

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

General Description of EUT	
EUT Name:	Multimode Engineering Gateway
Model:	UX18
Sample ID:	HC-C-202411-0044-02-02-2#
Environmental Conditions	
Ambient Temperature:	25.6°C
Ambient Humidity:	44%RH
Test Power Supply:	DC 5V
Test Engineer:	Jolin Lee
Note: For a more detailed features description, please refer to the report TBR-C-202411-0044-52	

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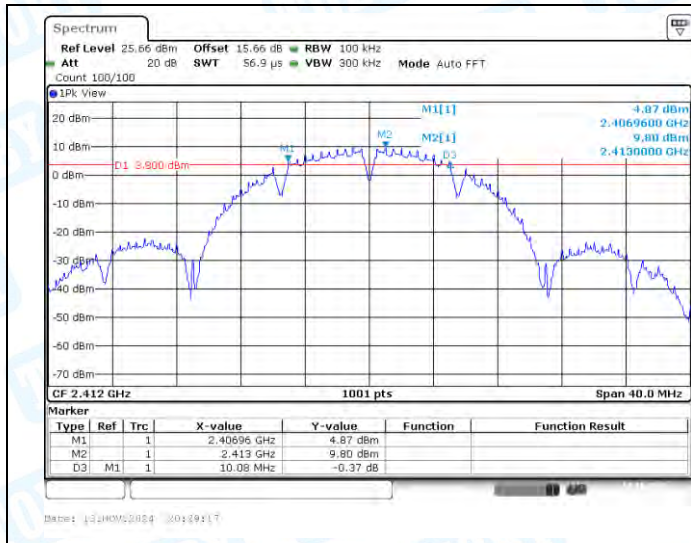
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1: DTS Bandwidth

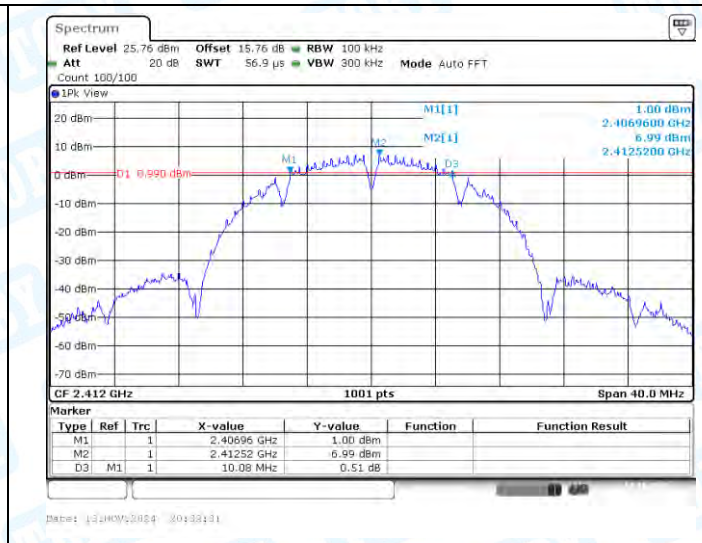
1.1 Test Result

TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	10.08	2406.96	2417.04	0.5	PASS
11B-CDD	Ant2	2412	10.08	2406.96	2417.04	0.5	PASS
11B-CDD	Ant1	2437	9.12	2432.44	2441.56	0.5	PASS
11B-CDD	Ant2	2437	10.08	2431.96	2442.04	0.5	PASS
11B-CDD	Ant1	2462	10.08	2456.96	2467.04	0.5	PASS
11B-CDD	Ant2	2462	10.08	2456.96	2467.04	0.5	PASS
11G-CDD	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
11G-CDD	Ant2	2412	16.48	2403.76	2420.24	0.5	PASS
11G-CDD	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
11G-CDD	Ant2	2437	16.44	2428.80	2445.24	0.5	PASS
11G-CDD	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
11G-CDD	Ant2	2462	16.36	2453.80	2470.16	0.5	PASS
11N20MIMO	Ant1	2412	17.36	2403.20	2420.56	0.5	PASS
11N20MIMO	Ant2	2412	16.28	2403.84	2420.12	0.5	PASS
11N20MIMO	Ant1	2437	17.56	2428.20	2445.76	0.5	PASS
11N20MIMO	Ant2	2437	16.04	2428.84	2444.88	0.5	PASS
11N20MIMO	Ant1	2462	16.64	2453.48	2470.12	0.5	PASS
11N20MIMO	Ant2	2462	16.28	2453.84	2470.12	0.5	PASS
11N40MIMO	Ant1	2422	36.40	2403.76	2440.16	0.5	PASS
11N40MIMO	Ant2	2422	35.28	2404.24	2439.52	0.5	PASS
11N40MIMO	Ant1	2437	35.68	2419.08	2454.76	0.5	PASS
11N40MIMO	Ant2	2437	36.32	2418.84	2455.16	0.5	PASS
11N40MIMO	Ant1	2452	36.00	2433.84	2469.84	0.5	PASS
11N40MIMO	Ant2	2452	36.32	2433.84	2470.16	0.5	PASS

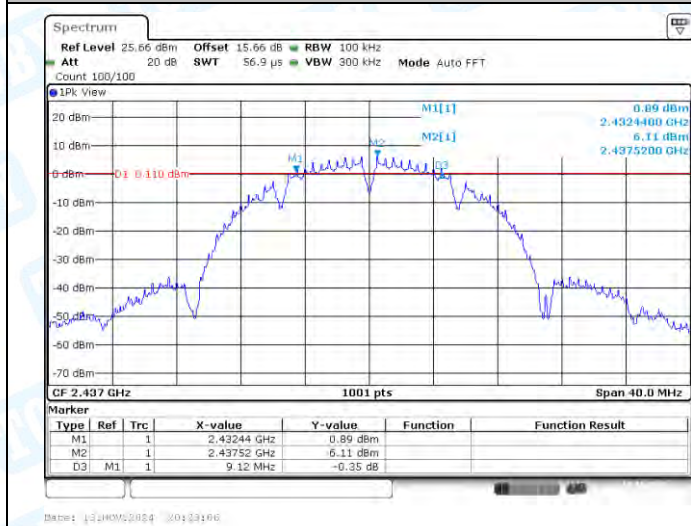
1.2 Test Graphs



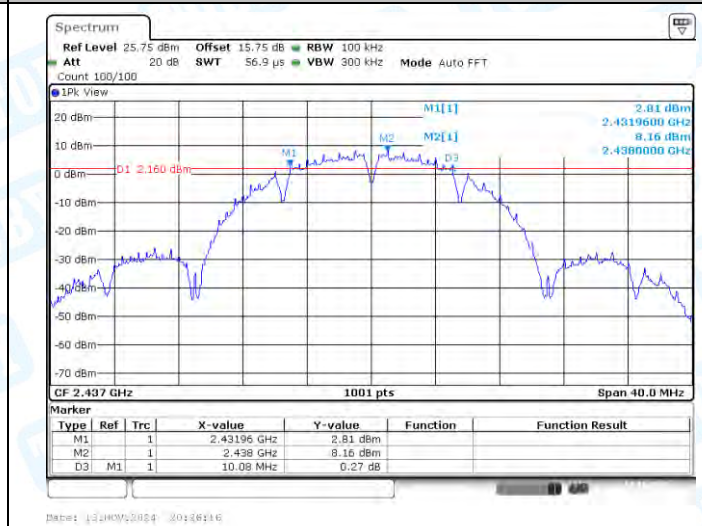
11B-CDD-Ant1-2412-PASS



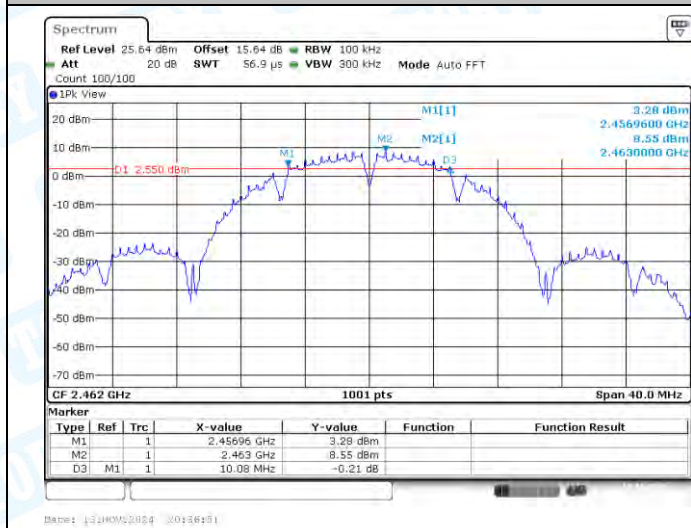
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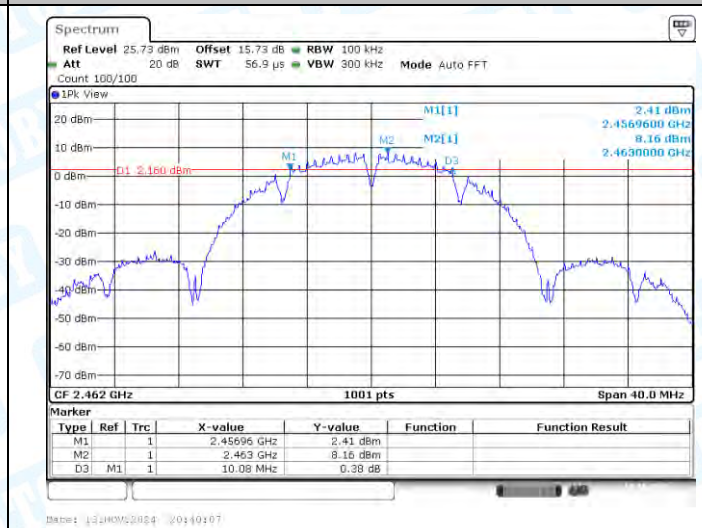
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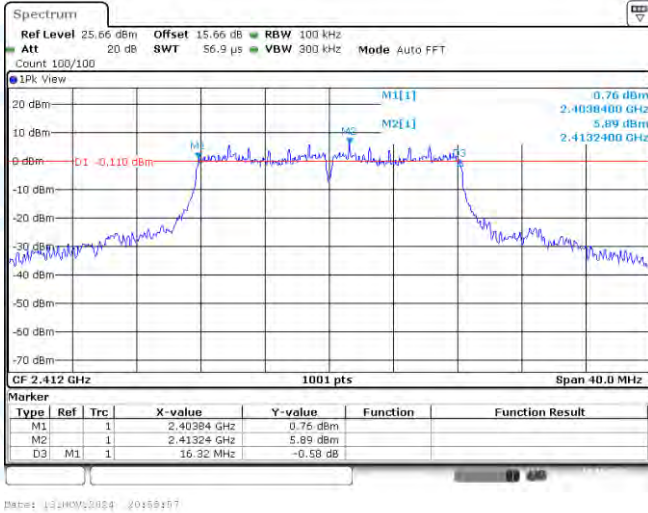
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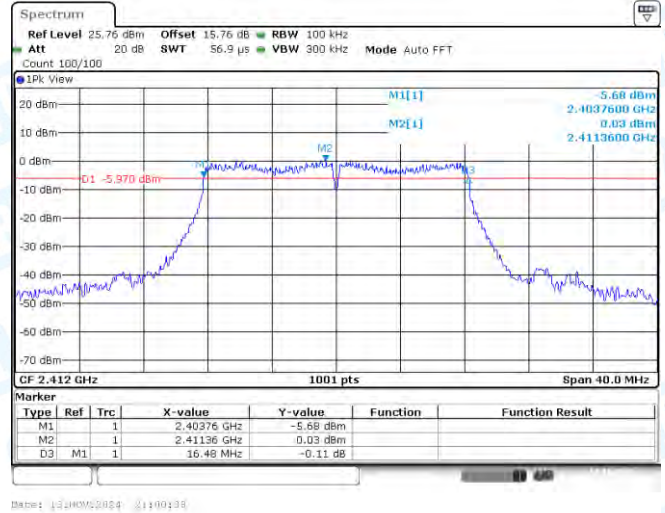
11B-CDD-Ant1-2462-PASS



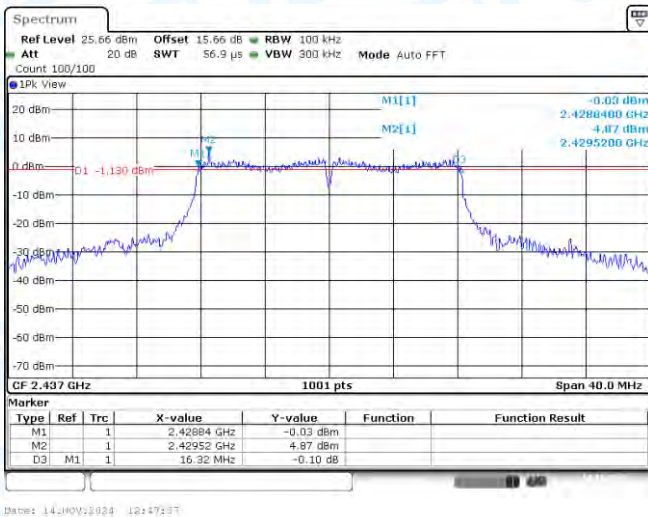
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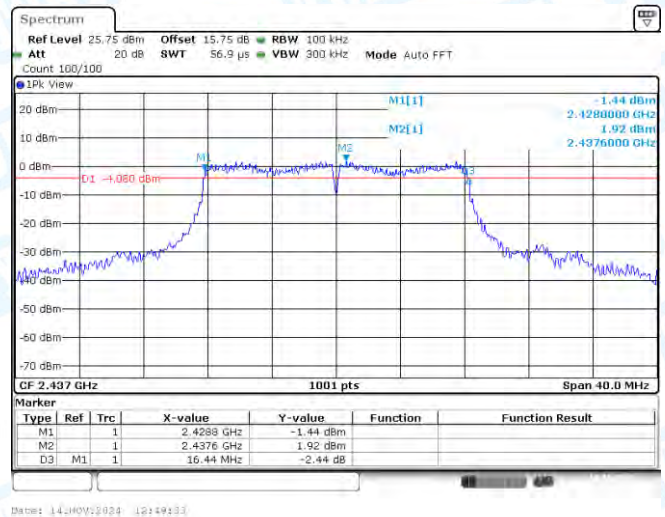
11G-CDD-Ant1-2412-PASS



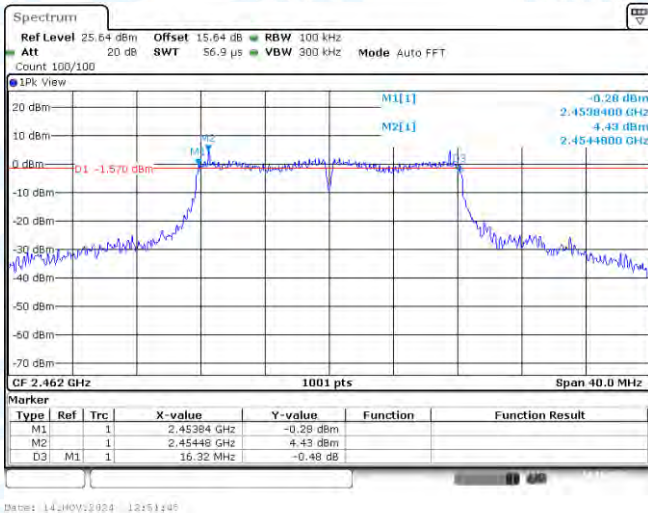
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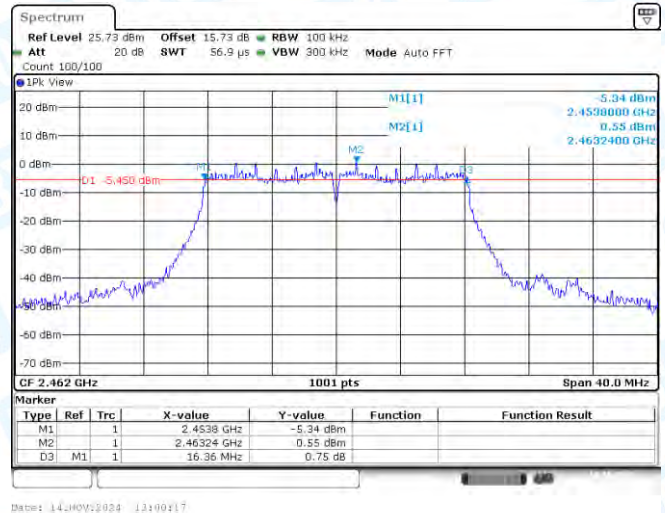
11G-CDD-Ant1-2437-PASS



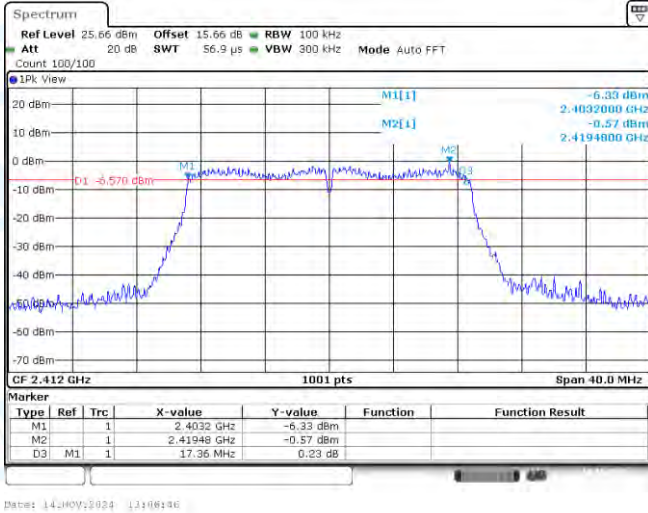
11G-CDD-Ant2-2437-PASS



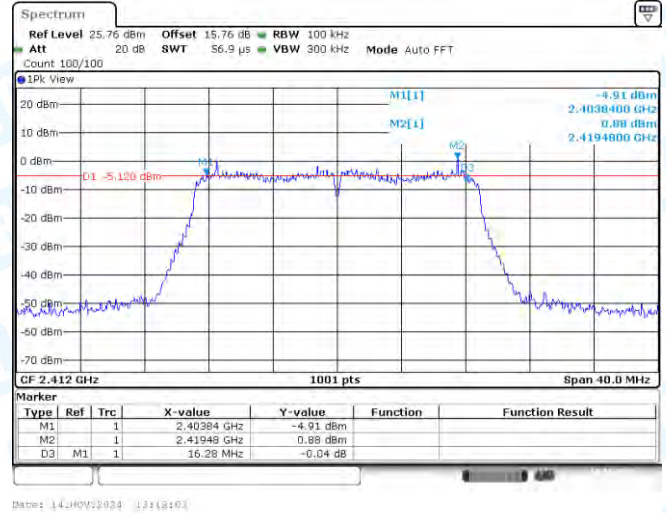
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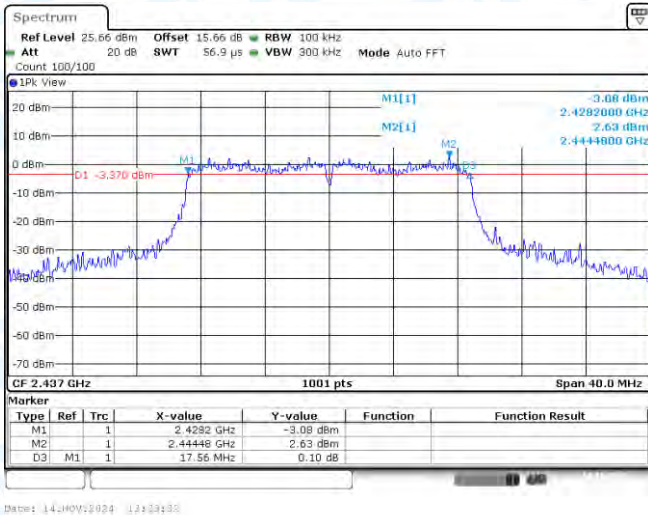
11G-CDD-Ant2-2462-PASS



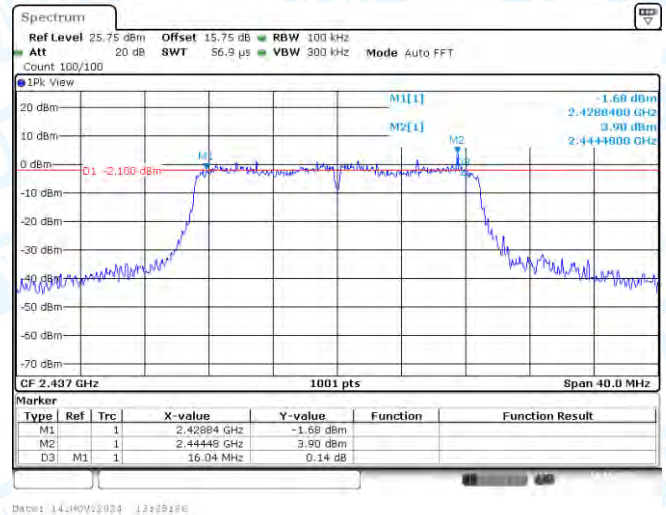
11N20MIMO-Ant1-2412-PASS



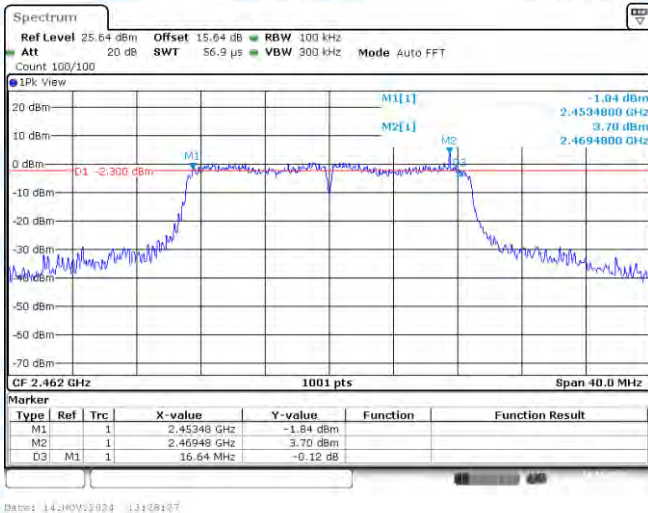
11N20MIMO-Ant2-2412-PASS



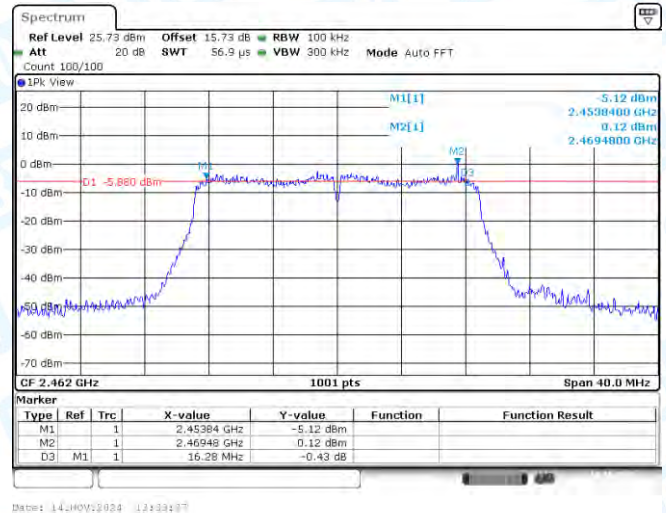
11N20MIMO-Ant1-2437-PASS



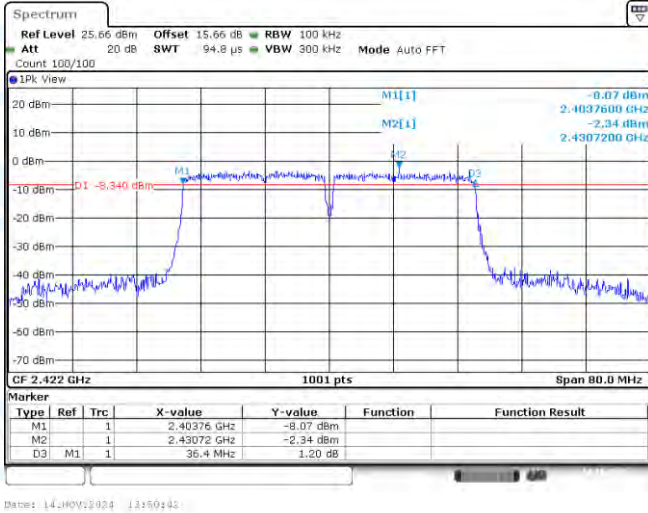
11N20MIMO-Ant2-2437-PASS



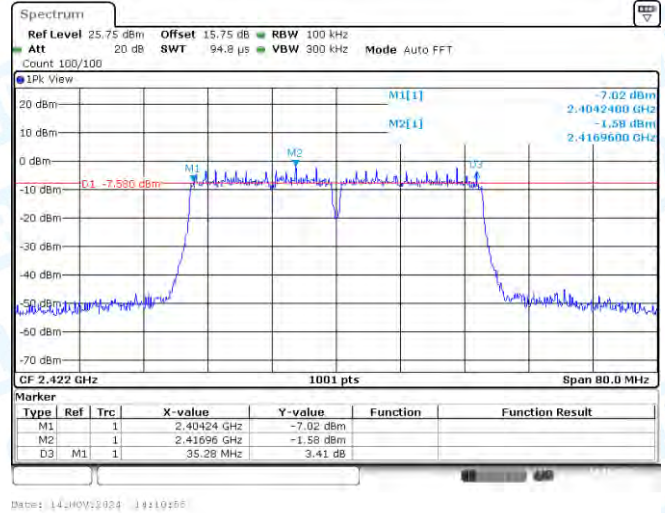
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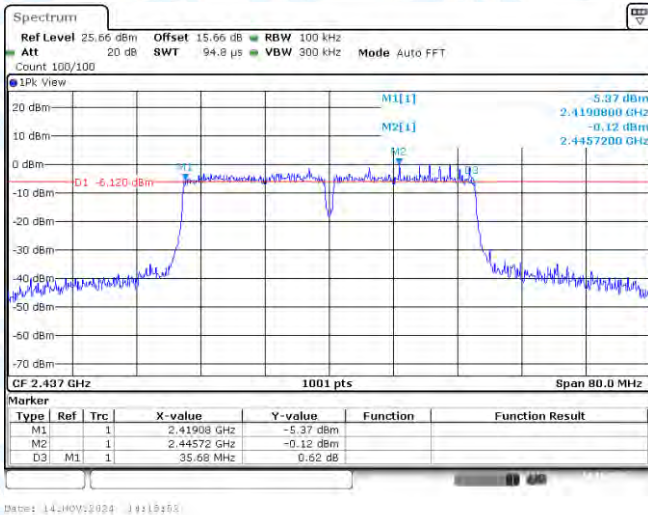
11N20MIMO-Ant2-2462-PASS



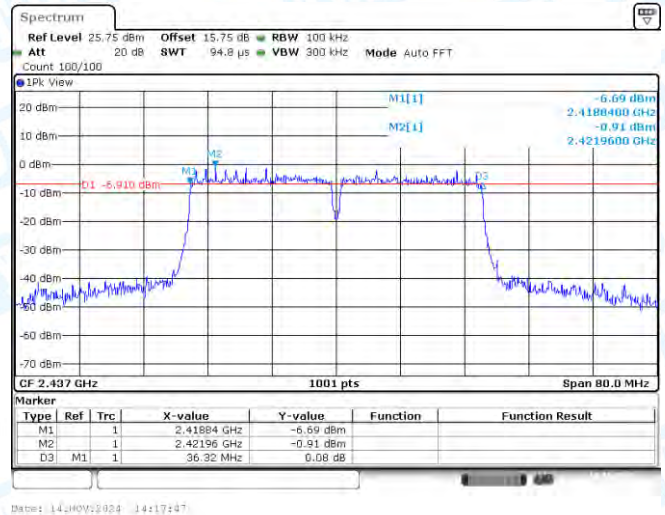
11N40MIMO-Ant1-2422-PASS



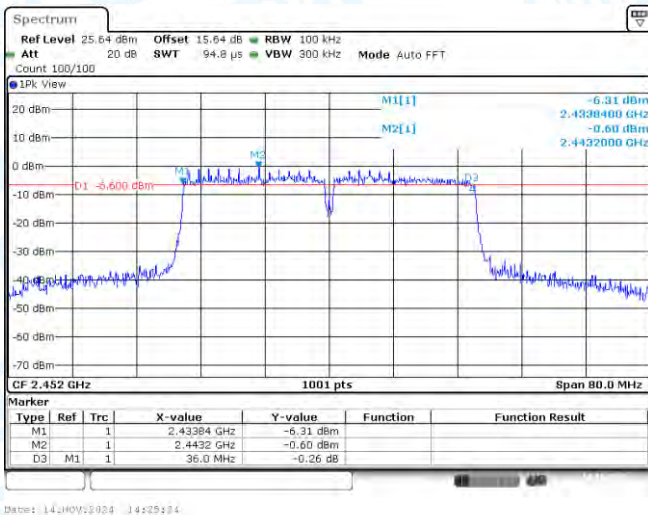
11N40MIMO-Ant2-2422-PASS



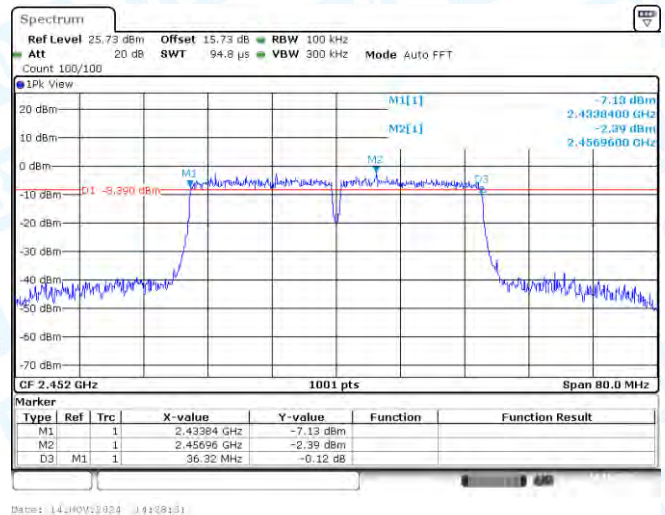
11N40MIMO-Ant1-2437-PASS



11N40MIMO-Ant2-2437-PASS



11N40MIMO-Ant1-2452-PASS



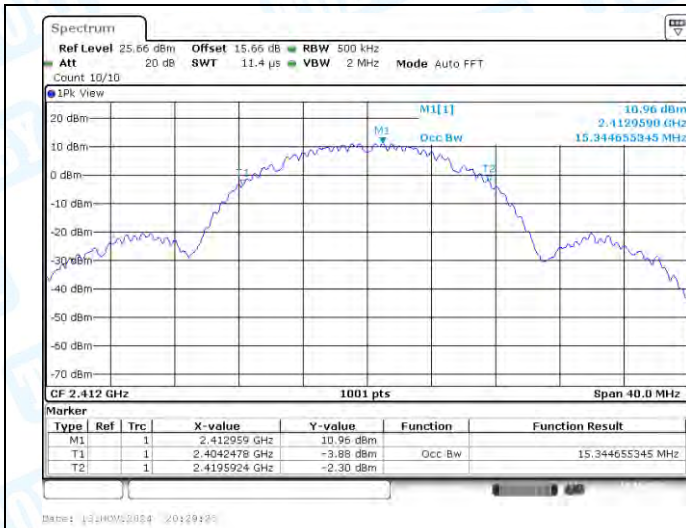
11N40MIMO-Ant2-2452-PASS

2: Occupied Channel Bandwidth

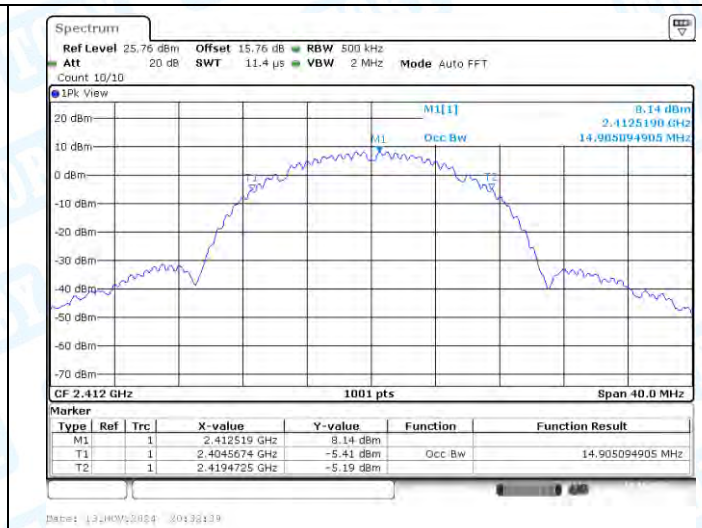
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	15.345	2404.2478	2419.5924	---	---
11B-CDD	Ant2	2412	14.905	2404.5674	2419.4725	---	---
11B-CDD	Ant1	2437	14.825	2429.6074	2444.4326	---	---
11B-CDD	Ant2	2437	15.105	2429.4076	2444.5125	---	---
11B-CDD	Ant1	2462	15.305	2454.2877	2469.5924	---	---
11B-CDD	Ant2	2462	15.105	2454.4076	2469.5125	---	---
11G-CDD	Ant1	2412	16.823	2403.6084	2420.4316	---	---
11G-CDD	Ant2	2412	16.743	2403.6484	2420.3916	---	---
11G-CDD	Ant1	2437	17.063	2428.3686	2445.4316	---	---
11G-CDD	Ant2	2437	16.863	2428.6484	2445.5115	---	---
11G-CDD	Ant1	2462	16.983	2453.4486	2470.4316	---	---
11G-CDD	Ant2	2462	16.743	2453.5684	2470.3117	---	---
11N20MIMO	Ant1	2412	17.742	2403.0889	2420.8312	---	---
11N20MIMO	Ant2	2412	17.742	2403.0090	2420.7512	---	---
11N20MIMO	Ant1	2437	17.702	2428.1289	2445.8312	---	---
11N20MIMO	Ant2	2437	17.862	2428.0490	2445.9111	---	---
11N20MIMO	Ant1	2462	17.702	2453.1289	2470.8312	---	---
11N20MIMO	Ant2	2462	17.702	2453.1688	2470.8711	---	---
11N40MIMO	Ant1	2422	36.284	2403.8581	2440.1419	---	---
11N40MIMO	Ant2	2422	36.204	2403.9381	2440.1419	---	---
11N40MIMO	Ant1	2437	36.284	2418.8581	2455.1419	---	---
11N40MIMO	Ant2	2437	36.124	2418.9381	2455.0619	---	---
11N40MIMO	Ant1	2452	36.284	2433.8581	2470.1419	---	---
11N40MIMO	Ant2	2452	36.204	2433.8581	2470.0619	---	---

