



# FCC RADIO TEST REPORT

FCC ID	:	IHDT56AA6
Equipment	:	Wearable Cellular Device
Brand Name	:	Motorola
Model Name	:	XT2209-1
Applicant	:	Motorola Mobility, LLC
		222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States
Manufacturer	:	Motorola Mobility, LLC 222 W Merchandise Mart Plaza, Suite 1800, Chicago, IL 60654, United States
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Oct. 19, 2021 and testing was performed from Oct. 22, 2021 to Dec. 09, 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 from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Lunis Min

Report Template No.: BU5-FR15EWLAC MA Version 2.4

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

Page Number	: 1 of 79
Issue Date	: Dec. 23, 2021
Report Version	: 02



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## History of this test report

Report No.	Version	Description	Issue Date
FR1O2008G	01	Initial issue of report	Dec. 10, 2021
FR1O2008G	02	Revise List of Measuring Equipment and Test Summary of Contention Based Protocol Test	Dec. 23, 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	3.49 dB under the limit at 7125.020 MHz
3.7	15.207	AC Conducted Emission	Pass	14.26 dB under the limit at 0.960 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 product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity.

## Reviewed by: Keven Cheng

Report Producer: Lucy Wu

### **1** General Description

### **1.1 Product Feature of Equipment Under Test**

Product Feature			
Equipment	Wearable Cellular	Device	
Brand Name	Motorola		
Model Name	XT2209-1		
FCC ID	IHDT56AA6		
	Conducted :	356636550004361	
IMEI Code	Conduction :	356636550004478	
	Radiation :	356636550004486	
	CBP :	356636550004361	
	LTE/5G NR/GNSS		
	WLAN 11a/b/g/n HT20/HT40		
EUT supports Radios application	WLAN 11ac VHT20/VHT40/VHT80/VHT160		
	WLAN 11ax HE20/HE40/HE80/HE160		
	Bluetooth BR/EDR/LE		
HW Version	EVT1		
EUT Stage	Identical Prototype		

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

Accessory List		
Bettern	Brand Name :	Motorola
Battery	Model Name :	NR70



1.2	Product	<b>Specification</b>	of Equipment	Under Test
-----	---------	----------------------	--------------	------------

Product Specification is subject to this standard				
5925 MHz ~ 6425 MHz				
Ty/Dy Frequency Denge	6425 MHz ~ 6525 MHz			
Tx/Rx Frequency Range	6525 MHz ~ 6875 MHz			
	6875 MHz ~ 7125 MHz			
	MIMO <ant. 4+5=""></ant.>			
	<5925 MHz ~ 6425 MHz>			
	802.11a: 8.38 dBm / 0.0069 W			
	802.11ax HE20: 8.34 dBm / 0.0068 W			
	802.11ax HE40: 11.43 dBm / 0.0139 W			
	802.11ax HE80: 14.25 dBm / 0.0266 W			
	802.11ax HE160: 16.78 dBm / 0.0476 W			
	<6425 MHz ~ 6525 MHz>			
	802.11a: 6.84 dBm / 0.0048 W			
	802.11ax HE20: 6.98 dBm / 0.0050 W			
	802.11ax HE40: 9.93 dBm / 0.0098 W			
	802.11ax HE80: 12.68 dBm / 0.0185 W			
Maximum Output Power	802.11ax HE160: 15.42 dBm / 0.0348 W			
	<6525 MHz ~ 6875 MHz>			
	802.11a: 7.28 dBm / 0.0053 W			
	802.11ax HE20: 7.63 dBm / 0.0058 W			
	802.11ax HE40: 10.38 dBm / 0.0109 W			
	802.11ax HE80: 13.03 dBm / 0.0201 W			
	802.11ax HE160: 15.55 dBm / 0.0359 W			
	<6875 MHz ~ 7125 MHz>			
	802.11a: 7.64 dBm / 0.0058 W			
	802.11ax HE20: 7.77 dBm / 0.0060 W			
	802.11ax HE40: 10.23 dBm / 0.0105 W			
	802.11ax HE80: 13.38 dBm / 0.0218 W			
	802.11ax HE160: 15.85 dBm / 0.0385 W			
	MIMO <ant. 4=""></ant.>			
	802.11a: 16.73 MHz			
	802.11ax HE20: 19.03 MHz			
	802.11ax HE40: 38.16 MHz			
	802.11ax HE80: 77.32 MHz			
99% Occupied Bandwidth	802.11ax HE160: 156.32 MHz			
-	MIMO <ant. 5=""> 802.11a: 16.63 MHz</ant.>			
	802.11a. HE20: 19.03 MHz			
	802.11ax HE40: 38.26 MHz			
	802.11ax HE80: 77.44 MHz			
	802.11ax HE160: 156.56 MHz			



Pr	Product Specification is subject to this standard				
	<5925 MHz ~ 6425 M	Hz>			
	<ant. 4="">: Printed ILA</ant.>	Antenna type wit	h gain -2.20 dBi		
	<ant. 5="">: Printed ILA</ant.>	Antenna type wit	h gain -2.20 dBi		
	<6425 MHz ~ 6525 M	Hz>			
	<ant. 4="">: Printed ILA</ant.>				
Antenna Type / Gain	<ant. 5="">: Printed ILA</ant.>	Antenna type wit	h gain 0.00 dBi		
Antenna Type/ Gam	<6525 MHz ~ 6875 M	Hz>			
	<ant. 4="">: Printed ILA Antenna type with gain -2.20 dBi</ant.>				
	<ant. 5="">: Printed ILA Antenna type with gain 0.00 dBi</ant.>				
	<6875 MHz ~ 7125 MHz>				
	<ant. 4="">: Printed ILA Antenna type with gain 0.00 dBi</ant.>				
	<ant. 5="">: Printed ILA</ant.>	21	Ū.		
Type of Modulation	802.11a: OFDM (BPS		,		
Type of Modulation	802.11ax : OFDMA (BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM)				
		Ant 1	Ant C	1	
Antenna Function	000.44 =/===	Ant. 4	Ant. 5		
Description	802.11 a/ax	V	V		
-	MIMO				

#### Remark:

- 1. MIMO Ant. 4+5 Directional Gain is a calculated result from MIMO Ant. 4 and MIMO Ant. 5. The formula used in calculation is documented in section 3.8.
- 2. Power of MIMO Ant. 4 + Ant. 5 is a calculated result from sum of the power MIMO Ant. 4 and MIMO Ant. 5.
- 3. 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 made to the EUT during the testing.



