

Test Information:

Sample No.:	2TEK-2	Test Date:	2024/11/14~2024/11/15
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	27.1-27.2	Relative Humidity: (%)	50-52	ATM Pressure: (kPa)	100.6-100.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2024/04/01	2025/03/31
Anritsu	Pulse Power Sensor	MA2411A	10780	2024/08/03	2025/08/02
Anritsu	Power Meter	ML2495A	1106009	2024/08/03	2025/08/02
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5180	20.251
		5200	20.300
		5240	20.402
802.11n20	Chain 0	5180	20.552
		5200	20.757
		5240	20.757
802.11n40	Chain 0	5190	41.100
		5230	41.100
802.11ac80	Chain 0	5210	82

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5260	20.351
		5280	20.300
		5320	20.502
802.11n20	Chain 0	5260	20.705
		5280	20.653
		5320	20.706
802.11n40	Chain 0	5270	41.100
		5310	41.400
802.11ac80	Chain 0	5290	81.600

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5500	20.604
		5580	20.501
		5700	20.452
		5720	20.601
802.11n20	Chain 0	5500	20.706
		5580	20.603

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11n20	Chain 0	5700	20.604
		5720	20.549
802.11n40	Chain 0	5510	41.400
		5550	41.100
		5670	41.500
		5710	41.300
802.11ac80	Chain 0	5530	82
		5610	81.800
		5690	81.600

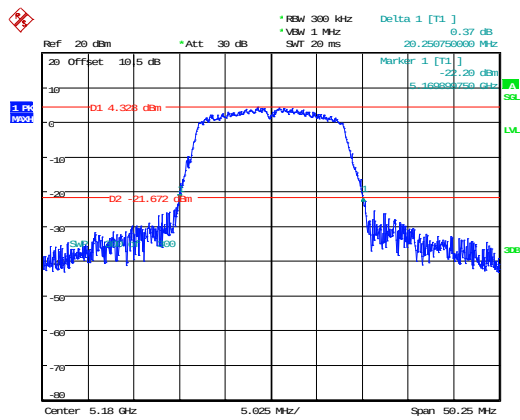
6dB Emission Bandwidth

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.450	0.5	Pass
		5785	16.450	0.5	Pass
		5825	16.450	0.5	Pass
802.11n20	Chain 0	5745	17.650	0.5	Pass
		5785	17.700	0.5	Pass
		5825	17.650	0.5	Pass
802.11n40	Chain 0	5755	36.300	0.5	Pass
		5795	36.200	0.5	Pass
802.11ac80	Chain 0	5775	76.800	0.5	Pass

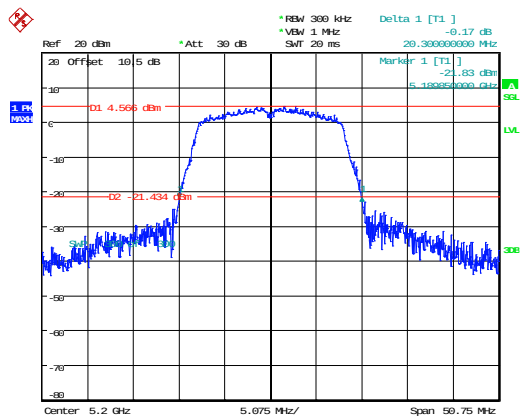
5150-5250MHz

802.11a_5180MHz 20.251MHz



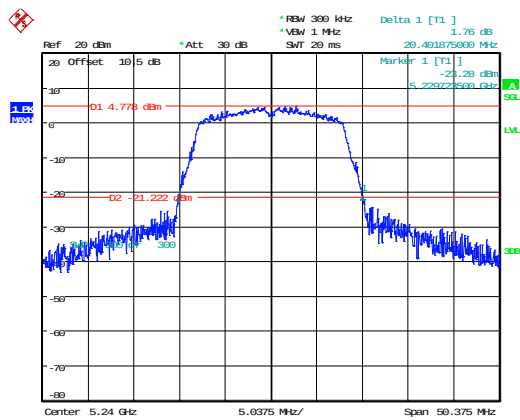
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Date: 14.NOV.2024 23:32:04

802.11a_5200MHz 20.300MHz



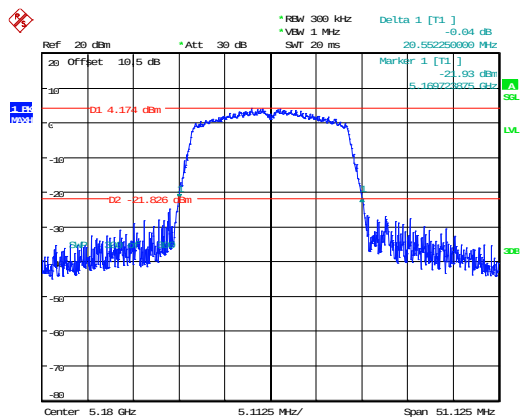
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802.11a_5240MHz 20.402MHz



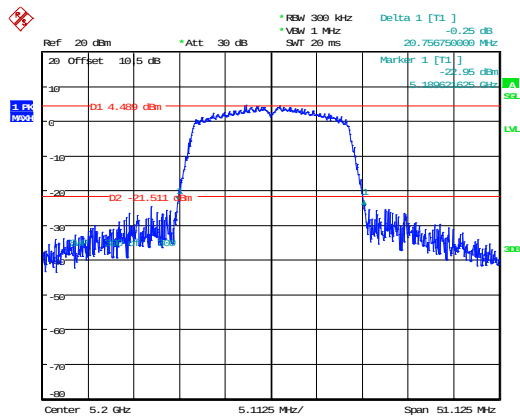
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802.11n20_5180MHz 20.552MHz



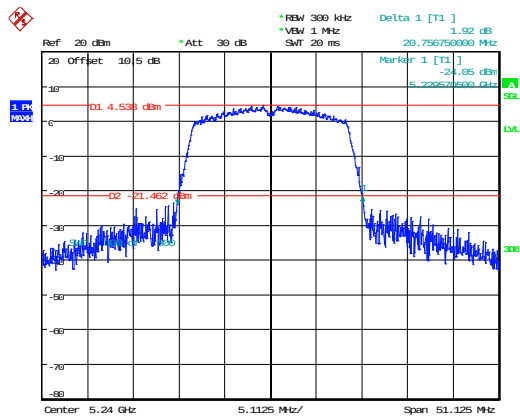
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802.11n20_5200MHz 20.757MHz



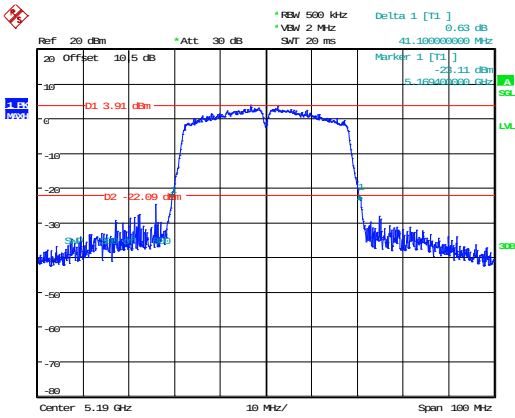
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802.11n20_5240MHz 20.757MHz



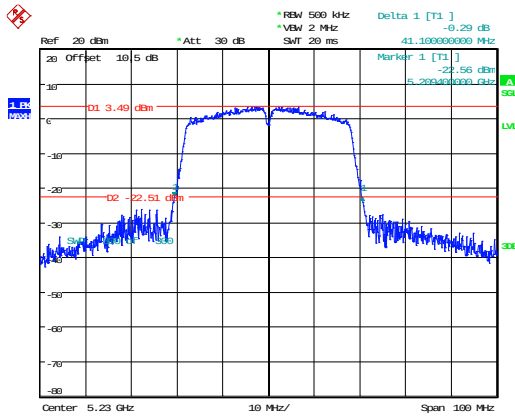
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802.11n40_5190MHz 41.100MHz



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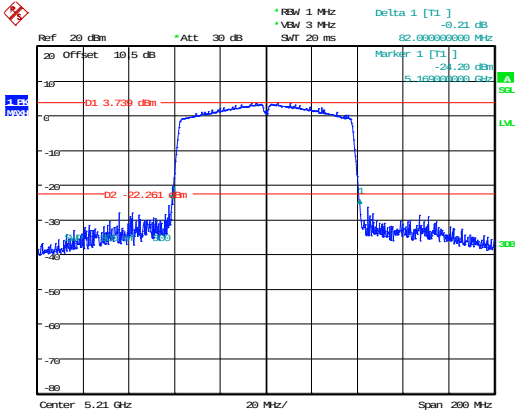
802.11n40_5230MHz 41.100MHz



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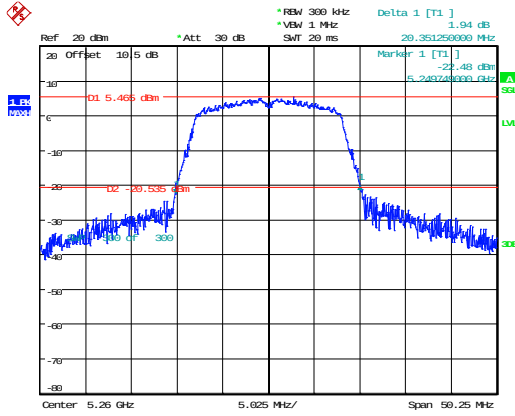
5250-5350MHz

802.11ac80_5210MHz 82MHz



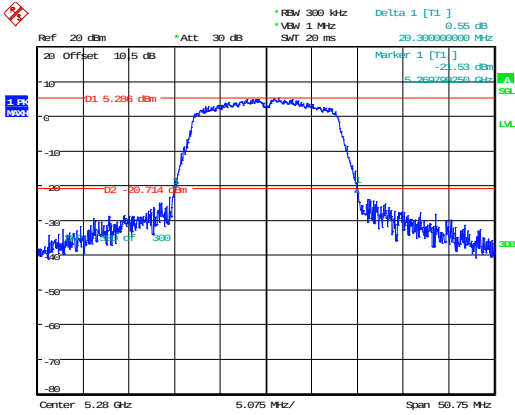
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802.11a_5260MHz 20.351MHz



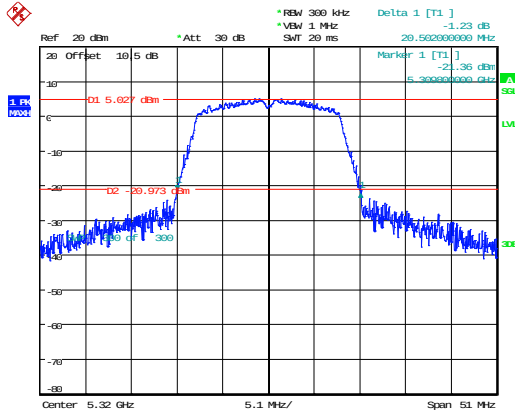
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802.11a_5280MHz 20.300MHz



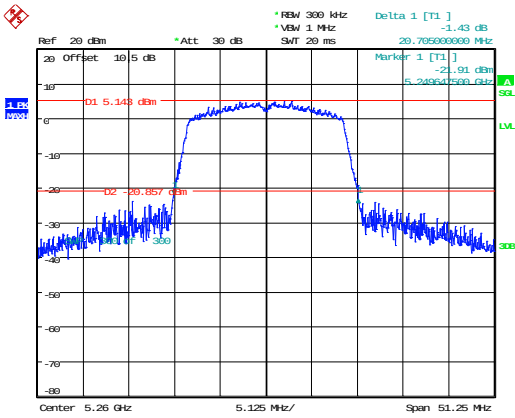
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802.11a_5320MHz 20.502MHz



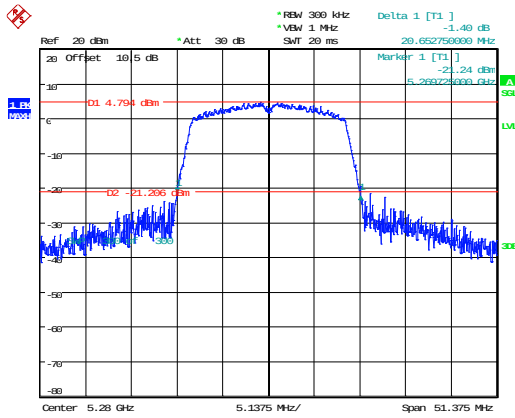
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802.11n20_5260MHz 20.705MHz



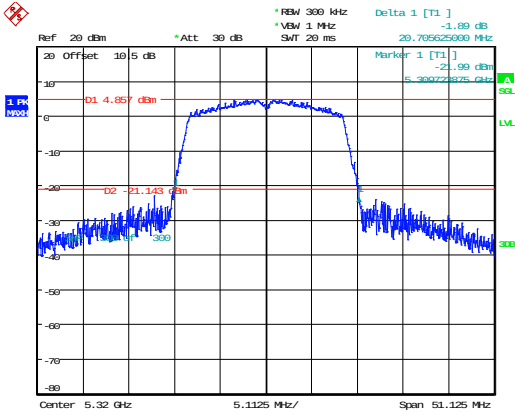
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802.11n20_5280MHz 20.653MHz



