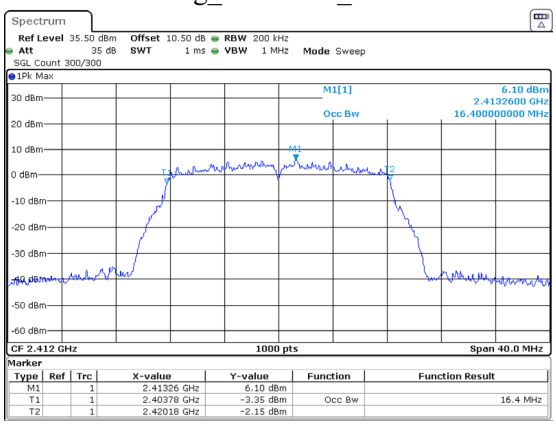
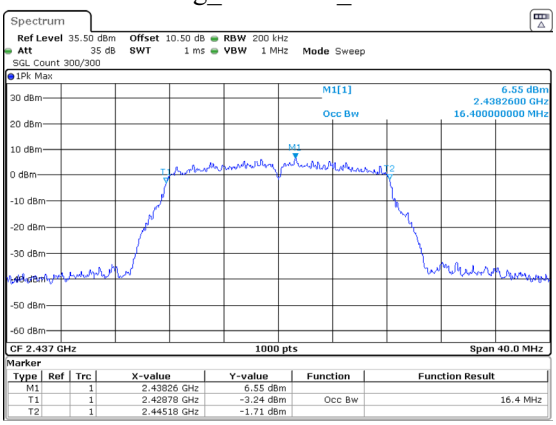
802.11g_2412MHz_Chain 0



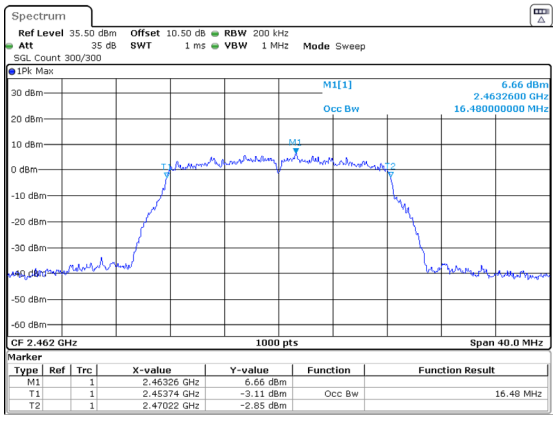
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:09:34

802.11g_2437MHz_Chain 0



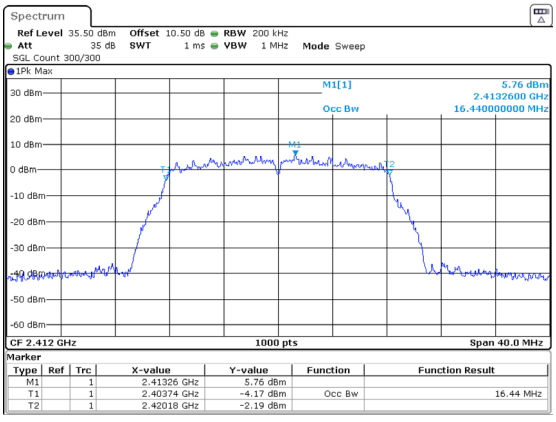
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:17:39

802.11g_2462MHz_Chain 0



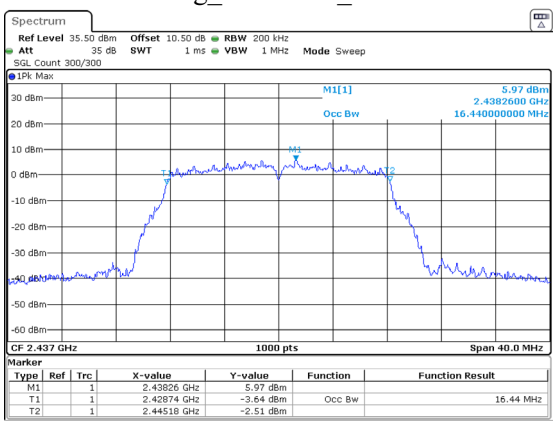
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:20:13

802.11g_2412MHz_Chain 1



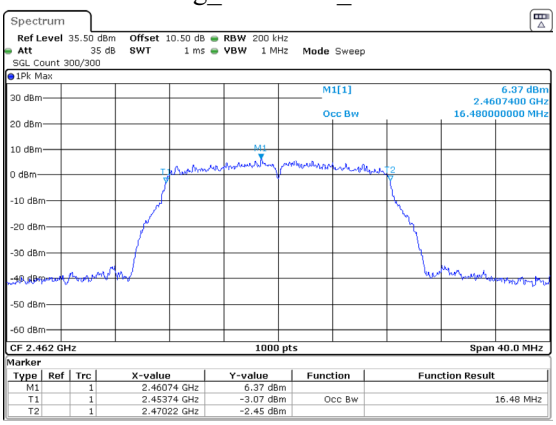
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:54:50

802.11g_2437MHz_Chain 1



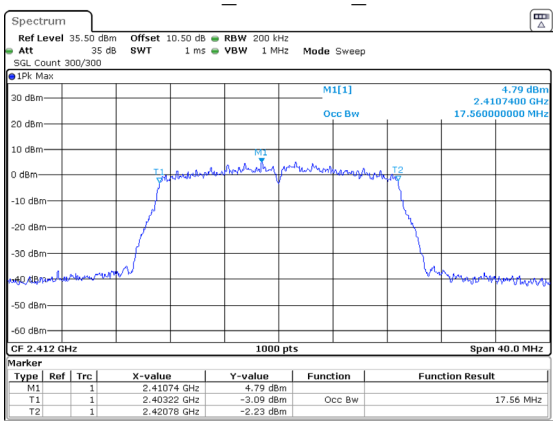
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:57:36

802.11g_2462MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:00:25

802.11n20_2412MHz_Chain 0



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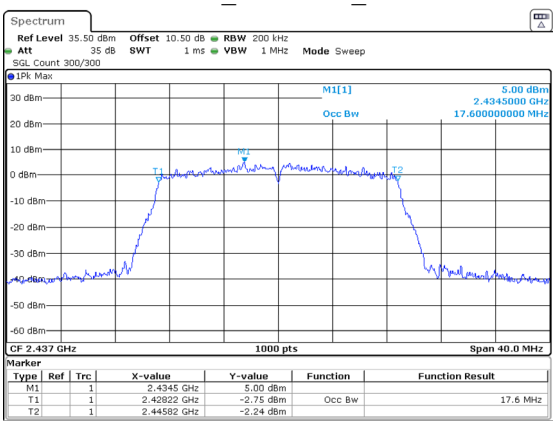
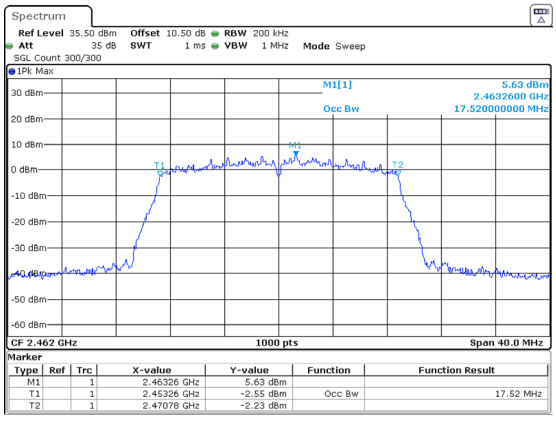
Date: 28.DEC.2024 19:23:18

