



Shenzhen CTL Testing Technology Co., Ltd.

Fl. A1, Bldg. A3, No. 2533 GuanGuang Road, Fenghuang Community

Fenghuang Street, Guangming District Shenzhen, Guangdong, People' s Republic of China

Tel: +86-755-89486194 E-mail: ctl@ctl-lab.com

Annex for Bluetooth Low Energy

Test Report No.: CTL2601202048-WF01

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FCC ID: 2BFCV-FACE2AI

1. Bandwidth

1.1 Test Result

1.1.1 OBW

Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.999	/	Pass
		2440	1	1.000	/	Pass
		2480	1	1.001	/	Pass
2M	SISO	2402	1	1.985	/	Pass
		2440	1	1.995	/	Pass
		2480	1	2.008	/	Pass

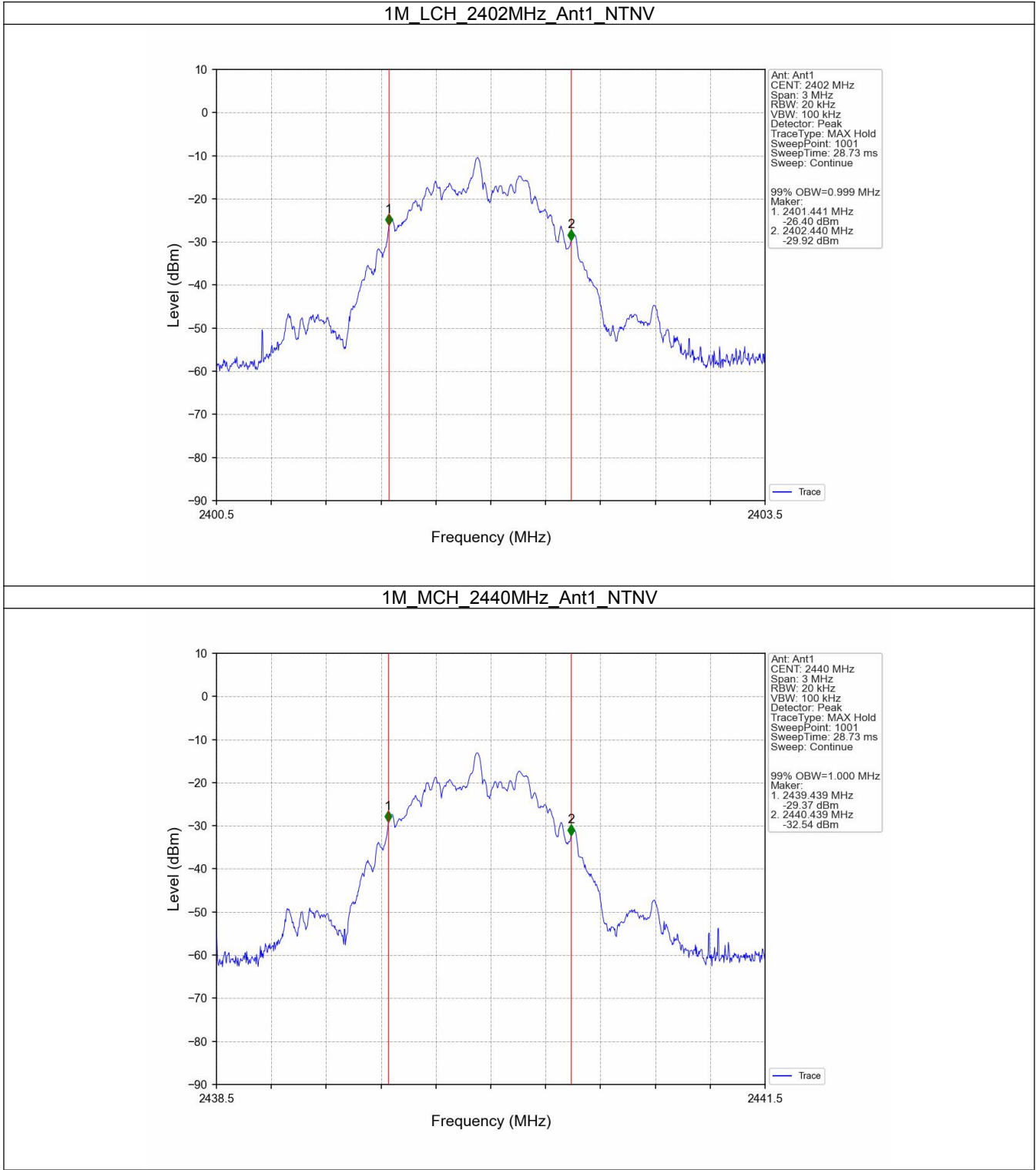
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.677	≥ 0.5	Pass
		2440	1	0.668	≥ 0.5	Pass
		2480	1	0.674	≥ 0.5	Pass
2M	SISO	2402	1	1.152	≥ 0.5	Pass
		2440	1	1.168	≥ 0.5	Pass
		2480	1	1.165	≥ 0.5	Pass