### 1.4 Testing Location

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

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

Test Site	Sporton International Inc. Wensan Laboratory	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
Test Site No.	TH05-HY, 03CH15-HY (TAF Code: 3786)	
Remark	The Conducted and Radiated Spurious Emission test items subcontracted to 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 declared by the manufacturer, the EUT must comply with the requirements of the following standards:

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

#### Remark:

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

### 2 Test Configuration of Equipment Under Test

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

### 2.1 Carrier Frequency and Channel

DW 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	60	05	60	45	6085			
BW 80M	Channel		7	7			2	3			
DVV OUIVI	Freq. (MHz)		59	85			60	65			
BW 160M	Channel		15								
BW TOON	Freq. (MHz)		6025								
	Channel	33	37	41	45	49	53	57	61		
			-								
BW 20M	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255		
		6115		6155	6175 -3		6215 51		6255 9		
BW 20M BW 40M	Freq. (MHz)	6115 3	6135	6155 4		5		5			
BW 40M	Freq. (MHz) Channel	6115 3	6135 5 25	6155 4	.3	5	51 205	5	9		
	Freq. (MHz) Channel Freq. (MHz)	6115 3	6135 5 25 3	6155 4 61	.3	5	205 51	5 62	9		
BW 40M	Freq. (MHz) Channel Freq. (MHz) Channel	6115 3	6135 5 25 3	6155 4 61	.3	62	205 51	5 5	9		



BW 20M	Channel	65	69	73	77	81	85	89	93
	Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415
BW 40M	Channel	67		75		83		91	
BIT 40III	Freq. (MHz)	6285		6325		6365		6405	
BW 80M	Channel	71					8	7	
	Freq. (MHz)	6305					63	85	
BW 160M	Channel				7	9			
	Freq. (MHz)				63	45			
DW COM	Channel	97	101	105	109	113	117	121	125
BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575
	Channel	9	9	1(	)7	1'	15	12	23
BW 40M	Freq. (MHz)	64	45	64	85	65	25	65	65
BW 80M	Channel		1(	)3			11	19	
	Freq. (MHz)		64	65			65	45	
BW 160M	Channel	111							
DAA LOOIAI	Freq. (MHz)	6505							
BW 20M	Channel	129	133	137	141	145	149	153	157
BVV ZUIVI	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735
BW 40M	Channel	13	31	139		147		15	55
	Freq. (MHz)	66	05	6645		66	85	6725	
BW 80M	Channel	135				151			
	Freq. (MHz)		66	25		6705			
BW 160M	Channel				14	43			
BAA LOOIAI	Freq. (MHz)				66	65			
<b>BW</b>	Channel	161	165	169	173	177	181	185	189
BW 20M					0045	0005	0055	0075	6895
	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	0000
	Freq. (MHz) Channel		6775 63		6815 71		6855 79	6875 18	
BW 40M		16		17		17		18	
	Channel	16	65	17	71	17	79 445	18	37
BW 40M BW 80M	Channel Freq. (MHz)	16	65 16	17 68	71	17	79 445	18 68 33	37
	Channel Freq. (MHz) Channel	16	65 16	17 68 67	05	17	1 79 445 18	18 68 33	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	203		1	219			
	Freq. (MHz)	69	25	69	65	70	05	70	45		
BW 80M	Channel		19	99			2′	15			
D VV OUIVI	Freq. (MHz)		69	45			70	25			
BW 160M	Channel		207								
DW TOOW	Freq. (MHz)	6985									
	Channel	225				229					
BW 20M	Freq. (MHz)	7075				7095					
	Channel	227									
BW 40M	Freq. (MHz)				70	85					
	Channel				23	33					
BW 20M	Freq. (MHz)				71	15					

### 2.2 Test Mode

The final test modes consider the modulation and the worst data rates as 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

#### Note:

- 1. Since the verify power, the smaller power can be covered by the higher power. The SISO Mode are covered by MIMO Mode.
- 2. For 802.11ax Since the verify power& PSD, the smaller power can be covered by the higher power. The Partial RU are covered by Full RU



			Test Cases				
	AC Conducted Emission Mode 1 : LTE Band 2 Link + Bluetooth Link + WLAN (6GHz) Link + Bottom USB Port (Charging from Adapter)						
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)		
		802.11a	802.11a	802.11a	802.11a		
L	Low	001	097	117	189		
Μ	Middle	049	105	149	209		
Н	High	093	113	181	233		
5	Straddle	-	-	185	-		
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)		
		802.11ax HE20	802.11ax HE20	802.11ax HE20	802.11ax HE20		
L	Low	001	097	117	189		
Μ	Middle	049	105	149	209		
н	High	093	113	181	229		
	ingii				233		
5	Straddle	-	-	185	-		
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)		
		802.11ax HE40	802.11ax HE40	802.11ax HE40	802.11ax HE40		
L	Low	003	099	123	195		
М	Middle	051	-	147	211		
н	High	091	107	179	227		
5	Straddle	-	115	187	-		
	Ch. #	UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)		
		802.11ax HE80	802.11ax HE80	802.11ax HE80	802.11ax HE80		
L	Low	007		135	199		
Μ	Middle	055	103	151	-		
н	High	087		167	215		
5	Straddle	-	119	183	-		

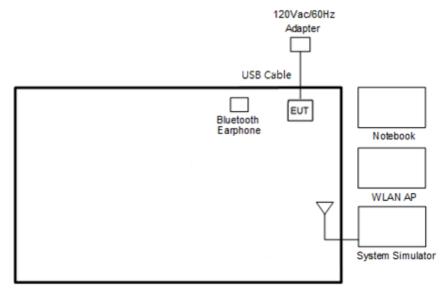


Ch. #		UNII-5 (5925-6425 MHz)	UNII-6 (6425-6525 MHz)	UNII-7 (6525-6875 MHz)	UNII-8 (6875-7125 MHz)
		802.11ax HE160	802.11ax HE160	802.11ax HE160	802.11ax HE160
L	Low	015			
М	Middle	047	-	143	207
н	High	079			
S	Straddle	-	111	175	-

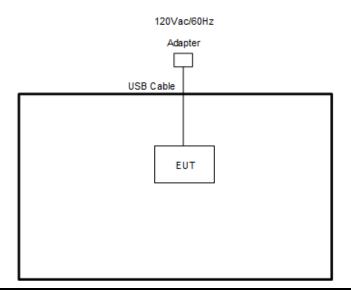
**Remark:** For radiation spurious emission, the modulation and the data rate picked for testing are determined by the Max. RF conducted power.

### 2.3 Connection Diagram of Test System

#### <AC Conducted Emission Mode>



<WLAN Tx Mode>





Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	NETGEAR64	RAXE500	N/A	N/A	Unshielded, 1.8 m
4.	Notebook	DELL	Latitude 3400	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	USB Cable	Samsung	N/A	N/A	Shielded,1.3m	N/A
6.	USB Cable	N/A	N/A	N/A	N/A	N/A
7.	Adapter	DVE	DSA-5PFM-05 FUS	FCC DoC	N/A	N/A
8.	Adapter	Samsung	GT-N7000	NA	N/A	N/A

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

### 2.5 EUT Operation Test Setup

The RF test items, utility "QRCT 4.0.00193.0" 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.

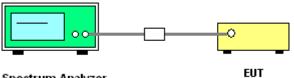
#### 3.1.2 Measuring Instruments

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

#### 3.1.3 Test Procedures

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

### 3.1.4 Test Setup



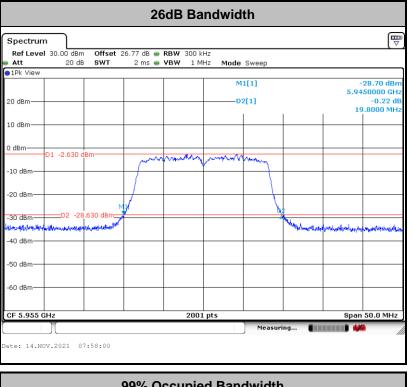
Spectrum Analyzer

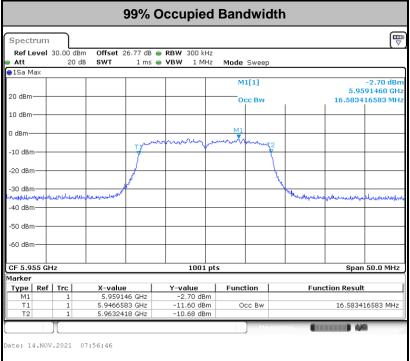
### 3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.



