



Annex for Bluetooth Low Energy

Test Report No.: CTL2410232073-WF01

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



4.1.2 CSE 18

4.2 Test Graph..... 19

4.2.1 Ref..... 19

4.2.2 CSE 22

FCCID: 2AU4A-BMS100

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	1.405	/	Pass
		2440	1	1.257	/	Pass
		2480	1	1.026	/	Pass
2M	SISO	2402	1	2.063	/	Pass
		2440	1	2.041	/	Pass
		2480	1	2.036	/	Pass

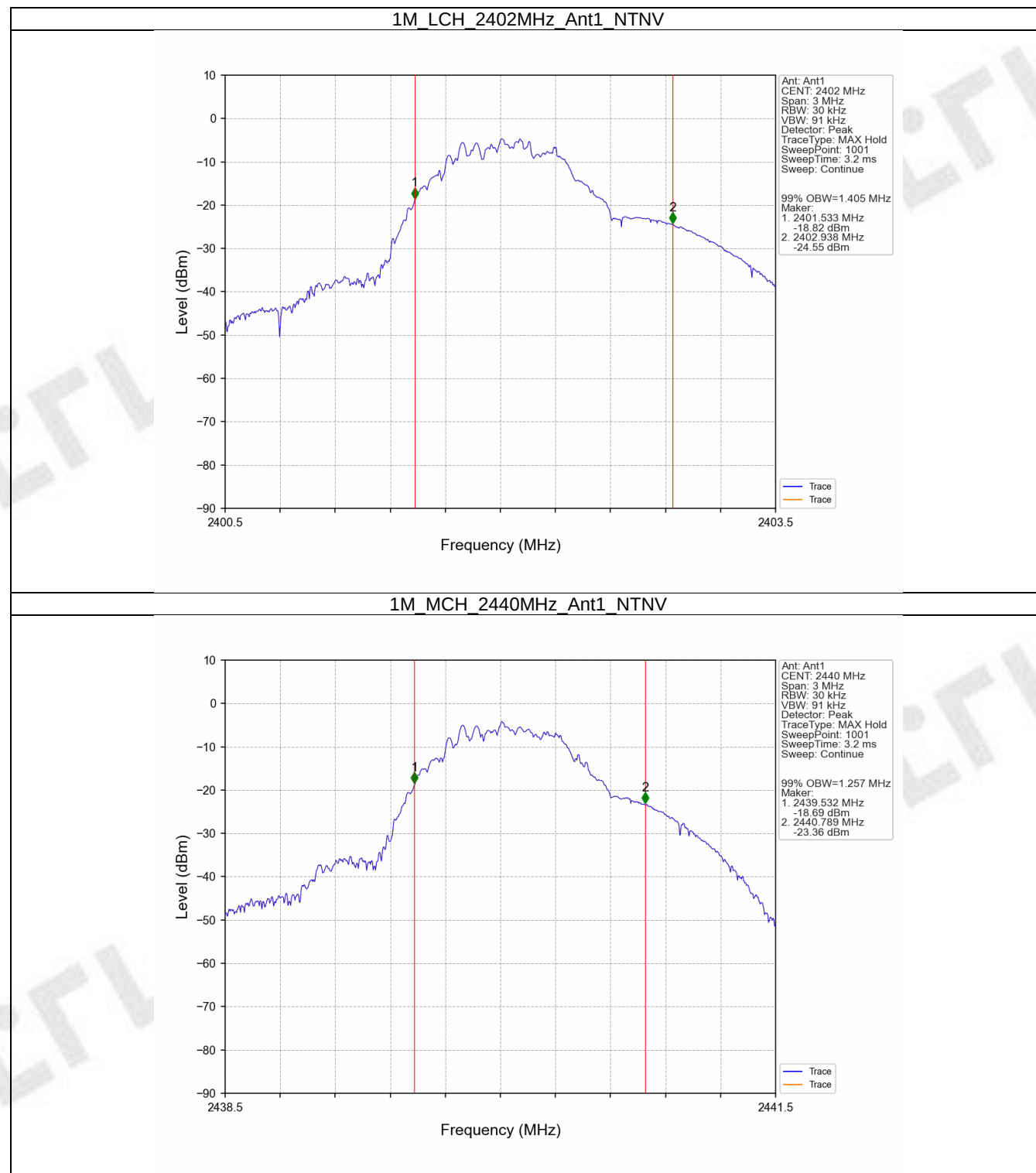
1.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.674	≥ 0.5	Pass
		2440	1	0.670	≥ 0.5	Pass
		2480	1	0.672	≥ 0.5	Pass
2M	SISO	2402	1	1.283	≥ 0.5	Pass
		2440	1	1.293	≥ 0.5	Pass
		2480	1	1.207	≥ 0.5	Pass

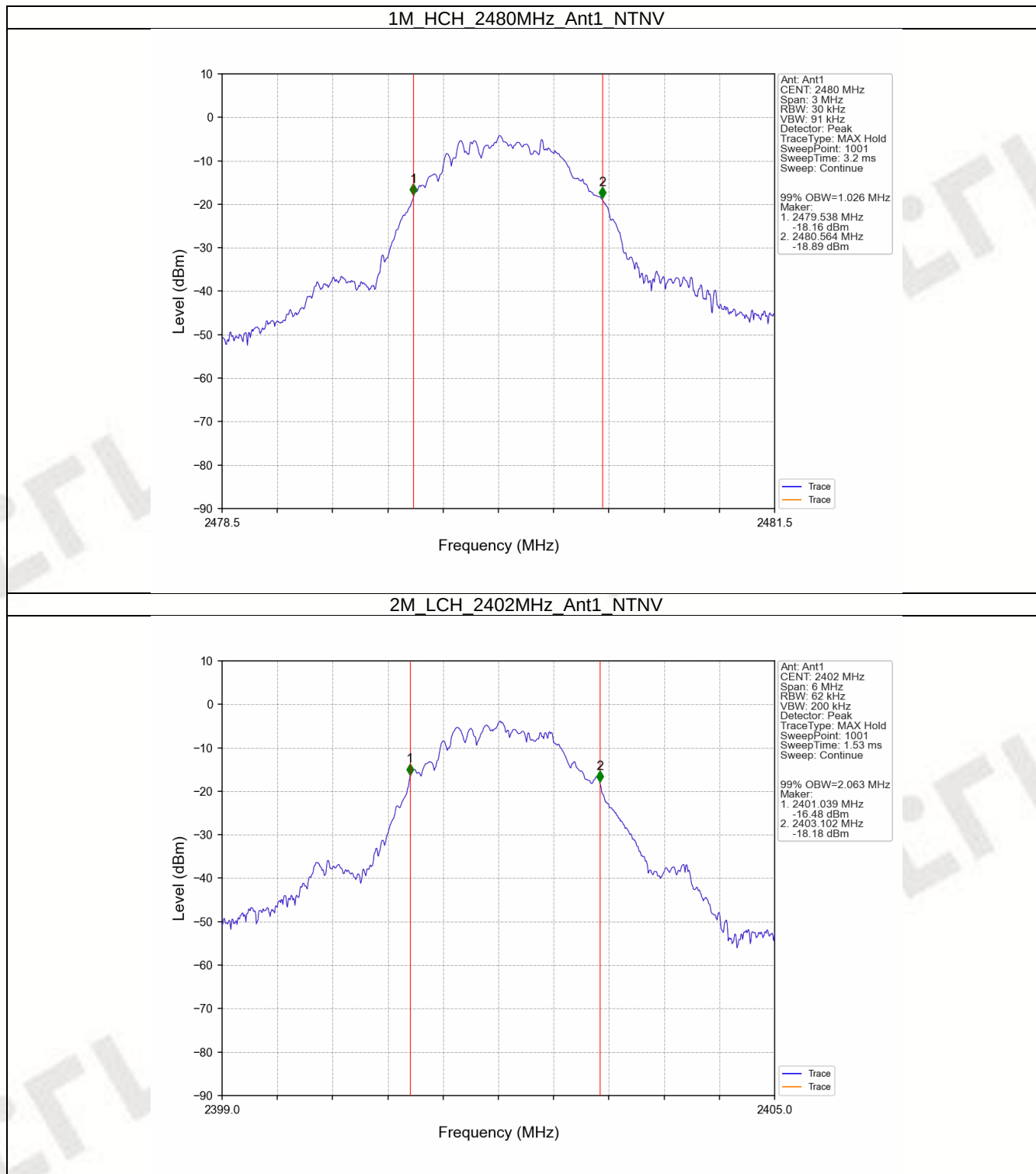
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1.2 Test Graph

