

Appendix E- 5GWi-Fi for Module YL43752 ANT1

Test Information:

Sample No.:	2Y0T-2	Test Date:	2025/02/21~2025/05/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4~26.1	Relative Humidity: (%)	45~52	ATM Pressure: (kPa)	100.0~101.3
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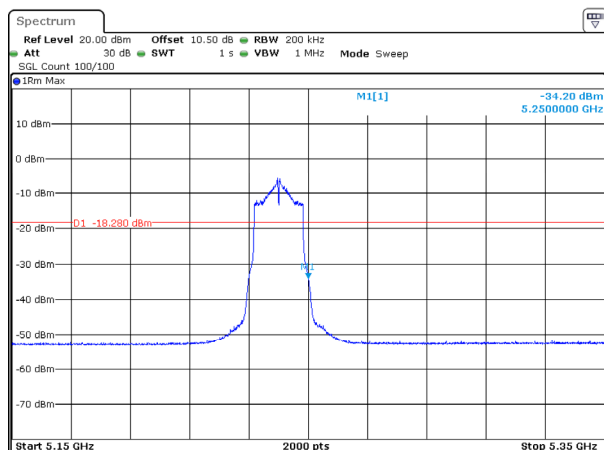
26dB attenuated below the channel power

5150-5250MHz

Mode	Test Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11a	5240	-34.20	-18.28	Pass
802.11ac20	5240	-32.27	-18.19	Pass
802.11ac40	5230	-38.65	-18.16	Pass
802.11ac80	5210	-36.13	-17.73	Pass
802.11ax20_RU_Full	5240	-33.14	-17.87	Pass
802.11ax40_RU_Full	5230	-39.11	-17.94	Pass
802.11ax80_RU_Full	5210	-30.89	-17.62	Pass

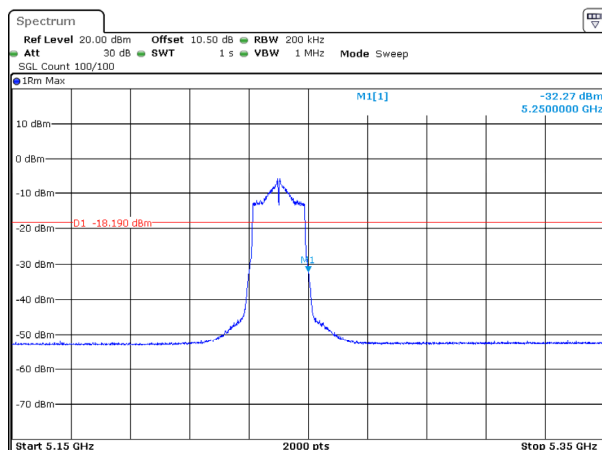
5150-5250MHz

802.11a_5240MHz



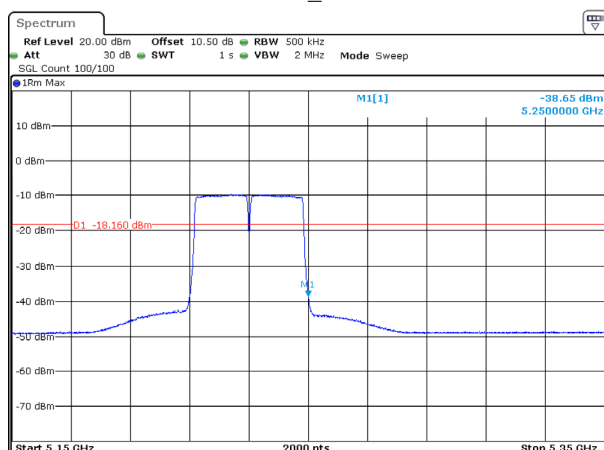
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 10:19:11

802.11ac20_5240MHz



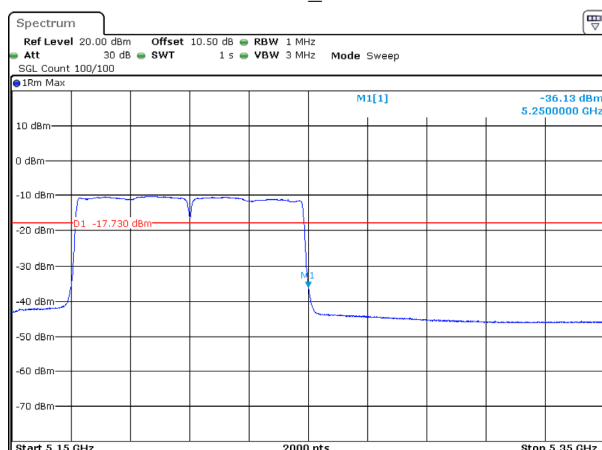
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Date: 21.FEB.2025 10:29:21

802.11ac40_5230MHz



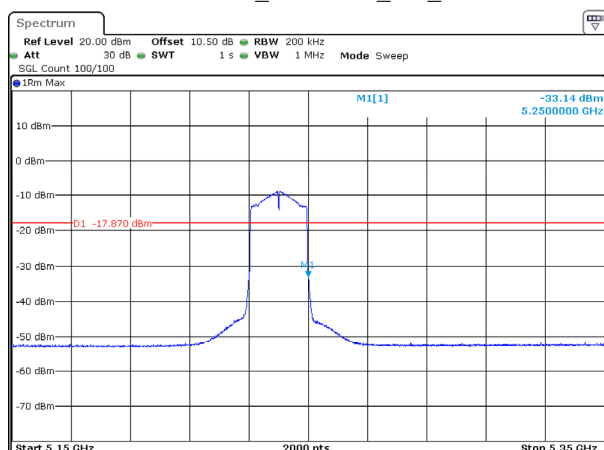
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Date: 21.FEB.2025 10:36:24

802.11ac80_5210MHz



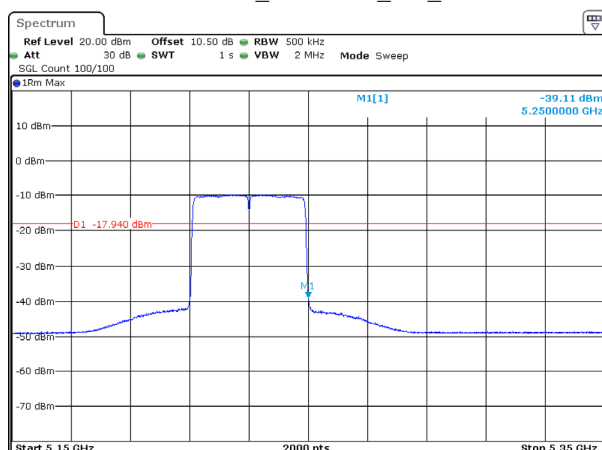
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Date: 21.FEB.2025 10:42:39

802.11ax20_5240MHz_RU_Full



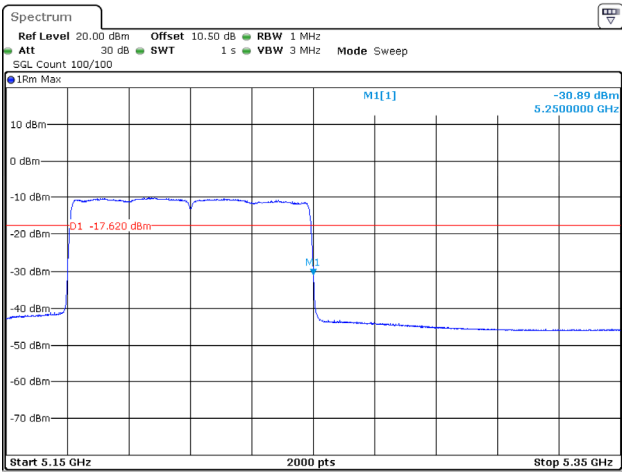
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Date: 21.FEB.2025 11:04:37

802.11ax40_5230MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:12:02

802.11ax80_5210MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:15:37

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	21.106
	5200	21.105
	5240	21.102
802.11ac20	5180	21.623
	5200	21.292
	5240	21.465
802.11ac40	5190	40.641
	5230	40.741
802.11ac80	5210	82.482
802.11ax20_RU_Full	5180	21.612
	5200	21.722
	5240	21.546
802.11ax40_RU_Full	5190	40.741
	5230	40.541
802.11ax80_RU_Full	5210	82.683

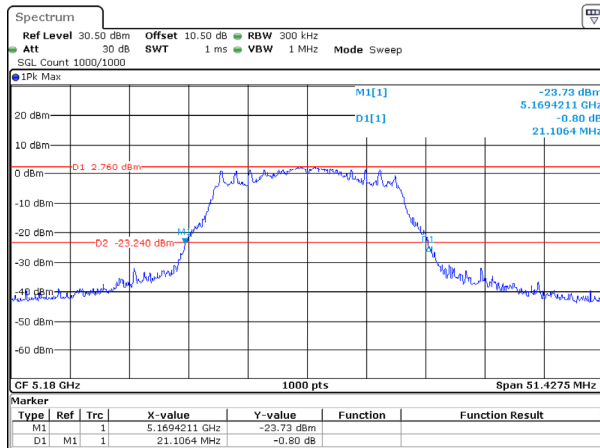
6dB Emission Bandwidth

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	15.265	0.5	Pass
	5825	15.315	0.5	Pass
802.11ac40	5755	36.537	0.5	Pass
	5795	36.436	0.5	Pass
802.11ac80	5775	76.677	0.5	Pass
802.11ax20_RU_Full	5745	18.769	0.5	Pass
	5785	18.669	0.5	Pass
	5825	18.669	0.5	Pass
802.11ax40_RU_Full	5755	37.838	0.5	Pass
	5795	37.738	0.5	Pass
802.11ax80_RU_Full	5775	77.878	0.5	Pass

