

Test Information:

Sample No.:	2XL7-1	Test Date:	2025/01/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	24.6	Relative Humidity: (%)	52	ATM Pressure: (kPa)	101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	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
YINSAIGE	Coaxial Cable	SS402	SJ0100001	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	Test Frequency (MHz)	Result (MHz)
802.11a	5180	21.287
	5200	21.255
	5240	21.397
802.11n20	5180	21.408
	5200	21.580
	5240	21.372
802.11n40	5190	42.320
	5230	42.880
802.11ac80	5210	86.240

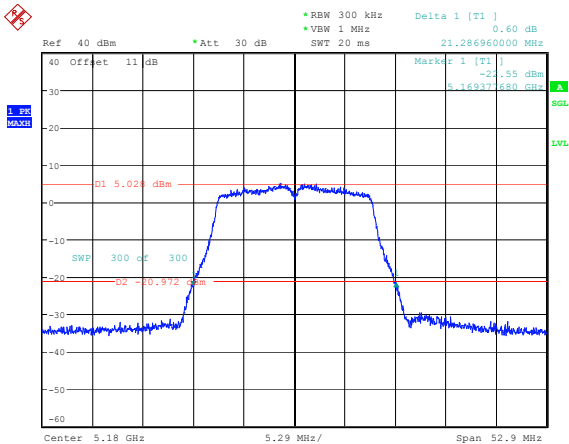
6dB Emission Bandwidth

5725-5850MHz

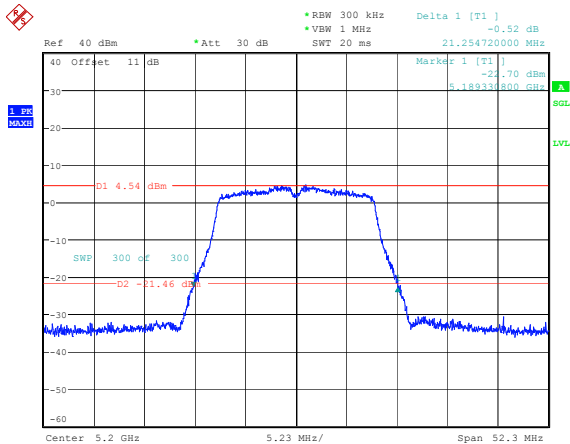
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	15.520	0.5	Pass
	5785	15.200	0.5	Pass
	5825	15.360	0.5	Pass
802.11n20	5745	16.160	0.5	Pass
	5785	15.160	0.5	Pass
	5825	15.760	0.5	Pass
802.11n40	5755	35.840	0.5	Pass
	5795	35.920	0.5	Pass
802.11ac80	5775	75.520	0.5	Pass

5150-5250MHz

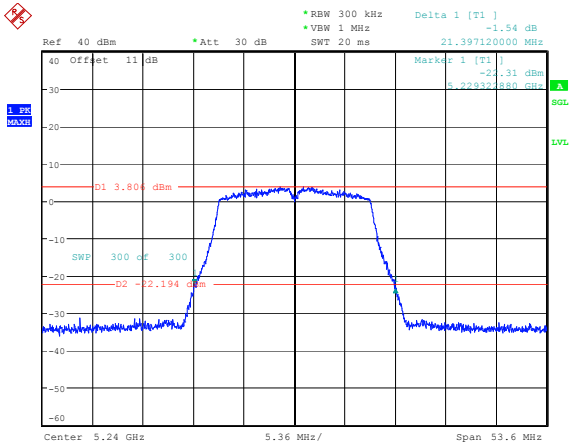
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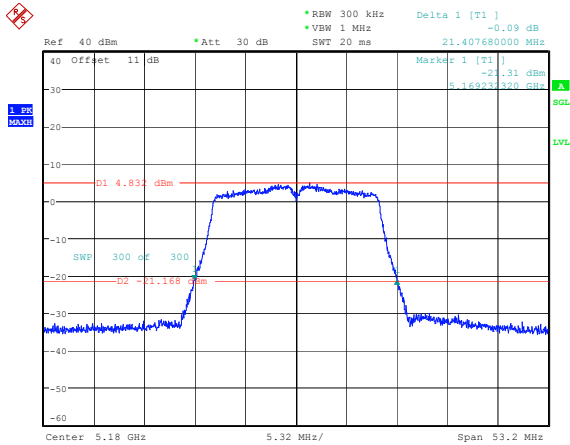
802.11a_5200MHz



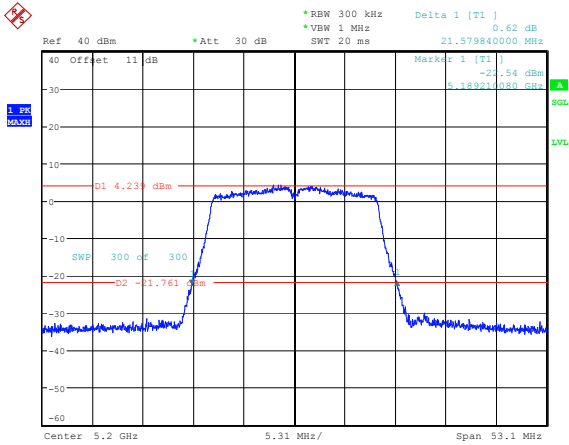
802.11a_5240MHz



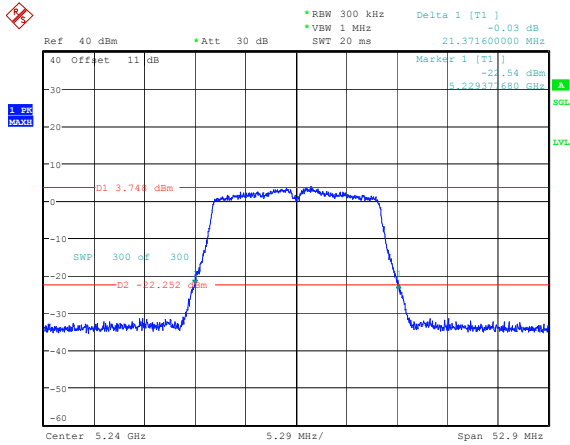
802.11n20_5180MHz



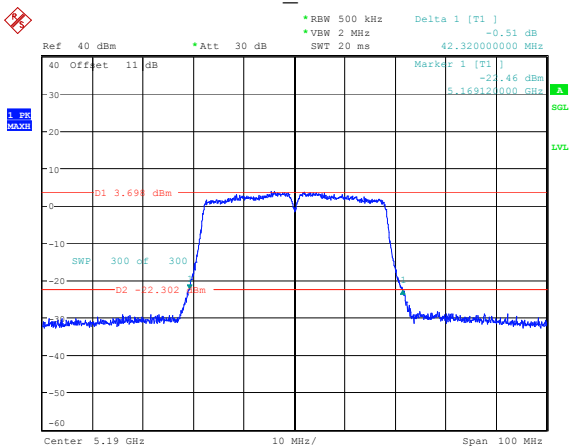
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802.11n20_5240MHz

