

Test Information:

Sample No.:	2SY1-1	Test Date:	2024/11/19~2024/12/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	25-27	Relative Humidity: (%)	45-48	ATM Pressure: (kPa)	101
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99% Occupied Bandwidth

5150-5250MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5180	16.700
	5200	16.700
	5240	16.700
802.11ac20	5180	17.700
	5200	17.700
	5240	17.700
802.11ac40	5190	36.300
	5230	36.400

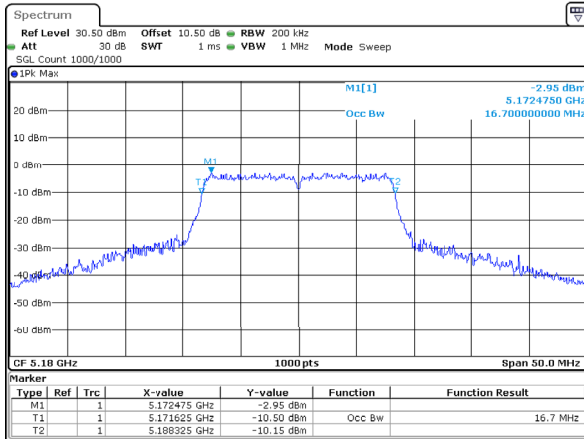
5725-5850MHz

Mode	Test Frequency (MHz)	99% OBW (MHz)
802.11a	5745	16.700
	5785	16.700
	5825	16.650
802.11ac20	5745	17.700
	5785	17.750
	5825	17.750
802.11ac40	5755	36.300
	5795	36.300

Note:
No transmitted signal in the 99% bandwidth extends into the U-NII-2A band and U-NII-2C band. please refer to the test plots of 99% Occupied Bandwidth.

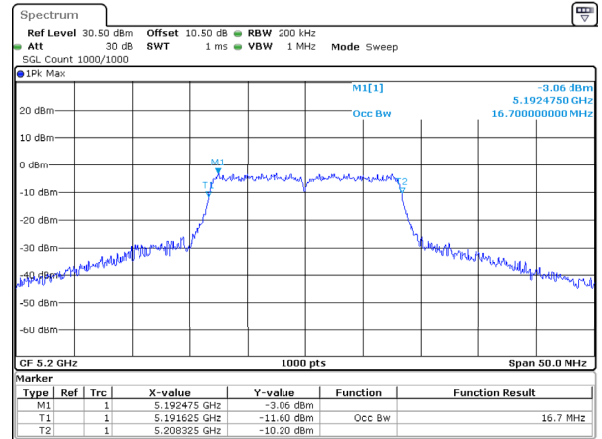
5150-5250MHz

802.11a_5180MHz 16.700MHz



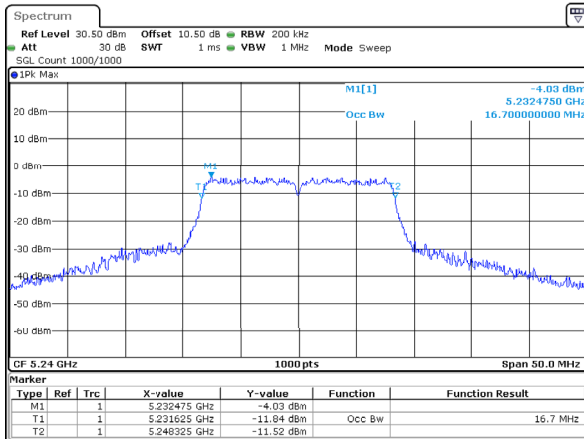
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:13:55

802.11a_5200MHz 16.700MHz



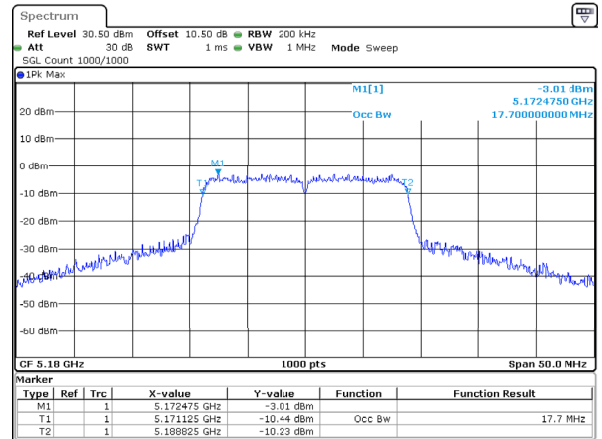
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:14:56

802.11a_5240MHz 16.700MHz



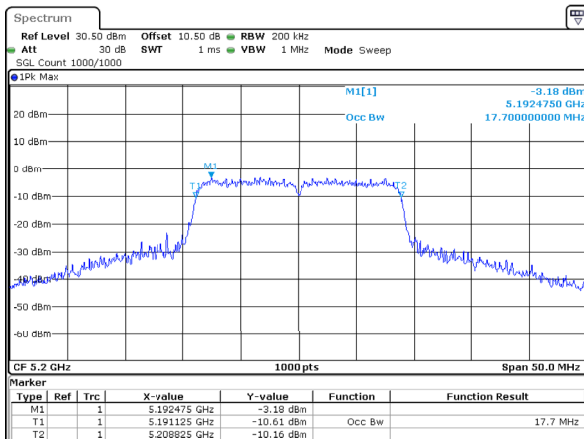
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Date: 19.NOV.2024 18:15:55

802.11ac20_5180MHz 17.700MHz



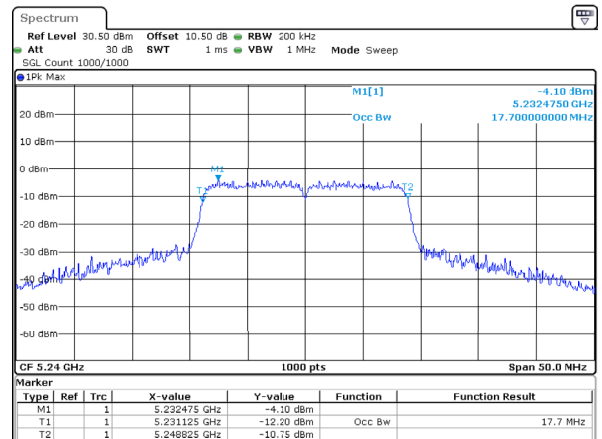
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Date: 19.NOV.2024 18:17:04

