

Appendix RF Test Data for BLE

Company: : **Shenzhen Yunchuang Century Technology
Co., Ltd.**

EUT : **Digital Player**

FCC ID: : **2BR75M303PRO**

Model Number : **M303 Pro**

Report No. : **HTT202508451F02**

Reviewed By : **Heber He**

1. Duty Cycle

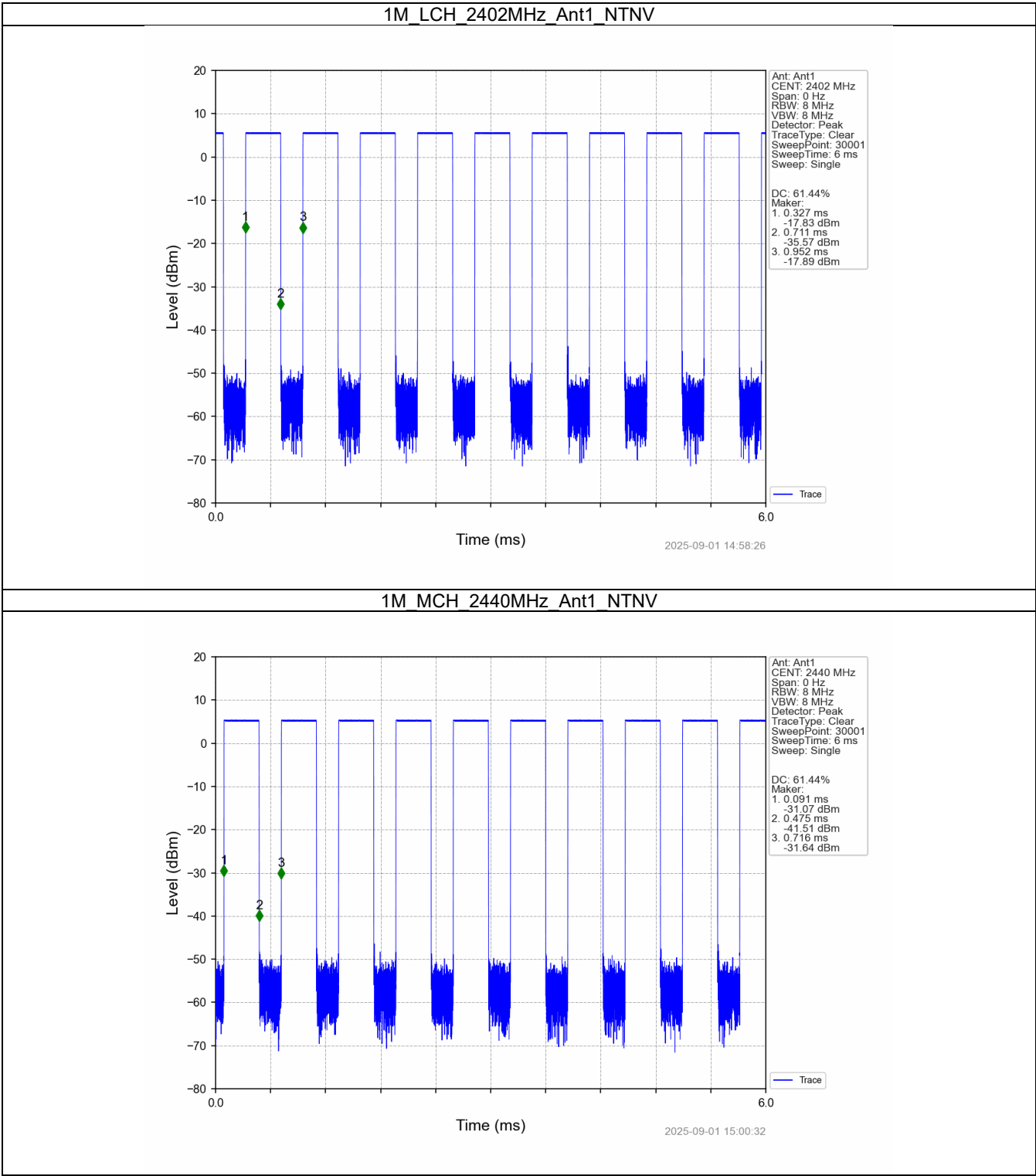
1.1 Test Result

1.1.1 Ant1

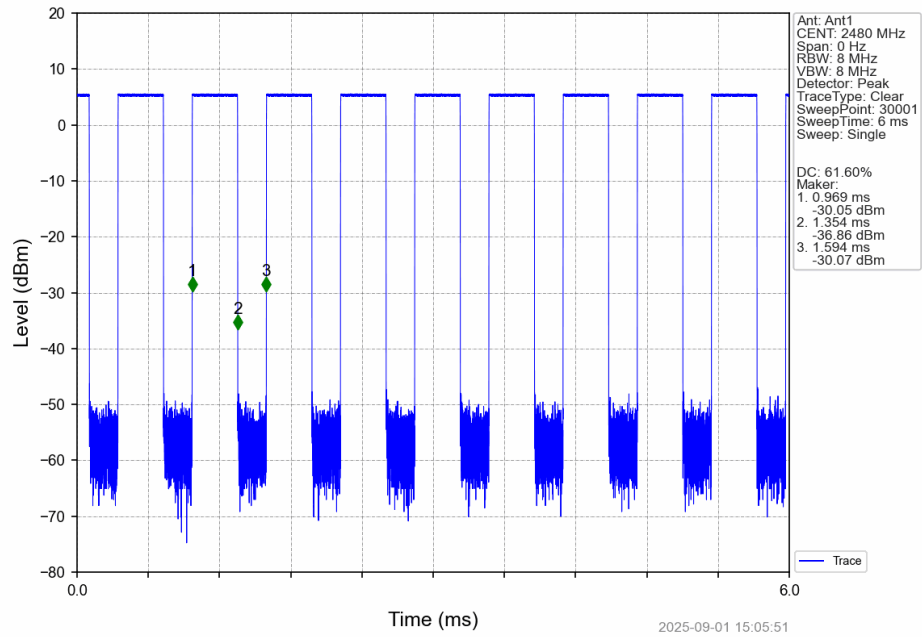
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	0.384	0.625	61.44	2.12	0.00
		2440	0.384	0.625	61.44	2.12	0.00
		2480	0.385	0.625	61.60	2.10	0.03

