Appendix RF Test Data for BLE

Company	:	**SnowAmber Tech Co.,Ltd**
EUT	:	**AI Recorder**
Model Number	:	**R1**
Report No.	:	**CTA25091501401**
Reviewed By	:	**Eric Wang**

複製禁止

Appendix A: Frequency Error

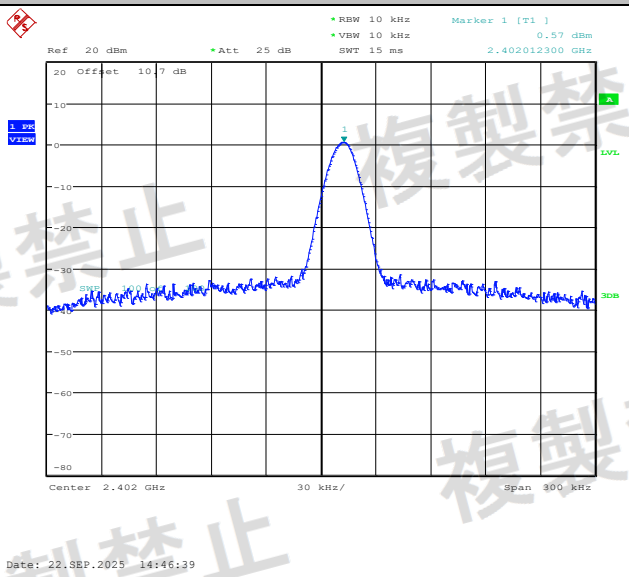
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result[ppm]	Limit[ppm]	Verdict
NTNV	BLE_1M	Ant1	2402	5.12073	±50	PASS
			2440	4.91803	±50	PASS
			2480	4.83871	±50	PASS

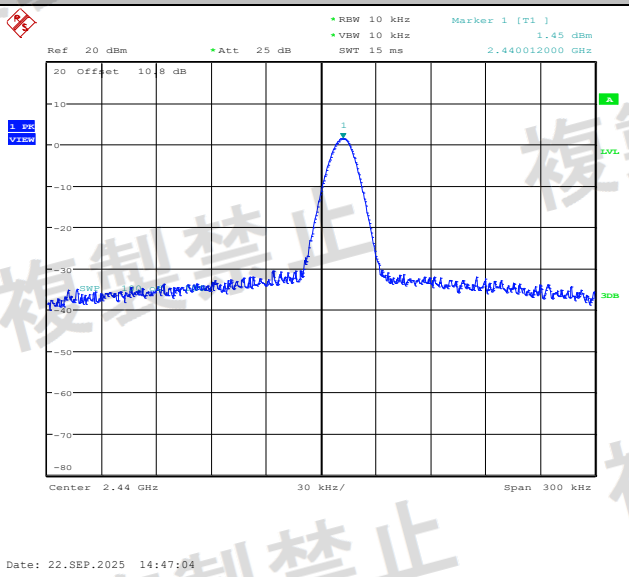
複製禁止

Test Graphs

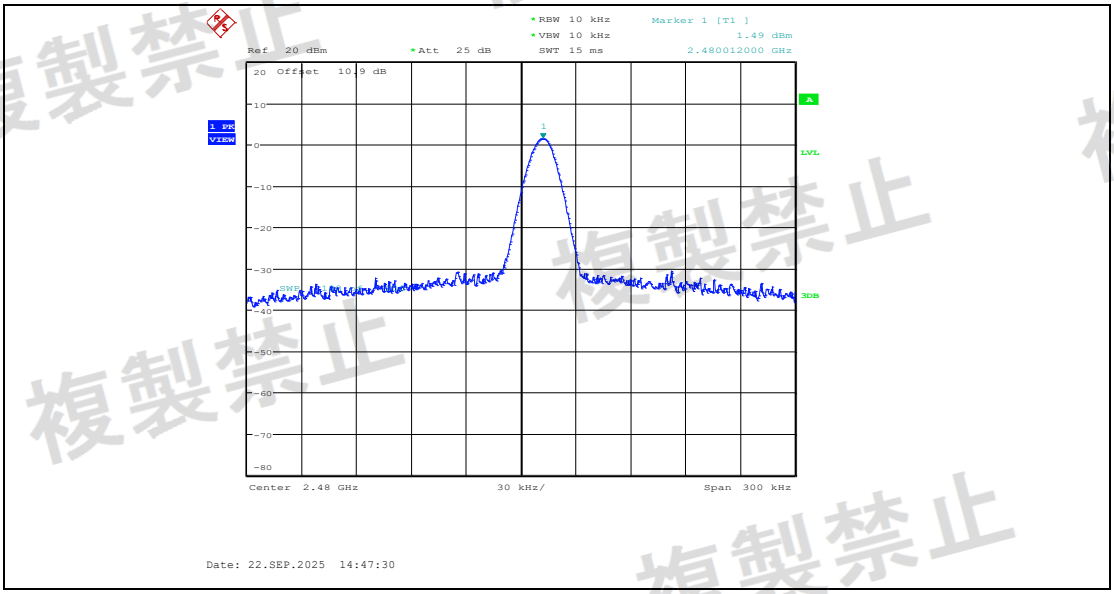
NTNV_BLE_1M_Ant1_2402



NTNV_BLE_1M_Ant1_2440



NTNV_BLE_1M_Ant1_2480


RBW 10 kHz
VBW 10 kHz
SWT 15 ms
Marker 1 [T1]
1.49 dBm
2.480012000 GHz
Ref 20 dBm
Att 25 dB
Offset 10.9 dB
1 PK VIEW
LVL
3DB
Center 2.48 GHz
30 kHz/
Span 300 kHz
Date: 22.SEP.2025 14:47:30

