

Test Information:

Sample No.:	2TA4-2	Test Date:	2024/11/05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Chin Qin	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.9	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101.3
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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
Agilent	USB Average Power Sensor	U2001H	MY50000380	2024/04/01	2025/03/31
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	20.301
		5200	20.502
		5240	20.402
802.11n20	Chain 0	5180	20.705
		5200	21.012
		5240	20.603
802.11n40	Chain 0	5190	41.300
		5230	41.300
802.11ac80	Chain 0	5210	83.600

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5260	20.804
		5280	20.352
		5320	20.503
802.11n20	Chain 0	5260	21.779
		5280	20.706
		5320	20.601
802.11n40	Chain 0	5270	41.200
		5310	41.300
802.11ac80	Chain 0	5290	81.800

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5500	20.652
		5580	20.453
		5700	20.604
		5720	21.412
802.11n20	Chain 0	5500	23.218
		5580	20.757

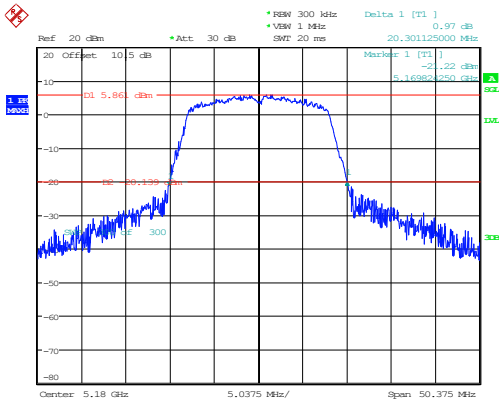
Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11n20	Chain 0	5700	21.658
		5720	20.600
802.11n40	Chain 0	5510	41.100
		5550	41.400
		5670	45.700
		5710	42.900
802.11ac80	Chain 0	5530	89.400
		5610	81.600
		5690	89

6dB Emission Bandwidth
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.400	0.5	Pass
		5785	16.450	0.5	Pass
		5825	16.400	0.5	Pass
802.11n20	Chain 0	5745	17.700	0.5	Pass
		5785	17.700	0.5	Pass
		5825	17.700	0.5	Pass
802.11n40	Chain 0	5755	36.400	0.5	Pass
		5795	36	0.5	Pass
802.11ac80	Chain 0	5775	76.800	0.5	Pass

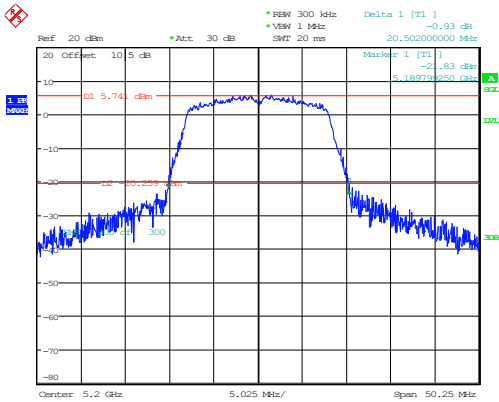
5150-5250MHz

802.11a_5180MHz 20.301MHz



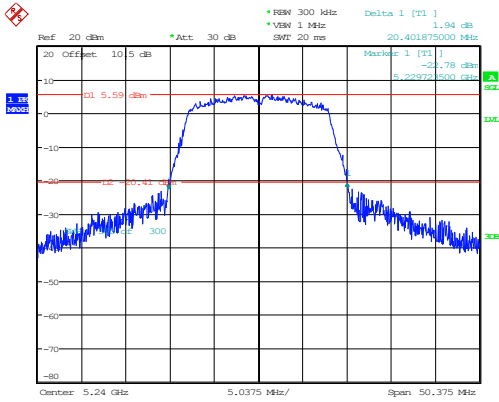
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802.11a_5200MHz 20.502MHz



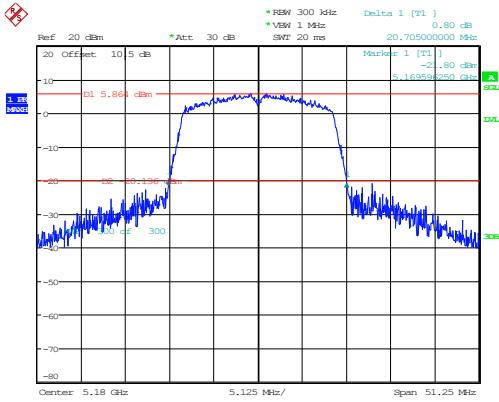
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802.11a_5240MHz 20.402MHz



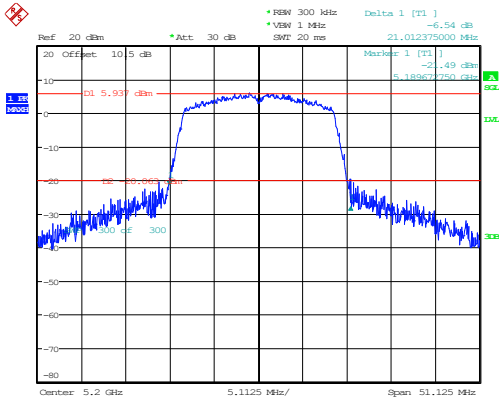
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802.11n20_5180MHz 20.705MHz



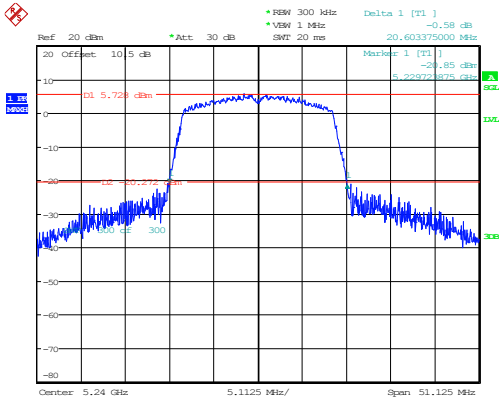
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802.11n20_5200MHz 21.012MHz



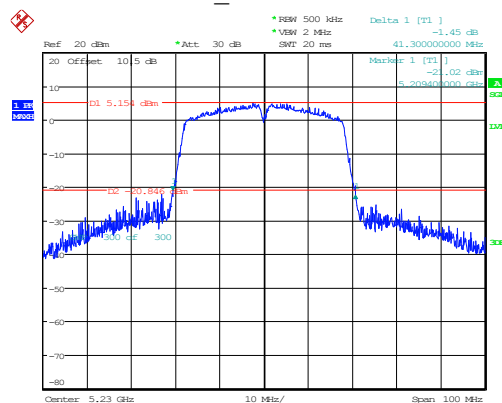
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802.11n20_5240MHz 20.603MHz



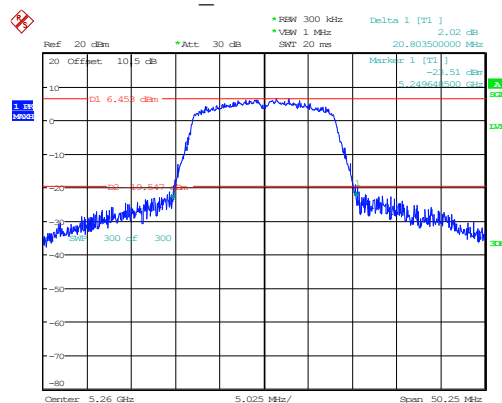
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802.11n40 5230MHz 41.300MHz



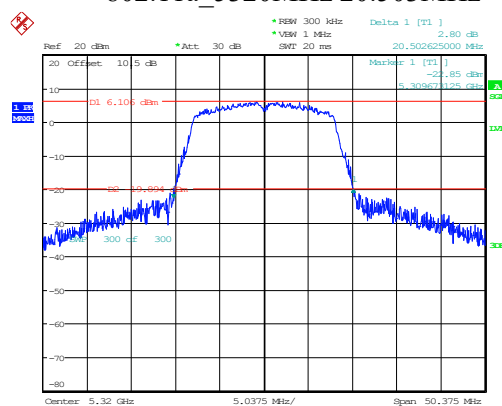
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802.11a 5260MHz 20.804MHz



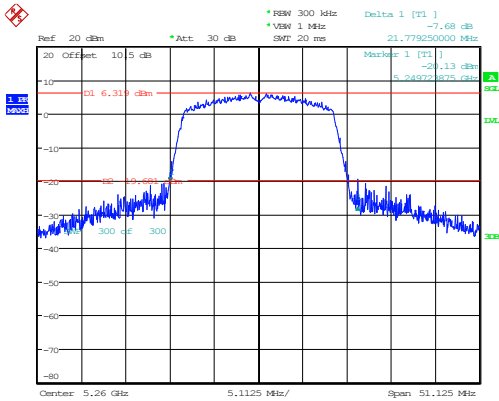
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802.11a 5320MHz 20.503MHz



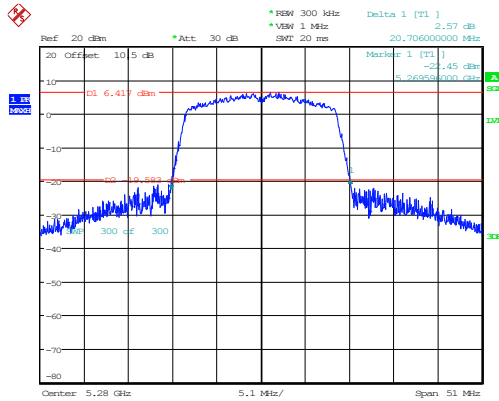
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802.11n20_5260MHz 21.779MHz



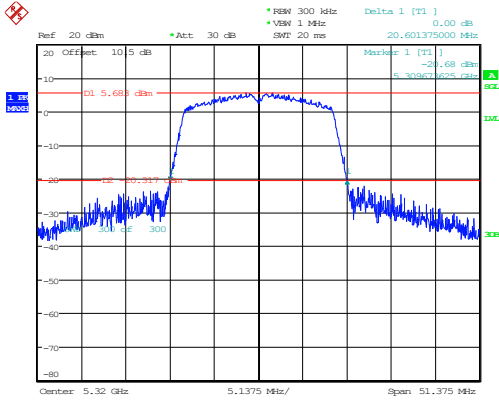
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802.11n20_5280MHz 20.706MHz



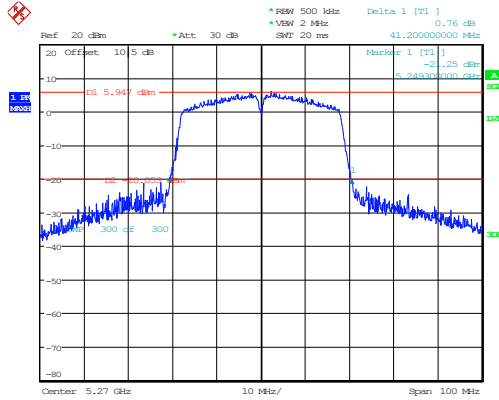
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802.11n20_5320MHz 20.601MHz



