10. AC POWER LINE CONDUCTED EMISSION

LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

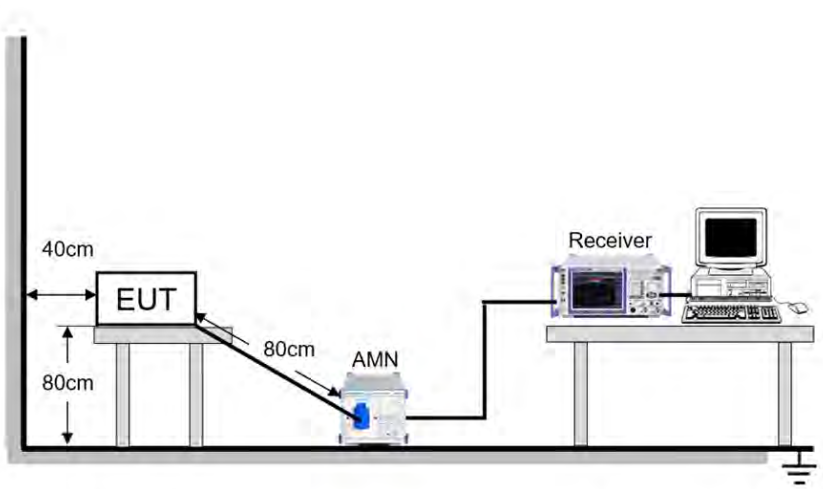
FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST PROCEDURE

The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

TEST SETUP



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

TEST ENVIRONMENT

Temperature	22.6℃	Relative Humidity	56.0%
Atmosphere Pressure	101kPa	Test Voltage	AC 120 V, 60 Hz

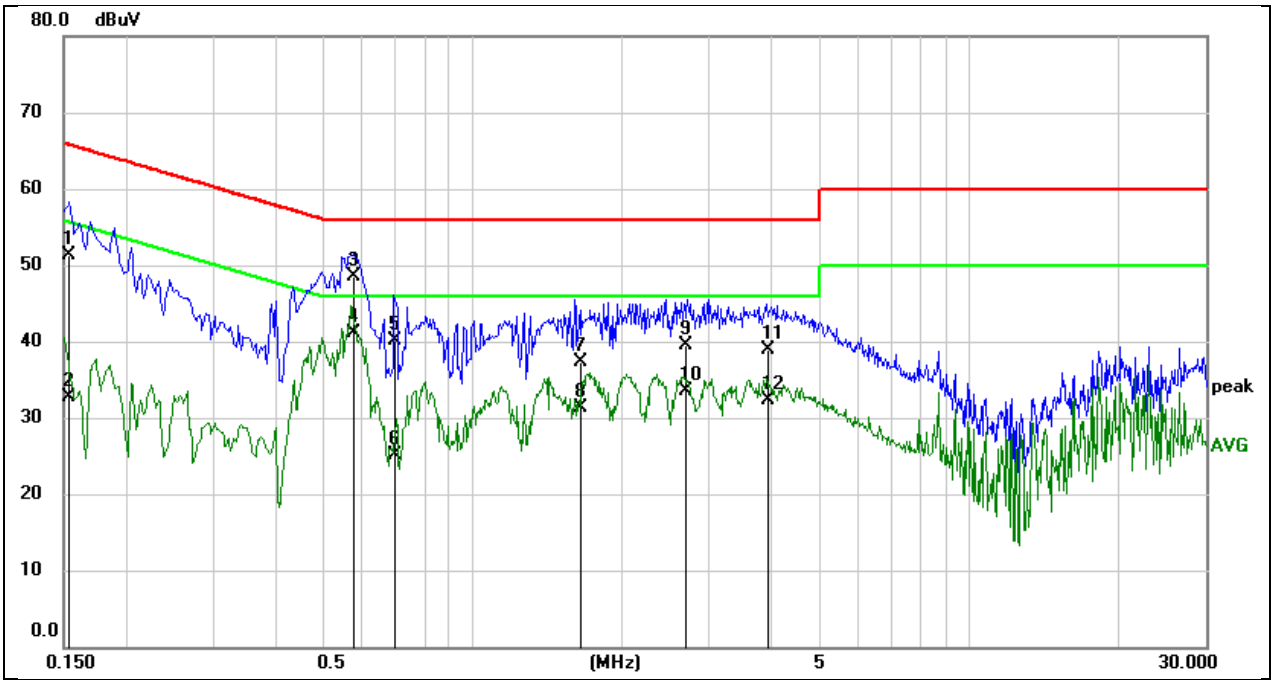
TEST DATE / ENGINEER

Test Date	March 2, 2023	Test By	Wite Chen

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

TEST RESULTS

Test Mode:	802.11b	Channel:	2412
Line:	Line	Test Voltage	AC 120 V, 60 Hz



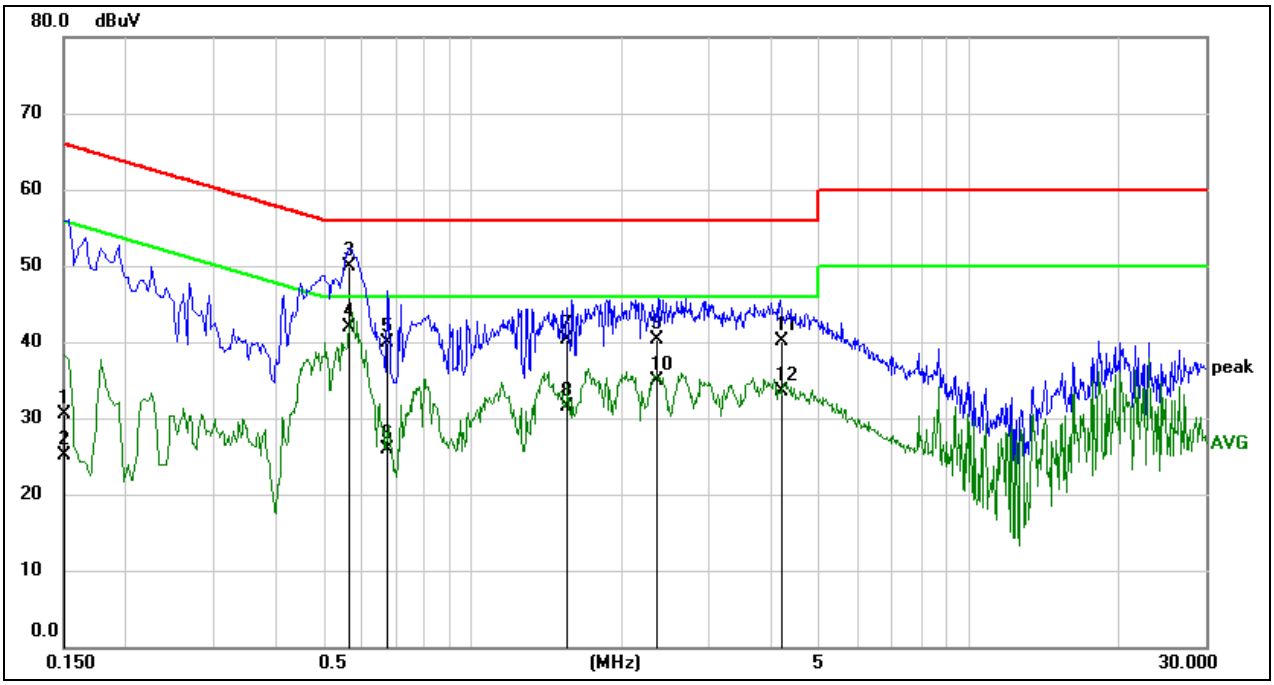
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1536	41.72	9.59	51.31	65.80	-14.49	QP
2	0.1536	23.06	9.59	32.65	55.80	-23.15	AVG
3	0.5751	38.94	9.60	48.54	56.00	-7.46	QP
4	0.5751	31.51	9.60	41.11	46.00	-4.89	AVG
5	0.6991	30.55	9.60	40.15	56.00	-15.85	QP
6	0.6991	15.56	9.60	25.16	46.00	-20.84	AVG
7	1.6468	27.70	9.62	37.32	56.00	-18.68	QP
8	1.6468	21.68	9.62	31.30	46.00	-14.70	AVG
9	2.6859	29.95	9.65	39.60	56.00	-16.40	QP
10	2.6859	23.78	9.65	33.43	46.00	-12.57	AVG
11	3.9617	29.24	9.70	38.94	56.00	-17.06	QP
12	3.9617	22.70	9.70	32.40	46.00	-13.60	AVG

Note:
1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

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

Test Mode:	802.11b	Channel:	2412
Line:	Neutral	Test Voltage	AC 120 V, 60 Hz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1500	20.82	9.59	30.41	66.00	-35.59	QP
2	0.1500	15.61	9.59	25.20	56.00	-30.80	AVG
3	0.5652	40.23	9.60	49.83	56.00	-6.17	QP
4	0.5652	32.30	9.60	41.90	46.00	-4.10	AVG
5	0.6752	30.29	9.60	39.89	56.00	-16.11	QP
6	0.6752	16.29	9.60	25.89	46.00	-20.11	AVG
7	1.5499	30.60	9.62	40.22	56.00	-15.78	QP
8	1.5499	21.88	9.62	31.50	46.00	-14.50	AVG
9	2.3580	30.58	9.65	40.23	56.00	-15.77	QP
10	2.3580	25.29	9.65	34.94	46.00	-11.06	AVG
11	4.2042	30.42	9.70	40.12	56.00	-15.88	QP
12	4.2042	23.76	9.70	33.46	46.00	-12.54	AVG

Note:
1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes have been tested, only the worst data was recorded in the report.

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. TEST DATA

11.1. APPENDIX A: DTS BANDWIDTH

11.1.1. Test Result

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant1	2412	13.36	2405.40	2418.76	0.5	PASS
	Ant2	2412	13.36	2405.40	2418.76	0.5	PASS
	Ant3	2412	13.36	2405.40	2418.76	0.5	PASS
	Ant4	2412	13.36	2405.40	2418.76	0.5	PASS
	Ant1	2417	13.32	2410.44	2423.76	0.5	PASS
	Ant2	2417	13.32	2410.44	2423.76	0.5	PASS
	Ant3	2417	13.36	2410.40	2423.76	0.5	PASS
	Ant4	2417	13.36	2410.40	2423.76	0.5	PASS
	Ant1	2437	13.32	2430.44	2443.76	0.5	PASS
	Ant2	2437	13.32	2430.44	2443.76	0.5	PASS
	Ant3	2437	13.32	2430.44	2443.76	0.5	PASS
	Ant4	2437	13.32	2430.44	2443.76	0.5	PASS
	Ant1	2457	13.32	2450.44	2463.76	0.5	PASS
	Ant2	2457	13.32	2450.44	2463.76	0.5	PASS
	Ant3	2457	13.44	2450.44	2463.88	0.5	PASS
	Ant4	2457	13.32	2450.44	2463.76	0.5	PASS
	Ant1	2462	13.32	2455.44	2468.76	0.5	PASS
	Ant2	2462	13.32	2455.44	2468.76	0.5	PASS
	Ant3	2462	13.32	2455.44	2468.76	0.5	PASS
	Ant4	2462	13.32	2455.44	2468.76	0.5	PASS
11G-CDD	Ant1	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant2	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant3	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant4	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant1	2417	16.48	2408.72	2425.20	0.5	PASS
	Ant2	2417	16.40	2408.76	2425.16	0.5	PASS
	Ant3	2417	16.40	2408.80	2425.20	0.5	PASS
	Ant4	2417	16.32	2408.84	2425.16	0.5	PASS
	Ant1	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant2	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant3	2437	16.40	2428.80	2445.20	0.5	PASS
	Ant4	2437	16.40	2428.80	2445.20	0.5	PASS
	Ant1	2457	16.48	2448.72	2465.20	0.5	PASS
	Ant2	2457	16.36	2448.84	2465.20	0.5	PASS
	Ant3	2457	16.32	2448.84	2465.16	0.5	PASS
	Ant4	2457	16.44	2448.76	2465.20	0.5	PASS
	Ant1	2462	16.32	2453.84	2470.16	0.5	PASS
	Ant2	2462	16.40	2453.80	2470.20	0.5	PASS
	Ant3	2462	16.36	2453.84	2470.20	0.5	PASS
	Ant4	2462	16.36	2453.84	2470.20	0.5	PASS
11AX20MIMO	Ant1	2412	19.12	2402.44	2421.56	0.5	PASS
	Ant2	2412	18.96	2402.56	2421.52	0.5	PASS
	Ant3	2412	19.12	2402.44	2421.56	0.5	PASS
	Ant4	2412	19.04	2402.48	2421.52	0.5	PASS
	Ant1	2417	19.08	2407.44	2426.52	0.5	PASS
	Ant2	2417	19.04	2407.48	2426.52	0.5	PASS
	Ant3	2417	19.00	2407.48	2426.48	0.5	PASS
	Ant4	2417	19.12	2407.44	2426.56	0.5	PASS
	Ant1	2437	19.04	2427.48	2446.52	0.5	PASS
	Ant2	2437	19.08	2427.44	2446.52	0.5	PASS
	Ant3	2437	19.08	2427.48	2446.56	0.5	PASS
	Ant4	2437	19.12	2427.44	2446.56	0.5	PASS
	Ant1	2457	19.12	2447.44	2466.56	0.5	PASS
	Ant2	2457	19.12	2447.44	2466.56	0.5	PASS
	Ant3	2457	19.04	2447.48	2466.52	0.5	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.

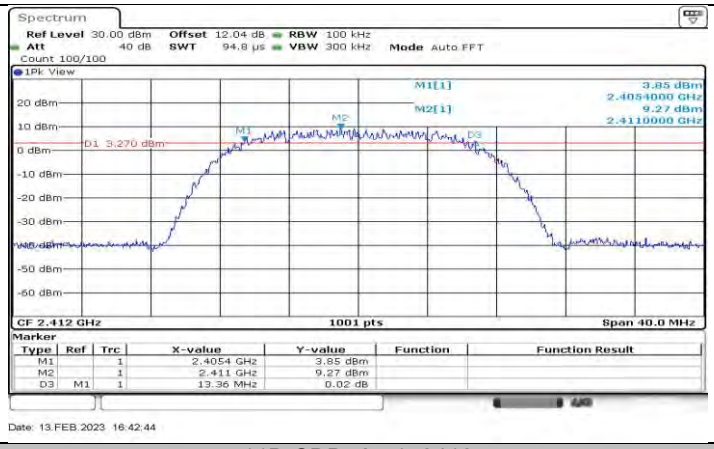
	Ant4	2457	19.12	2447.44	2466.56	0.5	PASS
	Ant1	2462	19.00	2452.48	2471.48	0.5	PASS
	Ant2	2462	18.96	2452.52	2471.48	0.5	PASS
	Ant3	2462	19.04	2452.48	2471.52	0.5	PASS
	Ant4	2462	19.12	2452.44	2471.56	0.5	PASS
11AX40MIMO	Ant1	2422	38.16	2402.80	2440.96	0.5	PASS
	Ant2	2422	38.00	2402.96	2440.96	0.5	PASS
	Ant3	2422	38.00	2402.96	2440.96	0.5	PASS
	Ant4	2422	38.16	2402.88	2441.04	0.5	PASS
	Ant1	2427	38.08	2407.88	2445.96	0.5	PASS
	Ant2	2427	38.32	2407.80	2446.12	0.5	PASS
	Ant3	2427	38.08	2407.88	2445.96	0.5	PASS
	Ant4	2427	38.08	2407.96	2446.04	0.5	PASS
	Ant1	2437	38.24	2417.80	2456.04	0.5	PASS
	Ant2	2437	38.08	2417.96	2456.04	0.5	PASS
	Ant3	2437	38.16	2417.88	2456.04	0.5	PASS
	Ant4	2437	38.08	2417.96	2456.04	0.5	PASS
	Ant1	2447	38.08	2427.88	2465.96	0.5	PASS
	Ant2	2447	38.16	2427.96	2466.12	0.5	PASS
	Ant3	2447	38.08	2427.96	2466.04	0.5	PASS
	Ant4	2447	38.16	2427.88	2466.04	0.5	PASS
	Ant1	2452	38.16	2432.88	2471.04	0.5	PASS
	Ant2	2452	38.08	2432.96	2471.04	0.5	PASS
	Ant3	2452	38.16	2432.88	2471.04	0.5	PASS
	Ant4	2452	38.08	2432.96	2471.04	0.5	PASS
11BE20MIMO	Ant1	2412	18.96	2402.48	2421.44	0.5	PASS
	Ant2	2412	19.08	2402.44	2421.52	0.5	PASS
	Ant3	2412	19.12	2402.44	2421.56	0.5	PASS
	Ant4	2412	19.08	2402.44	2421.52	0.5	PASS
	Ant1	2417	19.04	2407.48	2426.52	0.5	PASS
	Ant2	2417	19.08	2407.44	2426.52	0.5	PASS
	Ant3	2417	19.00	2407.48	2426.48	0.5	PASS
	Ant4	2417	19.08	2407.44	2426.52	0.5	PASS
	Ant1	2437	18.96	2427.48	2446.44	0.5	PASS
	Ant2	2437	19.04	2427.48	2446.52	0.5	PASS
	Ant3	2437	19.08	2427.44	2446.52	0.5	PASS
	Ant4	2437	19.00	2427.52	2446.52	0.5	PASS
	Ant1	2457	19.08	2447.44	2466.52	0.5	PASS
	Ant2	2457	19.08	2447.44	2466.52	0.5	PASS
	Ant3	2457	19.08	2447.44	2466.52	0.5	PASS
	Ant4	2457	19.12	2447.44	2466.56	0.5	PASS
	Ant1	2462	19.08	2452.44	2471.52	0.5	PASS
	Ant2	2462	19.08	2452.44	2471.52	0.5	PASS
	Ant3	2462	19.08	2452.44	2471.52	0.5	PASS
	Ant4	2462	19.08	2452.44	2471.52	0.5	PASS
11BE40MIMO	Ant1	2422	38.00	2402.96	2440.96	0.5	PASS
	Ant2	2422	38.24	2402.80	2441.04	0.5	PASS
	Ant3	2422	38.16	2402.88	2441.04	0.5	PASS
	Ant4	2422	38.08	2402.96	2441.04	0.5	PASS
	Ant1	2427	38.00	2407.96	2445.96	0.5	PASS
	Ant2	2427	38.24	2407.80	2446.04	0.5	PASS
	Ant3	2427	38.16	2407.88	2446.04	0.5	PASS
	Ant4	2427	38.08	2407.88	2445.96	0.5	PASS
	Ant1	2437	38.08	2417.80	2455.88	0.5	PASS
	Ant2	2437	38.08	2417.96	2456.04	0.5	PASS
	Ant3	2437	38.16	2417.88	2456.04	0.5	PASS
	Ant4	2437	38.00	2417.96	2455.96	0.5	PASS
	Ant1	2447	38.16	2427.88	2466.04	0.5	PASS
	Ant2	2447	38.24	2427.88	2466.12	0.5	PASS
	Ant3	2447	38.08	2427.96	2466.04	0.5	PASS
	Ant4	2447	38.00	2427.96	2465.96	0.5	PASS
	Ant1	2452	38.16	2432.88	2471.04	0.5	PASS
	Ant2	2452	38.16	2432.88	2471.04	0.5	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.

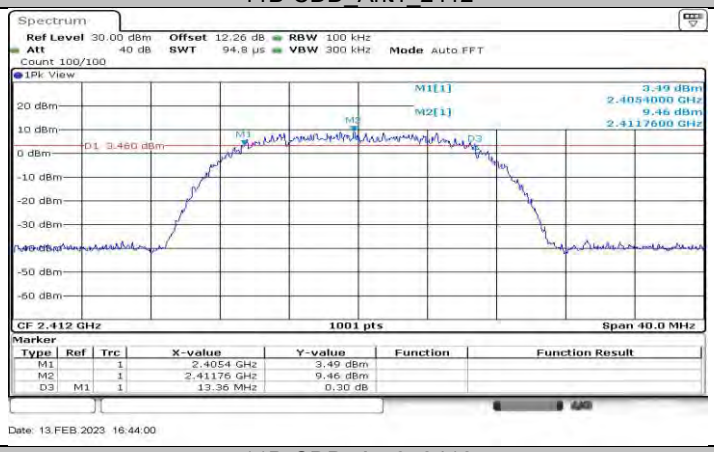
	Ant3	2452	38.16	2432.88	2471.04	0.5	PASS
	Ant4	2452	38.00	2433.04	2471.04	0.5	PASS

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

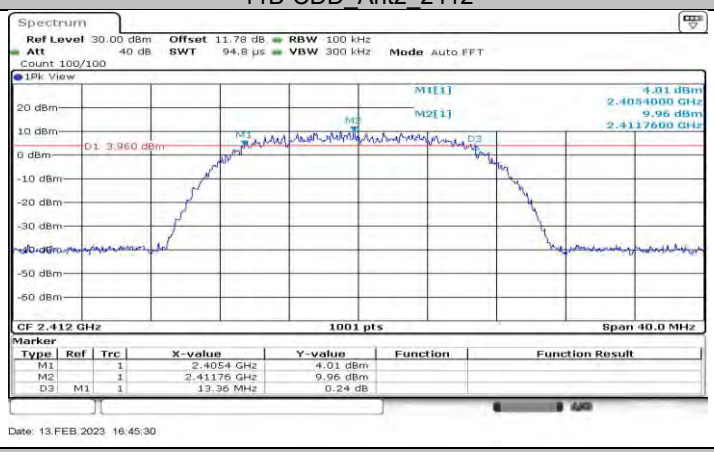
11.1.2. Test Graphs



11B-CDD_Ant1_2412

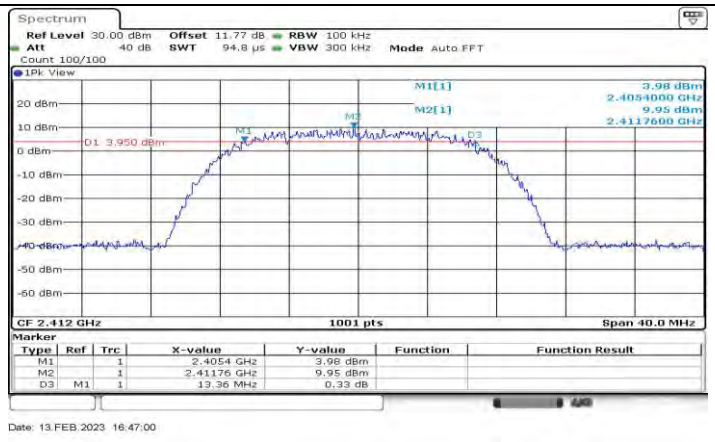


11B-CDD_Ant2_2412

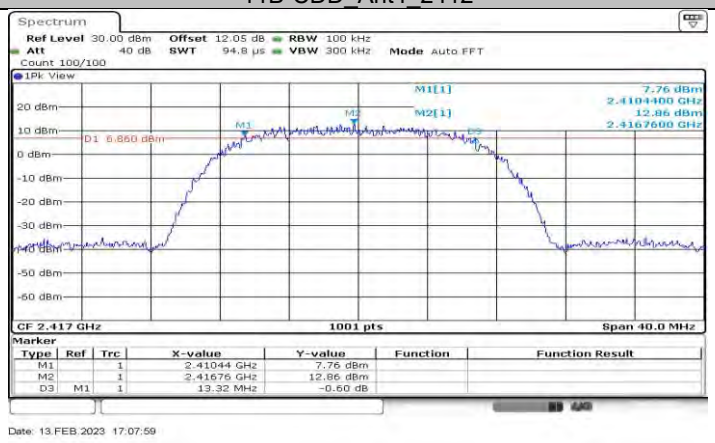


11B-CDD_Ant3_2412

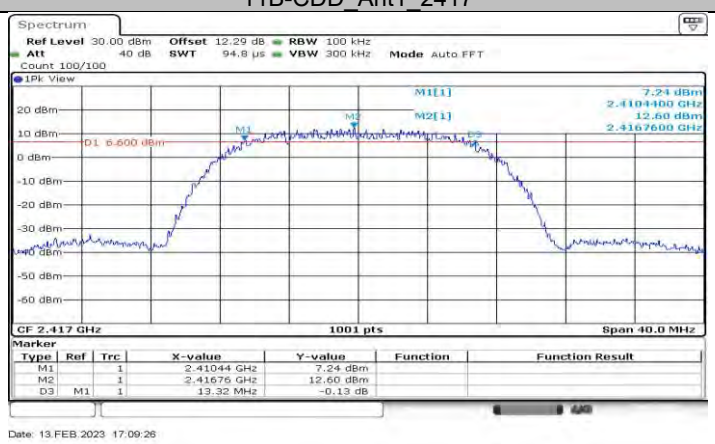
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2412

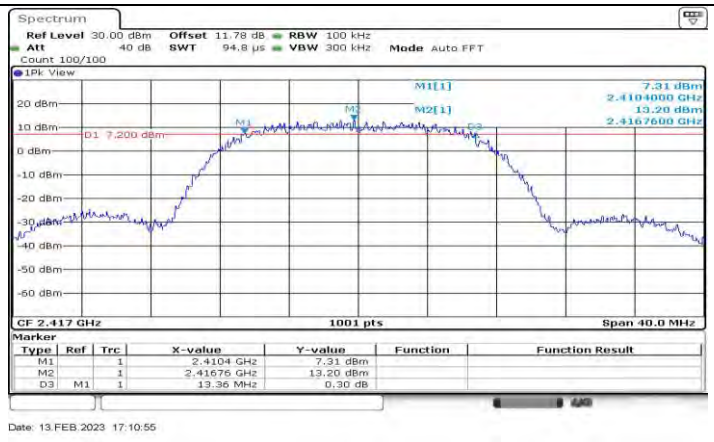


11B-CDD_Ant1_2417

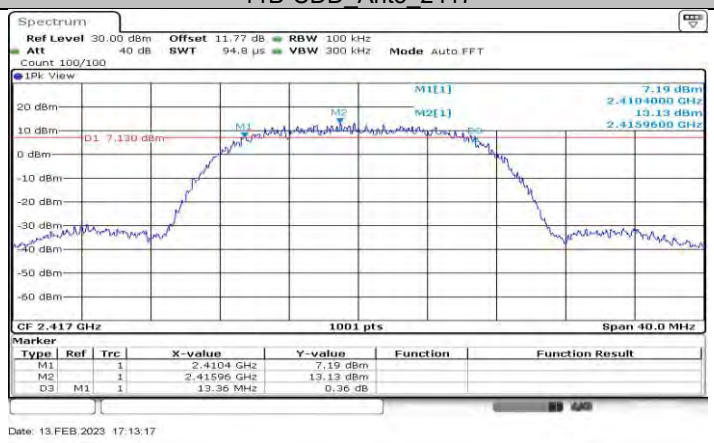


11B-CDD_Ant2_2417

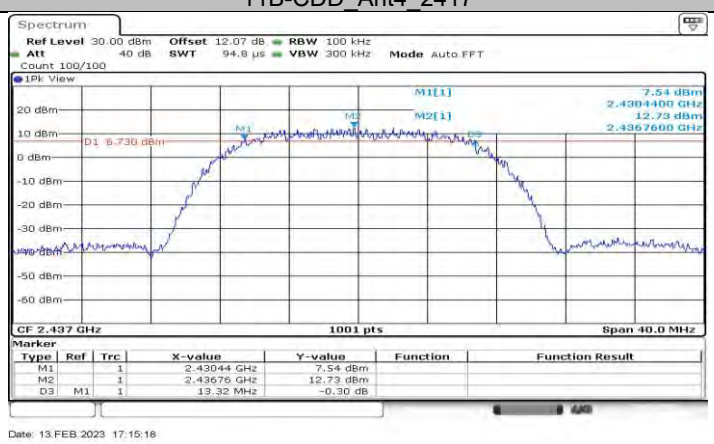
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant3_2417

