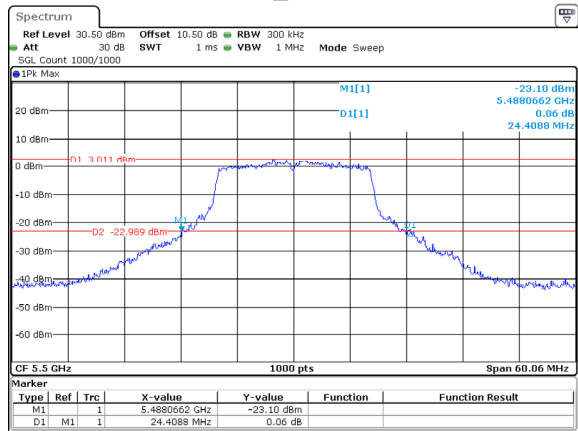
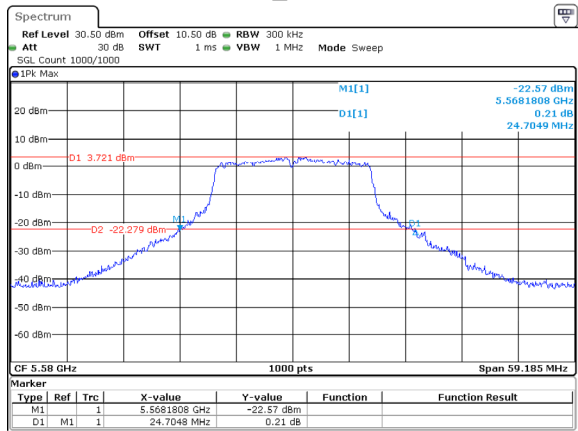


5470-5725MHz

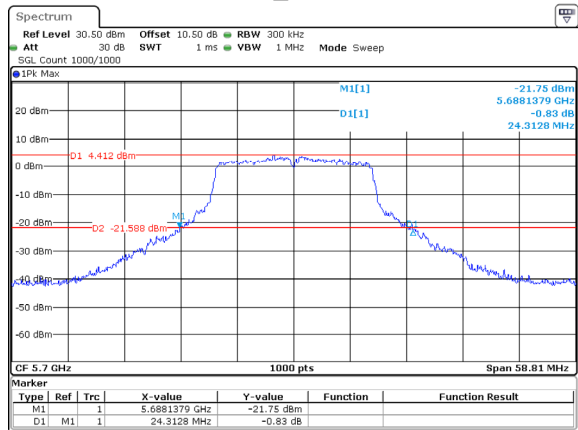
802.11a_5500MHz



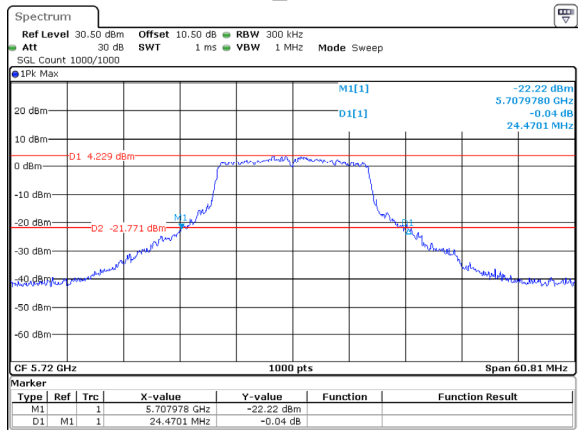
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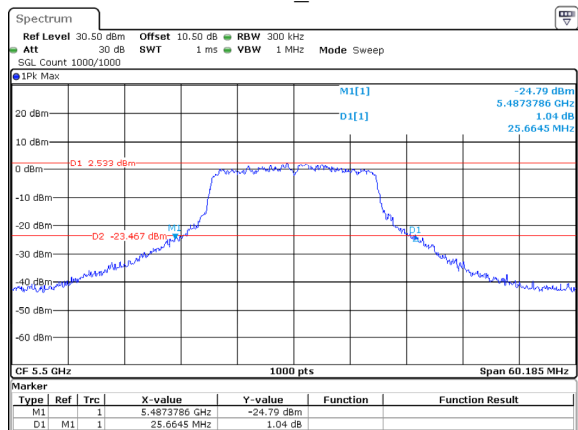
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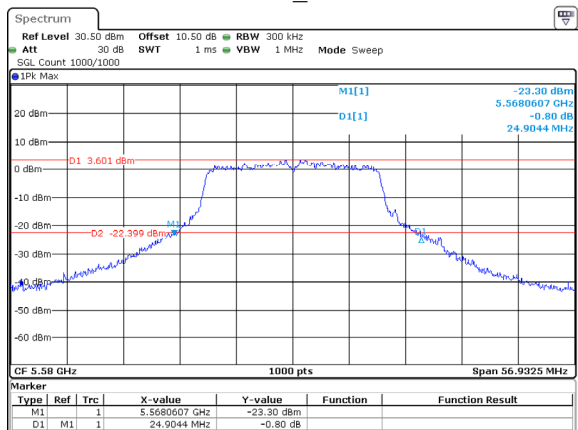
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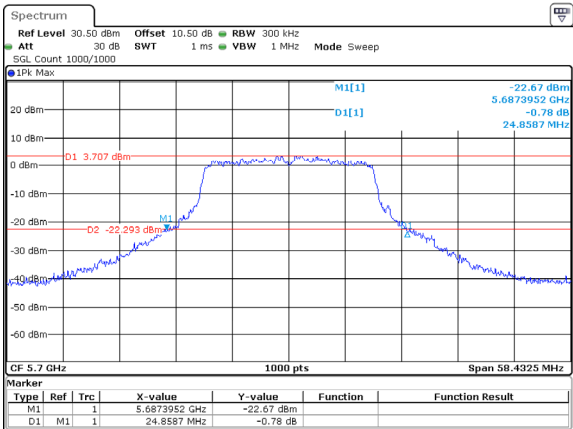
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802.11ac20_5580MHz

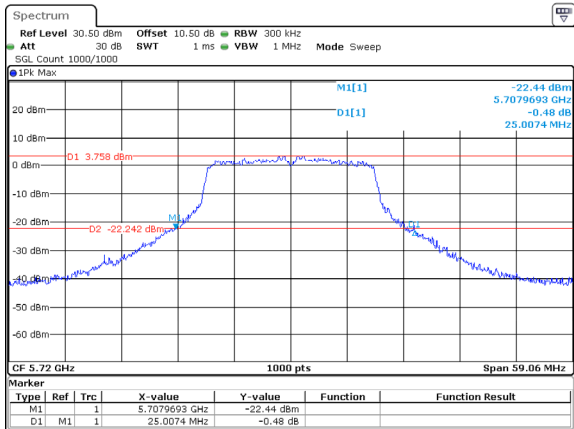


802.11ac20_5700MHz



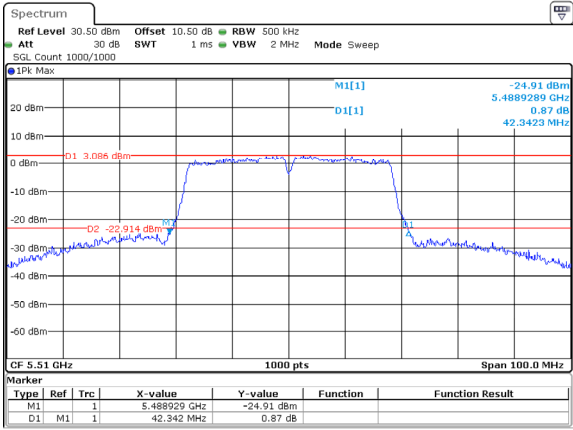
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Date: 20.JAN.2025 16:54:47

802.11ac20_5720MHz



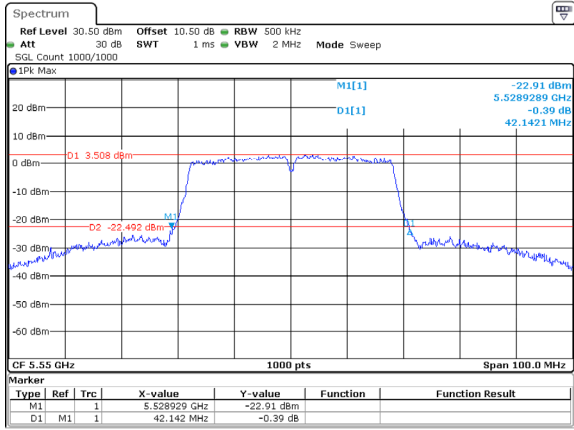
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802.11ac40_5510MHz



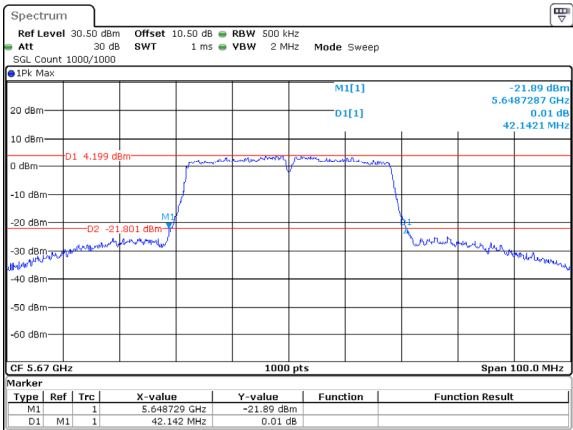
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802.11ac40_5550MHz



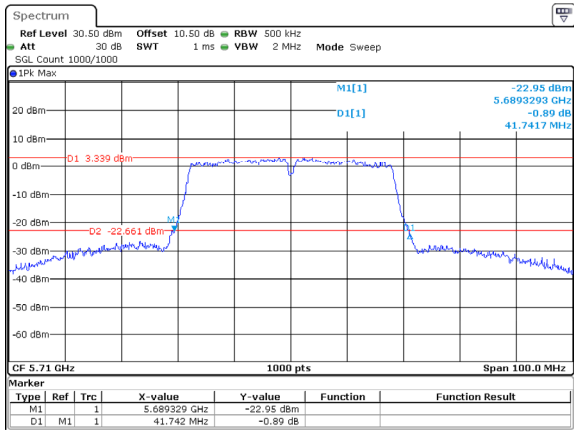
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Date: 20.JAN.2025 17:02:34

802.11ac40_5670MHz



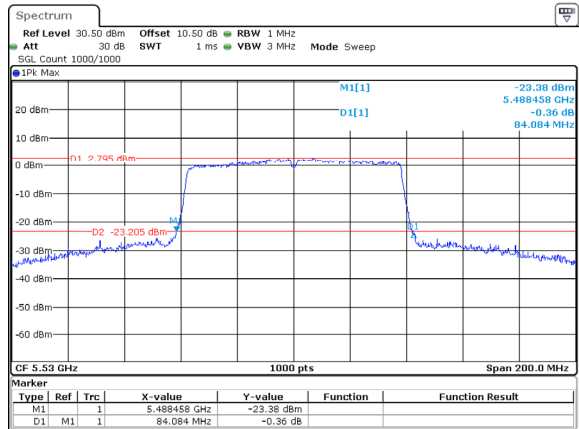
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802.11ac40_5710MHz



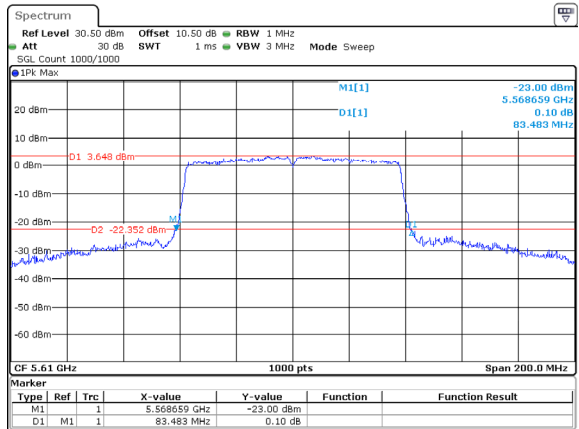
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Date: 20.JAN.2025 17:07:35

802.11ac80_5530MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 17:12:54

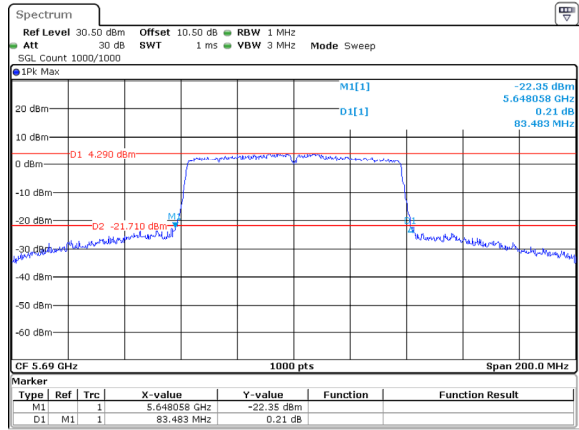
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Date: 20.JAN.2025 17:18:43

