

Appendix A

RF Test: General Information

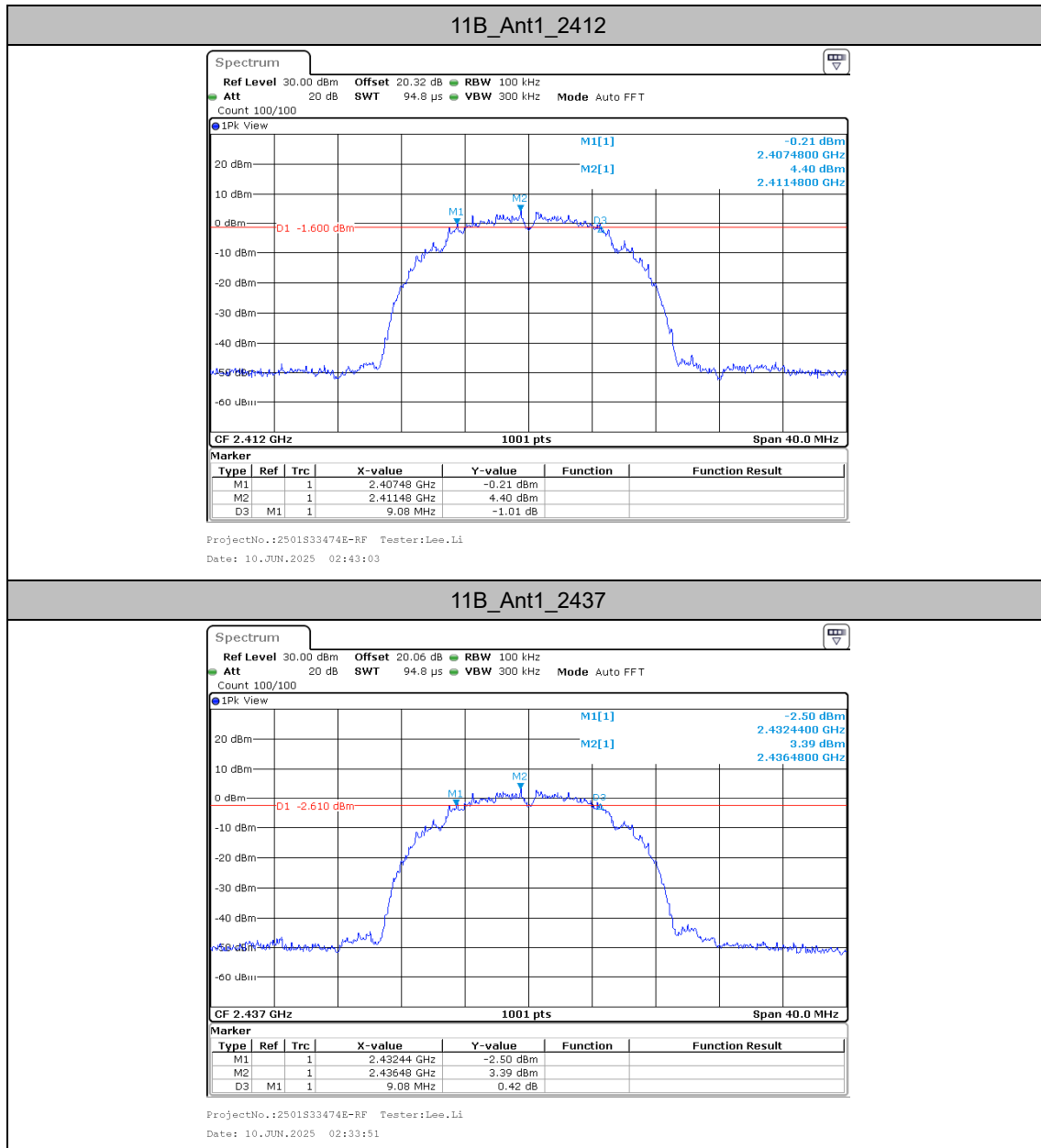
Project No.:	2501S33474E-RF
EUT Number:	312N-1
Operating Mode:	Transmitting
Test Conditions:	Temperature: <u>25-27</u> °C Relative Humidity: 45- <u>55</u> % ATM Pressure: <u>101-101.2</u> kPa
Test Engineer:	Lee Li
Test Date:	2025/05/07-2025/06/10

DTS Bandwidth

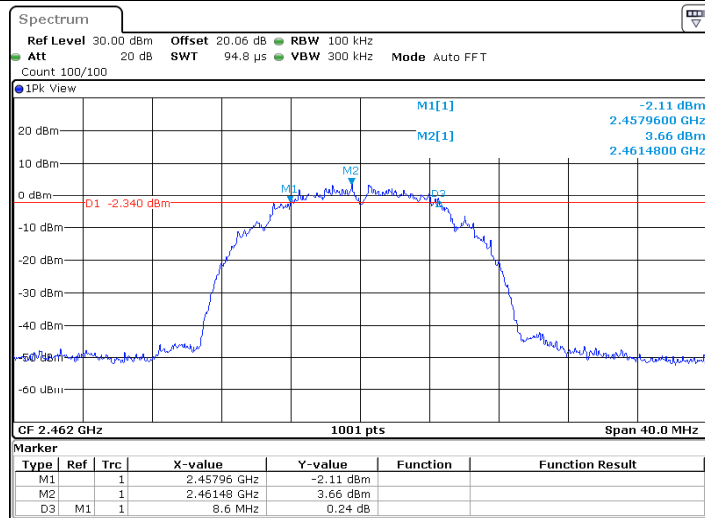
Test Result

Test Mode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	9.08	2407.48	2416.56	0.5	PASS
		2437	9.08	2432.44	2441.52	0.5	PASS
		2462	8.60	2457.96	2466.56	0.5	PASS
11G	Ant1	2412	16.56	2403.72	2420.28	0.5	PASS
		2437	16.56	2428.72	2445.28	0.5	PASS
		2462	16.56	2453.72	2470.28	0.5	PASS
11N20SISO	Ant1	2412	17.60	2403.20	2420.80	0.5	PASS
		2437	17.60	2428.20	2445.80	0.5	PASS
		2462	17.60	2453.20	2470.80	0.5	PASS
11N40SISO	Ant1	2422	34.16	2405.12	2439.28	0.5	PASS
		2437	34.24	2420.12	2454.36	0.5	PASS
		2452	34.16	2435.12	2469.28	0.5	PASS

Test Graphs

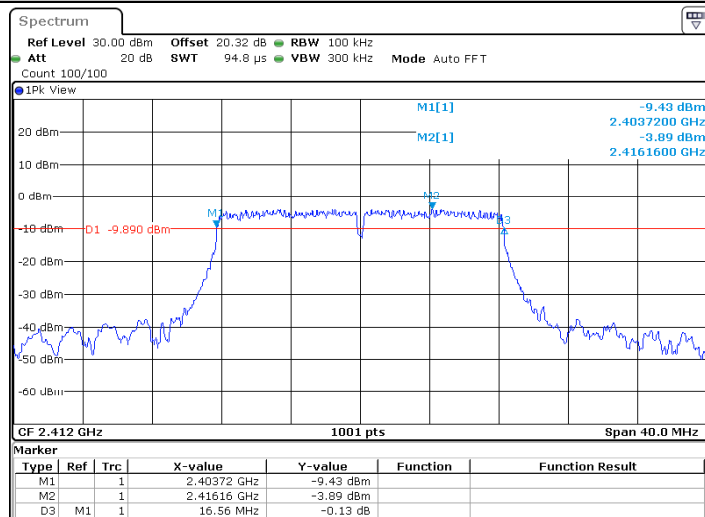


11B_Ant1_2462



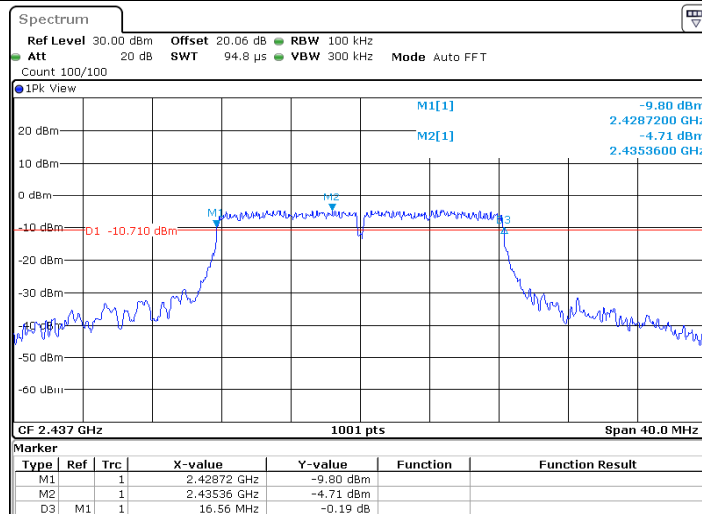
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:34:48