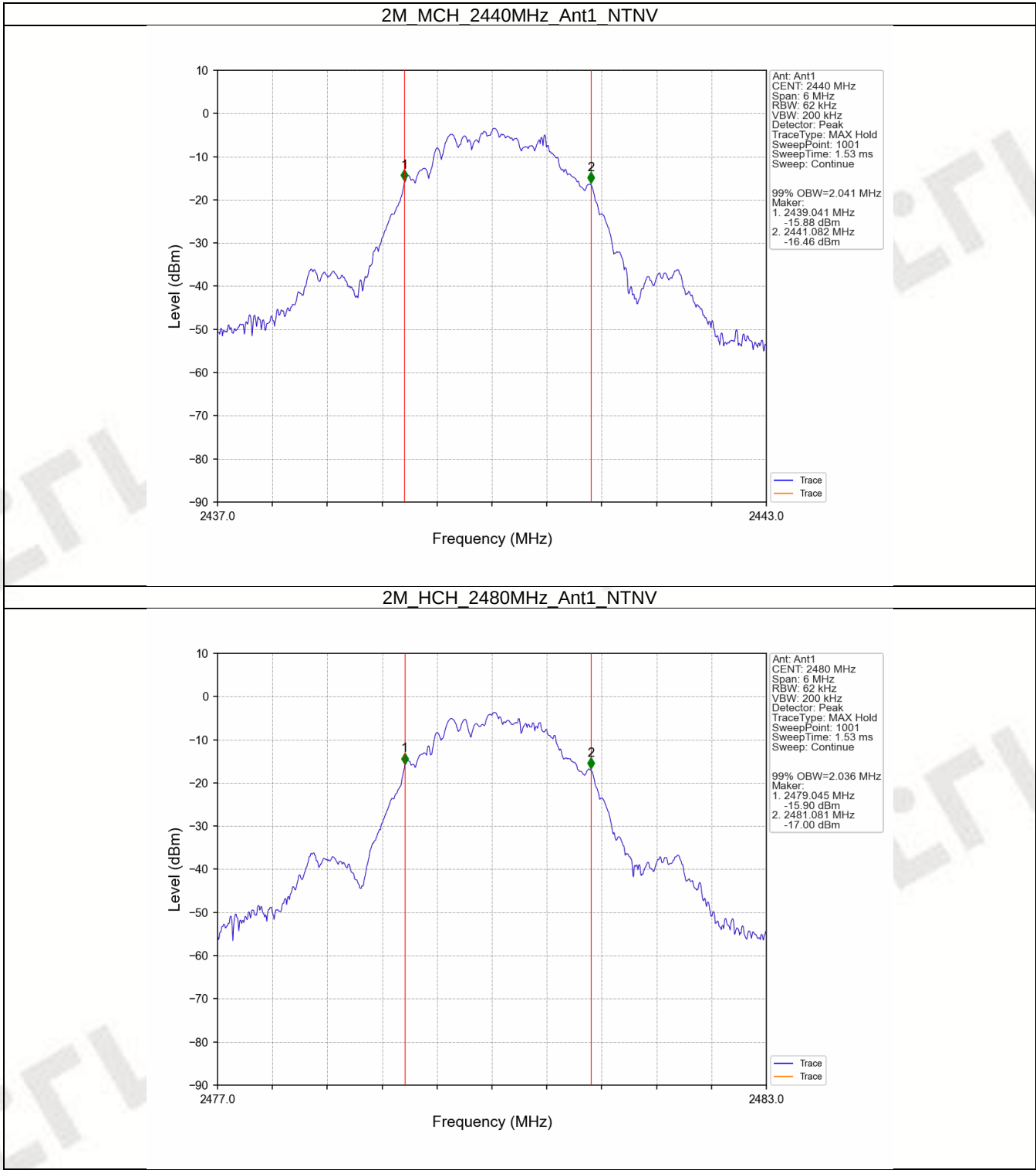
1.2.1 OBW



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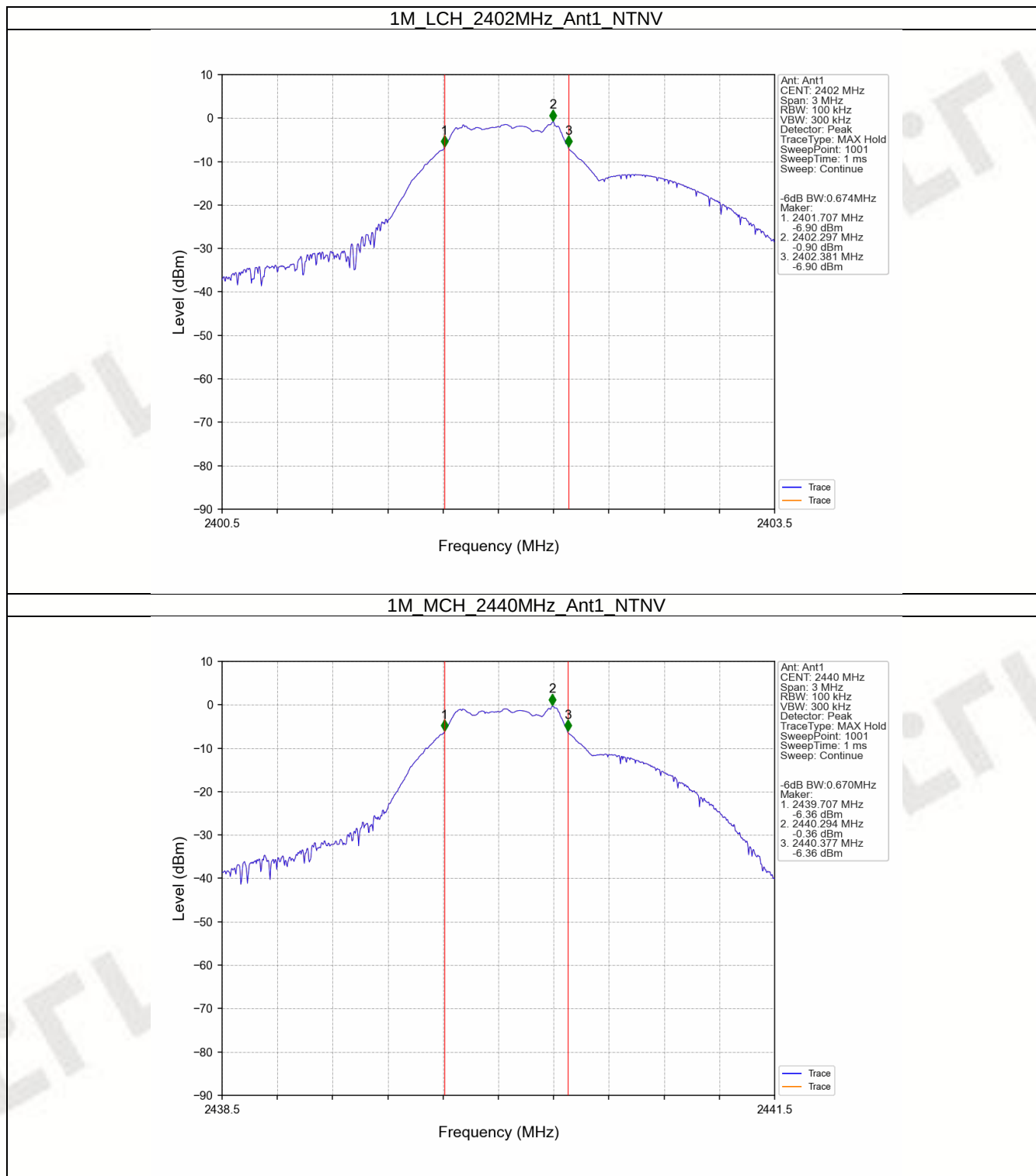


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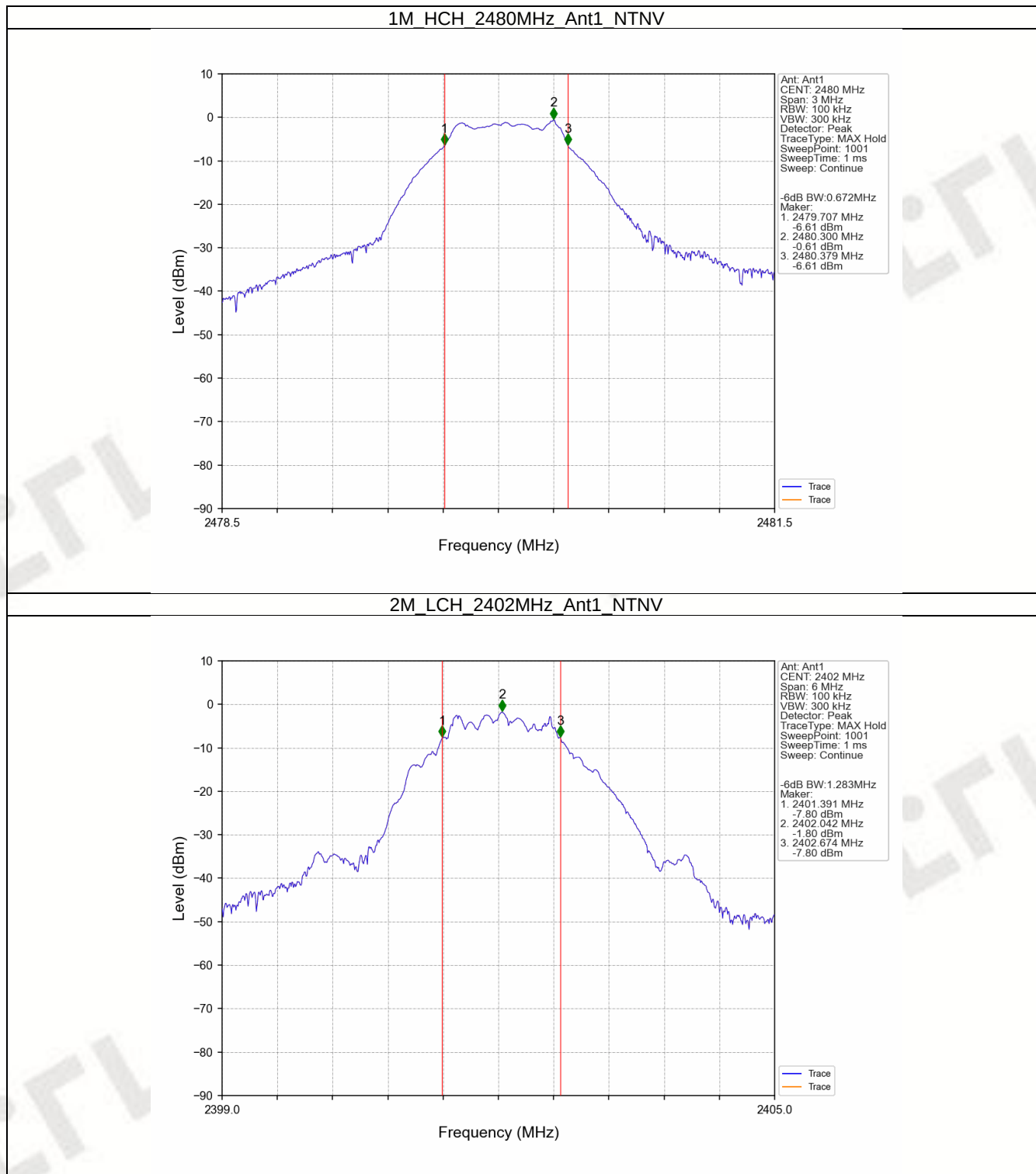


