



Appendix D

RF Test Data for BT LE (Conducted Measurement)

Product Name: Bluetooth Base Station

Test Model: L101

Environmental Conditions

Temperature:	23.8°C
Relative Humidity:	52.5%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Luo
Supervised by:	Nick Peng



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D.1 6dB Bandwidth

1.1 Test Result

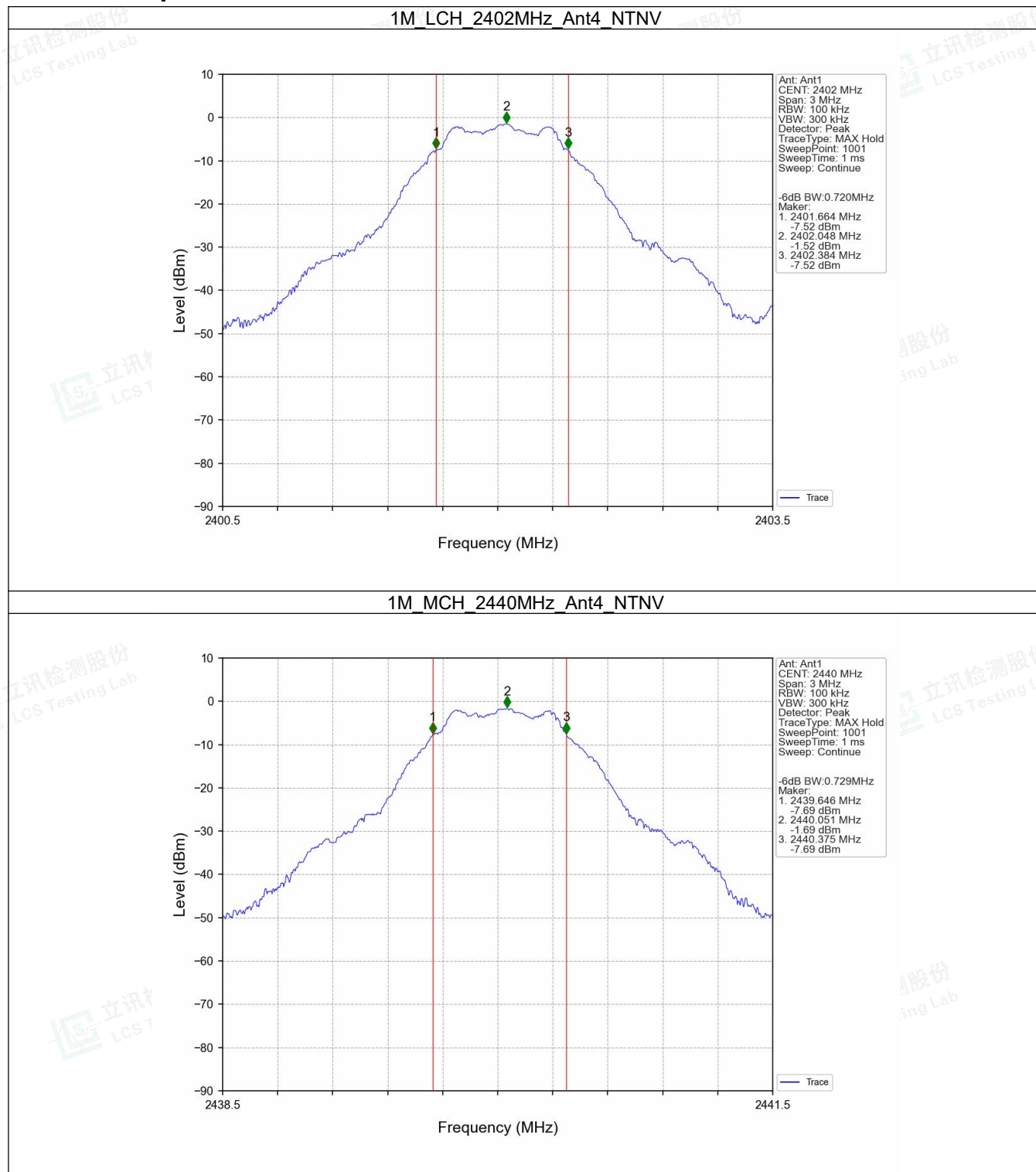
Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	4	0.720	≥ 0.5	Pass
		2440	4	0.729	≥ 0.5	Pass
		2480	4	0.706	≥ 0.5	Pass
2M	SISO	2402	4	1.158	≥ 0.5	Pass
		2440	4	1.254	≥ 0.5	Pass
		2480	4	1.256	≥ 0.5	Pass



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1.2 Test Graph



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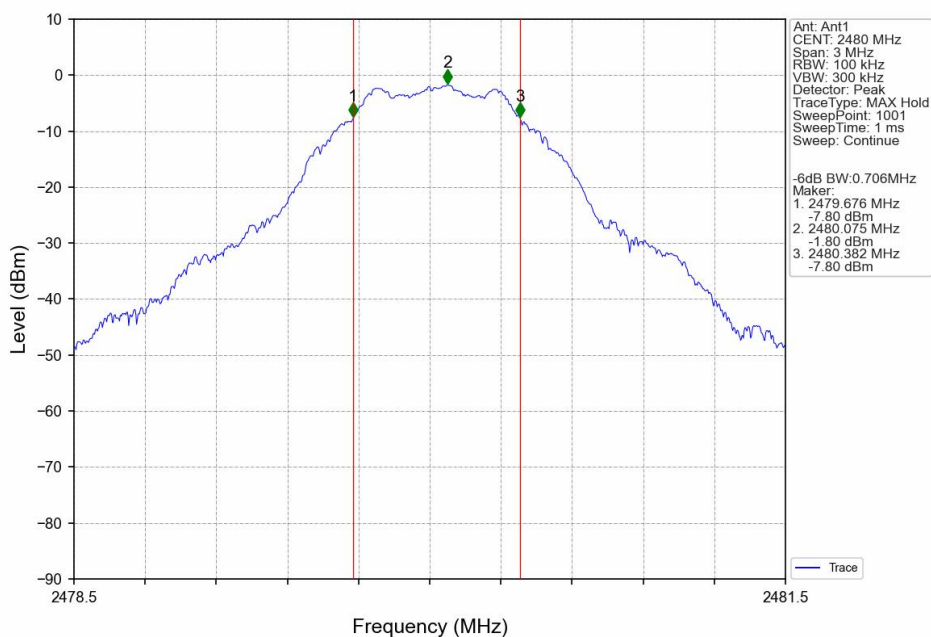
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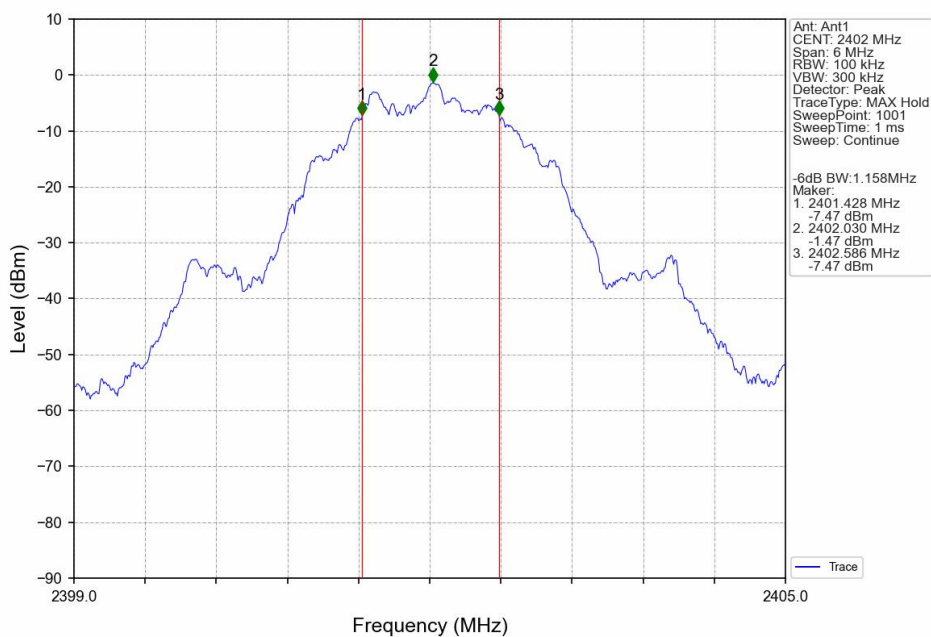
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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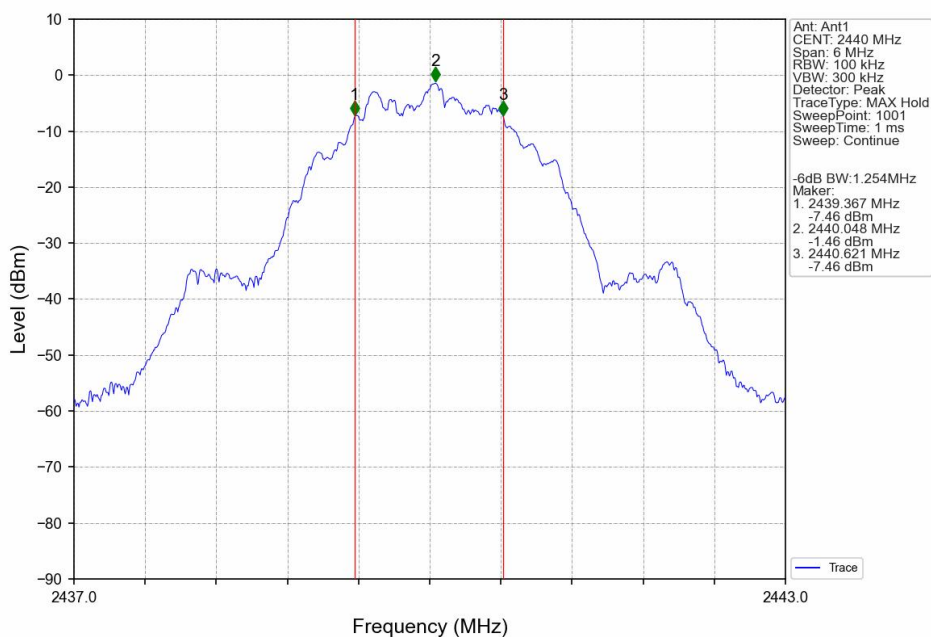
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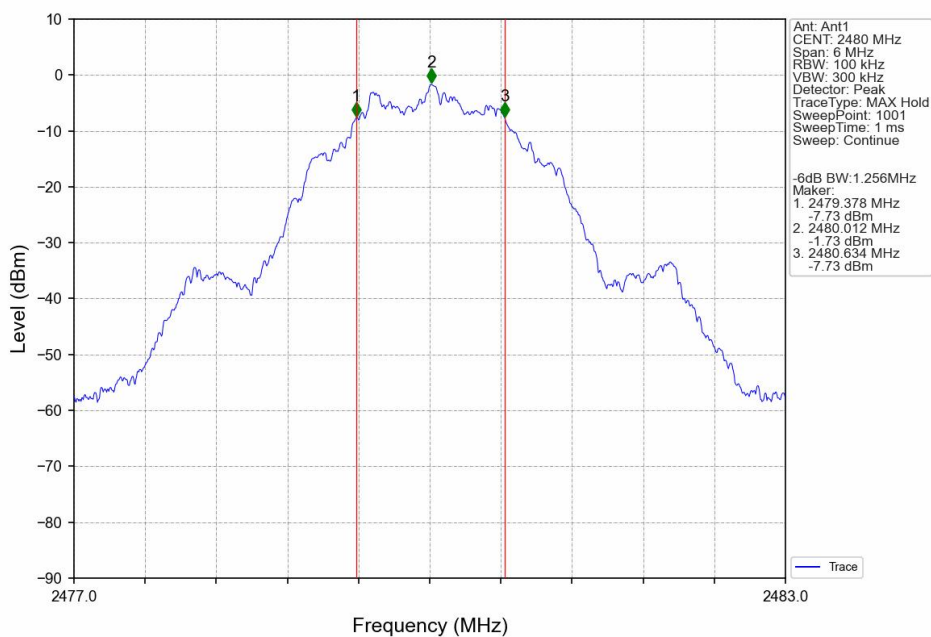
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2M_MCH_2440MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV





D.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
			ANT4	Limit	
1M	SISO	2402	-1.32	≤ 28.5	Pass
		2440	-1.27	≤ 28.5	Pass
		2480	-1.45	≤ 28.5	Pass
2M	SISO	2402	-1.23	≤ 28.5	Pass
		2440	-1.16	≤ 28.5	Pass
		2480	-1.32	≤ 28.5	Pass

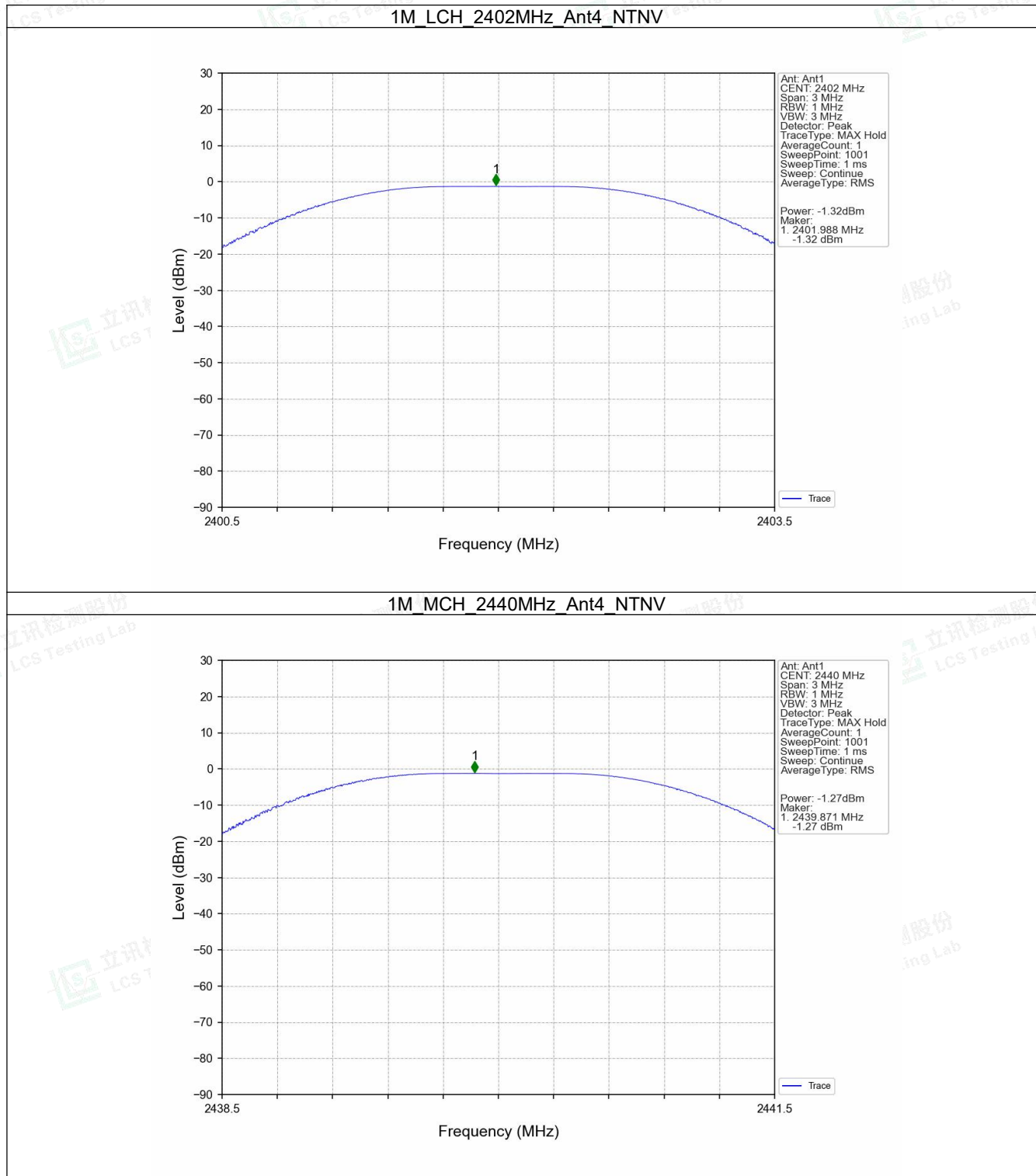
Note1: Antenna Gain: Ant4: 7.5dBi;