Appendix B: Occupied Bandwidth

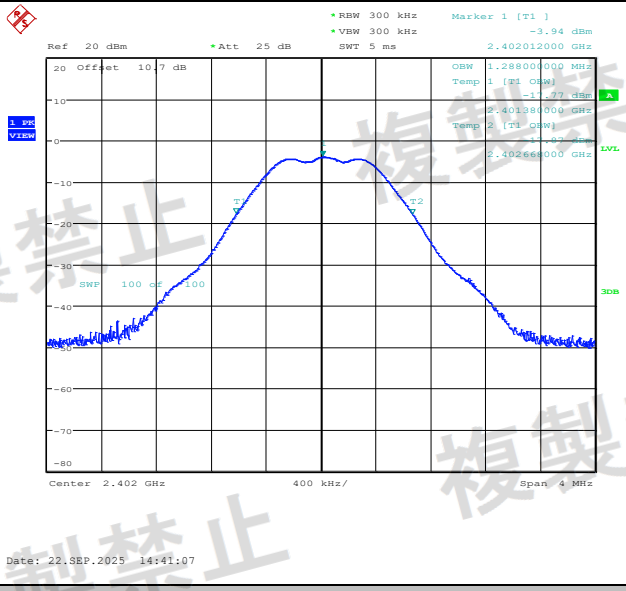
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	1.288	≤26	PASS
			2440	1.288	≤26	PASS
			2480	1.292	≤26	PASS

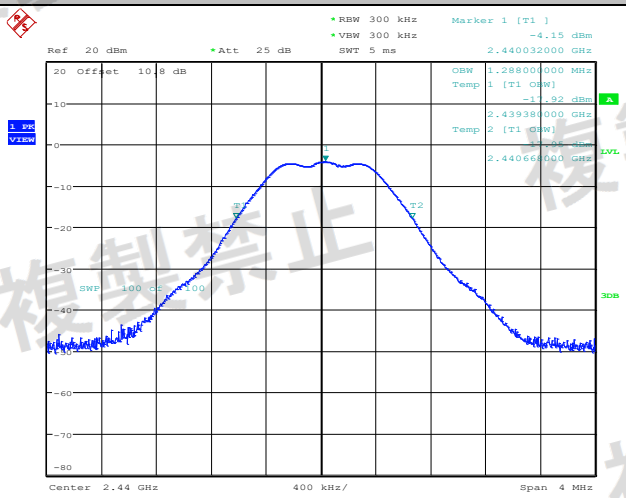
複製禁止

Test Graphs

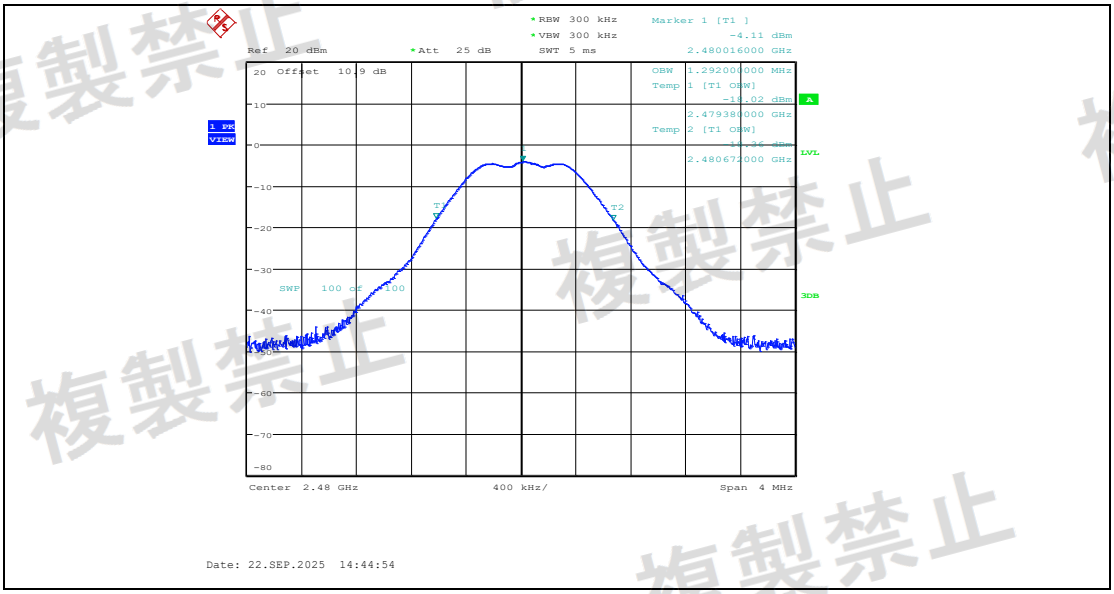
NTNV_BLE_1M_Ant1_2402



NTNV_BLE_1M_Ant1_2440



NTNV_BLE_1M_Ant1_2480


RBW 300 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-4.11 dBm
2.480016000 GHz
Ref 20 dBm
Att 25 dB
Offset 10.9 dB
OBW 1.292000000 MHz
Temp 1 [T1 OBW]
-18.02 dBm
2.479380000 GHz
Temp 2 [T1 OBW]
-18.36 dBm
2.480672000 GHz
1 PK VIEW
A
LVL
3DB
SWP 100 of 100
Center 2.48 GHz
400 kHz/
Span 4 MHz
Date: 22.SEP.2025 14:44:54