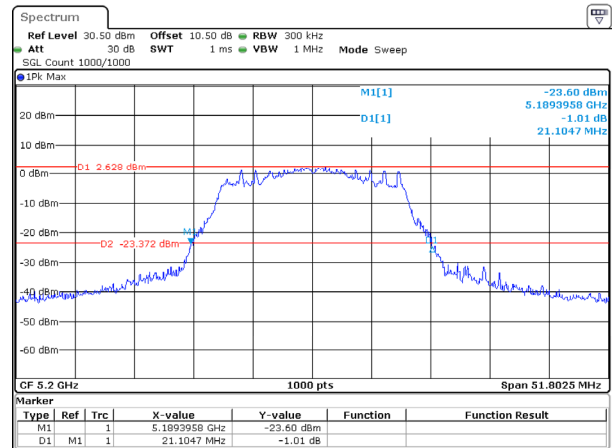
5150-5250MHz

802.11a_5180MHz



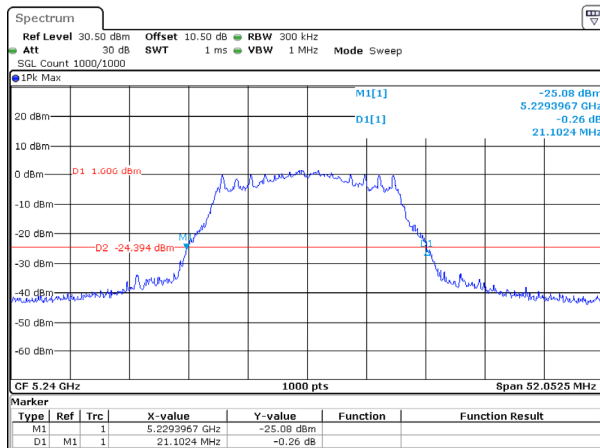
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Date: 21.FEB.2025 09:59:20

802.11a_5200MHz



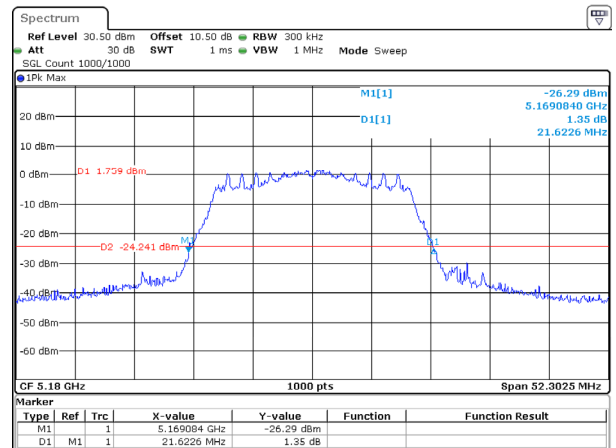
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802.11a_5240MHz



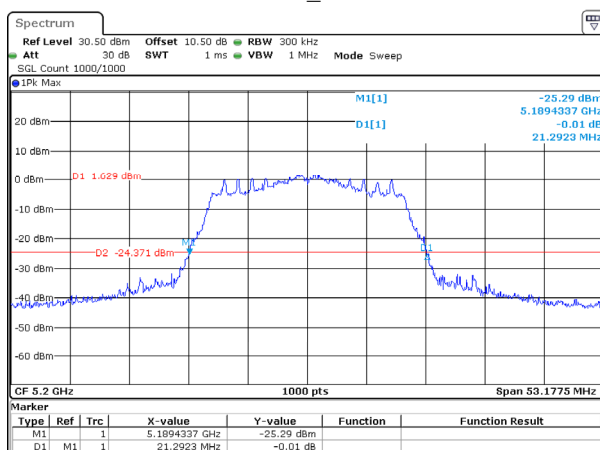
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Date: 21.FEB.2025 10:05:16

802.11ac20_5180MHz



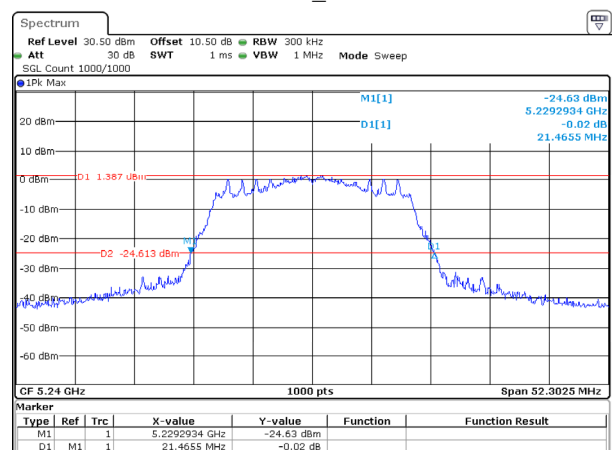
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Date: 21.FEB.2025 10:08:28

802.11ac20_5200MHz



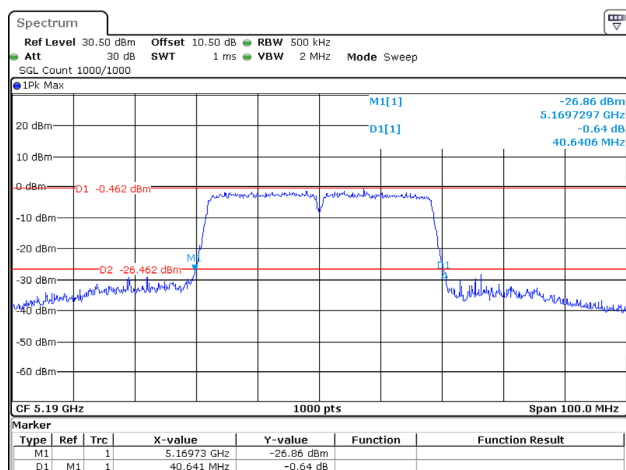
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Date: 21.FEB.2025 10:10:31

802.11ac20_5240MHz



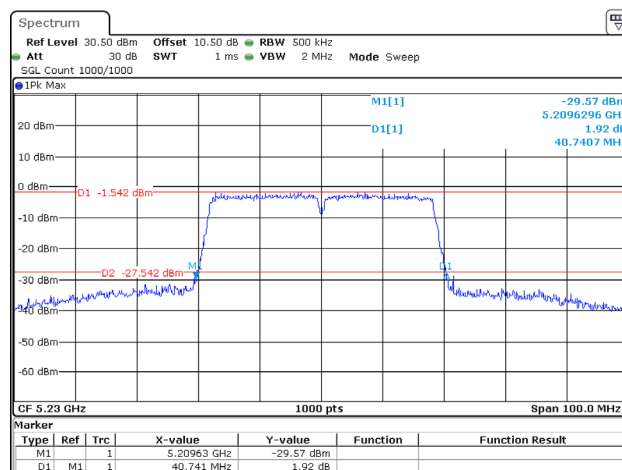
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Date: 21.FEB.2025 10:26:17

802.11ac40_5190MHz



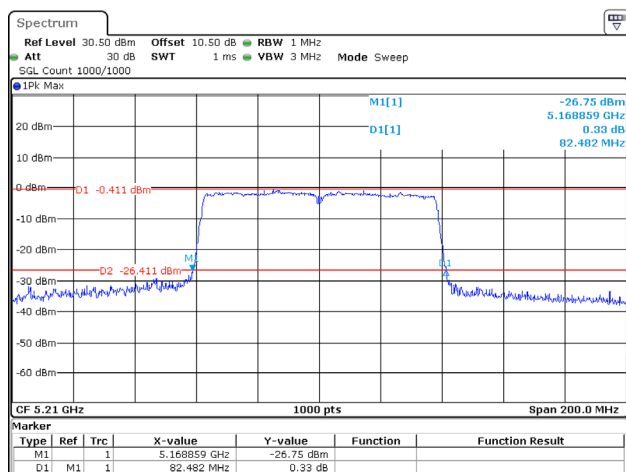
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802.11ac40_5230MHz



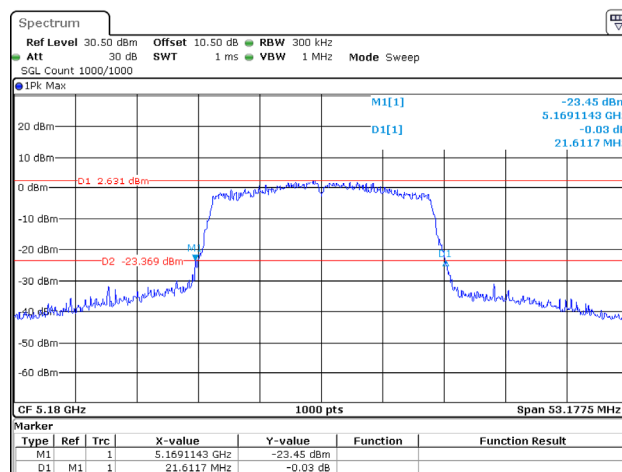
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802.11ac80_5210MHz