2.2 Test Graph

2.2.1 Power



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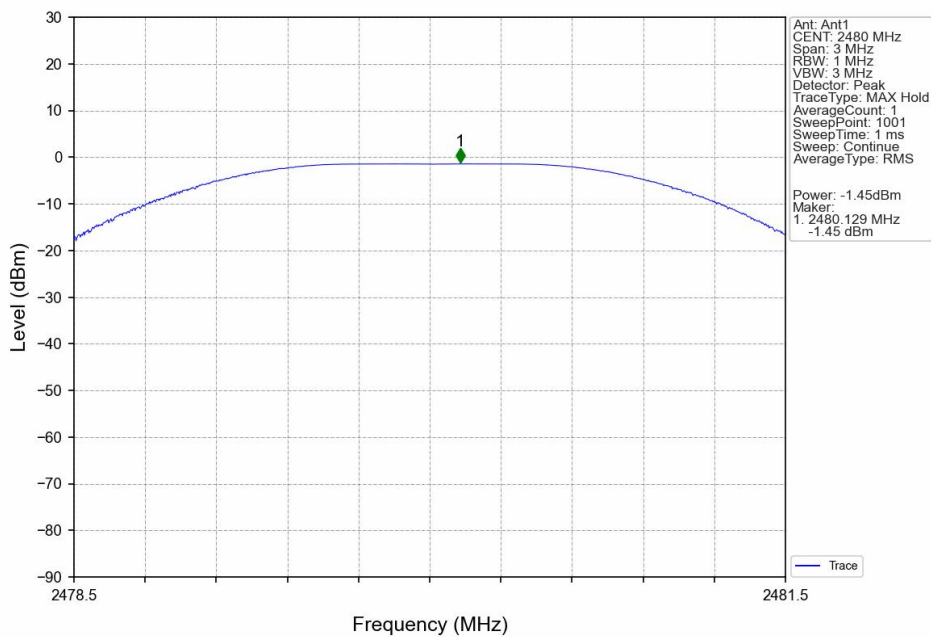
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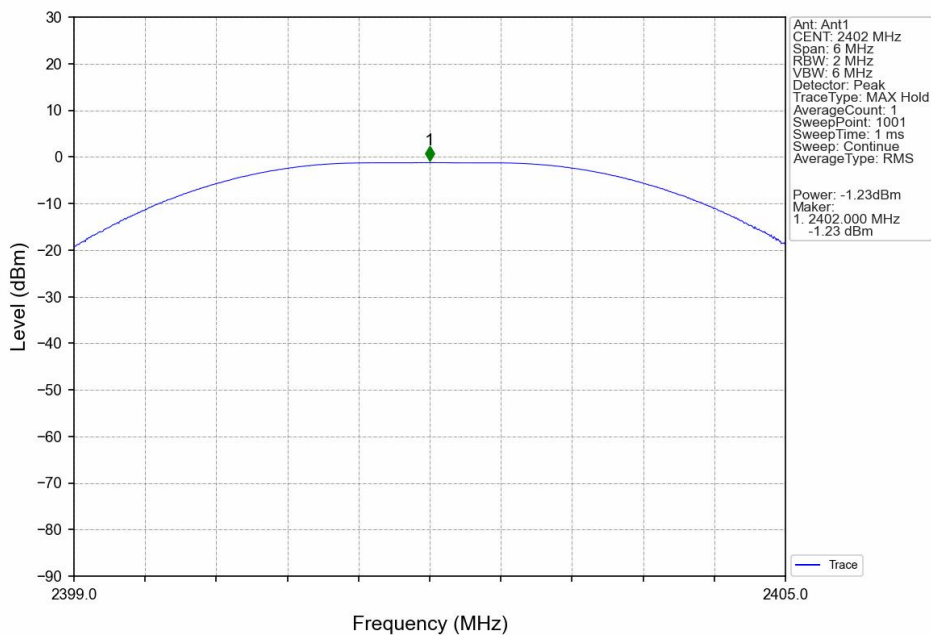
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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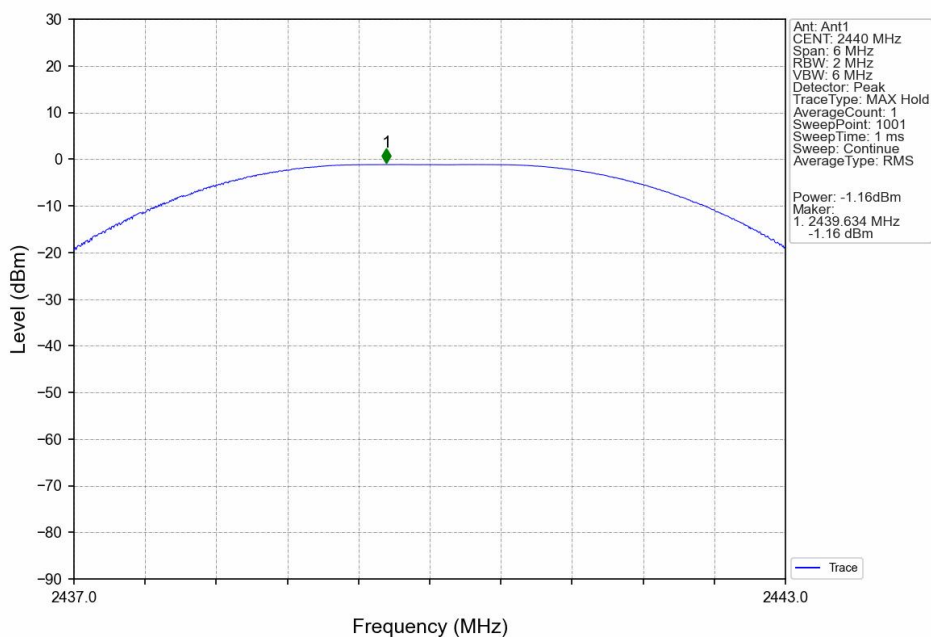
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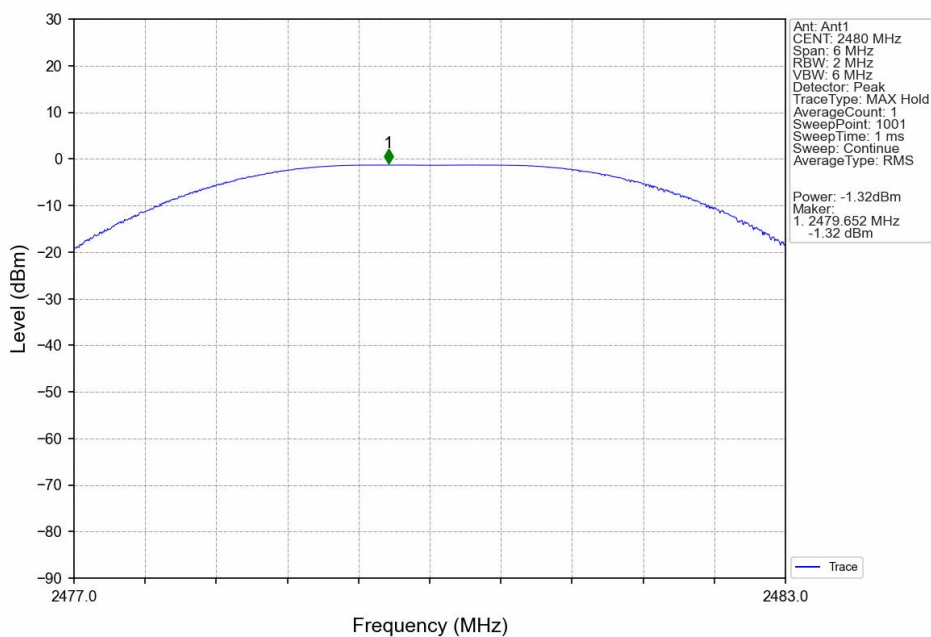
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2M_MCH_2440MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



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D.3 Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT4	Limit	
1M	SISO	2402	-17.23	≤ 6.5	Pass
		2440	-17.13	≤ 6.5	Pass
		2480	-15.79	≤ 6.5	Pass
2M	SISO	2402	-19.60	≤ 6.5	Pass
		2440	-19.37	≤ 6.5	Pass
		2480	-19.44	≤ 6.5	Pass

Note1: Antenna Gain: Ant4: 7.5dBi;

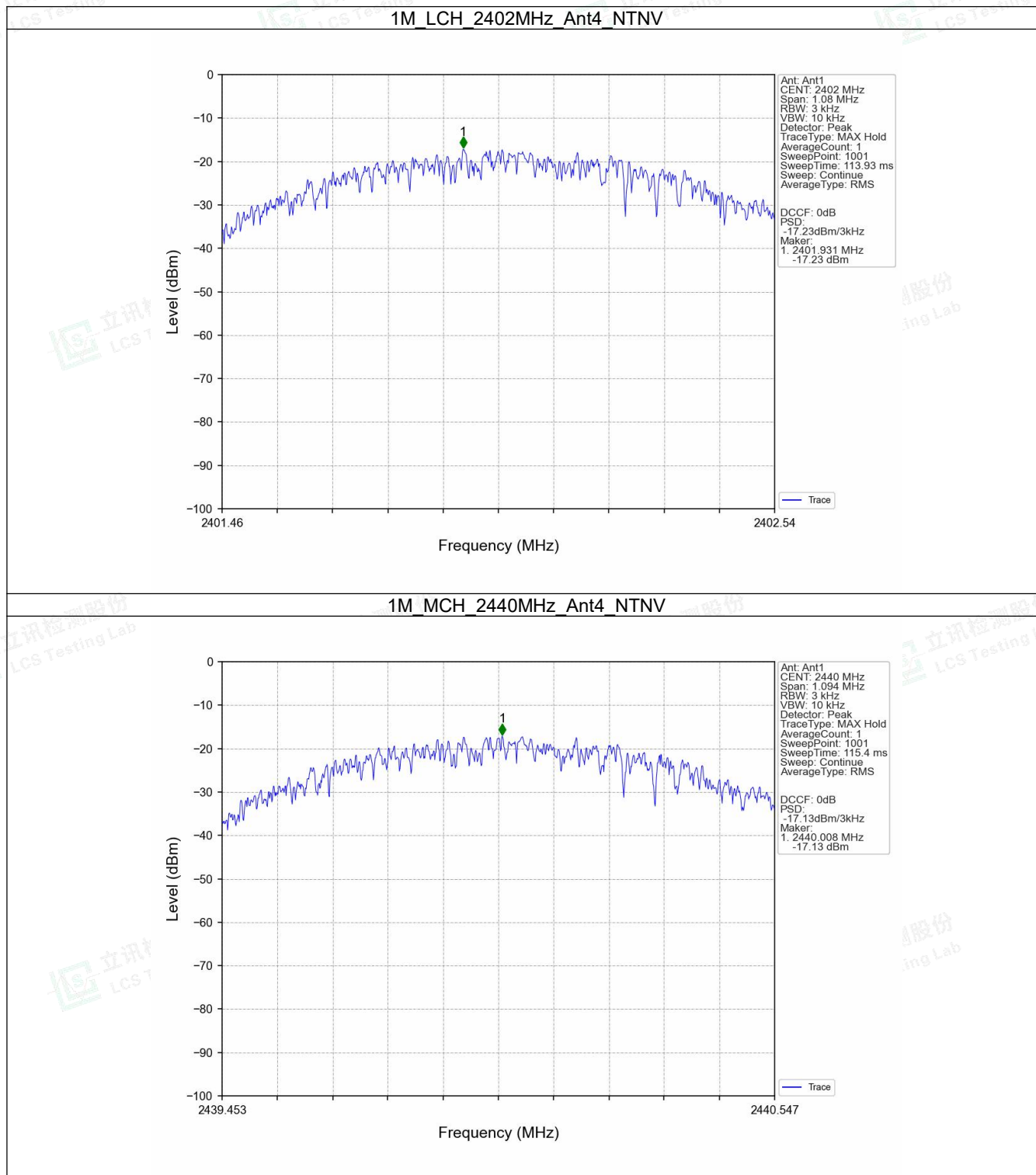


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3.2 Test Graph

3.2.1 PSD



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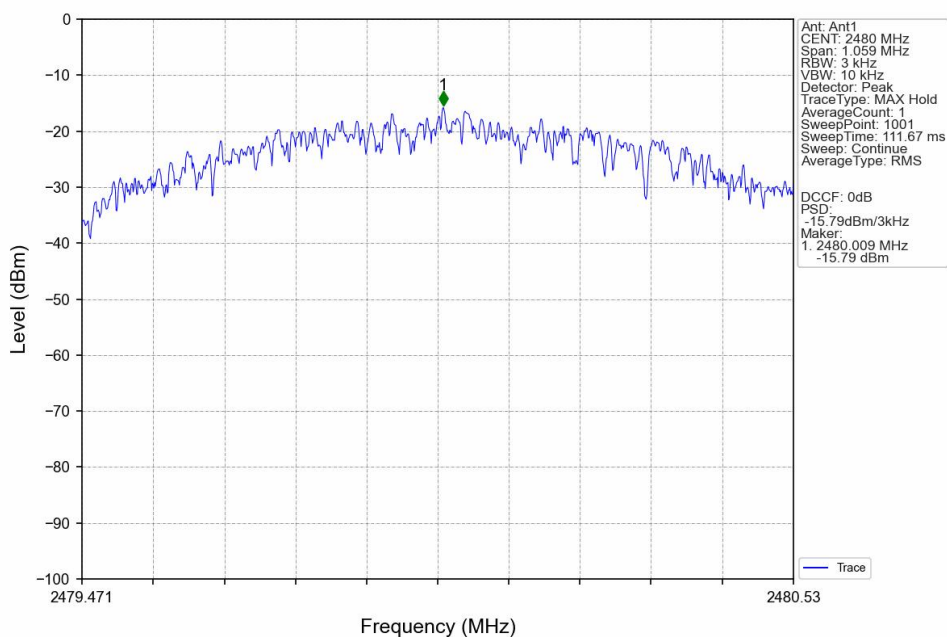
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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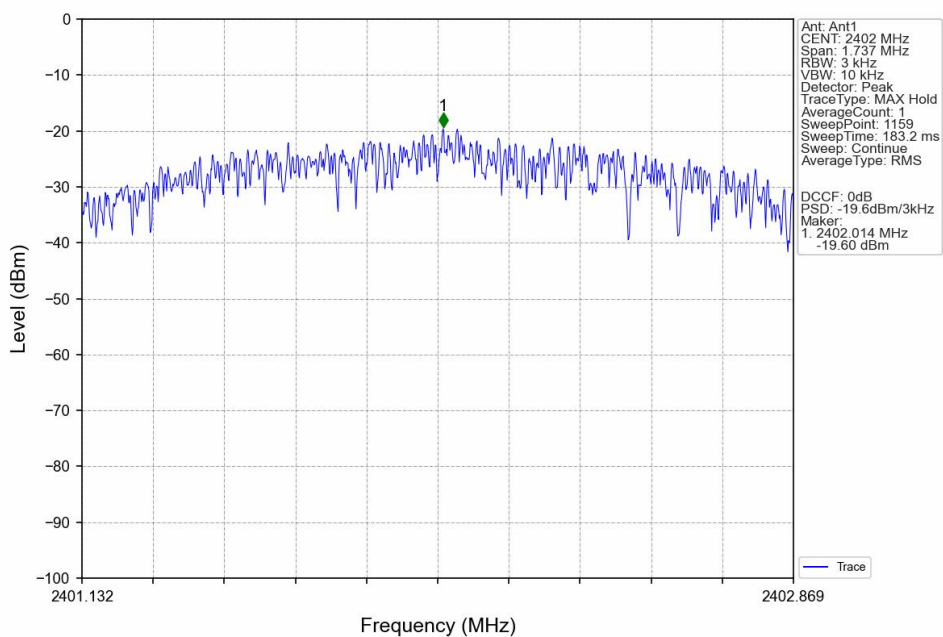
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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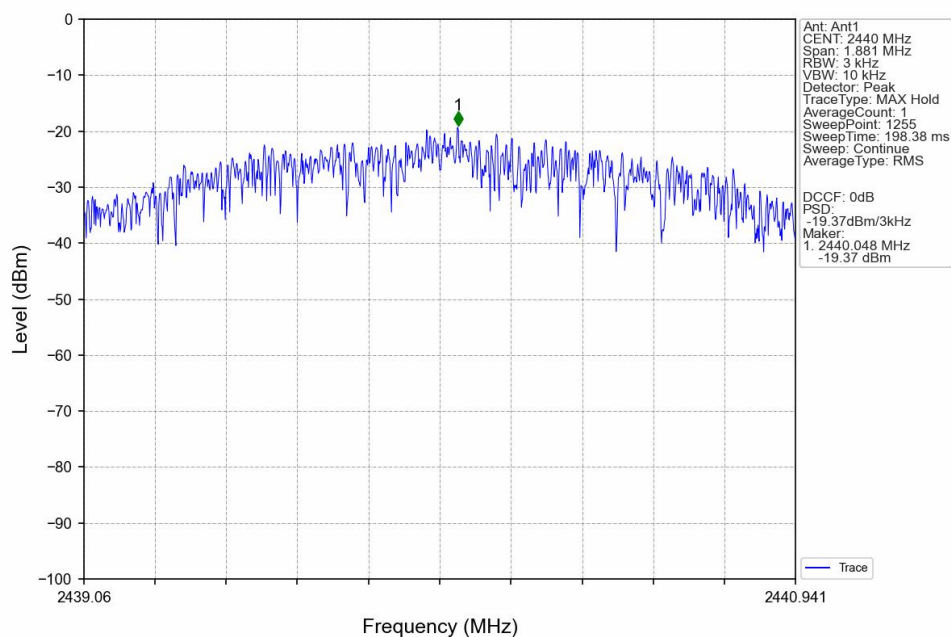
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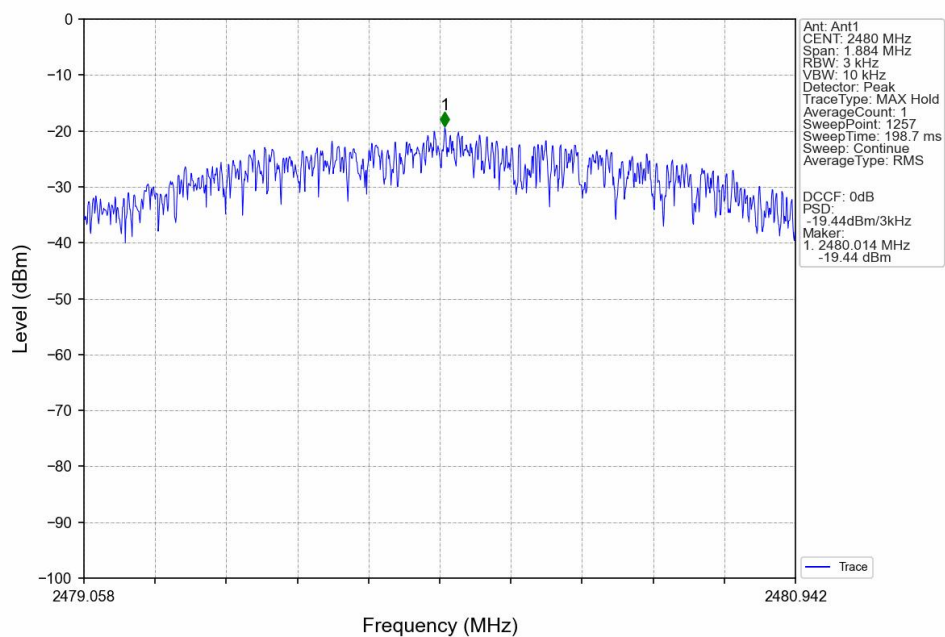
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2M_MCH_2440MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



