

Annex for BLE**Test Report No.: CTL2406131031-WF02****TABLE OF CONTENTS**

1. Bandwidth	3
1.1 Test Result	3
1.1.1 OBW	3
1.1.2 6dB BW	3
1.2 Test Graph	4
1.2.1 OBW	4
1.2.2 6dB BW	7
2. Maximum Conducted Output Power	10
2.1 Test Result	10
2.1.1 Power	10
2.2 Test Graph	11
2.2.1 Power	11
3. Maximum Power Spectral Density	14
3.1 Test Result	14
3.1.1 PSD	14
3.2 Test Graph	15
3.2.1 PSD	15
4. Unwanted Emissions In Non-restricted Frequency Bands	18
4.1 Test Result	18
4.1.1 Ref	18

FCCID: 2AHPZ-CHS65

4.1.2 CSE	18
4.2 Test Graph	19
4.2.1 Ref	19
4.2.2 CSE	22

FCCID: 2AHPZ-CHS65

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	1.022	/	Pass
		2440	1	1.026	/	Pass
		2480	1	1.028	/	Pass
2M	SISO	2402	1	2.046	/	Pass
		2440	1	2.050	/	Pass
		2480	1	2.051	/	Pass

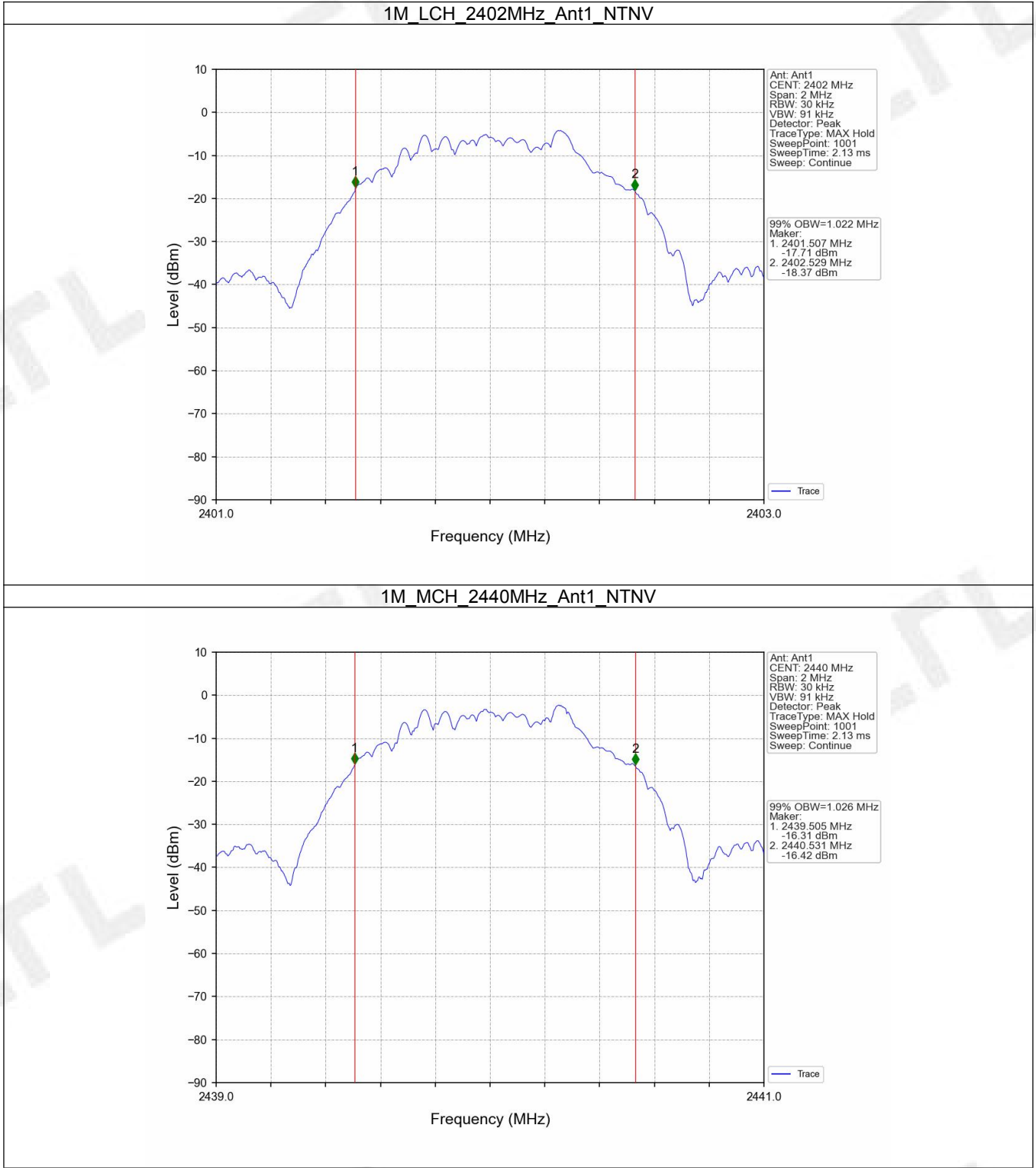
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.664	≥ 0.5	Pass
		2440	1	0.663	≥ 0.5	Pass
		2480	1	0.665	≥ 0.5	Pass
2M	SISO	2402	1	1.194	≥ 0.5	Pass
		2440	1	1.243	≥ 0.5	Pass
		2480	1	1.241	≥ 0.5	Pass

