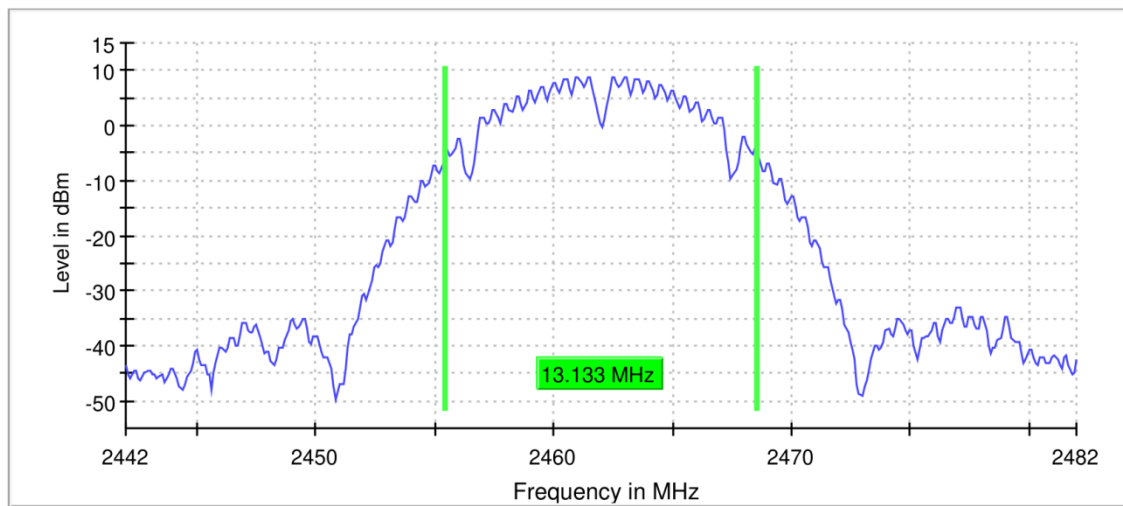


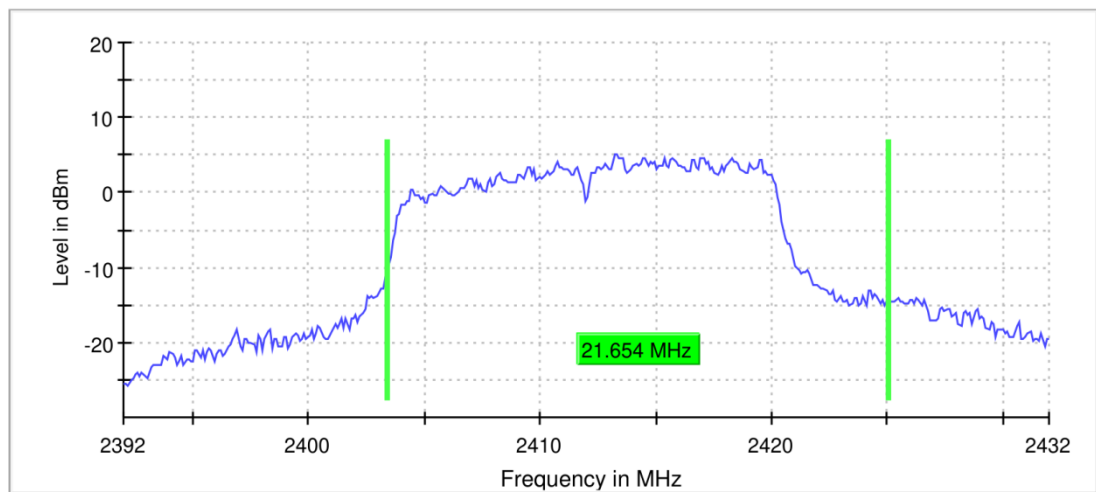


99 % Bandwidth



11G_ANT1_2412

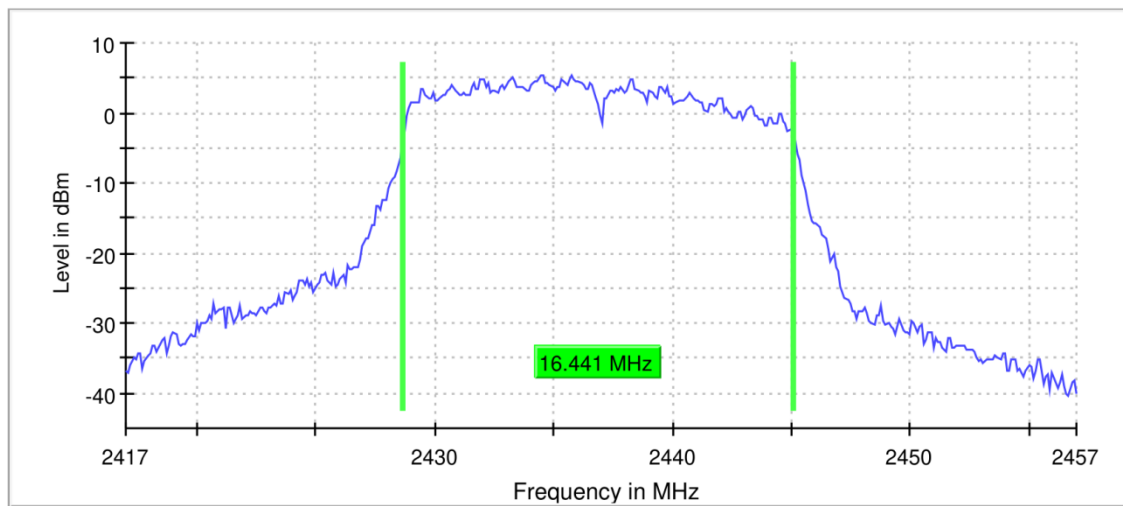
99 % Bandwidth



11G_ANT1_2437

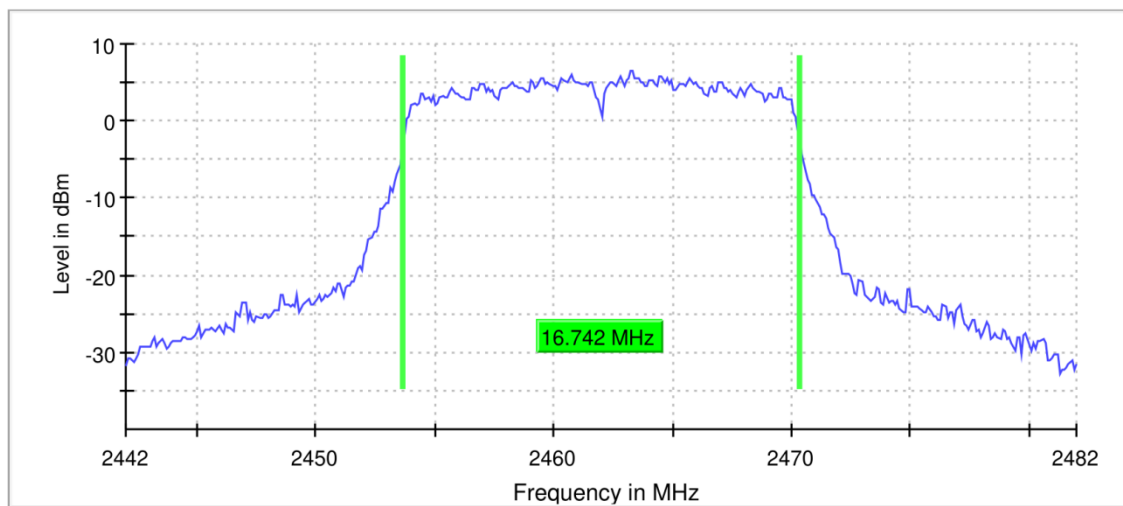


99 % Bandwidth



11G_ANT1_2462

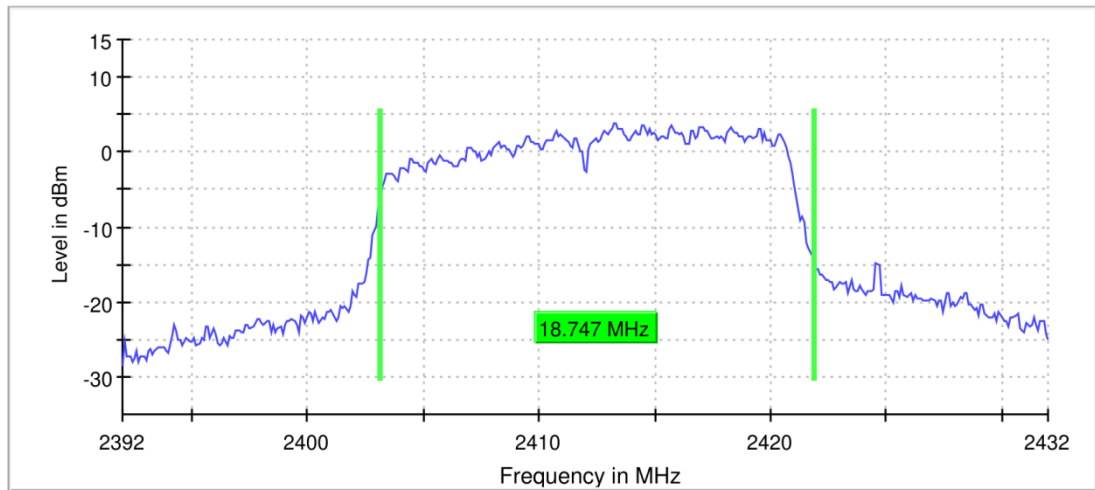
99 % Bandwidth



11N20_ANT1_2412

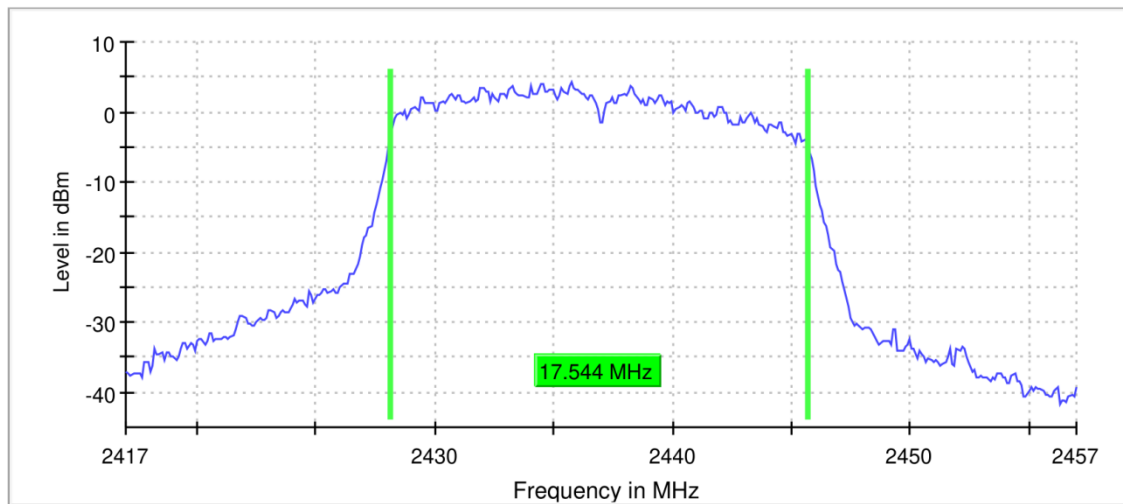


99 % Bandwidth



11N20_ANT1_2437

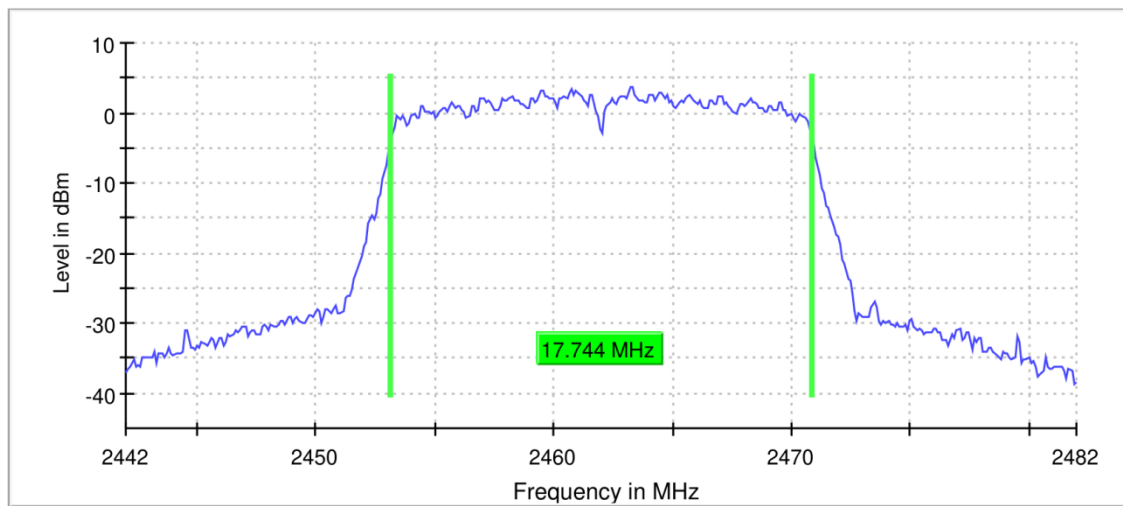
99 % Bandwidth



11N20_ANT1_2462

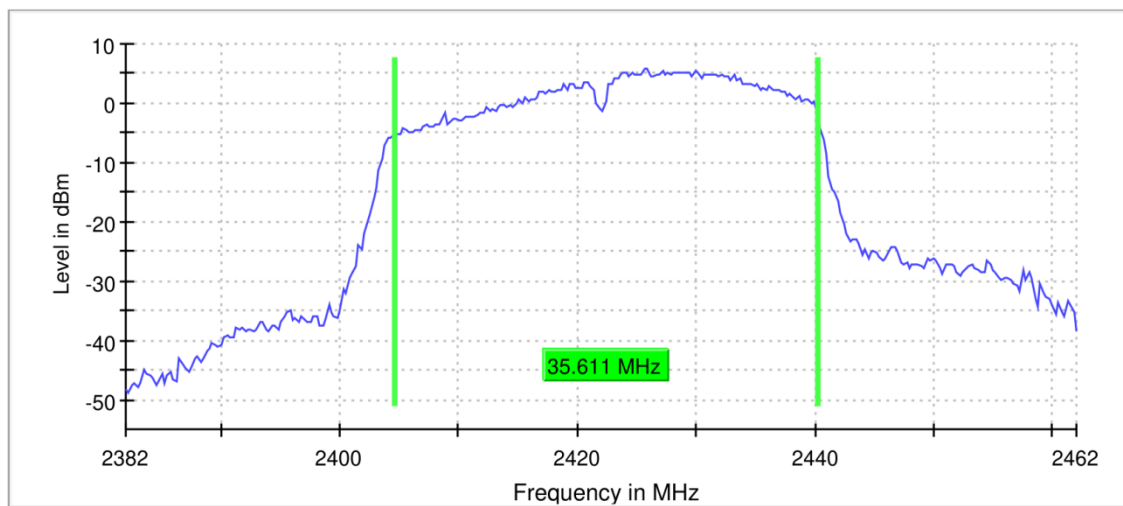


99 % Bandwidth



11N40_ANT1_2422

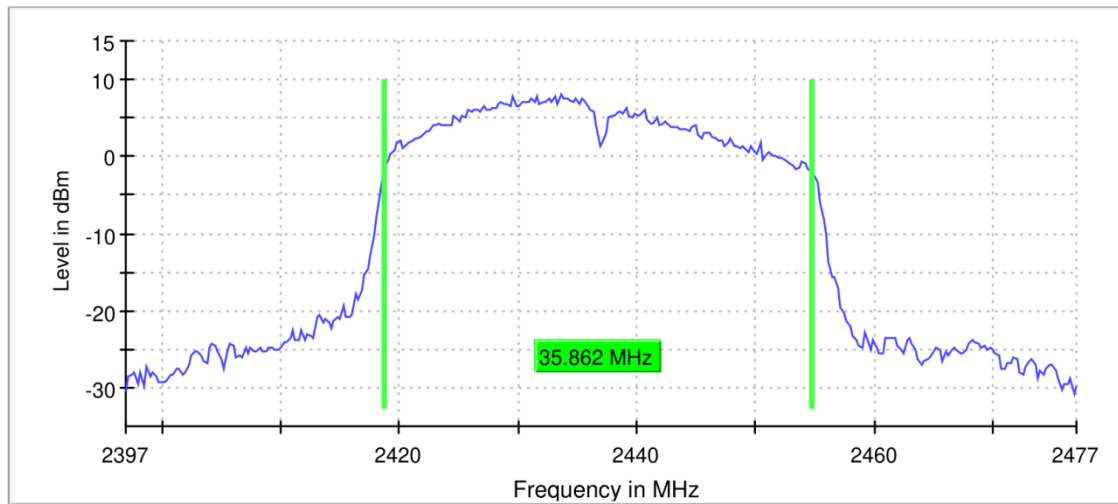
99 % Bandwidth



11N40_ANT1_2437

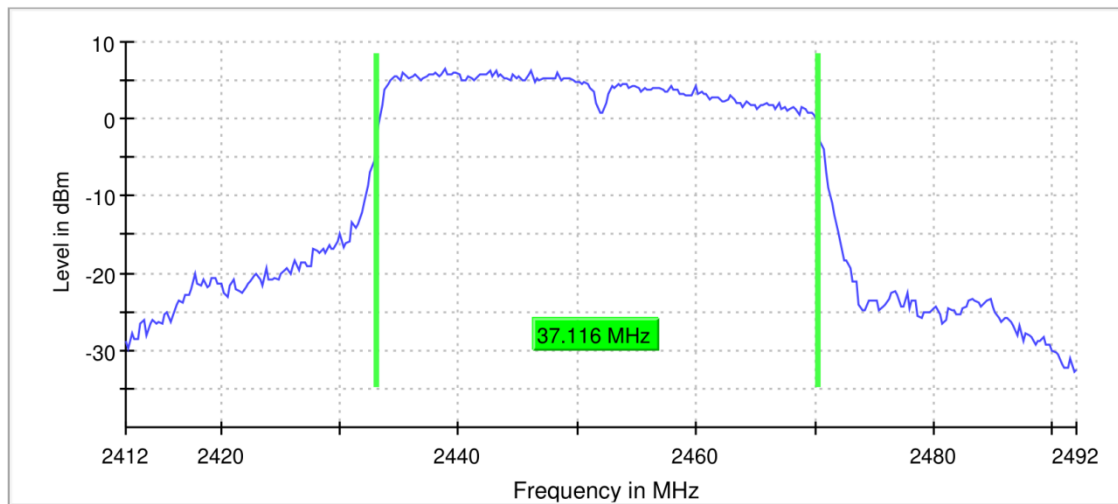


99 % Bandwidth



11N40_ANT1_2452

99 % Bandwidth



20M

RBW 200.000 kHz

VBW 1.000 MHz

40M

RBW 500.000 kHz

VBW 2.000 MHz

**MAXIMUM CONDUCTED OUTPUT POWER****TEST RESULT**

TestMode	TX Mod.	Frequency [MHz]	Peak power [dBm]	MAX Peak power	Limit [dBm]	Verdict	Power Setting
			Ant1	[mw]			
11B	SISO	2412	18.33	68.08	≤30.00	PASS	18.5
		2437	17.85	60.95	≤30.00	PASS	18.5
		2462	18.24	66.68	≤30.00	PASS	18.5
11g	SISO	2412	23.77	238.23	≤30.00	PASS	16
		2437	22.08	161.44	≤30.00	PASS	16
		2462	23.29	213.30	≤30.00	PASS	16
11N20	SISO	2412	23.83	241.55	≤30.00	PASS	15
		2437	23.02	200.45	≤30.00	PASS	15
		2462	23.83	241.55	≤30.00	PASS	15
11N40	SISO	2422	23.21	209.41	≤30.00	PASS	15
		2437	23.17	207.49	≤30.00	PASS	15
		2452	23.27	212.32	≤30.00	PASS	15



TestMode	TX Mod.	Freq. [MHz]	Avg.power [dBm]	Power Setting
			Ant1	
11B	SISO	2412	16.01	18.5
		2437	15.54	18.5
		2462	15.85	18.5
11g	SISO	2412	13.42	16
		2437	13.08	16
		2462	13.37	16
11N20	SISO	2412	12.51	15
		2437	12.56	15
		2462	12.79	15
11N40	SISO	2422	12.57	15
		2437	12.63	15
		2452	12.52	15

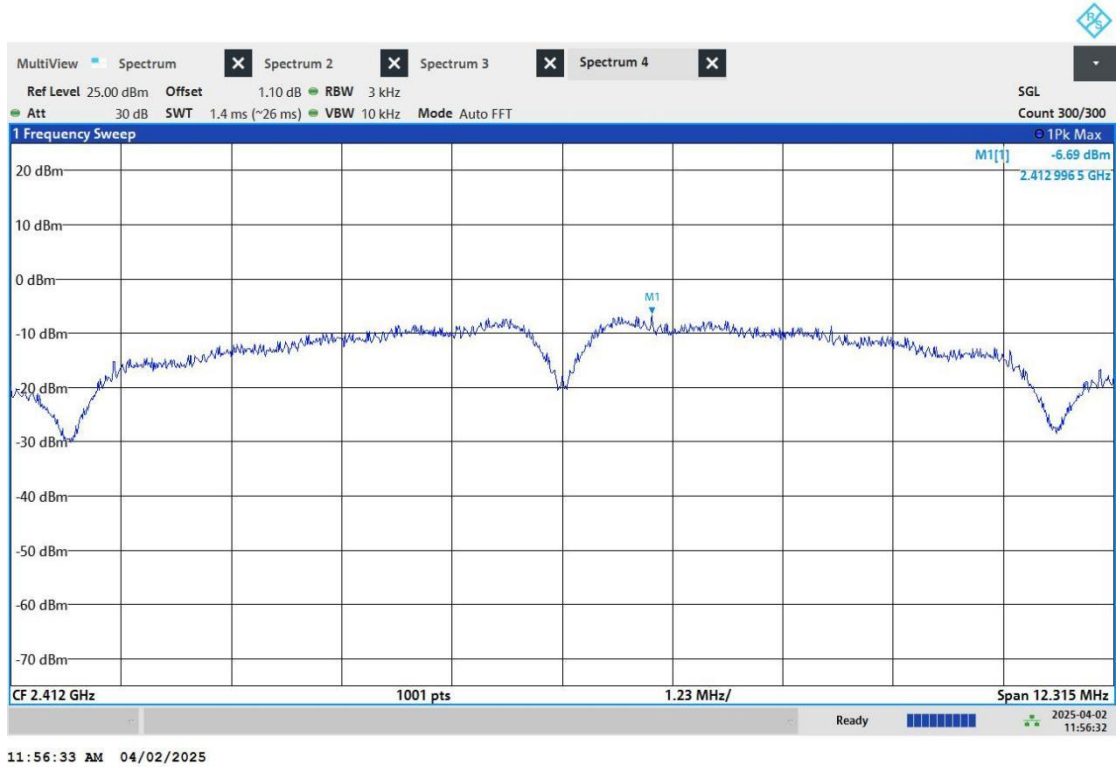
**MAXIMUM POWER SPECTRAL DENSITY****TEST RESULT**

TestMode	Antenna	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	ANT1	2412	-6.69	≤8.00	PASS
	ANT1	2437	-5.23	≤8.00	PASS
	ANT1	2462	-6.61	≤8.00	PASS
11G	ANT1	2412	-11.27	≤8.00	PASS
	ANT1	2437	-11.05	≤8.00	PASS
	ANT1	2462	-10.70	≤8.00	PASS
11N20	ANT1	2412	-12.51	≤8.00	PASS
	ANT1	2437	-11.92	≤8.00	PASS
	ANT1	2462	-12.22	≤8.00	PASS
11N40	ANT1	2422	-12.82	≤8.00	PASS
	ANT1	2437	-12.65	≤8.00	PASS
	ANT1	2452	-14.43	≤8.00	PASS