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D.4 Band Edge

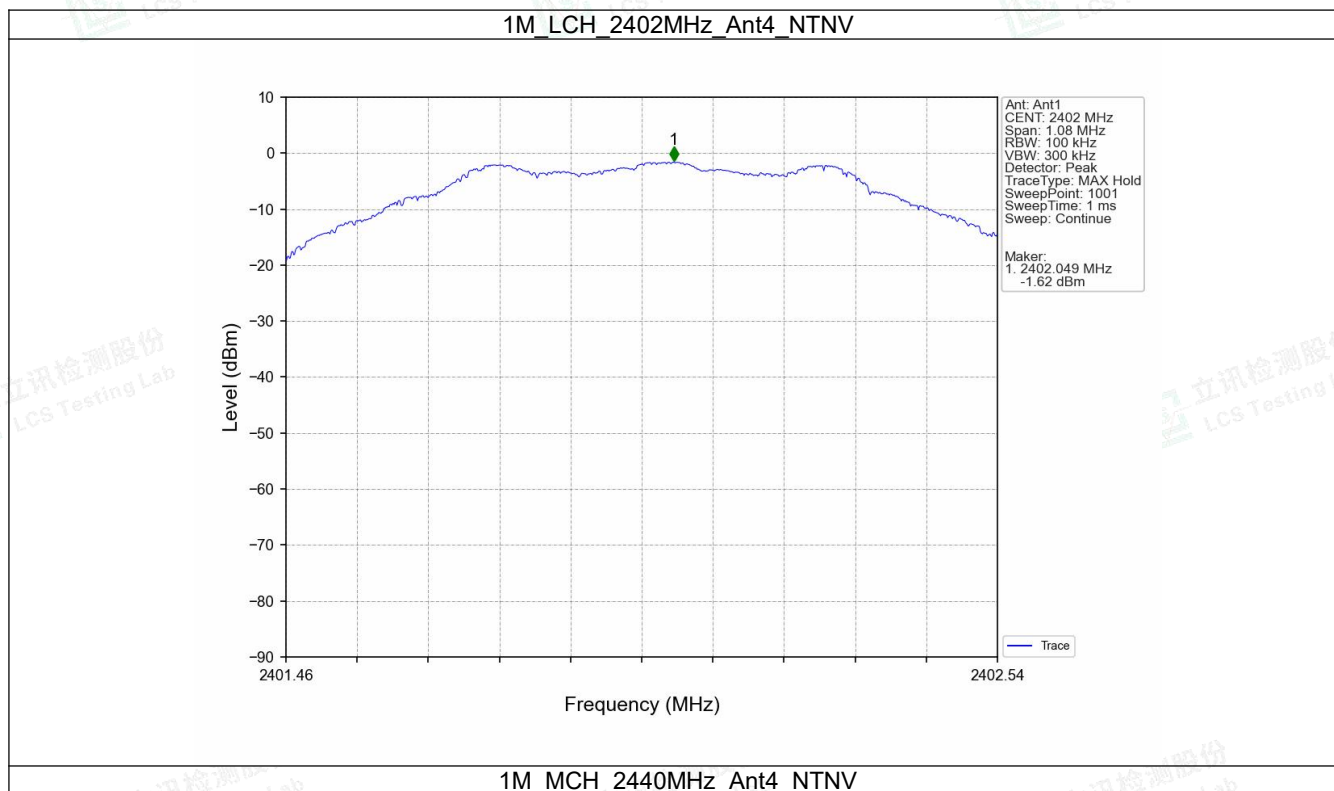
4.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	4	-1.62	-21.62	Pass
		2440	4	-1.62	-21.62	Pass
		2480	4	-1.62	-21.62	Pass
2M	SISO	2402	4	-1.58	-21.58	Pass
		2440	4	-1.58	-21.58	Pass
		2480	4	-1.58	-21.58	Pass

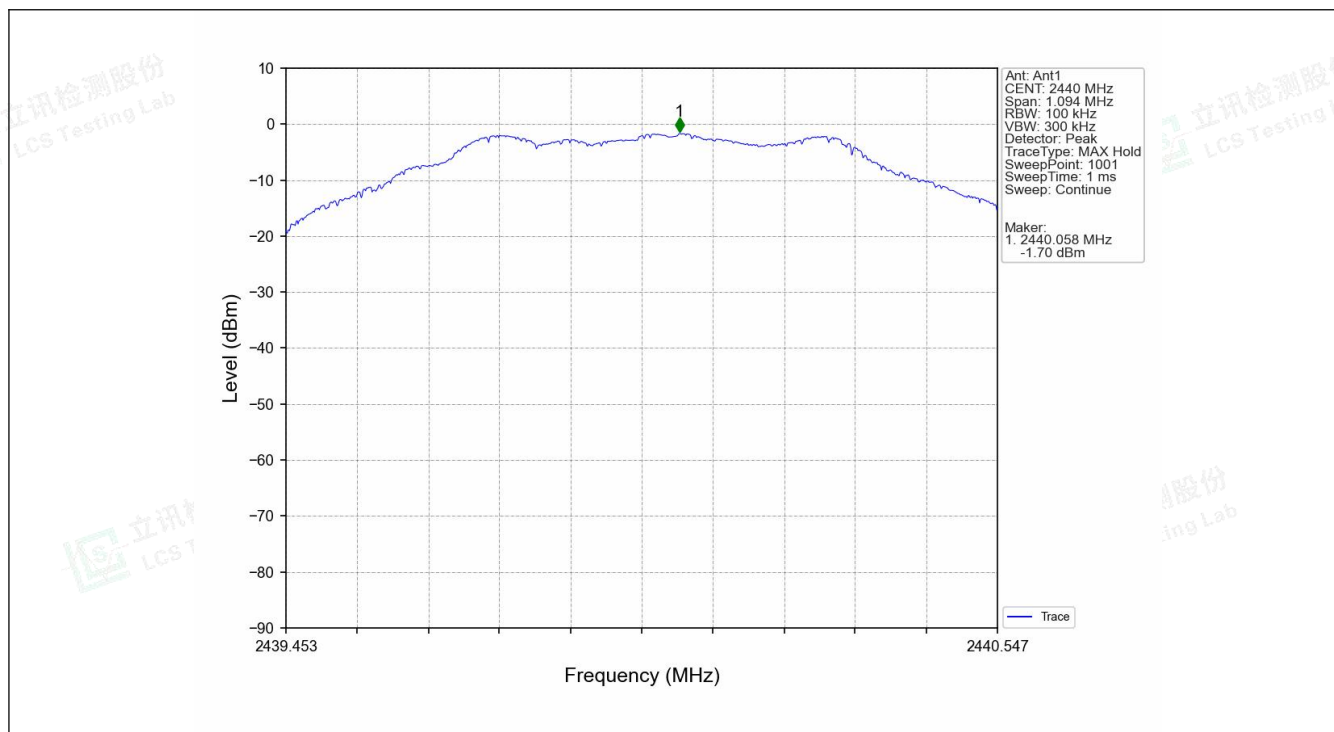
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.

4.2 Test Graph

4.2.1 Ref



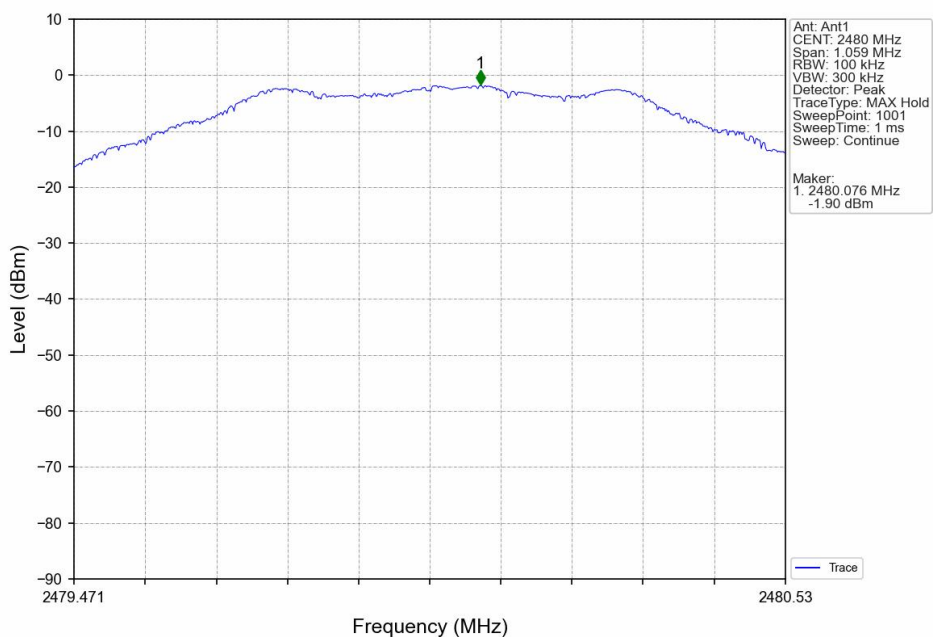
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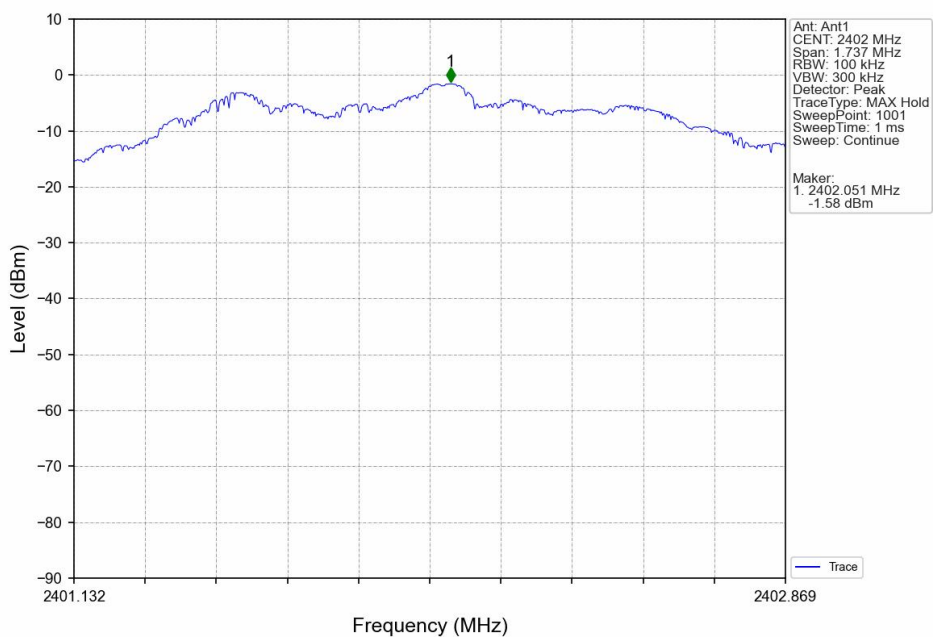
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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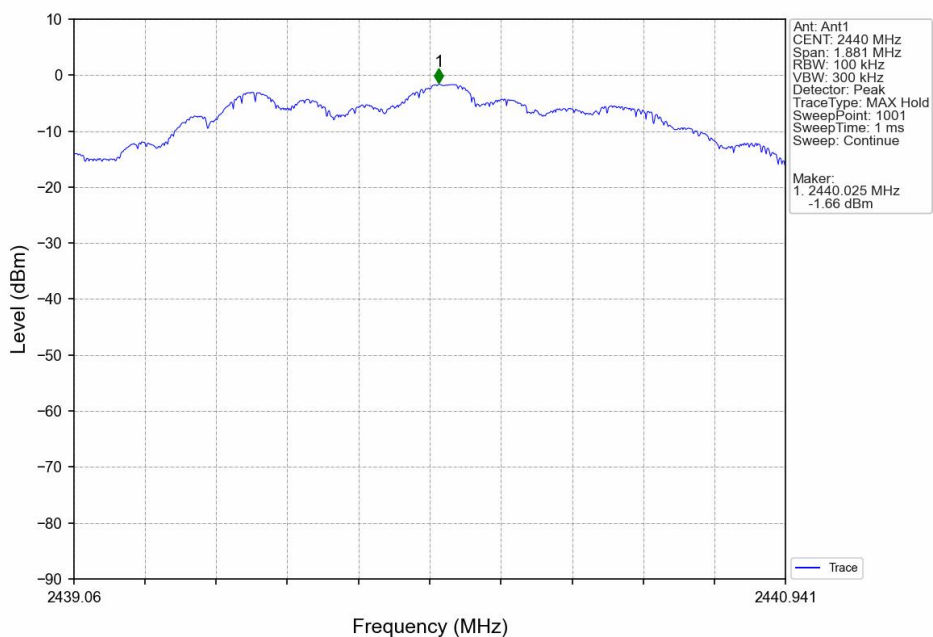
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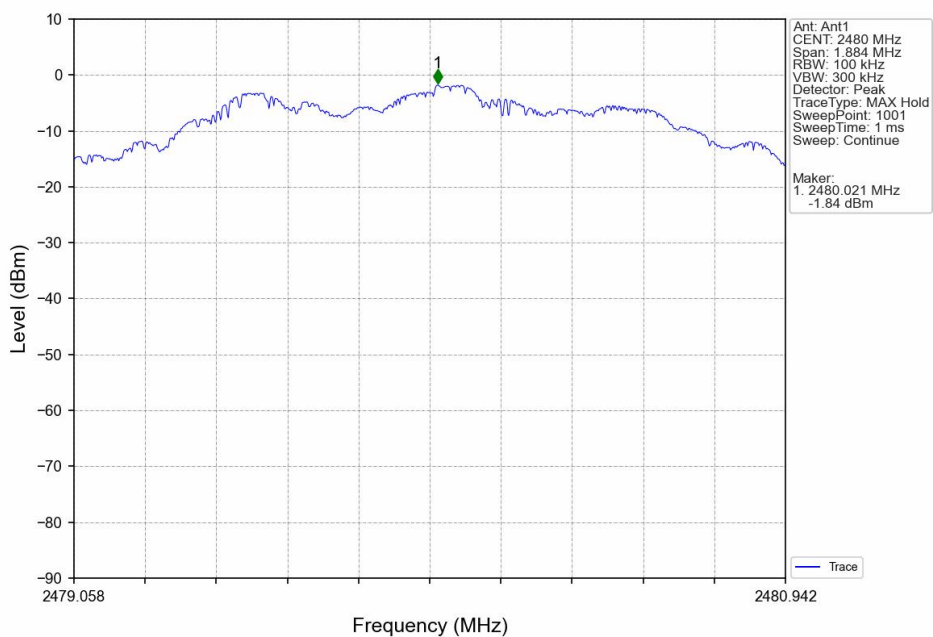
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2M_MCH_2440MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