#### <802.11a Mode>

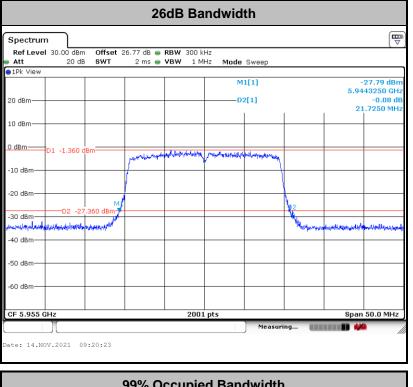


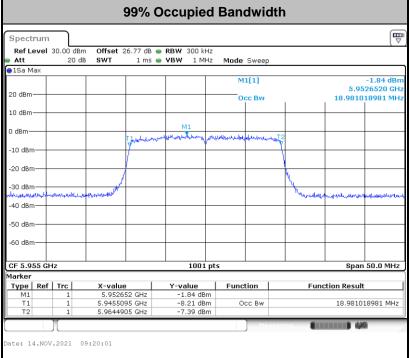


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



#### <802.11ax HE 20 Mode>





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



#### <802.11ax HE 40 Mode>

	26dB	B Bandwidth	
Spectrum			
	Offset 26.77 dB 👄 RBW		( •
Att 20 dB 8 1Pk View	SWT 2 ms 👄 VBW	1 MHz Mode Sweep	
DIPK VIEW		M1[1]	-27.26 dBm
			5.9447500 GHz
20 dBm		D2[1]	-0.25 dB 40.4550 MHz
10 dBm			
0.dBmD1 -0.770 dBm=		www.www.hand. parate-liderande.www.www.wasplane.ch.ad.	
-10 dBm	Marte Maryloux de under ander	and a subscription of the	
-10 ubili			
-20 dBm			
D2 -26.770			de
-30 dBm			Autor Autor and Autor at
unital franklik (Maninalija miranian) -40 dBm	MM		N-Wetersteinerstatistikkenserkkonstatisteinerstatis
-+u upili			
-50 dBm			
-60 dBm			
CF 5.965 GHz		2001 pts	Span 90.0 MHz
ate: 15.NOV.2021 21:00	):12		
	000/ 0		
	99% Occu	upied Bandwidth	
Spectrum	99% Occi	upied Bandwidth	 ⊽
Ref Level 30.00 dBm (	Offset 26.77 dB 曼 RBW	1 MHz	
RefLevel 30.00 dBm ( Att 20 dB §		1 MHz	
Ref Level 30.00 dBm (	Offset 26.77 dB 曼 RBW	1 MHz	(₩ ▼ 5.34 dBm
RefLevel 30.00 dBm ( Att 20 dB §	Offset 26.77 dB 曼 RBW	1 MHz 3 MHz <b>Mode</b> Sweep	
Ref Level         30.00 dBm         0           Att         20 dB         5           1Sa Max         20 dBm         20 dBm	Offset 26.77 dB 曼 RBW	1 MHz 3 MHz Mode Sweep M1[1]	
Ref Level         30.00 dBm         0           Att         20 dB         8           15a Max         20 dBm         10 dBm	Offset 26.77 dB ● RBW SWT 1 ms ● VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	
Ref Level         30.00 dBm         0           Att         20 dB         8           15a Max         20 dBm         10 dBm	Offset 26.77 dB 曼 RBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	
Ref Level         30.00 dBm         4           Att         20 dB         5           1Sa Max         20 dBm         10 dBm           0 dBm         0 dBm         10 dBm	Offset 26.77 dB ● RBW SWT 1 ms ● VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	
Ref Level         30.00         dBm         0           Att         20 dB         8         9         15a Max         9           20 dBm         0         <	Offset 26.77 dB ● RBW SWT 1 ms ● VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	
Ref Level         30.00 dBm         4           Att         20 dB         9           91Sa Max         20         8           20 dBm         10         8           -10 dBm	Offset 26.77 dB 🍝 RBW SWT 1 ms 🍝 VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	5.34 dBm 5.9612000 GHz 38.061938062 MHz
Ref Level         30.00         dBm         Q           Att         20 dB         9         153 Max           20 dBm         10 dBm         10 dBm         10 dBm           -10 dBm	Offset 26.77 dB 🍝 RBW SWT 1 ms 🍝 VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	
Ref Level         30.00 dBm         0           Att         20 dB         5           15a Max         20 dBm         10 dBm           10 dBm         0 dBm         -10 dBm           -20 dBm         -20 dBm         -10 dBm	Offset 26.77 dB 🍝 RBW SWT 1 ms 🍝 VBW	1 MHz 3 MHz Mode Sweep M1[1] Occ Bw	5.34 dBm 5.9612000 GHz 38.061938062 MHz

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

1001 pts

Function

Occ Bw

Y-value 5.34 dBm -2.81 dBm -1.71 dBm

X-value 5.9612 GHz 5.946019 GHz 5.9840809 GHz

-50 dBm -60 dBm

CF 5.965 GHz Marker

> M1 T1 T2

Type Ref Trc

ate: 15.NOV.2021 20:59:53

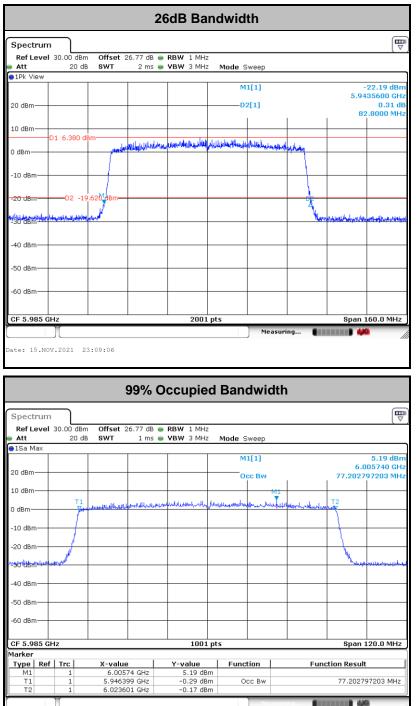
Span 100.0 MHz

38.061938062 MHz

Function Result



#### <802.11ax HE 80 Mode>

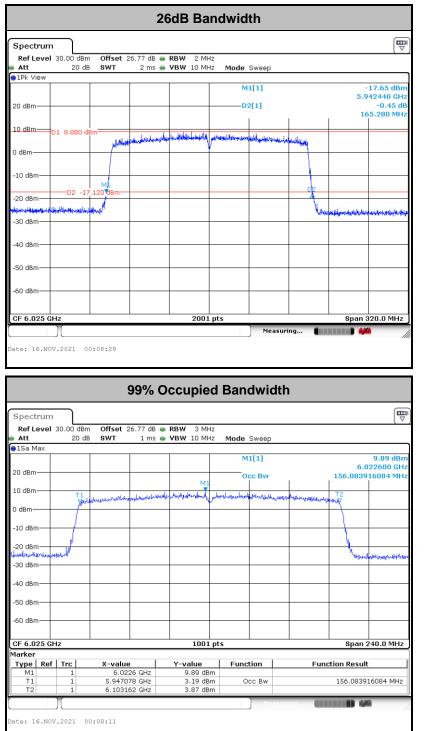


Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

ate: 15.NOV.2021 23:08:45



#### <802.11ax HE 160 Mode>



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

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

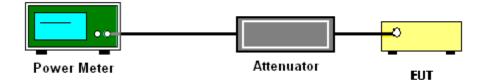
#### 3.2.3 Test Procedures

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

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

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

#### 3.2.4 Test Setup



### 3.2.5 Test Result of Fundamental Maximum EIRP

Please refer to Appendix A.