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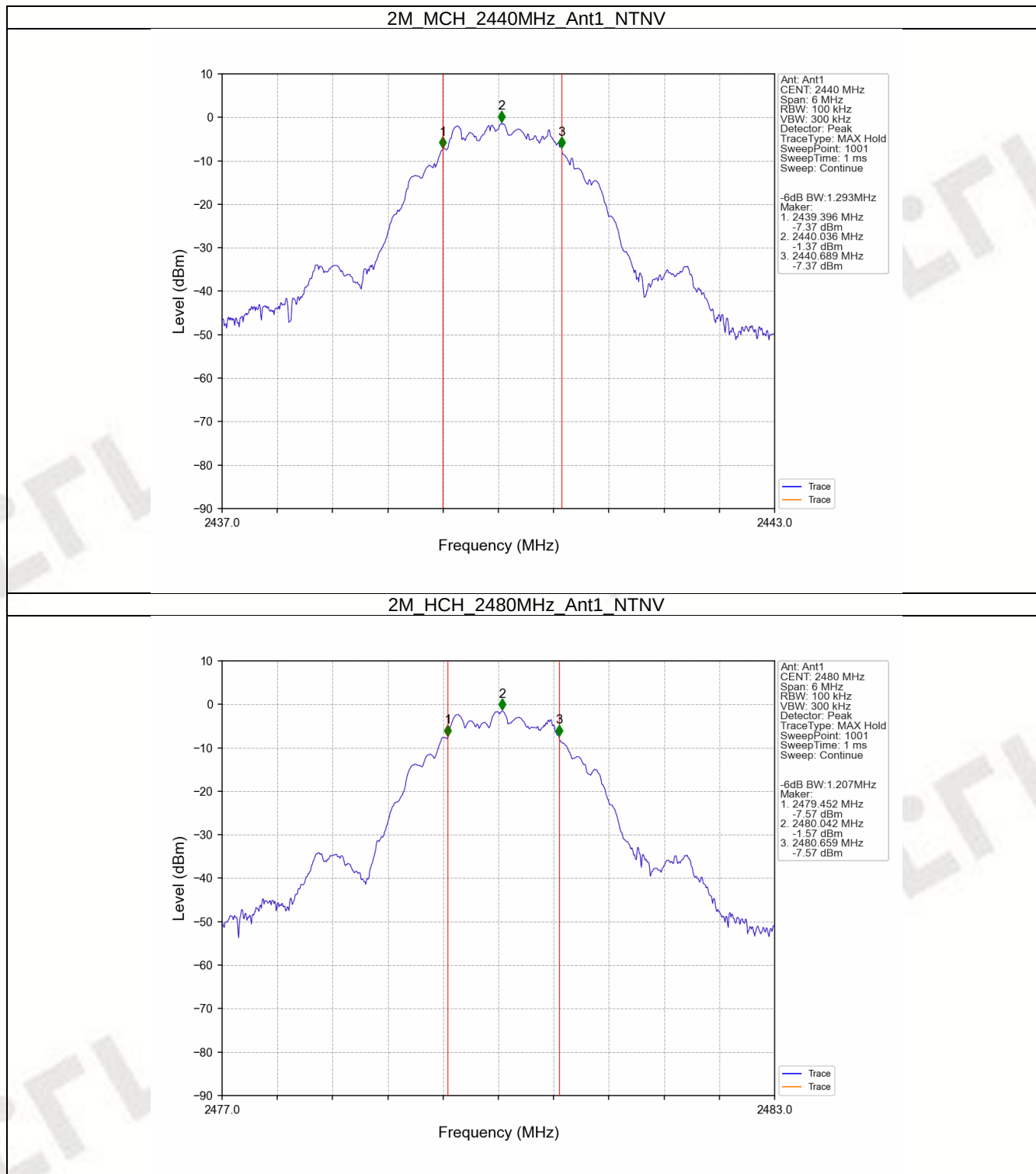
1.2.2 6dB BW



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2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

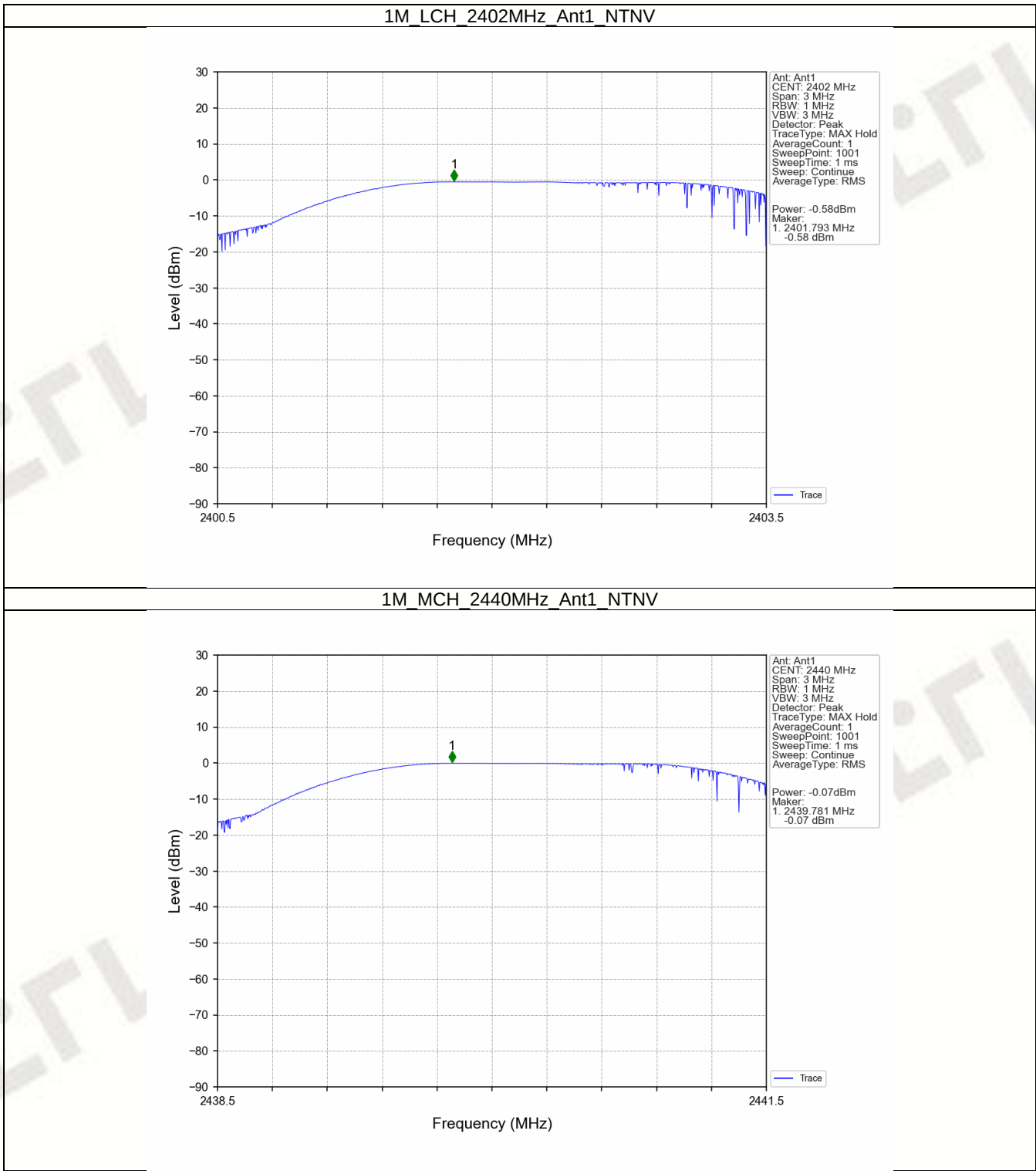
Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
1M	SISO	2402	-0.58	<=30	Pass
		2440	-0.07	<=30	Pass
		2480	-0.35	<=30	Pass
2M	SISO	2402	-0.53	<=30	Pass
		2440	-0.05	<=30	Pass
		2480	-0.35	<=30	Pass

Note1: Antenna Gain: Ant1: 2.10dBi;

