

Appendix D.2(5G WIFI-RF Conducted Test Result)

Test Information:

Sample No.:	331Q-6	Test Date:	2025/06/09
Test Site:	RF	Test Mode:	Transmitting
Tester:	Cayde Hou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.4	Relative Humidity: (%)	47	ATM Pressure: (kPa)	99.7
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Emission Bandwidth

26dB Emission Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	25.482
	5200	25.249
	5240	25.729
802.11ac20	5180	25.802
	5200	24.737
	5240	25.664
802.11ac40	5190	48.348
	5230	45.445
802.11ax20_RU_Full	5180	25.987
	5200	26.948
	5240	25.742
802.11ax40_RU_FULL	5190	44.945
	5230	44.745

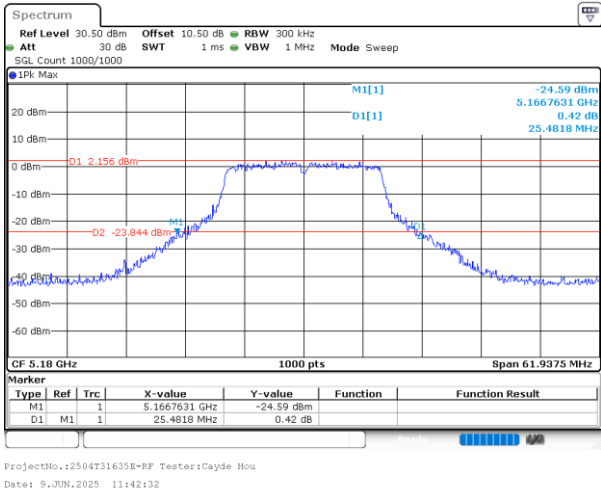
6dB Emission Bandwidth

5725-5850MHz

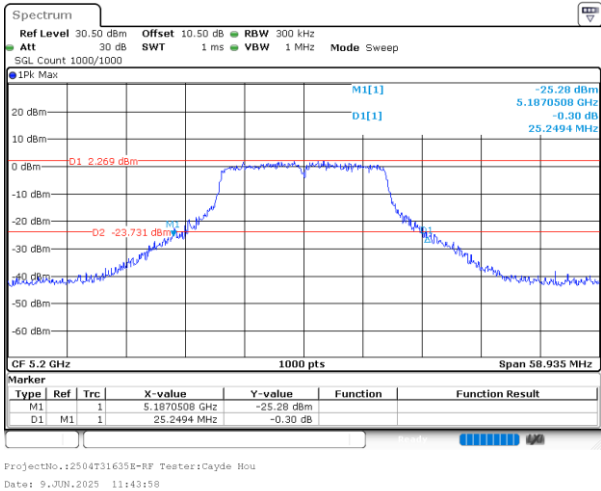
Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.466	0.5	Pass
	5785	16.466	0.5	Pass
	5825	16.416	0.5	Pass
802.11ac20	5745	17.718	0.5	Pass
	5785	17.718	0.5	Pass
	5825	17.668	0.5	Pass
802.11ac40	5755	36.537	0.5	Pass
	5795	35.836	0.5	Pass
802.11ax20_RU_Full	5745	19.069	0.5	Pass
	5785	19.069	0.5	Pass
	5825	18.869	0.5	Pass
802.11ax40_RU_FULL	5755	37.938	0.5	Pass
	5795	38.138	0.5	Pass

5150-5250MHz

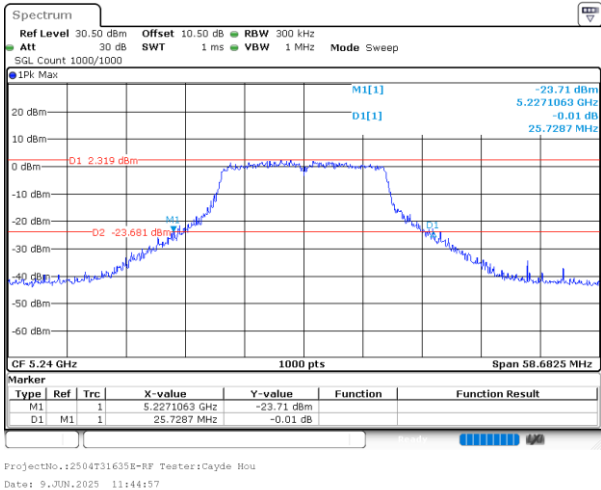
802.11a_5180MHz



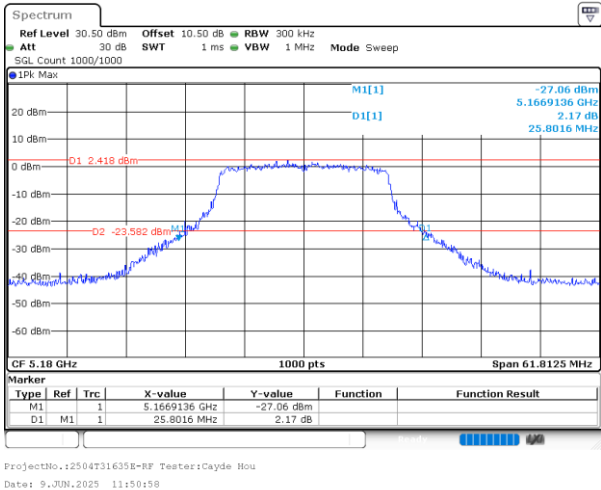
802.11a_5200MHz



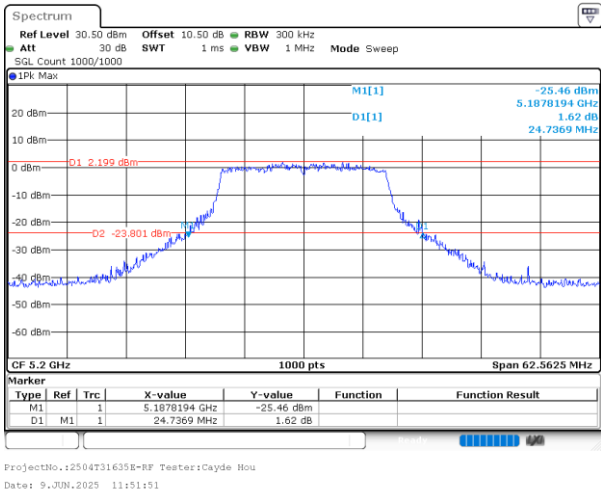
802.11a_5240MHz



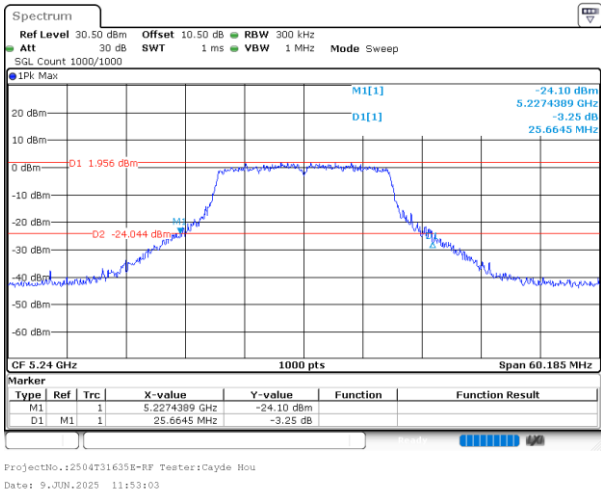
802.11ac20_5180MHz



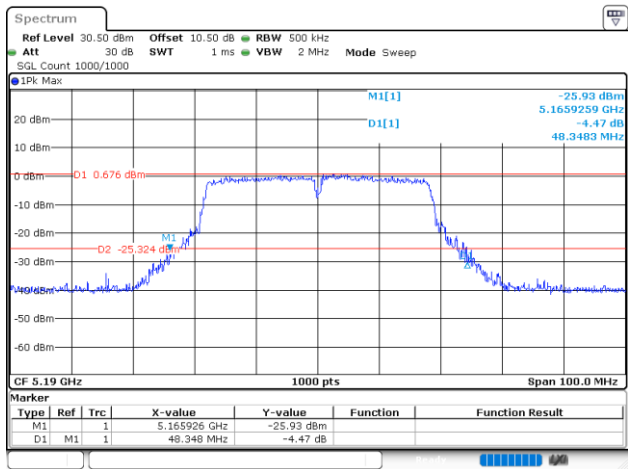
802.11ac20_5200MHz



802.11ac20_5240MHz

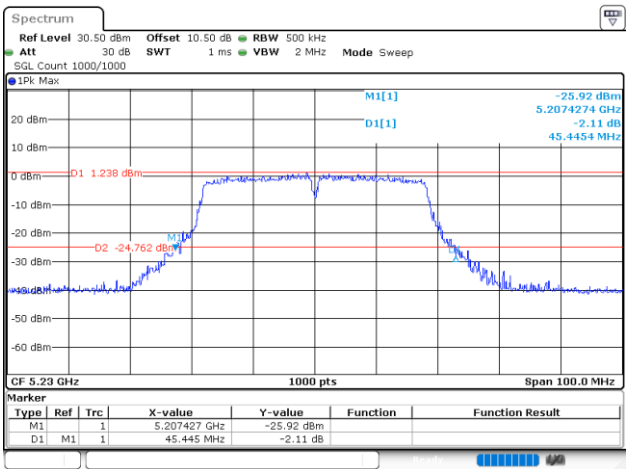


802.11ac40_5190MHz



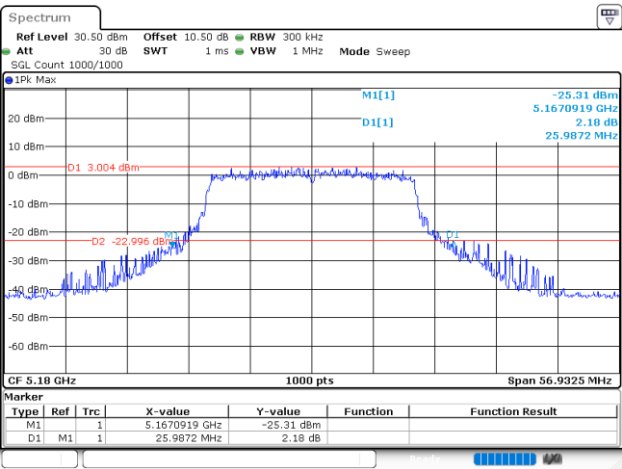
ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:53:40

802.11ac40_5230MHz



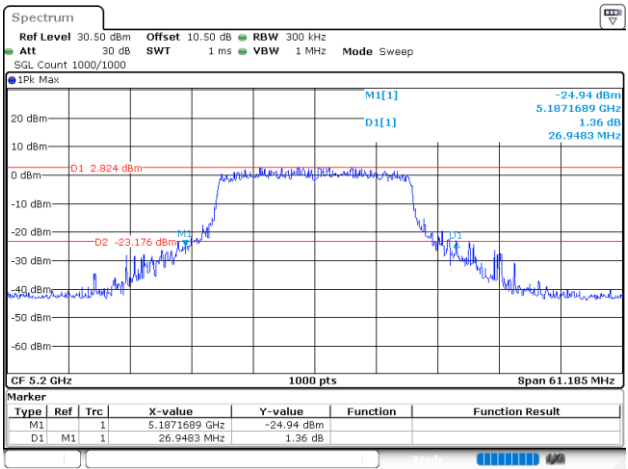
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802.11ax20_5180MHz_RU_Full