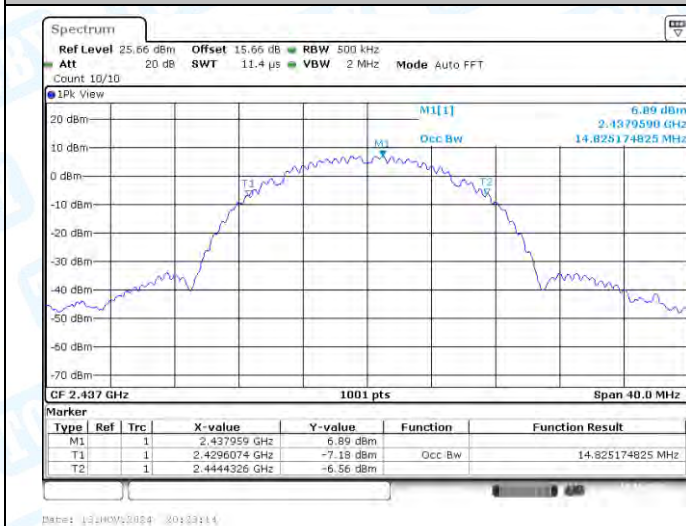
2.2 Test Graphs



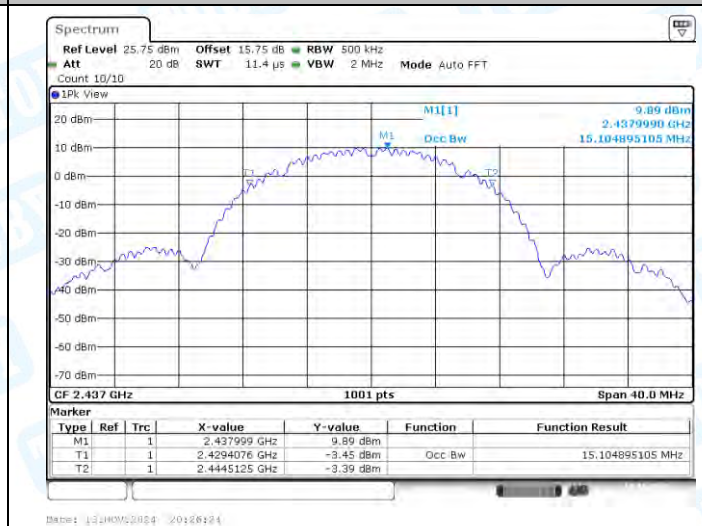
11B-CDD-Ant1-2412



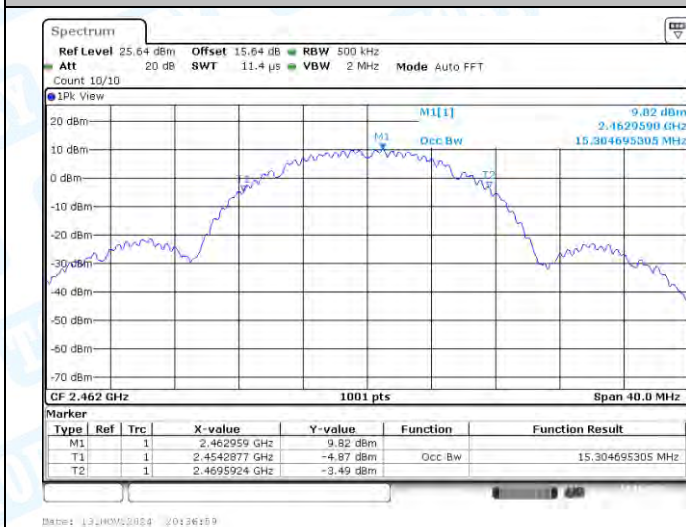
11B-CDD-Ant2-2412



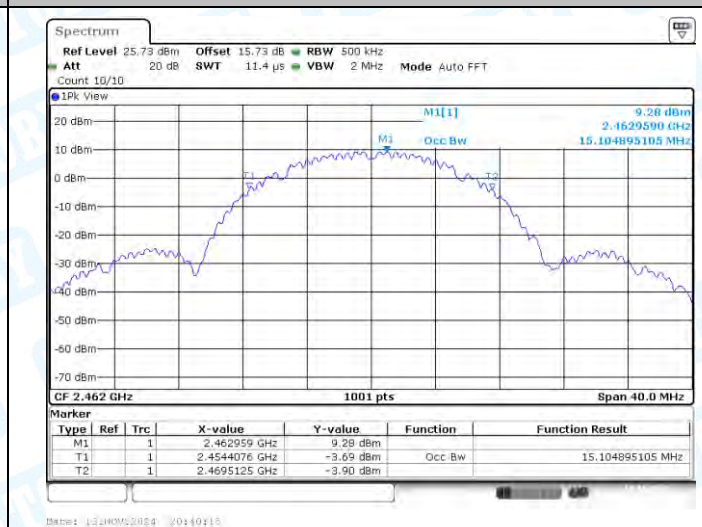
11B-CDD-Ant1-2437



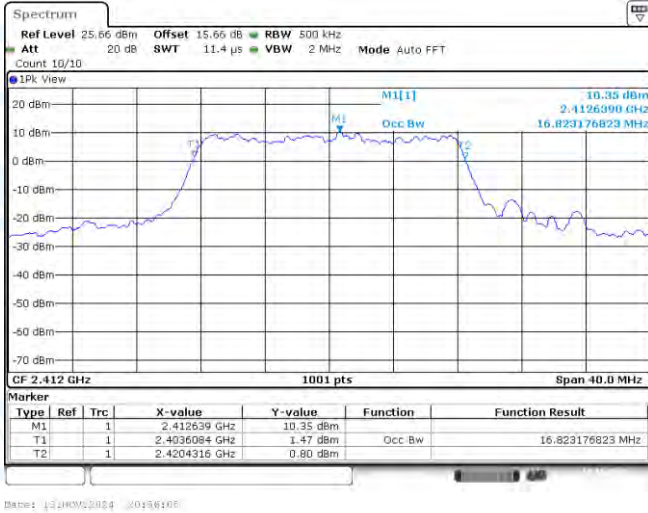
11B-CDD-Ant2-2437



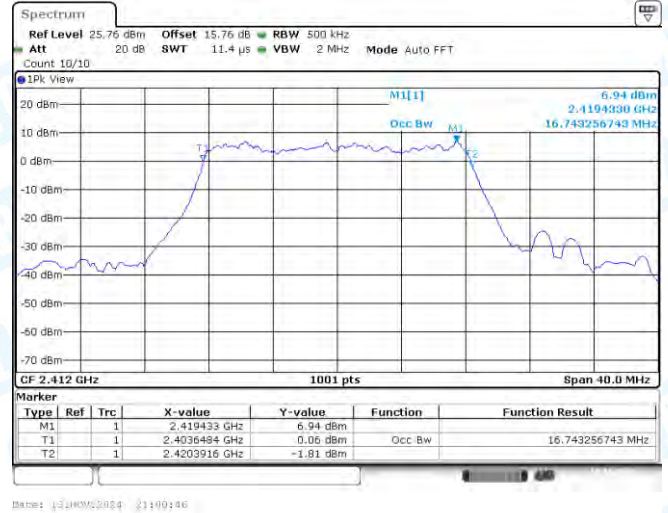
11B-CDD-Ant1-2462



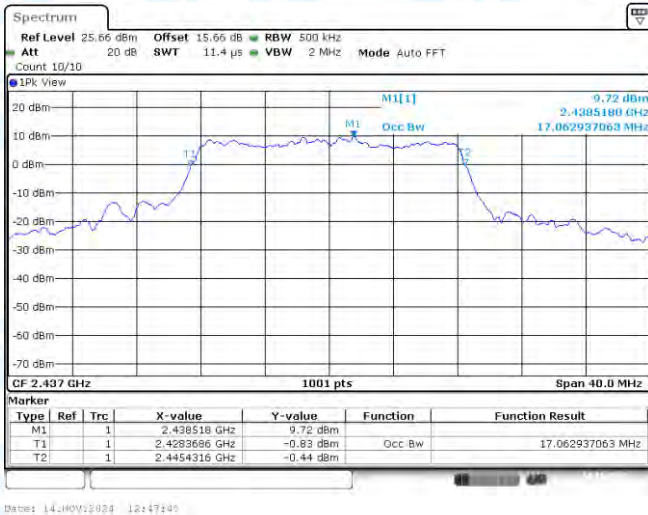
11B-CDD-Ant2-2462



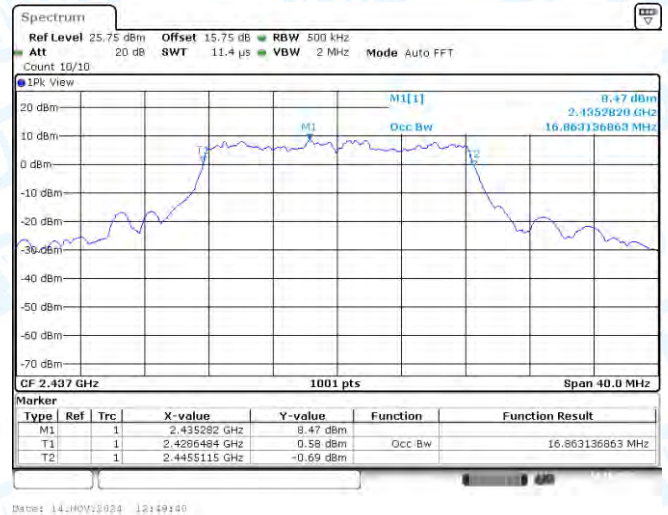
11G-CDD-Ant1-2412



11G-CDD-Ant2-2412



11G-CDD-Ant1-2437



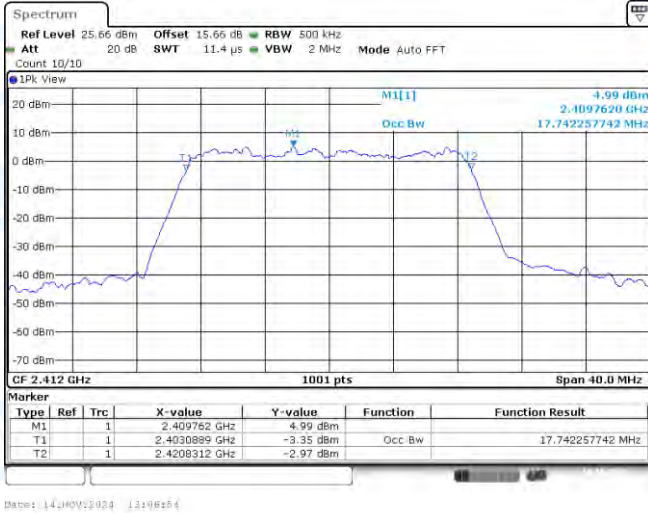
11G-CDD-Ant2-2437



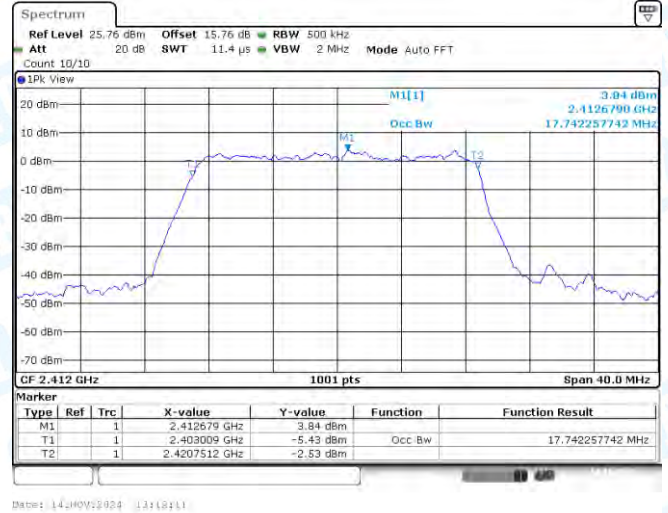
11G-CDD-Ant1-2462



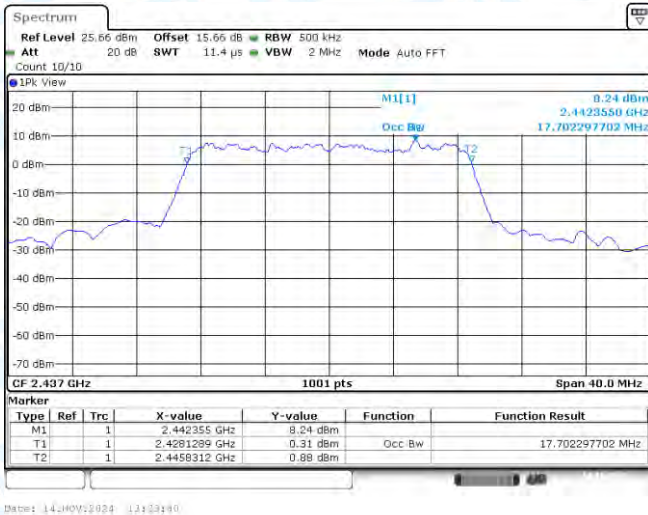
11G-CDD-Ant2-2462



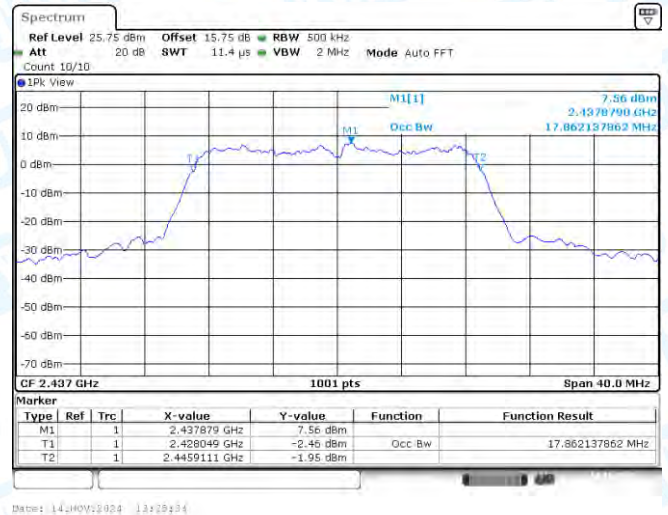
11N20MIMO-Ant1-2412



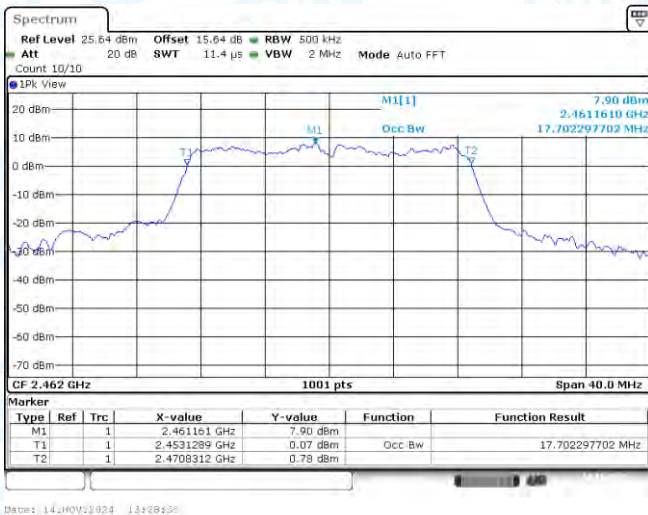
11N20MIMO-Ant2-2412



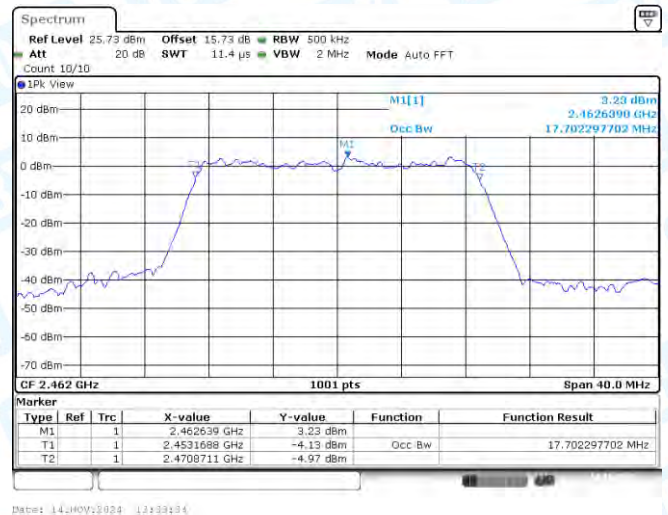
11N20MIMO-Ant1-2437



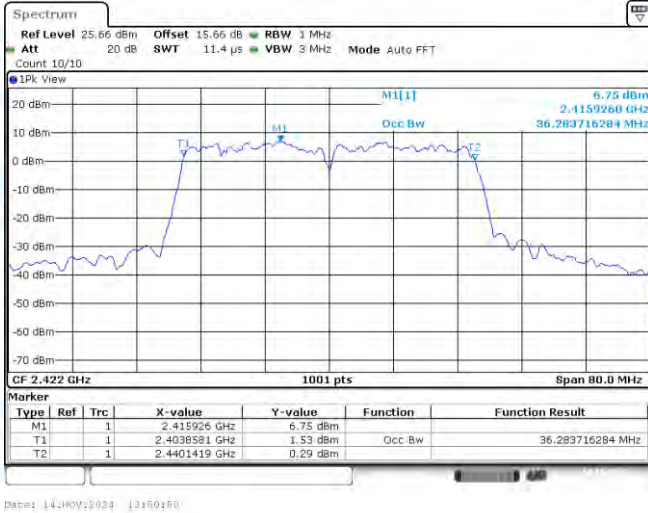
11N20MIMO-Ant2-2437



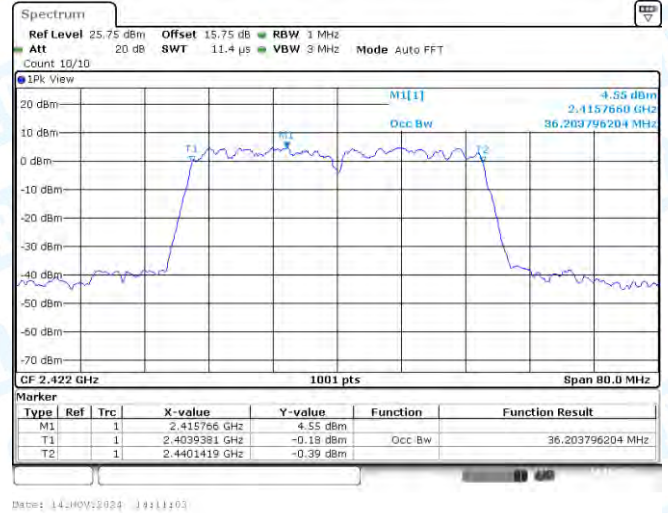
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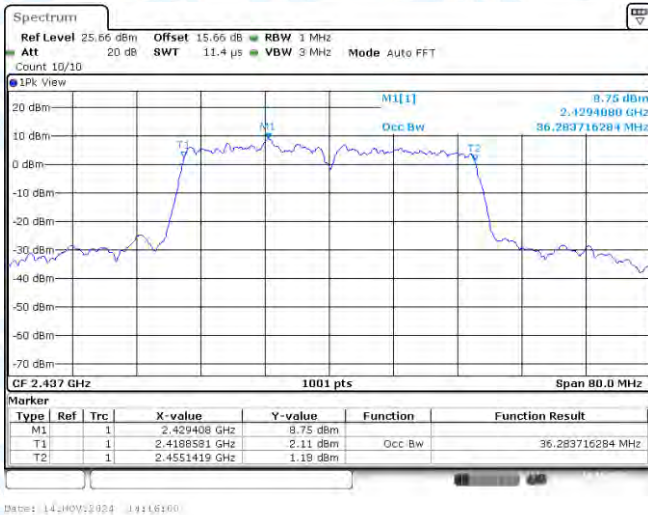
11N20MIMO-Ant2-2462



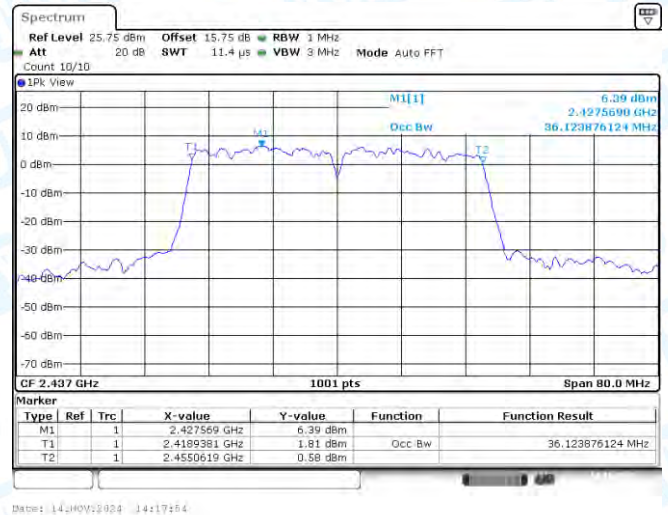
11N40MIMO-Ant1-2422



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]	Verdict
11B-CDD	Ant1	2412	16.31	≤30.00	PASS
11B-CDD	Ant2	2412	16.01	≤30.00	PASS
11B-CDD	total	2412	19.17	≤29.70	PASS
11B-CDD	Ant1	2437	18.18	≤30.00	PASS
11B-CDD	Ant2	2437	16.03	≤30.00	PASS
11B-CDD	total	2437	20.25	≤29.70	PASS
11B-CDD	Ant1	2462	17.45	≤30.00	PASS
11B-CDD	Ant2	2462	16.84	≤30.00	PASS
11B-CDD	total	2462	20.17	≤29.70	PASS
11G-CDD	Ant1	2412	14.14	≤30.00	PASS
11G-CDD	Ant2	2412	13.90	≤30.00	PASS
11G-CDD	total	2412	17.03	≤29.70	PASS
11G-CDD	Ant1	2437	16.31	≤30.00	PASS
11G-CDD	Ant2	2437	15.78	≤30.00	PASS
11G-CDD	total	2437	19.06	≤29.70	PASS
11G-CDD	Ant1	2462	12.94	≤30.00	PASS
11G-CDD	Ant2	2462	11.78	≤30.00	PASS
11G-CDD	total	2462	15.41	≤29.70	PASS
11N20MIMO	Ant1	2412	13.77	≤30.00	PASS
11N20MIMO	Ant2	2412	12.40	≤30.00	PASS
11N20MIMO	total	2412	16.15	≤29.70	PASS
11N20MIMO	Ant1	2437	14.13	≤30.00	PASS
11N20MIMO	Ant2	2437	14.08	≤30.00	PASS
11N20MIMO	total	2437	17.12	≤29.70	PASS
11N20MIMO	Ant1	2462	12.91	≤30.00	PASS
11N20MIMO	Ant2	2462	12.03	≤30.00	PASS
11N20MIMO	total	2462	15.50	≤29.70	PASS
11N40MIMO	Ant1	2422	12.04	≤30.00	PASS
11N40MIMO	Ant2	2422	11.84	≤30.00	PASS
11N40MIMO	total	2422	14.95	≤29.70	PASS
11N40MIMO	Ant1	2437	14.27	≤30.00	PASS
11N40MIMO	Ant2	2437	13.43	≤30.00	PASS
11N40MIMO	total	2437	16.88	≤29.70	PASS
11N40MIMO	Ant1	2452	11.37	≤30.00	PASS
11N40MIMO	Ant2	2452	10.66	≤30.00	PASS
11N40MIMO	total	2452	14.04	≤29.70	PASS

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two antennas for transmitting and receiving.

When ANT.1 and ANT. 2 transmitting simultaneously, and the Directional Gain=6.30dBi> 6dBi. (Ant.1: 3.14dBi; Ant.2: 3.4dBi)

So $P_{out} = P_{limit} - (G_{TX} - 6) = (30.00 - 0.30) \text{ dBm} = 29.70 \text{ dBm}$

Directional Gain=10 log $[(10^{G1}/20 + 10^{G2}/20 + \dots + 10^{GN}/20)^{2/NANT}]$

The Duty Cycle Factor is compensated in the graph.

4: Maximum power spectral density

4.1 Test Result

TestMode	Ant.	Frequency[MHz]	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant1	2412	-12.99	≤8.00	PASS
11B-CDD	Ant2	2412	-14.95	≤8.00	PASS
11B-CDD	total	2412	-10.85	≤7.70	PASS
11B-CDD	Ant1	2437	-12.27	≤8.00	PASS
11B-CDD	Ant2	2437	-11.28	≤8.00	PASS
11B-CDD	total	2437	-8.74	≤7.70	PASS
11B-CDD	Ant1	2462	-11.91	≤8.00	PASS
11B-CDD	Ant2	2462	-13.04	≤8.00	PASS
11B-CDD	total	2462	-9.43	≤7.70	PASS
11G-CDD	Ant1	2412	-17.09	≤8.00	PASS
11G-CDD	Ant2	2412	-17.64	≤8.00	PASS
11G-CDD	total	2412	-14.35	≤7.70	PASS
11G-CDD	Ant1	2437	-15.23	≤8.00	PASS
11G-CDD	Ant2	2437	-15.48	≤8.00	PASS
11G-CDD	total	2437	-12.34	≤7.70	PASS
11G-CDD	Ant1	2462	-19.24	≤8.00	PASS
11G-CDD	Ant2	2462	-19.26	≤8.00	PASS
11G-CDD	total	2462	-16.24	≤7.70	PASS
11N20MIMO	Ant1	2412	-18.84	≤8.00	PASS
11N20MIMO	Ant2	2412	-19.60	≤8.00	PASS
11N20MIMO	total	2412	-16.19	≤7.70	PASS
11N20MIMO	Ant1	2437	-17.03	≤8.00	PASS
11N20MIMO	Ant2	2437	-17.91	≤8.00	PASS
11N20MIMO	total	2437	-14.44	≤7.70	PASS
11N20MIMO	Ant1	2462	-19.52	≤8.00	PASS
11N20MIMO	Ant2	2462	-19.64	≤8.00	PASS
11N20MIMO	total	2462	-16.57	≤7.70	PASS
11N40MIMO	Ant1	2422	-22.61	≤8.00	PASS
11N40MIMO	Ant2	2422	-22.71	≤8.00	PASS
11N40MIMO	total	2422	-19.65	≤7.70	PASS
11N40MIMO	Ant1	2437	-20.02	≤8.00	PASS
11N40MIMO	Ant2	2437	-20.80	≤8.00	PASS
11N40MIMO	total	2437	-17.38	≤7.70	PASS
11N40MIMO	Ant1	2452	-23.41	≤8.00	PASS
11N40MIMO	Ant2	2452	-23.38	≤8.00	PASS
11N40MIMO	total	2452	-20.38	≤7.70	PASS

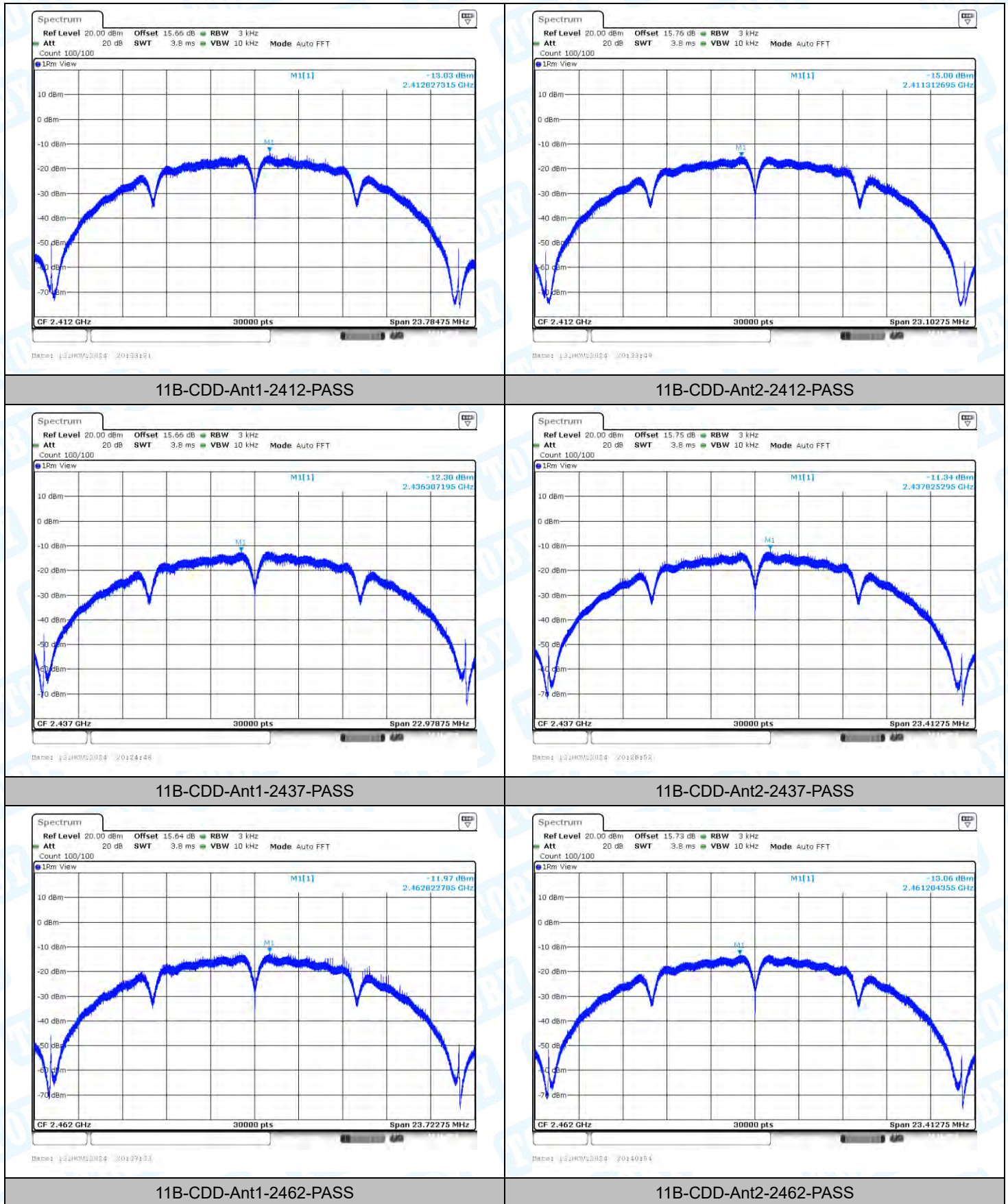
Note: The EUT incorporates a MIMO function. Physically, the EUT provides two antennas for transmitting and receiving.

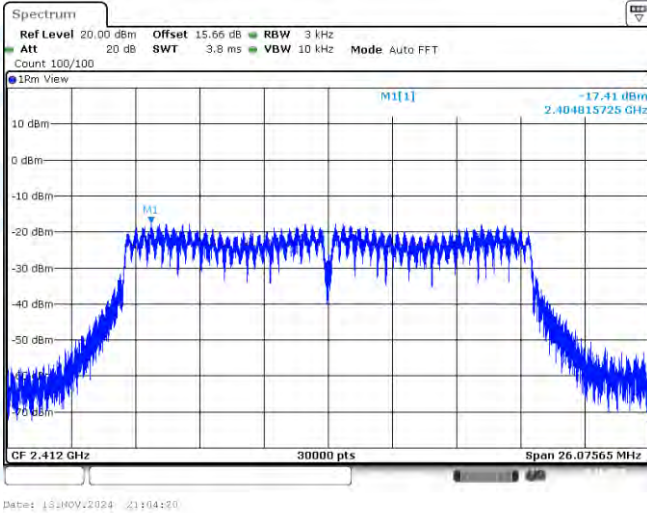
When ANT.1 and ANT. 2 transmitting simultaneously, and the Directional Gain=6.30dBi>6dBi. (Ant.1: 3.14dBi; Ant.2: 3.4dBi)
 So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (8 - 0.30)dBm = 7.70dBm$

Directional Gain=10 log[(10^{G1}/20 + 10^{G2}/20 + ... + 10^{GN}/20)²/NANT]

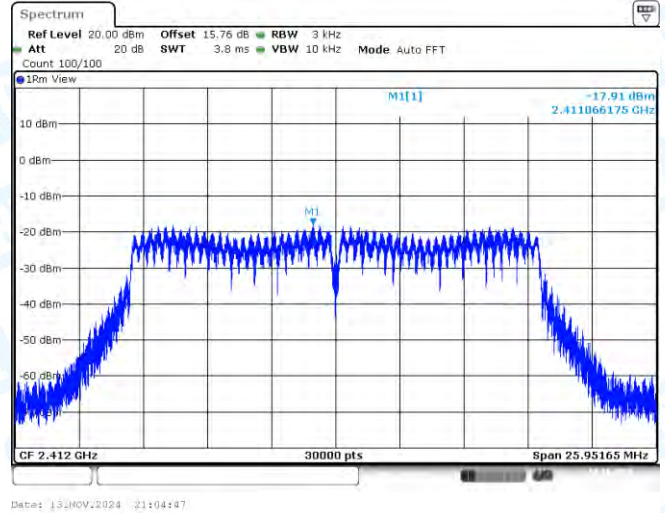
The Duty Cycle Factor is compensated in the graph.