1.2 Test Graph

1.2.1 Ant1



1M HCH 2480MHz Ant1 NTN



2. Bandwidth

2.1 Test Result

2.1.1 OBW

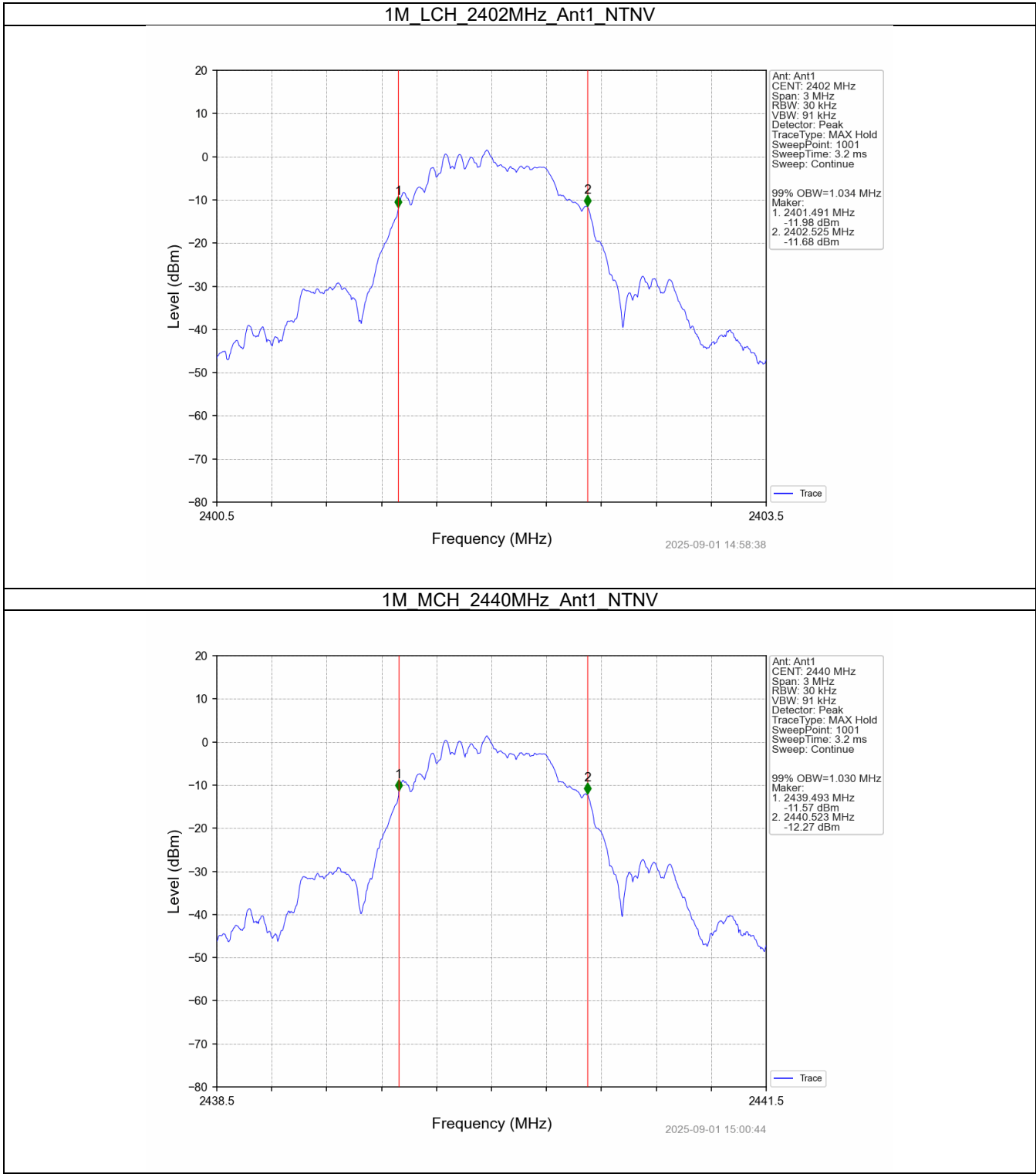
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	1.034	/	Pass
		2440	1	1.030	/	Pass
		2480	1	1.027	/	Pass