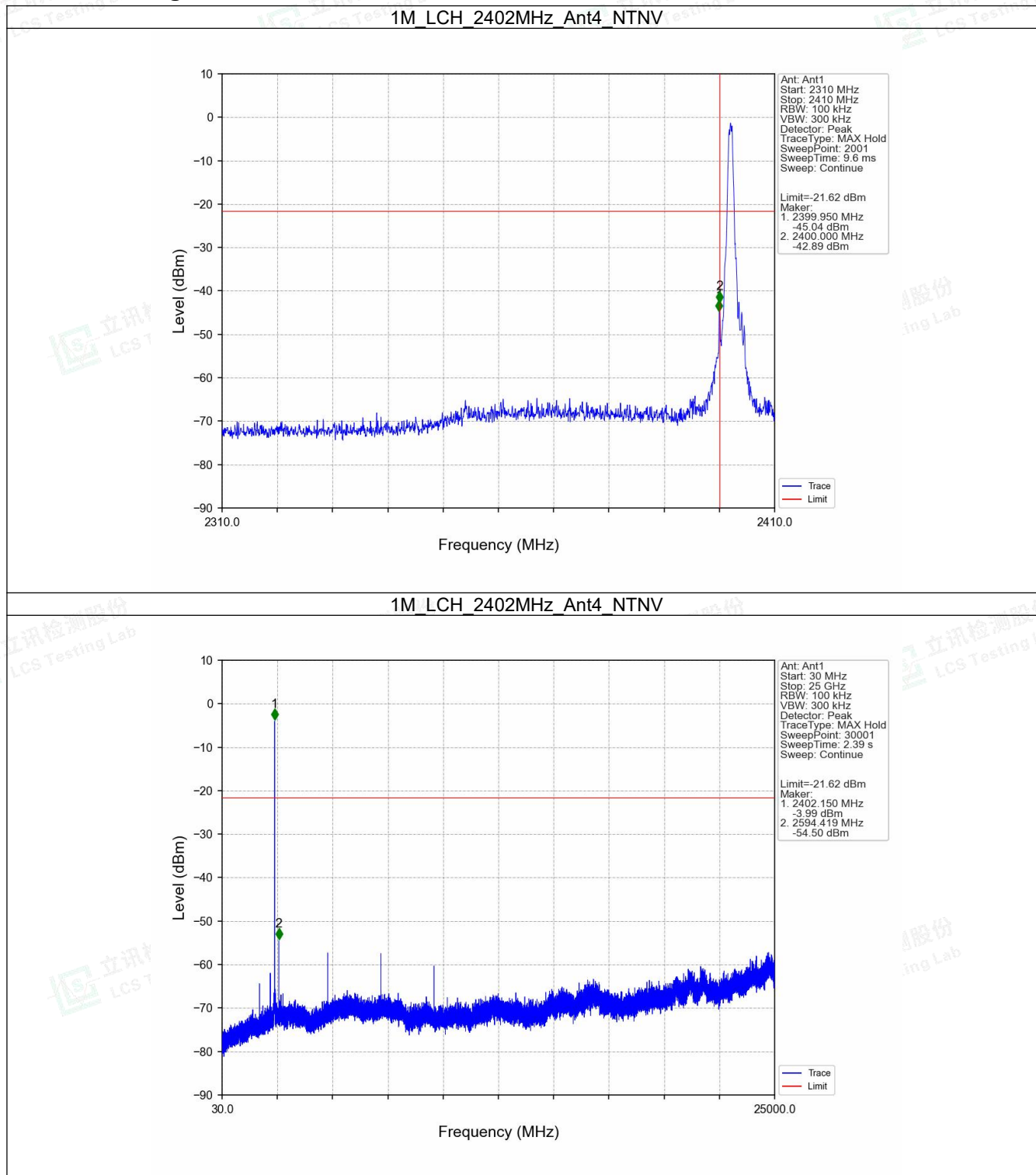
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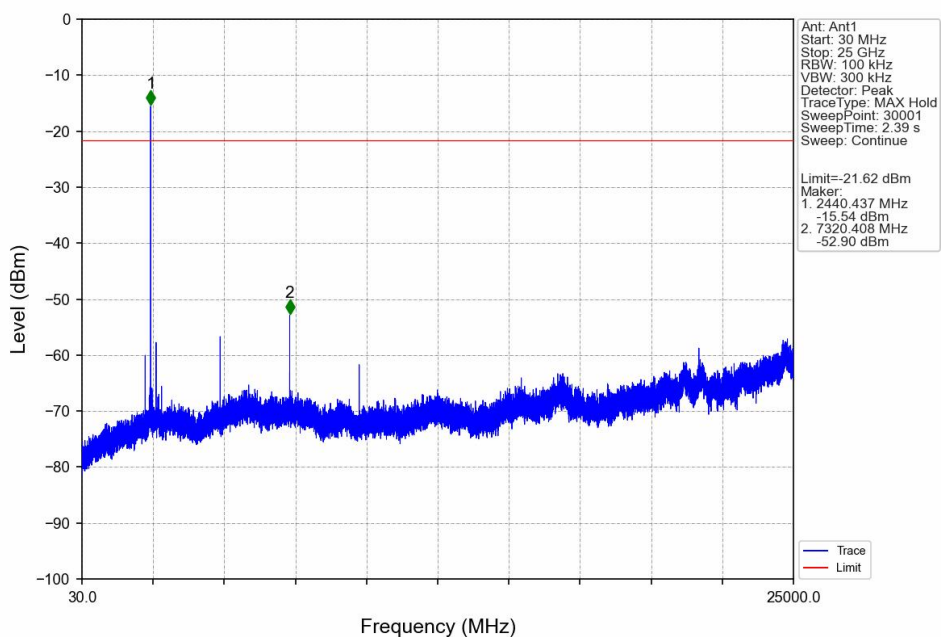
4.2.2 Band Edge



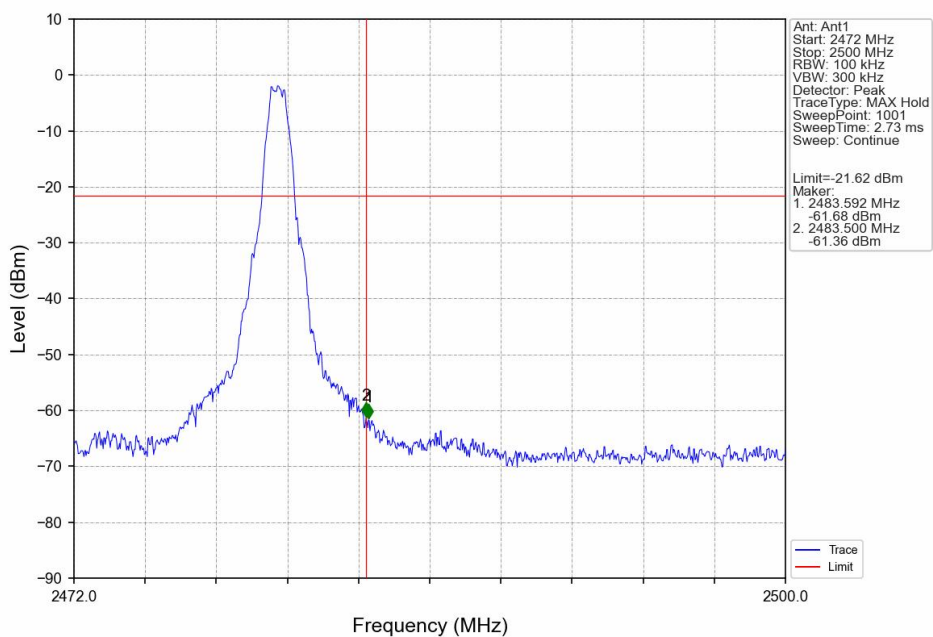
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1M_MCH_2440MHz_Ant4_NTNV



1M_HCH_2480MHz_Ant4_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

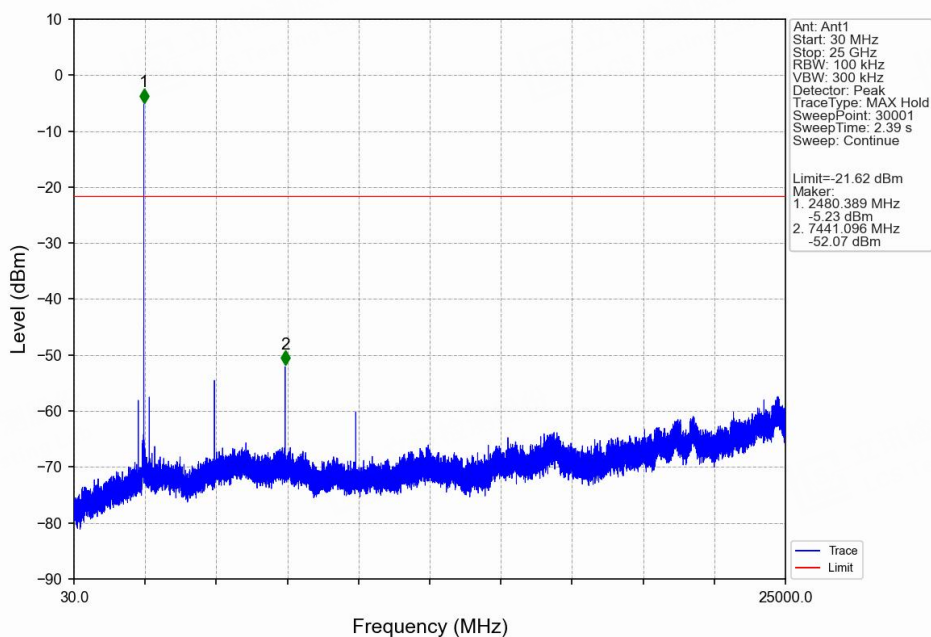
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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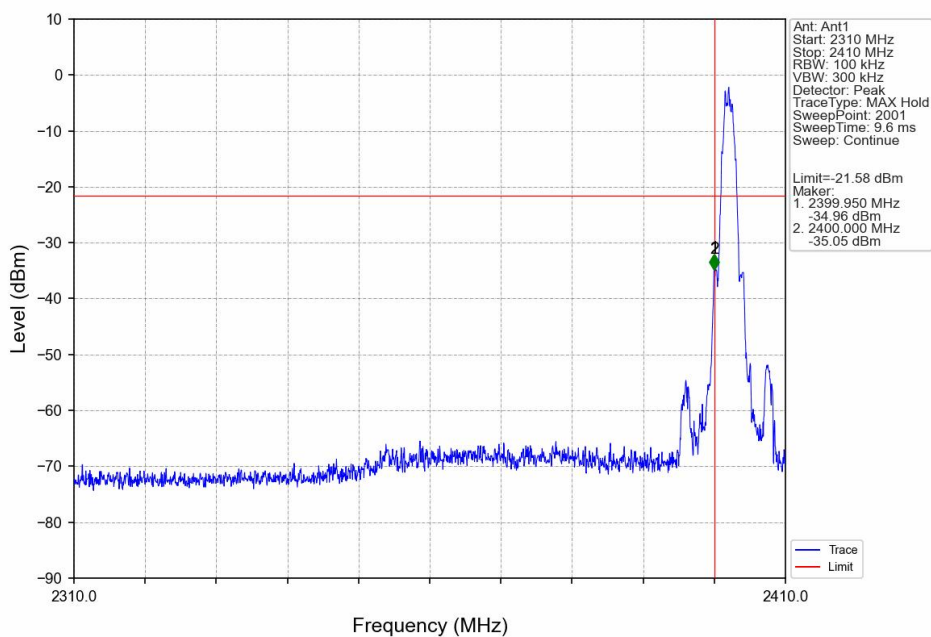
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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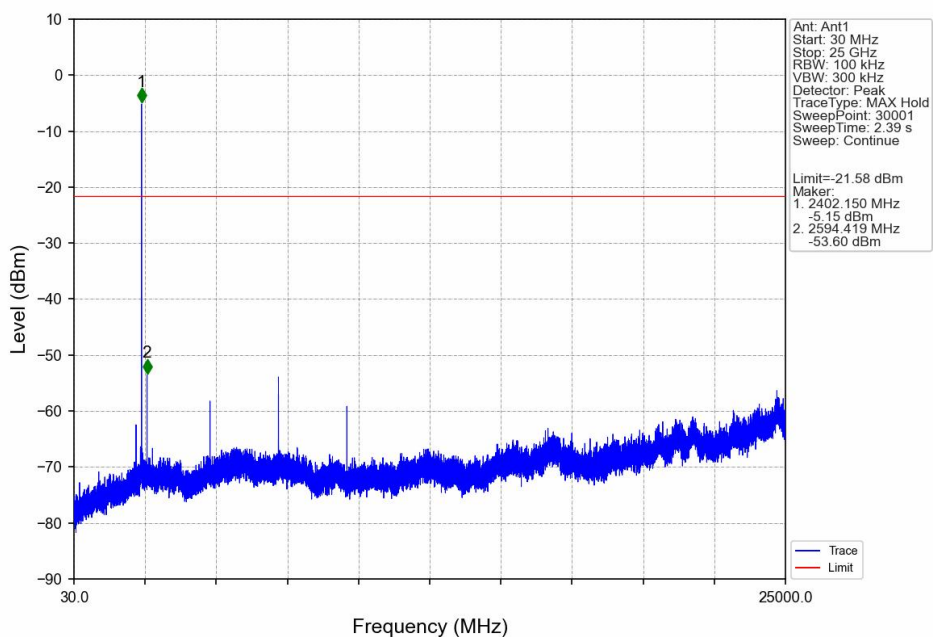
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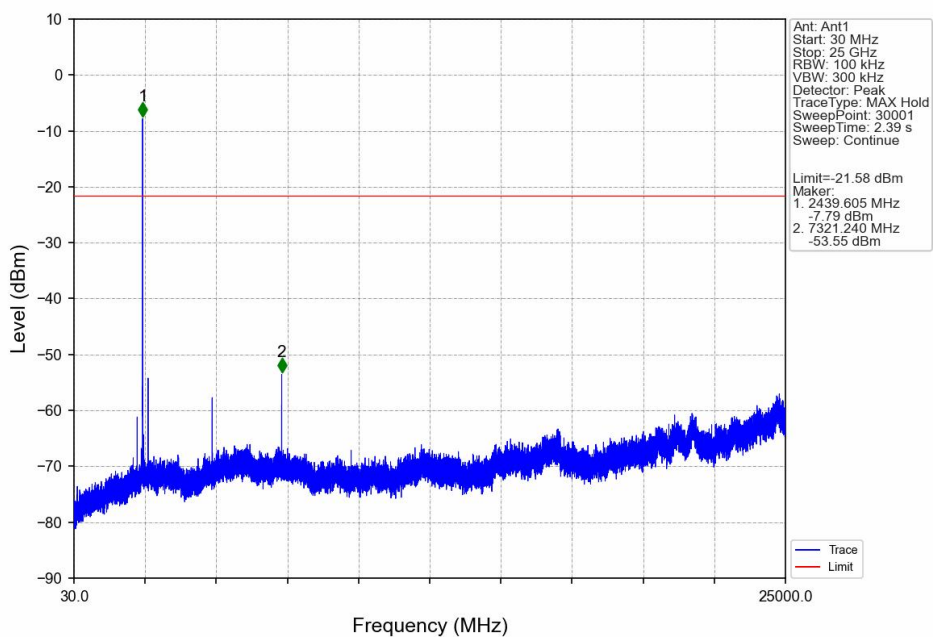
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2M_LCH_2402MHz_Ant4_NTNV