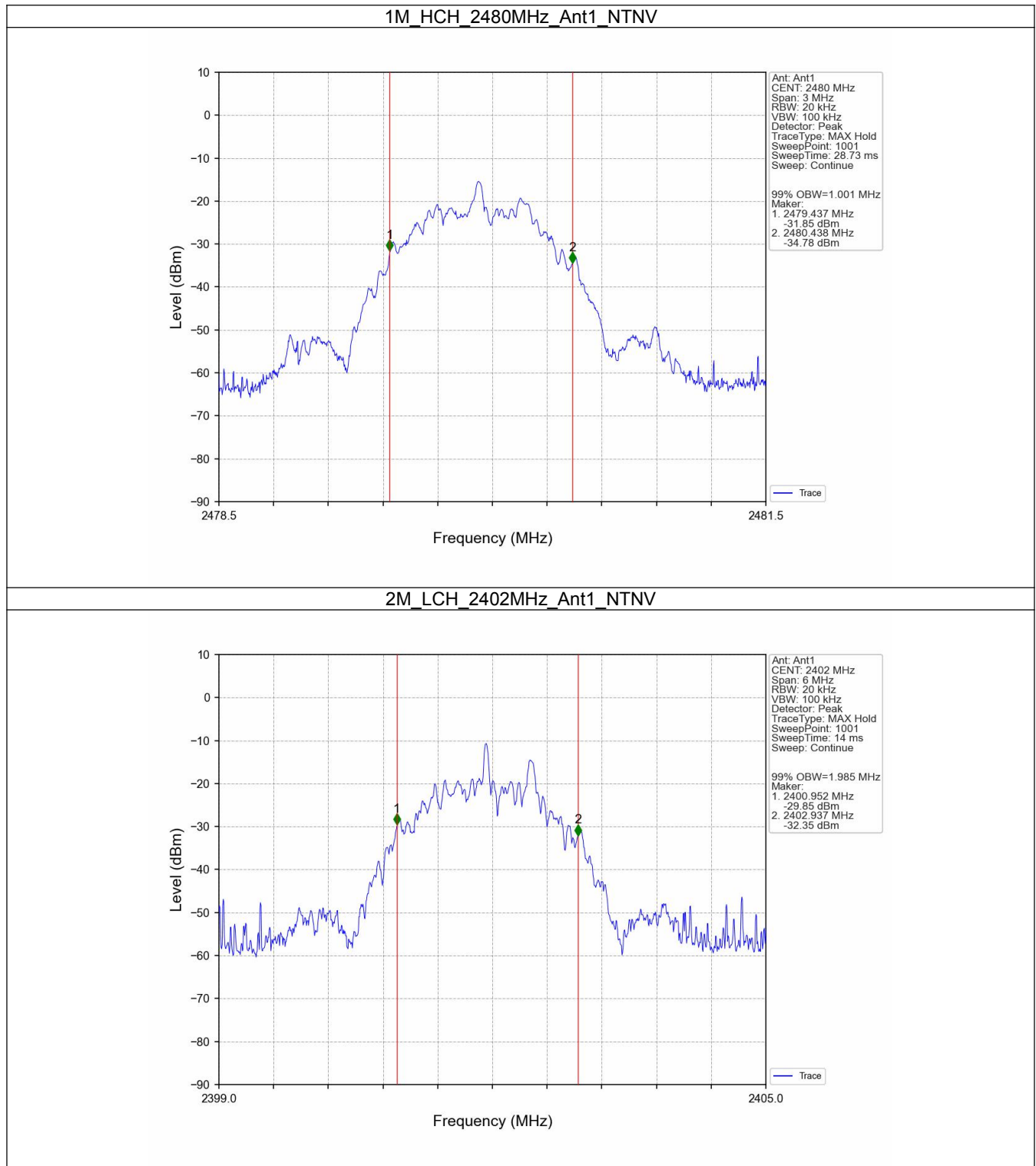
FCC ID: 2BFCV-FACE2AI

1.2 Test Graph

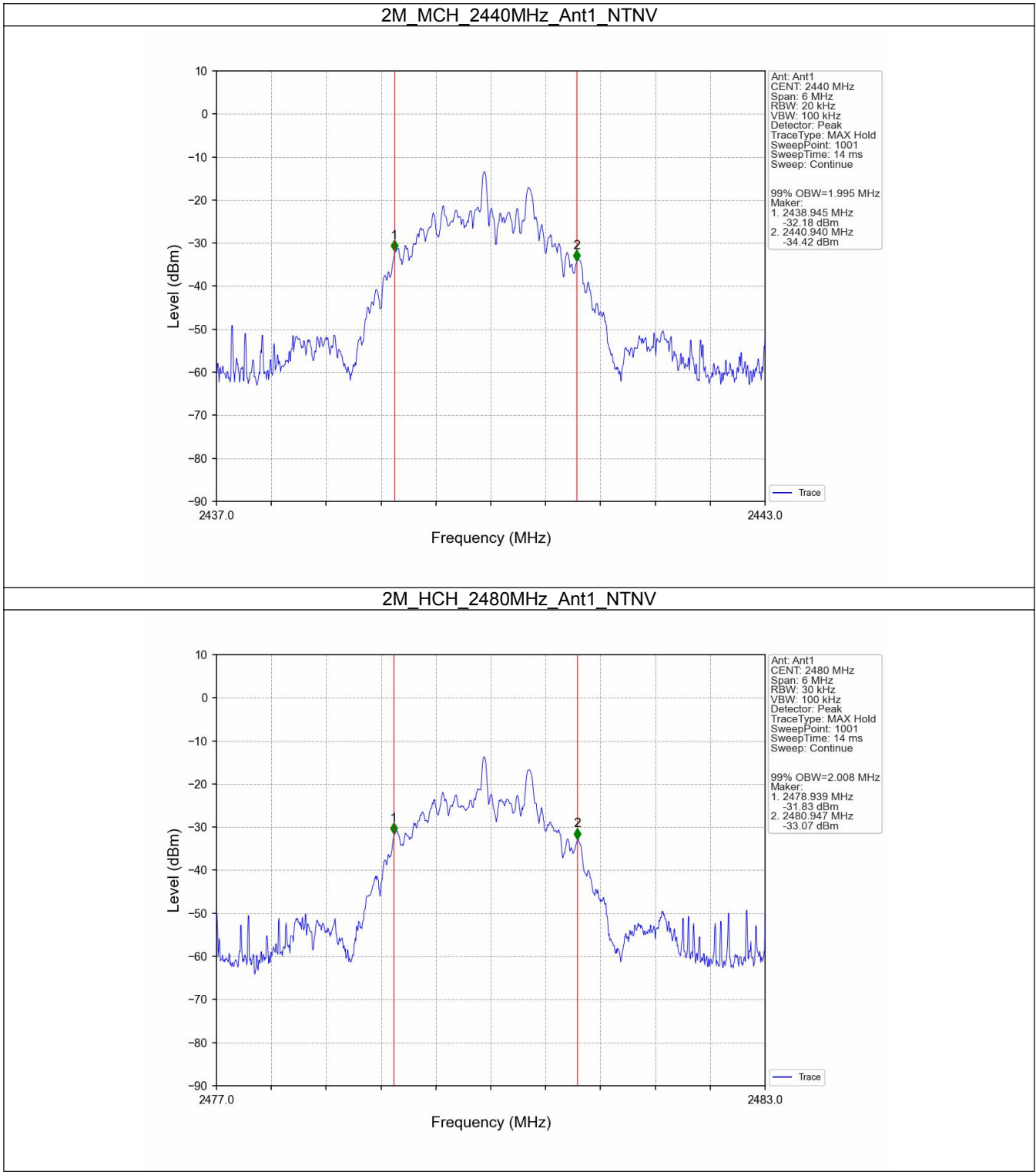
1.2.1 OBW



FCC ID: 2BFCV-FACE2AI

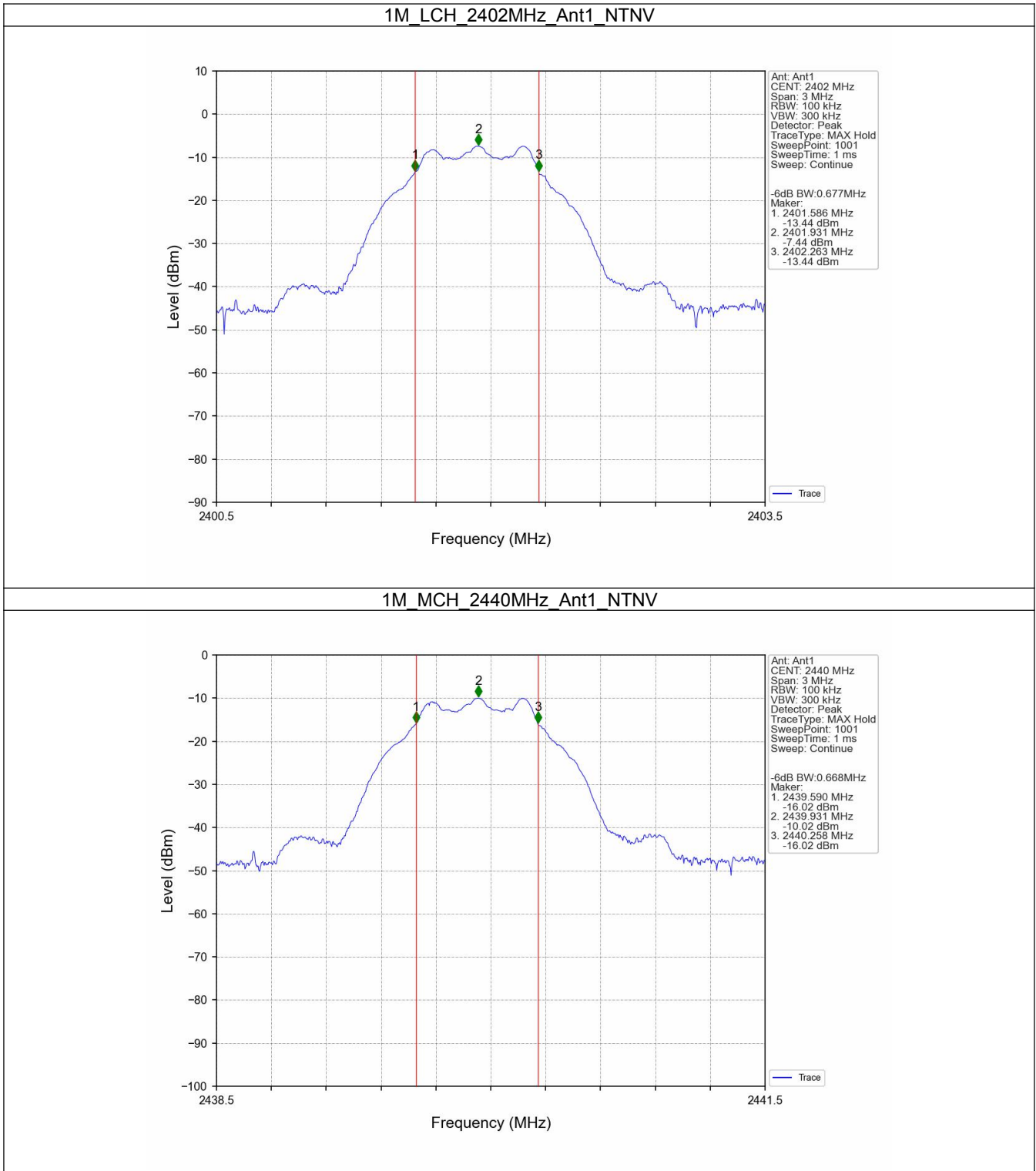


FCC ID: 2BFCV-FACE2AI

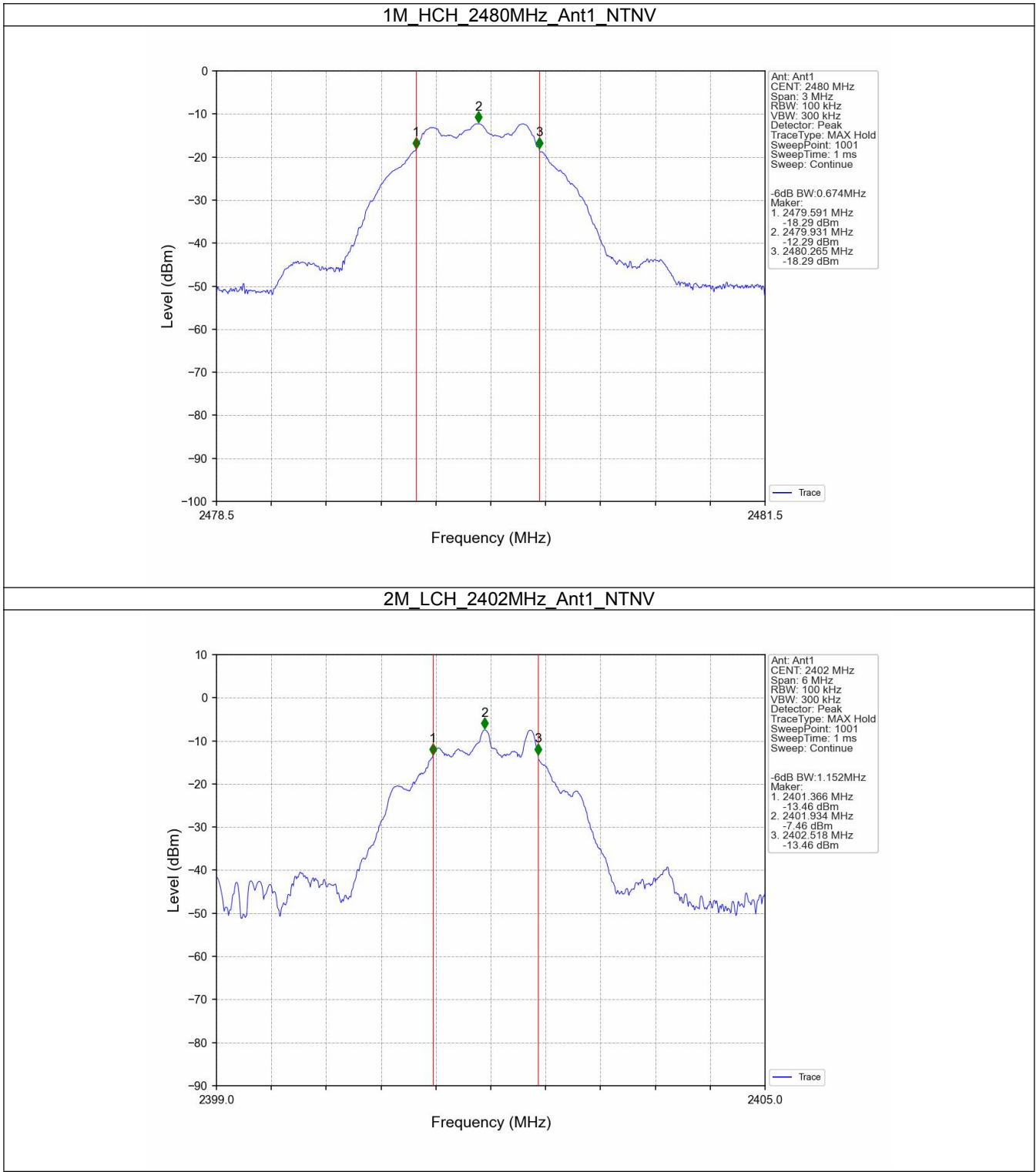


FCC ID: 2BFCV-FACE2AI

1.2.2 6dB BW

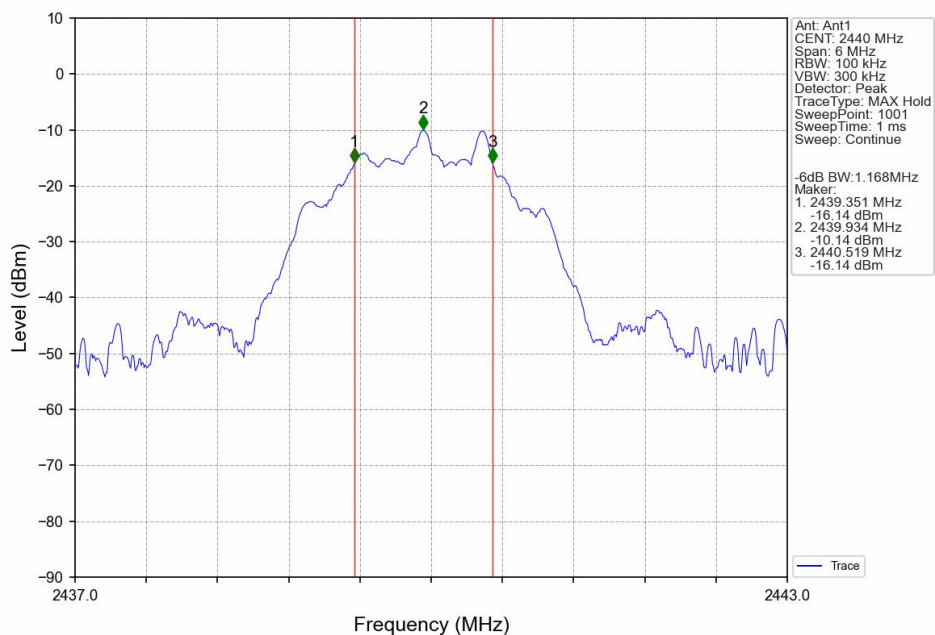


FCC ID: 2BFCV-FACE2AI

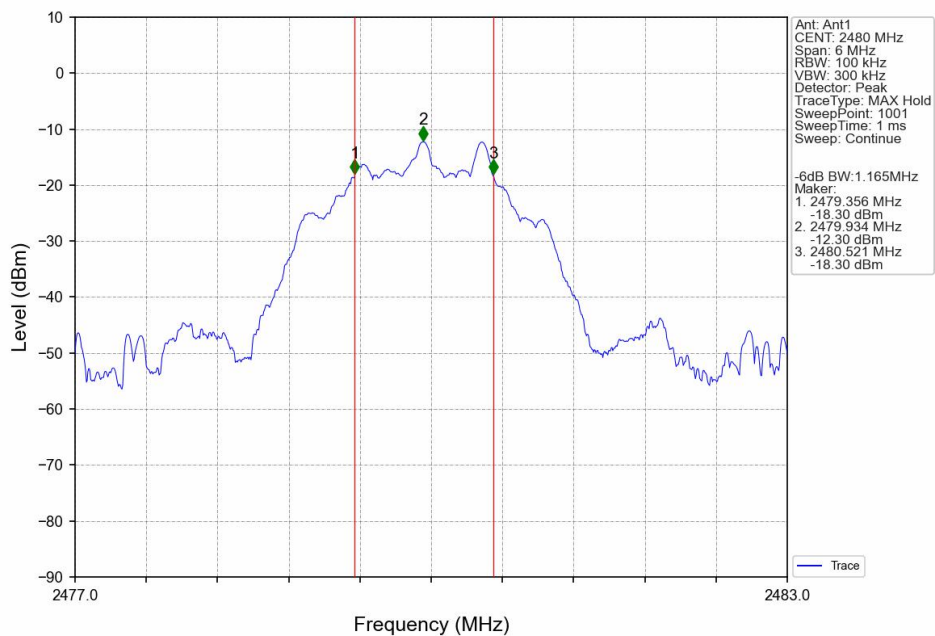


