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

General Description of EUT	
EUT Name:	Black Panther
Model:	BLACK-PANTHER-EXT
Sample ID:	HC-C-202504-0055-03-01-2#
Test Standard:	FCC Part 15.247 & RSS 247 Issue 3
Environmental Conditions	
Ambient Temperature:	25℃
Ambient Humidity:	45%RH
Test Power Supply:	DC 5V
Test Engineer:	Rick. chen
Note: For a more detailed features description, please refer to the report TBR-C-202504-0055-12	

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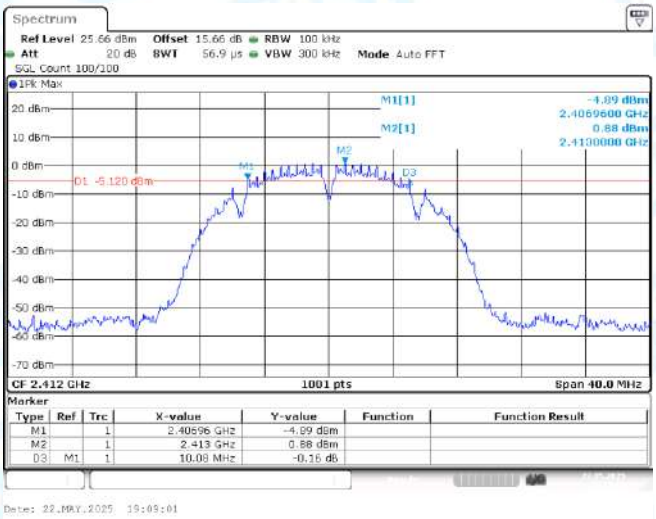
1: DTS Bandwidth

1.1Test Result

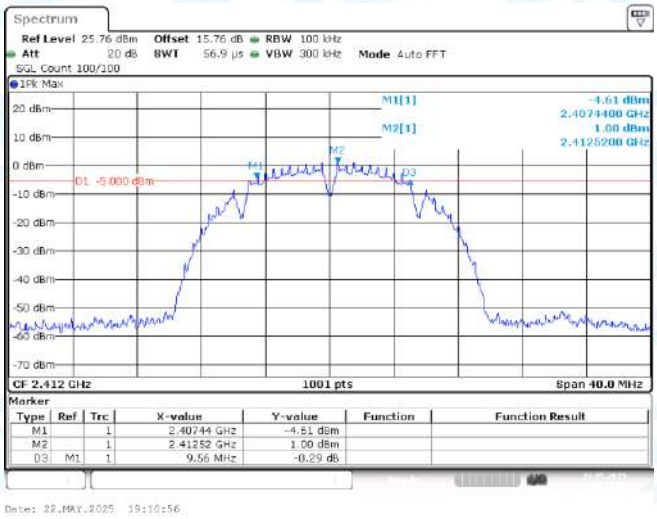
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
11B-CDD	Ant2	2412	9.56	2407.44	2417.00	0.5	PASS
11B-CDD	Ant1	2437	10.04	2431.96	2442.00	0.5	PASS
11B-CDD	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
11B-CDD	Ant1	2462	9.12	2457.44	2466.56	0.5	PASS
11B-CDD	Ant2	2462	9.12	2457.44	2466.56	0.5	PASS
11G-CDD	Ant1	2412	15.64	2404.24	2419.88	0.5	PASS
11G-CDD	Ant2	2412	15.08	2404.48	2419.56	0.5	PASS
11G-CDD	Ant1	2437	15.32	2429.44	2444.76	0.5	PASS
11G-CDD	Ant2	2437	12.64	2430.68	2443.32	0.5	PASS
11G-CDD	Ant1	2462	15.32	2454.24	2469.56	0.5	PASS
11G-CDD	Ant2	2462	12.64	2455.68	2468.32	0.5	PASS
11N20MIMO	Ant1	2412	16.08	2404.08	2420.16	0.5	PASS
11N20MIMO	Ant2	2412	15.68	2404.24	2419.92	0.5	PASS
11N20MIMO	Ant1	2437	13.84	2430.68	2444.52	0.5	PASS
11N20MIMO	Ant2	2437	15.92	2428.84	2444.76	0.5	PASS
11N20MIMO	Ant1	2462	14.08	2454.44	2468.52	0.5	PASS
11N20MIMO	Ant2	2462	15.40	2454.20	2469.60	0.5	PASS
11N40MIMO	Ant1	2422	30.08	2406.96	2437.04	0.5	PASS
11N40MIMO	Ant2	2422	32.56	2406.96	2439.52	0.5	PASS
11N40MIMO	Ant1	2437	35.12	2419.48	2454.60	0.5	PASS
11N40MIMO	Ant2	2437	30.00	2424.52	2454.52	0.5	PASS
11N40MIMO	Ant1	2452	30.88	2435.76	2466.64	0.5	PASS
11N40MIMO	Ant2	2452	34.08	2434.48	2468.56	0.5	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

1.2 Test Graphs



11B-CDD-Ant1-2412-PASS



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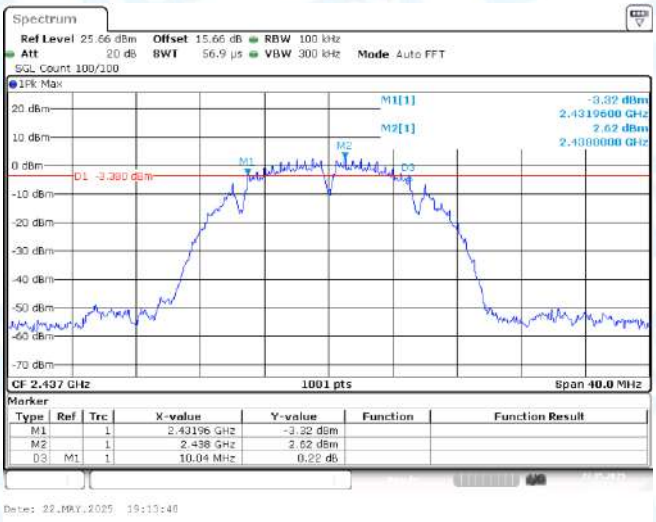
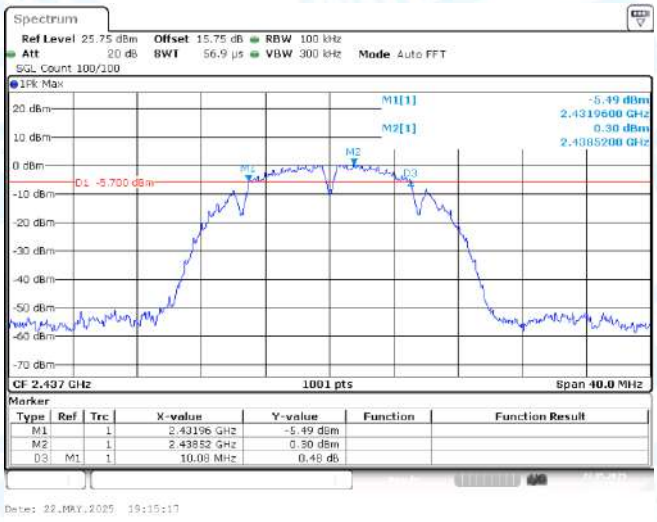
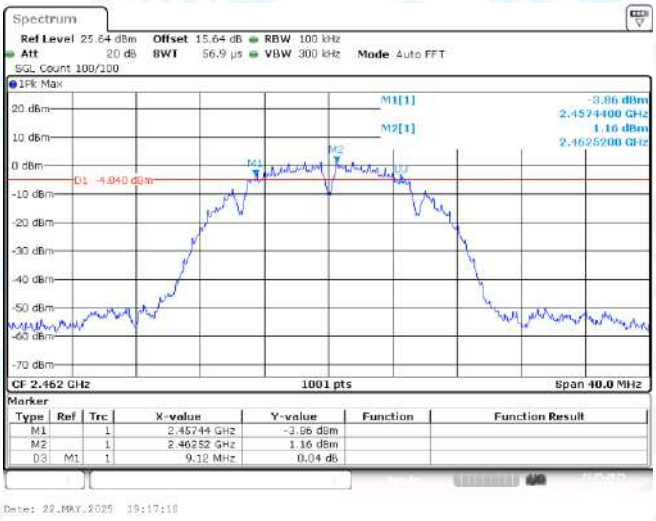


11B-CDD-Ant1-2437-PASS



11B-CDD-Ant2-2437-PASS



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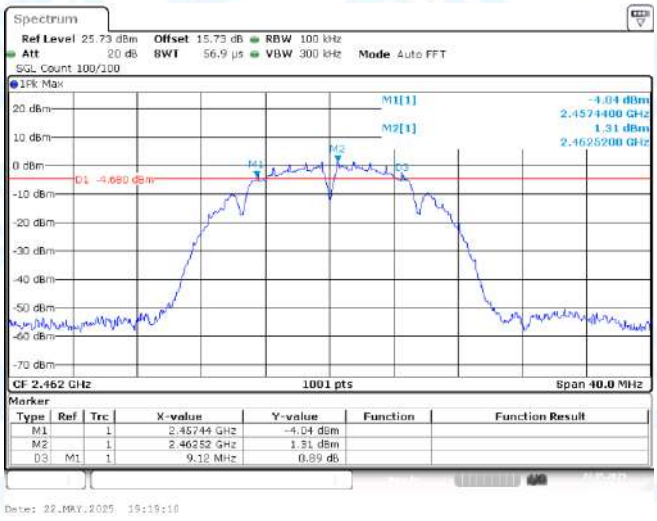

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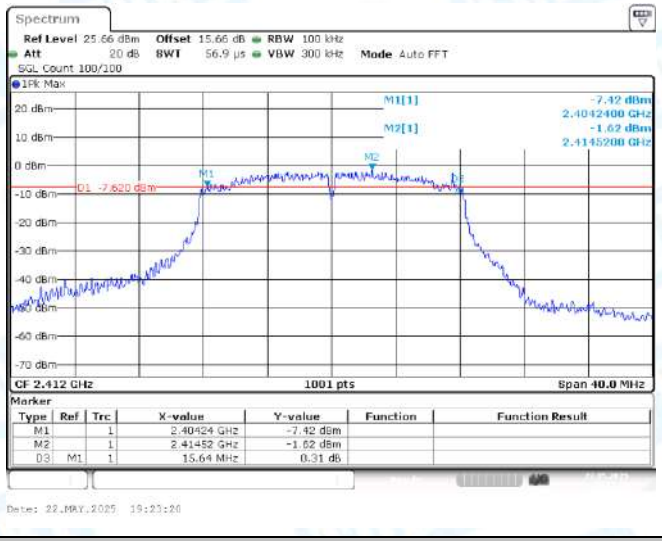
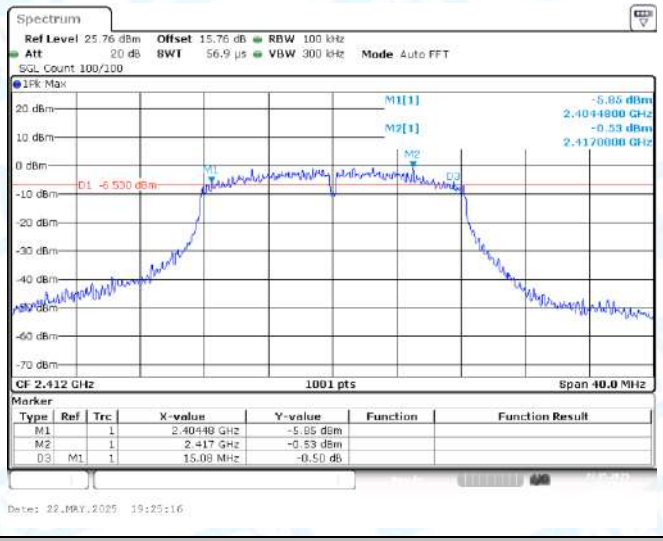


11G-CDD-Ant1-2412-PASS



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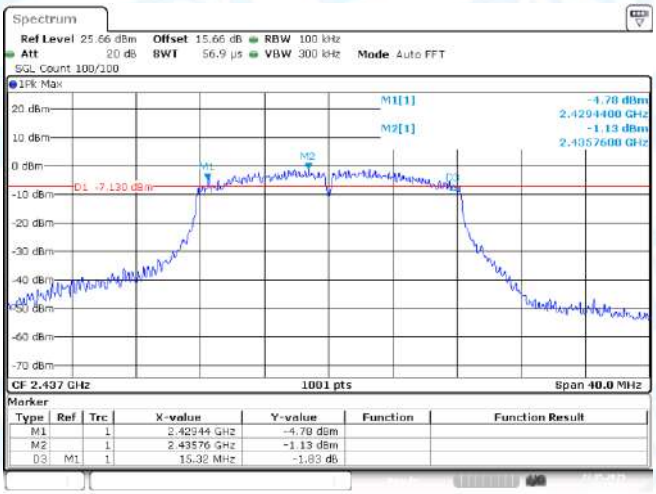

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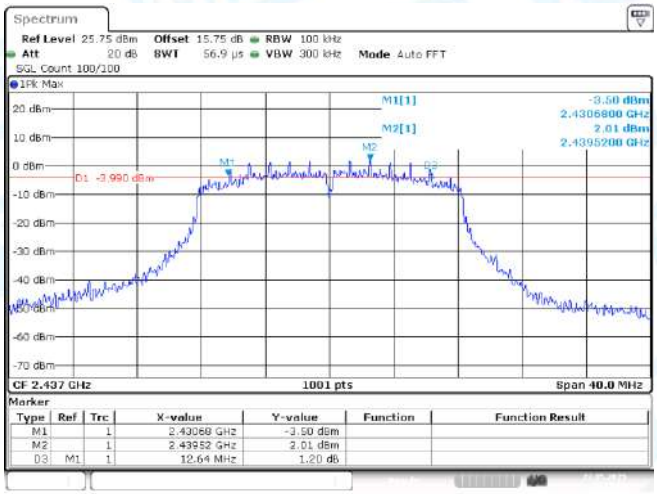

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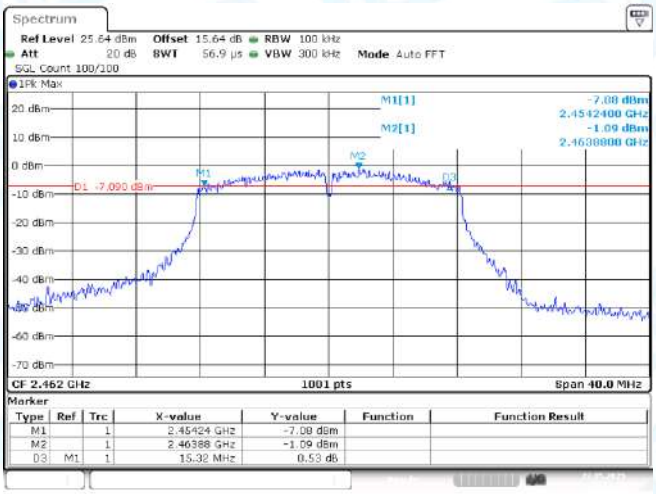

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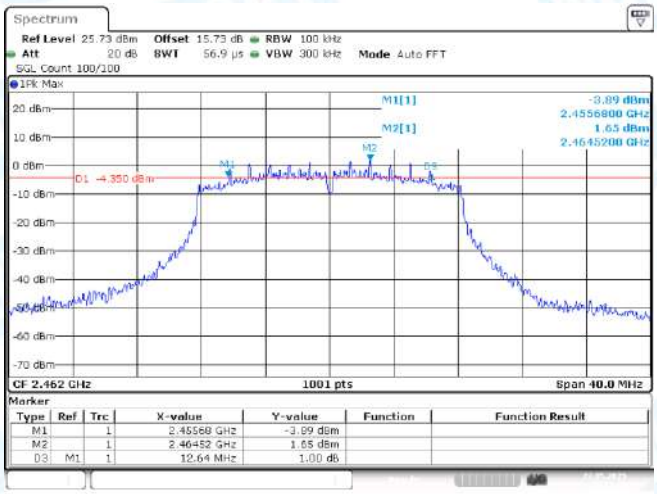

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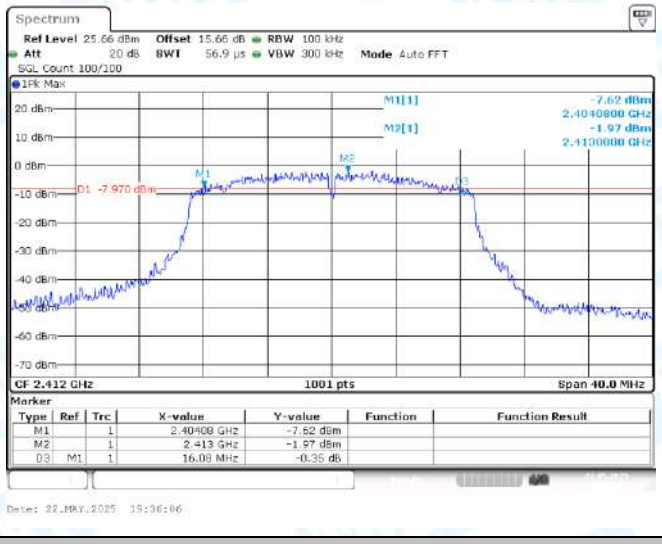

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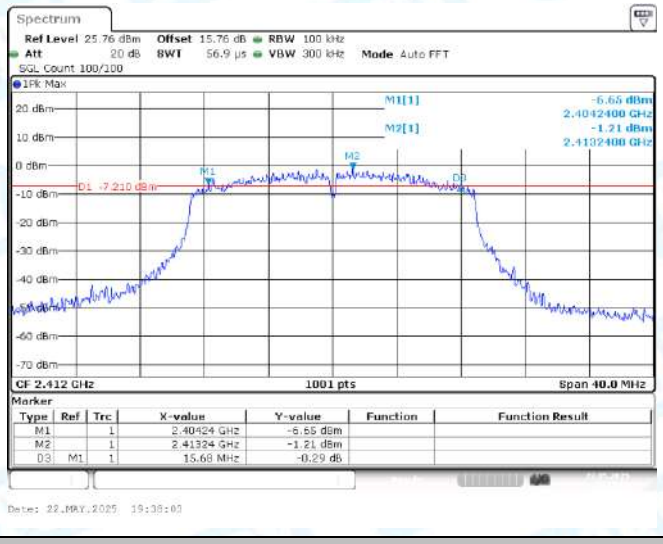

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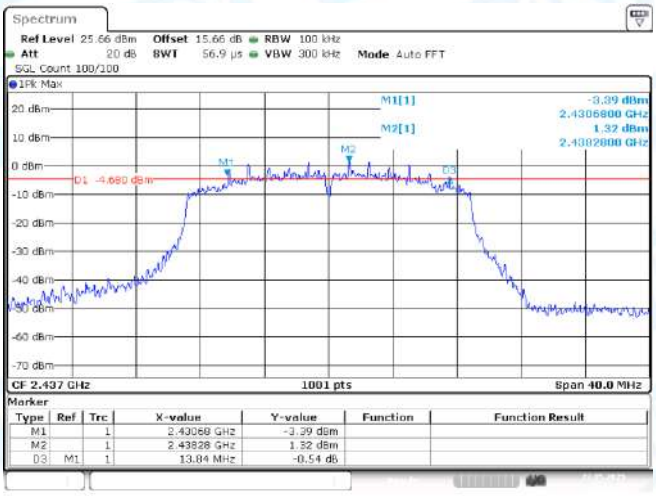
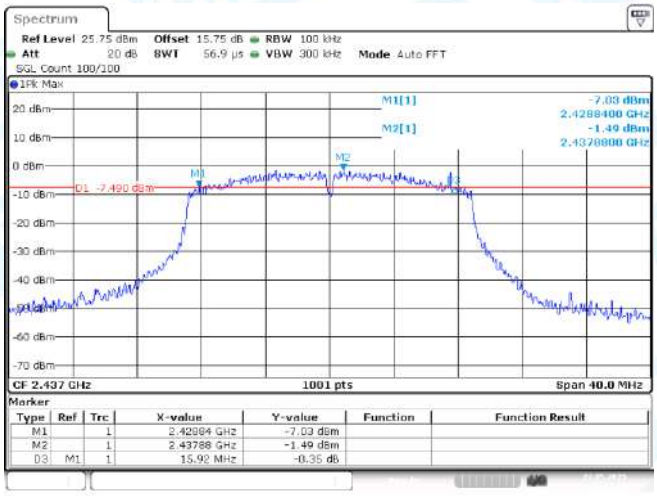
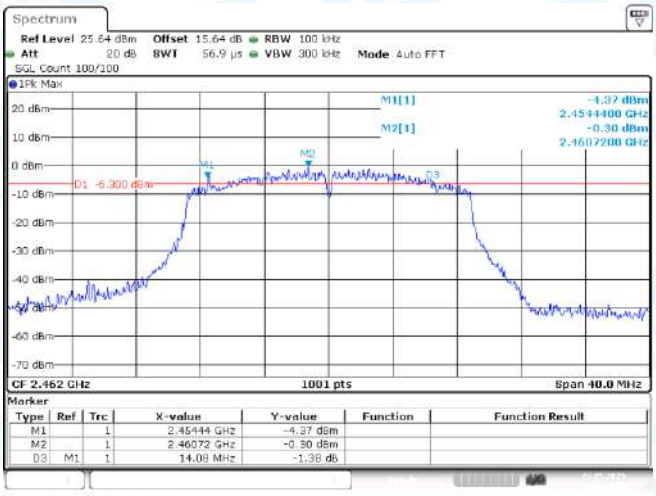


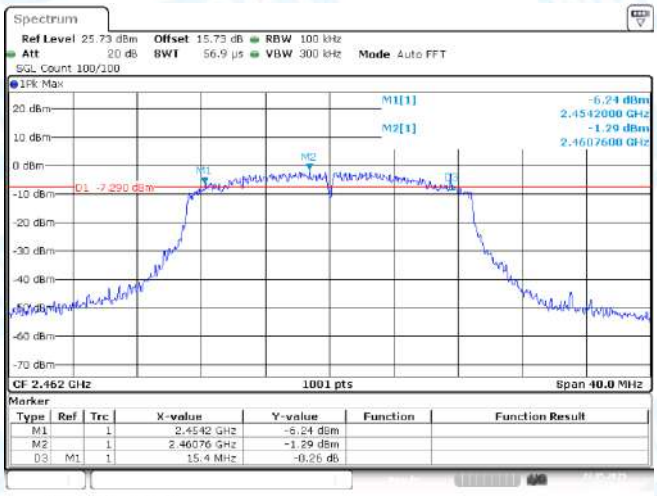
11N20MIMO-Ant1-2437-PASS



11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



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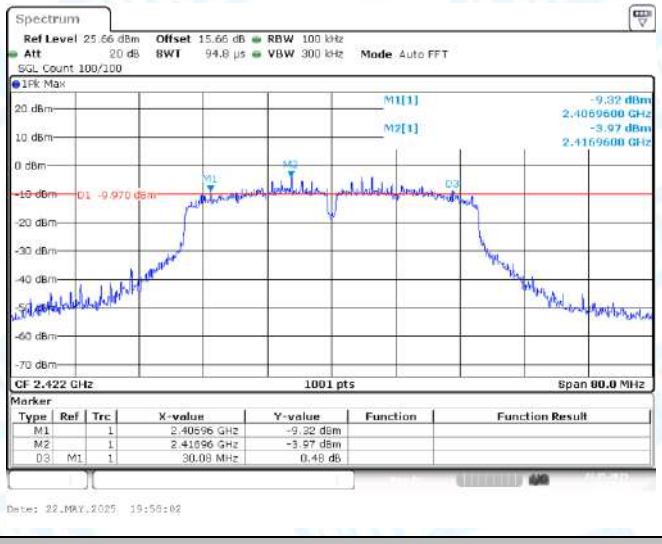
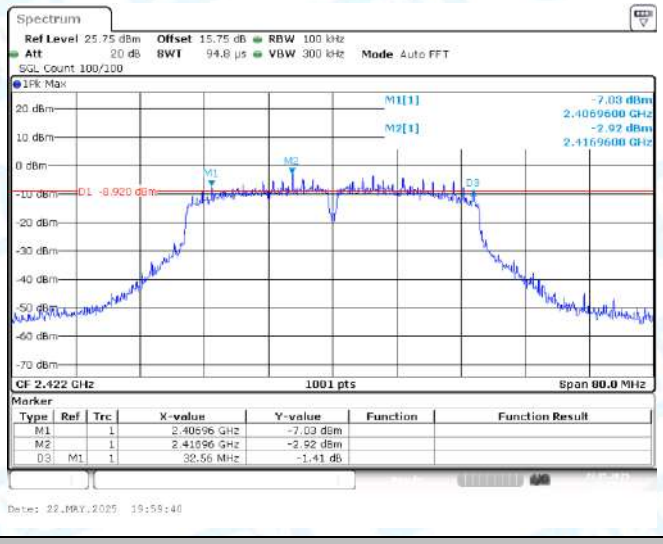
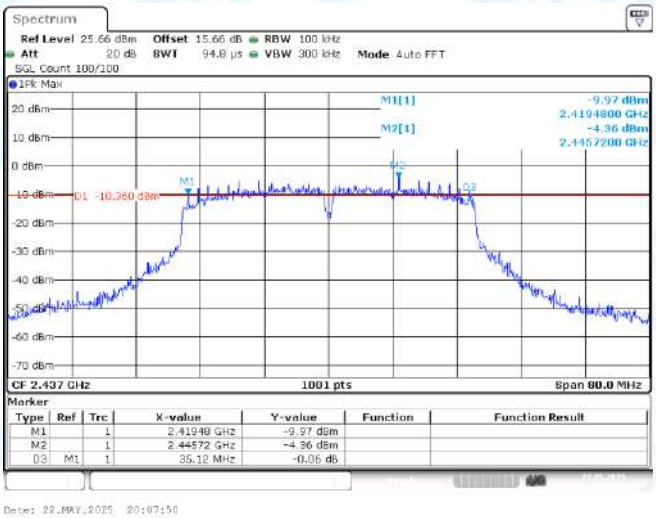


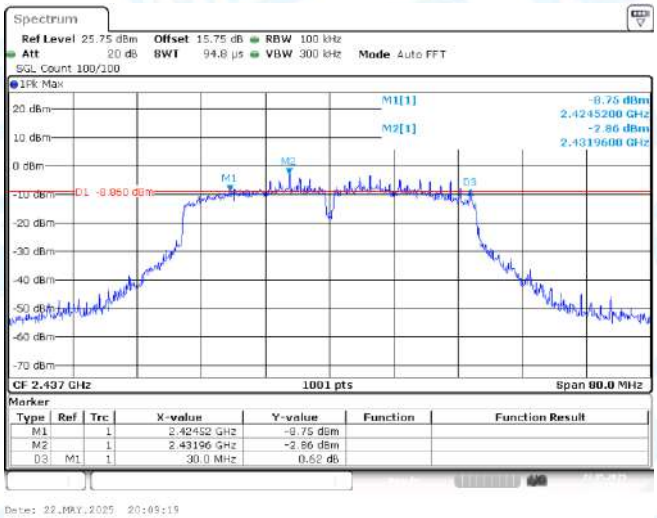
11N40MIMO-Ant1-2422-PASS



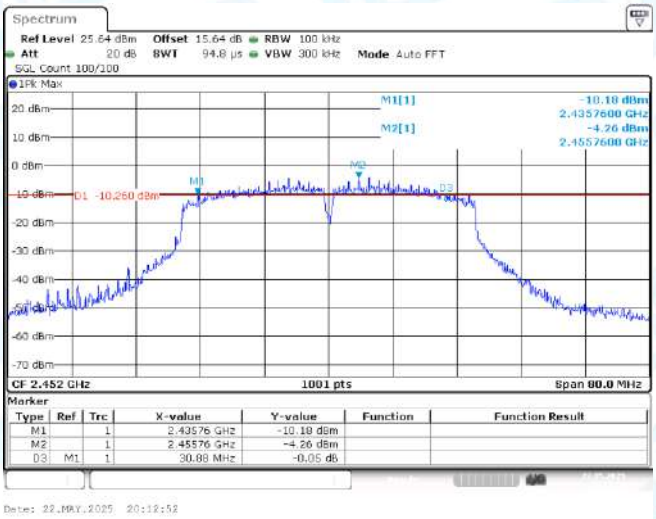
11N40MIMO-Ant2-2422-PASS



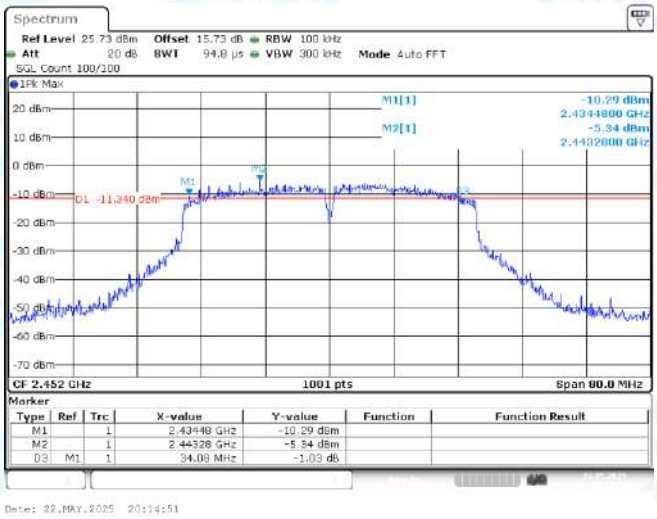
11N40MIMO-Ant1-2437-PASS



11N40MIMO-Ant2-2437-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

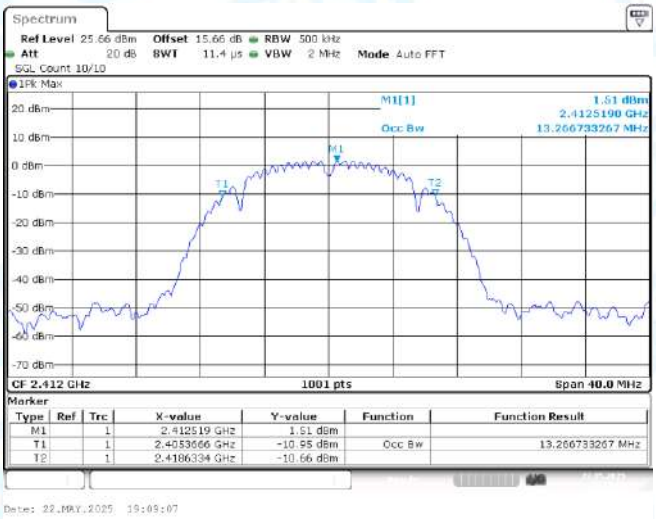
2: Occupied Channel Bandwidth

2.1 Test Result

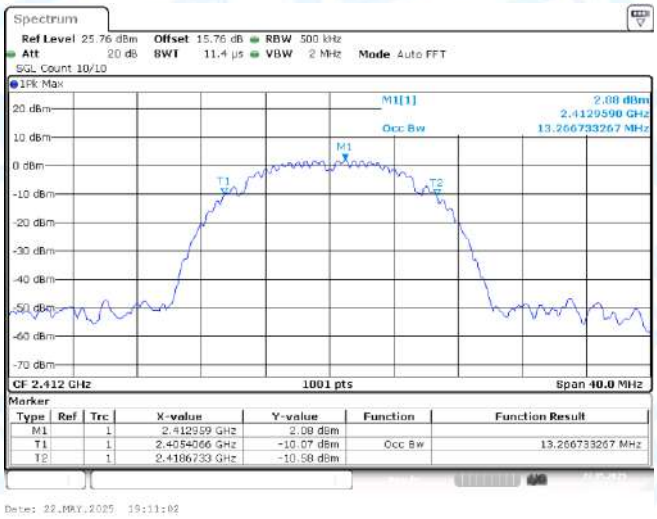
TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.267	2405.3666	2418.6334	---	---
11B-CDD	Ant2	2412	13.267	2405.4066	2418.6733	---	---
11B-CDD	Ant1	2437	13.227	2430.4066	2443.6334	---	---
11B-CDD	Ant2	2437	13.307	2430.4066	2443.7133	---	---
11B-CDD	Ant1	2462	13.267	2455.3666	2468.6334	---	---
11B-CDD	Ant2	2462	13.307	2455.4066	2468.7133	---	---
11G-CDD	Ant1	2412	16.464	2403.8082	2420.2717	---	---
11G-CDD	Ant2	2412	16.104	2403.9680	2420.0719	---	---
11G-CDD	Ant1	2437	16.144	2428.9680	2445.1119	---	---
11G-CDD	Ant2	2437	16.144	2429.0080	2445.1518	---	---
11G-CDD	Ant1	2462	16.184	2453.9281	2470.1119	---	---
11G-CDD	Ant2	2462	16.344	2453.9680	2470.3117	---	---
11N20MIMO	Ant1	2412	17.383	2403.2488	2420.6314	---	---
11N20MIMO	Ant2	2412	17.183	2403.4486	2420.6314	---	---
11N20MIMO	Ant1	2437	17.183	2428.4486	2445.6314	---	---
11N20MIMO	Ant2	2437	17.423	2428.2887	2445.7113	---	---
11N20MIMO	Ant1	2462	17.263	2453.4086	2470.6713	---	---
11N20MIMO	Ant2	2462	17.423	2453.3287	2470.7512	---	---
11N40MIMO	Ant1	2422	35.964	2404.0180	2439.9820	---	---
11N40MIMO	Ant2	2422	35.804	2404.1778	2439.9820	---	---
11N40MIMO	Ant1	2437	35.644	2419.0180	2454.6623	---	---
11N40MIMO	Ant2	2437	35.804	2419.2577	2455.0619	---	---
11N40MIMO	Ant1	2452	36.044	2434.0979	2470.1419	---	---
11N40MIMO	Ant2	2452	35.964	2434.0979	2470.0619	---	---

