

Appendix C: Module YL7981, ANT1

Test Information:

Sample No.:	2U84-1	Test Date:	2024/12/26~2025/03/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Brian Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24~26.2	Relative Humidity: (%)	46~52	ATM Pressure: (kPa)	101
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Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	20.696
	5200	20.695
	5240	20.140
802.11ac20	5180	28.238
	5200	29.633
	5240	21.009
802.11ac40	5190	57.445
	5230	41.250
802.11ac80	5210	100.250
802.11ax20_RU_Full	5180	27.358
	5200	24.960
	5240	20.314
802.11ax40_RU_Full	5190	47.047
	5230	40.125
802.11ax80_RU_Full	5210	84.885

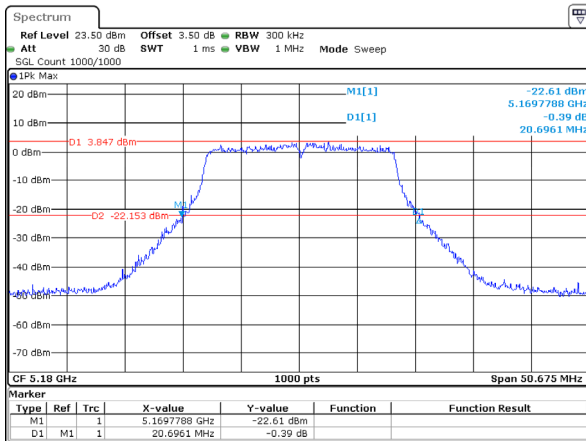
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.625	0.5	Pass
	5785	16.625	0.5	Pass
	5825	16.563	0.5	Pass
802.11ac20	5745	17.688	0.5	Pass
	5785	17.688	0.5	Pass
	5825	17.688	0.5	Pass
802.11ac40	5755	35.375	0.5	Pass
	5795	35.375	0.5	Pass
802.11ac80	5775	75.750	0.5	Pass
802.11ax20_RU_Full	5745	19.063	0.5	Pass
	5785	19.063	0.5	Pass
	5825	19	0.5	Pass
802.11ax40_RU_Full	5755	37.250	0.5	Pass
	5795	37.375	0.5	Pass
802.11ax80_RU_Full	5775	76.250	0.5	Pass

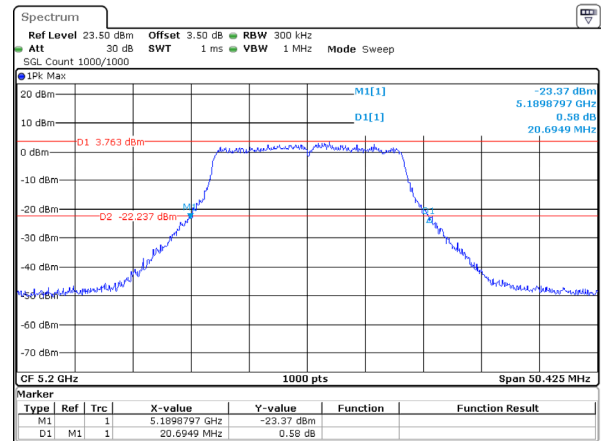
5150-5250MHz

802.11a_5180MHz



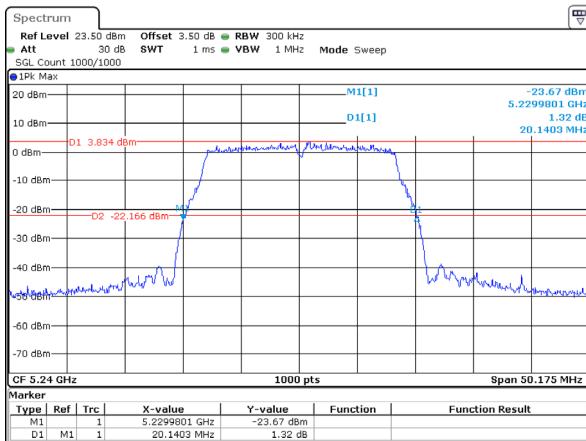
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Date: 26.DEC.2024 00:33:34

802.11a_5200MHz



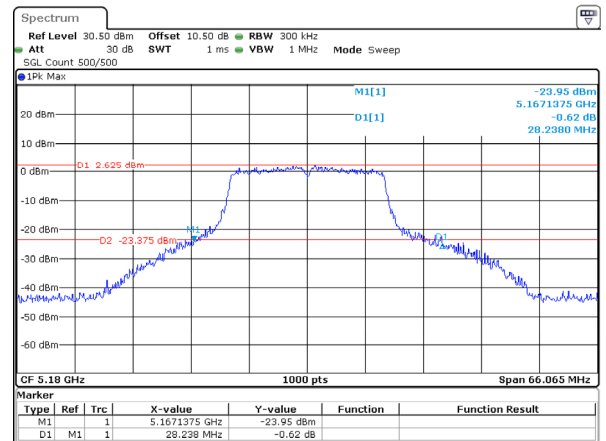
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802.11a_5240MHz



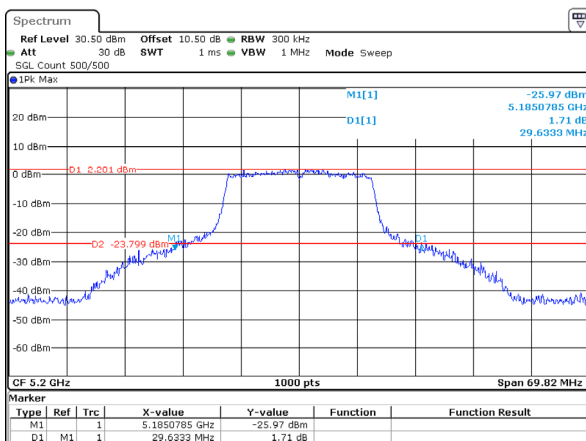
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802.11ac20_5180MHz



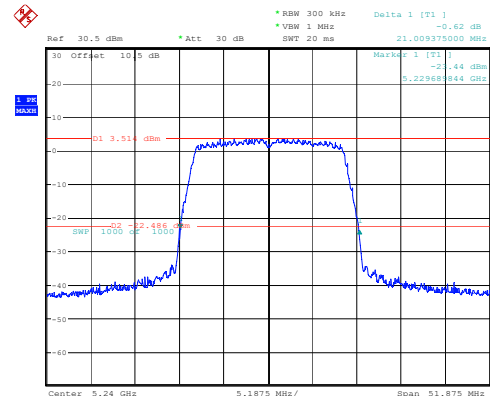
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802.11ac20_5200MHz



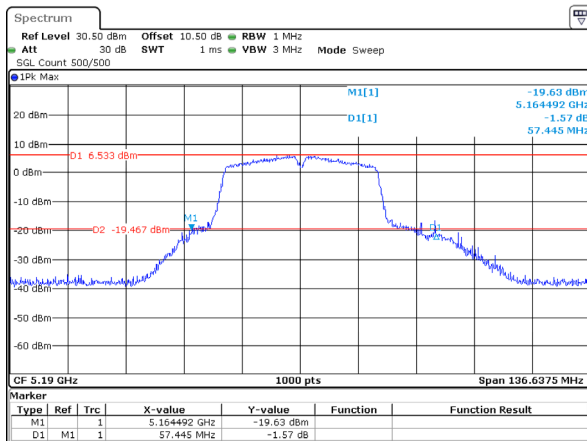
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802.11ac20_5240MHz



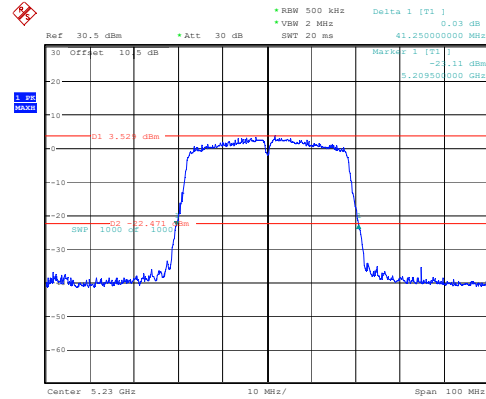
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802.11ac40_5190MHz



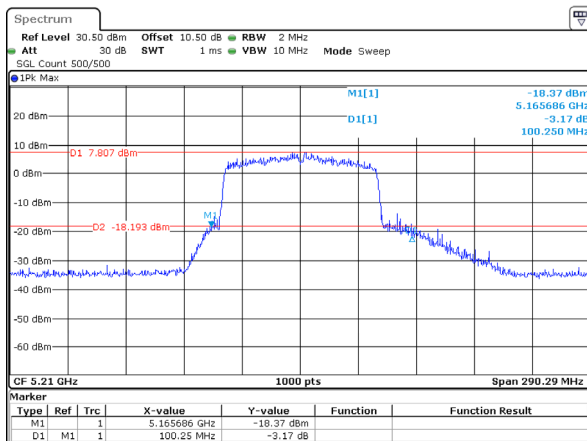
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802.11ac40_5230MHz



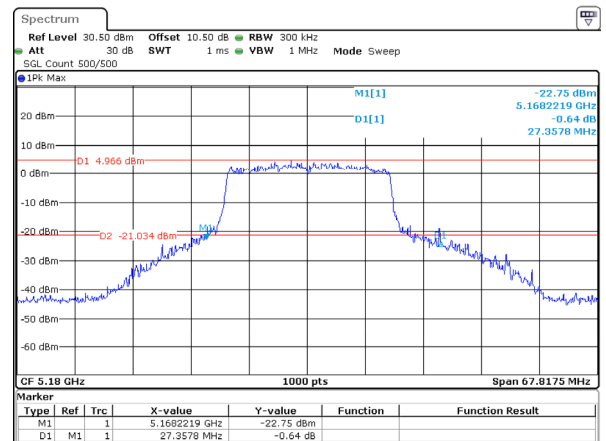
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802.11ac80_5210MHz



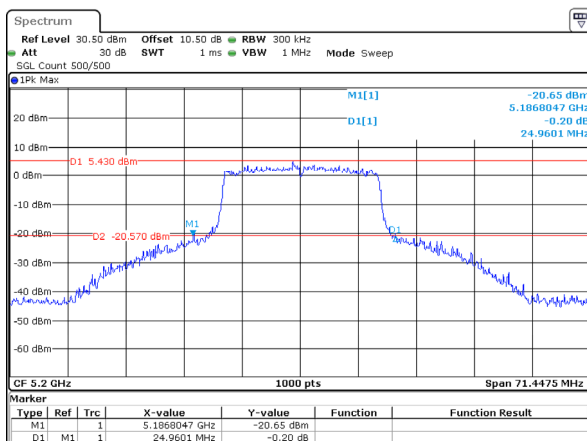
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802.11ax20_5180MHz_RU_Full