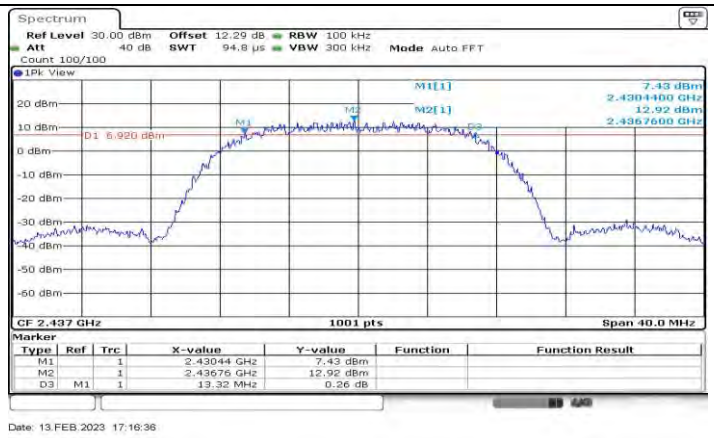


11B-CDD_Ant4_2417

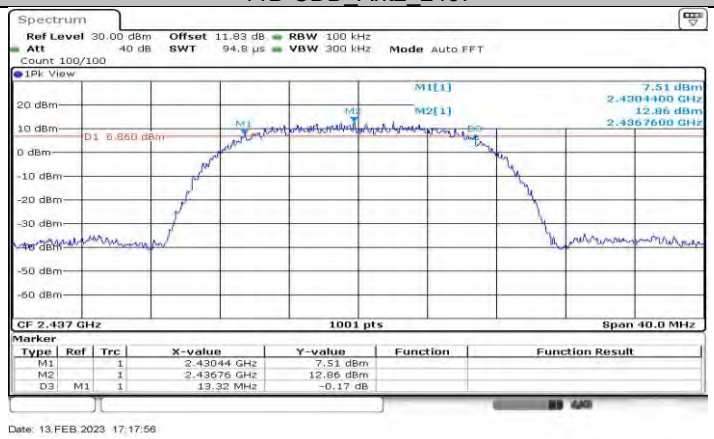


11B-CDD_Ant1_2437

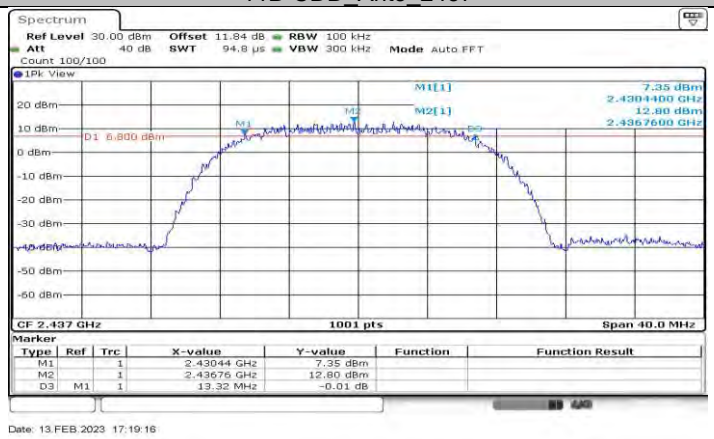
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant2_2437

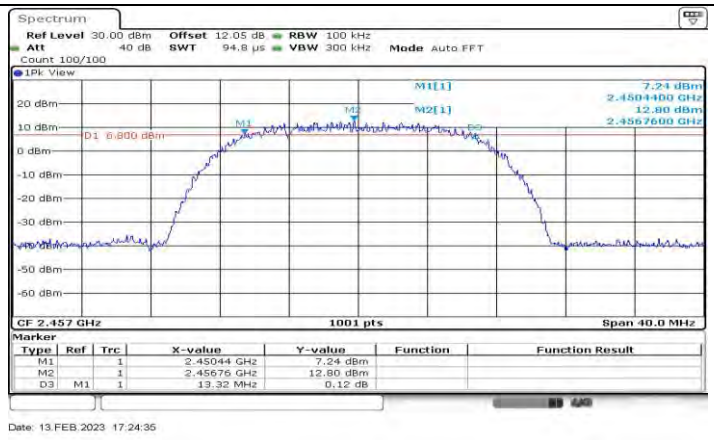


11B-CDD_Ant3_2437

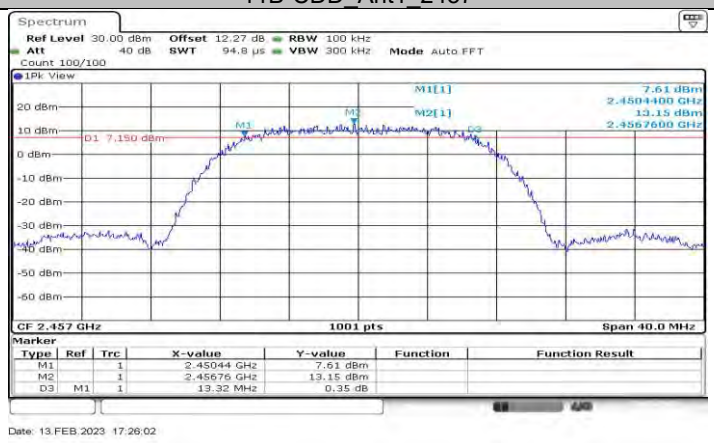


11B-CDD_Ant4_2437

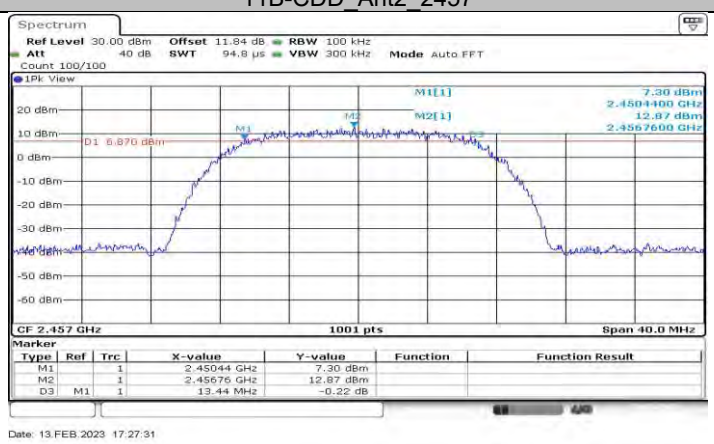
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant1_2457



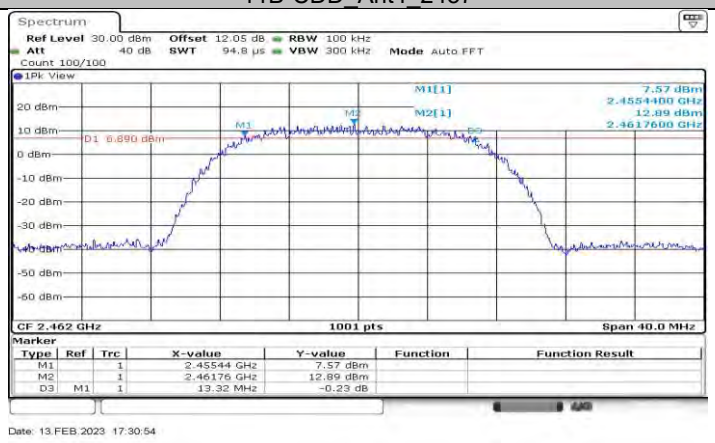
11B-CDD_Ant2_2457



11B-CDD_Ant3_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.

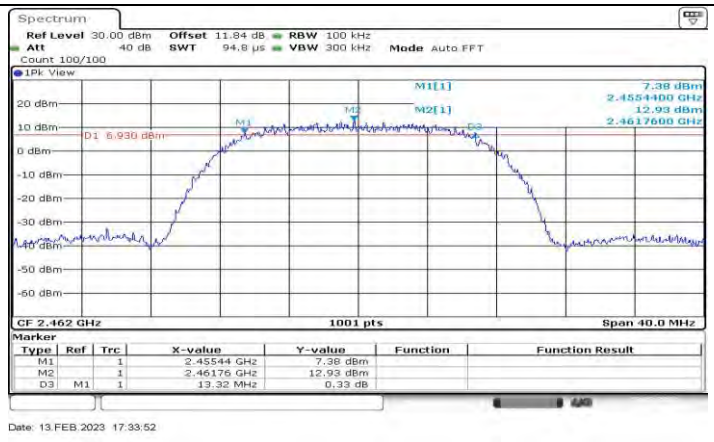
11B-CDD_Ant4_2457



11B-CDD_Ant1_2462

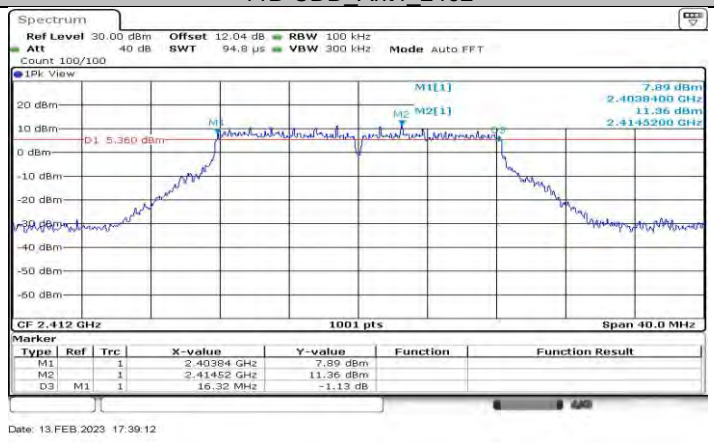
11B-CDD_Ant2_2462

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



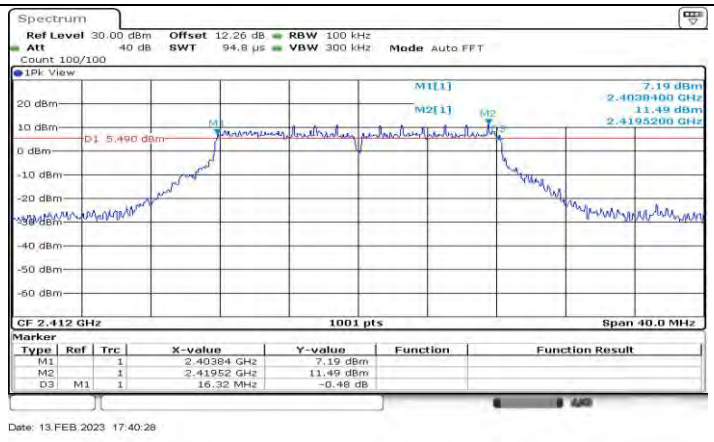
11B-CDD_Ant3_2462

11B-CDD_Ant4_2462

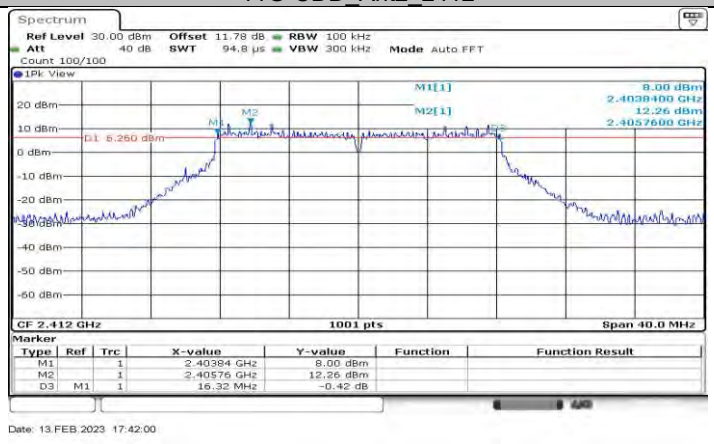


11G-CDD_Ant1_2412

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



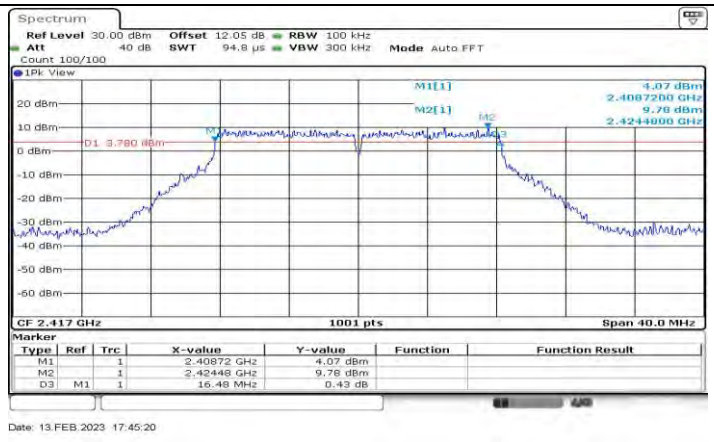
11G-CDD_Ant2_2412



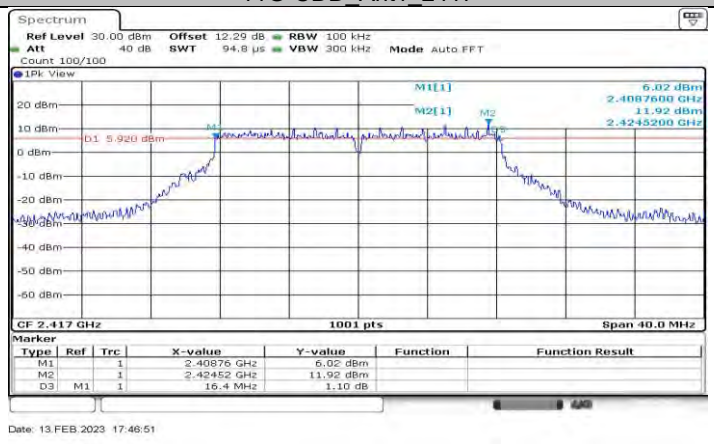
11G-CDD_Ant3_2412

11G-CDD_Ant4_2412

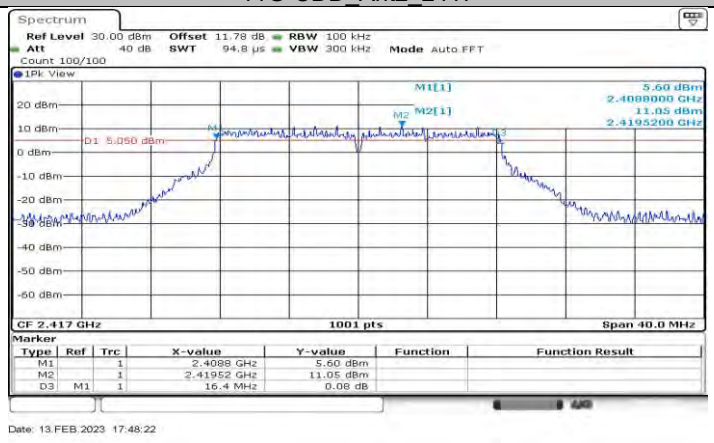
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant1_2417

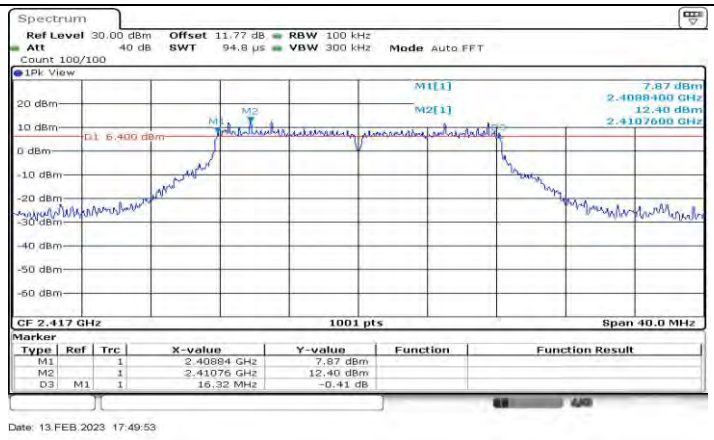


11G-CDD_Ant2_2417

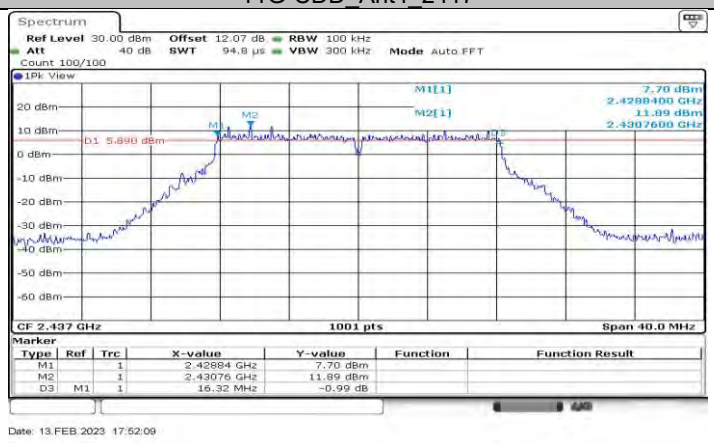


11G-CDD_Ant3_2417

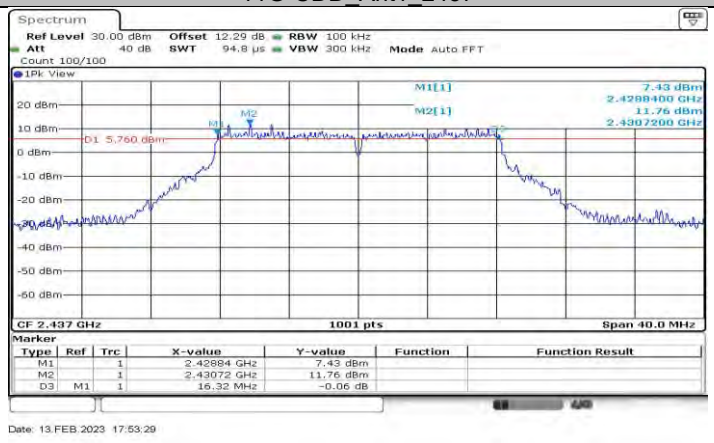
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant4_2417

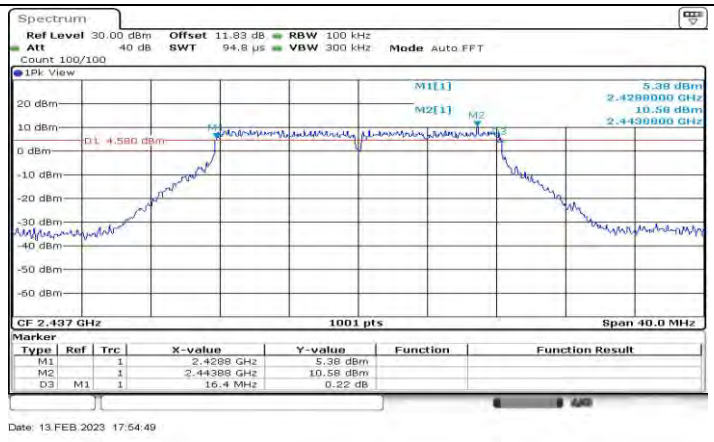


11G-CDD_Ant1_2437

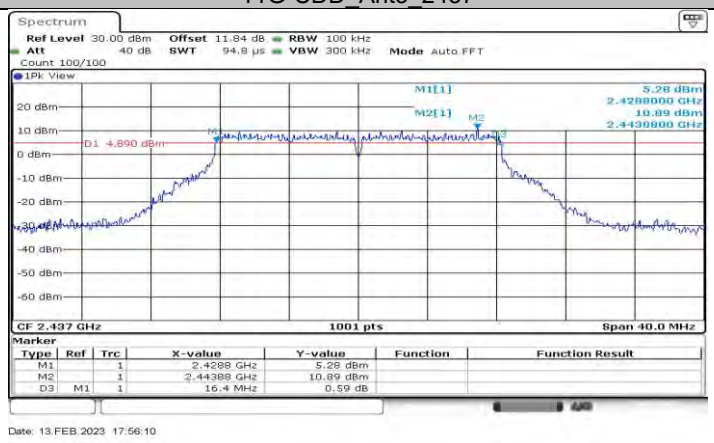


11G-CDD_Ant2_2437

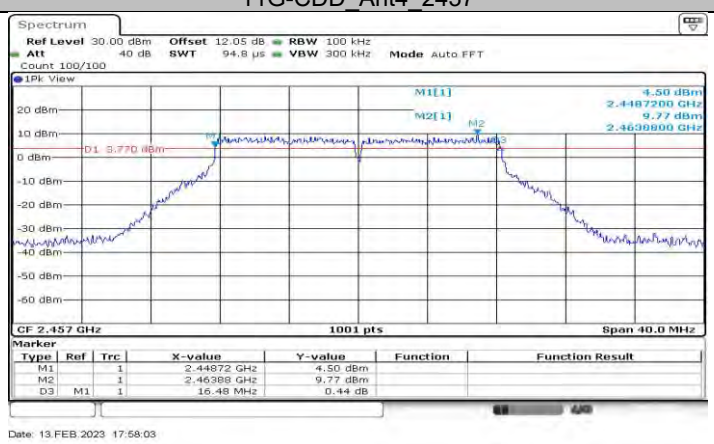
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant3_2437

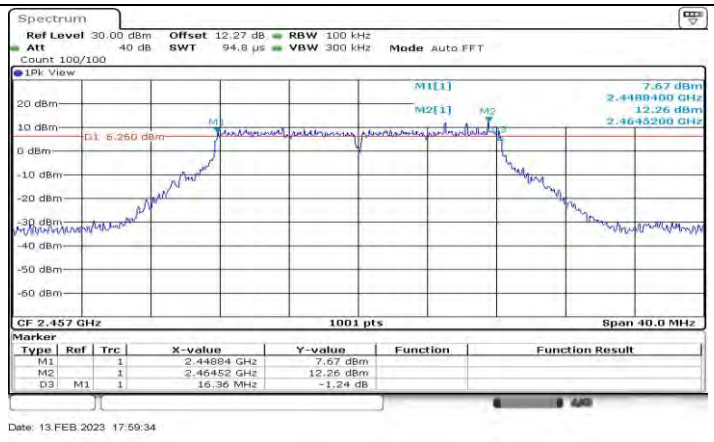


11G-CDD_Ant4_2437

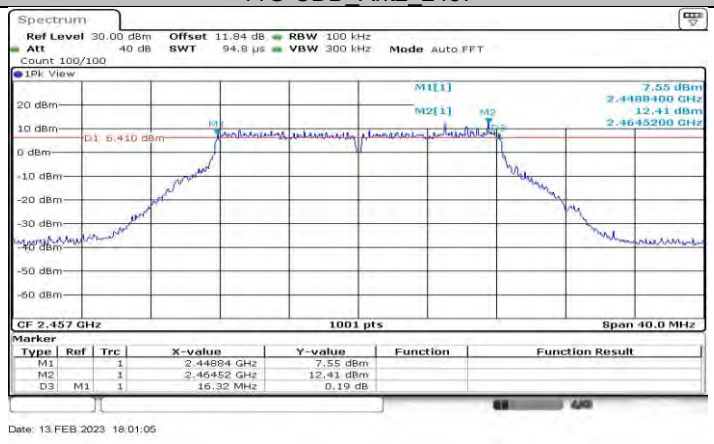


11G-CDD_Ant1_2457

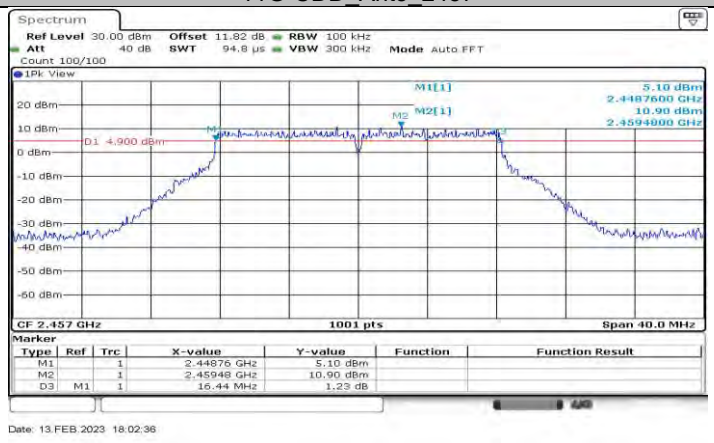
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant2_2457

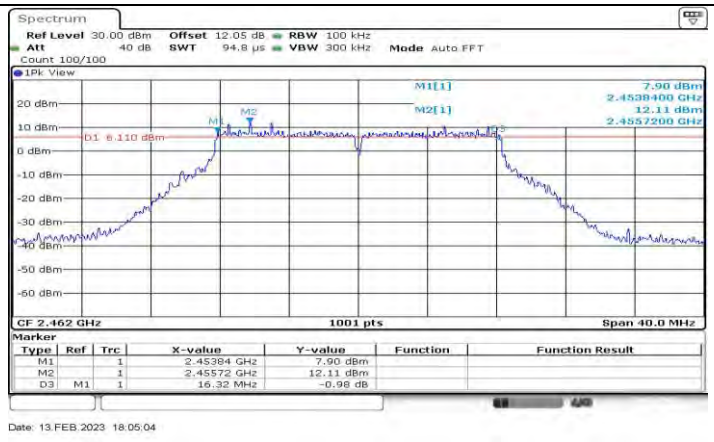


11G-CDD_Ant3_2457



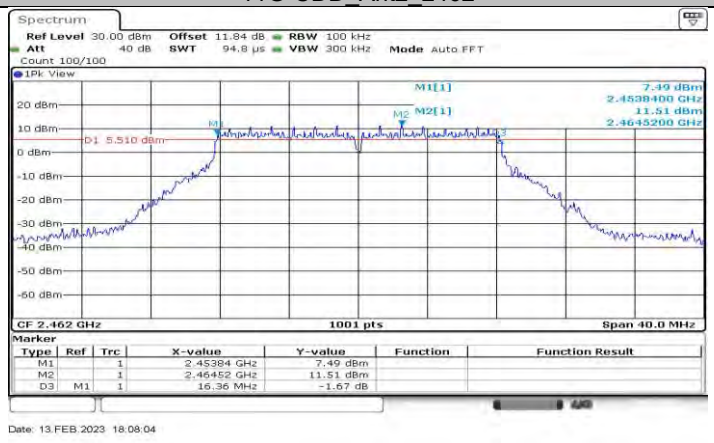
11G-CDD_Ant4_2457

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



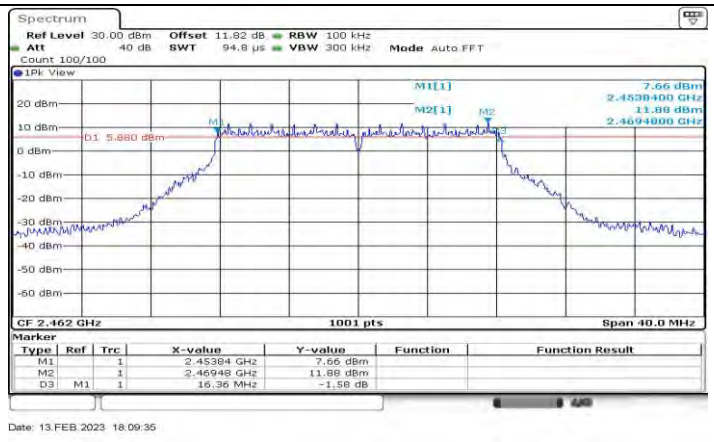
11G-CDD_Ant1_2462

11G-CDD_Ant2_2462

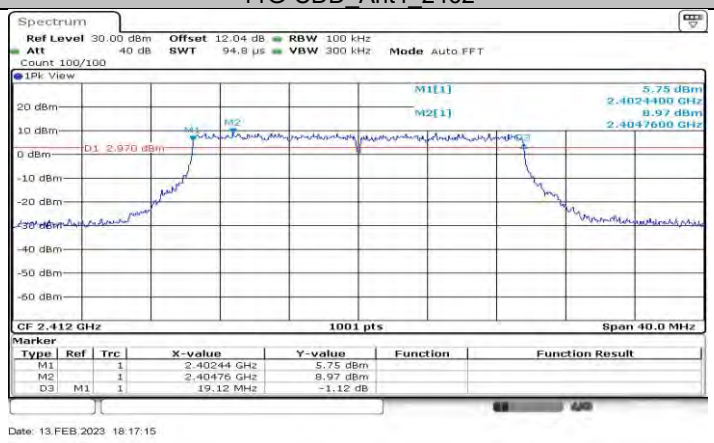


11G-CDD_Ant3_2462

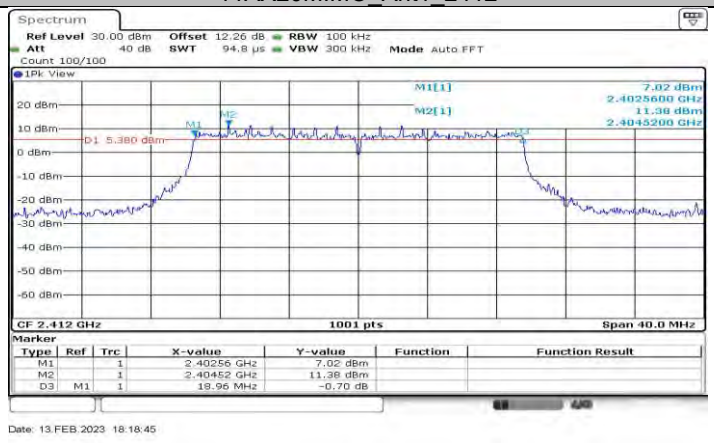
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant4_2462