2.1.2 6dB BW

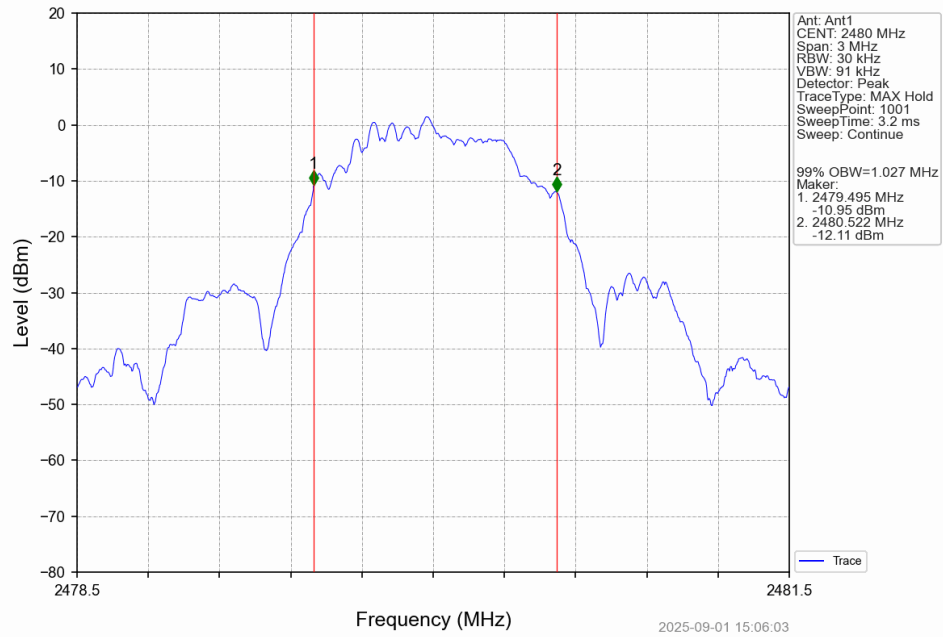
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.663	≥ 0.5	Pass
		2440	1	0.667	≥ 0.5	Pass
		2480	1	0.669	≥ 0.5	Pass