FCC ID: 2BFCV-FACE2AI

2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



FCC ID: 2BFCV-FACE2AI

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

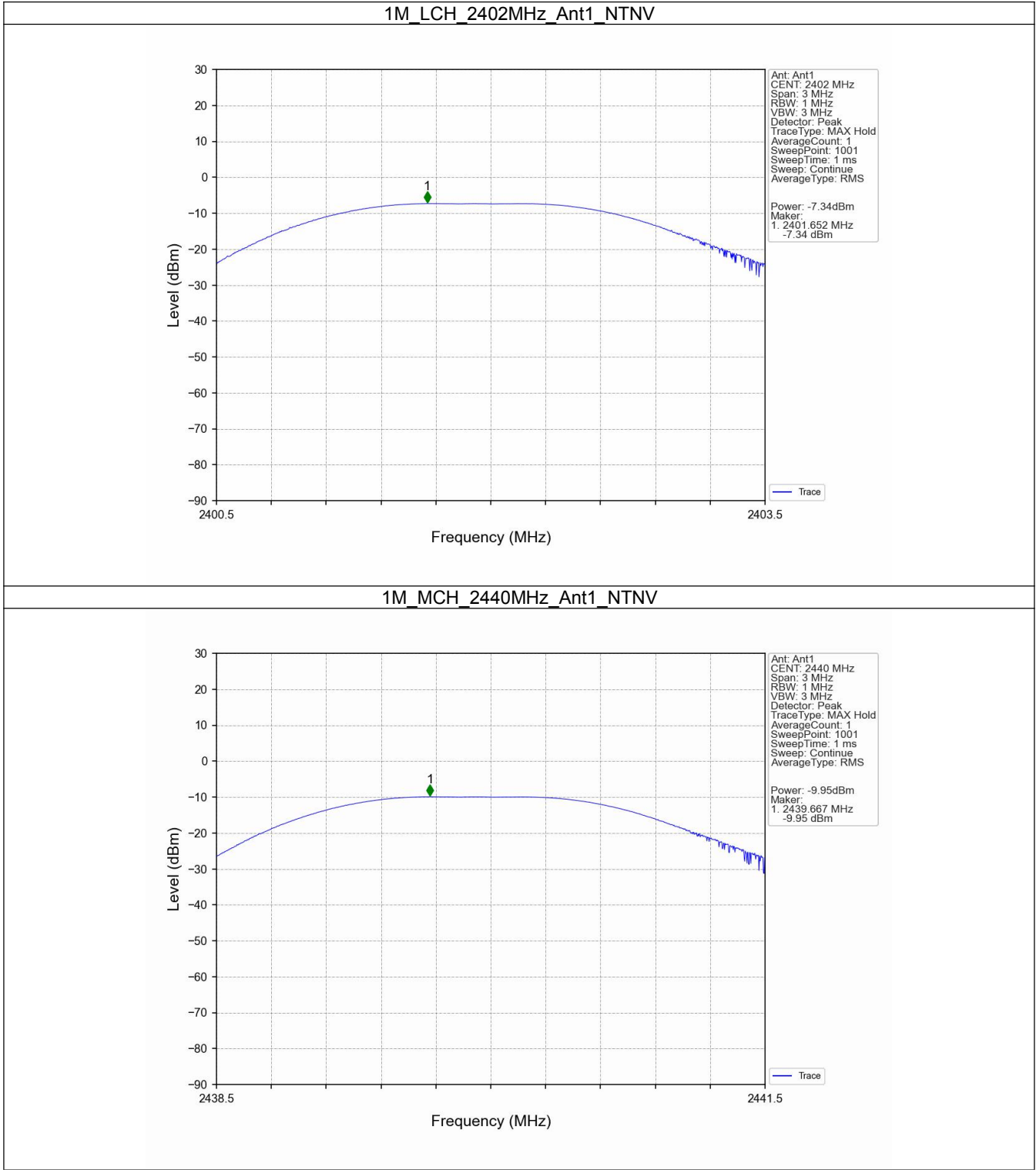
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-7.34	<=30	Pass
		2440	-9.95	<=30	Pass
		2480	-12.21	<=30	Pass
2M	SISO	2402	-7.39	<=30	Pass
		2440	-10.04	<=30	Pass
		2480	-12.22	<=30	Pass

Note1: Antenna Gain: Ant1: 5.15dBi;