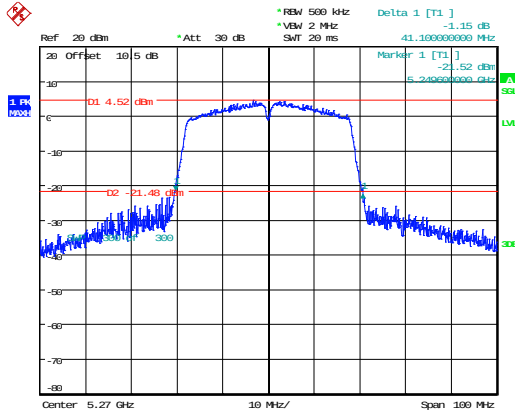
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802.11n20_5320MHz 20.706MHz



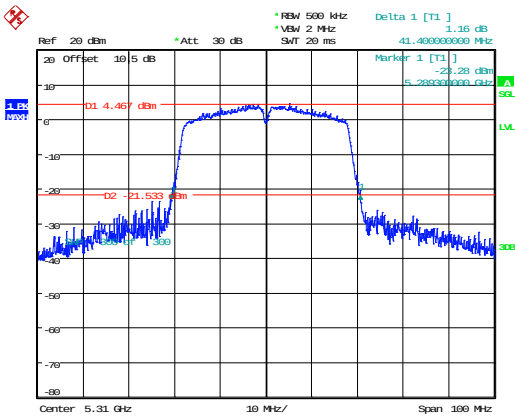
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802.11n40_5270MHz 41.100MHz



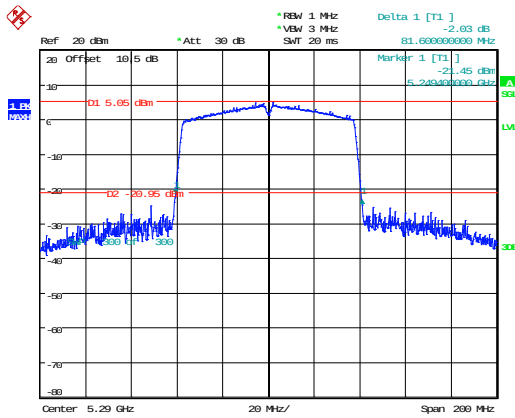
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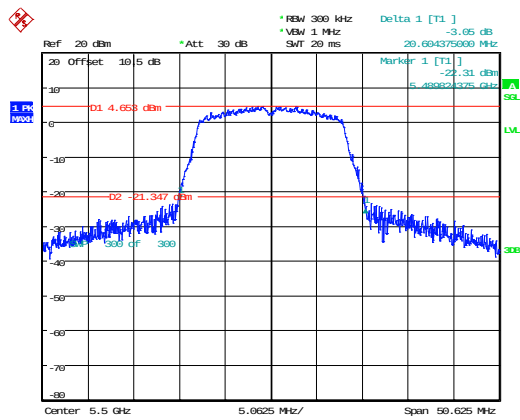
802.11ac80_5290MHz 81.600MHz



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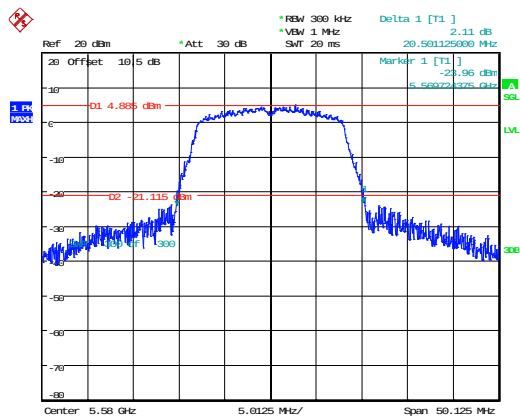
5470-5725MHz

802.11a_5500MHz 20.604MHz



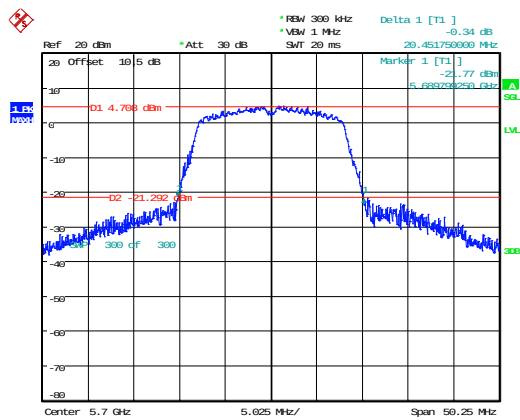
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802.11a_5580MHz 20.501MHz



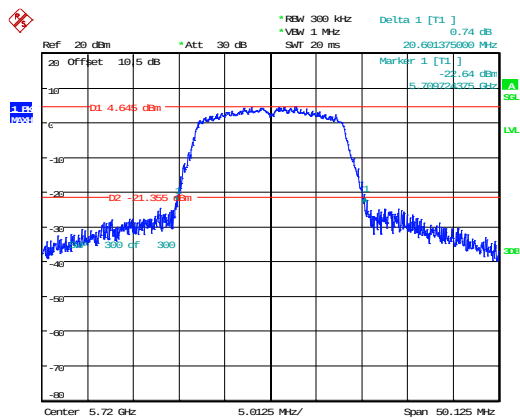
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802.11a_5700MHz 20.452MHz



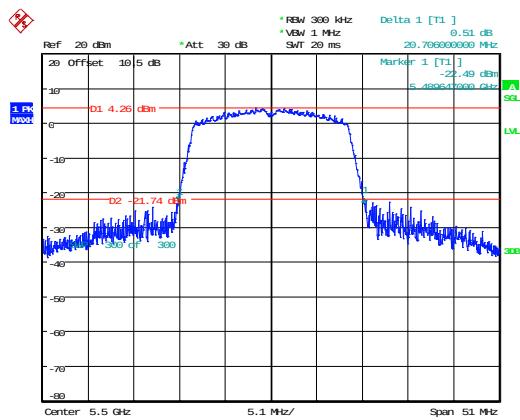
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802.11a_5720MHz 20.601MHz



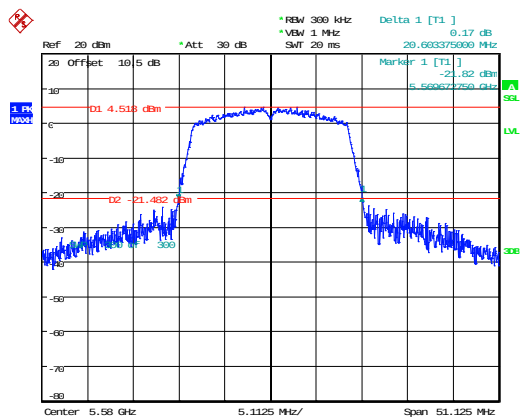
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802.11n20_5500MHz 20.706MHz



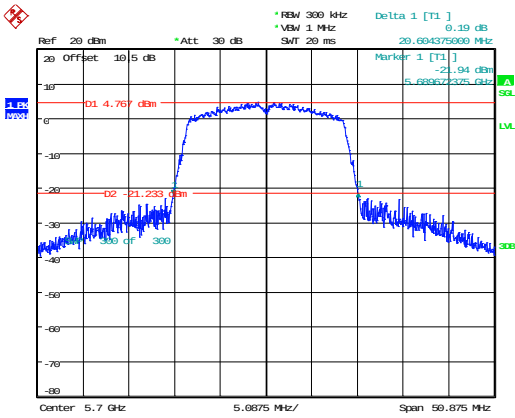
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802.11n20_5580MHz 20.603MHz



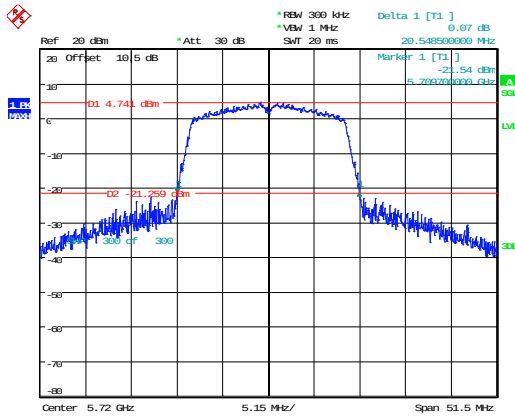
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802.11n20_5700MHz 20.604MHz



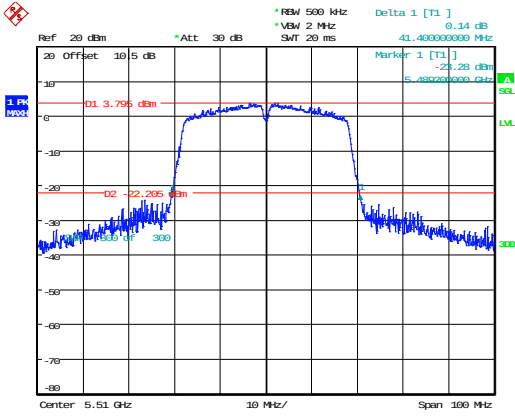
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802.11n20_5720MHz 20.549MHz



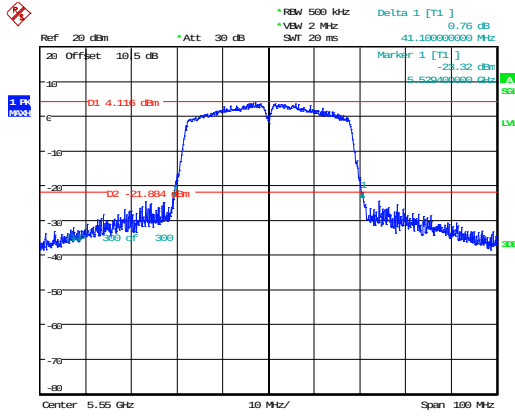
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802.11n40_5510MHz 41.400MHz



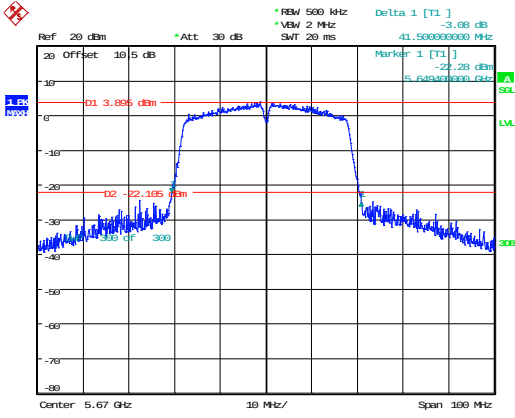
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802.11n40_5550MHz 41.100MHz



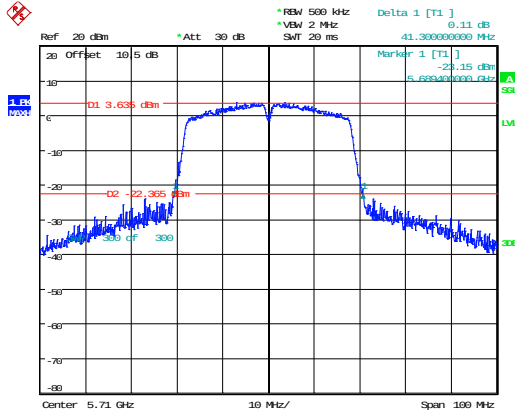
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802.11n40_5670MHz 41.500MHz



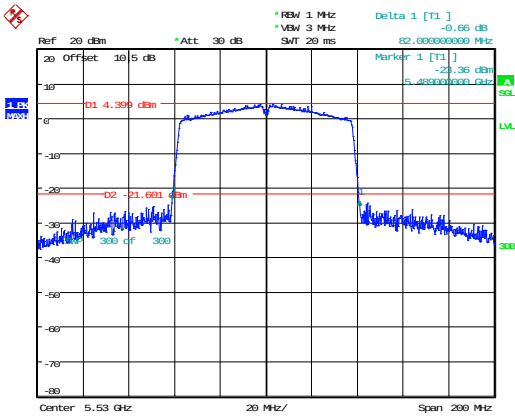
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802.11n40_5710MHz 41.300MHz