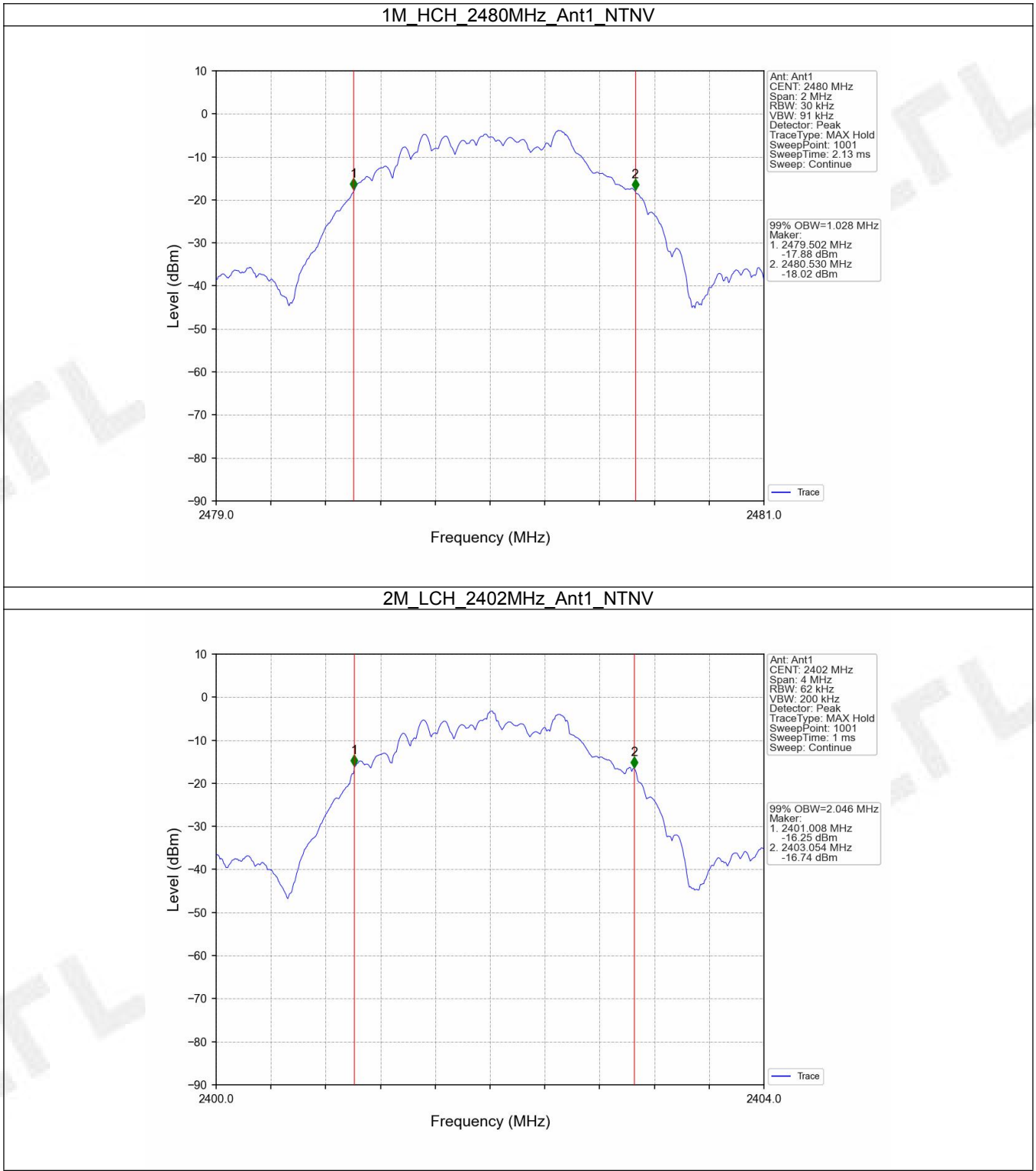
FCCID: 2AHPZ-CHS65

1.2 Test Graph

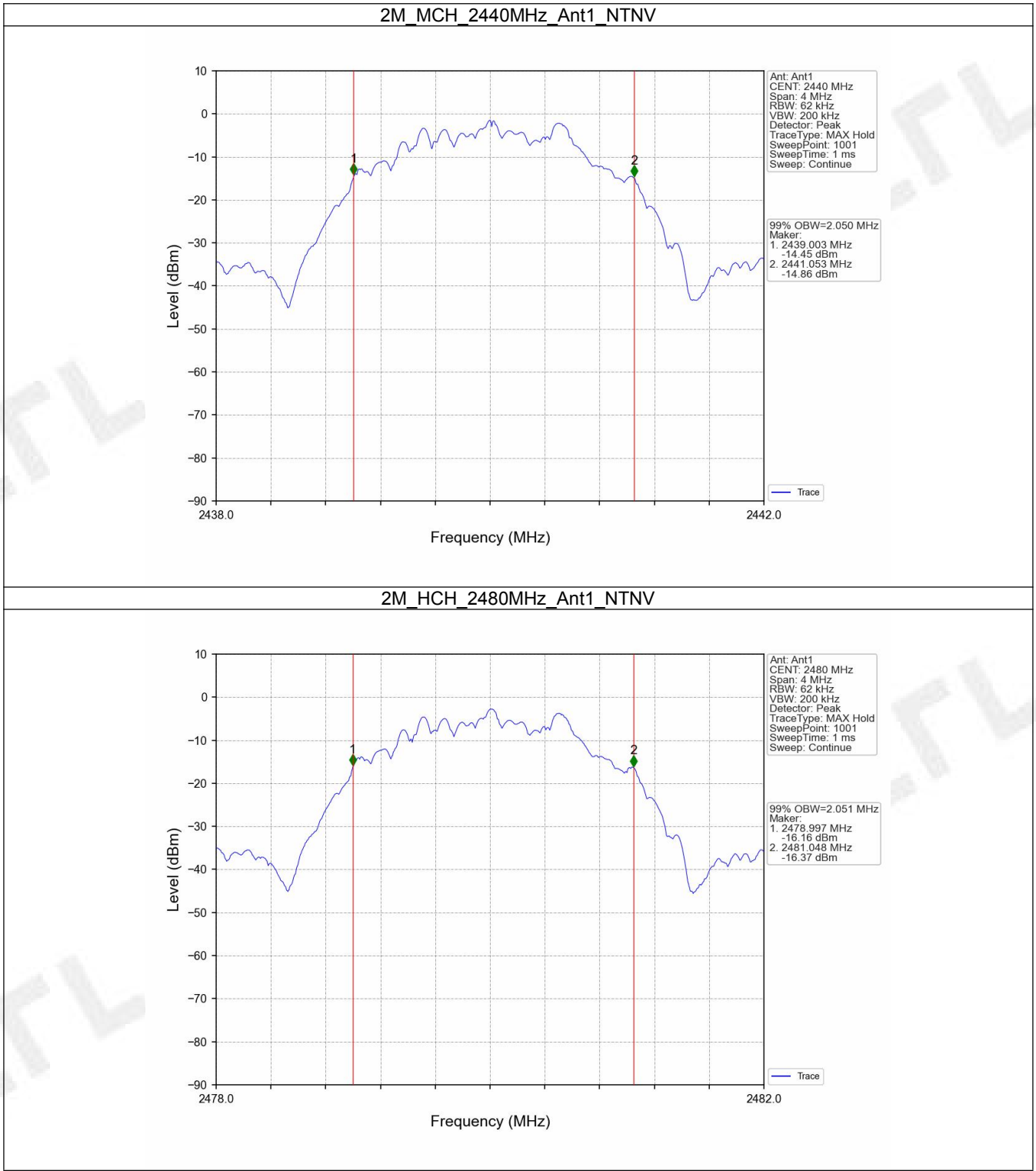
1.2.1 OBW



FCCID: 2AHPZ-CHS65

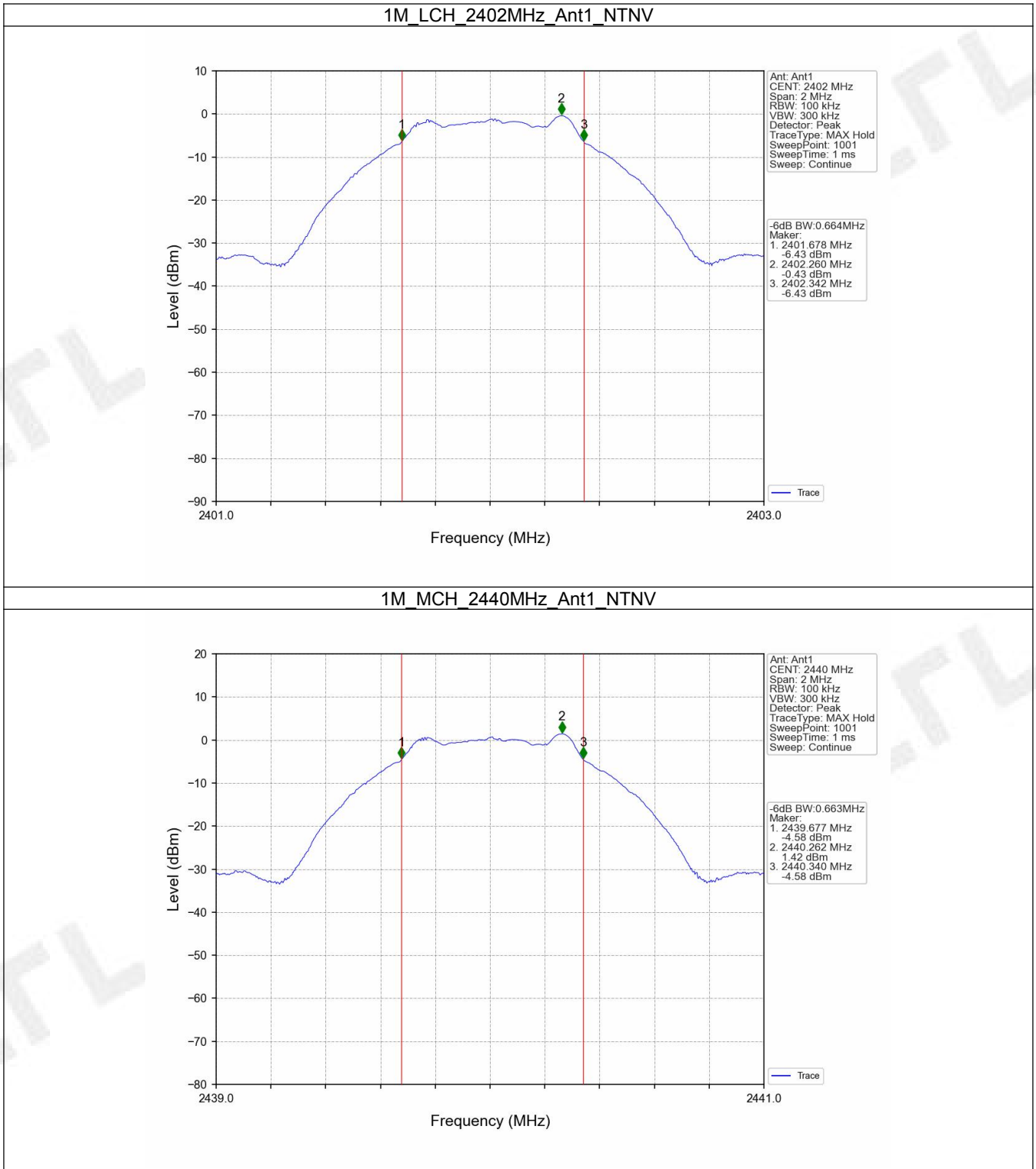


FCCID: 2AHPZ-CHS65

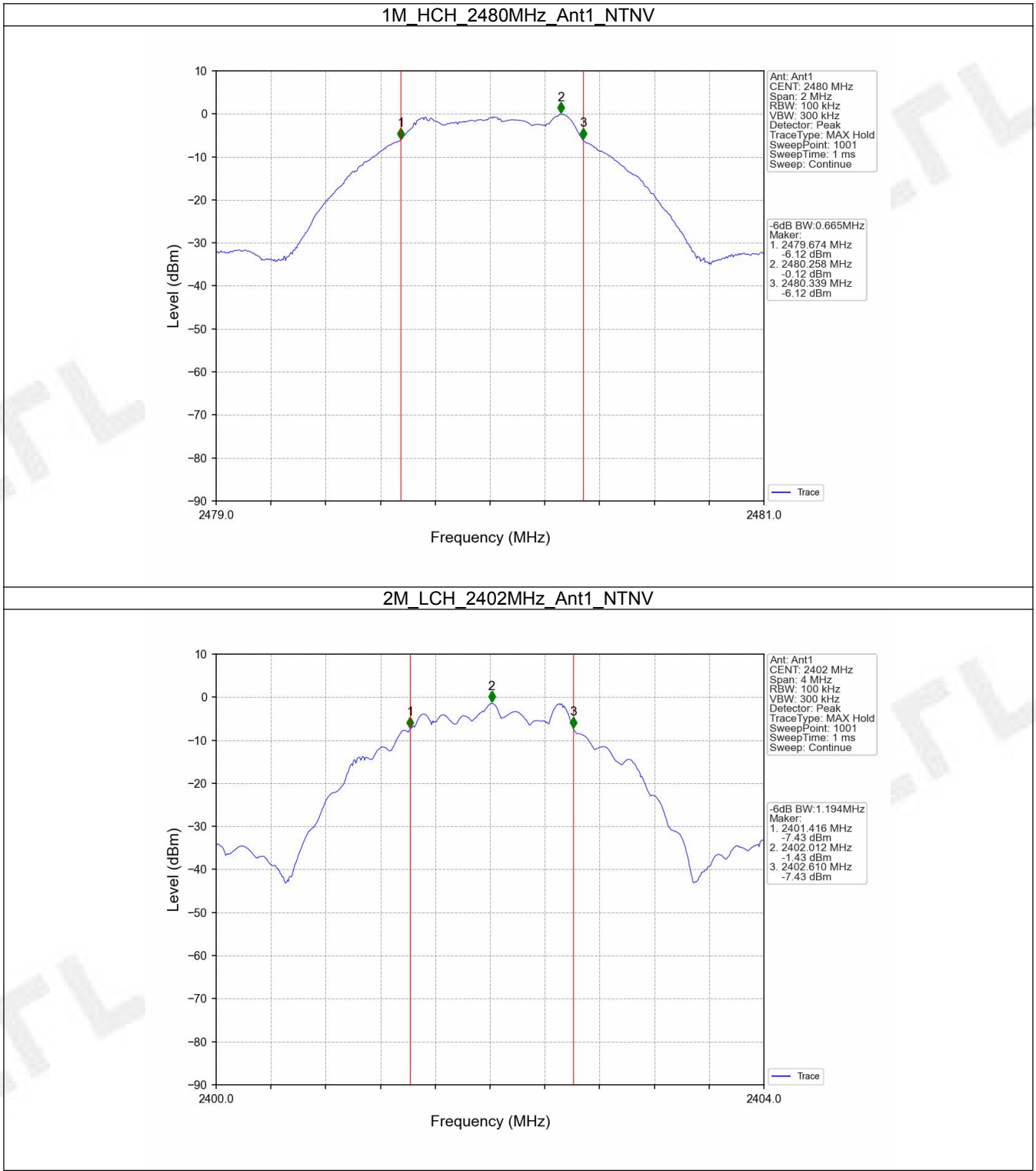


FCCID: 2AHPZ-CHS65

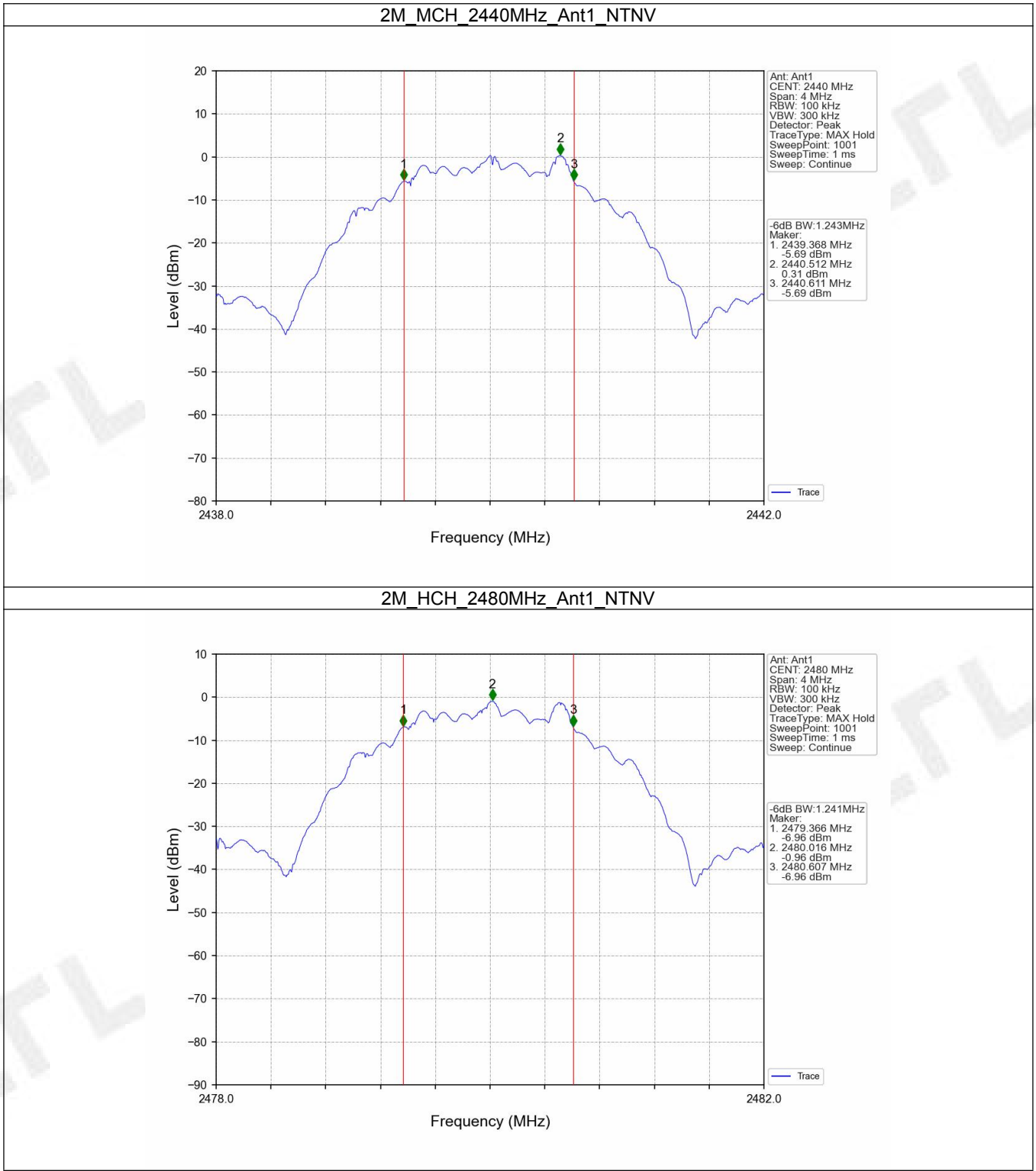
1.2.2 6dB BW