802.11n20_2437MHz_Chain 0



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:26:08

802.11n20_2462MHz_Chain 0



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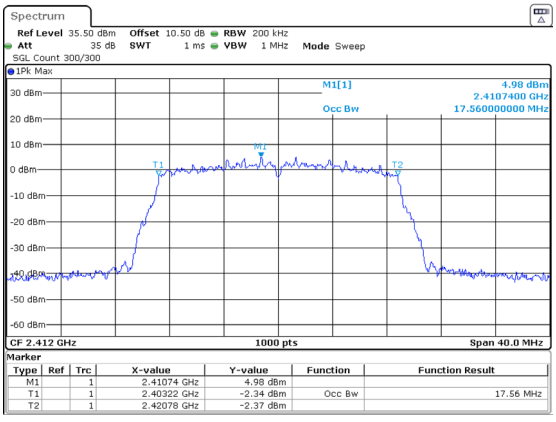
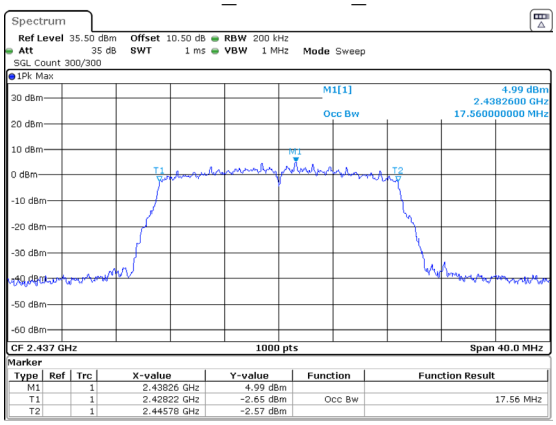
Date: 28.DEC.2024 19:34:09

802.11n20_2412MHz_Chain 1



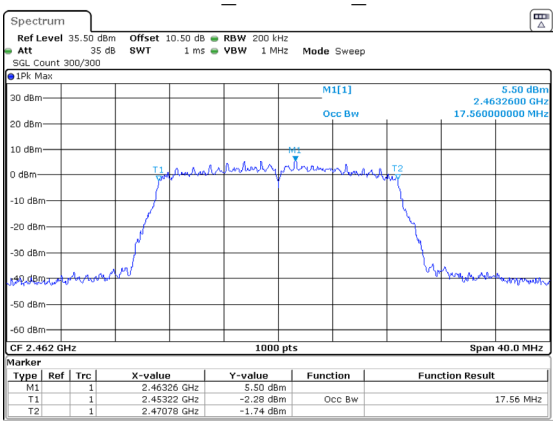
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:07:38

802.11n20_2437MHz_Chain 1



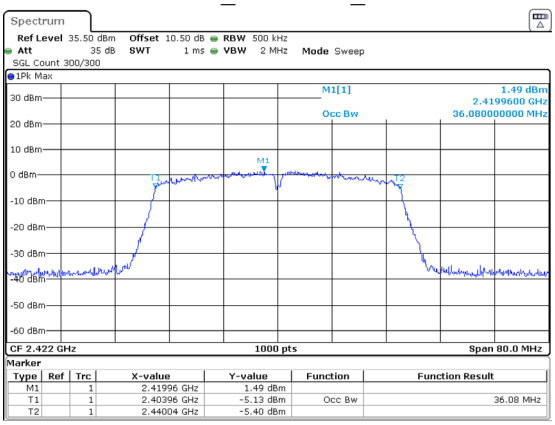
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:10:51

802.11n20_2462MHz_Chain 1



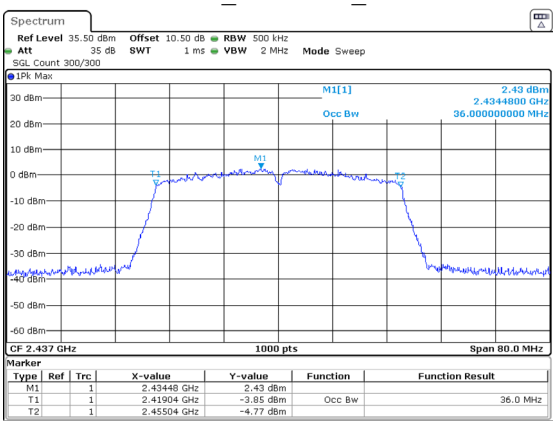
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:13:32

802.11n40_2422MHz_Chain 0



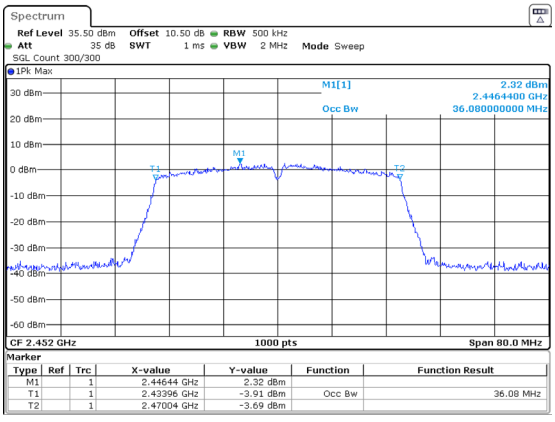
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:36:25

802.11n40_2437MHz_Chain 0



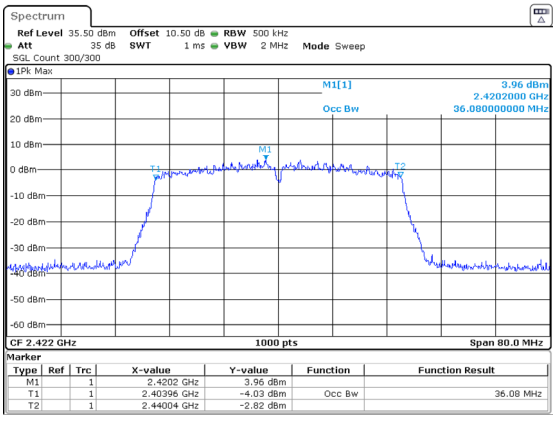
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:39:16

802.11n40_2452MHz_Chain 0



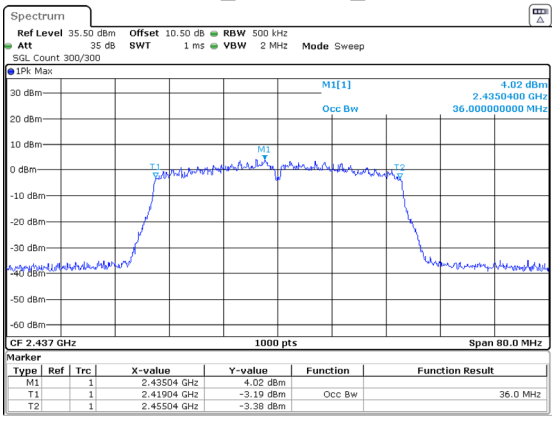
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:41:47

802.11n40_2422MHz_Chain 1



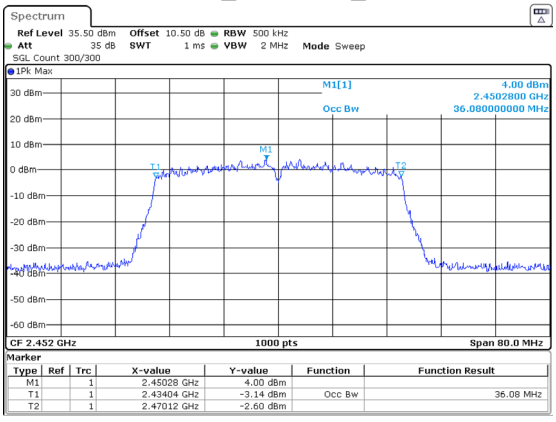
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:16:07

802.11n40_2437MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:19:08

802.11n40_2452MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:21:56

Maximum Conducted Output Power

Test Information:

Sample No.:	2VID-7	**Test Date:**	2024/12/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Rainbow Zhu	**Test Result:**	Pass

Environmental Conditions:

Temperature: (°C):	25.7	**Relative Humidity: (%)**	47	**ATM Pressure: (kPa)**	101.7

Test Data:

Mode	Antenna	Test Frequency (MHz)	Peak Output Power(dBm)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11b	Chain 0	2412	18.82	15.84	30	Pass
		2437	19.62	16.63	30	Pass
		2462	19.48	16.48	30	Pass
	Chain 1	2412	18.73	15.70	30	Pass
		2437	19.03	16.06	30	Pass
		2462	19.33	16.35	30	Pass
802.11g	Chain 0	2412	22.56	15.35	30	Pass
		2437	22.97	15.70	30	Pass
		2462	23.04	15.75	30	Pass
	Chain 1	2412	22.60	15.32	30	Pass
		2437	22.46	15.18	30	Pass
		2462	23.04	15.78	30	Pass
802.11n20	Chain 0	2412	21.56	13.98	30	Pass
		2437	22.06	14.46	30	Pass
		2462	22.05	14.51	30	Pass
	Chain 1	2412	21.90	14.26	30	Pass
		2437	21.74	14.01	30	Pass
		2462	22.46	14.66	30	Pass
	Chain 0+Chain 1	2412	24.74	17.13	30	Pass
		2437	24.91	17.25	30	Pass
		2462	**25.27**	17.60	30	Pass
802.11n40	Chain 0	2422	18.29	10.82	30	Pass
		2437	18.97	11.42	30	Pass
		2452	18.98	11.47	30	Pass
	Chain 1	2422	18.60	10.83	30	Pass
		2437	18.67	10.85	30	Pass
		2452	18.79	10.84	30	Pass
	Chain 0+Chain 1	2422	21.46	13.84	30	Pass
		2437	21.83	14.15	30	Pass
		2452	21.90	14.18	30	Pass

Power Spectral Density

Test Information:

Sample No.:	2VID-7	**Test Date:**	2024/12/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Rainbow Zhu	**Test Result:**	Pass

Environmental Conditions:

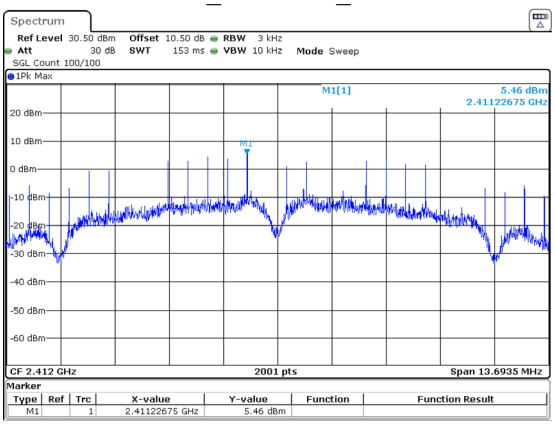
Temperature: (°C):	25.7	**Relative Humidity: (%)**	47	**ATM Pressure: (kPa)**	101.7

Test Data:

Mode	Antenna	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	Chain 0	2412	5.46	8	Pass
		2437	**6.37**	8	Pass
		2462	6.16	8	Pass
	Chain 1	2412	5.43	8	Pass
		2437	5.70	8	Pass
		2462	6.00	8	Pass
802.11g	Chain 0	2412	-9.78	8	Pass
		2437	-9.81	8	Pass
		2462	-10.28	8	Pass
	Chain 1	2412	-9.83	8	Pass
		2437	-9.58	8	Pass
		2462	-9.47	8	Pass
802.11n20	Chain 0	2412	-10.75	8	Pass
		2437	-10.93	8	Pass
		2462	-9.98	8	Pass
	Chain 1	2412	-8.63	8	Pass
		2437	-10.81	8	Pass
		2462	-10.08	8	Pass
	Chain 0+Chain 1	2412	-6.55	6.63	Pass
		2437	-7.86	6.63	Pass
		2462	-7.02	6.63	Pass
802.11n40	Chain 0	2422	-17.12	8	Pass
		2437	-16.97	8	Pass
		2452	-16.45	8	Pass
	Chain 1	2422	-16.40	8	Pass
		2437	-17.04	8	Pass
		2452	-17.16	8	Pass
	Chain 0+Chain 1	2422	-13.73	6.63	Pass
		2437	-13.99	6.63	Pass
		2452	-13.78	6.63	Pass

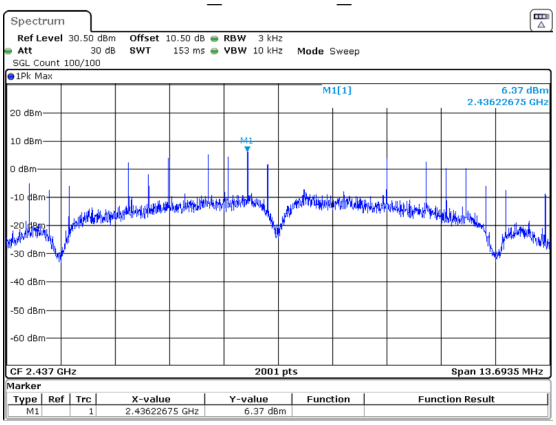
2412~2462

802.11b_2412MHz_Chain 0



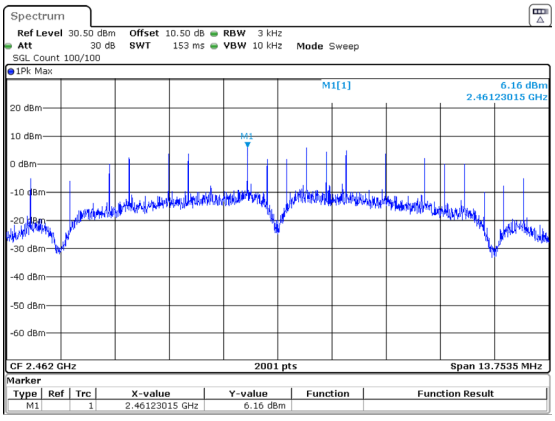
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:02:58

802.11b_2437MHz_Chain 0



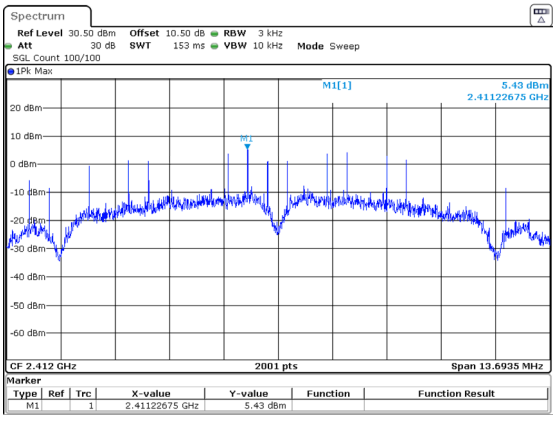
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:05:17

802.11b_2462MHz_Chain 0



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:07:55

802.11b_2412MHz_Chain 1



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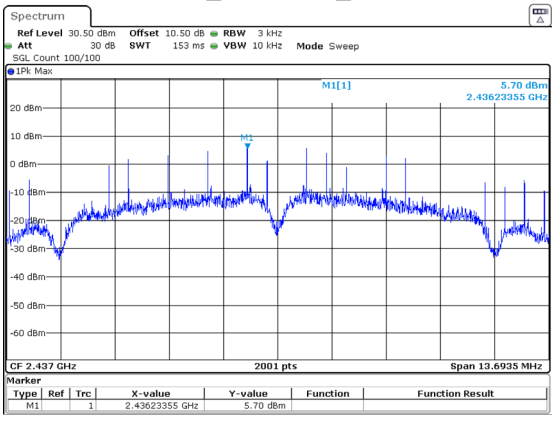
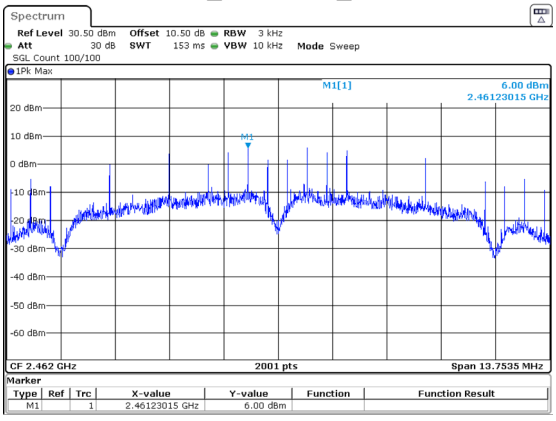
Date: 28.DEC.2024 19:47:11