802.11ac20_5200MHz 17.700MHz



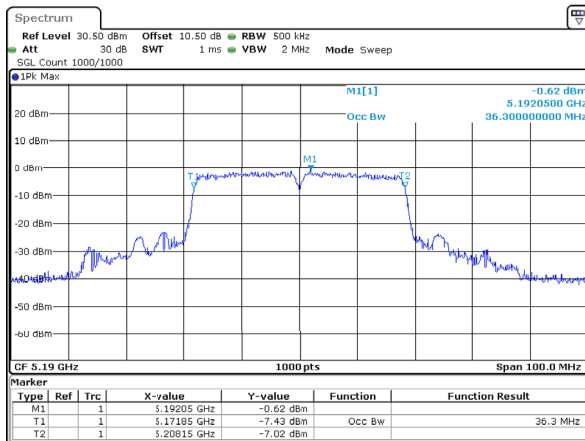
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:17:52

802.11ac20_5240MHz 17.700MHz



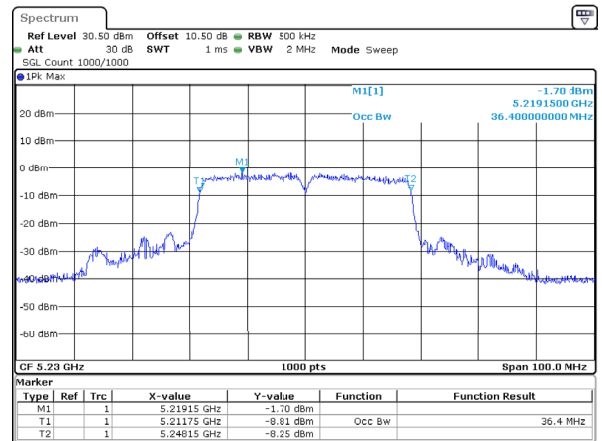
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:18:45

802.11ac40_5190MHz 36.300MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:19:24

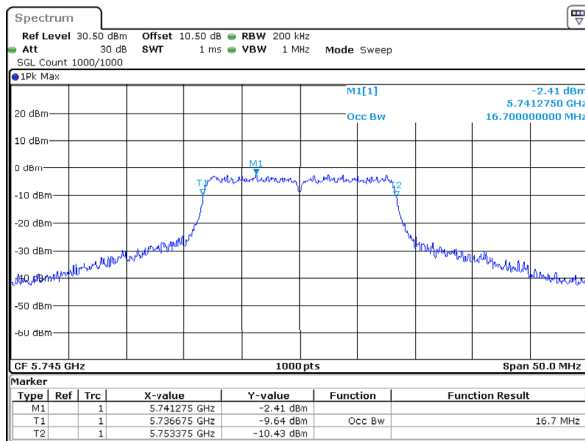
802.11ac40_5230MHz 36.400MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 19.NOV.2024 18:20:03

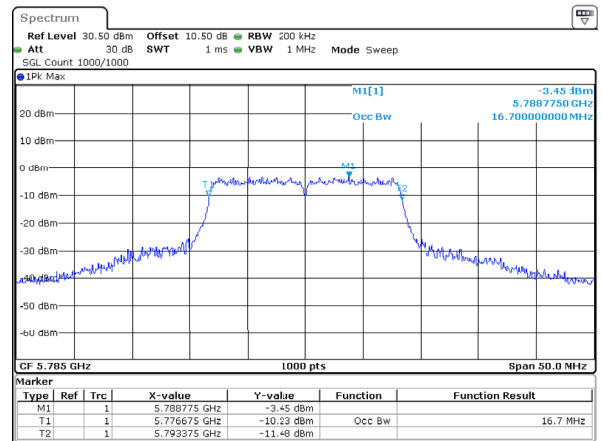
5725-5850MHz

802.11a_5745MHz 16.700MHz



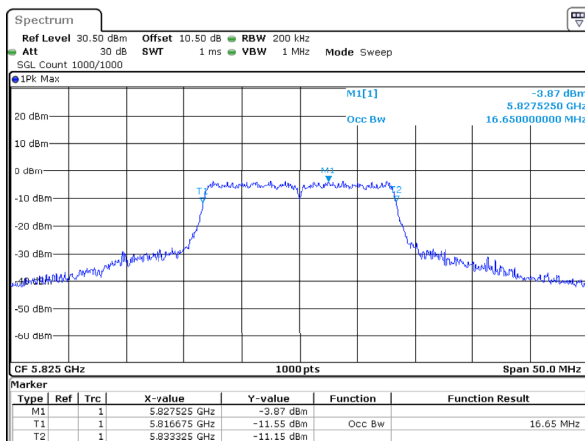
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 4.DEC.2024 01:14:07

802.11a_5785MHz 16.700MHz



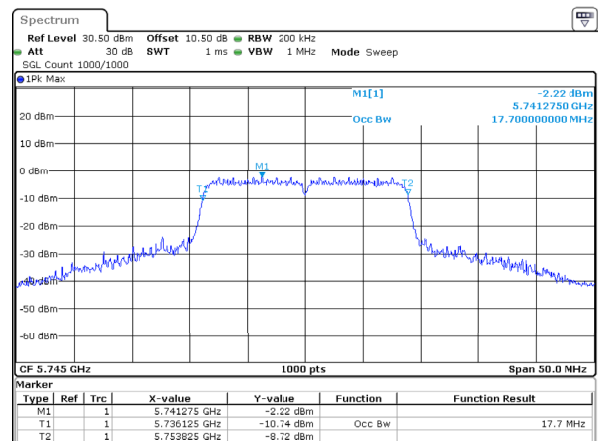
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Date: 4.DEC.2024 01:14:40

802.11a_5825MHz 16.650MHz



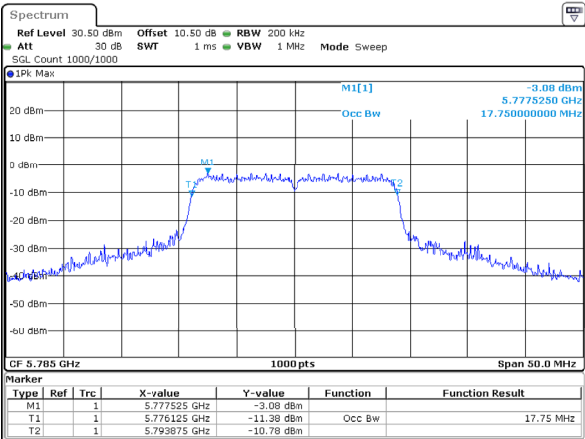
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 4.DEC.2024 01:15:06

802.11ac20_5745MHz 17.700MHz



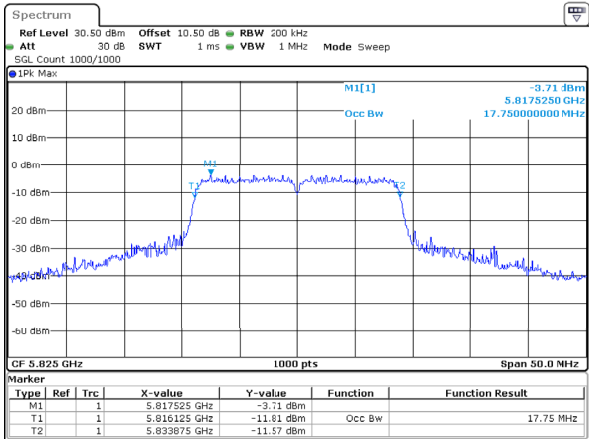
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Date: 4.DEC.2024 01:15:37

