



FCC RADIO TEST REPORT

FCC ID	:	S9GR560
Equipment	:	R560 Access Point
Brand Name	:	RUCKUS
Model Name	:	R560
Applicant	:	Ruckus Wireless, Inc. 350 W. Java Dr., Sunnyvale CA 94089 USA
Manufacturer	:	Ruckus Wireless, Inc. 350 W. Java Dr., Sunnyvale CA 94089 USA
Standard	:	FCC Part 15 Subpart E §15.407

The product was received on Apr. 08, 2022 and testing was performed from Apr. 19, 2022 to Sep. 15, 2022. We, Sporton International (USA) Inc., 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 (USA) Inc., the test report shall not be reproduced except in full.

Nil Kao

Approved by: Neil Kao

Sporton International (USA) Inc. 1175 Montague Expressway, Milpitas, CA 95035

Page Number: 1 of 87Issue Date: Oct. 13, 2022Report Version: 02



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History of this test report

Report No.	Version	Description	Issue Date
FR220302001F	01	Initial issue of report	Sep. 26, 2022
FR220302001F	02	 Revise section 1.1 Revise section 2.2 	Oct. 13, 2022



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)(10)	26dB Emission Bandwidth	Pass	-
3.1	2.1049	99% Occupied Bandwidth	Reporting only	-
3.2	15.407(a)(5)	Fundamental Maximum EIRP	Pass	-
3.3	15.407(a)(5)	Fundamental Power Spectral Density	Pass	-
3.4	15.407(b)(5)	In-Band Emissions (Channel Mask)	Pass	-
3.5	15.407(d)(6)	Contention Based Protocol	Pass	-
3.6	15.407(b)(5)	Unwanted Emissions	Pass	0.26 dB under the limit at 7125.000 MHz
3.7	15.207	AC Conducted Emission	Pass	6.34 dB under the limit at 0.368 MHz
3.8	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

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

2. Please refer to the section " Uncertainty of Evaluation " for measurement uncertainty.

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.



1 General Description

1.1 Product Feature of Equipment Under Test

Bluetooth-LE, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, Wi-Fi 6GHz 802.11a/n/ac/ax and ZigBee.

Product Feature						
	WLAN:					
	<ant. 1="">: Omni-D</ant.>	irectional Antenr	าล			
	<ant. 2="">: Omni-D</ant.>	irectional Antenr	าล			
Antenna Type	<ant. 3="">: Omni-D</ant.>	irectional Antenr	าล			
	<ant. 4="">: Omni-D</ant.>	irectional Antenr	าล			
	Bluetooth-LE: O	mni-Directional A	Antenna			
	ZigBee: Omni-Directional Antenna					
	Antenna infor	mation				
	Antenna infor	nation				
5925 MHz ~ 6425 MHz	Peak Gain (dBi)	Horizontal	Ant. 2: 3.9			
3323 WHZ * 0423 WHZ		Vertical	Ant. 4: 4.4			
CADE MULE CEDE MULE	Deals Cain (dDi)	Horizontal	Ant. 2: 4.0			
6425 MHz ~ 6525 MHz	Peak Gain (dBi)	Vertical	Ant. 4: 3.7			
		Horizontal	Ant. 2: 3.6			
6525 MHz ~ 6875 MHz	Peak Gain (dBi)					

Remark:

6875 MHz ~ 7125 MHz

1. The EUT information mentioned or listed above is declared by manufacturer.

Peak Gain (dBi)

2. Based on the manufacturer's declaration, the device is a special case of MIMO system with two outputs driving a cross-polarized pair of linearly polarized antennas which are vertically/horizontally mounted on the main board as indicated in equipment photo exhibits. In addition, according to the antenna report provided by the manufacturer, horizontal and vertical antennas are cross-polarized antennas and the transmitting outputs are a 90-degree phase-shifted replica against the other and the phase centers of the two antennas' orientation are co-located.

Horizontal

Vertical

Ant. 2: 4.1

Ant. 4: 4.3

1.1.1 Antenna Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F)2)c)i)

Cross-polarized antennas. For a system in which the antennas have fixed orientations relative to one another that ensure that the antennas are cross-polarized regardless of any user actions, the directional gain is computed as follows.

(i) Cross-polarized antennas with NANT = 2. In the case of a transmitter with only two outputs driving a pair of antennas that are cross-polarized (e.g., vertical and horizontal or left-circular and right-circular), directional gain is the gain of an individual antenna. If the two antennas have different gains, the larger gain applies.

			DG	DG
	Vertical	Horizontal	for	for
	Ant 4	Ant 2	Power	PSD
	(dBi)	(dBi)	(dBi)	(dBi)
5925 MHz ~ 6425 MHz	4.40	3.90	4.40	4.40
6425 MHz ~ 6525 MHz	3.70	4.00	4.00	4.00
6525 MHz ~ 6875 MHz	4.10	3.60	4.10	4.10
6875 MHz ~ 7125 MHz	4.30	4.10	4.30	4.30

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

Calculation example:

If a device has two antenna, G_{ANT1}= 4.4dBi; G_{ANT2}=3.9dBi

Directional gain of power measurement = max(4.4, 3.9) = 4.4 dBi

Directional gain of PSD measurement = max(4.4, 3.9) = 4.4 dBi

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Location

Test Site	Sporton International (USA) Inc.			
Test Site Location	on 1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300			
Test Site No.	Sporton Site No.			
Test Site NO.	TH01-CA, CO01-CA, 03CH02-CA, DFS01-CA			

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

FCC Designation No.: US1250

1.4 Applicable Standards

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

- FCC Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- FCC KDB 987594 D02 U-NII 6 GHz EMC Measurement v01v01
- FCC KDB 414788 D01 Radiated Test Site v01r01.
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark: All the test items were validated and recorded in accordance with the standards without any modification during the testing.

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

DW COM	Channel	1	5	9	13	17	21	25	29	
BW 20M	Freq. (MHz)	5955	5975	5995	6015	6035	6055	6075	6095	
	Channel	3	3	1	1	1	9	2	7	
BW 40M	Freq. (MHz)	59	65	60	05	60	45	60	85	
BW 80M	Channel		7	7			2	3		
DVV OUIVI	Freq. (MHz)	5985 6065								
BW 160M	Channel	15								
BW TOOW	Freq. (MHz)		6				025			
	Channel	33	37	41	45	49	53	57	61	
BW 20M	Freq. (MHz)	6115	6135	6155	6175	6195	6215	6235	6255	
BW 40M	Channel	3	5	43		51		59		
	Freq. (MHz)	61	25	61	65 6205		205	6245		
BW 80M	Channel	39				5	55			
D VV OUIVI	Freq. (MHz)	6145				6225				
BW 160M	Channel	47								
	Freq. (MHz)				61	85				



