

RF Test Data for 2.4G Wi-Fi (Conducted Measurements)

General Description of EUT	
EUT Name:	Portable Gaming Computer(Tablet computer)
Model:	AYANEO 3
Sample ID:	HC-C-202501-0033-01-03-2#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	23.8℃
Ambient Humidity:	48%
Test Power Supply:	DC 11.55V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202501-0033-112	

Contents

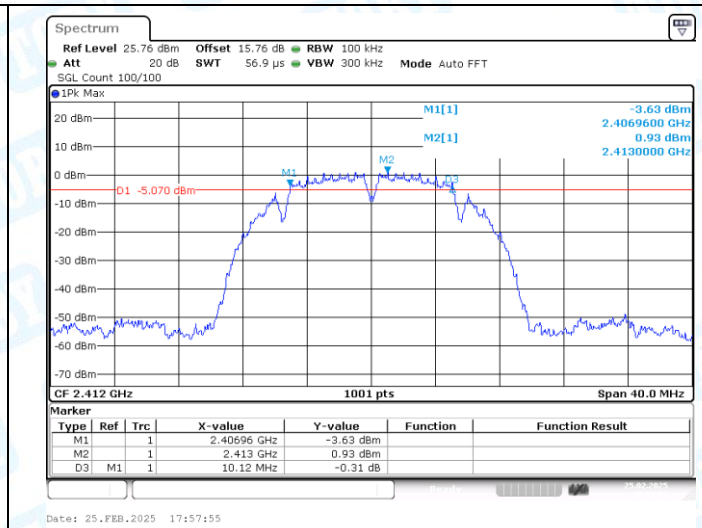
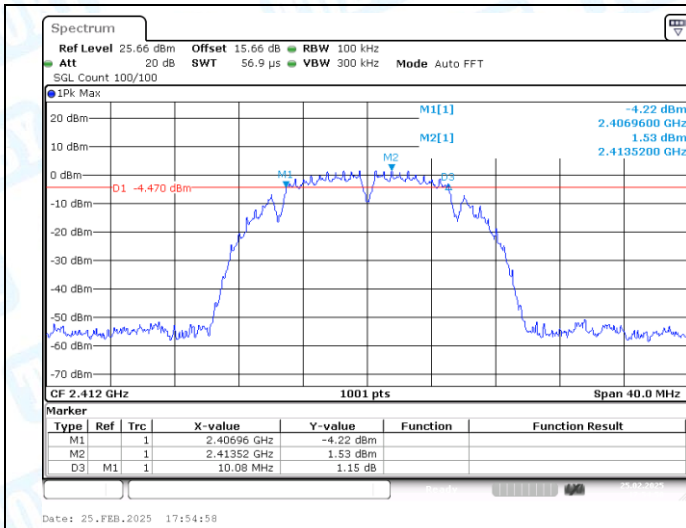
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1: DTS Bandwidth

1.1 Test Result

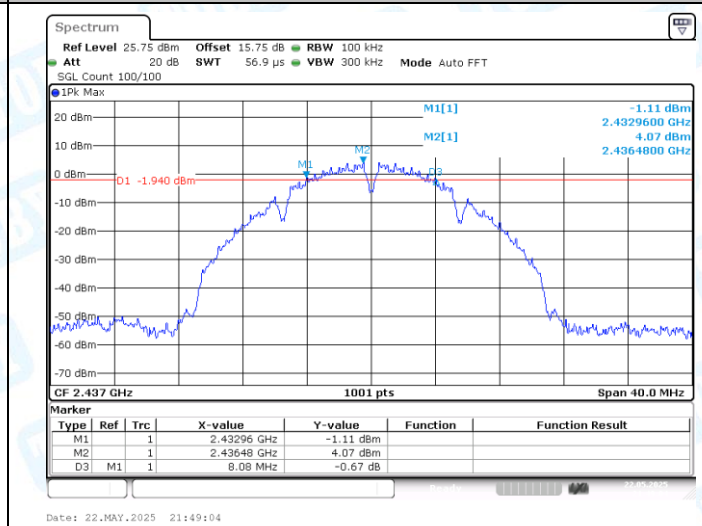
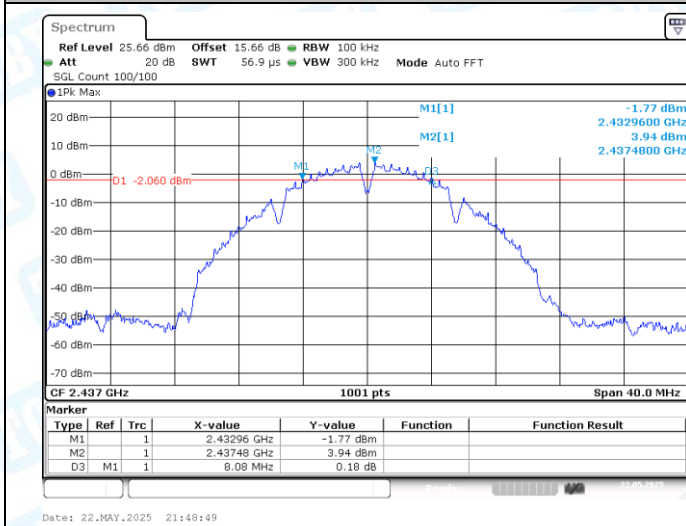
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
11B-CDD	Ant2	2412	10.12	2406.96	2417.08	0.5	PASS
11B-CDD	Ant1	2437	8.08	2432.96	2441.04	0.5	PASS
11B-CDD	Ant2	2437	8.08	2432.96	2441.04	0.5	PASS
11B-CDD	Ant1	2462	10.12	2456.96	2467.08	0.5	PASS
11B-CDD	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G-CDD	Ant1	2412	15.12	2404.44	2419.56	0.5	PASS
11G-CDD	Ant2	2412	15.04	2404.52	2419.56	0.5	PASS
11G-CDD	Ant1	2437	15.12	2429.44	2444.56	0.5	PASS
11G-CDD	Ant2	2437	13.88	2430.68	2444.56	0.5	PASS
11G-CDD	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
11G-CDD	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11N20MIMO	Ant1	2412	15.04	2404.52	2419.56	0.5	PASS
11N20MIMO	Ant2	2412	15.08	2404.44	2419.52	0.5	PASS
11N20MIMO	Ant1	2437	15.12	2429.44	2444.56	0.5	PASS
11N20MIMO	Ant2	2437	17.56	2428.24	2445.80	0.5	PASS
11N20MIMO	Ant1	2462	17.56	2453.24	2470.80	0.5	PASS
11N20MIMO	Ant2	2462	17.56	2453.24	2470.80	0.5	PASS
11N40MIMO	Ant1	2422	30.40	2404.48	2434.88	0.5	PASS
11N40MIMO	Ant2	2422	35.04	2404.48	2439.52	0.5	PASS
11N40MIMO	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
11N40MIMO	Ant2	2437	35.12	2419.48	2454.60	0.5	PASS
11N40MIMO	Ant1	2452	35.04	2434.56	2469.60	0.5	PASS
11N40MIMO	Ant2	2452	35.12	2434.48	2469.60	0.5	PASS
11AX20MIMO	Ant1	2412	15.12	2404.44	2419.56	0.5	PASS
11AX20MIMO	Ant2	2412	15.12	2404.44	2419.56	0.5	PASS
11AX20MIMO	Ant1	2437	16.32	2428.24	2444.56	0.5	PASS
11AX20MIMO	Ant2	2437	15.12	2429.44	2444.56	0.5	PASS
11AX20MIMO	Ant1	2462	13.88	2455.68	2469.56	0.5	PASS
11AX20MIMO	Ant2	2462	15.12	2454.44	2469.56	0.5	PASS
11AX40MIMO	Ant1	2422	35.12	2404.48	2439.60	0.5	PASS
11AX40MIMO	Ant2	2422	35.12	2404.48	2439.60	0.5	PASS
11AX40MIMO	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
11AX40MIMO	Ant2	2437	31.28	2423.24	2454.52	0.5	PASS
11AX40MIMO	Ant1	2452	35.12	2434.48	2469.60	0.5	PASS
11AX40MIMO	Ant2	2452	33.84	2435.68	2469.52	0.5	PASS

1.2 Test Graphs



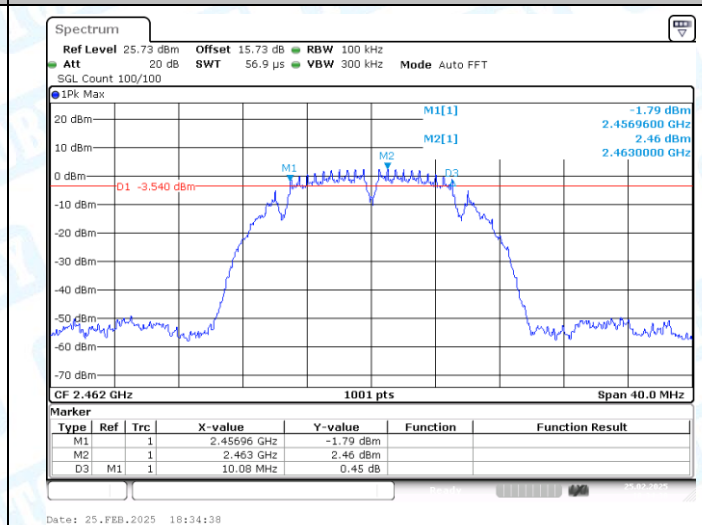
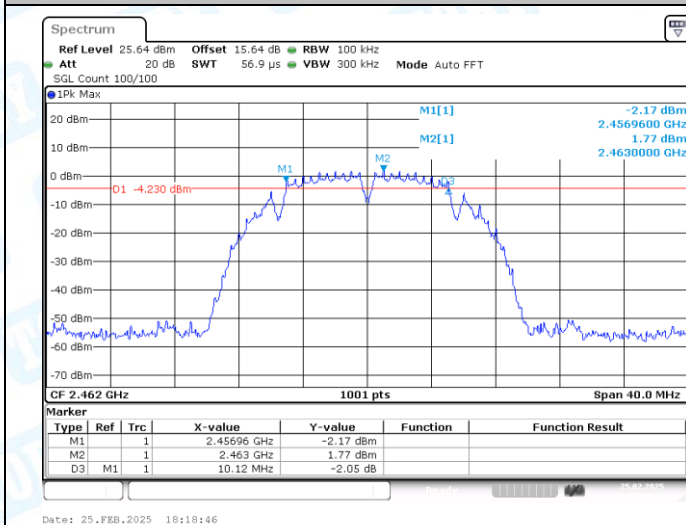
11B-CDD-Ant1-2412-PASS

11B-CDD-Ant2-2412-PASS



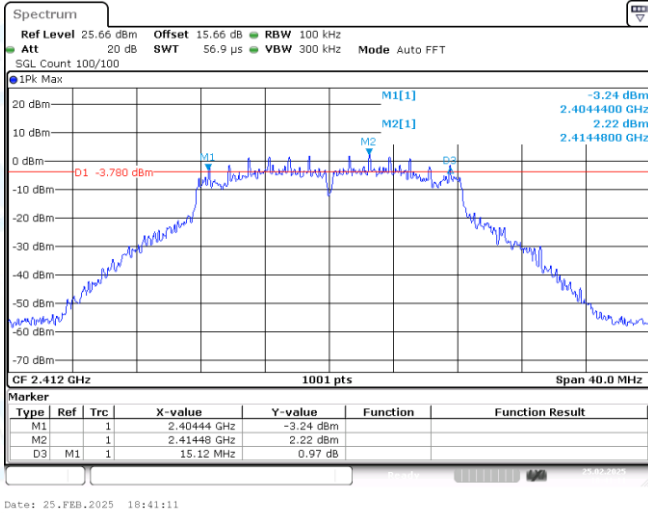
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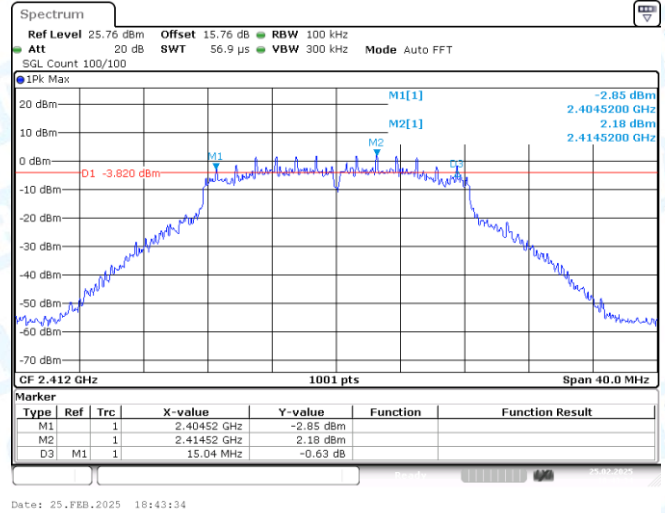


