



Appendix B

RF Test Data for BT LE (Conducted Measurement)

Product Name: PeriPage Shipping Label Printer

Test Model: ALD-PB400

Environmental Conditions

Temperature:	23.5 ° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Paddi Chen
Supervised by:	Nick Peng



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B.1 -6dB Bandwidth

1.1 Test Result

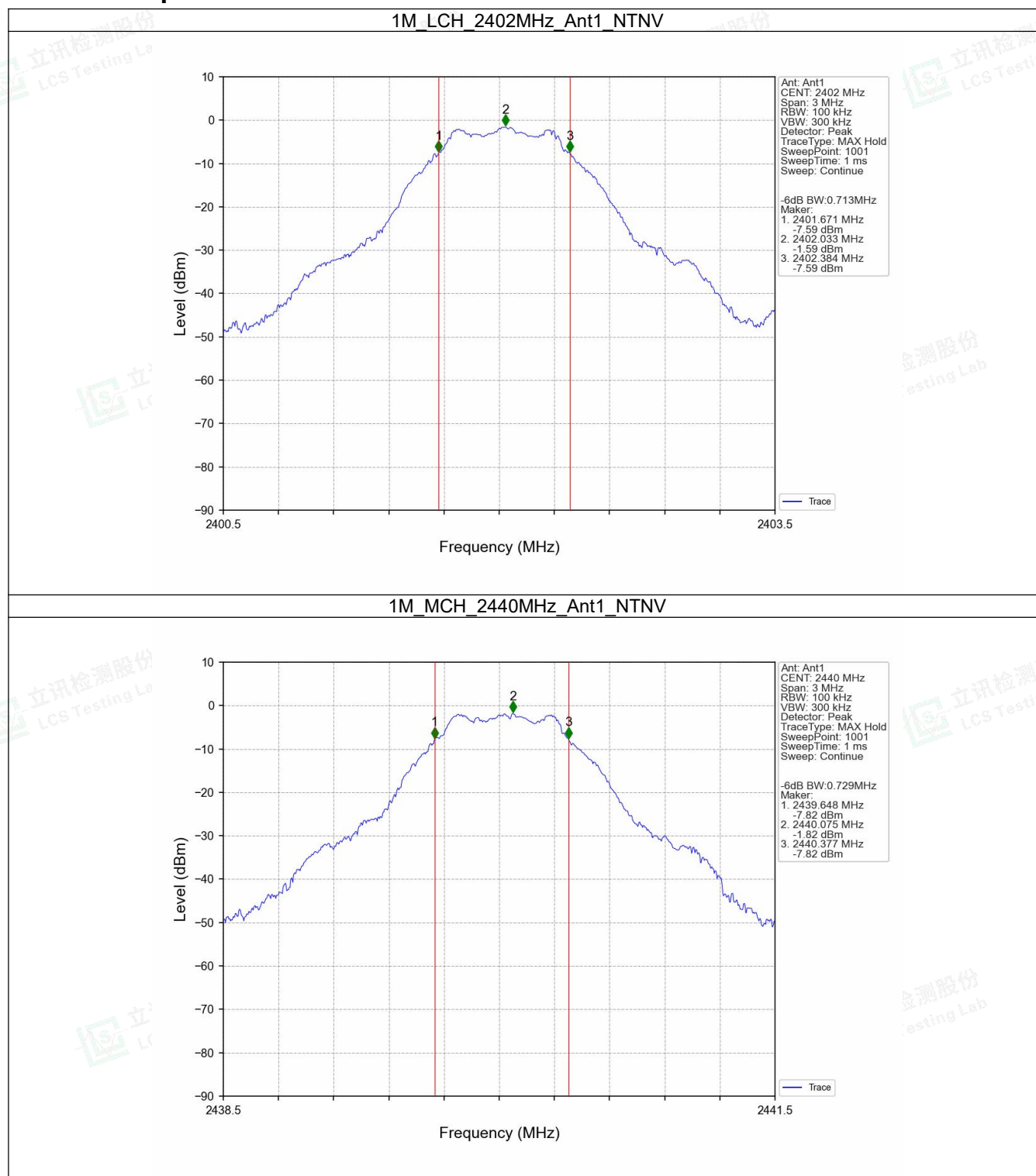
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.713	≥ 0.5	Pass
		2440	1	0.729	≥ 0.5	Pass
		2480	1	0.714	≥ 0.5	Pass



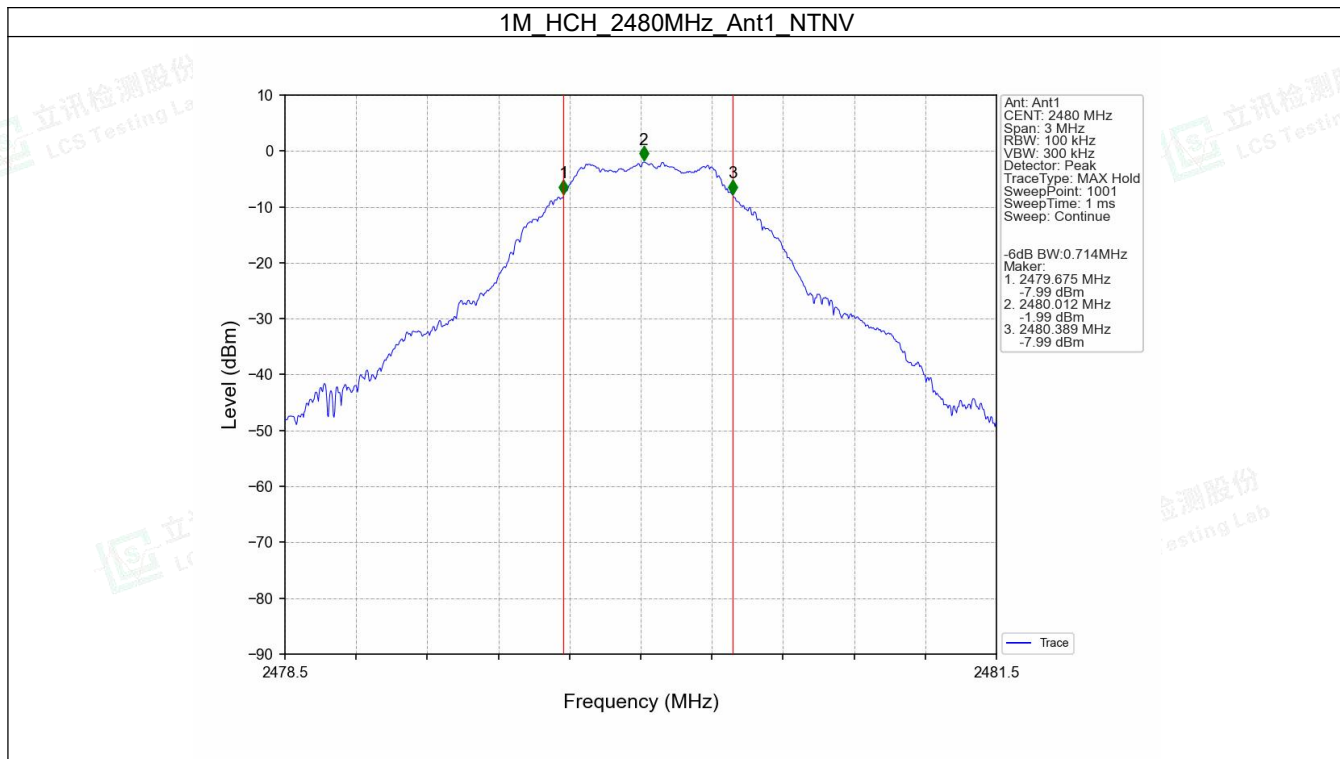
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1.2 Test Graph



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B.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	-1.32	<=30	Pass
		2440	-1.24	<=30	Pass
		2480	-1.46	<=30	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