11G_Ant1_2412



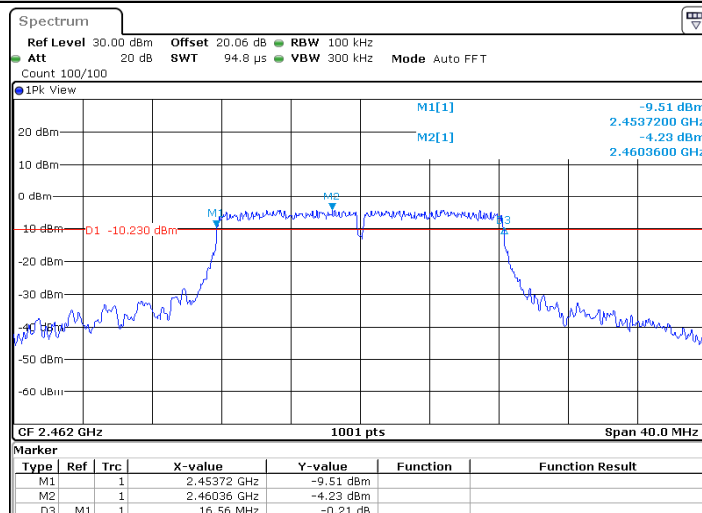
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:36:00

11G_Ant1_2437



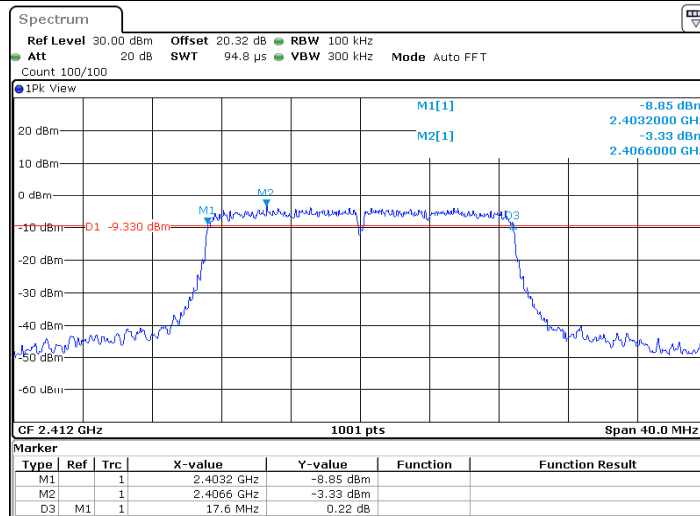
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:37:22

11G_Ant1_2462



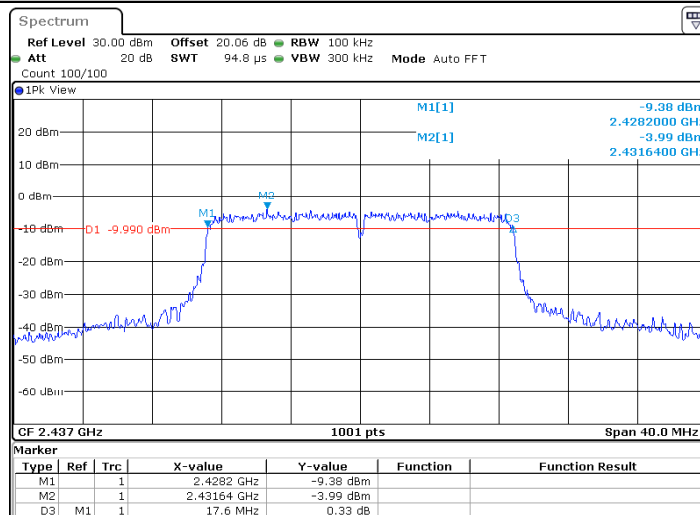
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:38:19

11N20SISO_Ant1_2412



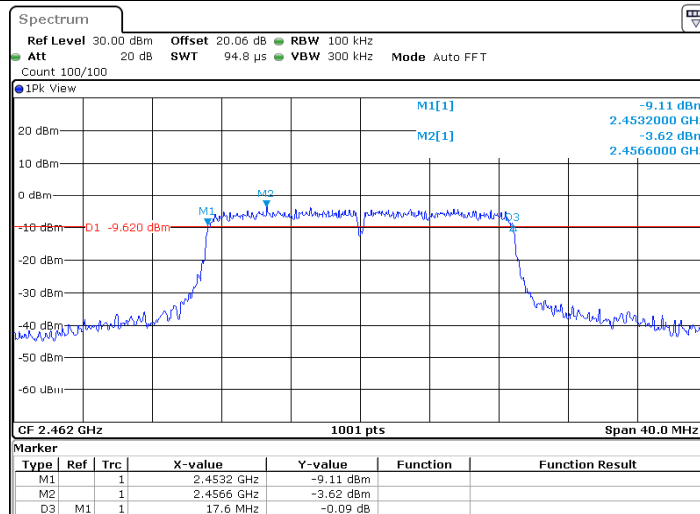
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Date: 10.JUN.2025 02:39:31

11N20SISO_Ant1_2437



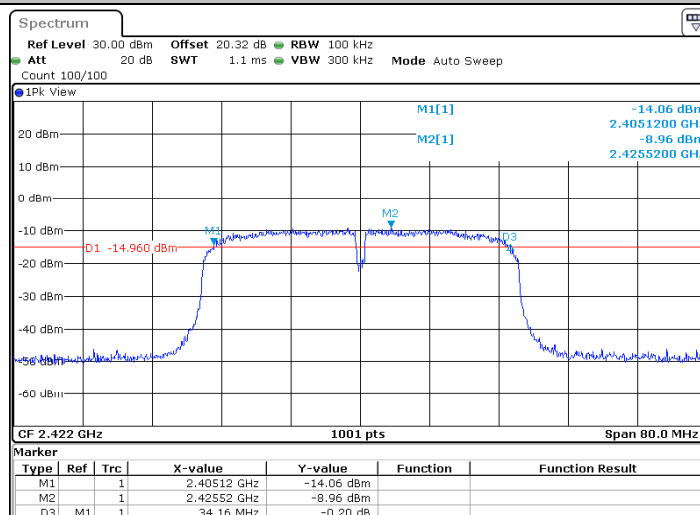
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Date: 10.JUN.2025 02:40:56

11N20SISO_Ant1_2462



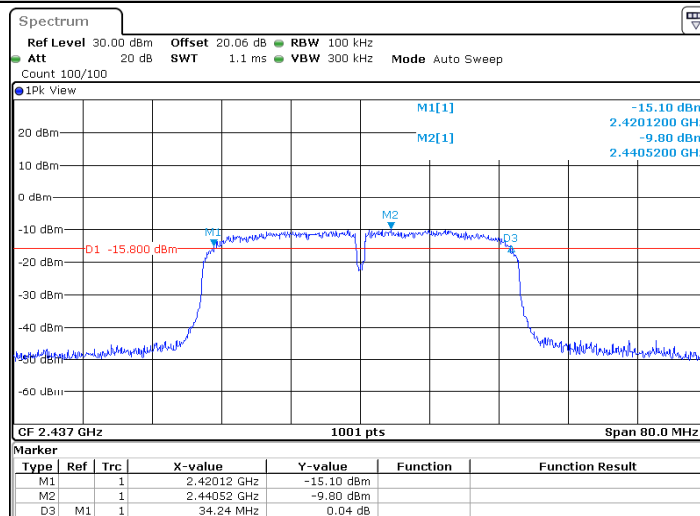
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:41:52

11N40SISO_Ant1_2422



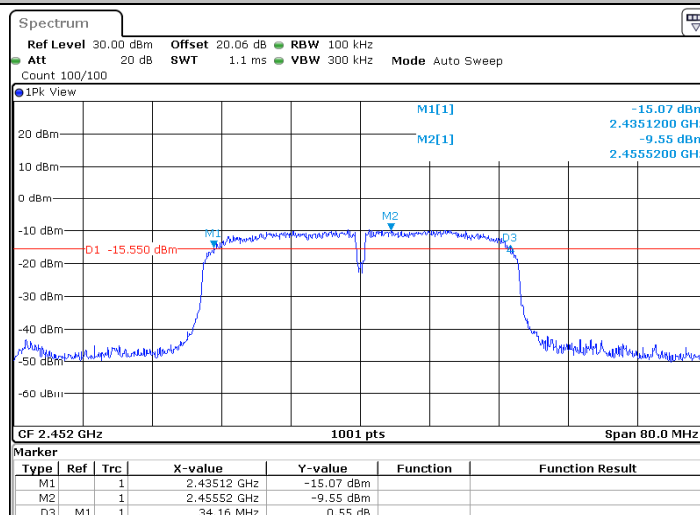
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:44:13

