

Test Information:

Sample No.:	2TLH-2	Test Date:	2024/11/08~2024/11/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Lingling Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	26.2-26.5	Relative Humidity: (%)	52-53	ATM Pressure: (kPa)	100.3-100.9
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	100147	2024/04/01	2025/03/31
zhuoxiang	Coaxial Cable	SMA-178	211003	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	21.500
		5200	21.463
		5240	21.503
802.11n20	Chain 0	5180	21.783
		5200	21.770
		5240	21.566
802.11n40	Chain 0	5190	40.160
		5230	40.240
802.11ac80	Chain 0	5210	81.760

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5260	21.588
		5280	21.506
		5320	21.546
802.11n20	Chain 0	5260	21.869
		5280	21.702
		5320	21.590
802.11n40	Chain 0	5270	40
		5310	40.320
802.11ac80	Chain 0	5290	82.880

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11a	Chain 0	5500	21.714
		5580	21.670
		5700	21.585
		5720	21.629
802.11n20	Chain 0	5500	21.833
		5580	21.735

Mode	Antenna	Test Frequency (MHz)	Result (MHz)
802.11n20	Chain 0	5700	21.702
		5720	21.778
802.11n40	Chain 0	5510	39.920
		5550	40.160
		5670	40
		5710	39.840
802.11ac80	Chain 0	5530	81.920
		5610	81.920
		5690	81.280

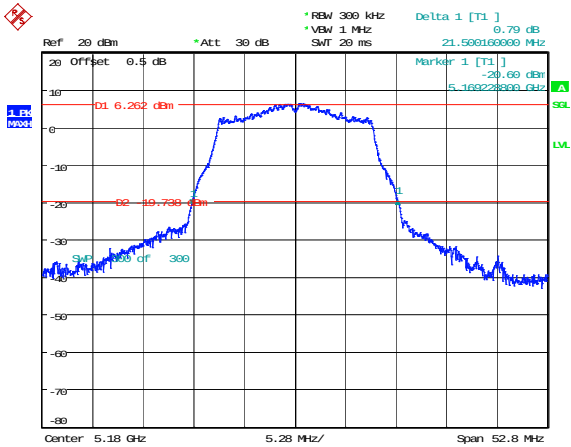
6dB Emission Bandwidth

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	Chain 0	5745	16.120	0.5	Pass
		5785	16.080	0.5	Pass
		5825	15.880	0.5	Pass
802.11n20	Chain 0	5745	16.840	0.5	Pass
		5785	16.960	0.5	Pass
		5825	17	0.5	Pass
802.11n40	Chain 0	5755	35.680	0.5	Pass
		5795	35.360	0.5	Pass
802.11ac80	Chain 0	5775	75.520	0.5	Pass

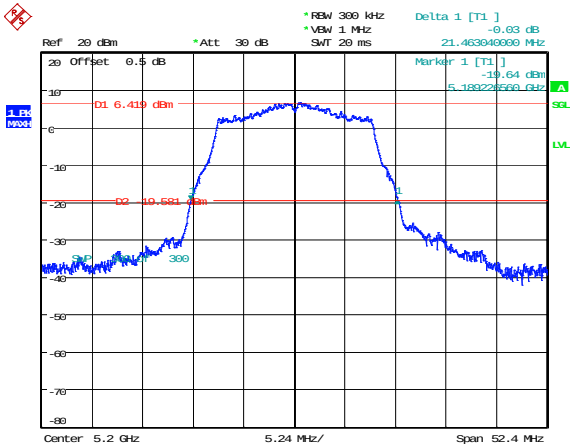
5150-5250MHz

802.11a_5180MHz 21.500MHz



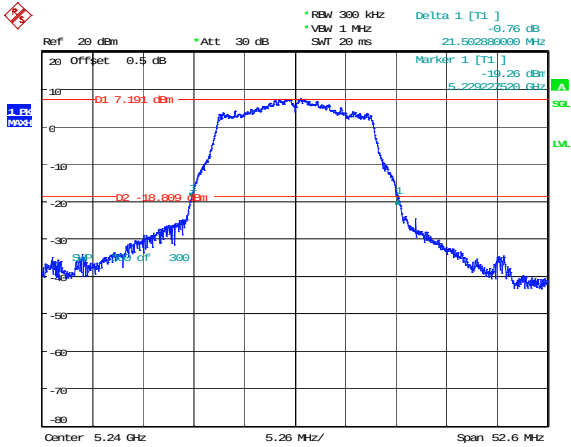
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802.11a_5200MHz 21.463MHz



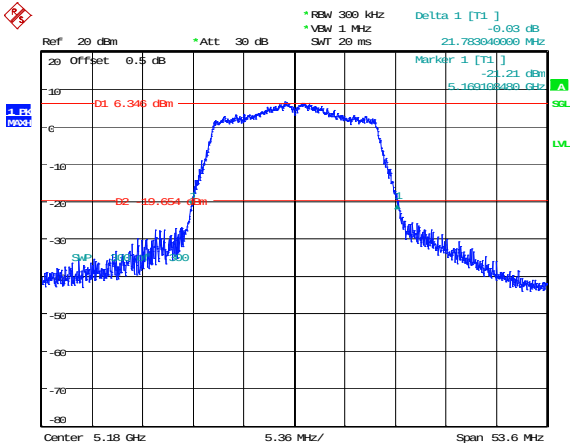
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802.11a_5240MHz 21.503MHz



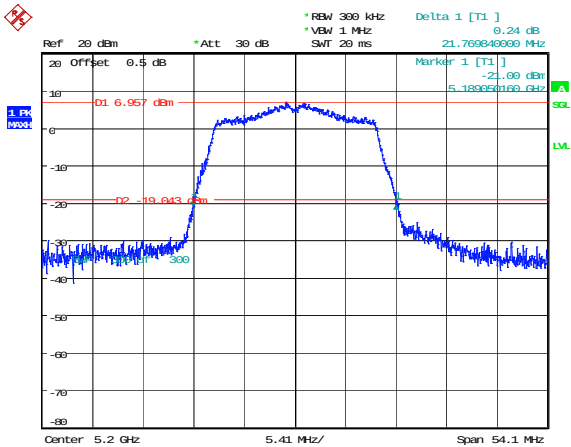
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802.11n20_5180MHz 21.783MHz



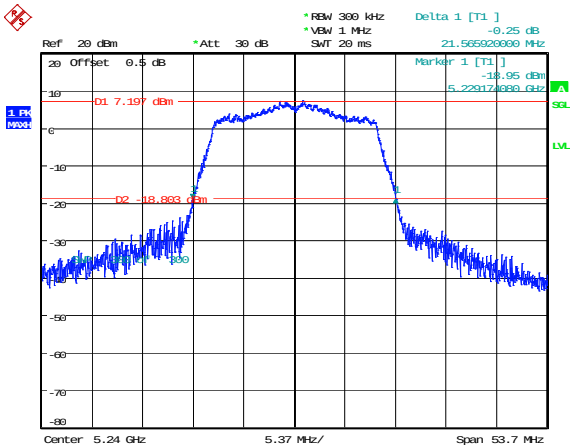
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802.11n20_5200MHz 21.770MHz



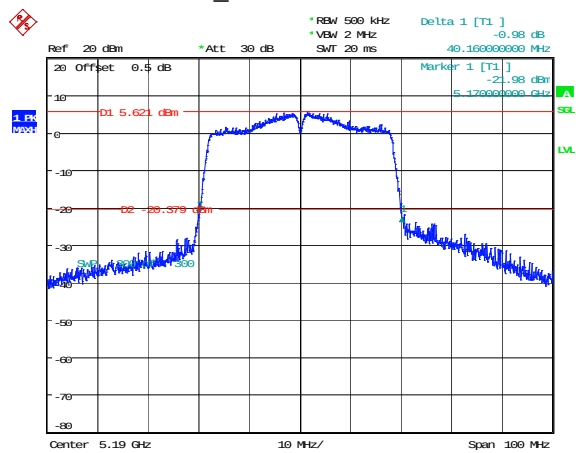
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802.11n20_5240MHz 21.566MHz



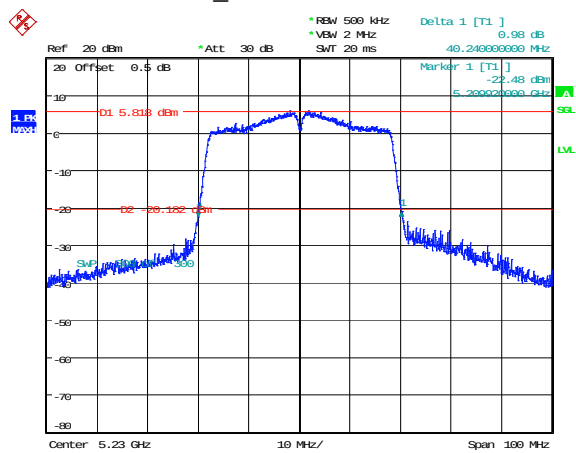
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802.11n40_5190MHz 40.160MHz



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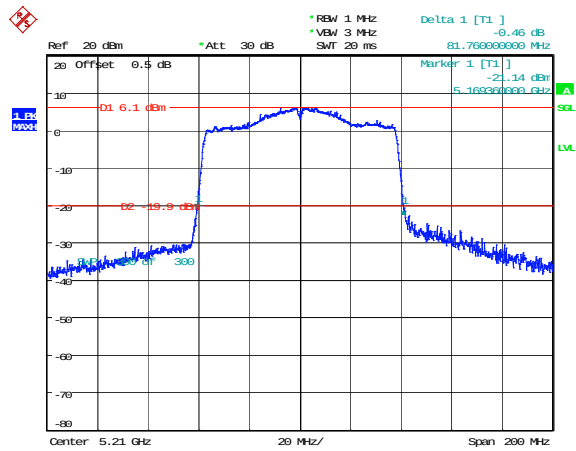
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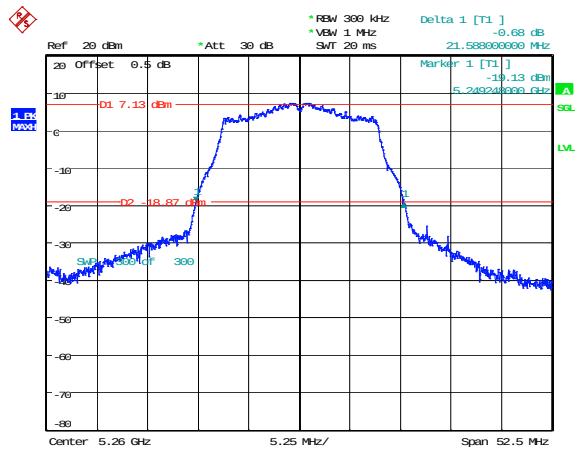
5250-5350MHz

802.11ac80_5210MHz 81.760MHz



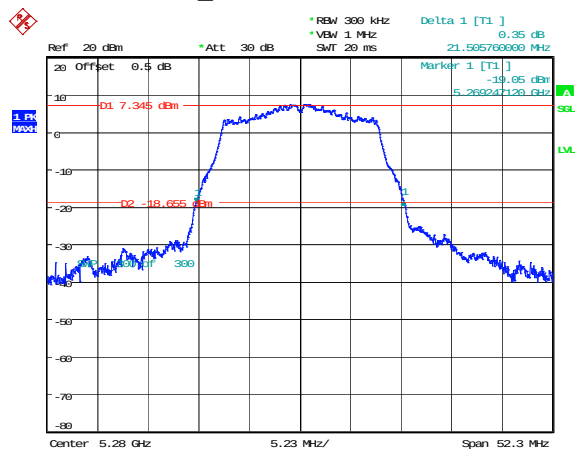
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802.11a_5260MHz 21.588MHz



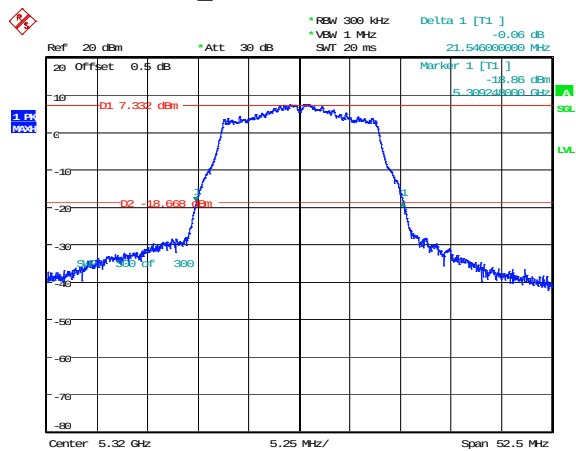
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802.11a_5280MHz 21.506MHz



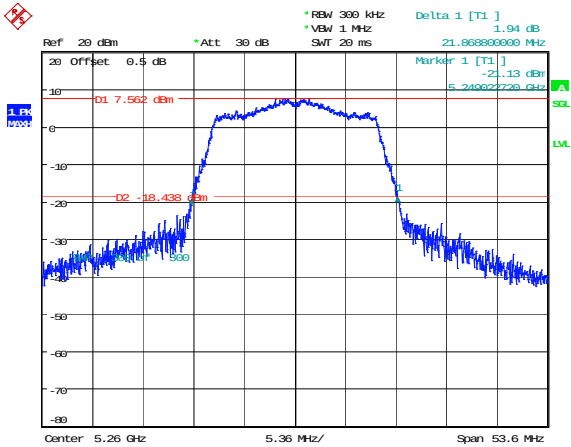
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802.11a_5320MHz 21.546MHz



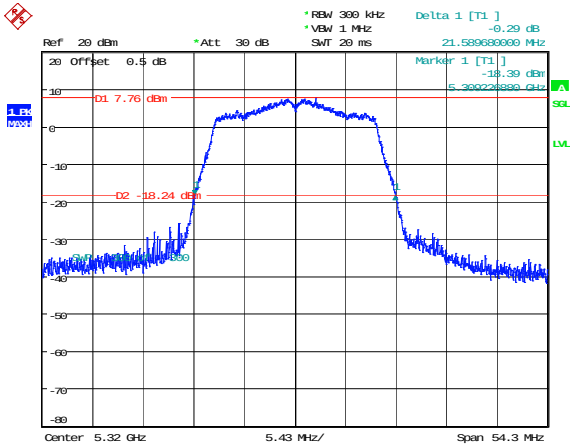
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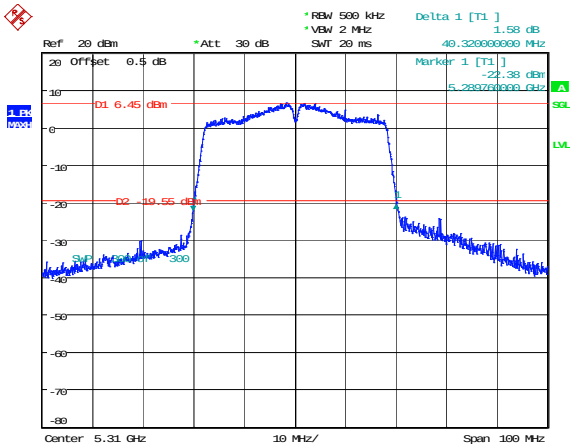
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802.11n20_5320MHz 21.590MHz