2.2 Test Graph

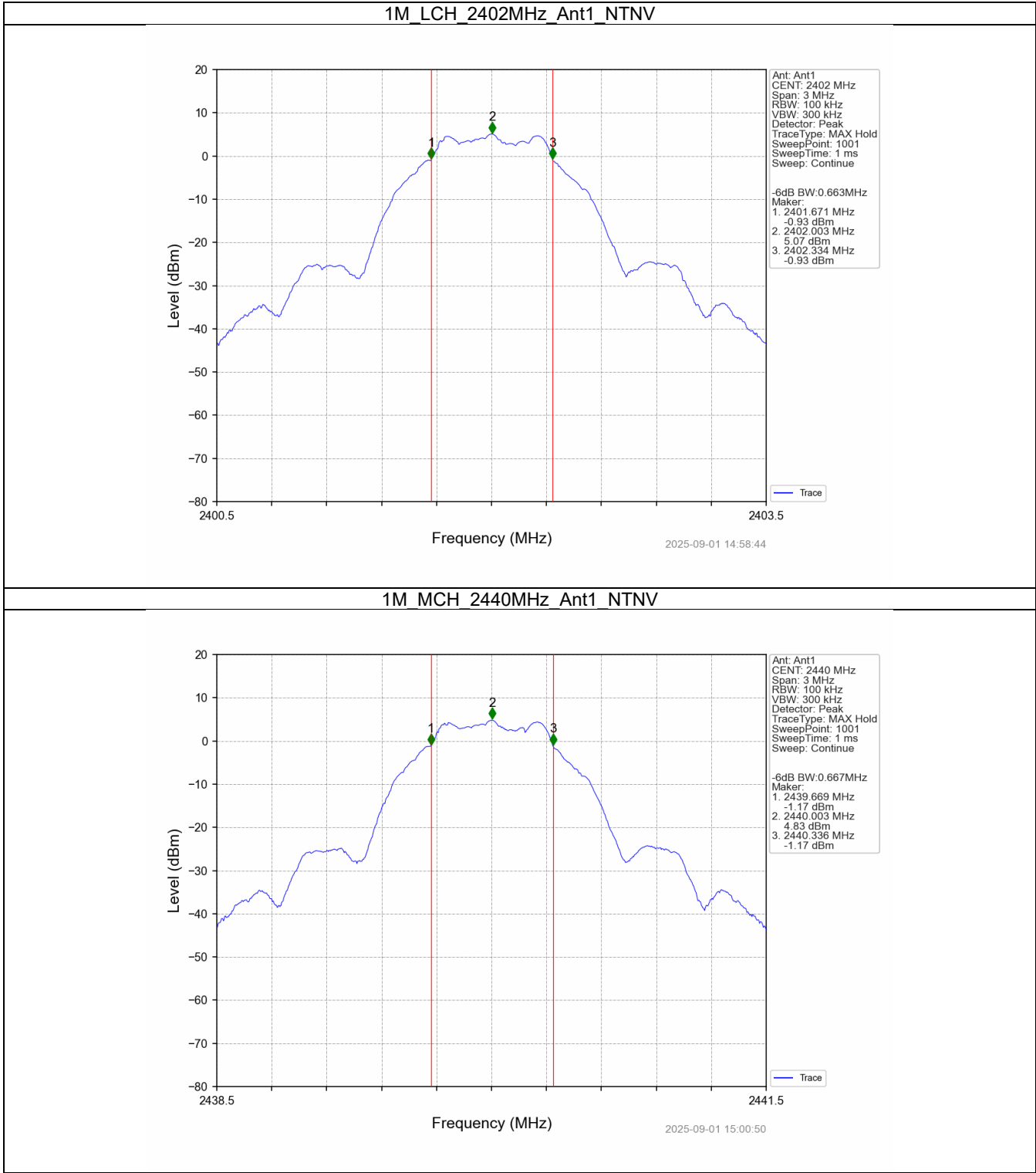
2.2.1 OBW



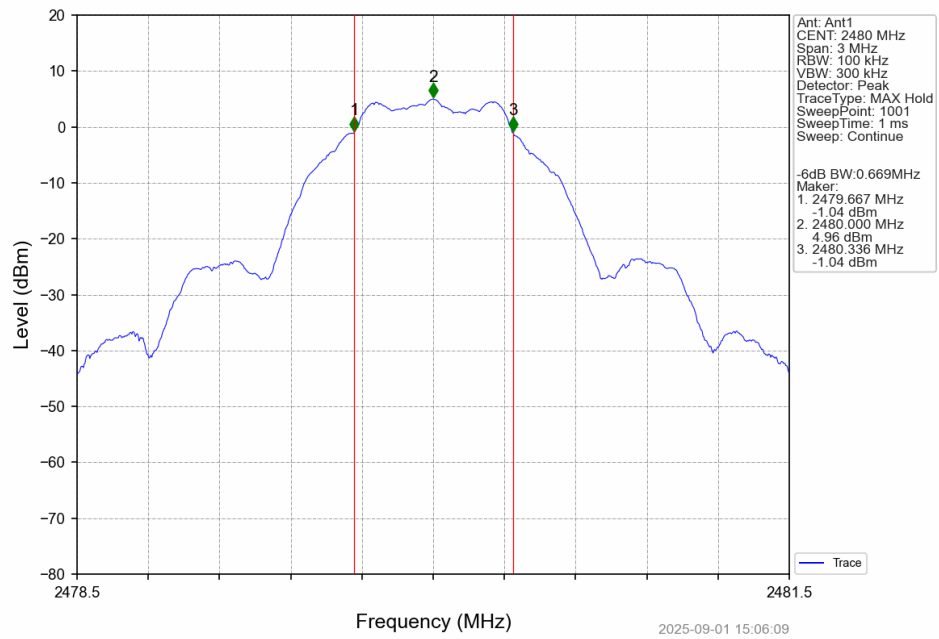
1M HCH 2480MHz Ant1 NTN



2.2.2 6dB BW



1M HCH 2480MHz Ant1 NTN



3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.51	<=30	Pass
		2440	5.28	<=30	Pass
		2480	5.41	<=30	Pass