802.11ac20_5785MHz 17.750MHz



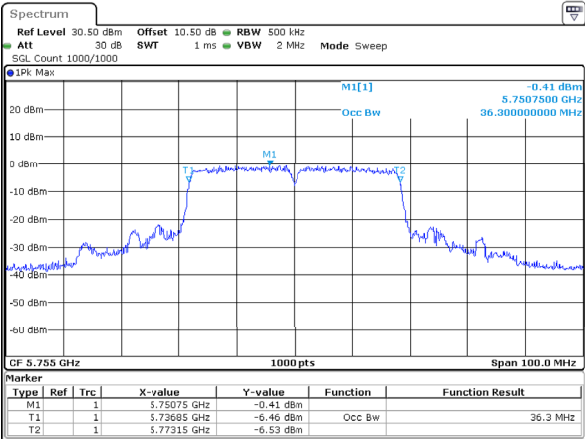
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Date: 4.DEC.2024 01:16:09

802.11ac20_5825MHz 17.750MHz



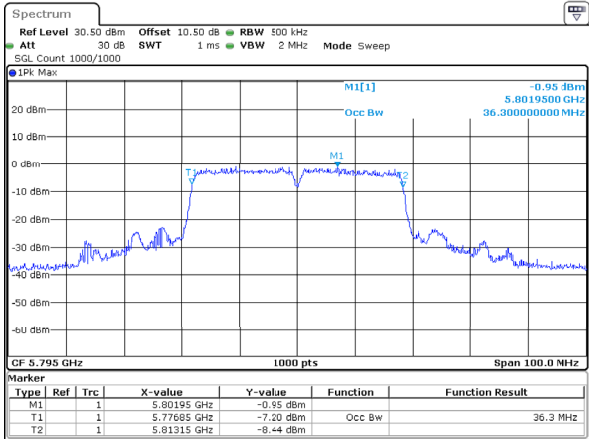
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 4.DEC.2024 01:16:32

802.11ac40_5755MHz 36.300MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 4.DEC.2024 01:16:54

802.11ac40_5795MHz 36.300MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 4.DEC.2024 01:17:11

Test Information:

Sample No.:	2SY1-1	Test Date:	2024/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	N/A

Environmental Conditions:

Temperature: (°C):	25	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101
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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	100	100	100	0	NA	0.010
802.11ac20	5200	100	100	100	0	NA	0.010
802.11ac40	5190	100	100	100	0	NA	0.010

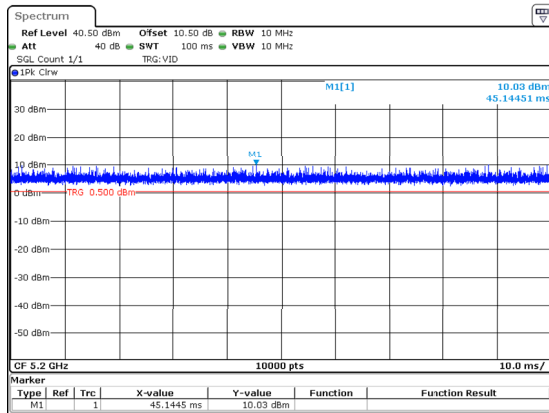
5725-5850MHz

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	5785	100	100	100	0	NA	0.010
802.11ac20	5785	100	100	100	0	NA	0.010
802.11ac40	5755	100	100	100	0	NA	0.010

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

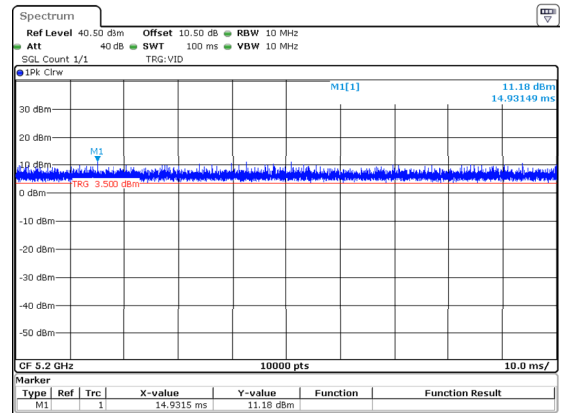
5150-5250MHz

802.11a_5200MHz
100ms,100ms



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:45:19

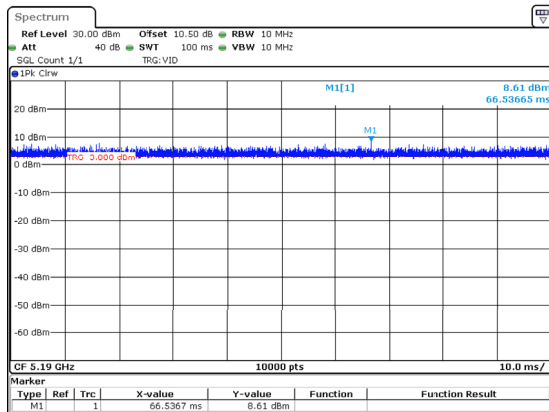
802.11ac20_5200MHz
100ms,100ms



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:47:33

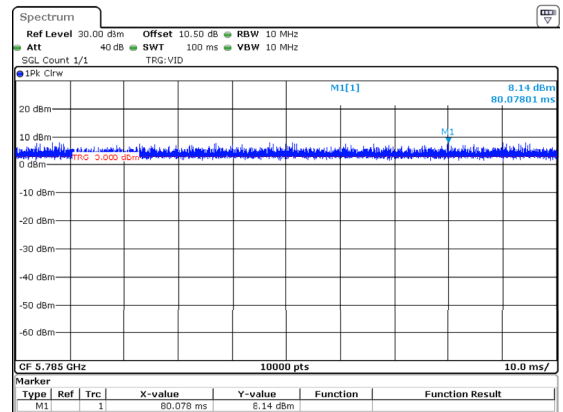
5725-5850MHz

802.11ac40_5190MHz
100ms,100ms



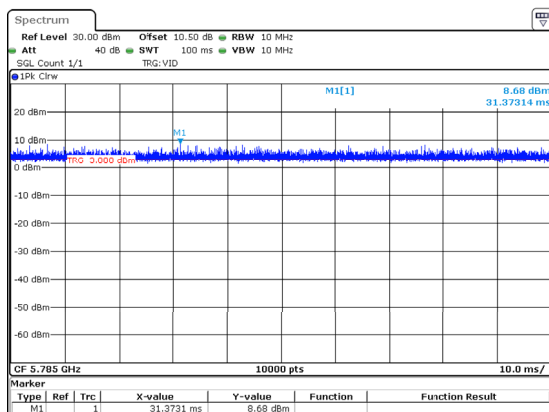
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:50:11