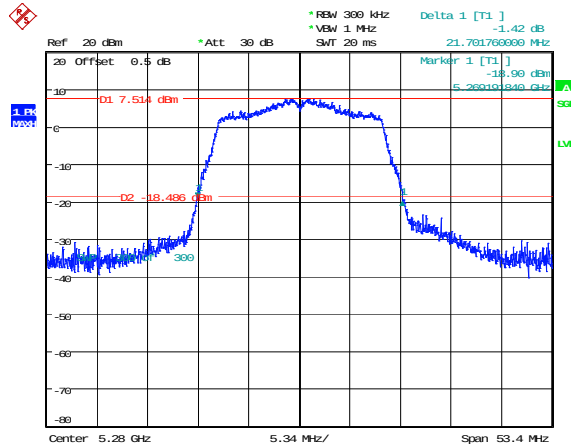
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802.11n40_5310MHz 40.320MHz



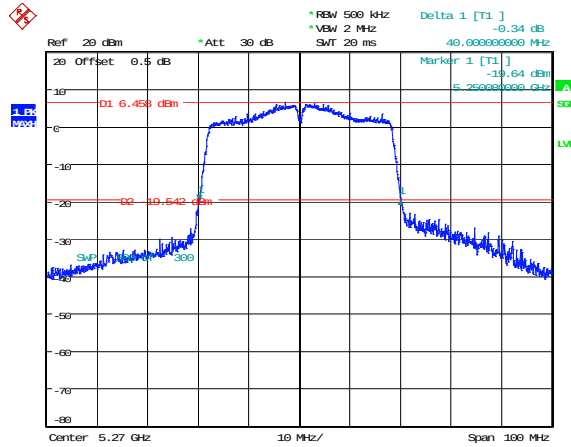
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802.11n20_5280MHz 21.702MHz



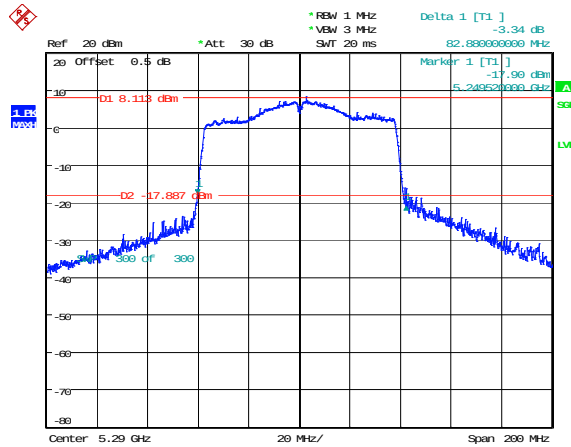
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802.11n40_5270MHz 40MHz



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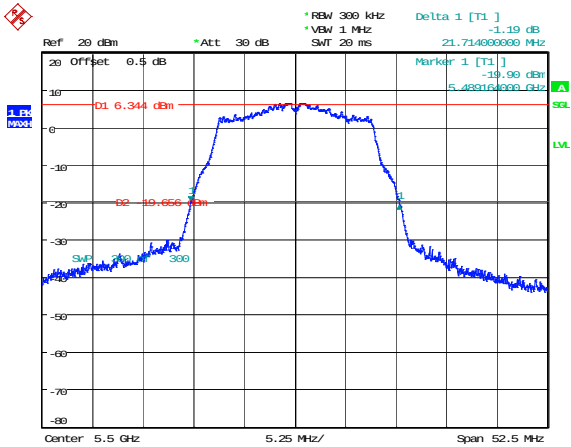
802.11ac80_5290MHz 82.880MHz



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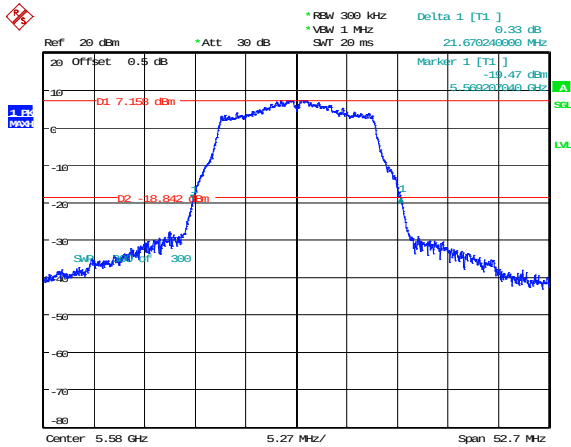
5470-5725MHz

802.11a_5500MHz 21.714MHz



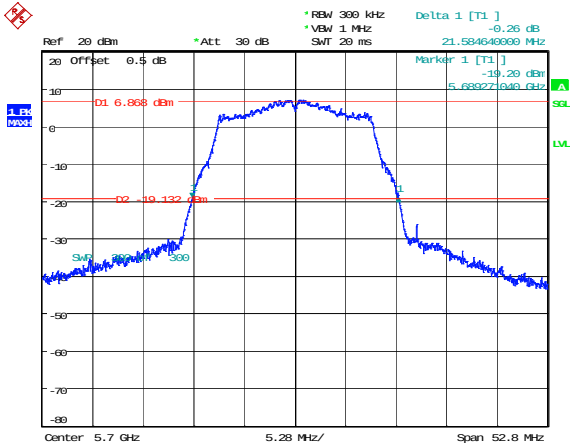
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802.11a_5580MHz 21.670MHz



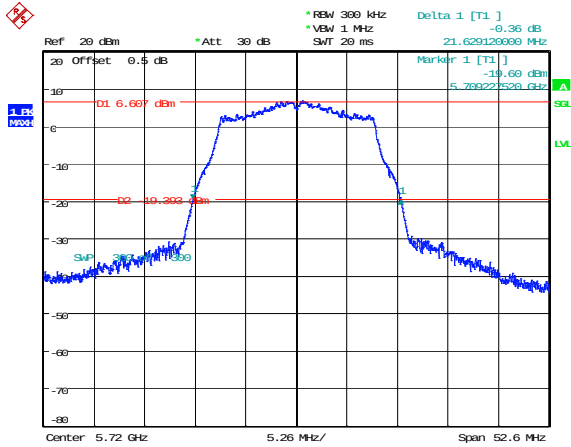
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802.11a_5700MHz 21.585MHz



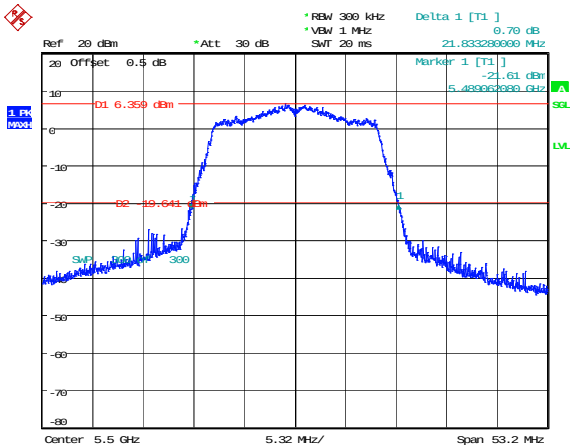
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802.11a_5720MHz 21.629MHz



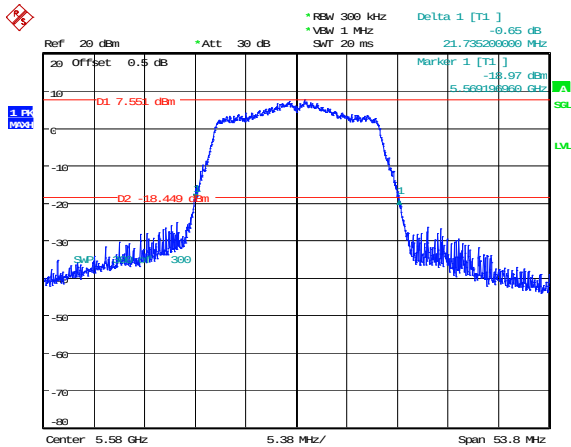
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802.11n20_5500MHz 21.833MHz



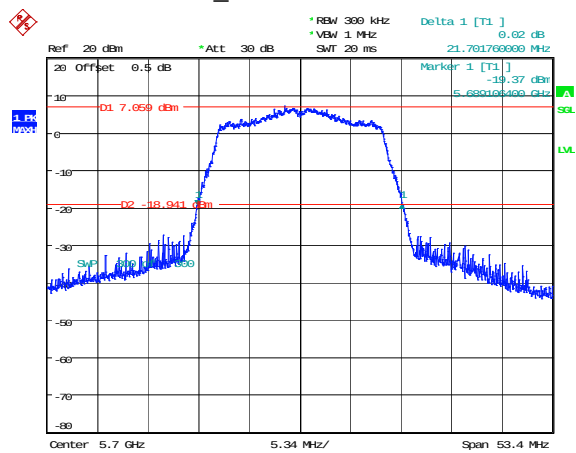
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802.11n20_5580MHz 21.735MHz



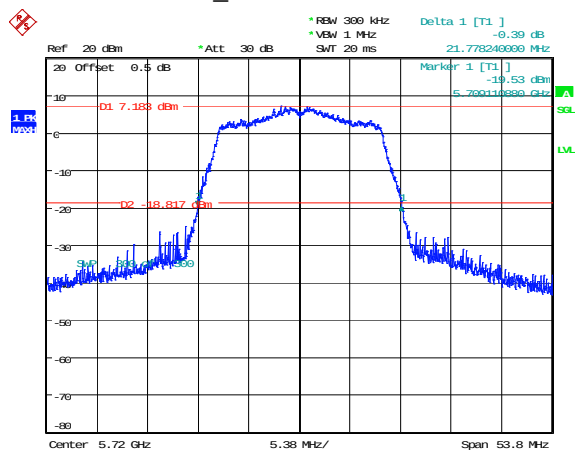
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802.11n20_5700MHz 21.702MHz



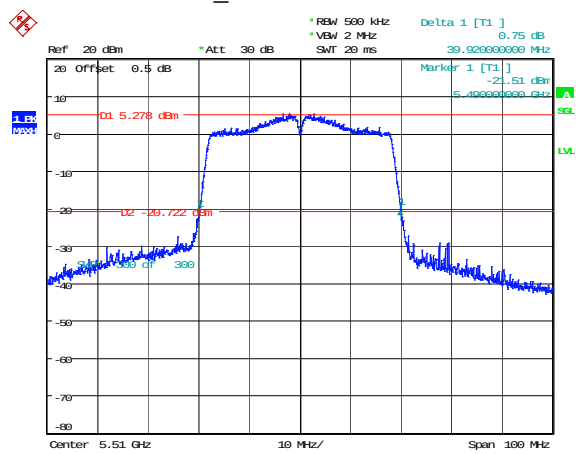
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802.11n20_5720MHz 21.778MHz



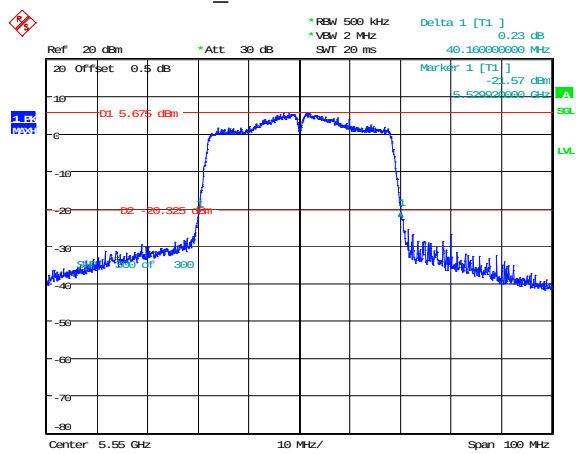
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802.11n40_5510MHz 39.920MHz



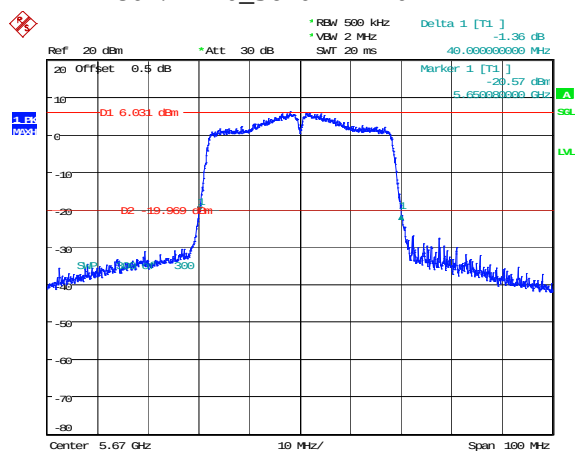
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802.11n40_5550MHz 40.160MHz



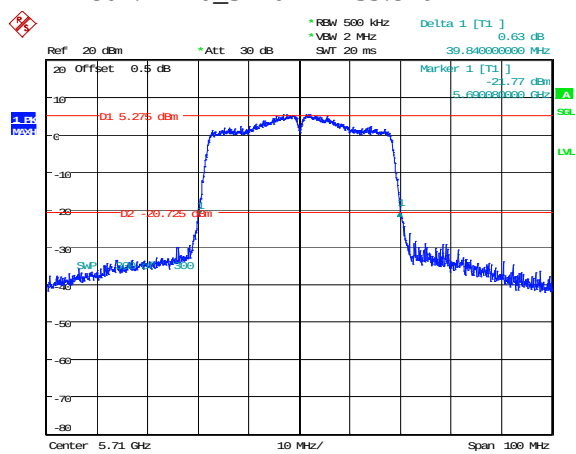
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802.11n40_5670MHz 40MHz



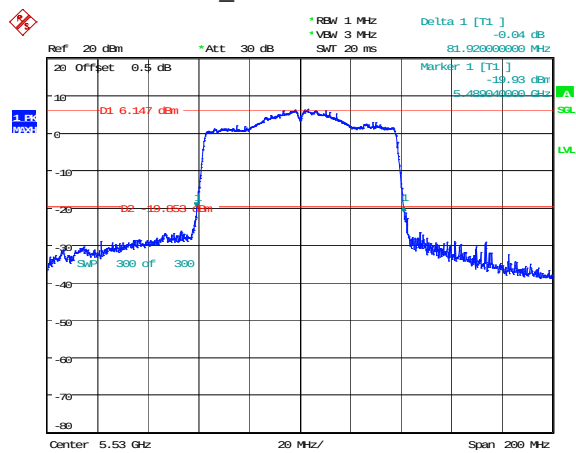
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802.11n40_5710MHz 39.840MHz



