

Test Information:

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

Environmental Conditions:

Temperature: (°C):	26.2	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.3
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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	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060302	Each time	N/A

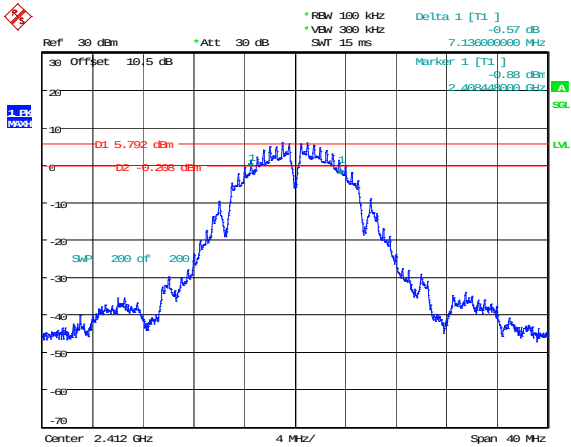
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

6dB Emission Bandwidth

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	Chain 0	2412	7.136	≥0.5	Pass
		2437	7.584	≥0.5	Pass
		2462	7.616	≥0.5	Pass
802.11g	Chain 0	2412	15.584	≥0.5	Pass
		2437	15.552	≥0.5	Pass
		2462	15.232	≥0.5	Pass
802.11n20	Chain 0	2412	16.032	≥0.5	Pass
		2437	15.424	≥0.5	Pass
		2462	15.232	≥0.5	Pass

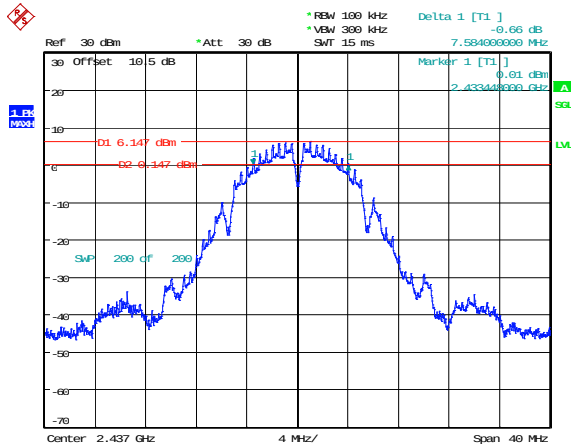
2.4G

802.11b_2412MHz 7.136MHz



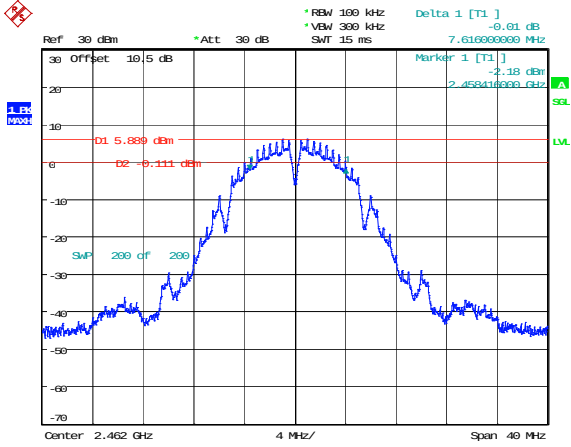
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:45:42

802.11b_2437MHz 7.584MHz



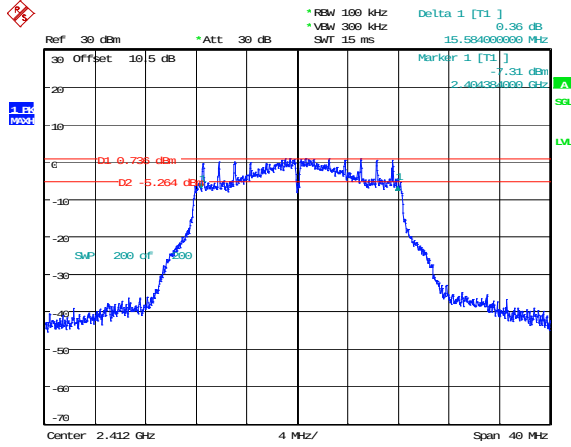
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:49:14

