

Appendix B1-Module YL43752 ANT1 5G Wi-Fi

Test Information:

Sample No.:	2VNH-6	Test Date:	2024/12/28~2024/12/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Kungfumaster Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.2-26.5	Relative Humidity: (%)	41-46	ATM Pressure: (kPa)	100.4~101
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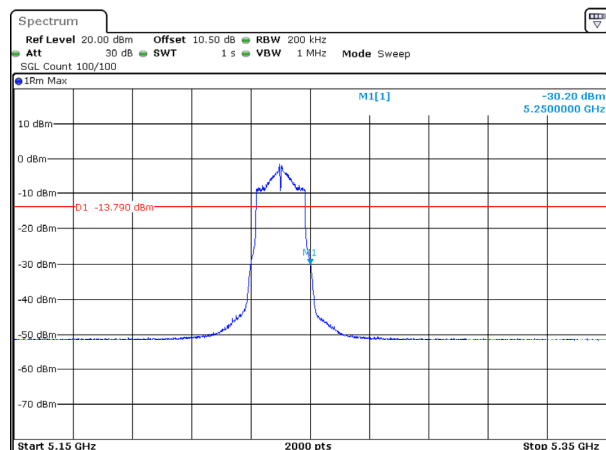
26dB attenuated below the channel power

5150-5250MHz

Mode	Test Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11a	5240	-30.20	-13.79	Pass
802.11ac20	5240	-28.46	-13.93	Pass
802.11ac40	5230	-37.29	-15.59	Pass
802.11ac80	5210	-35.08	-15.52	Pass
802.11ax20_RU_Full	5240	-28.92	-13.68	Pass
802.11ax40_RU_Full	5230	-35.10	-13.78	Pass
802.11ax80_RU_Full	5210	-27.28	-13.83	Pass

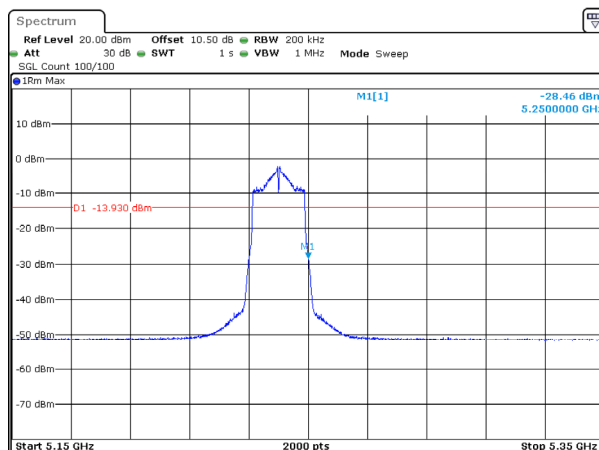
5150-5250MHz

802.11a_5240MHz



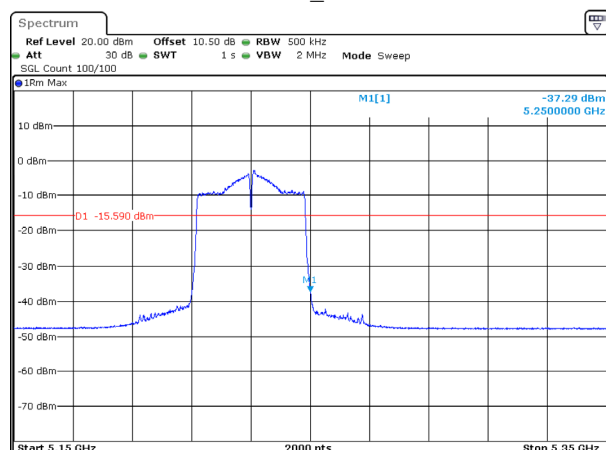
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Date: 29.DEC.2024 01:53:33

802.11ac20_5240MHz



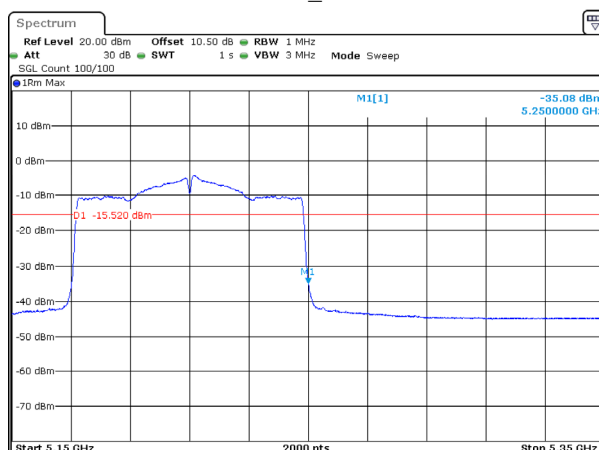
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Date: 29.DEC.2024 02:00:47

802.11ac40_5230MHz



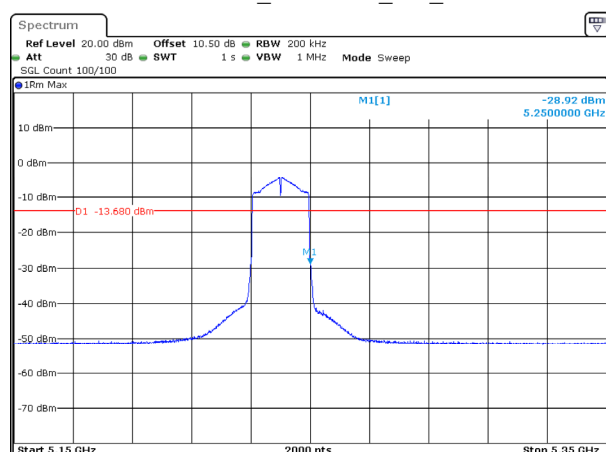
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Date: 29.DEC.2024 02:05:26

802.11ac80_5210MHz



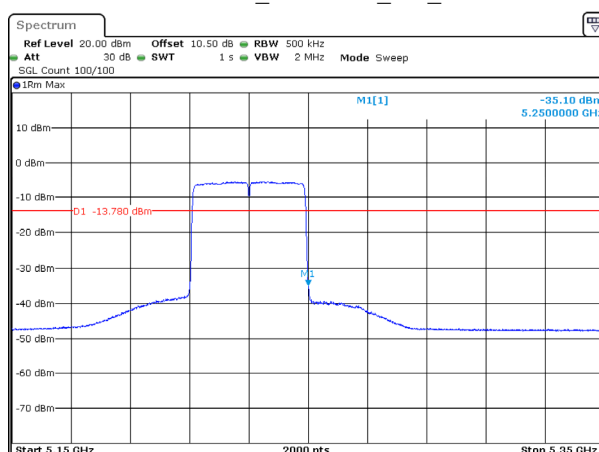
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Date: 29.DEC.2024 02:07:40

802.11ax20_5240MHz_RU_Full



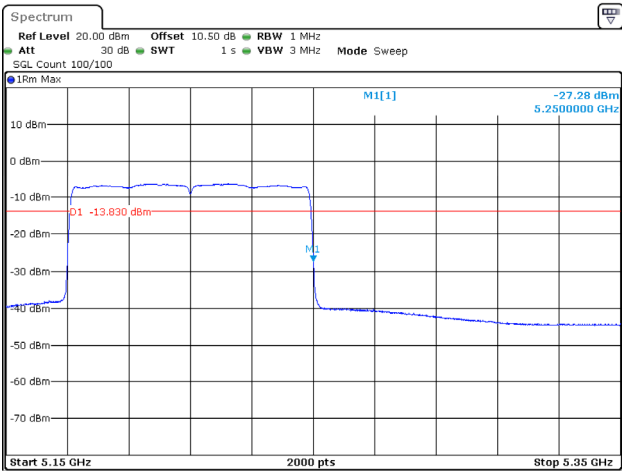
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Date: 29.DEC.2024 02:15:58

802.11ax40_5230MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29.DEC.2024 02:28:40

802.11ax80_5210MHz_RU_Full



ProjectNo.:2401A63093E-RF-2-ANT1 Tester:Kungfumaster Liang
Date: 29,DEC,2024 02:23:03

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	21.254
	5200	21.049
	5240	21.204
802.11ac20	5180	21.410
	5200	21.392
	5240	21.517
802.11ac40	5190	39.840
	5230	39.840
802.11ac80	5210	81.682
802.11ax20_RU_Full	5180	21.250
	5200	21.389
	5240	21.671
802.11ax40_RU_Full	5190	40.440
	5230	40.741
802.11ax80_RU_Full	5210	82.683