Appendix C: Spread Bandwidth

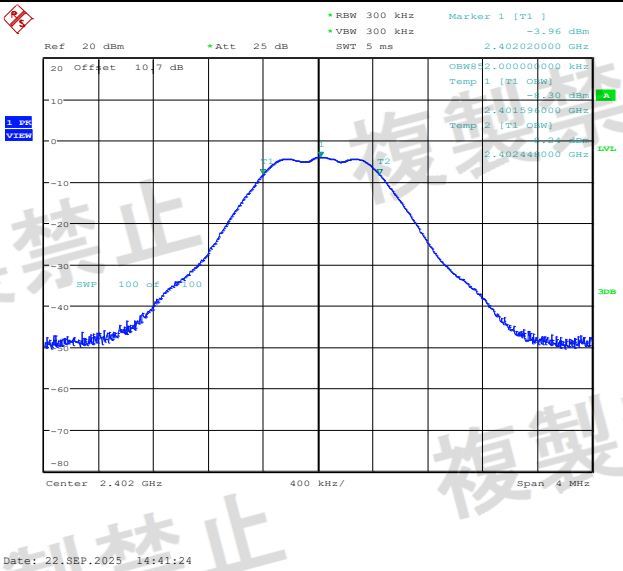
Test Result

TestCondition	TestMode	Antenna	Freq(MHz)	Result [MHz]	Limit [MHz]	Verdict
NTNV	BLE_1M	Ant1	2402	0.852	≥0.5	PASS
			2440	0.852	≥0.5	PASS
			2480	0.852	≥0.5	PASS

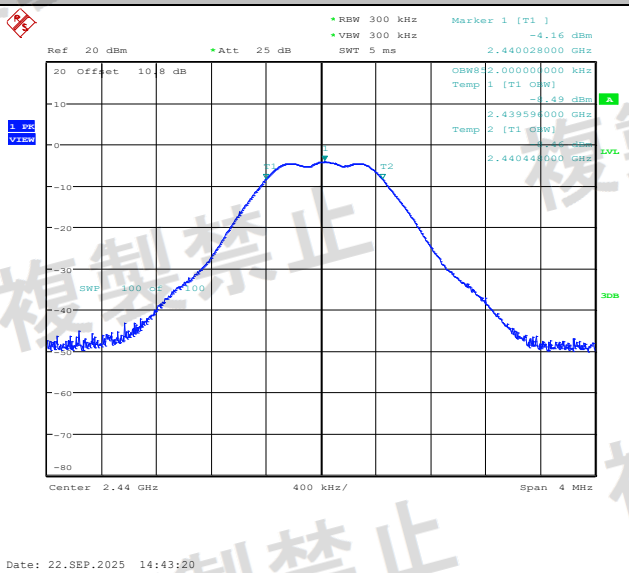
複製禁止

Test Graphs

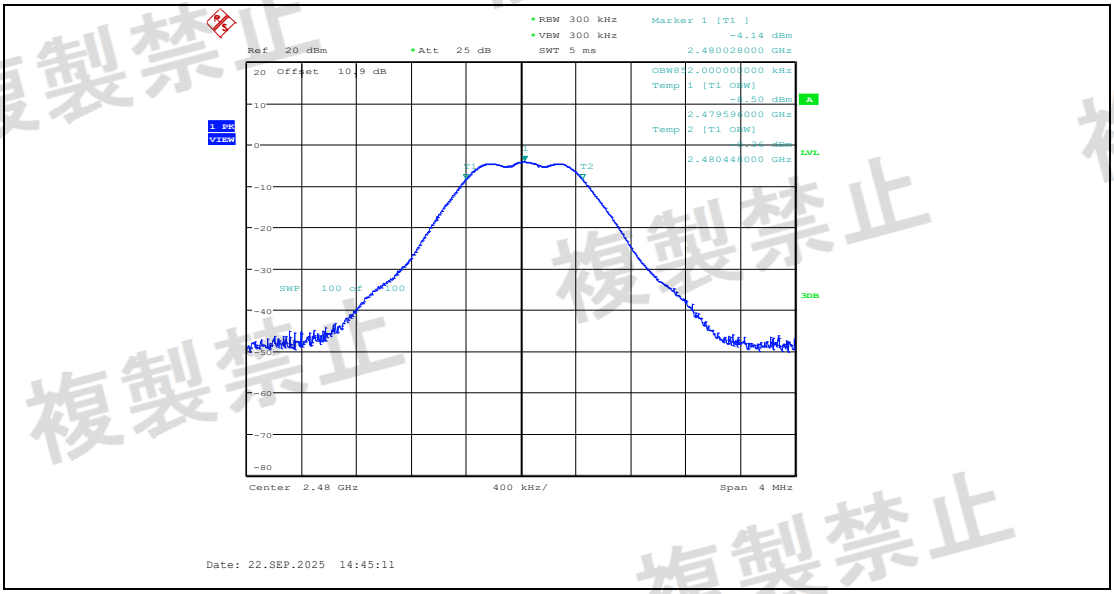
NTNV_BLE_1M_Ant1_2402



NTNV_BLE_1M_Ant1_2440



NTNV_BLE_1M_Ant1_2480


RBW 300 kHz
VBW 300 kHz
SWT 5 ms
Marker 1 [T1]
-4.14 dBm
2.480028000 GHz
Ref 20 dBm
Att 25 dB
20 Offset 10.9 dB
OBW85 2.000000000 kHz
Temp 1 [T1 OBW]
-8.50 dBm
2.479596000 GHz
Temp 2 [T1 OBW]
-8.36 dBm
2.480448000 GHz
1 PK VIEW
SWP 100 of 100
Center 2.48 GHz
400 kHz/
Span 4 MHz
Date: 22.SEP.2025 14:45:11