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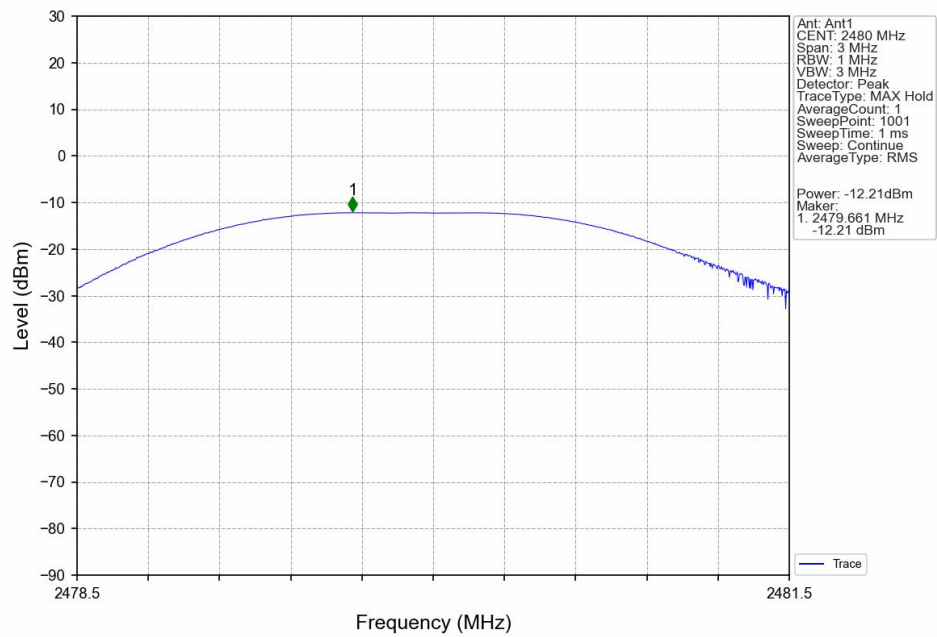
2.2 Test Graph