4. Maximum Power Spectral Density

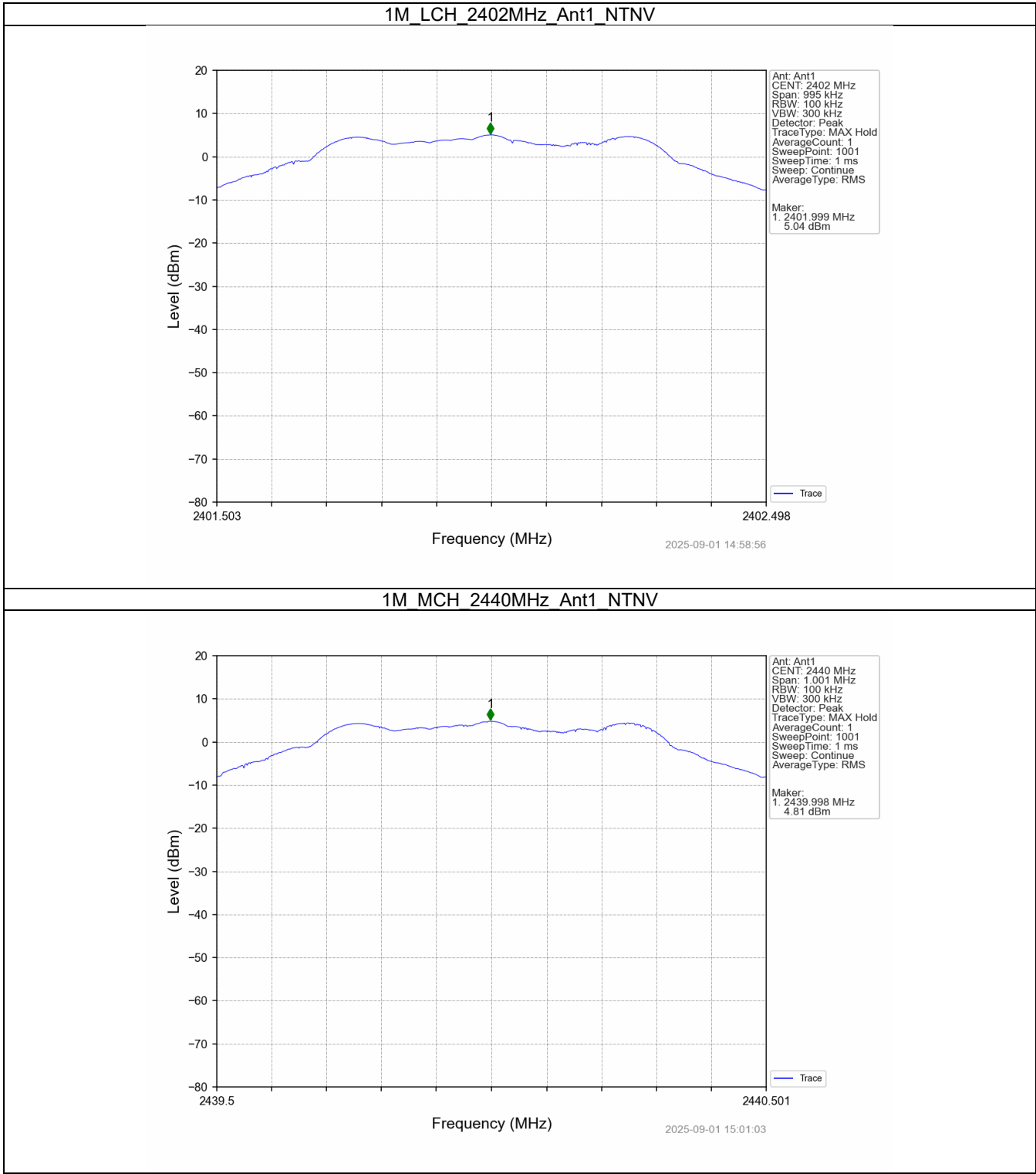
4.1 Test Result

4.1.1 PSD

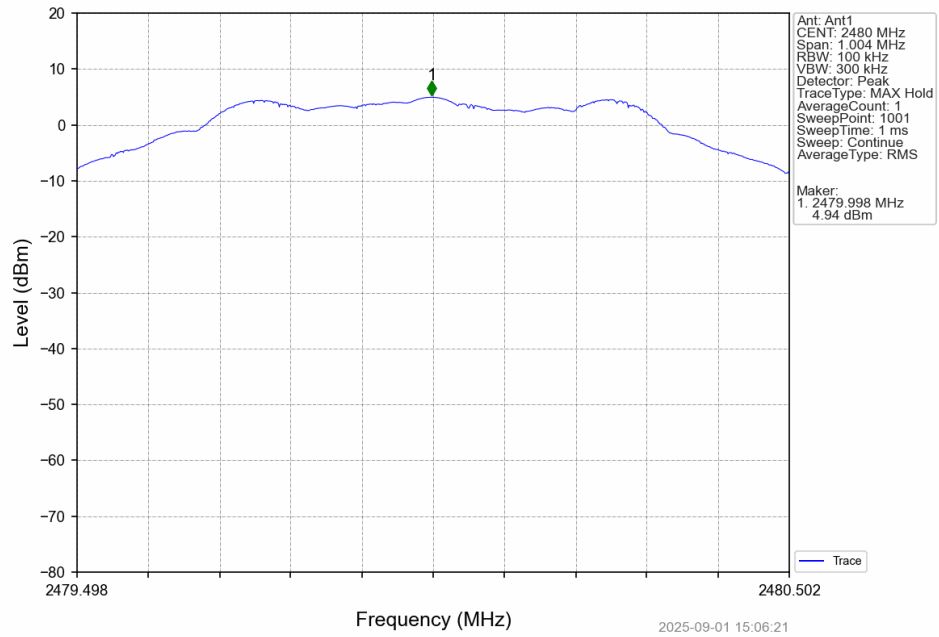
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	5.04	<=8	Pass
		2440	4.81	<=8	Pass
		2480	4.94	<=8	Pass

4.2 Test Graph

4.2.1 PSD



1M HCH 2480MHz Ant1 NTN



5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Test Result

5.1.1 Ref

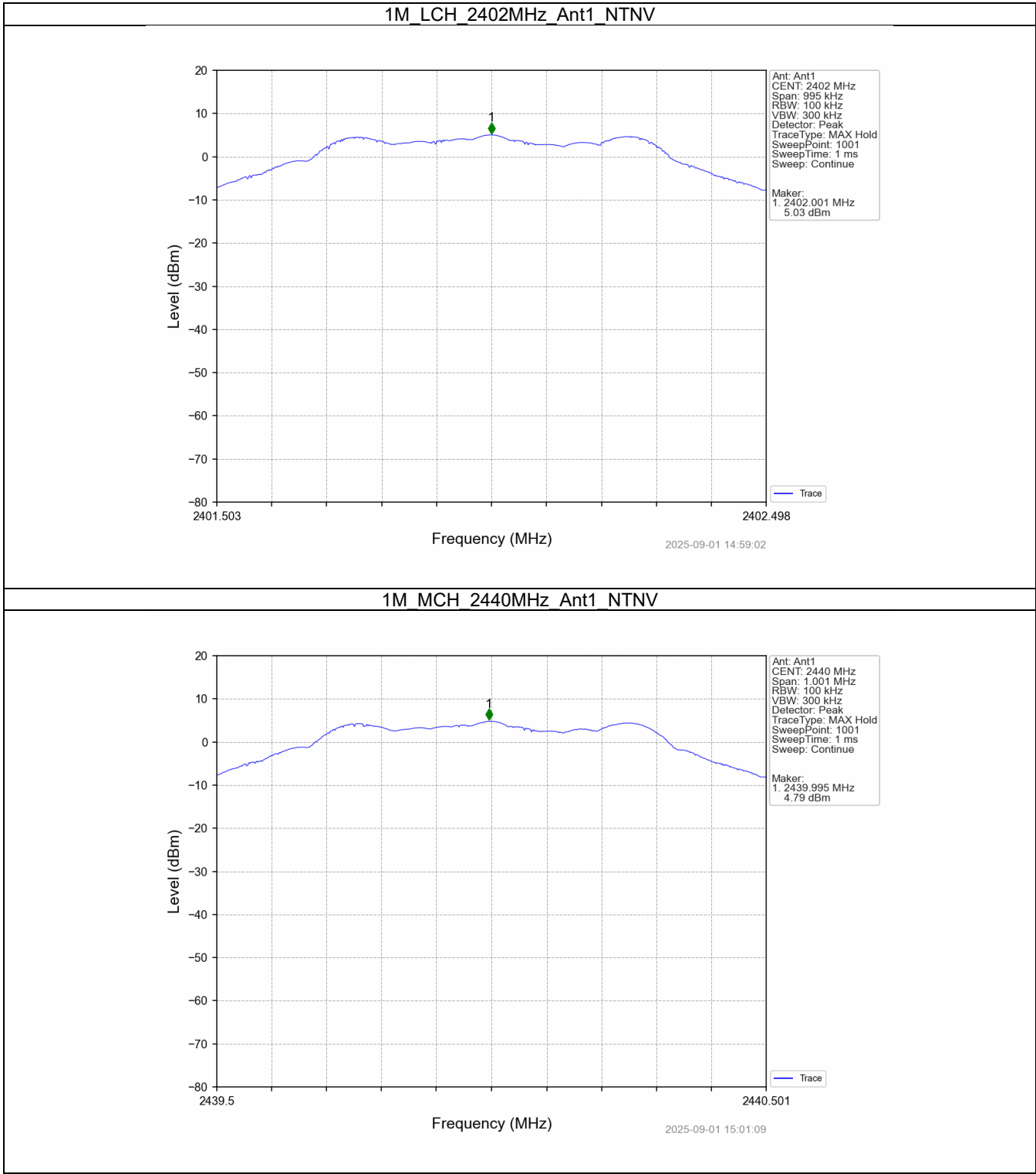
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	5.03
		2440	1	4.79
		2480	1	4.94
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.				