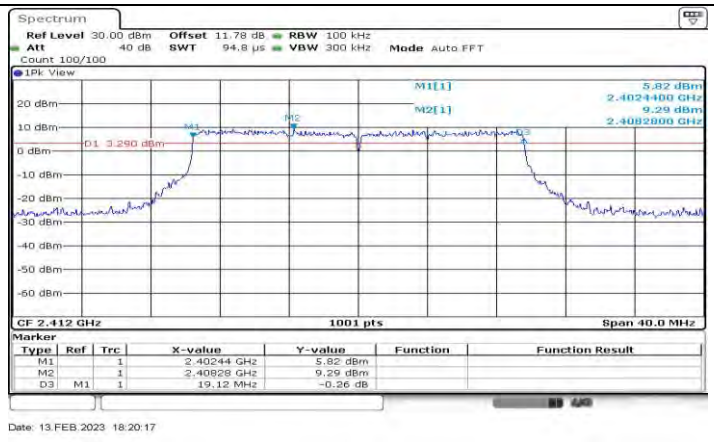


11AX20MIMO_Ant1_2412

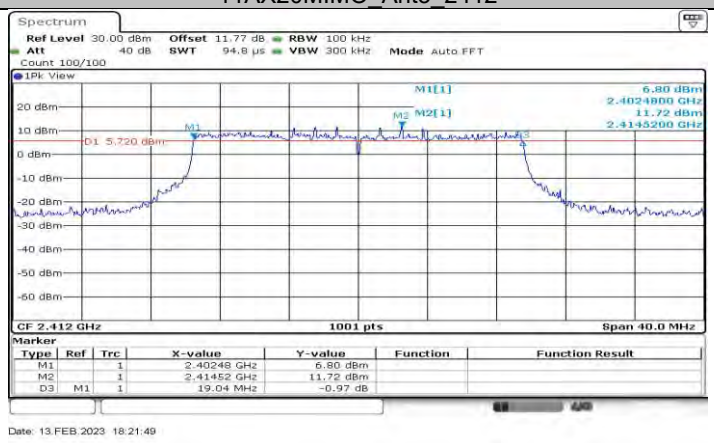


11AX20MIMO_Ant2_2412

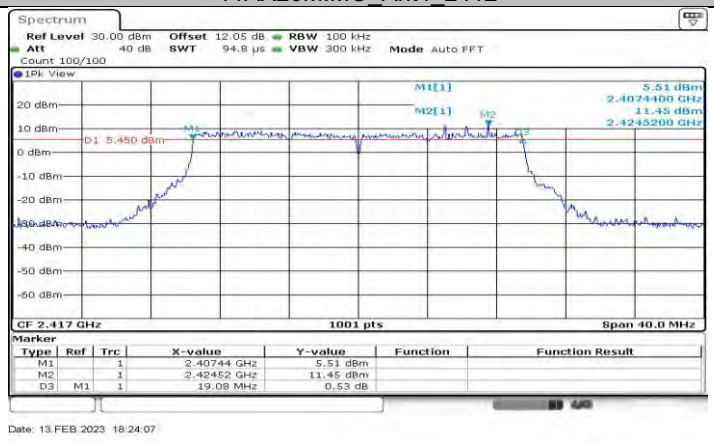
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant3_2412

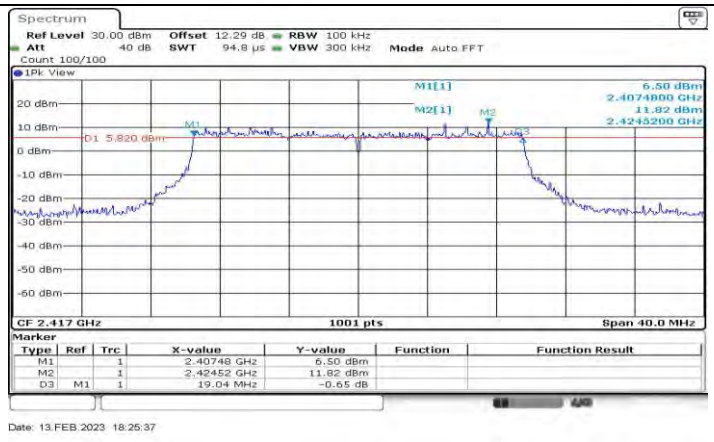


11AX20MIMO_Ant4_2412

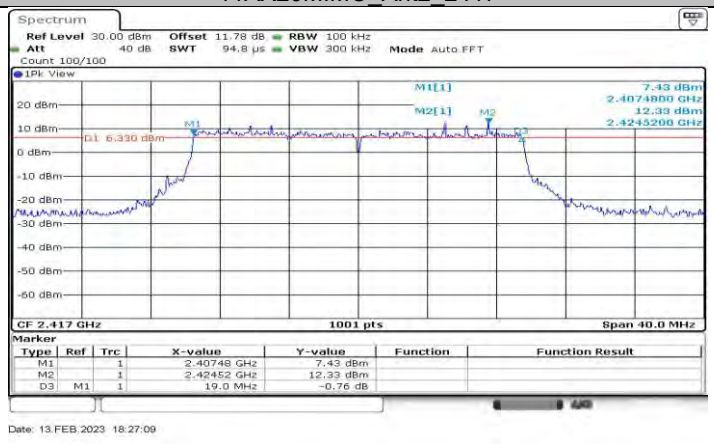


11AX20MIMO_Ant1_2417

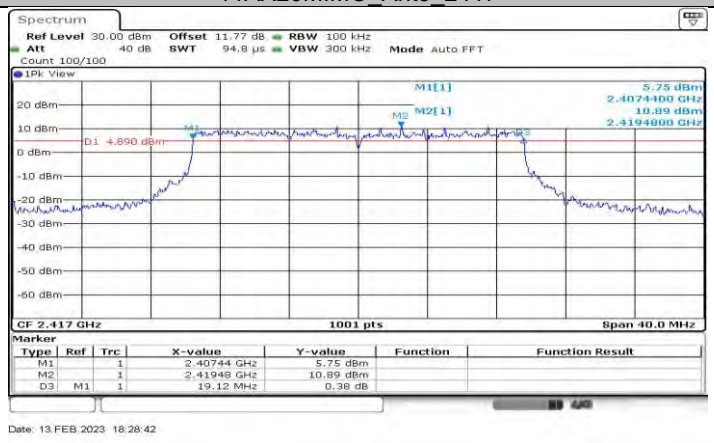
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2417

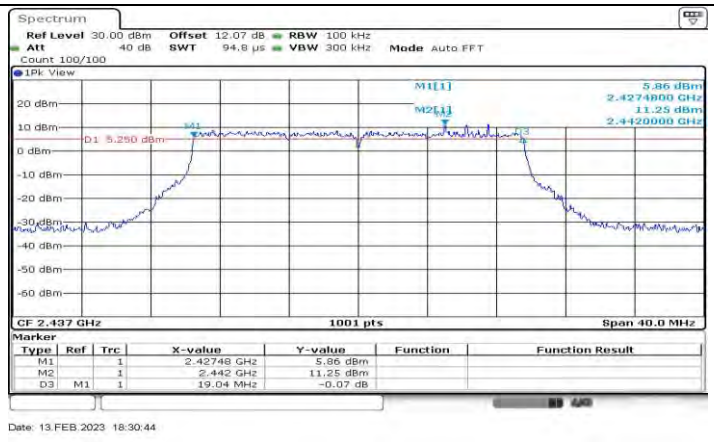


11AX20MIMO_Ant3_2417

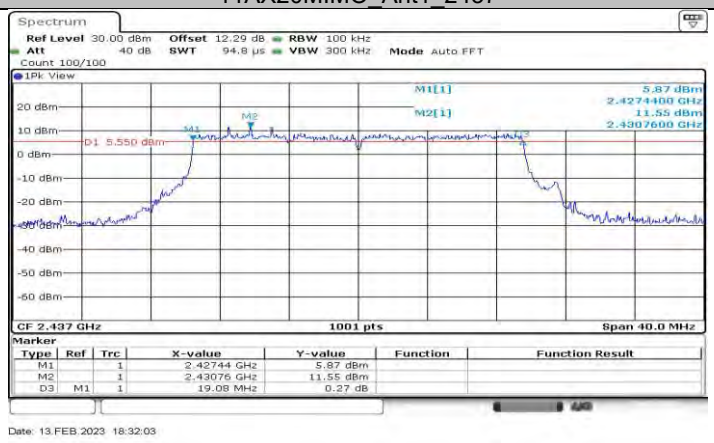


11AX20MIMO_Ant4_2417

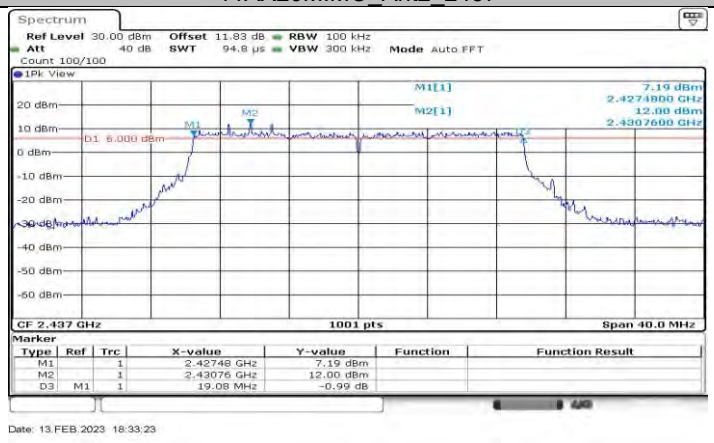
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant1_2437

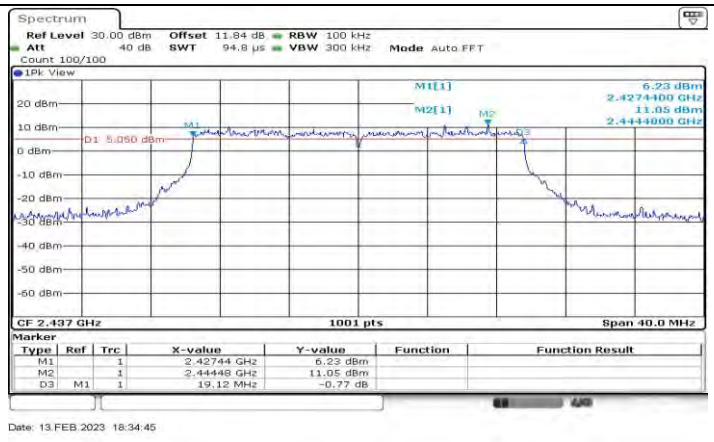


11AX20MIMO_Ant2_2437

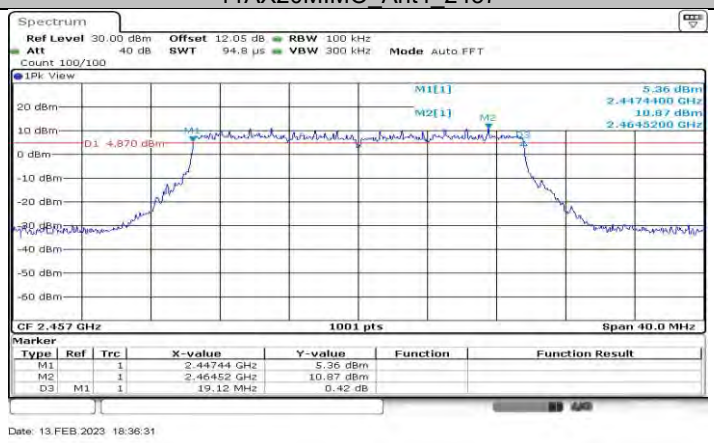


11AX20MIMO_Ant3_2437

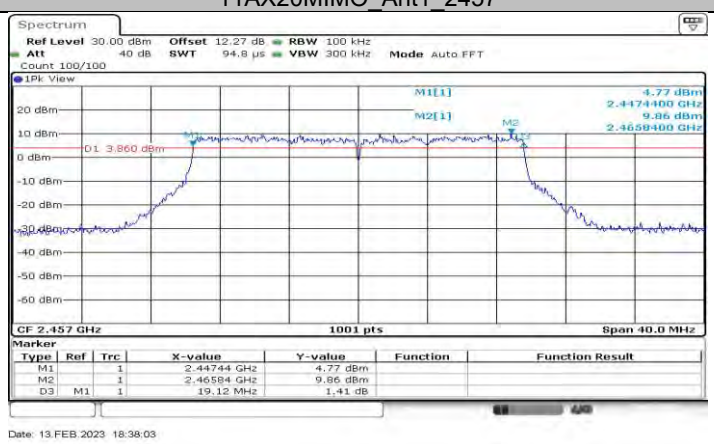
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant4_2437

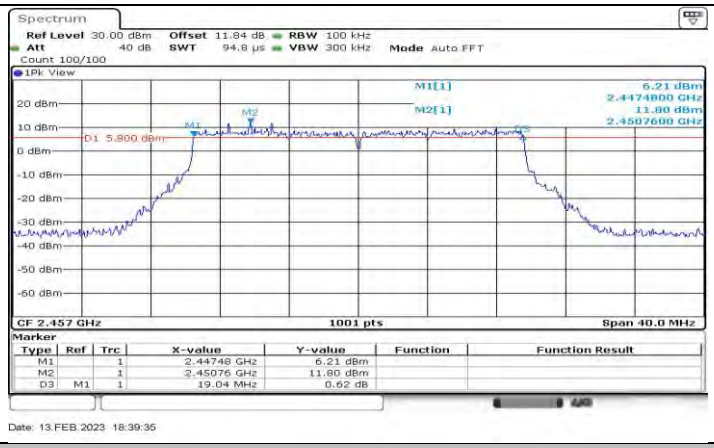


11AX20MIMO_Ant1_2457

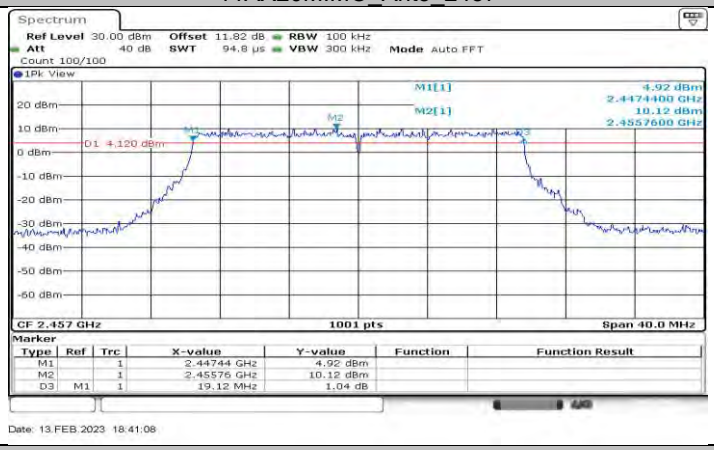


11AX20MIMO_Ant2_2457

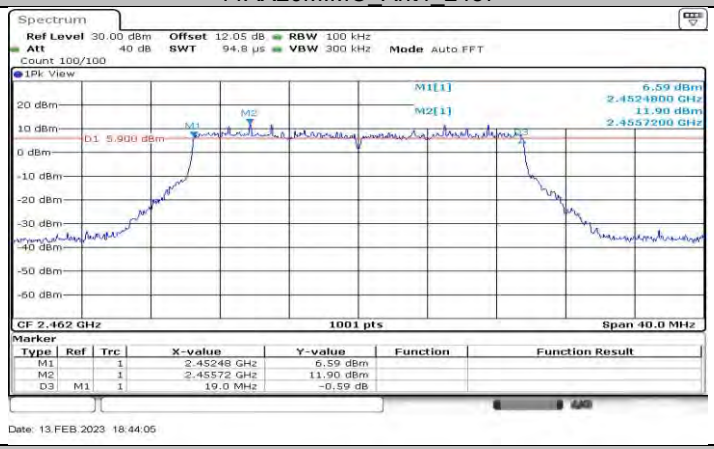
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant3_2457

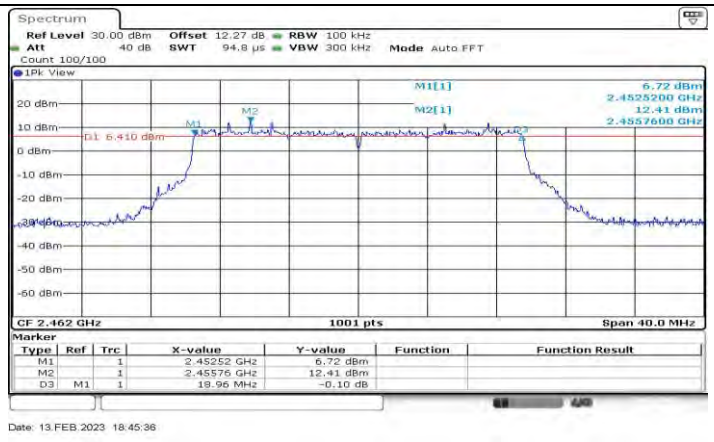


11AX20MIMO_Ant4_2457

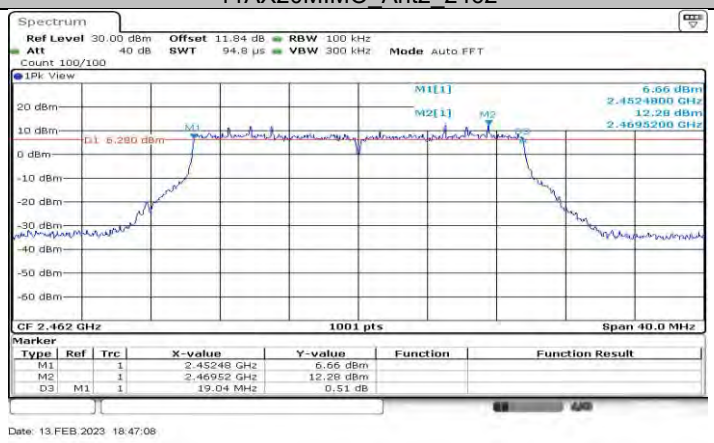


11AX20MIMO_Ant1_2462

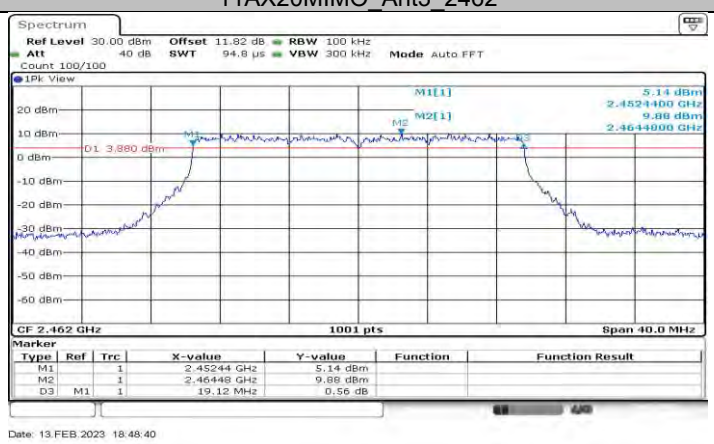
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2462

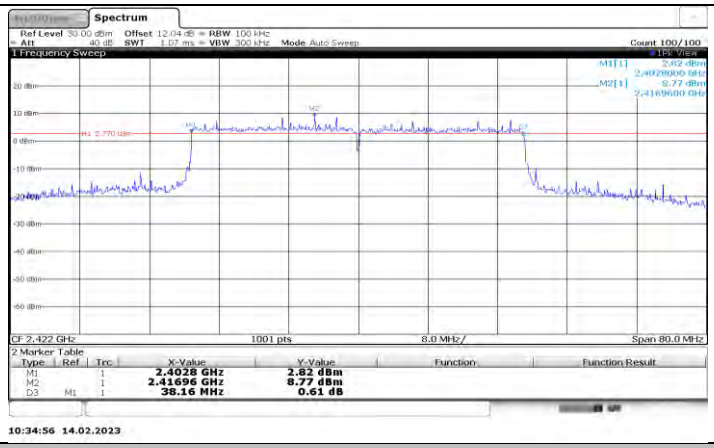


11AX20MIMO_Ant3_2462

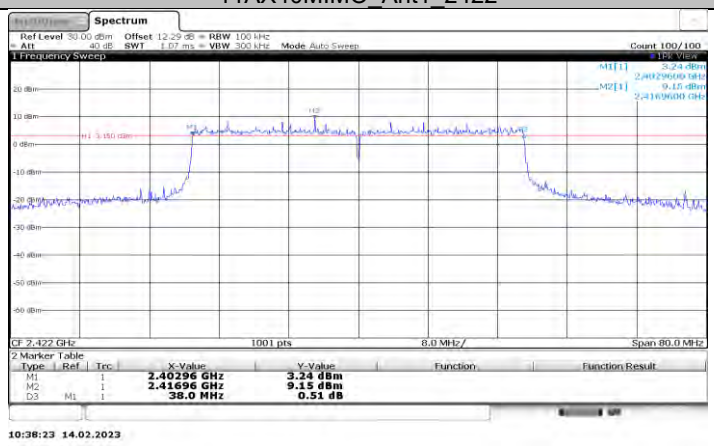


11AX20MIMO_Ant4_2462

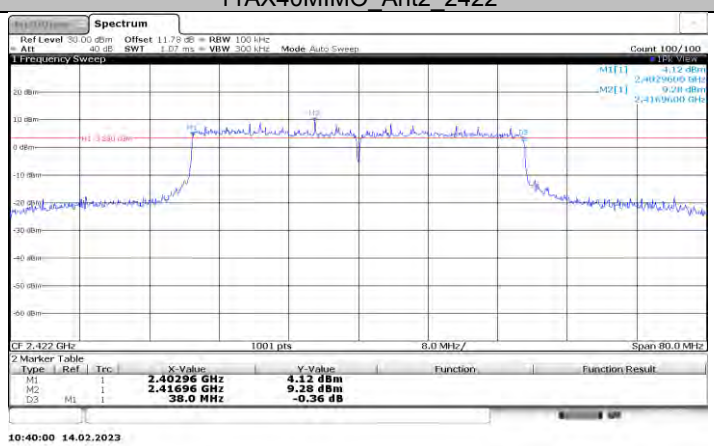
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant1_2422

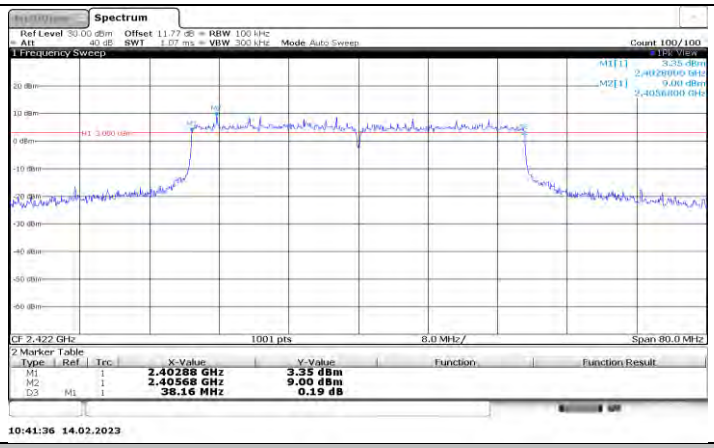


11AX40MIMO_Ant2_2422

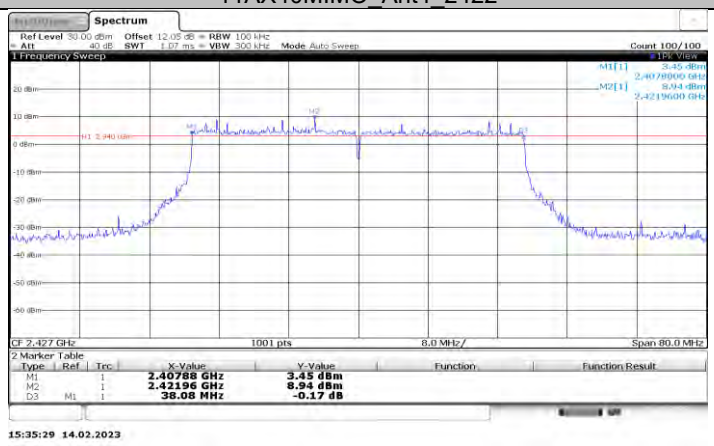


11AX40MIMO_Ant3_2422

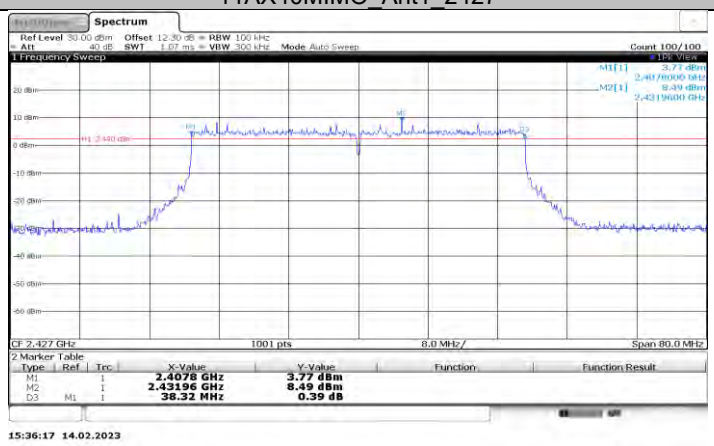
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2422

