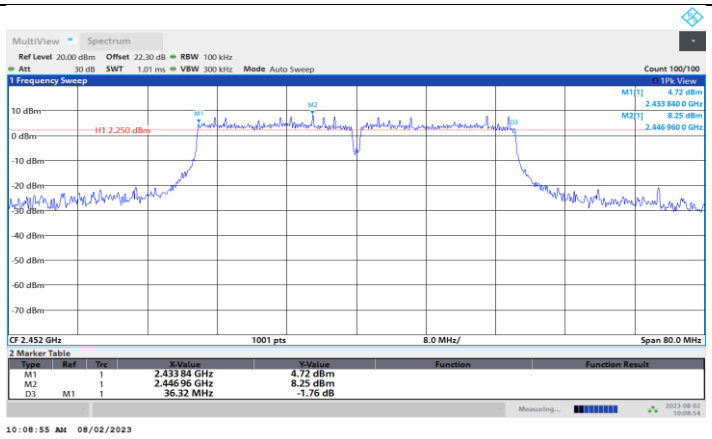
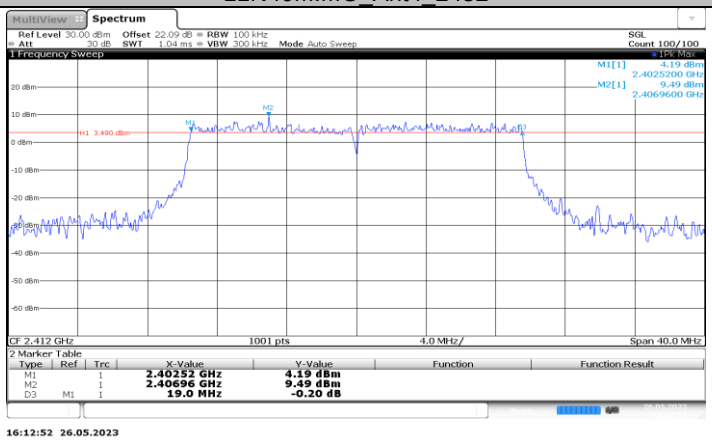
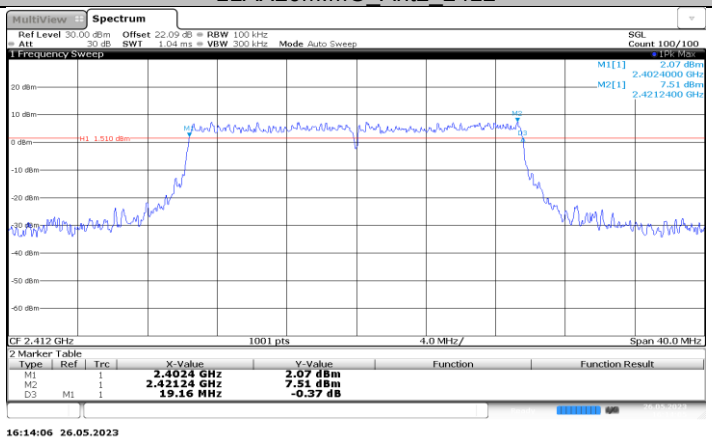


11N40MIMO_Ant4_2452

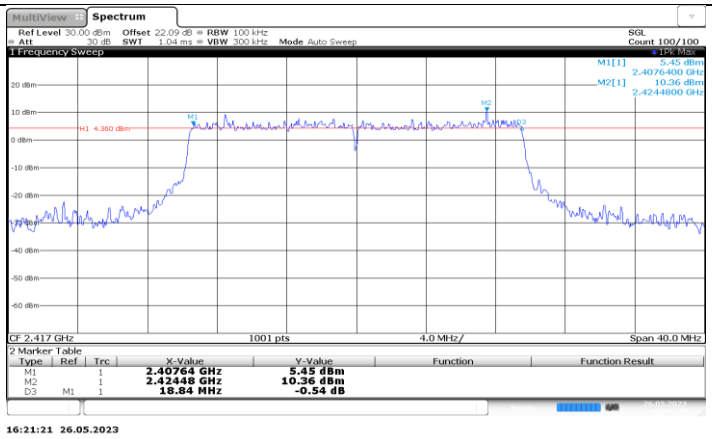


11AX20MIMO_Ant2_2412

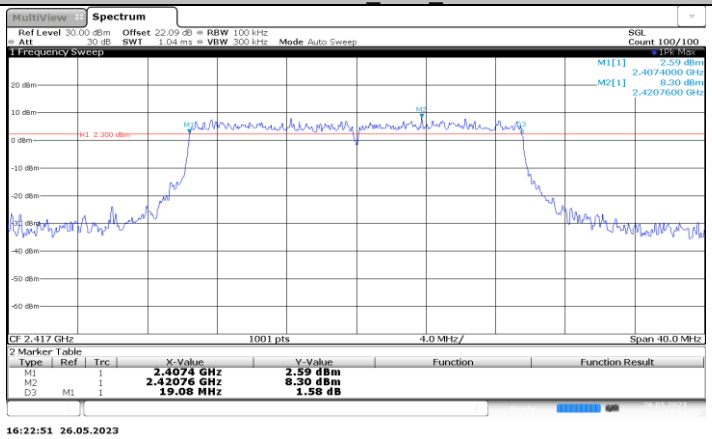


11AX20MIMO_Ant4_2412

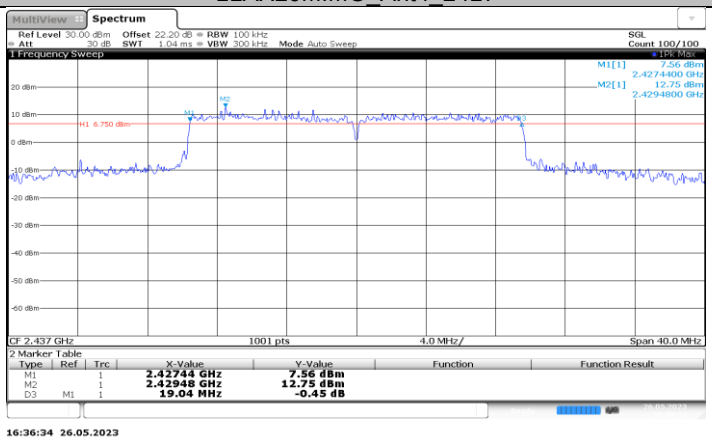
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2417

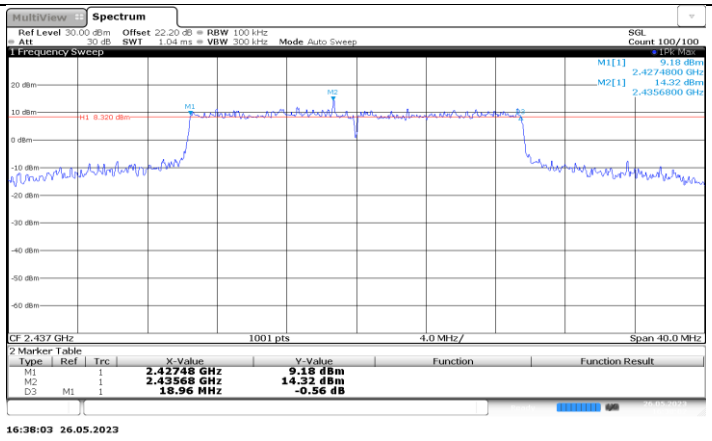


11AX20MIMO_Ant4_2417

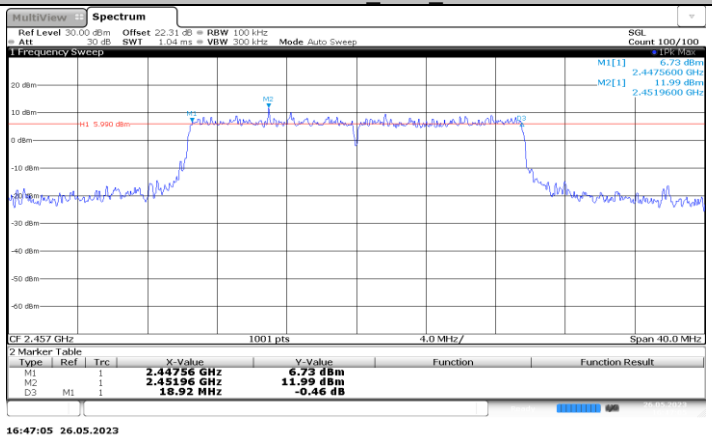


11AX20MIMO_Ant2_2437

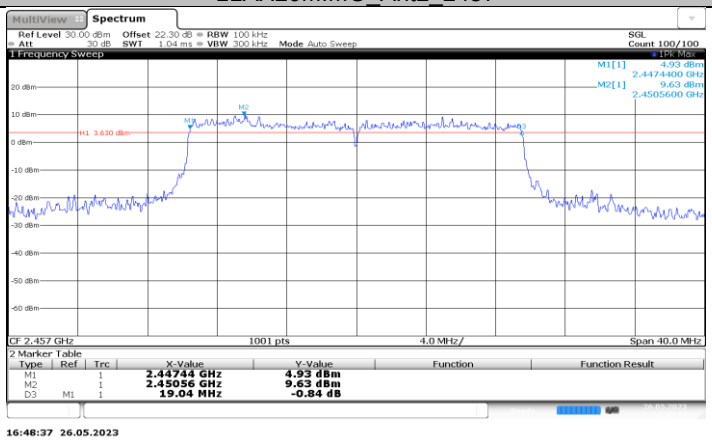
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant4_2437

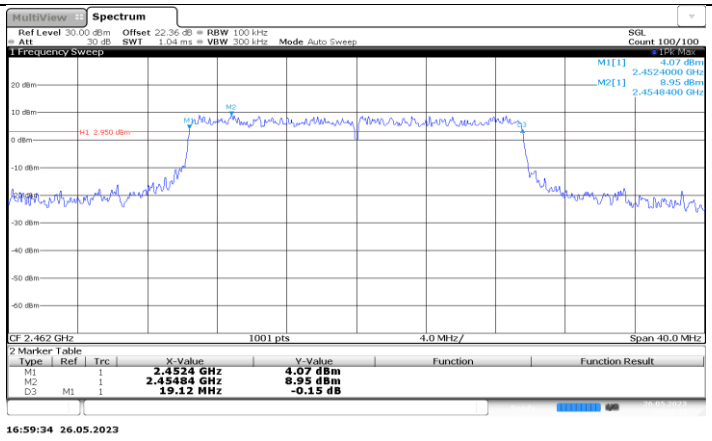


11AX20MIMO_Ant2_2457

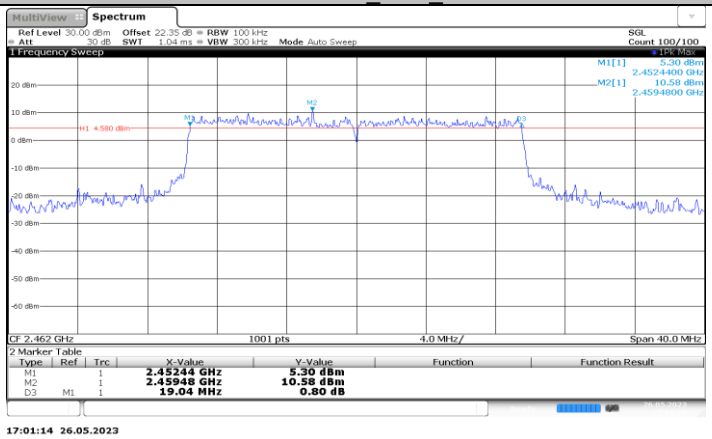


11AX20MIMO_Ant4_2457

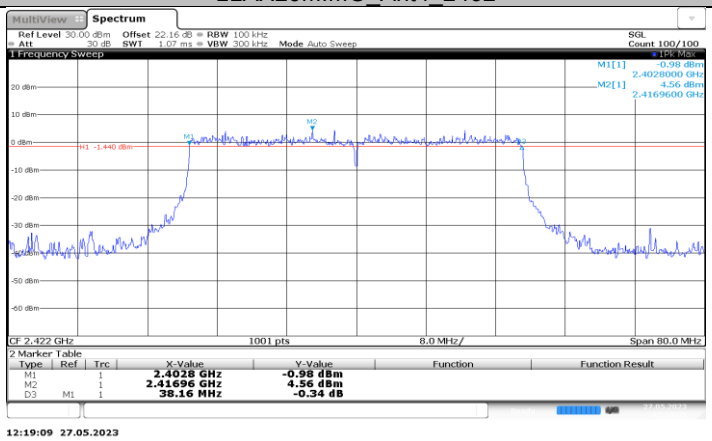
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2462

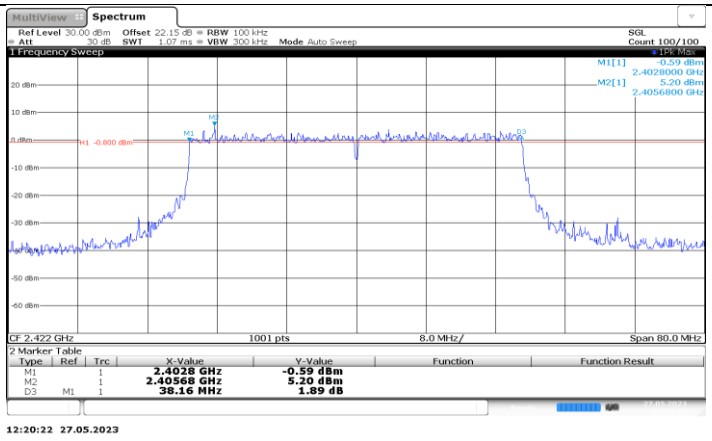


11AX20MIMO_Ant4_2462

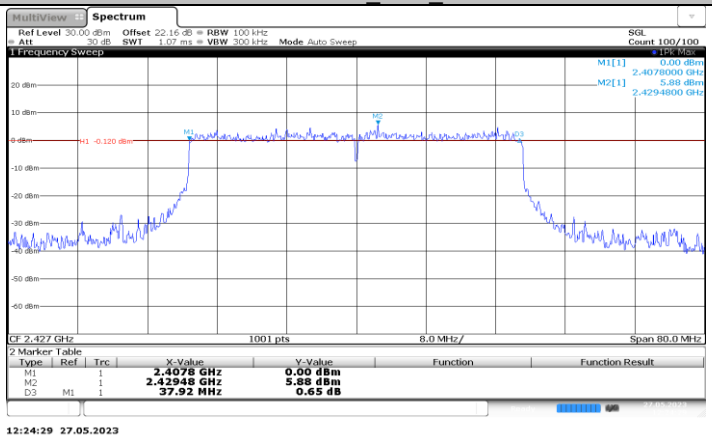


11AX40MIMO_Ant2_2422

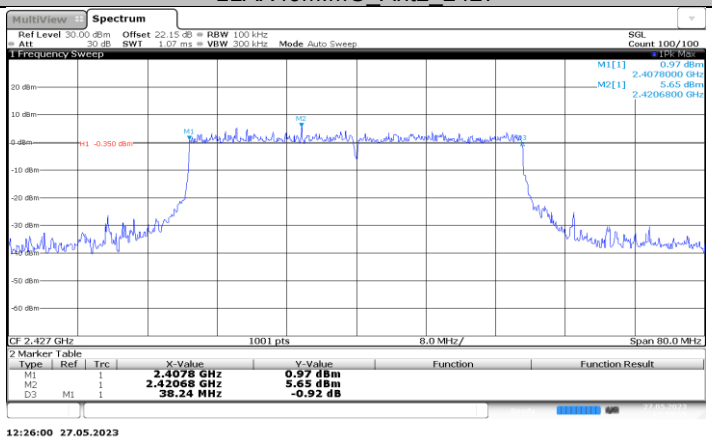
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2422