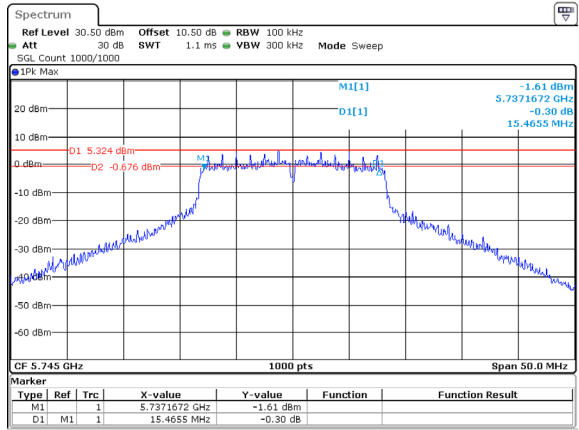
5725-5850MHz

802.11ac80_5690MHz



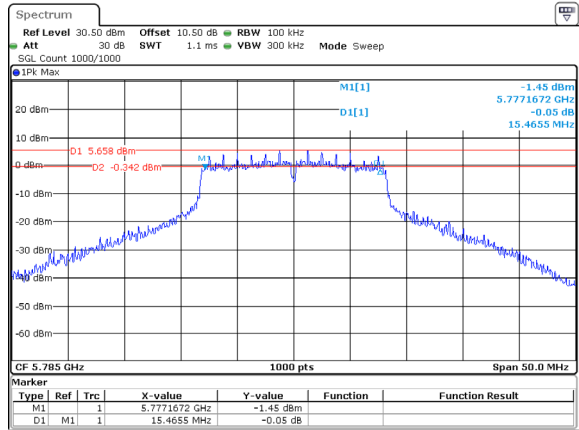
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Date: 20.JAN.2025 17:20:21

802.11a_5745MHz



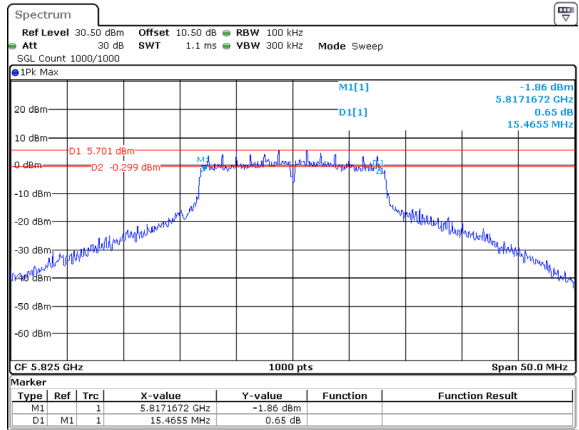
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Date: 23.DEC.2024 14:51:25

802.11a_5785MHz



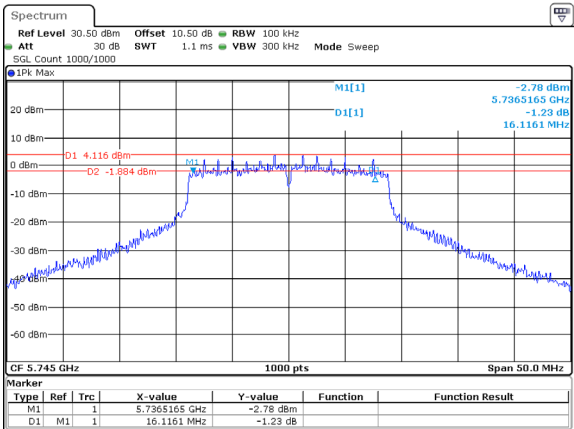
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802.11a_5825MHz



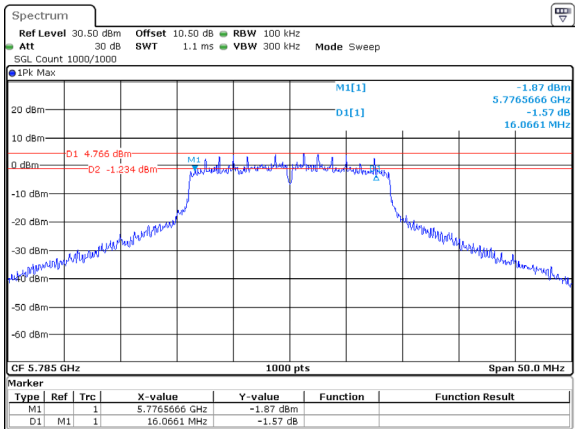
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802.11ac20_5745MHz



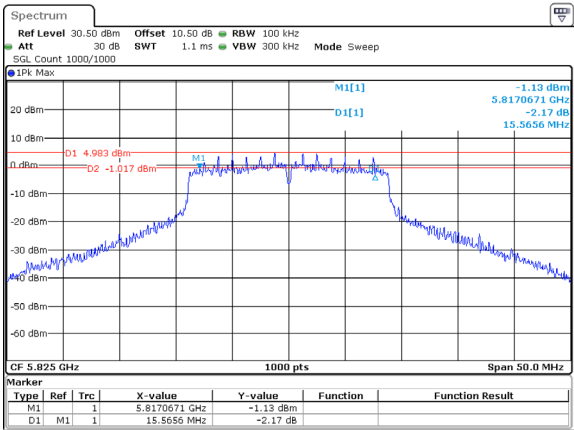
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802.11ac20_5785MHz



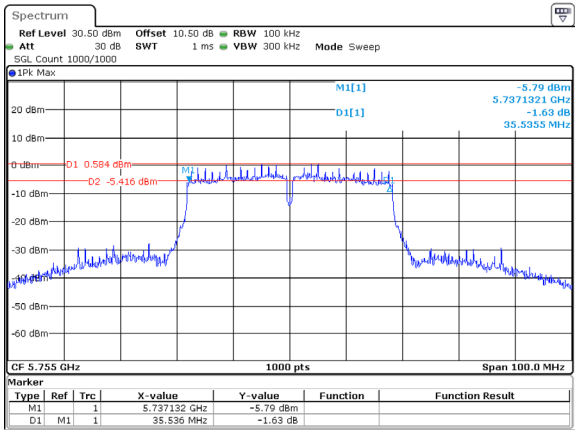
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802.11ac20_5825MHz



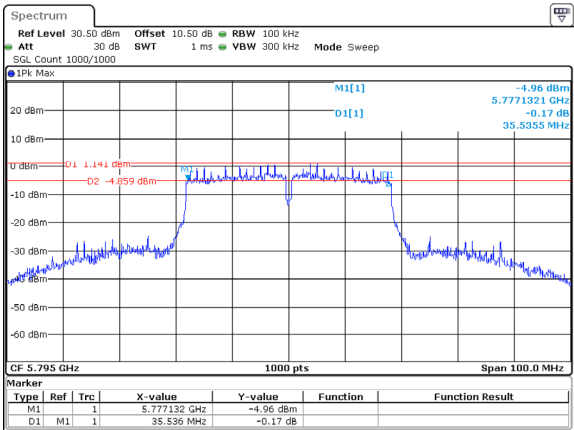
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Date: 23.DEC.2024 15:29:09

802.11ac40_5755MHz



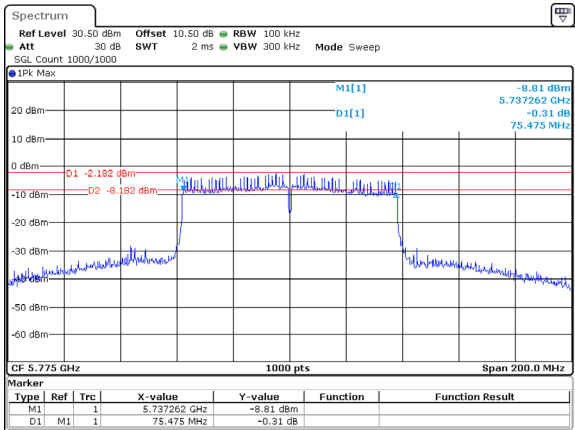
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Date: 23.DEC.2024 15:51:09

802.11ac40_5795MHz



ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:51:39

802.11ac80_5775MHz



ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 16:09:12

99% Occupied Bandwidth

Test Information:

Sample No.:	2V9A-3	Test Date:	2024/12/23~2025/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang & Brian Li	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	23.8-25.2	Relative Humidity: (%)	37-45	ATM Pressure: (kPa)	101.4-101.7
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.800
	5200	16.800
	5240	16.750
802.11ac20	5180	17.950
	5200	18
	5240	17.950
802.11ac40	5190	36.400
	5230	36.400
802.11ac80	5210	75.800

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	16.700
	5320	16.650
802.11ac20	5260	17.950
	5280	17.900
	5320	17.850
802.11ac40	5270	36.400
	5310	36.400
802.11ac80	5290	75.800

5470-5725MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5500	16.600
	5580	16.600
	5700	16.600
	5720	16.650
802.11ac20	5500	17.850
	5580	17.850
	5700	17.850
	5720	17.850
802.11ac40	5510	36.300
	5550	36.300
	5670	36.400
	5710	36.400
802.11ac80	5530	75.800
	5610	75.800
	5690	75.800

5725-5850MHz

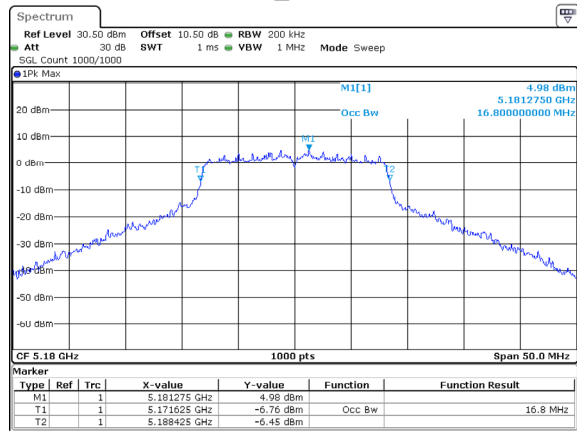
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.850
	5785	17.050
	5825	17.600
802.11ac20	5745	18.050
	5785	19.250
	5825	19.300
802.11ac40	5755	37.500
	5795	36.700
802.11ac80	5775	76.200

Note:

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

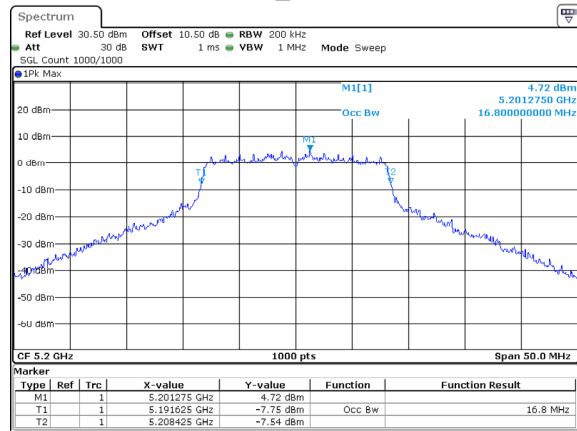
5150-5250MHz

802.11a_5180MHz



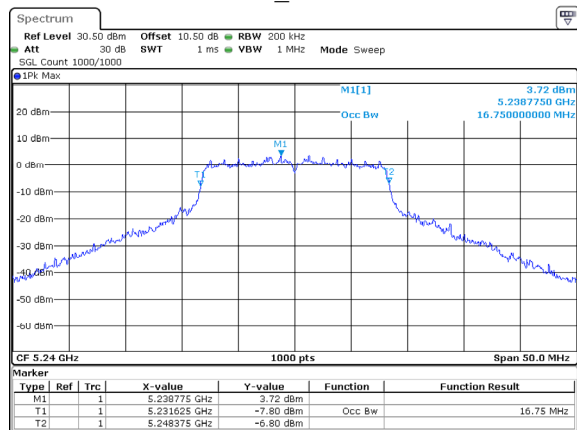
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Date: 20.JAN.2025 15:24:50

802.11a_5200MHz



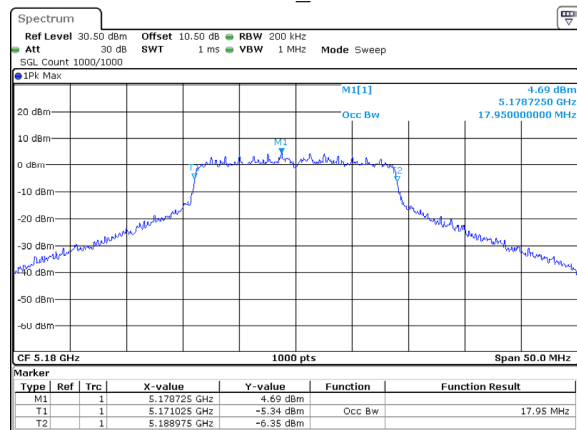
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802.11a_5240MHz



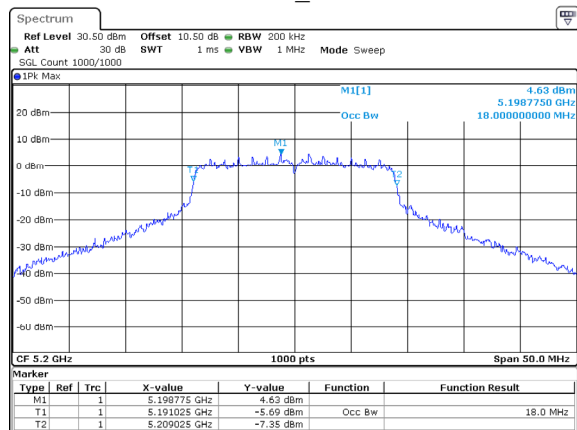
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Date: 20.JAN.2025 15:29:03