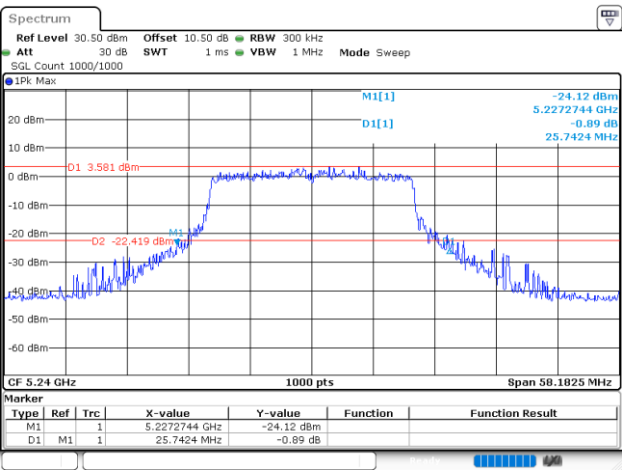
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802.11ax20_5200MHz_RU_Full



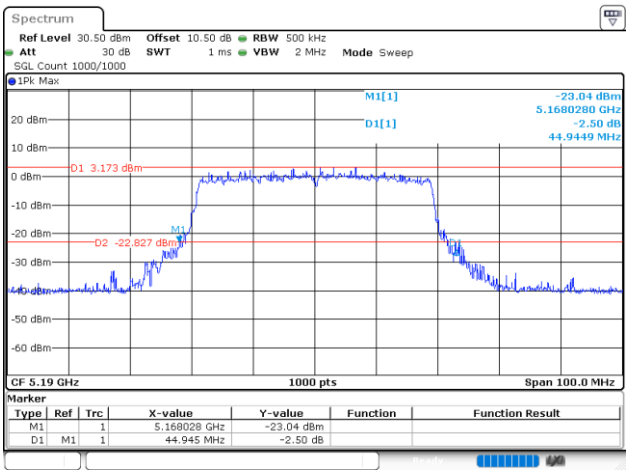
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Date: 9.JUN.2025 11:56:30

802.11ax20_5240MHz_RU_Full



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:57:27

802.11ax40_5190MHz_RU_FULL

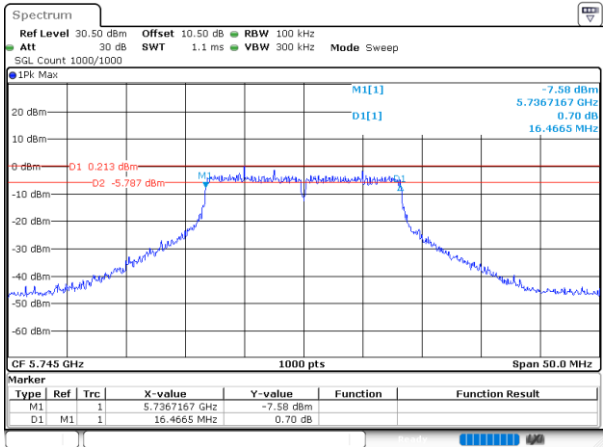
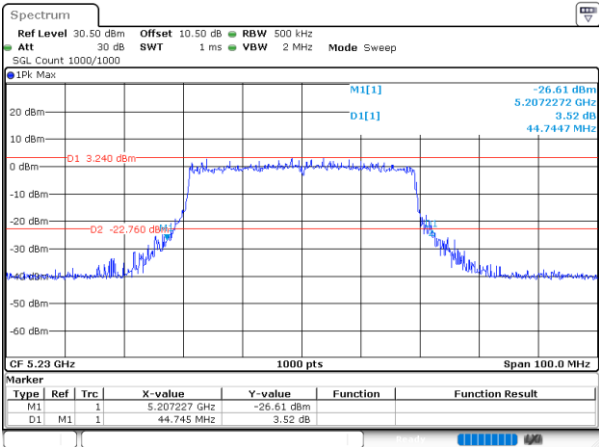


ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:58:04

5725-5850MHz

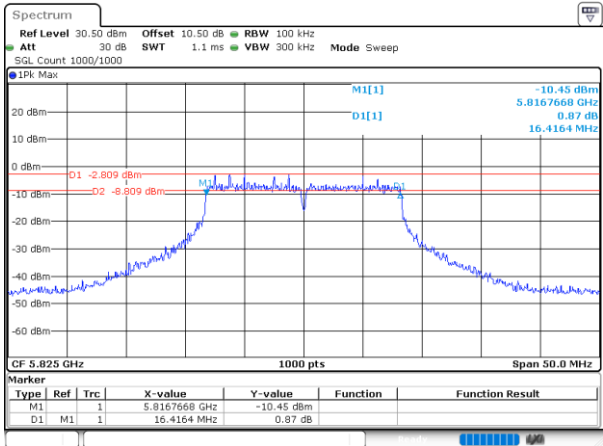
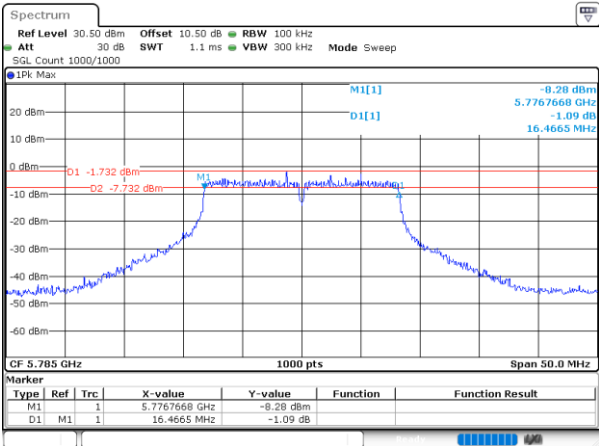
802.11ax40_5230MHz_RU_FULL

802.11a_5745MHz



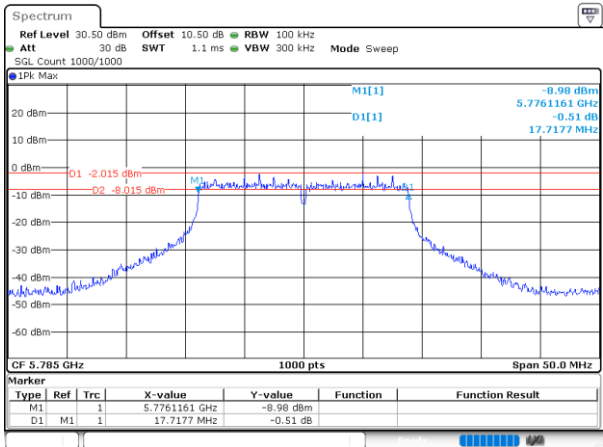
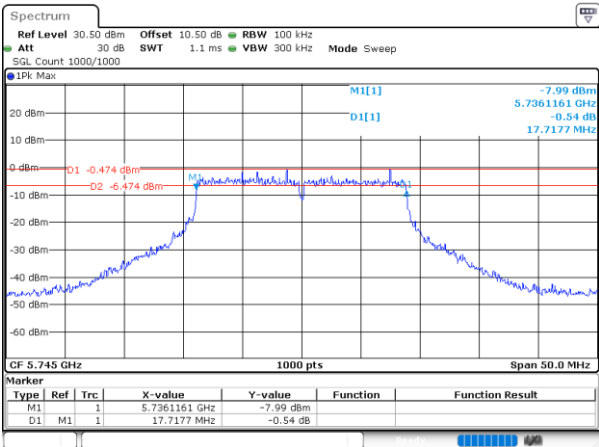
802.11a_5785MHz

802.11a_5825MHz

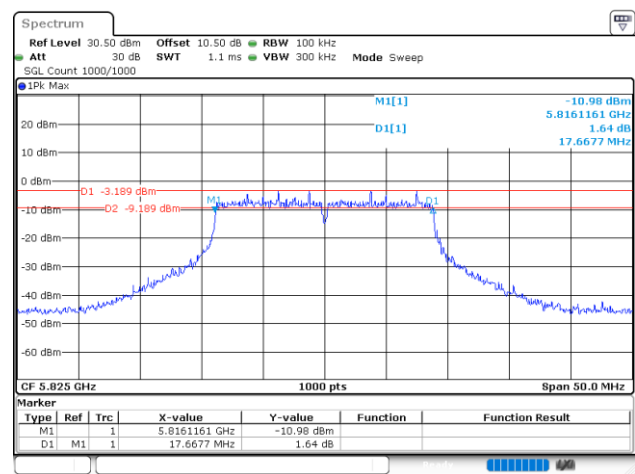


802.11ac20_5745MHz

802.11ac20_5785MHz

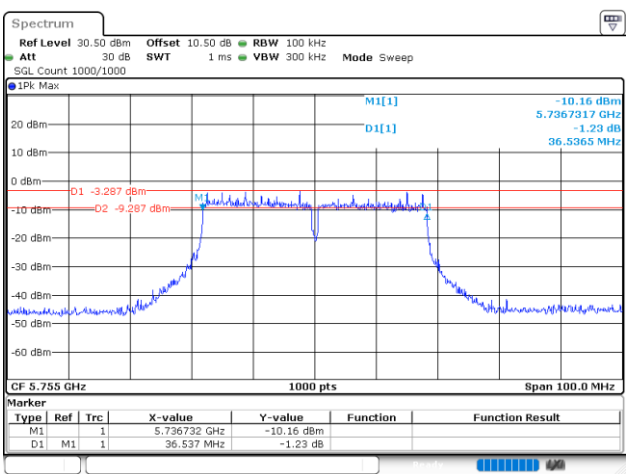


802.11ac20_5825MHz



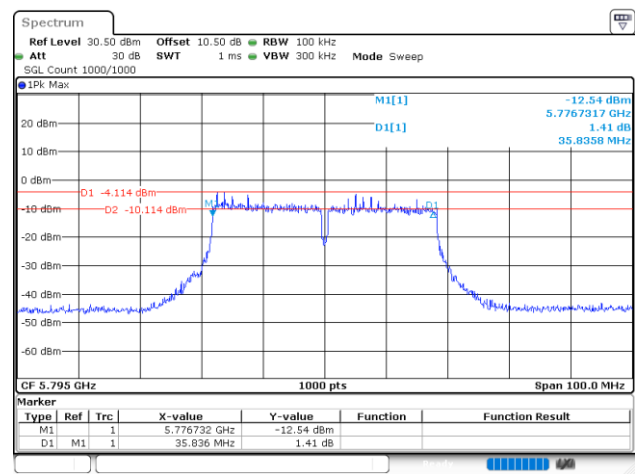
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Date: 9.JUN.2025 13:22:23

802.11ac40_5755MHz



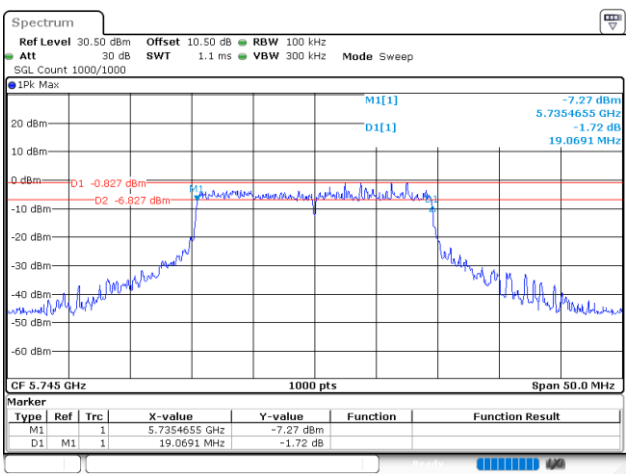
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Date: 9.JUN.2025 13:23:43

802.11ac40_5795MHz



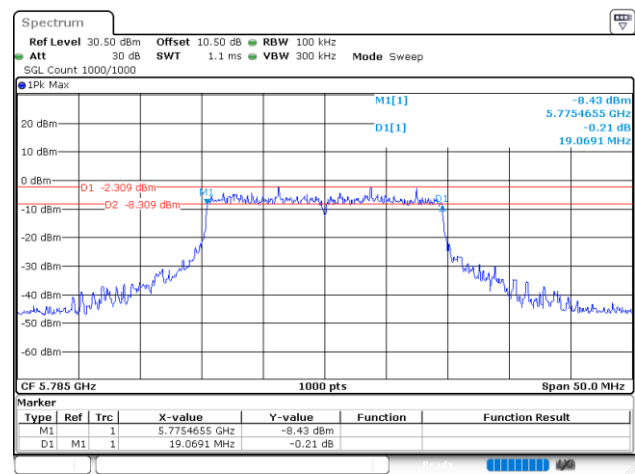
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Date: 9.JUN.2025 13:24:43