BW 20M Channel 65 69 73 77 81 85 89 93 BW 40M Freq. (MHz) 6275 6395 6315 6355 6375 6395 6415 BW 40M Freq. (MHz) 6225 6325 6375 6375 6495 6415 BW 80M Channel		r r											
Freq. (MHz) 6275 6295 6315 6335 6375 6395 6395 6395 6395 6415 BW 40M Frq. (MHz) G=2	BW 20M	Channel	65	69	73	77	81	85	89	93			
BW 40M Freq. (MHz) 6285 6325 6365 64∪5 BW 80M Channel		Freq. (MHz)	6275	6295	6315	6335	6355	6375	6395	6415			
Freq. (MHz) 6285 6325 6365 6405 BW 80M Channel −71 87 Freq. (MHz) −6305 −79 BW 160M Channel 97 101 105 109 113 117 121 125 BW 20M Channel 97 101 105 109 113 117 121 125 BW 20M Channel 97 101 105 6495 6515 6535 6555 6575 BW 40M Channel 97 101 105 109 113 117 121 125 BW 80M Channel 97 101 105 6495 6515 6535 6555 6575 BW 80M Channel 97 101 105 109 113 117 121 123 BW 160 Channel 129 133 137 141 145 149 153 157 BW 20M Channel 129 133 137 141 145 149 153 157 BW 40M Channel 129 6355 6635 6655 6675 6695 6715 375 BW 20M	BW 40M	Channel	6	7	7	5	8	3	9	1			
BW 80M Freq. (MHz) Channel Gamel Second BW 160M Freq. (MHz)		Freq. (MHz)	62	85	63	25	63	65	64	05			
Freq. (MHz) G305 G335 BW 1600 Channel 97 101 105 109 113 117 121 125 BW 200 Channel 97 101 105 109 113 117 121 125 BW 200 Channel 97 101 105 6495 6495 6515 6535 6555 6575 BW 400 Channel 97 101 105 109 113 117 121 125 BW 400 Channel 97 017 6495 6515 6535 6555 6575 BW 800 Channel 99 07 113 117 121 123 BW 1600 Channel 129 133 137 141 145 149 153 157 BW 200 Channel 129 133 137 141 145 149 153 157 BW 400 Channel 129 133 137 141 145 149 153 157 BW 400 Channel 139 6635 6665 6675 6695 6715 6735 BW 160 Channel 161 169		Channel		7	1			8	7				
BW 160M Freq. (MHz) Image: Here integral state integ		Freq. (MHz)		63	05			63	85				
Freq. (MHz) Gaanel 97 101 105 109 113 117 121 125 BW 20M Freq. (MHz) 6435 6475 6495 6515 6535 6555 6575 BW 40M Channel 9.9 10.7 115 12.3 6455 6475 6495 6515 6535 6555 6575 BW 80M Channel 9.9 10.7 115 12.3 12.3 13.1 141 15.3 15.7 1.2 BW 80M Channel 12.9 6465 6475 6555 6555 6555 6555 6555 6555 6555 6555 6555 6555 6755 6715 6735 </th <th>BW 160M</th> <th>Channel</th> <th></th> <th></th> <th></th> <th>7</th> <th>9</th> <th></th> <th></th> <th></th>	BW 160M	Channel				7	9						
BW 20M Freq. (MHz) 6435 6455 6475 6495 6515 6535 6555 6575 BW 40M Freq. (MHz) 6435 6455 6475 6495 6515 6635 6655 6555 6555 6555 6555 6555 BW 80M Freq. (MHz) 6445 103 157 115 157 Freq. (MHz) 6445 6455 6675 6675 5675 57 BW 160M freq. (MHz) 129 133 137 141 145 149 153 157 BW 20M freq. (MHz) 6595 6615 6655 6675 6695 6715 6735 BW 20M Channel 129 133 137 141 145 149 153 157 BW 40M Channel 129 133 137 141 145 149 153 6755 BW 80M Freq. (MHz) 6595 6615 6655 6675 6695 6715 6715 6755 BW 100M Channel 131 137 133 177 181 185 189 BW 20M Channel 161 165 169 173 <td< th=""><th></th><th>Freq. (MHz)</th><th></th><th></th><th></th><th>63</th><th>45</th><th></th><th></th><th></th></td<>		Freq. (MHz)				63	45						
Freq. (MHz) 6435 6435 6495 6515 6535 6555 6575 BW 40M Channel 9 10 115 12 BW 80M Channel BW 100M Channel BW 100M Channel 129 133 137 141 145 149 153 157 BW 20M Channel 129 133 137 141 145 149 153 157 BW 20M Freq. (MHz) 6595 6615 6655 6675 6695 6715 6735 BW 40M Channel 129 133 137 141 145 149 153 157 BW 40M Freq. (MHz) 6595 6615 6655 6675 6695 6715 6735 BW 20M Channel 13		Channel	97	101	105	109	113	117	121	125			
BW 40M Freq. (MHz) 6445 6652 6556 BW 80M Freq. (MHz)	BW 20M	Freq. (MHz)	6435	6455	6475	6495	6515	6535	6555	6575			
Freq. (MHz) 6445 6625 6657 6656 BW 80M Channel	B 14 ()		9	9	1	07	1	15	12	23			
BW 80M Freq. (MHz) Gennel Gennel Second BW 160M Channel 129 133 137 141 145 149 153 157 BW 20M Channel 129 133 137 141 145 149 153 157 BW 20M Channel 129 133 137 141 145 149 153 157 BW 40M Channel 129 6615 6635 6675 6695 6715 6735 BW 80M Channel 13' 139' 14' 145 149 153 157 BW 80M Channel 13' 6635 6675 6695 6715 6735 BW 80M Channel 13' 139' 14' 145' 149' 155' BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 6895 BW 20M Channel 165 6755 6755 6755 6815 6835 6855 6855 6895 BW 20M Channel 163 <th>BW 40M</th> <th>Freq. (MHz)</th> <th>64</th> <th>45</th> <th>64</th> <th>85</th> <th>65</th> <th>525</th> <th>65</th> <th>65</th>	BW 40M	Freq. (MHz)	64	45	64	85	65	525	65	65			
Freq. (MHz) G465 G545 BW 160M Channel 129 133 137 141 145 149 153 157 BW 20M Freq. (MHz) 6595 6615 6655 6675 6695 6715 6735 BW 40M Channel 137 133 137 141 145 149 153 157 BW 40M Freq. (MHz) 6595 6615 6655 6675 6695 6715 6735 BW 80M Channel 137 133 137 141 145 149 153 157 BW 80M Channel 137 133 137 141 145 149 153 6735 BW 20M Channel 137 139 147 155 57 57 BW 20M Channel 161 165 169 173 177 181 189 BW 20M Channel 167 6755 6795 6815 6835 6875 6895 BW 40M Channel 163 169 173 177 181 189 BW 40M Channel 165 6795 6815 6835 6855 6875	DW COM	Channel		1(03			11	19				
BW 160M Freq. (MHz) Image: Second S	BM 80M	Freq. (MHz)		64	65			65	45				
Freq. (MHz) Image: Heigen straig strate straig straig straig straig s		Channel				1′	11						
BW 20M Freq. (MHz) 6595 6615 6635 6675 6695 6715 6735 BW 40M Channel 131 139 147 15 15 BW 80M Freq. (MHz) 6605 6615 6675 6695 6715 6735 BW 80M Channel 137 139 147 155 6775 6775 6775 6775 6775 6775 6775 6775 6775 6775 6775 6775 6795 6815 6855 6875 6895	BW 100W	Freq. (MHz)				65	05						
Freq. (MHz) 6595 6615 6635 6675 6695 6715 6735 BW 40M Channel 13' 13' 14' 6595 6675 6695 6715 6735 BW 80M Channel $13'$ $665'$ 6675 6695 6695 6715 6735 BW 80M Channel $-13'$ $665'$ $665'$ $667'$ $669'$ $6715'$ $673'$ BW 160M Channel $-13'$ $-13'$ $-14'$ $-15'$ $-15'$ $-15'$ BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 40M Channel 163' 6755 6755 6755 6835 6835 6855 6875 6895 6895 BW 80M Channel $-16'$ $-5'$ $-5'$ $-5'$ $-5'$ $-5'$ BW 160M Channel $-5'$ $-5'$ $-5'$ <th>DW cold</th> <th>Channel</th> <th>129</th> <th>133</th> <th>137</th> <th>141</th> <th>145</th> <th>149</th> <th>153</th> <th>157</th>	DW cold	Channel	129	133	137	141	145	149	153	157			
BW 40M Freq. (MHz) 6605 6644 6683 6725 BW 80M Channel 135 56645 56645 56725 BW 80M Channel 5625 5702 5702 5702 BW 160M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 6775 6795 6815 6835 6855 6875 6895 BW 40M Channel 161 165 16795 6815 6835 6855 6875 6895 BW 80M Channel 167 173 177 181 182 189 BW 80M Channel 167 6815 6825 6825 5637 5637 BW 80M Channel 167 9 17 183 5636 <th< th=""><th>BW 20M</th><th>Freq. (MHz)</th><th>6595</th><th>6615</th><th>6635</th><th>6655</th><th>6675</th><th>6695</th><th>6715</th><th>6735</th></th<>	BW 20M	Freq. (MHz)	6595	6615	6635	6655	6675	6695	6715	6735			
Freq. (MHz) 6605 6645 6685 6725 BW 80M Channel 135 5625 5705 5705 BW 160M Channel I61 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 6755 6755 6755 6815 6835 6855 6875 6895 BW 40M Channel 161 165 169 173 177 181 185 189 BW 80M Channel 163 6755 6755 6805 6815 6855 6875 6895 BW 160M Channel 167 173 177 181 185 189 BW 80M Channel 163 675 6885 6875 6885 6875		Channel	13	31	13	139		47	15	55			
BW 80M Freq. (MHz) 6625 6705 BW 160M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 6815 6835 6875 6895 BW 40M Channel 161 165 169 171 181 185 189 BW 40M Channel 1675 6775 6795 6815 6835 6855 6875 6895 BW 80M Channel 167 179 181 185 189 BW 160M Channel 167 6805 6835 6875 6895 BW 160M Channel 167 187 <th187< th=""> <th187< th=""> 181</th187<></th187<>		Freq. (MHz)	66	05	6645		6685		6725				
Freq. (MHz) 6625 6705 BW 160M Channel -143 -143 Freq. (MHz) -161 165 169 173 177 181 185 189 BW 20M Channel 161 165 169 173 177 181 185 189 BW 20M Channel 161 165 6795 6815 6835 6855 6875 6895 BW 40M Channel 161 165 6795 6795 6815 6855 6875 6895 BW 40M Channel 163 177 177 181 185 189 BW 80M Channel 163 6785 6805 6845 6855 6855 6855 5685 BW 160M Channel -167 -176 -183 -183 BW 160M Channel -1678 -5785 -5865 -5865 -5865		Channel		13	35			15	151				
BW 160M Freq. (MHz)		Freq. (MHz)		66	25			67	05				
Freq. (MHz) Freq. (MHz) Freq. (MHz) 161 165 169 173 177 181 185 189 BW 20M Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 40M Channel 1 63 6775 6795 6815 6835 6855 6875 6895 BW 80M Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 80M Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 80M Ghannel 163 167 6835 6855 6875 6895 BW 160M Channel 167 167 167 167 167 173 177 181 185 189 BW 160M Channel 167 167 167 167 175 175 175 175 175	BW 160M	Channel				14	43						
BW 20M Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 40M Channel 163 171 179 187 187 BW 80M Channel 6755 6775 6795 6815 6835 6855 6875 6895 BW 80M Channel 167 6805 6815 6835 6875 6895 BW 80M Channel -167 6805 6845 6875 6895 BW 80M Channel -167 -167 -183 -183 -183 BW 160M Channel -167 -175 -175 -175 -175 -183		Freq. (MHz)				66	65						
Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 40M Channel 163 171 179 187 Freq. (MHz) 6755 6775 6795 6815 6835 6855 6875 6895 BW 80M Channel 167 6805 6845 6885 6875 6895 BW 80M Channel 167 6805 6845 6875 6895 BW 80M Channel 167 6805 6805 6805 6805 BW 160M Channel 5785 5785 5785 5785 5785	DW/ COM	Channel	161	165	169	173	177	181	185	189			
BW 40M Freq. (MHz) 6765 6805 6845 6885 BW 80M Channel 167 183 Freq. (MHz) 6765 6805 6845 6885 BW 80M Freq. (MHz) 6765 183 BW 160M Channel 175 5000	BW 20W	Freq. (MHz)	6755	6775	6795	6815	6835	6855	6875	6895			
Freq. (MHz) 6765 6805 6845 6885 BW 80M Channel 167 183 Freq. (MHz) 6785 6885 6885 BW 160M Channel 167 6865	DW 40M	Channel	163		1	71	1	79	18	37			
BW 80M Freq. (MHz) 6785 6865 BW 160M Channel 175	BW 40W	Freq. (MHz)	67	65	68	805	68	345	68	85			
Freq. (MHz) 6785 6865 BW 160M Channel 175		Channel		10	67			18	33				
BW 160M	BW 80M			07	285								
Freq. (MHz) 6825	BAA SOIM	Freq. (MHz)											
				67	00	17	75						