802.11ac20_5180MHz



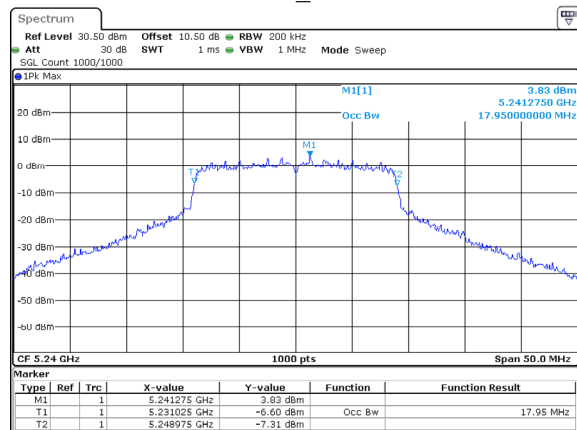
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802.11ac20_5200MHz



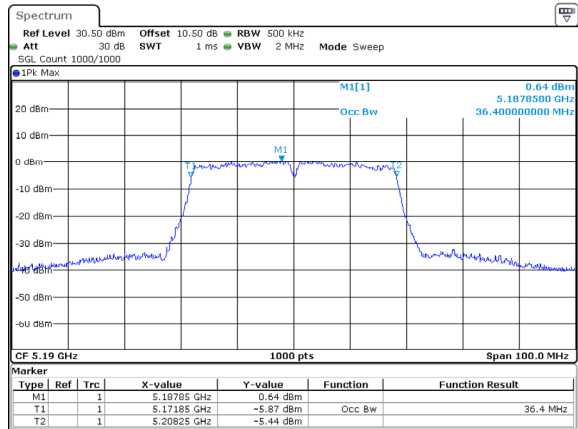
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802.11ac20_5240MHz



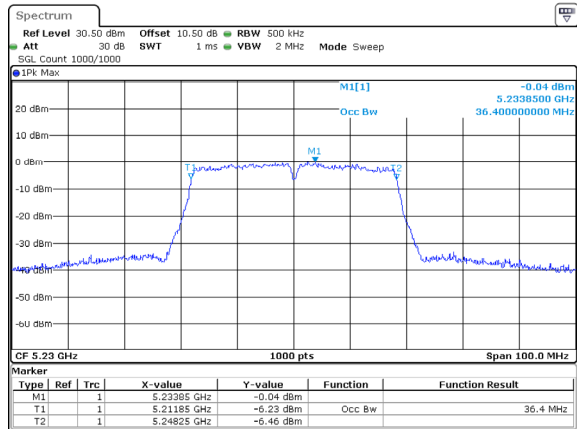
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802.11ac40_5190MHz



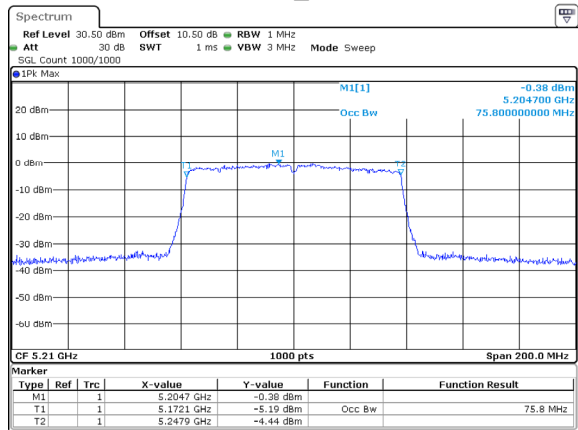
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802.11ac40_5230MHz



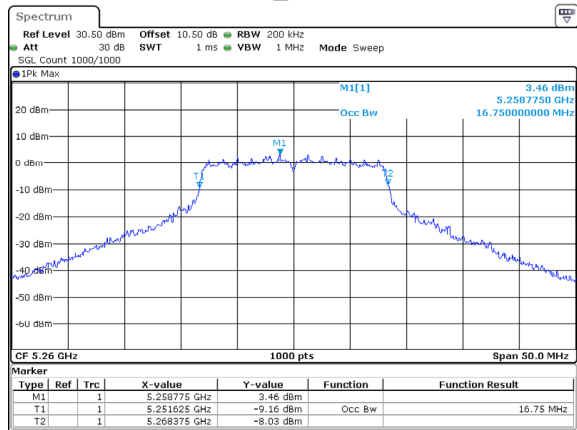
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802.11ac80_5210MHz



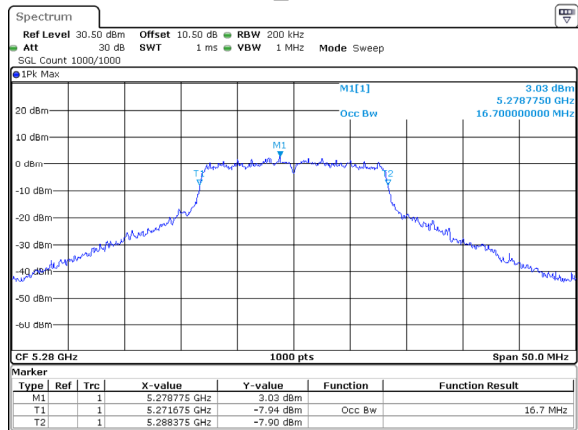
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802.11a_5260MHz



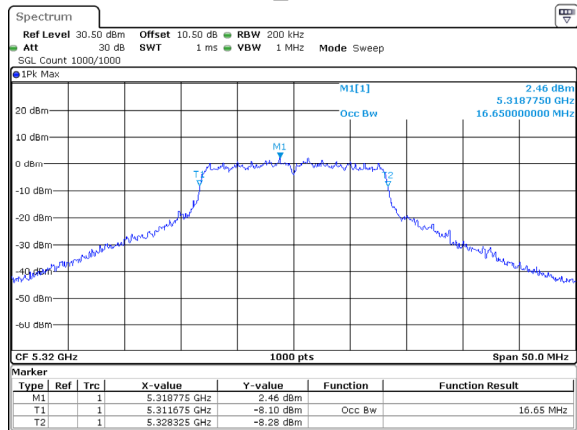
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802.11a_5280MHz



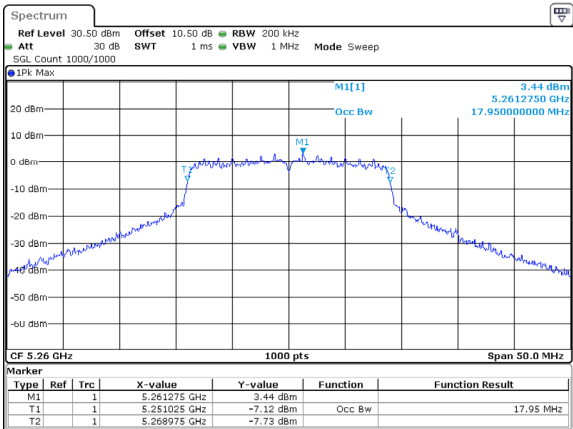
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802.11a_5320MHz



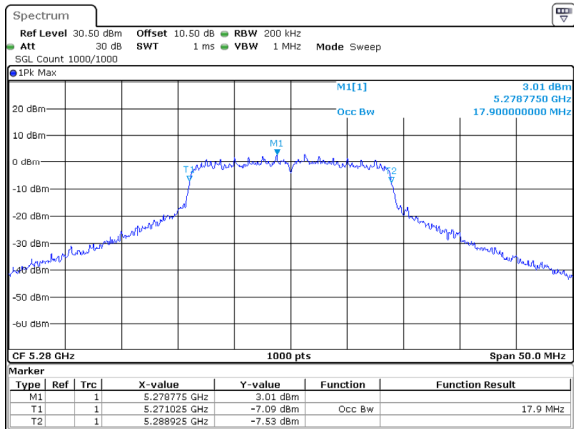
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 Date: 20.JAN.2025 15:59:00

802.11ac20_5260MHz



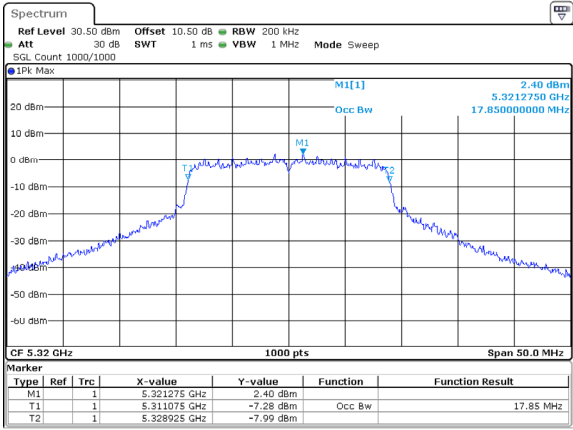
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Date: 20.JAN.2025 16:02:21

802.11ac20_5280MHz



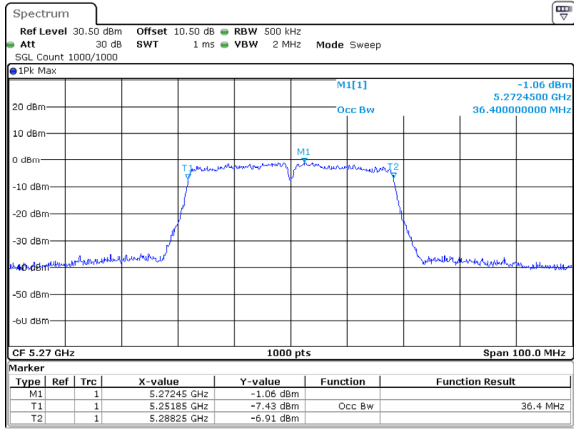
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802.11ac20_5320MHz



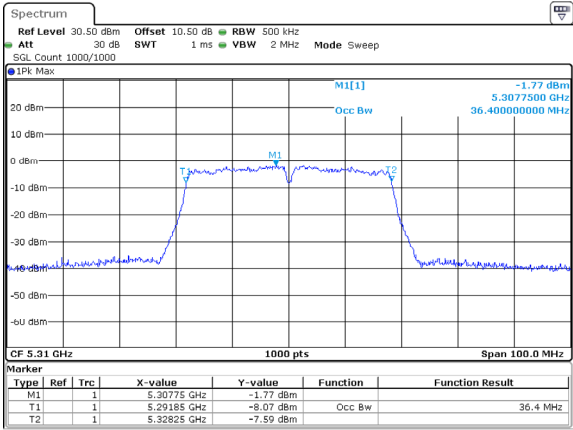
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Date: 20.JAN.2025 16:22:05

802.11ac40_5270MHz



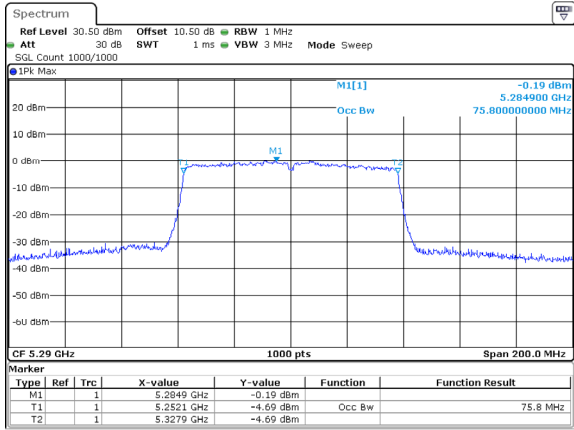
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802.11ac40_5310MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
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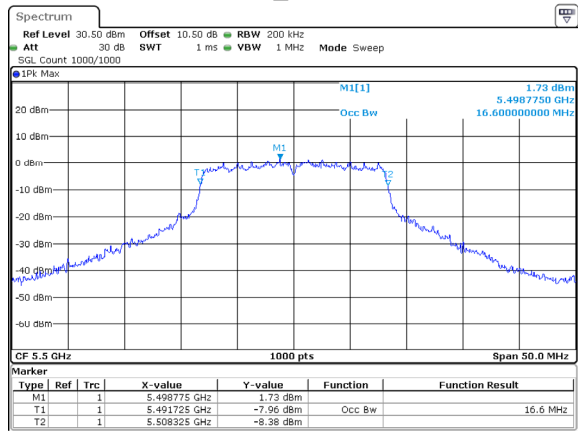
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ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 16:27:29

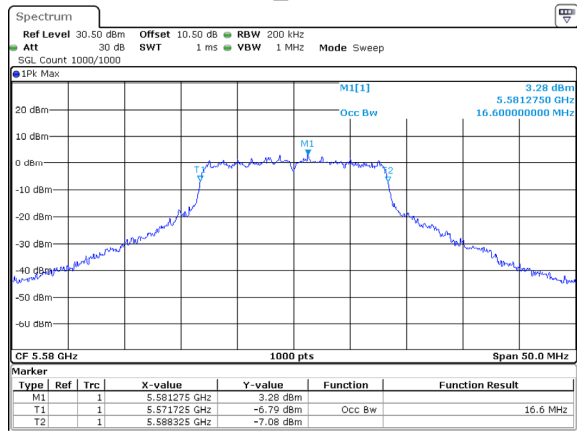
5470-5725MHz

802.11a_5500MHz



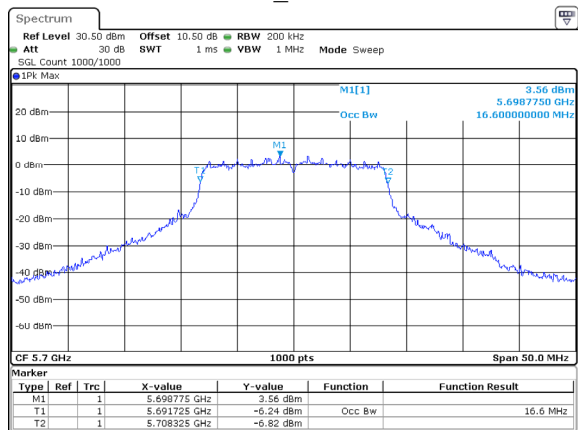
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802.11a_5580MHz



