

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

General Description of EUT	
Product Name:	DOCSIS 3.1 Cable Modem DOCSIS 3.1 EMTA AX6000 DOCSIS 3.1 Cable Modem
Test Model:	NE6037
Sample ID:	202301-0038-3-2#
Environmental Conditions	
Temperature:	23.8℃
Relative Humidity:	46%
Test Voltage:	DC 12V
Test Engineer:	Haiting Zhou
Note: For a more detailed features description, please refer to the report TBR-C-202301-0038-4.	

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1. DTS Bandwidth

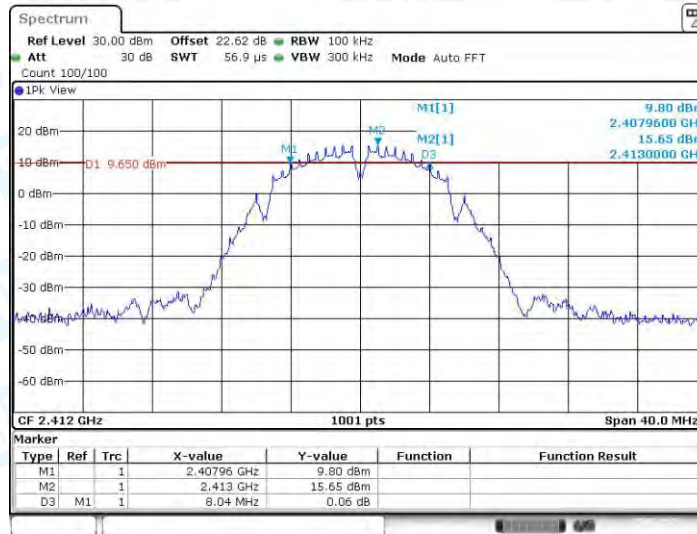
1.1. Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant2	2412	7.08	2408.44	2415.52	0.5	PASS
	Ant3	2412	7.08	2408.44	2415.52	0.5	PASS
	Ant4	2412	8.04	2407.96	2416.00	0.5	PASS
	Ant1	2437	7.08	2433.44	2440.52	0.5	PASS
	Ant2	2437	7.52	2433.00	2440.52	0.5	PASS
	Ant3	2437	7.52	2433.24	2440.76	0.5	PASS
	Ant4	2437	7.08	2433.44	2440.52	0.5	PASS
	Ant1	2462	7.52	2458.08	2465.60	0.5	PASS
	Ant2	2462	8.04	2457.96	2466.00	0.5	PASS
	Ant3	2462	7.12	2458.44	2465.56	0.5	PASS
	Ant4	2462	7.08	2458.44	2465.52	0.5	PASS
11G	Ant1	2412	16.36	2403.80	2420.16	0.5	PASS
	Ant2	2412	16.44	2403.76	2420.20	0.5	PASS
	Ant3	2412	16.56	2403.72	2420.28	0.5	PASS
	Ant4	2412	16.56	2403.72	2420.28	0.5	PASS
	Ant1	2437	16.56	2428.72	2445.28	0.5	PASS
	Ant2	2437	16.40	2428.80	2445.20	0.5	PASS
	Ant3	2437	16.36	2428.80	2445.16	0.5	PASS
	Ant4	2437	16.48	2428.80	2445.28	0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
	Ant2	2462	16.52	2453.76	2470.28	0.5	PASS
	Ant3	2462	16.40	2453.80	2470.20	0.5	PASS
	Ant4	2462	16.40	2453.80	2470.20	0.5	PASS
11N20MIMO	Ant1	2412	17.60	2403.20	2420.80	0.5	PASS
	Ant2	2412	17.76	2403.12	2420.88	0.5	PASS
	Ant3	2412	17.68	2403.12	2420.80	0.5	PASS
	Ant4	2412	17.64	2403.16	2420.80	0.5	PASS
	Ant1	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant2	2437	17.76	2428.12	2445.88	0.5	PASS
	Ant3	2437	17.64	2428.16	2445.80	0.5	PASS
	Ant4	2437	17.60	2428.20	2445.80	0.5	PASS
	Ant1	2462	17.80	2453.08	2470.88	0.5	PASS
	Ant2	2462	17.60	2453.20	2470.80	0.5	PASS
	Ant3	2462	17.84	2453.08	2470.92	0.5	PASS
	Ant4	2462	17.80	2453.08	2470.88	0.5	PASS
11N40MIMO	Ant1	2422	36.40	2403.76	2440.16	0.5	PASS
	Ant2	2422	36.48	2403.76	2440.24	0.5	PASS
	Ant3	2422	36.32	2403.84	2440.16	0.5	PASS
	Ant4	2422	36.56	2403.68	2440.24	0.5	PASS
	Ant1	2437	36.32	2418.84	2455.16	0.5	PASS
	Ant2	2437	36.48	2418.76	2455.24	0.5	PASS
	Ant3	2437	36.48	2418.76	2455.24	0.5	PASS
	Ant4	2437	36.40	2418.76	2455.16	0.5	PASS
	Ant1	2452	36.48	2433.76	2470.24	0.5	PASS
	Ant2	2452	36.40	2433.76	2470.16	0.5	PASS
	Ant3	2452	36.56	2433.68	2470.24	0.5	PASS
	Ant4	2452	36.40	2433.76	2470.16	0.5	PASS
11AX20MIMO	Ant1	2412	18.80	2402.52	2421.32	0.5	PASS
	Ant2	2412	18.88	2402.52	2421.40	0.5	PASS
	Ant3	2412	18.68	2402.64	2421.32	0.5	PASS
	Ant4	2412	19.08	2402.44	2421.52	0.5	PASS

	Ant1	2437	18.96	2427.52	2446.48	0.5	PASS
	Ant2	2437	18.92	2427.48	2446.40	0.5	PASS
	Ant3	2437	19.16	2427.40	2446.56	0.5	PASS
	Ant4	2437	19.04	2427.48	2446.52	0.5	PASS
	Ant1	2462	18.96	2452.52	2471.48	0.5	PASS
	Ant2	2462	18.72	2452.48	2471.20	0.5	PASS
	Ant3	2462	18.84	2452.64	2471.48	0.5	PASS
	Ant4	2462	18.96	2452.52	2471.48	0.5	PASS
11AX40MIMO	Ant1	2422	38.08	2402.96	2441.04	0.5	PASS
	Ant2	2422	37.76	2403.12	2440.88	0.5	PASS
	Ant3	2422	38.08	2402.96	2441.04	0.5	PASS
	Ant4	2422	38.00	2402.96	2440.96	0.5	PASS
	Ant1	2437	38.00	2417.96	2455.96	0.5	PASS
	Ant2	2437	38.08	2418.04	2456.12	0.5	PASS
	Ant3	2437	38.00	2417.96	2455.96	0.5	PASS
	Ant4	2437	37.92	2417.96	2455.88	0.5	PASS
	Ant1	2452	37.84	2432.96	2470.80	0.5	PASS
	Ant2	2452	38.00	2433.12	2471.12	0.5	PASS
	Ant3	2452	38.00	2432.96	2470.96	0.5	PASS
	Ant4	2452	38.08	2432.96	2471.04	0.5	PASS

1.2. Test Graphs

11B_Ant1_2412



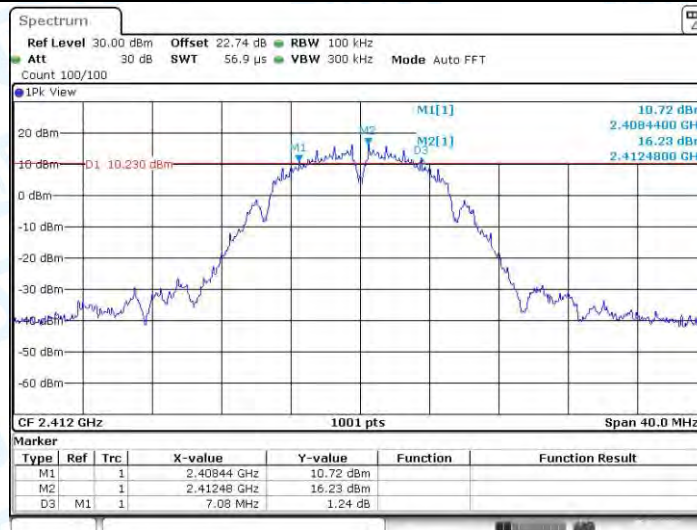
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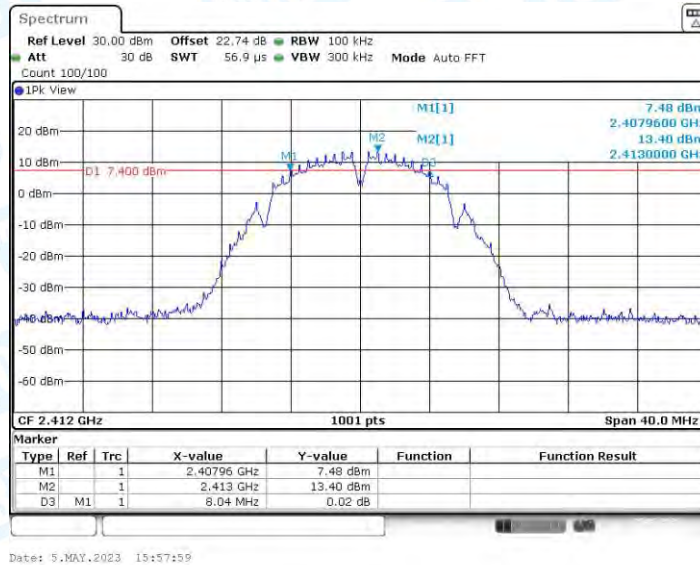
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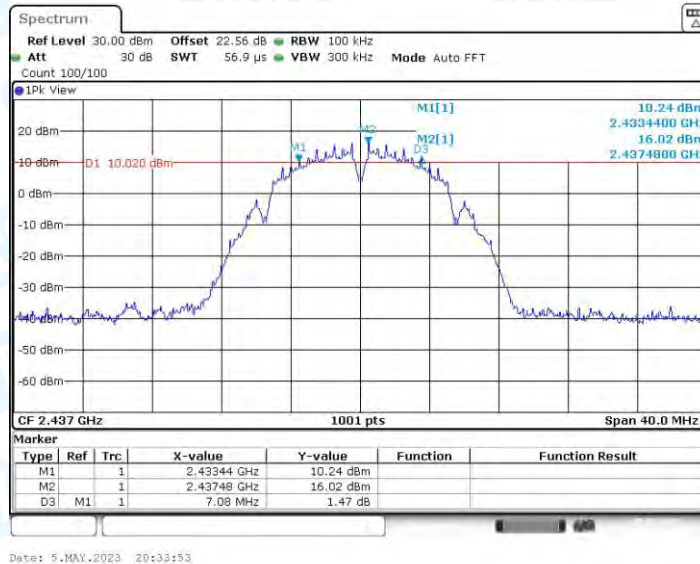


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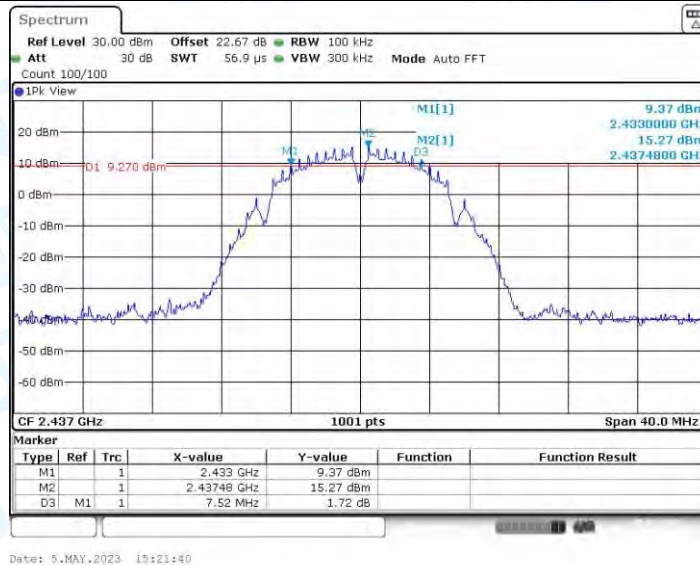
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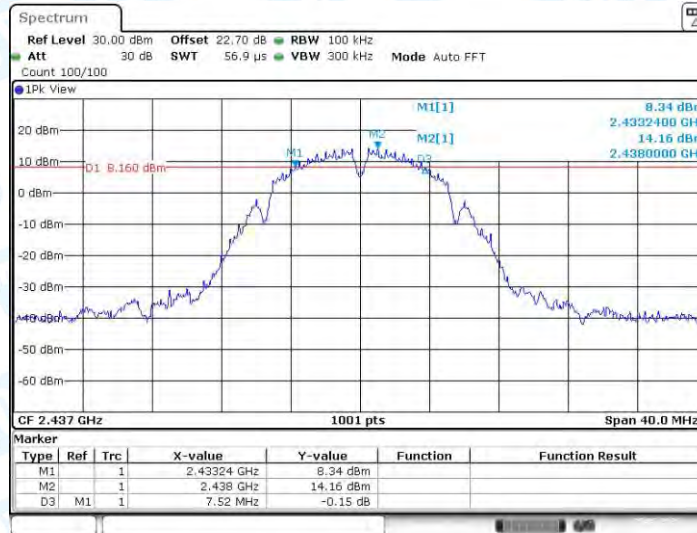
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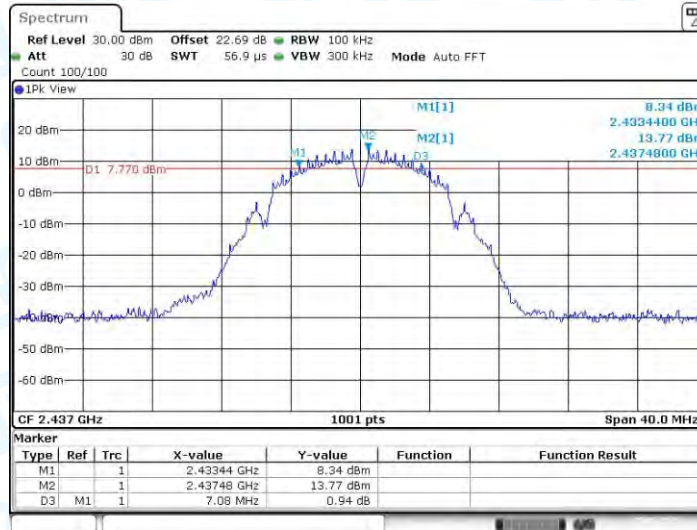


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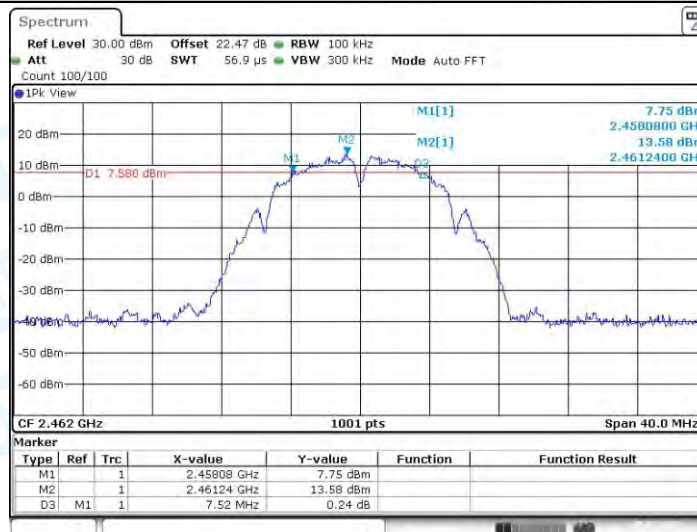
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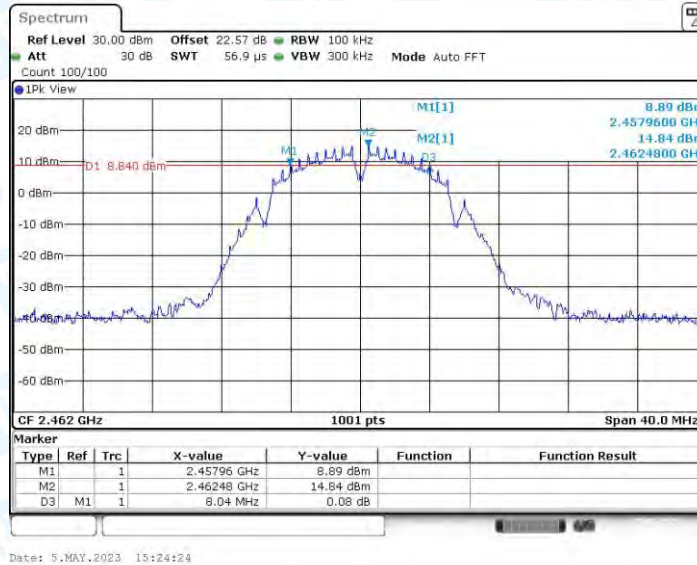
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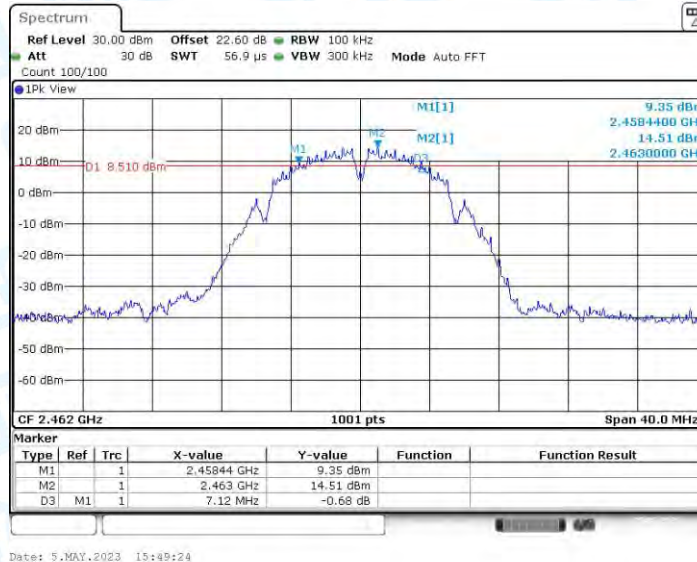