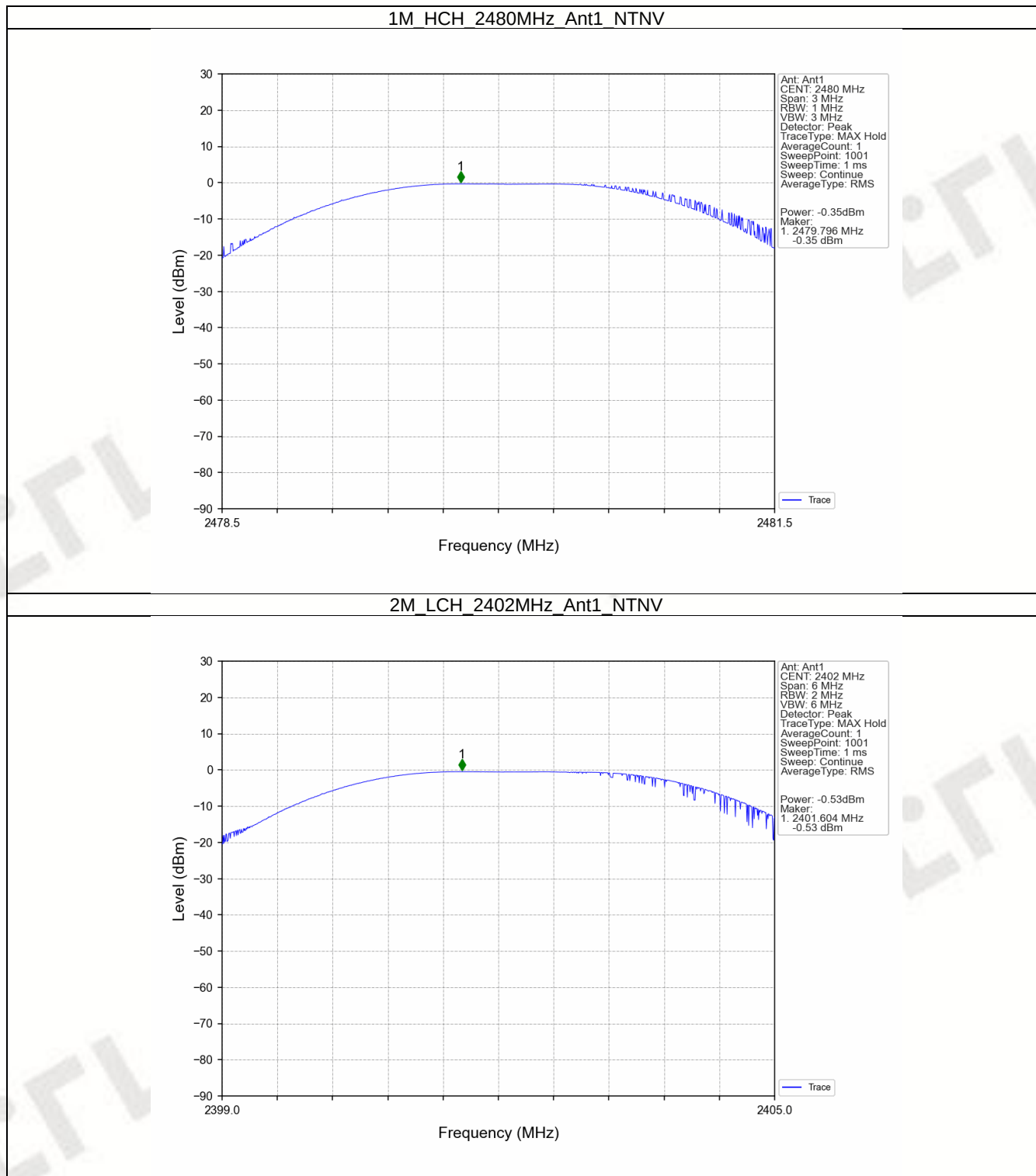
FCCID: 2AU4A-BMS100

2.2 Test Graph

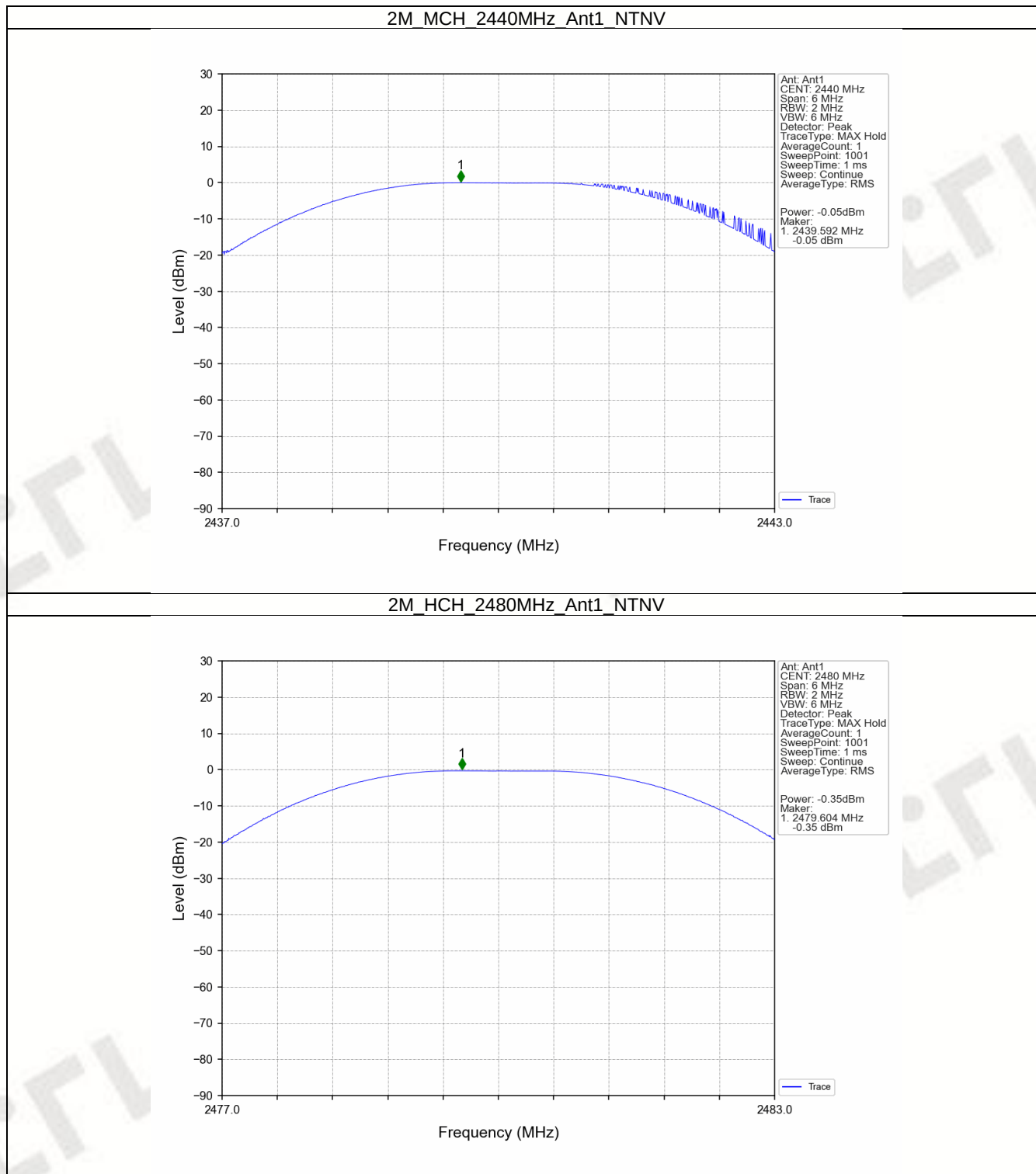
2.2.1 Power



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3. Maximum Power Spectral Density

