

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

General Description of EUT	
EUT Name:	WiFi MiNi Router
Model:	WR09
Sample ID:	HC-C-202405-0242-03-02#
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	23.5°C
Ambient Humidity:	47%RH
Test Power Supply:	AC 120V/60Hz
Test Engineer:	Mike Yan
Note: For a more detailed features description, please refer to the report TBR-C-202405-0242-16	

Contents

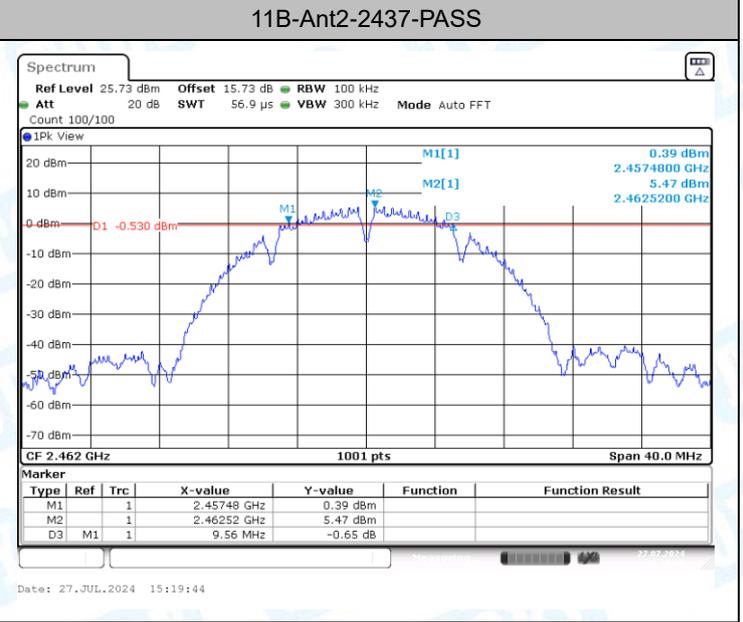
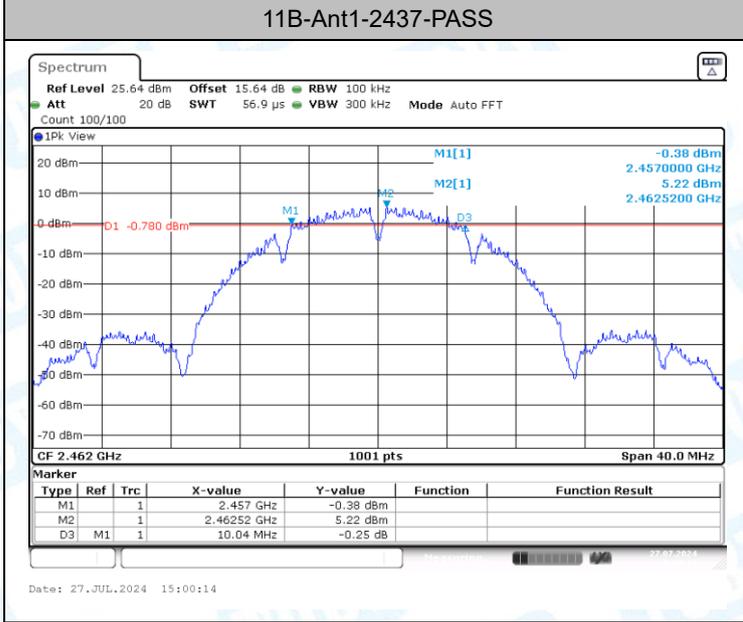
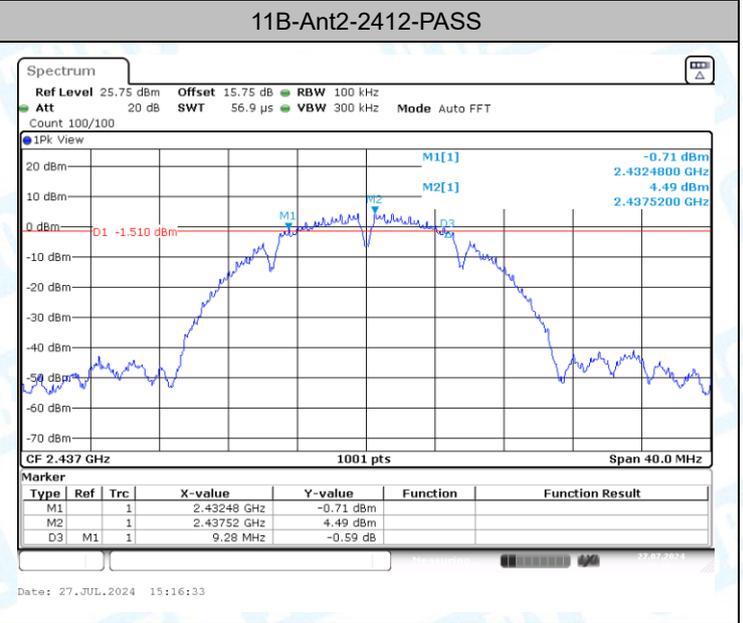
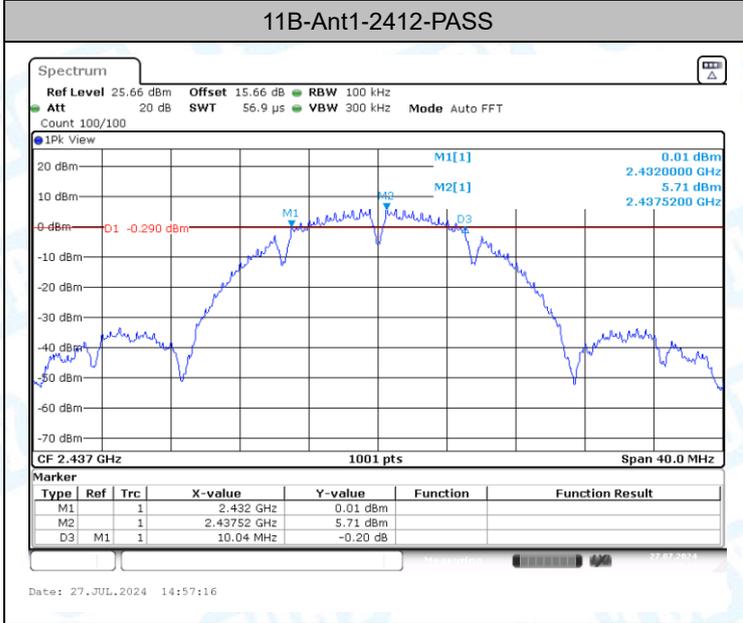
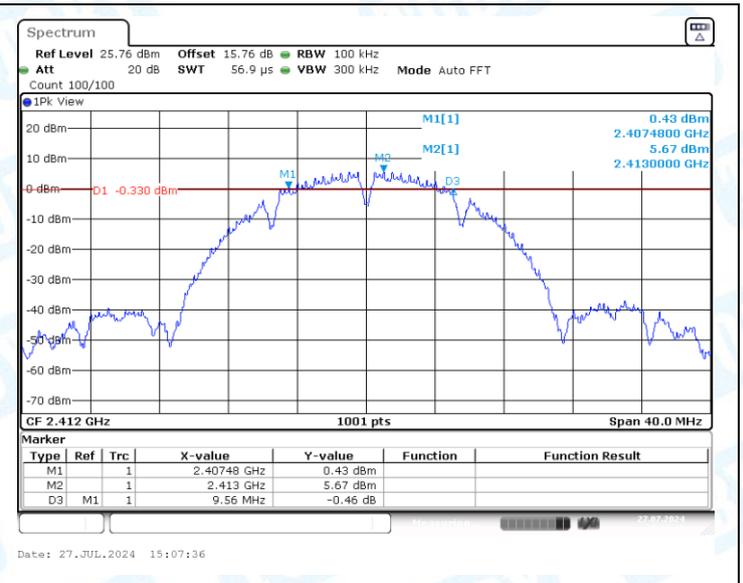
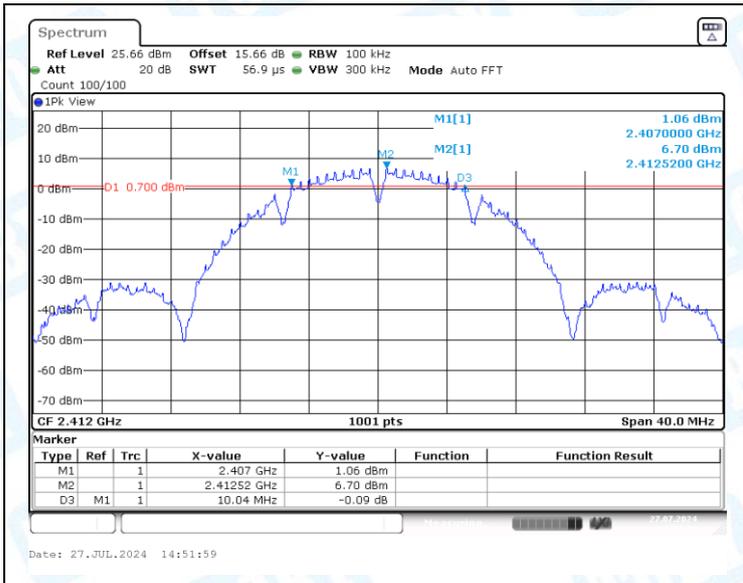
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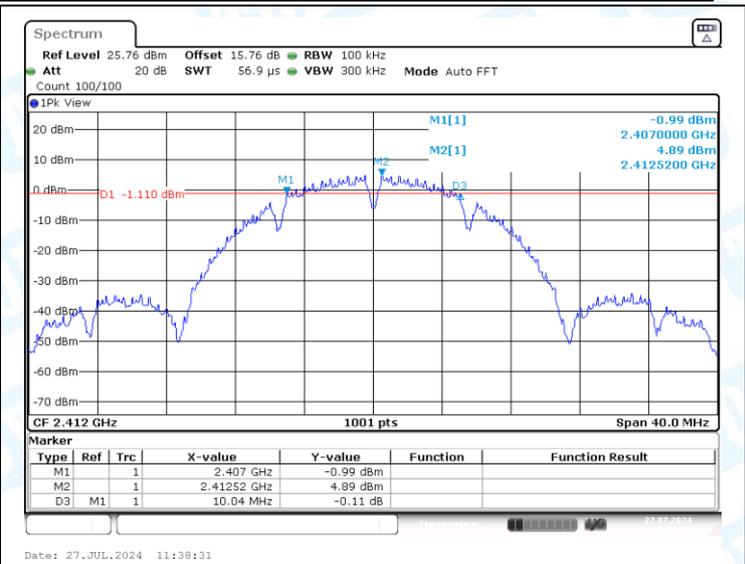
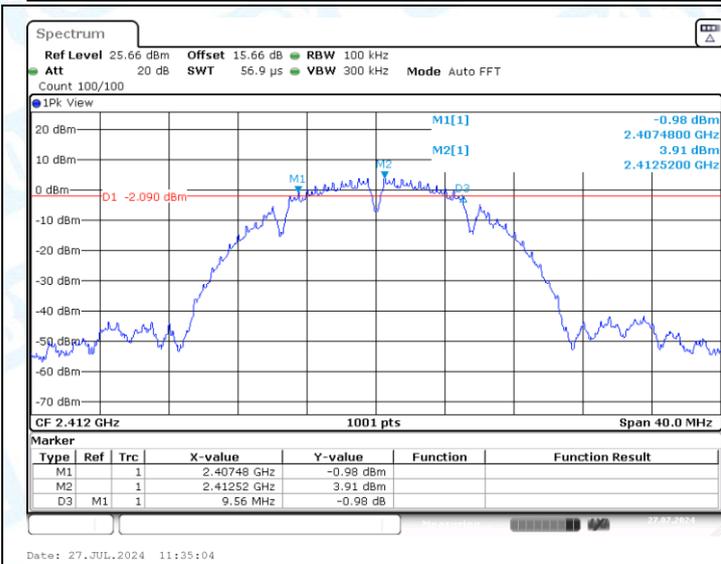
1: DTS Bandwidth

1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.04	2407.00	2417.04	0.5	PASS
11B	Ant2	2412	9.56	2407.48	2417.04	0.5	PASS
11B	Ant1	2437	10.04	2432.00	2442.04	0.5	PASS
11B	Ant2	2437	9.28	2432.48	2441.76	0.5	PASS
11B	Ant1	2462	10.04	2457.00	2467.04	0.5	PASS
11B	Ant2	2462	9.56	2457.48	2467.04	0.5	PASS
11B-CDD	Ant1	2412	9.56	2407.48	2417.04	0.5	PASS
11B-CDD	Ant2	2412	10.04	2407.00	2417.04	0.5	PASS
11B-CDD	Ant1	2437	9.80	2432.24	2442.04	0.5	PASS
11B-CDD	Ant2	2437	10.04	2432.00	2442.04	0.5	PASS
11B-CDD	Ant1	2462	9.56	2457.48	2467.04	0.5	PASS
11B-CDD	Ant2	2462	10.04	2457.00	2467.04	0.5	PASS
11G	Ant1	2412	15.08	2404.48	2419.56	0.5	PASS
11G	Ant2	2412	16.32	2403.88	2420.20	0.5	PASS
11G	Ant1	2437	15.32	2429.24	2444.56	0.5	PASS
11G	Ant2	2437	16.32	2428.88	2445.20	0.5	PASS
11G	Ant1	2462	15.08	2454.48	2469.56	0.5	PASS
11G	Ant2	2462	15.12	2454.48	2469.60	0.5	PASS
11G-CDD	Ant1	2412	15.36	2404.52	2419.88	0.5	PASS
11G-CDD	Ant2	2412	15.08	2404.48	2419.56	0.5	PASS
11G-CDD	Ant1	2437	15.08	2429.48	2444.56	0.5	PASS
11G-CDD	Ant2	2437	15.08	2429.48	2444.56	0.5	PASS
11G-CDD	Ant1	2462	15.08	2454.48	2469.56	0.5	PASS
11G-CDD	Ant2	2462	15.92	2454.24	2470.16	0.5	PASS
11N20-CDD	Ant1	2412	17.56	2403.20	2420.76	0.5	PASS
11N20-CDD	Ant2	2412	13.88	2405.68	2419.56	0.5	PASS
11N20-CDD	Ant1	2437	15.08	2429.44	2444.52	0.5	PASS
11N20-CDD	Ant2	2437	16.92	2428.84	2445.76	0.5	PASS
11N20-CDD	Ant1	2462	17.20	2453.24	2470.44	0.5	PASS
11N20-CDD	Ant2	2462	12.60	2455.72	2468.32	0.5	PASS
11N40-CDD	Ant1	2422	30.08	2405.68	2435.76	0.5	PASS
11N40-CDD	Ant2	2422	32.56	2406.96	2439.52	0.5	PASS
11N40-CDD	Ant1	2437	35.12	2419.40	2454.52	0.5	PASS
11N40-CDD	Ant2	2437	26.96	2427.56	2454.52	0.5	PASS
11N40-CDD	Ant1	2452	35.04	2434.48	2469.52	0.5	PASS
11N40-CDD	Ant2	2452	35.20	2434.40	2469.60	0.5	PASS