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

2.2 Test Graphs

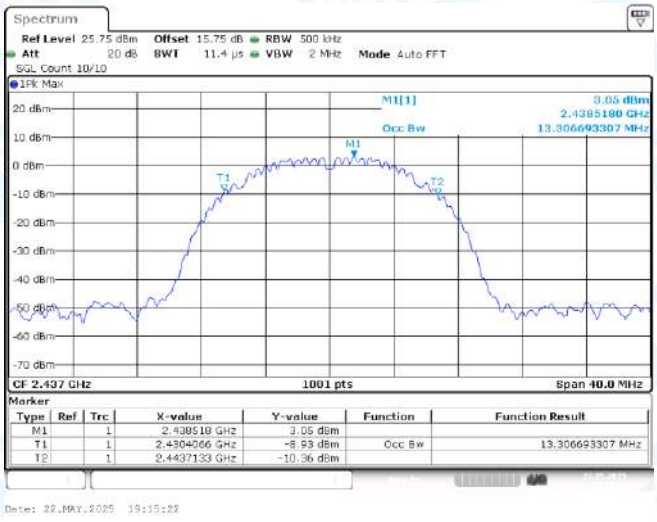


11B-CDD-Ant1-2412

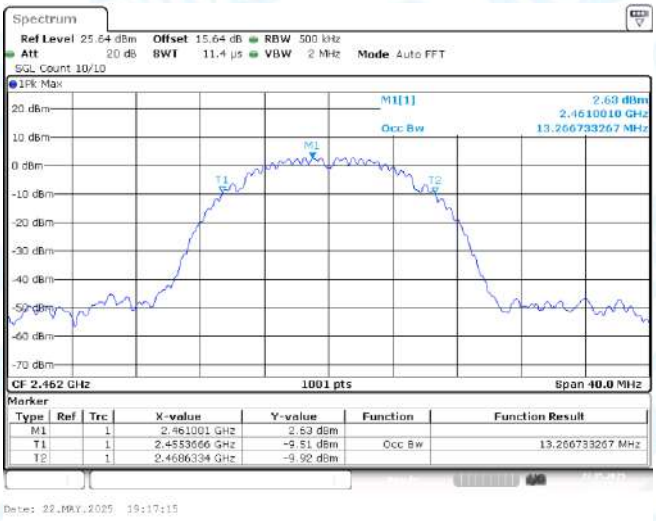


11B-CDD-Ant2-2412

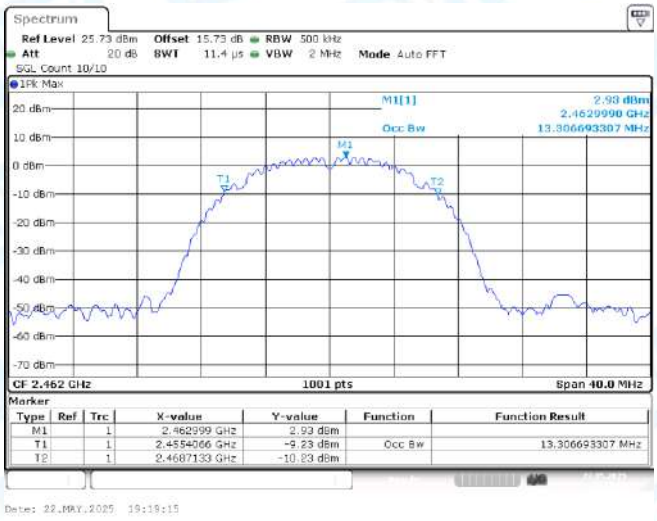
11B-CDD-Ant1-2437



11B-CDD-Ant2-2437

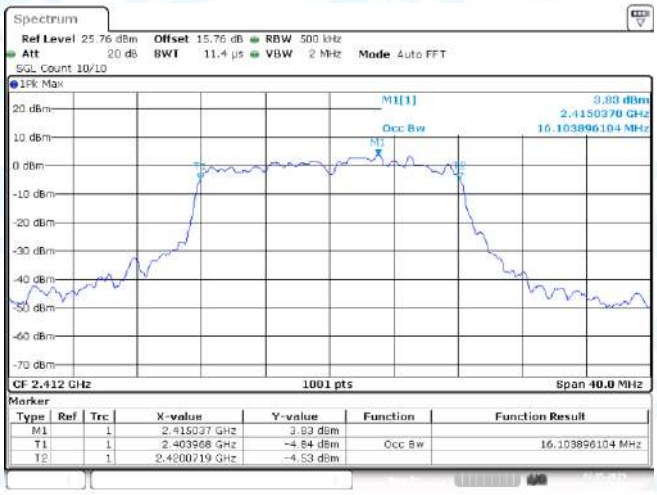


11B-CDD-Ant1-2462



11B-CDD-Ant2-2462

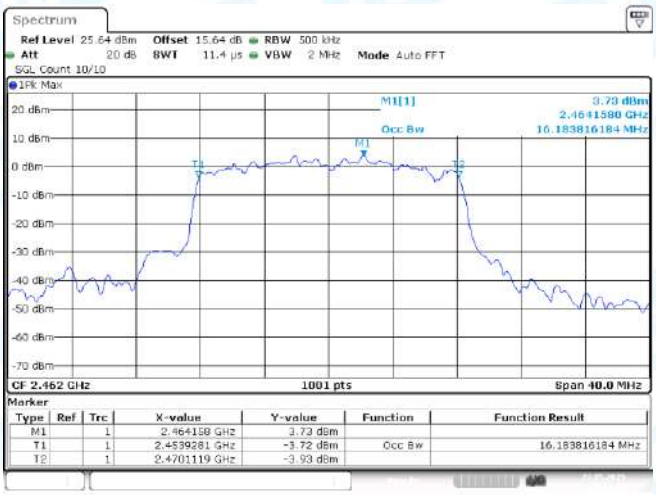
11G-CDD-Ant1-2412



11G-CDD-Ant2-2412

11G-CDD-Ant1-2437

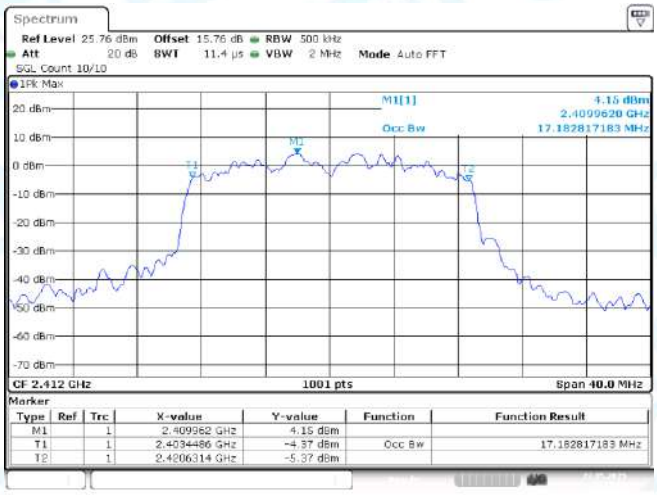
11G-CDD-Ant2-2437



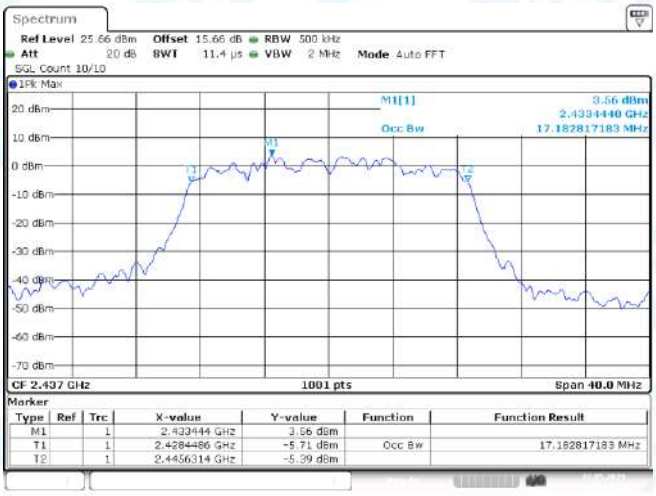
11G-CDD-Ant1-2462

11G-CDD-Ant2-2462

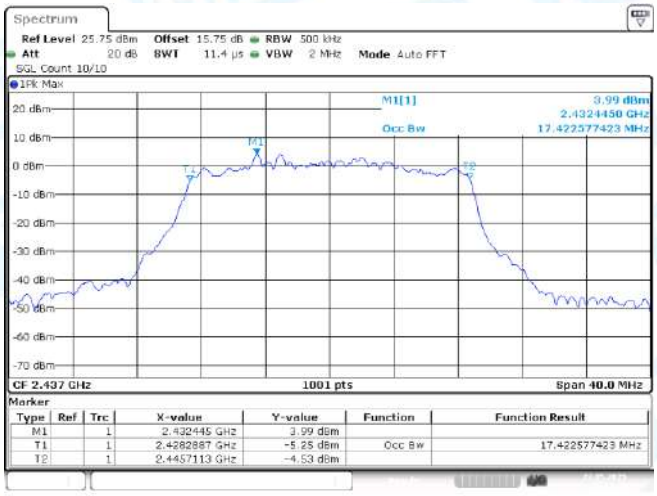
11N20MIMO-Ant1-2412



11N20MIMO-Ant2-2412

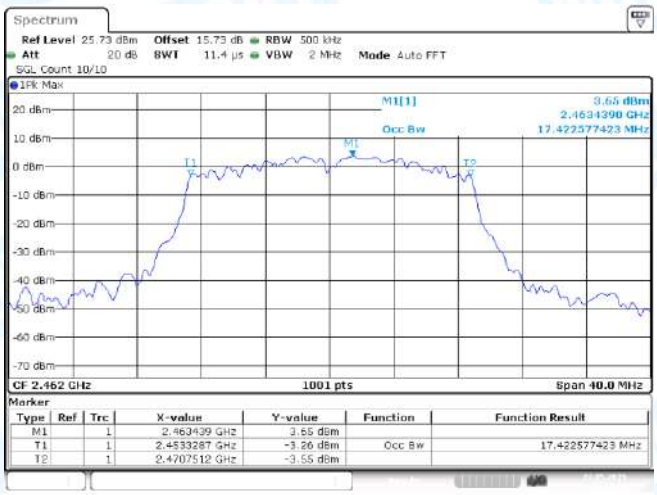


11N20MIMO-Ant1-2437



11N20MIMO-Ant2-2437

11N20MIMO-Ant1-2462



11N20MIMO-Ant2-2462

11N40MIMO-Ant1-2422

11N40MIMO-Ant2-2422

11N40MIMO-Ant1-2437

11N40MIMO-Ant2-2437

11N40MIMO-Ant1-2452

11N40MIMO-Ant2-2452

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11B-CDD	Ant1	2412	10.45	≤30.00	2.67	13.12	≤36.00	PASS
11B-CDD	Ant2	2412	10.86	≤30.00	2.67	13.53	≤36.00	PASS
11B-CDD	Ant1	2437	10.62	≤30.00	2.67	13.29	≤36.00	PASS
11B-CDD	Ant2	2437	10.73	≤30.00	2.67	13.40	≤36.00	PASS
11B-CDD	Ant1	2462	10.50	≤30.00	2.67	13.17	≤36.00	PASS
11B-CDD	Ant2	2462	10.65	≤30.00	2.67	13.32	≤36.00	PASS
11G-CDD	Ant1	2412	11.45	≤30.00	2.67	14.12	≤36.00	PASS
11G-CDD	Ant2	2412	8.37	≤30.00	2.67	11.04	≤36.00	PASS
11G-CDD	Ant1	2437	11.70	≤30.00	2.67	14.37	≤36.00	PASS
11G-CDD	Ant2	2437	10.86	≤30.00	2.67	13.53	≤36.00	PASS
11G-CDD	Ant1	2462	11.60	≤30.00	2.67	14.27	≤36.00	PASS
11G-CDD	Ant2	2462	11.13	≤30.00	2.67	13.80	≤36.00	PASS
11N20MIMO	Ant1	2412	10.96	≤30.00	2.67	13.63	≤36.00	PASS
11N20MIMO	Ant2	2412	7.66	≤30.00	2.67	10.33	≤36.00	PASS
11N20MIMO	total	2412	12.63	≤30.00	5.68	18.31	≤36.00	PASS
11N20MIMO	Ant1	2437	11.66	≤30.00	2.67	14.33	≤36.00	PASS
11N20MIMO	Ant2	2437	10.73	≤30.00	2.67	13.40	≤36.00	PASS
11N20MIMO	total	2437	14.23	≤30.00	5.68	19.91	≤36.00	PASS
11N20MIMO	Ant1	2462	11.63	≤30.00	2.67	14.30	≤36.00	PASS
11N20MIMO	Ant2	2462	11.53	≤30.00	2.67	14.20	≤36.00	PASS
11N20MIMO	total	2462	14.59	≤30.00	5.68	20.27	≤36.00	PASS
11N40MIMO	Ant1	2422	9.16	≤30.00	2.67	11.83	≤36.00	PASS
11N40MIMO	Ant2	2422	9.88	≤30.00	2.67	12.55	≤36.00	PASS
11N40MIMO	total	2422	12.55	≤30.00	5.68	18.23	≤36.00	PASS
11N40MIMO	Ant1	2437	9.43	≤30.00	2.67	12.10	≤36.00	PASS
11N40MIMO	Ant2	2437	9.94	≤30.00	2.67	12.61	≤36.00	PASS
11N40MIMO	total	2437	12.70	≤30.00	5.68	18.38	≤36.00	PASS
11N40MIMO	Ant1	2452	9.81	≤30.00	2.67	12.48	≤36.00	PASS
11N40MIMO	Ant2	2452	10.12	≤30.00	2.67	12.79	≤36.00	PASS
11N40MIMO	total	2452	12.98	≤30.00	5.68	18.66	≤36.00	PASS

The Duty Cycle Factor is compensated in the graph.

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

4: Maximum power spectral density

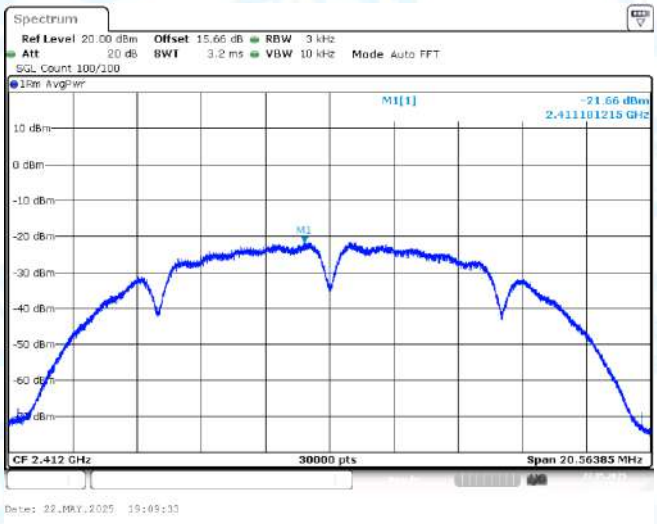
4.1 Test Result

TestMode	Ant.	Frequency[MHz]	RawData [dBm/3kHz]	DC Factory	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-21.66	0.00	-21.66	≤8.00	PASS
11B-CDD	Ant2	2412	-21.18	0.00	-21.18	≤8.00	PASS
11B-CDD	Ant1	2437	-19.33	0.00	-19.33	≤8.00	PASS
11B-CDD	Ant2	2437	-19.47	0.00	-19.47	≤8.00	PASS
11B-CDD	Ant1	2462	-19.63	0.02	-19.61	≤8.00	PASS
11B-CDD	Ant2	2462	-19.71	0.01	-19.70	≤8.00	PASS
11G-CDD	Ant1	2412	-21.51	0.08	-21.43	≤8.00	PASS
11G-CDD	Ant2	2412	-21.44	0.11	-21.33	≤8.00	PASS
11G-CDD	Ant1	2437	-21.33	0.11	-21.22	≤8.00	PASS
11G-CDD	Ant2	2437	-21.14	0.11	-21.03	≤8.00	PASS
11G-CDD	Ant1	2462	-21.65	0.11	-21.54	≤8.00	PASS
11G-CDD	Ant2	2462	-21.41	0.11	-21.30	≤8.00	PASS
11N20MIMO	Ant1	2412	-21.95	0.11	-21.84	≤8.00	PASS
11N20MIMO	Ant2	2412	-21.7	0.11	-21.59	≤8.00	PASS
11N20MIMO	total	2412	---	---	-18.70	≤8.00	PASS
11N20MIMO	Ant1	2437	-21.2	0.11	-21.09	≤8.00	PASS
11N20MIMO	Ant2	2437	-21.55	0.11	-21.44	≤8.00	PASS
11N20MIMO	total	2437	---	---	-18.25	≤8.00	PASS
11N20MIMO	Ant1	2462	-21.87	0.14	-21.73	≤8.00	PASS
11N20MIMO	Ant2	2462	-22.04	0.11	-21.93	≤8.00	PASS
11N20MIMO	total	2462	---	---	-18.82	≤8.00	PASS
11N40MIMO	Ant1	2422	-25.81	0.18	-25.63	≤8.00	PASS
11N40MIMO	Ant2	2422	-25.65	0.18	-25.47	≤8.00	PASS
11N40MIMO	total	2422	---	---	-22.54	≤8.00	PASS
11N40MIMO	Ant1	2437	-25.33	0.14	-25.19	≤8.00	PASS
11N40MIMO	Ant2	2437	-25.16	0.18	-24.98	≤8.00	PASS
11N40MIMO	total	2437	---	---	-22.07	≤8.00	PASS
11N40MIMO	Ant1	2452	-25.76	0.18	-25.58	≤8.00	PASS
11N40MIMO	Ant2	2452	-25.18	0.18	-25.00	≤8.00	PASS
11N40MIMO	total	2452	---	---	-22.27	≤8.00	PASS

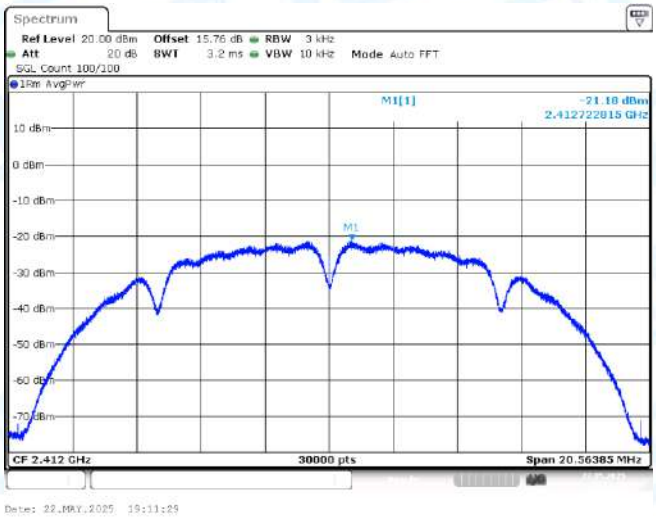
Note：The Duty Cycle Factor is compensated in the graph.

RF Conducted test Offset= cable loss+ Attenuator(10dB).