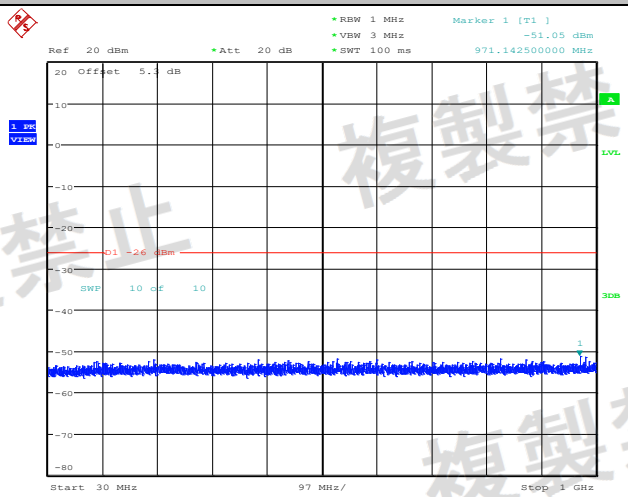
Appendix D: Spurious Emission of TX

Test Result

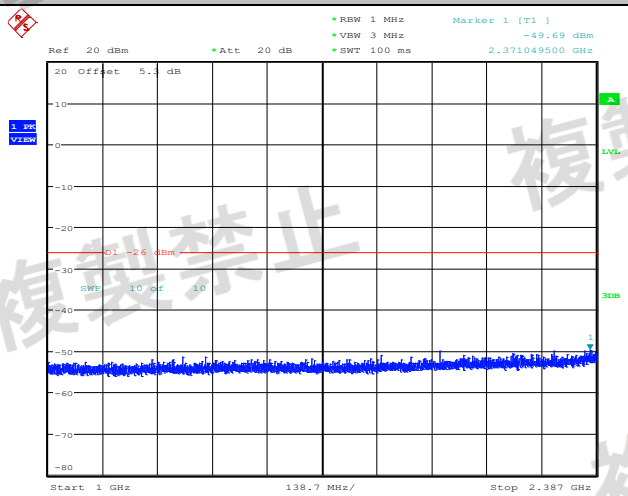
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [μW]	Limit [μW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	971.14	-51.05	≤-26	0.00785	≤2.5	PASS
				1000~2387	2371.05	-49.69	≤-26	0.01074	≤2.5	PASS
				2387~2400	2400.00	-25.76	≤-16	2.65461	≤25	PASS
				2483.5~2496.5	2493.64	-39.10	≤-16	0.12303	≤25	PASS
				2496.5~13000	4803.59	-46.40	≤-26	0.02291	≤2.5	PASS
			2440	30~1000	940.59	-51.24	≤-26	0.00752	≤2.5	PASS
				1000~2387	2350.94	-50.39	≤-26	0.00914	≤2.5	PASS
				2387~2400	2397.11	-39.40	≤-16	0.11482	≤25	PASS
				2483.5~2496.5	2491.57	-38.47	≤-16	0.14223	≤25	PASS
				2496.5~13000	4879.74	-46.21	≤-26	0.02393	≤2.5	PASS
			2480	30~1000	210.18	-51.47	≤-26	0.00713	≤2.5	PASS
				1000~2387	2166.12	-50.10	≤-26	0.00977	≤2.5	PASS
				2387~2400	2391.84	-39.31	≤-16	0.11722	≤25	PASS
				2483.5~2496.5	2483.66	-39.11	≤-16	0.12274	≤25	PASS
				2496.5~13000	4959.57	-45.99	≤-26	0.02518	≤2.5	PASS