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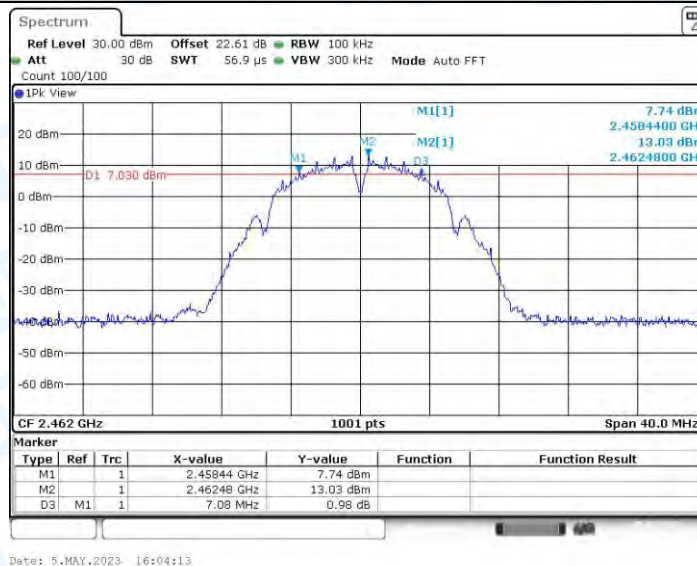
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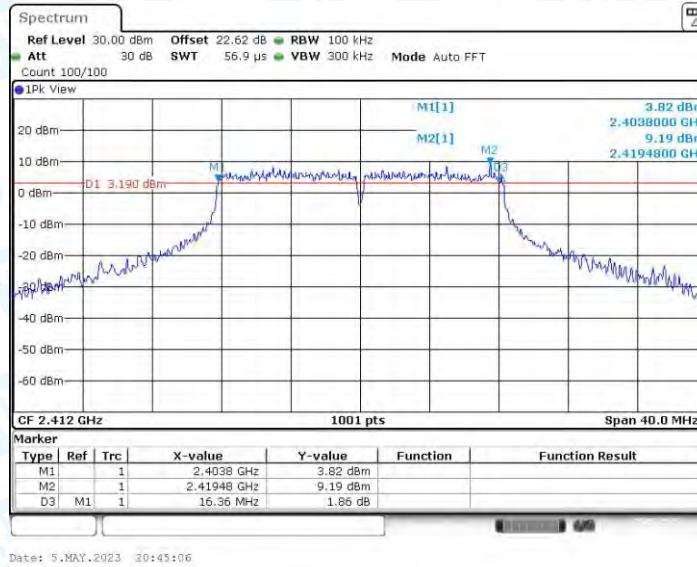
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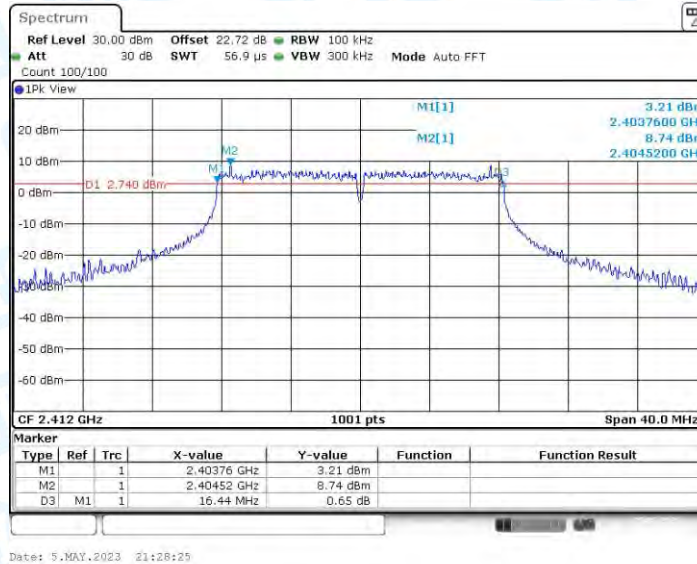
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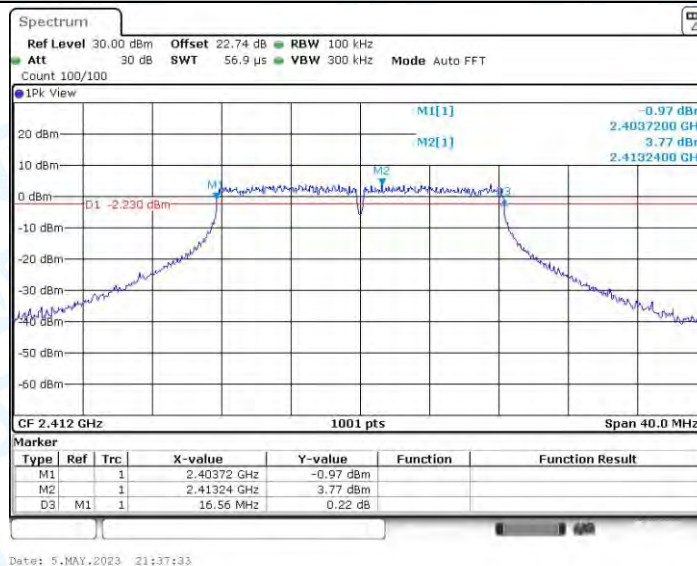
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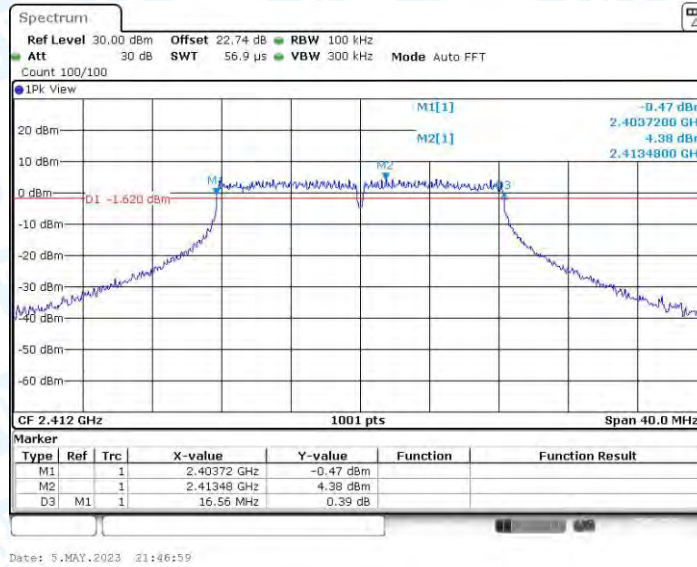
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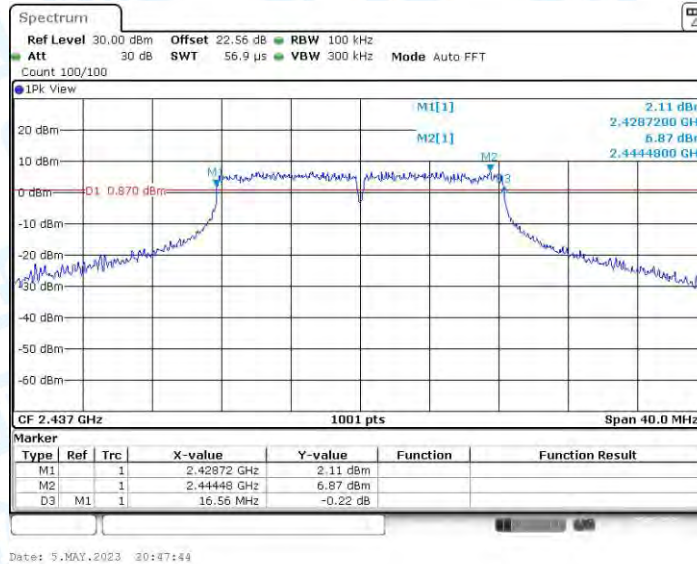
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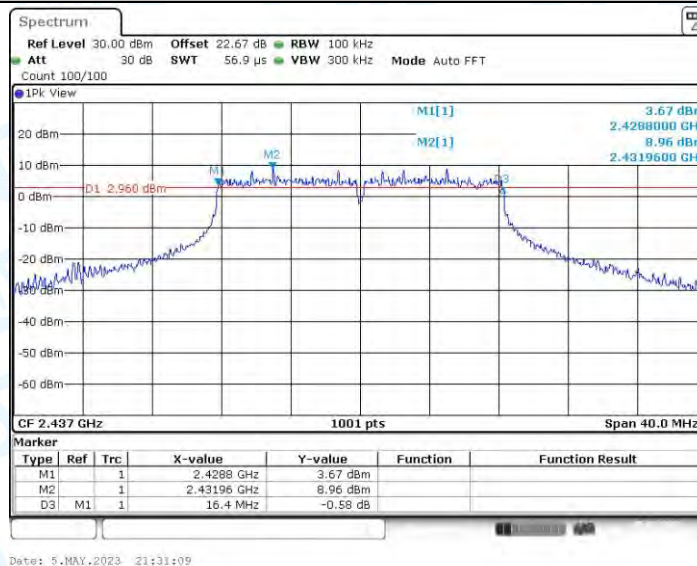
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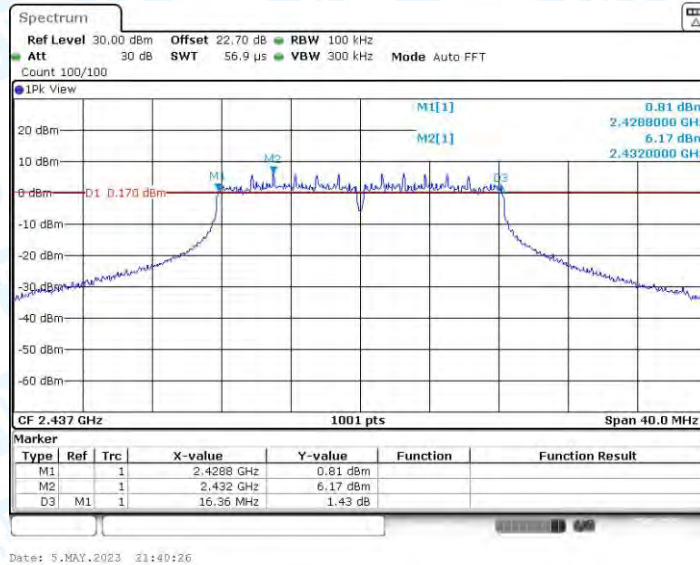
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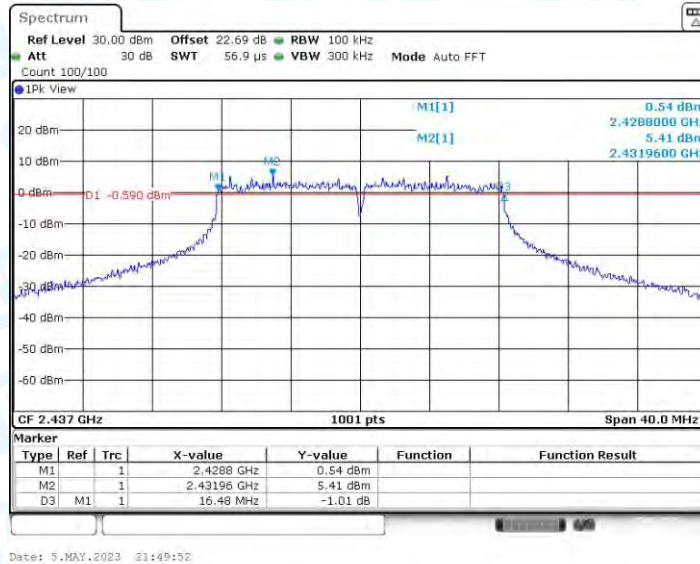
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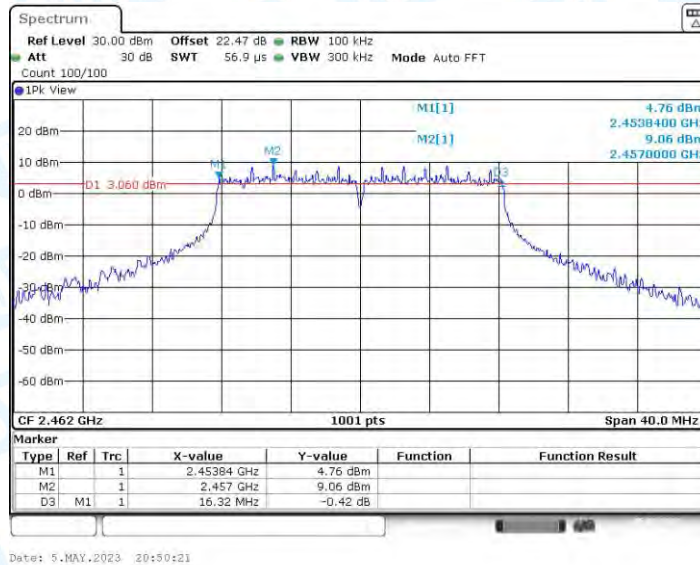
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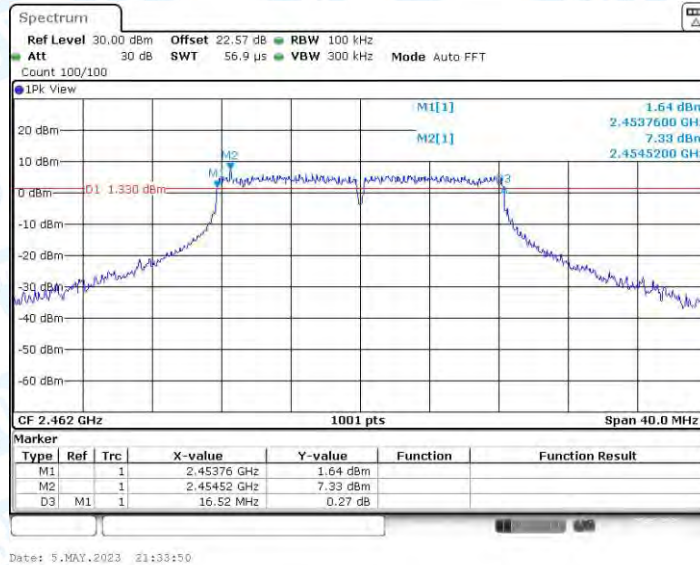
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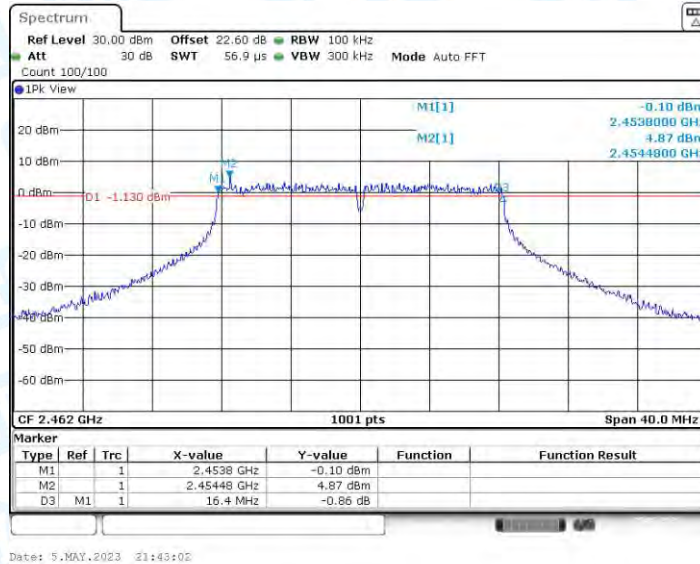
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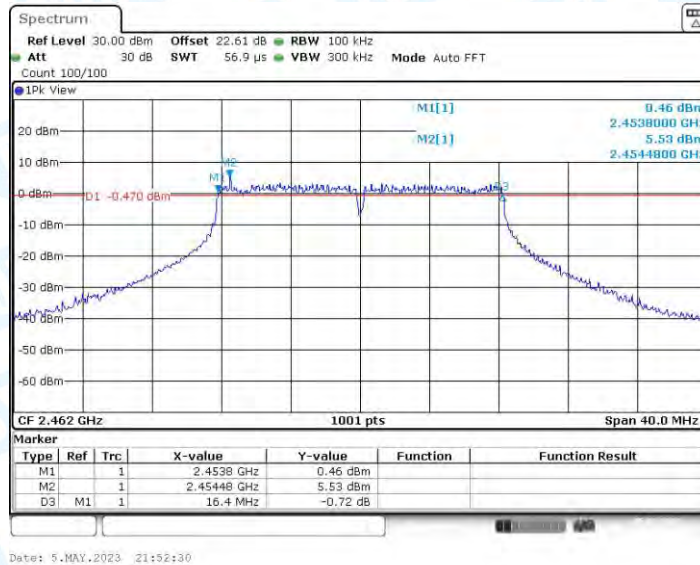
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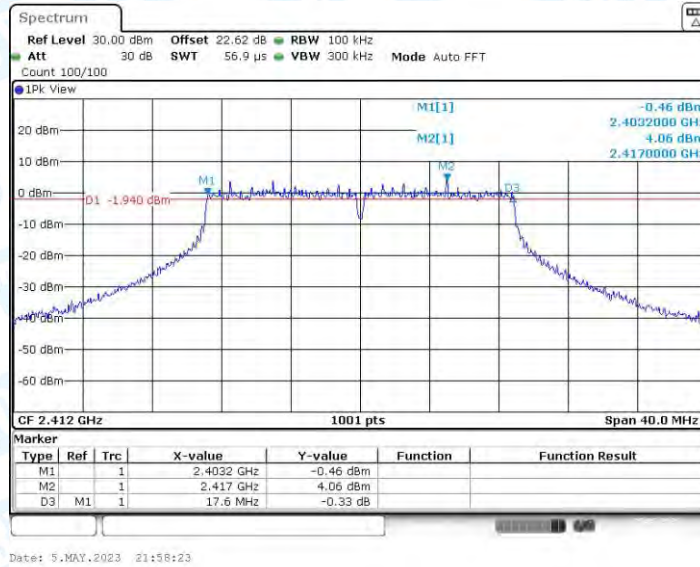
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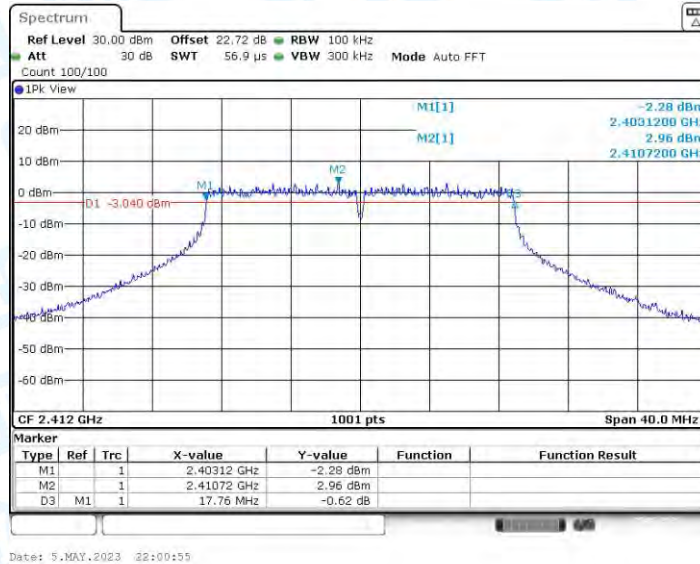
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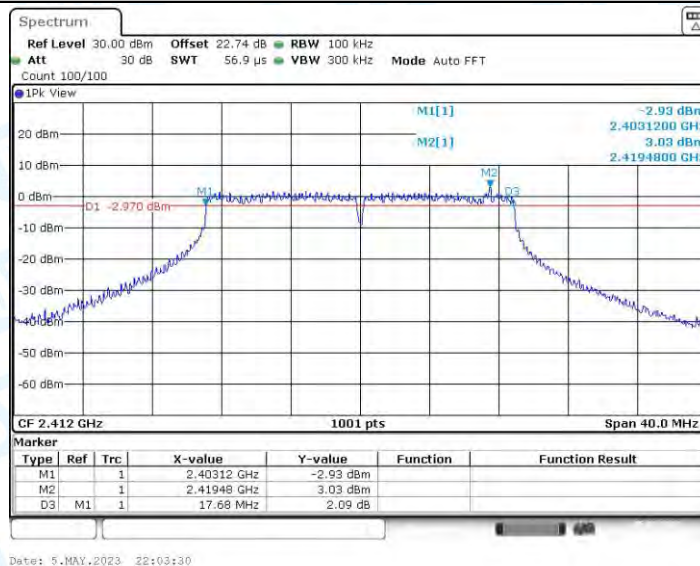
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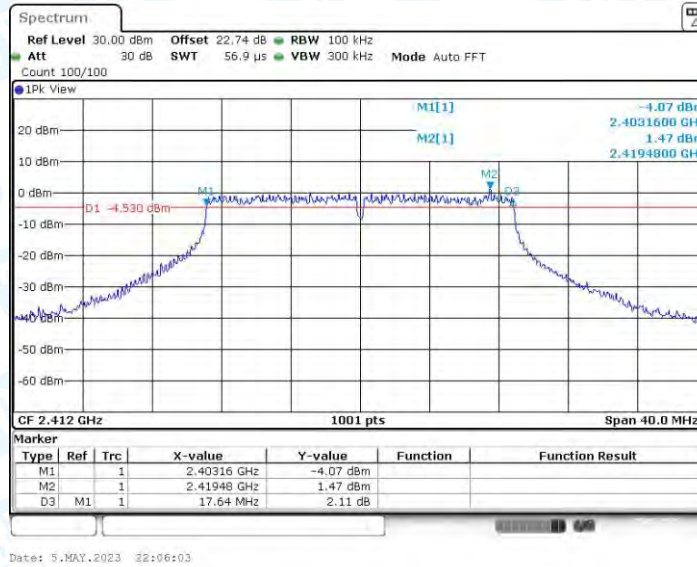
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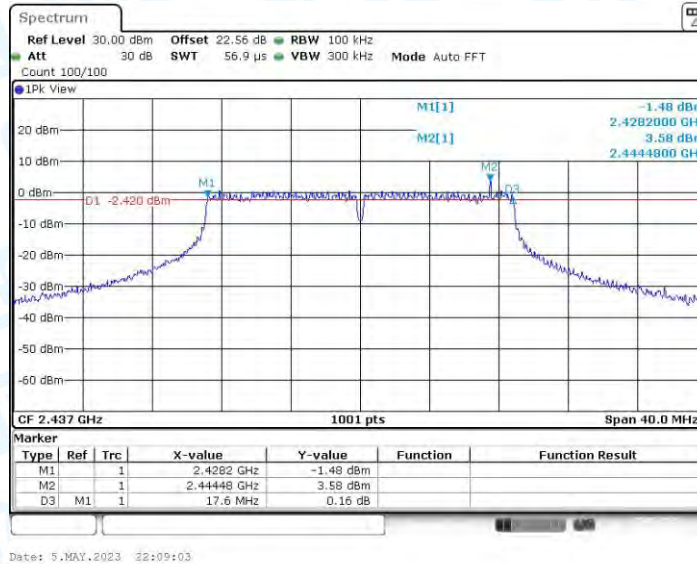
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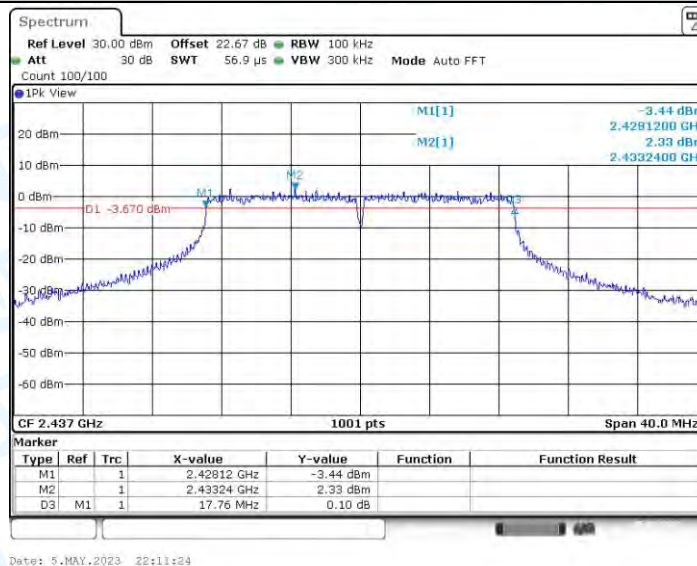
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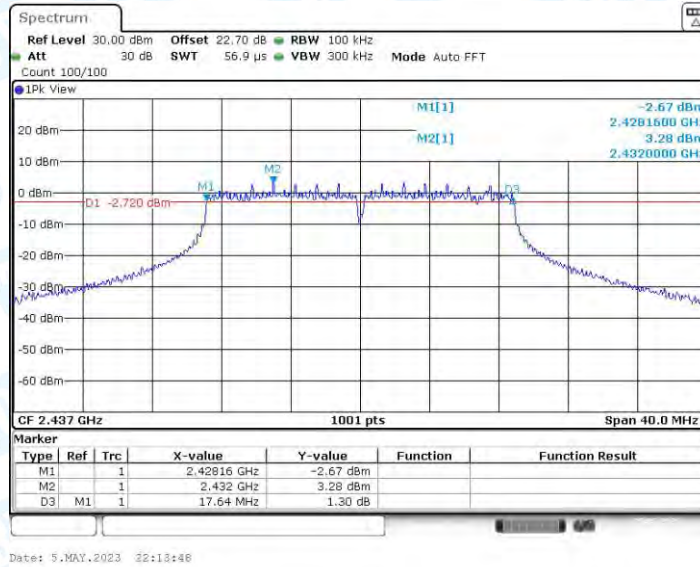
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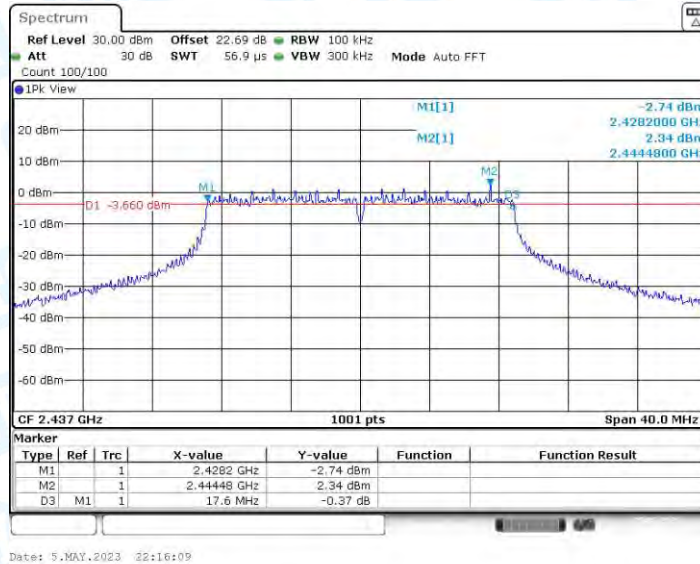
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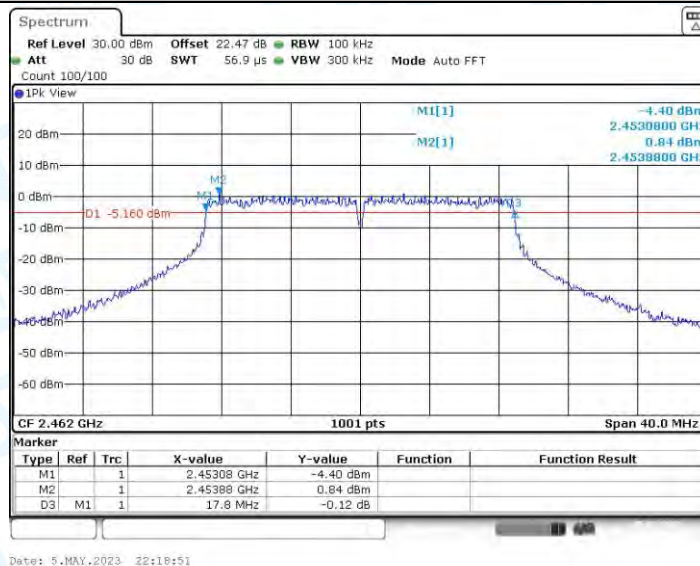
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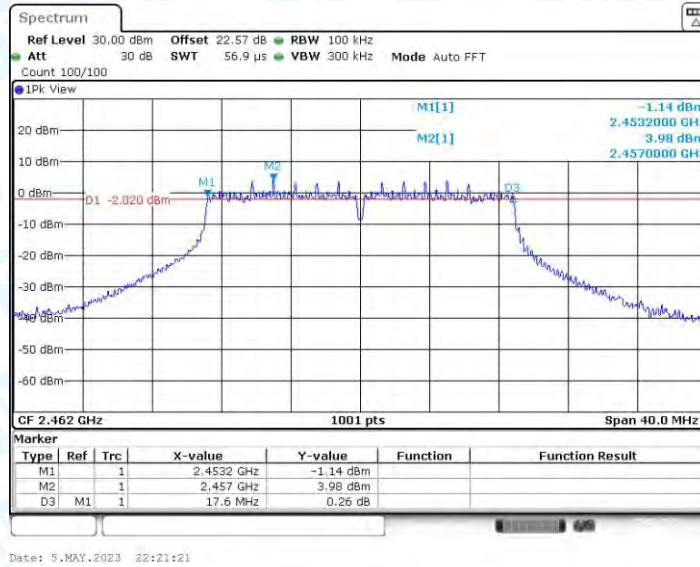
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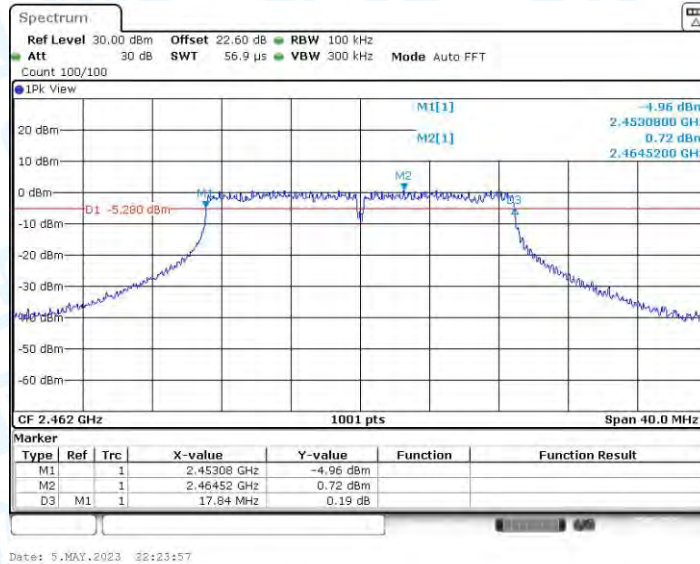