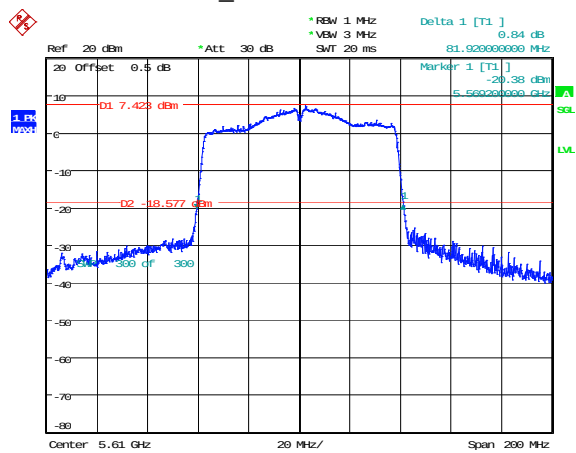
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802.11ac80_5530MHz 81.920MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
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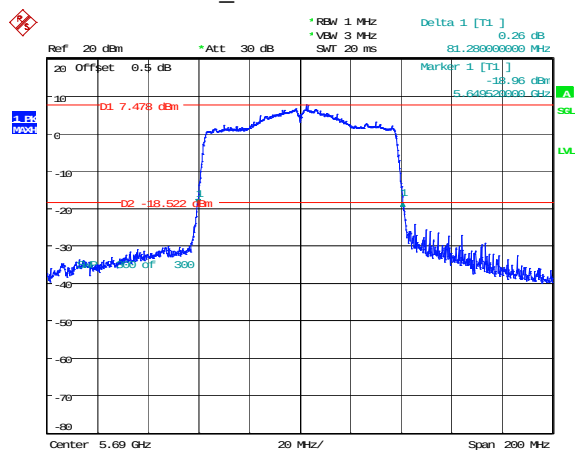
802.11ac80_5610MHz 81.920MHz



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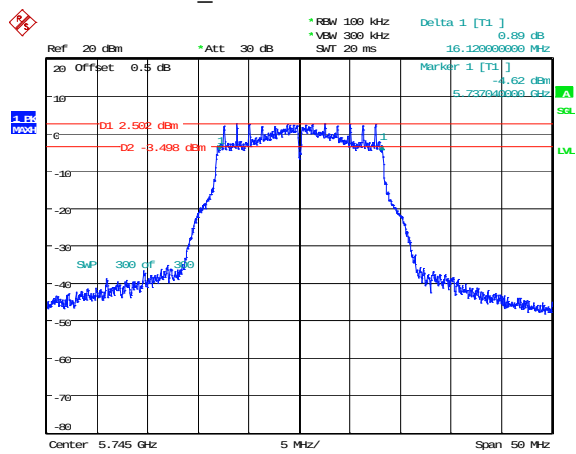
5725-5850MHz

802.11ac80_5690MHz 81.280MHz



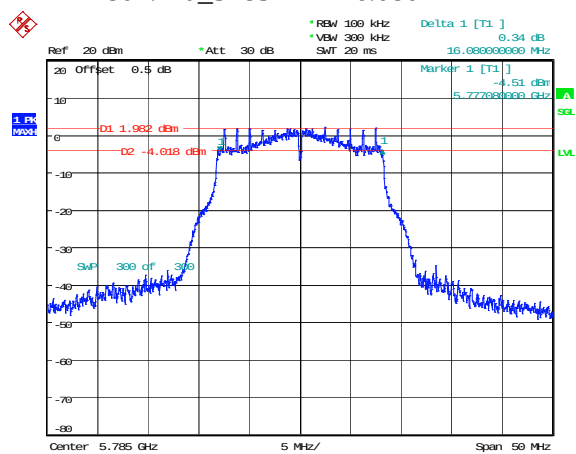
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802.11a_5745MHz 16.120MHz



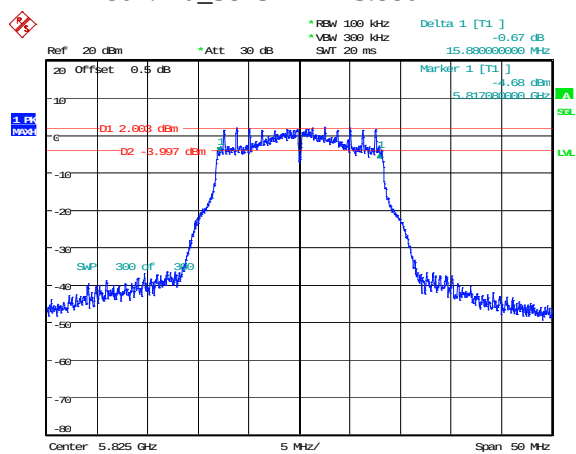
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802.11a_5785MHz 16.080MHz



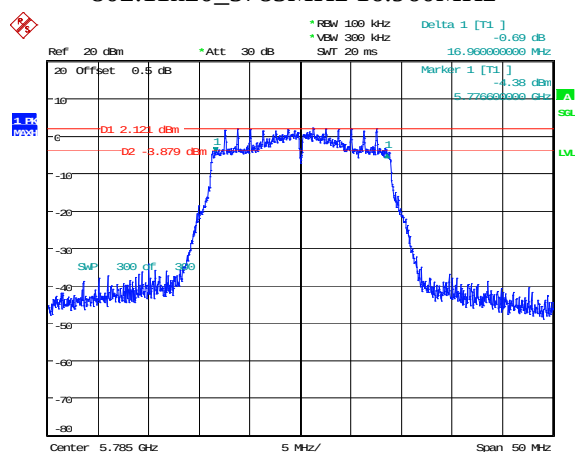
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802.11a_5825MHz 15.880MHz



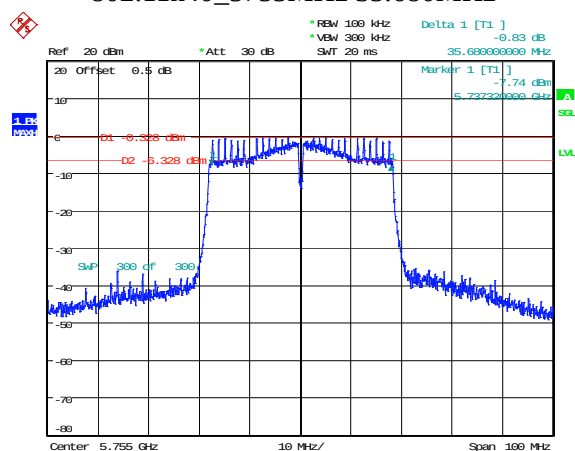
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802.11n20_5785MHz 16.960MHz



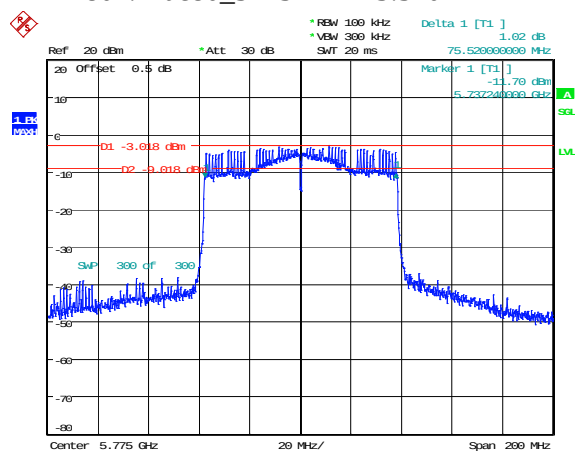
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802.11n40 5755MHz 35.680MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 9.NOV.2024 16:43:42

802.11ac80 5775MHz 75.520MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 9.NOV.2024 16:28:08

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

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.600
		5200	16.640
		5240	16.600
802.11n20	Chain 0	5180	17.720
		5200	17.720
		5240	17.720
802.11n40	Chain 0	5190	36.320
		5230	36.240
802.11ac80	Chain 0	5210	75.360

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	16.640
		5280	16.600
		5320	16.600
802.11n20	Chain 0	5260	17.760
		5280	17.760
		5320	17.720
802.11n40	Chain 0	5270	36.320
		5310	36.160
802.11ac80	Chain 0	5290	75.360

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5500	16.600
		5580	16.600
		5700	16.640
		5720	16.640
802.11n20	Chain 0	5500	17.760

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11n20	Chain 0	5580	17.760
		5700	17.720
		5720	17.720
802.11n40	Chain 0	5510	36.320
		5550	36.240
		5670	36.240
		5710	36.240
802.11ac80	Chain 0	5530	75.520
		5610	75.360
		5690	75.360

5725-5850MHz

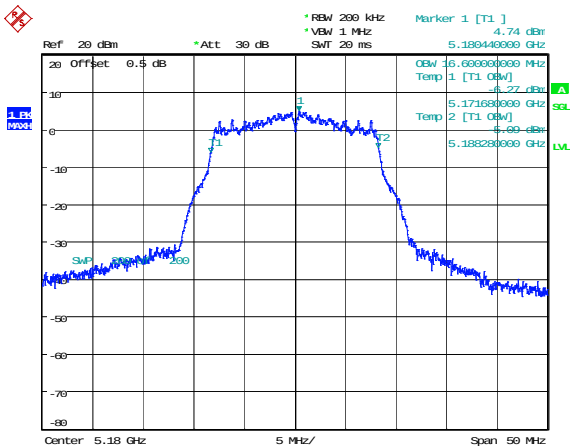
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	16.640
		5785	16.600
		5825	16.600
802.11n20	Chain 0	5745	17.760
		5785	17.720
		5825	17.720
802.11n40	Chain 0	5755	36.320
		5795	36.320
802.11ac80	Chain 0	5775	75.360

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

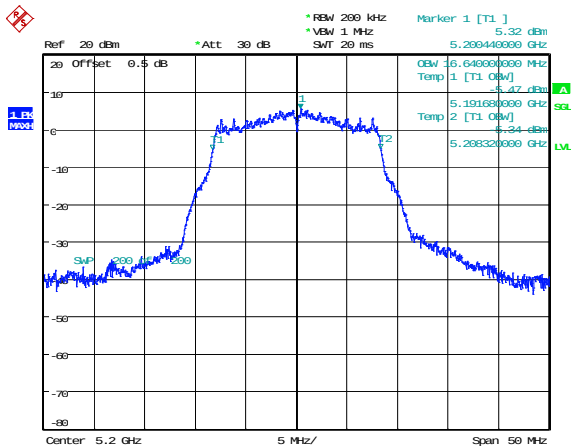
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Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li

Date: 8.NOV.2024 14:34:32

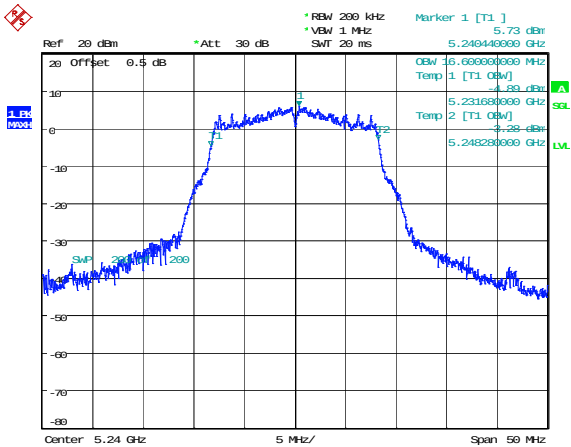
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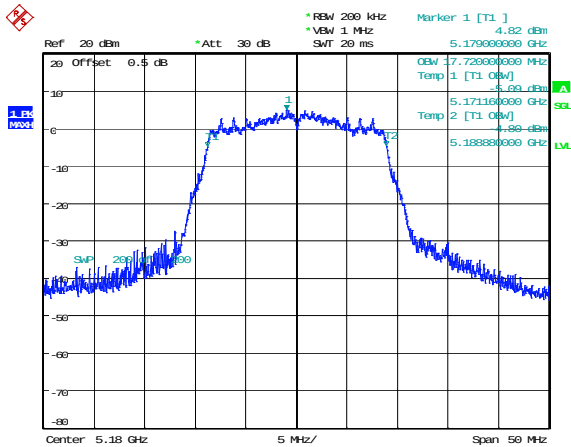
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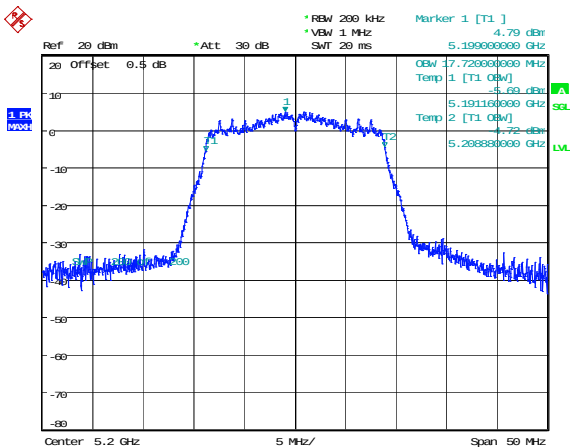
802.11n20_5180MHz 17.720MHz



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Date: 8.NOV.2024 14:44:48

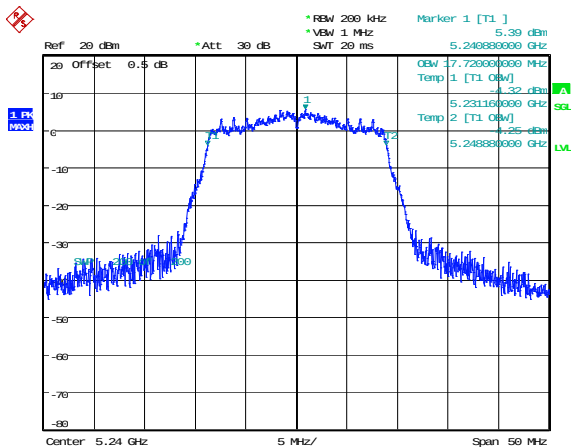
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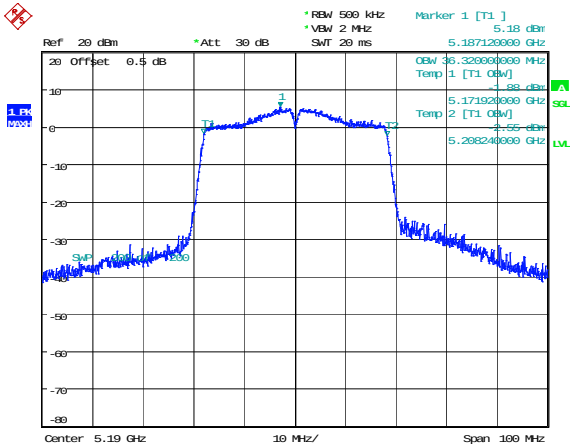
802.11n20_5240MHz 17.720MHz



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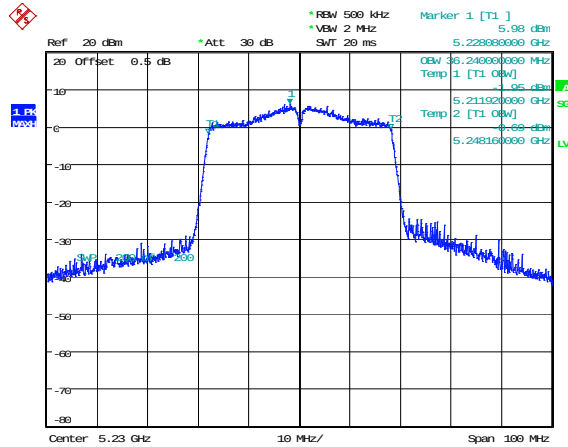
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802.11n40_5190MHz 36.320MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:52:33