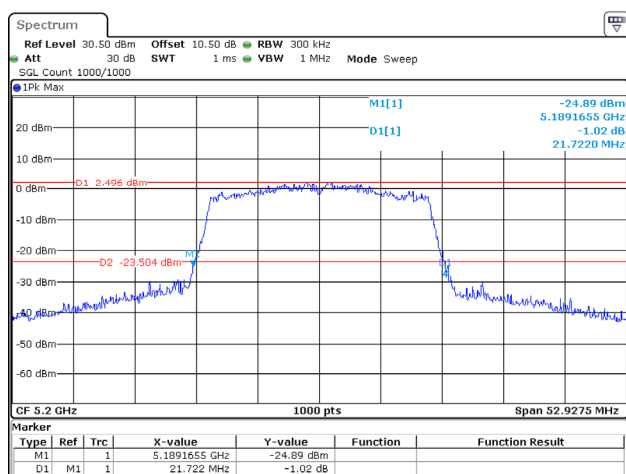
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Date: 21.FEB.2025 10:39:53

802.11ax20_5180MHz_RU_Full



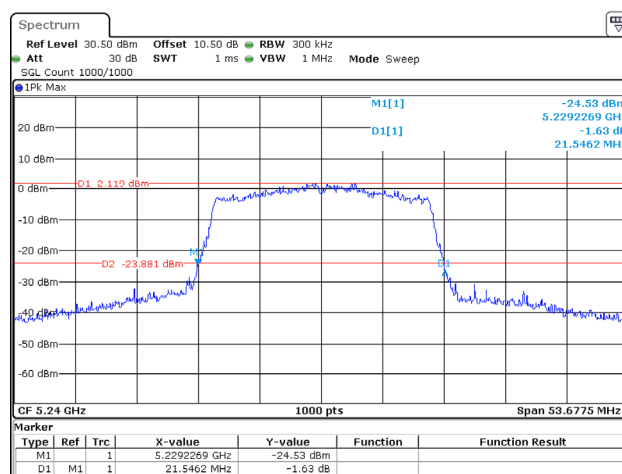
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802.11ax20_5200MHz_RU_Full



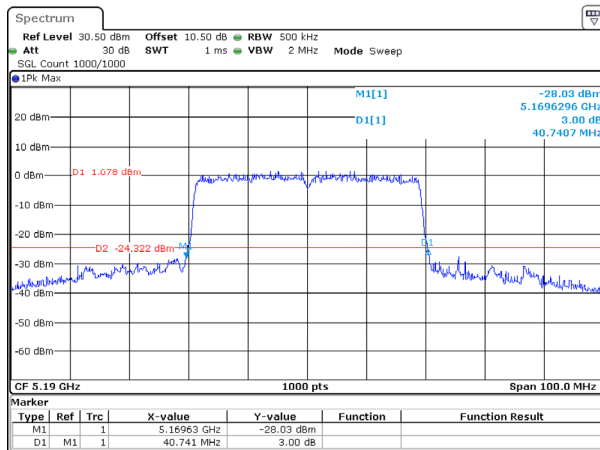
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802.11ax20_5240MHz_RU_Full



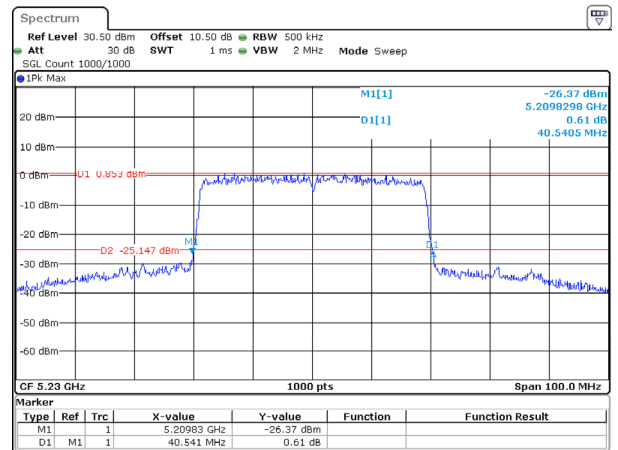
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802.11ax40_5190MHz_RU_Full



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Date: 21.FEB.2025 11:05:50

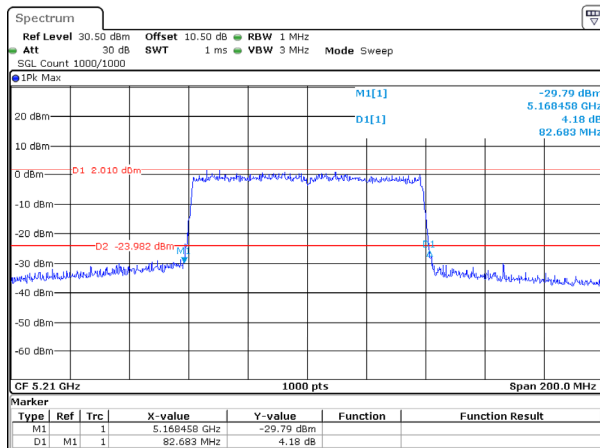
802.11ax40_5230MHz_RU_Full



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Date: 21.FEB.2025 11:09:18

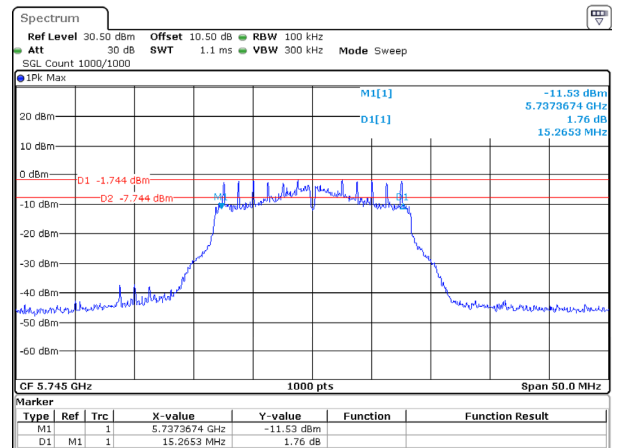
5725-5850MHz

802.11ax80_5210MHz_RU_Full



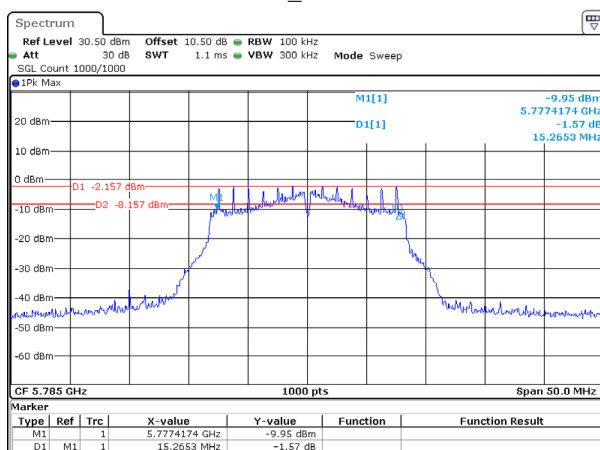
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802.11a_5745MHz



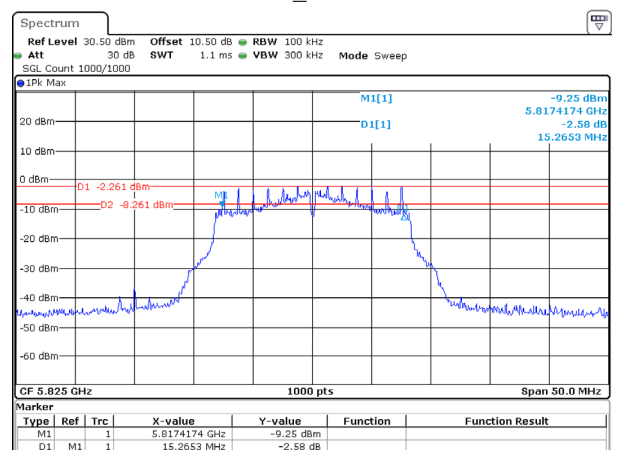
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Date: 21.FEB.2025 11:20:30

802.11a_5785MHz



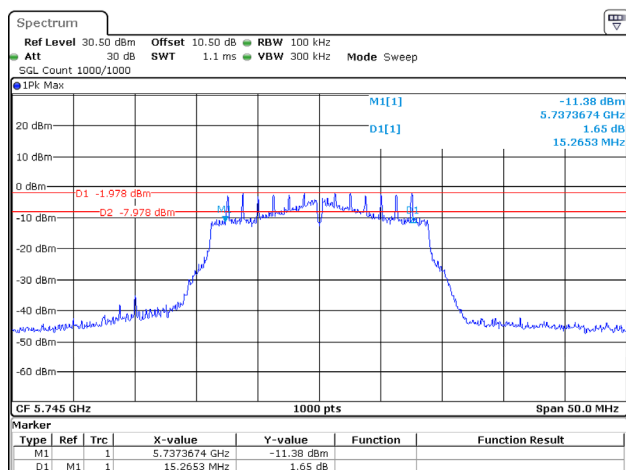
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Date: 21.FEB.2025 11:22:48