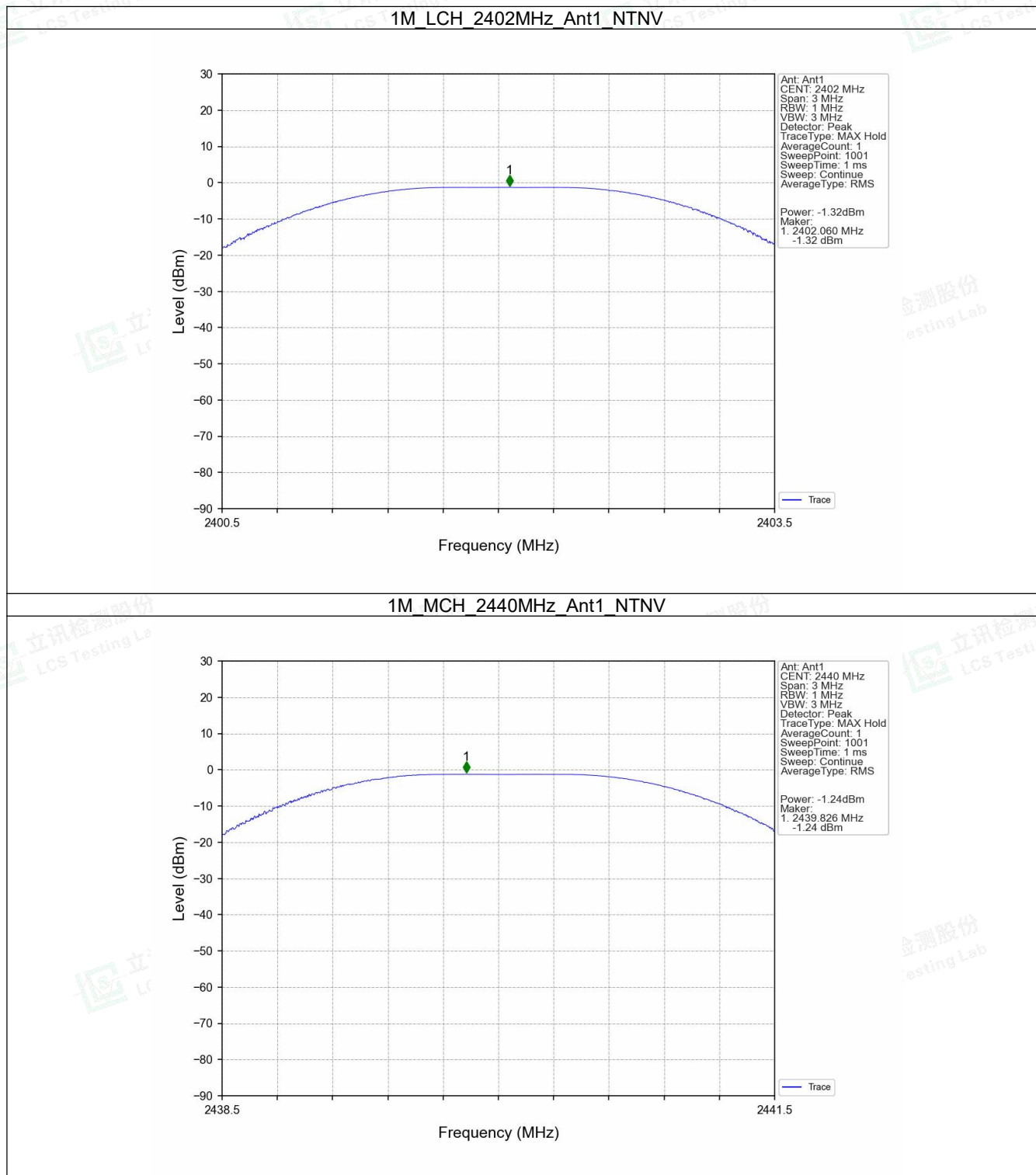


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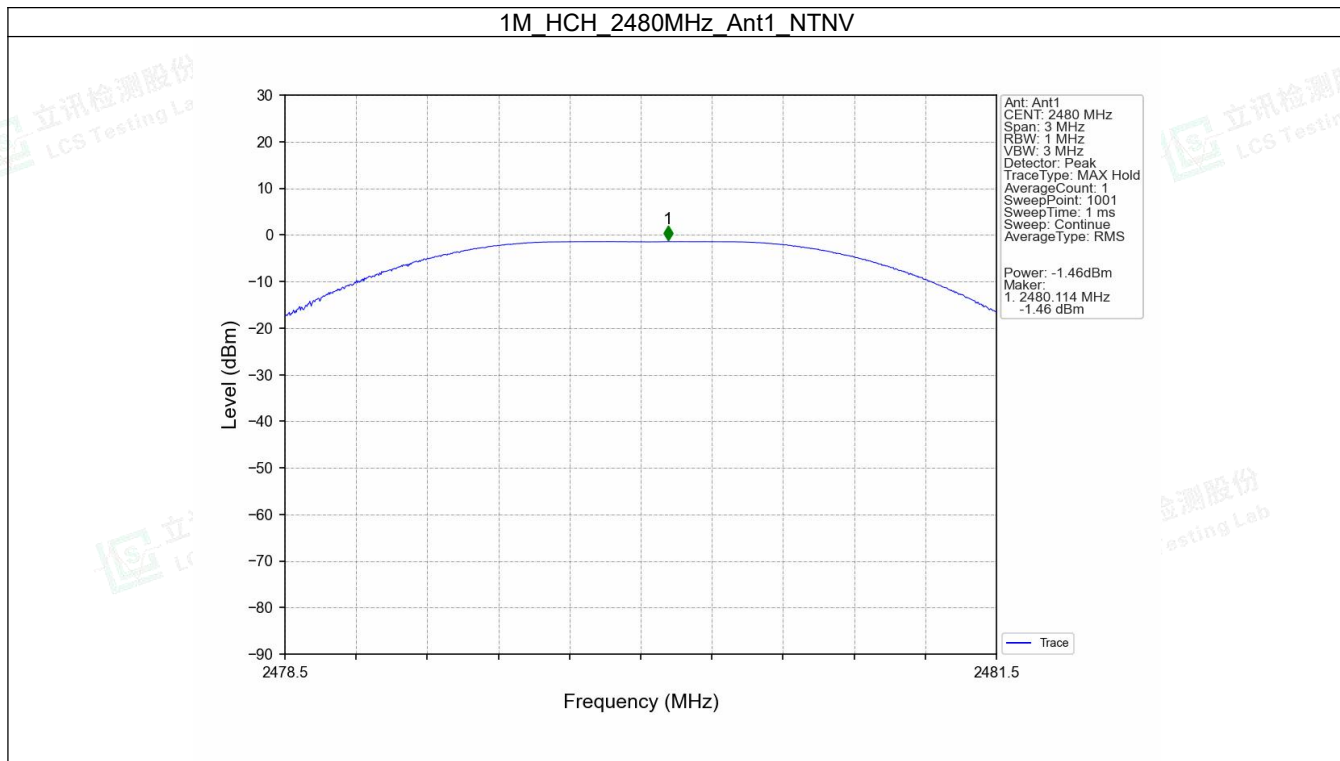


2.2 Test Graph

2.2.1 Power



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B.3 Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-17.22	<=8	Pass
		2440	-17.11	<=8	Pass
		2480	-15.81	<=8	Pass

Note1: Antenna Gain: Ant1: 0.00dBi;