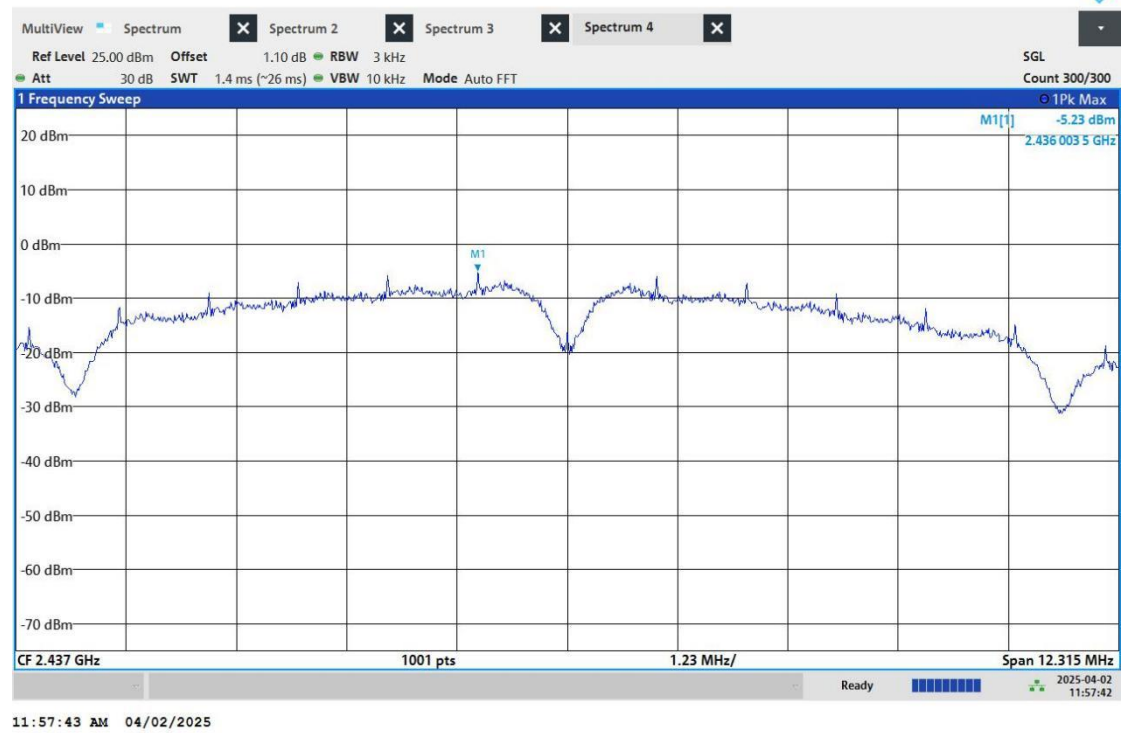


TEST GRAPHS

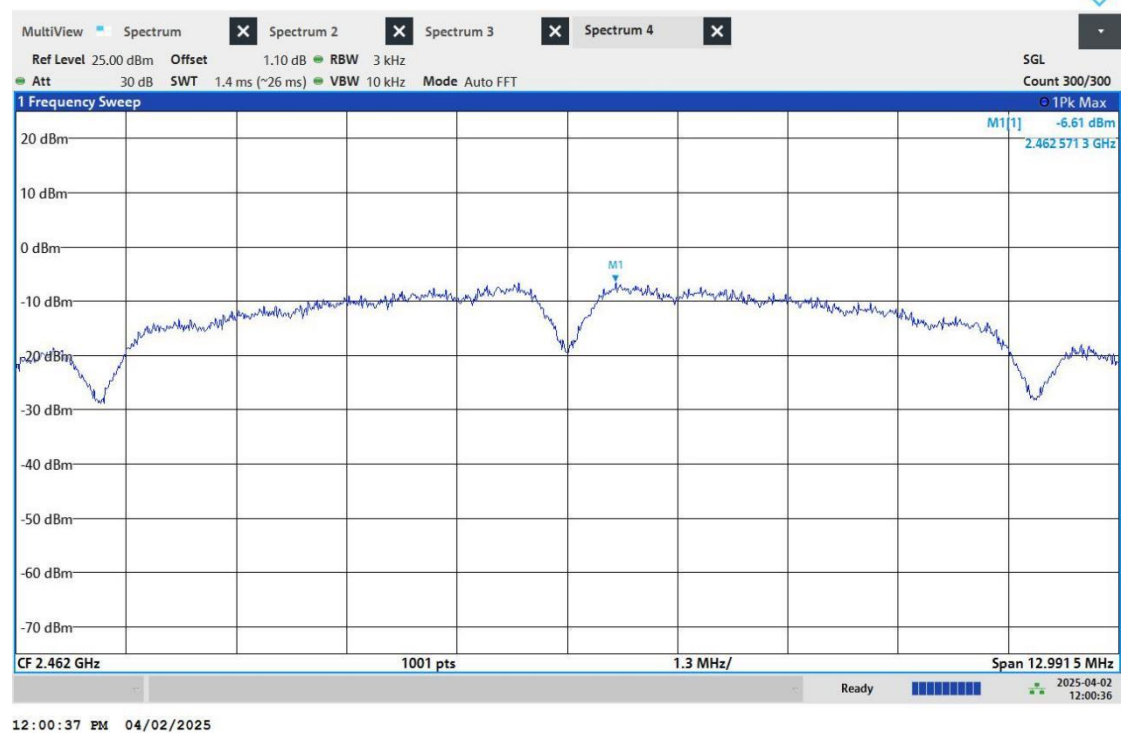
11B_ANT1_2412



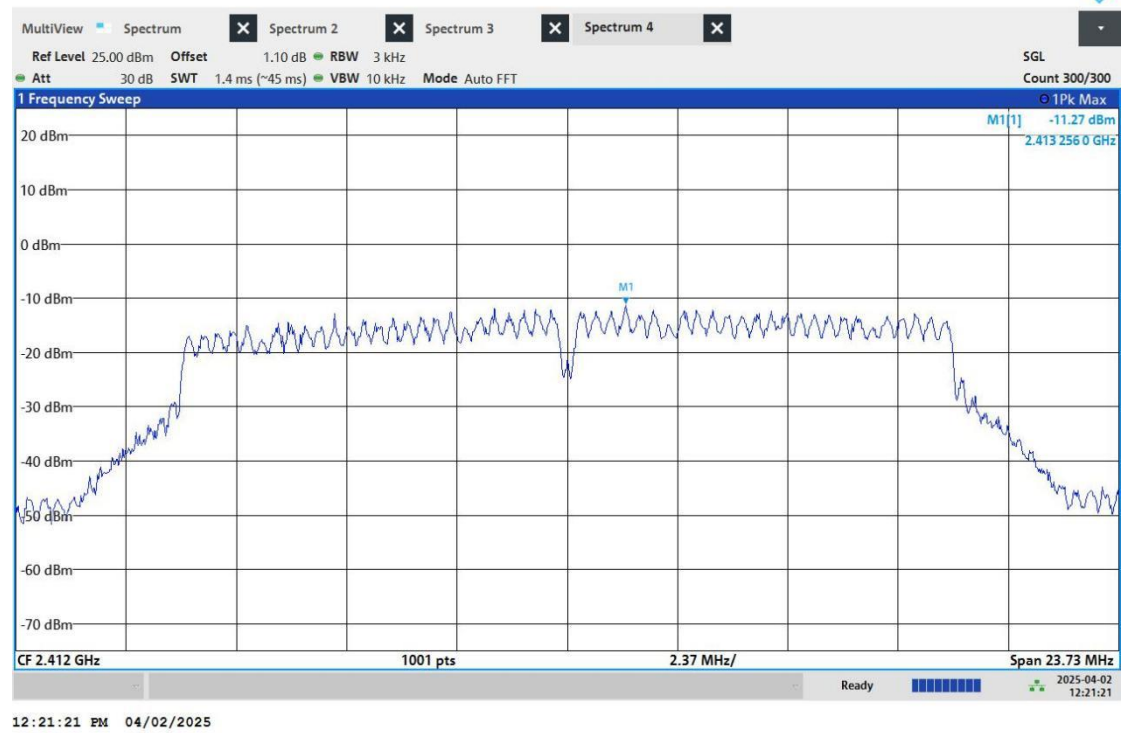
11B_ANT1_2437



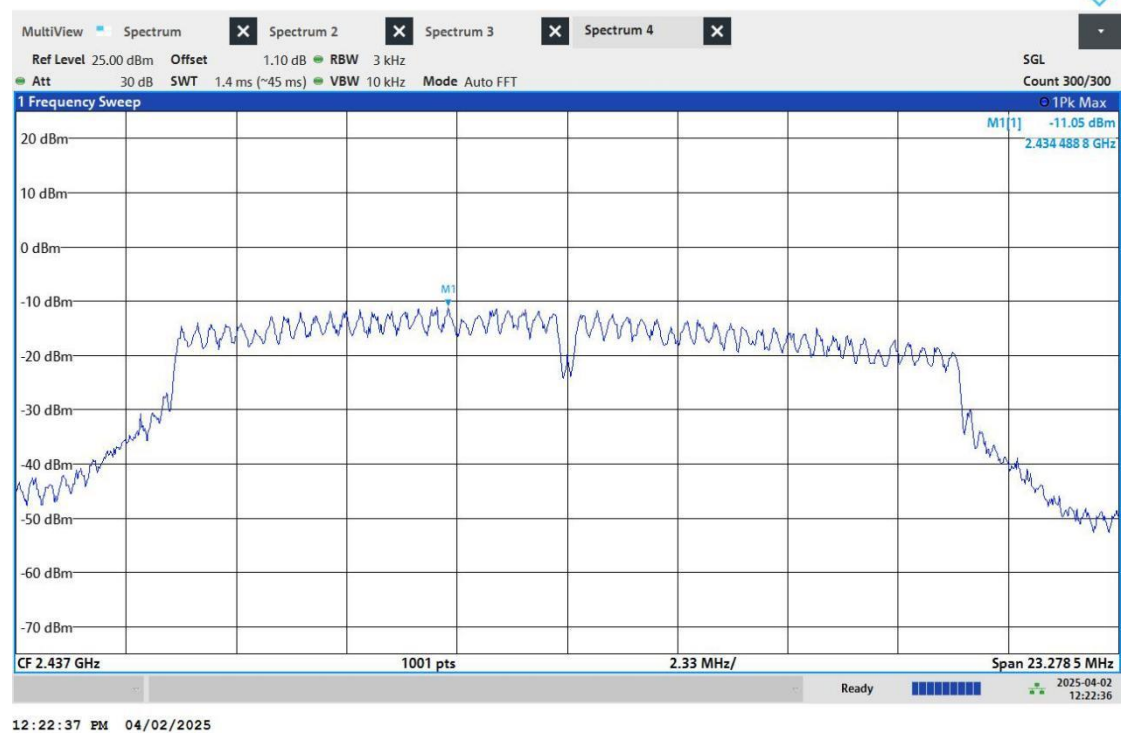
11B_ANT1_2462



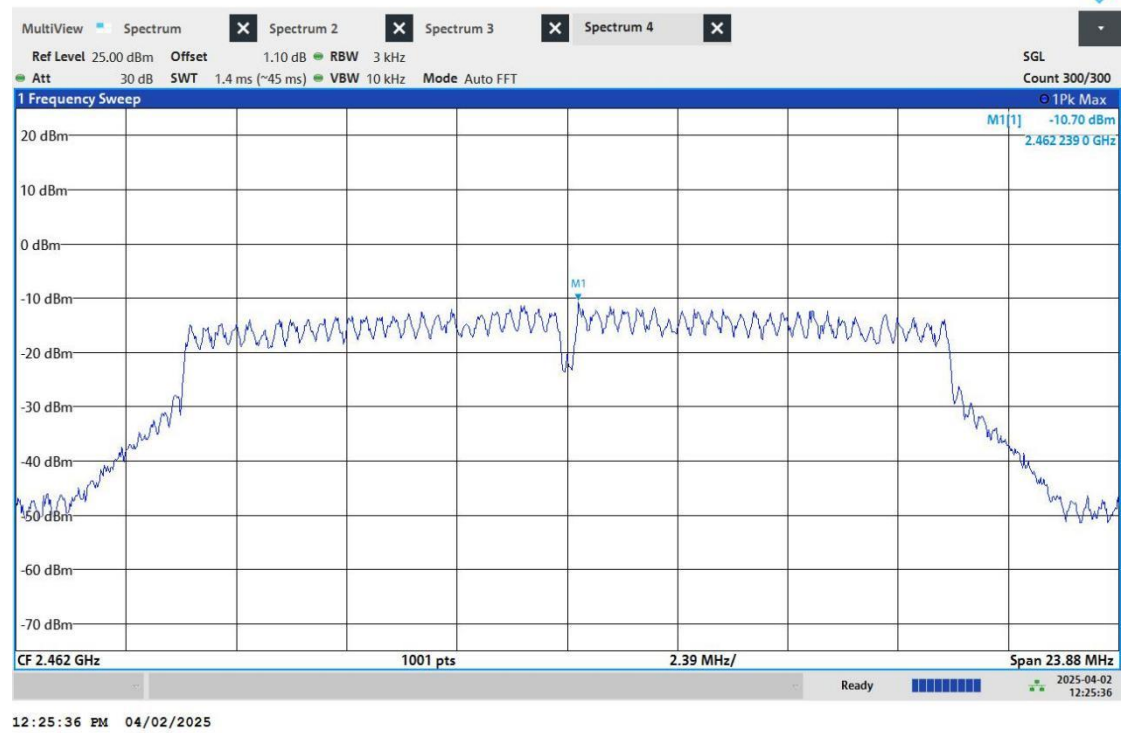
11G_ANT1_2412



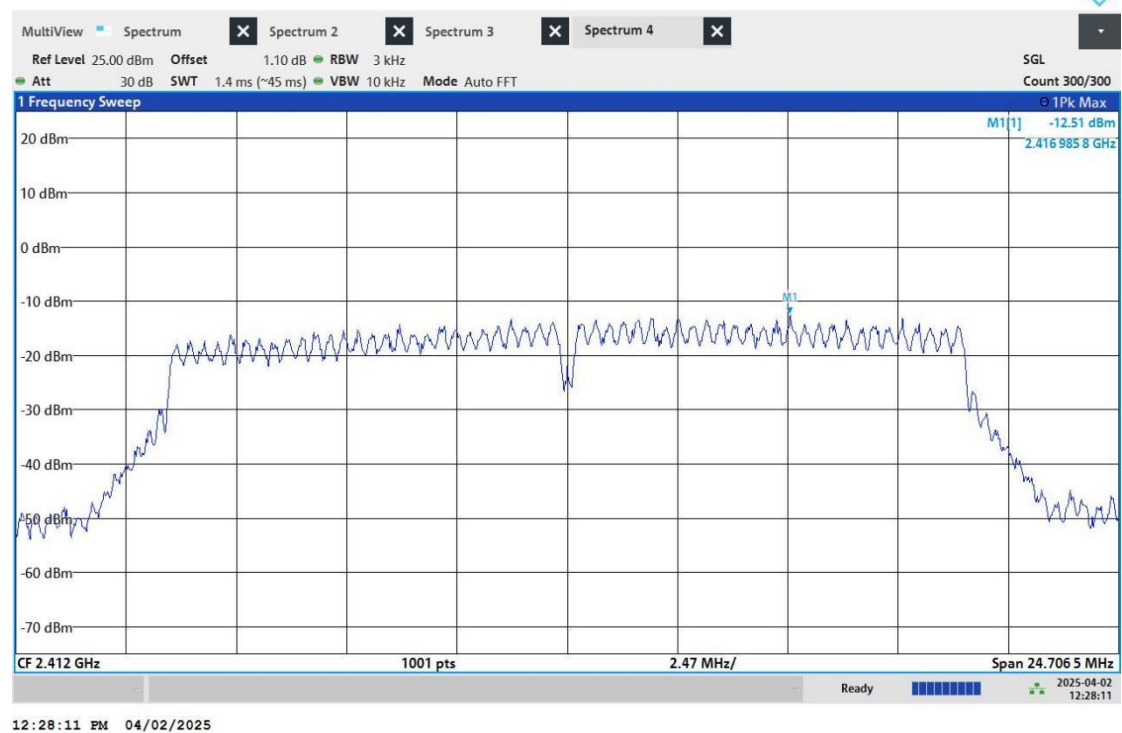
11G_ANT1_2437



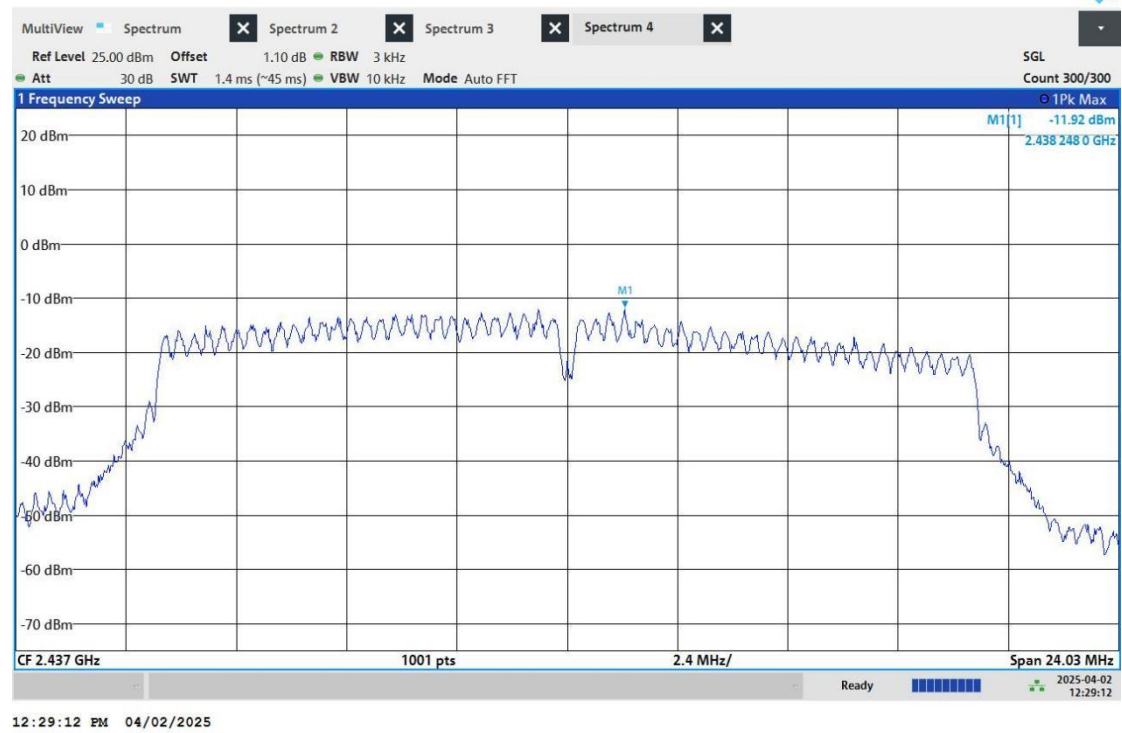
11G_ANT1_2462



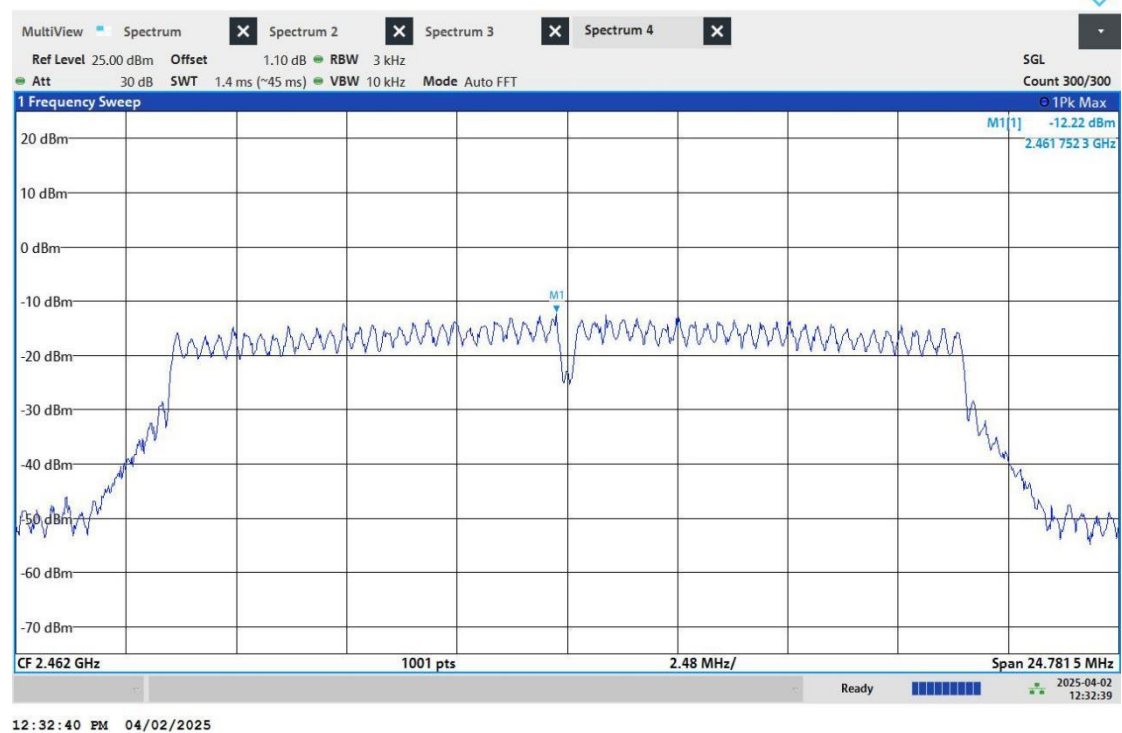
11N20_ANT1_2412



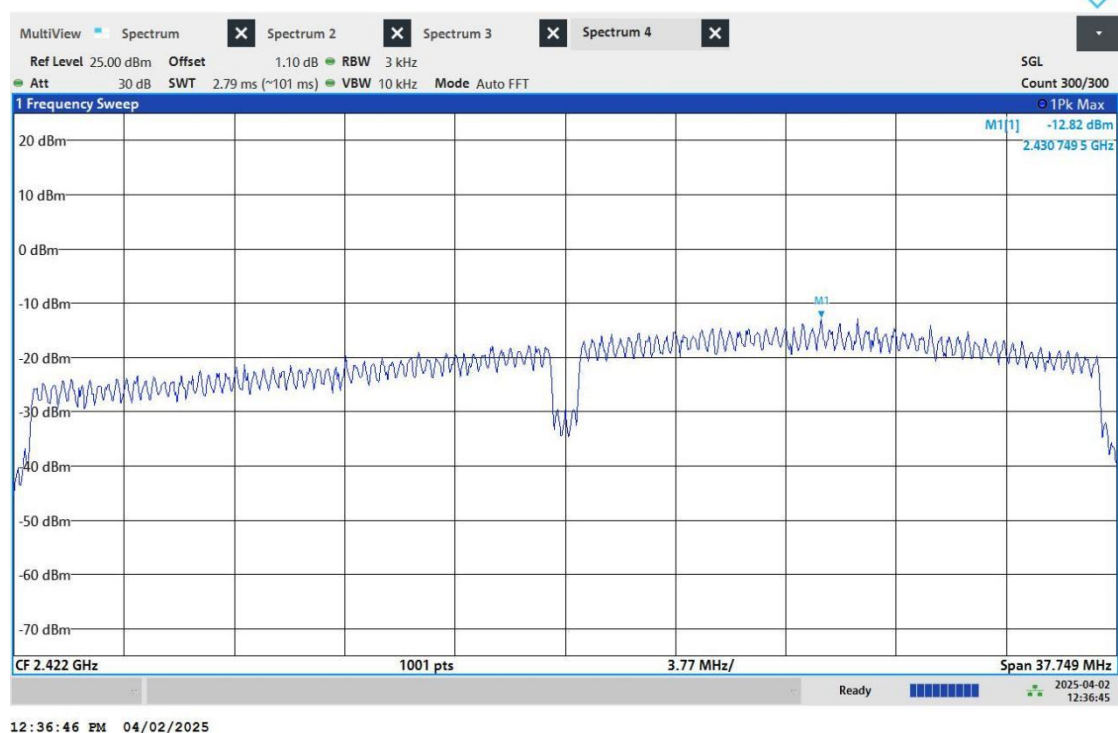
11N20_ANT1_2437