11N40SISO_Ant1_2437



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:45:41

11N40SISO_Ant1_2452



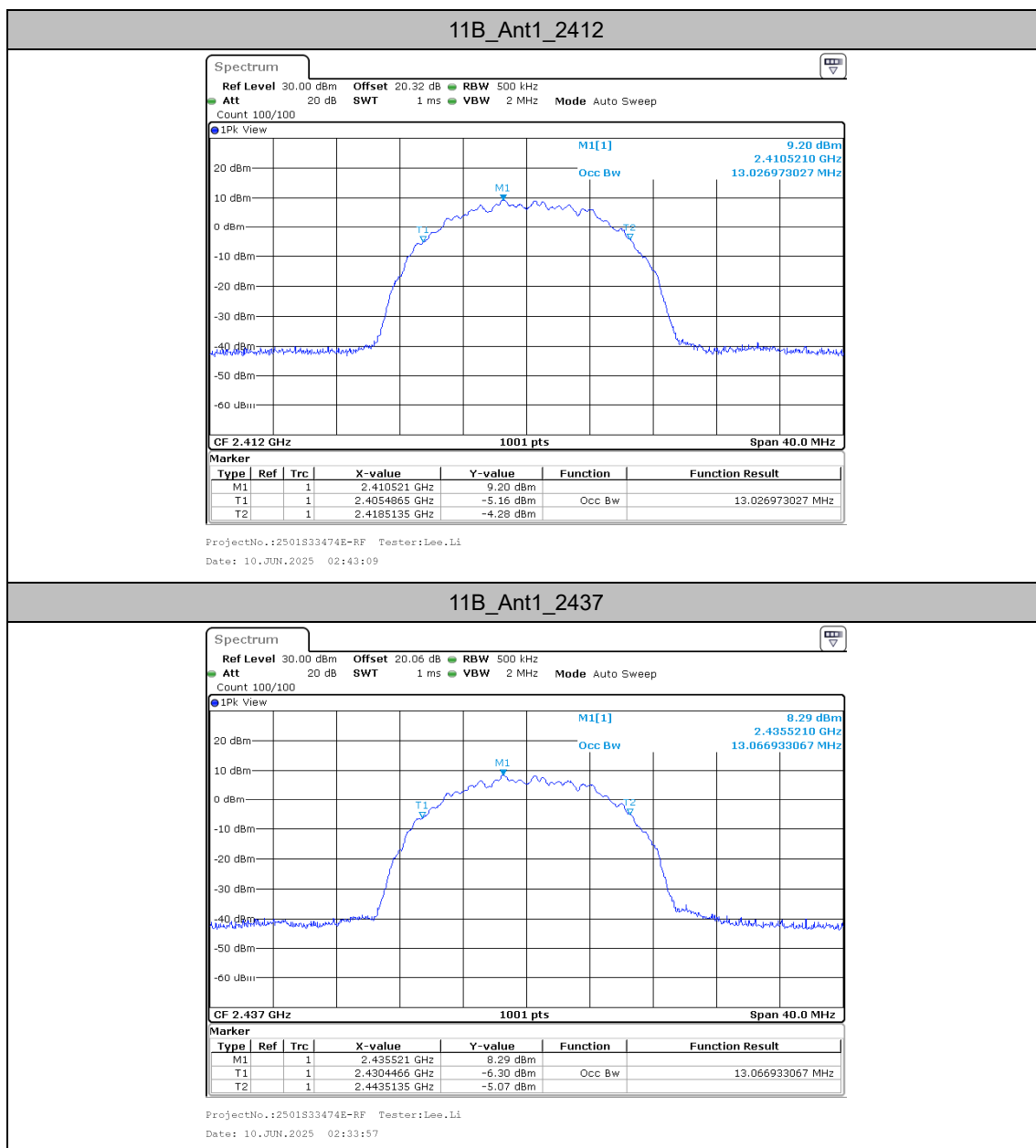
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:46:38

Occupied Channel Bandwidth

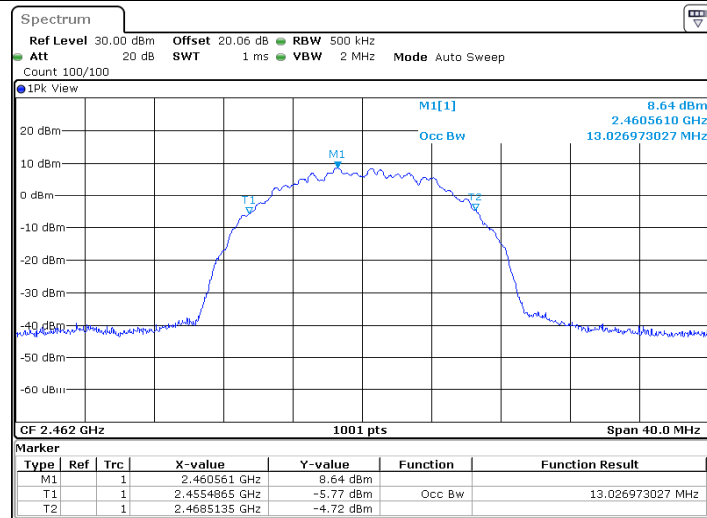
Test Result

Test Mode	Antenna	ChannelFrequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.027	2405.4865	2418.5135	---	---
		2437	13.067	2430.4466	2443.5135	---	---
		2462	13.027	2455.4865	2468.5135	---	---
11G	Ant1	2412	16.863	2403.5285	2420.3916	---	---
		2437	17.063	2428.4086	2445.4715	---	---
		2462	17.063	2453.4086	2470.4715	---	---
11N20SISO	Ant1	2412	17.622	2403.2088	2420.8312	---	---
		2437	17.702	2428.1688	2445.8711	---	---
		2462	17.702	2453.1688	2470.8711	---	---
11N40SISO	Ant1	2422	35.085	2404.4975	2439.5824	---	---
		2437	35.165	2419.4975	2454.6623	---	---
		2452	35.165	2434.4975	2469.6623	---	---

Test Graphs

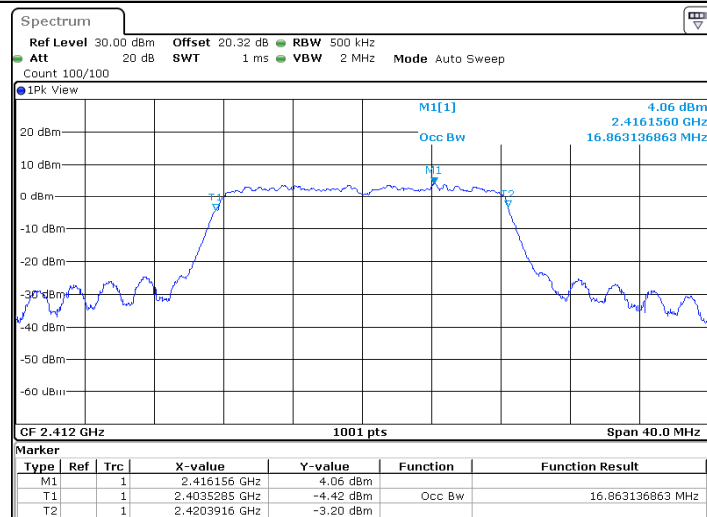


11B_Ant1_2462



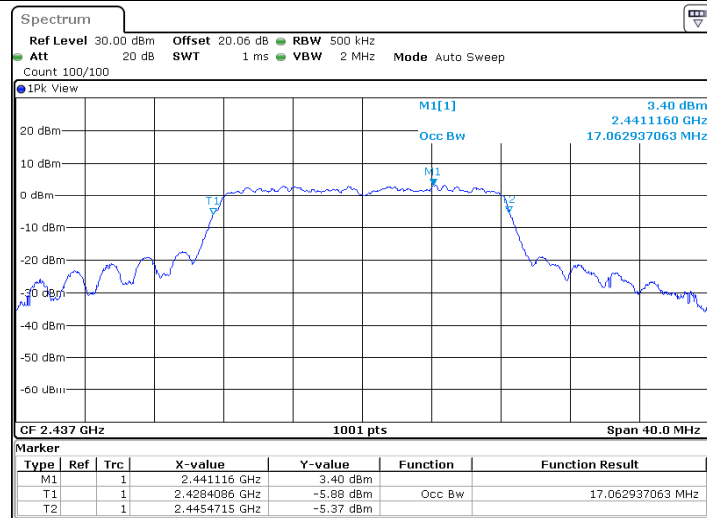
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Date: 10.JUN.2025 02:34:54

11G_Ant1_2412



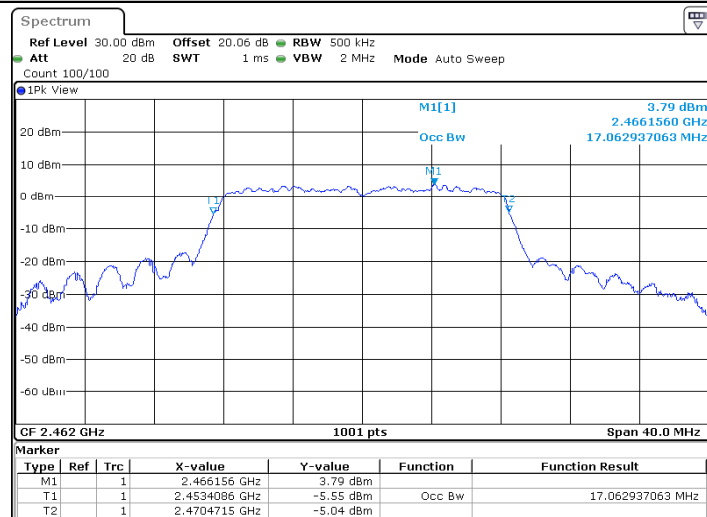
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Date: 10.JUN.2025 02:36:06