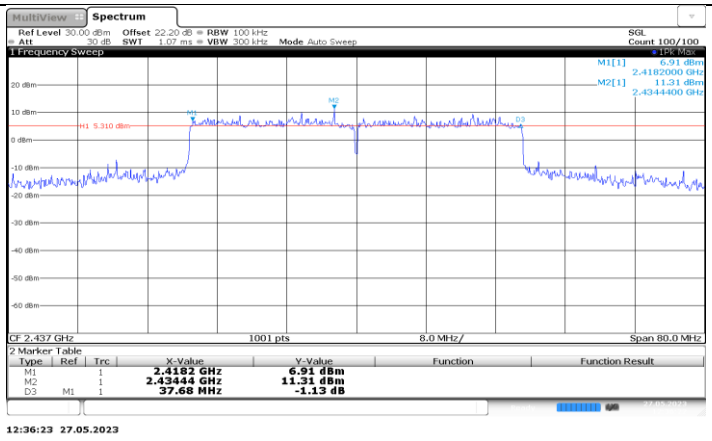


11AX40MIMO_Ant2_2427

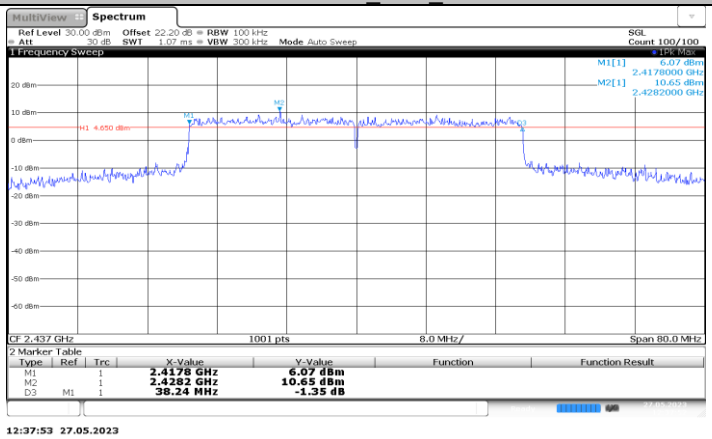


11AX40MIMO_Ant4_2427

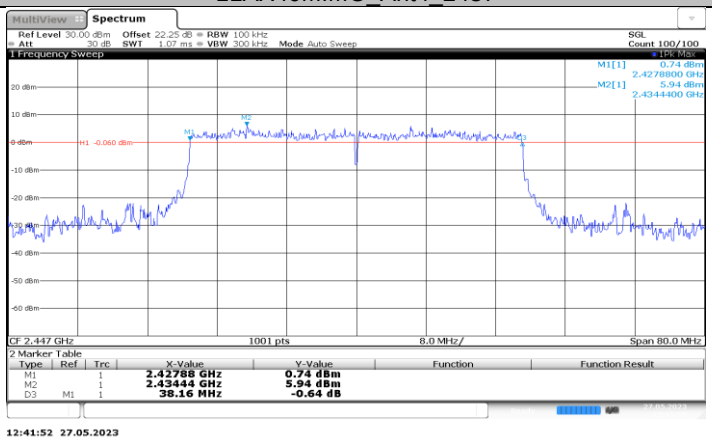
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant2_2437

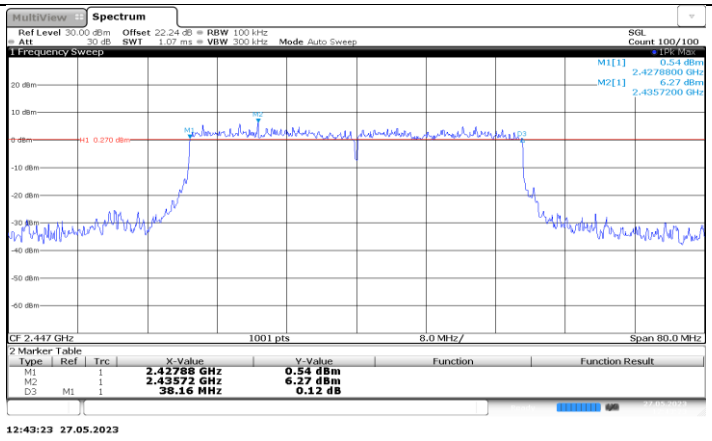


11AX40MIMO_Ant4_2437

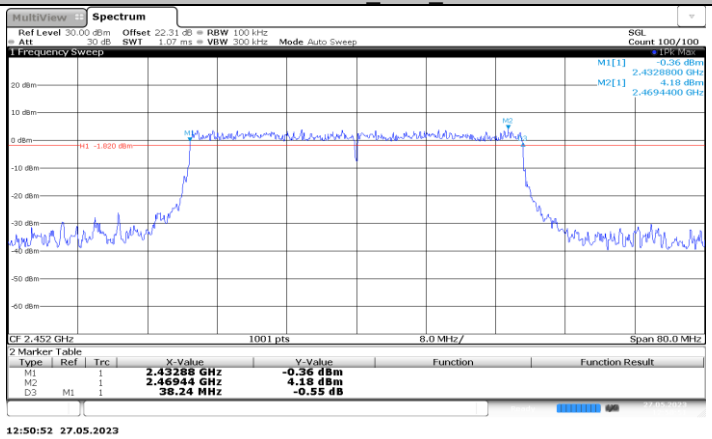


11AX40MIMO_Ant2_2447

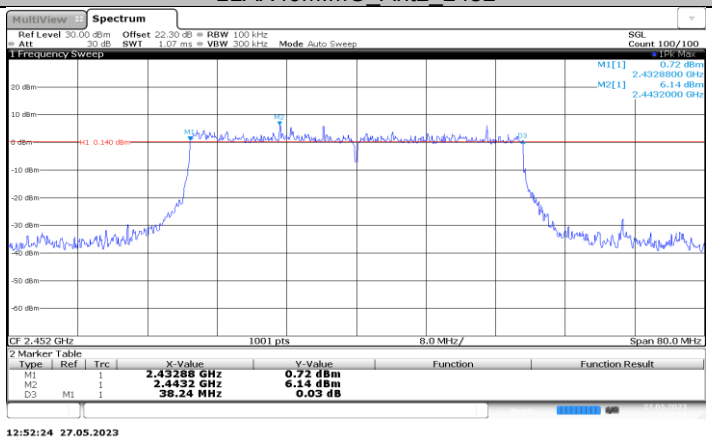
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2447



11AX40MIMO_Ant2_2452



11AX40MIMO_Ant4_2452

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

11.2. APPENDIX B: OCCUPIED CHANNEL BANDWIDTH

11.2.1. Test Result

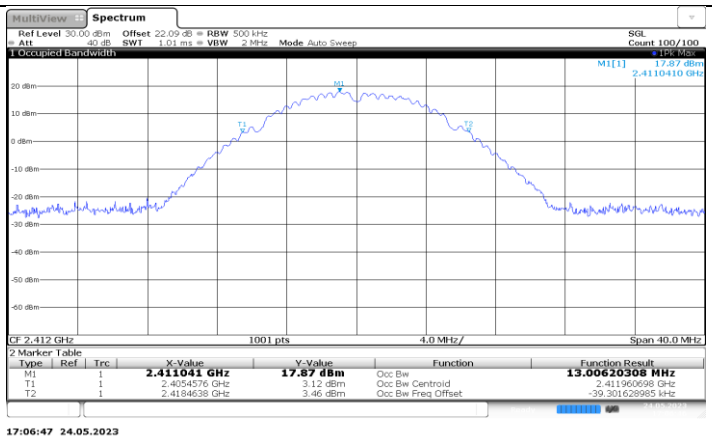
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11B-CDD	Ant2	2412	13.006	2405.4576	2418.4638	PASS
	Ant4	2412	13.027	2405.4904	2418.5175	PASS
	Ant2	2417	12.992	2410.4572	2423.4494	PASS
	Ant4	2417	13.057	2410.4707	2423.5279	PASS
	Ant2	2437	12.966	2430.4633	2443.4291	PASS
	Ant4	2437	12.604	2430.7079	2443.3120	PASS
	Ant2	2457	12.991	2450.4629	2463.4535	PASS
	Ant4	2457	12.637	2450.6576	2463.2941	PASS
	Ant2	2462	13.132	2455.3811	2468.5127	PASS
	Ant4	2462	12.644	2455.5939	2468.2382	PASS
11G-CDD	Ant2	2412	17.748	2403.0724	2420.8206	PASS
	Ant4	2412	16.892	2403.5192	2420.4108	PASS
	Ant2	2417	17.132	2408.3639	2425.4963	PASS
	Ant4	2417	16.869	2408.5257	2425.3948	PASS
	Ant2	2437	17.575	2428.2100	2445.7853	PASS
	Ant4	2437	17.131	2428.4034	2445.5348	PASS
	Ant2	2457	17.136	2448.3400	2465.4763	PASS
	Ant4	2457	16.996	2448.4575	2465.4534	PASS
	Ant2	2462	17.475	2453.1735	2470.6483	PASS
	Ant4	2462	17.062	2453.3992	2470.4608	PASS
11N20MIMO	Ant2	2412	18.375	2402.7789	2421.1543	PASS
	Ant4	2412	18.186	2402.8932	2421.0787	PASS
	Ant2	2417	18.4	2407.7852	2426.1854	PASS
	Ant4	2417	18.195	2407.8175	2426.0121	PASS
	Ant2	2437	26.91	2423.7681	2450.6779	PASS
	Ant4	2437	26.478	2424.4082	2450.8860	PASS
	Ant2	2457	26.443	2444.0409	2470.4838	PASS
	Ant4	2457	25.839	2444.2006	2470.0393	PASS
	Ant2	2462	19.513	2452.2985	2471.8120	PASS
	Ant4	2462	18.742	2452.5395	2471.2810	PASS
11N40MIMO	Ant2	2422	37.453	2403.2886	2440.7414	PASS
	Ant4	2422	37.327	2403.4670	2440.7937	PASS
	Ant2	2427	37.597	2408.2021	2445.7993	PASS
	Ant4	2427	37.333	2408.3637	2445.6971	PASS
	Ant2	2437	52.234	2410.9442	2463.1777	PASS
	Ant4	2437	51.258	2412.5212	2463.7787	PASS
	Ant2	2447	42.097	2426.6022	2468.6996	PASS
	Ant4	2447	39.57	2427.1980	2466.7682	PASS
	Ant2	2452	38.046	2432.9131	2470.9593	PASS
	Ant4	2452	37.591	2433.1361	2470.7269	PASS
11AX20MIMO	Ant2	2412	19.19	2402.3570	2421.5470	PASS
	Ant4	2412	19.242	2402.3552	2421.5971	PASS
	Ant2	2417	19.258	2407.3703	2426.6279	PASS
	Ant4	2417	19.177	2407.3645	2426.5417	PASS
	Ant2	2437	19.187	2427.3662	2446.5528	PASS
	Ant4	2437	19.296	2427.3289	2446.6246	PASS
	Ant2	2457	19.382	2447.2945	2466.6766	PASS
	Ant4	2457	19.194	2447.3677	2466.5615	PASS
	Ant2	2462	19.37	2452.2834	2471.6537	PASS
	Ant4	2462	19.234	2452.3417	2471.5754	PASS
11AX40MIMO	Ant2	2422	38.447	2402.7091	2441.1557	PASS
	Ant4	2422	38.459	2402.8136	2441.2730	PASS
	Ant2	2427	38.299	2407.7794	2446.0782	PASS

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

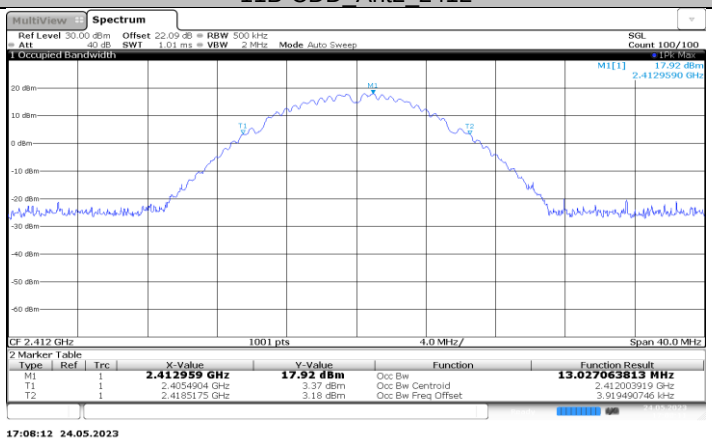
	Ant4	2427	38.285	2407.8468	2446.1321	PASS
	Ant2	2437	38.242	2417.8273	2456.0696	PASS
	Ant4	2437	38.348	2417.7573	2456.1050	PASS
	Ant2	2447	38.429	2427.7623	2466.1909	PASS
	Ant4	2447	38.386	2427.6555	2466.0419	PASS
	Ant2	2452	38.387	2432.7112	2471.0981	PASS
	Ant4	2452	38.325	2432.6997	2471.0247	PASS