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65

2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

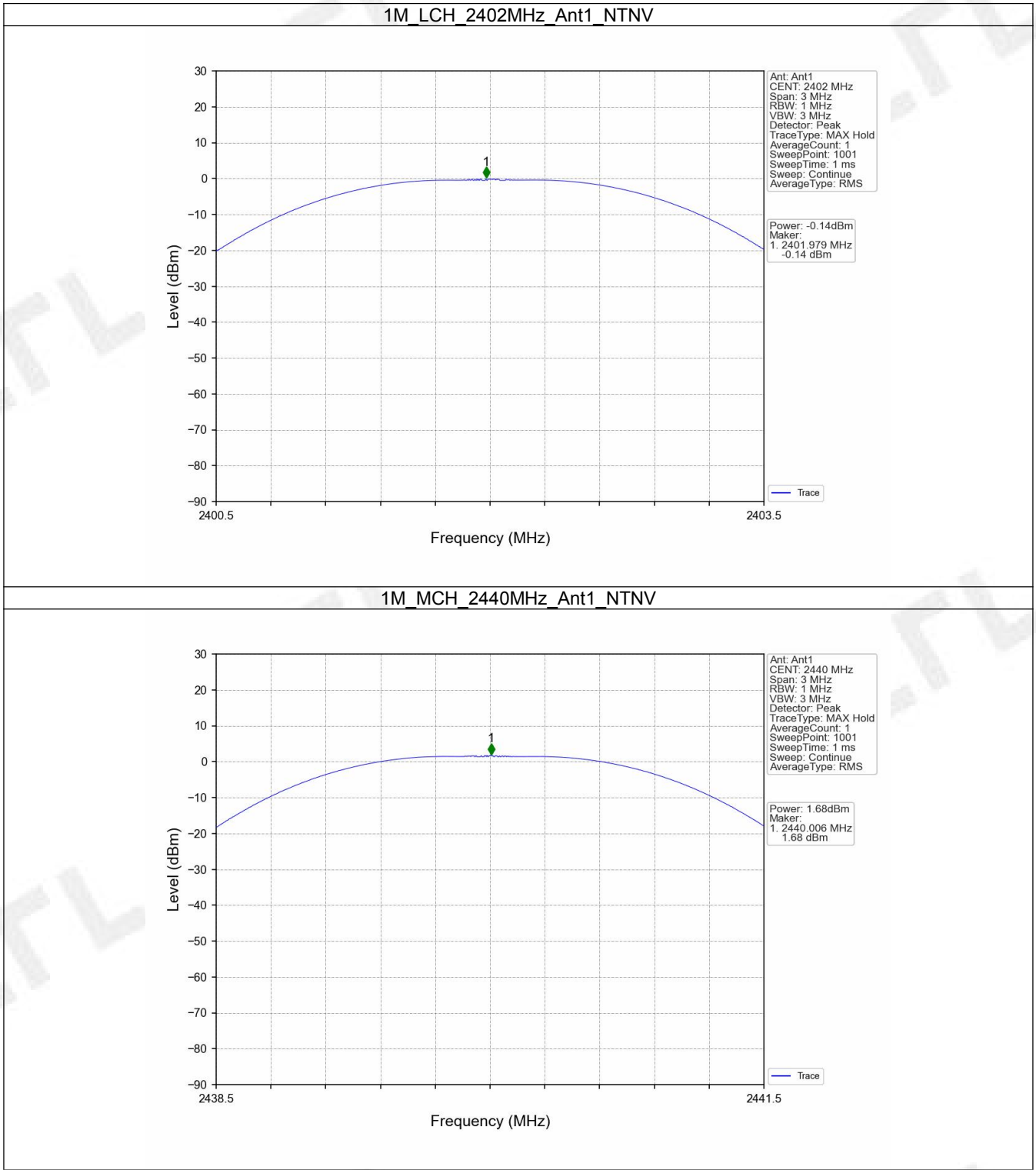
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.14	<=30	Pass
		2440	1.68	<=30	Pass
		2480	0.27	<=30	Pass
2M	SISO	2402	-0.15	<=30	Pass
		2440	1.68	<=30	Pass
		2480	0.29	<=30	Pass