802.11a_5825MHz



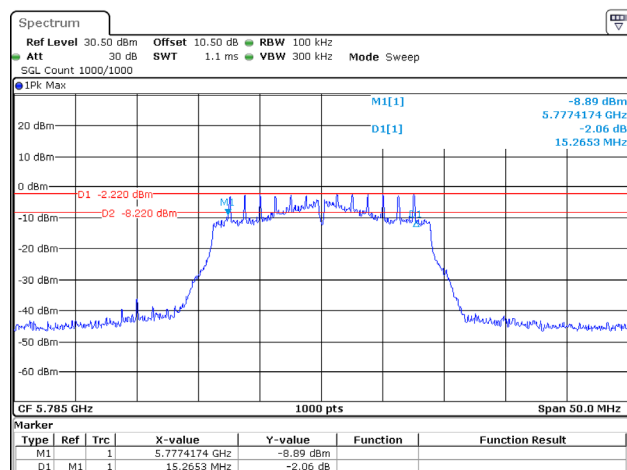
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802.11ac20_5745MHz



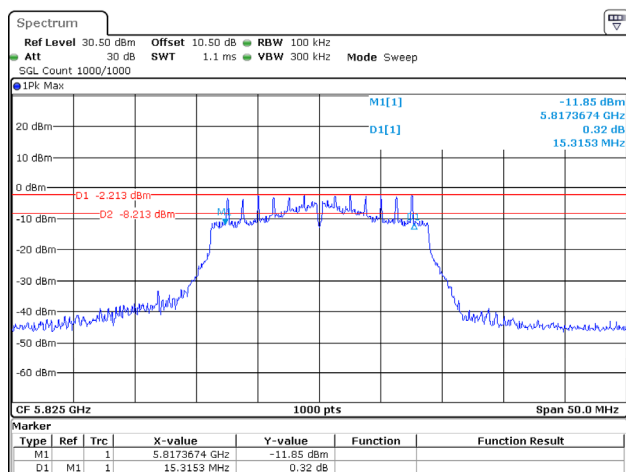
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Date: 21.FEB.2025 11:27:20

802.11ac20_5785MHz



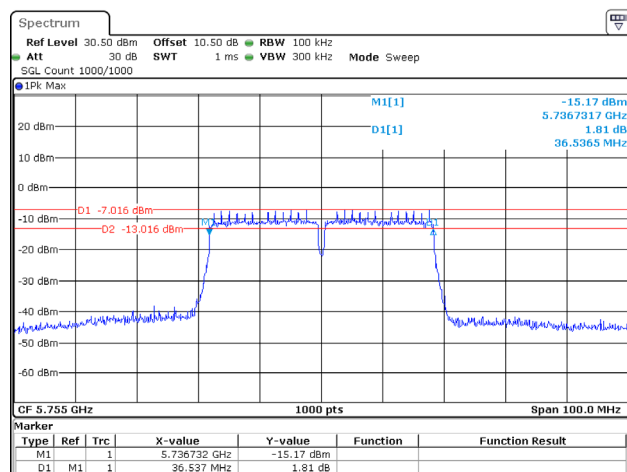
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:30:19

802.11ac20_5825MHz



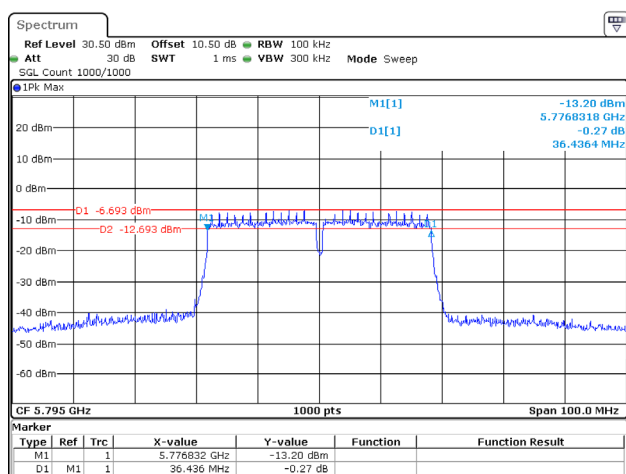
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802.11ac40_5755MHz



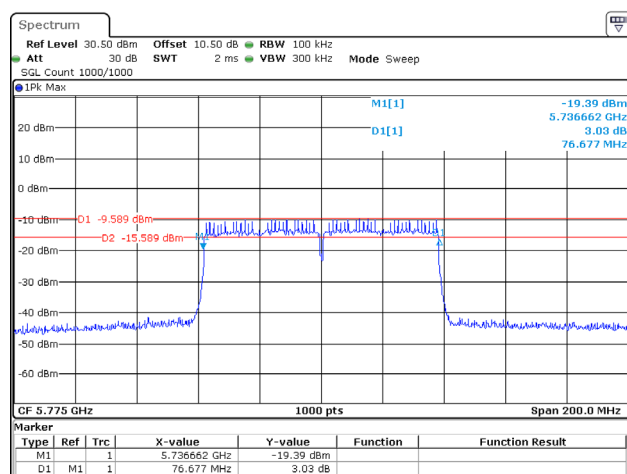
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Date: 21.FEB.2025 11:43:06

802.11ac40_5795MHz



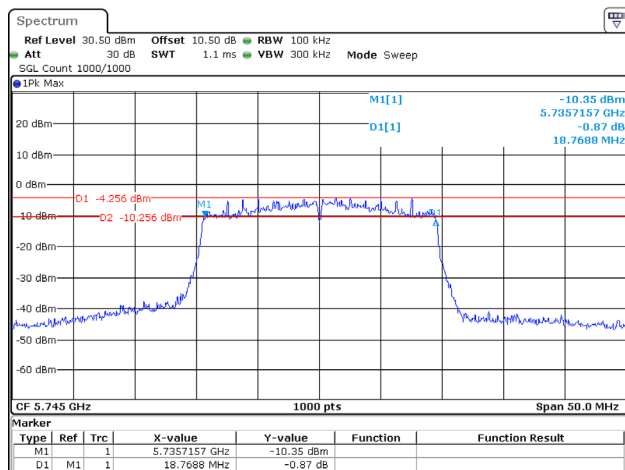
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Date: 21.FEB.2025 11:44:21

802.11ac80_5775MHz



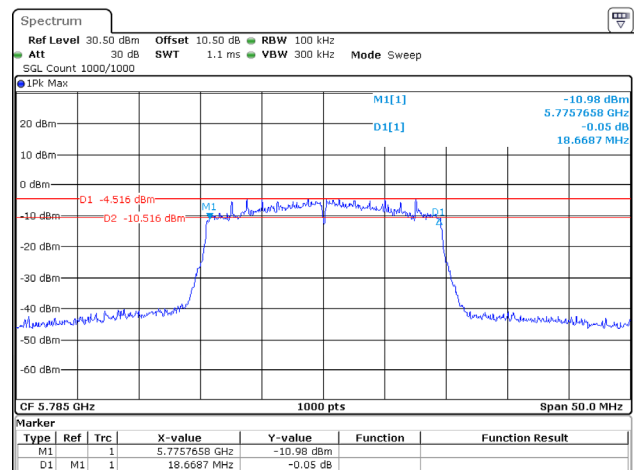
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Date: 21.FEB.2025 11:45:49

802.11ax20_5745MHz_RU_Full



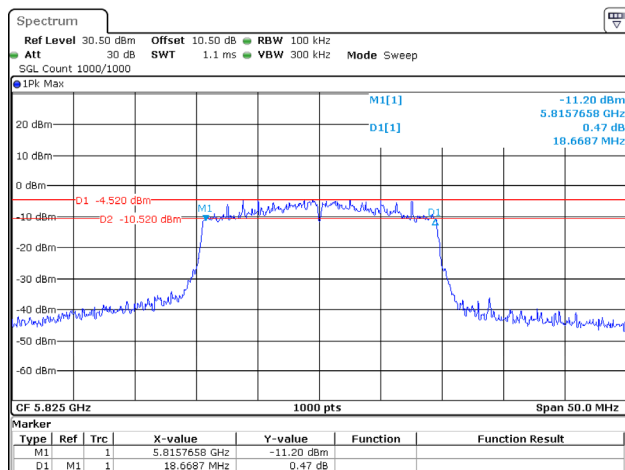
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Date: 21.FEB.2025 11:47:49