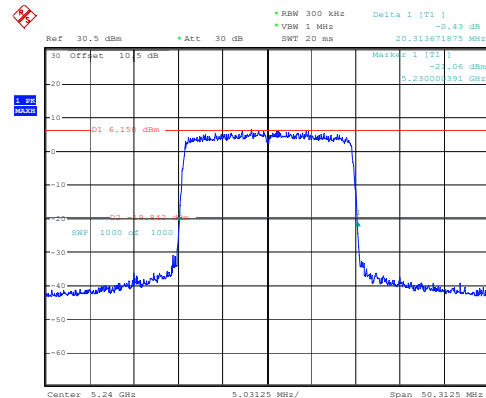
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802.11ax20_5200MHz_RU_Full



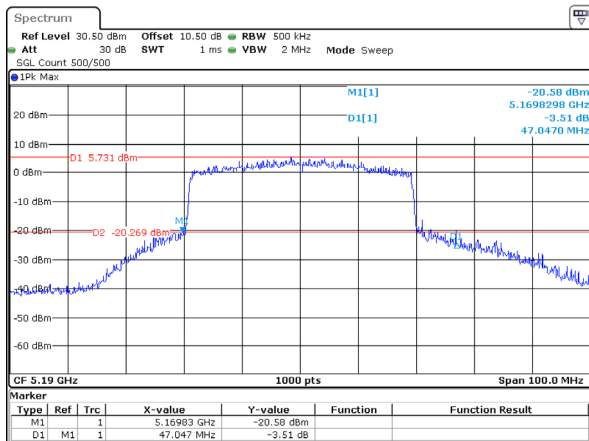
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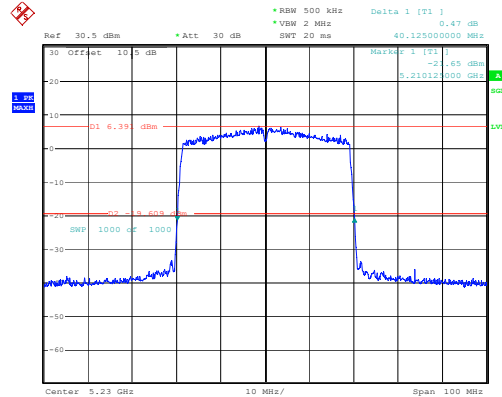
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802.11ax40_5190MHz_RU_Full



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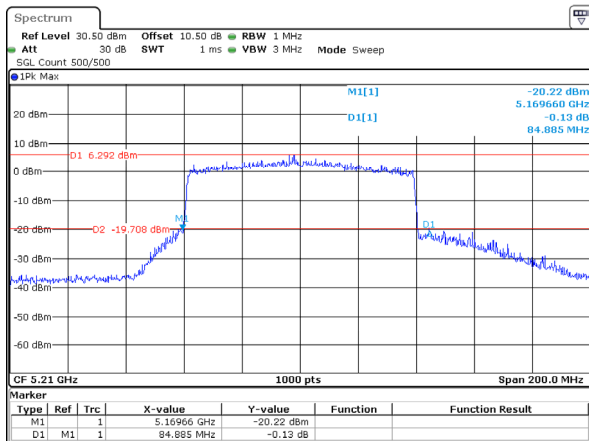
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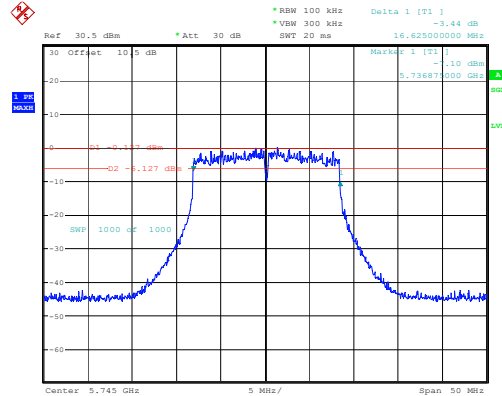
5725-5850MHz

802.11ax80_5210MHz_RU_Full



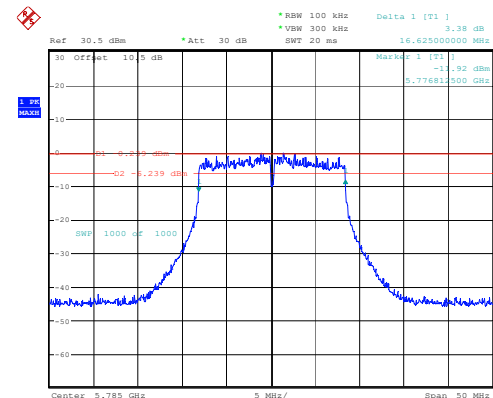
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802.11a_5745MHz



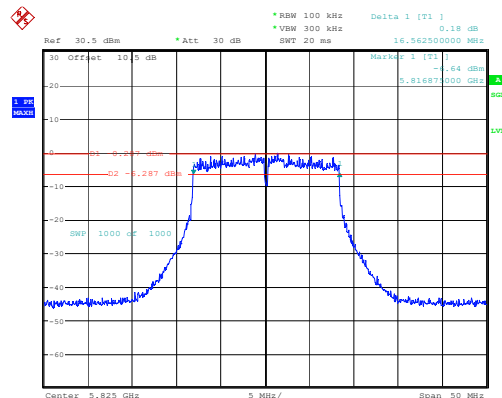
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802.11a_5785MHz



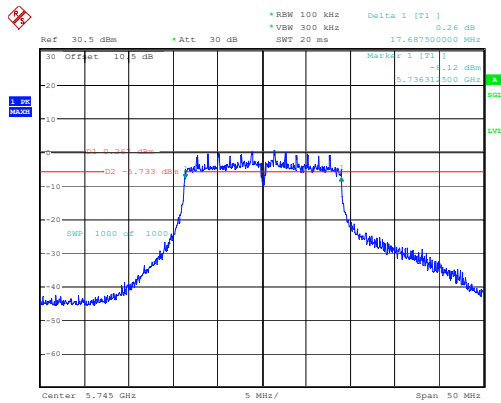
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802.11a_5825MHz



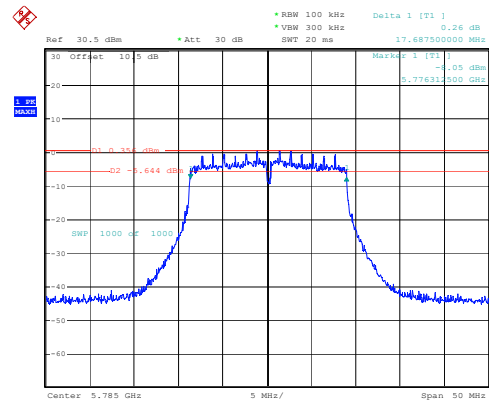
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802.11ac20_5745MHz



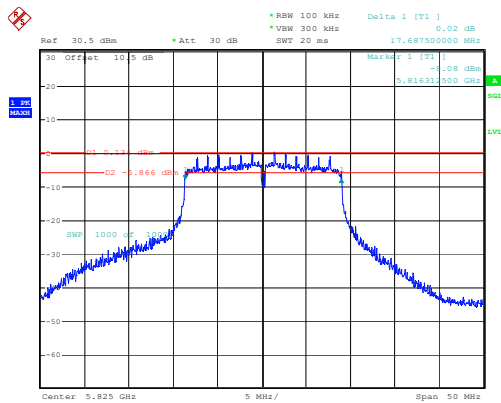
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802.11ac20_5785MHz



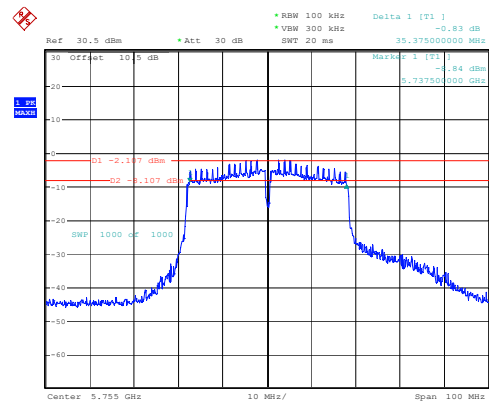
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802.11ac20_5825MHz



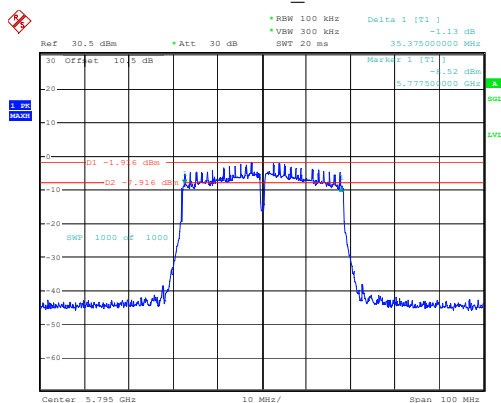
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802.11ac40_5755MHz



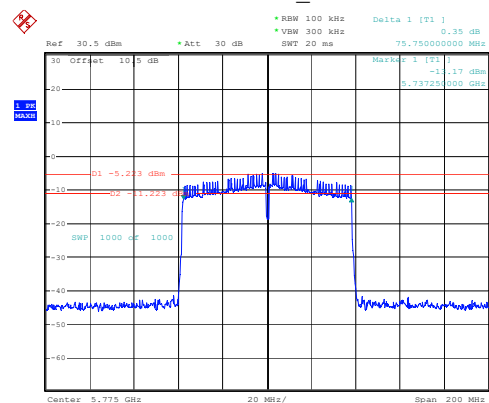
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802.11ac40_5795MHz



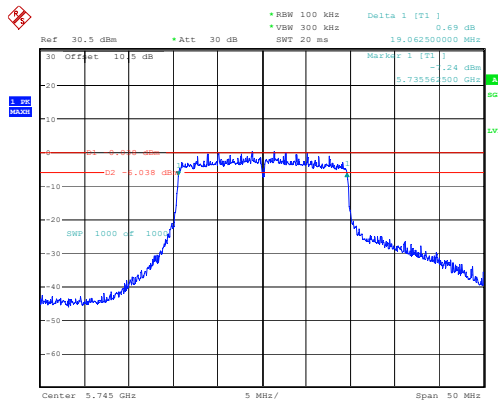
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802.11ac80_5775MHz



