



Appendix C

RF Test: General Information

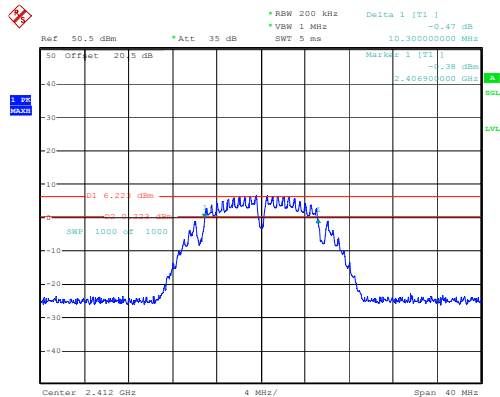
Project No.:	2501R08197E-RF		
EUT Number:	30LS-4		
Operating Mode:	Transmitting		
Teststandard	FCC 15.247/RSS-247		
Test Conditions:	Temperature: <u>25~28.3</u> °C	Relative Humidity: <u>45~58</u> %	ATM Pressure: <u>101</u> kPa
Test Engineer:	Lee Li, Cheeb Huang		
Test Date:	2025-4-23~2025-6-17		

6dB Emission Bandwidth

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	ANT1	2412	10.300	≥ 0.5	Pass
		2437	10.300	≥ 0.5	Pass
		2462	10.300	≥ 0.5	Pass
	ANT2	2412	10.300	≥ 0.5	Pass
		2437	10.300	≥ 0.5	Pass
		2462	10.250	≥ 0.5	Pass
802.11g	ANT1	2412	16.100	≥ 0.5	Pass
		2437	16.250	≥ 0.5	Pass
		2462	16.250	≥ 0.5	Pass
	ANT2	2412	16.150	≥ 0.5	Pass
		2437	16.100	≥ 0.5	Pass
		2462	16.200	≥ 0.5	Pass
802.11n20	ANT1	2412	17.250	≥ 0.5	Pass
		2437	17.200	≥ 0.5	Pass
		2462	17.300	≥ 0.5	Pass
	ANT2	2412	17.250	≥ 0.5	Pass
		2437	17.250	≥ 0.5	Pass
		2462	17.350	≥ 0.5	Pass
802.11n40	ANT1	2422	35.600	≥ 0.5	Pass
		2437	35.800	≥ 0.5	Pass
		2452	36.100	≥ 0.5	Pass
	ANT2	2422	36	≥ 0.5	Pass
		2437	35.900	≥ 0.5	Pass
		2452	36	≥ 0.5	Pass
802.11ax20	ANT1	2412	18.400	≥ 0.5	Pass
		2437	18.500	≥ 0.5	Pass
		2462	18.850	≥ 0.5	Pass
	ANT2	2412	18.300	≥ 0.5	Pass
		2437	18.250	≥ 0.5	Pass
		2462	18.650	≥ 0.5	Pass
802.11ax40	ANT1	2422	37	≥ 0.5	Pass
		2437	37.600	≥ 0.5	Pass
		2452	37.700	≥ 0.5	Pass
	ANT2	2422	37.700	≥ 0.5	Pass
		2437	37.600	≥ 0.5	Pass
		2452	37.100	≥ 0.5	Pass

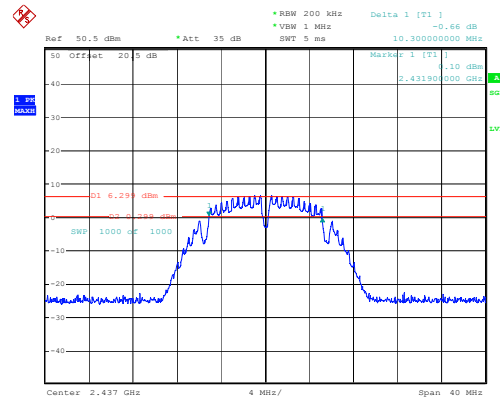
ANT1

802.11b_2412MHz_ANT1



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
 Date: 17.JUN.2025 13:50:31

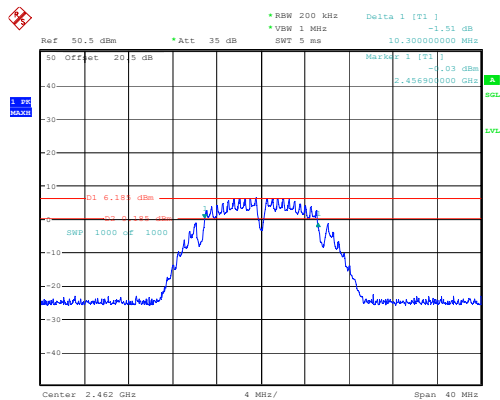
802.11b_2437MHz_ANT1



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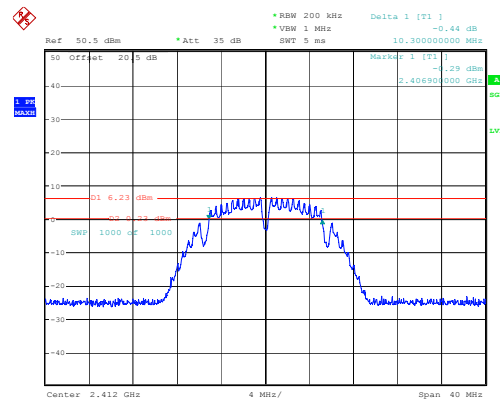
ANT2

802.11b_2462MHz_ANT1



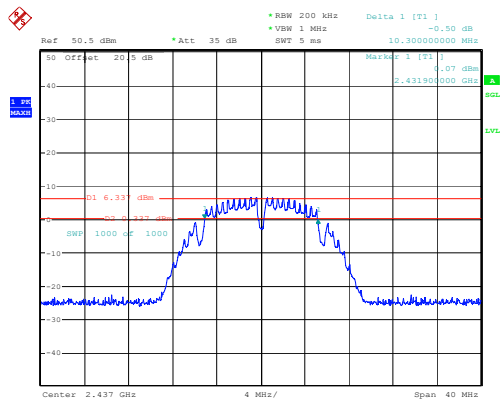
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802.11b_2412MHz_ANT2



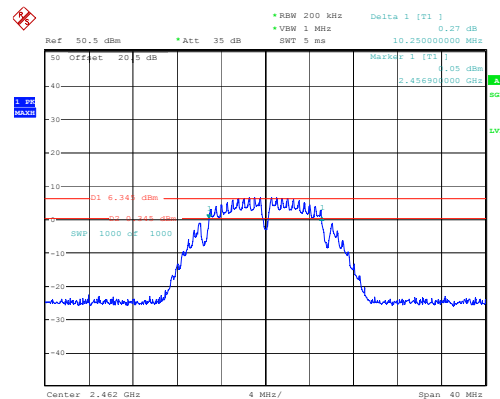
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802.11b_2437MHz_ANT2



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
 Date: 17.JUN.2025 14:05:10

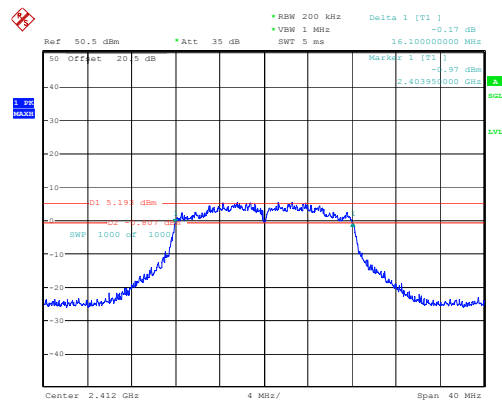
802.11b_2462MHz_ANT2



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
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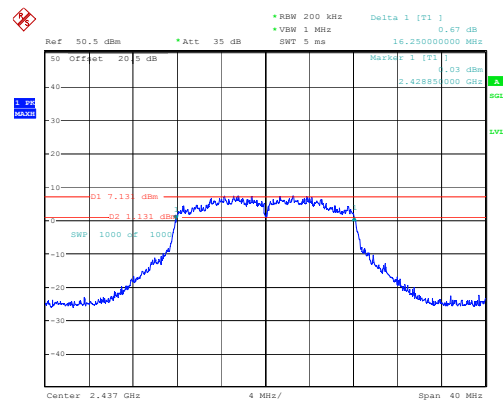
ANT1

802.11g_2412MHz_ANT1



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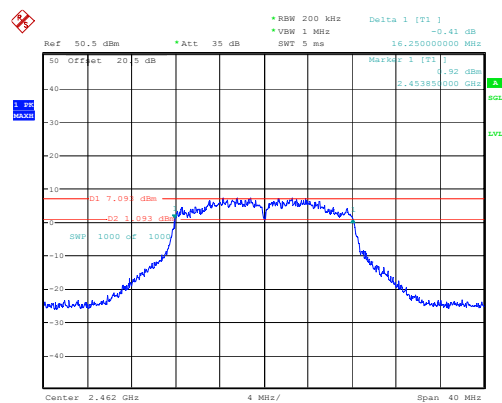
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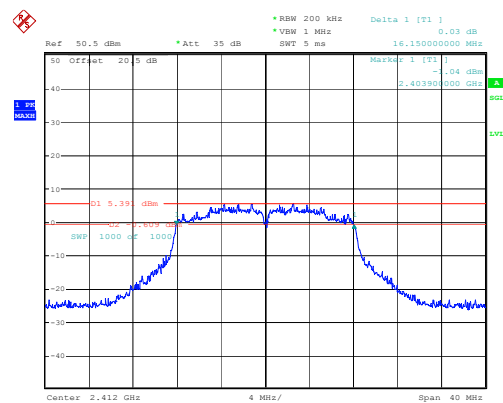
ANT2

802.11g_2462MHz_ANT1



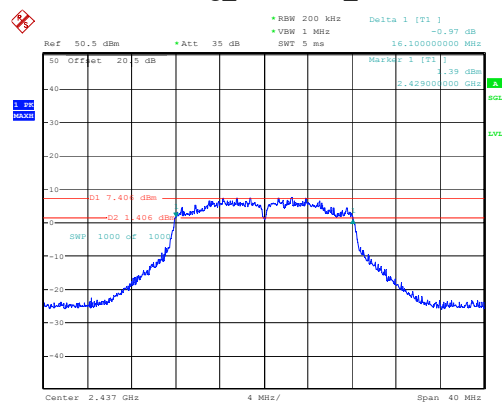
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802.11g_2412MHz_ANT2



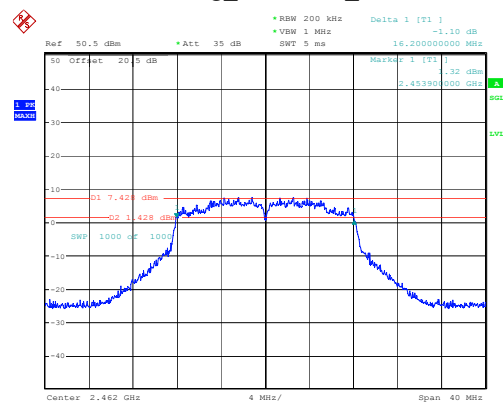
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802.11g_2437MHz_ANT2



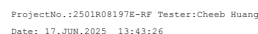
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802.11g_2462MHz_ANT2



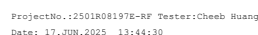
ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 14:08:06

802.11n20 2412MHz ANT1



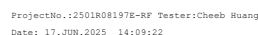
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Date: 17 JUN 2025 13:43:59

