dB -14.38 dB -14.78 dB -14.96 dB -14.96 dB -10.06 dB -9.75 dB MHz -61.61 dBm -61.54 dBm .92480 .92720

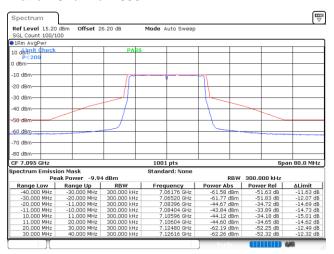


Date: 24.AUG.2021 15:56:21

Date: 24.AUG.2021 15:59:15



#### Plot on Channel 7095MHz



Date: 24.AUG.2021 16:01:51

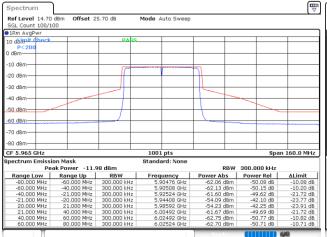




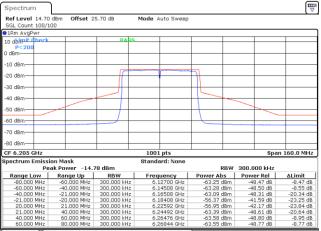
EUT Mode :

802.11ax HE40

#### Plot on Channel 5965MHz



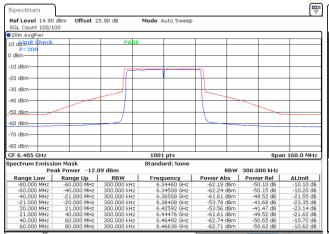
#### Plot on Channel 6205MHz



Date: 24.AUG.2021 16:07:13

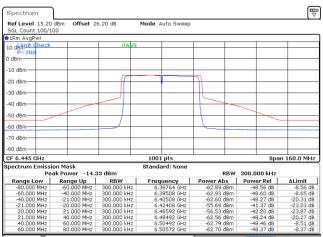
Date: 24.AUG.2021 16:11:26

#### Plot on Channel 6405MHz



Date: 24.AUG.2021 16:17:50

#### Plot on Channel 6445MHz

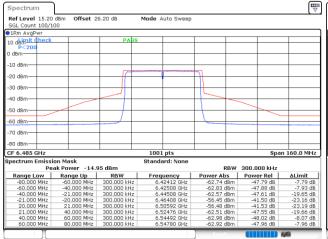


Date: 24.AUG.2021 16:20:09

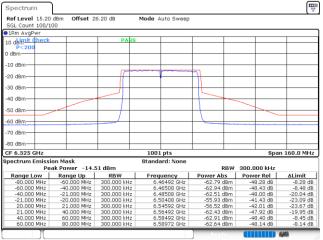
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#### Plot on Channel 6485MHz



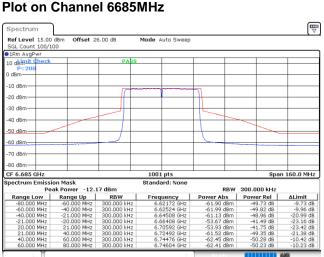
#### Plot on Channel 6525MHz



Date: 24.AUG.2021 16:22:35

#### Plot on Channel 6565MHz

#### ₽ Spectrum Spectrum Ref Level 15.00 dBm Offset 26.00 dB Mode Auto Sweep SGL Count PAS ) dBr -10 dBm ſſ -20 dBm--30 dBm -40 dBm--50 dBm -60 dBm--70 dBm-80 dBm CF 6.565 GHz 1001 pts Span 160.0 MHz pectrum Emission Mask Peak Powe 300.000 kHz RBW RBW 300.000 kHz Range Low Range Up -60.000 MH Frequency -62.63 dBm -48.25 dB -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz 40.000 MHz 60.000 MHz -48.25 dB -48.28 dB -47.85 dB -41.45 dB -41.47 dB -47.85 dB -48.19 dB -48.25 dB -8.25 dB -8.33 dB 19.88 dB 23.11 dB 23.14 dB 23.14 dB 19.89 dB -8.34 dB -8.34 dB -8.25 dB -40.000 -21.000 -20.000 .50508 .52508 .54408 .58592 .60492 .66 dBm .22 dBm .82 dBm .84 db MHZ MHZ MHZ MHZ MHZ MHZ GHZ GHZ GHZ GHZ GHZ GHZ dBm



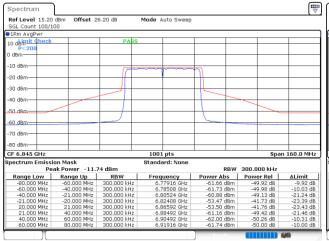
Date: 24.AUG.2021 16:28:21

Date: 24.AUG.2021 16:30:50

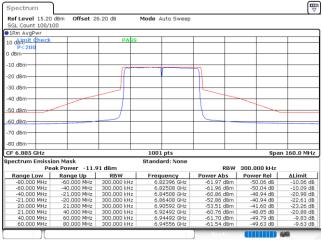
Date: 24.AUG.2021 16:25:34



#### Plot on Channel 6845MHz



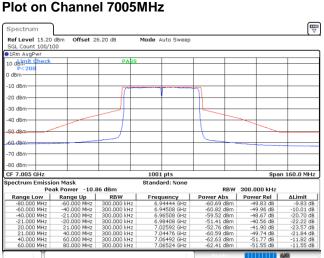
#### Plot on Channel 6885MHz



Date: 24.AUG.2021 16:33:10

#### Plot on Channel 6925MHz

#### ₽ Spectrum Ref Level 15.20 dBm Offset 26.20 dB Mode Auto Sweep SGL Count DARS 0 dBm -10 dBm -20 dBm -30 dBm 40 dBm-50 dBm -60 dBm--70 dBm 80 dBm CF 6.925 GHz 1001 pts Span 160.0 MHz pectrum Emission Mask Peak Powe -10.14 d 300.000 kHz RBW RBW 300.000 300.000 300.000 300.000 300.000 300.000 300.000 300.000 Range Low Range Up -60.000 MH Frequency Power Abs Power Rel -51.10 dB -51.30 dB -49.59 dB -41.53 dB -41.61 dB -49.59 dB -51.27 dB -51.27 dB 11.10 dB 11.35 dB 21.62 dB 23.20 dB 23.28 dB 21.76 dB 11.32 dB 11.94 dB -80.000 MHz -60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz -40.000 .86508 .88508 .90408 .94592 .96460 MHZ MHZ MHZ MHZ MHZ MHZ kHz kHz kHz kHz kHz kHz GHZ GHZ GHZ GHZ GHZ GHZ MHz MHz .98492 .98652 -61 dBm .41



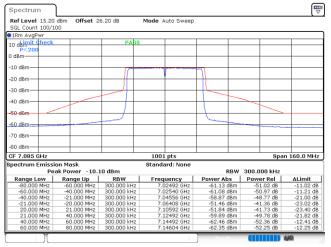
Date: 24.AUG.2021 16:37:53

Date: 24.AUG.2021 16:39:56

Date: 24.AUG.2021 16:35:29



#### Plot on Channel 7085MHz



Date: 24.AUG.2021 16:42:08