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	2′	11	2	19	
	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				07			
BAA LOOIAL	Freq. (MHz)	6985								
BW 20M	Channel		22	25			22	29		
	Freq. (MHz)		70	75		7095				
BW 40M	Channel	227								
B V 40 W	Freq. (MHz)				70	85				

2.2 Test Mode

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

мім	0	Mode
	-	mouc

Modulation	Data Rate			
802.11a	6 Mbps			
802.11n HT20 (Covered by HE20)	MCS0			
802.11n HT40 (Covered by HE40)	MCS0			
802.11ac VHT20 (Covered by HE20)	MCS0			
802.11ac VHT40 (Covered by HE40)	MCS0			
802.11ac VHT80 (Covered by HE80)	MCS0			
802.11ac VHT160 (Covered by HE160)	MCS0			
802.11ax HE20	MCS0			
802.11ax HE40	MCS0			
802.11ax HE80	MCS0			
802.11ax HE160	MCS0			

Remark:

- 1. Based on the manufacturer's declaration, 802.11ax covers the 802.11n and 11ac due to the same modulation family scheme. For 802.11ax, only full resource unit assignment mode is tested since the EUT does not support partial resource unit assignment mode.
- Based on the manufacturer's declaration, RF power on each chain in MIMO mode is parameterized to be greater than the power in SISO mode, giving the condition that the SISO Mode is covered by MIMO Mode which is deemed the worse case selected for testing.



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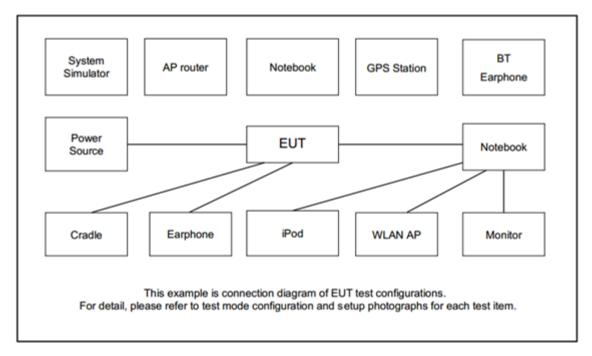
	Test Cases							
	AC Inducted mission	Mode 1: WLAN (6G Adapter	Hz) Link + LAN 1 Link	: + LAN 2 Link + USB I	Dongle (Load) + PoE			
	Ch. #	UNII-5 UNII-6 (5925-6425 MHz) (6425-6525 MHz) 802.11a 802.11a		UNII-7 (6525-6875 MHz) 802.11a	UNII-8 (6875-7125 MHz) 802.11a			
L	Low	001	097	117	189			
м	Middle	045	105	149	209			
н	High	093	113	181	229			
9	Straddle	-	-	185	-			
	Ch. #	UNII-5 (5925-6425 MHz) 802.11ax HE20		UNII-8 (6875-7125 MHz) 802.11ax HE20				
L	Low	00	001		-			
М	M Middle -							
н	High		-	229				
	Ch. #	UNII-5 (5925-6425 MHz) 802.11ax HE40		UNII-8 (6875-7125 MHz) 802.11ax HE40				
L	Low	00)3	-				
М	Middle		-	-				
н	High		-	227				
	Ch. #	UNII-5 (5925-6425 MHz) 802.11ax HE80		UNII-8 (6875-7125 MHz) 802.11ax HE80				
L	Low	00						
м	Middle		-	-	-			
Н	High		-	21	15			



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			
5	Straddle	-	111	175	-

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

2.3 Connection Diagram of Test System





2.4 Support Unit used in test configuration and system

ltem	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	PoE Adapter	Ruckus	740-64214-001	NA	NA	Unshielded, 1.8m
2.	USB Dongle	SanDisk	SDCZ60-016G	NA	NA	NA
3.	Notebook	Lenovo	20BX001CUS	NA	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Notebook	Lenovo	21EB0020US	NA	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
5.	Notebook	Acer	Altos PS548-G1	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 "PuTTY Release 0.75" 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.

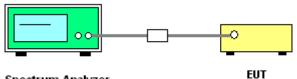
3.1.2 Measuring Instruments

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
- 6. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.
- 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



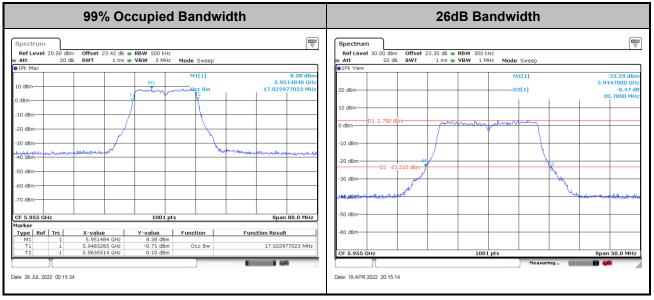
3.1.5 Test Result of 26dB & 99% Occupied Bandwidth

Please refer to Appendix A.