11G_Ant1_2437



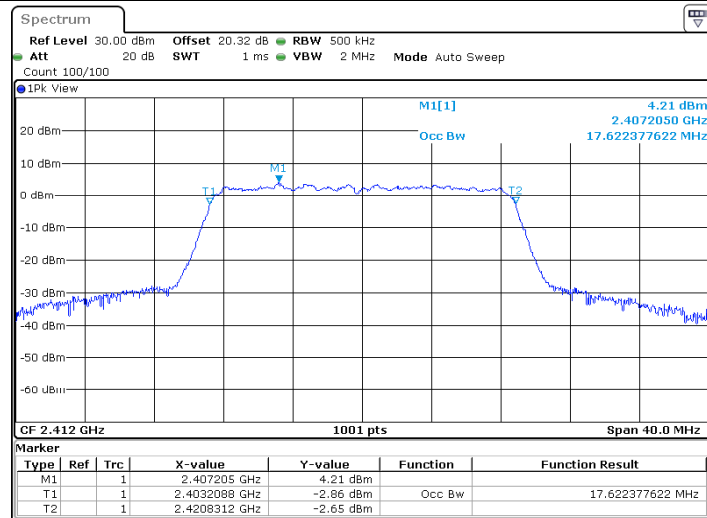
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Date: 10.JUN.2025 02:37:28

11G_Ant1_2462



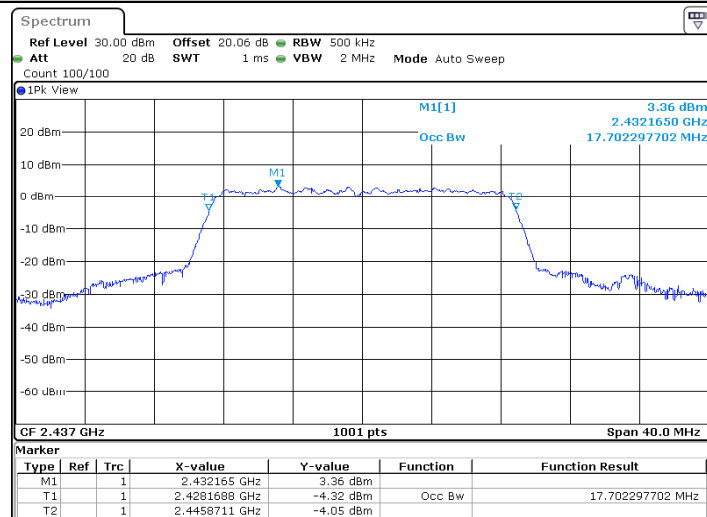
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Date: 10.JUN.2025 02:38:25

11N20SISO_Ant1_2412



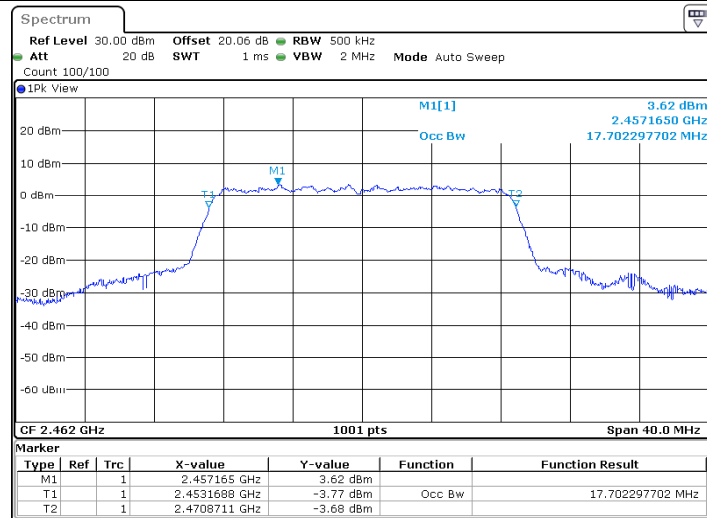
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Date: 10.JUN.2025 02:39:37

11N20SISO_Ant1_2437



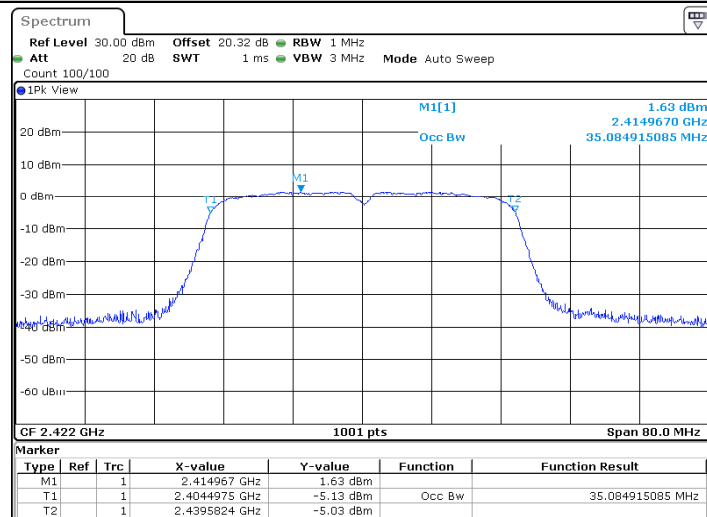
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:41:02

11N20SISO_Ant1_2462



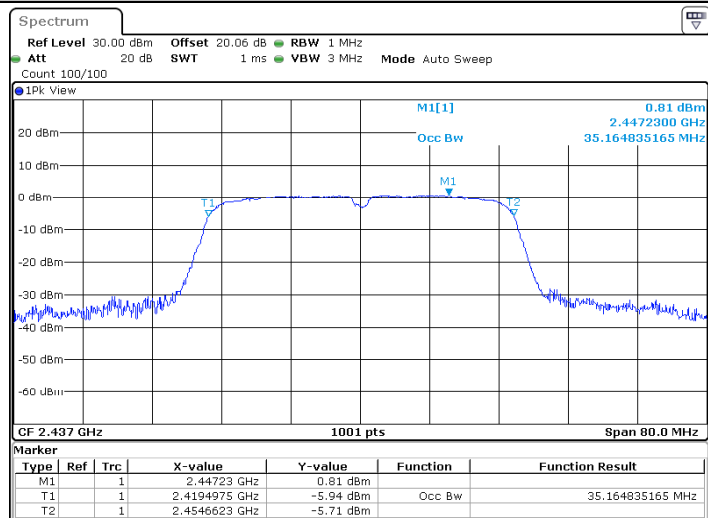
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:41:58

11N40SISO_Ant1_2422



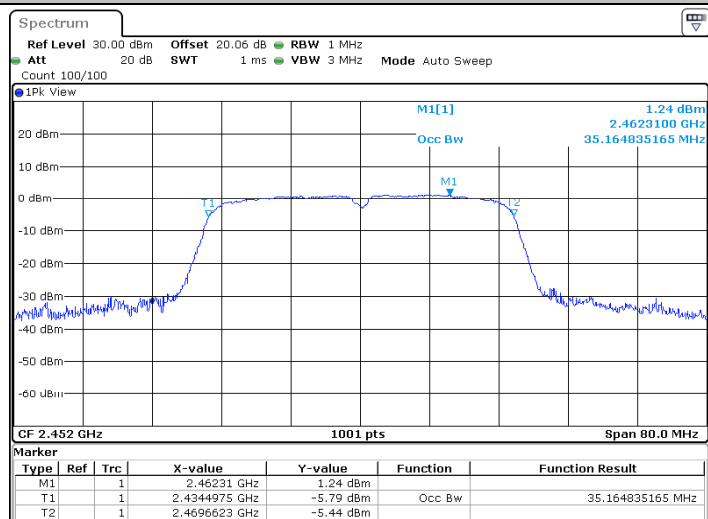
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:44:19

11N40SISO_Ant1_2437



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:45:47

11N40SISO_Ant1_2452



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:46:44

Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power[dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	19.32	≤30.00	PASS
		2437	18.43	≤30.00	PASS
		2462	18.79	≤30.00	PASS
11G	Ant1	2412	18.05	≤30.00	PASS
		2437	17.43	≤30.00	PASS
		2462	17.77	≤30.00	PASS
11N20SISO	Ant1	2412	18.31	≤30.00	PASS
		2437	17.62	≤30.00	PASS
		2462	17.93	≤30.00	PASS
11N40SISO	Ant1	2422	15.28	≤30.00	PASS
		2437	14.55	≤30.00	PASS
		2452	14.90	≤30.00	PASS