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

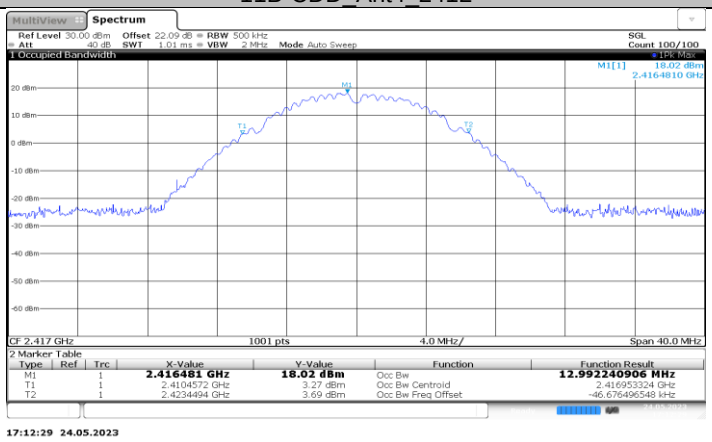
11.2.2. Test Graphs



11B-CDD_Ant2_2412

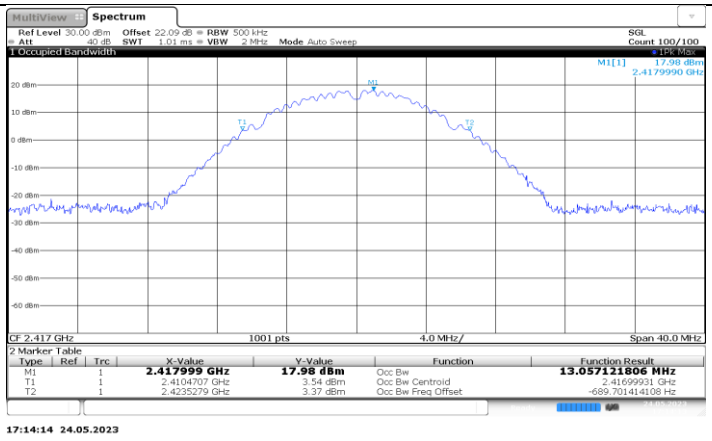


11B-CDD_Ant4_2412

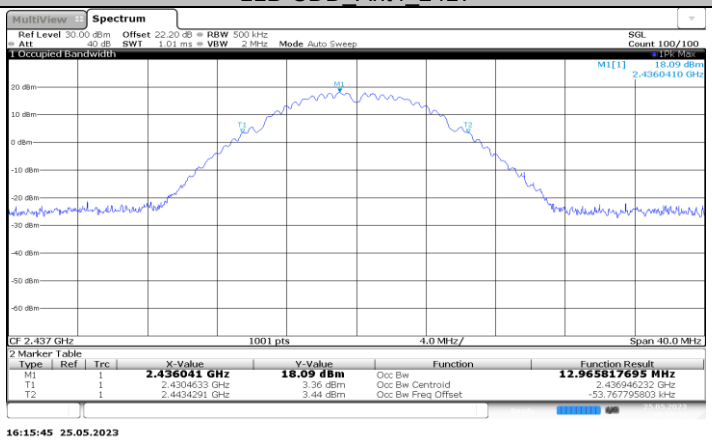


11B-CDD_Ant2_2417

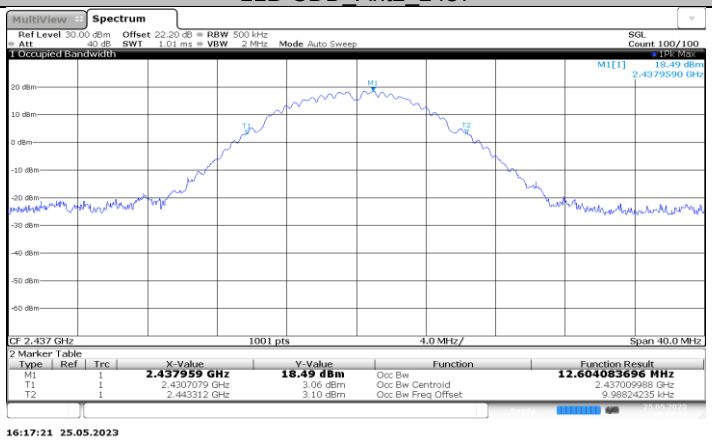
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2417

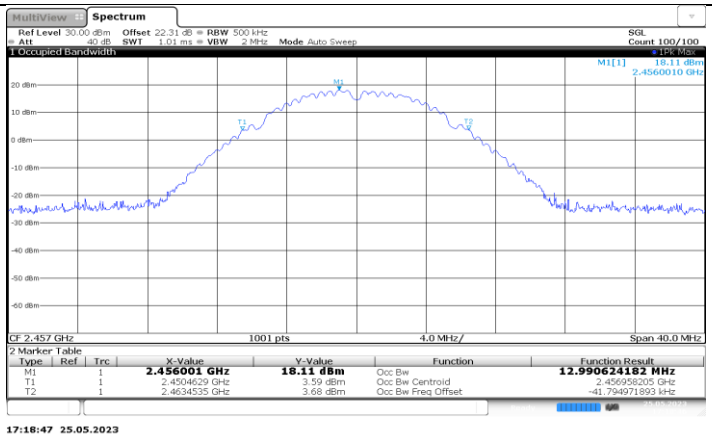


11B-CDD_Ant2_2437

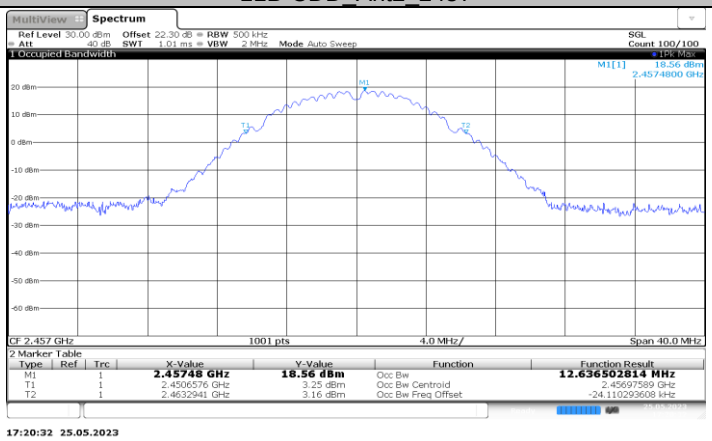


11B-CDD_Ant4_2437

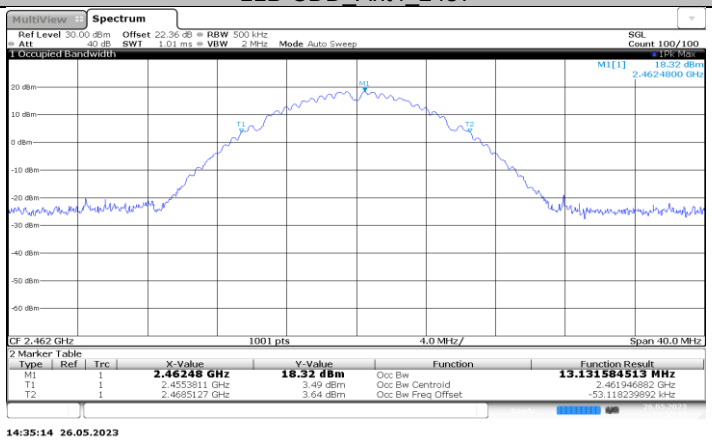
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant2_2457

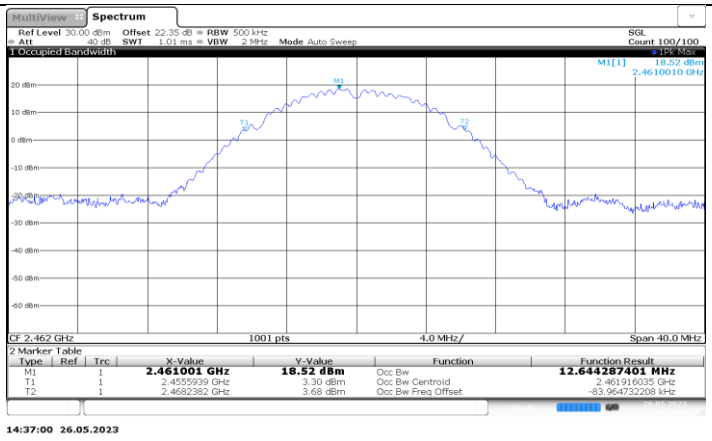


11B-CDD_Ant4_2457

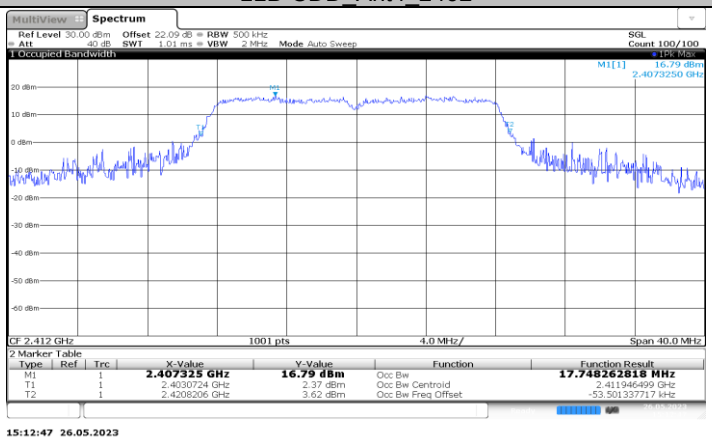


11B-CDD_Ant2_2462

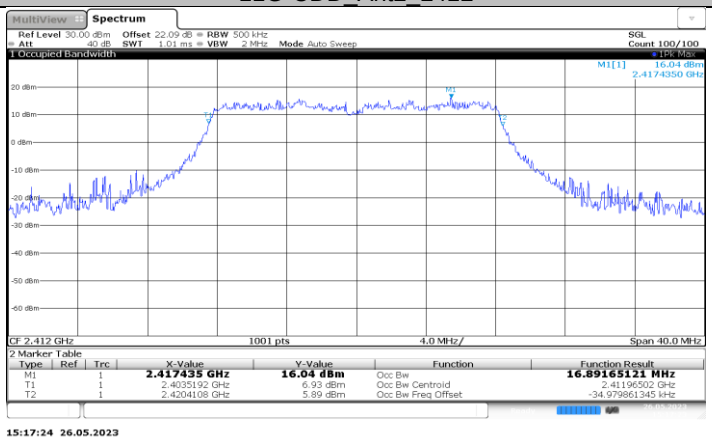
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2462

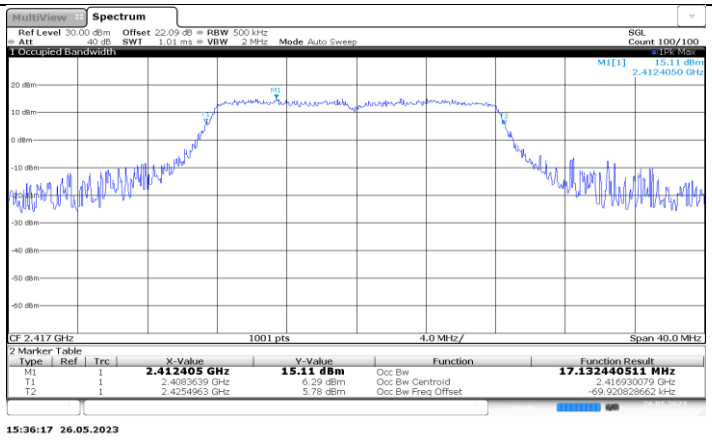


11G-CDD_Ant2_2412

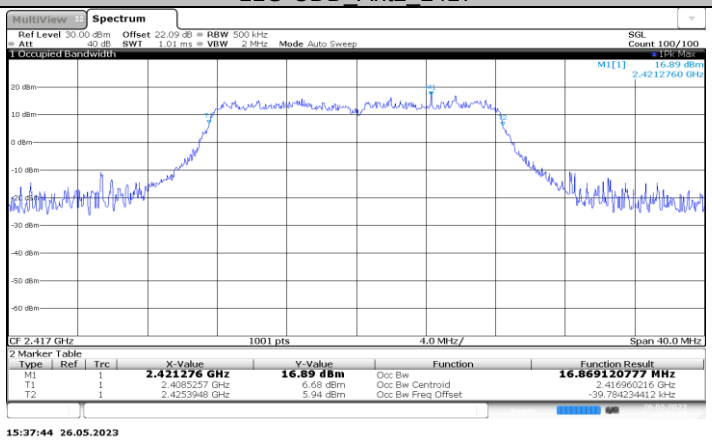


11G-CDD_Ant4_2412

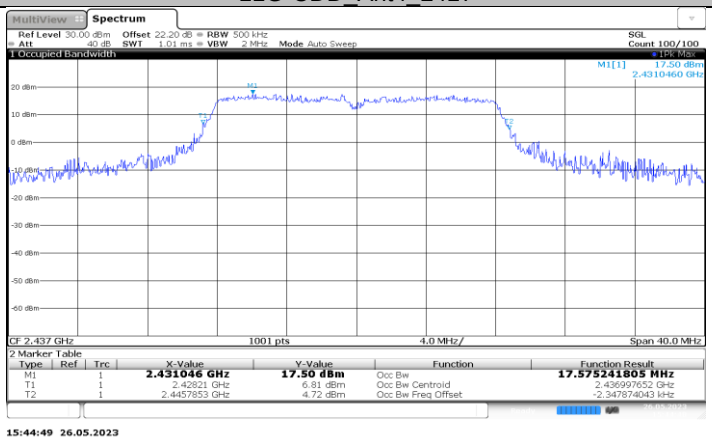
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant2_2417