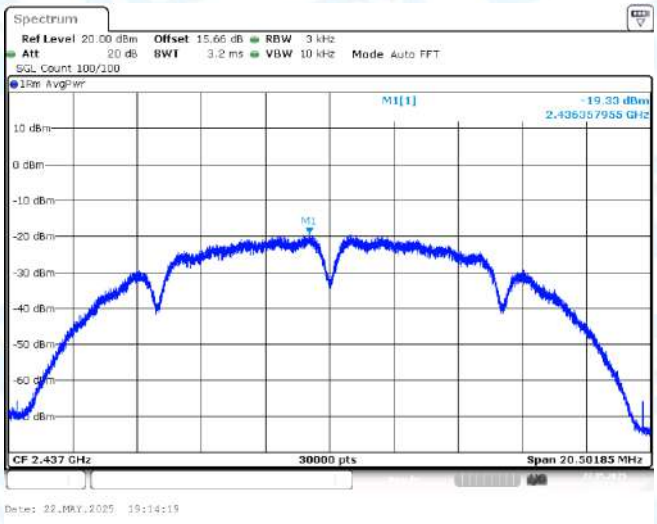
4.2 Test Graphs



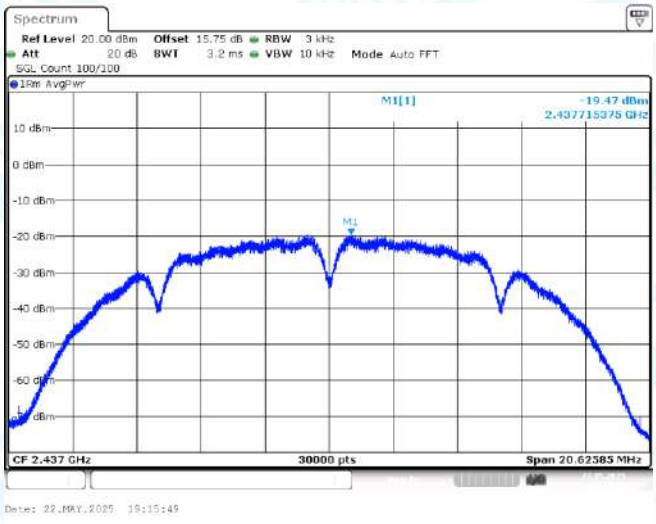
11B-CDD-Ant1-2412-PASS



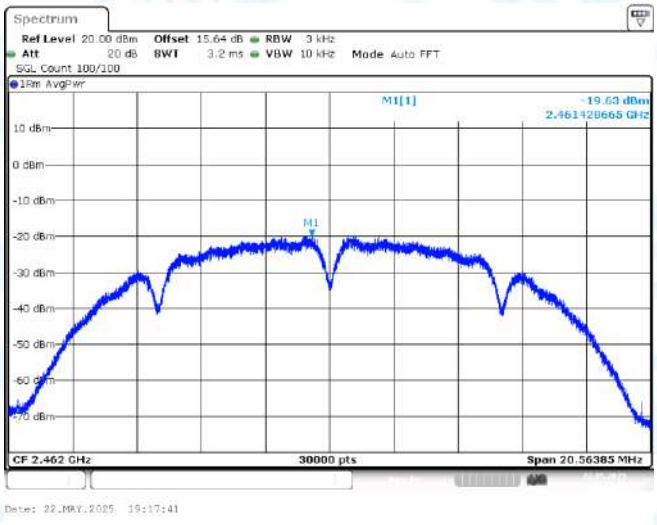
11B-CDD-Ant2-2412-PASS



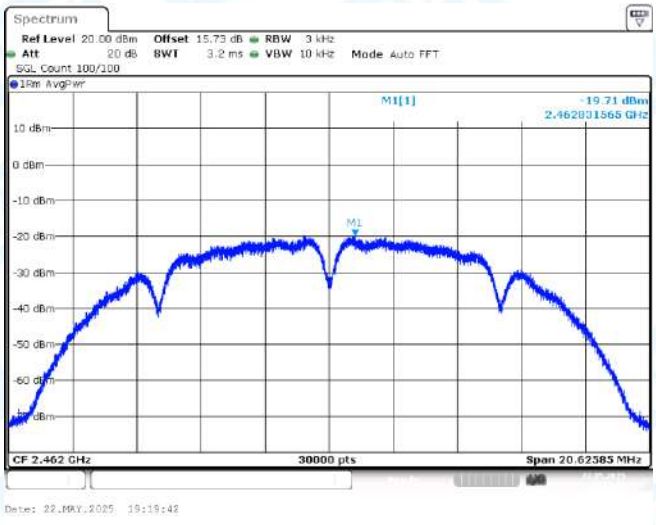
11B-CDD-Ant1-2437-PASS



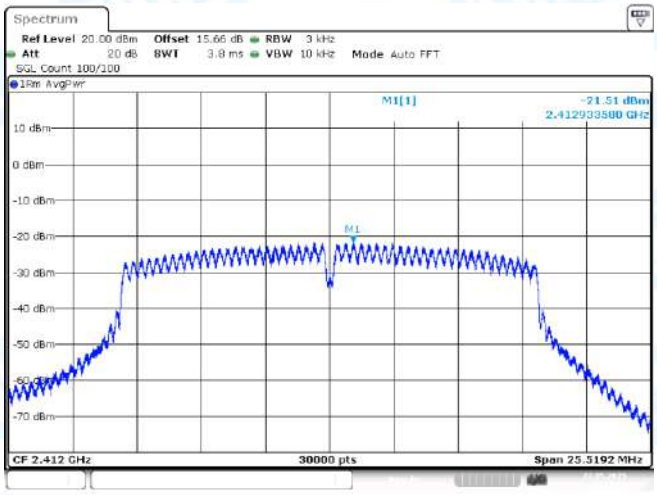
11B-CDD-Ant2-2437-PASS



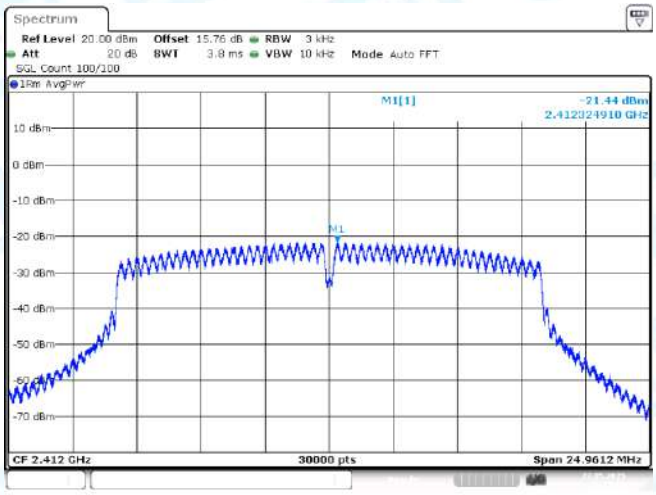
11B-CDD-Ant1-2462-PASS



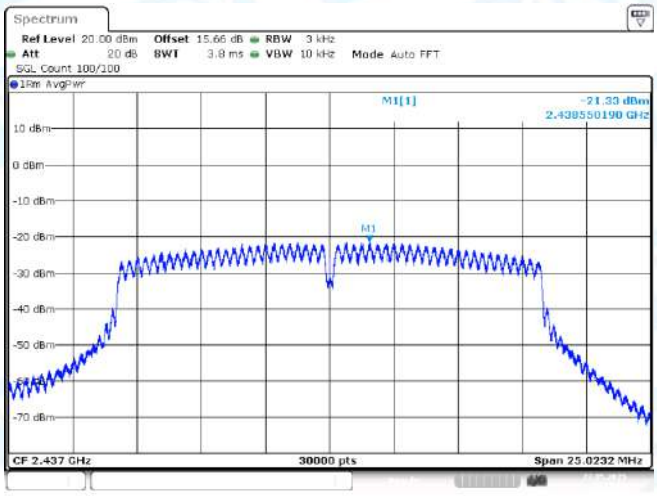
11B-CDD-Ant2-2462-PASS



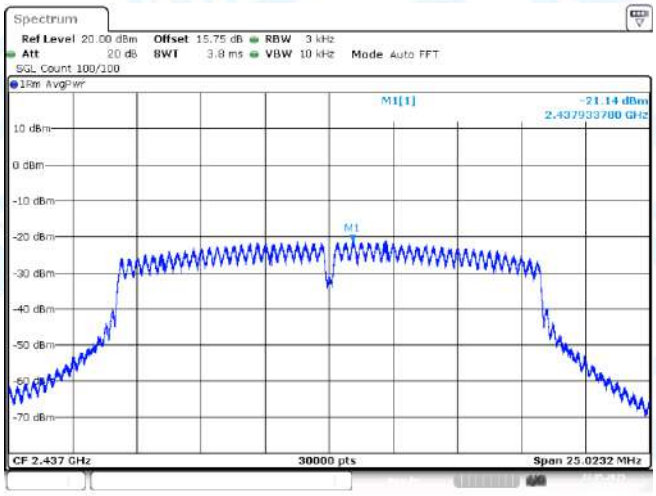
11G-CDD-Ant1-2412-PASS



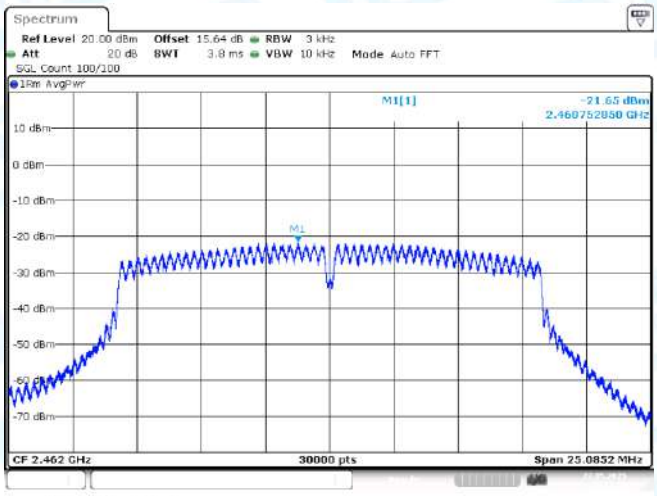
11G-CDD-Ant2-2412-PASS



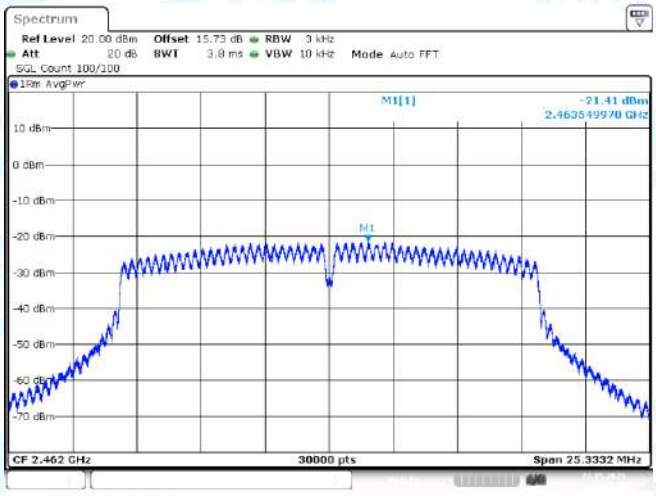
11G-CDD-Ant1-2437-PASS



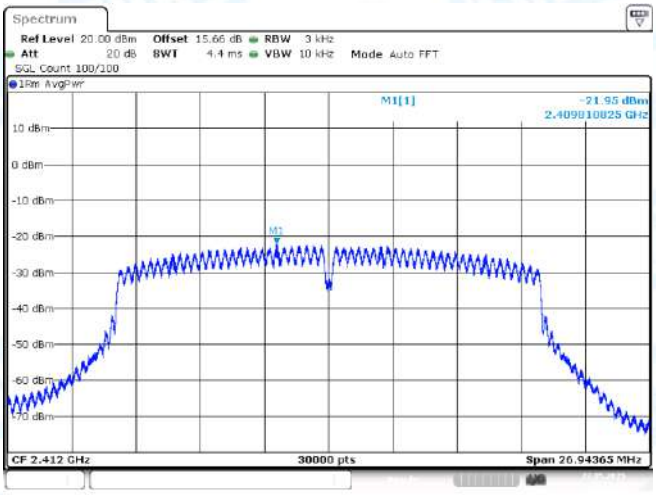
11G-CDD-Ant2-2437-PASS



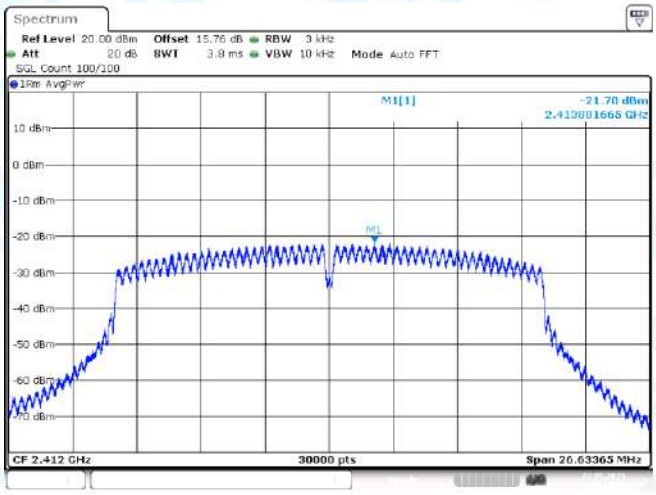
11G-CDD-Ant1-2462-PASS



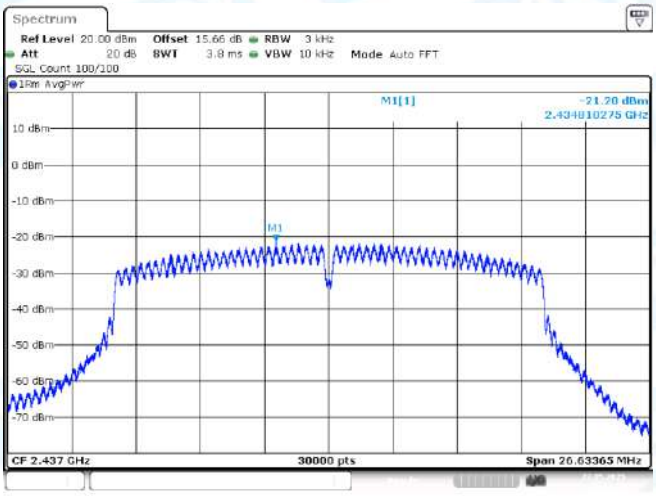
11G-CDD-Ant2-2462-PASS



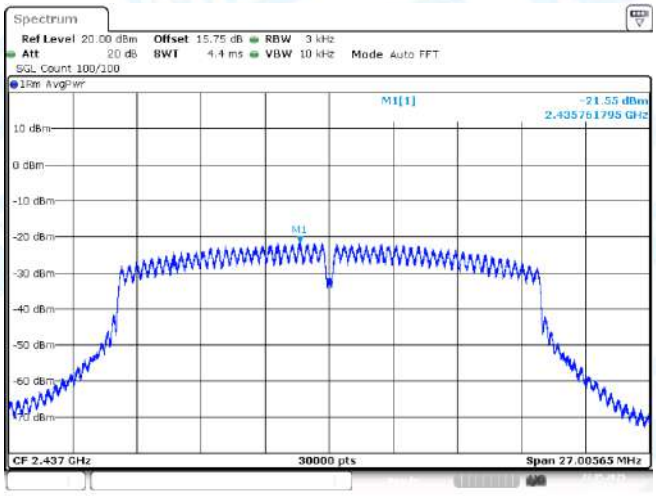
11N20MIMO-Ant1-2412-PASS



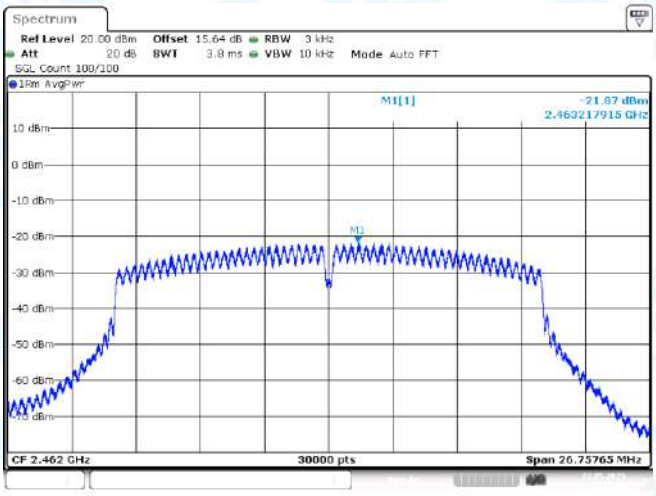
11N20MIMO-Ant2-2412-PASS



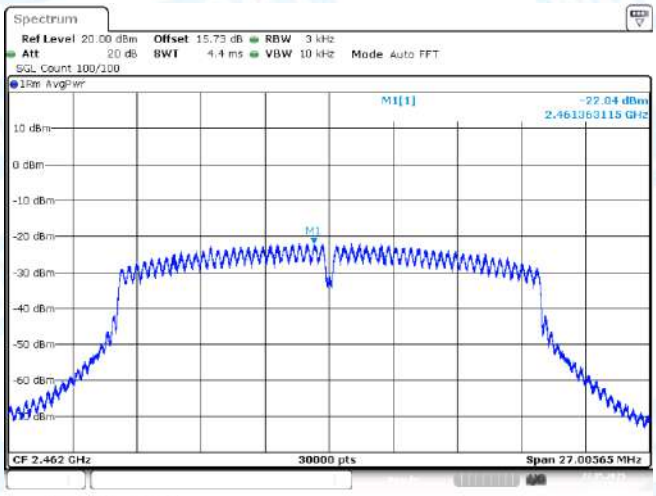
11N20MIMO-Ant1-2437-PASS



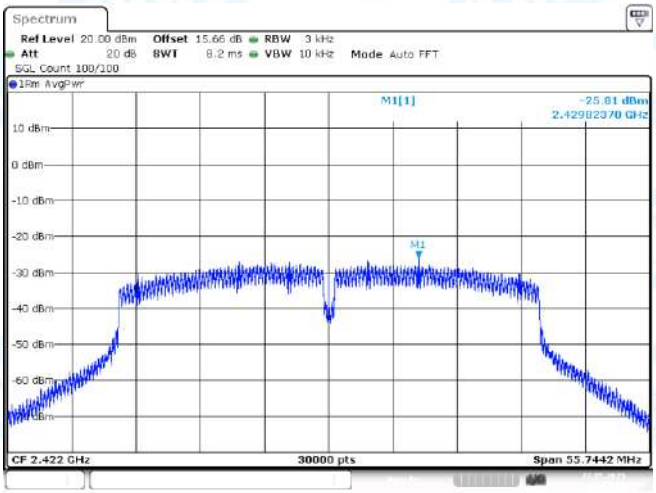
11N20MIMO-Ant2-2437-PASS



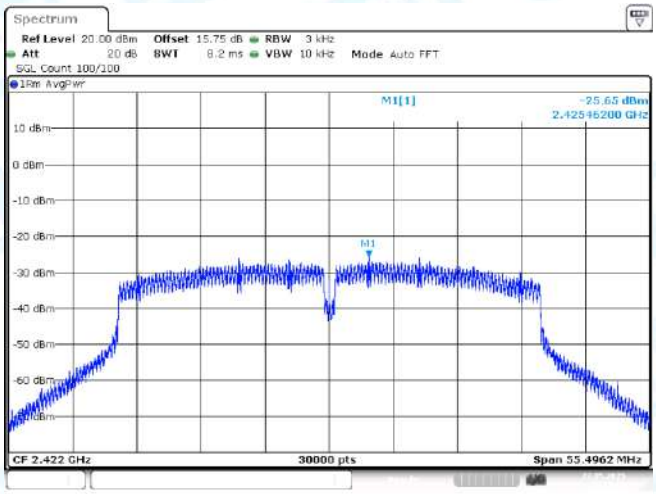
11N20MIMO-Ant1-2462-PASS



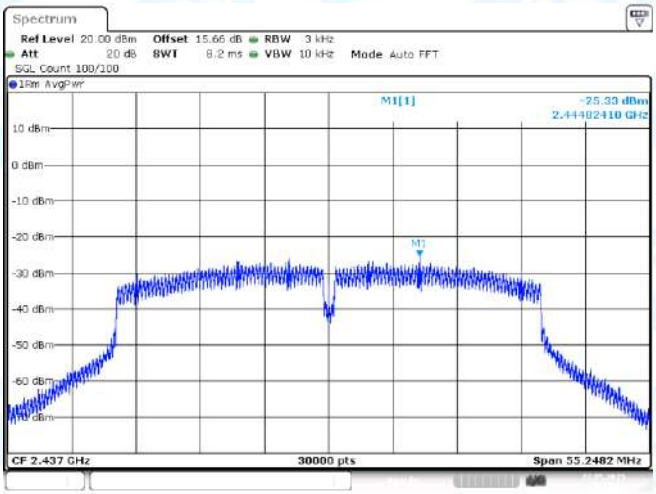
11N20MIMO-Ant2-2462-PASS



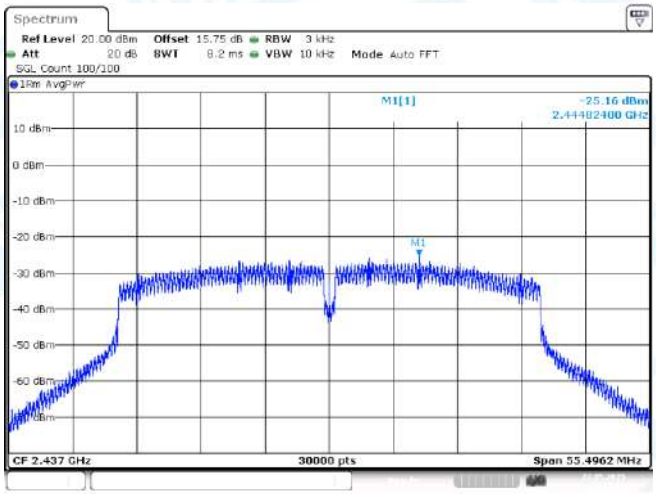
11N40MIMO-Ant1-2422-PASS



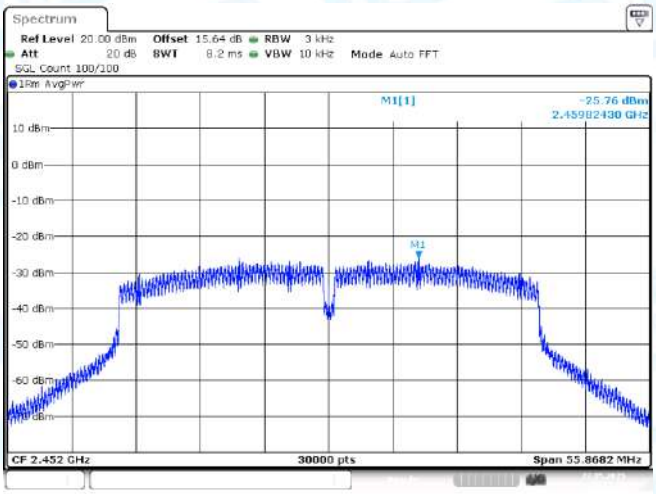
11N40MIMO-Ant2-2422-PASS



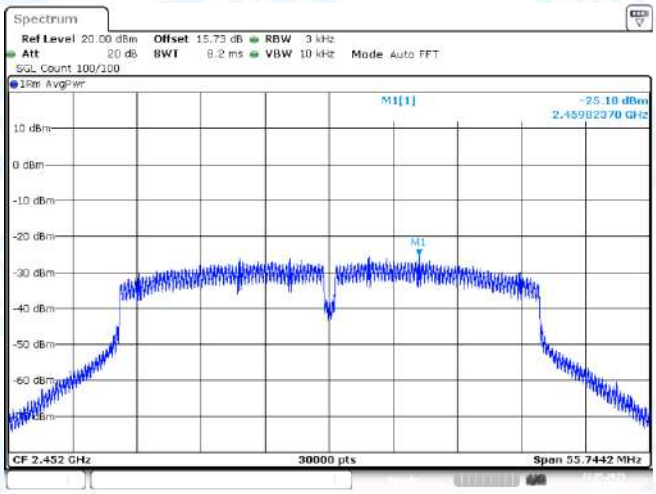
11N40MIMO-Ant1-2437-PASS



11N40MIMO-Ant2-2437-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

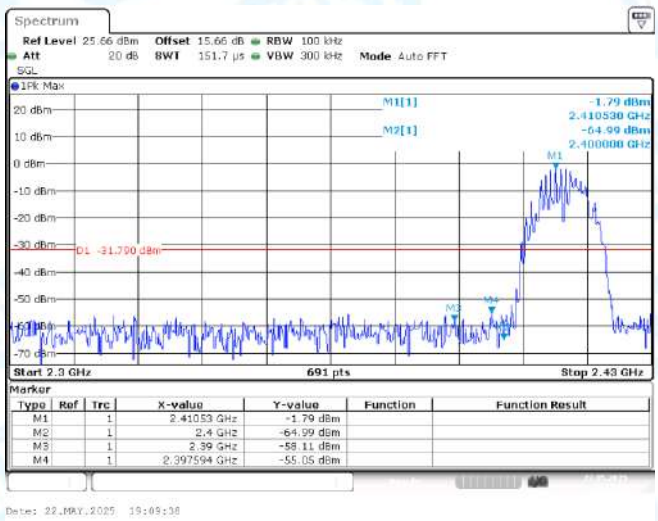
5: Band edge measurements

5.1 Test Result

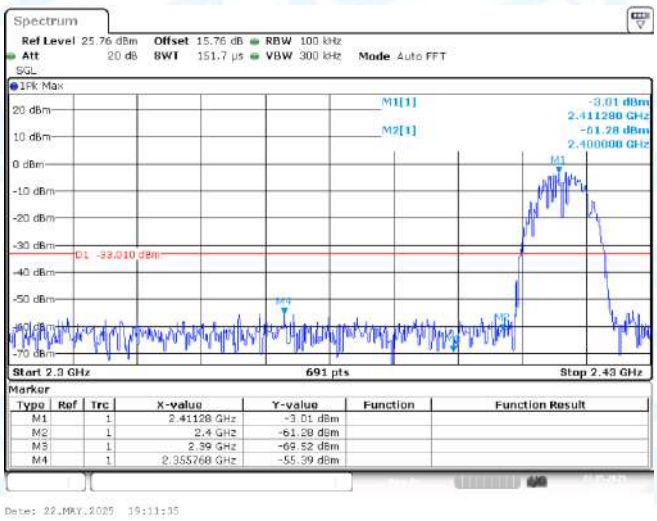
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	-1.79	-55.05	≤-31.79	PASS
11B-CDD	Ant2	Low	2412	-3.01	-55.39	≤-33.01	PASS
11B-CDD	Ant1	High	2462	-1.09	-54.67	≤-31.09	PASS
11B-CDD	Ant2	High	2462	-2.45	-53.49	≤-32.45	PASS
11G-CDD	Ant1	Low	2412	-4.34	-41.07	≤-34.34	PASS
11G-CDD	Ant2	Low	2412	-2.73	-44.55	≤-32.73	PASS
11G-CDD	Ant1	High	2462	-3.21	-52.16	≤-33.21	PASS
11G-CDD	Ant2	High	2462	-3.72	-53.33	≤-33.72	PASS
11N20MIMO	Ant1	Low	2412	-4.11	-44.05	≤-34.11	PASS
11N20MIMO	Ant2	Low	2412	1.05	-44.54	≤-28.95	PASS
11N20MIMO	Ant1	High	2462	-3.28	-53.35	≤-33.28	PASS
11N20MIMO	Ant2	High	2462	-2.05	-53.32	≤-32.05	PASS
11N40MIMO	Ant1	Low	2422	-7.68	-41.2	≤-37.68	PASS
11N40MIMO	Ant2	Low	2422	-7.85	-42.11	≤-37.85	PASS
11N40MIMO	Ant1	High	2452	-8.12	-53.26	≤-38.12	PASS
11N40MIMO	Ant2	High	2452	-6.17	-53.34	≤-36.17	PASS

Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

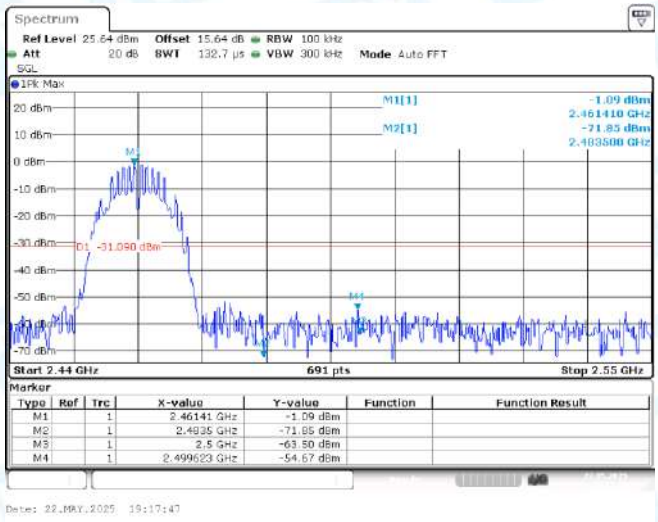
5.2 Test Graphs



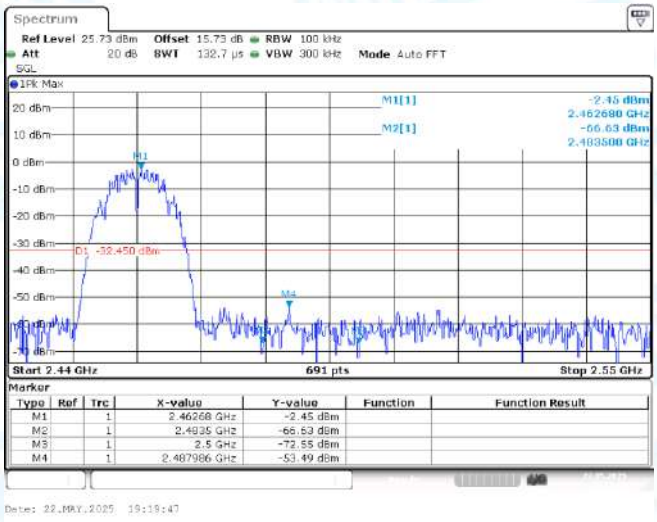
11B-CDD-Ant1-2412-PASS



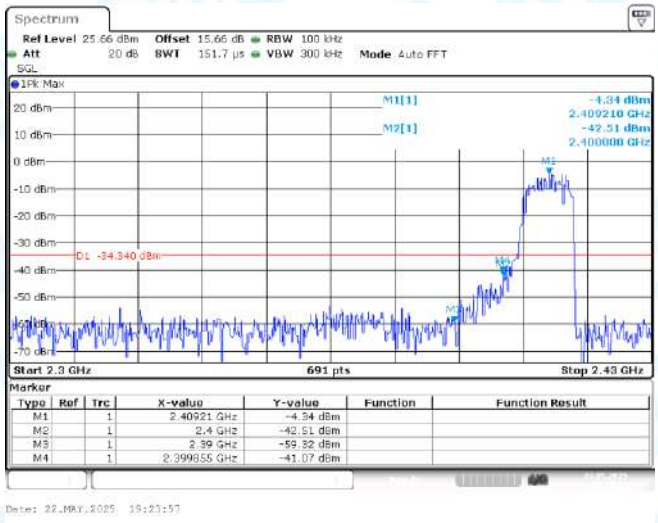
11B-CDD-Ant2-2412-PASS



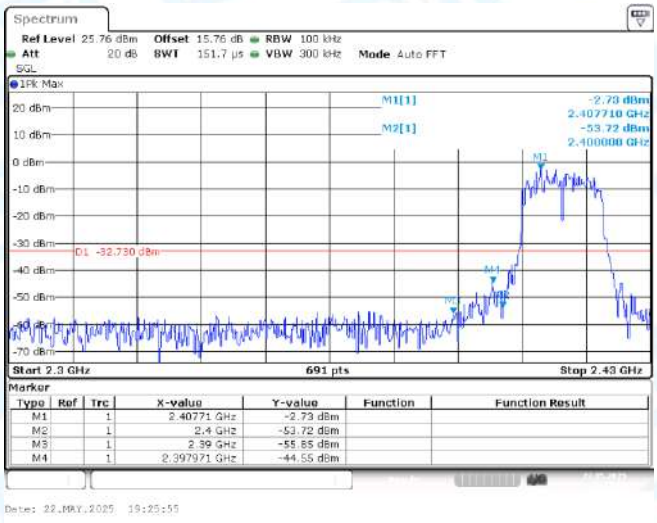
11B-CDD-Ant1-2462-PASS



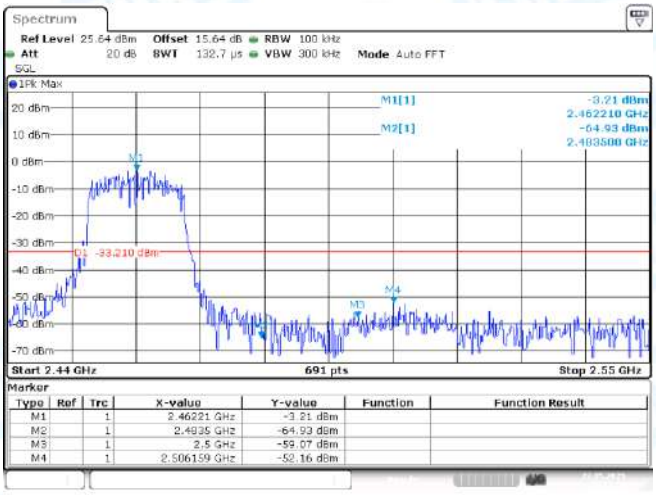
11B-CDD-Ant2-2462-PASS



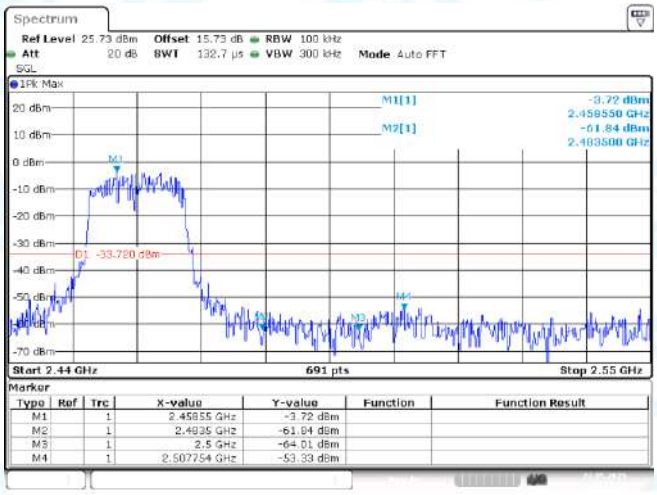
11G-CDD-Ant1-2412-PASS



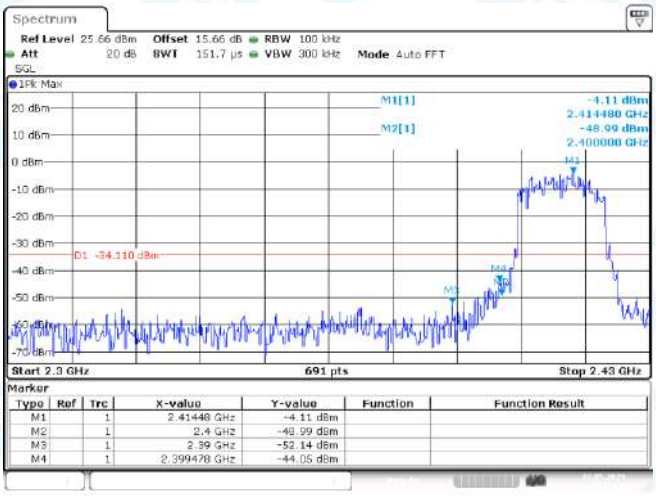
11G-CDD-Ant2-2412-PASS



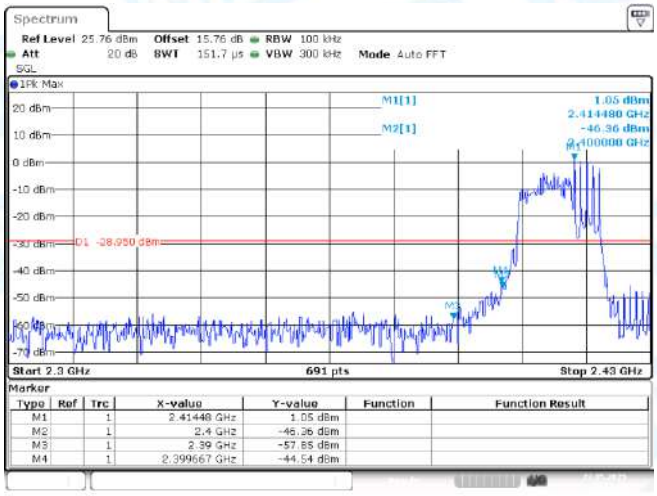
11G-CDD-Ant1-2462-PASS



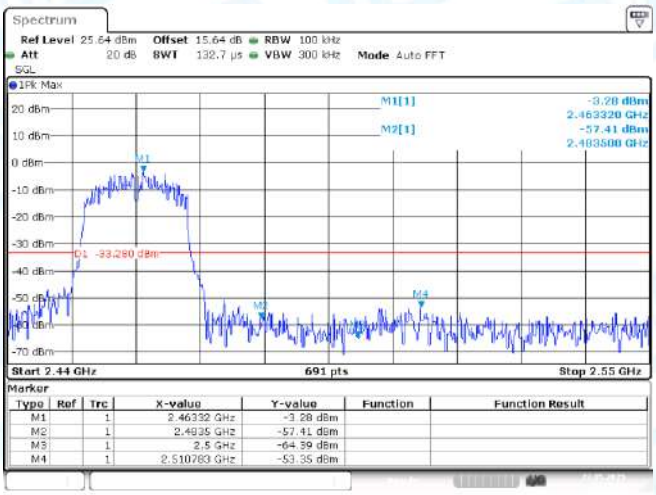
11G-CDD-Ant2-2462-PASS



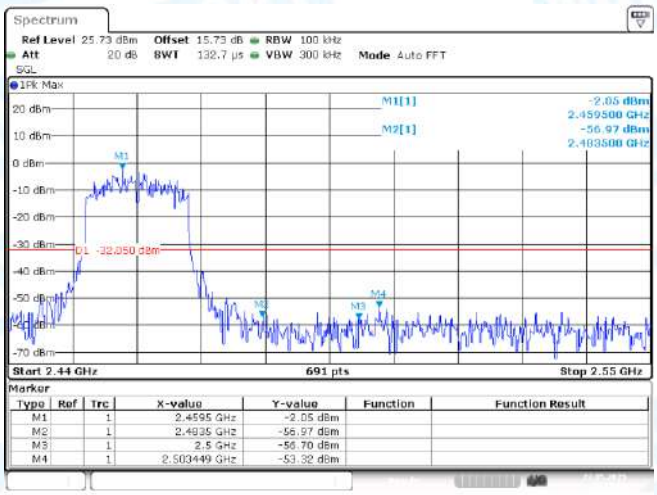
11N20MIMO-Ant1-2412-PASS



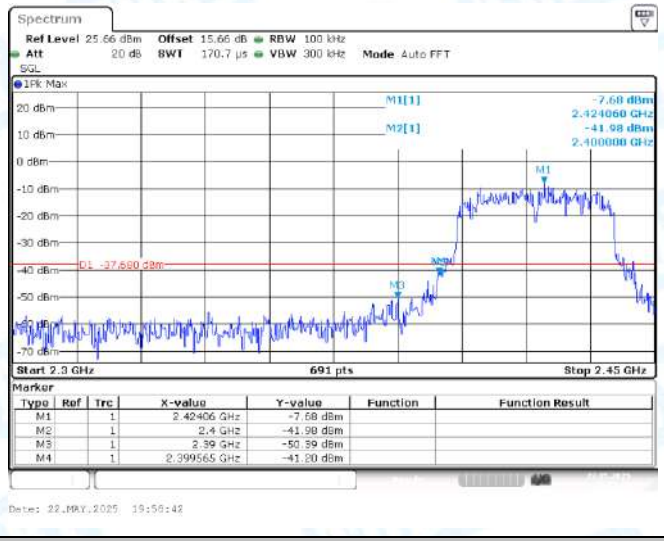
11N20MIMO-Ant2-2412-PASS



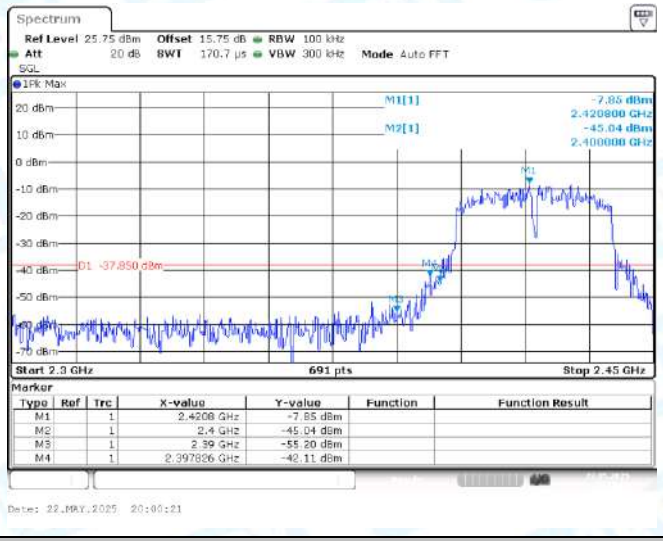
11N20MIMO-Ant1-2462-PASS



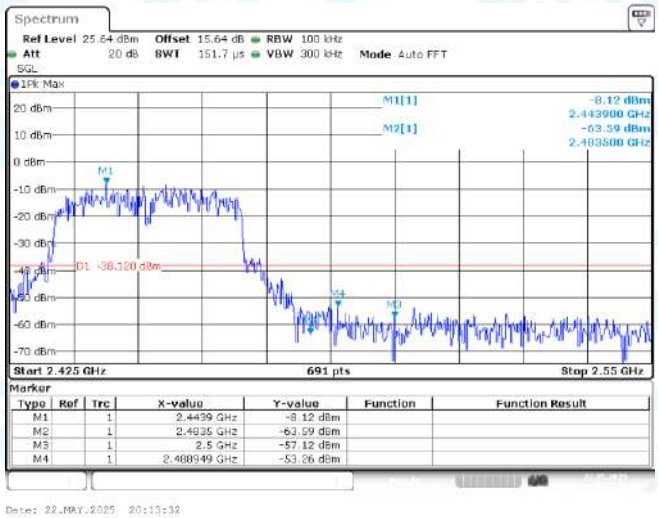
11N20MIMO-Ant2-2462-PASS



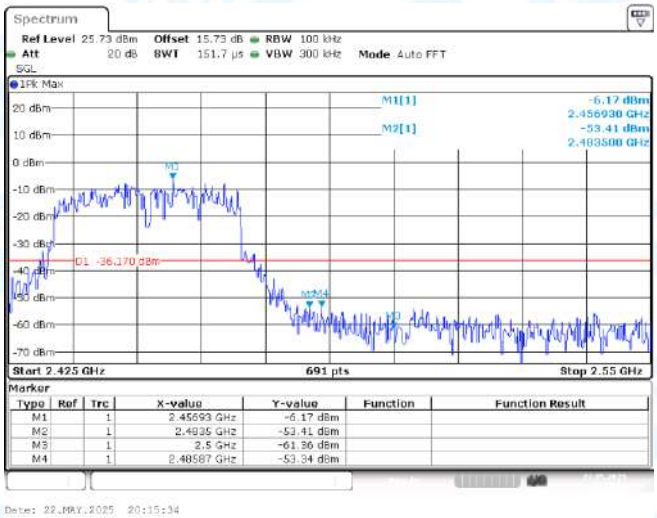
11N40MIMO-Ant1-2422-PASS



11N40MIMO-Ant2-2422-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

6: Conducted Spurious Emission

6.1 Test Result

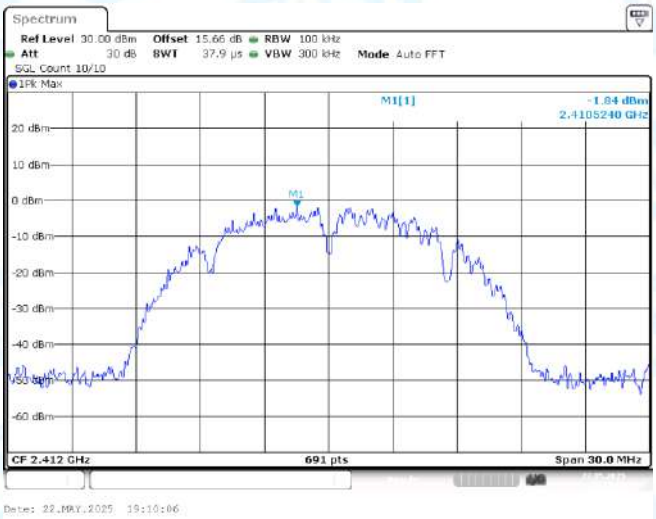
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	0~Reference	-1.84	-1.84	---	PASS
11B-CDD	Ant2	2412	0~Reference	-2.12	-2.12	---	PASS
11B-CDD	Ant1	2412	30~1000	-1.84	-45.72	≤-31.84	PASS
11B-CDD	Ant2	2412	30~1000	-2.12	-50.33	≤-32.12	PASS
11B-CDD	Ant1	2412	1000~26500	-1.84	-47.23	≤-31.84	PASS
11B-CDD	Ant2	2412	1000~26500	-2.12	-47.49	≤-32.12	PASS
11B-CDD	Ant2	2437	0~Reference	-0.16	-0.16	---	PASS
11B-CDD	Ant1	2437	0~Reference	0.60	0.60	---	PASS
11B-CDD	Ant2	2437	30~1000	-0.16	-50.72	≤-30.16	PASS
11B-CDD	Ant1	2437	30~1000	0.60	-45.64	≤-29.4	PASS
11B-CDD	Ant1	2437	1000~26500	0.60	-46.55	≤-29.4	PASS
11B-CDD	Ant2	2437	1000~26500	-0.16	-46.99	≤-30.16	PASS
11B-CDD	Ant1	2462	0~Reference	-0.35	-0.35	---	PASS
11B-CDD	Ant2	2462	0~Reference	0.14	0.14	---	PASS
11B-CDD	Ant1	2462	30~1000	-0.35	-45.71	≤-30.35	PASS
11B-CDD	Ant2	2462	30~1000	0.14	-50.07	≤-29.86	PASS
11B-CDD	Ant1	2462	1000~26500	-0.35	-46.9	≤-30.35	PASS
11B-CDD	Ant2	2462	1000~26500	0.14	-47.48	≤-29.86	PASS
11G-CDD	Ant1	2412	0~Reference	-2.72	-2.72	---	PASS
11G-CDD	Ant2	2412	0~Reference	-1.93	-1.93	---	PASS
11G-CDD	Ant1	2412	30~1000	-2.72	-45.52	≤-32.72	PASS
11G-CDD	Ant2	2412	30~1000	-1.93	-50.29	≤-31.93	PASS
11G-CDD	Ant1	2412	1000~26500	-2.72	-47.1	≤-32.72	PASS
11G-CDD	Ant2	2412	1000~26500	-1.93	-47.49	≤-31.93	PASS
11G-CDD	Ant1	2437	0~Reference	-1.67	-1.67	---	PASS
11G-CDD	Ant2	2437	0~Reference	-1.86	-1.86	---	PASS
11G-CDD	Ant1	2437	30~1000	-1.67	-45.59	≤-31.67	PASS
11G-CDD	Ant2	2437	30~1000	-1.86	-50.32	≤-31.86	PASS
11G-CDD	Ant1	2437	1000~26500	-1.67	-46.69	≤-31.67	PASS
11G-CDD	Ant2	2437	1000~26500	-1.86	-47.41	≤-31.86	PASS
11G-CDD	Ant1	2462	0~Reference	-1.83	-1.83	---	PASS
11G-CDD	Ant2	2462	0~Reference	-1.02	-1.02	---	PASS
11G-CDD	Ant1	2462	30~1000	-1.83	-45.65	≤-31.83	PASS
11G-CDD	Ant2	2462	30~1000	-1.02	-50.24	≤-31.02	PASS
11G-CDD	Ant1	2462	1000~26500	-1.83	-46.92	≤-31.83	PASS
11G-CDD	Ant2	2462	1000~26500	-1.02	-46.37	≤-31.02	PASS
11N20MIMO	Ant1	2412	0~Reference	-2.73	-2.73	---	PASS
11N20MIMO	Ant2	2412	0~Reference	-2.24	-2.24	---	PASS
11N20MIMO	Ant1	2412	30~1000	-2.73	-45.64	≤-32.73	PASS
11N20MIMO	Ant2	2412	30~1000	-2.24	-50.32	≤-32.24	PASS

11N20MIMO	Ant1	2412	1000~26500	-2.73	-46.78	≤-32.73	PASS
11N20MIMO	Ant2	2412	1000~26500	-2.24	-47.25	≤-32.24	PASS
11N20MIMO	Ant1	2437	0~Reference	-1.92	-1.92	---	PASS
11N20MIMO	Ant2	2437	0~Reference	-1.69	-1.69	---	PASS
11N20MIMO	Ant1	2437	30~1000	-1.92	-45.48	≤-31.92	PASS
11N20MIMO	Ant2	2437	30~1000	-1.69	-50.46	≤-31.69	PASS
11N20MIMO	Ant1	2437	1000~26500	-1.92	-46.94	≤-31.92	PASS
11N20MIMO	Ant2	2437	1000~26500	-1.69	-46.91	≤-31.69	PASS
11N20MIMO	Ant1	2462	0~Reference	-1.78	-1.78	---	PASS
11N20MIMO	Ant2	2462	0~Reference	-2.58	-2.58	---	PASS
11N20MIMO	Ant1	2462	30~1000	-1.78	-45.35	≤-31.78	PASS
11N20MIMO	Ant2	2462	30~1000	-2.58	-50.22	≤-32.58	PASS
11N20MIMO	Ant1	2462	1000~26500	-1.78	-46.5	≤-31.78	PASS
11N20MIMO	Ant2	2462	1000~26500	-2.58	-46.39	≤-32.58	PASS
11N40MIMO	Ant1	2422	0~Reference	-7.54	-7.54	---	PASS
11N40MIMO	Ant2	2422	0~Reference	-6.80	-6.80	---	PASS
11N40MIMO	Ant1	2422	30~1000	-7.54	-45.48	≤-37.54	PASS
11N40MIMO	Ant2	2422	30~1000	-6.80	-50.58	≤-36.8	PASS
11N40MIMO	Ant1	2422	1000~26500	-7.54	-47.28	≤-37.54	PASS
11N40MIMO	Ant2	2422	1000~26500	-6.80	-45.92	≤-36.8	PASS
11N40MIMO	Ant1	2437	0~Reference	-6.82	-6.82	---	PASS
11N40MIMO	Ant2	2437	0~Reference	-7.46	-7.46	---	PASS
11N40MIMO	Ant1	2437	30~1000	-6.82	-45.57	≤-36.82	PASS
11N40MIMO	Ant2	2437	30~1000	-7.46	-50.54	≤-37.46	PASS
11N40MIMO	Ant1	2437	1000~26500	-6.82	-46.35	≤-36.82	PASS
11N40MIMO	Ant2	2437	1000~26500	-7.46	-47.4	≤-37.46	PASS
11N40MIMO	Ant1	2452	0~Reference	-6.87	-6.87	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-4.84	-4.84	---	PASS
11N40MIMO	Ant1	2452	30~1000	-6.87	-45.89	≤-36.87	PASS
11N40MIMO	Ant2	2452	30~1000	-4.84	-50.51	≤-34.84	PASS
11N40MIMO	Ant1	2452	1000~26500	-6.87	-46.27	≤-36.87	PASS
11N40MIMO	Ant2	2452	1000~26500	-4.84	-46.8	≤-34.84	PASS

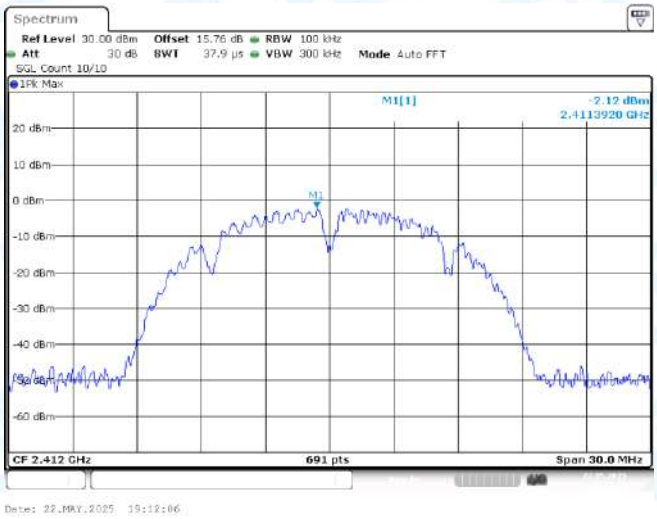
Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

For conducted spurious emission test, cable loss is the maximum value in the range of test.

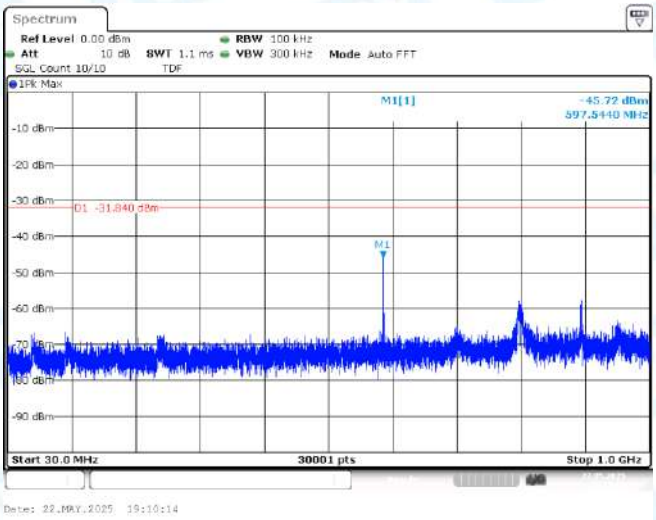
6.2 Test Graphs



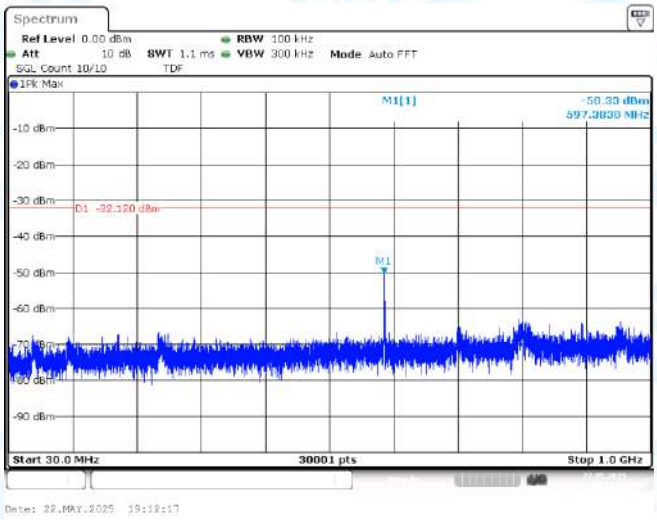
11B-CDD-Ant1-2412-0~Reference-PASS



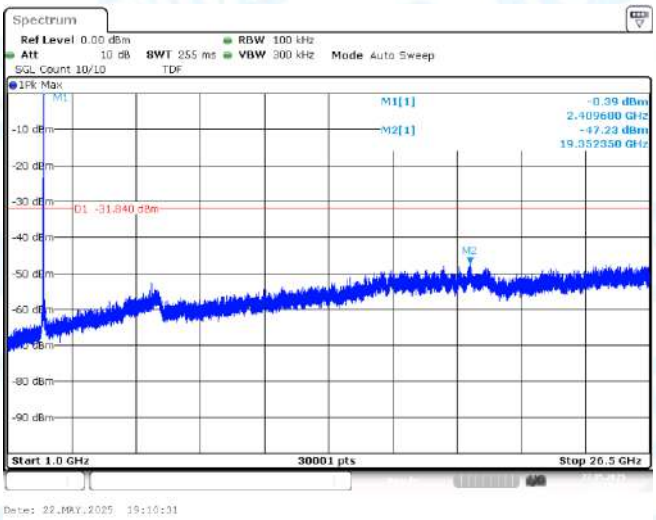
11B-CDD-Ant2-2412-0~Reference-PASS



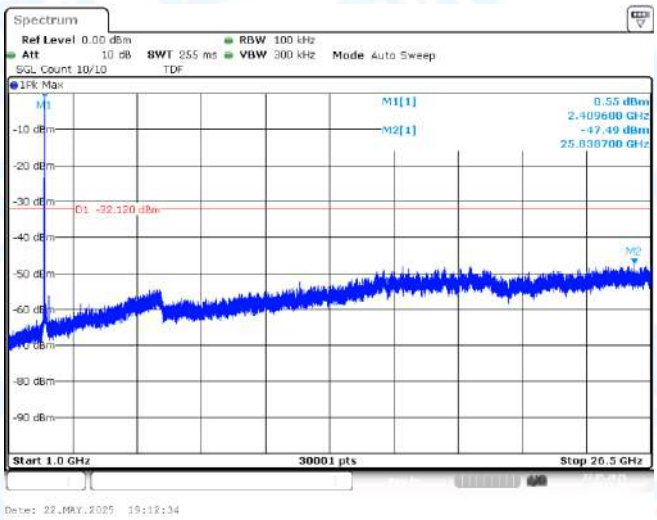
11B-CDD-Ant1-2412-30~1000-PASS



11B-CDD-Ant2-2412-30~1000-PASS



11B-CDD-Ant1-2412-1000~26500-PASS



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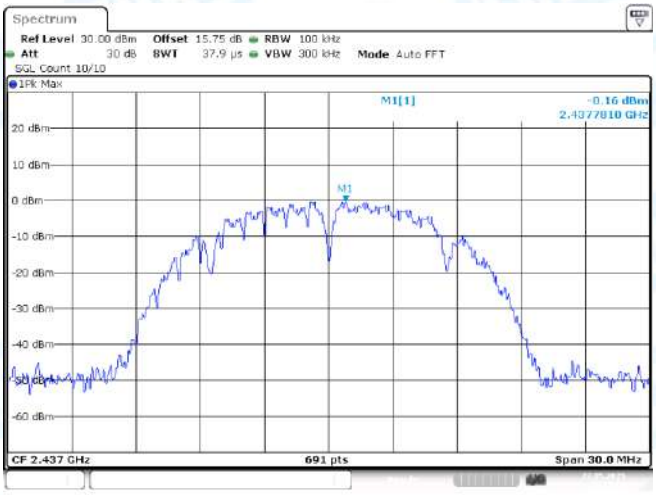
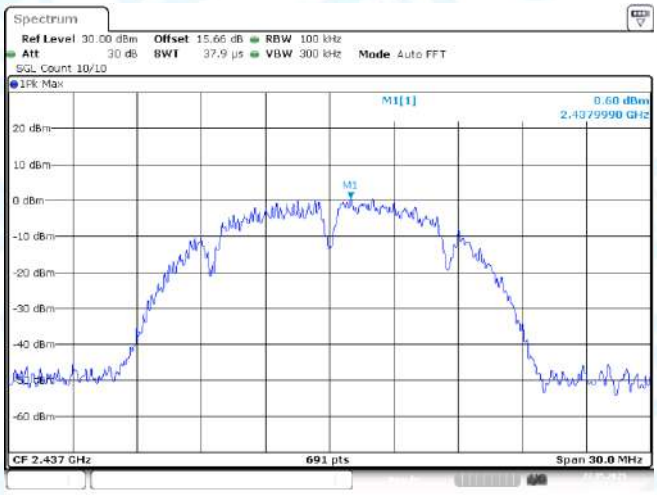


11B-CDD-Ant2-2437-0~Reference-PASS



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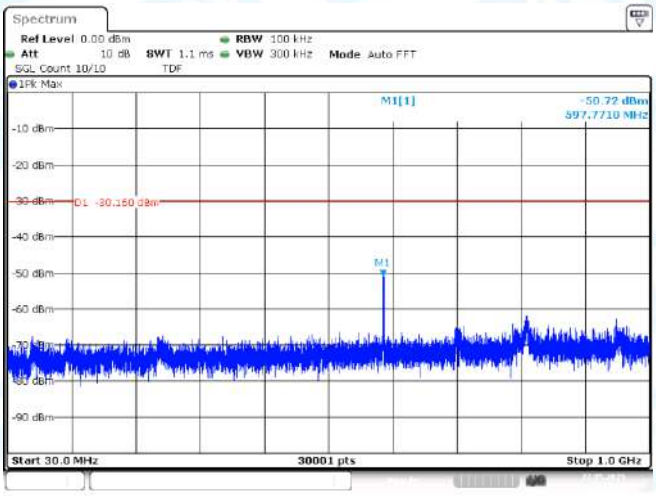

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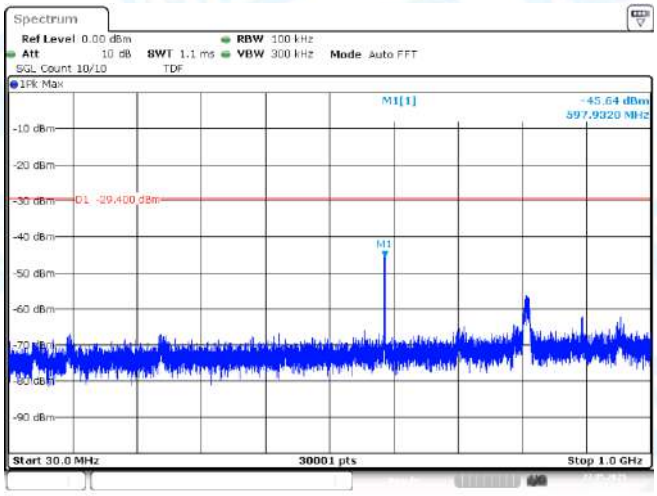

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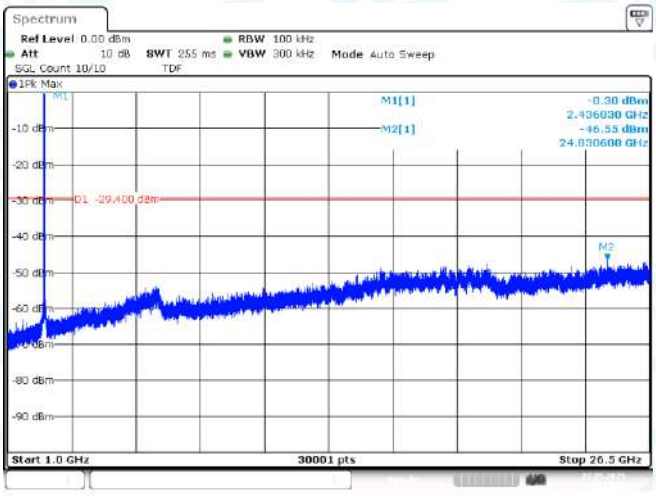

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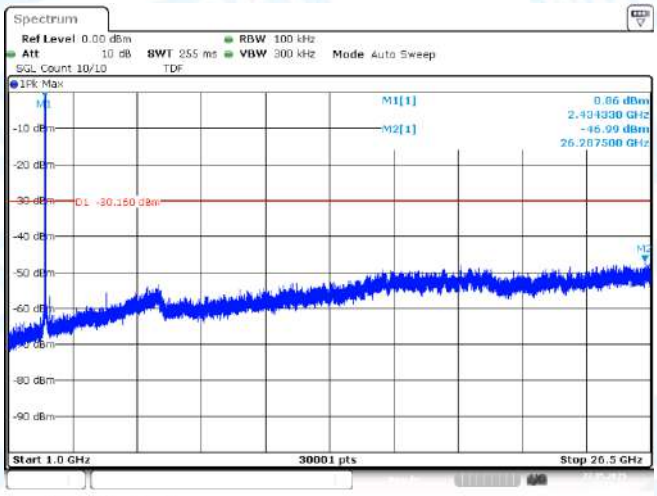
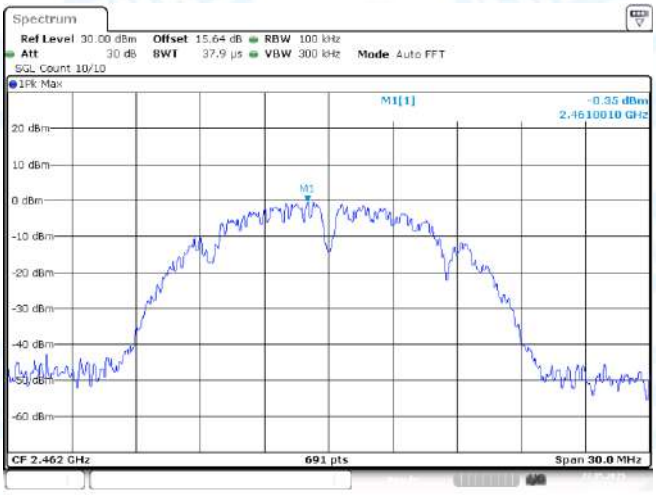
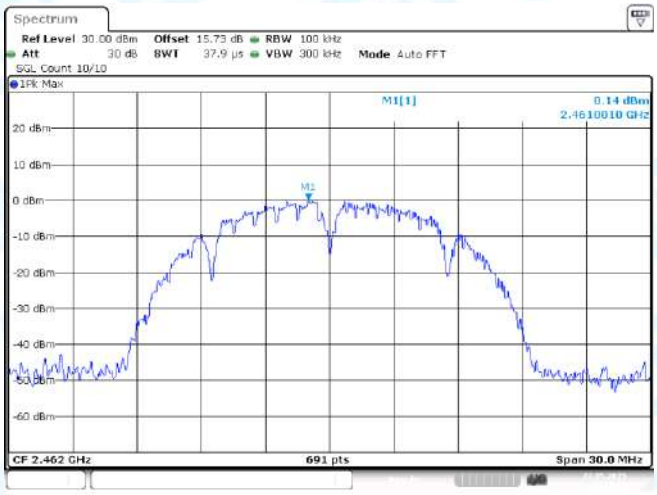


11B-CDD-Ant2-2437-1000~26500-PASS



11B-CDD-Ant1-2462-0~Reference-PASS



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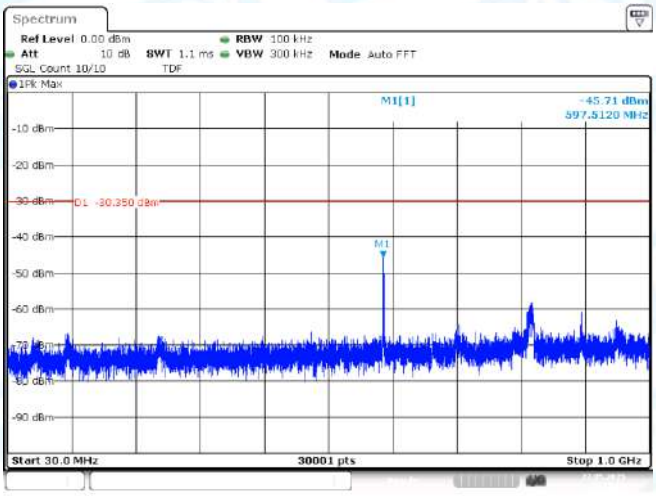
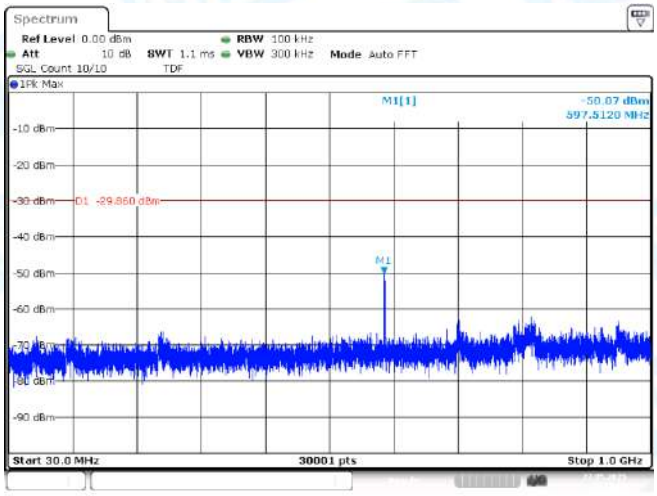
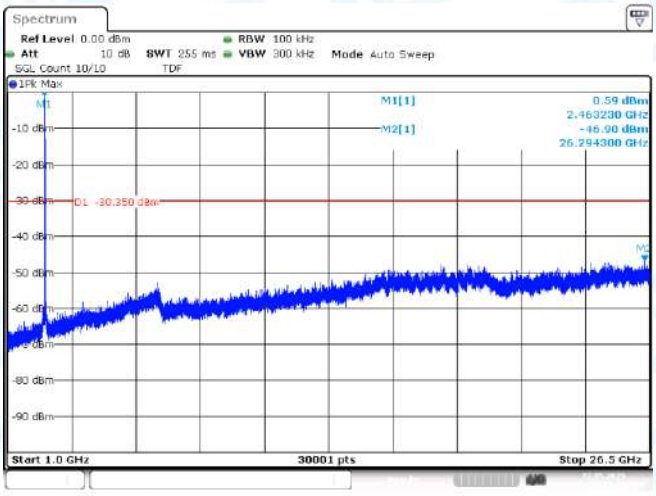


11B-CDD-Ant1-2462-30~1000-PASS



11B-CDD-Ant2-2462-30~1000-PASS



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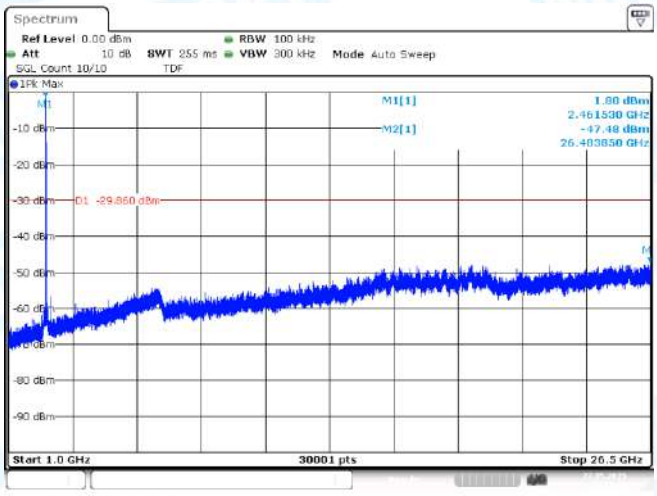

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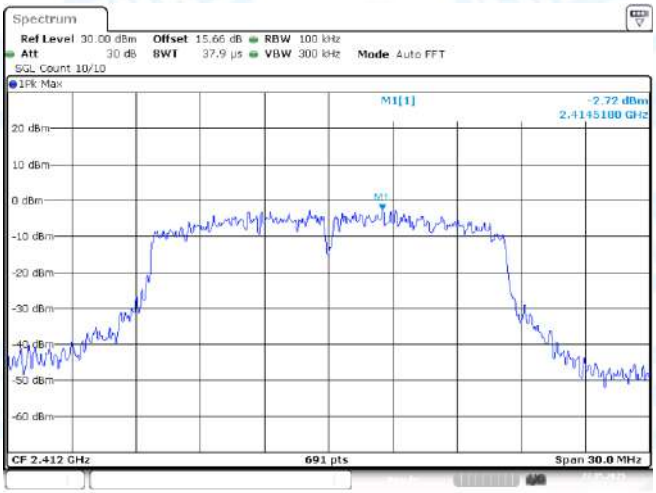
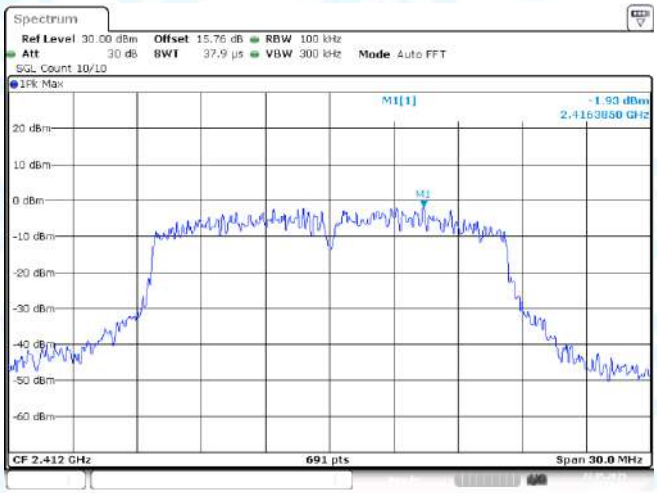
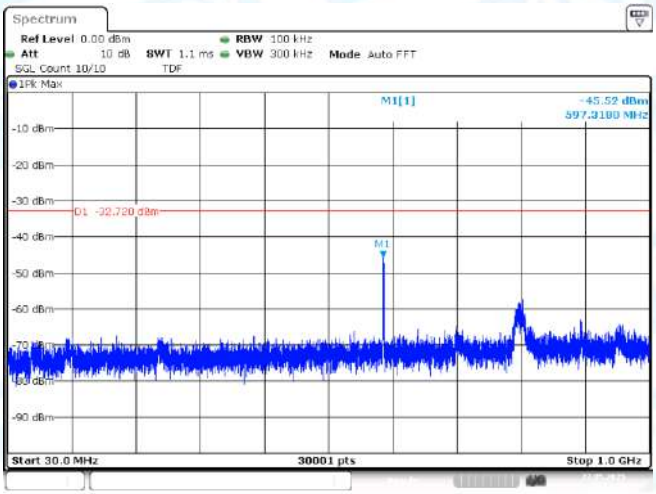


11G-CDD-Ant1-2412-0~Reference-PASS



11G-CDD-Ant2-2412-0~Reference-PASS



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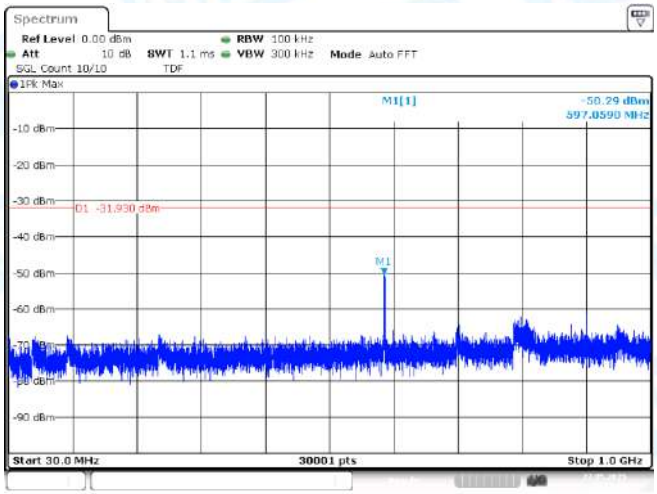
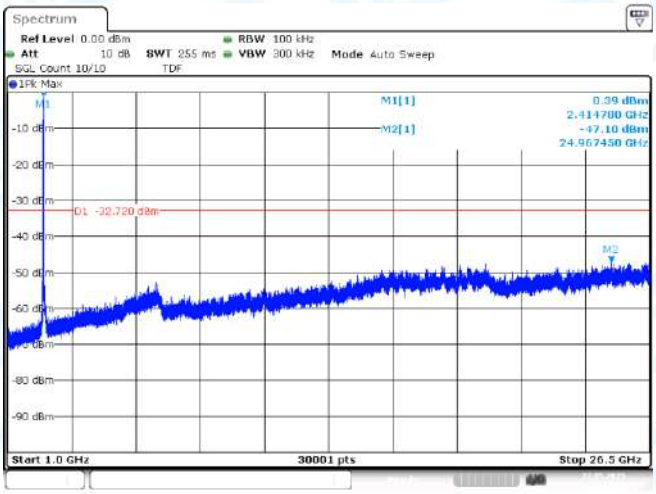
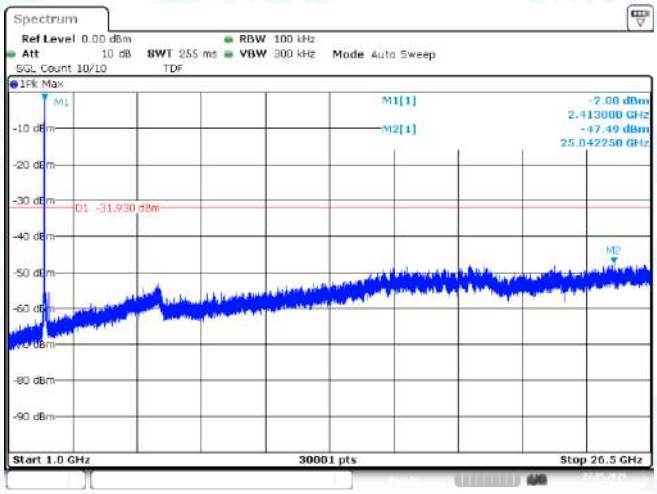