5.1.2 CSE

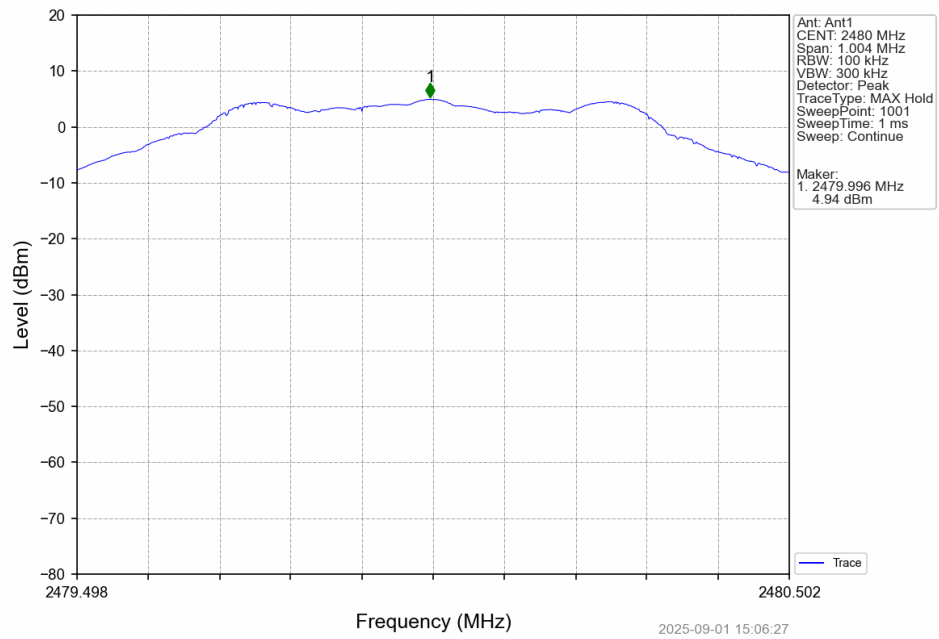
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	5.03	-14.97	Pass
		2440	1	5.03	-14.97	Pass
		2480	1	5.03	-14.97	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.						