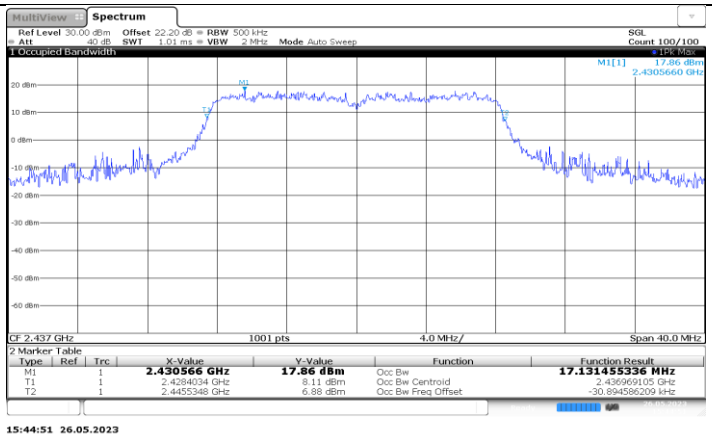


11G-CDD_Ant4_2417

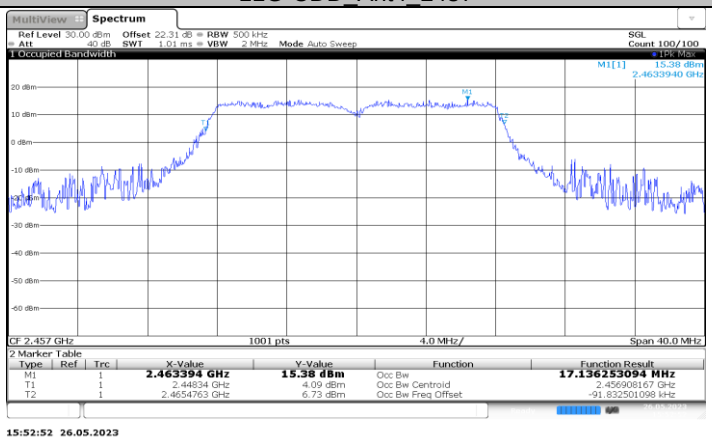


11G-CDD_Ant2_2437

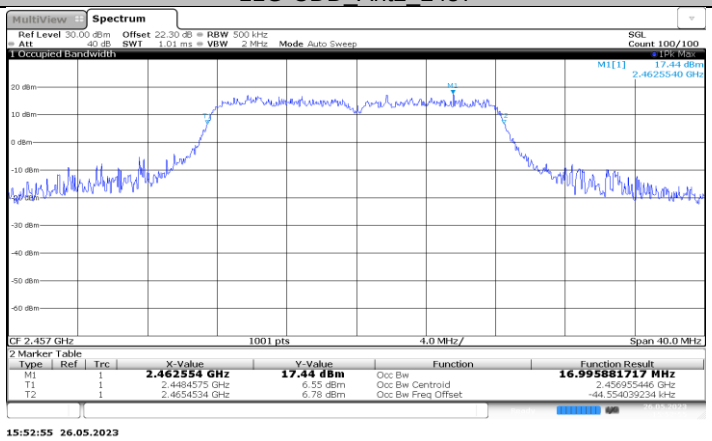
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant4_2437

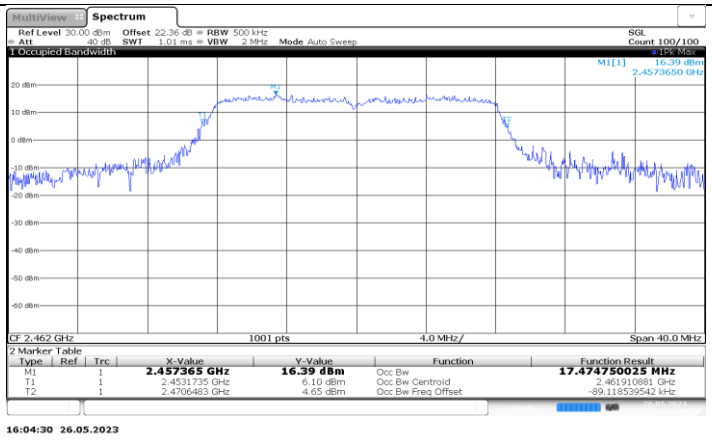


11G-CDD_Ant2_2457

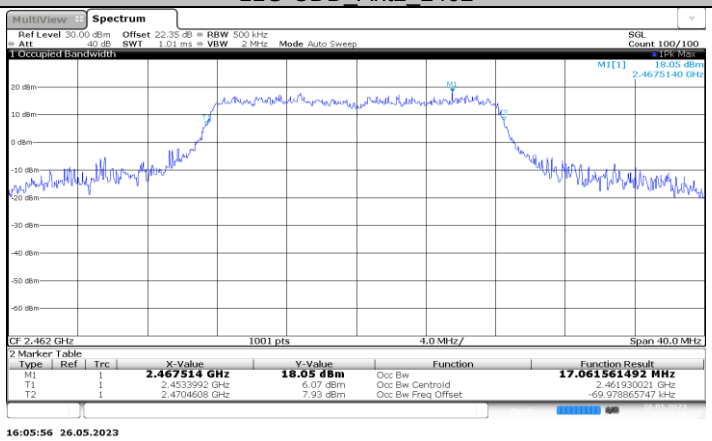


11G-CDD_Ant4_2457

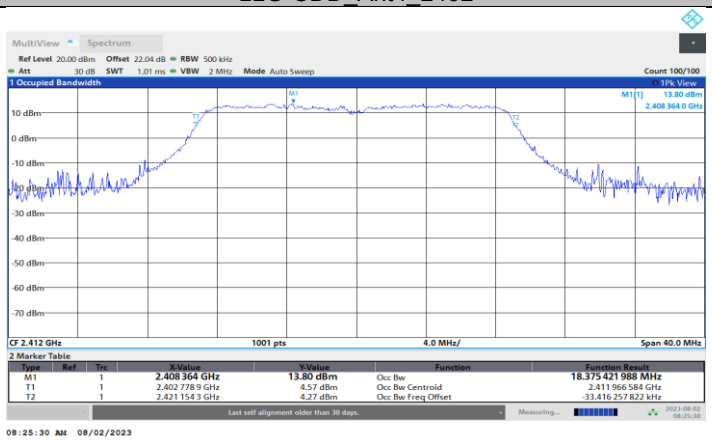
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant2_2462

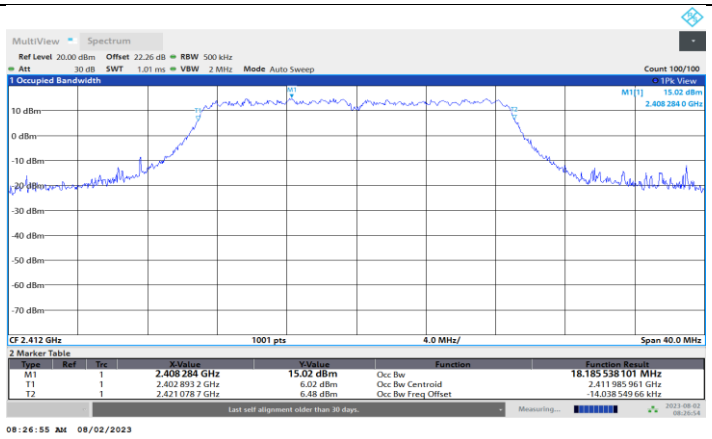


11G-CDD_Ant4_2462

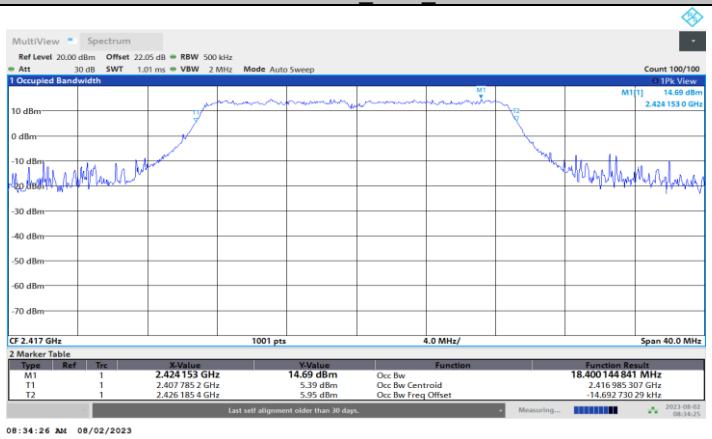


11N20MIMO_Ant2_2412

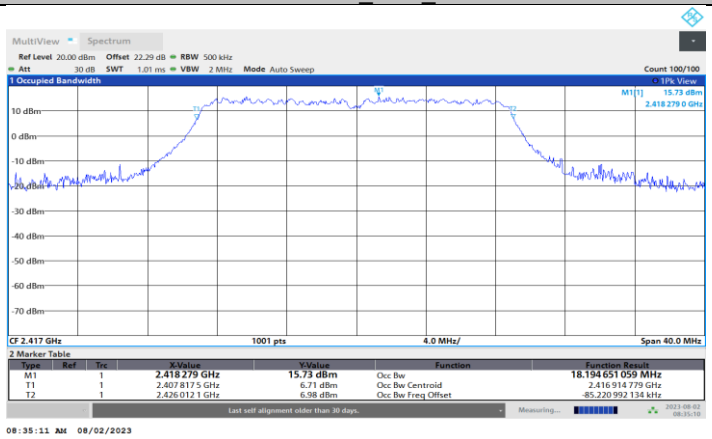
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N20MIMO_Ant4_2412

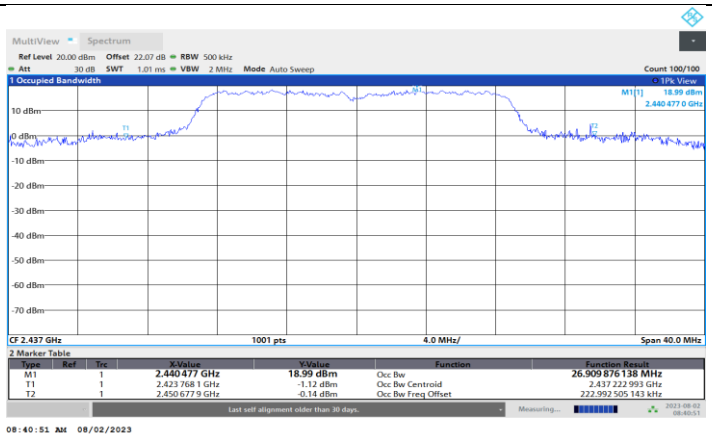


11N20MIMO_Ant2_2417

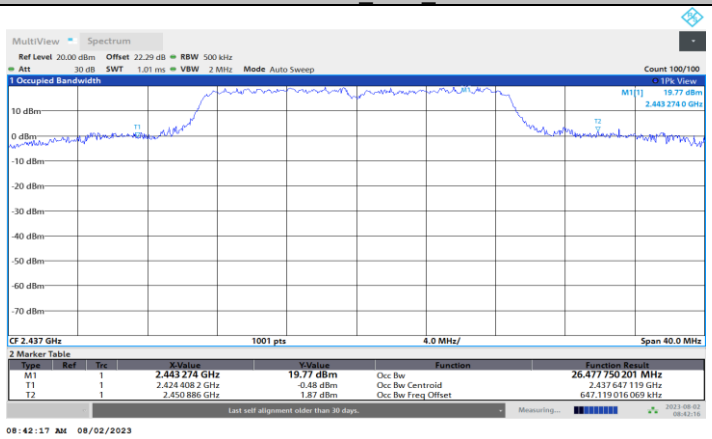


11N20MIMO_Ant4_2417

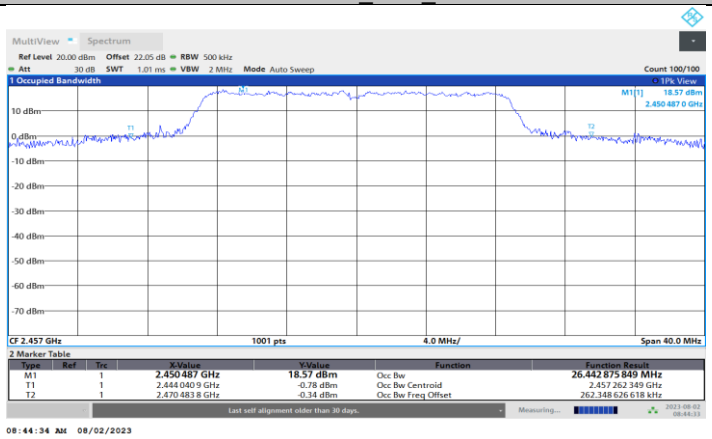
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N20MIMO_Ant2_2437

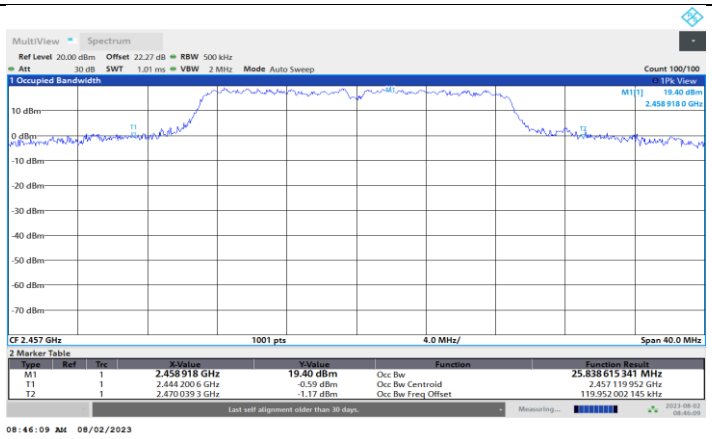


11N20MIMO_Ant4_2437

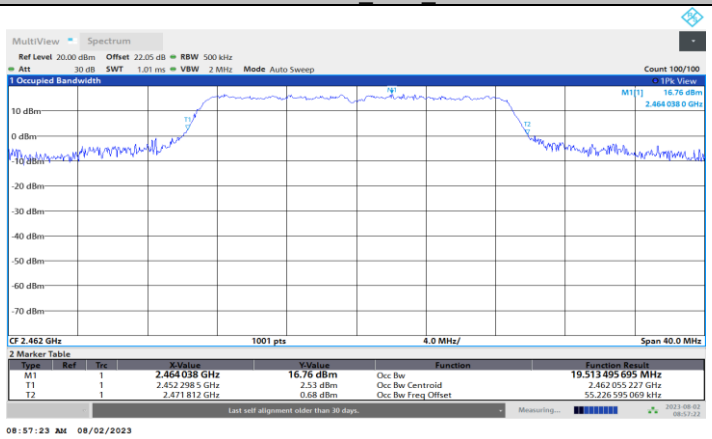


11N20MIMO_Ant2_2457

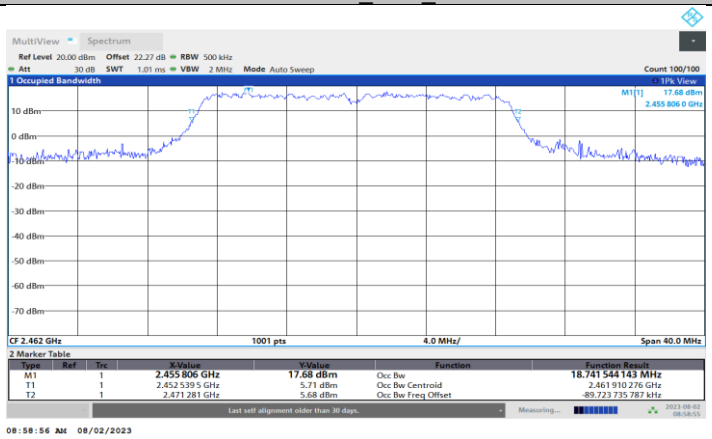
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N20MIMO_Ant4_2457