802.11a_5785MHz
100ms,100ms



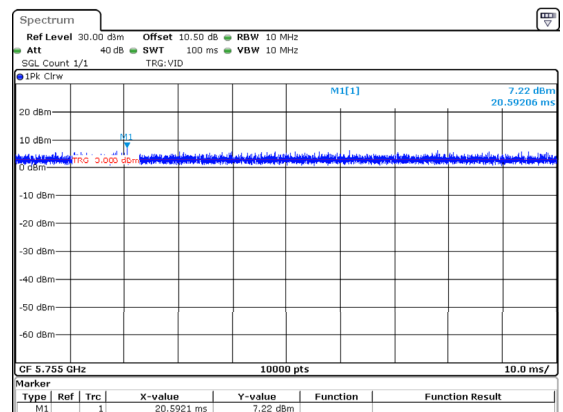
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:46:39

802.11ac20_5785MHz
100ms,100ms



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:48:12

802.11ac40_5755MHz
100ms,100ms



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 20:50:31

Test Information:

Sample No.:	2SY1-1	Test Date:	2024/10/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101
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Emission Bandwidth

26dB Emission Bandwidth
5150-5250MHz

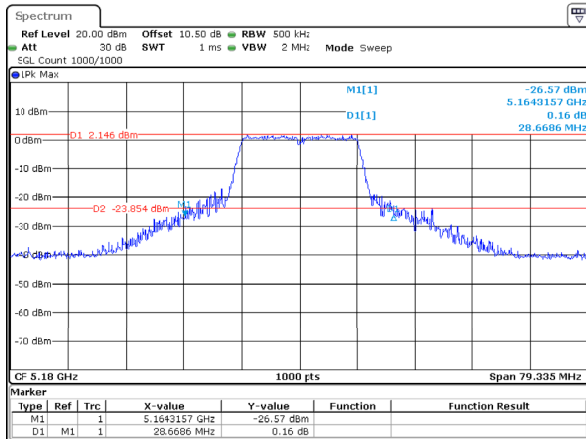
Mode	Test Frequency (MHz)	Result (MHz)
802.11a	5180	28.669
	5200	28.184
	5240	28.105
802.11ac20	5180	26.416
	5200	26.087
	5240	29.393
802.11ac40	5190	46.647
	5230	46.446

6dB Emission Bandwidth
5725-5850MHz

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11a	5745	16.467	0.5	Pass
	5785	16.467	0.5	Pass
	5825	16.467	0.5	Pass
802.11ac20	5745	17.367	0.5	Pass
	5785	17.367	0.5	Pass
	5825	17.367	0.5	Pass
802.11ac40	5755	35.936	0.5	Pass
	5795	36.136	0.5	Pass

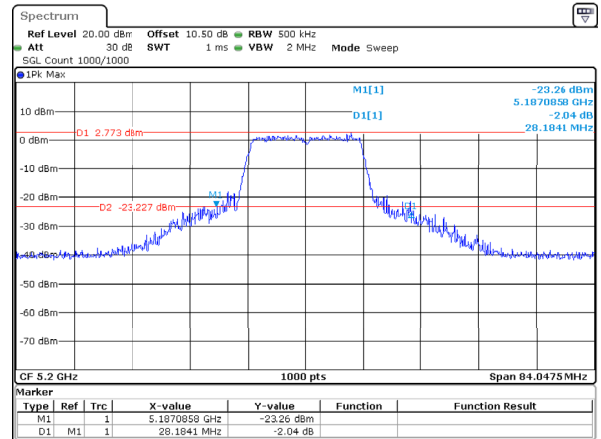
5150-5250MHz

802.11a_5180MHz 28.669MHz



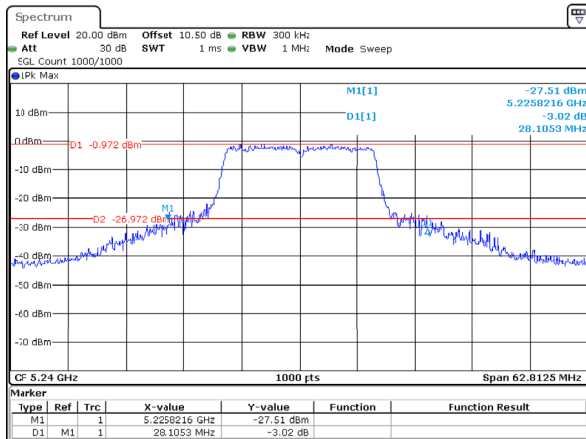
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Date: 31.OCT.2024 20:13:42

802.11a_5200MHz 28.184MHz



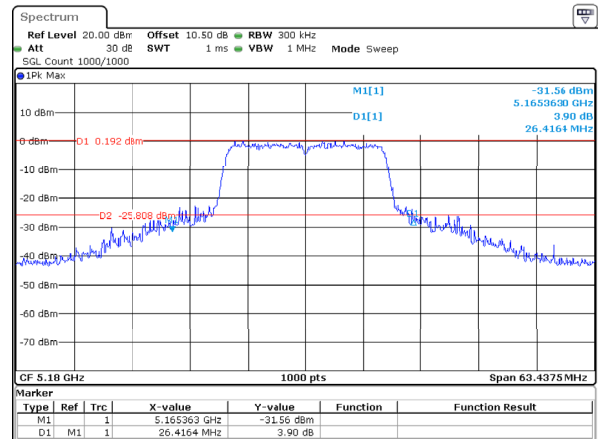
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Date: 31.OCT.2024 20:21:51

802.11a_5240MHz 28.105MHz



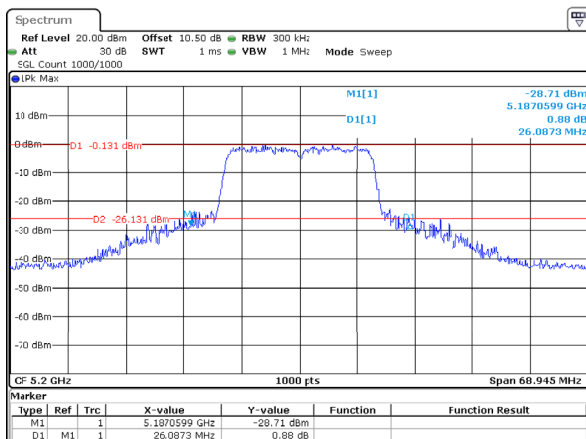
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 19:31:18