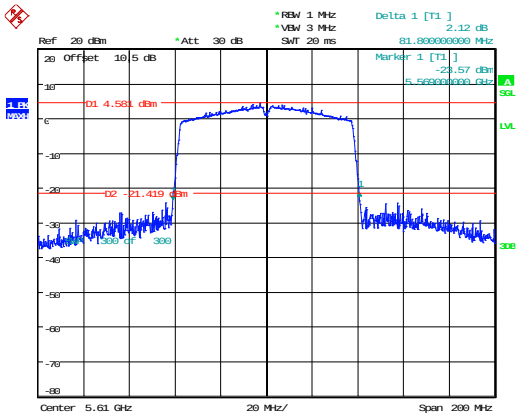
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802.11ac80_5530MHz 82MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
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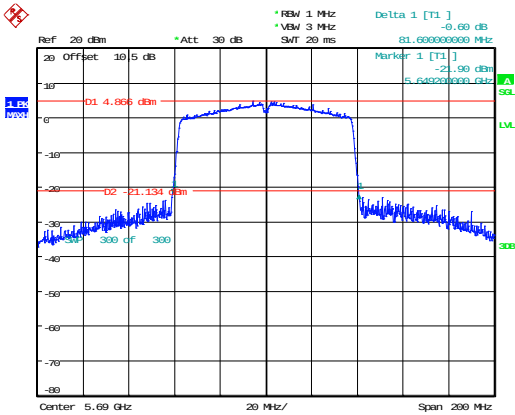
802.11ac80_5610MHz 81.800MHz



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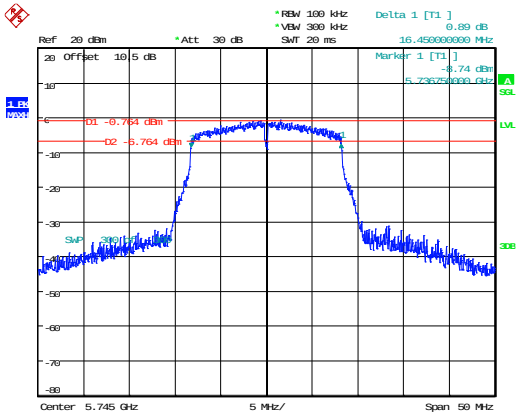
5725-5850MHz

802.11ac80_5690MHz 81.600MHz



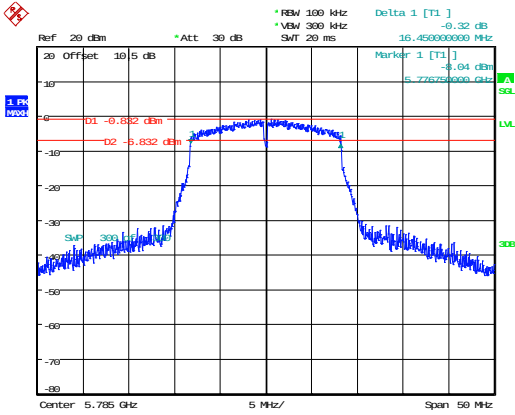
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802.11a_5745MHz 16.450MHz



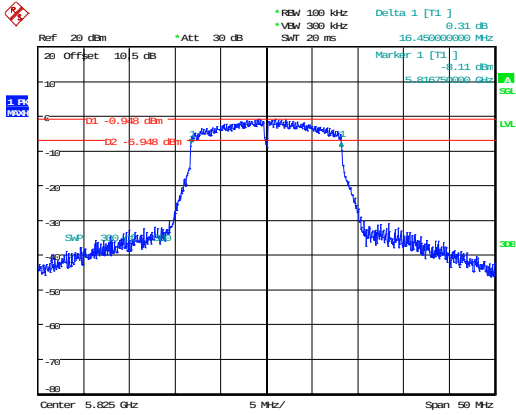
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802.11a_5785MHz 16.450MHz



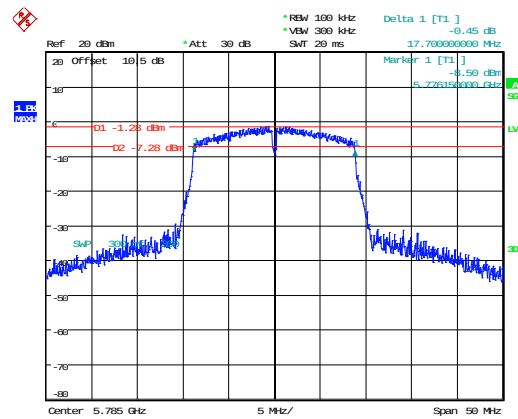
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802.11a_5825MHz 16.450MHz



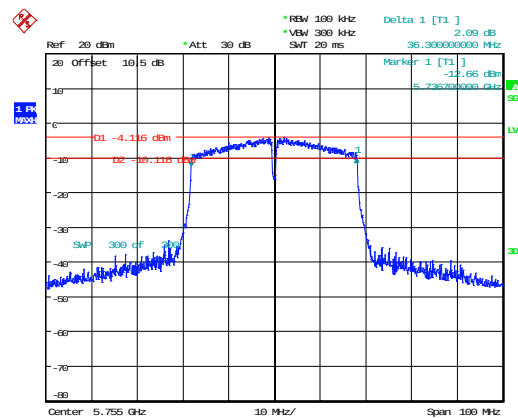
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802.11n20_5785MHz 17.700MHz



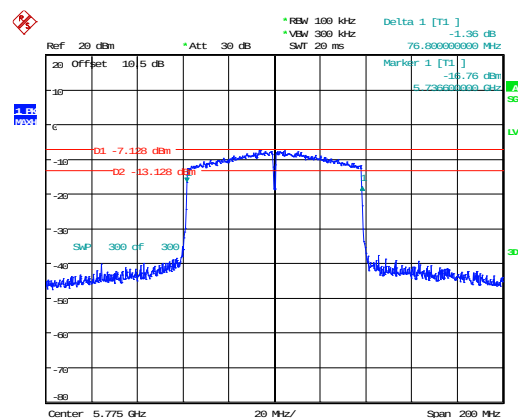
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802.11n40_5755MHz 36.300MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:24:50

802.11ac80_5775MHz 76.800MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:58:51

99% Occupied Bandwidth**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.600
		5200	16.550
		5240	16.600
802.11n20	Chain 0	5180	17.600
		5200	17.650
		5240	17.600
802.11n40	Chain 0	5190	36.200
		5230	36.200
802.11ac80	Chain 0	5210	75.200

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	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5260	16.600
		5280	16.600
		5320	16.500
802.11n20	Chain 0	5260	17.600
		5280	17.600
		5320	17.600
802.11n40	Chain 0	5270	36.200
		5310	36.200
802.11ac80	Chain 0	5290	75.200

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5500	16.600
		5580	16.600
		5700	16.600
		5720	16.600
802.11n20	Chain 0	5500	17.650

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11n20	Chain 0	5580	17.600
		5700	17.650
		5720	17.600
802.11n40	Chain 0	5510	36.300
		5550	36.200
		5670	36.300
		5710	36.200
802.11ac80	Chain 0	5530	75.200
		5610	75.400
		5690	75.400

5725-5850MHz

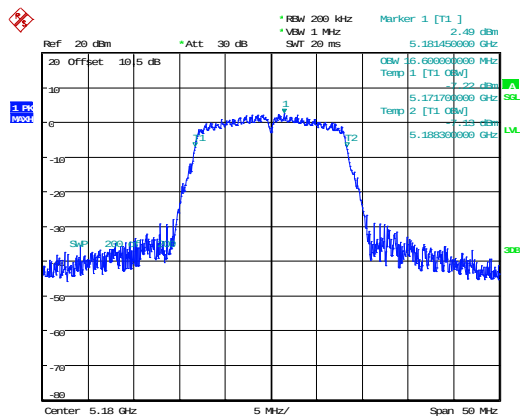
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	16.600
		5785	16.600
		5825	16.600
802.11n20	Chain 0	5745	17.650
		5785	17.700
		5825	17.700
802.11n40	Chain 0	5755	36.300
		5795	36.200
802.11ac80	Chain 0	5775	75.400

Note:

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

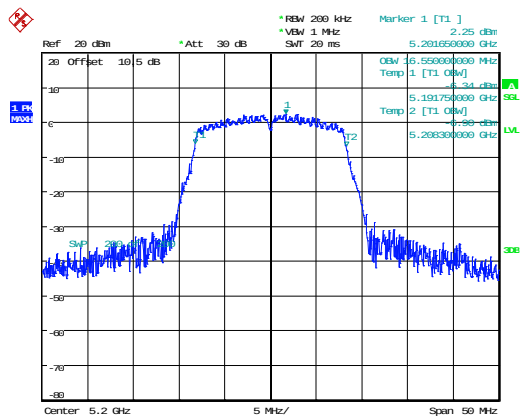
5150-5250MHz

802.11a_5180MHz 16.600MHz



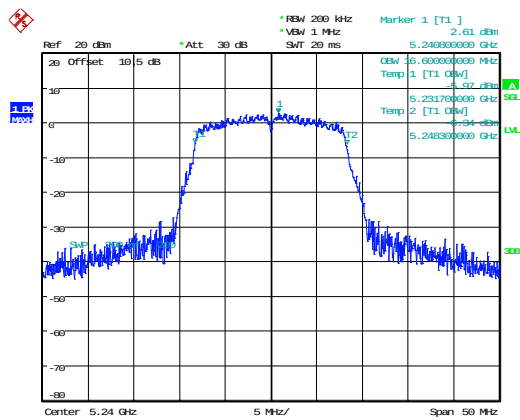
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802.11a_5200MHz 16.550MHz



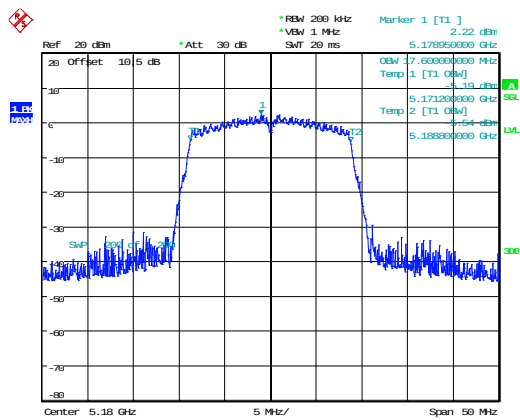
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802.11a_5240MHz 16.600MHz



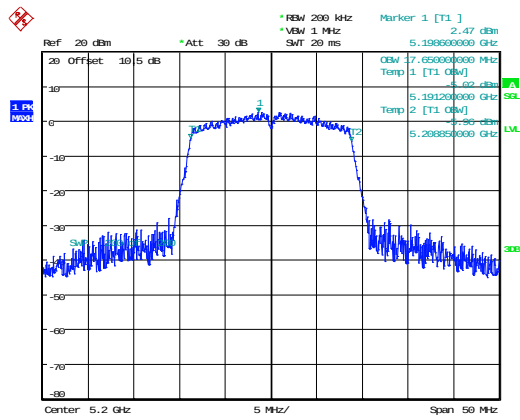
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802.11n20_5180MHz 17.600MHz



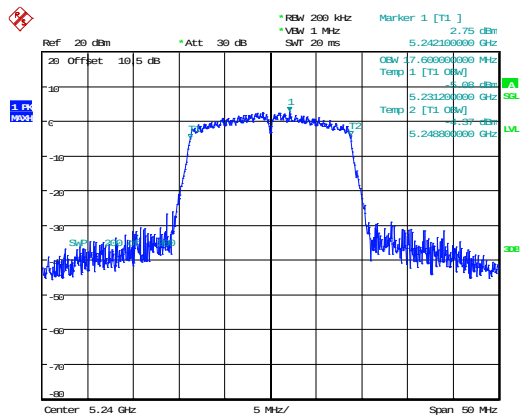
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802.11n20_5200MHz 17.650MHz



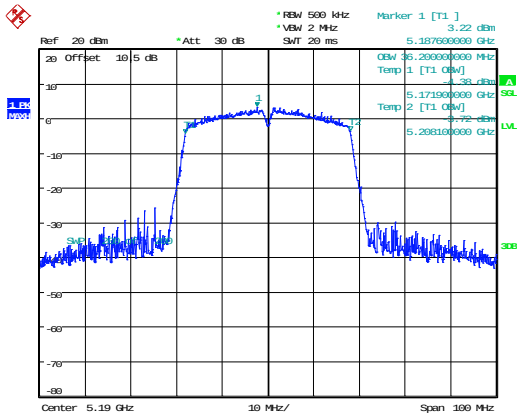
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802.11n20_5240MHz 17.600MHz