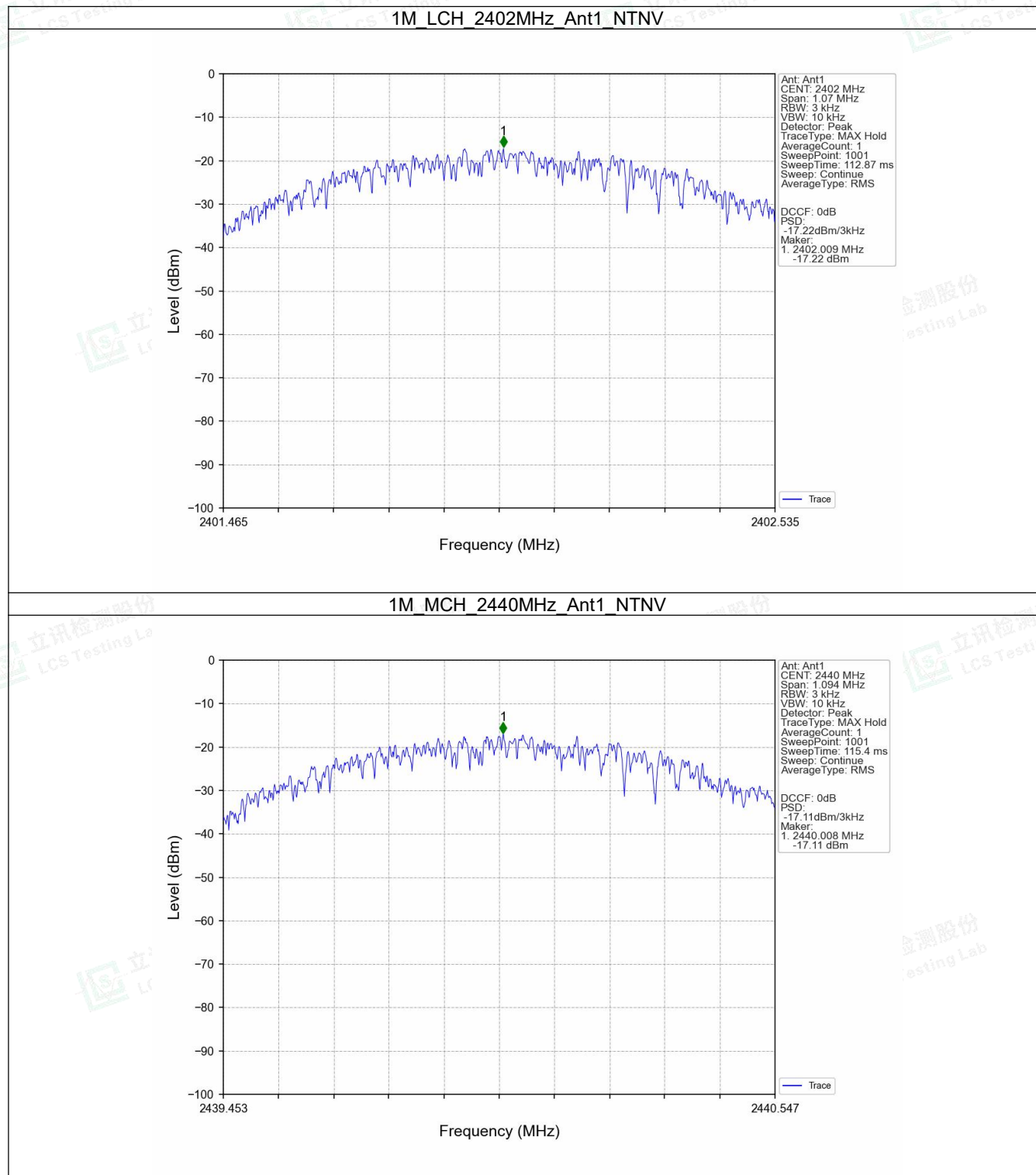


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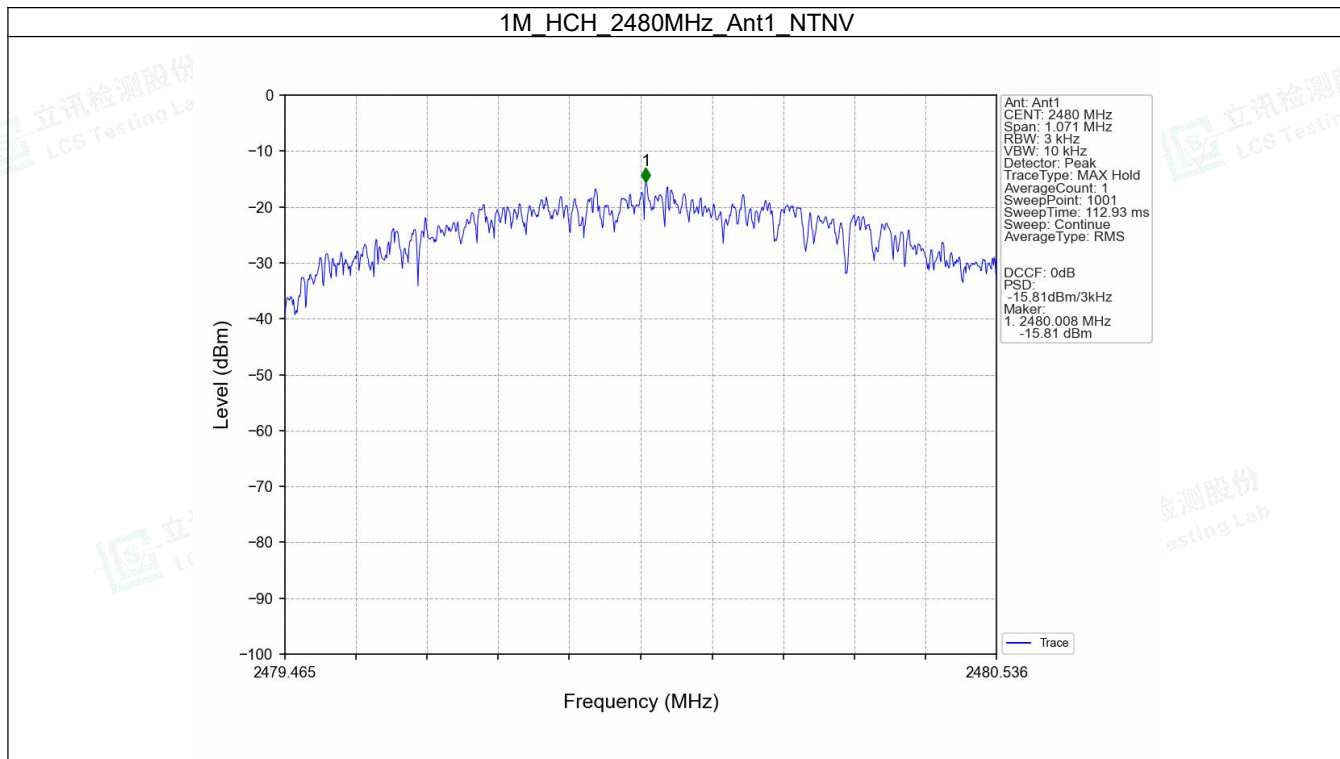


3.2 Test Graph

3.2.1 PSD



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B.4 Band Edge

4.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-1.60	-21.60	Pass
		2440	1	-1.60	-21.60	Pass
		2480	1	-1.60	-21.60	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.						