802.11b_2437MHz_Chain 1



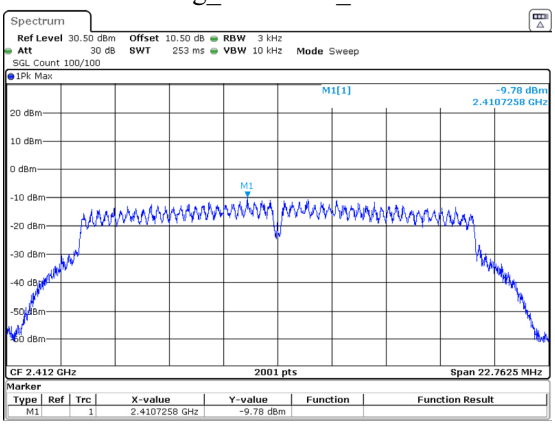
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:50:17

802.11b_2462MHz_Chain 1



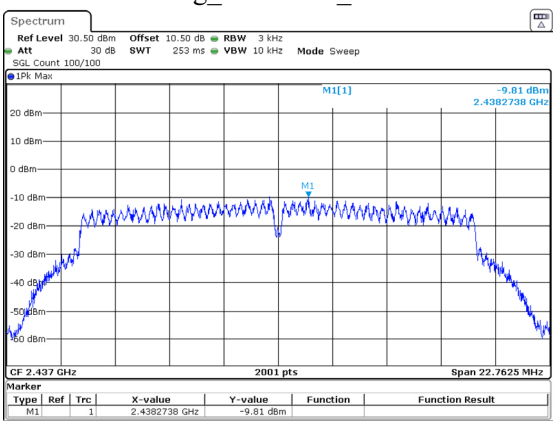
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:52:55

802.11g_2412MHz_Chain 0



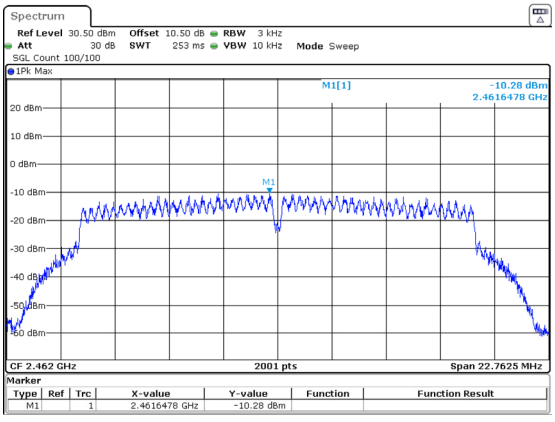
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:10:53

802.11g_2437MHz_Chain 0



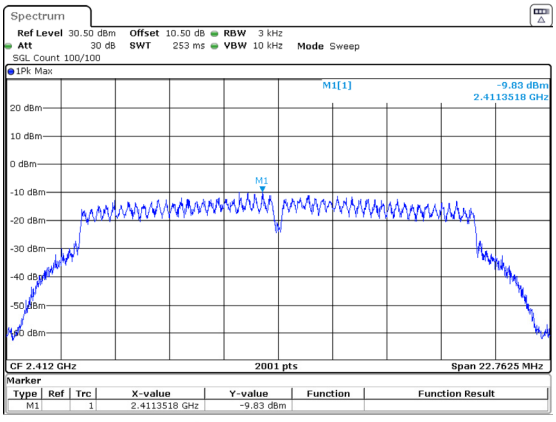
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:18:36

802.11g_2462MHz_Chain 0



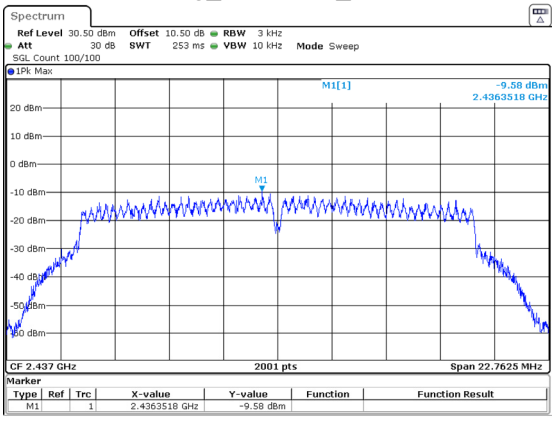
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:21:32

802.11g_2412MHz_Chain 1



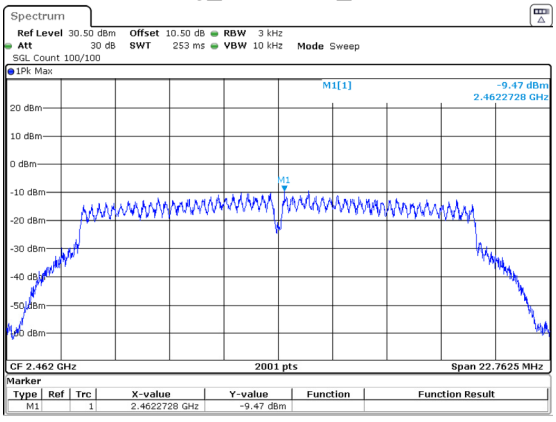
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:56:09

802.11g_2437MHz_Chain 1



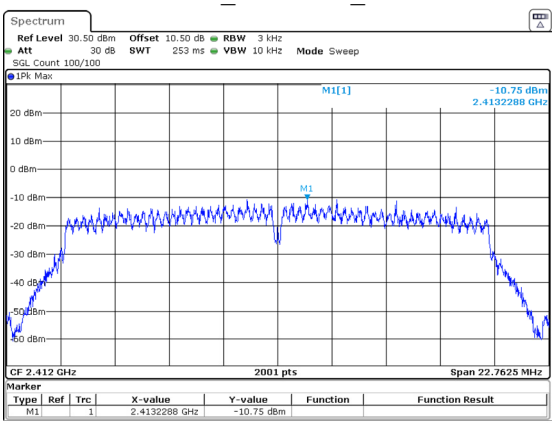
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:58:32

802.11g_2462MHz_Chain 1



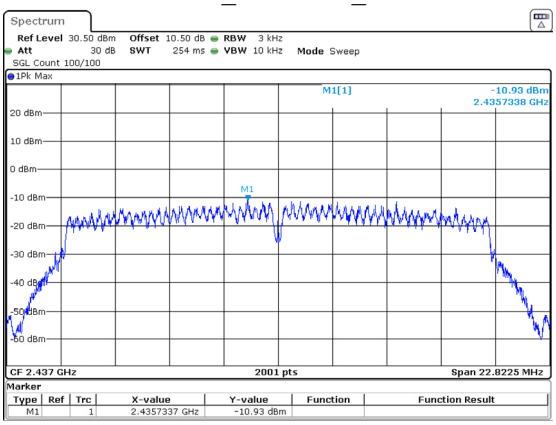
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:02:06

802.11n20_2412MHz_Chain 0



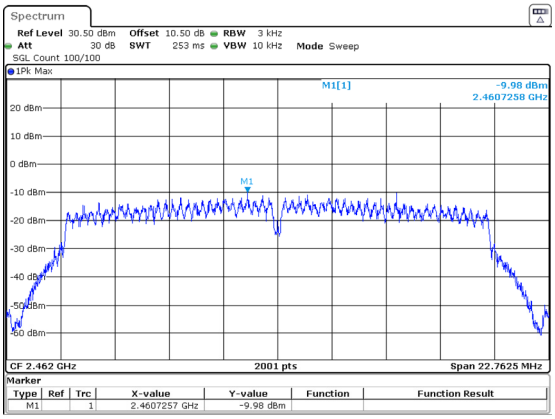
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:24:39