802.11ax20_5745MHz_RU_Full



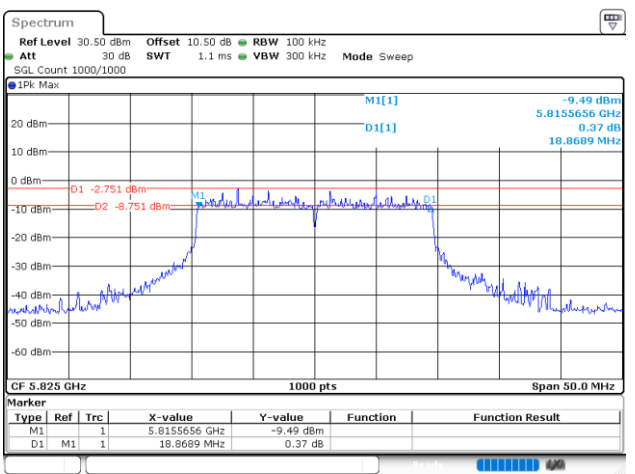
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802.11ax20_5785MHz_RU_Full



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Date: 9.JUN.2025 13:28:18

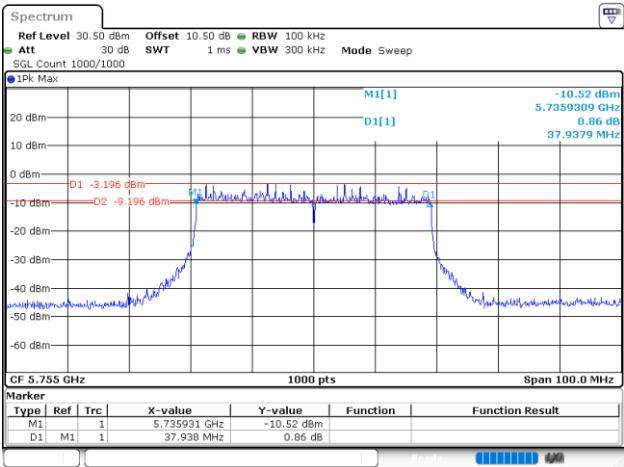
802.11ax20_5825MHz_RU_Full



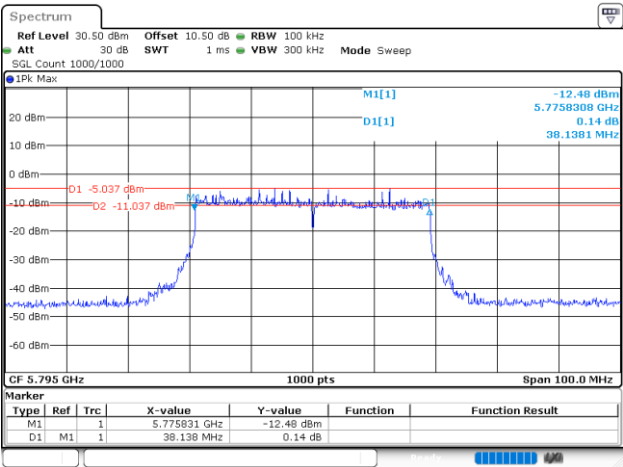
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Date: 9.JUN.2025 13:29:28

802.11ax40_5755MHz_RU_FULL

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:30:36



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:32:04

99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.750
	5200	16.800
	5240	16.750
802.11ac20	5180	18
	5200	17.950
	5240	17.950
802.11ac40	5190	36.500
	5230	36.600
802.11ax20_RU_Full	5180	19.150
	5200	19.150
	5240	19.050
802.11ax40_RU_FULL	5190	37.900
	5230	37.900

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

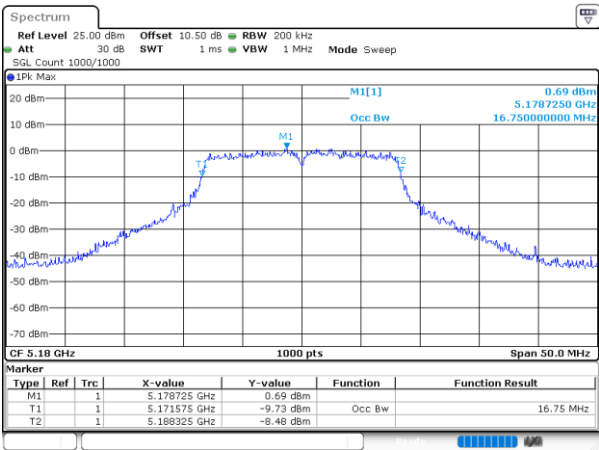
Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.850
	5785	16.900
	5825	16.850
802.11ac20	5745	18.050
	5785	18
	5825	18.050
802.11ac40	5755	36.700
	5795	36.900
802.11ax20_RU_Full	5745	19.200
	5785	19.200
	5825	19.250
802.11ax40_RU_FULL	5755	38.200
	5795	38

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

Bandwidth.

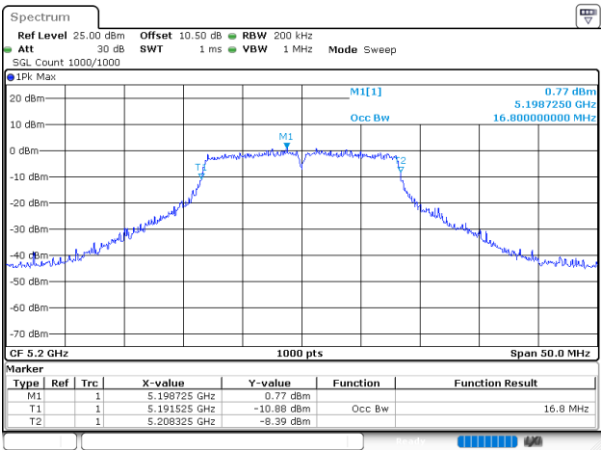
5150-5250MHz

802.11a_5180MHz



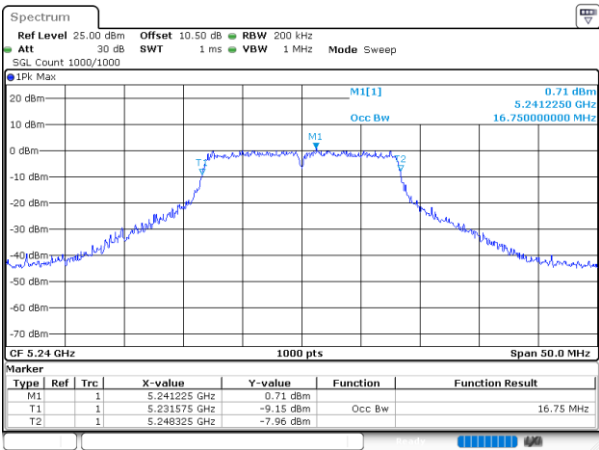
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Date: 9 JUN.2025 11:42:09

802.11a_5200MHz



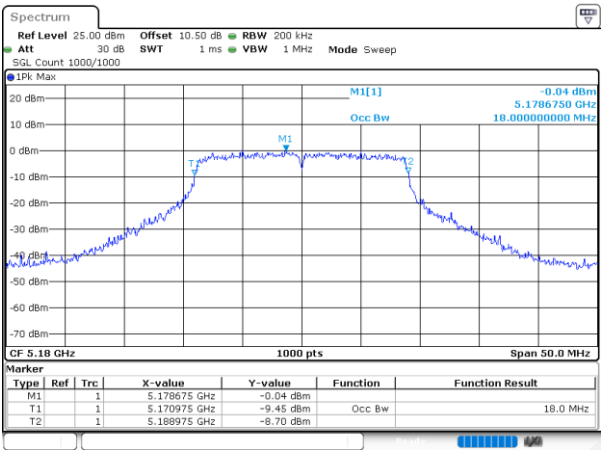
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Date: 9 JUN.2025 11:43:38

802.11a_5240MHz



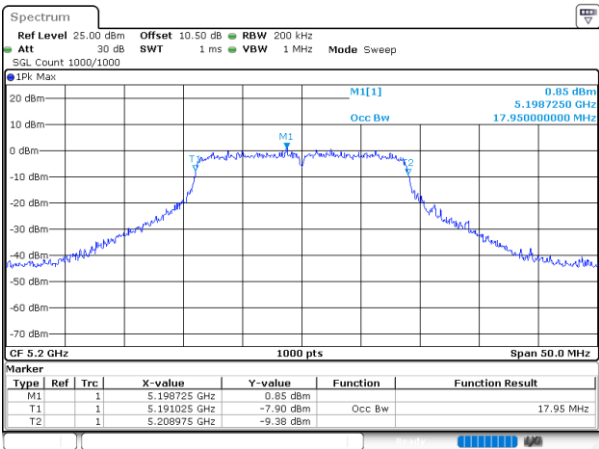
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Date: 9 JUN.2025 11:44:39

802.11ac20_5180MHz



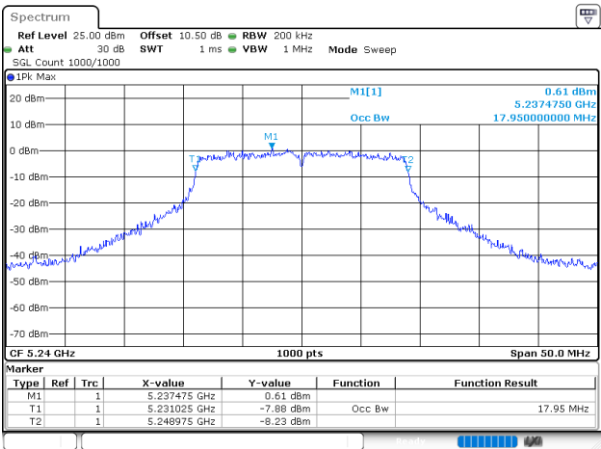
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Date: 9 JUN.2025 11:50:35

802.11ac20_5200MHz



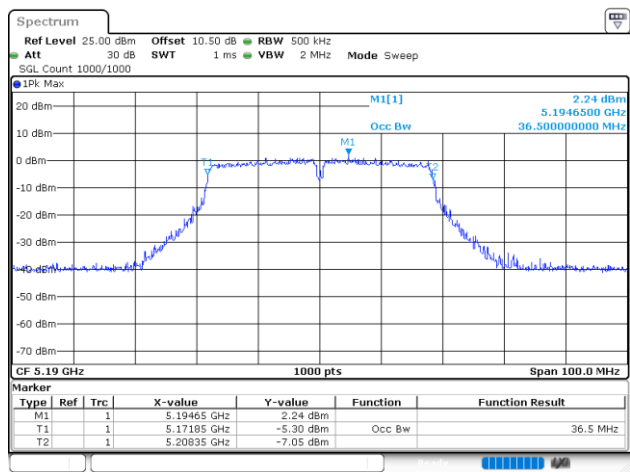
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Date: 9 JUN.2025 11:51:32

802.11ac20_5240MHz



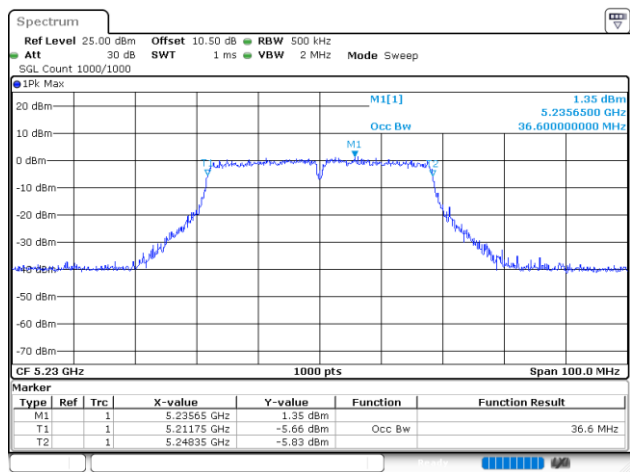
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802.11ac40_5190MHz