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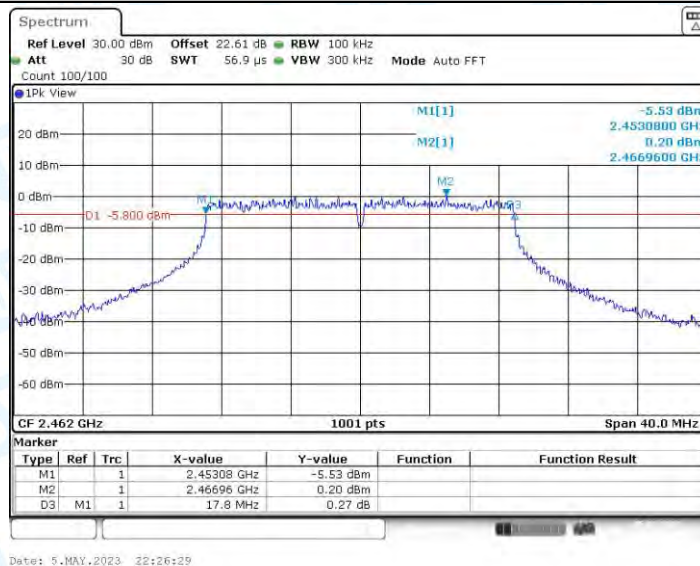
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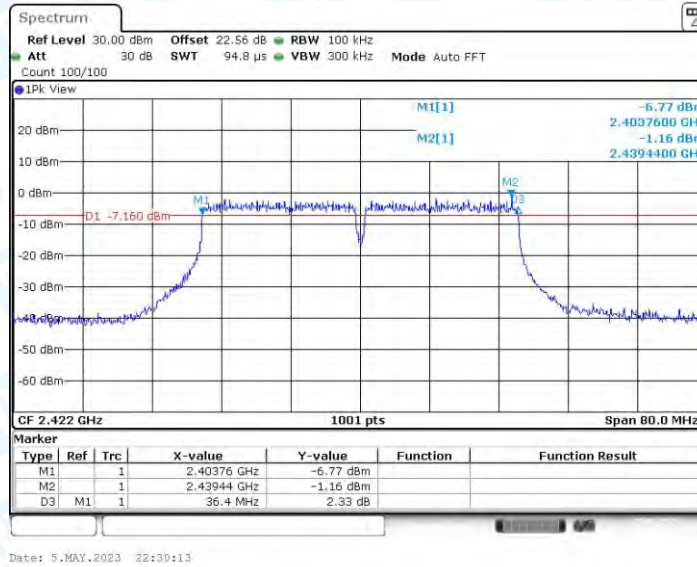
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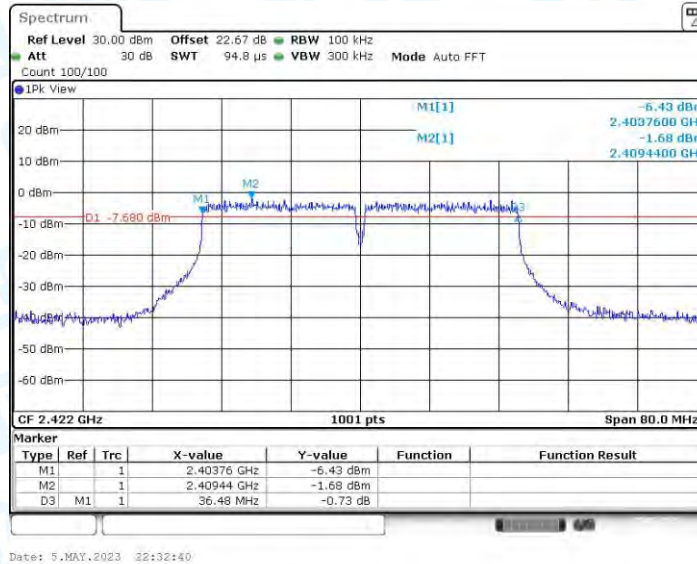
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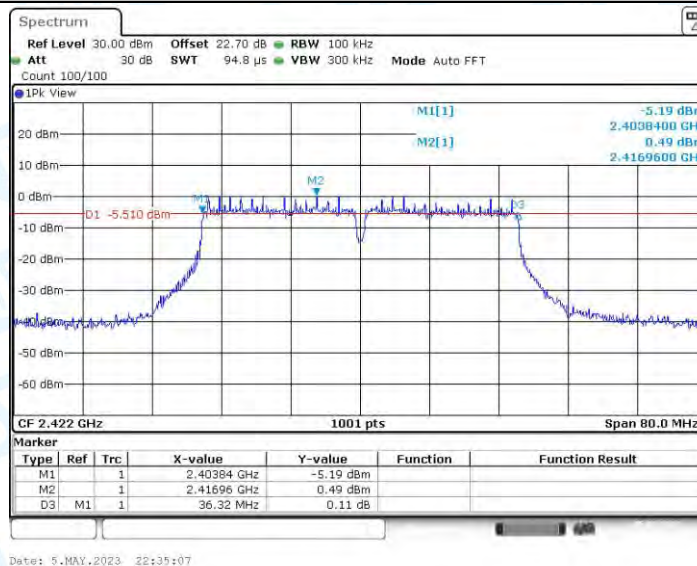
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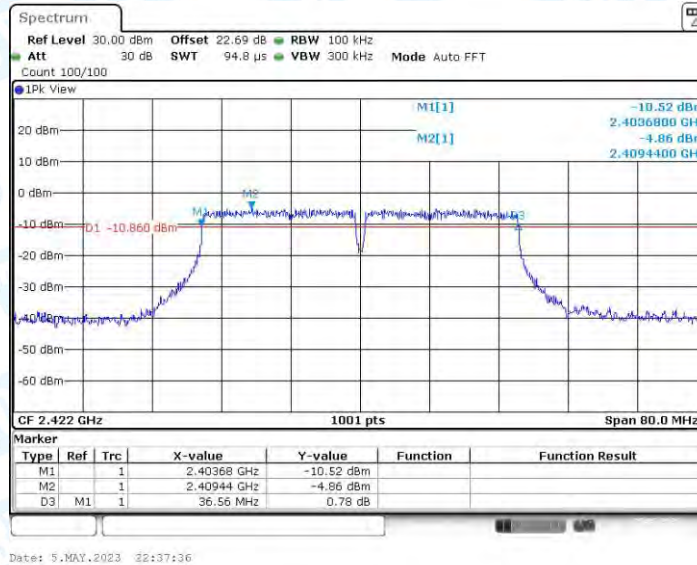
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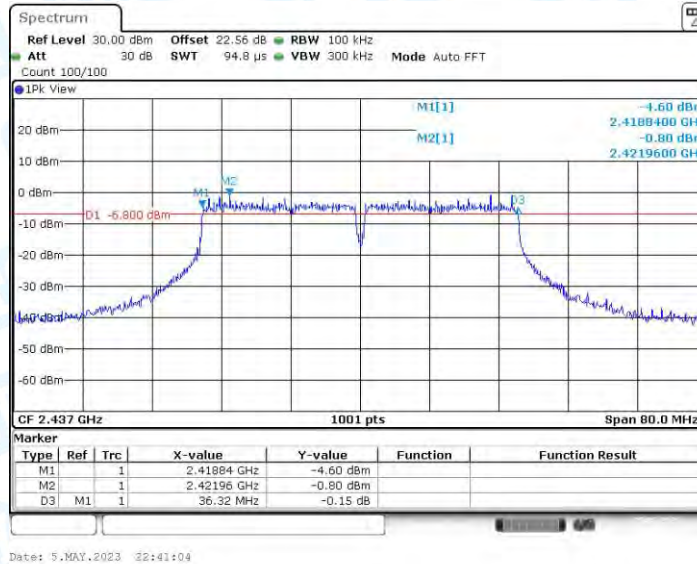
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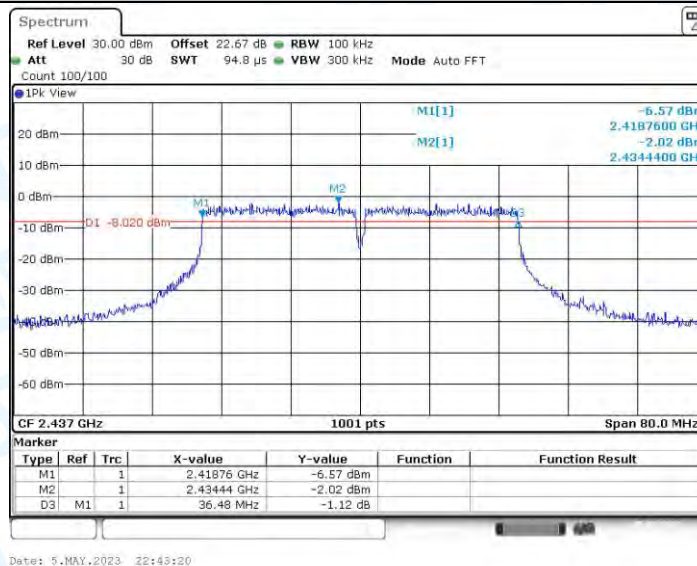
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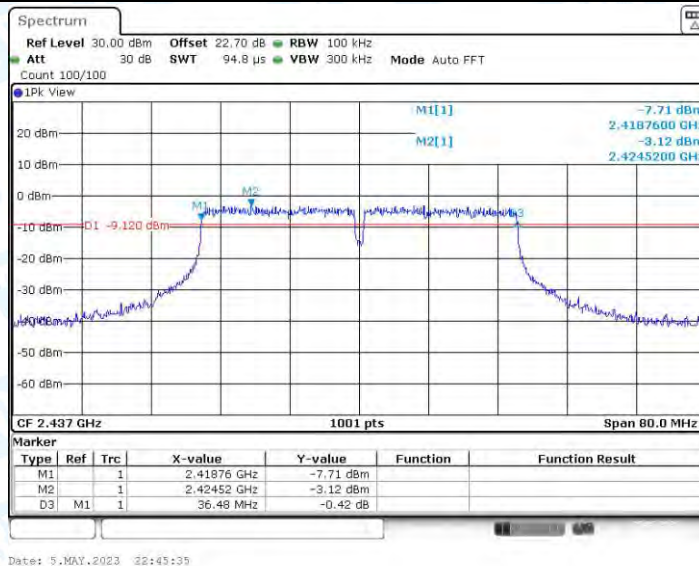
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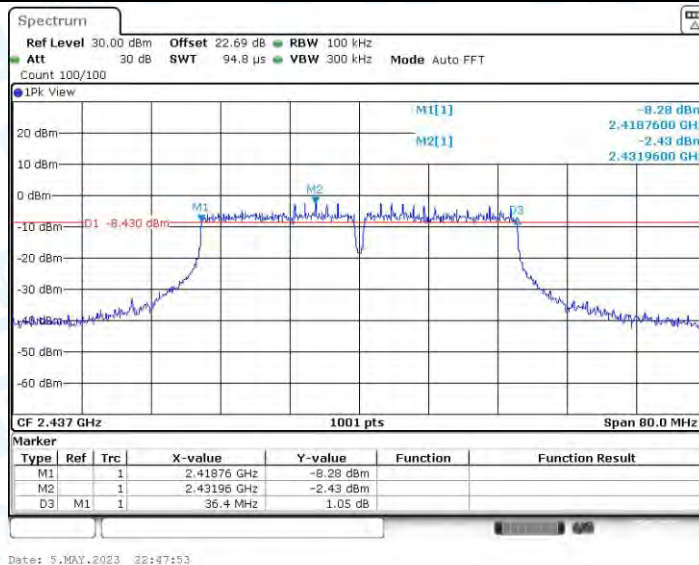
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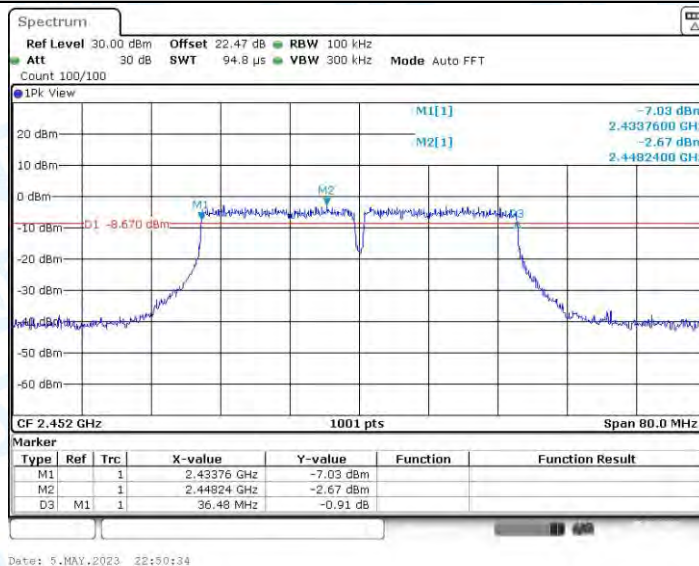
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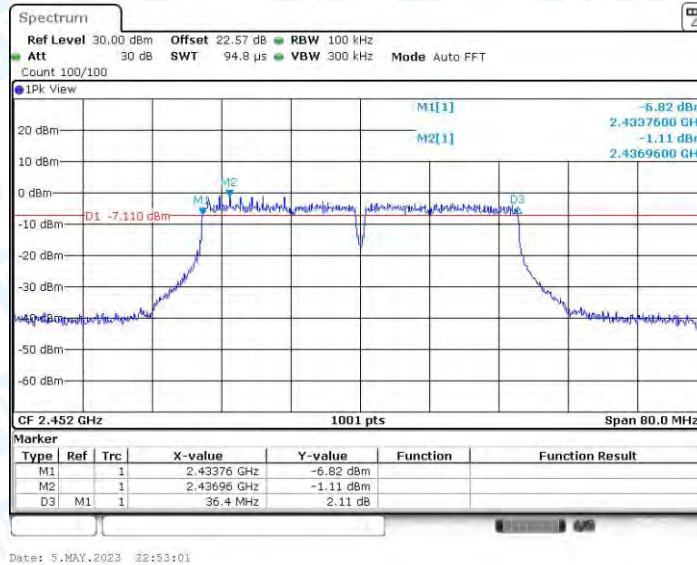
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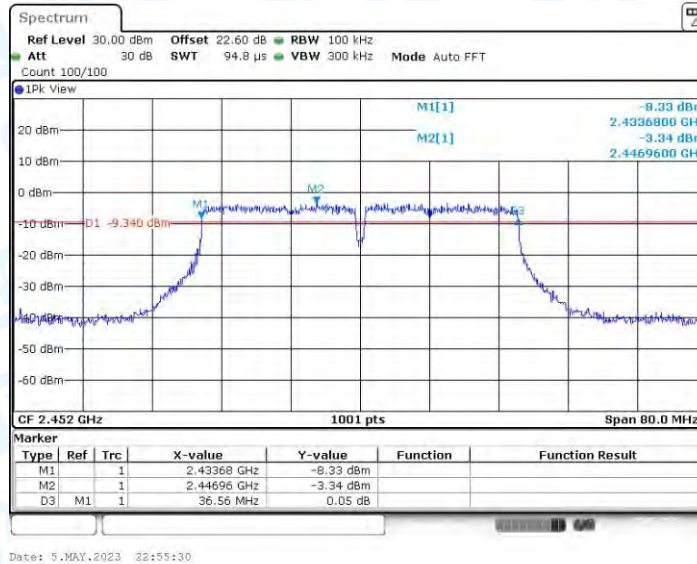
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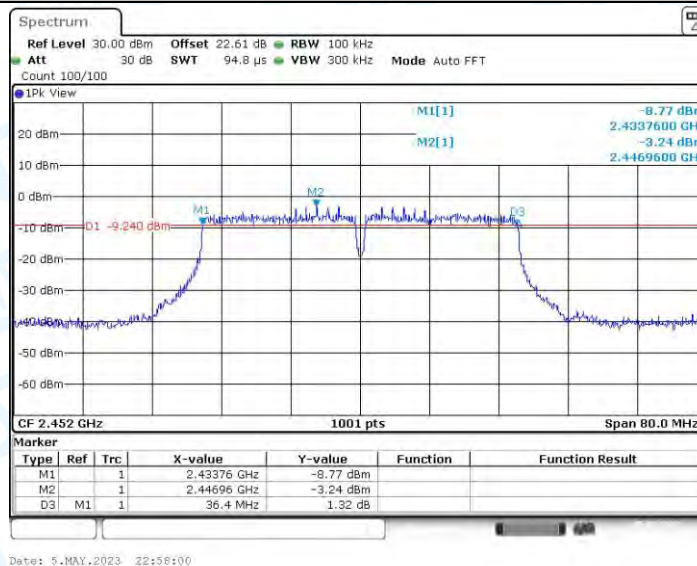
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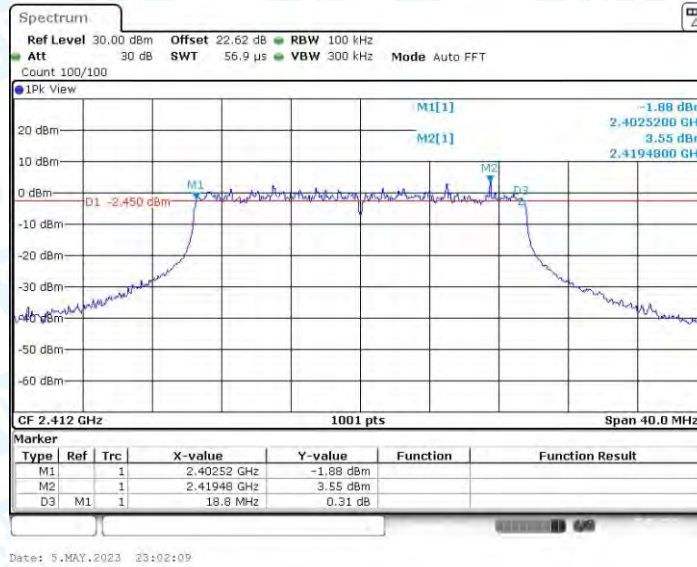
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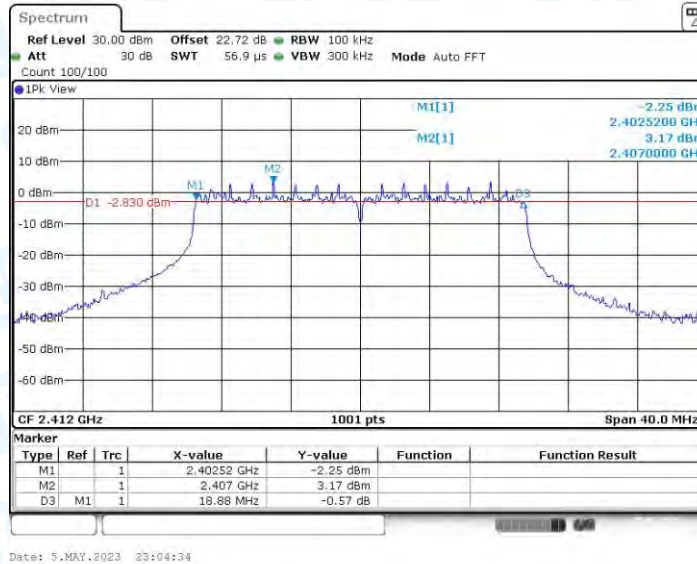
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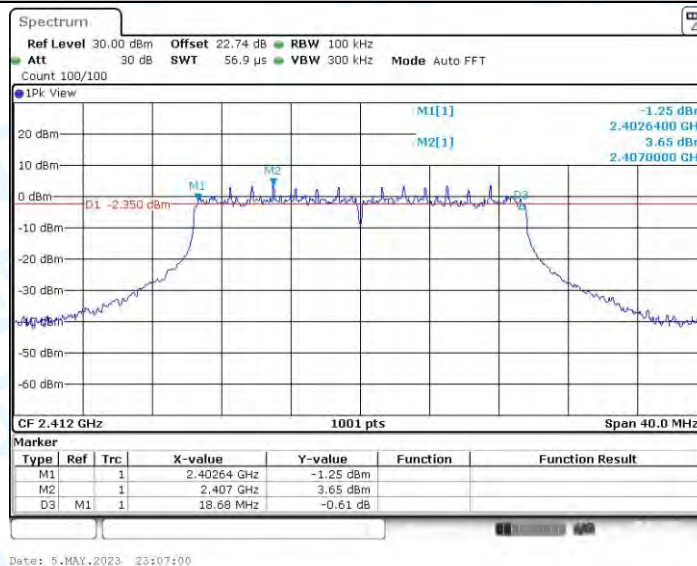
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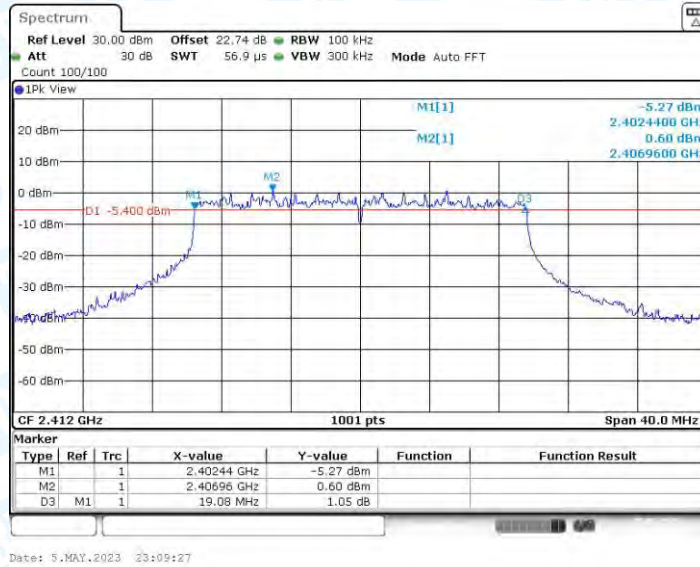
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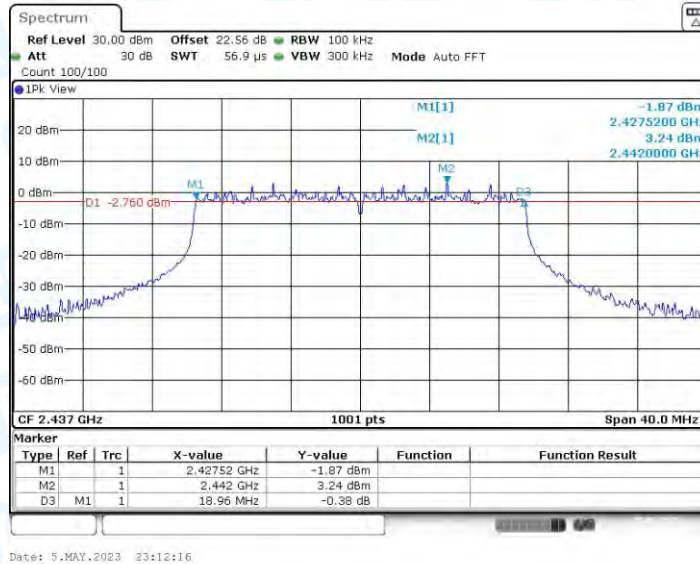
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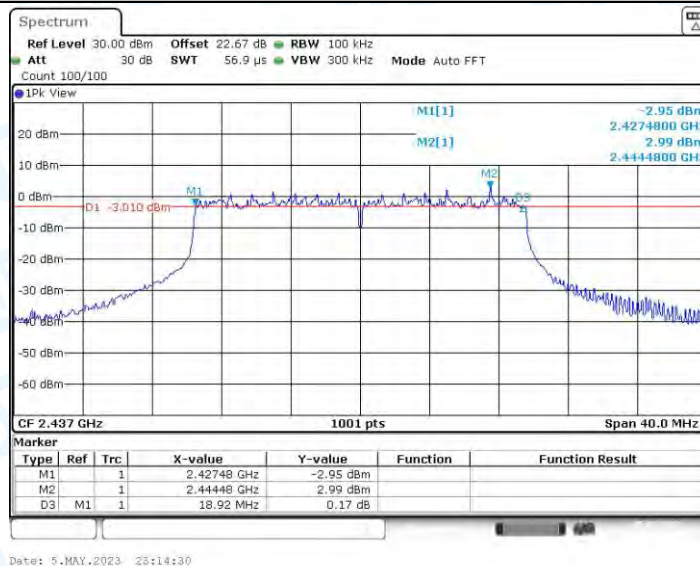
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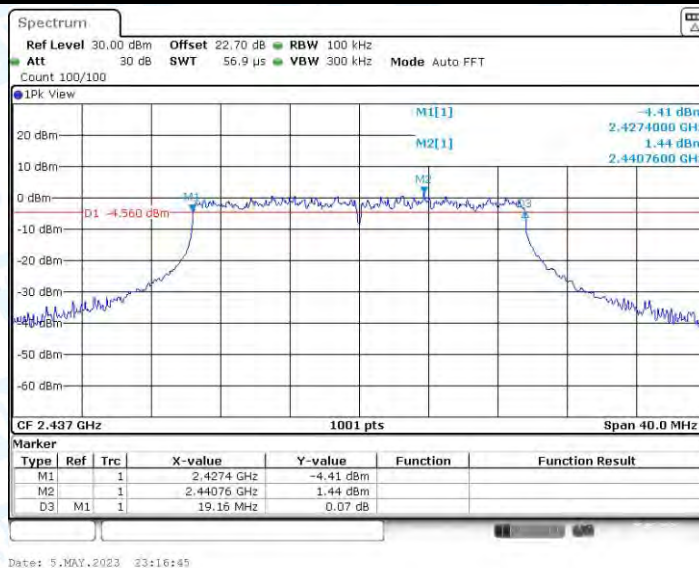
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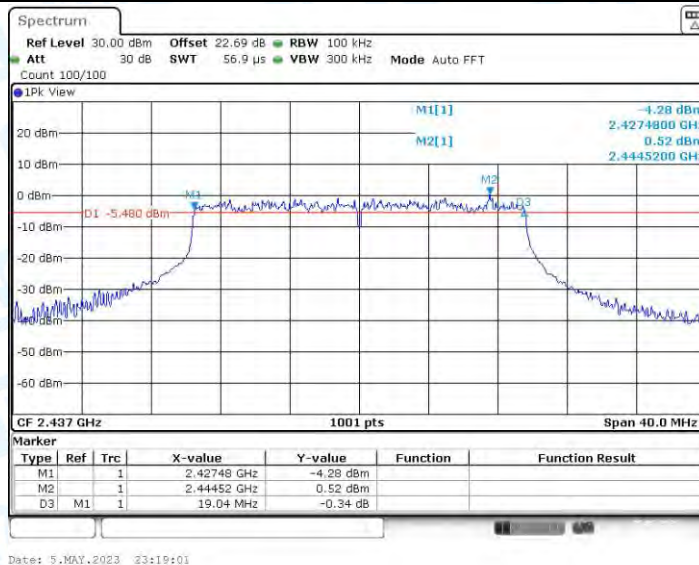
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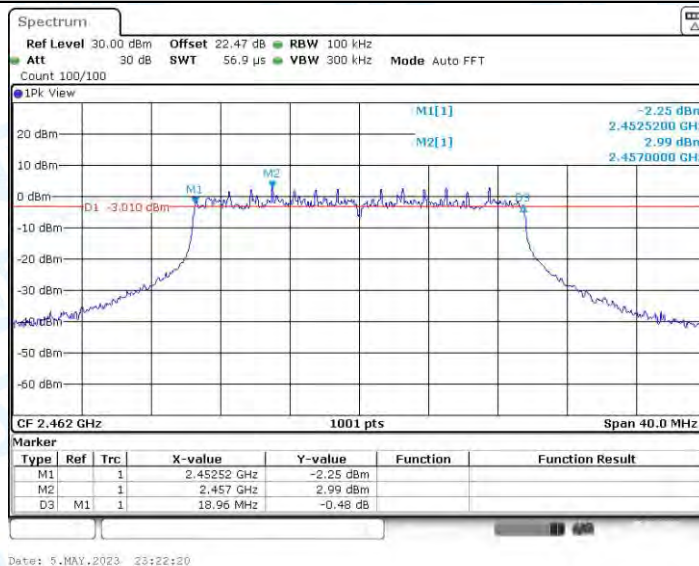
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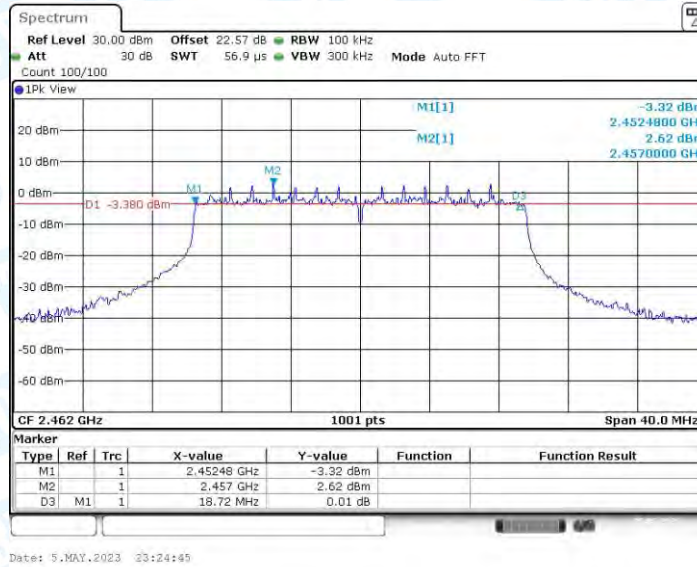
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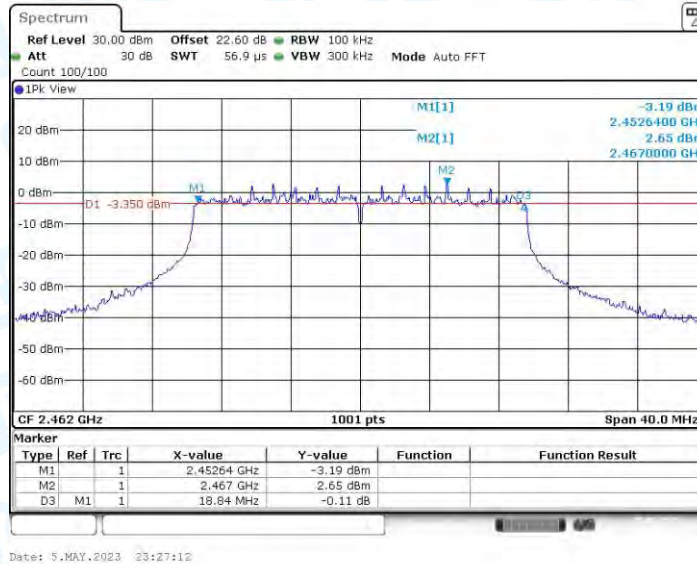
11AX20MIMO_Ant1_2462