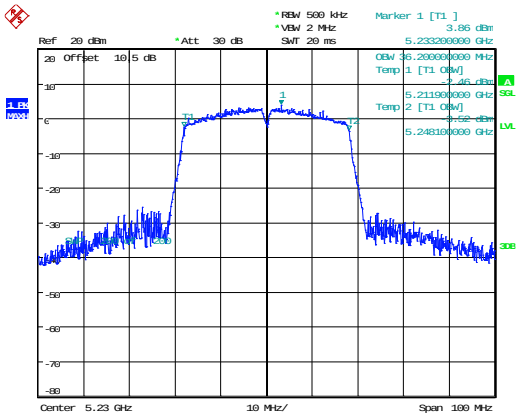
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802.11n40_5190MHz 36.200MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
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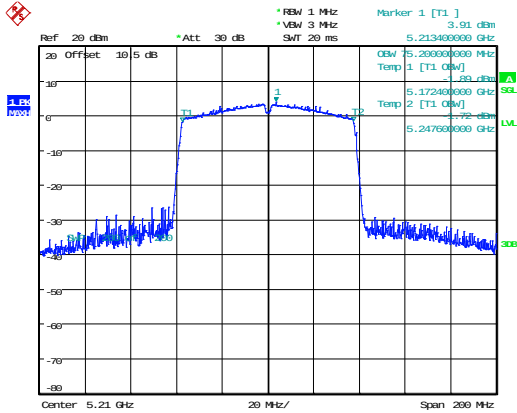
802.11n40_5230MHz 36.200MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:07:19

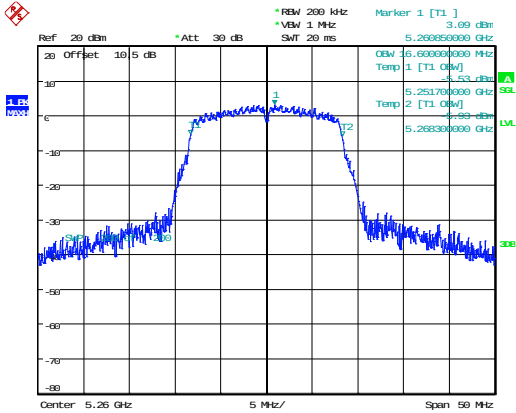
5250-5350MHz

802.11ac80_5210MHz 75.200MHz



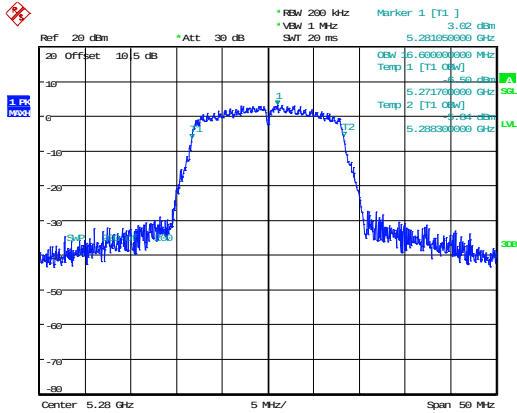
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802.11a_5260MHz 16.600MHz



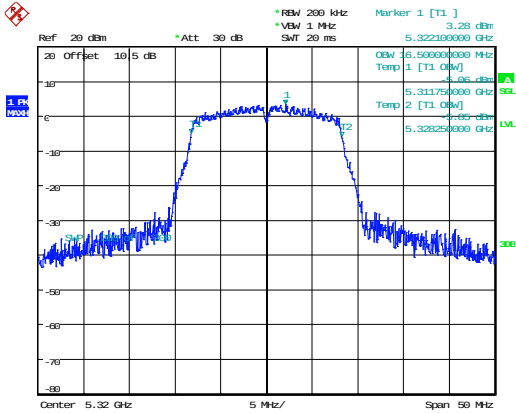
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Date: 14.NOV.2024 23:41:12

802.11a_5280MHz 16.600MHz



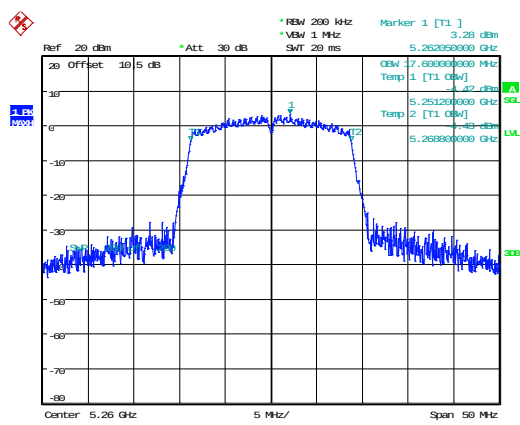
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802.11a_5320MHz 16.500MHz



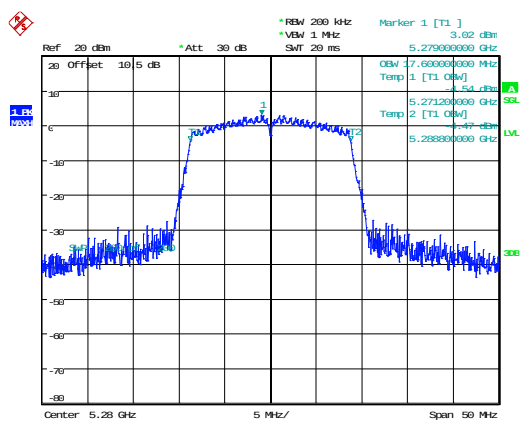
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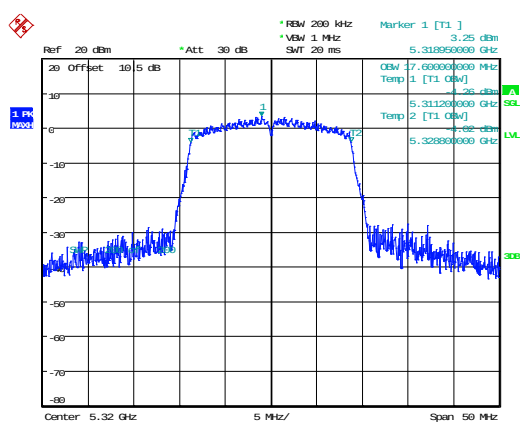
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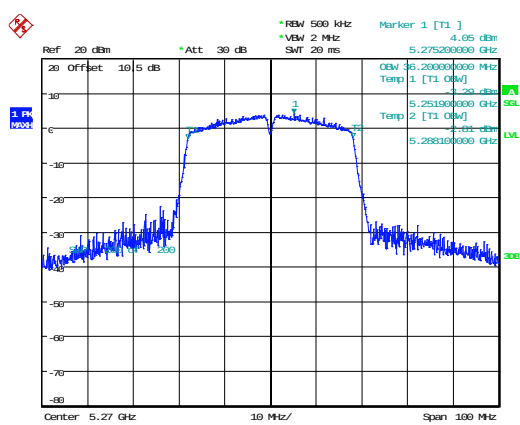
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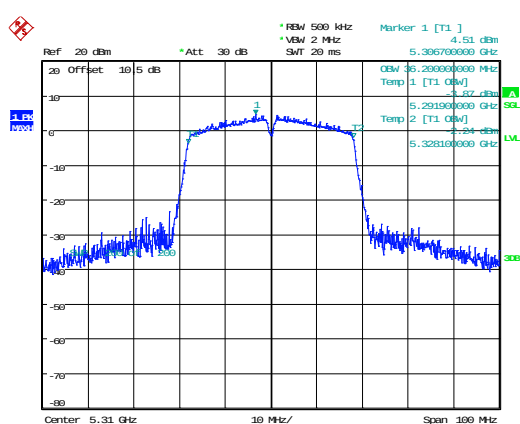
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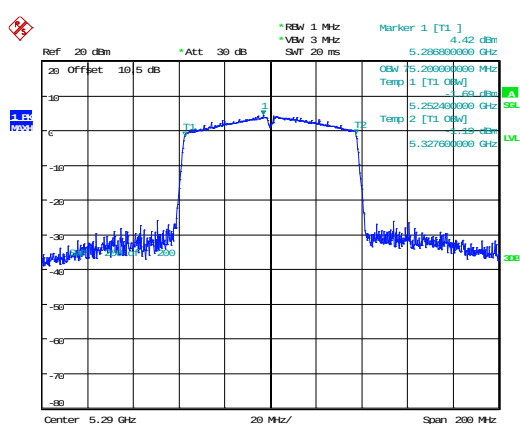
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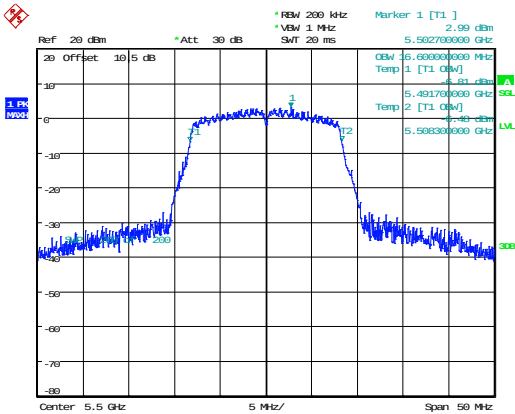
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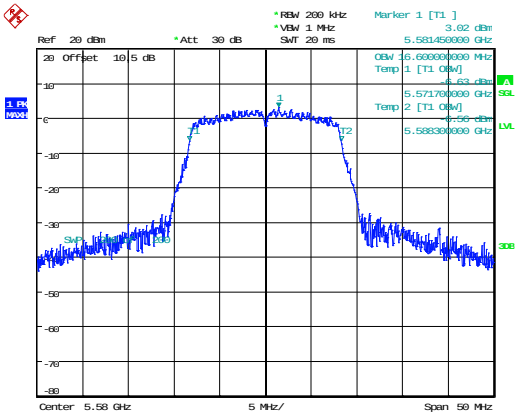
5470-5725MHz

802.11a_5500MHz 16.600MHz



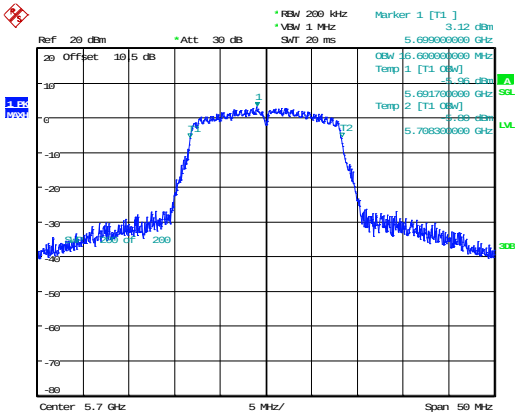
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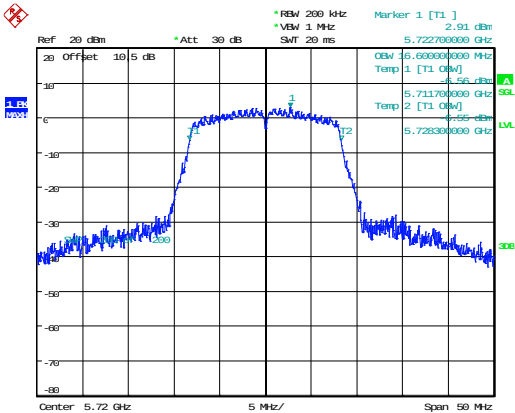
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802.11a_5700MHz 16.600MHz



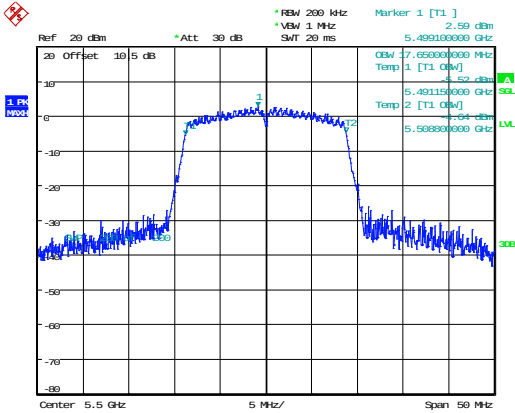
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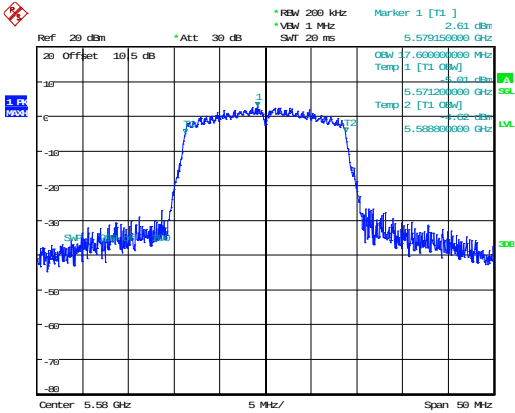
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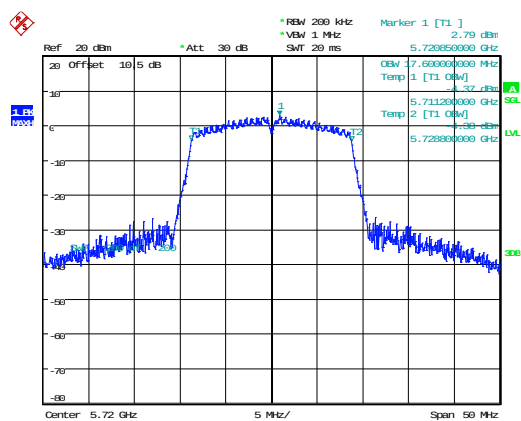
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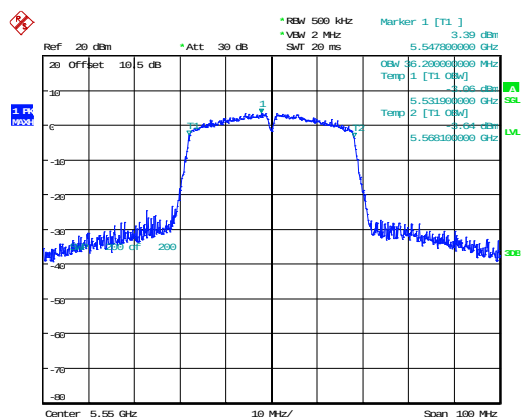
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802.11n20_5720MHz 17.600MHz