2.2.1 Power

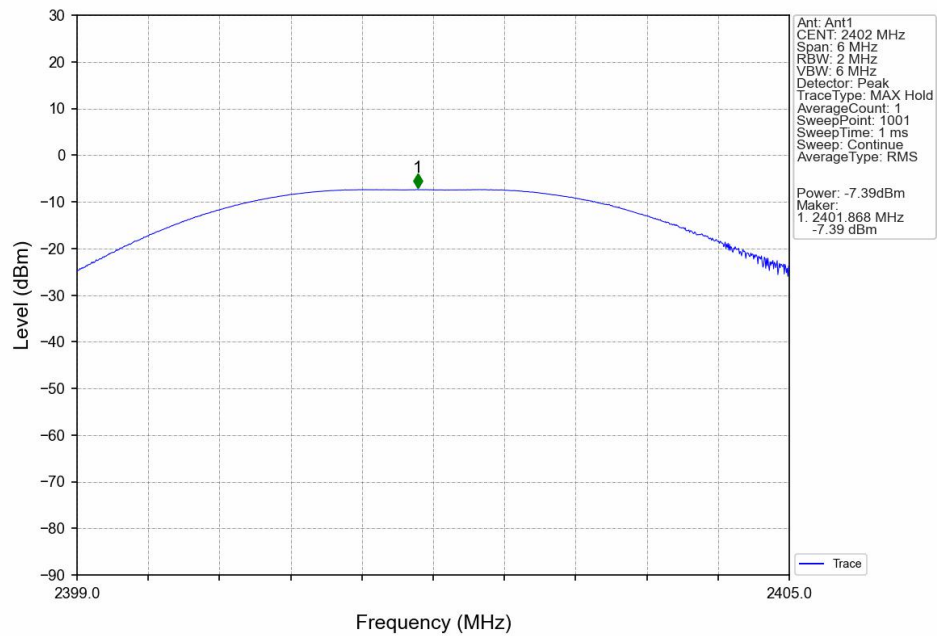


FCC ID: 2BFCV-FACE2AI

1M_HCH_2480MHz_Ant1_NTNV

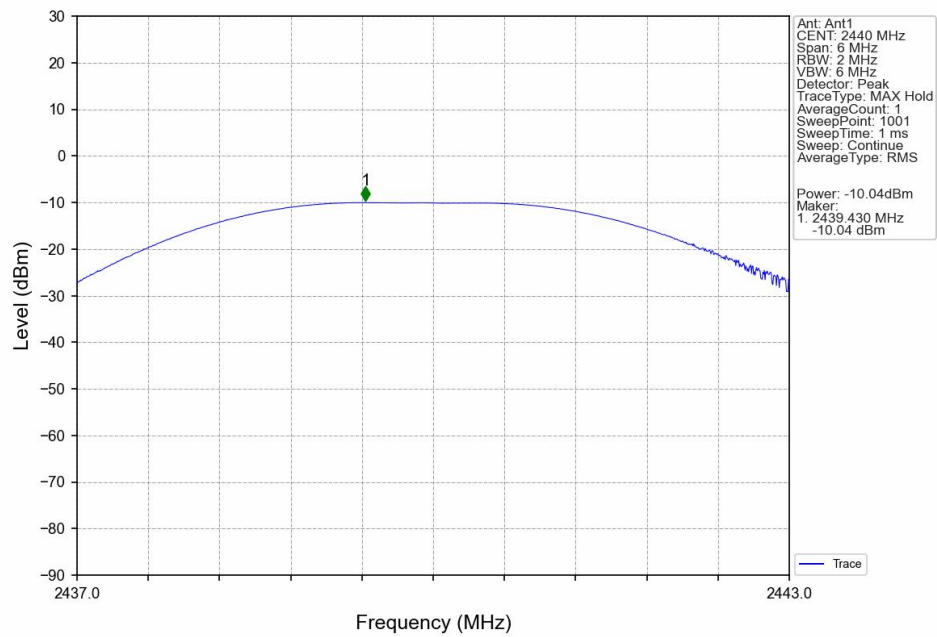


2M_LCH_2402MHz_Ant1_NTNV

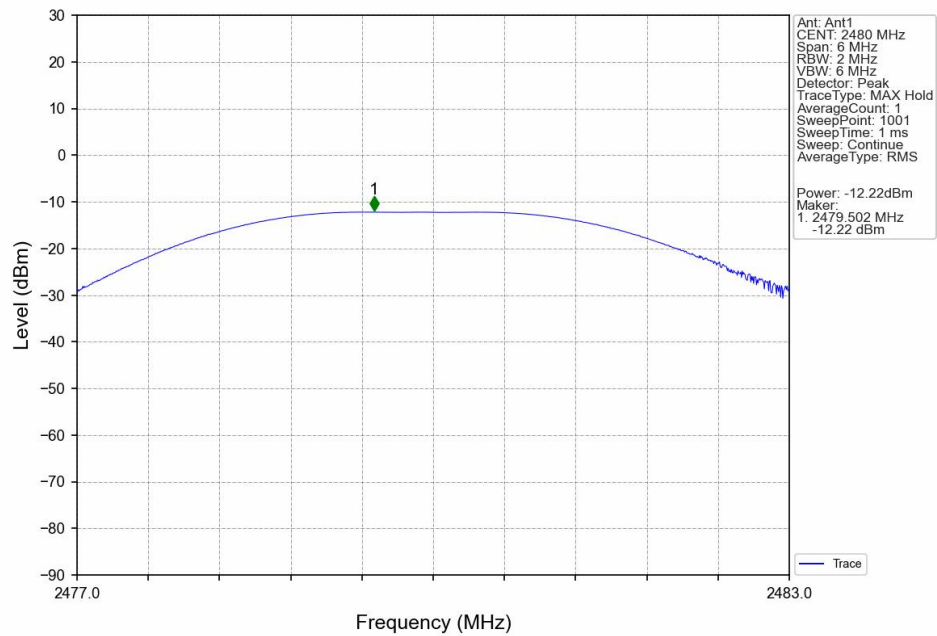


FCC ID: 2BFCV-FACE2AI

2M_MCH_2440MHz_Ant1_NTNV



2M_HCH_2480MHz_Ant1_NTNV



FCC ID: 2BFCV-FACE2AI

3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

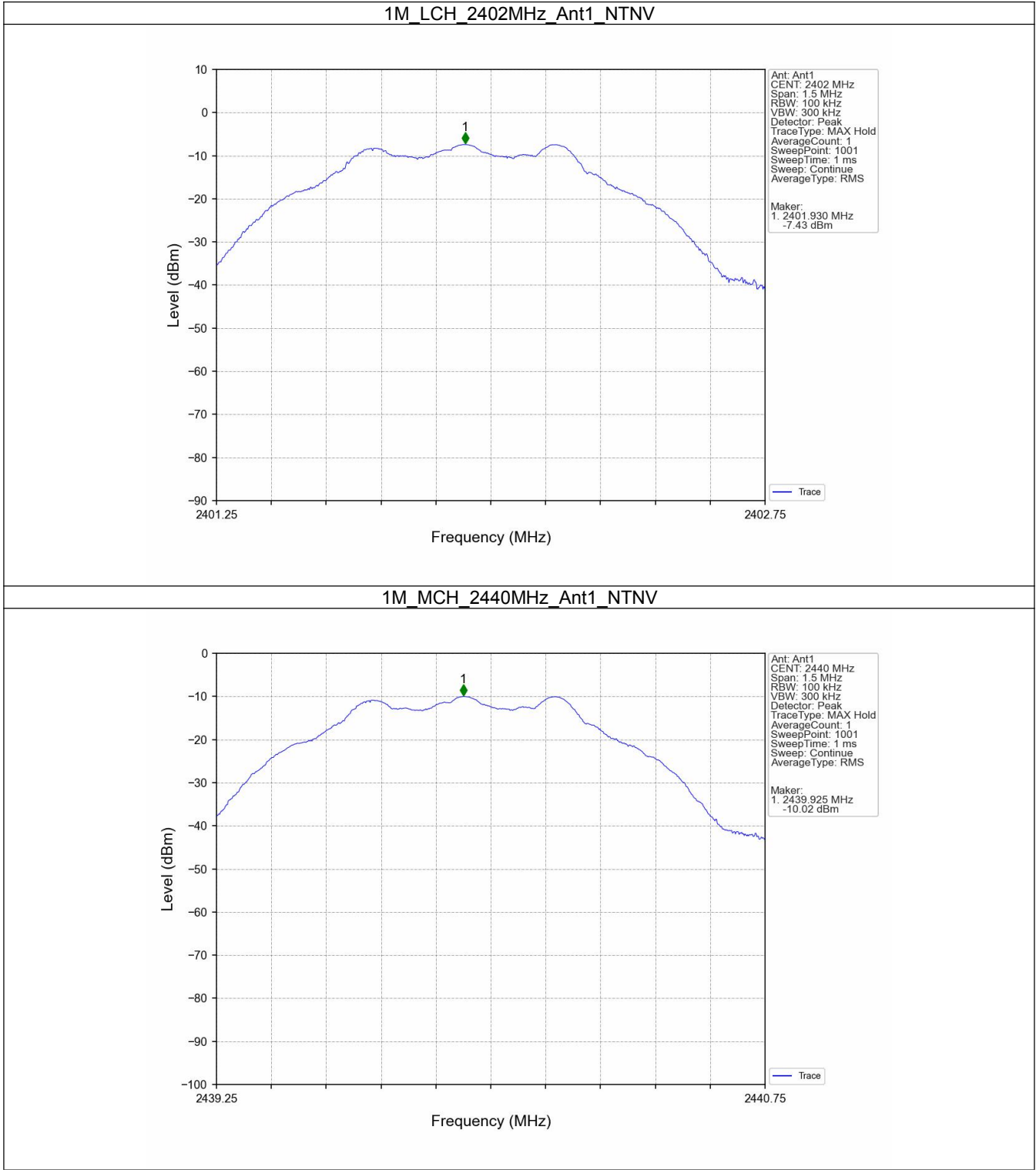
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-7.43	<=8	Pass
		2440	-10.02	<=8	Pass
		2480	-12.31	<=8	Pass
2M	SISO	2402	-7.51	<=8	Pass
		2440	-10.18	<=8	Pass
		2480	-12.32	<=8	Pass

Note1: Antenna Gain: Ant1: 5.15dBi;

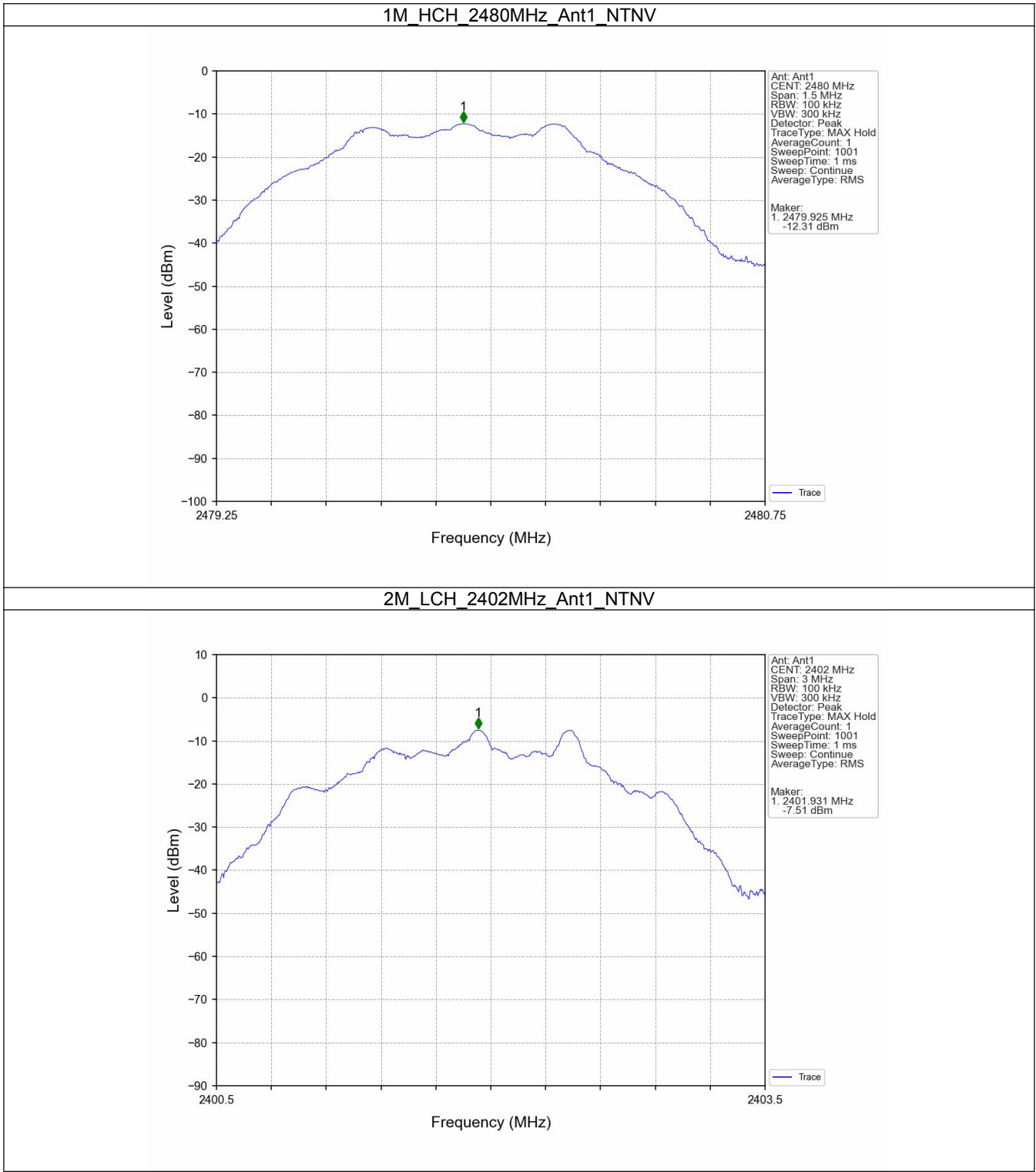
FCC ID: 2BFCV-FACE2AI

3.2 Test Graph

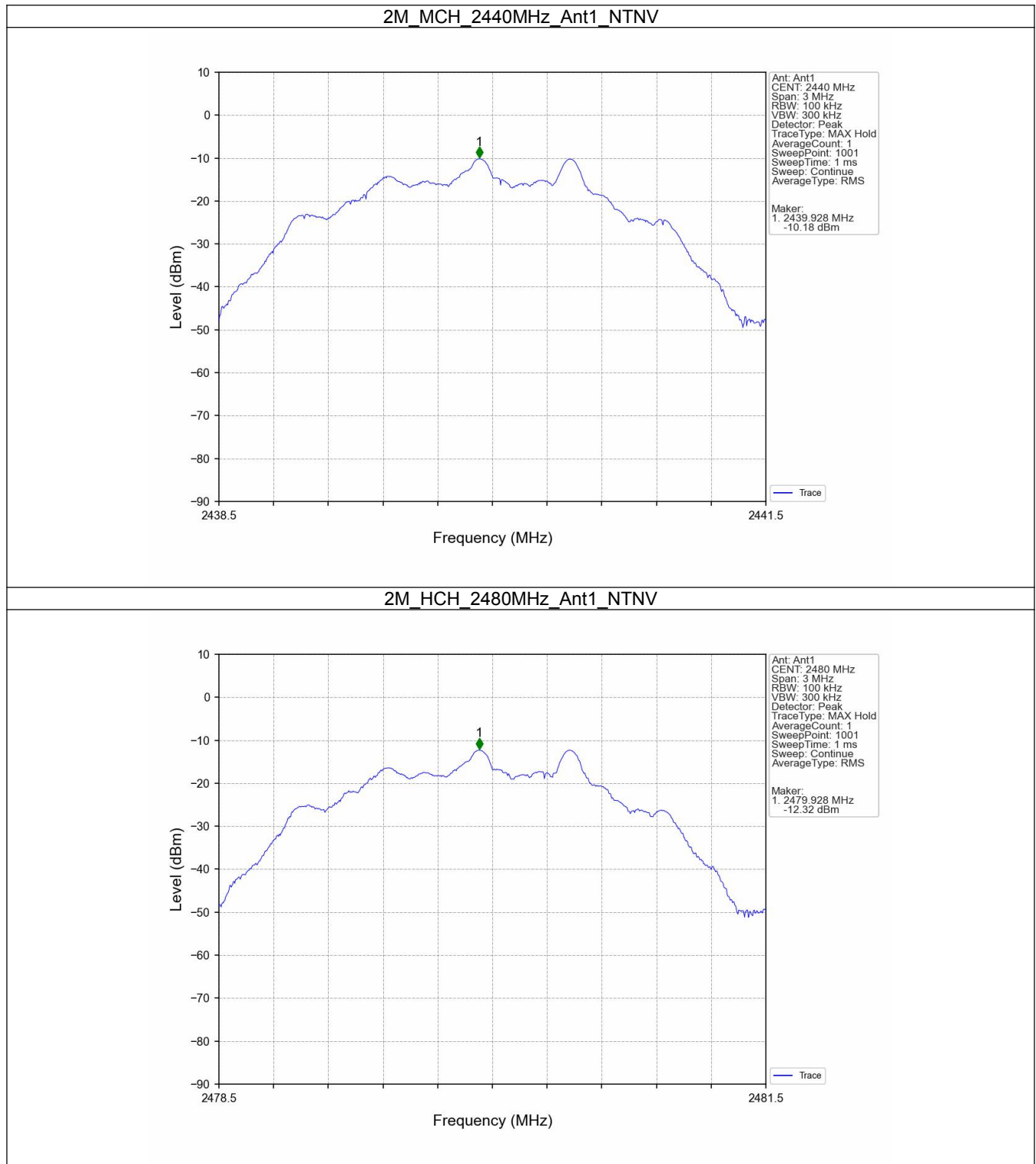
3.2.1 PSD



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FCC ID: 2BFCV-FACE2AI

4. Unwanted Emissions In Non-restricted Frequency Bands

4.1 Test Result

4.1.1 Ref

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
1M	SISO	2402	1	-7.44
		2440	1	-10.02
		2480	1	-12.29
2M	SISO	2402	1	-7.53
		2440	1	-10.19
		2480	1	-12.32