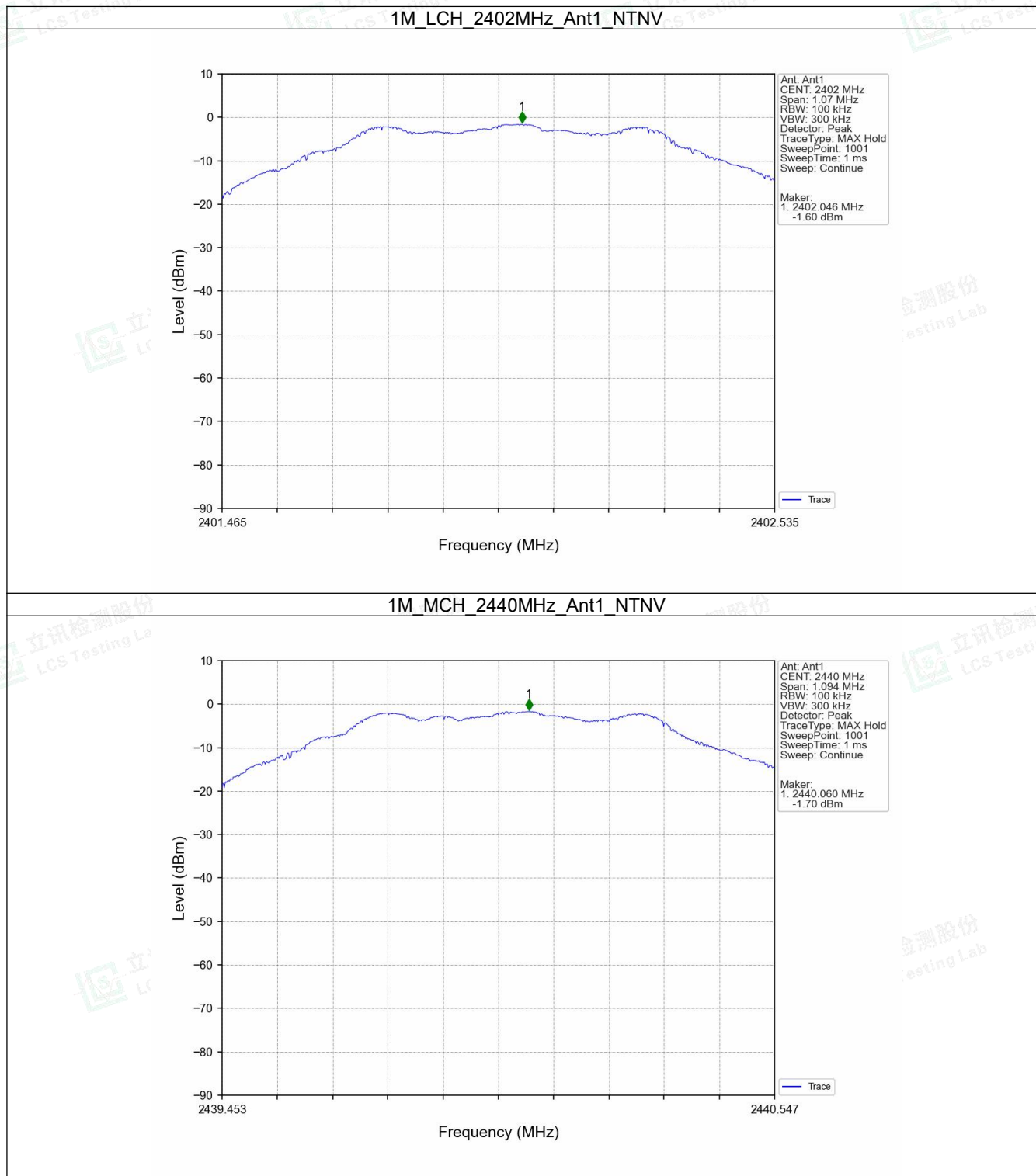


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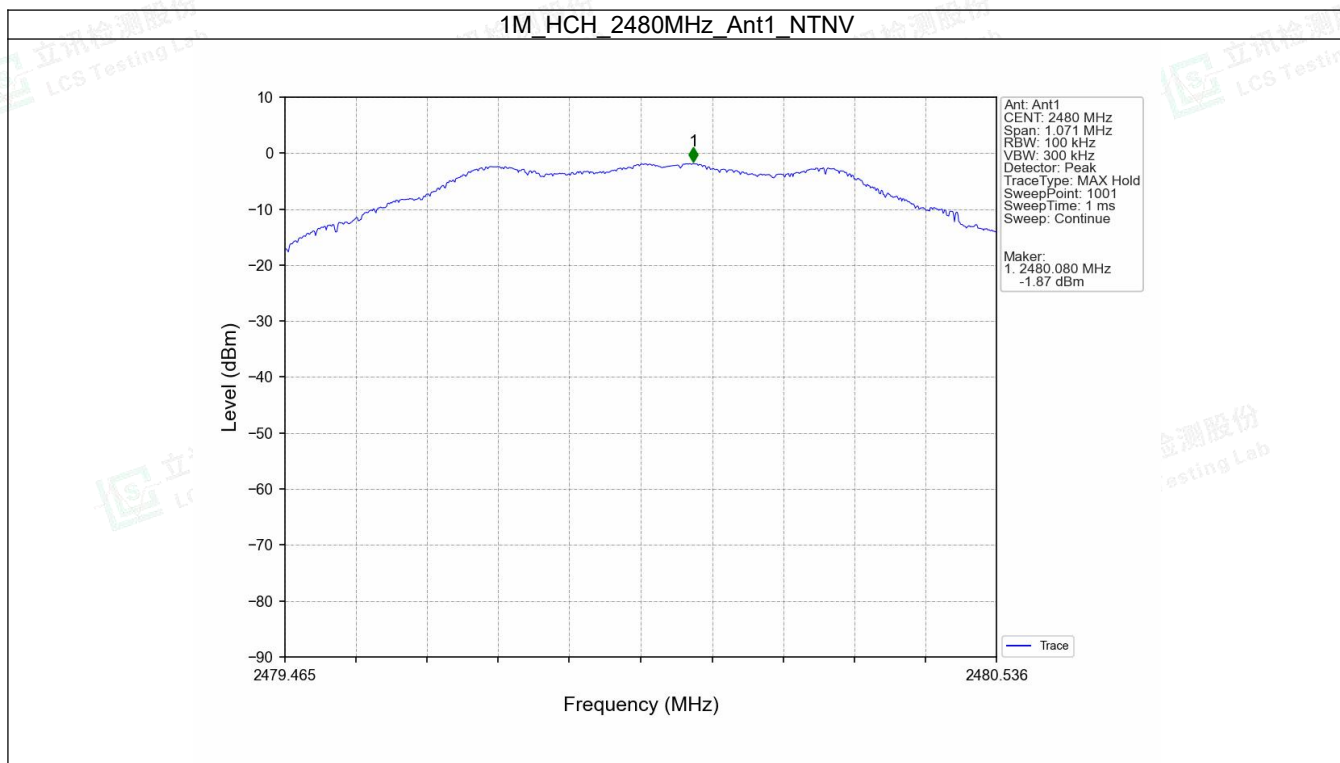