2M_MCH_2440MHz_Ant4_NTNV



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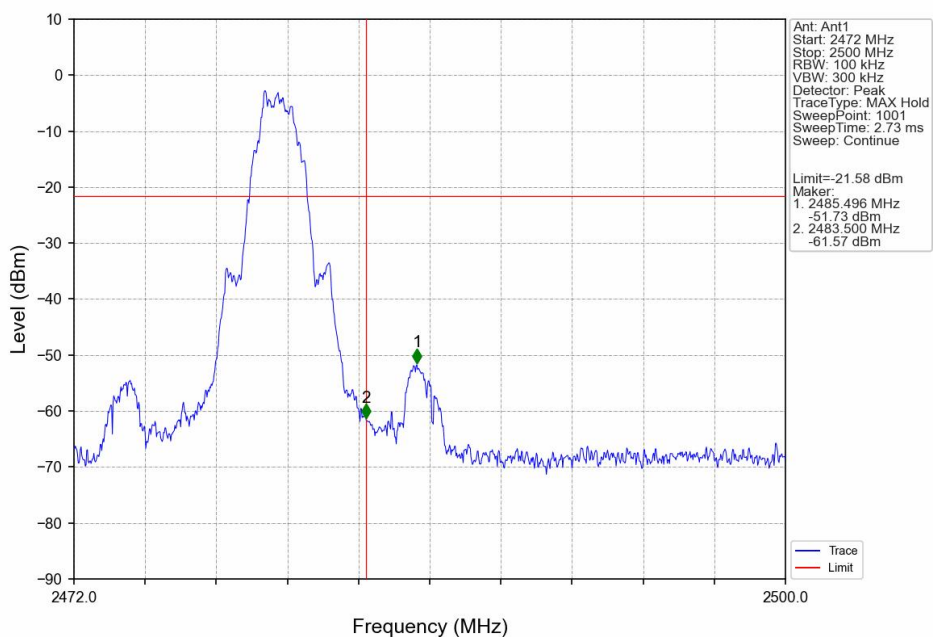
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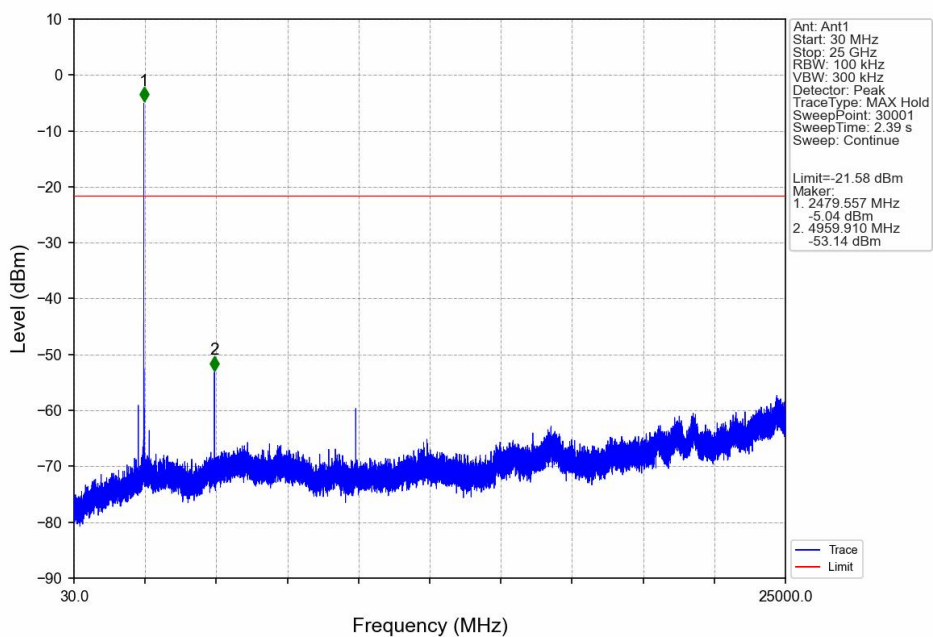
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2M_HCH_2480MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



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D.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	4	-1.62
		2440	4	-1.70
		2480	4	-1.90
2M	SISO	2402	4	-1.58
		2440	4	-1.66
		2480	4	-1.84

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.

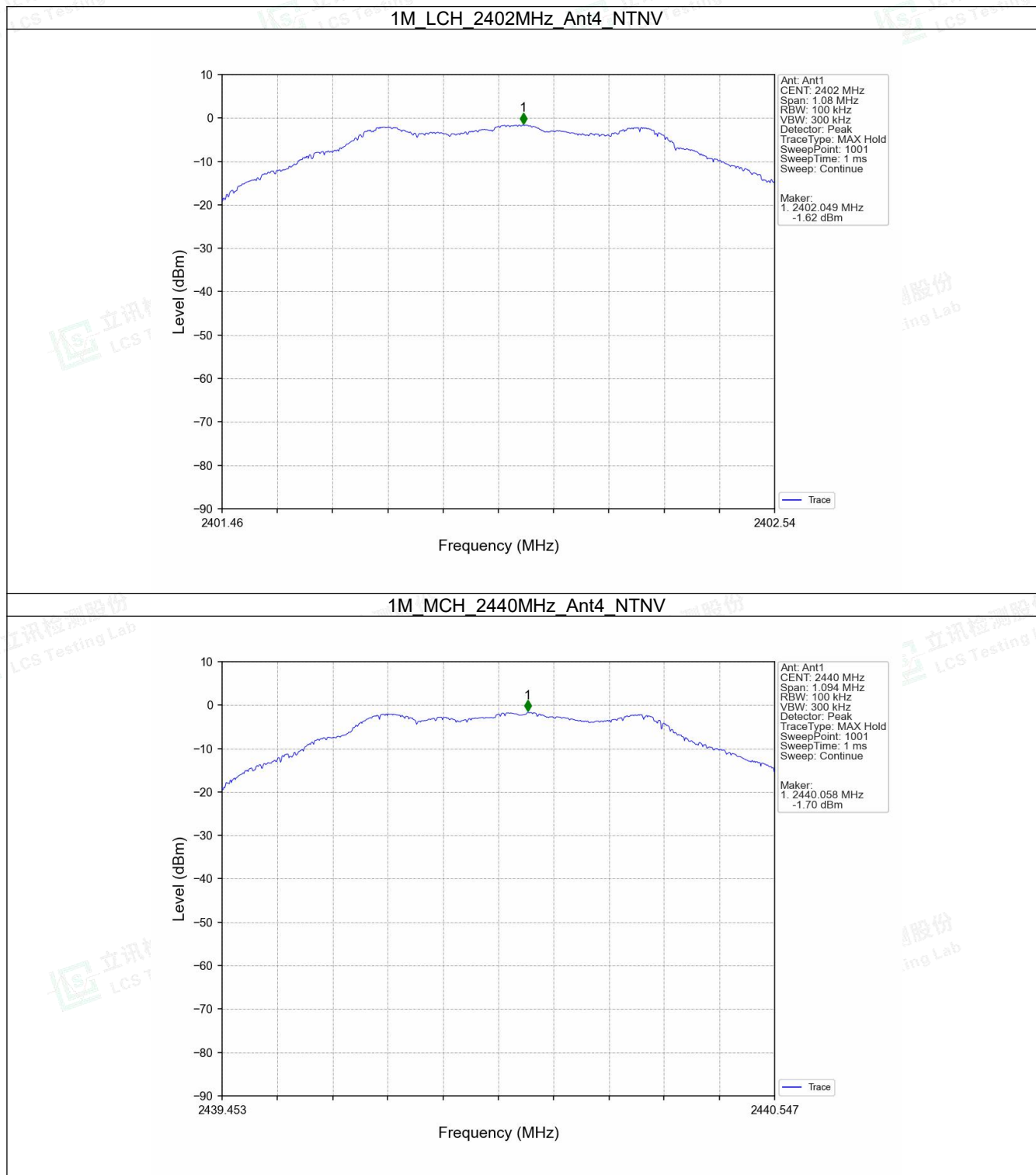


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5.2 Test Graph

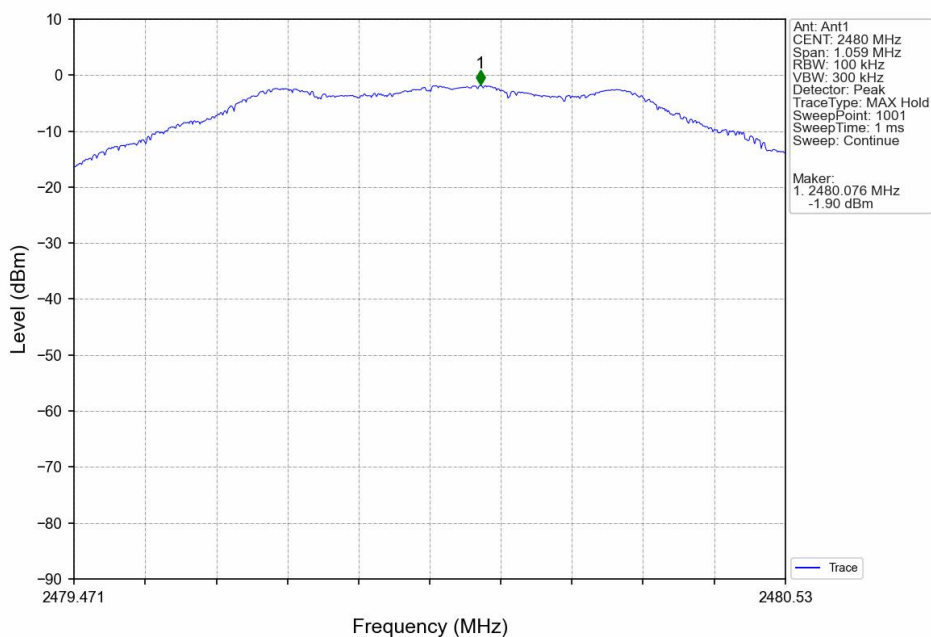
5.2.1 Ref



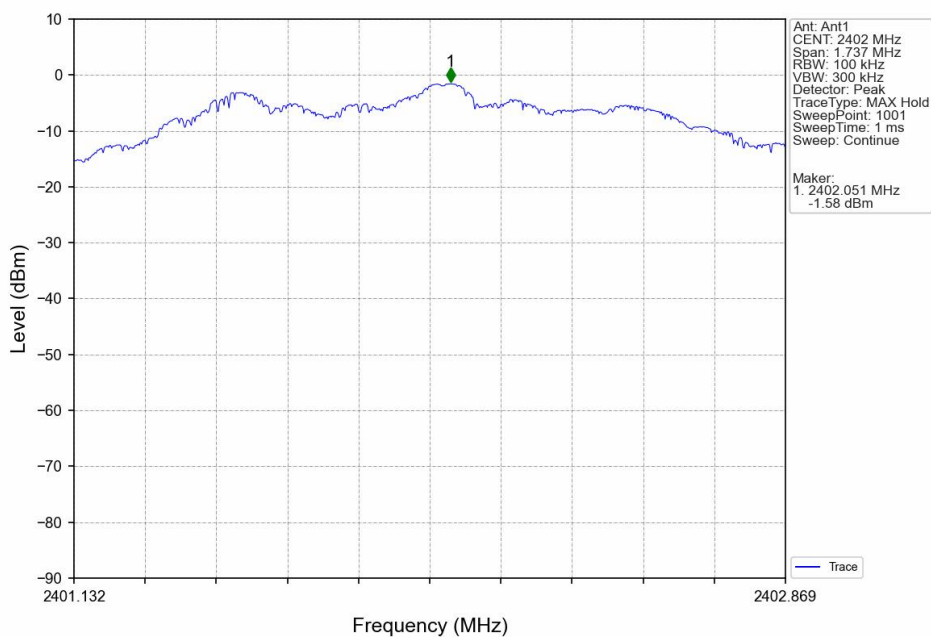
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1M_HCH_2480MHz_Ant4_NTNV