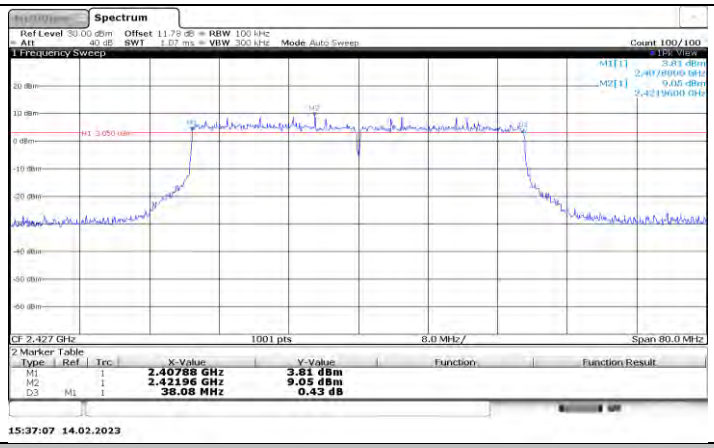


11AX40MIMO_Ant1_2427

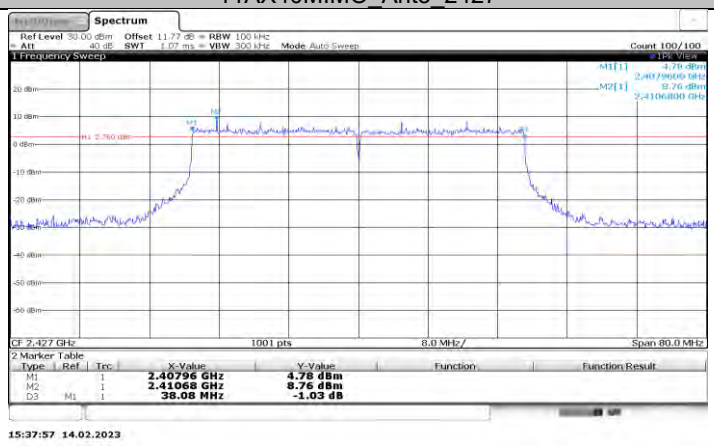


11AX40MIMO_Ant2_2427

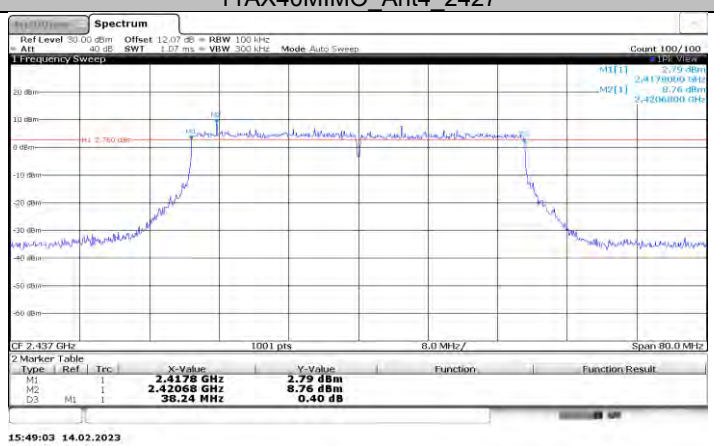
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant3_2427

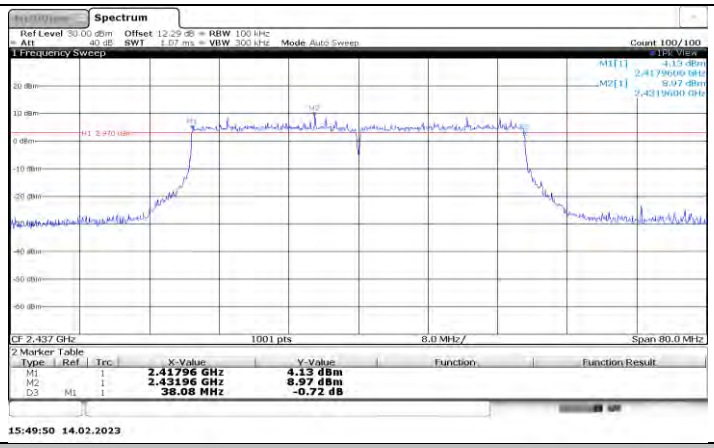


11AX40MIMO_Ant4_2427

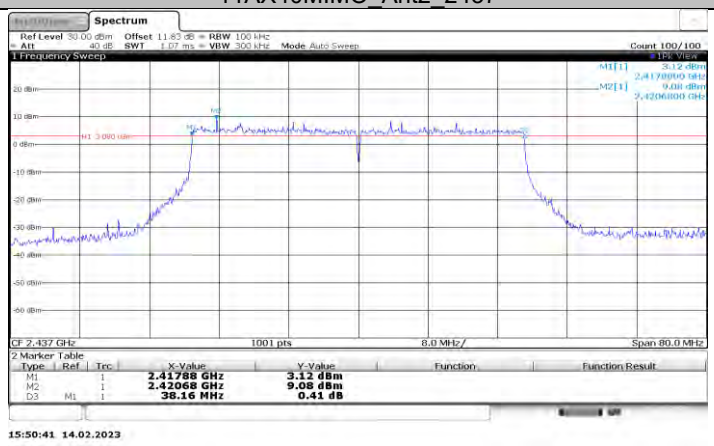


11AX40MIMO_Ant1_2437

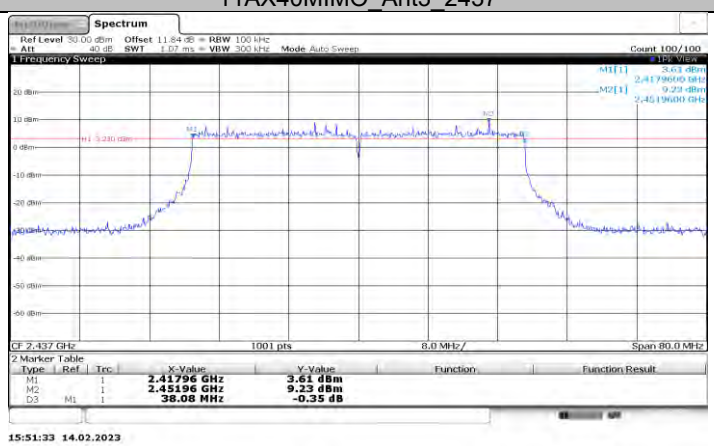
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant2_2437

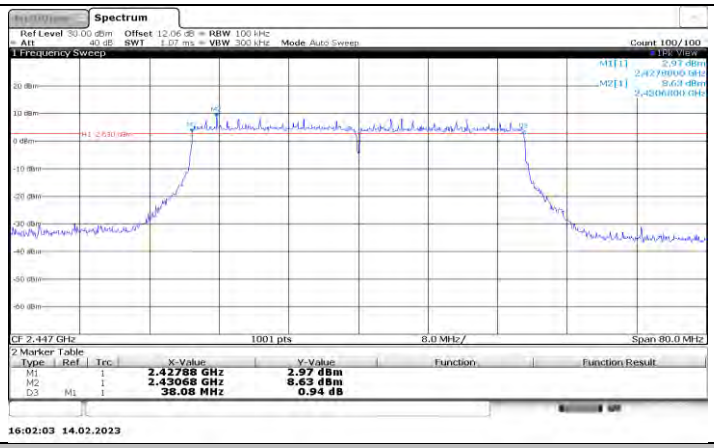


11AX40MIMO_Ant3_2437

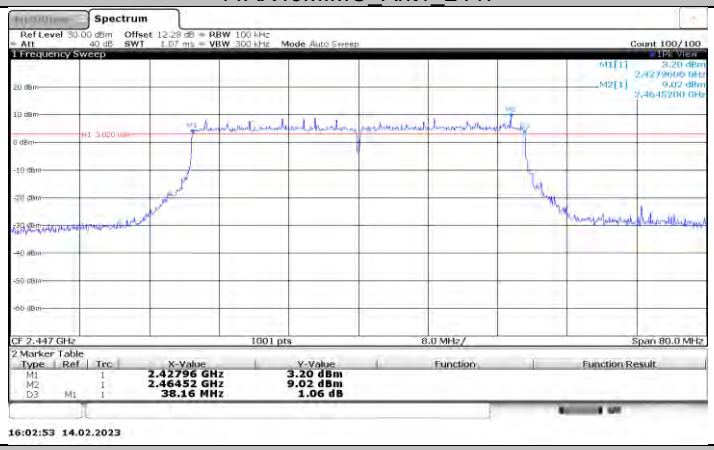


11AX40MIMO_Ant4_2437

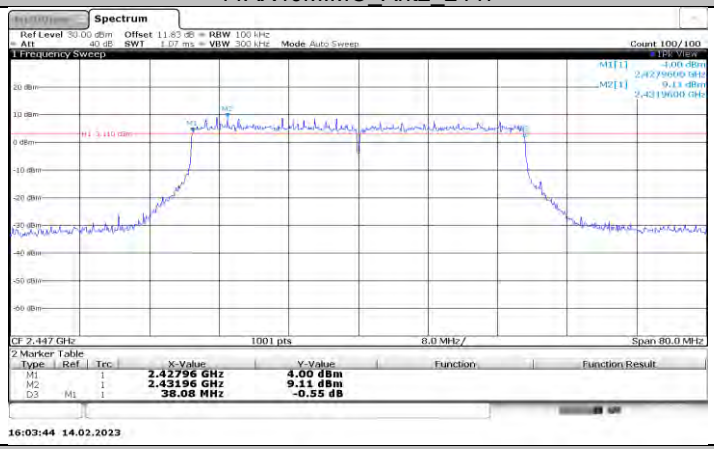
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant1_2447

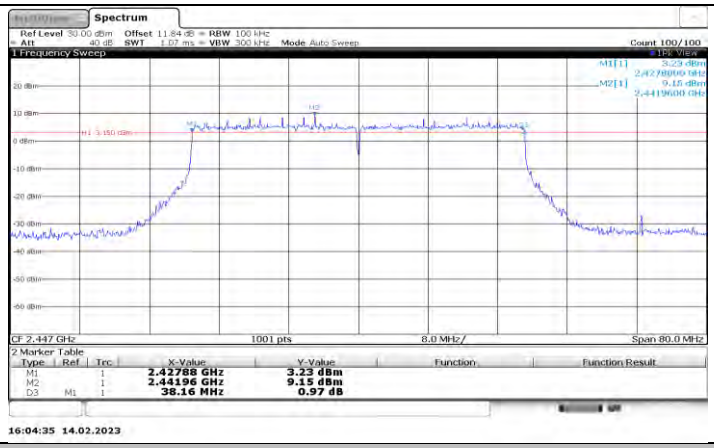


11AX40MIMO_Ant2_2447

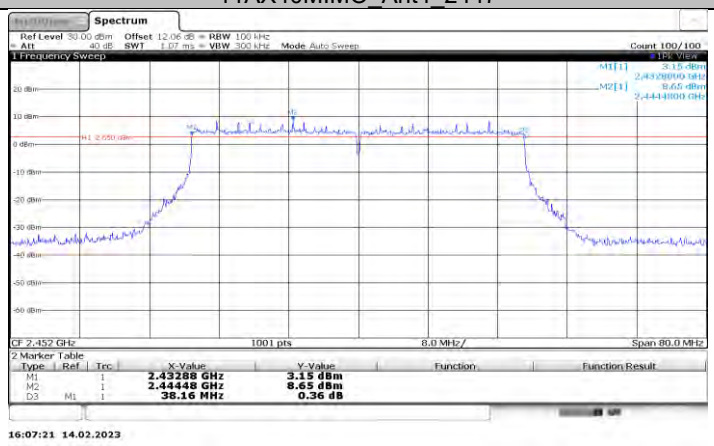


11AX40MIMO_Ant3_2447

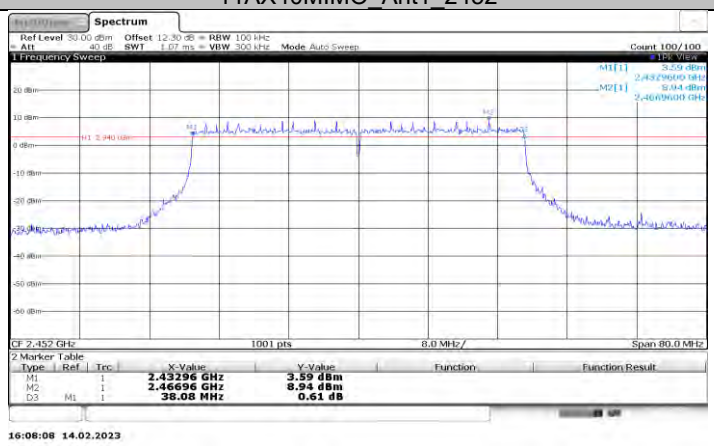
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2447

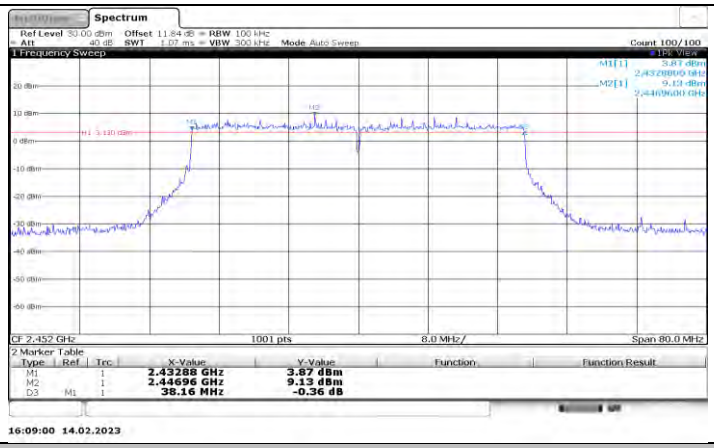


11AX40MIMO_Ant1_2452

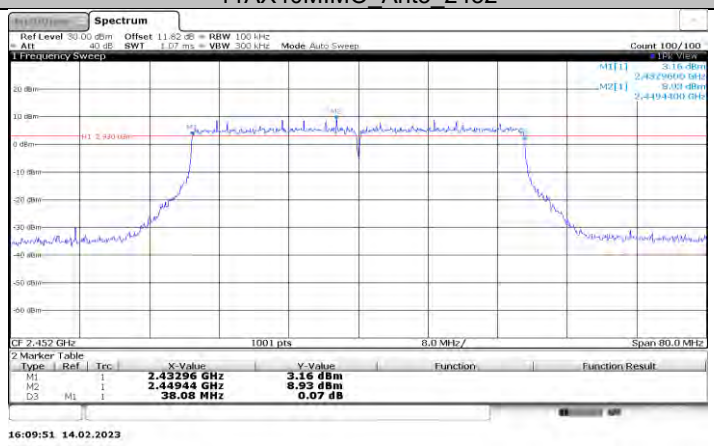


11AX40MIMO_Ant2_2452

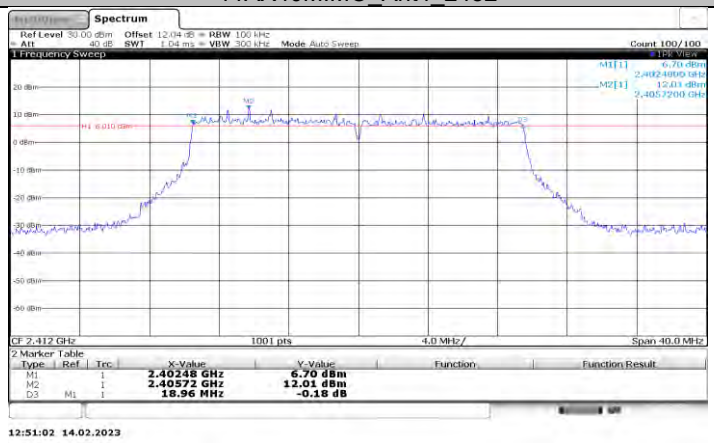
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant3_2452

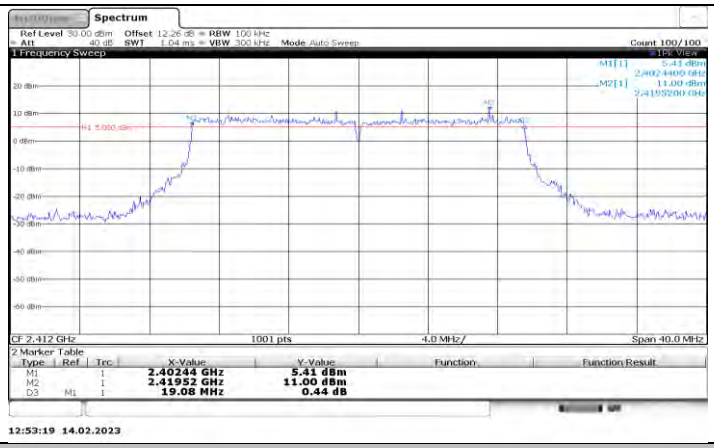


11AX40MIMO_Ant4_2452

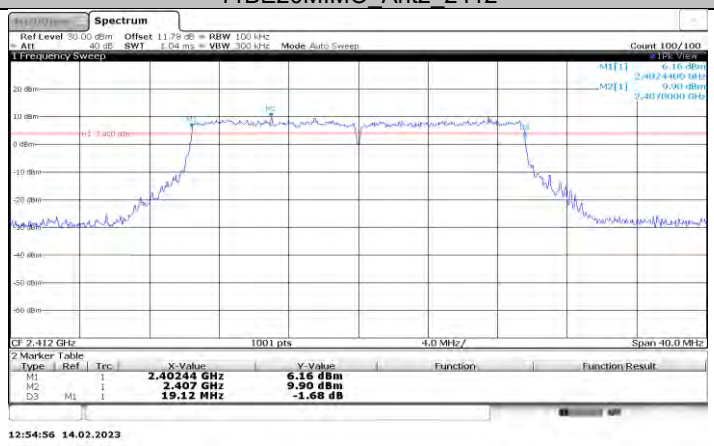


11BE20MIMO_Ant1_2412

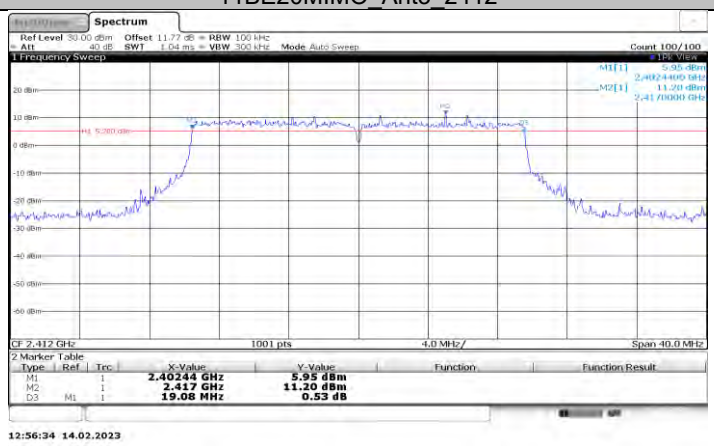
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant2_2412

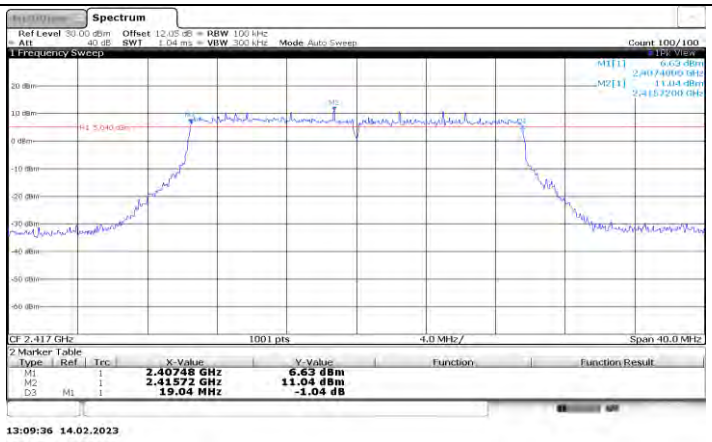


11BE20MIMO_Ant3_2412

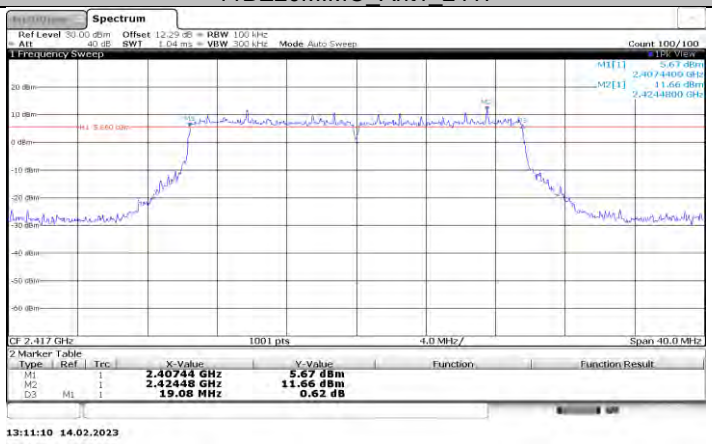


11BE20MIMO_Ant4_2412

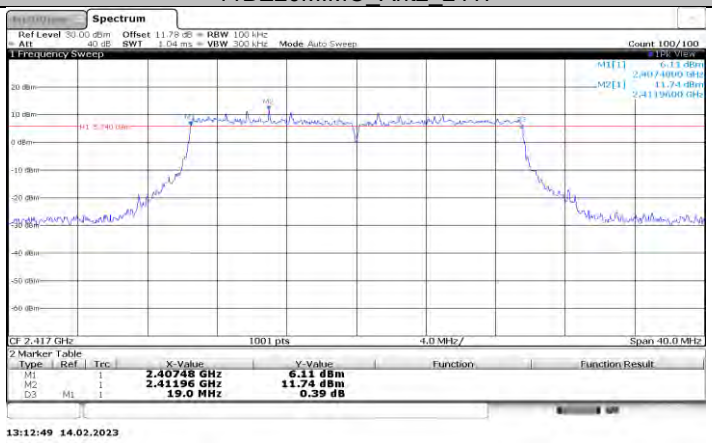
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant1_2417

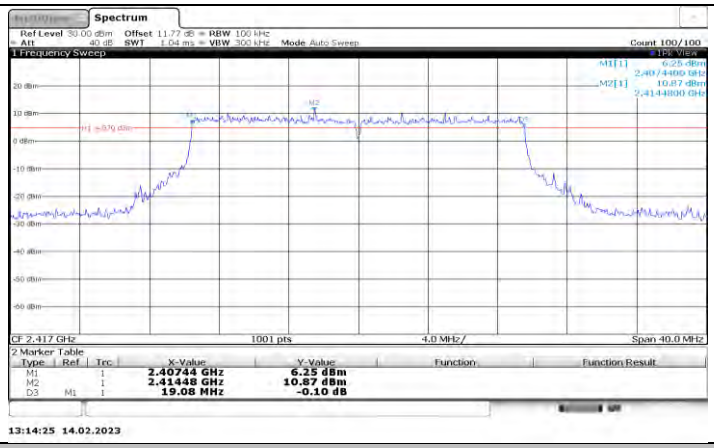


11BE20MIMO_Ant2_2417

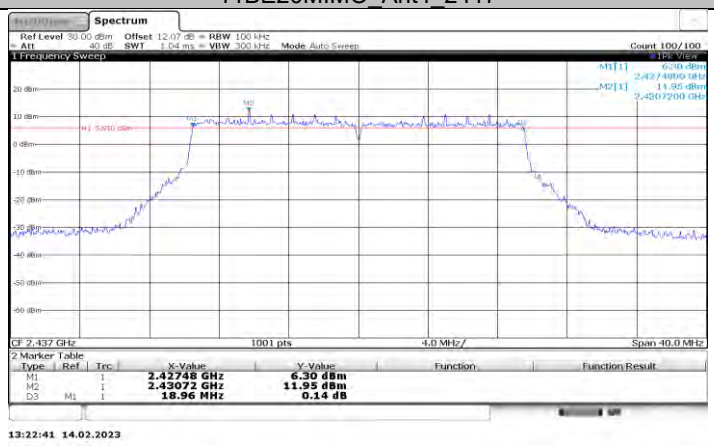


11BE20MIMO_Ant3_2417

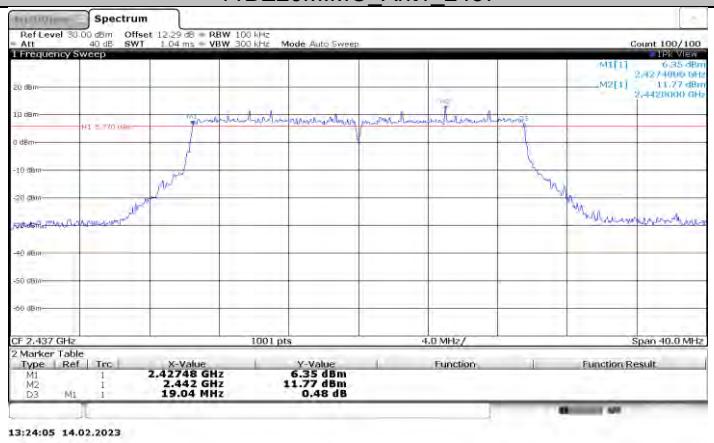
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant4_2417

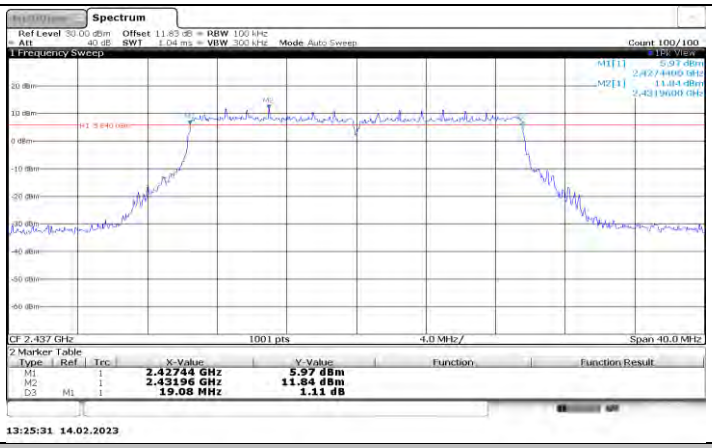


11BE20MIMO_Ant1_2437

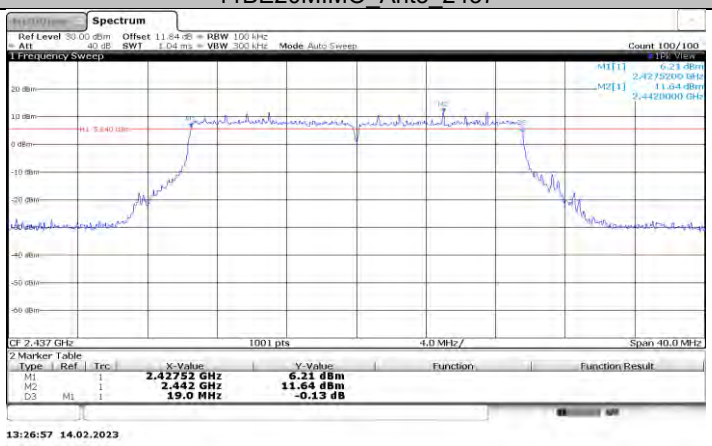


11BE20MIMO_Ant2_2437

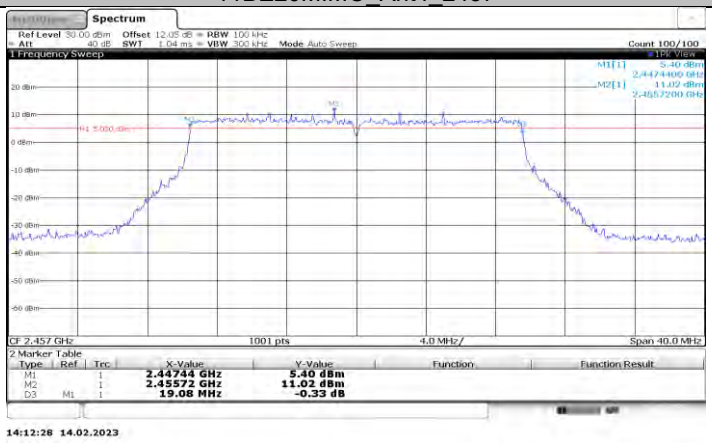
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant3_2437