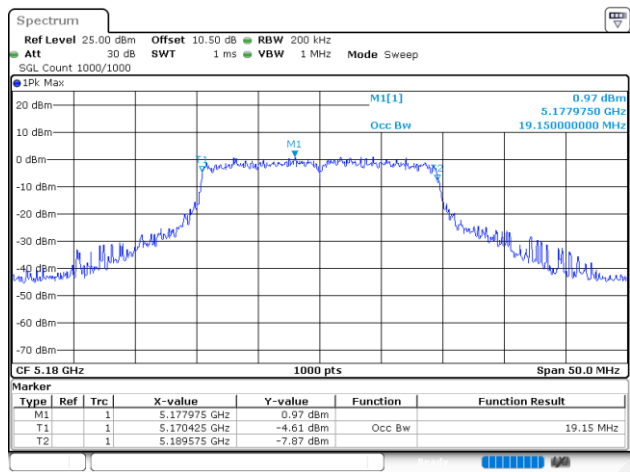
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Date: 9.JUN.2025 11:53:33

802.11ac40_5230MHz



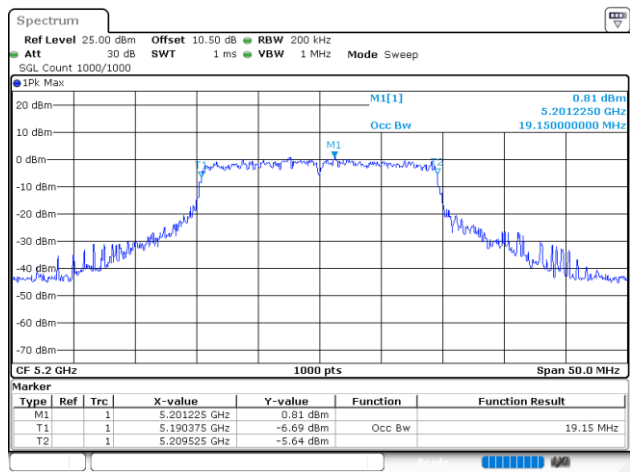
ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:54:09

802.11ax20_5180MHz_RU_Full



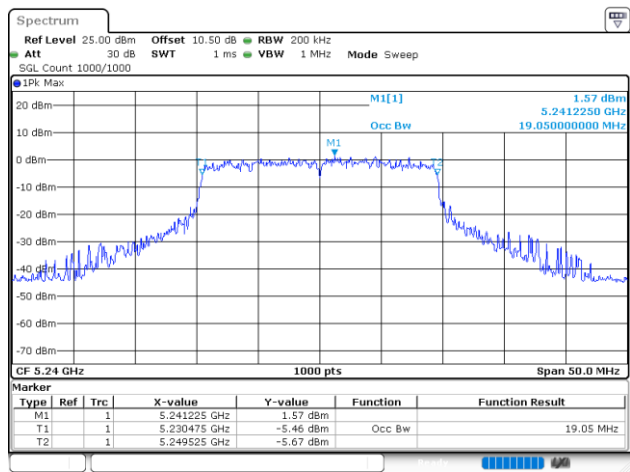
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Date: 9.JUN.2025 11:55:08

802.11ax20_5200MHz_RU_Full



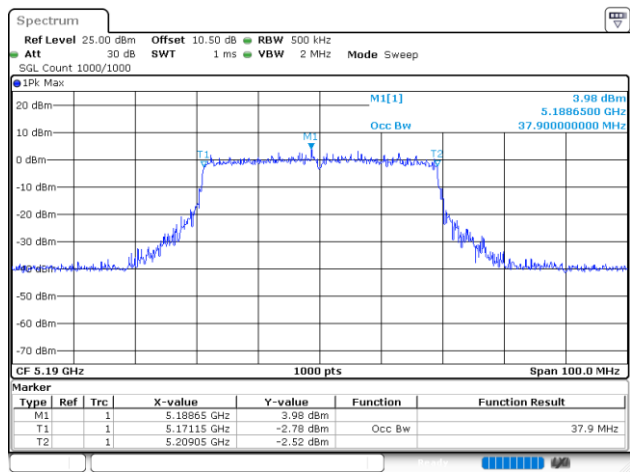
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Date: 9.JUN.2025 11:56:10

802.11ax20_5240MHz_RU_Full



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:57:08

802.11ax40_5190MHz_RU_FULL

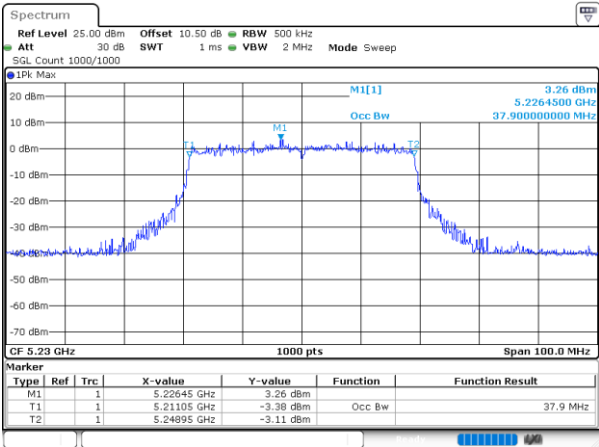


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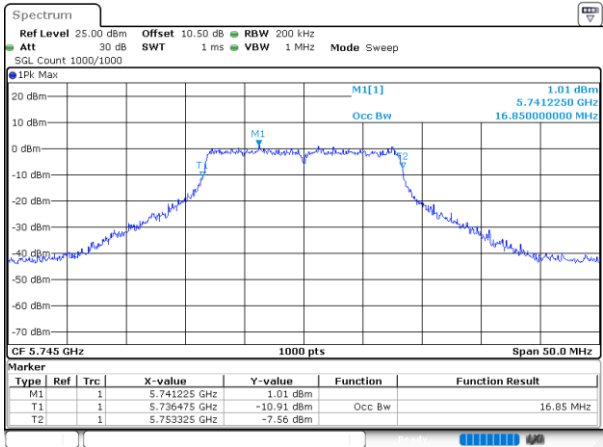
5725-5850MHz

802.11ax40_5230MHz_RU_FULL

802.11a_5745MHz



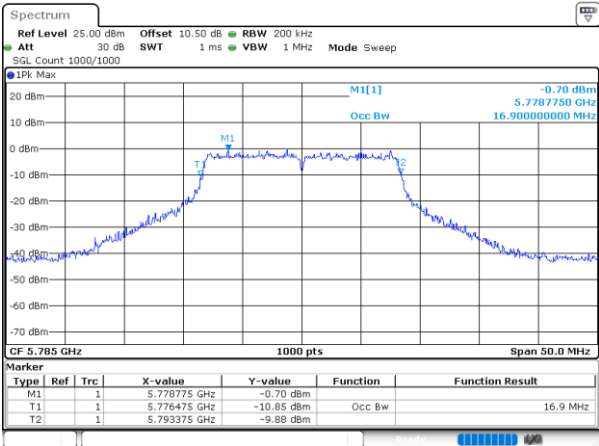
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Date: 9 JUN 2025 11:58:34



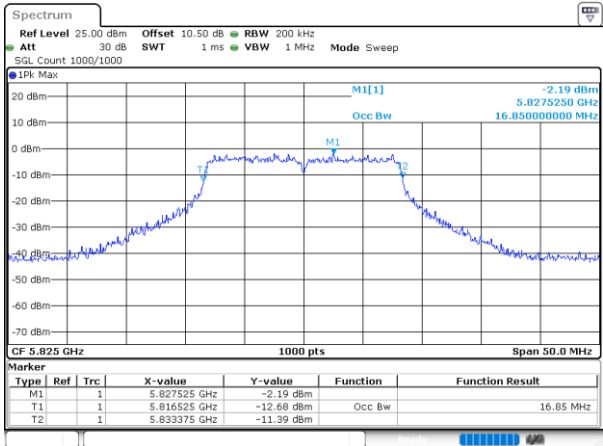
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Date: 9 JUN 2025 13:08:49

802.11a_5785MHz

802.11a_5825MHz



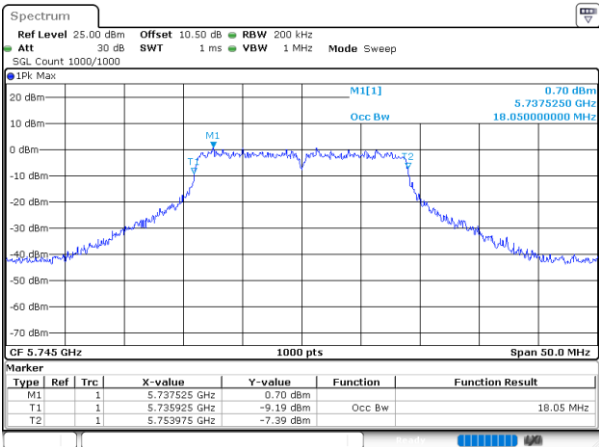
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Date: 9 JUN 2025 13:10:06



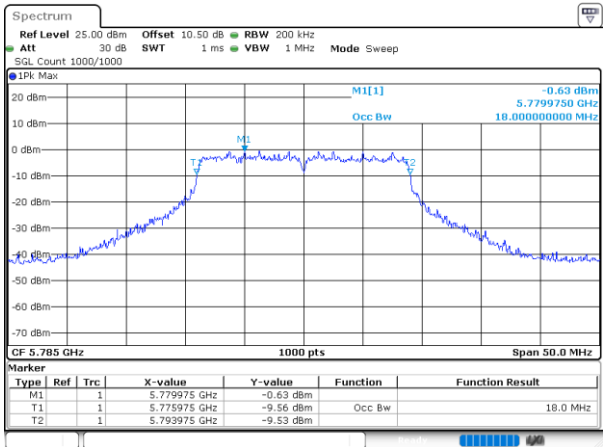
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802.11ac20_5745MHz

802.11ac20_5785MHz

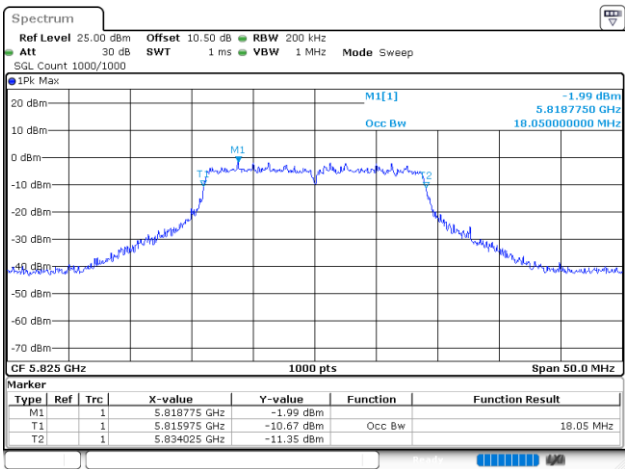


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Date: 9 JUN 2025 13:19:19



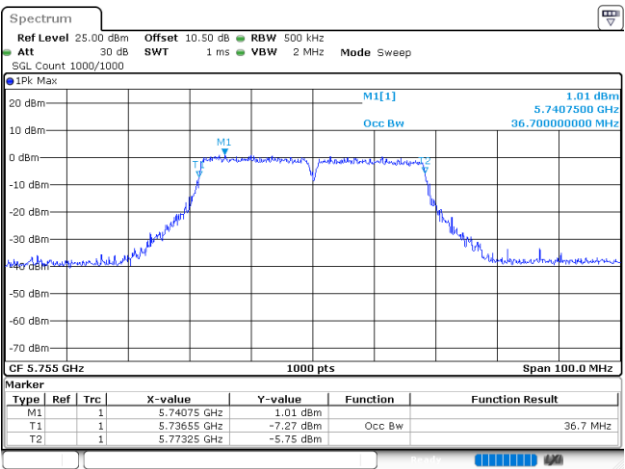
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802.11ac20_5825MHz