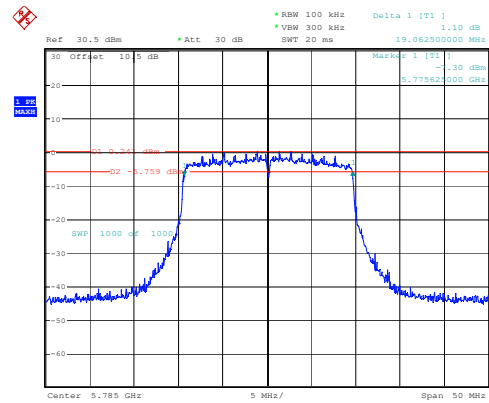
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802.11ax20_5745MHz_RU_Full



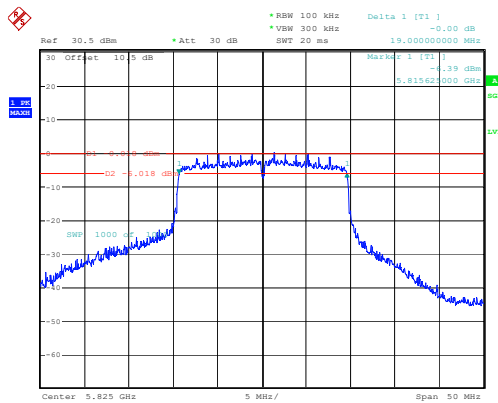
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802.11ax20_5785MHz_RU_Full



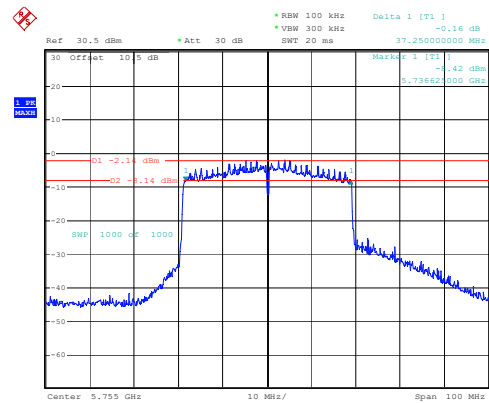
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802.11ax20_5825MHz_RU_Full



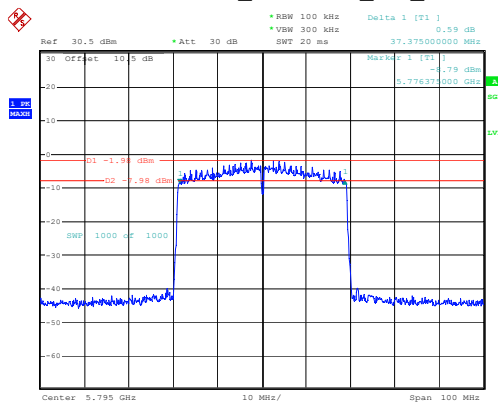
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802.11ax40_5755MHz_RU_Full



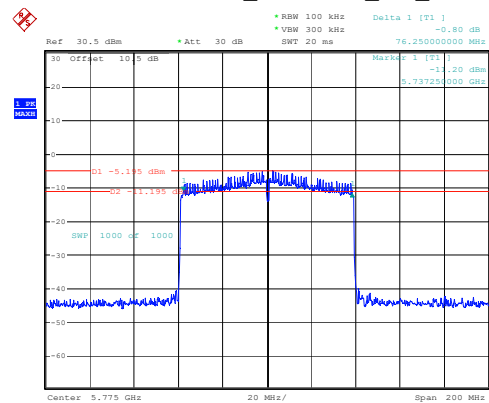
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802.11ax40_5795MHz_RU_Full



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Date: 26.DEC.2024 23:46:28

802.11ax80_5775MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2-ANT1 Tester:Brian Li
Date: 26.DEC.2024 23:52:16

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.550
	5200	16.550
	5240	16.600
802.11ac20	5180	18.063
	5200	18.188
	5240	17.813
802.11ac40	5190	36.750
	5230	36.375
802.11ac80	5210	76
802.11ax20_RU_Full	5180	19.250
	5200	19.250
	5240	18.875
802.11ax40_RU_Full	5190	37.875
	5230	37.625
802.11ax80_RU_Full	5210	77.250

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

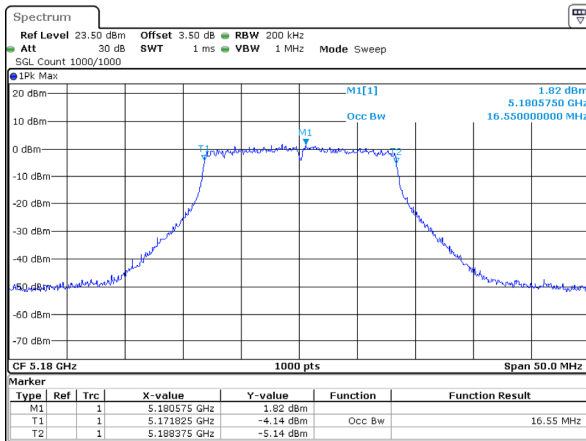
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.563
	5785	16.563
	5825	16.563
802.11ac20	5745	17.938
	5785	17.813
	5825	18.063
802.11ac40	5755	36.750
	5795	36.375
802.11ac80	5775	75.250
802.11ax20_RU_Full	5745	19.125
	5785	19
	5825	19.188
802.11ax40_RU_Full	5755	37.875
	5795	37.625
802.11ax80_RU_Full	5775	77.250

Note:

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

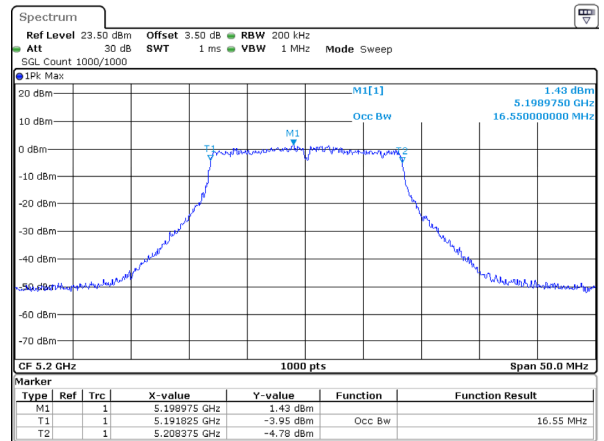
5150-5250MHz

802.11a_5180MHz



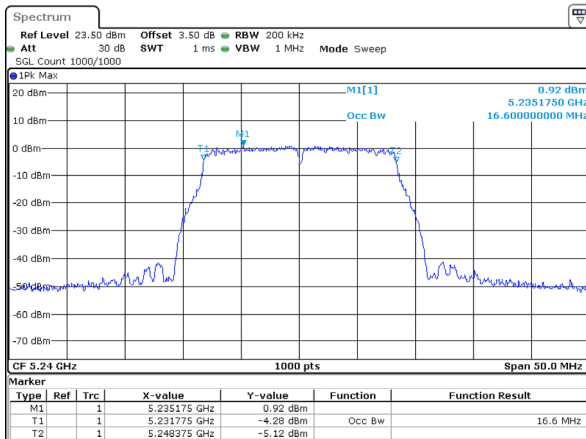
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802.11a_5200MHz



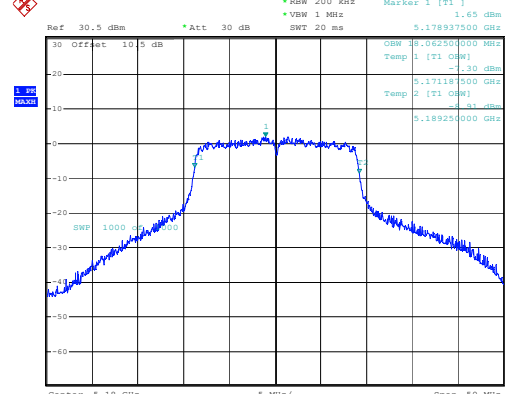
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802.11a_5240MHz



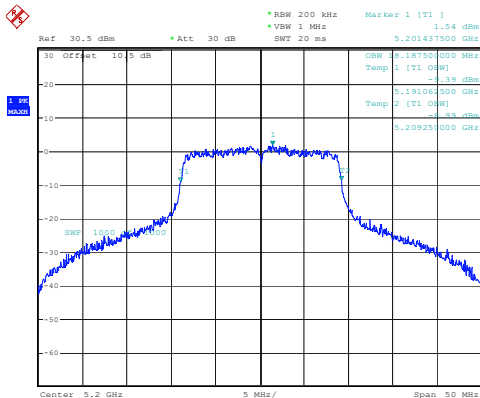
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802.11ac20_5180MHz



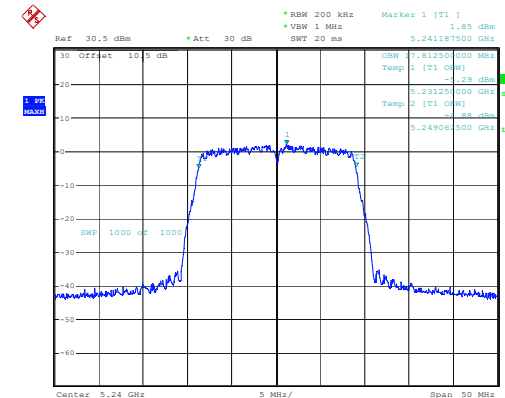
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802.11ac20_5200MHz



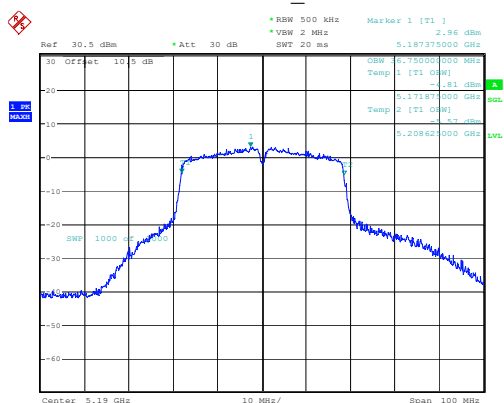
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802.11ac20_5240MHz



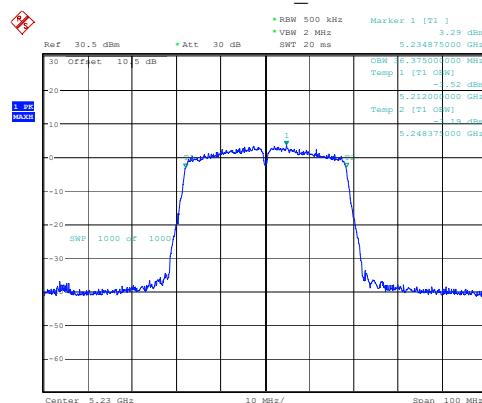
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802.11ac40_5190MHz



