

Appendix F- 5GWi-Fi for Module YL43456

Test Information:

Sample No.:	2Y0T-2	Test Date:	2025/02/17~2025/04/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rainbow Zhu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.4~25.4	Relative Humidity: (%)	45~55	ATM Pressure: (kPa)	100.3~101.3
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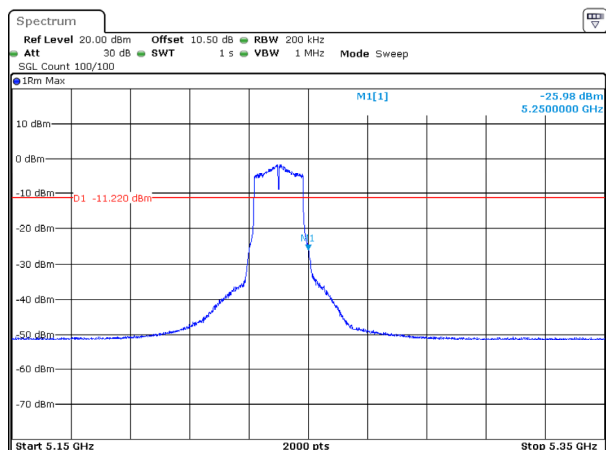
26dB attenuated below the channel power

5150-5250MHz

Mode	Test Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
802.11a	5240	-25.98	-11.22	Pass
802.11ac20	5240	-26.51	-13.22	Pass
802.11ac40	5230	-36.54	-15.21	Pass
802.11ac80	5210	-36.99	-18.06	Pass

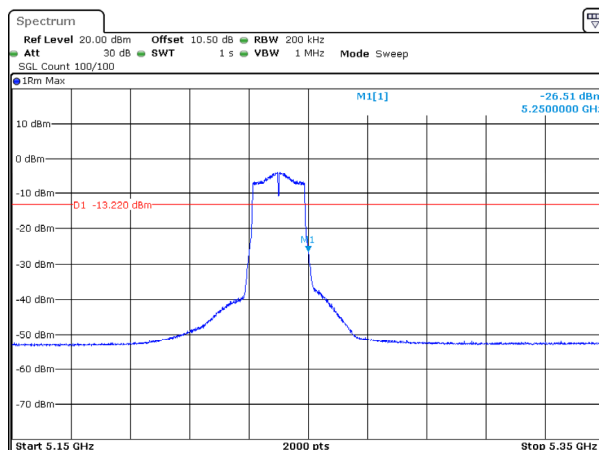
5150-5250MHz

802.11a_5240MHz



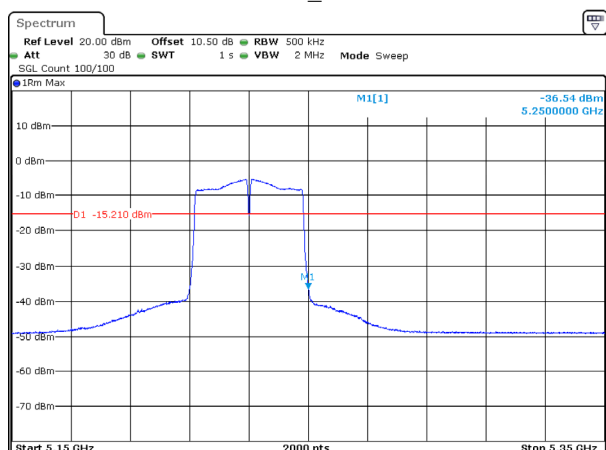
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 17:24:41

802.11ac20_5240MHz



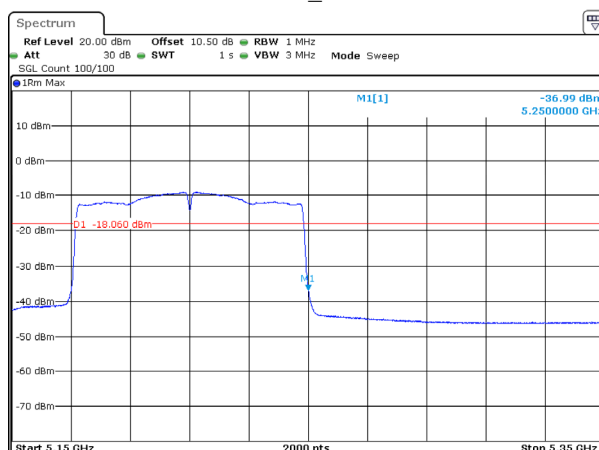
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:16:33

802.11ac40_5230MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:20:00

802.11ac80_5210MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:03:57

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	21.351
	5200	21.563
	5240	21.446
802.11ac20	5180	21.939
	5200	22.618
	5240	22.507
802.11ac40	5190	40.240
	5230	40.040
802.11ac80	5210	82.082

5250-5350MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5260	21.348
	5280	21.396
	5320	21.983
802.11ac20	5260	22.438
	5280	22.257
	5320	23.974
802.11ac40	5270	40.140
	5310	40.440
802.11ac80	5290	82.082

5470-5725MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5500	21.669
	5580	21.452
	5700	21.331
802.11ac20	5500	21.914
	5580	21.869
	5700	21.594
802.11ac40	5510	40.340
	5550	40.340
	5670	40.140
802.11ac80	5530	82.082

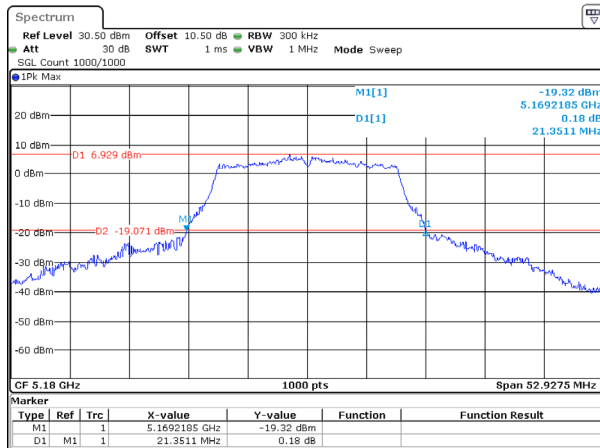
6dB Emission Bandwidth

5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.416	0.5	Pass
	5785	16.416	0.5	Pass
	5825	16.416	0.5	Pass
802.11ac20	5745	17.367	0.5	Pass
	5785	17.417	0.5	Pass
	5825	17.618	0.5	Pass
802.11ac40	5755	36.236	0.5	Pass
	5795	36.036	0.5	Pass
802.11ac80	5775	75.676	0.5	Pass

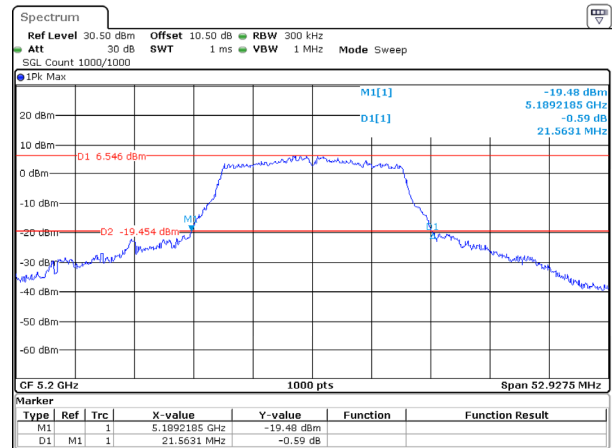
5150-5250MHz

802.11a_5180MHz



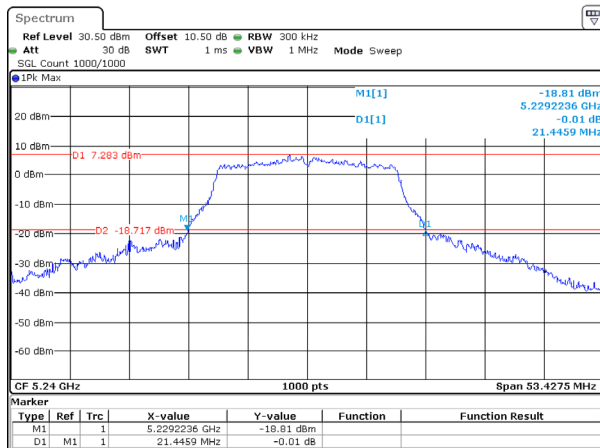
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Date: 20.FEB.2025 11:03:59

802.11a_5200MHz



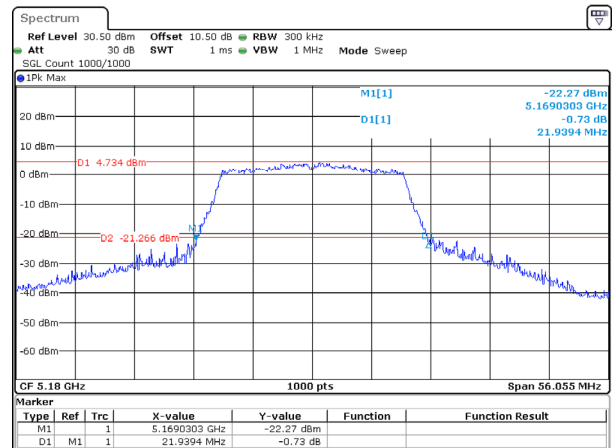
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Date: 20.FEB.2025 11:04:56

802.11a_5240MHz



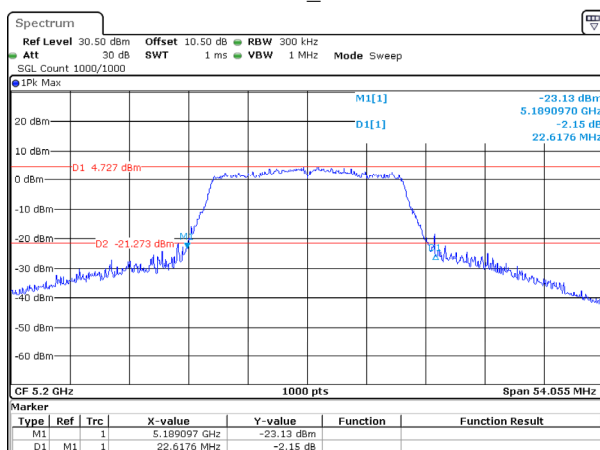
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802.11ac20_5180MHz



