

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

General Description of EUT	
EUT Name:	HCB2
Model:	73355046
Sample ID:	HC-C-202506-0272-01-01
Test Standard:	FCC Part 15.247
Environmental Conditions	
Ambient Temperature:	25.2℃
Ambient Humidity:	46.5%RH
Test Power Supply:	DC 5V
Test Engineer:	Gold zhang
Note: For a more detailed features description, please refer to the report TBR-C-202506-0272-82	

Contents

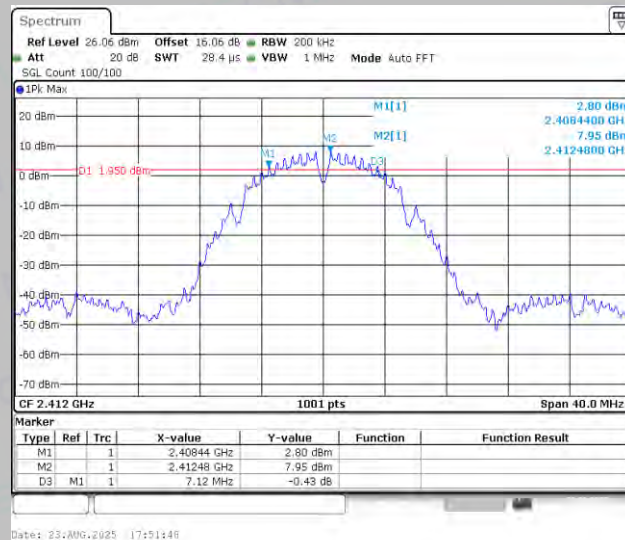
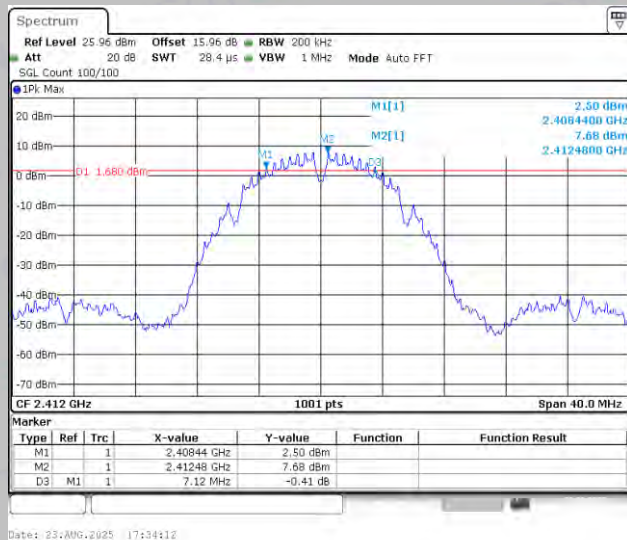
1: DTS Bandwidth.....	3
1.1 Test Result.....	3
1.2 Test Graphs	4
2: Occupied Channel Bandwidth	7
2.1 Test Result.....	7
2.2 Test Graphs	8
3: Maximum conducted output power.....	11
3.1 Test Result Average	11
4: Maximum power spectral density	12
4.1 Test Result.....	12
4.2 Test Graphs	13
5: Band edge measurements	16
5.1 Test Result.....	16
5.2 Test Graphs	17
6: Conducted Spurious Emission.....	19
6.1 Test Result.....	19
6.2 Test Graphs	21
7: Duty Cycle	30
7.1 Test Result.....	30
7.2 Test Graphs	31

1: DTS Bandwidth

1.1 Test Result

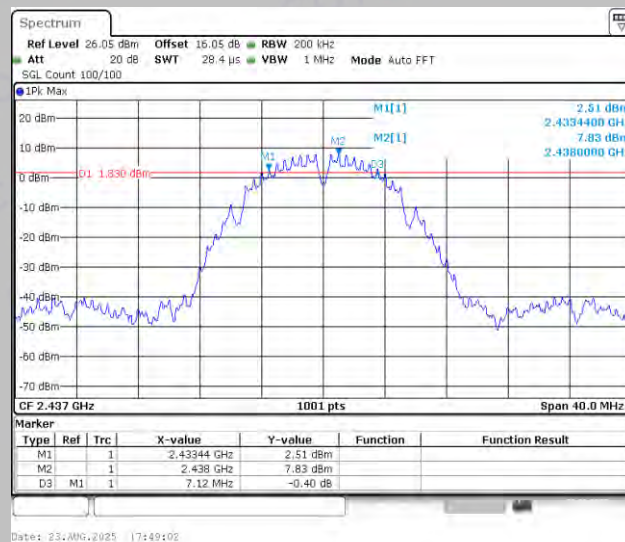
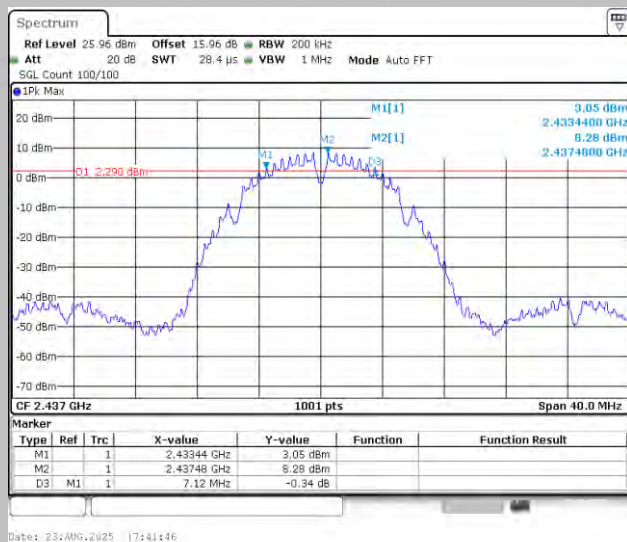
TestMode	Ant.	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	7.12	2408.44	2415.56	0.5	PASS
11B	Ant2	2412	7.12	2408.44	2415.56	0.5	PASS
11B	Ant1	2437	7.12	2433.44	2440.56	0.5	PASS
11B	Ant2	2437	7.12	2433.44	2440.56	0.5	PASS
11B	Ant1	2462	7.12	2458.44	2465.56	0.5	PASS
11B	Ant2	2462	7.56	2458.00	2465.56	0.5	PASS
11G	Ant1	2412	16.04	2404.00	2420.04	0.5	PASS
11G	Ant2	2412	16.00	2403.96	2419.96	0.5	PASS
11G	Ant1	2437	16.04	2428.92	2444.96	0.5	PASS
11G	Ant2	2437	15.96	2429.04	2445.00	0.5	PASS
11G	Ant1	2462	16.04	2454.00	2470.04	0.5	PASS
11G	Ant2	2462	15.32	2454.04	2469.36	0.5	PASS
11N20MIMO	Ant1	2412	16.72	2403.60	2420.32	0.5	PASS
11N20MIMO	Ant2	2412	17.16	2403.24	2420.40	0.5	PASS
11N20MIMO	Ant1	2437	17.20	2428.36	2445.56	0.5	PASS
11N20MIMO	Ant2	2437	16.36	2428.60	2444.96	0.5	PASS
11N20MIMO	Ant1	2462	17.28	2453.36	2470.64	0.5	PASS
11N20MIMO	Ant2	2462	17.12	2453.28	2470.40	0.5	PASS

1.2 Test Graphs



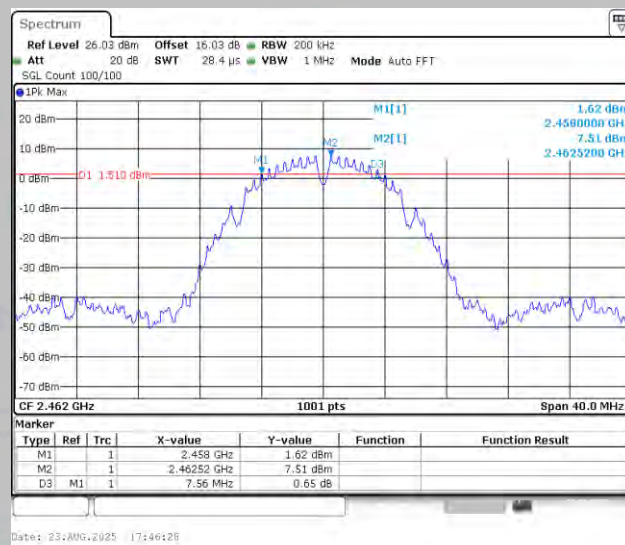
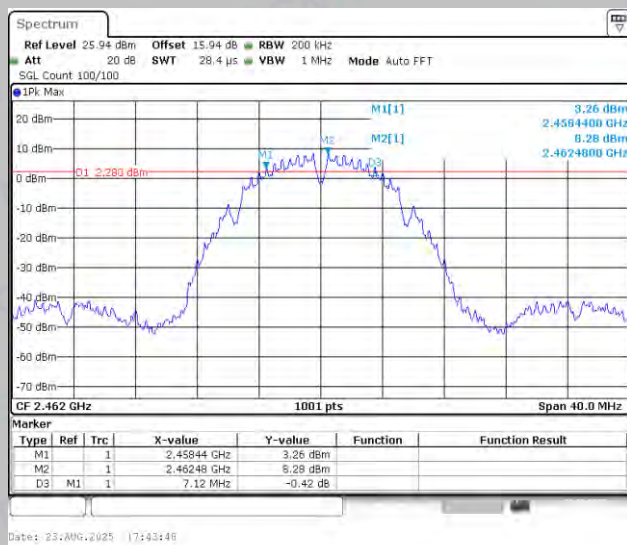
11B-Ant1-2412-PASS