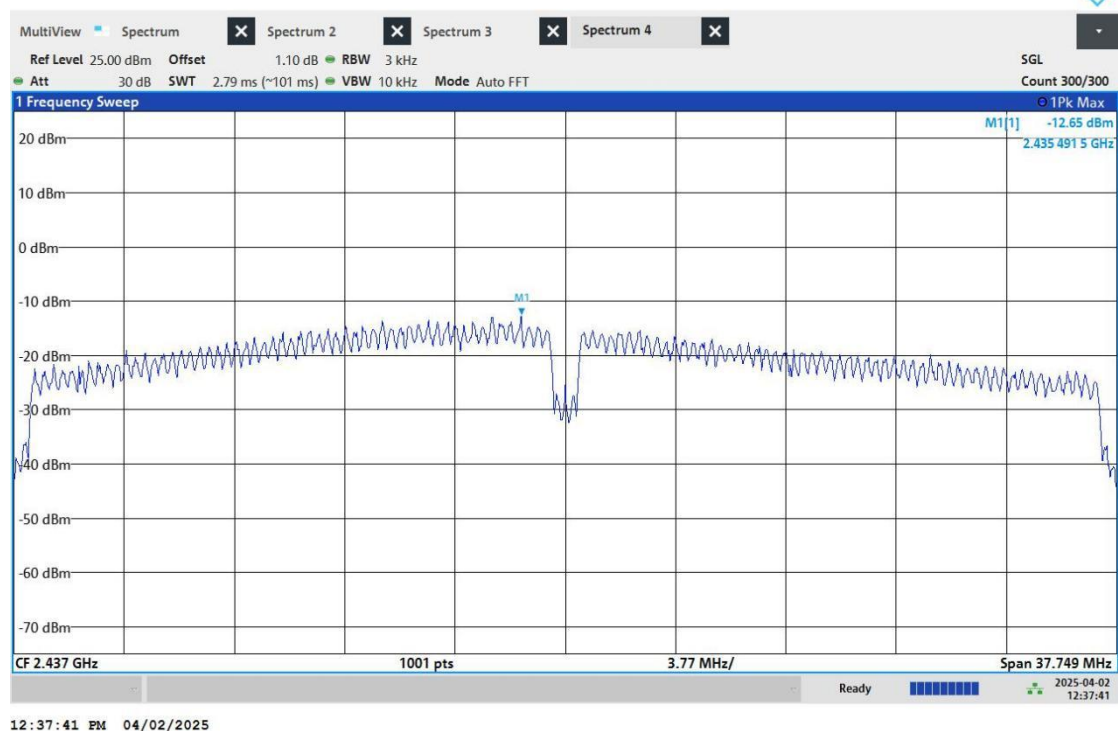
11N20_ANT1_2462



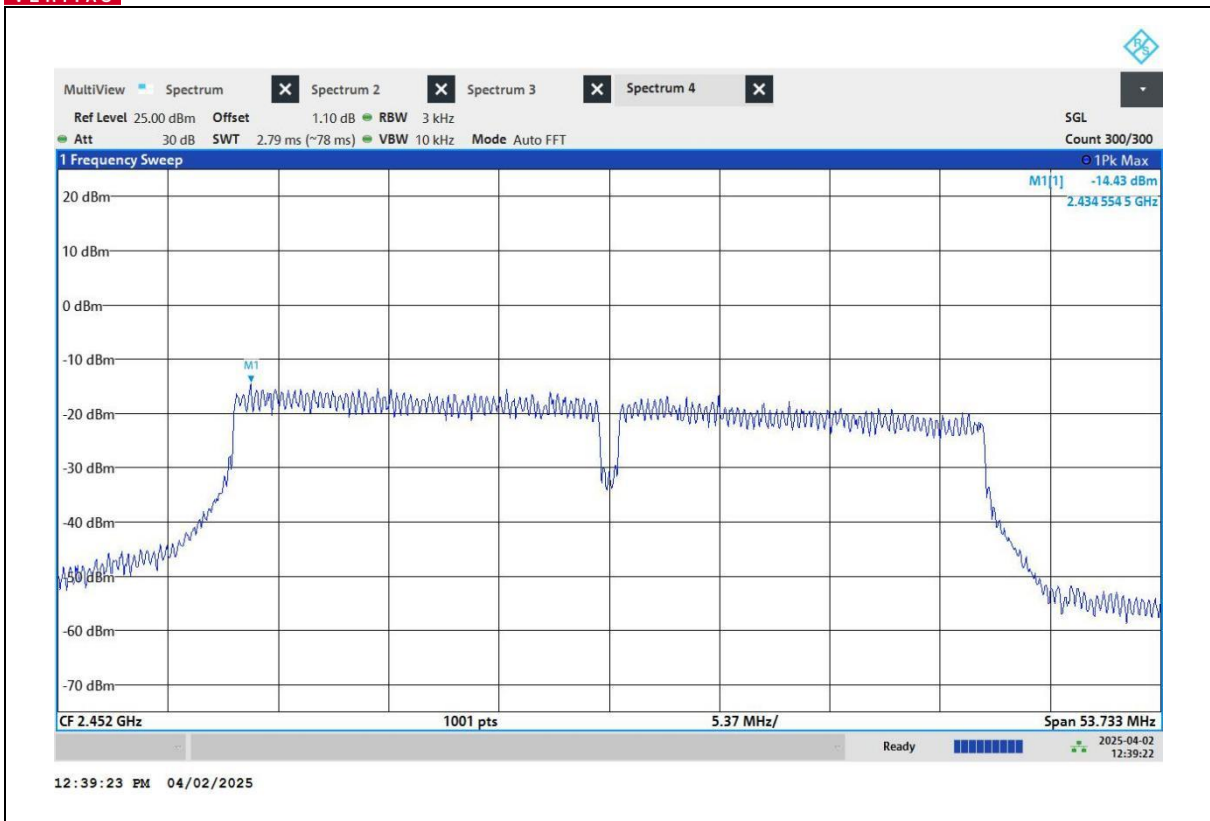
11N40_ANT1_2422



11N40_ANT1_2438



11N40_ANT1_2452



BAND EDGE MEASUREMENTS

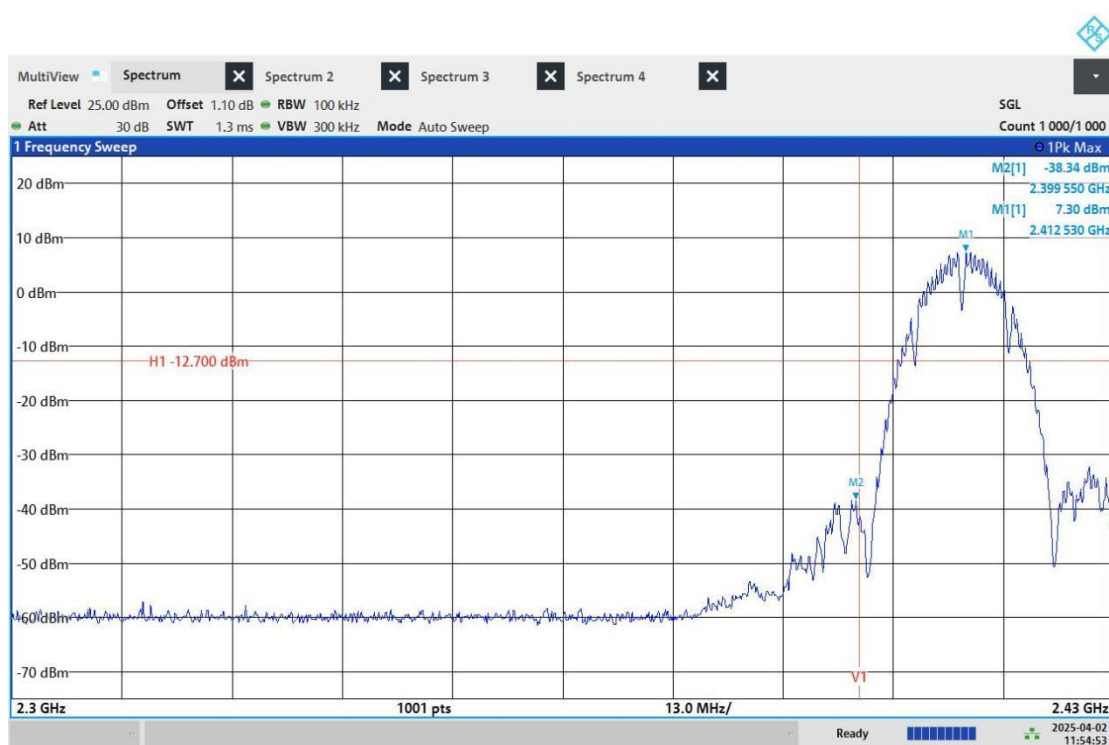
TEST RESULT

TestMode	Antenna	ChName	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	ANT1	Low	2412	See test graph	See test graph	PASS
	ANT1	High	2462	See test graph	See test graph	PASS
11G	ANT1	Low	2412	See test graph	See test graph	PASS
	ANT1	High	2462	See test graph	See test graph	PASS
11N20	ANT1	Low	2412	See test graph	See test graph	PASS