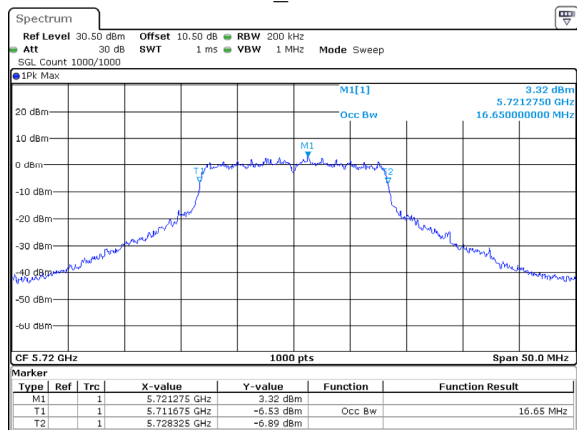
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Date: 20.JAN.2025 16:34:27

802.11a_5700MHz



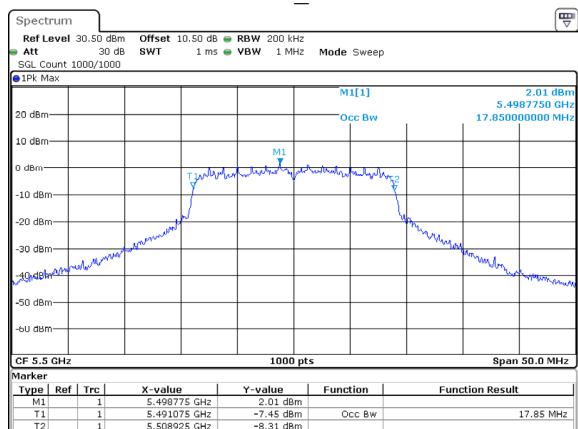
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Date: 20.JAN.2025 16:38:23

802.11a_5720MHz



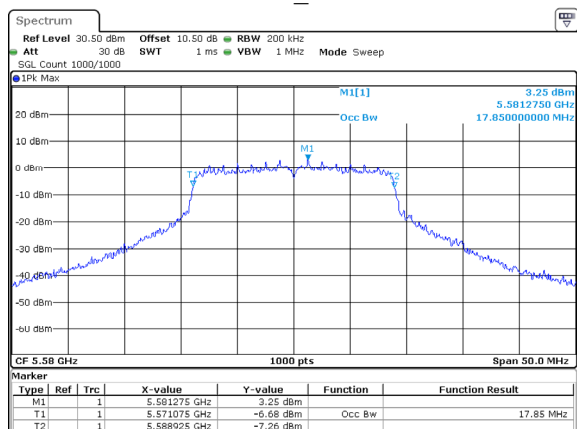
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802.11ac20_5500MHz



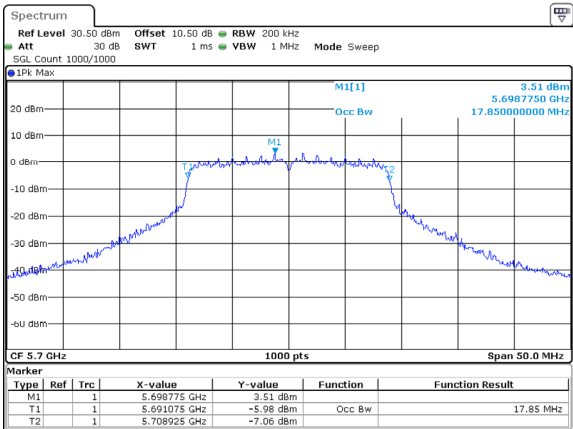
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802.11ac20_5580MHz



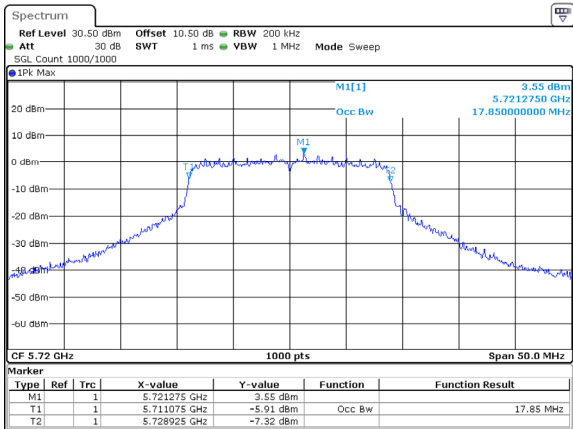
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802.11ac20_5700MHz



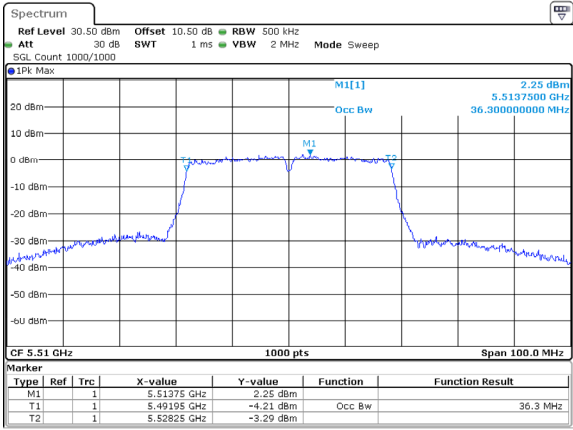
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802.11ac20_5720MHz



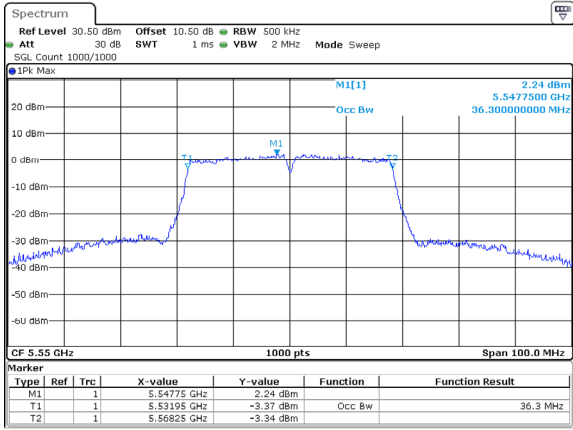
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802.11ac40_5510MHz



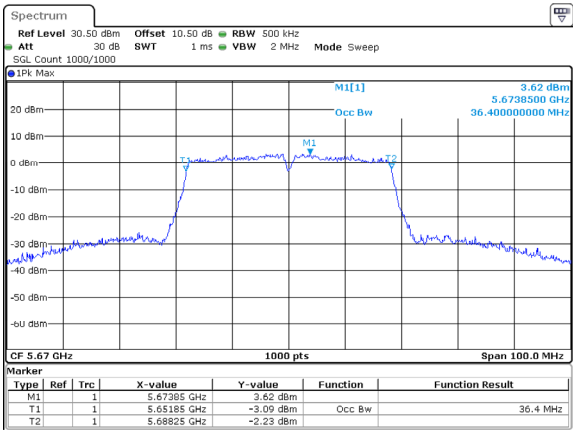
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802.11ac40_5550MHz



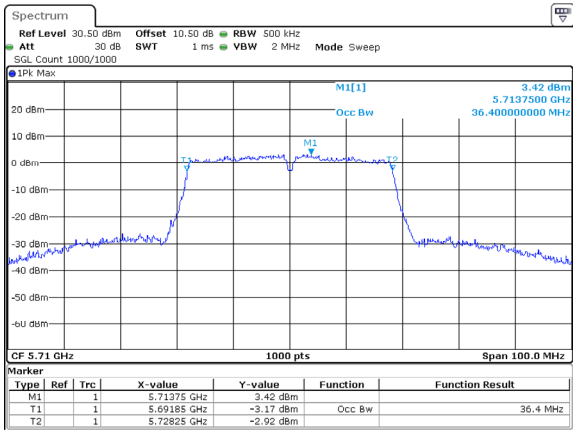
ProjectNo.:2401Z46778E-RF Tester:Brian Li
 Date: 20.JAN.2025 17:02:52

802.11ac40_5670MHz



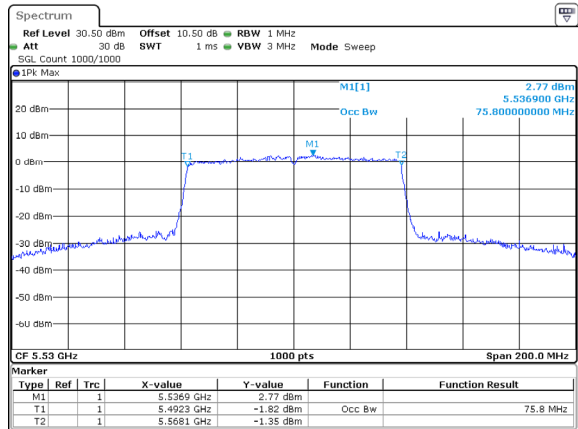
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802.11ac40_5710MHz



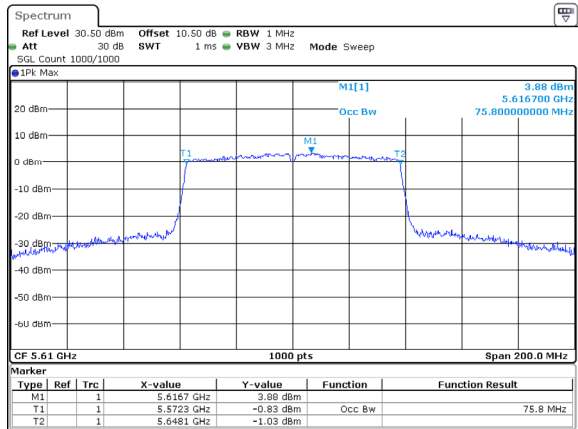
ProjectNo.:2401Z46778E-RF Tester:Brian Li
 Date: 20.JAN.2025 17:07:52

802.11ac80_5530MHz



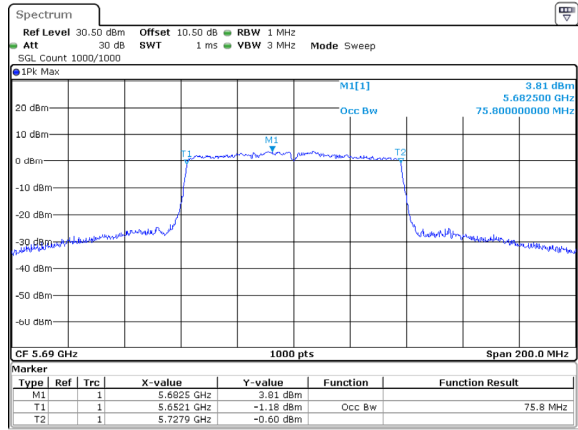
ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 17:13:17

802.11ac80_5610MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 17:19:06

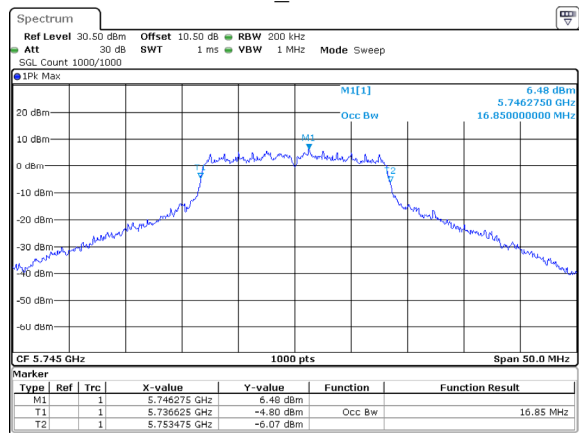
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ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 17:20:45

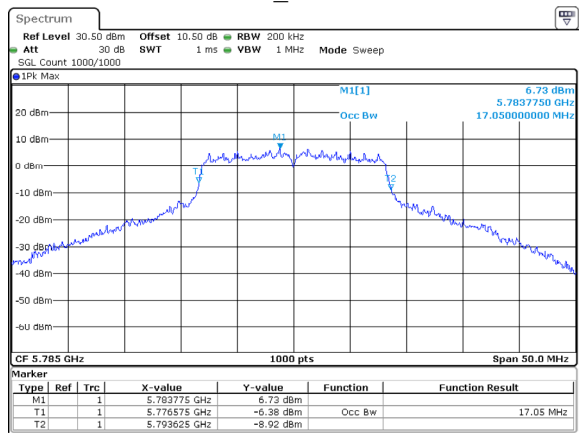
5725-5850MHz

802.11a_5745MHz



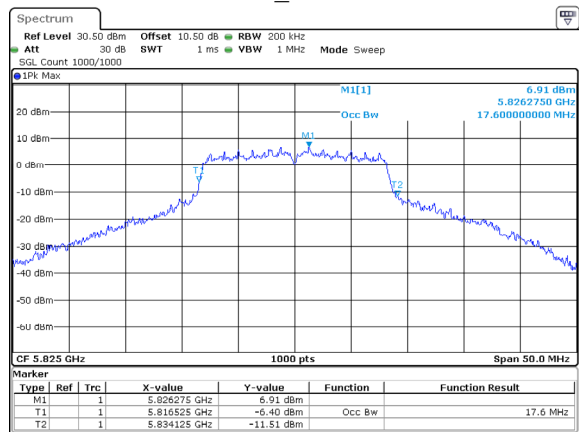
ProjectNo.:2401246778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:03:32