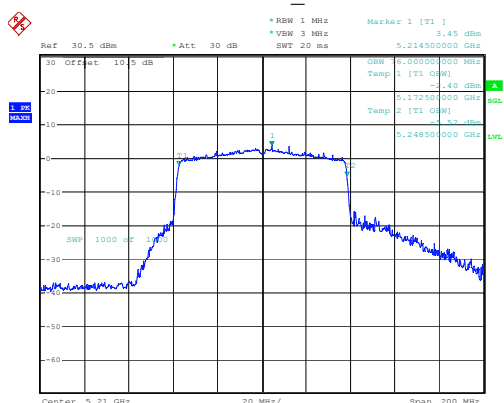
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802.11ac40_5230MHz



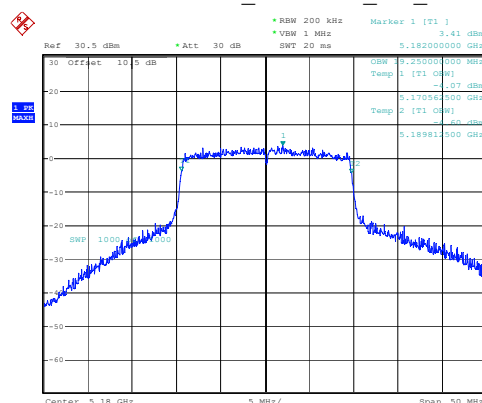
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802.11ac80_5210MHz



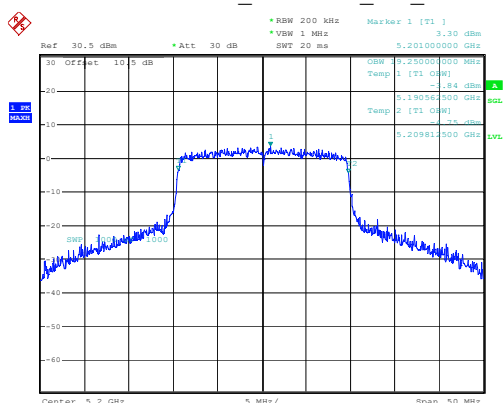
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802.11ax20_5180MHz_RU_Full



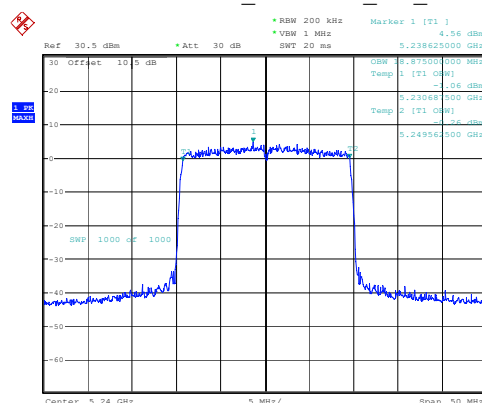
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802.11ax20_5200MHz_RU_Full



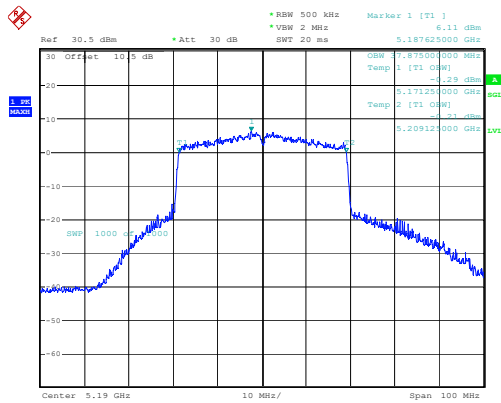
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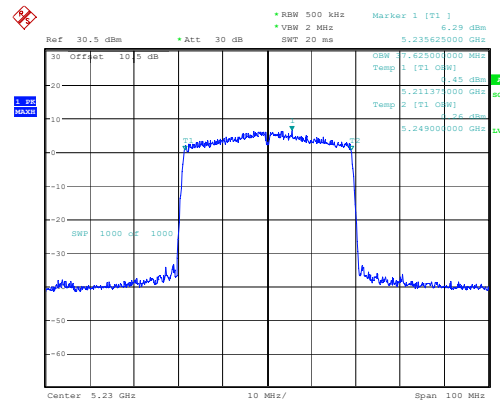
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Date: 26.DEC.2024 22:27:42

802.11ax40_5190MHz_RU_Full



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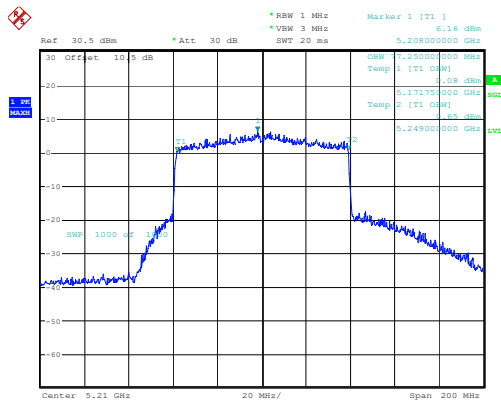
802.11ax40_5230MHz_RU_Full



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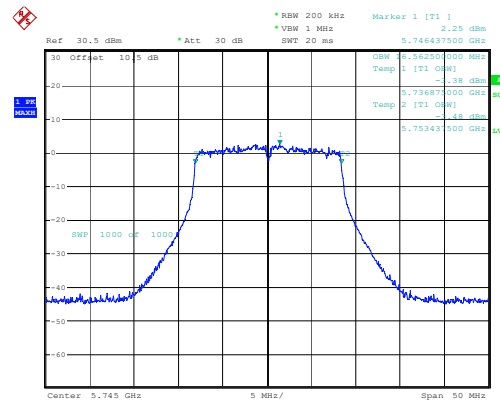
5725-5850MHz

802.11ax80_5210MHz_RU_Full



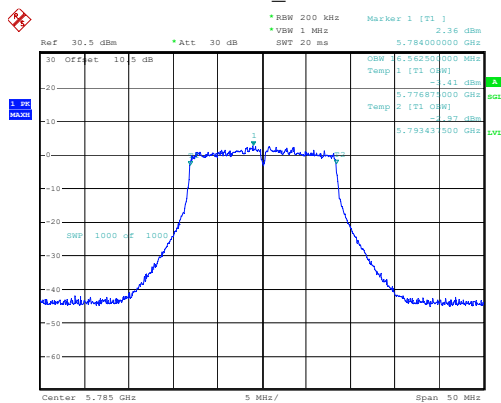
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802.11a_5745MHz



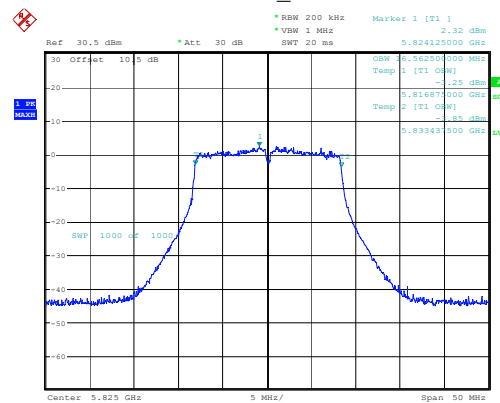
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802.11a_5785MHz

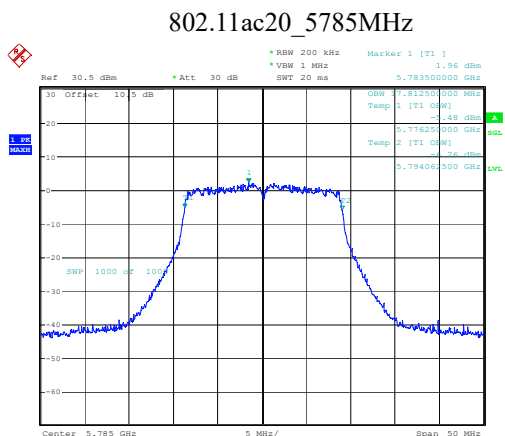


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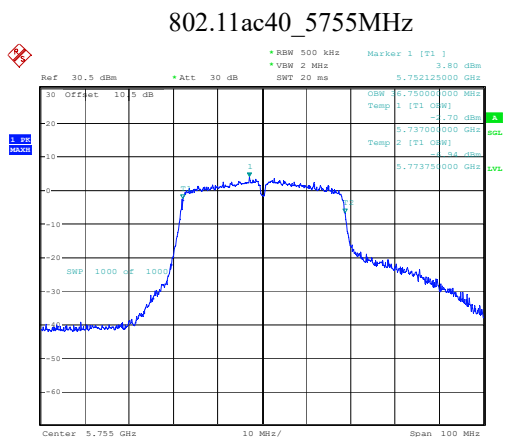
802.11a_5825MHz



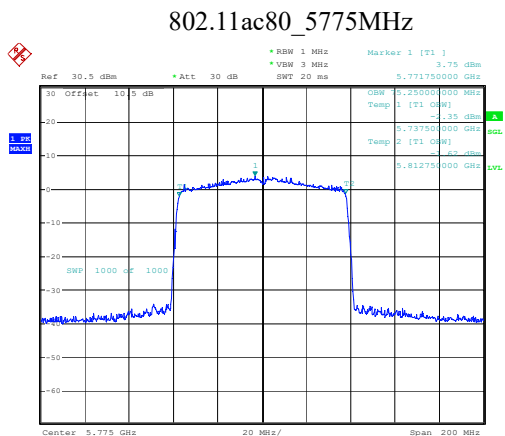
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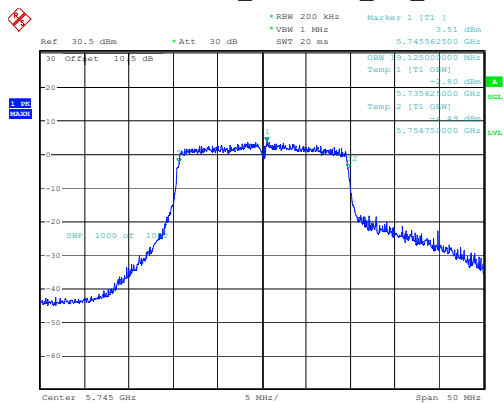