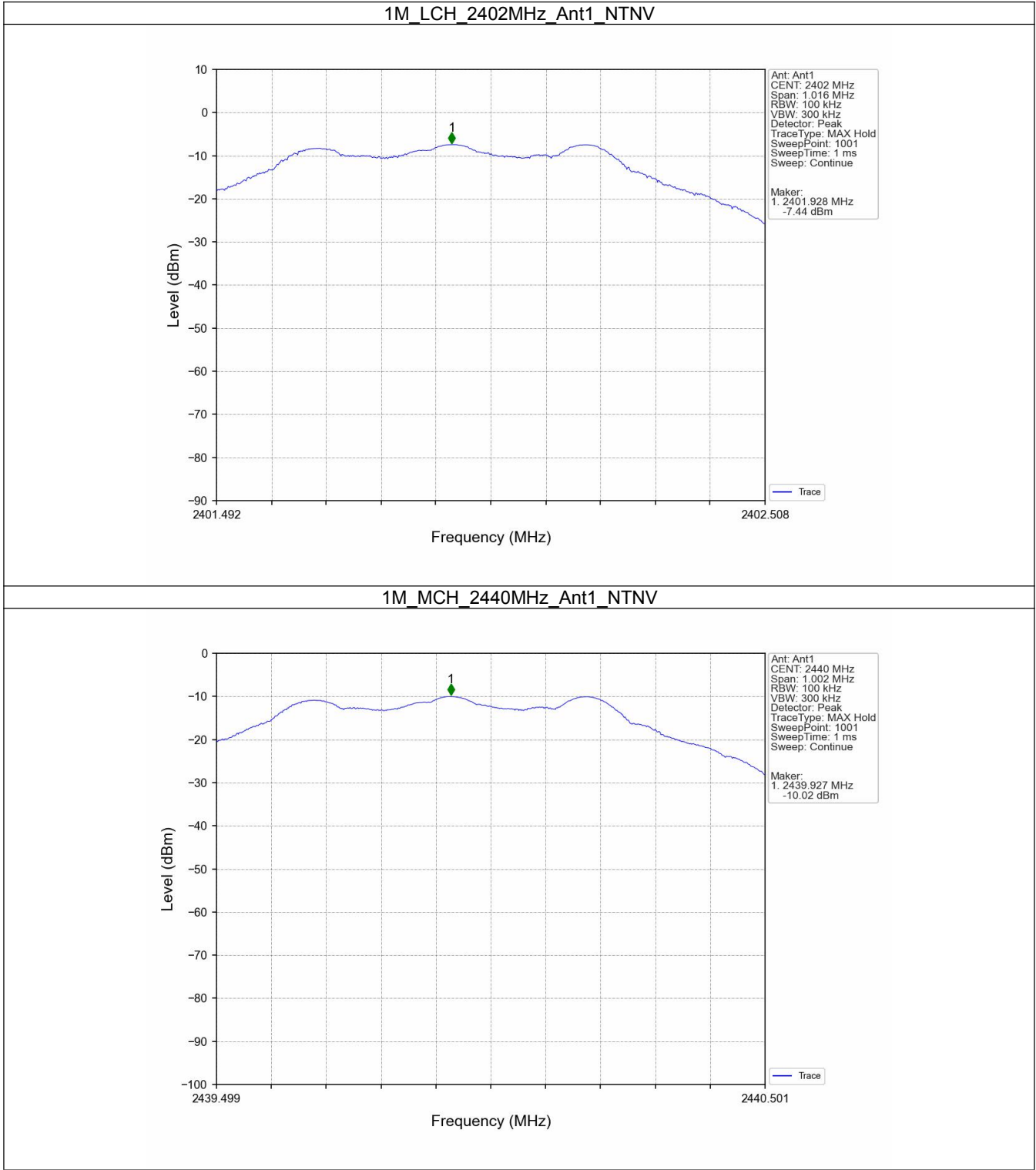
4.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-7.44	-27.44	Pass
		2440	1	-7.44	-27.44	Pass
		2480	1	-7.44	-27.44	Pass
2M	SISO	2402	1	-7.53	-27.53	Pass
		2440	1	-7.53	-27.53	Pass
		2480	1	-7.53	-27.53	Pass