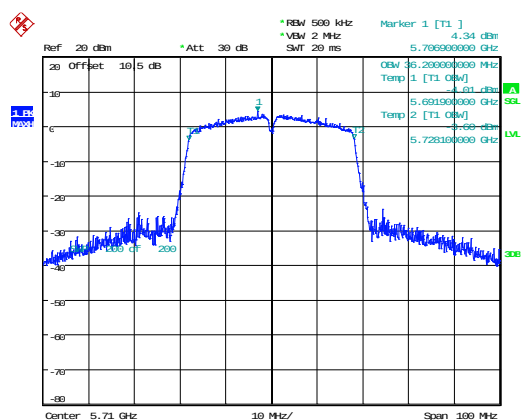
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802.11n40 5550MHz 36.200MHz



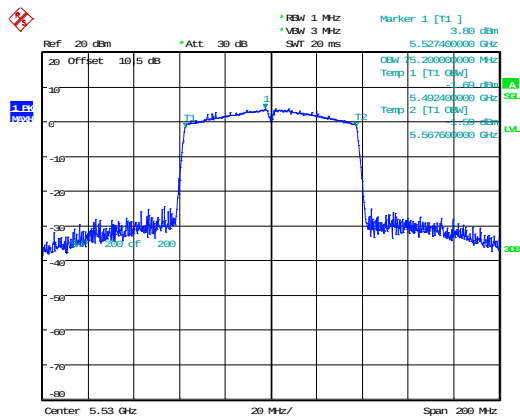
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802.11n40 5710MHz 36.200MHz



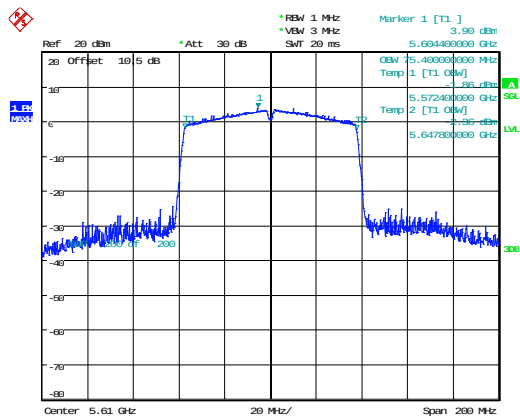
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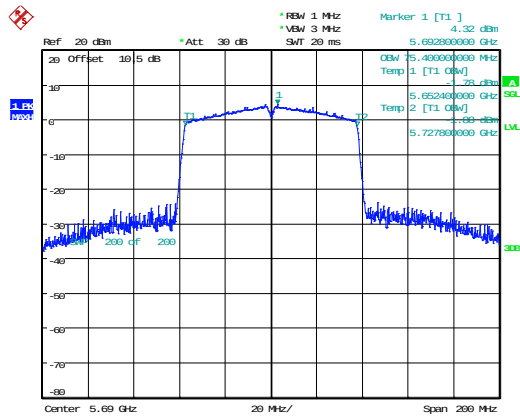
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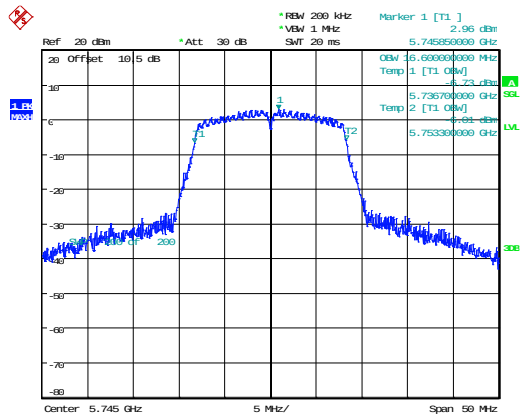
5725-5850MHz

802.11ac80_5690MHz 75.400MHz



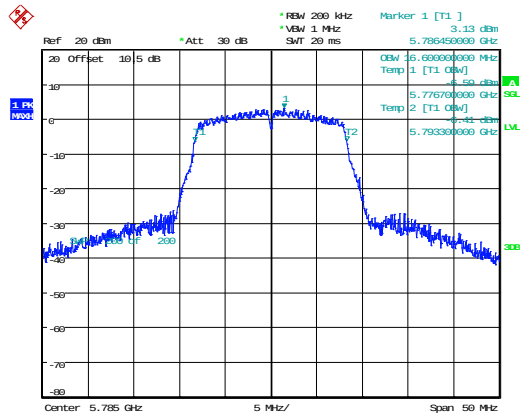
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802.11a_5745MHz 16.600MHz



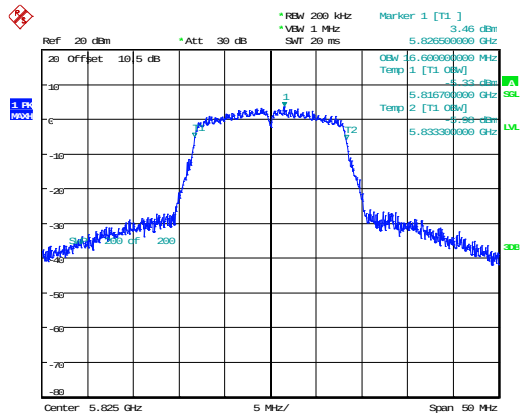
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802.11a_5785MHz 16.600MHz



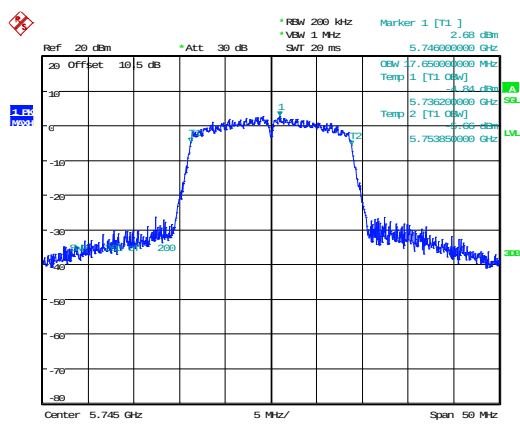
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802.11a_5825MHz 16.600MHz



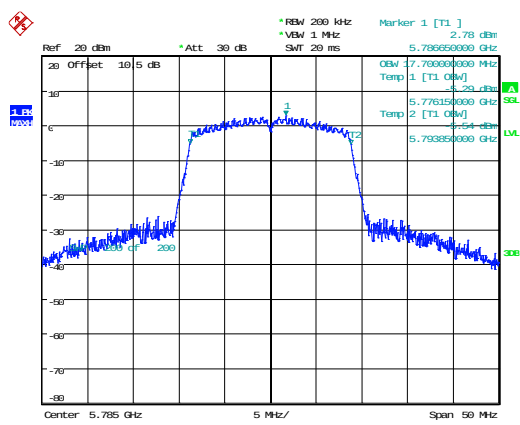
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802.11n20_5745MHz 17.650MHz



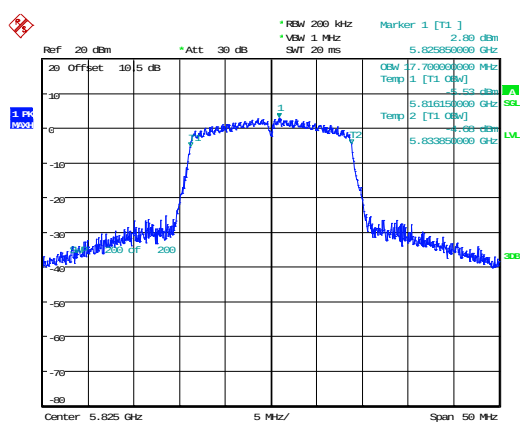
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802.11n20_5785MHz 17.700MHz



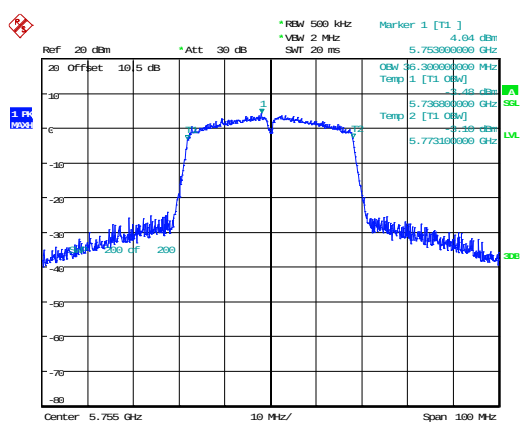
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802.11n20_5825MHz 17.700MHz



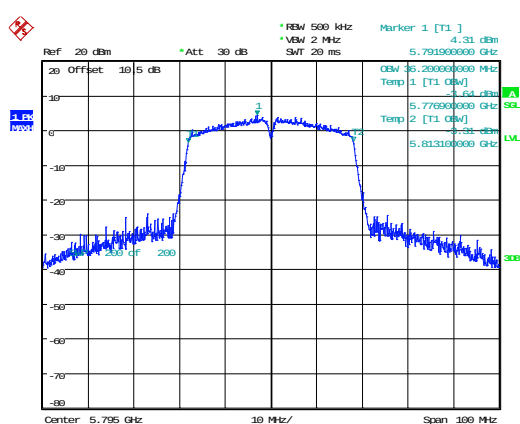
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802.11n40_5755MHz 36.300MHz



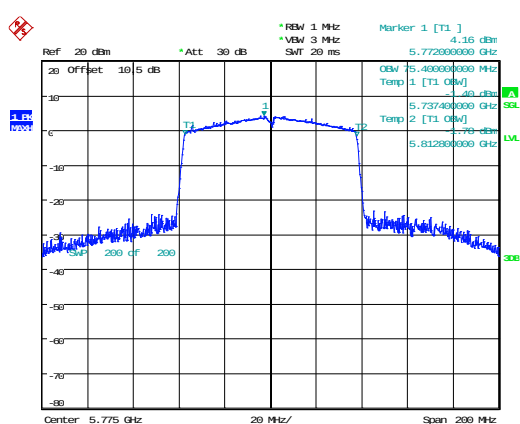
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802.11n40_5795MHz 36.200MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:28:17

802.11ac80_5775MHz 75.400MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:59:39

Maximum Conducted Output Power**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	11.24	24	Pass
		5200	11.35	24	Pass
		5240	11.49	24	Pass
802.11n20	Chain 0	5180	10.97	24	Pass
		5200	11.5	24	Pass
		5240	11.45	24	Pass
802.11n40	Chain 0	5190	10.8	24	Pass
		5230	11.32	24	Pass
802.11ac80	Chain 0	5210	10.95	24	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5260	12.06	24	Pass
		5280	12.15	24	Pass
		5320	12.17	24	Pass
802.11n20	Chain 0	5260	11.95	24	Pass
		5280	11.94	24	Pass
		5320	12.11	24	Pass
802.11n40	Chain 0	5270	11.88	24	Pass
		5310	11.88	24	Pass
802.11ac80	Chain 0	5290	11.49	24	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5500	11.76	24	Pass
		5580	11.68	24	Pass
		5700	11.91	24	Pass
		5720	11.62	24	Pass
802.11n20	Chain 0	5500	11.65	24	Pass
		5580	11.6	24	Pass
		5700	11.72	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5720	11.64	24	Pass
802.11n40	Chain 0	5510	11.48	24	Pass
		5550	11.42	24	Pass
		5670	11.32	24	Pass
		5710	11.48	24	Pass
802.11ac80	Chain 0	5530	11.19	24	Pass
		5610	11.02	24	Pass
		5690	11.4	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	11.98	30	Pass
		5785	11.92	30	Pass
		5825	12.09	30	Pass
802.11n20	Chain 0	5745	11.77	30	Pass
		5785	11.89	30	Pass
		5825	11.98	30	Pass
802.11n40	Chain 0	5755	11.71	30	Pass
		5795	11.62	30	Pass
802.11ac80	Chain 0	5775	11.61	30	Pass