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Date: 26.DEC.2024 23:20:19



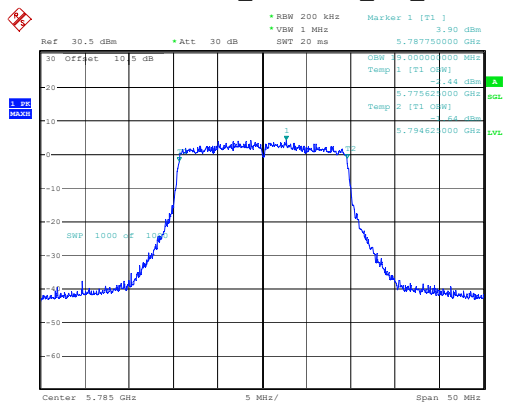
ProjectNo.:24012103823E-RF-2-ANT1 Tester:Brian Li
Date: 26.DEC.2024 23:28:58

802.11ax20_5745MHz_RU_Full



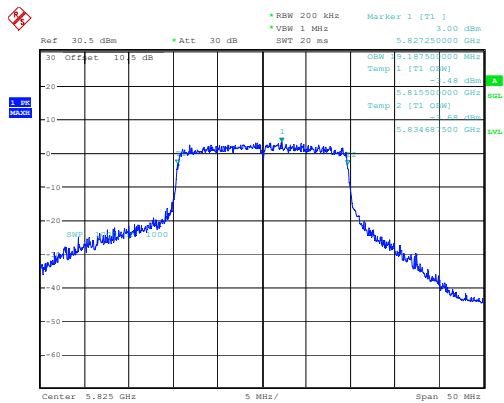
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802.11ax20_5785MHz_RU_Full



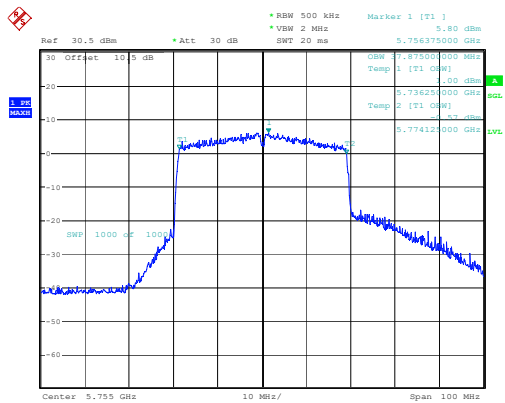
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802.11ax20_5825MHz_RU_Full



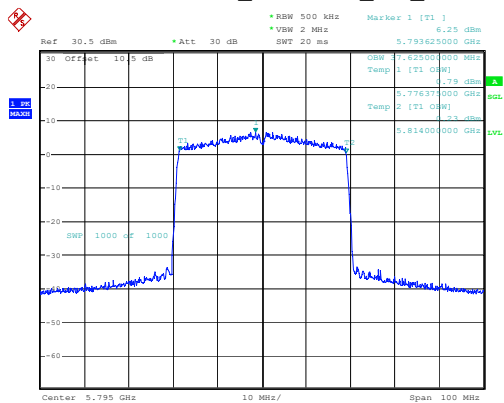
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Date: 26.DEC.2024 23:37:54

802.11ax40_5755MHz_RU_Full



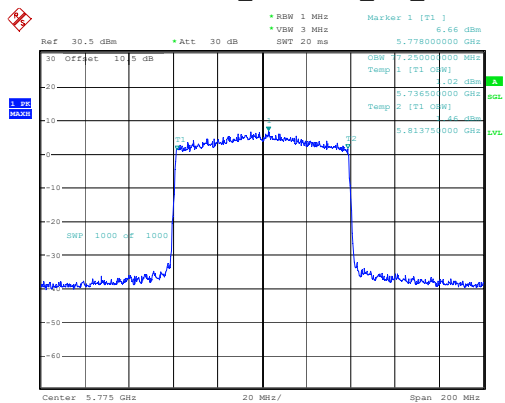
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Date: 26.DEC.2024 23:43:40

802.11ax40_5795MHz_RU_Full



ProjectNo.:24012103823E-RF-2-ANT1 Tester:Brian L
Date: 26.DEC.2024 23:48:16

802.11ax80_5775MHz_RU_Full



ProjectNo.:24012103823E-RF-2-ANT1 Tester:Brian Li
Date: 26.DEC.2024 23:54:06

Maximum Conducted Output Power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	9.83	30	Pass
	5200	9.72	30	Pass
	5240	9.85	30	Pass
802.11ac20	5180	10.54	30	Pass
	5200	10.52	30	Pass
	5240	11.22	30	Pass
802.11ac40	5190	10.59	30	Pass
	5230	11.04	30	Pass
802.11ac80	5210	9.62	30	Pass
802.11ax20_RU_Full	5180	10.83	30	Pass
	5200	10.83	30	Pass
	5240	11.58	30	Pass
802.11ax40_RU_Full	5190	11.09	30	Pass
	5230	11.47	30	Pass
802.11ax80_RU_Full	5210	10.46	30	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	11.18	30	Pass
	5785	11.3	30	Pass
	5825	11.41	30	Pass
802.11ac20	5745	11.3	30	Pass
	5785	11.87	30	Pass
	5825	11.55	30	Pass
802.11ac40	5755	11.59	30	Pass
	5795	11.89	30	Pass
802.11ac80	5775	11.38	30	Pass
802.11ax20_RU_Full	5745	11.38	30	Pass
	5785	11.97	30	Pass
	5825	11.65	30	Pass
802.11ax40_RU_Full	5755	11.77	30	Pass
	5795	12.18	30	Pass
802.11ax80_RU_Full	5775	11.64	30	Pass

Power Spectral Density

5150-5250MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	-0.10	1.14	1.04	17	Pass
	5200	-0.75	1.14	0.39	17	Pass
	5240	-0.53	1.14	0.61	17	Pass
802.11ac20	5180	-0.35	0.19	-0.16	17	Pass
	5200	-0.45	0.19	-0.26	17	Pass
	5240	0.39	0.19	0.58	17	Pass
802.11ac40	5190	-2.88	0.38	-2.50	17	Pass
	5230	-2.45	0.38	-2.07	17	Pass
802.11ac80	5210	-6.78	0.70	-6.08	17	Pass
802.11ax20_RU_Full	5180	-0.21	/	-0.21	17	Pass
	5200	-0.27	/	-0.27	17	Pass
	5240	0.69	/	0.69	17	Pass
802.11ax40_RU_Full	5190	-1.95	0.13	-1.82	17	Pass
	5230	-1.65	0.13	-1.52	17	Pass
802.11ax80_RU_Full	5210	-5.59	0.25	-5.34	17	Pass

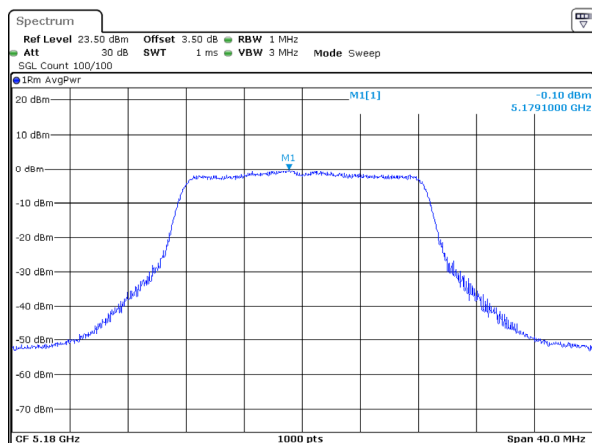
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-3.06	1.14	-1.92	30	Pass
	5785	-2.67	1.14	-1.53	30	Pass
	5825	-2.63	1.14	-1.49	30	Pass
802.11ac20	5745	-2.56	0.19	-2.37	30	Pass
	5785	-2.00	0.19	-1.81	30	Pass
	5825	-2.25	0.19	-2.06	30	Pass
802.11ac40	5755	-4.71	0.38	-4.33	30	Pass
	5795	-4.64	0.38	-4.26	30	Pass
802.11ac80	5775	-8.25	0.70	-7.55	30	Pass
802.11ax20_RU_Full	5745	-2.71	/	-2.71	30	Pass
	5785	-1.61	/	-1.61	30	Pass
	5825	-1.99	/	-1.99	30	Pass
802.11ax40_RU_Full	5755	-4.71	0.13	-4.58	30	Pass
	5795	-4.25	0.13	-4.12	30	Pass
802.11ax80_RU_Full	5775	-7.45	0.25	-7.20	30	Pass

Result = Reading + Duty Cycle Factor

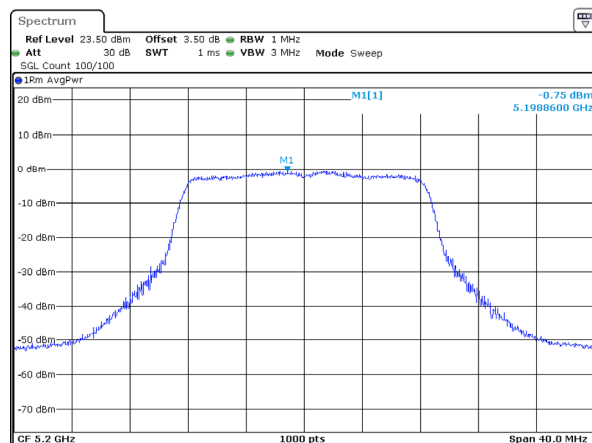
5150-5250MHz

802.11a_5180MHz



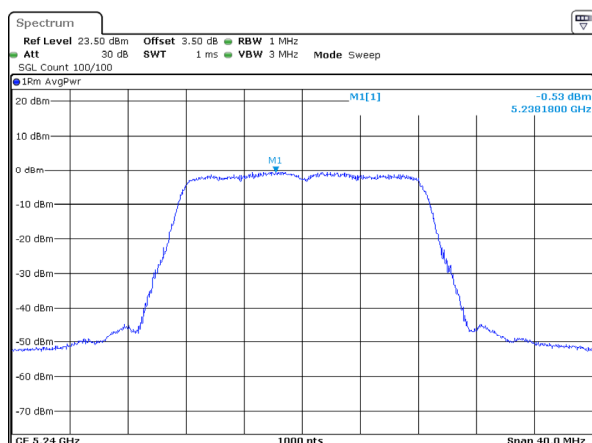
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802.11a_5200MHz



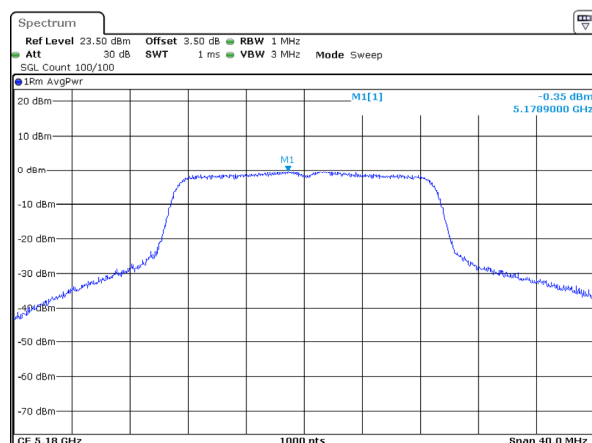
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802.11a_5240MHz