4.2 Test Graphs

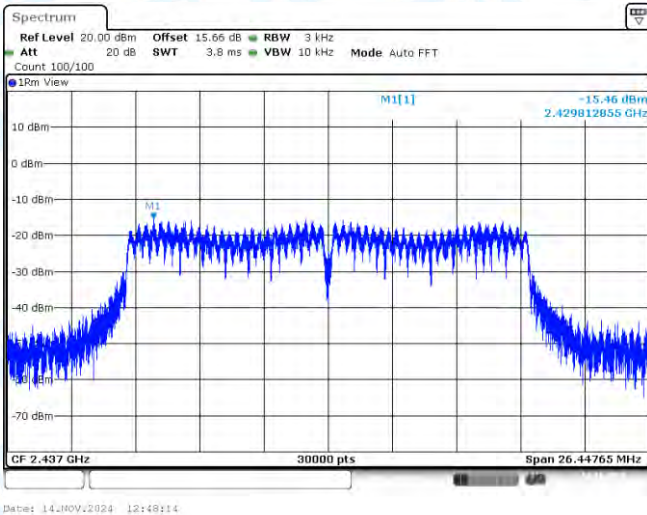




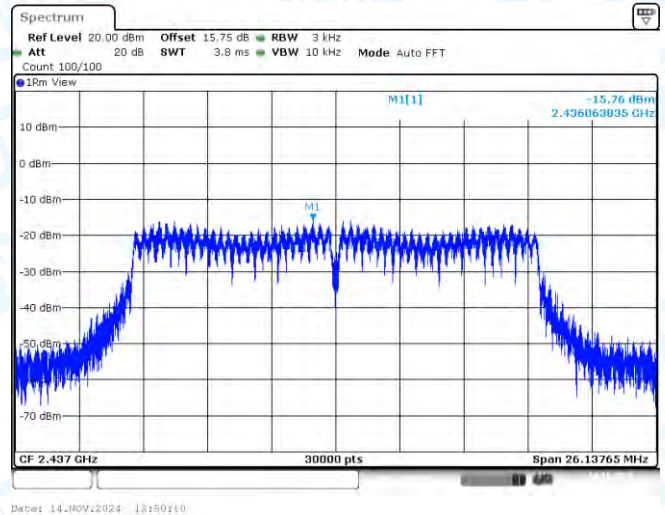
11G-CDD-Ant1-2412-PASS



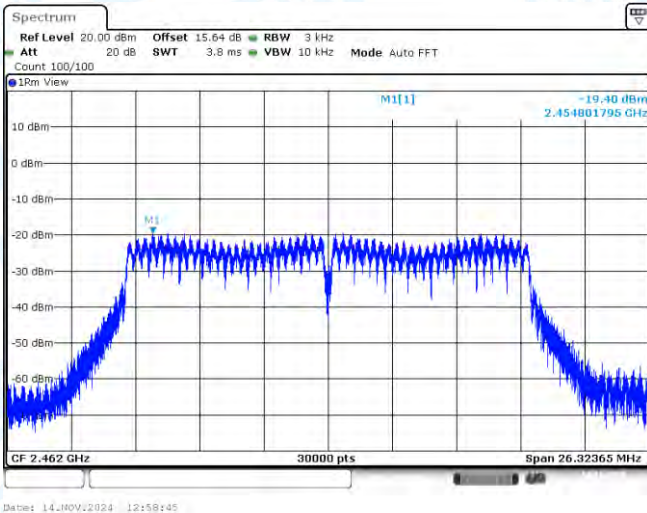
11G-CDD-Ant2-2412-PASS



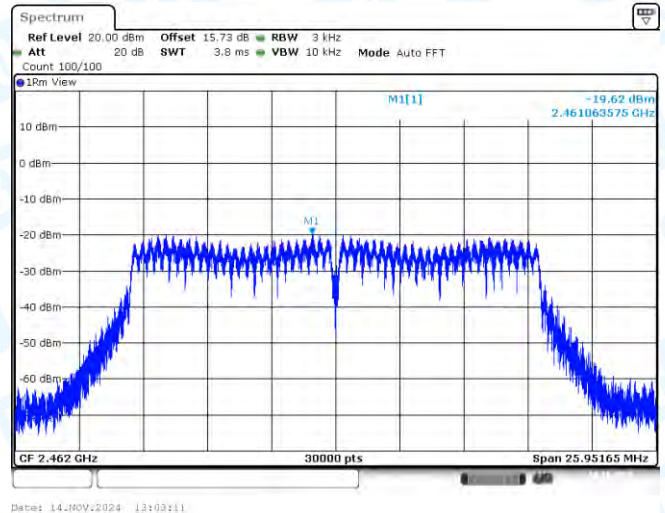
11G-CDD-Ant1-2437-PASS



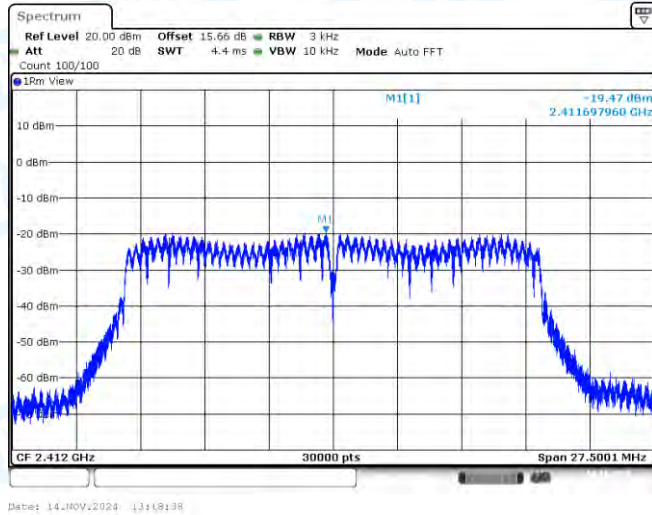
11G-CDD-Ant2-2437-PASS



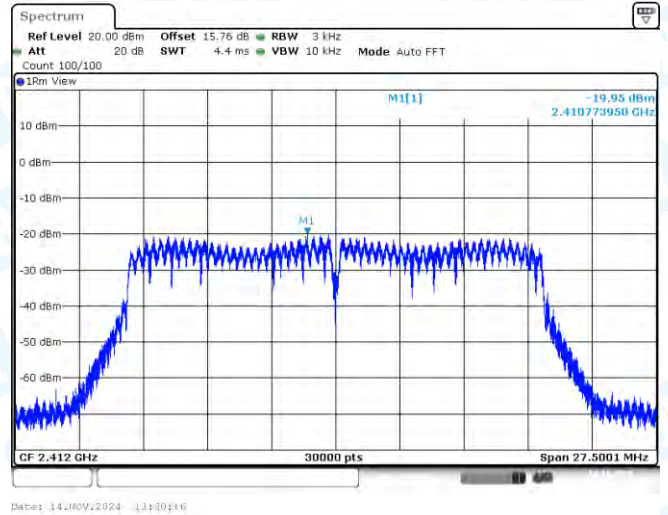
11G-CDD-Ant1-2462-PASS



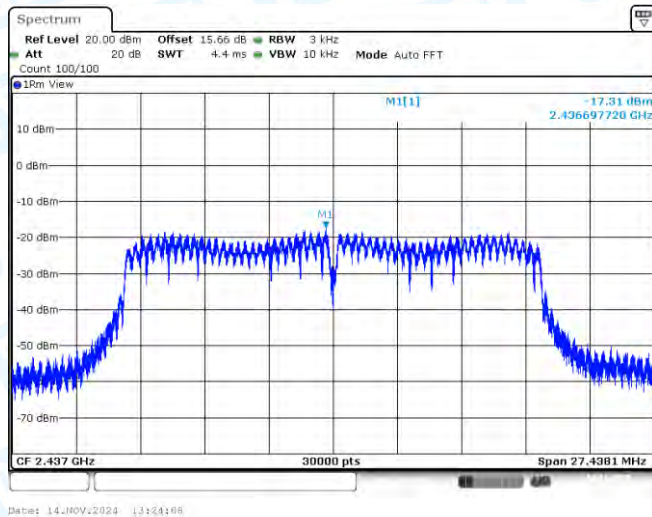
11G-CDD-Ant2-2462-PASS



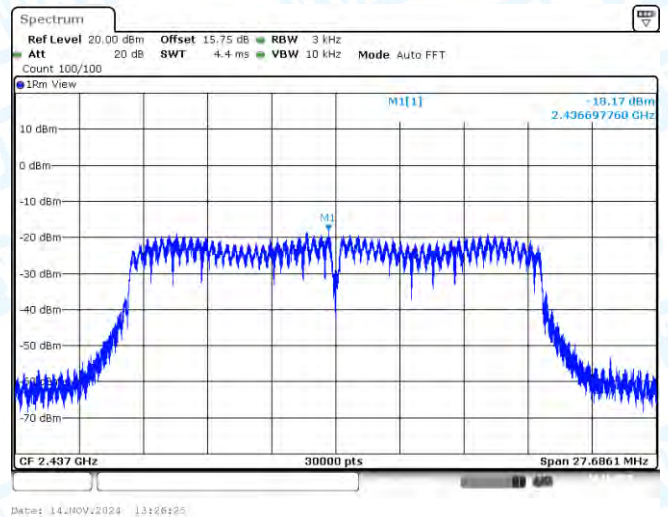
11N20MIMO-Ant1-2412-PASS



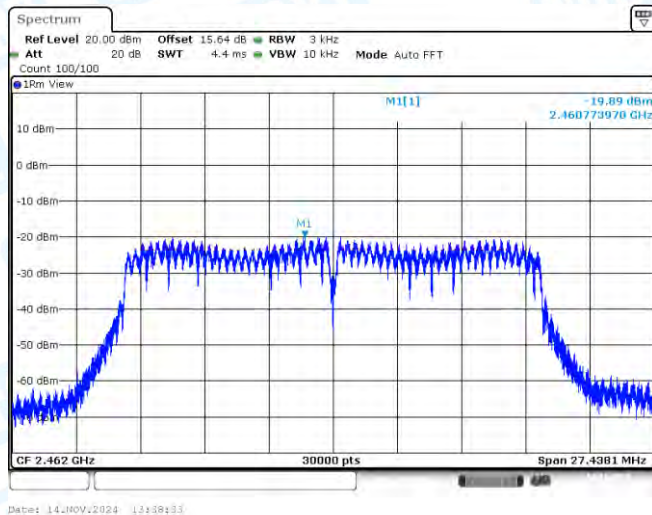
11N20MIMO-Ant2-2412-PASS



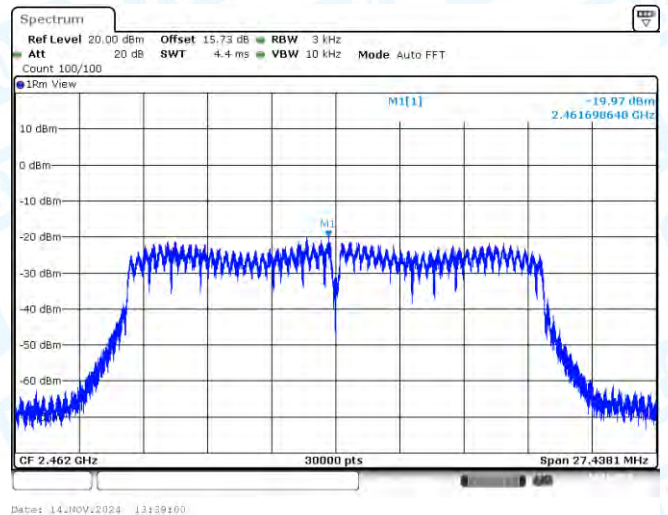
11N20MIMO-Ant1-2437-PASS



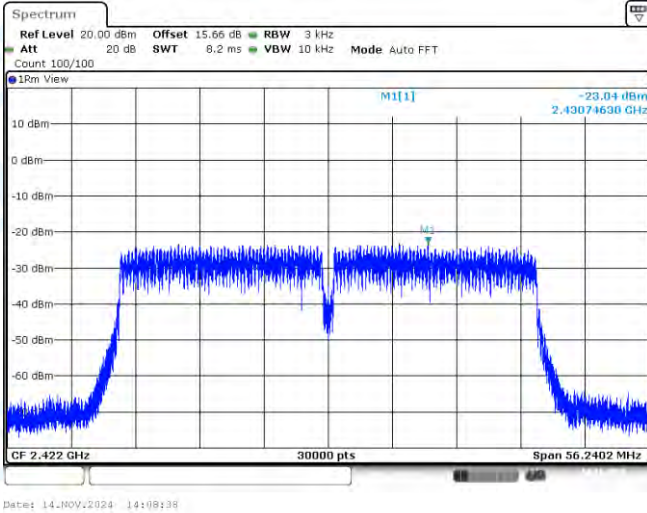
11N20MIMO-Ant2-2437-PASS



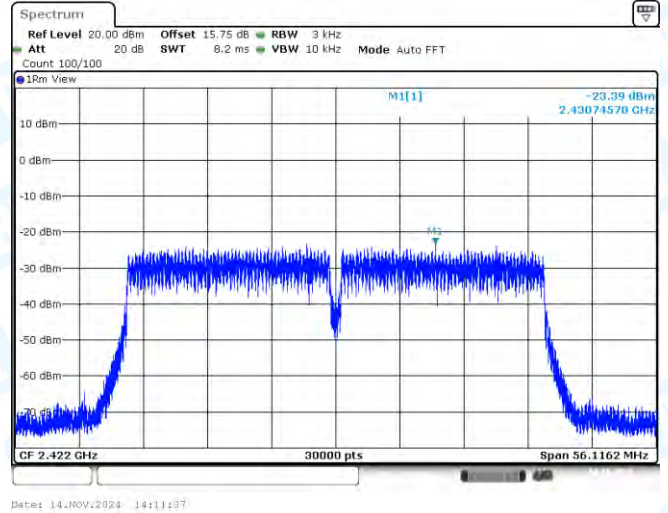
11N20MIMO-Ant1-2462-PASS



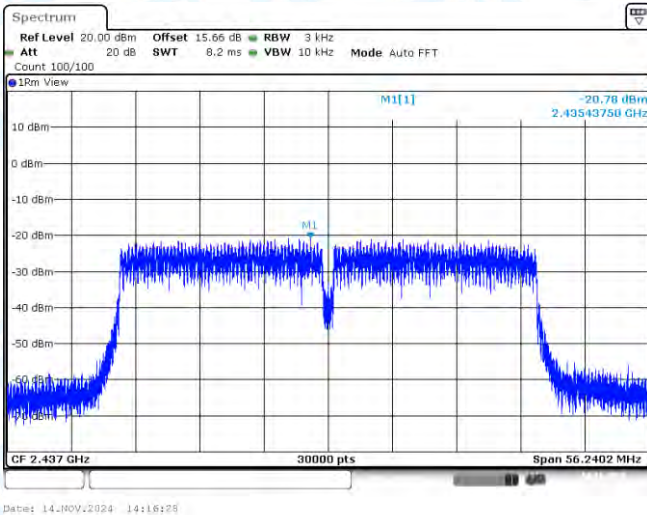
11N20MIMO-Ant2-2462-PASS



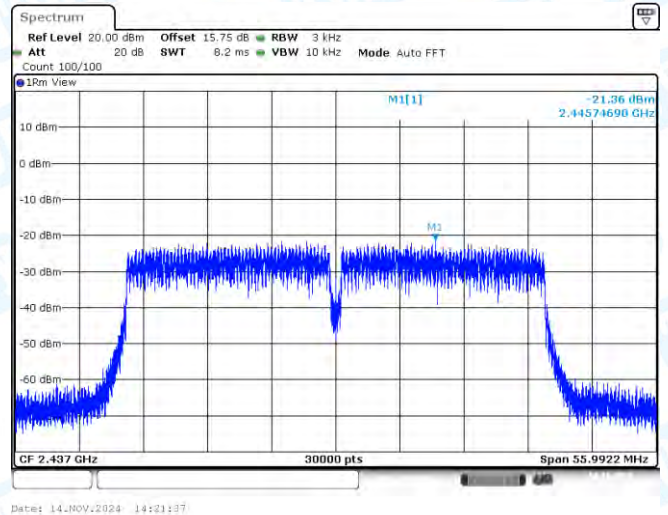
11N40MIMO-Ant1-2422-PASS



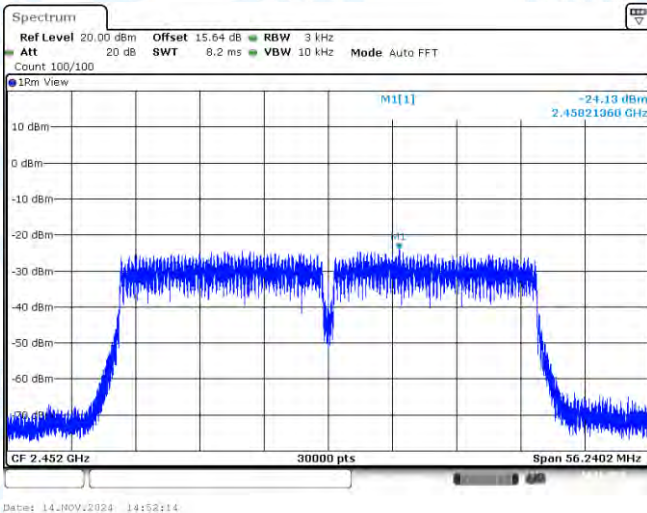
11N40MIMO-Ant2-2422-PASS



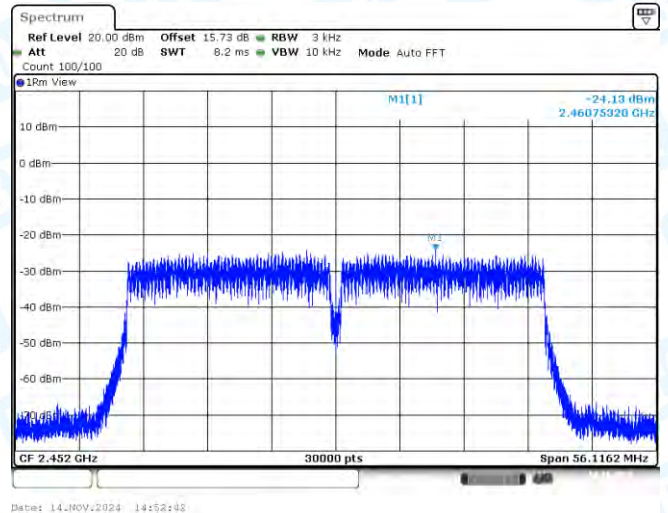
11N40MIMO-Ant1-2437-PASS



11N40MIMO-Ant2-2437-PASS



11N40MIMO-Ant1-2452-PASS



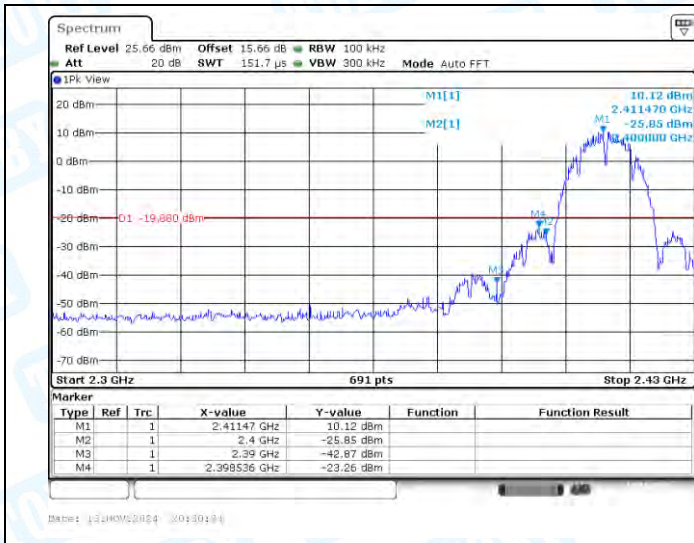
11N40MIMO-Ant2-2452-PASS

5: Band edge measurements

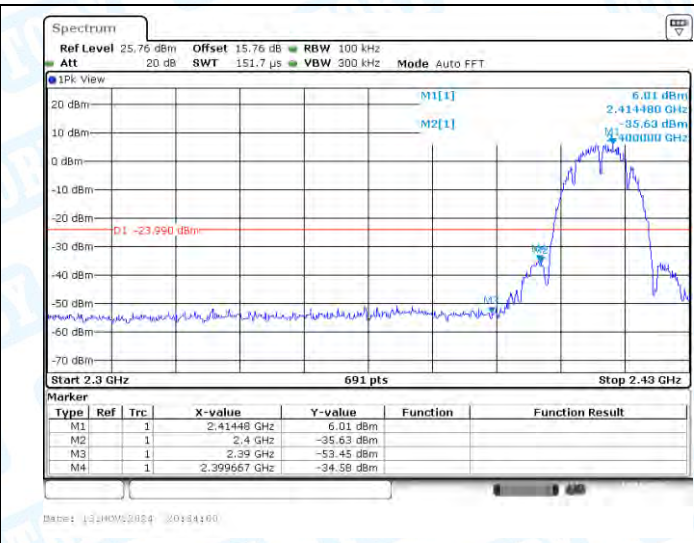
5.1 Test Result

TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant1	Low	2412	10.12	-23.26	≤-19.88	PASS
11B-CDD	Ant2	Low	2412	6.01	-34.58	≤-23.99	PASS
11B-CDD	Ant1	High	2462	8.13	-47.17	≤-21.87	PASS
11B-CDD	Ant2	High	2462	9.04	-48.58	≤-20.96	PASS
11G-CDD	Ant1	Low	2412	6.78	-26.79	≤-23.22	PASS
11G-CDD	Ant2	Low	2412	2.01	-38.77	≤-27.99	PASS
11G-CDD	Ant1	High	2462	2.44	-36.32	≤-27.56	PASS
11G-CDD	Ant2	High	2462	0.99	-50.06	≤-29.01	PASS
11N20MIMO	Ant1	Low	2412	1.61	-36.9	≤-28.39	PASS
11N20MIMO	Ant2	Low	2412	-0.96	-40.01	≤-30.96	PASS
11N20MIMO	Ant1	High	2462	4.12	-37.85	≤-25.88	PASS
11N20MIMO	Ant2	High	2462	-0.09	-50.74	≤-30.09	PASS
11N40MIMO	Ant1	Low	2422	-0.26	-38.81	≤-30.26	PASS
11N40MIMO	Ant2	Low	2422	-1.88	-45.03	≤-31.88	PASS
11N40MIMO	Ant1	High	2452	-2.85	-46.64	≤-32.85	PASS
11N40MIMO	Ant2	High	2452	-4.13	-50.97	≤-34.13	PASS