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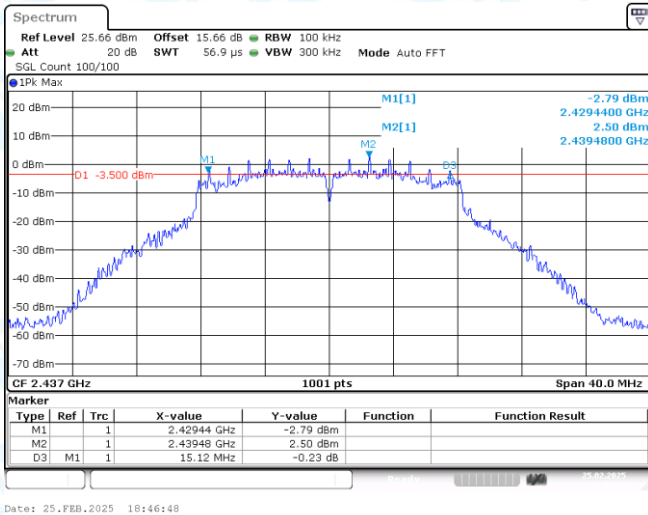
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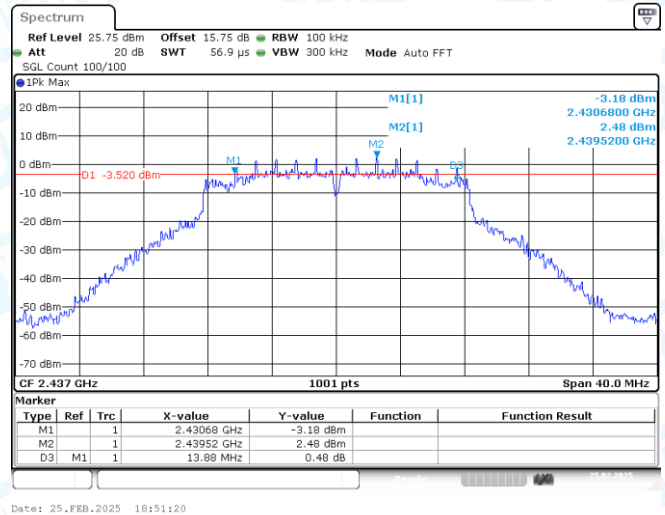
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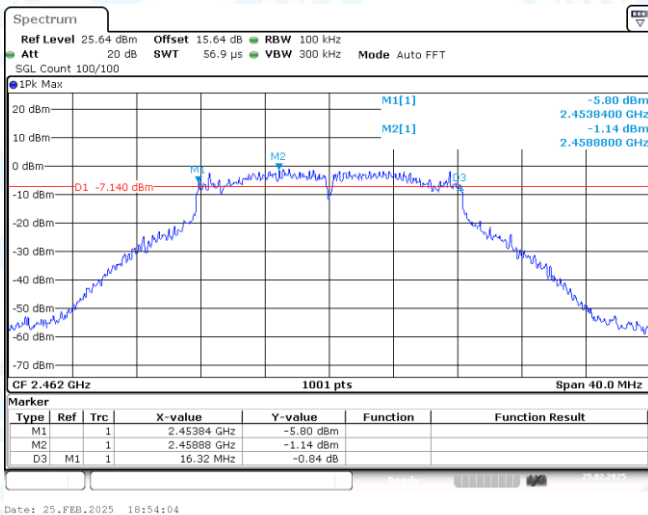
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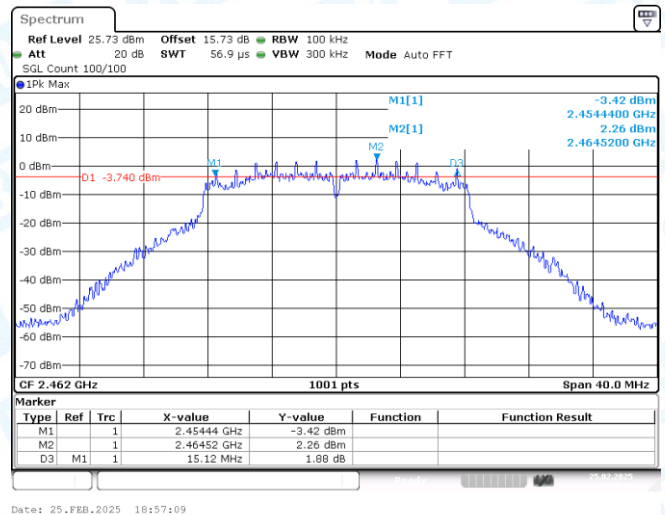
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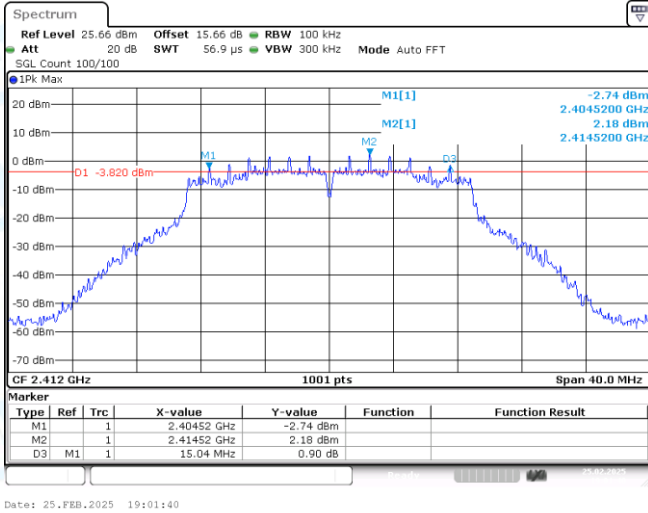
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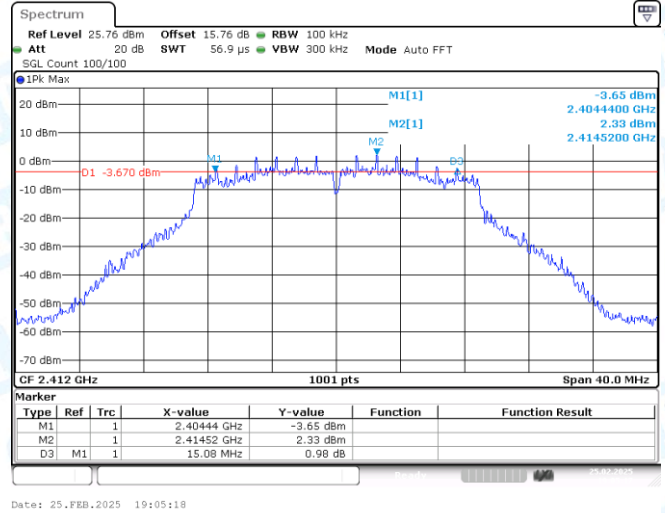
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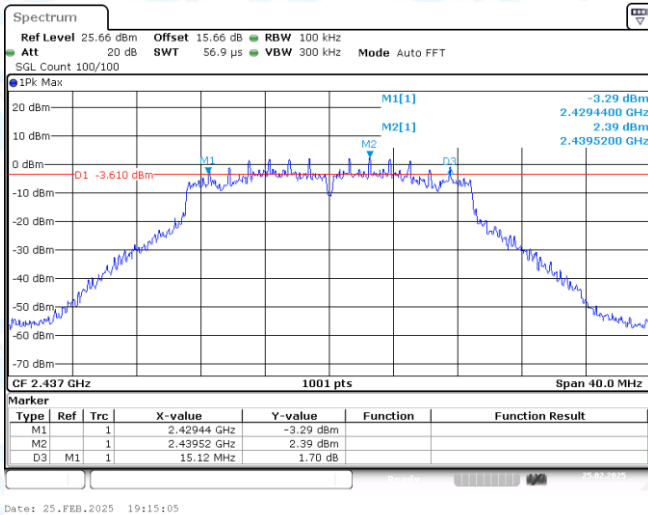
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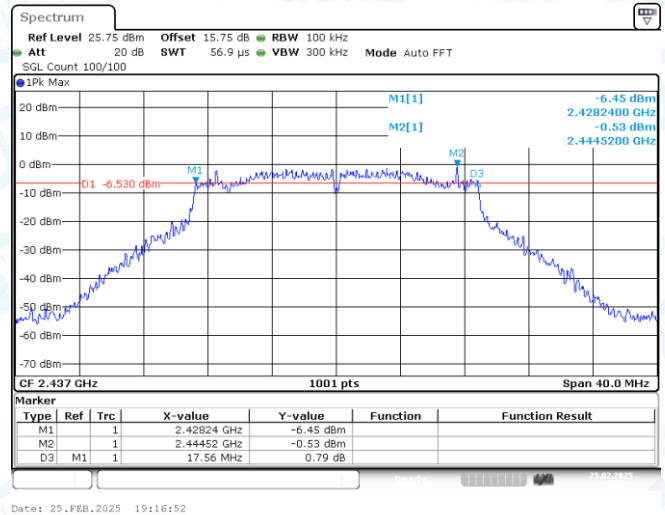
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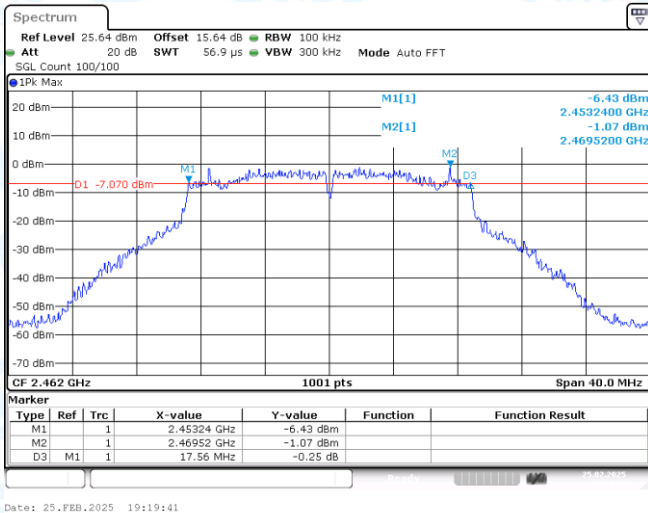
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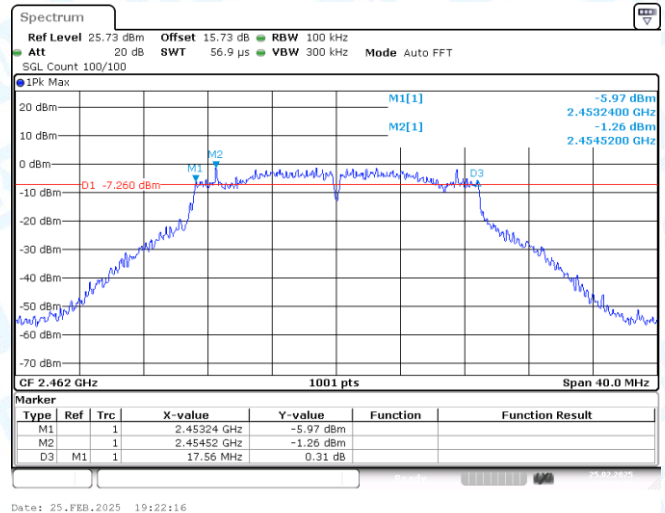
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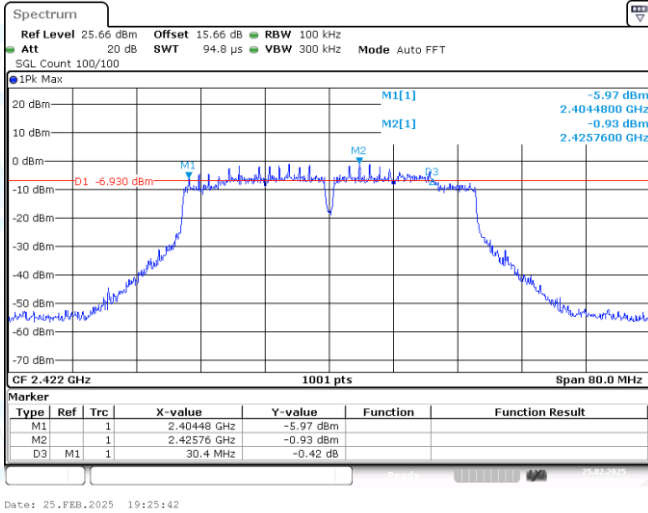
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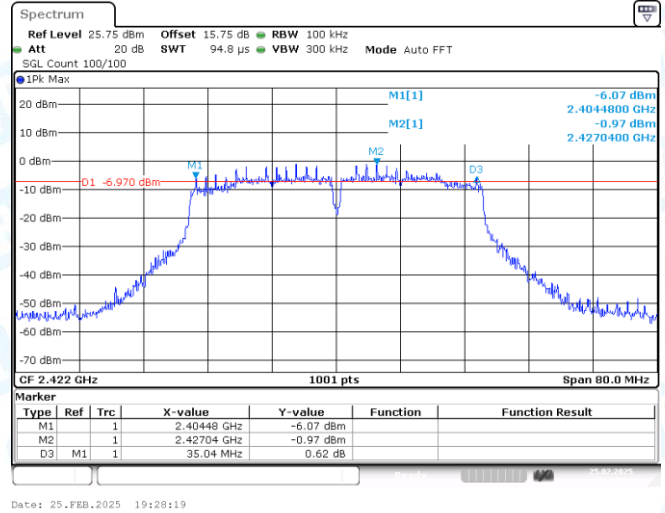
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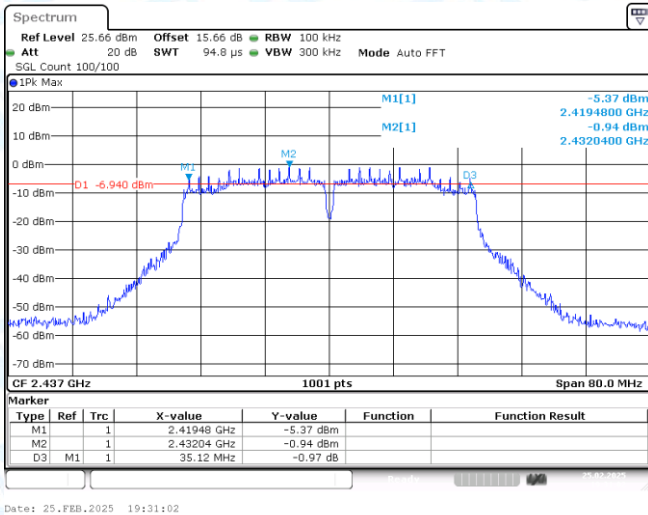
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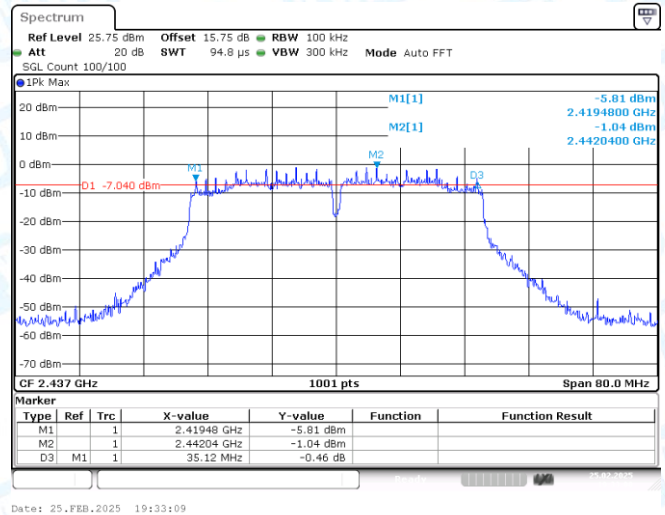
11N40MIMO-Ant1-2422-PASS