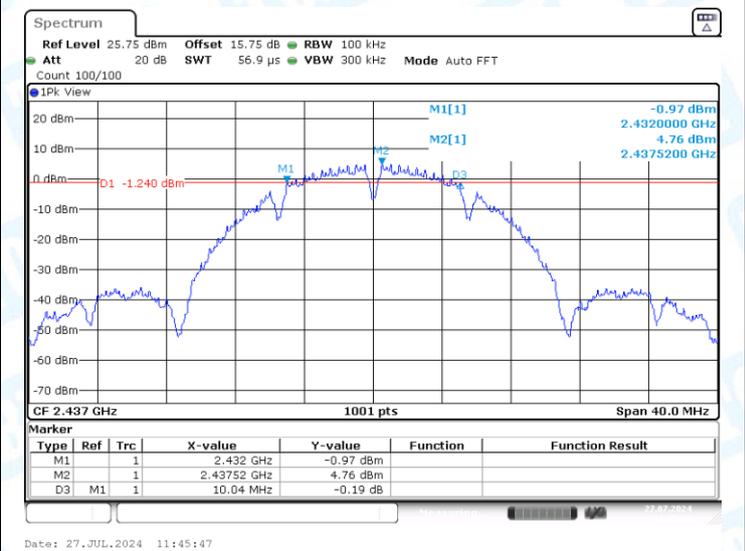
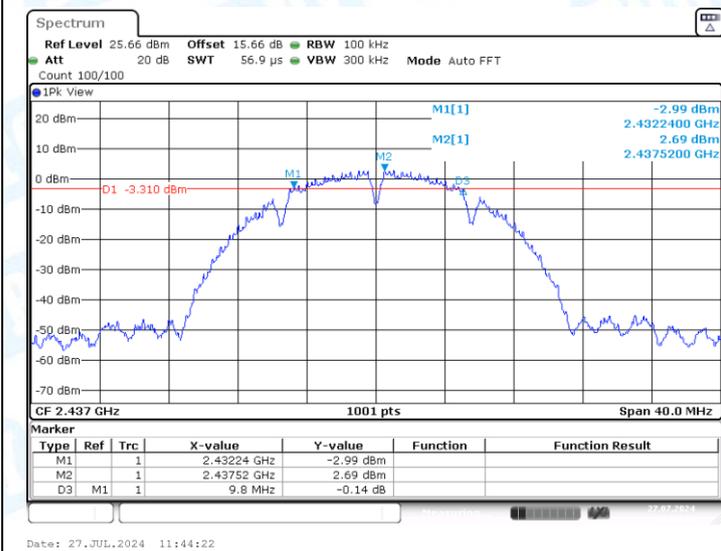
1.2 Test Graphs





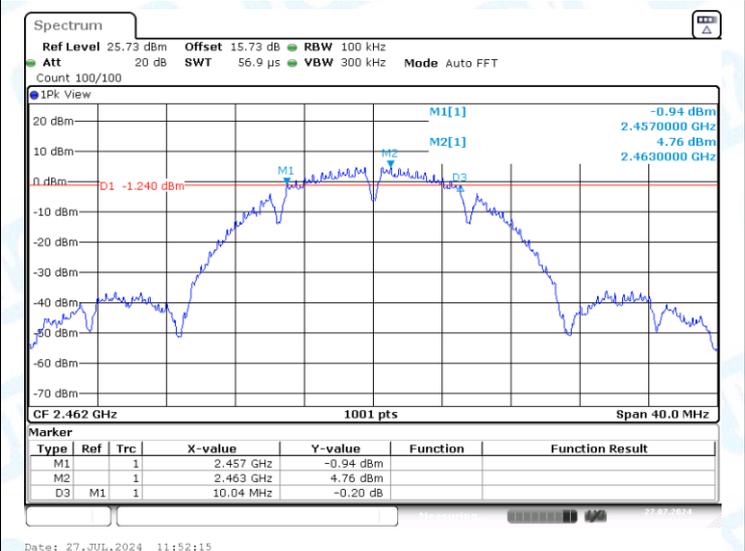
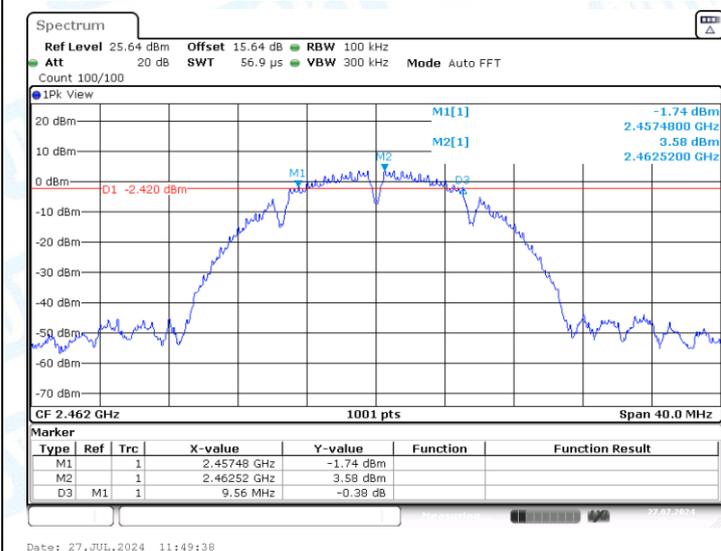
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11B-CDD-Ant2-2412-PASS



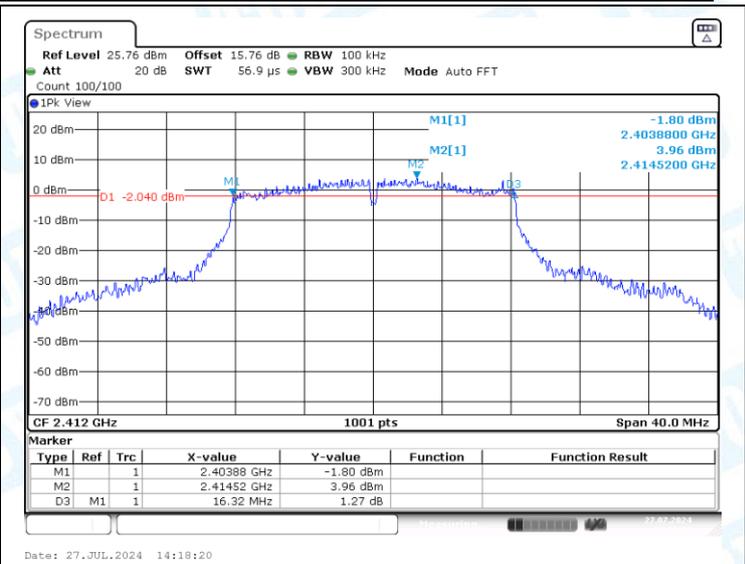
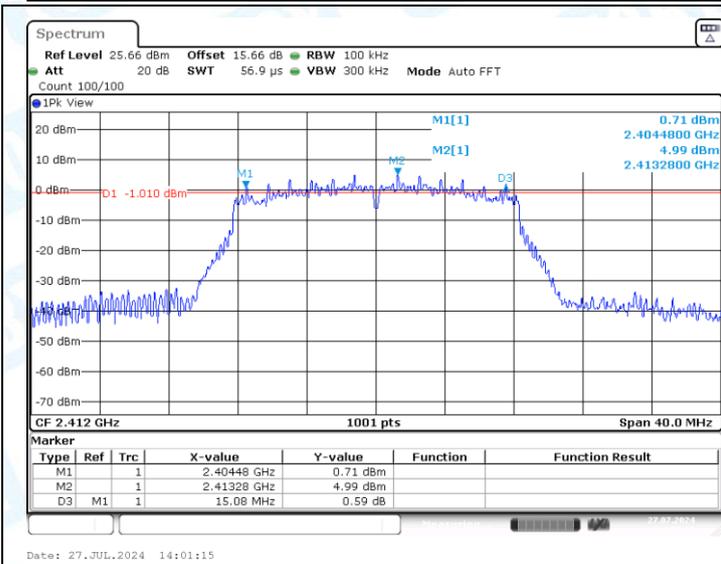
11B-CDD-Ant1-2437-PASS

11B-CDD-Ant2-2437-PASS



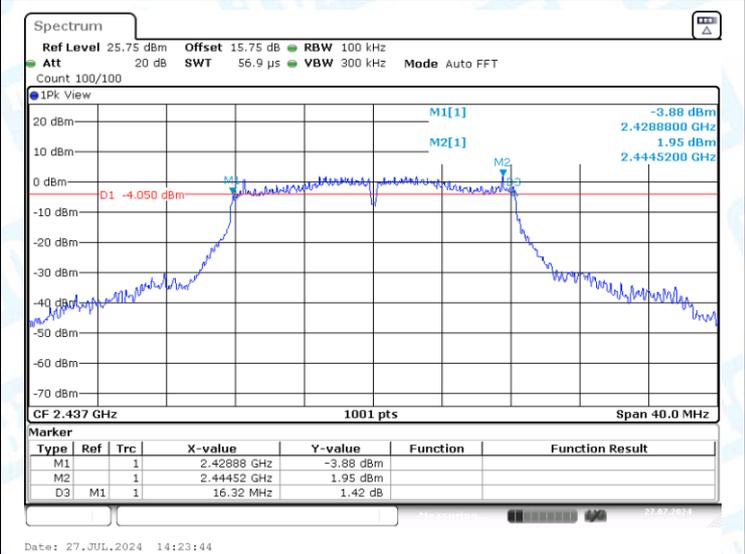
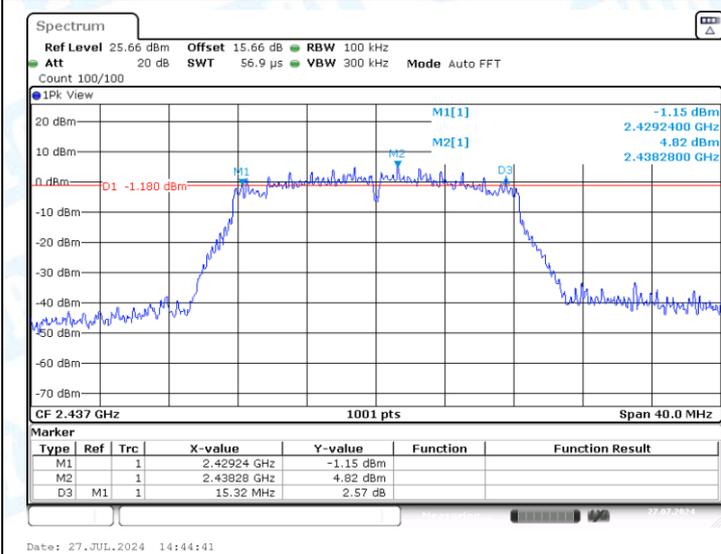
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11B-CDD-Ant2-2462-PASS



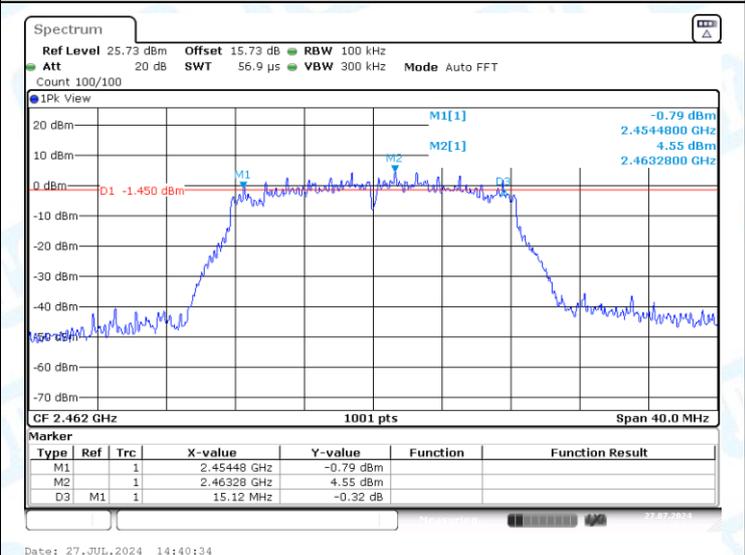
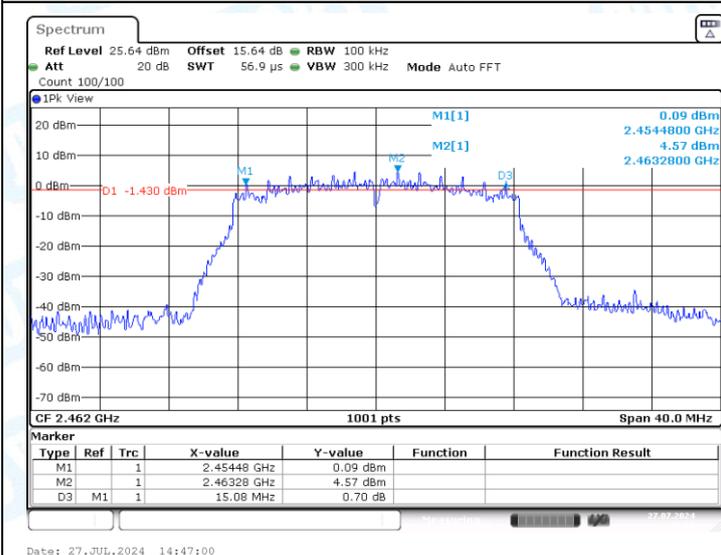
11G-Ant1-2412-PASS