802.11n20 2462MHz ANT1

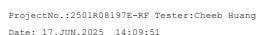


ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17 JUN 2025 14:08:48

802.11n20 2437MHz ANT2

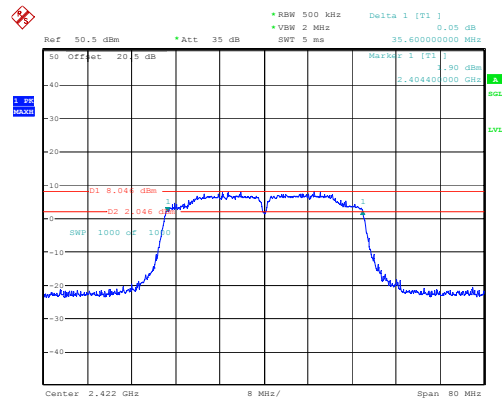


802.11n20 2462MHz ANT2



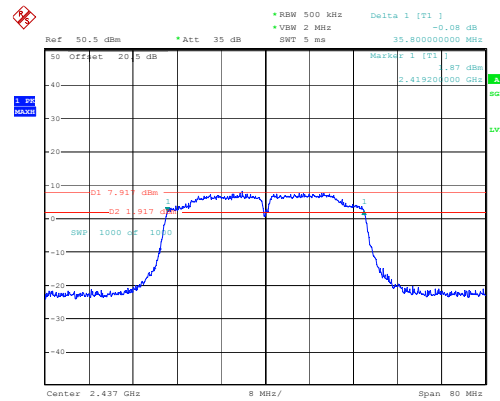
ANT1

802.11n40_2422MHz_ANT1



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 13:45:07

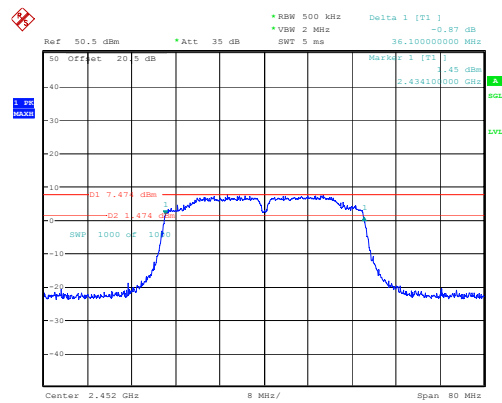
802.11n40_2437MHz_ANT1



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 13:48:08

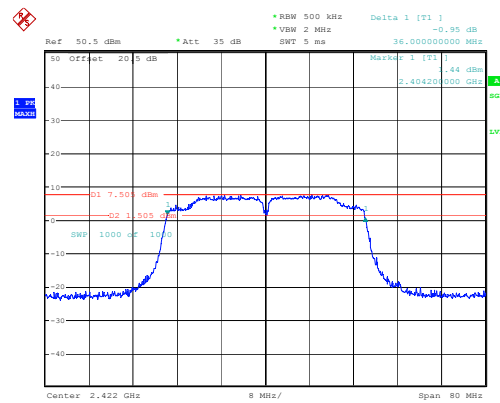
ANT2

802.11n40_2452MHz_ANT1



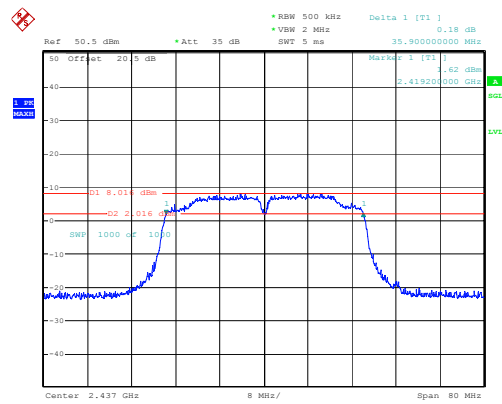
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Date: 17.JUN.2025 13:46:35

802.11n40_2422MHz_ANT2



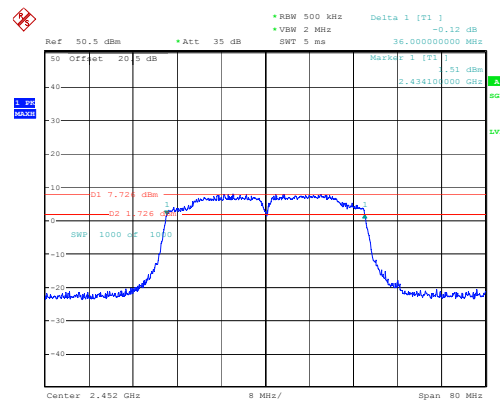
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802.11n40_2437MHz_ANT2



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 14:11:08

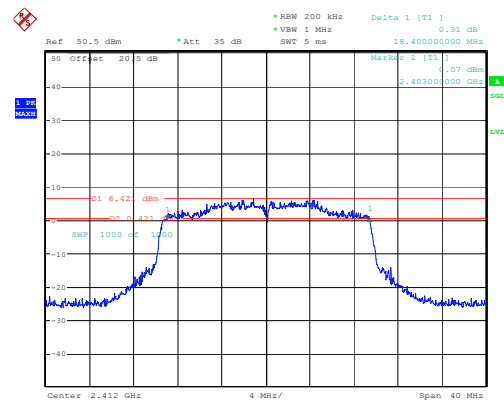
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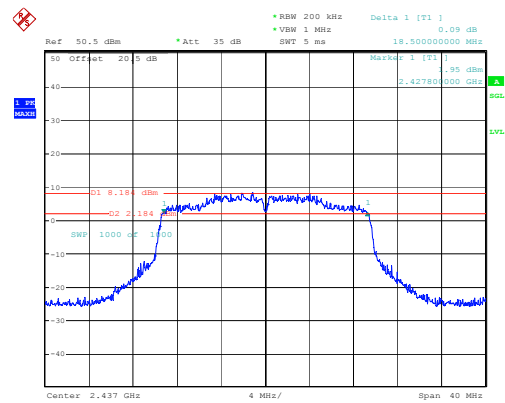
ANT1

802.11ax20_2412MHz_RU_Full_ANT1



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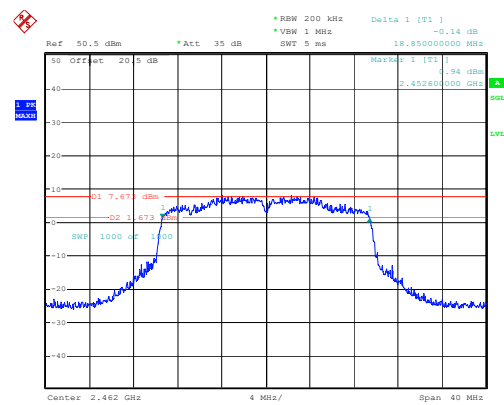
802.11ax20_2437MHz_RU_Full_ANT1



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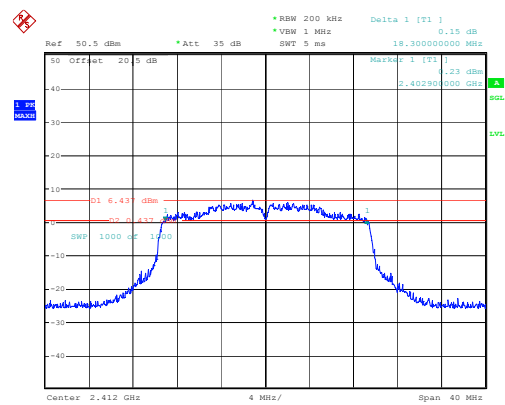
ANT2

802.11ax20_2462MHz_RU_Full_ANT1



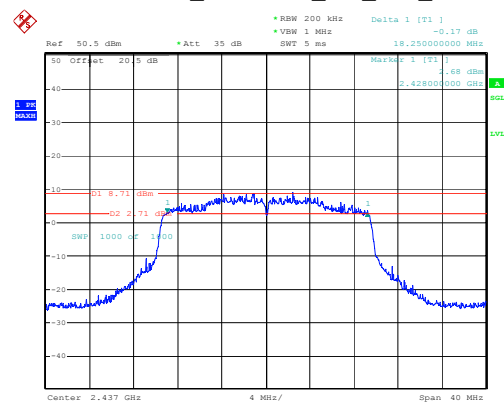
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802.11ax20_2412MHz_RU_Full_ANT2



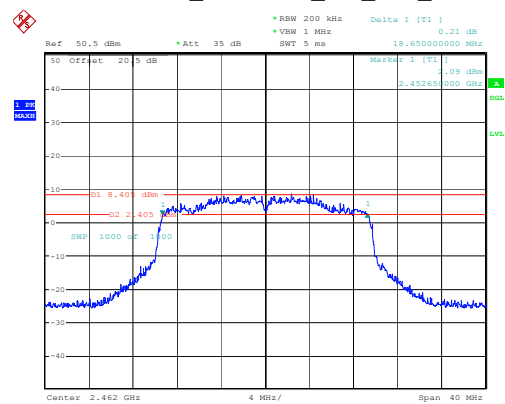
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802.11ax20_2437MHz_RU_Full_ANT2



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 14:15:14

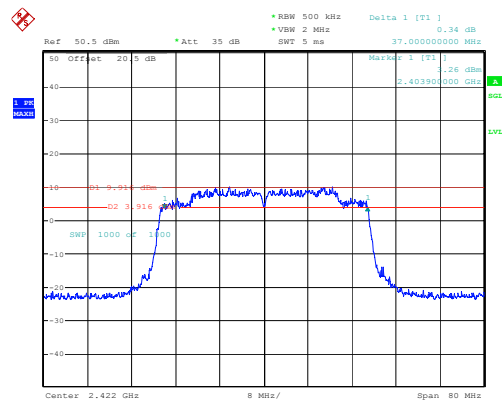
802.11ax20_2462MHz_RU_Full_ANT2



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
Date: 17.JUN.2025 14:15:48

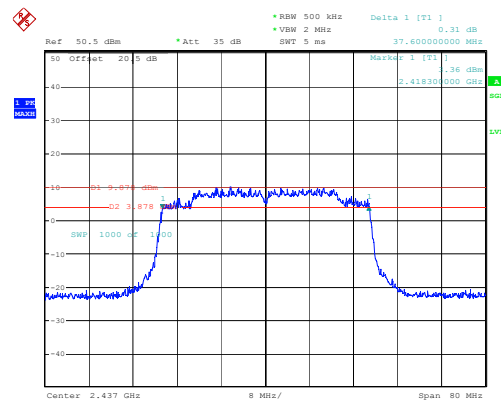
ANT1

802.11ax40_2422MHz_RU_Full_ANT1



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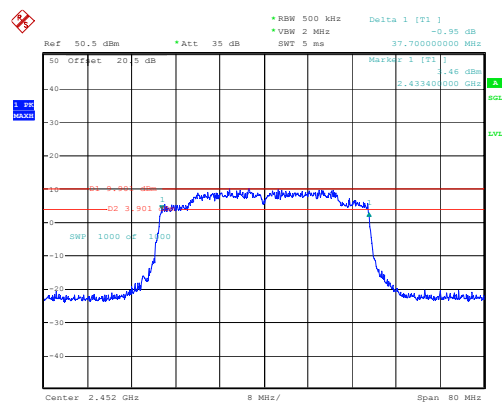
802.11ax40_2437MHz_RU_Full_ANT1