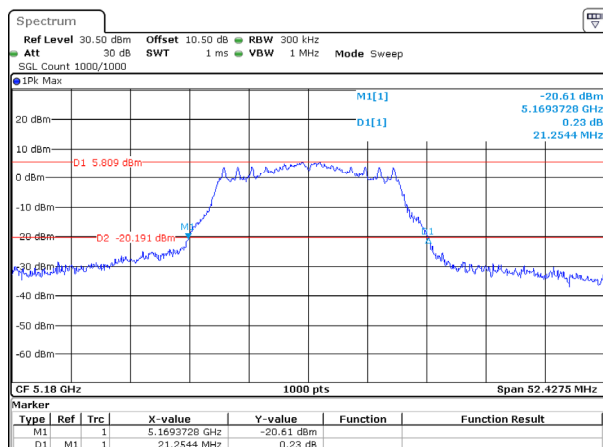
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	15.265	0.5	Pass
	5785	15.265	0.5	Pass
	5825	15.265	0.5	Pass
802.11ac20	5745	15.265	0.5	Pass
	5785	15.315	0.5	Pass
	5825	15.265	0.5	Pass
802.11ac40	5755	35.435	0.5	Pass
	5795	35.435	0.5	Pass
802.11ac80	5775	75.676	0.5	Pass
802.11ax20_RU_Full	5745	18.669	0.5	Pass
	5785	18.519	0.5	Pass
	5825	18.719	0.5	Pass
802.11ax40_RU_Full	5755	37.838	0.5	Pass
	5795	37.738	0.5	Pass
802.11ax80_RU_Full	5775	77.277	0.5	Pass

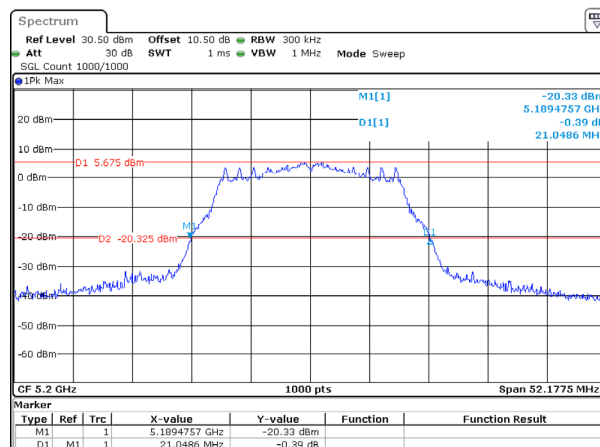
5150-5250MHz

802.11a_5180MHz



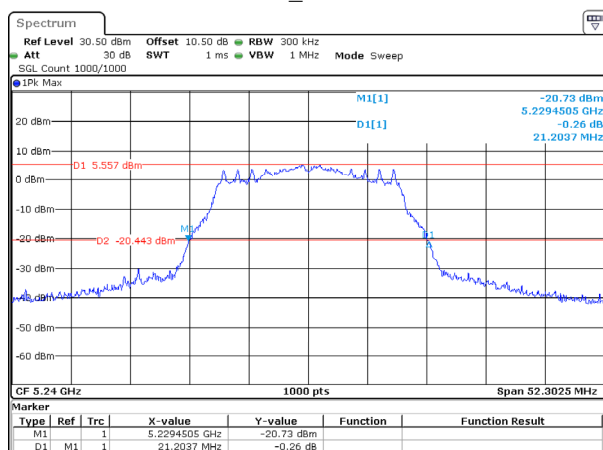
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802.11a_5200MHz



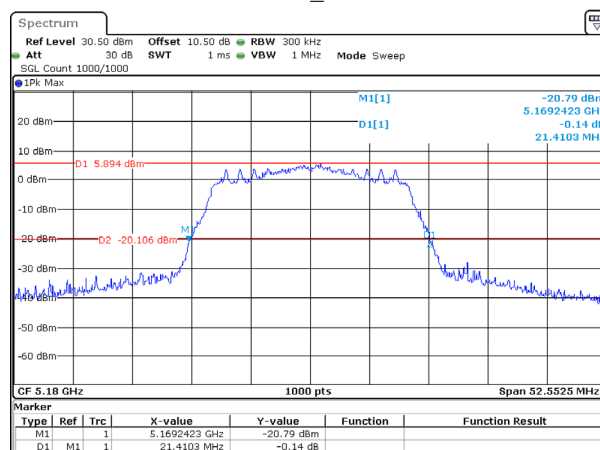
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802.11a_5240MHz



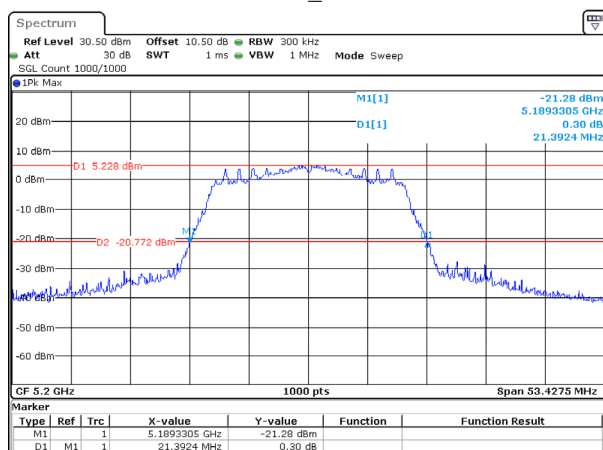
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802.11ac20_5180MHz



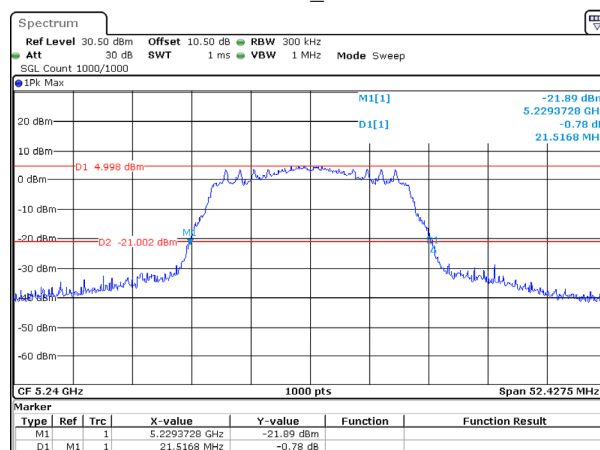
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802.11ac20_5200MHz



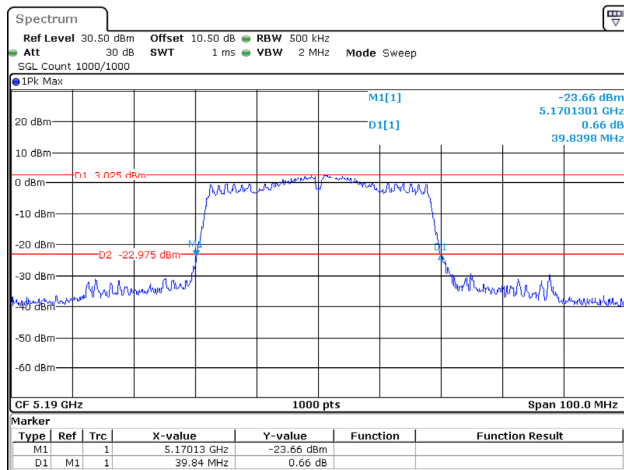
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802.11ac20_5240MHz



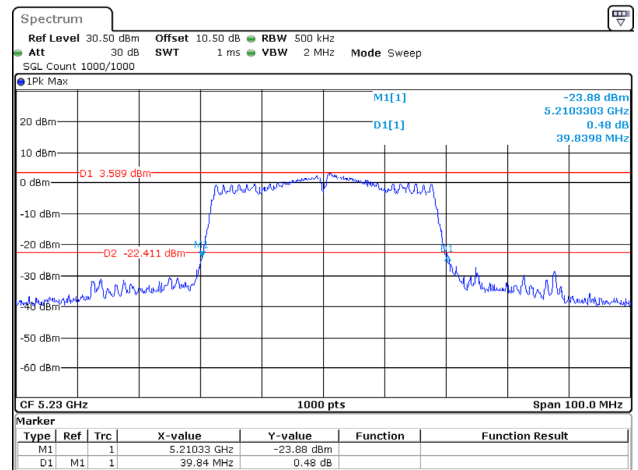
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802.11ac40_5190MHz



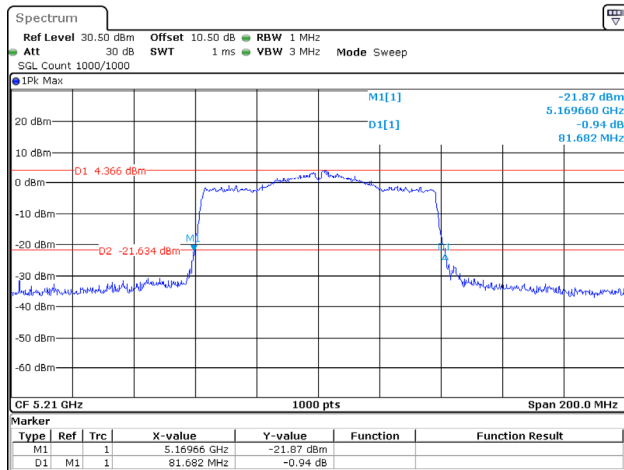
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802.11ac40_5230MHz