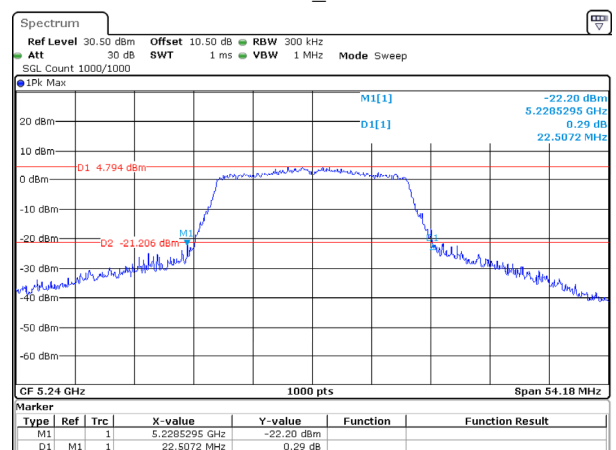
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802.11ac20_5200MHz



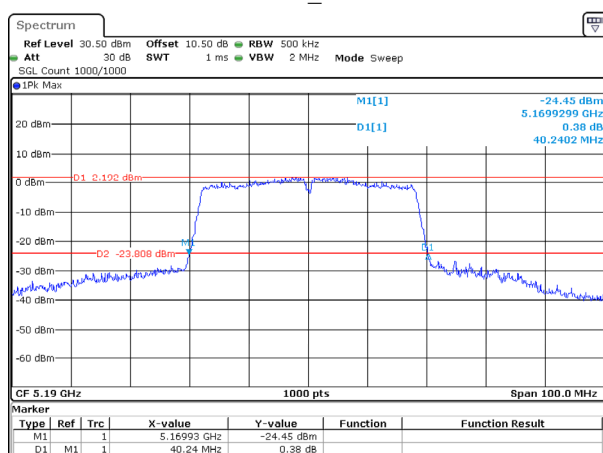
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802.11ac20_5240MHz



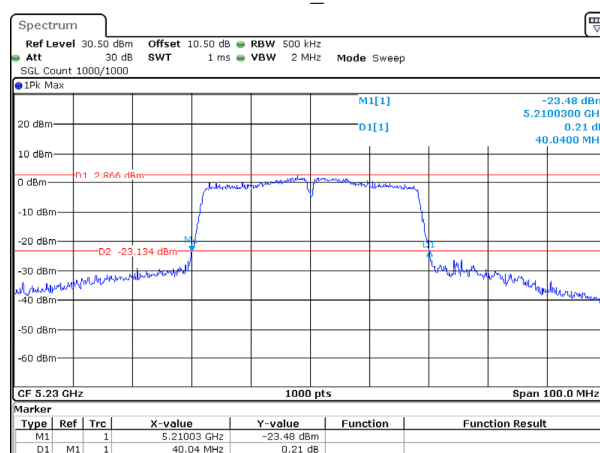
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:13:37

802.11ac40_5190MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:25:23

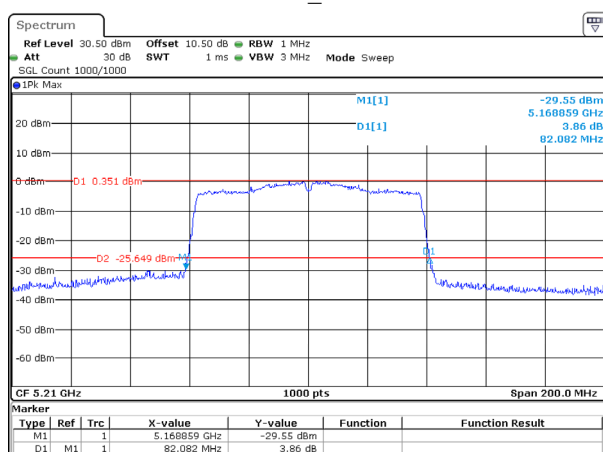
802.11ac40_5230MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:17:23

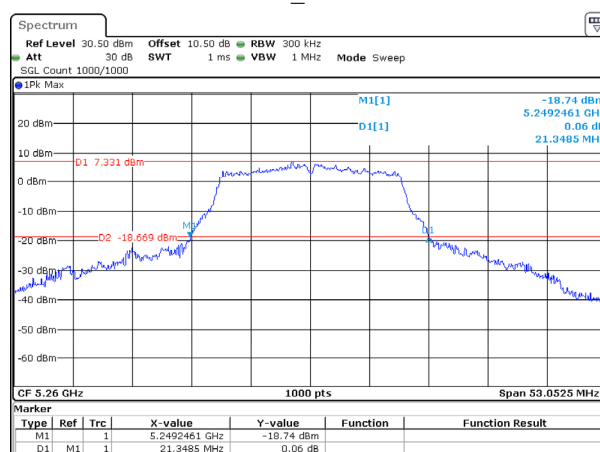
5250-5350MHz

802.11ac80_5210MHz



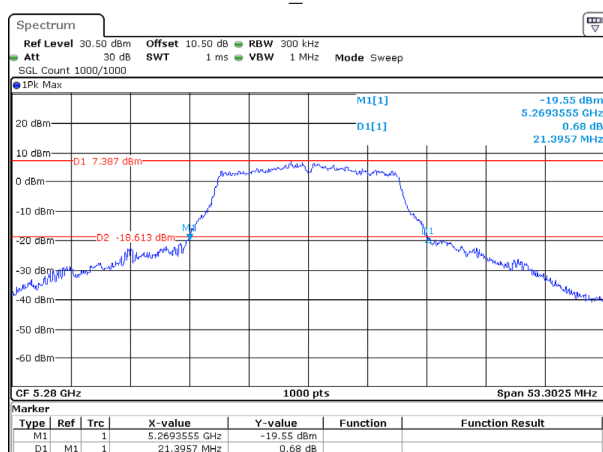
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Date: 23.APR.2025 10:01:15

802.11a_5260MHz



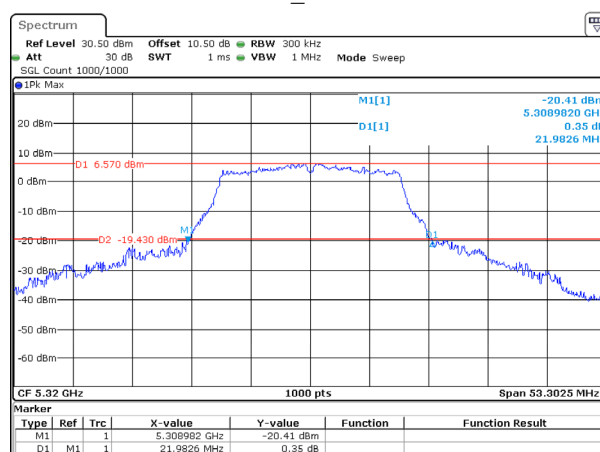
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 11:31:43

802.11a_5280MHz



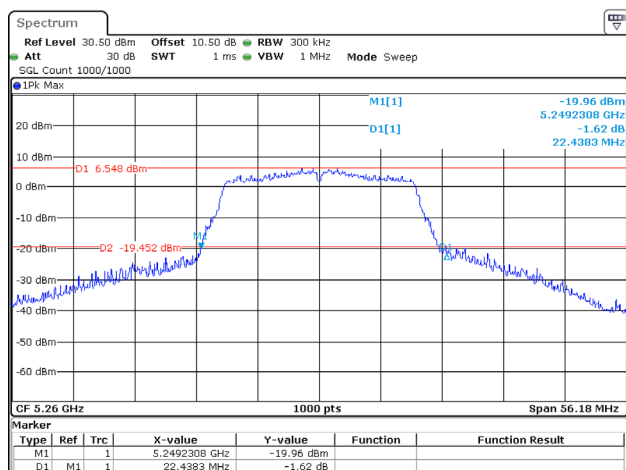
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802.11a_5320MHz



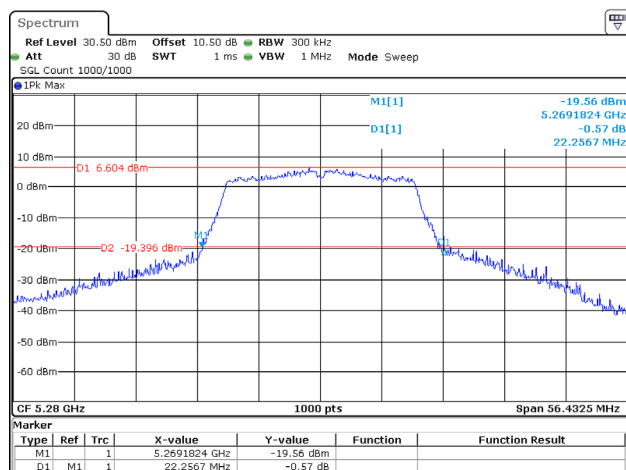
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802.11ac20_5260MHz



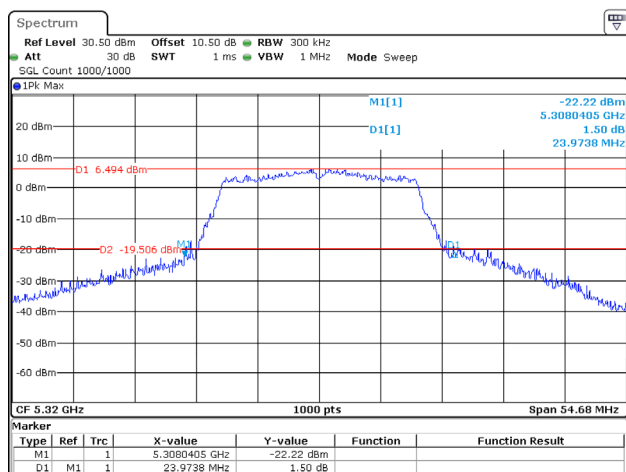
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Date: 20.FEB.2025 11:38:24