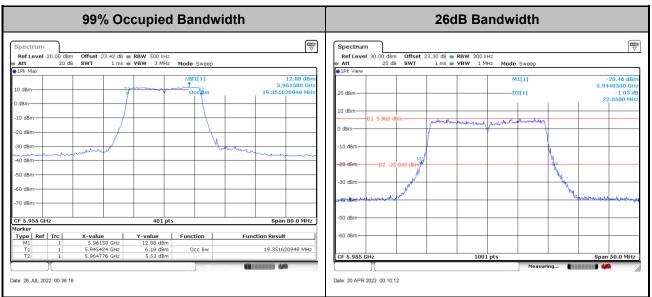


MIMO <Ant. 4+2>

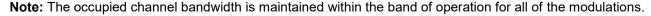
<802.11a>



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

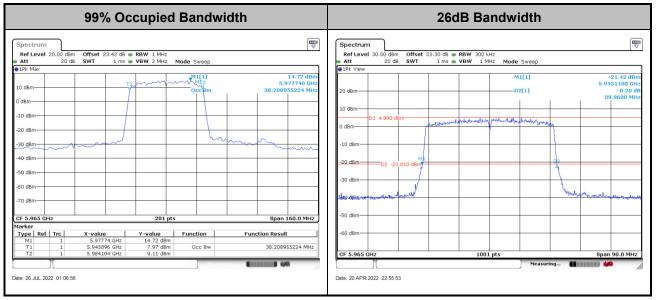


<802.11ax HE20>



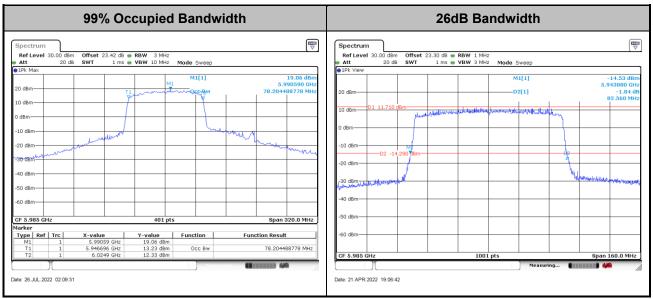


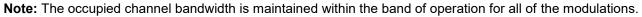
<802.11ax HE40>



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

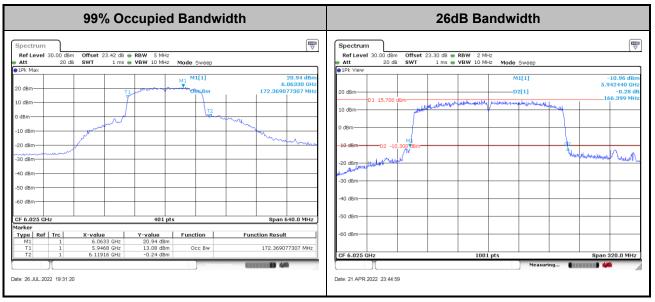
<802.11ax HE80>







<802.11ax HE160>



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



3.2 Fundamental Maximum EIRP Measurement

3.2.1 Limit of Fundamental Maximum EIRP

<FCC 14-30 CFR 15.407>

(a)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

3.2.2 Measuring Instruments

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

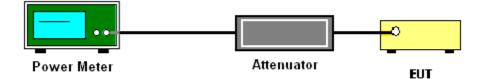
3.2.3 Test Procedures

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)(5) For an indoor access point operating in the 5.925-7.125 GHz band, the maximum power spectral density must not exceed 5 dBm e.i.r.p. in any 1-megahertz band. In addition, the maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm

3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

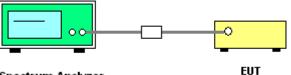
Section F) Maximum power spectral density.

Method SA-2

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

- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add 10 log(1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add 10 log(1/0.25) = 6 dB if the duty cycle is 25 percent.
- 1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
- 2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.

3.3.4 Test Setup



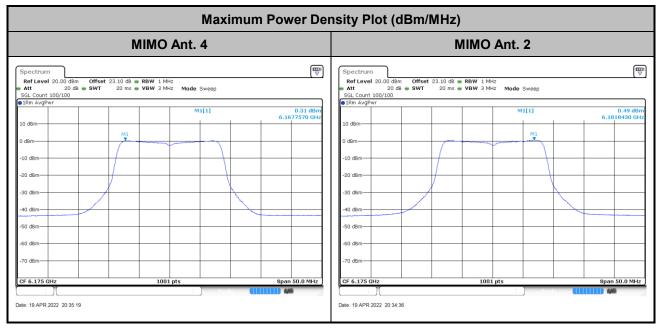
Spectrum Analyzer



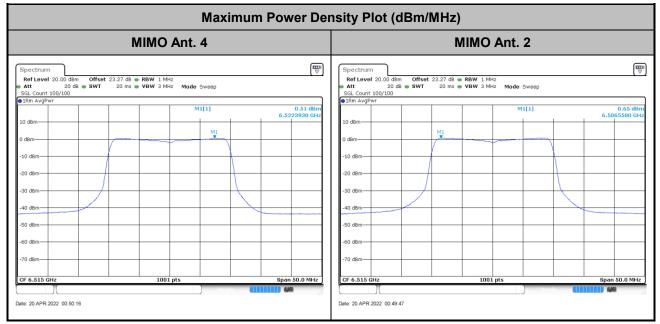
3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

<802.11a 6175MHz>



<802.11ax HE20 6515MHz>

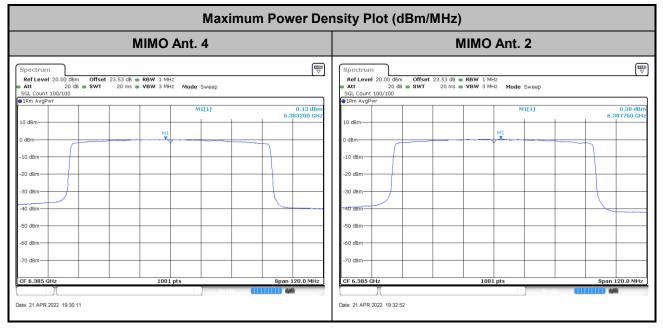




<802.11ax HE40 7085MHz>

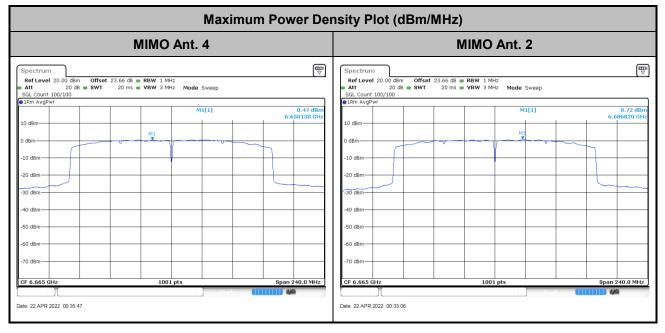


<802.11ax HE80 6385MHz>





<802.11ax HE160 6665MHz>





3.4 In-Band Emissions (Channel Mask)

3.4.1 Limit of Unwanted Emissions

<FCC 14-30 CFR 15.407>

(b)(5)(i) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

(b)(6) For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

(b)(7) 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.