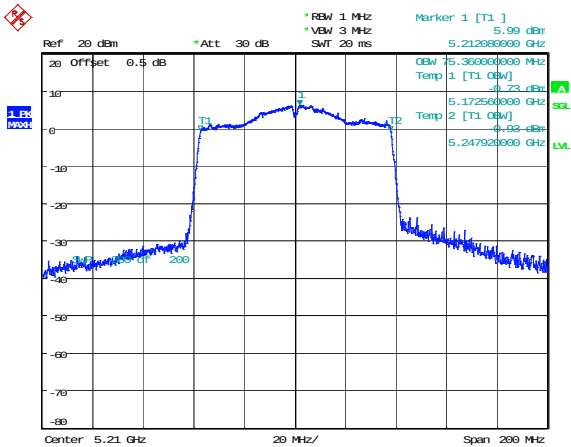
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Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:54:53

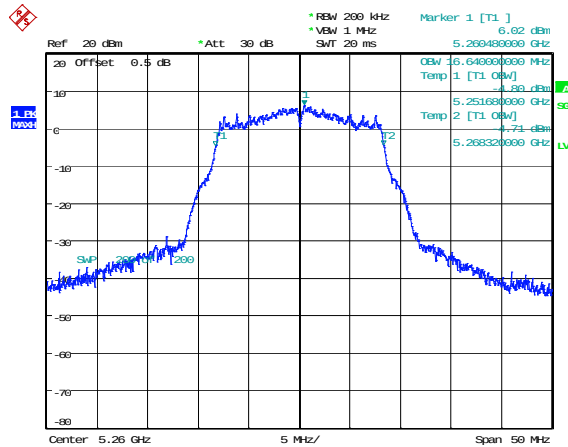
5250-5350MHz

802.11ac80_5210MHz 75.360MHz



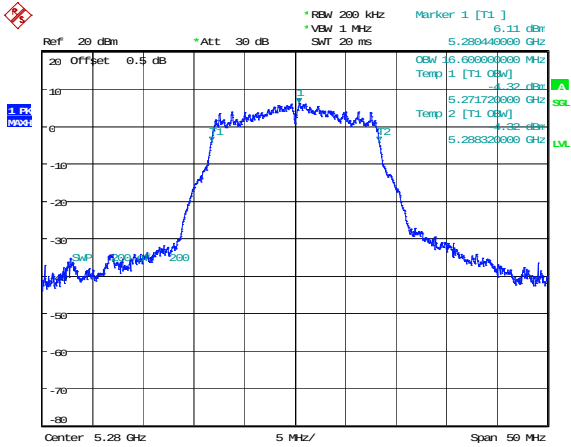
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802.11a_5260MHz 16.640MHz



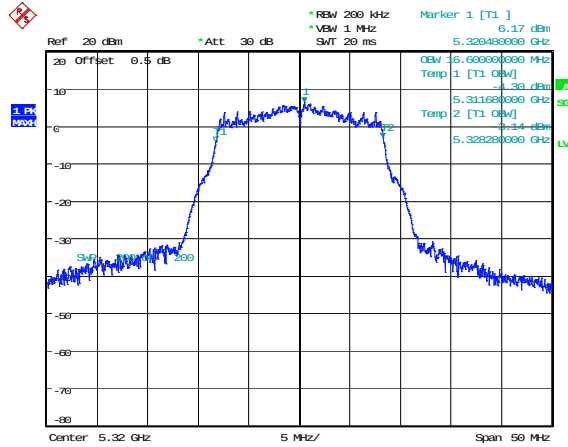
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802.11a_5280MHz 16.600MHz



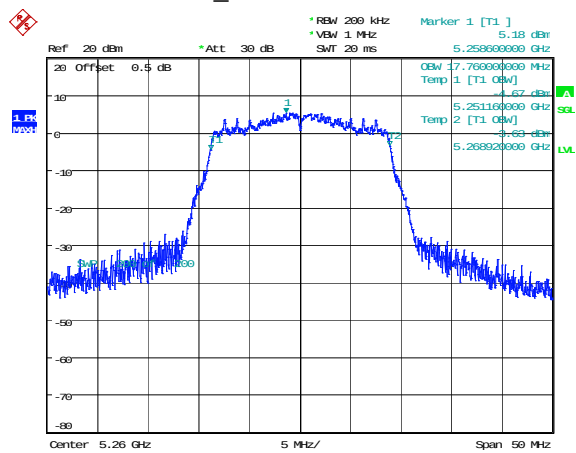
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802.11a_5320MHz 16.600MHz



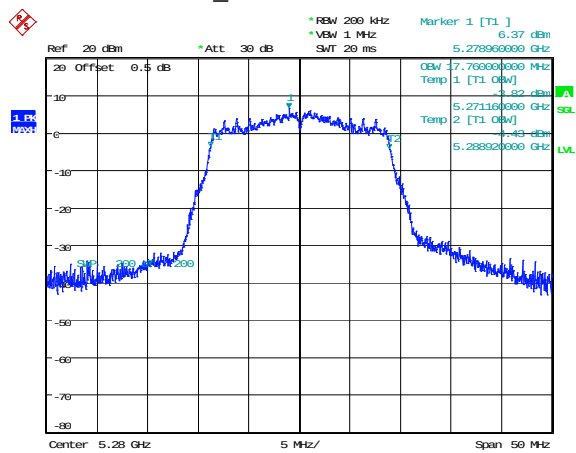
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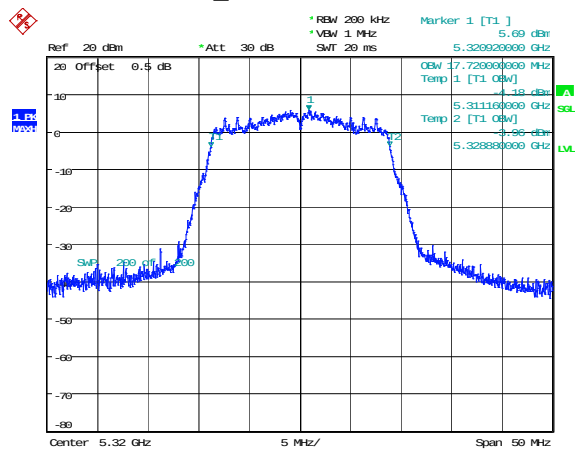
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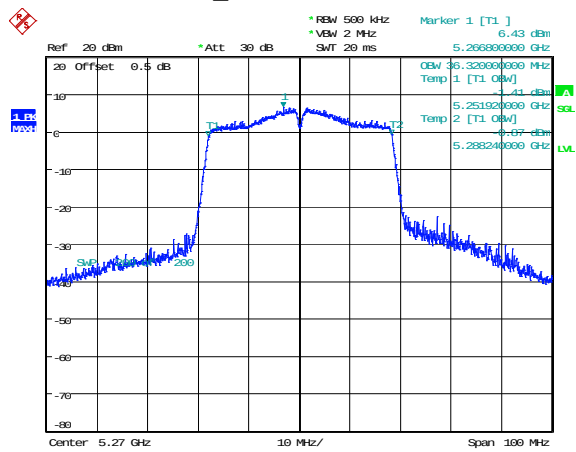
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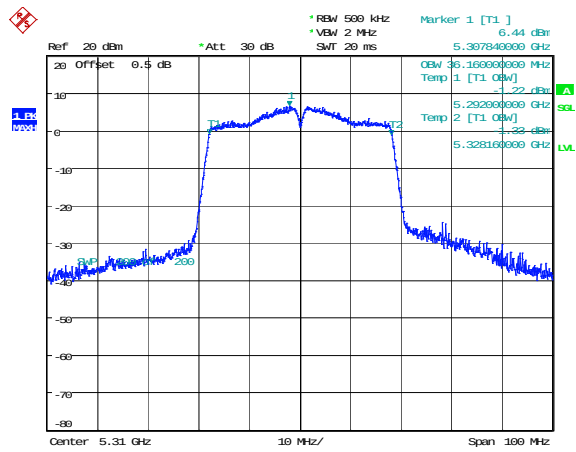
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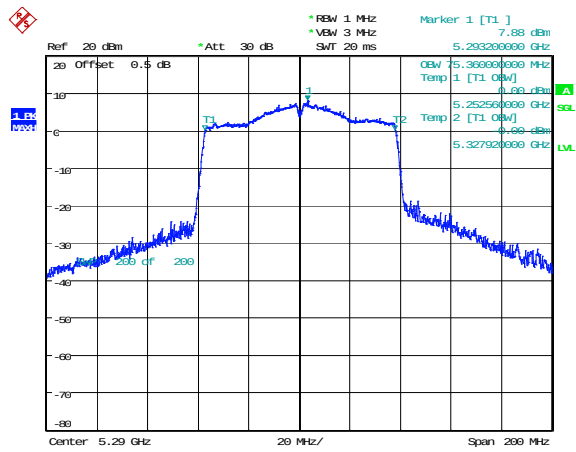
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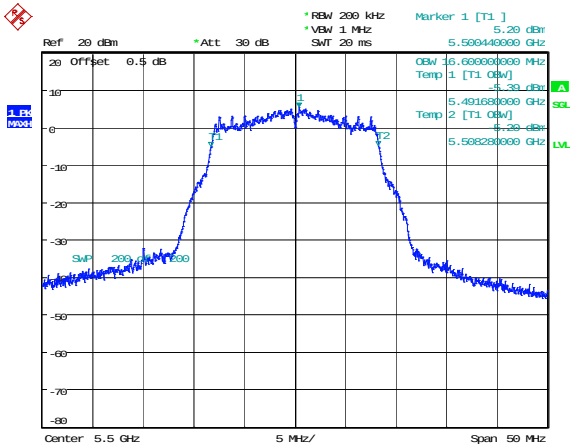
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Date: 8.NOV.2024 15:11:46

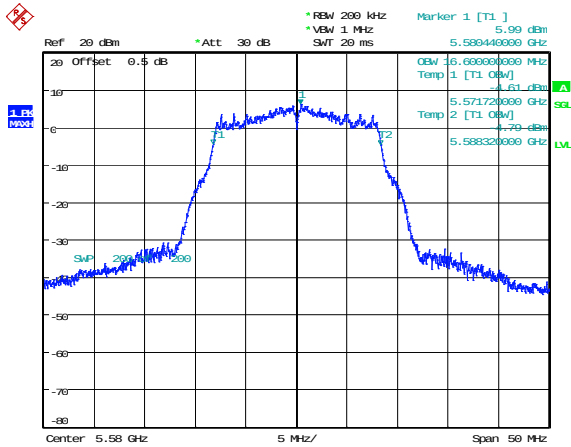
5470-5725MHz

802.11a_5500MHz 16.600MHz



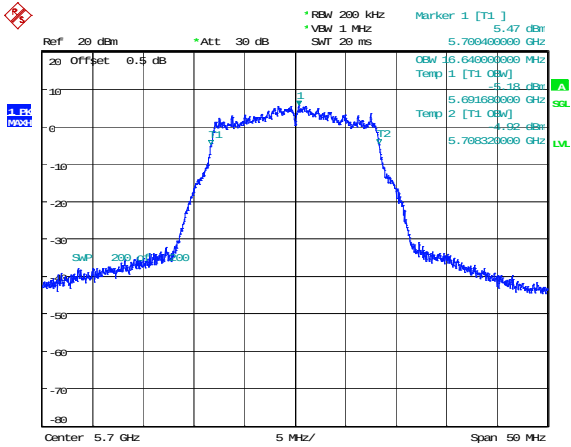
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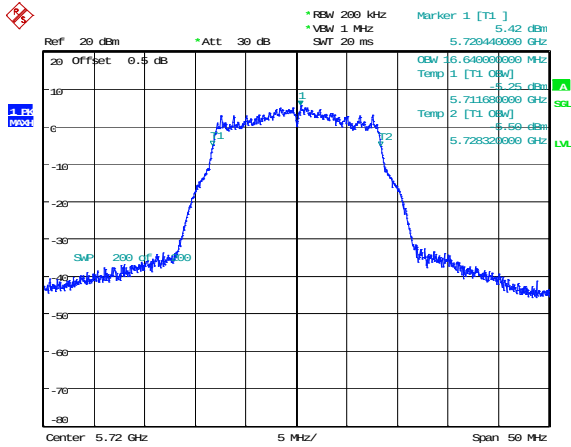
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802.11a_5700MHz 16.640MHz



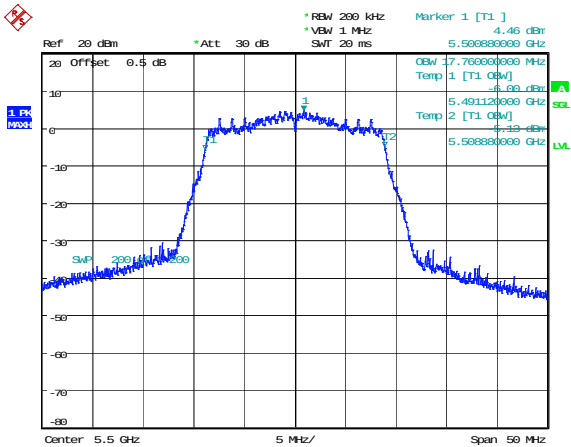
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802.11a_5720MHz 16.640MHz



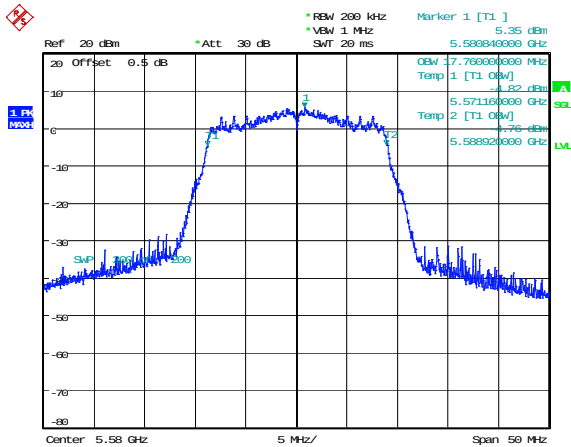
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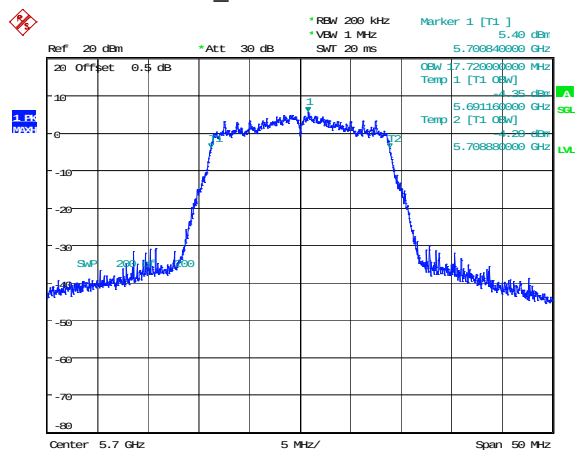
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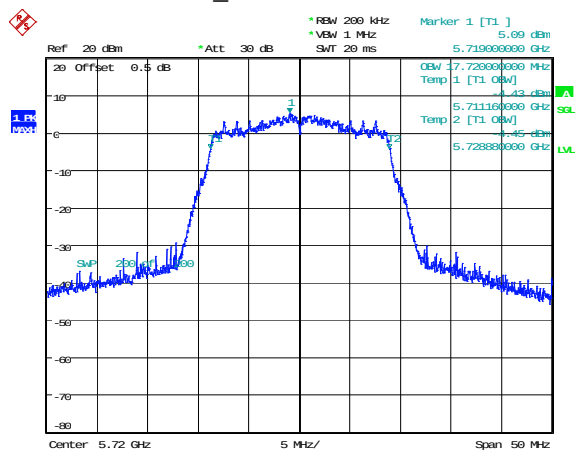
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802.11n20_5700MHz 17.720MHz