3.1 Test Result

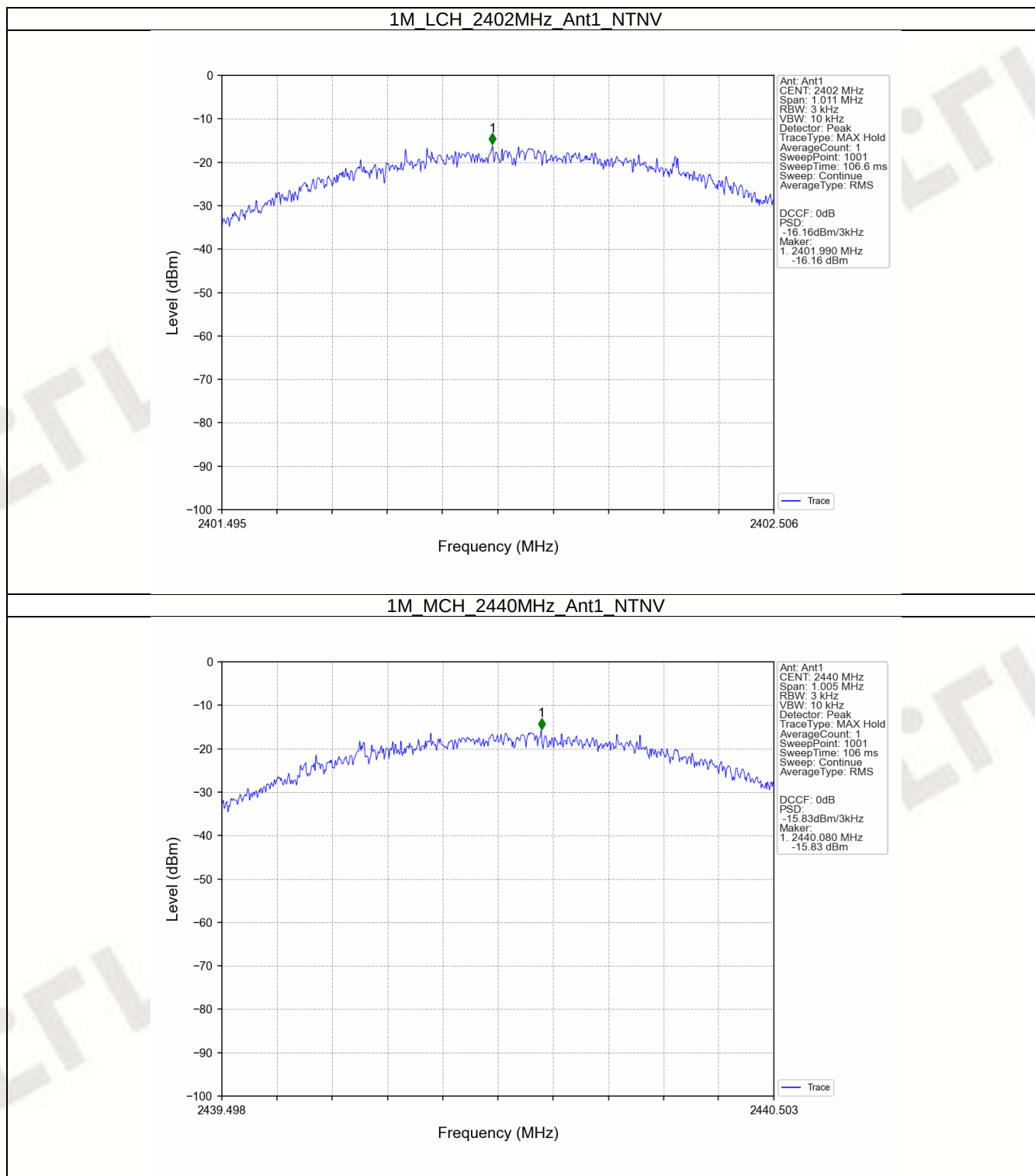
3.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
1M	SISO	2402	-16.16	<=8	Pass
		2440	-15.83	<=8	Pass
		2480	-14.65	<=8	Pass
2M	SISO	2402	-19.46	<=8	Pass
		2440	-17.85	<=8	Pass
		2480	-17.28	<=8	Pass
Note1: Antenna Gain: Ant1: 2.10dBi;					

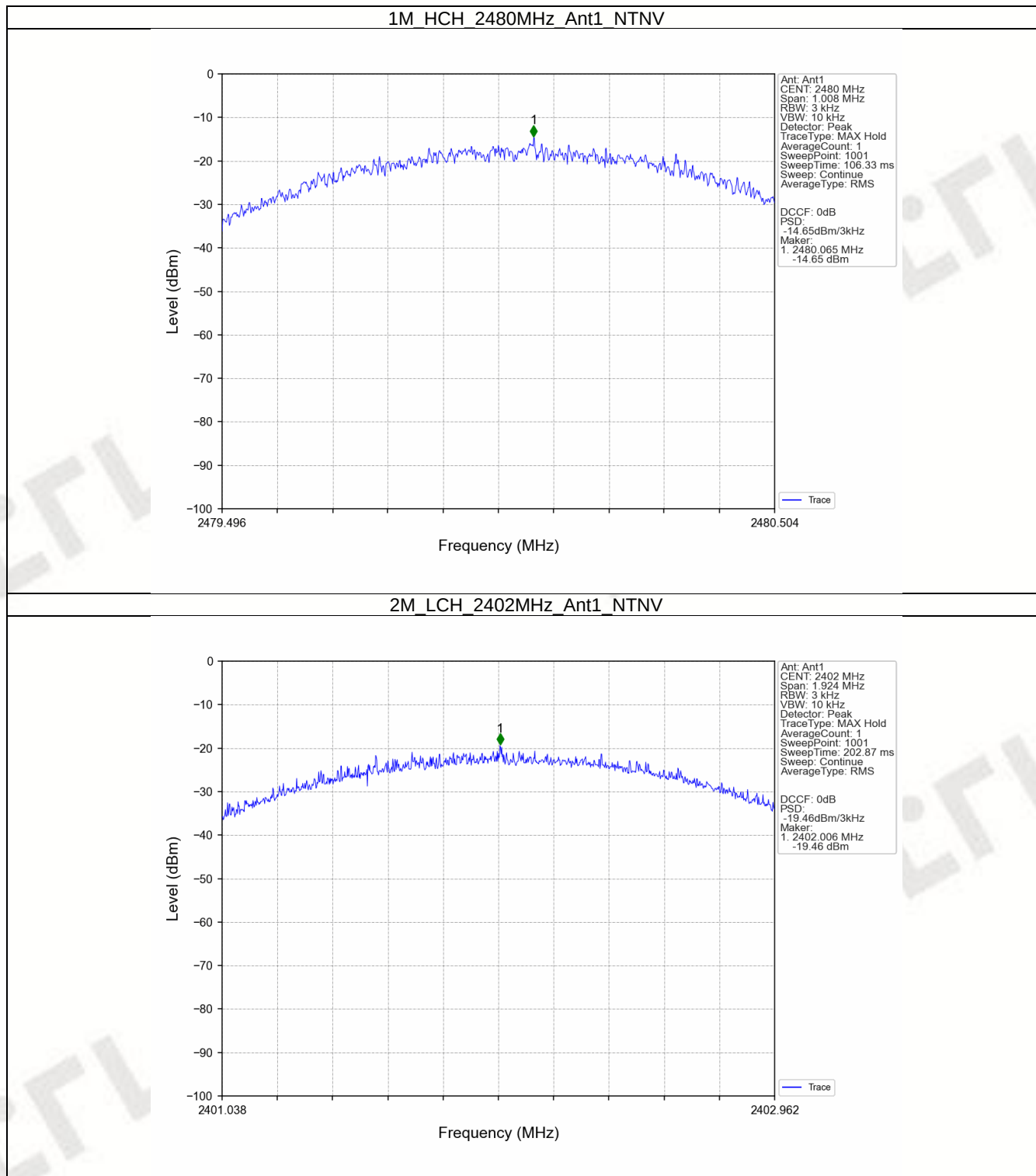
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3.2 Test Graph

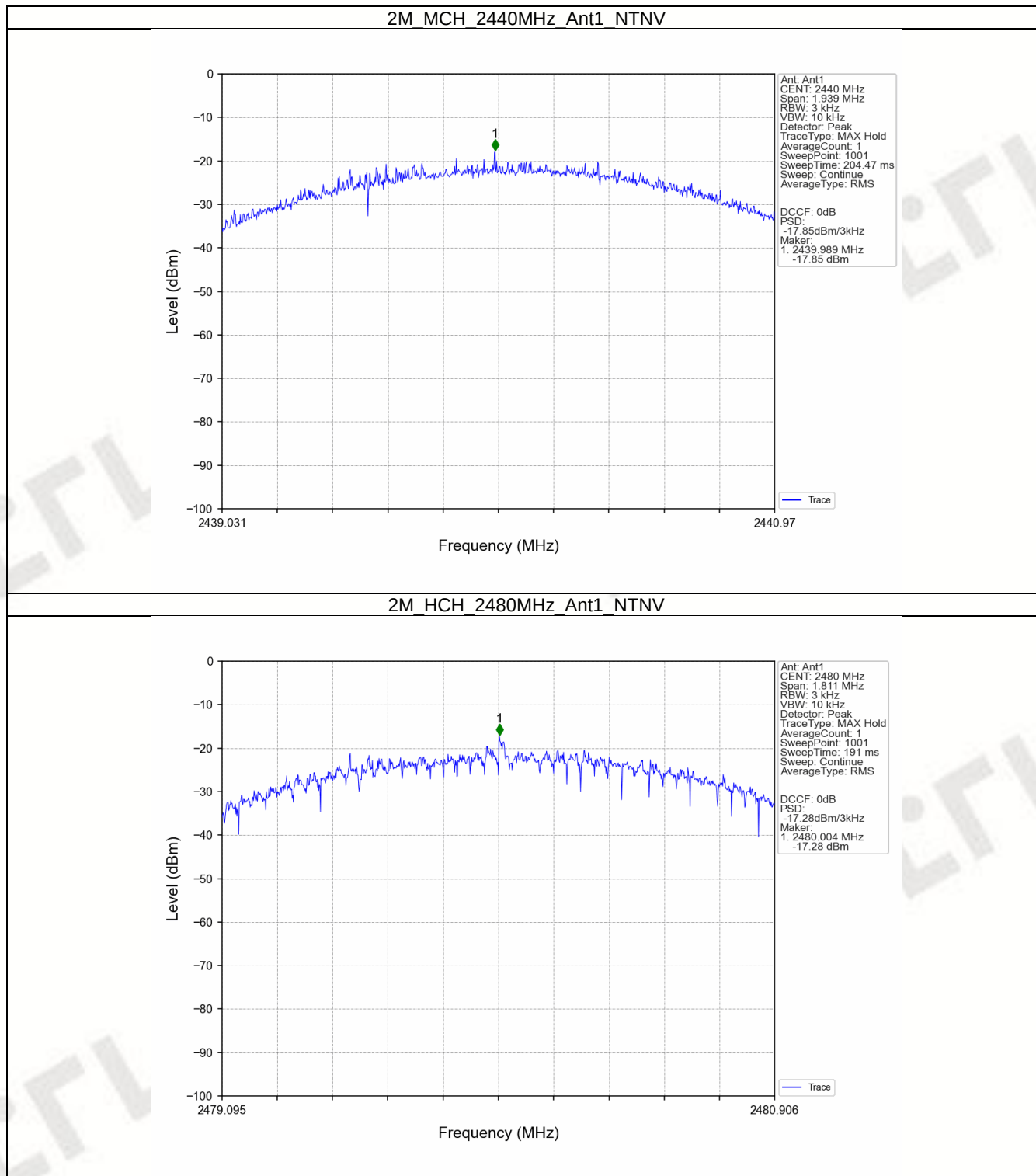
3.2.1 PSD



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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	-1.47
		2440	1	-0.46
		2480	1	-0.90
2M	SISO	2402	1	-2.01
		2440	1	-1.31
		2480	1	-1.59