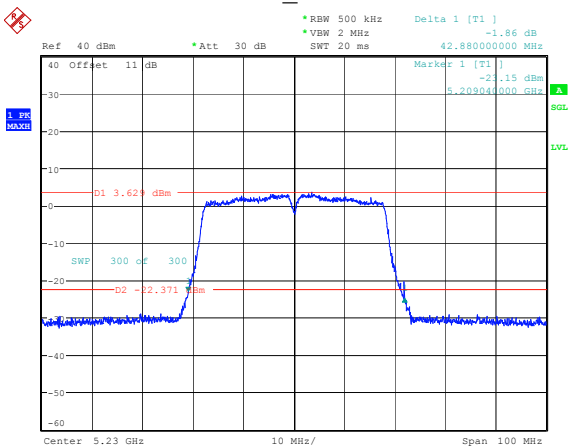


802.11n40_5190MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:21:49

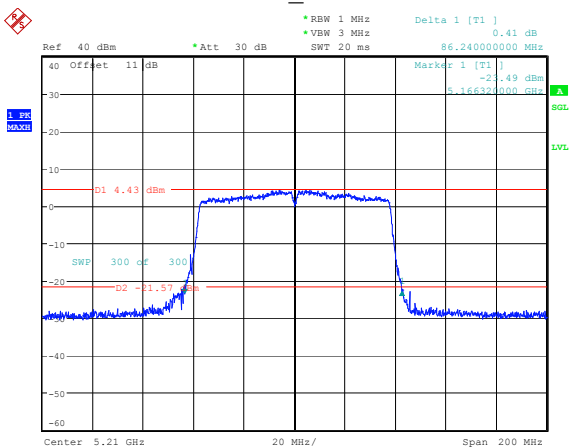
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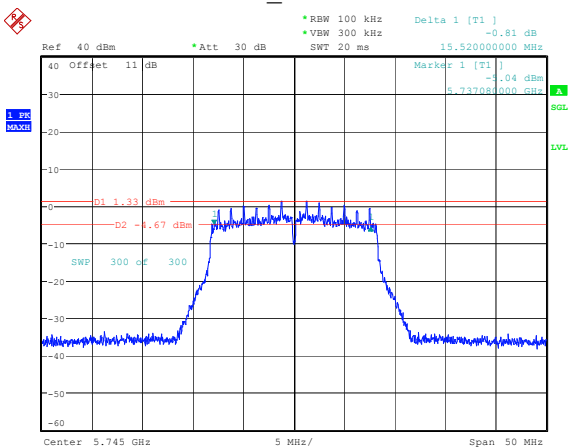
5725-5850MHz

802.11ac80_5210MHz



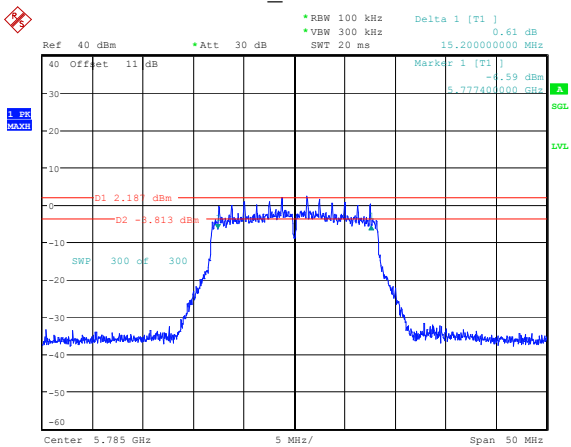
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802.11a_5745MHz



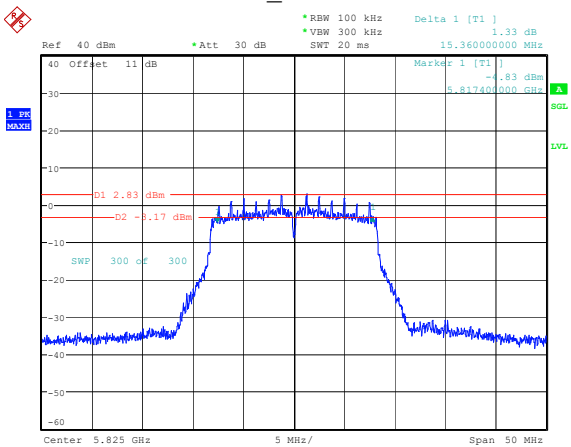
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802.11a_5785MHz



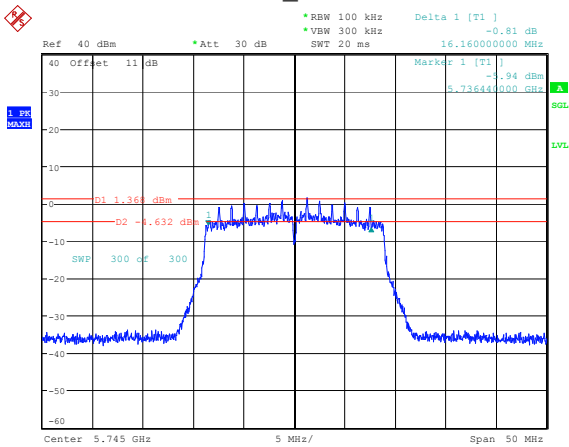
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802.11a_5825MHz



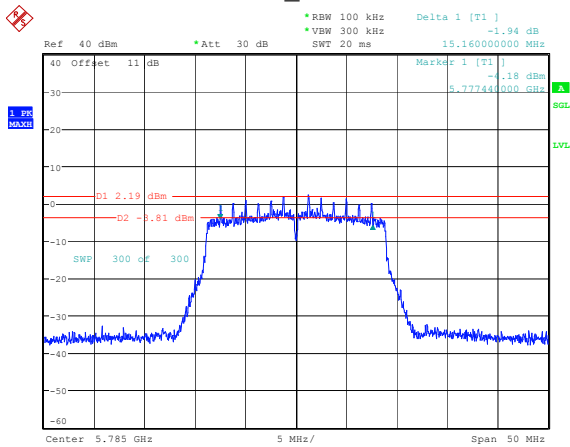
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802.11n20_5745MHz



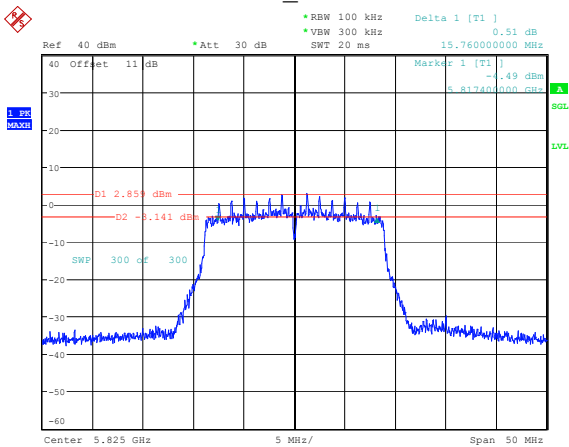
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802.11n20_5785MHz