Test Graphs

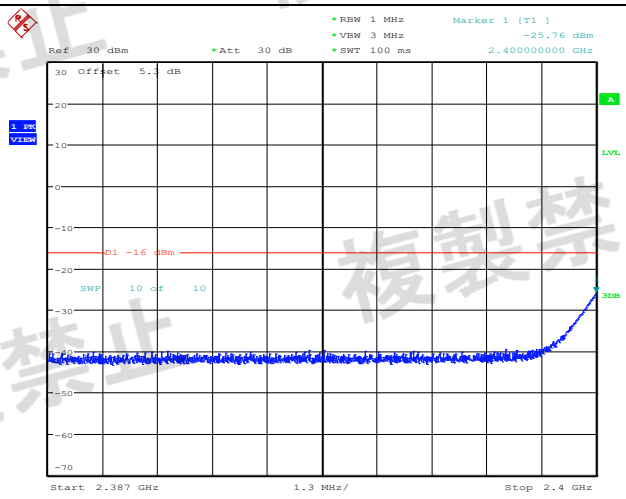
NTNV_BLE_1M_Ant1_2402_30~1000



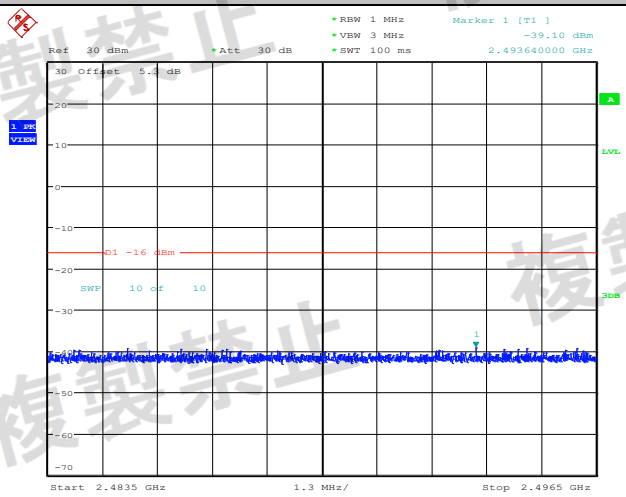
NTNV_BLE_1M_Ant1_2402_1000~2387



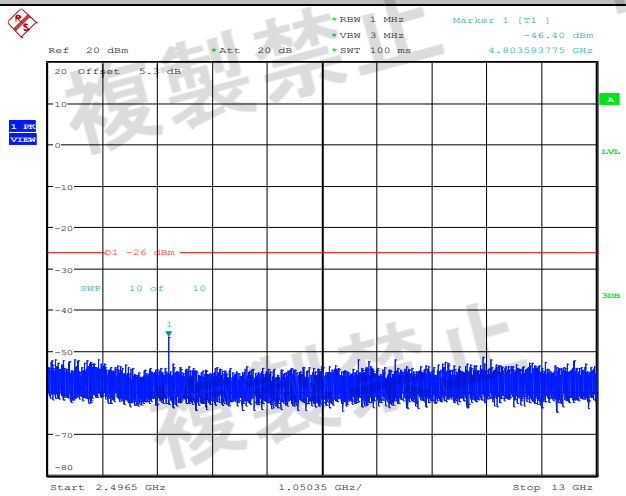
NTNV_BLE_1M_Ant1_2402_2387~2400



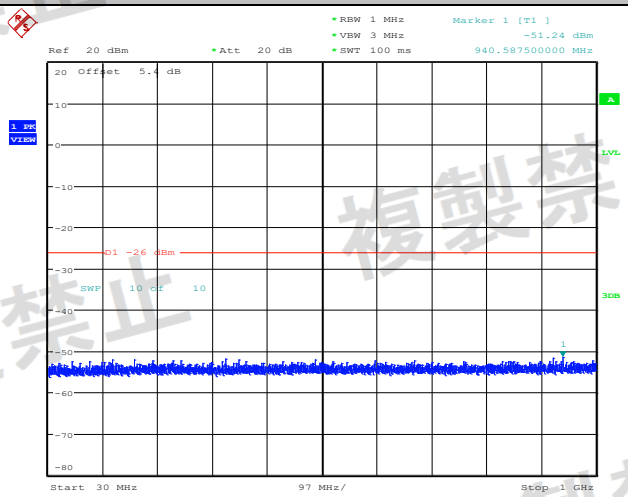
NTNV_BLE_1M_Ant1_2402_2483.5~2496.5



NTNV_BLE_1M_Ant1_2402_2496.5~13000

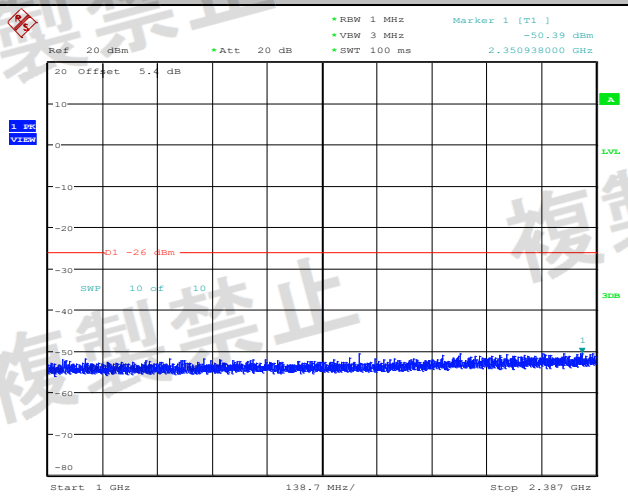


NTNV_BLE_1M_Ant1_2440_30~1000



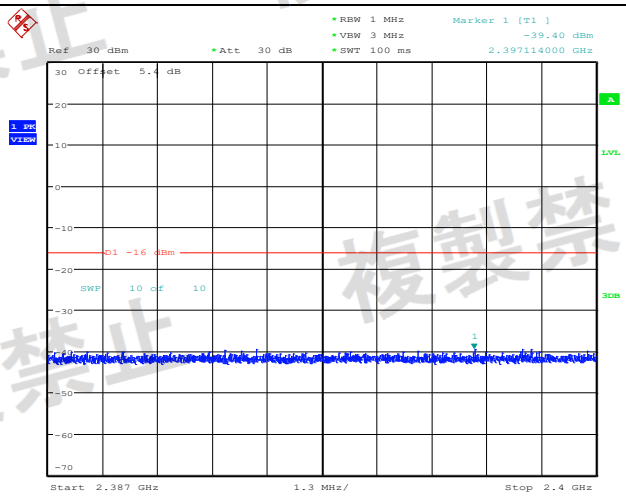
Date: 22.SEP.2025 14:43:31

NTNV_BLE_1M_Ant1_2440_1000~2387



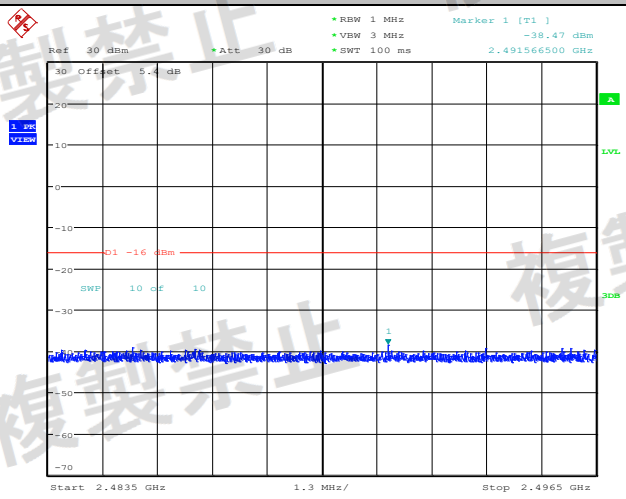
Date: 22.SEP.2025 14:43:39

NTNV_BLE_1M_Ant1_2440_2387~2400