ProjectNo.:2501R08197E-RF Tester:Cheeb Huang
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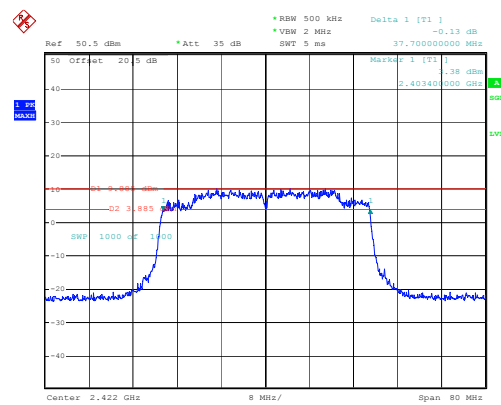
ANT2

802.11ax40_2452MHz_RU_Full_ANT1



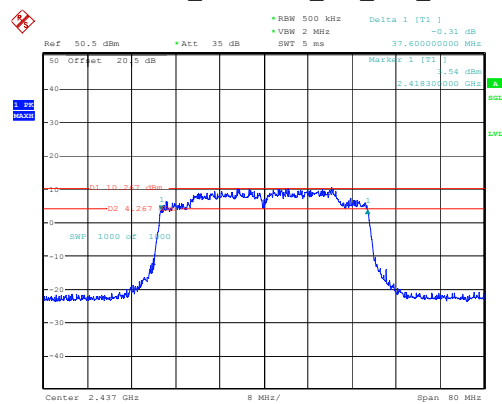
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802.11ax40_2422MHz_RU_Full_ANT2



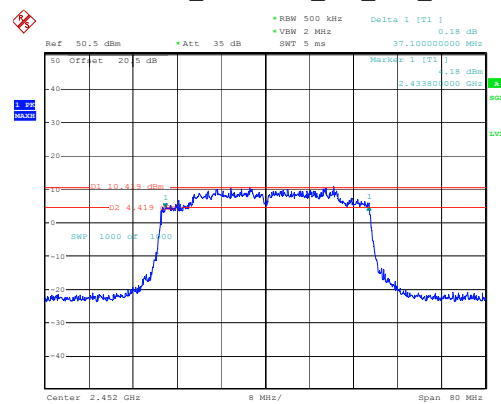
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Date: 17.JUN.2025 14:16:31

802.11ax40_2437MHz_RU_Full_ANT2



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Date: 17.JUN.2025 14:17:06

802.11ax40_2452MHz_RU_Full_ANT2



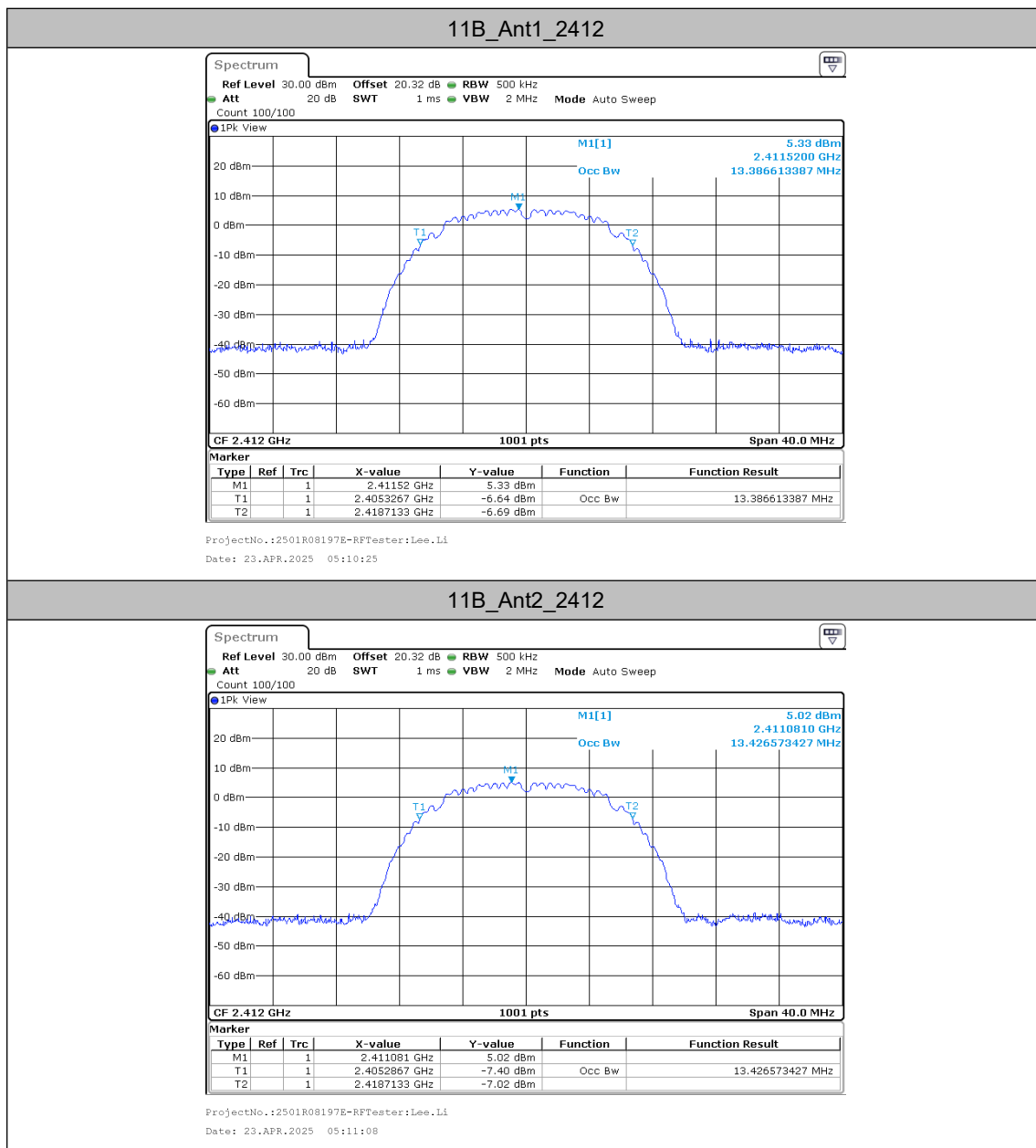
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Date: 17.JUN.2025 14:17:40

Occupied Channel Bandwidth

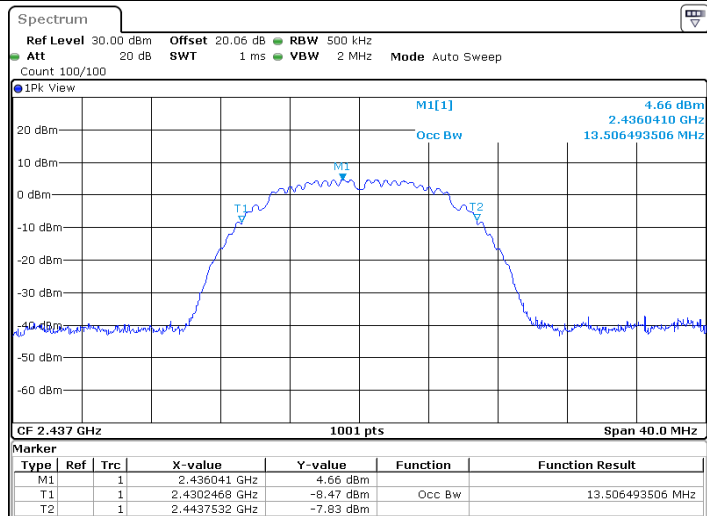
Test Result

Test Mode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	13.387	2405.3267	2418.7133	---	---
	Ant2	2412	13.427	2405.2867	2418.7133	---	---
	Ant1	2437	13.506	2430.2468	2443.7532	---	---
	Ant2	2437	13.506	2430.2468	2443.7532	---	---
	Ant1	2462	13.427	2455.2867	2468.7133	---	---
	Ant2	2462	13.467	2455.2867	2468.7532	---	---
11G	Ant1	2412	17.343	2403.3686	2420.7113	---	---
	Ant2	2412	17.303	2403.3287	2420.6314	---	---
	Ant1	2437	17.463	2428.2488	2445.7113	---	---
	Ant2	2437	17.423	2428.2887	2445.7113	---	---
	Ant1	2462	17.383	2453.3287	2470.7113	---	---
	Ant2	2462	17.343	2453.3287	2470.6713	---	---
11N20MIMO	Ant1	2412	18.302	2402.8492	2421.1508	---	---
	Ant2	2412	18.262	2402.8891	2421.1508	---	---
	Ant1	2437	18.382	2427.8092	2446.1908	---	---
	Ant2	2437	18.342	2427.8092	2446.1508	---	---
	Ant1	2462	18.342	2452.8492	2471.1908	---	---
	Ant2	2462	18.262	2452.8891	2471.1508	---	---
11N40MIMO	Ant1	2422	36.204	2404.0180	2440.2218	---	---
	Ant2	2422	36.204	2404.0180	2440.2218	---	---
	Ant1	2437	36.284	2419.0180	2455.3017	---	---
	Ant2	2437	36.204	2419.0180	2455.2218	---	---
	Ant1	2452	36.124	2434.0979	2470.2218	---	---
	Ant2	2452	36.124	2434.0979	2470.2218	---	---
11AX20MIMO	Ant1	2412	19.101	2402.4496	2421.5504	---	---
	Ant2	2412	19.061	2402.4895	2421.5504	---	---
	Ant1	2437	19.061	2427.4496	2446.5105	---	---
	Ant2	2437	19.101	2427.4496	2446.5504	---	---
	Ant1	2462	19.101	2452.4496	2471.5504	---	---
	Ant2	2462	19.101	2452.4496	2471.5504	---	---
11AX40MIMO	Ant1	2422	37.642	2403.2987	2440.9411	---	---
	Ant2	2422	37.642	2403.2188	2440.8611	---	---
	Ant1	2437	37.722	2418.2188	2455.9411	---	---
	Ant2	2437	37.722	2418.2987	2456.0210	---	---
	Ant1	2452	37.722	2433.2987	2471.0210	---	---
	Ant2	2452	37.562	2433.2987	2470.8611	---	---

Test Graphs

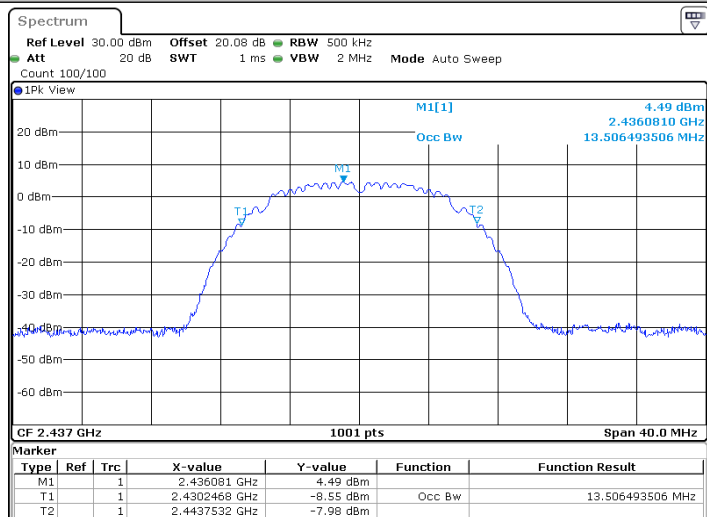


11B_Ant1_2437



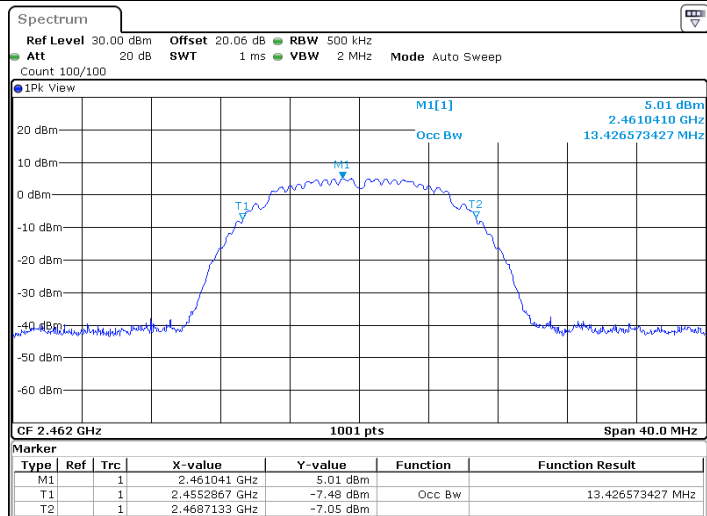
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 Date: 23.APR.2025 05:08:45