11B-Ant2-2412-PASS



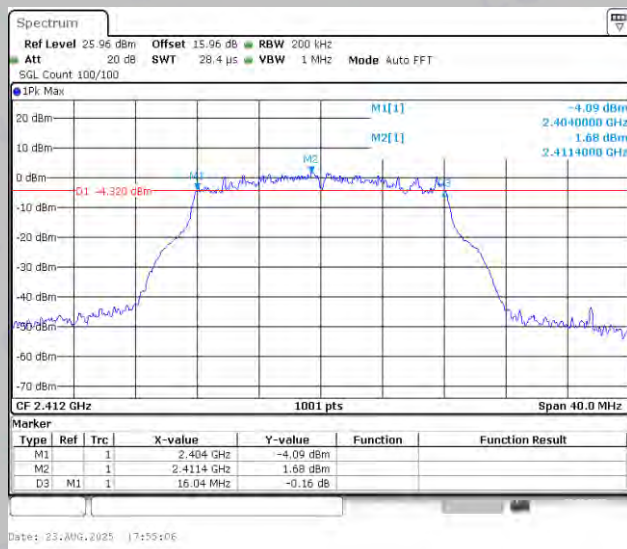
11B-Ant1-2437-PASS

11B-Ant2-2437-PASS

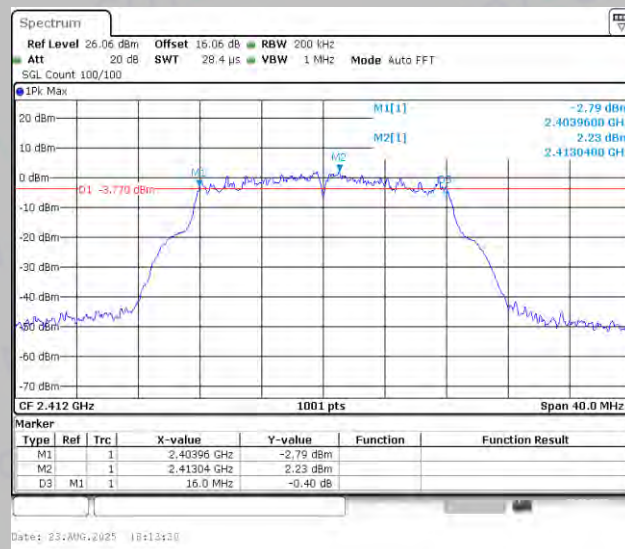


11B-Ant1-2462-PASS

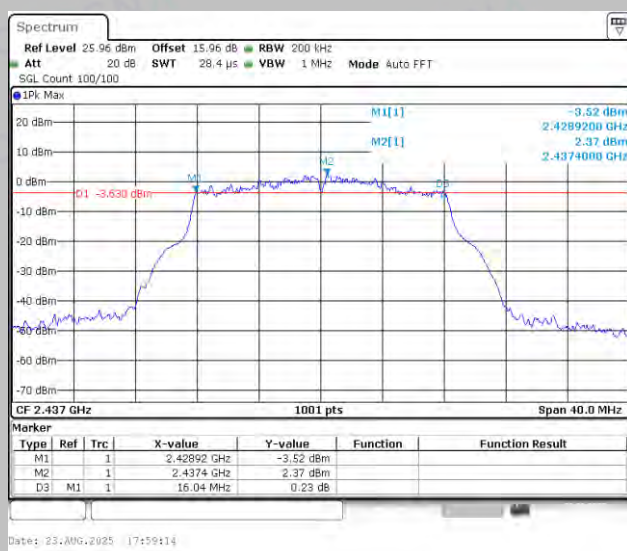
11B-Ant2-2462-PASS



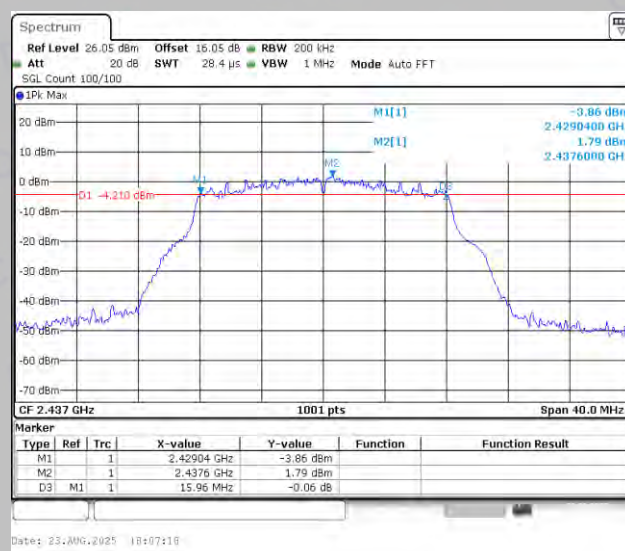
11G-Ant1-2412-PASS



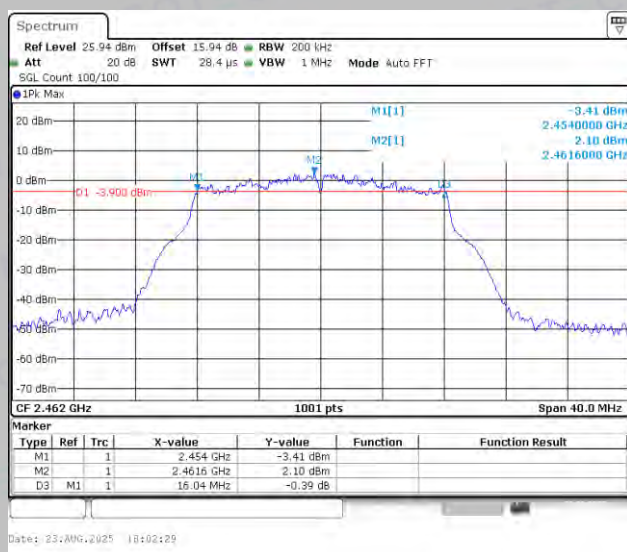
11G-Ant2-2412-PASS



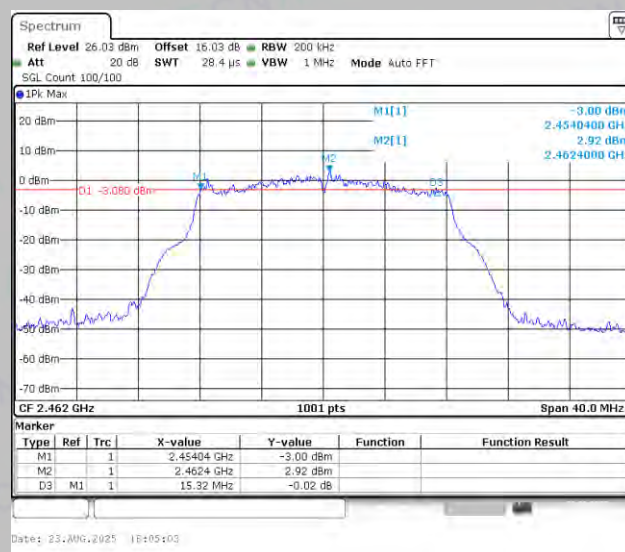
11G-Ant1-2437-PASS



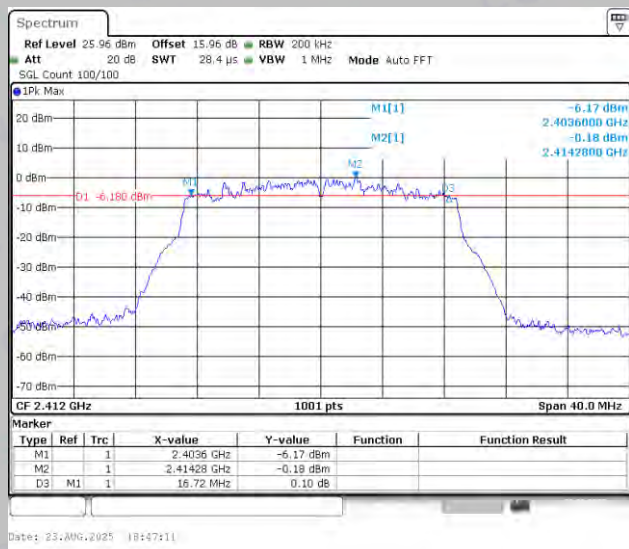
11G-Ant2-2437-PASS



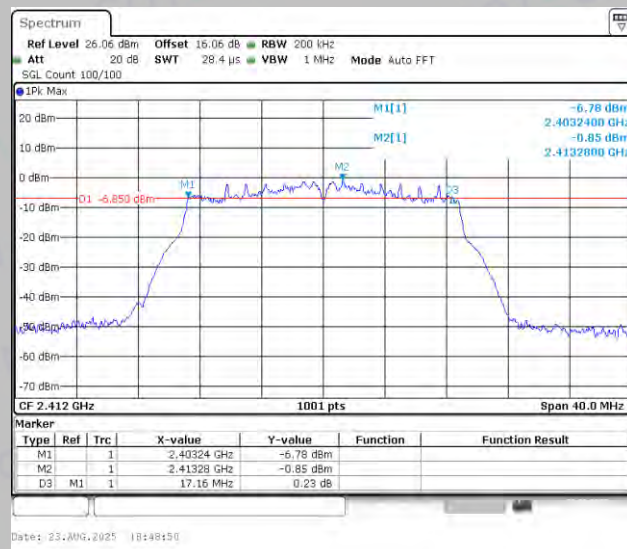
11G-Ant1-2462-PASS



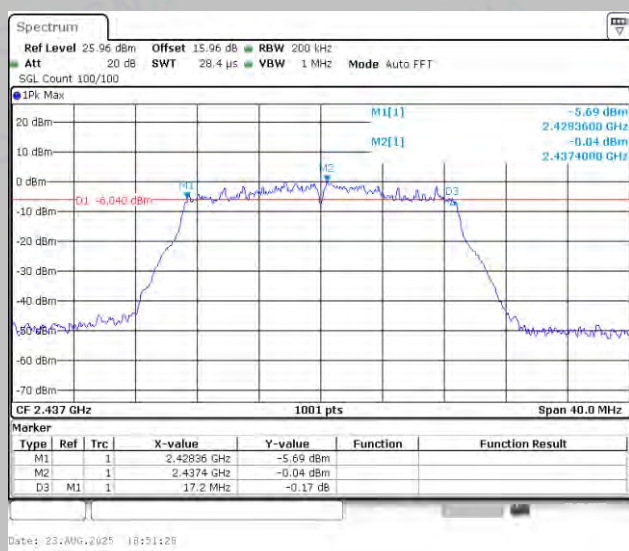
11G-Ant2-2462-PASS



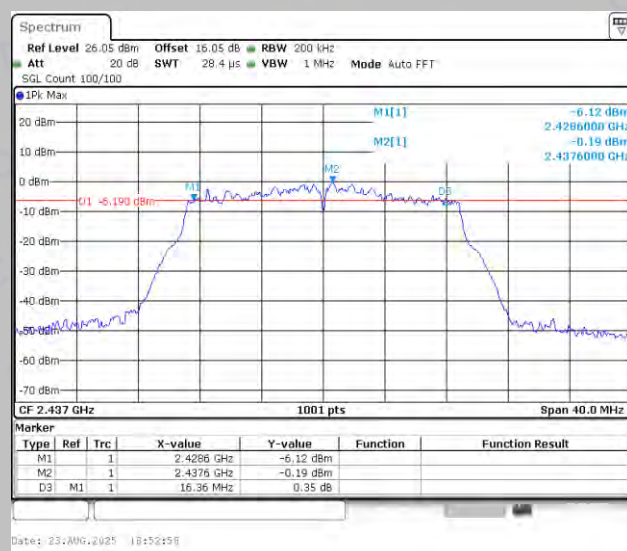
11N20MIMO-Ant1-2412-PASS



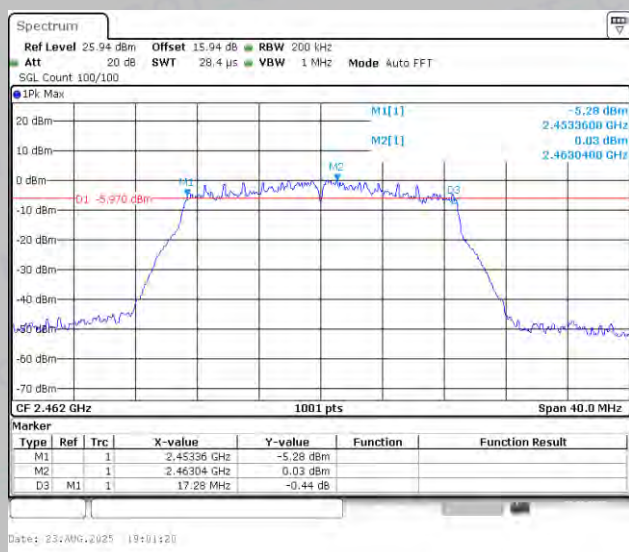
11N20MIMO-Ant2-2412-PASS



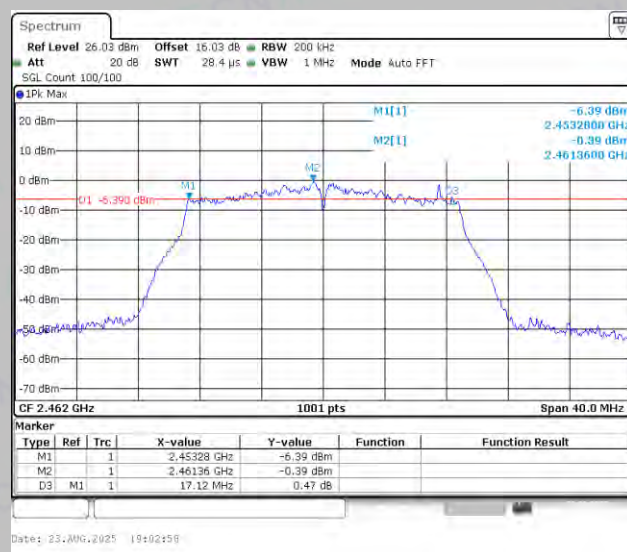
11N20MIMO-Ant1-2437-PASS



11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



11N20MIMO-Ant2-2462-PASS

2: Occupied Channel Bandwidth

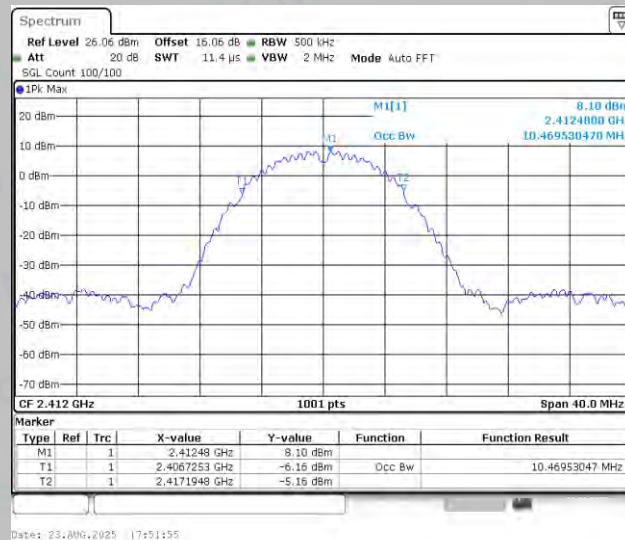
2.1 Test Result

TestMode	Ant.	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	10.470	2406.7253	2417.1948	---	---
11B	Ant2	2412	10.470	2406.7253	2417.1948	---	---
11B	Ant1	2437	10.470	2431.7253	2442.1948	---	---
11B	Ant2	2437	10.390	2431.7652	2442.1548	---	---
11B	Ant1	2462	10.509	2456.7253	2467.2348	---	---
11B	Ant2	2462	10.470	2456.7253	2467.1948	---	---
11G	Ant1	2412	17.223	2403.3686	2420.5914	---	---
11G	Ant2	2412	16.943	2403.2887	2420.2318	---	---
11G	Ant1	2437	17.343	2428.2488	2445.5914	---	---
11G	Ant2	2437	17.343	2428.5684	2445.9111	---	---
11G	Ant1	2462	16.983	2453.4086	2470.3916	---	---
11G	Ant2	2462	17.143	2453.3686	2470.5115	---	---
11N20MIMO	Ant1	2412	17.822	2403.0490	2420.8711	---	---
11N20MIMO	Ant2	2412	18.102	2402.7692	2420.8711	---	---
11N20MIMO	Ant1	2437	18.501	2428.0090	2446.5105	---	---
11N20MIMO	Ant2	2437	17.942	2428.0090	2445.9510	---	---
11N20MIMO	Ant1	2462	18.382	2452.9291	2471.3107	---	---
11N20MIMO	Ant2	2462	18.022	2453.0090	2471.0310	---	---

2.2 Test Graphs



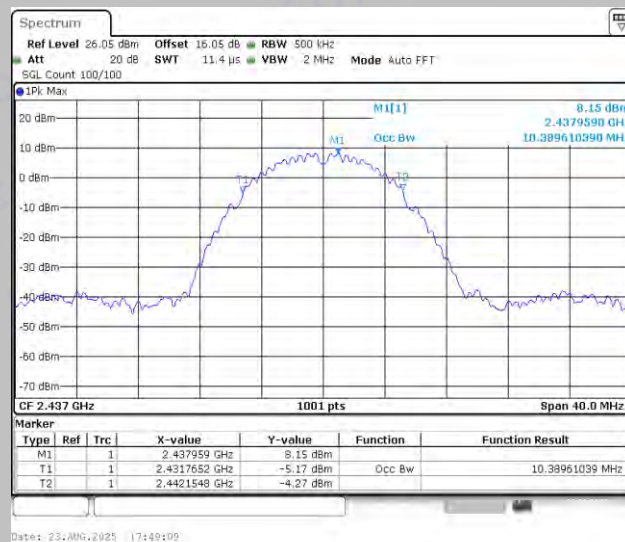
11B-Ant1-2412



11B-Ant2-2412



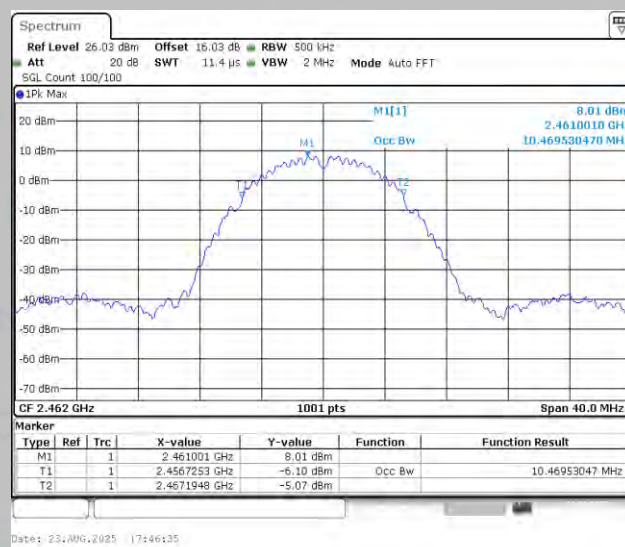
11B-Ant1-2437



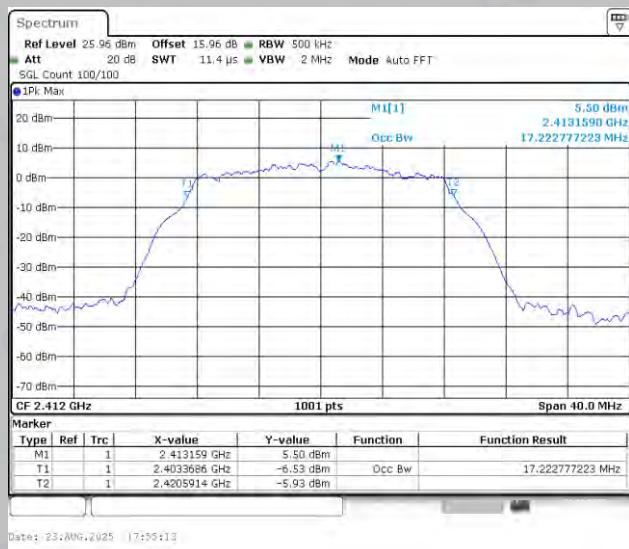
11B-Ant2-2437



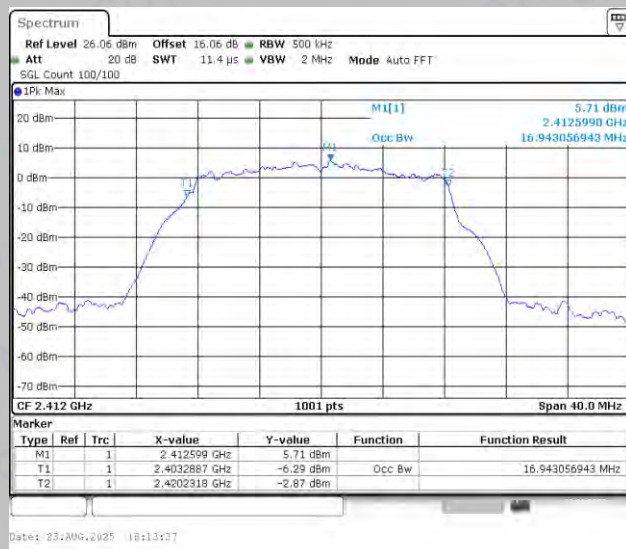
11B-Ant1-2462



11B-Ant2-2462



11G-Ant1-2412



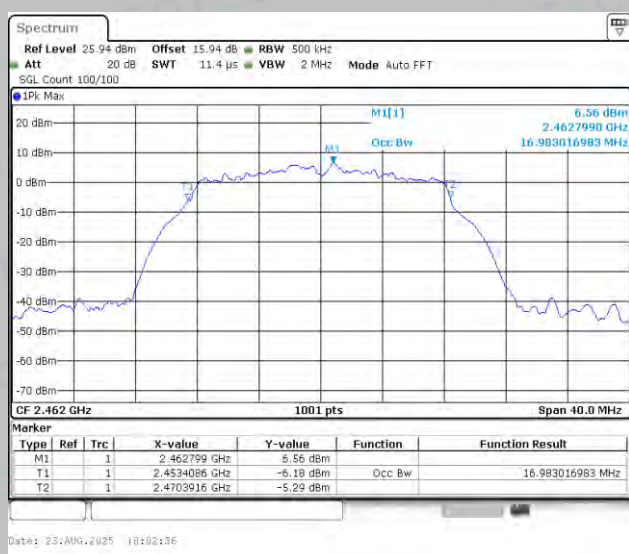
11G-Ant2-2412



11G-Ant1-2437



11G-Ant2-2437



11G-Ant1-2462



11G-Ant2-2462



11N20MIMO-Ant1-2412



11N20MIMO-Ant2-2412



11N20MIMO-Ant1-2437



11N20MIMO-Ant2-2437



11N20MIMO-Ant1-2462



11N20MIMO-Ant2-2462

3: Maximum conducted output power

3.1 Test Result Average

Test Mode	Ant.	Frequency [MHz]	Raw Power [dBm]	DC Factor	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	14.91	0.02	14.93	≤30.00	PASS
11B	Ant2	2412	15.11	0.02	15.13	≤30.00	PASS
11B	Ant1	2437	15.41	0.00	15.41	≤30.00	PASS
11B	Ant2	2437	15.12	0.02	15.14	≤30.00	PASS
11B	Ant1	2462	15.64	0.02	15.66	≤30.00	PASS
11B	Ant2	2462	15.22	0.03	15.25	≤30.00	PASS
11G	Ant1	2412	12.46	0.12	12.58	≤30.00	PASS
11G	Ant2	2412	12.32	0.12	12.44	≤30.00	PASS
11G	Ant1	2437	12.58	0.12	12.70	≤30.00	PASS
11G	Ant2	2437	12.36	0.12	12.48	≤30.00	PASS
11G	Ant1	2462	12.65	0.15	12.80	≤30.00	PASS
11G	Ant2	2462	12.36	0.12	12.48	≤30.00	PASS
11N20MIMO	Ant1	2412	9.72	0.13	9.85	≤30.00	PASS
11N20MIMO	Ant2	2412	9.62	0.13	9.75	≤30.00	PASS
11N20MIMO	total	2412	---	---	12.81	≤30.00	PASS
11N20MIMO	Ant1	2437	10.41	0.13	10.54	≤30.00	PASS
11N20MIMO	Ant2	2437	10.11	0.13	10.24	≤30.00	PASS
11N20MIMO	total	2437	---	---	13.40	≤30.00	PASS
11N20MIMO	Ant1	2462	10.57	0.13	10.70	≤30.00	PASS
11N20MIMO	Ant2	2462	9.67	0.16	9.83	≤30.00	PASS
11N20MIMO	total	2462	---	---	13.30	≤30.00	PASS

Note: For MIMO Mode, Directional gain = G_{ANT} + Array Gain, Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
 $G_{ANT1}=4.0\text{dBi}$; $G_{ANT2}=4.0\text{dBi}$; MIMO Mode use max. antenna Gain, So the Directional gain < 6dBi, So the $P_{limit}=30\text{dBm}$.

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 Factor	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-15.57	0.02	-15.55	≤8.00	PASS
11B	Ant2	2412	-15.33	0.02	-15.31	≤8.00	PASS
11B	Ant1	2437	-14.69	0.00	-14.69	≤8.00	PASS
11B	Ant2	2437	-15.09	0.02	-15.07	≤8.00	PASS
11B	Ant1	2462	-14.91	0.02	-14.89	≤8.00	PASS
11B	Ant2	2462	-15.18	0.03	-15.15	≤8.00	PASS
11G	Ant1	2412	-16.06	0.12	-15.94	≤8.00	PASS
11G	Ant2	2412	-16.42	0.12	-16.30	≤8.00	PASS
11G	Ant1	2437	-16.34	0.12	-16.22	≤8.00	PASS
11G	Ant2	2437	-16.31	0.12	-16.19	≤8.00	PASS
11G	Ant1	2462	-16.22	0.15	-16.07	≤8.00	PASS
11G	Ant2	2462	-16.24	0.12	-16.12	≤8.00	PASS
11N20MIMO	Ant1	2412	-22.7	0.13	-22.57	≤8.00	PASS
11N20MIMO	Ant2	2412	-22.63	0.13	-22.50	≤8.00	PASS
11N20MIMO	total	2412	---	---	-19.52	≤6.99	PASS
11N20MIMO	Ant1	2437	-22.07	0.13	-21.94	≤8.00	PASS
11N20MIMO	Ant2	2437	-21.43	0.13	-21.30	≤8.00	PASS
11N20MIMO	total	2437	---	---	-18.60	≤6.99	PASS
11N20MIMO	Ant1	2462	-22.31	0.13	-22.18	≤8.00	PASS
11N20MIMO	Ant2	2462	-22.76	0.16	-22.60	≤8.00	PASS
11N20MIMO	total	2462	---	---	-19.37	≤6.99	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=7.01dBi > 6dBi. (Ant.1: 4dBi; Ant.2: 4dBi)

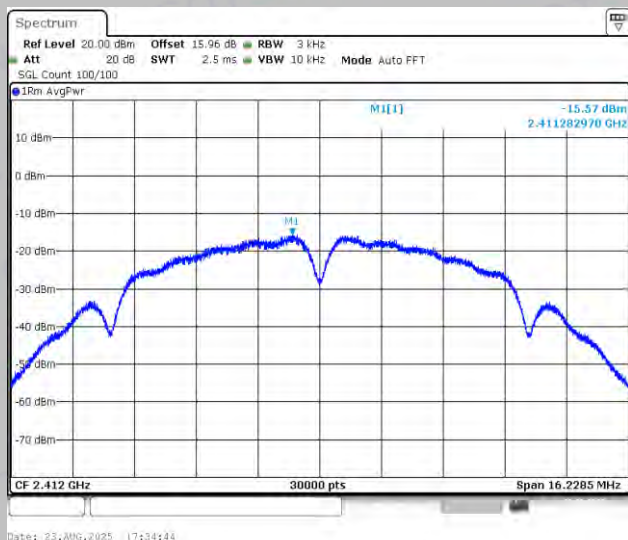
$$\text{So } \text{PSD}_{\text{out}} = \text{PSD}_{\text{limit}} - (G_{\text{TX}} - 6) = (8 - 1.01) \text{dBm/3kHz} = 6.99 \text{dBm/3kHz}$$

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

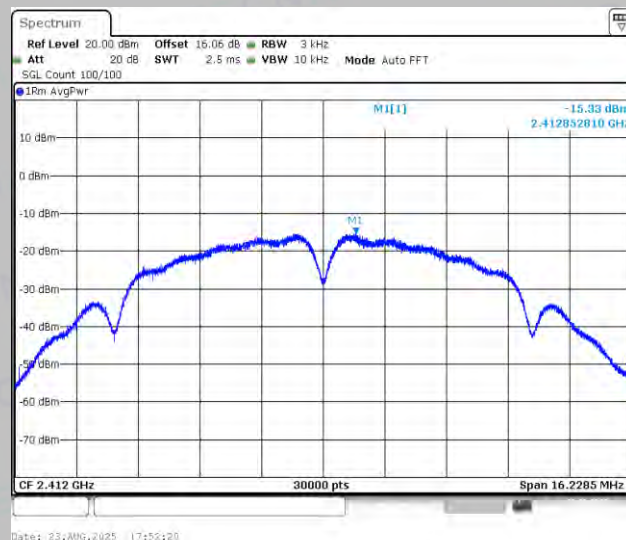
Note

1. The Duty Cycle Factor and RBW Factor is compensated in the graph.
2. Note: RF Conducted test Offset= cable loss+ Attenuator(10dB).