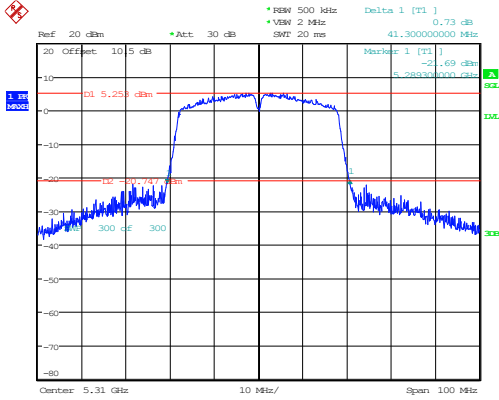
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802.11n40_5270MHz 41.200MHz



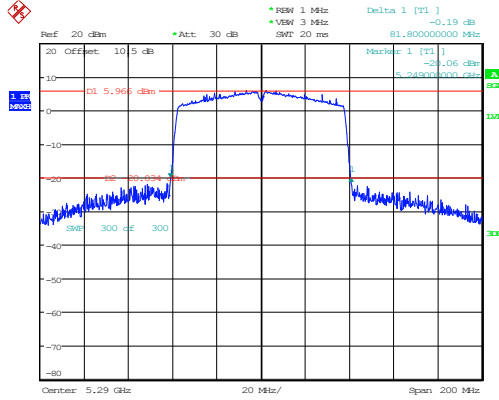
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802.11n40_5310MHz 41.300MHz



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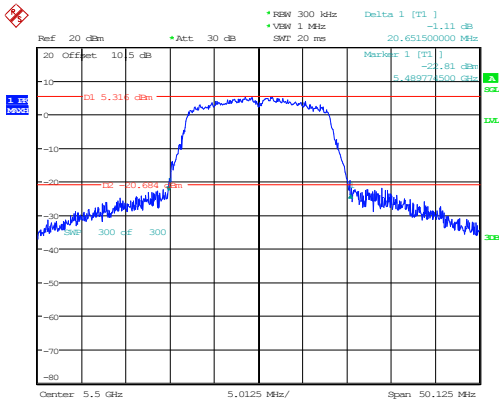
802.11ac80_5290MHz 81.800MHz



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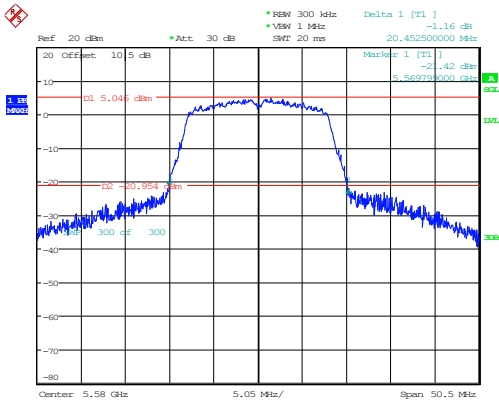
5470-5725MHz

802.11a_5500MHz 20.652MHz



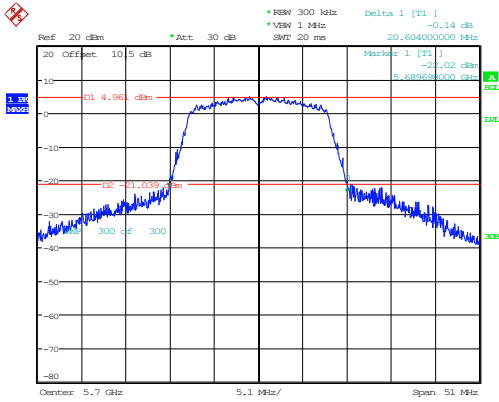
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802.11a_5580MHz 20.453MHz



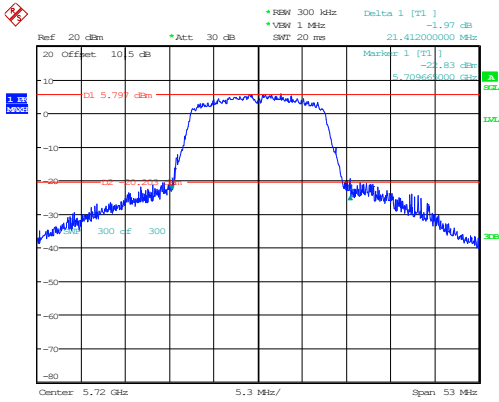
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802.11a_5700MHz 20.604MHz



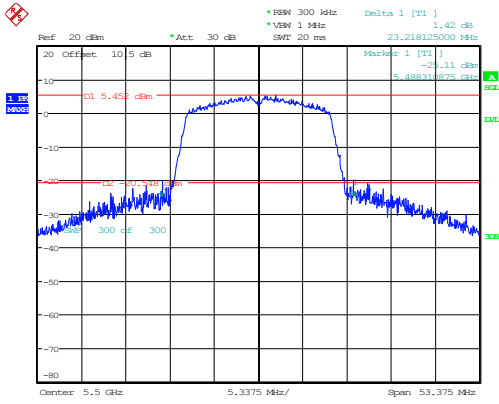
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802.11a_5720MHz 21.412MHz



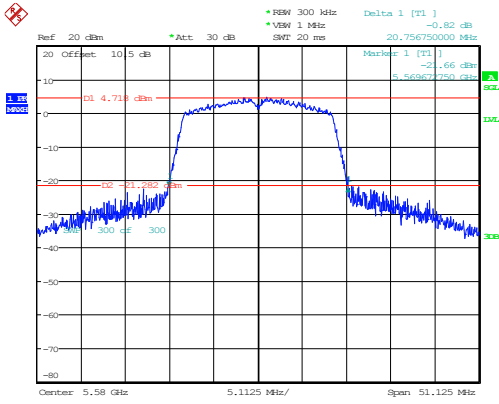
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802.11n20_5500MHz 23.218MHz



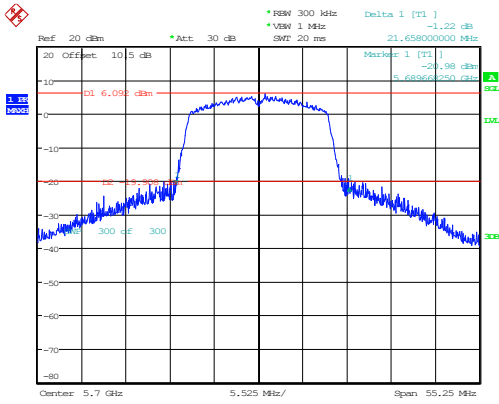
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802.11n20_5580MHz 20.757MHz



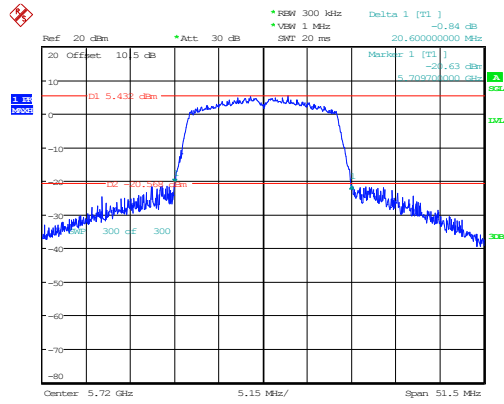
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802.11n20_5700MHz 21.658MHz



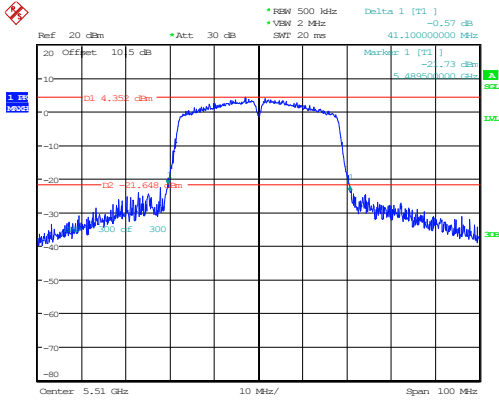
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802.11n20_5720MHz 20.600MHz



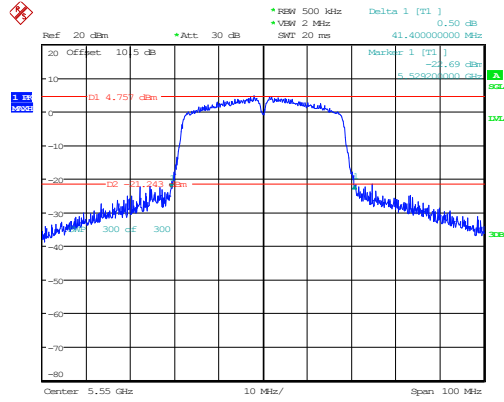
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802.11n40_5510MHz 41.100MHz



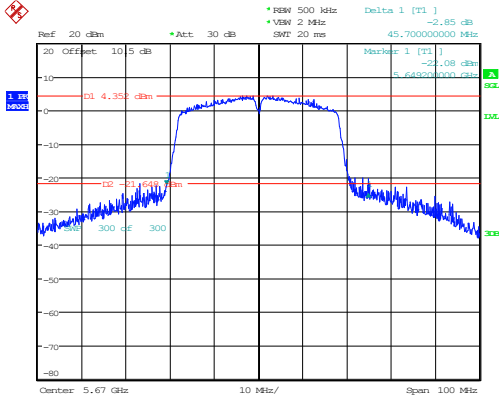
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802.11n40_5550MHz 41.400MHz



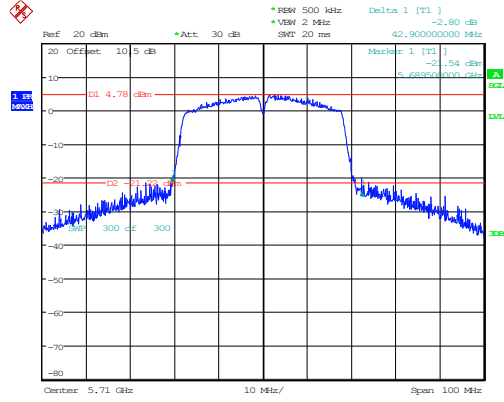
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802.11n40_5670MHz 45.700MHz



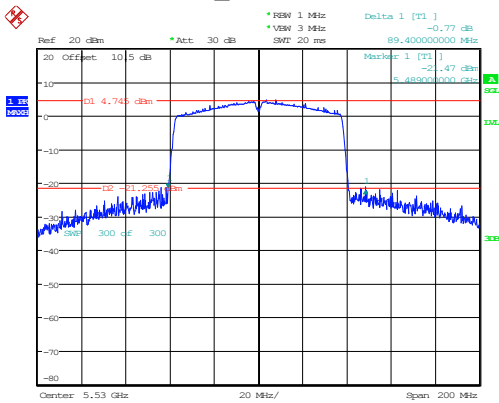
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802.11n40_5710MHz 42.900MHz