802.11ac20_5180MHz 26.416MHz



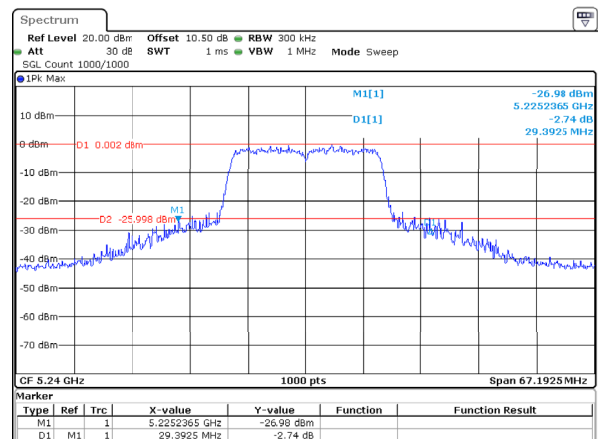
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:09:02

802.11ac20_5200MHz 26.087MHz



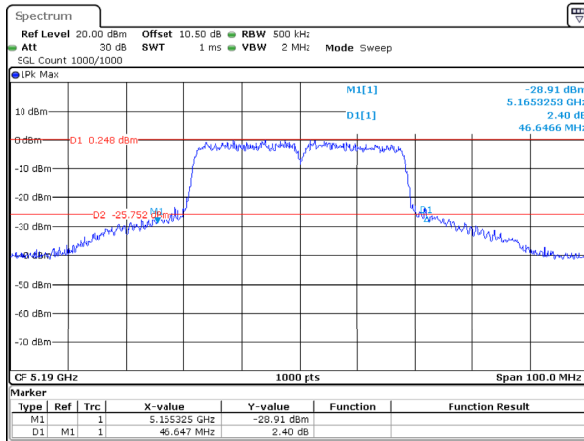
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:10:05

802.11ac20_5240MHz 29.393MHz



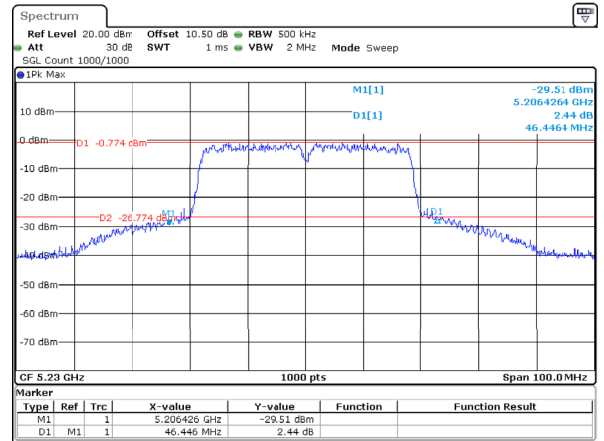
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:11:26

802.11ac40_5190MHz 46.647MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 19:38:20

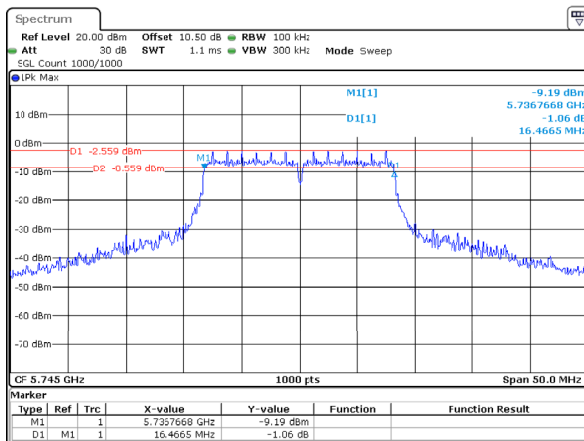
802.11ac40_5230MHz 46.446MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 19:39:58

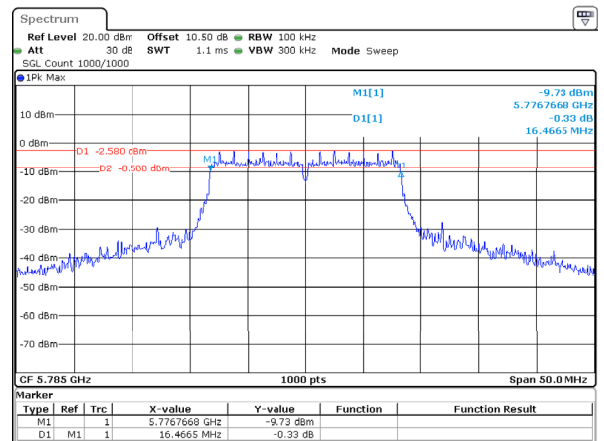
5725-5850MHz

802.11a_5745MHz 16.467MHz



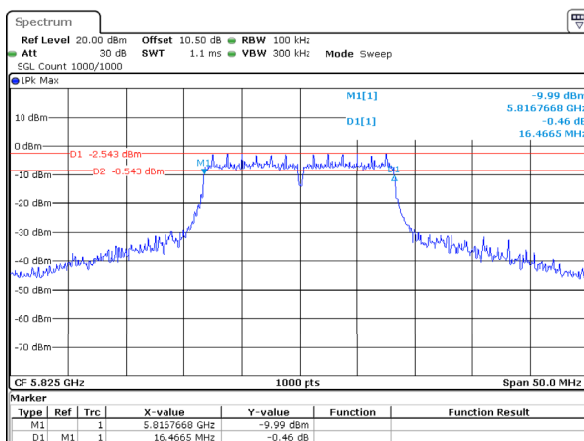
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:18:36

802.11a_5785MHz 16.467MHz



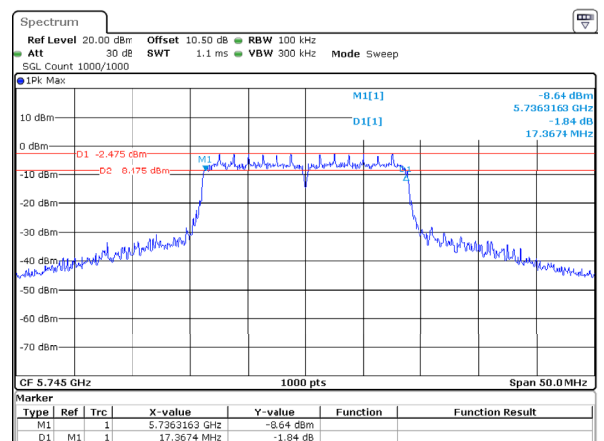
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 19:56:54