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

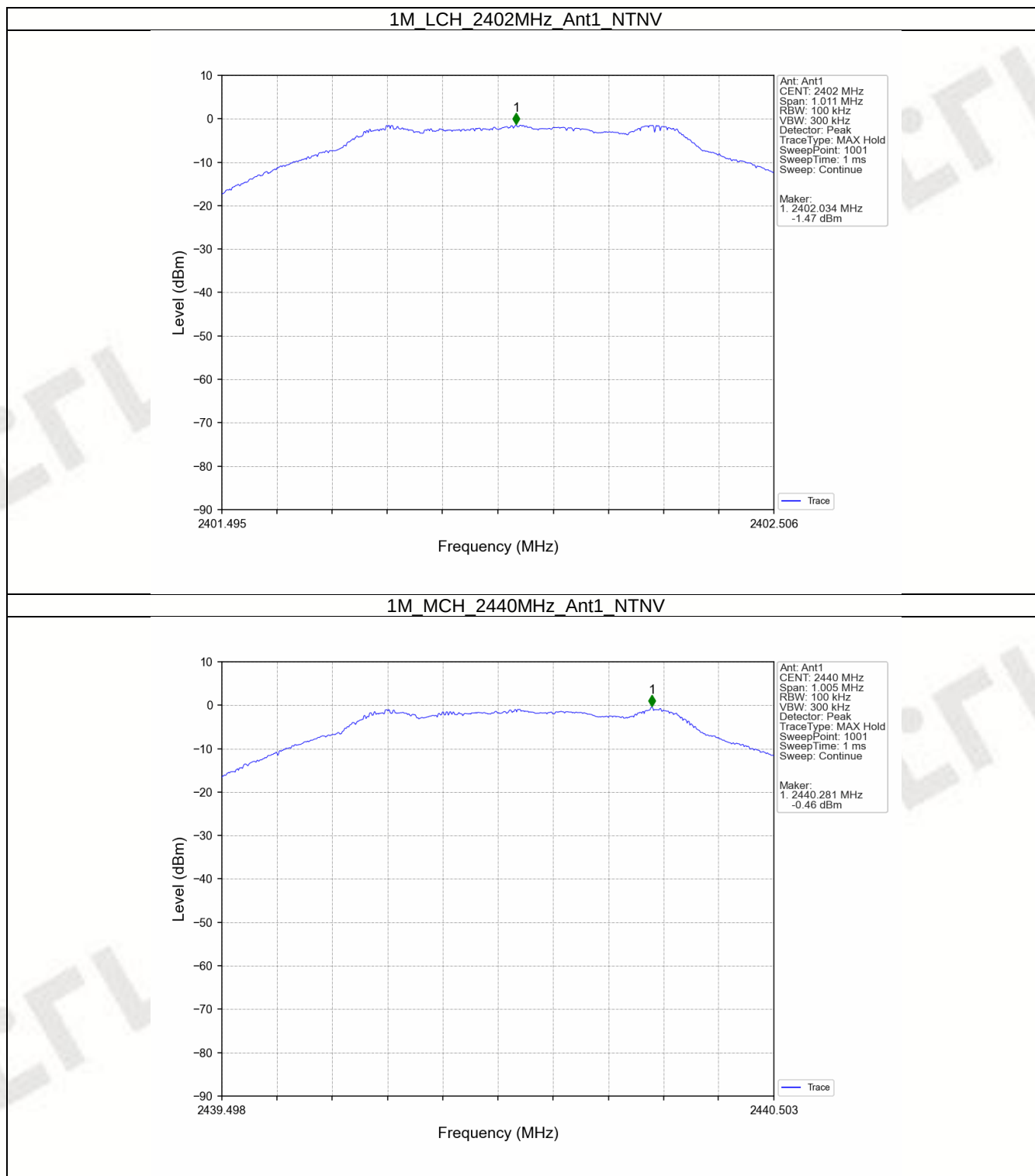
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
1M	SISO	2402	1	-0.46	-20.46	Pass
		2440	1	-0.46	-20.46	Pass
		2480	1	-0.46	-20.46	Pass
2M	SISO	2402	1	-1.31	-21.31	Pass
		2440	1	-1.31	-21.31	Pass
		2480	1	-1.31	-21.31	Pass

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.