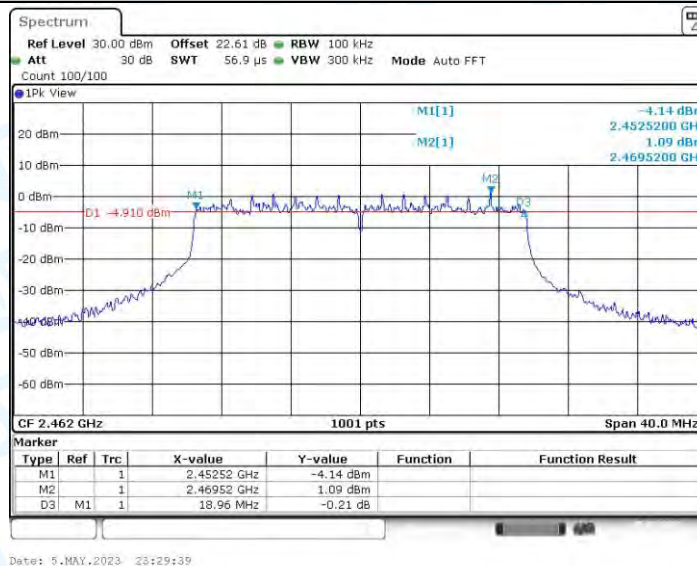
11AX20MIMO_Ant2_2462



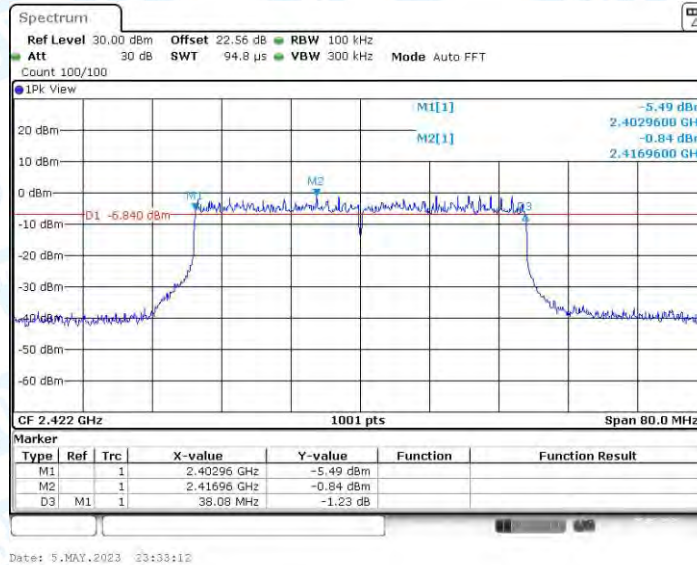
11AX20MIMO_Ant3_2462



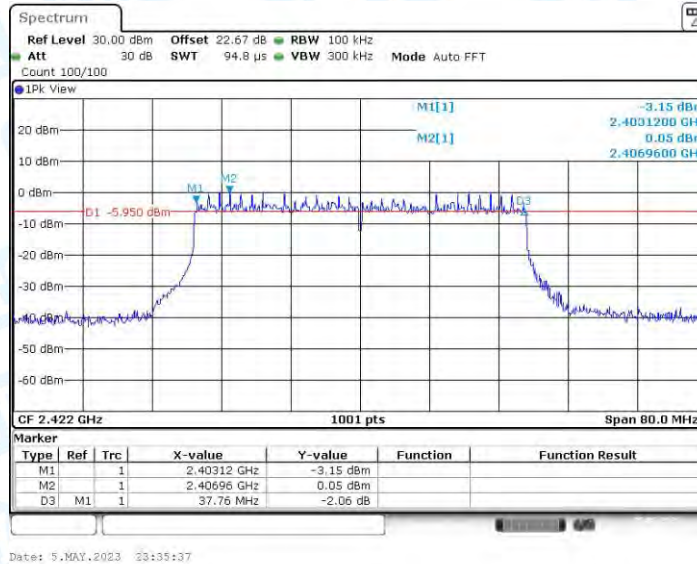
11AX20MIMO_Ant4_2462



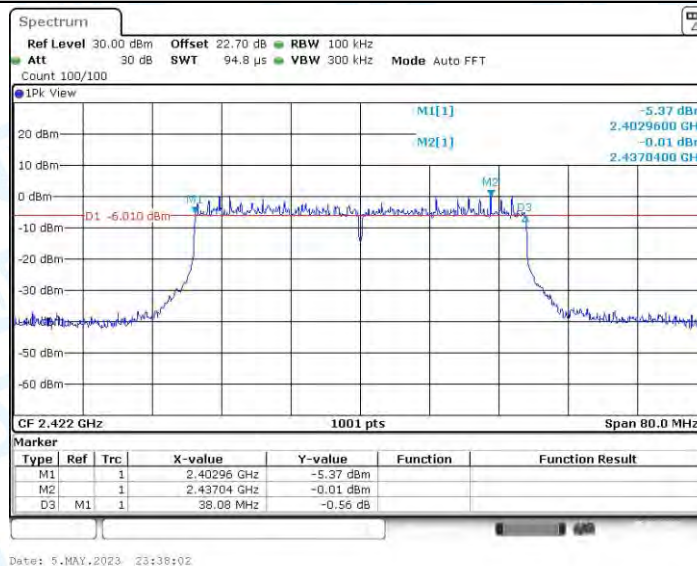
11AX40MIMO_Ant1_2422



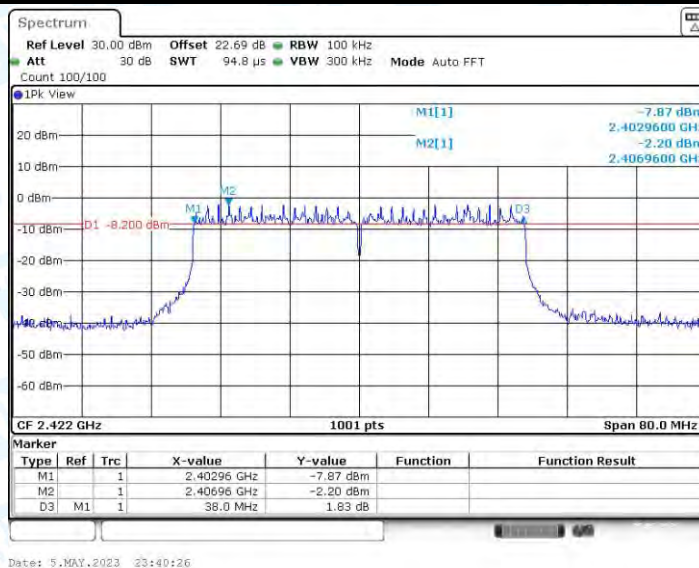
11AX40MIMO_Ant2_2422



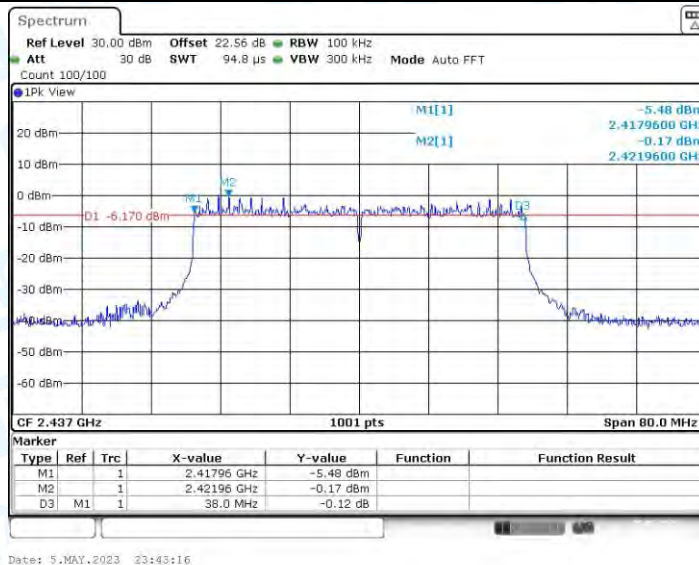
11AX40MIMO_Ant3_2422



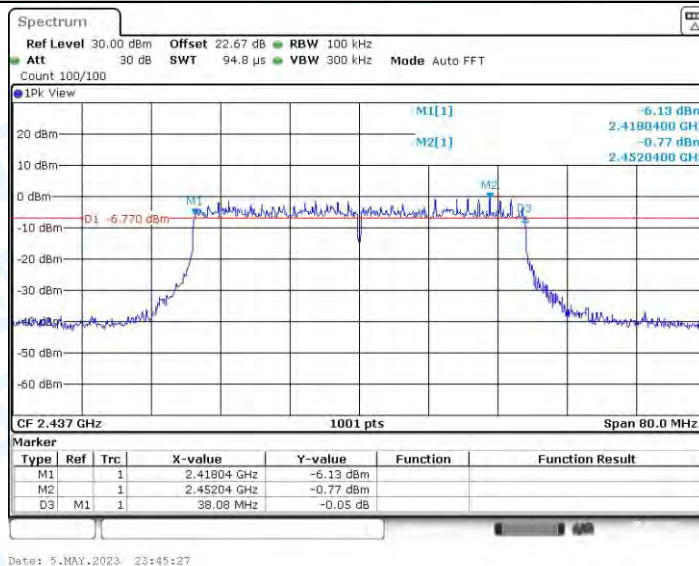
11AX40MIMO_Ant4_2422



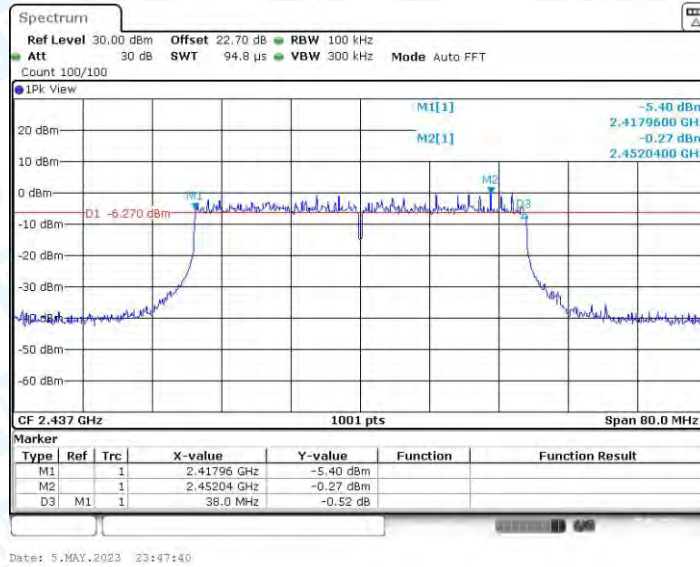
11AX40MIMO_Ant1_2437



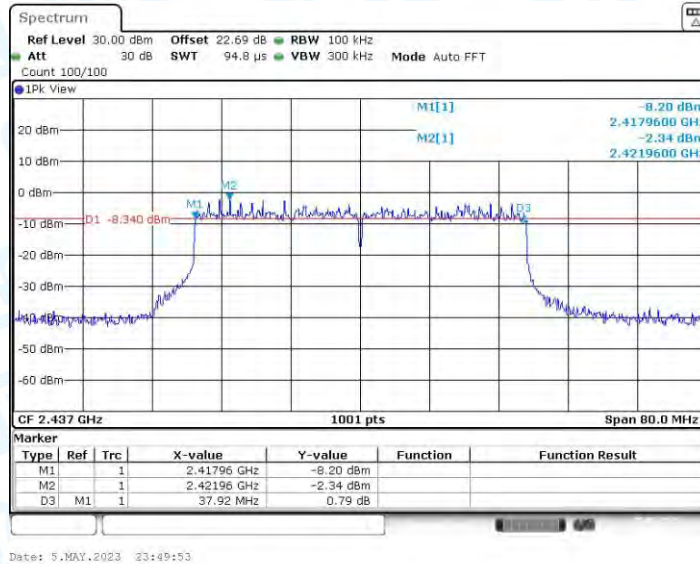
11AX40MIMO_Ant2_2437



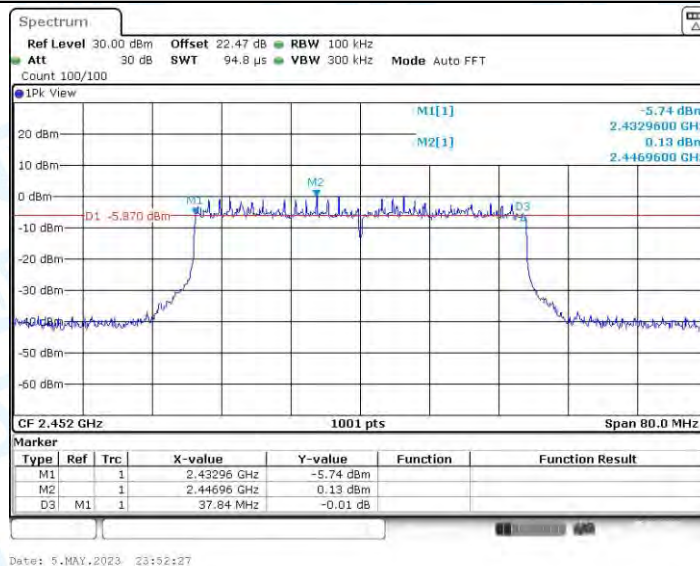
11AX40MIMO_Ant3_2437



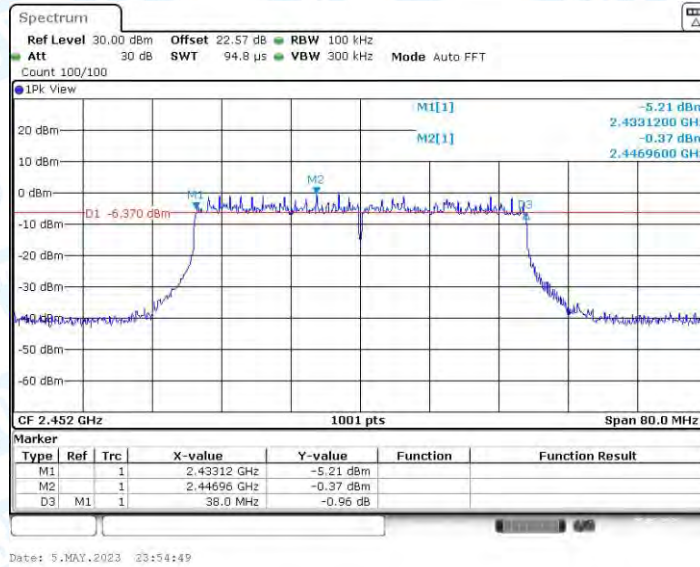
11AX40MIMO_Ant4_2437



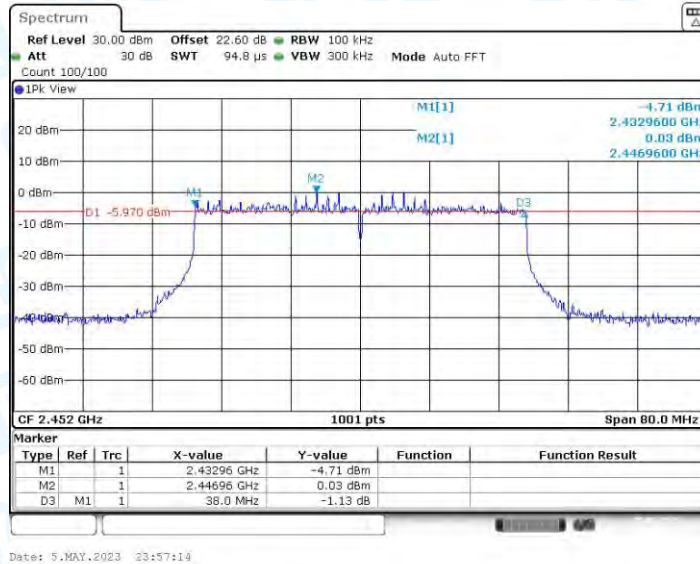
11AX40MIMO_Ant1_2452



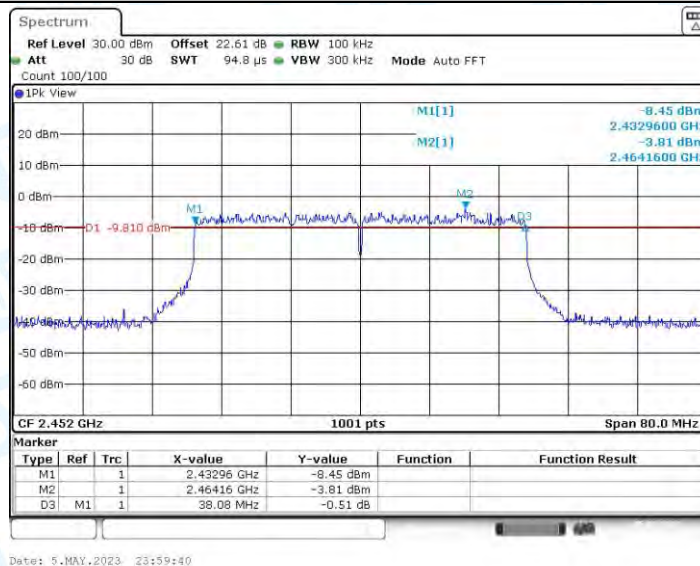
11AX40MIMO_Ant2_2452



11AX40MIMO_Ant3_2452



11AX40MIMO_Ant4_2452



2. Maximum conducted output power

2.1. Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	25.16	≤30.00	PASS
	Ant2	2412	27.27	≤30.00	PASS
	Ant3	2412	26.85	≤30.00	PASS
	Ant4	2412	27.19	≤30.00	PASS
	Ant1	2437	25.02	≤30.00	PASS
	Ant2	2437	27.02	≤30.00	PASS
	Ant3	2437	26.55	≤30.00	PASS
	Ant4	2437	26.91	≤30.00	PASS
	Ant1	2462	24.40	≤30.00	PASS
	Ant2	2462	25.40	≤30.00	PASS
	Ant3	2462	25.87	≤30.00	PASS
	Ant4	2462	26.58	≤30.00	PASS
11G	Ant1	2412	21.74	≤30.00	PASS
	Ant2	2412	21.64	≤30.00	PASS
	Ant3	2412	21.16	≤30.00	PASS
	Ant4	2412	21.60	≤30.00	PASS
	Ant1	2437	21.30	≤30.00	PASS
	Ant2	2437	21.04	≤30.00	PASS
	Ant3	2437	20.73	≤30.00	PASS
	Ant4	2437	21.47	≤30.00	PASS
	Ant1	2462	21.27	≤30.00	PASS
	Ant2	2462	20.95	≤30.00	PASS
	Ant3	2462	20.48	≤30.00	PASS
	Ant4	2462	21.15	≤30.00	PASS
11N20MIMO	Ant1	2412	17.43	≤30.00	PASS
	Ant2	2412	17.46	≤30.00	PASS
	Ant3	2412	19.03	≤30.00	PASS
	Ant4	2412	17.83	≤30.00	PASS
	total	2412	24.01	≤25.80	PASS
	Ant1	2437	16.94	≤30.00	PASS
	Ant2	2437	16.99	≤30.00	PASS
	Ant3	2437	18.55	≤30.00	PASS
	Ant4	2437	17.57	≤30.00	PASS
	total	2437	23.58	≤25.80	PASS
	Ant1	2462	16.60	≤30.00	PASS
	Ant2	2462	16.58	≤30.00	PASS
	Ant3	2462	18.40	≤30.00	PASS
	Ant4	2462	17.22	≤30.00	PASS
	total	2462	23.29	≤25.80	PASS
11N40MIMO	Ant1	2422	16.65	≤30.00	PASS
	Ant2	2422	16.05	≤30.00	PASS
	Ant3	2422	17.80	≤30.00	PASS
	Ant4	2422	16.17	≤30.00	PASS
	total	2422	22.75	≤25.80	PASS
	Ant1	2437	16.52	≤30.00	PASS
	Ant2	2437	16.11	≤30.00	PASS
	Ant3	2437	17.58	≤30.00	PASS
	Ant4	2437	16.04	≤30.00	PASS
	total	2437	22.63	≤25.80	PASS
	Ant1	2452	16.25	≤30.00	PASS
	Ant2	2452	15.89	≤30.00	PASS
	Ant3	2452	17.33	≤30.00	PASS
	Ant4	2452	15.82	≤30.00	PASS
	total	2452	22.39	≤25.80	PASS
11AX20MIMO	Ant1	2412	17.01	≤30.00	PASS
	Ant2	2412	16.04	≤30.00	PASS
	Ant3	2412	18.27	≤30.00	PASS

	Ant4	2412	16.90	≤30.00	PASS
	total	2412	23.15	≤25.80	PASS
	Ant1	2437	16.81	≤30.00	PASS
	Ant2	2437	15.99	≤30.00	PASS
	Ant3	2437	17.91	≤30.00	PASS
	Ant4	2437	16.66	≤30.00	PASS
	total	2437	22.92	≤25.80	PASS
	Ant1	2462	16.54	≤30.00	PASS
	Ant2	2462	15.59	≤30.00	PASS
	Ant3	2462	17.50	≤30.00	PASS
	Ant4	2462	16.34	≤30.00	PASS
	total	2462	22.57	≤25.80	PASS
11AX40MIMO	Ant1	2422	16.91	≤30.00	PASS
	Ant2	2422	16.30	≤30.00	PASS
	Ant3	2422	18.24	≤30.00	PASS
	Ant4	2422	16.41	≤30.00	PASS
	total	2422	23.06	≤25.80	PASS
	Ant1	2437	16.75	≤30.00	PASS
	Ant2	2437	16.41	≤30.00	PASS
	Ant3	2437	18.01	≤30.00	PASS
	Ant4	2437	16.27	≤30.00	PASS
	total	2437	22.94	≤25.80	PASS
	Ant1	2452	16.58	≤30.00	PASS
	Ant2	2452	16.19	≤30.00	PASS
	Ant3	2452	17.78	≤30.00	PASS
	Ant4	2452	16.09	≤30.00	PASS
	total	2452	22.73	≤25.80	PASS

Note: The EUT incorporates a MIMO function. Physically, the EUT provides four antennas for transmitting and receiving.
When ANT.1(3.98dBi), ANT. 2(4.35dBi), ANT.3(4.16dBi) and ANT. 4(4.24dBi) transmitting simultaneously, so the Directional Gain=10.20dBi > 6dBi.
So Pout = Plimit-(G_{TX}-6)=(30-4.20)dBm =25.80dBm
Directional gain = 10* log[(10^{G1/20} + 10^{G2/20} +10^{G3/20} + 10^{G4/20})² / 4]

3. Maximum power spectral density

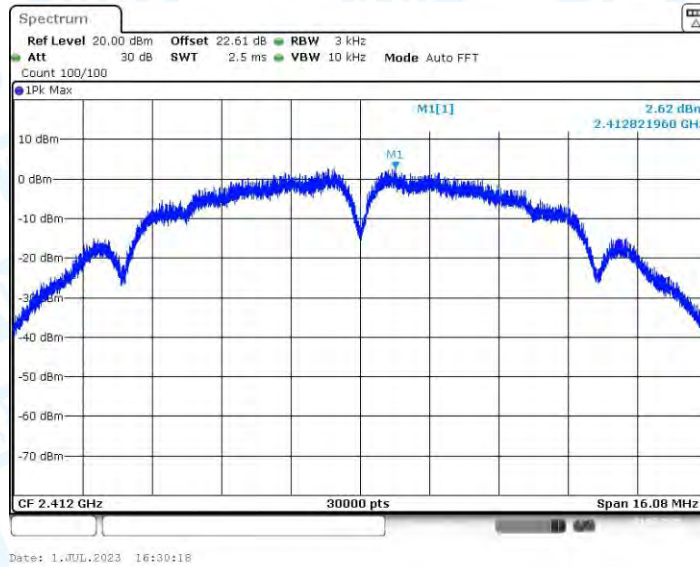
3.1. Test Result

TestMode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	2.62	≤8.00	PASS
	Ant2	2412	3.62	≤8.00	PASS
	Ant3	2412	4.36	≤8.00	PASS
	Ant4	2412	4.47	≤8.00	PASS
	Ant1	2437	2.57	≤8.00	PASS
	Ant2	2437	4.01	≤8.00	PASS
	Ant3	2437	3.57	≤8.00	PASS
	Ant4	2437	3.96	≤8.00	PASS
	Ant1	2462	1.76	≤8.00	PASS
	Ant2	2462	3.63	≤8.00	PASS
	Ant3	2462	4	≤8.00	PASS
	Ant4	2462	4.01	≤8.00	PASS
11G	Ant1	2412	-4.95	≤8.00	PASS
	Ant2	2412	-3.76	≤8.00	PASS
	Ant3	2412	-3.37	≤8.00	PASS
	Ant4	2412	-3.09	≤8.00	PASS
	Ant1	2437	-4.95	≤8.00	PASS
	Ant2	2437	-4.15	≤8.00	PASS
	Ant3	2437	-3.79	≤8.00	PASS
	Ant4	2437	-3.98	≤8.00	PASS
	Ant1	2462	-5.77	≤8.00	PASS
	Ant2	2462	-4.33	≤8.00	PASS
	Ant3	2462	-4.36	≤8.00	PASS
	Ant4	2462	-4.06	≤8.00	PASS
11N20MIMO	Ant1	2412	-8.38	≤8.00	PASS
	Ant2	2412	-7.42	≤8.00	PASS
	Ant3	2412	-7.14	≤8.00	PASS
	Ant4	2412	-7.59	≤8.00	PASS
	total	2412	-1.59	≤3.80	PASS
	Ant1	2437	-9.17	≤8.00	PASS
	Ant2	2437	-7.92	≤8.00	PASS
	Ant3	2437	-7.83	≤8.00	PASS
	Ant4	2437	-8.31	≤8.00	PASS
	total	2437	-2.26	≤3.80	PASS
	Ant1	2462	-8.95	≤8.00	PASS
	Ant2	2462	-8.25	≤8.00	PASS
	Ant3	2462	-7.87	≤8.00	PASS
	Ant4	2462	-8.33	≤8.00	PASS
	total	2462	-2.31	≤3.80	PASS
11N40MIMO	Ant1	2422	-11.69	≤8.00	PASS
	Ant2	2422	-9.49	≤8.00	PASS
	Ant3	2422	-8.61	≤8.00	PASS
	Ant4	2422	-8.47	≤8.00	PASS
	total	2422	-3.37	≤3.80	PASS
	Ant1	2437	-13.1	≤8.00	PASS
	Ant2	2437	-12.16	≤8.00	PASS
	Ant3	2437	-11.9	≤8.00	PASS
	Ant4	2437	-12.05	≤8.00	PASS
	total	2437	-6.26	≤3.80	PASS
	Ant1	2452	-11.83	≤8.00	PASS
	Ant2	2452	-11.93	≤8.00	PASS
	Ant3	2452	-11.69	≤8.00	PASS