802.11a_5785MHz



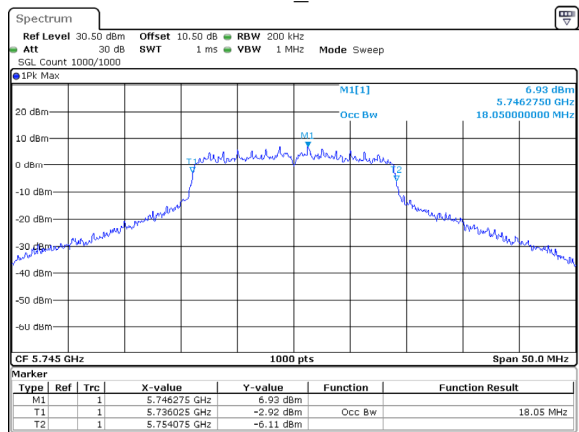
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Date: 23.DEC.2024 15:07:27

802.11a_5825MHz



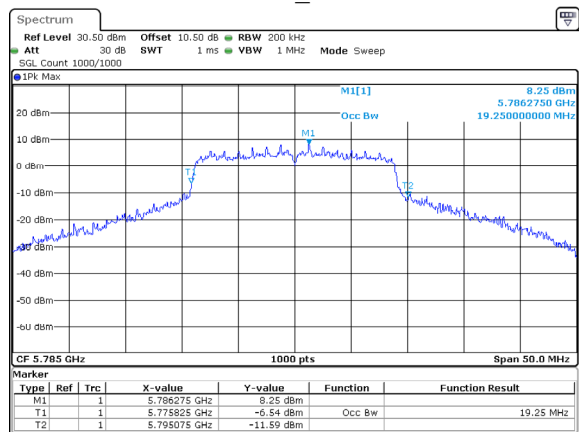
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Date: 23.DEC.2024 15:08:56

802.11ac20_5745MHz



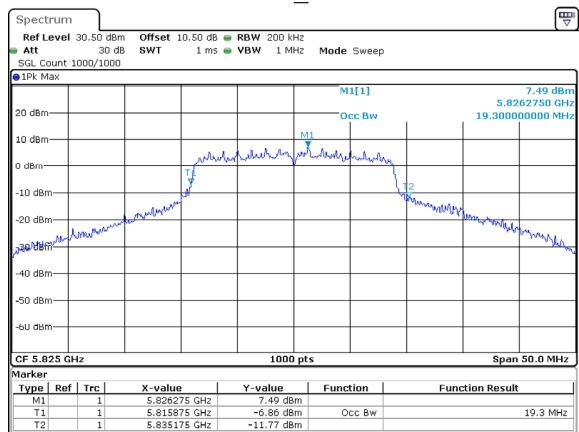
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Date: 23.JAN.2025 14:14:44

802.11ac20_5785MHz



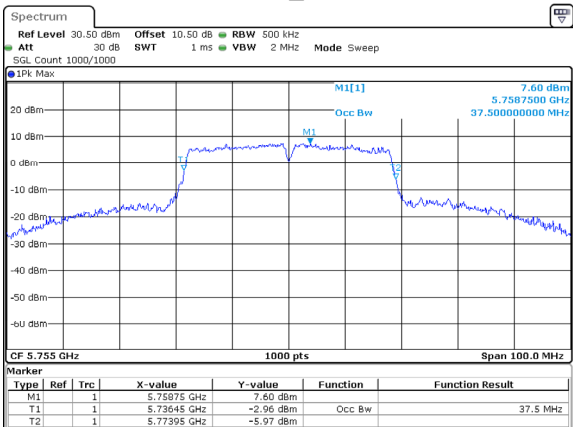
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802.11ac20_5825MHz



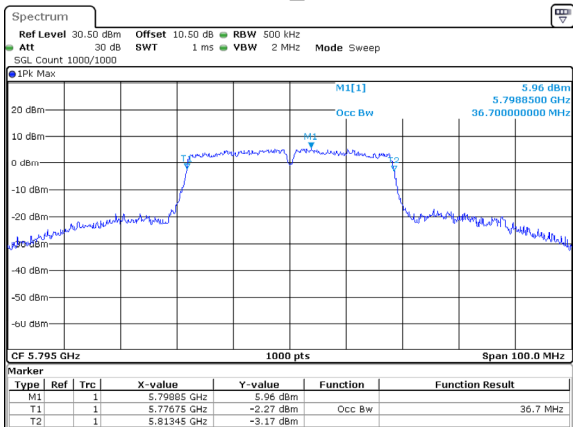
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802.11ac40_5755MHz



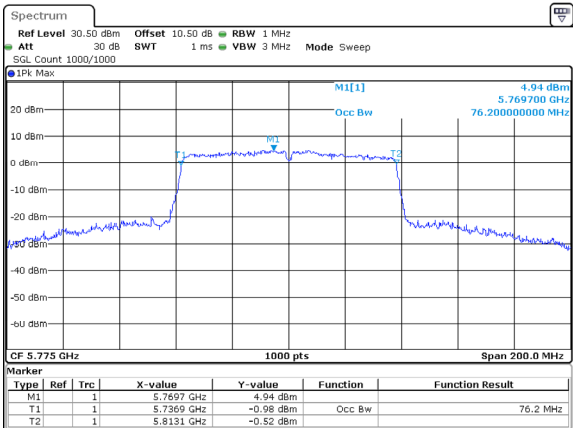
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802.11ac40_5795MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 23.JAN.2025 14:24:05

802.11ac80_5775MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 23.JAN.2025 14:21:25

Maximum Conducted Output Power

Test Information:

Sample No.:	2V9A-3	Test Date:	2024/12/23~2025/01/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang & Brian Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	23.8-25.2	Relative Humidity: (%)	37-45	ATM Pressure: (kPa)	101.4-101.7
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11a	5180	13.53	24	Pass
	5200	13.18	24	Pass
	5240	12.35	24	Pass
802.11ac20	5180	13.39	24	Pass
	5200	13.04	24	Pass
	5240	12.23	24	Pass
802.11ac40	5190	10.02	24	Pass
	5230	9.28	24	Pass
802.11ac80	5210	8.35	24	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11a	5260	11.96	24	Pass
	5280	11.63	24	Pass
	5320	11.02	24	Pass
802.11ac20	5260	11.86	24	Pass
	5280	11.44	24	Pass
	5320	10.87	24	Pass
802.11ac40	5270	8.37	24	Pass
	5310	7.71	24	Pass
802.11ac80	5290	8.63	24	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11a	5500	10.52	24	Pass
	5580	11.75	24	Pass
	5700	12.09	24	Pass
	5720	12.01	24	Pass
802.11ac20	5500	10.38	24	Pass
	5580	11.59	24	Pass
	5700	11.94	24	Pass
	5720	11.83	24	Pass
802.11ac40	5510	11.4	24	Pass
	5550	11.72	24	Pass
	5670	12.97	24	Pass
	5710	12.84	24	Pass
802.11ac80	5530	11.37	24	Pass
	5610	12.32	24	Pass
	5690	12.48	24	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power (dBm)	Limit (dBm)	Verdict
802.11a	5745	14.64	30	Pass
	5785	15.05	30	Pass
	5825	15.07	30	Pass
802.11ac20	5745	13.47	30	Pass
	5785	13.89	30	Pass
	5825	13.88	30	Pass
802.11ac40	5755	13.63	30	Pass
	5795	14.22	30	Pass
802.11ac80	5775	13.15	30	Pass

Note:

The EUT is a client device.

Power Spectral Density

Test Information:

Sample No.:	2V9A-3	Test Date:	2024/12/23~2025/01/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cheeb Huang & Brian Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	23.8-25.2	Relative Humidity: (%)	37-45	ATM Pressure: (kPa)	101.4-101.7
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Test Data:**5150-5250MHz**

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	3.39	/	3.39	11	Pass
	5200	2.65	/	2.65	11	Pass
	5240	2.12	/	2.12	11	Pass
802.11ac20	5180	2.75	/	2.75	11	Pass
	5200	2.44	/	2.44	11	Pass
	5240	1.37	/	1.37	11	Pass
802.11ac40	5190	-3.90	0.17	-3.73	11	Pass
	5230	-4.42	0.17	-4.25	11	Pass
802.11ac80	5210	-8.54	0.33	-8.21	11	Pass

5250-5350MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5260	1.53	/	1.53	11	Pass
	5280	1.22	/	1.22	11	Pass
	5320	0.59	/	0.59	11	Pass
802.11ac20	5260	1.30	/	1.30	11	Pass
	5280	0.93	/	0.93	11	Pass
	5320	0.39	/	0.39	11	Pass
802.11ac40	5270	-5.52	0.17	-5.35	11	Pass
	5310	-6.27	0.17	-6.10	11	Pass
802.11ac80	5290	-8.38	0.33	-8.05	11	Pass

5470-5725MHz

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5500	0.19	/	0.19	11	Pass
	5580	1.26	/	1.26	11	Pass
	5700	1.91	/	1.91	11	Pass
	5720	1.56	/	1.56	11	Pass
802.11ac20	5500	-0.26	/	-0.26	11	Pass
	5580	0.84	/	0.84	11	Pass
	5700	1.25	/	1.25	11	Pass
	5720	1.29	/	1.29	11	Pass
802.11ac40	5510	-2.47	0.17	-2.30	11	Pass
	5550	-2.06	0.17	-1.89	11	Pass
	5670	-0.92	0.17	-0.75	11	Pass
	5710	-0.98	0.17	-0.81	11	Pass
802.11ac80	5530	-5.81	0.33	-5.48	11	Pass
	5610	-4.42	0.33	-4.09	11	Pass
	5690	-4.72	0.33	-4.39	11	Pass

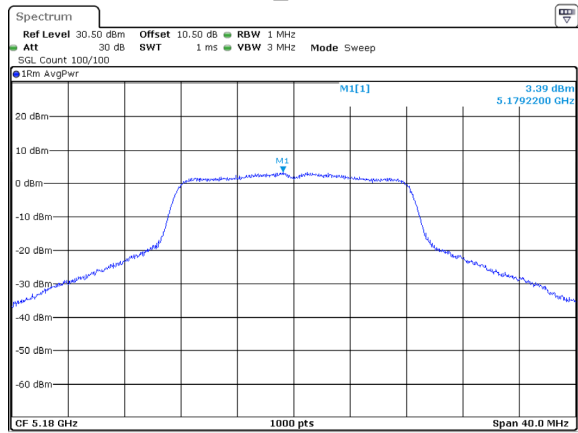
5725-5850MHz

Mode	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	5745	1.81	/	1.81	30	Pass
	5785	2.30	/	2.30	30	Pass
	5825	2.28	/	2.28	30	Pass
802.11ac20	5745	0.44	/	0.44	30	Pass
	5785	0.78	/	0.78	30	Pass
	5825	1.20	/	1.20	30	Pass
802.11ac40	5755	-3.03	0.17	-2.86	30	Pass
	5795	-2.77	0.17	-2.60	30	Pass
802.11ac80	5775	-6.38	0.33	-6.05	30	Pass

Result = Reading + Duty Cycle Factor

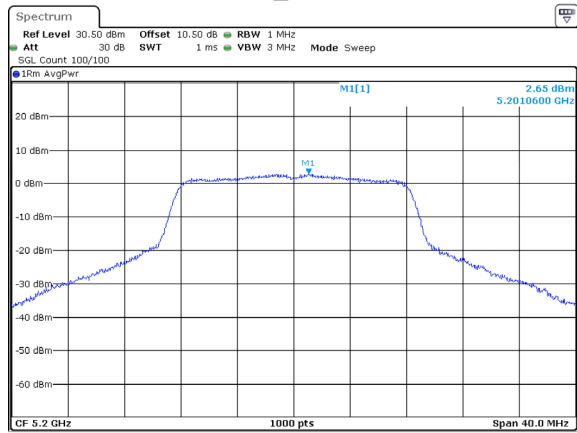
5150-5250MHz

802.11a_5180MHz



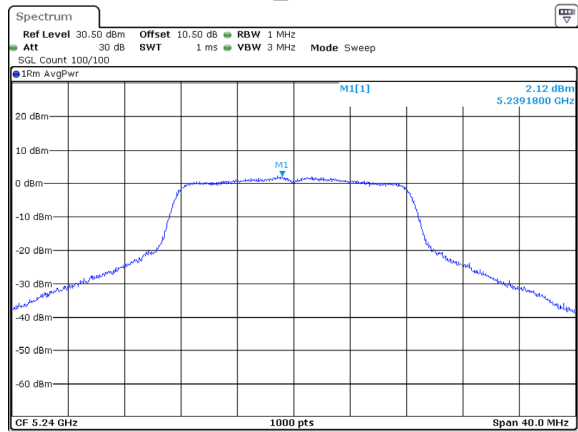
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Date: 20.JAN.2025 15:25:06