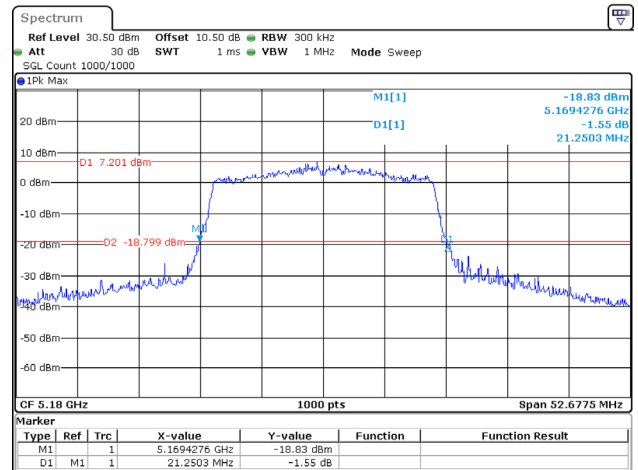
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802.11ac80_5210MHz



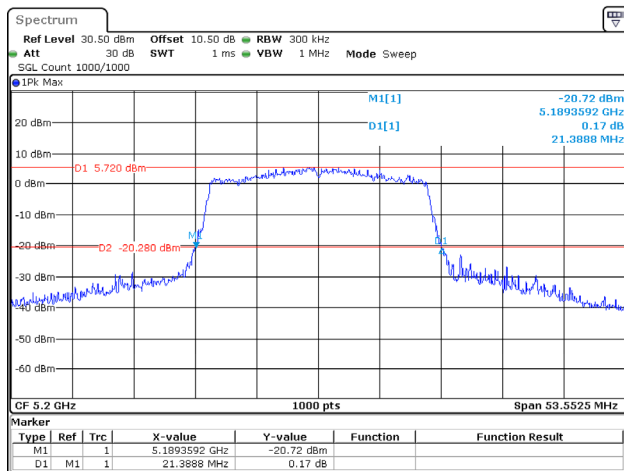
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802.11ax20_5180MHz_RU_Full



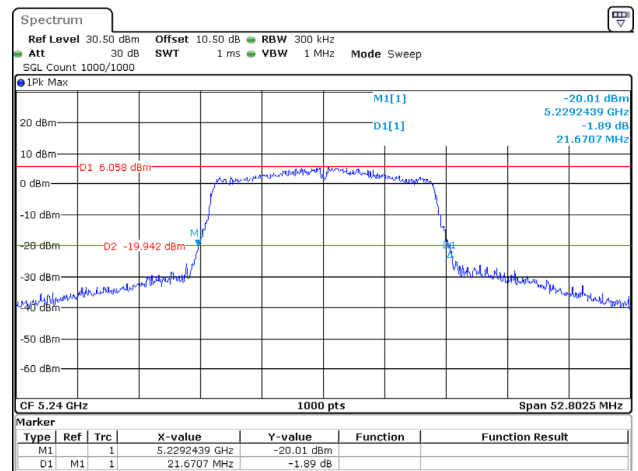
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802.11ax20_5200MHz_RU_Full



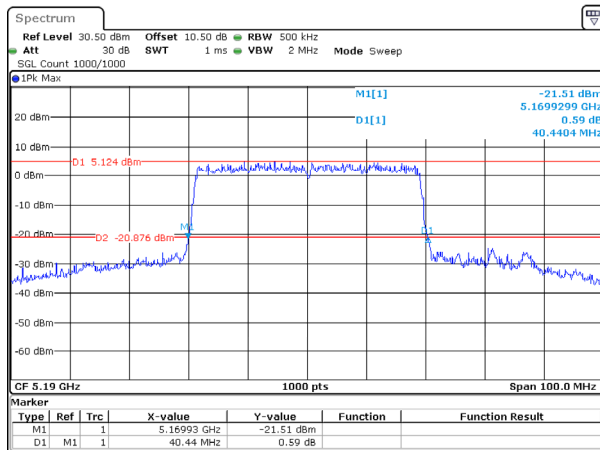
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802.11ax20_5240MHz_RU_Full



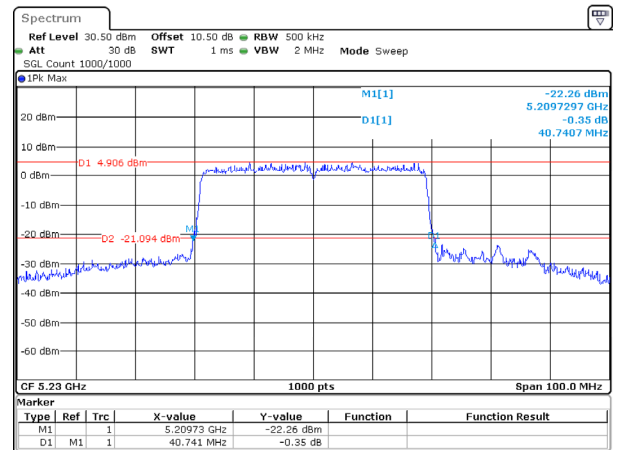
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802.11ax40_5190MHz_RU_Full



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Date: 28.DEC.2024 19:43:32

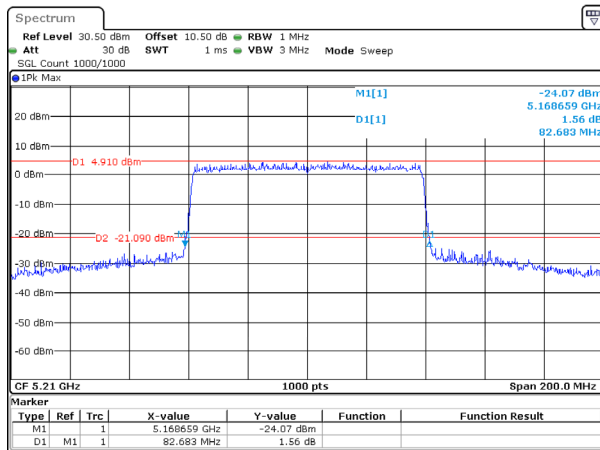
802.11ax40_5230MHz_RU_Full



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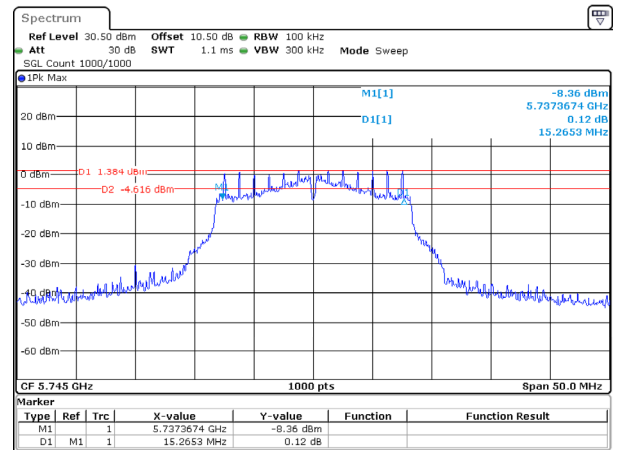
5725-5850MHz

802.11ax80_5210MHz_RU_Full



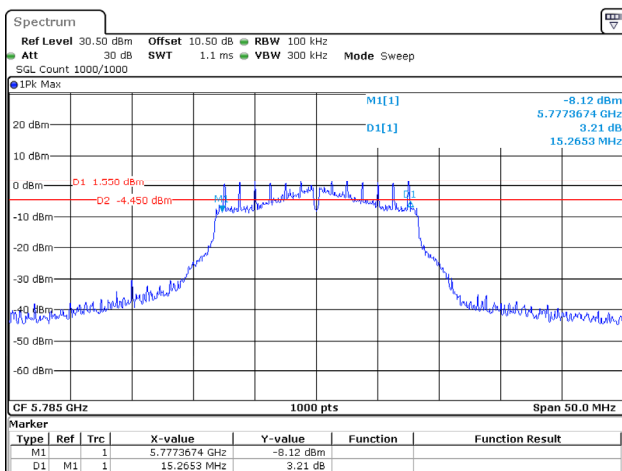
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802.11a_5745MHz



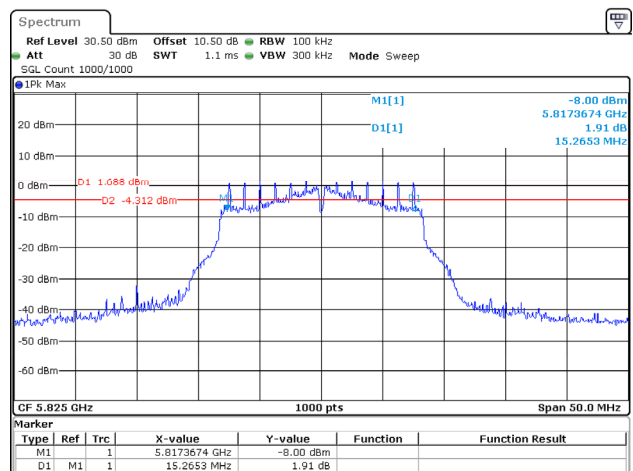
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802.11a_5785MHz