Note1: Antenna Gain: Ant1: 1.70dBi;

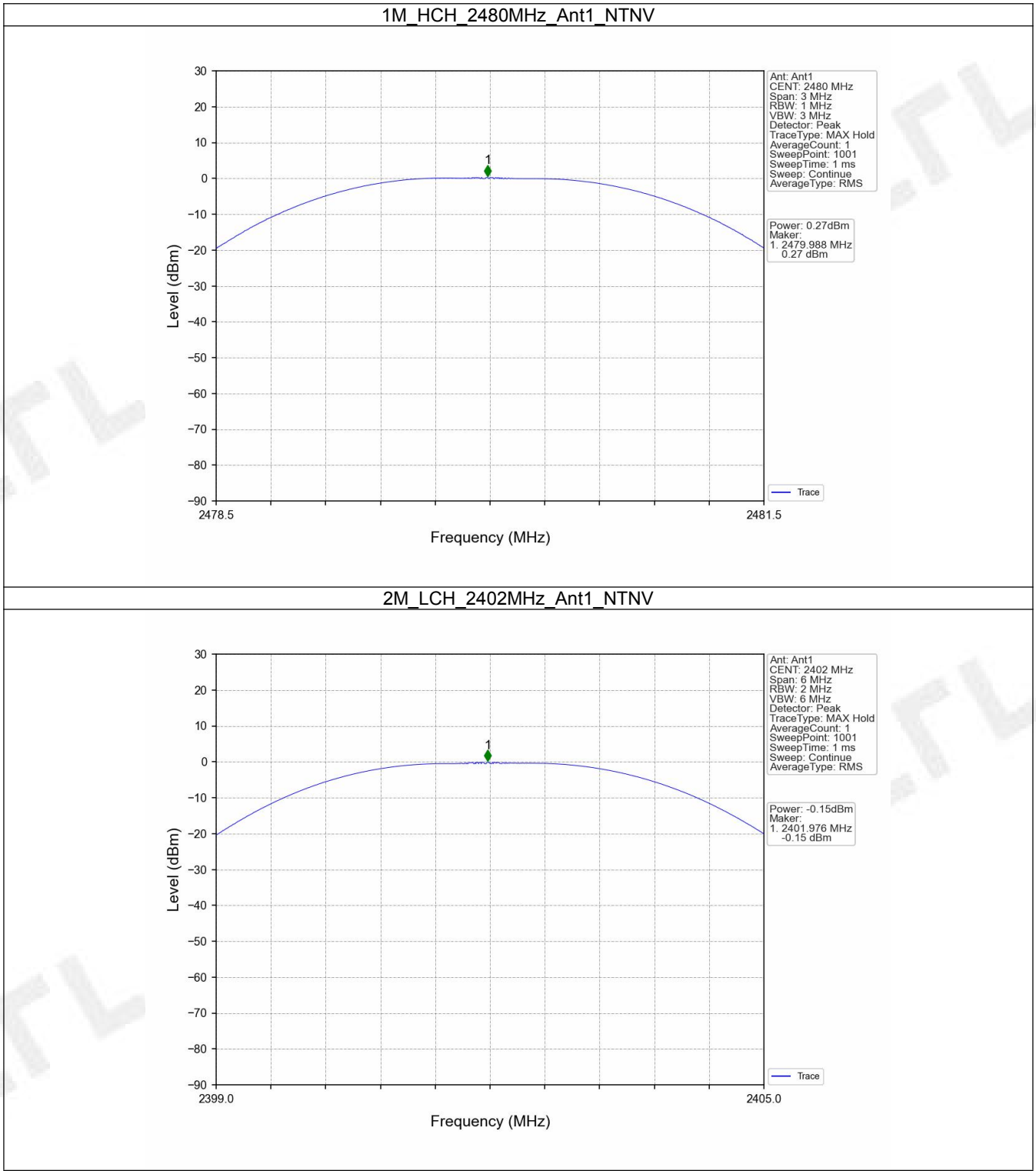
FCCID: 2AHPZ-CHS65

2.2 Test Graph

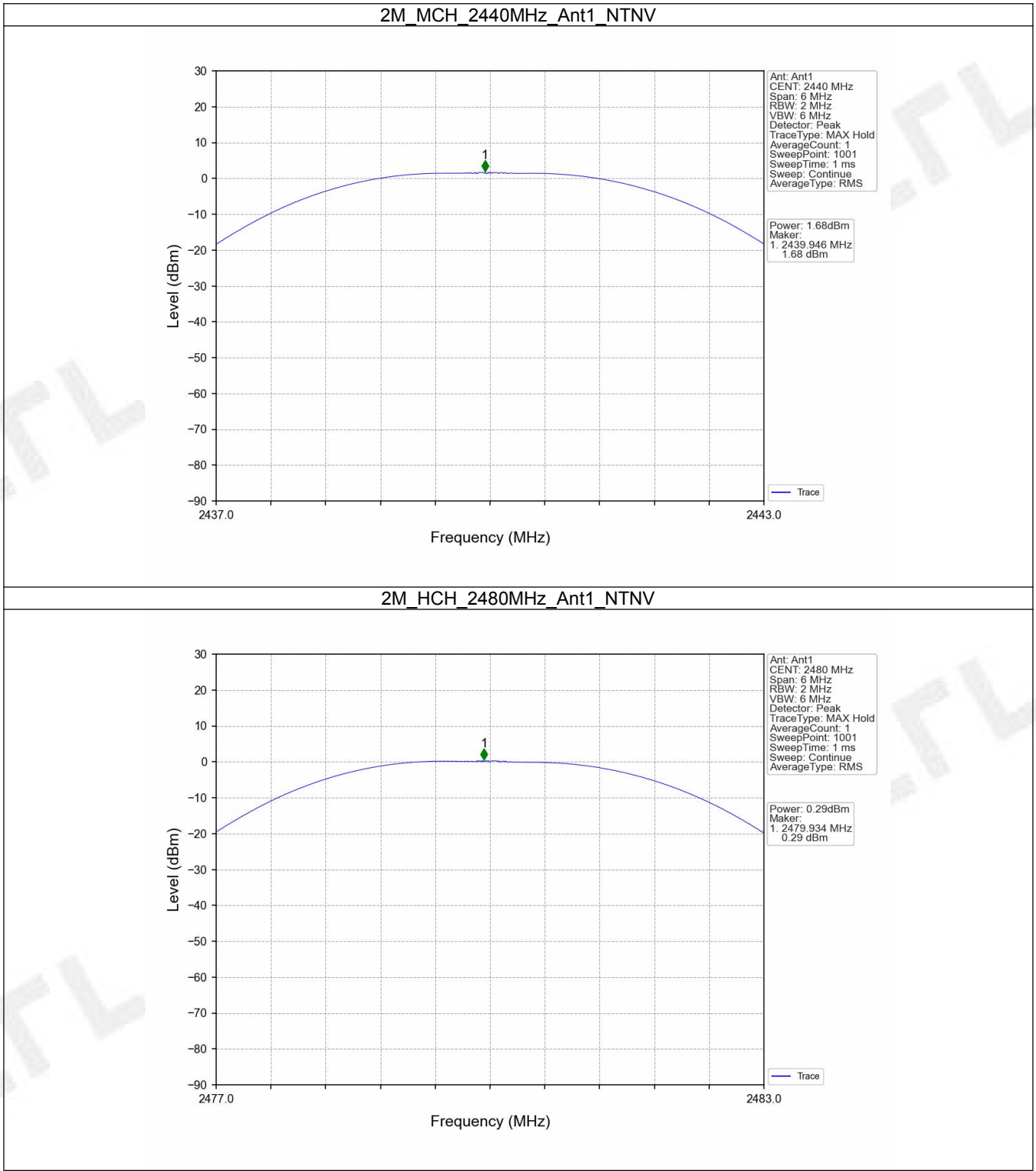
2.2.1 Power



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65

3. Maximum Power Spectral Density

3.1 Test Result

3.1.1 PSD

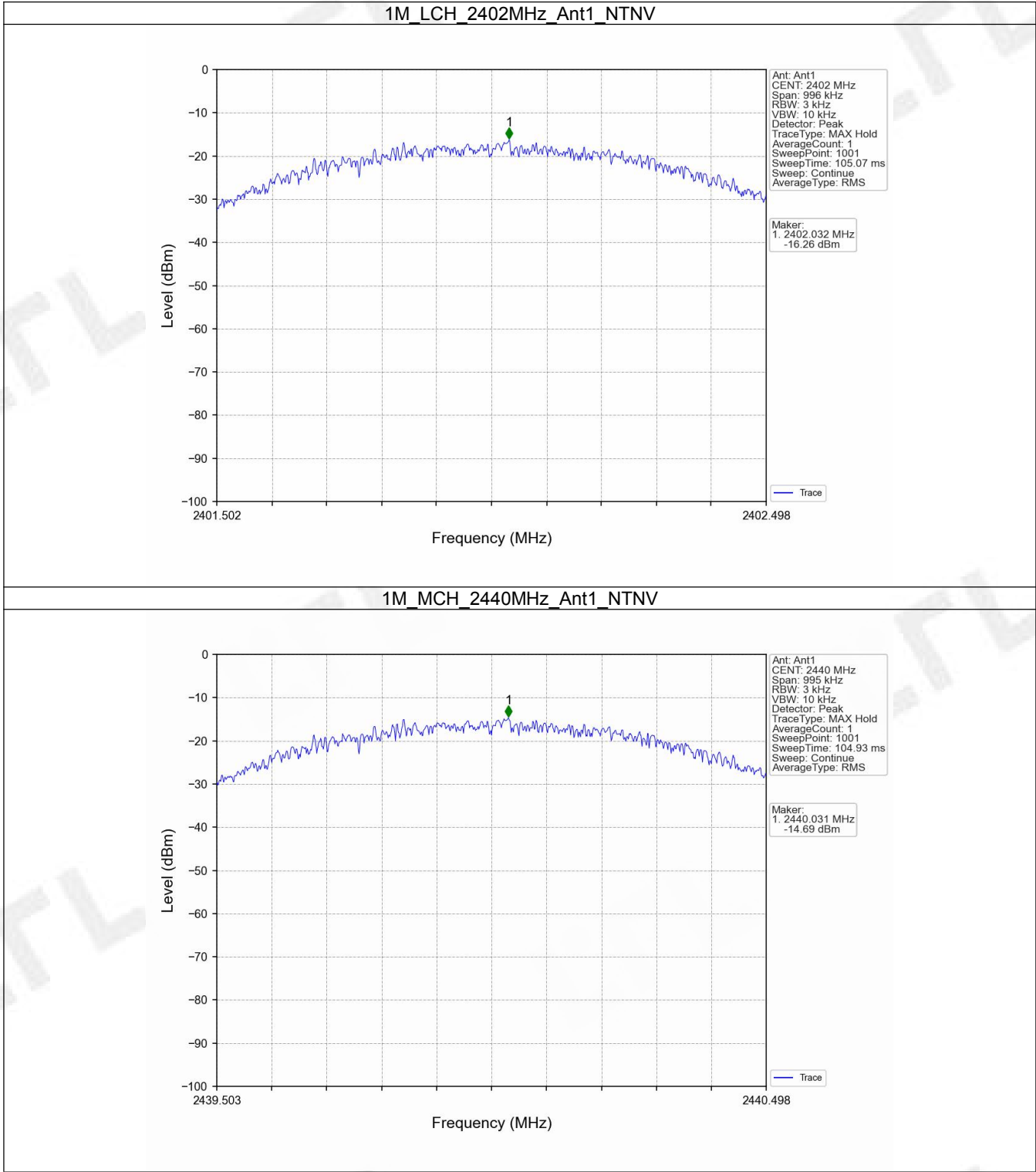
Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.26	<=8	Pass
		2440	-14.69	<=8	Pass
		2480	-15.83	<=8	Pass
2M	SISO	2402	-19.65	<=8	Pass