802.11ac20_5280MHz



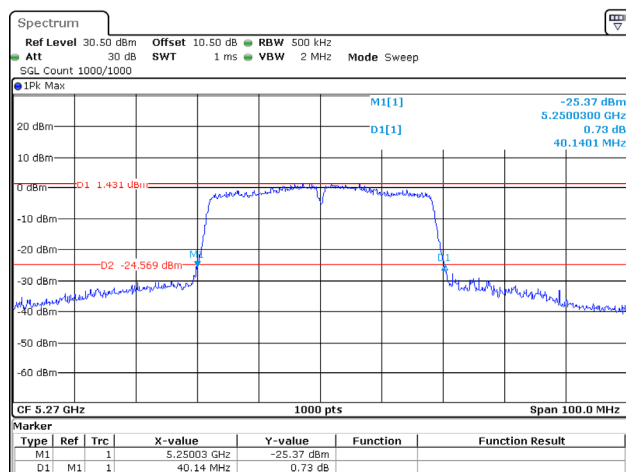
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802.11ac20_5320MHz



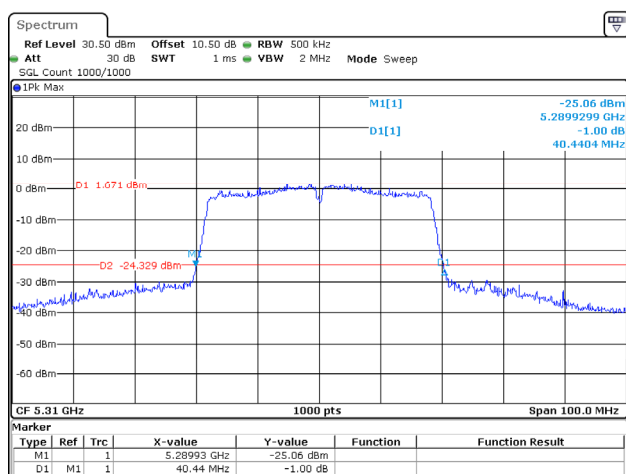
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Date: 20.FEB.2025 11:43:20

802.11ac40_5270MHz



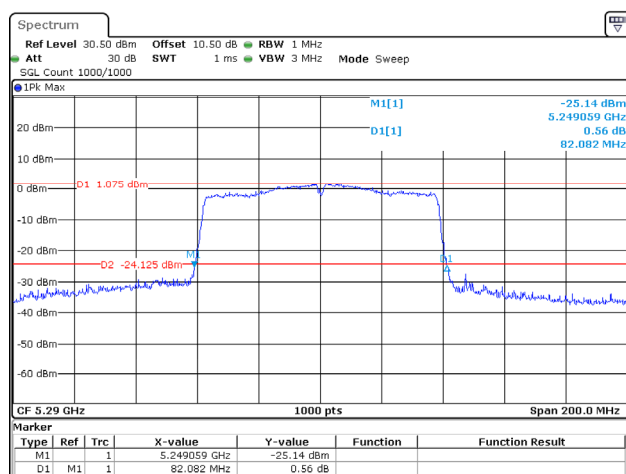
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Date: 23.APR.2025 10:41:54

802.11ac40_5310MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:43:23

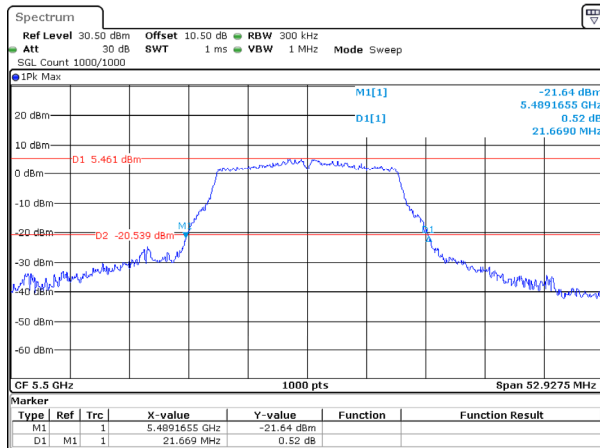
802.11ac80_5290MHz



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Date: 23.APR.2025 10:44:46

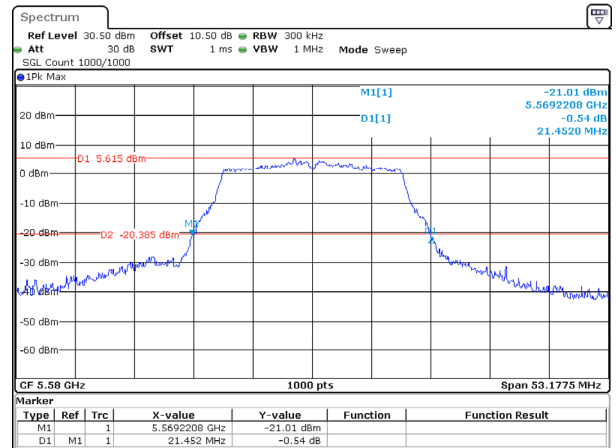
5470-5725MHz

802.11a_5500MHz



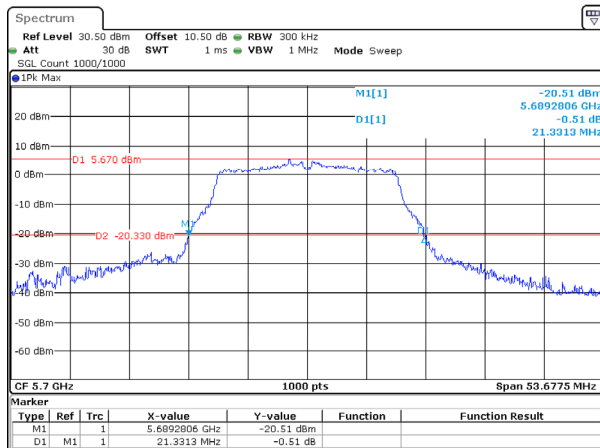
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:49:12

802.11a_5580MHz



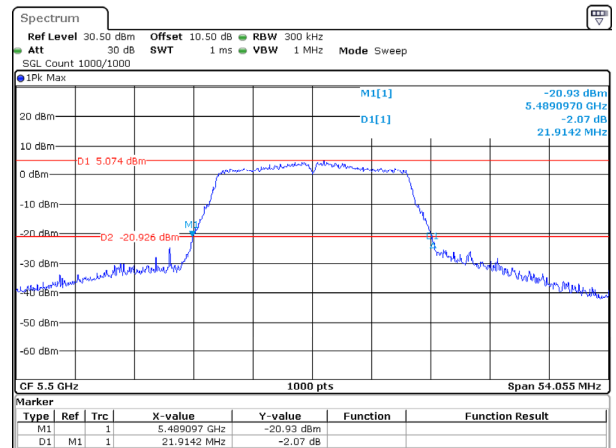
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802.11a_5700MHz



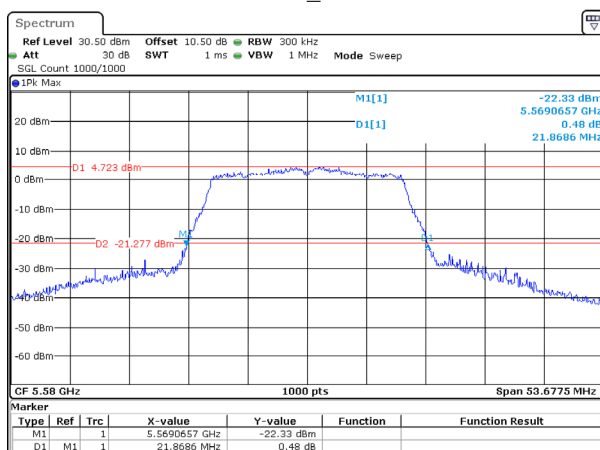
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Date: 23.APR.2025 10:53:47

802.11ac20_5500MHz



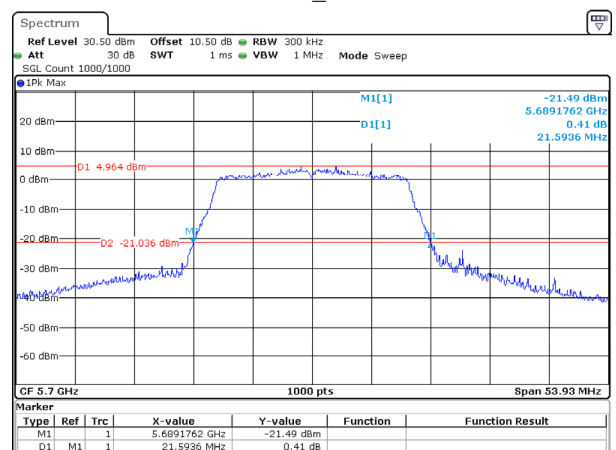
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Date: 23.APR.2025 10:58:14

802.11ac20_5580MHz



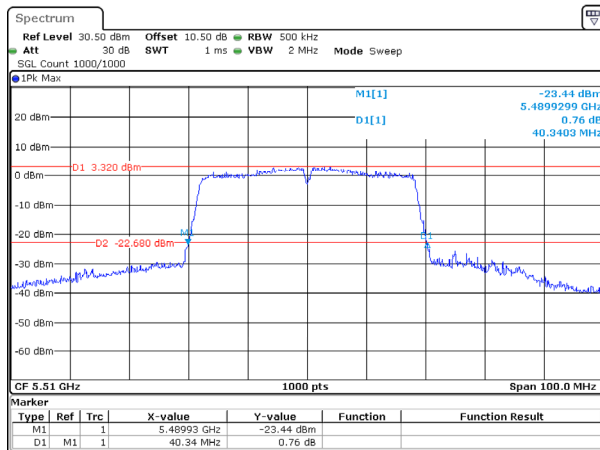
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Date: 23.APR.2025 11:02:11