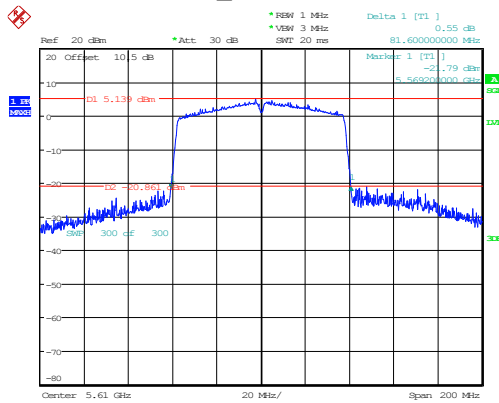
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802.11ac80_5530MHz 89.400MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
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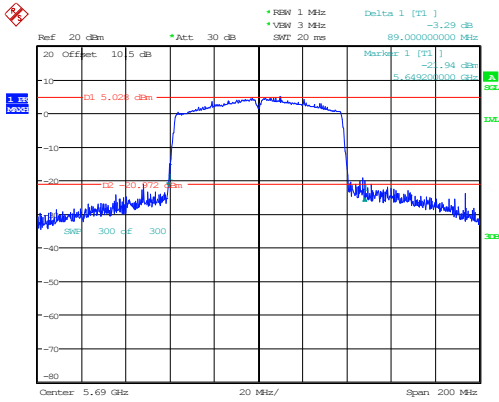
802.11ac80_5610MHz 81.600MHz



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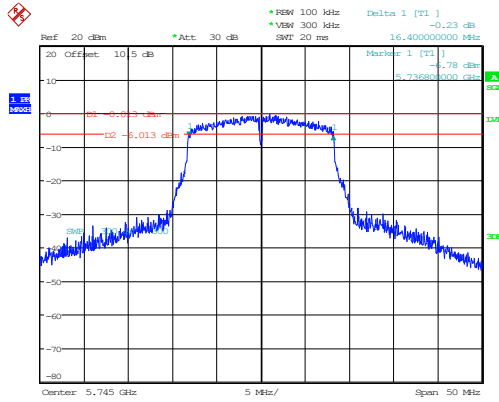
5725-5850MHz

802.11ac80_5690MHz 89MHz



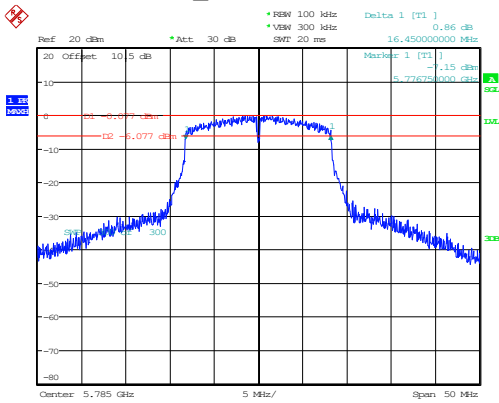
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802.11a_5745MHz 16.400MHz



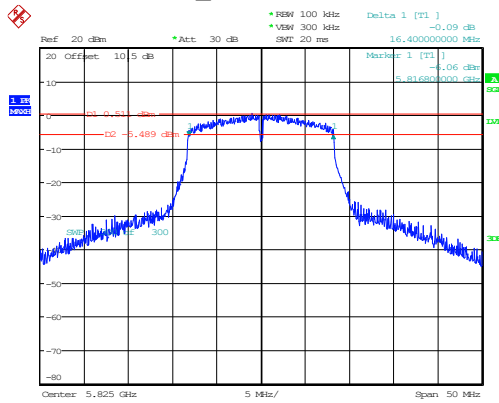
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802.11a_5785MHz 16.450MHz



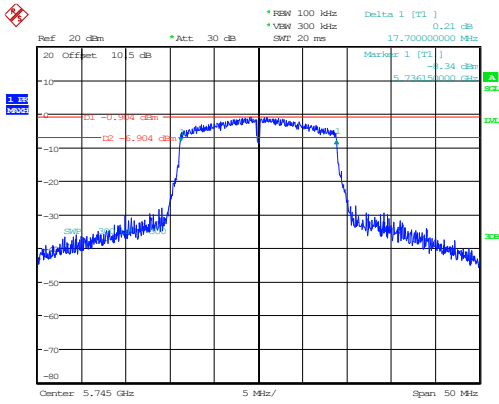
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Date: 5.NOV.2024 19:11:34

802.11a_5825MHz 16.400MHz



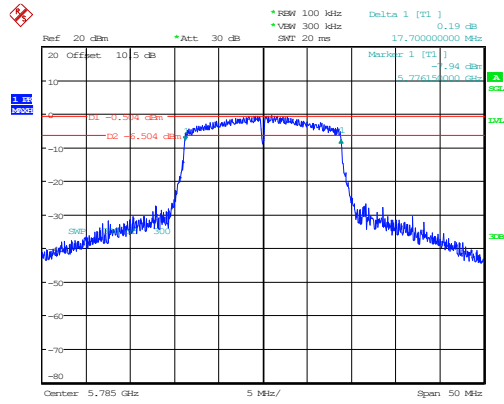
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802.11n20_5745MHz 17.700MHz



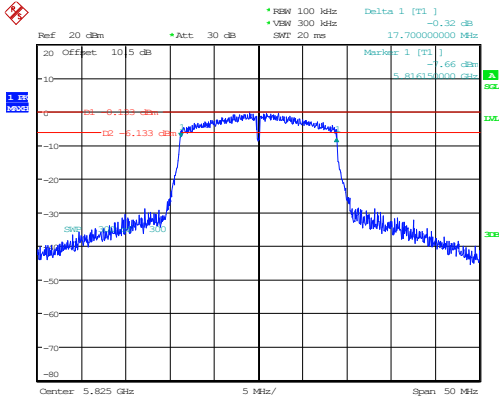
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802.11n20_5785MHz 17.700MHz



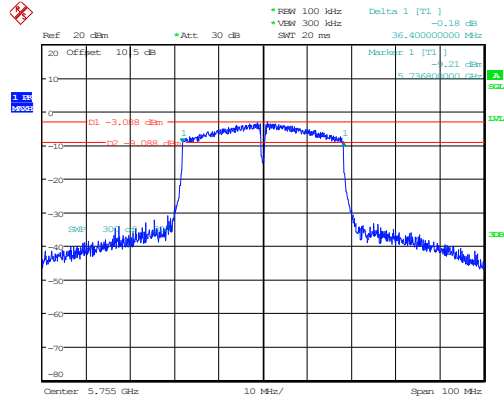
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802.11n20_5825MHz 17.700MHz



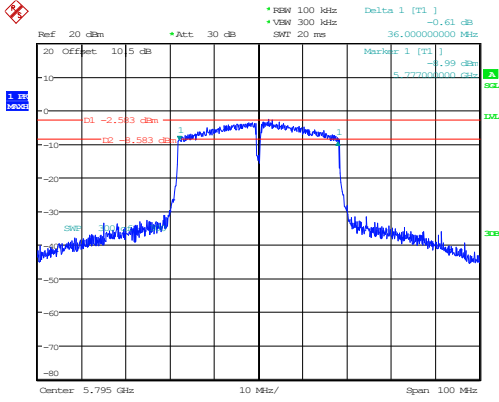
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802.11n40_5755MHz 36.400MHz



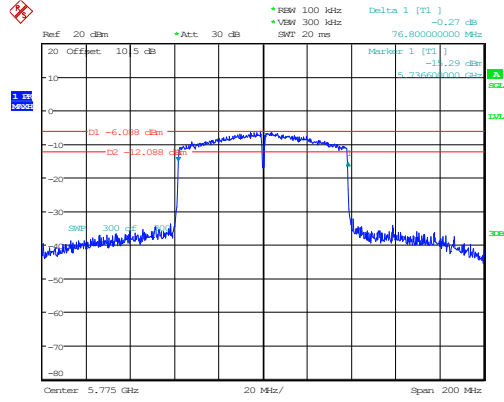
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802.11n40_5795MHz 36MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 20:34:26

802.11ac80_5775MHz 76.800MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:51:40

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

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.500
		5200	16.600
		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	16.600
802.11n20	Chain 0	5260	17.650
		5280	17.650
		5320	17.650
802.11n40	Chain 0	5270	36.300
		5310	36.400
802.11ac80	Chain 0	5290	75.400

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5500	16.650
		5580	16.600
		5700	16.650
		5720	16.650
802.11n20	Chain 0	5500	17.700

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11n20	Chain 0	5580	17.650
		5700	17.650
		5720	17.700
802.11n40	Chain 0	5510	36.200
		5550	36.300
		5670	36.300
		5710	36.300
802.11ac80	Chain 0	5530	75.400
		5610	75.400
		5690	75.600

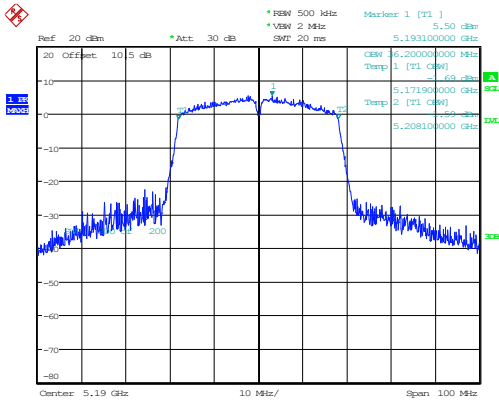
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	16.600
		5785	16.650
		5825	16.650
802.11n20	Chain 0	5745	17.700
		5785	17.650
		5825	17.650
802.11n40	Chain 0	5755	36.400
		5795	36.400
802.11ac80	Chain 0	5775	75.600

Note:

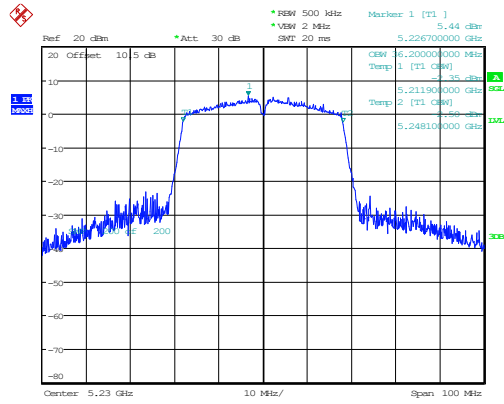
The 99% Occupied Bandwidth have not fall into the band 5470-5725MHz, please refer to the test plots of 99% Occupied Bandwidth.