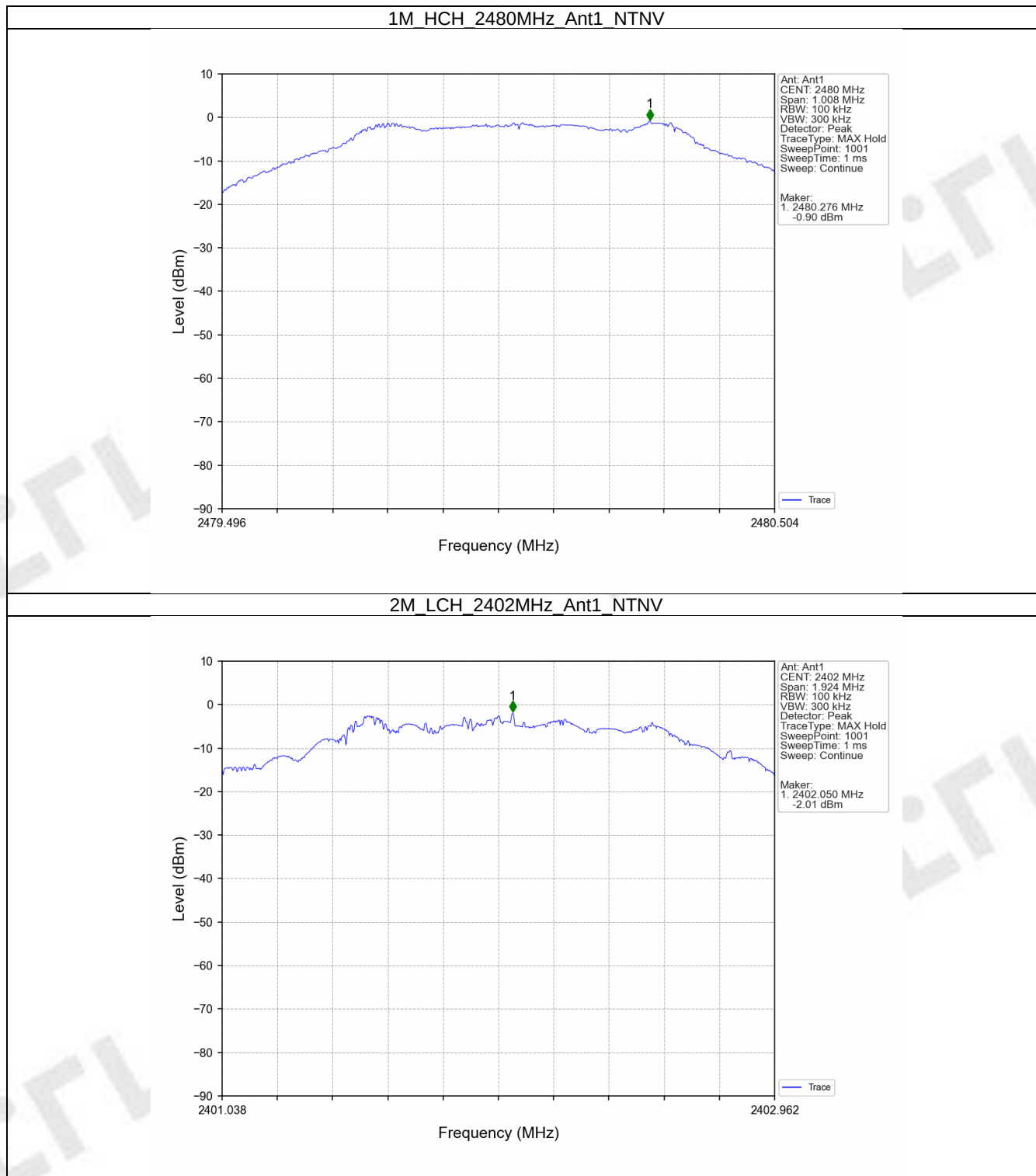
FCCID: 2AU4A-BMS100

4.2 Test Graph

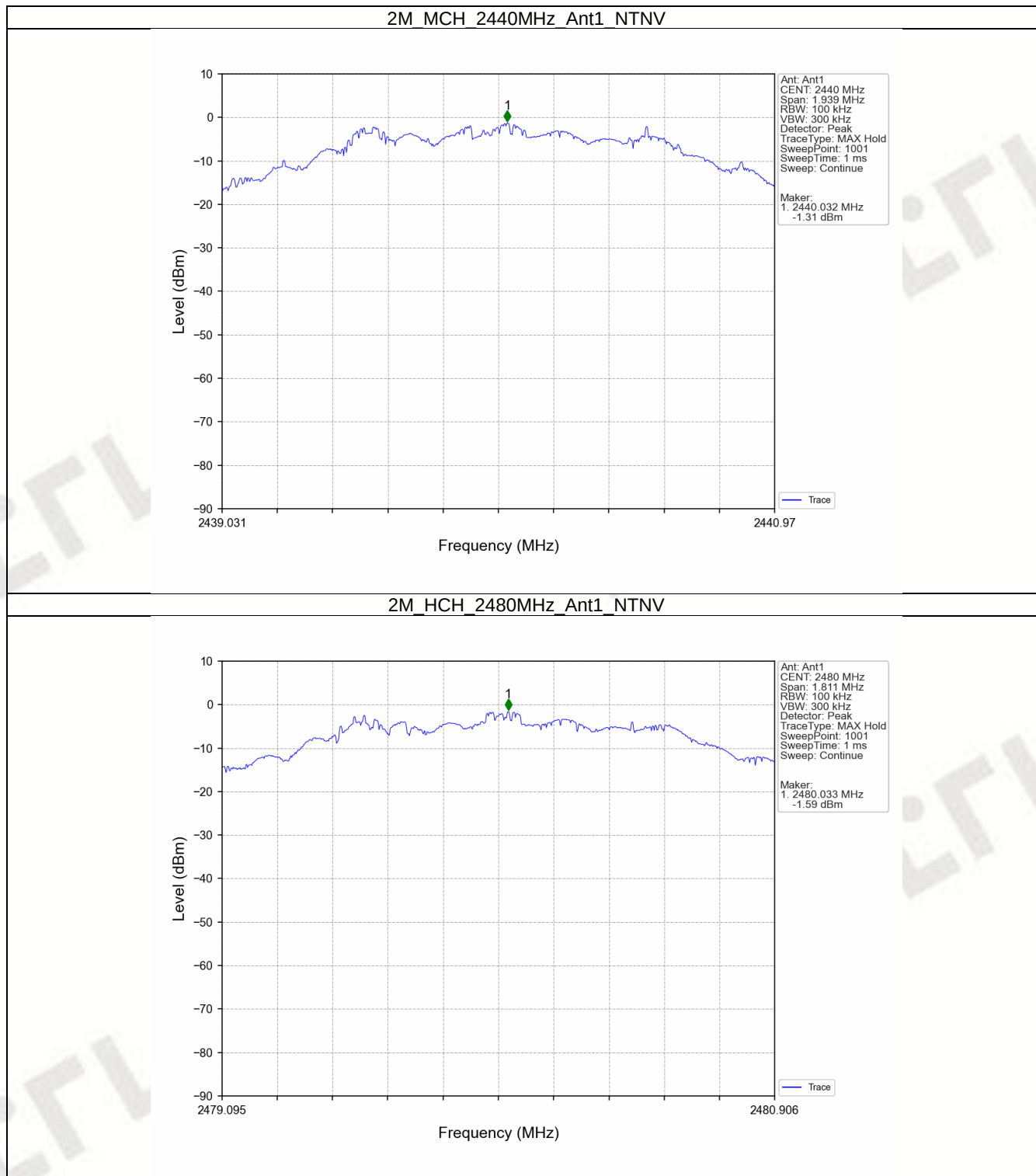
4.2.1 Ref



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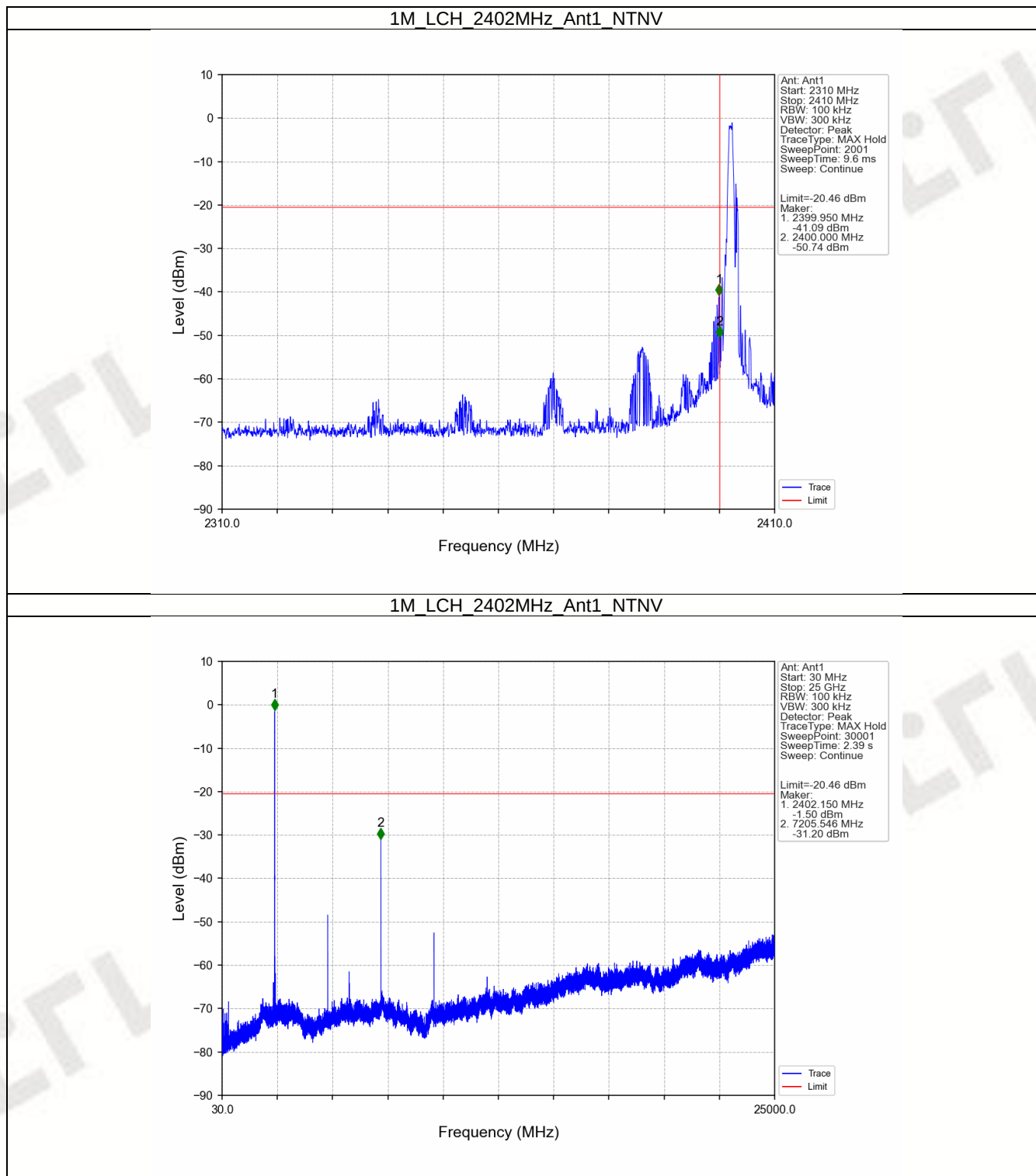


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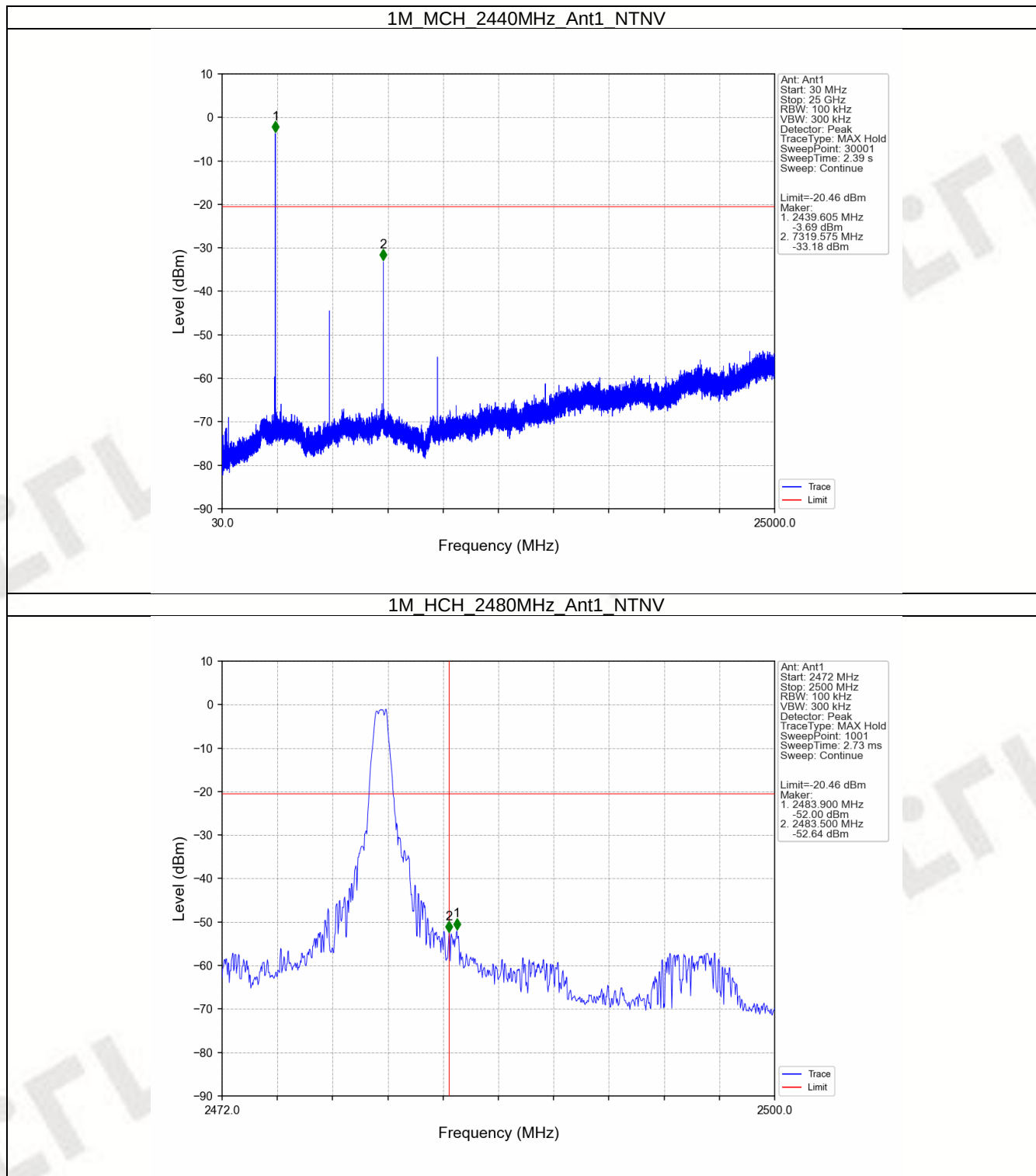