802.11b_2462MHz 7.616MHz



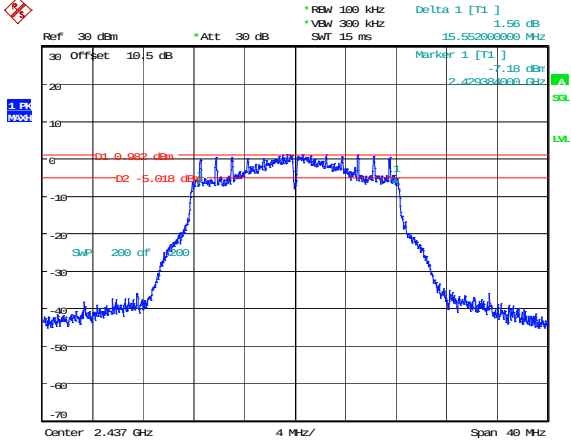
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:51:25

802.11g_2412MHz 15.584MHz



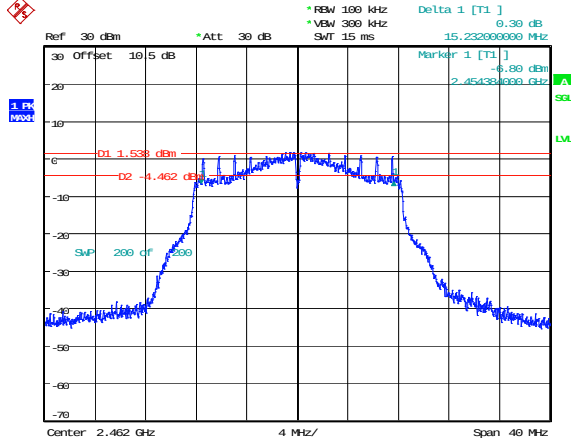
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Date: 8.NOV.2024 10:54:38

802.11g_2437MHz 15.552MHz



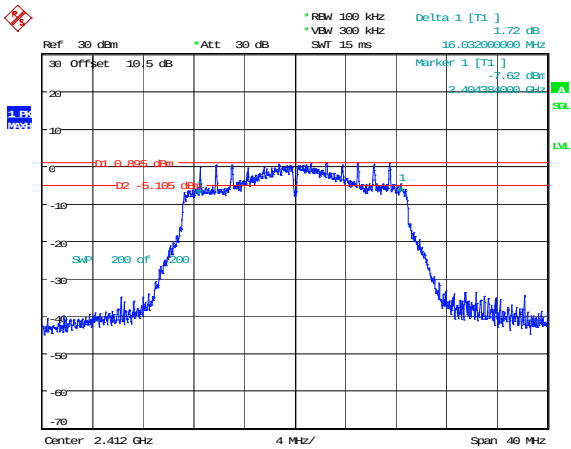
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:58:05

802.11g_2462MHz 15.232MHz



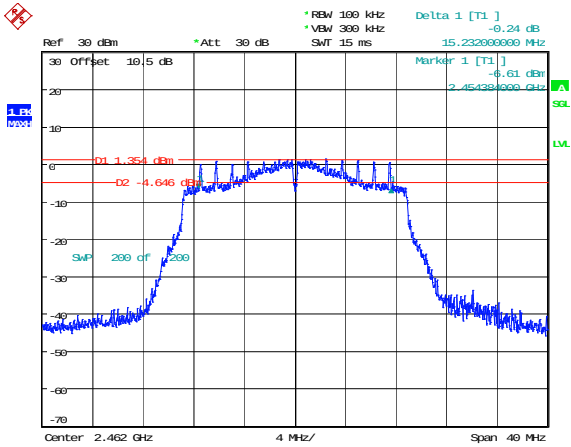
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Date: 8.NOV.2024 11:00:22