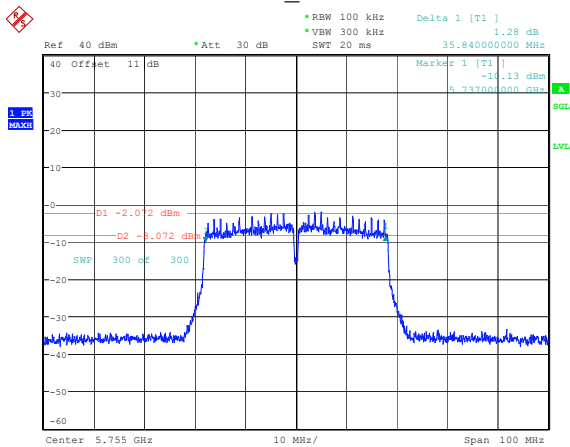
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802.11n20_5825MHz



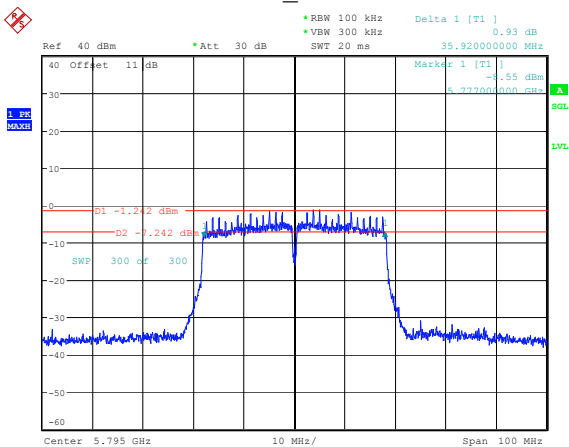
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802.11n40_5755MHz



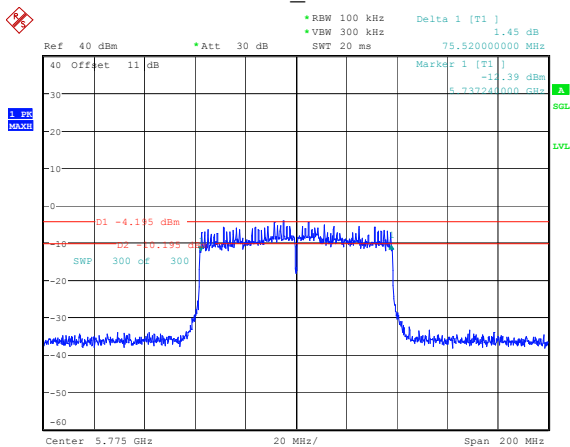
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802.11n40_5795MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:53:36

802.11ac80_5775MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:57:11

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

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.640
	5200	16.640
	5240	16.640
802.11n20	5180	17.720
	5200	17.720
	5240	17.720
802.11n40	5190	36.400
	5230	36.480
802.11ac80	5210	75.840

Note:

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

5725-5850MHz

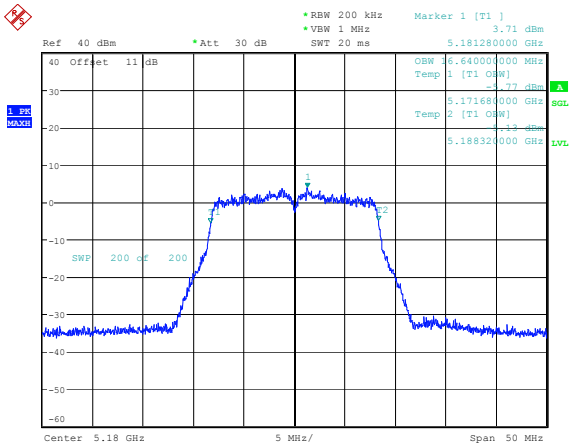
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.680
	5785	16.640
	5825	16.640
802.11n20	5745	17.720
	5785	17.720
	5825	17.720
802.11n40	5755	36.480
	5795	36.400
802.11ac80	5775	75.840

Note:

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

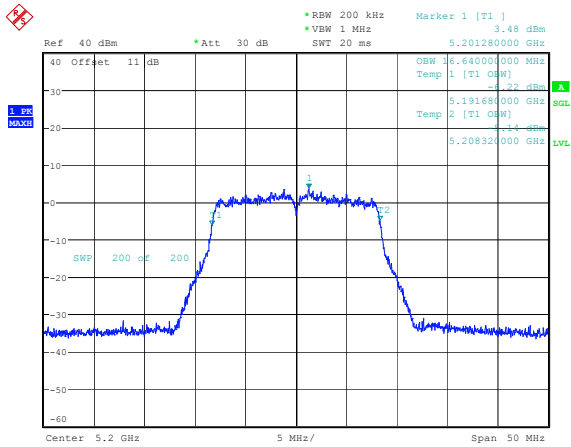
5150-5250MHz

802.11a_5180MHz



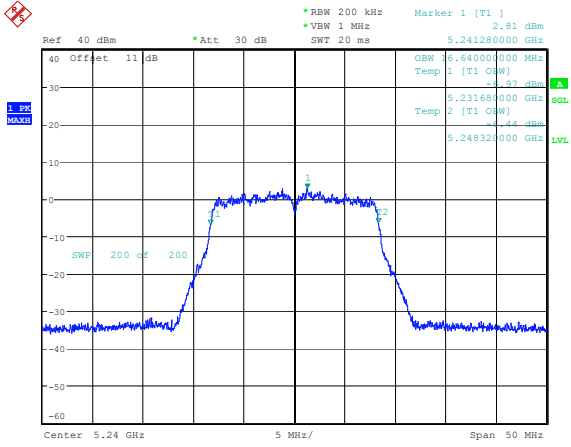
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802.11a_5200MHz



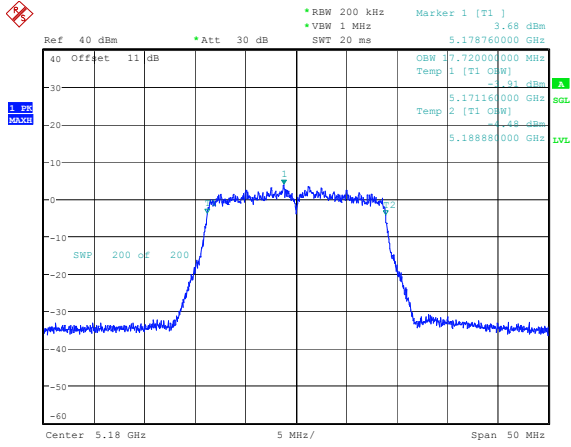
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802.11a_5240MHz