Test Result Average

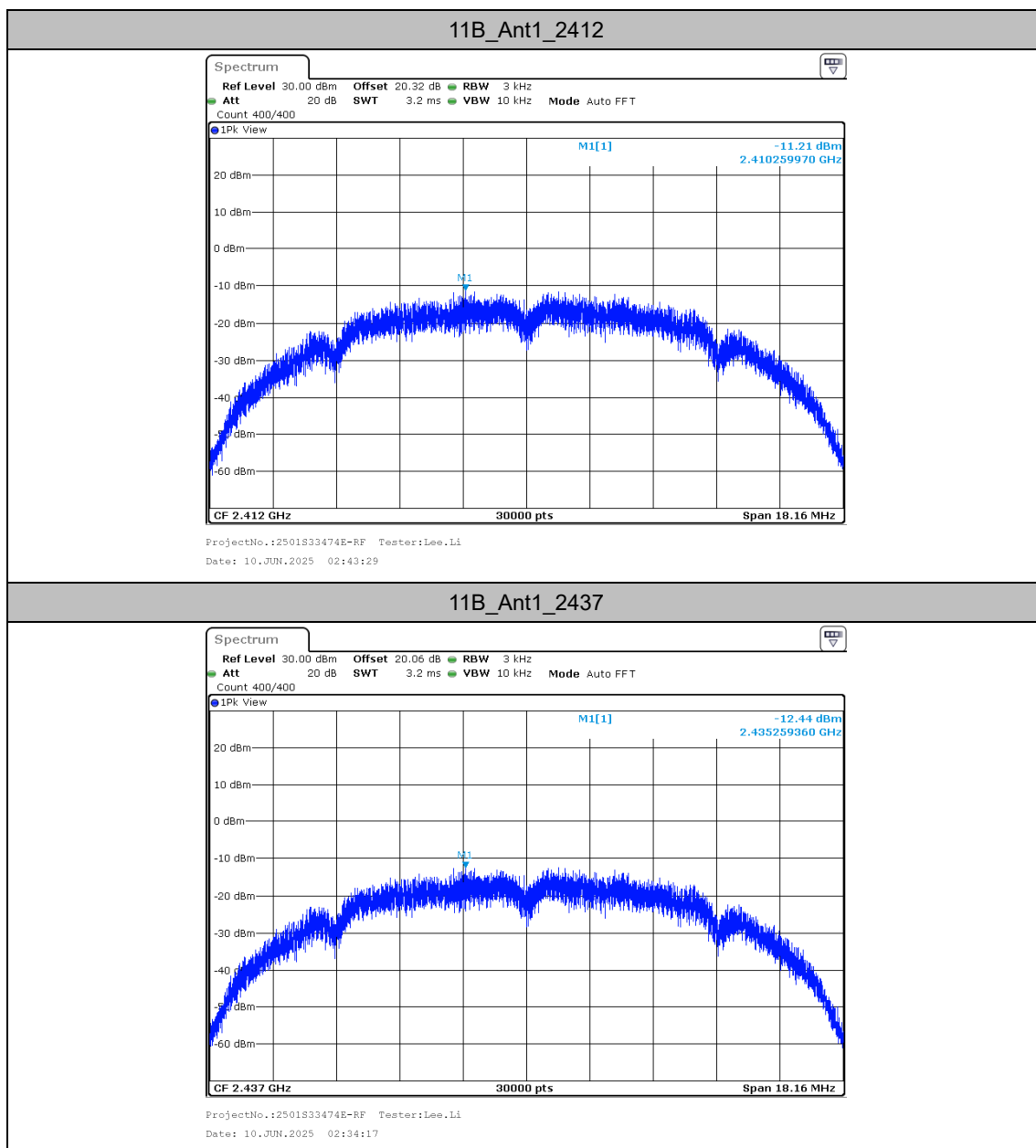
Test Mode	Antenna	Frequency [MHz]	Average Power [dBm]	Conducted Limit[dBm]	Verdict
11B	Ant1	2412	16.43	≤30.00	PASS
		2437	15.26	≤30.00	PASS
		2462	15.17	≤30.00	PASS
11G	Ant1	2412	11.18	≤30.00	PASS
		2437	11.15	≤30.00	PASS
		2462	11.11	≤30.00	PASS
11N20SISO	Ant1	2412	11.10	≤30.00	PASS
		2437	11.02	≤30.00	PASS
		2462	11.01	≤30.00	PASS
11N40SISO	Ant1	2422	8.60	≤30.00	PASS
		2437	8.21	≤30.00	PASS
		2452	8.32	≤30.00	PASS

Maximum power spectral density

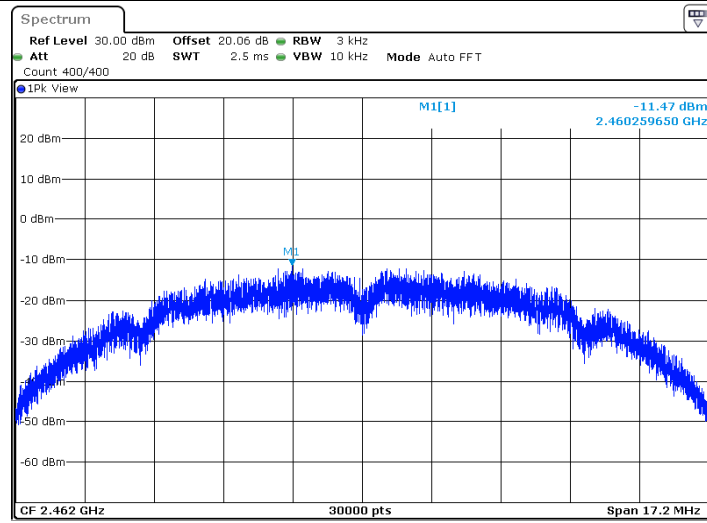
Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.21	≤8.00	PASS
		2437	-12.44	≤8.00	PASS
		2462	-11.47	≤8.00	PASS
11G	Ant1	2412	-18.22	≤8.00	PASS
		2437	-18.86	≤8.00	PASS
		2462	-18.56	≤8.00	PASS
11N20SISO	Ant1	2412	-17.43	≤8.00	PASS
		2437	-18.13	≤8.00	PASS
		2462	-17.79	≤8.00	PASS
11N40SISO	Ant1	2422	-21.36	≤8.00	PASS
		2437	-21.96	≤8.00	PASS
		2452	-21.52	≤8.00	PASS

Test Graphs

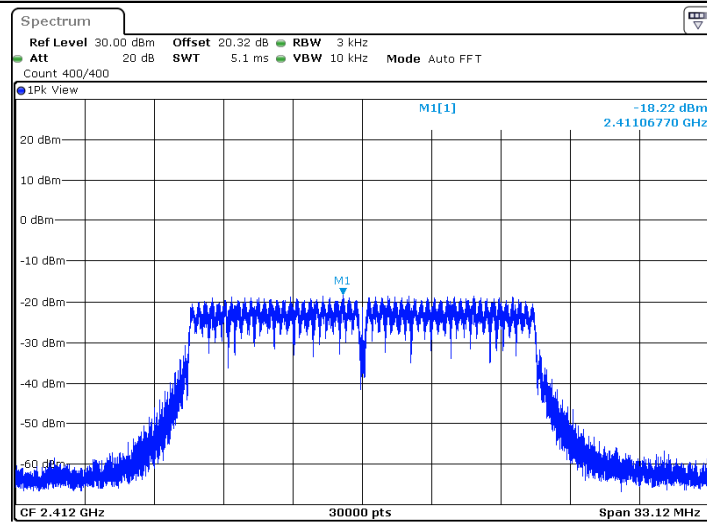


11B_Ant1_2462



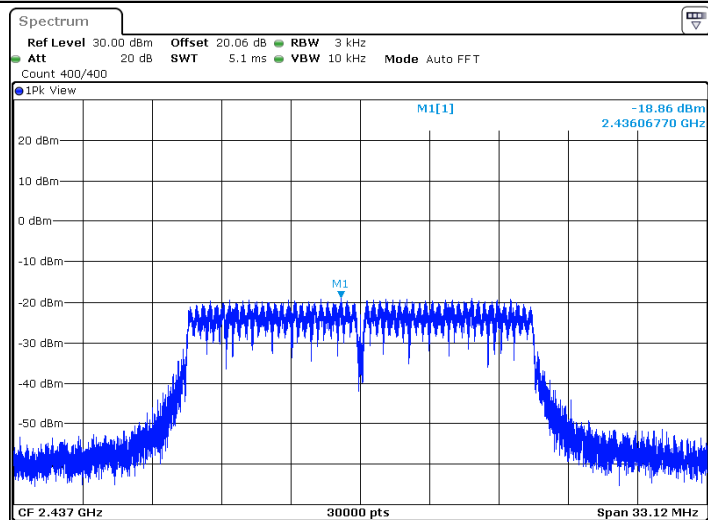
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:35:14