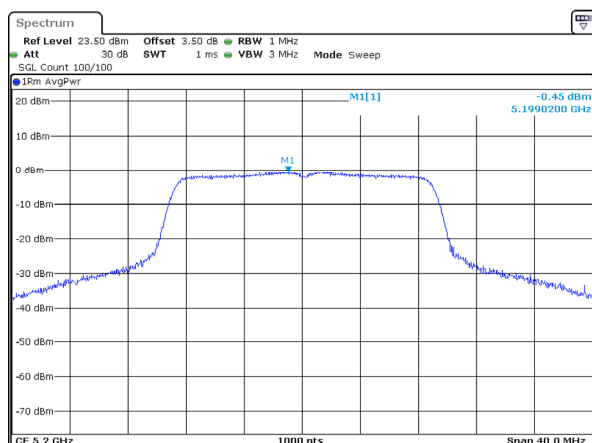
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802.11ac20_5180MHz



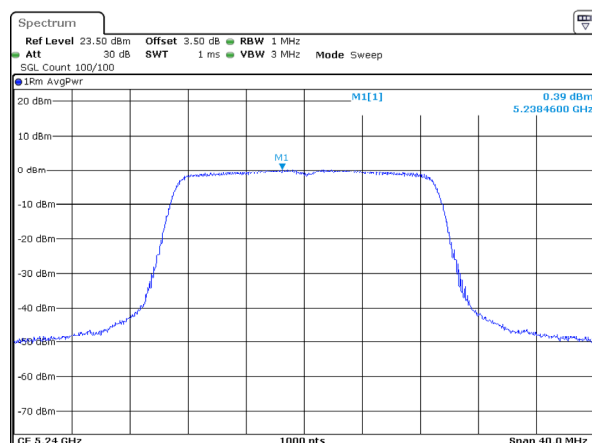
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Date: 30.DEC.2024 21:47:08

802.11ac20_5200MHz



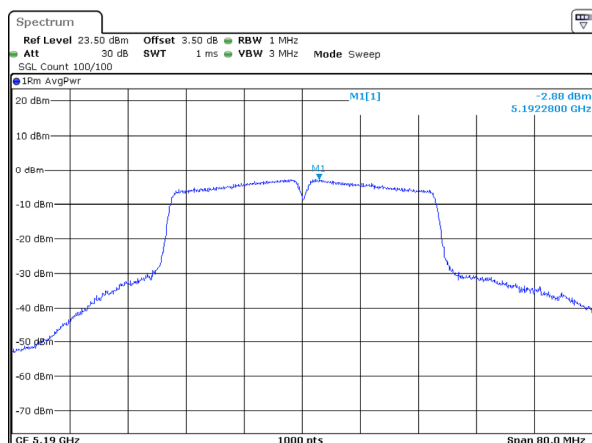
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802.11ac20_5240MHz



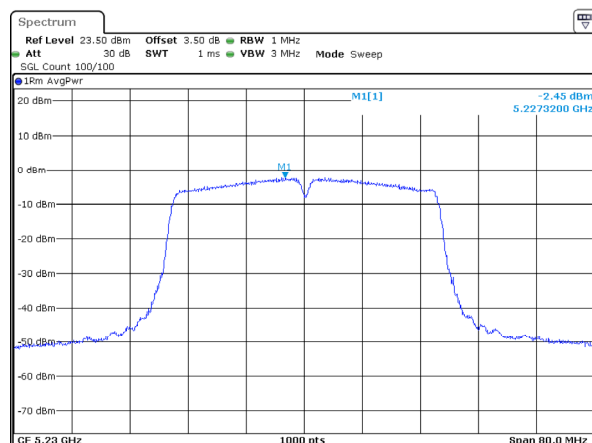
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802.11ac40_5190MHz



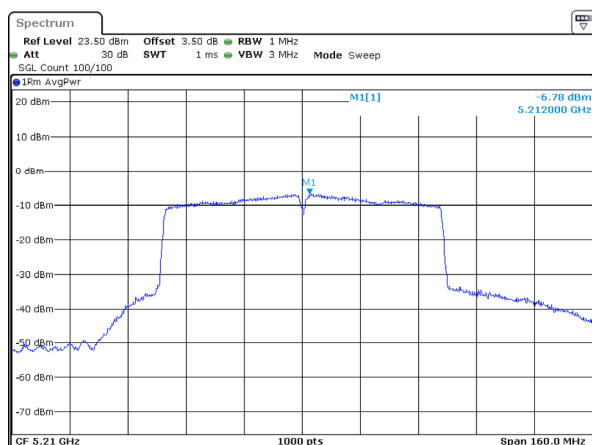
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802.11ac40_5230MHz



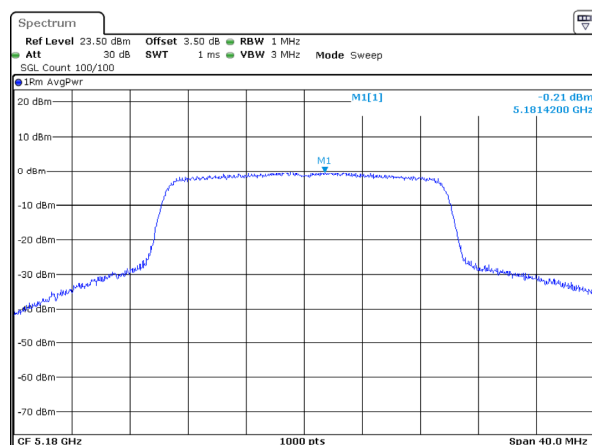
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802.11ac80_5210MHz



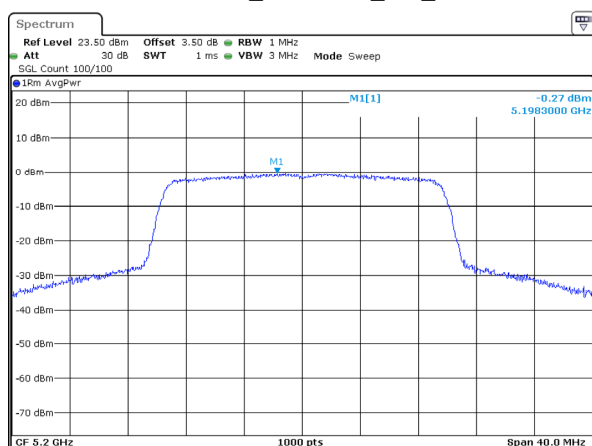
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802.11ax20_5180MHz_RU_Full



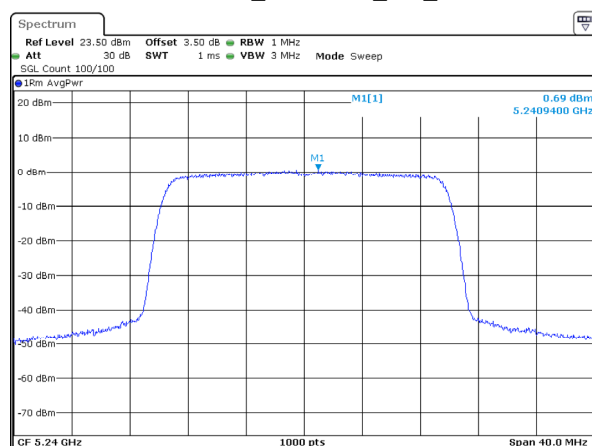
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802.11ax20_5200MHz_RU_Full



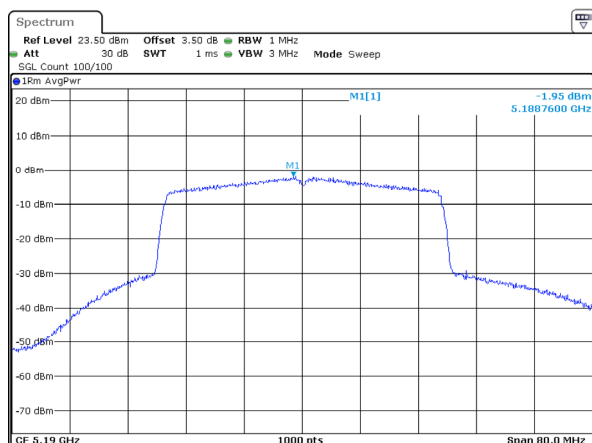
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802.11ax20_5240MHz_RU_Full



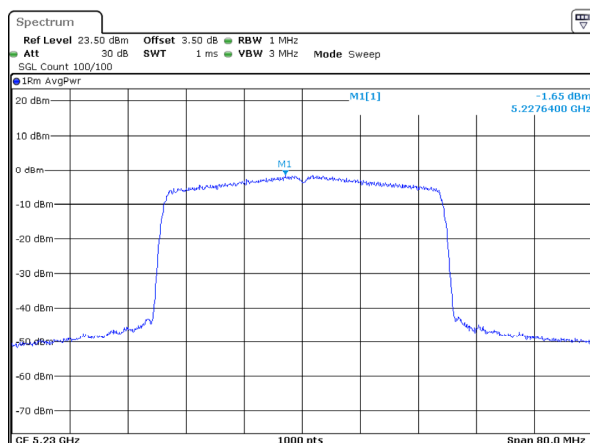
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802.11ax40_5190MHz_RU_Full



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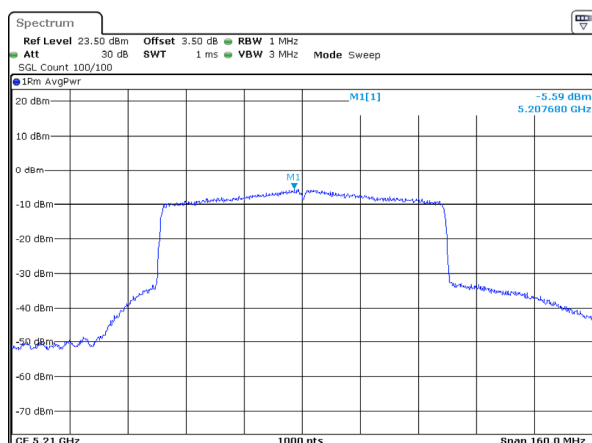
802.11ax40_5230MHz_RU_Full