802.11a_5825MHz 16.467MHz



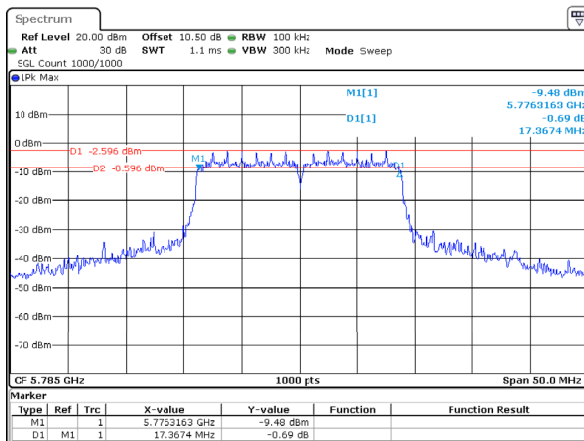
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Date: 31.OCT.2024 19:57:41

802.11ac20_5745MHz 17.367MHz



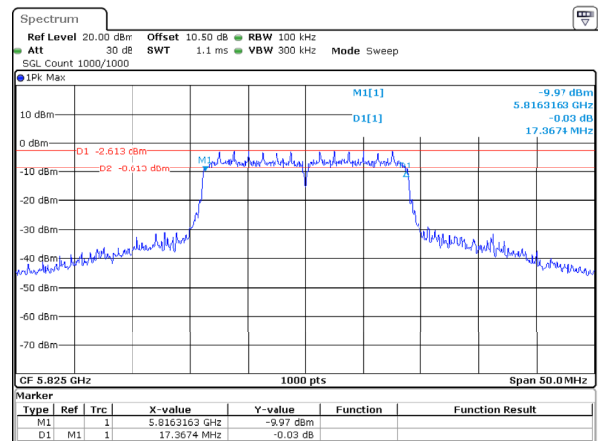
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 19:59:26

802.11ac20_5785MHz 17.367MHz



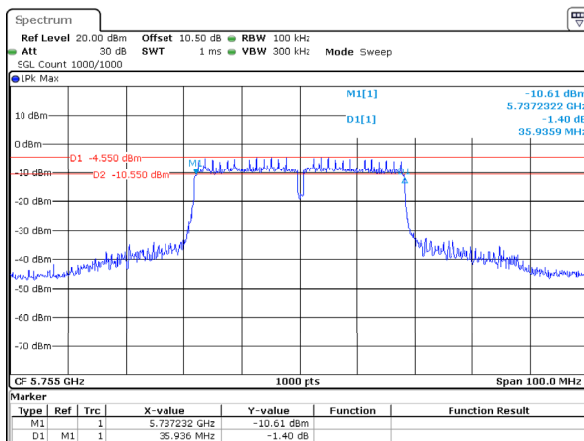
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:00:37

802.11ac20_5825MHz 17.367MHz



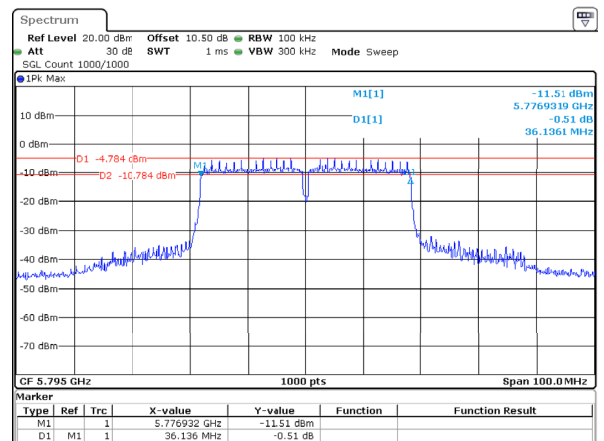
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:01:24

802.11ac40_5755MHz 35.936MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:03:23

802.11ac40_5795MHz 36.136MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 31.OCT.2024 20:03:47

Test Information:

Sample No.:	2SY1-1	Test Date:	2024/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101
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Maximum Conducted Output Power

5150-5250MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5180	8.42	24	Pass
	5200	8.38	24	Pass
	5240	8.52	24	Pass
802.11ac20	5180	8.28	24	Pass
	5200	8.41	24	Pass
	5240	8.46	24	Pass
802.11ac40	5190	8.4	24	Pass
	5230	8.5	24	Pass

5725-5850MHz

Mode	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	5745	8.97	30	Pass
	5785	8.21	30	Pass
	5825	7.68	30	Pass
802.11ac20	5745	8.87	30	Pass
	5785	8.14	30	Pass
	5825	7.69	30	Pass
802.11ac40	5755	8.46	30	Pass
	5795	7.51	30	Pass

Note:

The device supports to work as a client or an AP, and the strictest limits are selected for evaluation.

Test Information:

Sample No.:	2SY1-1	Test Date:	2024/11/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Allen Bai	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	25	Relative Humidity: (%)	45	ATM Pressure: (kPa)	101
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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	-2.56	0	-2.56	11	Pass
	5200	-2.70	0	-2.70	11	Pass
	5240	-2.14	0	-2.14	11	Pass
802.11ac20	5180	-2.79	0	-2.79	11	Pass
	5200	-3.02	0	-3.02	11	Pass
	5240	-2.72	0	-2.72	11	Pass
802.11ac40	5190	-5.63	0	-5.63	11	Pass
	5230	-5.89	0	-5.89	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	-4.69	0	-4.69	30	Pass
	5785	-5.52	0	-5.52	30	Pass
	5825	-6.07	0	-6.07	30	Pass
802.11ac20	5745	-5.10	0	-5.10	30	Pass
	5785	-5.69	0	-5.69	30	Pass
	5825	-5.96	0	-5.96	30	Pass
802.11ac40	5755	-8.35	0	-8.35	30	Pass
	5795	-9.18	0	-9.18	30	Pass

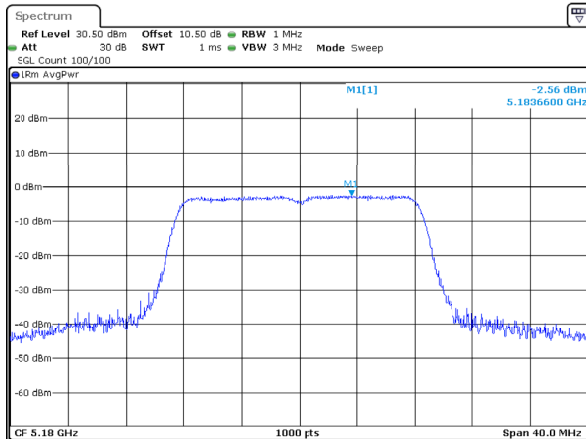
Note:

Result = Reading + Duty Cycle Factor

The device supports to work as a client or an AP, and the strictest limits are selected for evaluation.