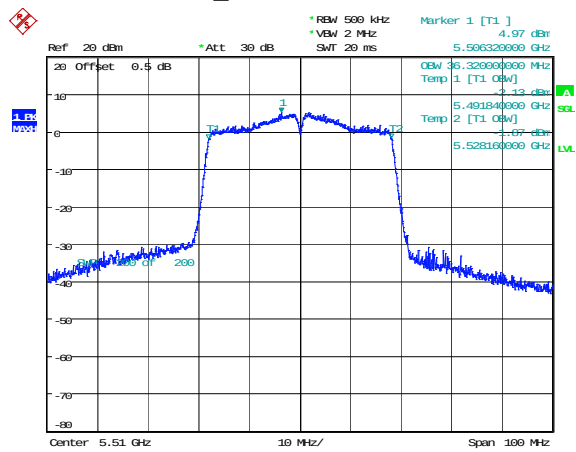
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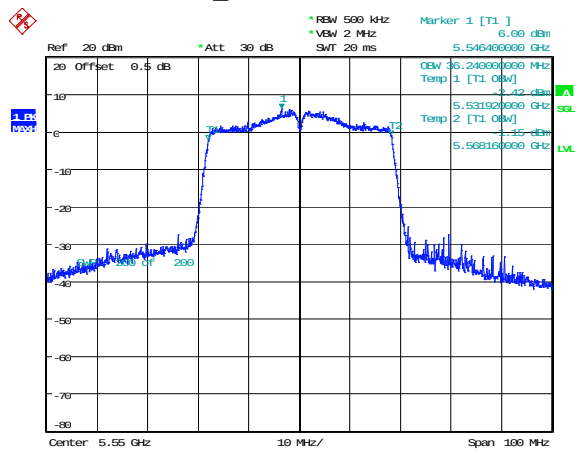
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802.11n40_5510MHz 36.320MHz



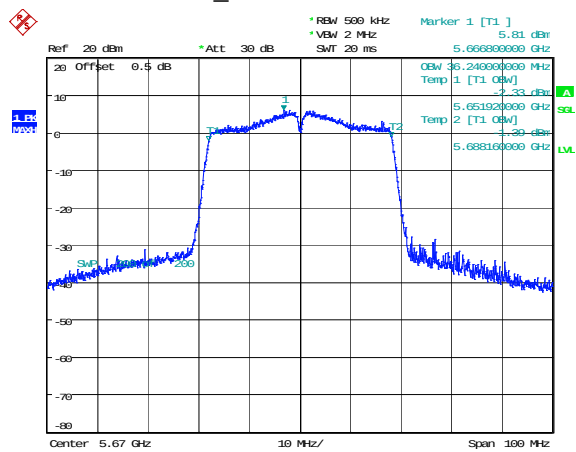
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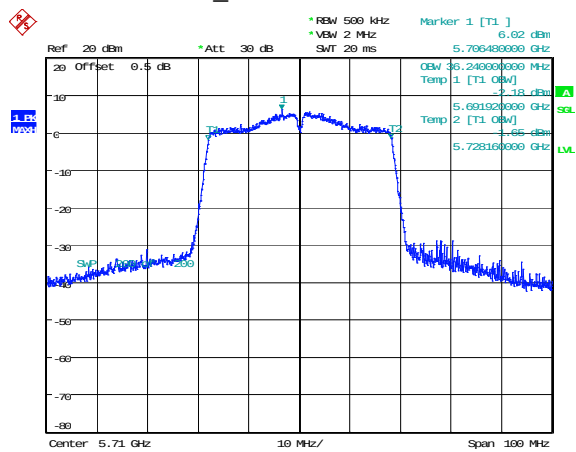
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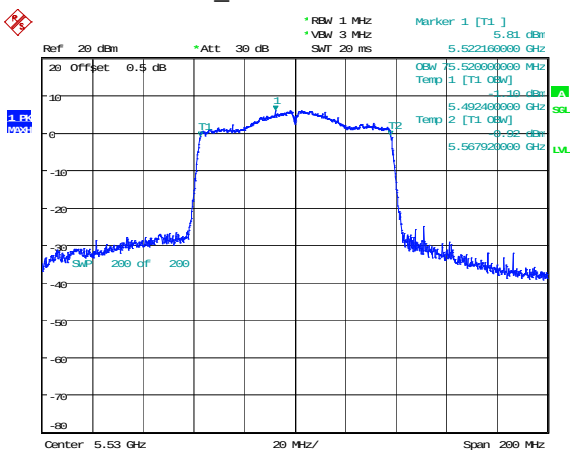
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802.11n40_5710MHz 36.240MHz



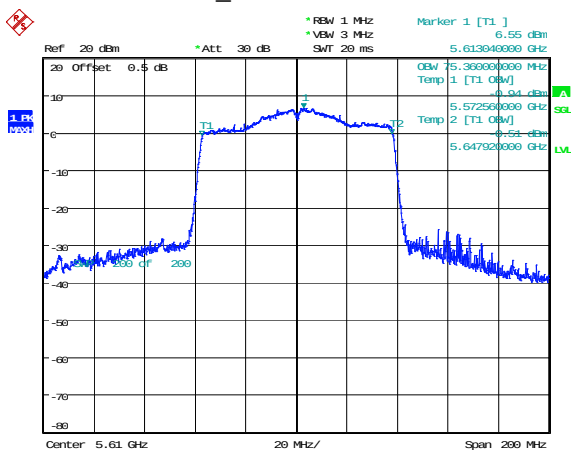
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Date: 8.NOV.2024 16:33:24

802.11ac80_5530MHz 75.520MHz



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Date: 8.NOV.2024 16:38:08

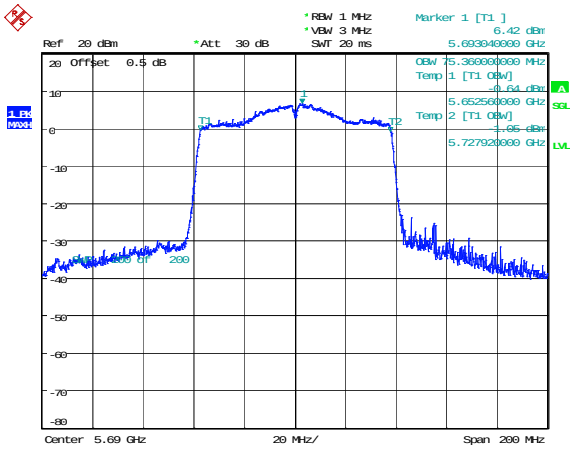
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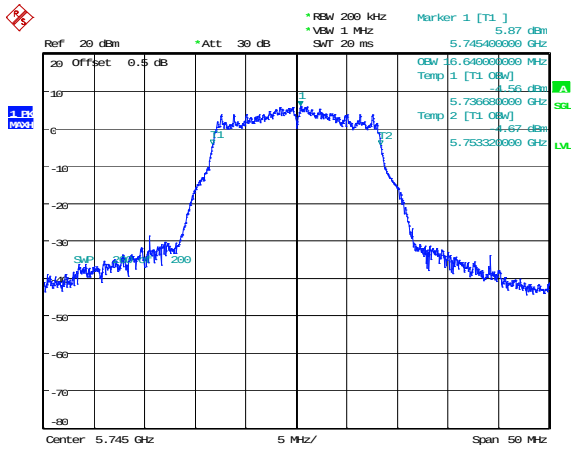
5725-5850MHz

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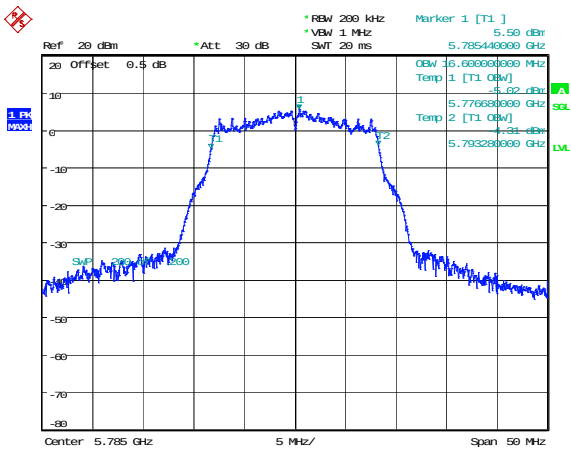
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802.11a_5745MHz 16.640MHz



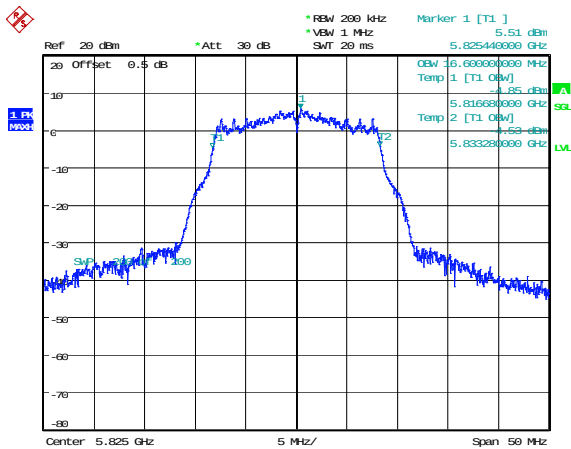
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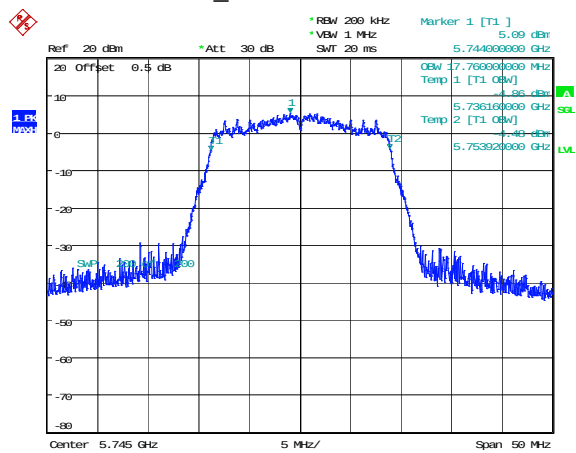
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802.11a_5825MHz 16.600MHz



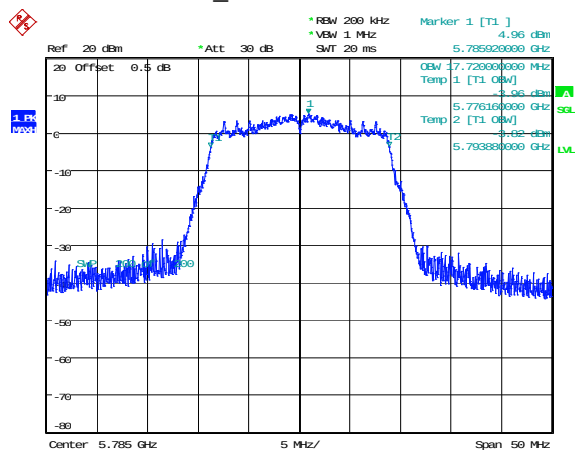
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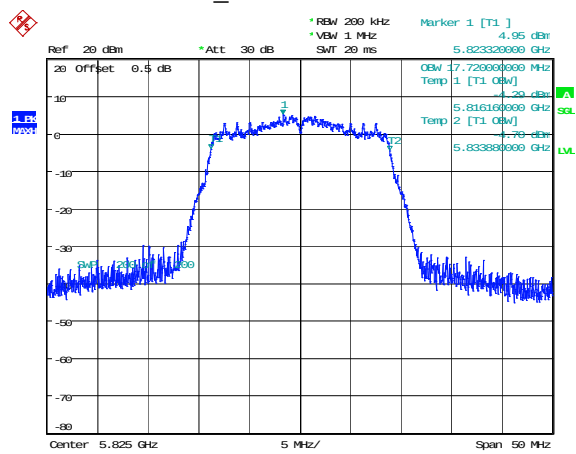
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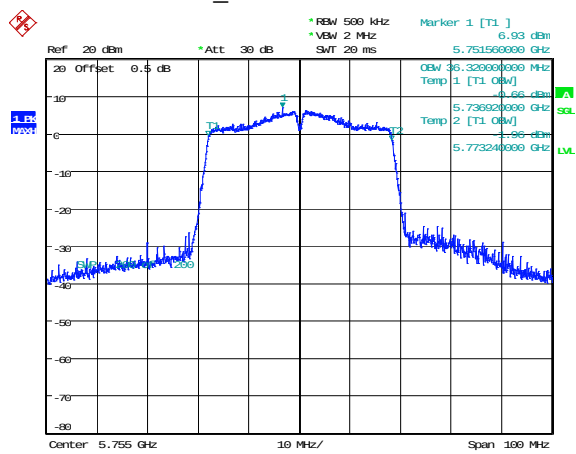
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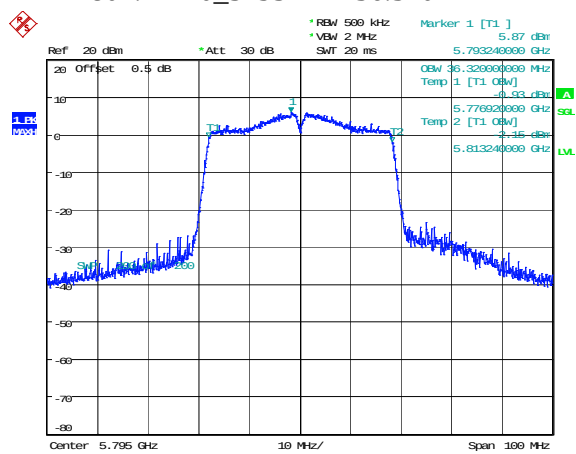
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802.11n40_5755MHz 36.320MHz



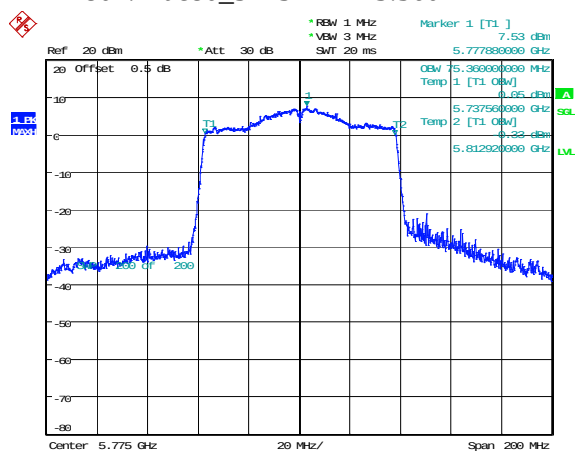
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802.11n40_5795MHz 36.320MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 9.NOV.2024 16:46:34