11G-Ant2-2412-PASS



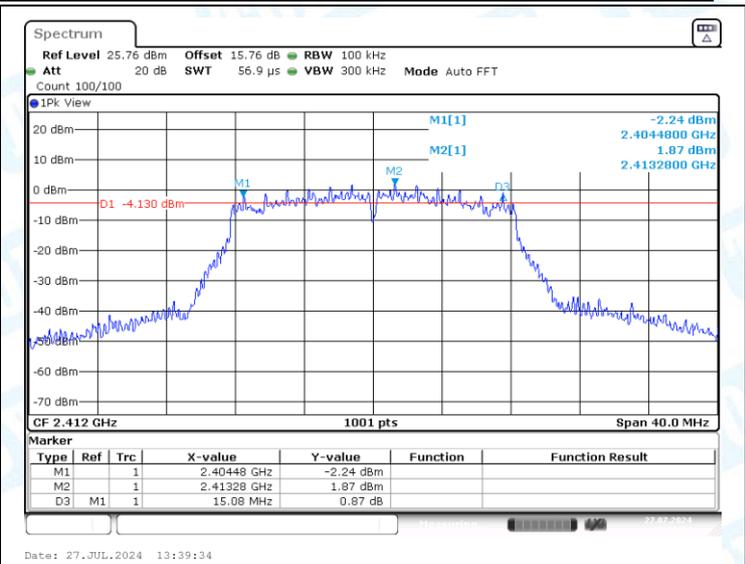
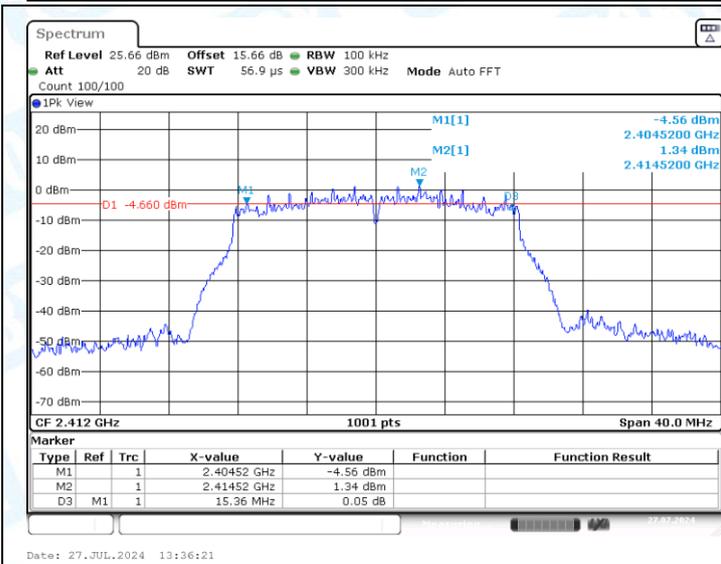
11G-Ant1-2437-PASS

11G-Ant2-2437-PASS



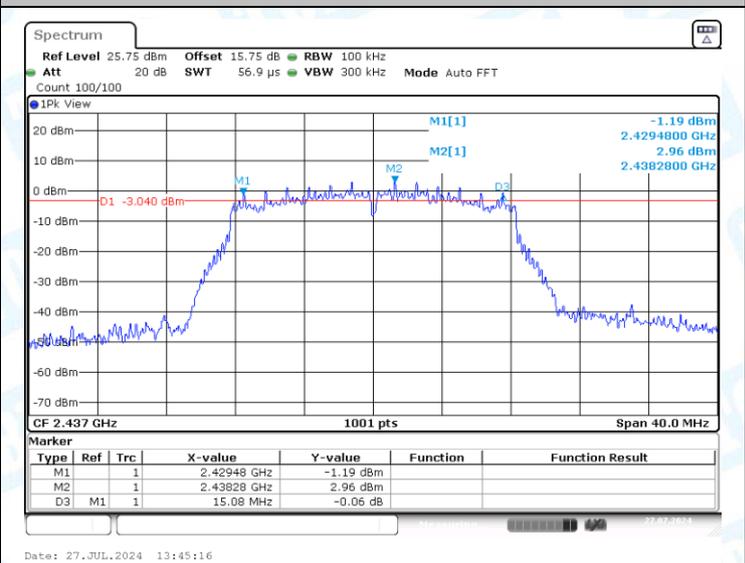
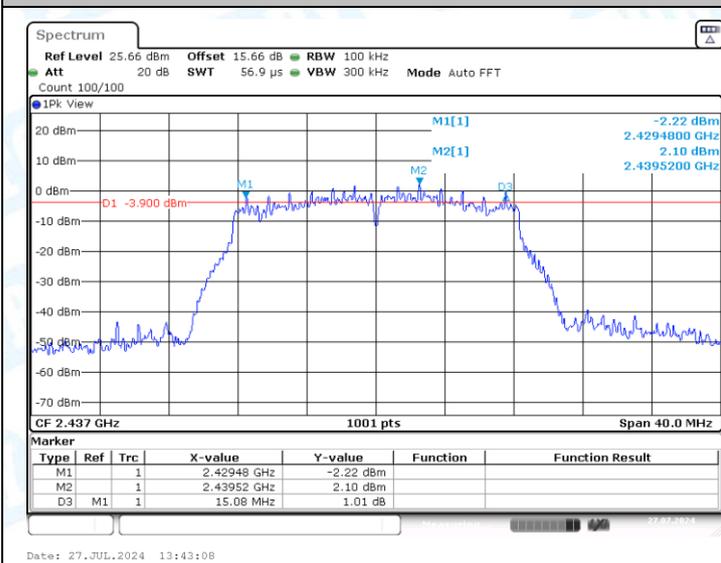
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11G-Ant2-2462-PASS



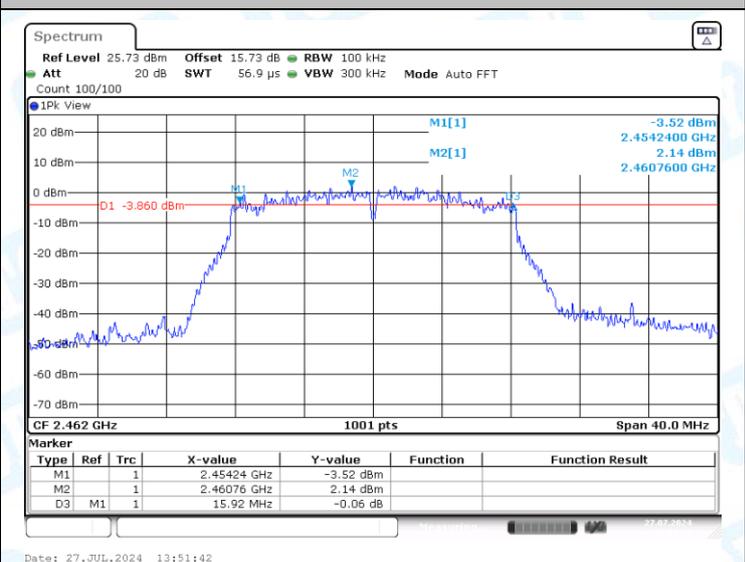
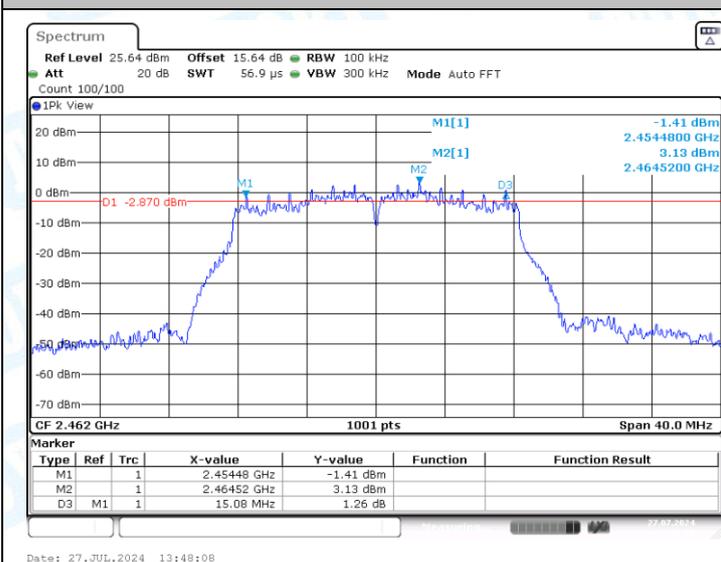
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11G-CDD-Ant2-2412-PASS



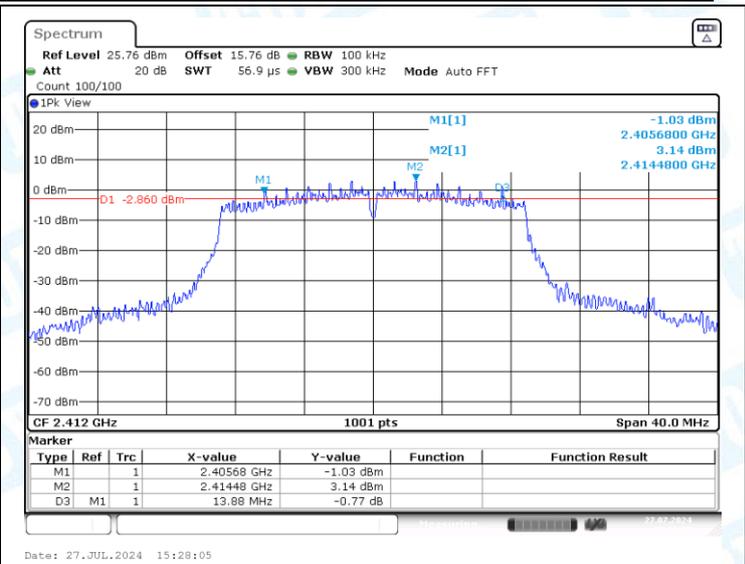
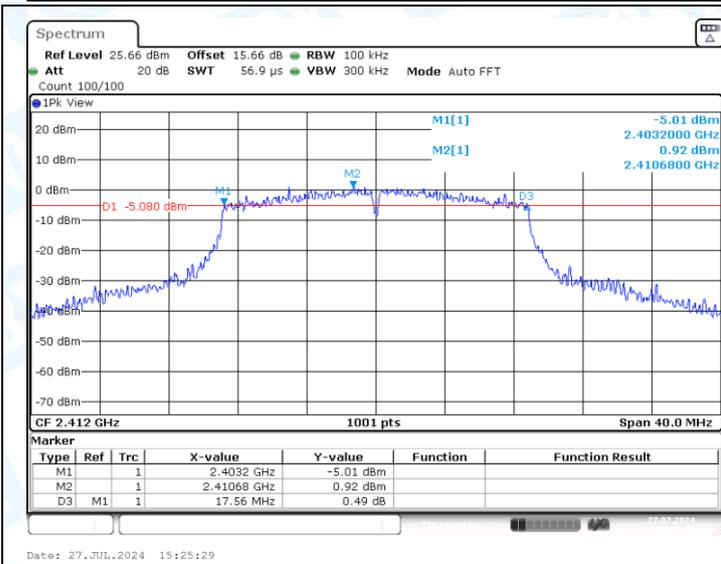
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11G-CDD-Ant2-2437-PASS