11G_Ant1_2412



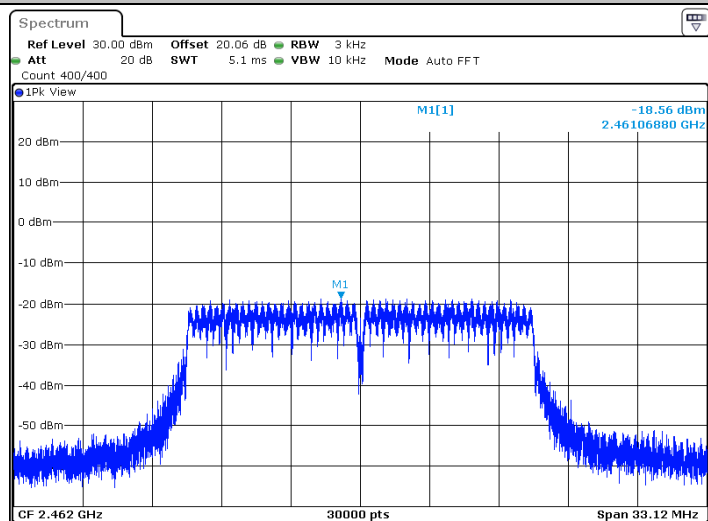
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:36:26

11G_Ant1_2437



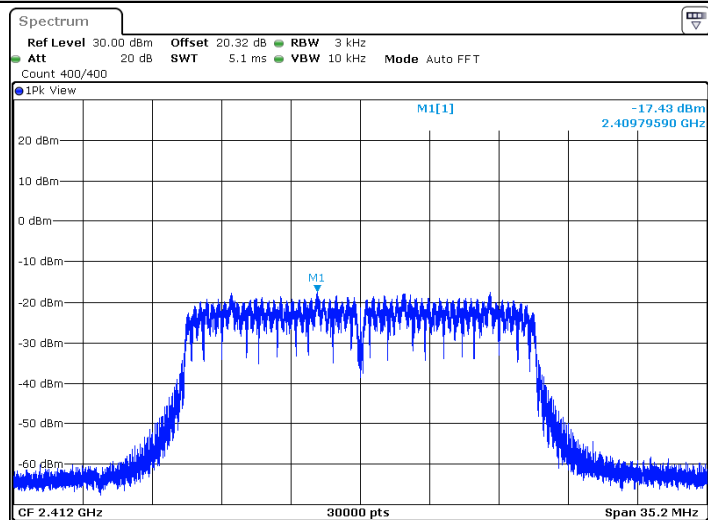
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:37:48

11G_Ant1_2462



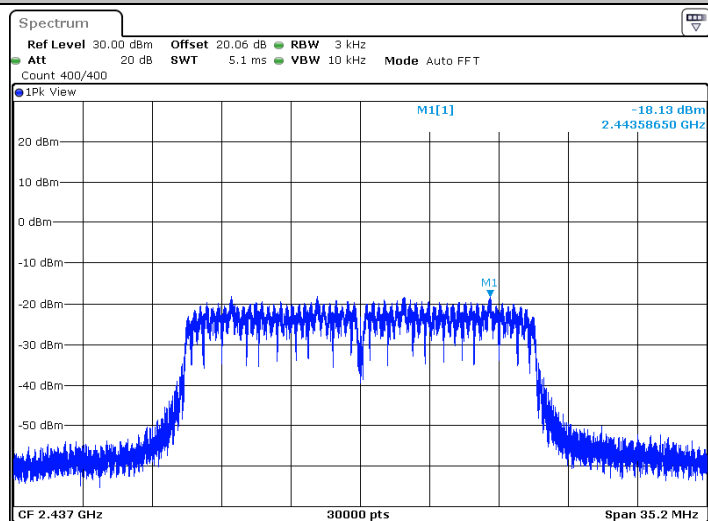
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Date: 10.JUN.2025 02:38:44

11N20SISO_Ant1_2412



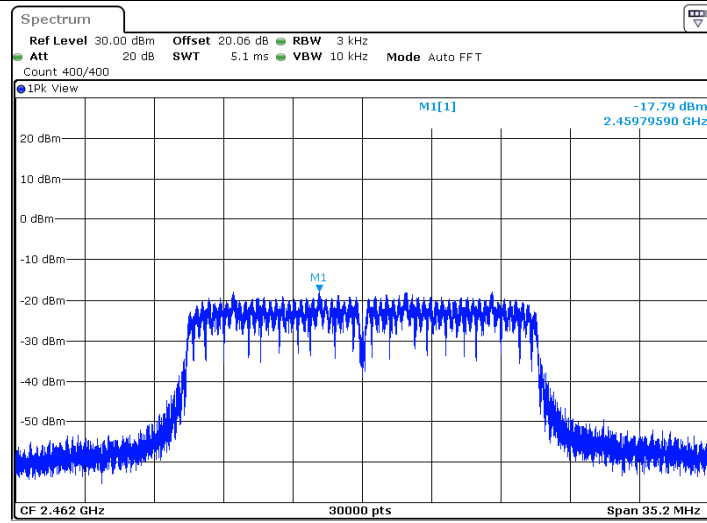
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:39:57

11N20SISO_Ant1_2437



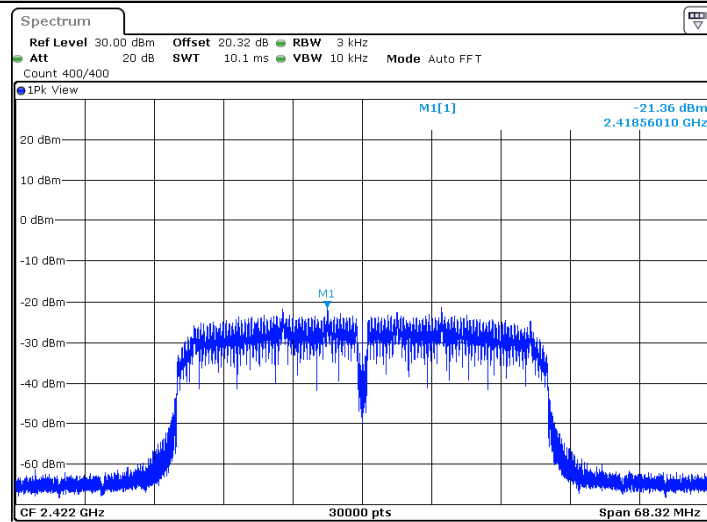
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:41:22

11N20SISO_Ant1_2462



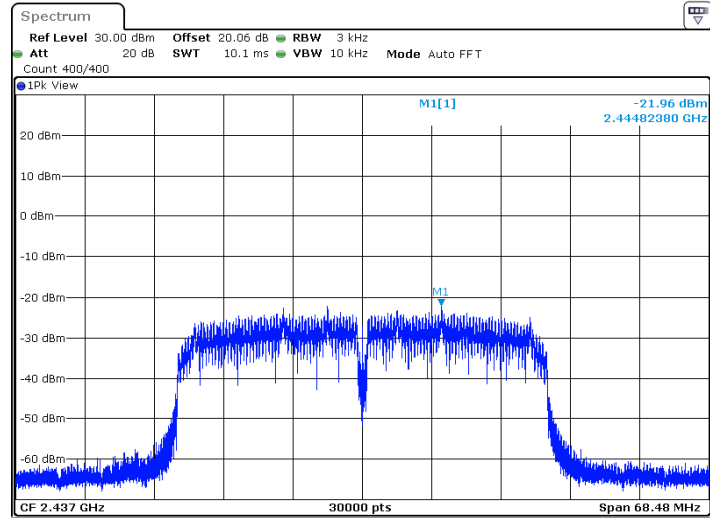
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:42:18

11N40SISO_Ant1_2422



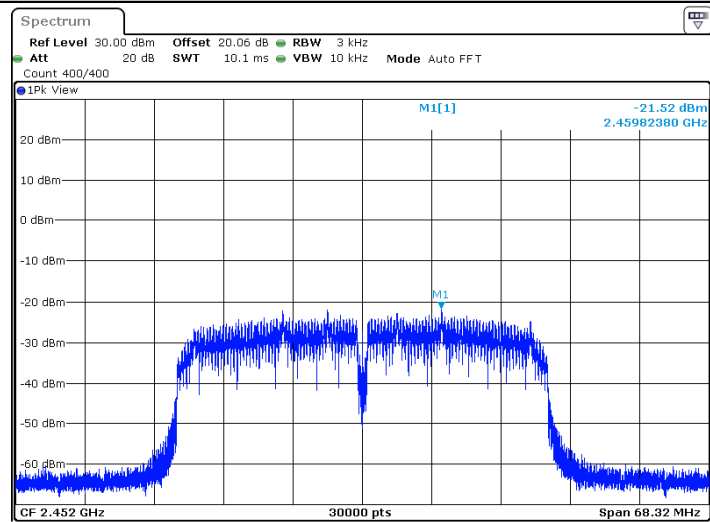
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:44:43