### 3.3 Fundamental Power Spectral Density Measurement

#### 3.3.1 Limit of Fundamental Power Spectral Density

#### <FCC 14-30 CFR 15.407>

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

#### 3.3.2 Measuring Instruments

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

#### 3.3.3 Test Procedures

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

#### # Method SA-3 #

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

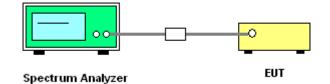
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep  $\geq$  2 Span / RBW.
- Sweep time ≤ (number of points in sweep) × T, when duty cycle is less than 98 percent where T is the minimum transmission duration over 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.



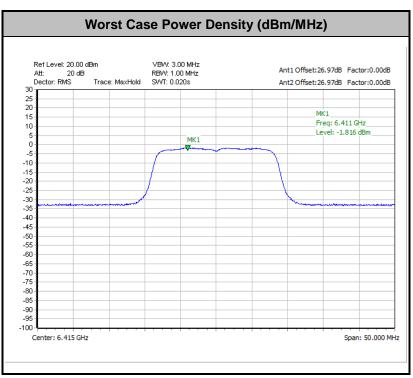
### 3.3.4 Test Setup



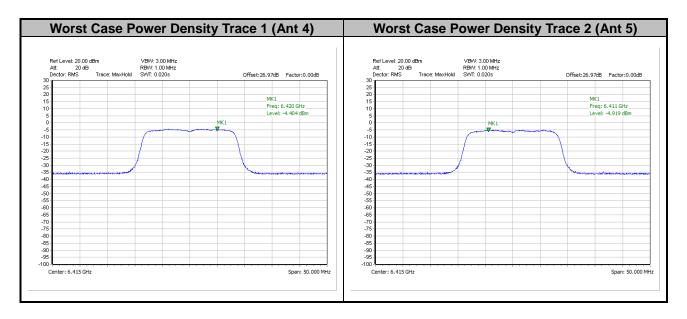
### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

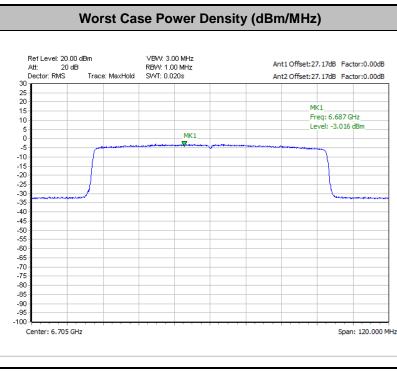




Remark: The test plot is showing a bin by bin combined result mathematically adds two traces.

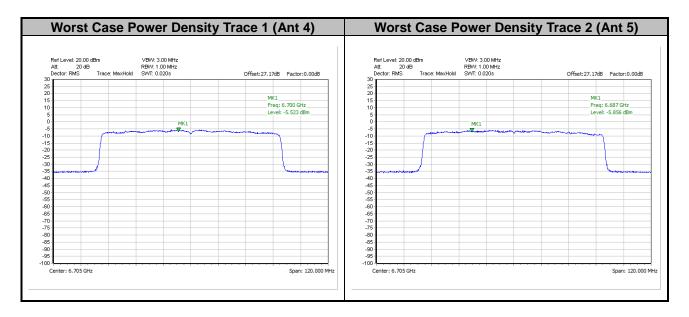






#### <802.11ax Mode>







### 3.4 In-Band Emissions (Channel Mask)

#### 3.4.1 Limit of Unwanted Emissions

#### <FCC 14-30 CFR 15.407>

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

#### 3.4.2 Measuring Instruments

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

#### 3.4.3 Test Procedures

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

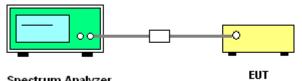
Section J) In-Band Emissions.

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



- 4. Adjust the span to encompass the entire mask as necessary.
- 5. Clear trace.
- 6. Trace average at least 100 traces in power averaging (rms) mode.
- 7. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

#### 3.4.4 Test Setup

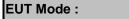


Spectrum Analyzer



#### 3.4.5 Test Result

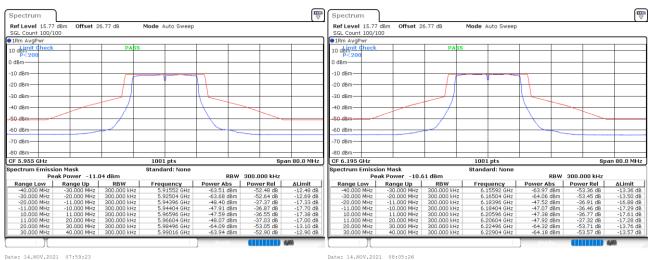
#### MIMO <Ant. 4+5(4)>



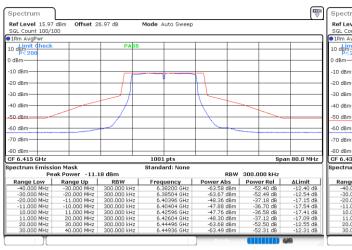
Plot on Channel 5955MHz

802.11a

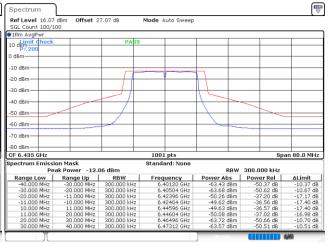
#### Plot on Channel 6195MHz



#### Plot on Channel 6415MHz



#### Plot on Channel 6435MHz



Date: 14.NOV.2021 08:10:31

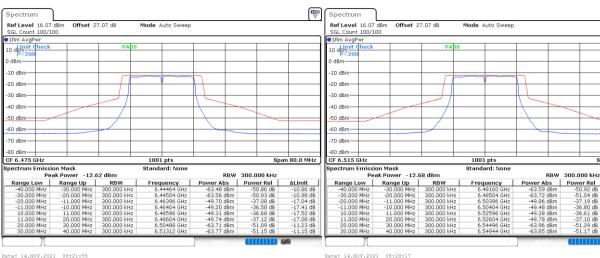
Date: 14.NOV.2021 08:17:39

Span 80.0 MHz

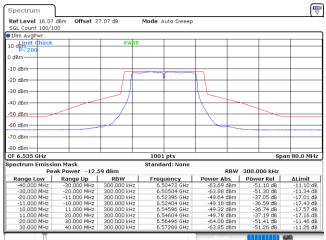
10.92 dB 11.09 dB 17.15 dB 17.63 dB 17.44 dB 17.07 dB 11.34 dB 11.34 dB