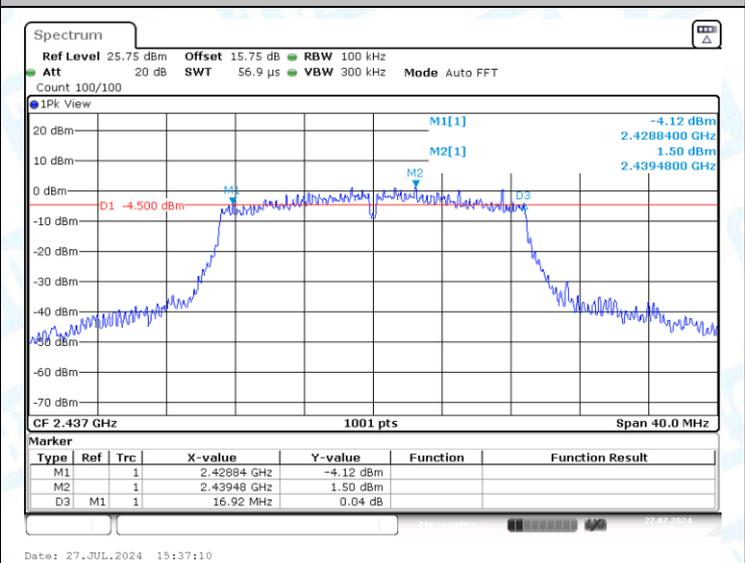
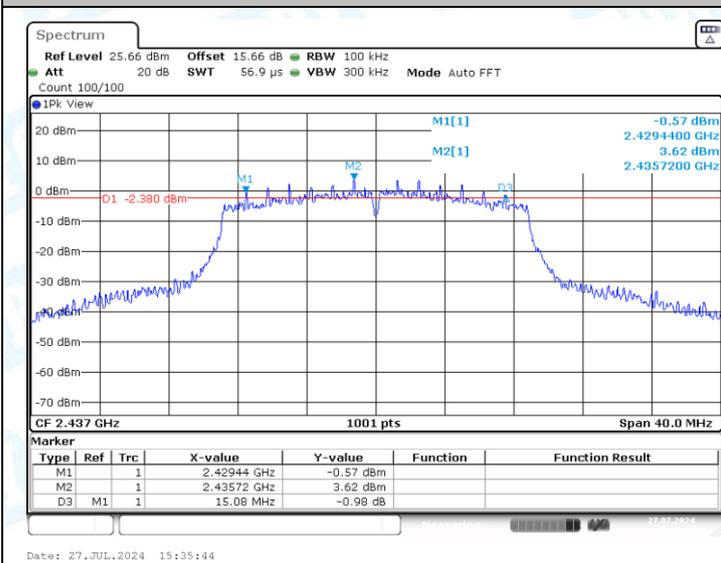
11G-CDD-Ant1-2462-PASS

11G-CDD-Ant2-2462-PASS



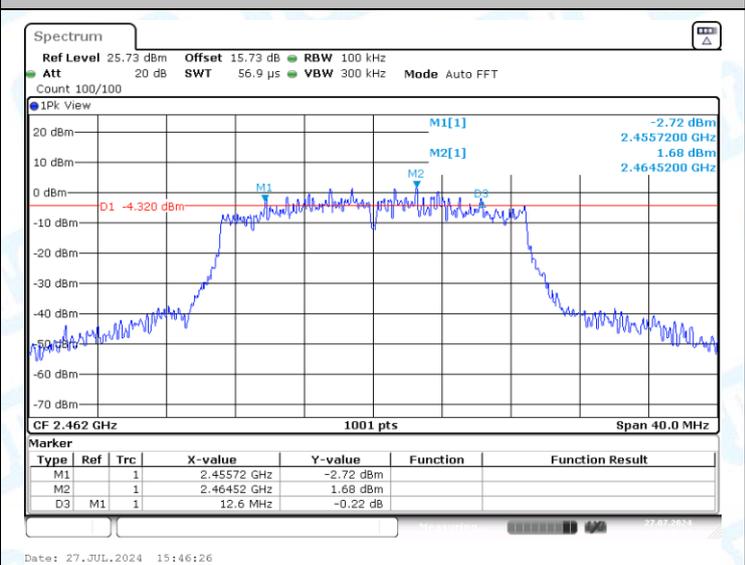
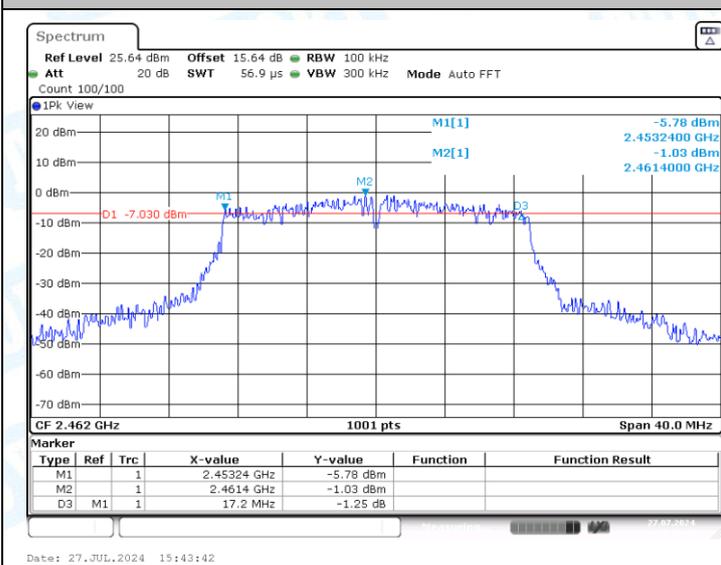
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11N20-CDD-Ant2-2412-PASS



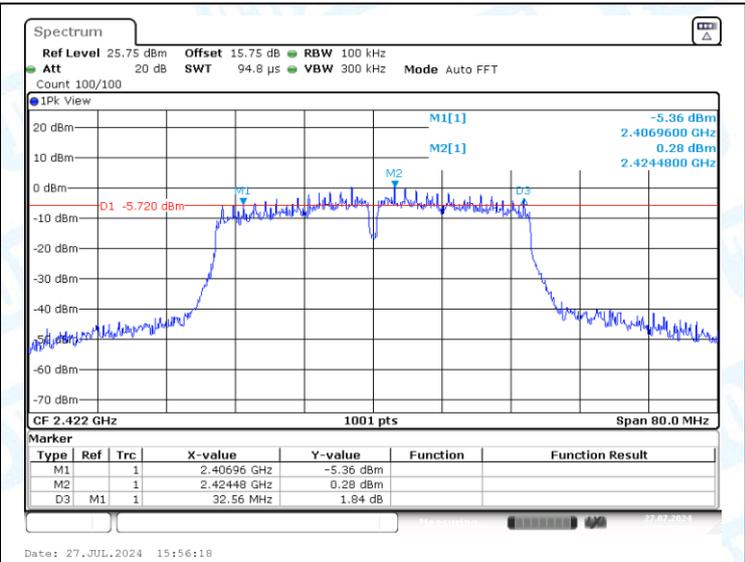
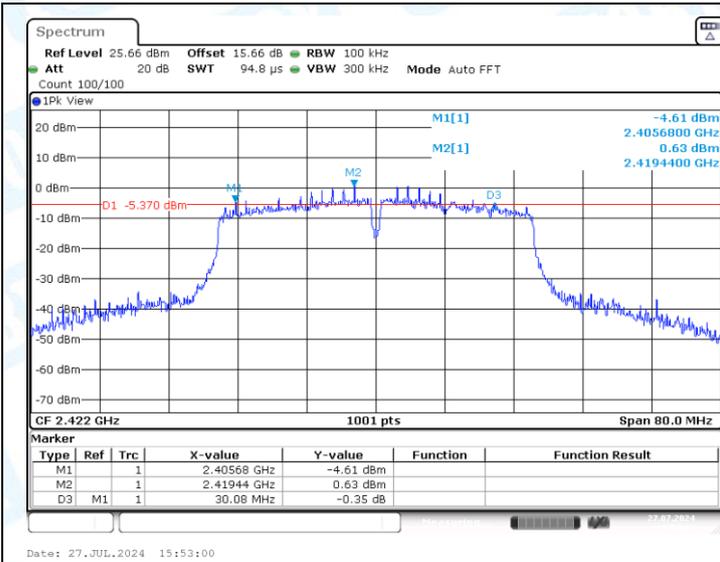
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11N20-CDD-Ant2-2437-PASS



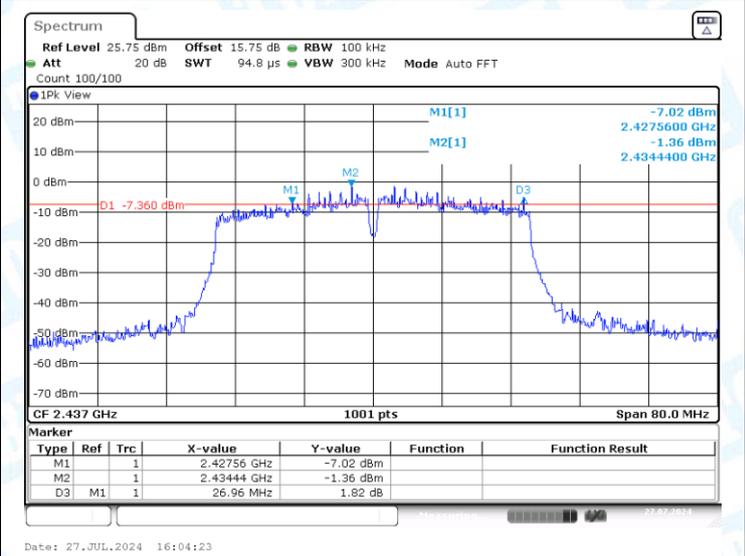
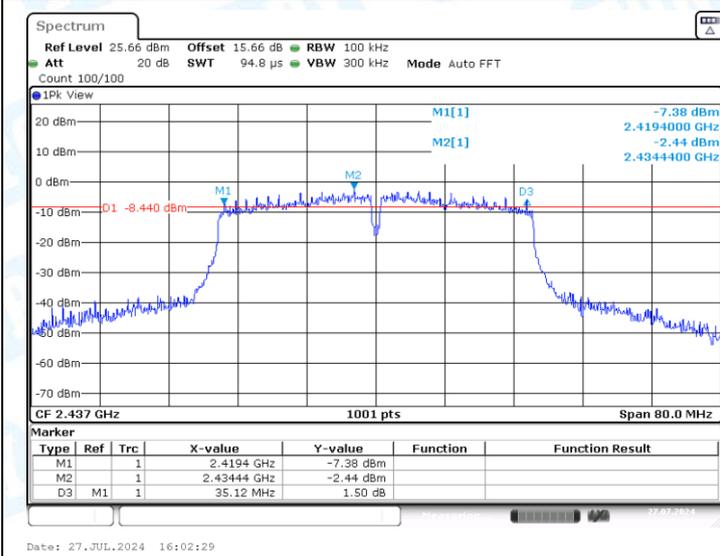
11N20-CDD-Ant1-2462-PASS

11N20-CDD-Ant2-2462-PASS



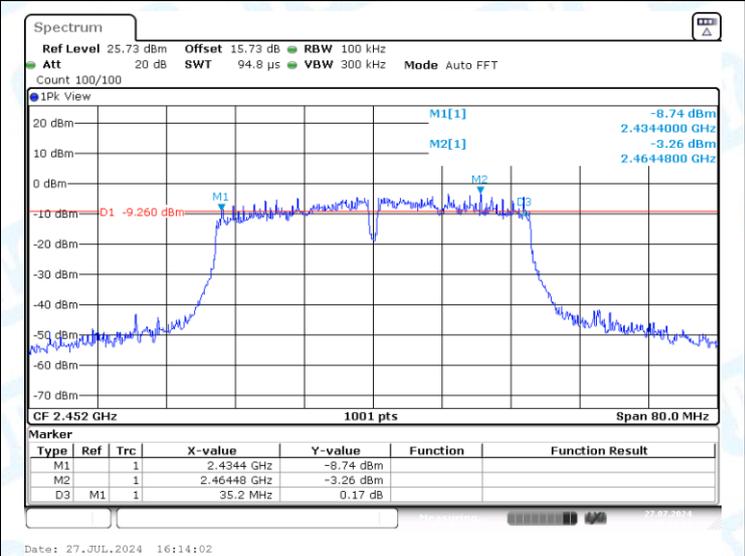
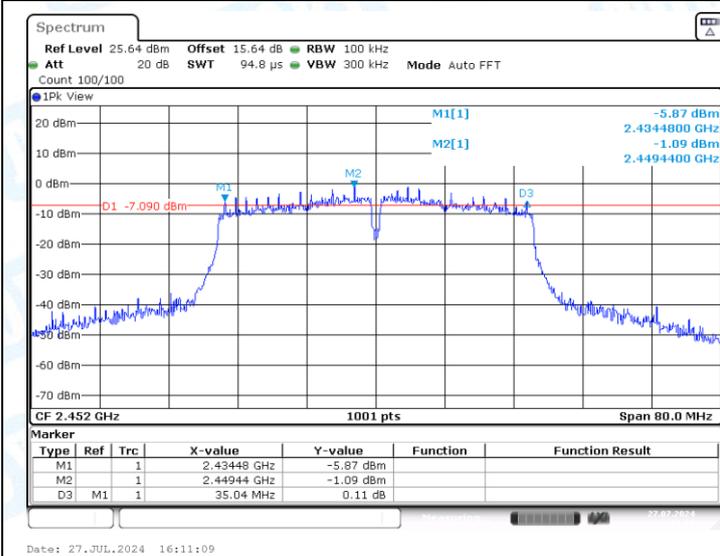
11N40-CDD-Ant1-2422-PASS

