



Appendix A

RF Test Data for BT LE (Conducted Measurement)

Product Name: RGBIC Car LED Strip Light

Test Model: PAK544606

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Nick Peng



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Scan code to check authenticity

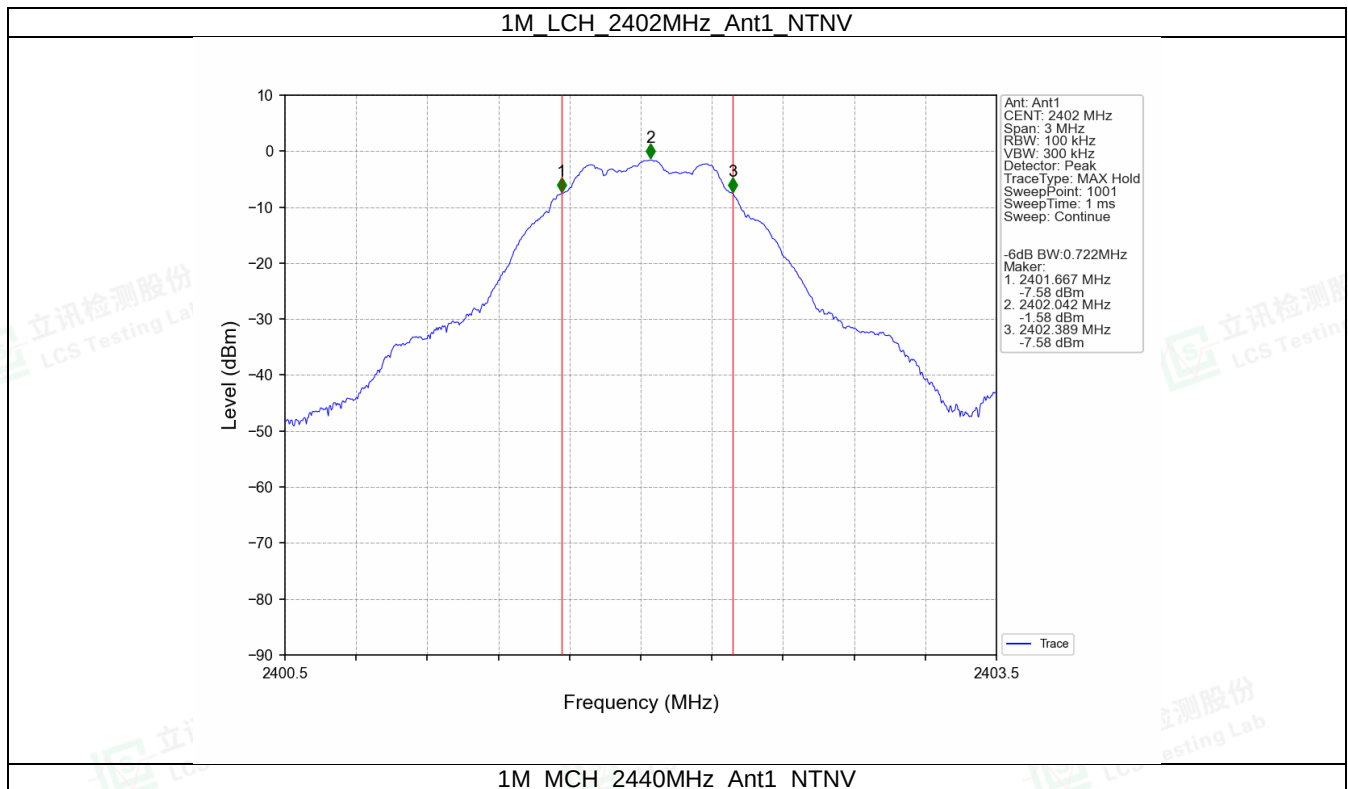


A.1 -6dB Bandwidth

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.722	≥ 0.5	Pass
		2440	1	0.723	≥ 0.5	Pass
		2480	1	0.722	≥ 0.5	Pass
2M	SISO	2402	1	1.187	≥ 0.5	Pass
		2440	1	1.260	≥ 0.5	Pass
		2480	1	1.182	≥ 0.5	Pass

1.1 Test Graph

1.1.1 6dB BW

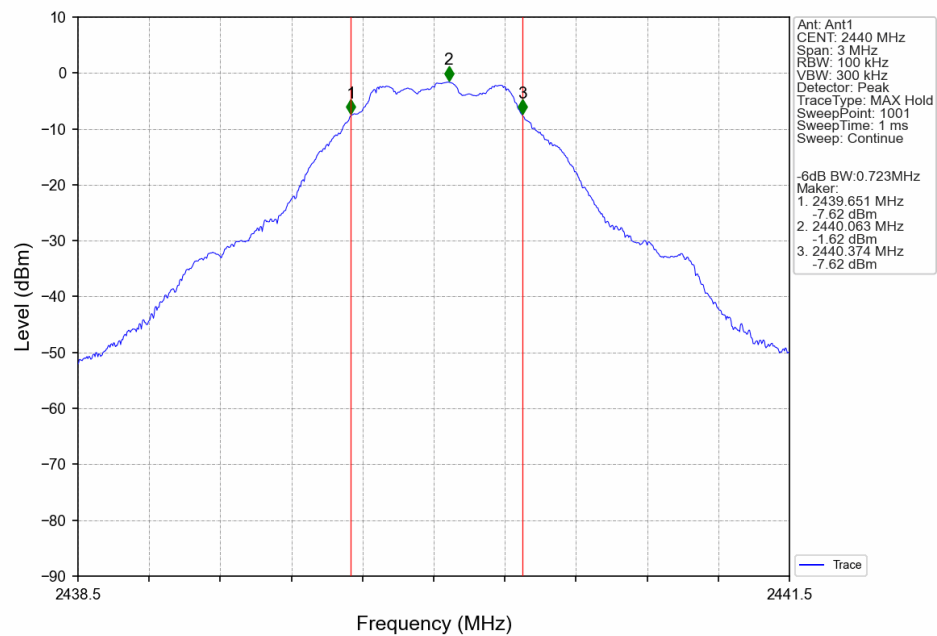


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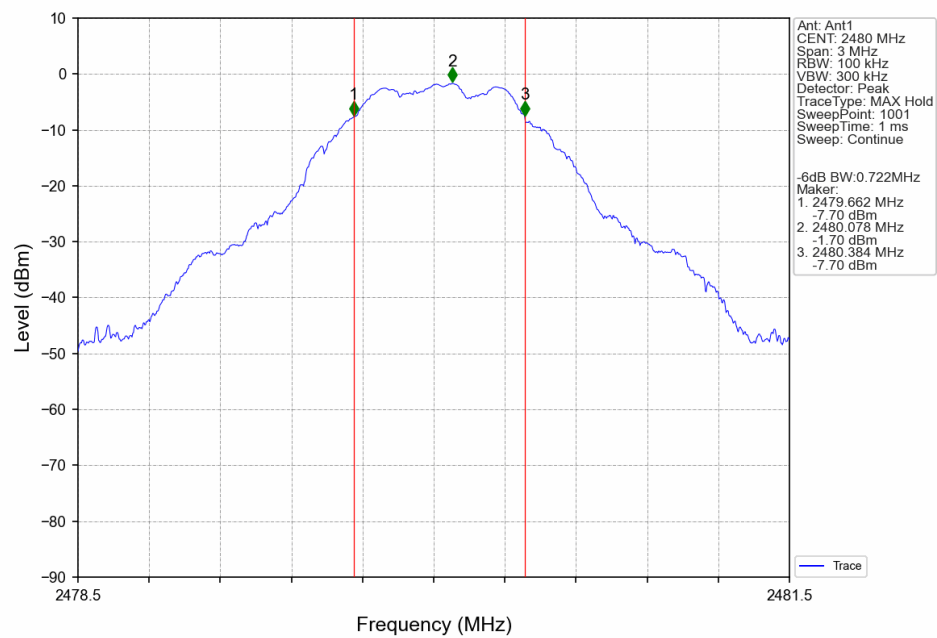
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV

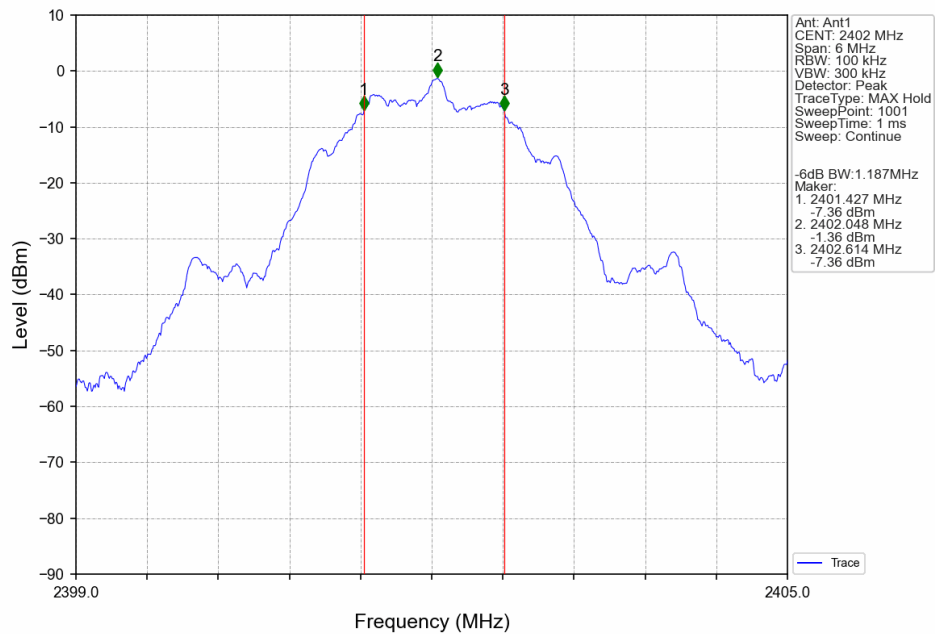


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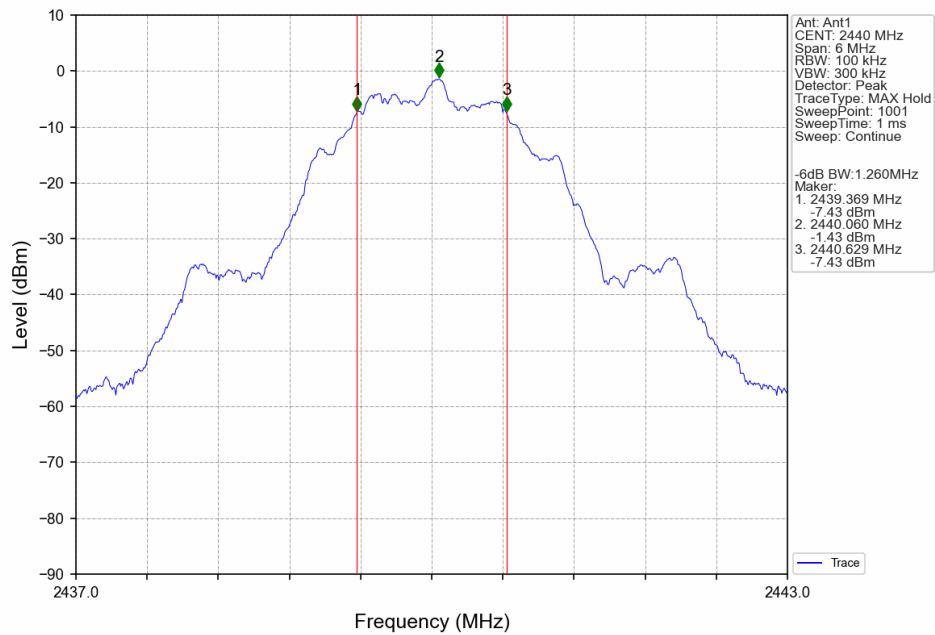
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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

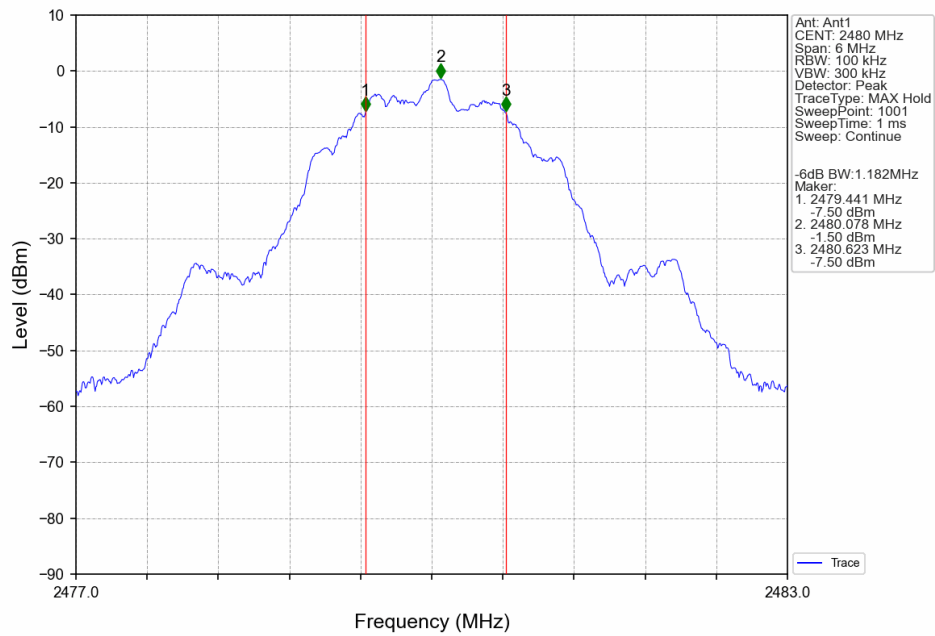


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A.2 Maximum Peak Conducted Output Power