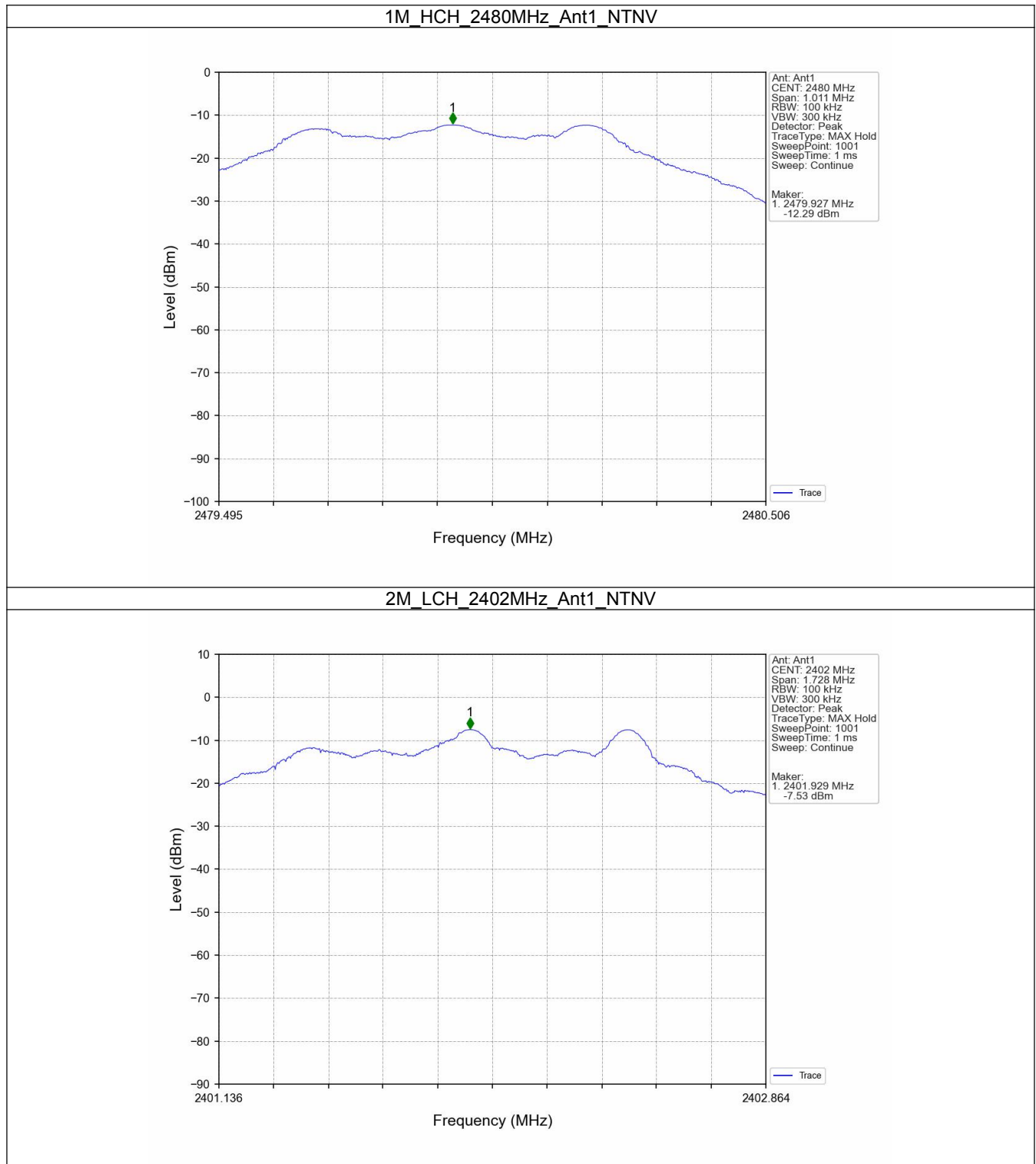
FCC ID: 2BFCV-FACE2AI

4.2 Test Graph

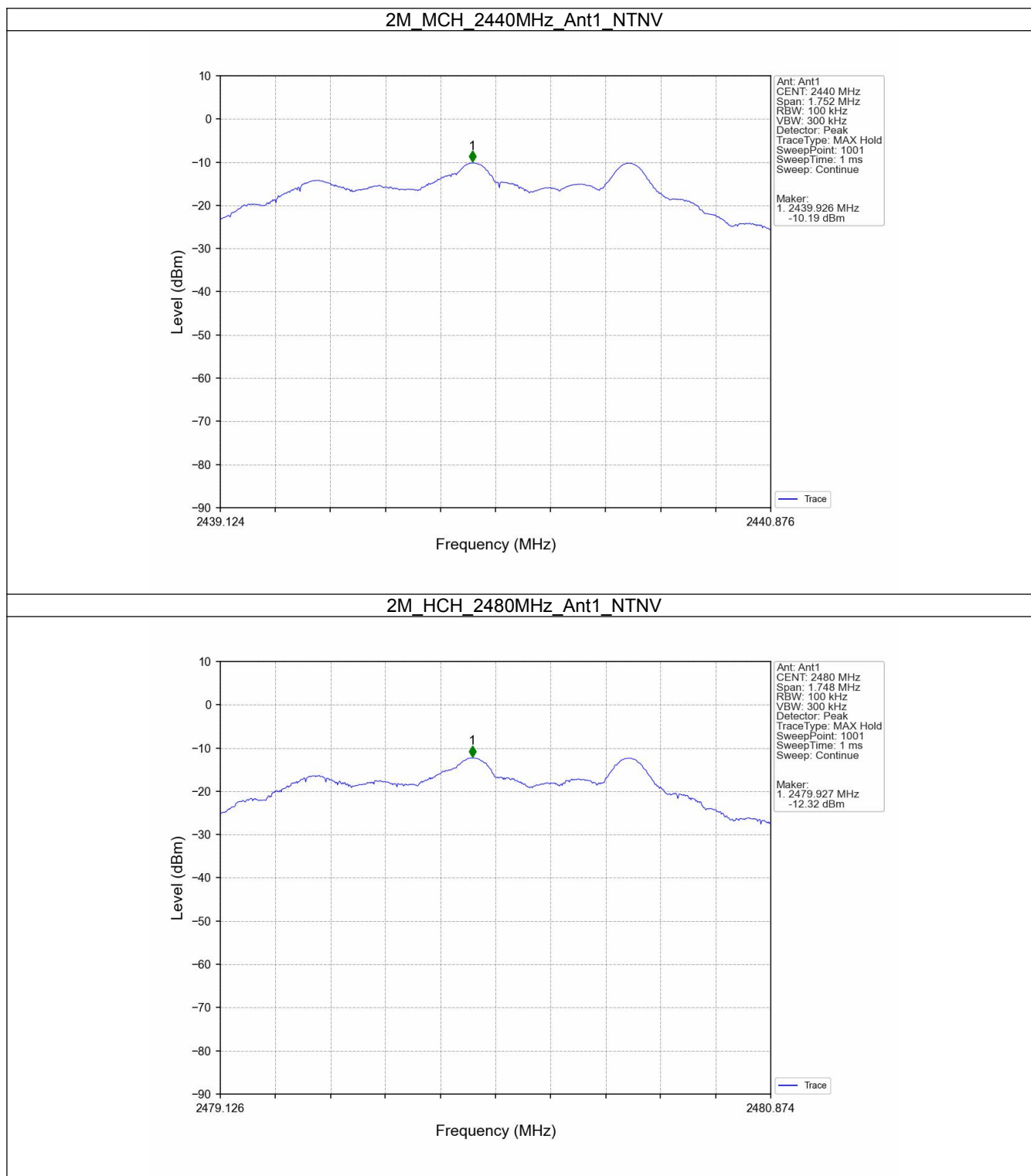
4.2.1 Ref



FCC ID: 2BFCV-FACE2AI

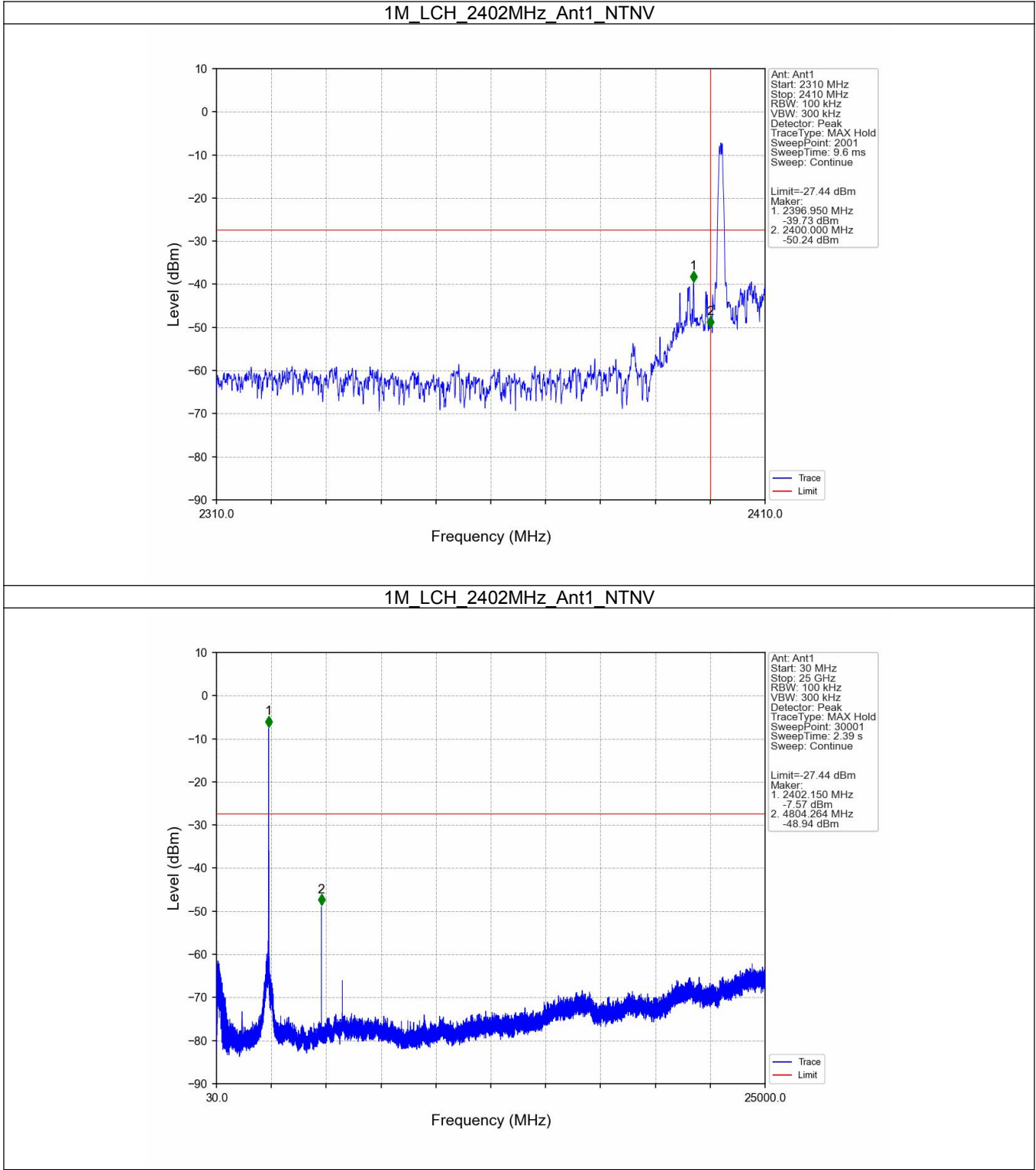


FCC ID: 2BFCV-FACE2AI

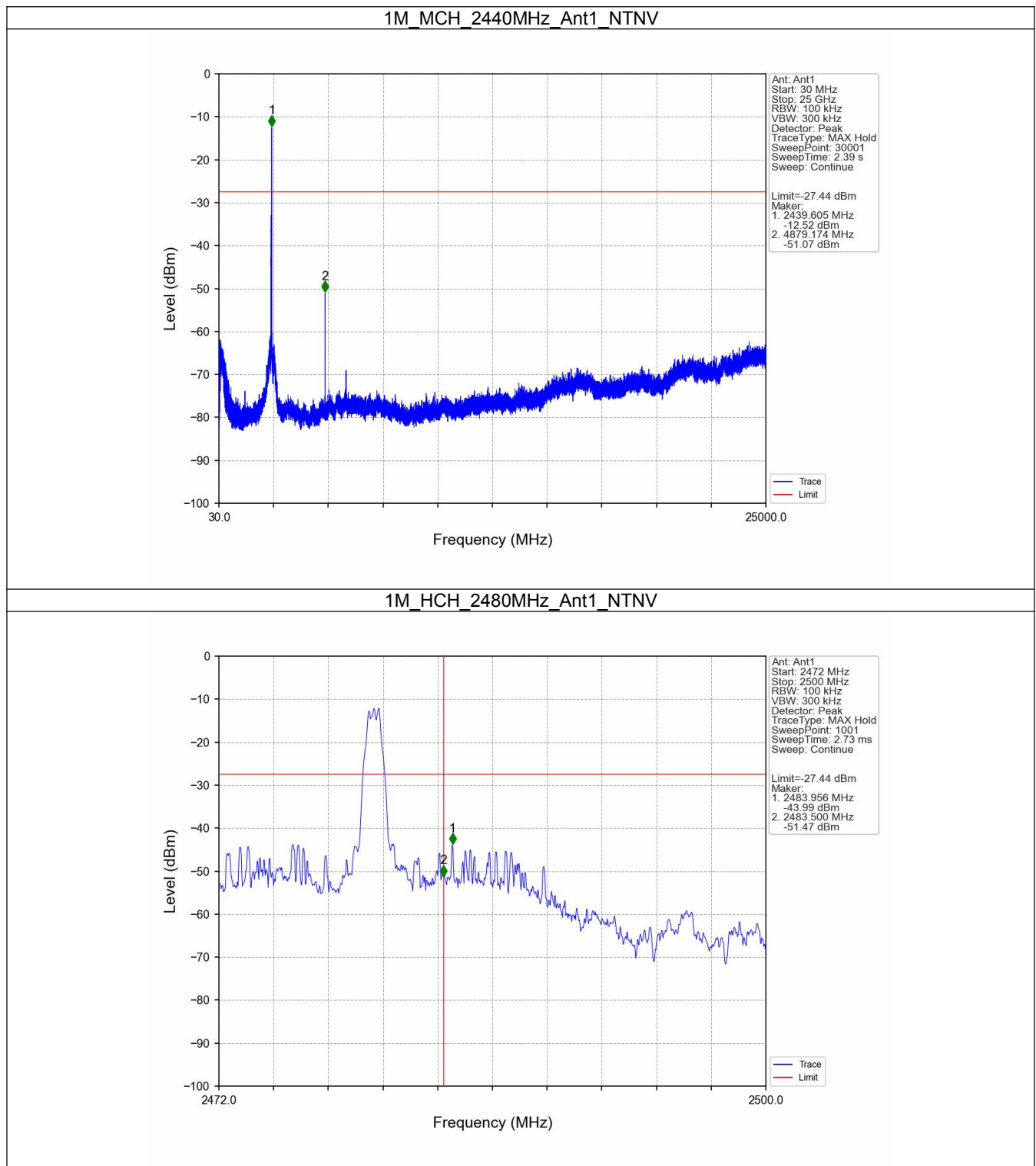


FCC ID: 2BFCV-FACE2AI