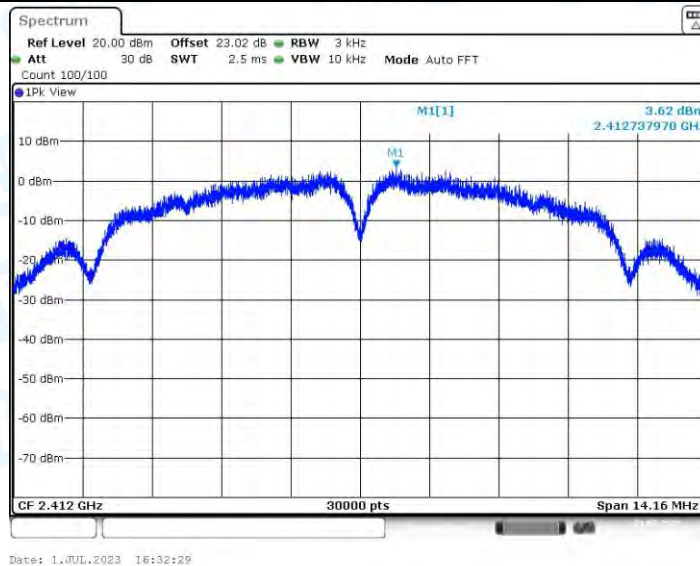
	Ant4	2452	-11.97	≤8.00	PASS
	total	2452	-5.83	≤3.80	PASS
11AX20MIMO	Ant1	2412	-10.02	≤8.00	PASS
	Ant2	2412	-8.21	≤8.00	PASS
	Ant3	2412	-8.11	≤8.00	PASS
	Ant4	2412	-8.49	≤8.00	PASS
	total	2412	-2.62	≤3.80	PASS
	Ant1	2437	-10.15	≤8.00	PASS
	Ant2	2437	-8.85	≤8.00	PASS
	Ant3	2437	-8.66	≤8.00	PASS
	Ant4	2437	-9.39	≤8.00	PASS
	total	2437	-3.20	≤3.80	PASS
	Ant1	2462	-10.49	≤8.00	PASS
	Ant2	2462	-9.18	≤8.00	PASS
	Ant3	2462	-8.88	≤8.00	PASS
	Ant4	2462	-9.63	≤8.00	PASS
	total	2462	-3.48	≤3.80	PASS
11AX40MIMO	Ant1	2422	-12.22	≤8.00	PASS
	Ant2	2422	-10.77	≤8.00	PASS
	Ant3	2422	-9.66	≤8.00	PASS
	Ant4	2422	-10.27	≤8.00	PASS
	total	2422	-4.61	≤3.80	PASS
	Ant1	2437	-13.19	≤8.00	PASS
	Ant2	2437	-12.67	≤8.00	PASS
	Ant3	2437	-11.87	≤8.00	PASS
	Ant4	2437	-12.05	≤8.00	PASS
	total	2437	-6.39	≤3.80	PASS
	Ant1	2452	-13.53	≤8.00	PASS
	Ant2	2452	-12.18	≤8.00	PASS
	Ant3	2452	-11.86	≤8.00	PASS
	Ant4	2452	-11.94	≤8.00	PASS
	total	2452	-6.31	≤3.80	PASS
Note: The EUT incorporates a MIMO function. Physically, the EUT provides four antennas for transmitting and receiving. When ANT.1(3.98dBi), ANT. 2(4.35dBi), ANT.3(4.16dBi) and ANT. 4(4.24dBi) transmitting simultaneously, so the Directional Gain=10.20dBi > 6dBi. So $PSD_{out} = PSD_{limit} - (G_{TX} - 6) = (8 - 4.20) \text{dBm}/3\text{KHz} = 3.80 \text{dBm}/3\text{KHz}$ Directional gain = $10 * \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / 4]$					