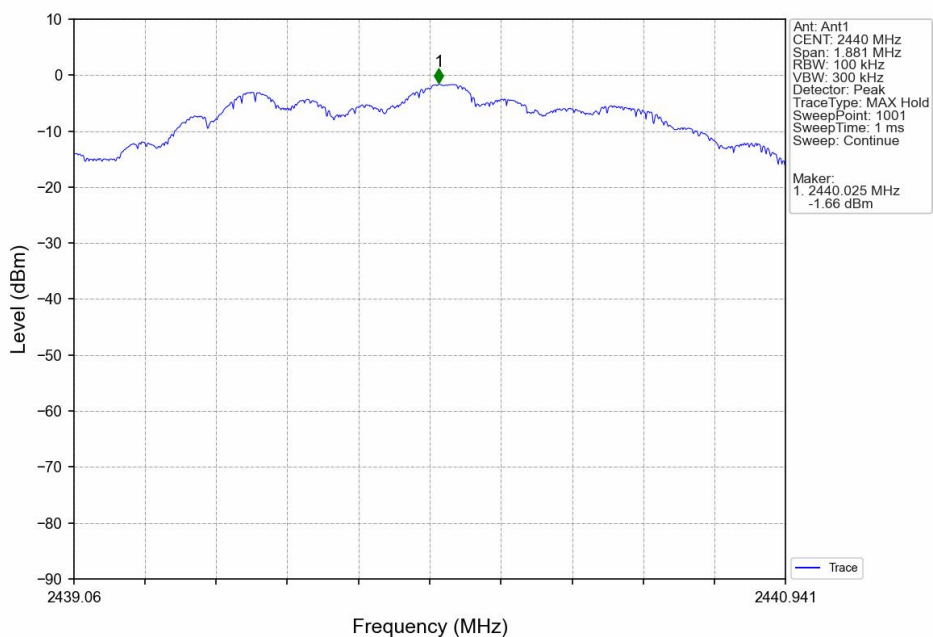


2M_LCH_2402MHz_Ant4_NTNV

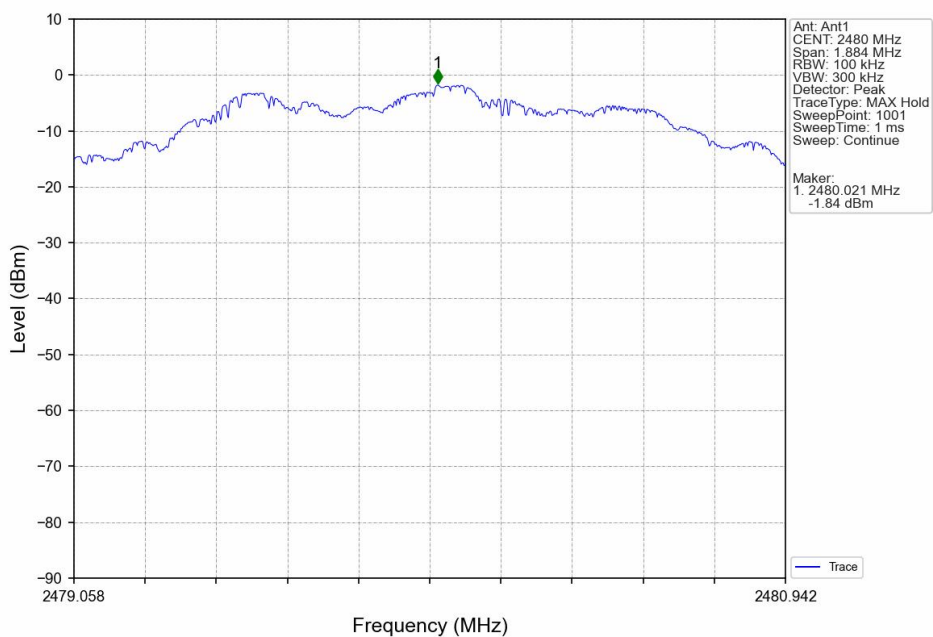




2M_MCH_2440MHz_Ant4_NTNV

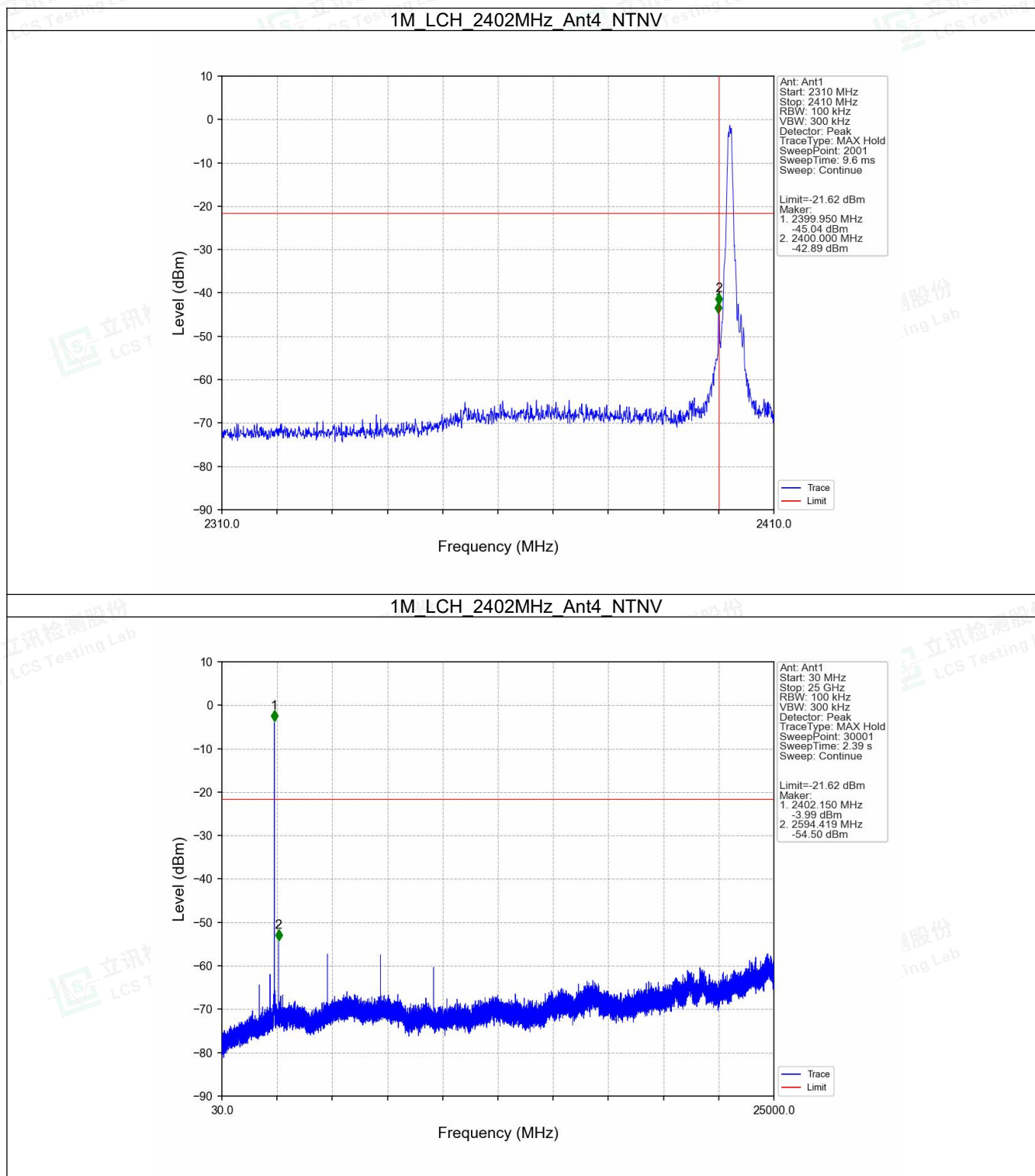


2M_HCH_2480MHz_Ant4_NTNV





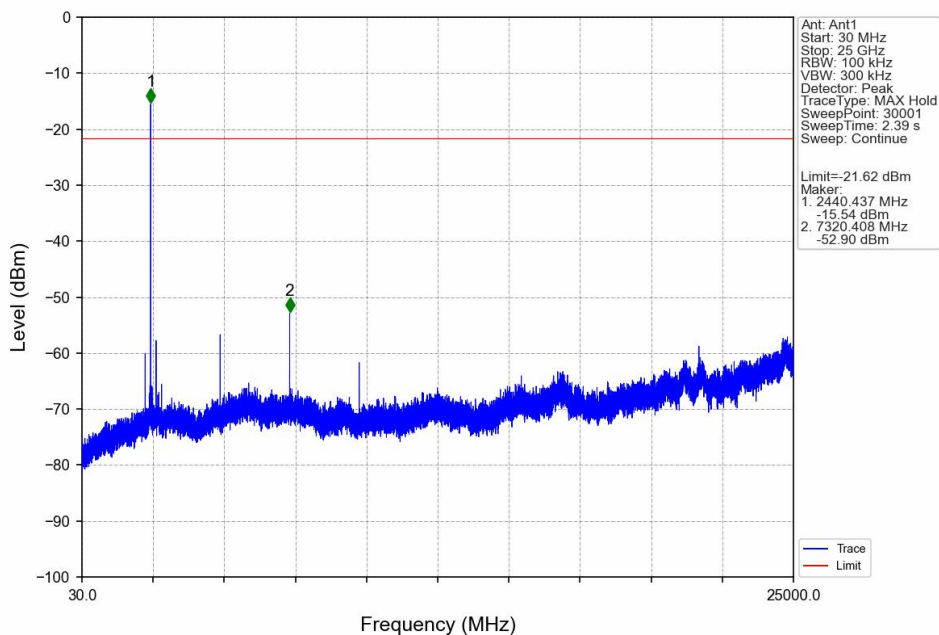
5.2.2 CSE



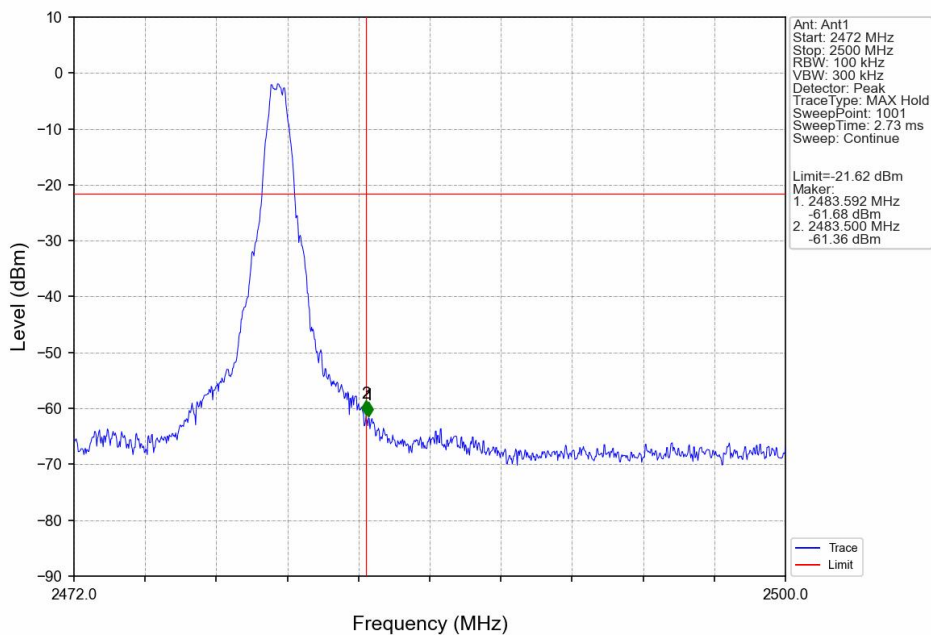
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1M_MCH_2440MHz_Ant4_NTNV

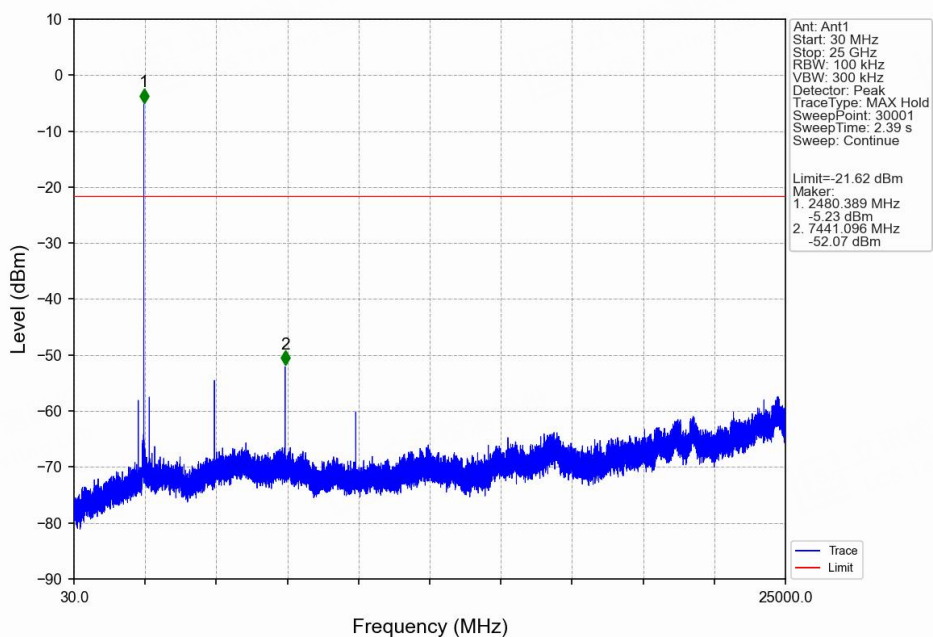


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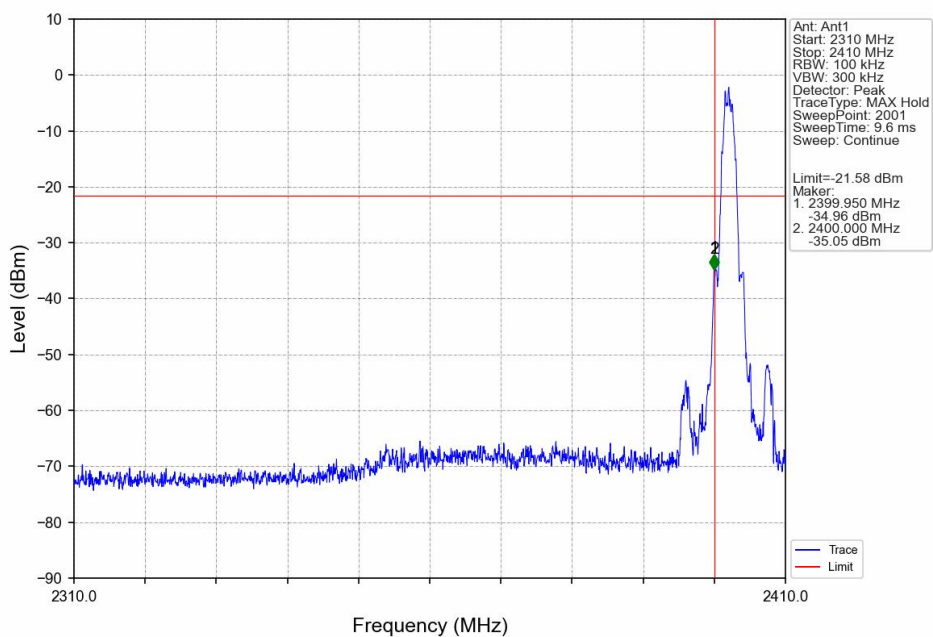




1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



Shenzhen LCS Compliance Testing Laboratory Ltd.

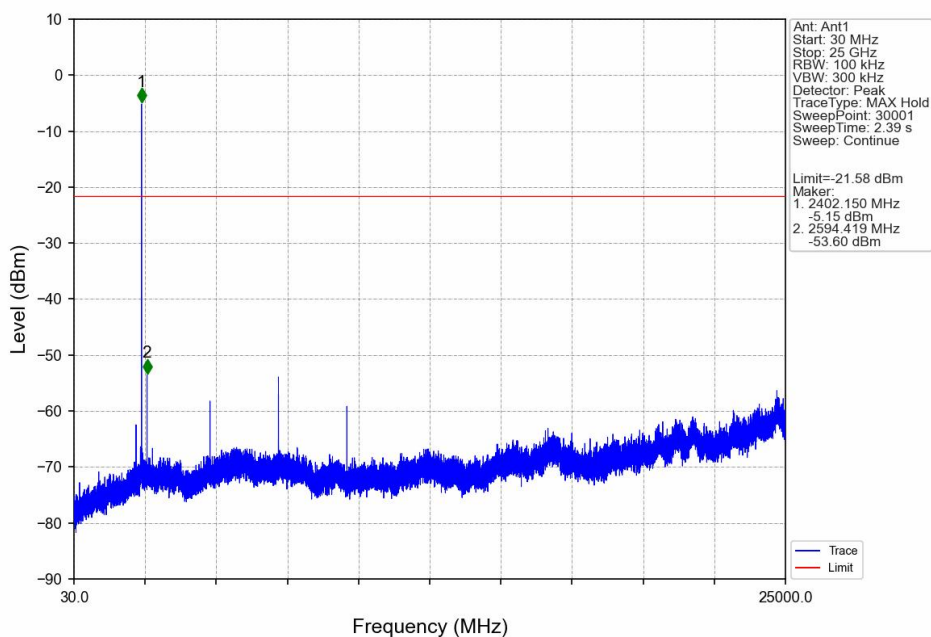
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Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

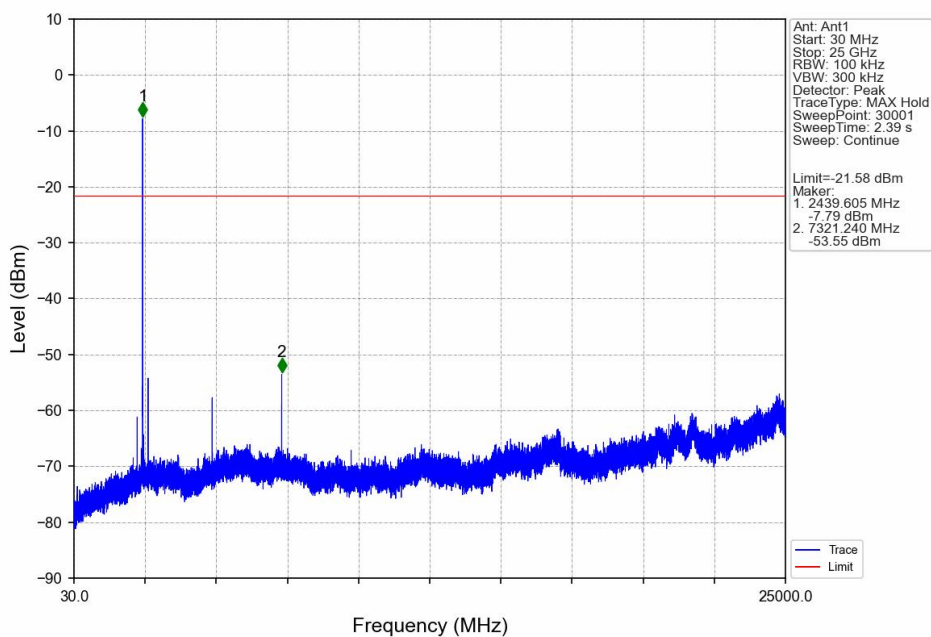
Scan code to check authenticity



2M_LCH_2402MHz_Ant4_NTNV



2M_MCH_2440MHz_Ant4_NTNV



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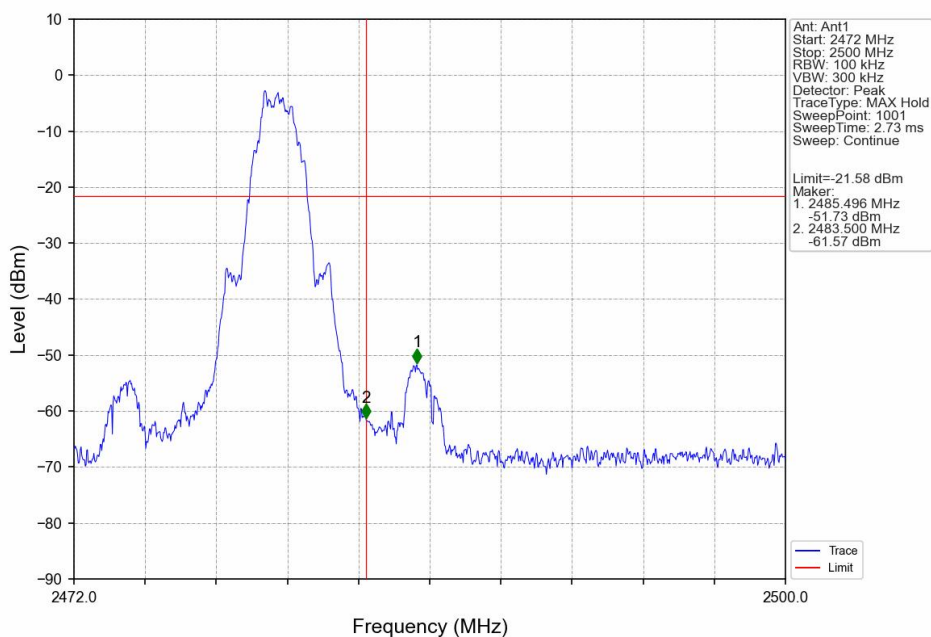
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street,
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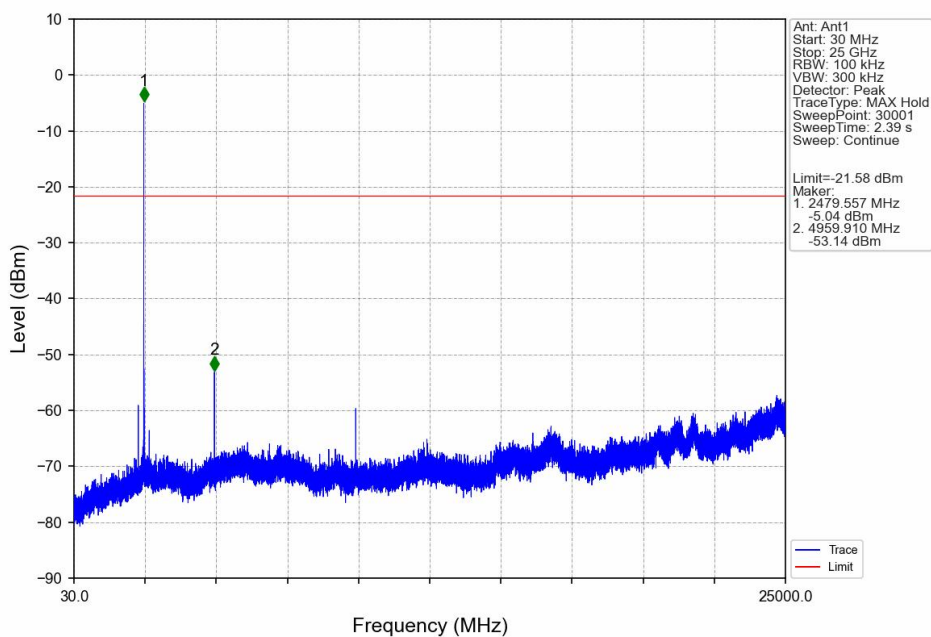
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2M_HCH_2480MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