		2440	-17.53	<=8	Pass
		2480	-19.43	<=8	Pass

Note1: Antenna Gain: Ant1: 1.70dBi;

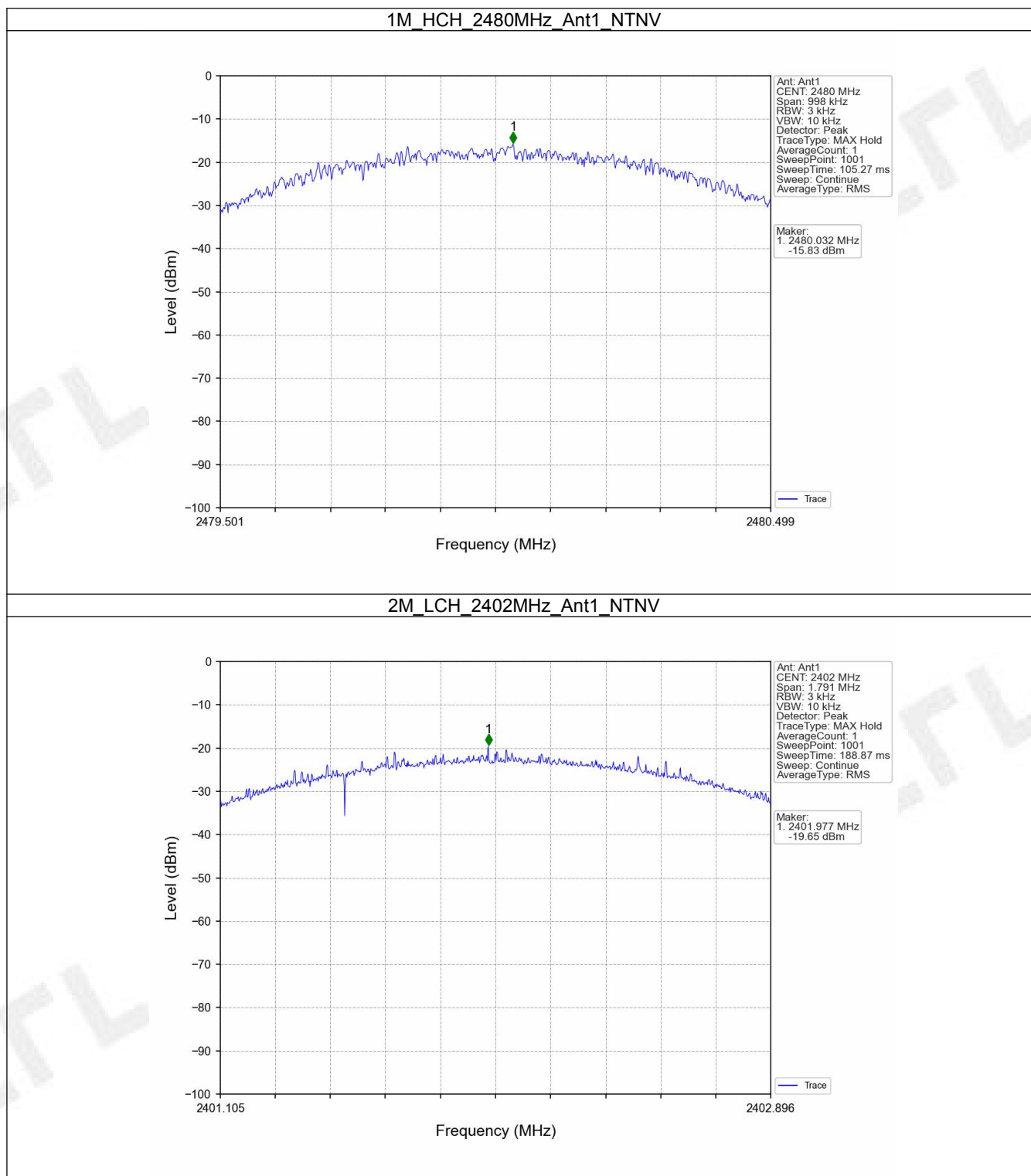
FCCID: 2AHPZ-CHS65

3.2 Test Graph

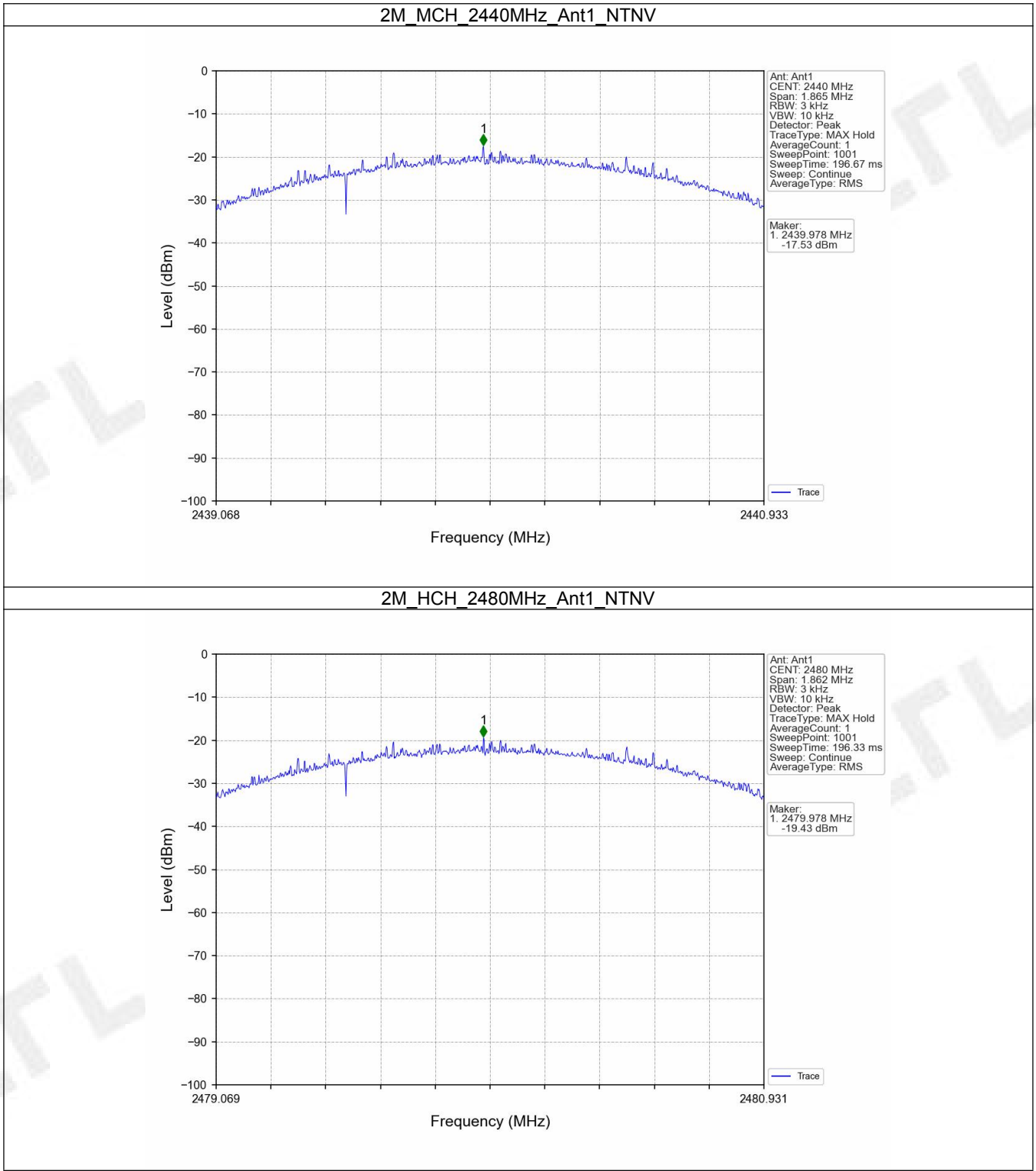
3.2.1 PSD



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65

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	-0.43
		2440	1	1.42
		2480	1	-0.09
2M	SISO	2402	1	-1.39
		2440	1	0.46
		2480	1	-0.91

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.