802.11ax20_5785MHz_RU_Full



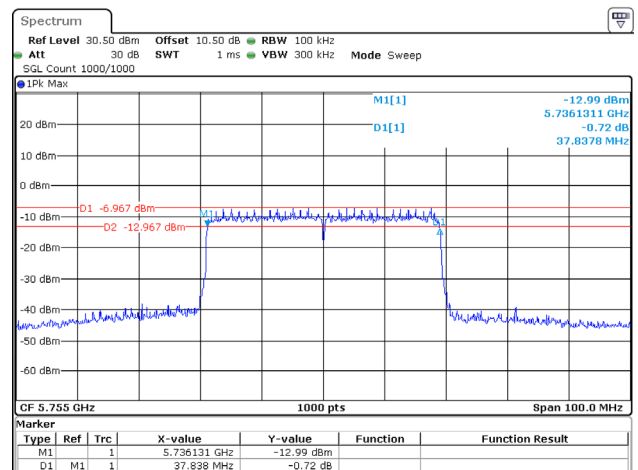
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Date: 21.FEB.2025 11:50:19

802.11ax20_5825MHz_RU_Full



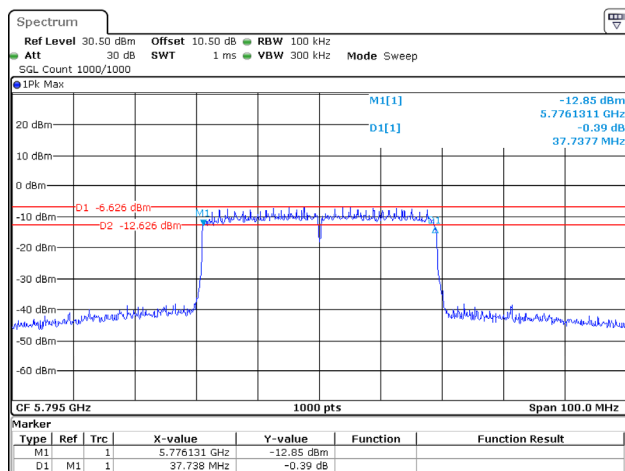
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Date: 21.FEB.2025 11:52:31

802.11ax40_5755MHz_RU_Full



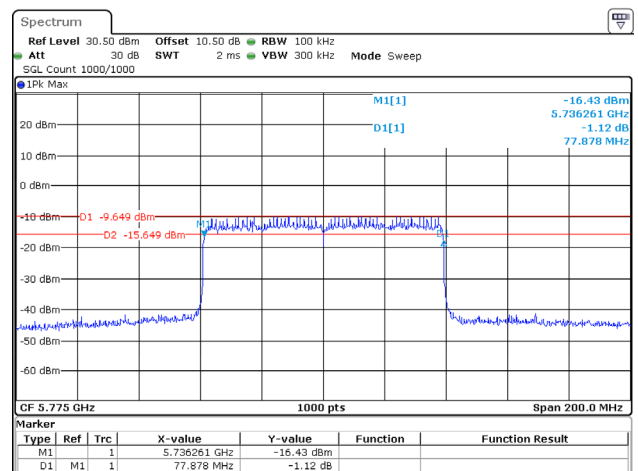
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Date: 21.FEB.2025 11:54:16

802.11ax40_5795MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:55:30

802.11ax80_5775MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:57:10

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.400
	5200	16.350
	5240	16.400
802.11ac20	5180	17.500
	5200	17.550
	5240	17.550
802.11ac40	5190	36.600
	5230	36.500
802.11ac80	5210	76
802.11ax20_RU_Full	5180	19
	5200	18.900
	5240	18.900
802.11ax40_RU_Full	5190	37.700
	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

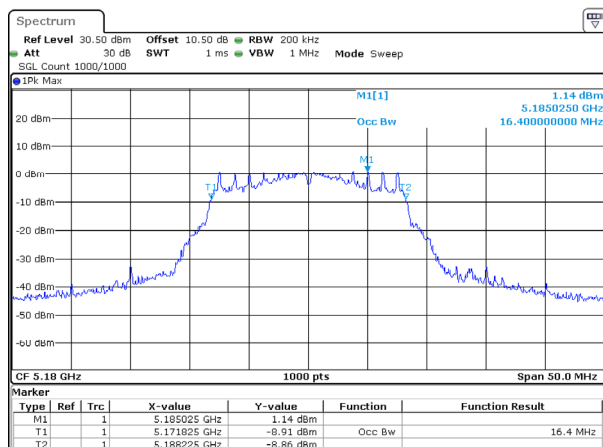
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.400
	5785	16.350
	5825	16.350
802.11ac20	5745	17.550
	5785	17.550
	5825	17.550
802.11ac40	5755	36.600
	5795	36.500
802.11ac80	5775	76.200
802.11ax20_RU_Full	5745	18.950
	5785	18.950
	5825	18.900
802.11ax40_RU_Full	5755	37.700
	5795	37.600
802.11ax80_RU_Full	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.

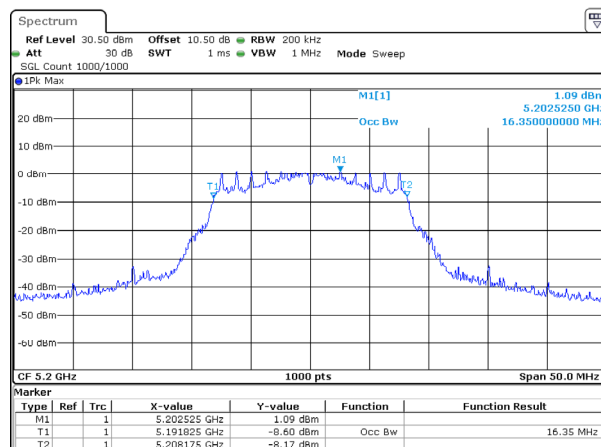
5150-5250MHz

802.11a_5180MHz



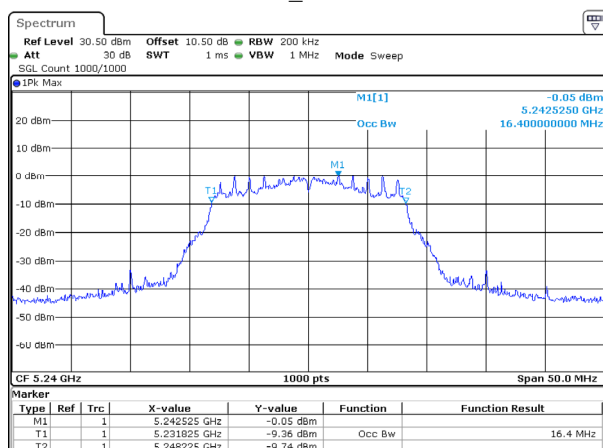
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Date: 21.FEB.2025 10:00:06

802.11a_5200MHz



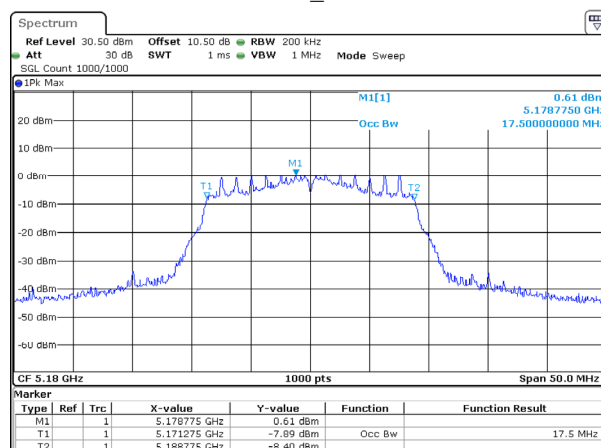
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Date: 21.FEB.2025 10:03:41

802.11a_5240MHz



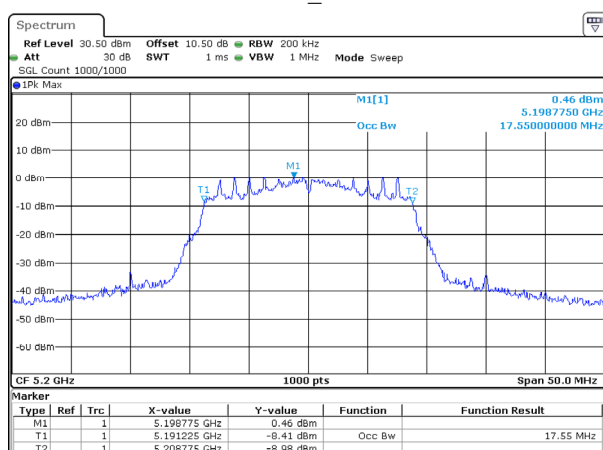
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802.11ac20_5180MHz



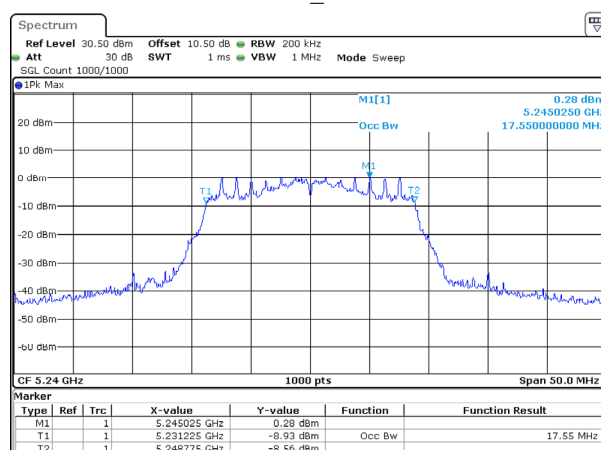
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802.11ac20_5200MHz