2.1 Test Result

2.1.1 Power

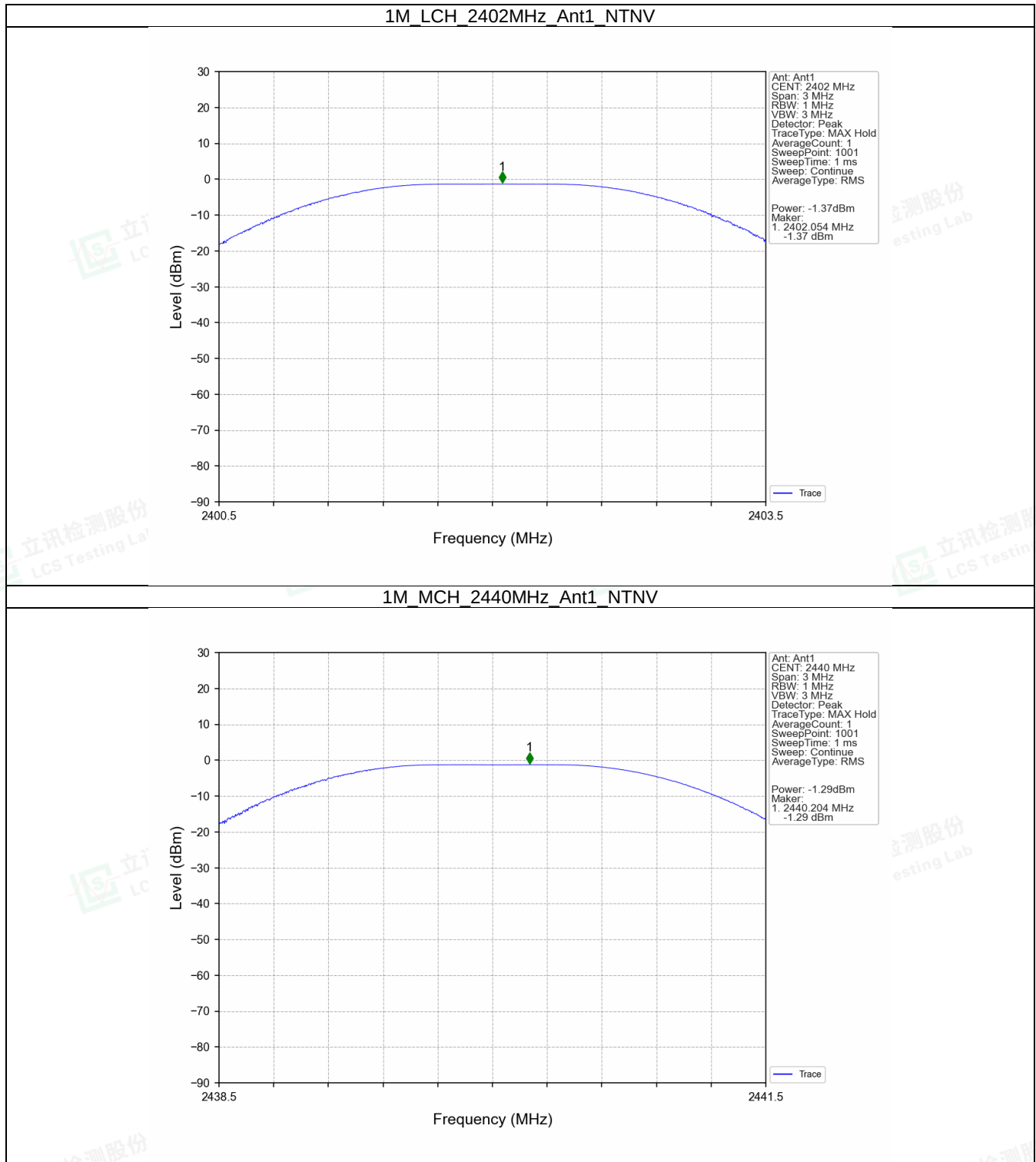
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-1.37	≤ 30	Pass
		2440	-1.29	≤ 30	Pass
		2480	-1.36	≤ 30	Pass
2M	SISO	2402	-1.25	≤ 30	Pass
		2440	-1.15	≤ 30	Pass
		2480	-1.21	≤ 30	Pass





2.2 Test Graph

2.2.1 Power



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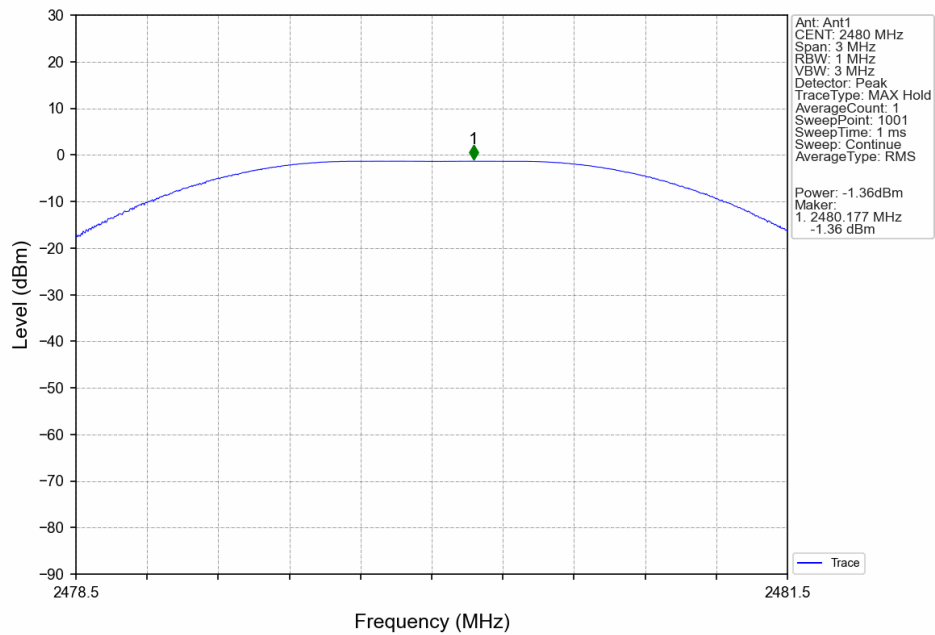
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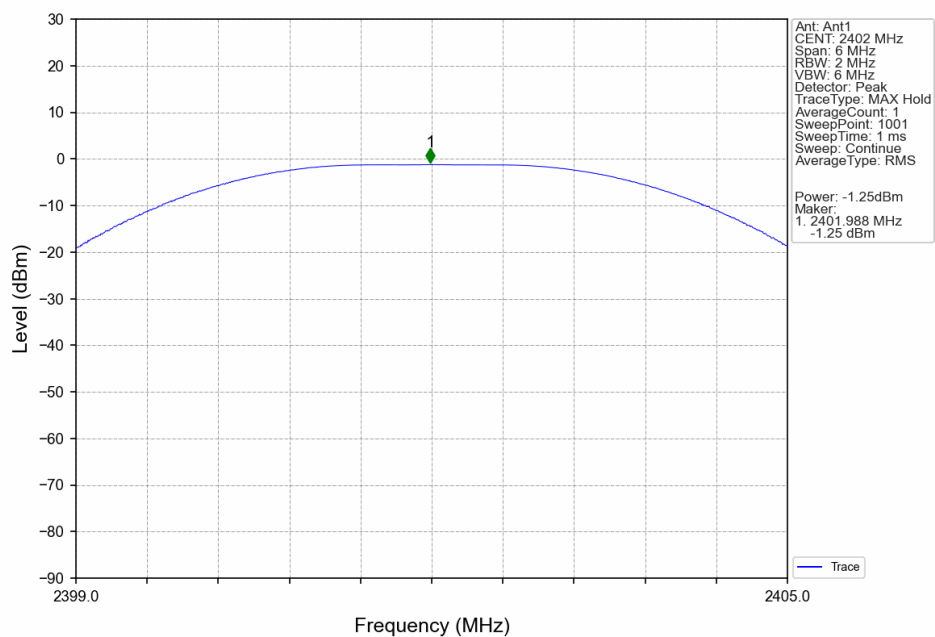
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1M HCH 2480MHz Ant1 NTV



2M LCH 2402MHz Ant1 NTV



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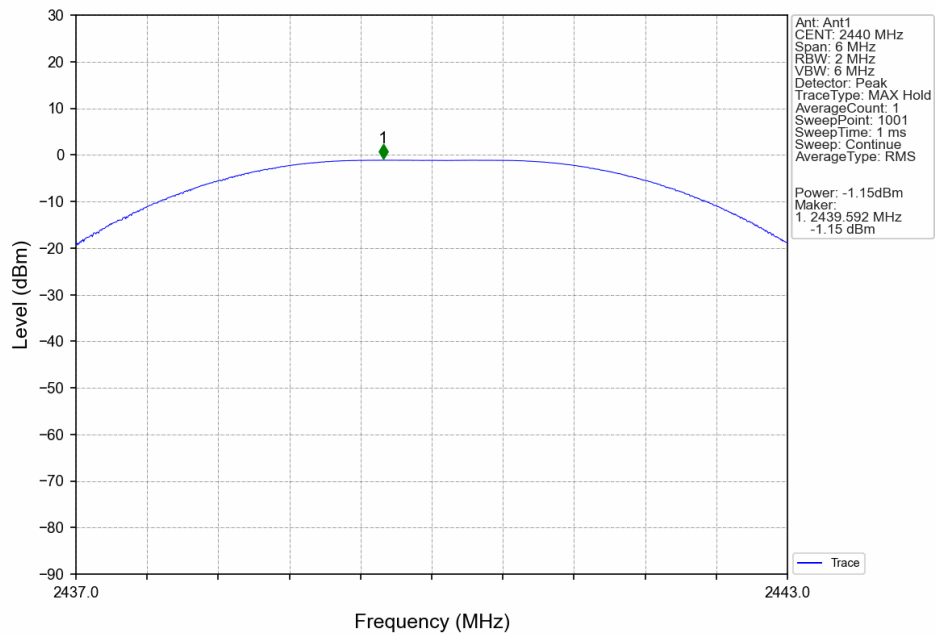
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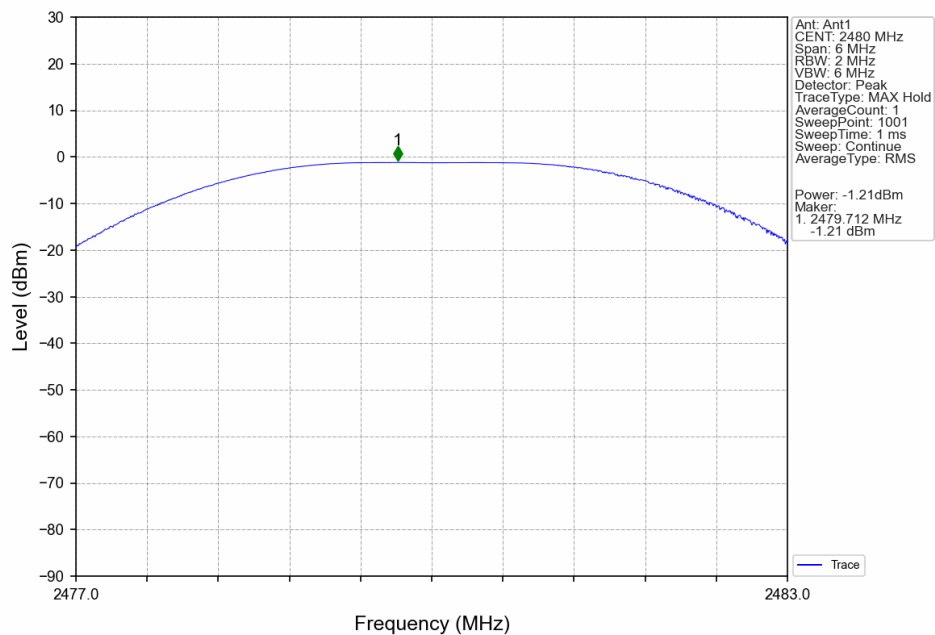
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2M MCH 2440MHz Ant1 NTNV



2M HCH 2480MHz Ant1 NTNV



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A.3 Maximum Power Spectral Density Level

3.1 Test Result

3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.30	<=8	Pass
		2440	-16.03	<=8	Pass
		2480	-14.80	<=8	Pass
2M	SISO	2402	-19.66	<=8	Pass
		2440	-19.59	<=8	Pass
		2480	-18.84	<=8	Pass

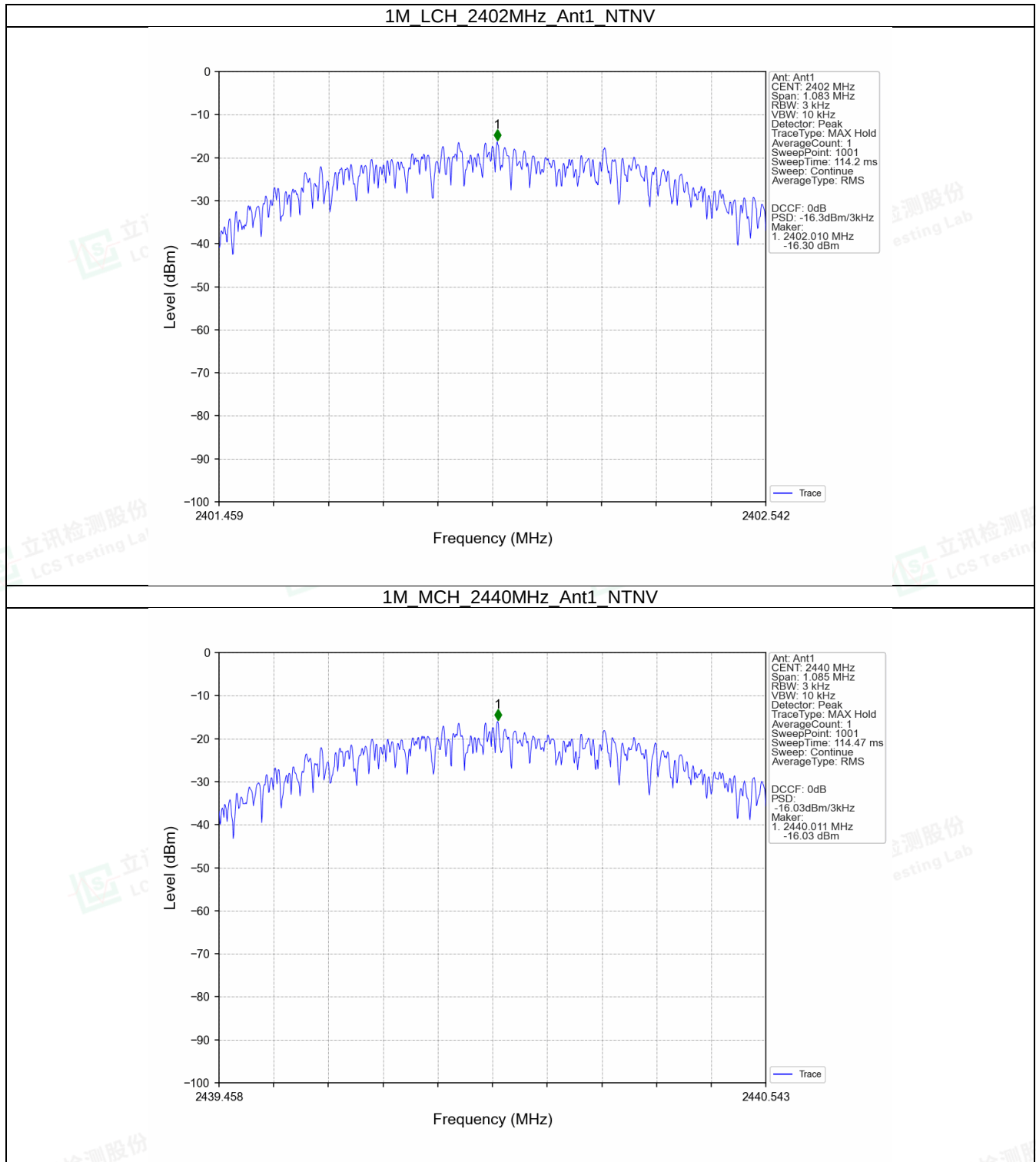
Note1: Antenna Gain: Ant1: 0.00dBi;