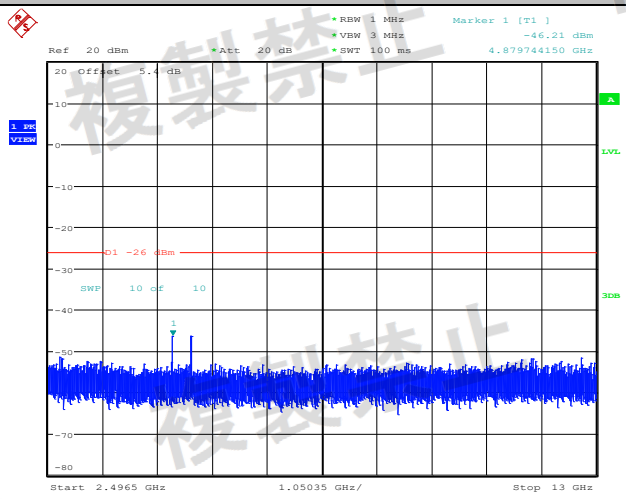
Date: 22.SEP.2025 14:43:48

NTNV_BLE_1M_Ant1_2440_2483.5~2496.5



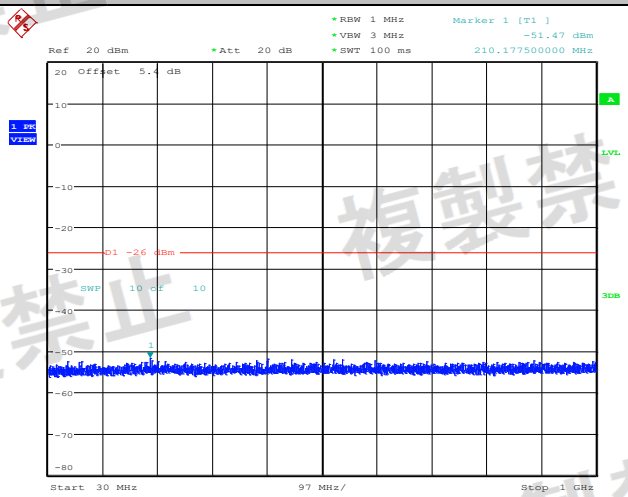
Date: 22.SEP.2025 14:43:55

NTNV_BLE_1M_Ant1_2440_2496.5~13000



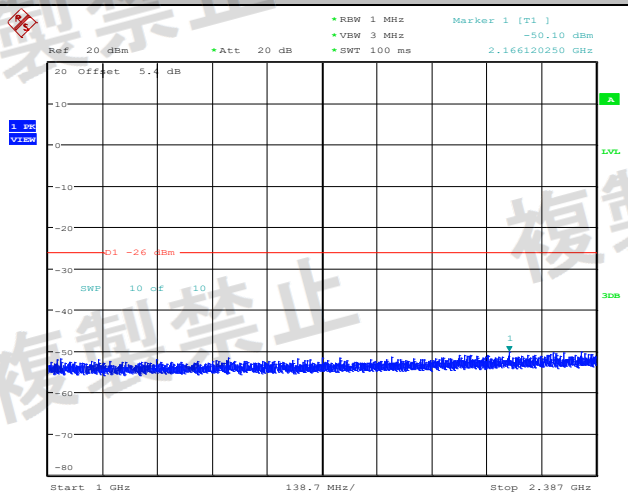
Date: 22.SEP.2025 14:44:05

NTNV_BLE_1M_Ant1_2480_30~1000



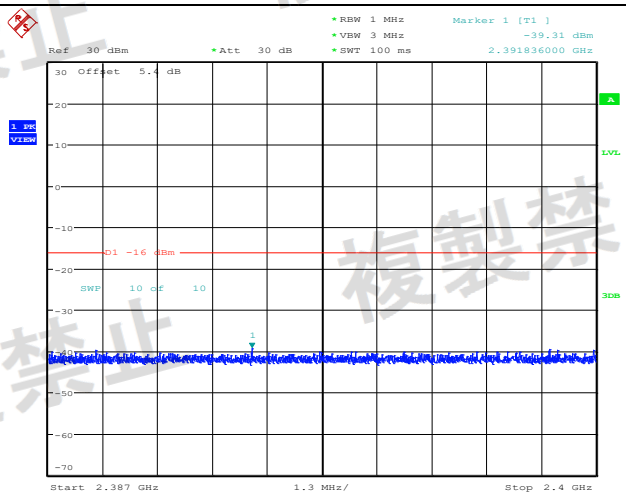
Date: 22.SEP.2025 14:45:22

NTNV_BLE_1M_Ant1_2480_1000~2387



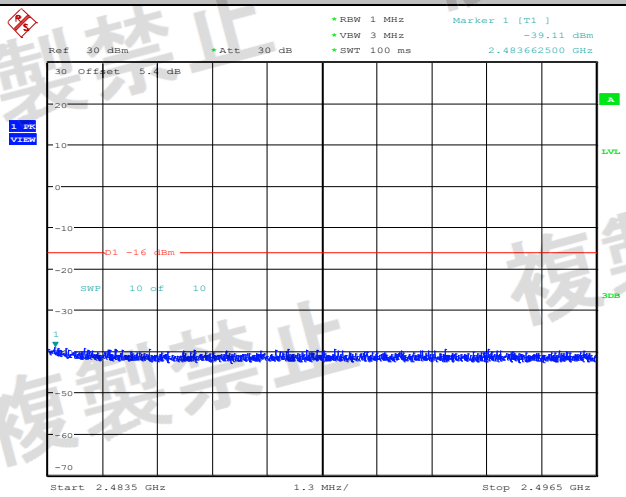
Date: 22.SEP.2025 14:45:31

NTNV_BLE_1M_Ant1_2480_2387~2400



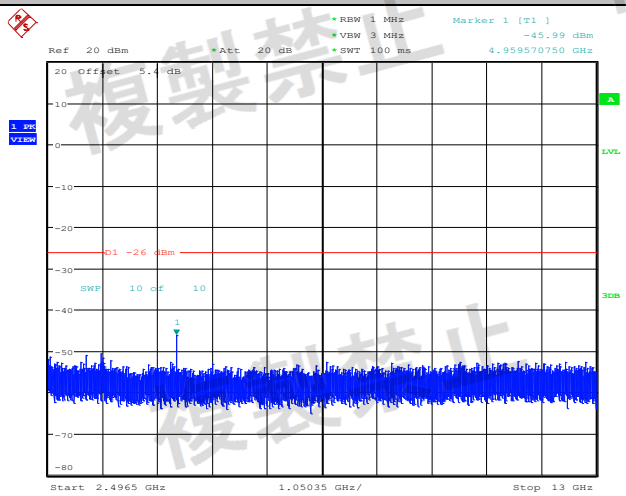
Date: 22.SEP.2025 14:45:39

NTNV_BLE_1M_Ant1_2480_2483.5~2496.5



Date: 22.SEP.2025 14:45:47