5.2 Test Graph

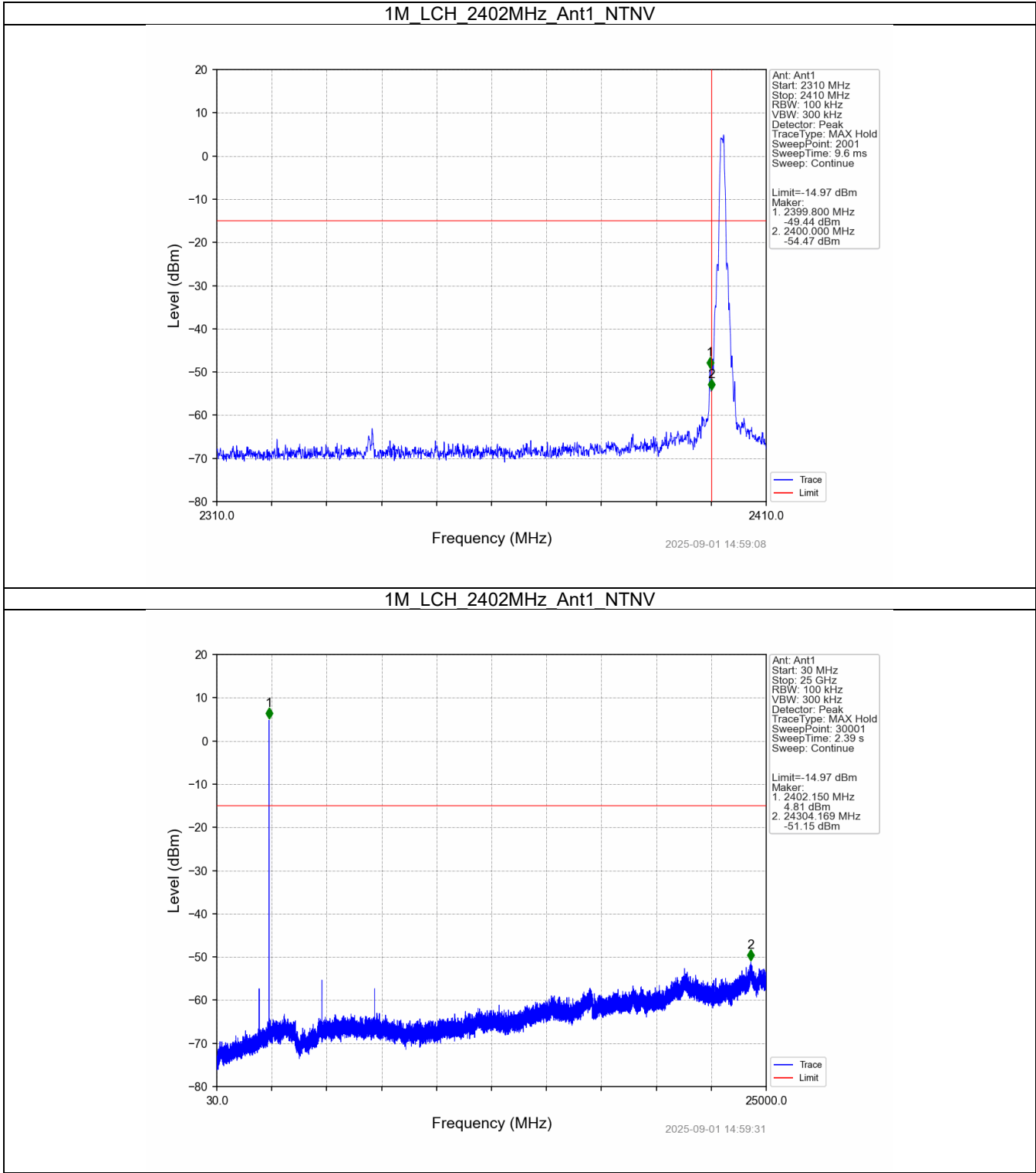
5.2.1 Ref



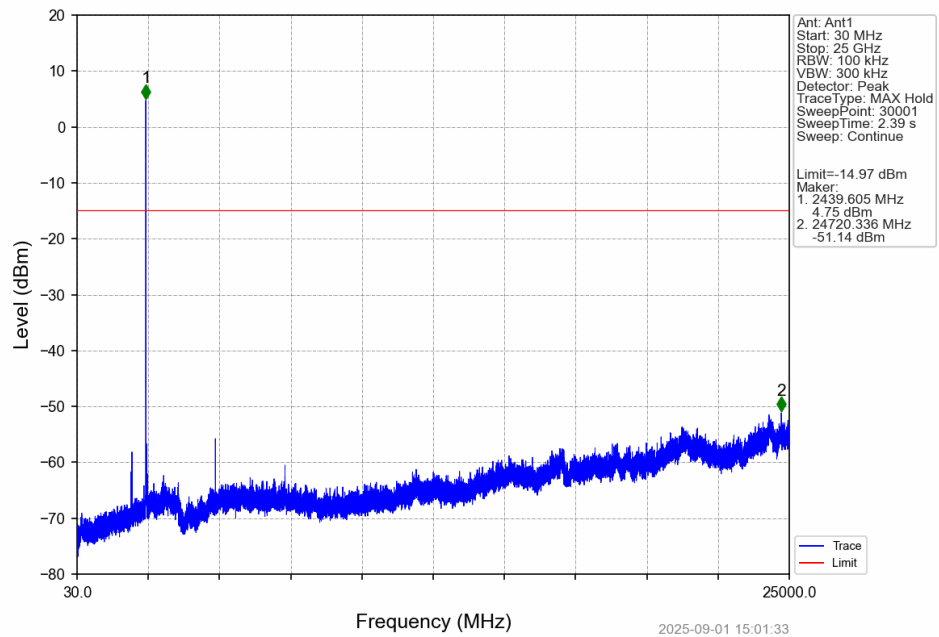
1M HCH 2480MHz Ant1 NTN



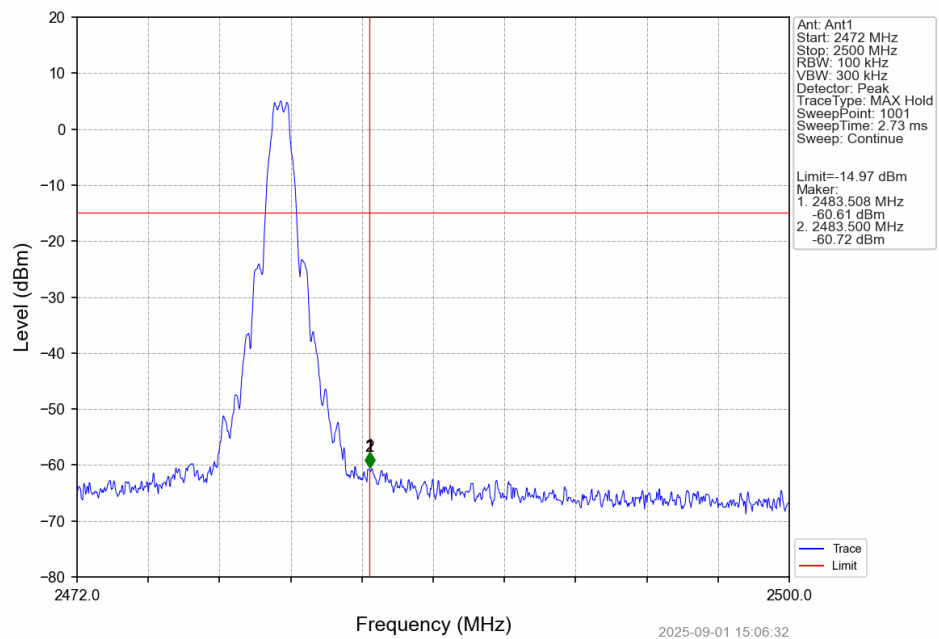
5.2.2 CSE



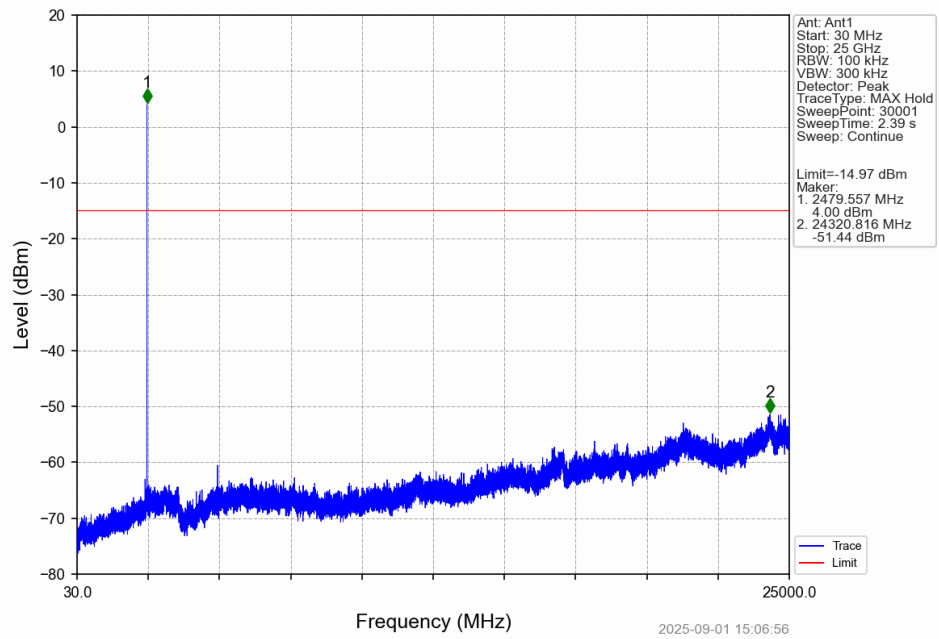
1M MCH 2440MHz Ant1 NTN



1M_HCH_2480MHz_Ant1 NTN

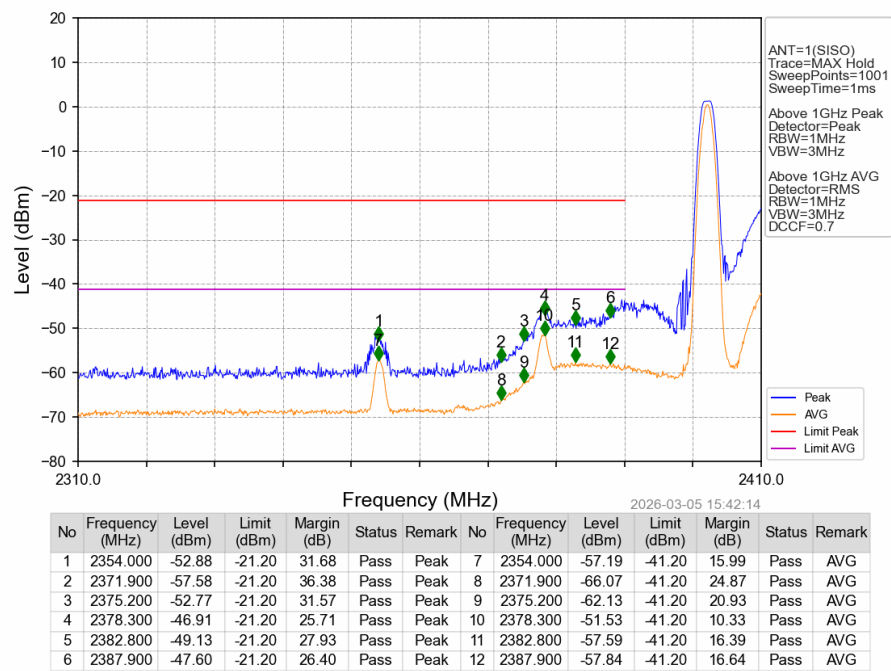


1M HCH 2480MHz Ant1 NTN

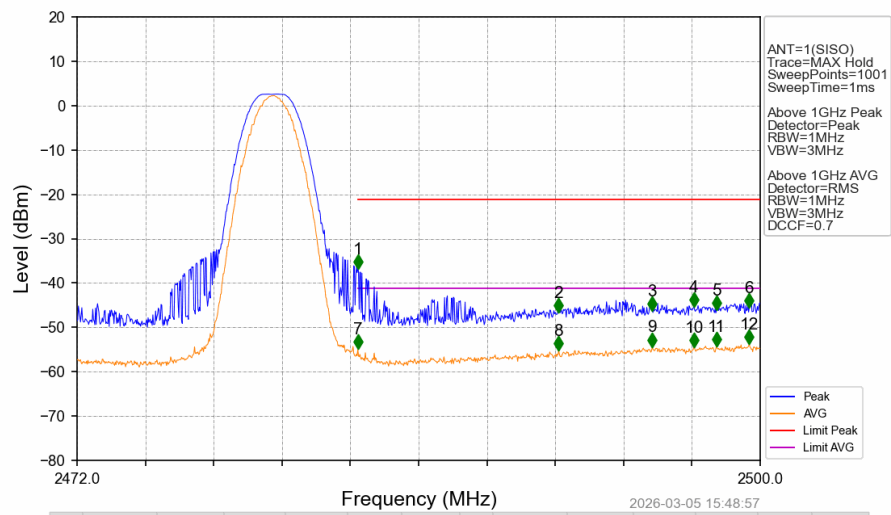


6. Emissions at Restricted Band

1M_LCH_2402MHz_Ant1_NTNV



1M_HCH_2480MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.508	-36.83	-21.20	15.63	Pass	Peak	7	2483.508	-54.87	-41.20	13.67	Pass	AVG
2	2491.740	-46.56	-21.20	25.36	Pass	Peak	8	2491.740	-55.21	-41.20	14.01	Pass	AVG
3	2495.576	-46.19	-21.20	24.99	Pass	Peak	9	2495.576	-54.36	-41.20	13.16	Pass	AVG
4	2497.284	-45.35	-21.20	24.15	Pass	Peak	10	2497.284	-54.40	-41.20	13.20	Pass	AVG
5	2498.208	-46.08	-21.20	24.88	Pass	Peak	11	2498.208	-54.24	-41.20	13.04	Pass	AVG
6	2499.552	-45.58	-21.20	24.38	Pass	Peak	12	2499.552	-53.75	-41.20	12.55	Pass	AVG