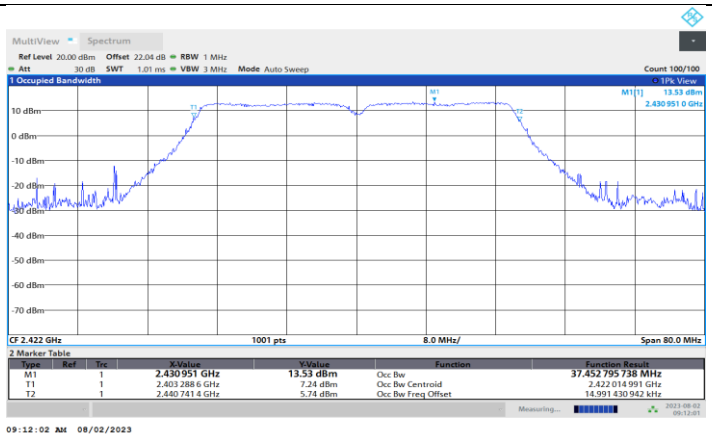


11N20MIMO_Ant2_2462

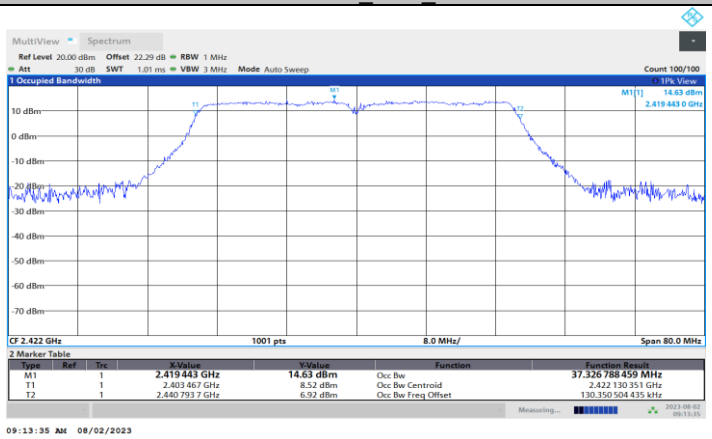


11N20MIMO_Ant4_2462

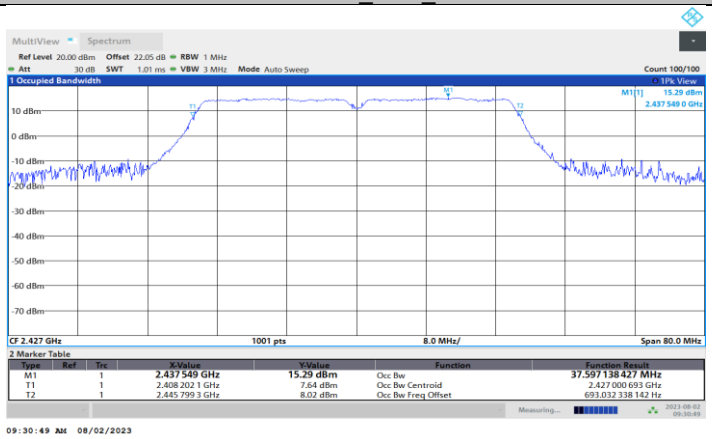
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N40MIMO_Ant2_2422

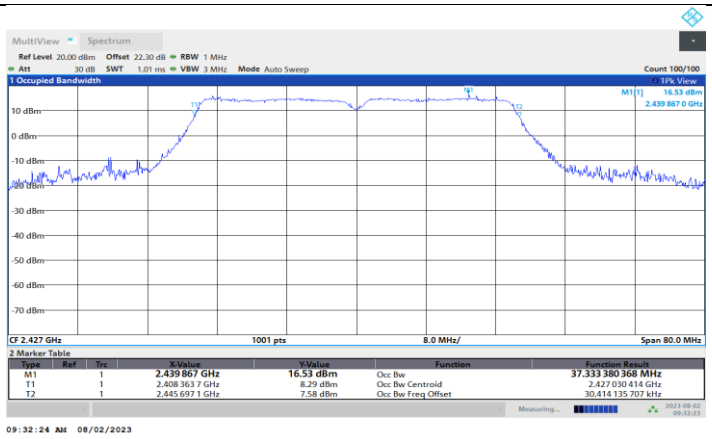


11N40MIMO_Ant4_2422

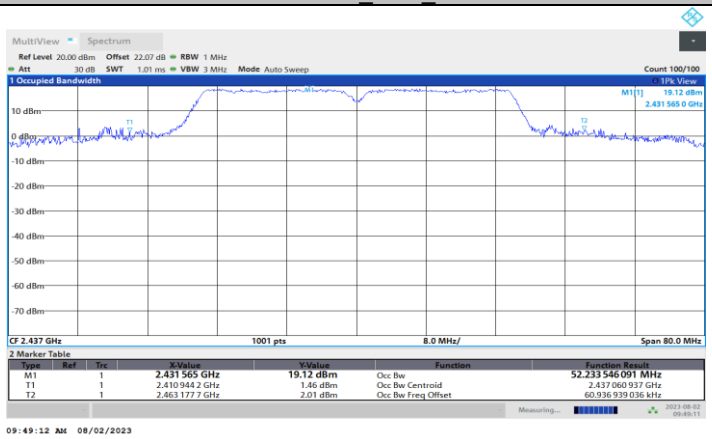


11N40MIMO_Ant2_2427

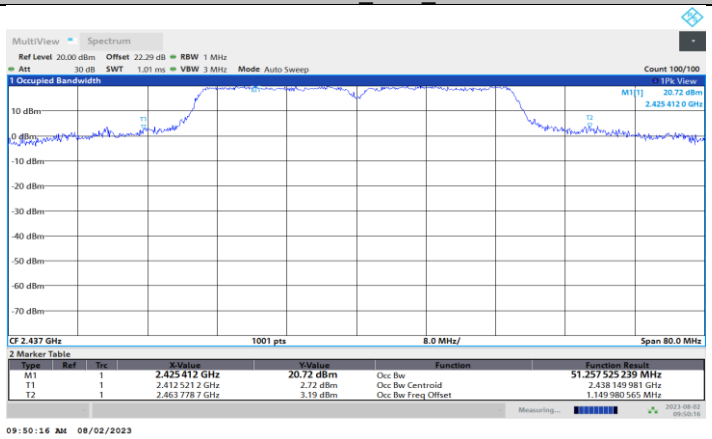
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N40MIMO_Ant4_2427

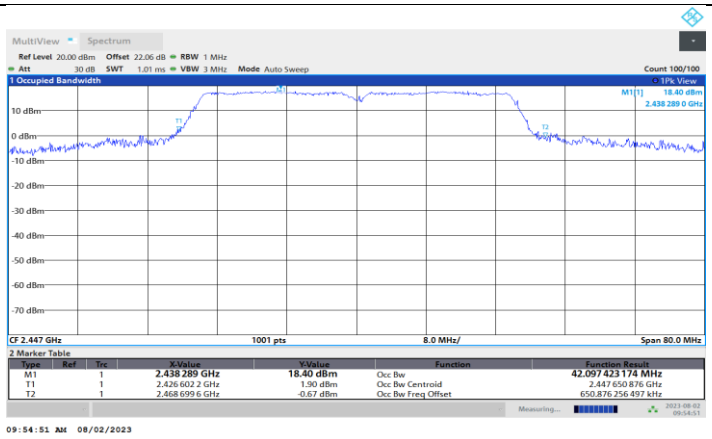


11N40MIMO_Ant2_2437

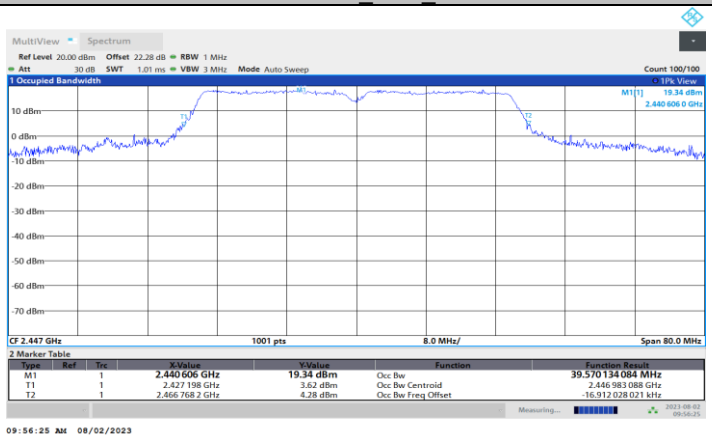


11N40MIMO_Ant4_2437

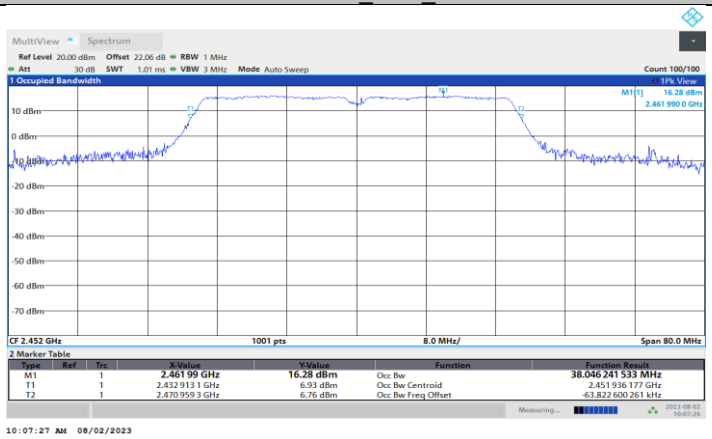
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N40MIMO_Ant2_2447

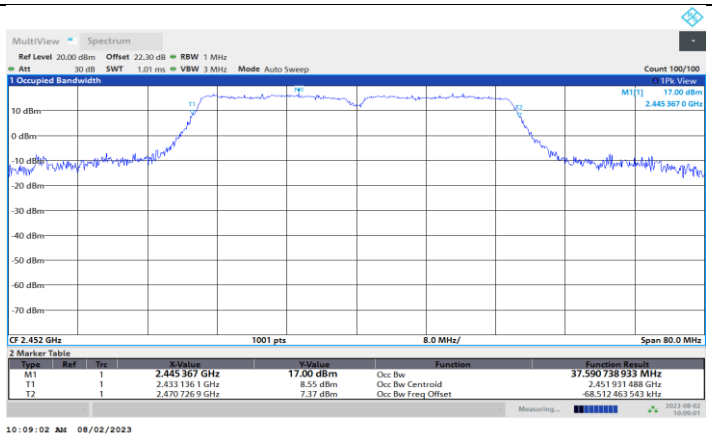


11N40MIMO_Ant4_2447

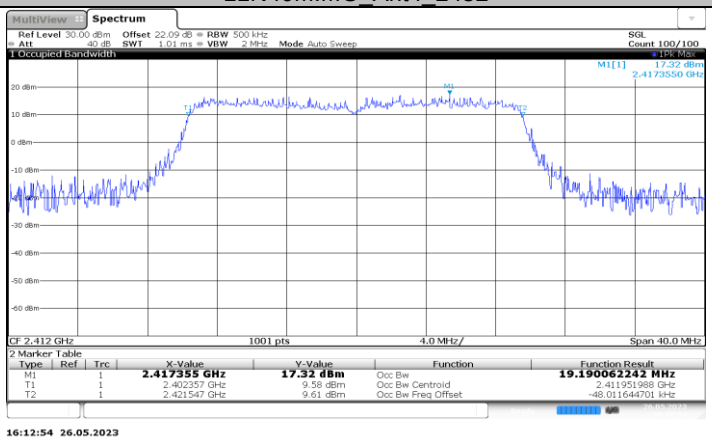


11N40MIMO_Ant2_2452

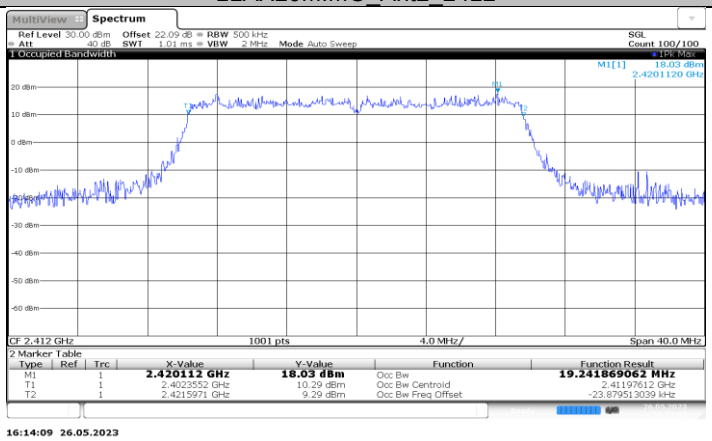
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11N40MIMO_Ant4_2452

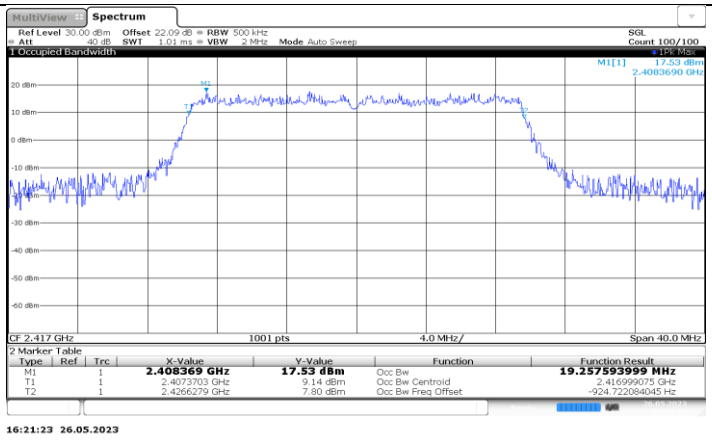


11AX20MIMO_Ant2_2412

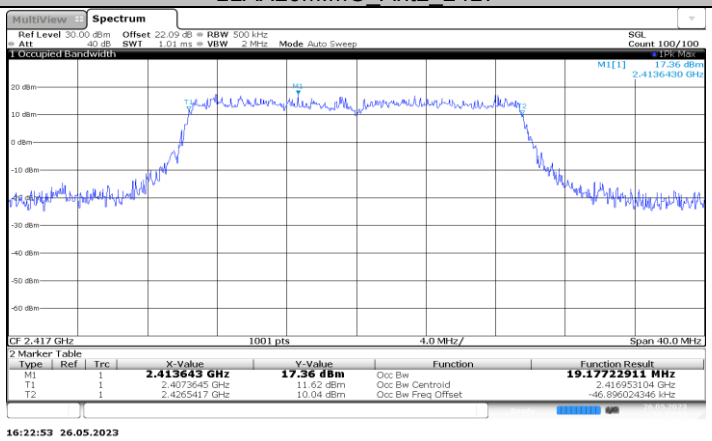


11AX20MIMO_Ant4_2412

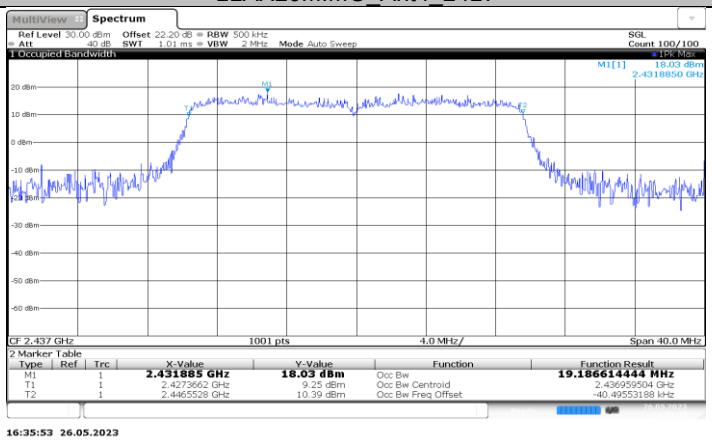
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2417