	ANT1	High	2462	See test graph	See test graph	PASS
11N40	ANT1	Low	2422	See test graph	See test graph	PASS
	ANT1	High	2452	See test graph	See test graph	PASS



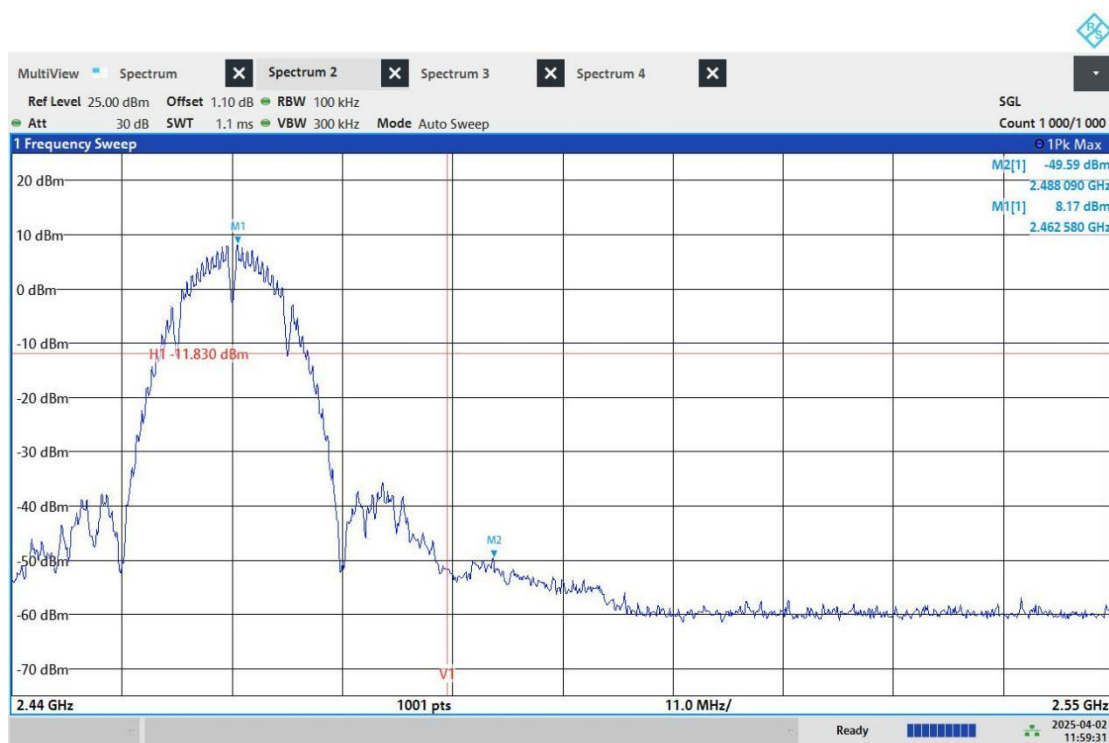
TEST GRAPHS

11B-CDD_ANT1_Low_2412



11:54:53 AM 04/02/2025

11B-CDD_ANT1_High_2462



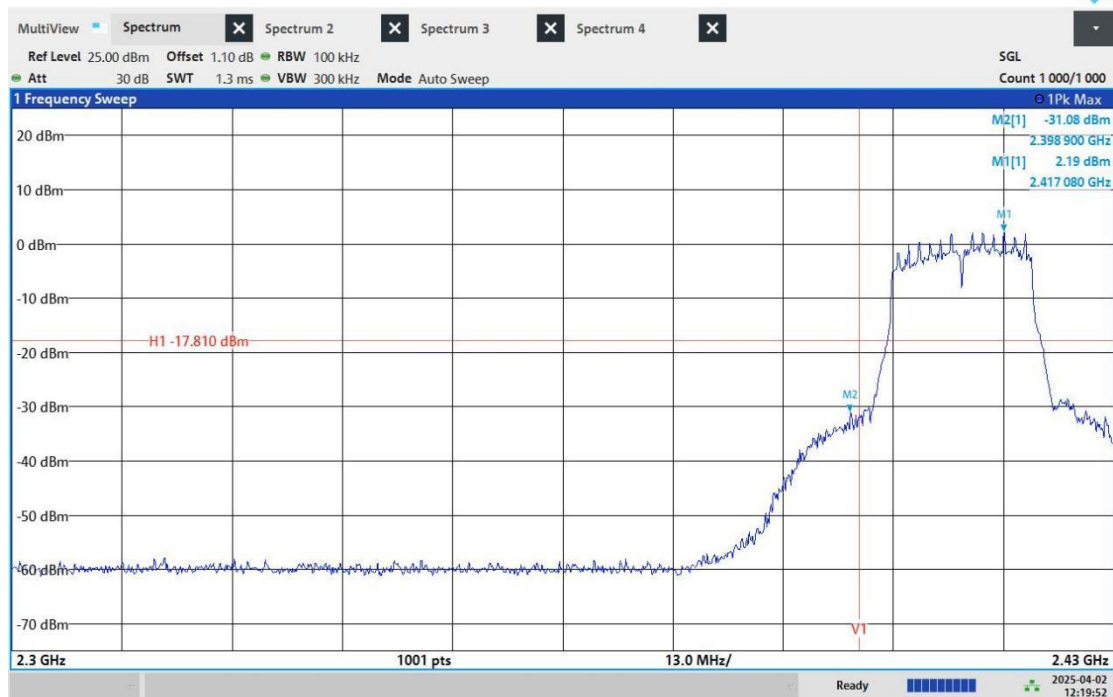
11:59:31 AM 04/02/2025

11G-CDD_ANT1_Low_2412

Huarui 7layers High Technology
(Suzhou) Co., Ltd.

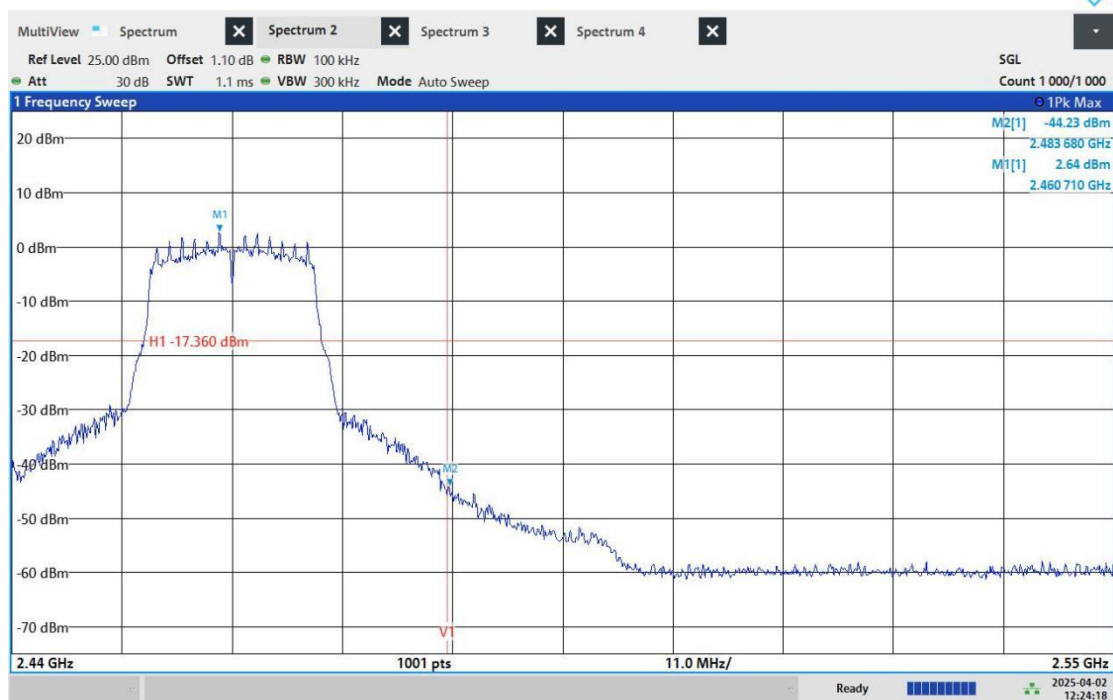
Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