NTNV_BLE_1M_Ant1_2480_2496.5~13000



Date: 22.SEP.2025 14:45:57

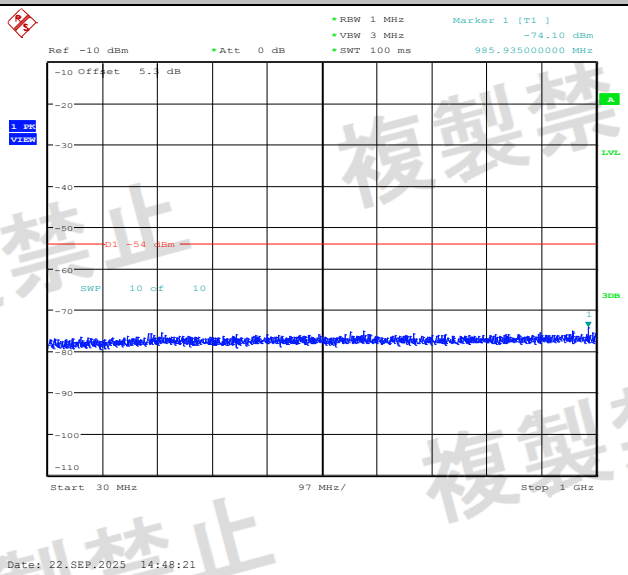
Appendix E: Spurious Emission of RX

Test Result

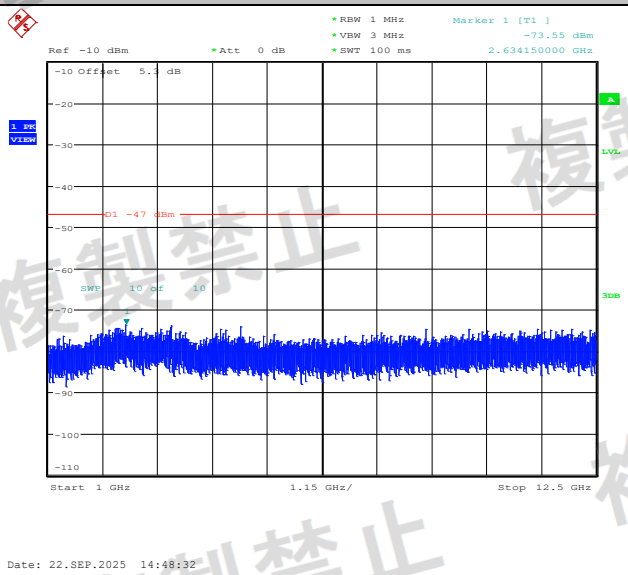
TestCondition	TestMode	Antenna	Freq(MHz)	Freq.Range [MHz]	Freq. [MHz]	Result [dBm]	Limit [dBm]	Result [nW]	Limit [nW]	Verdict
NTNV	BLE_1M	Ant1	2402	30~1000	985.94	-74.10	≤-54	0.03890	≤4	PASS
				1000~12500	2634.15	-73.55	≤-47	0.04416	≤20	PASS
			2440	30~1000	531.01	-74.40	≤-54	0.03631	≤4	PASS
				1000~12500	11474.20	-72.95	≤-47	0.05070	≤20	PASS
			2480	30~1000	267.17	-74.58	≤-54	0.03483	≤4	PASS
				1000~12500	11199.93	-73.07	≤-47	0.04932	≤20	PASS