11N40SISO_Ant1_2437



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:46:12

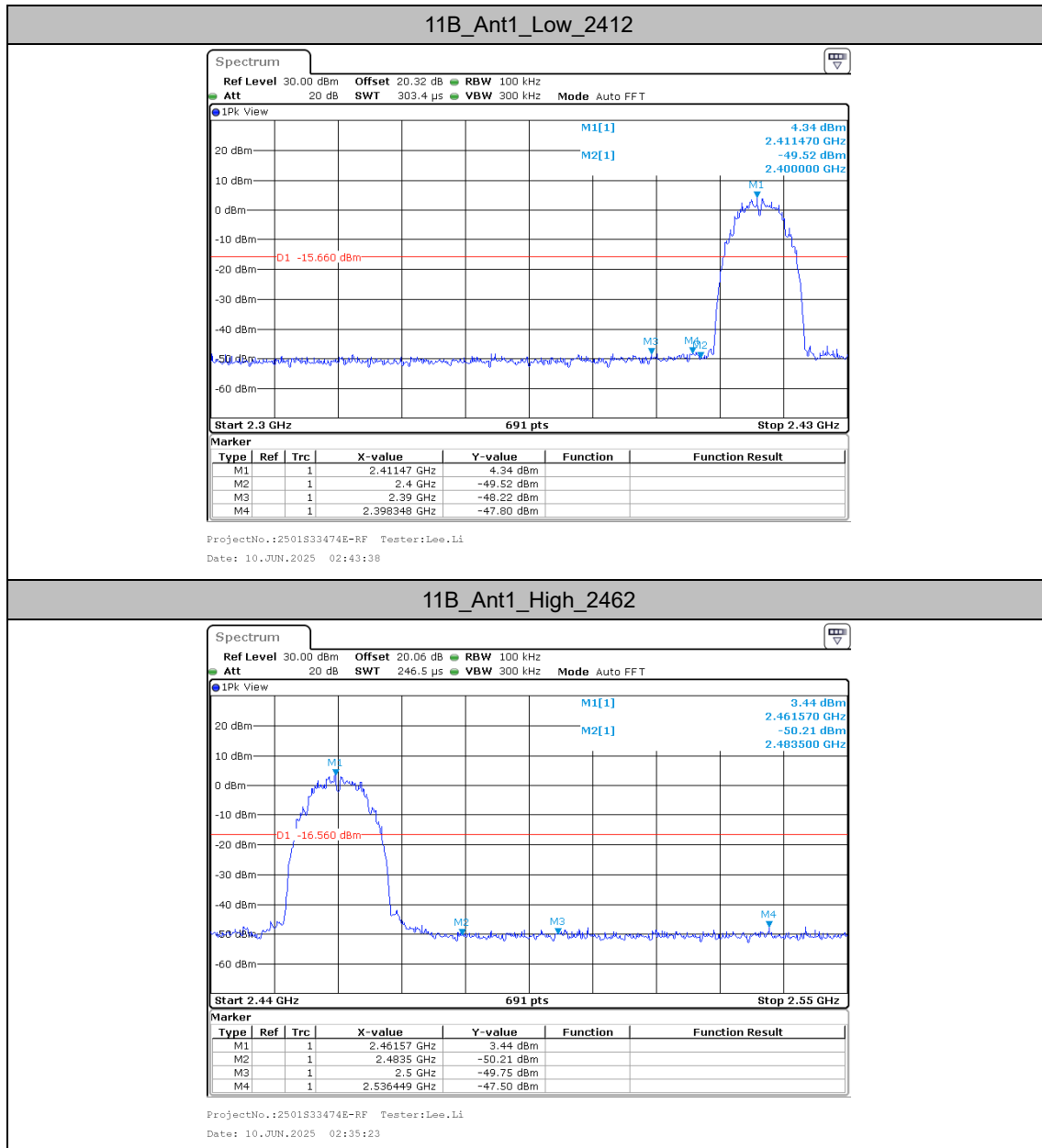
11N40SISO_Ant1_2452



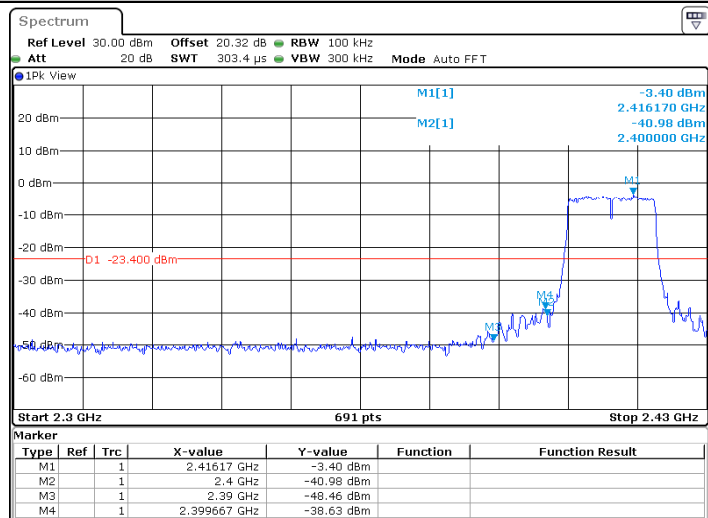
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:47:09

Band edge measurements

Test Graphs



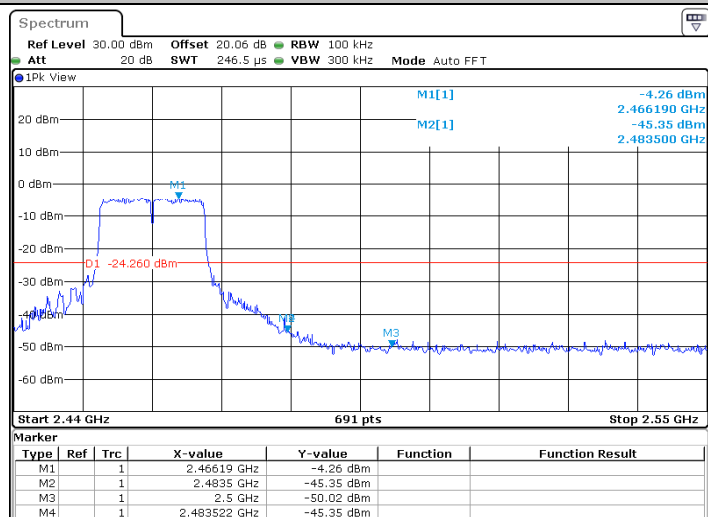
11G_Ant1_Low_2412



ProjectNo.:2501S33474E-RF Tester:Lee.Li

Date: 10.JUN.2025 02:36:35

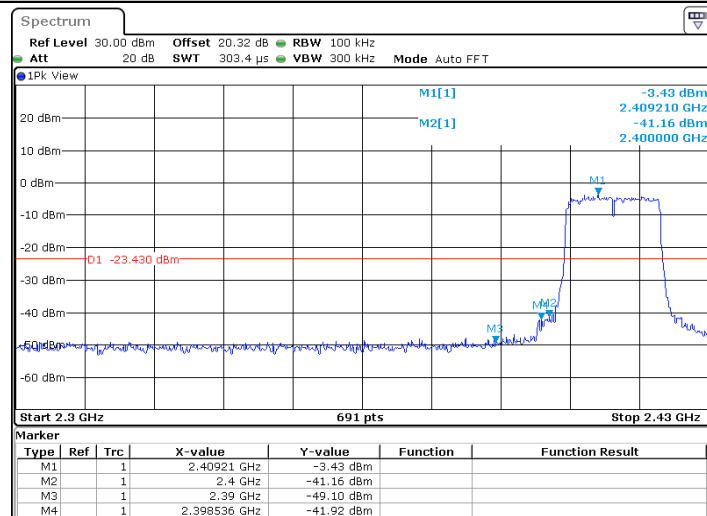
11G_Ant1_High_2462



ProjectNo.:2501S33474E-RF Tester:Lee.Li

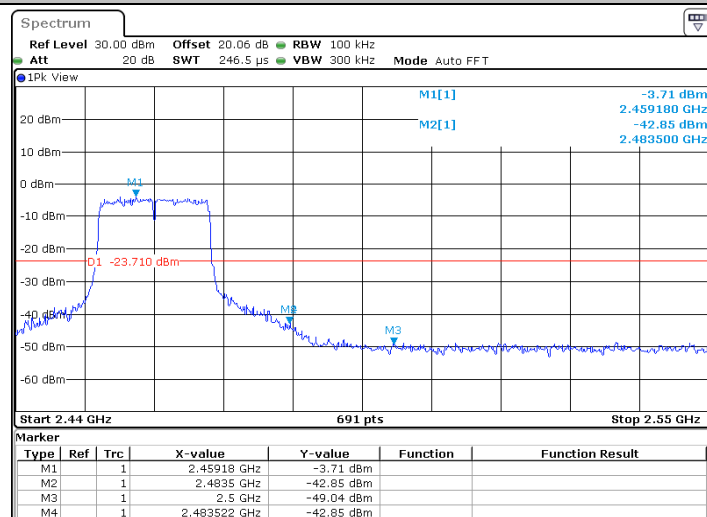
Date: 10.JUN.2025 02:38:53

11N20SISO_Ant1_Low_2412



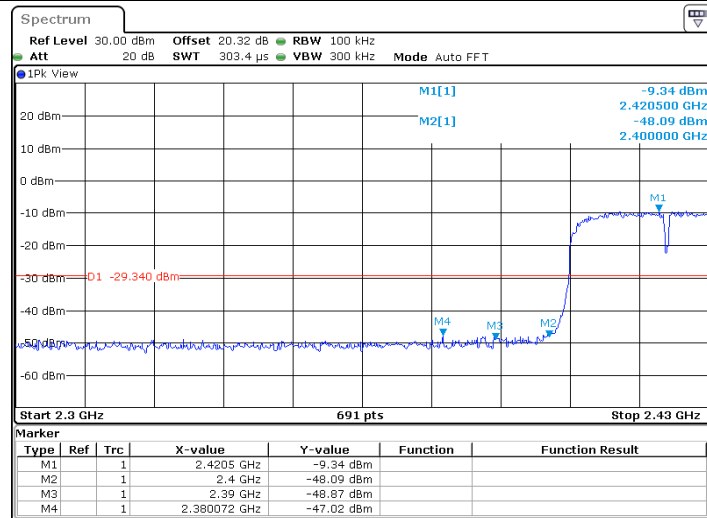
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:40:06