802.11n40_5190MHz 36.200MHz



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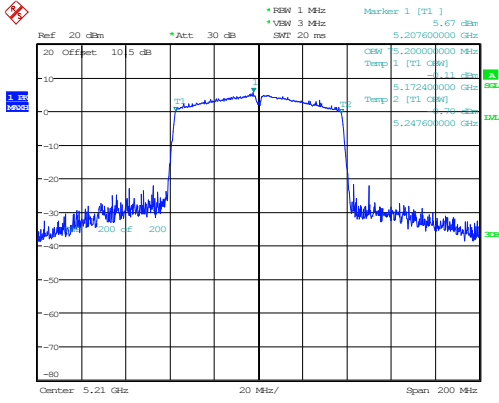
802.11n40_5230MHz 36.200MHz



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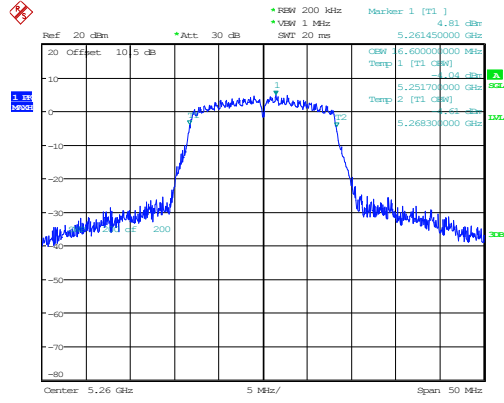
5250-5350MHz

802.11ac80_5210MHz 75.200MHz



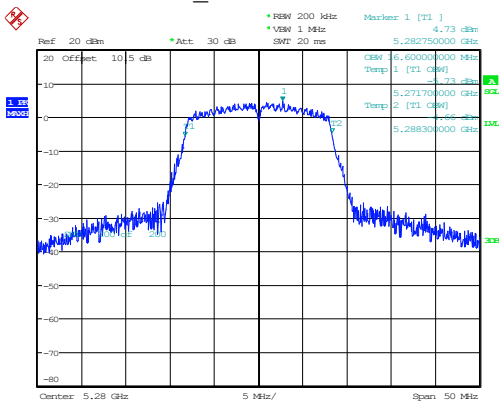
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802.11a_5260MHz 16.600MHz



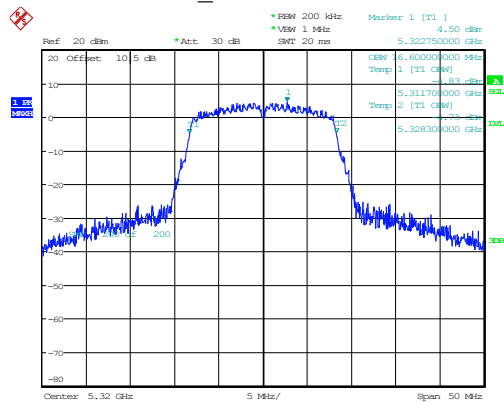
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802.11a_5280MHz 16.600MHz



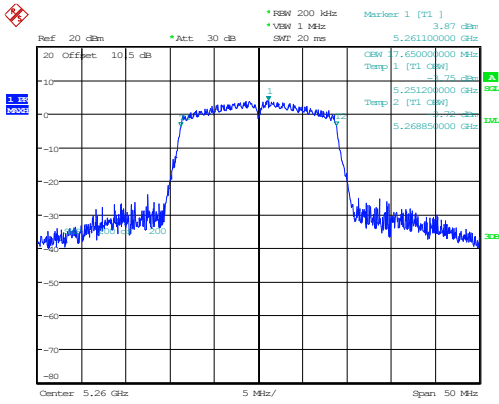
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802.11a_5320MHz 16.600MHz



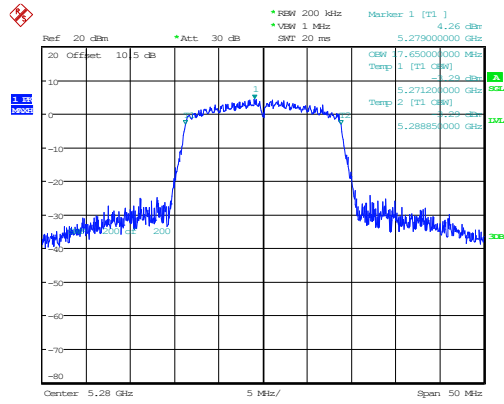
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802.11n20_5260MHz 17.650MHz



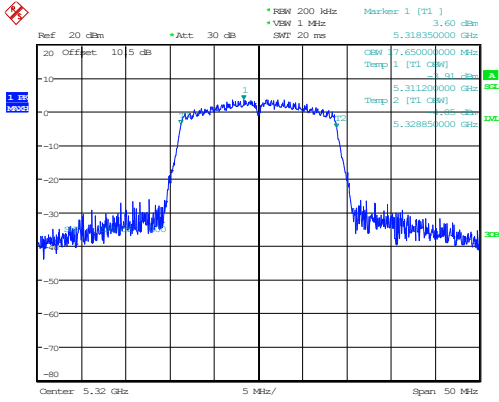
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802.11n20_5280MHz 17.650MHz



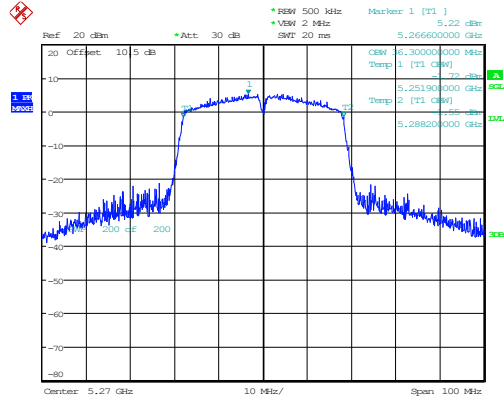
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802.11n20_5320MHz 17.650MHz



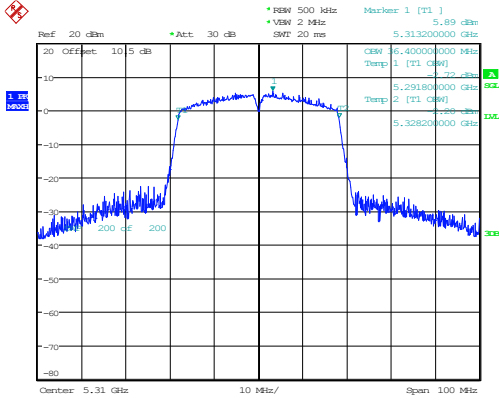
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802.11n40_5270MHz 36.300MHz



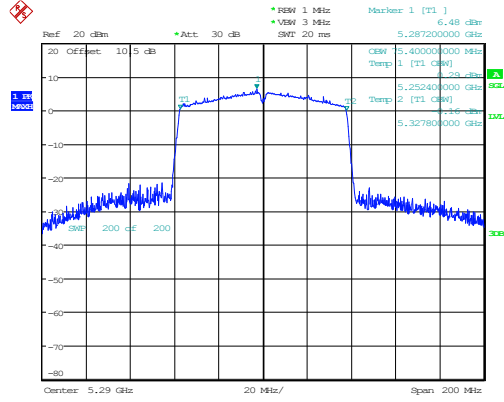
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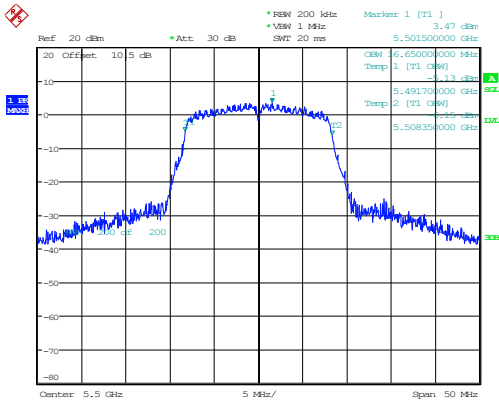
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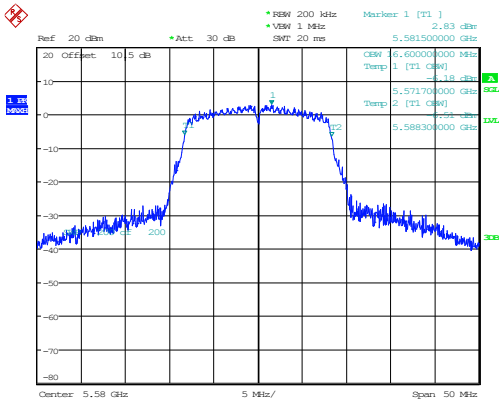
5470-5725MHz

802.11a_5500MHz 16.650MHz



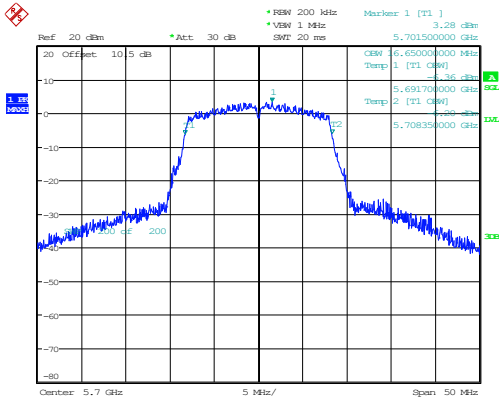
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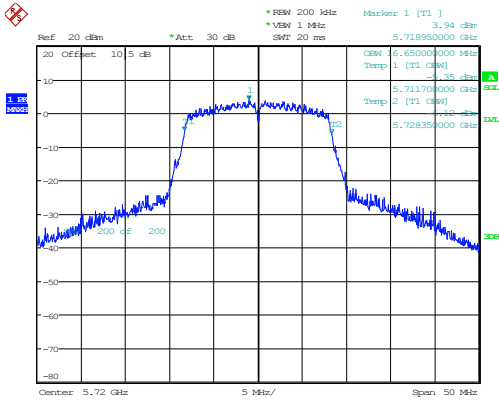
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802.11a_5700MHz 16.650MHz



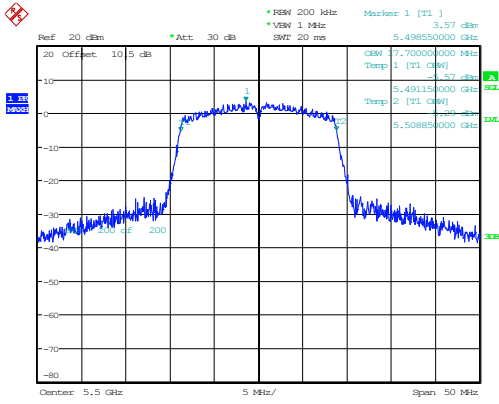
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802.11a_5720MHz 16.650MHz



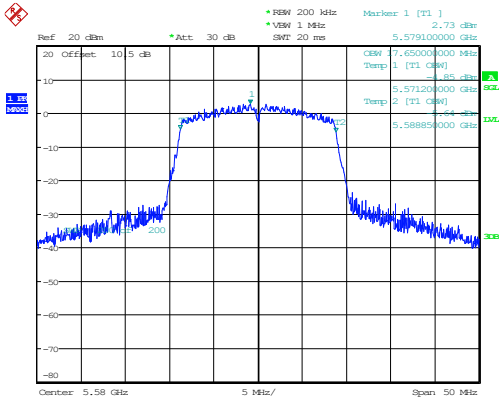
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802.11n20_5500MHz 17.700MHz



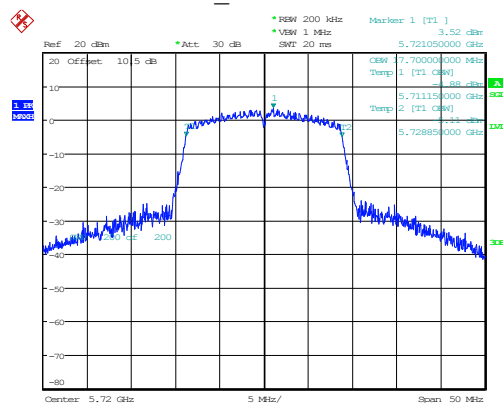
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802.11n20_5580MHz 17.650MHz