3.2. Test Graphs

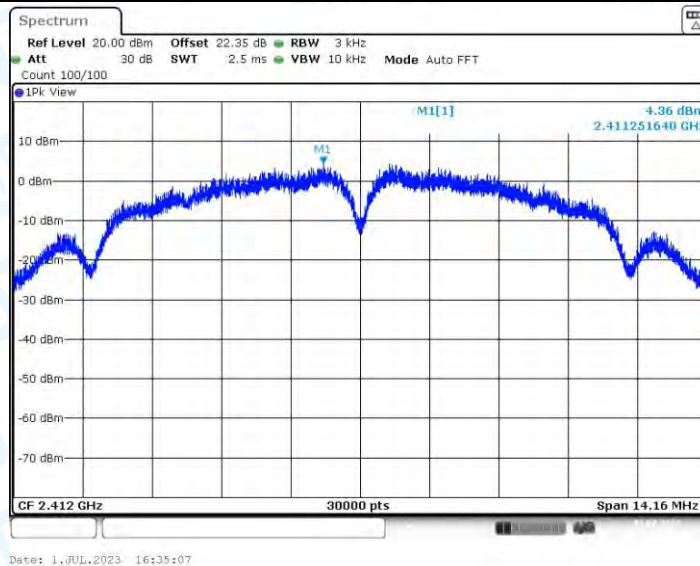
11B_Ant1_2412



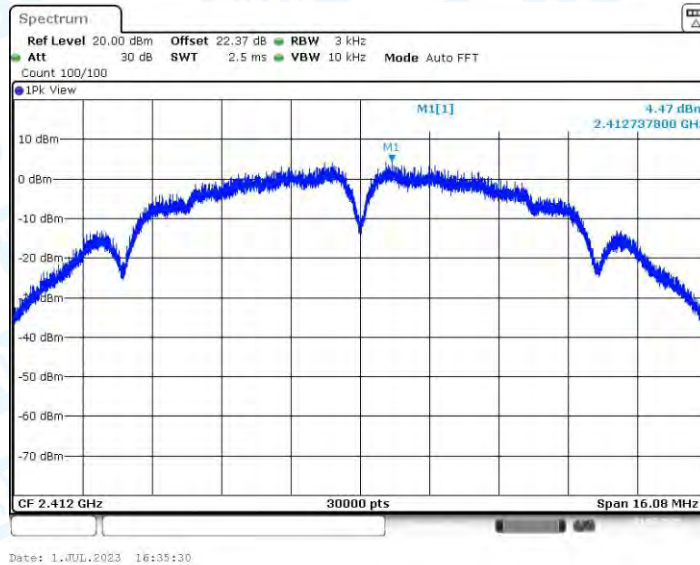
11B_Ant2_2412



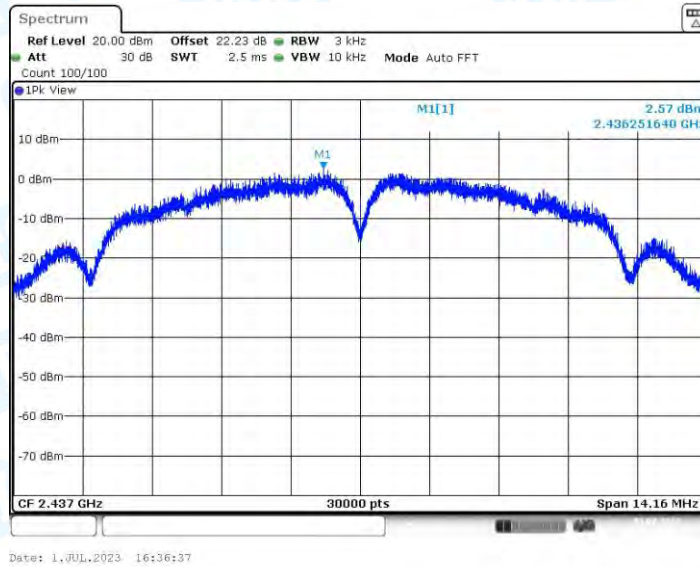
11B_Ant3_2412



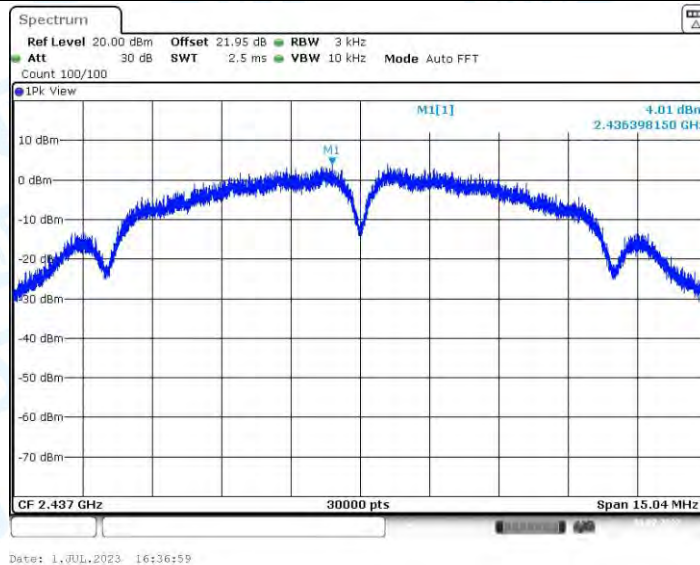
11B_Ant4_2412



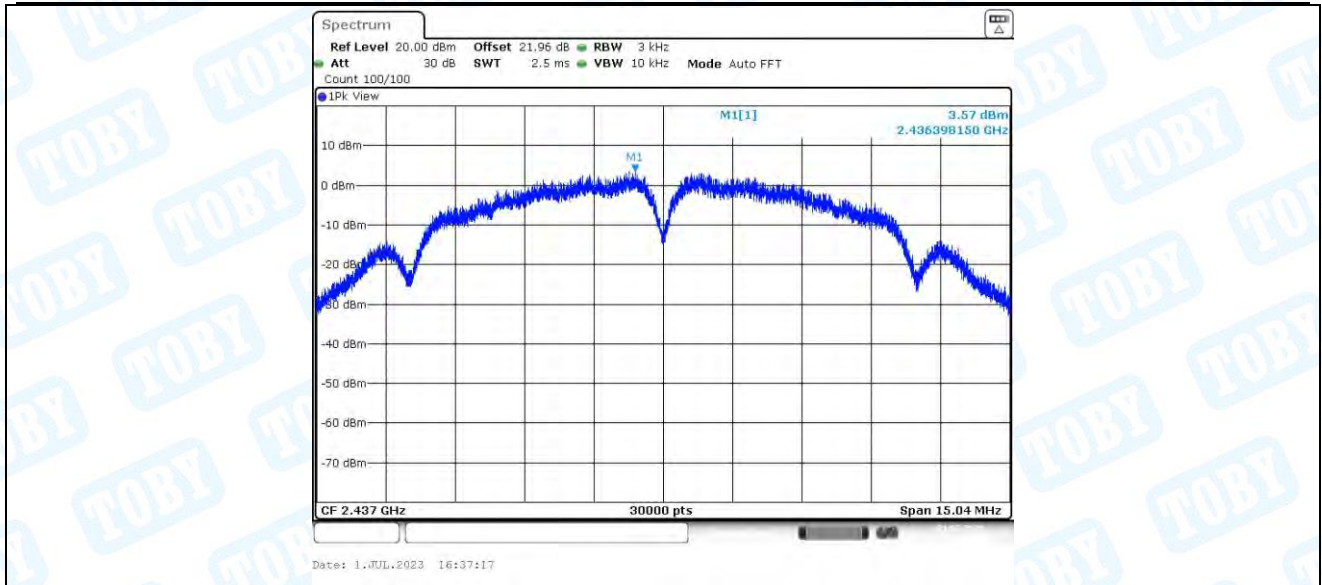
11B_Ant1_2437



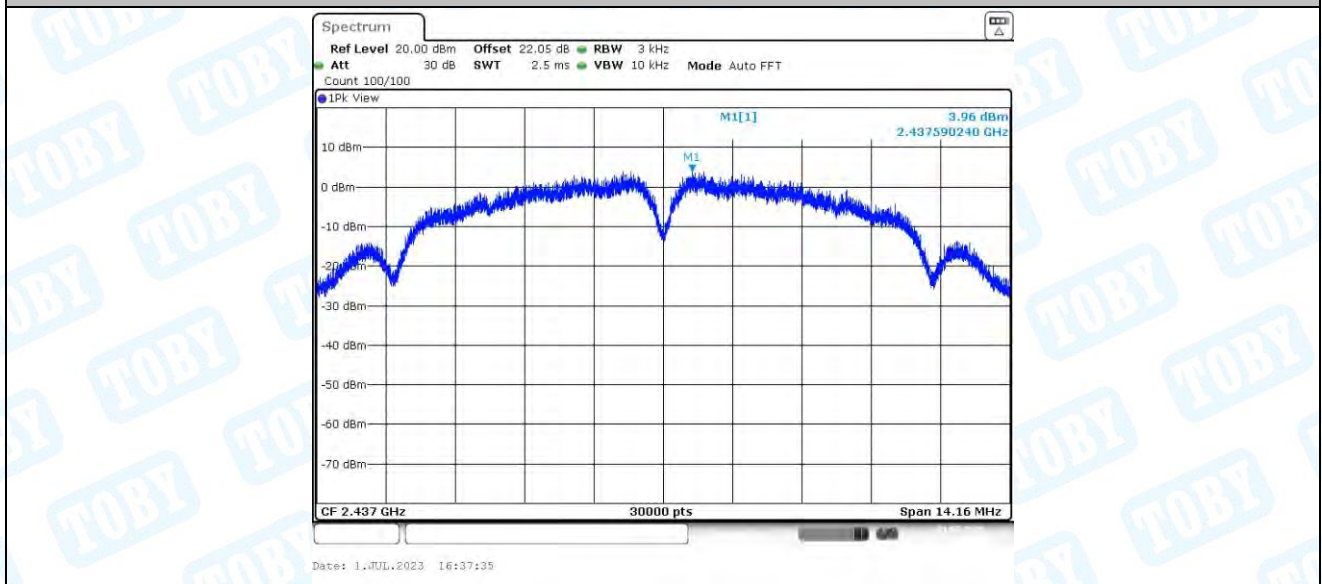
11B_Ant2_2437



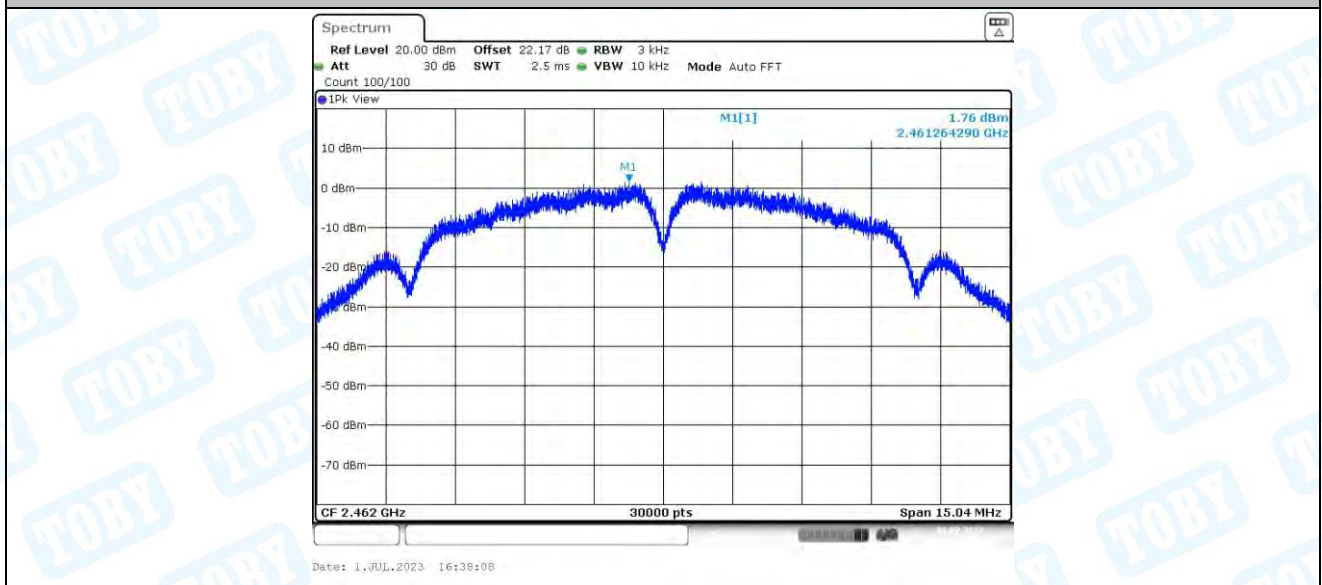
11B_Ant3_2437



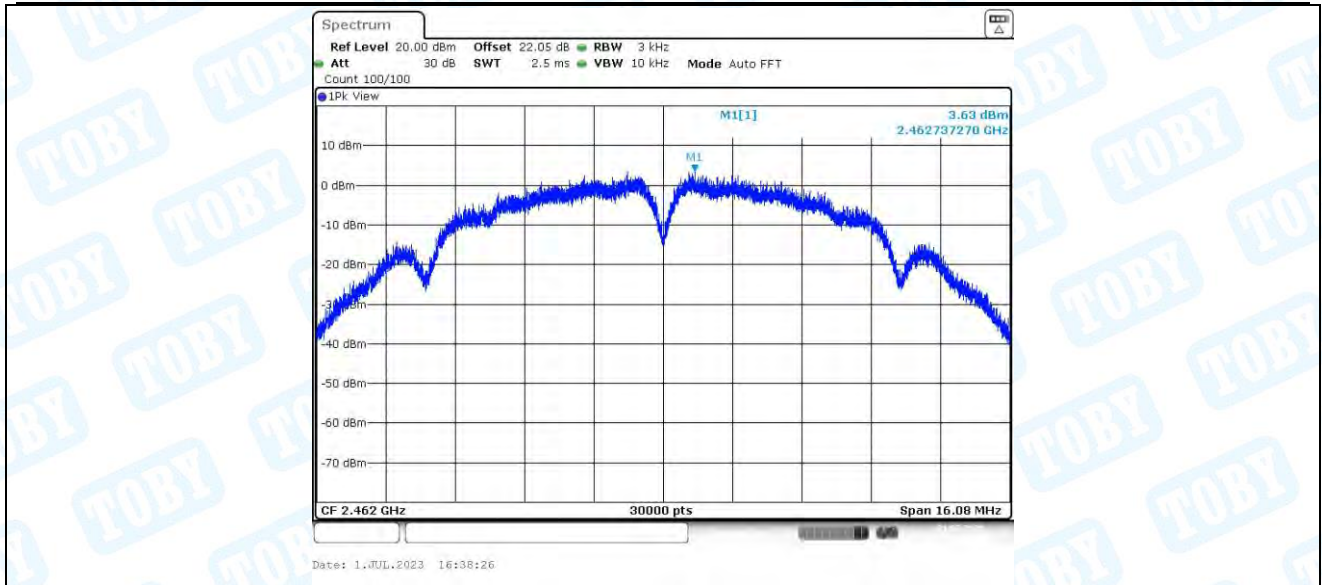
11B_Ant4_2437



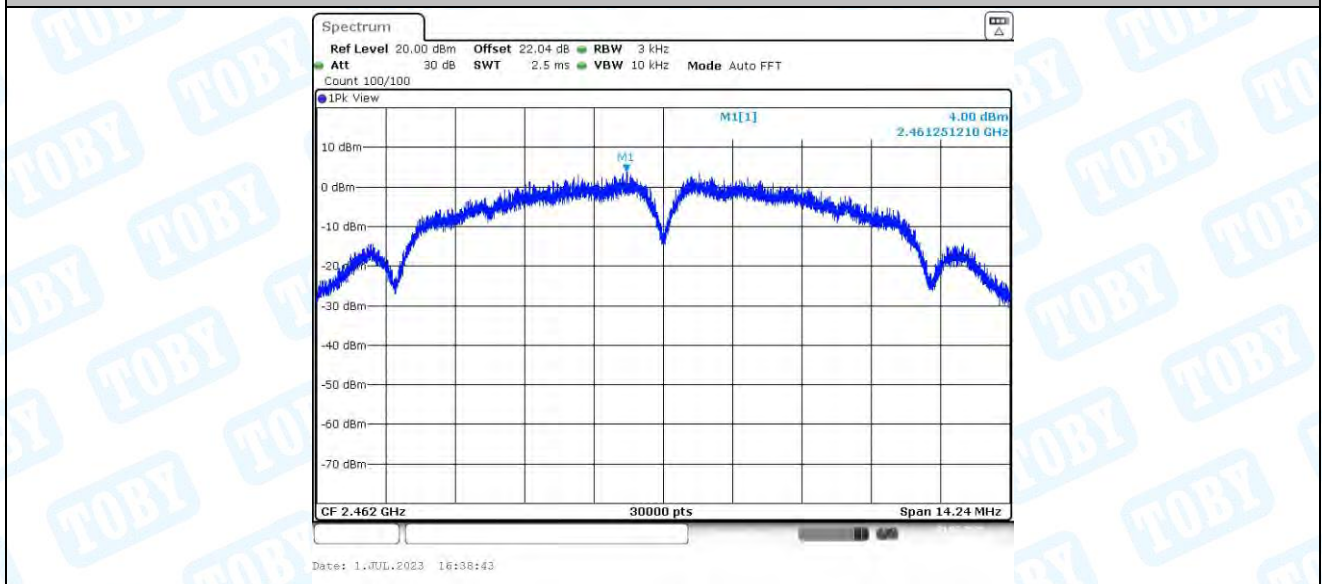
11B_Ant1_2462



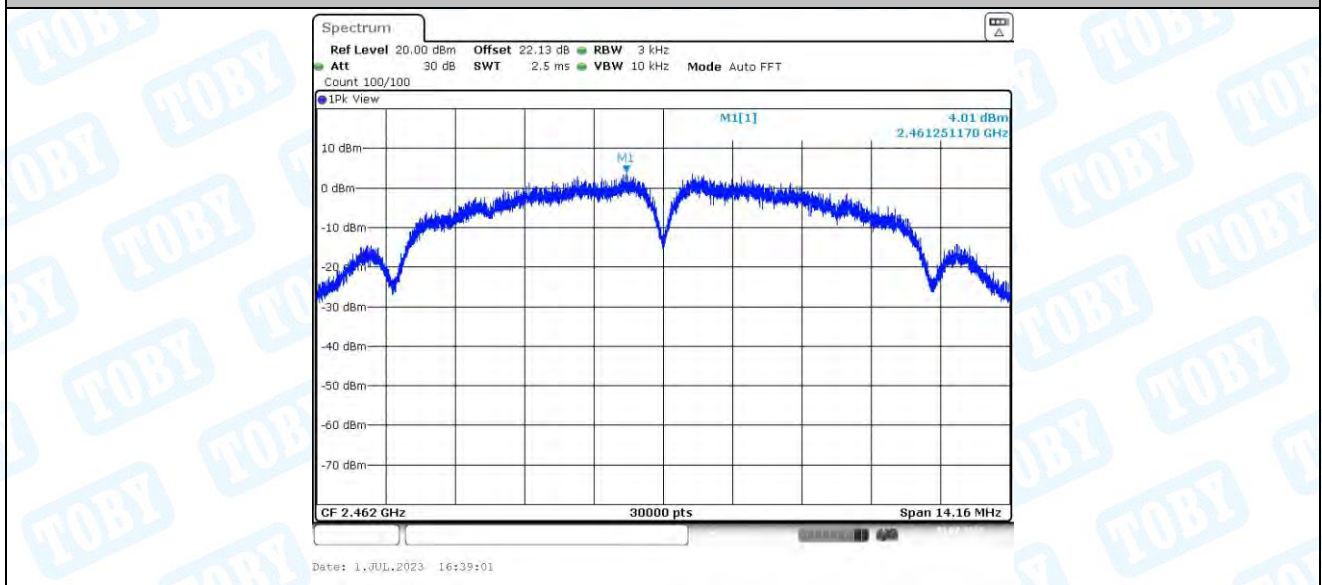
11B_Ant2_2462



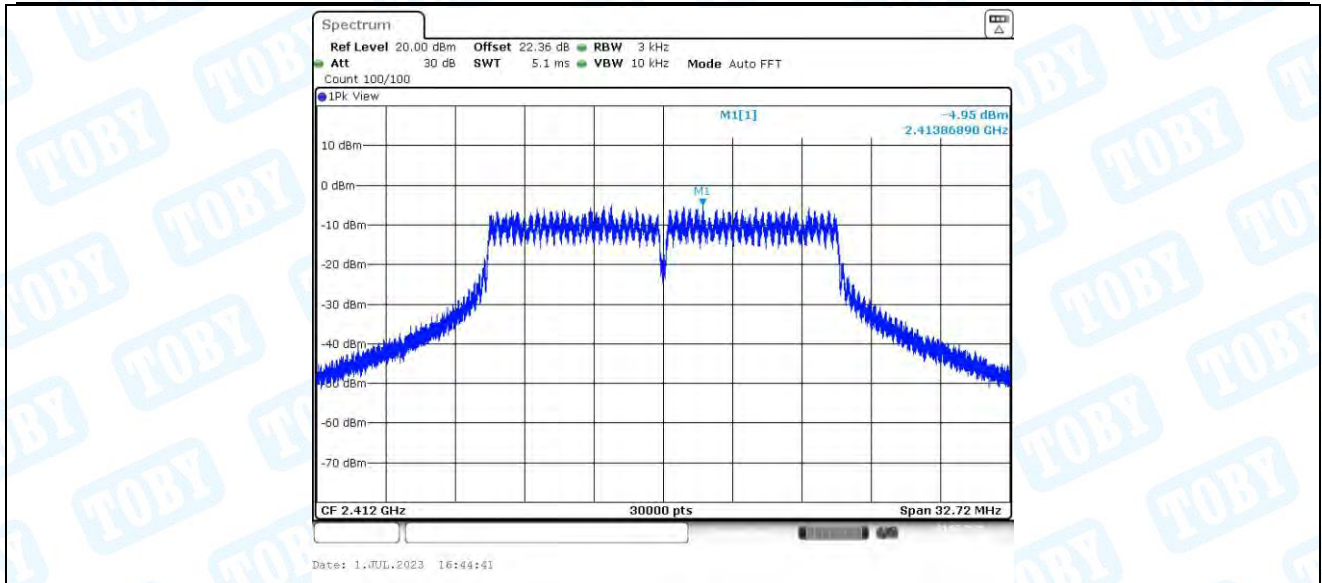
11B_Ant3_2462



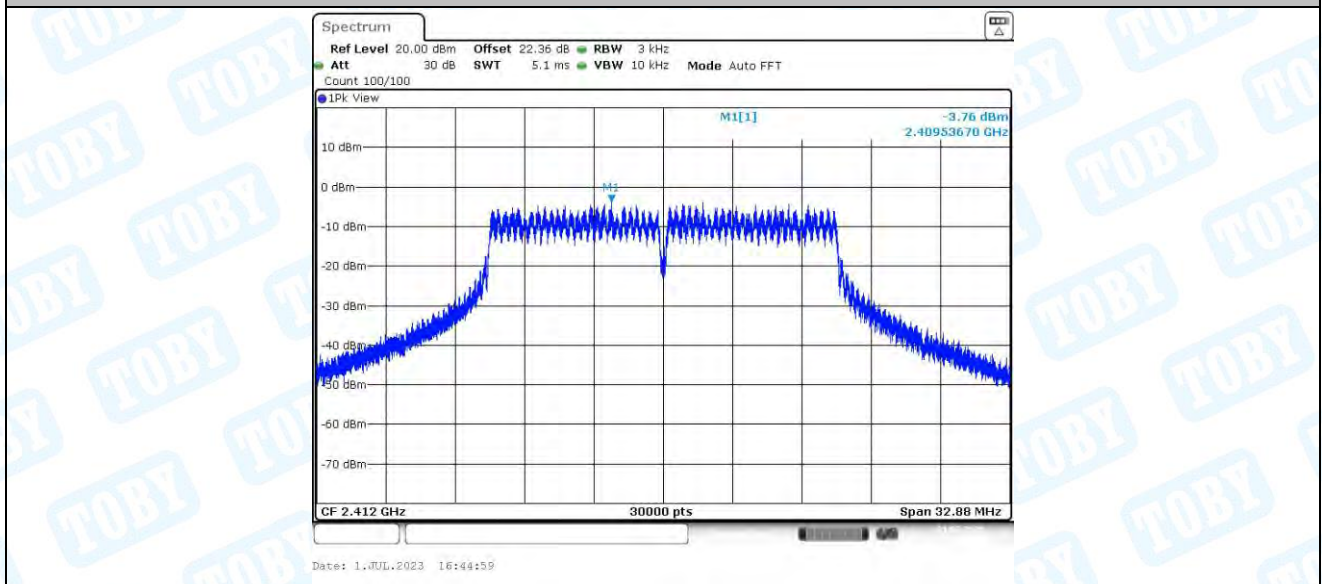
11B_Ant4_2462



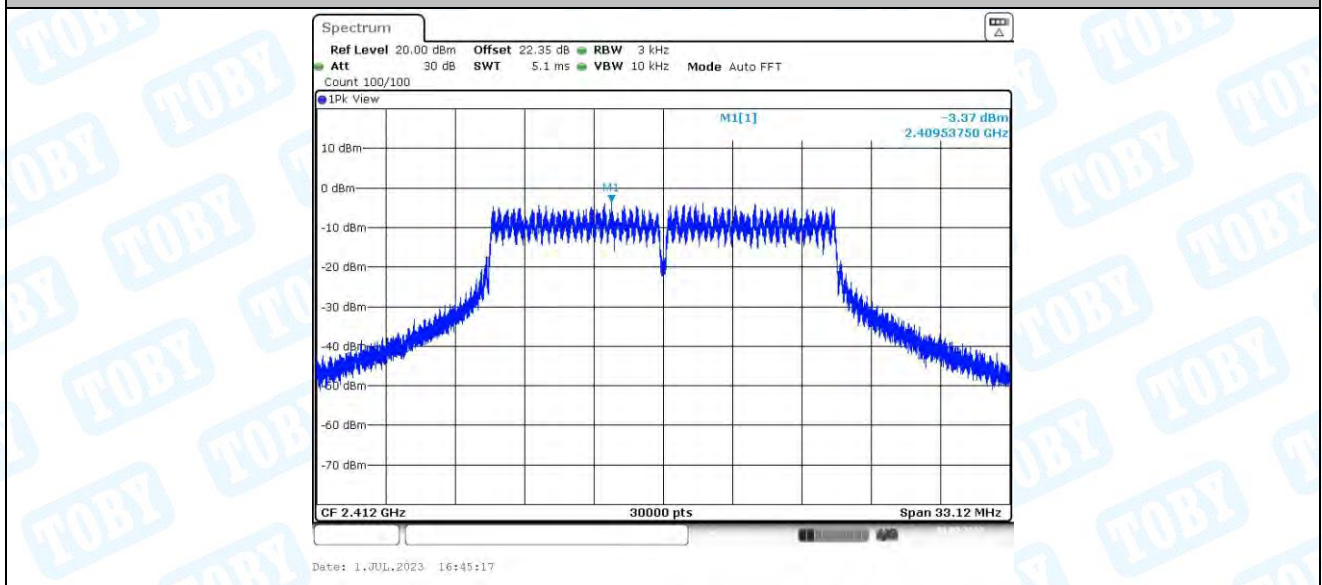
11G_Ant1_2412



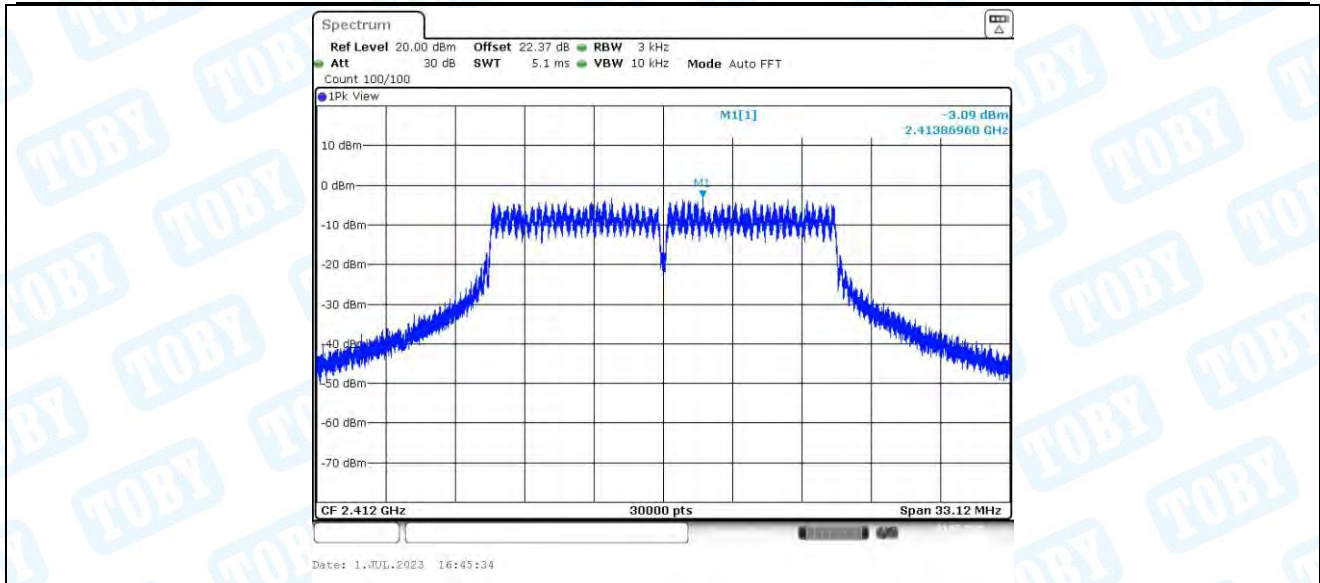
11G_Ant2_2412



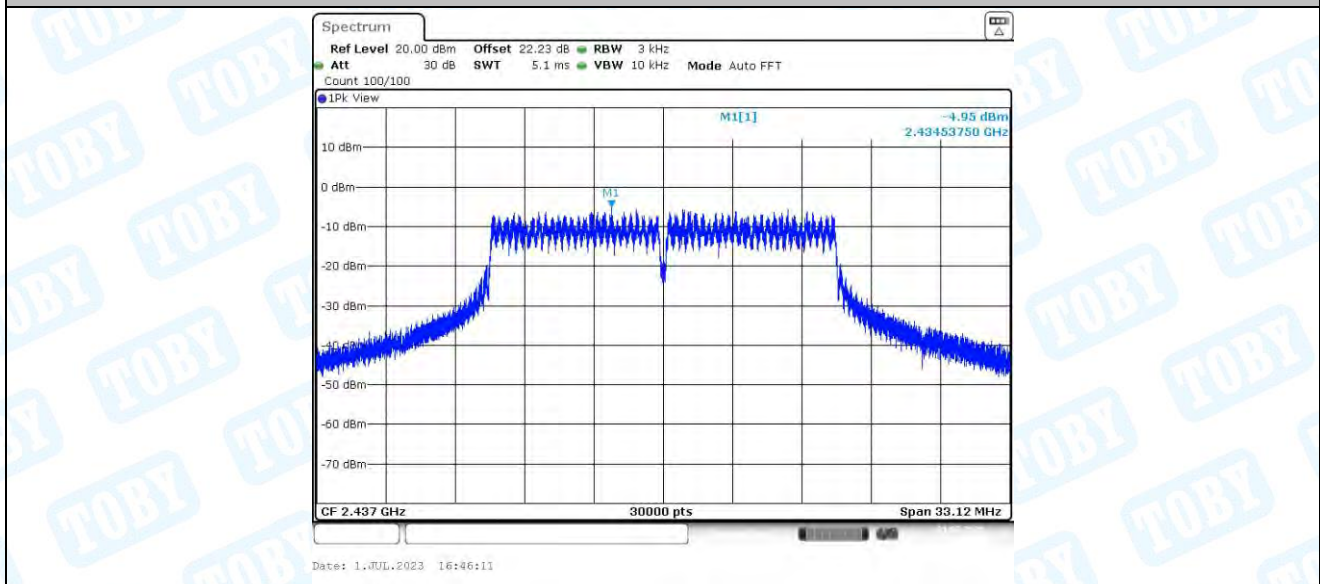
11G_Ant3_2412



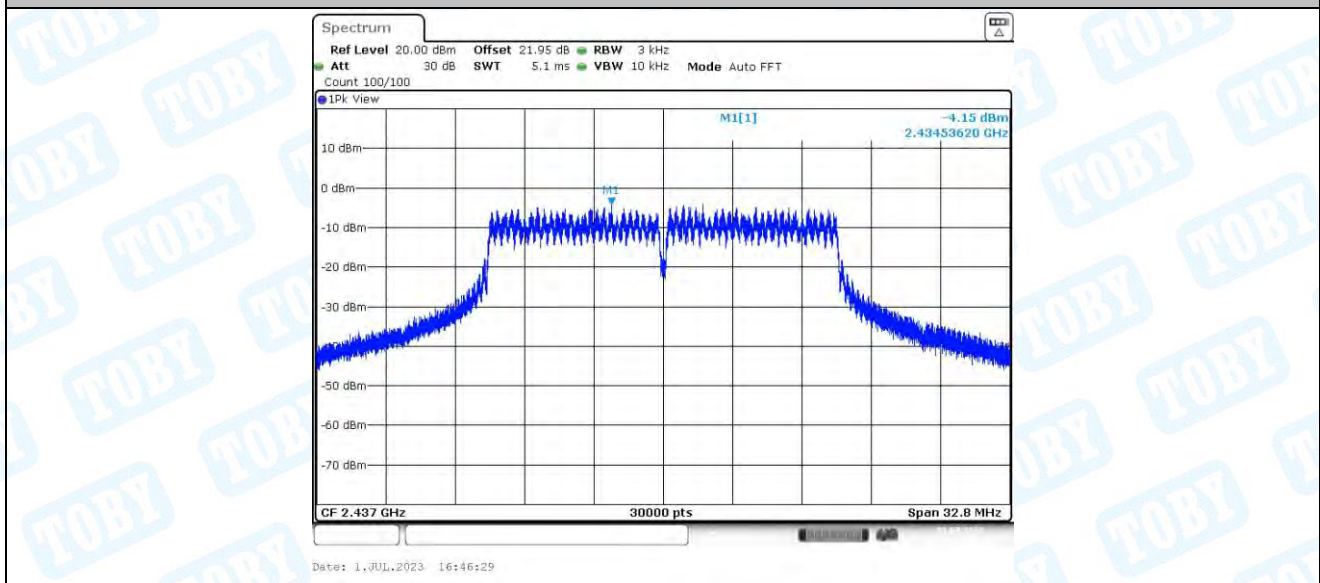
11G_Ant4_2412



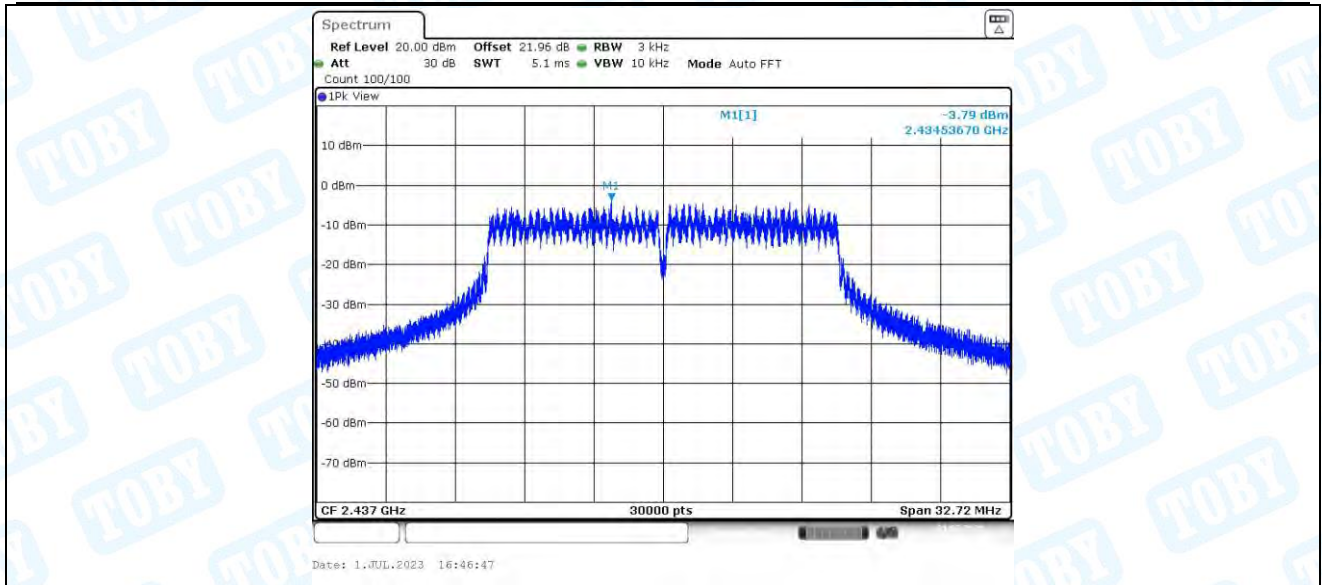
11G_Ant1_2437



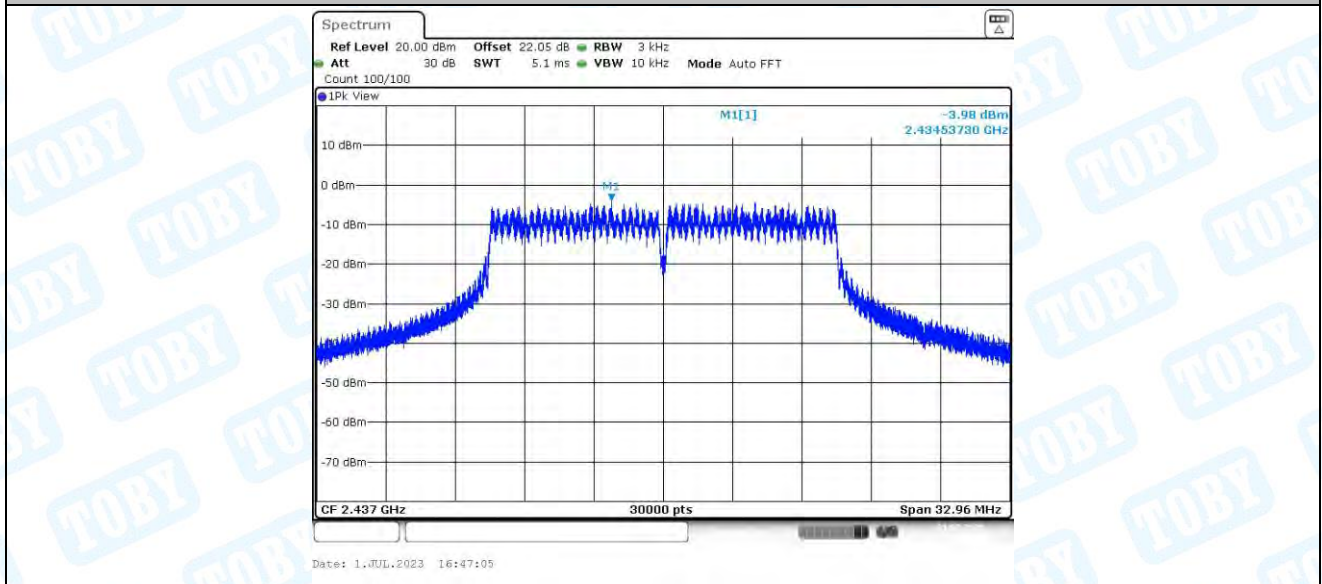
11G_Ant2_2437



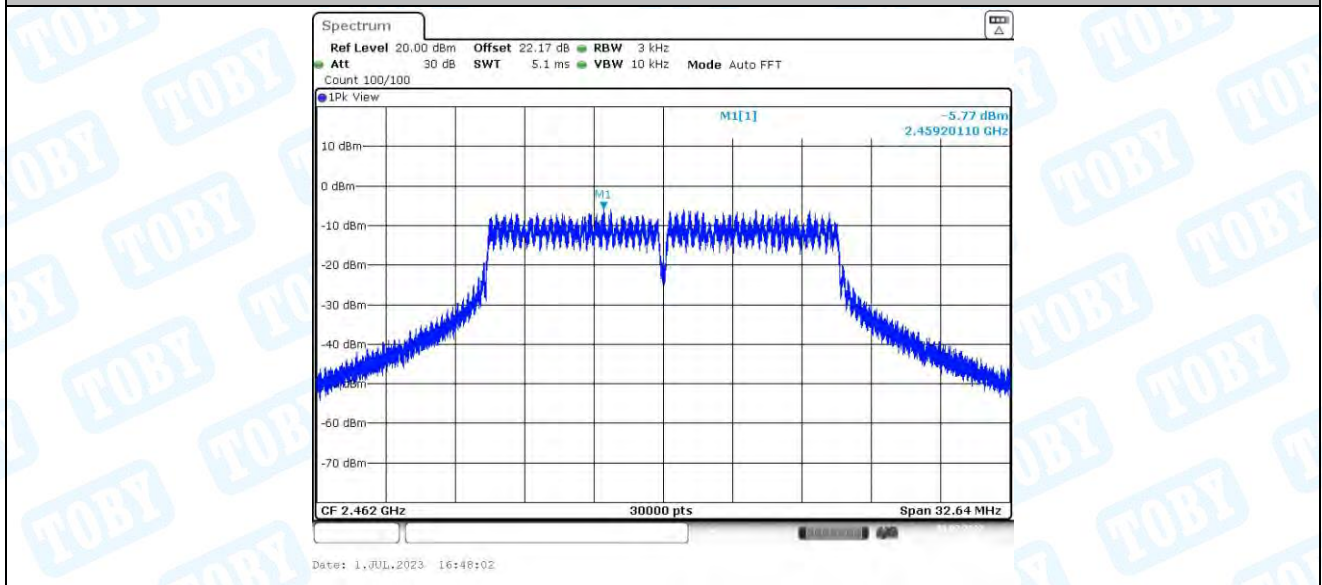
11G_Ant3_2437