#### Plot on Channel 6475MHz

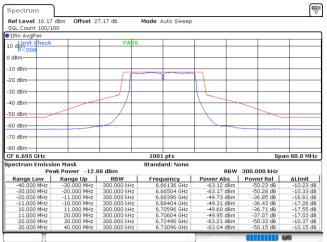


Plot on Channel 6535MHz



Plot on Channel 6695MHz

Plot on Channel 6515MHz

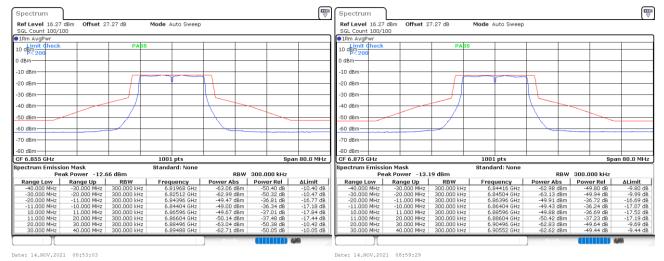


Date: 14.NOV.2021 08:38:39

#### Plot on Channel 6855MHz

Date: 14.NOV.2021 08:44:10

#### Plot on Channel 6875MHz

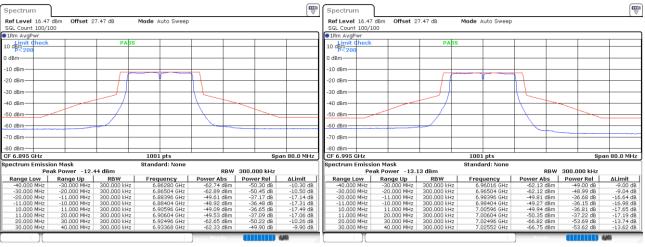


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#### Plot on Channel 6895MHz

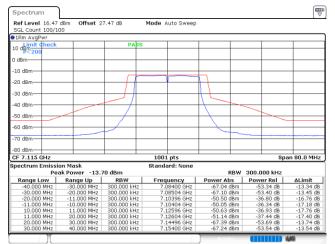


Date: 14.NOV.2021 09:05:18

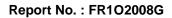
Date: 14.NOV.2021 09:09:43

Plot on Channel 6995MHz

#### Plot on Channel 7115MHz



Date: 14.NOV.2021 09:13:58

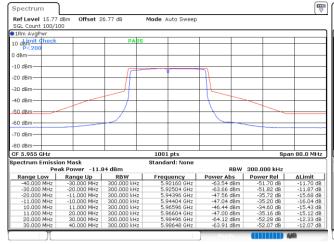




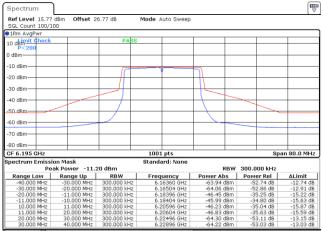
EUT Mode :

802.11ax HE20

#### Plot on Channel 5955MHz



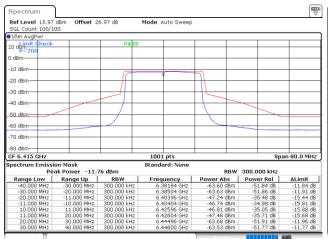
#### Plot on Channel 6195MHz



Date: 14.NOV.2021 09:21:11

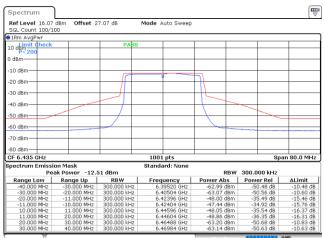
Date: 14.NOV.2021 09:28:49

#### Plot on Channel 6415MHz



Date: 14.NOV.2021 09:34:44

#### Plot on Channel 6435MHz



Date: 15.NOV.2021 19:24:51

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Span 80.0 MHz

-10.58 -15.93 -15.92 -16.49 -16.14 -10.87

RBW 300.000 kHz

Power Rel

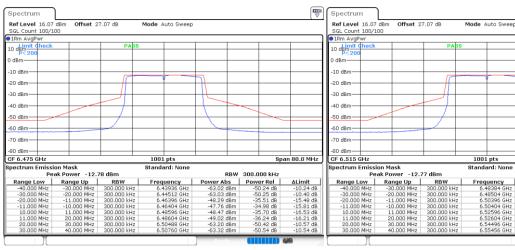
-50.53 dB -50.53 dB -35.97 dB -35.08 dB -35.66 dB -36.18 dB -50.82 dB -50.68 dB

Power Abs 6 dBn

-63.16 dBm -63.29 dBm -48.73 dBm -47.85 dBm -48.43 dBm -48.94 dBm -63.59 dBm -63.45 dBm



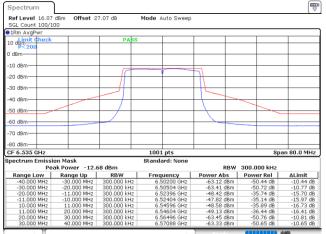
#### Plot on Channel 6475MHz



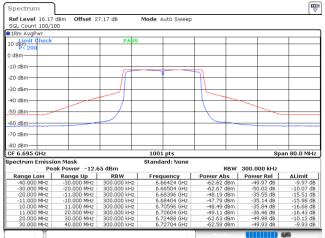
#### Date: 15.Nov.2021 19:30:19

Date: 15.NOV.2021 19:39:07

#### Plot on Channel 6535MHz



### Plot on Channel 6695MHz



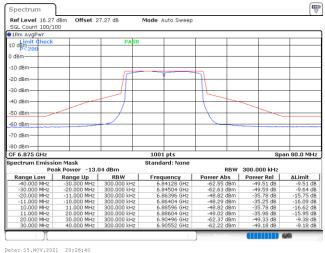
Date: 15.NOV.2021 19:49:16

#### Plot on Channel 6855MHz

Ref Level 16.27 dE SGL Count 100/100 Offset 27.27 dB Mode Auto Sweep ●1Rm Avg PAS 10 dam 20 0 dBm--10 dBm -20 dBm--30 dBm 40 dBm--50 dBm--60 dBm--70 dBm-80 dBri CF 6.855 GHz 1001 pts Span 80.0 MHz : ission Mask Peak Power -13.03 dBm Range Up | RB RBW 300.000 kHz k Power -13. Range Up -30.000 MHz -20.000 MHz -11.000 MHz 11.000 MHz 20.000 MHz 30.000 MHz 40.000 MHz 3 dBm RBW 300.000 kHz Range Low 2.57 dBm 2.57 dBm 2.68 dBm 3.94 dBm 3.34 dBm 3.08 dBm 3.69 dBm 2.45 dBm 2.29 dBm Power Re -9.53 dB -9.69 dB 15.88 dB 16.14 dB 16.88 dB 16.62 dB -9.47 dB -9.26 dB 82296 GHz 82504 GHz 84396 GHz 84404 GHz 86596 GHz 86604 GHz 88496 GHz 88496 GHz -49.53 dB -49.64 dB -35.91 dB -35.30 dB -36.04 dB -36.65 dB 40.000 MHz 30.000 MHz 20.000 MHz 11.000 MHz 10.000 MHz 11.000 MHz 20.000 MHz 30.000 MHz -62 -48 -49 -49 -62 36.65 49.42 49.26

#### Plot on Channel 6875MHz

Date: 15.NOV.2021 19:59:18



Date: 15.NOV.2021 20:21:49

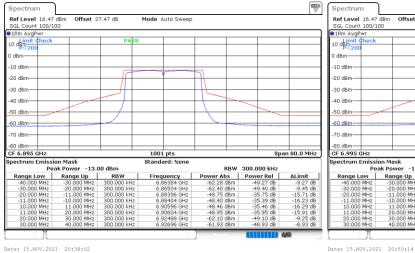
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Plot on Channel 6515MHz