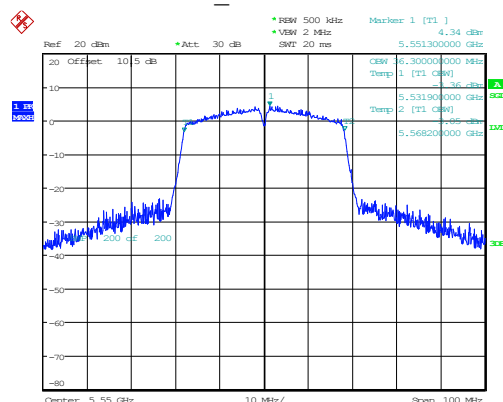
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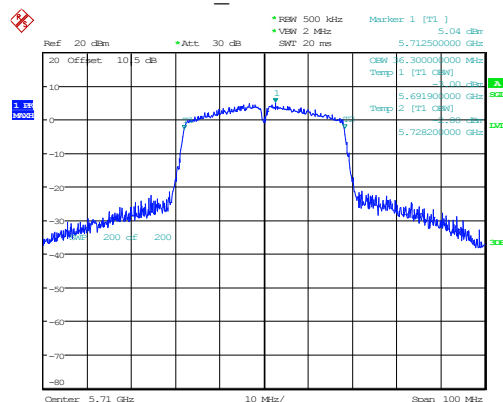
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802.11n40 5550MHz 36.300MHz



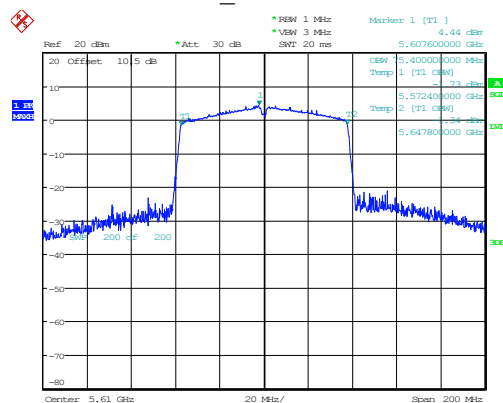
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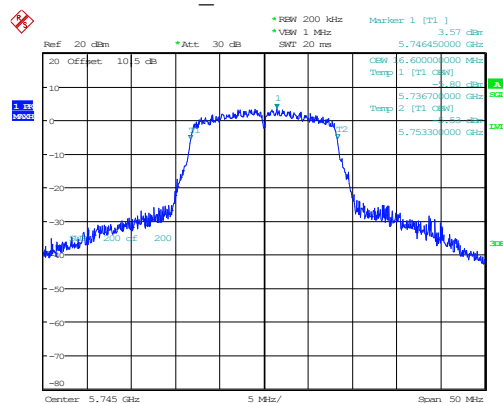
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802.11ac80 5610MHz 75.400MHz



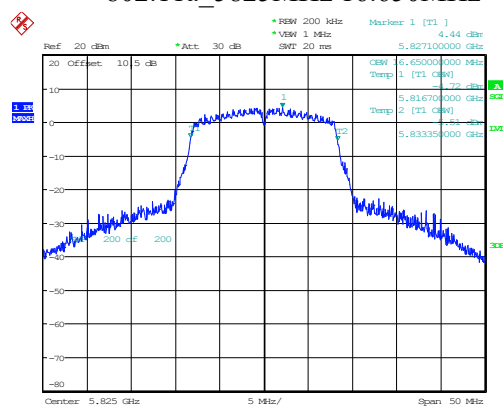
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802.11a 5745MHz 16.600MHz



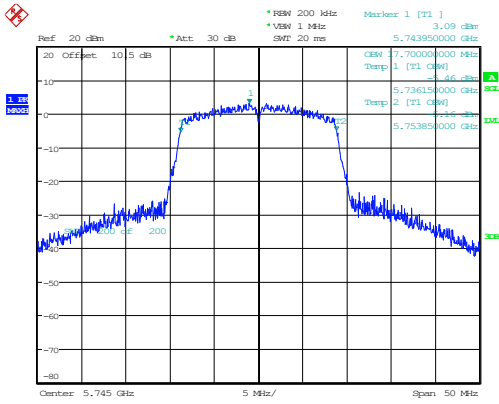
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802.11a 5825MHz 16.650MHz



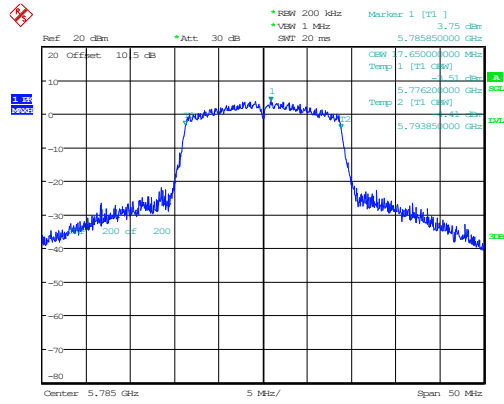
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802.11n20_5745MHz 17.700MHz



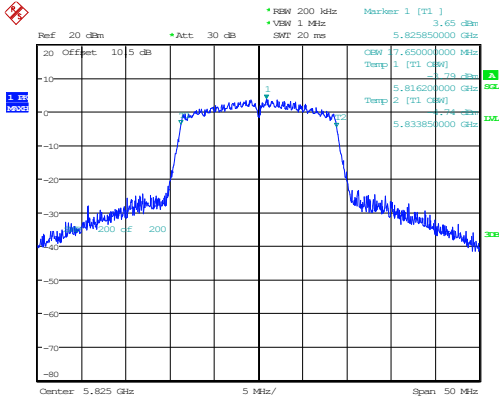
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802.11n20_5785MHz 17.650MHz



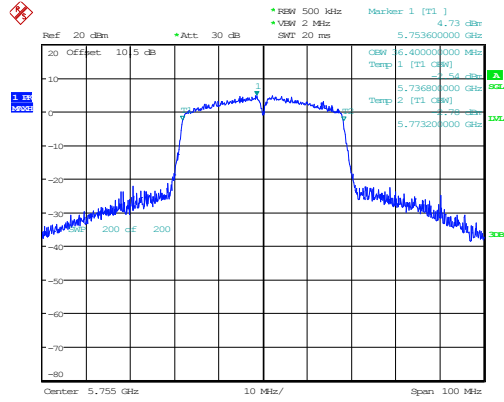
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802.11n20_5825MHz 17.650MHz



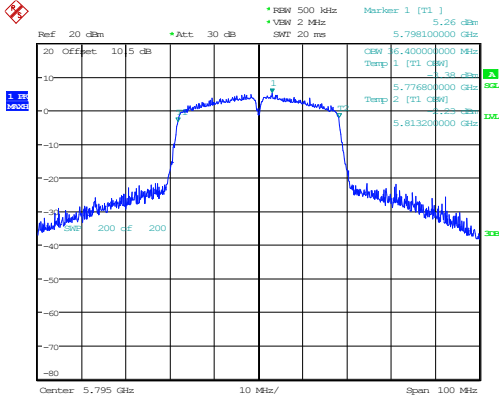
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802.11n40_5755MHz 36.400MHz



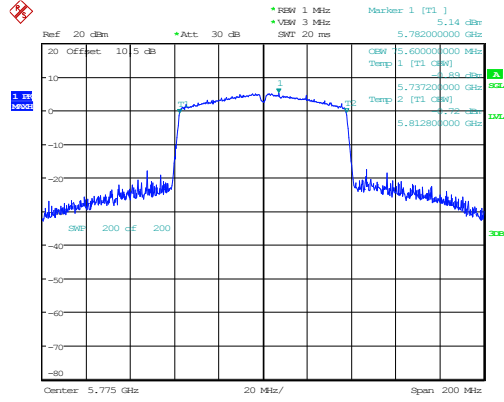
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802.11n40_5795MHz 36.400MHz



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802.11ac80_5775MHz 75.600MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:52:28

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

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	13.03	24	Pass
		5200	12.9	24	Pass
		5240	12.66	24	Pass
802.11n20	Chain 0	5180	13.06	24	Pass
		5200	13.2	24	Pass
		5240	12.86	24	Pass
802.11n40	Chain 0	5190	12.97	24	Pass
		5230	12.66	24	Pass
802.11ac80	Chain 0	5210	12.45	24	Pass

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5260	13.41	24	Pass
		5280	13.39	24	Pass
		5320	13.35	24	Pass
802.11n20	Chain 0	5260	13.12	24	Pass
		5280	13.32	24	Pass
		5320	12.81	24	Pass
802.11n40	Chain 0	5270	13.19	24	Pass
		5310	13.23	24	Pass
802.11ac80	Chain 0	5290	13.05	24	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5500	12.35	24	Pass
		5580	11.89	24	Pass
		5700	12.19	24	Pass
		5720	12.73	24	Pass
802.11n20	Chain 0	5500	12.33	24	Pass
		5580	11.79	24	Pass
		5700	12.59	24	Pass

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11n20	Chain 0	5720	12.21	24	Pass
802.11n40	Chain 0	5510	11.71	24	Pass
		5550	12.11	24	Pass
		5670	12.34	24	Pass
		5710	12.42	24	Pass
802.11ac80	Chain 0	5530	11.85	24	Pass
		5610	11.45	24	Pass
		5690	11.77	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	12.45	30	Pass
		5785	13.05	30	Pass
		5825	13.34	30	Pass
802.11n20	Chain 0	5745	12.31	30	Pass
		5785	12.89	30	Pass
		5825	12.73	30	Pass
802.11n40	Chain 0	5755	12.72	30	Pass
		5795	12.72	30	Pass
802.11ac80	Chain 0	5775	12.72	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	2.86	0	2.86	11	Pass
		5200	2.70	0	2.70	11	Pass
		5240	2.45	0	2.45	11	Pass
802.11n20	Chain 0	5180	2.70	0	2.70	11	Pass
		5200	2.84	0	2.84	11	Pass
		5240	2.43	0	2.43	11	Pass
802.11n40	Chain 0	5190	-0.26	0	-0.26	11	Pass
		5230	-0.48	0	-0.48	11	Pass
802.11ac80	Chain 0	5210	-3.93	0	-3.93	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	3.21	0	3.21	11	Pass
		5280	3.23	0	3.23	11	Pass
		5320	3.14	0	3.14	11	Pass
802.11n20	Chain 0	5260	2.77	0	2.77	11	Pass
		5280	2.93	0	2.93	11	Pass
		5320	2.42	0	2.42	11	Pass
802.11n40	Chain 0	5270	-0.04	0	-0.04	11	Pass
		5310	0.04	0	0.04	11	Pass
802.11ac80	Chain 0	5290	-3.37	0	-3.37	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	2.14	0	2.14	11	Pass
		5580	1.71	0	1.71	11	Pass
		5700	1.99	0	1.99	11	Pass
		5720	2.49	0	2.49	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	1.94	0	1.94	11	Pass
		5580	1.38	0	1.38	11	Pass
		5700	2.23	0	2.23	11	Pass
		5720	1.82	0	1.82	11	Pass
802.11n40	Chain 0	5510	-1.49	0	-1.49	11	Pass
		5550	-1.10	0	-1.10	11	Pass
		5670	-0.90	0	-0.90	11	Pass
		5710	-0.74	0	-0.74	11	Pass
802.11ac80	Chain 0	5530	-4.68	0	-4.68	11	Pass
		5610	-4.98	0	-4.98	11	Pass
		5690	-4.66	0	-4.66	11	Pass