802.11n20_2412MHz 16.032MHz



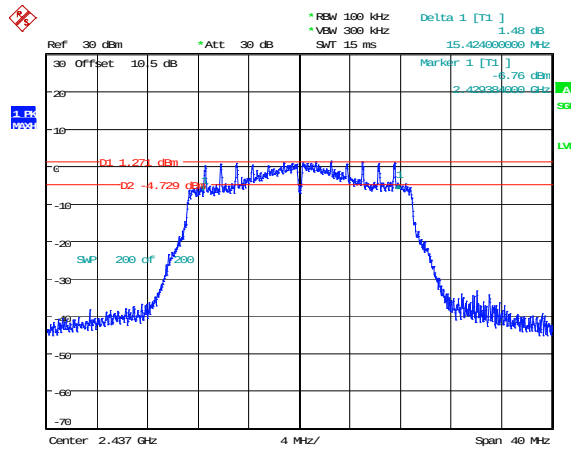
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Date: 8.NOV.2024 11:03:38

802.11n20_2462MHz 15.232MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 11:08:44

802.11n20_2437MHz 15.424MHz



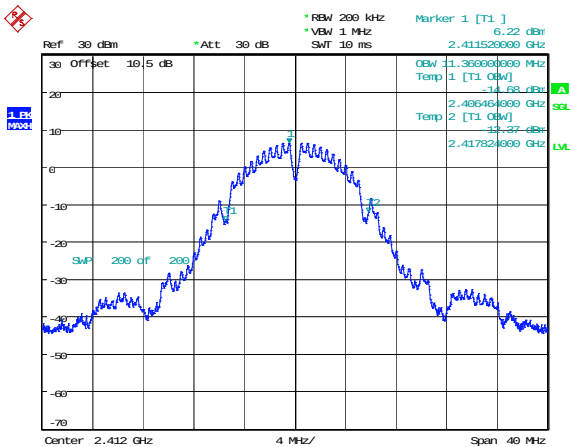
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 11:06:33

99% Occupied Bandwidth

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11b	Chain 0	2412	11.360
		2437	11.168
		2462	11.168
802.11g	Chain 0	2412	16.448
		2437	16.448
		2462	16.352
802.11n20	Chain 0	2412	17.600
		2437	17.632
		2462	17.536

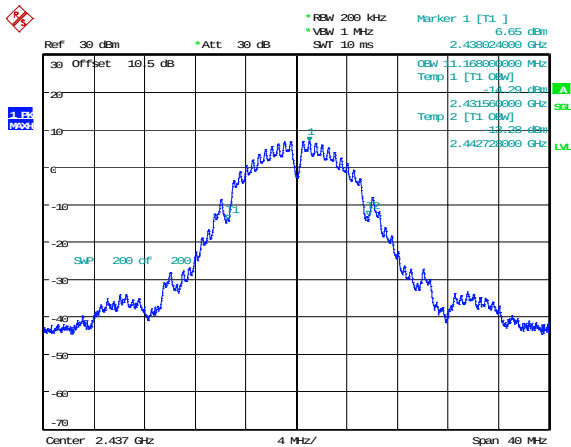
2.4G

802.11b_2412MHz 11.360MHz



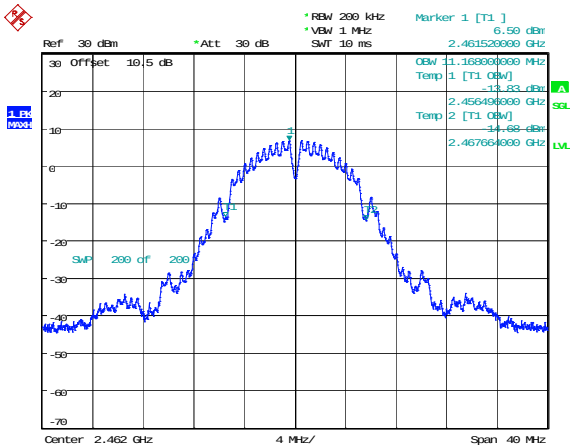
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:46:10