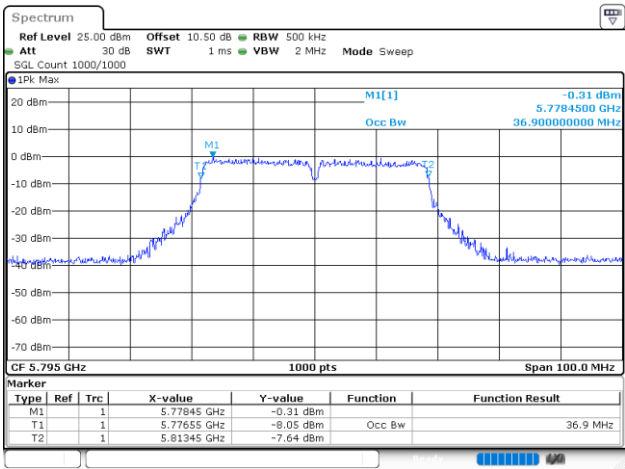
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Date: 9.JUN.2025 13:22:08

802.11ac40_5755MHz



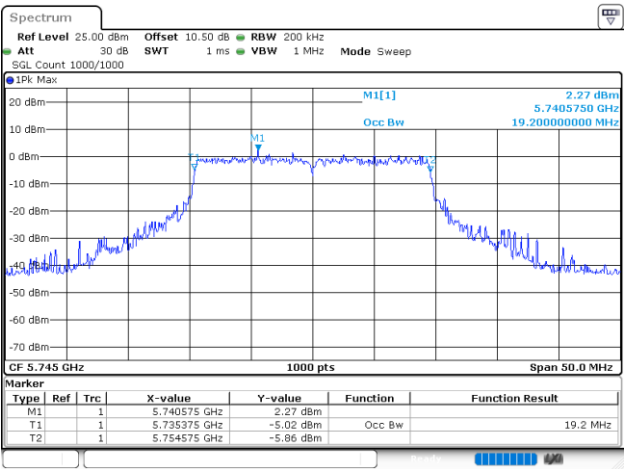
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Date: 9.JUN.2025 13:23:36

802.11ac40_5795MHz



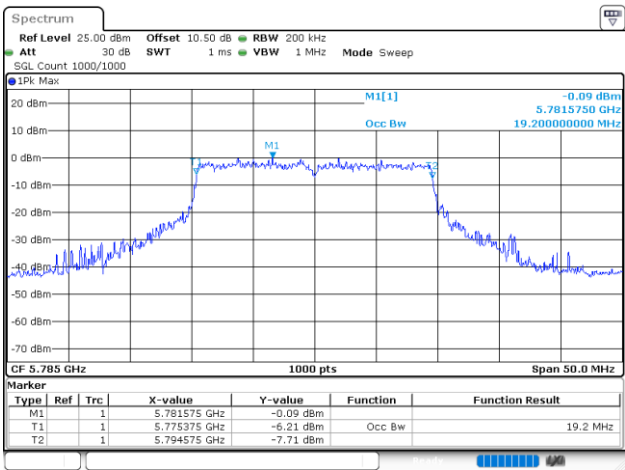
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Date: 9.JUN.2025 13:24:36

802.11ax20_5745MHz_RU_Full



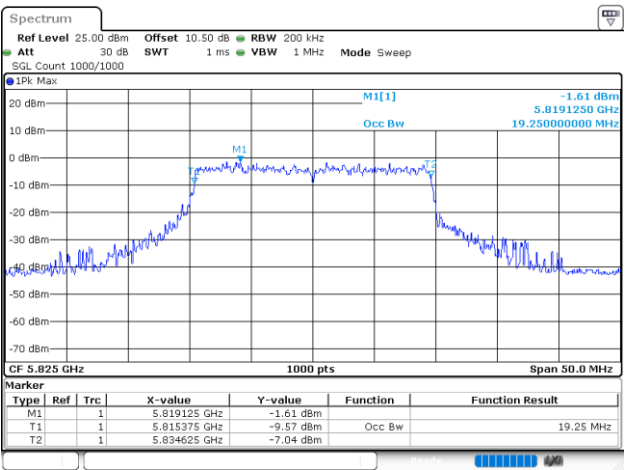
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Date: 9.JUN.2025 13:26:46

802.11ax20_5785MHz_RU_Full



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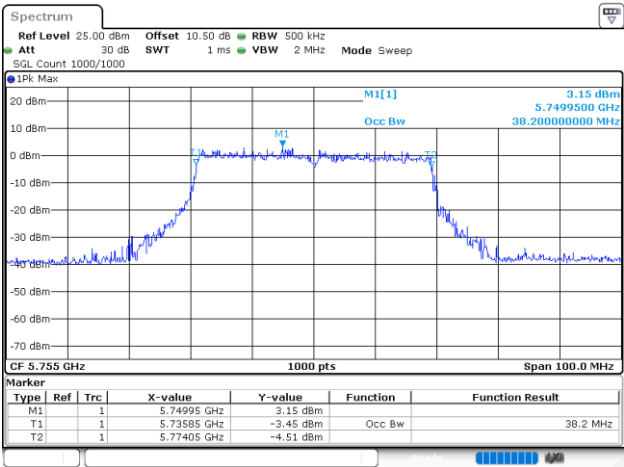
802.11ax20_5825MHz_RU_Full



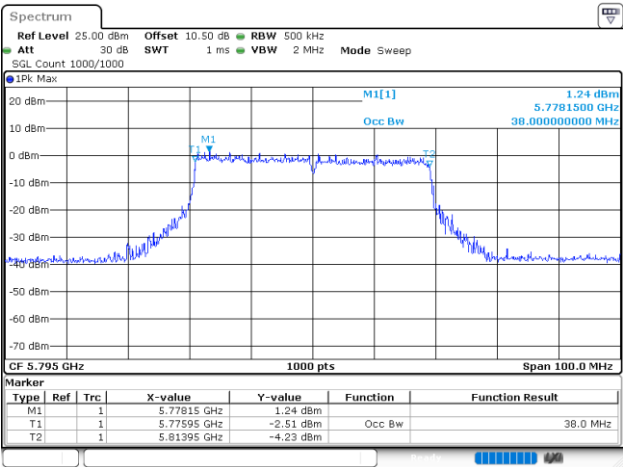
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Date: 9.JUN.2025 13:29:13

802.11ax40_5755MHz_RU_FULL

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:30:28



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:31:56

Maximum Conducted Output Power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	11.0	24	Pass
	5200	10.79	24	Pass
	5240	11.42	24	Pass
802.11ac20	5180	10.95	24	Pass
	5200	11.19	24	Pass
	5240	10.53	24	Pass
802.11ac40	5190	10.43	24	Pass
	5230	11.15	24	Pass
802.11ax20_RU_Full	5180	10.74	24	Pass
	5200	11.71	24	Pass
	5240	10.26	24	Pass
802.11ax40_RU_FULL	5190	10.77	24	Pass
	5230	10.82	24	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	10.8	30	Pass
	5785	9.45	30	Pass
	5825	8.24	30	Pass
802.11ac20	5745	11.36	30	Pass
	5785	9.71	30	Pass
	5825	8.3	30	Pass
802.11ac40	5755	10.89	30	Pass
	5795	8.49	30	Pass
802.11ax20_RU_Full	5745	10.84	30	Pass
	5785	8.59	30	Pass
	5825	8.14	30	Pass
802.11ax40_RU_FULL	5755	11.09	30	Pass
	5795	8.41	30	Pass

Note:
Average Output Power = Reading + Duty Factor
Duty Factor refer to the Duty Cycle.

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	-7.32	7.73	0.41	11	Pass
	5200	-6.44	7.73	1.29	11	Pass
	5240	-6.07	7.73	1.66	11	Pass
802.11ac20	5180	-6.47	7.97	1.50	11	Pass
	5200	-7.43	7.97	0.54	11	Pass
	5240	-6.98	7.97	0.99	11	Pass
802.11ac40	5190	-12.32	10.68	-1.64	11	Pass
	5230	-12.54	10.68	-1.86	11	Pass
802.11ax20_RU_Full	5180	-7.37	8.96	1.59	11	Pass
	5200	-8.53	8.96	0.43	11	Pass
	5240	-6.48	8.96	2.48	11	Pass
802.11ax40_RU_FULL	5190	-11.61	11.55	-0.06	11	Pass
	5230	-12.30	11.55	-0.75	11	Pass

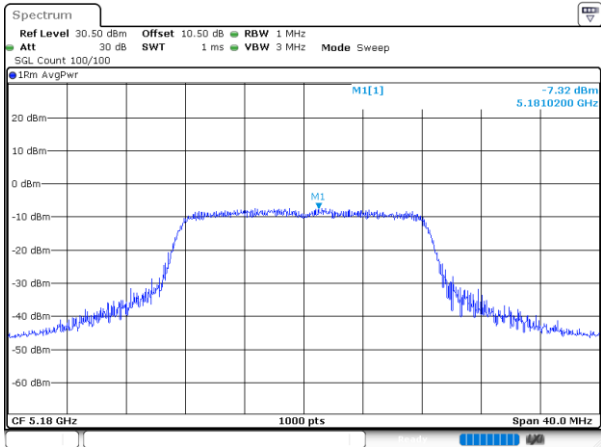
5725-5850MHz

Mode	Test Frequency (MHz)	Reading (dBm/500kHz)	Duty Cycle Factor(dB)	Result (dBm/500kHz)	Limit (dBm/500kHz)	Verdict
802.11a	5745	-9.26	7.74	-1.52	30	Pass
	5785	-10.62	7.74	-2.88	30	Pass
	5825	-11.95	7.74	-4.21	30	Pass
802.11ac20	5745	-10.10	7.97	-2.13	30	Pass
	5785	-11.84	7.97	-3.87	30	Pass
	5825	-12.51	7.97	-4.54	30	Pass
802.11ac40	5755	-15.55	10.70	-4.85	30	Pass
	5795	-15.39	10.70	-4.69	30	Pass
802.11ax20_RU_Full	5745	-8.91	8.96	0.05	30	Pass
	5785	-12.23	8.96	-3.27	30	Pass
	5825	-12.70	8.96	-3.74	30	Pass
802.11ax40_RU_FULL	5755	-14.63	11.52	-3.11	30	Pass
	5795	-17.46	11.52	-5.94	30	Pass

Result = Reading + Duty Cycle Factor

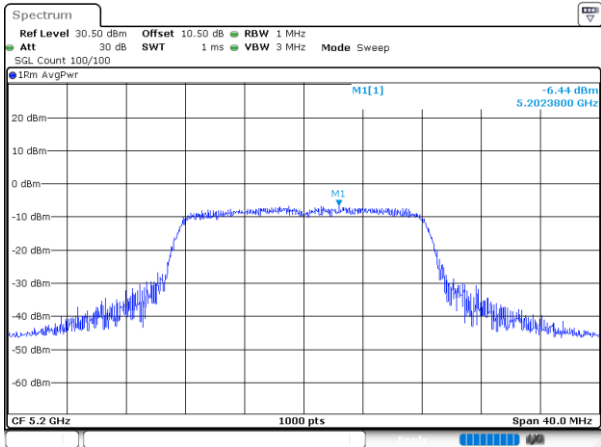
5150-5250MHz

802.11a_5180MHz



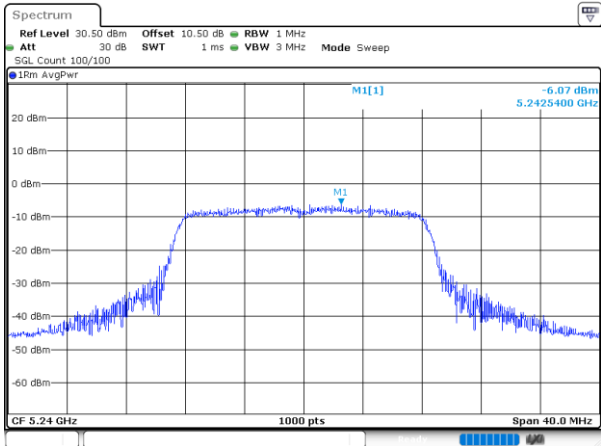
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Date: 9,JUN,2025 11:42:40