Power Spectral Density**5150-5250MHz**

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5180	1.06	0	1.06	11	Pass
		5200	1.17	0	1.17	11	Pass
		5240	1.33	0	1.33	11	Pass
802.11n20	Chain 0	5180	0.60	0	0.60	11	Pass
		5200	1.14	0	1.14	11	Pass
		5240	1.08	0	1.08	11	Pass
802.11n40	Chain 0	5190	-2.42	0	-2.42	11	Pass
		5230	-1.79	0	-1.79	11	Pass
802.11ac80	Chain 0	5210	-5.53	0	-5.53	11	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5260	1.87	0	1.87	11	Pass
		5280	2.01	0	2.01	11	Pass
		5320	1.99	0	1.99	11	Pass
802.11n20	Chain 0	5260	1.57	0	1.57	11	Pass
		5280	1.57	0	1.57	11	Pass
		5320	1.70	0	1.70	11	Pass
802.11n40	Chain 0	5270	-1.33	0	-1.33	11	Pass
		5310	-1.28	0	-1.28	11	Pass
802.11ac80	Chain 0	5290	-4.90	0	-4.90	11	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5500	1.51	0	1.51	11	Pass
		5580	1.46	0	1.46	11	Pass
		5700	1.73	0	1.73	11	Pass
		5720	1.40	0	1.40	11	Pass

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11n20	Chain 0	5500	1.17	0	1.17	11	Pass
		5580	1.21	0	1.21	11	Pass
		5700	1.31	0	1.31	11	Pass
		5720	1.24	0	1.24	11	Pass
802.11n40	Chain 0	5510	-1.76	0	-1.76	11	Pass
		5550	-1.77	0	-1.77	11	Pass
		5670	-1.97	0	-1.97	11	Pass
		5710	-1.68	0	-1.68	11	Pass
802.11ac80	Chain 0	5530	-5.28	0	-5.28	11	Pass
		5610	-5.42	0	-5.42	11	Pass
		5690	-5.03	0	-5.03	11	Pass

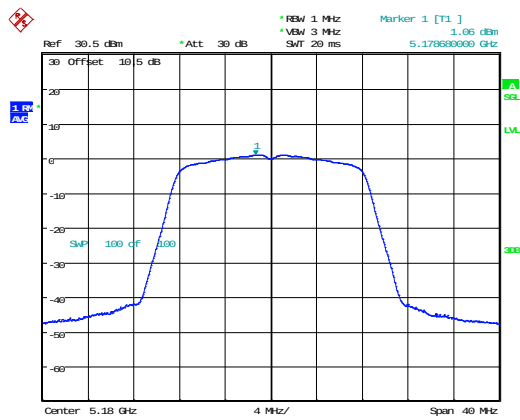
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	Chain 0	5745	-1.10	0	-1.10	30	Pass
		5785	-1.13	0	-1.13	30	Pass
		5825	-1.01	0	-1.01	30	Pass
802.11n20	Chain 0	5745	-1.50	0	-1.50	30	Pass
		5785	-1.41	0	-1.41	30	Pass
		5825	-1.35	0	-1.35	30	Pass
802.11n40	Chain 0	5755	-4.52	0	-4.52	30	Pass
		5795	-4.53	0	-4.53	30	Pass
802.11ac80	Chain 0	5775	-7.98	0	-7.98	30	Pass

Result = Reading + Duty Cycle Factor

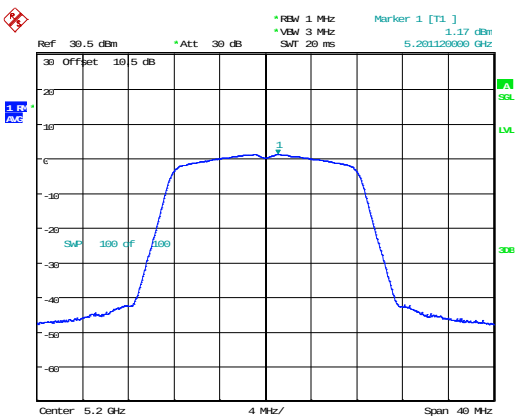
5150-5250MHz

802.11a_5180MHz



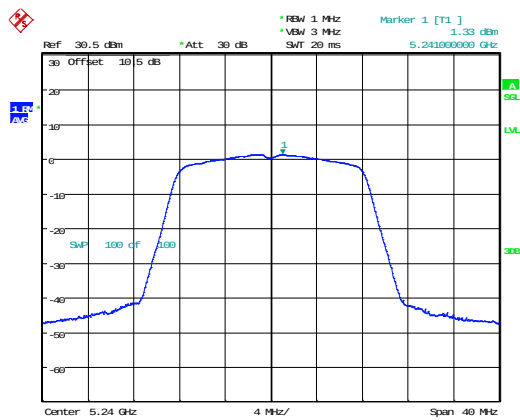
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802.11a_5200MHz



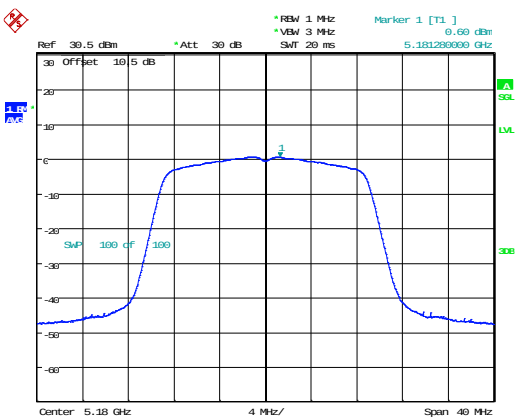
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802.11a_5240MHz



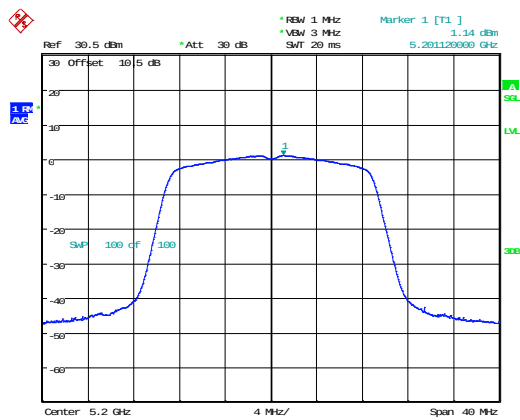
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802.11n20_5180MHz



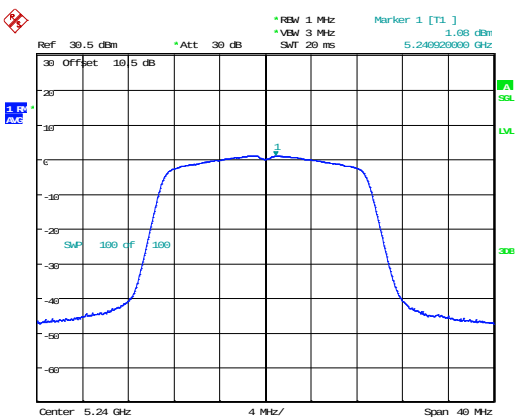
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802.11n20_5200MHz



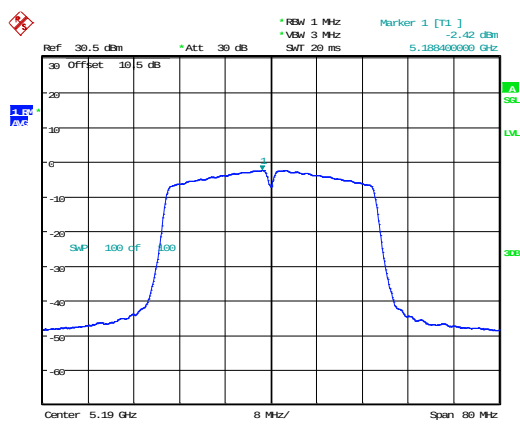
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802.11n20_5240MHz



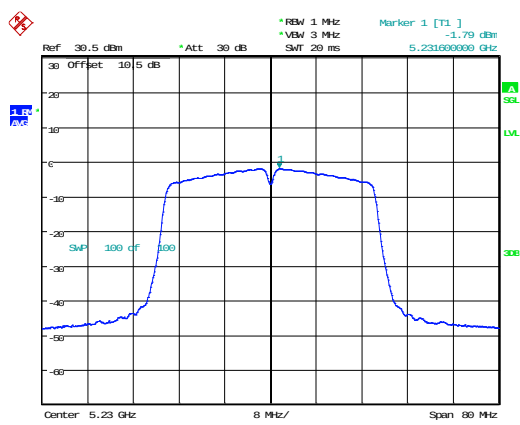
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802.11n40_5190MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
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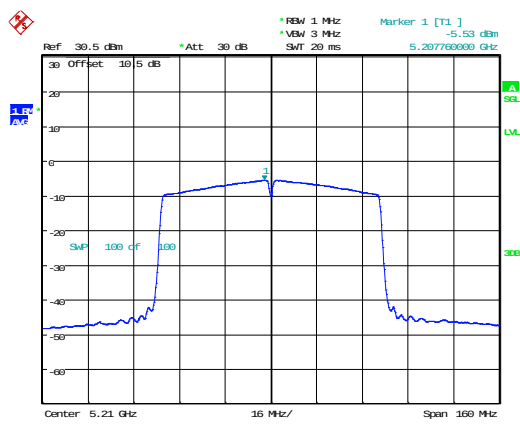
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ProjectNo.:2403Y36748E-RF Tester:Chin Qin
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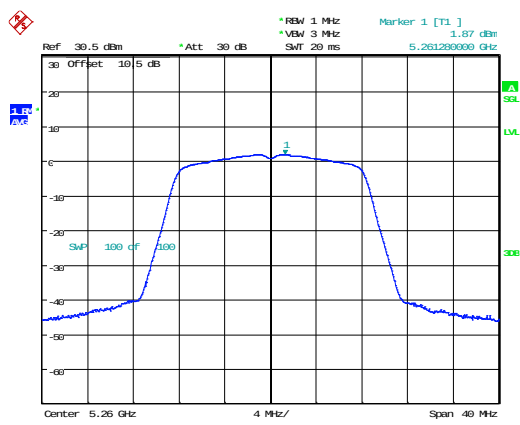
5250-5350MHz

802.11ac80_5210MHz



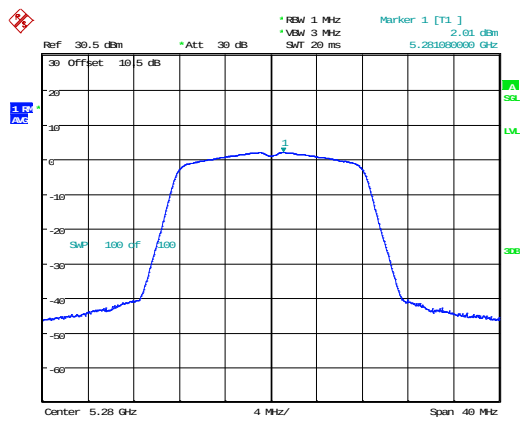
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802.11a_5260MHz



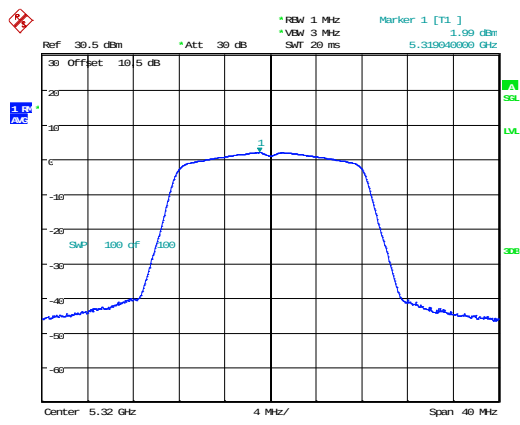
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802.11a_5280MHz



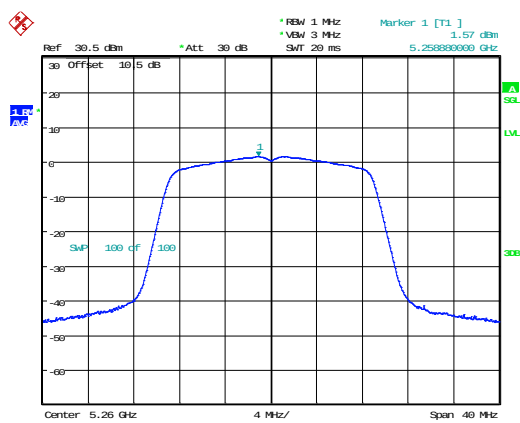
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802.11a_5320MHz



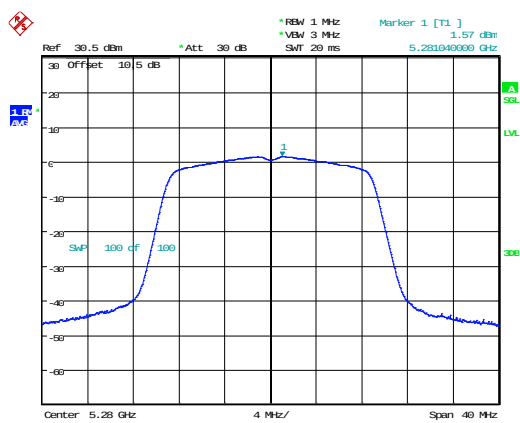
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802.11n20_5260MHz