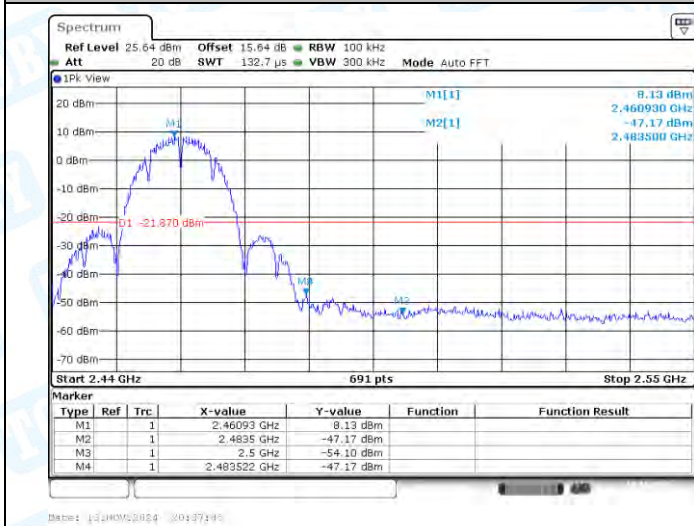
5.2 Test Graphs



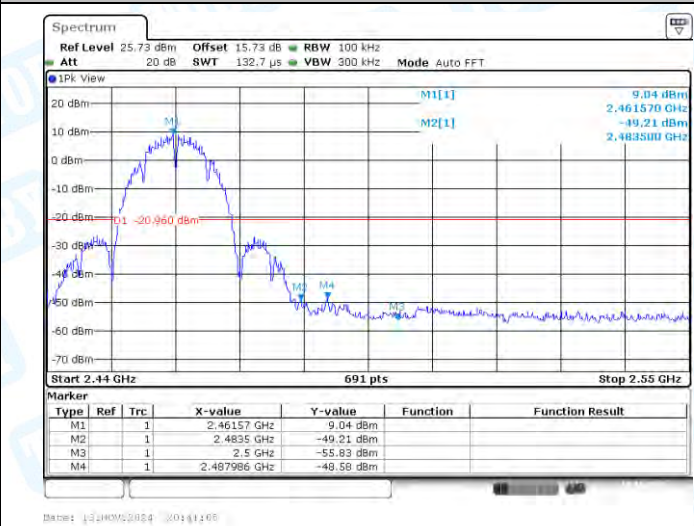
11B-CDD-Ant1-2412-PASS



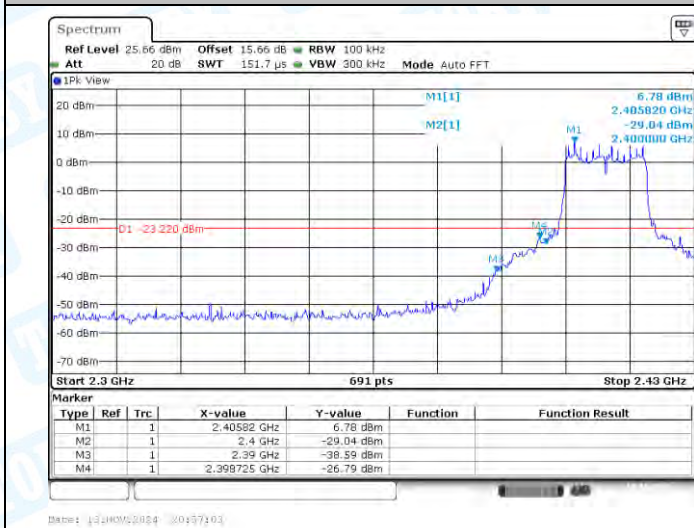
11B-CDD-Ant2-2412-PASS



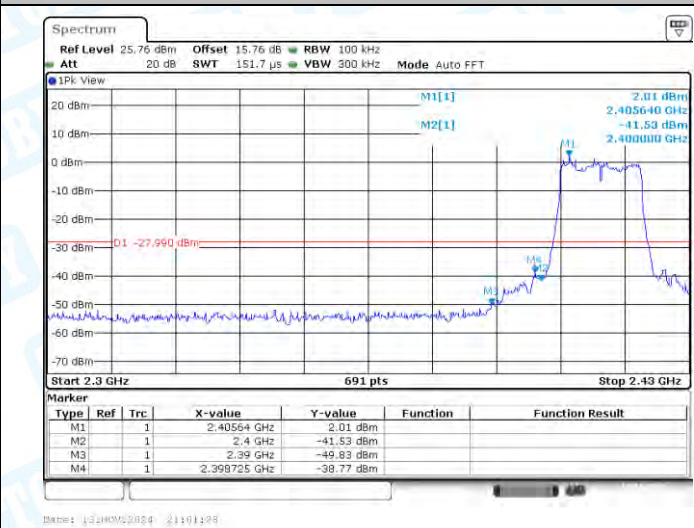
11B-CDD-Ant1-2462-PASS



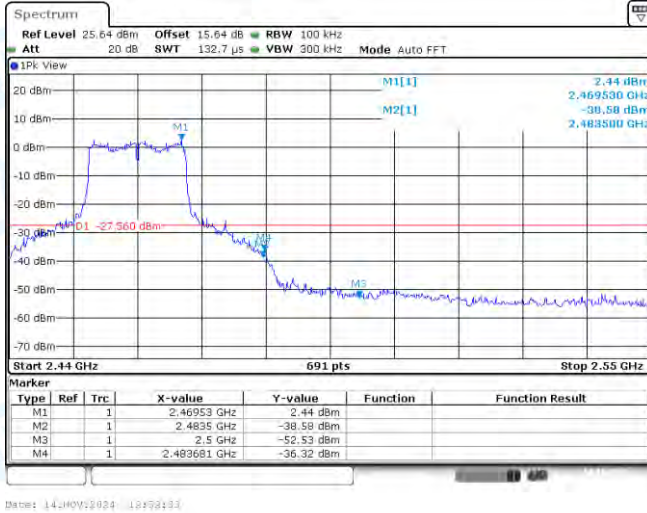
11B-CDD-Ant2-2462-PASS



11G-CDD-Ant1-2412-PASS



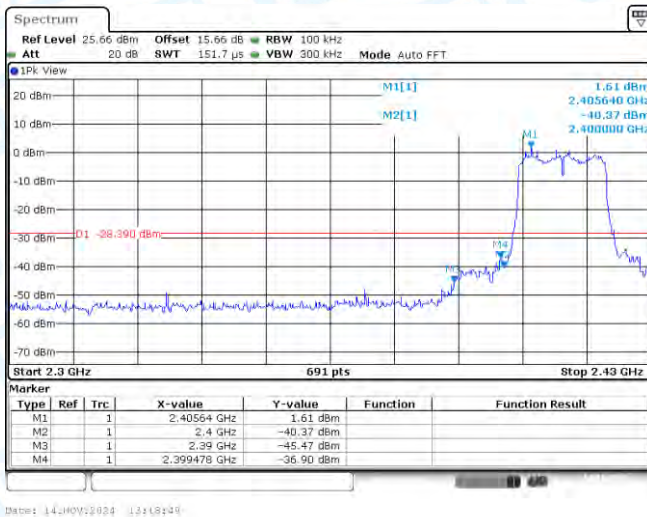
11G-CDD-Ant2-2412-PASS



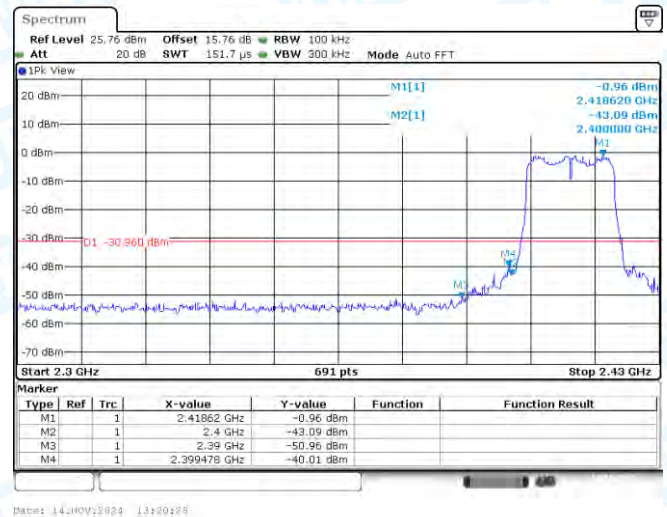
11G-CDD-Ant1-2462-PASS



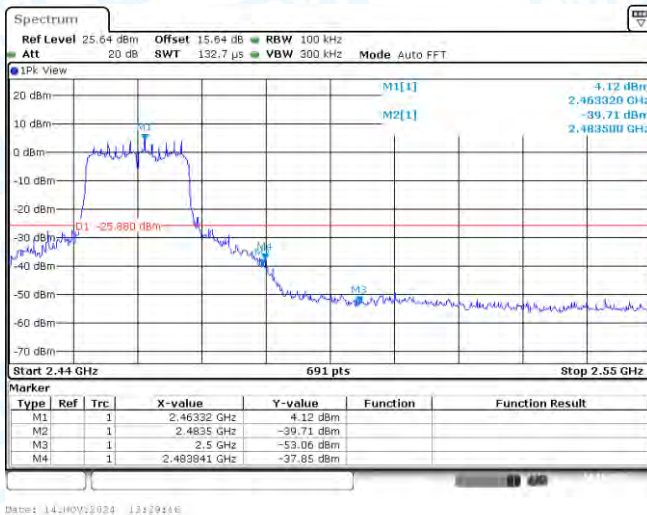
11G-CDD-Ant2-2462-PASS



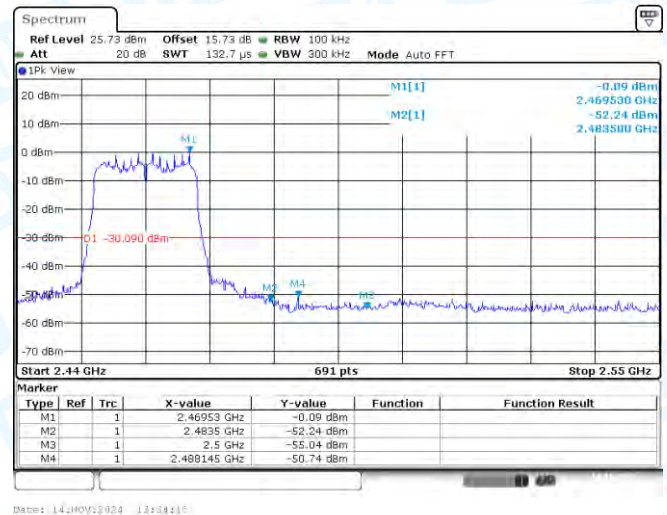
11N20MIMO-Ant1-2412-PASS



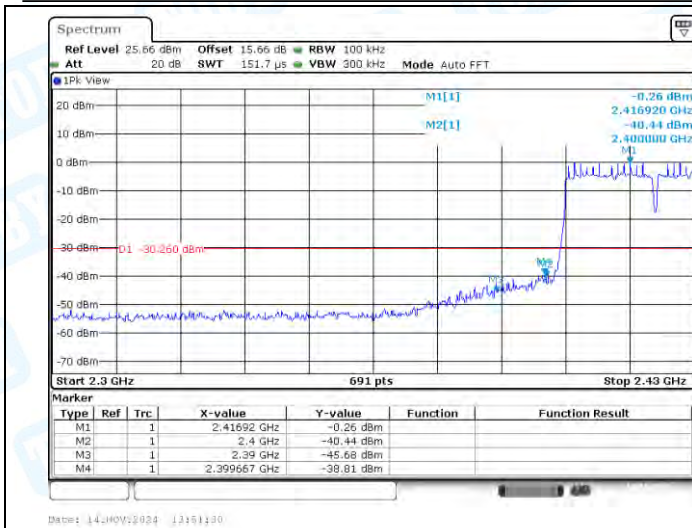
11N20MIMO-Ant2-2412-PASS



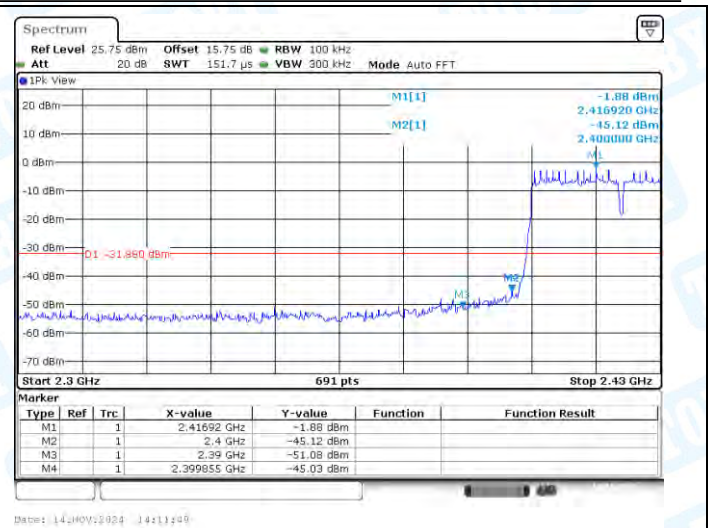
11N20MIMO-Ant1-2462-PASS



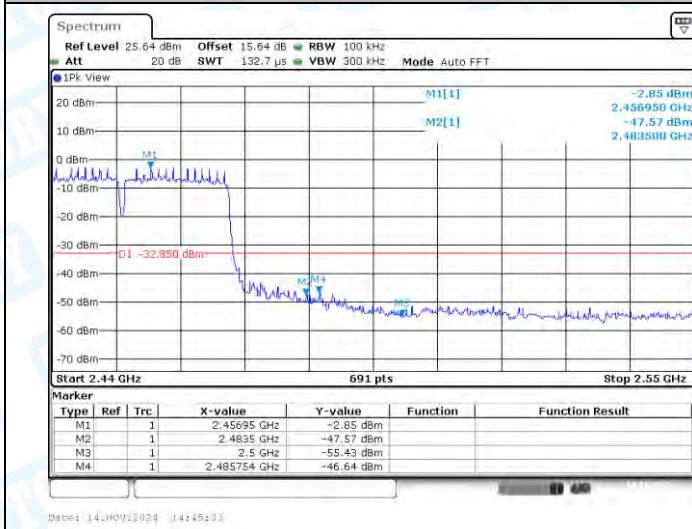
11N20MIMO-Ant2-2462-PASS



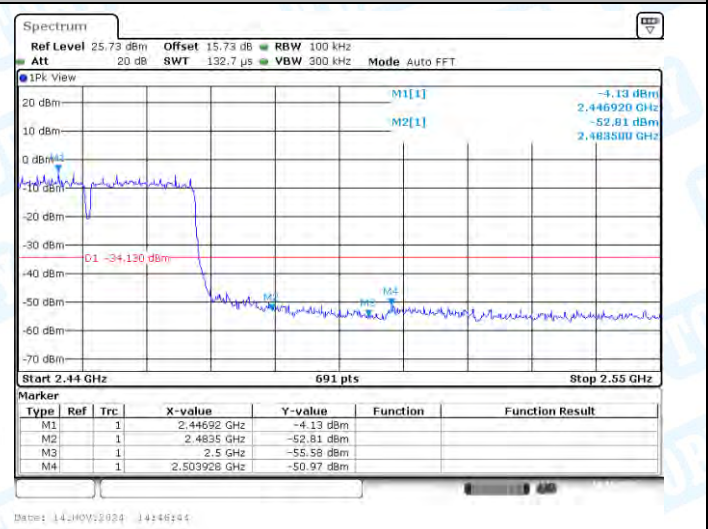
11N40MIMO-Ant1-2422-PASS



11N40MIMO-Ant2-2422-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

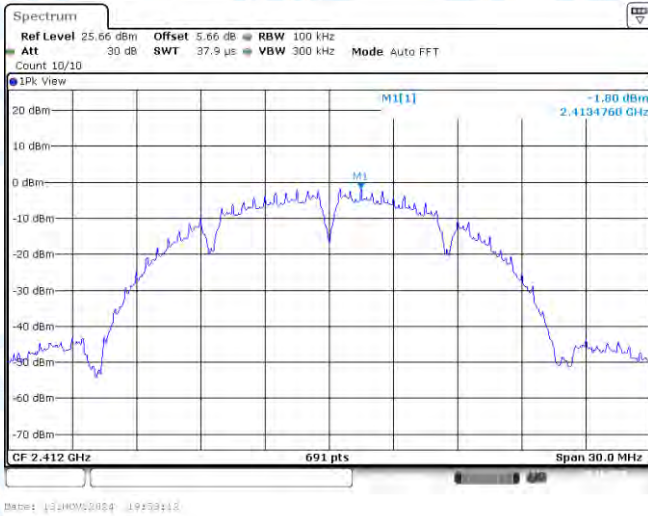
6: Conducted Spurious Emission

6.1 Test Result

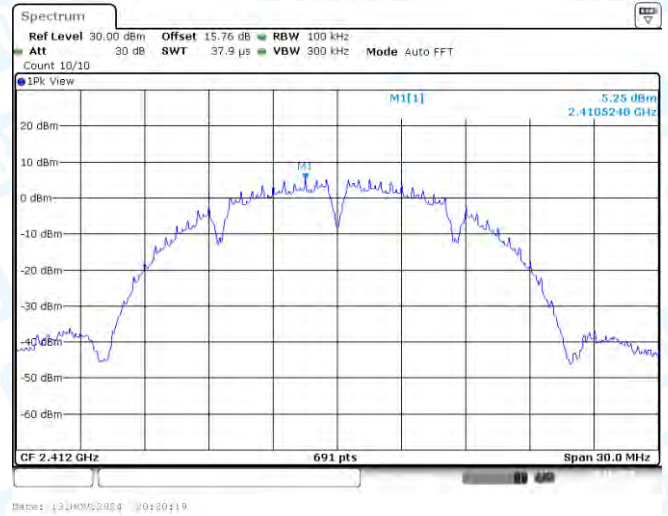
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B-CDD	Ant1	2412	0~Reference	-1.80	-1.80	---	PASS
11B-CDD	Ant2	2412	0~Reference	5.25	5.25	---	PASS
11B-CDD	Ant1	2412	30~1000	-1.80	-60.39	≤-31.8	PASS
11B-CDD	Ant2	2412	30~1000	5.25	-49.15	≤-24.75	PASS
11B-CDD	Ant1	2412	1000~26500	-1.80	-49.11	≤-31.8	PASS
11B-CDD	Ant2	2412	1000~26500	5.25	-45.57	≤-24.75	PASS
11B-CDD	Ant1	2437	0~Reference	9.69	9.69	---	PASS
11B-CDD	Ant2	2437	0~Reference	9.50	9.50	---	PASS
11B-CDD	Ant1	2437	30~1000	9.69	-50.73	≤-20.31	PASS
11B-CDD	Ant2	2437	30~1000	9.50	-50.84	≤-20.5	PASS
11B-CDD	Ant1	2437	1000~26500	9.69	-45.07	≤-20.31	PASS
11B-CDD	Ant2	2437	1000~26500	9.50	-45.22	≤-20.5	PASS
11B-CDD	Ant1	2462	0~Reference	9.17	9.17	---	PASS
11B-CDD	Ant2	2462	0~Reference	8.84	8.84	---	PASS
11B-CDD	Ant1	2462	30~1000	9.17	-51.28	≤-20.83	PASS
11B-CDD	Ant2	2462	30~1000	8.84	-50.73	≤-21.16	PASS
11B-CDD	Ant1	2462	1000~26500	9.17	-45.62	≤-20.83	PASS
11B-CDD	Ant2	2462	1000~26500	8.84	-43.98	≤-21.16	PASS
11G-CDD	Ant1	2412	0~Reference	4.44	4.44	---	PASS
11G-CDD	Ant2	2412	0~Reference	3.37	3.37	---	PASS
11G-CDD	Ant1	2412	30~1000	4.44	-48.75	≤-25.56	PASS
11G-CDD	Ant2	2412	30~1000	3.37	-50.16	≤-26.63	PASS
11G-CDD	Ant1	2412	1000~26500	4.44	-44.87	≤-25.56	PASS
11G-CDD	Ant2	2412	1000~26500	3.37	-45.24	≤-26.63	PASS
11G-CDD	Ant1	2437	0~Reference	6.10	6.10	---	PASS
11G-CDD	Ant2	2437	0~Reference	5.36	5.36	---	PASS
11G-CDD	Ant1	2437	30~1000	6.10	-48.56	≤-23.9	PASS
11G-CDD	Ant2	2437	30~1000	5.36	-50.84	≤-24.64	PASS
11G-CDD	Ant1	2437	1000~26500	6.10	-44.96	≤-23.9	PASS
11G-CDD	Ant2	2437	1000~26500	5.36	-45.43	≤-24.64	PASS
11G-CDD	Ant1	2462	0~Reference	1.37	1.37	---	PASS
11G-CDD	Ant2	2462	0~Reference	1.01	1.01	---	PASS
11G-CDD	Ant1	2462	30~1000	1.37	-49.15	≤-28.63	PASS
11G-CDD	Ant2	2462	30~1000	1.01	-50.42	≤-28.99	PASS
11G-CDD	Ant1	2462	1000~26500	1.37	-45.28	≤-28.63	PASS
11G-CDD	Ant2	2462	1000~26500	1.01	-45.01	≤-28.99	PASS
11N20MIMO	Ant1	2412	0~Reference	-0.35	-0.35	---	PASS
11N20MIMO	Ant2	2412	0~Reference	0.58	0.58	---	PASS
11N20MIMO	Ant1	2412	30~1000	-0.35	-48.48	≤-30.35	PASS
11N20MIMO	Ant2	2412	30~1000	0.58	-50.6	≤-29.42	PASS

11N20MIMO	Ant1	2412	1000~26500	-0.35	-44.43	≤-30.35	PASS
11N20MIMO	Ant2	2412	1000~26500	0.58	-45.67	≤-29.42	PASS
11N20MIMO	Ant1	2437	0~Reference	4.28	4.28	---	PASS
11N20MIMO	Ant2	2437	0~Reference	3.29	3.29	---	PASS
11N20MIMO	Ant1	2437	30~1000	4.28	-47.23	≤-25.72	PASS
11N20MIMO	Ant2	2437	30~1000	3.29	-50.69	≤-26.71	PASS
11N20MIMO	Ant1	2437	1000~26500	4.28	-45.87	≤-25.72	PASS
11N20MIMO	Ant2	2437	1000~26500	3.29	-45.83	≤-26.71	PASS
11N20MIMO	Ant1	2462	0~Reference	3.91	3.91	---	PASS
11N20MIMO	Ant2	2462	0~Reference	0.07	0.07	---	PASS
11N20MIMO	Ant1	2462	30~1000	3.91	-49.67	≤-26.09	PASS
11N20MIMO	Ant2	2462	30~1000	0.07	-49.26	≤-29.93	PASS
11N20MIMO	Ant1	2462	1000~26500	3.91	-45.82	≤-26.09	PASS
11N20MIMO	Ant2	2462	1000~26500	0.07	-45.09	≤-29.93	PASS
11N40MIMO	Ant1	2422	0~Reference	-0.94	-0.94	---	PASS
11N40MIMO	Ant2	2422	0~Reference	-1.68	-1.68	---	PASS
11N40MIMO	Ant1	2422	30~1000	-0.94	-48.15	≤-30.94	PASS
11N40MIMO	Ant2	2422	30~1000	-1.68	-48.67	≤-31.68	PASS
11N40MIMO	Ant1	2422	1000~26500	-0.94	-45.44	≤-30.94	PASS
11N40MIMO	Ant2	2422	1000~26500	-1.68	-45.71	≤-31.68	PASS
11N40MIMO	Ant1	2437	0~Reference	0.53	0.53	---	PASS
11N40MIMO	Ant2	2437	0~Reference	-0.02	-0.02	---	PASS
11N40MIMO	Ant1	2437	30~1000	0.53	-48.61	≤-29.47	PASS
11N40MIMO	Ant2	2437	30~1000	-0.02	-48.69	≤-30.02	PASS
11N40MIMO	Ant1	2437	1000~26500	0.53	-45.74	≤-29.47	PASS
11N40MIMO	Ant2	2437	1000~26500	-0.02	-44.75	≤-30.02	PASS
11N40MIMO	Ant1	2452	0~Reference	0.30	0.30	---	PASS
11N40MIMO	Ant2	2452	0~Reference	-0.37	-0.37	---	PASS
11N40MIMO	Ant1	2452	30~1000	0.30	-48.7	≤-29.7	PASS
11N40MIMO	Ant2	2452	30~1000	-0.37	-50.94	≤-30.37	PASS
11N40MIMO	Ant1	2452	1000~26500	0.30	-45.42	≤-29.7	PASS
11N40MIMO	Ant2	2452	1000~26500	-0.37	-45.73	≤-30.37	PASS

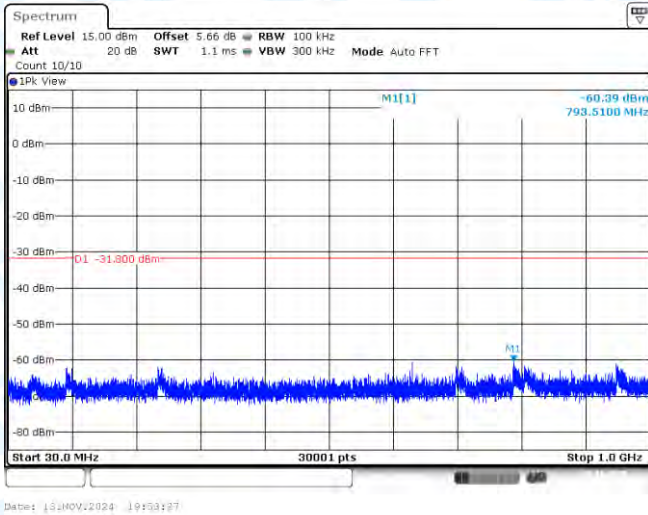
6.2 Test Graphs



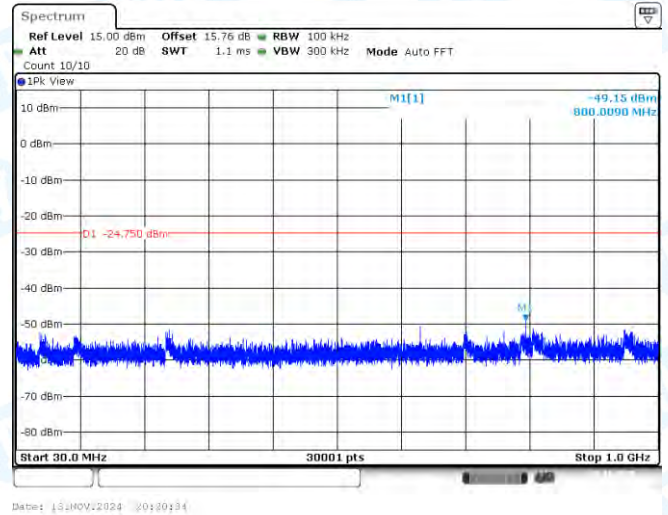
11B-CDD-Ant1-2412-0~Reference-PASS



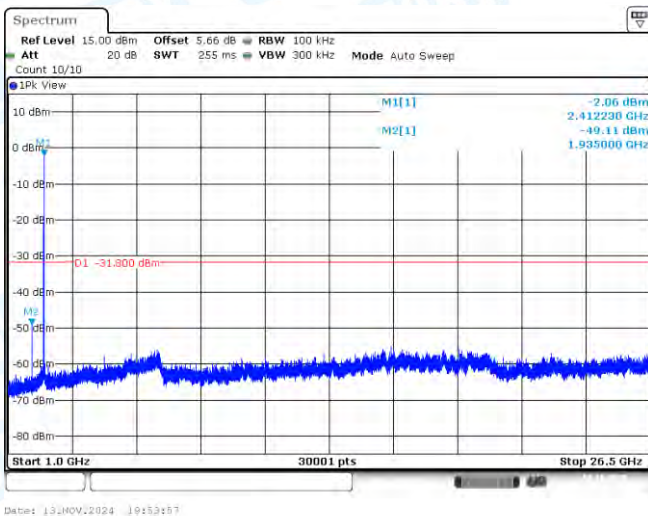
11B-CDD-Ant2-2412-0~Reference-PASS



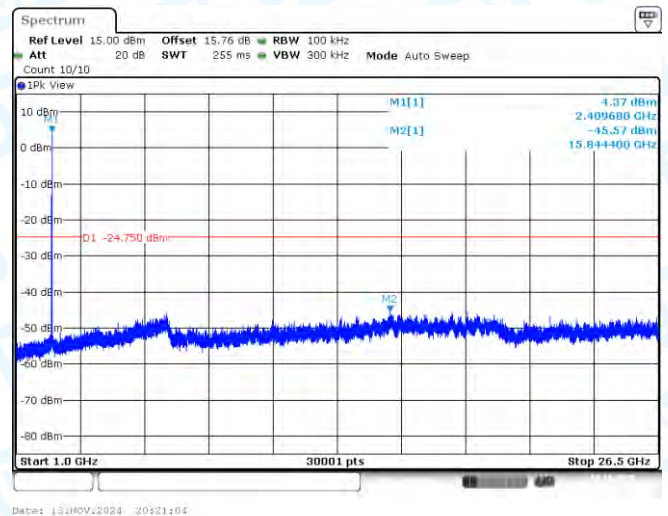
11B-CDD-Ant1-2412-30~1000-PASS



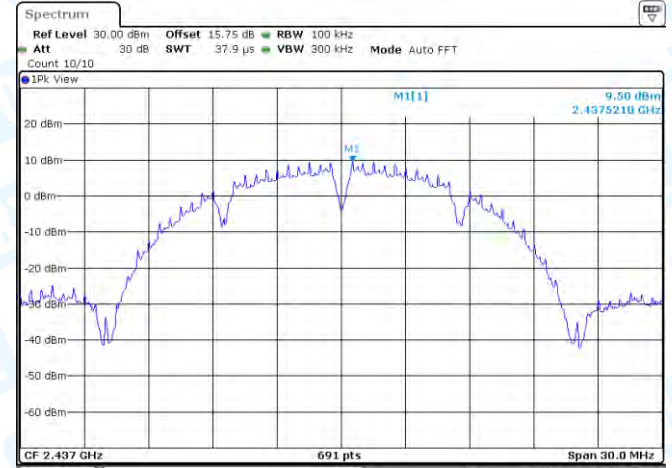
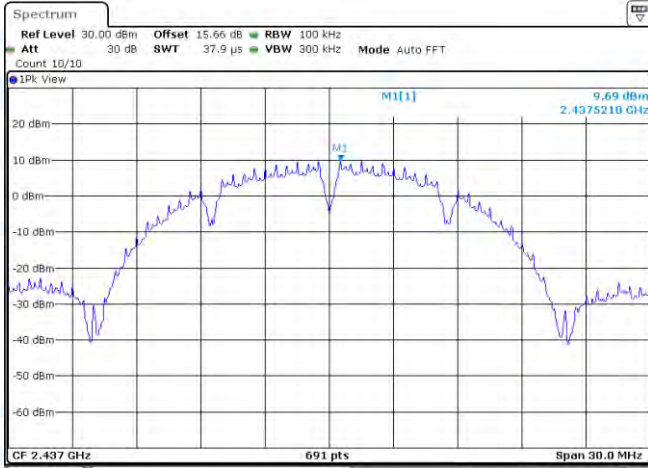
11B-CDD-Ant2-2412-30~1000-PASS



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

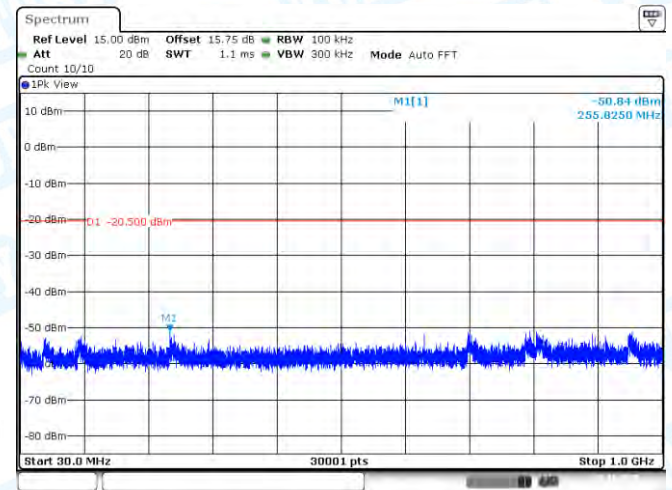
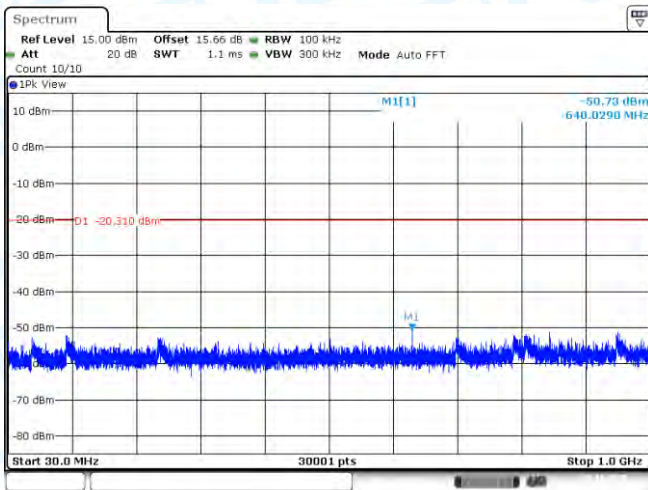


11B-CDD-Ant2-2412-1000~26500-PASS



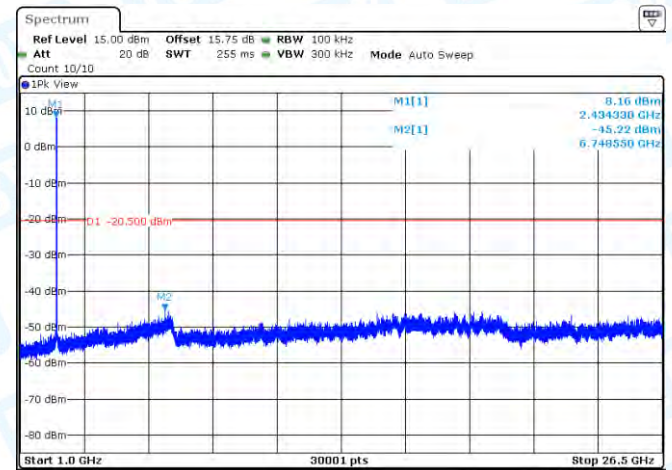
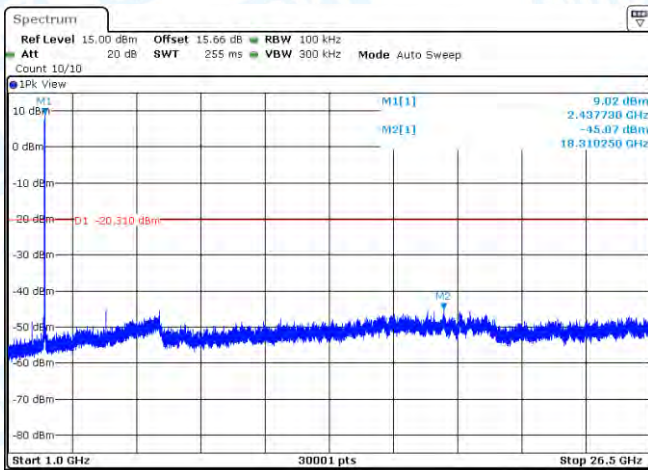
11B-CDD-Ant1-2437-0~Reference-PASS