802.11b_2437MHz 11.168MHz



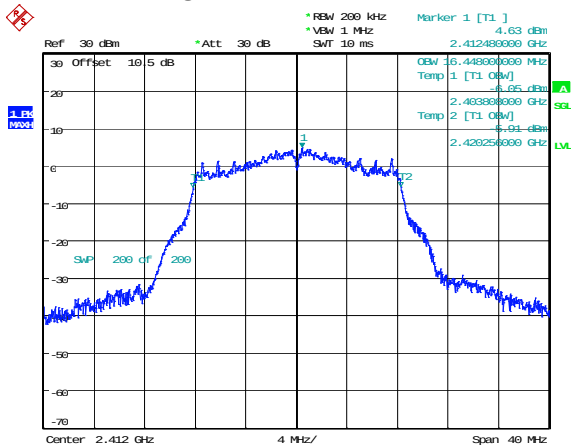
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:49:43

802.11b_2462MHz 11.168MHz



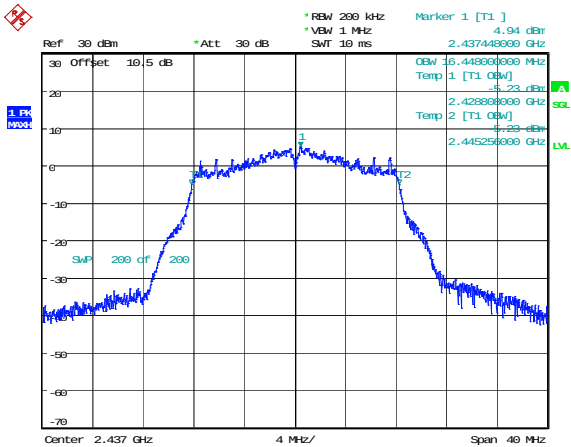
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:51:52

802.11g_2412MHz 16.448MHz



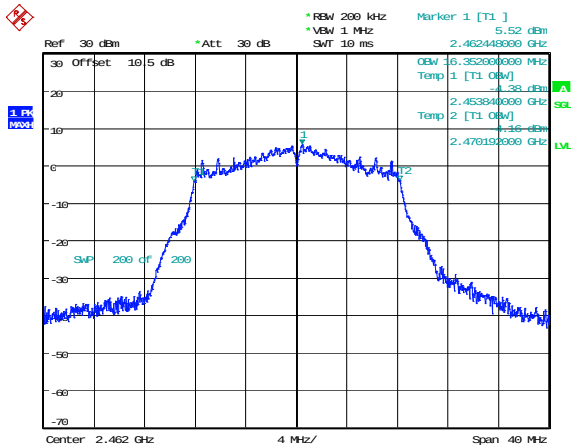
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:55:06

802.11g_2437MHz 16.448MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:58:32

802.11g_2462MHz 16.352MHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 11:00:50

Maximum Conducted Output Power

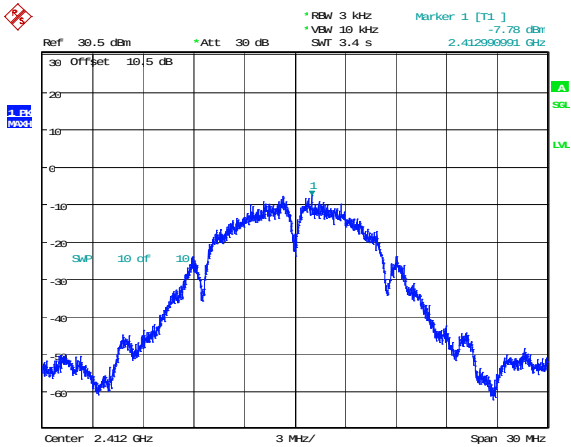
Mode	Antenna	Test Frequency (MHz)	Peak Output Power (dBm)	Limit (dBm)	Verdict
802.11b	Chain 0	2412	16.76	30	Pass
		2437	17.25	30	Pass
		2462	17.49	30	Pass
802.11g	Chain 0	2412	20.45	30	Pass
		2437	21.03	30	Pass
		2462	21.22	30	Pass
802.11n20	Chain 0	2412	20.09	30	Pass
		2437	20.26	30	Pass
		2462	20.68	30	Pass