Tel: +86 (0557) 368 1008



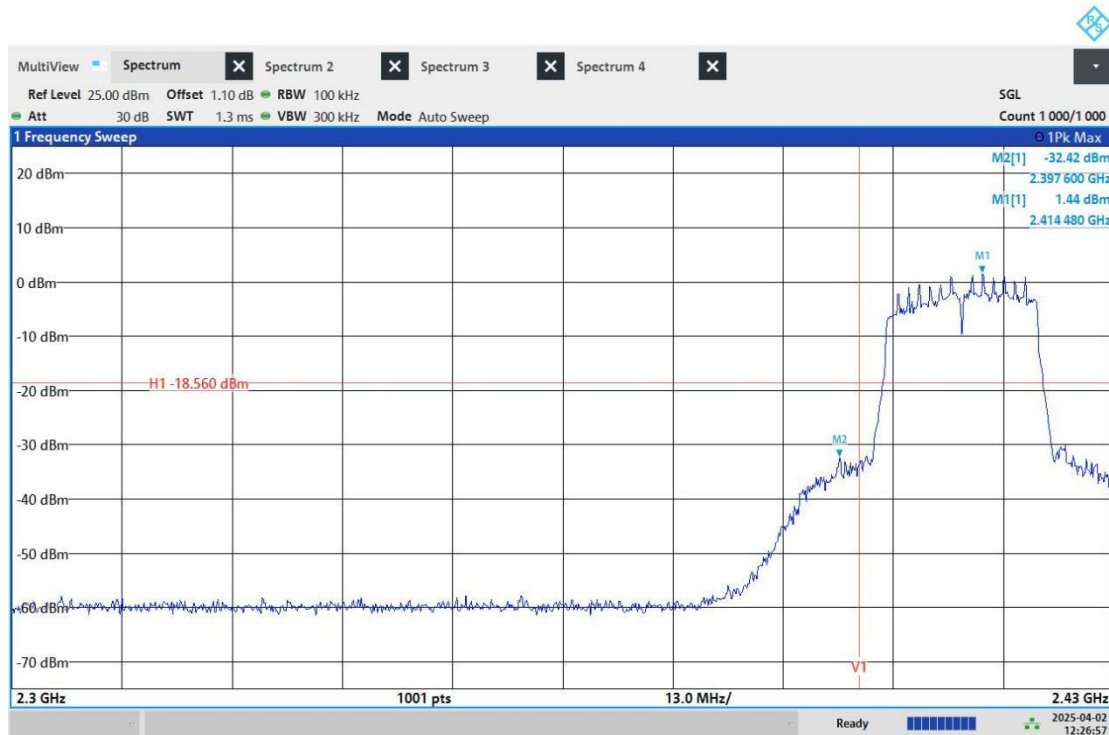
12:19:52 PM 04/02/2025

11G-CDD_ANT1_High_2462



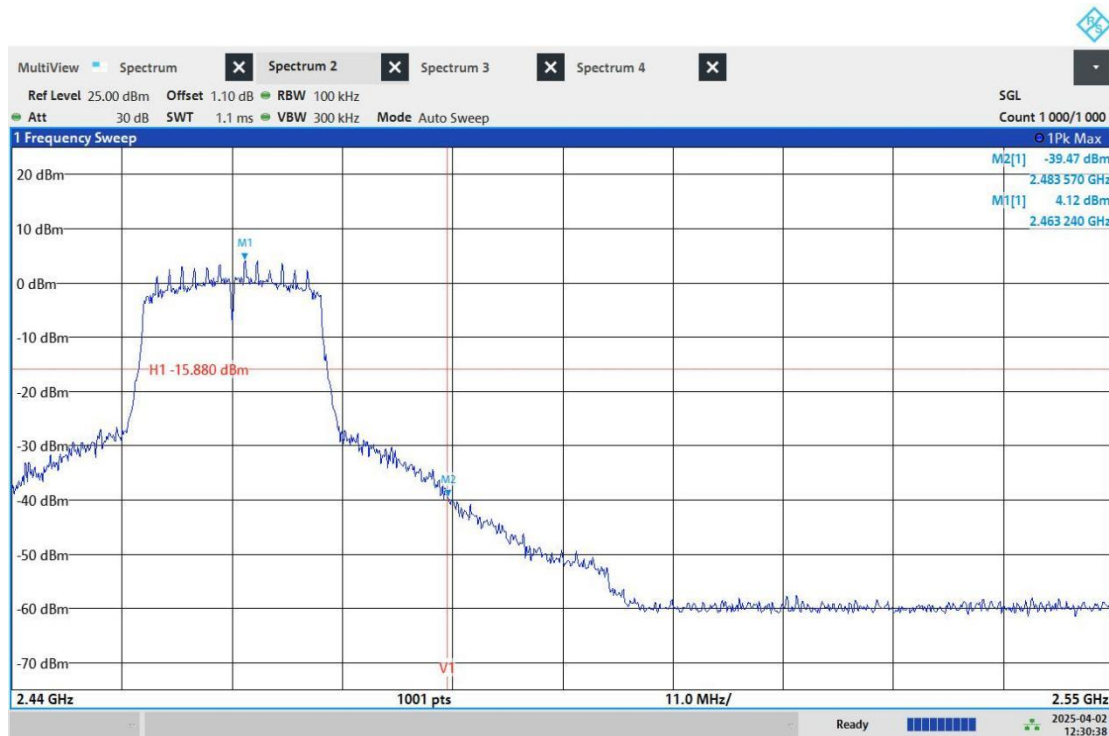
12:24:19 PM 04/02/2025

11N20SISO_ANT1_Low_2412



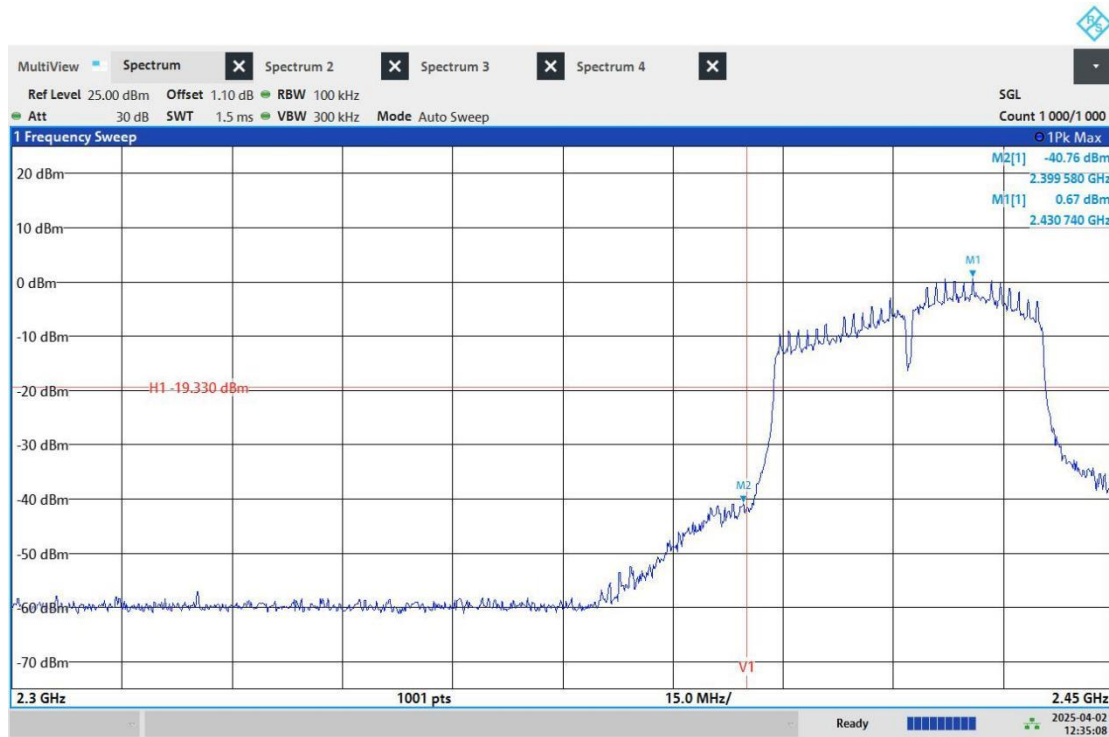
12:26:58 PM 04/02/2025

11N20SISO_ANT1_High_2462

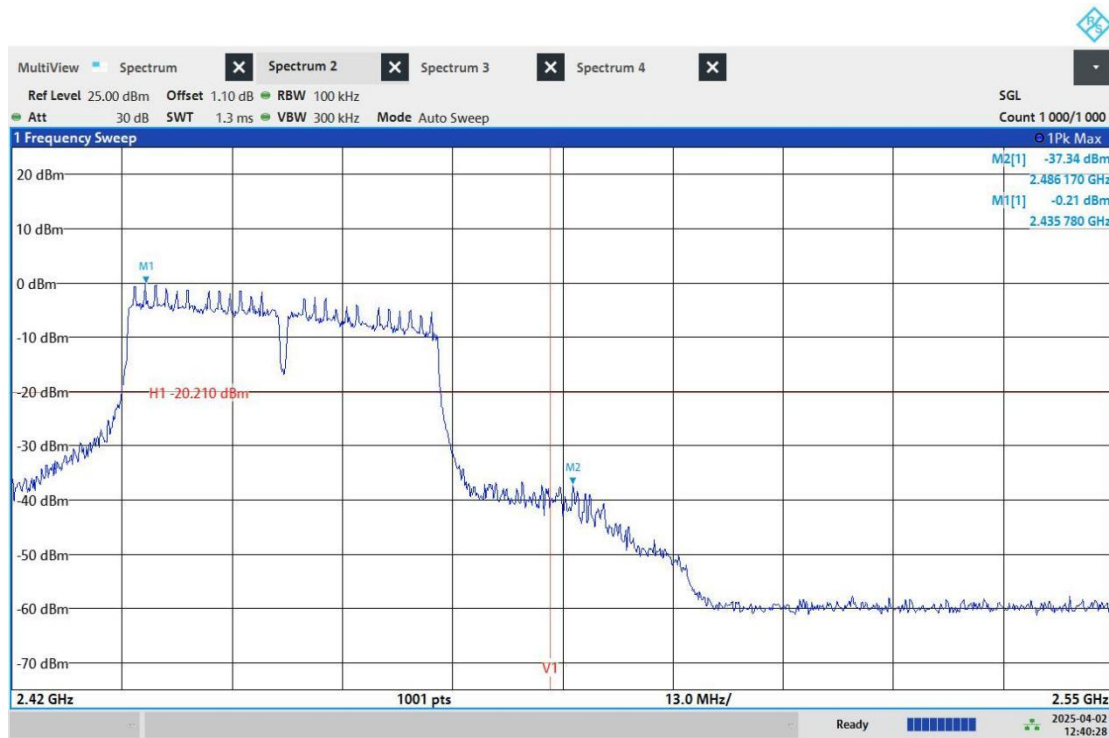


12:30:38 PM 04/02/2025

11N40SISO_ANT1_Low_2422



11N40SISO_ANT1_High_2452



CONDUCTED SPURIOUS EMISSION

TEST RESULT

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	Result [dBm]	Limit [dBm]	Verdict
11B	ANT1	2412	30~260000	See test graph	See test graph	PASS
	ANT1	2437	30~260000	See test graph	See test graph	PASS
	ANT1	2462	30~260000	See test graph	See test graph	PASS
11G	ANT1	2412	30~260000	See test graph	See test graph	PASS
	ANT1	2437	30~260000	See test graph	See test graph	PASS
	ANT1	2462	30~260000	See test graph	See test graph	PASS
11N20	ANT1	2412	30~260000	See test graph	See test graph	PASS
	ANT1	2437	30~260000	See test graph	See test graph	PASS
	ANT1	2462	30~260000	See test graph	See test graph	PASS
11N40	ANT1	2422	30~260000	See test graph	See test graph	PASS
	ANT1	2437	30~260000	See test graph	See test graph	PASS
	ANT1	2452	30~260000	See test graph	See test graph	PASS

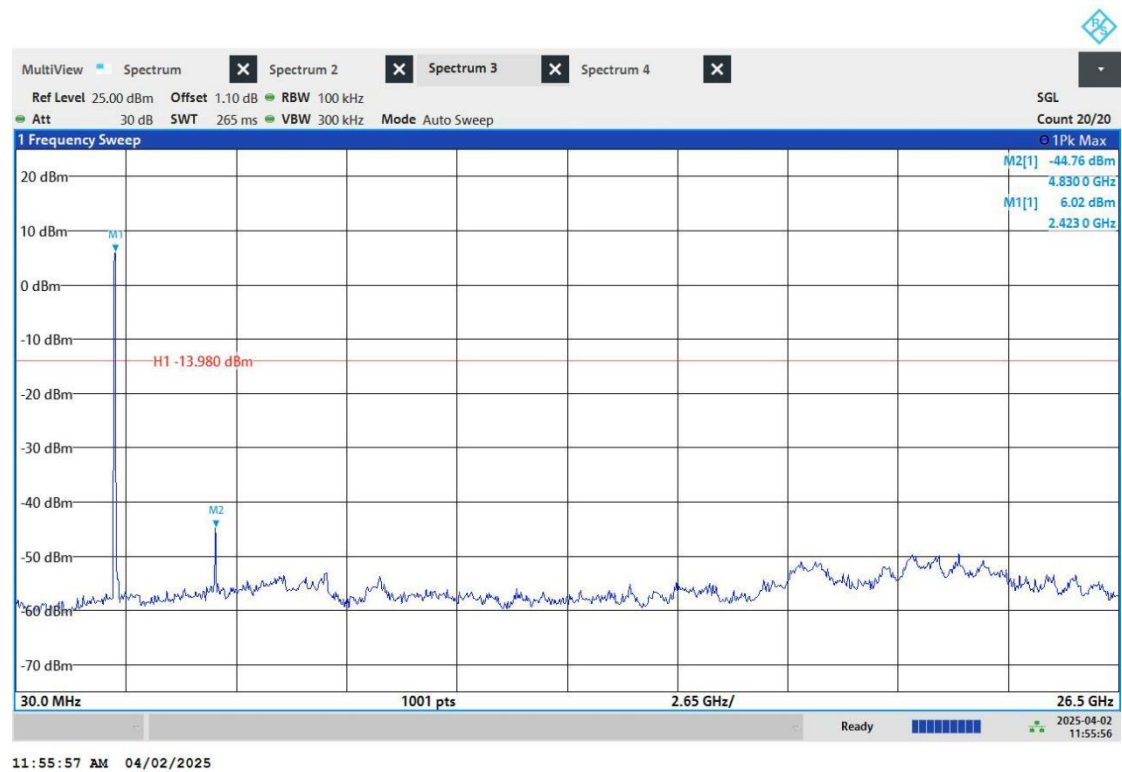


BUREAU
VERITAS

Test Report No.: PSU-QSU2503210311RF06

TEST GRAPHS

11B_ANT1_2412_30~260000



11B_ANT1_2437_30~260000

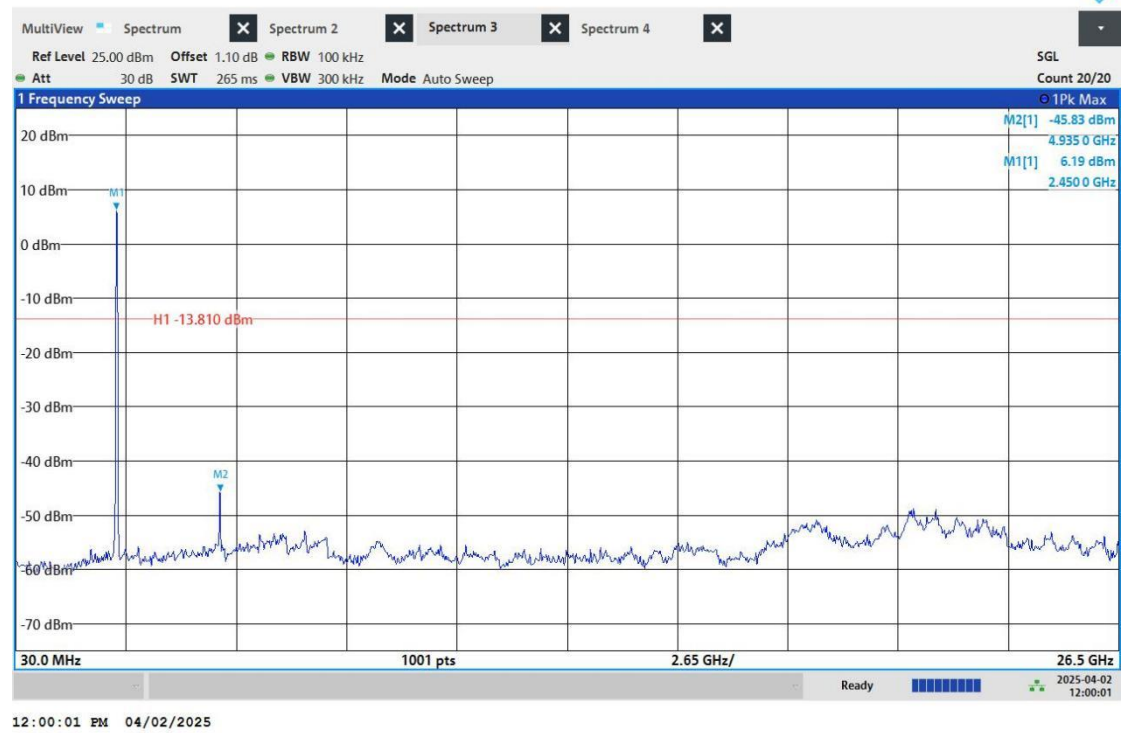


11B_ANT1_2462_30~260000

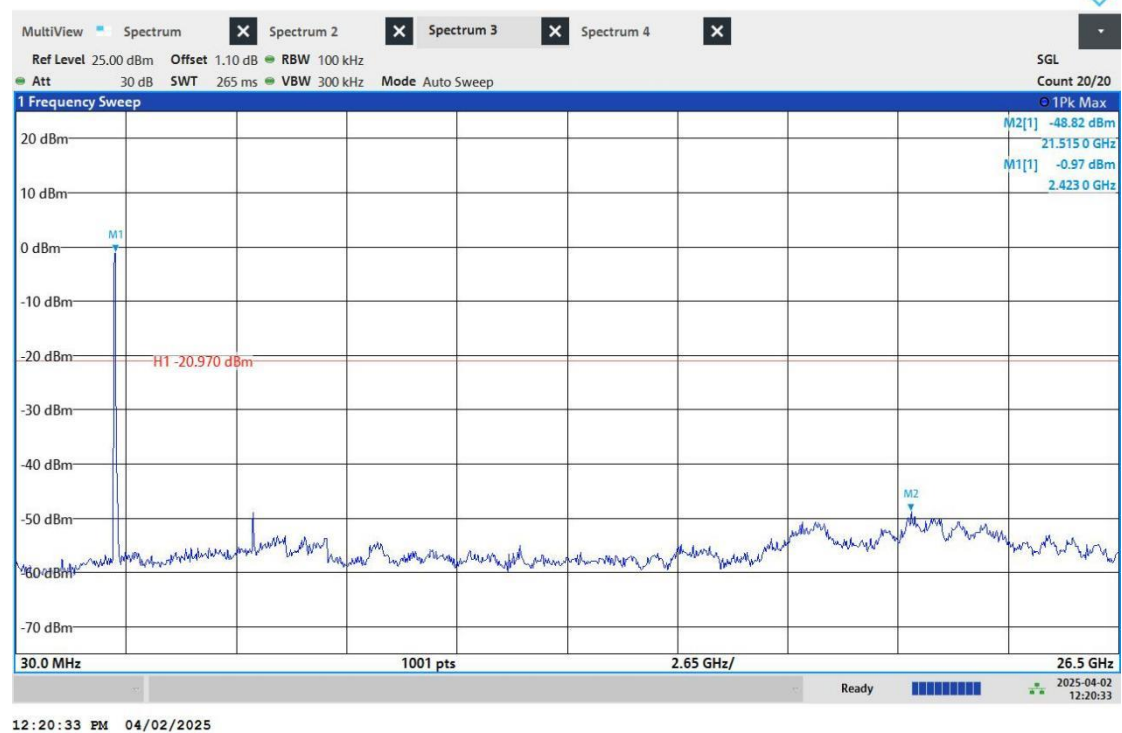
Huarui 7layers High Technology
(Suzhou) Co., Ltd.