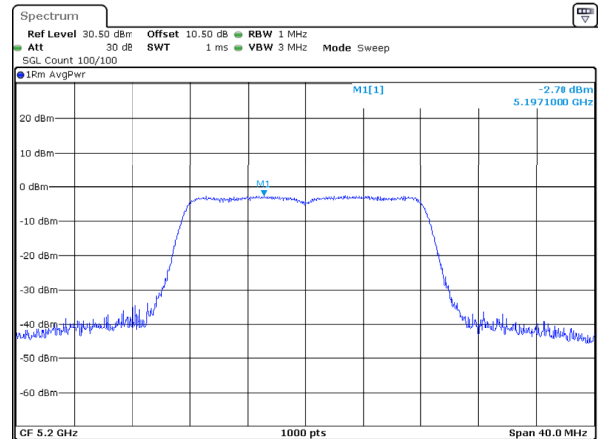
5150-5250MHz

802.11a_5180MHz



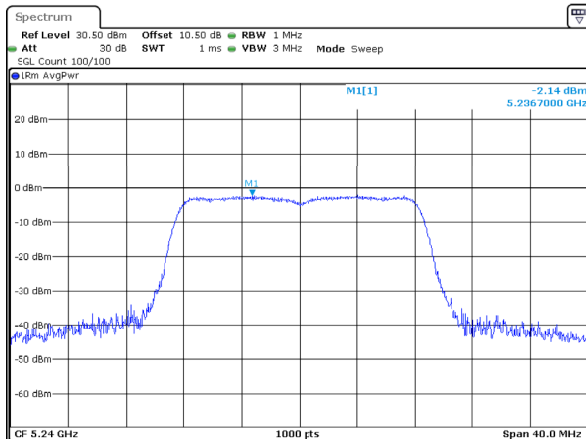
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:51:06

802.11a_5200MHz



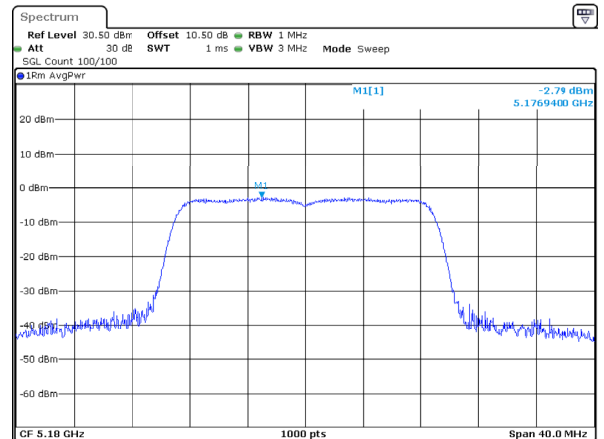
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:51:27

802.11a_5240MHz



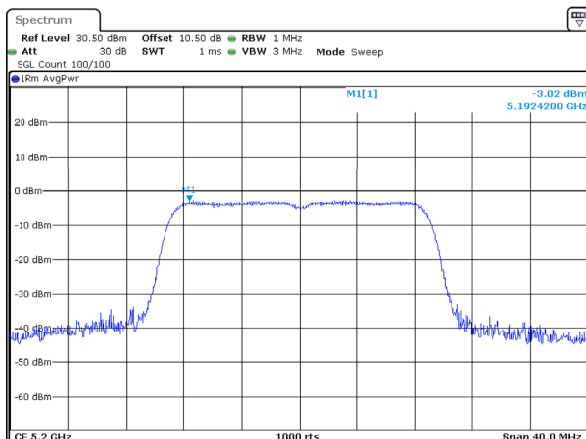
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:51:46

802.11ac20_5180MHz



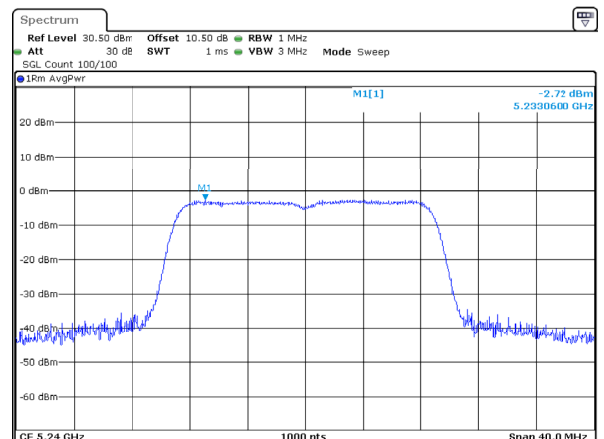
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:52:06

802.11ac20_5200MHz



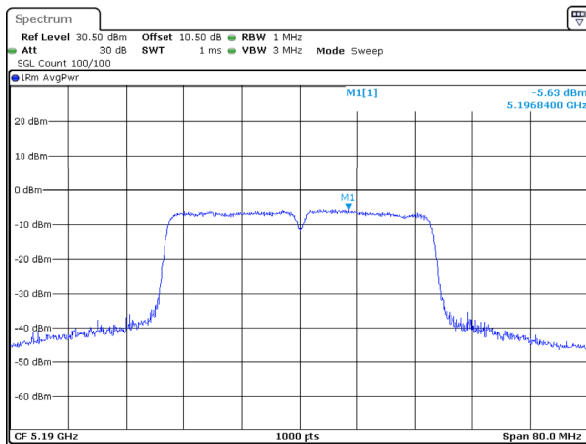
ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:54:15

802.11ac20_5240MHz



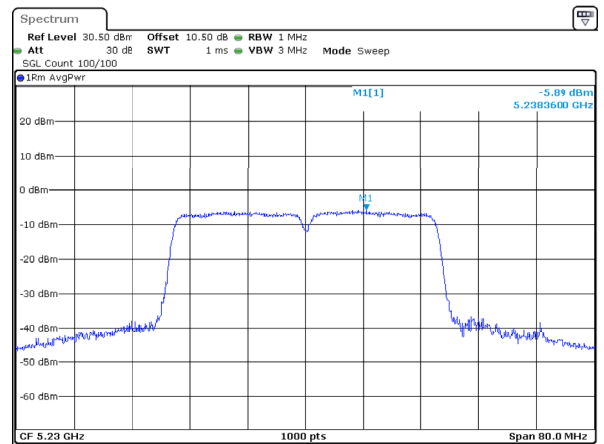
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Date: 10.NOV.2024 22:54:39

802.11ac40_5190MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:56:45

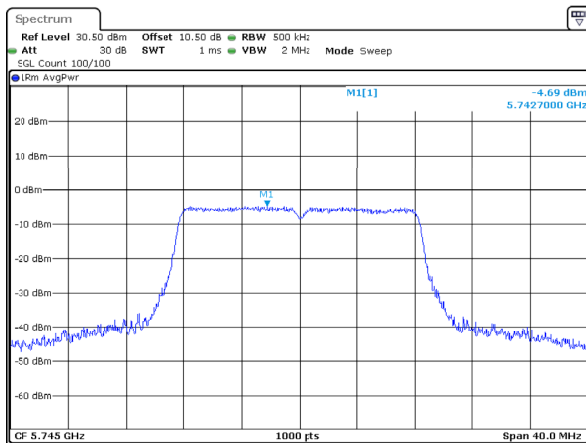
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ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 22:57:20