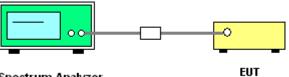
FCC RADIO TEST REPORT

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

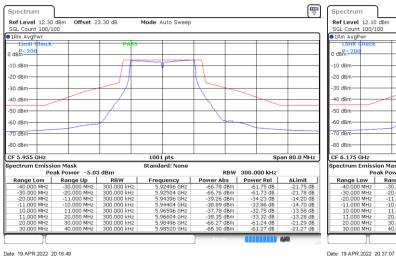


3.4.5 Test Result

MIMO <Ant. 4+2(4)>

EUT Mode :	802.11a

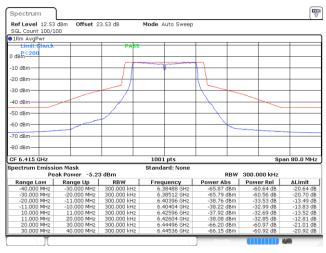
Plot on Channel 5955MHz





Date: 19.APR.2022 20:16:49

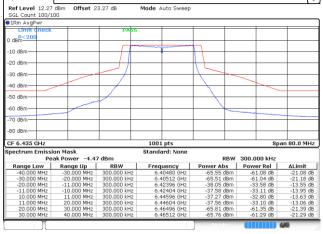
Plot on Channel 6415MHz





Plot on Channel 6435MHz

Plot on Channel 6175MHz

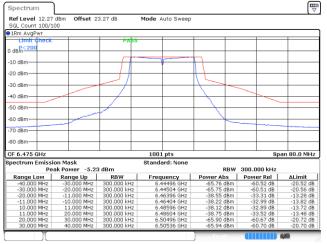


Date: 19.APR.2022 20:42:56

Date: 19.APR.2022 20:29:11



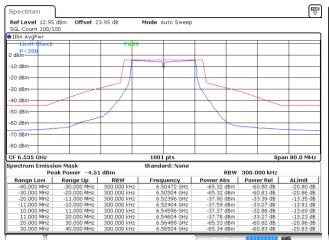
Plot on Channel 6475MHz



₽ Spectrum Ref Level 12.27 SGL Count 100/1 Offset 23.27 dB Mode Auto Sweep 100/100 n AvgP dBm²²⁰ -10 dBm -20 dBm--30 dBm 40 dBm-50 dBm -60 dBm--70 dBm--80 dBm-CF 6.515 GHz 1001 pts 80.0 MH Spar Spectrum Emission Mask Standard: None -4.70 dB 300.000 kHz RBW Peak Pov RBW Ange Low Range Up Frequency Power Abs Power Rel 5.48488 GHz 5.48520 GHz 5.0396 GHz 5.50404 GHz 5.52596 GHz 5.52596 GHz 5.52604 GHz 5.54496 GHz 5.54520 GHz MHZ MHZ MHZ) MH2 300.000 300.000 300.000 300.000 300.000 300.000 dBn dBn 60.95 dB 33.52 dB 33.14 dB 32.80 dB de de

Date: 19.APR.2022 20:53:42

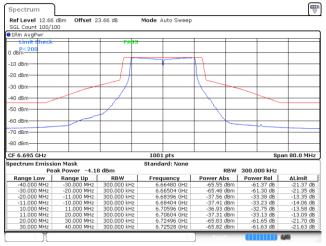
Plot on Channel 6535MHz



Date: 19.APR.2022 21:04:13

Plot on Channel 6695MHz

Plot on Channel 6515MHz

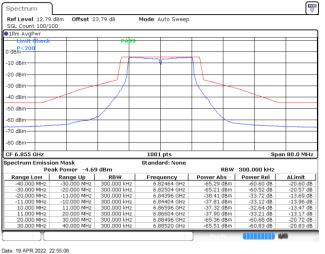


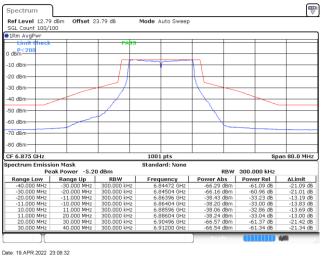
Date: 19.APR.2022 22:40:58

Plot on Channel 6855MHz

Date: 19.APR.2022 22:48:13

Plot on Channel 6875MHz

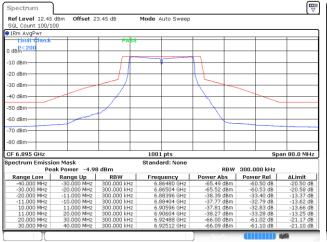




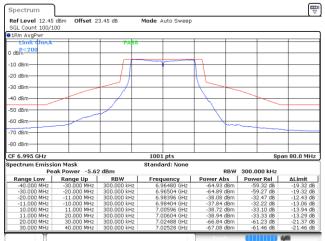
TEL : 408-904-3300 Report Template No.: BU5-FR15EWLAC MA Version 1.0.0 Page Number Issue Date Report Version : 26 of 87 : Oct. 13, 2022 : 02



Plot on Channel 6895MHz



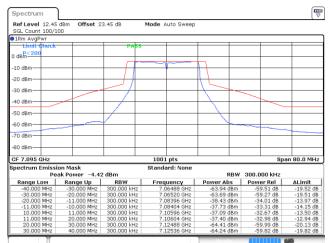
Plot on Channel 6995MHz



Date: 19.APR.2022 23:40:19

Plot on Channel 7095MHz

Date: 19.APR.2022 23:29:49



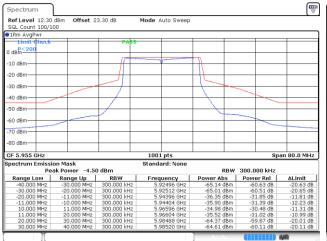
Date: 22.APR.2022 19:27:33



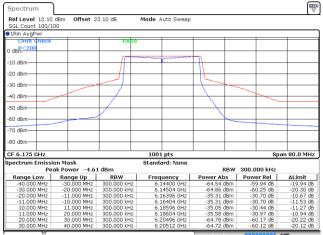
EUT Mode :

802.11ax HE20

Plot on Channel 5955MHz



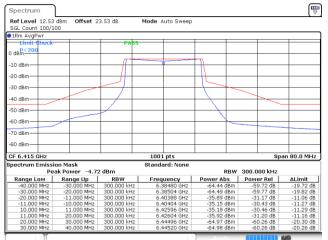
Plot on Channel 6175MHz



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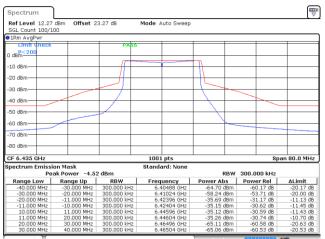
Date: 20.APR.2022 00:20:29

Plot on Channel 6415MHz



Date: 20.APR.2022 00:30:09

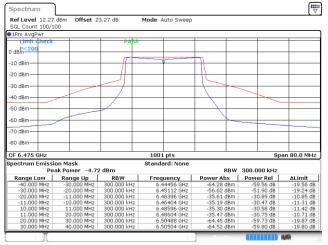
Plot on Channel 6435MHz



Date: 20.APR.2022 00:38:08



Plot on Channel 6475MHz



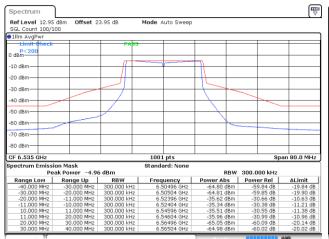
Spectrum Ref Level 12.27 SGL Count 100/1 Offset 23.27 dB Mode Auto Sweep 100/100 m AvgP 1 dBm 20 -10 dBm -20 dBm--30 dBm-40 dBm--50 dBm -60 dBm -70 dBm--80 dBm-CF 6.515 GHz 1001 pts 0.0 MH Spai pectrum Emission Mask Standard: None -4.64 dB 300.000 kH; RBW Peak Power -4.6.4 Range Low Range Up -40.000 MHz -30.000 MHz -30.000 MHz -20.000 MHz -20.000 MHz -11.000 MHz -11.000 MHz -11.000 MHz 10.000 MHz -10.000 MHz 20.000 MHz -10.000 MHz 20.000 MHz -10.000 MHz 20.000 MHz 10.000 MHz 30.000 MHz 30.000 MHz Peak Pow RBW Frequency Power Abs Power Rel 300.000 kHz 5.48448 GHz 5.48504 GHz 5.50396 GHz 5.50404 GHz 5.52596 GHz 5.52604 GHz 5.54496 GHz 5.54528 GHz -64.68 -64.73 -35.81 -35.17 -34.86 -35.33 -64.80 -64.80 dBm dBm dBm dBm dBm dBm -60.08 -31.17 -30.53 -30.22 13 dB 13 dB