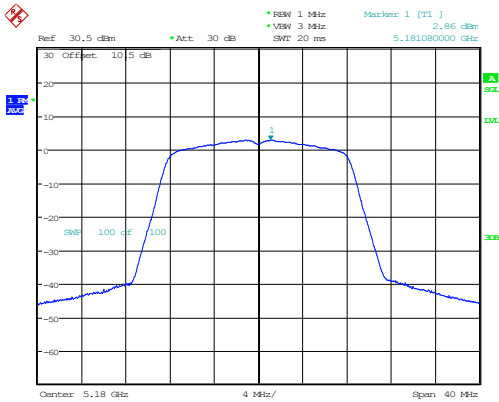
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	Chain 0	5745	-0.63	0	-0.63	30	Pass
		5785	-0.02	0	-0.02	30	Pass
		5825	0.26	0	0.26	30	Pass
802.11n20	Chain 0	5745	-0.96	0	-0.96	30	Pass
		5785	-0.45	0	-0.45	30	Pass
		5825	-0.58	0	-0.58	30	Pass
802.11n40	Chain 0	5755	-3.39	0	-3.39	30	Pass
		5795	-3.45	0	-3.45	30	Pass
802.11ac80	Chain 0	5775	-6.83	0	-6.83	30	Pass

Result = Reading + Duty Cycle Factor

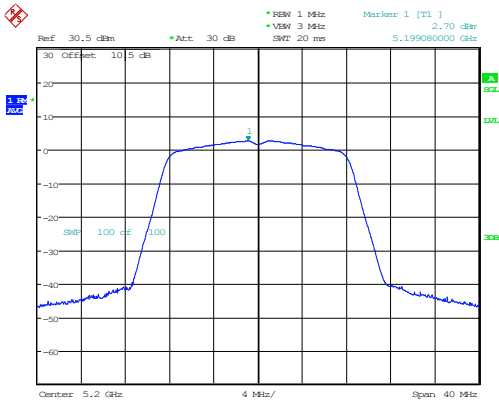
5150-5250MHz

802.11a_5180MHz



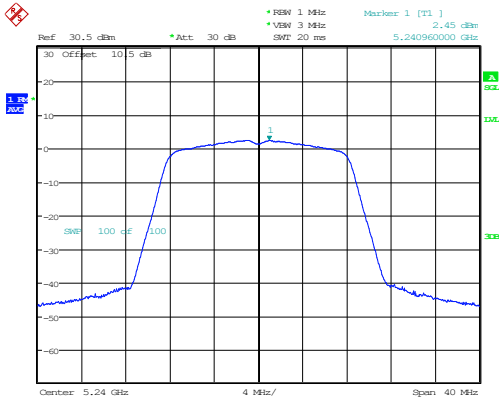
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802.11a_5200MHz



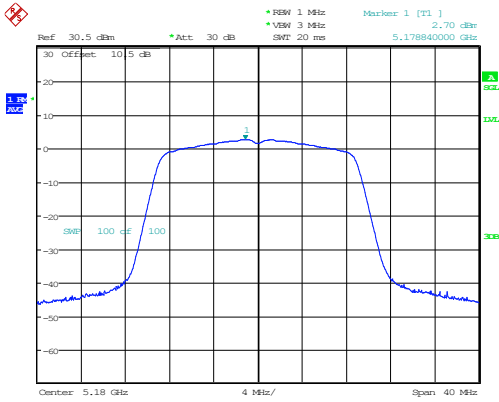
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802.11a_5240MHz



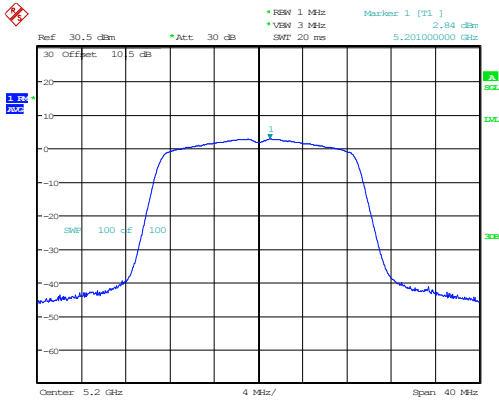
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802.11n20_5180MHz



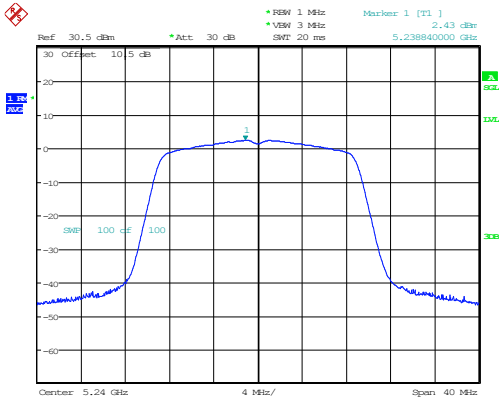
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802.11n20_5200MHz



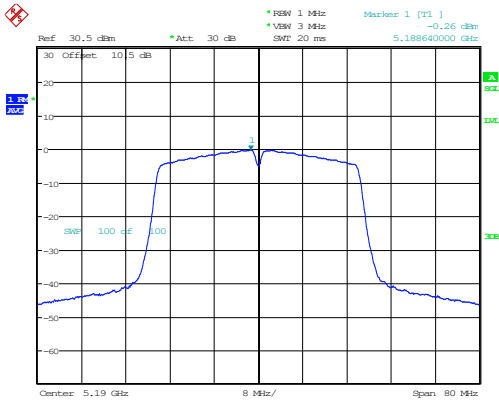
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802.11n20_5240MHz



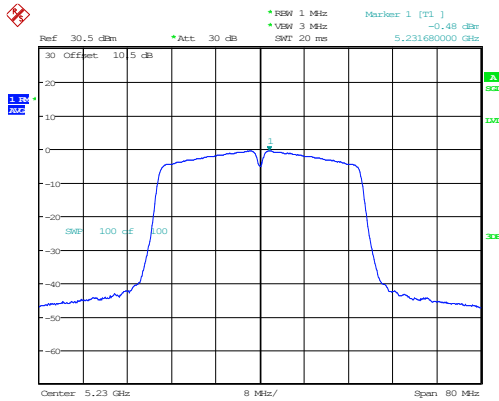
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802.11n40_5190MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
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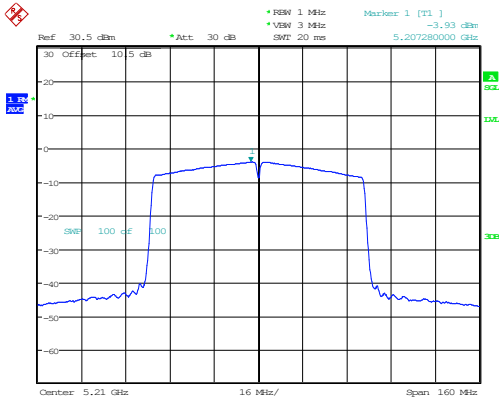
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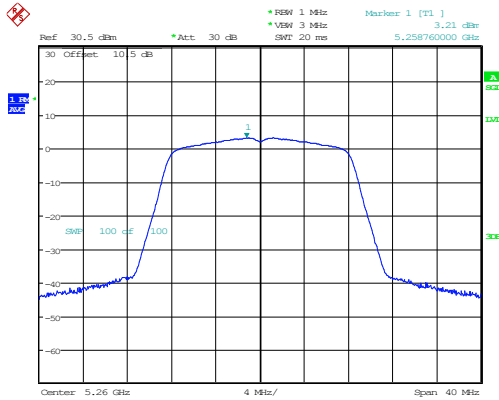
5250-5350MHz

802.11ac80_5210MHz



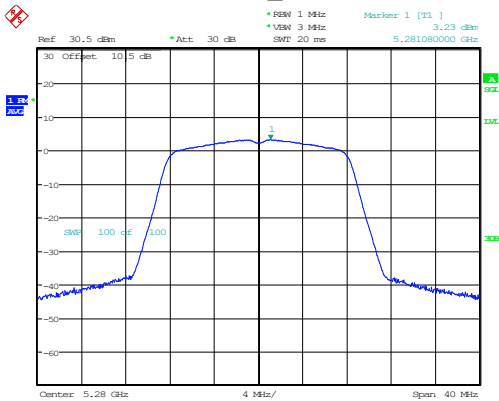
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802.11a_5260MHz



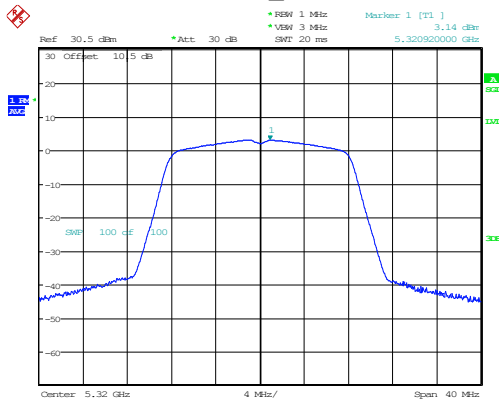
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802.11a_5280MHz



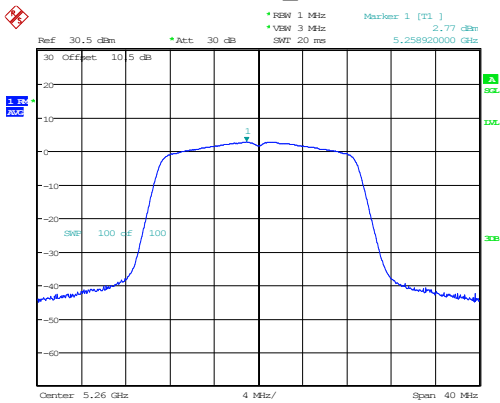
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802.11a_5320MHz



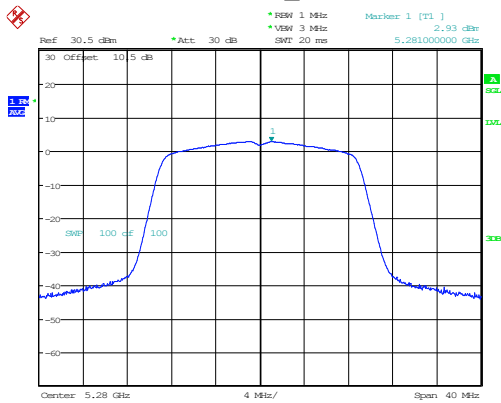
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802.11n20_5260MHz



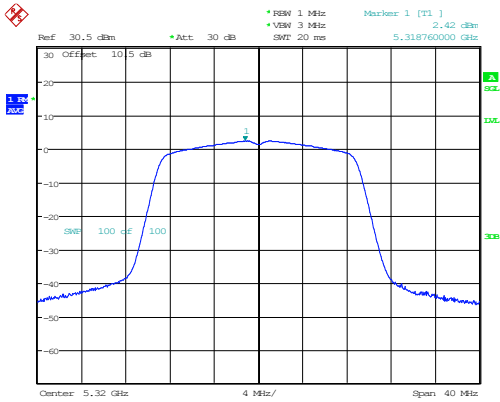
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802.11n20_5280MHz