802.11ac80_5775MHz 75.360MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 9.NOV.2024 16:28:50

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	2.73	0.31	3.04	11	Pass
		5200	2.86	0.31	3.17	11	Pass
		5240	3.30	0.31	3.61	11	Pass
802.11n20	Chain 0	5180	1.93	0.33	2.26	11	Pass
		5200	1.78	0.33	2.11	11	Pass
		5240	2.17	0.33	2.50	11	Pass
802.11n40	Chain 0	5190	-3.40	0.59	-2.81	11	Pass
		5230	-1.19	0.59	-0.60	11	Pass
802.11ac80	Chain 0	5210	-8.03	1.13	-6.90	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	3.80	0.31	4.11	11	Pass
		5280	4.02	0.31	4.33	11	Pass
		5320	4.12	0.31	4.43	11	Pass
802.11n20	Chain 0	5260	3.01	0.33	3.34	11	Pass
		5280	2.77	0.33	3.10	11	Pass
		5320	2.34	0.33	2.67	11	Pass
802.11n40	Chain 0	5270	-1.98	0.59	-1.39	11	Pass
		5310	-1.96	0.59	-1.37	11	Pass
802.11ac80	Chain 0	5290	-8.95	1.13	-7.82	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	3.21	0.31	3.52	11	Pass
		5580	3.55	0.31	3.86	11	Pass
		5700	2.91	0.31	3.22	11	Pass
		5720	1.98	0.31	2.29	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	2.39	0.33	2.72	11	Pass
		5580	2.26	0.33	2.59	11	Pass
		5700	2.14	0.33	2.47	11	Pass
		5720	2.07	0.33	2.40	11	Pass
802.11n40	Chain 0	5510	-4.31	0.59	-3.72	11	Pass
		5550	-4.09	0.59	-3.50	11	Pass
		5670	-2.21	0.59	-1.62	11	Pass
		5710	-3.70	0.59	-3.11	11	Pass
802.11ac80	Chain 0	5530	-9.78	1.13	-8.65	11	Pass
		5610	-8.41	1.13	-7.28	11	Pass
		5690	-10.86	1.13	-9.73	11	Pass

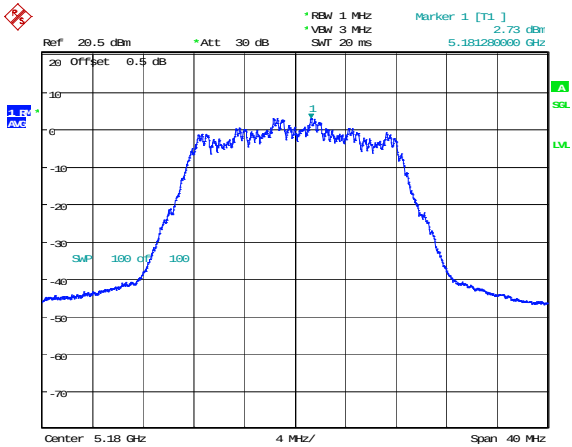
5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading(dBm /500kHz)	Duty Cycle Factor(dB)	Result(dBm /500kHz)	Limit(dBm /500kHz)	Verdict
802.11a	Chain 0	5745	0.99	0.31	1.30	30	Pass
		5785	0.65	0.31	0.96	30	Pass
		5825	-0.18	0.31	0.13	30	Pass
802.11n20	Chain 0	5745	0.17	0.33	0.50	30	Pass
		5785	-0.40	0.33	-0.07	30	Pass
		5825	-0.31	0.33	0.02	30	Pass
802.11n40	Chain 0	5755	-5.20	0.59	-4.61	30	Pass
		5795	-6.16	0.59	-5.57	30	Pass
802.11ac80	Chain 0	5775	-9.54	1.13	-8.41	30	Pass

Result = Reading + Duty Cycle Factor

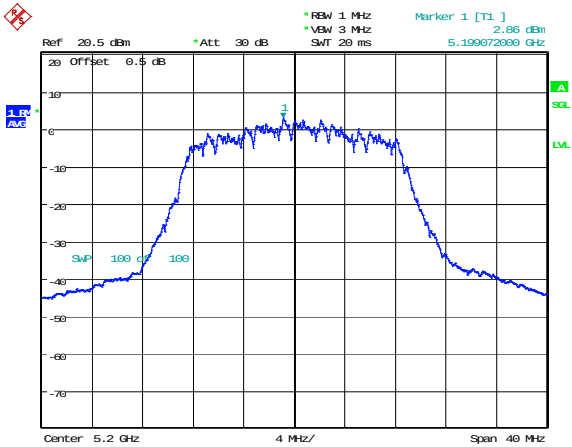
5150-5250MHz

802.11a_5180MHz



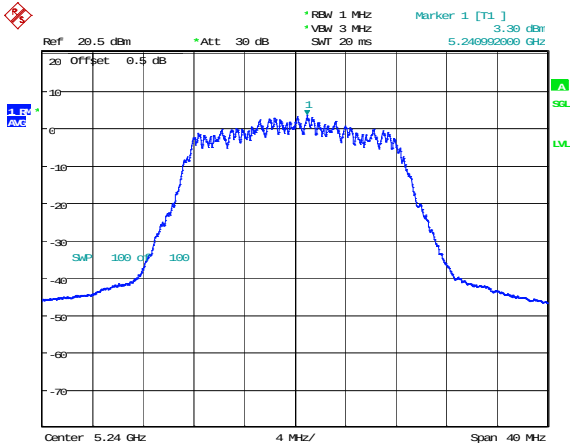
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Date: 8.NOV.2024 14:35:24

802.11a_5200MHz



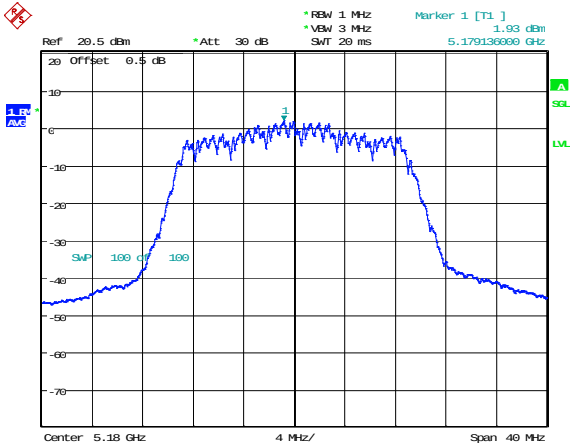
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802.11a_5240MHz



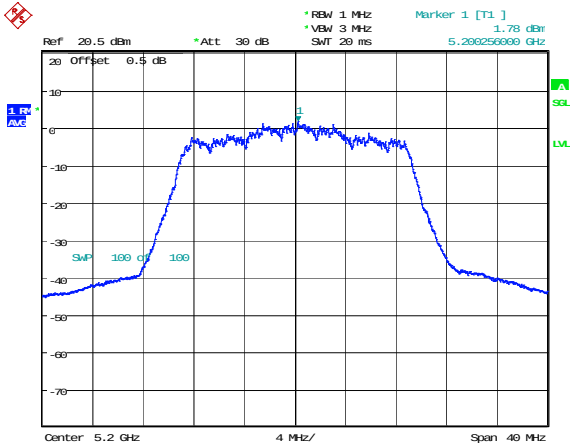
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802.11n20_5180MHz



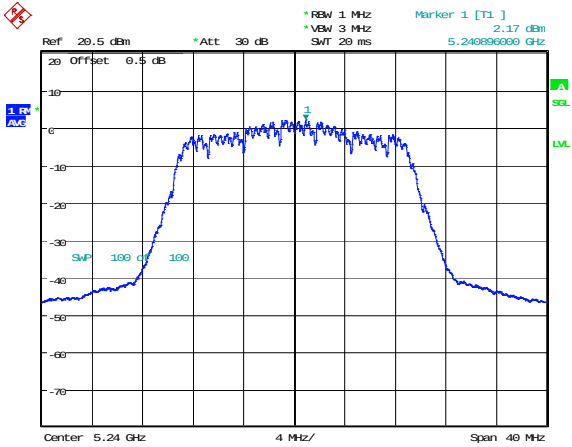
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802.11n20_5200MHz



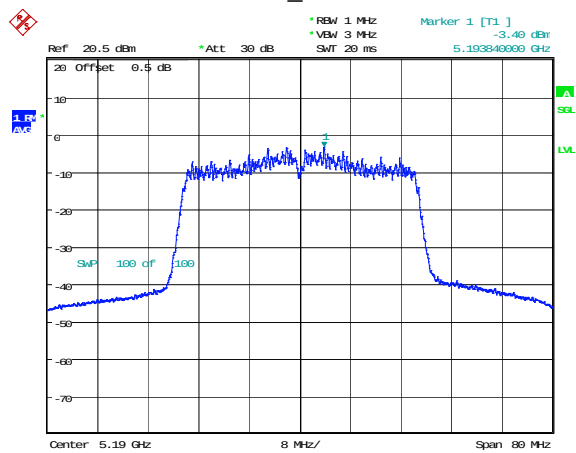
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802.11n20_5240MHz



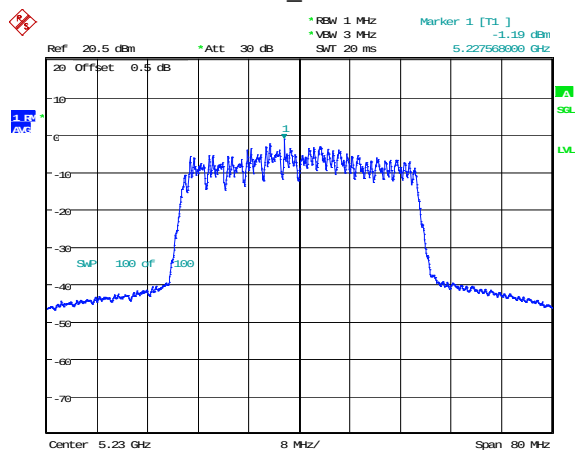
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802.11n40_5190MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
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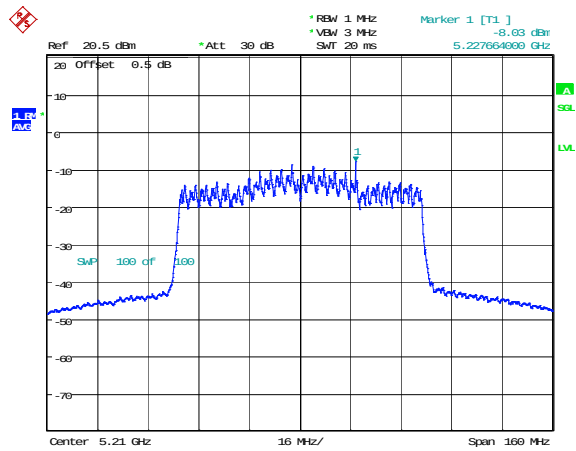
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Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
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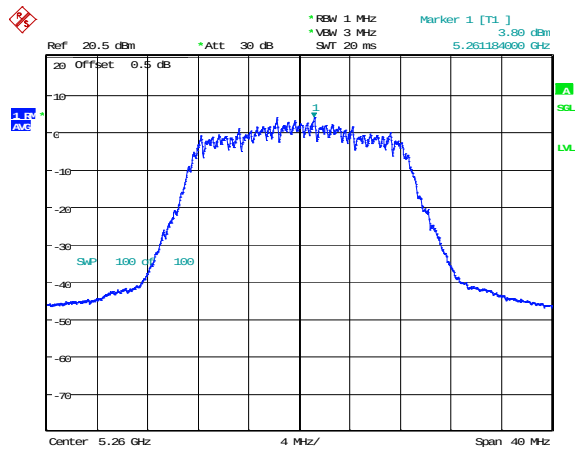
5250-5350MHz

802.11ac80_5210MHz



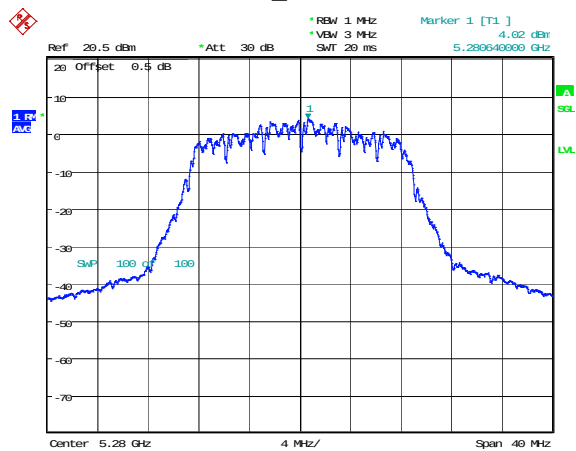
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Date: 8.NOV.2024 14:58:33

802.11a_5260MHz



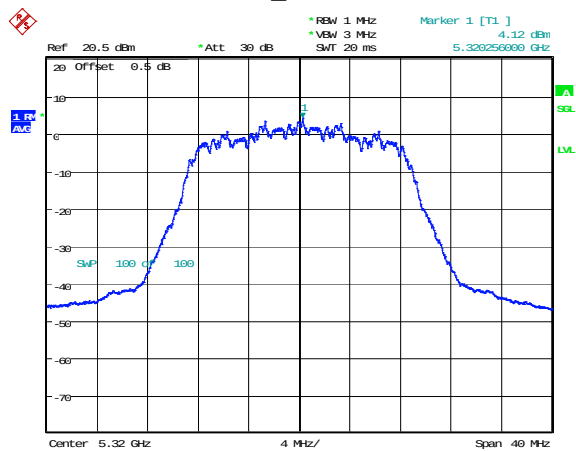
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802.11a_5280MHz



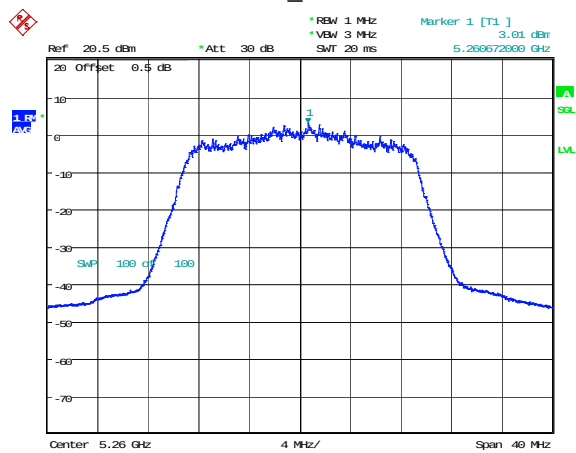
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Date: 8.NOV.2024 15:21:21