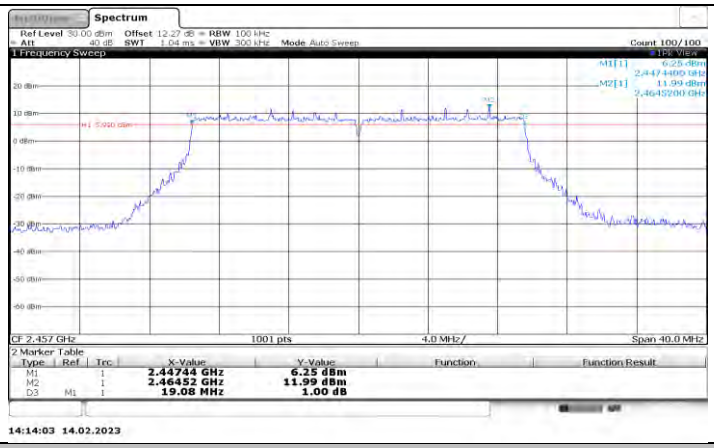


11BE20MIMO_Ant4_2437

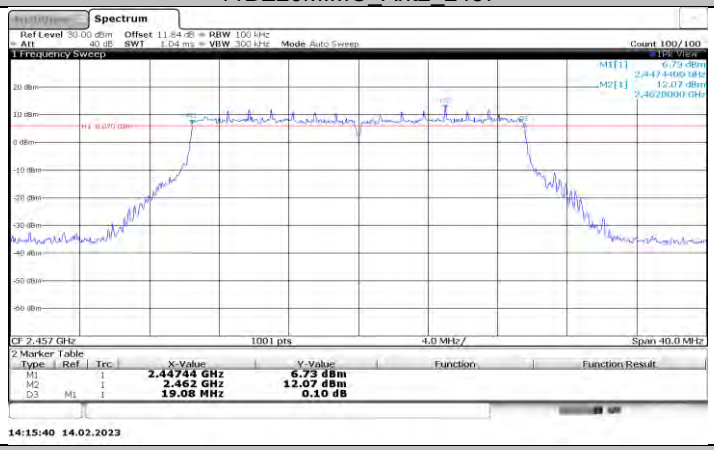


11BE20MIMO_Ant1_2457

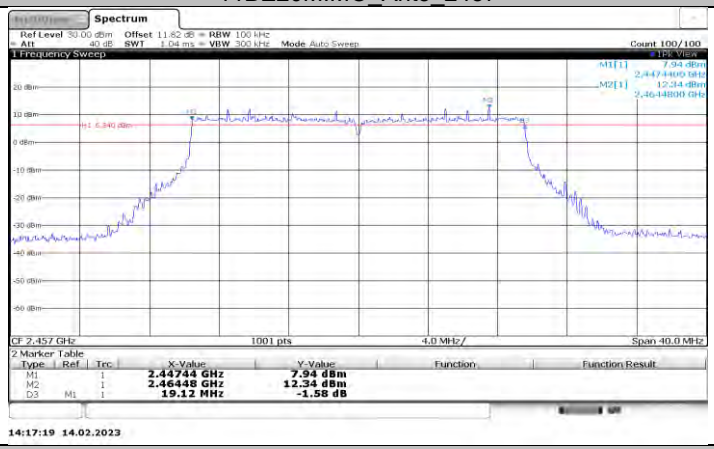
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant2_2457

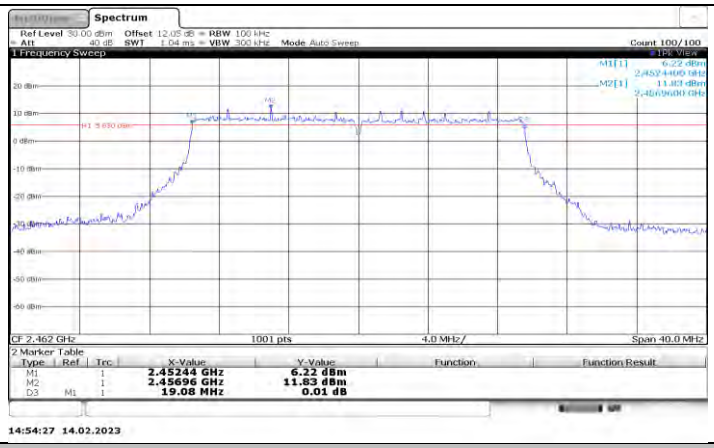


11BE20MIMO_Ant3_2457

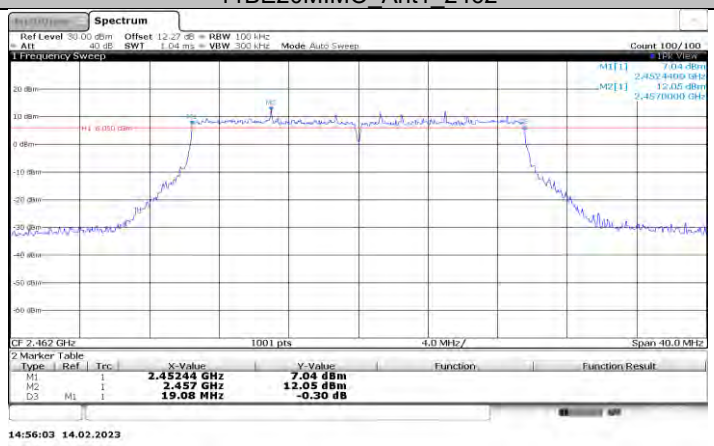


11BE20MIMO_Ant4_2457

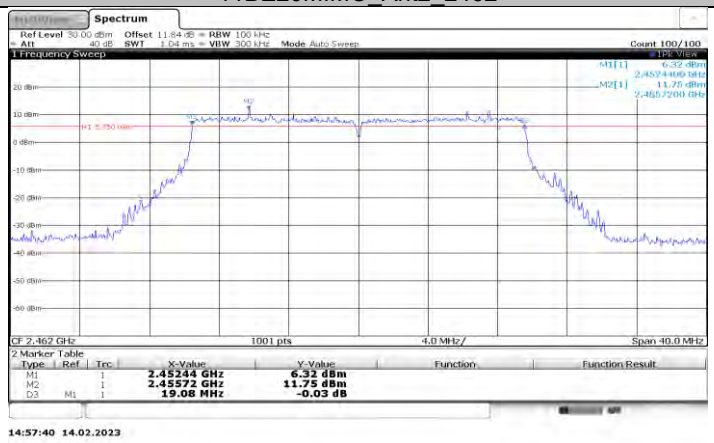
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant1_2462

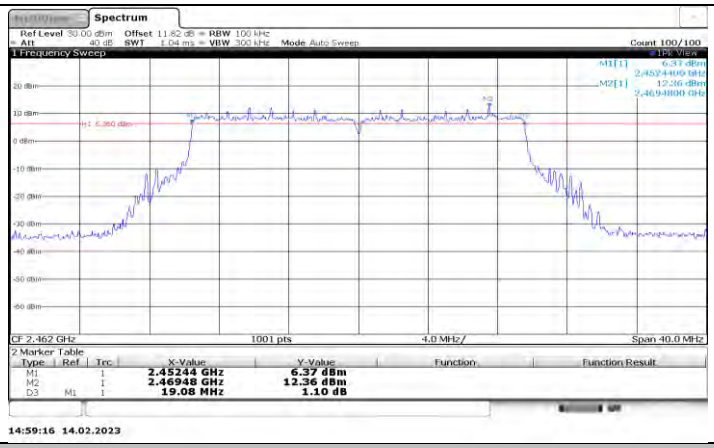


11BE20MIMO_Ant2_2462

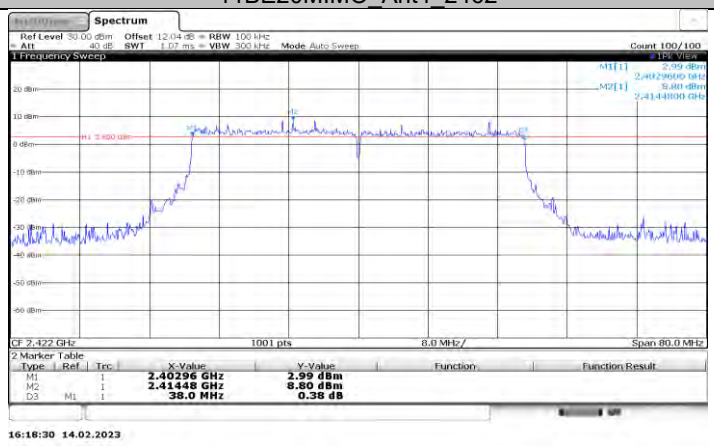


11BE20MIMO_Ant3_2462

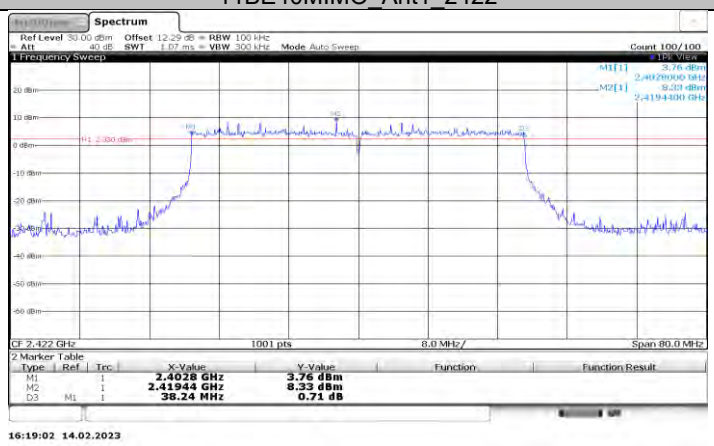
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE20MIMO_Ant4_2462

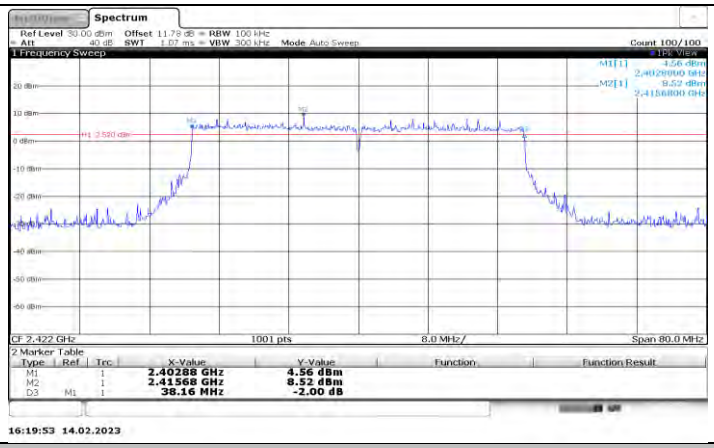


11BE40MIMO_Ant1_2422

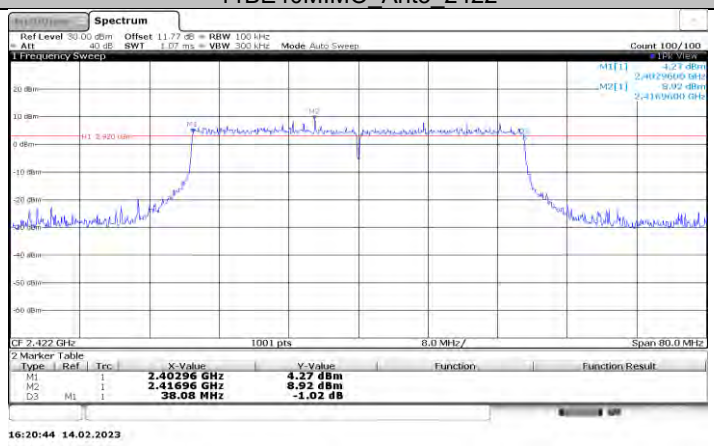


11BE40MIMO_Ant2_2422

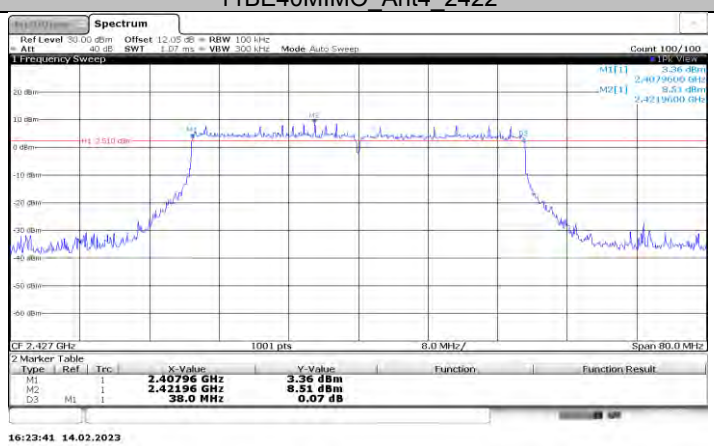
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant3_2422

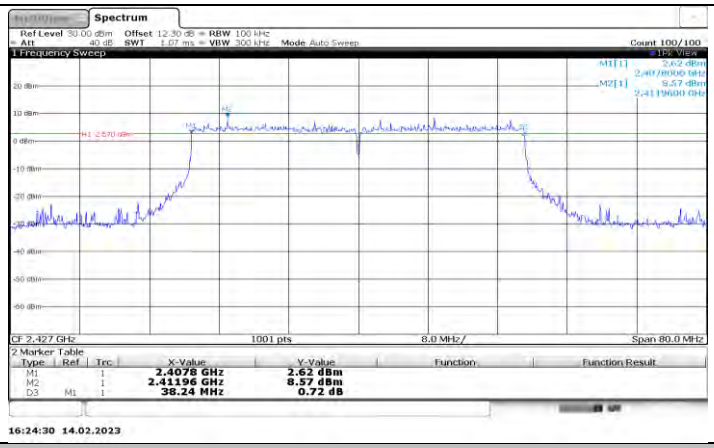


11BE40MIMO_Ant4_2422

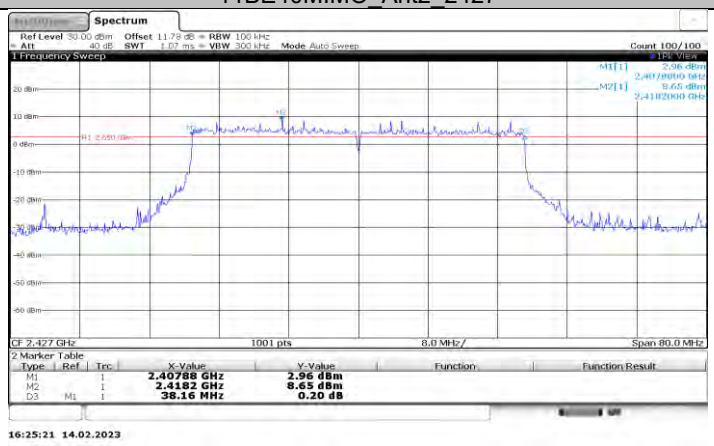


11BE40MIMO_Ant1_2427

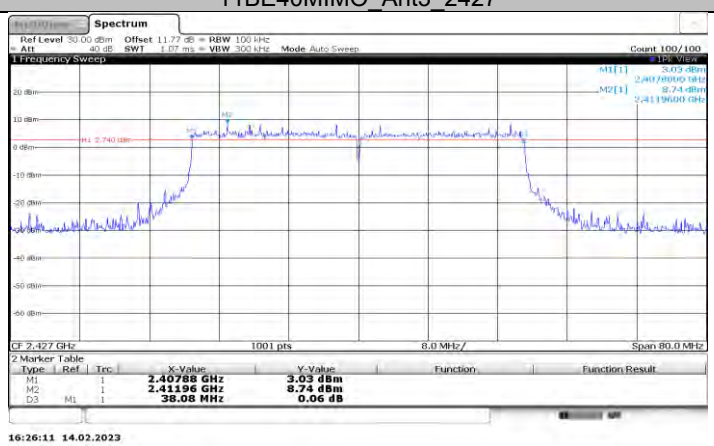
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant2_2427

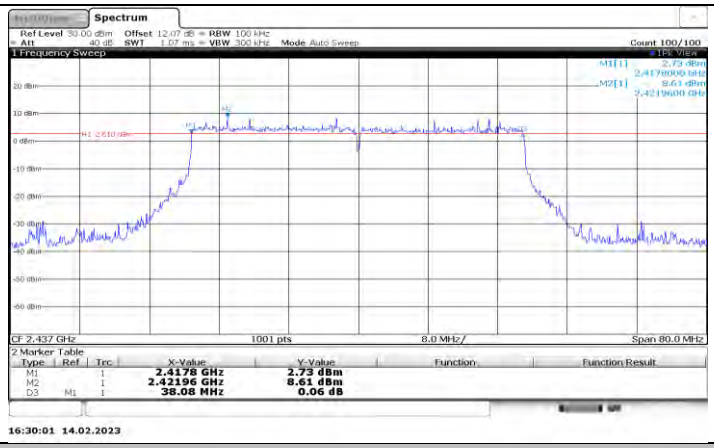


11BE40MIMO_Ant3_2427

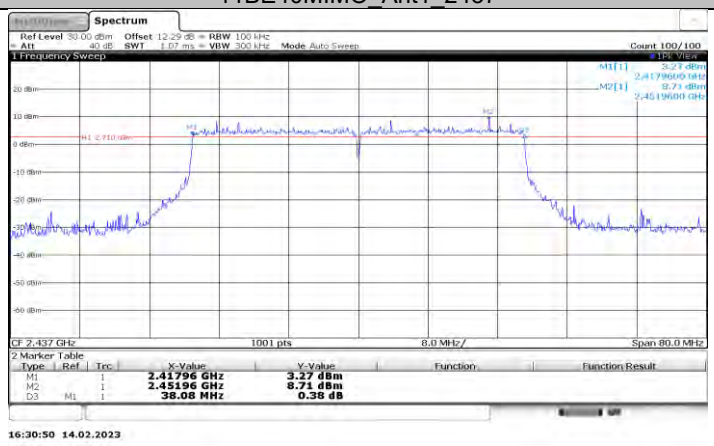


11BE40MIMO_Ant4_2427

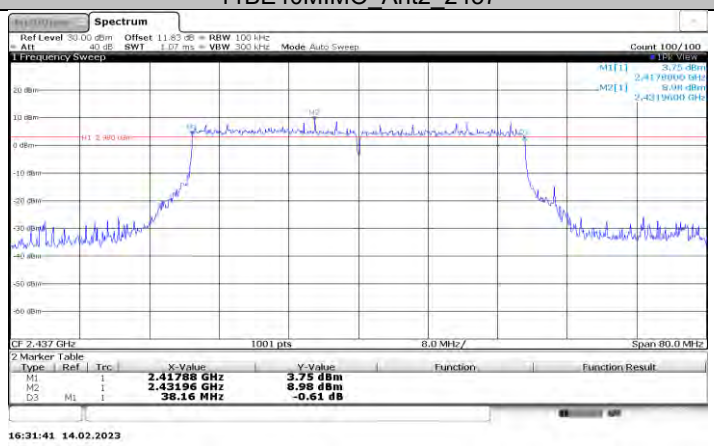
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant1_2437

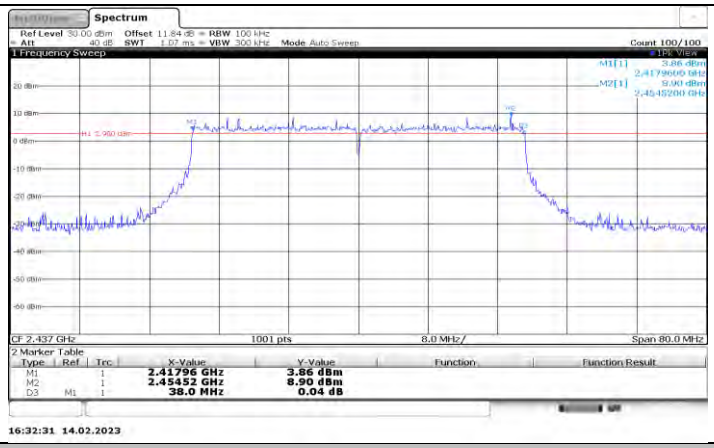


11BE40MIMO_Ant2_2437

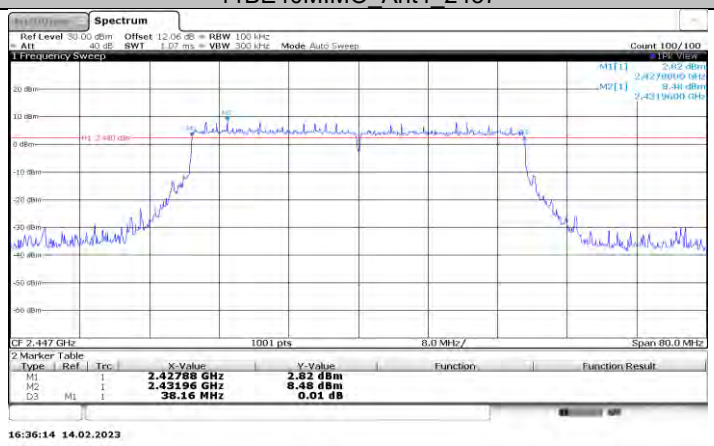


11BE40MIMO_Ant3_2437

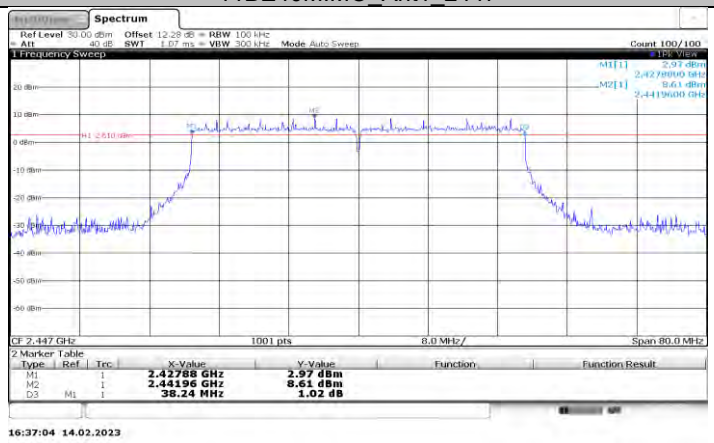
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant4_2437

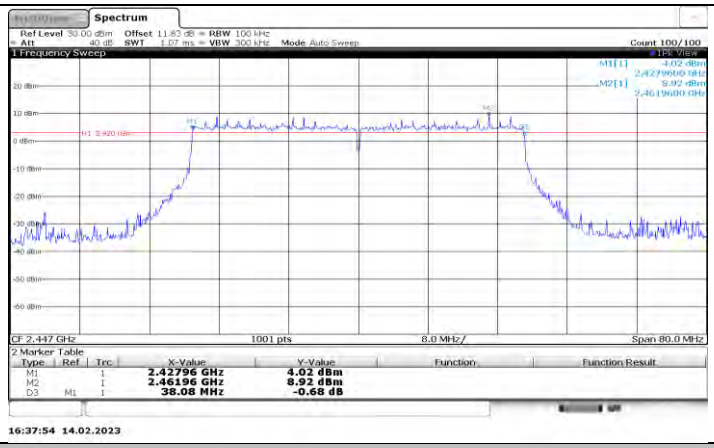


11BE40MIMO_Ant1_2447

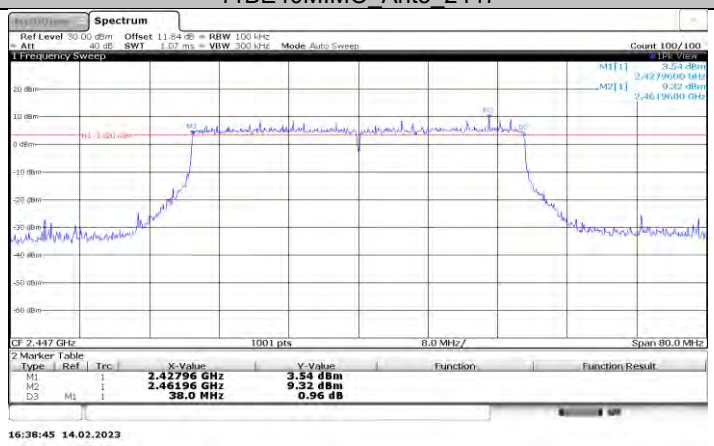


11BE40MIMO_Ant2_2447

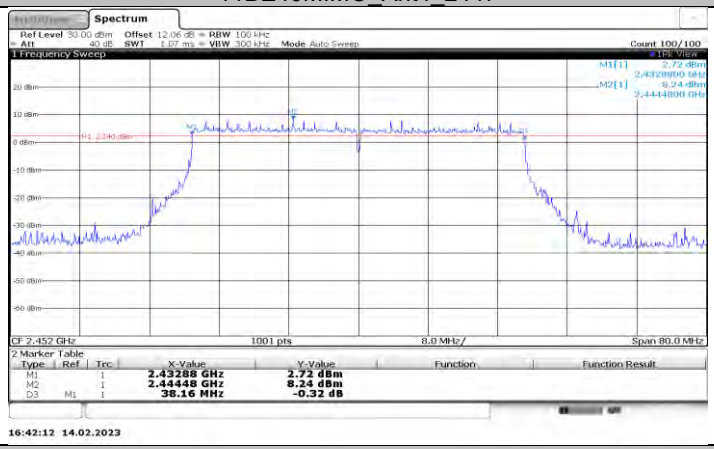
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant3_2447