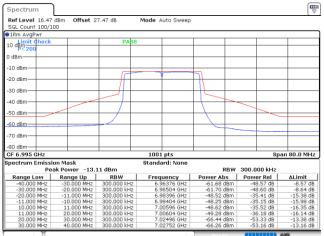


#### Plot on Channel 6895MHz



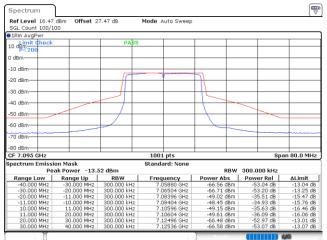
#### Plot on Channel 6995MHz

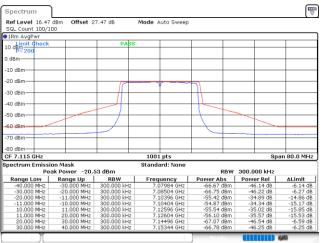
Plot on Channel 7115MHz



Date: 15.NOV.2021 20:36:02

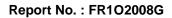
#### Plot on Channel 7095MHz





Date: 2.DEC.2021 22:53:25

Date: 29.NOV.2021 23:59:29

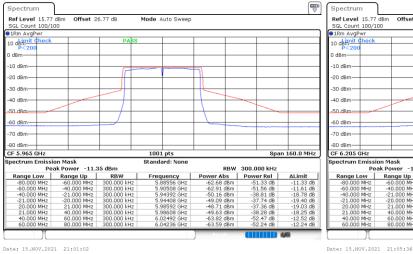




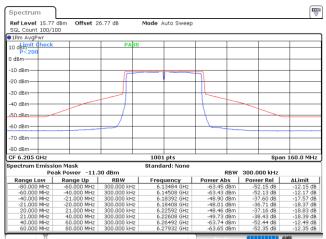
EUT Mode :

802.11ax HE40

#### Plot on Channel 5965MHz

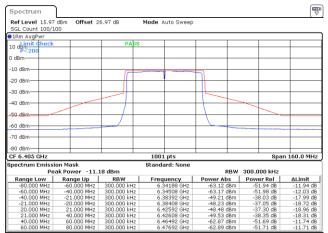


#### Plot on Channel 6205MHz

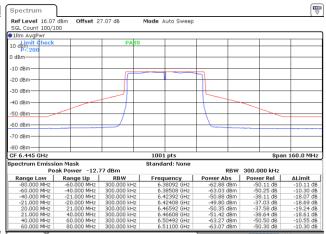


Date: 15.NOV.2021 21:01:02

#### Plot on Channel 6405MHz



Plot on Channel 6445MHz



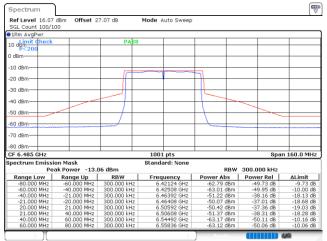
Date: 15.NOV.2021 21:10:17

Date: 15.NOV.2021 21:20:25

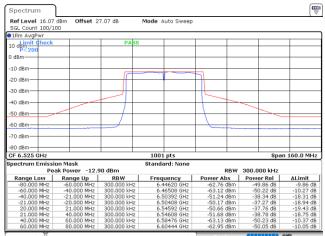
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#### Plot on Channel 6485MHz

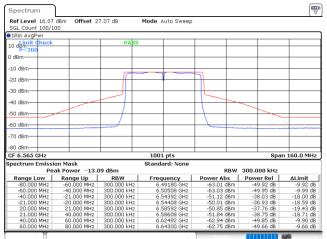


#### Plot on Channel 6525MHz



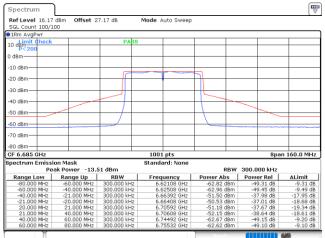
Date: 15.NOV.2021 21:28:15

#### Plot on Channel 6565MHz



#### Plot on Channel 6685MHz

Date: 15.NOV.2021 21:36:46



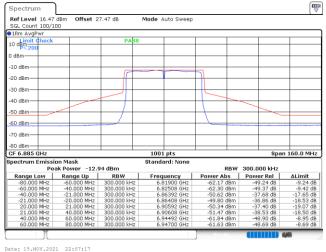
Date: 15.NOV.2021 21:46:13

#### Plot on Channel 6845MHz

Ref Level 16.27 dBm SGL Count 100/100 Offset 27.27 dB Mode Auto Sweep ●1Rm AvgF 10 dam 20 0 dBm--10 dBm ſ -20 dBm--30 dBm 40 dBm--50 dBm--60 dBm--70 dBm-80 dBri CF 6.845 GHz 1001 pts Span 160.0 MHz z ission Mask Peak Power -13.13 dBm Range Up | RB RBW 300.000 kHz k Power -13.1 Range Up -60.000 MHz -40.000 MHz -21.000 MHz -20.000 MHz 21.000 MHz 40.000 MHz 80.000 MHz 13 dBm RBW 300.000 kHz Range Low Power Rel r Abs .49 dBm .66 dBm .23 dBm .25 dBm 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 5.77820 GHz 5.78508 GHz 5.82392 GHz 5.82408 GHz 5.86592 GHz 5.86608 GHz 5.90492 GHz 5.91468 GHz 49. 38. 37. 38. 39. 39. 49. 53 dB 10 dB 12 dB 05 dB 06 dB 18 dB .90492 91468 Date: 15.NOV.2021 22:01:17

#### Plot on Channel 6885MHz

Date: 15.NOV.2021 21:55:32

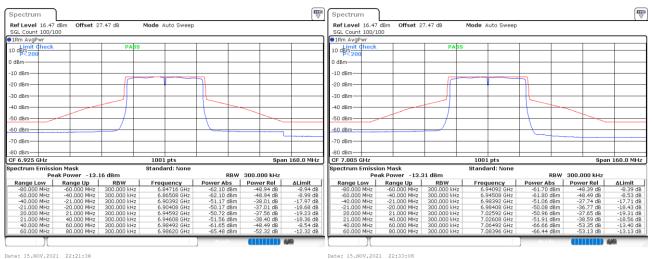


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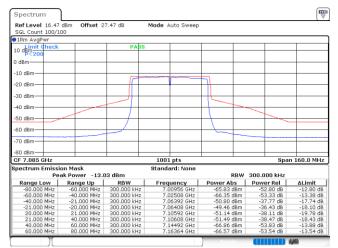


#### Plot on Channel 6925MHz

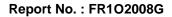


Plot on Channel 7005MHz

Plot on Channel 7085MHz



Date: 15.NOV.2021 22:54:30

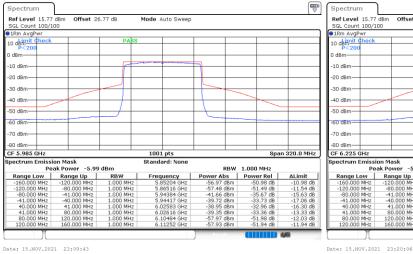




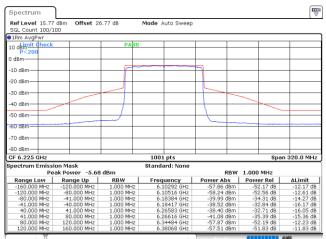
EUT Mode :