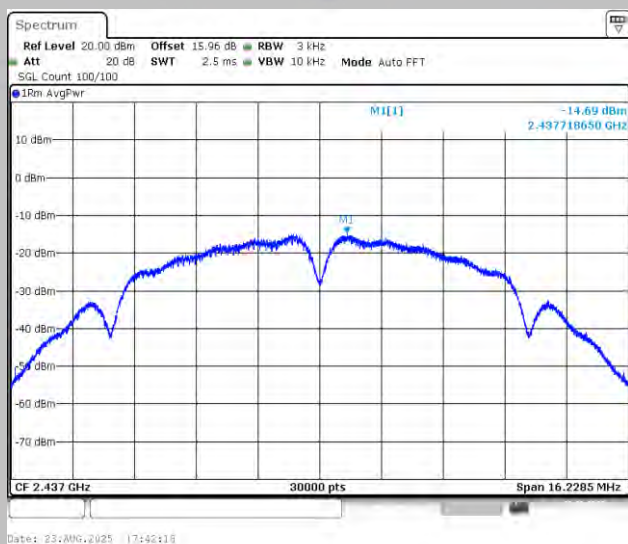
4.2 Test Graphs



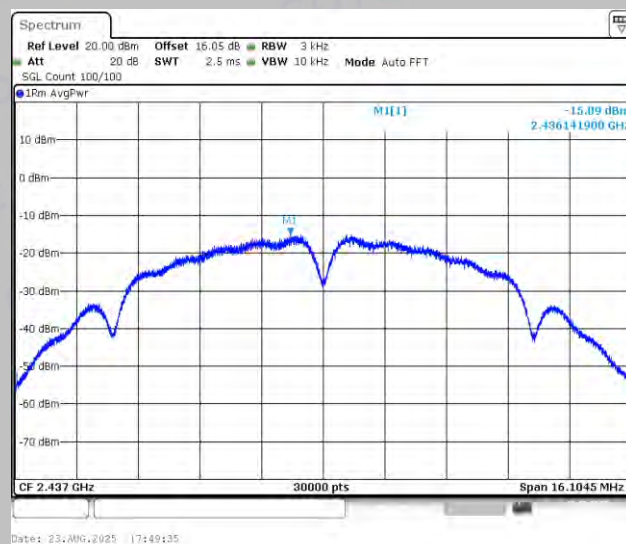
11B-Ant1-2412-PASS



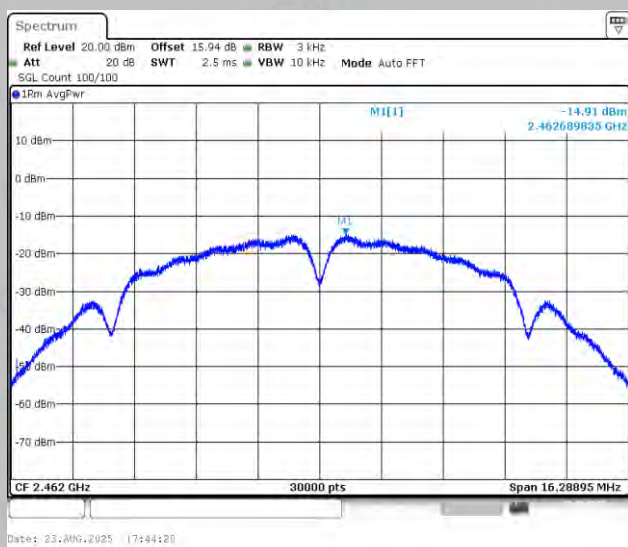
11B-Ant2-2412-PASS



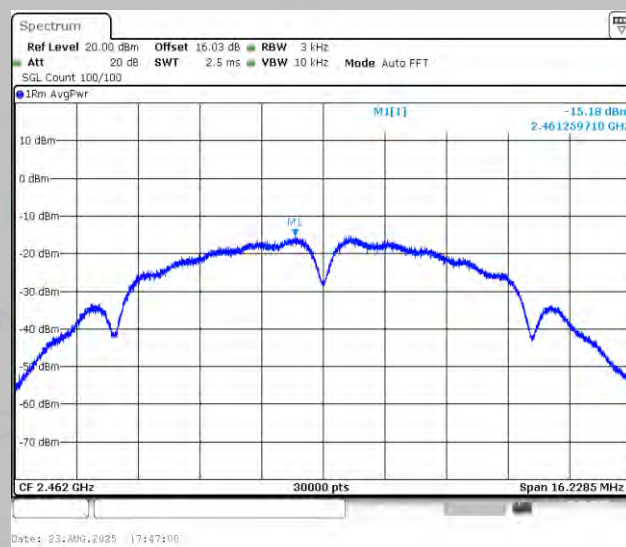
11B-Ant1-2437-PASS



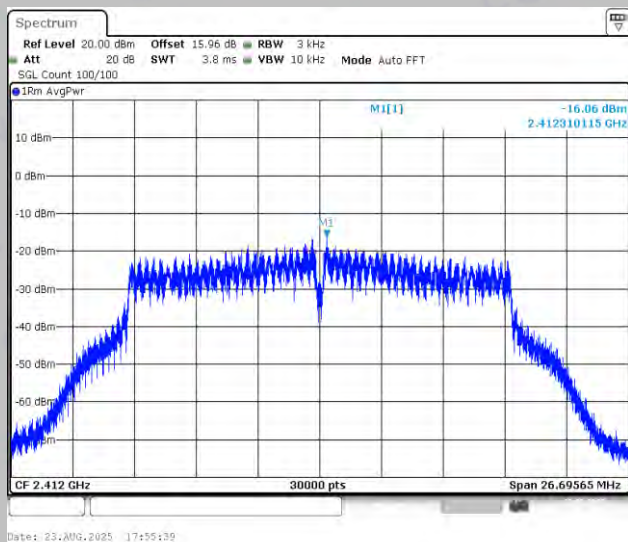
11B-Ant2-2437-PASS



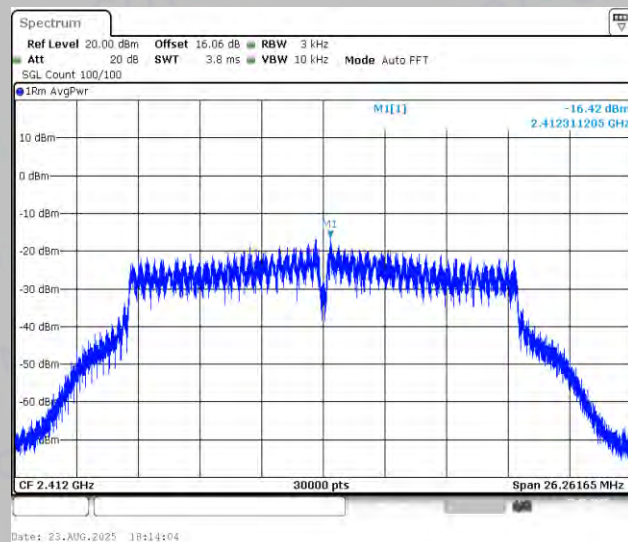
11B-Ant1-2462-PASS



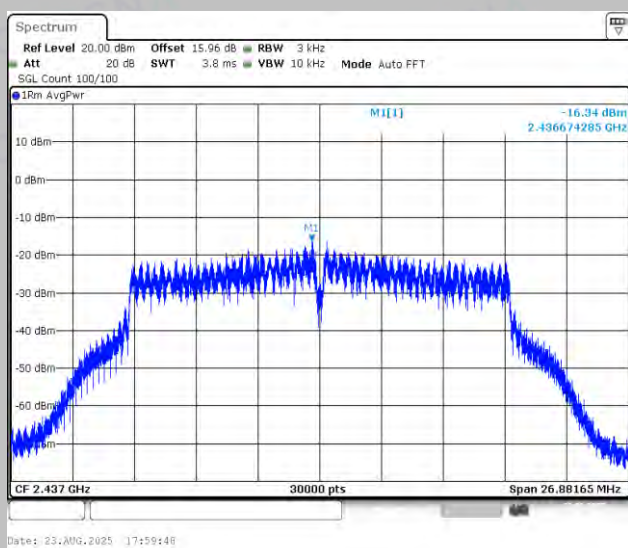
11B-Ant2-2462-PASS



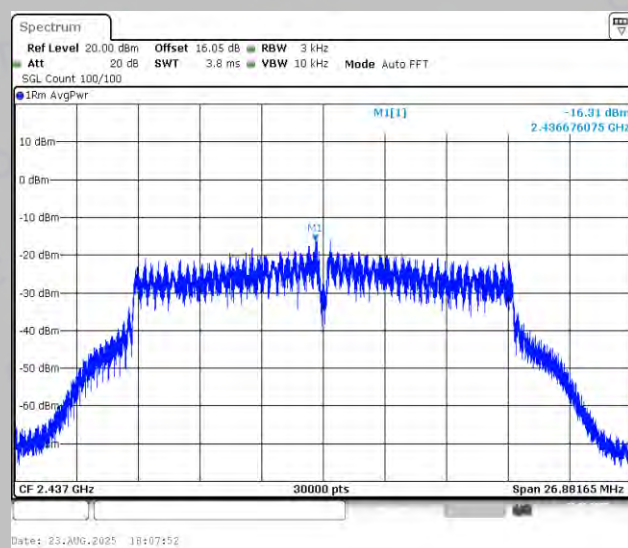
11G-Ant1-2412-PASS



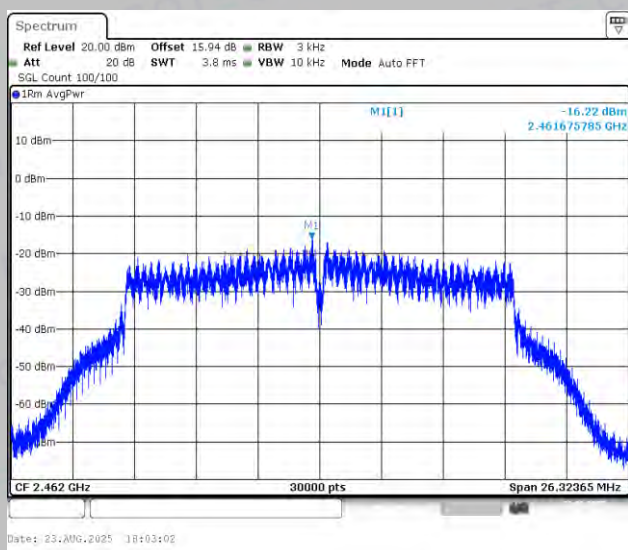
11G-Ant2-2412-PASS



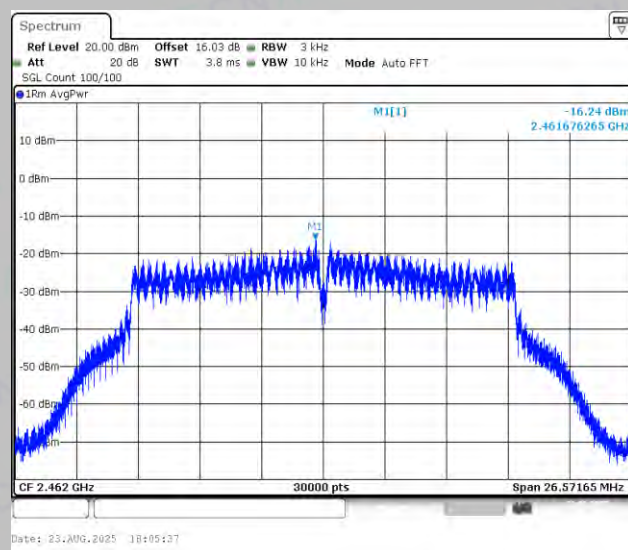
11G-Ant1-2437-PASS



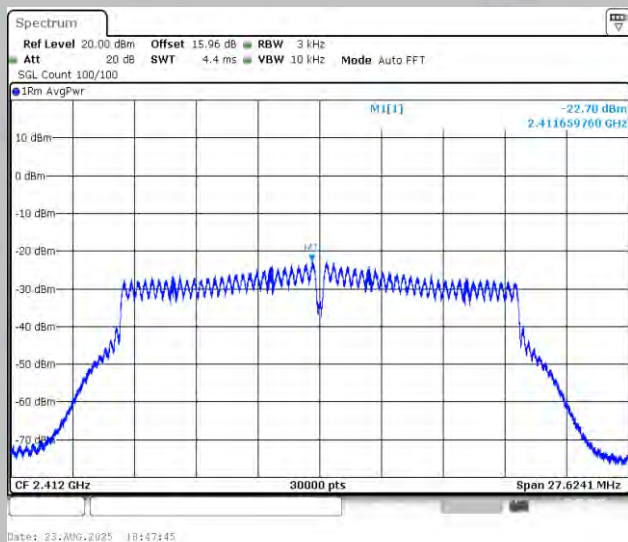
11G-Ant2-2437-PASS



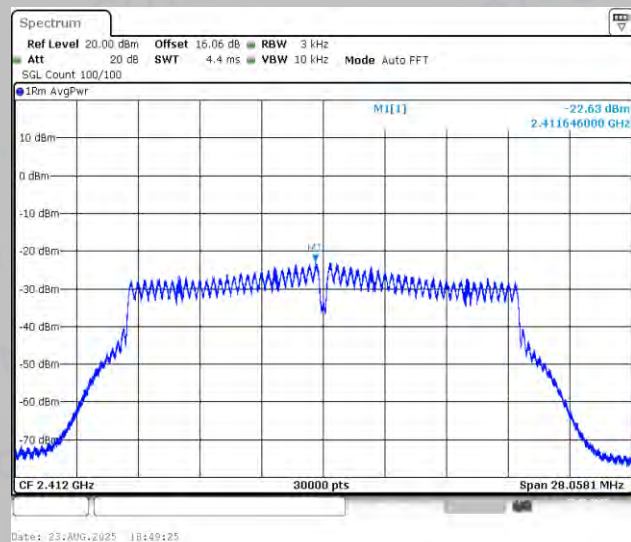
11G-Ant1-2462-PASS



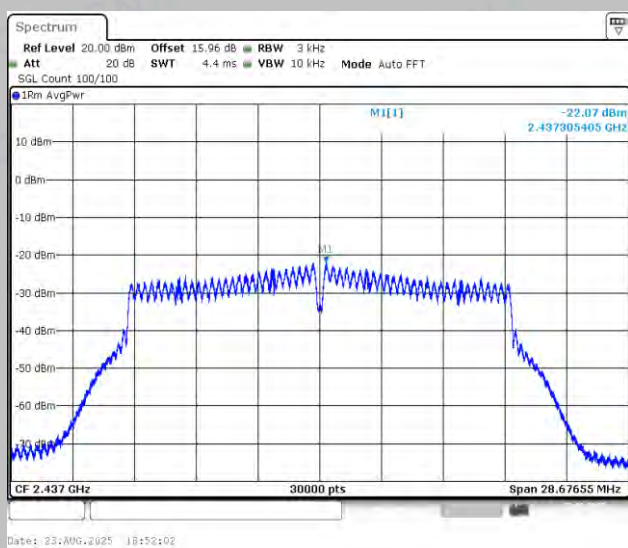
11G-Ant2-2462-PASS



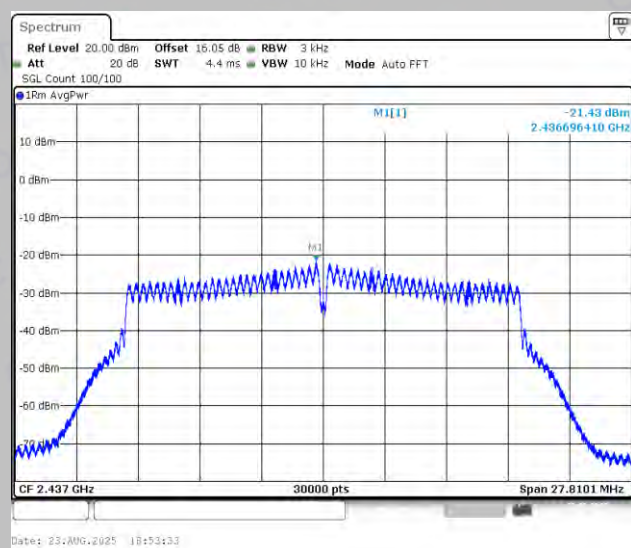
11N20MIMO-Ant1-2412-PASS



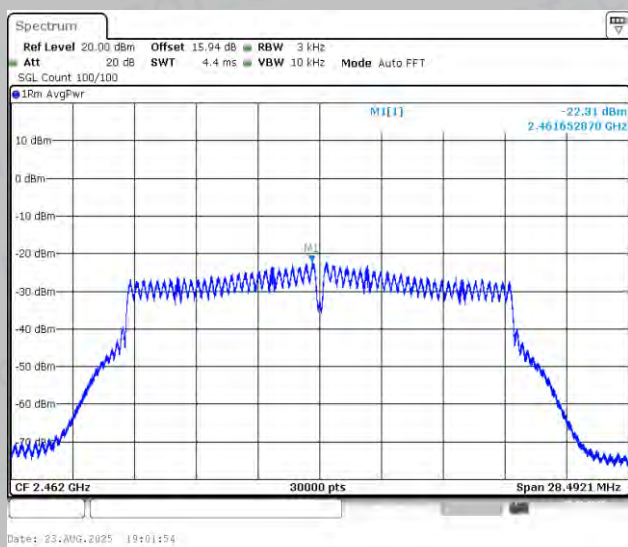
11N20MIMO-Ant2-2412-PASS



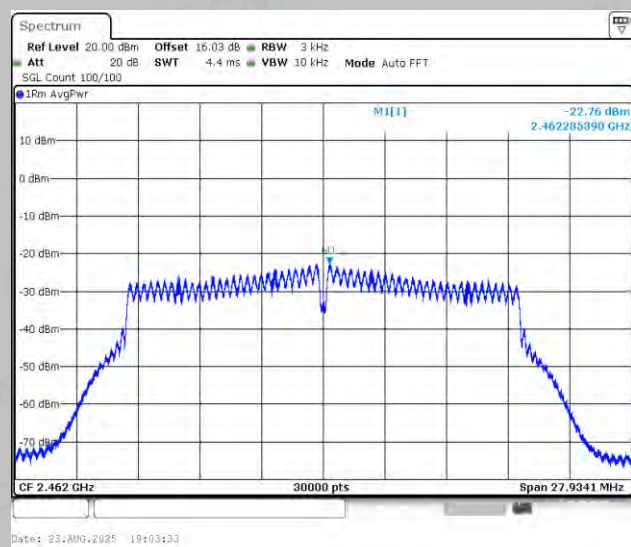
11N20MIMO-Ant1-2437-PASS



11N20MIMO-Ant2-2437-PASS



11N20MIMO-Ant1-2462-PASS



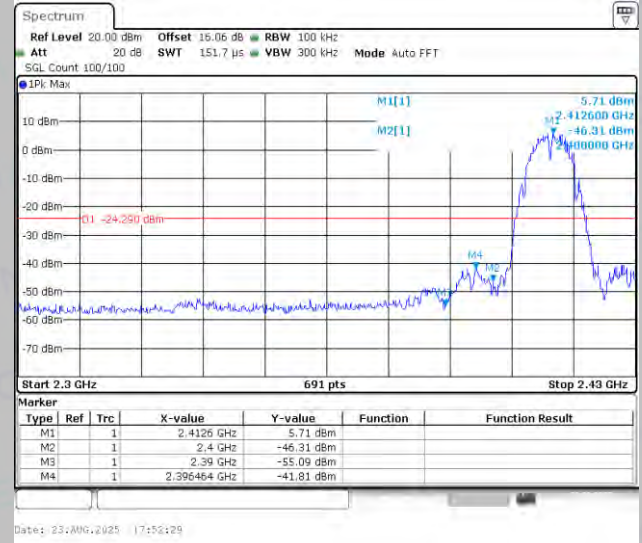
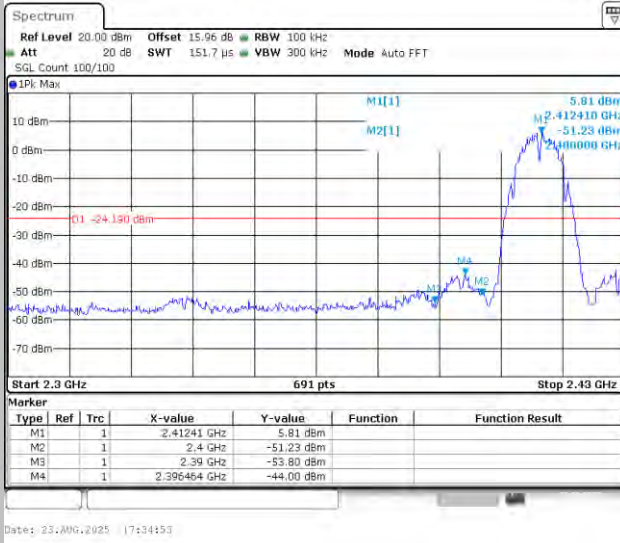
11N20MIMO-Ant2-2462-PASS