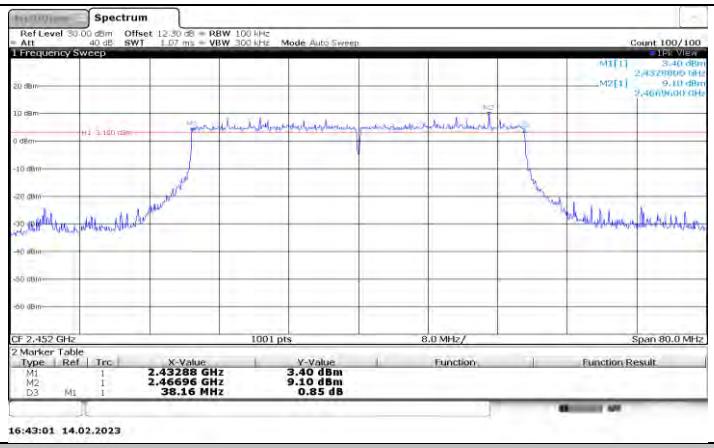


11BE40MIMO_Ant4_2447

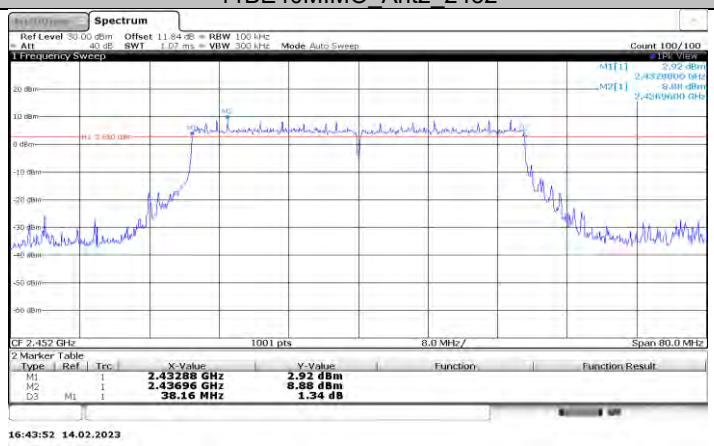


11BE40MIMO_Ant1_2452

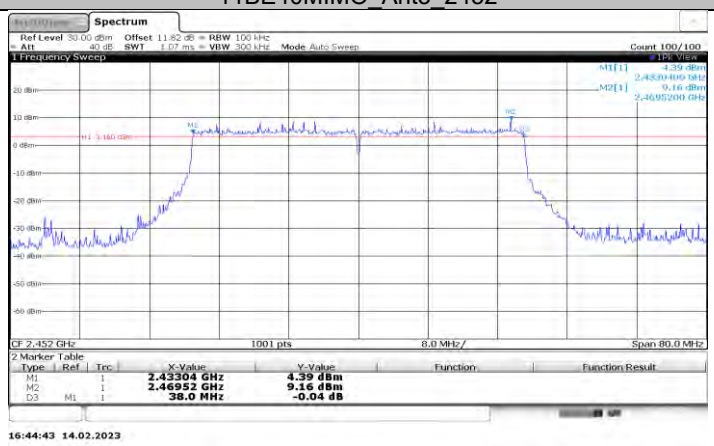
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11BE40MIMO_Ant2_2452



11BE40MIMO_Ant3_2452



11BE40MIMO_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	Ant1	2412	16.024	2403.9680	2419.9920	PASS
	Ant2	2412	16.024	2404.0080	2420.0320	PASS
	Ant3	2412	15.984	2404.0080	2419.9920	PASS
	Ant4	2412	15.984	2404.0080	2419.9920	PASS
	Ant1	2417	16.024	2408.9680	2424.9920	PASS
	Ant2	2417	16.024	2409.0080	2425.0320	PASS
	Ant3	2417	16.064	2408.9680	2425.0320	PASS
	Ant4	2417	16.064	2408.9680	2425.0320	PASS
	Ant1	2437	16.024	2429.0080	2445.0320	PASS
	Ant2	2437	16.024	2429.0480	2445.0719	PASS
	Ant3	2437	16.024	2429.0080	2445.0320	PASS
	Ant4	2437	15.984	2429.0480	2445.0320	PASS
	Ant1	2457	15.984	2449.0080	2464.9920	PASS
	Ant2	2457	15.984	2449.0480	2465.0320	PASS
	Ant3	2457	15.984	2449.0480	2465.0320	PASS
	Ant4	2457	16.024	2449.0480	2465.0719	PASS
	Ant1	2462	15.984	2454.0080	2469.9920	PASS
	Ant2	2462	15.984	2454.0480	2470.0320	PASS
	Ant3	2462	15.984	2454.0480	2470.0320	PASS
	Ant4	2462	15.984	2454.0480	2470.0320	PASS
11G-CDD	Ant1	2412	17.782	2402.9291	2420.7113	PASS
	Ant2	2412	17.742	2403.0490	2420.7912	PASS
	Ant3	2412	17.622	2403.1289	2420.7512	PASS
	Ant4	2412	17.542	2403.1289	2420.6713	PASS
	Ant1	2417	17.702	2408.0090	2425.7113	PASS
	Ant2	2417	17.742	2408.0889	2425.8312	PASS
	Ant3	2417	17.662	2408.0889	2425.7512	PASS
	Ant4	2417	17.622	2408.0889	2425.7113	PASS
	Ant1	2437	17.742	2428.0090	2445.7512	PASS
	Ant2	2437	17.702	2428.1289	2445.8312	PASS
	Ant3	2437	17.582	2428.1289	2445.7113	PASS
	Ant4	2437	17.542	2428.1688	2445.7113	PASS
	Ant1	2457	17.702	2448.0090	2465.7113	PASS
	Ant2	2457	17.582	2448.1688	2465.7512	PASS
	Ant3	2457	17.582	2448.1688	2465.7512	PASS
	Ant4	2457	17.463	2448.2088	2465.6713	PASS
	Ant1	2462	17.702	2453.0090	2470.7113	PASS
	Ant2	2462	17.582	2453.1688	2470.7512	PASS
	Ant3	2462	17.582	2453.1688	2470.7512	PASS
	Ant4	2462	17.423	2453.2488	2470.6713	PASS
11AX20MIMO	Ant1	2412	19.381	2402.3297	2421.7103	PASS
	Ant2	2412	19.461	2402.3297	2421.7902	PASS
	Ant3	2412	19.381	2402.3696	2421.7502	PASS
	Ant4	2412	19.381	2402.2897	2421.6703	PASS
	Ant1	2417	19.301	2407.3696	2426.6703	PASS
	Ant2	2417	19.421	2407.2897	2426.7103	PASS
	Ant3	2417	19.381	2407.3297	2426.7103	PASS
	Ant4	2417	19.381	2407.3297	2426.7103	PASS
	Ant1	2437	19.341	2427.3297	2446.6703	PASS
	Ant2	2437	19.381	2427.3297	2446.7103	PASS
	Ant3	2437	19.381	2427.3297	2446.7103	PASS
	Ant4	2437	19.341	2427.3696	2446.7103	PASS
	Ant1	2457	19.341	2447.3297	2466.6703	PASS
	Ant2	2457	19.381	2447.3297	2466.7103	PASS
	Ant3	2457	19.381	2447.3297	2466.7103	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.

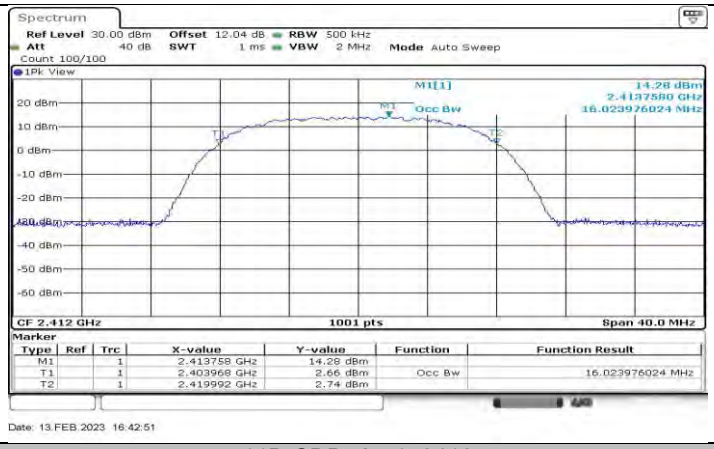
	Ant4	2457	19.341	2447.3696	2466.7103	PASS
	Ant1	2462	19.341	2452.3297	2471.6703	PASS
	Ant2	2462	19.341	2452.3696	2471.7103	PASS
	Ant3	2462	19.381	2452.3696	2471.7502	PASS
	Ant4	2462	19.341	2452.3696	2471.7103	PASS
11AX40MIMO	Ant1	2422	38.945	2402.4414	2441.3868	PASS
	Ant2	2422	38.773	2402.6202	2441.3933	PASS
	Ant3	2422	38.71	2402.5310	2441.2410	PASS
	Ant4	2422	38.775	2402.5324	2441.3073	PASS
	Ant1	2427	38.403	2407.7248	2446.1275	PASS
	Ant2	2427	38.573	2407.7015	2446.2742	PASS
	Ant3	2427	38.517	2407.7091	2446.2260	PASS
	Ant4	2427	38.663	2407.5872	2446.2498	PASS
	Ant1	2437	38.453	2417.6990	2456.1519	PASS
	Ant2	2437	38.502	2417.7325	2456.2343	PASS
	Ant3	2437	38.536	2417.6988	2456.2347	PASS
	Ant4	2437	38.516	2417.7181	2456.2338	PASS
	Ant1	2447	38.489	2427.6650	2466.1544	PASS
	Ant2	2447	38.512	2427.7661	2466.2783	PASS
	Ant3	2447	38.506	2427.7088	2466.2149	PASS
	Ant4	2447	38.61	2427.6955	2466.3060	PASS
	Ant1	2452	38.549	2432.6394	2471.1882	PASS
	Ant2	2452	38.509	2432.7938	2471.3025	PASS
	Ant3	2452	38.478	2432.7389	2471.2167	PASS
	Ant4	2452	38.499	2432.7526	2471.2516	PASS
11BE20MIMO	Ant1	2412	19.347	2402.2667	2421.6133	PASS
	Ant2	2412	19.306	2402.3065	2421.6130	PASS
	Ant3	2412	19.441	2402.2205	2421.6617	PASS
	Ant4	2412	19.353	2402.3124	2421.6651	PASS
	Ant1	2417	19.386	2407.2558	2426.6422	PASS
	Ant2	2417	19.362	2407.3039	2426.6656	PASS
	Ant3	2417	19.422	2407.2732	2426.6953	PASS
	Ant4	2417	19.342	2407.3102	2426.6522	PASS
	Ant1	2437	19.348	2427.3034	2446.6518	PASS
	Ant2	2437	19.412	2427.3078	2446.7198	PASS
	Ant3	2437	19.453	2427.2330	2446.6865	PASS
	Ant4	2437	19.402	2427.3186	2446.7207	PASS
	Ant1	2457	19.335	2447.3073	2466.6428	PASS
	Ant2	2457	19.351	2447.3324	2466.6838	PASS
	Ant3	2457	19.414	2447.2801	2466.6945	PASS
	Ant4	2457	19.379	2447.3117	2466.6903	PASS
	Ant1	2462	19.388	2452.2860	2471.6744	PASS
	Ant2	2462	19.345	2452.3641	2471.7095	PASS
	Ant3	2462	19.375	2452.3196	2471.6950	PASS
	Ant4	2462	19.344	2452.3288	2471.6725	PASS
11BE40MIMO	Ant1	2422	38.587	2402.6574	2441.2445	PASS
	Ant2	2422	38.489	2402.7263	2441.2157	PASS
	Ant3	2422	38.505	2402.6398	2441.1452	PASS
	Ant4	2422	38.574	2402.6624	2441.2368	PASS
	Ant1	2427	38.628	2407.5588	2446.1871	PASS
	Ant2	2427	38.567	2407.6834	2446.2507	PASS
	Ant3	2427	38.611	2407.5696	2446.1802	PASS
	Ant4	2427	38.47	2407.7261	2446.1960	PASS
	Ant1	2437	38.553	2417.6464	2456.1999	PASS
	Ant2	2437	38.615	2417.7150	2456.3303	PASS
	Ant3	2437	38.528	2417.6790	2456.2067	PASS
	Ant4	2437	38.593	2417.7025	2456.2953	PASS
	Ant1	2447	38.464	2427.6674	2466.1311	PASS
	Ant2	2447	38.502	2427.7424	2466.2443	PASS
	Ant3	2447	38.557	2427.6880	2466.2452	PASS
	Ant4	2447	38.513	2427.7492	2466.2621	PASS
	Ant1	2452	38.545	2432.6799	2471.2251	PASS
	Ant2	2452	38.537	2432.7774	2471.3144	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.

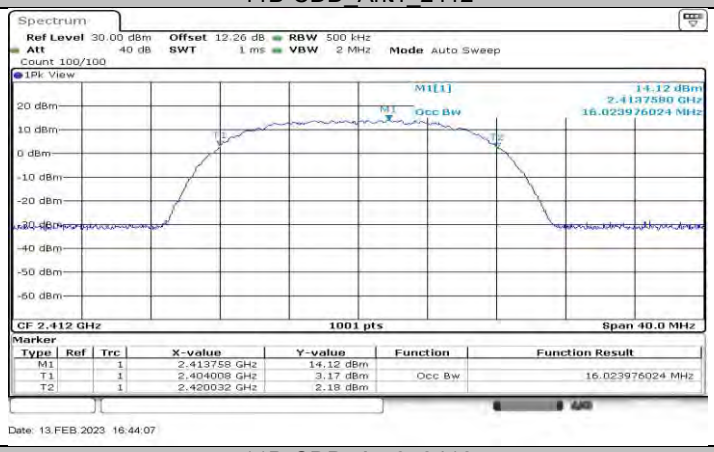
	Ant3	2452	38.5	2432.7396	2471.2398	PASS
	Ant4	2452	38.366	2432.8130	2471.1791	PASS

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

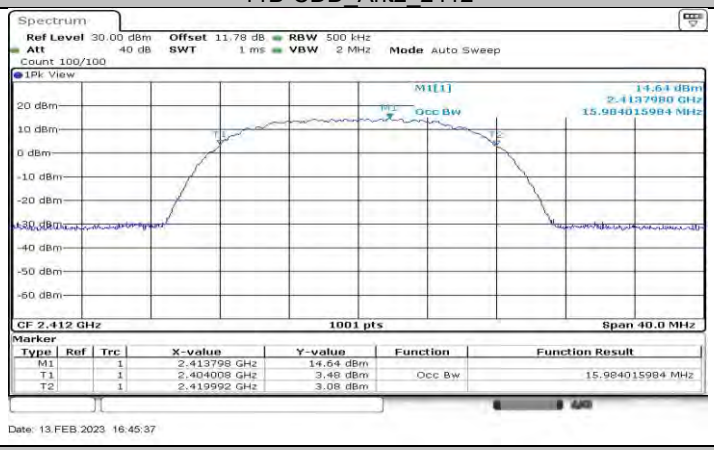
11.2.2. Test Graphs



11B-CDD_Ant1_2412

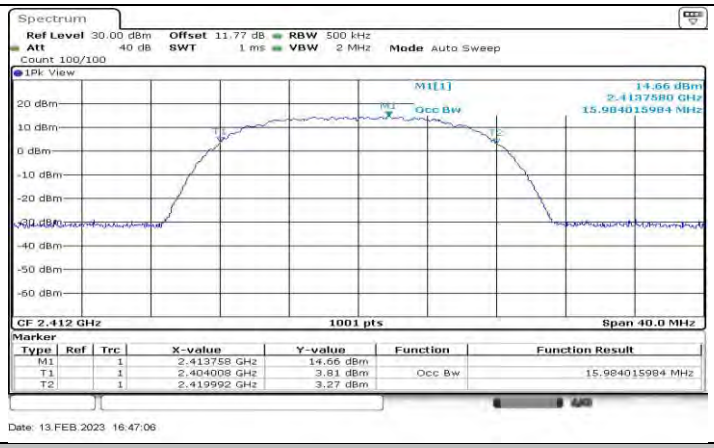


11B-CDD_Ant2_2412



11B-CDD_Ant3_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.

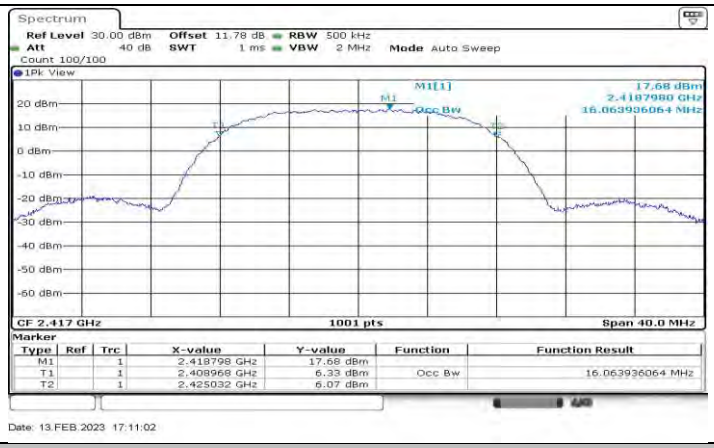


11B-CDD_Ant4_2412

11B-CDD_Ant1_2417

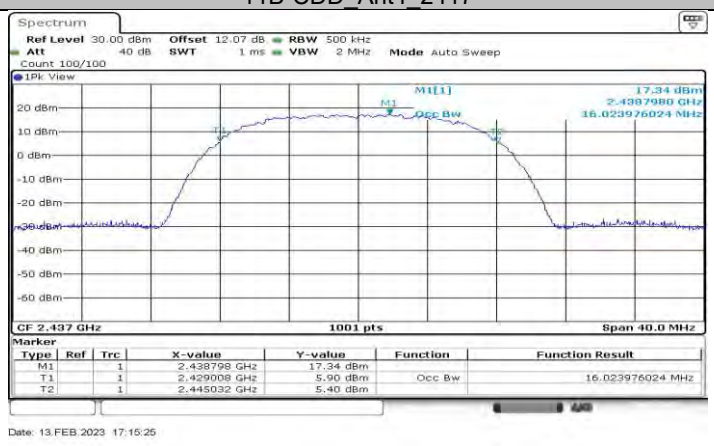
11B-CDD_Ant2_2417

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_Ant3_2417

11B-CDD_Ant4_2417

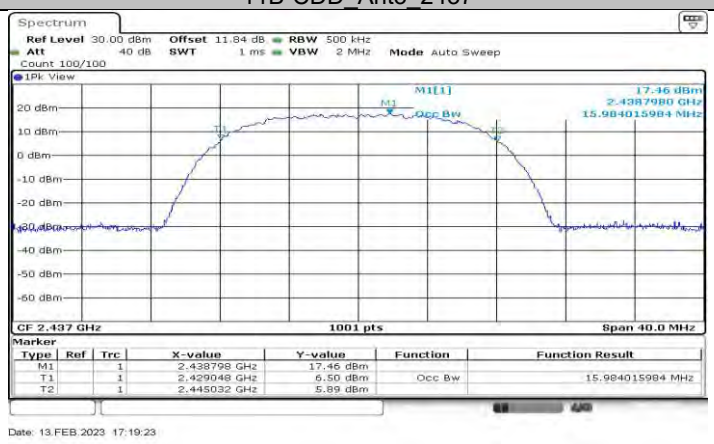


11B-CDD_Ant1_2437

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

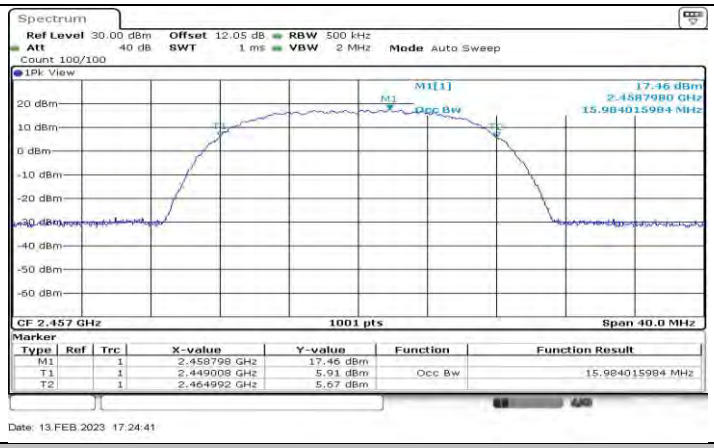
11B-CDD_Ant2_2437

11B-CDD_Ant3_2437

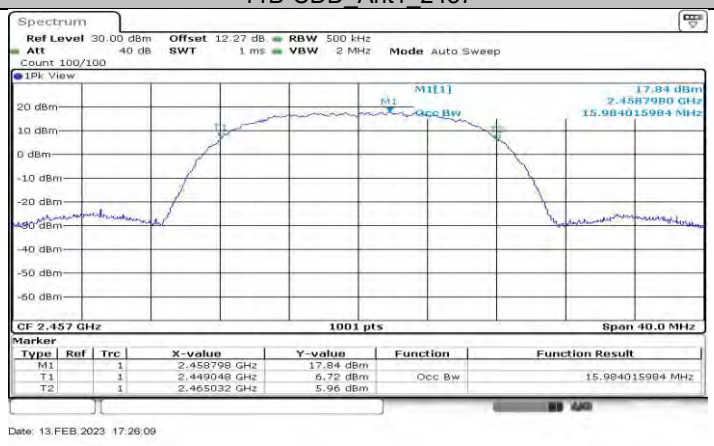


11B-CDD_Ant4_2437

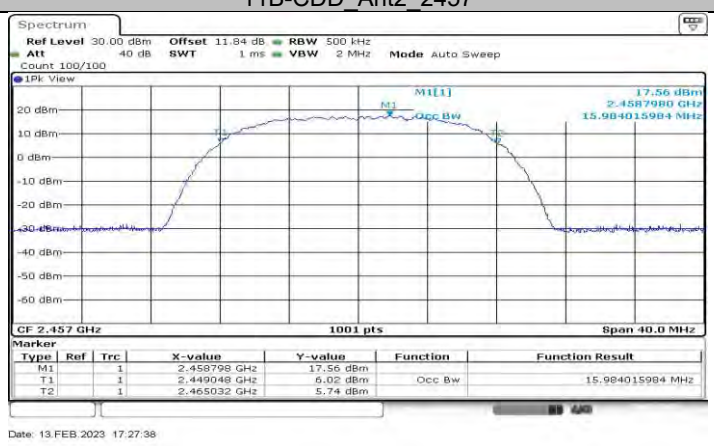
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant1_2457

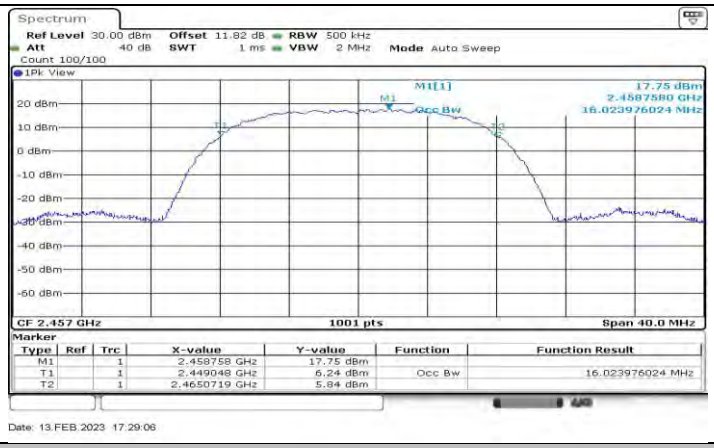


11B-CDD_Ant2_2457

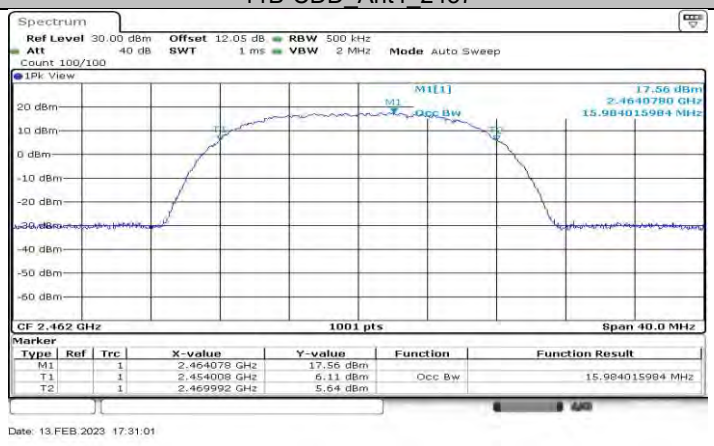


11B-CDD_Ant3_2457

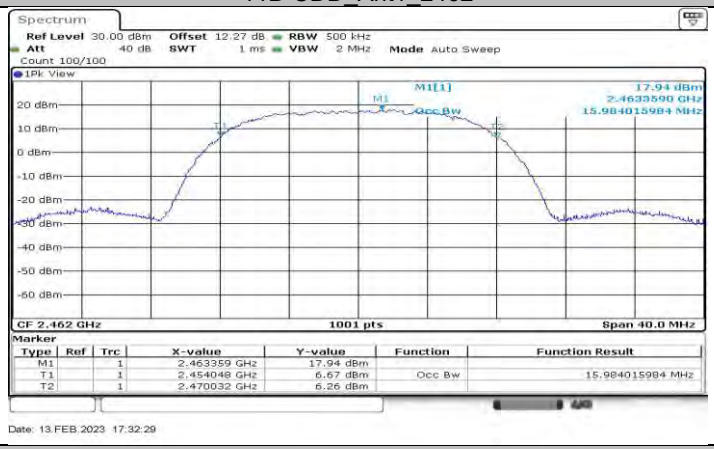
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant4_2457

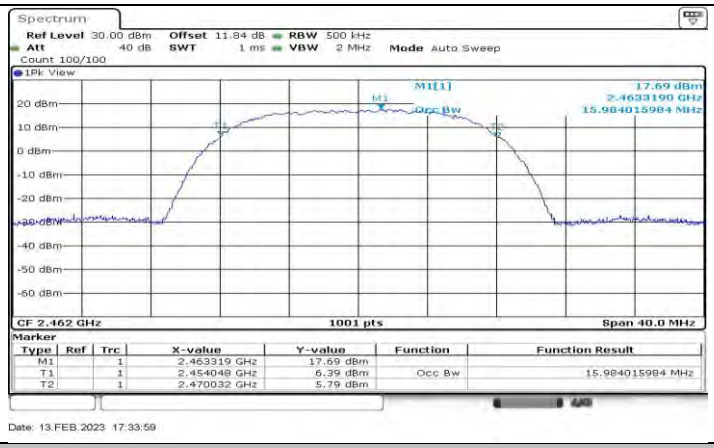


11B-CDD_Ant1_2462

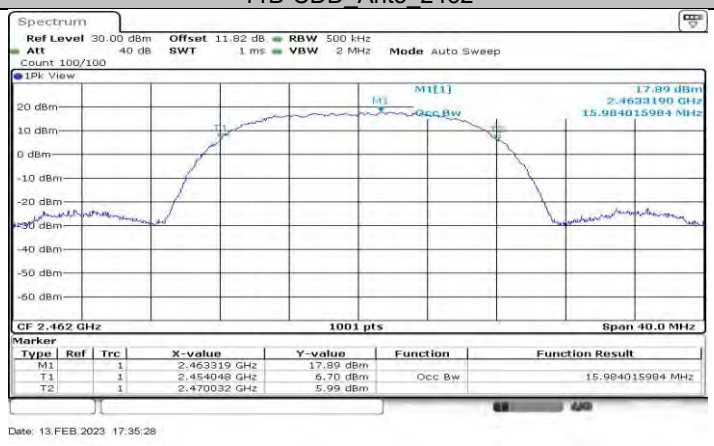


11B-CDD_Ant2_2462

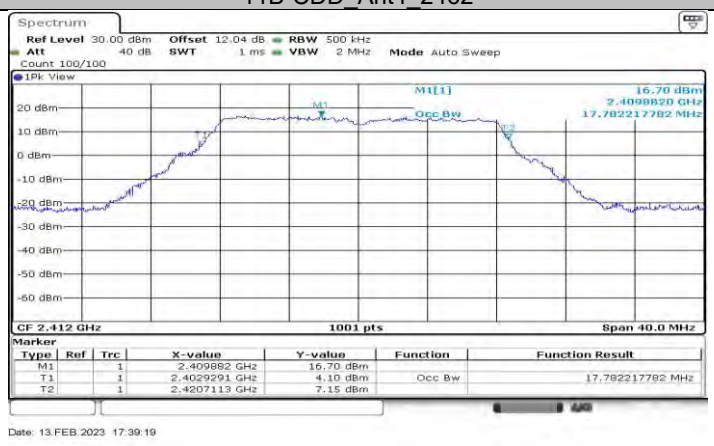
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11B-CDD_Ant3_2462

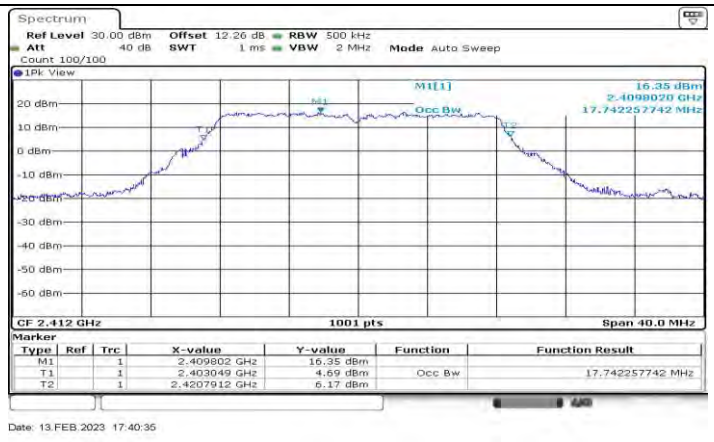


11B-CDD_Ant4_2462



11G-CDD_Ant1_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.