4.1.2 CSE

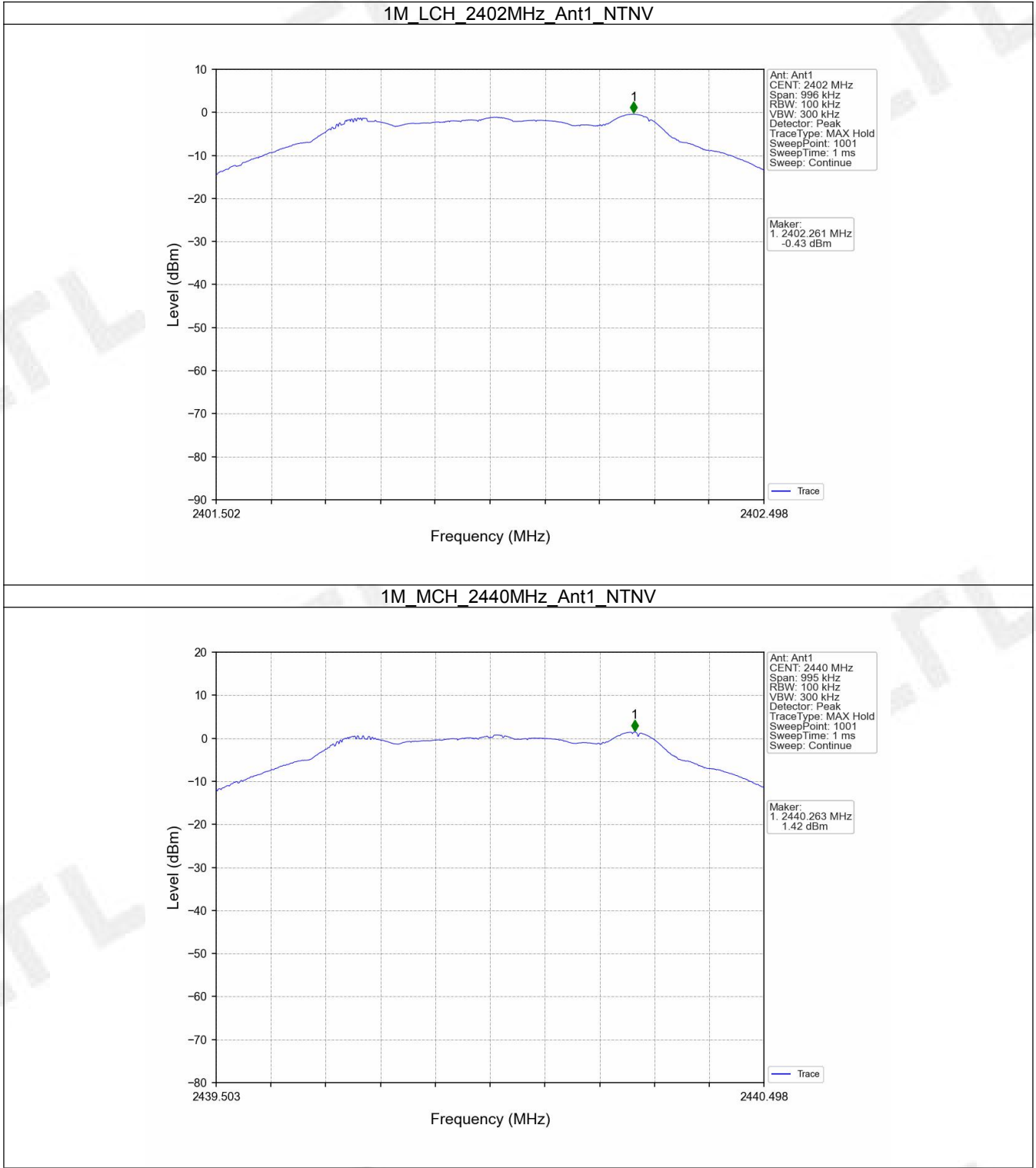
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	1.42	-18.58	Pass
		2440	1	1.42	-18.58	Pass
		2480	1	1.42	-18.58	Pass
2M	SISO	2402	1	0.46	-19.54	Pass
		2440	1	0.46	-19.54	Pass
		2480	1	0.46	-19.54	Pass

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.