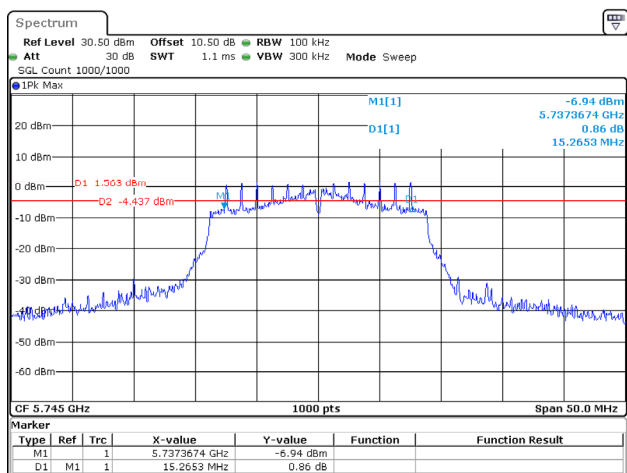
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802.11a_5825MHz



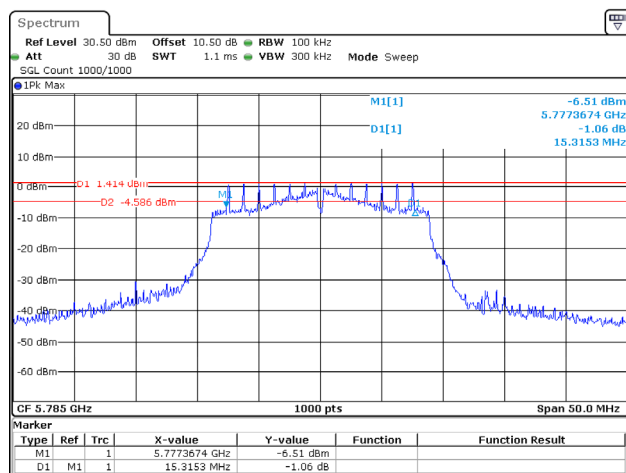
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802.11ac20_5745MHz



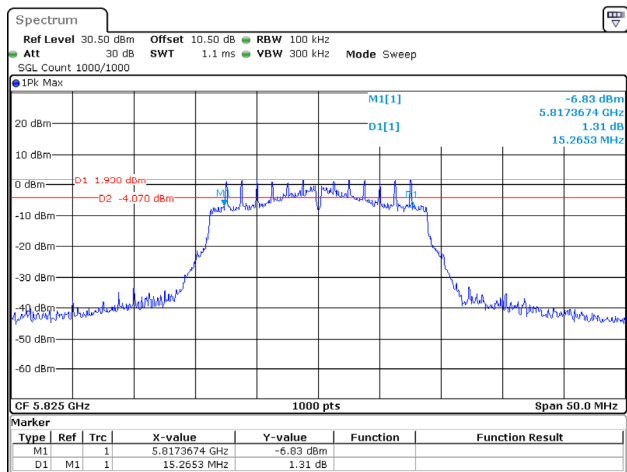
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802.11ac20_5785MHz



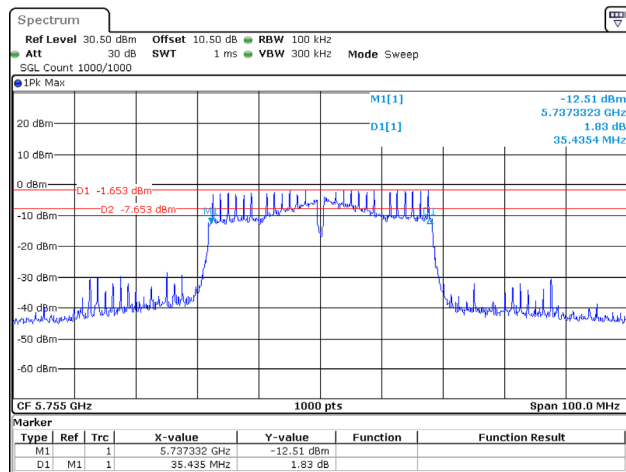
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802.11ac20_5825MHz



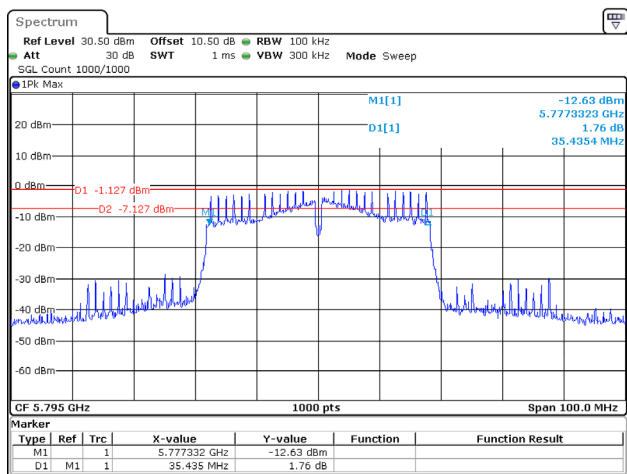
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802.11ac40_5755MHz



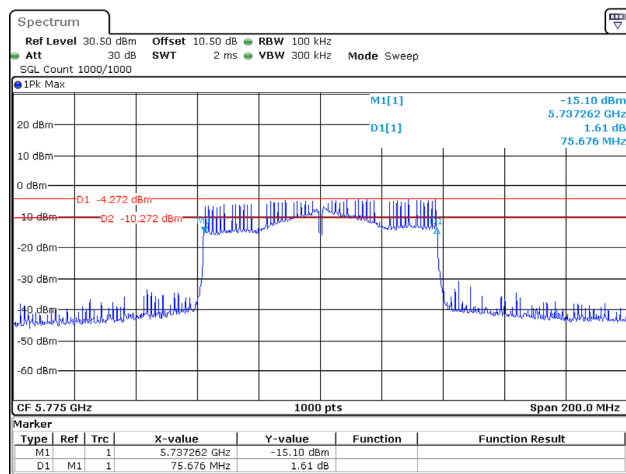
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Date: 29.DEC.2024 00:27:32

802.11ac40_5795MHz



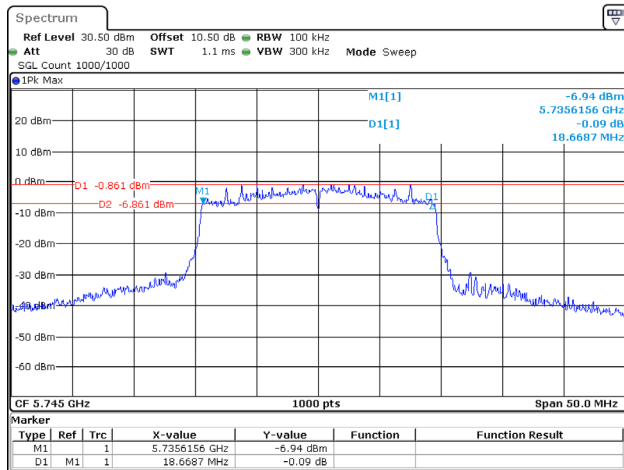
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802.11ac80_5775MHz