Power Spectral Density

Mode	Antenna	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
802.11b	Chain 0	2412	-7.78	8	Pass
		2437	-7.72	8	Pass
		2462	-8.02	8	Pass
802.11g	Chain 0	2412	-10.85	8	Pass
		2437	-10.17	8	Pass
		2462	-9.43	8	Pass
802.11n20	Chain 0	2437	-10.74	8	Pass
		2462	-9.86	8	Pass

2.4G

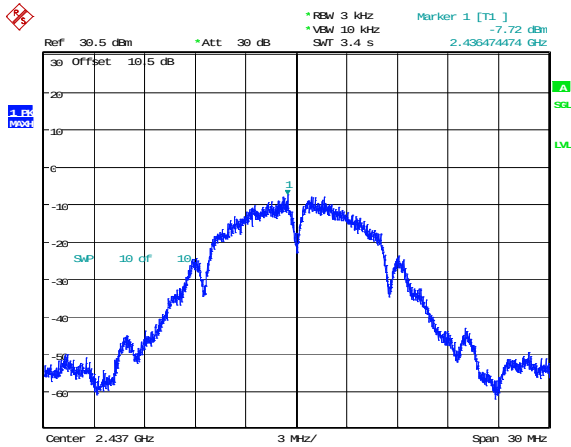
802.11b_2412MHz -7.78dBm/3kHz



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

Date: 8.NOV.2024 10:48:39

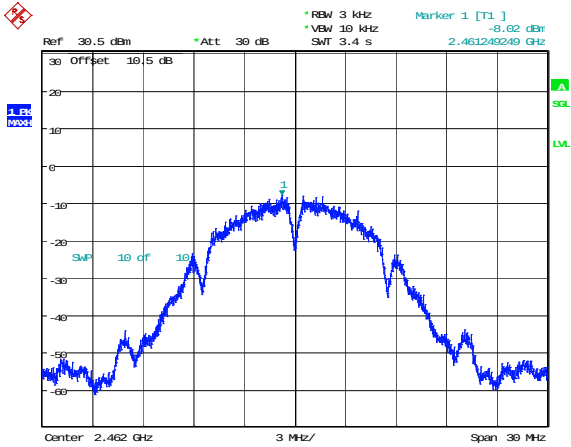
802.11b_2437MHz -7.72dBm/3kHz



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

Date: 8.NOV.2024 10:50:46

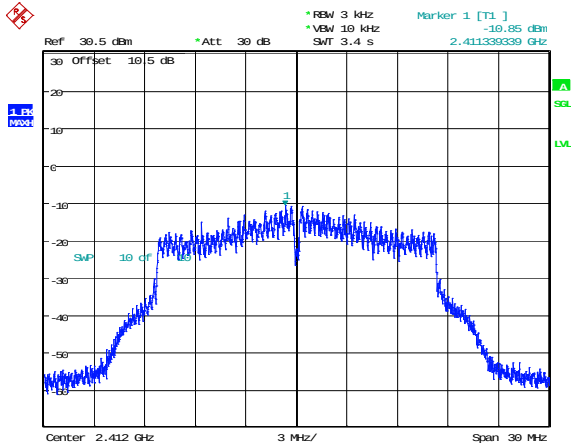
802.11b_2462MHz -8.02dBm/3kHz



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

Date: 8.NOV.2024 10:53:59