11N40-CDD-Ant2-2422-PASS



11N40-CDD-Ant1-2437-PASS

11N40-CDD-Ant2-2437-PASS



11N40-CDD-Ant1-2452-PASS

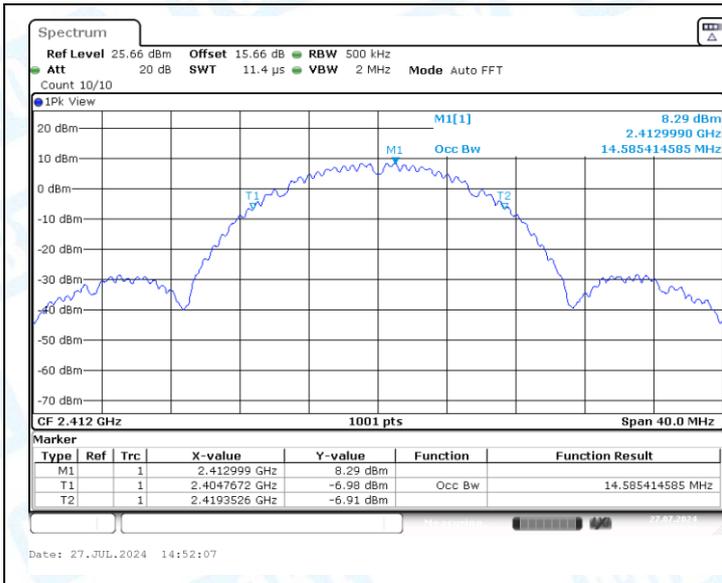
11N40-CDD-Ant2-2452-PASS

2: Occupied Channel Bandwidth

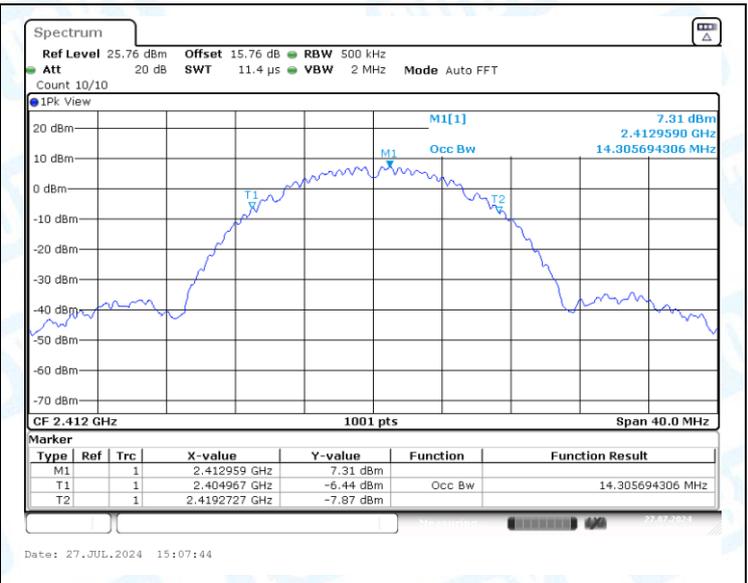
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.585	2404.7672	2419.3526	---	---
11B	Ant2	2412	14.306	2404.9670	2419.2727	---	---
11B	Ant1	2437	14.386	2429.8472	2444.2328	---	---
11B	Ant2	2437	14.146	2430.0470	2444.1928	---	---
11B	Ant1	2462	14.346	2454.8472	2469.1928	---	---
11B	Ant2	2462	14.186	2455.0470	2469.2328	---	---
11B-CDD	Ant1	2412	14.186	2405.0070	2419.1928	---	---
11B-CDD	Ant2	2412	14.426	2404.8472	2419.2727	---	---
11B-CDD	Ant1	2437	14.146	2430.0470	2444.1928	---	---
11B-CDD	Ant2	2437	14.386	2429.8472	2444.2328	---	---
11B-CDD	Ant1	2462	14.146	2455.0470	2469.1928	---	---
11B-CDD	Ant2	2462	14.306	2454.8871	2469.1928	---	---
11G	Ant1	2412	16.424	2403.8482	2420.2717	---	---
11G	Ant2	2412	16.623	2403.7283	2420.3516	---	---
11G	Ant1	2437	16.743	2428.5684	2445.3117	---	---
11G	Ant2	2437	16.703	2428.7682	2445.4715	---	---
11G	Ant1	2462	16.663	2453.7283	2470.3916	---	---
11G	Ant2	2462	16.503	2453.8881	2470.3916	---	---
11G-CDD	Ant1	2412	16.583	2403.8082	2420.3916	---	---
11G-CDD	Ant2	2412	16.983	2403.4086	2420.3916	---	---
11G-CDD	Ant1	2437	16.424	2428.8482	2445.2717	---	---
11G-CDD	Ant2	2437	16.464	2428.8082	2445.2717	---	---
11G-CDD	Ant1	2462	16.623	2453.7283	2470.3516	---	---
11G-CDD	Ant2	2462	16.663	2453.6883	2470.3516	---	---
11N20-CDD	Ant1	2412	17.902	2403.0490	2420.9510	---	---
11N20-CDD	Ant2	2412	17.622	2403.2088	2420.8312	---	---
11N20-CDD	Ant1	2437	17.822	2428.0889	2445.9111	---	---
11N20-CDD	Ant2	2437	17.542	2428.3287	2445.8711	---	---
11N20-CDD	Ant1	2462	17.622	2453.1688	2470.7912	---	---
11N20-CDD	Ant2	2462	17.702	2453.1688	2470.8711	---	---
11N40-CDD	Ant1	2422	35.964	2404.0180	2439.9820	---	---
11N40-CDD	Ant2	2422	36.044	2403.9381	2439.9820	---	---
11N40-CDD	Ant1	2437	35.804	2419.0979	2454.9021	---	---
11N40-CDD	Ant2	2437	36.124	2419.0180	2455.1419	---	---
11N40-CDD	Ant1	2452	36.124	2433.7782	2469.9021	---	---
11N40-CDD	Ant2	2452	35.884	2434.1778	2470.0619	---	---

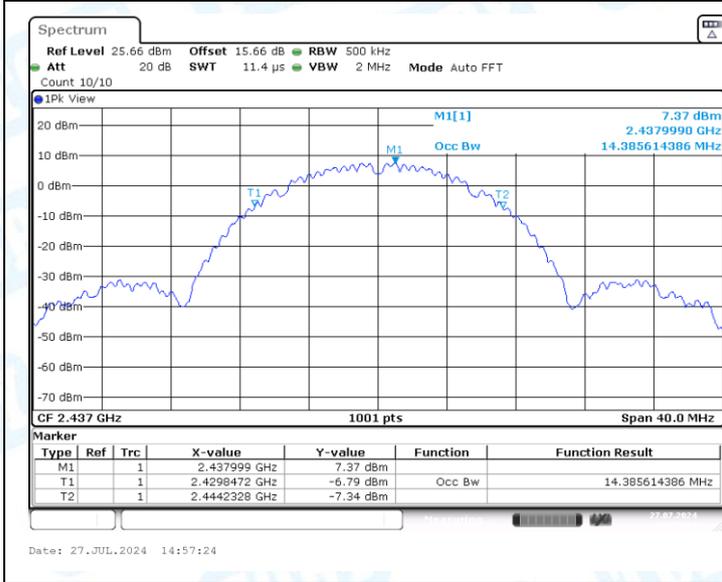
2.2 Test Graphs



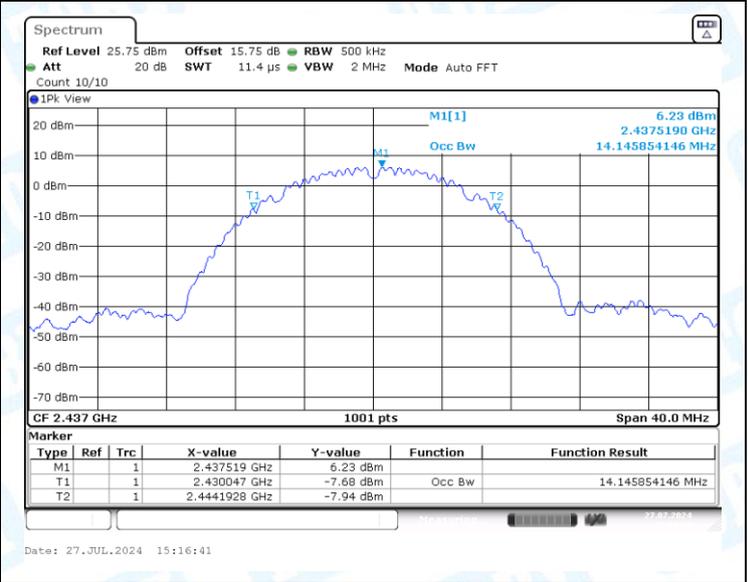
11B-Ant1-2412



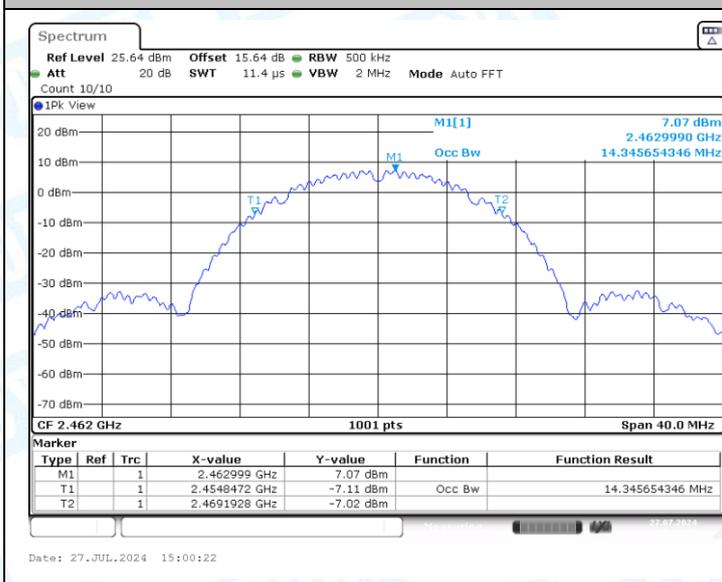
11B-Ant2-2412



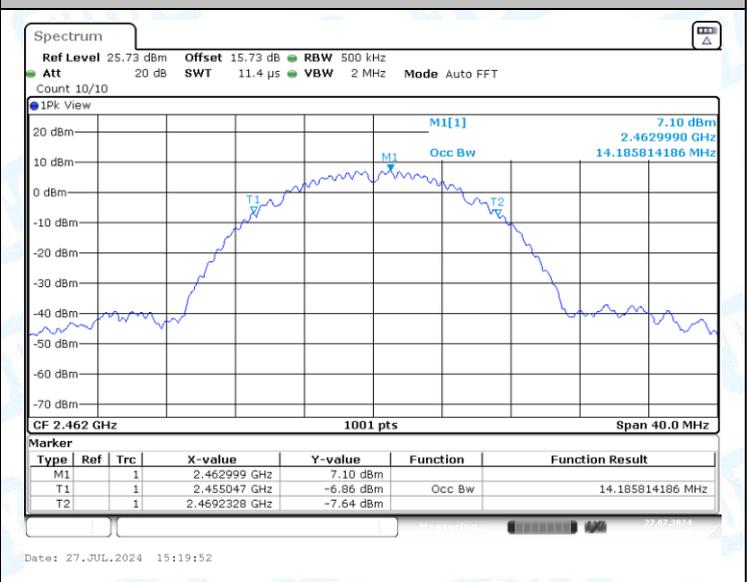
11B-Ant1-2437



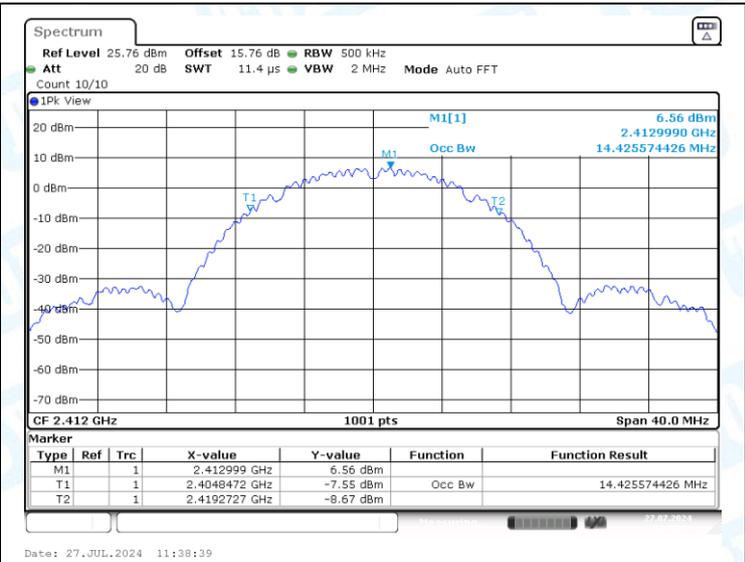
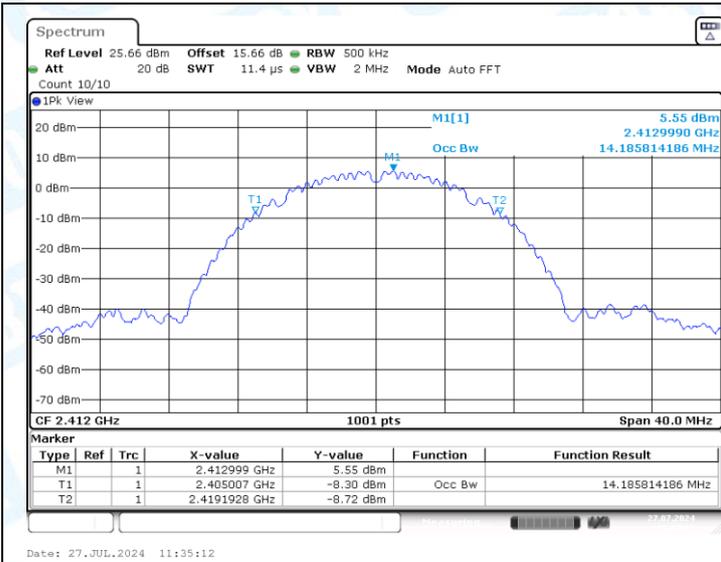
11B-Ant2-2437