Tower N, Innovation Center, 88 Zuyi Road, High-tech
District, Suzhou City, Anhui Province, China

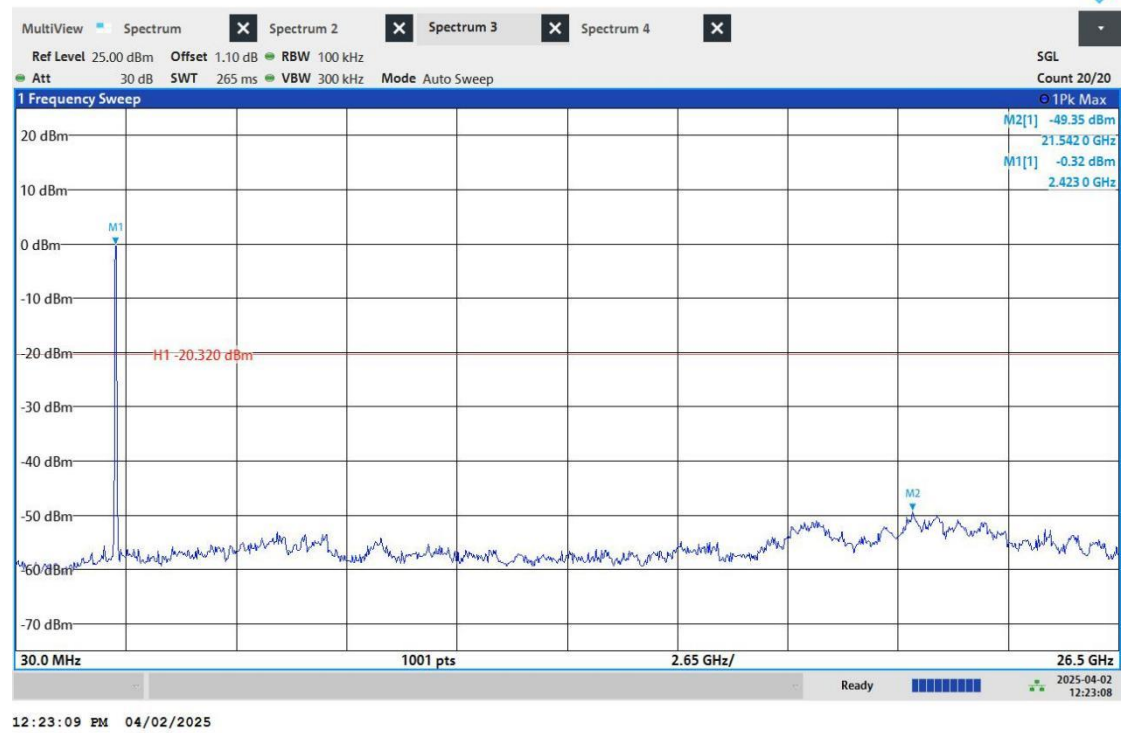
Tel: +86 (0557) 368 1008



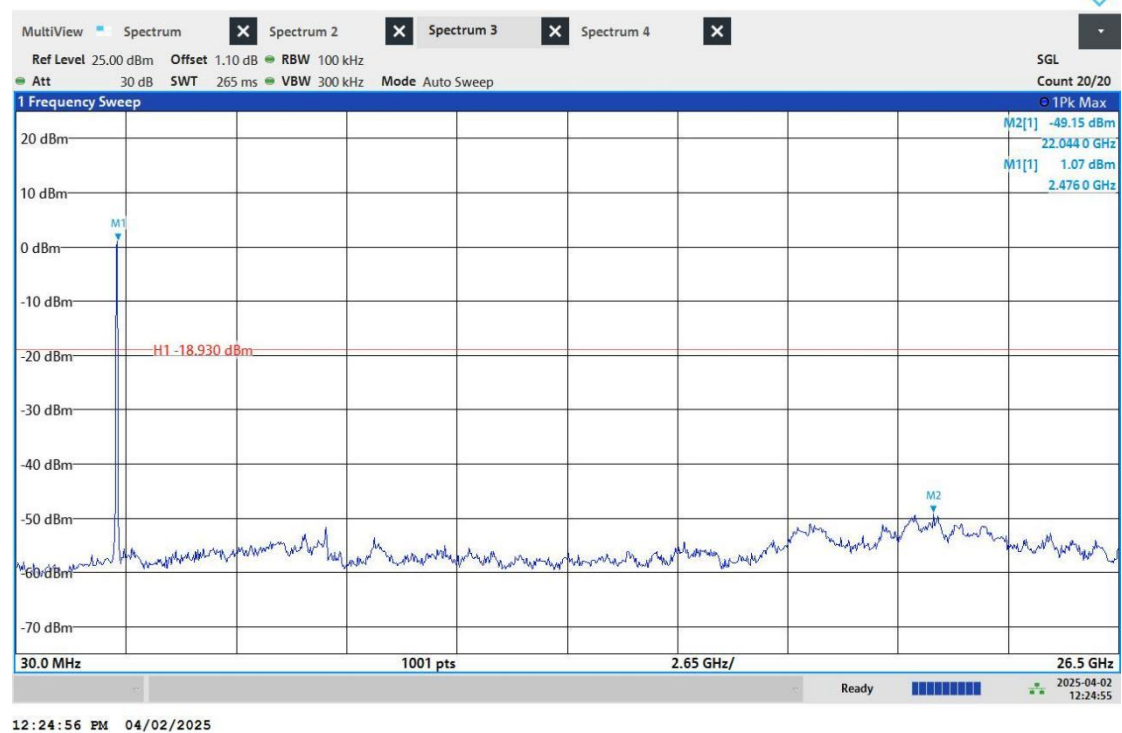
11G_ANT1_2412_30~260000



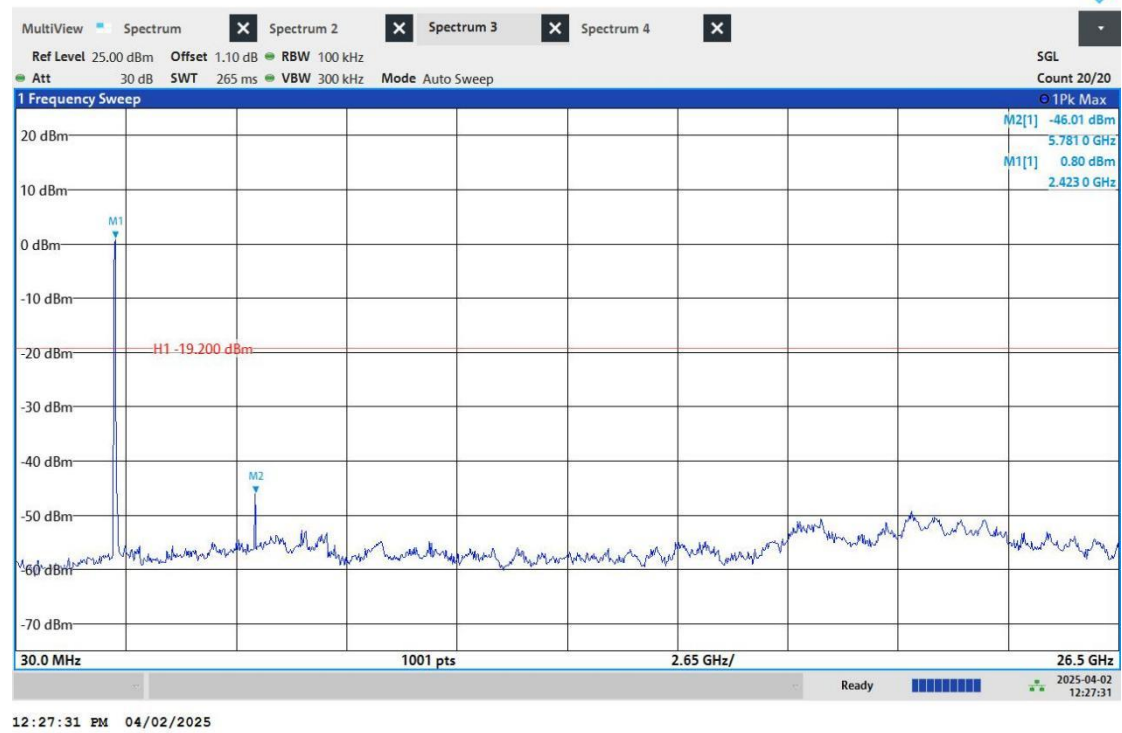
11G_ANT1_2437_30~260000



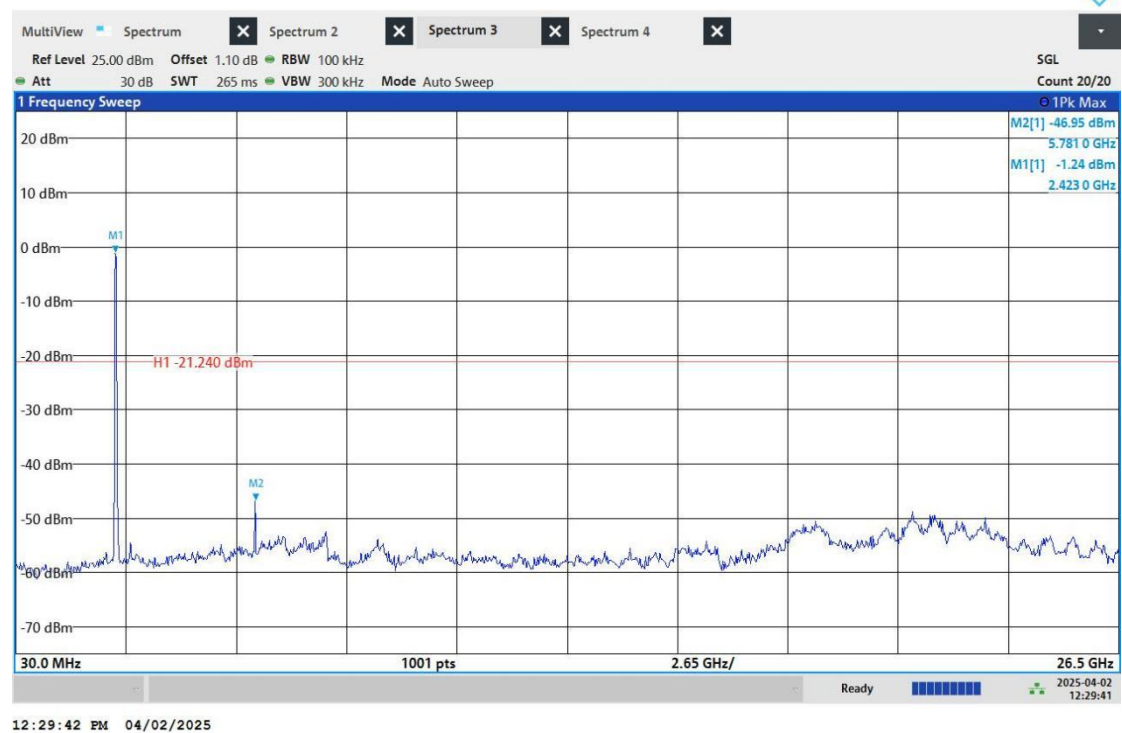
11G_ANT1_2462_30~260000



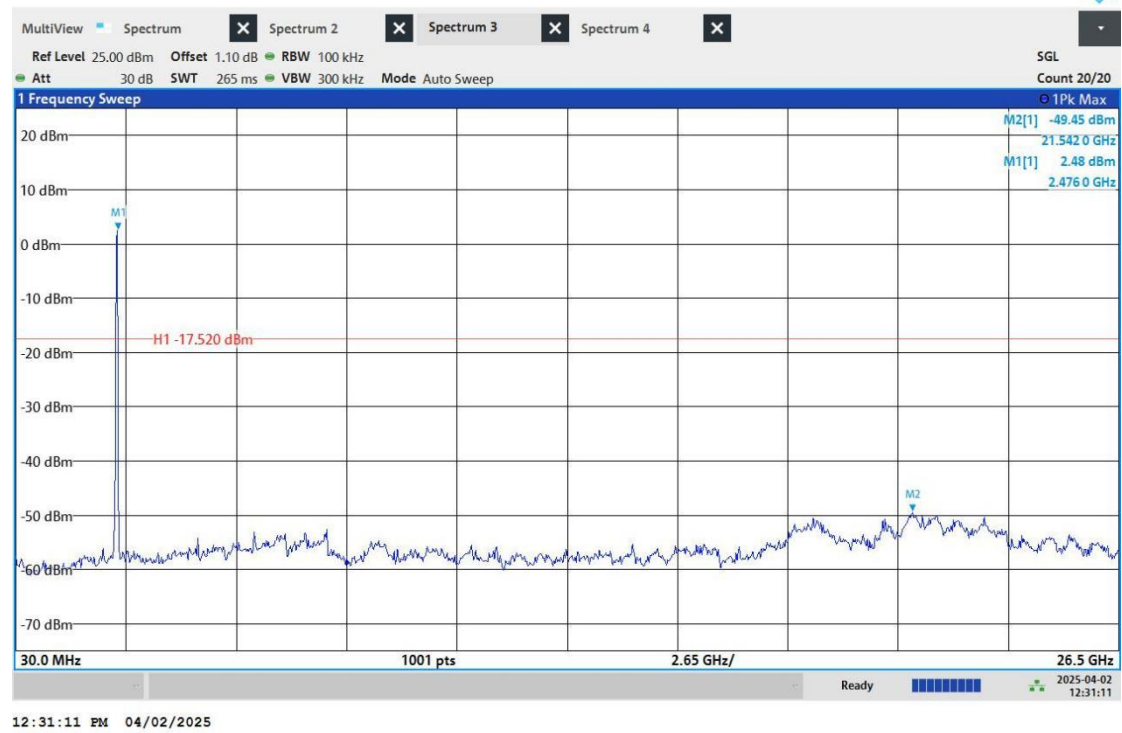
11N20_ANT1_2412_30~260000



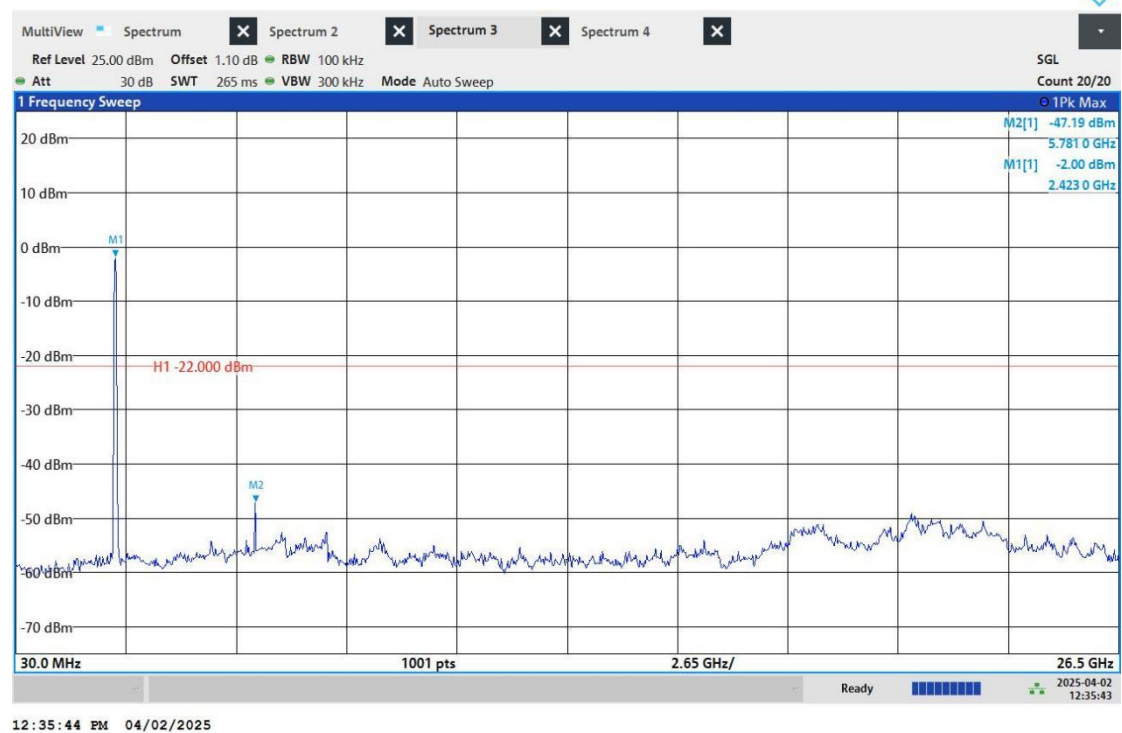
11N20_ANT1_2437_30~260000