4.2 Test Graph

4.2.1 Ref

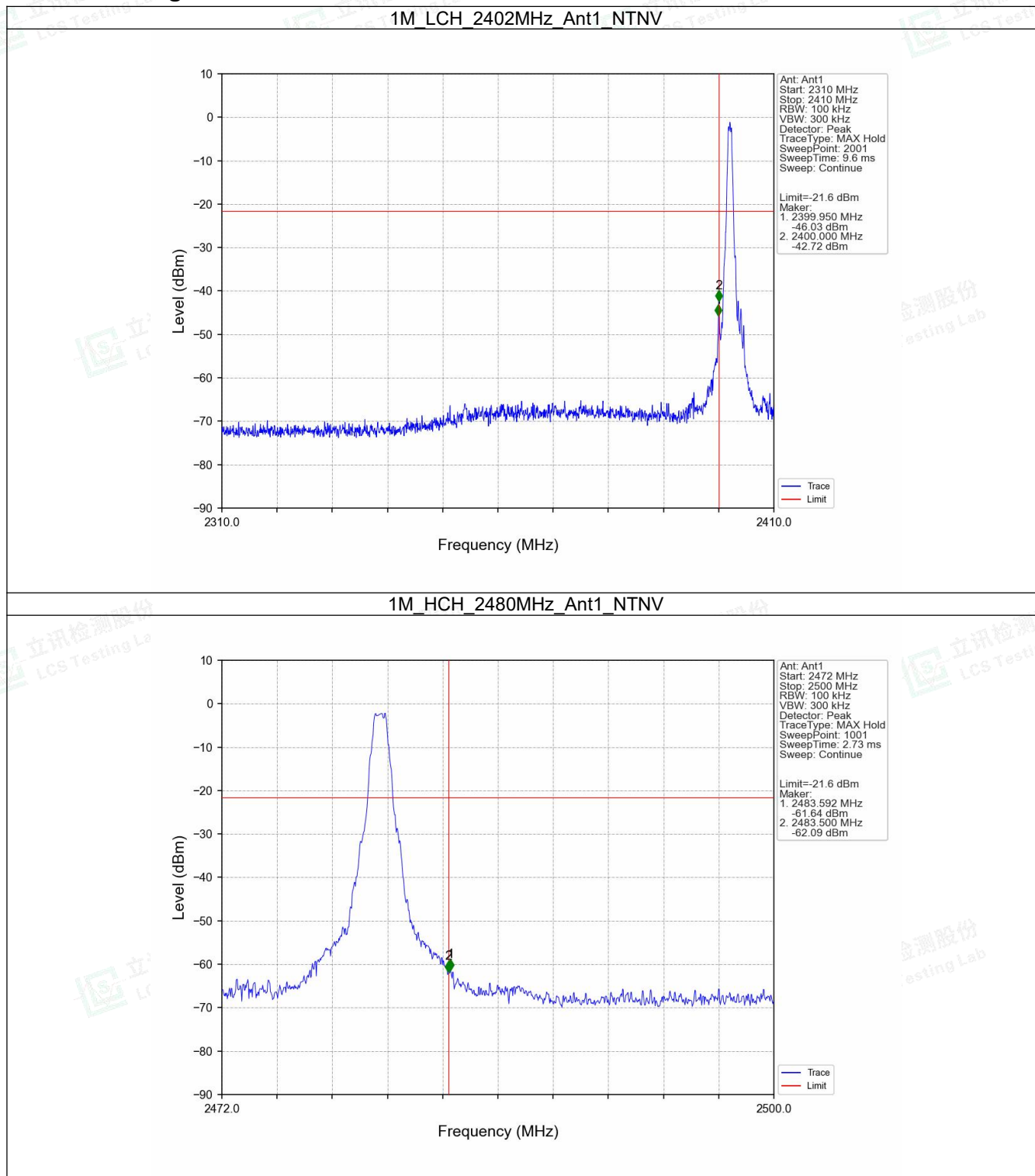


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4.2.2 Band Edge



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B.5 Conducted RF Spurious Emission

5.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-1.60
		2440	1	-1.70
		2480	1	-1.87

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.

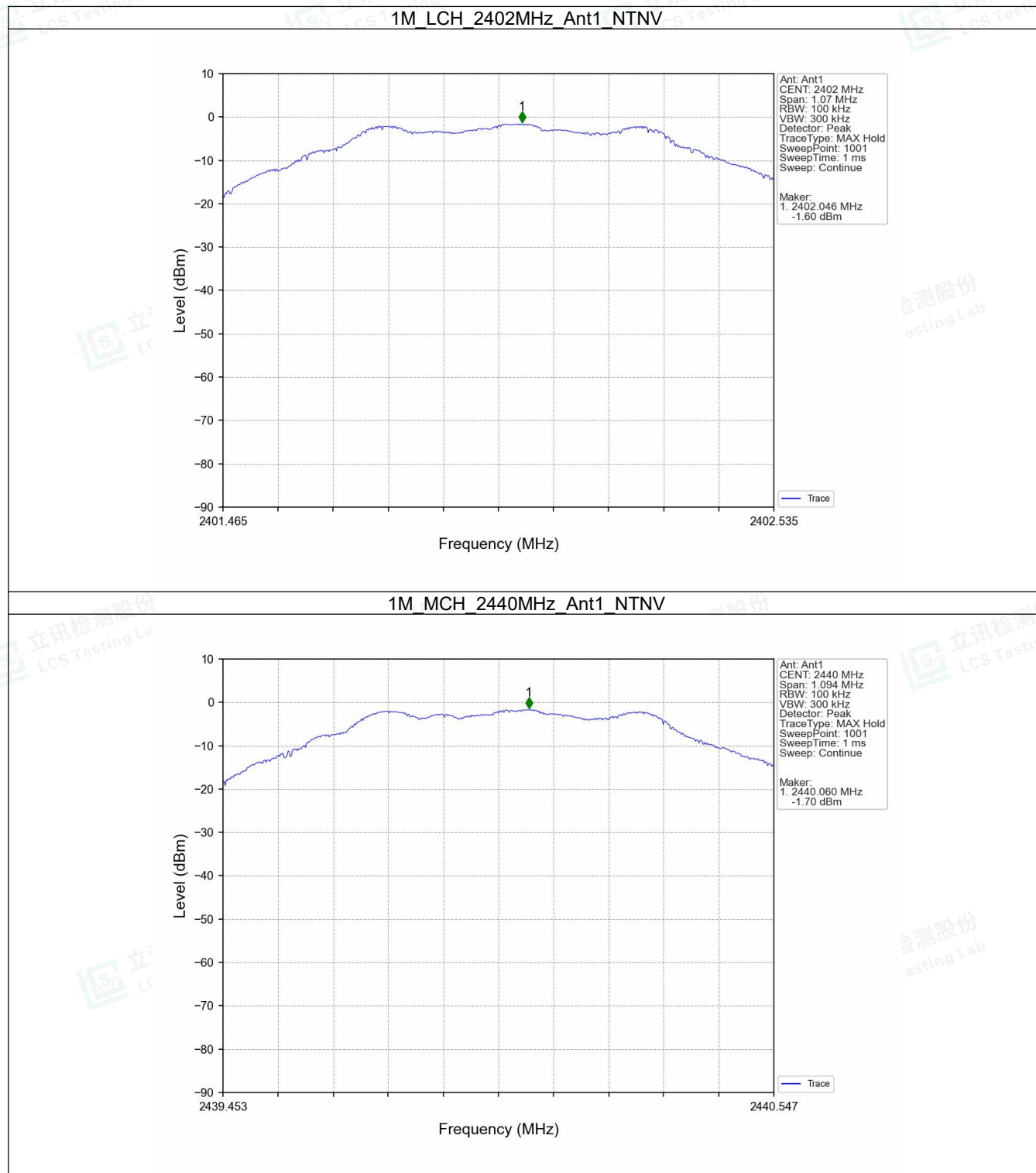


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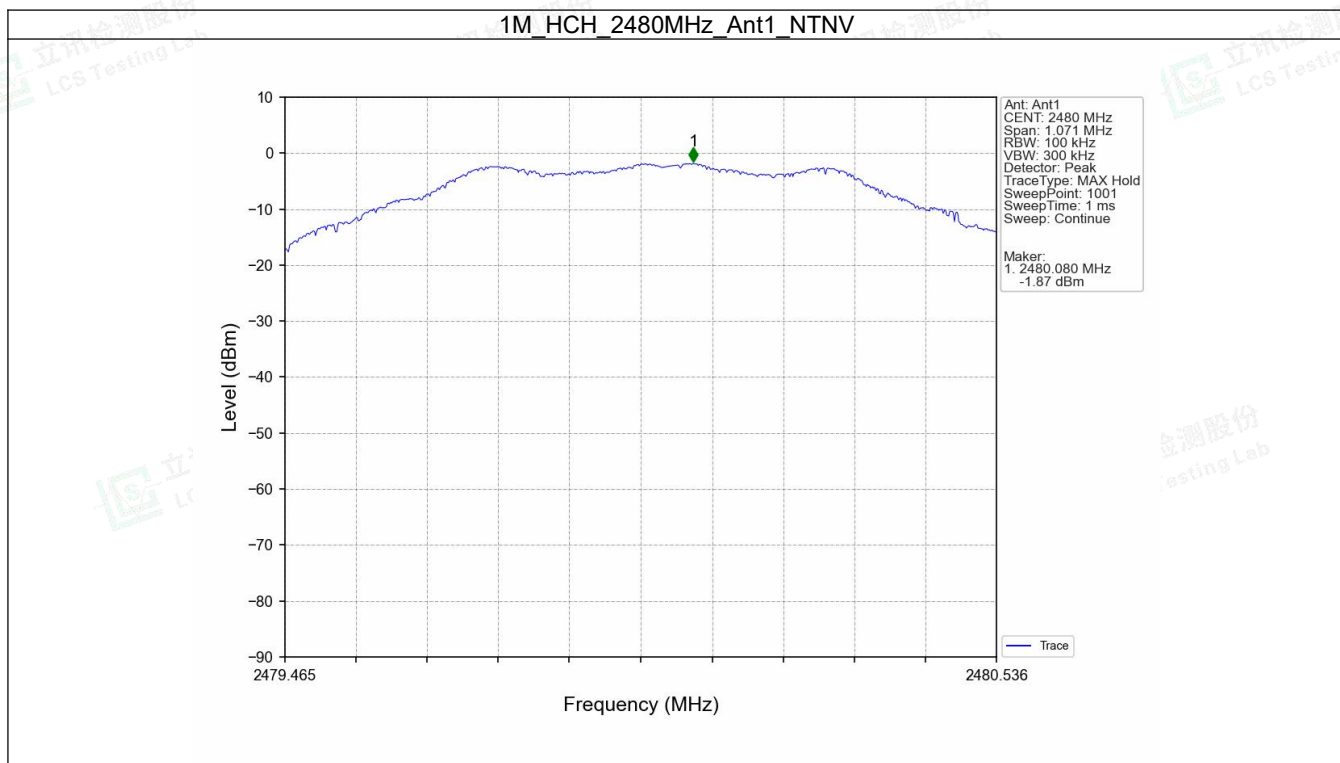