Date: 20.APR.2022 00:45:27

Date: 20.APR.2022 01:08:48

Plot on Channel 6855MHz

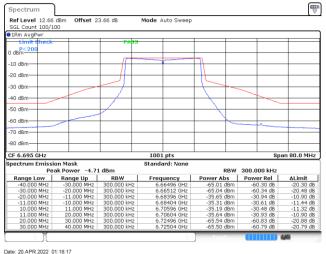
Plot on Channel 6535MHz



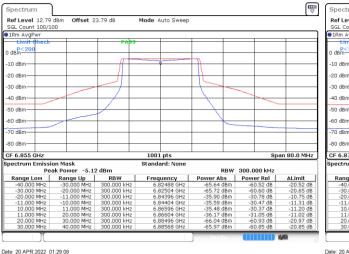
Date: 20.APR.2022 00:54:06

Plot on Channel 6695MHz

Plot on Channel 6515MHz



Plot on Channel 6875MHz



♥ Spectrum Ref Level 12.79 dB SGL Count 100/100 1Rm AvgPwr Offset 23.79 dB Mode Auto Sweet) dBm -10 dBm -20 dBm--30 dBm 40 dBm -60 dBm 80 dBm-CF 6.875 1001 pts <u>ю о мн</u> pectrum Em ission Mask Standard: No -5.82 dB RBW 300.000 kHz Range Low Frequency Power Abs Power Rel Range Up RBW 300.000 300.000 300.000 300.000 300.000 300.000 -66.07 dBn -66.01 dBn -36.68 dBn -36.23 dBn -36.37 dBn -37.19 dBn -66.34 dBn -66.41 dBn 6.84408 GHz 6.84504 GHz 6.86396 GHz 6.86404 GHz 6.88596 GHz 6.88604 GHz 6.90480 GHz MH2 MH2 MH2 MH2 MH2 MH2 -60.25 dB -60.19 dB -30.86 dB -30.41 dB -30.55 dB -31.37 dB -60.52 dB -60.59 dB 20.24 dB -10.83 dB -11.25 dB -11.38 dB) MHz) MHz) MHz) MHz) MHz) MHz kHz kHz kHz kHz kHz kHz .000 Date: 20.APR.2022 01:41:28

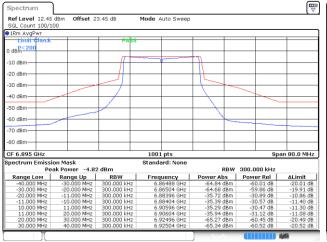
TEL : 408-904-3300 Report Template No.: BU5-FR15EWLAC MA Version 1.0.0

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Report Version	

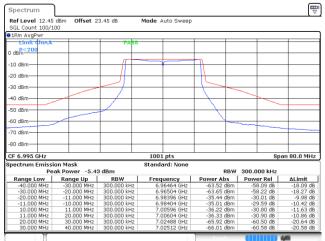
: 29 of 87
: Oct. 13, 2022
: 02



Plot on Channel 6895MHz



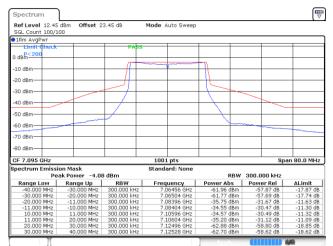
Plot on Channel 6995MHz



Date: 20.APR.2022 01:56:06

Plot on Channel 7095MHz

Date: 20.APR.2022 01:50:30



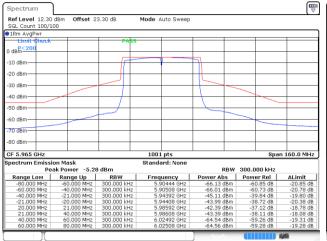
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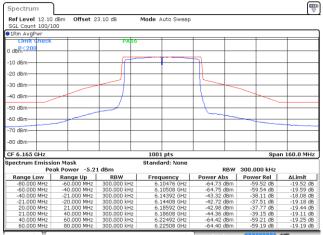
EUT Mode :

802.11ax HE40

Plot on Channel 5965MHz



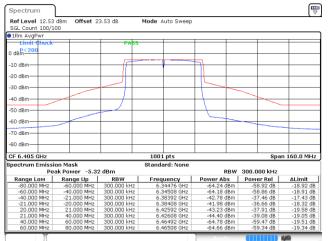
Plot on Channel 6165MHz



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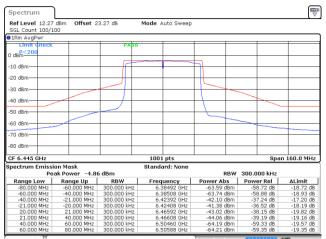
Date: 20.APR.2022 23:14:29

Plot on Channel 6405MHz



Date: 20.APR.2022 23:33:39

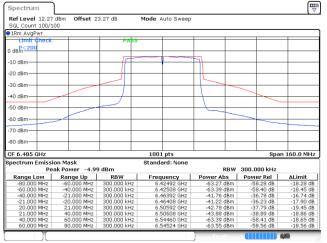
Plot on Channel 6445MHz



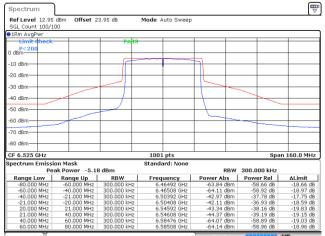
Date: 21.APR.2022 00:14:47



Plot on Channel 6485MHz

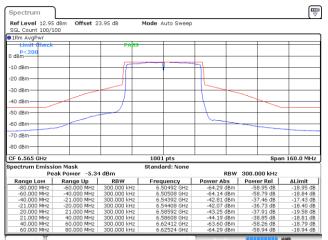


Plot on Channel 6525MHz



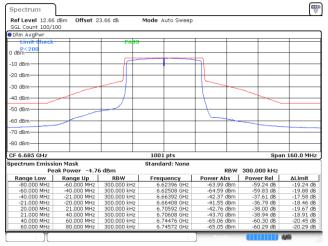
Date: 21.APR.2022 00:27:15

Plot on Channel 6565MHz



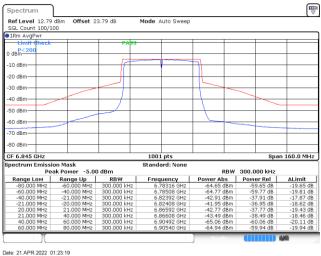
Date: 21.APR.2022 02:21:03

Plot on Channel 6685MHz



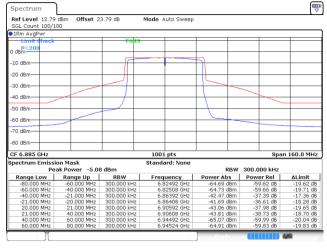
Date: 21.APR.2022 00:56:32

Plot on Channel 6845MHz





Plot on Channel 6885MHz





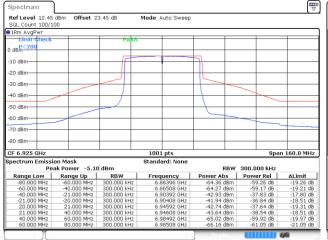
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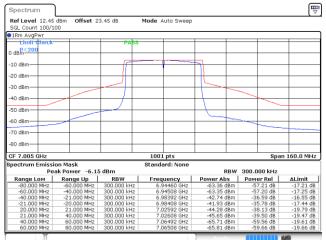
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Plot on Channel 6925MHz