802.11ac20_5700MHz



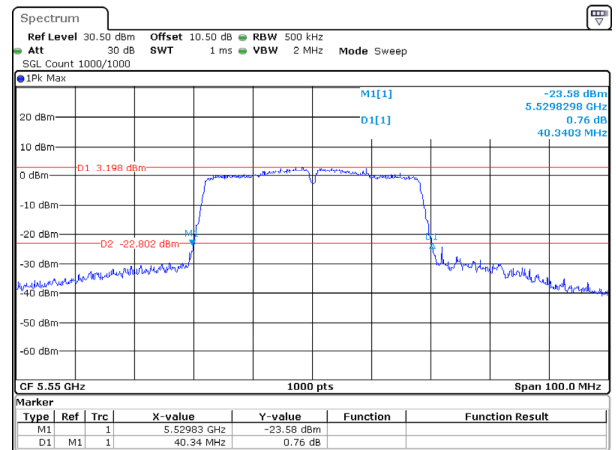
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Date: 23.APR.2025 11:04:33

802.11ac40_5510MHz



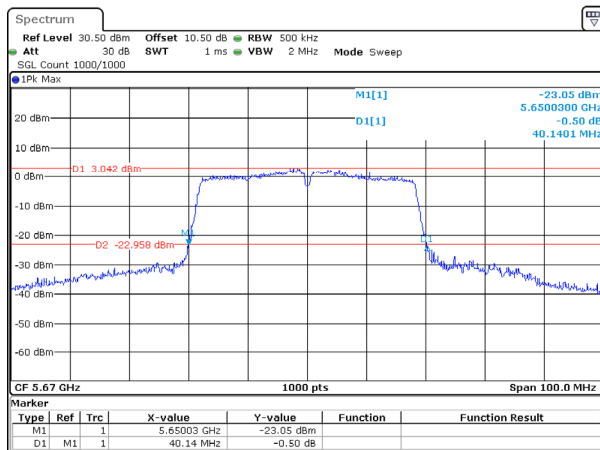
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Date: 23.APR.2025 11:06:43

802.11ac40_5550MHz



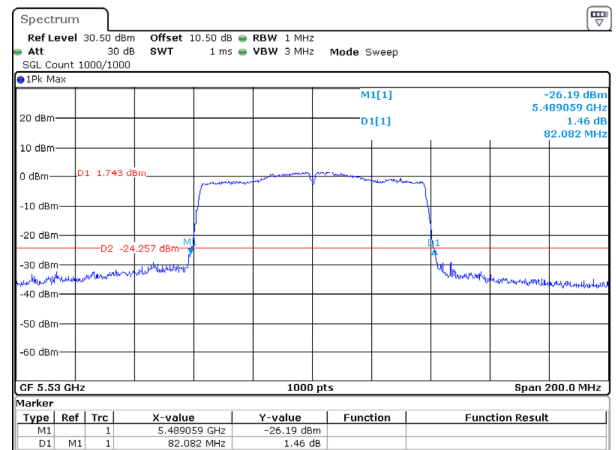
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Date: 23.APR.2025 11:08:06

802.11ac40_5670MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 11:16:07

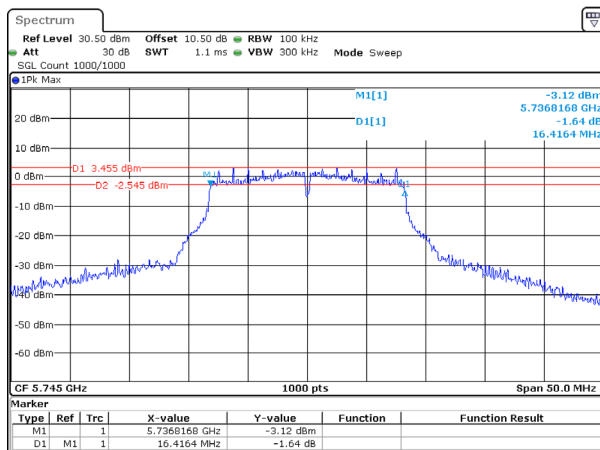
802.11ac80_5530MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 11:27:46

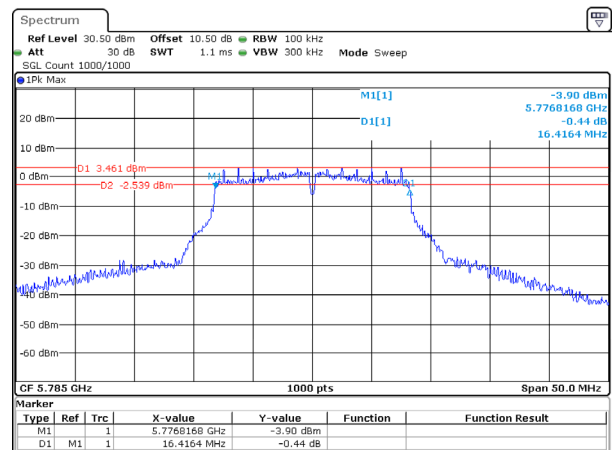
5725-5850MHz

802.11a_5745MHz



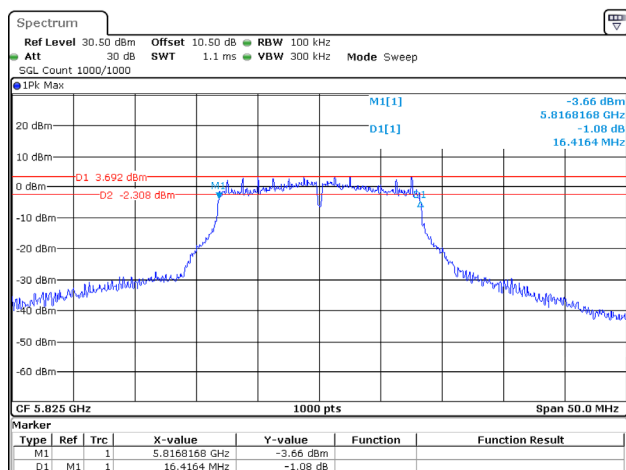
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Date: 20.FEB.2025 13:49:18

802.11a_5785MHz



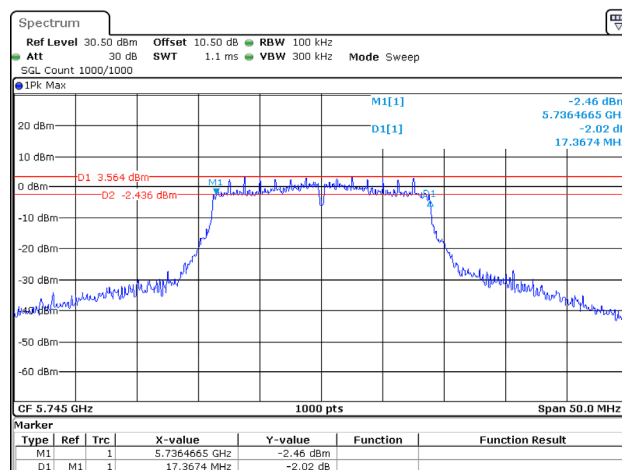
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Date: 20.FEB.2025 13:51:26

802.11a_5825MHz



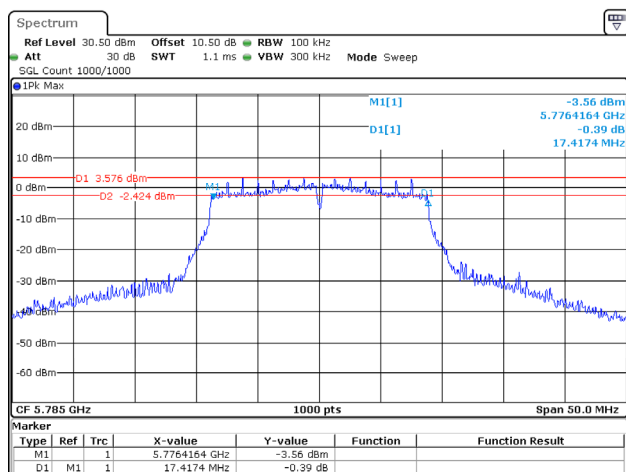
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Date: 20.FEB.2025 13:54:15

802.11ac20_5745MHz



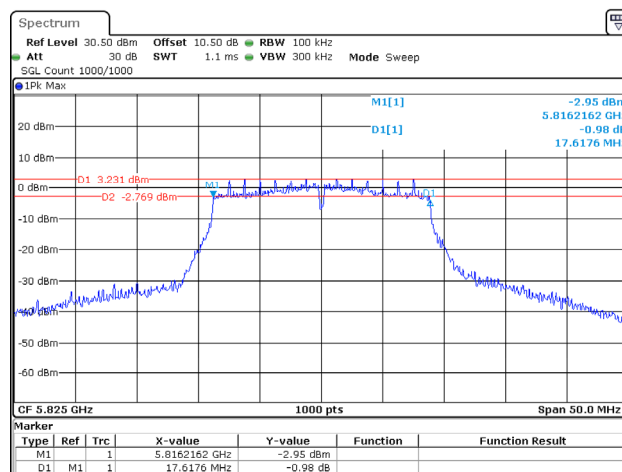
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Date: 20.FEB.2025 13:57:10