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Date: 30.DEC.2024 22:06:59

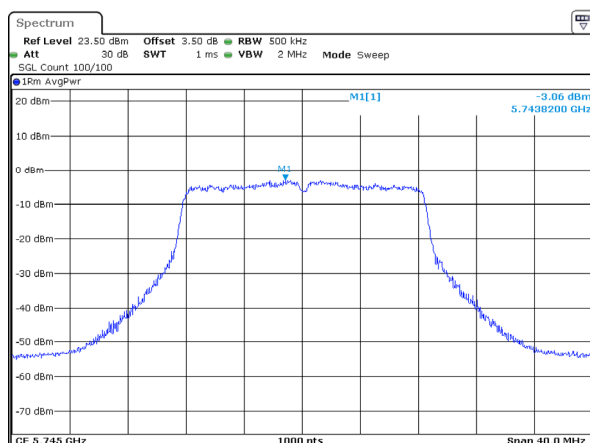
5725-5850MHz

802.11ax80_5210MHz_RU_Full



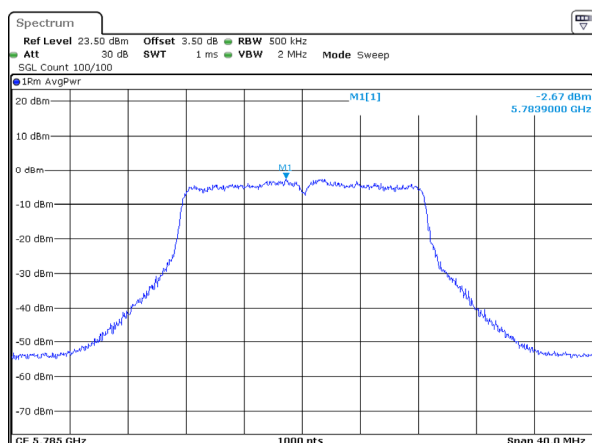
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802.11a_5745MHz



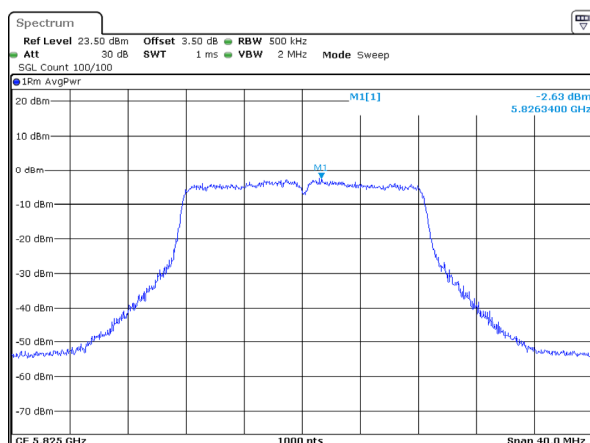
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802.11a_5785MHz



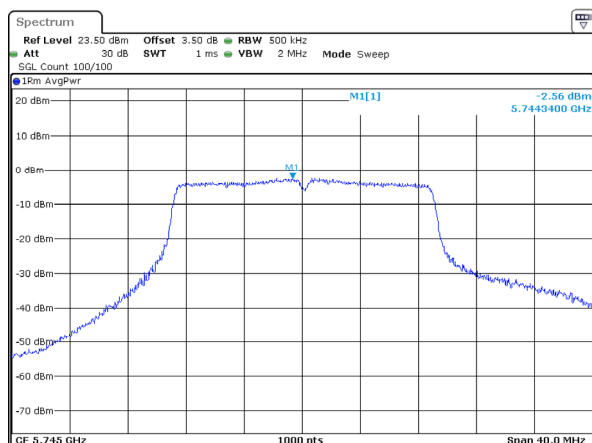
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Date: 30.DEC.2024 22:16:01

802.11a_5825MHz



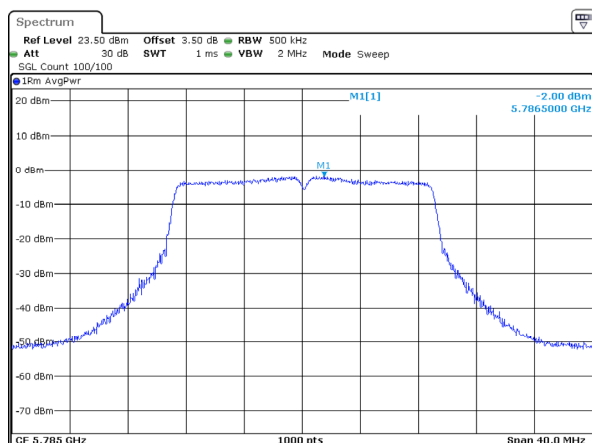
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802.11ac20_5745MHz



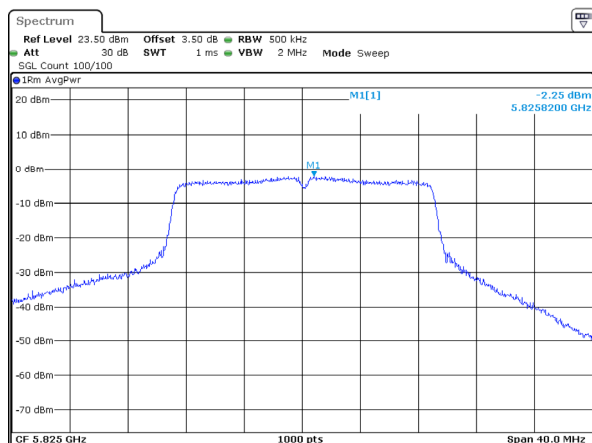
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Date: 30.DEC.2024 22:22:06

802.11ac20_5785MHz



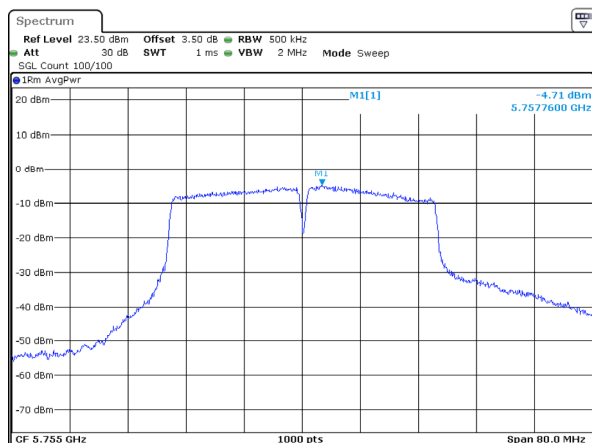
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802.11ac20_5825MHz



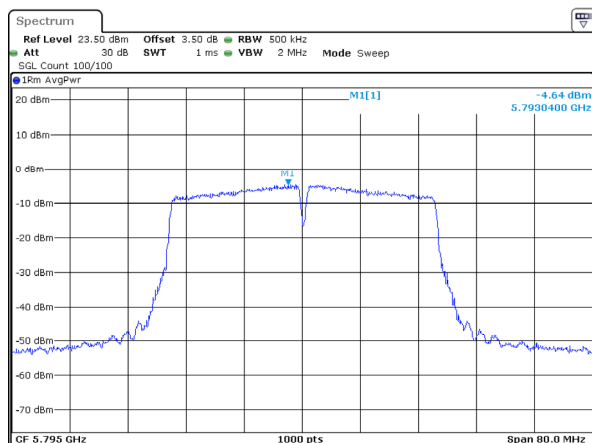
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802.11ac40_5755MHz



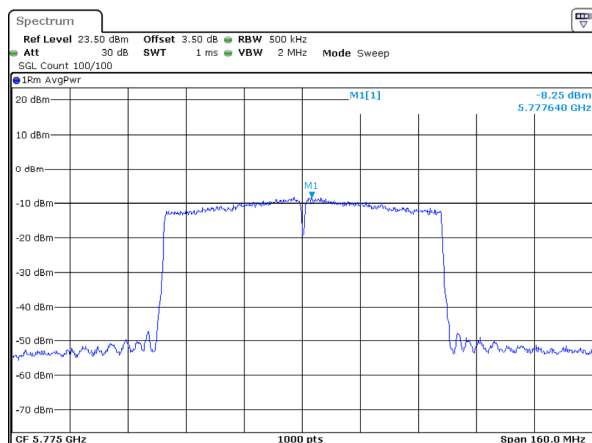
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802.11ac40_5795MHz



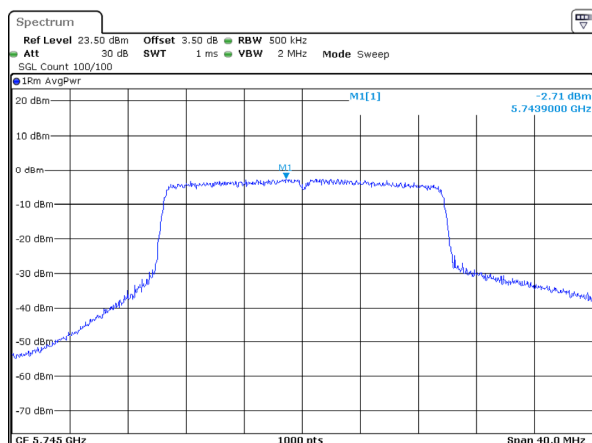
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802.11ac80_5775MHz



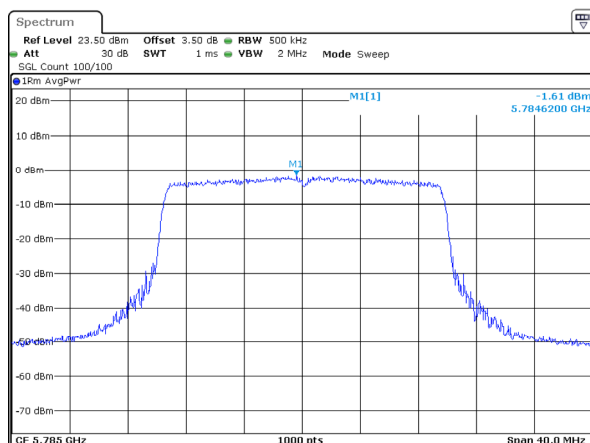
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802.11ax20_5745MHz_RU_Full



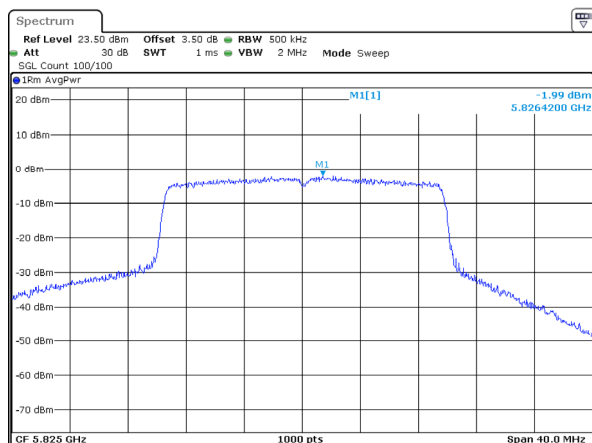
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802.11ax20_5785MHz_RU_Full