5.2 Test Graph

5.2.1 Ref

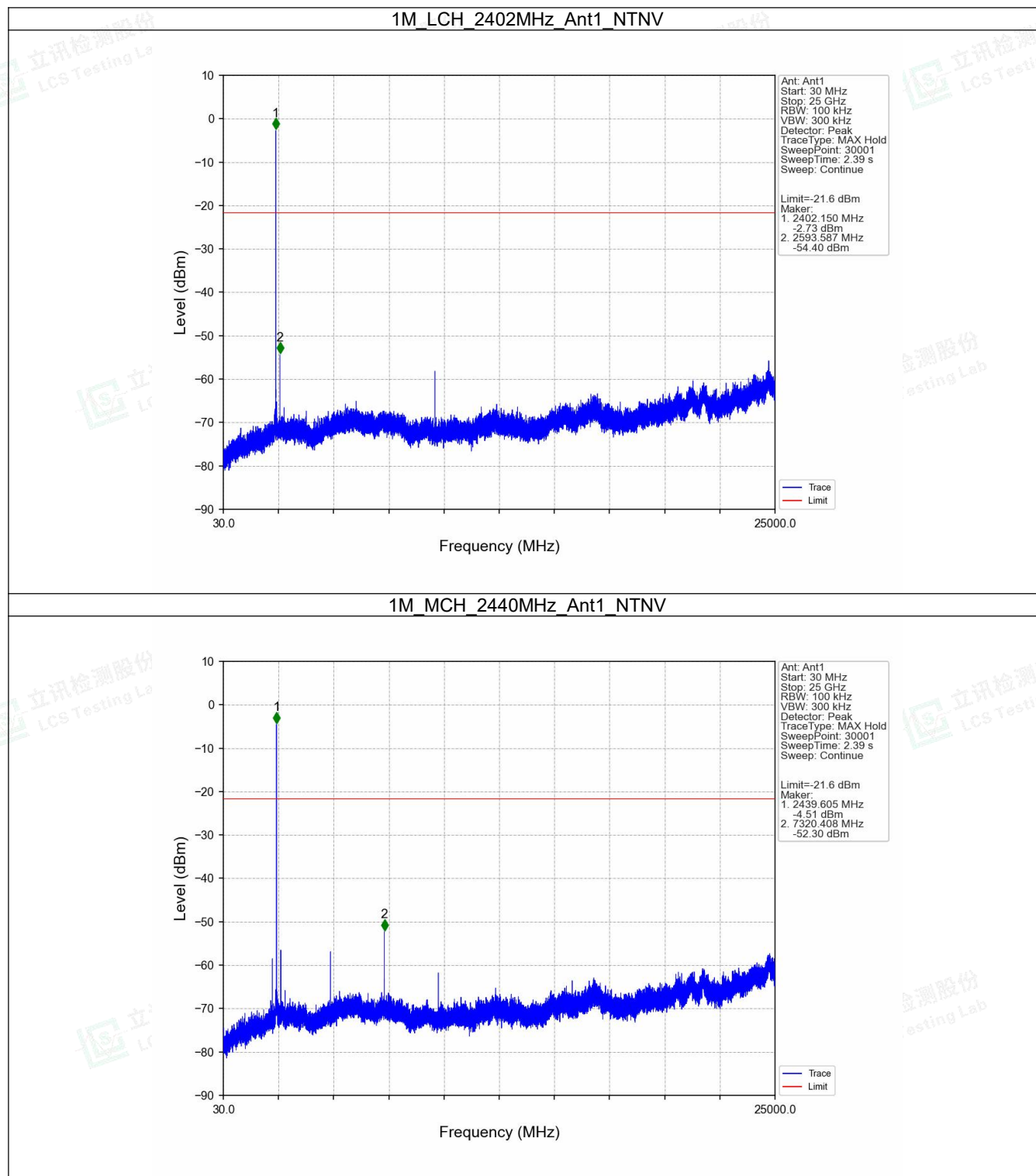


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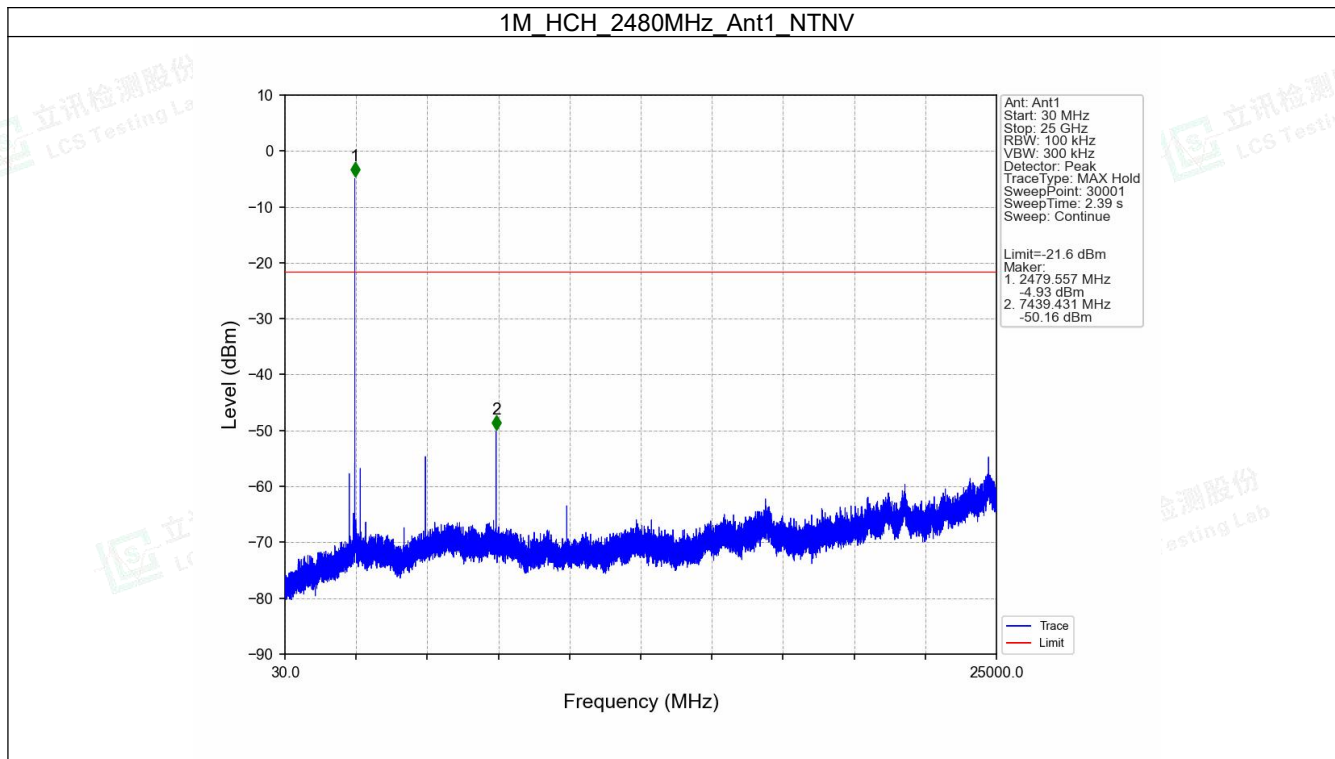




5.2.2 CSE



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B.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	1.250	42.88	3.68	0.01
		2440	0.537	1.251	42.93	3.67	0.03
		2480	0.536	1.250	42.88	3.68	0.03