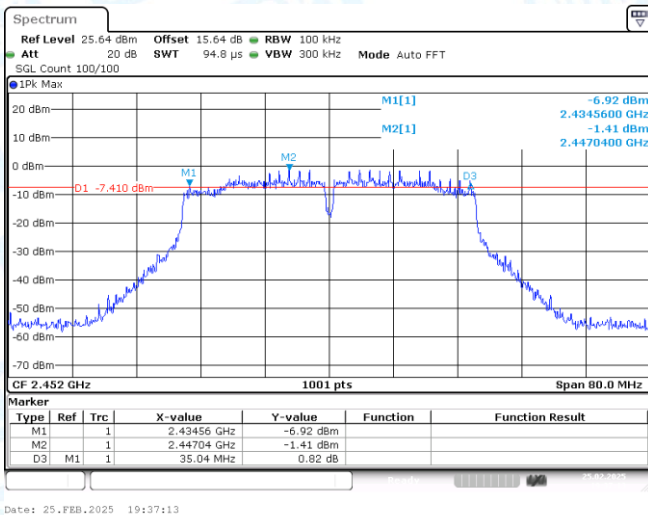
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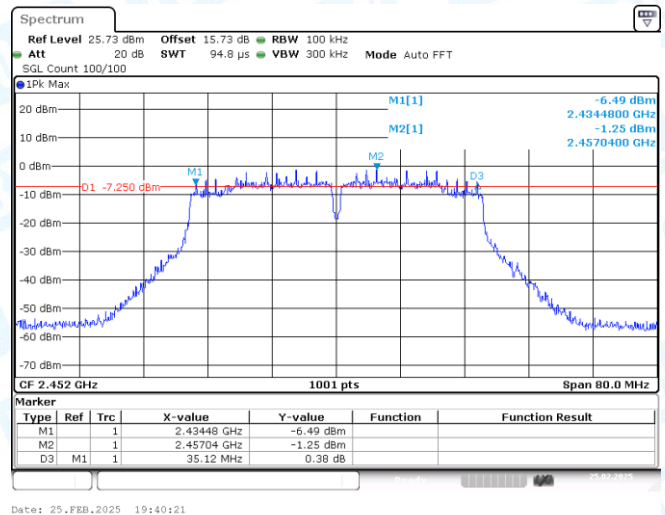
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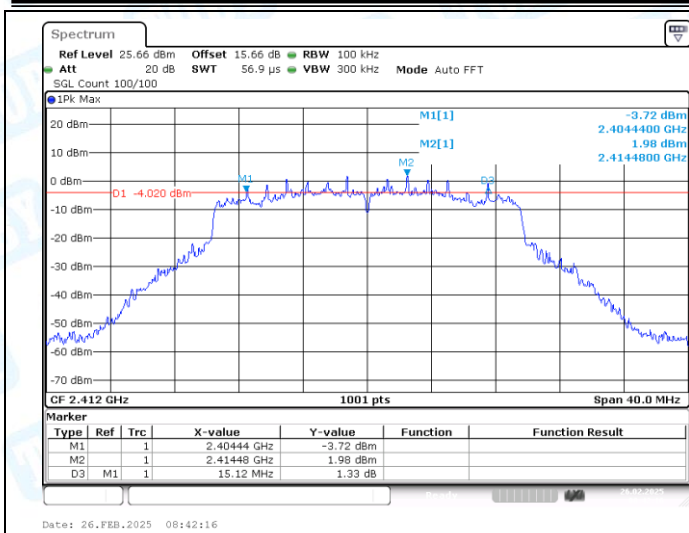
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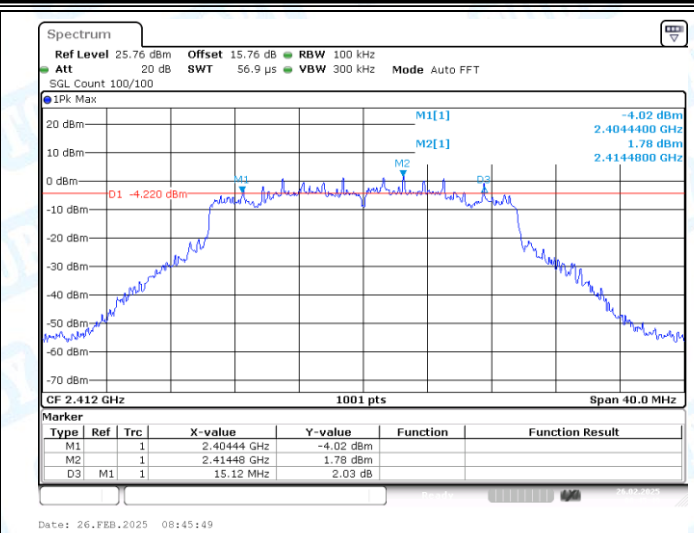
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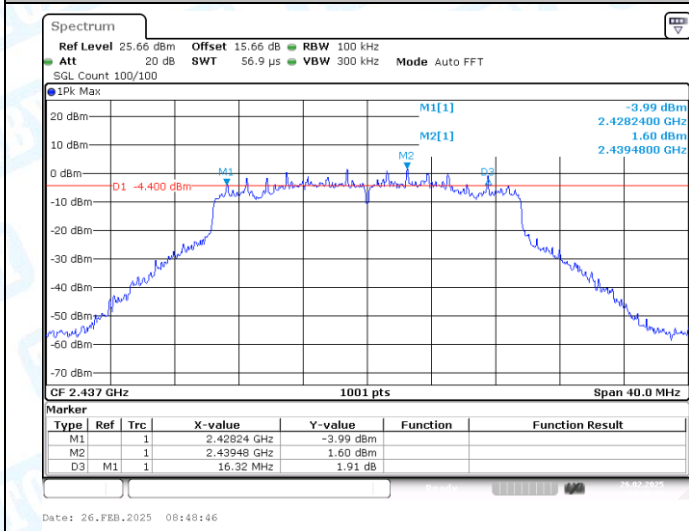
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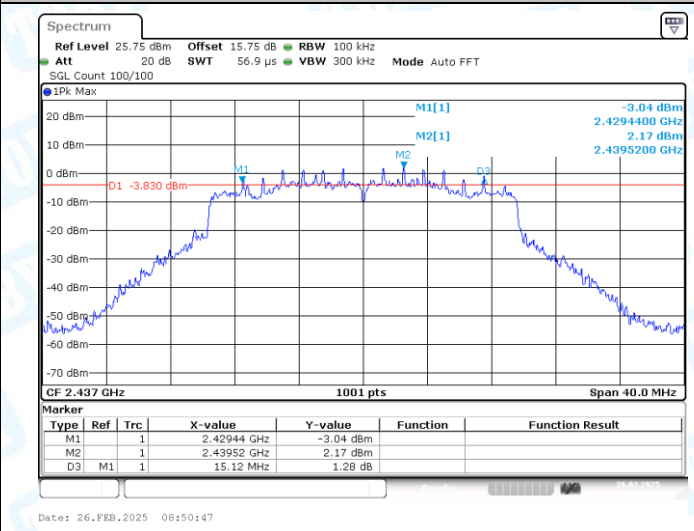
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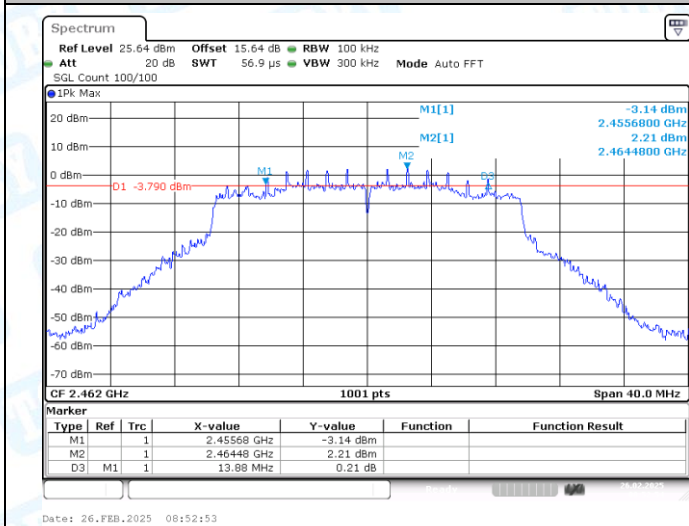
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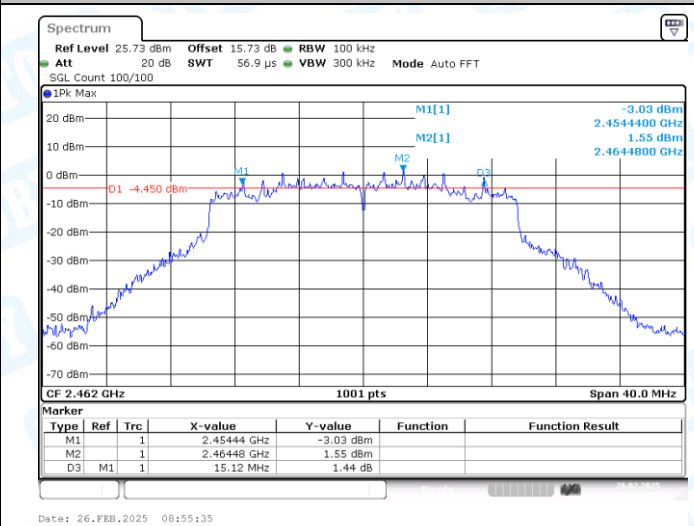
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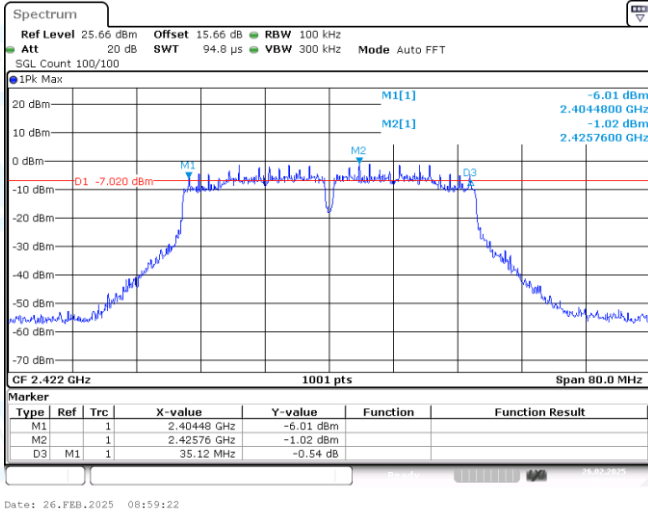
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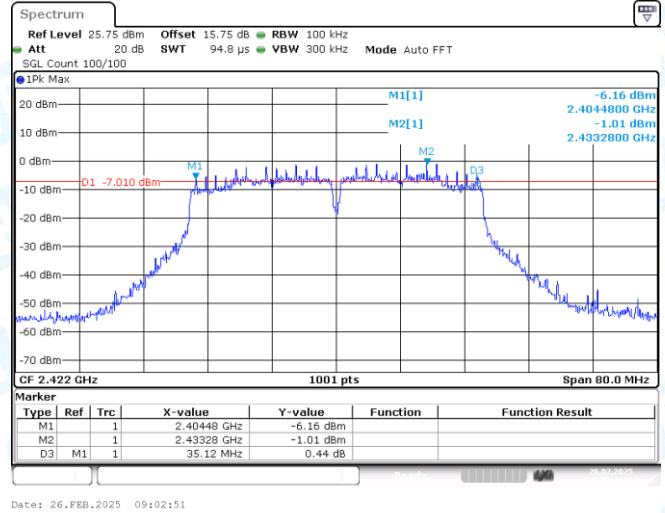
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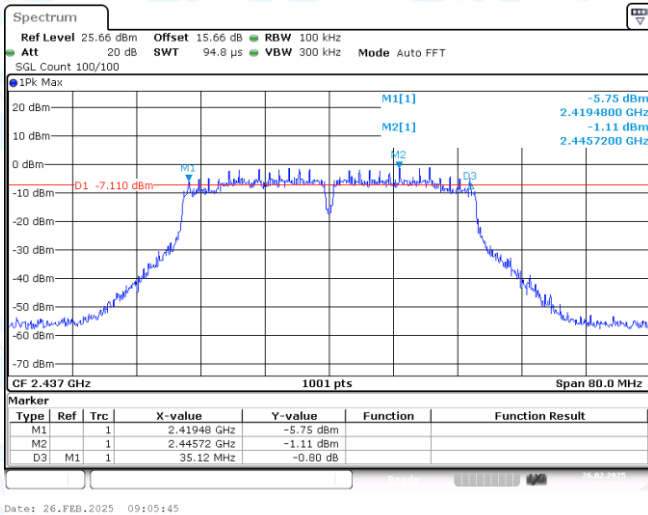
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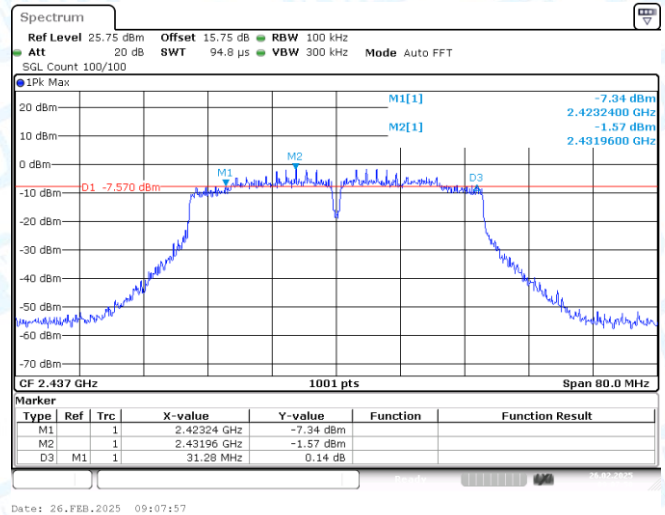
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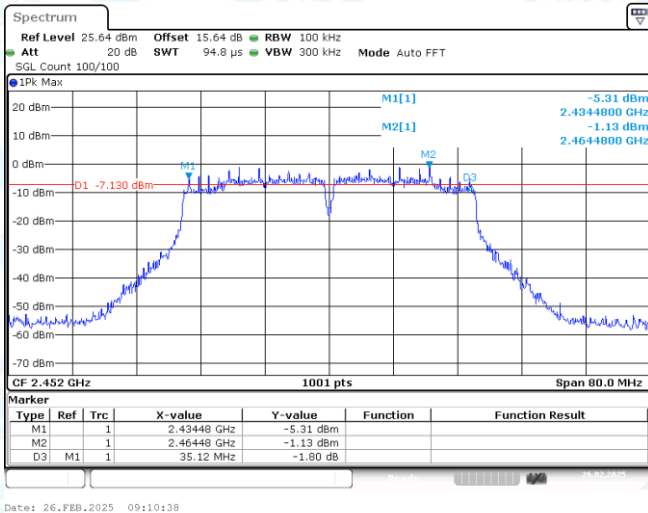
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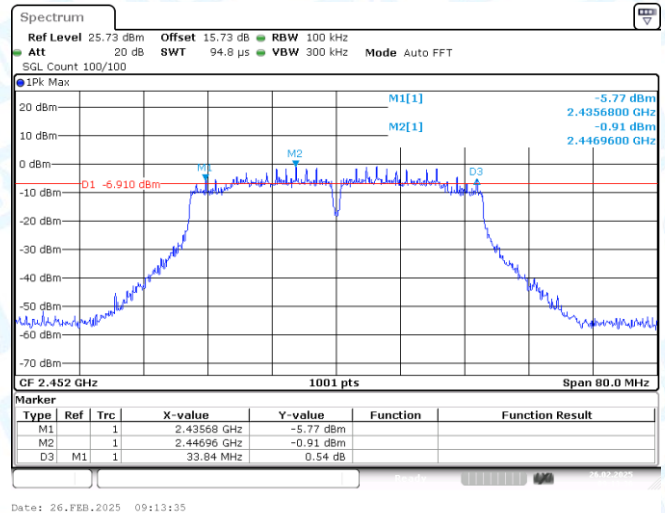
11AX40MIMO-Ant1-2437-PASS



11AX40MIMO-Ant2-2437-PASS



11AX40MIMO-Ant1-2452-PASS



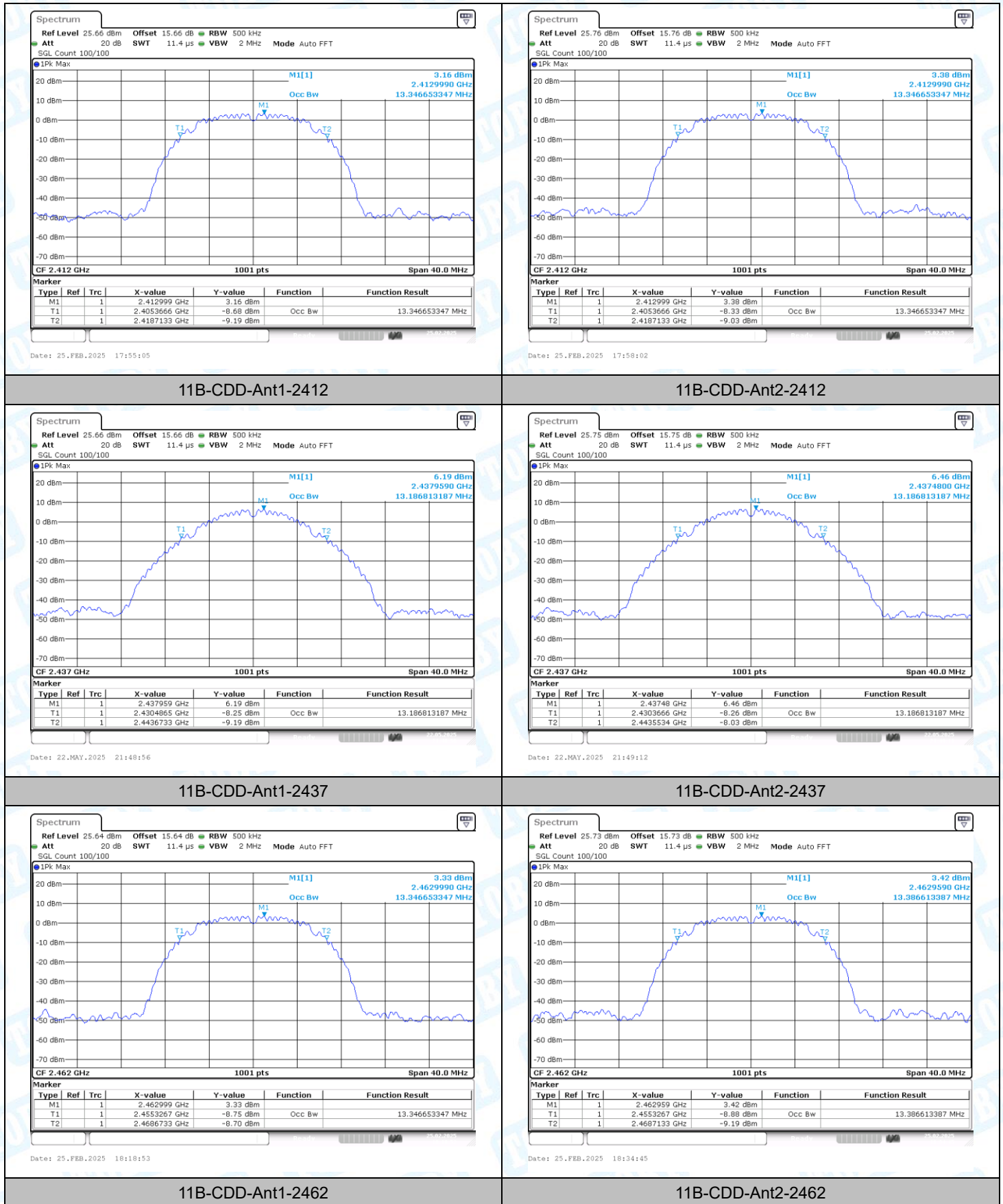
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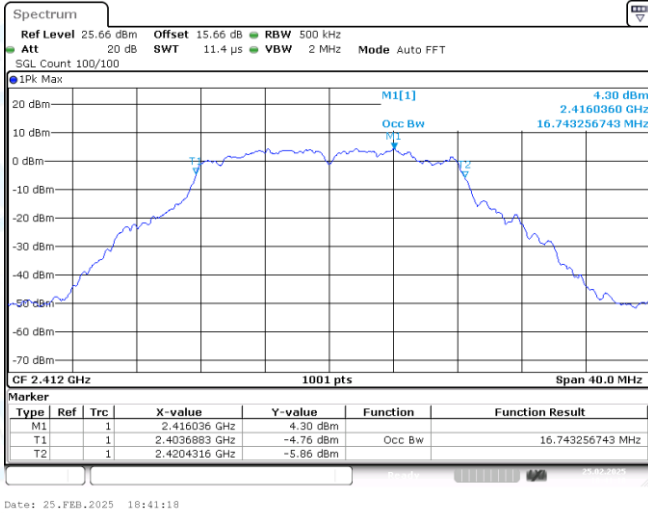
2: Occupied Channel Bandwidth