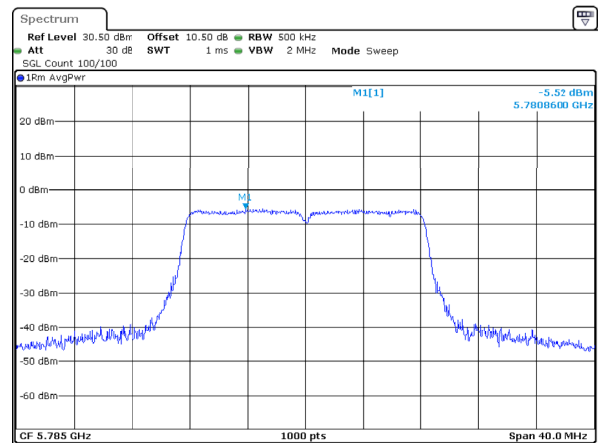
5725-5850MHz

802.11a_5745MHz



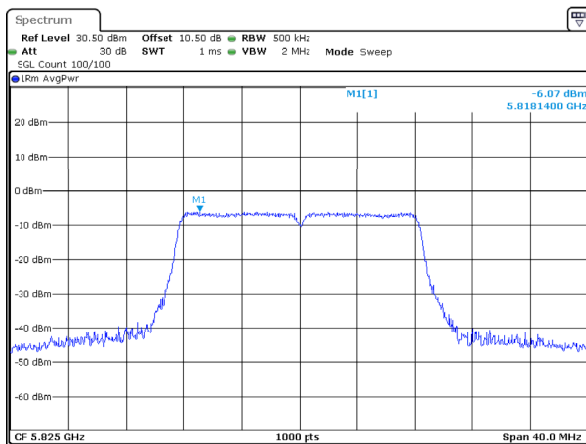
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Date: 10.NOV.2024 22:58:25

802.11a_5785MHz



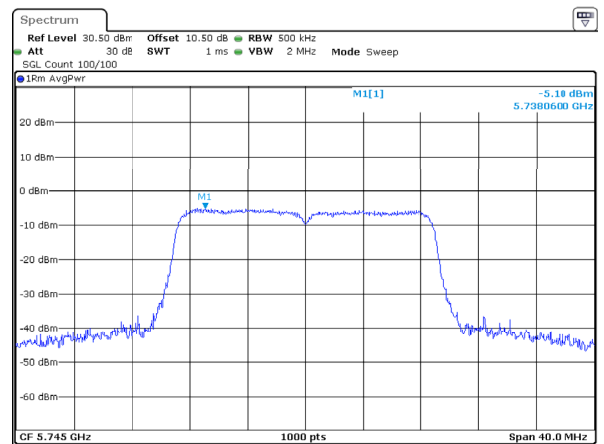
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Date: 10.NOV.2024 22:59:05

802.11a_5825MHz



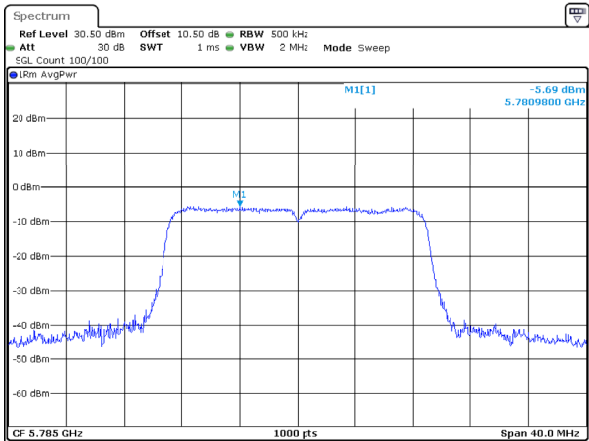
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Date: 10.NOV.2024 22:59:25

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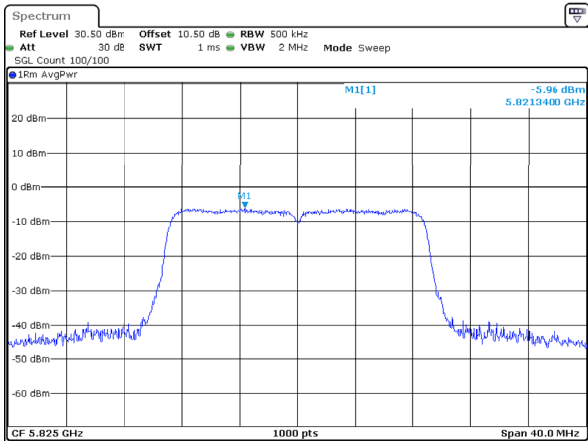
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802.11ac20_5785MHz



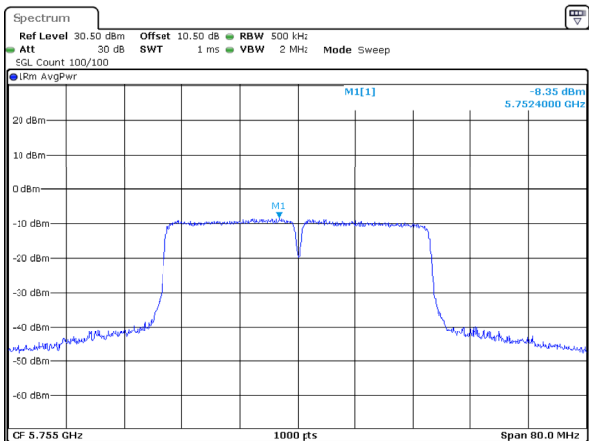
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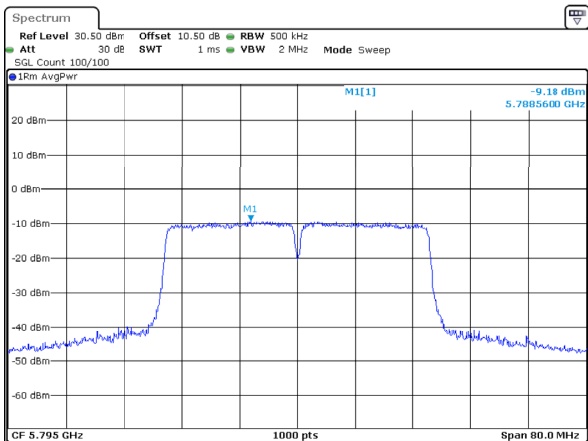
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802.11ac40_5755MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 23:07:03

802.11ac40_5795MHz



ProjectNo.:2401Y99438E-RF Tester:Allen Bai
Date: 10.NOV.2024 23:11:36