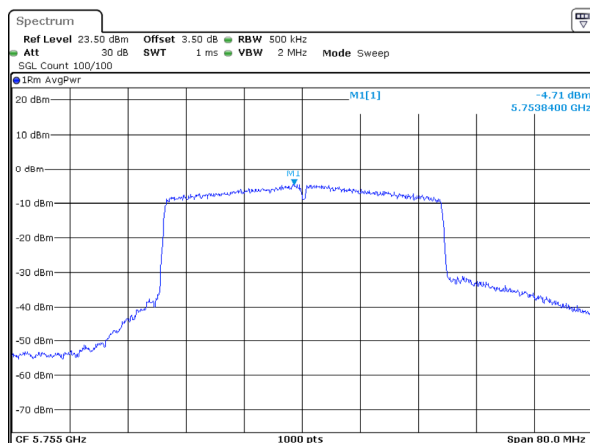
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Date: 30.DEC.2024 22:26:44

802.11ax20_5825MHz_RU_Full



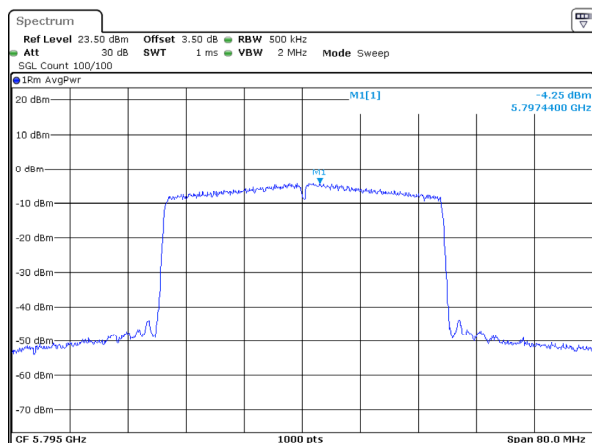
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802.11ax40_5755MHz_RU_Full



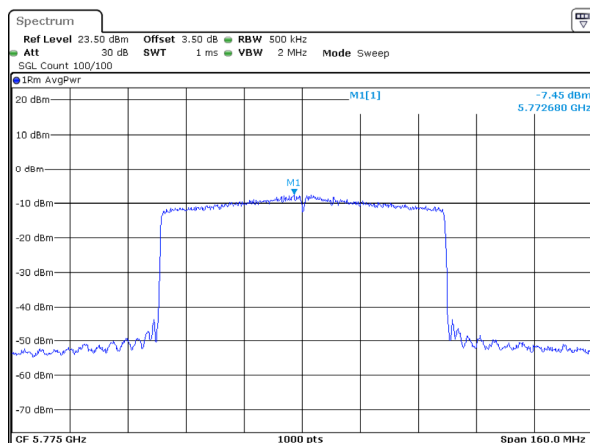
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802.11ax40_5795MHz_RU_Full



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Date: 30.DEC.2024 22:28:25

802.11ax80_5775MHz_RU_Full



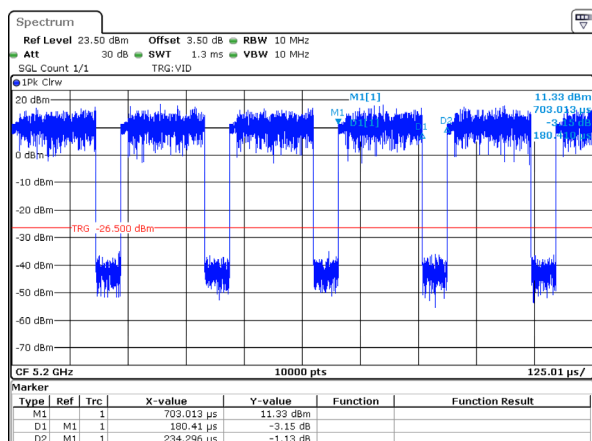
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Date: 30.DEC.2024 22:29:00

Duty Cycle

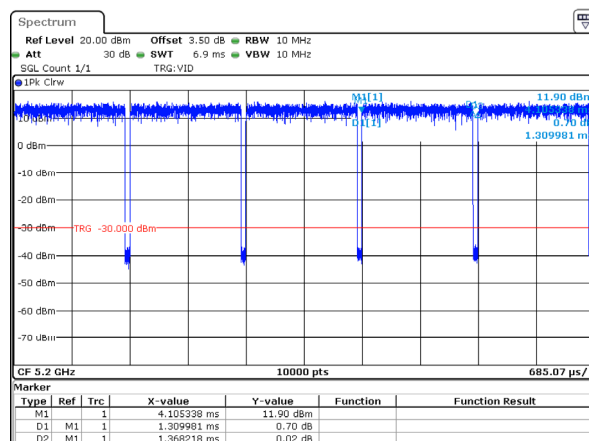
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	0.180	0.234	76.92	1.14	5556	10
802.11ac20	5200	1.310	1.368	95.76	0.19	763	1
802.11ac40	5190	0.653	0.712	91.71	0.38	1531	2
802.11ac80	5210	0.324	0.381	85.04	0.70	3086	5
802.11ax20_RU_Full	5200	3.866	3.927	98.45	/	/	0.010
802.11ax40_RU_Full	5190	1.973	2.031	97.14	0.13	507	1
802.11ax80_RU_Full	5210	0.976	1.034	94.39	0.25	1025	2

Duty Cycle = Ton/(Ton+Toff)*100%

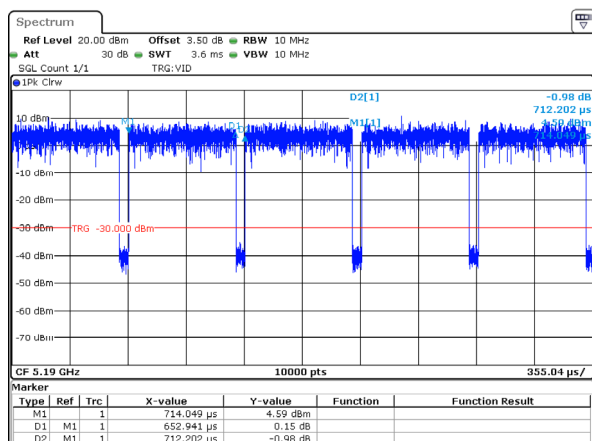
802.11a_5200MHz



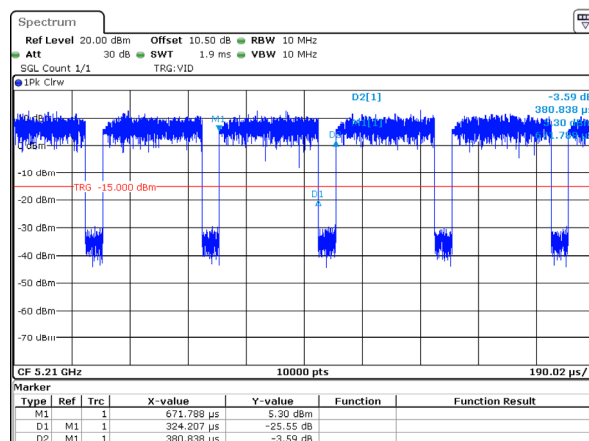
802.11ac20_5200MHz



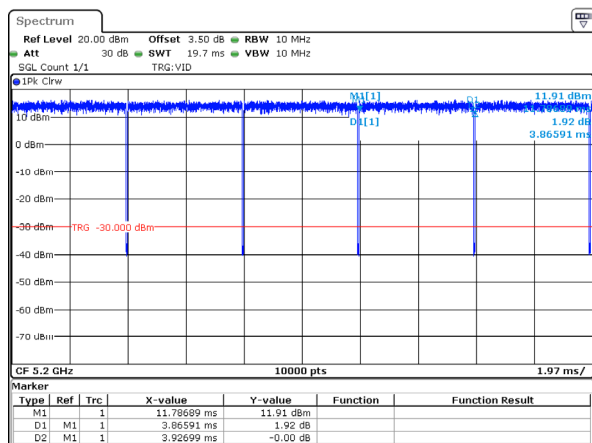
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802.11ac80_5210MHz

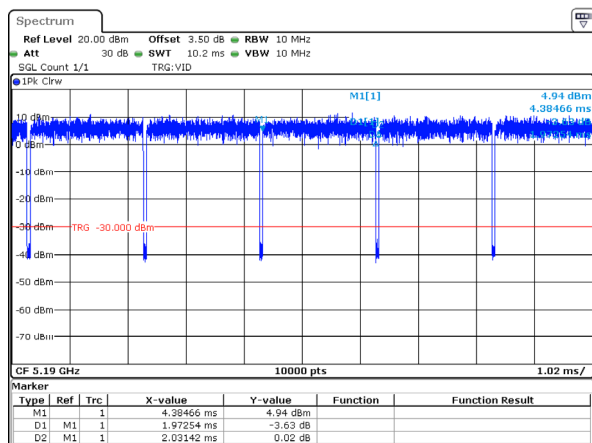


802.11ax20_5200MHz_RU_Full



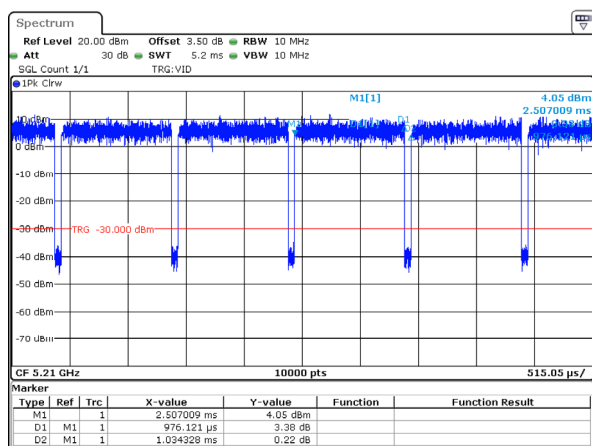
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802.11ax40_5190MHz_RU_Full



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Date: 26.DEC.2024 00:18:41

802.11ax80_5210MHz_RU_Full



ProjectNo.:2401Z103823E-RF-2-ANT1 Tester:Brian LI
Date: 26.DEC.2024 00:21:25