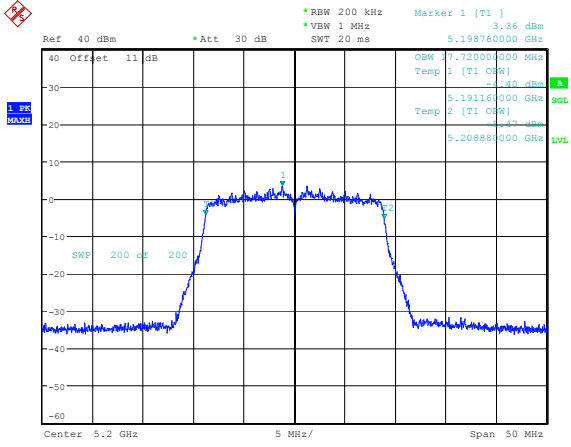
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802.11n20_5180MHz



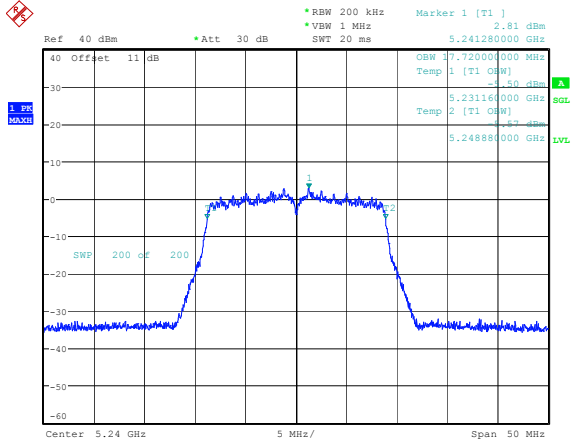
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802.11n20_5200MHz



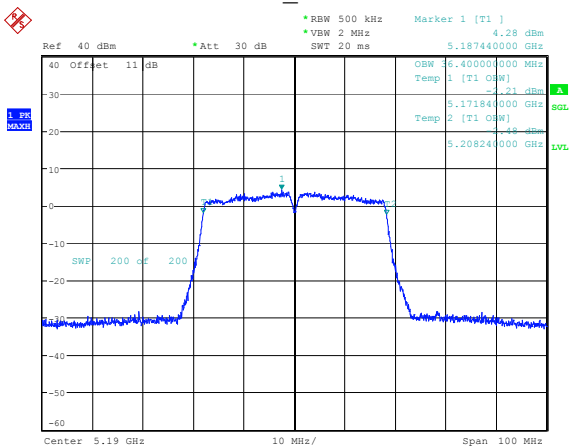
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802.11n20_5240MHz



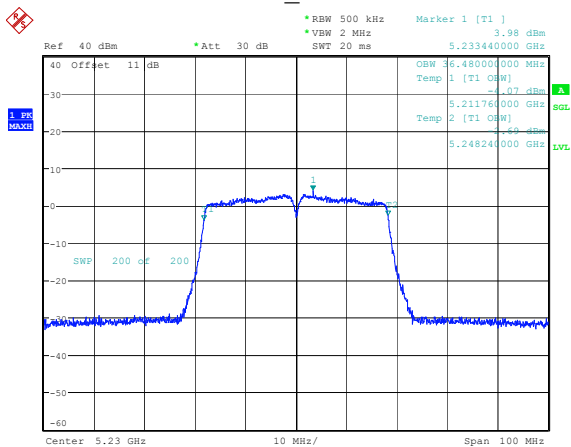
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802.11n40_5190MHz



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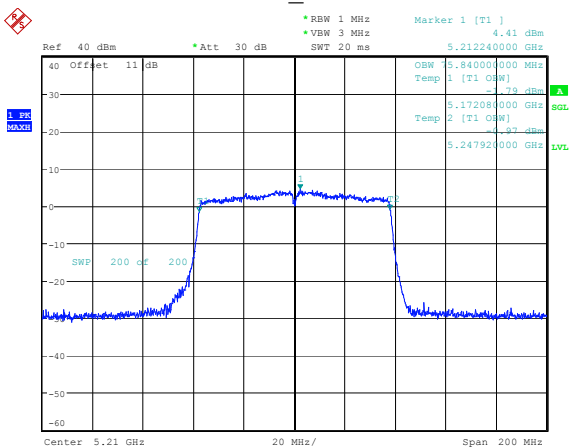
802.11n40_5230MHz



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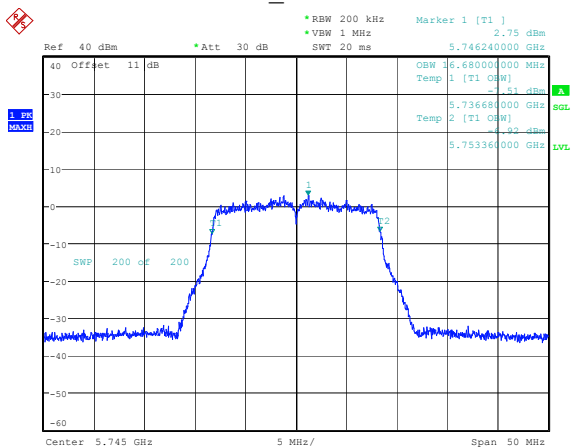
5725-5850MHz

802.11ac80_5210MHz



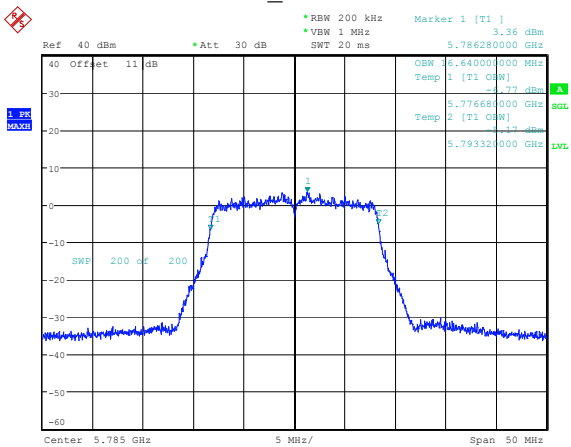
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802.11a_5745MHz



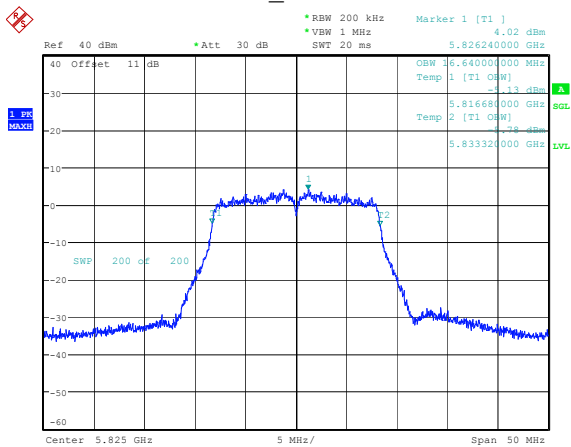
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802.11a_5785MHz