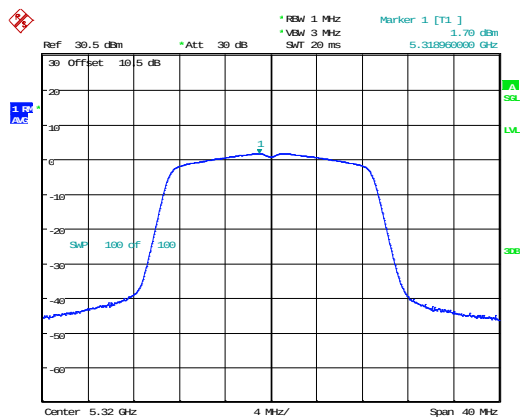
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Date: 15.NOV.2024 00:27:06

802.11n20_5280MHz



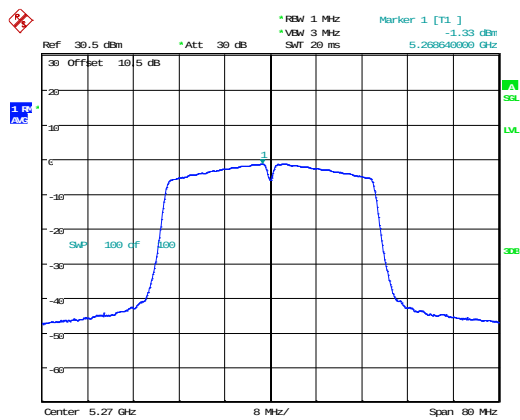
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 15.NOV.2024 00:30:03

802.11n20_5320MHz



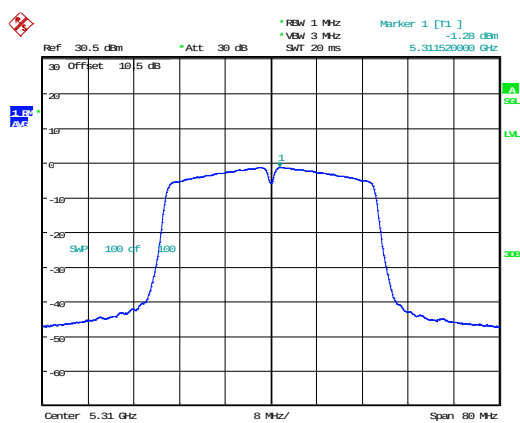
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Date: 15.NOV.2024 00:32:32

802.11n40_5270MHz



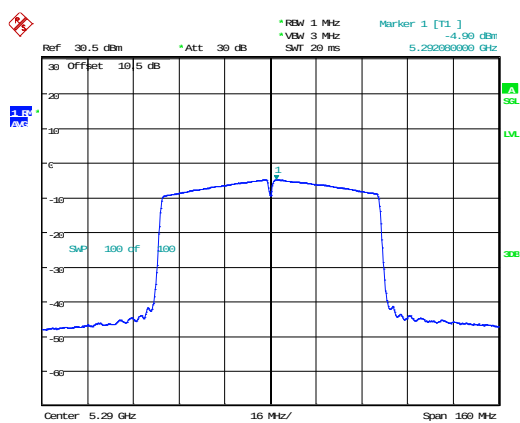
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:10:59

802.11n40_5310MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:13:28

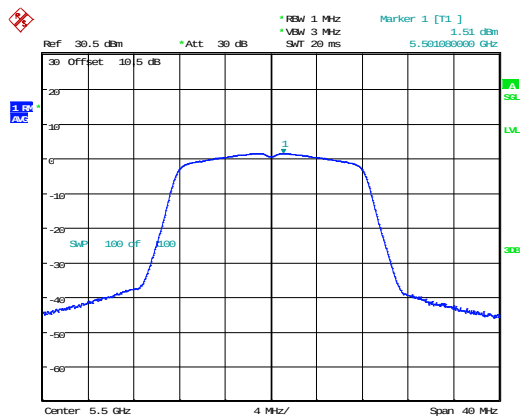
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ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:49:09

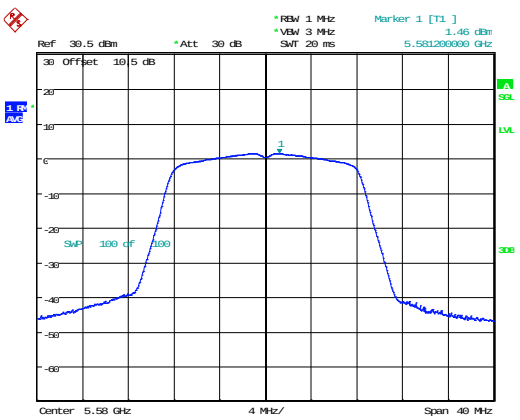
5470-5725MHz

802.11a_5500MHz



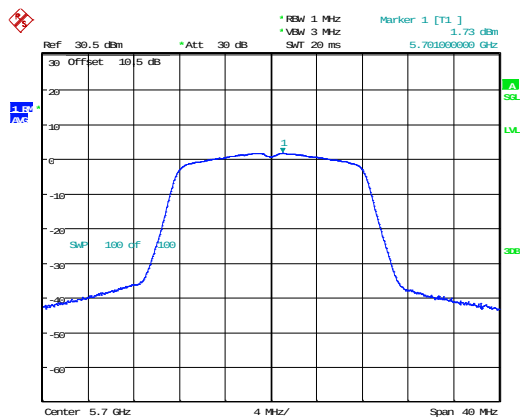
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Date: 14.NOV.2024 23:51:51

802.11a_5580MHz



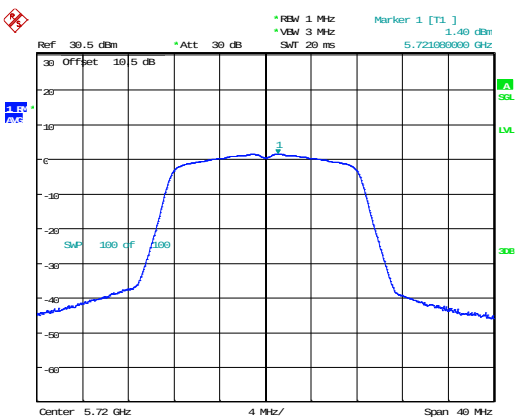
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Date: 14.NOV.2024 23:57:26

802.11a_5700MHz



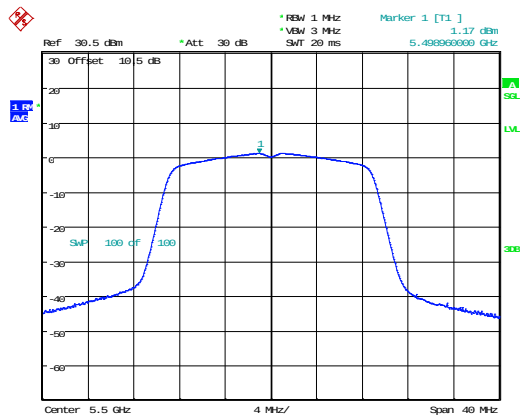
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802.11a_5720MHz



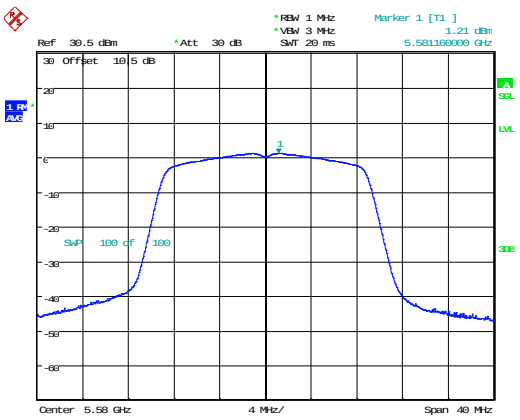
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Date: 15.NOV.2024 00:05:17

802.11n20_5500MHz



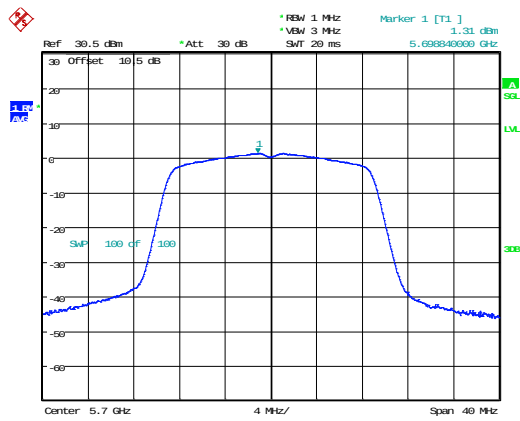
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Date: 15.NOV.2024 00:35:36

802.11n20_5580MHz



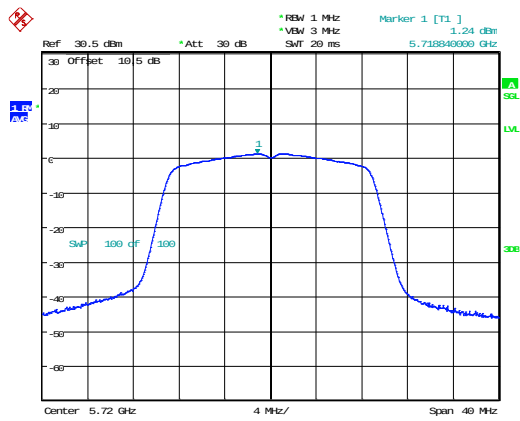
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802.11n20_5700MHz



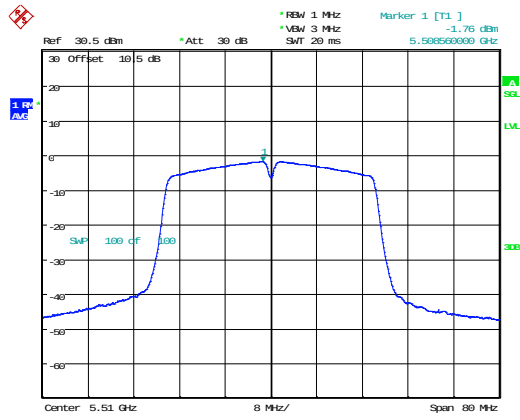
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Date: 15.NOV.2024 00:41:20

802.11n20_5720MHz



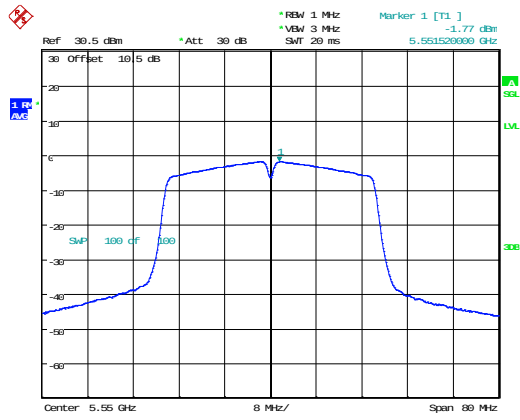
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 15.NOV.2024 00:44:18

802.11n40_5510MHz



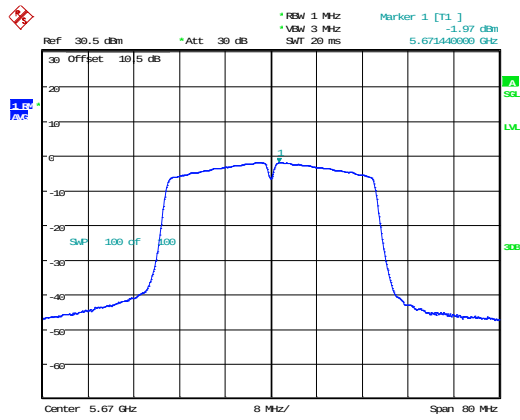
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Date: 14.NOV.2024 23:15:59

802.11n40_5550MHz



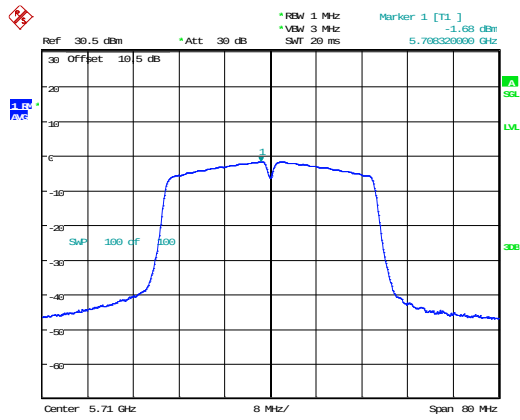
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Date: 14.NOV.2024 23:18:38