3.2 Test Graph

3.2.1 PSD



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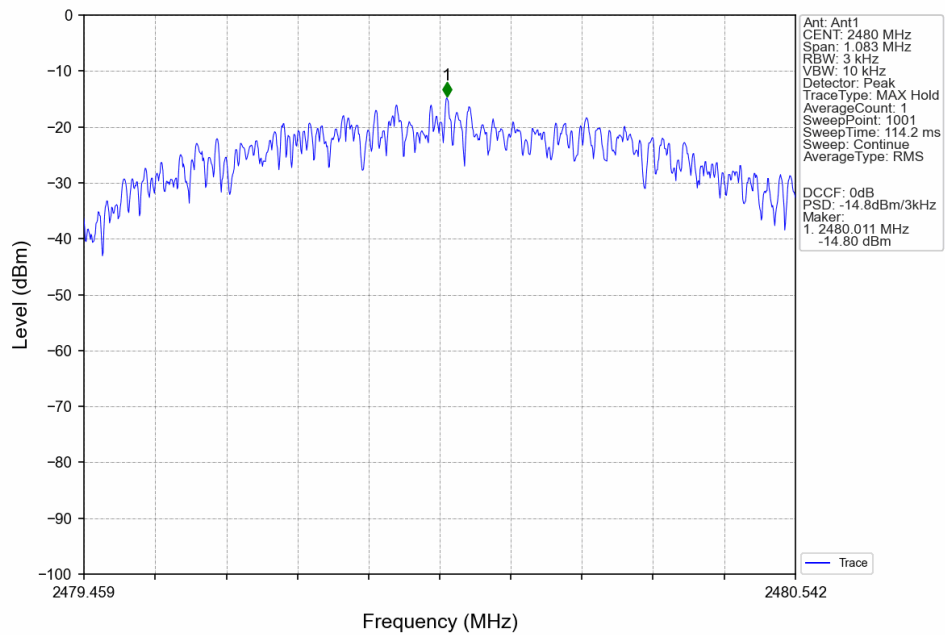
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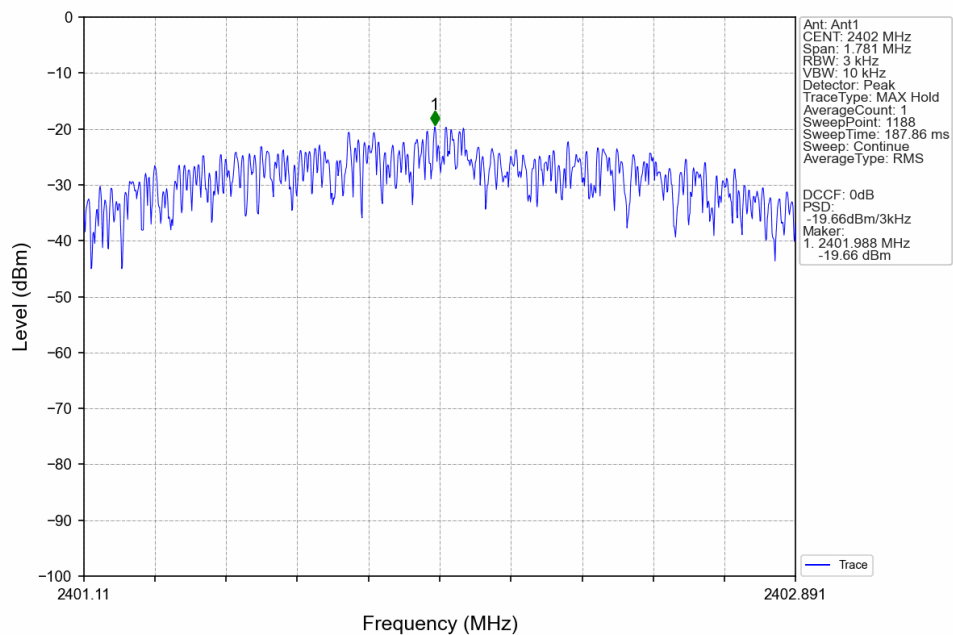
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1M HCH 2480MHz Ant1 NTV



2M LCH 2402MHz Ant1 NTV



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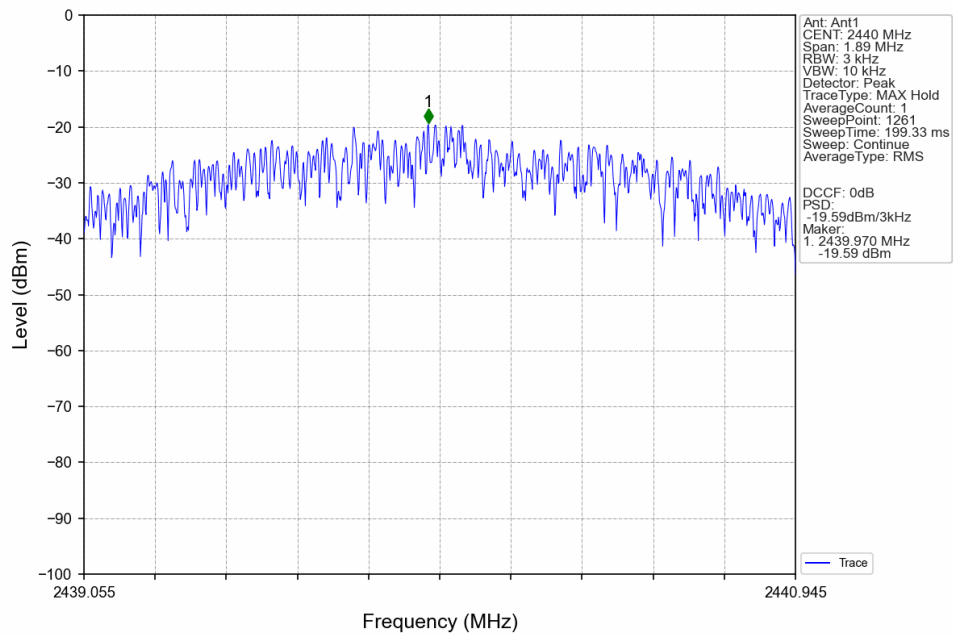
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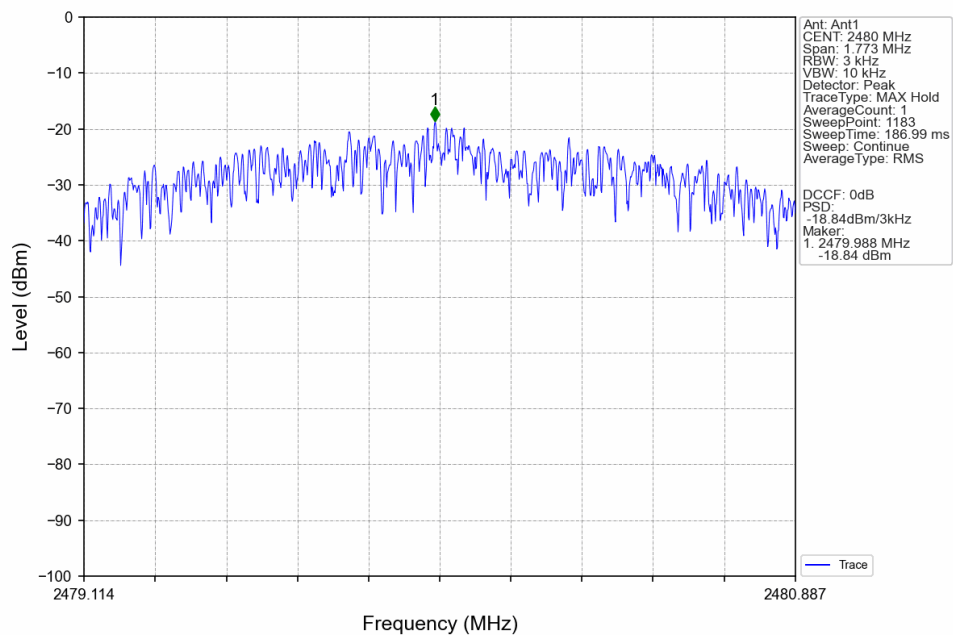
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2M MCH 2440MHz Ant1 NTN



2M HCH 2480MHz Ant1 NTN



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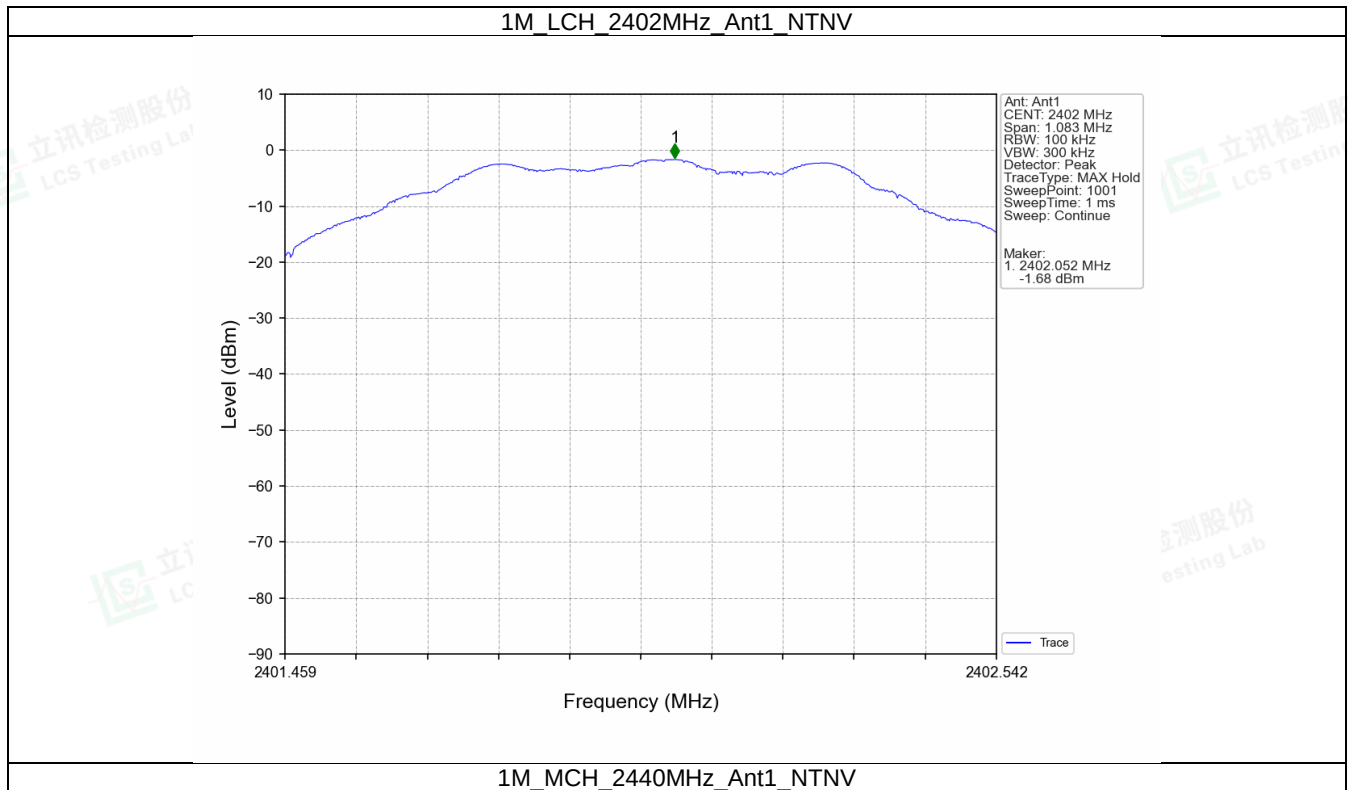
A.4 Band Edge

4.1 Test Result

Mode	Tx Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.68	-21.68	Pass
		2440	1	-1.68	-21.68	Pass
		2480	1	-1.68	-21.68	Pass
2M	SISO	2402	1	-1.64	-21.64	Pass
		2440	1	-1.64	-21.64	Pass
		2480	1	-1.64	-21.64	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

4.1.1 Ref

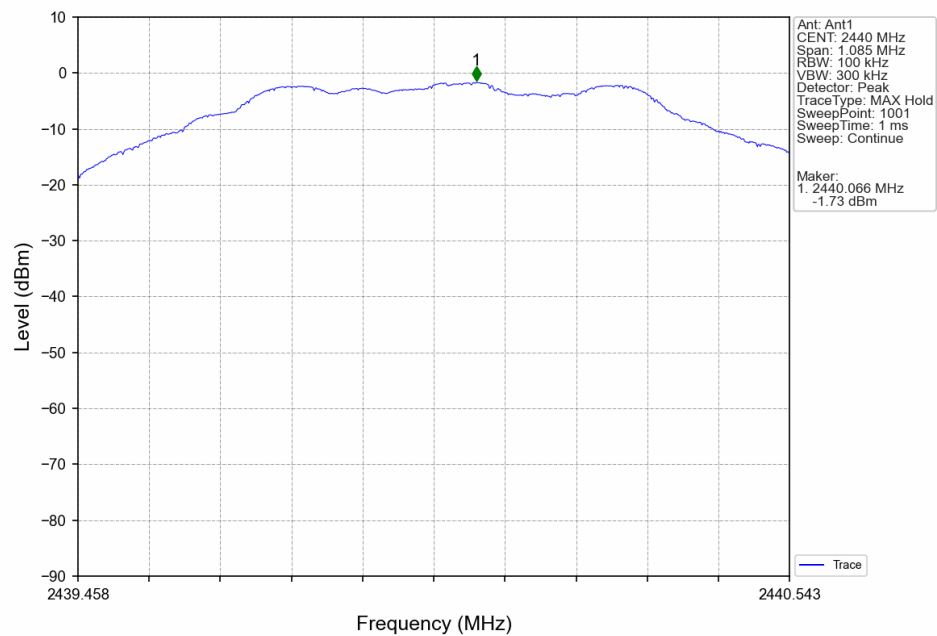


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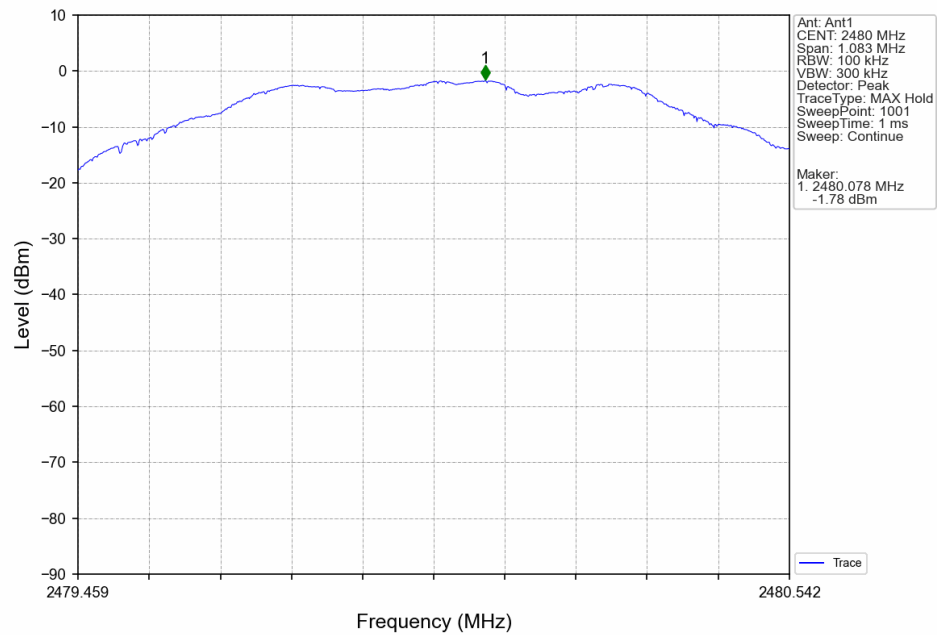
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV

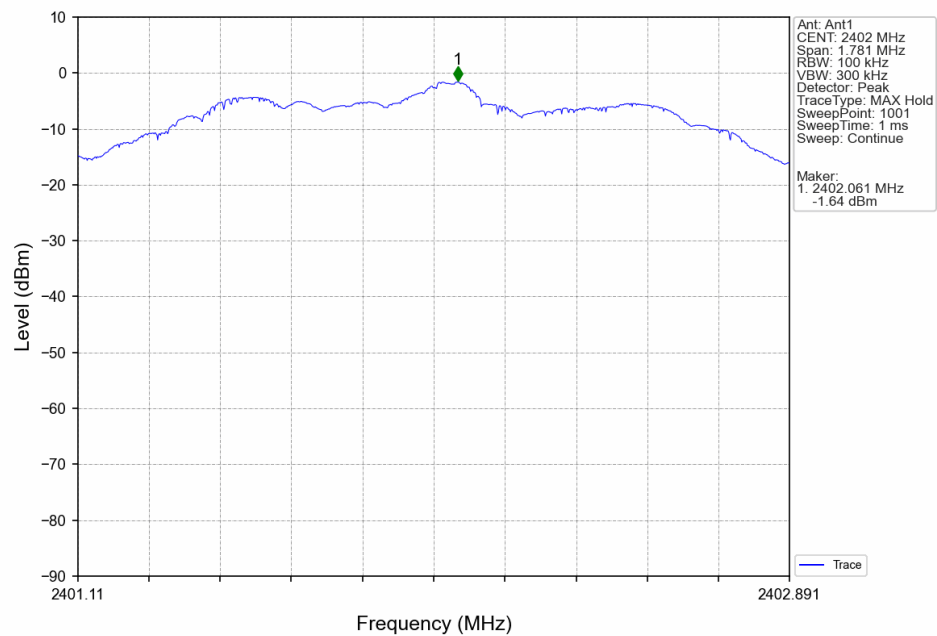


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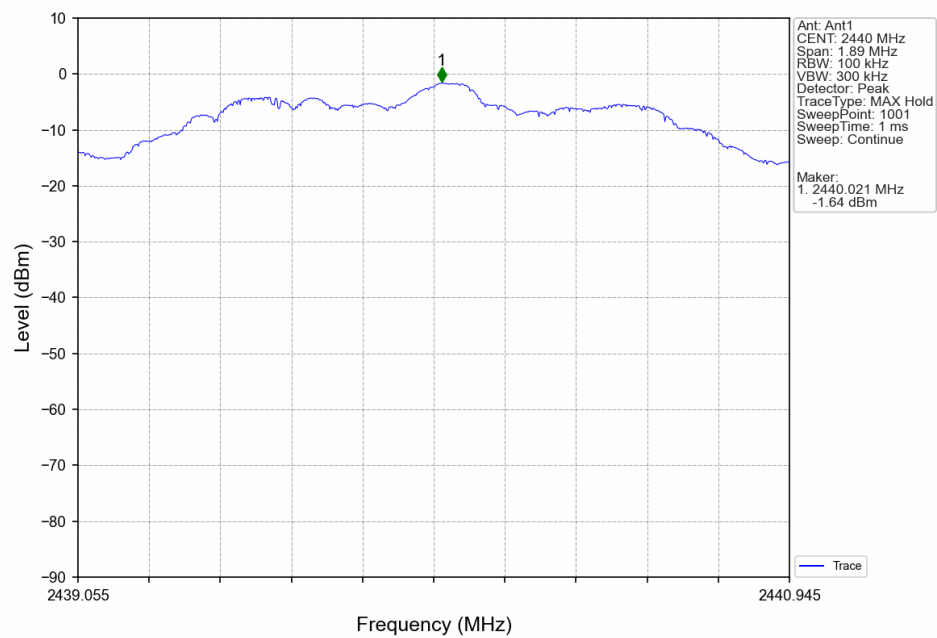
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV

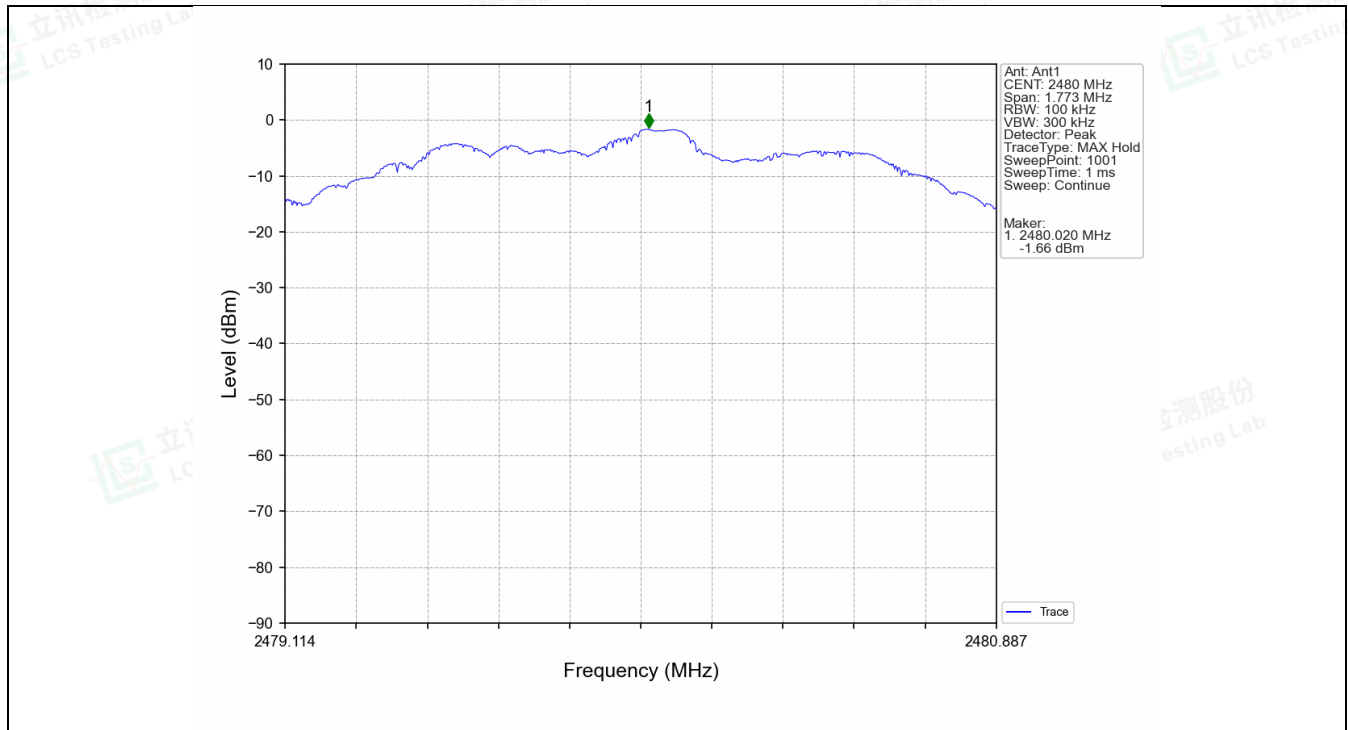


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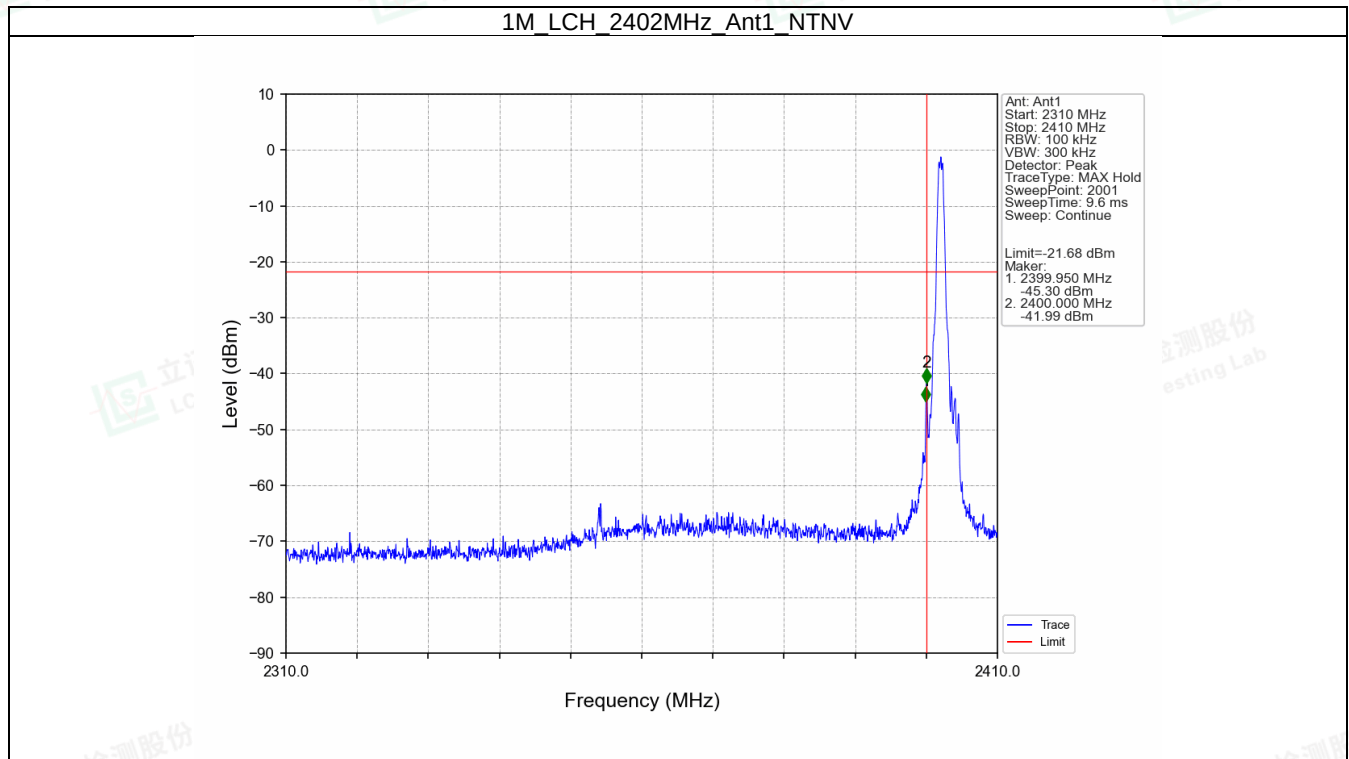
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4.1.2 Band Edge