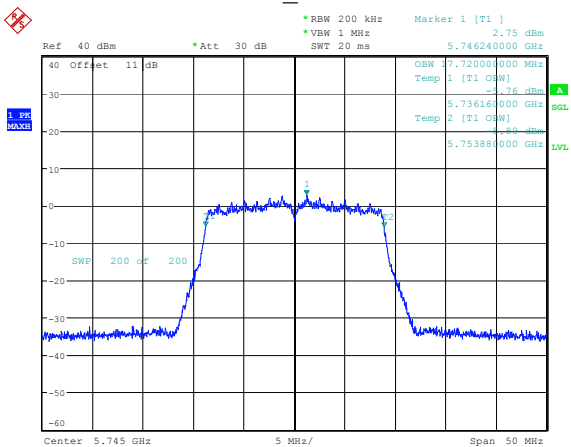
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802.11a_5825MHz



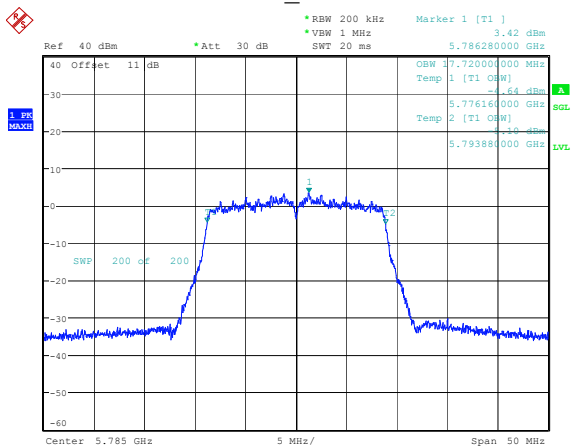
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802.11n20_5745MHz



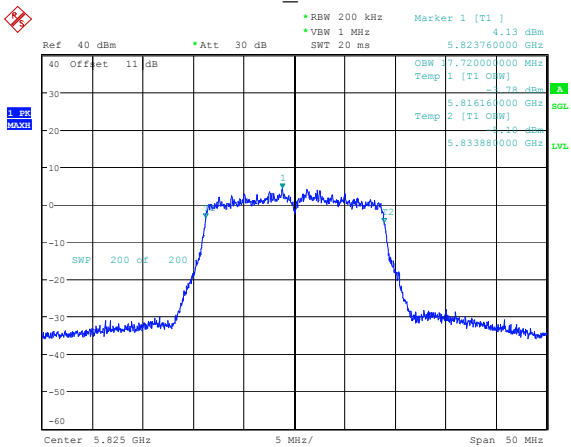
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802.11n20_5785MHz



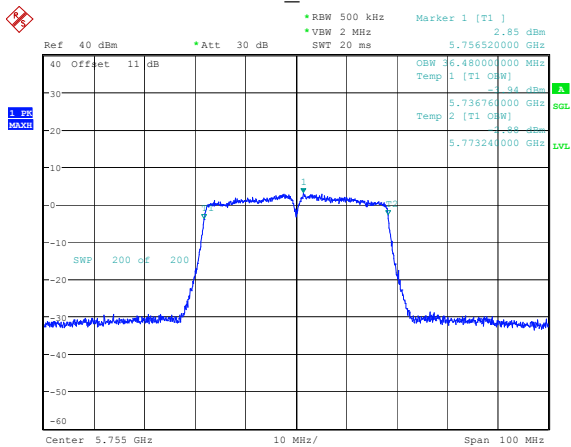
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802.11n20_5825MHz



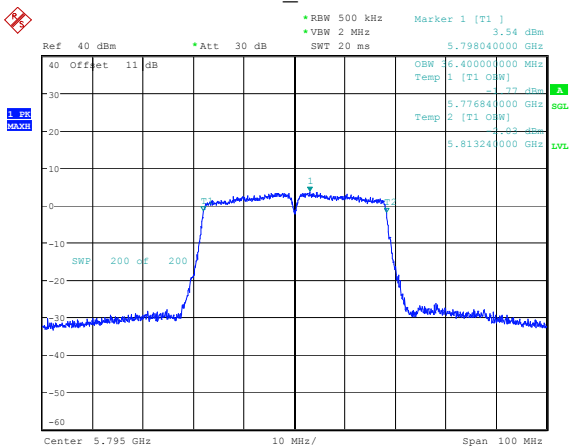
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802.11n40_5755MHz



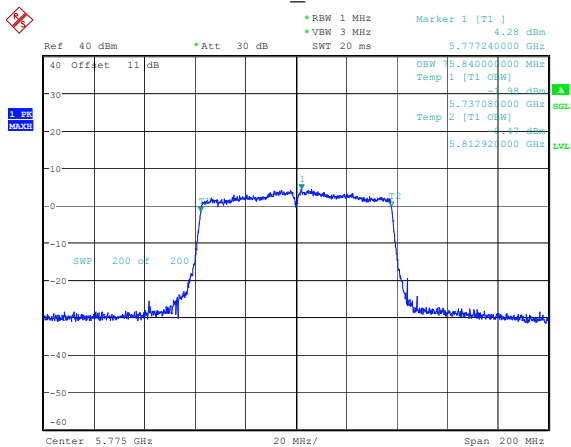
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802.11n40_5795MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:54:10

802.11ac80_5775MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:57:48

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

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	11.22	24	Pass
		5200	10.89	24	Pass
		5240	10.32	24	Pass
802.11n20	Chain 0	5180	11.04	24	Pass
		5200	10.73	24	Pass
		5240	10.15	24	Pass
802.11n40	Chain 0	5190	10.97	24	Pass
		5230	10.45	24	Pass
802.11ac80	Chain 0	5210	9.65	24	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	10.1	30	Pass
		5785	10.76	30	Pass
		5825	11.51	30	Pass
802.11n20	Chain 0	5745	9.94	30	Pass
		5785	10.61	30	Pass
		5825	11.34	30	Pass
802.11n40	Chain 0	5755	9.98	30	Pass
		5795	10.74	30	Pass
802.11ac80	Chain 0	5775	9.33	30	Pass

Power Spectral Density**5150-5250MHz**

Mode	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	5180	1.08	0.12	1.20	11	Pass
	5200	0.80	0.12	0.92	11	Pass
	5240	0.22	0.12	0.34	11	Pass
802.11n20	5180	0.75	0.13	0.88	11	Pass
	5200	0.45	0.13	0.58	11	Pass
	5240	-0.09	0.13	0.04	11	Pass
802.11n40	5190	-1.88	0.25	-1.63	11	Pass
	5230	-2.47	0.25	-2.22	11	Pass
802.11ac80	5210	-6.07	0.40	-5.67	11	Pass