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D.6 Duty Cycle

6.1 Test Result

6.1.1 Ant4

Ant4							
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	0.536	1.250	42.88	3.68	0.01
		2480	0.537	1.251	42.93	3.67	0.01
2M	SISO	2402	0.280	1.250	22.40	6.50	0.03
		2440	0.280	1.250	22.40	6.50	0.03
		2480	0.281	1.250	22.48	6.48	0.03

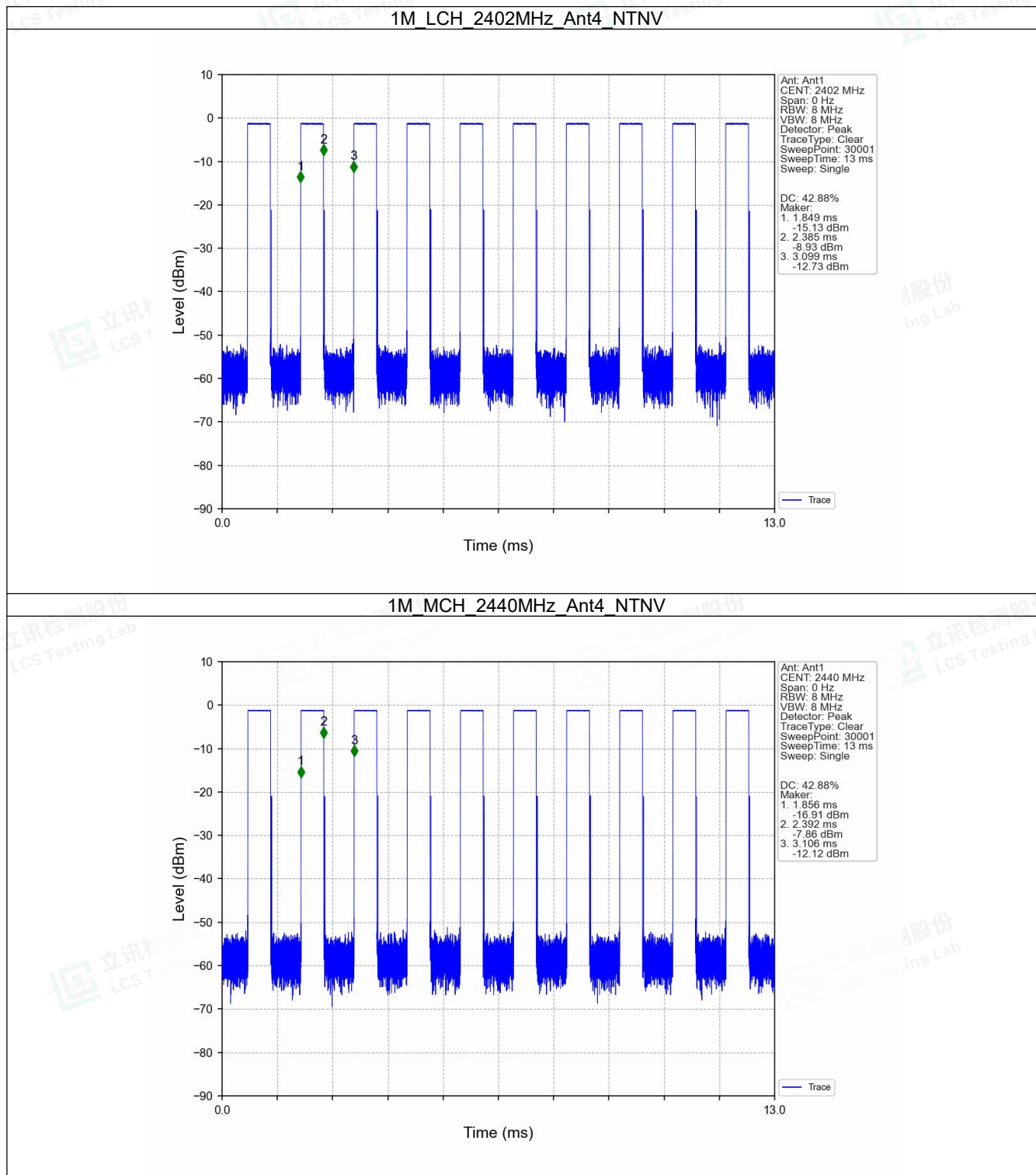


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6.2 Test Graph

6.2.1 Ant4



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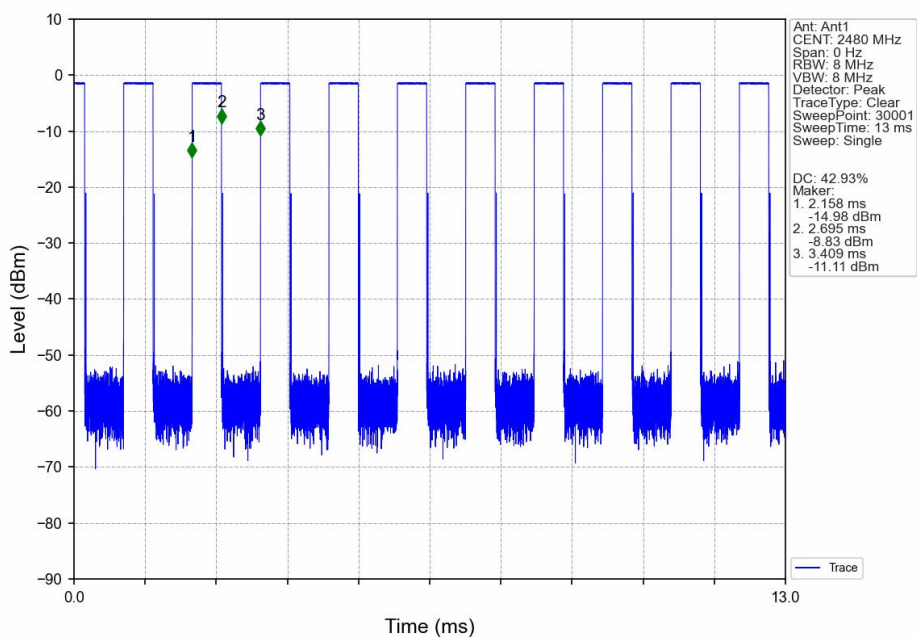
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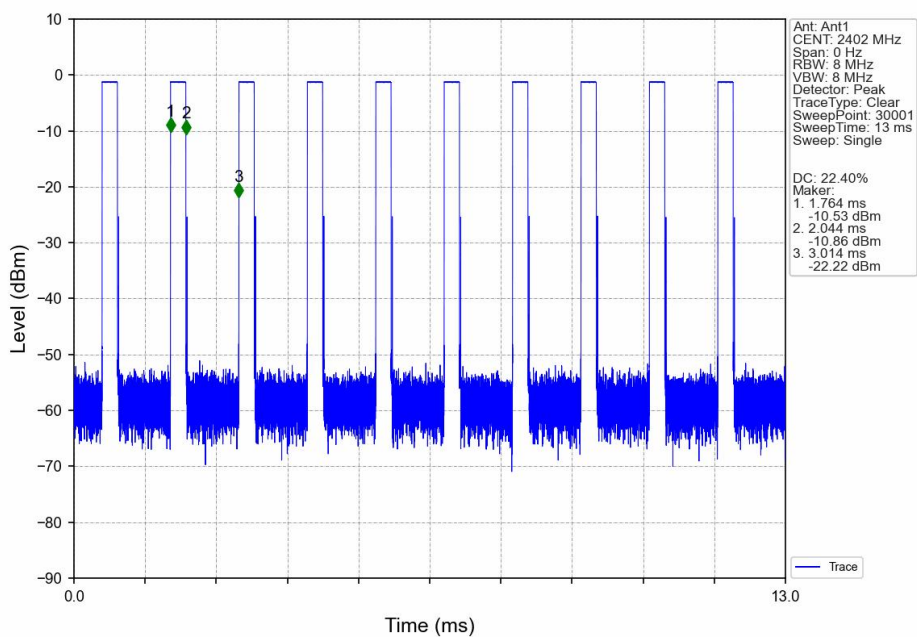
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1M_HCH_2480MHz_Ant4_NTNV



2M_LCH_2402MHz_Ant4_NTNV



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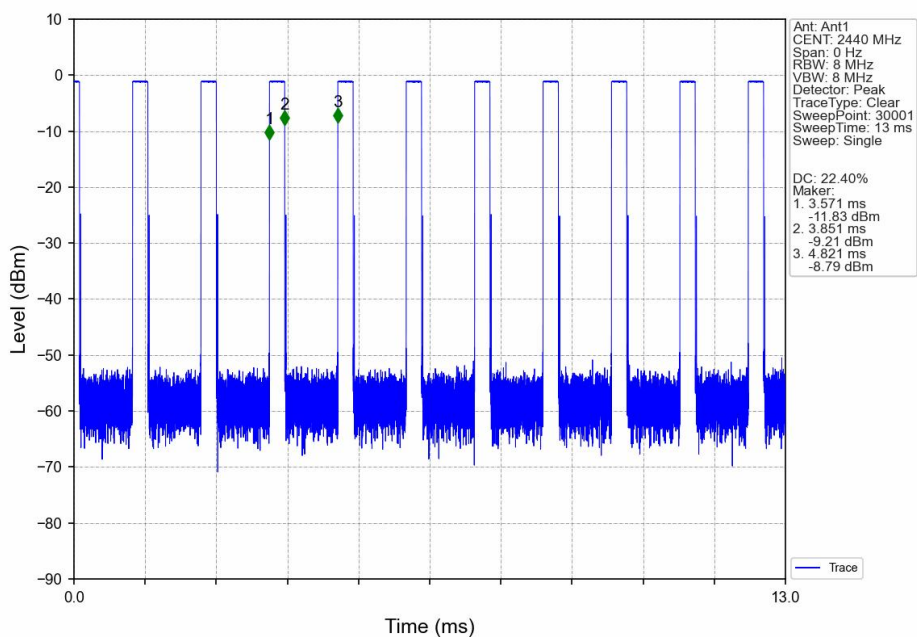
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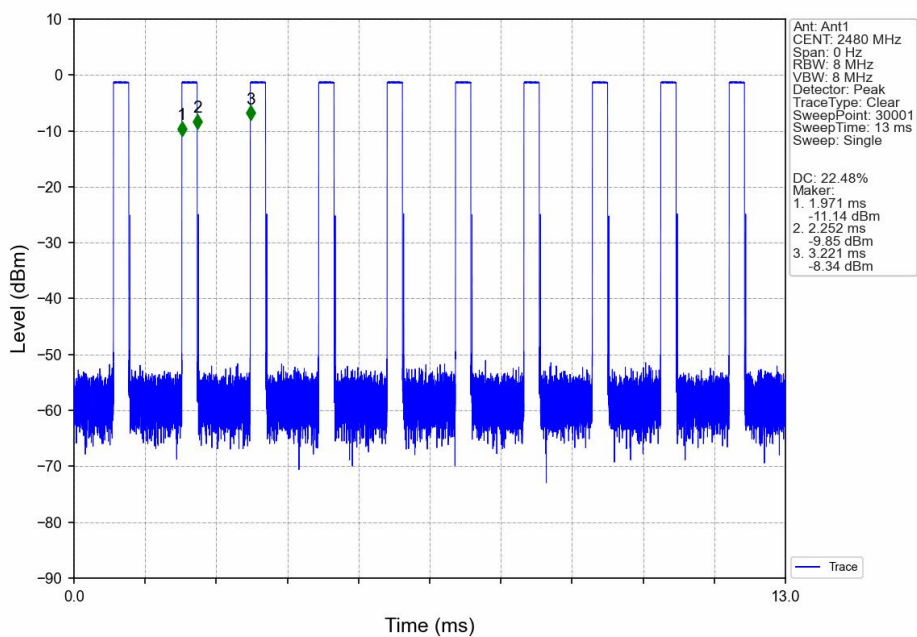
Scan code to check authenticity



2M_MCH_2440MHz_Ant4_NTNV



2M_HCH_2480MHz_Ant4_NTNV



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D.7 Unwanted Emissions In Restricted Frequency Bands

D.7 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
2M	SISO	2402	1	Refer To Test Graph		Pass
		2440	1	Refer To Test Graph		Pass
		2480	1	Refer To Test Graph		Pass

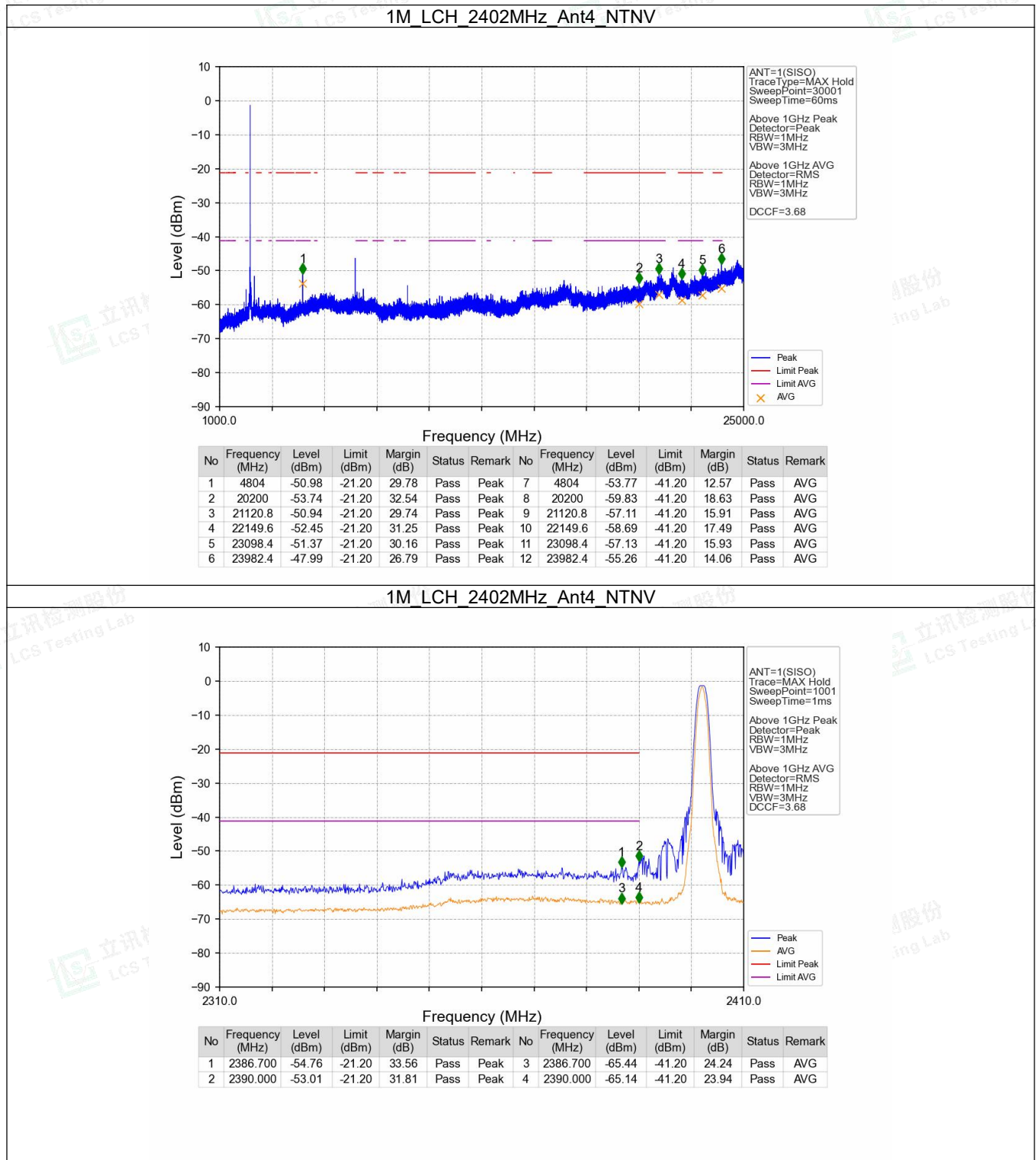


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7.2 Test Graph

7.2.1 RSE



Shenzhen LCS Compliance Testing Laboratory Ltd.