11G-CDD-Ant2-2412-30~1000-PASS



11G-CDD-Ant1-2412-1000~26500-PASS



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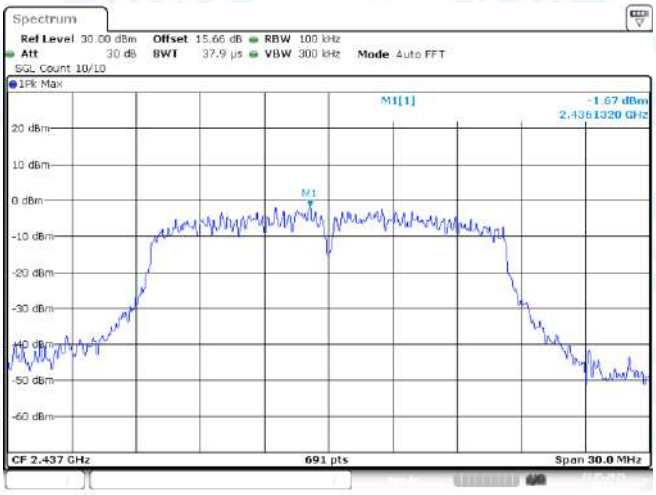
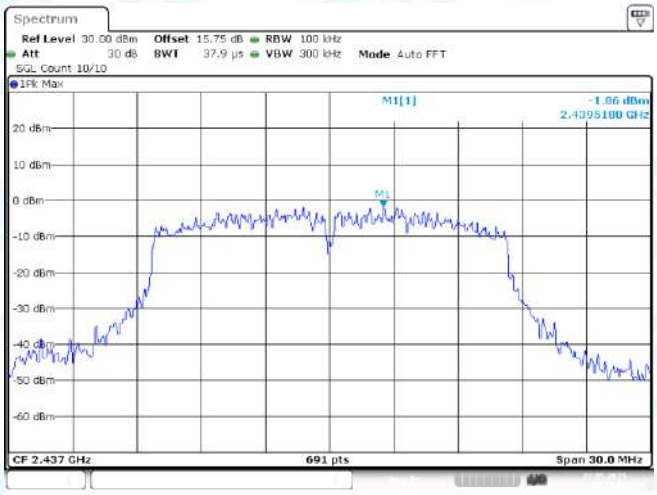
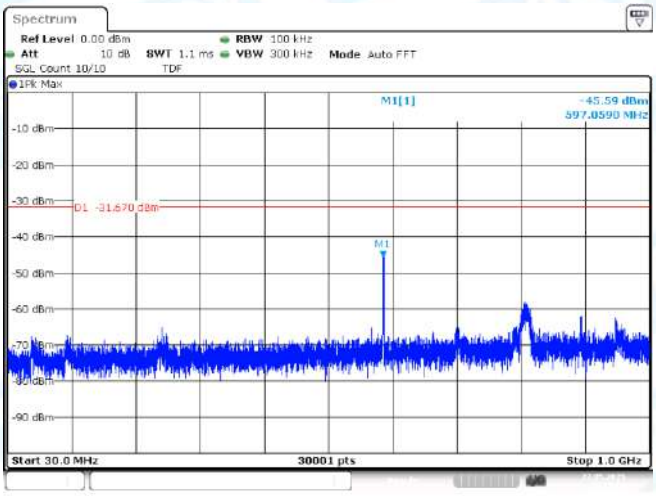


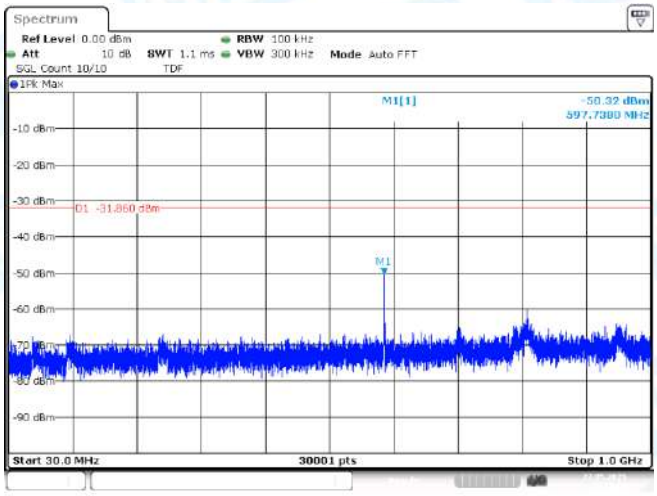
11G-CDD-Ant1-2437-0~Reference-PASS



11G-CDD-Ant2-2437-0~Reference-PASS



11G-CDD-Ant1-2437-30~1000-PASS



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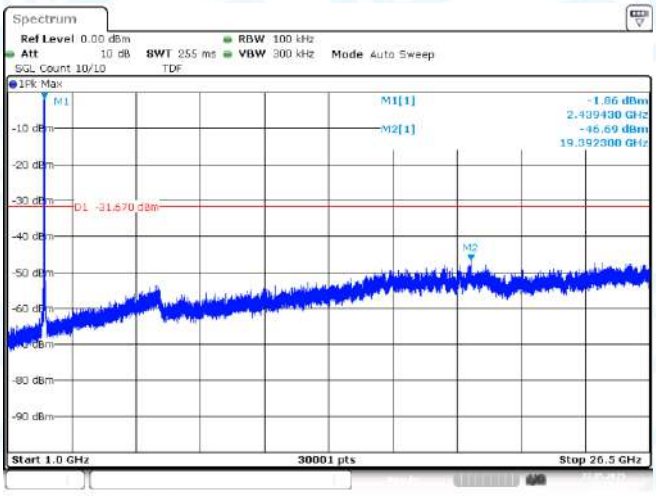

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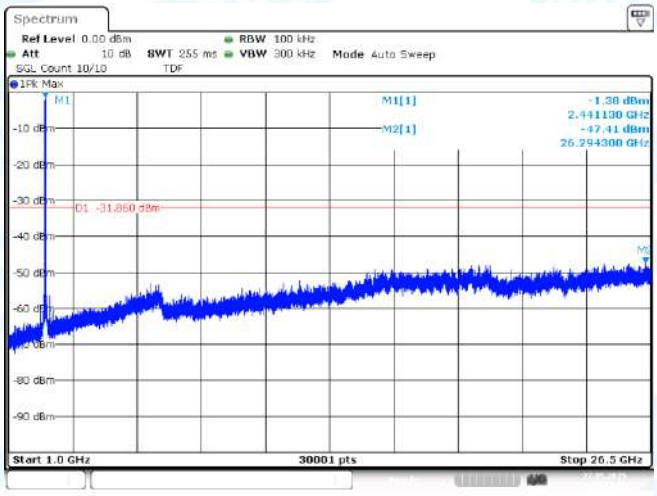
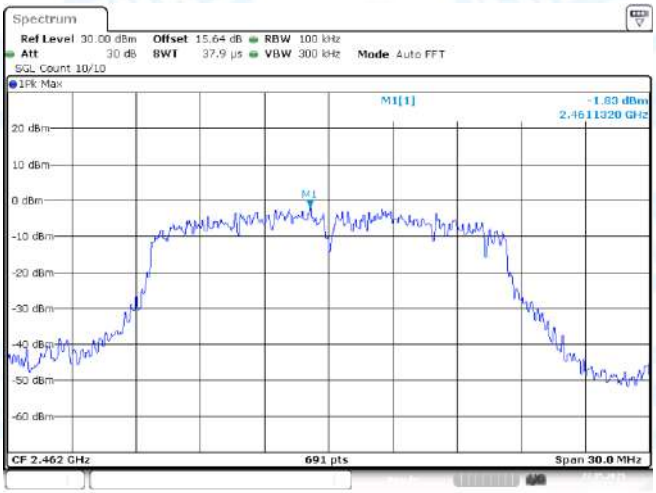
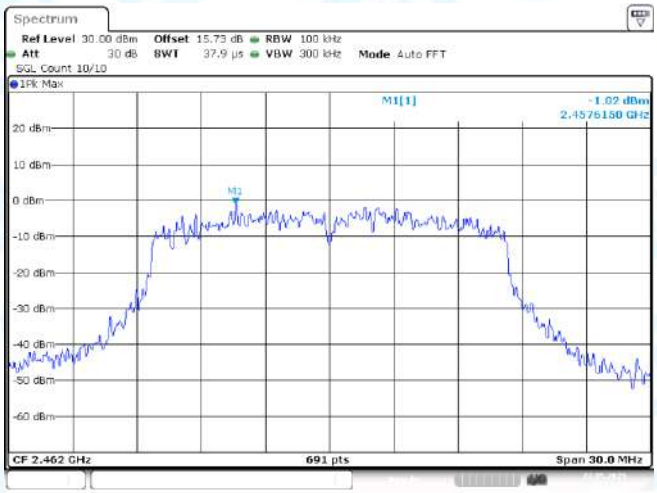


11G-CDD-Ant2-2437-1000~26500-PASS



11G-CDD-Ant1-2462-0~Reference-PASS



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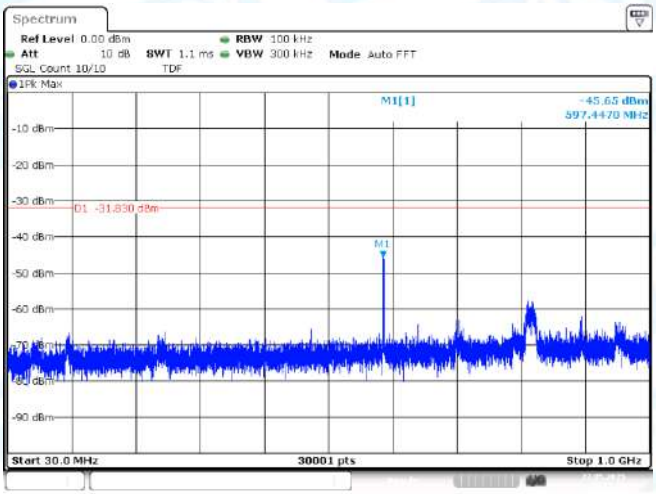

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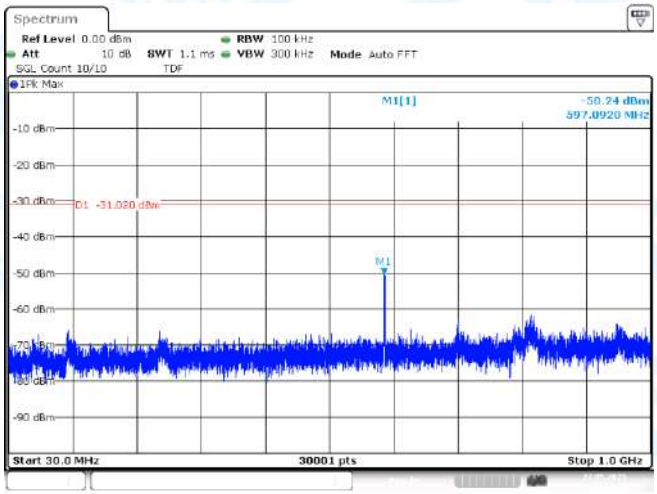

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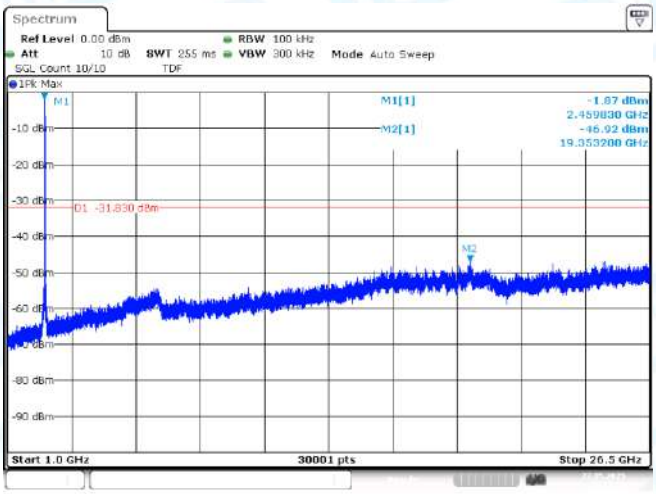

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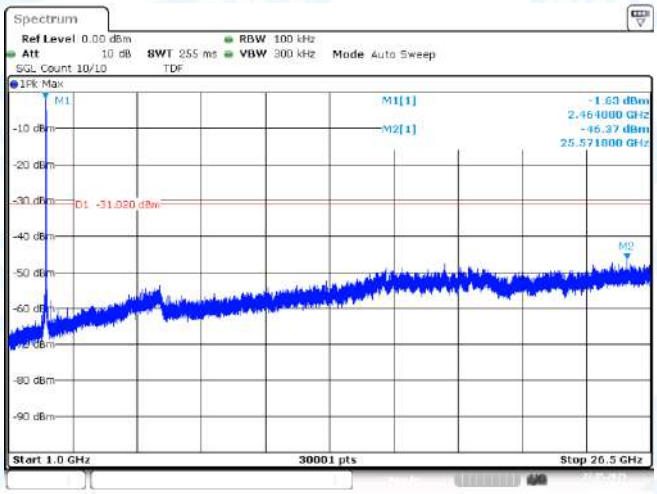

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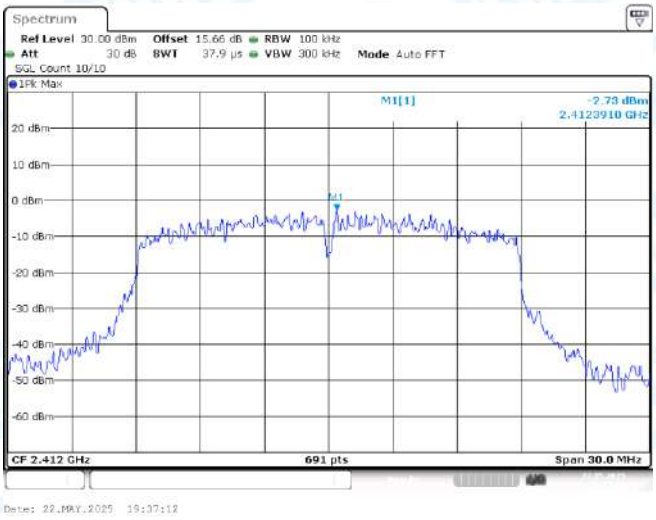

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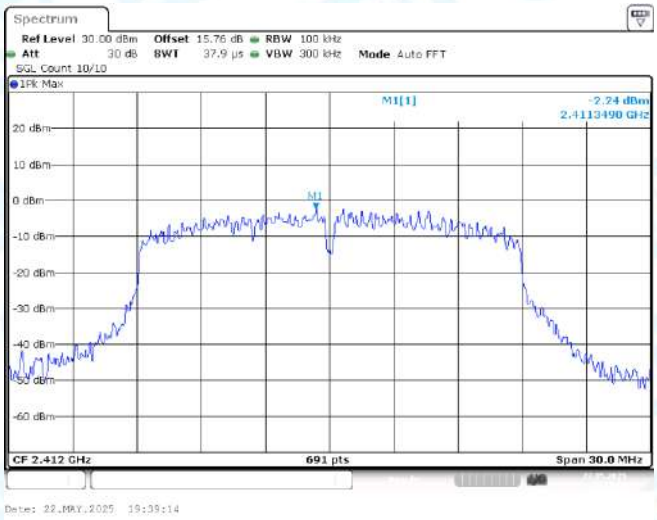

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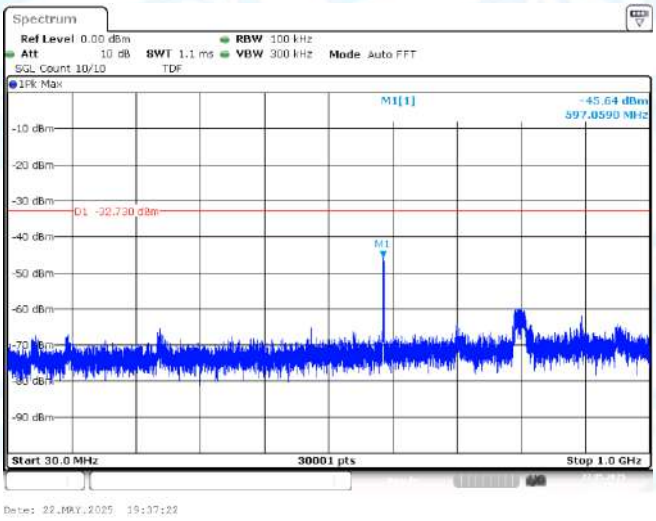

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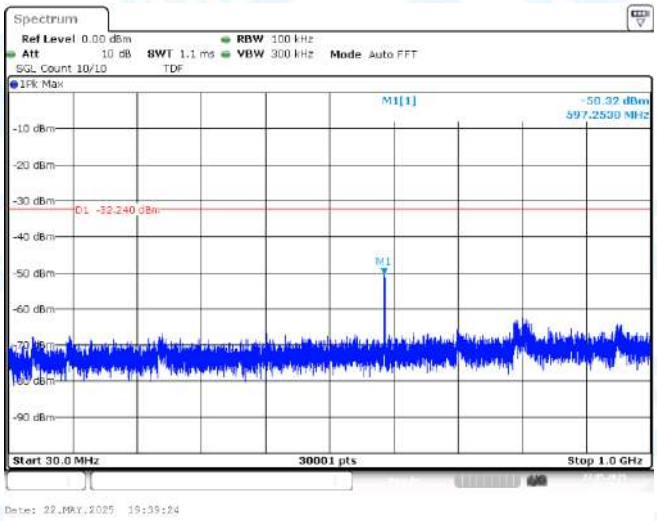

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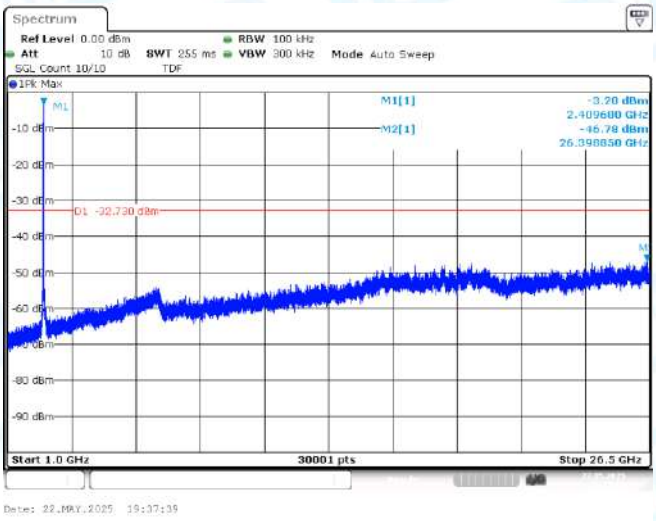

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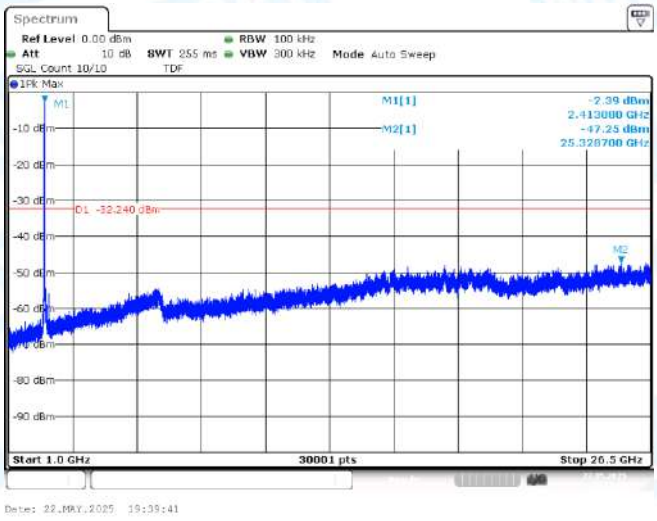

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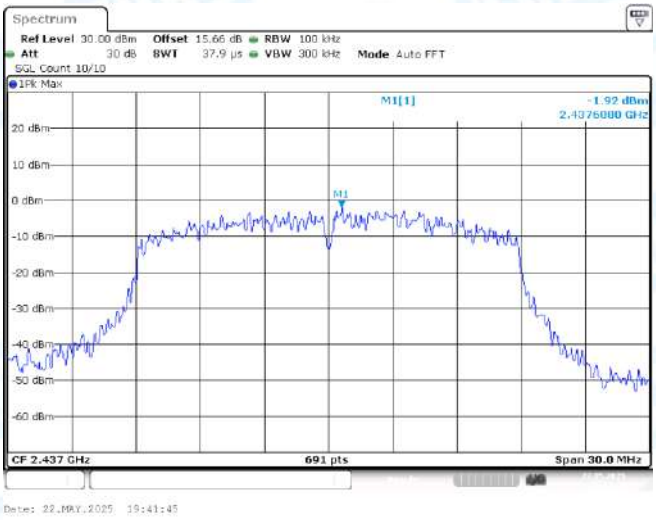
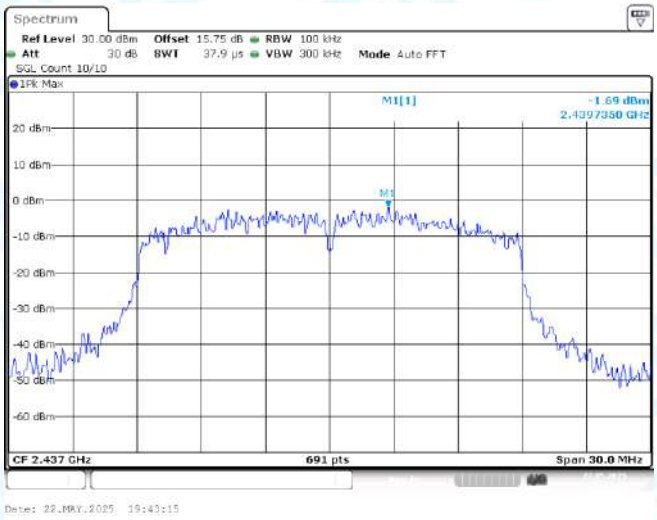


11N20MIMO-Ant1-2437-0~Reference-PASS



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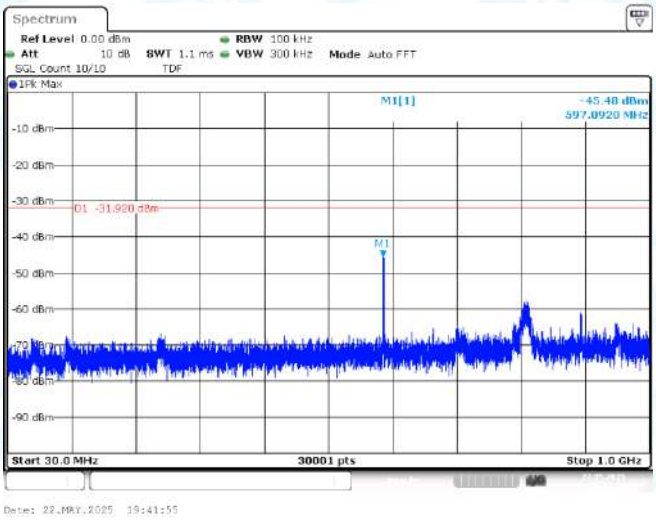

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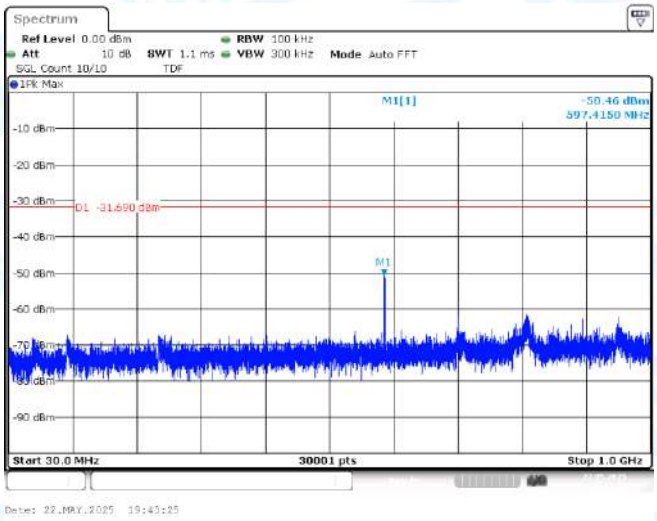

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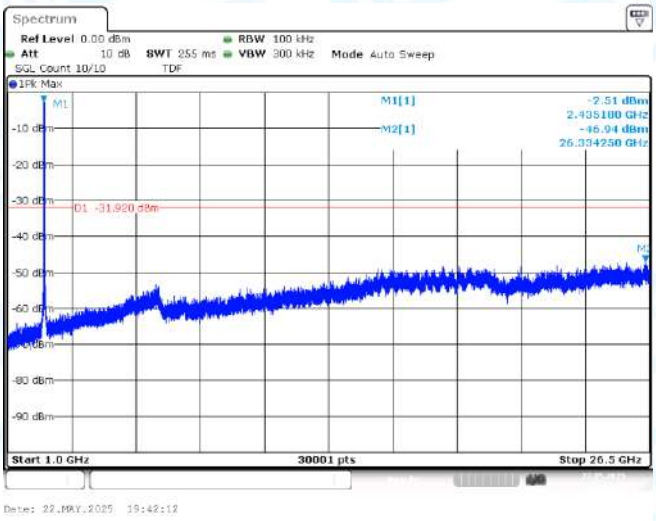

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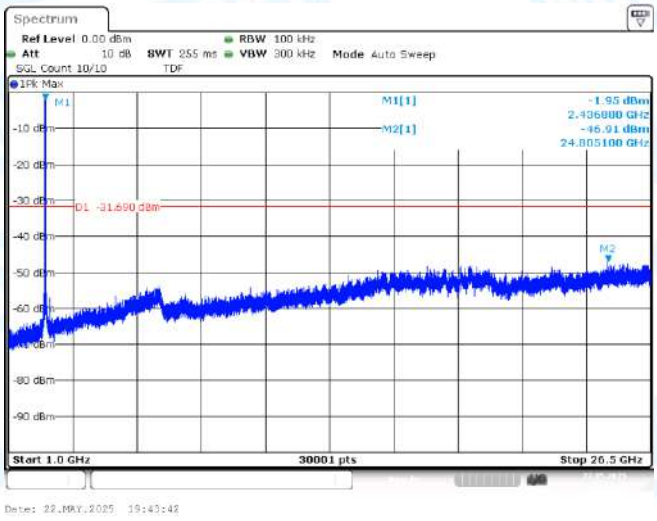

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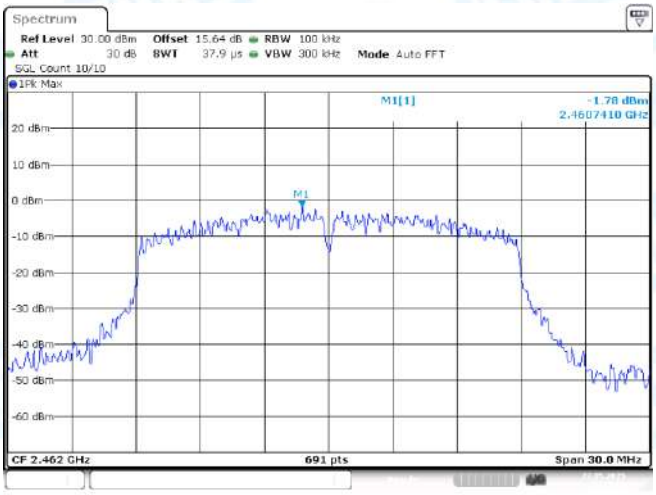

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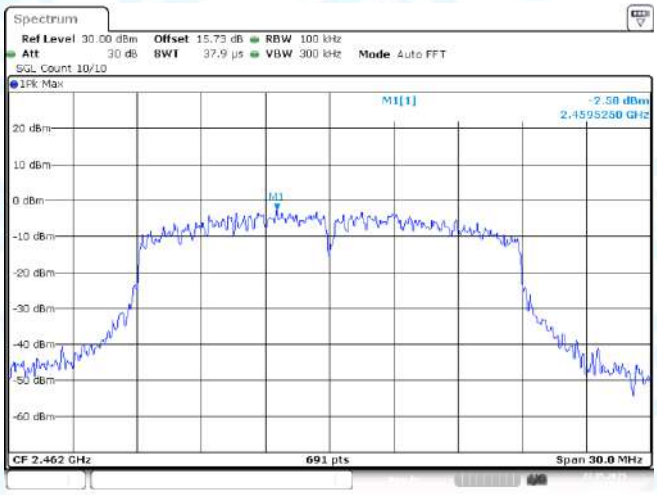

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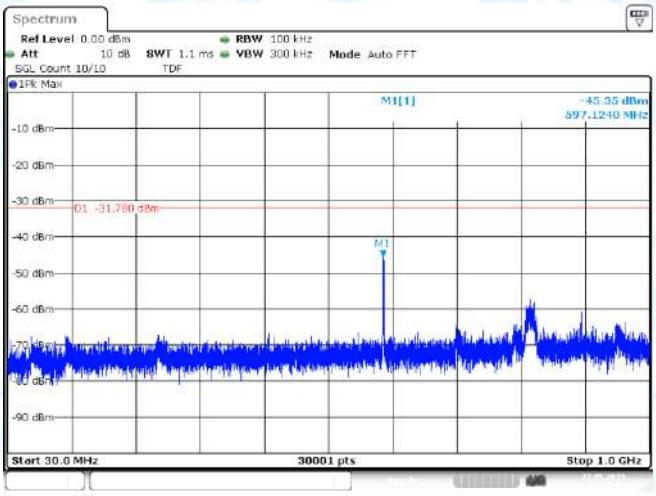

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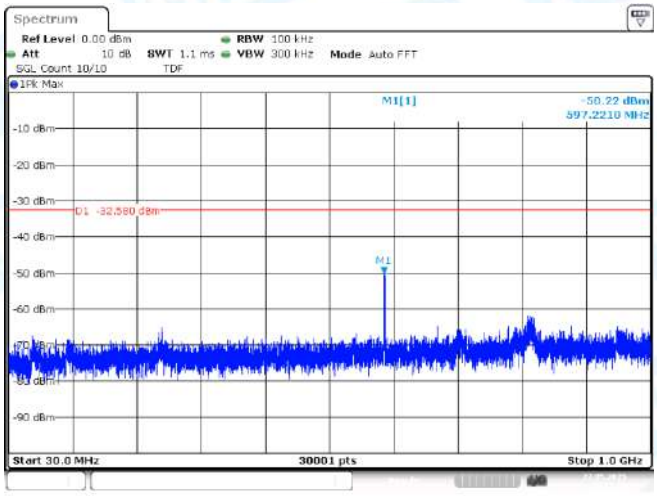