802.11a_5320MHz



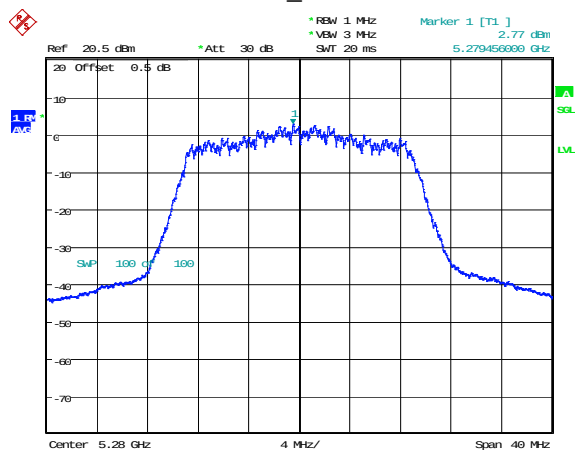
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802.11n20_5260MHz



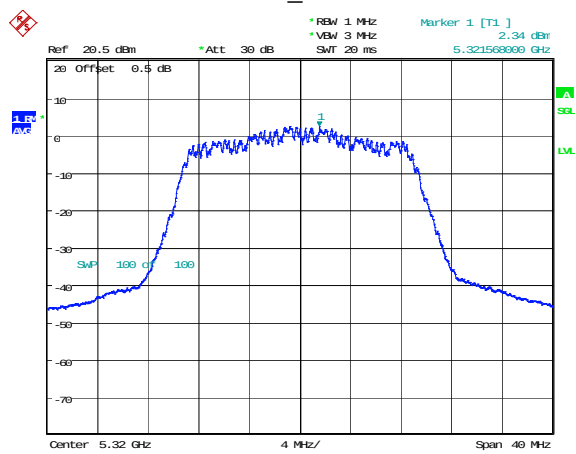
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802.11n20_5280MHz



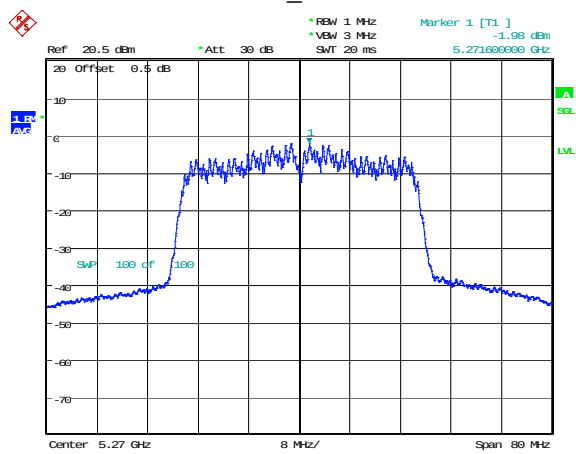
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Date: 8.NOV.2024 15:28:22

802.11n20_5320MHz



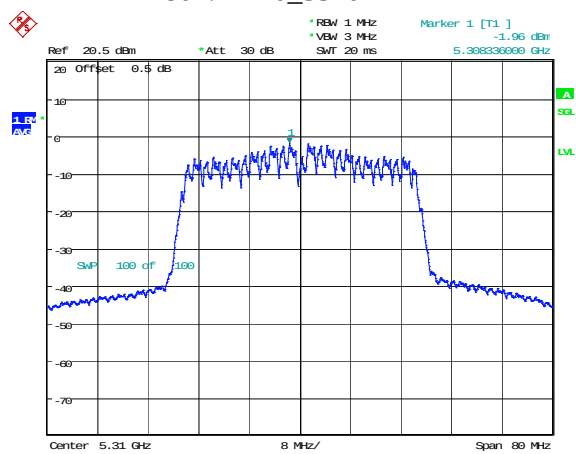
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 15:30:44

802.11n40_5270MHz



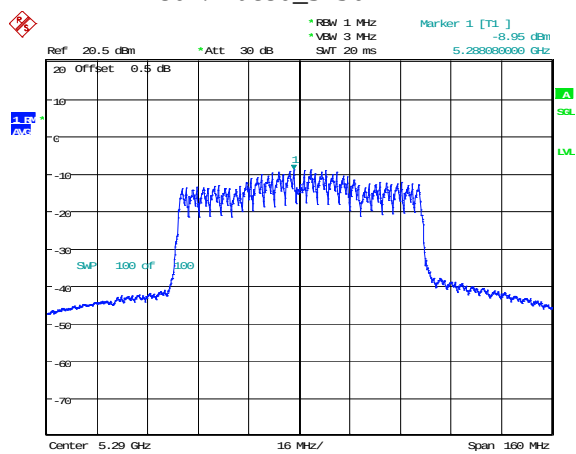
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 15:32:57

802.11n40_5310MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 15:35:07

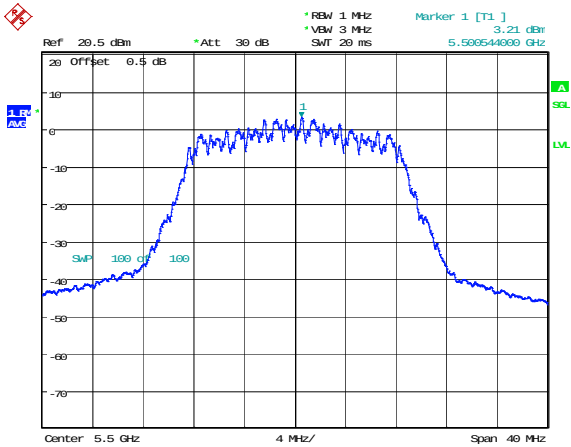
802.11ac80_5290MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 15:12:35

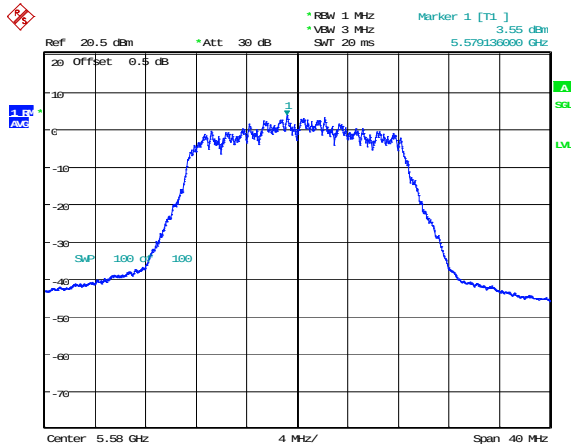
5470-5725MHz

802.11a_5500MHz



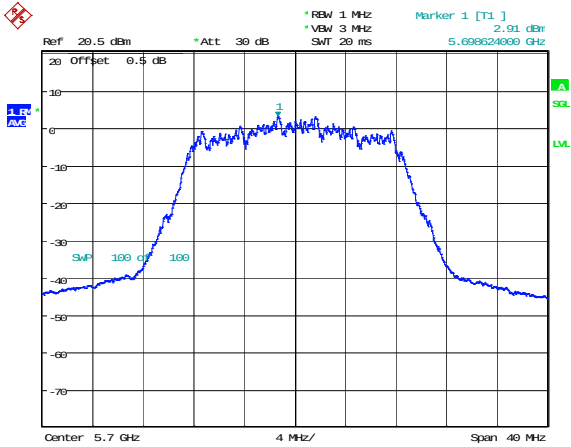
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 15:46:16

802.11a_5580MHz



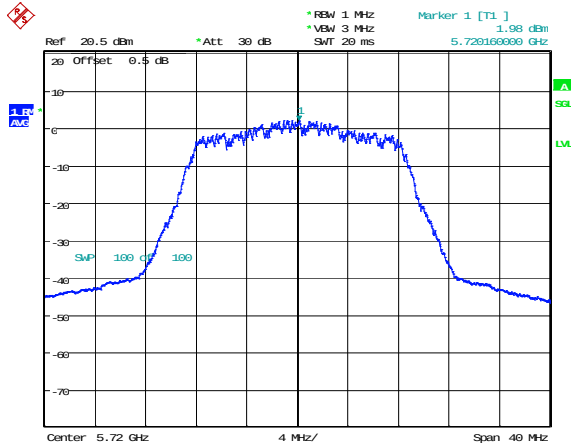
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 15:48:30

802.11a_5700MHz



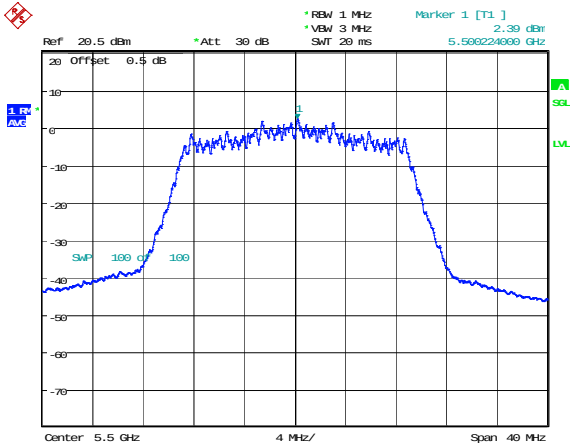
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 15:53:07

802.11a_5720MHz



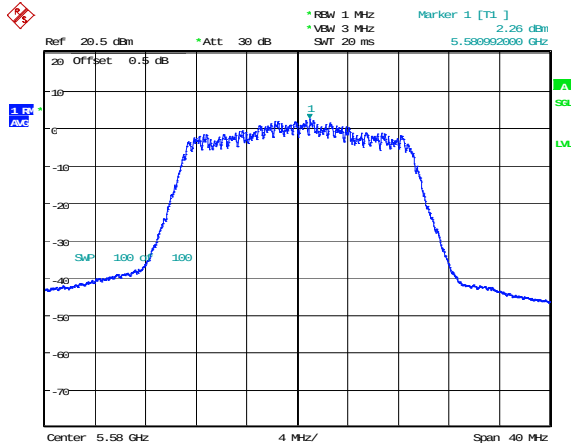
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 15:55:27

802.11n20_5500MHz



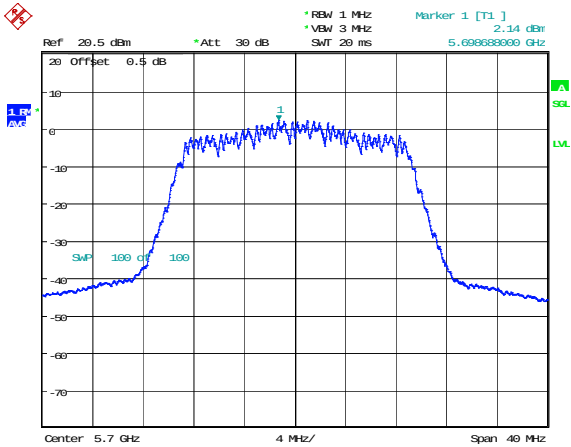
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 15:57:49

802.11n20_5580MHz



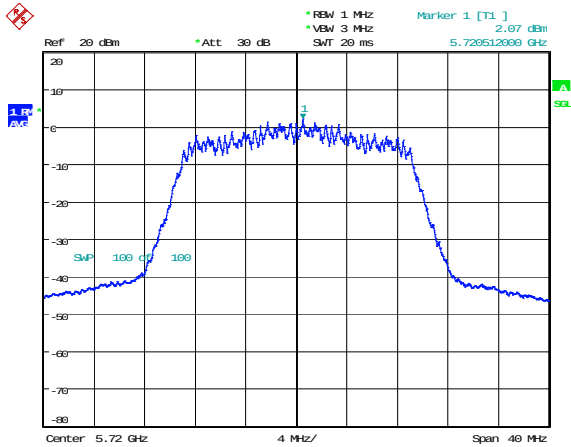
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 9.NOV.2024 16:55:37

802.11n20_5700MHz



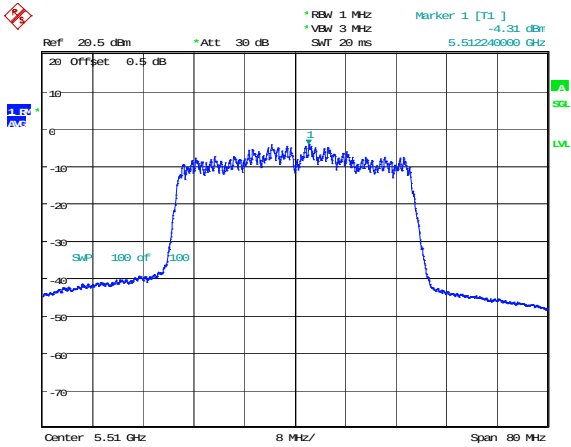
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Date: 9.NOV.2024 16:57:28

802.11n20_5720MHz



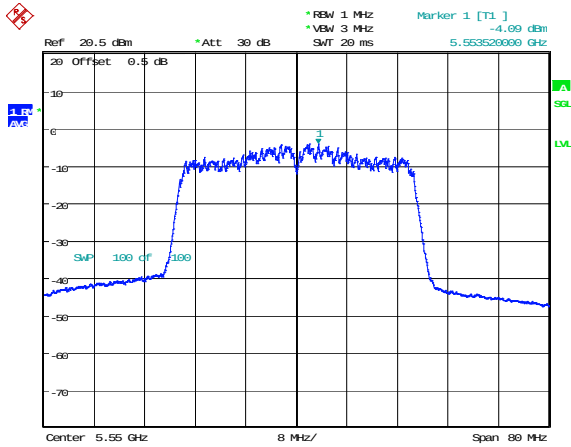
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 16:18:16

802.11n40_5510MHz



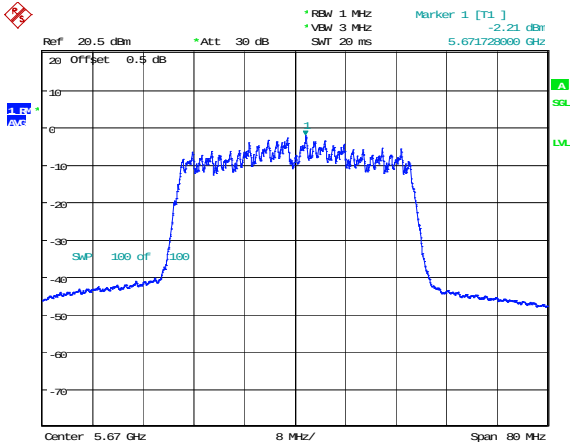
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 16:25:54

802.11n40_5550MHz



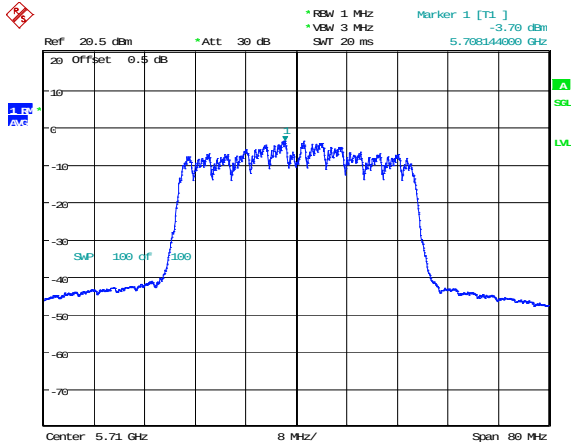
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 16:28:01