802.11a_5200MHz



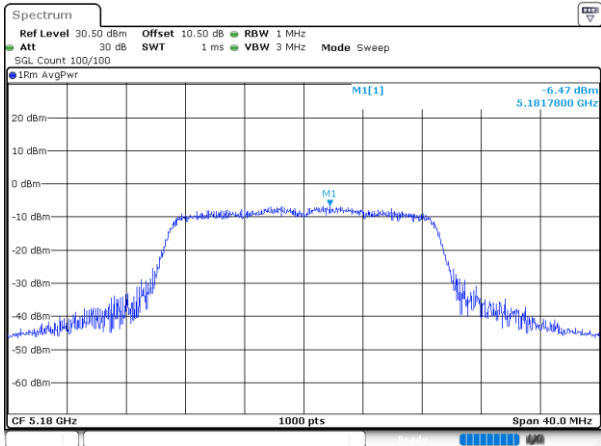
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Date: 9,JUN,2025 11:44:06

802.11a_5240MHz



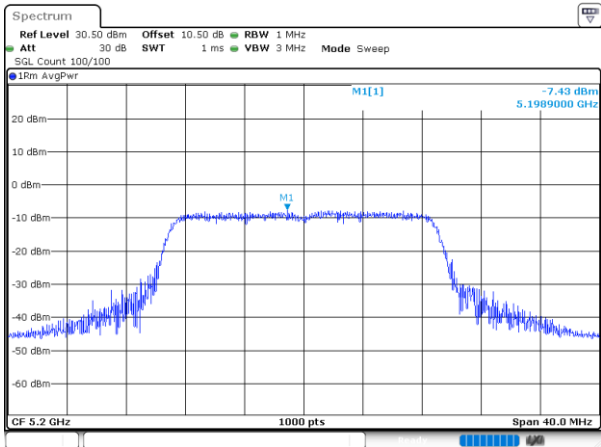
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Date: 9,JUN,2025 11:45:06

802.11ac20_5180MHz



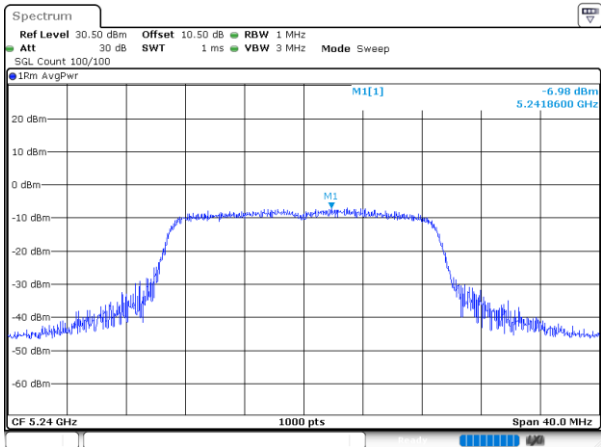
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Date: 9,JUN,2025 11:51:08

802.11ac20_5200MHz



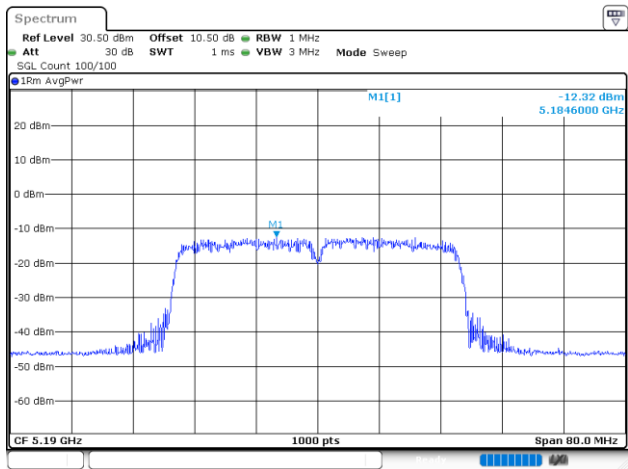
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Date: 9,JUN,2025 11:52:01

802.11ac20_5240MHz



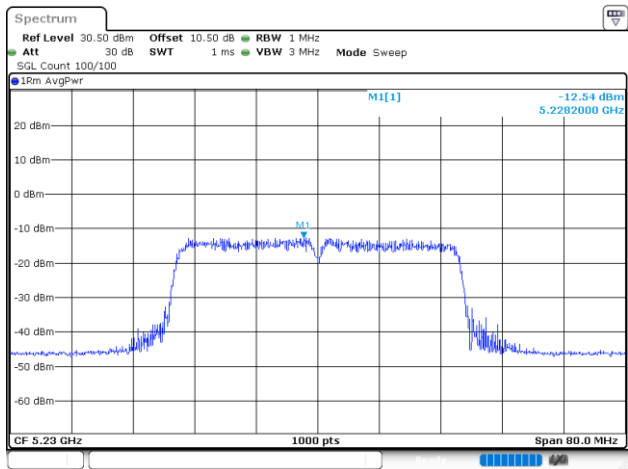
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802.11ac40_5190MHz



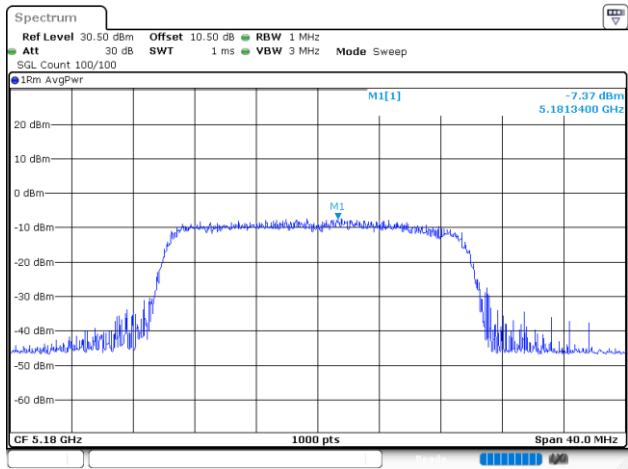
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Date: 9.JUN.2025 11:53:49

802.11ac40_5230MHz



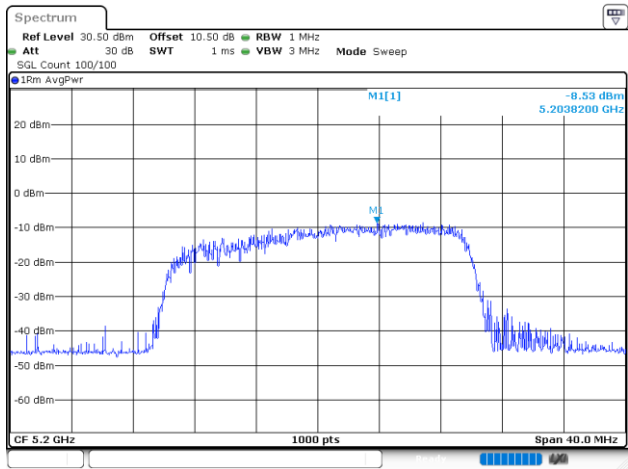
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Date: 9.JUN.2025 11:54:25

802.11ax20_5180MHz_RU_Full



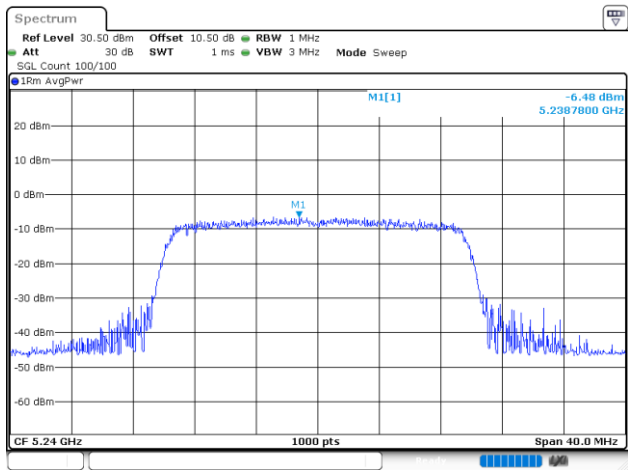
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802.11ax20_5200MHz_RU_Full



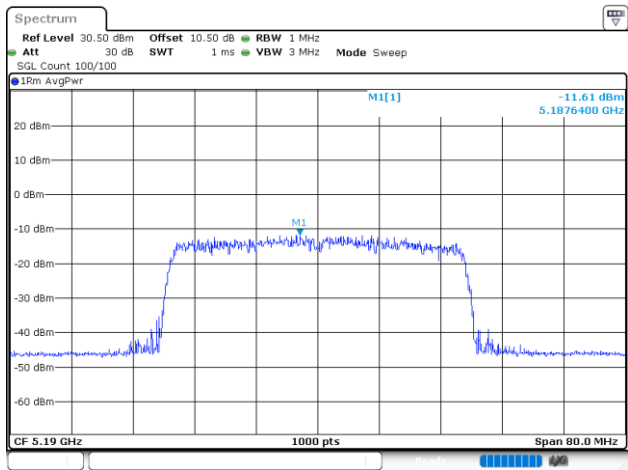
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802.11ax20_5240MHz_RU_Full



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:57:37

802.11ax40_5190MHz_RU_FULL

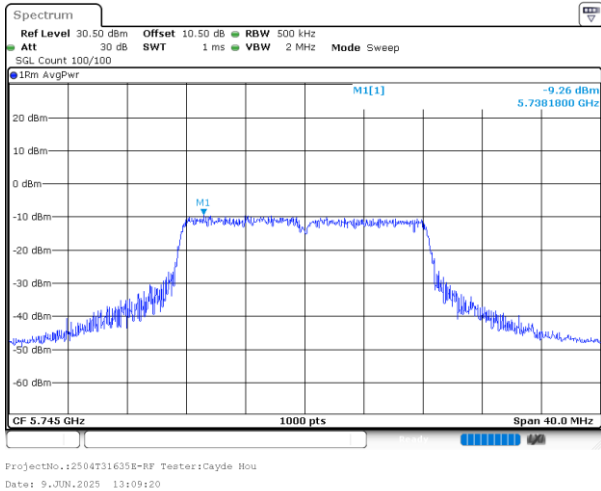
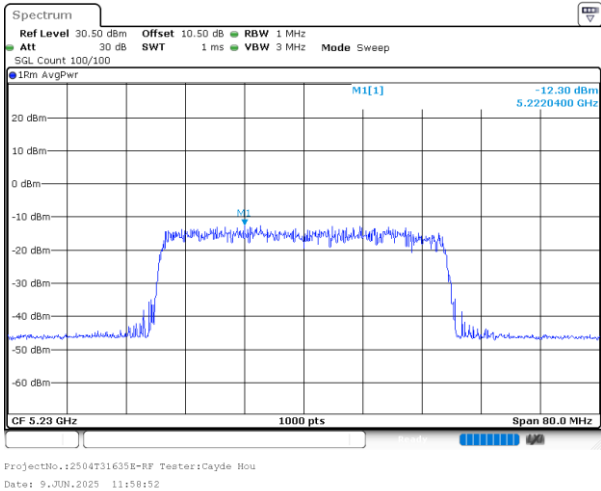