802.11ac20_5785MHz



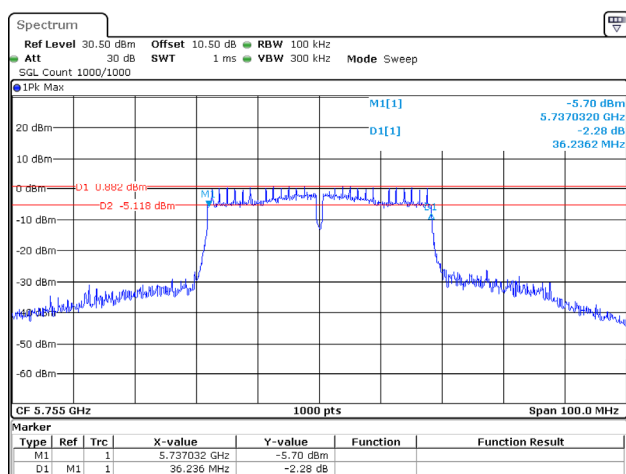
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Date: 20.FEB.2025 13:59:45

802.11ac20_5825MHz



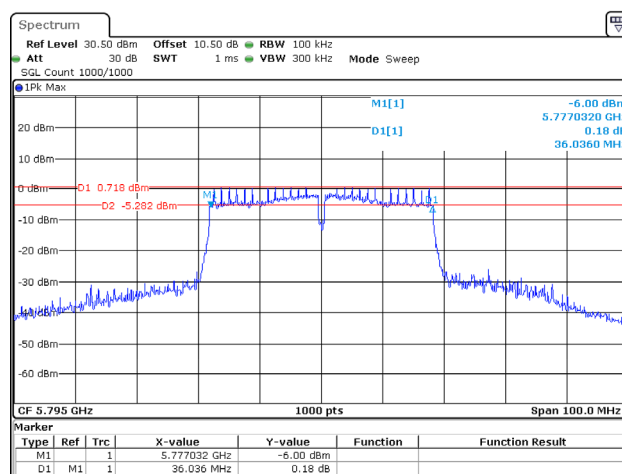
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Date: 20.FEB.2025 14:02:16

802.11ac40_5755MHz



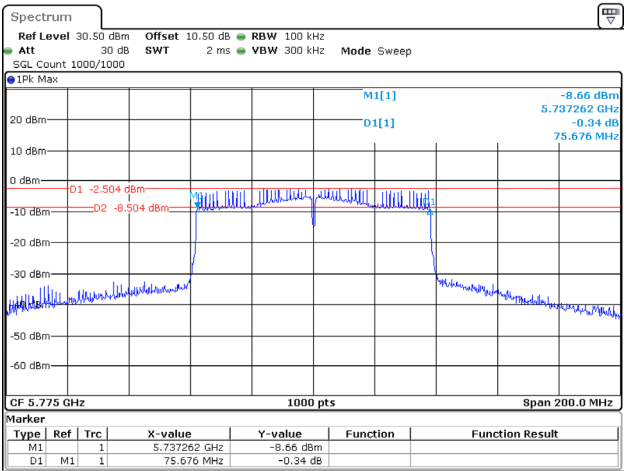
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Date: 20.FEB.2025 14:05:17

802.11ac40_5795MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 14:06:26

802.11ac80_5775MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 14:07:45

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.750
	5200	16.750
	5240	16.750
802.11ac20	5180	17.850
	5200	17.850
	5240	17.850
802.11ac40	5190	36.500
	5230	36.400
802.11ac80	5210	75.600

Note:

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

5250-5350MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5260	16.750
	5280	16.750
	5320	16.700
802.11ac20	5260	17.900
	5280	17.900
	5320	17.900
802.11ac40	5270	36.400
	5310	36.400
802.11ac80	5290	75.600

5470-5725MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5500	16.650
	5580	16.650
	5700	16.650
802.11ac20	5500	17.800
	5580	17.850
	5700	17.850
802.11ac40	5510	36.400
	5550	36.400
	5670	36.400
802.11ac80	5530	75.600

5725-5850MHz

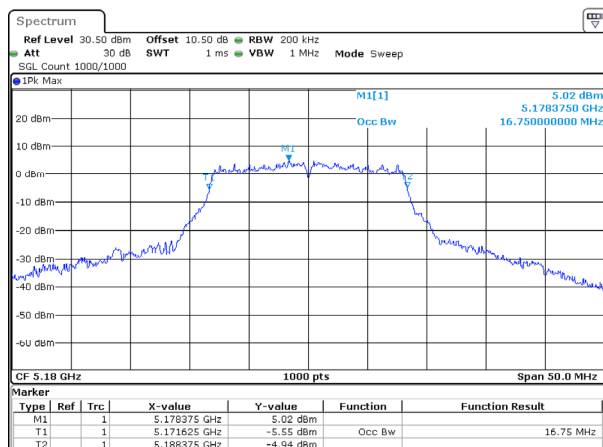
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.750
	5785	16.750
	5825	16.700
802.11ac20	5745	17.850
	5785	17.850
	5825	17.900
802.11ac40	5755	36.500
	5795	36.500
802.11ac80	5775	75.800

Note:

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

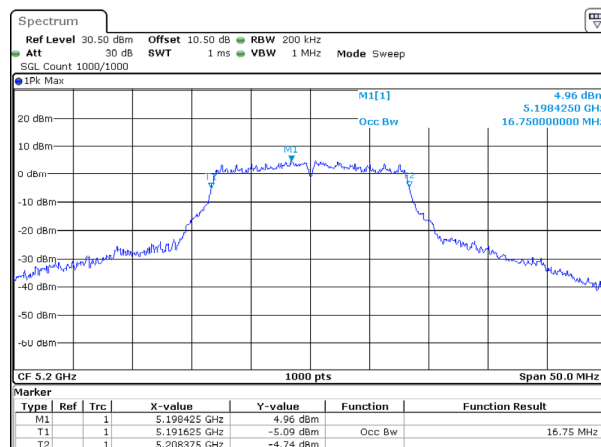
5150-5250MHz

802.11a_5180MHz



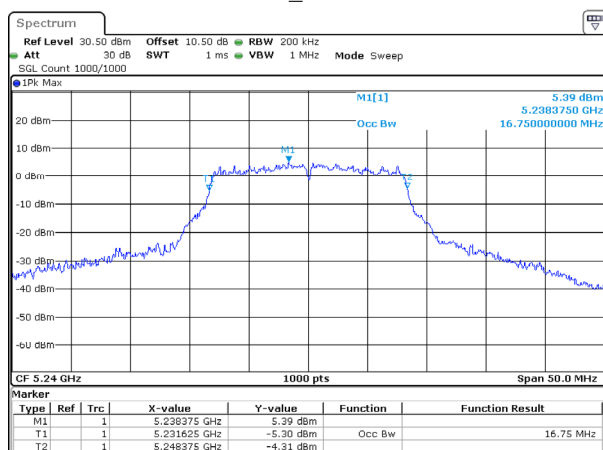
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 17.FEB.2025 17:16:26

802.11a_5200MHz



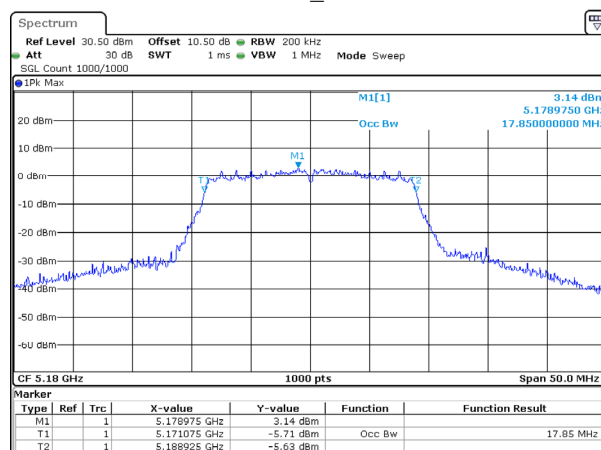
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Date: 17.FEB.2025 17:19:26

802.11a_5240MHz



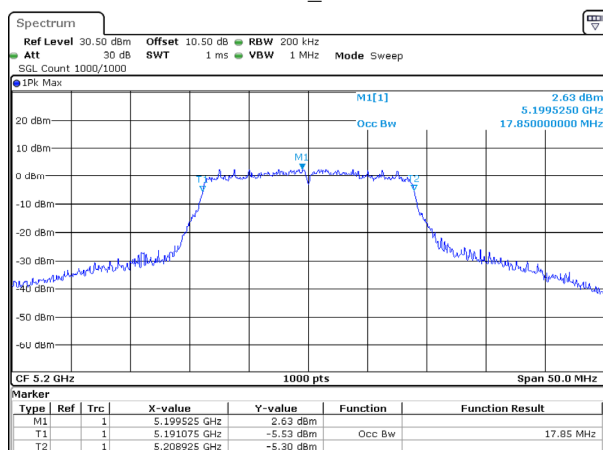
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802.11ac20_5180MHz



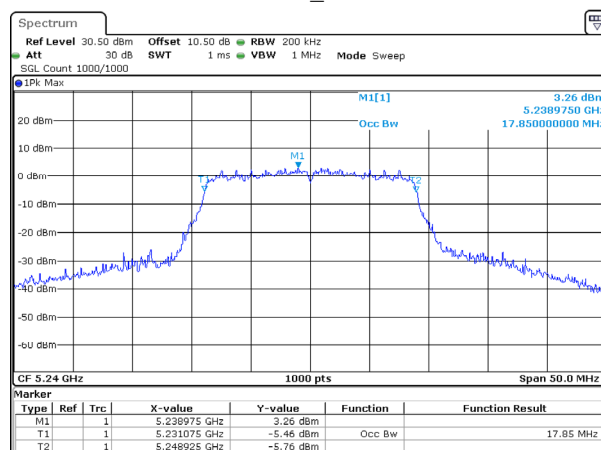
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802.11ac20_5200MHz