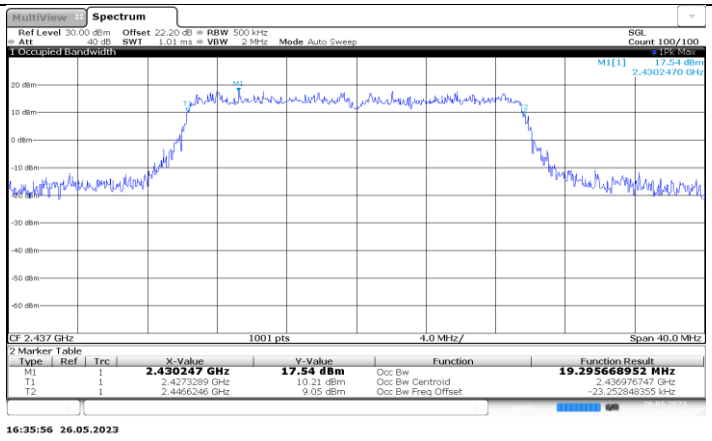


11AX20MIMO_Ant4_2417

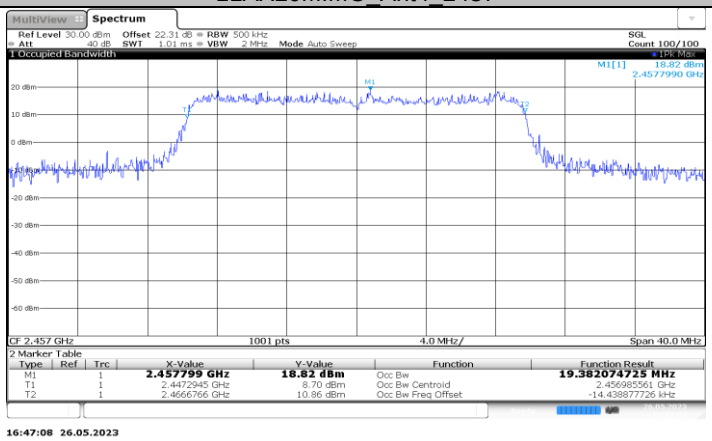


11AX20MIMO_Ant2_2437

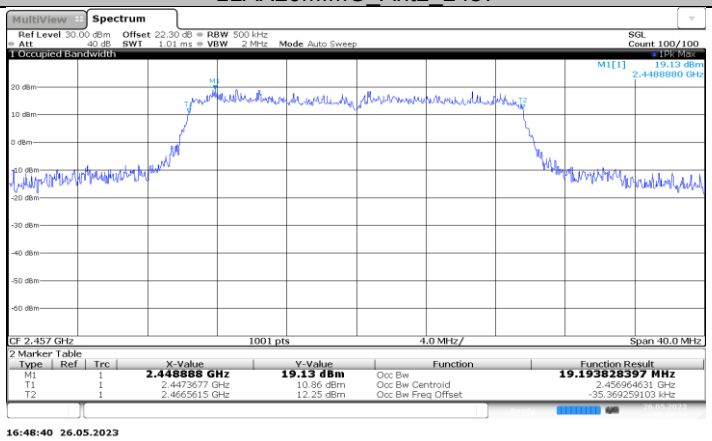
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant4_2437

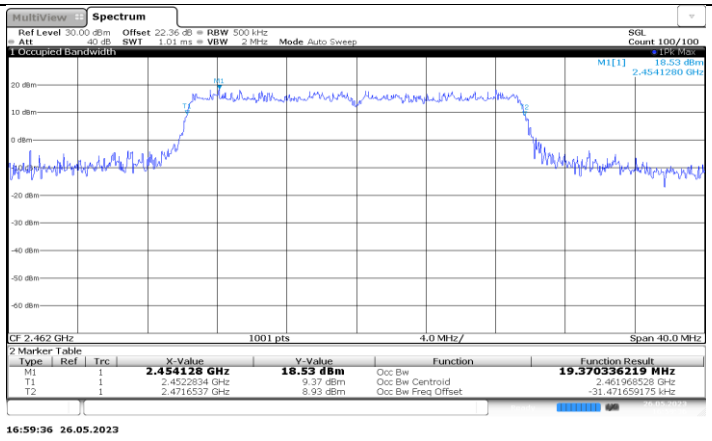


11AX20MIMO_Ant2_2457

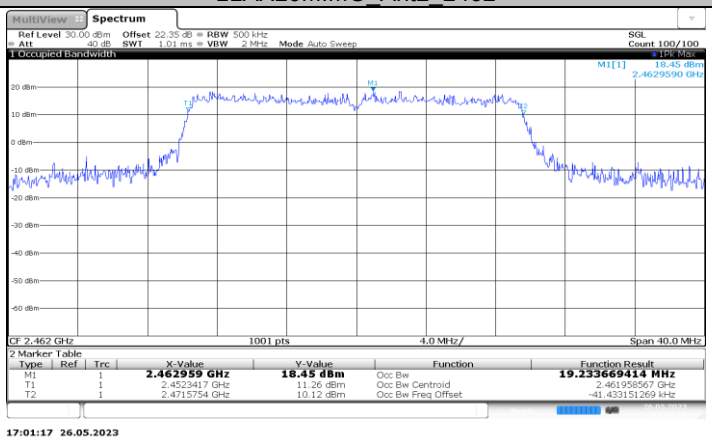


11AX20MIMO_Ant4_2457

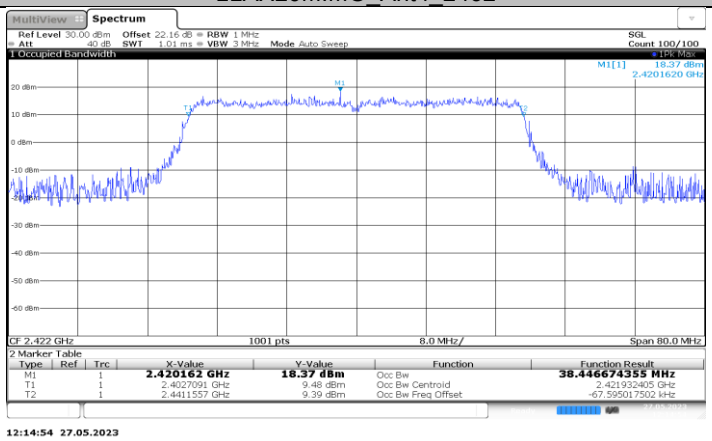
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2462

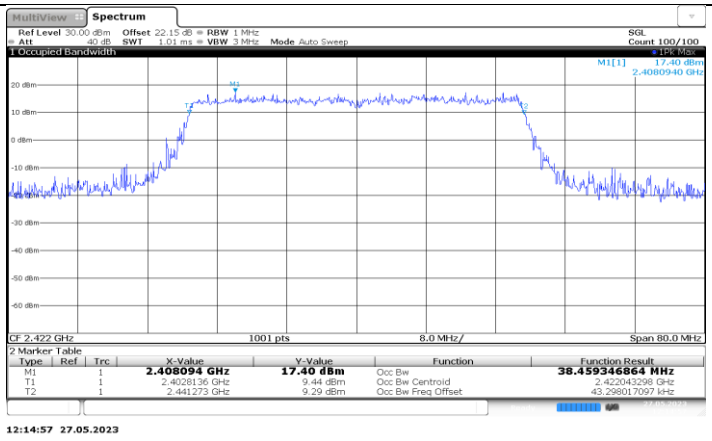


11AX20MIMO_Ant4_2462

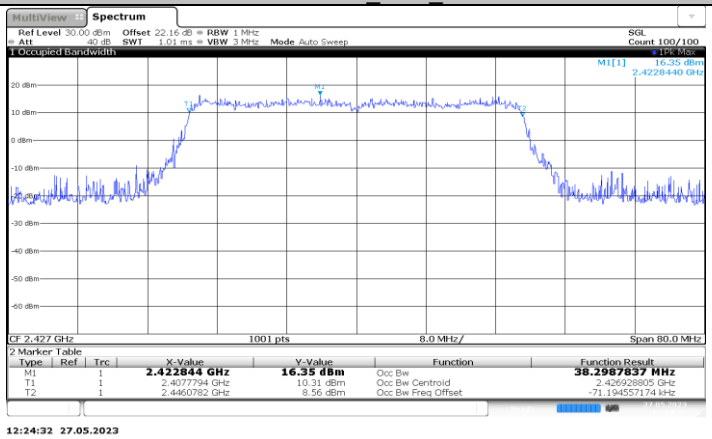


11AX40MIMO_Ant2_2422

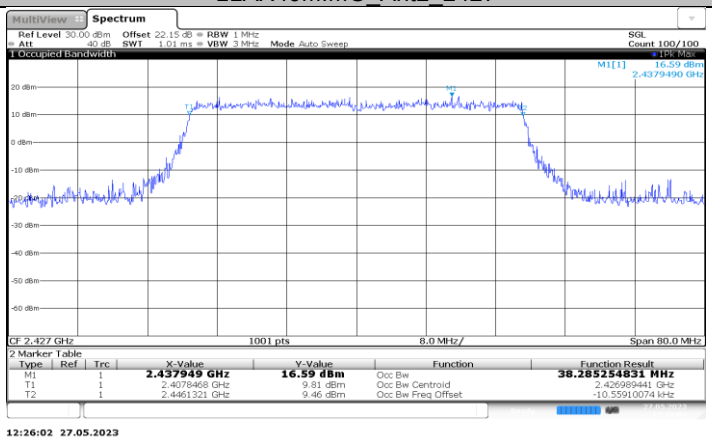
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2422

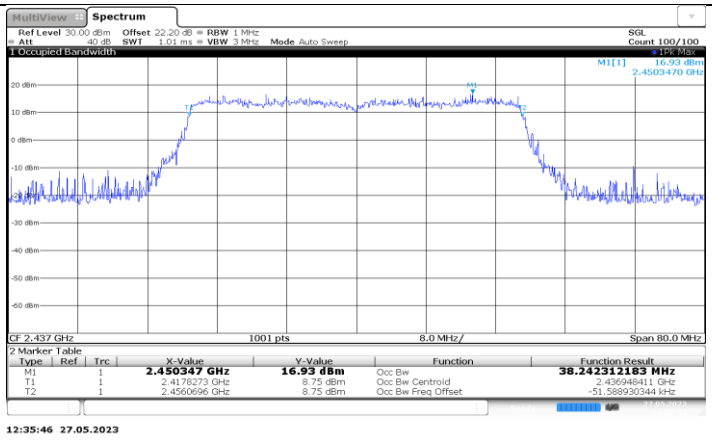


11AX40MIMO_Ant2_2427

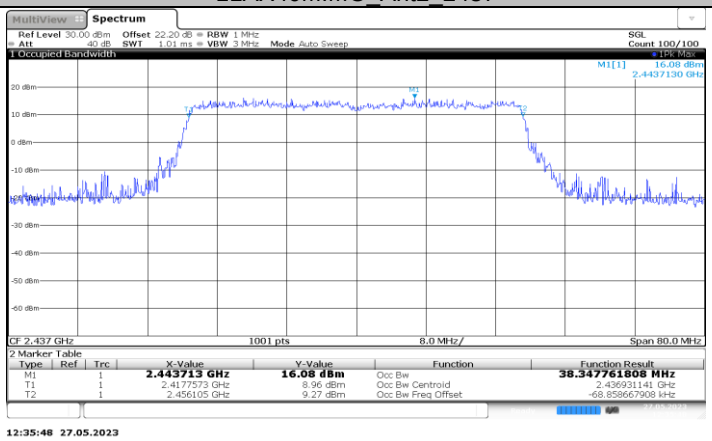


11AX40MIMO_Ant4_2427

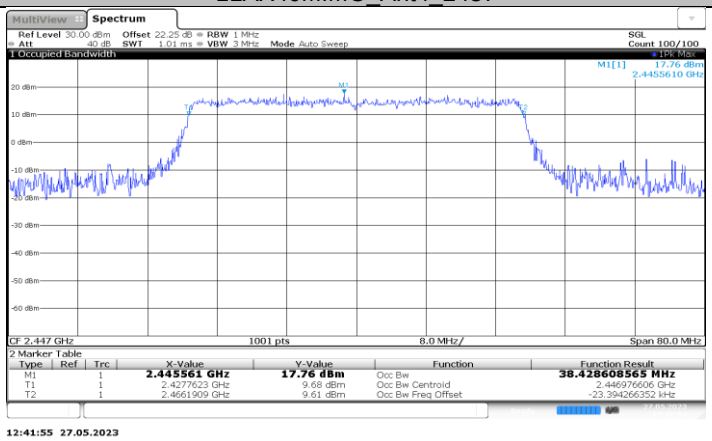
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant2_2437