11N20SISO_Ant1_High_2462



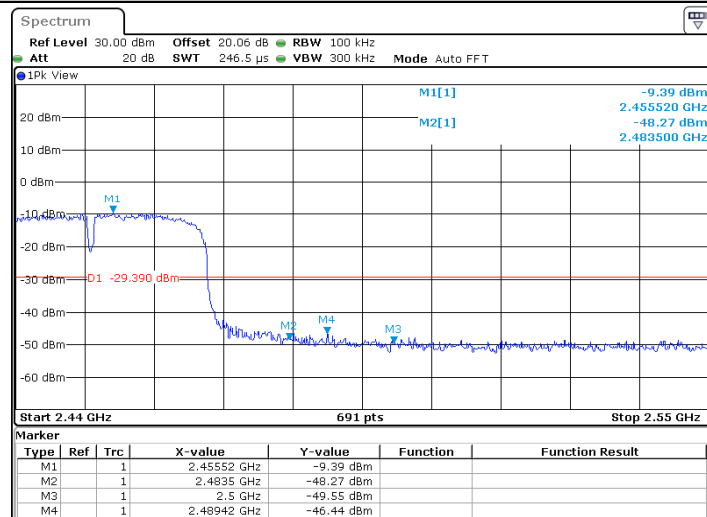
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:42:27

11N40SISO_Ant1_Low_2422



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:44:52

11N40SISO_Ant1_High_2452



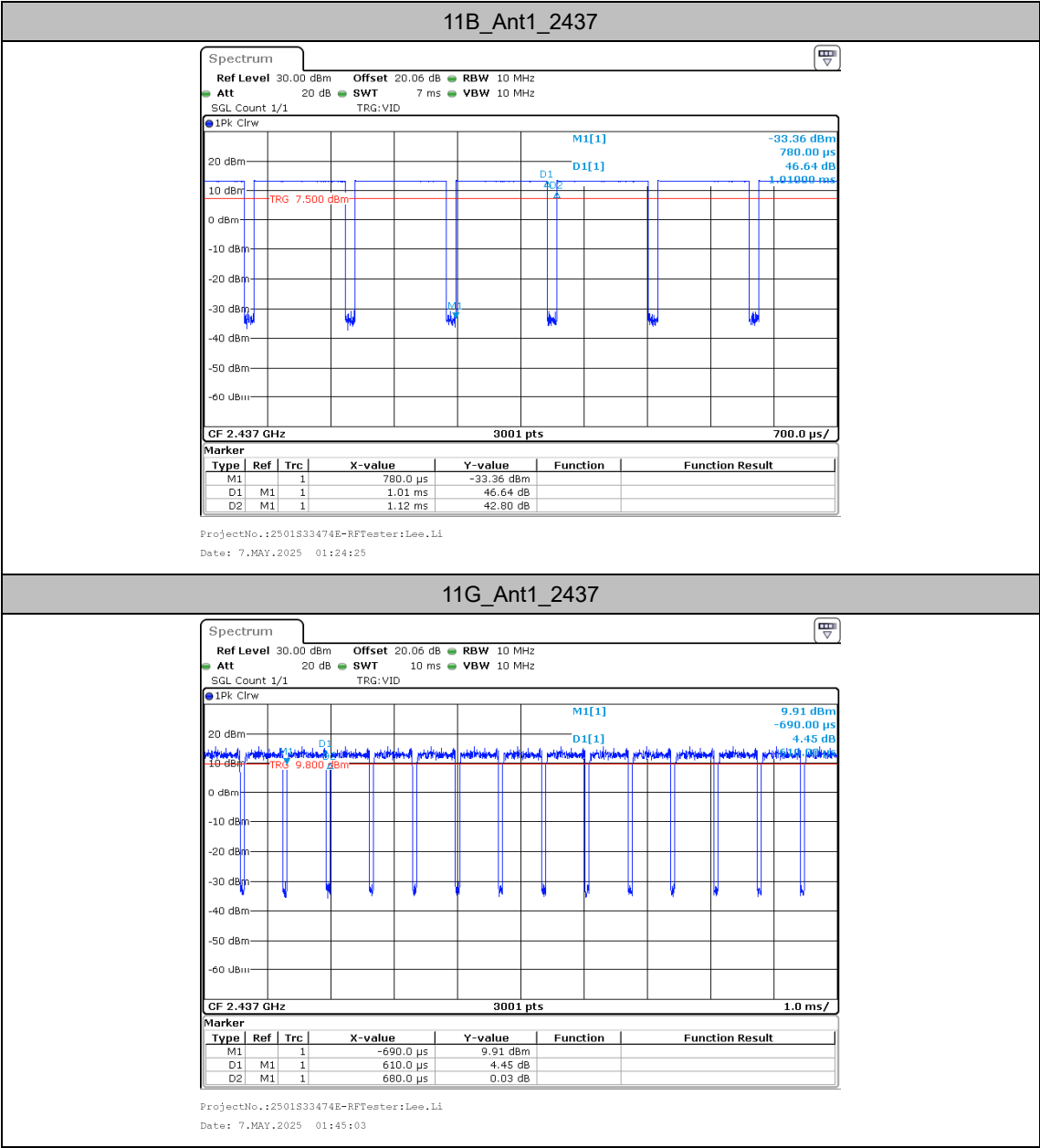
ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 10.JUN.2025 02:47:18

Duty Cycle

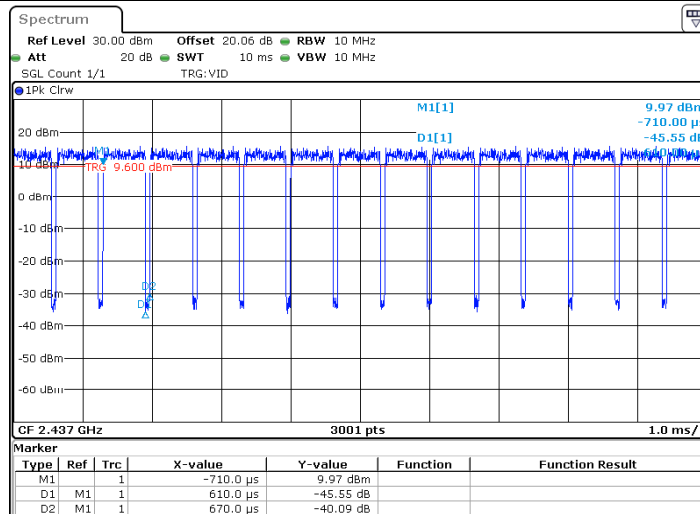
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/Ton (Hz)	VBW Setting (kHz)
11B	Ant1	2437	1.01	1.12	90.18	990	1
11G	Ant1	2437	0.61	0.68	89.71	1639	2
11N20SISO	Ant1	2437	0.61	0.67	91.04	1639	2
11N40SISO	Ant1	2437	0.61	0.67	91.04	1639	2

Test Graphs

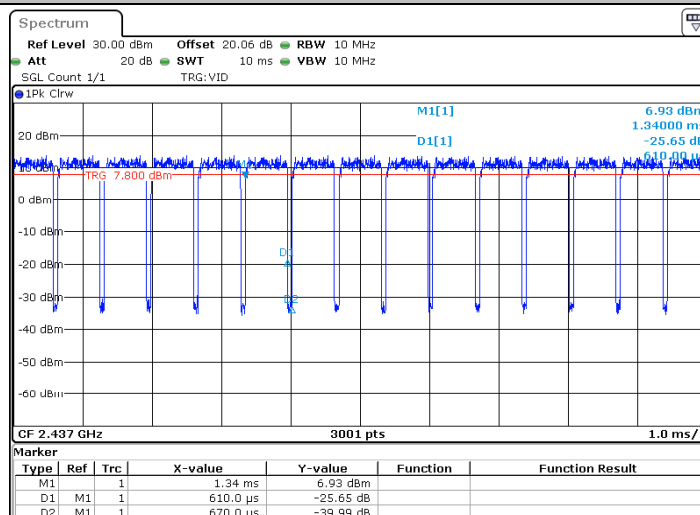


11N20SISO_Ant1_2437



ProjectNo.:2501S33474E-RFTester:Lee.Li
Date: 7.MAY.2025 02:10:52

11N40SISO_Ant1_2437



ProjectNo.:2501S33474E-RF Tester:Lee.Li
Date: 21.MAY.2025 19:02:03