802.11n20_2437MHz_Chain 0



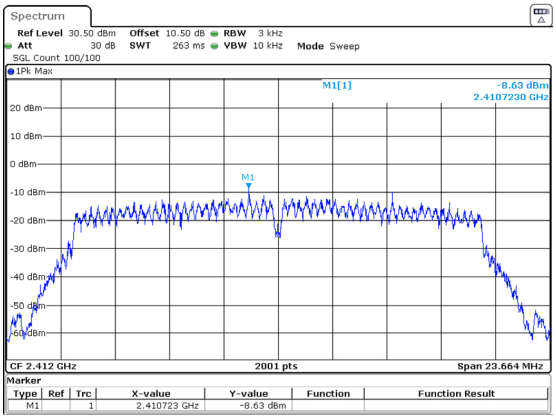
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:27:08

802.11n20_2462MHz_Chain 0



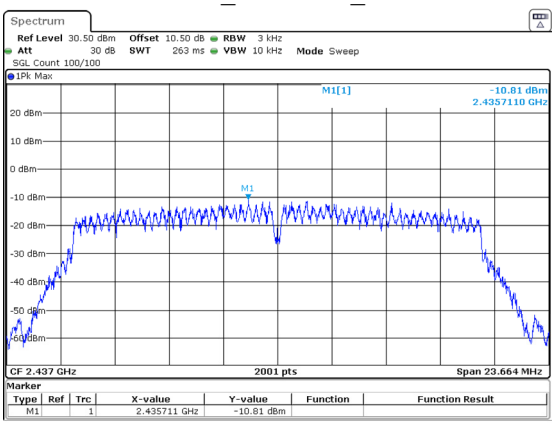
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:35:31

802.11n20_2412MHz_Chain 1



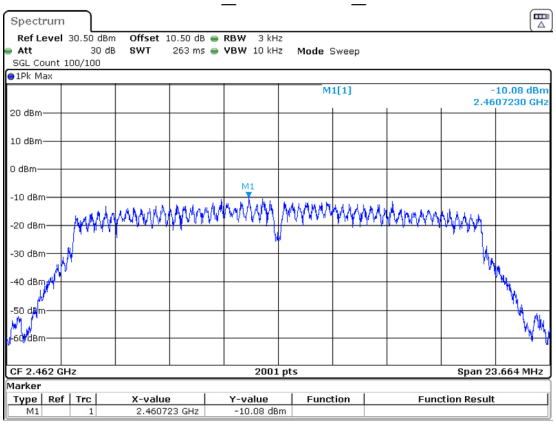
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:09:00

802.11n20_2437MHz_Chain 1



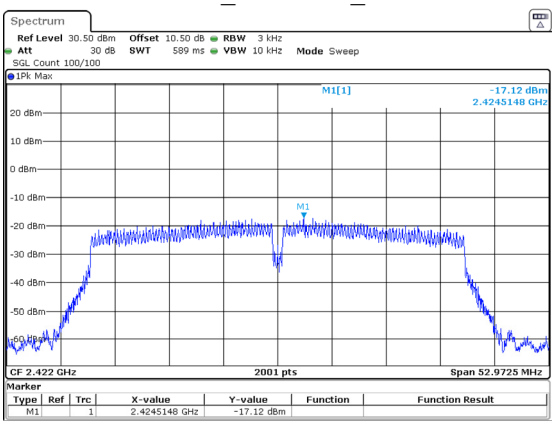
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:11:52

802.11n20_2462MHz_Chain 1



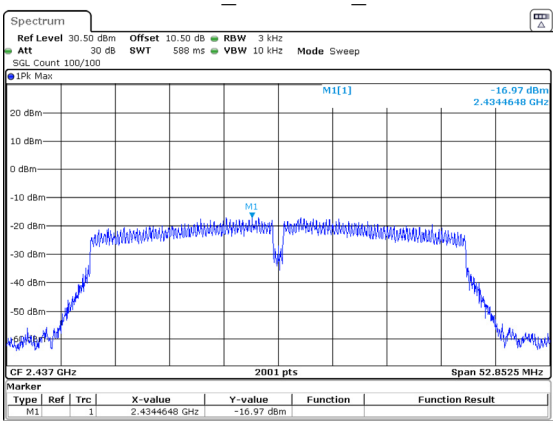
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:15:06

802.11n40_2422MHz_Chain 0



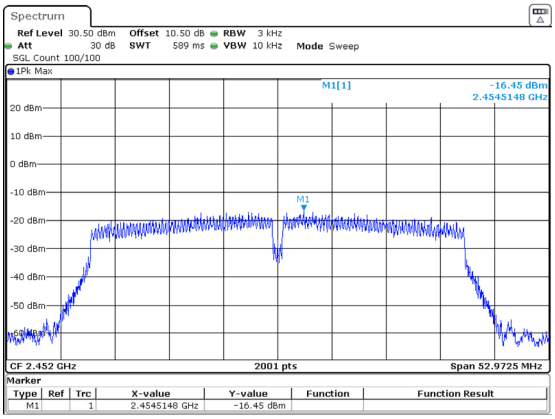
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:38:28

802.11n40_2437MHz_Chain 0



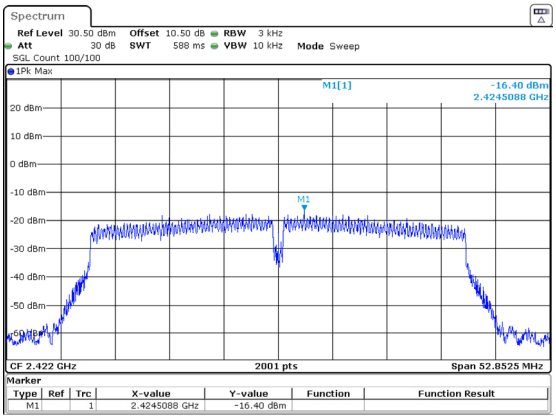
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:41:00

802.11n40_2452MHz_Chain 0



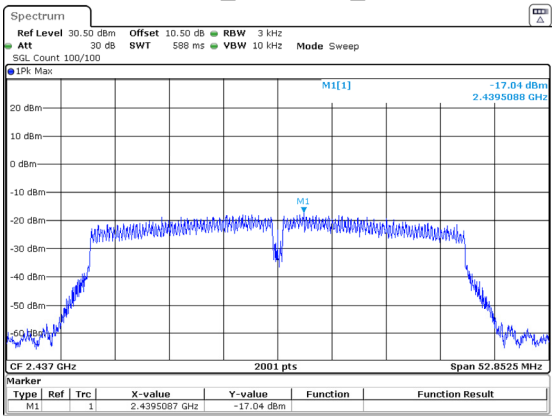
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:43:52

802.11n40_2422MHz_Chain 1



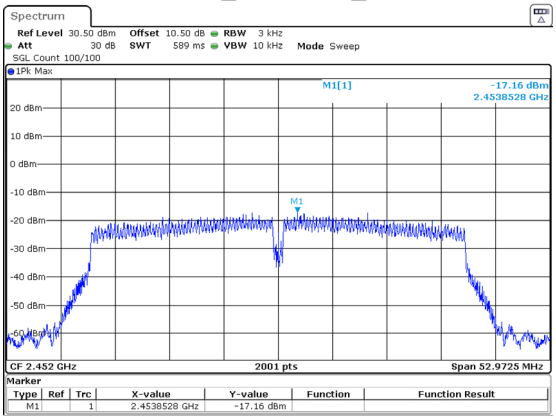
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:18:13

802.11n40_2437MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:20:52

802.11n40_2452MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:24:06

100 kHz Bandwidth of Frequency Band Edge

Test Information:

Sample No.:	2VID-7	**Test Date:**	2024/12/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Rainbow Zhu	**Test Result:**	Pass