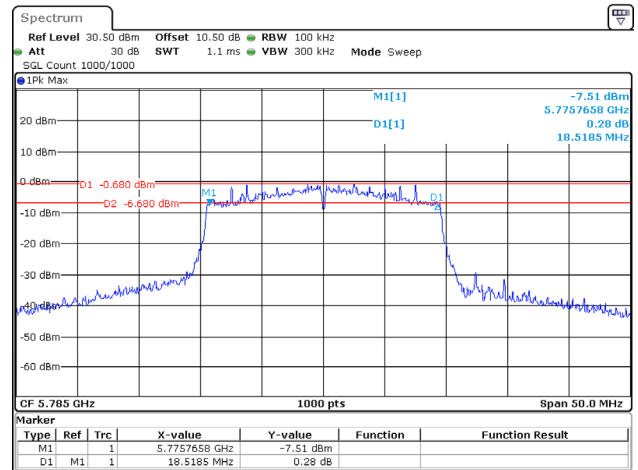


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Date: 29.DEC.2024 00:30:10

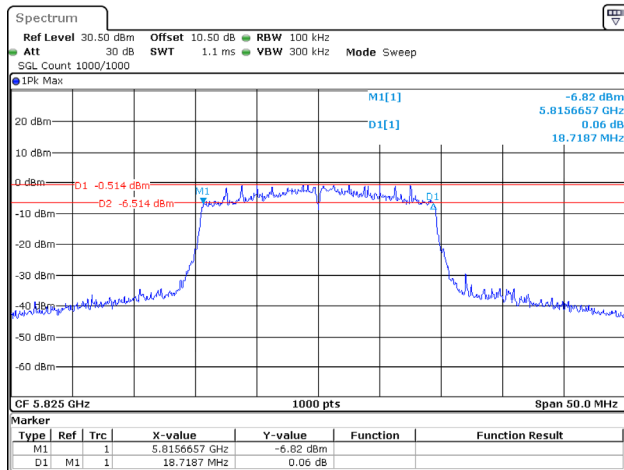
802.11ax20_5745MHz_RU_Full



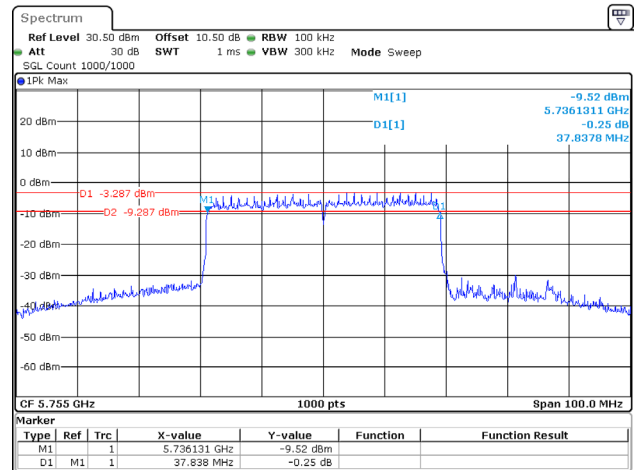
802.11ax20_5785MHz_RU_Full



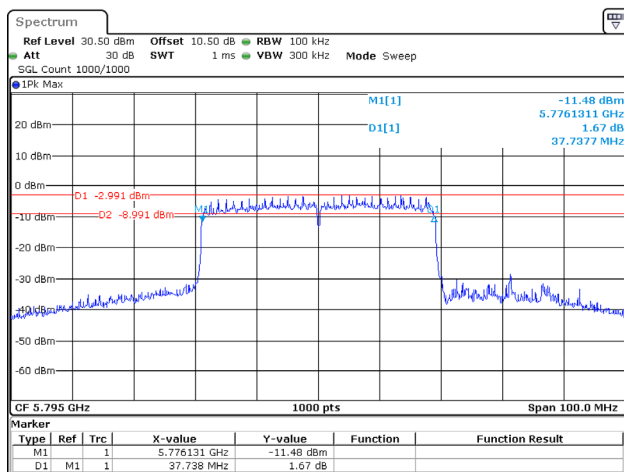
802.11ax20_5825MHz_RU_Full



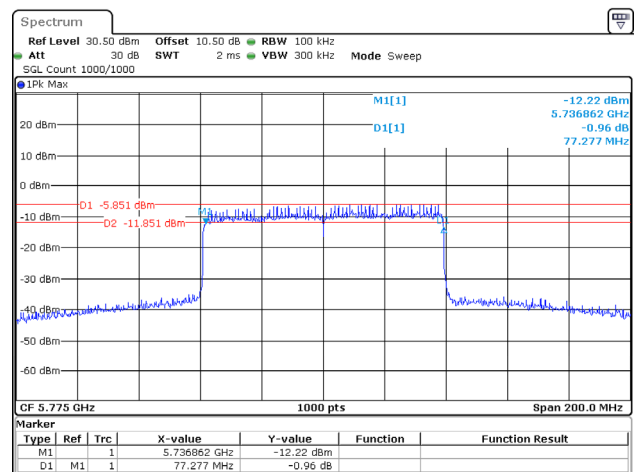
802.11ax40_5755MHz_RU_Full



802.11ax40_5795MHz_RU_Full



802.11ax80_5775MHz_RU_Full



99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.450
	5200	16.400
	5240	16.400
802.11ac20	5180	17.550
	5200	17.550
	5240	17.500
802.11ac40	5190	36
	5230	36.100
802.11ac80	5210	75.400
802.11ax20_RU_Full	5180	18.950
	5200	18.950
	5240	18.900
802.11ax40_RU_Full	5190	37.600
	5230	37.600
802.11ax80_RU_Full	5210	77.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5250-5350MHz, please refer to the test plots of 99% Occupied Bandwidth.

5725-5850MHz

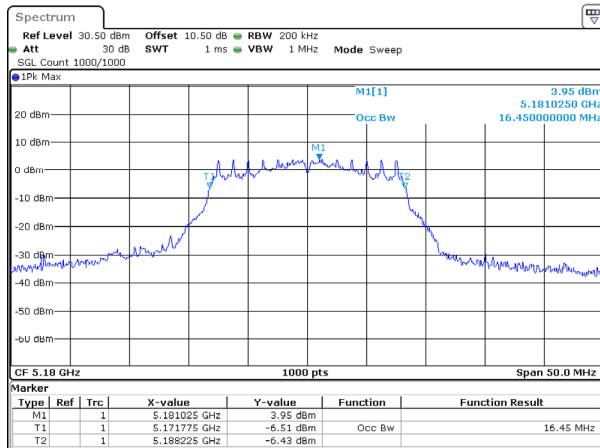
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.400
	5785	16.400
	5825	16.400
802.11ac20	5745	17.600
	5785	17.550
	5825	17.500
802.11ac40	5755	36.100
	5795	36.100
802.11ac80	5775	75.400
802.11ax20_RU_Full	5745	18.900
	5785	19
	5825	18.950
802.11ax40_RU_Full	5755	37.700
	5795	37.700
802.11ax80_RU_Full	5775	77.400

Note:

The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

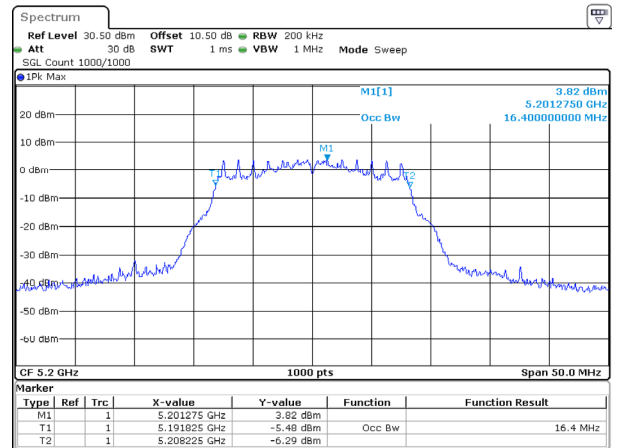
5150-5250MHz

802.11a_5180MHz



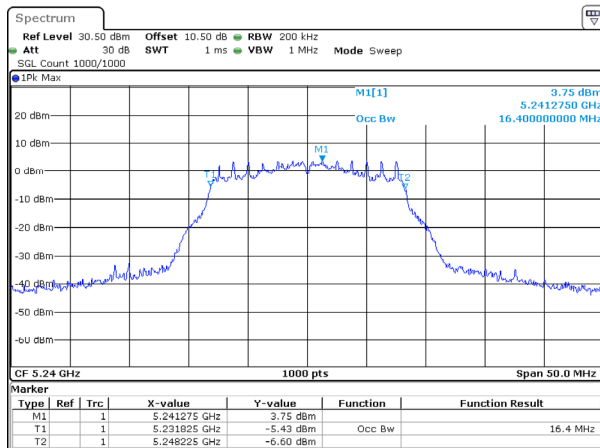
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Date: 28.DEC.2024 19:27:23

802.11a_5200MHz



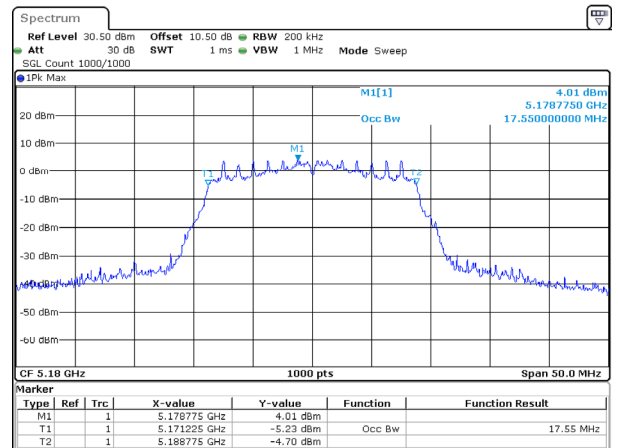
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802.11a_5240MHz



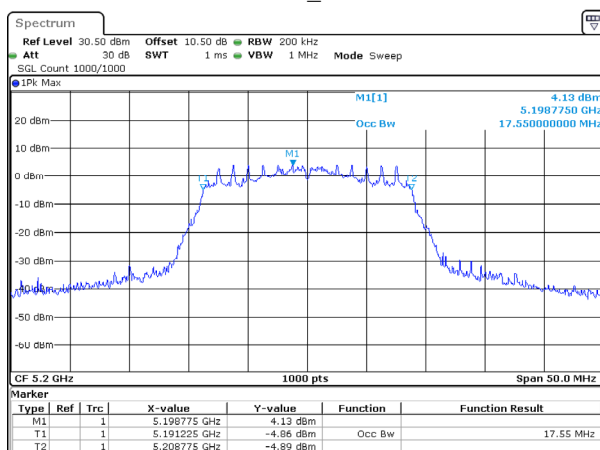
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802.11ac20_5180MHz



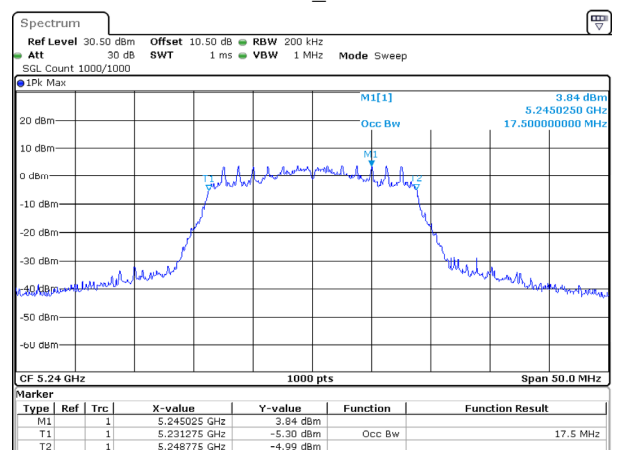
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802.11ac20_5200MHz