Test Graphs

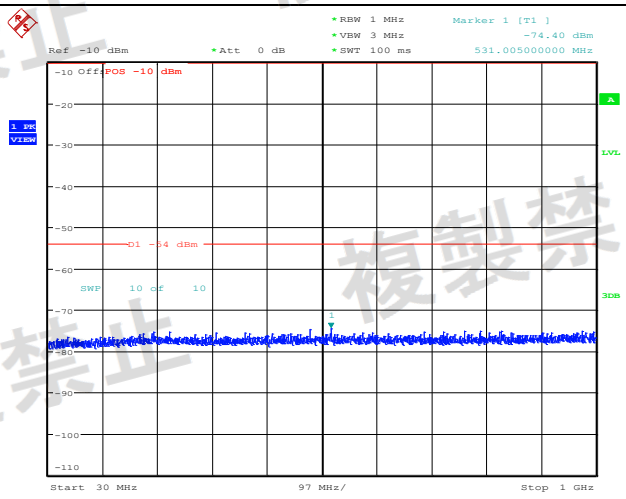
NTNV_BLE_1M_Ant1_2402_30~1000



NTNV_BLE_1M_Ant1_2402_1000~12500

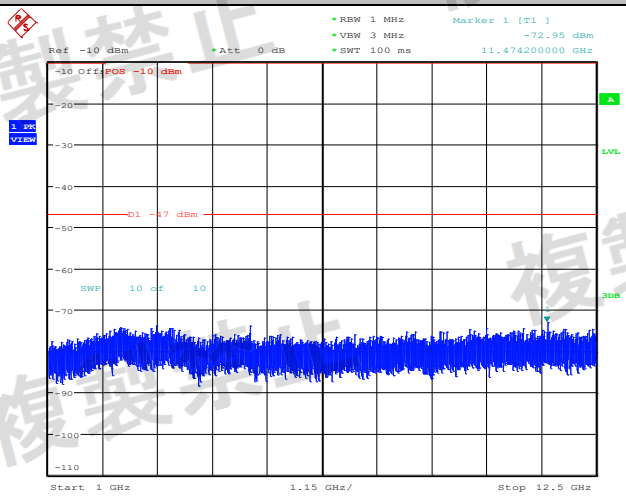


NTNV_BLE_1M_Ant1_2440_30~1000



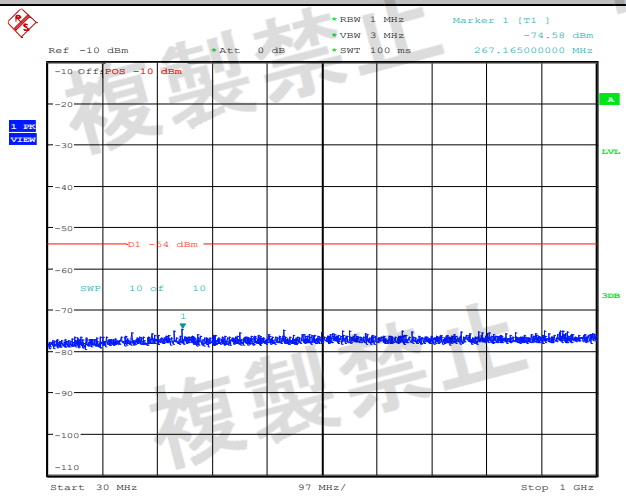
Date: 22.SEP.2025 14:48:45

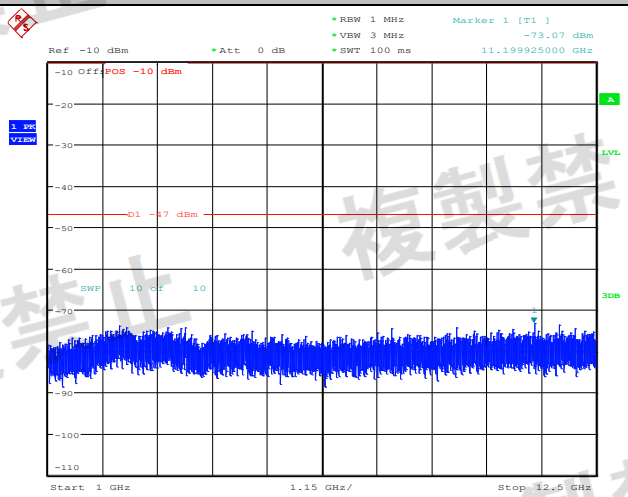
NTNV_BLE_1M_Ant1_2440_1000~12500



Date: 22.SEP.2025 14:48:55

NTNV_BLE_1M_Ant1_2480_30~1000



Date: 22.SEP.2025 14:49:10

NTNV_BLE_1M_Ant1_2480_1000~12500