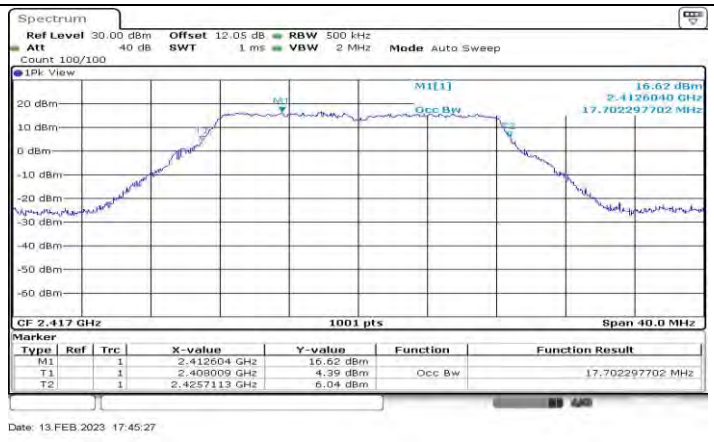


11G-CDD_Ant2_2412

11G-CDD_Ant3_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.

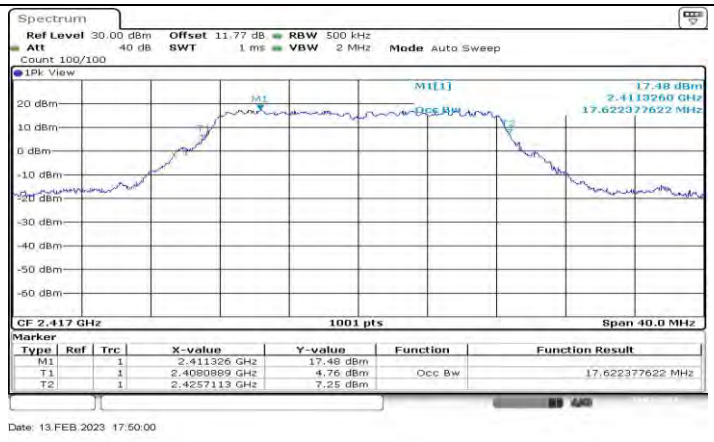


11G-CDD_Ant1_2417

11G-CDD_Ant2_2417

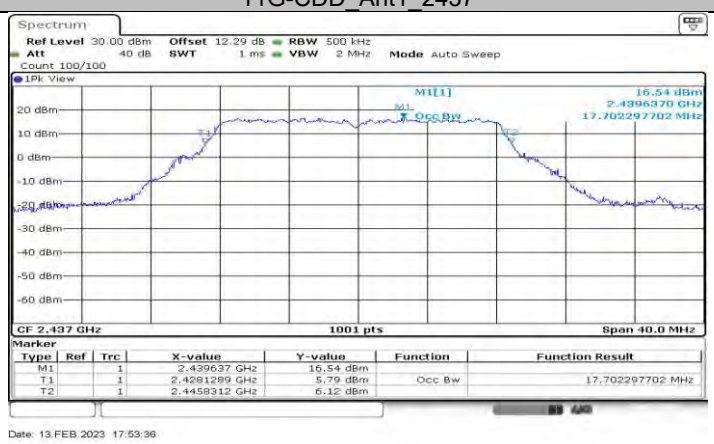
11G-CDD_Ant3_2417

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



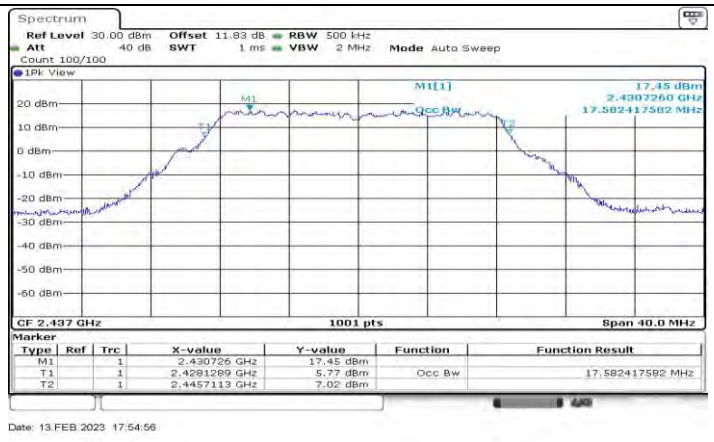
11G-CDD_Ant4_2417

11G-CDD_Ant1_2437

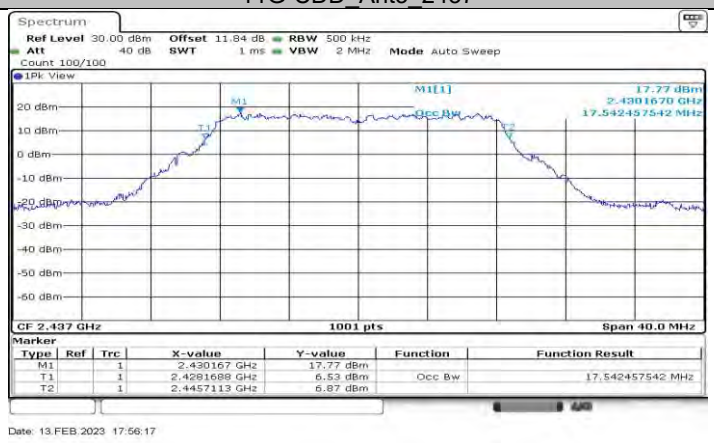


11G-CDD_Ant2_2437

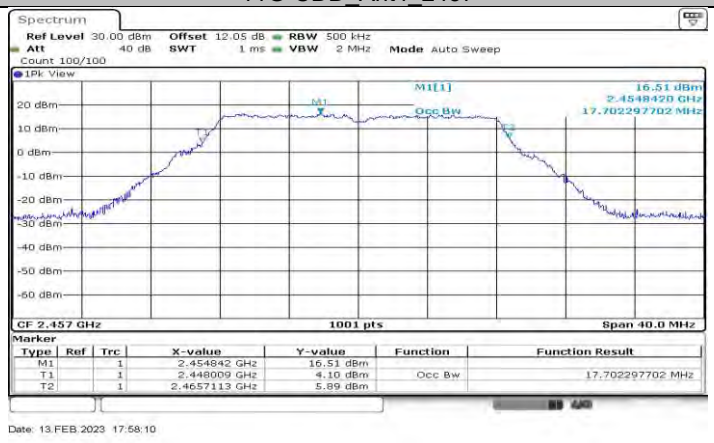
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant3_2437

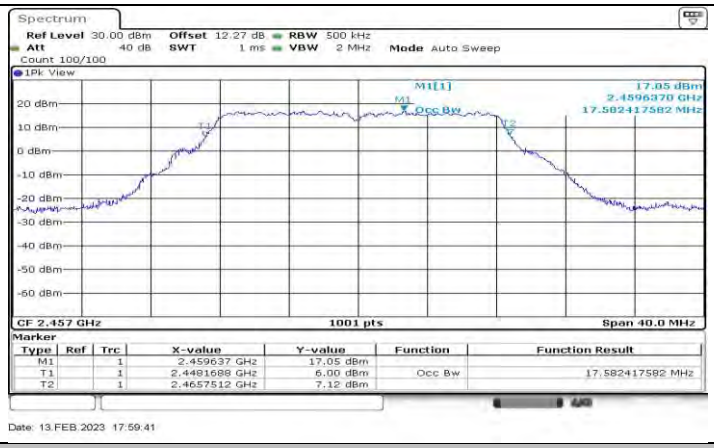


11G-CDD_Ant4_2437

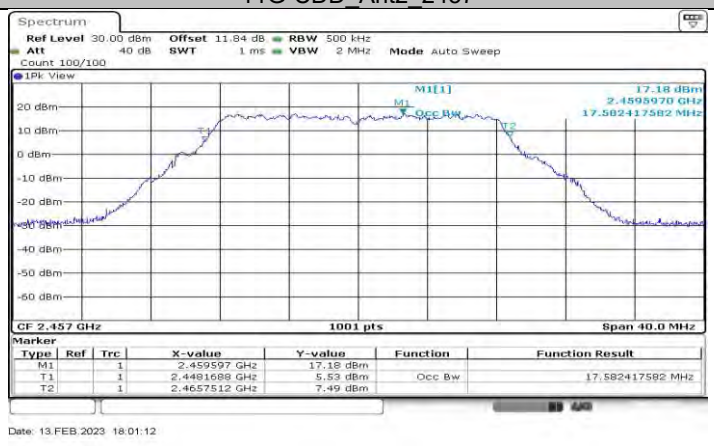


11G-CDD_Ant1_2457

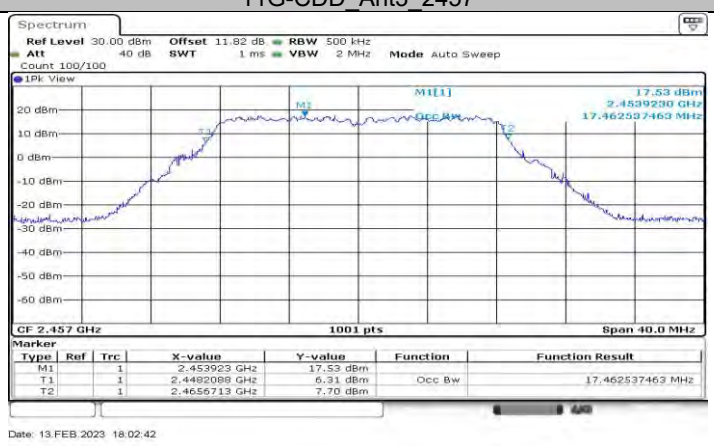
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant2_2457

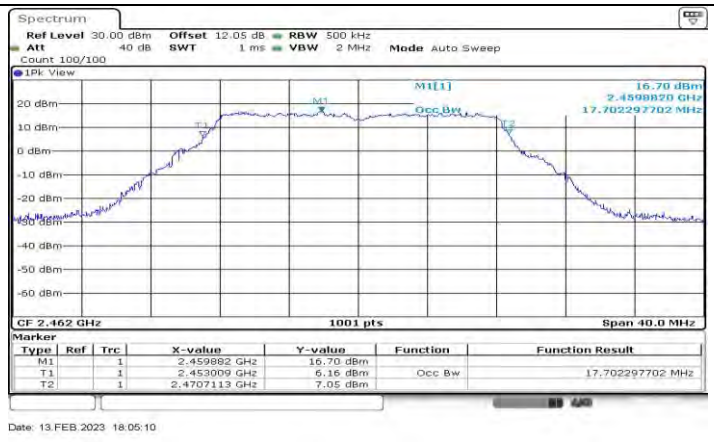


11G-CDD_Ant3_2457

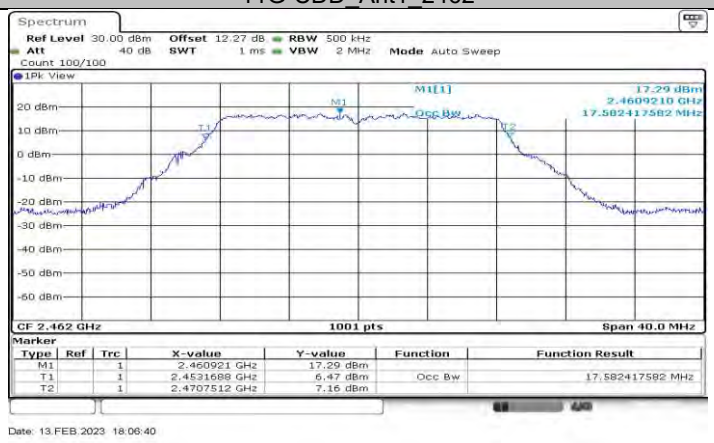


11G-CDD_Ant4_2457

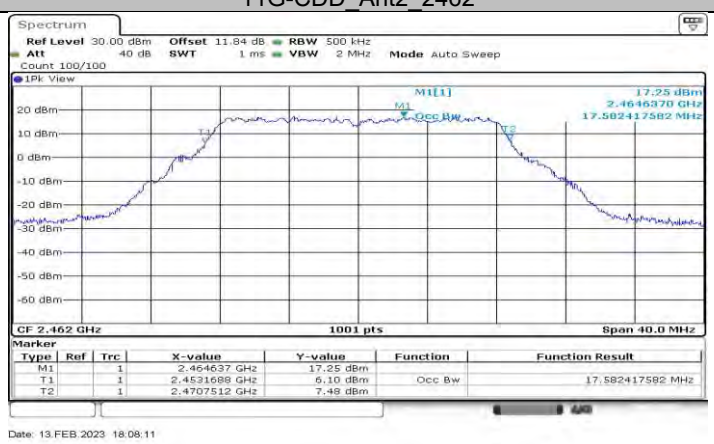
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant1_2462

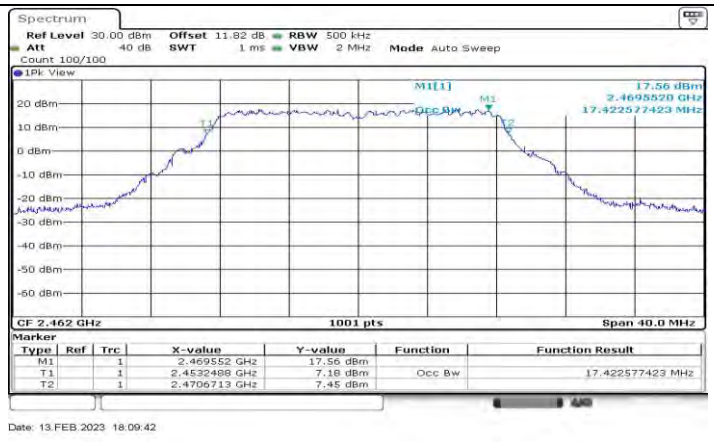


11G-CDD_Ant2_2462

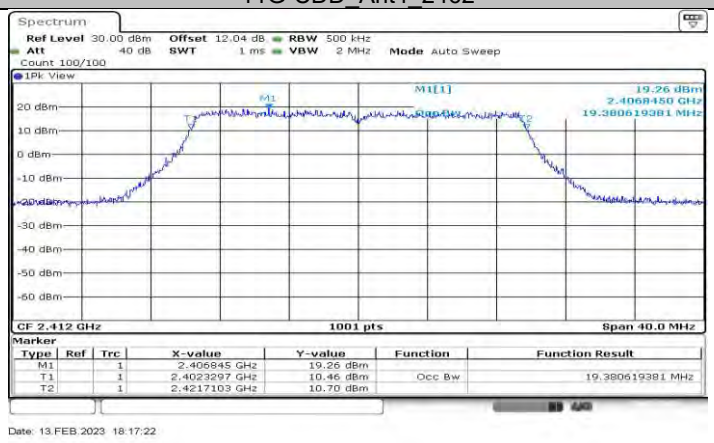


11G-CDD_Ant3_2462

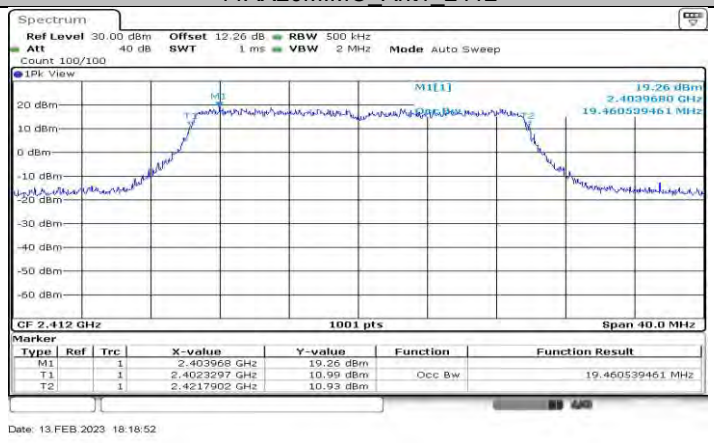
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11G-CDD_Ant4_2462

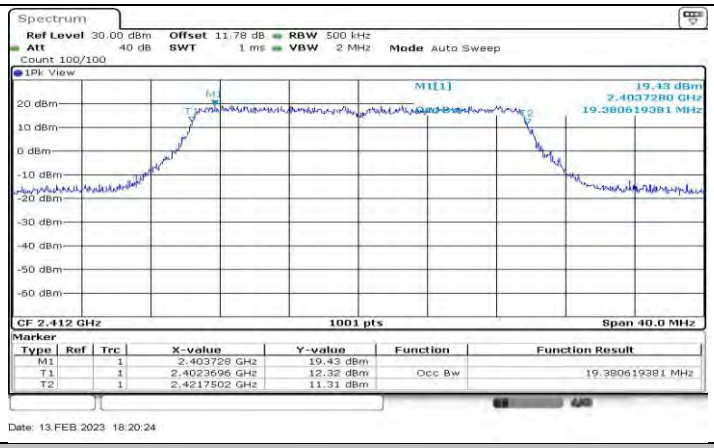


11AX20MIMO_Ant1_2412

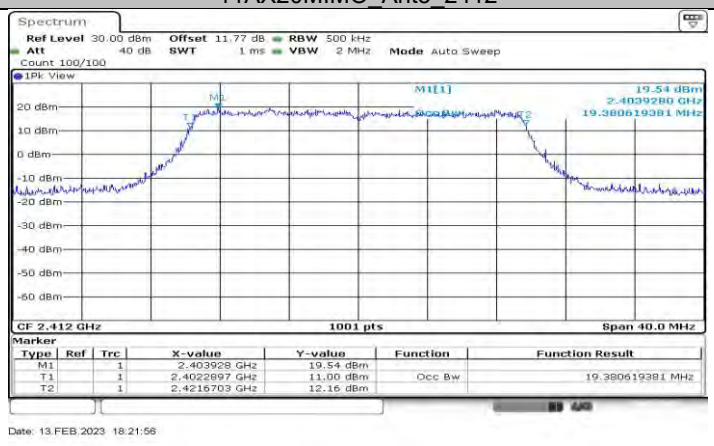


11AX20MIMO_Ant2_2412

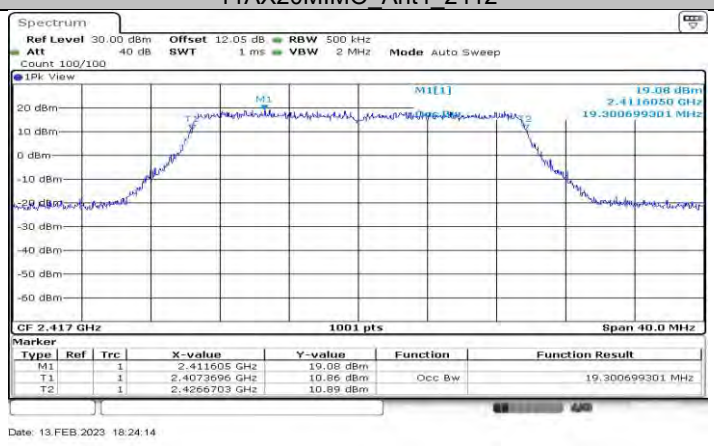
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant3_2412

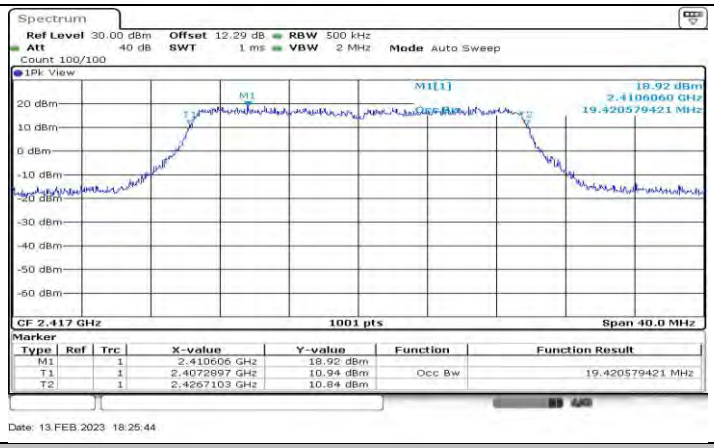


11AX20MIMO_Ant4_2412

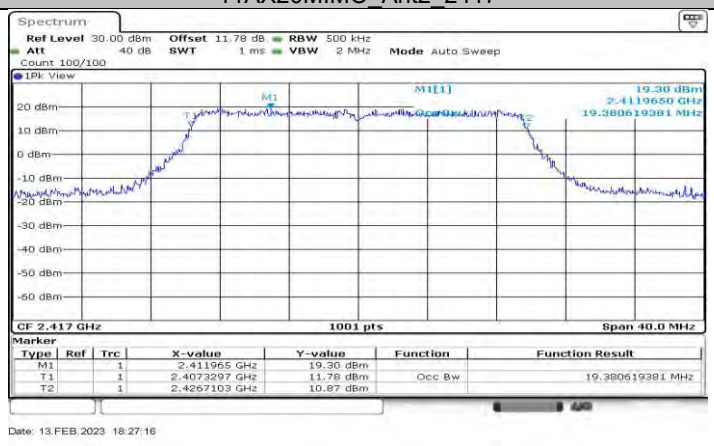


11AX20MIMO_Ant1_2417

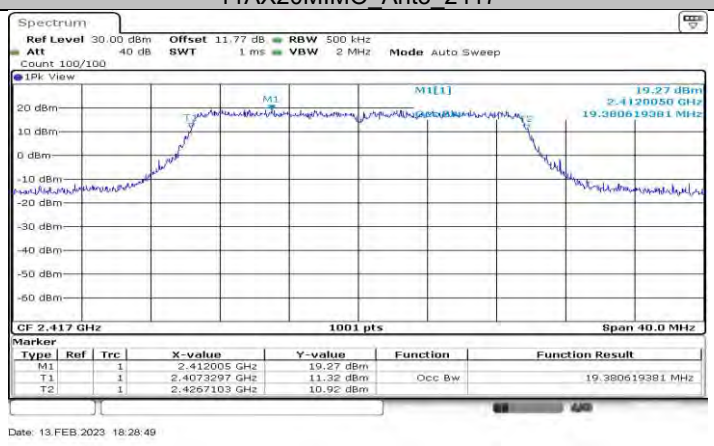
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2417

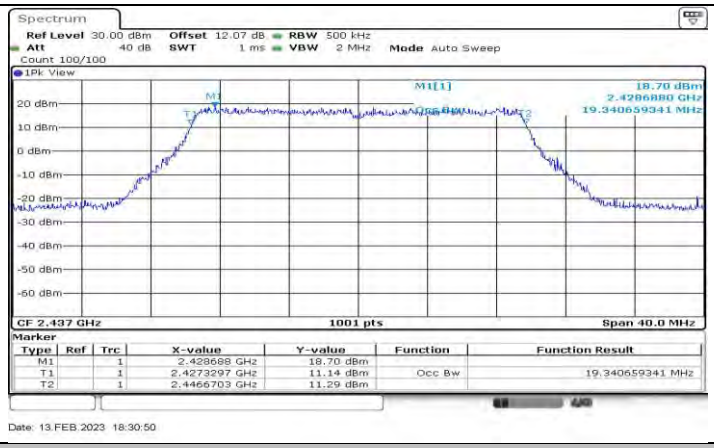


11AX20MIMO_Ant3_2417

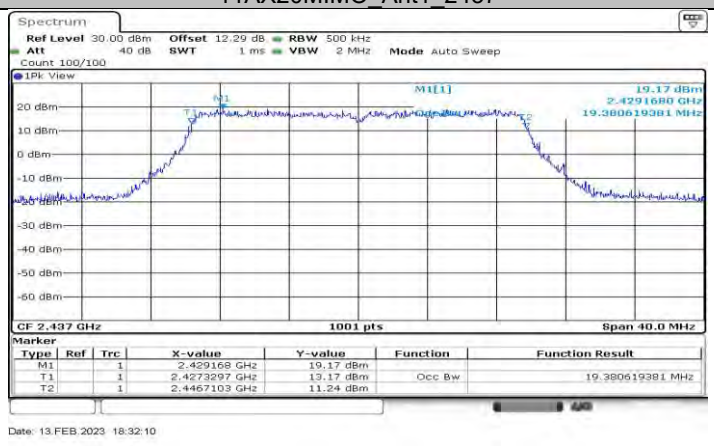


11AX20MIMO_Ant4_2417

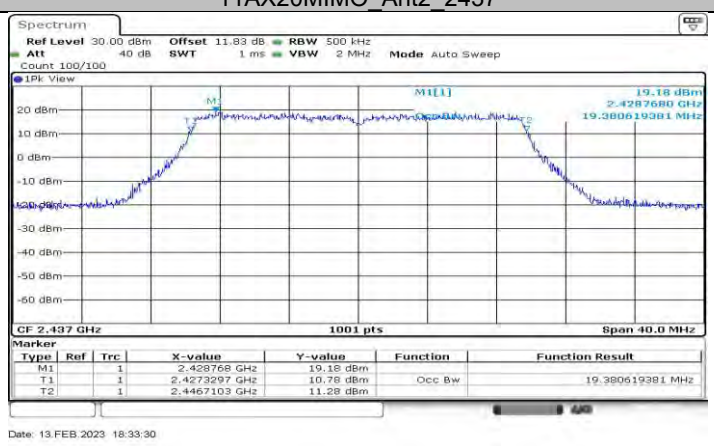
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant1_2437