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



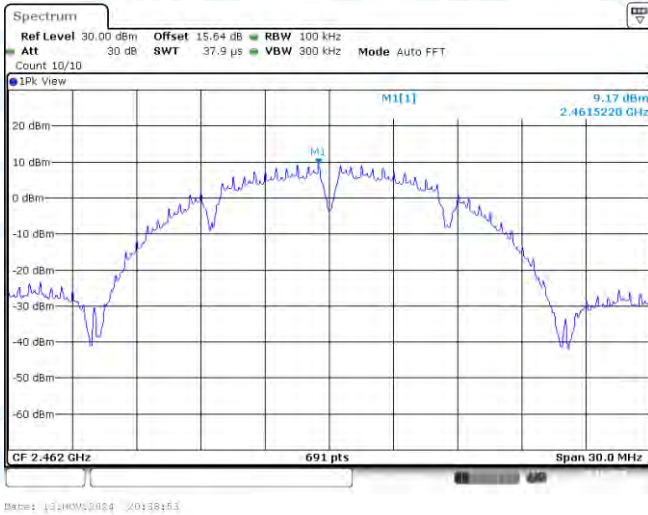
11B-CDD-Ant1-2437-30~1000-PASS

11B-CDD-Ant2-2437-30~1000-PASS

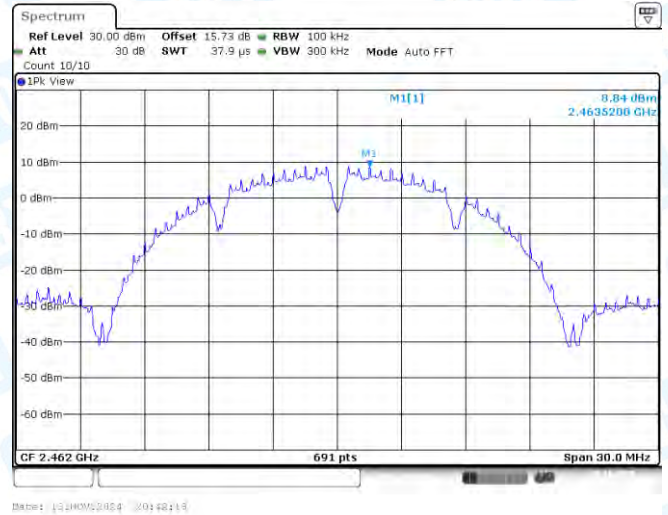


11B-CDD-Ant1-2437-1000~26500-PASS

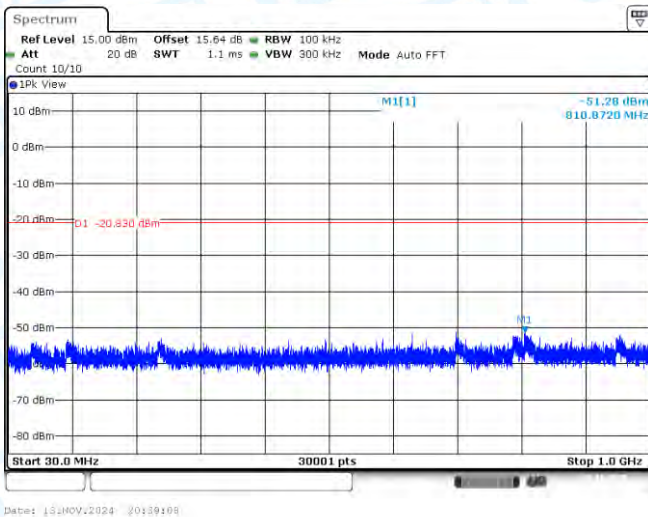
11B-CDD-Ant2-2437-1000~26500-PASS



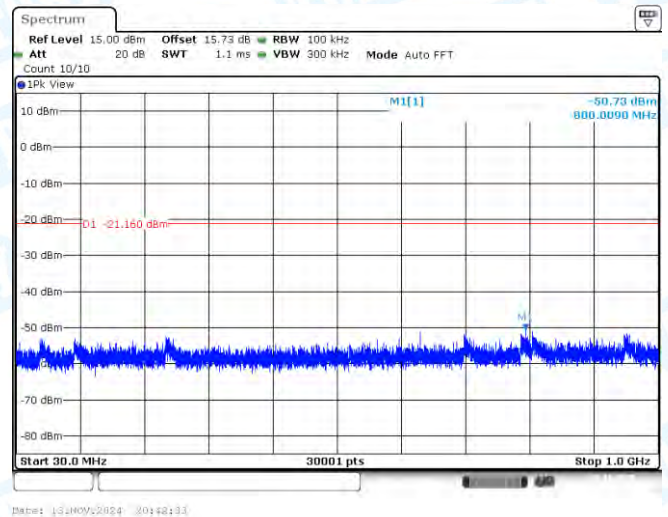
11B-CDD-Ant1-2462-0~Reference-PASS



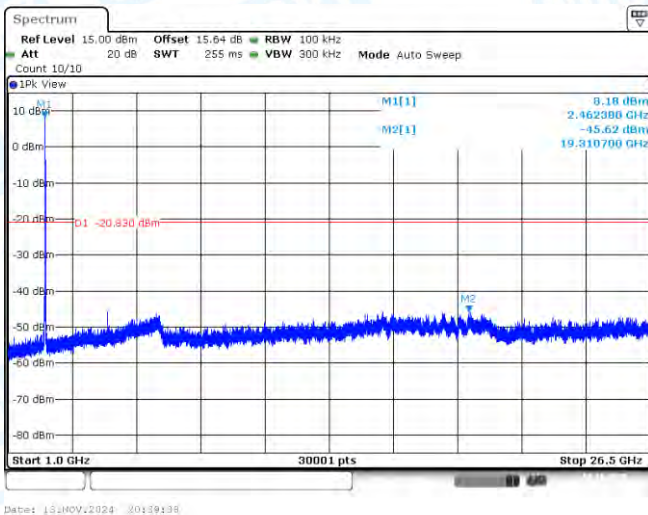
11B-CDD-Ant2-2462-0~Reference-PASS



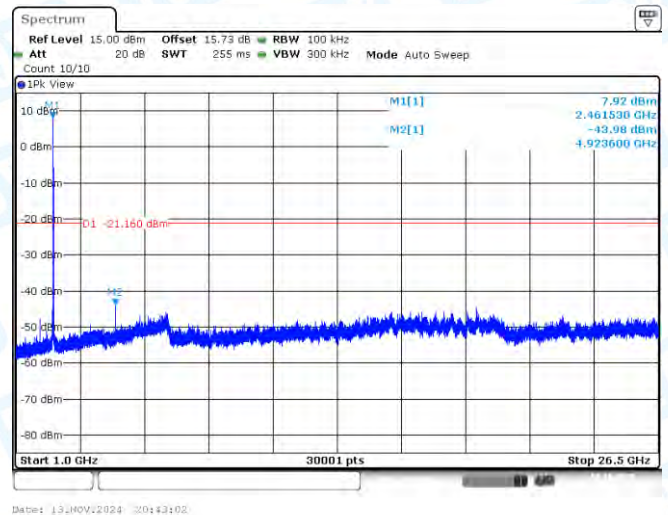
11B-CDD-Ant1-2462-30~1000-PASS



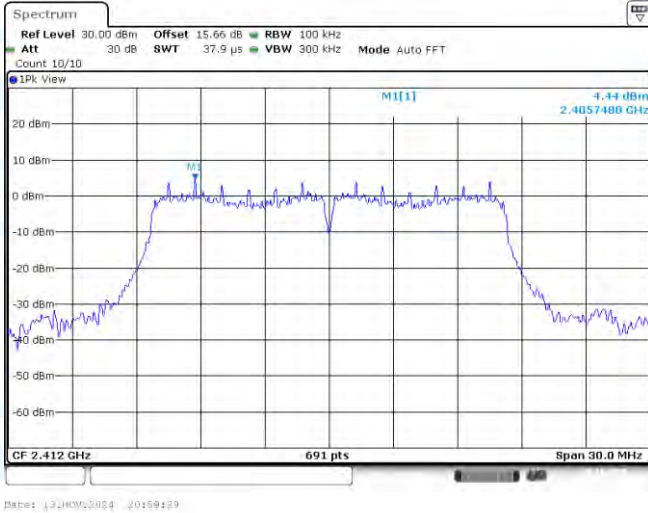
11B-CDD-Ant2-2462-30~1000-PASS



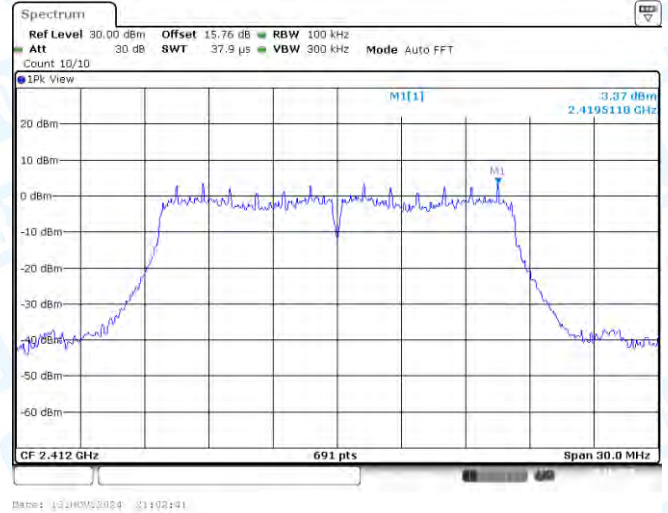
11B-CDD-Ant1-2462-1000~26500-PASS



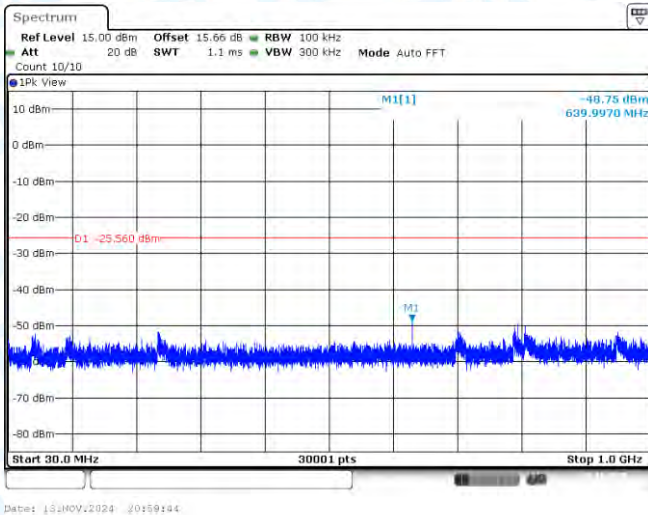
11B-CDD-Ant2-2462-1000~26500-PASS



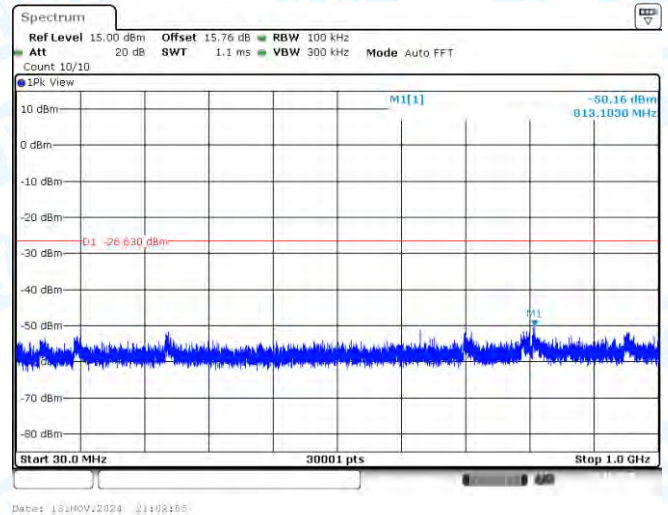
11G-CDD-Ant1-2412-0~Reference-PASS



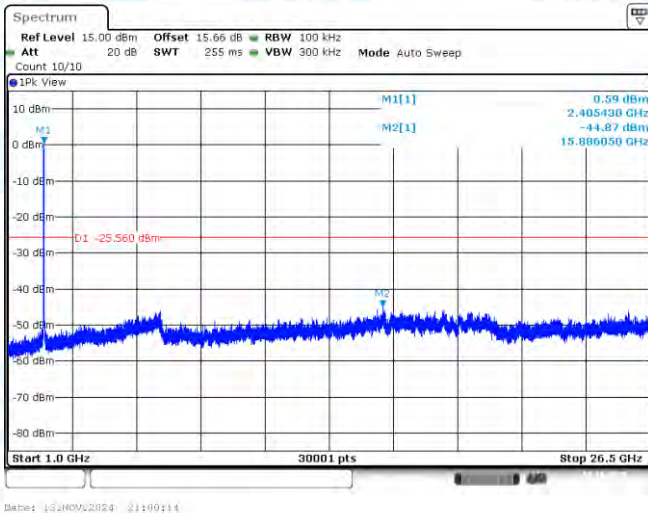
11G-CDD-Ant2-2412-0~Reference-PASS



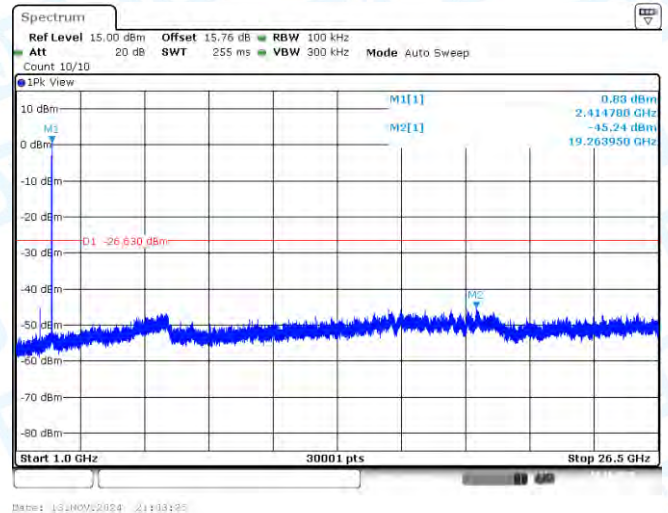
11G-CDD-Ant1-2412-30~1000-PASS



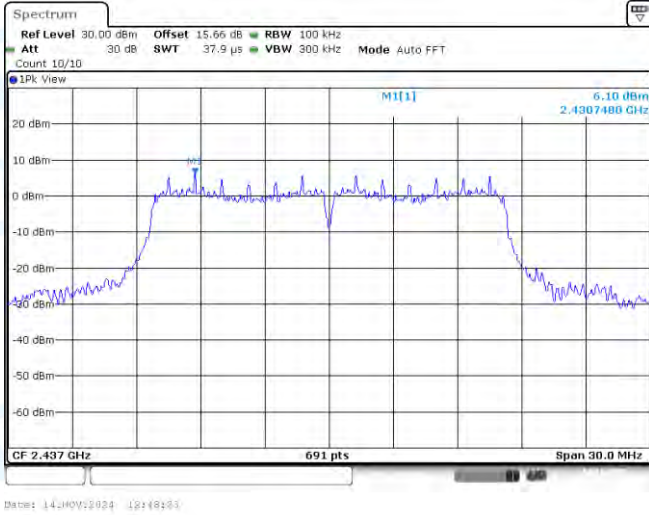
11G-CDD-Ant2-2412-30~1000-PASS



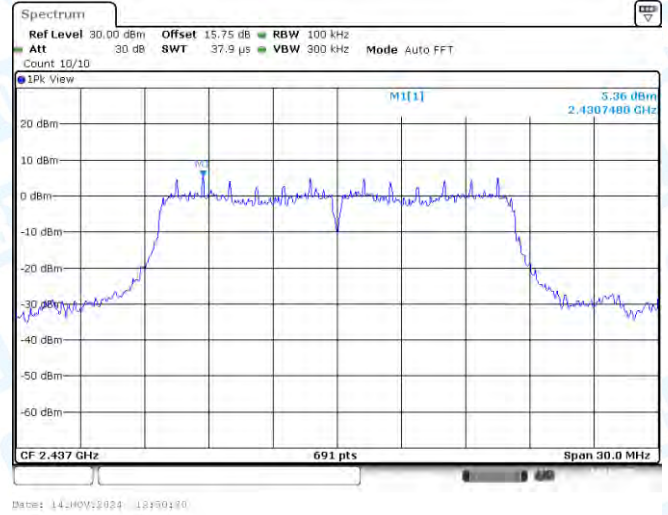
11G-CDD-Ant1-2412-1000~26500-PASS



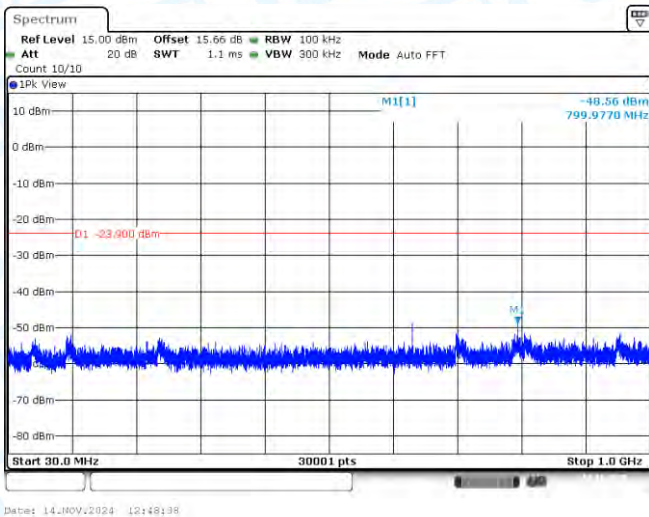
11G-CDD-Ant2-2412-1000~26500-PASS



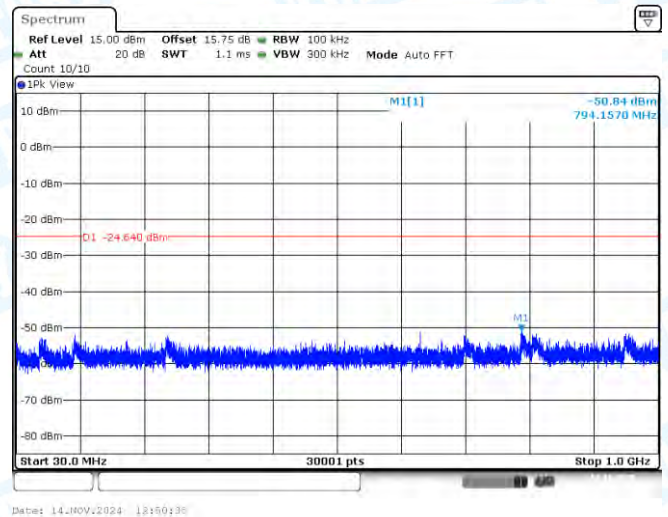
11G-CDD-Ant1-2437-0~Reference-PASS



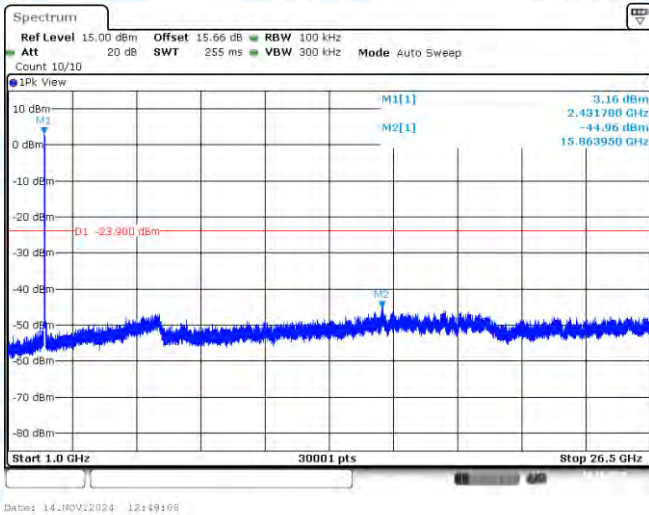
11G-CDD-Ant2-2437-0~Reference-PASS



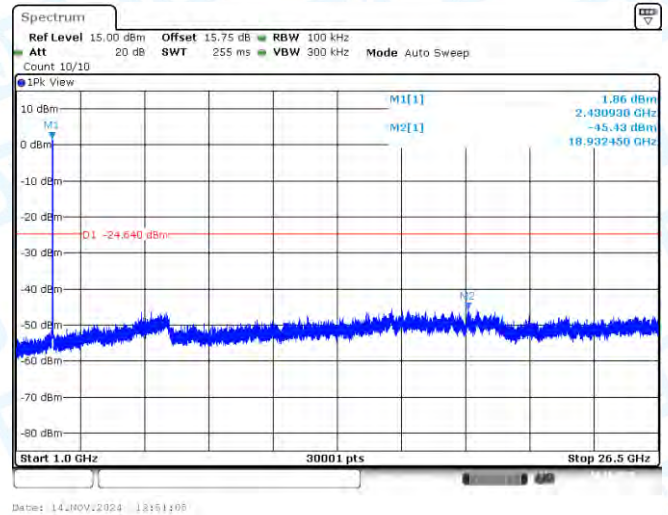
11G-CDD-Ant1-2437-30~1000-PASS



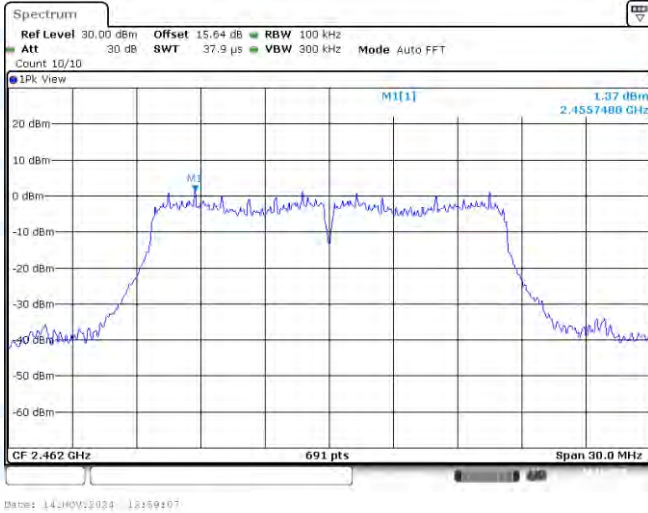
11G-CDD-Ant2-2437-30~1000-PASS



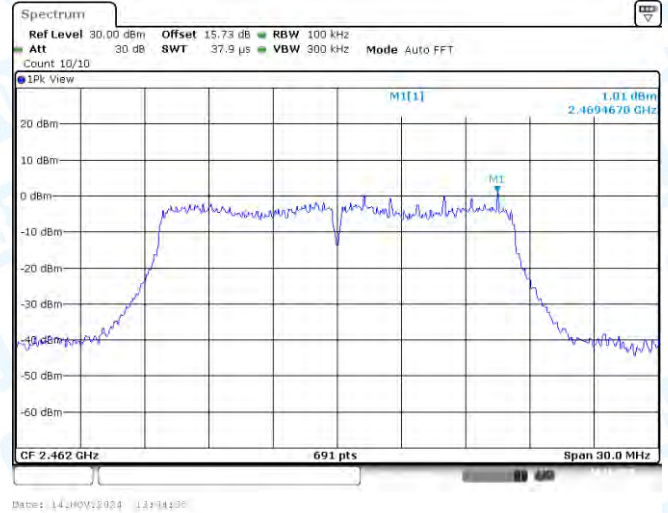
11G-CDD-Ant1-2437-1000~26500-PASS



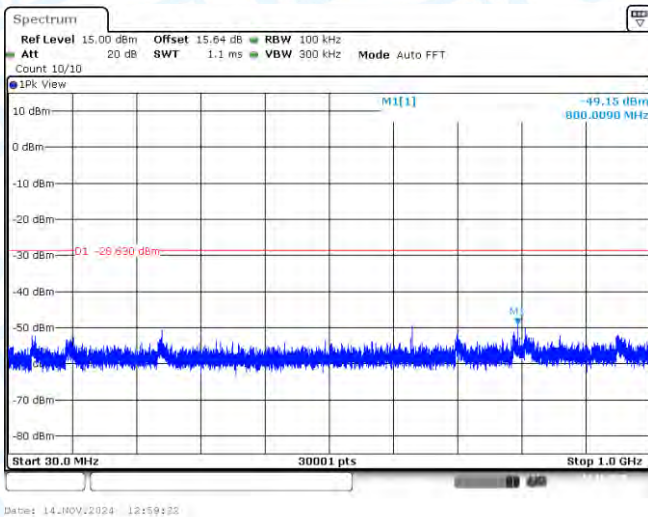
11G-CDD-Ant2-2437-1000~26500-PASS



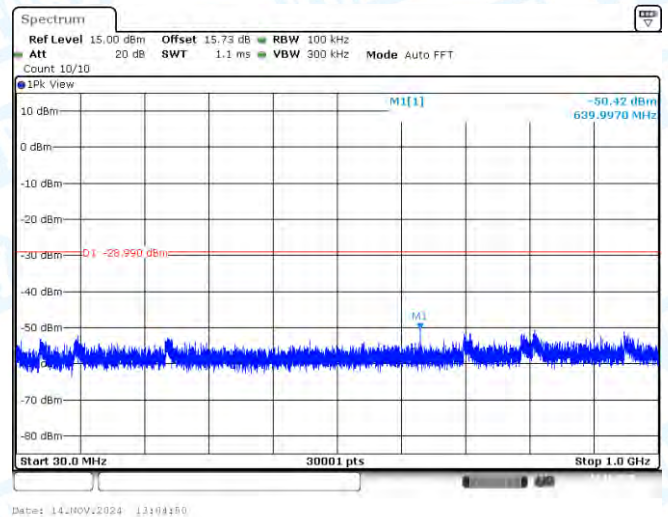
11G-CDD-Ant1-2462-0~Reference-PASS



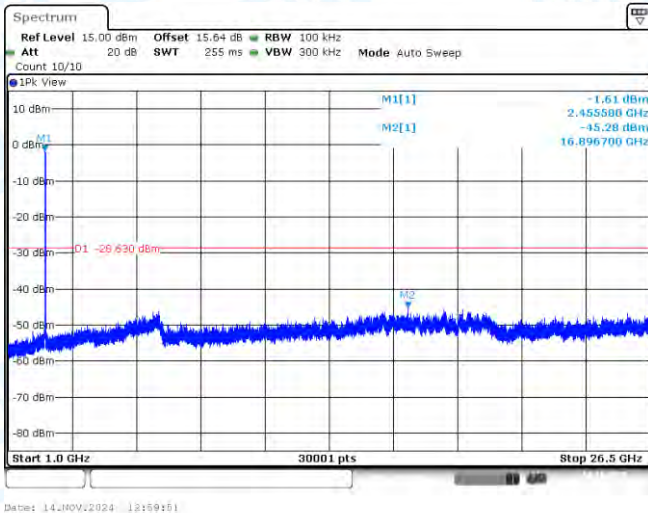
11G-CDD-Ant2-2462-0~Reference-PASS



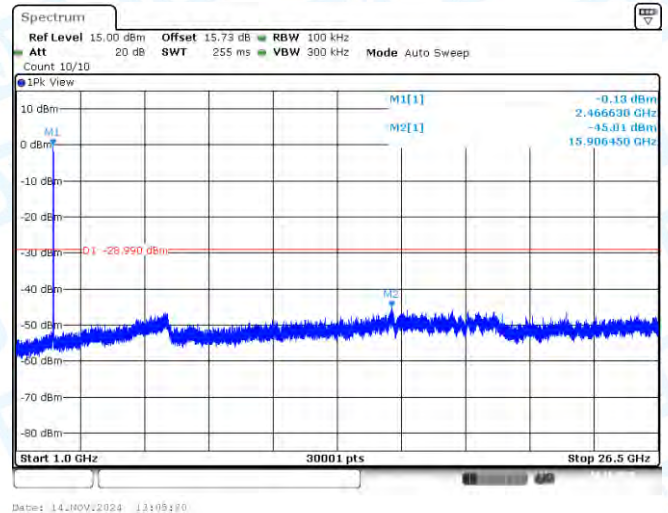
11G-CDD-Ant1-2462-30~1000-PASS



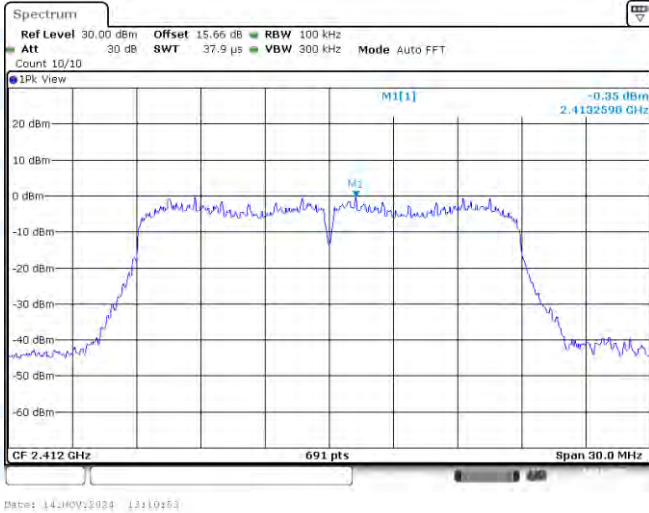
11G-CDD-Ant2-2462-30~1000-PASS



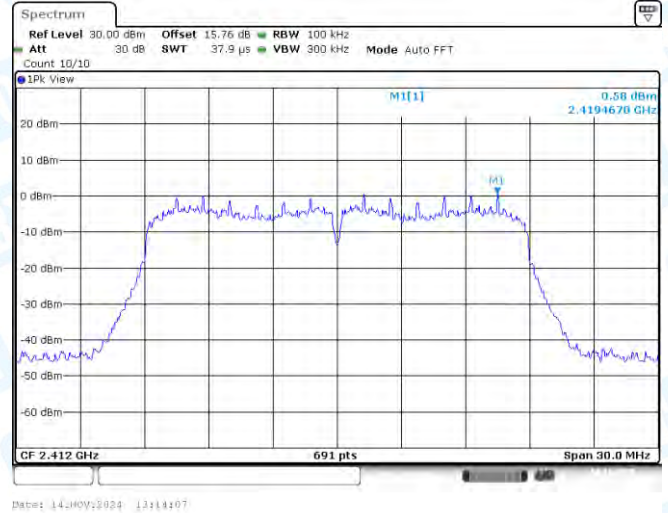
11G-CDD-Ant1-2462-1000~26500-PASS



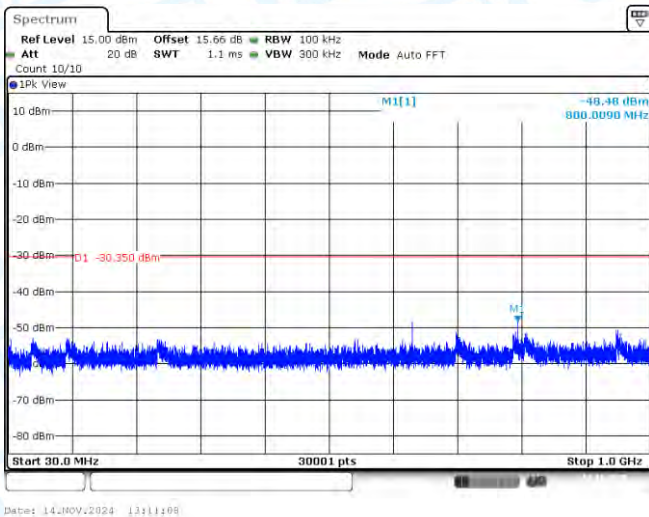
11G-CDD-Ant2-2462-1000~26500-PASS



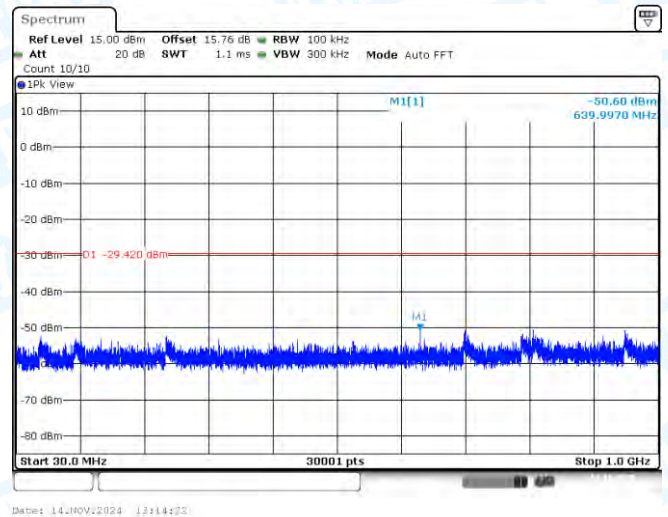
11N20MIMO-Ant1-2412-0~Reference-PASS



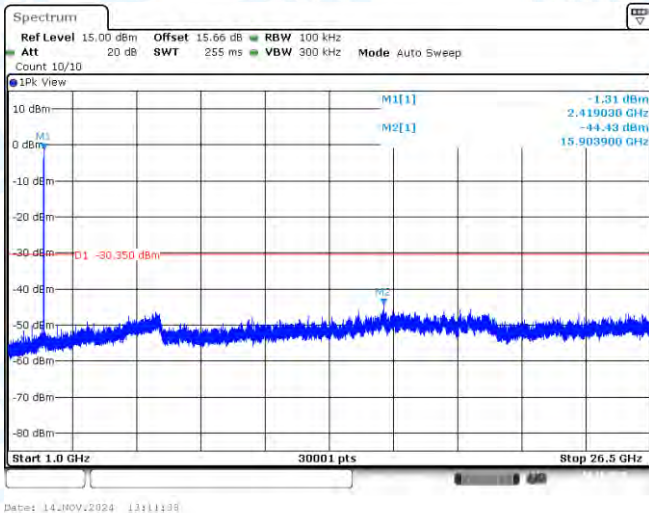
11N20MIMO-Ant2-2412-0~Reference-PASS



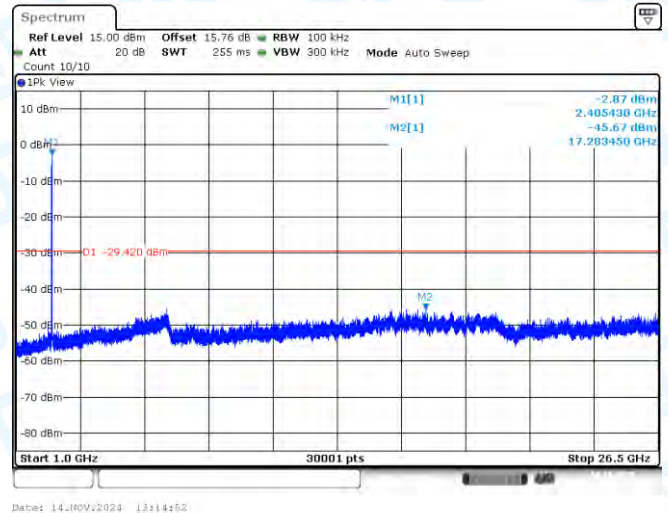
11N20MIMO-Ant1-2412-30~1000-PASS



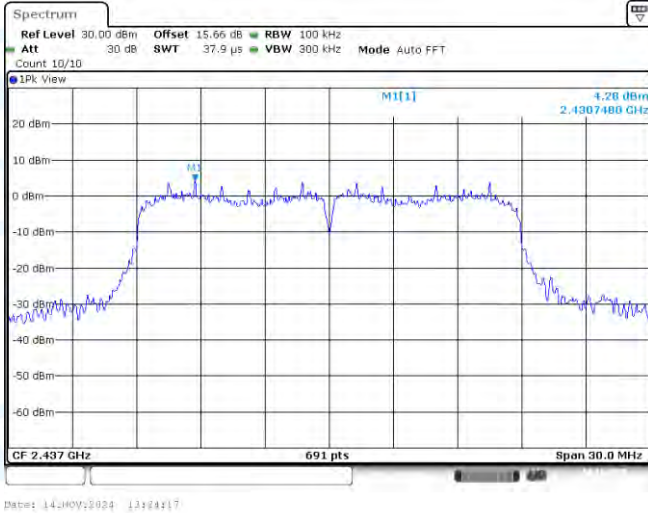
11N20MIMO-Ant2-2412-30~1000-PASS



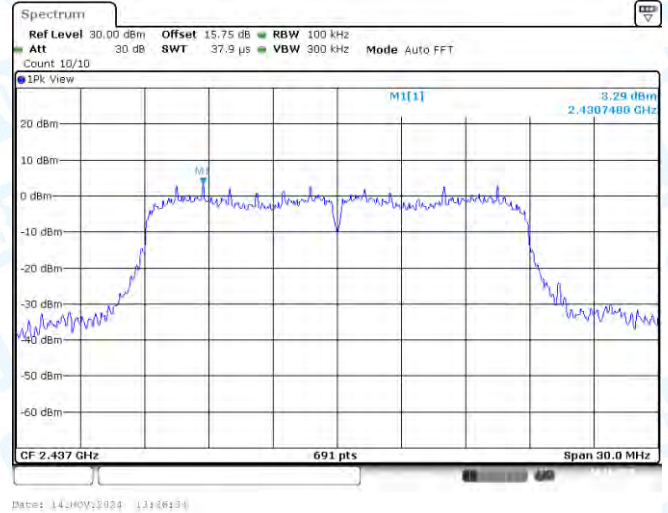
11N20MIMO-Ant1-2412-1000~26500-PASS



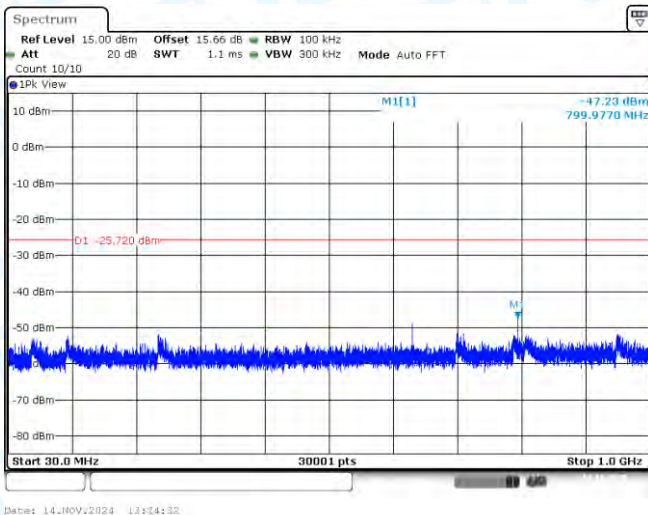
11N20MIMO-Ant2-2412-1000~26500-PASS



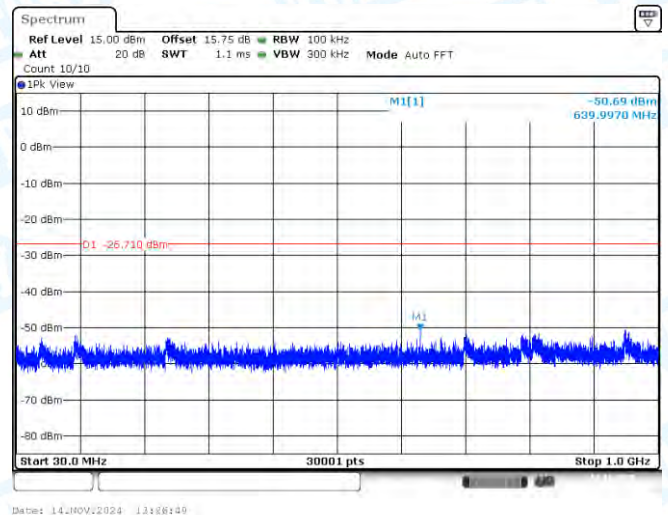
11N20MIMO-Ant1-2437-0~Reference-PASS



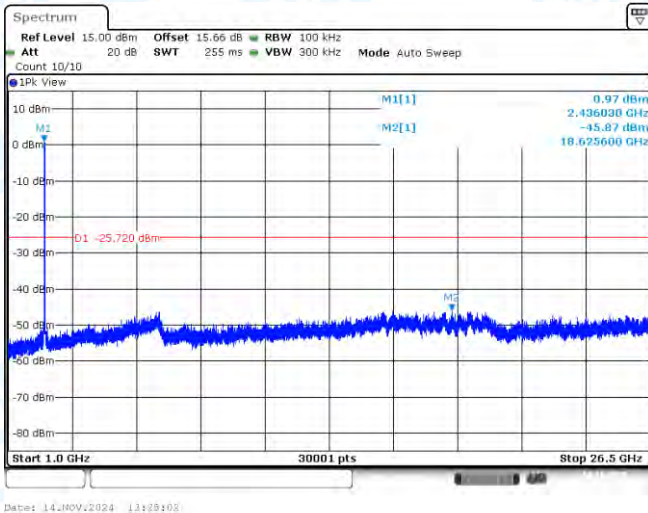
11N20MIMO-Ant2-2437-0~Reference-PASS



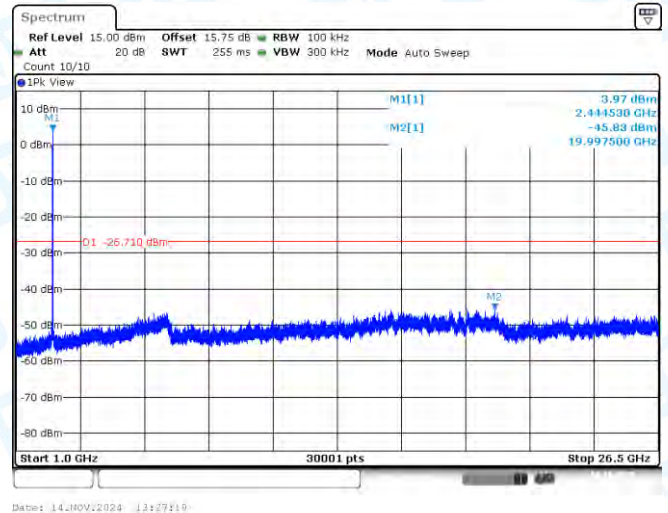
11N20MIMO-Ant1-2437-30~1000-PASS



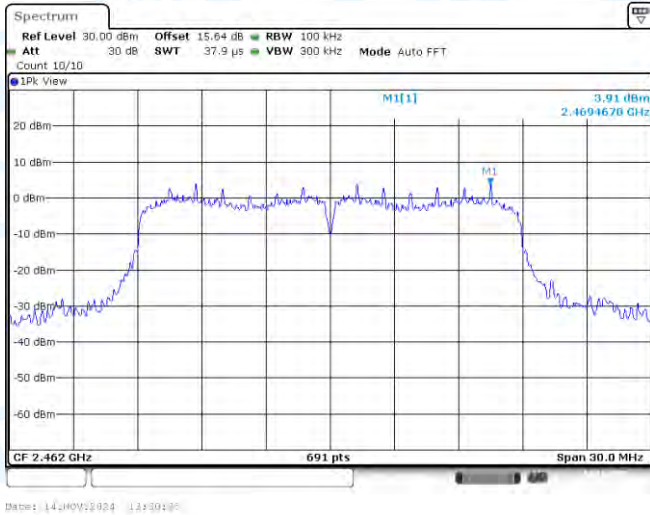
11N20MIMO-Ant2-2437-30~1000-PASS



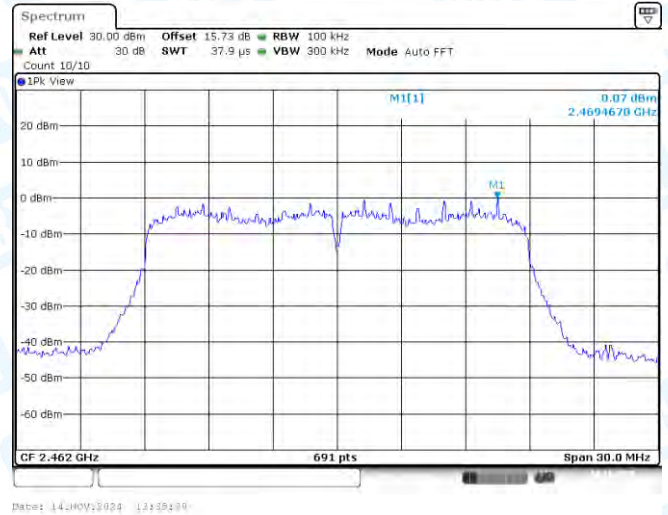
11N20MIMO-Ant1-2437-1000~26500-PASS



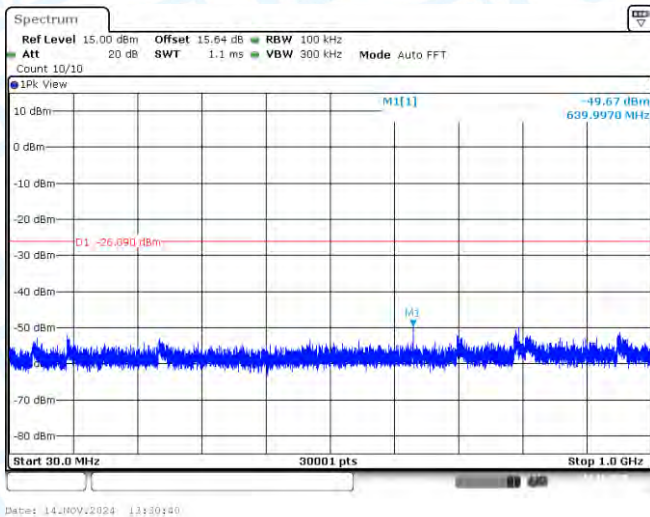
11N20MIMO-Ant2-2437-1000~26500-PASS



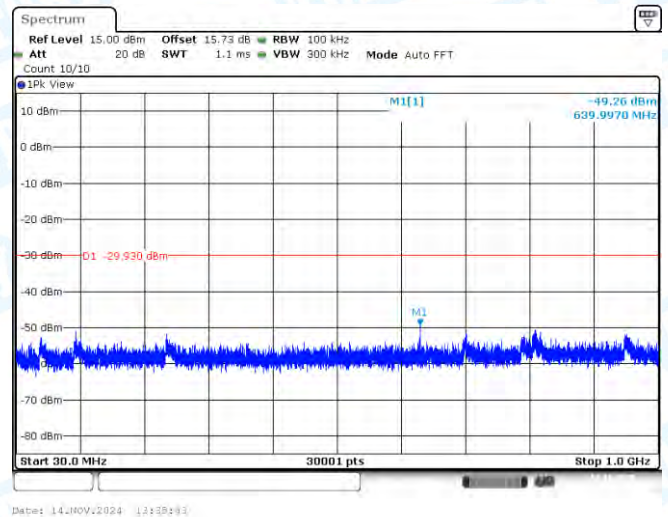
11N20MIMO-Ant1-2462-0~Reference-PASS



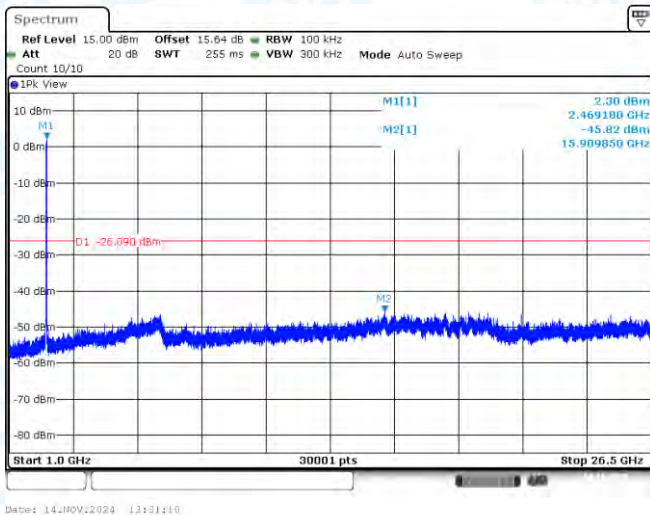
11N20MIMO-Ant2-2462-0~Reference-PASS



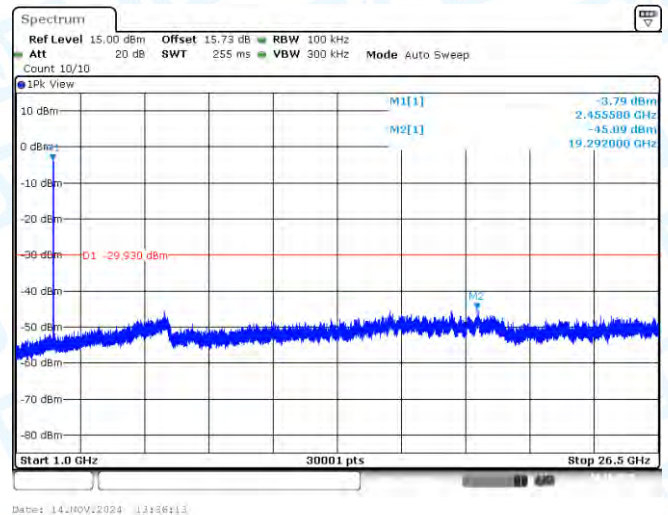
11N20MIMO-Ant1-2462-30~1000-PASS



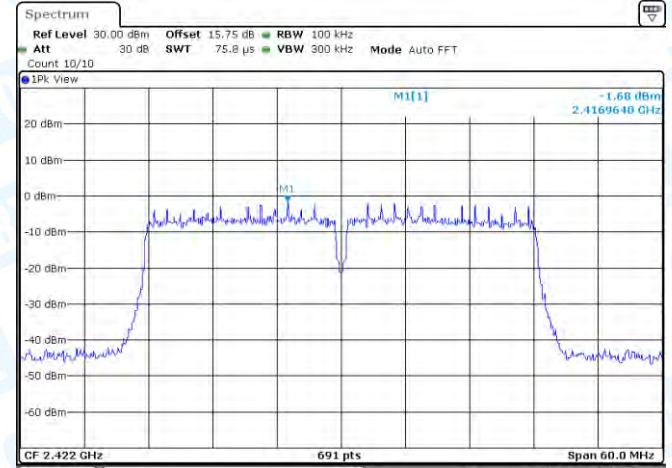
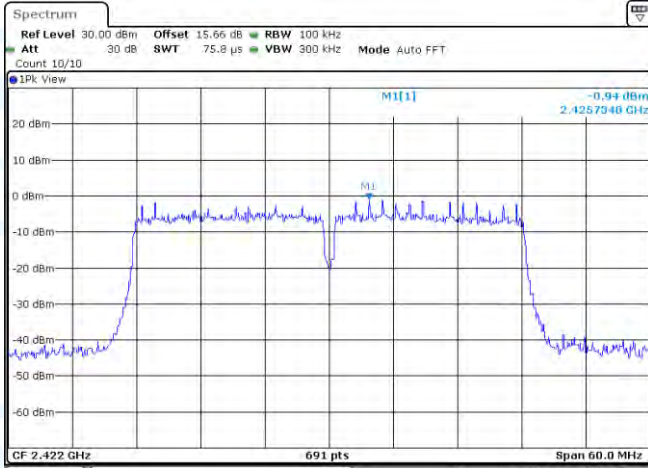
11N20MIMO-Ant2-2462-30~1000-PASS