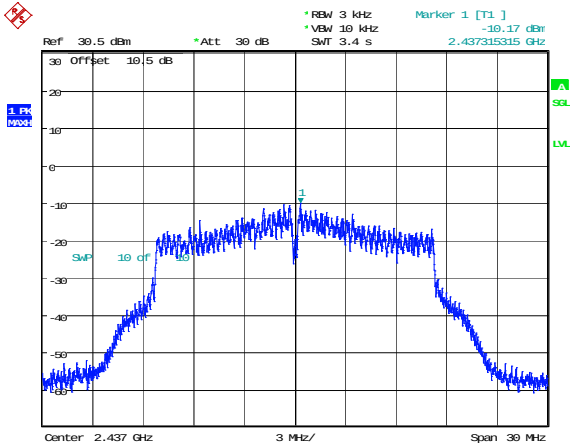
802.11g_2412MHz -10.85dBm/3kHz



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

Date: 8.NOV.2024 10:57:25

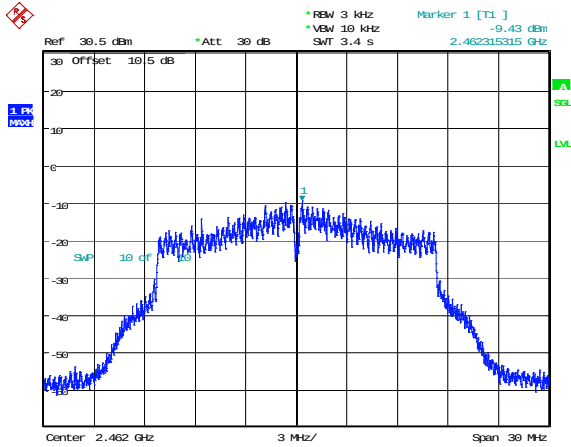
802.11g_2437MHz -10.17dBm/3kHz



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

Date: 8.NOV.2024 10:59:37

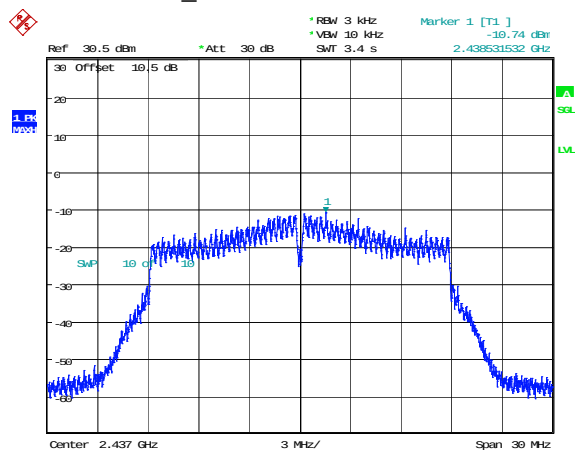
802.11g_2462MHz -9.43dBm/3kHz



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

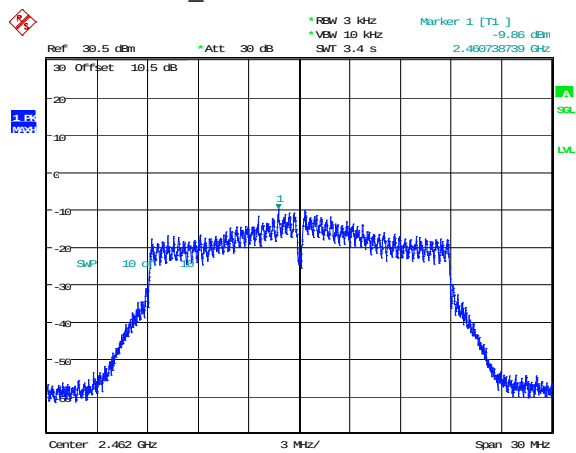
Date: 8.NOV.2024 11:03:09

802.11n20_2437MHz -10.74dBm/3kHz



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 11:08:05

802.11n20_2462MHz -9.86dBm/3kHz



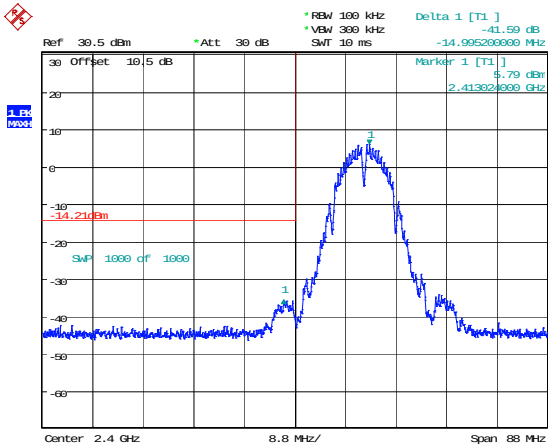
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing LI
Date: 8.NOV.2024 11:11:25