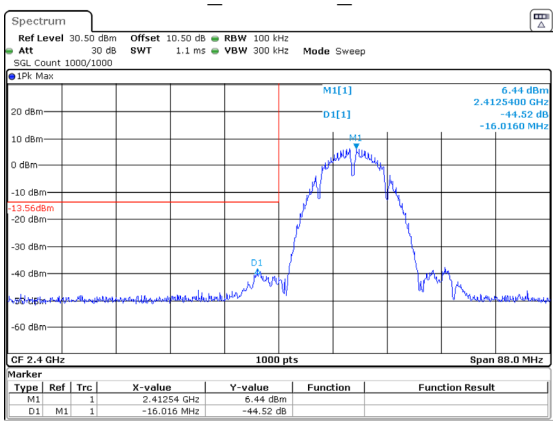
Environmental Conditions:

Temperature: (°C):	25.7	**Relative Humidity: (%)**	47	**ATM Pressure: (kPa)**	101.7

Test Data:

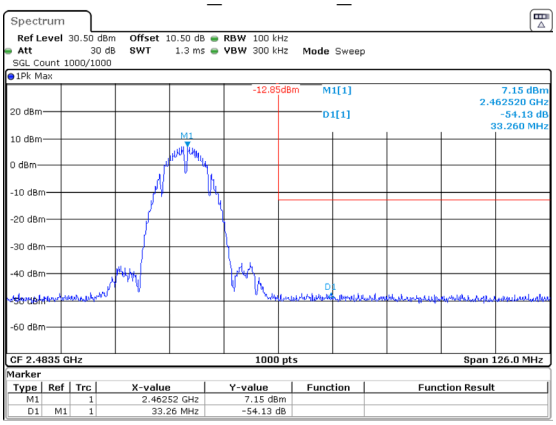
2412~2462

802.11b_2412MHz_Chain 0



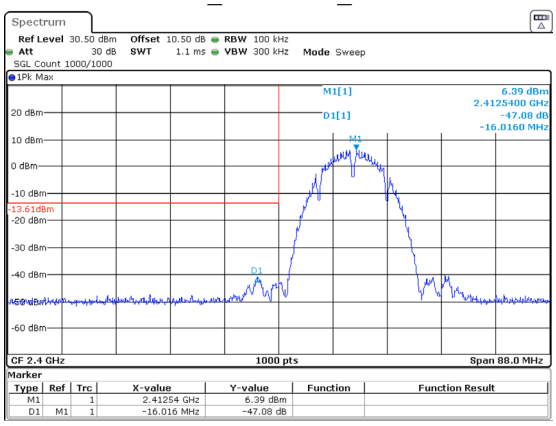
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:02:28

802.11b_2462MHz_Chain 0



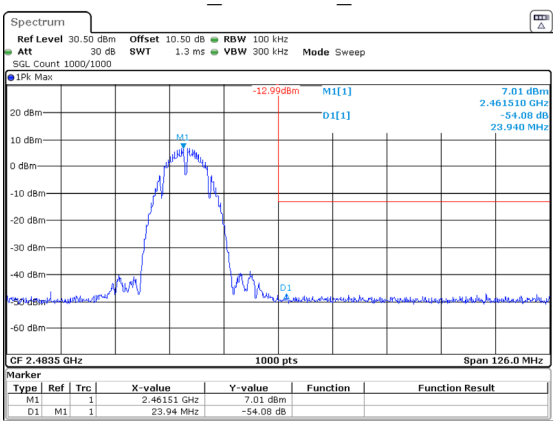
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:07:25

802.11b_2412MHz_Chain 1



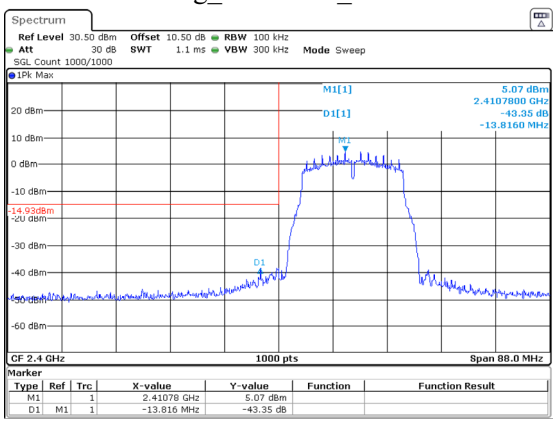
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:46:41

802.11b_2462MHz_Chain 1



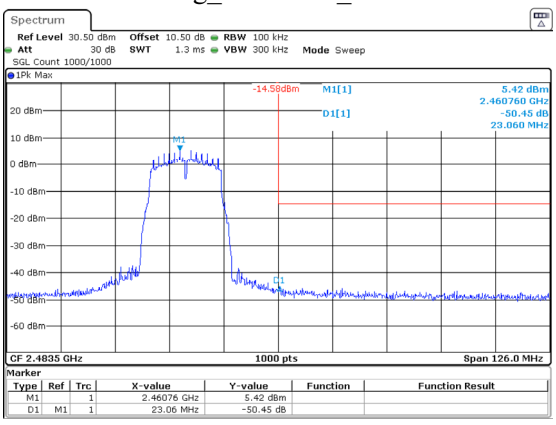
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:52:25

802.11g_2412MHz_Chain 0



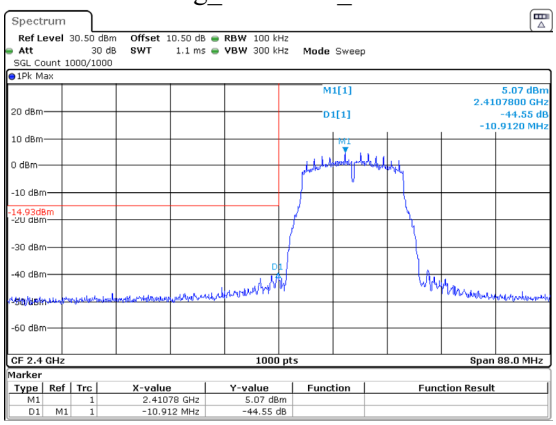
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:10:08

802.11g_2462MHz_Chain 0



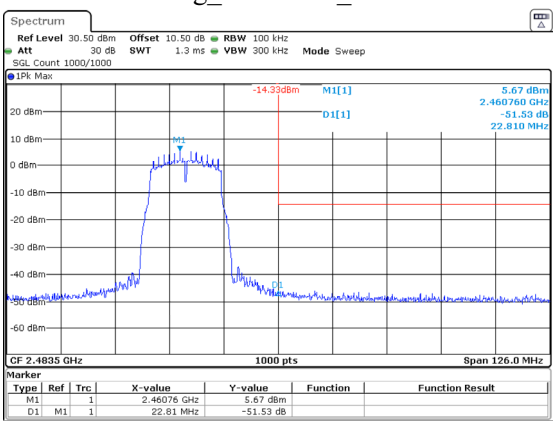
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:20:48

802.11g_2412MHz_Chain 1



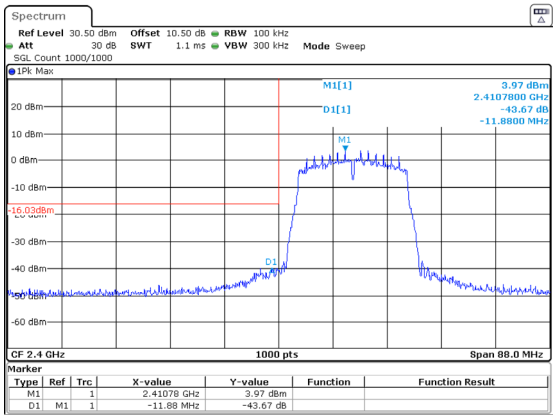
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:55:25