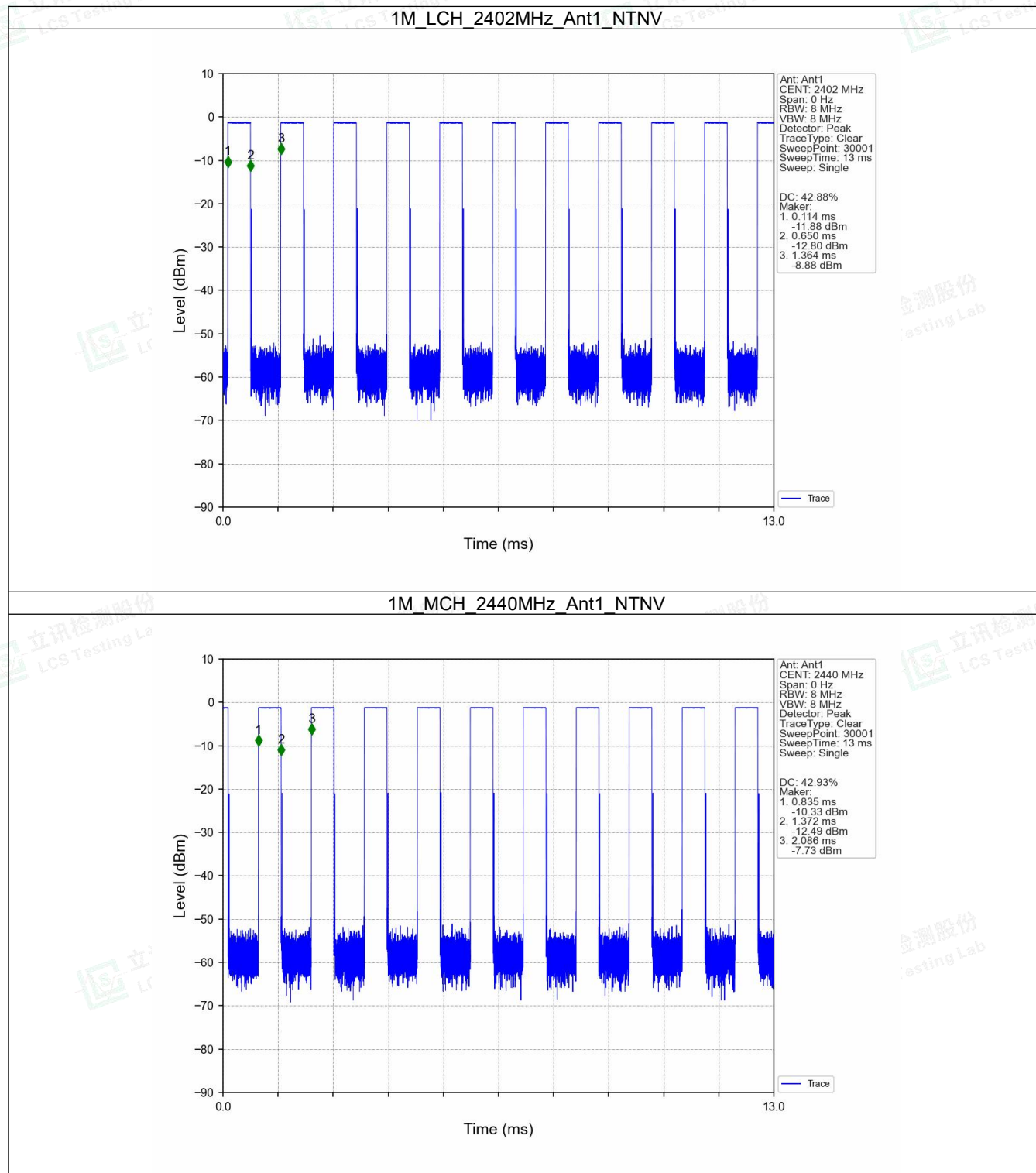


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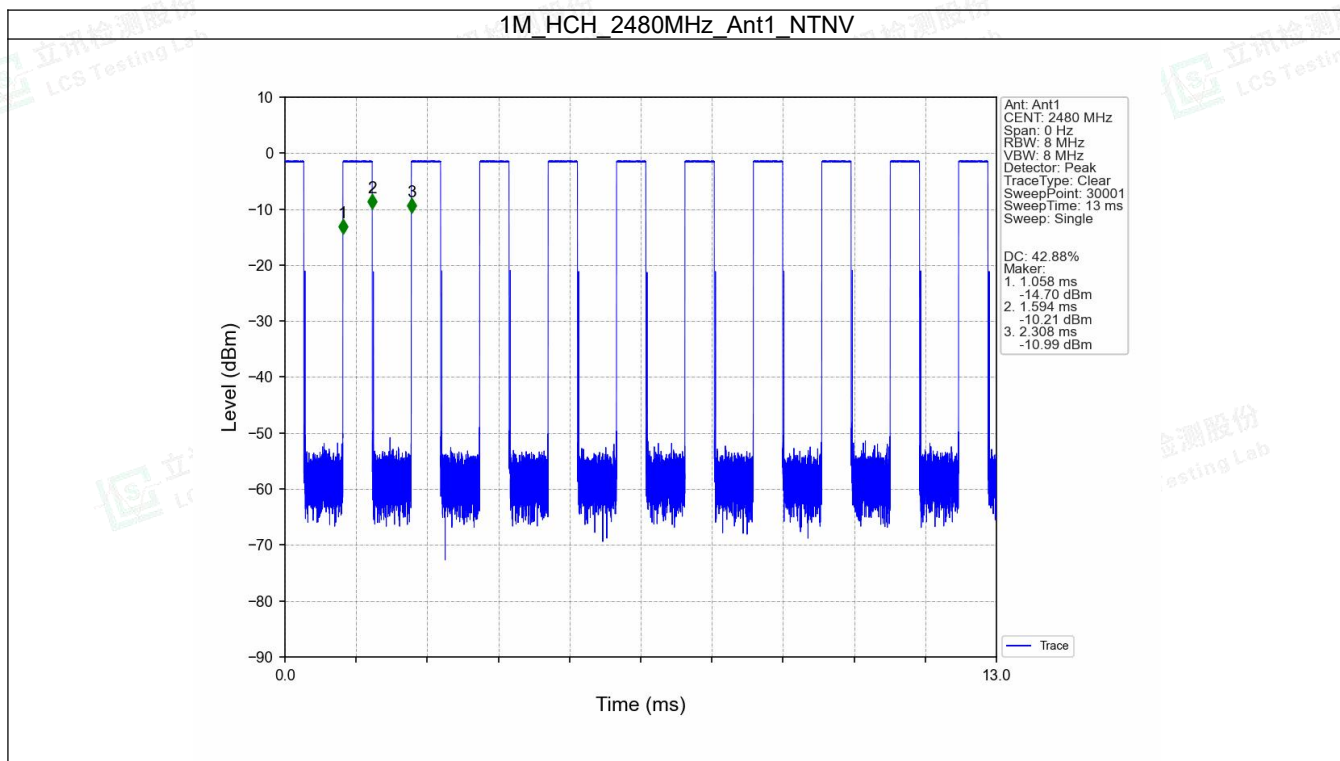