100 kHz Bandwidth of Frequency Band Edge

Mode	Antenna	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
802.11b	Chain 0	2412	41.59	20	Pass
		2462	48.15	20	Pass
802.11g	Chain 0	2412	36.91	20	Pass
		2462	43.76	20	Pass
802.11n20	Chain 0	2412	37.20	20	Pass
		2462	43.36	20	Pass

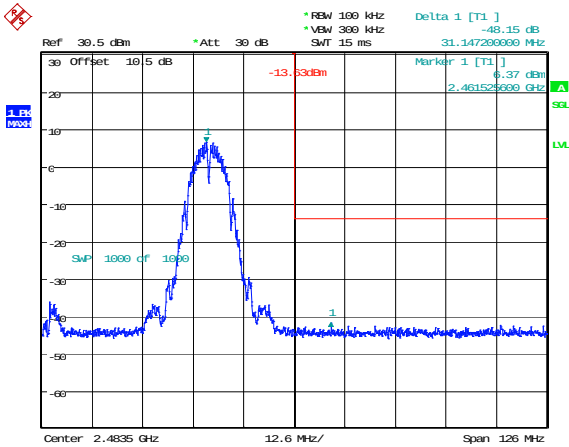
2.4G

802.11b_2412MHz 41.59dB



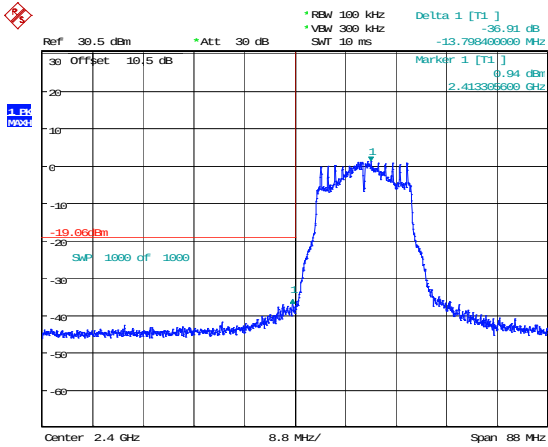
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:47:55

802.11b_2462MHz 48.15dB



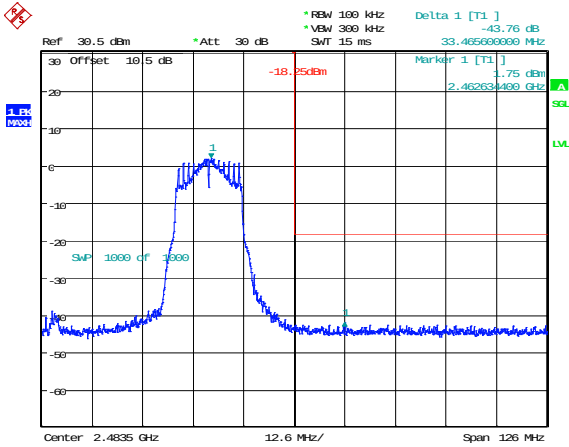
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:53:14

802.11g_2412MHz 36.91dB



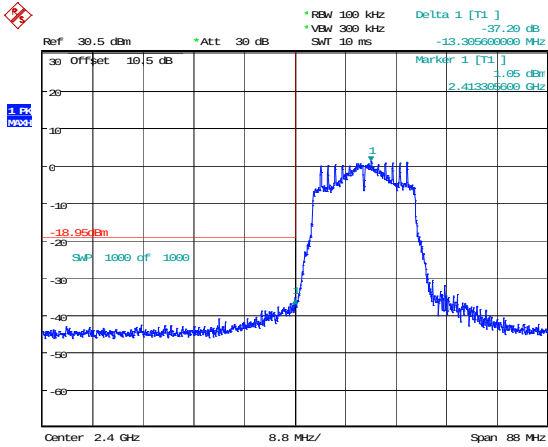
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:56:39