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

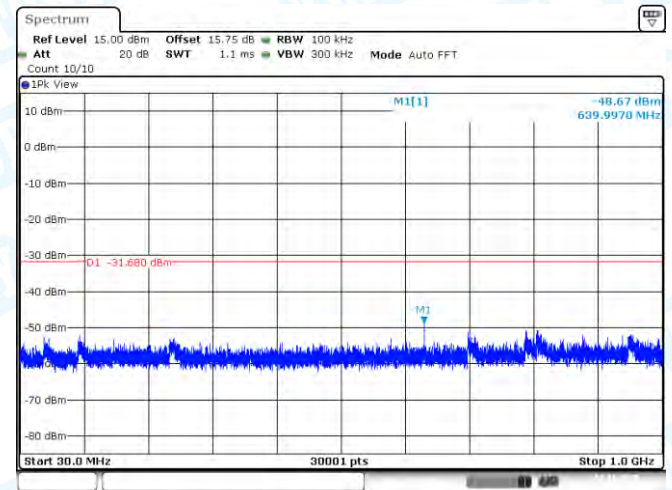
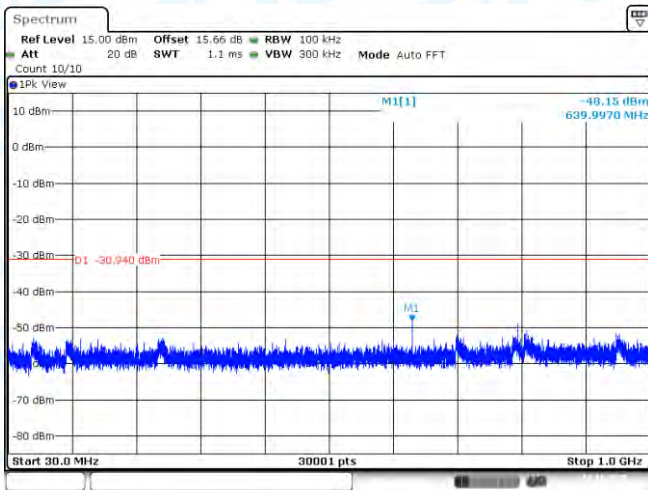


11N20MIMO-Ant2-2462-1000~26500-PASS



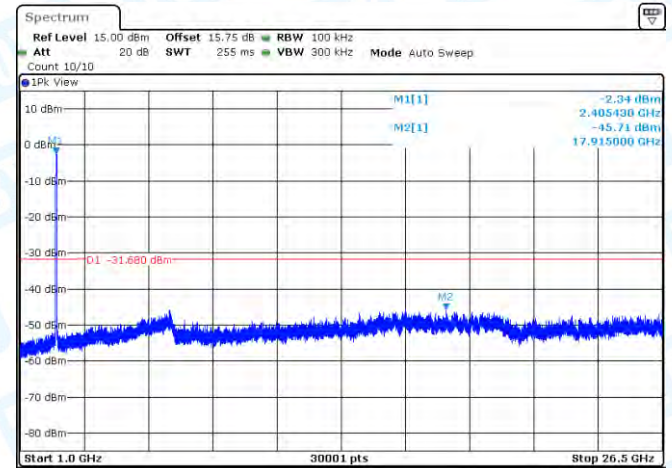
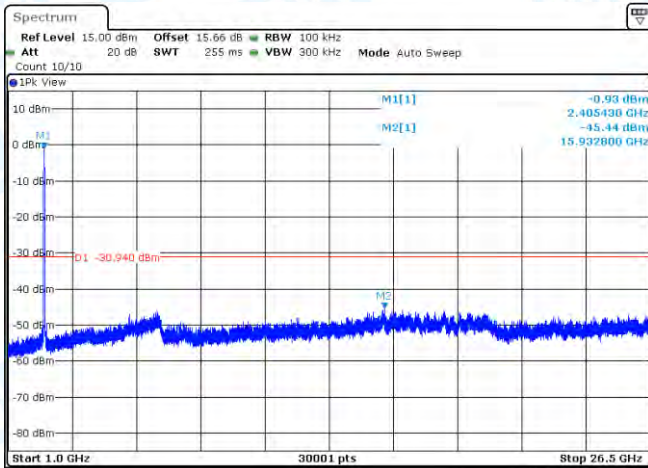
11N40MIMO-Ant1-2422-0~Reference-PASS

11N40MIMO-Ant2-2422-0~Reference-PASS



11N40MIMO-Ant1-2422-30~1000-PASS

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

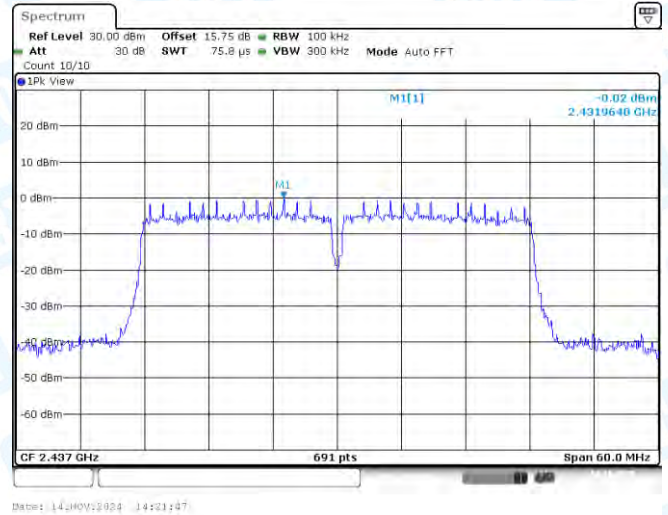


11N40MIMO-Ant1-2422-1000~26500-PASS

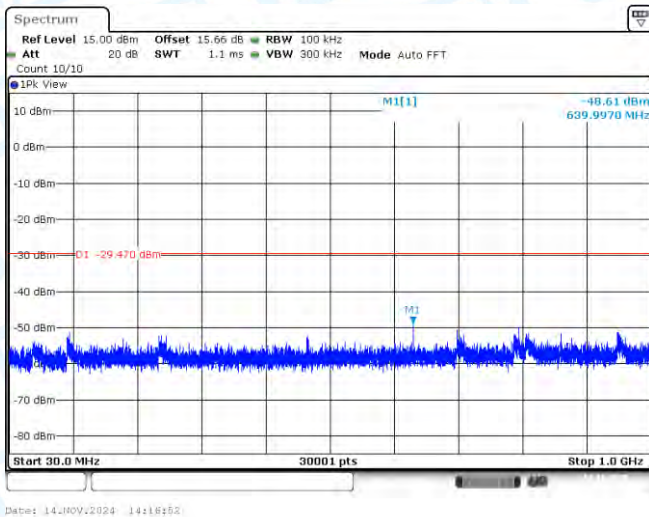
11N40MIMO-Ant2-2422-1000~26500-PASS



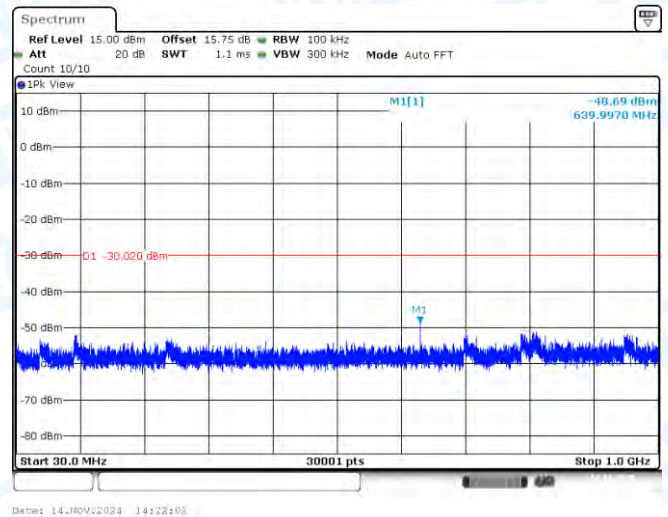
11N40MIMO-Ant1-2437-0~Reference-PASS



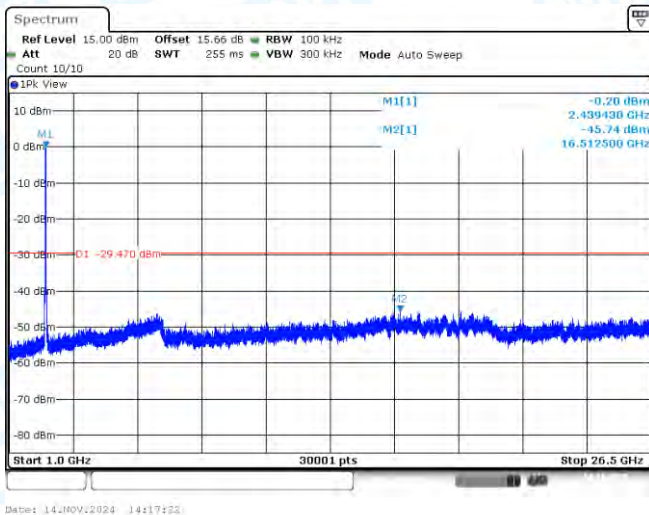
11N40MIMO-Ant2-2437-0~Reference-PASS



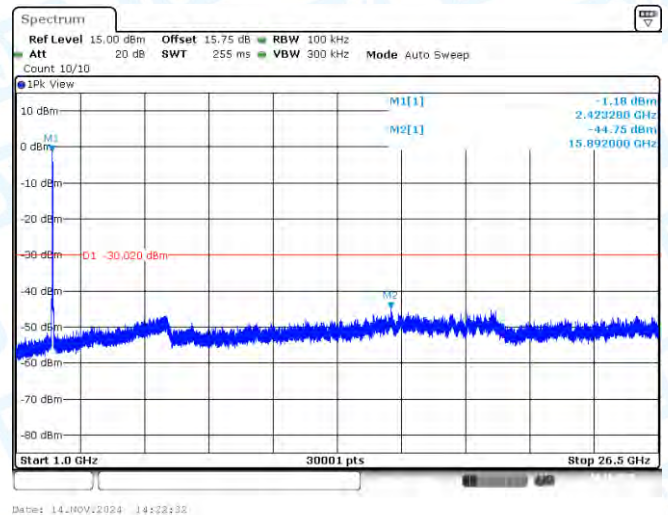
11N40MIMO-Ant1-2437-30~1000-PASS



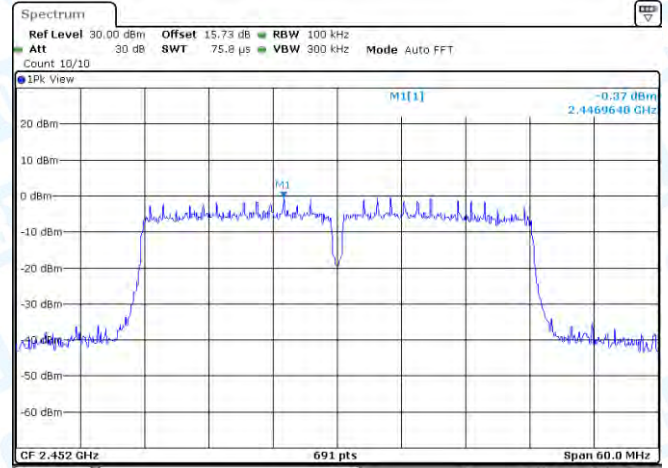
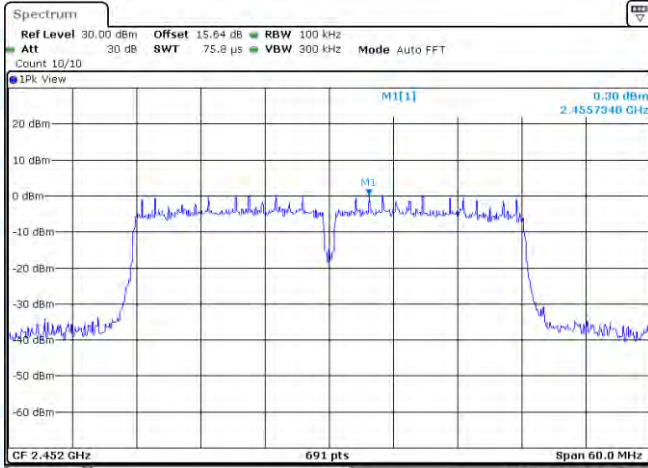
11N40MIMO-Ant2-2437-30~1000-PASS



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

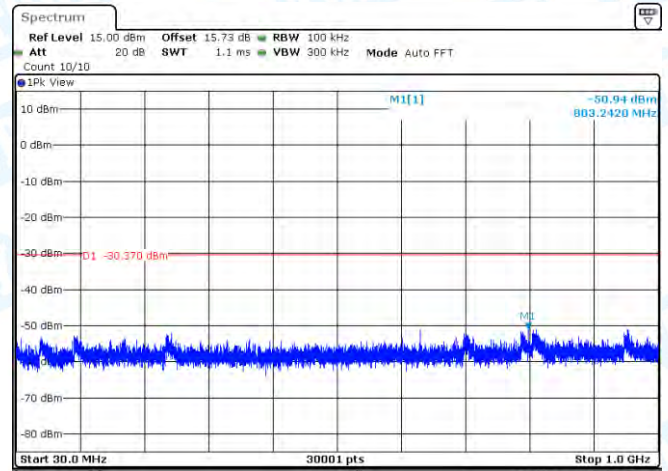
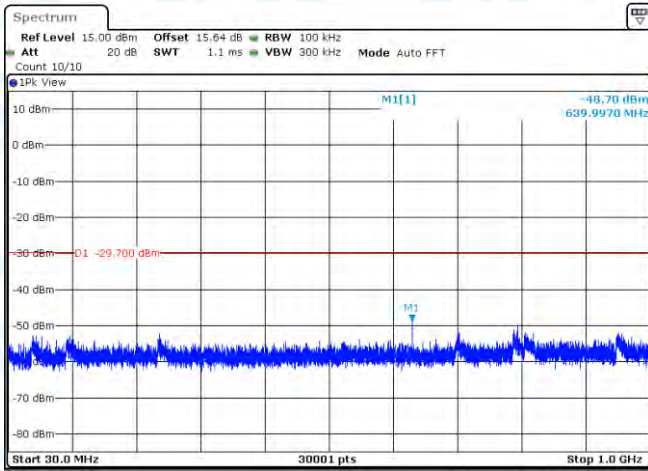


11N40MIMO-Ant2-2437-1000~26500-PASS



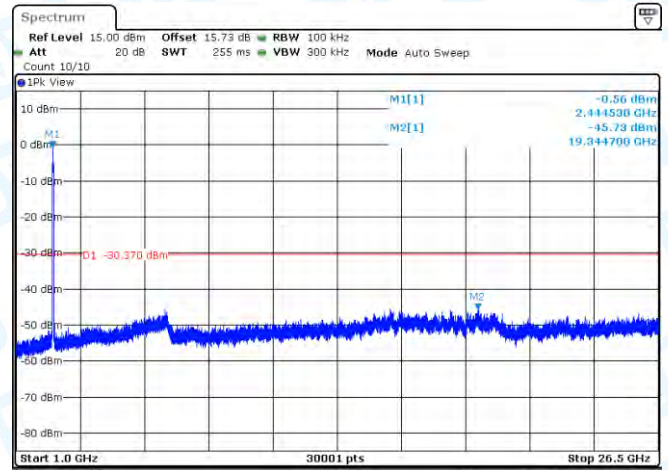
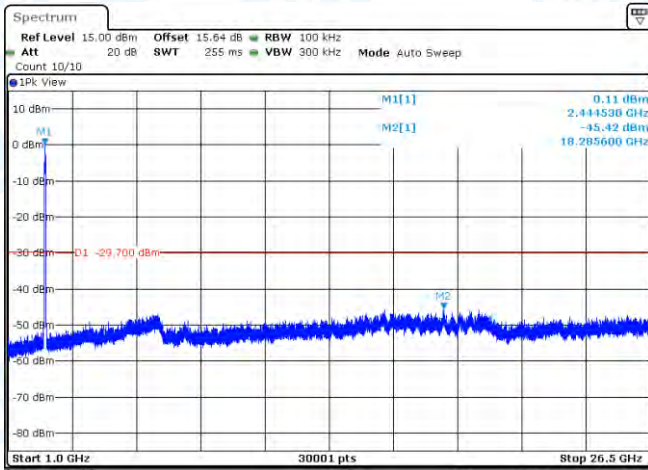
11N40MIMO-Ant1-2452-0~Reference-PASS

11N40MIMO-Ant2-2452-0~Reference-PASS



11N40MIMO-Ant1-2452-30~1000-PASS

11N40MIMO-Ant2-2452-30~1000-PASS



11N40MIMO-Ant1-2452-1000~26500-PASS

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

7: Duty Cycle

7.1 Test Result

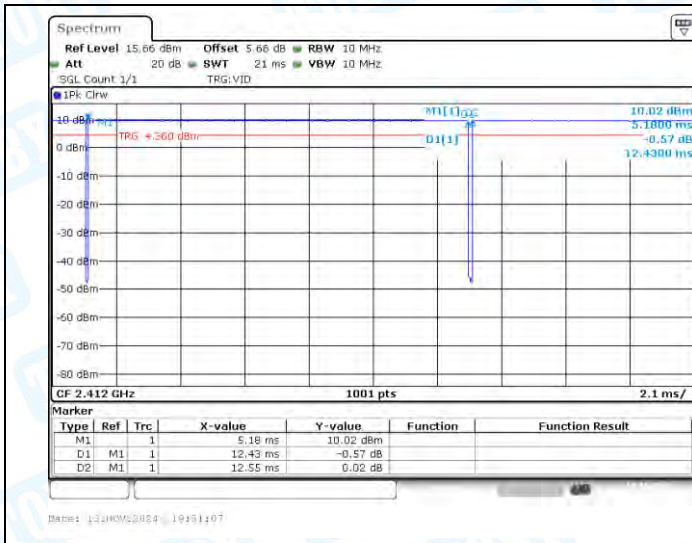
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factory	1/T [kHz]
11B-CDD	Ant1	2412	12.43	12.55	99.04	0.04	0.08
11B-CDD	Ant2	2412	12.41	12.55	98.88	0.05	0.08
11B-CDD	Ant1	2437	12.43	12.53	99.20	0.03	0.08
11B-CDD	Ant2	2437	12.43	12.61	98.57	0.06	0.08
11B-CDD	Ant1	2462	12.41	12.58	98.65	0.06	0.08
11B-CDD	Ant2	2462	12.43	12.50	99.44	0.02	0.08
11G-CDD	Ant1	2412	2.06	2.22	92.79	0.32	0.49
11G-CDD	Ant2	2412	2.06	2.19	94.06	0.27	0.49
11G-CDD	Ant1	2437	2.06	2.17	94.93	0.23	0.49
11G-CDD	Ant2	2437	2.07	2.21	93.67	0.28	0.48
11G-CDD	Ant1	2462	2.07	2.15	96.28	0.16	0.48
11G-CDD	Ant2	2462	2.06	2.24	91.96	0.36	0.49
11N20MIMO	Ant1	2412	1.92	2.22	86.49	0.63	0.52
11N20MIMO	Ant2	2412	1.92	2.08	92.31	0.35	0.52
11N20MIMO	Ant1	2437	1.92	2.05	93.66	0.28	0.52
11N20MIMO	Ant2	2437	1.92	2.04	94.12	0.26	0.52
11N20MIMO	Ant1	2462	1.92	2.09	91.87	0.37	0.52
11N20MIMO	Ant2	2462	1.92	2.07	92.75	0.33	0.52
11N40MIMO	Ant1	2422	0.95	1.05	90.48	0.43	1.05
11N40MIMO	Ant2	2422	0.95	1.11	85.59	0.68	1.05
11N40MIMO	Ant1	2437	0.94	1.12	83.93	0.76	1.06
11N40MIMO	Ant2	2437	0.95	1.08	87.96	0.56	1.05
11N40MIMO	Ant1	2452	0.94	1.11	84.68	0.72	1.06
11N40MIMO	Ant2	2452	0.95	1.13	84.07	0.75	1.05

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

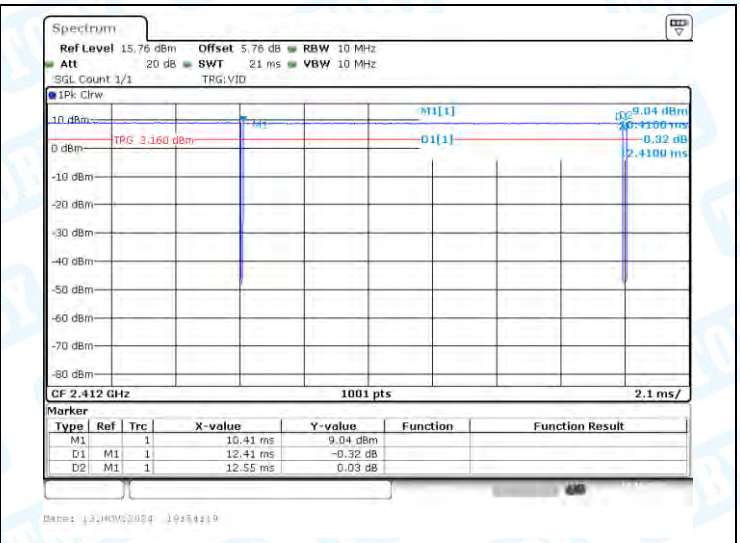
2, DC Factory=10*Log₁₀(1/Duty Cycle)