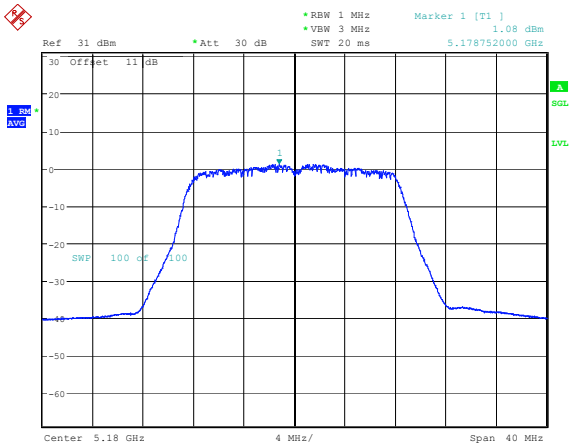
5725-5850MHz

Mode	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	5745	-2.77	0.12	-2.65	30	Pass
	5785	-2.20	0.12	-2.08	30	Pass
	5825	-1.47	0.12	-1.35	30	Pass
802.11n20	5745	-3.11	0.13	-2.98	30	Pass
	5785	-2.39	0.13	-2.26	30	Pass
	5825	-1.72	0.13	-1.59	30	Pass
802.11n40	5755	-6.05	0.25	-5.9	30	Pass
	5795	-5.23	0.25	-4.98	30	Pass
802.11ac80	5775	-9.50	0.40	-9.1	30	Pass

Result = Reading + Duty Cycle Factor

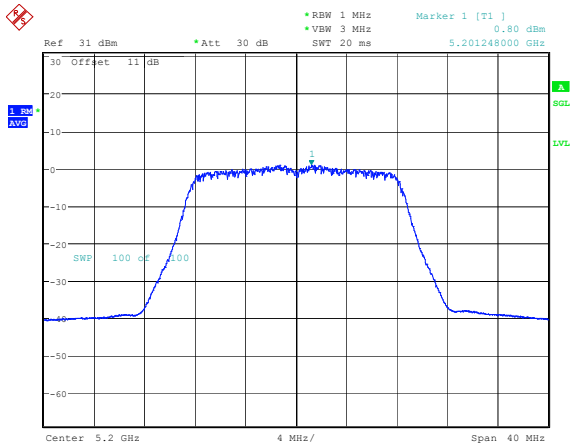
5150-5250MHz

802.11a_5180MHz



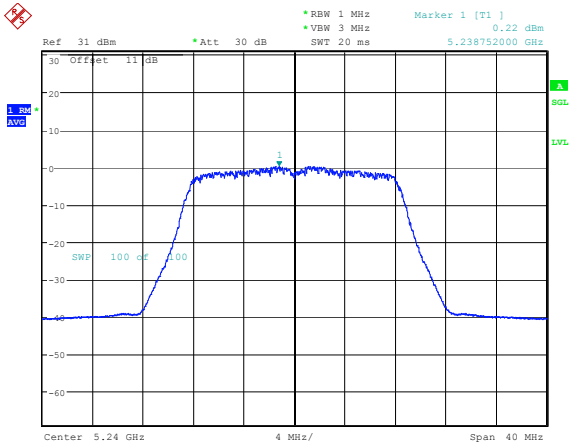
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802.11a_5200MHz



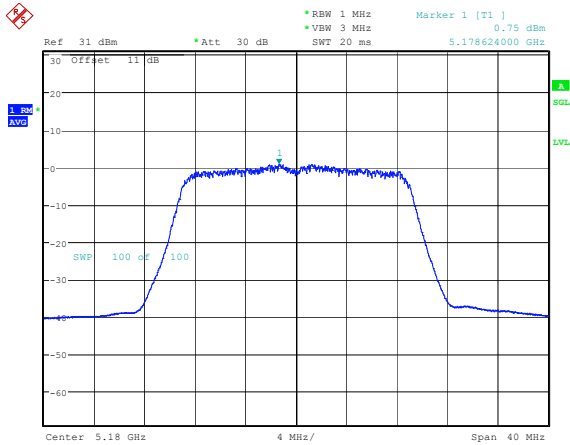
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802.11a_5240MHz



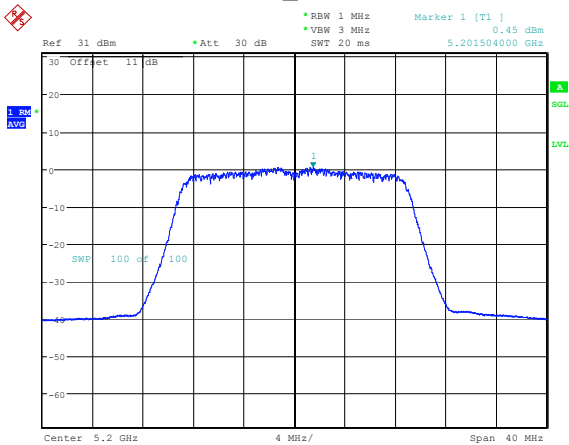
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802.11n20_5180MHz



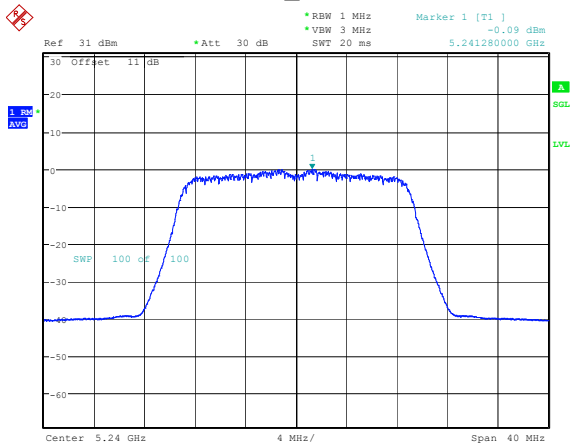
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802.11n20_5200MHz



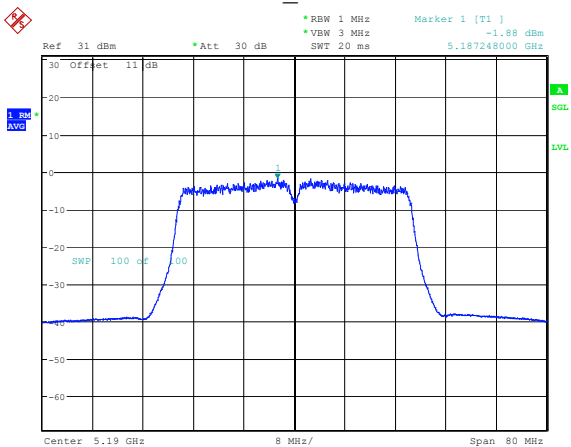
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802.11n20_5240MHz