802.11ax HE80

#### Plot on Channel 5985MHz

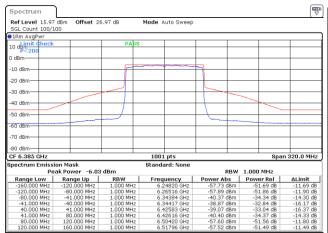


#### Plot on Channel 6225MHz

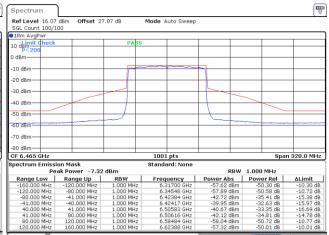


Date: 15.NOV.2021 23:09:43

#### Plot on Channel 6385MHz



#### Plot on Channel 6465MHz



Date: 15.NOV.2021 23:23:28

Date: 15.NOV.2021 23:27:48

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Span 320.0 MHz

∆Limit

-9.98 dB -10.29 dB -14.80 dB -16.26 dB -17.05 dB -15.68 dB -10.01 dB -9.70 dB

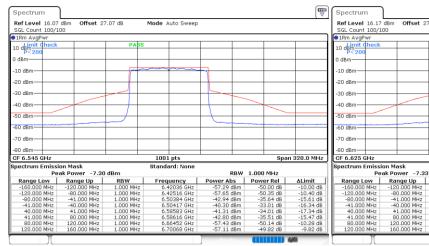
RBW 1.000 MHz

Power Rel -49,98 dB

-49.98 dB -50.24 dB -34.84 dB -32.92 dB -33.72 dB -35.71 dB -49.87 dB -49.70 dB



#### Plot on Channel 6545MHz

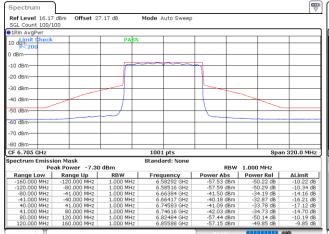


Date: 15.Nov.2021 23:31:09

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Spectrum

#### Plot on Channel 6705MHz



Mode Auto Sweet Ref Level 16.27 Im Offset 27.27 dB 100/100 SGL Count 1Rm AvgP PASS 10 dBm ) dBm--10 dBm -20 dBm -30 dBm--40 dBm -50 dBm--60 dBm -70 dBman dam CF 6.785 GHz Span 320.0 MHz 1001 pts 
 2F 6.785 GHz

 DeckTum Enission Mask

 PeakPower
 -7.09

 160.000 MHz
 -120.000 MHz

 120.000 MHz
 -80.000 MHz

 -120.000 MHz
 -80.000 MHz

 -80.000 MHz
 -40.000 MHz

 -80.000 MHz
 40.000 MHz

 -81.000 MHz
 40.000 MHz

 -120.000 MHz
 1000 MHz

 -120.000 MHz
 1000 MHz

 120.000 MHz
 1000 MHz

 120.000 MHz
 1000 MHz

 120.000 MHz
 1000 MHz

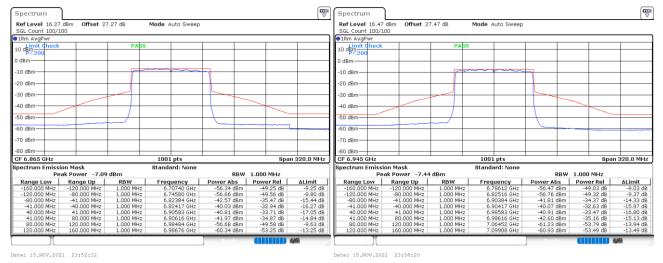
 120.000 MHz
 1000 MHz
 Standard: None -7.09 dBm RBW 1.000 MHz Frequency 6.64724 GHz 6.66516 GHz 6.74384 GHz 6.74417 GHz 6.82583 GHz 6.82616 GHz 6.90388 GHz 6.92820 GHz RBW 1.000 MHz -56.74 dBm Power Rel -49.65 dB ∆Limit dE -56.74 dBm -57.05 dBm -41.81 dBm -40.09 dBm -41.20 dBm -42.72 dBm -56.88 dBm -56.77 dBm -9.65 dB -10.01 dB -14.69 dB -16.33 dB -17.45 dB -15.60 dB -10.13 dB -9.68 dB -49.65 dB -49.96 dB -34.72 dB -33.00 dB -34.11 dB -35.63 dB -49.79 dB -49.68 dB

Date: 15.NOV.2021 23:44:13

#### Plot on Channel 6865MHz

Date: 15.NOV.2021 23:48:15

#### Plot on Channel 6945MHz



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#### Plot on Channel 6625MHz

Offset 27.17 dB

-7.33 dBm

-120.000 MHz -80.000 MHz -41.000 MHz -40.000 MHz 41.000 MHz 80.000 MHz 120.000 MHz 160.000 MHz

Plot on Channel 6785MHz

RBW 1.000

..000 MHz ..000 MHz ..000 MHz ..000 MHz ..000 MHz ..000 MHz ..000 MHz

PAS

Mode Auto Sweet

1001 pts

Frequency 6.48116 GH

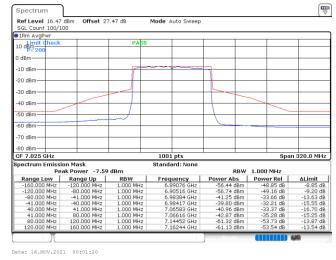
5.48116 GHz 5.50516 GHz 5.58384 GHz 5.58417 GHz 5.66583 GHz 5.66516 GHz 5.74452 GHz 5.75892 GHz

Power Abs

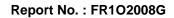
-57.31 dBm -57.57 dBm -42.17 dBm -40.26 dBm -41.05 dBm -43.04 dBm -57.20 dBm -57.03 dBm



#### Plot on Channel 7025MHz



Date: 16.NOV.2021 00:01:20

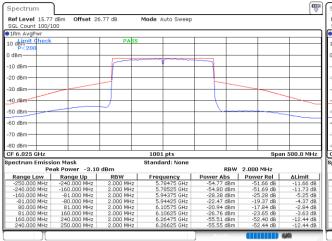




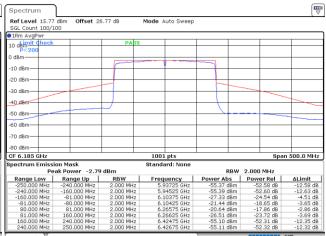
EUT Mode :