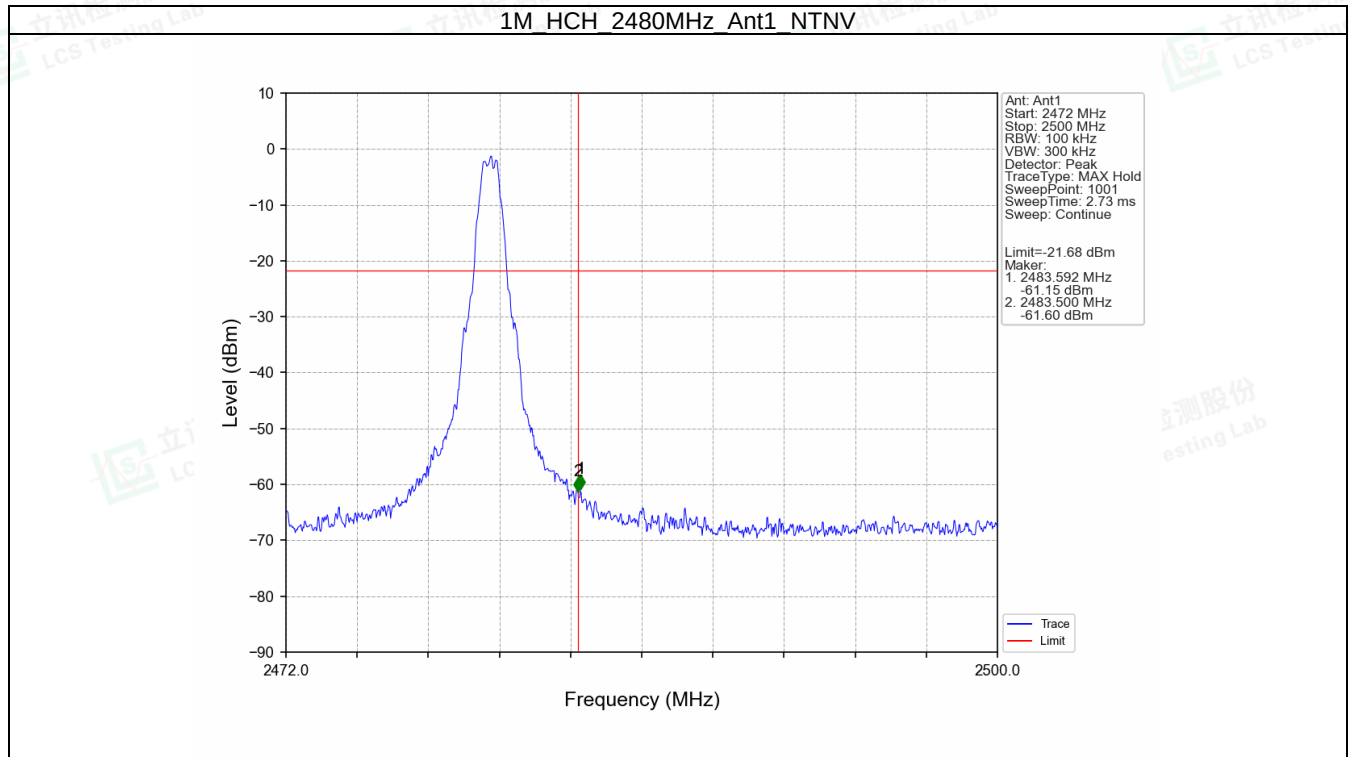


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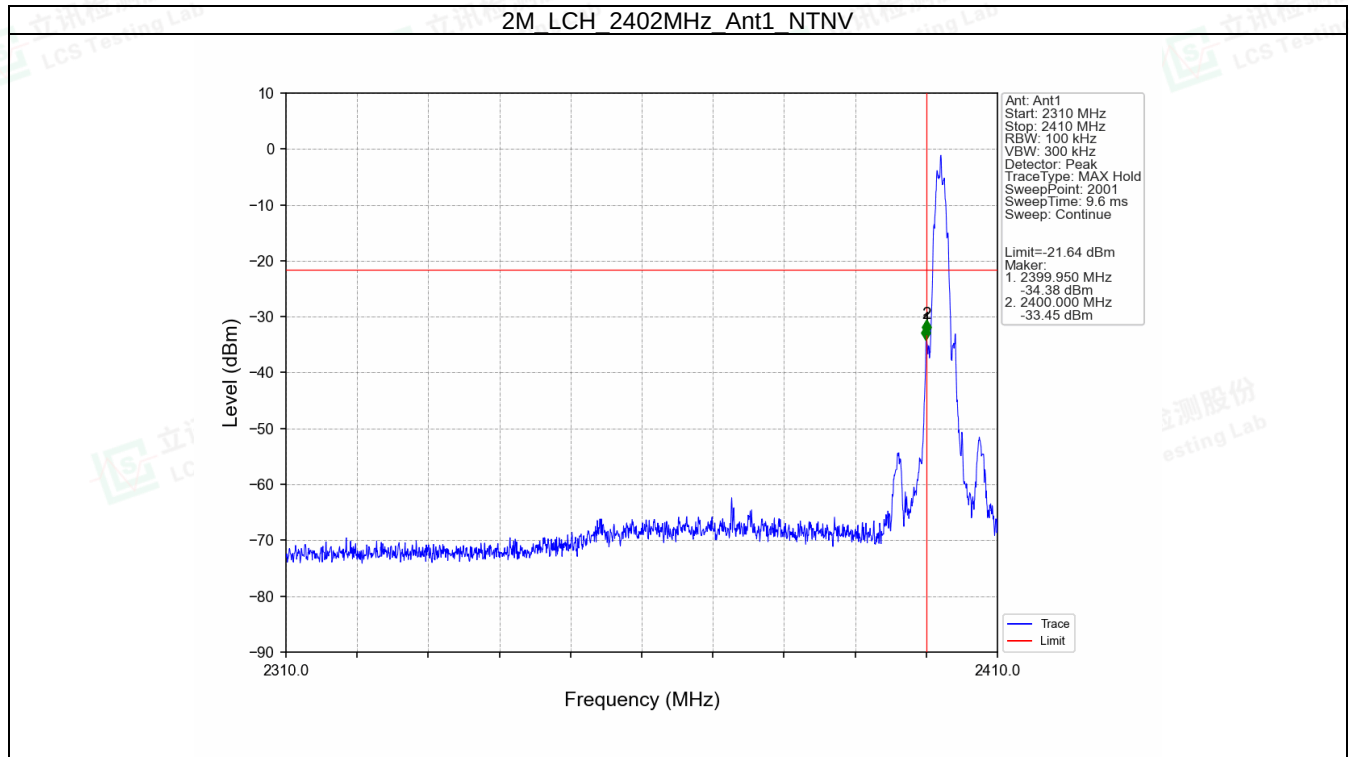


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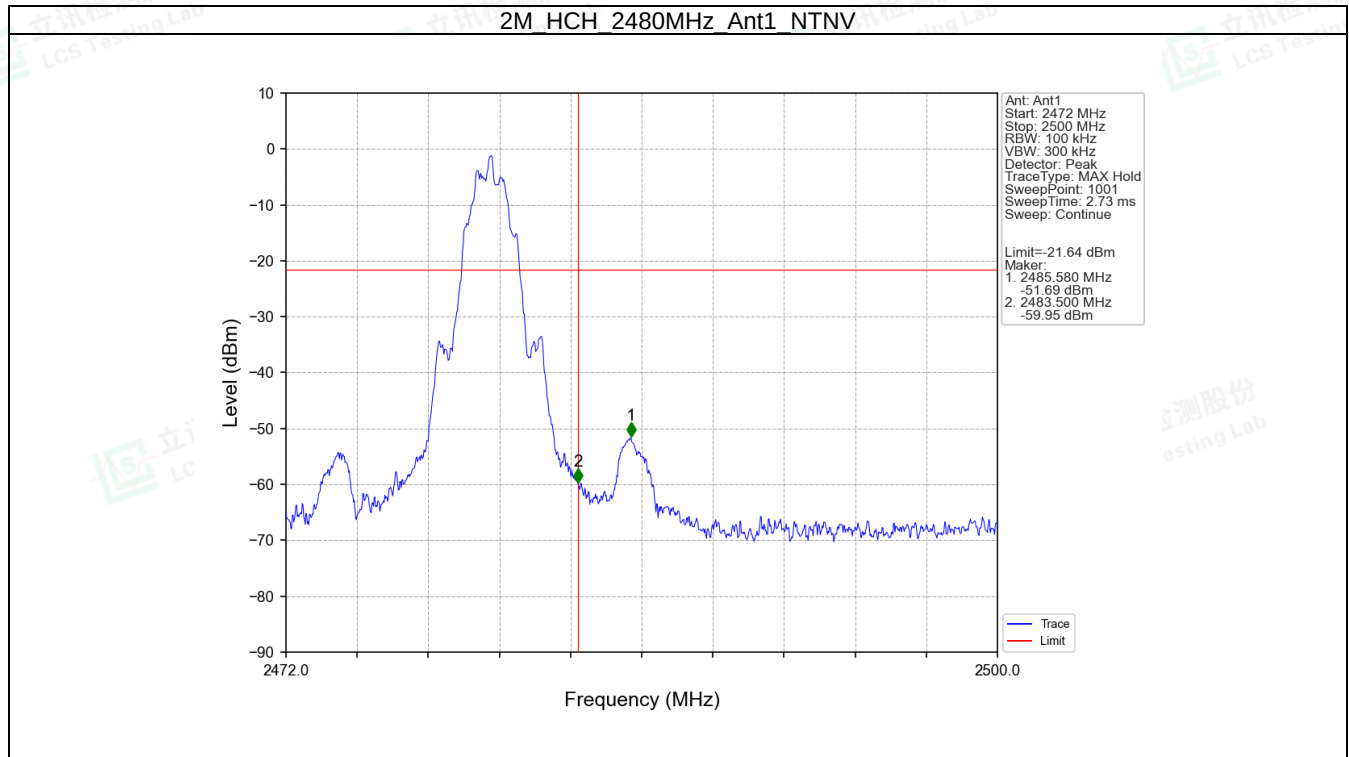


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A.5 Conducted RF Spurious Emission

5.1 Test Result

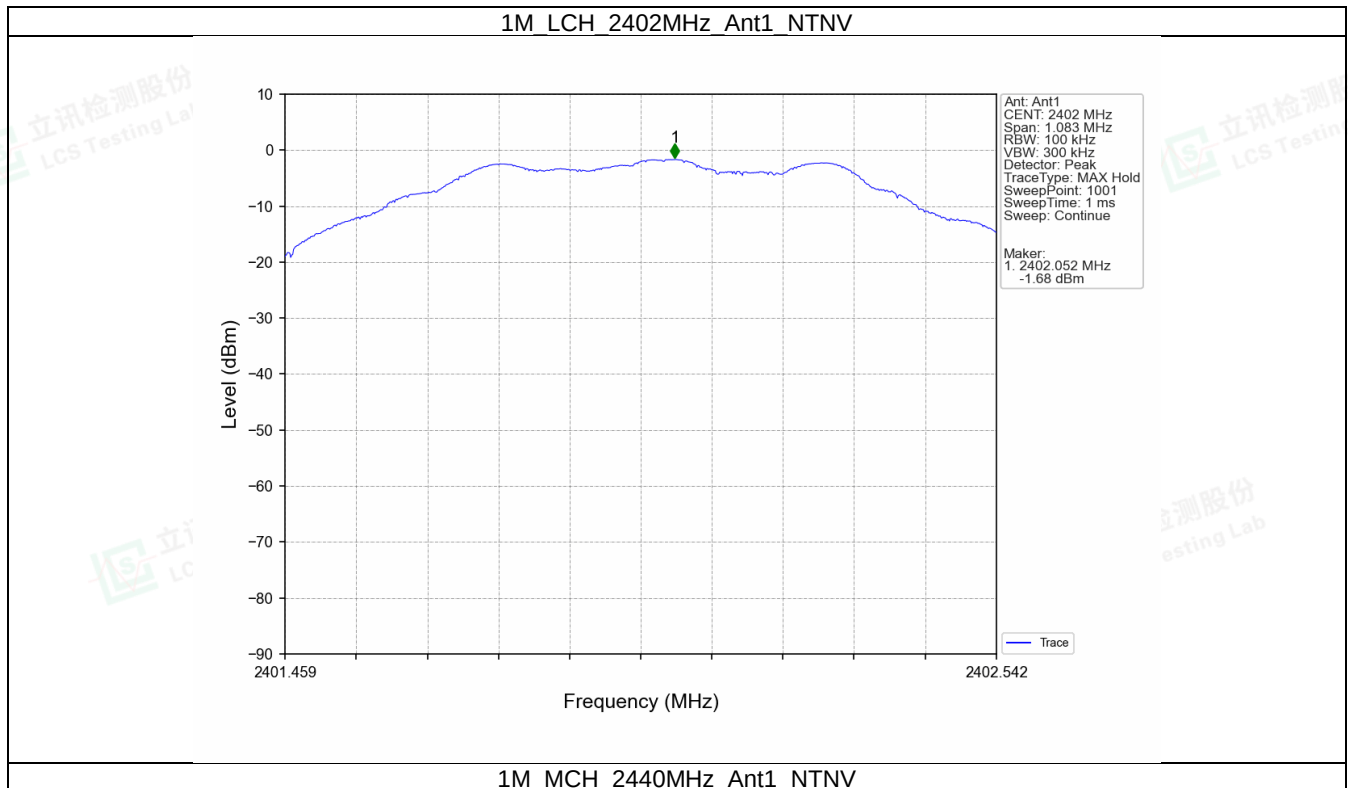
5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.68
		2440	1	-1.73
		2480	1	-1.78
2M	SISO	2402	1	-1.64
		2440	1	-1.64
		2480	1	-1.66

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

5.2 Test Graph

5.2.1 Ref

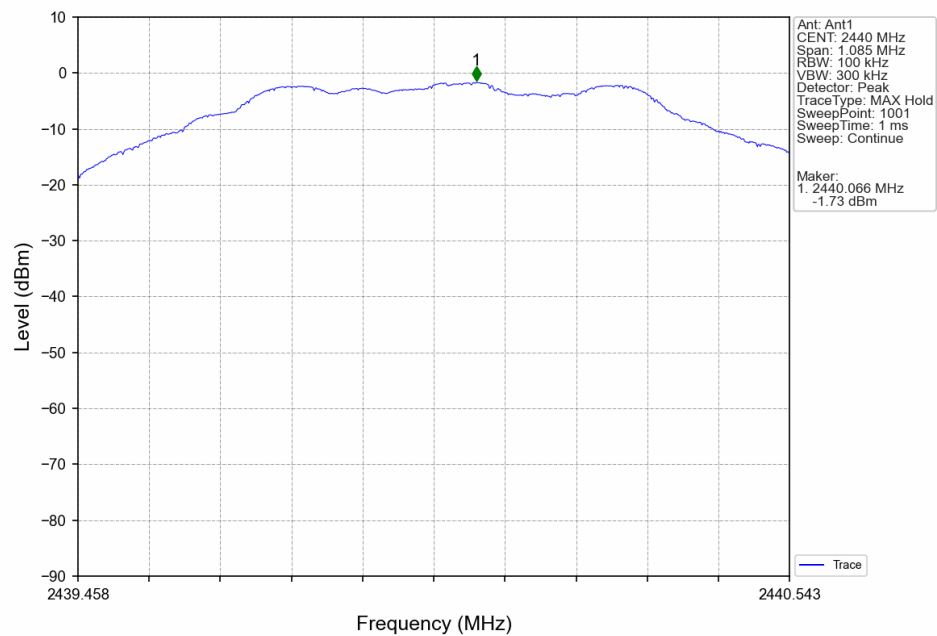


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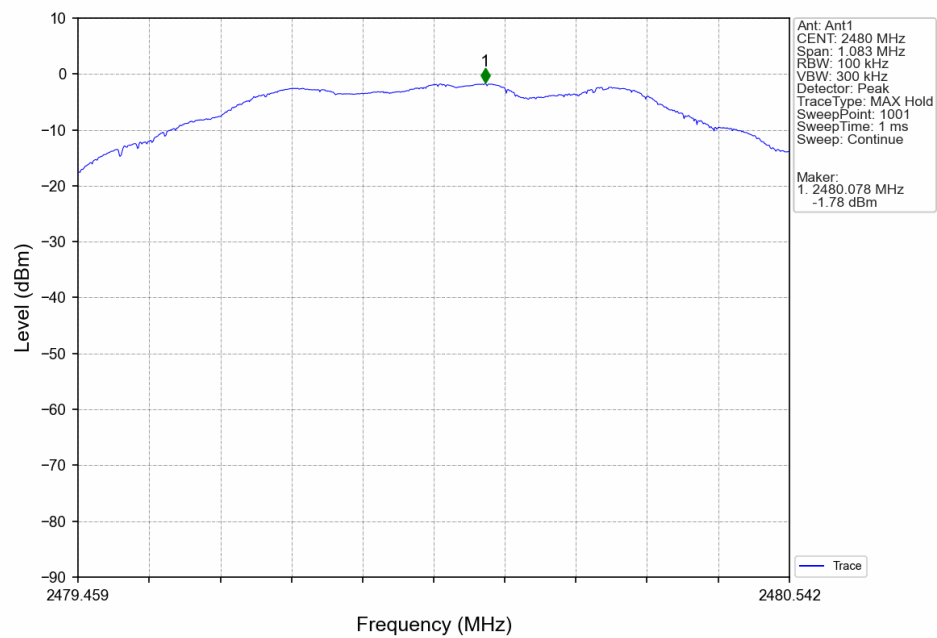
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1M_HCH_2480MHz_Ant1_NTNV