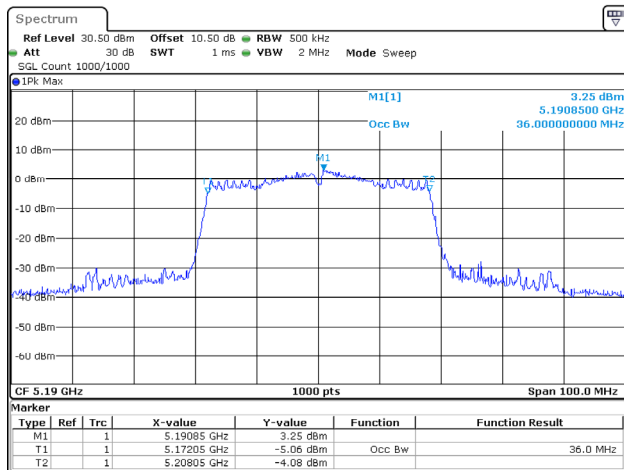
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802.11ac20_5240MHz



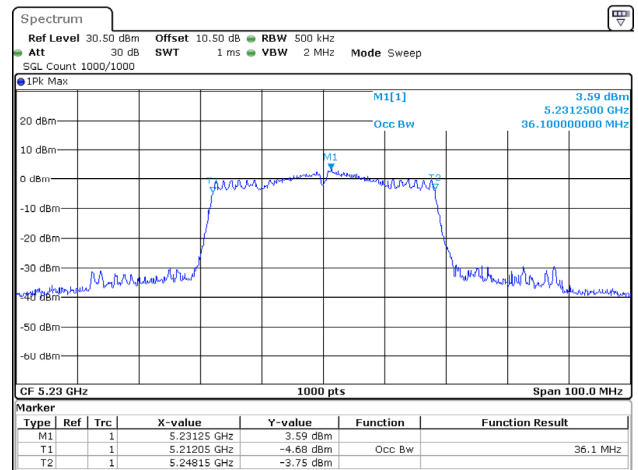
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802.11ac40_5190MHz



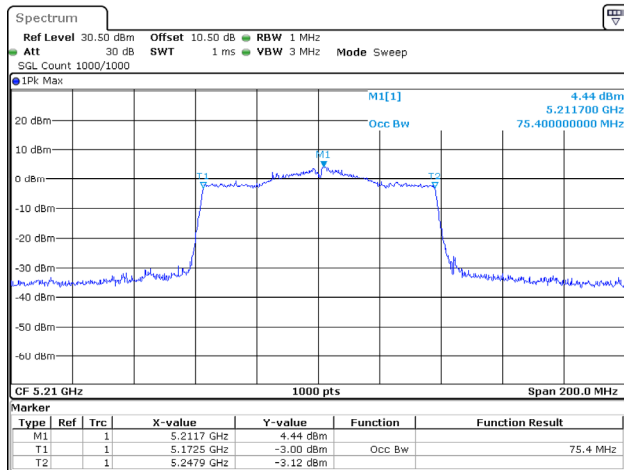
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802.11ac40_5230MHz



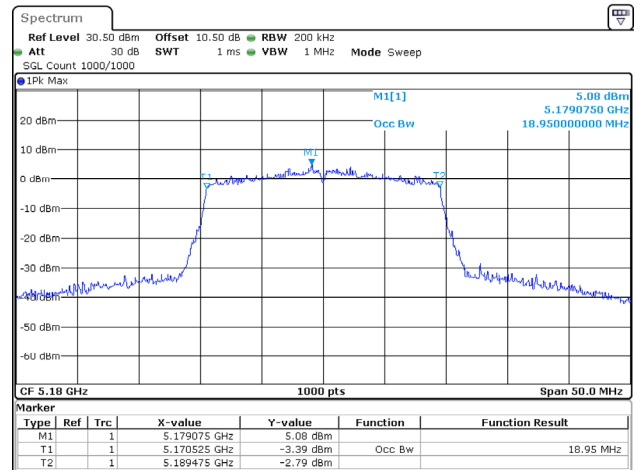
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802.11ac80_5210MHz



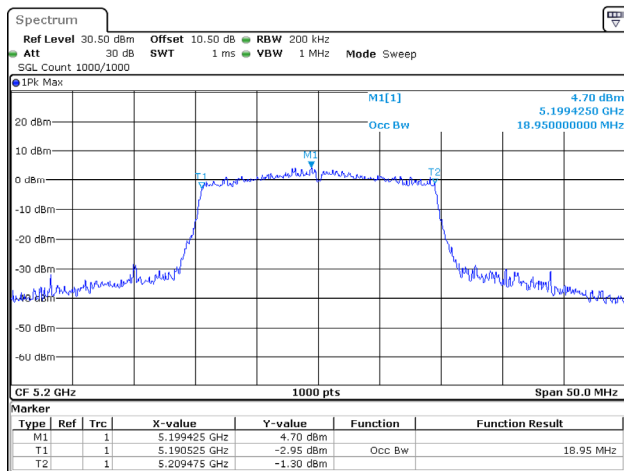
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802.11ax20_5180MHz_RU_Full



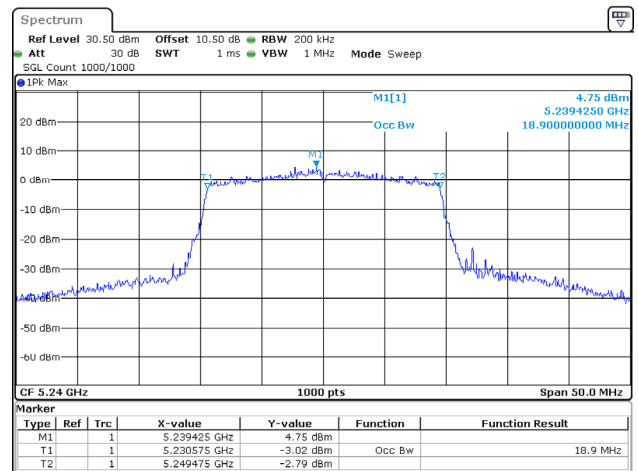
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802.11ax20_5200MHz_RU_Full



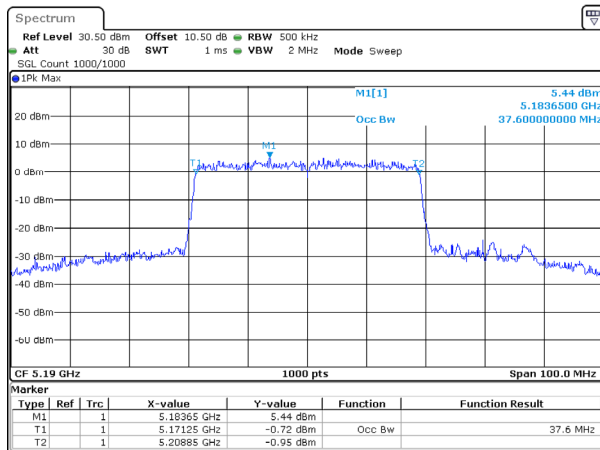
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802.11ax20_5240MHz_RU_Full