11B_Ant2_2437



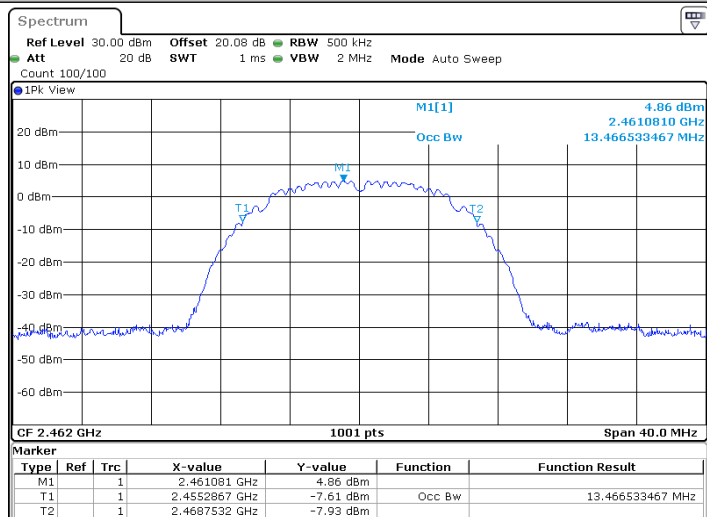
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11B_Ant1_2462



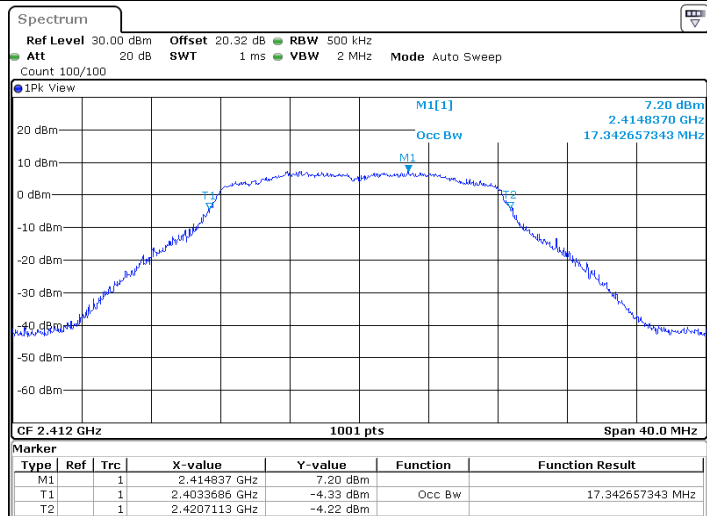
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11B_Ant2_2462



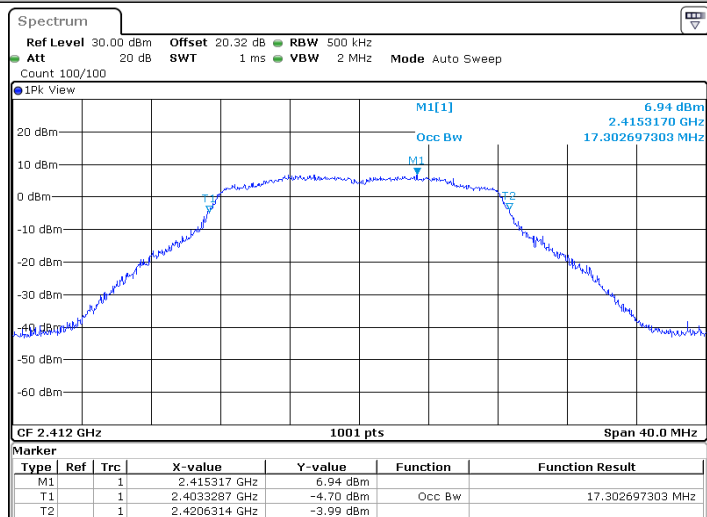
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11G_Ant1_2412



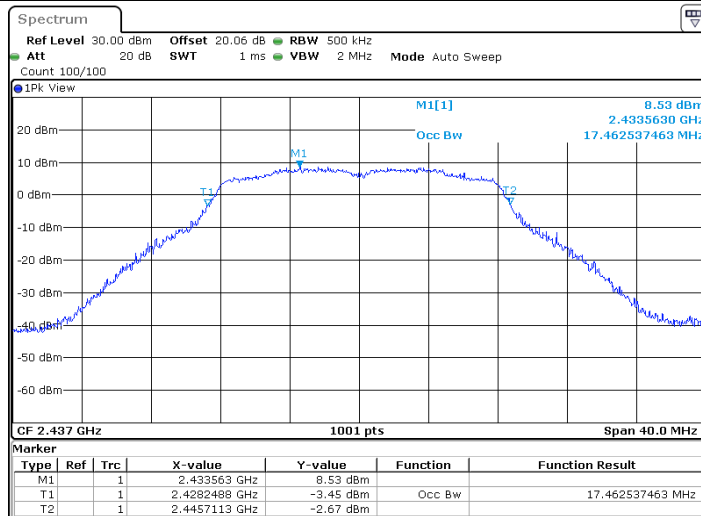
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11G_Ant2_2412



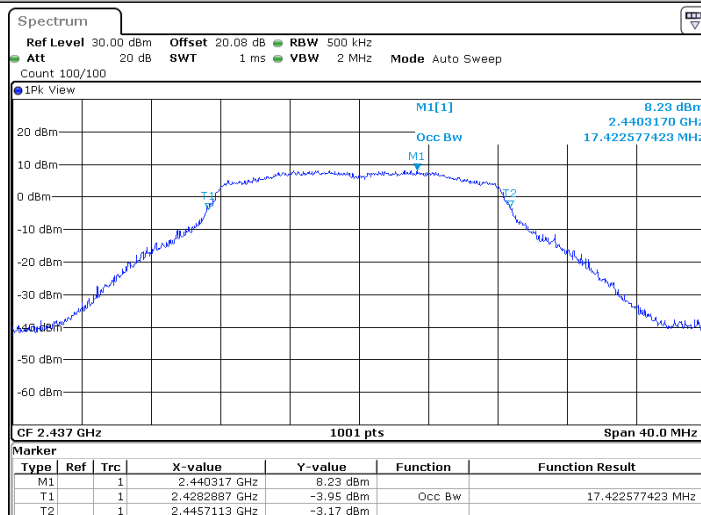
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11G_Ant1_2437



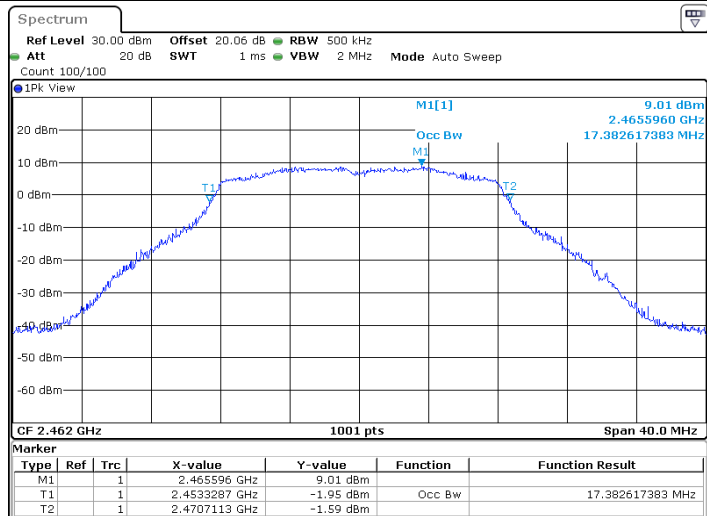
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11G_Ant2_2437



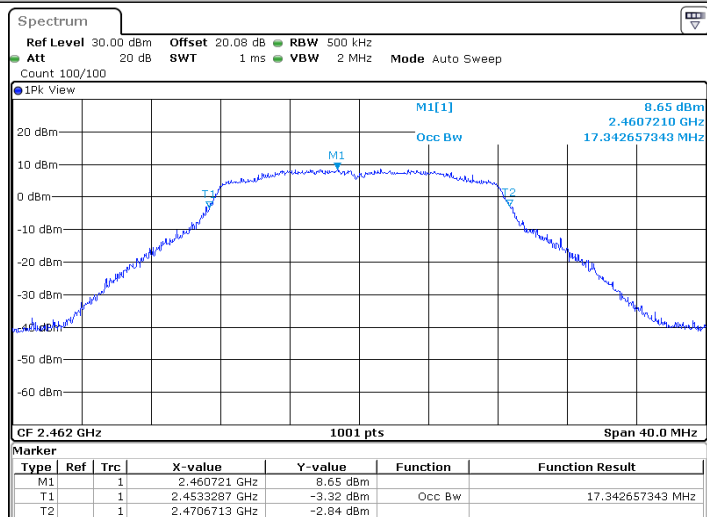
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11G_Ant1_2462



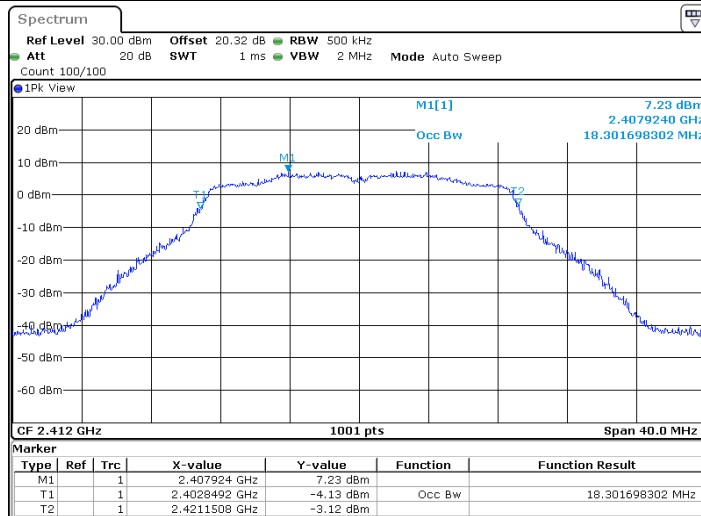
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11G_Ant2_2462