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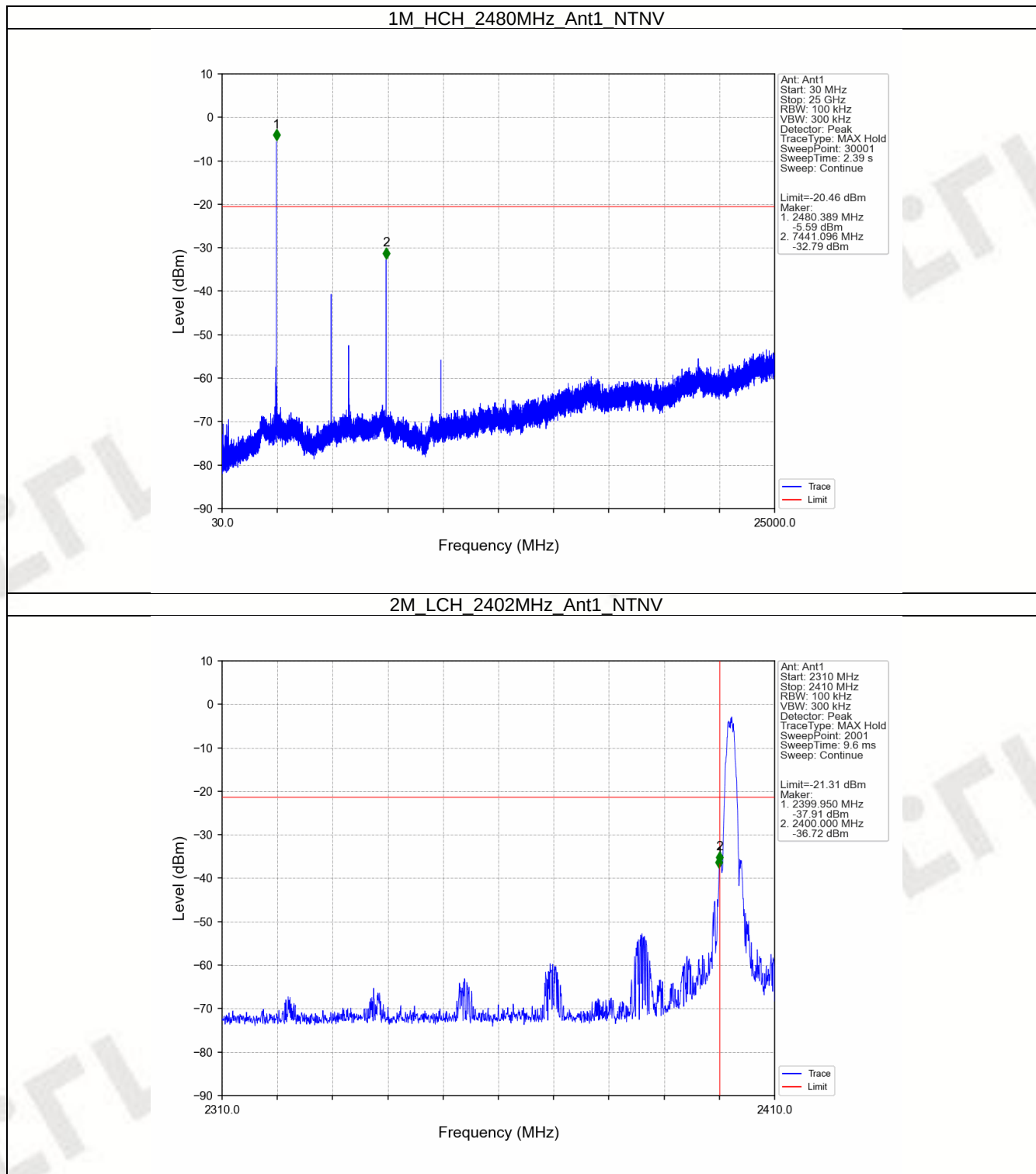
4.2.2 CSE



FCCID: 2AU4A-BMS100

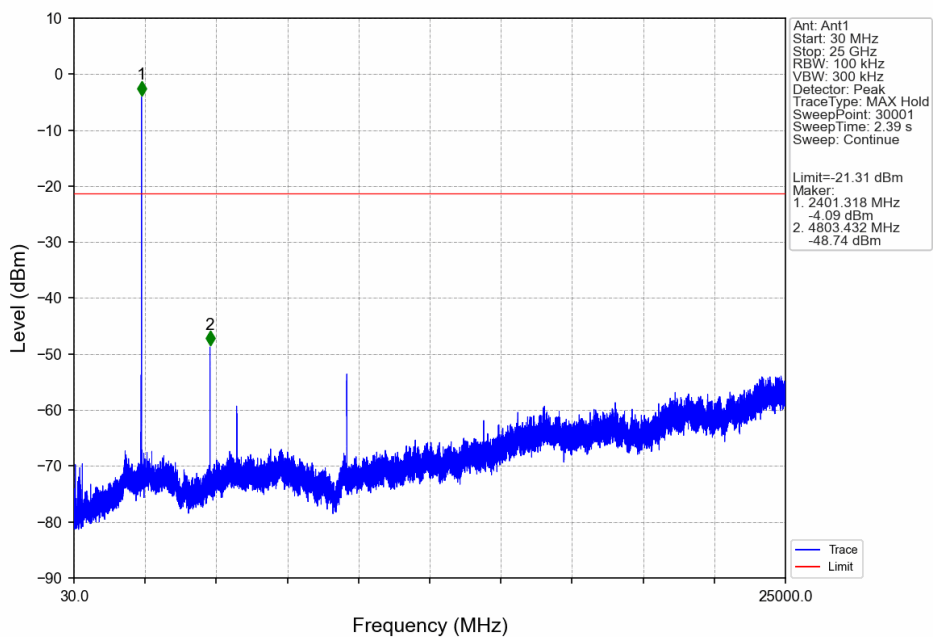


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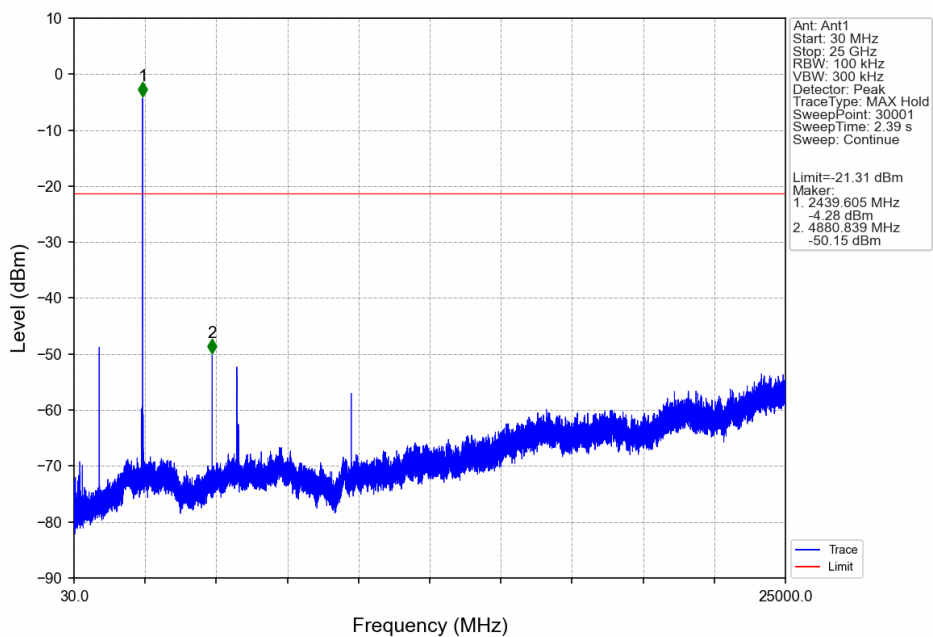


FCCID: 2AU4A-BMS100

2M LCH 2402MHz Ant1 NTN



2M_MCH_2440MHz_Ant1_NTN



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