802.11g_2462MHz_Chain 1



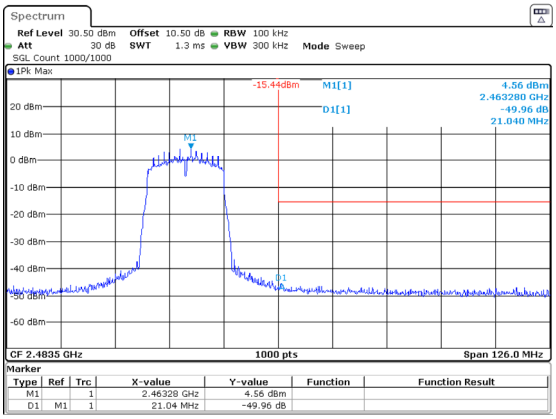
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:01:22

802.11n20_2412MHz_Chain 0



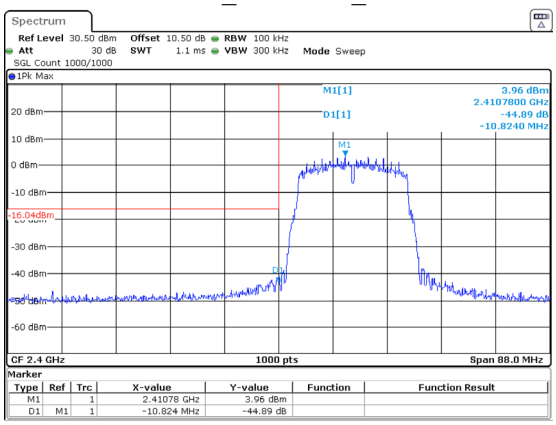
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:23:54

802.11n20_2462MHz_Chain 0



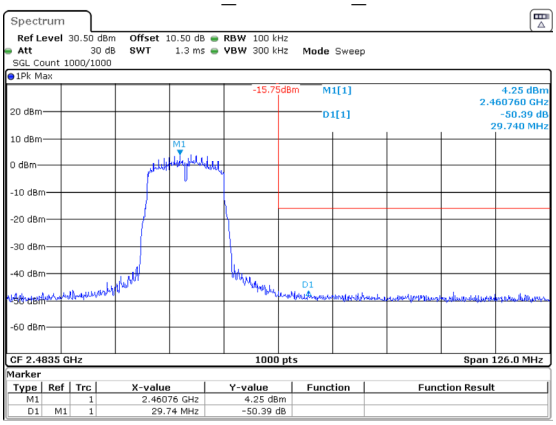
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:34:47

802.11n20_2412MHz_Chain 1



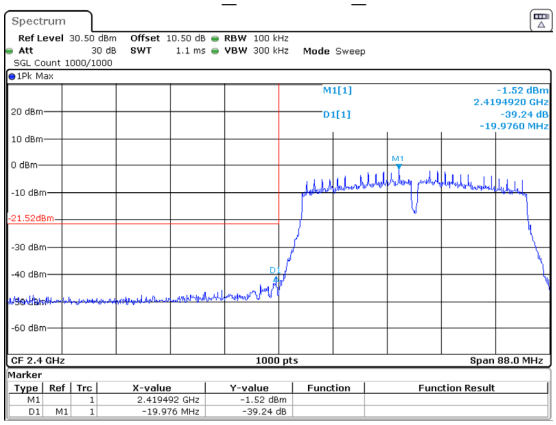
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:08:14

802.11n20_2462MHz_Chain 1



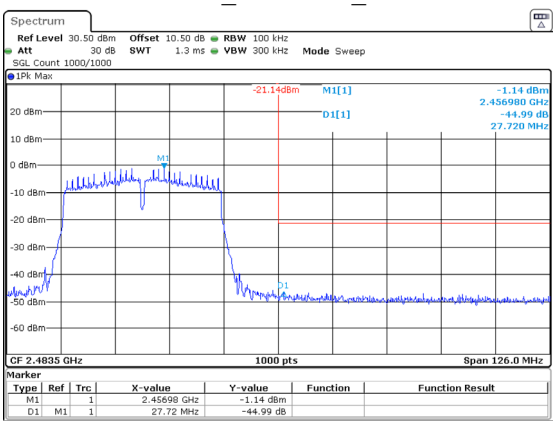
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:14:20

802.11n40_2422MHz_Chain 0



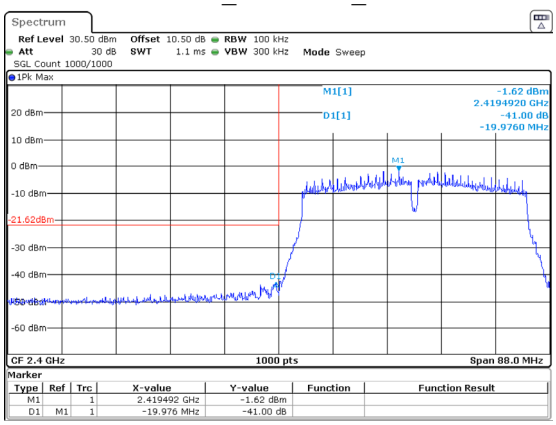
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:36:57

802.11n40_2452MHz_Chain 0



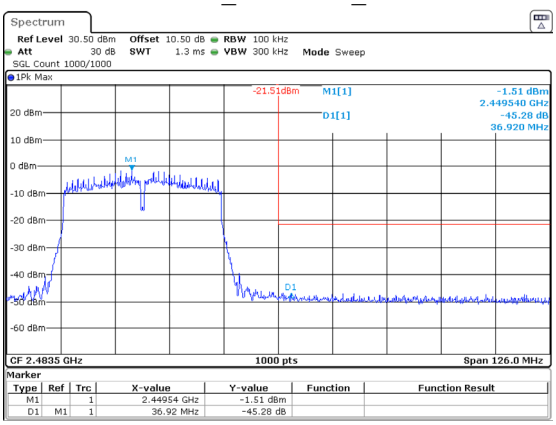
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 19:42:21

802.11n40_2422MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:16:42

802.11n40_2452MHz_Chain 1



ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 20:22:35

Duty Cycle

Test Information:

Sample No.:	2VID-7	**Test Date:**	2024/12/28
Test Site:	RF	**Test Mode:**	Transmitting
Tester:	Rainbow Zhu	**Test Result:**	N/A

Environmental Conditions:

Temperature: (°C):	25.7	**Relative Humidity: (%)**	47	**ATM Pressure: (kPa)**	101.7

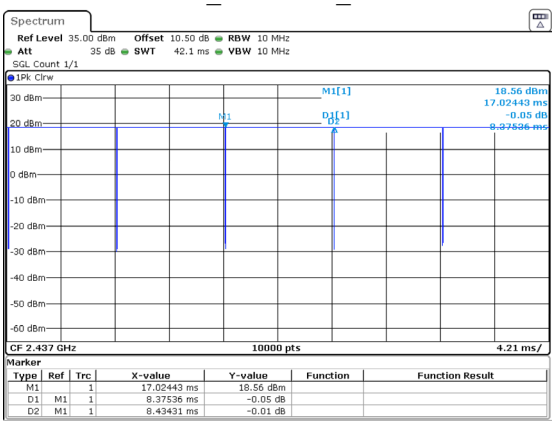
Test Data:

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11b	Chain 0	2437	**8.375**	8.434	99.30	/	/	0.010
	Chain 1	2437	8.373	8.427	99.36	/	/	0.010
802.11g	Chain 0	2437	1.388	1.443	96.19	0.17	720	1
	Chain 1	2437	1.388	1.443	96.19	0.17	720	1
802.11n20	Chain 0	2437	1.285	1.339	95.97	0.18	778	1
	Chain 1	2437	1.290	1.345	95.91	0.18	775	1
802.11n40	Chain 0	2437	0.647	0.701	92.30	0.35	1546	2
	Chain 1	2437	0.647	0.701	92.30	0.35	1546	2