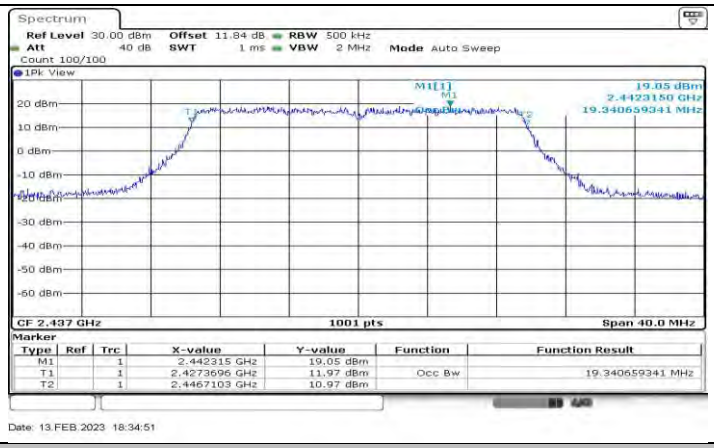


11AX20MIMO_Ant2_2437

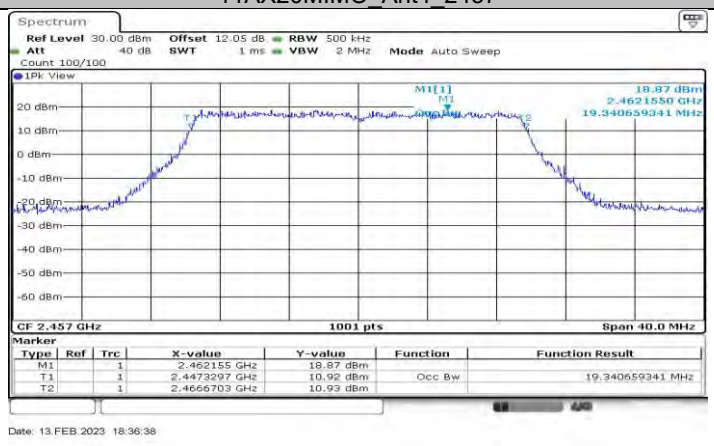


11AX20MIMO_Ant3_2437

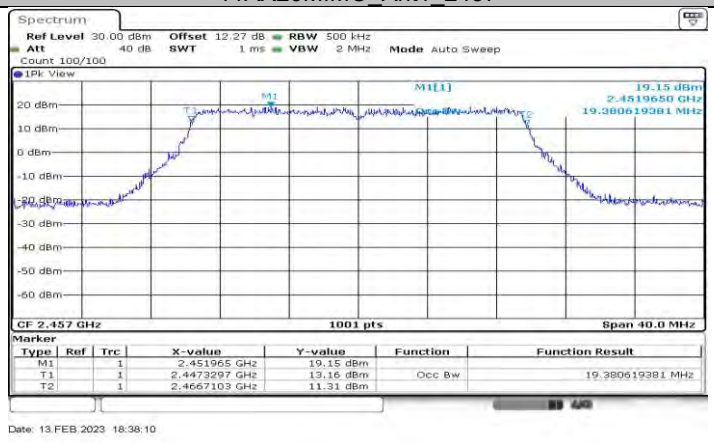
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant4_2437

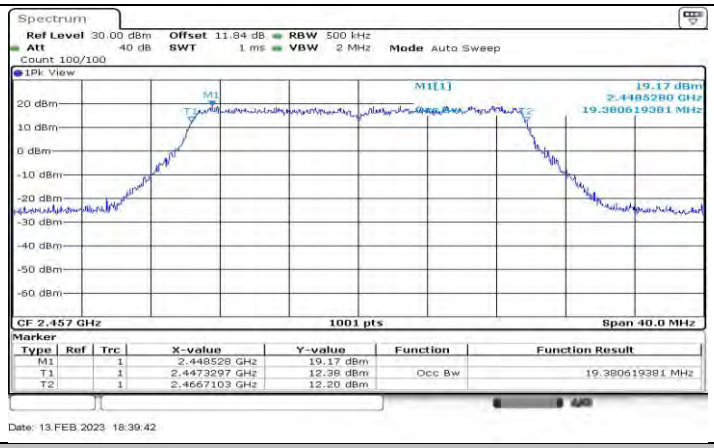


11AX20MIMO_Ant1_2457

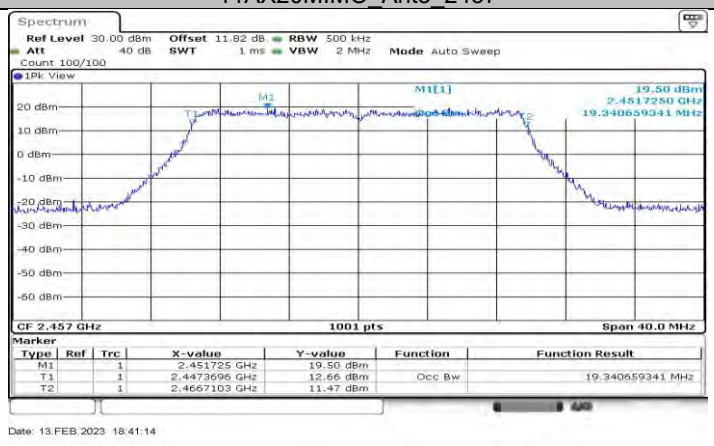


11AX20MIMO_Ant2_2457

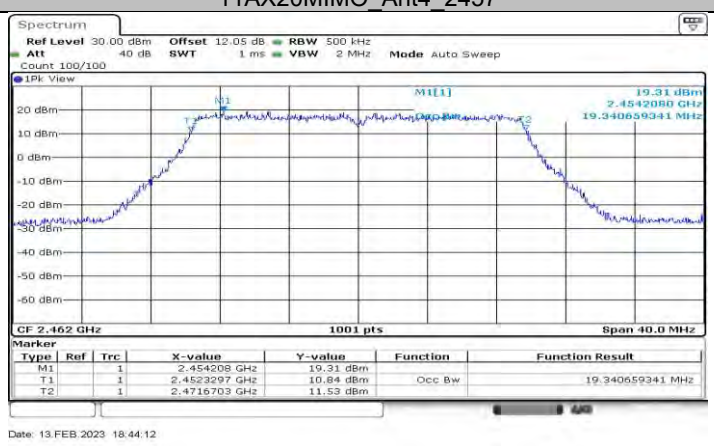
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant3_2457

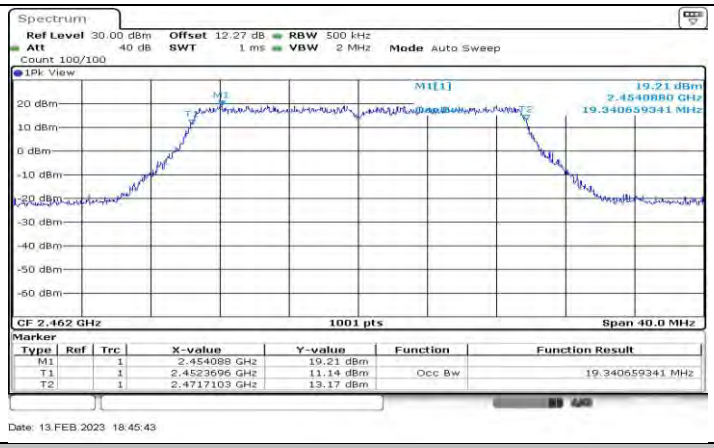


11AX20MIMO_Ant4_2457

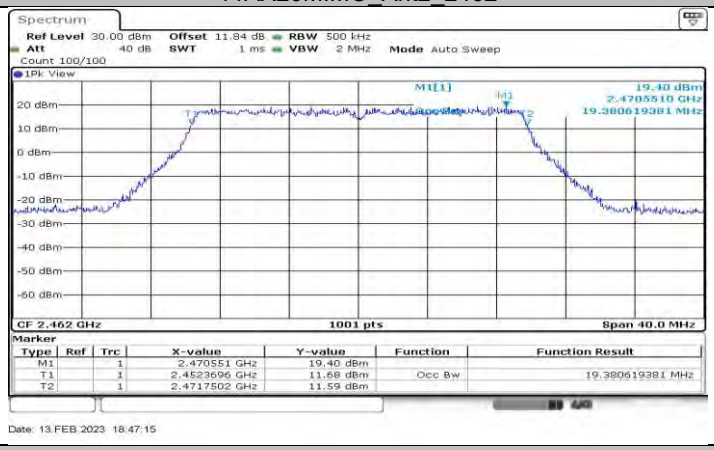


11AX20MIMO_Ant1_2462

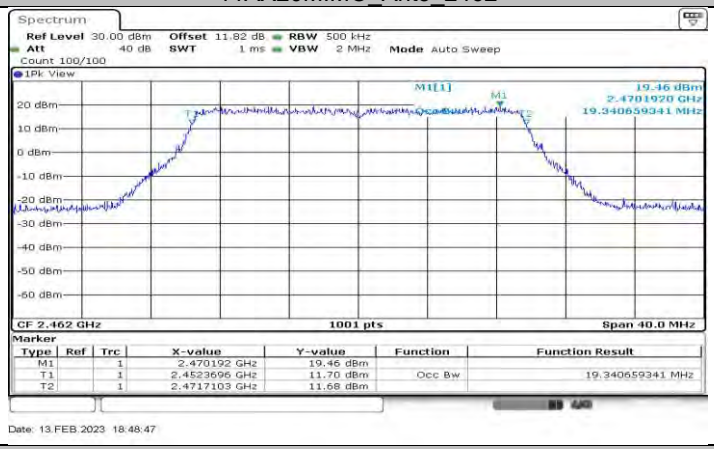
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX20MIMO_Ant2_2462

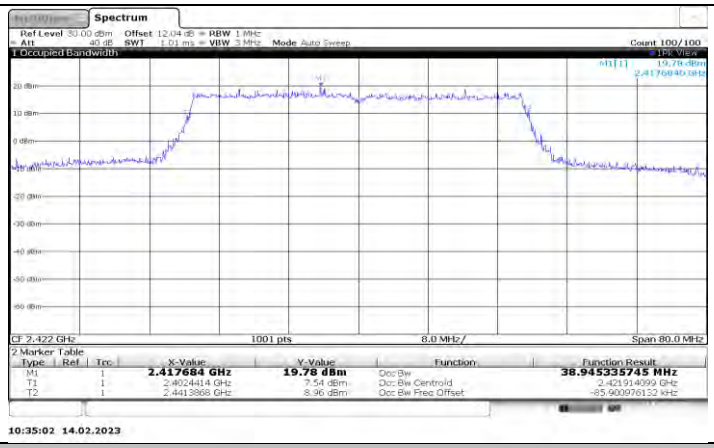


11AX20MIMO_Ant3_2462

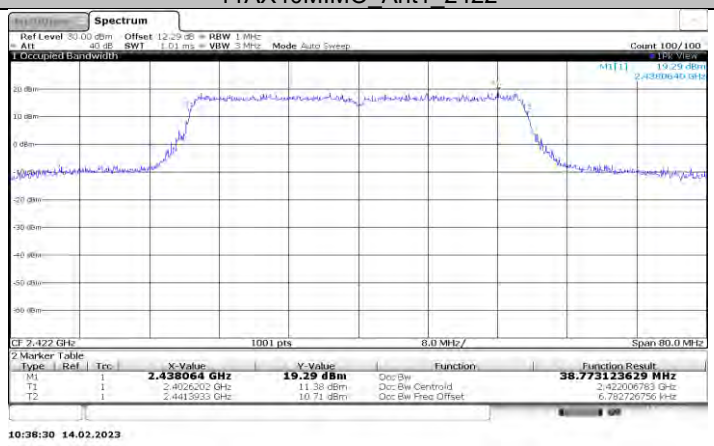


11AX20MIMO_Ant4_2462

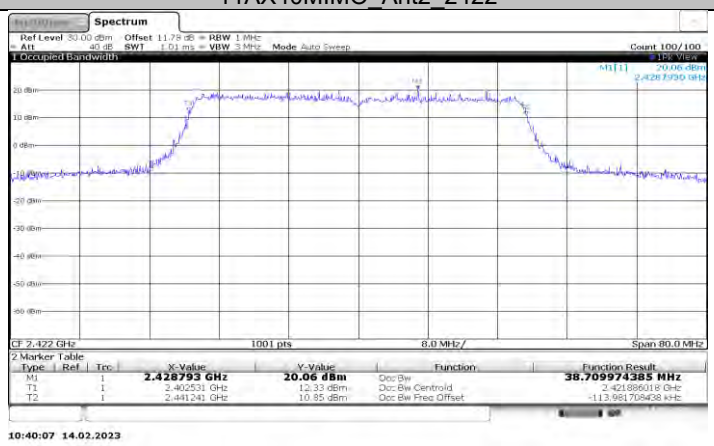
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant1_2422

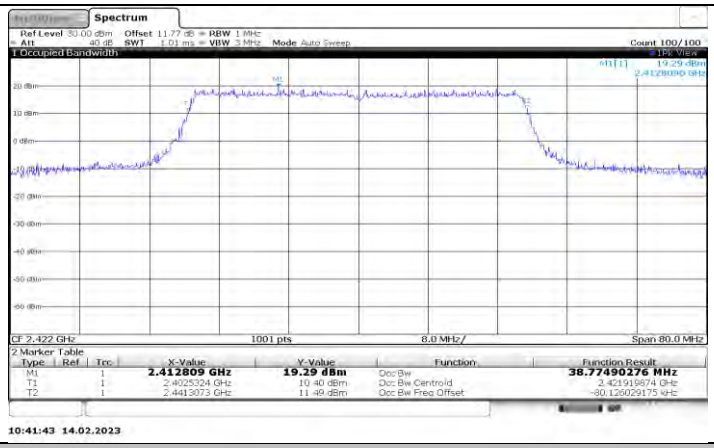


11AX40MIMO_Ant2_2422

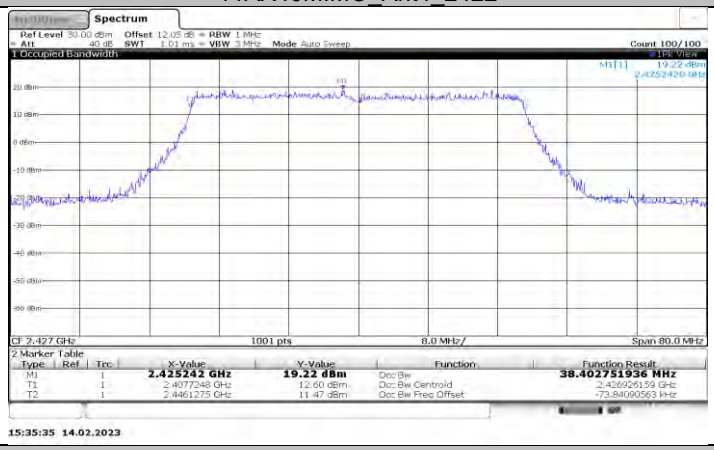


11AX40MIMO_Ant3_2422

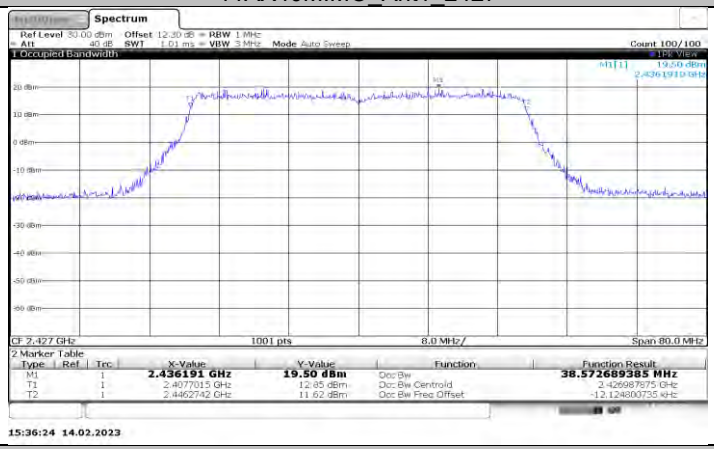
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2422

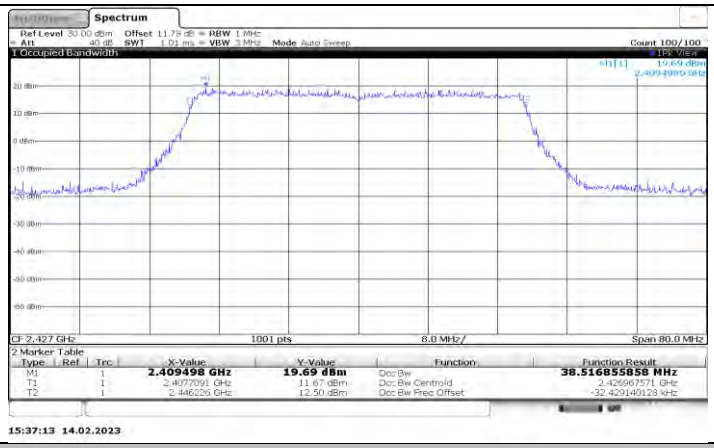


11AX40MIMO_Ant1_2427

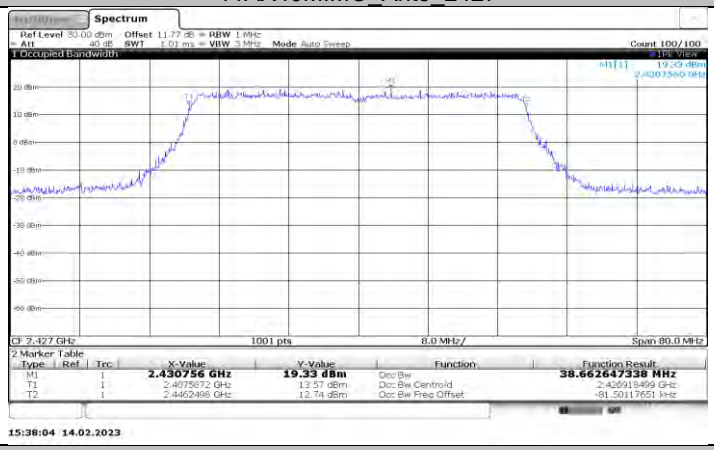


11AX40MIMO_Ant2_2427

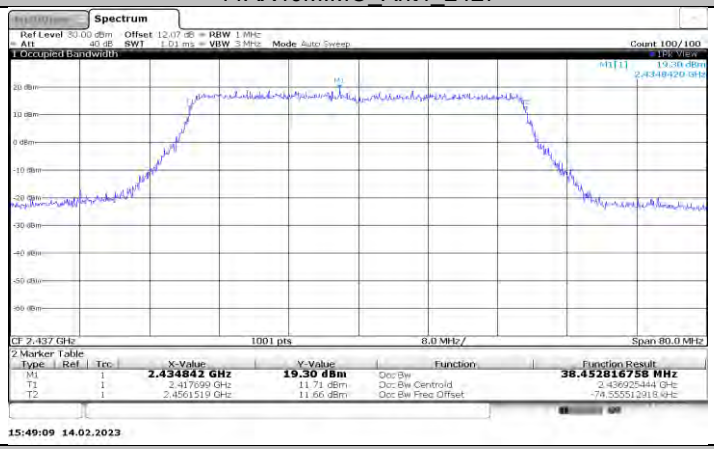
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant3_2427

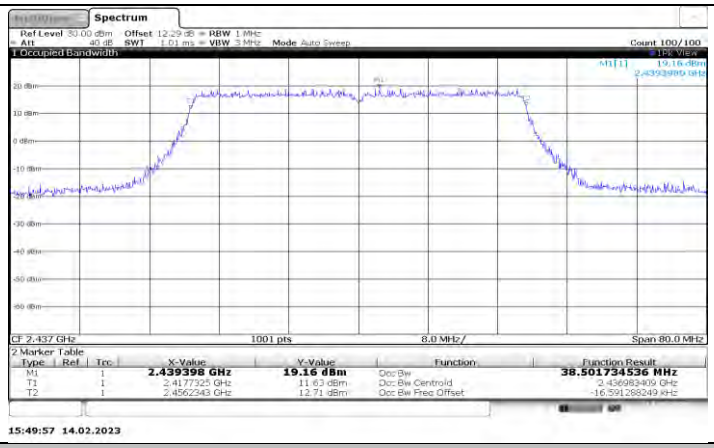


11AX40MIMO_Ant4_2427

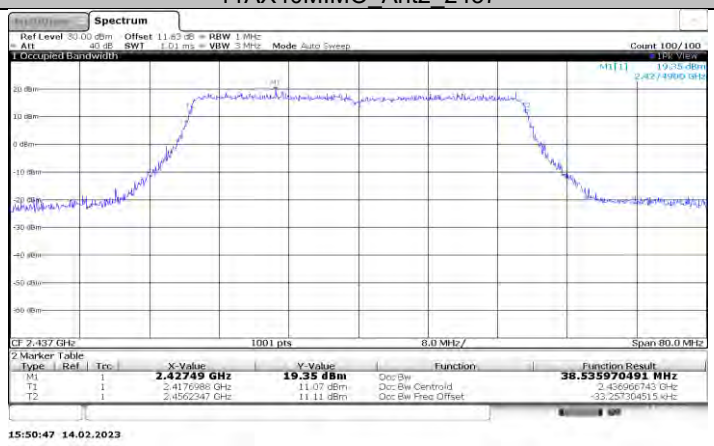


11AX40MIMO_Ant1_2437

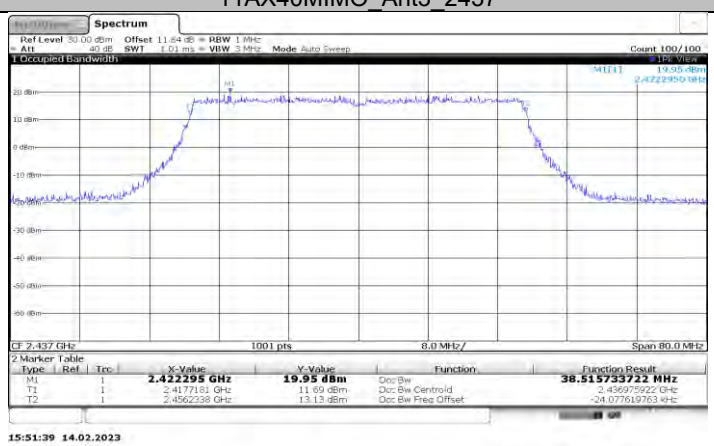
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant2_2437

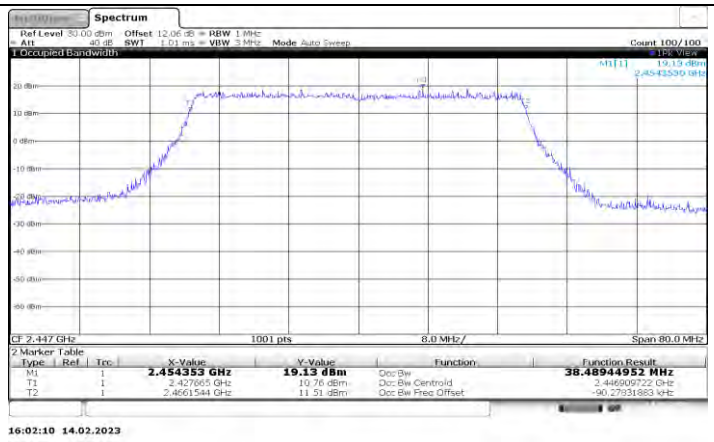


11AX40MIMO_Ant3_2437

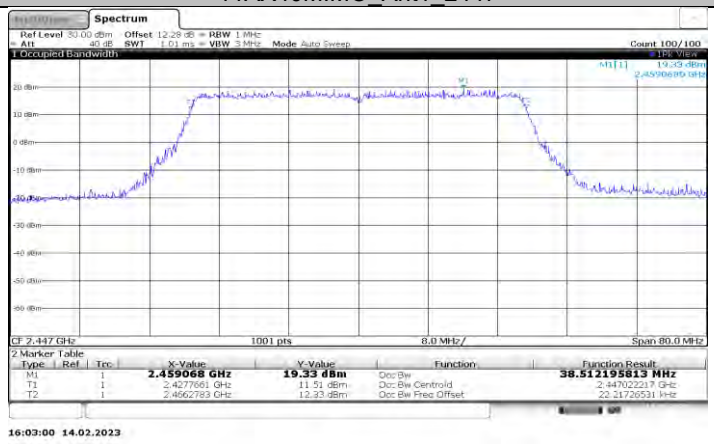


11AX40MIMO_Ant4_2437

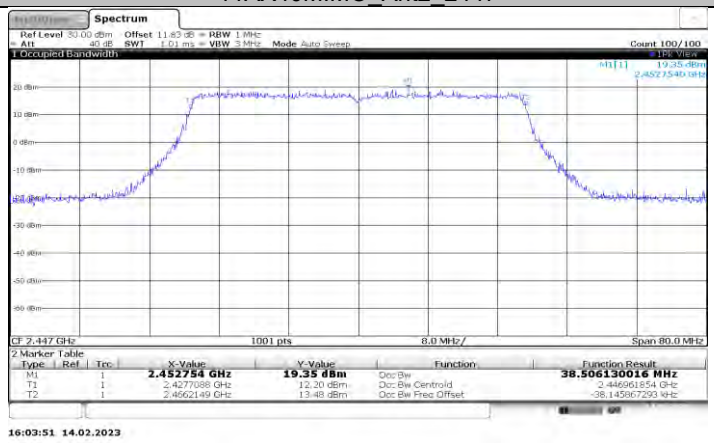
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant1_2447

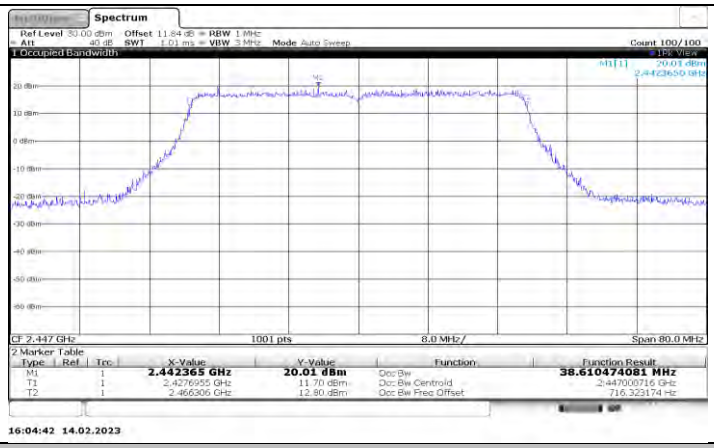


11AX40MIMO_Ant2_2447

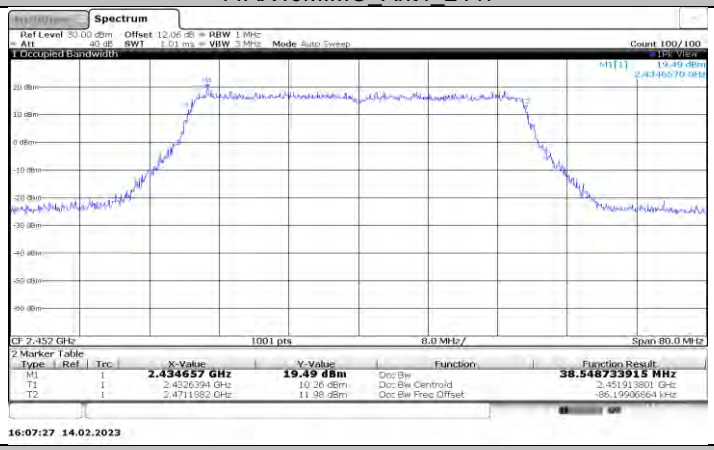


11AX40MIMO_Ant3_2447

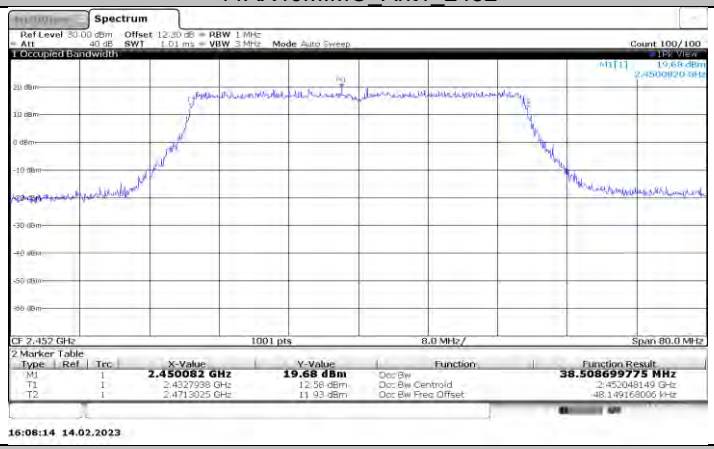
This report shall not be reproduced except in full, without the written approval of UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.



11AX40MIMO_Ant4_2447



11AX40MIMO_Ant1_2452



11AX40MIMO_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.