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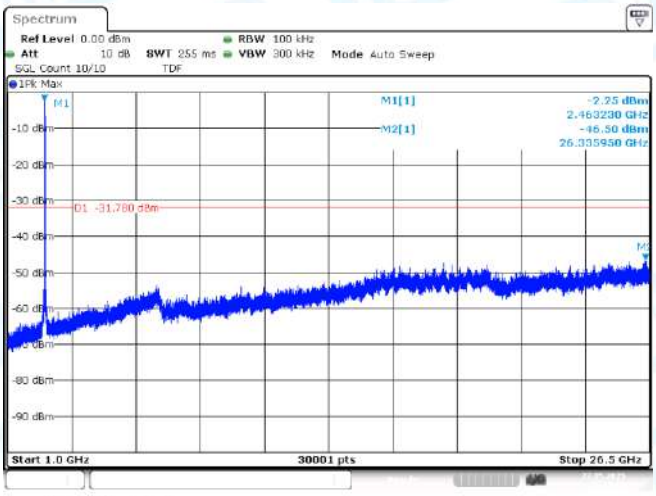
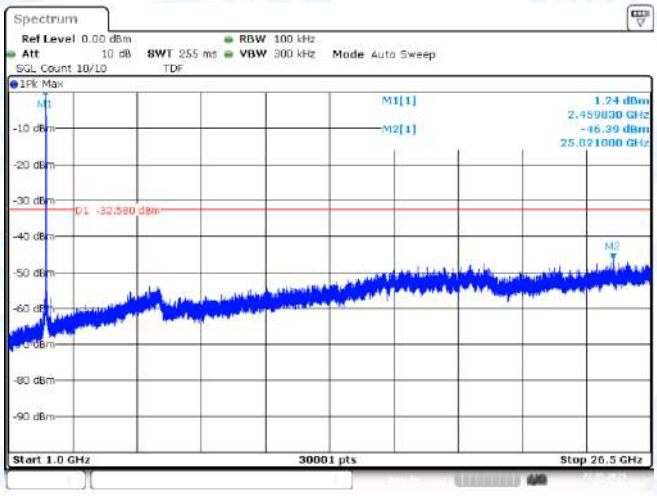


11N20MIMO-Ant1-2462-1000~26500-PASS



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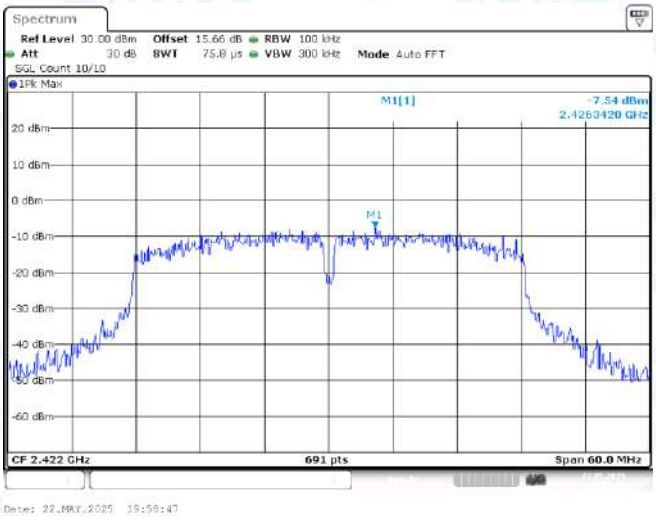

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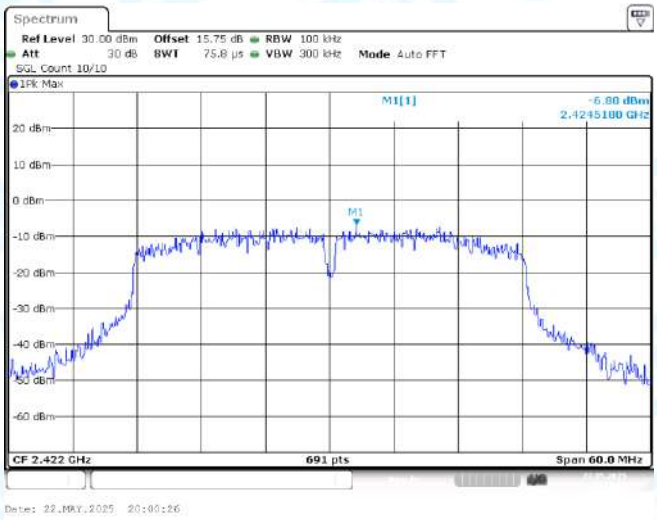

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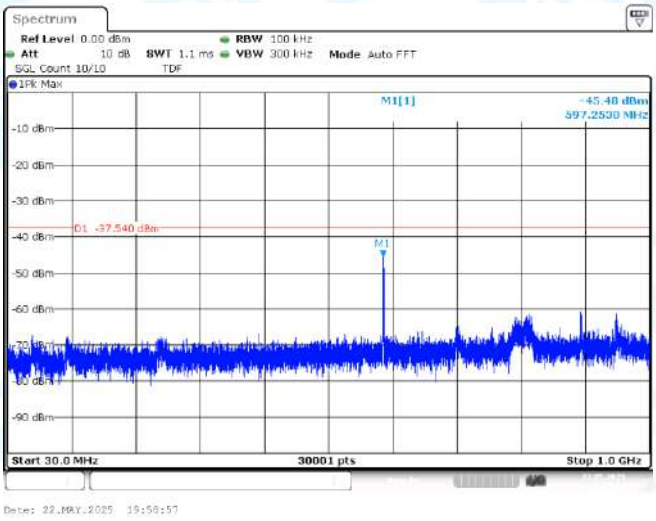

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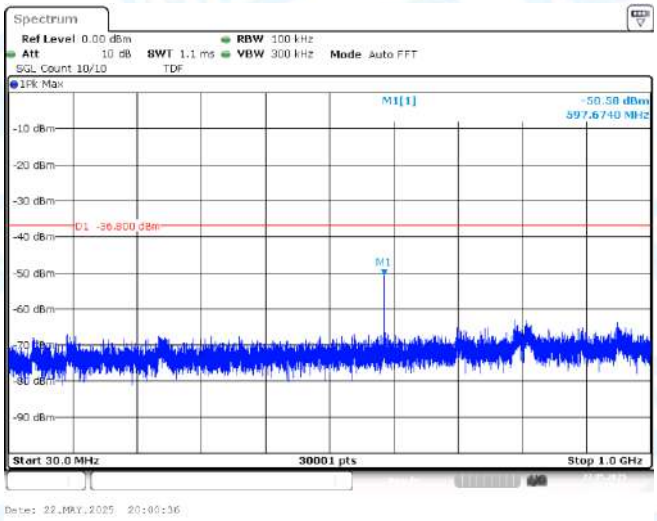
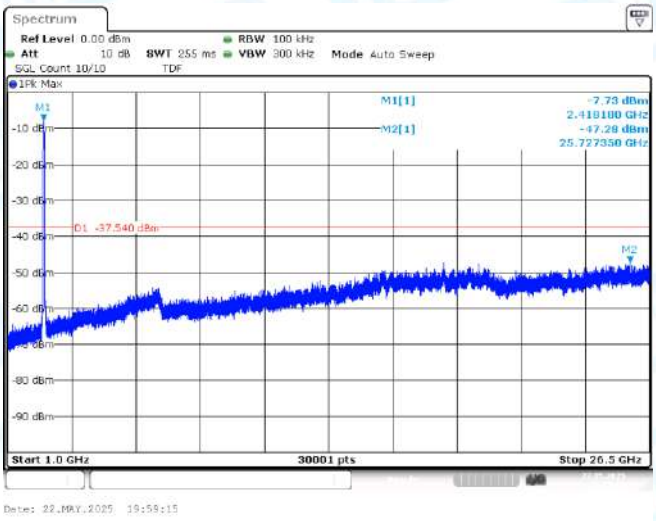
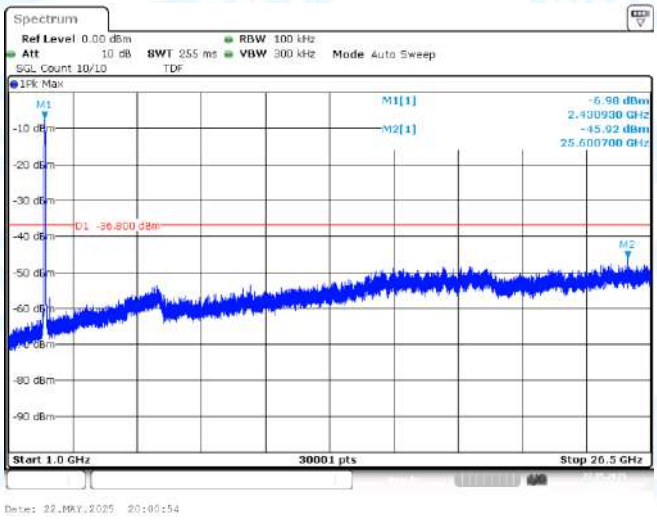


11N40MIMO-Ant2-2422-30~1000-PASS



11N40MIMO-Ant1-2422-1000~26500-PASS



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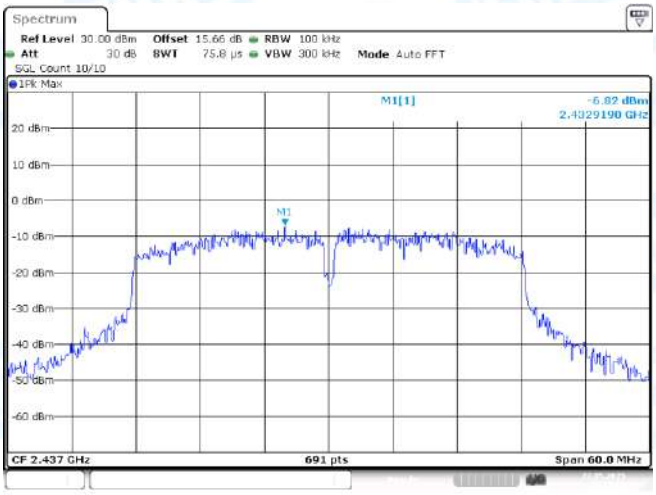

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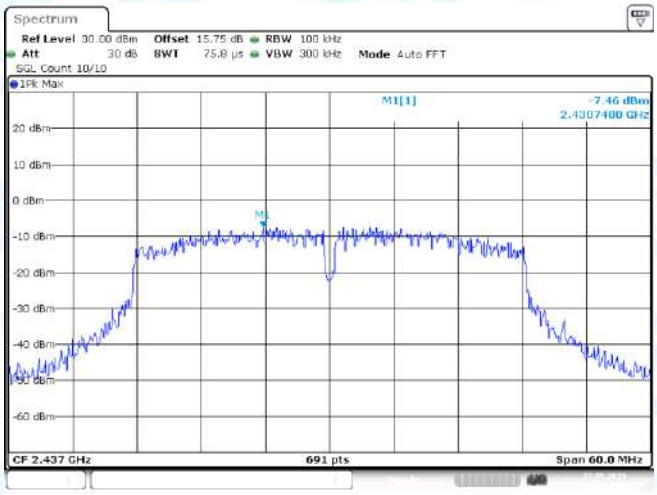

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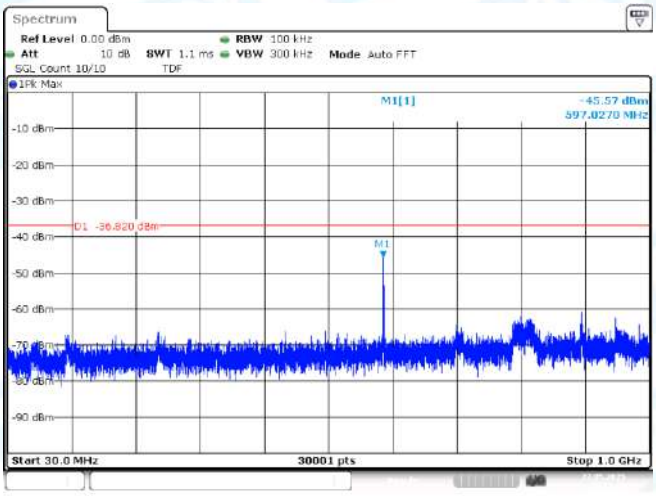

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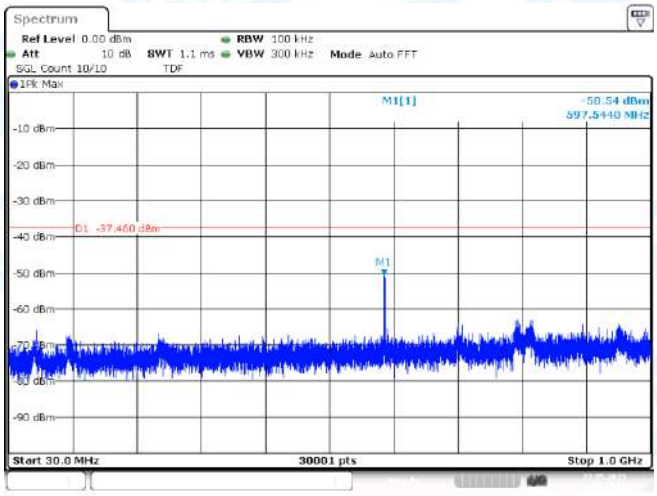

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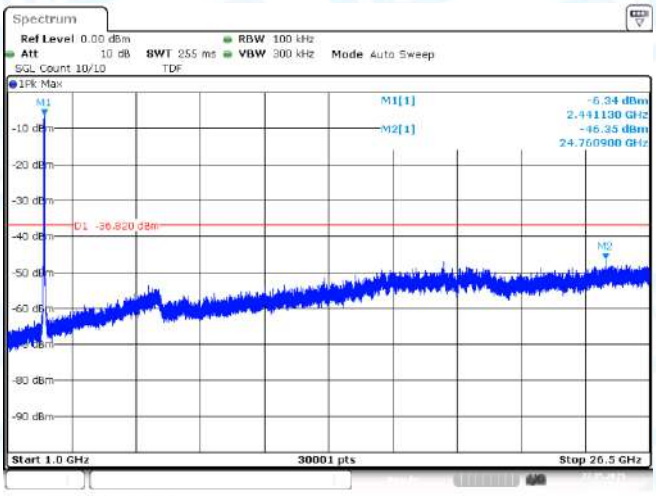
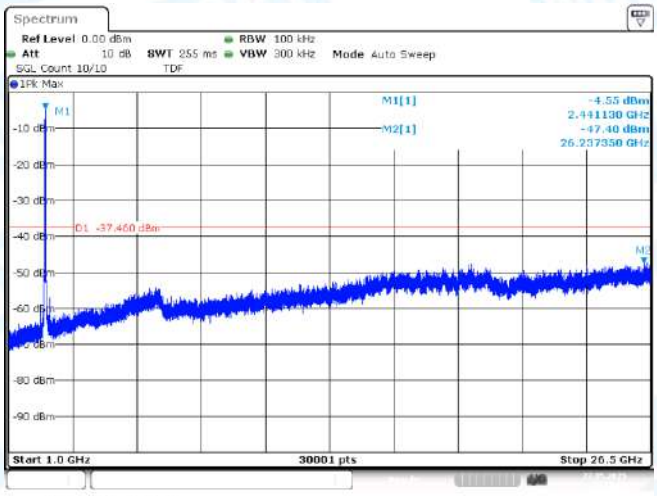


11N40MIMO-Ant1-2437-1000~26500-PASS



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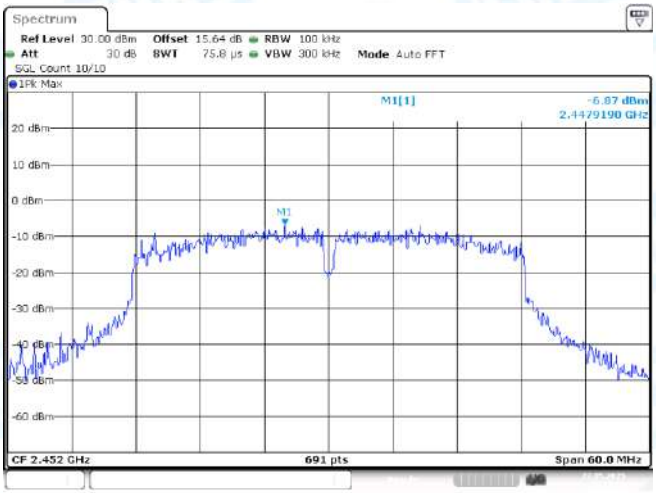
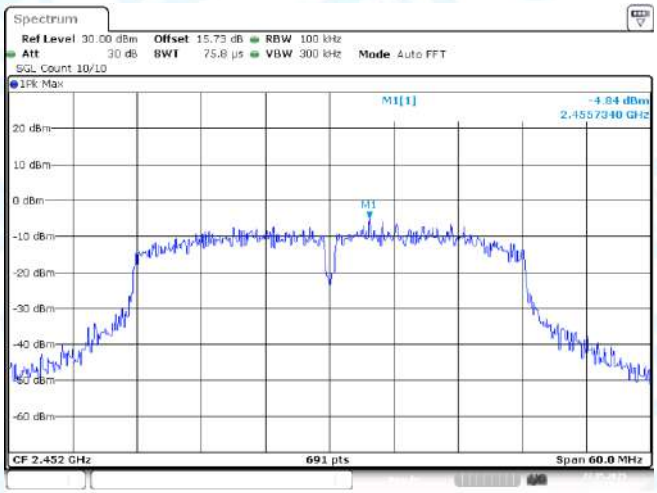


11N40MIMO-Ant1-2452-0~Reference-PASS



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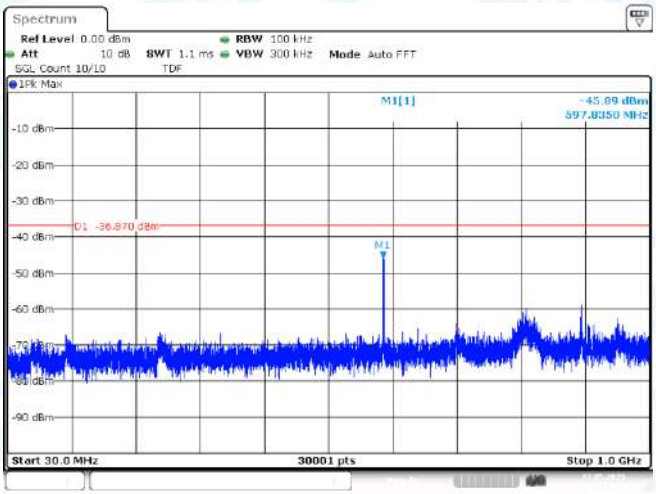

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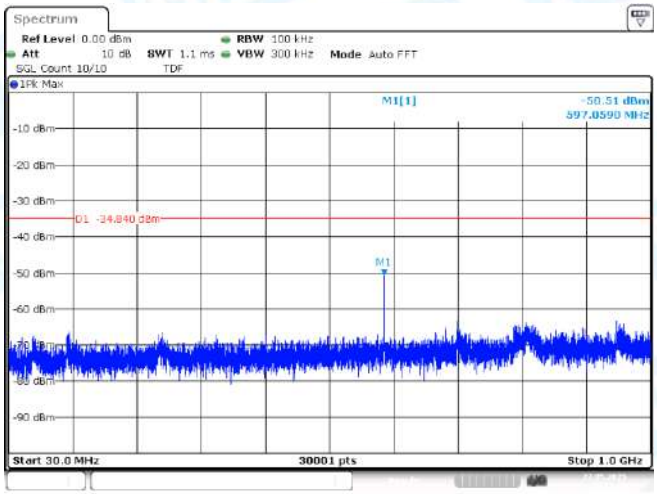

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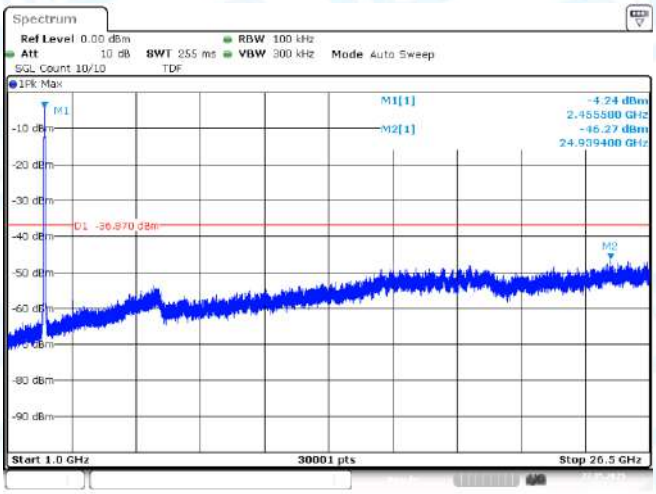

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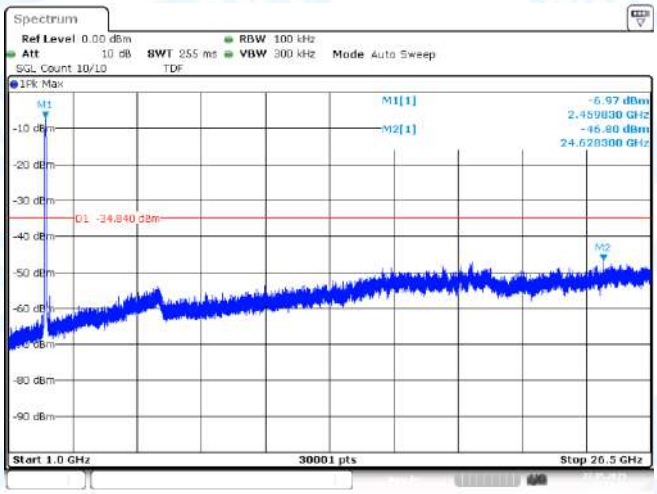


11N40MIMO-Ant2-2452-1000~26500-PASS

7: Duty Cycle

7.1 Test Result

TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11B-CDD	Ant1	2412	16.00	16.00	100.00	0.00	0.06
11B-CDD	Ant2	2412	16.00	16.00	100.00	0.00	0.06
11B-CDD	Ant1	2437	6.00	6.00	100.00	0.00	0.17
11B-CDD	Ant2	2437	1.00	1.00	100.00	0.00	1.00
11B-CDD	Ant1	2462	12.19	12.24	99.59	0.02	0.08
11B-CDD	Ant2	2462	12.20	12.24	99.67	0.01	0.08
11G-CDD	Ant1	2412	2.03	2.07	98.07	0.08	0.49
11G-CDD	Ant2	2412	2.02	2.07	97.58	0.11	0.50
11G-CDD	Ant1	2437	2.03	2.08	97.60	0.11	0.49
11G-CDD	Ant2	2437	2.02	2.07	97.58	0.11	0.50
11G-CDD	Ant1	2462	2.02	2.07	97.58	0.11	0.50
11G-CDD	Ant2	2462	2.02	2.07	97.58	0.11	0.50
11N20MIMO	Ant1	2412	1.89	1.94	97.42	0.11	0.53
11N20MIMO	Ant2	2412	1.89	1.94	97.42	0.11	0.53
11N20MIMO	Ant1	2437	1.89	1.94	97.42	0.11	0.53
11N20MIMO	Ant2	2437	1.89	1.94	97.42	0.11	0.53
11N20MIMO	Ant1	2462	1.88	1.94	96.91	0.14	0.53
11N20MIMO	Ant2	2462	1.89	1.94	97.42	0.11	0.53
11N40MIMO	Ant1	2422	0.93	0.97	95.88	0.18	1.08
11N40MIMO	Ant2	2422	0.93	0.97	95.88	0.18	1.08
11N40MIMO	Ant1	2437	0.93	0.96	96.88	0.14	1.08
11N40MIMO	Ant2	2437	0.93	0.97	95.88	0.18	1.08
11N40MIMO	Ant1	2452	0.92	0.96	95.83	0.18	1.09
11N40MIMO	Ant2	2452	0.93	0.97	95.88	0.18	1.08

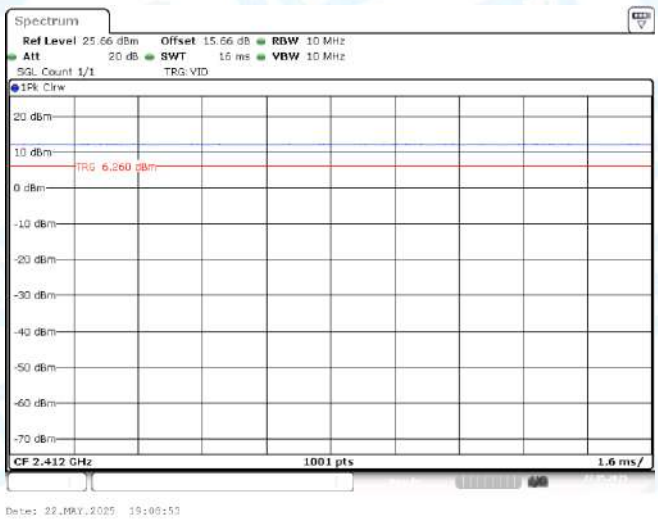
Note: 1, Duty Cycle= Transmission Duration/ Transmission Period

2, DC Factory=10*Log_{10}(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

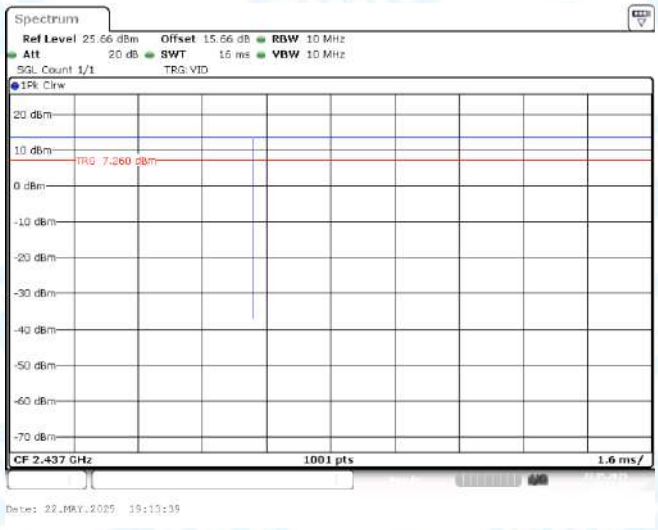
4, RF Conducted test Offset= cable loss+ Attenuator(10dB).

7.2 Test Graphs

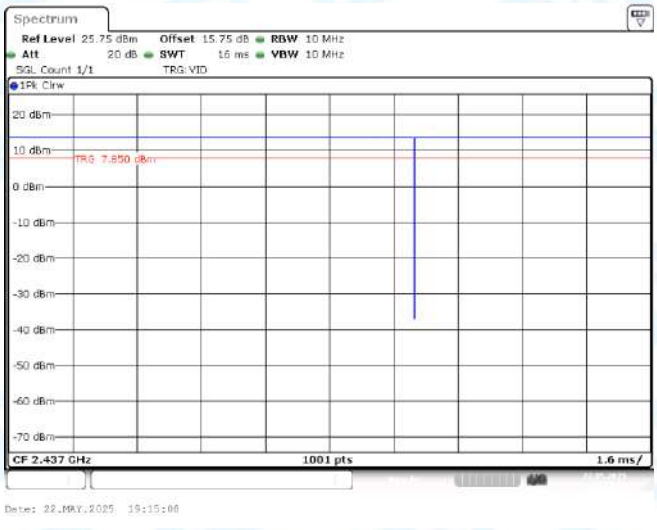


NTNV-11B-CDD-Ant1-2412

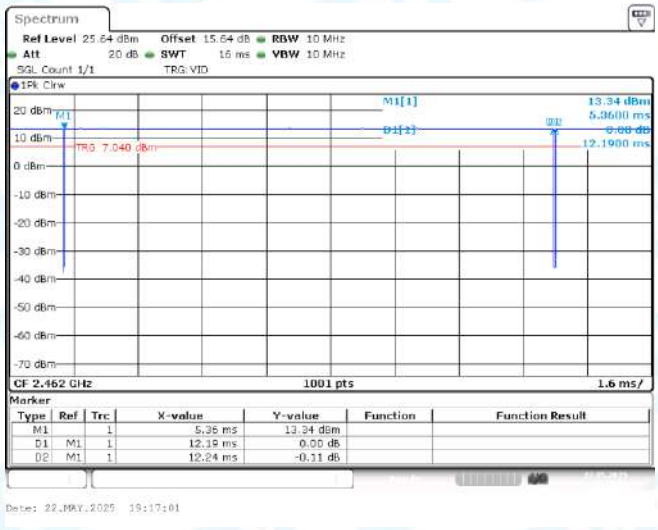
NTNV-11B-CDD-Ant2-2412



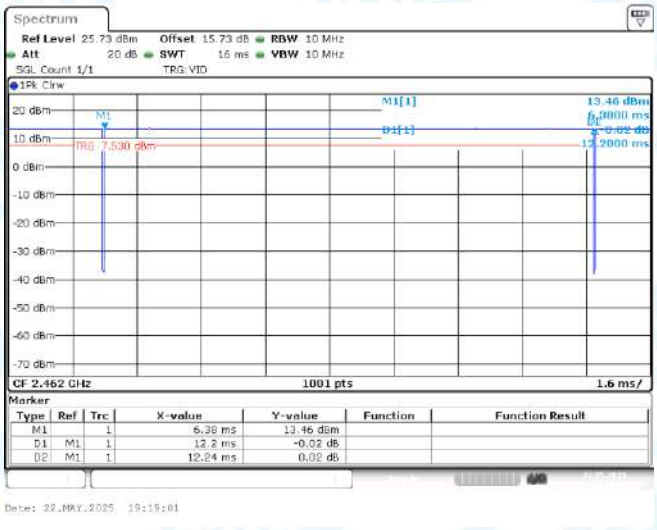
NTNV-11B-CDD-Ant1-2437



NTNV-11B-CDD-Ant2-2437



NTNV-11B-CDD-Ant1-2462



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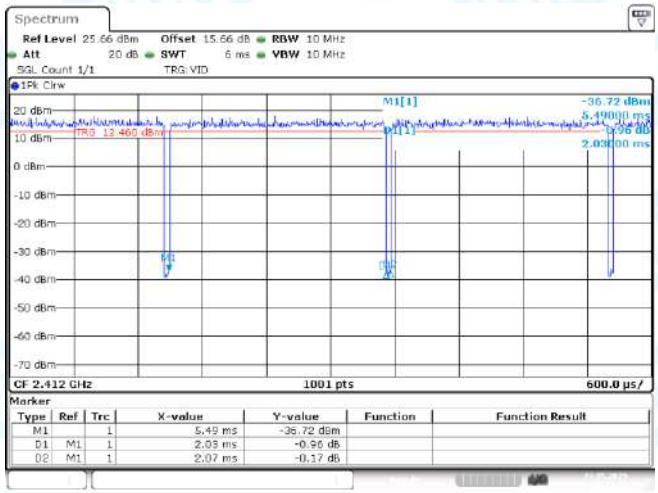

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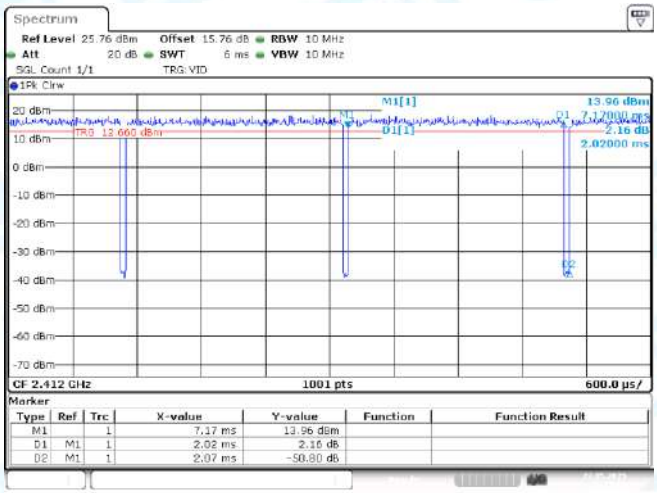