11B-Ant1-2462

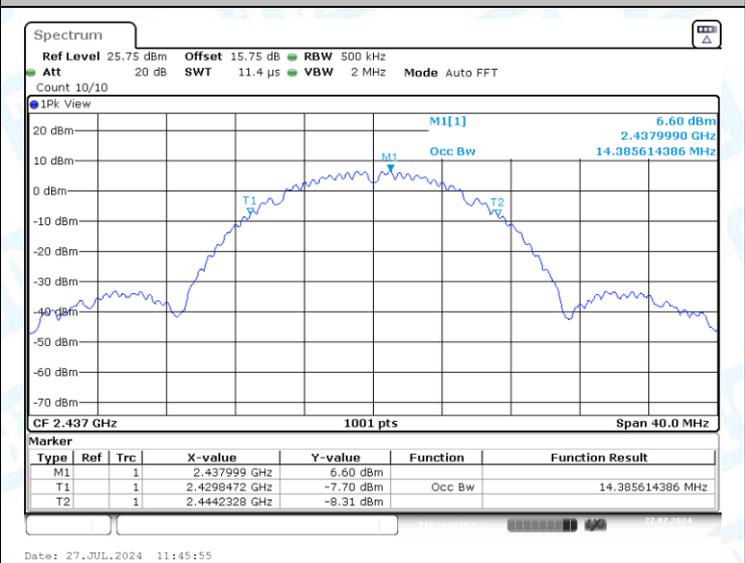
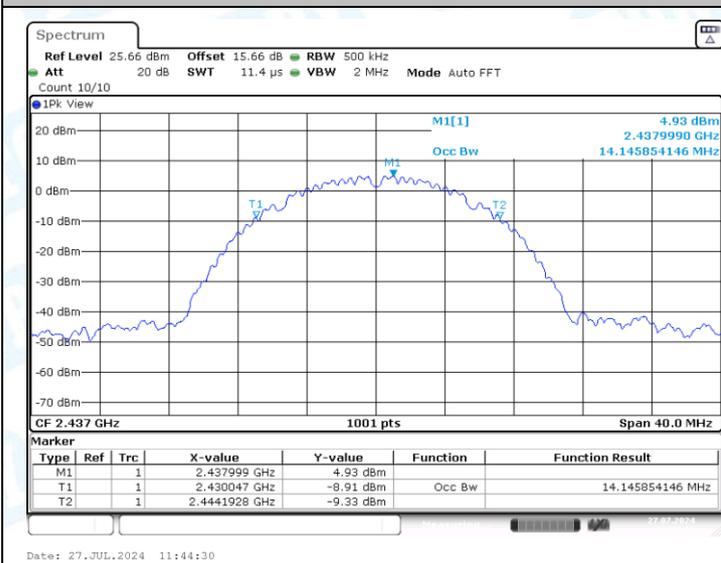


11B-Ant2-2462



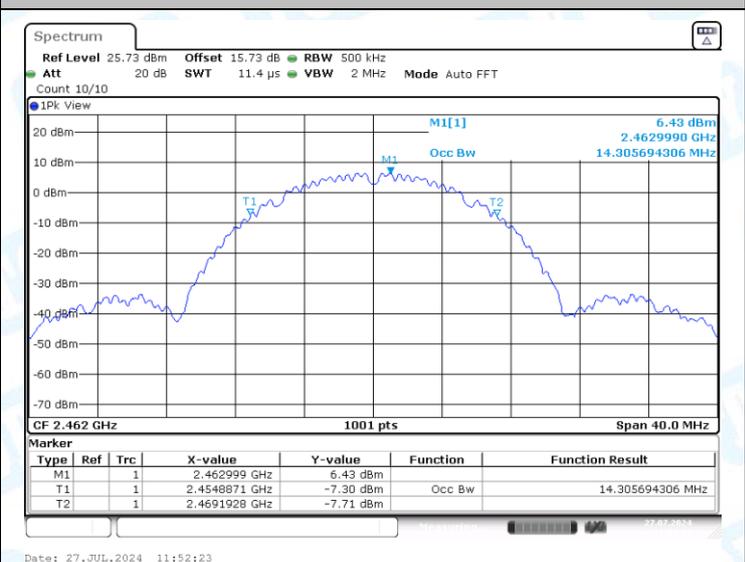
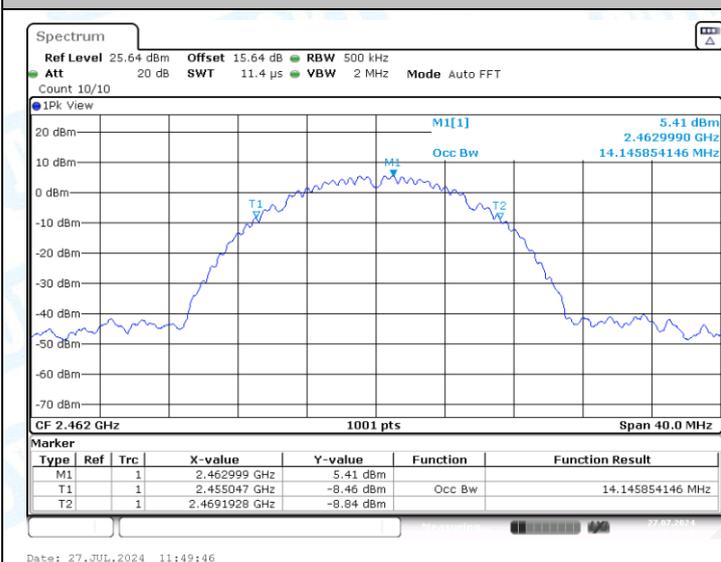
11B-CDD-Ant1-2412

11B-CDD-Ant2-2412



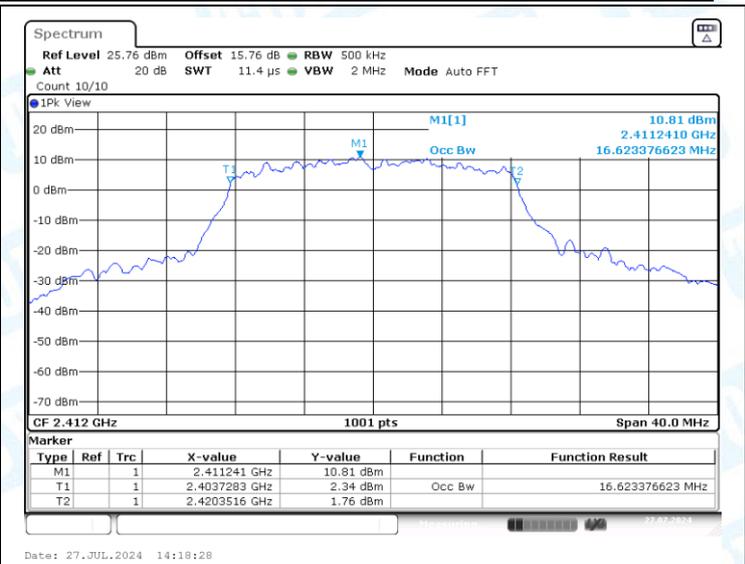
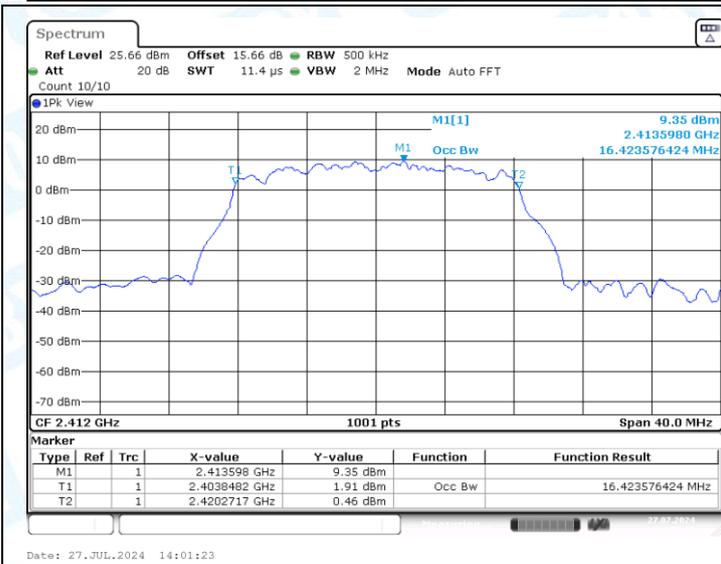
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11B-CDD-Ant2-2437



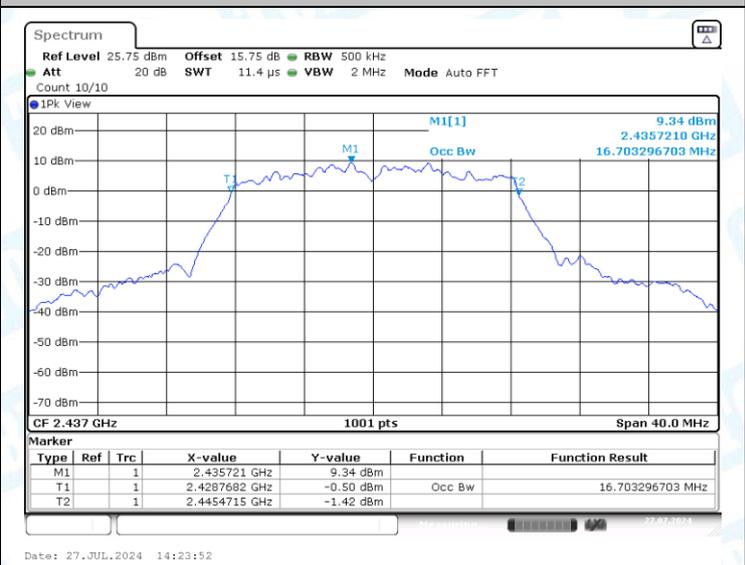
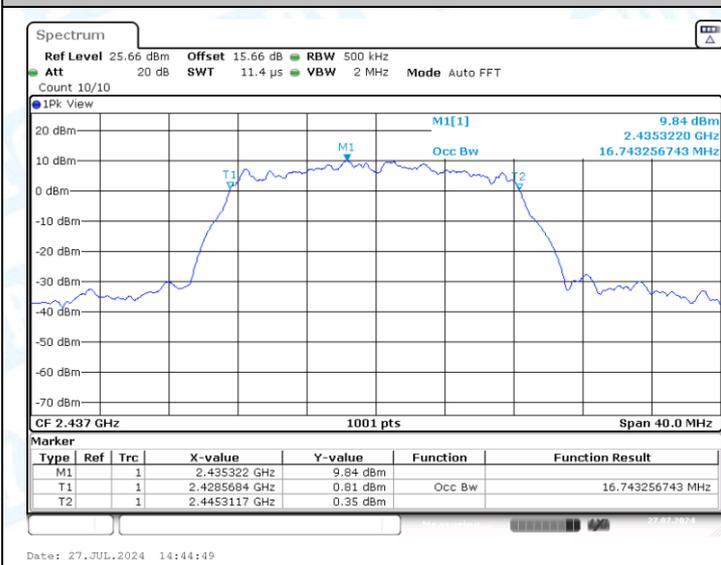
11B-CDD-Ant1-2462

11B-CDD-Ant2-2462



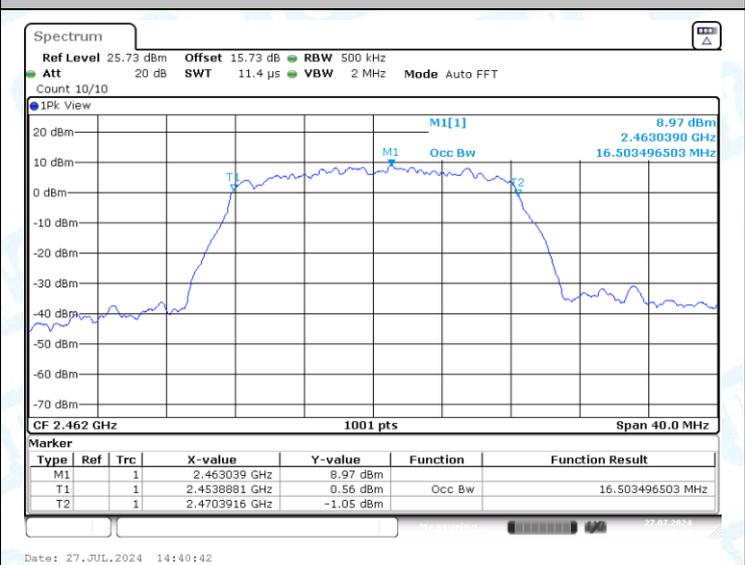
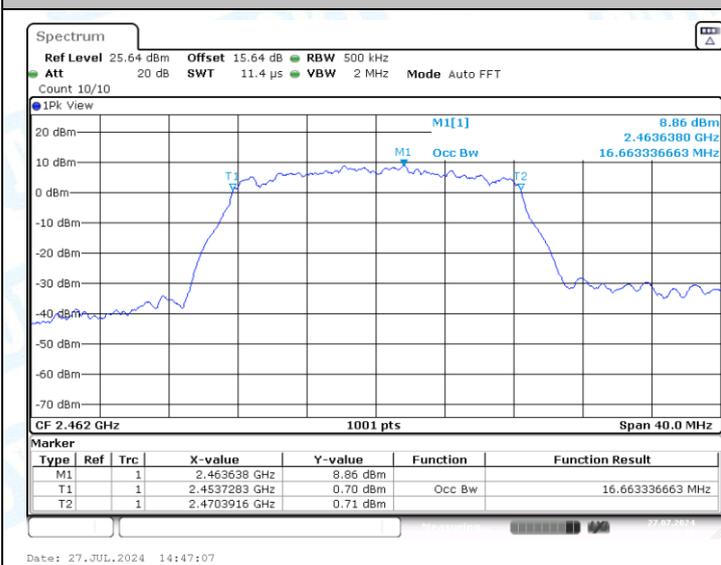
11G-Ant1-2412