802.11a_5200MHz



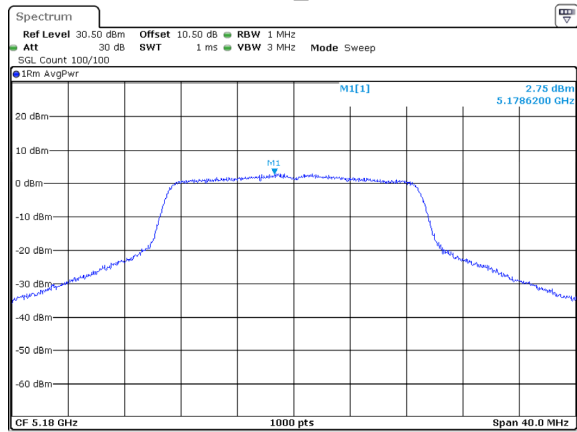
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802.11a_5240MHz



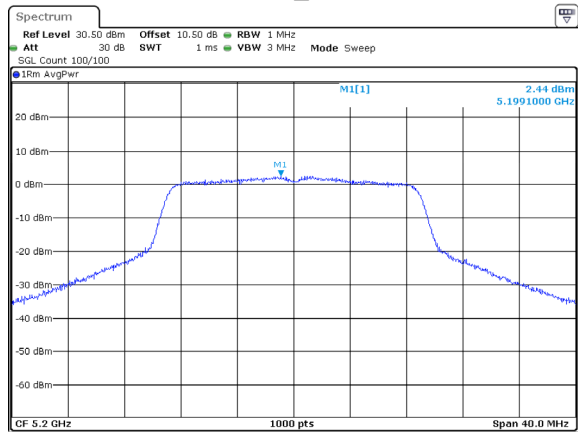
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802.11ac20_5180MHz



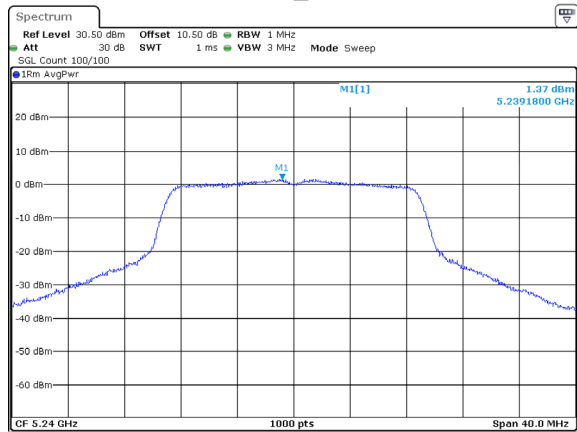
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802.11ac20_5200MHz



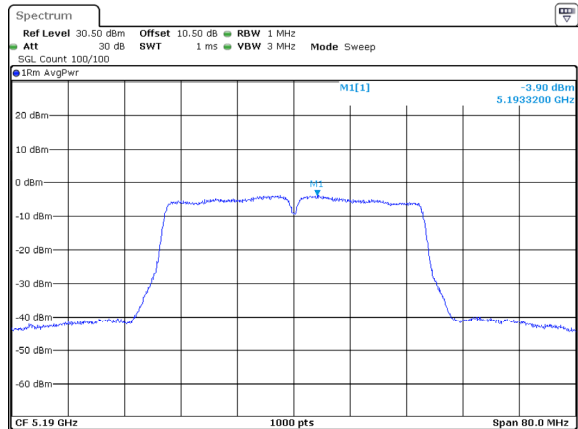
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802.11ac20_5240MHz



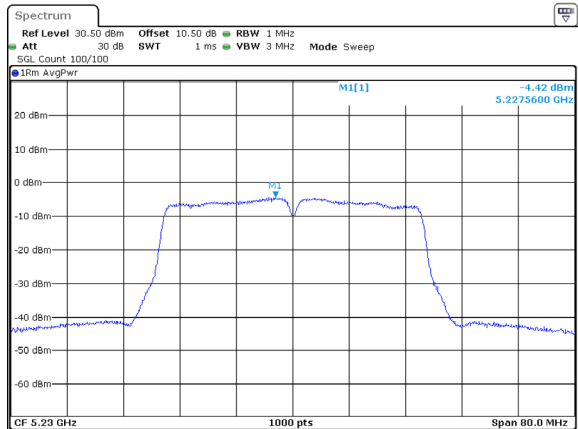
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802.11ac40_5190MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:45:15

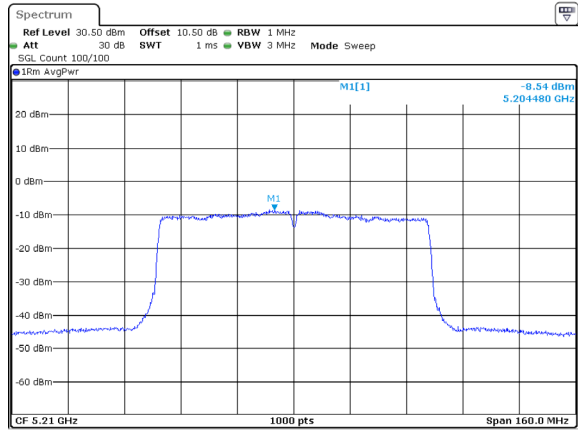
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ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:46:44

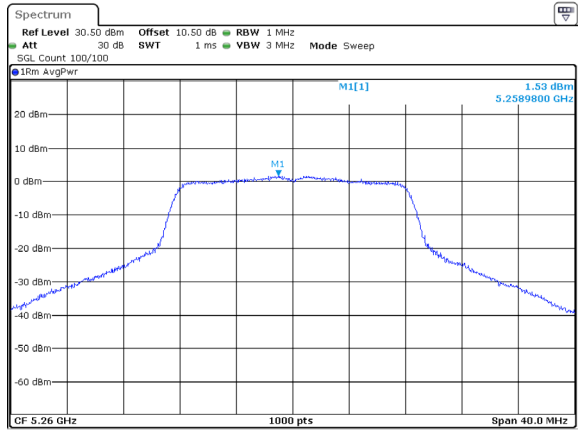
5250-5350MHz

802.11ac80_5210MHz



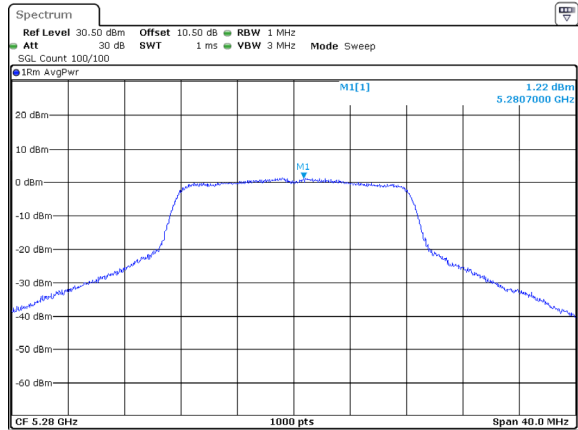
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802.11a_5260MHz



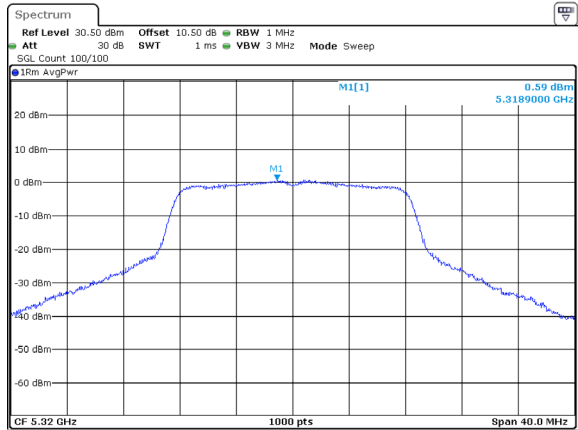
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802.11a_5280MHz



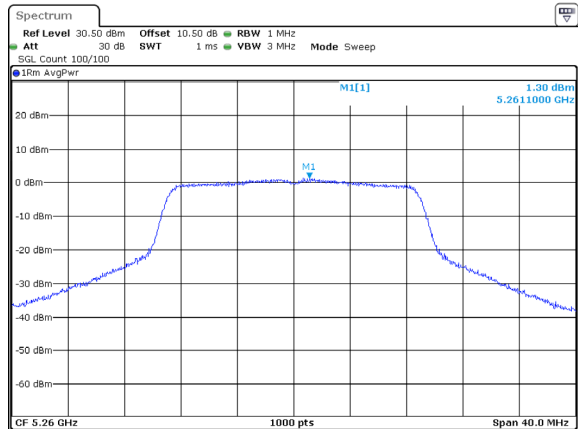
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802.11a_5320MHz



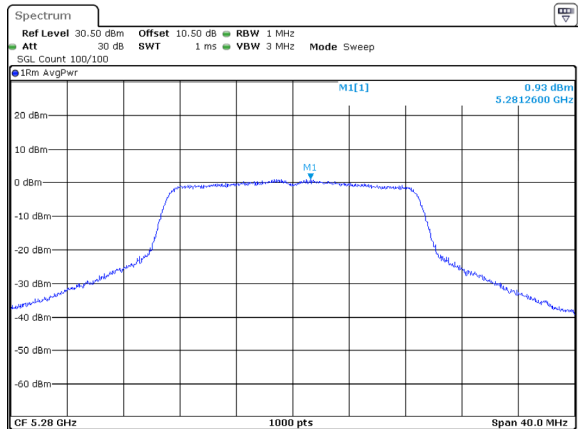
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802.11ac20_5260MHz



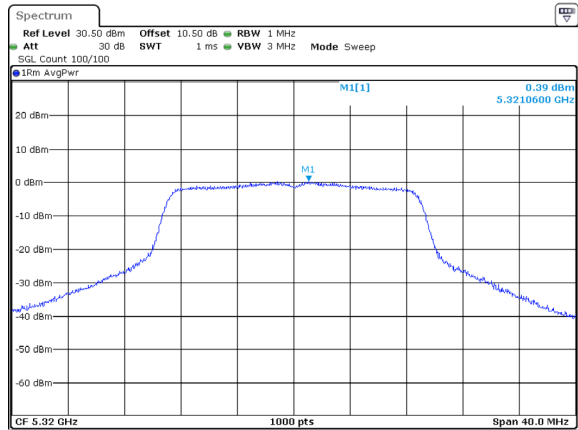
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802.11ac20_5280MHz



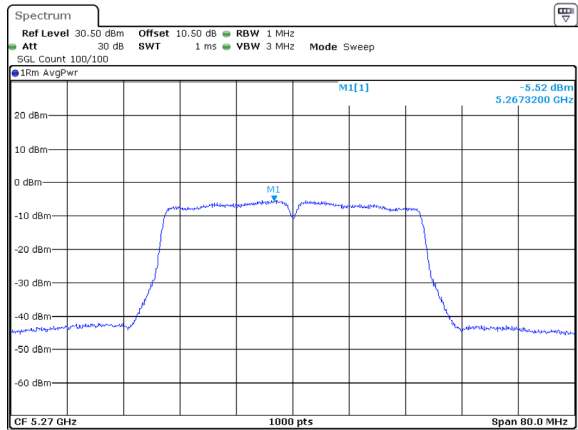
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802.11ac20_5320MHz



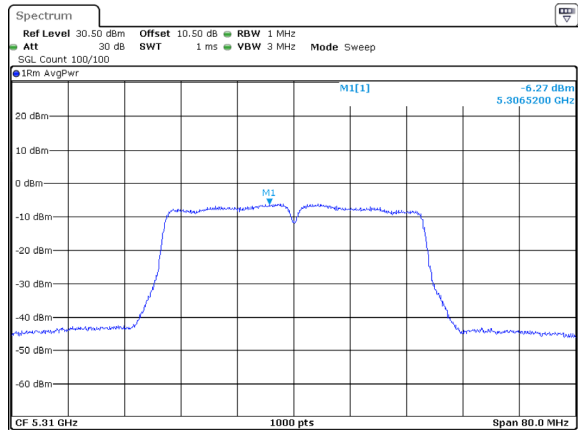
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Date: 20.JAN.2025 16:22:20

802.11ac40_5270MHz



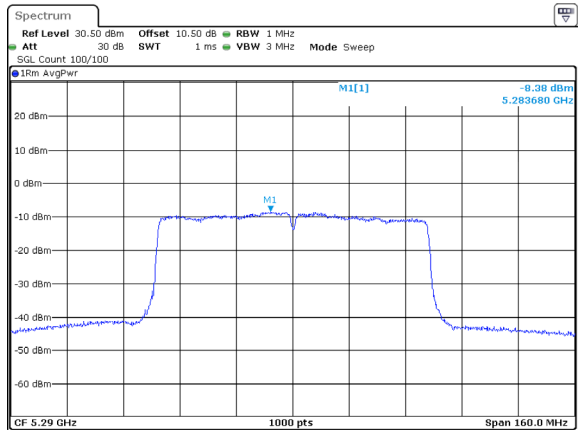
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802.11ac40_5310MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 16:25:41