3, 1/T=1/ Transmission Duration

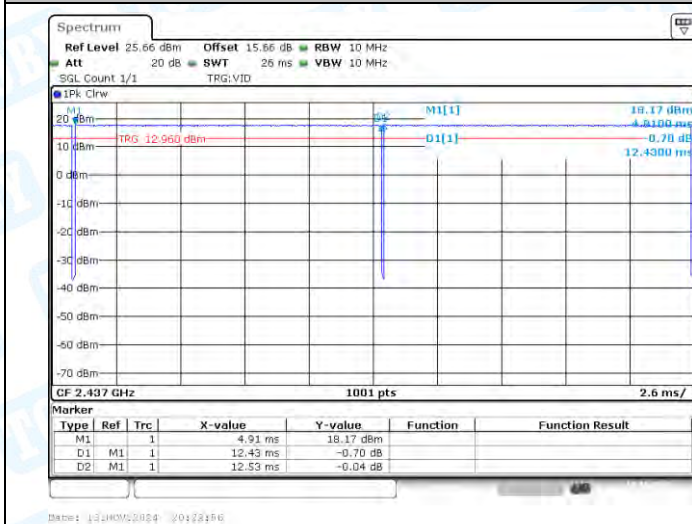
7.2 Test Graphs



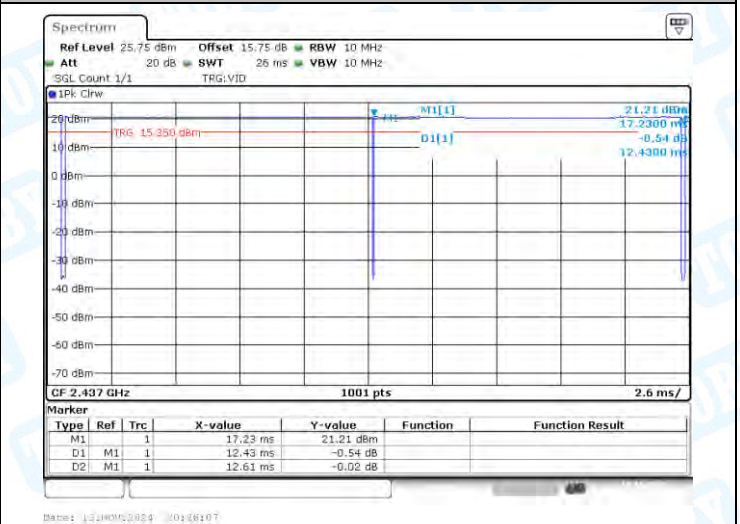
NTVN-11B-CDD-Ant1-2412



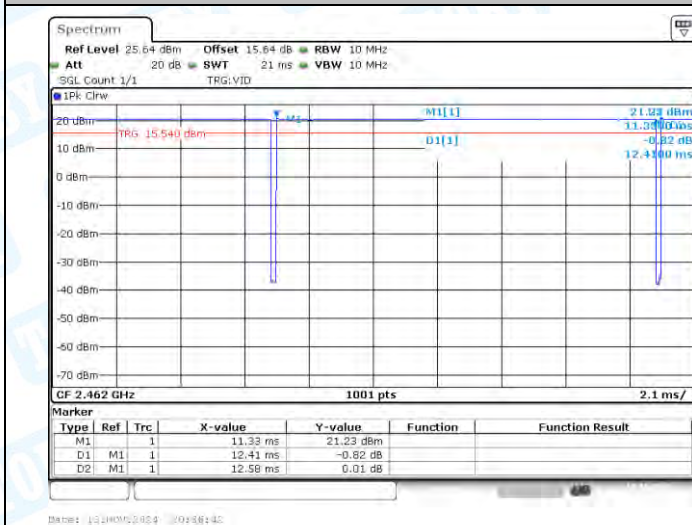
NTVN-11B-CDD-Ant2-2412



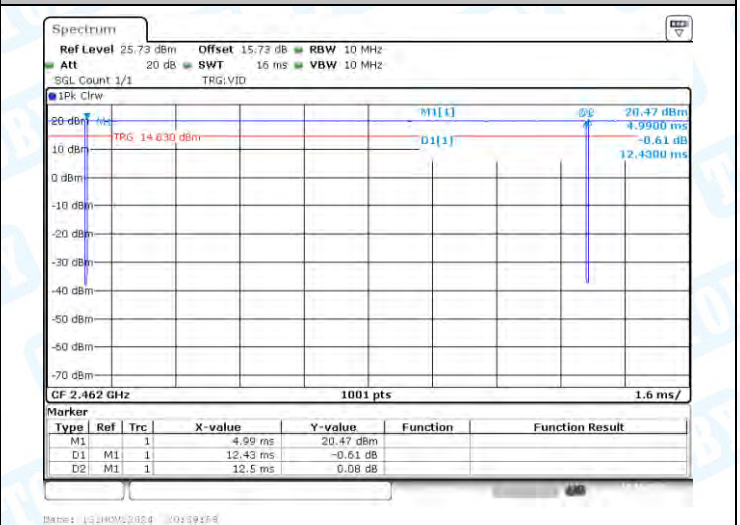
NTVN-11B-CDD-Ant1-2437



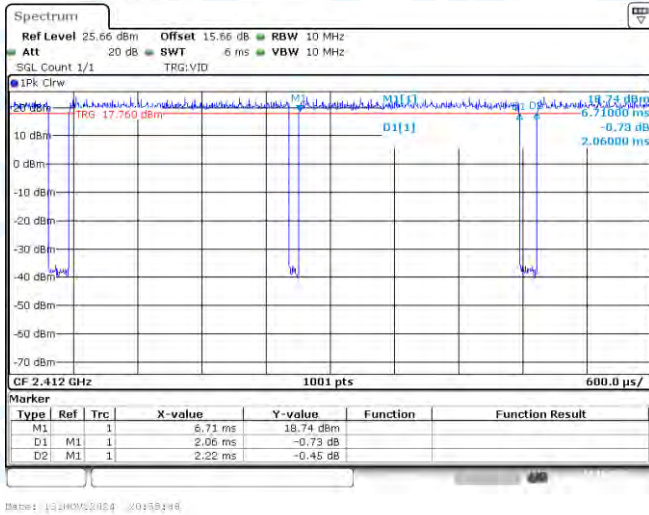
NTVN-11B-CDD-Ant2-2437



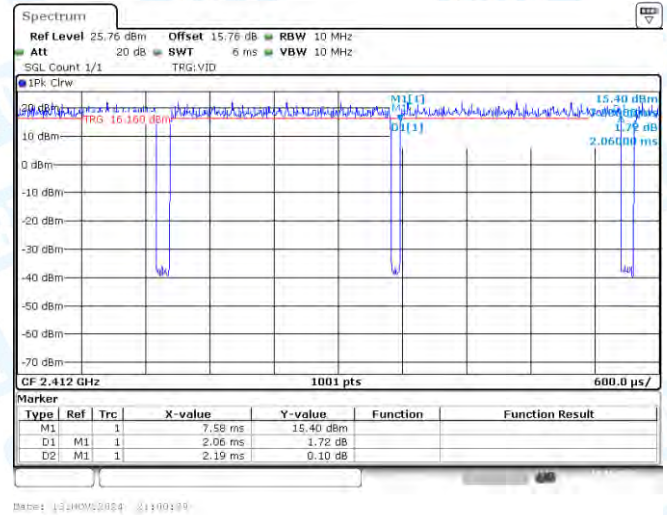
NTVN-11B-CDD-Ant1-2462



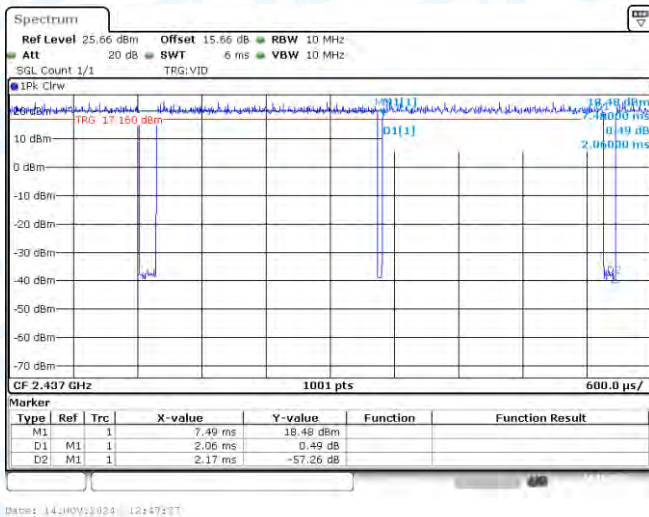
NTVN-11B-CDD-Ant2-2462



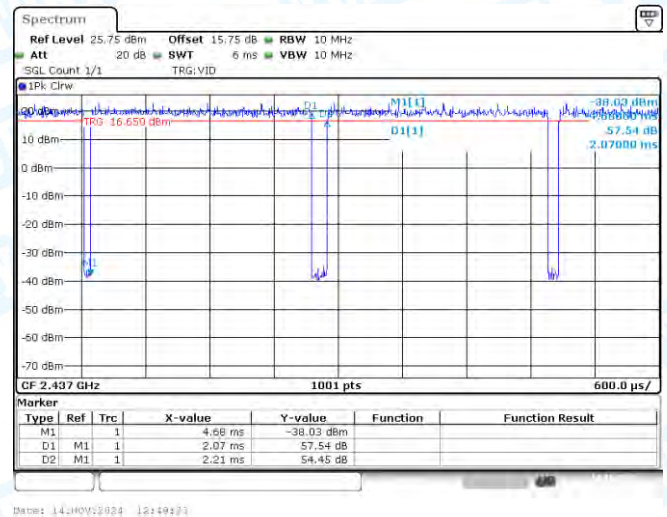
NTNV-11G-CDD-Ant1-2412



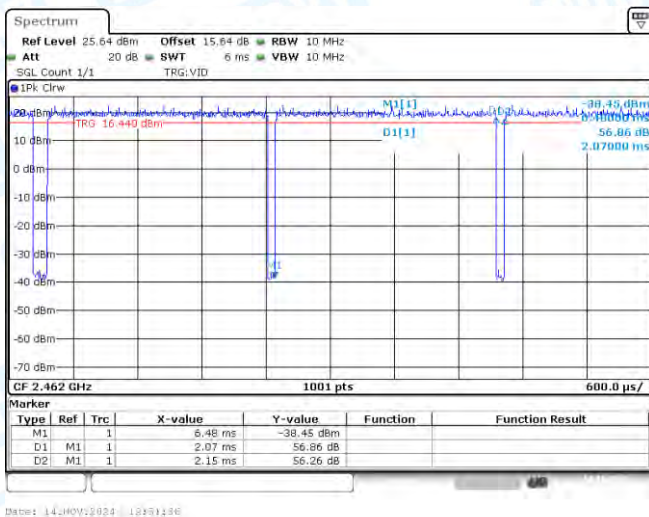
NTNV-11G-CDD-Ant2-2412



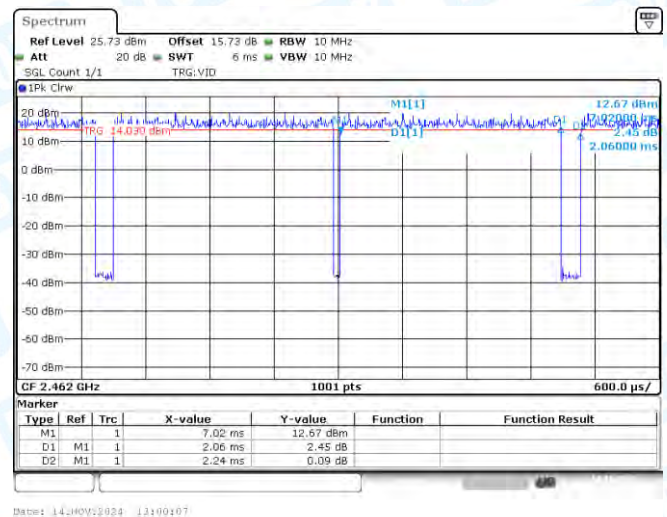
NTNV-11G-CDD-Ant1-2437



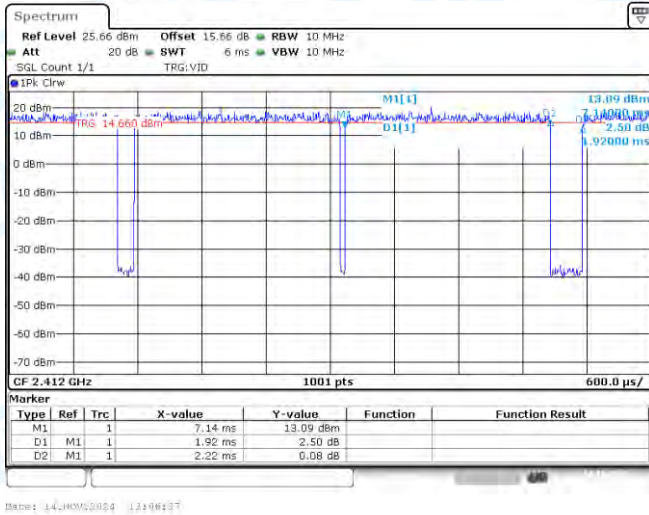
NTNV-11G-CDD-Ant2-2437



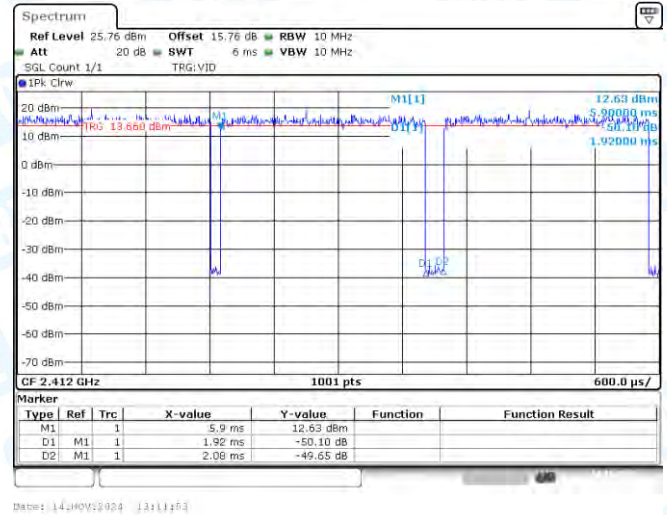
NTNV-11G-CDD-Ant1-2462



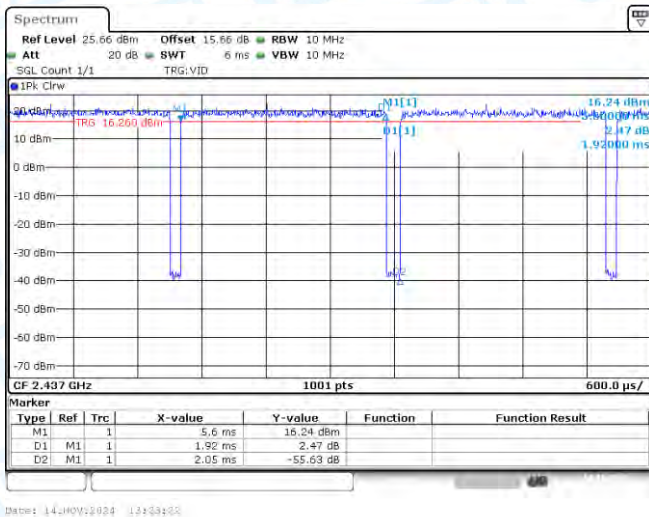
NTNV-11G-CDD-Ant2-2462



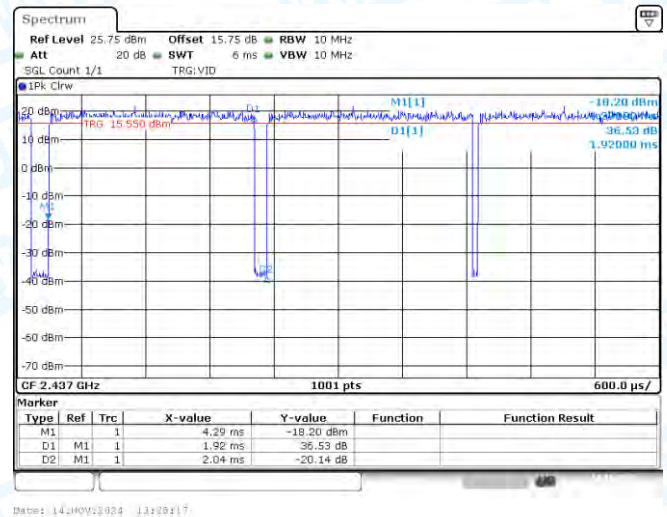
NTNV-11N20MIMO-Ant1-2412



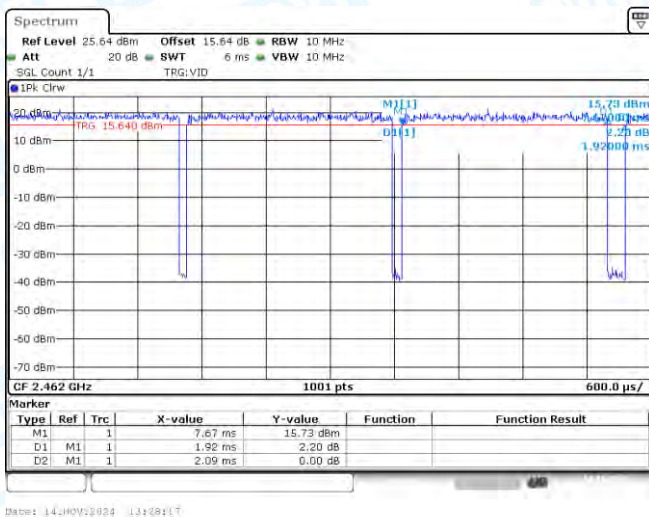
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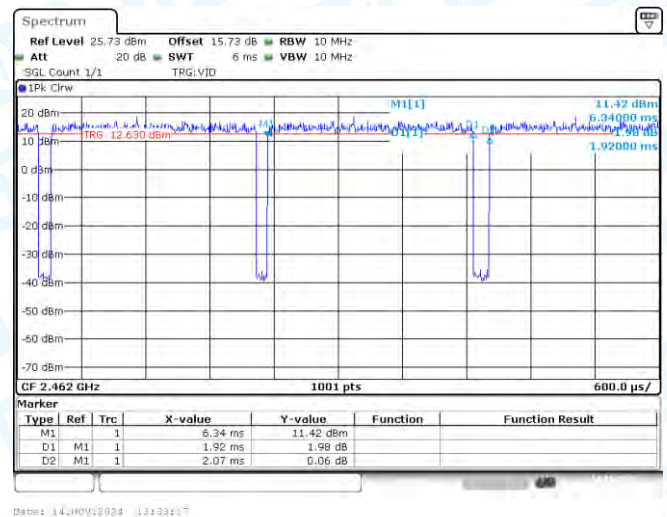
NTNV-11N20MIMO-Ant1-2437



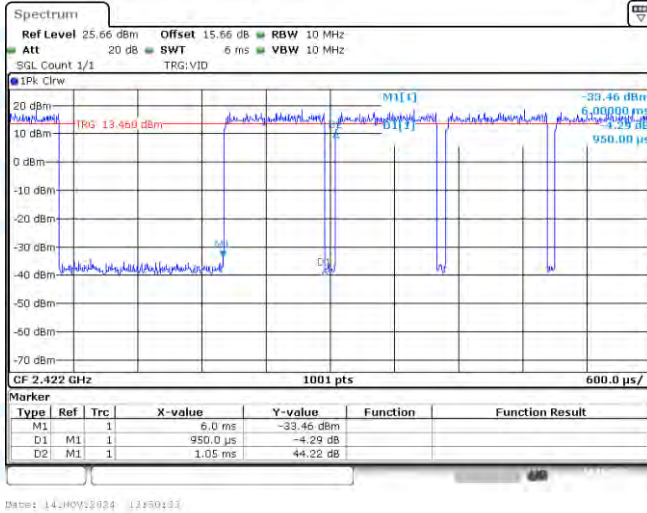
NTNV-11N20MIMO-Ant2-2437



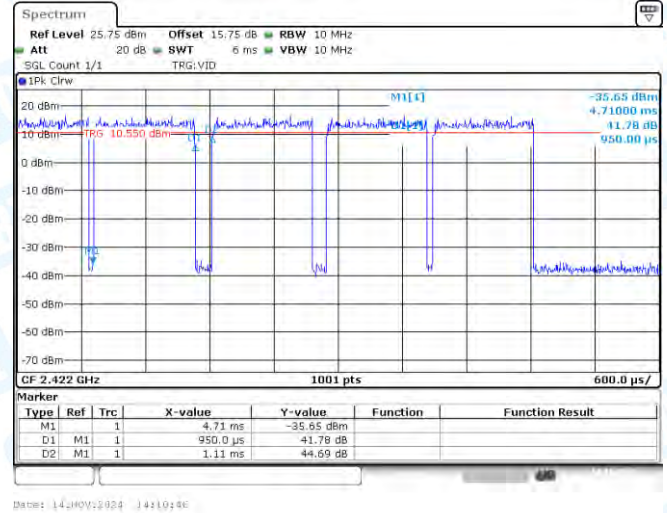
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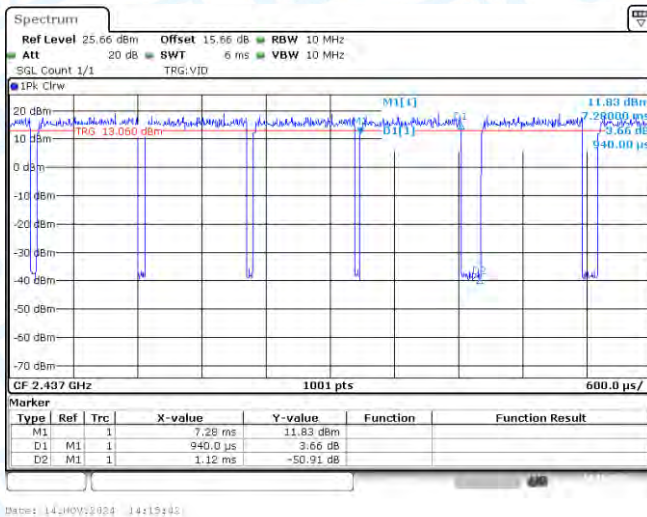
NTNV-11N20MIMO-Ant2-2462



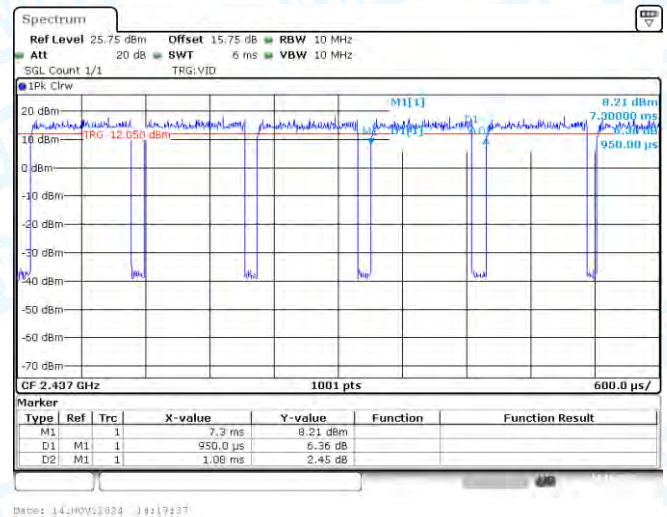
NTNV-11N40MIMO-Ant1-2422



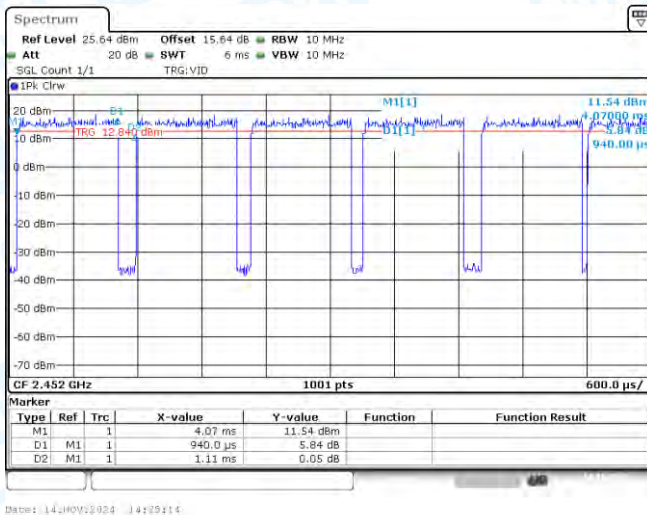
NTNV-11N40MIMO-Ant2-2422



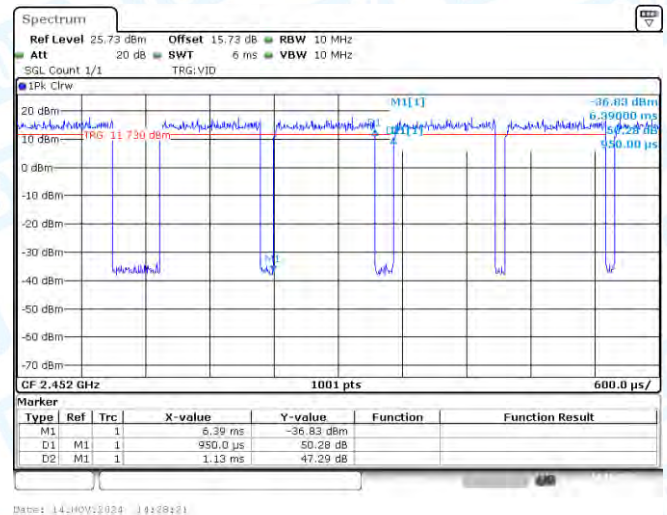
NTNV-11N40MIMO-Ant1-2437



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	-34.7	≤-21.20	60.50	≤74	PASS
11B-CDD	Ant1	Low	2412	Peak	2310.000	-42.18	≤-21.20	53.02	≤74	PASS
11B-CDD	Ant1	Low	2412	Peak	2385.913	-31.31	≤-21.20	63.89	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2390.000	-41.13	≤-21.20	54.07	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2310.000	-41.46	≤-21.20	53.74	≤74	PASS
11B-CDD	Ant2	Low	2412	Peak	2341.072	-38.7	≤-21.20	56.50	≤74	PASS
11B-CDD	total	Low	2412	Peak	2390.000	-33.81	≤-21.20	61.39	≤74	PASS
11B-CDD	total	Low	2412	Peak	2310.000	-38.79	≤-21.20	56.41	≤74	PASS
11B-CDD	total	Low	2412	Peak	2341.072	-30.58	≤-21.20	64.62	≤74	PASS
11B-CDD	Ant1	Low	2412	AV	2390.000	-48	≤-41.20	47.20	≤54	PASS
11B-CDD	Ant1	Low	2412	AV	2310.000	-50.22	≤-41.20	44.98	≤54	PASS
11B-CDD	Ant1	Low	2412	AV	2387.420	-45.95	≤-41.20	49.25	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2390.000	-49.44	≤-41.20	45.76	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2310.000	-49.86	≤-41.20	45.34	≤54	PASS
11B-CDD	Ant2	Low	2412	AV	2340.696	-47.89	≤-41.20	47.31	≤54	PASS
11B-CDD	total	Low	2412	AV	2390.000	-45.65	≤-41.20	49.55	≤54	PASS
11B-CDD	total	Low	2412	AV	2310.000	-47.03	≤-41.20	48.17	≤54	PASS
11B-CDD	total	Low	2412	AV	2340.696	-43.80	≤-41.20	51.40	≤54	PASS
11B-CDD	Ant1	High	2462	Peak	2483.500	-36.38	≤-21.20	58.82	≤74	PASS
11B-CDD	Ant1	High	2462	Peak	2500.000	-38.24	≤-21.20	56.96	≤74	PASS
11B-CDD	Ant1	High	2462	Peak	2483.681	-36.36	≤-21.20	58.84	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2483.500	-36.94	≤-21.20	58.26	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2500.000	-39.32	≤-21.20	55.88	≤74	PASS
11B-CDD	Ant2	High	2462	Peak	2488.145	-36.11	≤-21.20	59.09	≤74	PASS
11B-CDD	total	High	2462	Peak	2483.500	-33.64	≤-21.20	61.56	≤74	PASS
11B-CDD	total	High	2462	Peak	2500.000	-35.74	≤-21.20	59.46	≤74	PASS
11B-CDD	total	High	2462	Peak	2488.145	-33.22	≤-21.20	61.98	≤74	PASS
11B-CDD	Ant1	High	2462	AV	2483.500	-45.46	≤-41.20	49.74	≤54	PASS
11B-CDD	Ant1	High	2462	AV	2500.000	-50.35	≤-41.20	44.85	≤54	PASS
11B-CDD	Ant1	High	2462	AV	2483.522	-45.46	≤-41.20	49.74	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2483.500	-45.5	≤-41.20	49.70	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2500.000	-49.44	≤-41.20	45.76	≤54	PASS
11B-CDD	Ant2	High	2462	AV	2483.522	-45.5	≤-41.20	49.70	≤54	PASS
11B-CDD	total	High	2462	AV	2483.500	-42.47	≤-41.20	52.73	≤54	PASS
11B-CDD	total	High	2462	AV	2500.000	-46.86	≤-41.20	48.34	≤54	PASS
11B-CDD	total	High	2462	AV	2483.522	-42.47	≤-41.20	52.73	≤54	PASS
11G-CDD	Ant1	Low	2412	Peak	2390.000	-29.4	≤-21.20	65.80	≤74	PASS
11G-CDD	Ant1	Low	2412	Peak	2310.000	-41.71	≤-21.20	53.49	≤74	PASS
11G-CDD	Ant1	Low	2412	Peak	2389.870	-29.85	≤-21.20	65.35	≤74	PASS
11G-CDD	Ant2	Low	2412	Peak	2390.000	-34.88	≤-21.20	60.32	≤74	PASS

11G-CDD	Ant2	Low	2412	Peak	2310.000	-41.71	≤-21.20	53.49	≤74	PASS
11G-CDD	Ant2	Low	2412	Peak	2389.870	-35.06	≤-21.20	60.14	≤74	PASS
11G-CDD	total	Low	2412	Peak	2390.000	-28.32	≤-21.20	66.88	≤74	PASS
11G-CDD	total	Low	2412	Peak	2310.000	-38.70	≤-21.20	56.50	≤74	PASS
11G-CDD	total	Low	2412	Peak	2389.870	-28.71	≤-21.20	66.49	≤74	PASS
11G-CDD	Ant1	Low	2412	AV	2390.000	-42.45	≤-41.20	52.75	≤54	PASS
11G-CDD	Ant1	Low	2412	AV	2310.000	-50.58	≤-41.20	44.62	≤54	PASS
11G-CDD	Ant1	Low	2412	AV	2389.870	-42.86	≤-41.20	52.34	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2390.000	-47.69	≤-41.20	47.51	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2310.000	-49.96	≤-41.20	45.24	≤54	PASS
11G-CDD	Ant2	Low	2412	AV	2389.493	-47.26	≤-41.20	47.94	≤54	PASS
11G-CDD	total	Low	2412	AV	2390.000	-41.31	≤-41.20	53.89	≤54	PASS
11G-CDD	total	Low	2412	AV	2310.000	-47.25	≤-41.20	47.95	≤54	PASS
11G-CDD	total	Low	2412	AV	2389.493	-41.51	≤-41.20	53.69	≤54	PASS
11G-CDD	Ant1	High	2462	Peak	2483.500	-28.26	≤-21.20	66.94	≤74	PASS
11G-CDD	Ant1	High	2462	Peak	2500.000	-40.58	≤-21.20	54.62	≤74	PASS
11G-CDD	Ant1	High	2462	Peak	2483.841	-27.97	≤-21.20	67.23	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2483.500	-32.87	≤-21.20	62.33	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2500.000	-41.42	≤-21.20	53.78	≤74	PASS
11G-CDD	Ant2	High	2462	Peak	2483.522	-32.87	≤-21.20	62.33	≤74	PASS
11G-CDD	total	High	2462	Peak	2483.500	-26.97	≤-21.20	68.23	≤74	PASS
11G-CDD	total	High	2462	Peak	2500.000	-37.97	≤-21.20	57.23	≤74	PASS
11G-CDD	total	High	2462	Peak	2483.522	-26.75	≤-21.20	68.45	≤74	PASS
11G-CDD	Ant1	High	2462	AV	2483.500	-45.39	≤-41.20	49.81	≤54	PASS
11G-CDD	Ant1	High	2462	AV	2500.000	-49.05	≤-41.20	46.15	≤54	PASS
11G-CDD	Ant1	High	2462	AV	2483.522	-45.39	≤-41.20	49.81	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2483.500	-47.06	≤-41.20	48.14	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2500.000	-49.04	≤-41.20	46.16	≤54	PASS
11G-CDD	Ant2	High	2462	AV	2483.522	-47.06	≤-41.20	48.14	≤54	PASS
11G-CDD	total	High	2462	AV	2483.500	-43.13	≤-41.20	52.07	≤54	PASS
11G-CDD	total	High	2462	AV	2500.000	-46.03	≤-41.20	49.17	≤54	PASS
11G-CDD	total	High	2462	AV	2483.522	-43.13	≤-41.20	52.07	≤54	PASS
11N20MIMO	Ant1	Low	2412	Peak	2390.000	-32.56	≤-21.20	62.64	≤74	PASS
11N20MIMO	Ant1	Low	2412	Peak	2310.000	-41.55	≤-21.20	53.65	≤74	PASS
11N20MIMO	Ant1	Low	2412	Peak	2389.304	-32.41	≤-21.20	62.79	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2390.000	-33.53	≤-21.20	61.67	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2310.000	-40.55	≤-21.20	54.65	≤74	PASS
11N20MIMO	Ant2	Low	2412	Peak	2389.870	-34.13	≤-21.20	61.07	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2390.000	-30.01	≤-21.20	65.19	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2310.000	-38.01	≤-21.20	57.19	≤74	PASS
11N20MIMO	total	Low	2412	Peak	2389.870	-30.18	≤-21.20	65.02	≤74	PASS
11N20MIMO	Ant1	Low	2412	AV	2390.000	-47.18	≤-41.20	48.02	≤54	PASS
11N20MIMO	Ant1	Low	2412	AV	2310.000	-50.66	≤-41.20	44.54	≤54	PASS
11N20MIMO	Ant1	Low	2412	AV	2389.116	-46.7	≤-41.20	48.50	≤54	PASS
11N20MIMO	Ant2	Low	2412	AV	2390.000	-47.44	≤-41.20	47.76	≤54	PASS

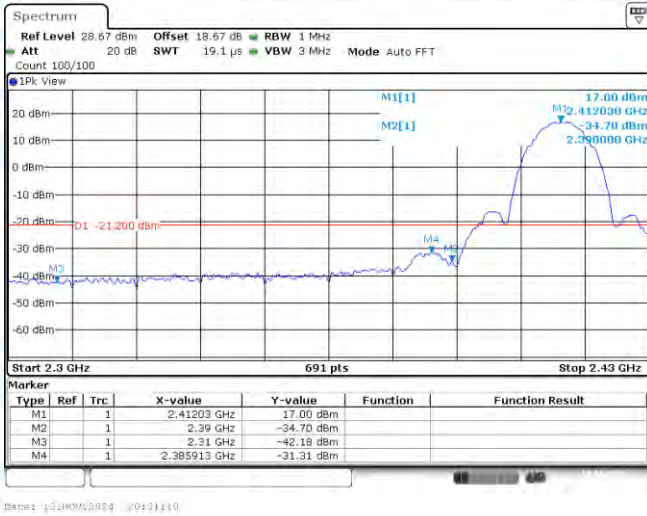
11N20MIMO	Ant2	Low	2412	AV	2310.000	-49.87	≤-41.20	45.33	≤54	PASS
11N20MIMO	Ant2	Low	2412	AV	2389.870	-47.51	≤-41.20	47.69	≤54	PASS
11N20MIMO	total	Low	2412	AV	2390.000	-44.30	≤-41.20	50.90	≤54	PASS
11N20MIMO	total	Low	2412	AV	2310.000	-47.24	≤-41.20	47.96	≤54	PASS
11N20MIMO	total	Low	2412	AV	2389.870	-44.08	≤-41.20	51.12	≤54	PASS
11N20MIMO	Ant1	High	2462	Peak	2483.500	-27.62	≤-21.20	67.58	≤74	PASS
11N20MIMO	Ant1	High	2462	Peak	2500.000	-40.83	≤-21.20	54.37	≤74	PASS
11N20MIMO	Ant1	High	2462	Peak	2483.522	-27.62	≤-21.20	67.58	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2483.500	-33.44	≤-21.20	61.76	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2500.000	-41.04	≤-21.20	54.16	≤74	PASS
11N20MIMO	Ant2	High	2462	Peak	2483.522	-33.44	≤-21.20	61.76	≤74	PASS
11N20MIMO	total	High	2462	Peak	2483.500	-26.61	≤-21.20	68.59	≤74	PASS
11N20MIMO	total	High	2462	Peak	2500.000	-37.92	≤-21.20	57.28	≤74	PASS
11N20MIMO	total	High	2462	Peak	2483.522	-26.61	≤-21.20	68.59	≤74	PASS
11N20MIMO	Ant1	High	2462	AV	2483.500	-46.89	≤-41.20	48.31	≤54	PASS
11N20MIMO	Ant1	High	2462	AV	2500.000	-50.28	≤-41.20	44.92	≤54	PASS
11N20MIMO	Ant1	High	2462	AV	2483.522	-46.89	≤-41.20	48.31	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2483.500	-48.02	≤-41.20	47.18	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2500.000	-49.48	≤-41.20	45.72	≤54	PASS
11N20MIMO	Ant2	High	2462	AV	2483.841	-47.93	≤-41.20	47.27	≤54	PASS
11N20MIMO	total	High	2462	AV	2483.500	-44.41	≤-41.20	50.79	≤54	PASS
11N20MIMO	total	High	2462	AV	2500.000	-46.85	≤-41.20	48.35	≤54	PASS
11N20MIMO	total	High	2462	AV	2483.841	-44.37	≤-41.20	50.83	≤54	PASS
11N40MIMO	Ant1	Low	2422	Peak	2390.000	-32.43	≤-21.20	62.77	≤74	PASS
11N40MIMO	Ant1	Low	2422	Peak	2310.000	-41.3	≤-21.20	53.90	≤74	PASS
11N40MIMO	Ant1	Low	2422	Peak	2387.986	-28.82	≤-21.20	66.38	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2390.000	-34.84	≤-21.20	60.36	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2310.000	-41.64	≤-21.20	53.56	≤74	PASS
11N40MIMO	Ant2	Low	2422	Peak	2388.174	-31.38	≤-21.20	63.82	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2390.000	-30.46	≤-21.20	64.74	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2310.000	-38.46	≤-21.20	56.74	≤74	PASS
11N40MIMO	total	Low	2422	Peak	2388.174	-26.90	≤-21.20	68.30	≤74	PASS
11N40MIMO	Ant1	Low	2422	AV	2390.000	-45.29	≤-41.20	49.91	≤54	PASS
11N40MIMO	Ant1	Low	2422	AV	2310.000	-50.52	≤-41.20	44.68	≤54	PASS
11N40MIMO	Ant1	Low	2422	AV	2389.116	-44.99	≤-41.20	50.21	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2390.000	-46.75	≤-41.20	48.45	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2310.000	-49.55	≤-41.20	45.65	≤54	PASS
11N40MIMO	Ant2	Low	2422	AV	2388.551	-46.51	≤-41.20	48.69	≤54	PASS
11N40MIMO	total	Low	2422	AV	2390.000	-42.95	≤-41.20	52.25	≤54	PASS
11N40MIMO	total	Low	2422	AV	2310.000	-47.00	≤-41.20	48.20	≤54	PASS
11N40MIMO	total	Low	2422	AV	2388.551	-42.67	≤-41.20	52.53	≤54	PASS
11N40MIMO	Ant1	High	2452	Peak	2483.500	-36.2	≤-21.20	59.00	≤74	PASS
11N40MIMO	Ant1	High	2452	Peak	2500.000	-39.9	≤-21.20	55.30	≤74	PASS
11N40MIMO	Ant1	High	2452	Peak	2484.797	-32.36	≤-21.20	62.84	≤74	PASS
11N40MIMO	Ant2	High	2452	Peak	2483.500	-37.42	≤-21.20	57.78	≤74	PASS

11N40MIMO	Ant2	High	2452	Peak	2500.000	-40.05	≤-21.20	55.15	≤74	PASS
11N40MIMO	Ant2	High	2452	Peak	2487.029	-36.26	≤-21.20	58.94	≤74	PASS
11N40MIMO	total	High	2452	Peak	2483.500	-33.76	≤-21.20	61.44	≤74	PASS
11N40MIMO	total	High	2452	Peak	2500.000	-36.96	≤-21.20	58.24	≤74	PASS
11N40MIMO	total	High	2452	Peak	2487.029	-30.88	≤-21.20	64.32	≤74	PASS
11N40MIMO	Ant1	High	2452	AV	2483.500	-47.38	≤-41.20	47.82	≤54	PASS
11N40MIMO	Ant1	High	2452	AV	2500.000	-50.39	≤-41.20	44.81	≤54	PASS
11N40MIMO	Ant1	High	2452	AV	2483.681	-47.38	≤-41.20	47.82	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2483.500	-48.72	≤-41.20	46.48	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2500.000	-50.26	≤-41.20	44.94	≤54	PASS
11N40MIMO	Ant2	High	2452	AV	2484.159	-48.28	≤-41.20	46.92	≤54	PASS
11N40MIMO	total	High	2452	AV	2483.500	-44.99	≤-41.20	50.21	≤54	PASS
11N40MIMO	total	High	2452	AV	2500.000	-47.31	≤-41.20	47.89	≤54	PASS
11N40MIMO	total	High	2452	AV	2484.159	-44.80	≤-41.20	50.40	≤54	PASS

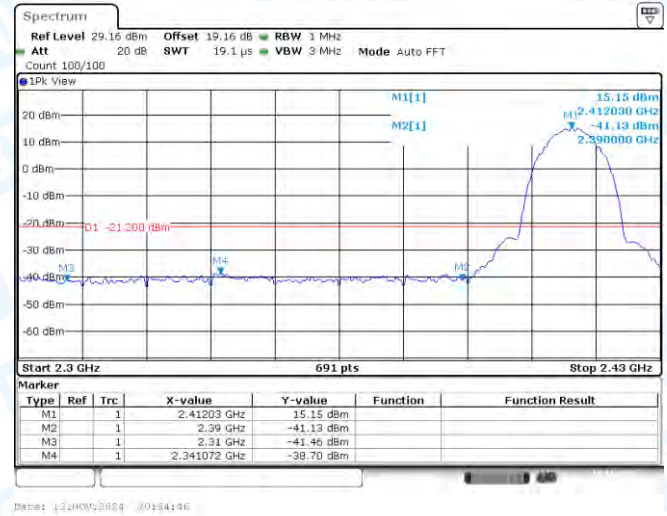
Note:

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), The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.
3. The Duty Cycle Factor is compensated in the graph.