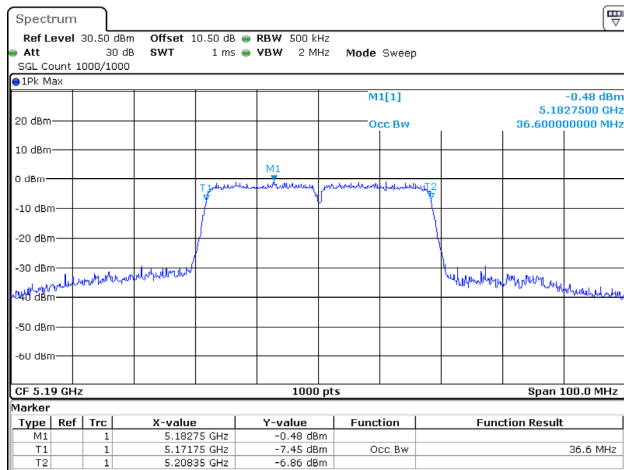
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802.11ac20_5240MHz



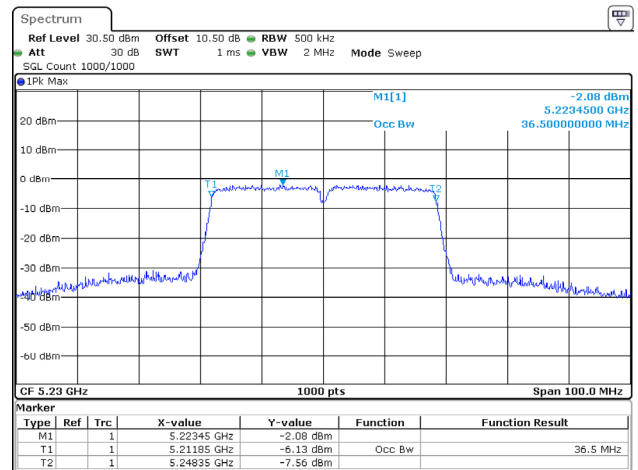
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Date: 21.FEB.2025 10:26:57

802.11ac40_5190MHz



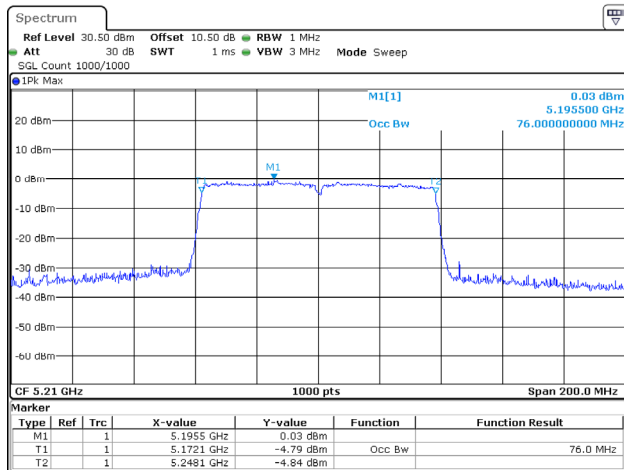
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 10:30:38

802.11ac40_5230MHz



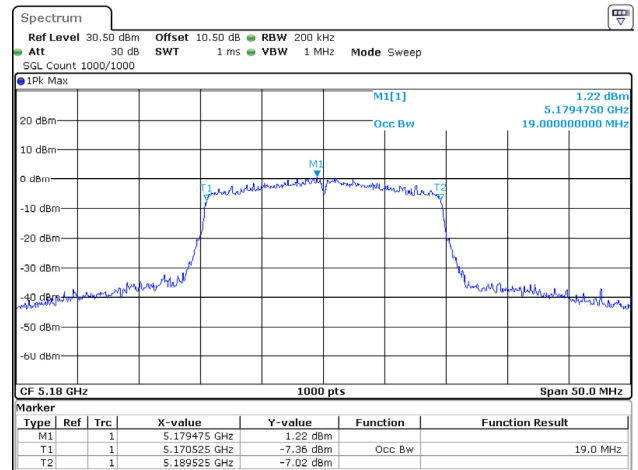
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802.11ac80_5210MHz



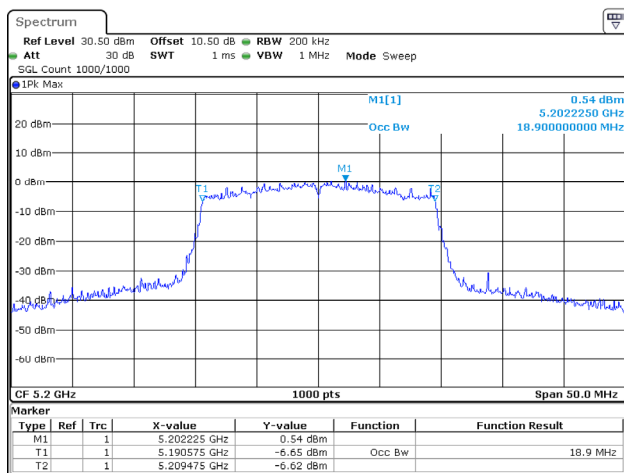
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Date: 21.FEB.2025 10:40:21

802.11ax20_5180MHz_RU_Full



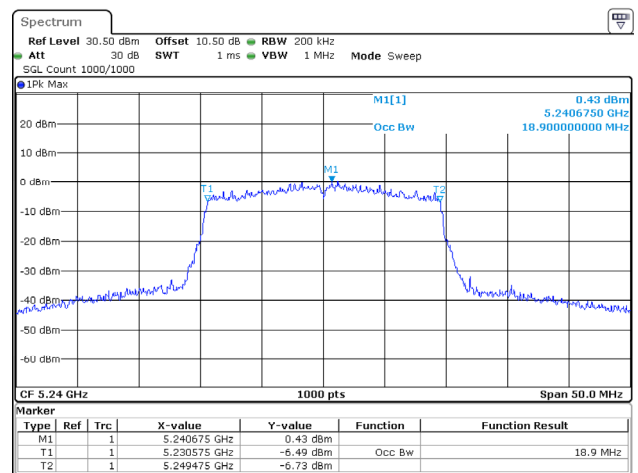
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Date: 21.FEB.2025 10:44:32

802.11ax20_5200MHz_RU_Full



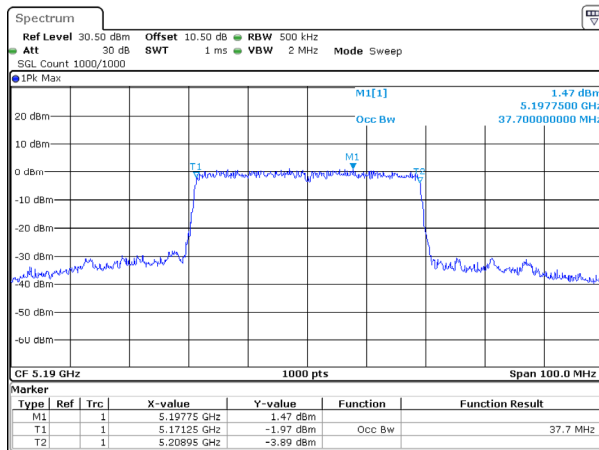
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Date: 21.FEB.2025 10:49:02