5: Band edge measurements

5.1 Test Result

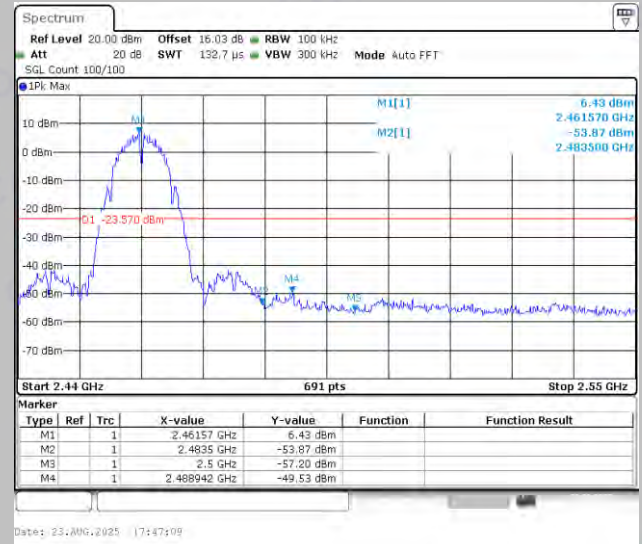
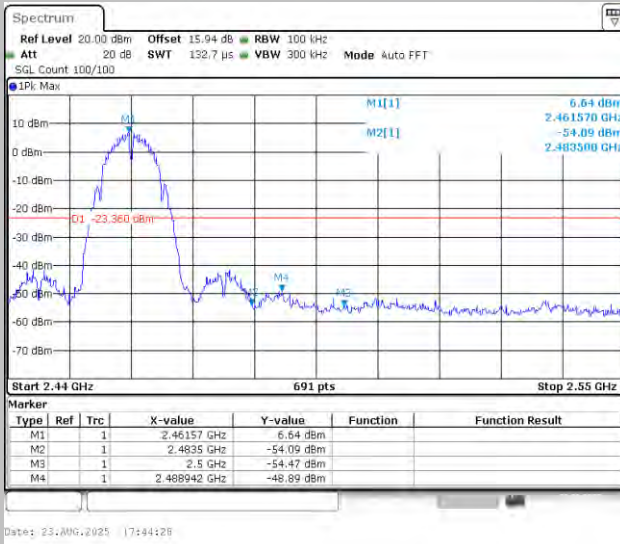
TestMode	Ant.	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	5.81	-44	≤ -24.19	PASS
11B	Ant2	Low	2412	5.71	-41.81	≤ -24.29	PASS
11B	Ant1	High	2462	6.64	-48.89	≤ -23.36	PASS
11B	Ant2	High	2462	6.43	-49.53	≤ -23.57	PASS
11G	Ant1	Low	2412	-0.49	-44.21	≤ -30.49	PASS
11G	Ant2	Low	2412	-0.50	-43.79	≤ -30.5	PASS
11G	Ant1	High	2462	0.04	-51.23	≤ -29.96	PASS
11G	Ant2	High	2462	-0.56	-51.23	≤ -30.56	PASS
11N20MIMO	Ant1	Low	2412	-3.37	-46.97	≤ -33.37	PASS
11N20MIMO	Ant2	Low	2412	-2.82	-47.56	≤ -32.82	PASS
11N20MIMO	Ant1	High	2462	-2.12	-51.16	≤ -32.12	PASS
11N20MIMO	Ant2	High	2462	-2.47	-50.16	≤ -32.47	PASS

5.2 Test Graphs



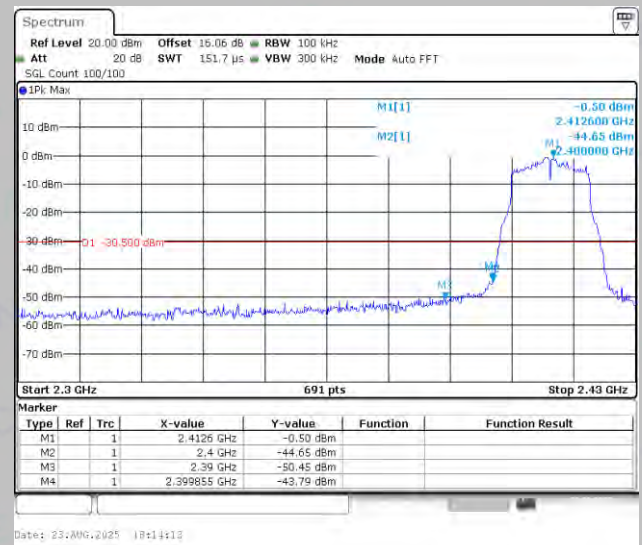
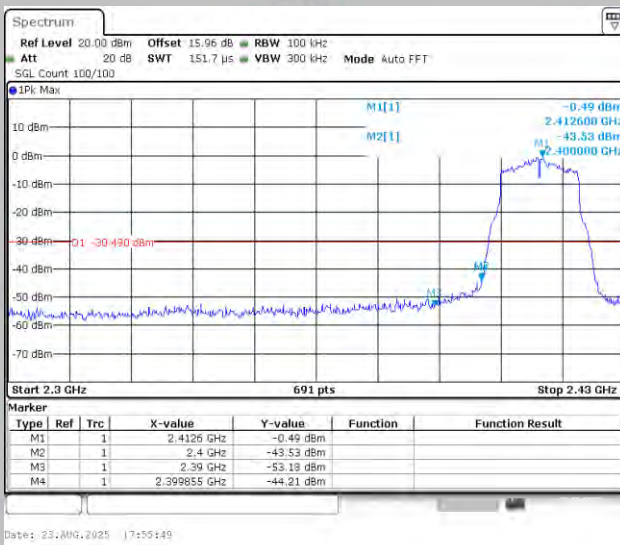
11B-Ant1-2412-PASS

11B-Ant2-2412-PASS



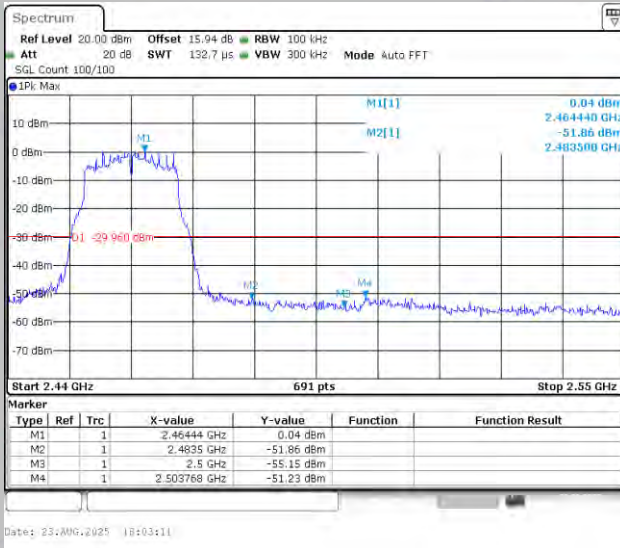
11B-Ant1-2462-PASS

11B-Ant2-2462-PASS

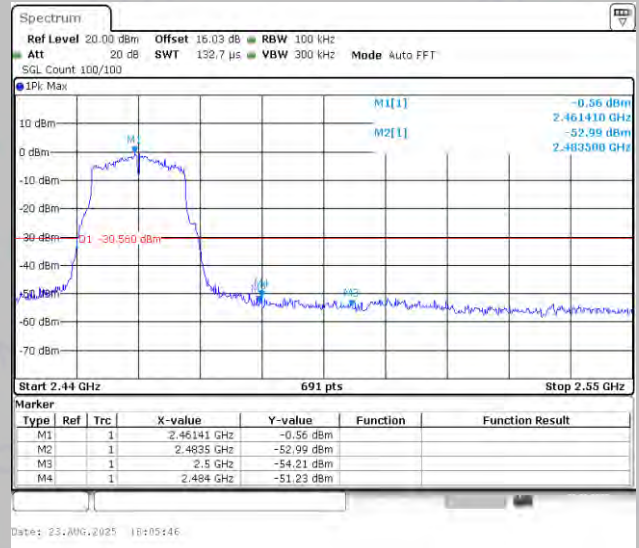


11G-Ant1-2412-PASS

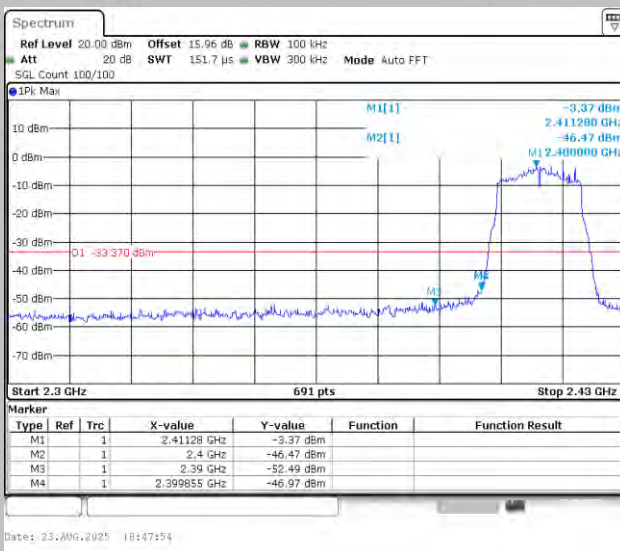
11G-Ant2-2412-PASS



11G-Ant1-2462-PASS



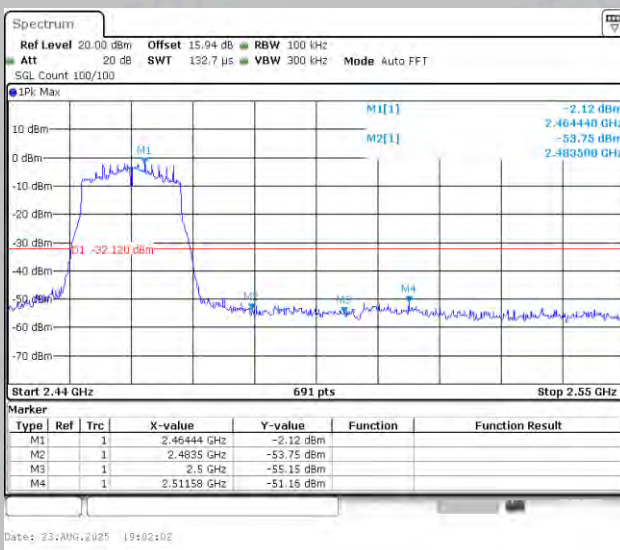
11G-Ant2-2462-PASS



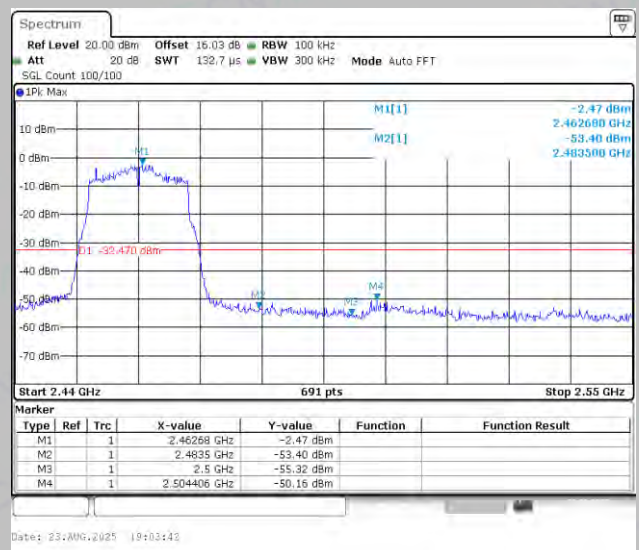
11N20MIMO-Ant1-2412-PASS



11N20MIMO-Ant2-2412-PASS



11N20MIMO-Ant1-2462-PASS



11N20MIMO-Ant2-2462-PASS

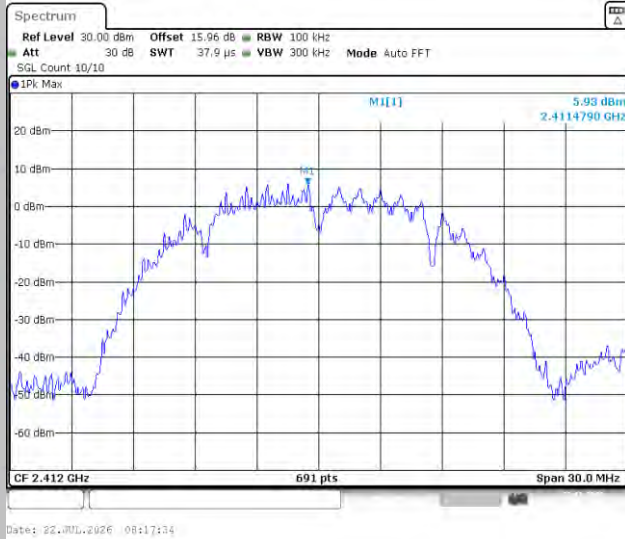
6: Conducted Spurious Emission

6.1 Test Result

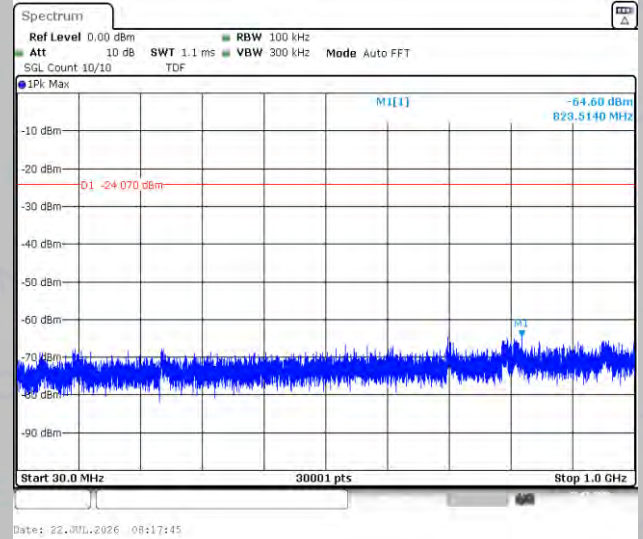
TestMode	Ant.	Frequency [MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	5.93	5.93	---	PASS
11B	Ant1	2412	30~1000	5.93	-64.6	≤-24.07	PASS
11B	Ant1	2412	1000~26500	5.93	-36.83	≤-24.07	PASS
11B	Ant2	2412	0~Reference	5.04	5.04	---	PASS
11B	Ant2	2412	30~1000	5.04	-64.16	≤-24.96	PASS
11B	Ant2	2412	1000~26500	5.04	-37.12	≤-24.96	PASS
11B	Ant1	2437	0~Reference	4.16	4.16	---	PASS
11B	Ant1	2437	30~1000	4.16	-63.79	≤-25.84	PASS
11B	Ant1	2437	1000~26500	4.16	-36.49	≤-25.84	PASS
11B	Ant2	2437	0~Reference	4.57	4.57	---	PASS
11B	Ant2	2437	30~1000	4.57	-63.39	≤-25.43	PASS
11B	Ant2	2437	1000~26500	4.57	-37.04	≤-25.43	PASS
11B	Ant1	2462	0~Reference	6.19	6.19	---	PASS
11B	Ant1	2462	30~1000	6.19	-64.4	≤-23.81	PASS
11B	Ant1	2462	1000~26500	6.19	-37.01	≤-23.81	PASS
11B	Ant2	2462	0~Reference	6.59	6.59	---	PASS
11B	Ant2	2462	30~1000	6.59	-62.92	≤-23.41	PASS
11B	Ant2	2462	1000~26500	6.59	-37.18	≤-23.41	PASS
11G	Ant1	2412	0~Reference	0.10	0.10	---	PASS
11G	Ant1	2412	30~1000	0.10	-63.59	≤-29.9	PASS
11G	Ant1	2412	1000~26500	0.10	-37.56	≤-29.9	PASS
11G	Ant2	2412	0~Reference	-0.21	-0.21	---	PASS
11G	Ant2	2412	30~1000	-0.21	-63.8	≤-30.21	PASS
11G	Ant2	2412	1000~26500	-0.21	-36.54	≤-30.21	PASS
11G	Ant1	2437	0~Reference	0.39	0.39	---	PASS
11G	Ant1	2437	30~1000	0.39	-62.92	≤-29.61	PASS
11G	Ant1	2437	1000~26500	0.39	-36.23	≤-29.61	PASS
11G	Ant2	2437	0~Reference	-1.18	-1.18	---	PASS
11G	Ant2	2437	30~1000	-1.18	-64.3	≤-31.18	PASS
11G	Ant2	2437	1000~26500	-1.18	-37.86	≤-31.18	PASS
11G	Ant1	2462	0~Reference	0.11	0.11	---	PASS
11G	Ant1	2462	30~1000	0.11	-63.08	≤-29.89	PASS
11G	Ant1	2462	1000~26500	0.11	-37.57	≤-29.89	PASS
11G	Ant2	2462	0~Reference	-1.13	-1.13	---	PASS
11G	Ant2	2462	30~1000	-1.13	-64.12	≤-31.13	PASS
11G	Ant2	2462	1000~26500	-1.13	-36.96	≤-31.13	PASS
11N20MIMO	Ant1	2412	0~Reference	1.95	1.95	---	PASS
11N20MIMO	Ant1	2412	30~1000	1.95	-63.67	≤-28.05	PASS
11N20MIMO	Ant1	2412	1000~26500	1.95	-37.46	≤-28.05	PASS
11N20MIMO	Ant2	2412	0~Reference	-1.19	-1.19	---	PASS
11N20MIMO	Ant2	2412	30~1000	-1.19	-64.83	≤-31.19	PASS
11N20MIMO	Ant2	2412	1000~26500	-1.19	-37.08	≤-31.19	PASS

11N20MIMO	Ant1	2437	0~Reference	-0.49	-0.49	---	PASS
11N20MIMO	Ant1	2437	30~1000	-0.49	-63.11	≤ -30.49	PASS
11N20MIMO	Ant1	2437	1000~26500	-0.49	-36.05	≤ -30.49	PASS
11N20MIMO	Ant2	2437	0~Reference	2.20	2.20	---	PASS
11N20MIMO	Ant2	2437	30~1000	2.20	-64.31	≤ -27.8	PASS
11N20MIMO	Ant2	2437	1000~26500	2.20	-37.6	≤ -27.8	PASS
11N20MIMO	Ant1	2462	0~Reference	0.15	0.15	---	PASS
11N20MIMO	Ant1	2462	30~1000	0.15	-63.61	≤ -29.85	PASS
11N20MIMO	Ant1	2462	1000~26500	0.15	-37.4	≤ -29.85	PASS
11N20MIMO	Ant2	2462	0~Reference	-1.43	-1.43	---	PASS
11N20MIMO	Ant2	2462	30~1000	-1.43	-63.31	≤ -31.43	PASS
11N20MIMO	Ant2	2462	1000~26500	-1.43	-37.67	≤ -31.43	PASS