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Date: 9.JUN.2025 11:58:15

5725-5850MHz

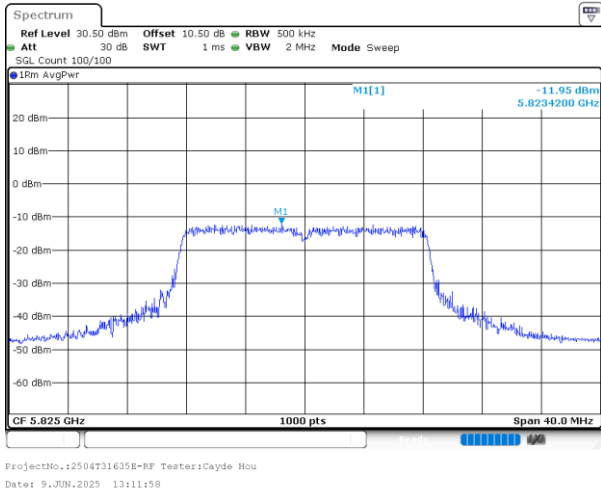
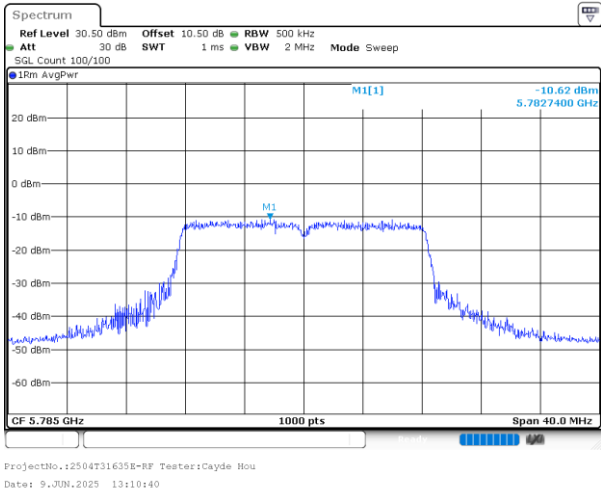
802.11ax40_5230MHz_RU_FULL

802.11a_5745MHz



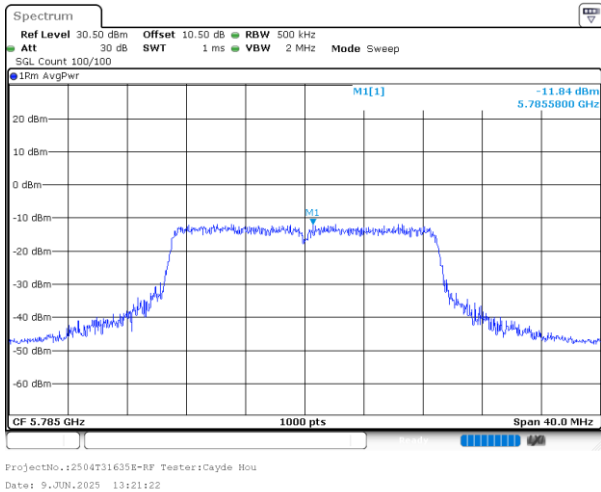
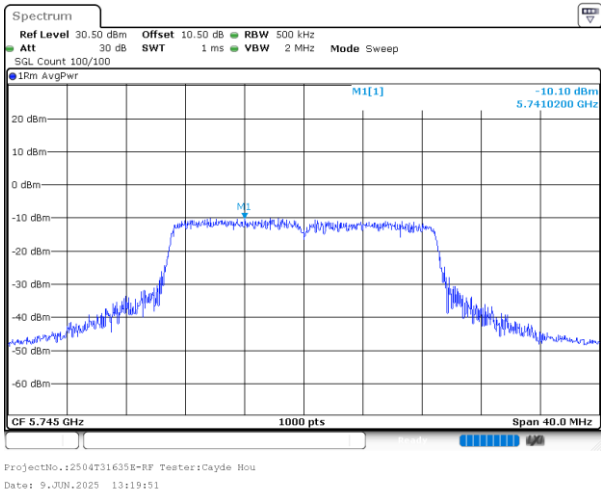
802.11a_5785MHz

802.11a_5825MHz

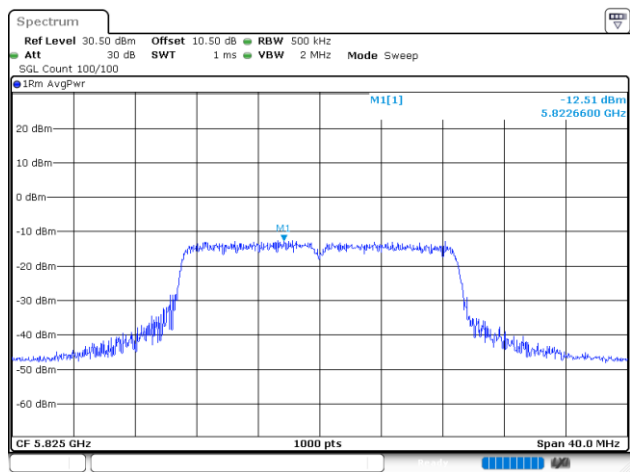


802.11ac20_5745MHz

802.11ac20_5785MHz

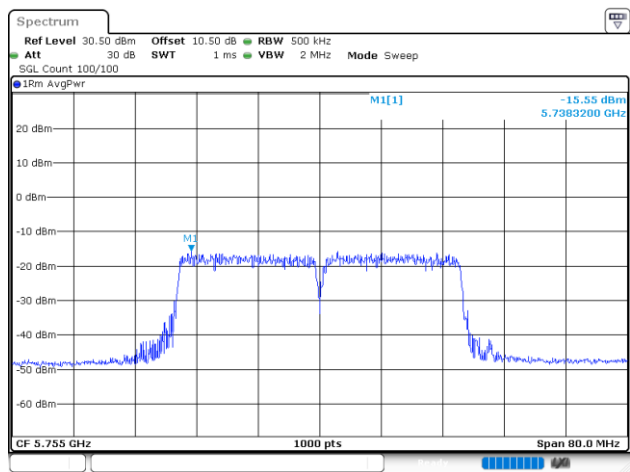


802.11ac20_5825MHz



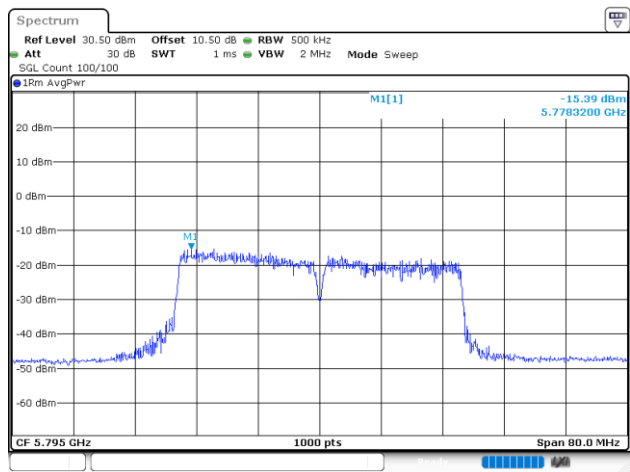
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Date: 9.JUN.2025 13:22:35

802.11ac40_5755MHz



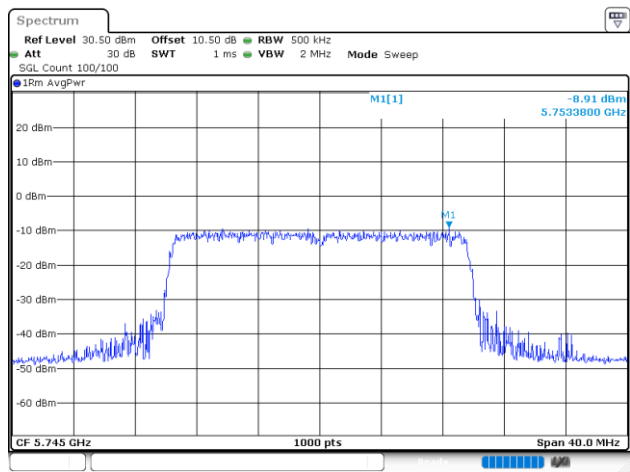
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802.11ac40_5795MHz



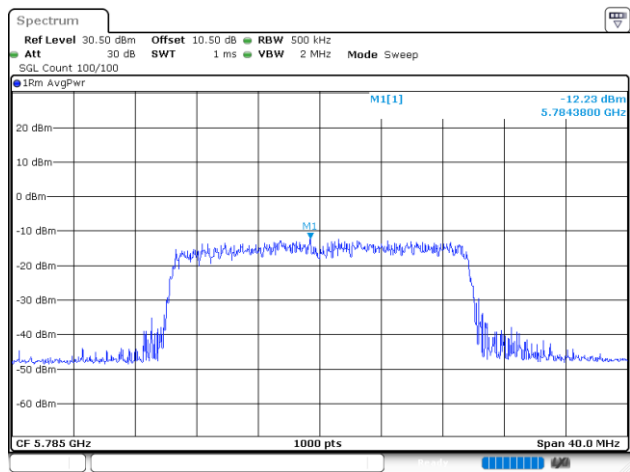
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Date: 9.JUN.2025 13:24:55

802.11ax20_5745MHz_RU_Full



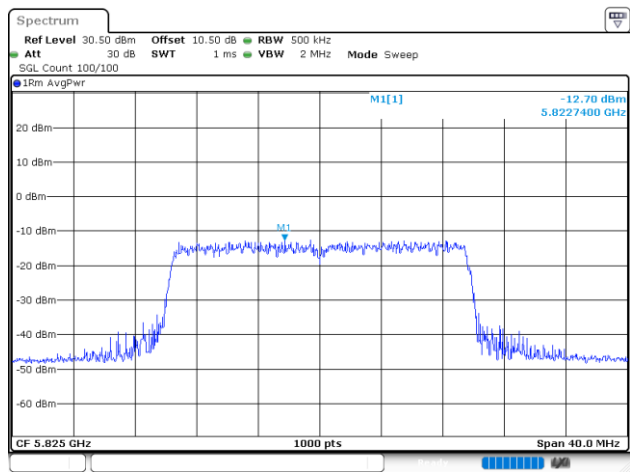
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Date: 9.JUN.2025 13:23:19

802.11ax20_5785MHz_RU_Full



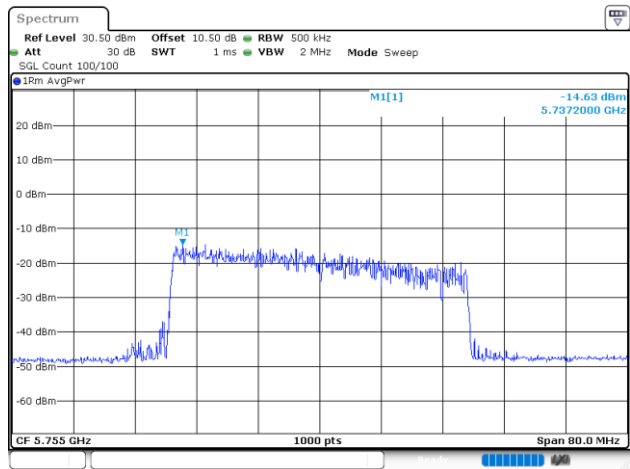
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Date: 9.JUN.2025 13:28:30