802.11ax20_5240MHz_RU_Full

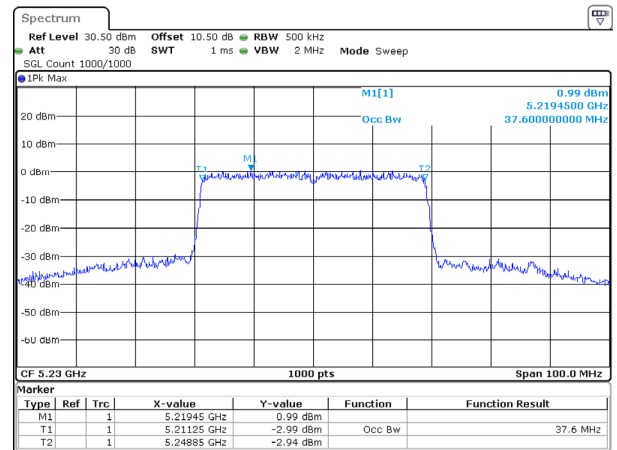


ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:02:13

802.11ax40_5190MHz_RU_Full

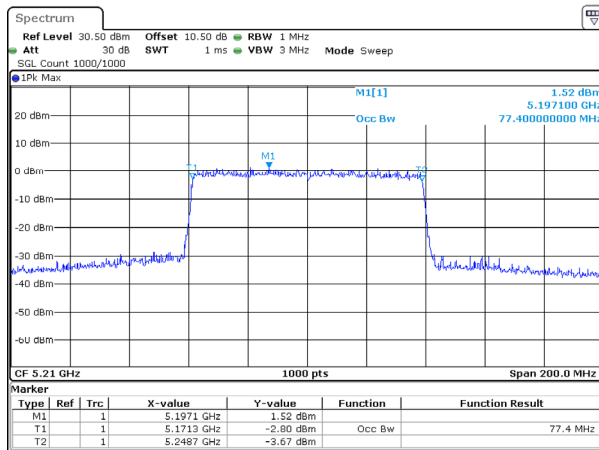


802.11ax40_5230MHz_RU_Full

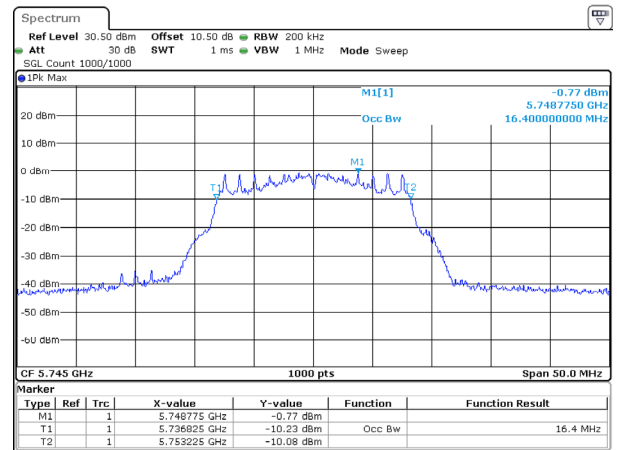


5725-5850MHz

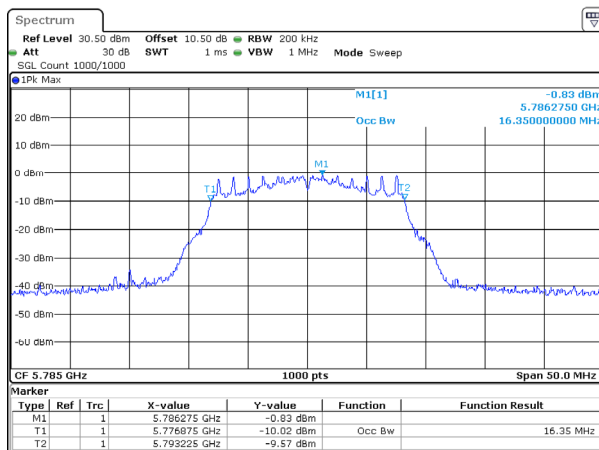
802.11ax80_5210MHz_RU_Full



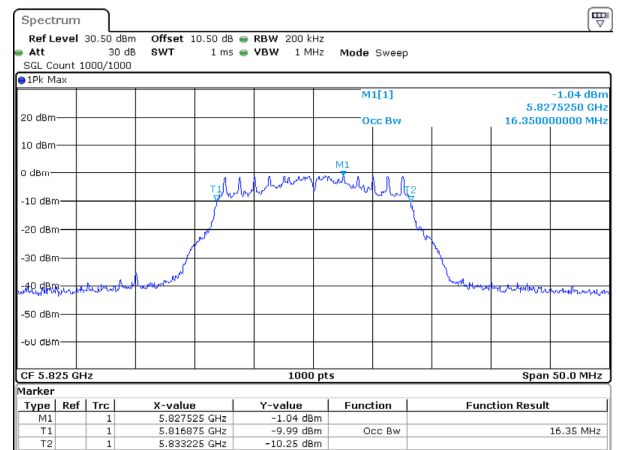
802.11a_5745MHz



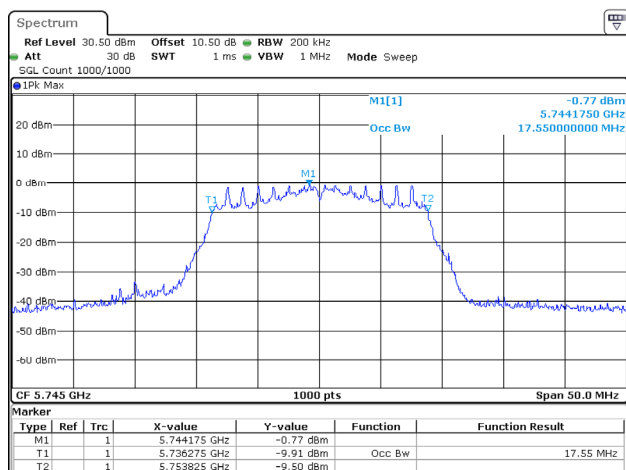
802.11a_5785MHz



802.11a_5825MHz

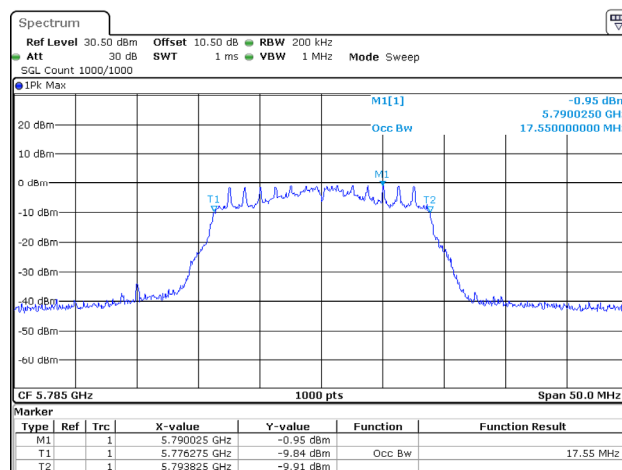


802.11ac20_5745MHz



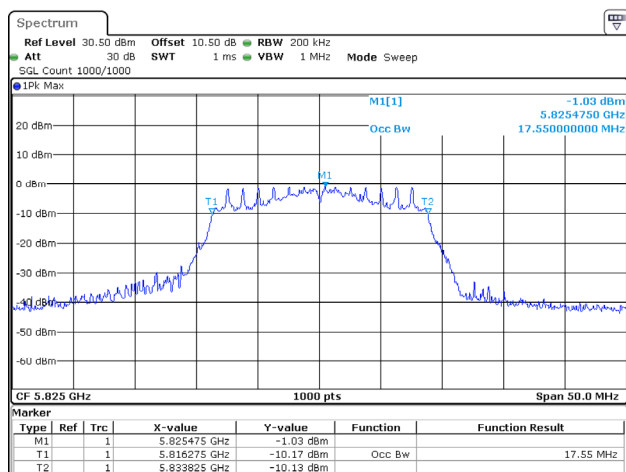
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:28:12

802.11ac20_5785MHz



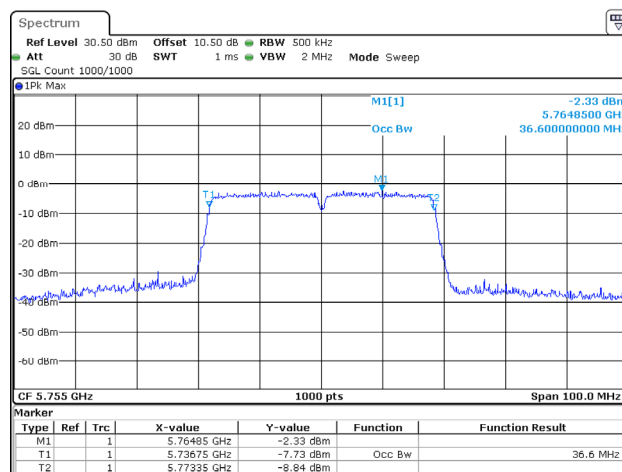
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:31:16

802.11ac20_5825MHz



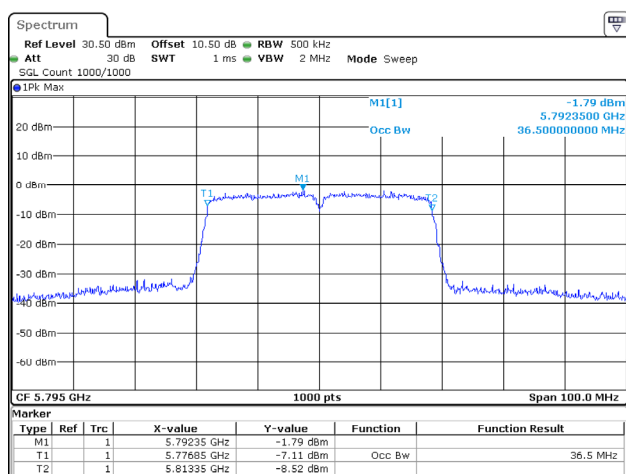
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Date: 21.FEB.2025 11:33:09

802.11ac40_5755MHz



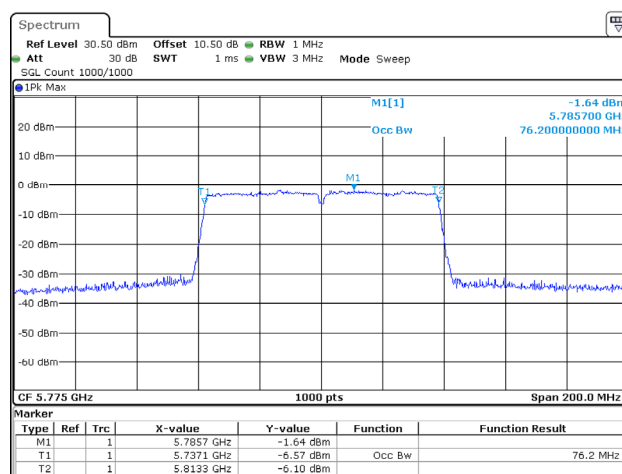
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Date: 21.FEB.2025 11:43:26