11G-Ant2-2412



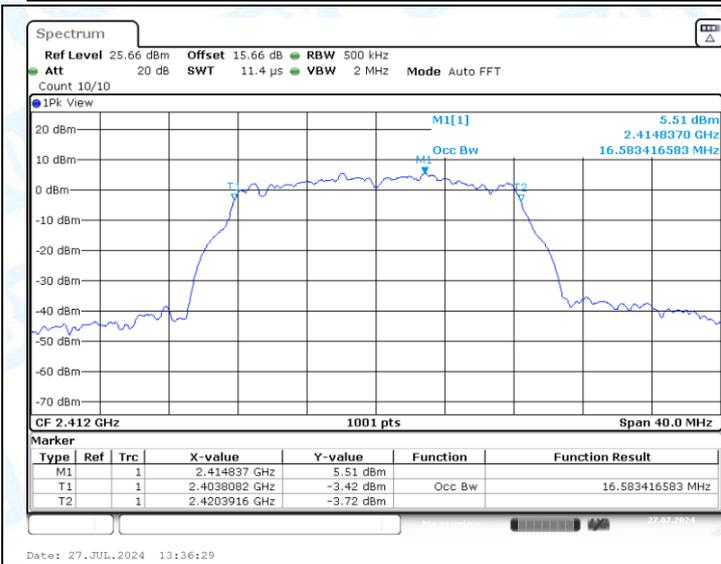
11G-Ant1-2437

11G-Ant2-2437

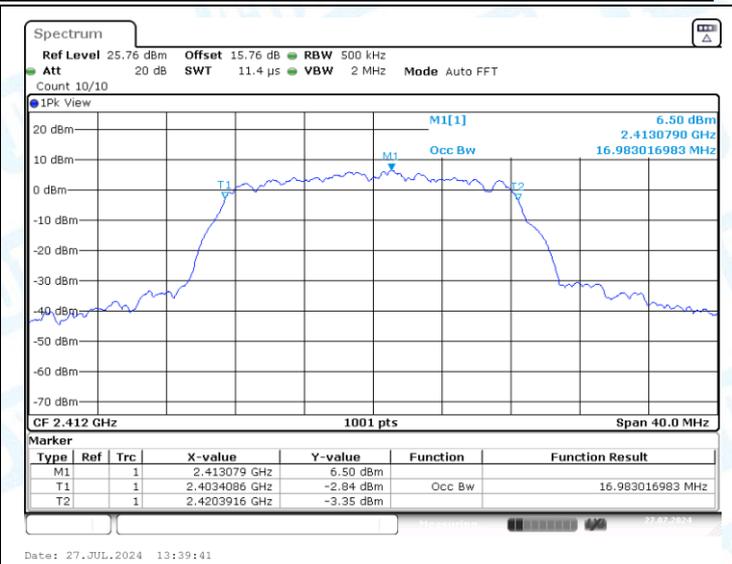


11G-Ant1-2462

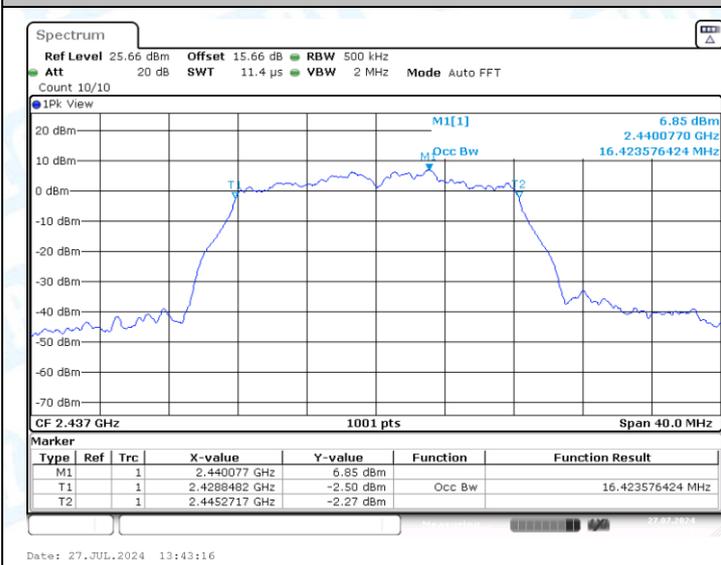
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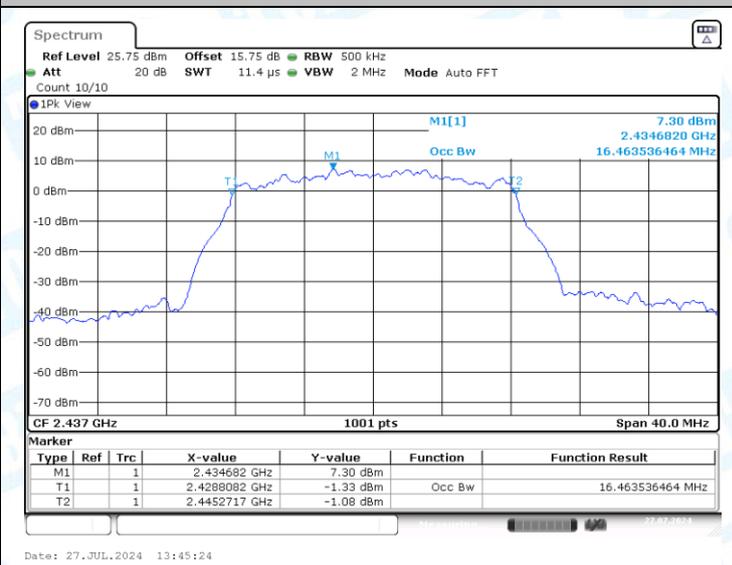
11G-CDD-Ant1-2412



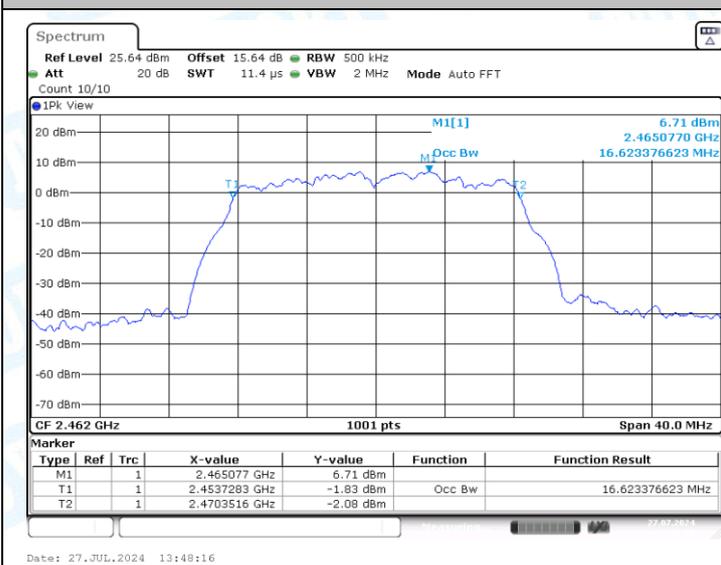
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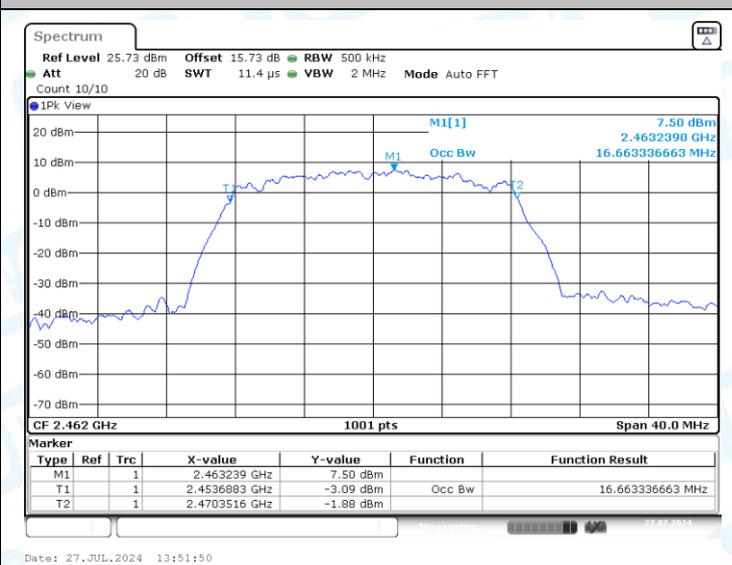
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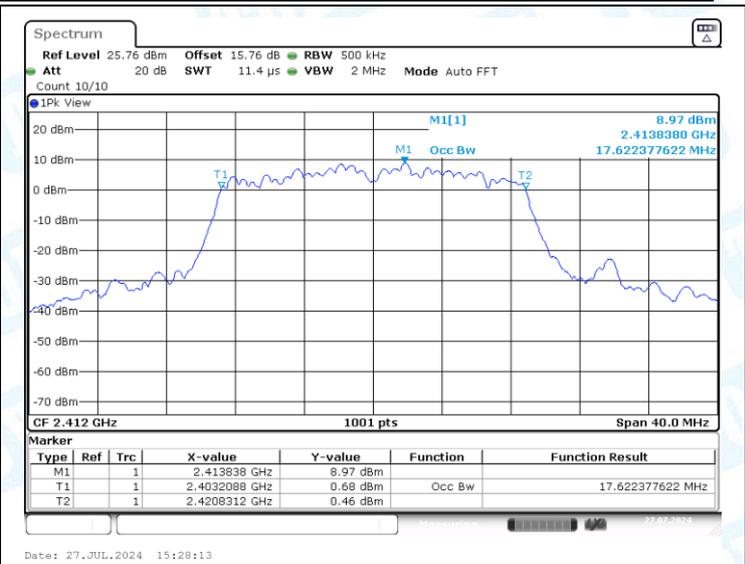
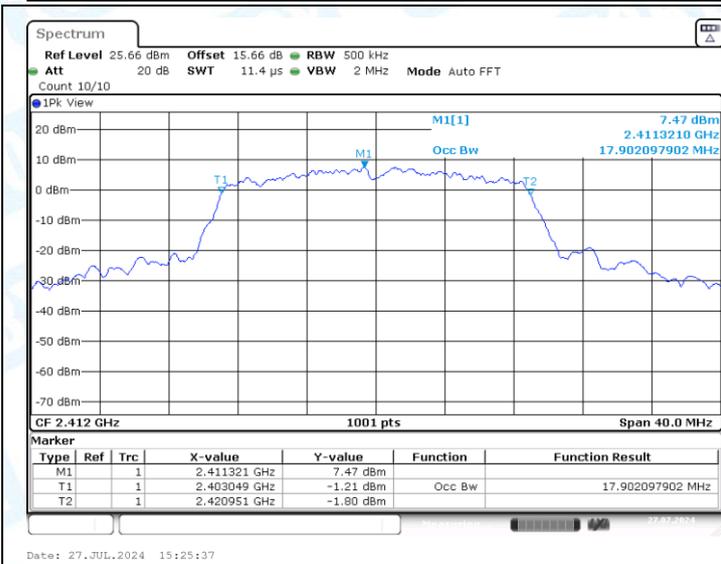
11G-CDD-Ant2-2437



11G-CDD-Ant1-2462

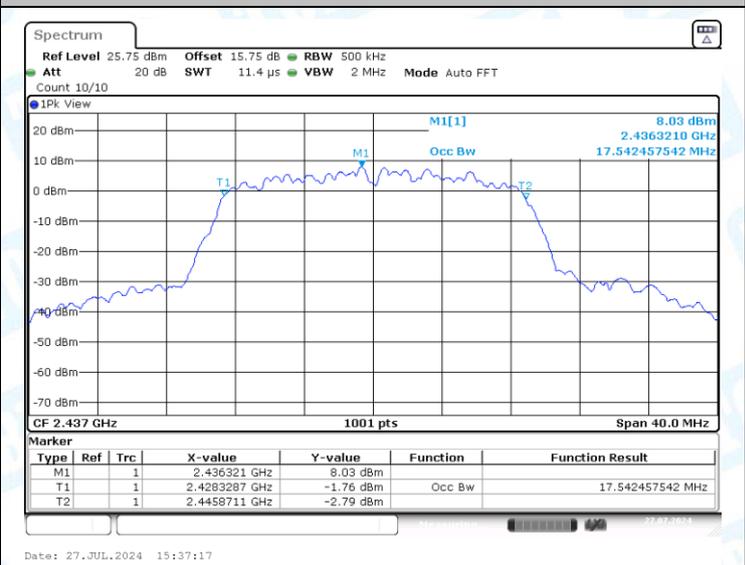
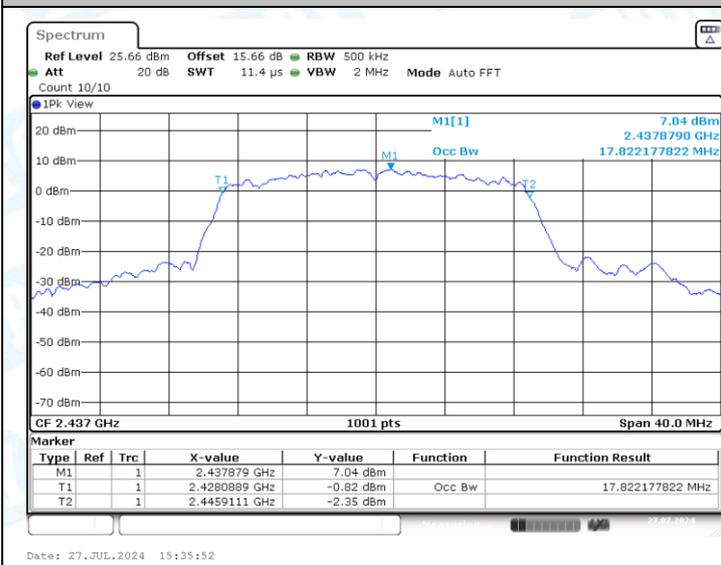