Plot on Channel 7005MHz



Date: 21.APR.2022 01:52:09

Plot on Channel 7085MHz

Date: 21.APR.2022 01:36:20

Ref Level 12.45	dBm Offset 2	0.45.40	Mode Auto Sweep			
SGL Count 100/1		3.45 dB	Mode Auto Sweep			
1Rm AvgPwr	00					
Linnit Check		PASS				
dBm 200						_
				L		
10 dBm		+ 11				
		1 11				
20 dBm						
30 dBm						
Jo dom						
40 dBm		+ / +			_	
						-
50 dBm						
60 dBm						
ou ubili						
70 dBm						-
		1 1				
80 dBm						-
F 7.085 GHz			1001			. 160.0 100
			1001 pts		spa	n 160.0 MHz
pectrum Emissi			Standard: None			
Pe	ak Power -4.5			RBW	300.000 kHz	
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	∆Limit
-80.000 MHz	-60.000 MHz	300.000 kHz	7.02380 GHz	-61.71 dBm	-57.20 dB	-17.20 dB
	-40.000 MHz	300.000 kHz	7.02508 GHz	-62.06 dBm	-57.56 dB	-17.61 dB
-60.000 MHz		300.000 kHz	7.06392 GHz	-41.15 dBm	-36.64 dB	-16.61 dB
-60.000 MHz -40.000 MHz	-21.000 MHz			-40.43 dBm	-35.92 dB	-17.59 dB
-60.000 MHz -40.000 MHz -21.000 MHz	-20.000 MHz	300.000 kHz	7.06408 GHz	10 10 ID		
-60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz	-20.000 MHz 21.000 MHz	300.000 kHz	7.10592 GHz	-42.10 dBm	-37.60 dB	
-60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz 21.000 MHz	-20.000 MHz 21.000 MHz 40.000 MHz	300.000 kHz 300.000 kHz	7.10592 GHz 7.10608 GHz	-43.14 dBm	-38.63 dB	-18.60 dB
-60.000 MHz -40.000 MHz -21.000 MHz 20.000 MHz	-20.000 MHz 21.000 MHz	300.000 kHz	7.10592 GHz			-19.26 dB -18.60 dB -17.64 dB -17.71 dB

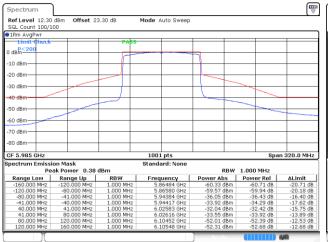
Date: 21.APR.2022 02:09:54



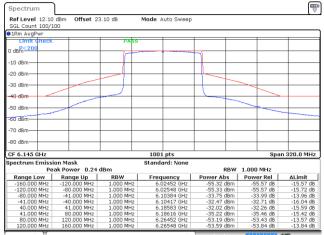
EUT Mode :

802.11ax HE80

Plot on Channel 5985MHz



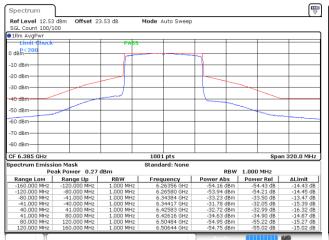
Plot on Channel 6145MHz



Date: 21.APR.2022 19:11:32

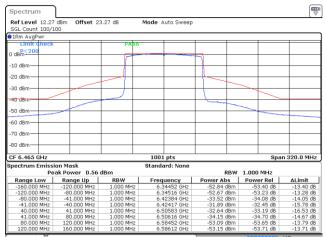
Date: 21.APR.2022 19:18:08

Plot on Channel 6385MHz



Date: 21.APR.2022 19:36:40

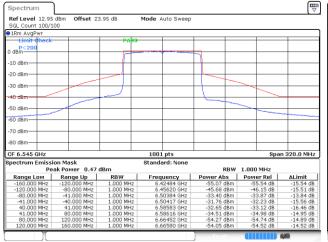
Plot on Channel 6465MHz



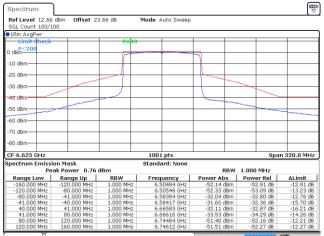
Date: 21.APR.2022 19:50:05



Plot on Channel 6545MHz



Plot on Channel 6625MHz



Date: 21.APR.2022 19:58:42

Plot on Channel 6705MHz

Spectrum Ref Level 12.66 dBm SGL Count 100/100 1Rm AvgPwr Offset 23.66 dB Mode Auto Sweep 0 dBm -10 dBm--20 dBm--30 dBm-40 dBm--50 dBm-60 dBm 70 dBm--mah Os CF 6.705 GHz 1001 pts 320.0 MHz Spar ectrum Emission Mask Peak Power 0.54 dBm RBW 1.000 MHz Range Low Range Up Frequency Po Abs Power Rel 5 dBm -53.09 d 53.09 de 52.74 de 53.50 de 53.50 de -120.00 -80.00 -41.00 dBm dBm dBm dBm dBm dBm MH MH MH MH MH GHz GHz .58516 .66384 .66417 3Hz 3Hz 3Hz 3Hz -31.72 -32.41 -34.48 -51.21 -51.33 dB dB dB dB 14.98 11.89 11.86 dB dB dB

lot on (Channe	I 6785	MHz			
Spectrum	1					E
Ref Level 12.79 SGL Count 100/1		3.79 dB	Mode Auto Sweep			
1Rm AvgPwr						
Limit theck		PABB				_
dBm						
10 dBm						
20 dBm						
LO GDIII						
30 dBm						
40 dBm						
50 dBm	and the second s				- marine and a second	
50 dBm						
50 dBm						
70 dBm						
R0 dBm						
SU dBm						
F 6.785 GHz		· · · ·	1001 pts		Spa	n 320.0 MHz
oectrum Emissi	on Mask		Standard: None			
	ak Power 0.30	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	6.66228 GHz	-53.35 dBm	-53.66 dB	-13.66 dB
-120.000 MHz	-80.000 MHz	1.000 MHz	6.66548 GHz	-53.22 dBm	-53.53 dB	-13.67 dB
-80.000 MHz	-41.000 MHz	1.000 MHz	6.74384 GHz	-33.34 dBm	-33.64 dB	-13.61 dB
-41.000 MHz	-40.000 MHz	1.000 MHz	6.74417 GHz	-31.84 dBm	-32.14 dB	-15.47 dB
40.000 MHz	41.000 MHz	1.000 MHz	6.82583 GHz	-32.68 dBm	-32.99 dB	-16.32 dB
41.000 MHz	80.000 MHz	1.000 MHz	6.82616 GHz	-34.29 dBm	-34.60 dB	-14.56 dB
80.000 MHz	120.000 MHz	1.000 MHz	6.90452 GHz	-52.38 dBm	-52.68 dB	-12.83 dB
120.000 MHz	160.000 MHz	1.000 MHz	6.90548 GHz	-52.70 dBm	-53.00 dB	-13.00 dB

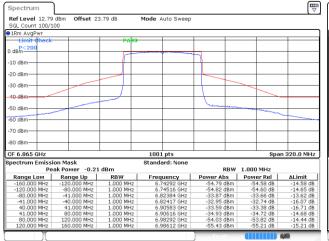
Date: 21.APR.2022 20:22:32

Date: 21.APR.2022 20:32:38

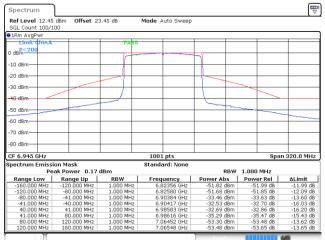
Date: 21.APR.2022 20:11:54



Plot on Channel 6865MHz



Plot on Channel 6945MHz



Date: 21.APR.2022 20:51:54

Plot on Channel 7025MHz

Date: 21.APR.2022 20:45:46

Ref Level 12.45	dBm Offset 23	.45 dB	Mode Auto Sweep			
5GL Count 100/1		.10 00	House Hate Sheep			
1Rm AvgPwr						
timit theat		PASS				
) dBm ²²⁰⁰						-
10 dBm						
10 0Bm						
20 dBm						_
30 dBm						
40. dBm						
40.060						
50 dBm						
60 dBm						
70 dBm						
JU UBIII						
80 dBm						_
CF 7.025 GHz			1001 pts		Spa	n 320.0 MH
pectrum Emissi			Standard: None			
Pe	ak Power -1.26	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	6.90196 GHz	-48.23 dBm	-46.97 dB	-6.97 dE
-120.000 MHz	-80.000 MHz	1.000 MHz	6.90516 GHz	-48.06 dBm	-46.81 dB	-6.85 dE
-80.000 MHz	-41.000 MHz	1.000 MHz	6.98384 GHz	-31.92 dBm	-30.66 dB	-10.63 dE
-41.000 MHz	-40.000 MHz	1.000 MHz	6.98417 GHz	-30.54 dBm	-29.28 dB	-12.61 dE
	41.000 MHz	1.000 MHz	7.06583 GHz	-32.40 dBm	-31.14 dB	-14.48 dE
40.000 MHz	80.000 MHz	1.000 MHz	7.06616 GHz	-34.37 dBm	-33.11 dB	-13.08 dE
	80.000 MHZ					
40.000 MHz	120.000 MHz	1.000 MHz	7.14484 GHz	-48.79 dBm	-47.53 dB	-7.57 dE