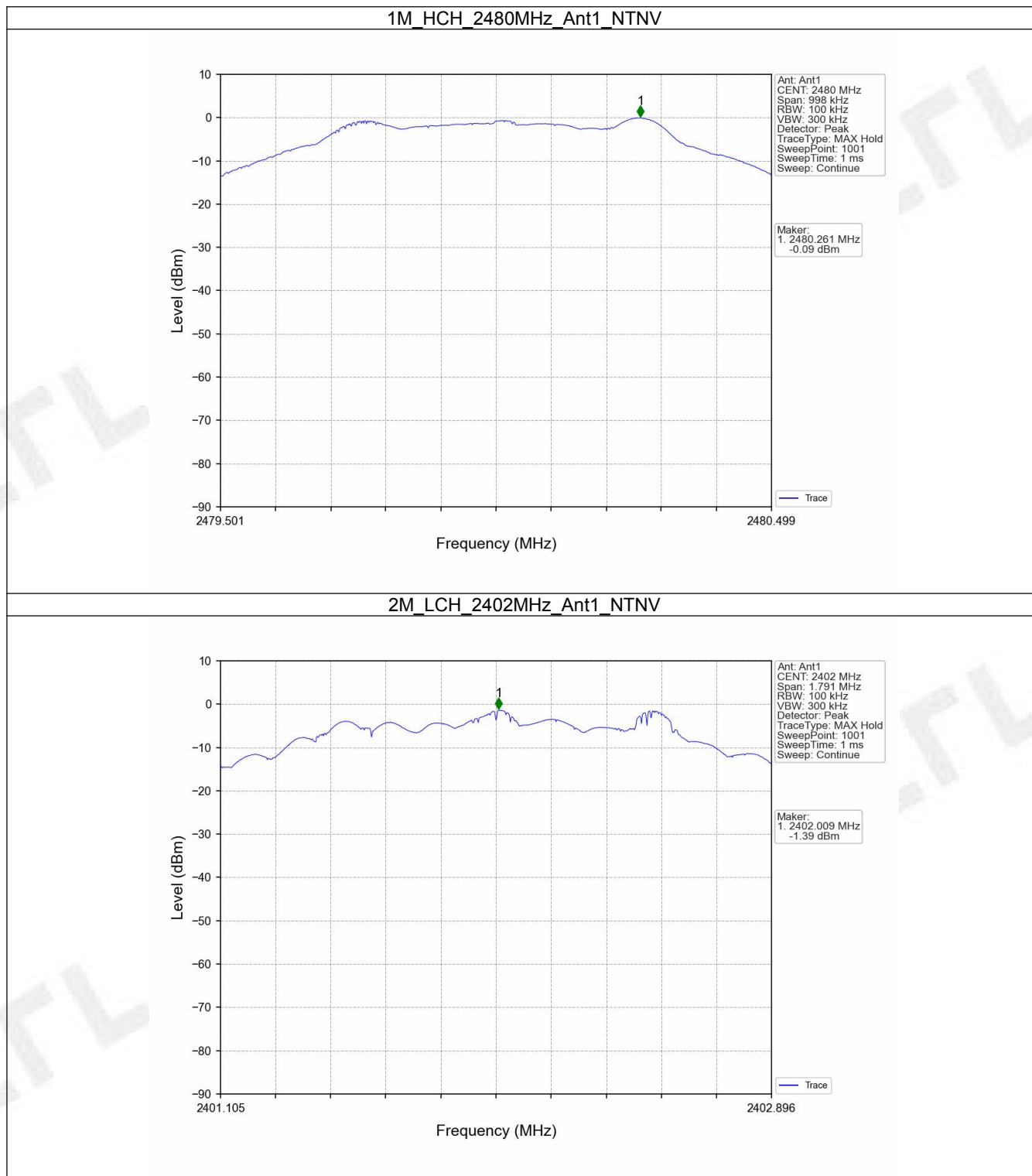
FCCID: 2AHPZ-CHS65

4.2 Test Graph

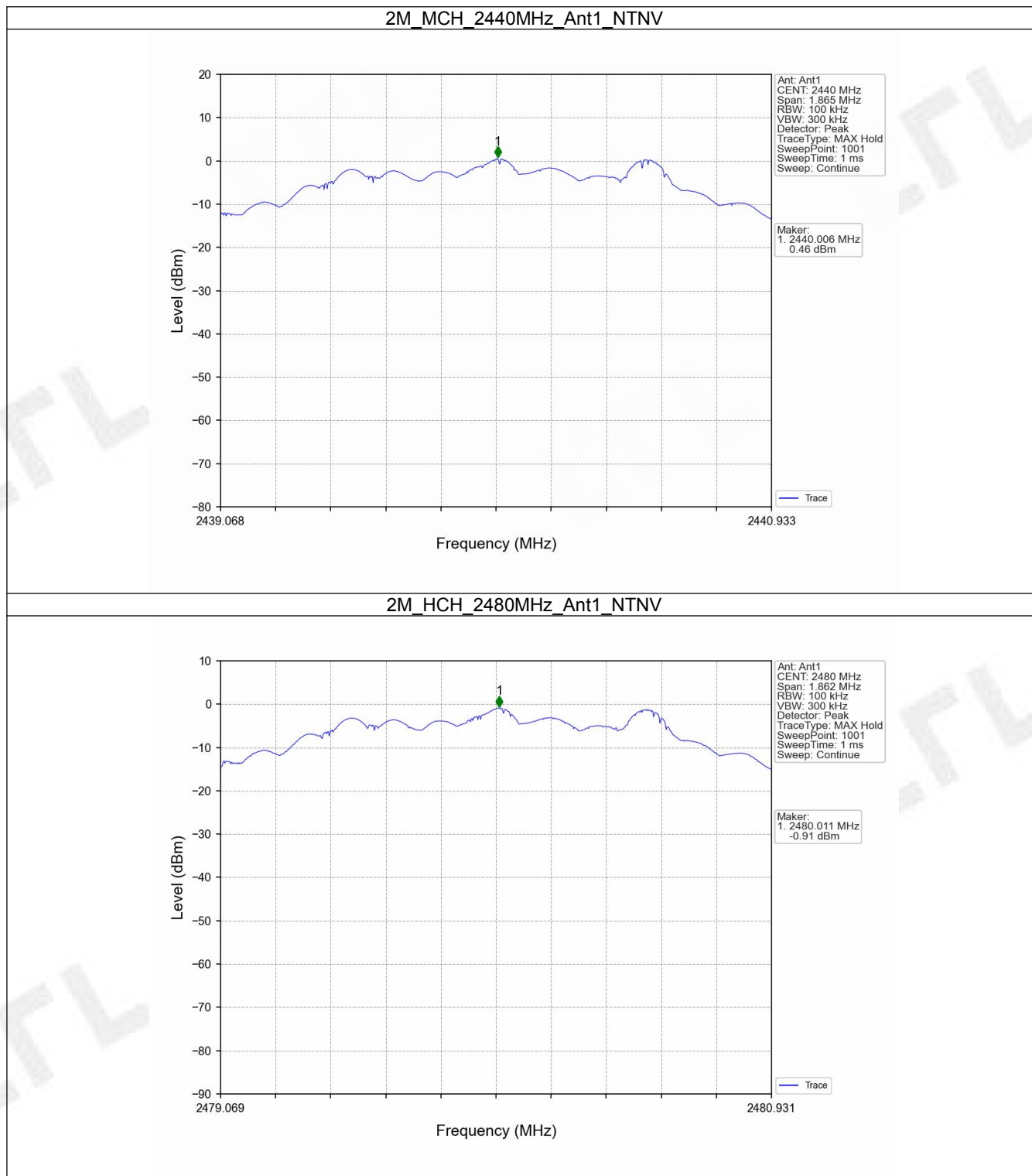
4.2.1 Ref



FCCID: 2AHPZ-CHS65

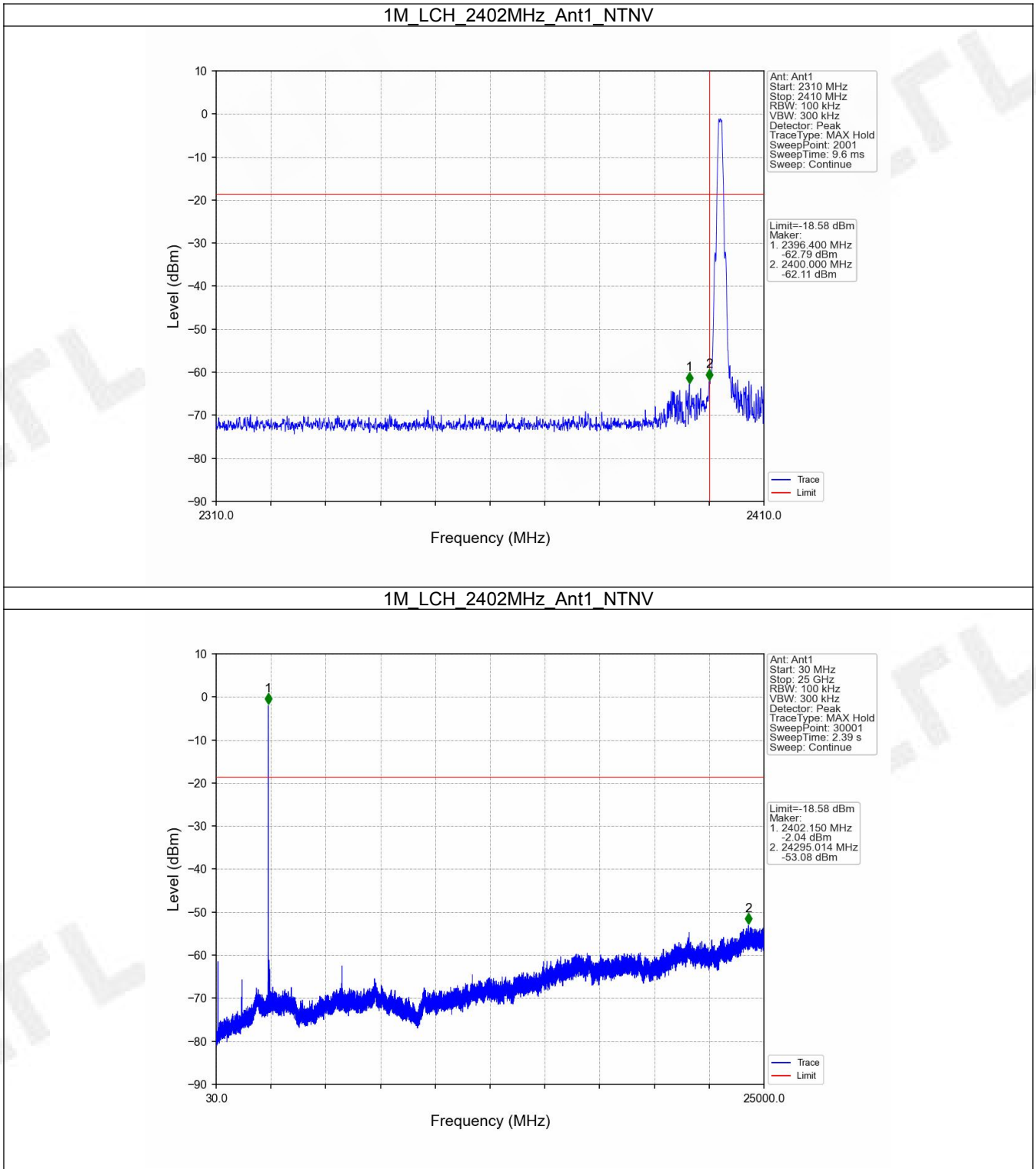


FCCID: 2AHPZ-CHS65