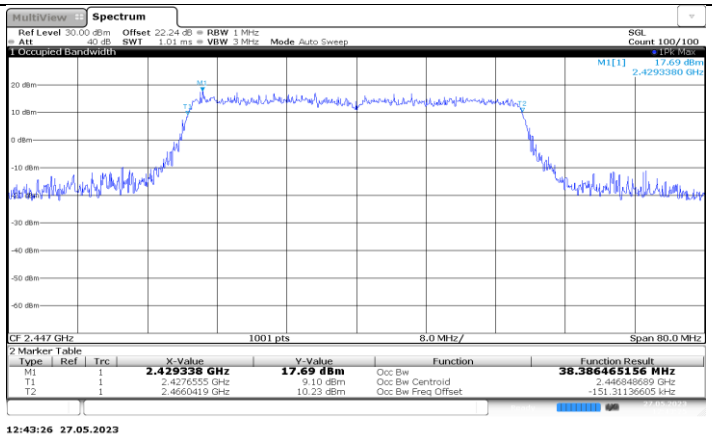


11AX40MIMO_Ant4_2437

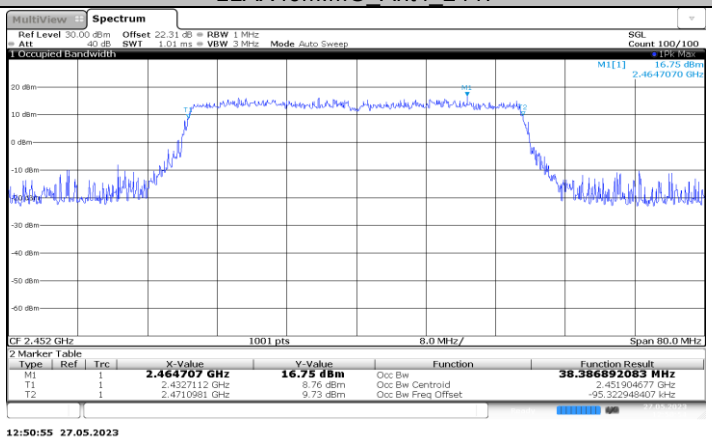


11AX40MIMO_Ant2_2447

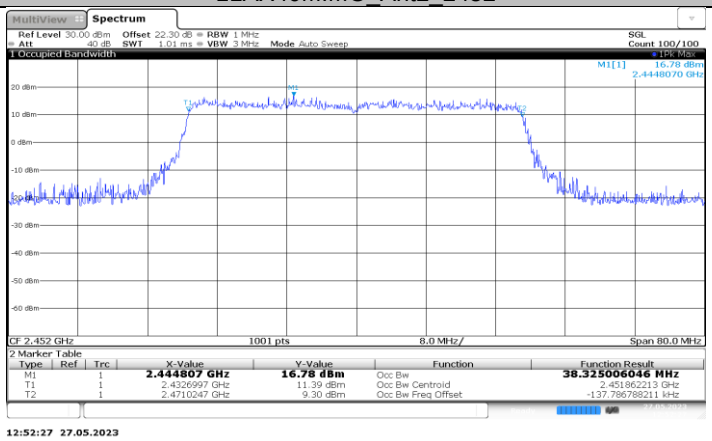
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2447



11AX40MIMO_Ant2_2452



11AX40MIMO_Ant4_2452

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

11.3. APPENDIX C: MAXIMUM CONDUCTED OUTPUT POWER

11.3.1. Test Result

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B-CDD	Ant2	2412	25.48	≤30.00	PASS
	Ant4	2412	25.24	≤30.00	PASS
	total	2412	28.37	≤30.00	PASS
	Ant2	2417	25.61	≤30.00	PASS
	Ant4	2417	25.43	≤30.00	PASS
	total	2417	28.53	≤30.00	PASS
	Ant2	2437	25.64	≤30.00	PASS
	Ant4	2437	25.87	≤30.00	PASS
	total	2437	28.77	≤30.00	PASS
	Ant2	2457	25.82	≤30.00	PASS
	Ant4	2457	26.03	≤30.00	PASS
	total	2457	28.94	≤30.00	PASS
	Ant2	2462	25.61	≤30.00	PASS
	Ant4	2462	25.99	≤30.00	PASS
	total	2462	28.81	≤30.00	PASS
11G-CDD	Ant2	2412	21.97	≤30.00	PASS
	Ant4	2412	21.44	≤30.00	PASS
	total	2412	24.72	≤30.00	PASS
	Ant2	2417	22.20	≤30.00	PASS
	Ant4	2417	21.55	≤30.00	PASS
	total	2417	24.90	≤30.00	PASS
	Ant2	2437	26.01	≤30.00	PASS
	Ant4	2437	25.44	≤30.00	PASS
	total	2437	28.74	≤30.00	PASS
	Ant2	2457	25.65	≤30.00	PASS
	Ant4	2457	25.70	≤30.00	PASS
	total	2457	28.69	≤30.00	PASS
	Ant2	2462	23.24	≤30.00	PASS
	Ant4	2462	23.08	≤30.00	PASS
	total	2462	26.17	≤30.00	PASS
11N20MIMO	Ant2	2412	22.22	≤30.00	PASS
	Ant4	2412	22.32	≤30.00	PASS
	total	2412	25.28	≤30.00	PASS
	Ant2	2417	22.81	≤30.00	PASS
	Ant4	2417	22.76	≤30.00	PASS
	total	2417	25.80	≤30.00	PASS
	Ant2	2437	26.33	≤30.00	PASS
	Ant4	2437	26.86	≤30.00	PASS
	total	2437	29.61	≤30.00	PASS
	Ant2	2457	26.38	≤30.00	PASS
	Ant4	2457	26.37	≤30.00	PASS
	total	2457	29.39	≤30.00	PASS
	Ant2	2462	25.06	≤30.00	PASS
	Ant4	2462	25.10	≤30.00	PASS
	total	2462	28.09	≤30.00	PASS
11N40MIMO	Ant2	2422	20.82	≤30.00	PASS
	Ant4	2422	21.30	≤30.00	PASS
	total	2422	24.08	≤30.00	PASS
	Ant2	2427	22.91	≤30.00	PASS
	Ant4	2427	22.52	≤30.00	PASS
	total	2427	25.73	≤30.00	PASS
	Ant2	2437	25.40	≤30.00	PASS
	Ant4	2437	26.26	≤30.00	PASS

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

	total	2437	28.86	≤30.00	PASS
	Ant2	2447	23.68	≤30.00	PASS
	Ant4	2447	23.56	≤30.00	PASS
	total	2447	26.63	≤30.00	PASS
	Ant2	2452	22.75	≤30.00	PASS
	Ant4	2452	23.19	≤30.00	PASS
	total	2452	25.99	≤30.00	PASS
11AX20MIMO	Ant2	2412	21.68	≤30.00	PASS
	Ant4	2412	21.95	≤30.00	PASS
	total	2412	24.83	≤30.00	PASS
	Ant2	2417	22.11	≤30.00	PASS
	Ant4	2417	21.77	≤30.00	PASS
	total	2417	24.95	≤30.00	PASS
	Ant2	2437	25.60	≤30.00	PASS
	Ant4	2437	25.87	≤30.00	PASS
	total	2437	28.75	≤30.00	PASS
	Ant2	2457	23.33	≤30.00	PASS
	Ant4	2457	22.98	≤30.00	PASS
	total	2457	26.17	≤30.00	PASS
	Ant2	2462	23.34	≤30.00	PASS
	Ant4	2462	23.21	≤30.00	PASS
	total	2462	26.29	≤30.00	PASS
11AX40MIMO	Ant2	2422	20.41	≤30.00	PASS
	Ant4	2422	20.31	≤30.00	PASS
	total	2422	23.37	≤30.00	PASS
	Ant2	2427	20.88	≤30.00	PASS
	Ant4	2427	20.98	≤30.00	PASS
	total	2427	23.94	≤30.00	PASS
	Ant2	2437	25.63	≤30.00	PASS
	Ant4	2437	26.04	≤30.00	PASS
	total	2437	28.85	≤30.00	PASS
	Ant2	2447	22.22	≤30.00	PASS
	Ant4	2447	21.72	≤30.00	PASS
	total	2447	24.99	≤30.00	PASS
	Ant2	2452	21.19	≤30.00	PASS
	Ant4	2452	21.03	≤30.00	PASS
	total	2452	24.12	≤30.00	PASS

Note: 1. Conducted Power=Meas. Level+ Correction Factor
2. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

11.4. APPENDIX D: MAXIMUM POWER SPECTRAL DENSITY

11.4.1. Test Result

Test Mode	Antenna	Channel	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
11B-CDD	Ant2	2412	-2.3	≤8.00	PASS
	Ant4	2412	-2.47	≤8.00	PASS
	total	2412	0.63	≤8.00	PASS
	Ant2	2417	-2.66	≤8.00	PASS
	Ant4	2417	-2.41	≤8.00	PASS
	total	2417	0.48	≤8.00	PASS
	Ant2	2437	-2.12	≤8.00	PASS
	Ant4	2437	-1.69	≤8.00	PASS
	total	2437	1.11	≤8.00	PASS
	Ant2	2457	-2.52	≤8.00	PASS
	Ant4	2457	0.69	≤8.00	PASS
	total	2457	2.39	≤8.00	PASS
	Ant2	2462	-2.07	≤8.00	PASS
	Ant4	2462	-1.89	≤8.00	PASS
	total	2462	1.03	≤8.00	PASS
11G-CDD	Ant2	2412	-10.55	≤8.00	PASS
	Ant4	2412	-10.97	≤8.00	PASS
	total	2412	-7.74	≤8.00	PASS
	Ant2	2417	-9.83	≤8.00	PASS
	Ant4	2417	-10.39	≤8.00	PASS
	total	2417	-7.09	≤8.00	PASS
	Ant2	2437	-6.35	≤8.00	PASS
	Ant4	2437	-6.6	≤8.00	PASS
	total	2437	-3.46	≤8.00	PASS
	Ant2	2457	-6.31	≤8.00	PASS
	Ant4	2457	-6.28	≤8.00	PASS
	total	2457	-3.28	≤8.00	PASS
	Ant2	2462	-8.79	≤8.00	PASS
	Ant4	2462	-8.99	≤8.00	PASS
	total	2462	-5.88	≤8.00	PASS
11N20MIMO	Ant2	2412	-13.09	≤8.00	PASS
	Ant4	2412	-12.47	≤8.00	PASS
	total	2412	-9.76	≤8.00	PASS
	Ant2	2417	-11.34	≤8.00	PASS
	Ant4	2417	-11.52	≤8.00	PASS
	total	2417	-8.42	≤8.00	PASS
	Ant2	2437	-8.28	≤8.00	PASS
	Ant4	2437	-7.02	≤8.00	PASS
	total	2437	-4.59	≤8.00	PASS
	Ant2	2457	-7.65	≤8.00	PASS
	Ant4	2457	-7.58	≤8.00	PASS
	total	2457	-4.60	≤8.00	PASS
	Ant2	2462	-9.39	≤8.00	PASS
	Ant4	2462	-9.03	≤8.00	PASS
	total	2462	-6.20	≤8.00	PASS
11N40MIMO	Ant2	2422	-15.61	≤8.00	PASS
	Ant4	2422	-15.34	≤8.00	PASS
	total	2422	-12.46	≤8.00	PASS
	Ant2	2427	-13.93	≤8.00	PASS
	Ant4	2427	-13.82	≤8.00	PASS
	total	2427	-10.86	≤8.00	PASS
	Ant2	2437	-10.63	≤8.00	PASS
	Ant4	2437	-10.89	≤8.00	PASS

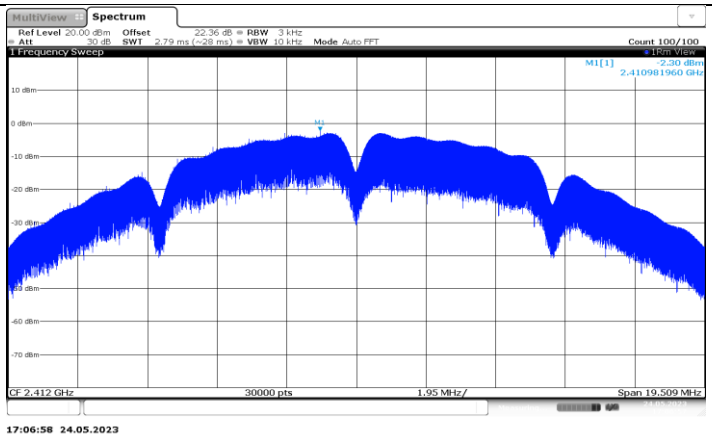
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

	total	2437	-7.75	≤8.00	PASS
	Ant2	2447	-13.23	≤8.00	PASS
	Ant4	2447	-12.89	≤8.00	PASS
	total	2447	-10.05	≤8.00	PASS
	Ant2	2452	-13.96	≤8.00	PASS
	Ant4	2452	-13.43	≤8.00	PASS
	total	2452	-10.68	≤8.00	PASS
11AX20MIMO	Ant2	2412	-13.61	≤8.00	PASS
	Ant4	2412	-13.81	≤8.00	PASS
	total	2412	-10.70	≤8.00	PASS
	Ant2	2417	-12.55	≤8.00	PASS
	Ant4	2417	-13.33	≤8.00	PASS
	total	2417	-9.91	≤8.00	PASS
	Ant2	2437	-9.75	≤8.00	PASS
	Ant4	2437	-9.46	≤8.00	PASS
	total	2437	-6.59	≤8.00	PASS
	Ant2	2457	-11.79	≤8.00	PASS
	Ant4	2457	-11.65	≤8.00	PASS
	total	2457	-8.71	≤8.00	PASS
	Ant2	2462	-12.14	≤8.00	PASS
	Ant4	2462	-11.96	≤8.00	PASS
	total	2462	-9.04	≤8.00	PASS
11AX40MIMO	Ant2	2422	-17.3	≤8.00	PASS
	Ant4	2422	-18.49	≤8.00	PASS
	total	2422	-14.84	≤8.00	PASS
	Ant2	2427	-17.74	≤8.00	PASS
	Ant4	2427	-17.38	≤8.00	PASS
	total	2427	-14.55	≤8.00	PASS
	Ant2	2437	-11.42	≤8.00	PASS
	Ant4	2437	-12.26	≤8.00	PASS
	total	2437	-8.81	≤8.00	PASS
	Ant2	2447	-16.92	≤8.00	PASS
	Ant4	2447	-15.43	≤8.00	PASS
	total	2447	-13.10	≤8.00	PASS
	Ant2	2452	-16.51	≤8.00	PASS
	Ant4	2452	-17.28	≤8.00	PASS
	total	2452	-13.87	≤8.00	PASS

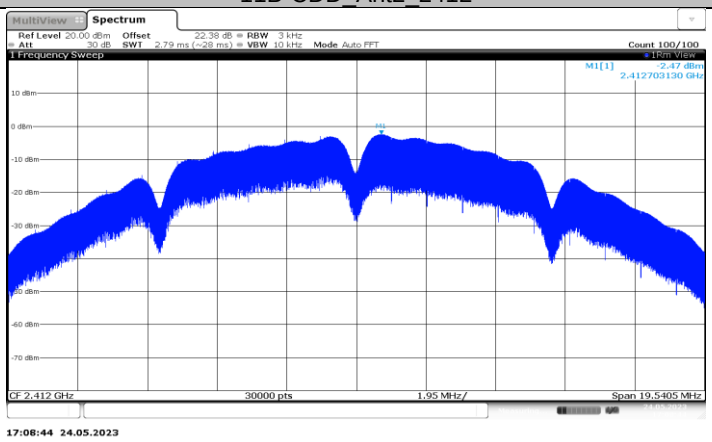
Note: 1. The Duty Cycle Factor (refer to section 7.5) had already compensated to the test data.