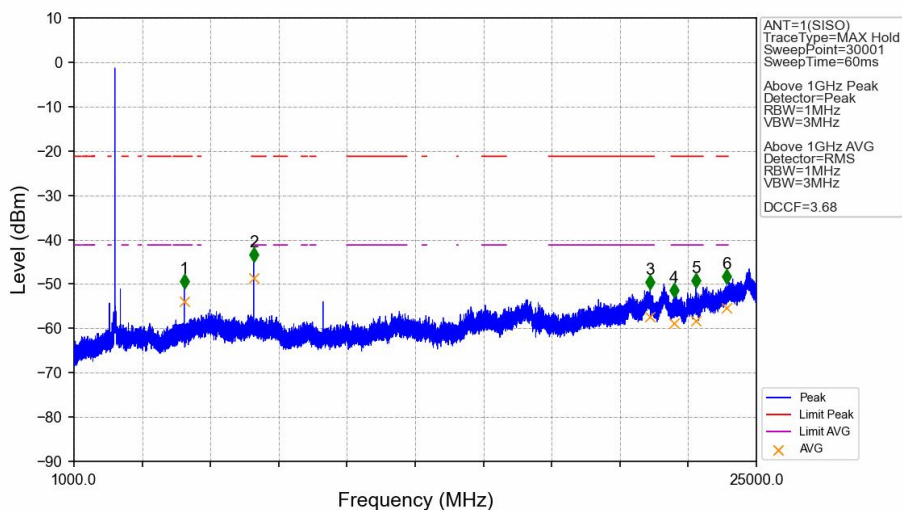
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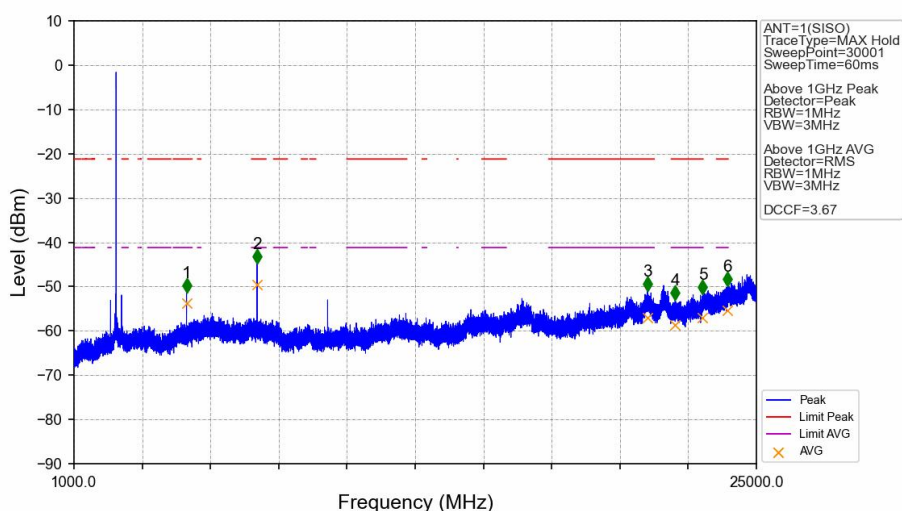


1M_MCH_2440MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4880	-50.93	-21.20	29.73	Pass	Peak	7	4880	-53.96	-41.20	12.76	Pass	AVG
2	7320.8	-45.02	-21.20	23.82	Pass	Peak	8	7320.8	-48.69	-41.20	7.49	Pass	AVG
3	21262.4	-51.15	-21.20	29.95	Pass	Peak	9	21262.4	-57.32	-41.20	16.12	Pass	AVG
4	22103.2	-52.97	-21.20	31.77	Pass	Peak	10	22103.2	-58.88	-41.20	17.68	Pass	AVG
5	22868.8	-50.80	-21.20	29.60	Pass	Peak	11	22868.8	-58.23	-41.20	17.03	Pass	AVG
6	23963.2	-49.92	-21.20	28.72	Pass	Peak	12	23963.2	-55.45	-41.20	14.25	Pass	AVG

1M_HCH_2480MHz_Ant4_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	-51.38	-21.20	30.18	Pass	Peak	7	4960	-53.81	-41.20	12.61	Pass	AVG
2	7440.8	-44.83	-21.20	23.63	Pass	Peak	8	7440.8	-49.53	-41.20	8.33	Pass	AVG
3	21169.6	-50.99	-21.20	29.79	Pass	Peak	9	21169.6	-57.07	-41.20	15.87	Pass	AVG
4	22140.8	-52.90	-21.20	31.70	Pass	Peak	10	22140.8	-58.76	-41.20	17.56	Pass	AVG
5	23112.8	-51.75	-21.20	30.55	Pass	Peak	11	23112.8	-57.10	-41.20	15.90	Pass	AVG
6	23980.8	-49.96	-21.20	28.76	Pass	Peak	12	23980.8	-55.33	-41.20	14.13	Pass	AVG



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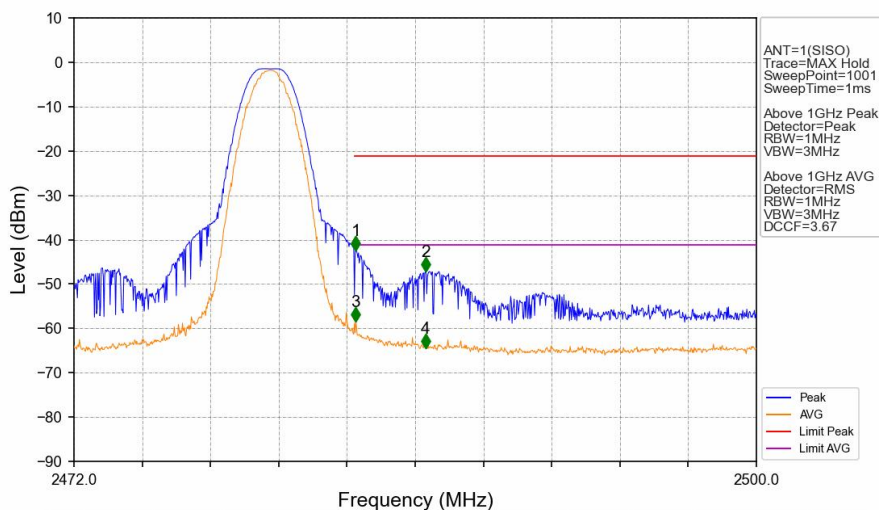
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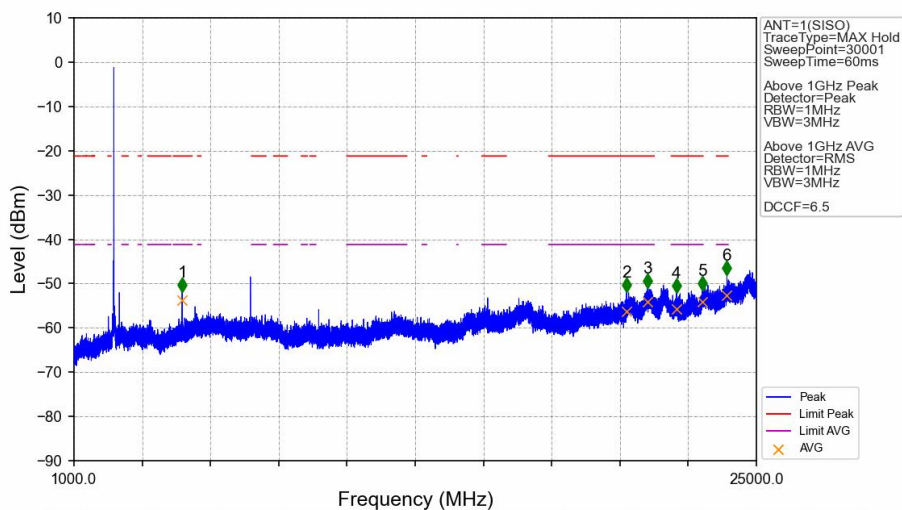


1M_HCH_2480MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2483.564	-42.45	-21.20	21.25	Pass	Peak	3	2483.564	-58.36	-41.20	17.16	Pass	AVG
2	2486.420	-47.19	-21.20	25.99	Pass	Peak	4	2486.420	-64.36	-41.20	23.16	Pass	AVG

2M_LCH_2402MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4804	-51.82	-21.20	30.62	Pass	Peak	7	4804	-53.81	-41.20	12.61	Pass	AVG
2	20434.4	-51.83	-21.20	30.63	Pass	Peak	8	20434.4	-56.32	-41.20	15.12	Pass	AVG
3	21160	-50.94	-21.20	29.74	Pass	Peak	9	21160	-54.17	-41.20	12.97	Pass	AVG
4	22192.8	-52.05	-21.20	30.85	Pass	Peak	10	22192.8	-55.84	-41.20	14.64	Pass	AVG
5	23108	-51.43	-21.20	30.23	Pass	Peak	11	23108	-54.20	-41.20	13.00	Pass	AVG
6	23964	-48.12	-21.20	26.92	Pass	Peak	12	23964	-52.72	-41.20	11.52	Pass	AVG



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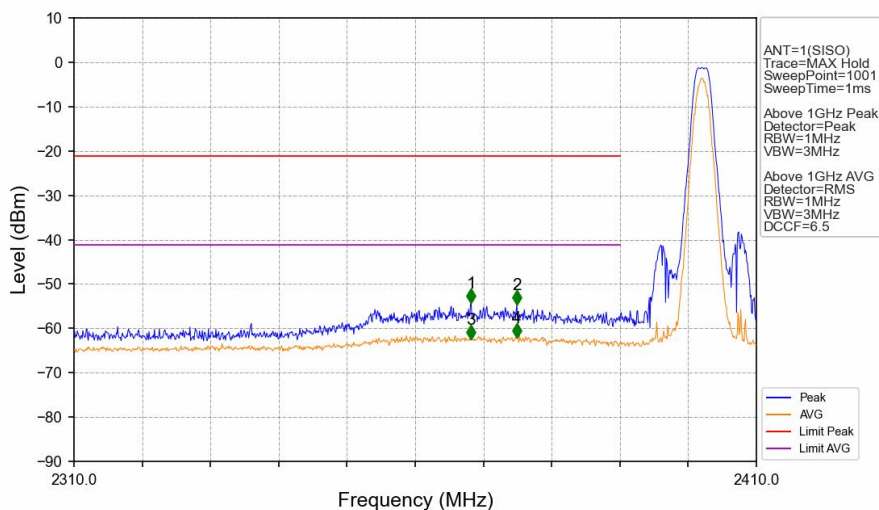
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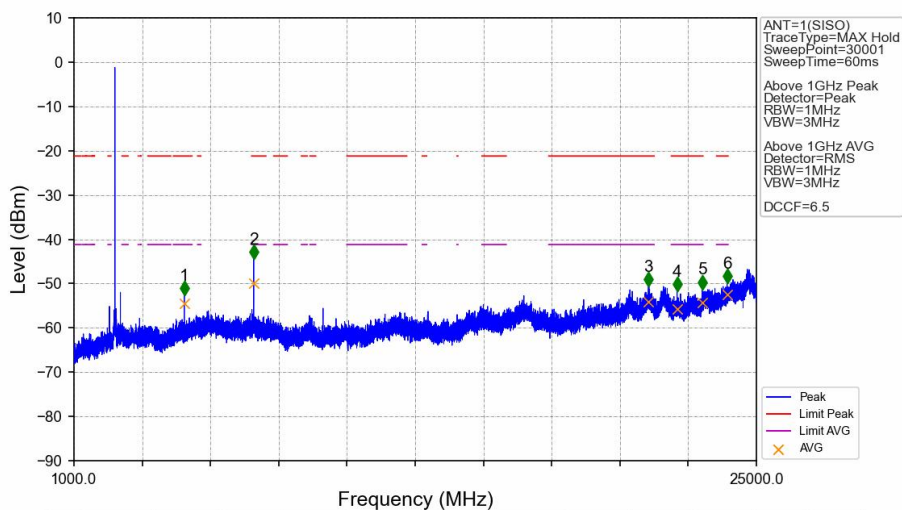


2M_LCH_2402MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2368.200	-54.18	-21.20	32.98	Pass	Peak	3	2368.200	-62.37	-41.20	21.17	Pass	AVG
2	2374.900	-54.66	-21.20	33.46	Pass	Peak	4	2374.900	-62.00	-41.20	20.80	Pass	AVG

2M_MCH_2440MHz_Ant4_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	-52.54	-21.20	31.34	Pass	Peak	7	4880.8	-54.41	-41.20	13.21	Pass	AVG
2	7320	-44.35	-21.20	23.15	Pass	Peak	8	7320	-49.87	-41.20	8.67	Pass	AVG
3	21202.4	-50.64	-21.20	29.44	Pass	Peak	9	21202.4	-54.11	-41.20	12.91	Pass	AVG
4	22210.4	-51.64	-21.20	30.44	Pass	Peak	10	22210.4	-55.77	-41.20	14.57	Pass	AVG
5	23093.6	-51.24	-21.20	30.04	Pass	Peak	11	23093.6	-54.36	-41.20	13.16	Pass	AVG
6	23969.6	-49.94	-21.20	28.74	Pass	Peak	12	23969.6	-52.45	-41.20	11.25	Pass	AVG



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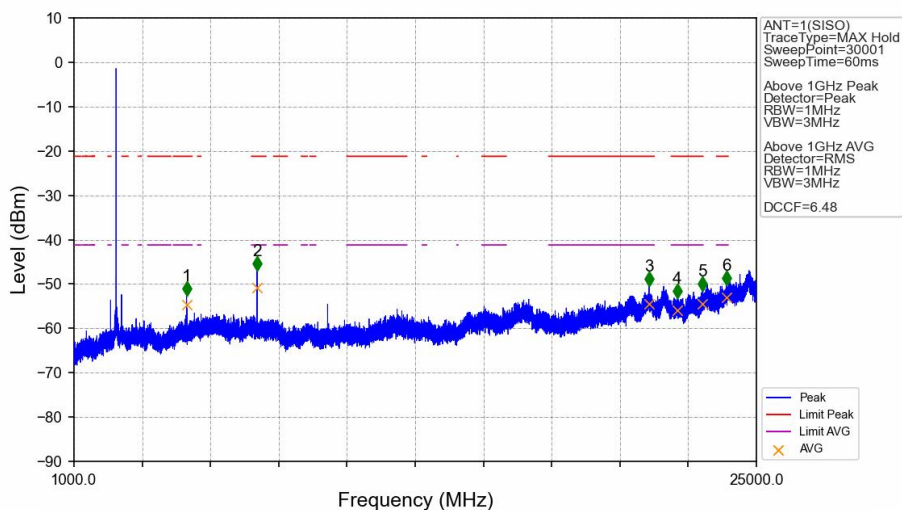
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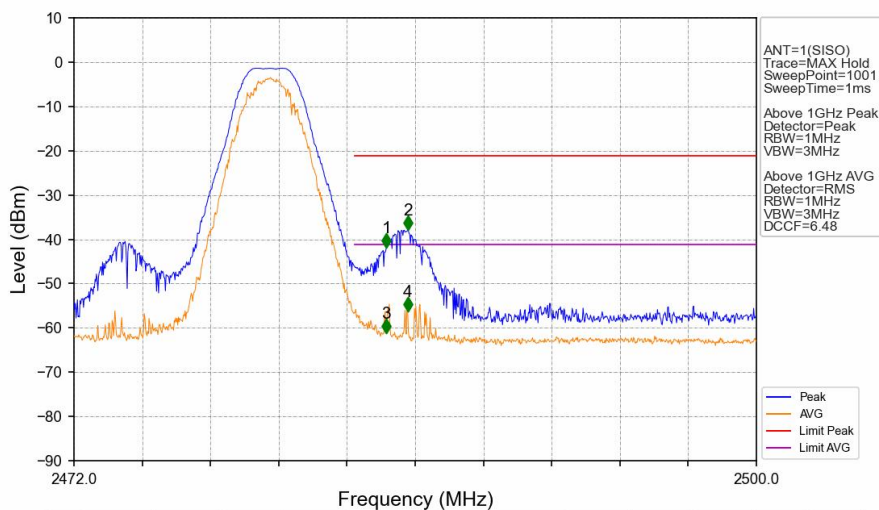


2M_HCH_2480MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	4960.8	-52.54	-21.20	31.34	Pass	Peak	7	4960.8	-54.62	-41.20	13.42	Pass	AVG
2	7441.6	-46.98	-21.20	25.78	Pass	Peak	8	7441.6	-50.86	-41.20	9.66	Pass	AVG
3	21225.6	-50.41	-21.20	29.20	Pass	Peak	9	21225.6	-54.41	-41.20	13.21	Pass	AVG
4	22209.6	-53.14	-21.20	31.94	Pass	Peak	10	22209.6	-55.94	-41.20	14.74	Pass	AVG
5	23102.4	-51.46	-21.20	30.26	Pass	Peak	11	23102.4	-54.39	-41.20	13.19	Pass	AVG
6	23938.4	-50.32	-21.20	29.12	Pass	Peak	12	23938.4	-52.94	-41.20	11.74	Pass	AVG

2M_HCH_2480MHz_Ant4_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	2484.824	-41.78	-21.20	20.58	Pass	Peak	3	2484.824	-61.08	-41.20	19.88	Pass	AVG
2	2485.692	-37.93	-21.20	16.73	Pass	Peak	4	2485.692	-56.16	-41.20	14.96	Pass	AVG



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