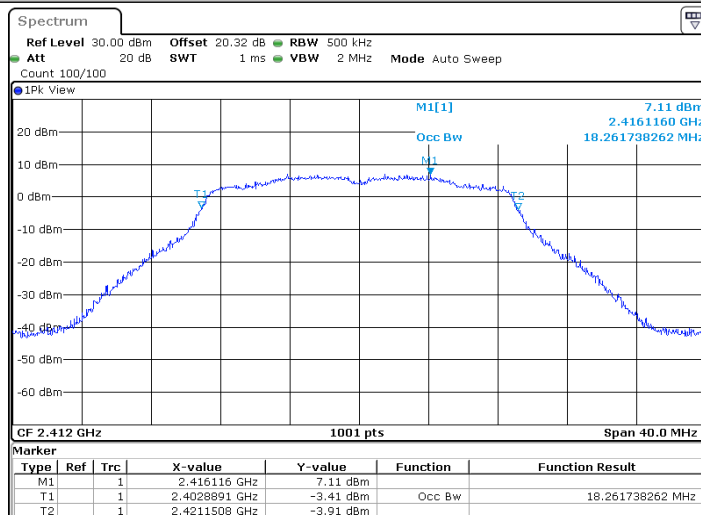
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11N20MIMO_Ant1_2412



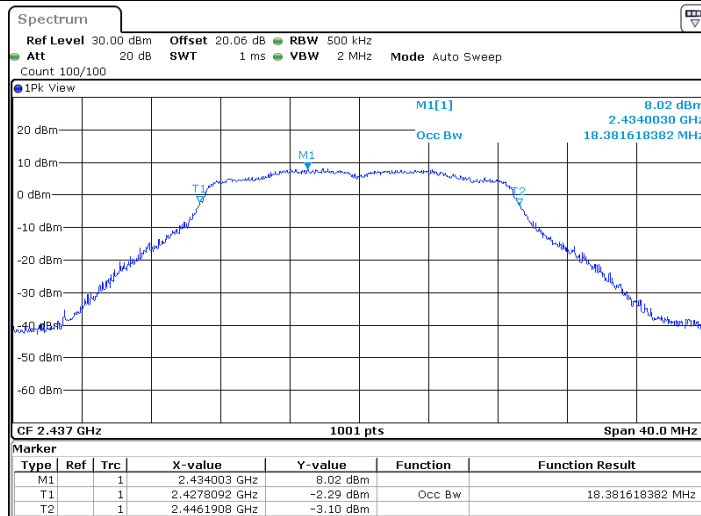
ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 05:24:50

11N20MIMO_Ant2_2412



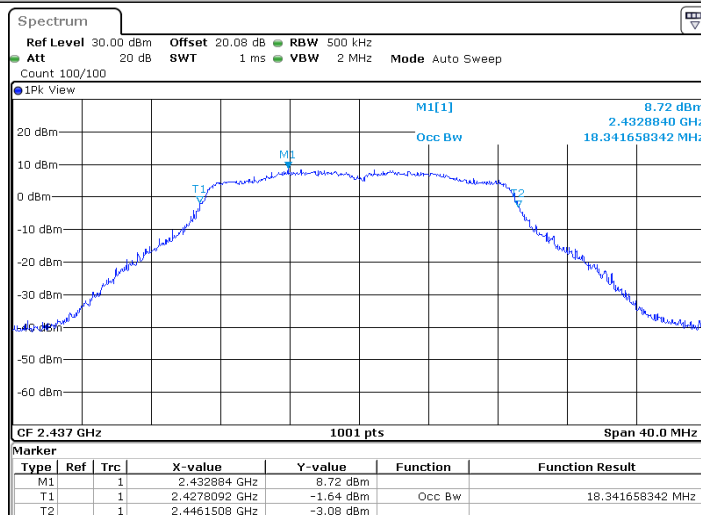
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 Date: 23.APR.2025 05:25:33

11N20MIMO_Ant1_2437



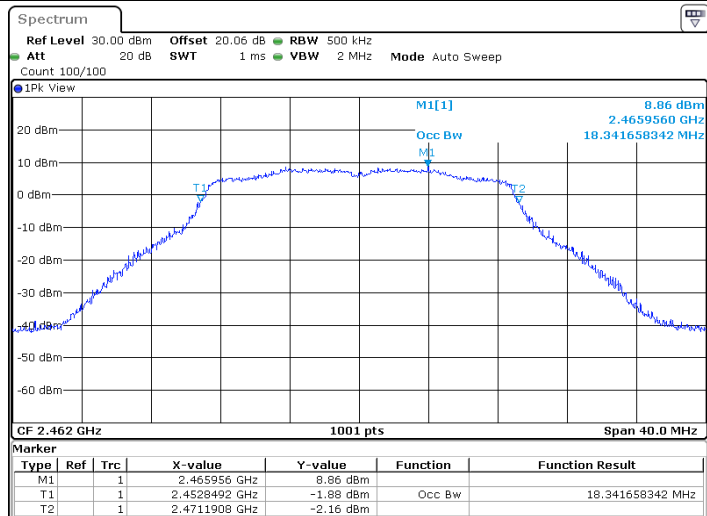
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11N20MIMO_Ant2_2437



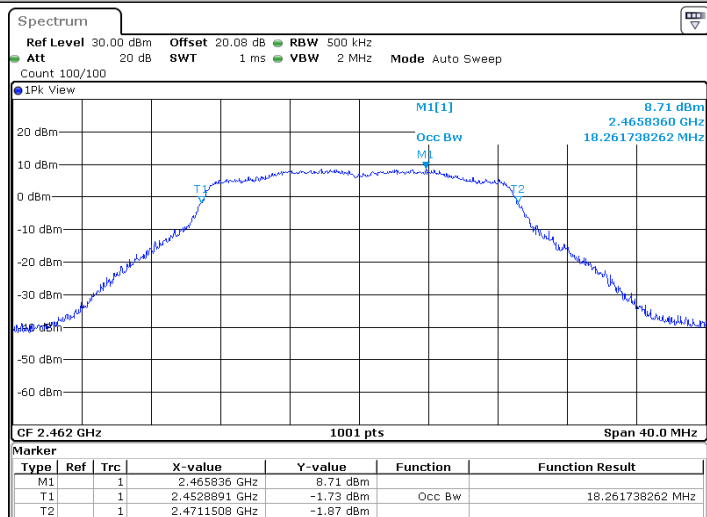
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11N20MIMO_Ant1_2462



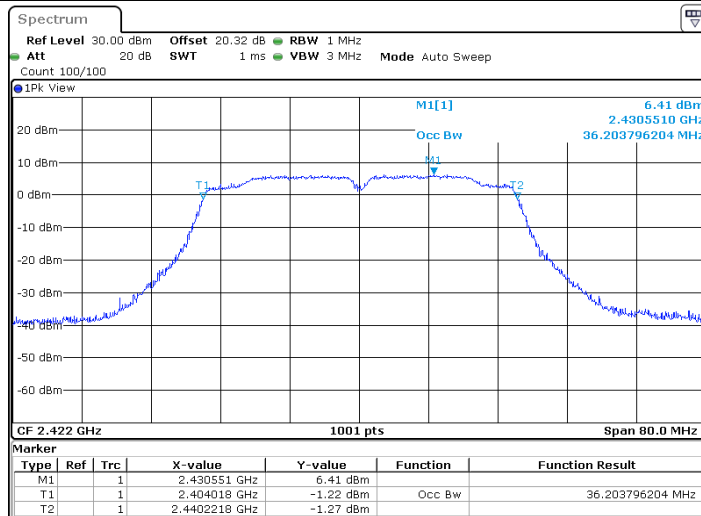
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11N20MIMO_Ant2_2462



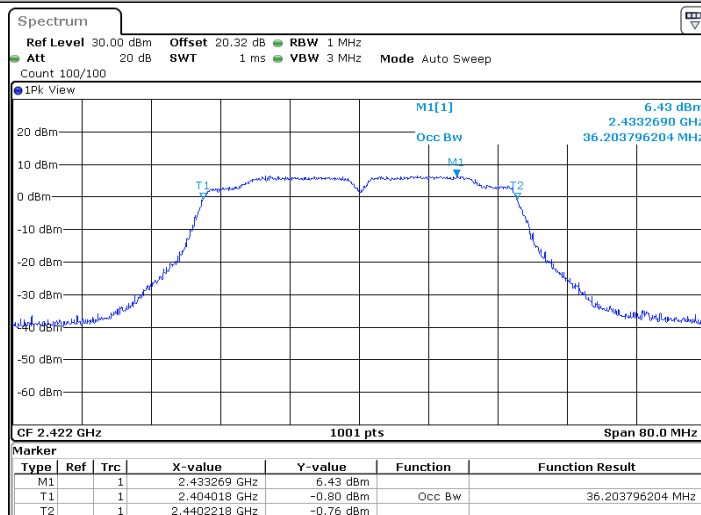
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11N40MIMO_Ant1_2422



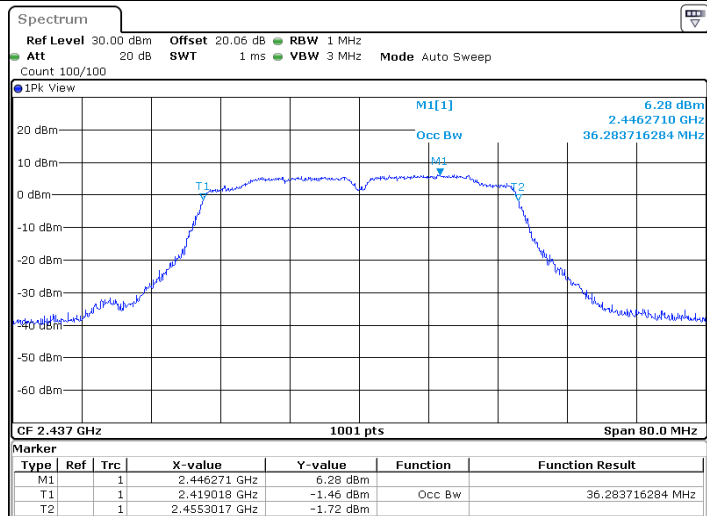
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 Date: 6.JUN.2025 02:51:11

11N40MIMO_Ant2_2422



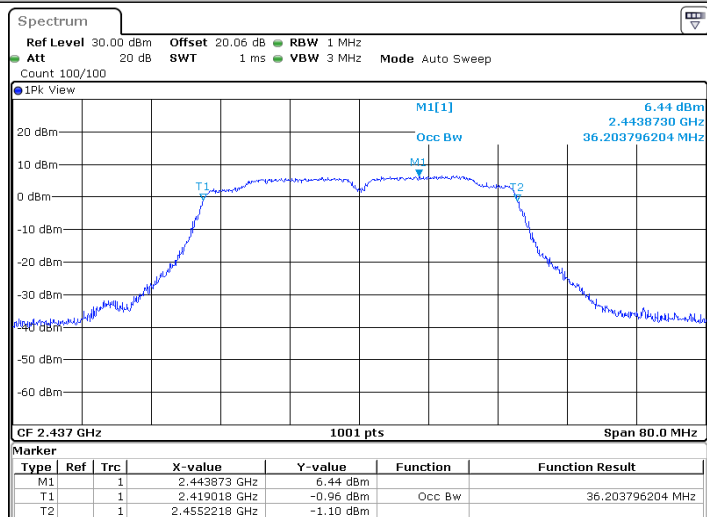
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11N40MIMO_Ant1_2437