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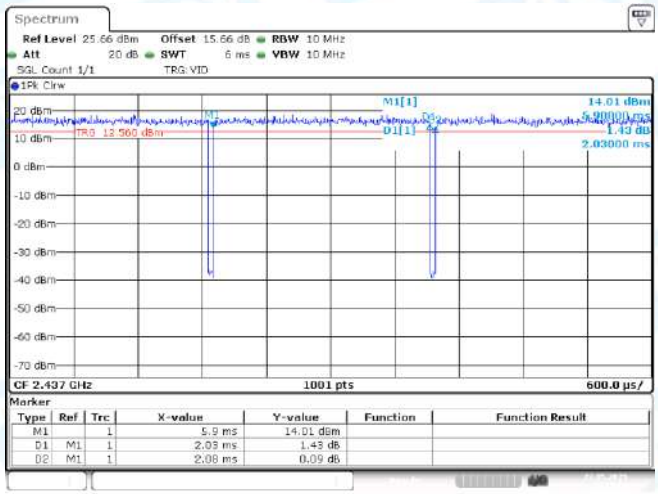

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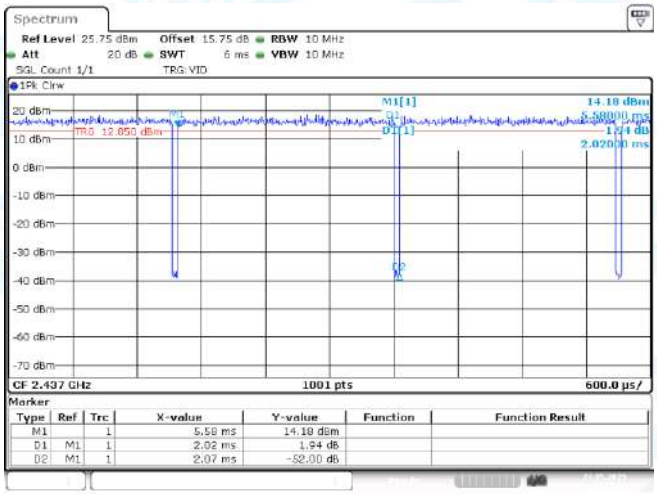

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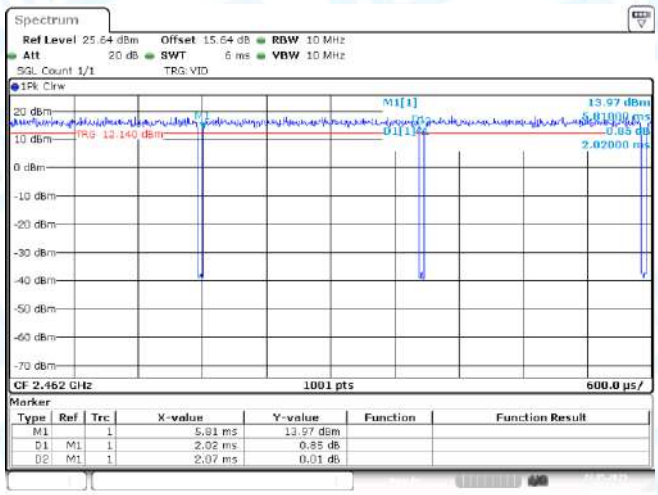

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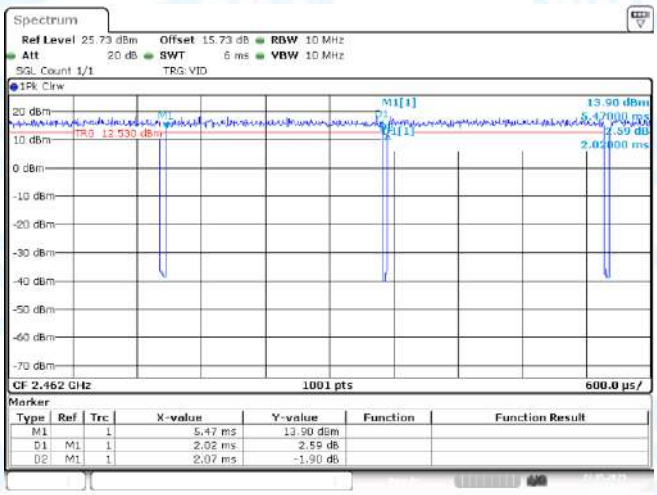

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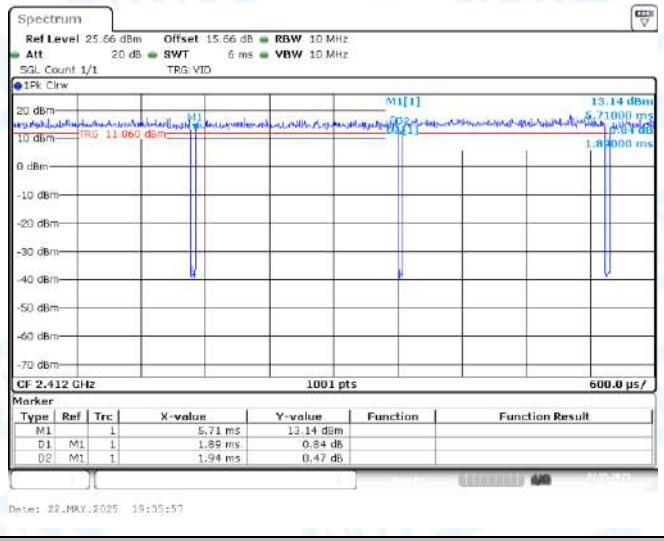
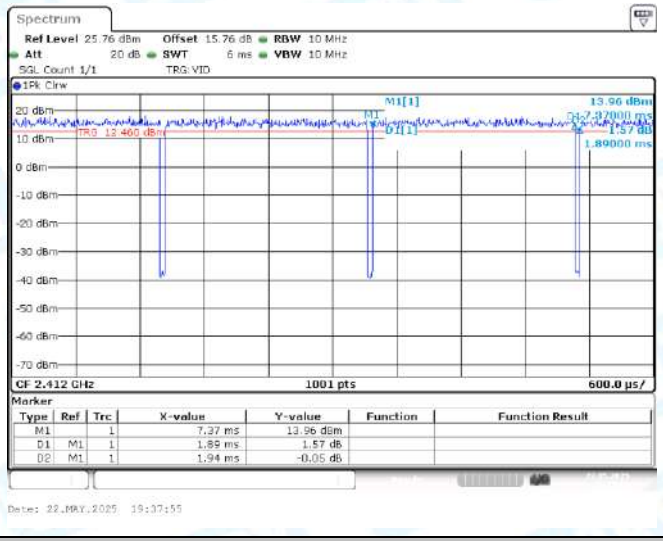


NTNV-11N20MIMO-Ant1-2412



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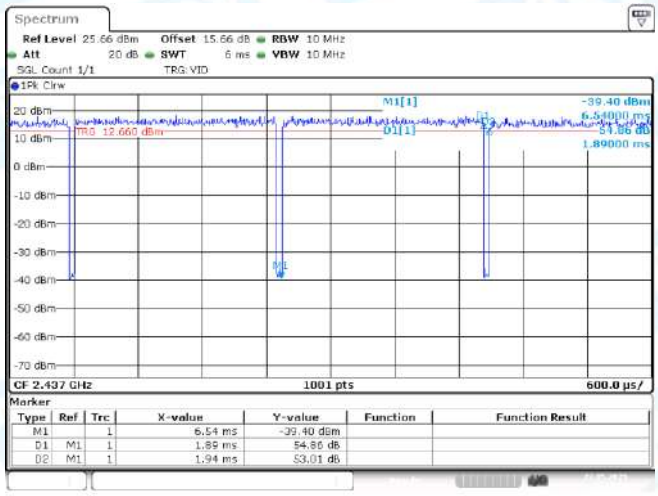

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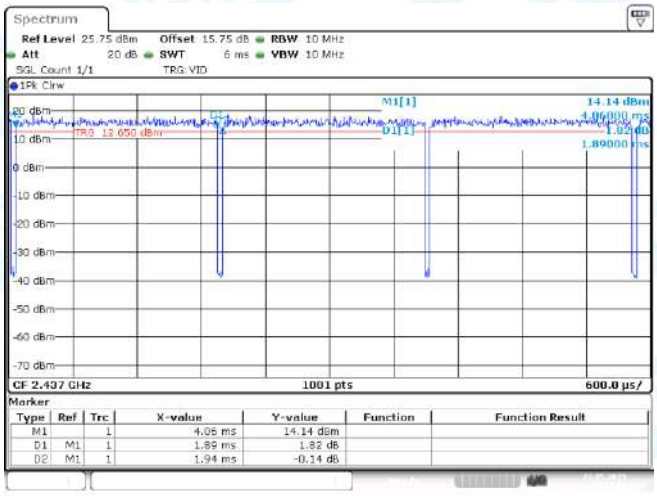

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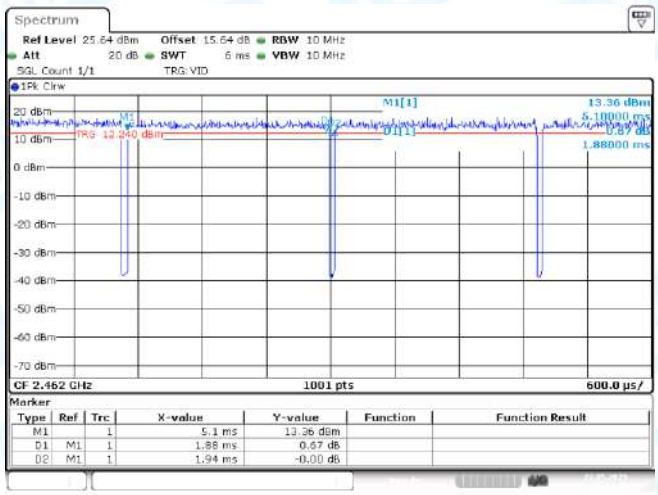

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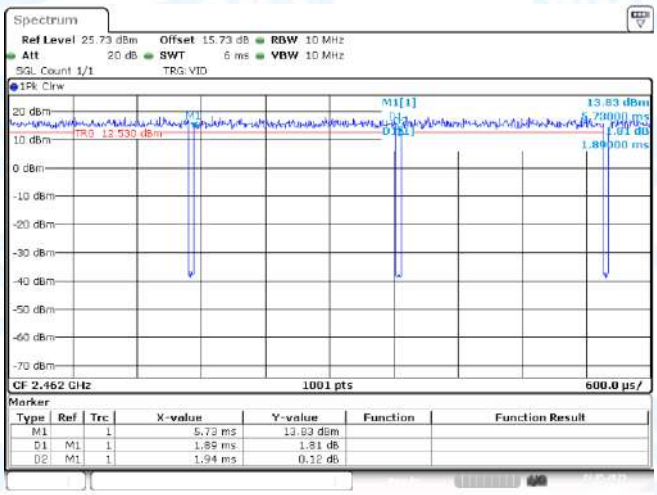

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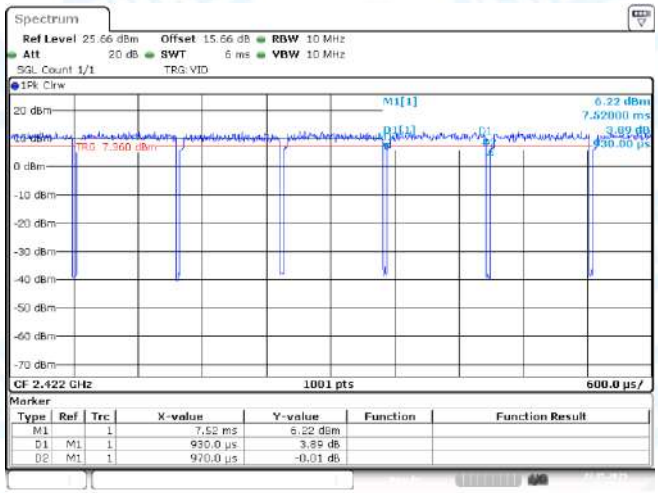
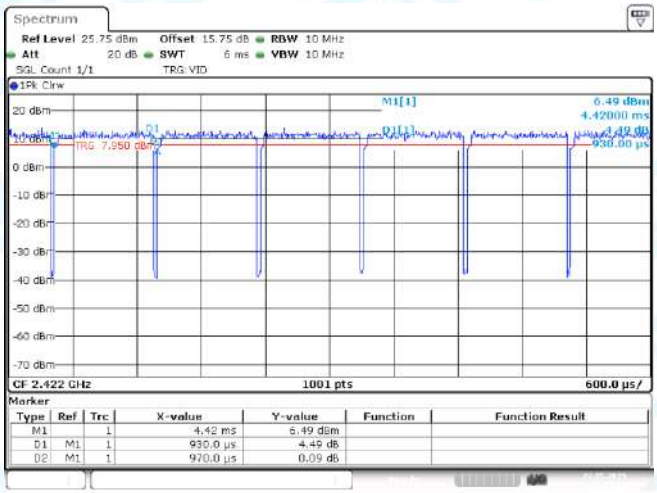
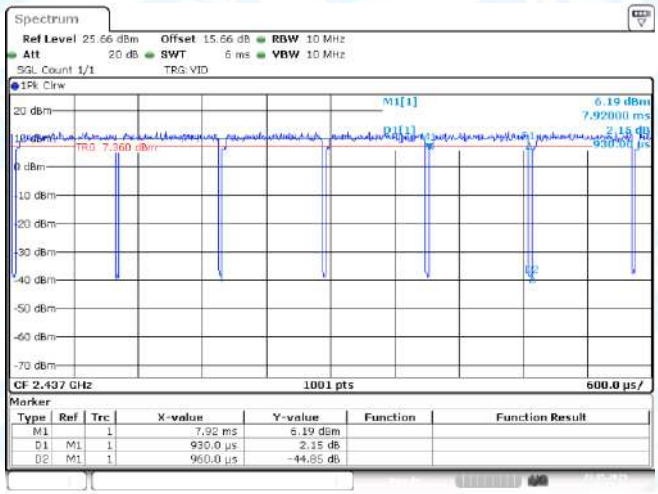


NTNV-11N40MIMO-Ant1-2422



NTNV-11N40MIMO-Ant2-2422



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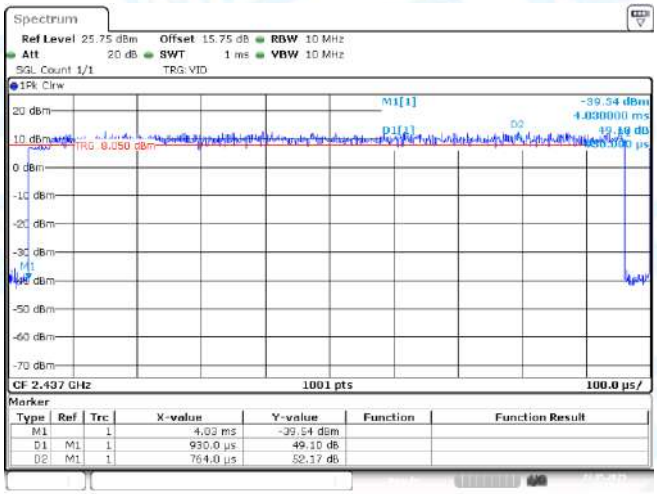
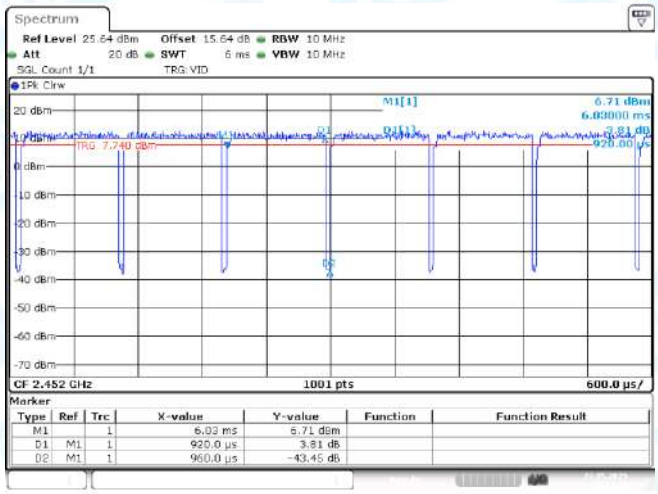
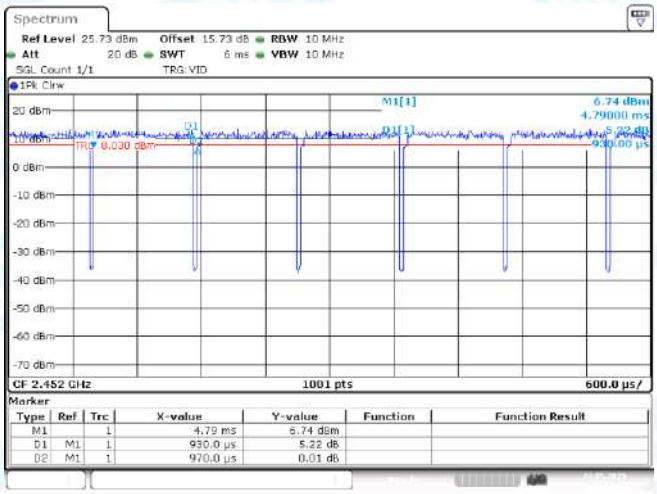


NTNV-11N40MIMO-Ant2-2437



NTNV-11N40MIMO-Ant1-2452



NTNV-11N40MIMO-Ant2-2452

8: Emissions in Restricted Bands

8.1 Test Result

TestMode	Ant.	ChName	Freq. [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11B-CDD	Ant1	Low	2412	Peak	2390.000	-45.07	≤-21.20	50.13	≤74	PASS
11B-CDD	Ant1	Low	2412	Peak	2310.000	-44.5	≤-21.20	50.70	≤74	PASS
11B-CDD	Ant1	Low	2412	Peak	2341.072	-40.98	≤-21.20	54.22	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2390.000	-44.14	≤-21.20	51.06	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2310.000	-44.83	≤-21.20	50.37	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2341.638	-40.95	≤-21.20	54.25	≤74	PASS
11B-CDD	total	Low	2412	Peak	2390.000	-41.57	≤-21.20	53.63	≤74	PASS
11B-CDD	total	Low	2412	Peak	2310.000	-41.65	≤-21.20	53.55	≤74	PASS
11B-CDD	total	Low	2412	Peak	2341.638	-37.95	≤-21.20	57.25	≤74	PASS
11B-CDD	Ant1	Low	2412	AV	2390.000	-51.86	≤-41.20	43.34	≤54	PASS
11B-CDD	Ant1	Low	2412	AV	2310.000	-51.68	≤-41.20	43.52	≤54	PASS
11B-CDD	Ant1	Low	2412	AV	2340.130	-49.18	≤-41.20	46.02	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2390.000	-51.36	≤-41.20	43.84	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2310.000	-52.1	≤-41.20	43.10	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2340.507	-49.23	≤-41.20	45.97	≤54	PASS
11B-CDD	total	Low	2412	AV	2390.000	-48.59	≤-41.20	46.61	≤54	PASS
11B-CDD	total	Low	2412	AV	2310.000	-48.87	≤-41.20	46.33	≤54	PASS
11B-CDD	total	Low	2412	AV	2340.507	-46.19	≤-41.20	49.01	≤54	PASS
11B-CDD	Ant1	High	2462	Peak	2483.500	-41.44	≤-21.20	53.76	≤74	PASS
11B-CDD	Ant1	High	2462	Peak	2500.000	-42.52	≤-21.20	52.68	≤74	PASS
11B-CDD	Ant1	High	2462	Peak	2483.522	-41.44	≤-21.20	53.76	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2483.500	-43.53	≤-21.20	51.67	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2500.000	-42.56	≤-21.20	52.64	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2484.159	-41.27	≤-21.20	53.93	≤74	PASS
11B-CDD	total	High	2462	Peak	2483.500	-39.35	≤-21.20	55.85	≤74	PASS
11B-CDD	total	High	2462	Peak	2500.000	-39.53	≤-21.20	55.67	≤74	PASS
11B-CDD	total	High	2462	Peak	2484.159	-38.34	≤-21.20	56.86	≤74	PASS
11B-CDD	Ant1	High	2462	AV	2483.500	-50.16	≤-41.20	45.04	≤54	PASS
11B-CDD	Ant1	High	2462	AV	2500.000	-49.38	≤-41.20	45.82	≤54	PASS
11B-CDD	Ant1	High	2462	AV	2499.942	-49.38	≤-41.20	45.82	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2483.500	-50.2	≤-41.20	45.00	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2500.000	-52.14	≤-41.20	43.06	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2484.319	-49.83	≤-41.20	45.37	≤54	PASS
11B-CDD	total	High	2462	AV	2483.500	-47.17	≤-41.20	48.03	≤54	PASS
11B-CDD	total	High	2462	AV	2500.000	-47.53	≤-41.20	47.67	≤54	PASS
11B-CDD	total	High	2462	AV	2484.319	-46.59	≤-41.20	48.61	≤54	PASS
11G-CDD	Ant1	Low	2412	Peak	2390.000	-36.26	≤-21.20	58.94	≤74	PASS
11G-CDD	Ant1	Low	2412	Peak	2310.000	-45.89	≤-21.20	49.31	≤74	PASS
11G-CDD	Ant1	Low	2412	Peak	2389.870	-36.55	≤-21.20	58.65	≤74	PASS
11G-CDD	Ant2	Low	2412	Peak	2390.000	-38.77	≤-21.20	56.43	≤74	PASS

11G-CDD	Ant2	Low	2412	Peak	2310.000	-44.45	≤-21.20	50.75	≤74	PASS
11G-CDD	Ant2	Low	2412	Peak	2389.870	-39.86	≤-21.20	55.34	≤74	PASS
11G-CDD	total	Low	2412	Peak	2390.000	-34.33	≤-21.20	60.87	≤74	PASS
11G-CDD	total	Low	2412	Peak	2310.000	-42.10	≤-21.20	53.10	≤74	PASS
11G-CDD	total	Low	2412	Peak	2389.870	-34.89	≤-21.20	60.31	≤74	PASS
11G-CDD	Ant1	Low	2412	AV	2390.000	-47.55	≤-41.20	47.65	≤54	PASS
11G-CDD	Ant1	Low	2412	AV	2310.000	-52.33	≤-41.20	42.87	≤54	PASS
11G-CDD	Ant1	Low	2412	AV	2365.754	-47.37	≤-41.20	47.83	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2390.000	-48.6	≤-41.20	46.60	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2310.000	-51.7	≤-41.20	43.50	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2369.522	-48.36	≤-41.20	46.84	≤54	PASS
11G-CDD	total	Low	2412	AV	2390.000	-45.03	≤-41.20	50.17	≤54	PASS
11G-CDD	total	Low	2412	AV	2310.000	-48.99	≤-41.20	46.21	≤54	PASS
11G-CDD	total	Low	2412	AV	2369.522	-44.83	≤-41.20	50.37	≤54	PASS
11G-CDD	Ant1	High	2462	Peak	2483.500	-41.56	≤-21.20	53.64	≤74	PASS
11G-CDD	Ant1	High	2462	Peak	2500.000	-42.44	≤-21.20	52.76	≤74	PASS
11G-CDD	Ant1	High	2462	Peak	2498.029	-40.55	≤-21.20	54.65	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2483.500	-41.52	≤-21.20	53.68	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2500.000	-43.17	≤-21.20	52.03	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2484.159	-40.13	≤-21.20	55.07	≤74	PASS
11G-CDD	total	High	2462	Peak	2483.500	-38.53	≤-21.20	56.67	≤74	PASS
11G-CDD	total	High	2462	Peak	2500.000	-39.78	≤-21.20	55.42	≤74	PASS
11G-CDD	total	High	2462	Peak	2484.159	-37.32	≤-21.20	57.88	≤74	PASS
11G-CDD	Ant1	High	2462	AV	2483.500	-48.7	≤-41.20	46.50	≤54	PASS
11G-CDD	Ant1	High	2462	AV	2500.000	-48.98	≤-41.20	46.22	≤54	PASS
11G-CDD	Ant1	High	2462	AV	2483.522	-48.7	≤-41.20	46.50	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2483.500	-48.2	≤-41.20	47.00	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2500.000	-49.7	≤-41.20	45.50	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2483.522	-48.2	≤-41.20	47.00	≤54	PASS
11G-CDD	total	High	2462	AV	2483.500	-45.43	≤-41.20	49.77	≤54	PASS
11G-CDD	total	High	2462	AV	2500.000	-46.31	≤-41.20	48.89	≤54	PASS
11G-CDD	total	High	2462	AV	2483.522	-45.43	≤-41.20	49.77	≤54	PASS
11N20MIMO	Ant1	Low	2412	Peak	2390.000	-39.39	≤-21.20	55.81	≤74	PASS
11N20MIMO	Ant1	Low	2412	Peak	2310.000	-45.57	≤-21.20	49.63	≤74	PASS
11N20MIMO	Ant1	Low	2412	Peak	2389.493	-39.08	≤-21.20	56.12	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2390.000	-41.75	≤-21.20	53.45	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2310.000	-43.26	≤-21.20	51.94	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2365.565	-40.39	≤-21.20	54.81	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2390.000	-37.40	≤-21.20	57.80	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2310.000	-41.25	≤-21.20	53.95	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2365.565	-36.68	≤-21.20	58.52	≤74	PASS
11N20MIMO	Ant1	Low	2412	AV	2390.000	-47.76	≤-41.20	47.44	≤54	PASS
11N20MIMO	Ant1	Low	2412	AV	2310.000	-52.27	≤-41.20	42.93	≤54	PASS
11N20MIMO	Ant1	Low	2412	AV	2389.870	-47.89	≤-41.20	47.31	≤54	PASS
11N20MIMO	Ant2	Low	2412	AV	2390.000	-48.25	≤-41.20	46.95	≤54	PASS

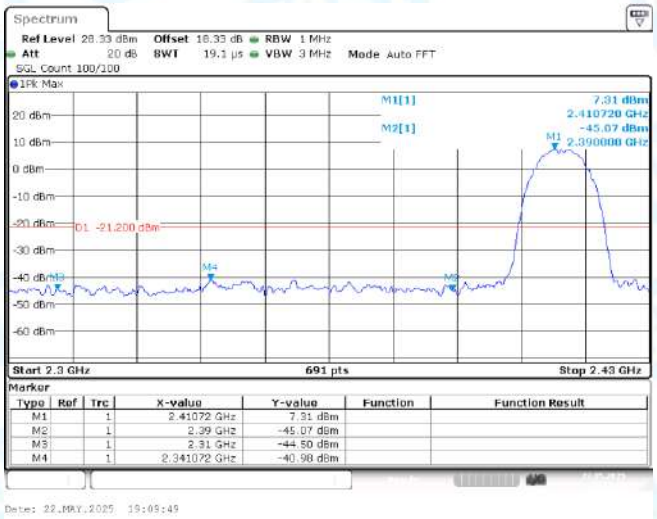
11N20MIMO	Ant2	Low	2412	AV	2310.000	-52.71	≤-41.20	42.49	≤54	PASS
11N20MIMO	Ant2	Low	2412	AV	2389.870	-48.25	≤-41.20	46.95	≤54	PASS
11N20MIMO	total	Low	2412	AV	2390.000	-44.99	≤-41.20	50.21	≤54	PASS
11N20MIMO	total	Low	2412	AV	2310.000	-49.47	≤-41.20	45.73	≤54	PASS
11N20MIMO	total	Low	2412	AV	2389.870	-45.06	≤-41.20	50.14	≤54	PASS
11N20MIMO	Ant1	High	2462	Peak	2483.500	-41.03	≤-21.20	54.17	≤74	PASS
11N20MIMO	Ant1	High	2462	Peak	2500.000	-42.06	≤-21.20	53.14	≤74	PASS
11N20MIMO	Ant1	High	2462	Peak	2499.304	-40.87	≤-21.20	54.33	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2483.500	-42.02	≤-21.20	53.18	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2500.000	-42.08	≤-21.20	53.12	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2483.841	-41.13	≤-21.20	54.07	≤74	PASS
11N20MIMO	total	High	2462	Peak	2483.500	-38.49	≤-21.20	56.71	≤74	PASS
11N20MIMO	total	High	2462	Peak	2500.000	-39.06	≤-21.20	56.14	≤74	PASS
11N20MIMO	total	High	2462	Peak	2483.841	-37.99	≤-21.20	57.21	≤74	PASS
11N20MIMO	Ant1	High	2462	AV	2483.500	-48.79	≤-41.20	46.41	≤54	PASS
11N20MIMO	Ant1	High	2462	AV	2500.000	-49.36	≤-41.20	45.84	≤54	PASS
11N20MIMO	Ant1	High	2462	AV	2483.522	-48.79	≤-41.20	46.41	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2483.500	-48.53	≤-41.20	46.67	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2500.000	-50.64	≤-41.20	44.56	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2483.522	-48.53	≤-41.20	46.67	≤54	PASS
11N20MIMO	total	High	2462	AV	2483.500	-45.65	≤-41.20	49.55	≤54	PASS
11N20MIMO	total	High	2462	AV	2500.000	-46.94	≤-41.20	48.26	≤54	PASS
11N20MIMO	total	High	2462	AV	2483.522	-45.65	≤-41.20	49.55	≤54	PASS
11N40MIMO	Ant1	Low	2422	Peak	2390.000	-37.43	≤-21.20	57.77	≤74	PASS
11N40MIMO	Ant1	Low	2422	Peak	2310.000	-45.52	≤-21.20	49.68	≤74	PASS
11N40MIMO	Ant1	Low	2422	Peak	2388.913	-37.03	≤-21.20	58.17	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2390.000	-36.56	≤-21.20	58.64	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2310.000	-44.85	≤-21.20	50.35	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2389.783	-36.45	≤-21.20	58.75	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2390.000	-33.96	≤-21.20	61.24	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2310.000	-42.16	≤-21.20	53.04	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2389.783	-33.72	≤-21.20	61.48	≤74	PASS
11N40MIMO	Ant1	Low	2422	AV	2390.000	-45.08	≤-41.20	50.12	≤54	PASS
11N40MIMO	Ant1	Low	2422	AV	2310.000	-51.65	≤-41.20	43.55	≤54	PASS
11N40MIMO	Ant1	Low	2422	AV	2389.783	-45.18	≤-41.20	50.02	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2390.000	-46.59	≤-41.20	48.61	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2310.000	-51.87	≤-41.20	43.33	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2389.783	-46.56	≤-41.20	48.64	≤54	PASS
11N40MIMO	total	Low	2422	AV	2390.000	-42.76	≤-41.20	52.44	≤54	PASS
11N40MIMO	total	Low	2422	AV	2310.000	-48.75	≤-41.20	46.45	≤54	PASS
11N40MIMO	total	Low	2422	AV	2389.783	-42.81	≤-41.20	52.39	≤54	PASS
11N40MIMO	Ant1	High	2452	Peak	2483.500	-37.57	≤-21.20	57.63	≤74	PASS
11N40MIMO	Ant1	High	2452	Peak	2500.000	-41.71	≤-21.20	53.49	≤74	PASS
11N40MIMO	Ant1	High	2452	Peak	2483.514	-37.57	≤-21.20	57.63	≤74	PASS
11N40MIMO	Ant2	High	2452	Peak	2483.500	-35.99	≤-21.20	59.21	≤74	PASS

11N40MIMO	Ant2	High	2452	Peak	2500.000	-43.44	≤-21.20	51.76	≤74	PASS
11N40MIMO	Ant2	High	2452	Peak	2483.696	-35.72	≤-21.20	59.48	≤74	PASS
11N40MIMO	total	High	2452	Peak	2483.500	-33.70	≤-21.20	61.50	≤74	PASS
11N40MIMO	total	High	2452	Peak	2500.000	-39.48	≤-21.20	55.72	≤74	PASS
11N40MIMO	total	High	2452	Peak	2483.696	-33.54	≤-21.20	61.66	≤74	PASS
11N40MIMO	Ant1	High	2452	AV	2483.500	-45.8	≤-41.20	49.40	≤54	PASS
11N40MIMO	Ant1	High	2452	AV	2500.000	-50.99	≤-41.20	44.21	≤54	PASS
11N40MIMO	Ant1	High	2452	AV	2483.514	-45.8	≤-41.20	49.40	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2483.500	-44.82	≤-41.20	50.38	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2500.000	-50.61	≤-41.20	44.59	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2483.514	-44.82	≤-41.20	50.38	≤54	PASS
11N40MIMO	total	High	2452	AV	2483.500	-42.27	≤-41.20	52.93	≤54	PASS
11N40MIMO	total	High	2452	AV	2500.000	-47.79	≤-41.20	47.41	≤54	PASS
11N40MIMO	total	High	2452	AV	2483.514	-42.27	≤-41.20	52.93	≤54	PASS

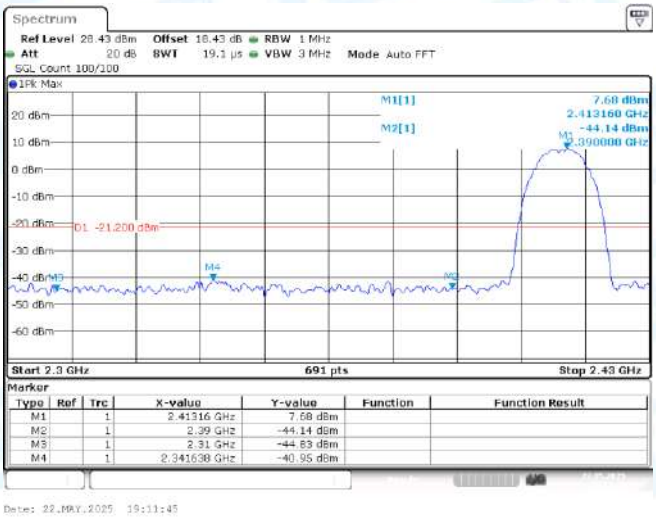
Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a) or RSS-Gen 8.10. The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.
3. RF Conducted test Offset= cable loss+ Attenuator(10dB).