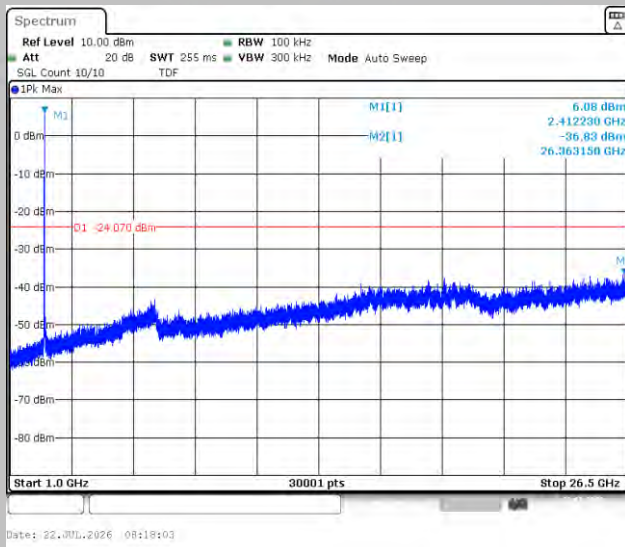
6.2 Test Graphs



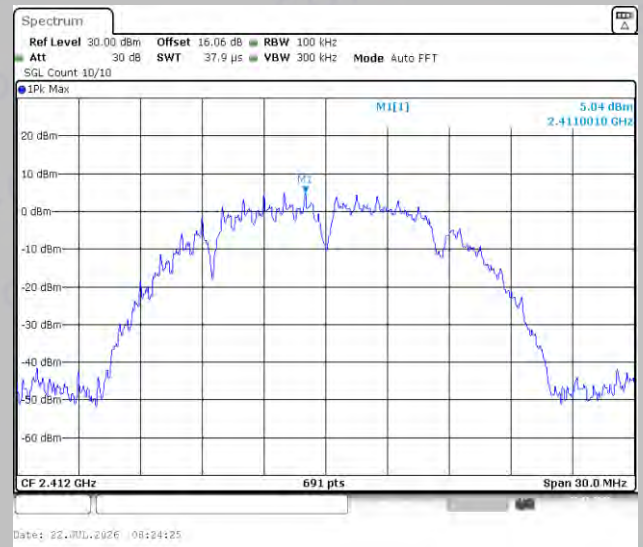
11B-Ant1-2412-0~Reference-PASS



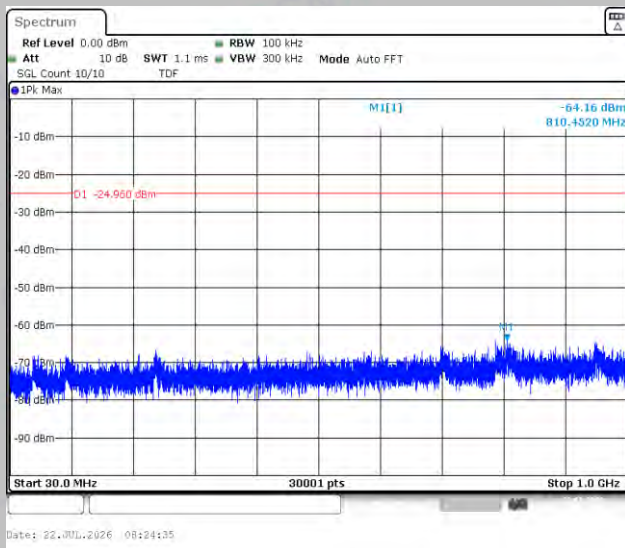
11B-Ant1-2412-30~1000-PASS



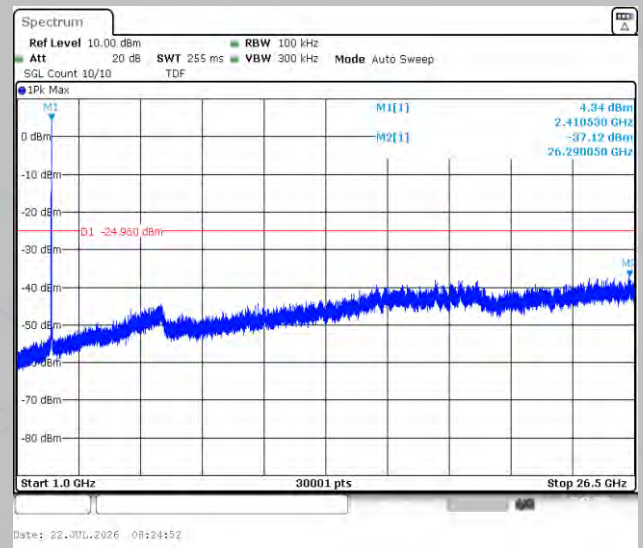
11B-Ant1-2412-1000~26500-PASS



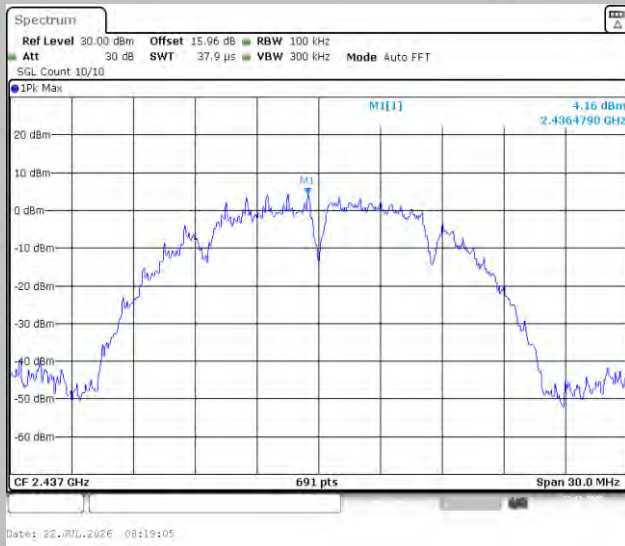
11B-Ant2-2412-0~Reference-PASS



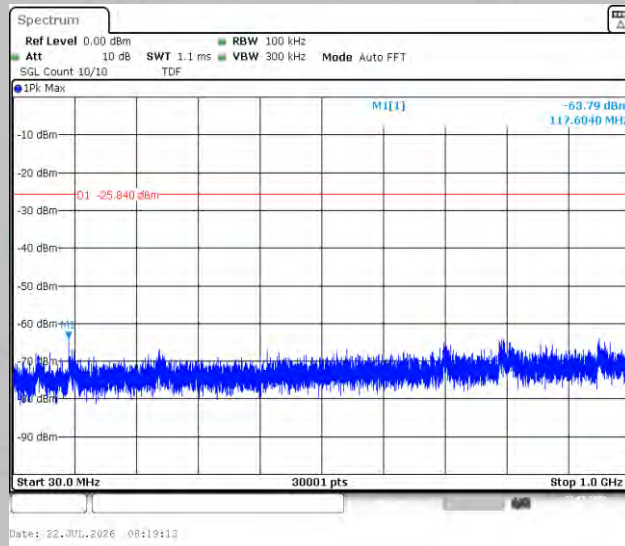
11B-Ant2-2412-30~1000-PASS



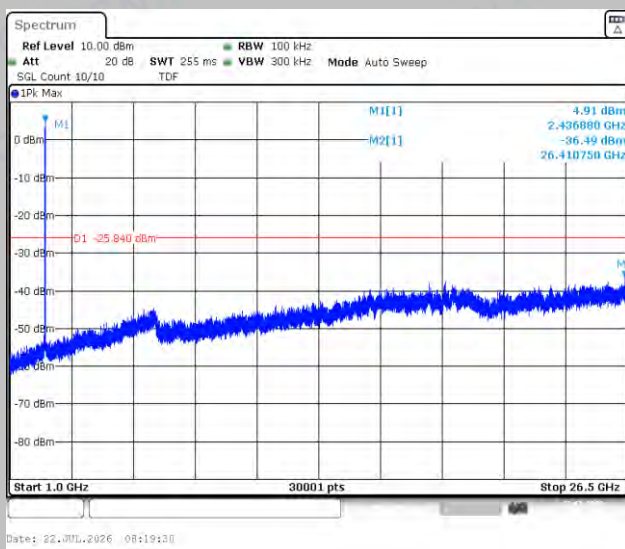
11B-Ant2-2412-1000~26500-PASS



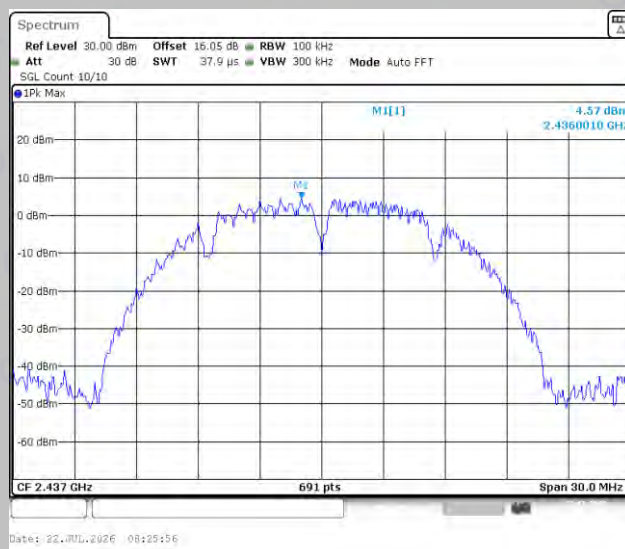
11B-Ant1-2437-0~Reference-PASS



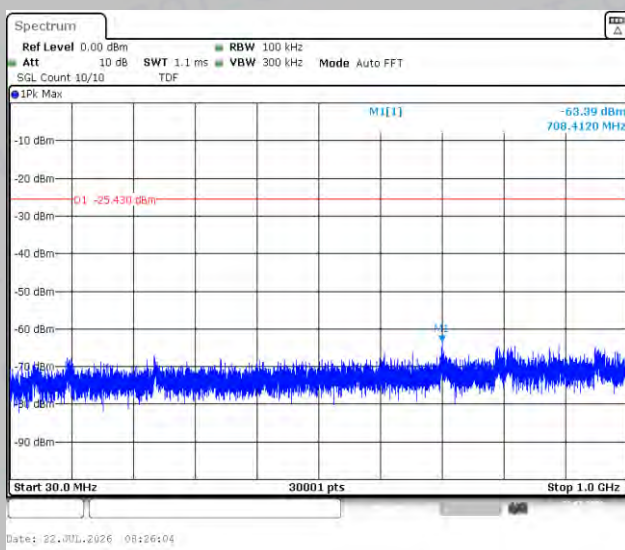
11B-Ant1-2437-30~1000-PASS



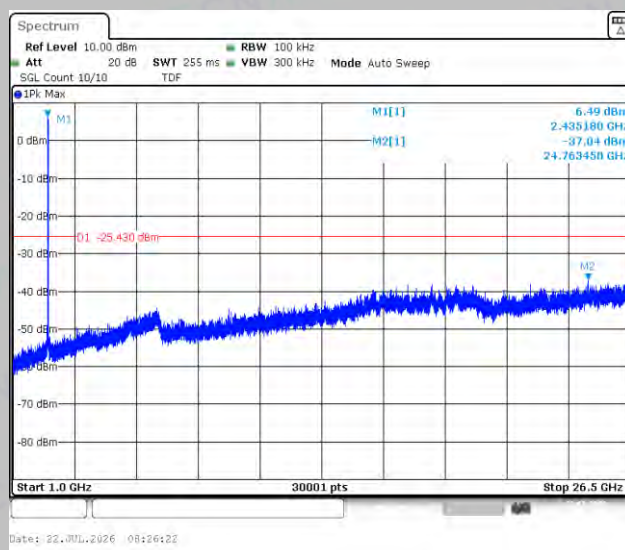
11B-Ant1-2437-1000~26500-PASS



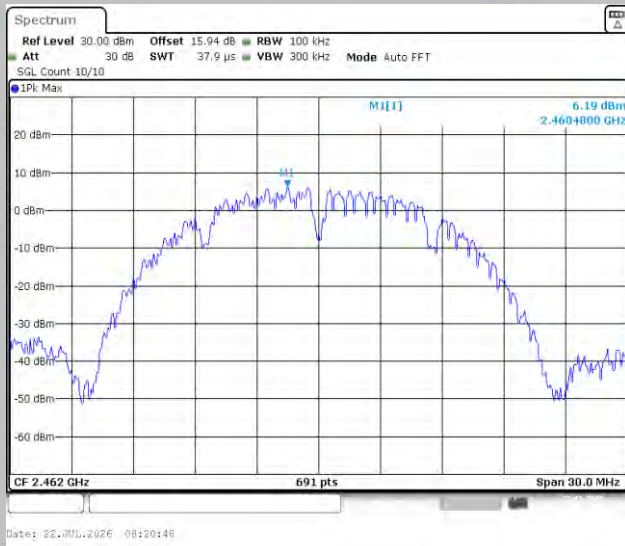
11B-Ant2-2437-0~Reference-PASS



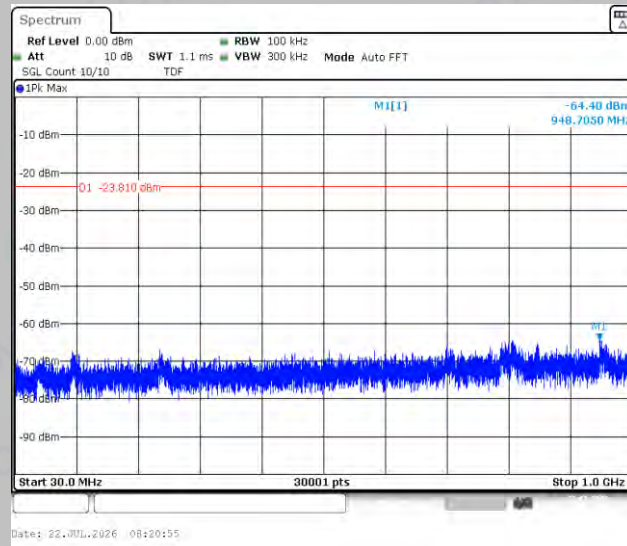
11B-Ant2-2437-30~1000-PASS



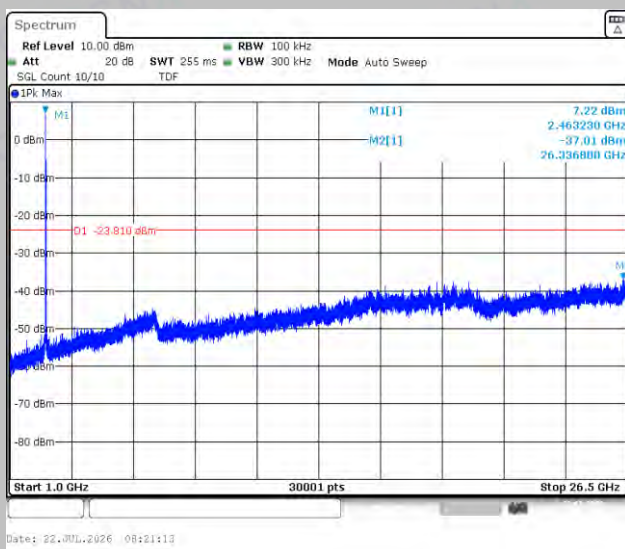
11B-Ant2-2437-1000~26500-PASS



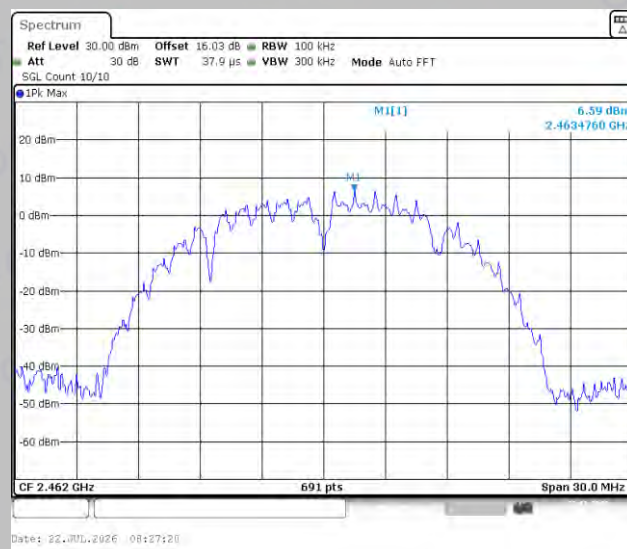
11B-Ant1-2462-0~Reference-PASS



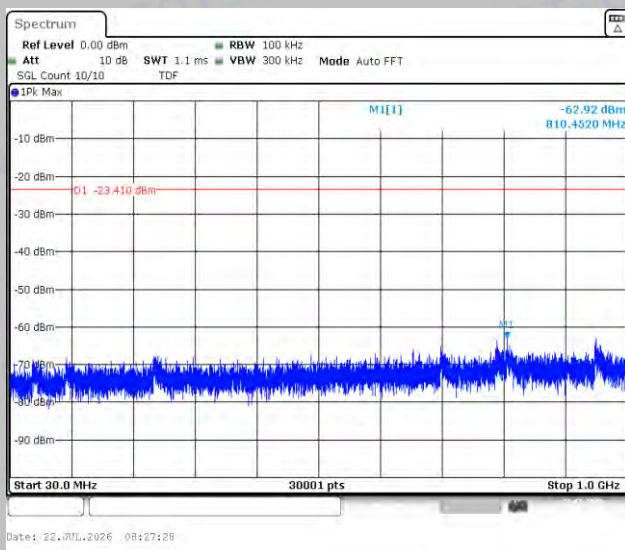
11B-Ant1-2462-30~1000-PASS



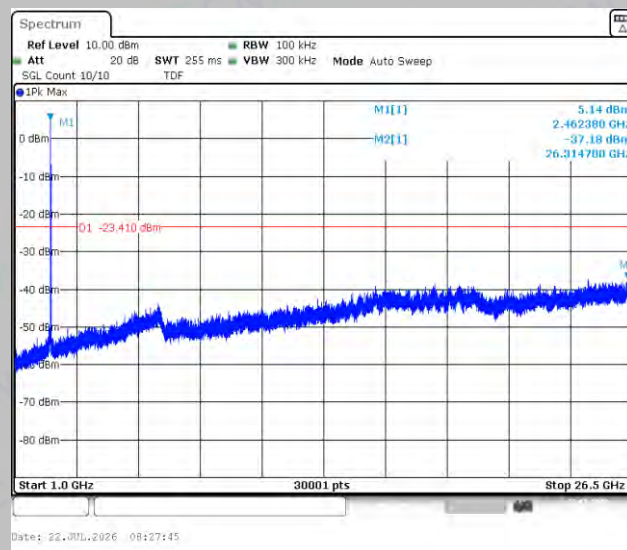
11B-Ant1-2462-1000~26500-PASS



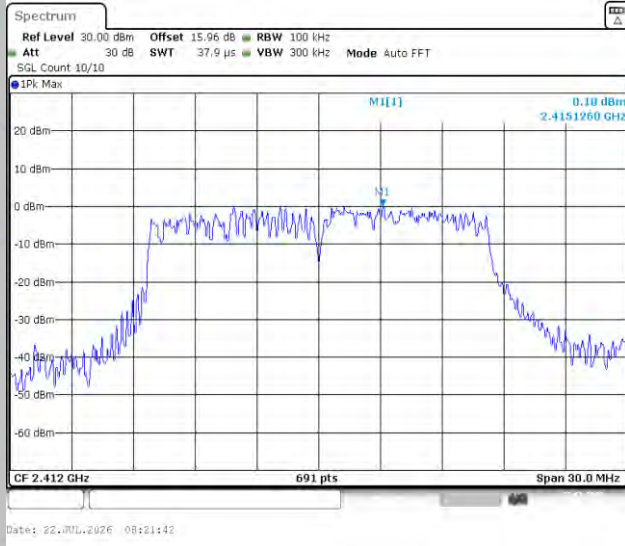
11B-Ant2-2462-0~Reference-PASS



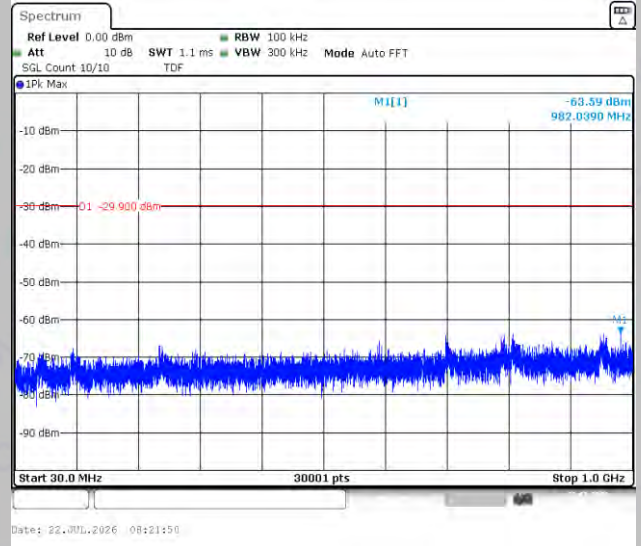
11B-Ant2-2462-30~1000-PASS



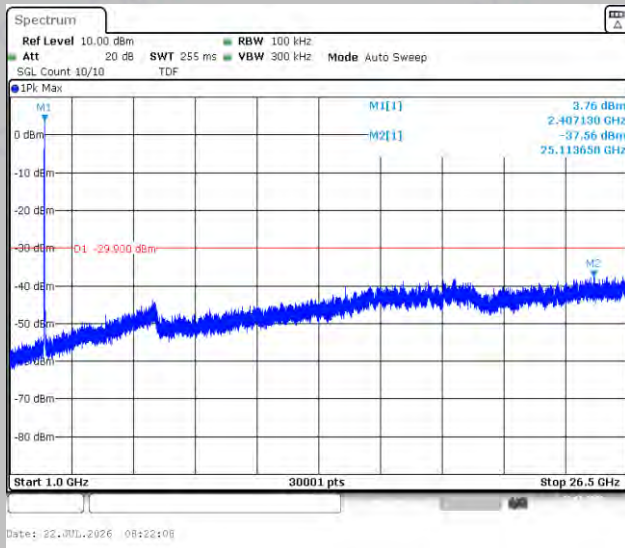
11B-Ant2-2462-1000~26500-PASS



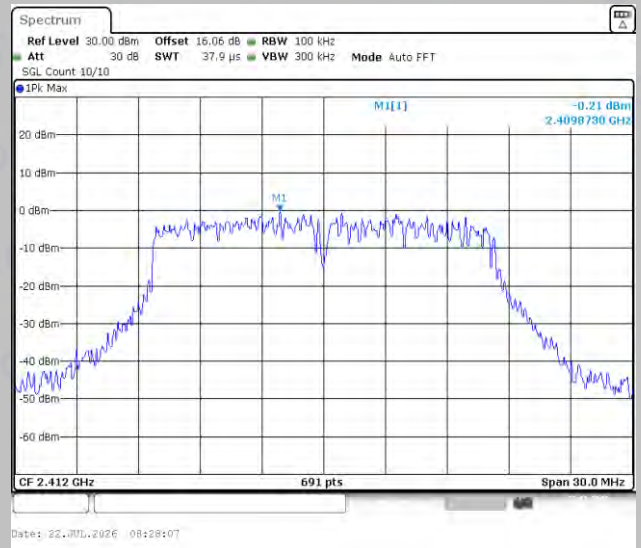
11G-Ant1-2412-0~Reference-PASS



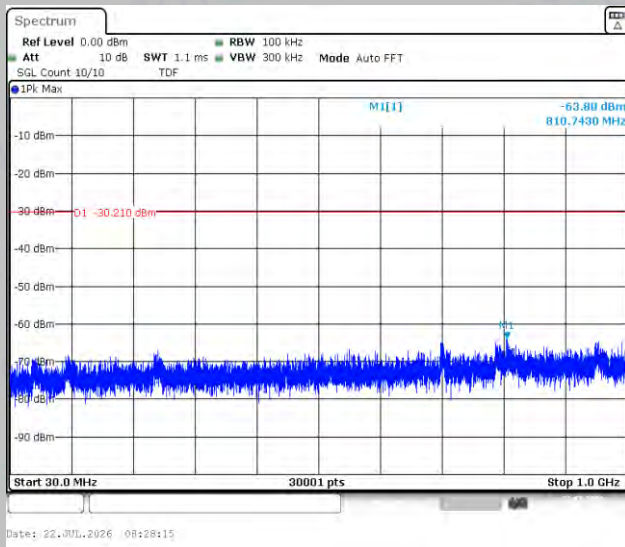
11G-Ant1-2412-30~1000-PASS



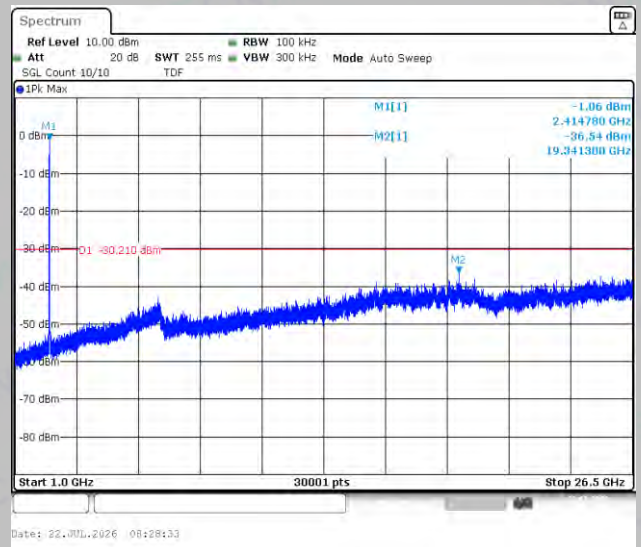
11G-Ant1-2412-1000~26500-PASS



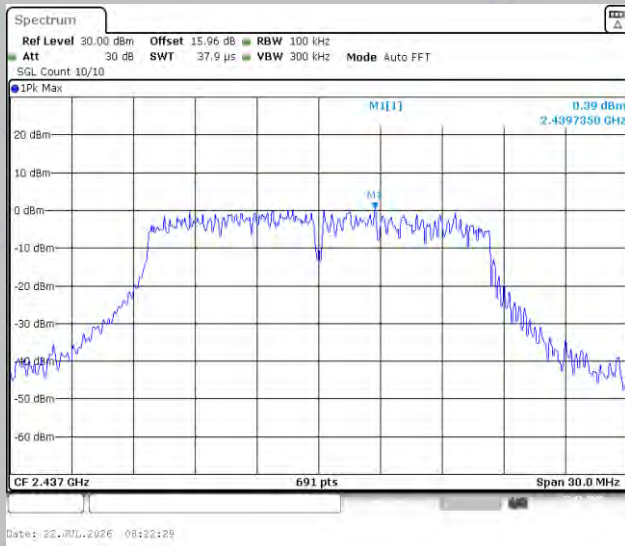