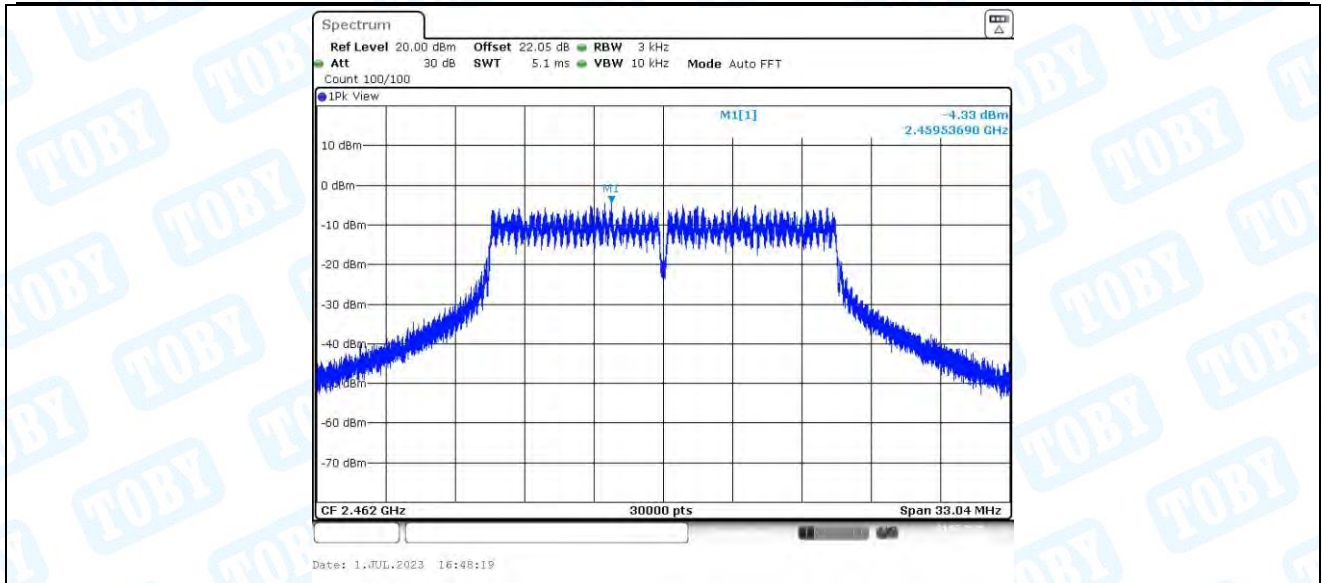
11G_Ant4_2437



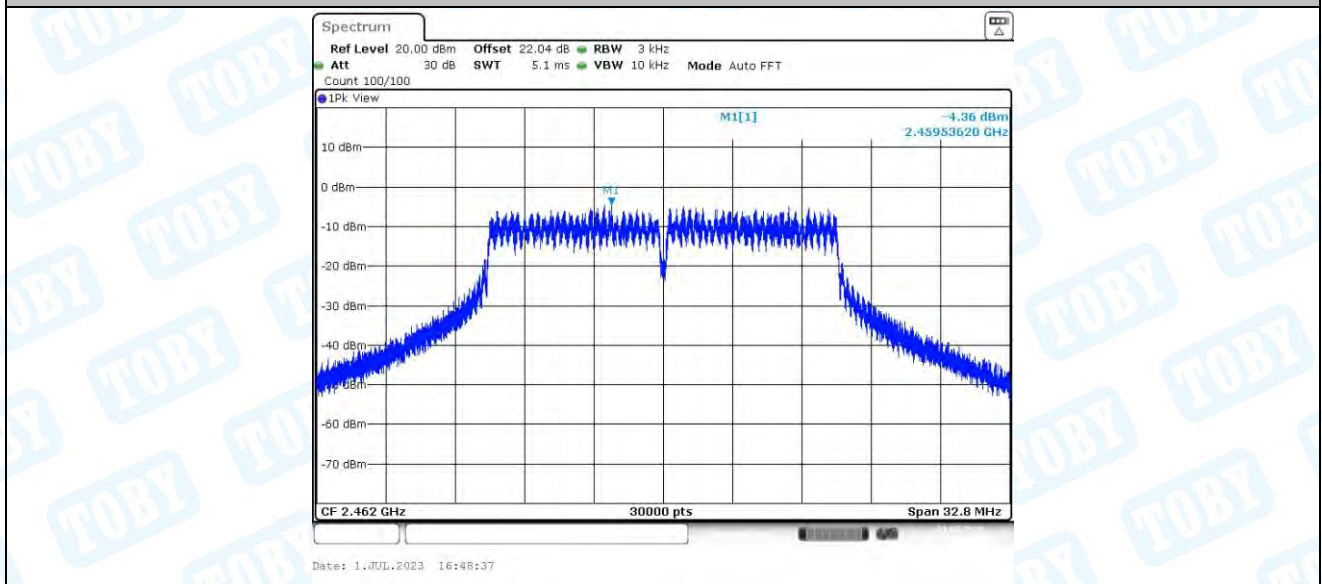
11G_Ant1_2462



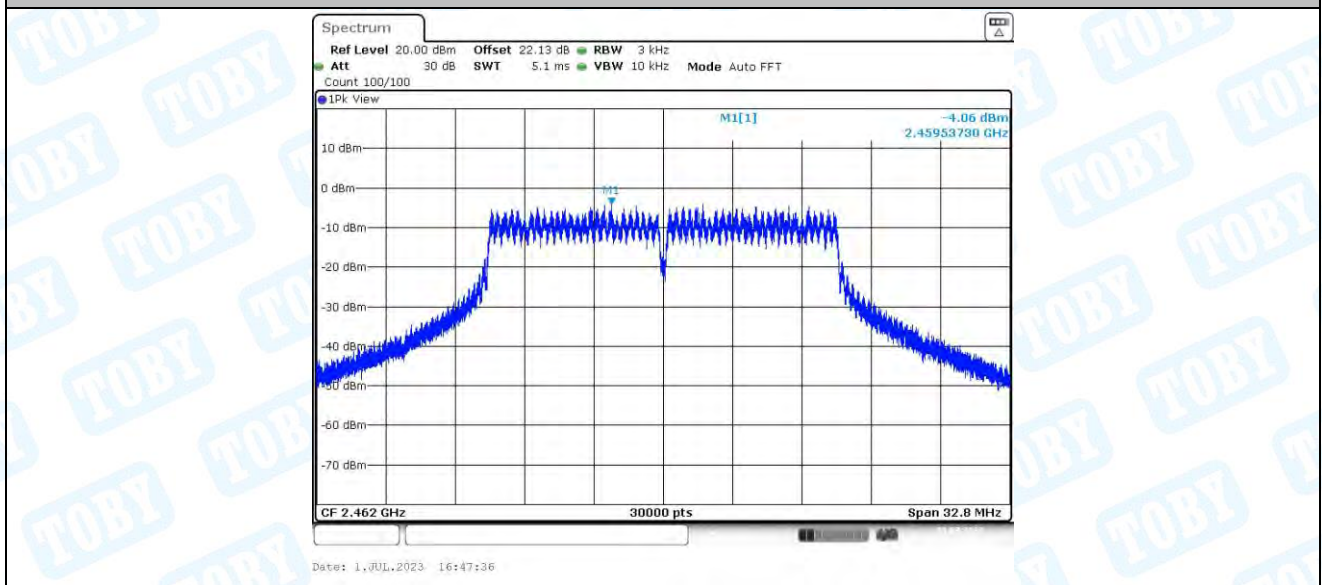
11G_Ant2_2462



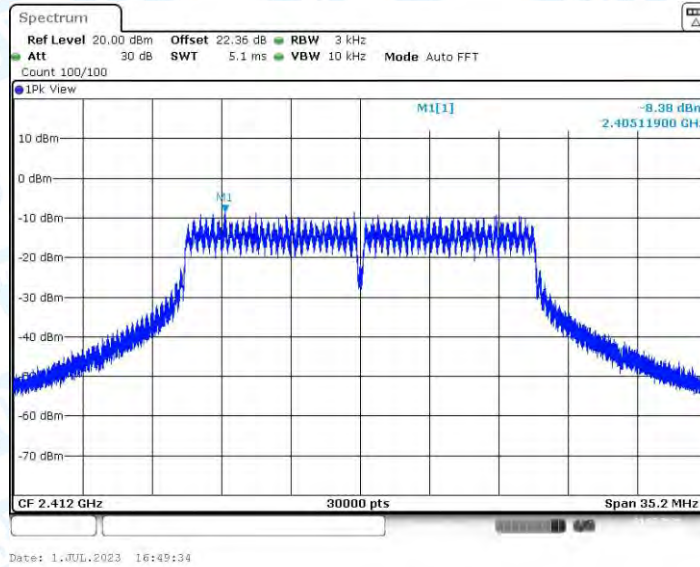
11G_Ant3_2462



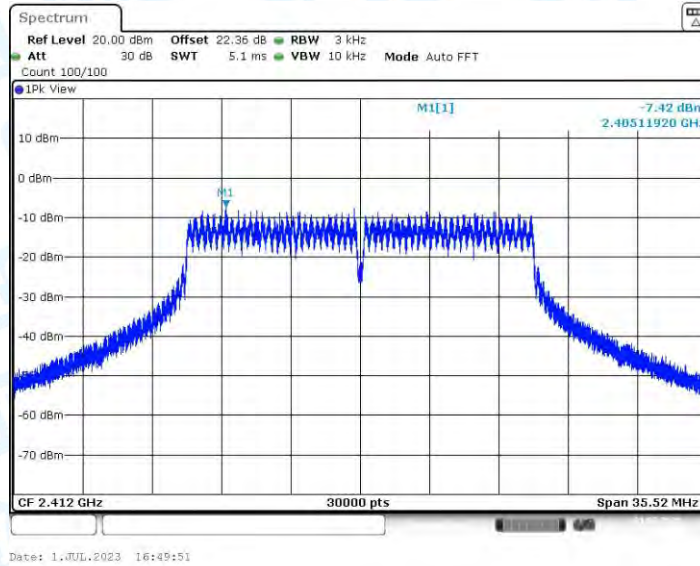
11G_Ant4_2462



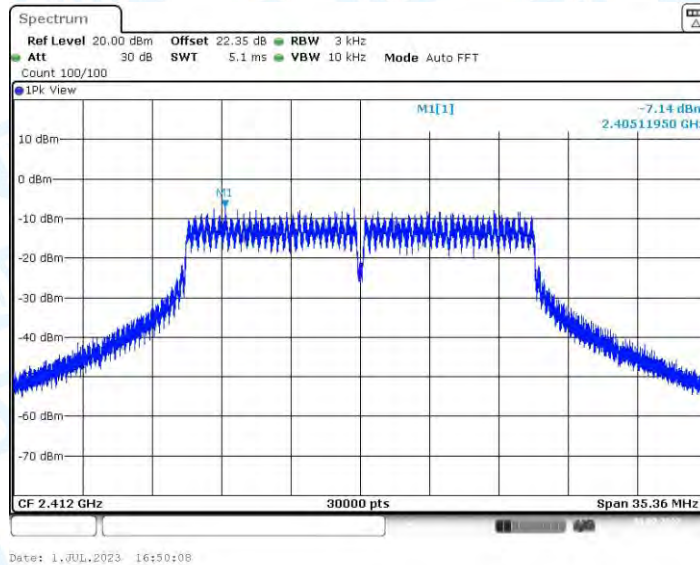
11N20MIMO_Ant1_2412



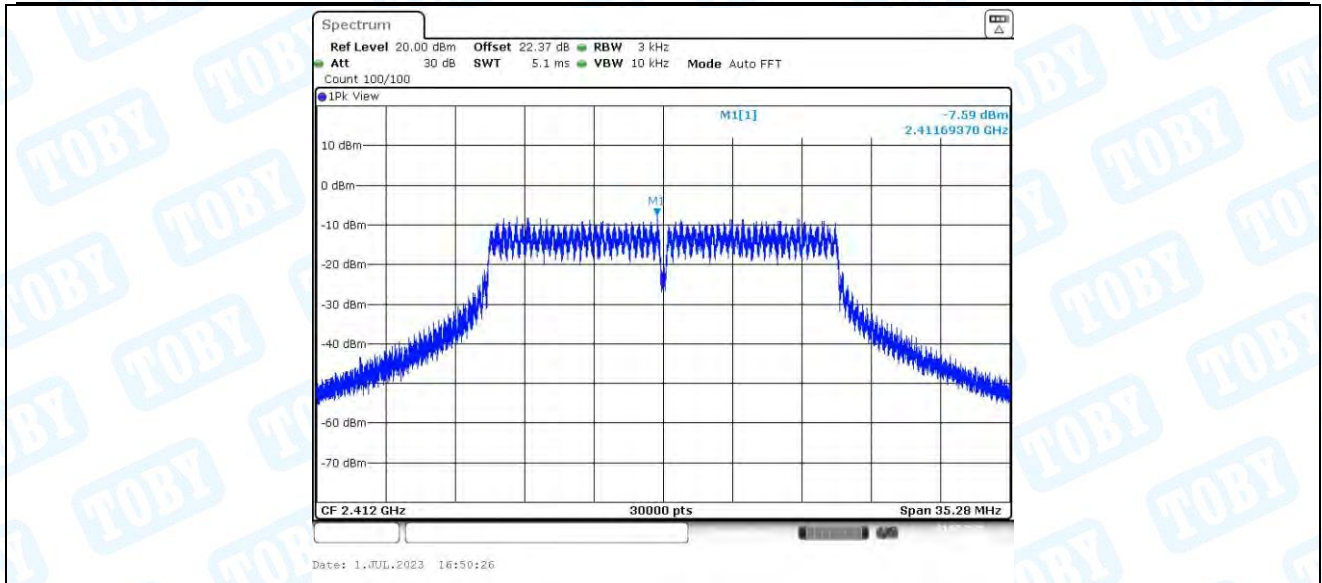
11N20MIMO_Ant2_2412



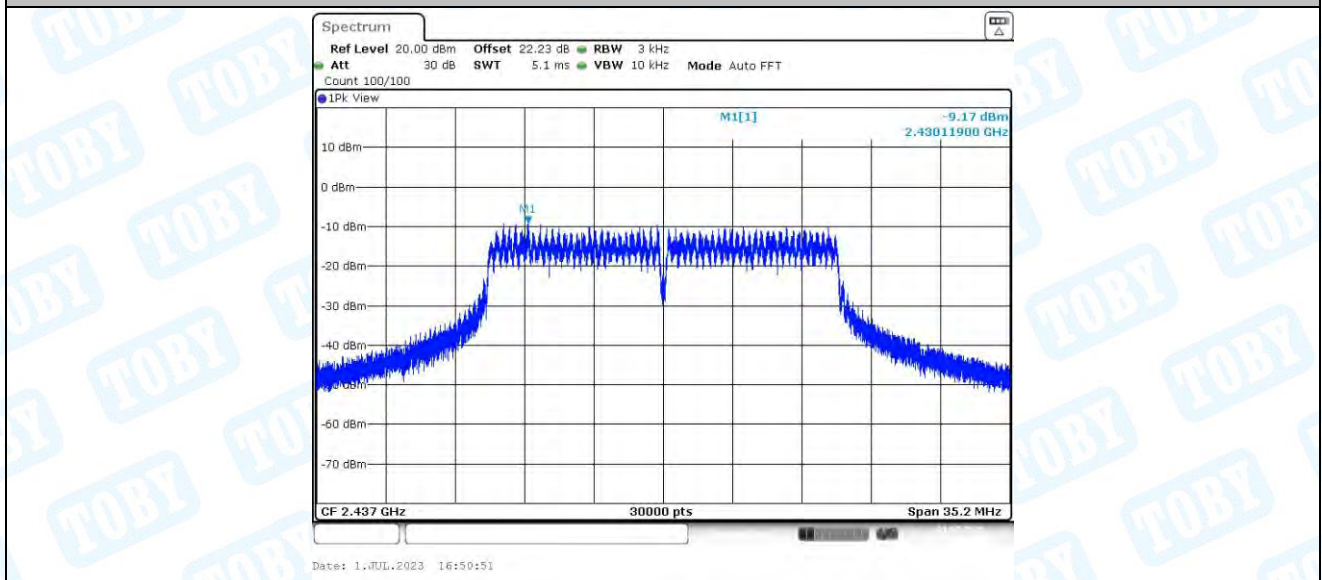
11N20MIMO_Ant3_2412



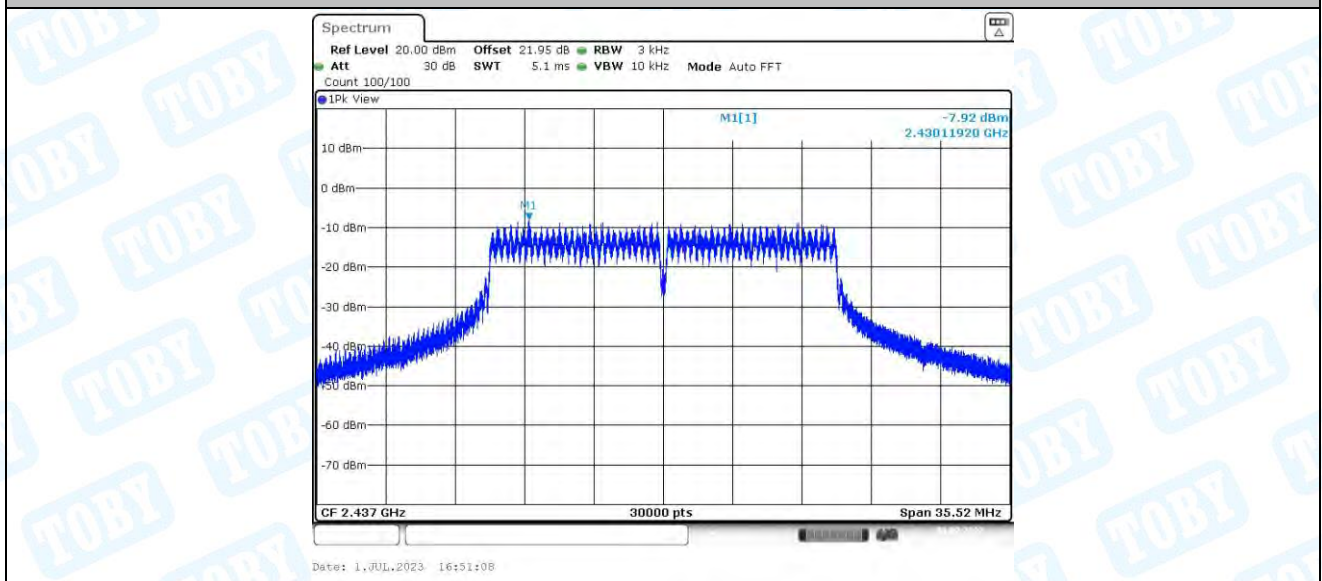
11N20MIMO_Ant4_2412



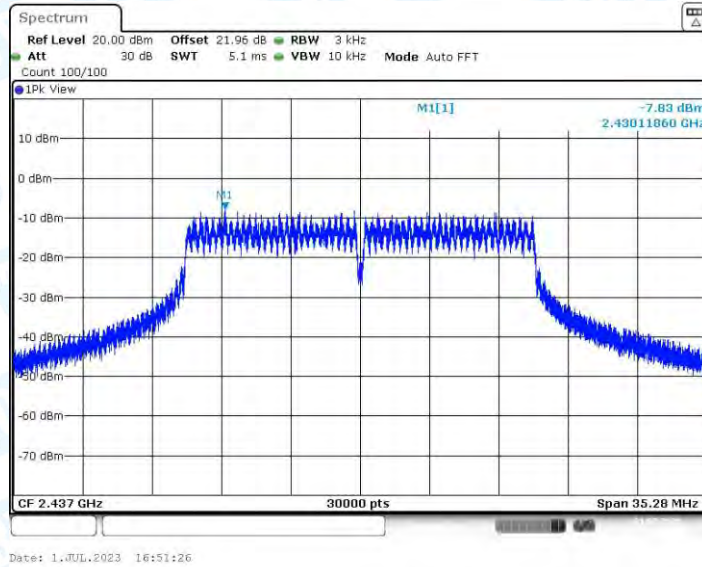
11N20MIMO_Ant1_2437



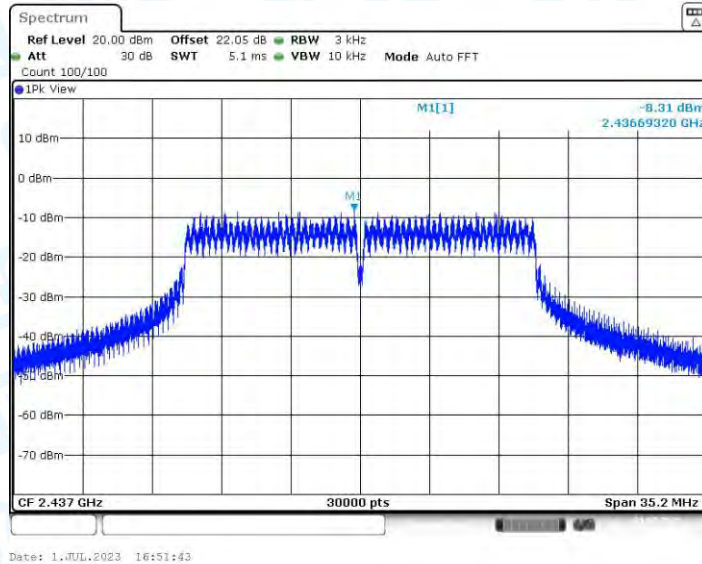
11N20MIMO_Ant2_2437



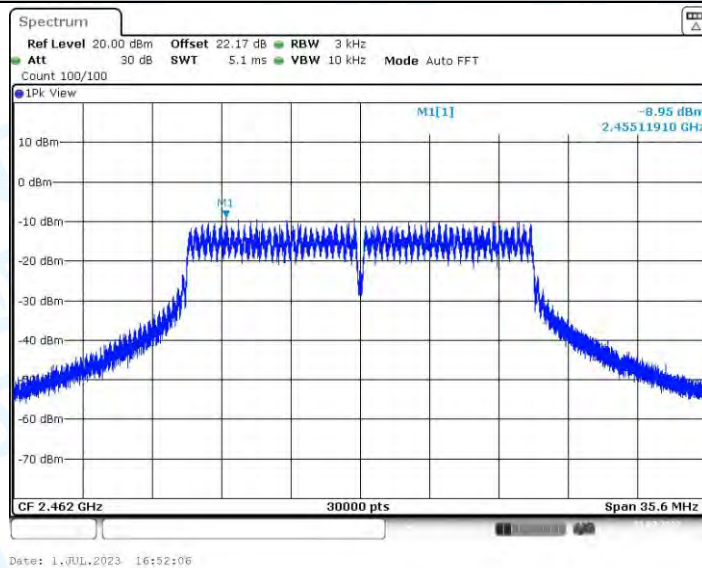
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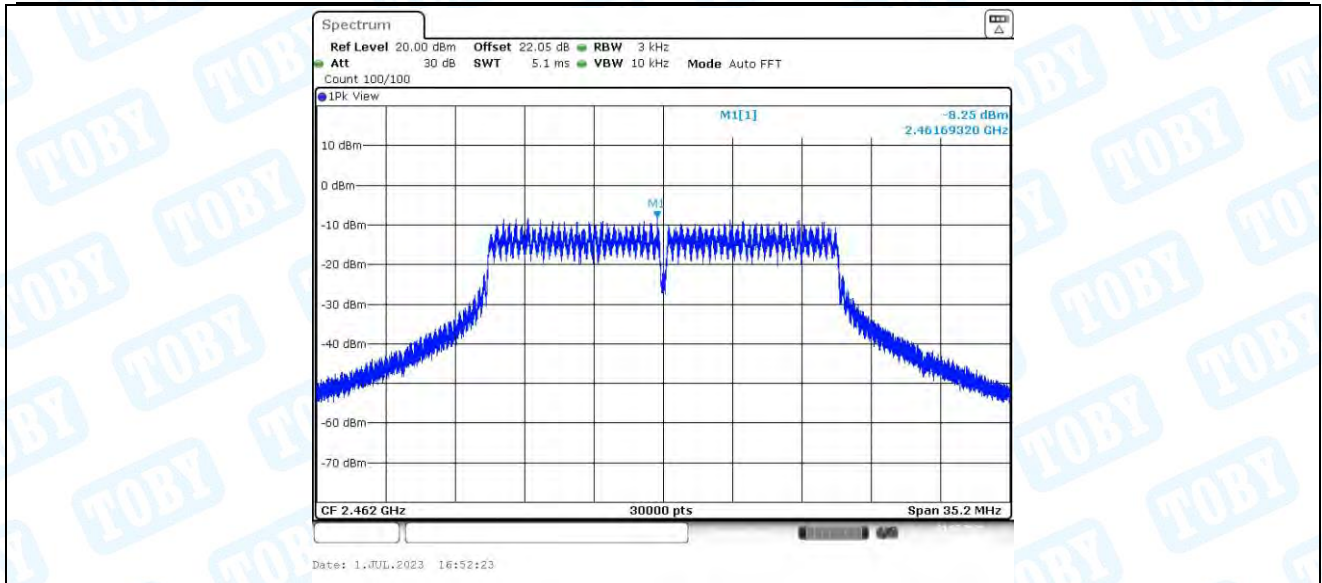
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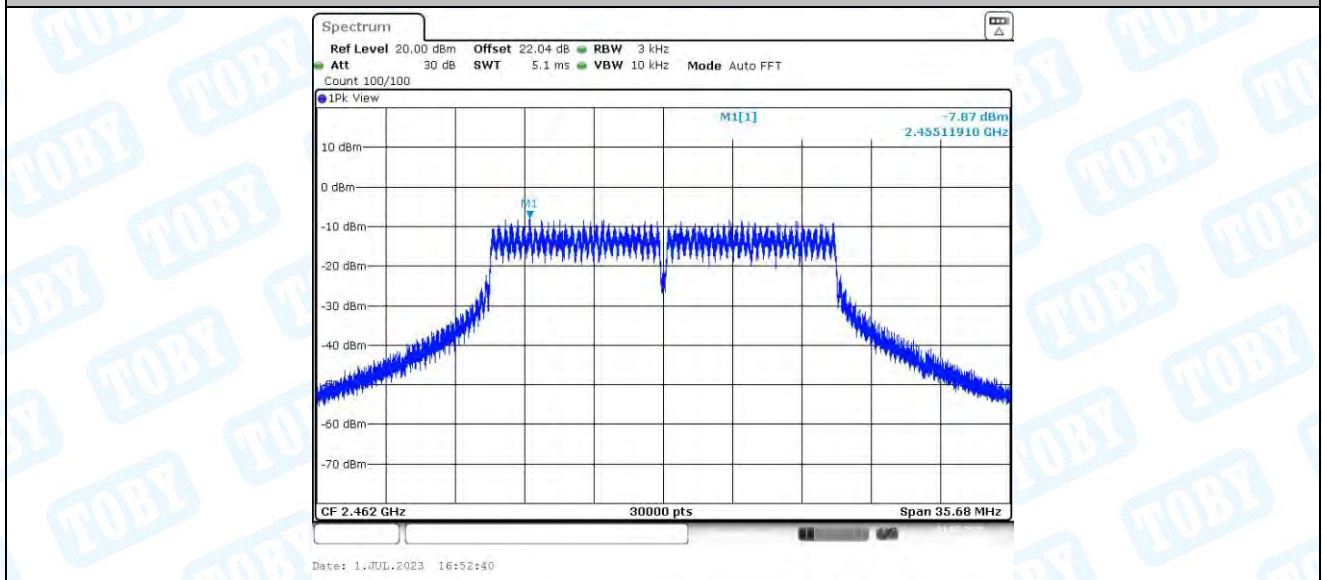
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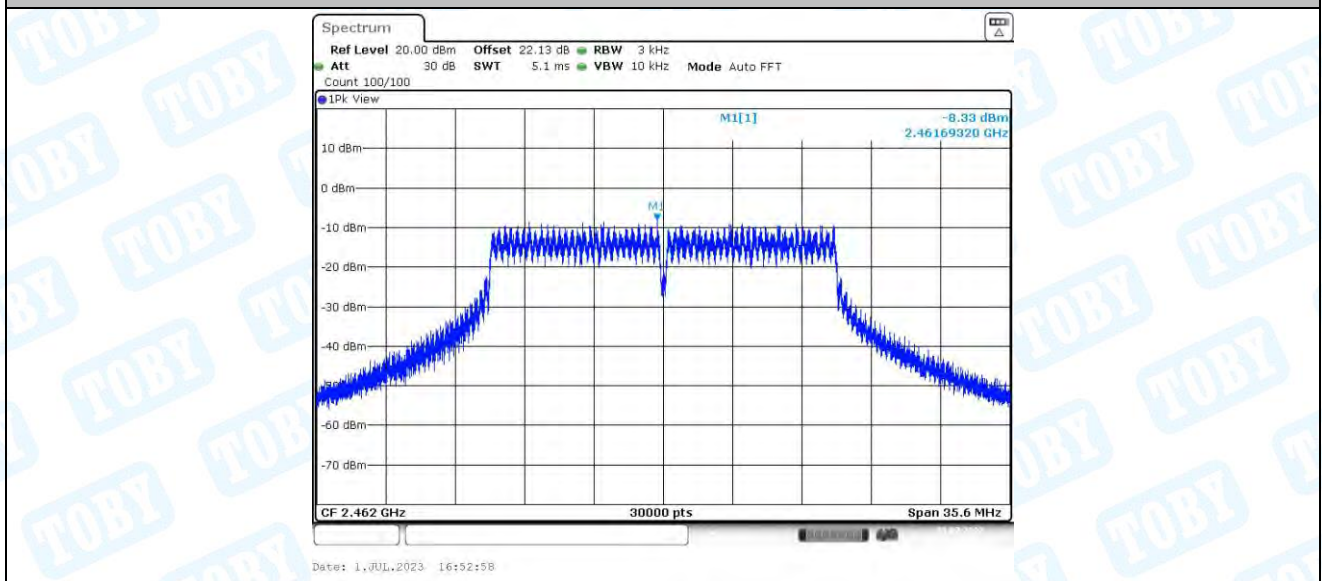
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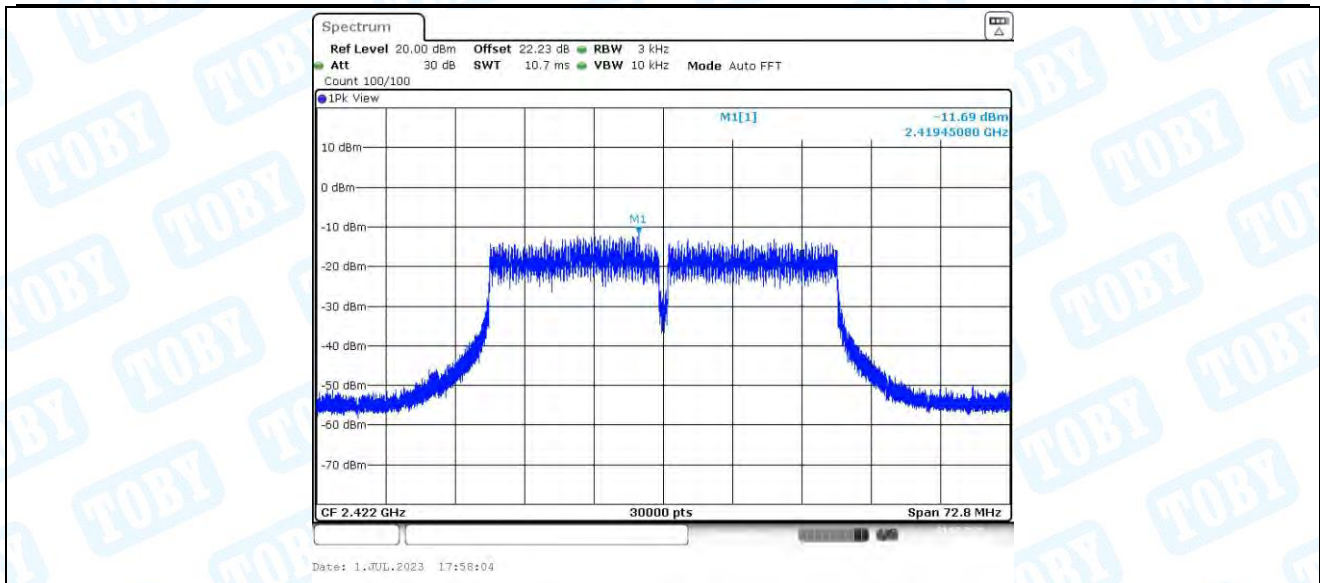