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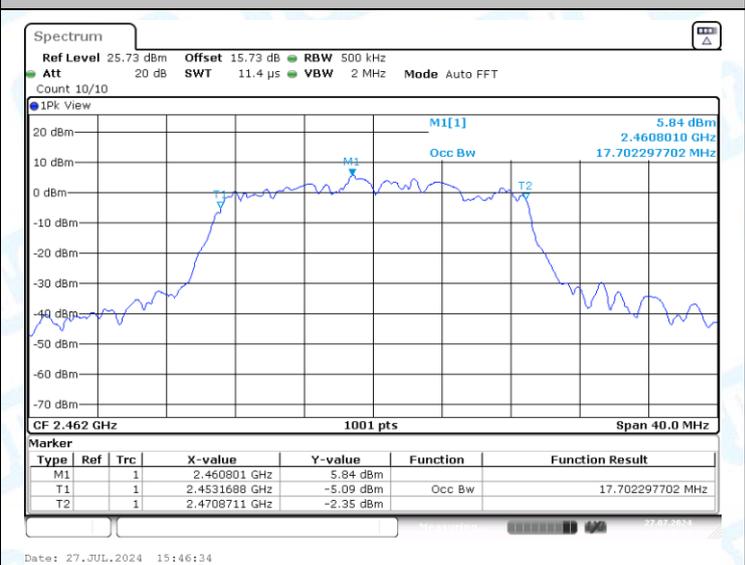
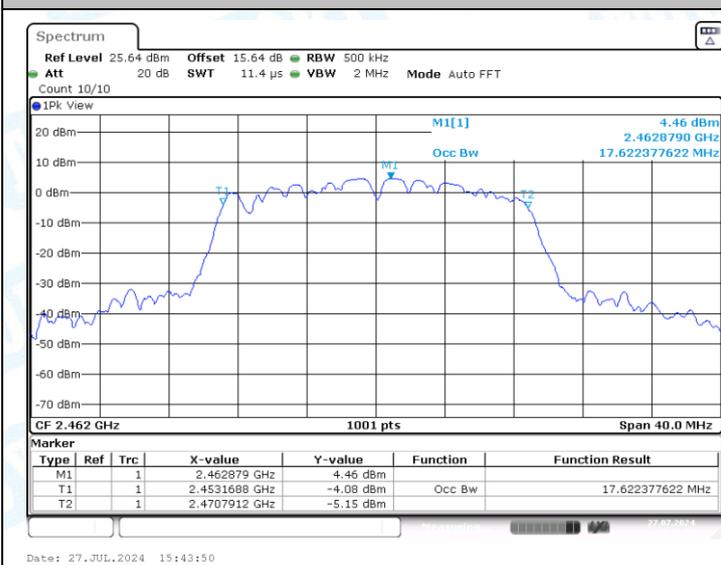
11N20-CDD-Ant1-2412

11N20-CDD-Ant2-2412



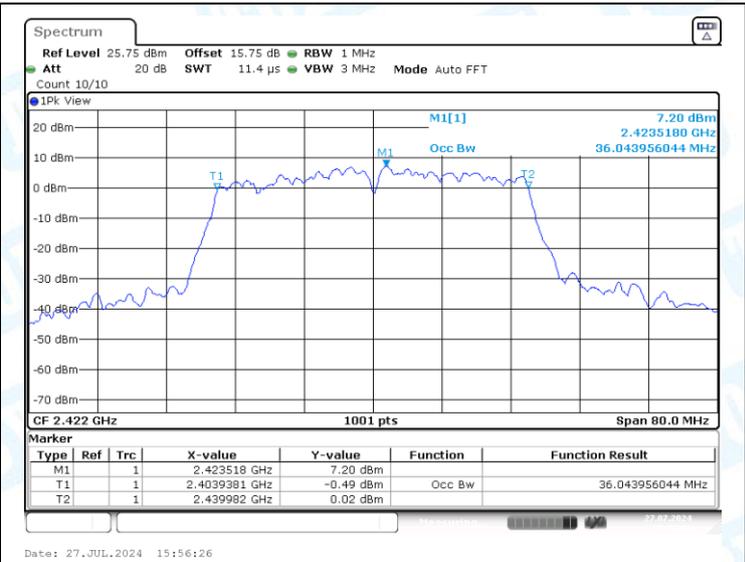
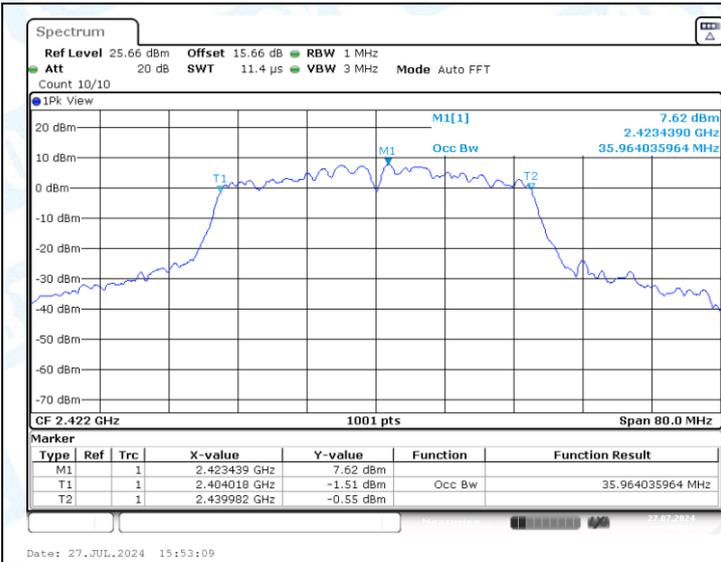
11N20-CDD-Ant1-2437

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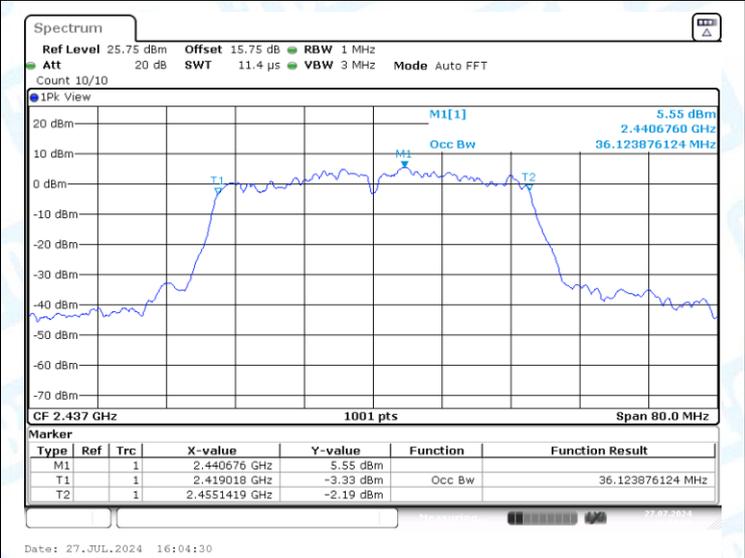
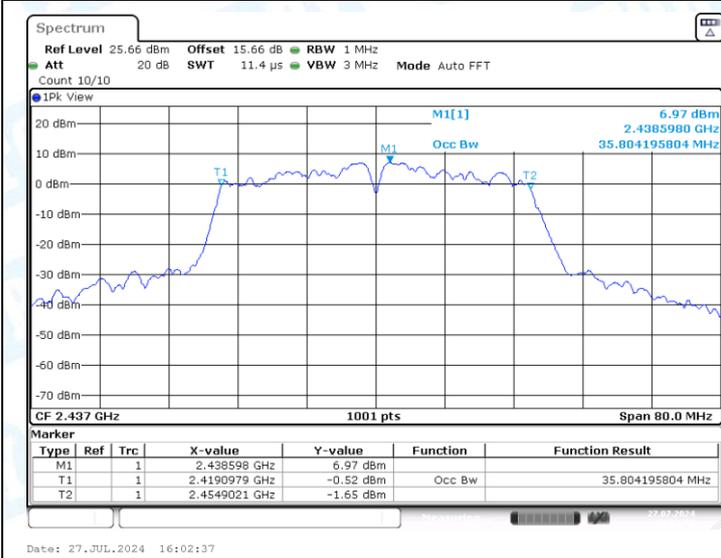
11N20-CDD-Ant1-2462

11N20-CDD-Ant2-2462



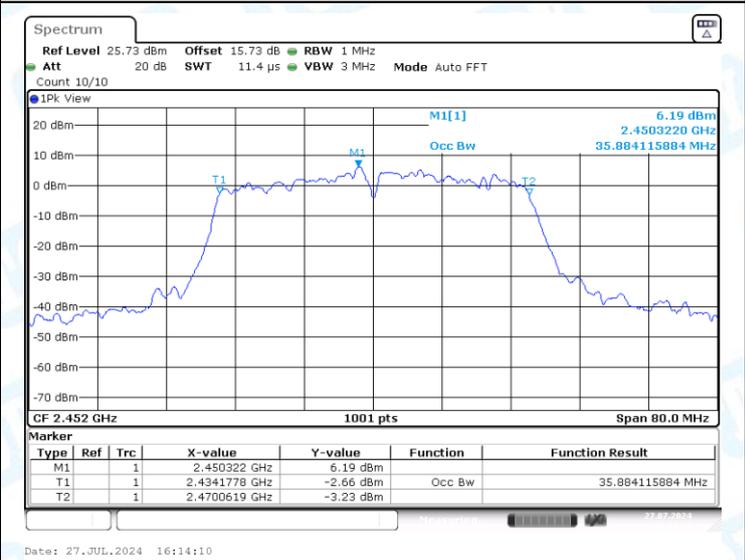
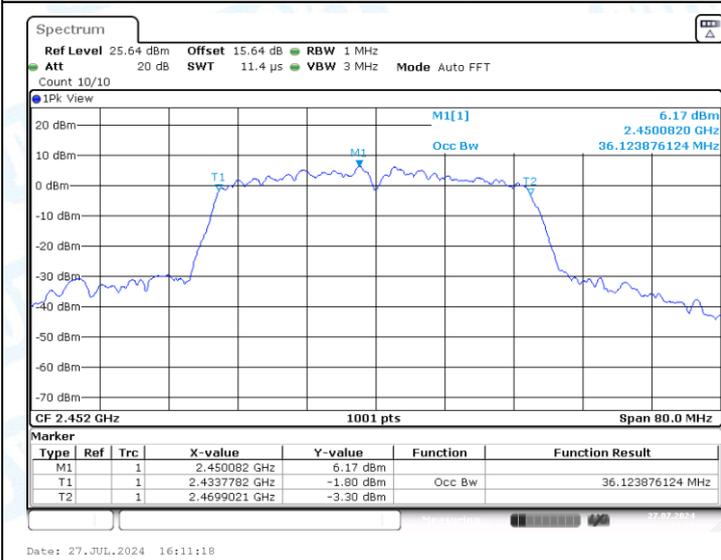
11N40-CDD-Ant1-2422

11N40-CDD-Ant2-2422



11N40-CDD-Ant1-2437

11N40-CDD-Ant2-2437



11N40-CDD-Ant1-2452

11N40-CDD-Ant2-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.40	≤30.00	PASS
11B	Ant2	2412	15.82	≤30.00	PASS
11B	Ant1	2437	14.52	≤30.00	PASS
11B	Ant2	2437	15.20	≤30.00	PASS
11B	Ant1	2462	14.29	≤30.00	PASS
11B	Ant2	2462	15.29	≤30.00	PASS
11B-CDD	total	2412	16.29	≤29.99	PASS
11B-CDD	total	2437	16.05	≤29.99	PASS
11B-CDD	total	2462	16.28	≤29.99	PASS
11G	Ant1	2412	16.65	≤30.00	PASS
11G	Ant2	2412	16.27	≤30.00	PASS
11G	Ant1	2437	16.22	≤30.00	PASS
11G	Ant2	2437	16.06	≤30.00	PASS
11G	Ant1	2462	16.21	≤30.00	PASS
11G	Ant2	2462	16.84	≤30.00	PASS
11G-CDD	total	2412	16.43	≤29.99	PASS
11G-CDD	total	2437	16.89	≤29.99	PASS
11G-CDD	total	2462	16.71	≤29.99	PASS
11N20-CDD	Ant1	2412	13.36	≤30.00	PASS
11N20-CDD	Ant2	2412	13.38	≤30.00	PASS
11N20-CDD	total	2412	16.38	≤29.99	PASS
11N20-CDD	Ant1	2437	13.90	≤30.00	PASS
11N20-CDD	Ant2	2437	12.93	≤30.00	PASS
11N20-CDD	total	2437	16.45	≤29.99	PASS
11N20-CDD	Ant1	2462	13.82	≤30.00	PASS
11N20-CDD	Ant2	2462	13.44	≤30.00	PASS
11N20-CDD	total	2462	16.64	≤29.99	PASS
11N40-CDD	Ant1	2422	11.86	≤30.00	PASS
11N40-CDD	Ant2	2422	12.89	≤30.00	PASS
11N40-CDD	total	2422	15.42	≤29.99	PASS
11N40-CDD	Ant1	2437	12.72	≤30.00	PASS
11N40-CDD	Ant2	2437	11.41	≤30.00	PASS
11N40-CDD	total	2437	15.12	≤29.99	PASS
11N40-CDD	Ant1	2452	12.49	≤30.00	PASS
11N40-CDD	Ant2	2452	11.45	≤30.00	PASS
11N40-CDD	total	2452	15.01	≤29.99	PASS

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