802.11n40_5670MHz



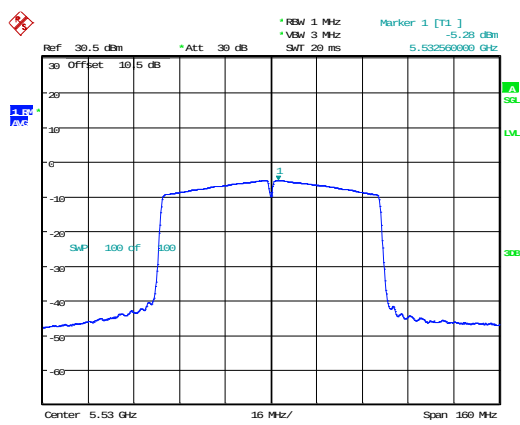
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Date: 14.NOV.2024 23:21:06

802.11n40_5710MHz



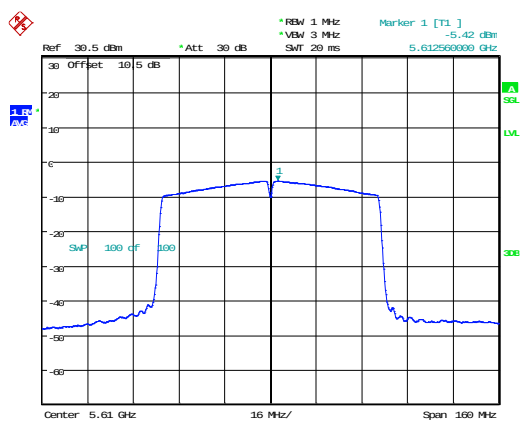
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:23:44

802.11ac80_5530MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:52:19

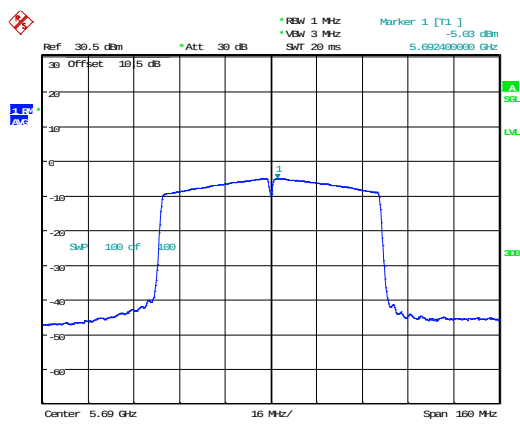
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ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:55:02

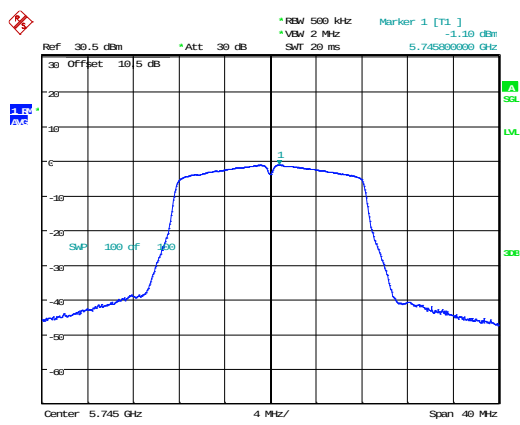
5725-5850MHz

802.11ac80_5690MHz



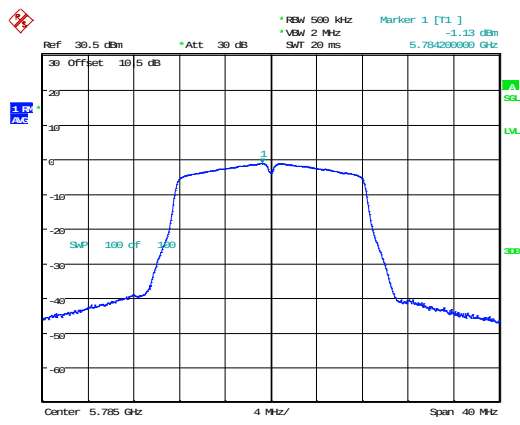
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Date: 14.NOV.2024 22:57:48

802.11a_5745MHz



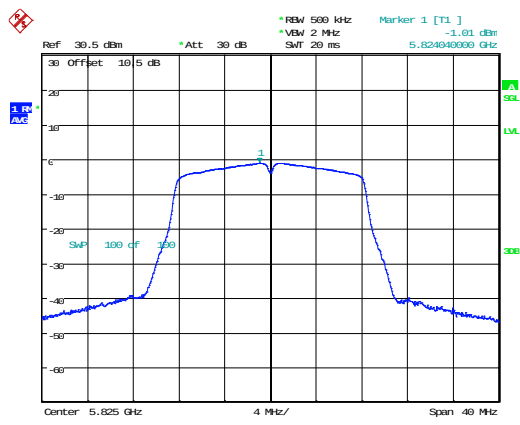
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Date: 15.NOV.2024 00:08:13

802.11a_5785MHz



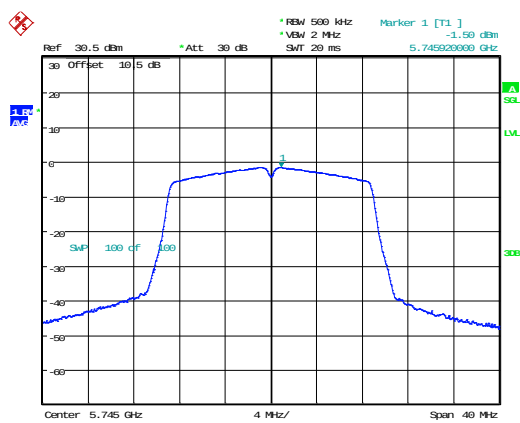
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 15.NOV.2024 00:10:28

802.11a_5825MHz



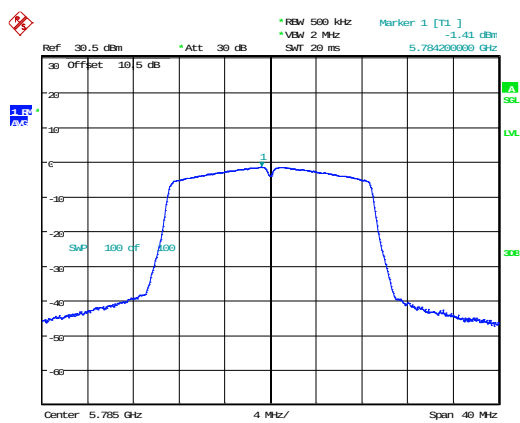
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802.11n20_5745MHz



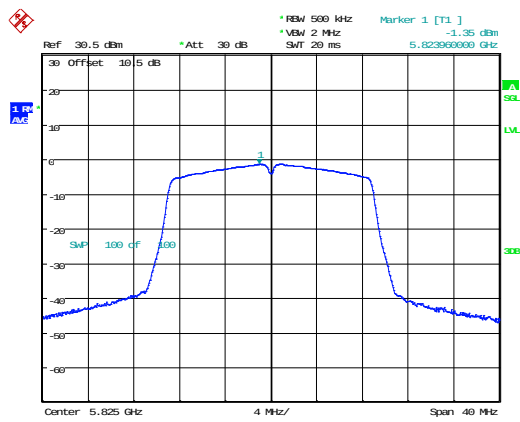
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 15.NOV.2024 00:46:26

802.11n20_5785MHz



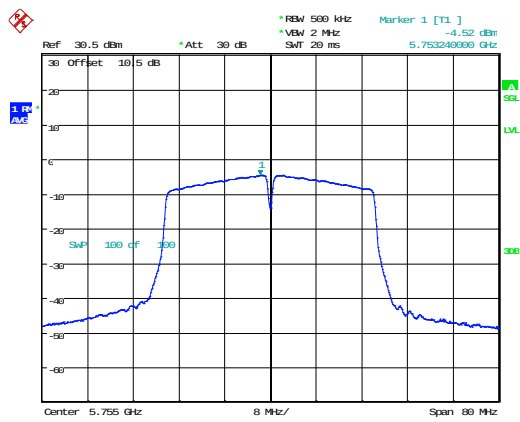
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802.11n20_5825MHz



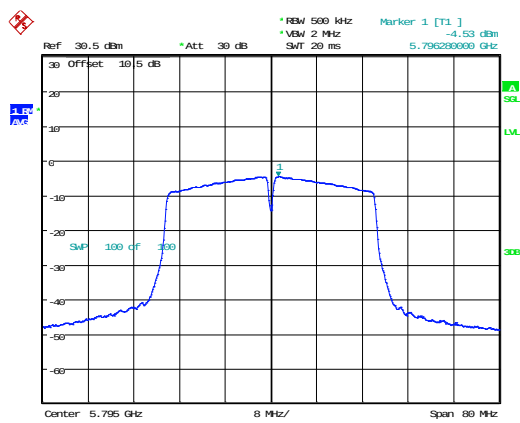
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Date: 15.NOV.2024 00:51:26

802.11n40_5755MHz



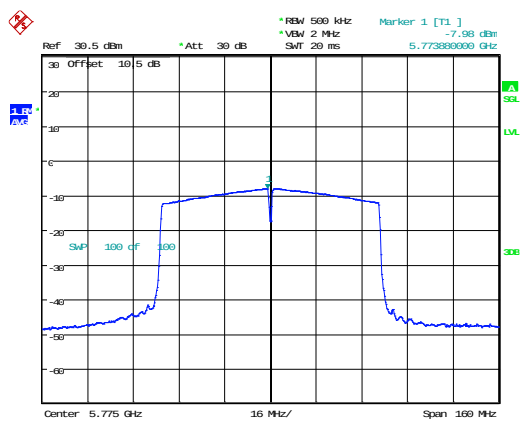
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:26:21

802.11n40_5795MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:29:01

802.11ac80_5775MHz



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 23:00:31

Duty Cycle

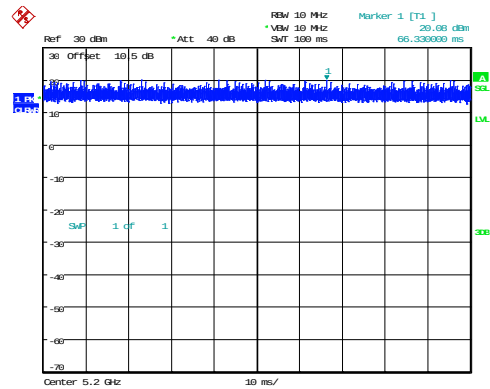
5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5200	100	100	100	0	NA	0.010
802.11n20	Chain 0	5200	100	100	100	0	NA	0.010
802.11n40	Chain 0	5190	100	100	100	0	NA	0.010
802.11ac80	Chain 0	5210	100	100	100	0	NA	0.010

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

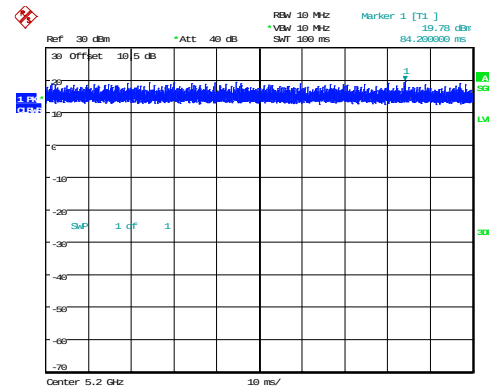
5150-5250MHz

802.11a_5200MHz
100ms,100ms



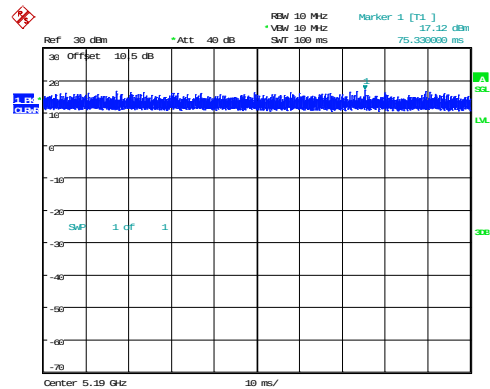
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:41:18

802.11n20_5200MHz
100ms,100ms



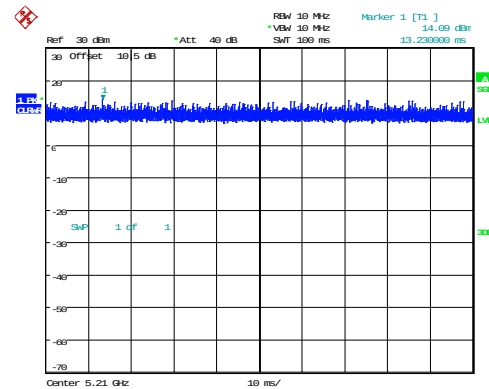
ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:41:57

802.11n40_5190MHz
100ms,100ms



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:42:36

802.11ac80_5210MHz
100ms,100ms



ProjectNo.:2403Y36748E-RF Tester:Chin Qin
Date: 14.NOV.2024 22:43:19