802.11n40_5670MHz



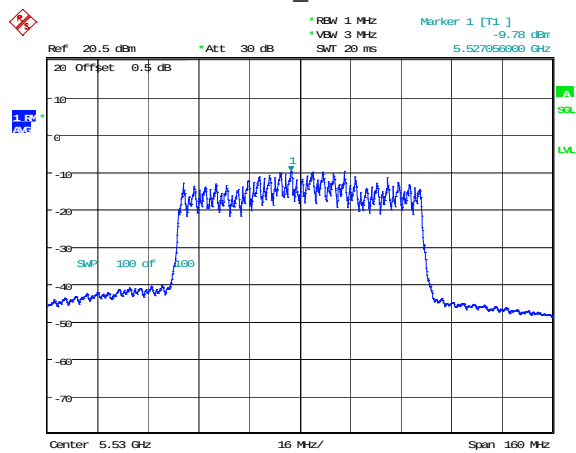
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 16:39:19

802.11n40_5710MHz



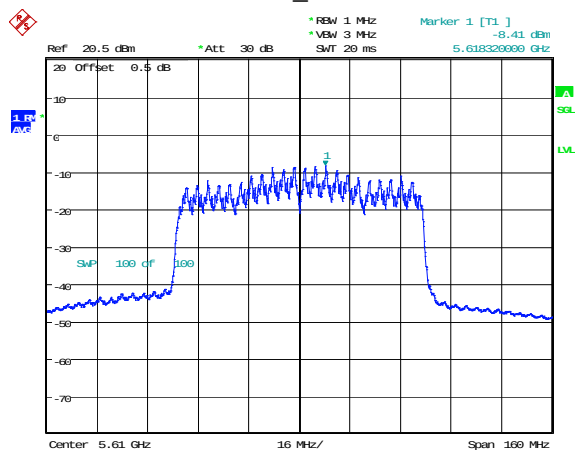
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 16:34:05

802.11ac80_5530MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 16:39:09

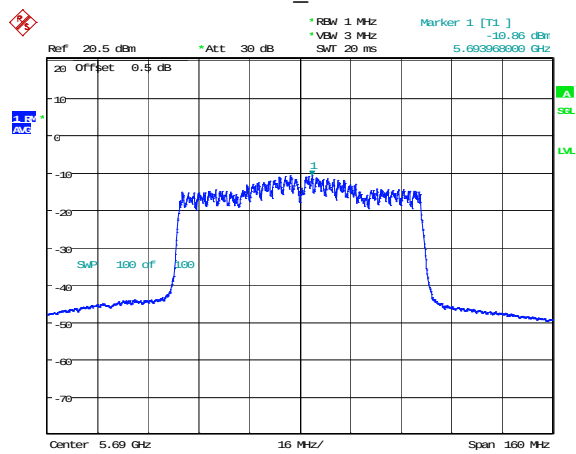
802.11ac80_5610MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 16:42:09

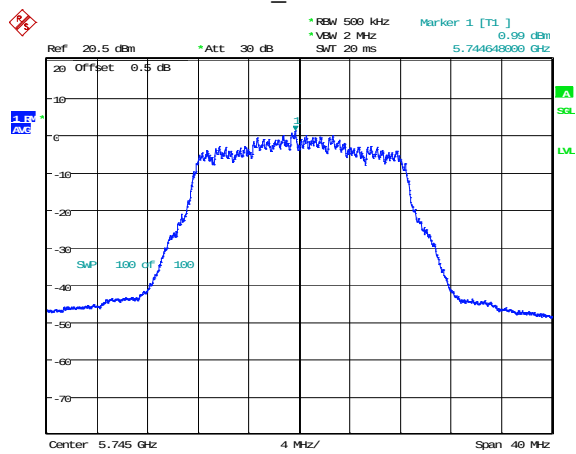
5725-5850MHz

802.11ac80_5690MHz



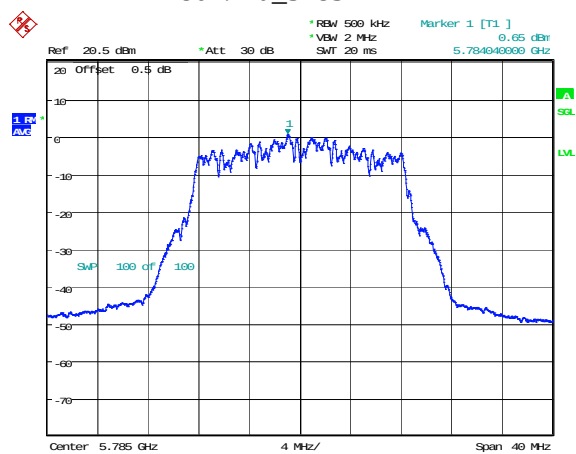
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Date: 8.NOV.2024 16:44:37

802.11a_5745MHz



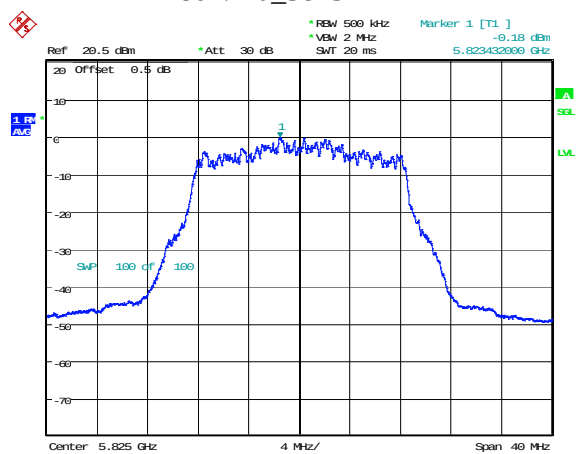
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 9.NOV.2024 16:31:48

802.11a_5785MHz



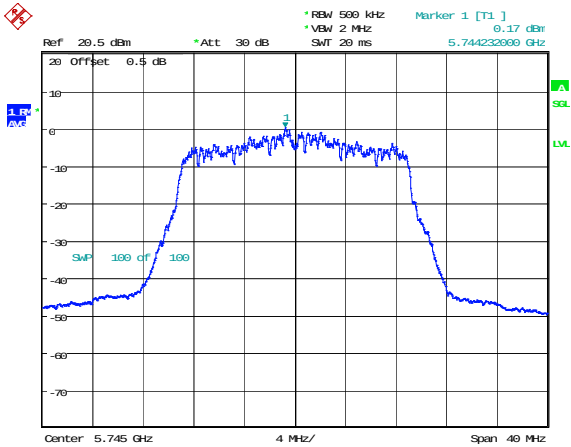
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 9.NOV.2024 16:33:45

802.11a_5825MHz



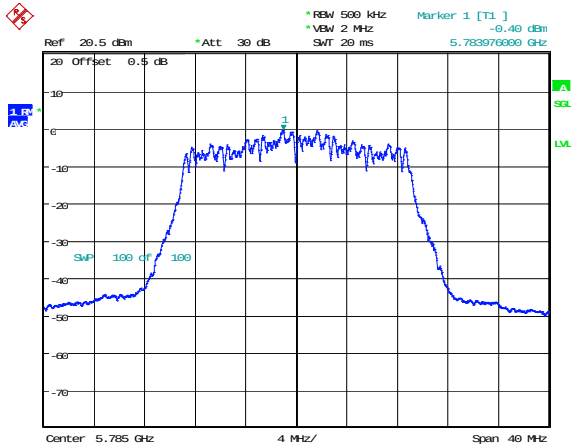
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Date: 9.NOV.2024 16:35:34

802.11n20_5745MHz



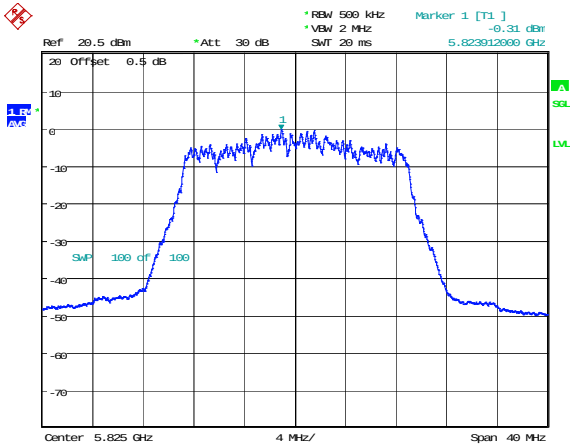
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing L1
Date: 9.NOV.2024 16:37:23

802.11n20_5785MHz



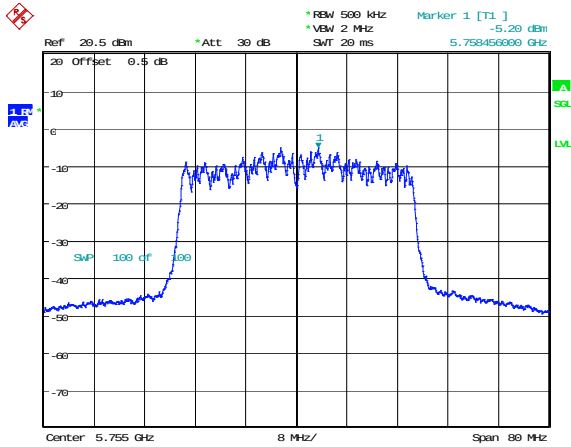
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Date: 9.NOV.2024 16:39:10

802.11n20_5825MHz



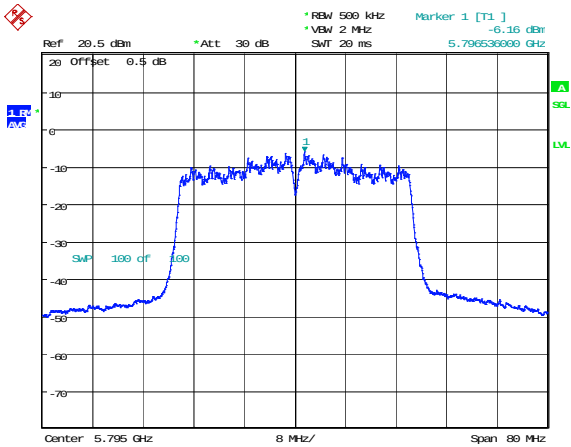
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing L1
Date: 9.NOV.2024 16:42:45

802.11n40_5755MHz



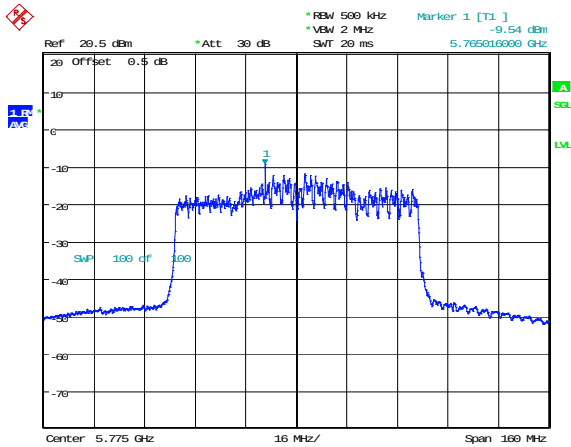
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing L1
Date: 9.NOV.2024 16:45:04

802.11n40_5795MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing L1
Date: 9.NOV.2024 16:47:17

802.11ac80_5775MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing L1
Date: 9.NOV.2024 16:29:38

Duty Cycle

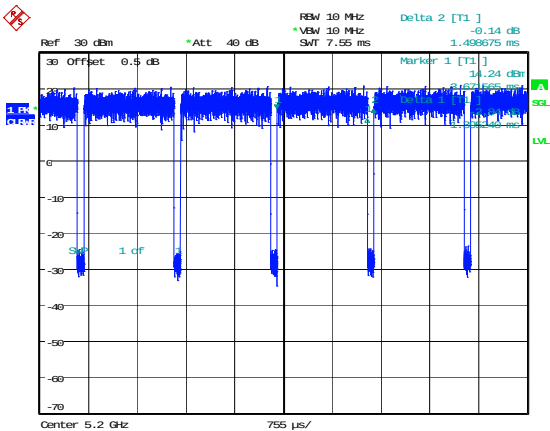
5150-5250MHz

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	1.395	1.499	93.06	0.31	717	1
802.11n20	Chain 0	5200	1.306	1.410	92.62	0.33	766	1
802.11n40	Chain 0	5190	0.655	0.751	87.22	0.59	1527	2
802.11ac80	Chain 0	5210	0.327	0.424	77.12	1.13	3058	5

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

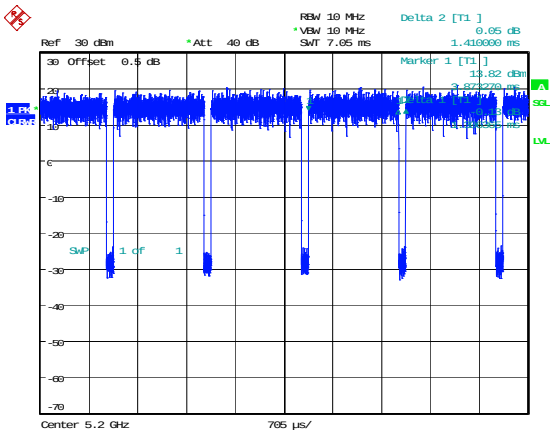
5150-5250MHz

802.11a_5200MHz
1.395ms,1.499ms



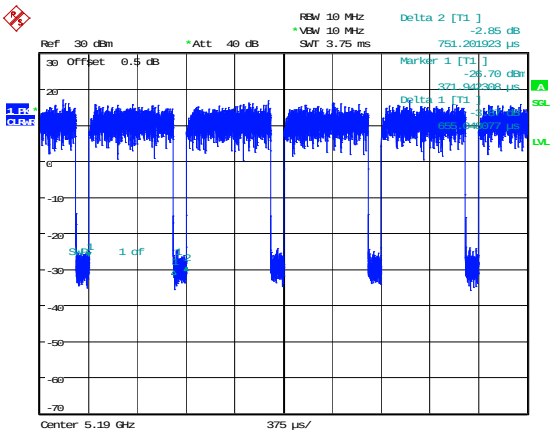
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:29:53

802.11n20_5200MHz
1.306ms,1.410ms



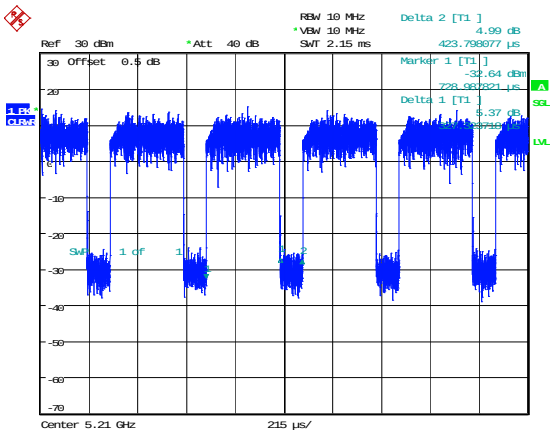
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:30:48

802.11n40_5190MHz
0.655ms,0.751ms



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:32:02

802.11ac80_5210MHz
0.327ms,0.424ms



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 14:33:39