11G-Ant2-2412-0~Reference-PASS



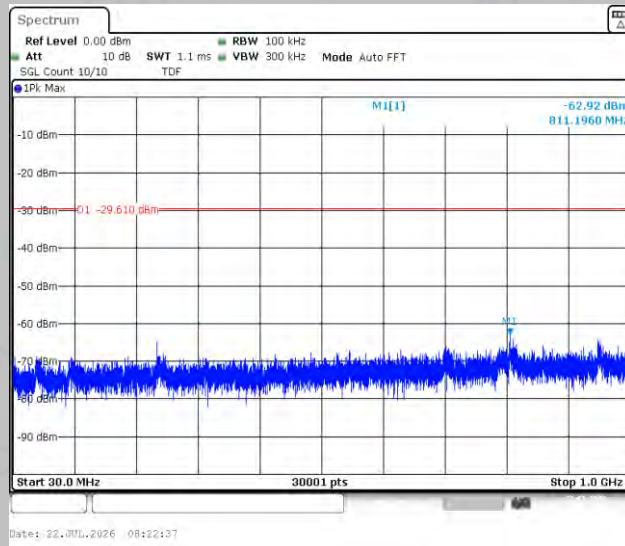
11G-Ant2-2412-30~1000-PASS



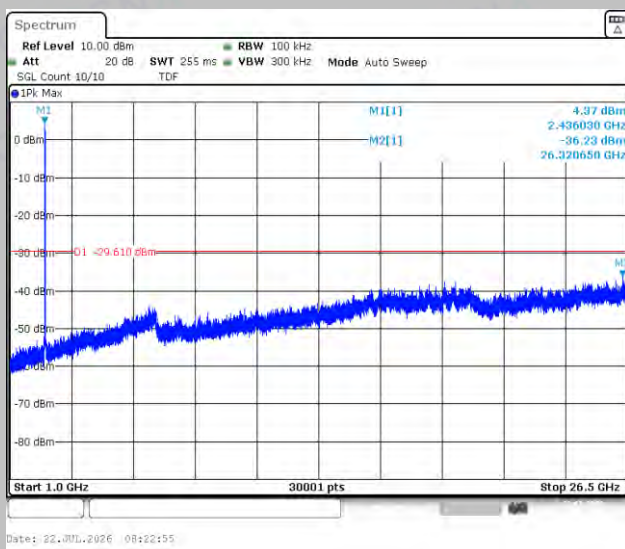
11G-Ant2-2412-1000~26500-PASS



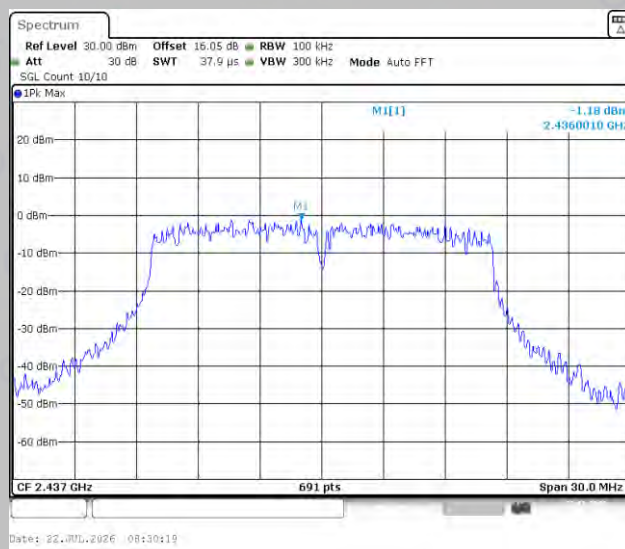
11G-Ant1-2437-0~Reference-PASS



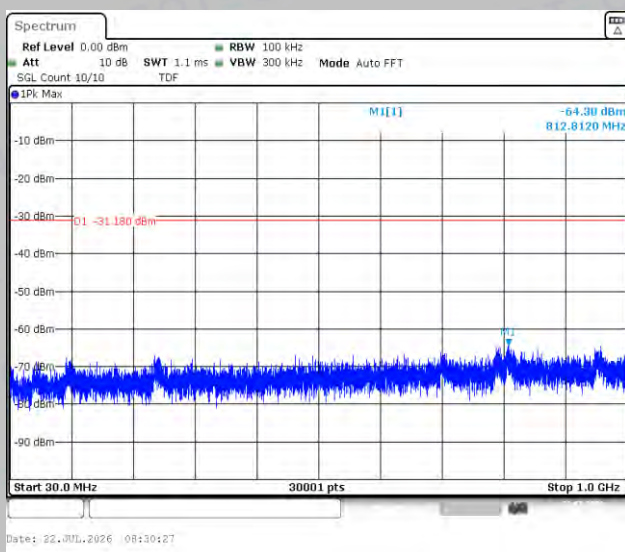
11G-Ant1-2437-30~1000-PASS



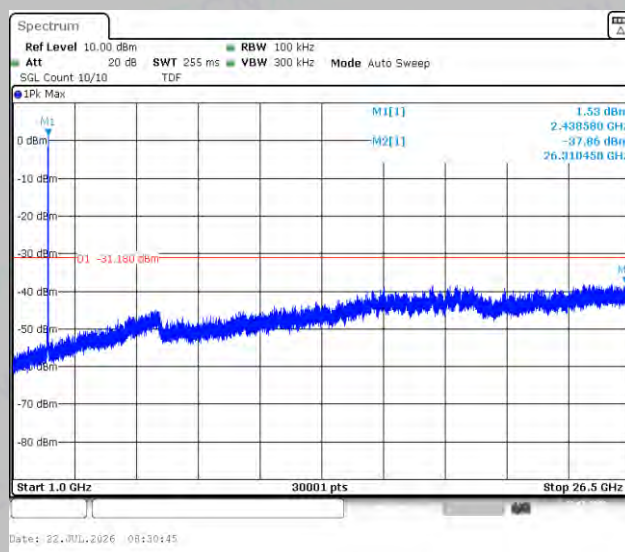
11G-Ant1-2437-1000~26500-PASS



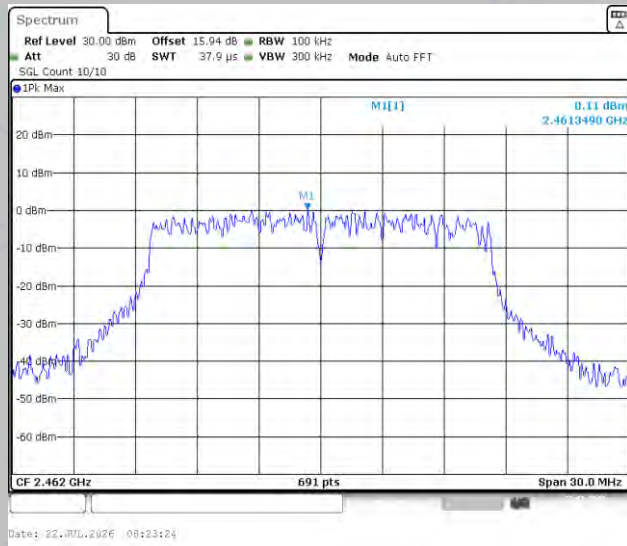
11G-Ant2-2437-0~Reference-PASS



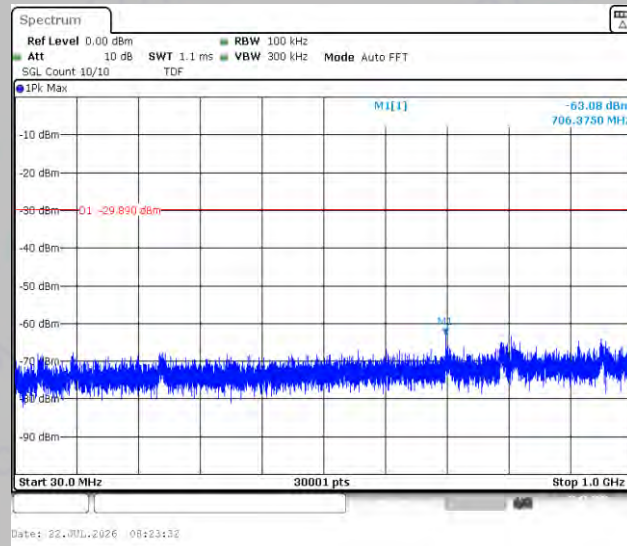
11G-Ant2-2437-0~Reference-PASS



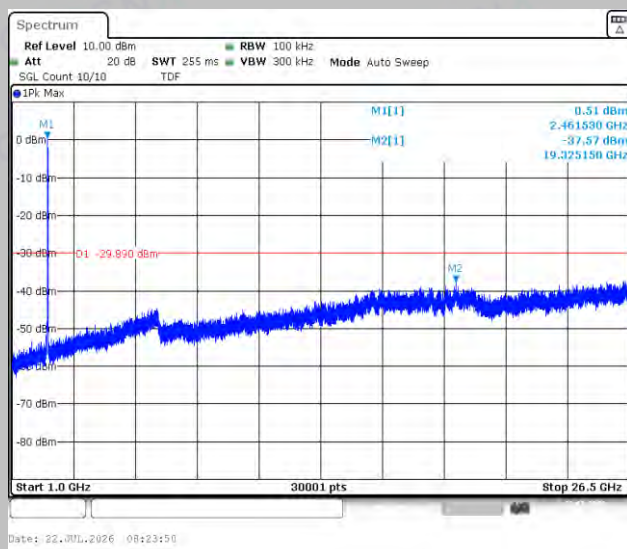
11G-Ant2-2437-30~1000-PASS



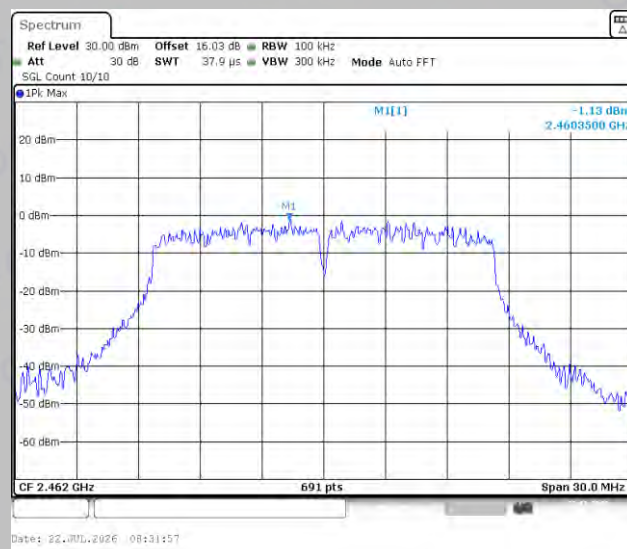
11G-Ant1-2462-0~Reference-PASS



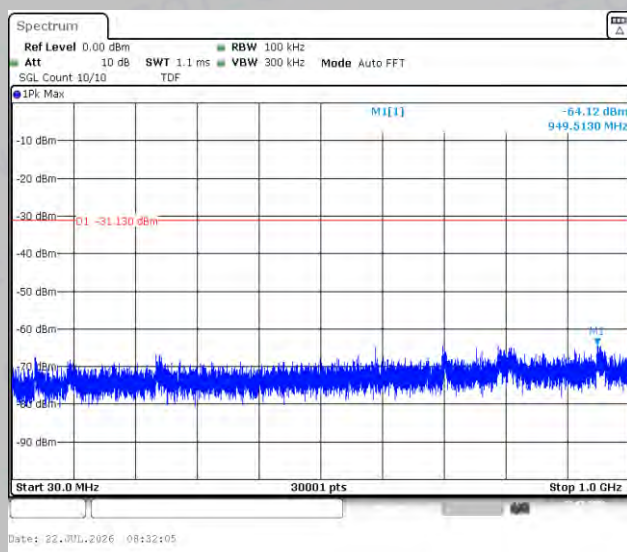
11G-Ant1-2462-30~1000-PASS



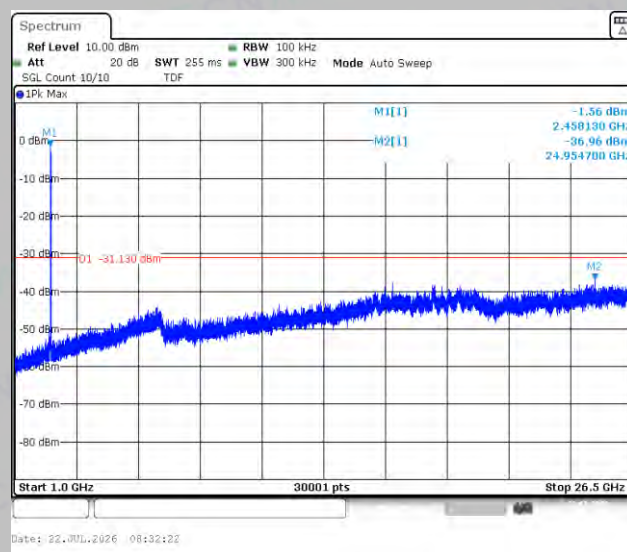
11G-Ant1-2462-1000~26500-PASS



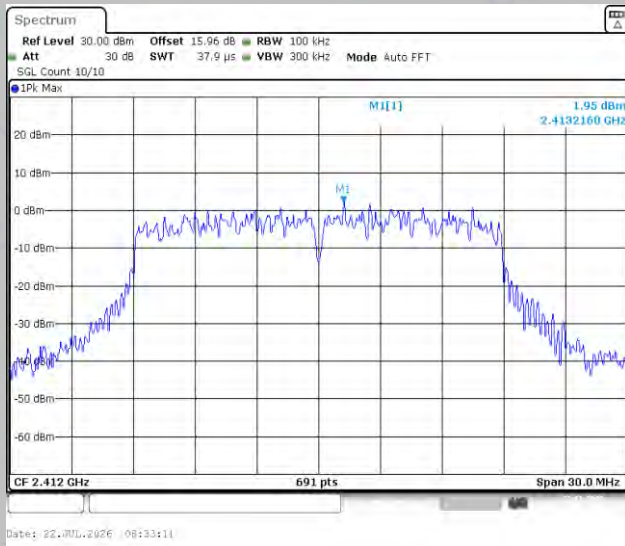
11G-Ant2-2462-0~Reference-PASS



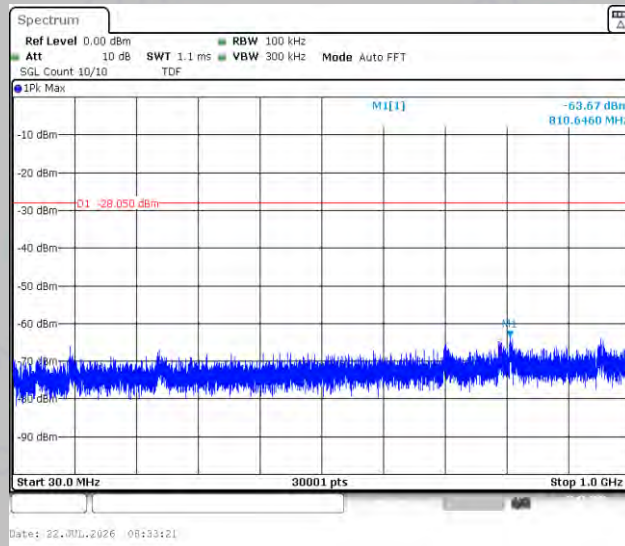
11G-Ant2-2462-30~1000-PASS



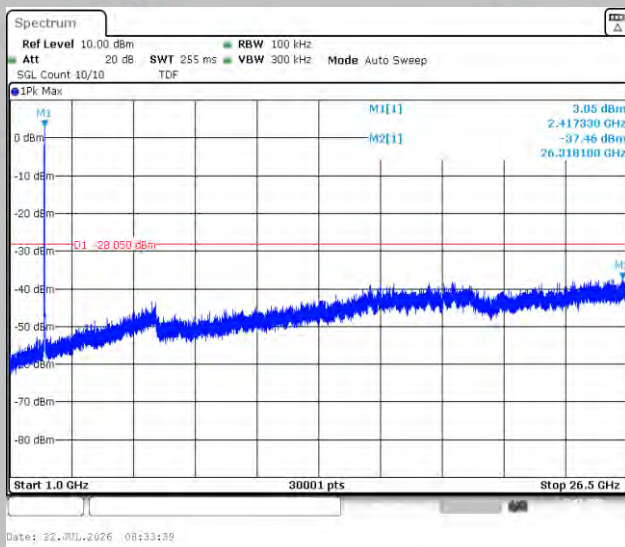
11G-Ant2-2462-1000~26500-PASS



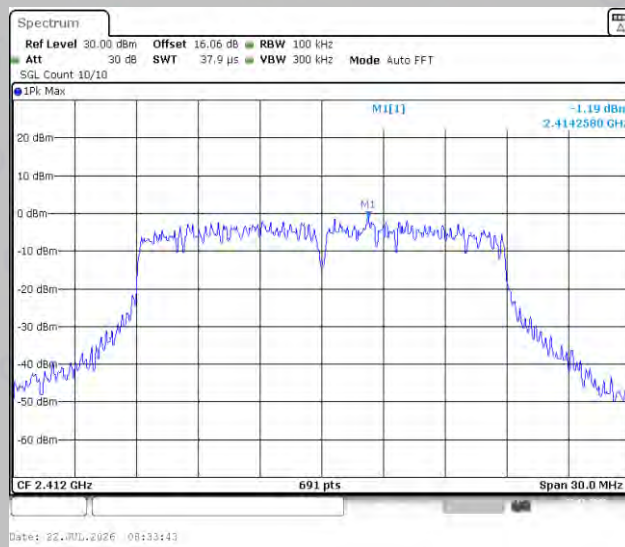
11N20MIMO-Ant1-2412-0~Reference-PASS



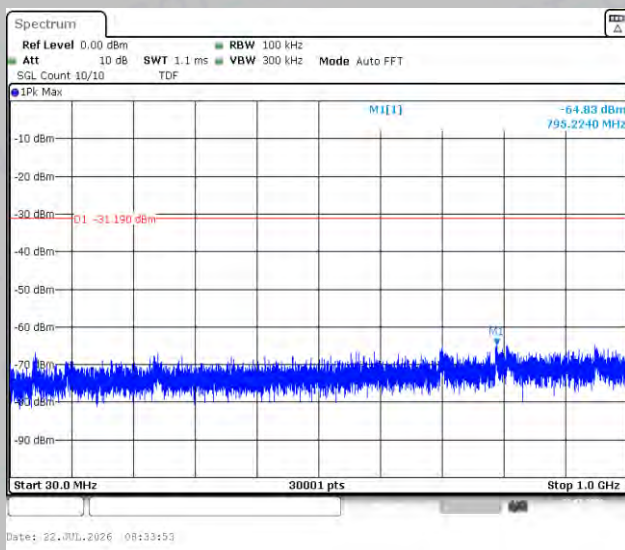
11N20MIMO-Ant1-2412-30~1000-PASS



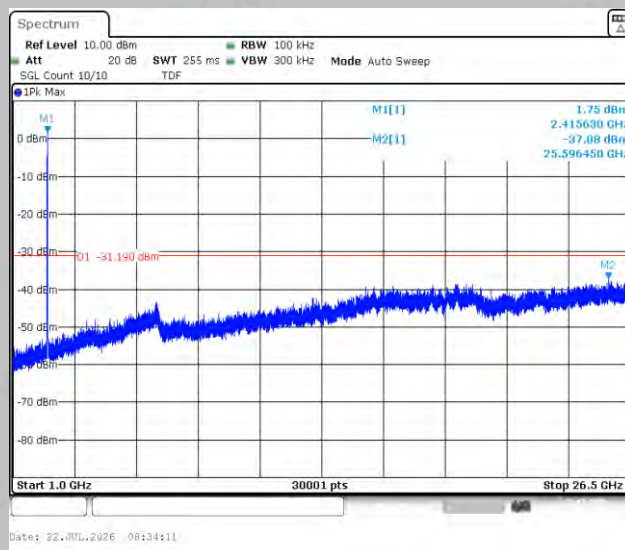
11N20MIMO-Ant1-2412-1000~26500-PASS



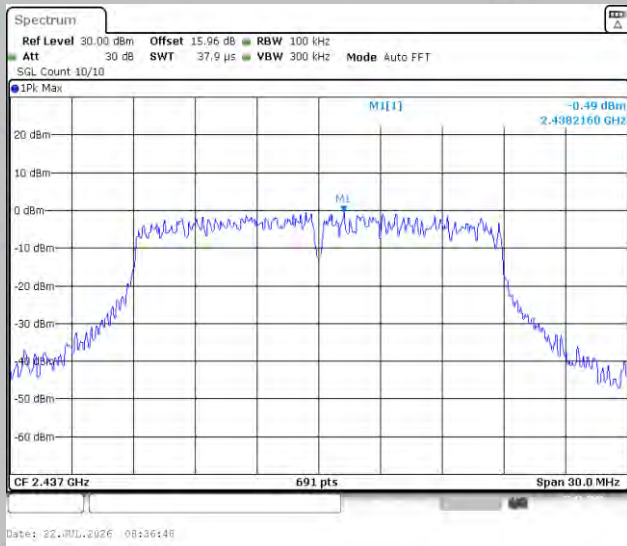
11N20MIMO-Ant2-2412-0~Reference-PASS



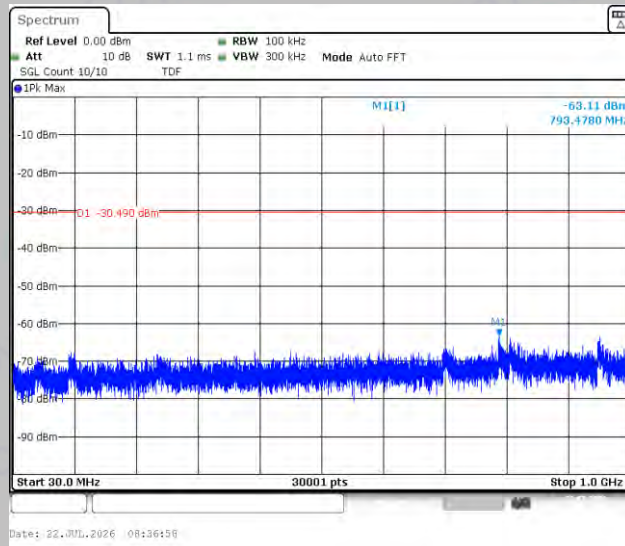
11N20MIMO-Ant2-2412-30~1000-PASS



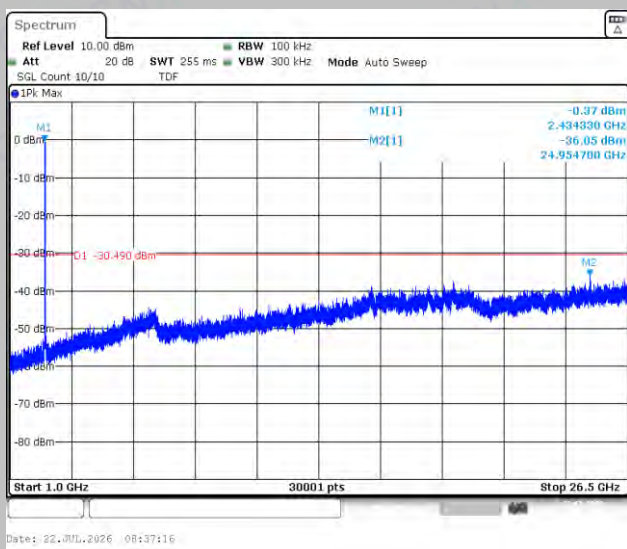
11N20MIMO-Ant2-2412-1000~26500-PASS



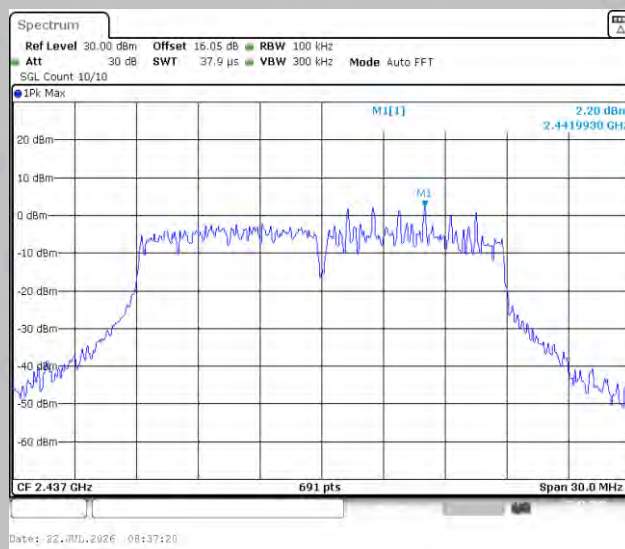
11N20MIMO-Ant1-2437-0~Reference-PASS



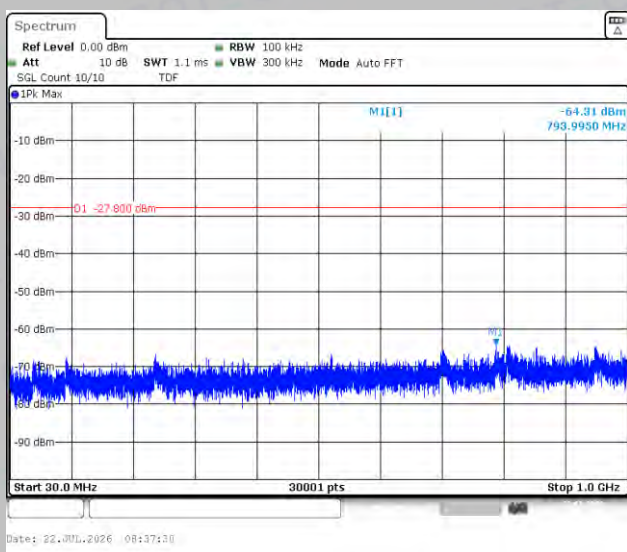