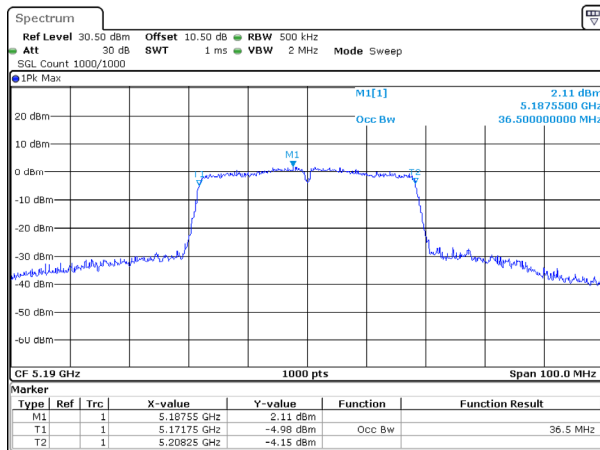
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Date: 23.APR.2025 10:24:21

802.11ac20_5240MHz



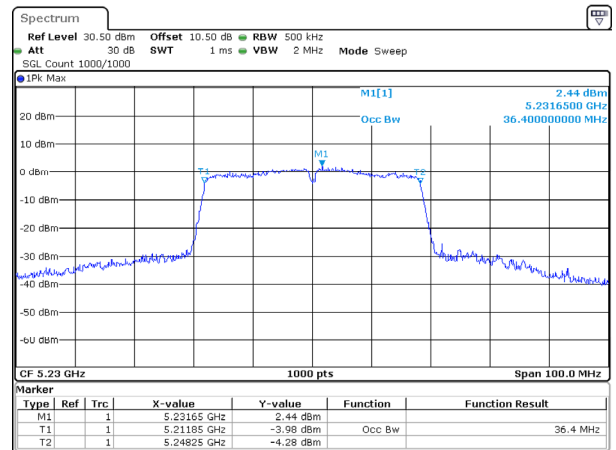
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:14:17

802.11ac40_5190MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:25:46

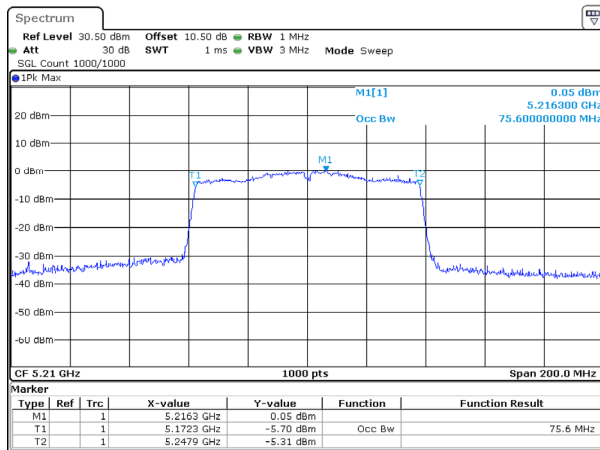
802.11ac40_5230MHz



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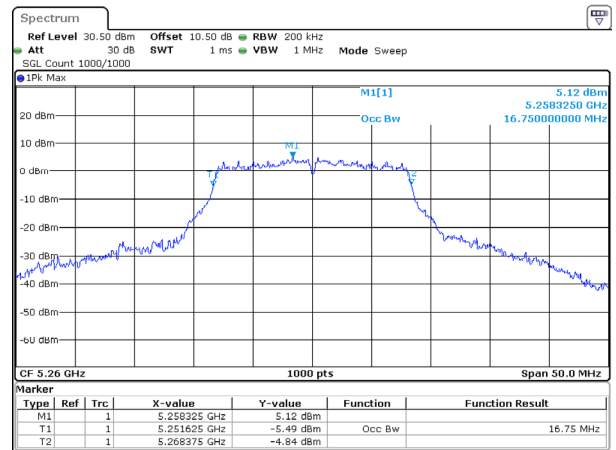
5250-5350MHz

802.11ac80_5210MHz



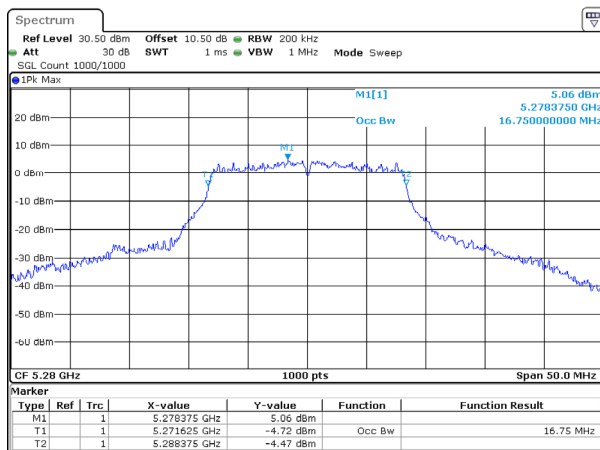
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:01:40

802.11a_5260MHz



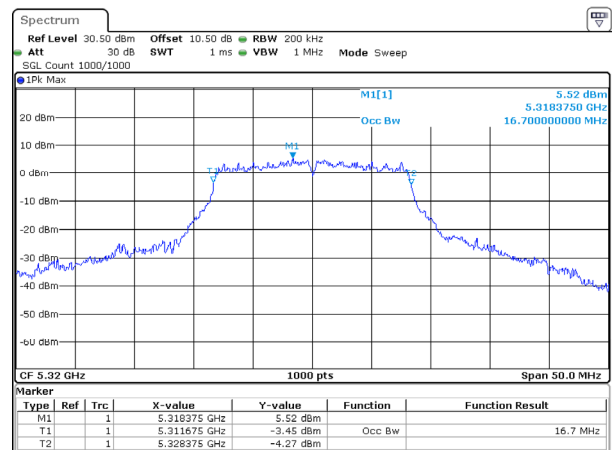
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Date: 20.FEB.2025 11:32:24

802.11a_5280MHz



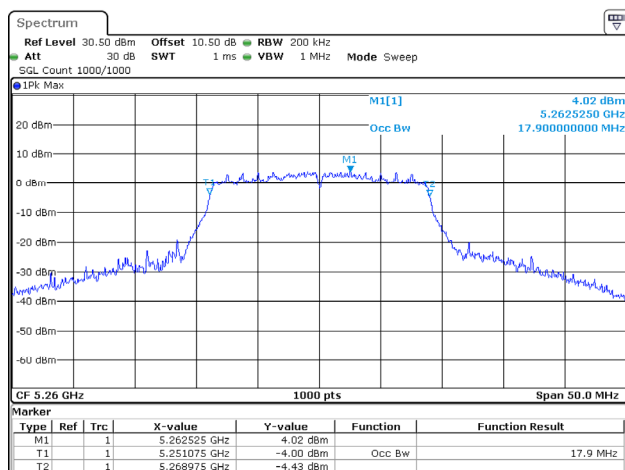
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Date: 20.FEB.2025 11:34:36

802.11a_5320MHz



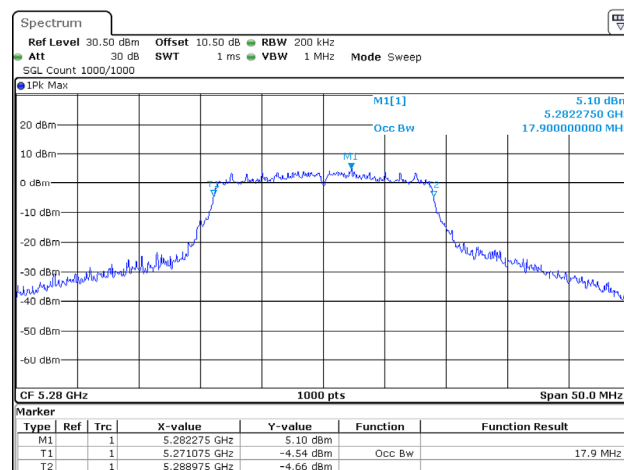
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Date: 20.FEB.2025 11:36:54

802.11ac20_5260MHz



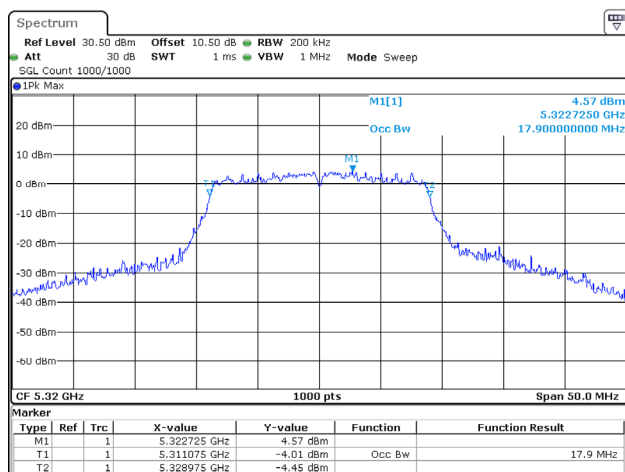
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Date: 20.FEB.2025 11:39:04

802.11ac20_5280MHz



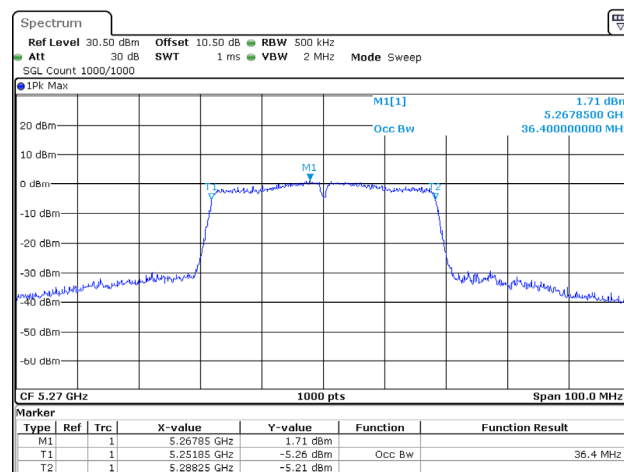
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 11:41:51