802.11ax20_5825MHz_RU_Full



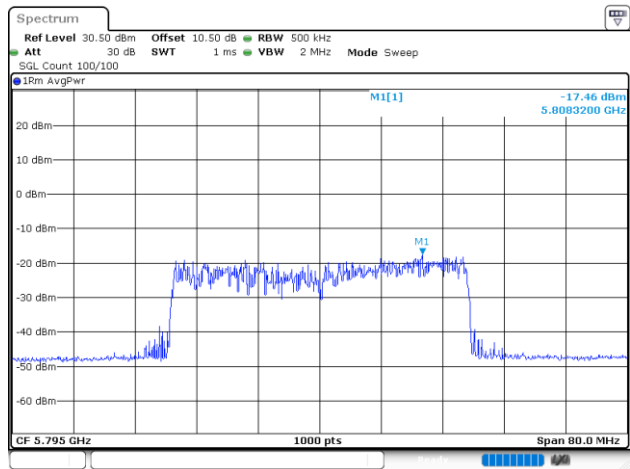
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Date: 9.JUN.2025 13:29:40

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:30:48

802.11ax40_5795MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 13:32:16

Duty Cycle

5150-5250MHz

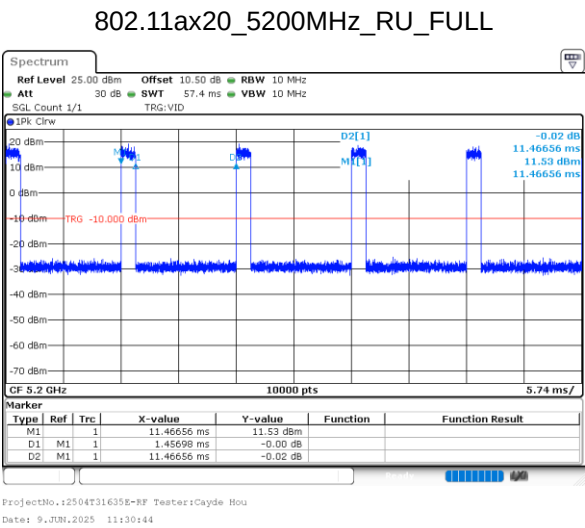
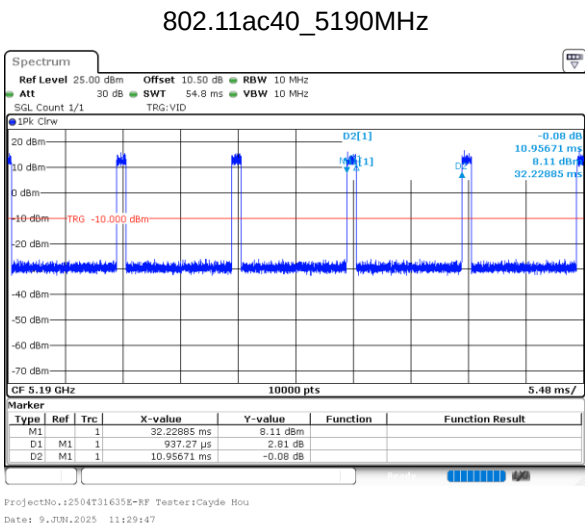
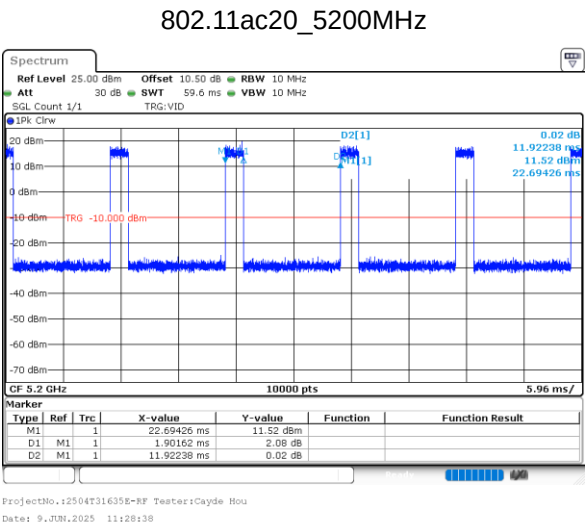
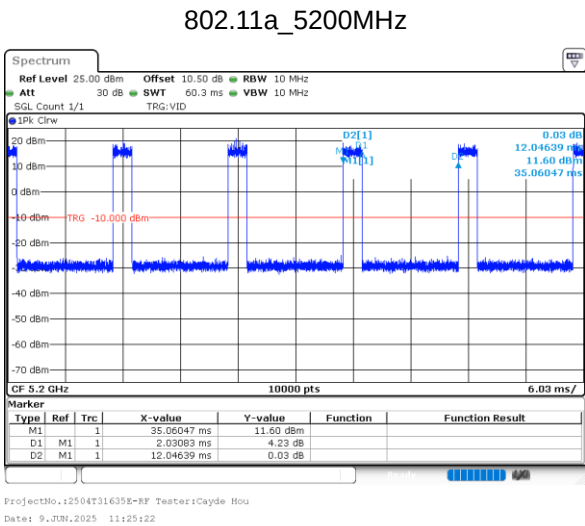
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5200	2.031	12.046	16.86	7.73	492	0.500
802.11ac20	5200	1.902	11.922	15.95	7.97	526	1
802.11ac40	5190	0.937	10.957	8.55	10.68	1067	2
802.11ax20_RU_FULL	5200	1.457	11.467	12.71	8.96	686	1
802.11ax40_RU_FULL	5190	0.754	10.772	7.00	11.55	1326	2

5725-5850MHz

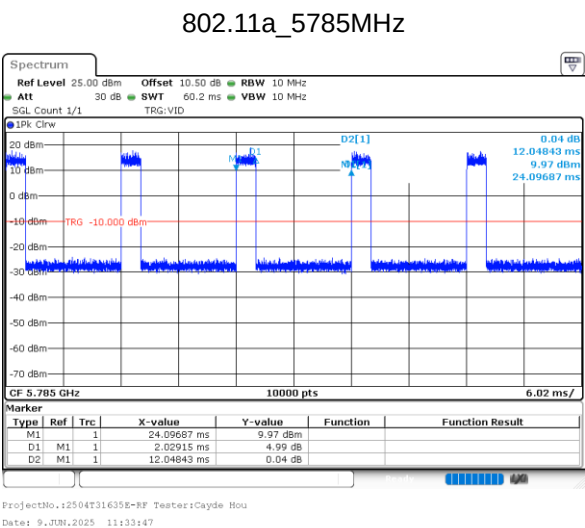
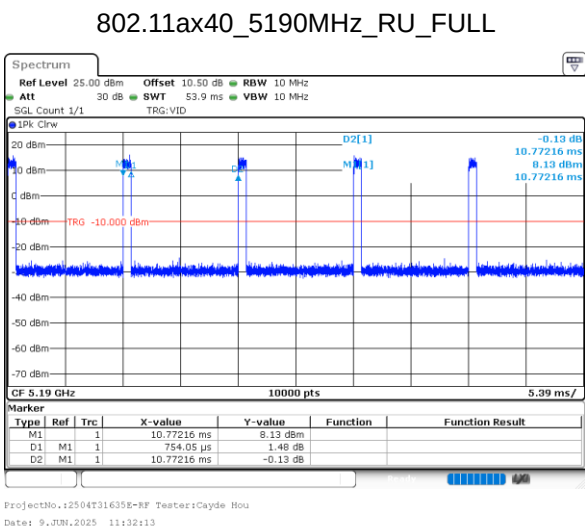
Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5785	2.029	12.048	16.84	7.74	493	0.500
802.11ac20	5785	1.902	11.922	15.95	7.97	526	1
802.11ac40	5755	0.933	10.954	8.52	10.70	1072	2
802.11ax20_RU_FULL	5785	1.457	11.472	12.70	8.96	686	1
802.11ax40_RU_FULL	5755	0.760	10.788	7.04	11.52	1316	2

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

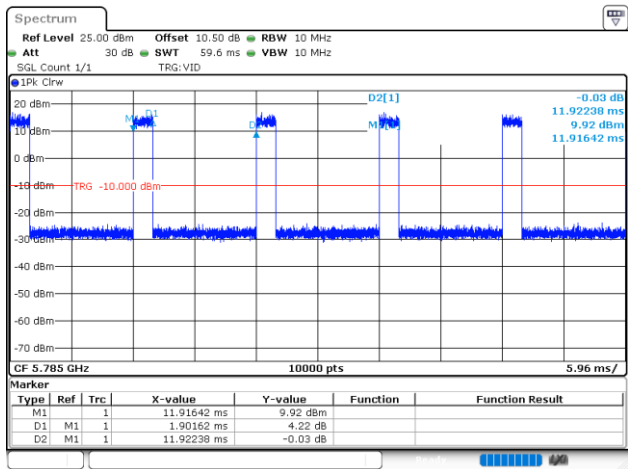
5150-5250MHz



5725-5850MHz

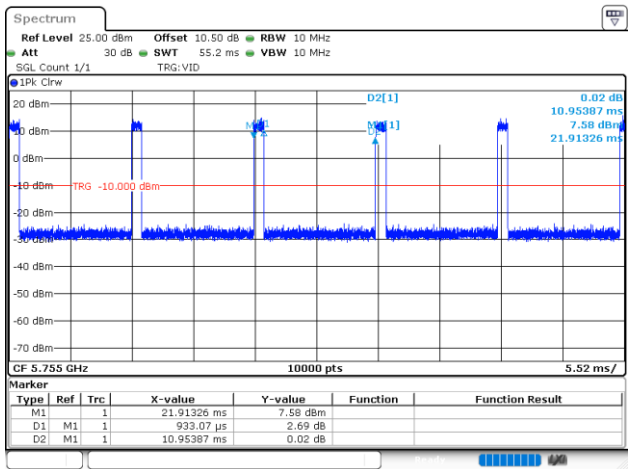


802.11ac20_5785MHz



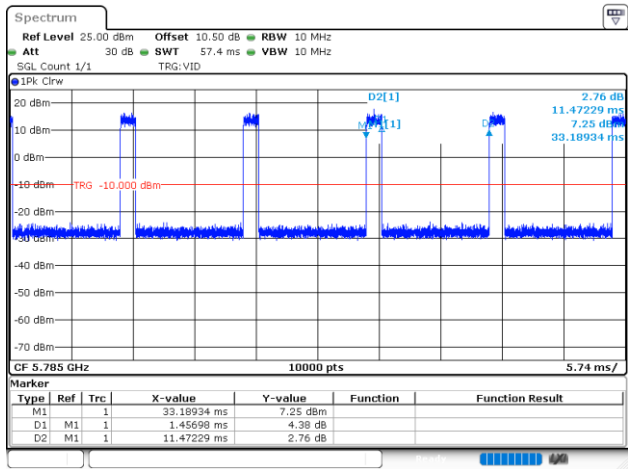
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Date: 9.JUN.2025 11:36:28

802.11ac40_5755MHz



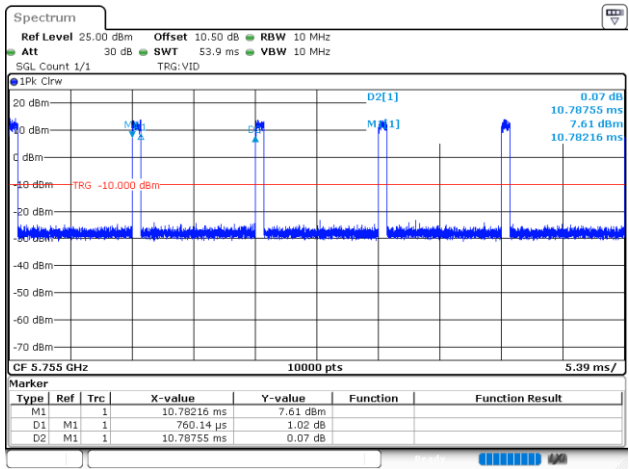
ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:38:01

802.11ax20_5785MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:38:51

802.11ax40_5755MHz_RU_FULL



ProjectNo.:2504T31635E-RF Tester:Cayde Hou
Date: 9.JUN.2025 11:39:55

***** END *****