2M_LCH_2402MHz_Ant1_NTNV

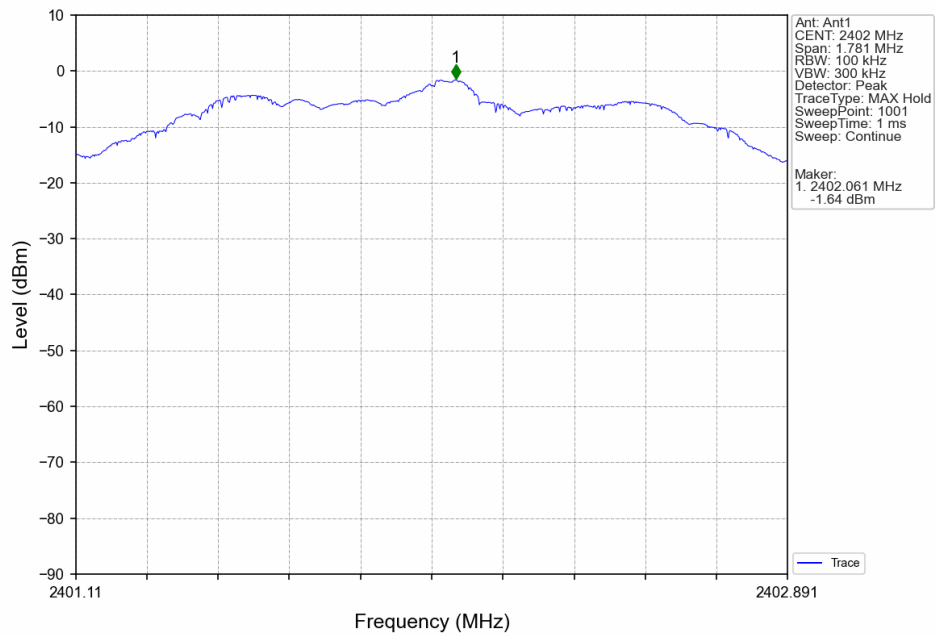


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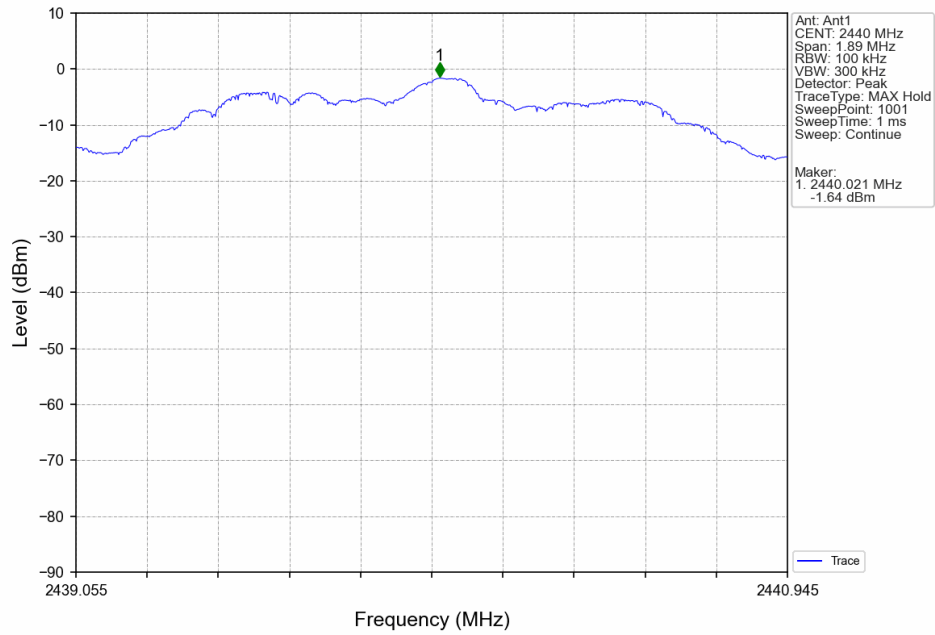
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2M_HCH_2480MHz_Ant1_NTNV

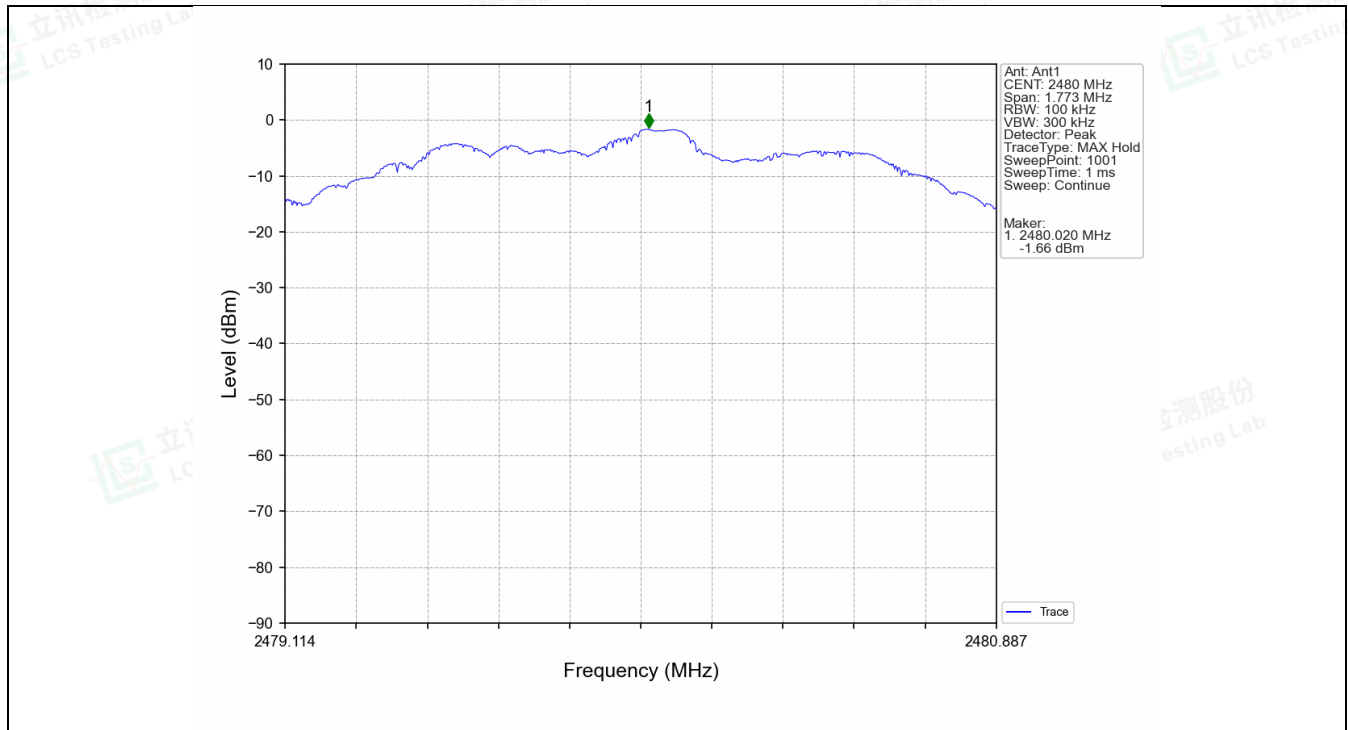


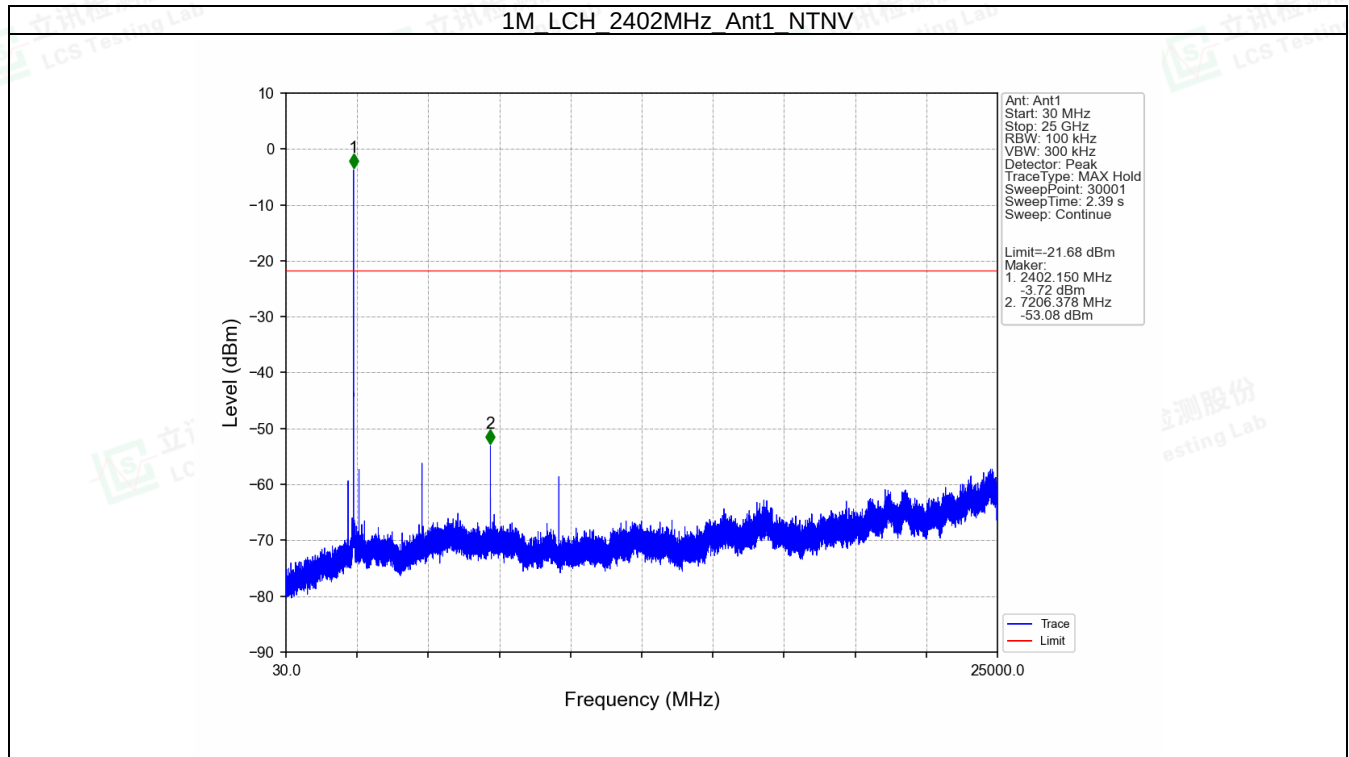
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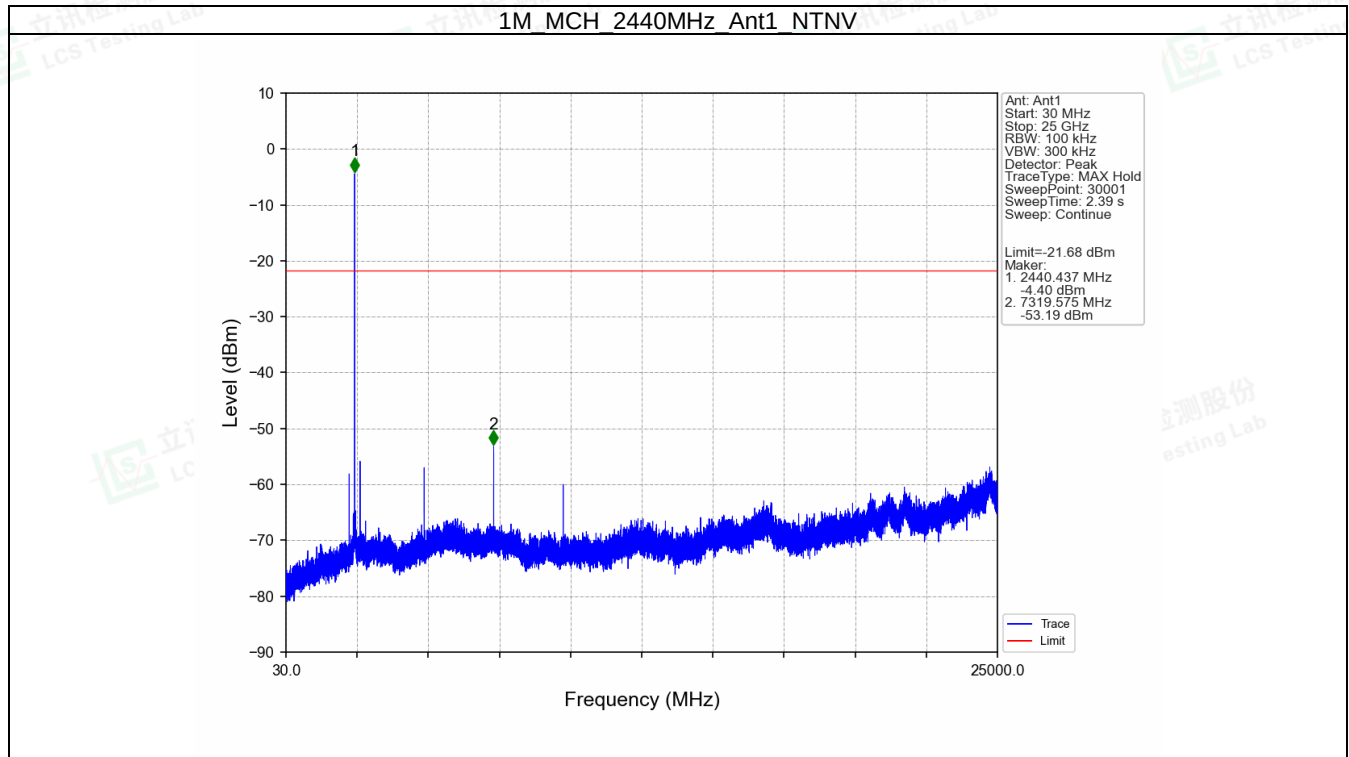


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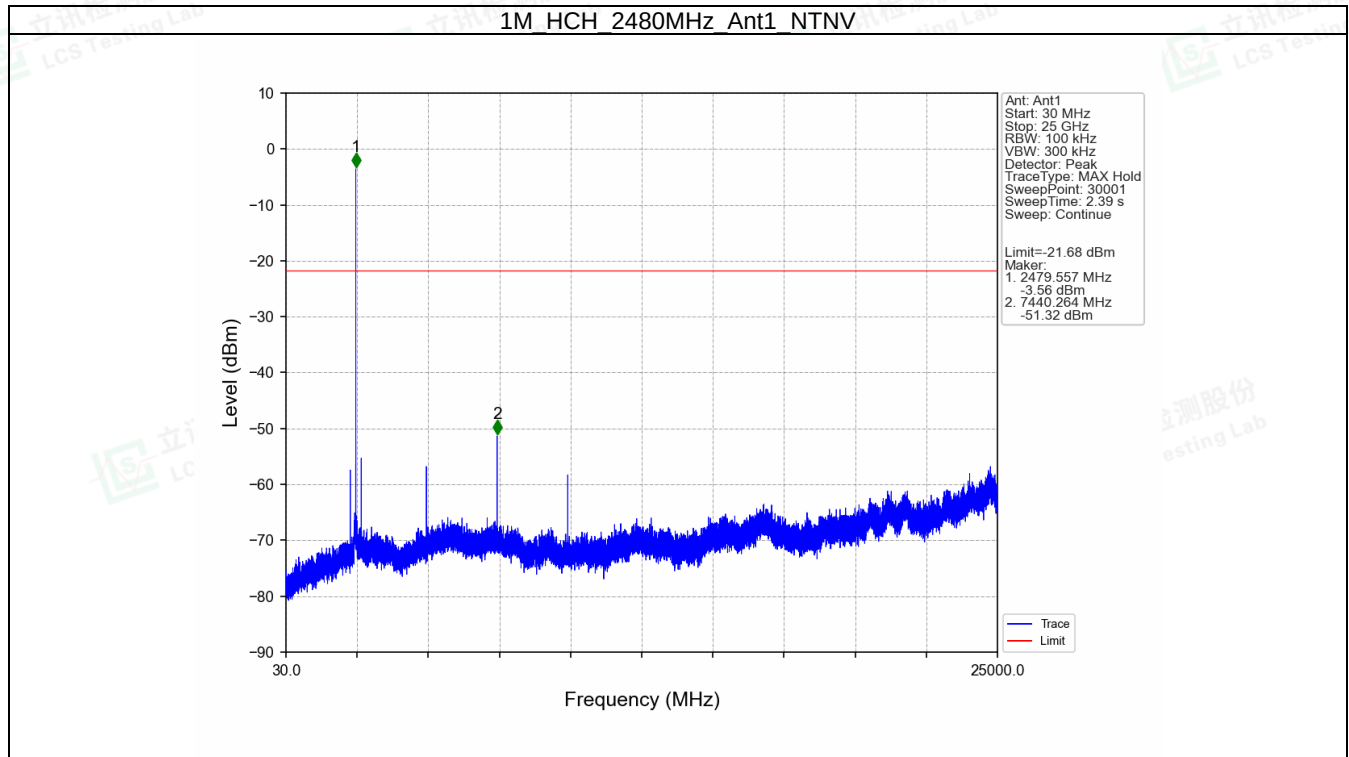