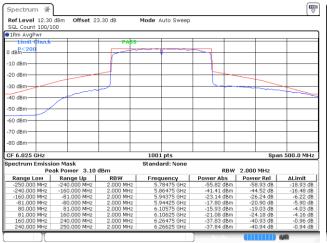
Date: 21.APR.2022 20:59:26



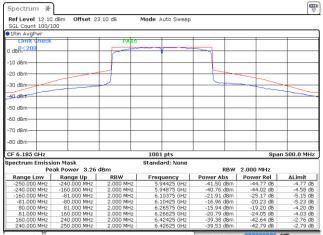
EUT Mode :

802.11ax HE160

Plot on Channel 6025MHz



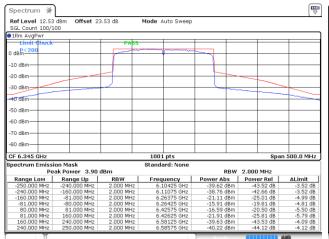
Plot on Channel 6185MHz



Date: 21.APR.2022 23:47:37

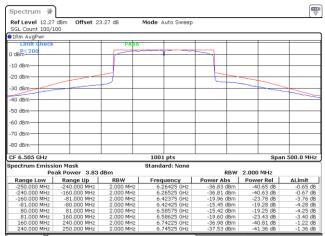
Date: 21.APR.2022 23:31:40

Plot on Channel 6345MHz



Date: 22.APR.2022 00:03:06

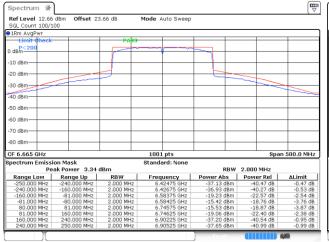
Plot on Channel 6505MHz



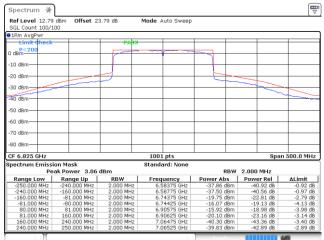
Date: 22.APR.2022 00:22:17



Plot on Channel 6665MHz



Plot on Channel 6825MHz



Date: 22.APR.2022 01:03:46

Plot on Channel 6985MHz

Date: 22.APR.2022 00:42:15

Ref Level 12.45	dBm Offset 23	45 dB	Mode Auto Sweep			
5GL Count 100/1		.45 GD	Houe Auto Sweep			
1Rm AvgPwr						
Limit dinesk		PASS				
		r mpo				
) dBm 200						
10 dBm						
20 dBm						
20 000						
30 dBm						-
40 dBm						
FO dD-						
50 dBm						
60 dBm						
70 dBm						
80 dBm						
CF 6.985 GHz			1001 pts		Spa	n 500.0 MH
pectrum Emissi	on Mask		Standard: None			
Pe	ak Power 3.46 d	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	6.74375 GHz	-36.69 dBm	-40.15 dB	-0.15 dB
-240.000 MHz	-160.000 MHz	2.000 MHz	6.75025 GHz	-36.08 dBm	-39.54 dB	-0.33 dE
-160.000 MHz	-81.000 MHz	2.000 MHz	6.90375 GHz	-18.47 dBm	-21.93 dB	-1.90 de
-81.000 MHz	-80.000 MHz	2.000 MHz	6.90425 GHz	-15.08 dBm	-18.54 dB	-3.54 dE
80.000 MHz	81.000 MHz	2.000 MHz	7.06575 GHz	-16.51 dBm	-19.97 dB	-4.97 dE
81.000 MHz	160.000 MHz	2.000 MHz	7.06625 GHz	-20.34 dBm	-23.80 dB	-3.78 dE
	240.000 MHz	2.000 MHz	7.22375 GHz	-36.83 dBm	-40.29 dB	-0.48 dE
160.000 MHz 240.000 MHz	250.000 MHz	2.000 MHz	7.22575 GHz	-36,80 dBm	-40.26 dB	-0.26 dB

Date: 22.APR.2022 01:27:28

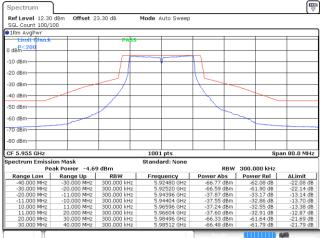


MIMO <Ant. 4+2(2)>

EUT Mode :

802.11a

Plot on Channel 5955MHz



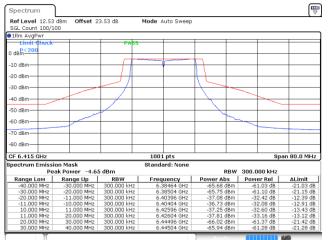
Plot on Channel 6175MHz



Date: 19.APR.2022 20:14:37

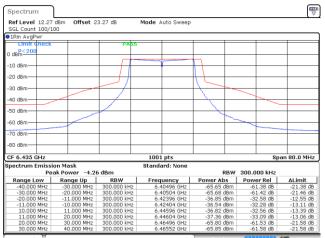
Date: 19.APR.2022 20:38:50

Plot on Channel 6415MHz



Date: 19.APR.2022 20:47:25

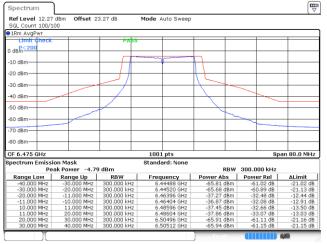
Plot on Channel 6435MHz



Date: 19.APR.2022 20:33:14



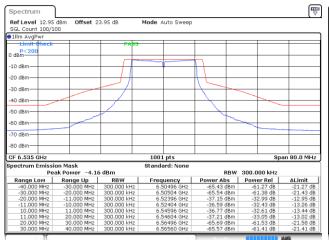
Plot on Channel 6475MHz



Spectrum Ref Level 12.27 SGL Count 100/1 Offset 23.27 dB Mode Auto Sweep 100/100 m AvgP dBm²²⁰ -10 dBm -20 dBm--30 dBm-40 dBm--50 dBm -60 dBm--70 dBm--80 dBm-CF 6.515 GHz 1001 pts 80.0 MH Spar Spectrum Emission Mask Standard: None -4.13 dB 300.000 kH; RBW Peak Pow RBW Frequency Power Abs Power Rel 5.48472 GHz 5.48504 GHz 5.50396 GHz 5.50404 GHz 5.52596 GHz 5.52604 GHz 5.54496 GHz 5.54536 GHz 300.000 300.000 300.000 300.000 300.000 300.000 300.000 .40 dBr

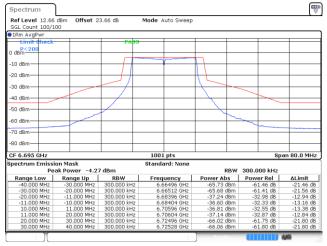
Date: 19.APR.2022 20:57:41

Plot on Channel 6535MHz



Date: 19.APR.2022 21:07:23

Plot on Channel 6695MHz

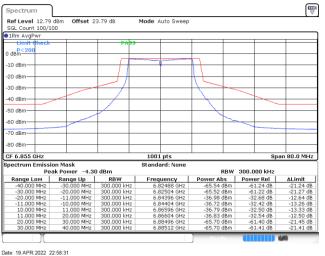


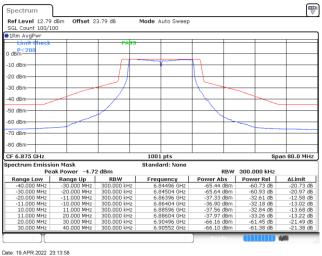
Date: 19.APR.2022 22:43:37

Plot on Channel 6855MHz

Date: 19.APR.2022 22:51:25

Plot on Channel 6875MHz





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Plot on Channel 6515MHz