802.11ac40_5795MHz



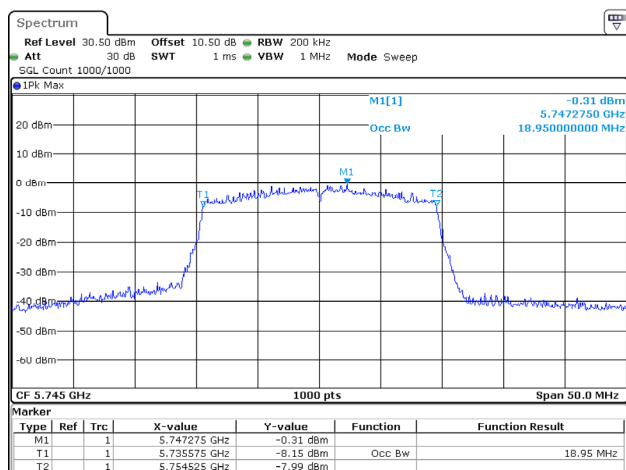
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:44:40

802.11ac80_5775MHz



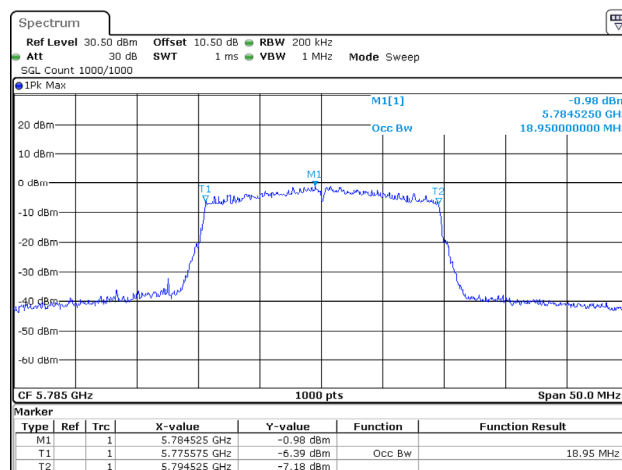
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:46:14

802.11ax20_5745MHz_RU_Full



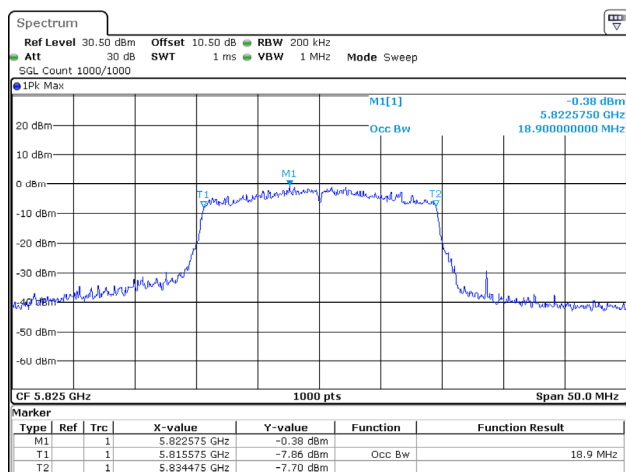
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Date: 21.FEB.2025 11:48:42

802.11ax20_5785MHz_RU_Full



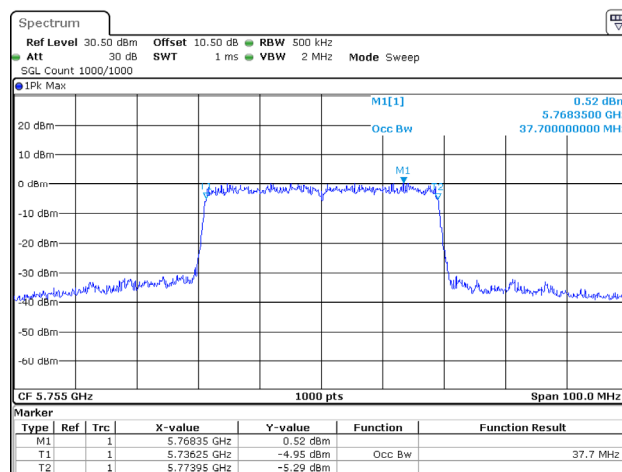
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Date: 21.FEB.2025 11:51:16

802.11ax20_5825MHz_RU_Full



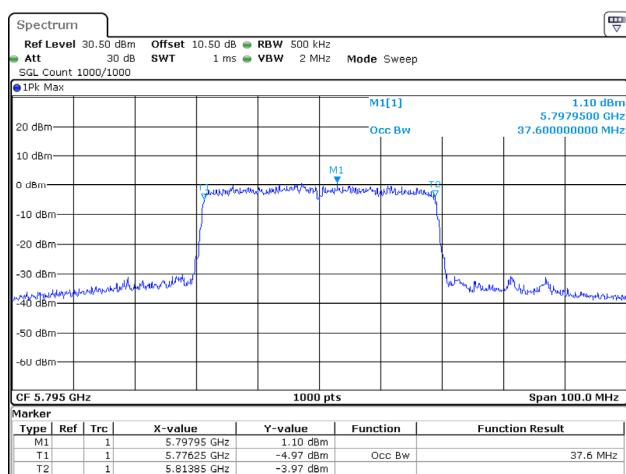
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Date: 21.FEB.2025 11:53:11

802.11ax40_5755MHz_RU_Full



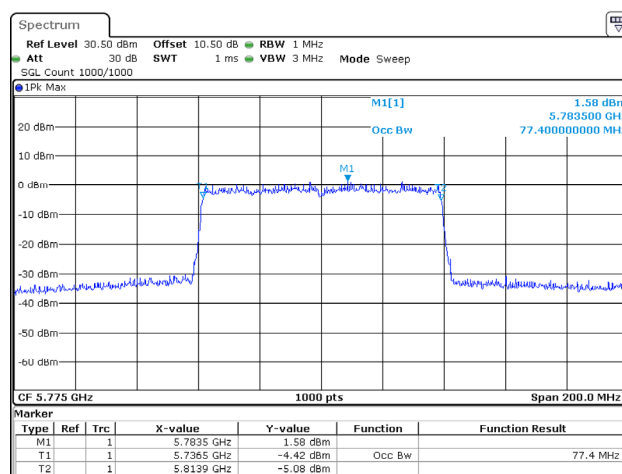
ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:54:35

802.11ax40_5795MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:55:49

802.11ax80_5775MHz_RU_Full



ProjectNo.:2501P27167E-RF-2-ANT1 Tester:Rainbow Zhu
Date: 21.FEB.2025 11:57:37

Maximum Conducted Output Power

5150-5250MHz

FCC

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	8.34	30	Pass
	5200	8.27	30	Pass
	5240	7.72	30	Pass
802.11ac20	5180	8.38	30	Pass
	5200	8.01	30	Pass
	5240	7.81	30	Pass
802.11ac40	5190	8.38	30	Pass
	5230	7.84	30	Pass
802.11ac80	5210	8.27	30	Pass
802.11ax20_RU_Full	5180	8.62	30	Pass
	5200	8.38	30	Pass
	5240	8.13	30	Pass
802.11ax40_RU_Full	5190	8.70	30	Pass
	5230	8.06	30	Pass
802.11ax80_RU_Full	5210	8.38	30	Pass

IC

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	5180	8.34	4.95	13.29	22.15	Pass
	5200	8.27	4.95	13.22	22.14	Pass
	5240	7.72	4.95	12.67	22.15	Pass
802.11ac20	5180	8.38	4.95	13.33	22.43	Pass
	5200	8.01	4.95	12.96	22.44	Pass
	5240	7.81	4.95	12.76	22.44	Pass
802.11ac40	5190	8.38	4.95	13.33	23.01	Pass
	5230	7.84	4.95	12.79	23.01	Pass
802.11ac80	5210	8.27	4.95	13.22	23.01	Pass
802.11ax20_RU_Full	5180	8.62	4.95	13.57	22.79	Pass
	5200	8.38	4.95	13.33	22.76	Pass
	5240	8.13	4.95	13.08	22.76	Pass
802.11ax40_RU_Full	5190	8.70	4.95	13.65	23.01	Pass
	5230	8.06	4.95	13.01	23.01	Pass
802.11ax80_RU_Full	5210	8.38	4.95	13.33	23.01	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	7.51	30	Pass
	5785	7.47	30	Pass
	5825	7.43	30	Pass
802.11ac20	5745	7.35	30	Pass
	5785	7.27	30	Pass
	5825	7.21	30	Pass
802.11ac40	5755	7.34	30	Pass
	5795	7.29	30	Pass
802.11ac80	5775	7.41	30	Pass
802.11ax20_RU_Full	5745	7.63	30	Pass
	5785	7.47	30	Pass
	5825	7.42	30	Pass
802.11ax40_RU_Full	5755	7.66	30	Pass
	5795	7.64	30	Pass
802.11ax80_RU_Full	5775	7.82	30	Pass

Note: EIRP = Average Output Power + Antenna gain