802.11ac20_5320MHz



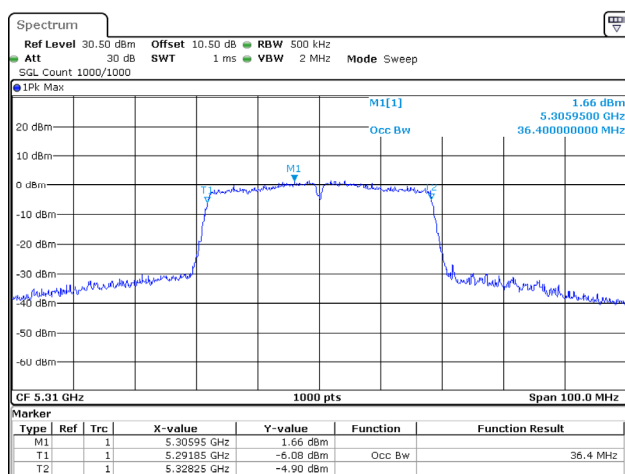
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Date: 20.FEB.2025 11:44:02

802.11ac40_5270MHz



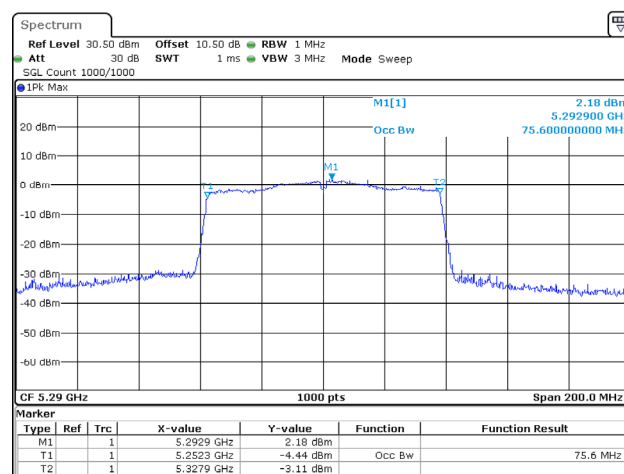
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:42:17

802.11ac40_5310MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:43:46

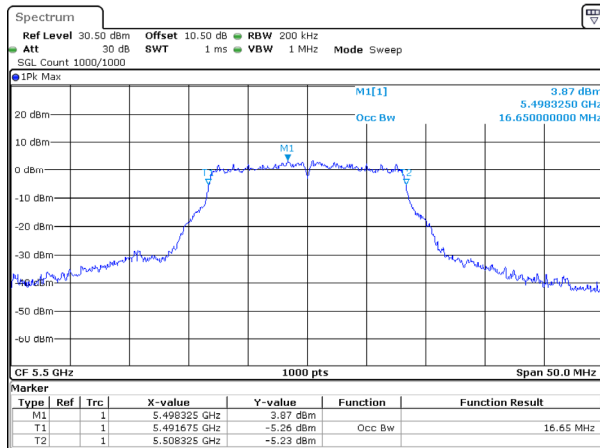
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ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 10:45:13

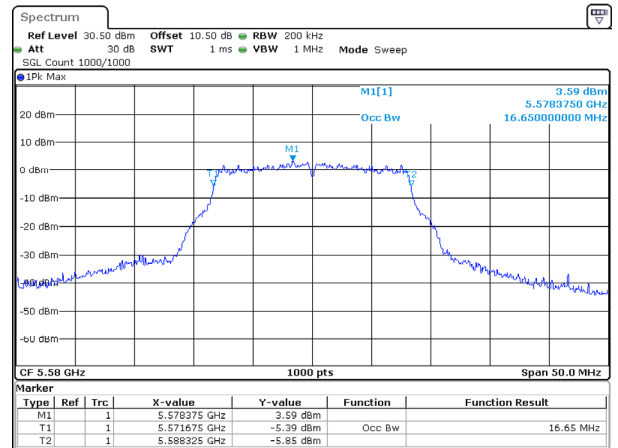
5470-5725MHz

802.11a_5500MHz



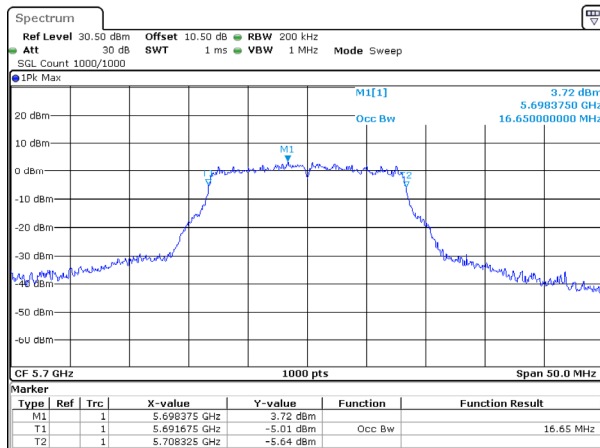
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802.11a_5580MHz



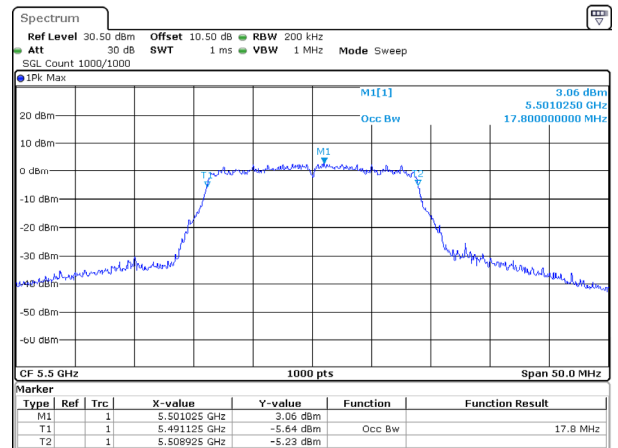
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Date: 23.APR.2025 10:52:18

802.11a_5700MHz



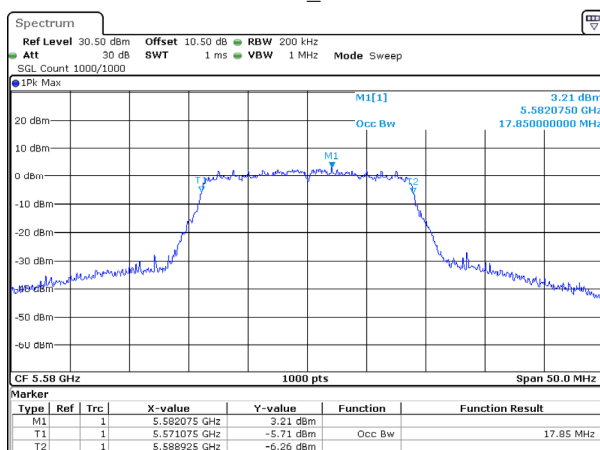
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802.11ac20_5500MHz



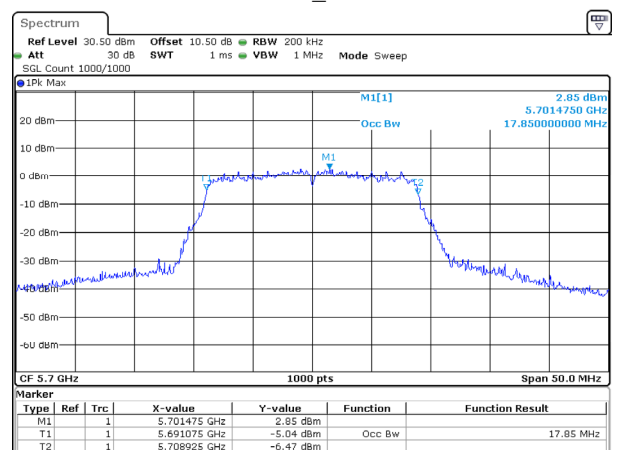
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802.11ac20_5580MHz



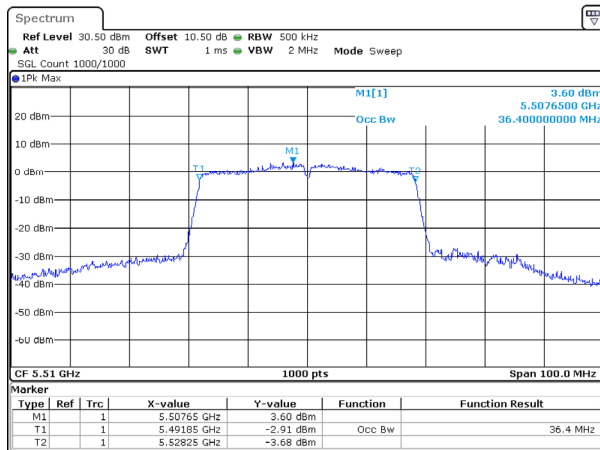
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802.11ac20_5700MHz



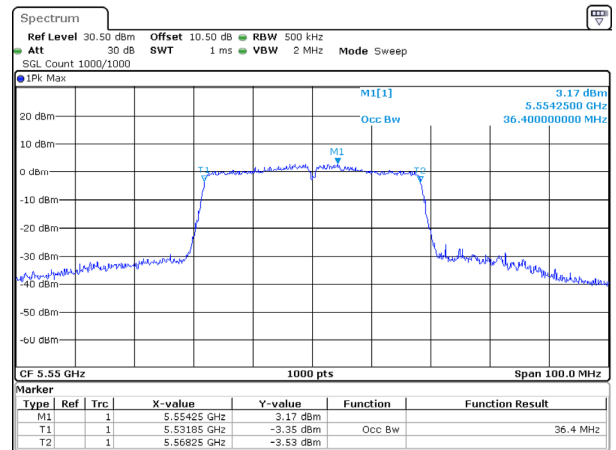
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Date: 23.APR.2025 11:05:27