6.2 Test Graph

6.2.1 Ant1



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B.7 Restricted Band

7.1 Test Result

7.1.1 RSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
1M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass

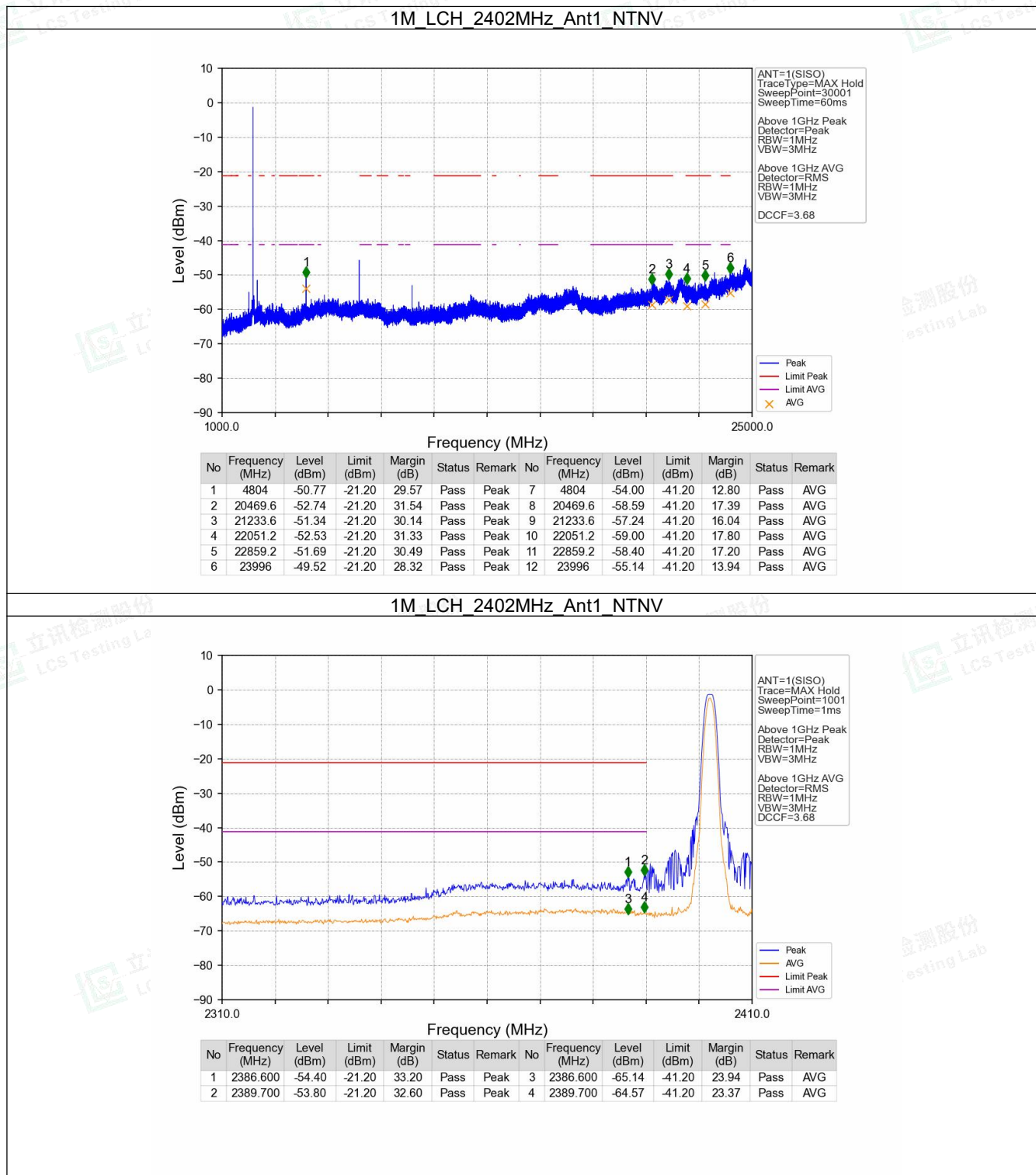


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7.2 Test Graph

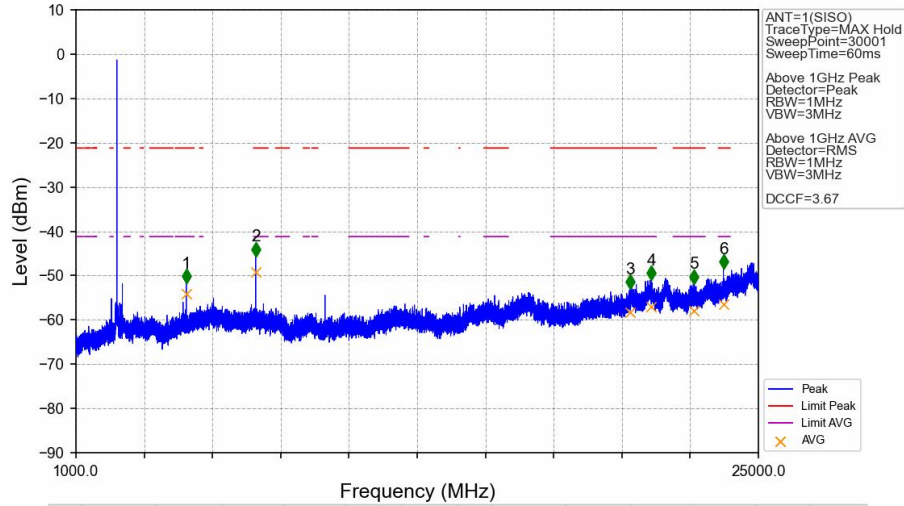
7.2.1 RSE



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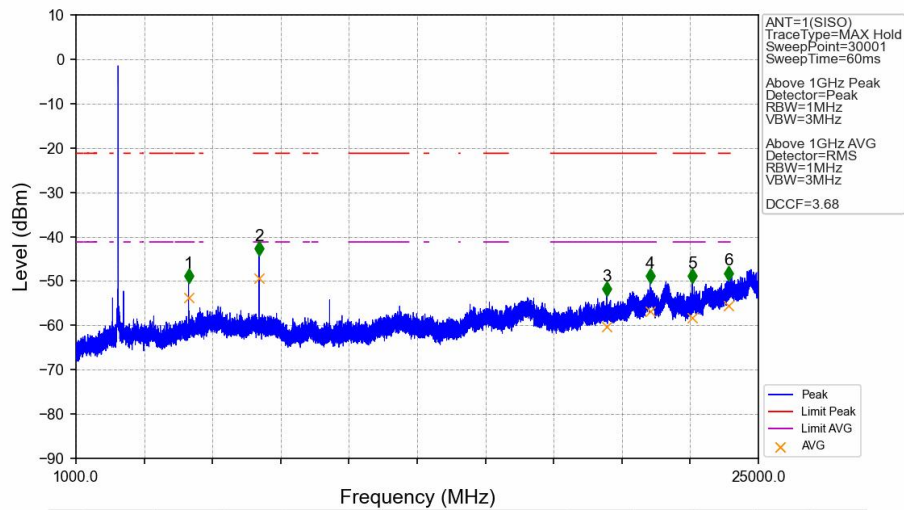


1M_MCH_2440MHz_Ant1_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880.8	-51.61	-21.20	30.41	Pass	Peak	7	4880.8	-54.17	-41.20	12.97	Pass	AVG
2	7320	-45.59	-21.20	24.39	Pass	Peak	8	7320	-49.12	-41.20	7.92	Pass	AVG
3	20498.4	-52.93	-21.20	31.73	Pass	Peak	9	20498.4	-58.23	-41.20	17.03	Pass	AVG
4	21229.6	-50.99	-21.20	29.79	Pass	Peak	10	21229.6	-57.10	-41.20	15.90	Pass	AVG
5	22740.8	-51.79	-21.20	30.59	Pass	Peak	11	22740.8	-57.98	-41.20	16.78	Pass	AVG
6	23768	-48.45	-21.20	27.25	Pass	Peak	12	23768	-56.42	-41.20	15.22	Pass	AVG

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	4960	-50.49	-21.20	29.29	Pass	Peak	7	4960	-53.77	-41.20	12.57	Pass	AVG
2	7440	-44.28	-21.20	23.09	Pass	Peak	8	7440	-49.44	-41.20	8.24	Pass	AVG
3	19668	-53.35	-21.20	32.15	Pass	Peak	9	19668	-60.36	-41.20	19.16	Pass	AVG
4	21189.6	-50.46	-21.20	29.26	Pass	Peak	10	21189.6	-56.84	-41.20	15.64	Pass	AVG
5	22672.8	-50.47	-21.20	29.27	Pass	Peak	11	22672.8	-58.26	-41.20	17.06	Pass	AVG
6	23948.8	-49.78	-21.20	28.58	Pass	Peak	12	23948.8	-55.55	-41.20	14.35	Pass	AVG