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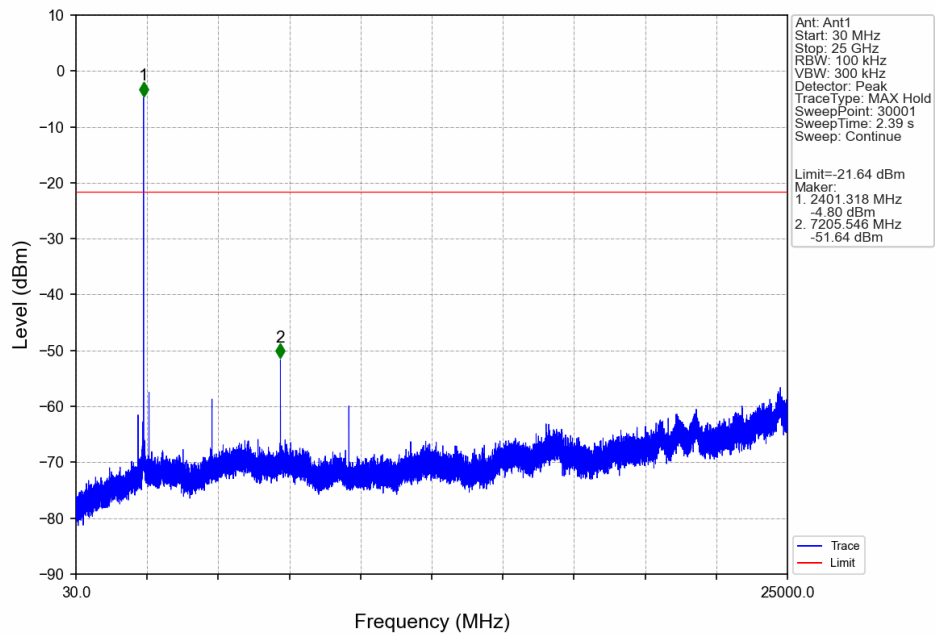
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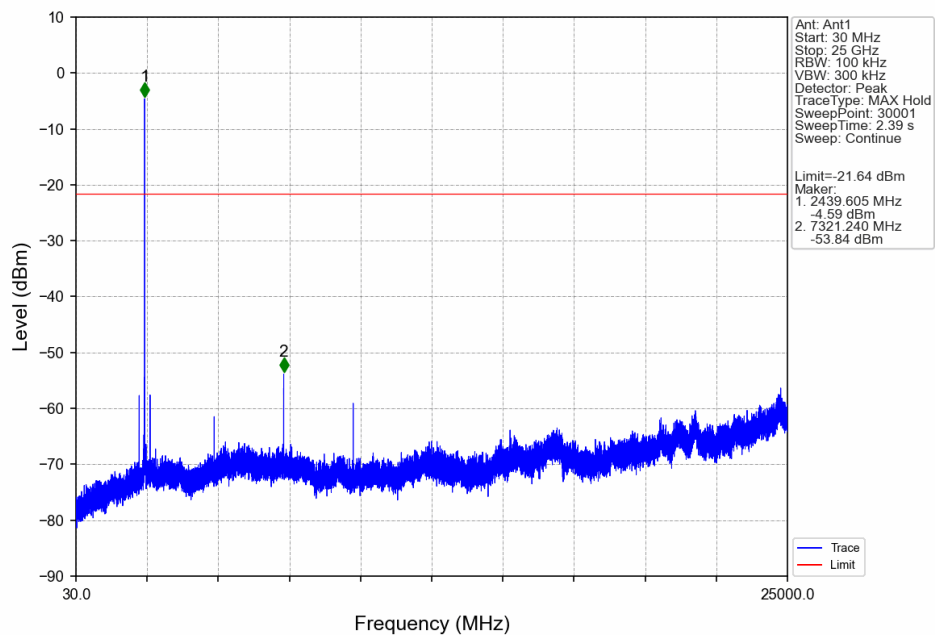
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2M LCH 2402MHz Ant1 NTV



2M MCH 2440MHz Ant1 NTV

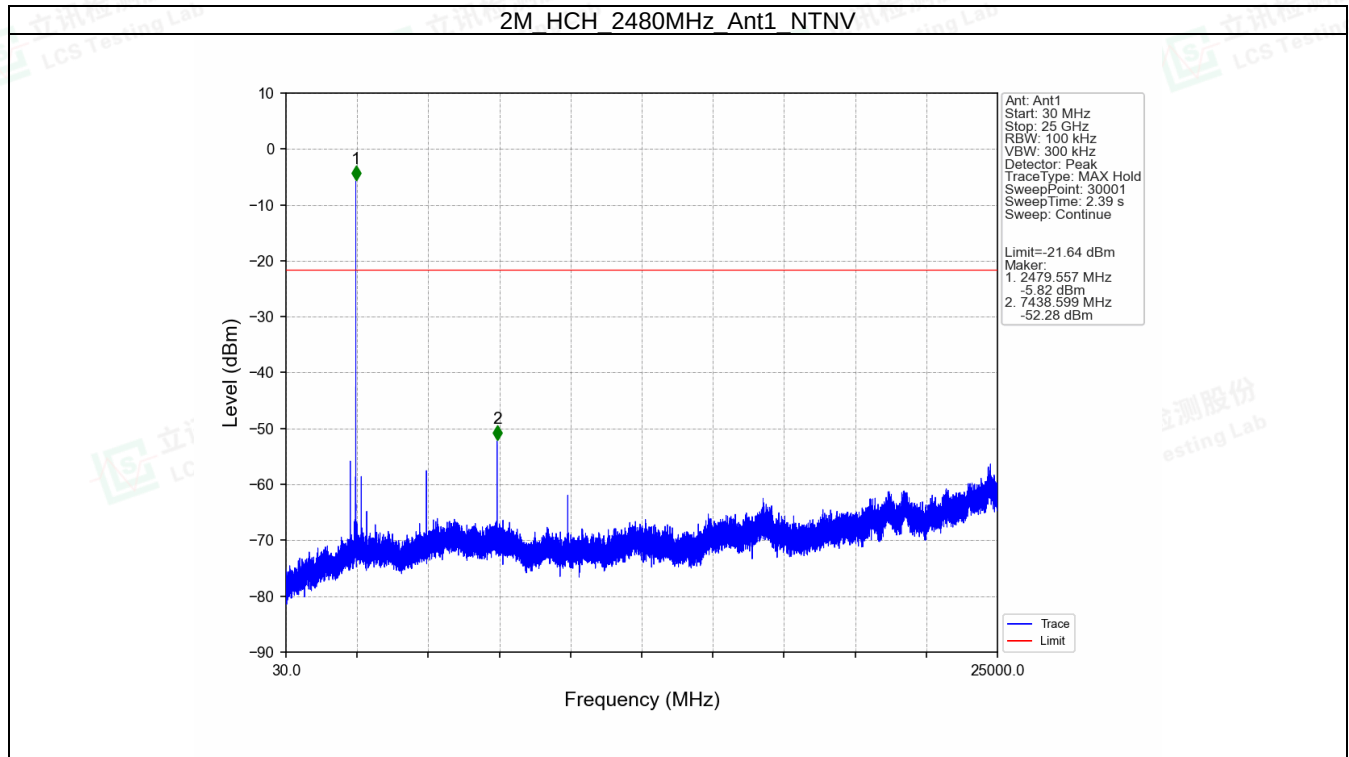


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A.6 Duty Cycle

6.1 Test Result

6.1.1 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	0.536	1.249	42.91	3.67	0.02
		2440	0.536	1.250	42.88	3.68	0.02
		2480	0.536	1.250	42.88	3.68	0.03
2M	SISO	2402	0.280	1.250	22.40	6.50	0.01
		2440	0.280	1.250	22.40	6.50	0.03
		2480	0.280	1.250	22.40	6.50	0.03



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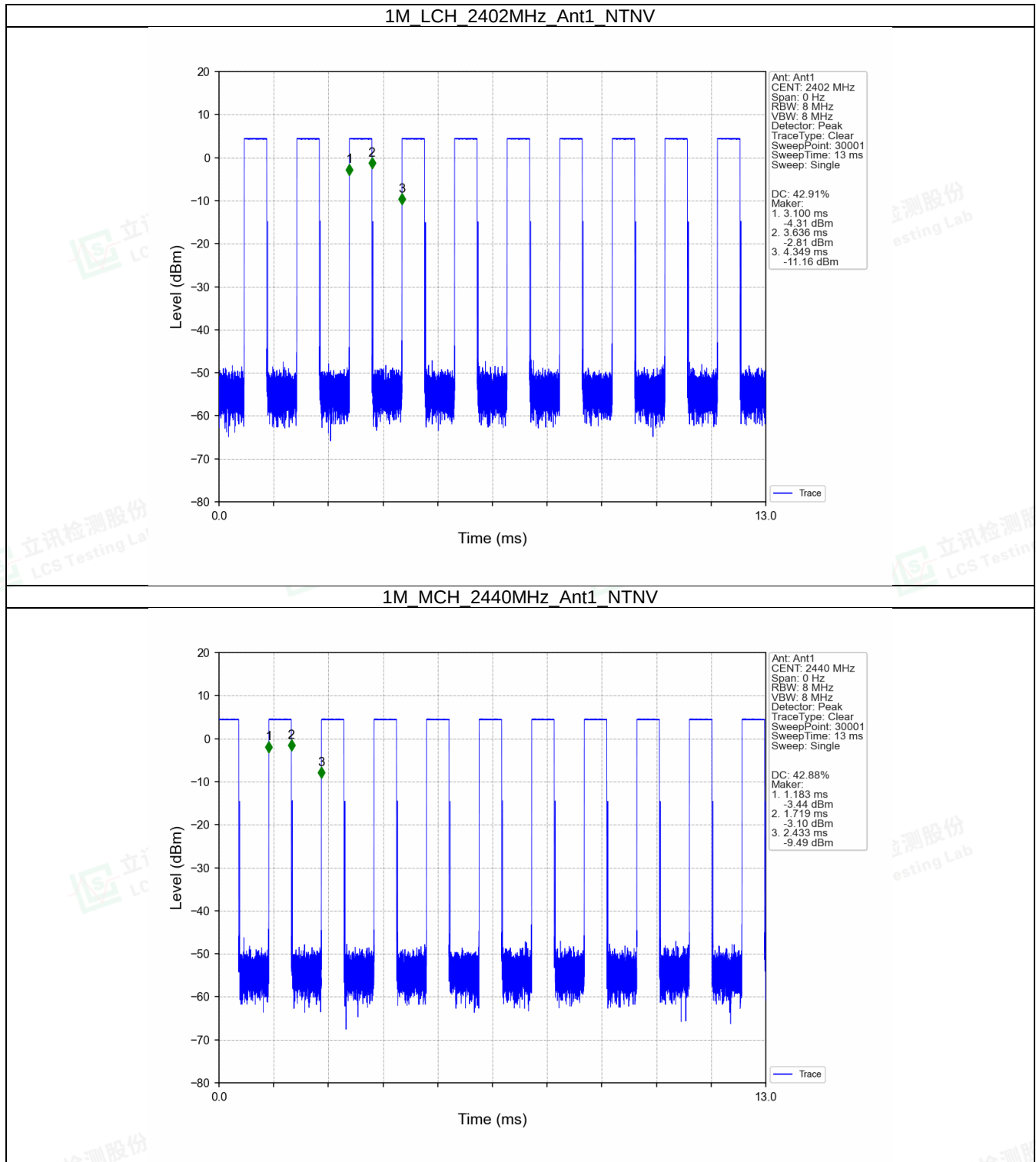
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6.2 Test Graph

6.2.1 Ant1



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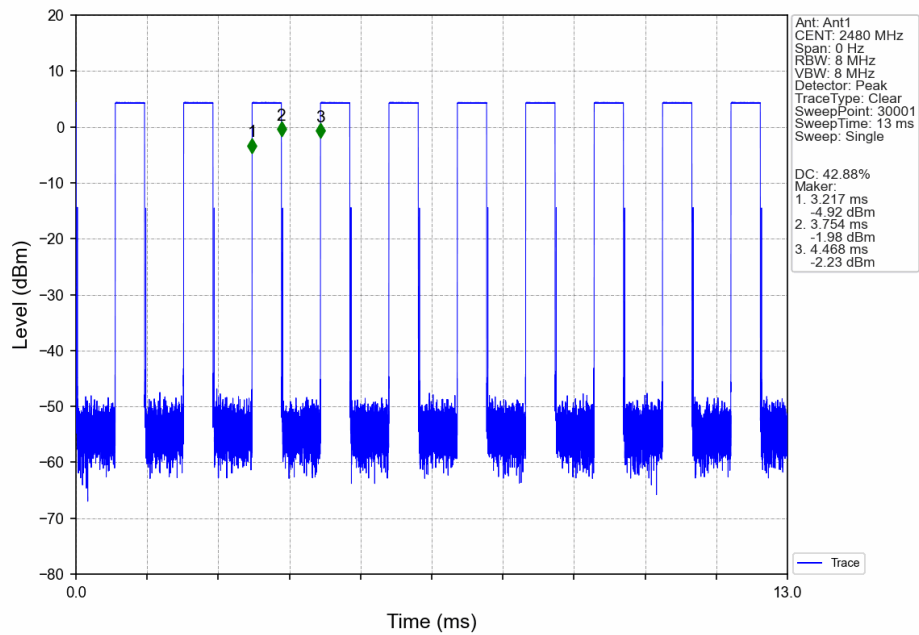
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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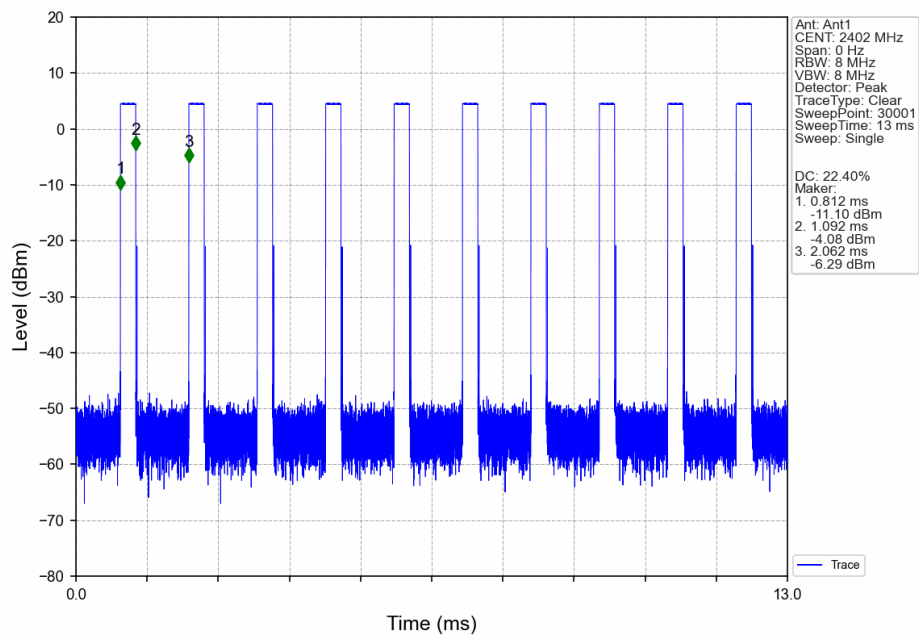
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1M HCH 2480MHz Ant1 NTV



2M LCH 2402MHz Ant1 NTV



Shenzhen LCS Compliance Testing Laboratory Ltd.