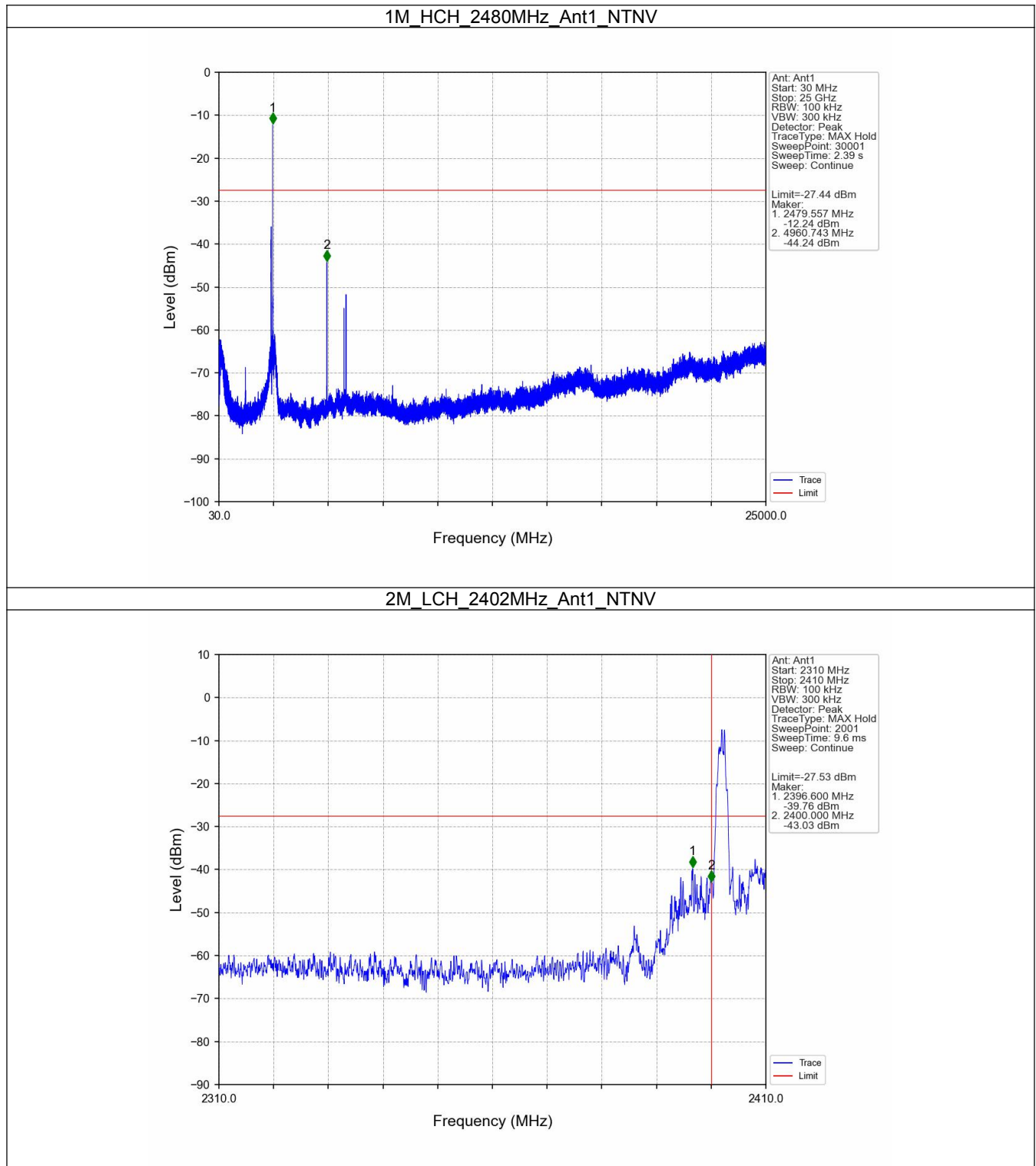
4.2.2 CSE



FCC ID: 2BFCV-FACE2AI

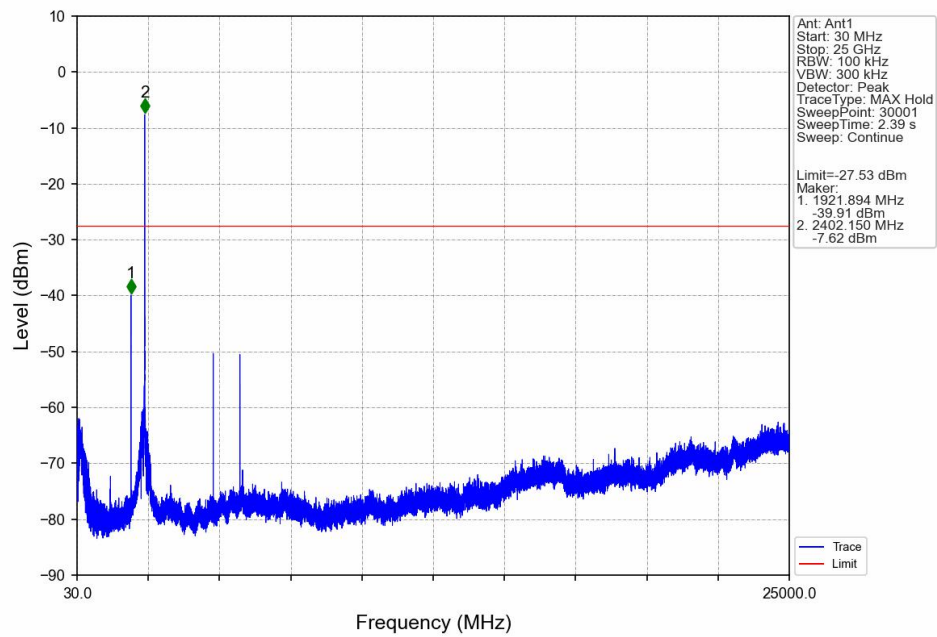


FCC ID: 2BFCV-FACE2AI

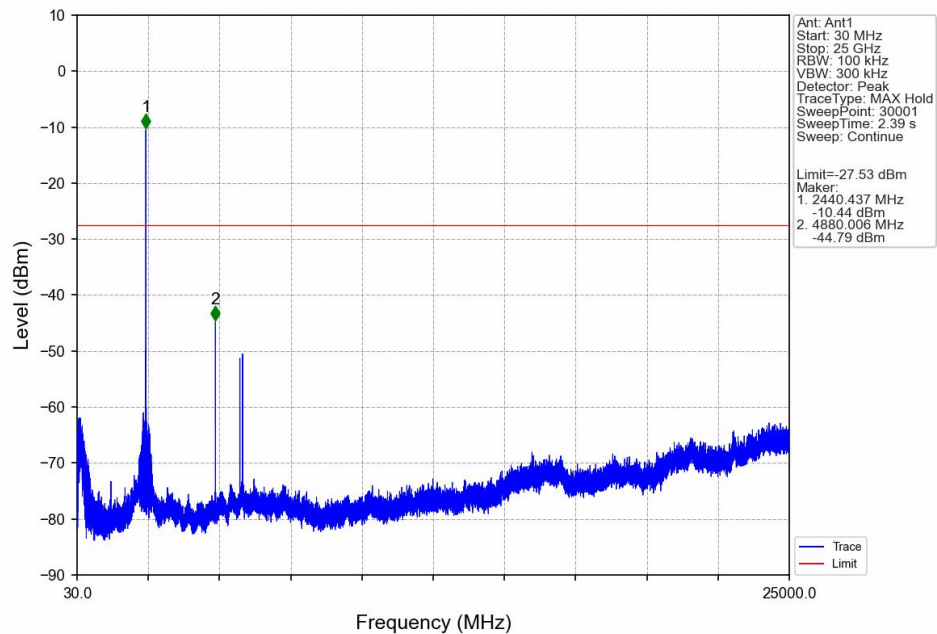


FCC ID: 2BFCV-FACE2AI

2M_LCH_2402MHz_Ant1_NTNV



2M_MCH_2440MHz_Ant1_NTNV



FCC ID: 2BFCV-FACE2AI