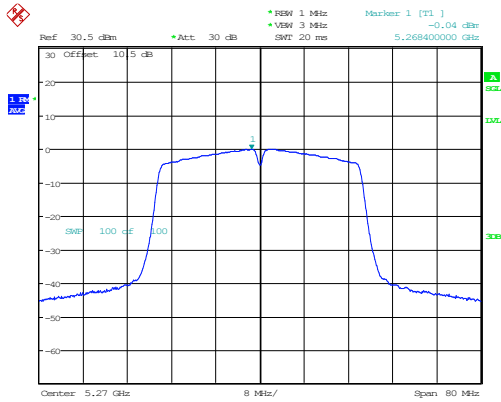
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802.11n20_5320MHz



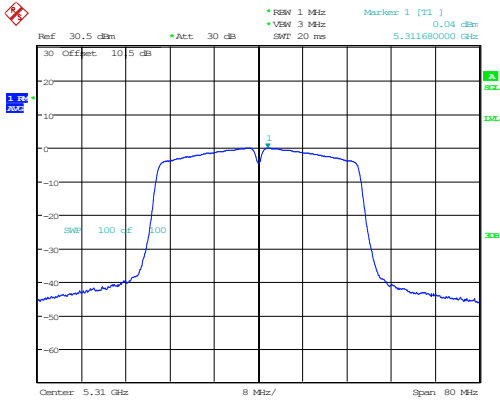
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802.11n40_5270MHz



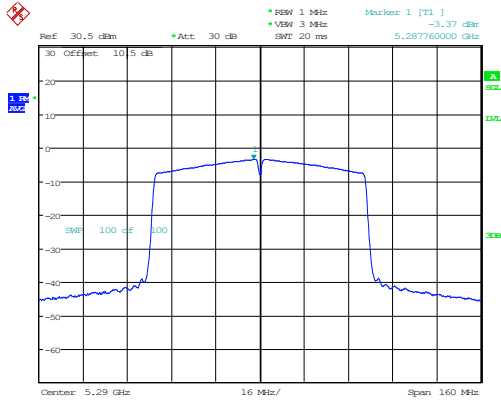
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802.11n40_5310MHz



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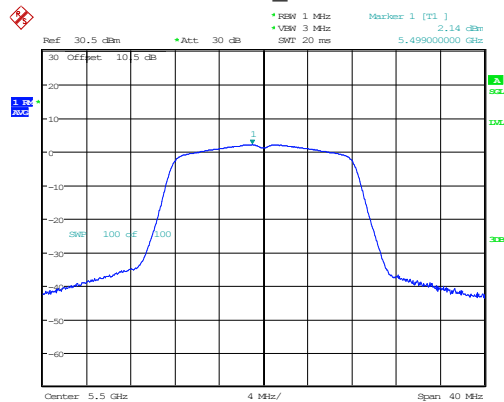
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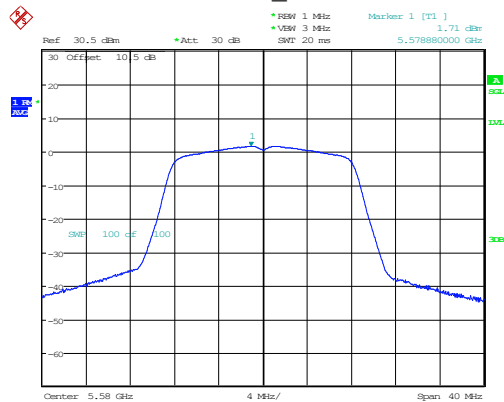
5470-5725MHz

802.11a_5500MHz



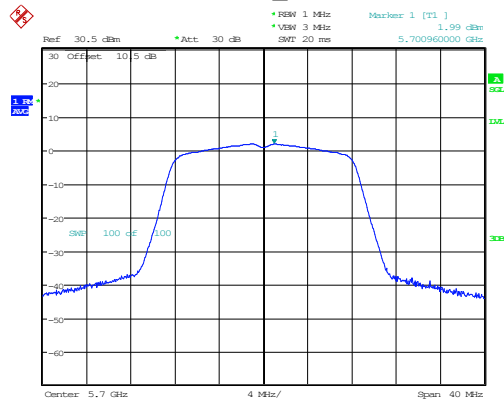
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802.11a_5580MHz



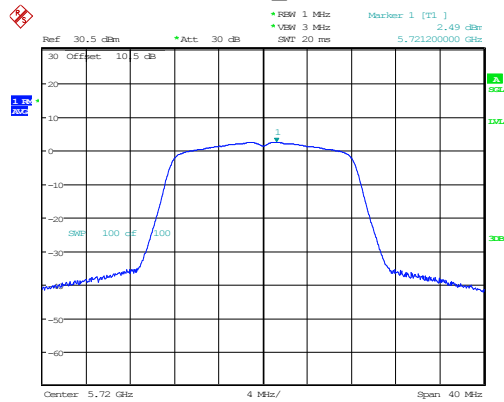
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802.11a_5700MHz



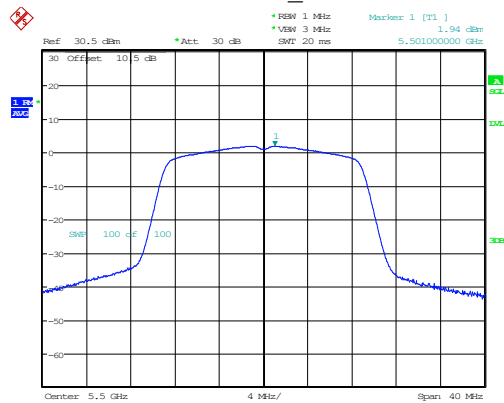
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802.11a_5720MHz



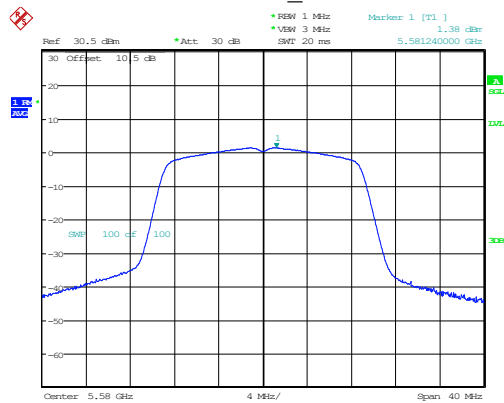
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Date: 5.NOV.2024 19:06:42

802.11n20_5500MHz



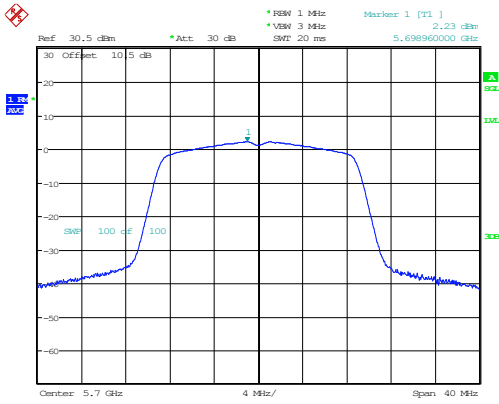
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 19:39:07

802.11n20_5580MHz



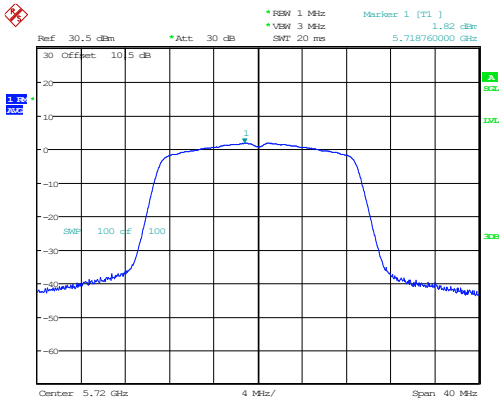
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Date: 5.NOV.2024 19:42:08

802.11n20_5700MHz



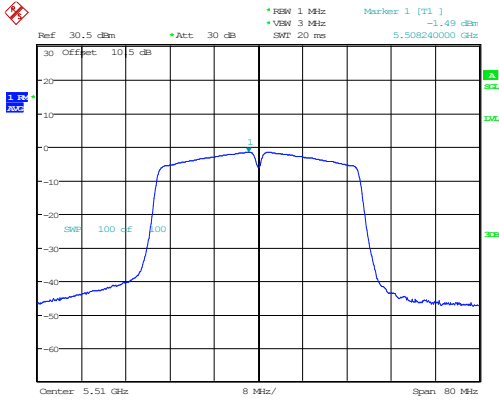
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 19:45:31

802.11n20_5720MHz



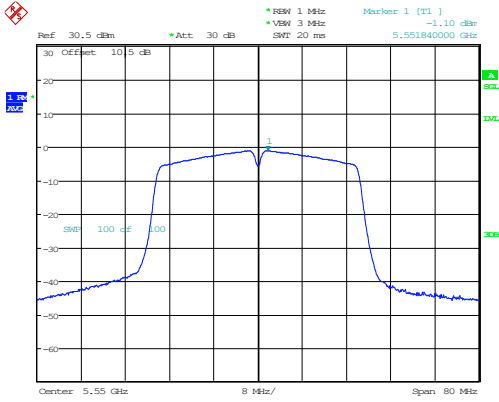
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 19:52:16

802.11n40_5510MHz



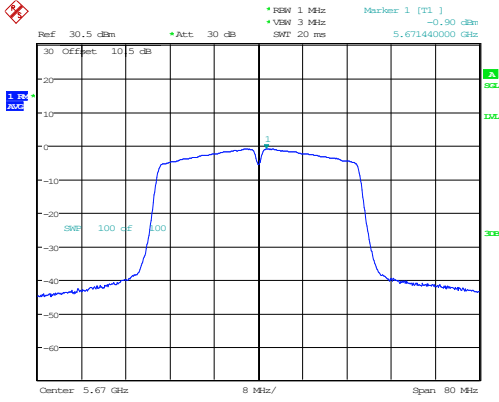
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Date: 5.NOV.2024 20:19:41

802.11n40_5550MHz



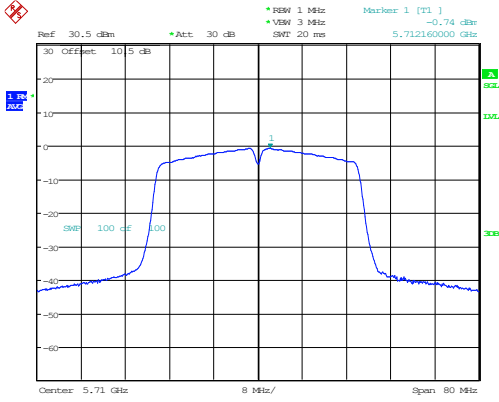
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Date: 5.NOV.2024 20:22:16