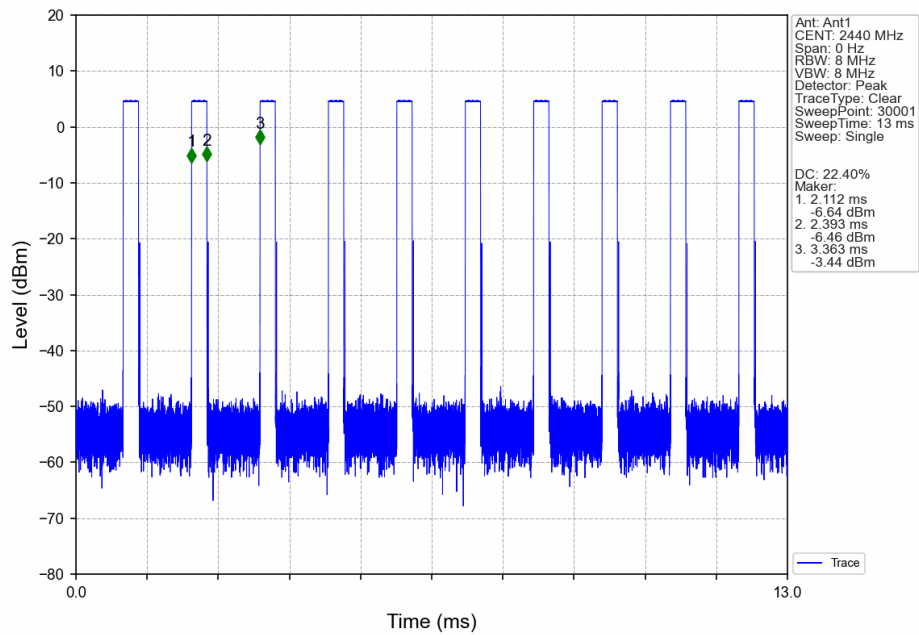
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

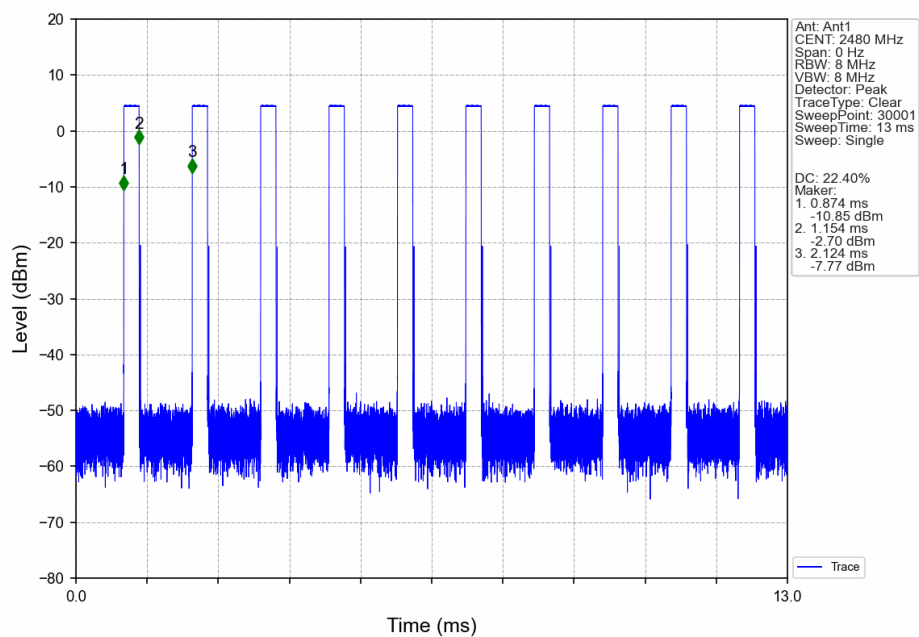
Scan code to check authenticity



2M MCH 2440MHz Ant1 NTV



2M HCH 2480MHz Ant1 NTV



Shenzhen LCS Compliance Testing Laboratory Ltd.

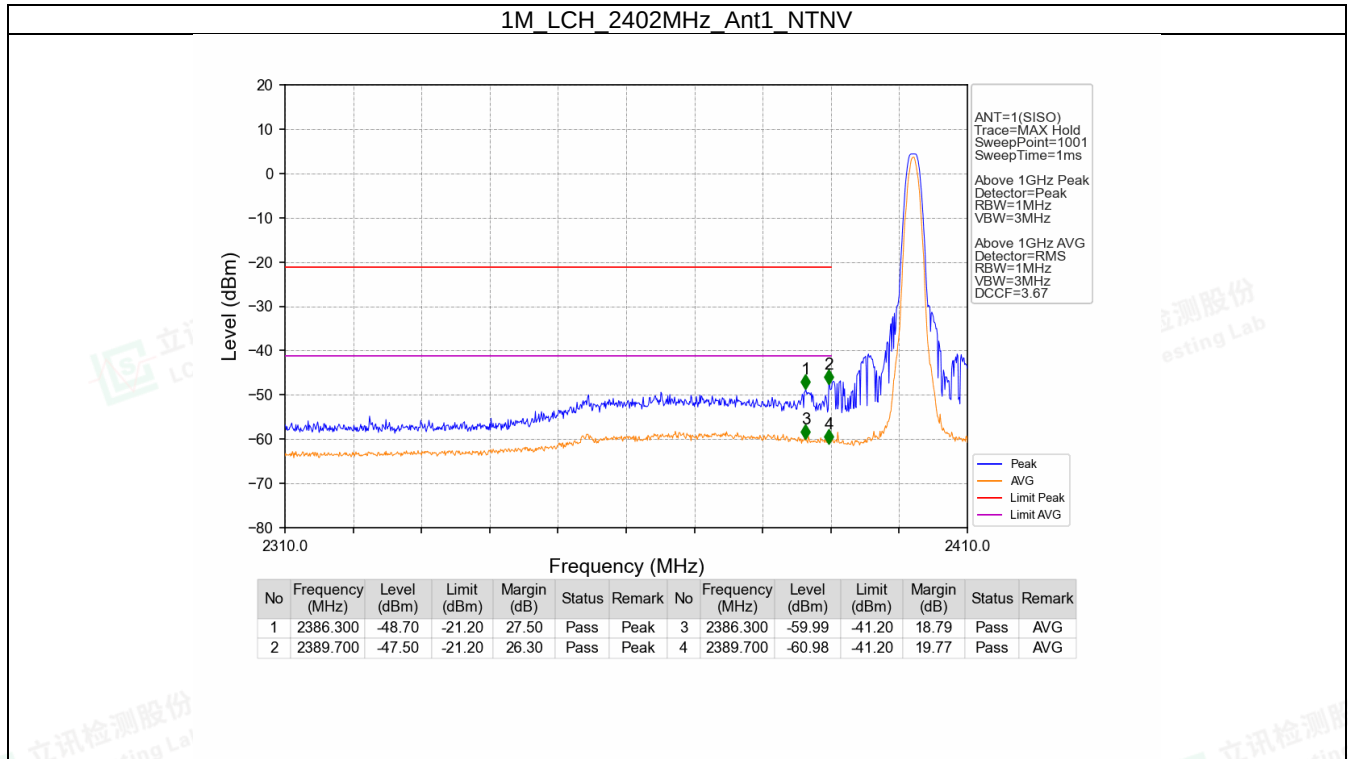
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A.7 Restrict Band



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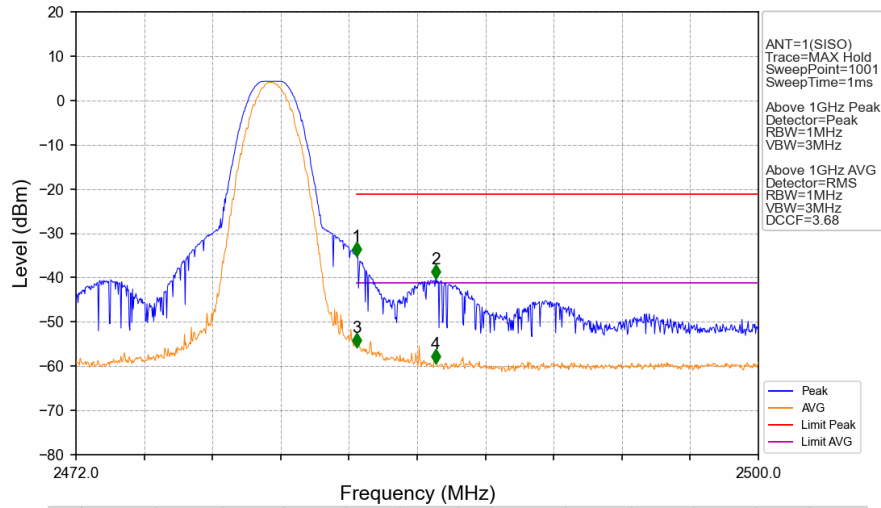
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1M HCH 2480MHz Ant1 NTVN



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	-35.06	-21.20	13.86	Pass	Peak	3	2483.508	-55.67	-41.20	14.47	Pass	AVG
2	2486.756	-40.32	-21.20	19.12	Pass	Peak	4	2486.756	-59.31	-41.20	18.11	Pass	AVG



Shenzhen LCS Compliance Testing Laboratory Ltd.

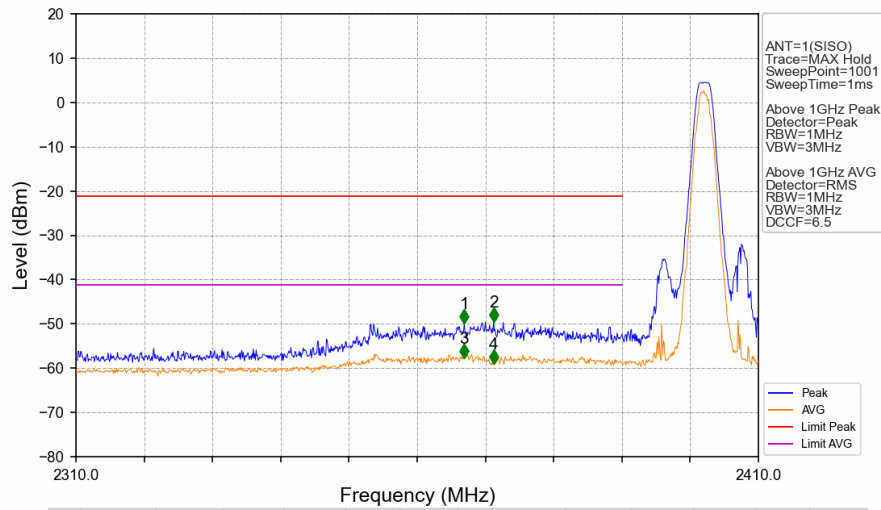
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2M LCH 2402MHz Ant1 NTV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2366.900	-49.86	-21.20	28.66	Pass	Peak	3	2366.900	-57.66	-41.20	16.45	Pass	AVG
2	2371.200	-49.51	-21.20	28.31	Pass	Peak	4	2371.200	-58.98	-41.20	17.78	Pass	AVG



Shenzhen LCS Compliance Testing Laboratory Ltd.

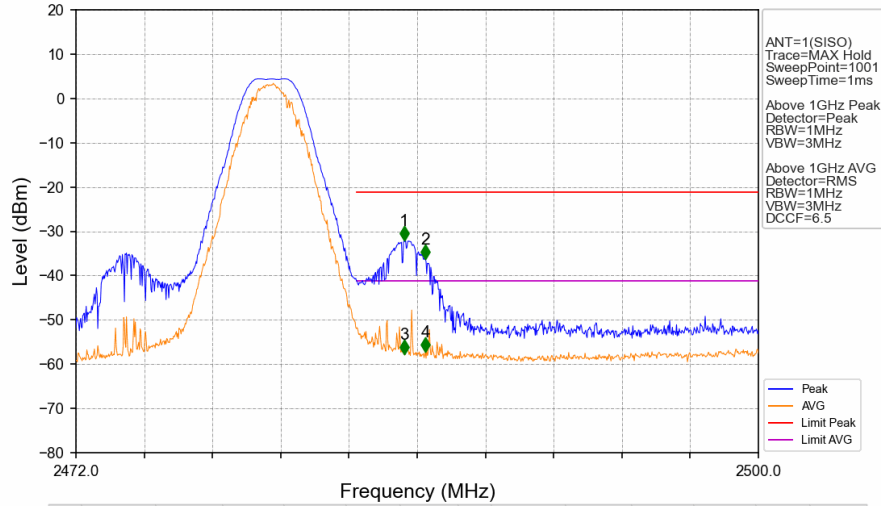
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2M HCH 2480MHz Ant1 NTV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2485.468	-31.96	-21.20	10.76	Pass	Peak	3	2485.468	-57.77	-41.20	16.57	Pass	AVG
2	2486.336	-36.20	-21.20	14.99	Pass	Peak	4	2486.336	-57.20	-41.20	16.00	Pass	AVG



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