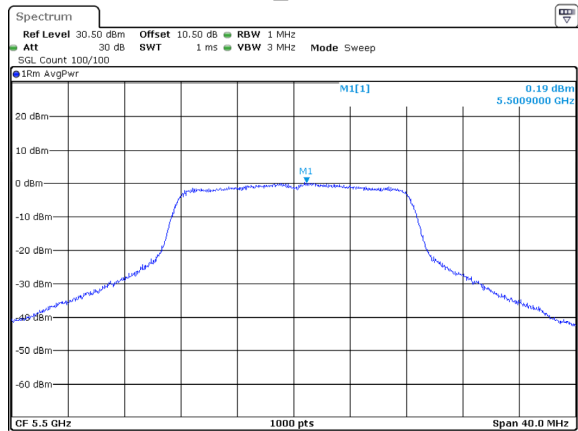
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ProjectNo.:2401Z46778E-RF Tester:Brian Li
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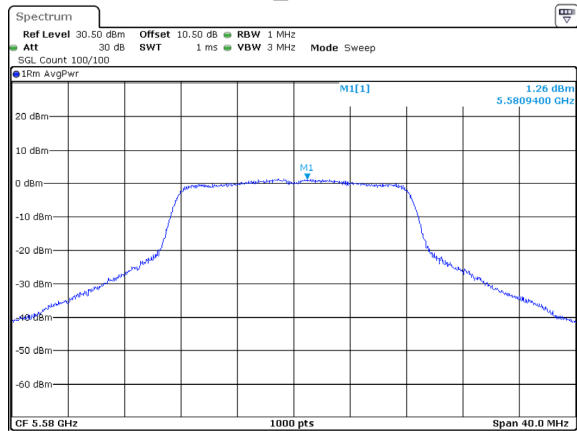
5470-5725MHz

802.11a_5500MHz



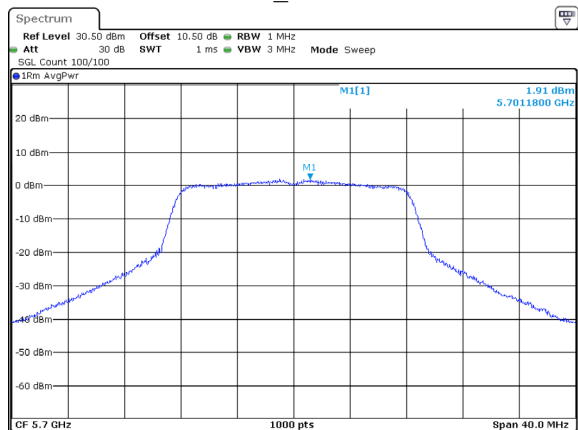
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802.11a_5580MHz



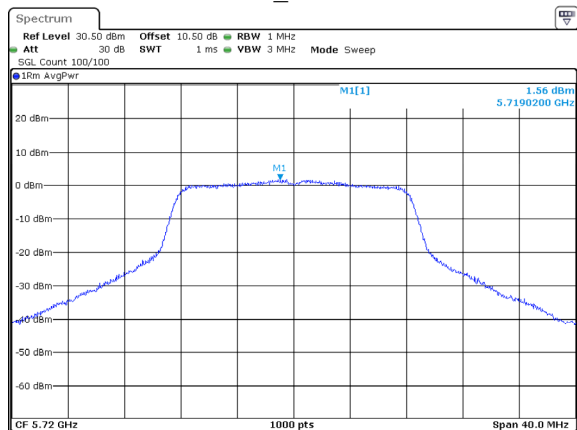
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802.11a_5700MHz



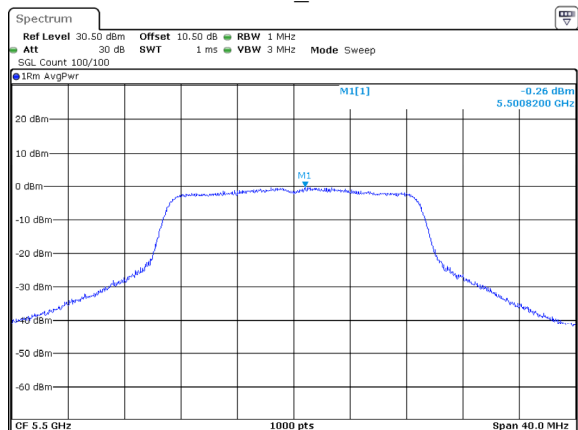
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802.11a_5720MHz



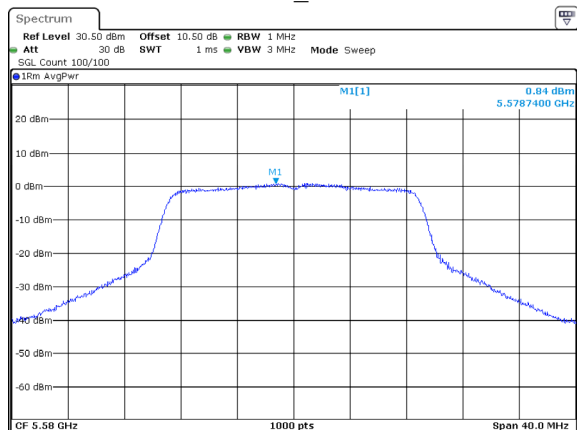
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802.11ac20_5500MHz



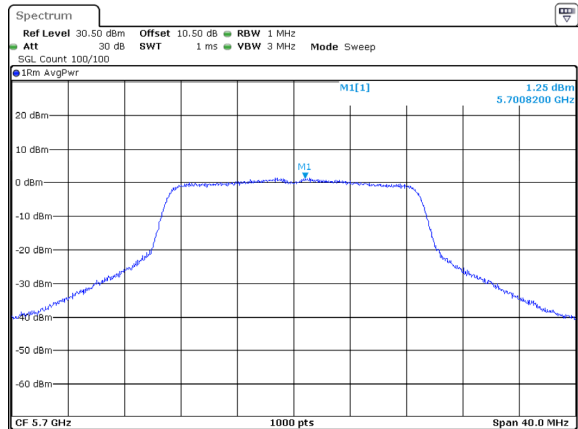
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802.11ac20_5580MHz



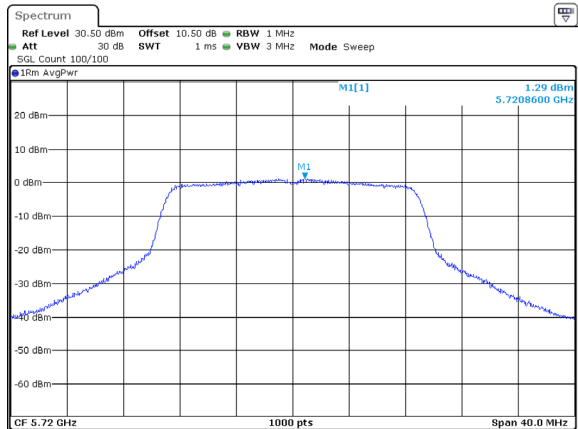
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802.11ac20_5700MHz



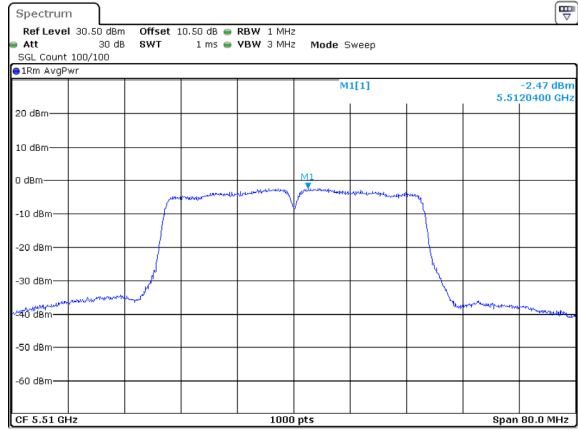
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802.11ac20_5720MHz



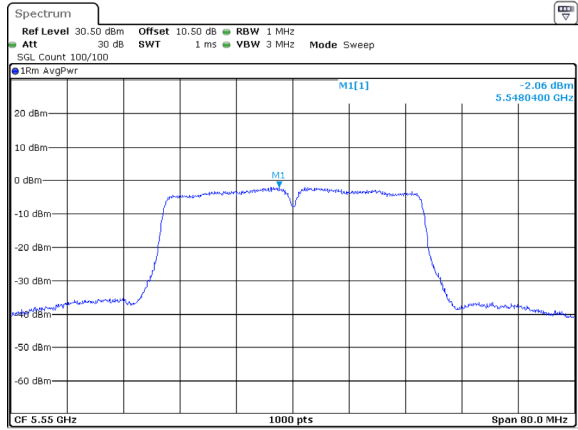
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802.11ac40_5510MHz



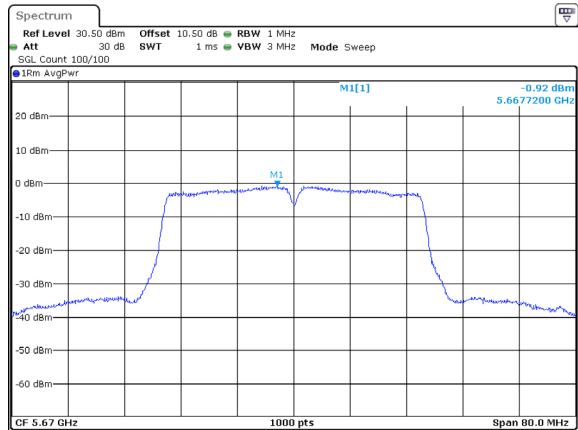
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Date: 20.JAN.2025 17:01:20

802.11ac40_5550MHz



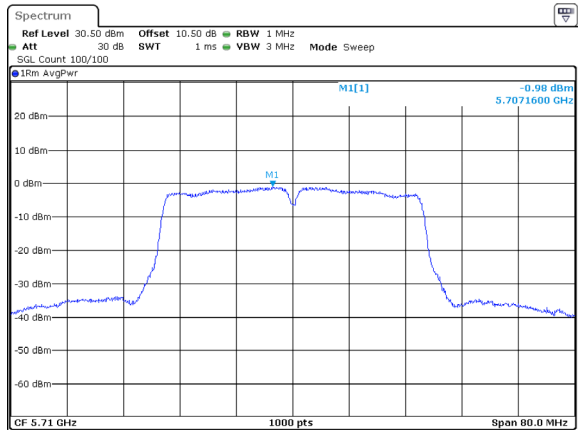
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Date: 20.JAN.2025 17:03:09

802.11ac40_5670MHz



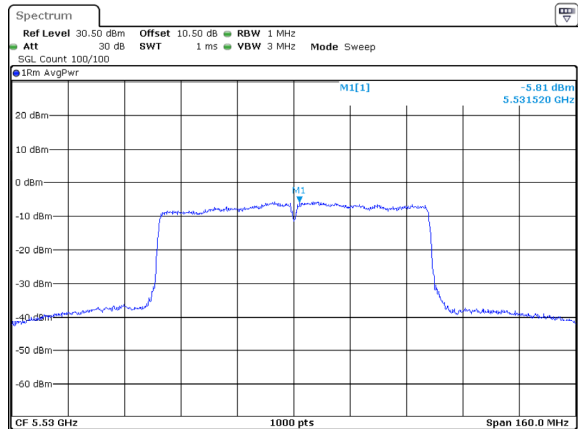
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802.11ac40_5710MHz



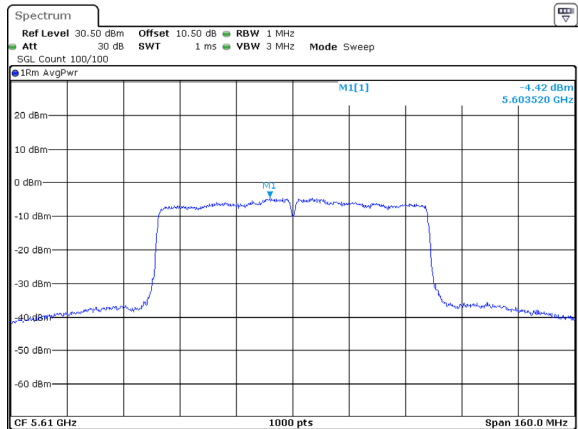
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802.11ac80_5530MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 17:13:33

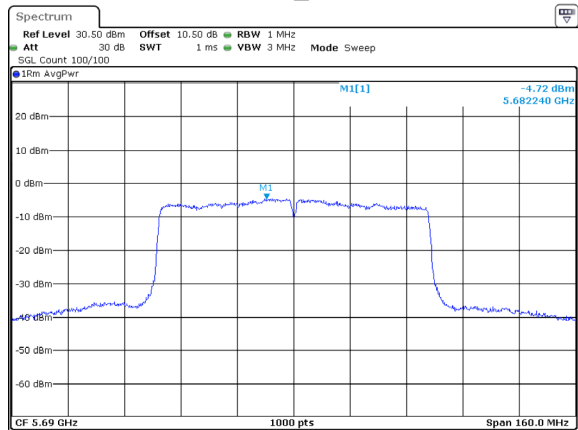
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ProjectNo.:2401Z46778E-RF Tester:Brian Li
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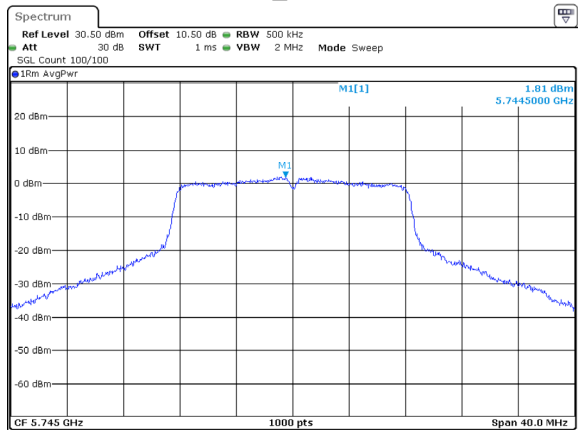
5725-5850MHz