11N20MIMO-Ant1-2437-30~1000-PASS



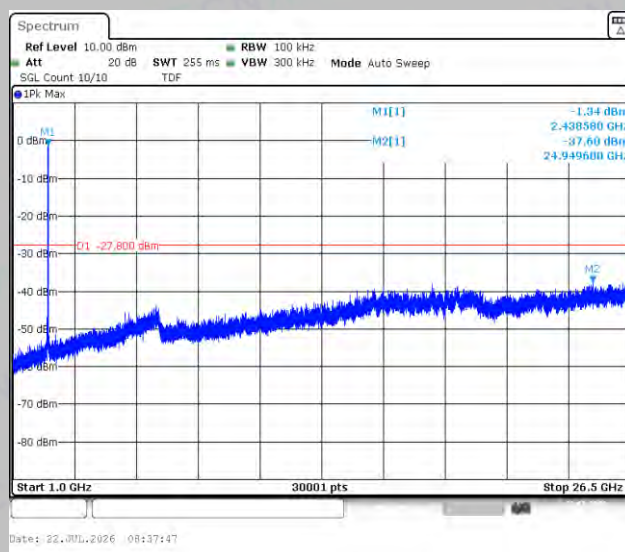
11N20MIMO-Ant1-2437-1000~26500-PASS



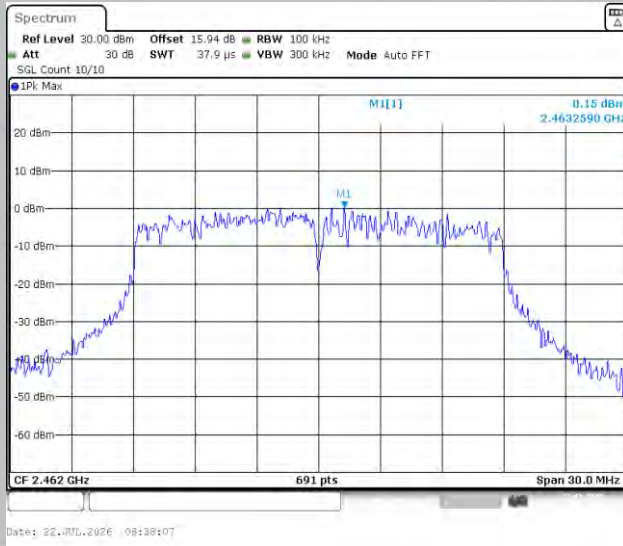
11N20MIMO-Ant2-2437-0~Reference-PASS



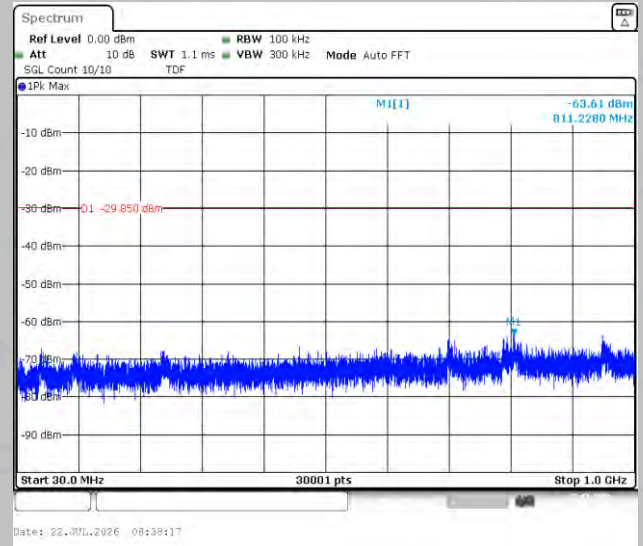
11N20MIMO-Ant2-2437-30~1000-PASS



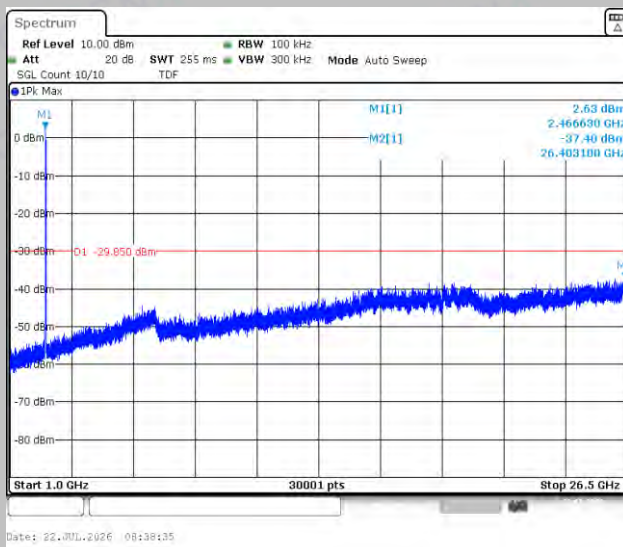
11N20MIMO-Ant2-2437-1000~26500-PASS



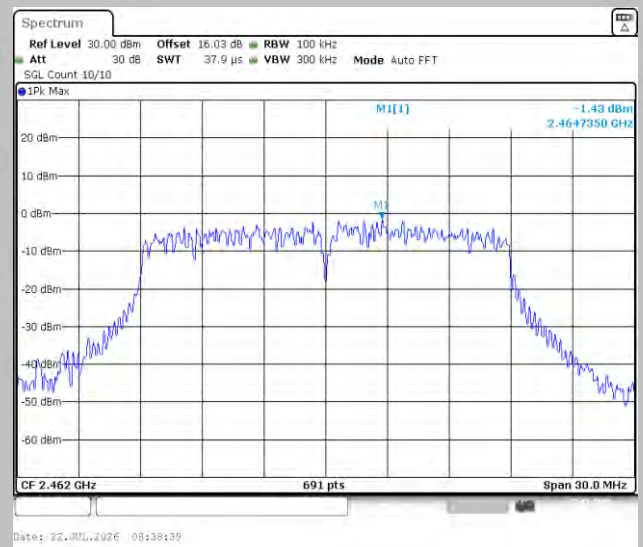
11N20MIMO-Ant1-2462-0~Reference-PASS



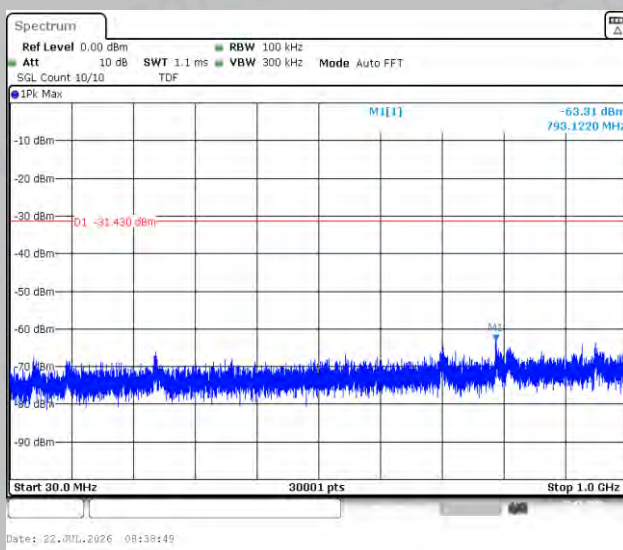
11N20MIMO-Ant1-2462-30~1000-PASS



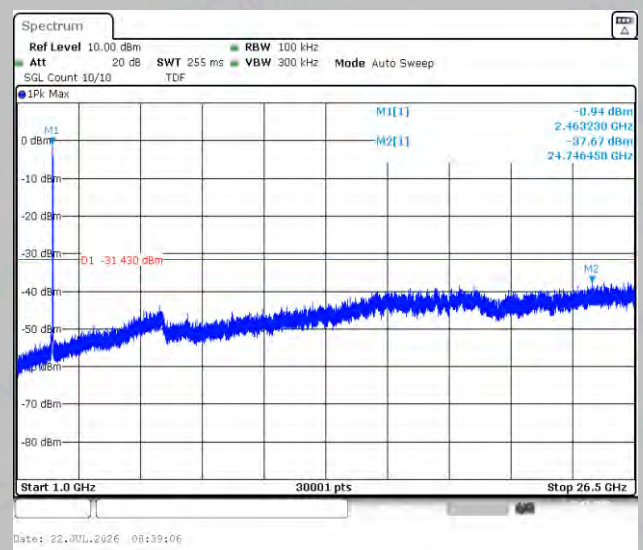
11N20MIMO-Ant1-2462-1000~26500-PASS



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



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



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

7: Duty Cycle

7.1 Test Result

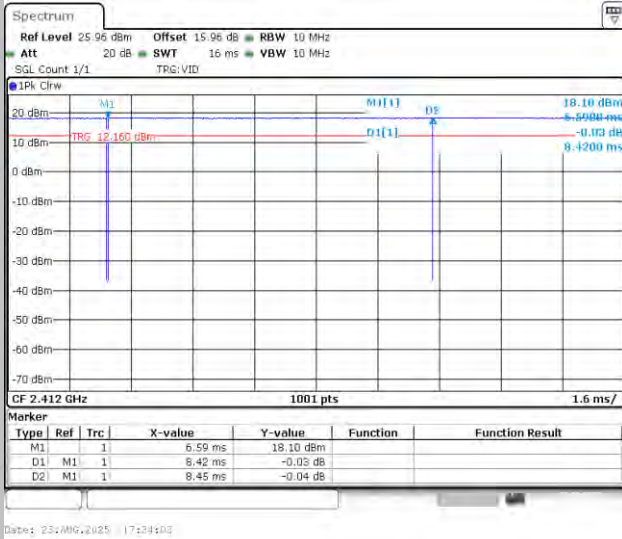
TestMode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	1/T [kHz]
11B	Ant1	2412	8.42	8.45	99.64	0.02	0.12
11B	Ant2	2412	8.44	8.47	99.65	0.02	0.12
11B	Ant1	2437	1.00	1.00	100.00	0.00	1.00
11B	Ant2	2437	8.42	8.46	99.53	0.02	0.12
11B	Ant1	2462	8.43	8.46	99.65	0.02	0.12
11B	Ant2	2462	8.41	8.46	99.41	0.03	0.12
11G	Ant1	2412	1.40	1.44	97.22	0.12	0.71
11G	Ant2	2412	1.39	1.43	97.20	0.12	0.72
11G	Ant1	2437	1.39	1.43	97.20	0.12	0.72
11G	Ant2	2437	1.39	1.43	97.20	0.12	0.72
11G	Ant1	2462	1.39	1.44	96.53	0.15	0.72
11G	Ant2	2462	1.39	1.43	97.20	0.12	0.72
11N20MIMO	Ant1	2412	1.31	1.35	97.04	0.13	0.76
11N20MIMO	Ant2	2412	1.31	1.35	97.04	0.13	0.76
11N20MIMO	Ant1	2437	1.31	1.35	97.04	0.13	0.76
11N20MIMO	Ant2	2437	1.31	1.35	97.04	0.13	0.76
11N20MIMO	Ant1	2462	1.31	1.35	97.04	0.13	0.76
11N20MIMO	Ant2	2462	1.30	1.35	96.30	0.16	0.77