802.11n40_5670MHz



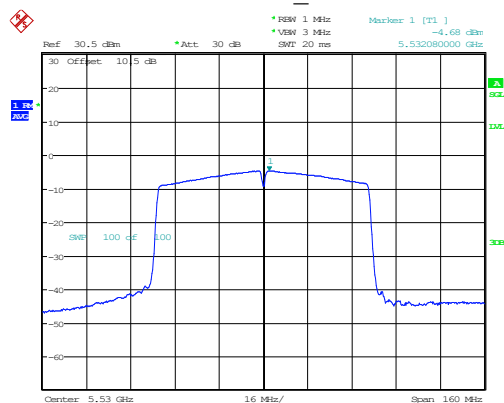
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Date: 5.NOV.2024 20:25:50

802.11n40_5710MHz



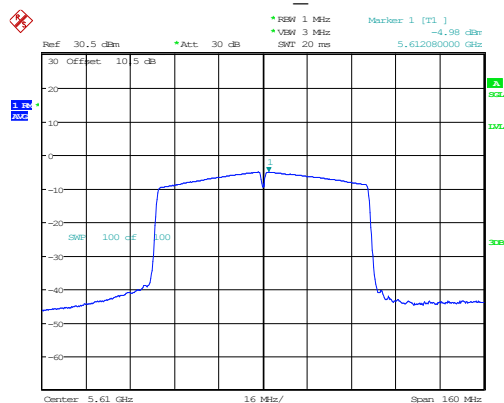
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 20:28:35

802.11ac80_5530MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:44:36

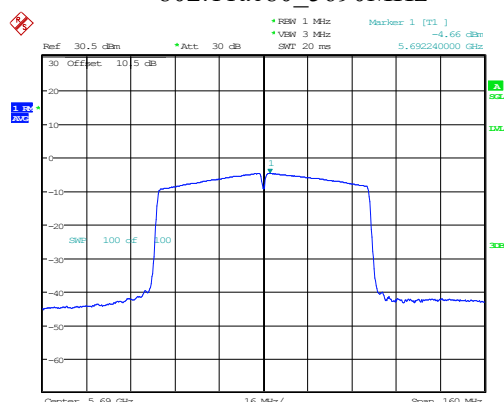
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ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:47:14

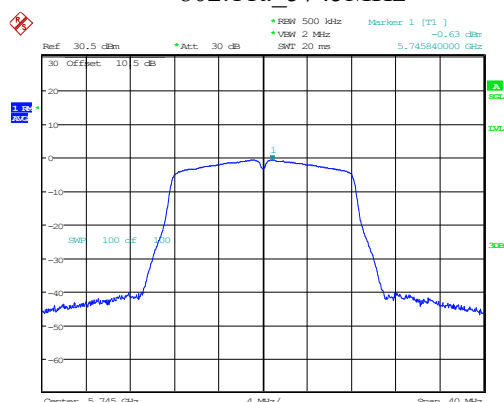
5725-5850MHz

802.11ac80_5690MHz



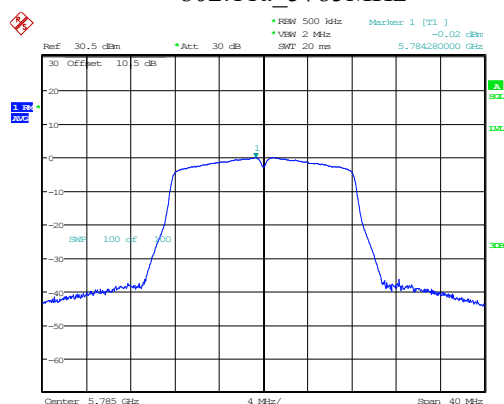
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802.11a_5745MHz



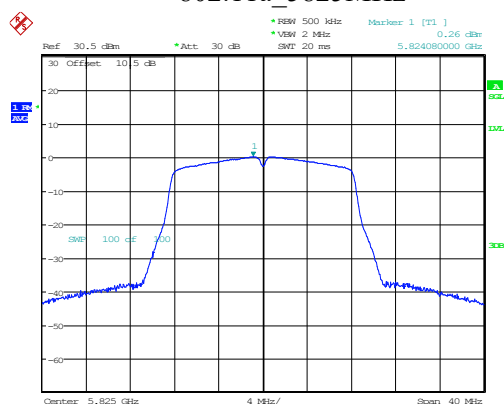
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Date: 5.NOV.2024 19:09:15

802.11a_5785MHz



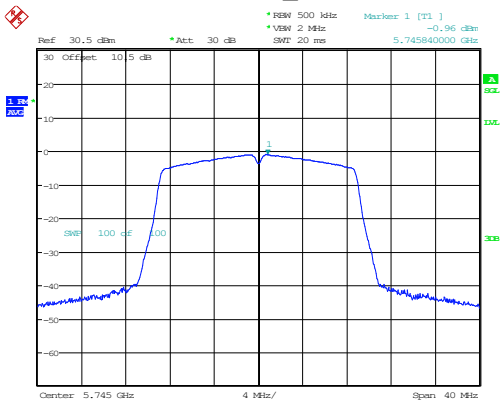
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Date: 5.NOV.2024 19:12:57

802.11a_5825MHz



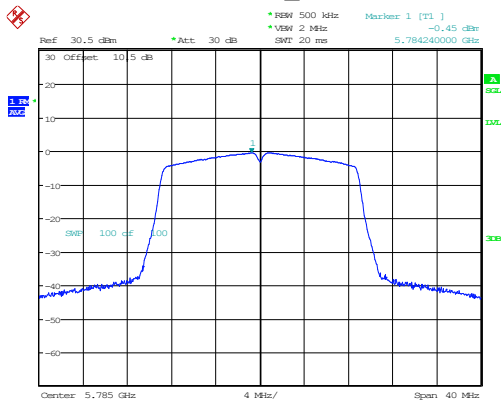
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802.11n20_5745MHz



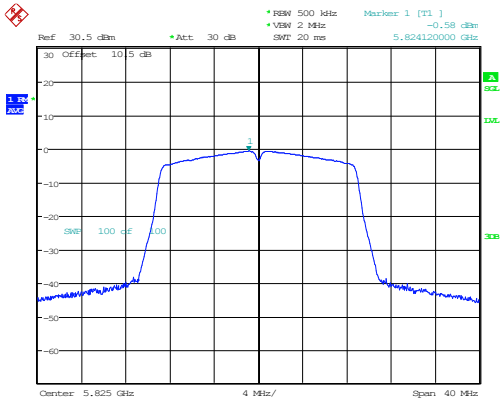
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802.11n20_5785MHz



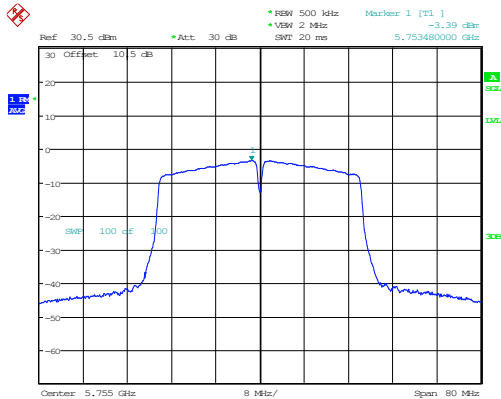
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Date: 5.NOV.2024 20:00:01

802.11n20_5825MHz



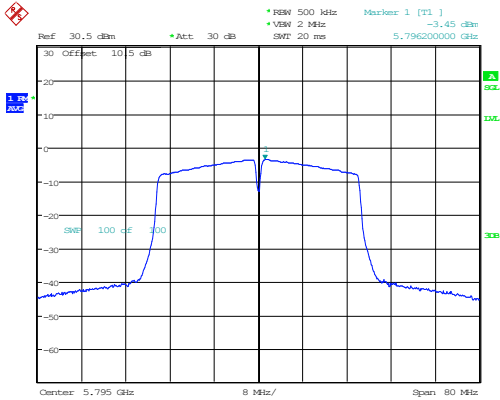
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 20:02:42

802.11n40_5755MHz



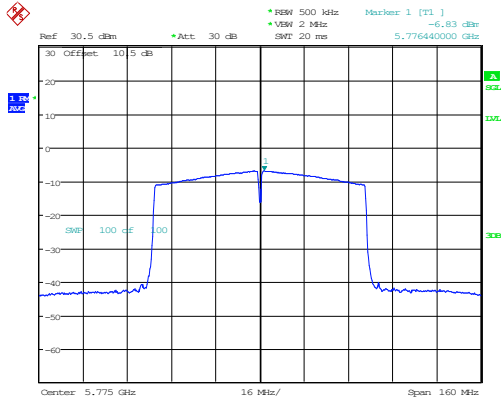
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 20:32:09

802.11n40_5795MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 20:36:01

802.11ac80_5775MHz



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:53:20

Duty Cycle

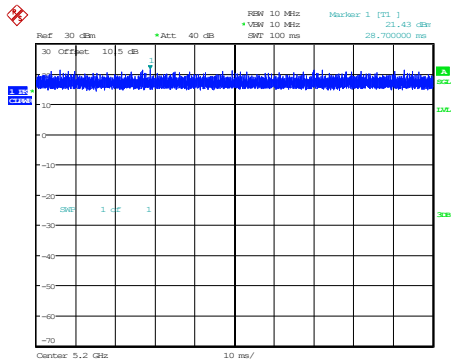
5150-5250MHz

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%

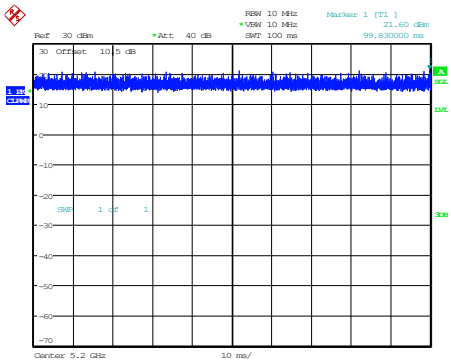
5150-5250MHz

802.11a_5200MHz
100ms,100ms



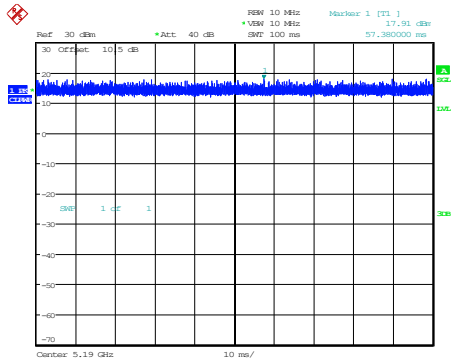
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:31:20

802.11n20_5200MHz
100ms,100ms



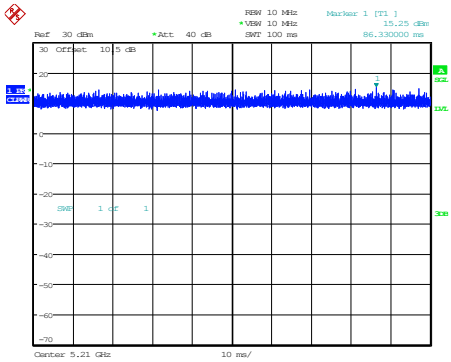
ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:31:51

802.11n40_5190MHz
100ms,100ms



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:32:32

802.11ac80_5210MHz
100ms,100ms



ProjectNo.:2403Y100558E-RF Tester:Chin Qin
Date: 5.NOV.2024 17:33:56