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

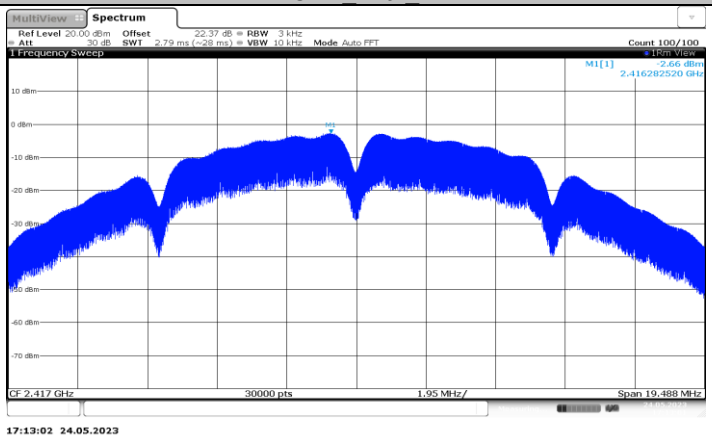
11.4.2. Test Graphs



11B-CDD_Ant2_2412

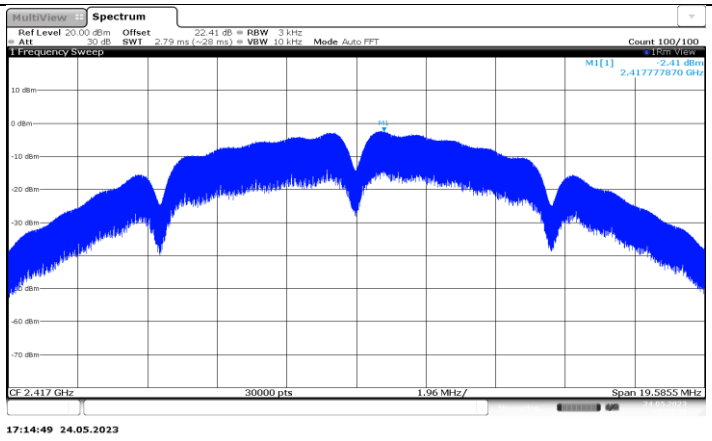


11B-CDD_Ant4_2412

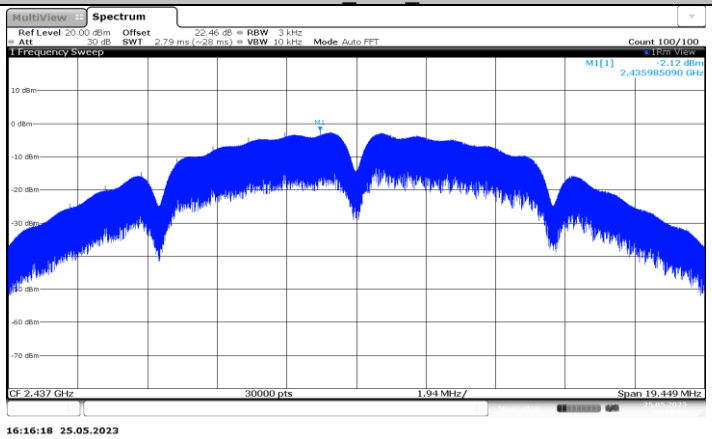


11B-CDD_Ant2_2417

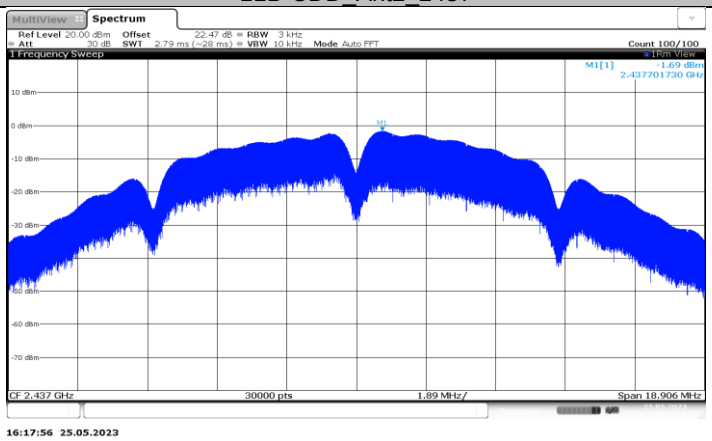
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2417

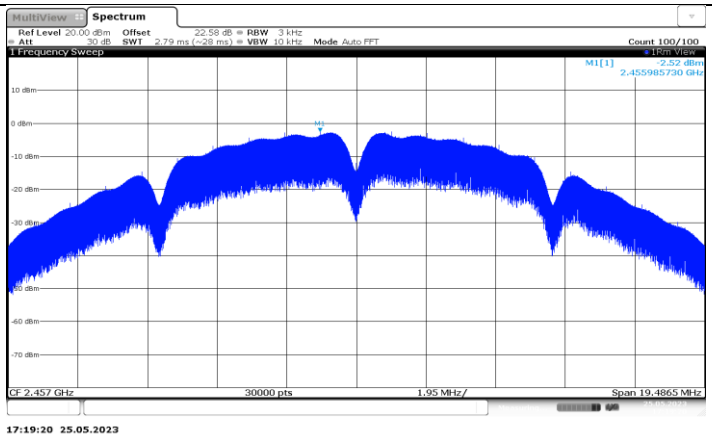


11B-CDD_Ant2_2437

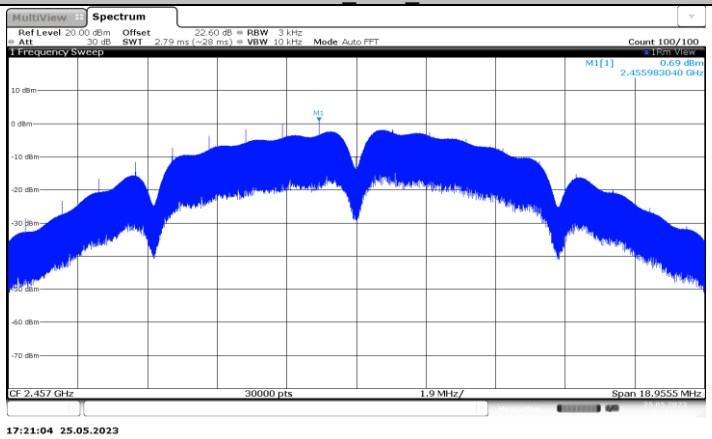


11B-CDD_Ant4_2437

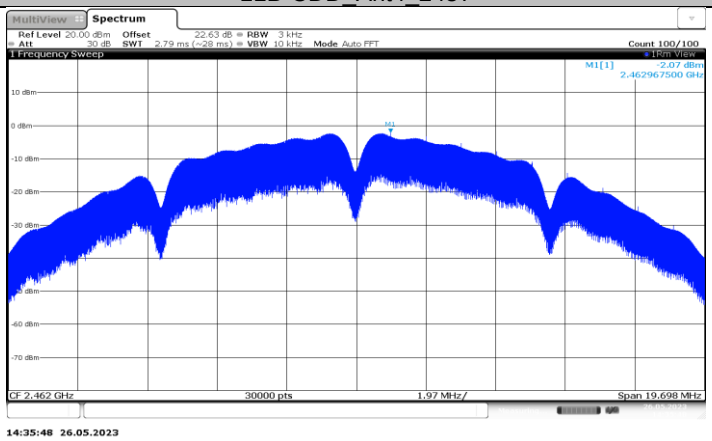
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant2_2457

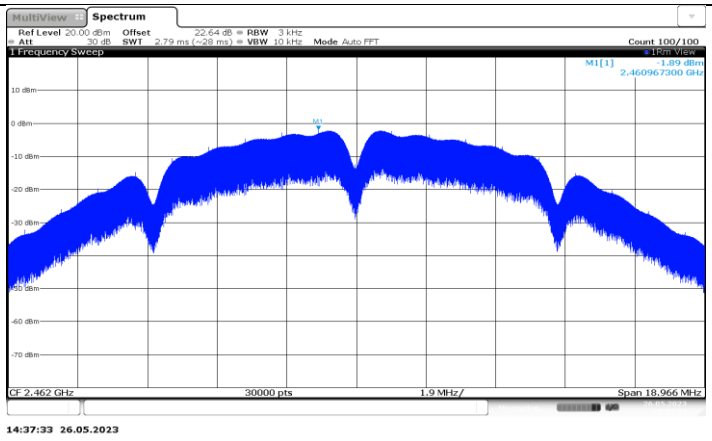


11B-CDD_Ant4_2457

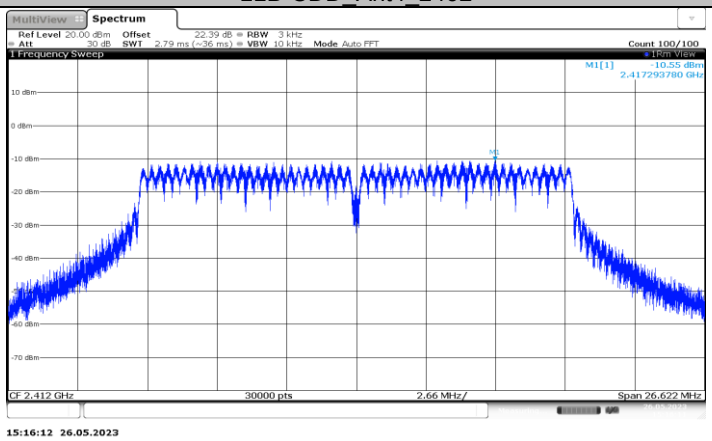


11B-CDD_Ant2_2462

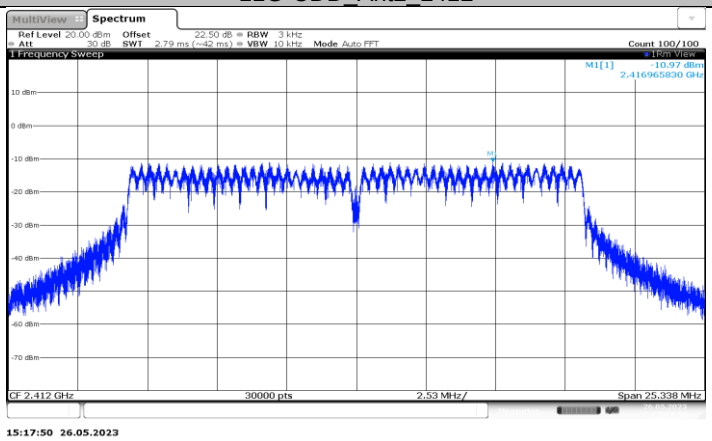
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2462

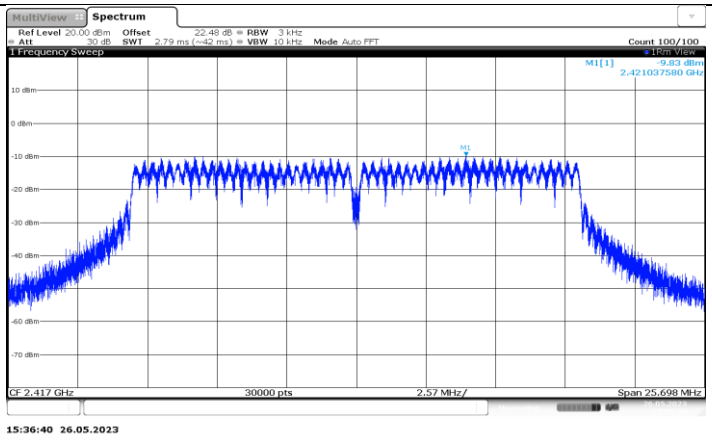


11G-CDD_Ant2_2412

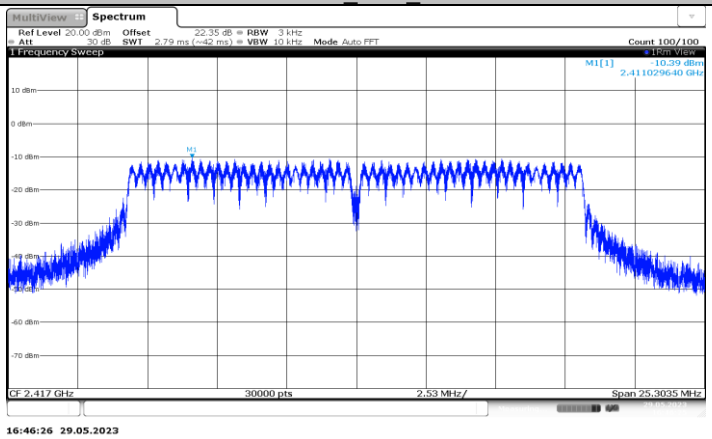


11G-CDD_Ant4_2412

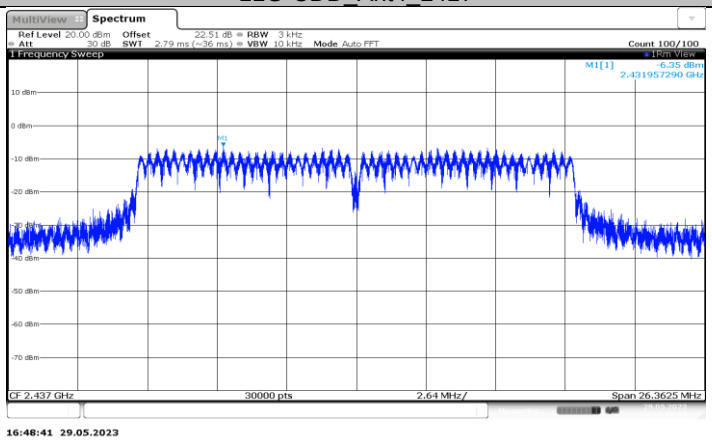
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant2_2417



11G-CDD_Ant4_2417



11G-CDD_Ant2_2437

This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.