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

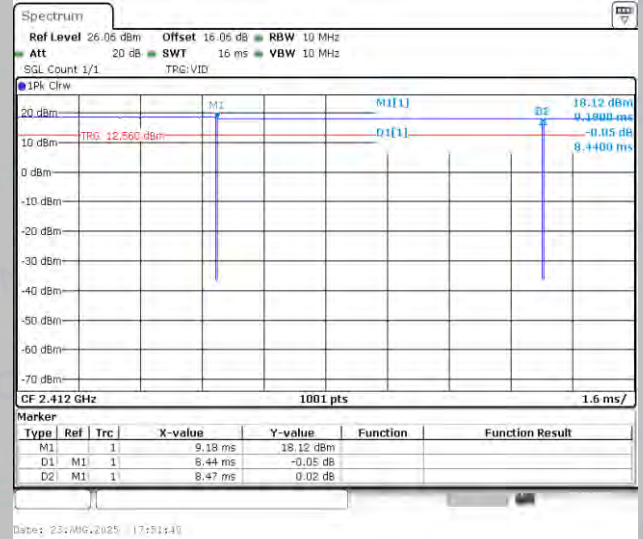
2, DC Factor= $10 \cdot \log_{10}(1/\text{Duty Cycle})$

3, $1/T=1/\text{Transmission Duration}$

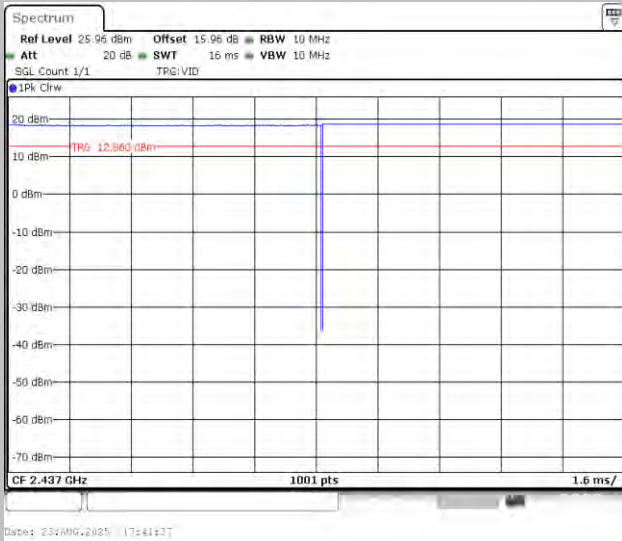
7.2 Test Graphs



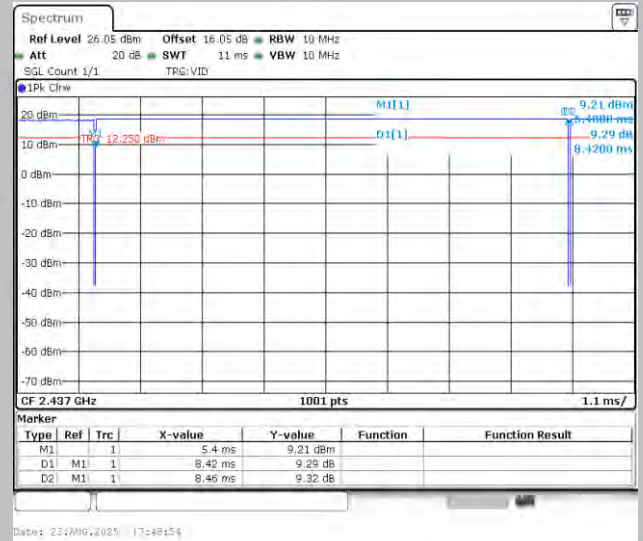
NTNV-11B-Ant1-2412



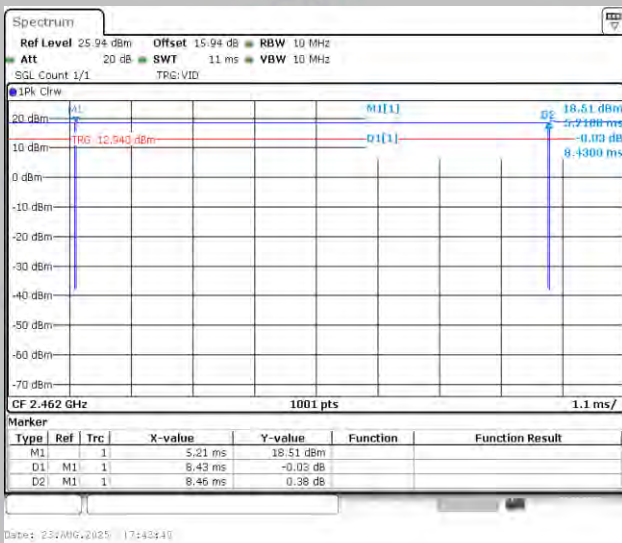
NTNV-11B-Ant2-2412



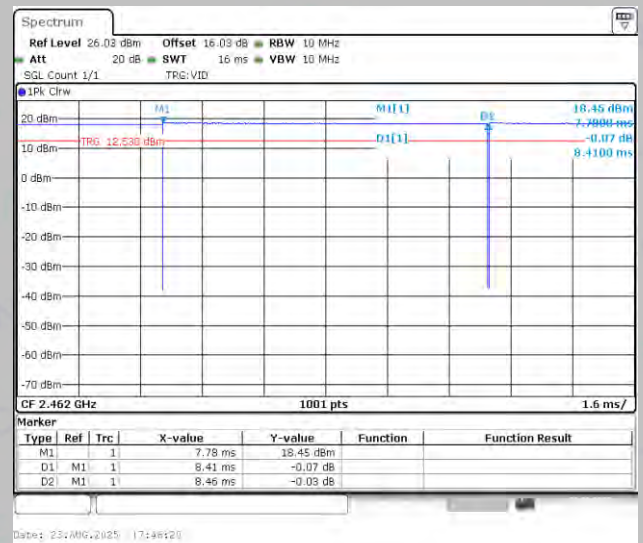
NTNV-11B-Ant1-2437



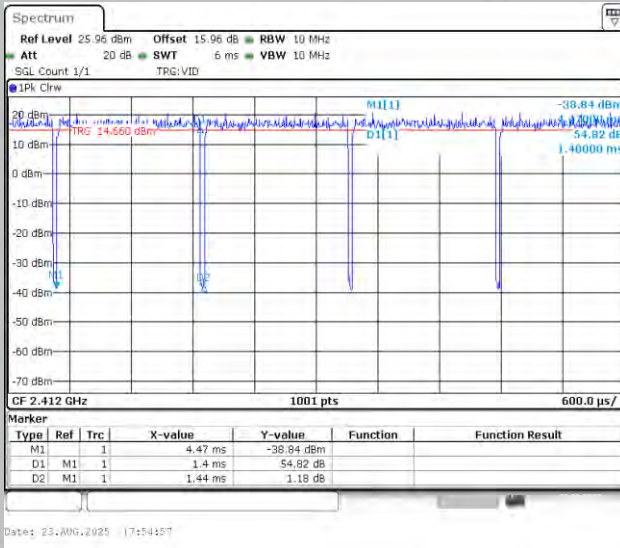
NTNV-11B-Ant2-2437



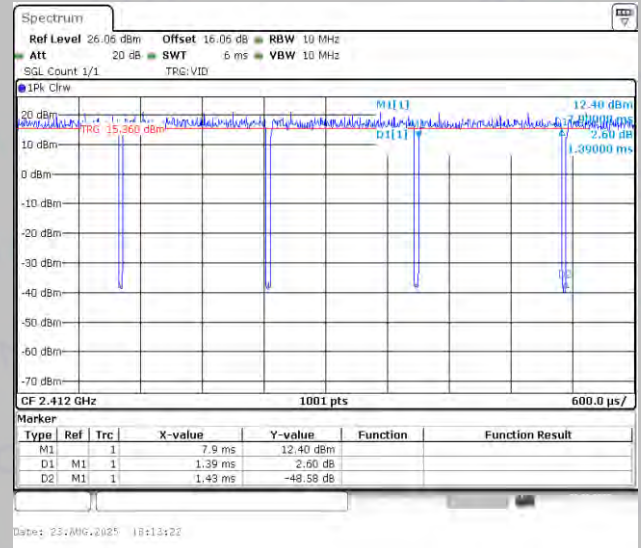
NTNV-11B-Ant1-2462



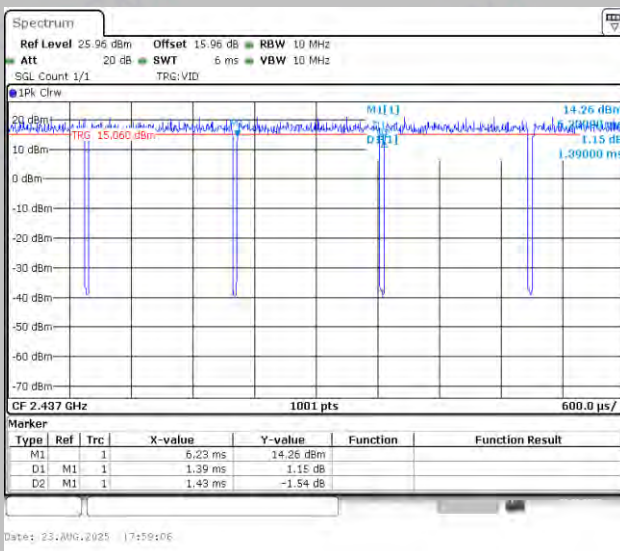
NTNV-11B-Ant2-2462



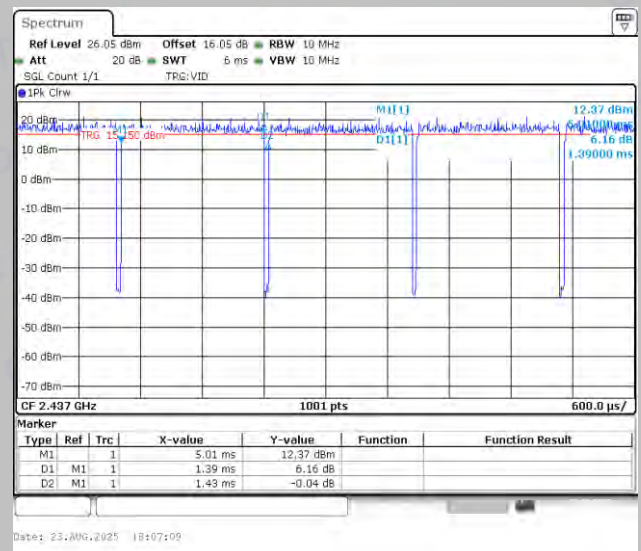
NTNV-11G-Ant1-2412



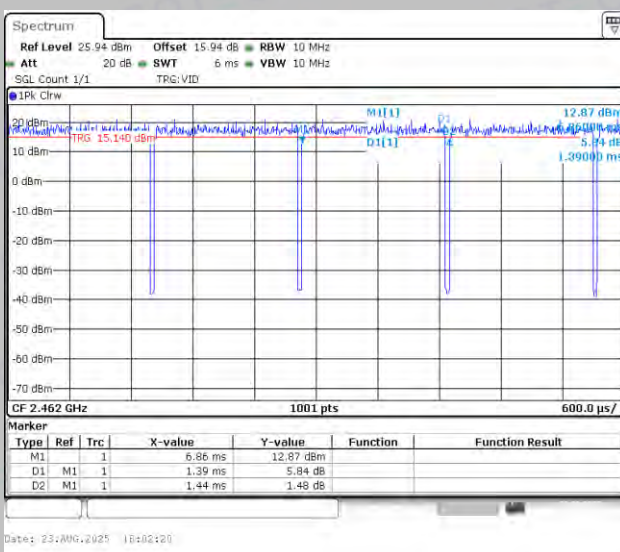
NTNV-11G-Ant2-2412



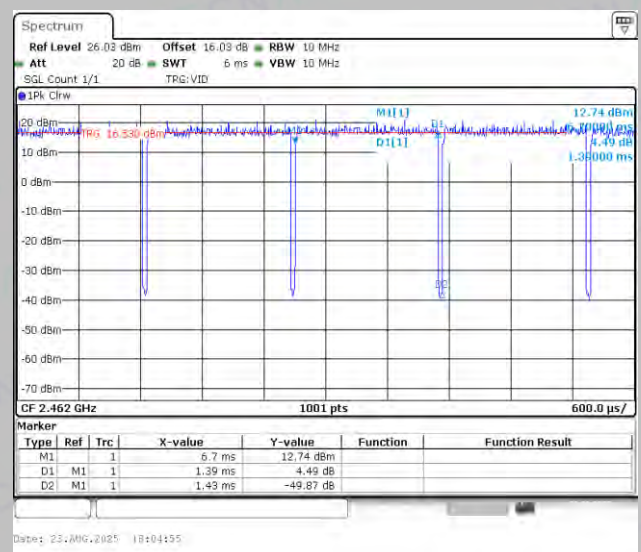
NTNV-11G-Ant1-2437



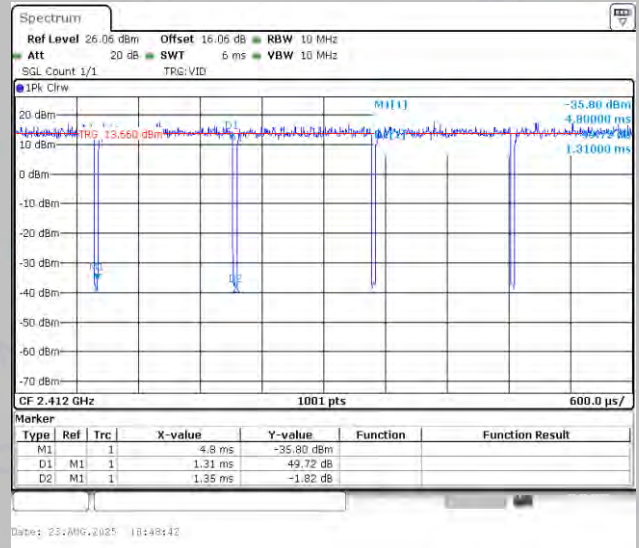
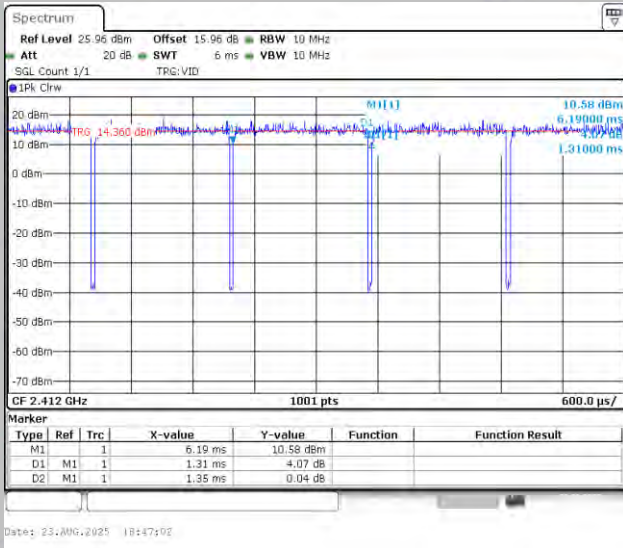
NTNV-11G-Ant2-2437



NTNV-11G-Ant1-2462

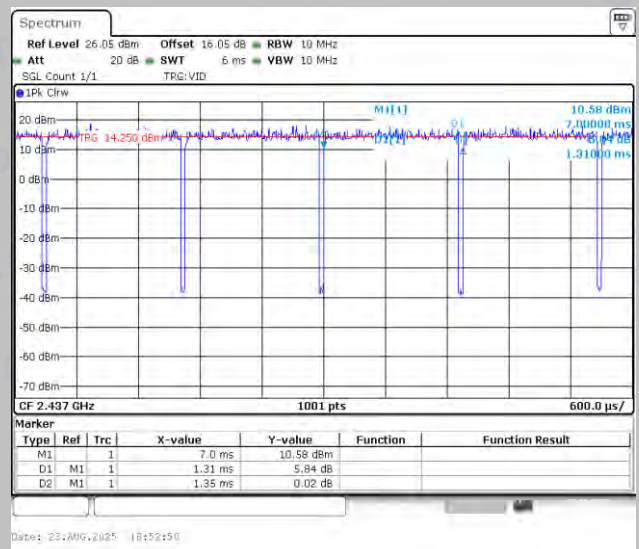
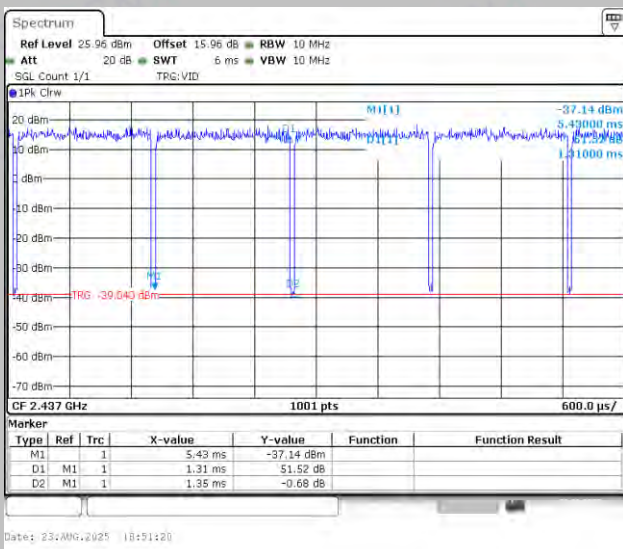


NTNV-11G-Ant2-2462



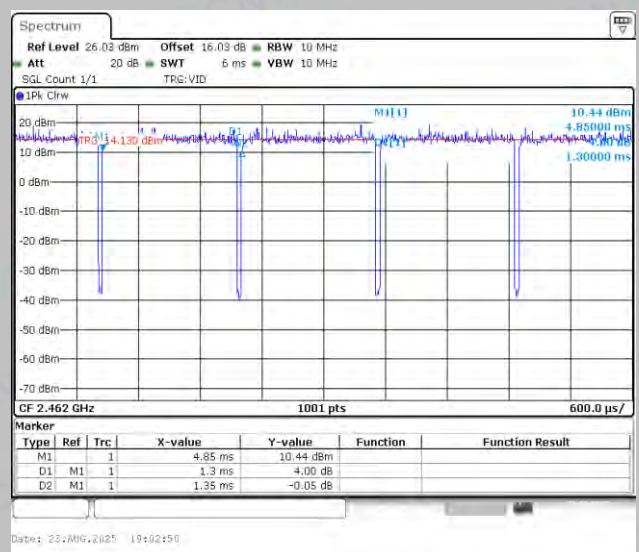
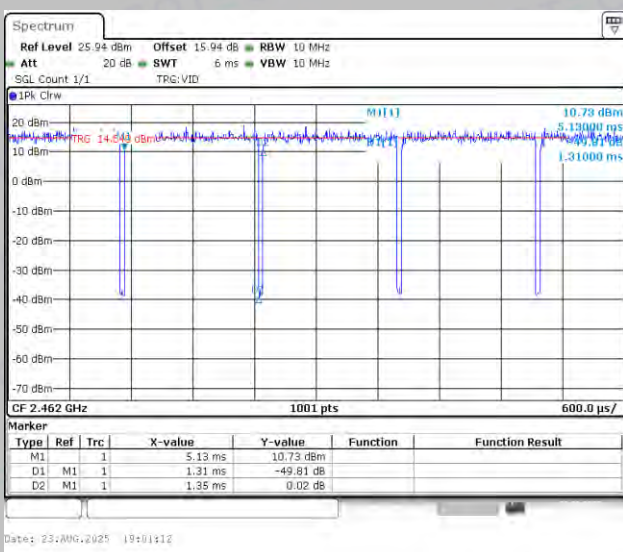
NTNV-11N20MIMO-Ant1-2412

NTNV-11N20MIMO-Ant2-2412



NTNV-11N20MIMO-Ant1-2437

NTNV-11N20MIMO-Ant2-2437



NTNV-11N20MIMO-Ant1-2462

NTNV-11N20MIMO-Ant2-2462

--- END OF REPORT ---