8.2 Test Graphs



11B-CDD-Ant1-2412-PASS



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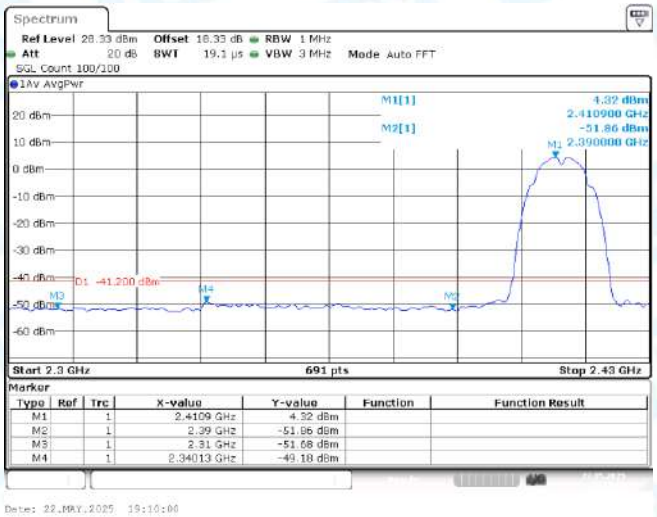

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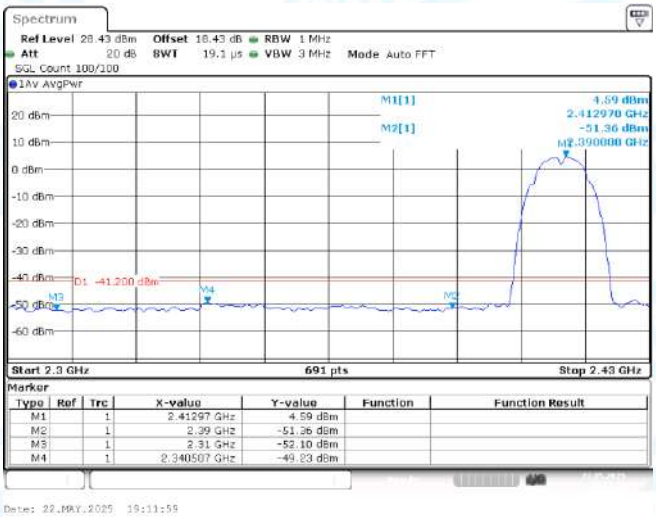

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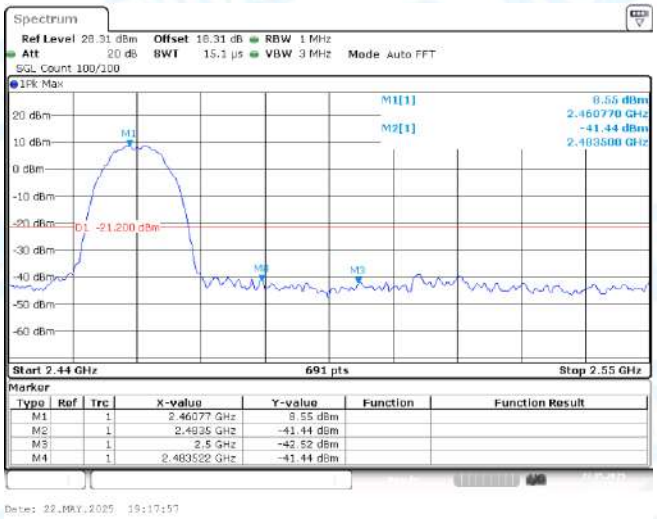

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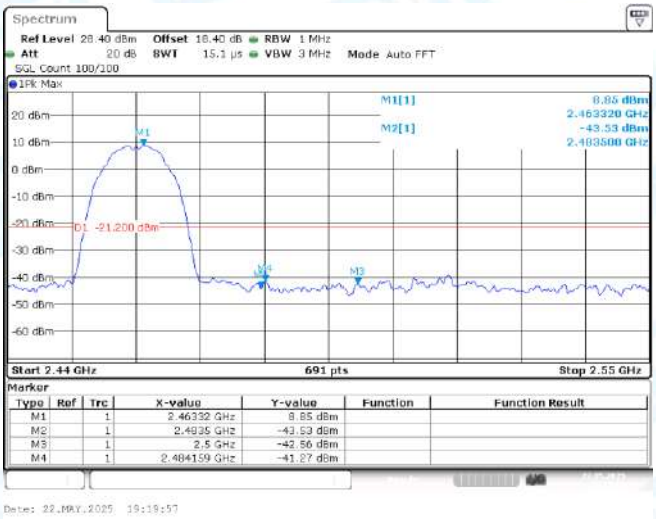

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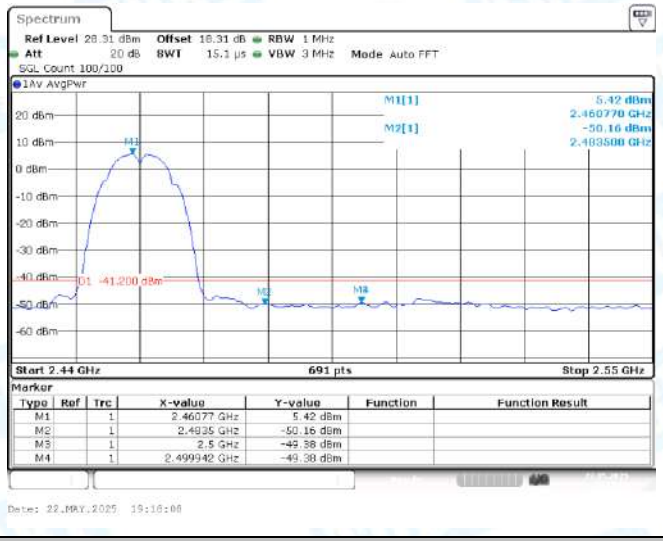

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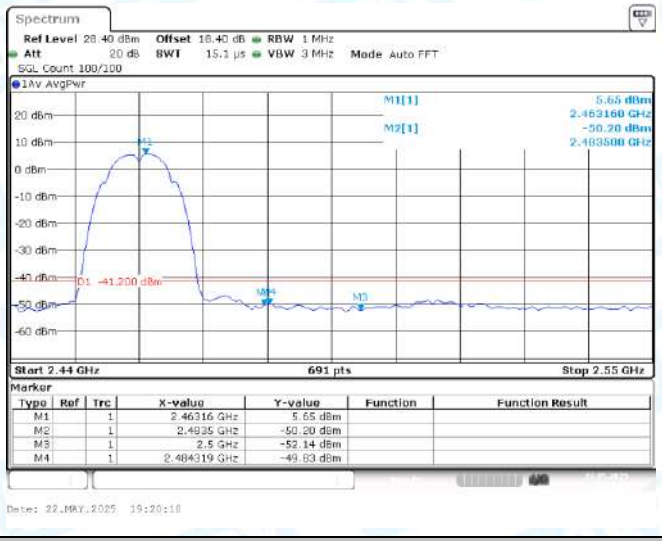

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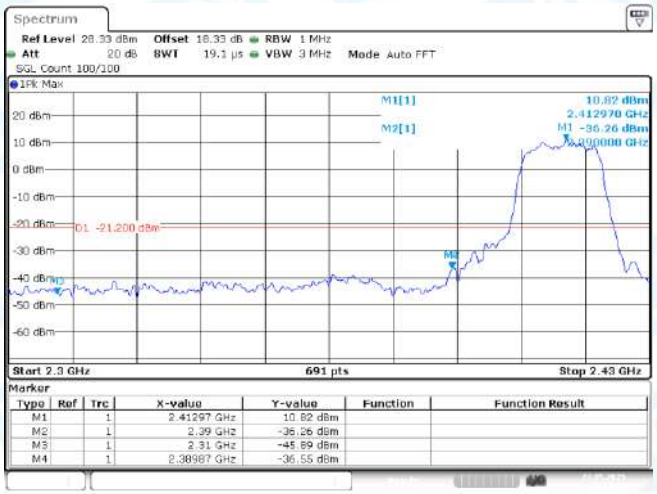

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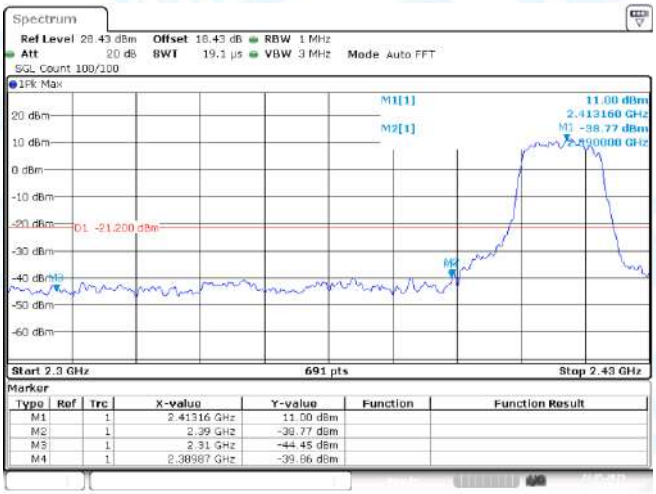

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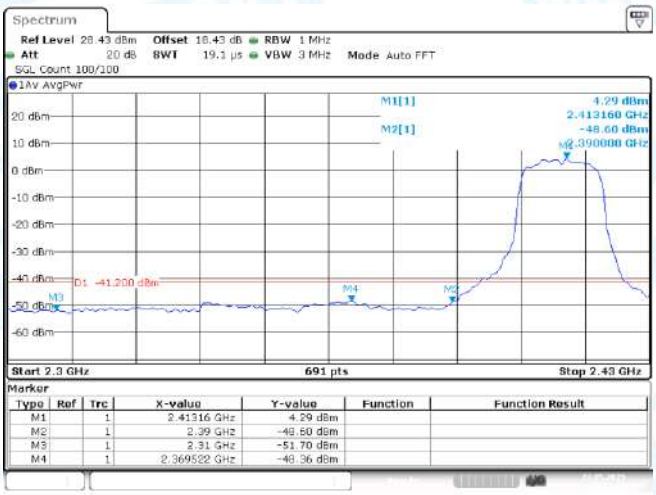
11G-CDD-Ant1-2412-PASS



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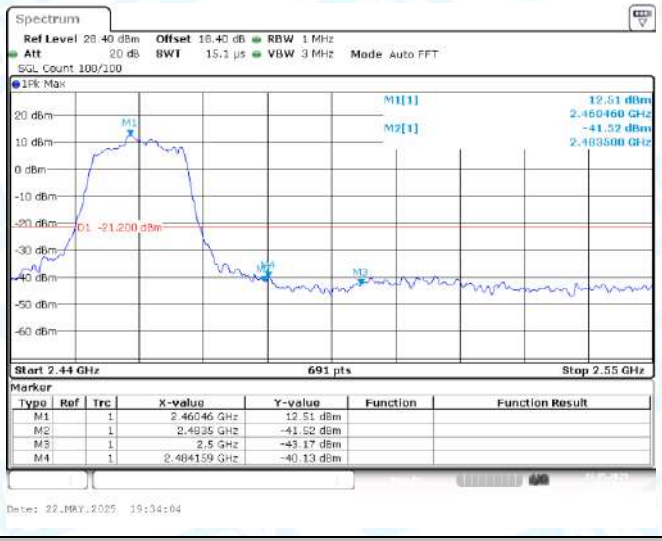

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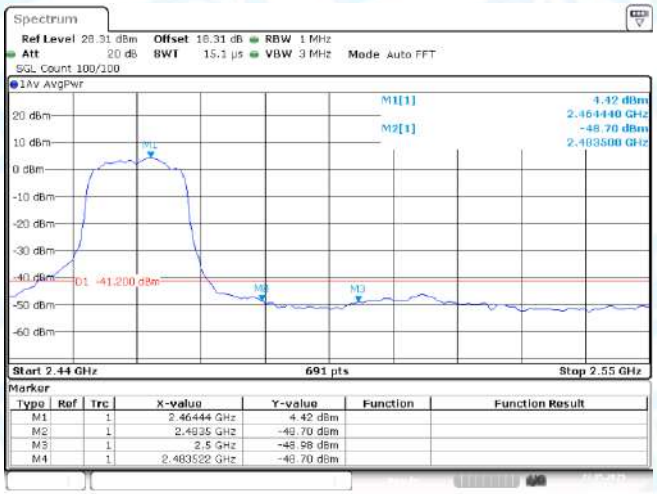

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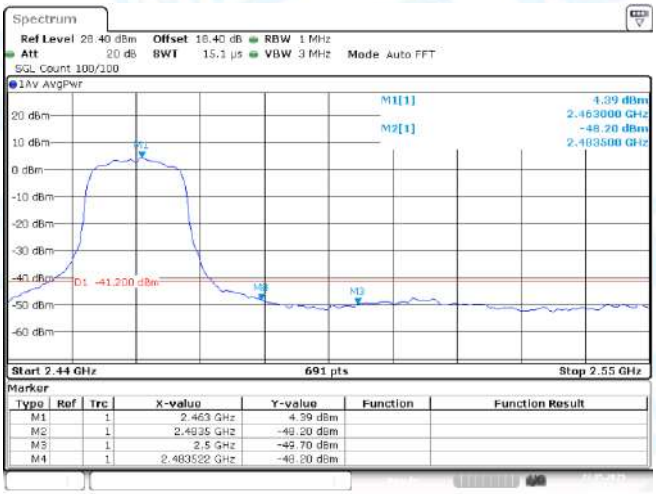

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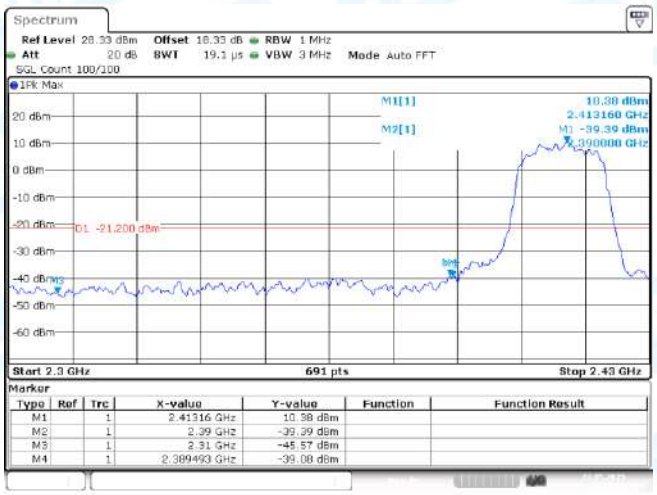

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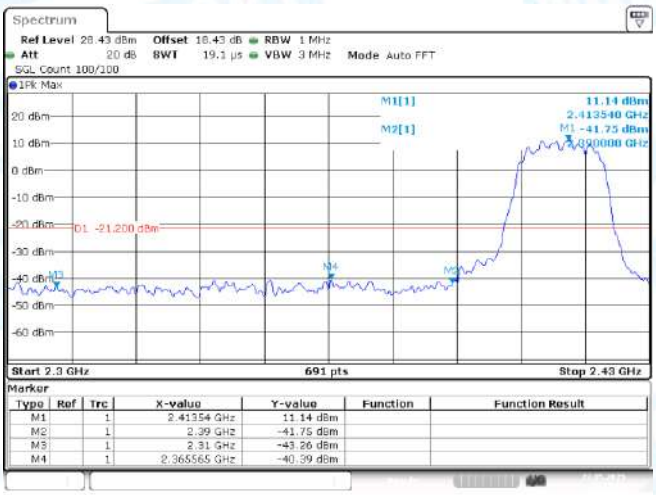

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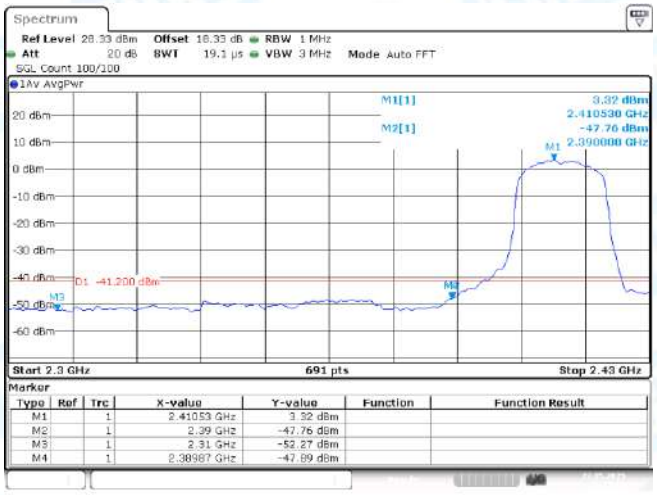

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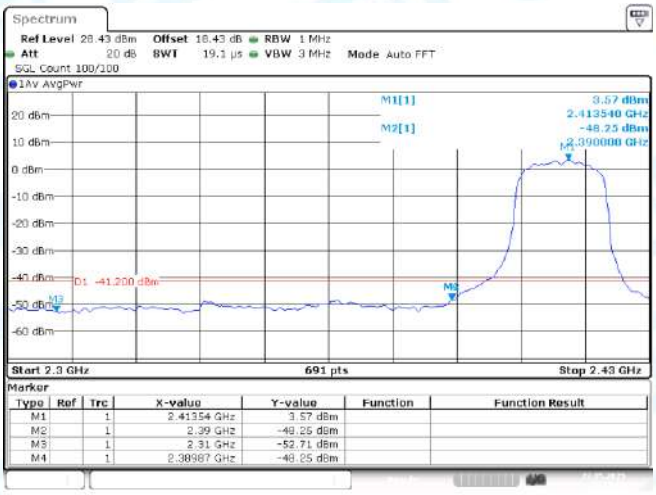

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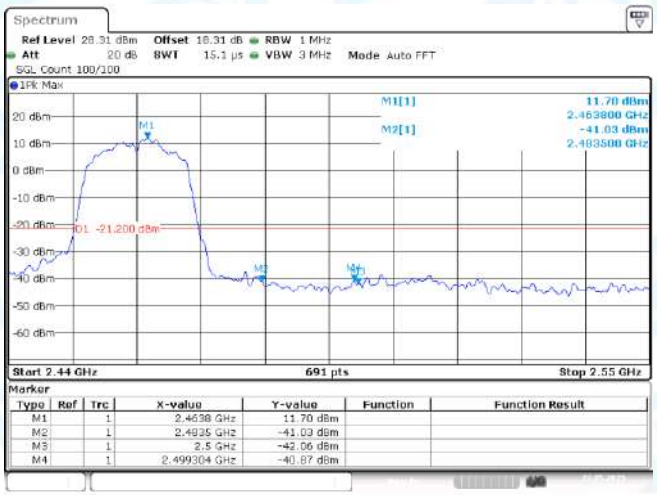

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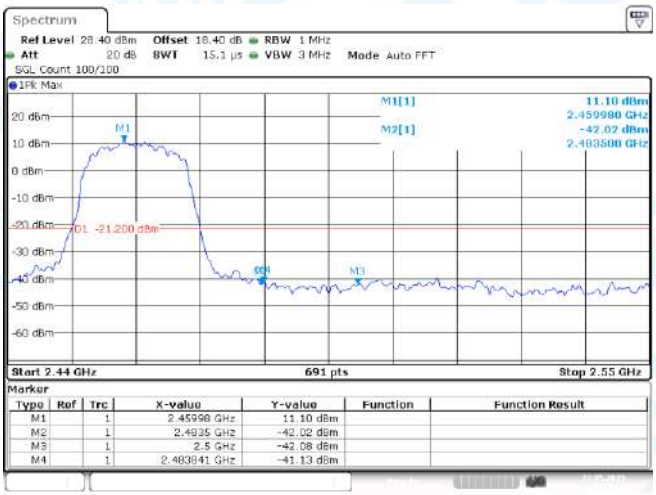

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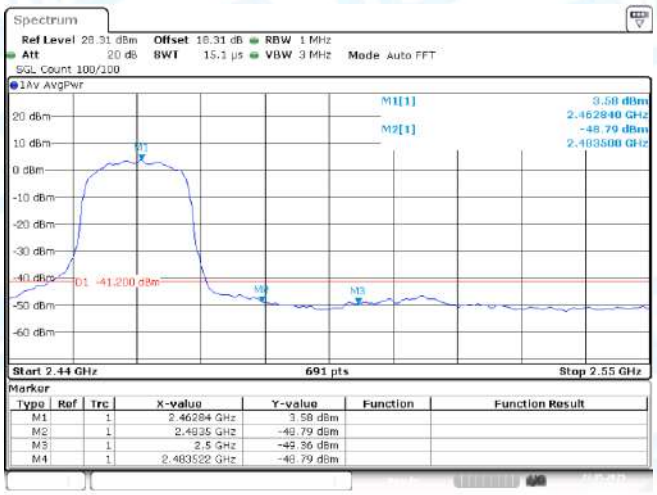

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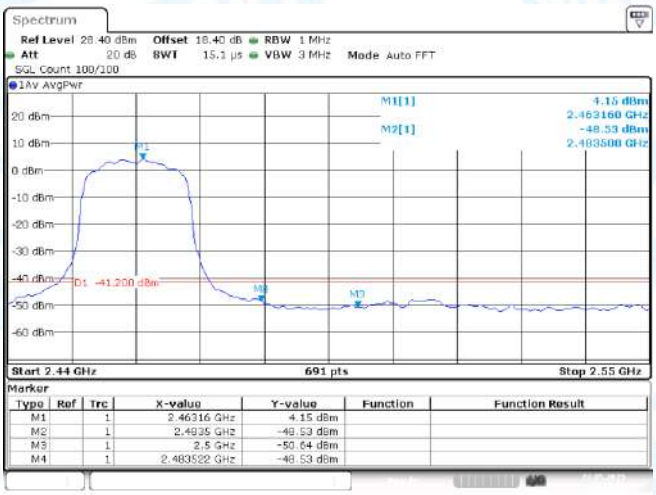

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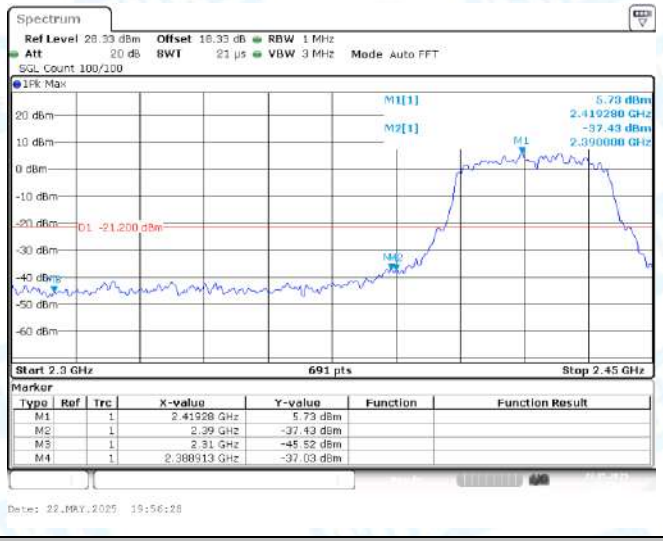

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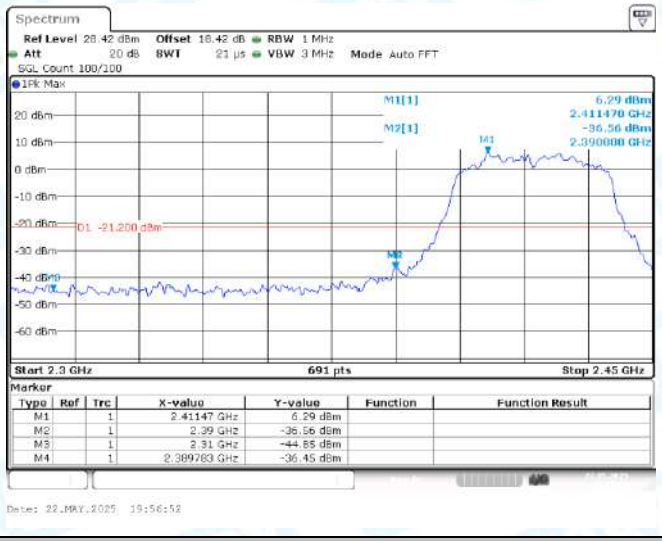

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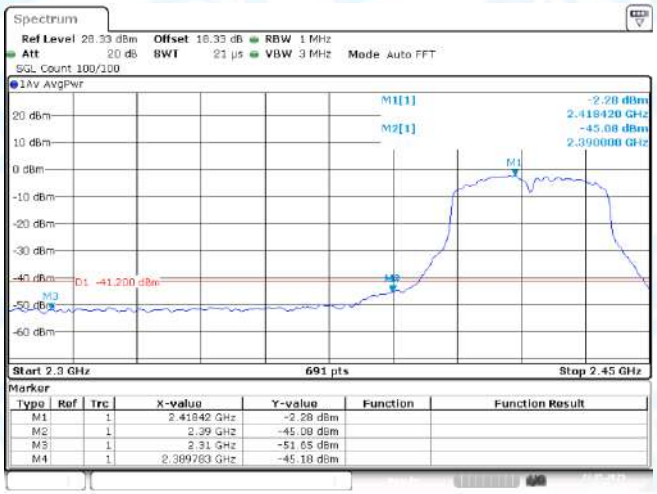

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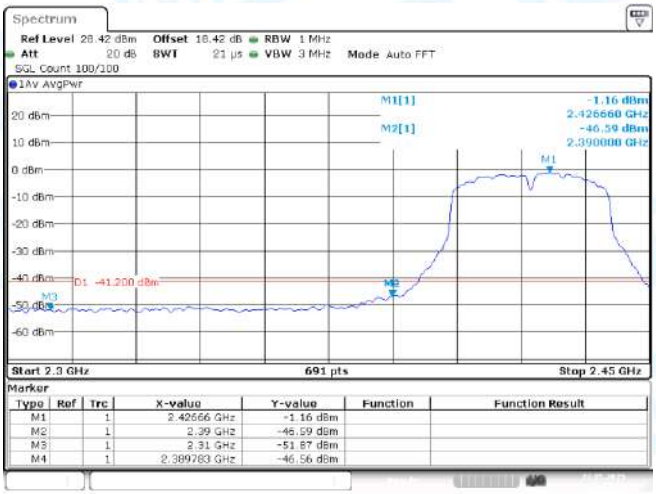

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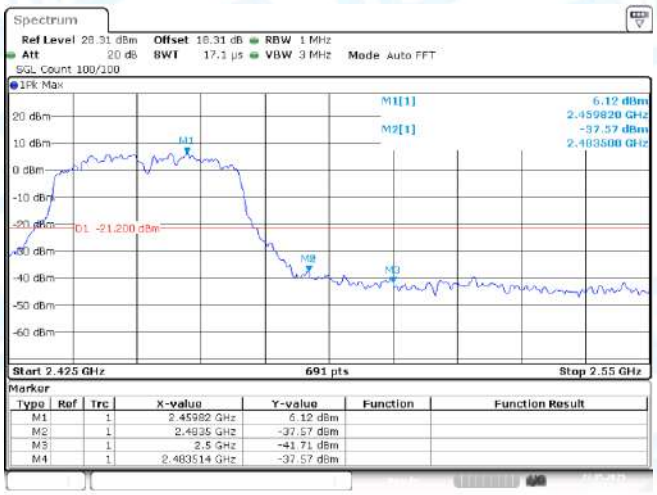

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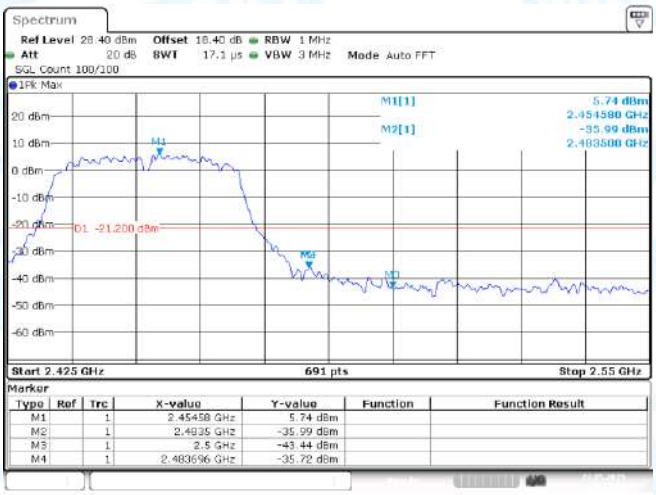

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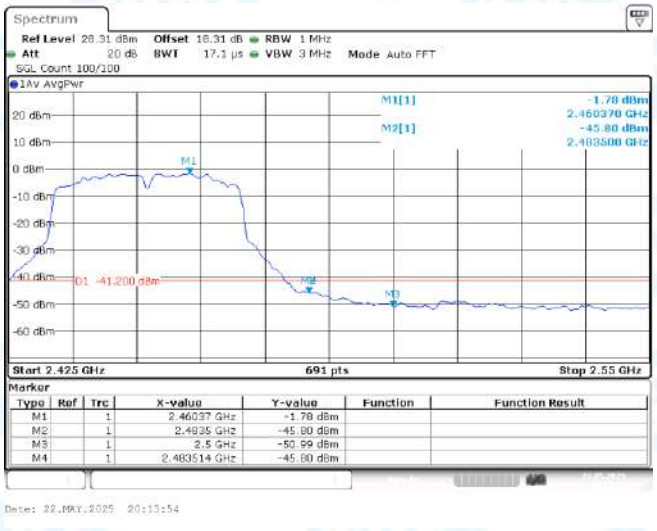

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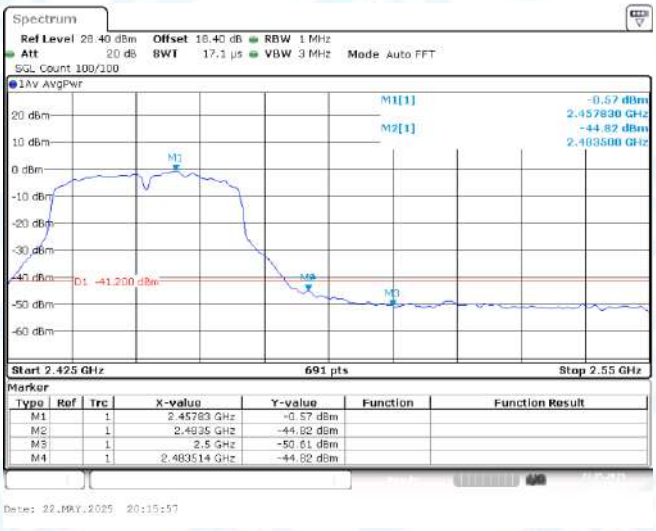

11N40MIMO-Ant2-2452-PASS

-----END OF THE REPORT-----