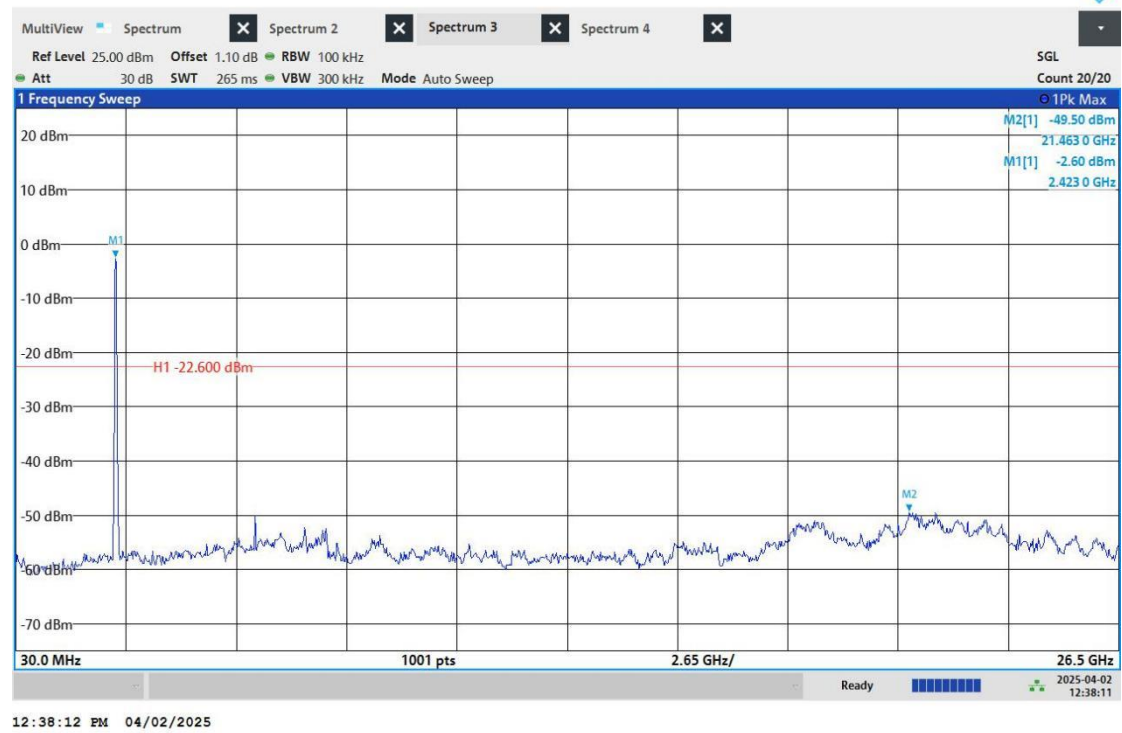
11N20_ANT1_2462_30~260000



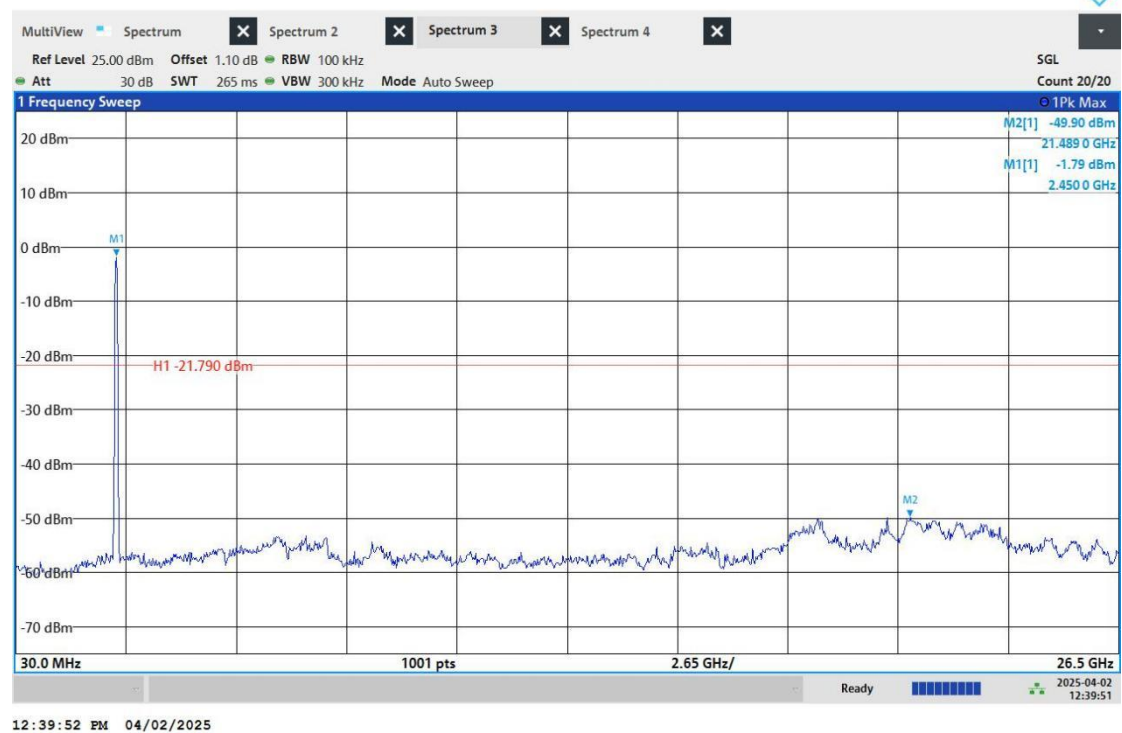
11N40_ANT1_2422_30~260000



11N40_ANT1_2437_30~260000



11N40_ANT1_2452_30~260000





DUTY CYCLE

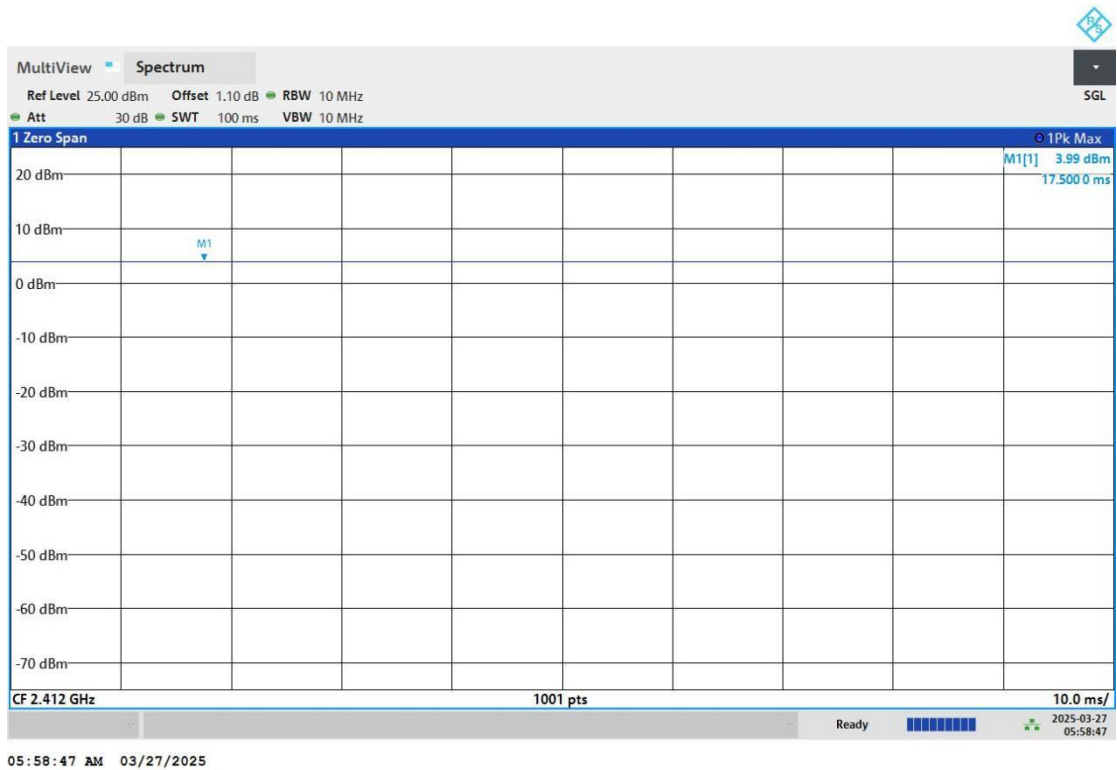
TEST RESULT

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmissio n Period [ms]	Duty Cycle [%]	dutycyc le factor
11B	ANT1	2412	100	100	100	0
11G	ANT1	2412	1.392	1.434	97.07	0.13
11N20	ANT1	2412	1.302	1.344	96.88	0.14
11N40	ANT1	2422	0.648	0.693	93.51	0.29