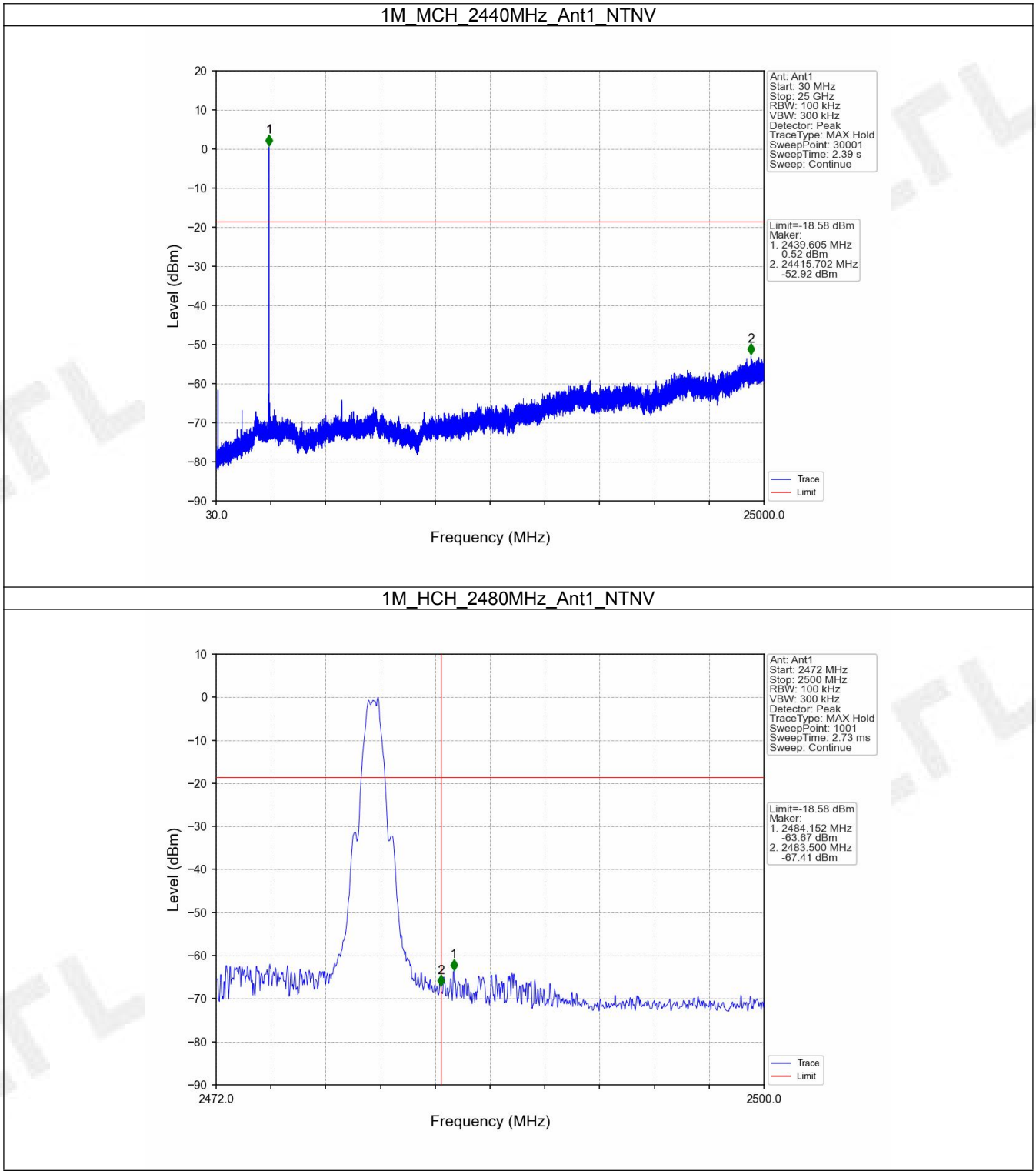


FCCID: 2AHPZ-CHS65

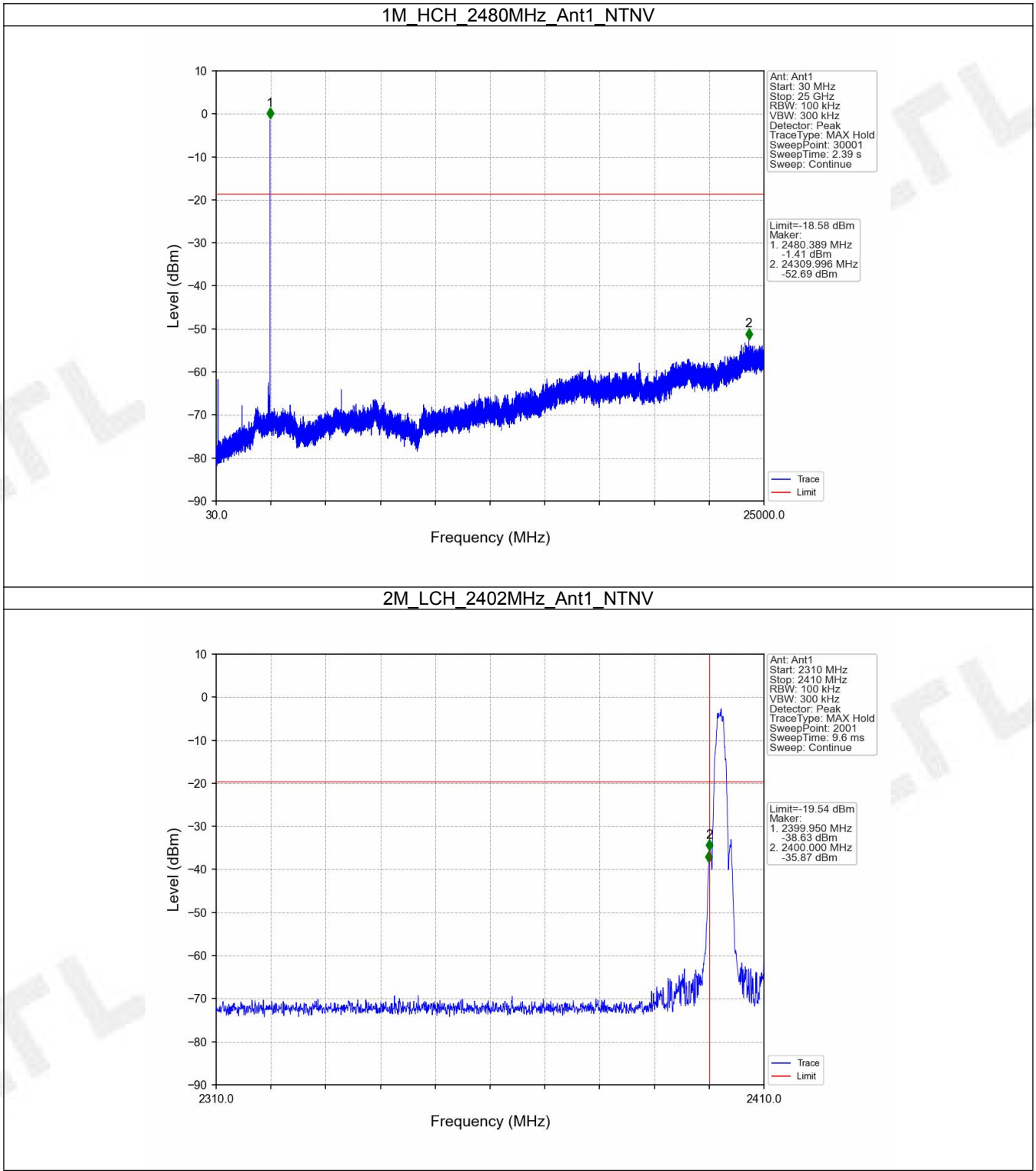
4.2.2 CSE



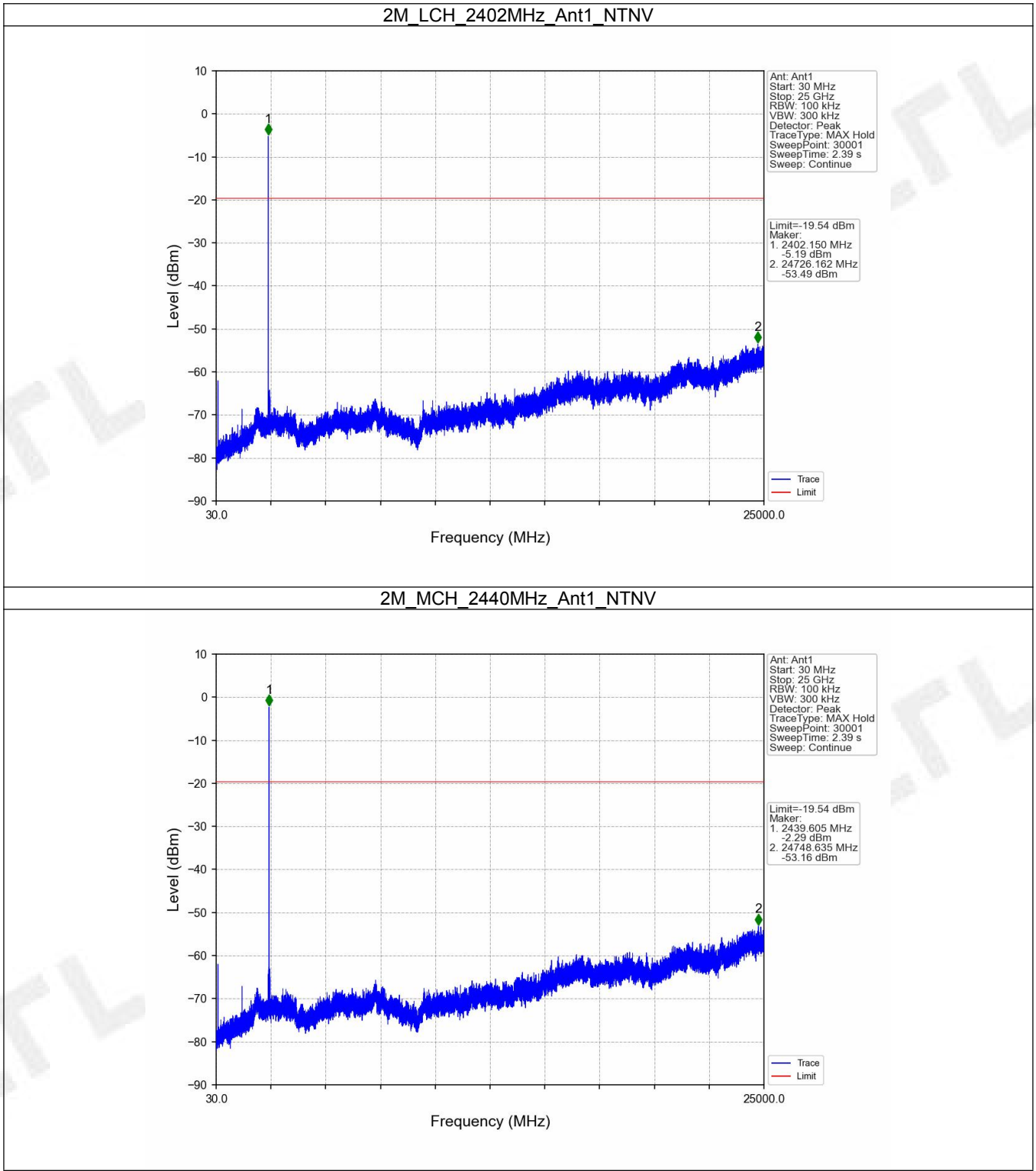
FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65



FCCID: 2AHPZ-CHS65