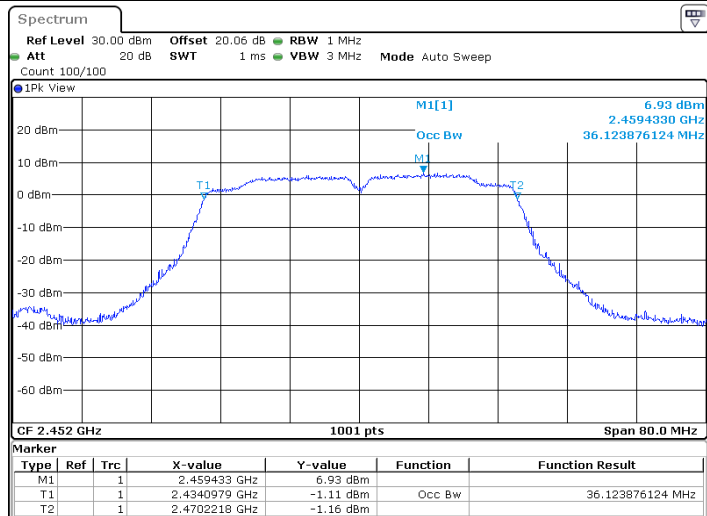
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11N40MIMO_Ant2_2437



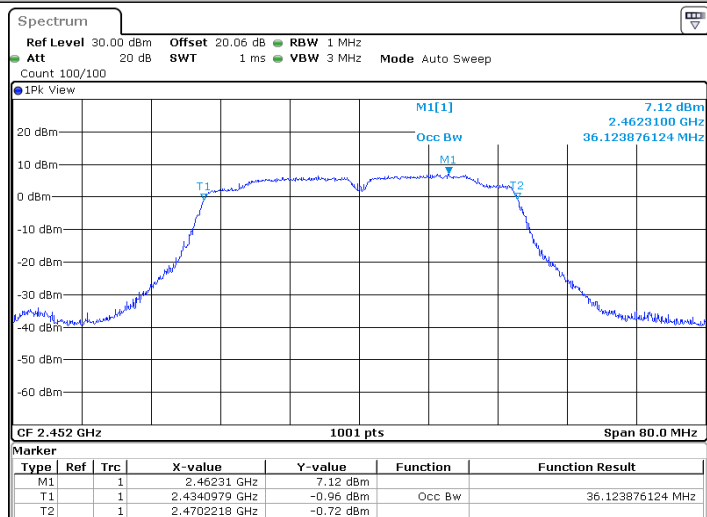
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11N40MIMO_Ant1_2452



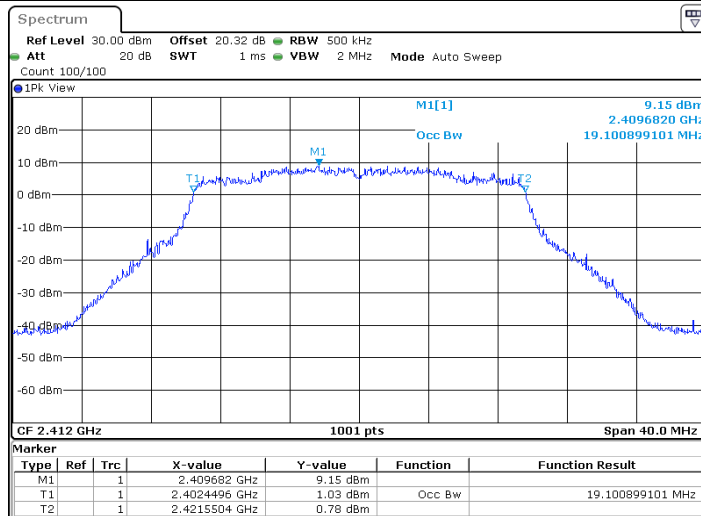
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11N40MIMO_Ant2_2452



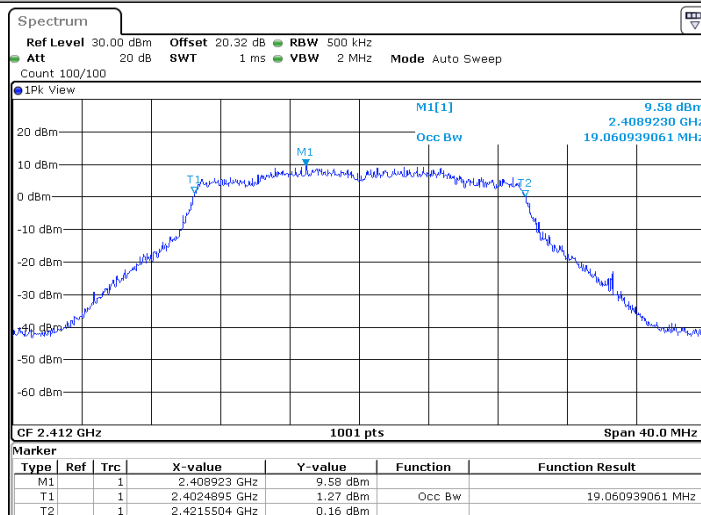
ProjectNo.:2501R08197E-RF Tester:Lee.Li
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11AX20MIMO_Ant1_2412



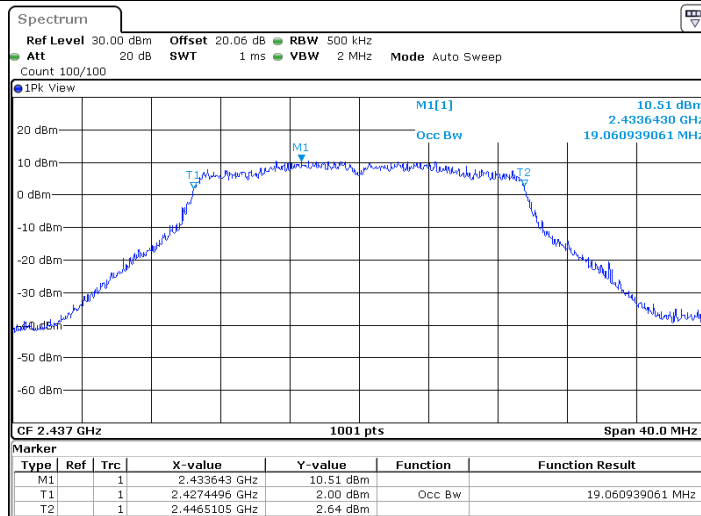
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11AX20MIMO_Ant2_2412



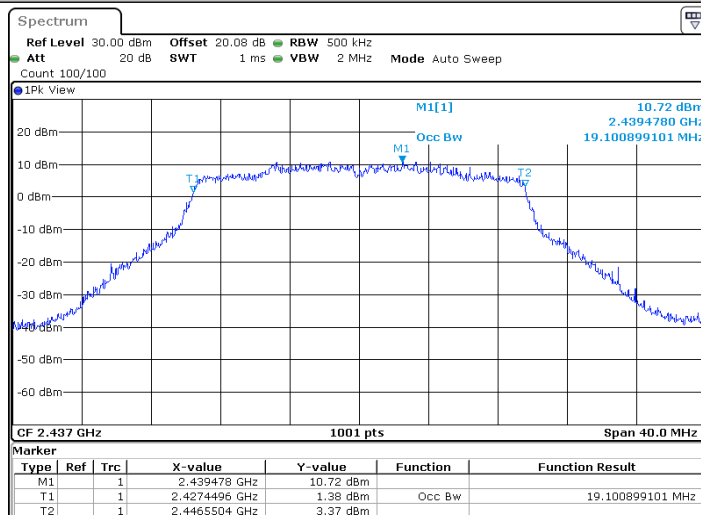
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11AX20MIMO_Ant1_2437



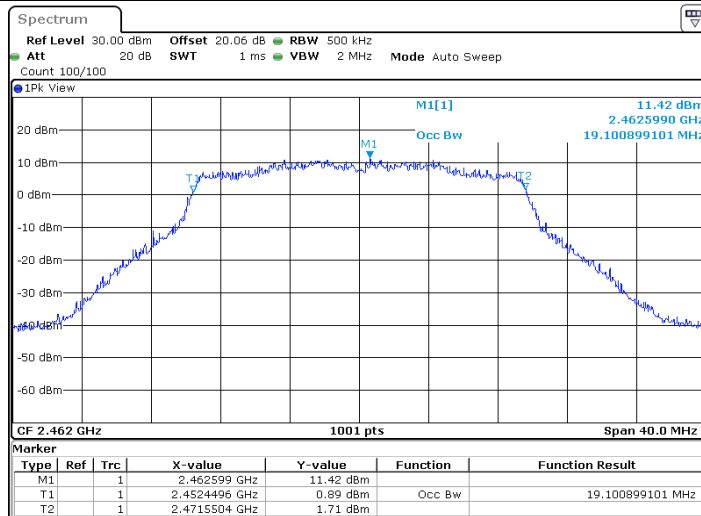
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11AX20MIMO_Ant2_2437



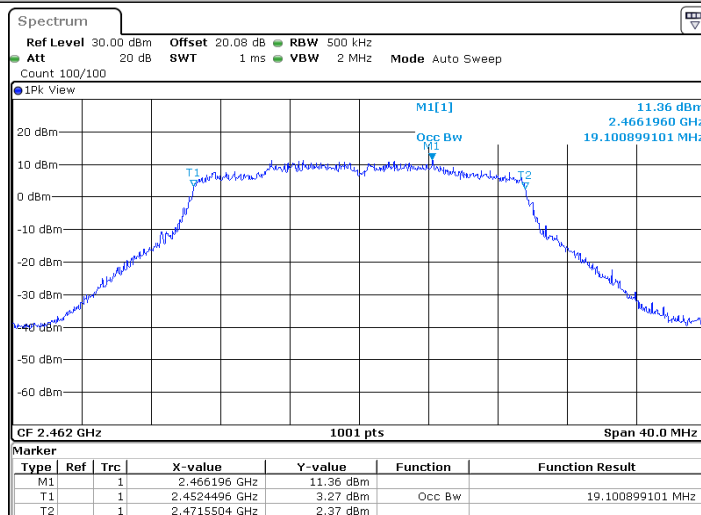
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11AX20MIMO_Ant1_2462



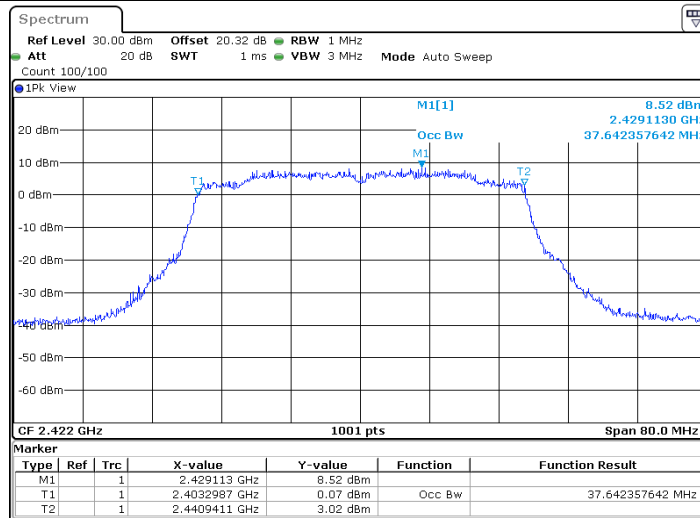
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11AX20MIMO_Ant2_2462