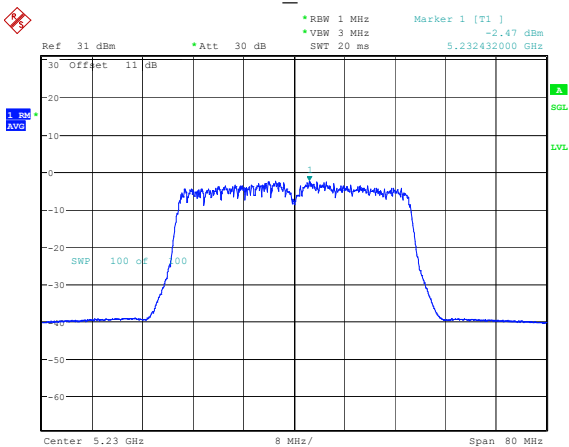
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Date: 23.JAN.2025 18:19:21

802.11n40_5190MHz



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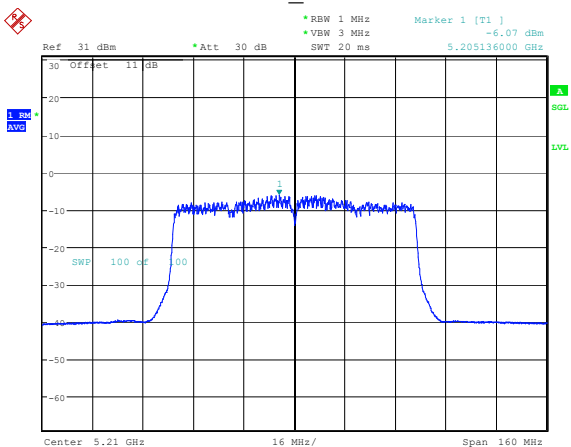
802.11n40_5230MHz



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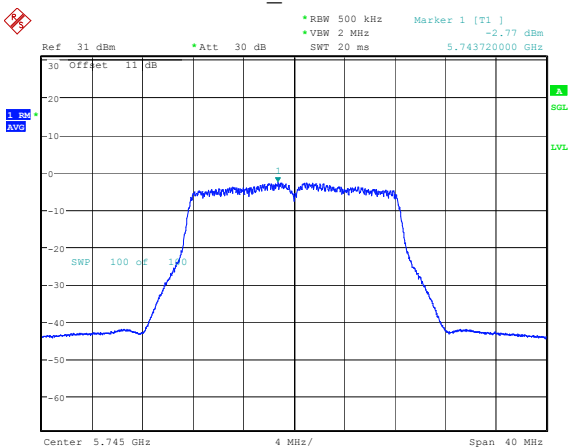
5725-5850MHz

802.11ac80_5210MHz



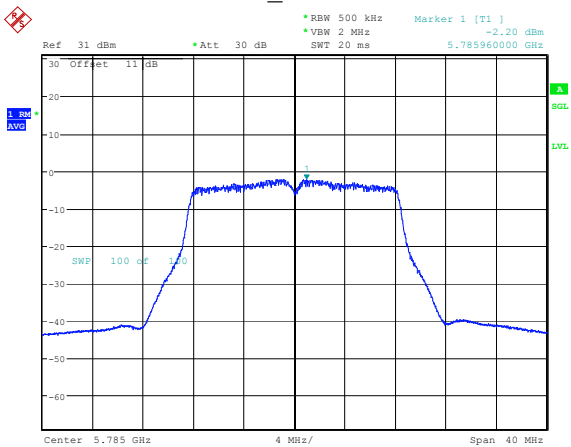
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802.11a_5745MHz



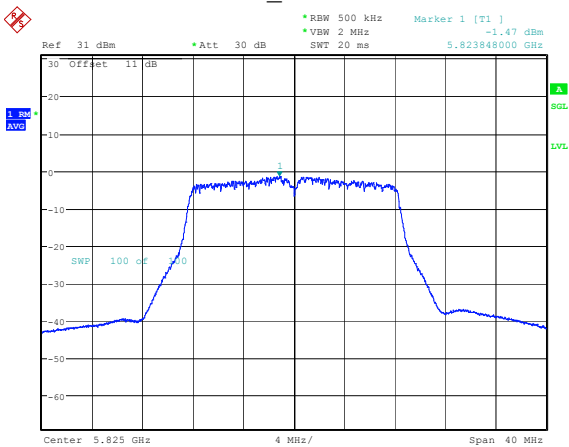
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802.11a_5785MHz



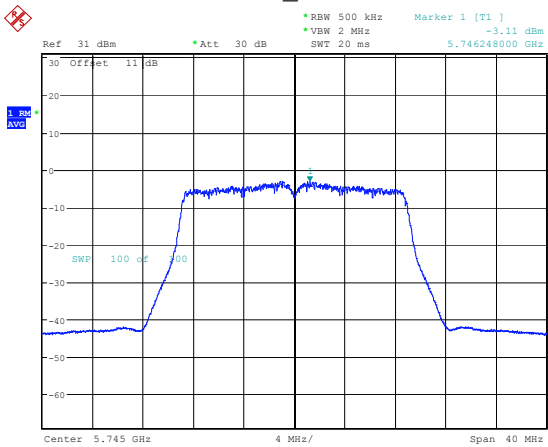
Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:37:23

802.11a_5825MHz



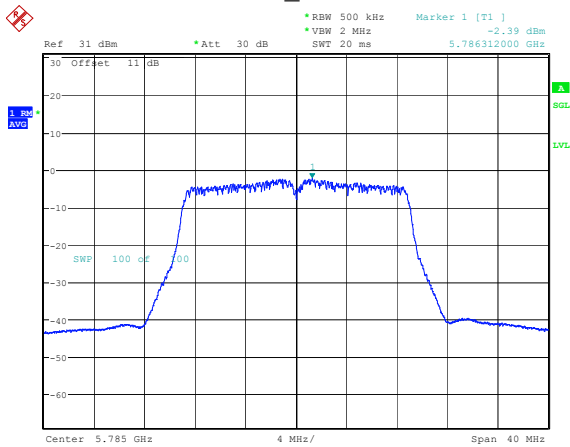
Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:39:10

802.11n20_5745MHz



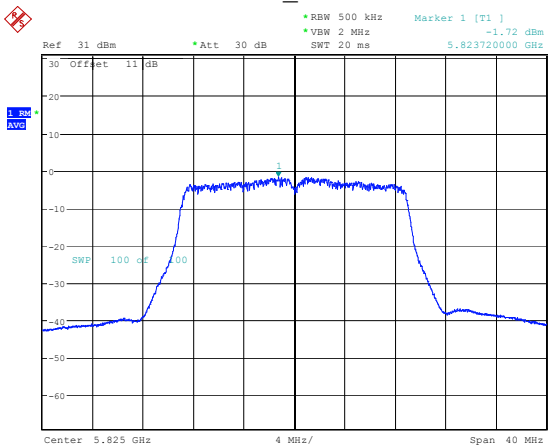
Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:41:18