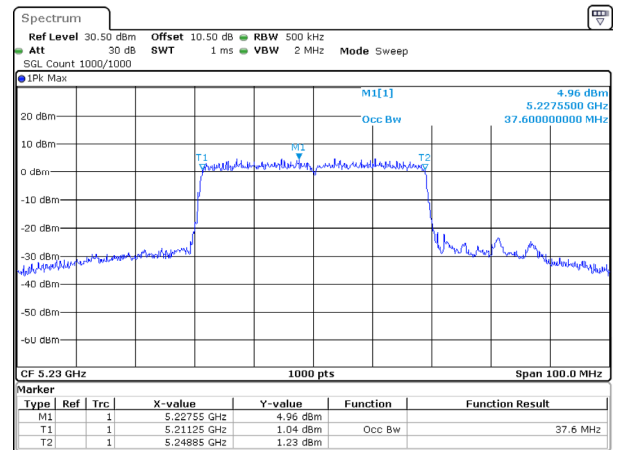


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Date: 28.DEC.2024 19:42:16

802.11ax40_5190MHz_RU_Full

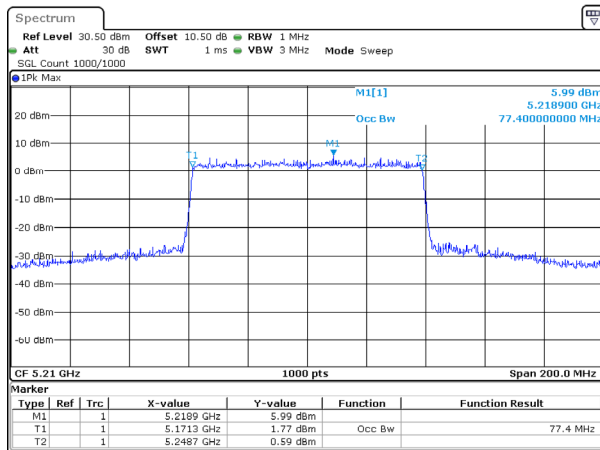


802.11ax40_5230MHz_RU_Full

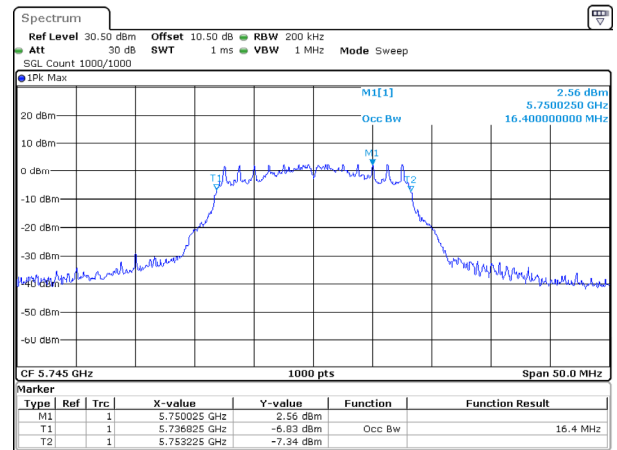


5725-5850MHz

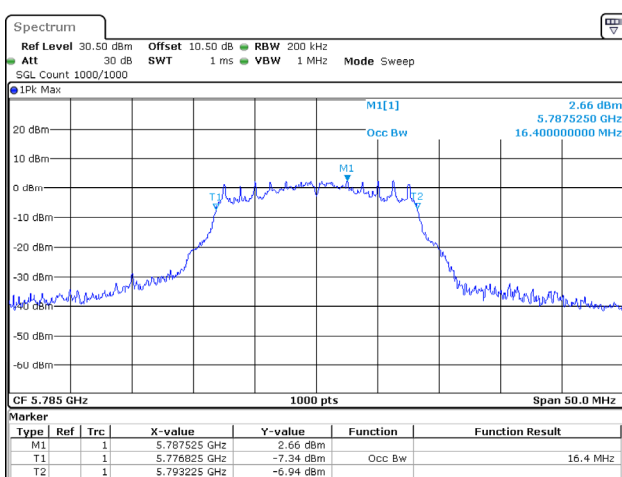
802.11ax80_5210MHz_RU_Full



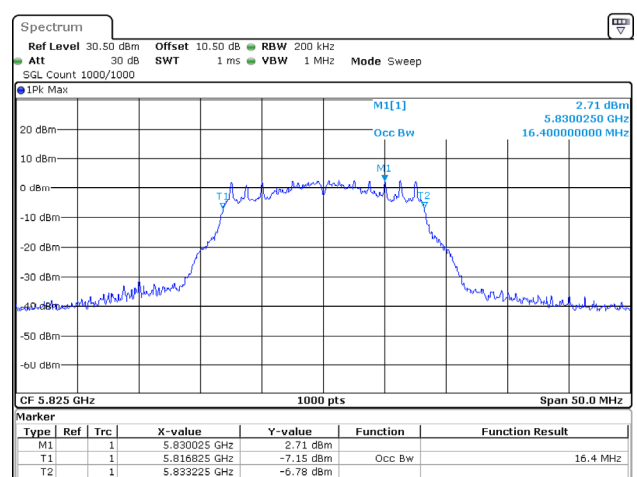
802.11a_5745MHz



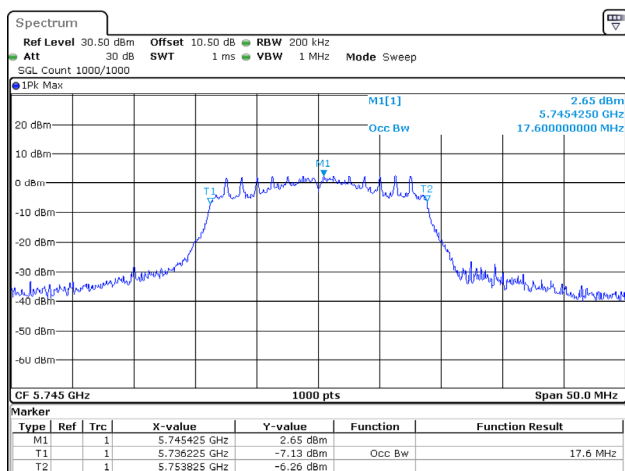
802.11a_5785MHz



802.11a_5825MHz

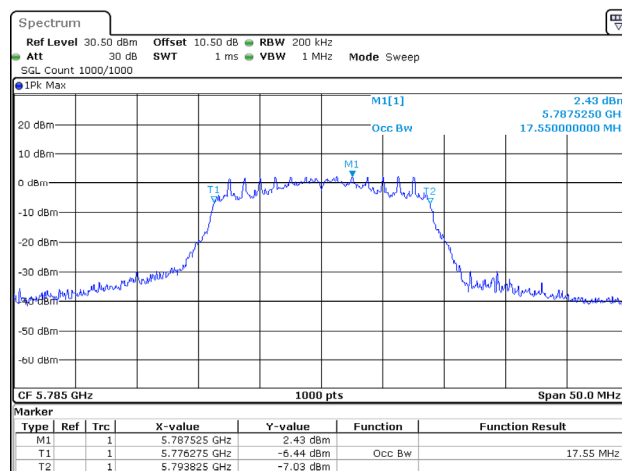


802.11ac20_5745MHz



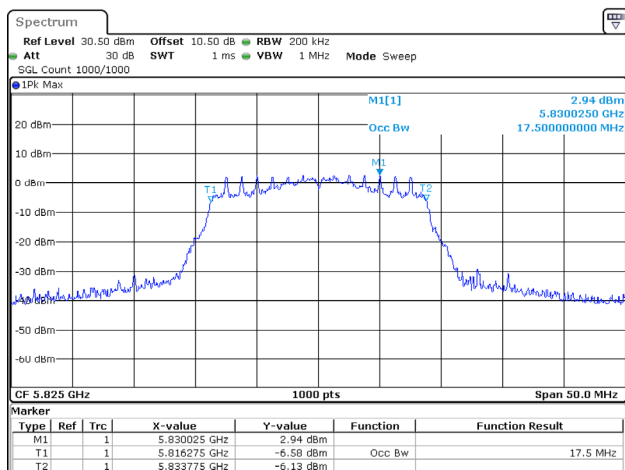
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Date: 29.DEC.2024 00:23:09

802.11ac20_5785MHz



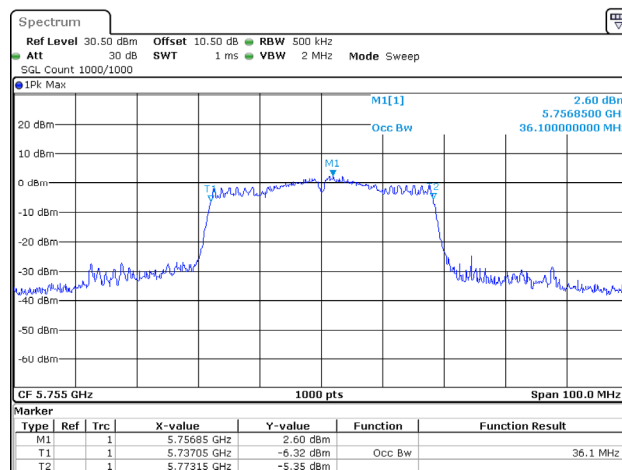
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Date: 29.DEC.2024 00:24:57

802.11ac20_5825MHz



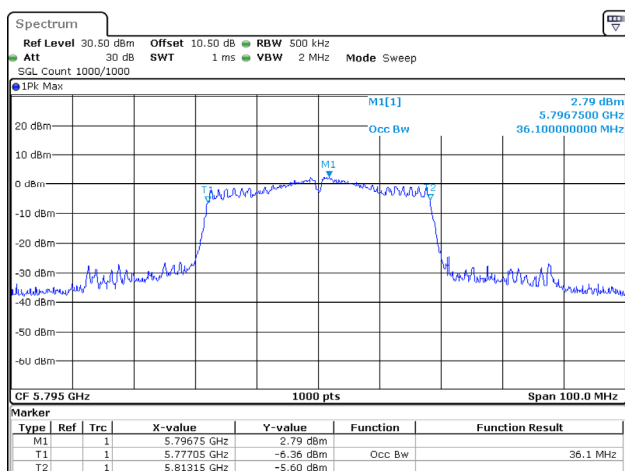
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Date: 29.DEC.2024 00:26:21

802.11ac40_5755MHz



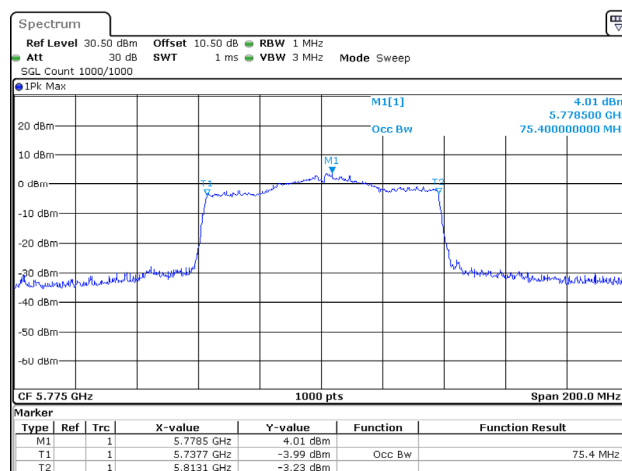
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Date: 29.DEC.2024 00:27:46