2.1 Test Result

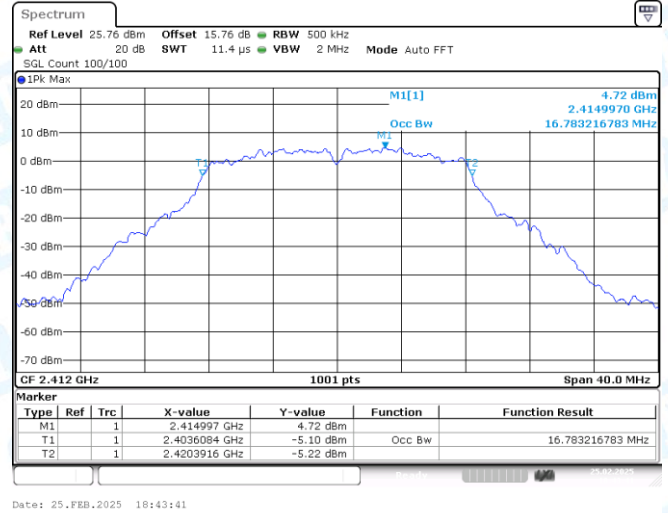
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.347	2405.3666	2418.7133	---	---
11B-CDD	Ant2	2412	13.347	2405.3666	2418.7133	---	---
11B-CDD	Ant1	2437	13.187	2430.4865	2443.6733	---	---
11B-CDD	Ant2	2437	13.187	2430.3666	2443.5534	---	---
11B-CDD	Ant1	2462	13.347	2455.3267	2468.6733	---	---
11B-CDD	Ant2	2462	13.387	2455.3267	2468.7133	---	---
11G-CDD	Ant1	2412	16.743	2403.6883	2420.4316	---	---
11G-CDD	Ant2	2412	16.783	2403.6084	2420.3916	---	---
11G-CDD	Ant1	2437	16.863	2428.5285	2445.3916	---	---
11G-CDD	Ant2	2437	16.903	2428.6084	2445.5115	---	---
11G-CDD	Ant1	2462	16.903	2453.5285	2470.4316	---	---
11G-CDD	Ant2	2462	16.903	2453.6084	2470.5115	---	---
11N20MIMO	Ant1	2412	18.182	2402.9690	2421.1508	---	---
11N20MIMO	Ant2	2412	17.862	2403.0090	2420.8711	---	---
11N20MIMO	Ant1	2437	18.102	2428.0490	2446.1508	---	---
11N20MIMO	Ant2	2437	17.982	2427.9690	2445.9510	---	---
11N20MIMO	Ant1	2462	18.062	2452.9291	2470.9910	---	---
11N20MIMO	Ant2	2462	17.862	2453.0490	2470.9111	---	---
11N40MIMO	Ant1	2422	36.204	2403.9381	2440.1419	---	---
11N40MIMO	Ant2	2422	36.044	2404.0180	2440.0619	---	---
11N40MIMO	Ant1	2437	36.124	2418.9381	2455.0619	---	---
11N40MIMO	Ant2	2437	36.204	2419.0180	2455.2218	---	---
11N40MIMO	Ant1	2452	36.364	2433.6983	2470.0619	---	---
11N40MIMO	Ant2	2452	36.284	2433.8581	2470.1419	---	---
11AX20MIMO	Ant1	2412	18.981	2402.4496	2421.4306	---	---
11AX20MIMO	Ant2	2412	19.021	2402.4895	2421.5105	---	---
11AX20MIMO	Ant1	2437	18.901	2427.5694	2446.4705	---	---
11AX20MIMO	Ant2	2437	19.101	2427.3696	2446.4705	---	---
11AX20MIMO	Ant1	2462	18.981	2452.4096	2471.3906	---	---
11AX20MIMO	Ant2	2462	19.141	2452.4096	2471.5504	---	---
11AX40MIMO	Ant1	2422	36.284	2403.9381	2440.2218	---	---
11AX40MIMO	Ant2	2422	36.044	2404.0180	2440.0619	---	---
11AX40MIMO	Ant1	2437	36.044	2419.0180	2455.0619	---	---
11AX40MIMO	Ant2	2437	35.884	2419.0979	2454.9820	---	---
11AX40MIMO	Ant1	2452	36.124	2433.9381	2470.0619	---	---
11AX40MIMO	Ant2	2452	36.284	2434.0180	2470.3017	---	---

2.2 Test Graphs

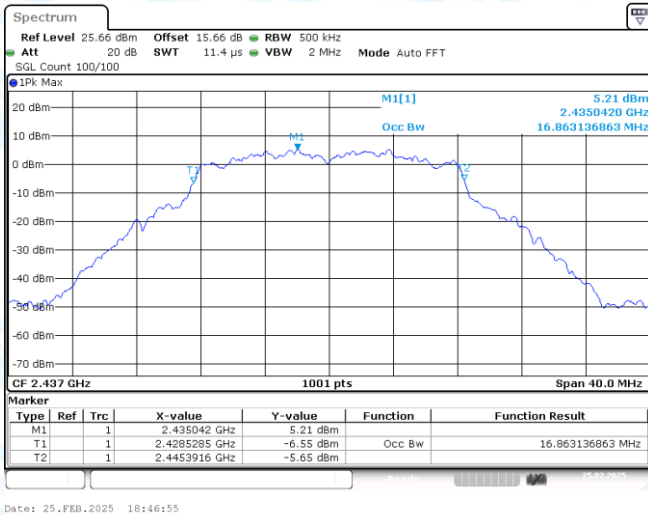




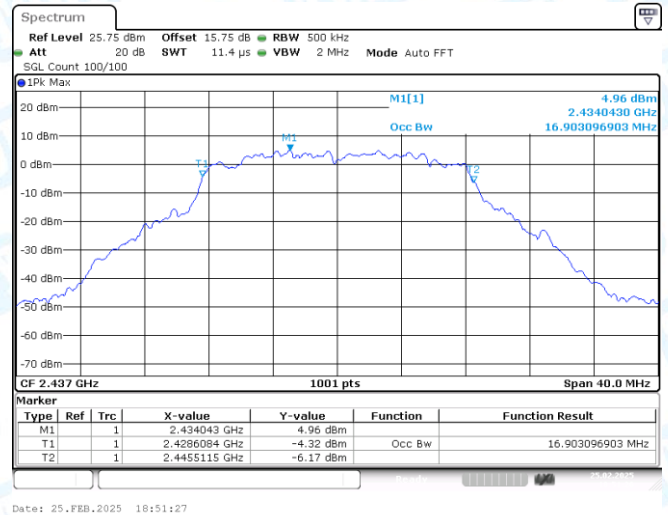
11G-CDD-Ant1-2412



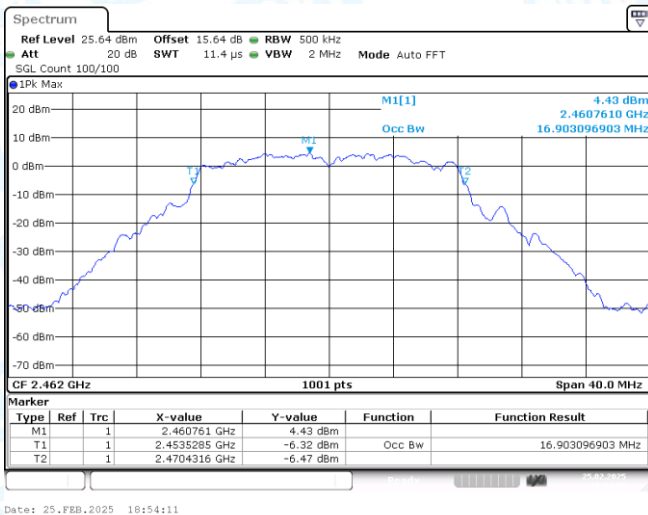
11G-CDD-Ant2-2412



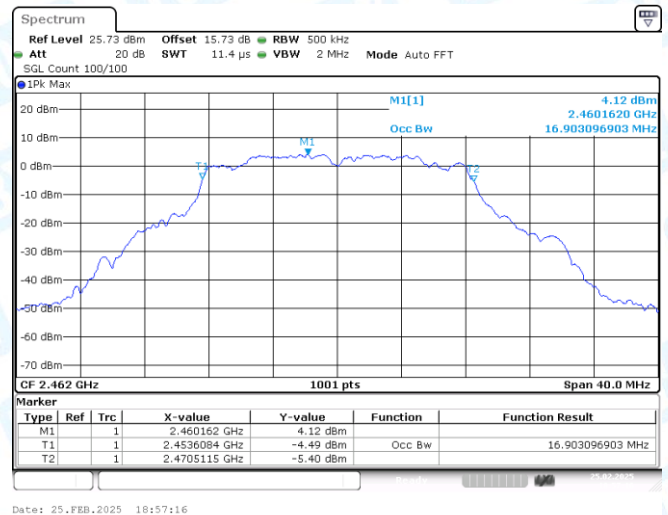
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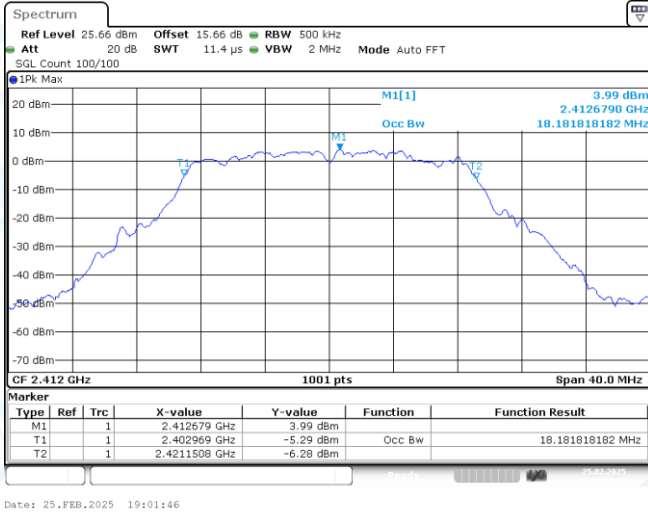
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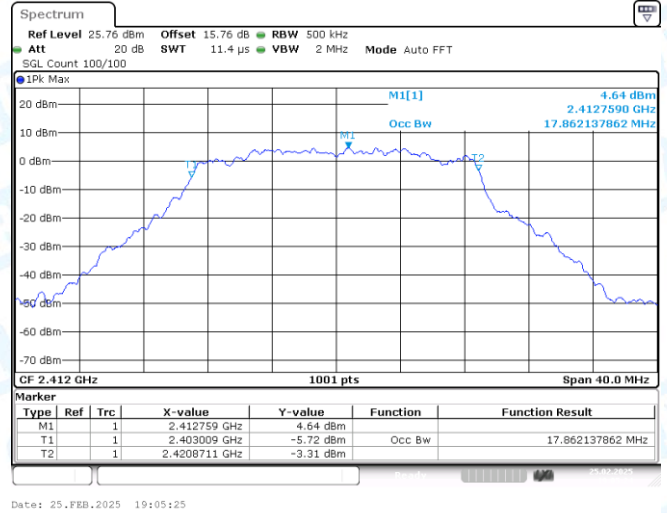
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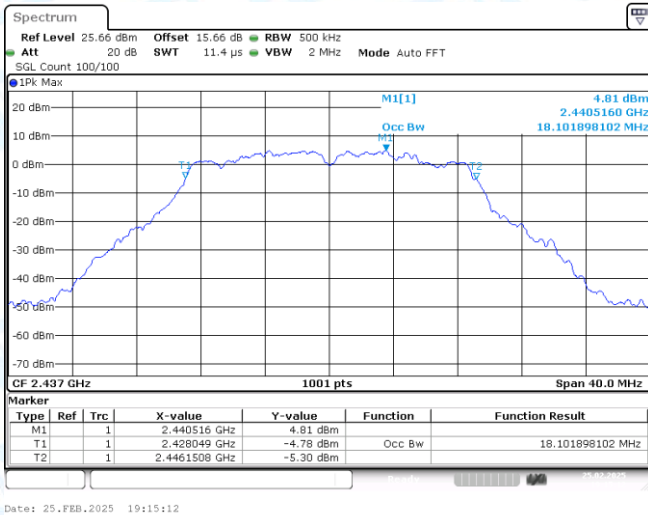
11G-CDD-Ant2-2462