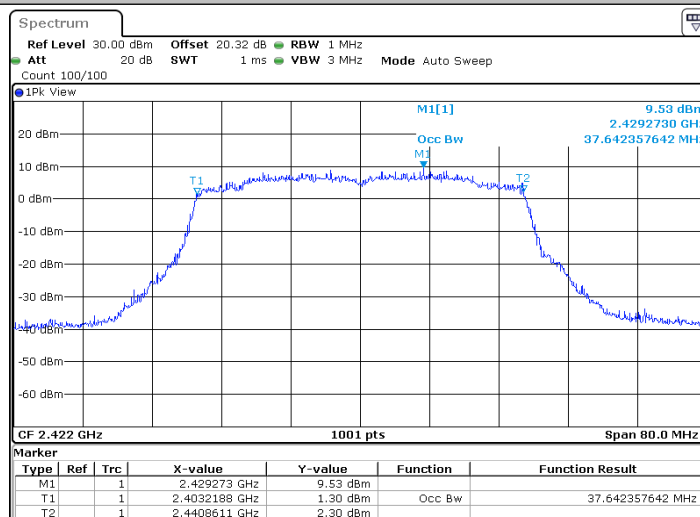
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 Date: 23.APR.2025 05:44:00

11AX40MIMO_Ant1_2422



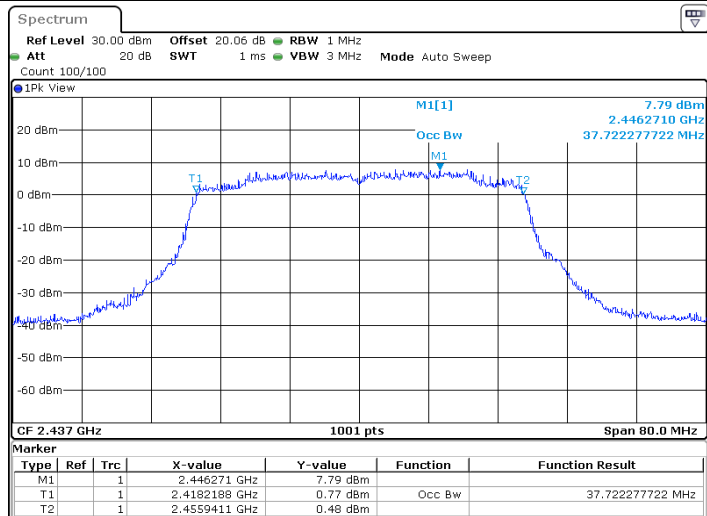
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11AX40MIMO_Ant2_2422



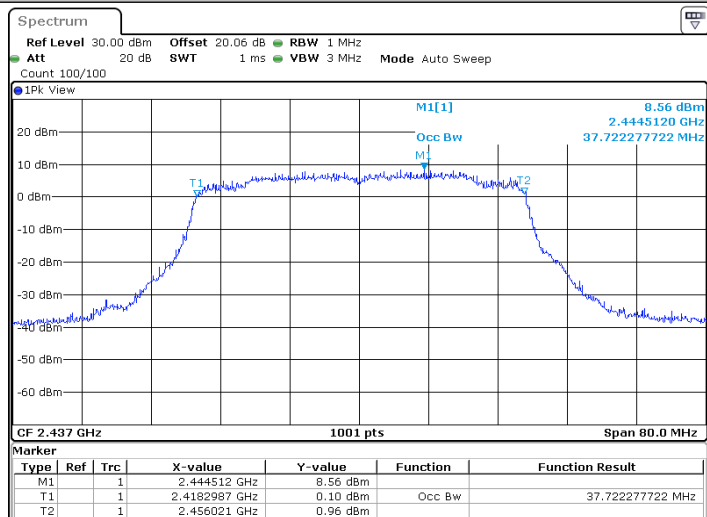
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11AX40MIMO_Ant1_2437



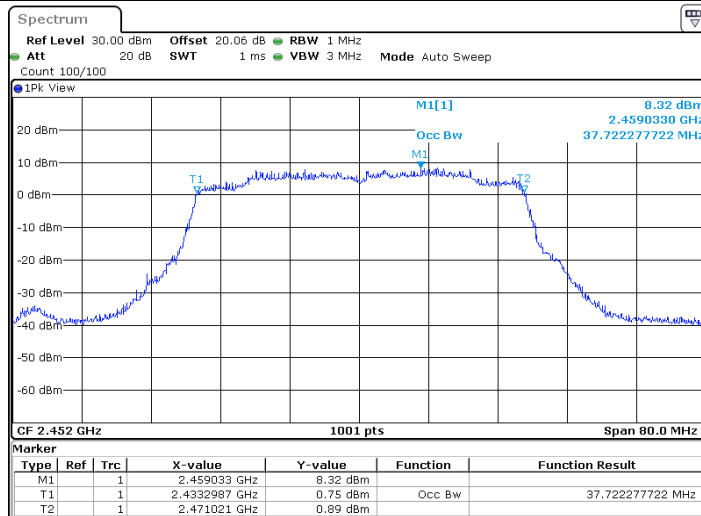
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11AX40MIMO_Ant2_2437



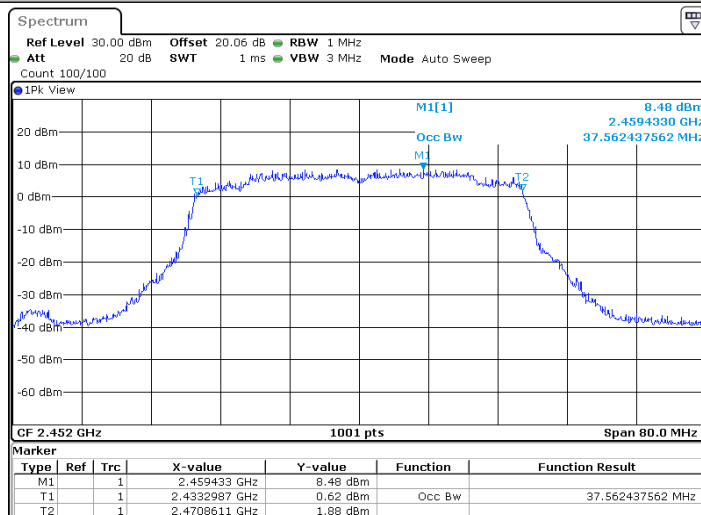
ProjectNo.:2501R08197E-RF Tester:Lee.Li
 Date: 6.JUN.2025 03:19:01

11AX40MIMO_Ant1_2452



ProjectNo.:2501R08197E-RF Tester:Lee.Li
Date: 6.JUN.2025 03:20:05

11AX40MIMO_Ant2_2452



ProjectNo.:2501R08197E-RF Tester:Lee.Li
Date: 6.JUN.2025 03:21:32

Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency [MHz]	Peak Power [dBm]	Conducted Limit [dBm]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B	Ant1	2412	16.92	≤30.00	19.71	≤36.00	PASS
	Ant2	2412	16.62	≤30.00	18.61	≤36.00	PASS
	Ant1	2437	16.27	≤30.00	19.06	≤36.00	PASS
	Ant2	2437	16.12	≤30.00	18.11	≤36.00	PASS
	Ant1	2462	16.61	≤30.00	19.40	≤36.00	PASS
	Ant2	2462	16.47	≤30.00	18.46	≤36.00	PASS
11G	Ant1	2412	20.28	≤30.00	23.07	≤36.00	PASS
	Ant2	2412	20.01	≤30.00	22.00	≤36.00	PASS
	Ant1	2437	21.59	≤30.00	24.38	≤36.00	PASS
	Ant2	2437	21.52	≤30.00	23.51	≤36.00	PASS
	Ant1	2462	21.89	≤30.00	24.68	≤36.00	PASS
	Ant2	2462	21.88	≤30.00	23.87	≤36.00	PASS
11N20MIM O	Ant1	2412	20.01	≤30.00	22.80	≤36.00	PASS
	Ant2	2412	19.85	≤30.00	21.84	≤36.00	PASS
	total	2412	22.94	≤30.00	28.35	≤36.00	PASS
	Ant1	2437	21.28	≤30.00	24.07	≤36.00	PASS
	Ant2	2437	21.39	≤30.00	23.38	≤36.00	PASS
	total	2437	24.35	≤30.00	29.76	≤36.00	PASS
	Ant1	2462	21.62	≤30.00	24.41	≤36.00	PASS
	Ant2	2462	21.79	≤30.00	23.78	≤36.00	PASS
	total	2462	24.72	≤30.00	30.13	≤36.00	PASS
11N40MIM O	Ant1	2422	19.39	≤30.00	22.18	≤36.00	PASS
	Ant2	2422	19.67	≤30.00	21.66	≤36.00	PASS
	total	2422	22.54	≤30.00	27.95	≤36.00	PASS
	Ant1	2437	19.14	≤30.00	21.93	≤36.00	PASS
	Ant2	2437	19.49	≤30.00	21.48	≤36.00	PASS
	total	2437	22.33	≤30.00	27.74	≤36.00	PASS
	Ant1	2452	19.23	≤30.00	22.02	≤36.00	PASS
	Ant2	2452	19.61	≤30.00	21.60	≤36.00	PASS
	total	2452	22.43	≤30.00	27.84	≤36.00	PASS
11AX20MI MO	Ant1	2412	20.53	≤30.00	23.32	≤36.00	PASS
	Ant2	2412	20.39	≤30.00	22.38	≤36.00	PASS
	total	2412	23.47	≤30.00	28.88	≤36.00	PASS
	Ant1	2437	21.97	≤30.00	24.76	≤36.00	PASS
	Ant2	2437	22.11	≤30.00	24.10	≤36.00	PASS
	total	2437	25.05	≤30.00	30.46	≤36.00	PASS

	Ant1	2462	22.14	≤30.00	24.93	≤36.00	PASS
	Ant2	2462	22.22	≤30.00	24.21	≤36.00	PASS
	total	2462	25.19	≤30.00	30.60	≤36.00	PASS
11AX40MI MO	Ant1	2422	19.84	≤30.00	22.63	≤36.00	PASS
	Ant2	2422	20.24	≤30.00	22.23	≤36.00	PASS
	total	2422	23.05	≤30.00	28.46	≤36.00	PASS
	Ant1	2437	19.49	≤30.00	22.28	≤36.00	PASS
	Ant2	2437	19.96	≤30.00	21.95	≤36.00	PASS
	total	2437	22.74	≤30.00	28.15	≤36.00	PASS
	Ant1	2452	19.61	≤30.00	22.40	≤36.00	PASS
	Ant2	2452	19.98	≤30.00	21.97	≤36.00	PASS
	total	2452	22.81	≤30.00	28.22	≤36.00	PASS

Note: For 802.11n/ax modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

G_k is the gain in dBi of the k_{th} antenna.