802.11ac80_5690MHz



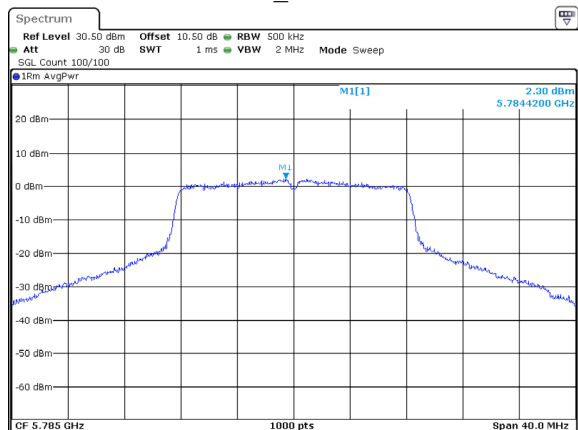
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802.11a_5745MHz



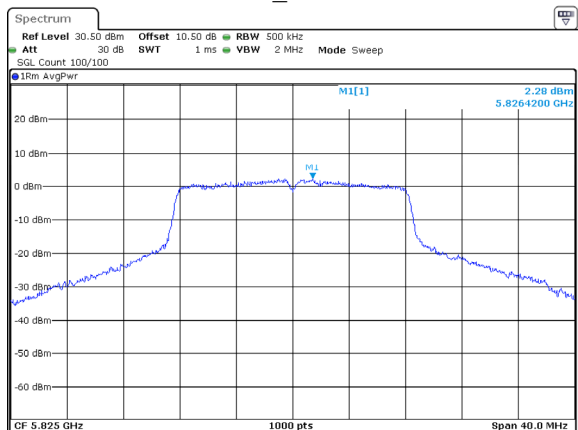
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Date: 23.DEC.2024 15:02:41

802.11a_5785MHz



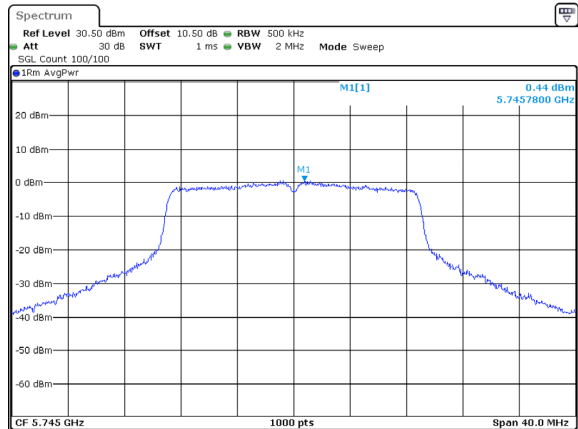
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802.11a_5825MHz



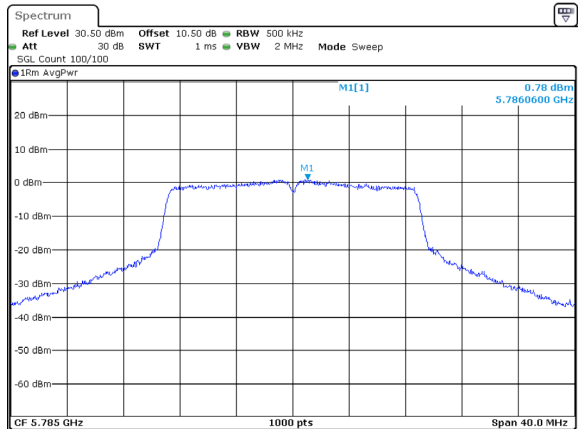
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Date: 23.DEC.2024 15:08:19

802.11ac20_5745MHz



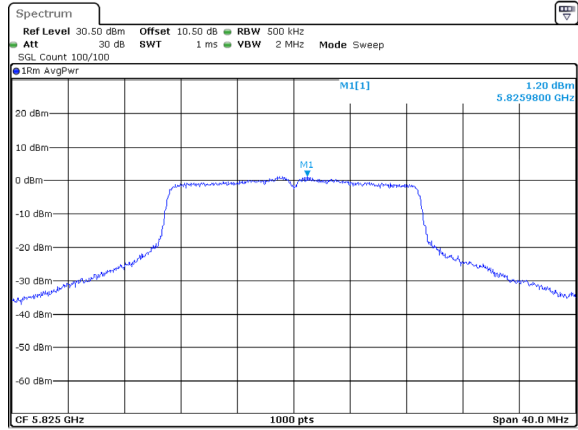
ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:39:06

802.11ac20_5785MHz



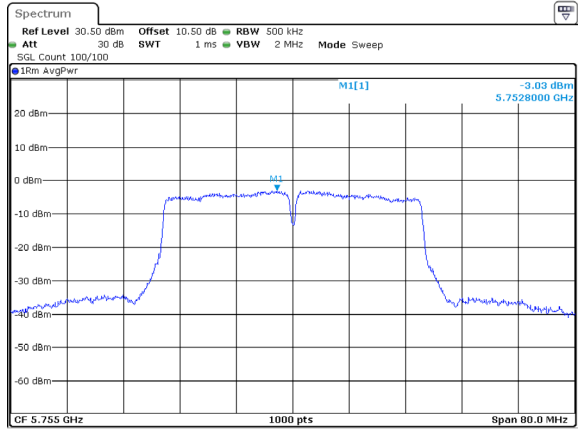
ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:40:31

802.11ac20_5825MHz



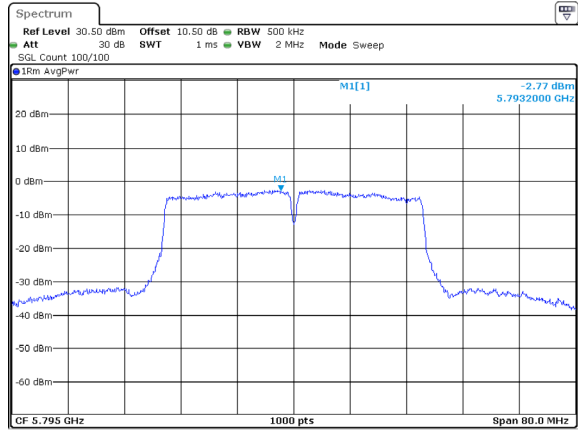
ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:41:00

802.11ac40_5755MHz



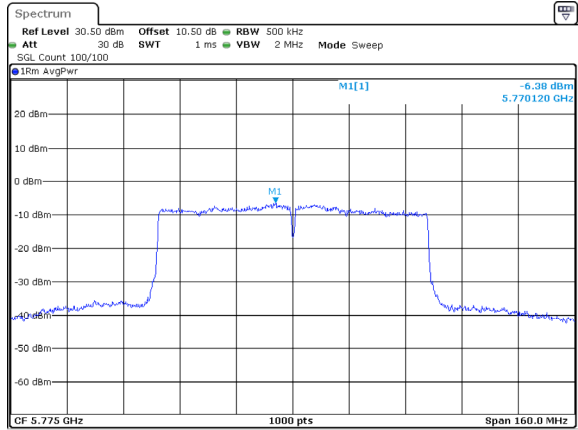
ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:57:27

802.11ac40_5795MHz



ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 15:58:27

802.11ac80_5775MHz



ProjectNo.:2401Z46778E-RF Tester:Cheeb Huang
Date: 23.DEC.2024 16:16:09

Duty Cycle**Test Information:**

Sample No.:	2V9A-3	Test Date:	2025/01/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	Brian Li	Test Result:	N/A

Environmental Conditions:

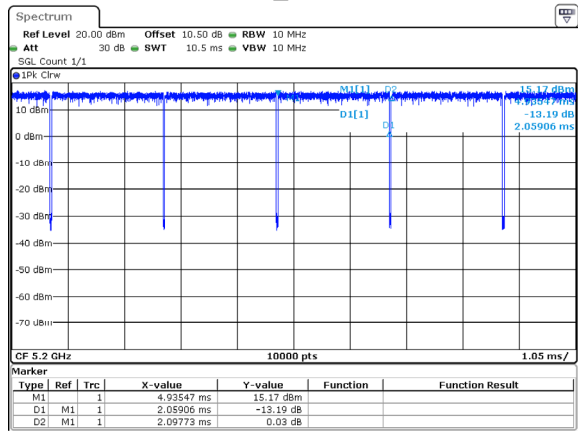
Temperature: (°C):	23.8-25.2	Relative Humidity: (%)	37-45	ATM Pressure: (kPa)	101.4-101.7
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Test Data:

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	2.059	2.098	98.14	/	/	0.010
802.11ac20	5200	1.916	1.955	98.01	/	/	0.010
802.11ac40	5190	0.947	0.984	96.24	0.17	1056	2
802.11ac80	5210	0.450	0.485	92.78	0.33	2222	3

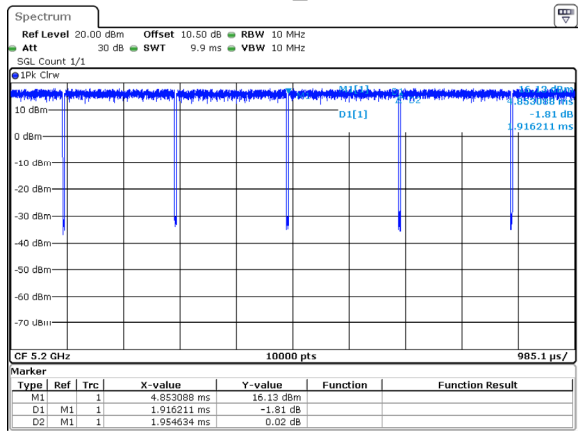
Duty Cycle = Ton/(Ton+Toff)*100%

802.11a_5200MHz



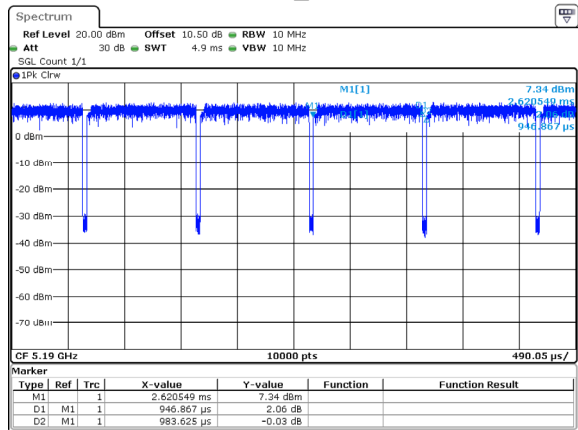
ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:15:04

802.11ac20_5200MHz



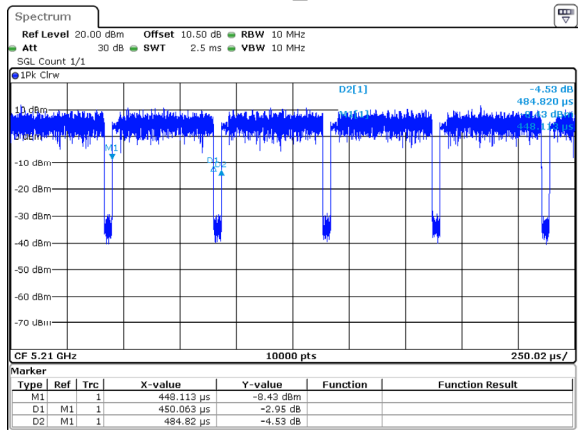
ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:16:17

802.11ac40_5190MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:17:13

802.11ac80_5210MHz



ProjectNo.:2401Z46778E-RF Tester:Brian Li
Date: 20.JAN.2025 15:18:59

RF EXPOSURE EVALUATION

MPE-Based Exemption

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:

General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

R is the minimum separation distance in meters

f = frequency in MHz

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Result**BT/Wi-Fi:**

Mode	Frequency (MHz)	Tune up conducted power [#] (dBm)	Antenna Gain [#]		ERP		Evaluation Distance (m)	ERP Limit (mW)
			(dBi)	(dBd)	(dBm)	(mW)		
BT	2402-2480	3.0	5.2	3.05	6.05	4.03	20	768
BLE	2402-2480	6.0	5.2	3.05	9.05	8.04	20	768
2.4G Wi-Fi	2412-2462	10.0	6.6	4.45	14.45	27.86	20	768
5G Wi-Fi	5180-5240	14.0	4.9	2.75	16.75	47.32	20	768
	5260-5320	12.5	4.6	2.45	14.95	31.26	20	768
	5500-5720	13.5	5.3	3.15	16.65	46.24	20	768
	5745-5825	15.5	5.2	3.05	18.55	71.61	20	768

Note: 1. The tune up conducted power and antenna gain was declared by the applicant.
 2. 0dBd=2.15dBi

NFC:

Mode	Frequency (MHz)	Maximum E-Field (dBuV/m@3m)	Maximum EIRP (dBm)	ERP		Evaluation Distance (cm)	ERP Limit (mW)
				(dBm)	(mW)		
NFC	13.56	70.43	-24.77	-26.92	0.002	20	751

Note: 1. EIRP = E-Field – 95.2 @3m, ERP = EIRP-2.15
 2. The NFC, BT and Wi-Fi can transmit at same time, the 2.4G and 5G Wi-Fi cannot transmit at same time

Simultaneous transmitting consideration (worst case):

The ratio= $ERP_{BLE}/limit + ERP_{5.8G\ Wi-Fi}/limit + ERP_{NFC}/limit = 8.04/768 + 71.61/768 + 0.002/751 = 0.104 < 1.0$

So simultaneous exposure is compliant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401Z46778E-RF External photo and 2401Z46778E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401Z46778E-RF-00B Test Setup photo.

******* END OF REPORT *******