802.11ac40_5510MHz



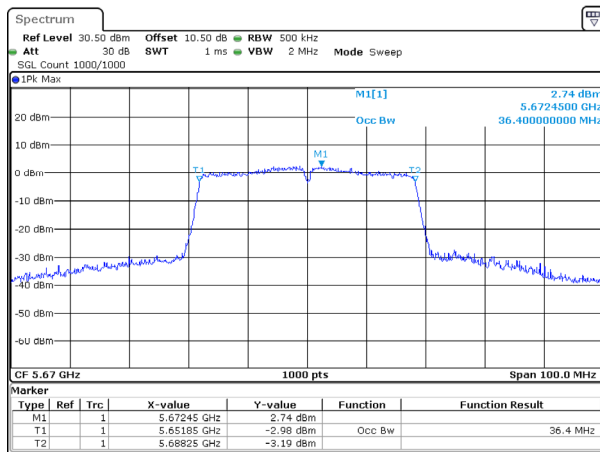
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Date: 23.APR.2025 11:07:00

802.11ac40_5550MHz



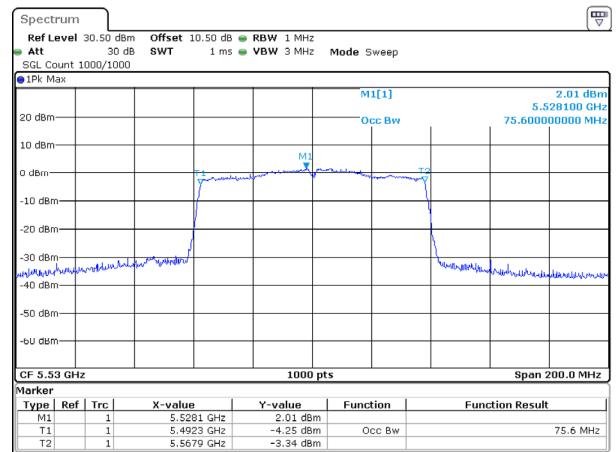
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 11:08:23

802.11ac40_5670MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 11:16:24

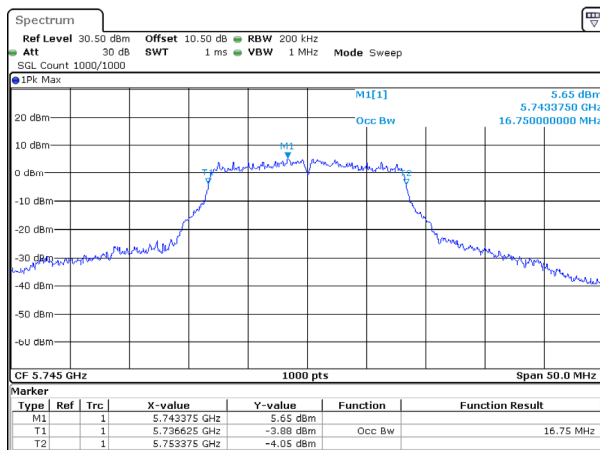
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ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 23.APR.2025 11:28:08

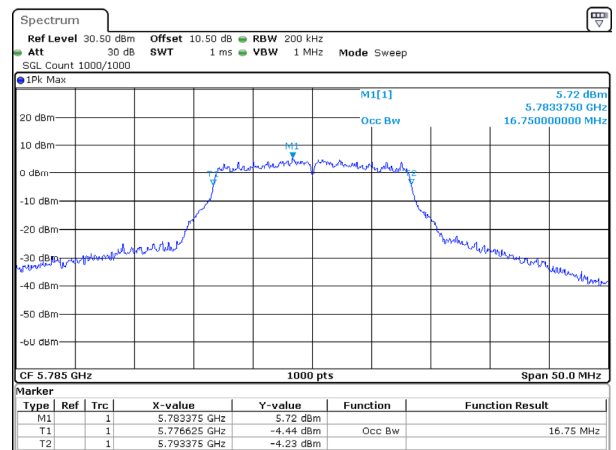
5725-5850MHz

802.11a_5745MHz



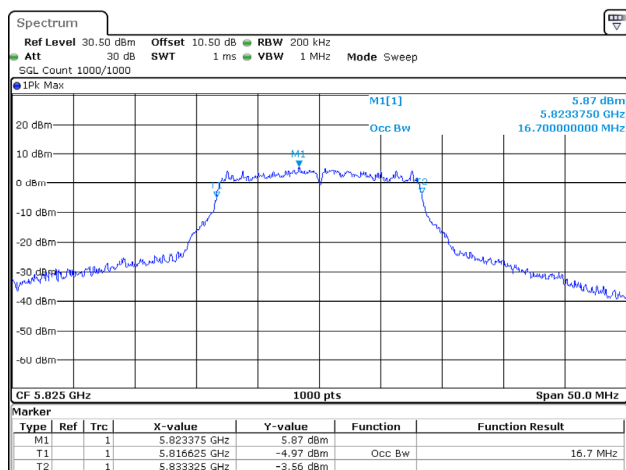
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Date: 20.FEB.2025 13:50:07

802.11a_5785MHz



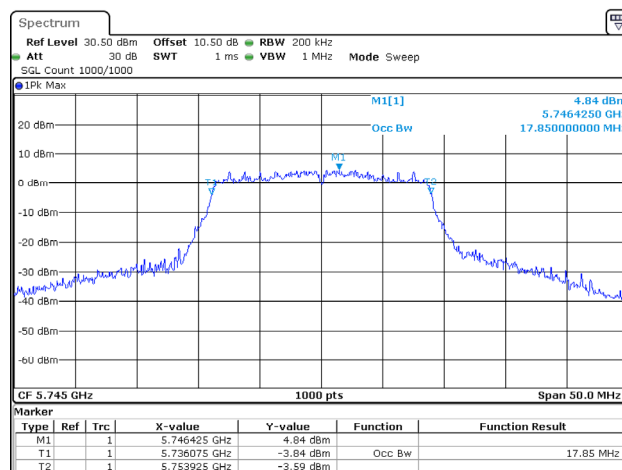
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802.11a_5825MHz



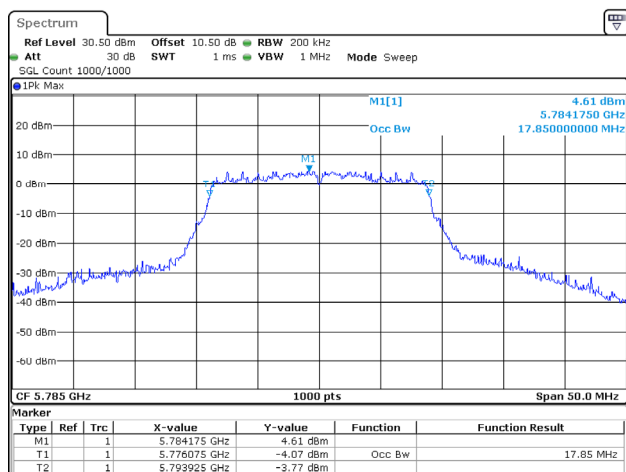
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802.11ac20_5745MHz



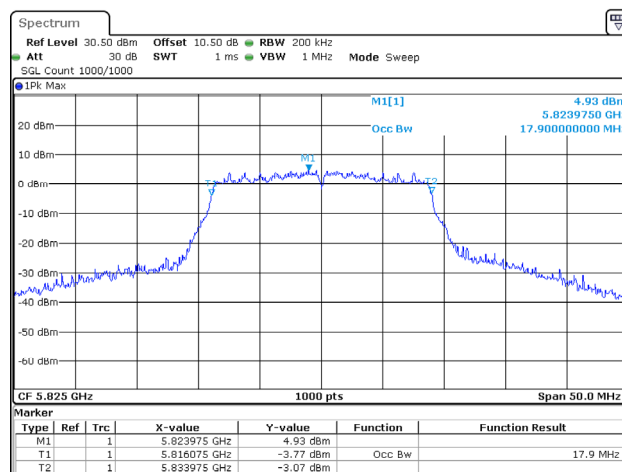
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802.11ac20_5785MHz



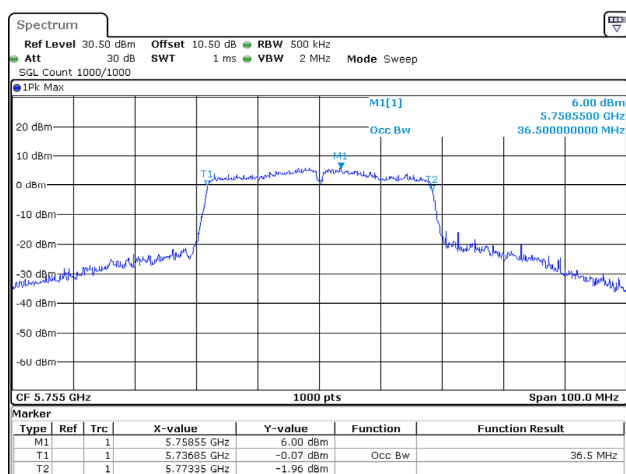
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
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802.11ac20_5825MHz



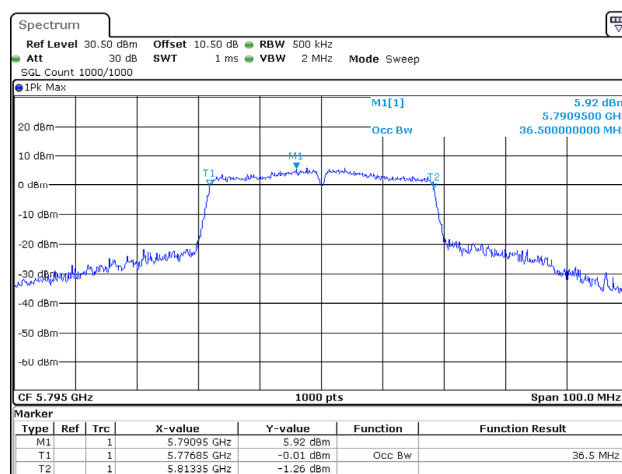
ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 14:02:53

802.11ac40_5755MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 14:05:34

802.11ac40_5795MHz



ProjectNo.:2501P27167E-RF Tester:Rainbow Zhu
Date: 20.FEB.2025 14:06:43