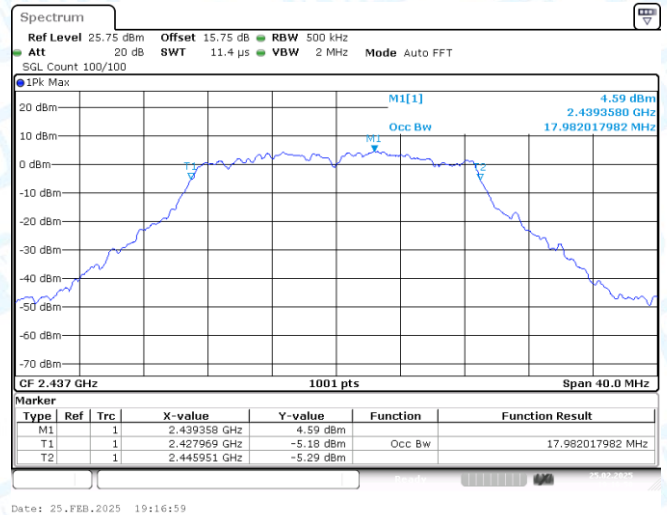
11N20MIMO-Ant1-2412



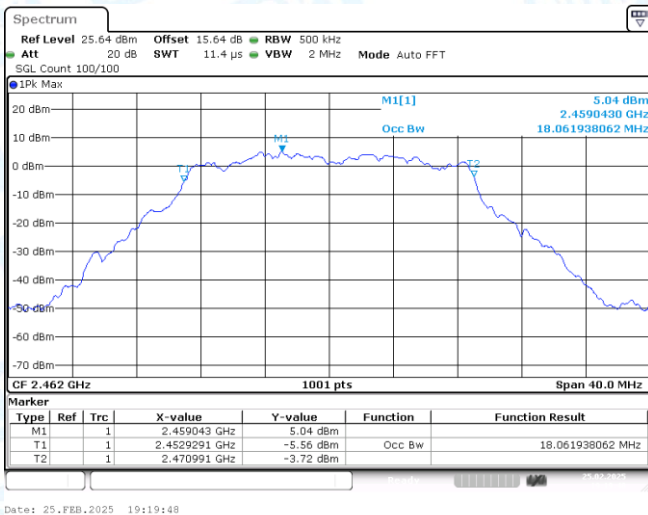
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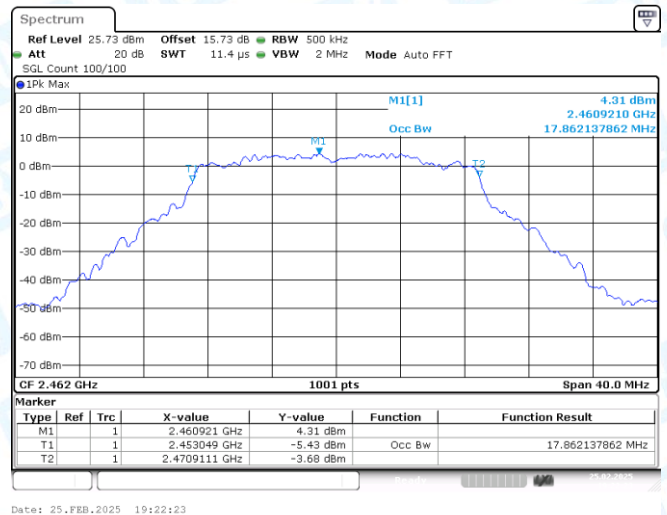
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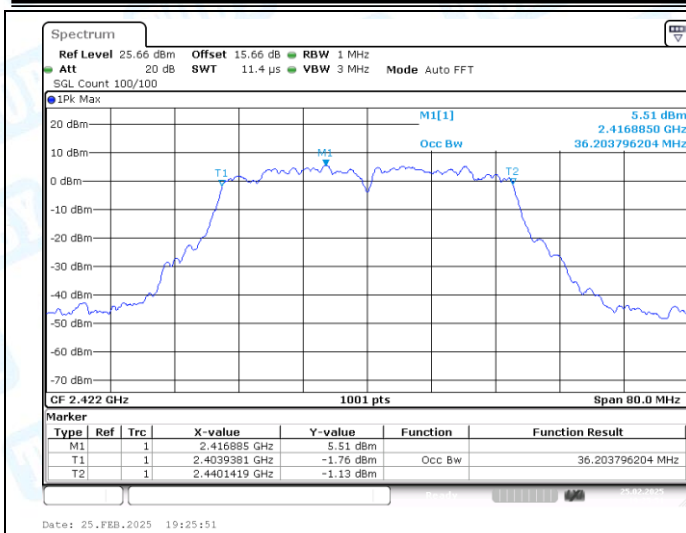
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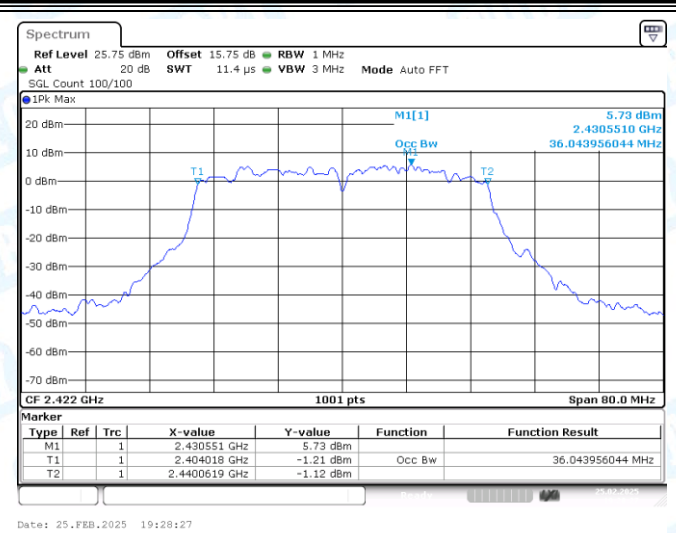
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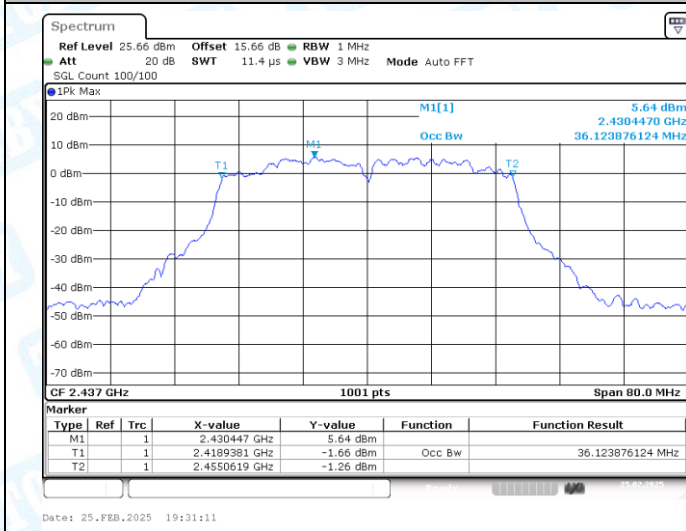
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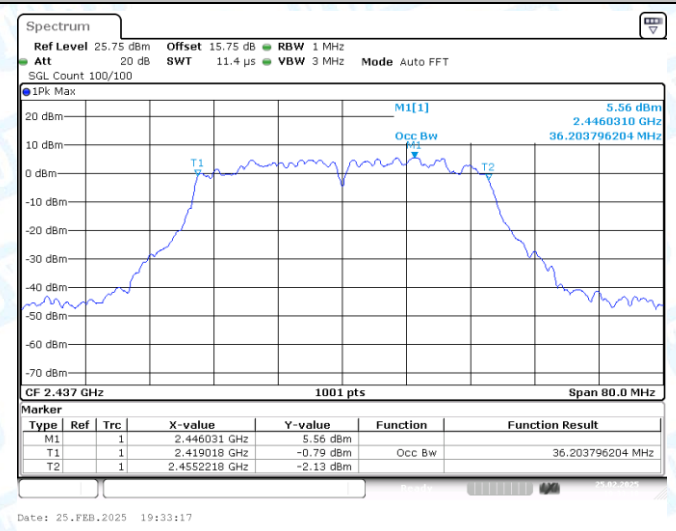
11N40MIMO-Ant1-2422