802.11n20_5785MHz



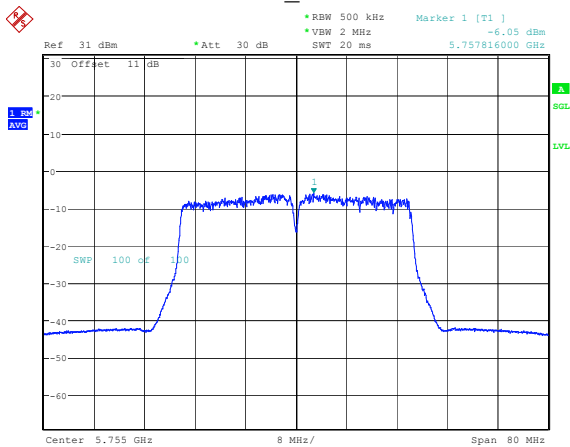
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Date: 23.JAN.2025 18:43:51

802.11n20_5825MHz



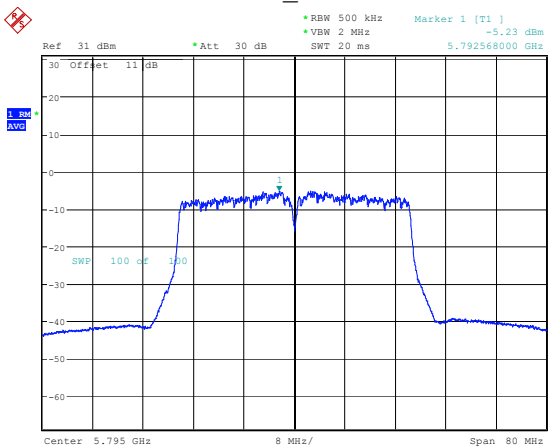
Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:45:43

802.11n40_5755MHz



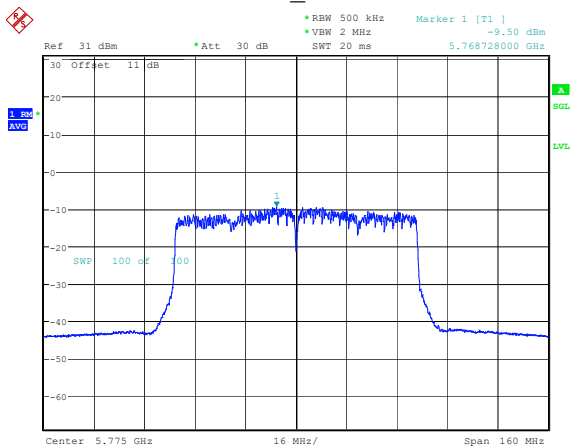
Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:52:36

802.11n40_5795MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:54:54

802.11ac80_5775MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:58:43

Duty Cycle

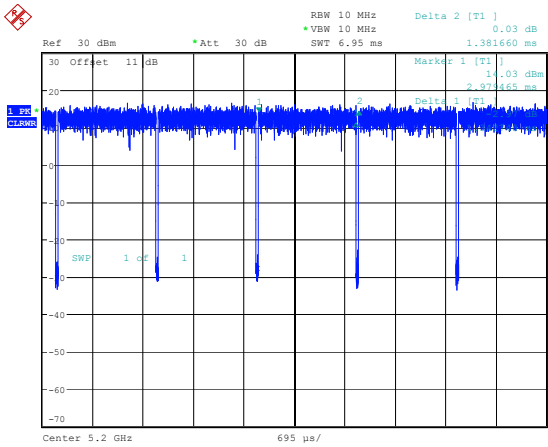
5150-5250MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	1.343	1.382	97.18	0.12	745	1
802.11n20	5200	1.258	1.297	96.99	0.13	795	1
802.11n40	5190	0.627	0.664	94.43	0.25	1595	2
802.11ac80	5210	0.320	0.351	91.17	0.40	3125	5

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

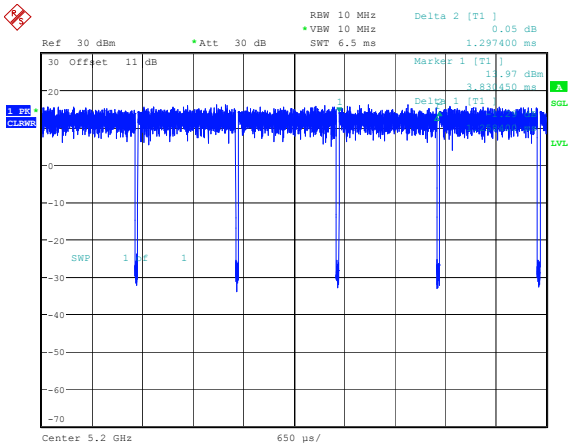
5150-5250MHz

802.11a_5200MHz



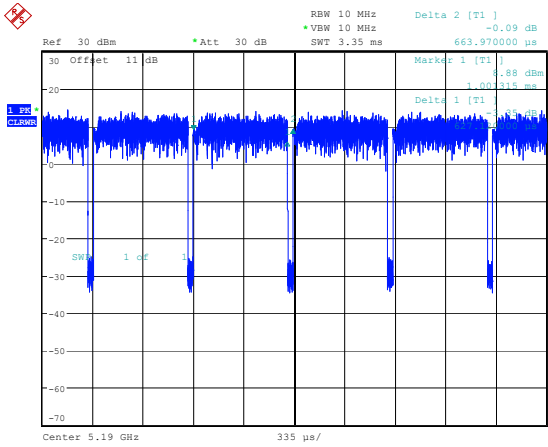
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Date: 23.JAN.2025 18:04:09

802.11n20_5200MHz



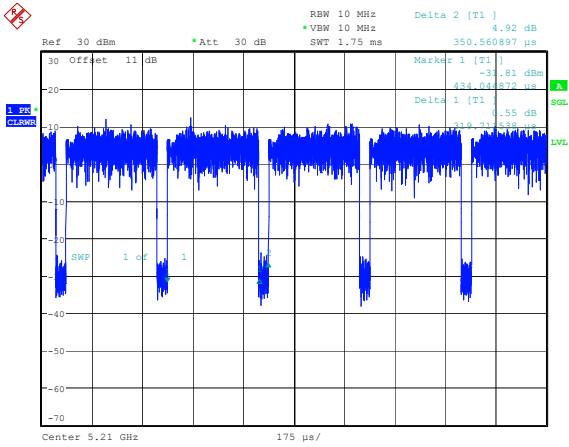
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Date: 23.JAN.2025 18:12:43

802.11n40_5190MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:23:30

802.11ac80_5210MHz



Comment: ProjectNo.:2503P42192E-RF Tester:Lingling Li
Date: 23.JAN.2025 18:24:56