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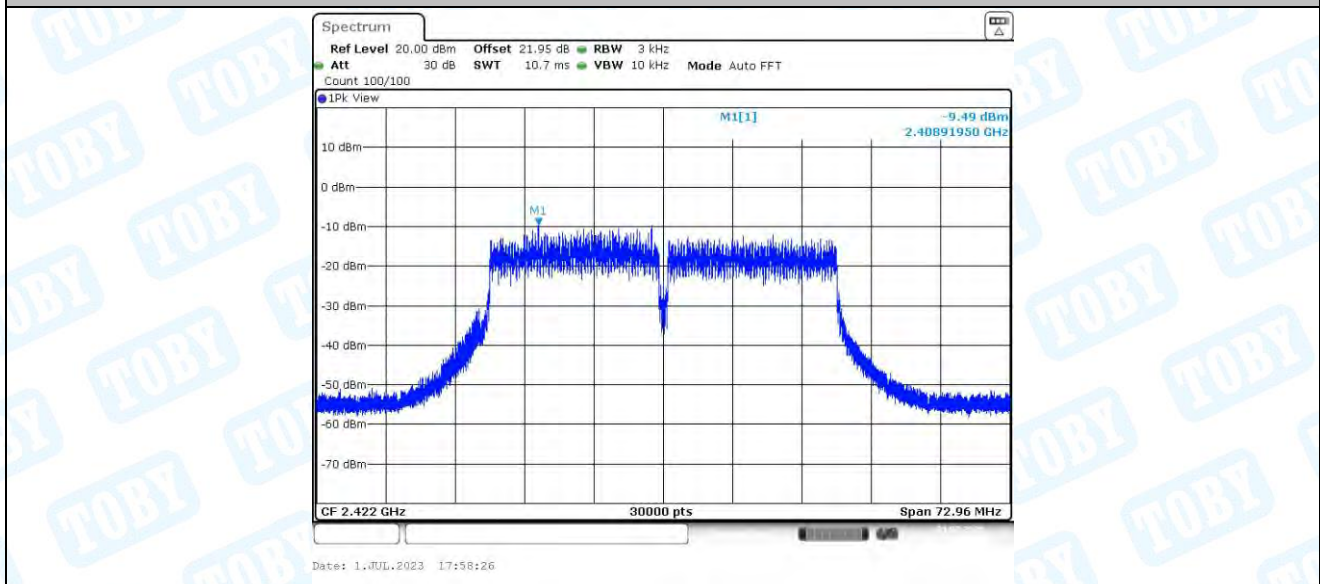
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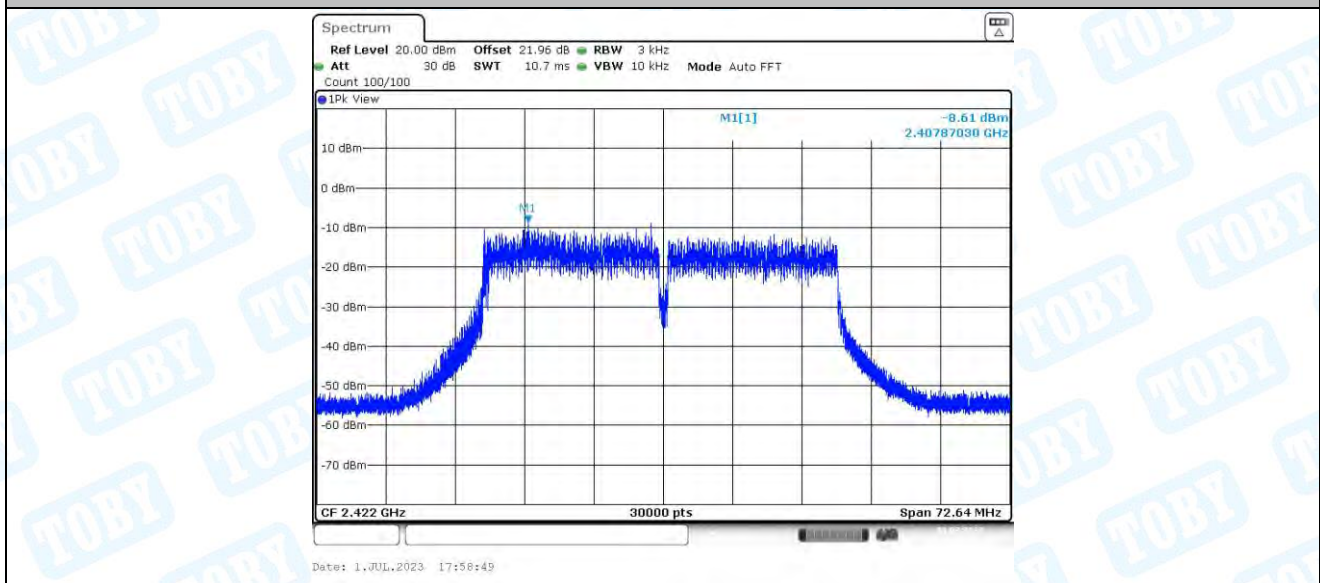
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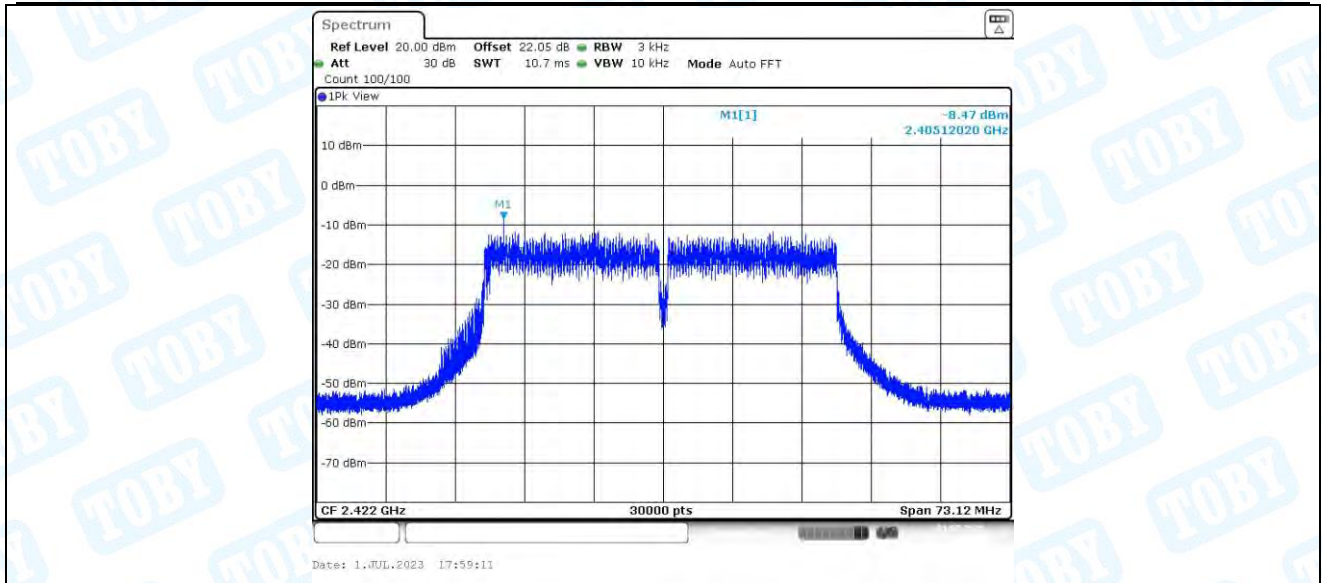
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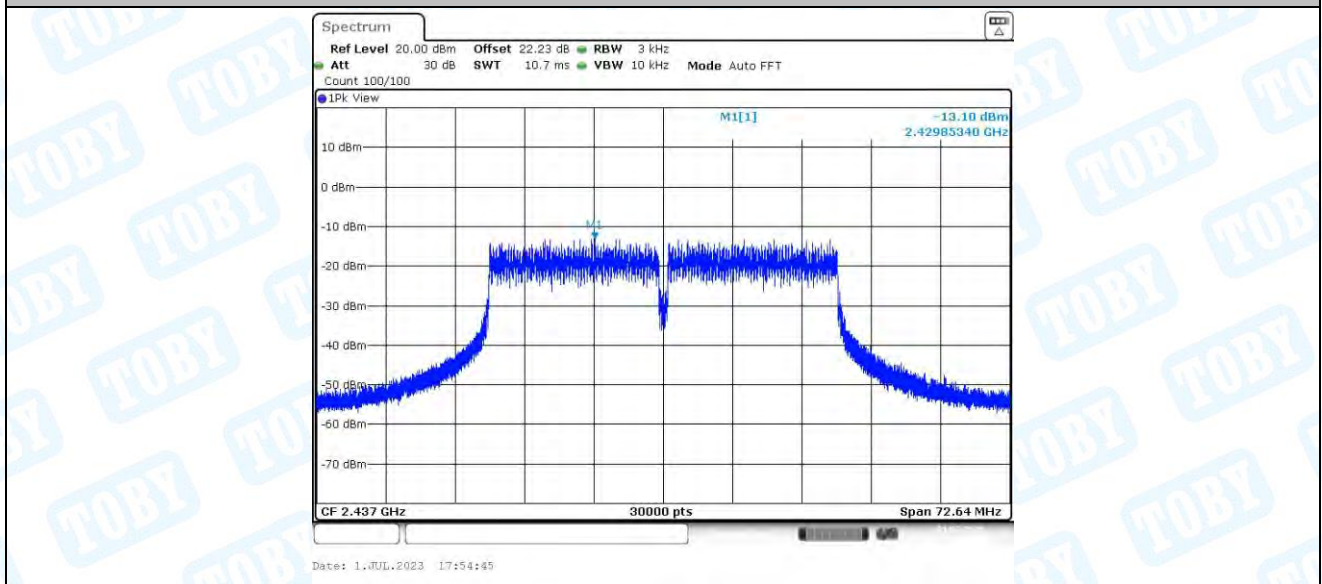
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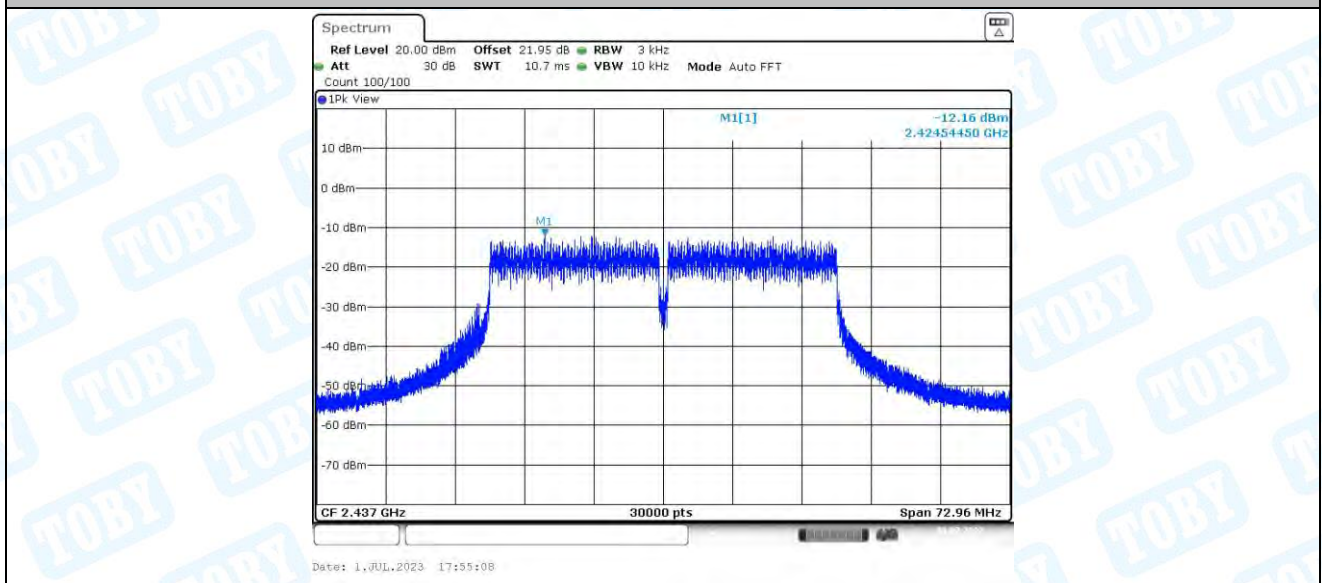
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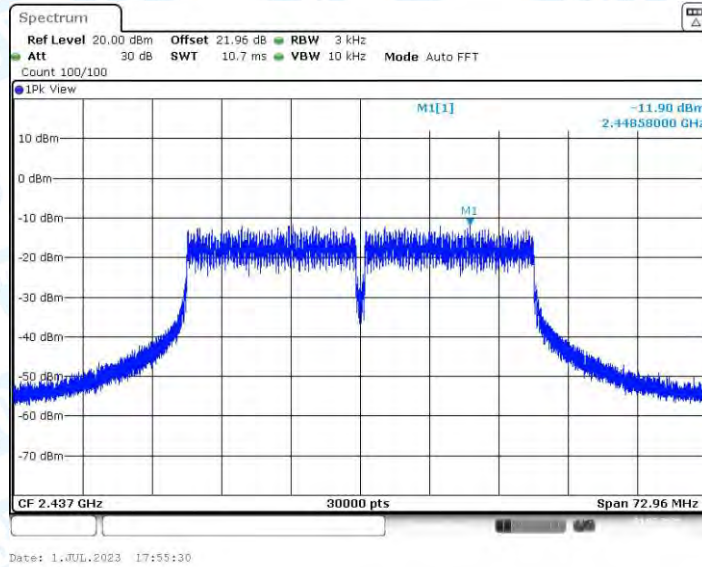
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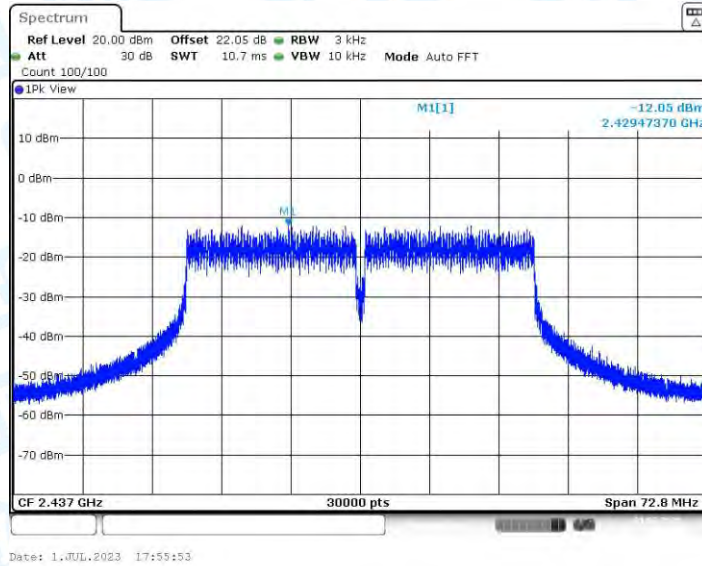
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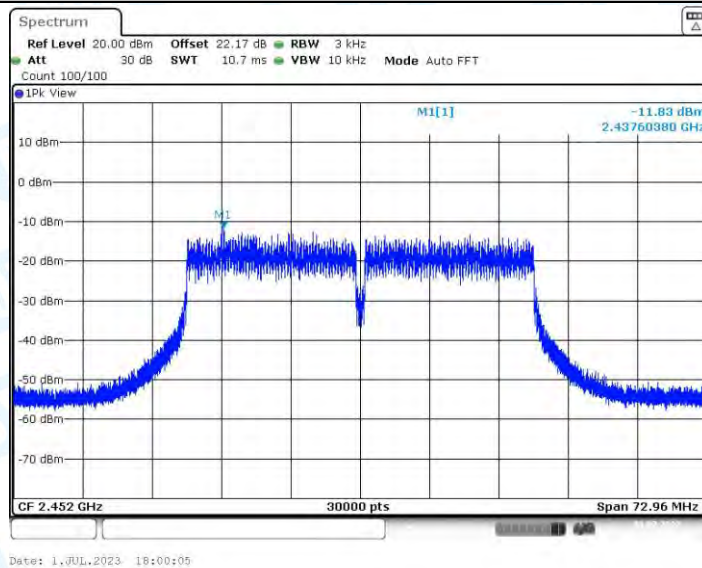
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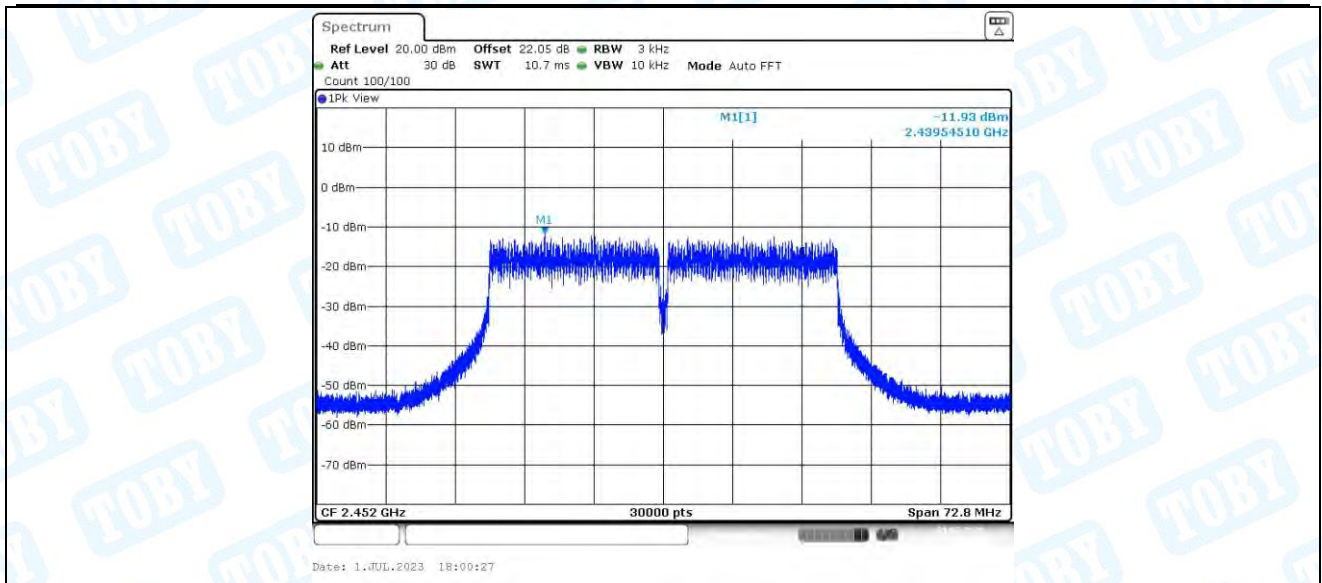
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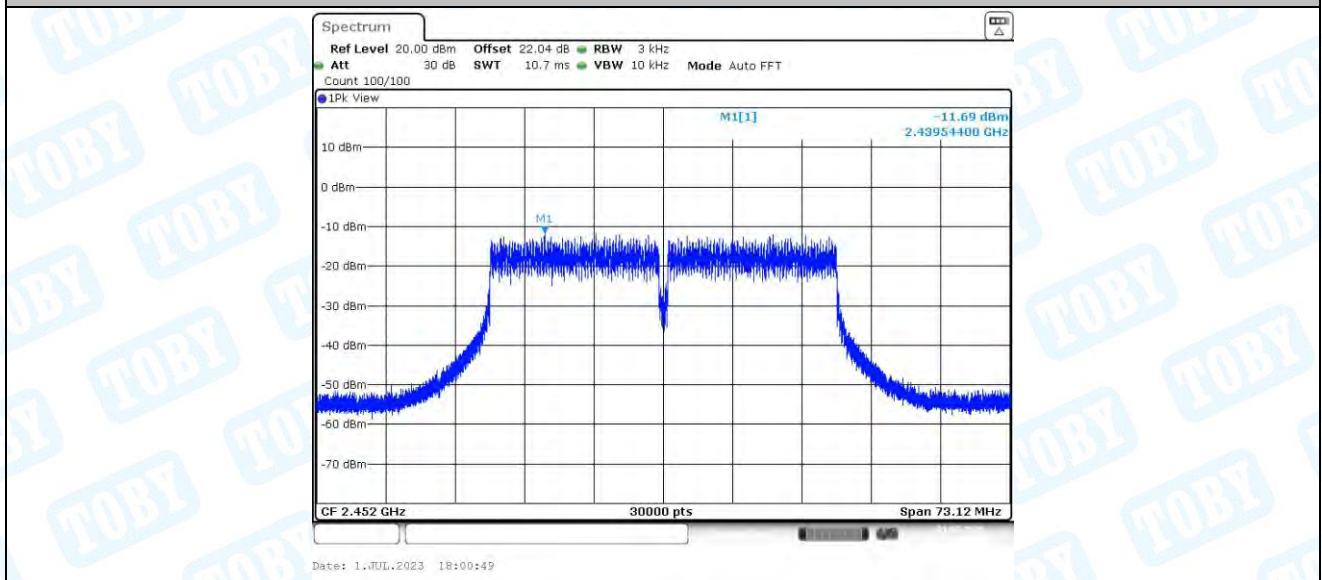
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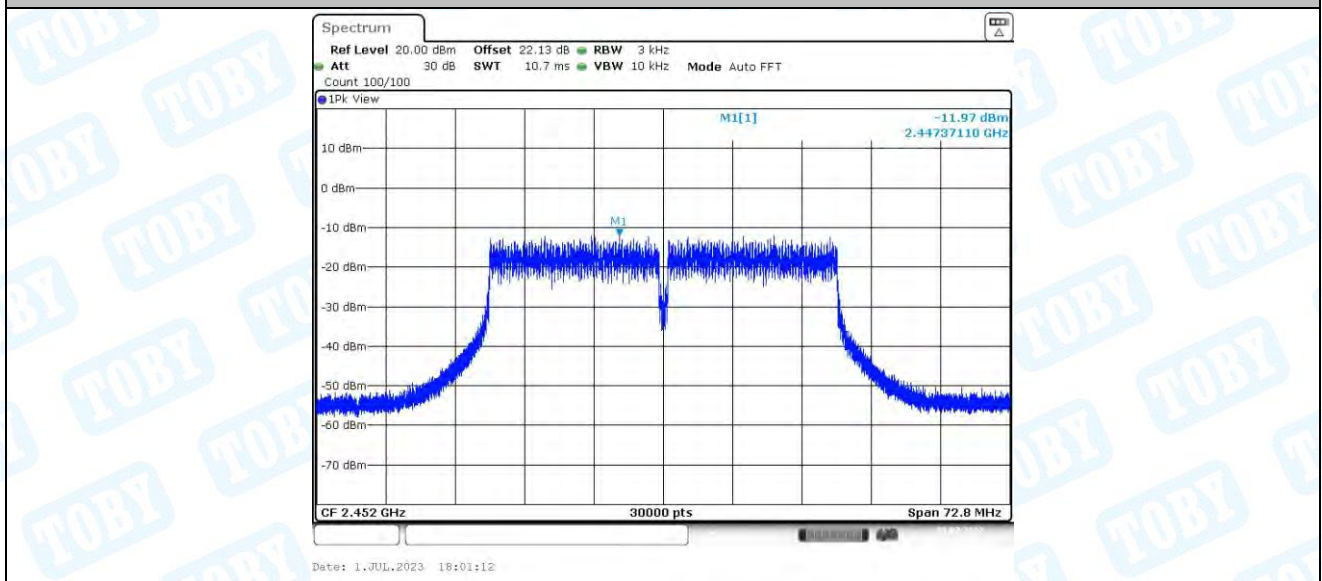
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11N40MIMO_Ant3_2452



11N40MIMO_Ant4_2452



11AX20MIMO_Ant1_2412