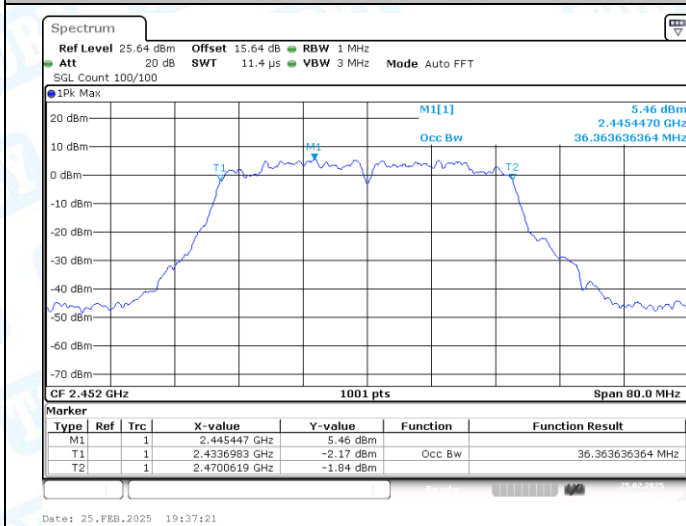
11N40MIMO-Ant2-2422



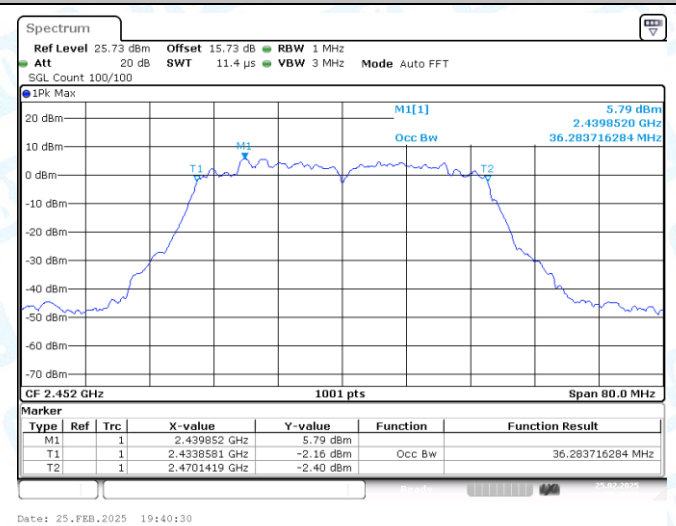
11N40MIMO-Ant1-2437



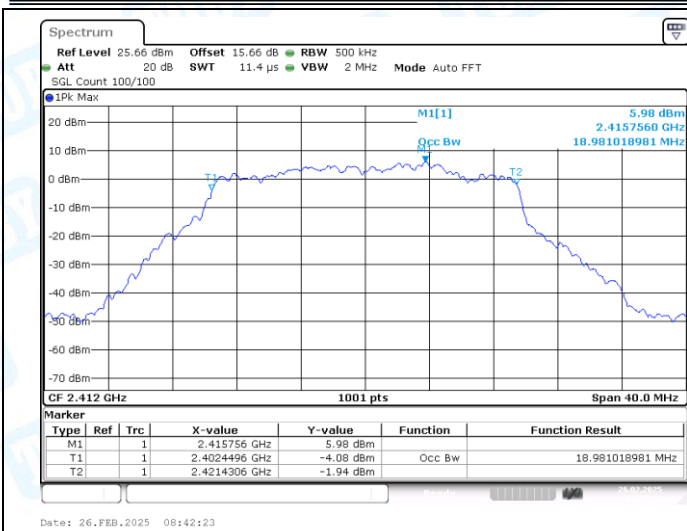
11N40MIMO-Ant2-2437



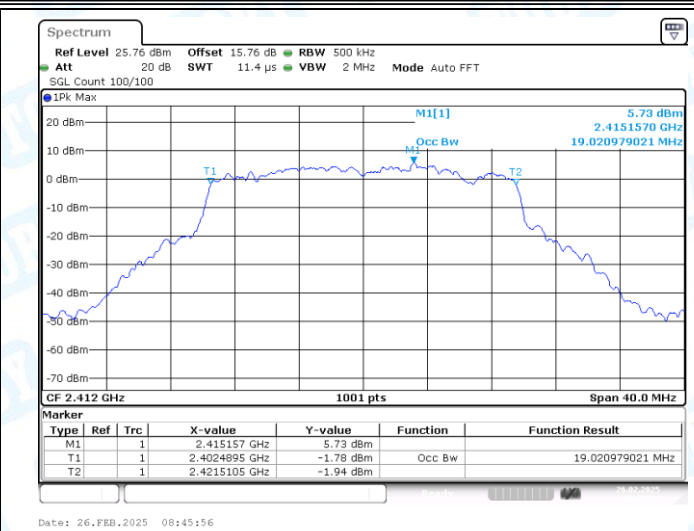
11N40MIMO-Ant1-2452



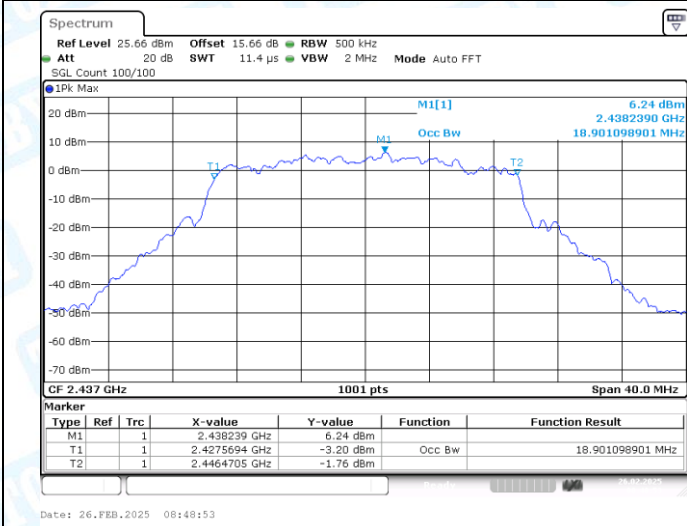
11N40MIMO-Ant2-2452



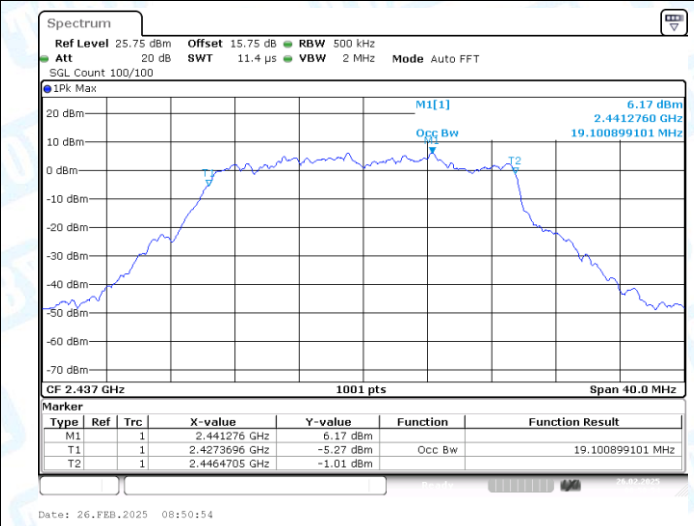
11AX20MIMO-Ant1-2412



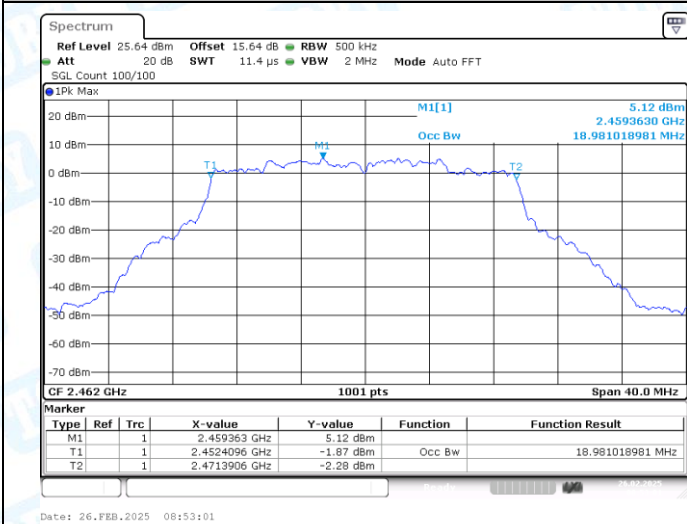
11AX20MIMO-Ant2-2412



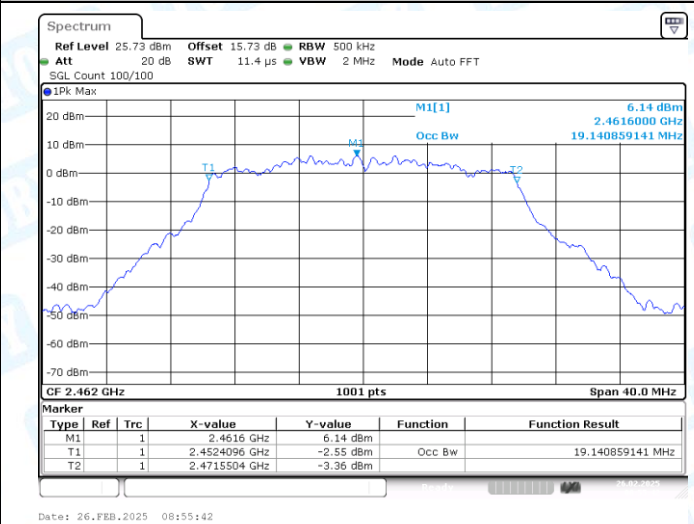
11AX20MIMO-Ant1-2437



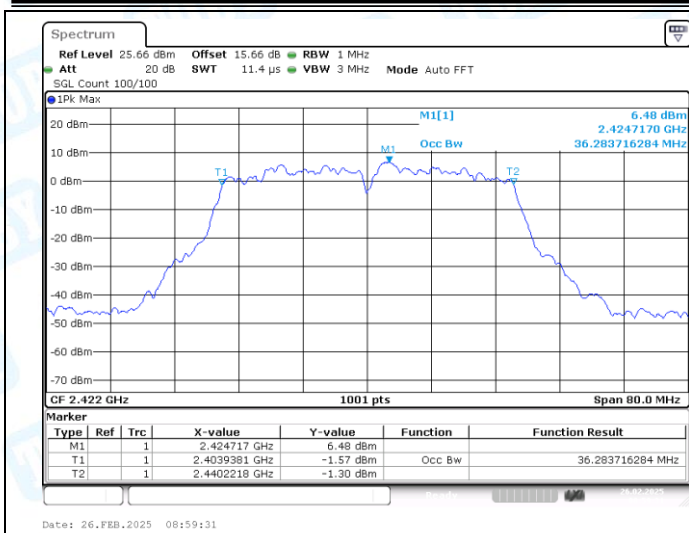
11AX20MIMO-Ant2-2437



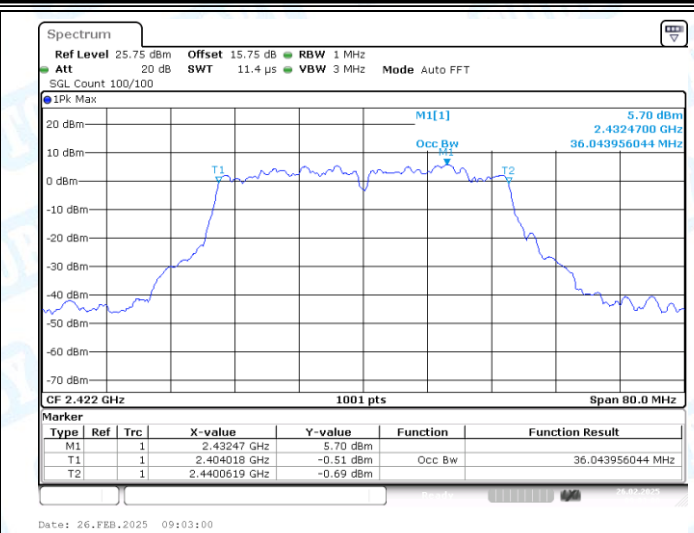
11AX20MIMO-Ant1-2462



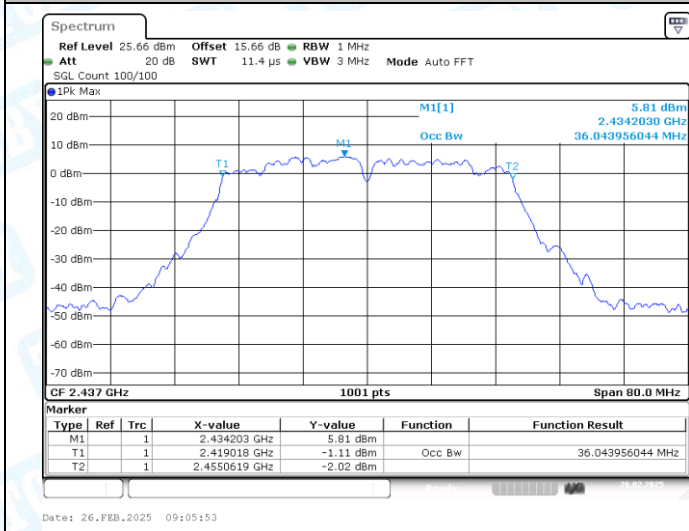
11AX20MIMO-Ant2-2462



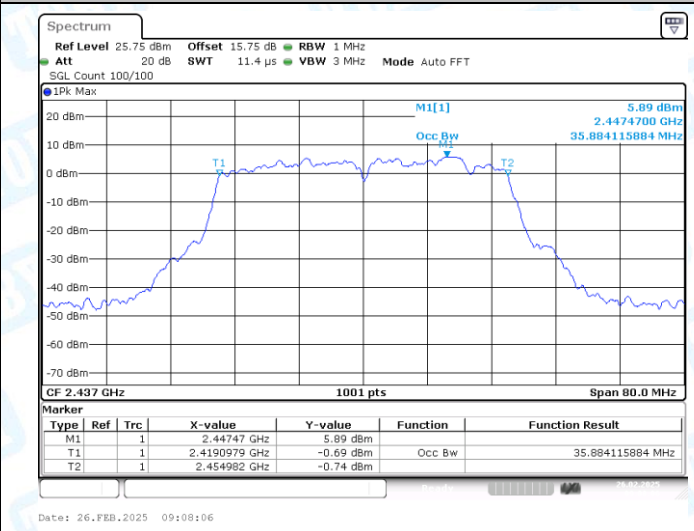
11AX40MIMO-Ant1-2422



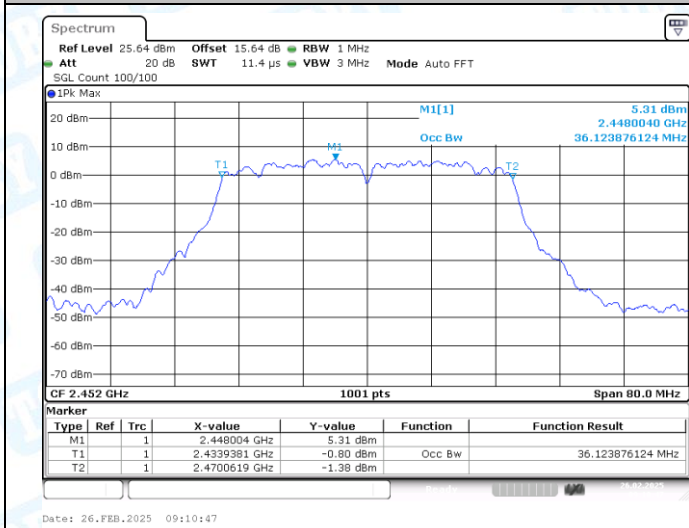
11AX40MIMO-Ant2-2422



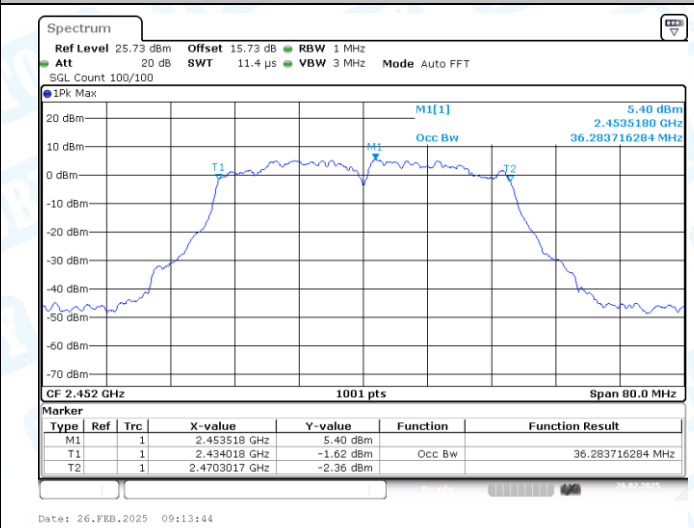
11AX40MIMO-Ant1-2437



11AX40MIMO-Ant2-2437



11AX40MIMO-Ant1-2452



11AX40MIMO-Ant2-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	11.56	≤30.00	PASS
11B-CDD	Ant2	2412	11.86	≤30.00	PASS
11B-CDD	total	2412	14.72	≤30.00	PASS
11B-CDD	Ant1	2437	11.86	≤30.00	PASS
11B-CDD	Ant2	2437	11.92	≤30.00	PASS
11B-CDD	total	2437	14.90	≤30.00	PASS
11B-CDD	Ant1	2462	11.84	≤30.00	PASS
11B-CDD	Ant2	2462	11.95	≤30.00	PASS
11B-CDD	total	2462	14.91	≤30.00	PASS
11G-CDD	Ant1	2412	11.92	≤30.00	PASS
11G-CDD	Ant2	2412	11.49	≤30.00	PASS
11G-CDD	total	2412	14.72	≤30.00	PASS
11G-CDD	Ant1	2437	12.21	≤30.00	PASS
11G-CDD	Ant2	2437	12.14	≤30.00	PASS
11G-CDD	total	2437	15.19	≤30.00	PASS
11G-CDD	Ant1	2462	12.25	≤30.00	PASS
11G-CDD	Ant2	2462	12.28	≤30.00	PASS
11G-CDD	total	2462	15.28	≤30.00	PASS
11N20MIMO	Ant1	2412	11.64	≤30.00	PASS
11N20MIMO	Ant2	2412	10.86	≤30.00	PASS
11N20MIMO	total	2412	14.28	≤30.00	PASS
11N20MIMO	Ant1	2437	11.98	≤30.00	PASS
11N20MIMO	Ant2	2437	11.85	≤30.00	PASS
11N20MIMO	total	2437	14.93	≤30.00	PASS
11N20MIMO	Ant1	2462	12.01	≤30.00	PASS
11N20MIMO	Ant2	2462	12.03	≤30.00	PASS
11N20MIMO	total	2462	15.03	≤30.00	PASS
11N40MIMO	Ant1	2422	12.48	≤30.00	PASS
11N40MIMO	Ant2	2422	12.52	≤30.00	PASS
11N40MIMO	total	2422	15.51	≤30.00	PASS
11N40MIMO	Ant1	2437	12.54	≤30.00	PASS
11N40MIMO	Ant2	2437	12.59	≤30.00	PASS
11N40MIMO	total	2437	15.58	≤30.00	PASS
11N40MIMO	Ant1	2452	12.64	≤30.00	PASS
11N40MIMO	Ant2	2452	12.56	≤30.00	PASS
11N40MIMO	total	2452	15.61	≤30.00	PASS
11AX20MIMO	Ant1	2412	11.84	≤30.00	PASS
11AX20MIMO	Ant2	2412	12.05	≤30.00	PASS
11AX20MIMO	total	2412	14.96	≤30.00	PASS
11AX20MIMO	Ant1	2437	12.12	≤30.00	PASS
11AX20MIMO	Ant2	2437	12.03	≤30.00	PASS

11AX20MIMO	total	2437	15.09	≤30.00	PASS
11AX20MIMO	Ant1	2462	12.21	≤30.00	PASS
11AX20MIMO	Ant2	2462	12.20	≤30.00	PASS
11AX20MIMO	total	2462	15.22	≤30.00	PASS
11AX40MIMO	Ant1	2422	12.38	≤30.00	PASS
11AX40MIMO	Ant2	2422	12.35	≤30.00	PASS
11AX40MIMO	total	2422	15.38	≤30.00	PASS
11AX40MIMO	Ant1	2437	12.45	≤30.00	PASS
11AX40MIMO	Ant2	2437	12.43	≤30.00	PASS
11AX40MIMO	total	2437	15.45	≤30.00	PASS
11AX40MIMO	Ant1	2452	12.63	≤30.00	PASS
11AX40MIMO	Ant2	2452	12.44	≤30.00	PASS
11AX40MIMO	total	2452	15.55	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