802.11g_2462MHz 43.76dB



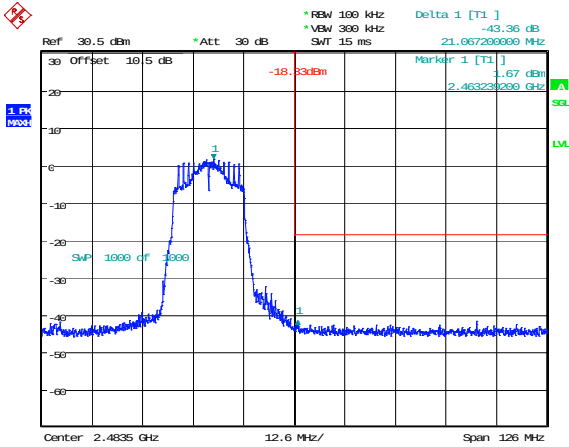
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 11:02:15

802.11n20_2412MHz 37.20dB



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 11:05:39

802.11n20_2462MHz 43.36dB



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 11:10:49

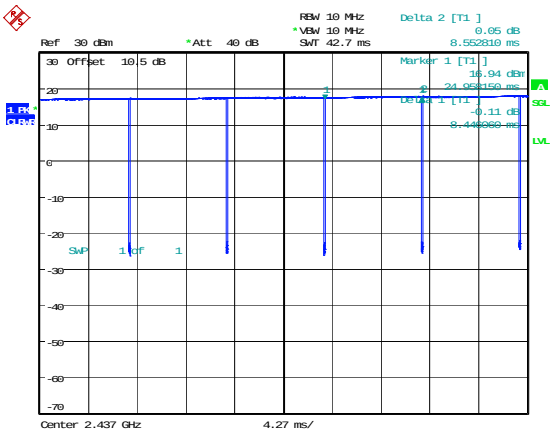
Duty Cycle

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	8.446	8.553	98.75	/	/	0.010
802.11g	Chain 0	2437	1.394	1.499	93.00	0.32	717	1
802.11n20	Chain 0	2437	1.306	1.411	92.56	0.34	766	1

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

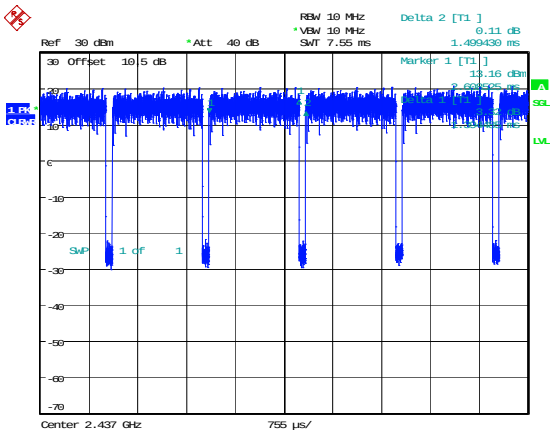
2.4G

802.11b_2437MHz
8.446ms,8.553ms



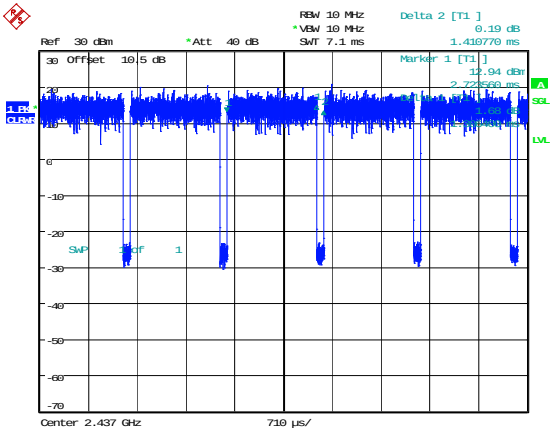
Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:43:20

802.11g_2437MHz
1.394ms,1.499ms



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:43:56

802.11n20_2437MHz
1.306ms,1.411ms



Comment: ProjectNo.:2403X59131E-RF Tester:LingLing Li
Date: 8.NOV.2024 10:44:44