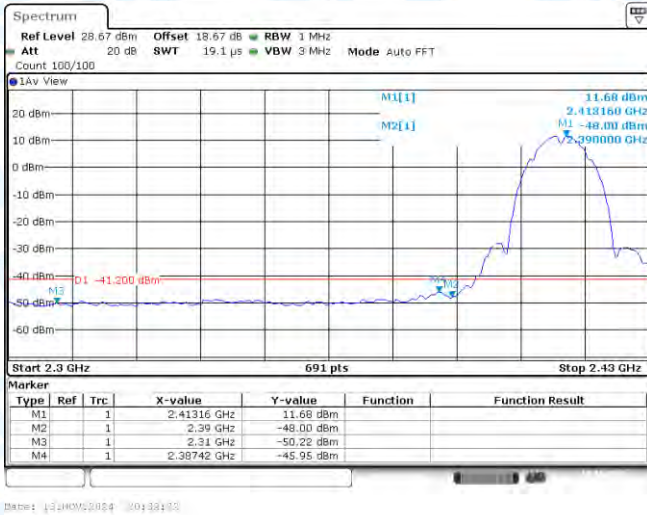
8.2 Test Graphs



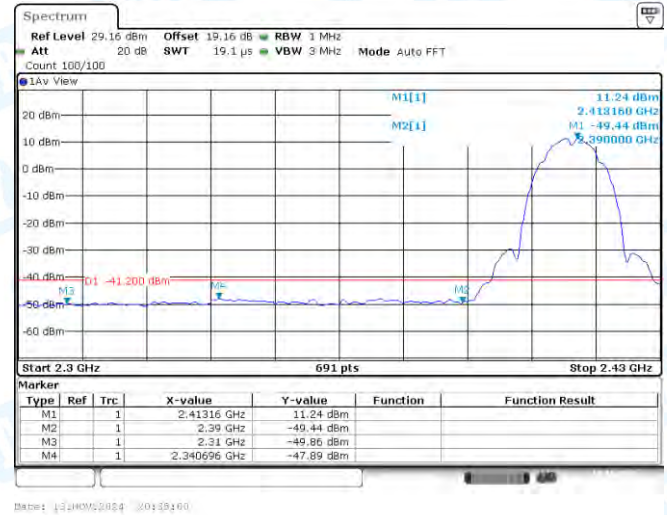
11B-CDD-Ant1-2412-PASS



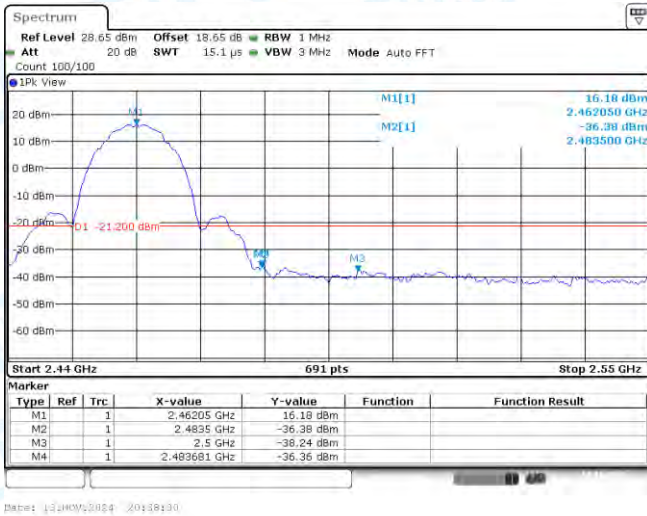
11B-CDD-Ant2-2412-PASS



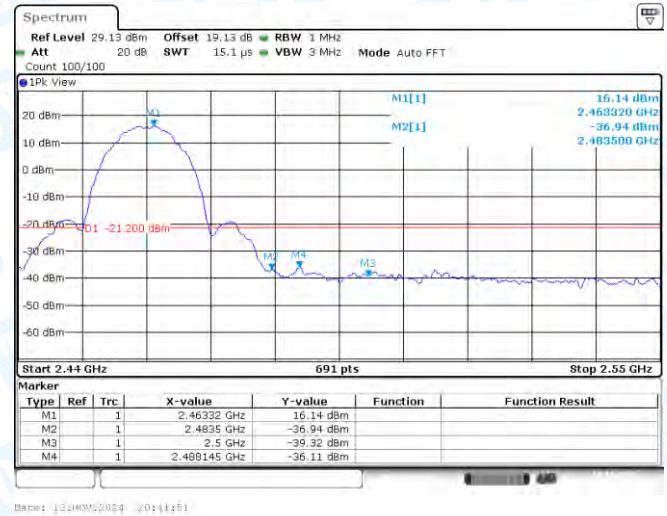
11B-CDD-Ant1-2412-PASS



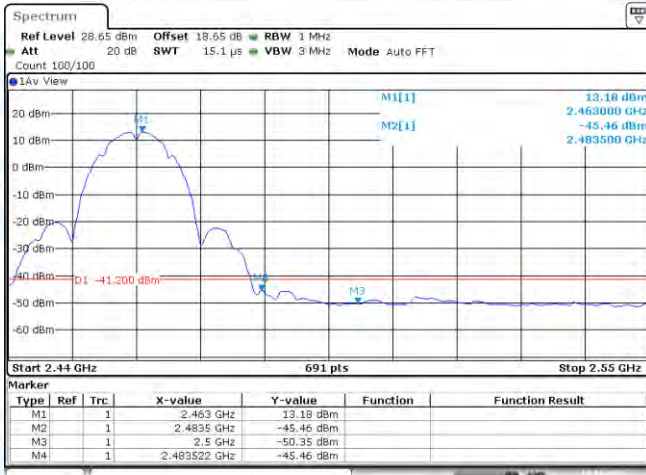
11B-CDD-Ant2-2412-PASS



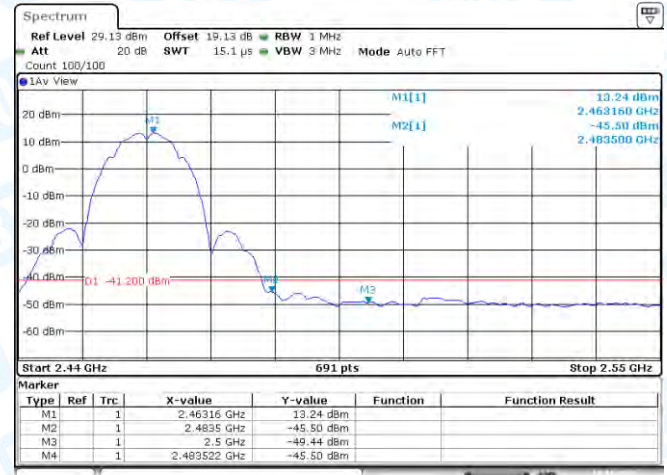
11B-CDD-Ant1-2462-PASS



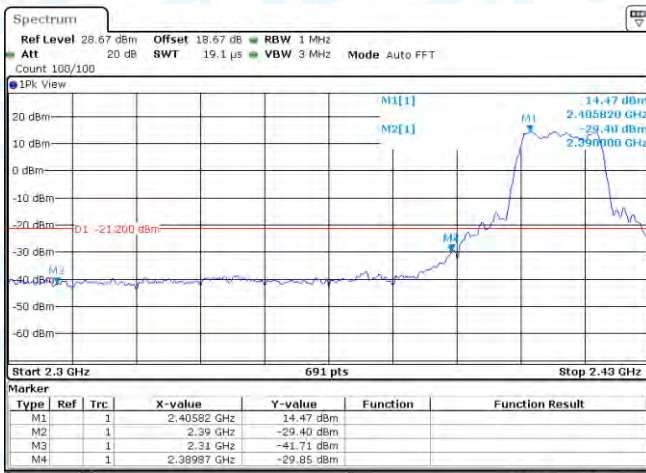
11B-CDD-Ant2-2462-PASS



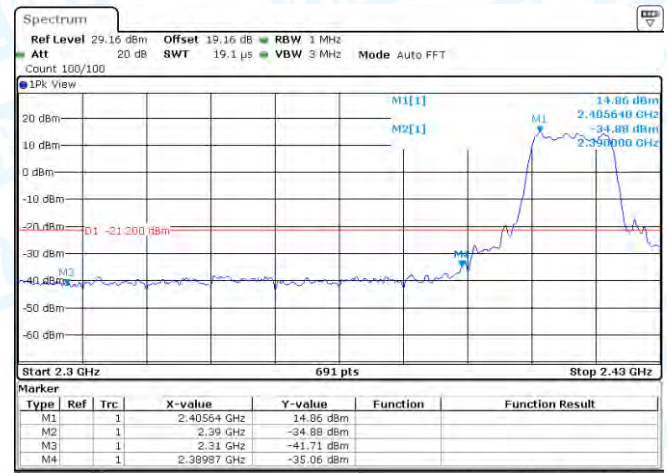
11B-CDD-Ant1-2462-PASS



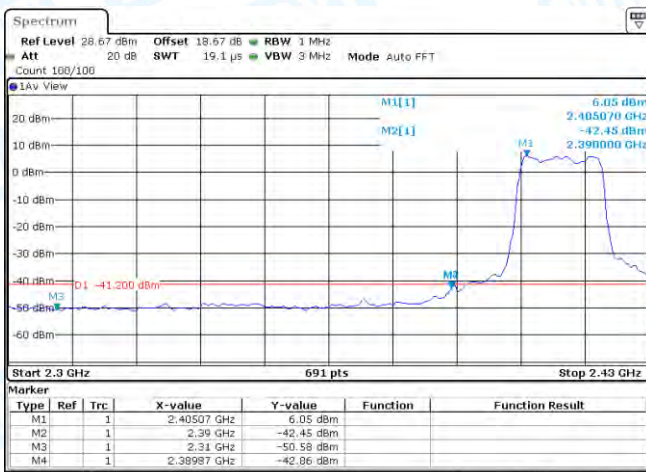
11B-CDD-Ant2-2462-PASS



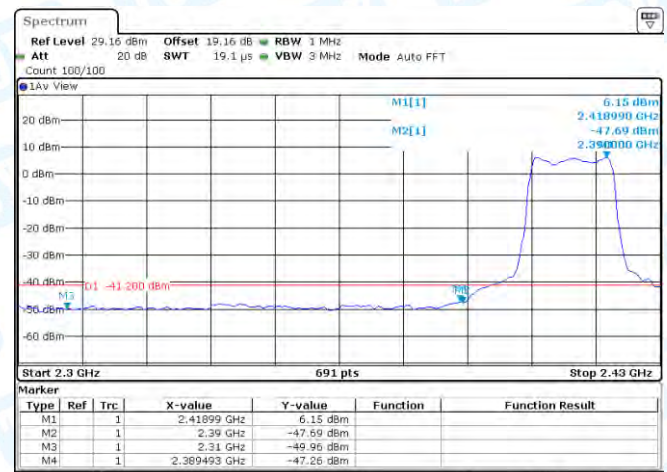
11G-CDD-Ant1-2412-PASS



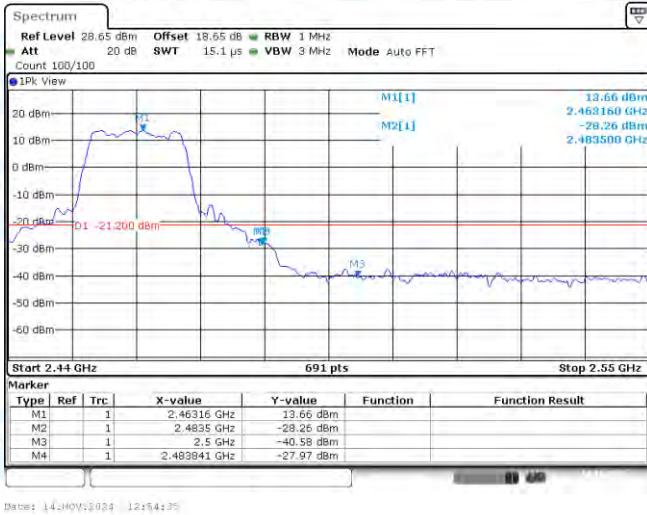
11G-CDD-Ant2-2412-PASS



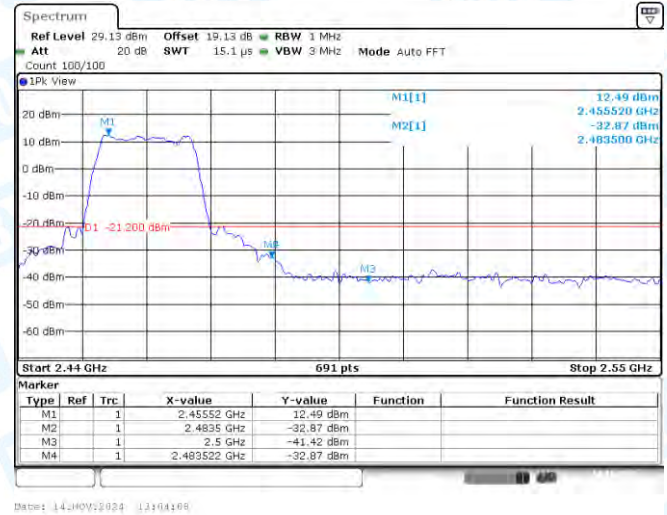
11G-CDD-Ant1-2412-PASS



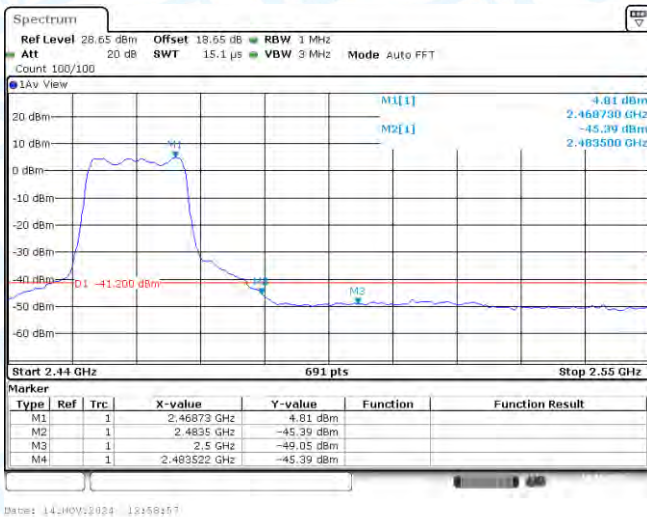
11G-CDD-Ant2-2412-PASS



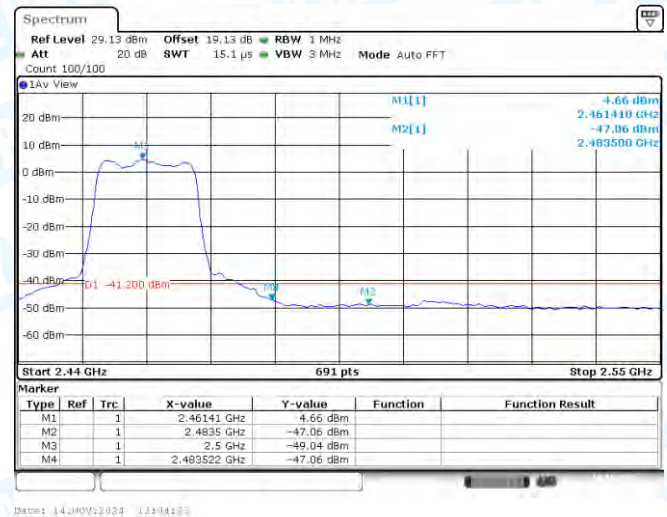
11G-CDD-Ant1-2462-PASS



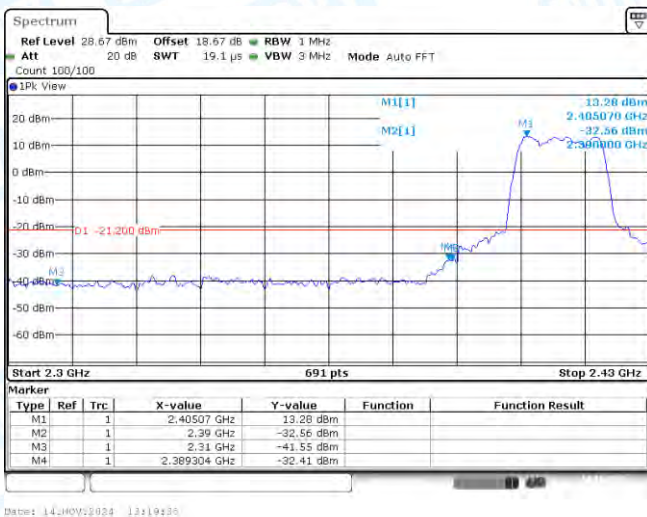
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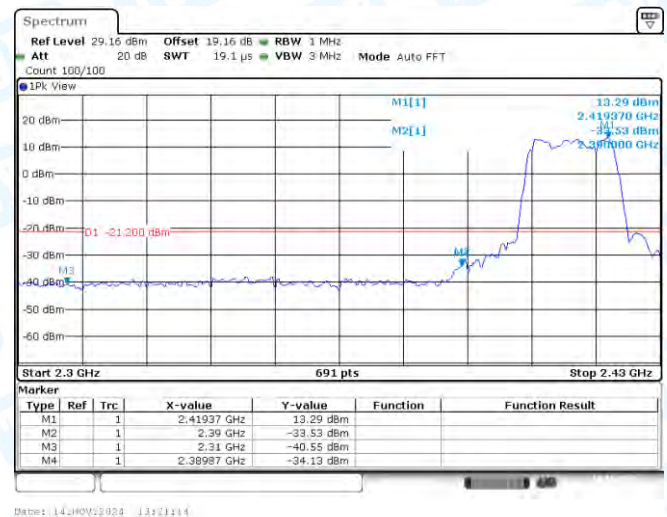
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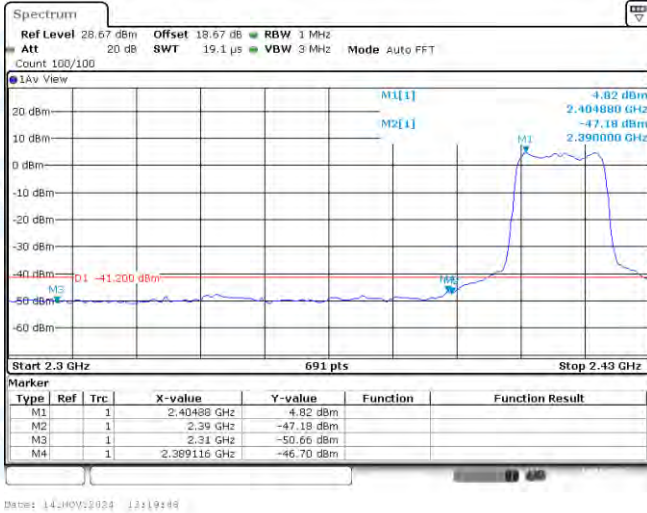
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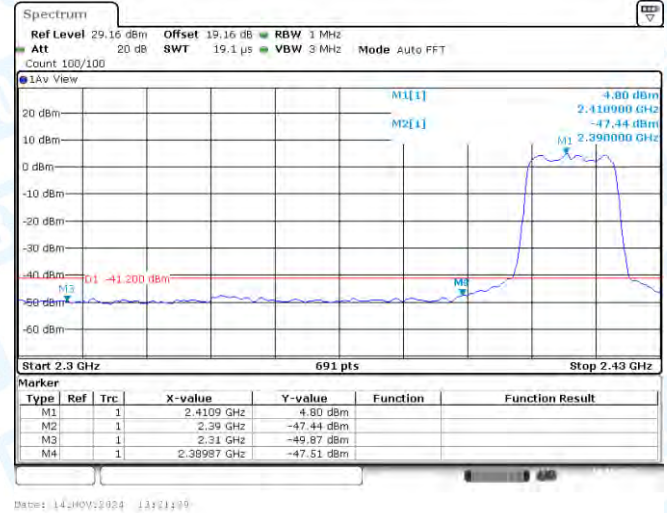
11N20MIMO-Ant1-2412-PASS



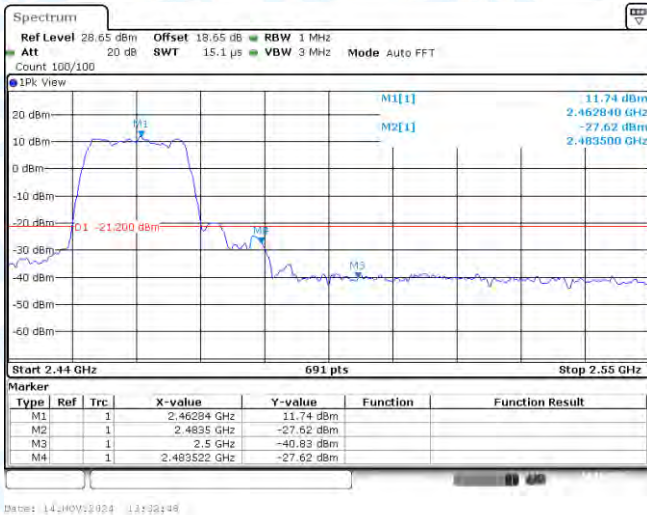
11N20MIMO-Ant2-2412-PASS



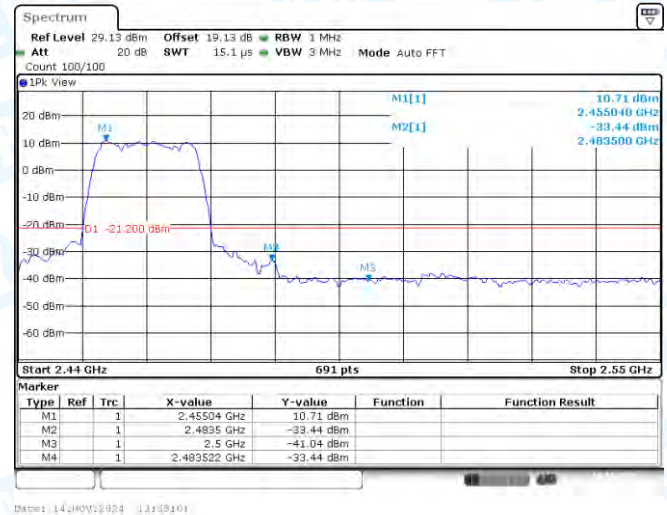
11N20MIMO-Ant1-2412-PASS



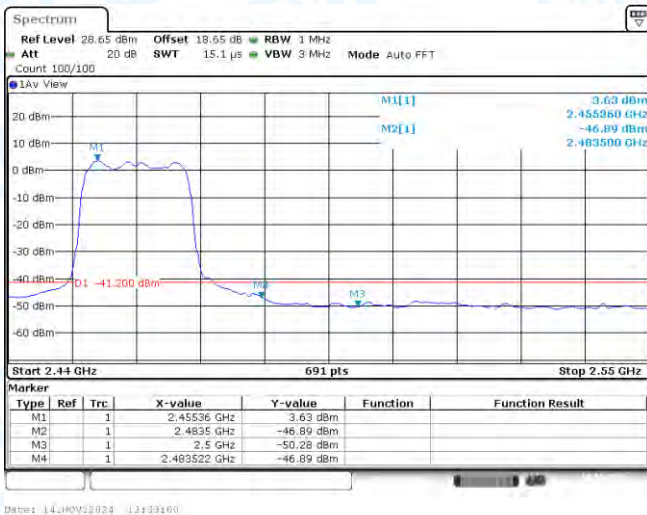
11N20MIMO-Ant2-2412-PASS



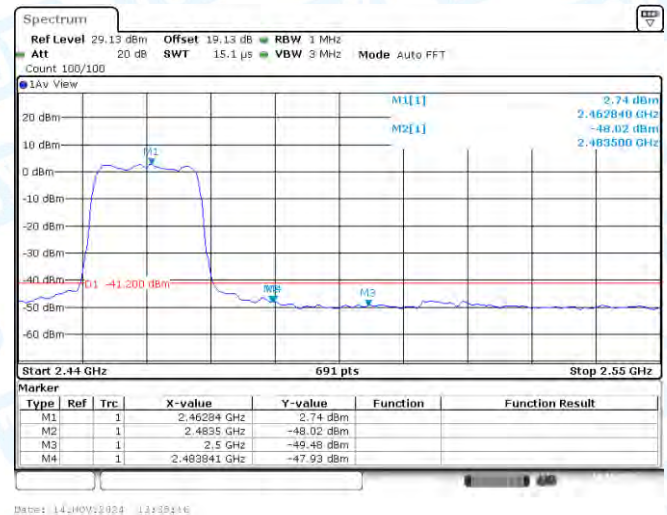
11N20MIMO-Ant1-2462-PASS



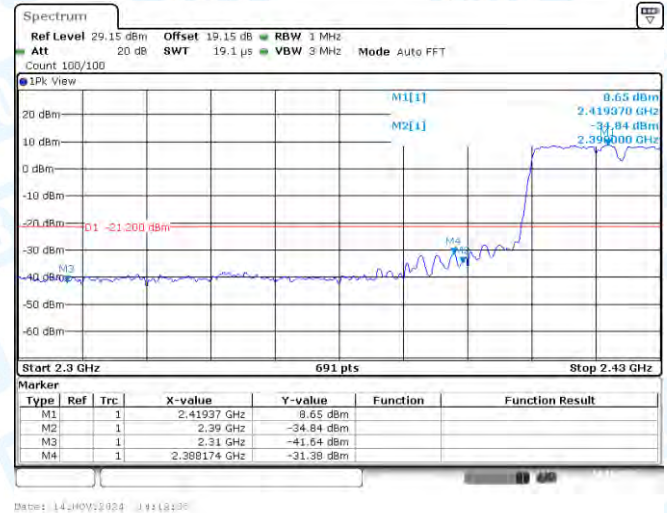
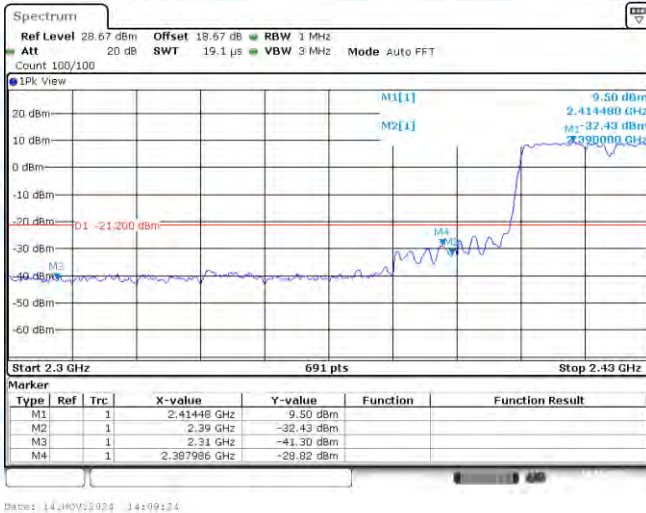
11N20MIMO-Ant2-2462-PASS



11N20MIMO-Ant1-2462-PASS

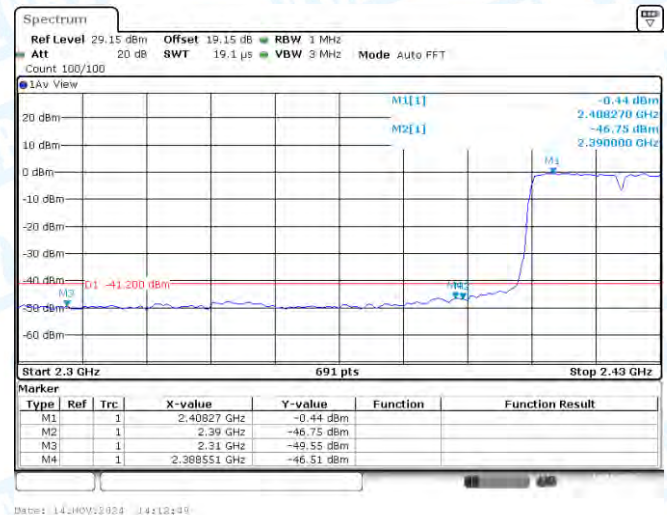
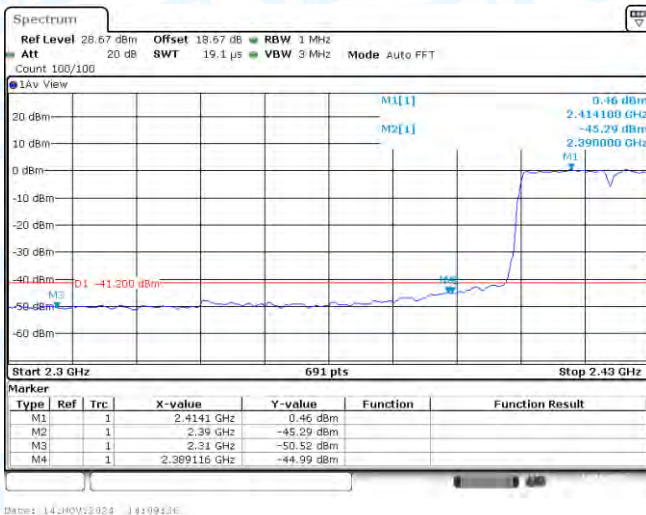


11N20MIMO-Ant2-2462-PASS



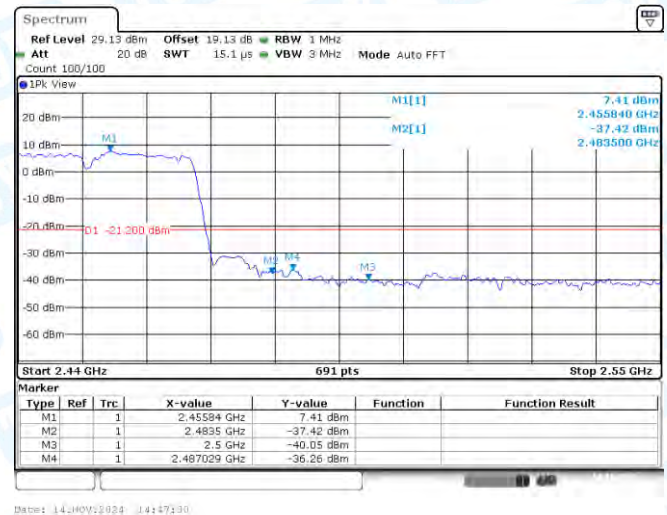
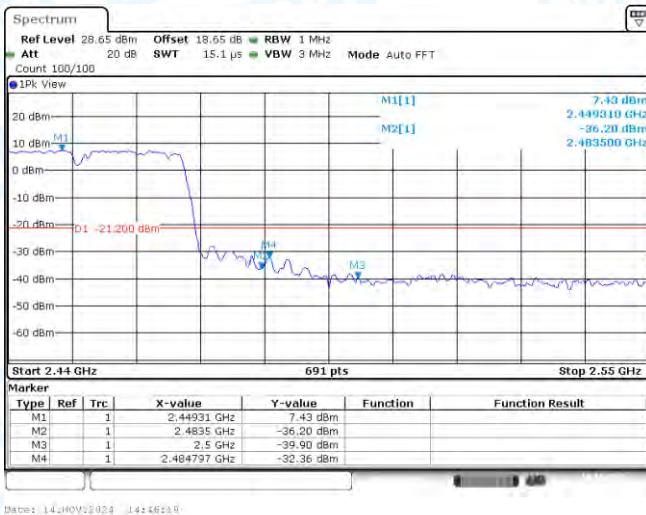
11N40MIMO-Ant1-2422-PASS

11N40MIMO-Ant2-2422-PASS



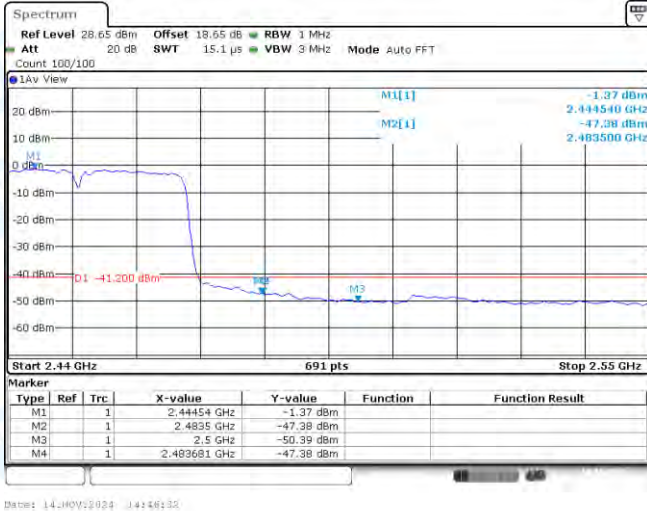
11N40MIMO-Ant1-2422-PASS

11N40MIMO-Ant2-2422-PASS

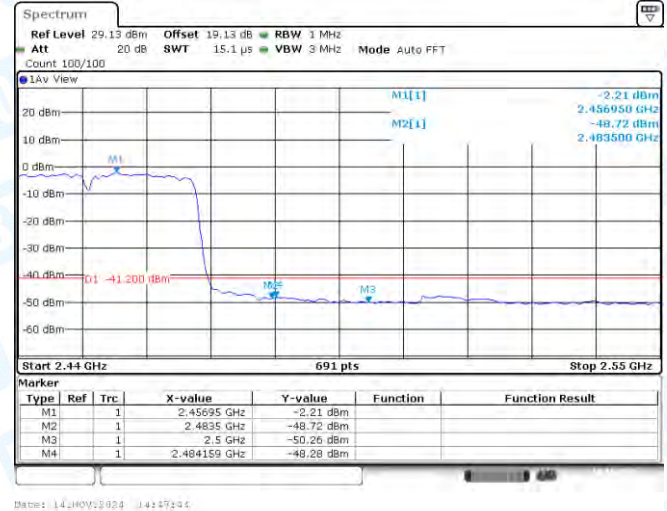


11N40MIMO-Ant1-2452-PASS

11N40MIMO-Ant2-2452-PASS



11N40MIMO-Ant1-2452-PASS



11N40MIMO-Ant2-2452-PASS

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