4: Maximum power spectral density

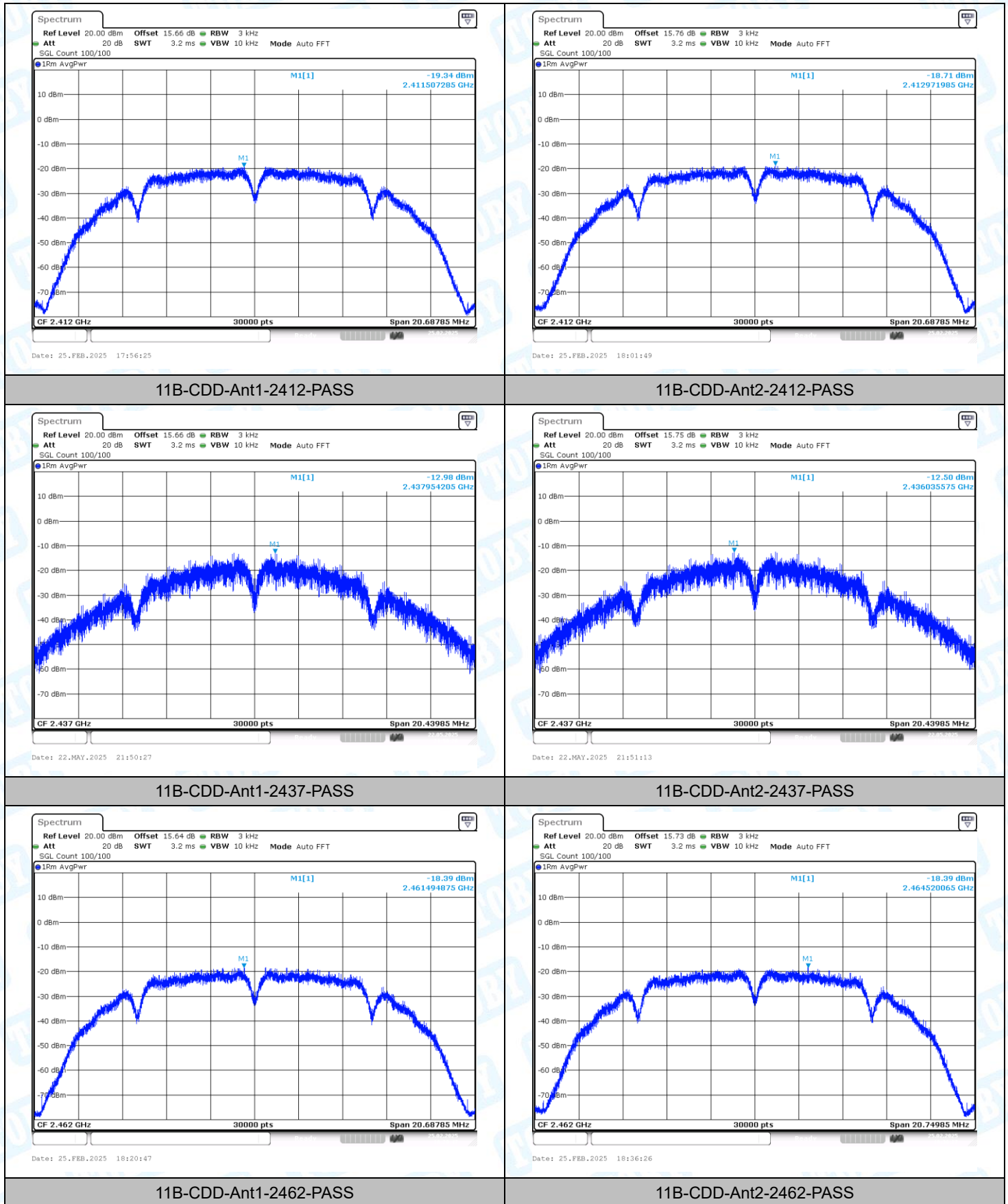
4.1 Test Result

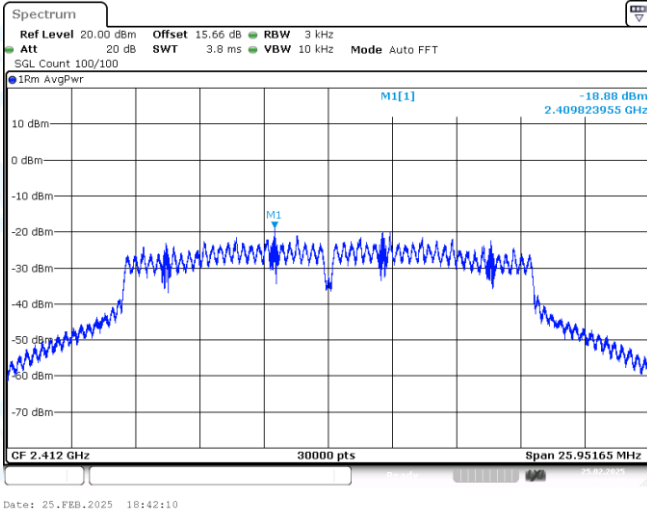
TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factory	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-19.34	0.02	-19.32	≤8.00	PASS
11B-CDD	Ant2	2412	-18.71	0.03	-18.68	≤8.00	PASS
11B-CDD	total	2412	---	---	-15.98	≤8.00	PASS
11B-CDD	Ant1	2437	-12.98	0.03	-12.95	≤8.00	PASS
11B-CDD	Ant2	2437	-12.5	0.03	-12.47	≤8.00	PASS
11B-CDD	total	2437	---	---	-9.69	≤8.00	PASS
11B-CDD	Ant1	2462	-18.39	0.03	-18.36	≤8.00	PASS
11B-CDD	Ant2	2462	-18.39	0.03	-18.36	≤8.00	PASS
11B-CDD	total	2462	---	---	-15.35	≤8.00	PASS
11G-CDD	Ant1	2412	-18.88	1.01	-17.87	≤8.00	PASS
11G-CDD	Ant2	2412	-19.15	1.01	-18.14	≤8.00	PASS
11G-CDD	total	2412	---	---	-14.99	≤8.00	PASS
11G-CDD	Ant1	2437	-18.55	1.01	-17.54	≤8.00	PASS
11G-CDD	Ant2	2437	-18.84	1.01	-17.83	≤8.00	PASS
11G-CDD	total	2437	---	---	-14.67	≤8.00	PASS
11G-CDD	Ant1	2462	-19.23	1.01	-18.22	≤8.00	PASS
11G-CDD	Ant2	2462	-19.39	1.01	-18.38	≤8.00	PASS
11G-CDD	total	2462	---	---	-15.29	≤8.00	PASS
11N20MIMO	Ant1	2412	-19.95	0.57	-19.38	≤8.00	PASS
11N20MIMO	Ant2	2412	-19.1	0.58	-18.52	≤8.00	PASS
11N20MIMO	total	2412	---	---	-15.92	≤8.00	PASS
11N20MIMO	Ant1	2437	-19.51	0.58	-18.93	≤8.00	PASS
11N20MIMO	Ant2	2437	-18.63	0.58	-18.05	≤8.00	PASS
11N20MIMO	total	2437	---	---	-15.46	≤8.00	PASS
11N20MIMO	Ant1	2462	-19.67	0.58	-19.09	≤8.00	PASS
11N20MIMO	Ant2	2462	-18.99	0.57	-18.42	≤8.00	PASS
11N20MIMO	total	2462	---	---	-15.73	≤8.00	PASS
11N40MIMO	Ant1	2422	-21.79	0.60	-21.19	≤8.00	PASS
11N40MIMO	Ant2	2422	-21.54	0.60	-20.94	≤8.00	PASS
11N40MIMO	total	2422	---	---	-18.05	≤8.00	PASS
11N40MIMO	Ant1	2437	-21.96	0.60	-21.36	≤8.00	PASS
11N40MIMO	Ant2	2437	-21.28	0.60	-20.68	≤8.00	PASS
11N40MIMO	total	2437	---	---	-18.00	≤8.00	PASS
11N40MIMO	Ant1	2452	-21.92	0.60	-21.32	≤8.00	PASS
11N40MIMO	Ant2	2452	-21.89	0.60	-21.29	≤8.00	PASS
11N40MIMO	total	2452	---	---	-18.29	≤8.00	PASS
11AX20MIMO	Ant1	2412	-18.51	0.71	-17.80	≤8.00	PASS
11AX20MIMO	Ant2	2412	-18.86	0.71	-18.15	≤8.00	PASS
11AX20MIMO	total	2412	---	---	-14.96	≤8.00	PASS
11AX20MIMO	Ant1	2437	-18.19	0.74	-17.45	≤8.00	PASS

11AX20MIMO	Ant2	2437	-18.55	0.58	-17.97	≤8.00	PASS
11AX20MIMO	total	2437	---	---	-14.69	≤8.00	PASS
11AX20MIMO	Ant1	2462	-18.22	0.71	-17.51	≤8.00	PASS
11AX20MIMO	Ant2	2462	-18.49	0.71	-17.78	≤8.00	PASS
11AX20MIMO	total	2462	---	---	-14.63	≤8.00	PASS
11AX40MIMO	Ant1	2422	-22.33	0.60	-21.73	≤8.00	PASS
11AX40MIMO	Ant2	2422	-21.73	0.60	-21.13	≤8.00	PASS
11AX40MIMO	total	2422	---	---	-18.41	≤8.00	PASS
11AX40MIMO	Ant1	2437	-21.81	0.60	-21.21	≤8.00	PASS
11AX40MIMO	Ant2	2437	-21.82	0.60	-21.22	≤8.00	PASS
11AX40MIMO	total	2437	---	---	-18.20	≤8.00	PASS
11AX40MIMO	Ant1	2452	-21.57	0.60	-20.97	≤8.00	PASS
11AX40MIMO	Ant2	2452	-22.18	0.60	-21.58	≤8.00	PASS
11AX40MIMO	total	2452	---	---	-18.25	≤8.00	PASS

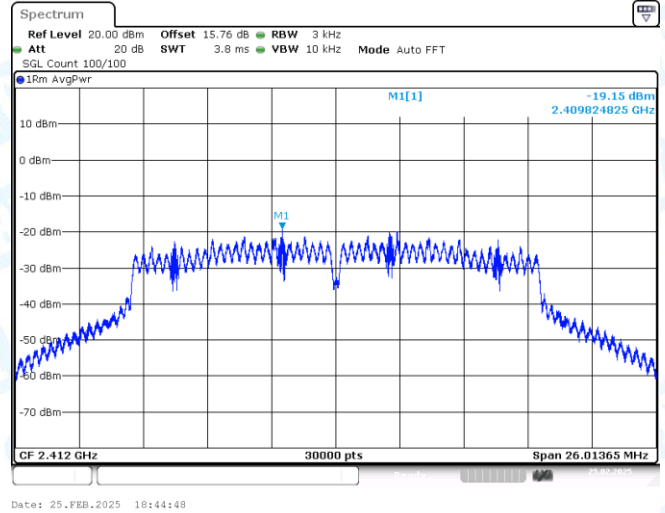
Note: The Duty Cycle Factor is compensated in the graph.