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

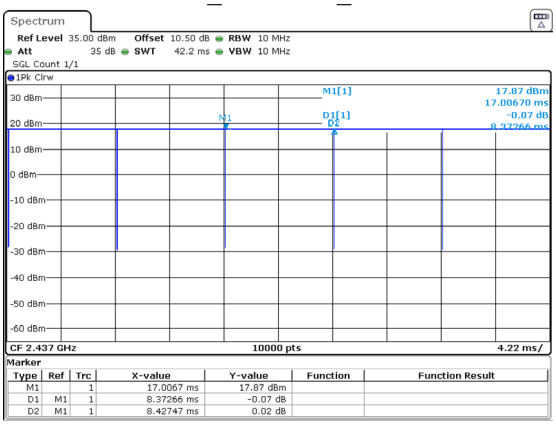
2412~2462

802.11b_2437MHz_Chain 0



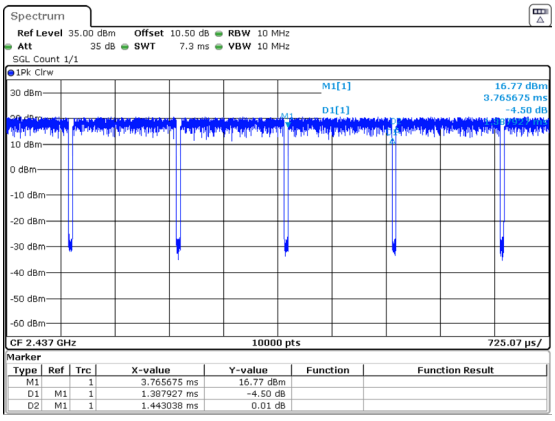
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:56:27

802.11b_2437MHz_Chain 1



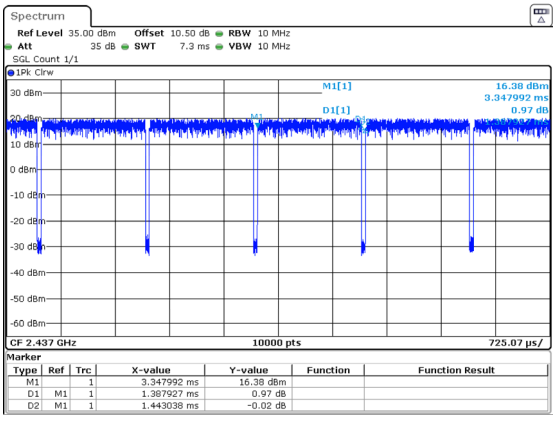
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:51:17

802.11g_2437MHz_Chain 0



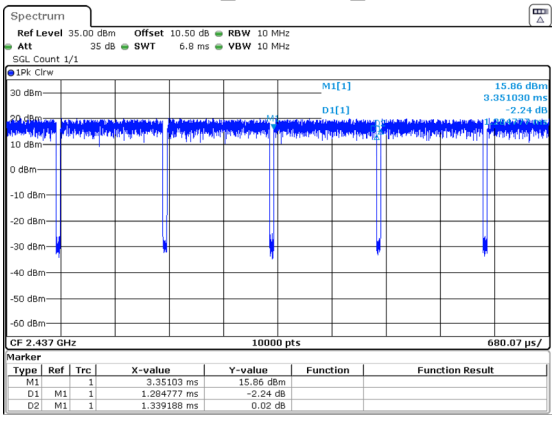
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:57:15

802.11g_2437MHz_Chain 1



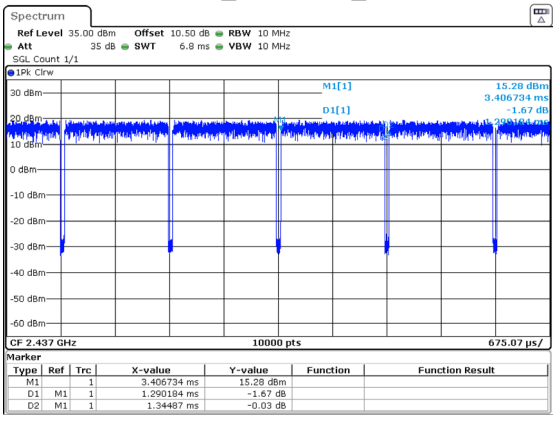
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:52:10

802.11n20_2437MHz_Chain 0



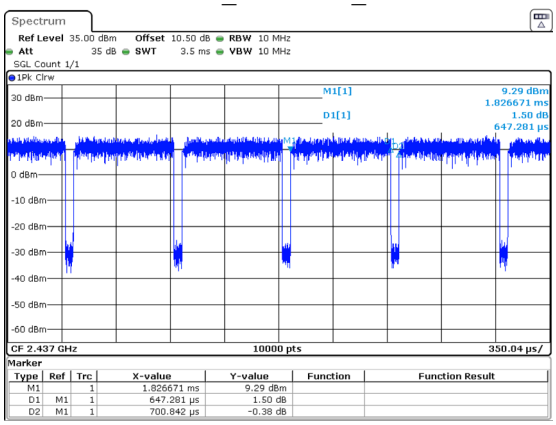
ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:59:01

802.11n20_2437MHz_Chain 1

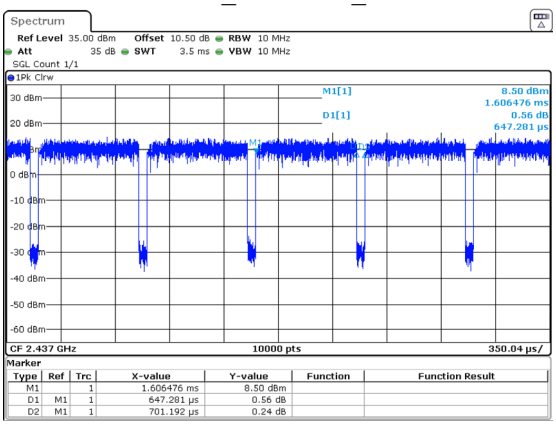


ProjectNo.:2401A63533E-RF Tester:Rainbow Zhu
Date: 28.DEC.2024 18:53:09

802.11n40_2437MHz_Chain 0



802.11n40_2437MHz_Chain 1



RF EXPOSURE EVALUATION

MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247 (i) and subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

According to KDB 447498 D04 Interim General RF Exposure Guidance

MPE-Based Exemption:
General frequency and separation-distance dependent MPE-based effective radiated power(ERP) thresholds are in Table B.1 [Table 1 of § 1.1307(b)(3)(i)(C)] to support an exemption from further evaluation from 300 kHz through 100 GHz.

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	1,920 R^2.
1.34-30	3,450 R^2/f^2.
30-300	3.83 R^2.
300-1,500	0.0128 R^2f.
1,500-100,000	19.2R^2.

Ris the minimum separation distance in meters
f = frequency in MHz

Result

Mode	Frequency (MHz)	Tune up conducted power#(dBm)	Antenna Gain#		ERP		Evaluation Distance (m)	ERP Limit (W)
			(dBi)	(dBd)	(dBm)	(W)		
BLE	2402-2480	4	2.5	0.35	4.35	0.003	0.2	0.768
BT	2402-2480	7	2.5	0.35	7.35	0.005	0.2	0.768
2.4G WIFI	2412-2472	25.5	4.37	2.22	27.72	0.592	0.2	0.768
5G WIFI	5150-5250	13.0	4.22	2.07	15.07	0.032	0.2	0.768
	5725-5850	20	4.83	2.68	22.68	0.185	0.2	0.768

Note 1: The antenna gain and Conducted output power including Tune-up Tolerance was declared and provided by the manufacturer

Note 2: BT and 2.4G WIFI can be transmitted simultaneously. 2.4G WIFI and 5G WIFI should not be sent simultaneously.

The ratio= $ERP_{\_2.4G\ Wi\text{-}Fi}$/limit+ ERP_{BT} /limit =0.777＜1

Result: Compliant

EUT PHOTOGRAPHS

Please refer to the attachment 2401A63533E-RF External photo and 2401A63533E-RF Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2401A63533E-RFA Test Setup photo.

******* END OF REPORT *******