802.11ax HE160

#### Plot on Channel 6025MHz



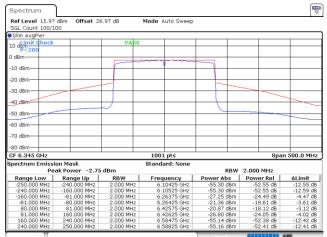
#### Plot on Channel 6185MHz



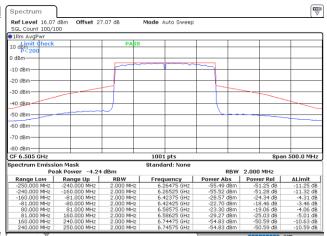
Date: 16.NOV.2021 00:09:12

Date: 16.NOV.2021 00:12:59

#### Plot on Channel 6345MHz



#### Plot on Channel 6505MHz

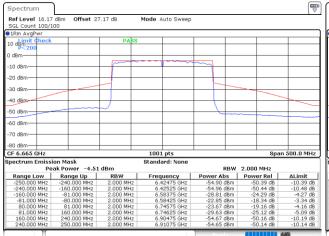


Date: 16.NOV.2021 00:19:51

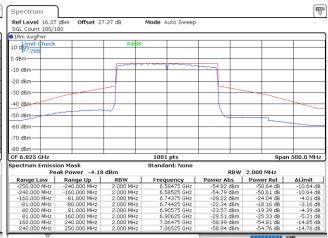
Date: 16.NOV.2021 00:23:45



#### Plot on Channel 6665MHz



#### Plot on Channel 6825MHz



Date: 16.NOV.2021 00:28:52

Date: 16.NOV.2021 00:35:54

#### Plot on Channel 6985MHz

Ref Level 16.47 GL Count 100/1		.47 dB	Mode Auto Sweep			
1Rm AvgPwr						
Limit Chook		PASS				
						-
dBm						
ubiii						
10 dBm						
20 dBm						-
an dam						
40 dBm						
50 dBm						-
50 dBm						
JO UDIN						
70 dBm						
30 dBm						
F 6.985 GHz			1001 pts		Spa	n 500.0 MH
oectrum Emissi			Standard: None			
Pe	ak Power -3.94	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	6.73825 GHz	-53.89 dBm	-49.95 dB	-9.95 dE
-240.000 MHz	-160.000 MHz	2.000 MHz	6.74525 GHz	-53.84 dBm	-49.91 dB	-9.95 dE
-160.000 MHz	-81.000 MHz	2.000 MHz	6.90375 GHz	-28.26 dBm	-24.33 dB	-4.30 dE
-81.000 MHz	-80.000 MHz	2.000 MHz	6.90425 GHz	-22.34 dBm	-18.40 dB	-3.40 dE
80.000 MHz	81.000 MHz	2.000 MHz	7.06575 GHz	-23.11 dBm	-19.17 dB	-4.17 dE
	160.000 MHz	2.000 MHz	7.06625 GHz	-28.97 dBm	-25.03 dB	-5.01 dE
81.000 MHz				-58.02 dBm	-54.08 dB	-14.12 df
81.000 MHz 160.000 MHz	240.000 MHz	2.000 MHz	7.22475 GHz	-58.02 dBm	-54.08 dB	

Date: 16.NOV.2021 00:42:08

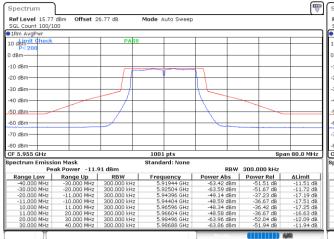


#### MIMO <Ant. 4+5(5)>

EUT Mode :

802.11a

#### Plot on Channel 5955MHz

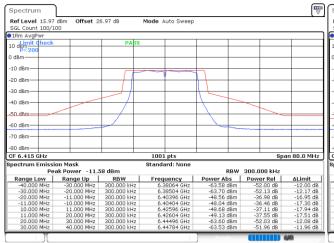


#### Spectrum Ref Level 15.77 dBm Offset 26.77 dB Mode Auto Sweep Count 100/100 IRm AvgP che PAS dBm -10 dBm -20 dBm -30 dBm 40 dBm -50 dBm--60 dBm 70 dBm-30 dBm CF 6.195 GHz 1001 pts Span 80.0 MHz ission Masi Peak Powe -12.52 dBm RBW 300.000 kH; Peak Power -12.52 BIM Range Low Range Low Rage Vol RBW -40.000 MHz -30.000 MHz 300.000 kHz 300.000 kHz -30.000 MHz -20.000 MHz 300.000 kHz 300.000 kHz -11.000 MHz -11.000 MHz 300.000 kHz 300.000 kHz -20.000 MHz -11.000 MHz 300.000 kHz 300.000 kHz -20.000 MHz 20.000 MHz 300.000 kHz 300.000 kHz -20.000 MHz 20.000 MHz 300.000 kHz 300.000 kHz -30.000 MHz 40.000 MHz 300.000 kHz 300.000 kHz RBW 300.000 kHz Power Ab Power Rel -64.11 dBm -51.59 dB -64.25 dBm -36.66 dB -49.20 dBm -36.65 dB -49.00 dBm -36.55 dB -49.00 dBm -36.55 dB -49.66 dBm -37.13 dB -64.25 dBm -51.77 dB -11.59 dB -11.77 dB -16.64 dB -17.09 dB -17.38 dB -17.03 dB -11.92 dB -11.73 dB

Date: 14.NOV.2021 08:02:01

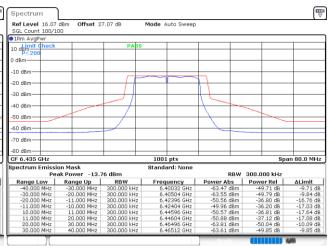
Date: 14.NOV.2021 08:07:30

#### Plot on Channel 6415MHz



#### Plot on Channel 6435MHz

Plot on Channel 6195MHz



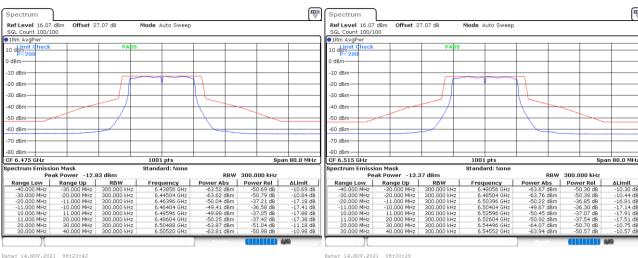
Date: 14.NOV.2021 08:12:56

Date: 14.NOV.2021 08:19:16

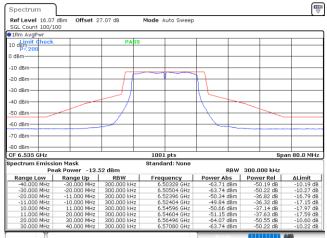
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#### Plot on Channel 6475MHz

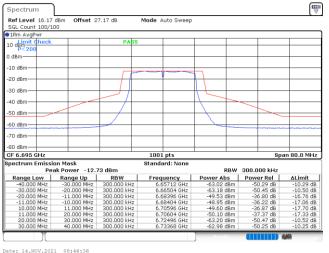


#### Plot on Channel 6535MHz



#### Plot on Channel 6695MHz

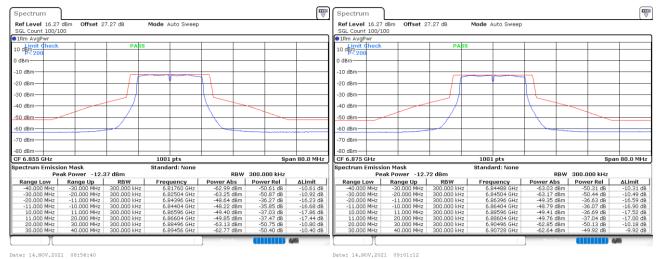
Plot on Channel 6515MHz



Date: 14.NOV.2021 08:40:23

#### Plot on Channel 6855MHz

#### Plot on Channel 6875MHz



TEL : 886-3-327-3456 FAX : 886-3-328-4978 Report Template No.: BU5-FR15EWLAC MA Version 2.4 Page Number : Issue Date : Report Version :

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