4.2 Test Graphs

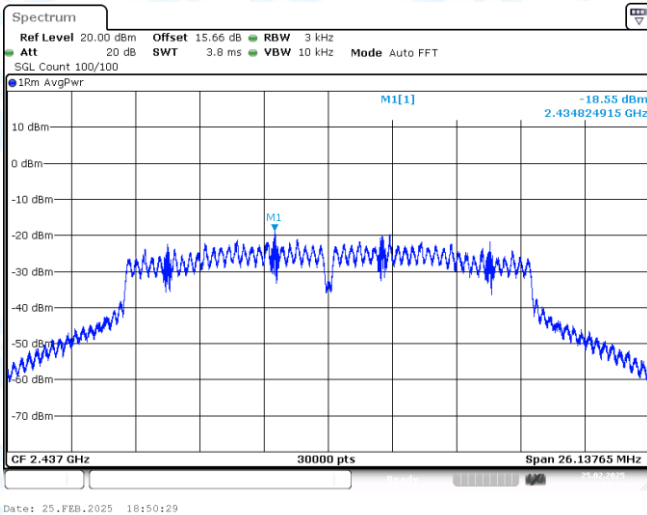




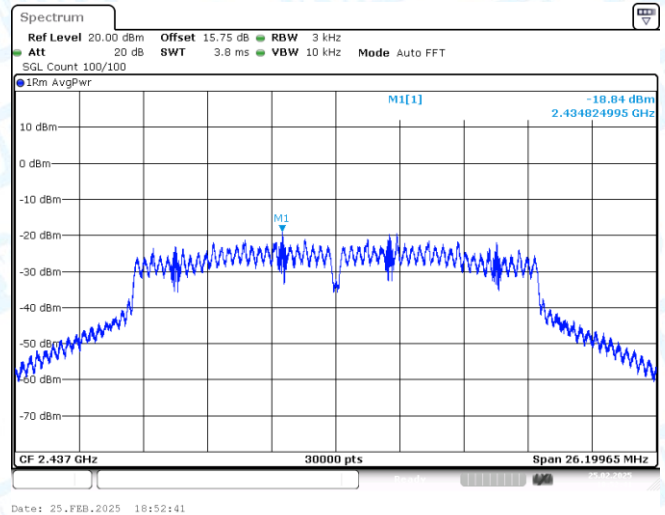
11G-CDD-Ant1-2412-PASS



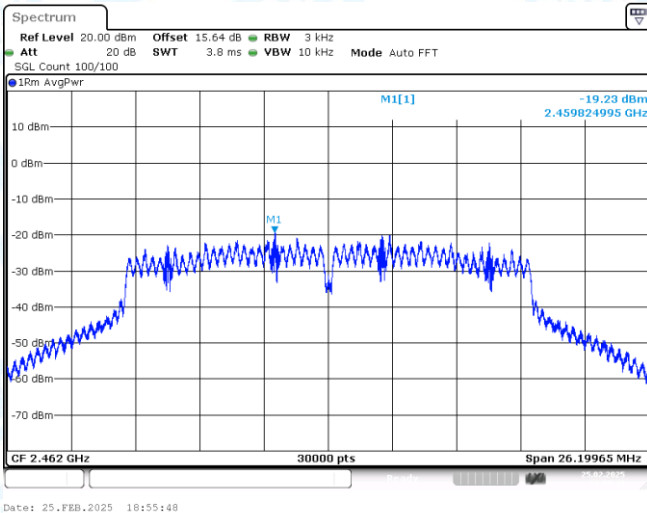
11G-CDD-Ant2-2412-PASS



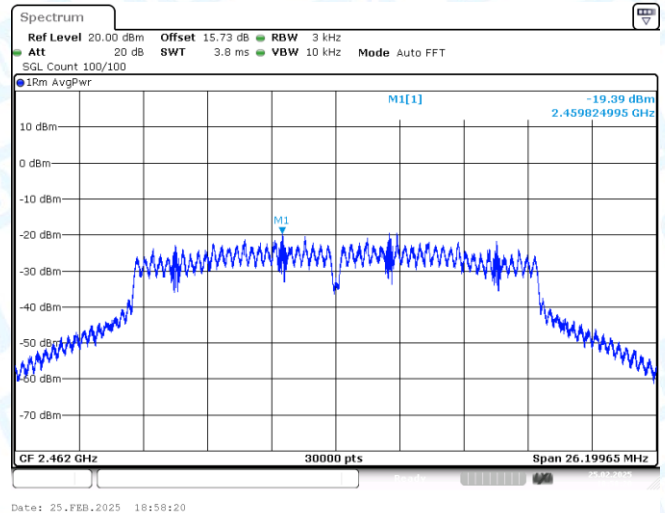
11G-CDD-Ant1-2437-PASS



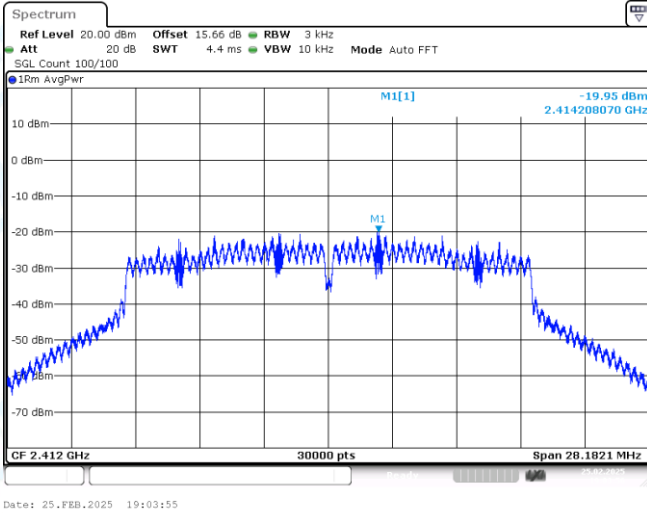
11G-CDD-Ant2-2437-PASS



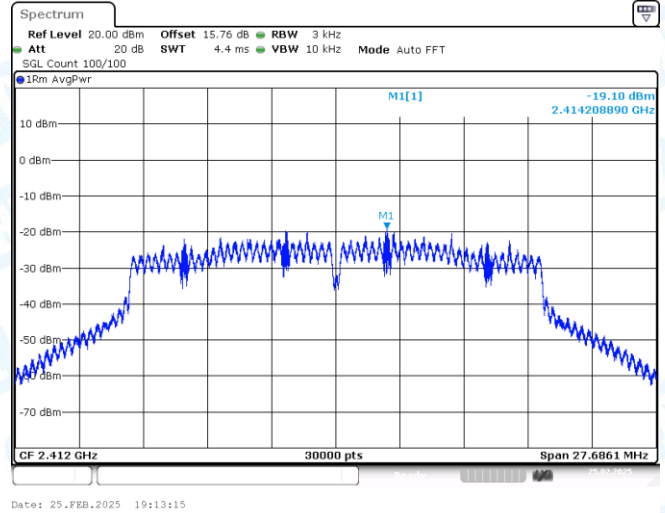
11G-CDD-Ant1-2462-PASS



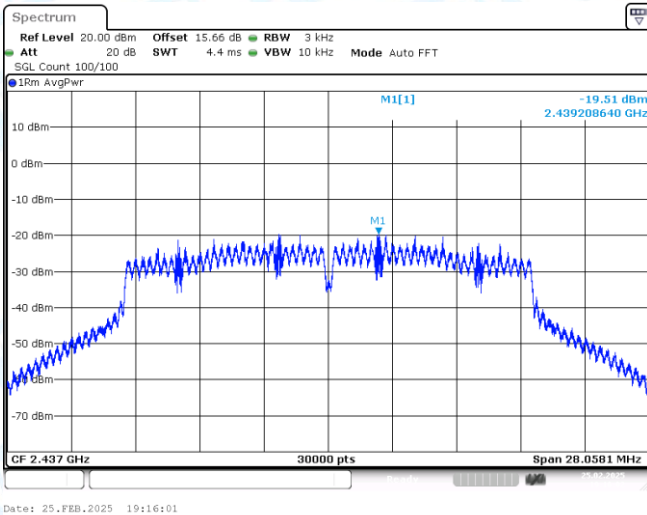
11G-CDD-Ant2-2462-PASS



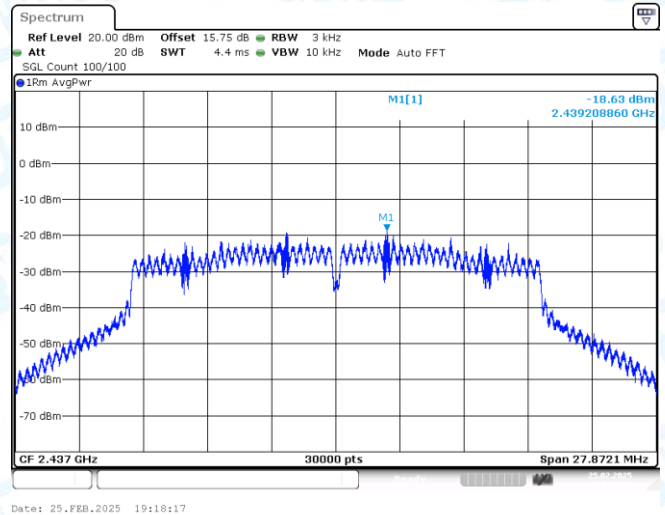
11N20MIMO-Ant1-2412-PASS



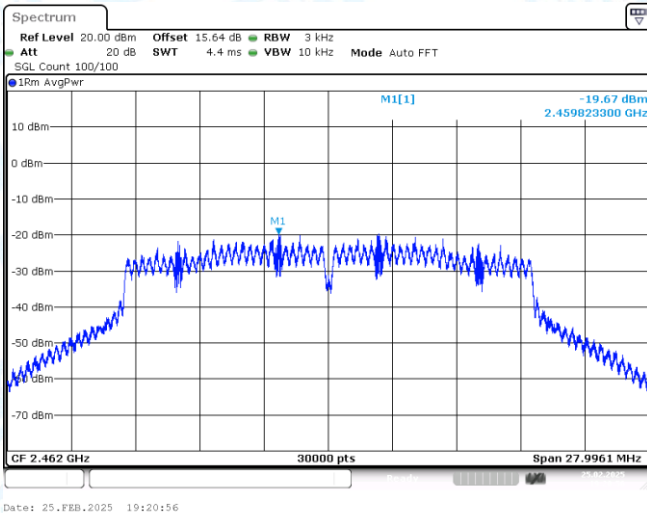
11N20MIMO-Ant2-2412-PASS



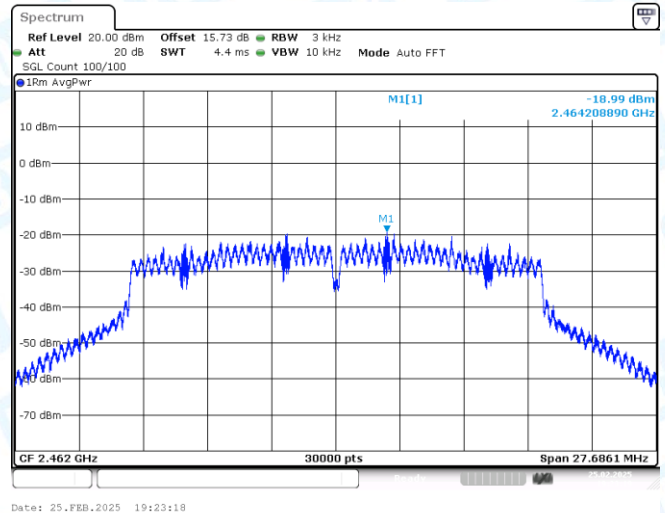
11N20MIMO-Ant1-2437-PASS



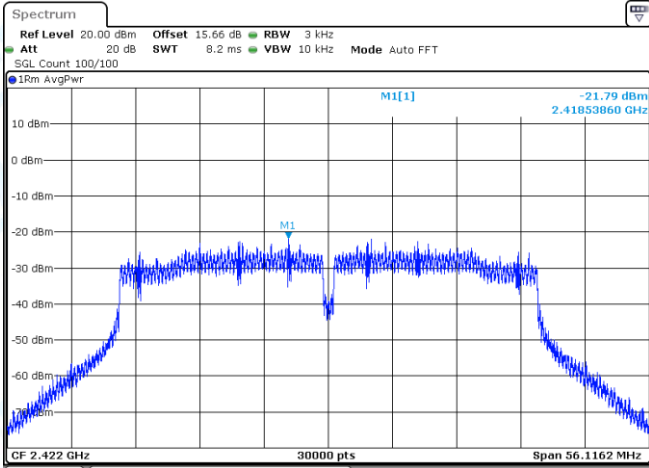
11N20MIMO-Ant2-2437-PASS



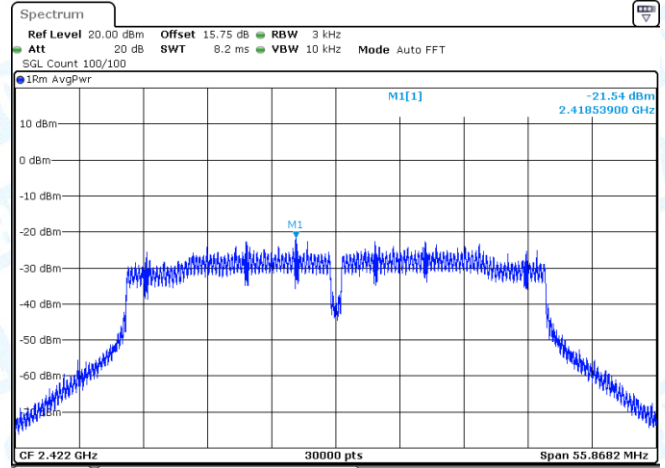
11N20MIMO-Ant1-2462-PASS



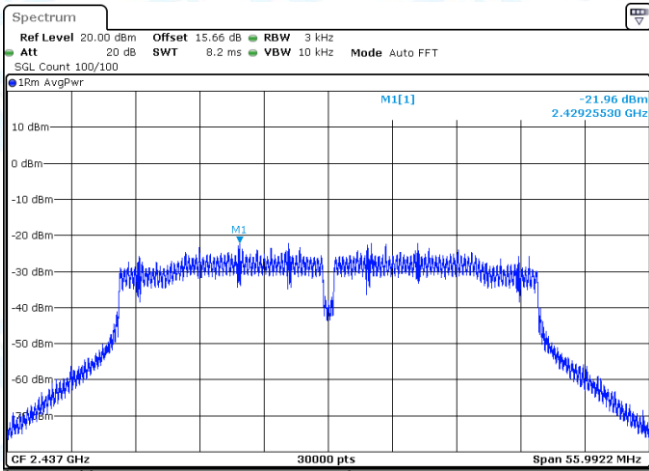
11N20MIMO-Ant2-2462-PASS



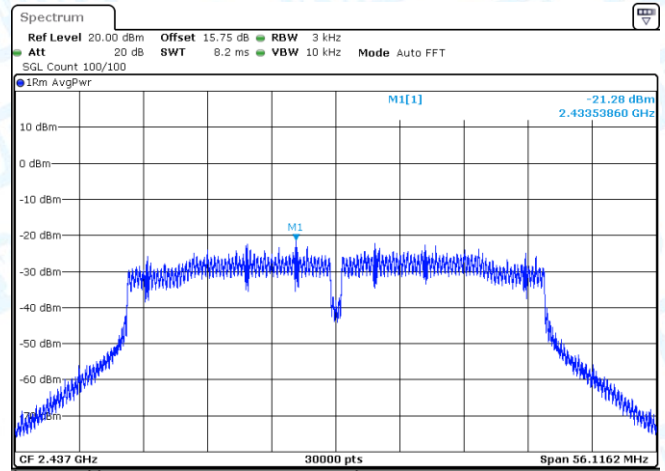
11N40MIMO-Ant1-2422-PASS



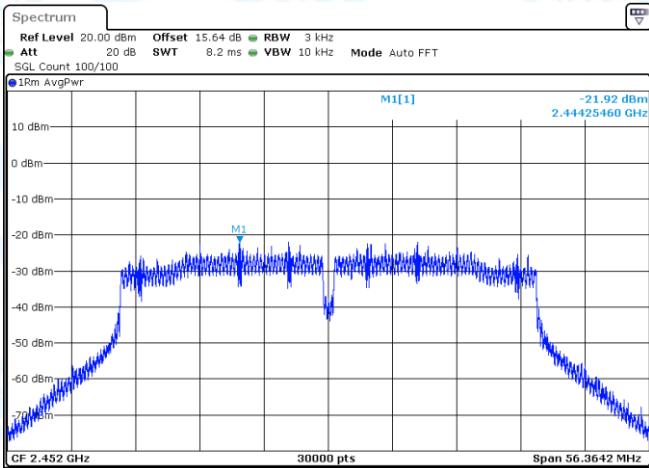
11N40MIMO-Ant2-2422-PASS



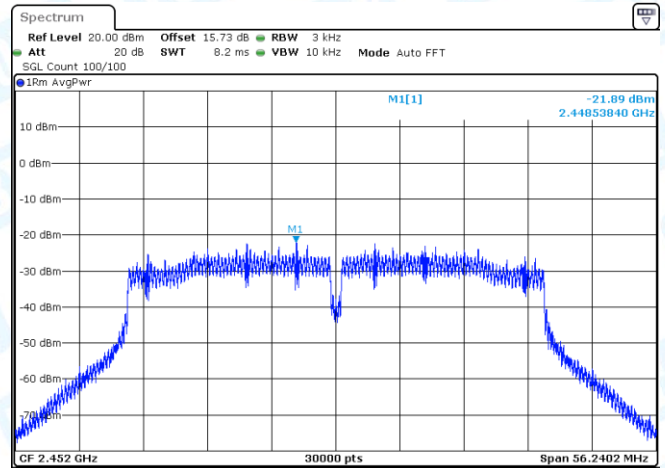
11N40MIMO-Ant1-2437-PASS



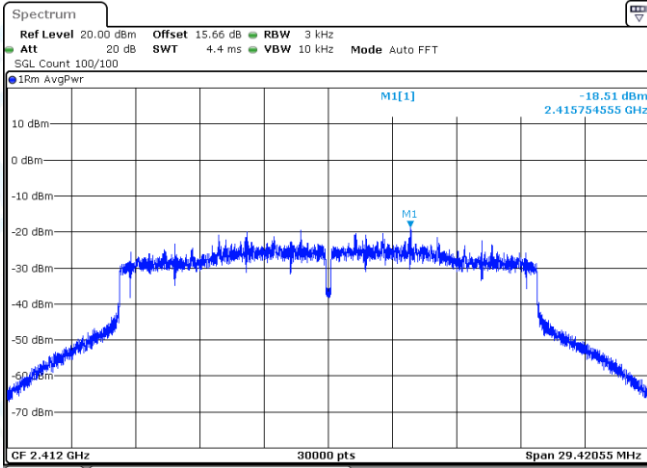
11N40MIMO-Ant2-2437-PASS



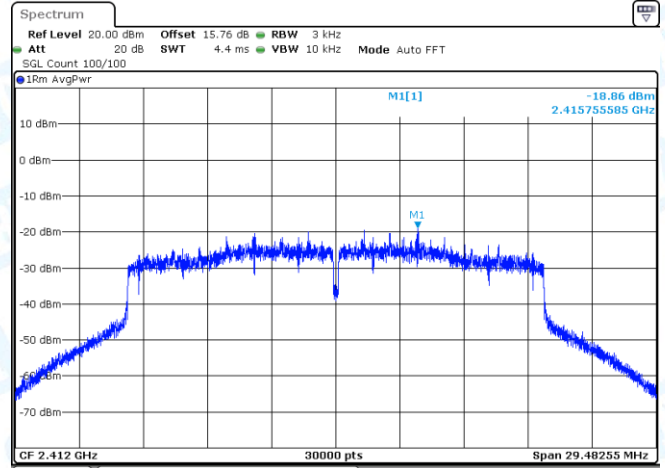
11N40MIMO-Ant1-2452-PASS



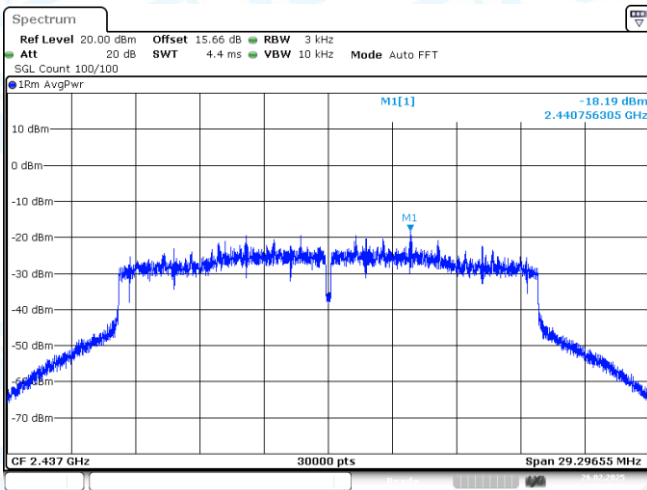
11N40MIMO-Ant2-2452-PASS



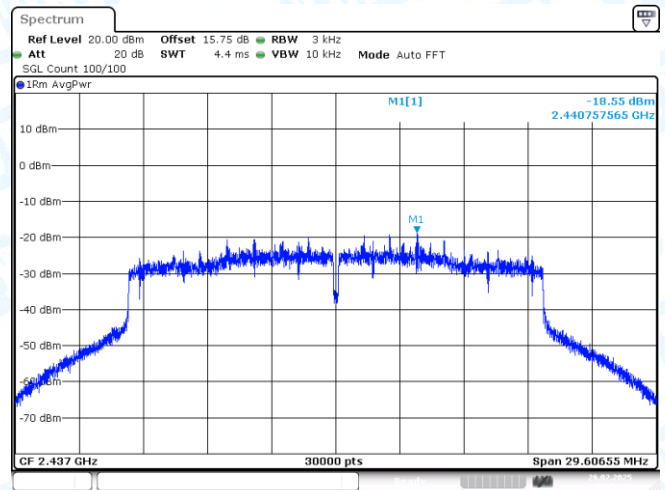
11AX20MIMO-Ant1-2412-PASS



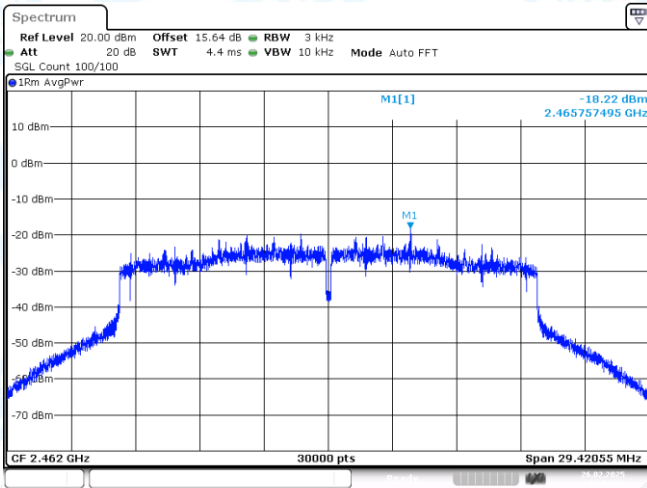
11AX20MIMO-Ant2-2412-PASS



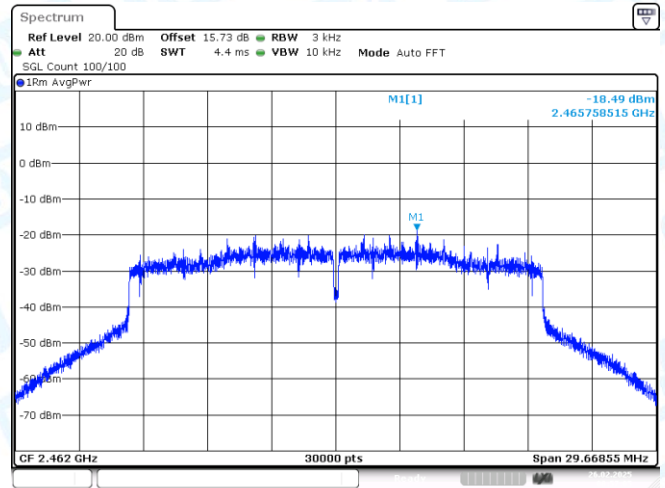
11AX20MIMO-Ant1-2437-PASS



11AX20MIMO-Ant2-2437-PASS



11AX20MIMO-Ant1-2462-PASS



11AX20MIMO-Ant2-2462-PASS