802.11ac40_5795MHz



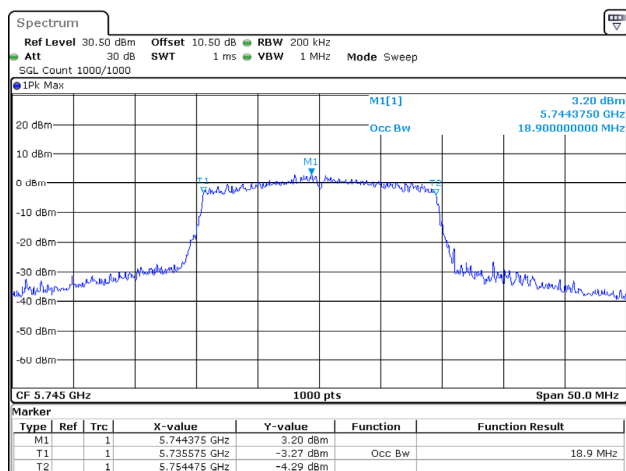
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Date: 29.DEC.2024 00:29:06

802.11ac80_5775MHz

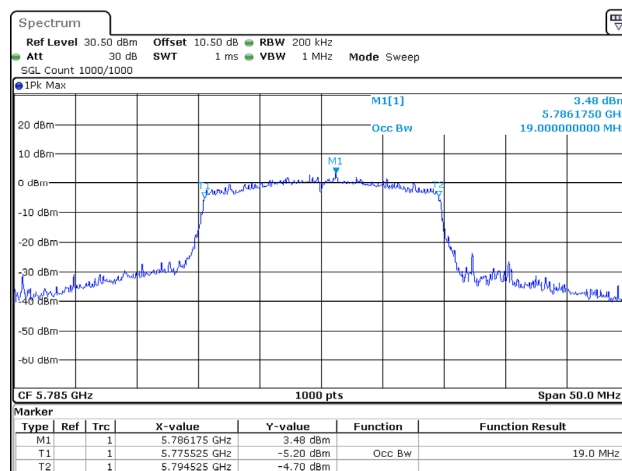


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Date: 29.DEC.2024 00:30:27

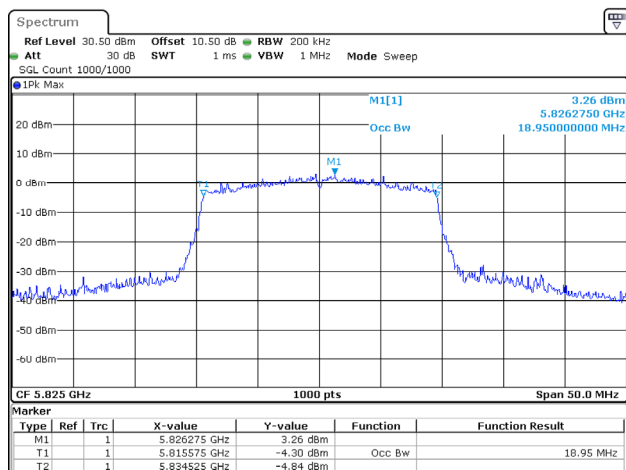
802.11ax20_5745MHz_RU_Full



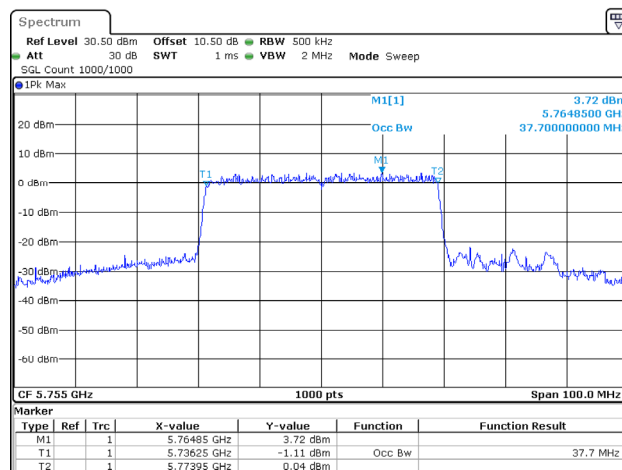
802.11ax20_5785MHz_RU_Full



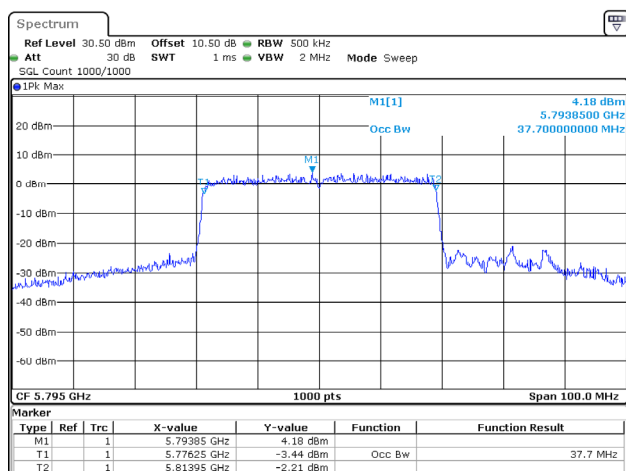
802.11ax20_5825MHz_RU_Full



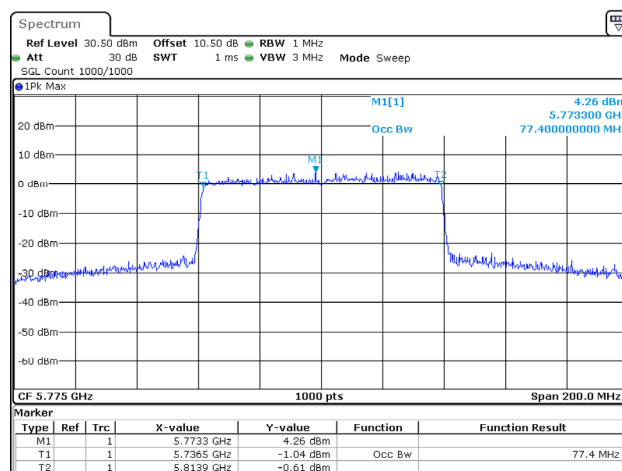
802.11ax40_5755MHz_RU_Full



802.11ax40_5795MHz_RU_Full



802.11ax80_5775MHz_RU_Full



Maximum Conducted Output Power

5150-5250MHz

FCC:

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	12.37	30	Pass
	5200	12.18	30	Pass
	5240	12.21	30	Pass
802.11ac20	5180	12.32	30	Pass
	5200	12.14	30	Pass
	5240	12.07	30	Pass
802.11ac40	5190	10.53	30	Pass
	5230	10.41	30	Pass
802.11ac80	5210	10.48	30	Pass
802.11ax20_RU_Full	5180	12.41	30	Pass
	5200	12.36	30	Pass
	5240	12.32	30	Pass
802.11ax40_RU_Full	5190	12.2	30	Pass
	5230	12.22	30	Pass
802.11ax80_RU_Full	5210	12.17	30	Pass

IC:

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	5180	12.37	4.49	16.86	22.16	Pass
	5200	12.18	4.49	16.67	22.15	Pass
	5240	12.21	4.49	16.7	22.15	Pass
802.11ac20	5180	12.32	4.49	16.81	22.44	Pass
	5200	12.14	4.49	16.63	22.44	Pass
	5240	12.07	4.49	16.56	22.43	Pass
802.11ac40	5190	10.53	4.49	15.02	23.01	Pass
	5230	10.41	4.49	14.9	23.01	Pass
802.11ac80	5210	10.48	4.49	14.97	23.01	Pass
802.11ax20_RU_Full	5180	12.41	4.49	16.9	22.78	Pass
	5200	12.36	4.49	16.85	22.78	Pass
	5240	12.32	4.49	16.81	22.76	Pass
802.11ax40_RU_Full	5190	12.2	4.49	16.69	23.01	Pass
	5230	12.22	4.49	16.71	23.01	Pass
802.11ax80_RU_Full	5210	12.17	4.49	16.66	23.01	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	10.89	30	Pass
	5785	10.86	30	Pass
	5825	11.03	30	Pass
802.11ac20	5745	10.76	30	Pass
	5785	10.69	30	Pass
	5825	10.99	30	Pass
802.11ac40	5755	9.76	30	Pass
	5795	10.01	30	Pass
802.11ac80	5775	9.84	30	Pass
802.11ax20_RU_Full	5745	11.00	30	Pass
	5785	10.89	30	Pass
	5825	11.16	30	Pass
802.11ax40_RU_Full	5755	11.08	30	Pass
	5795	11.20	30	Pass
802.11ax80_RU_Full	5775	11.18	30	Pass

Note: EIRP = Average Output Power + Antenna gain