ANT1 Gain:	2.79	dBi	Directional gain:	5.41	dBi
ANT2 Gain:	1.99	dBi			

Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-8.95	≤8.00	PASS
	Ant2	2412	-9.24	≤8.00	PASS
	Ant1	2437	-9.63	≤8.00	PASS
	Ant2	2437	-9.75	≤8.00	PASS
	Ant1	2462	-9.32	≤8.00	PASS
	Ant2	2462	-9.43	≤8.00	PASS
11G	Ant1	2412	-11.05	≤8.00	PASS
	Ant2	2412	-11.23	≤8.00	PASS
	Ant1	2437	-8.70	≤8.00	PASS
	Ant2	2437	-10.12	≤8.00	PASS
	Ant1	2462	-9.70	≤8.00	PASS
	Ant2	2462	-9.45	≤8.00	PASS
11N20MIMO	Ant1	2412	-10.42	≤8.00	PASS
	Ant2	2412	-11.33	≤8.00	PASS
	total	2412	-7.84	≤8.00	PASS
	Ant1	2437	-9.18	≤8.00	PASS
	Ant2	2437	-9.76	≤8.00	PASS
	total	2437	-6.45	≤8.00	PASS
	Ant1	2462	-8.86	≤8.00	PASS
	Ant2	2462	-9.32	≤8.00	PASS
	total	2462	-6.07	≤8.00	PASS
11N40MIMO	Ant1	2422	-14.34	≤8.00	PASS
	Ant2	2422	-14.79	≤8.00	PASS
	total	2422	-11.55	≤8.00	PASS
	Ant1	2437	-14.34	≤8.00	PASS
	Ant2	2437	-14.64	≤8.00	PASS
	total	2437	-11.48	≤8.00	PASS
	Ant1	2452	-14.65	≤8.00	PASS
	Ant2	2452	-14.25	≤8.00	PASS
	total	2452	-11.44	≤8.00	PASS
11AX20MIMO	Ant1	2412	-10.64	≤8.00	PASS
	Ant2	2412	-12.32	≤8.00	PASS
	total	2412	-8.39	≤8.00	PASS
	Ant1	2437	-9.57	≤8.00	PASS
	Ant2	2437	-9.46	≤8.00	PASS
	total	2437	-6.50	≤8.00	PASS
	Ant1	2462	-9.31	≤8.00	PASS

	Ant2	2462	-9.92	≤8.00	PASS
	total	2462	-6.59	≤8.00	PASS
11AX40MIMO	Ant1	2422	-15.89	≤8.00	PASS
	Ant2	2422	-15.64	≤8.00	PASS
	total	2422	-12.75	≤8.00	PASS
	Ant1	2437	-15.94	≤8.00	PASS
	Ant2	2437	-15.92	≤8.00	PASS
	total	2437	-12.92	≤8.00	PASS
	Ant1	2452	-16.32	≤8.00	PASS
	Ant2	2452	-15.86	≤8.00	PASS
	total	2452	-13.07	≤8.00	PASS

Note: For 802.11n/ax modes, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01:

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

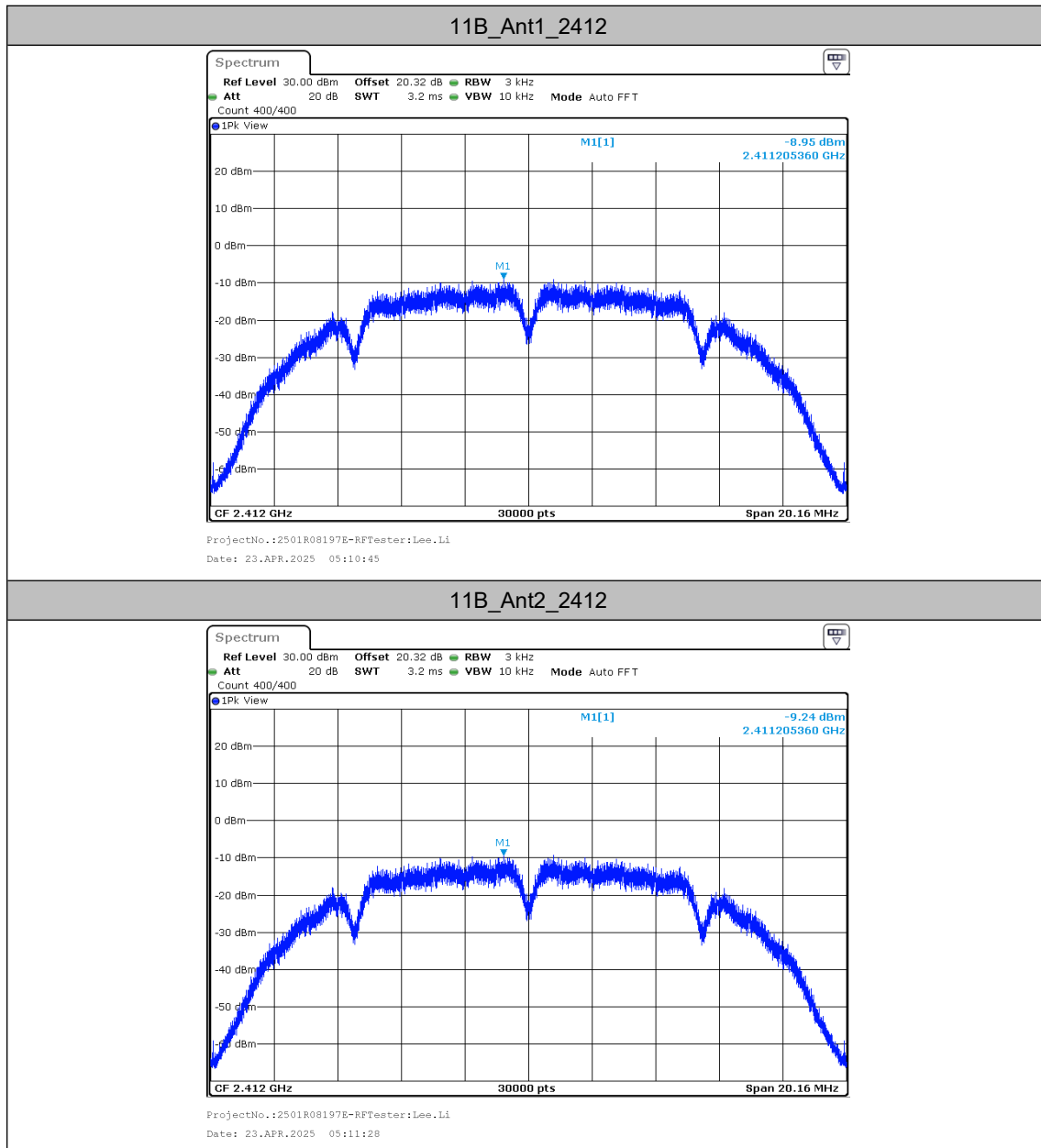
N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k_{th} antenna is being fed by spatial stream j , or zero if it is not;

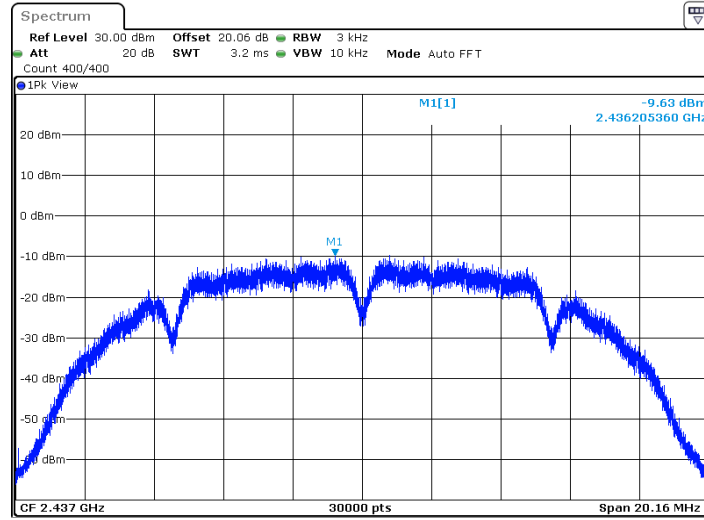
G_k is the gain in dBi of the k_{th} antenna.

ANT1 Gain:	2.79	dBi	Directional gain:	5.41	dBi
ANT2 Gain:	1.99	dBi			

Test Graphs

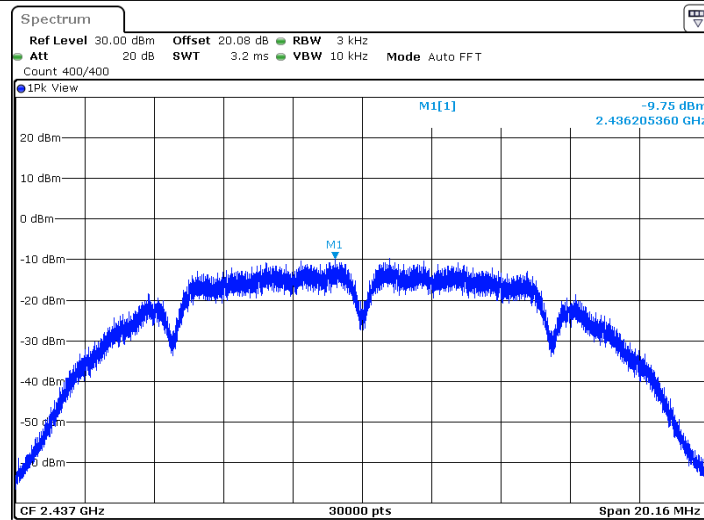


11B_Ant1_2437



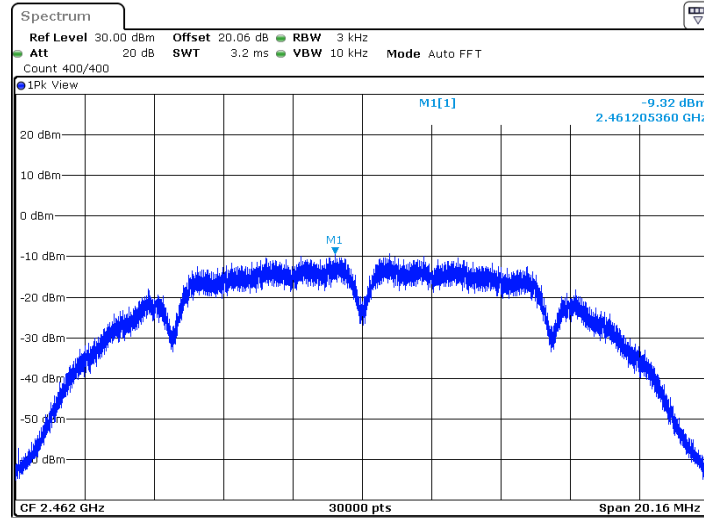
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11B_Ant2_2437



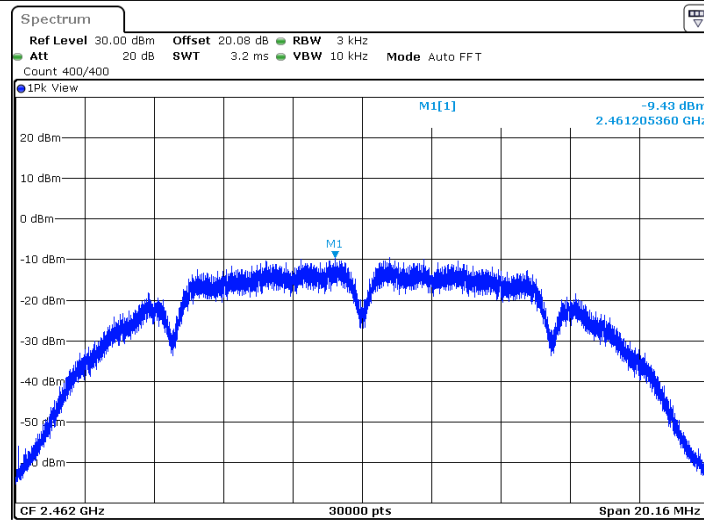
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 Date: 23.APR.2025 05:09:51

11B_Ant1_2462



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 05:12:51

11B_Ant2_2462



ProjectNo.:2501R08197E-RFTester:Lee.Li
 Date: 23.APR.2025 05:13:35