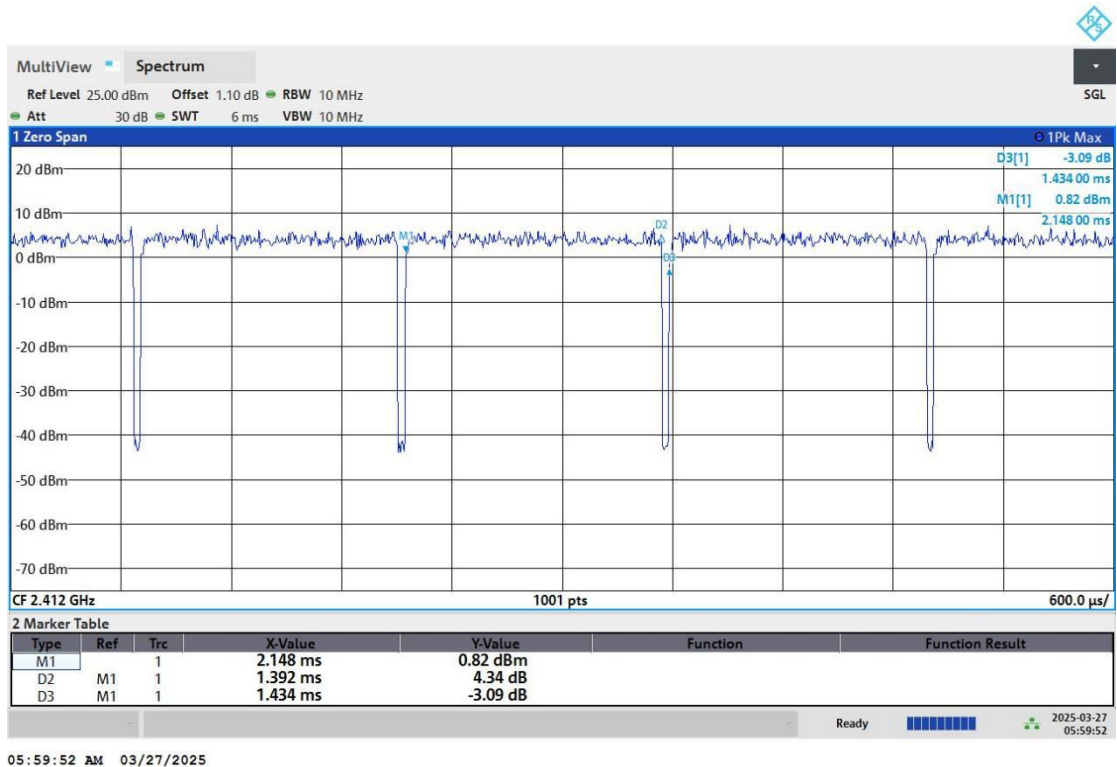


TEST GRAPHS

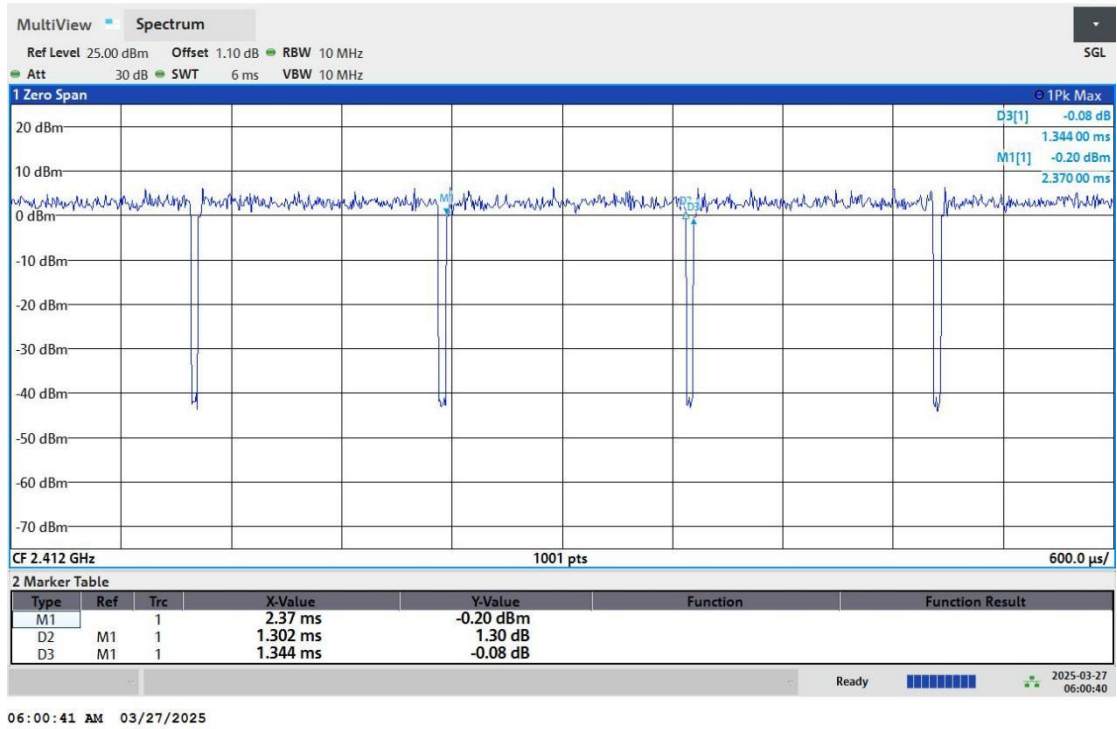
11B_ANT1_2412



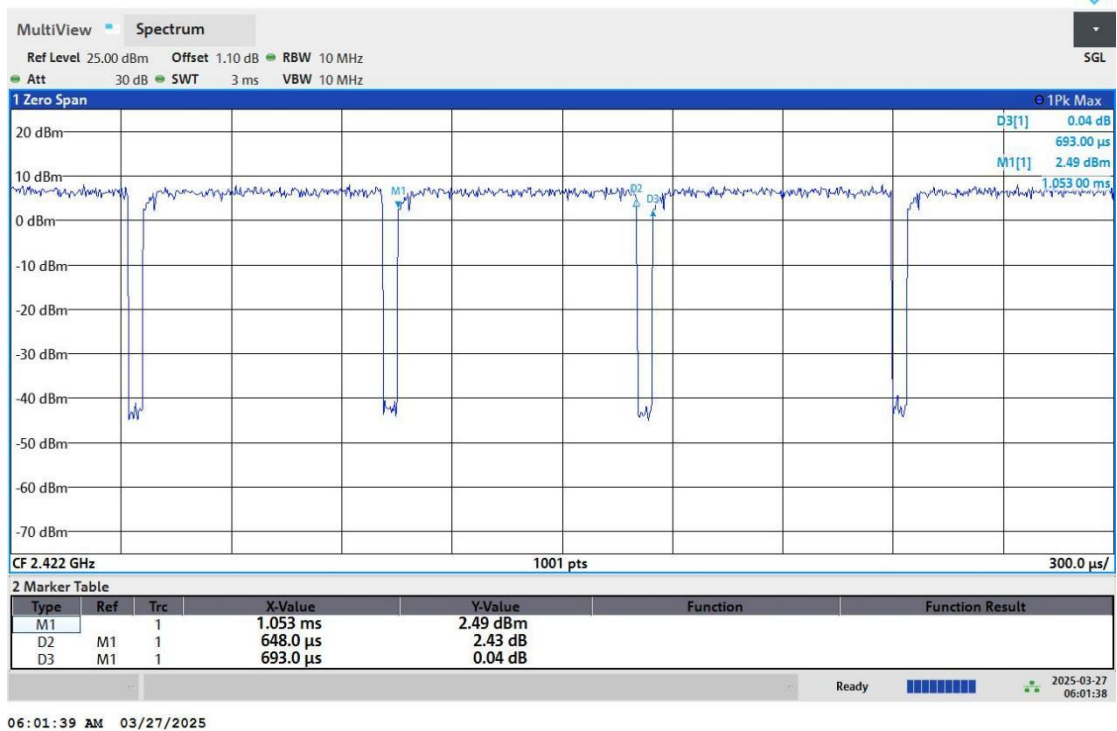
11G_ANT1_2412



11N20_ANT1_2412



11N40_ANT1_2422





7 APPENDIX B:BLE DTS BANDWIDTH

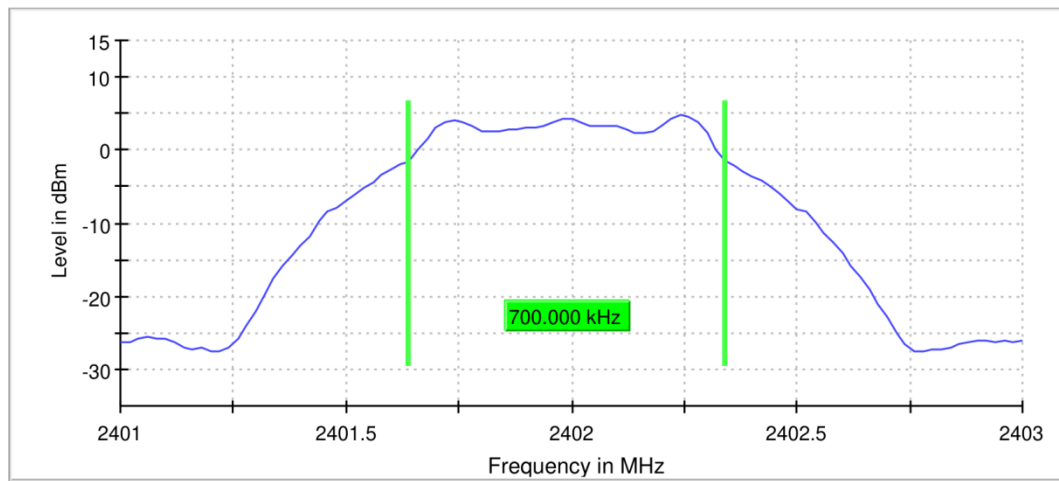
TEST RESULT

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	ANT1	2402	0.700	2401.640	2402.340	0.5	PASS
		2440	0.700	2439.640	2440.340	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_2M	ANT1	2404	1.280	2403.360	2404.640	0.5	PASS
		2440	1.280	2439.360	2440.640	0.5	PASS
		2478	1.280	2477.360	2478.640	0.5	PASS
BLE-S2	ANT1	2402	0.720	2401.640	2402.360	0.5	PASS
		2440	0.720	2439.640	2440.360	0.5	PASS
		2480	0.720	2479.640	2480.360	0.5	PASS
BLE_S8	ANT1	2402	0.740	2401.620	2402.360	0.5	PASS
		2440	0.740	2439.620	2440.360	0.5	PASS
		2480	0.740	2479.620	2480.360	0.5	PASS



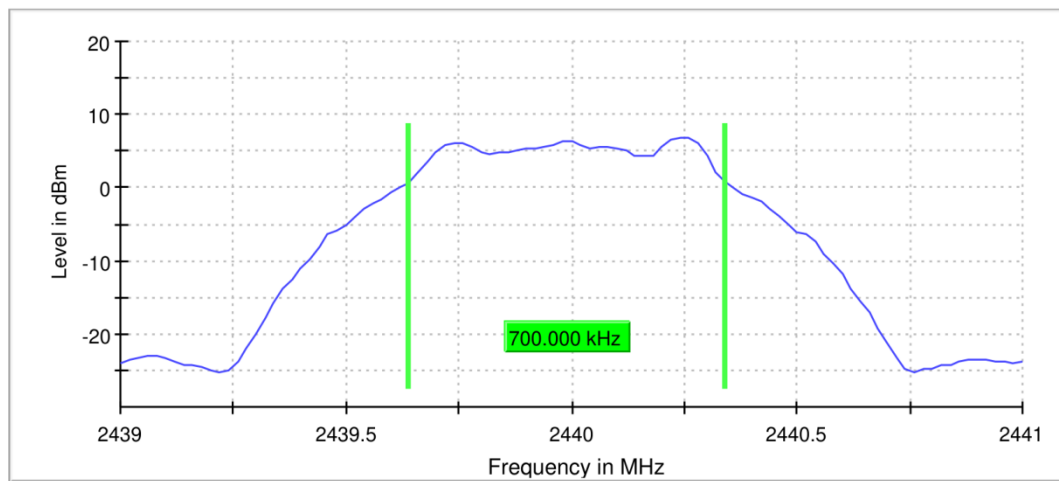
BLE_1M_ANT1_2402

6 dB Bandwidth



BLE_1M_ANT1_2440

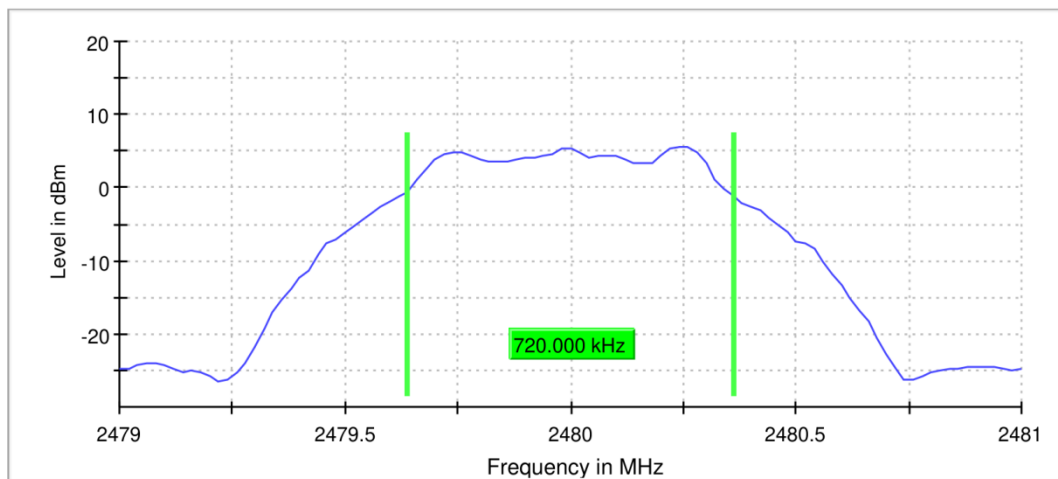
6 dB Bandwidth



BLE_1M_ANT1_2480

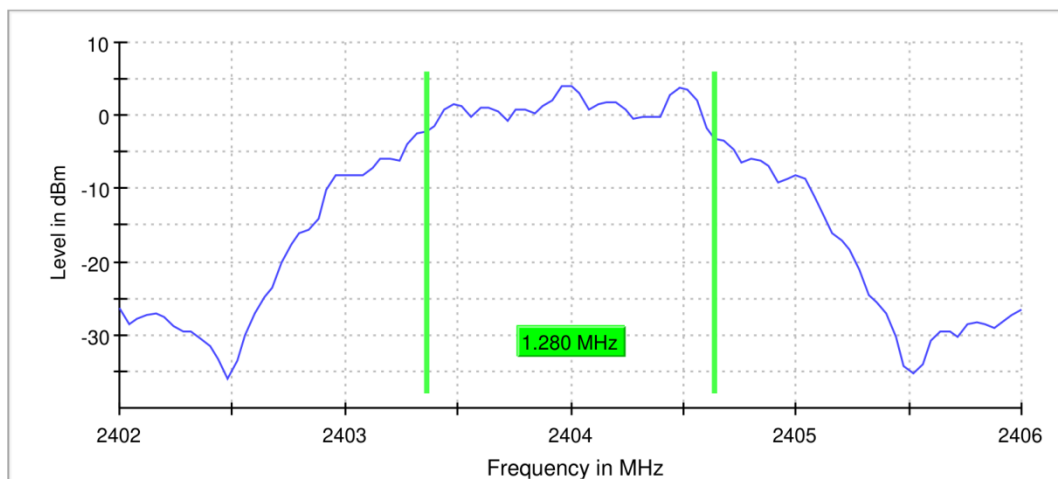


6 dB Bandwidth



BLE_2M_ANT1_2404

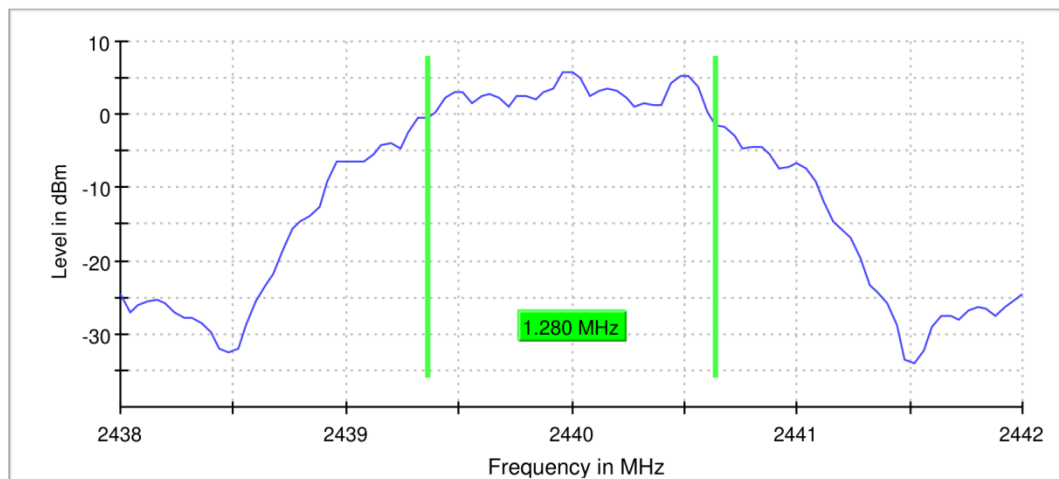
6 dB Bandwidth



BLE_2M_ANT1_2440

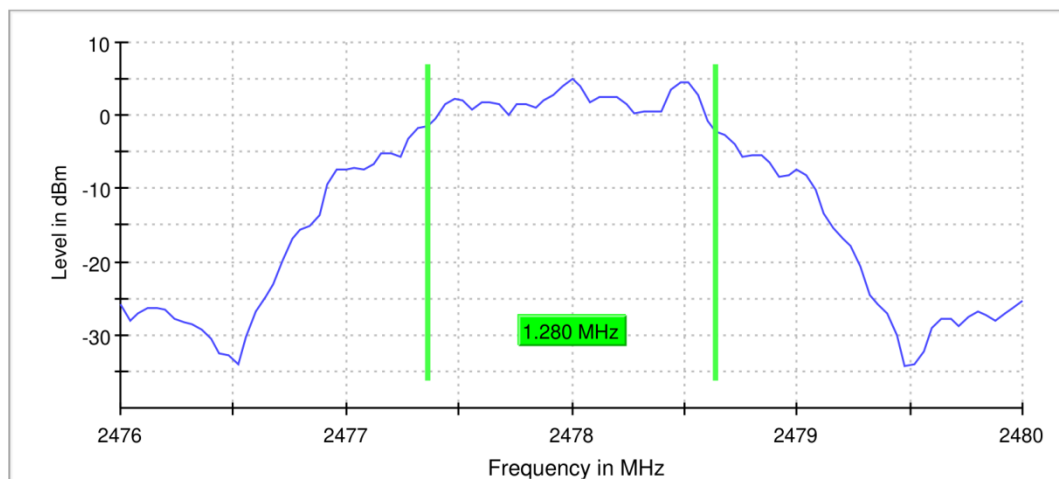


6 dB Bandwidth



BLE_2M_ANT1_2478

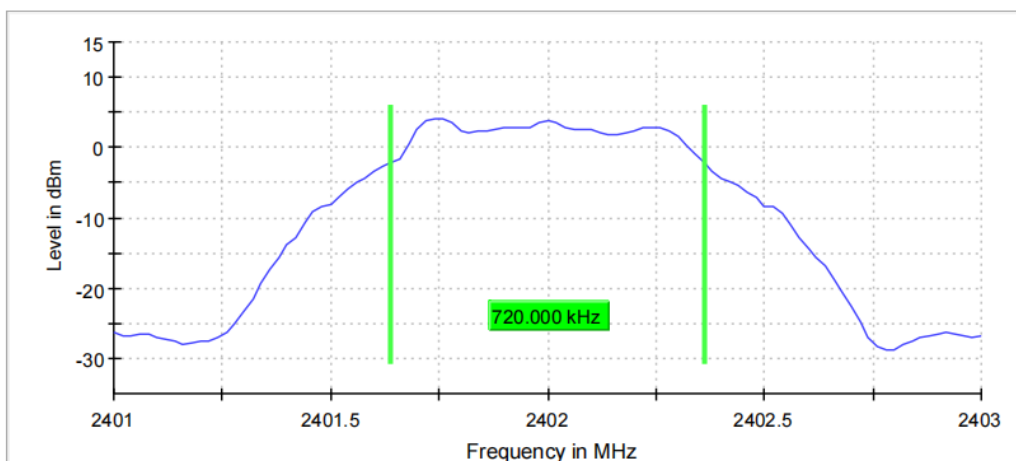
6 dB Bandwidth



BLE_S2_ANT1_2402

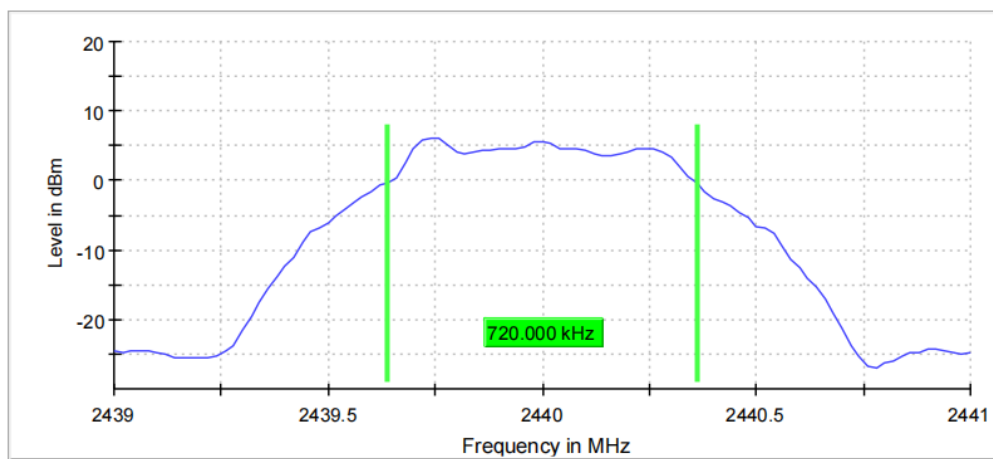


6 dB Bandwidth



BLE_S2_ANT1_2440

6 dB Bandwidth



BLE_S2_ANT1_2480

6 dB Bandwidth

