

Appendix A for SHCR220300057801

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

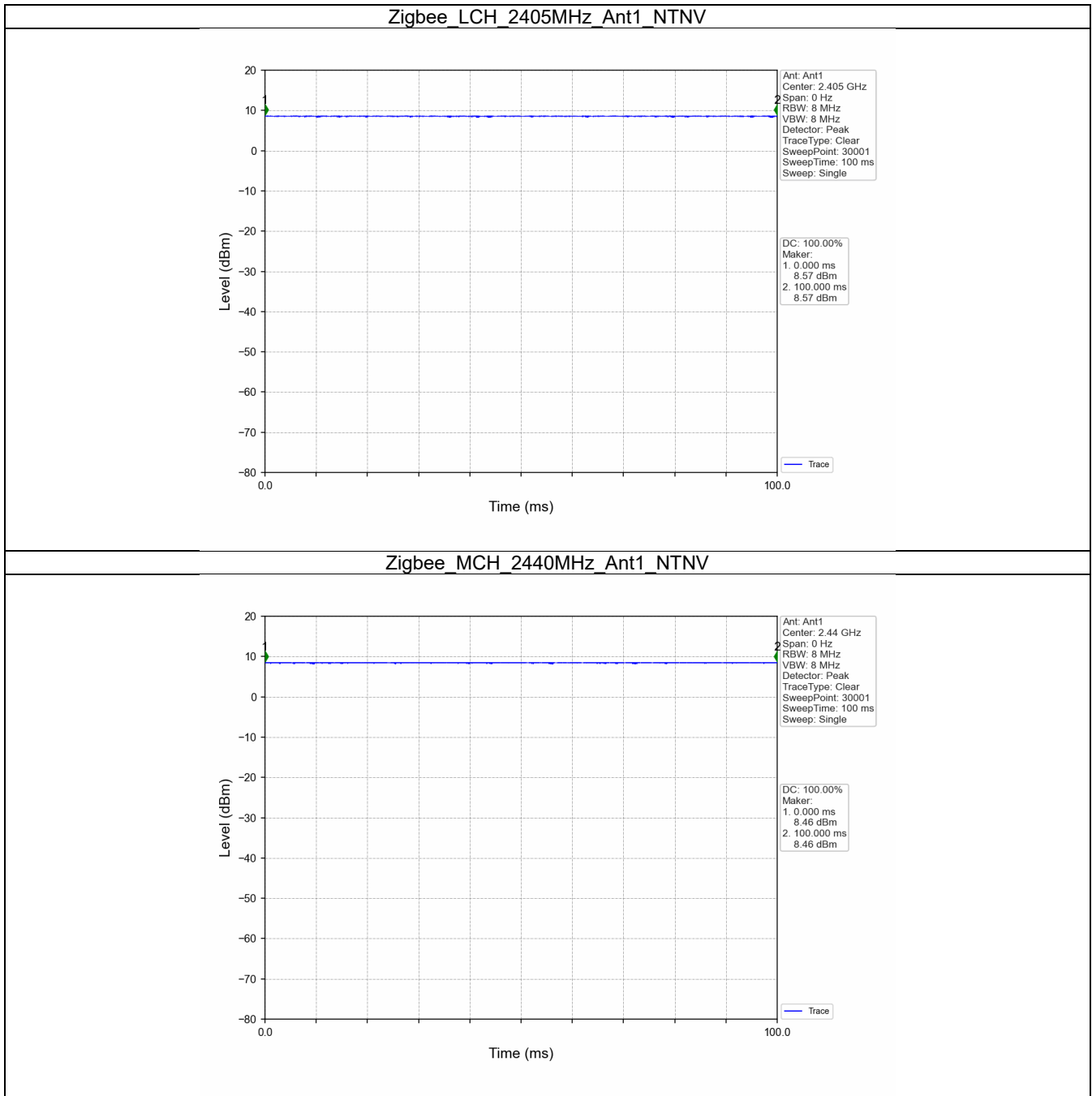
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
Zigbee	SISO	2405	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2475	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00



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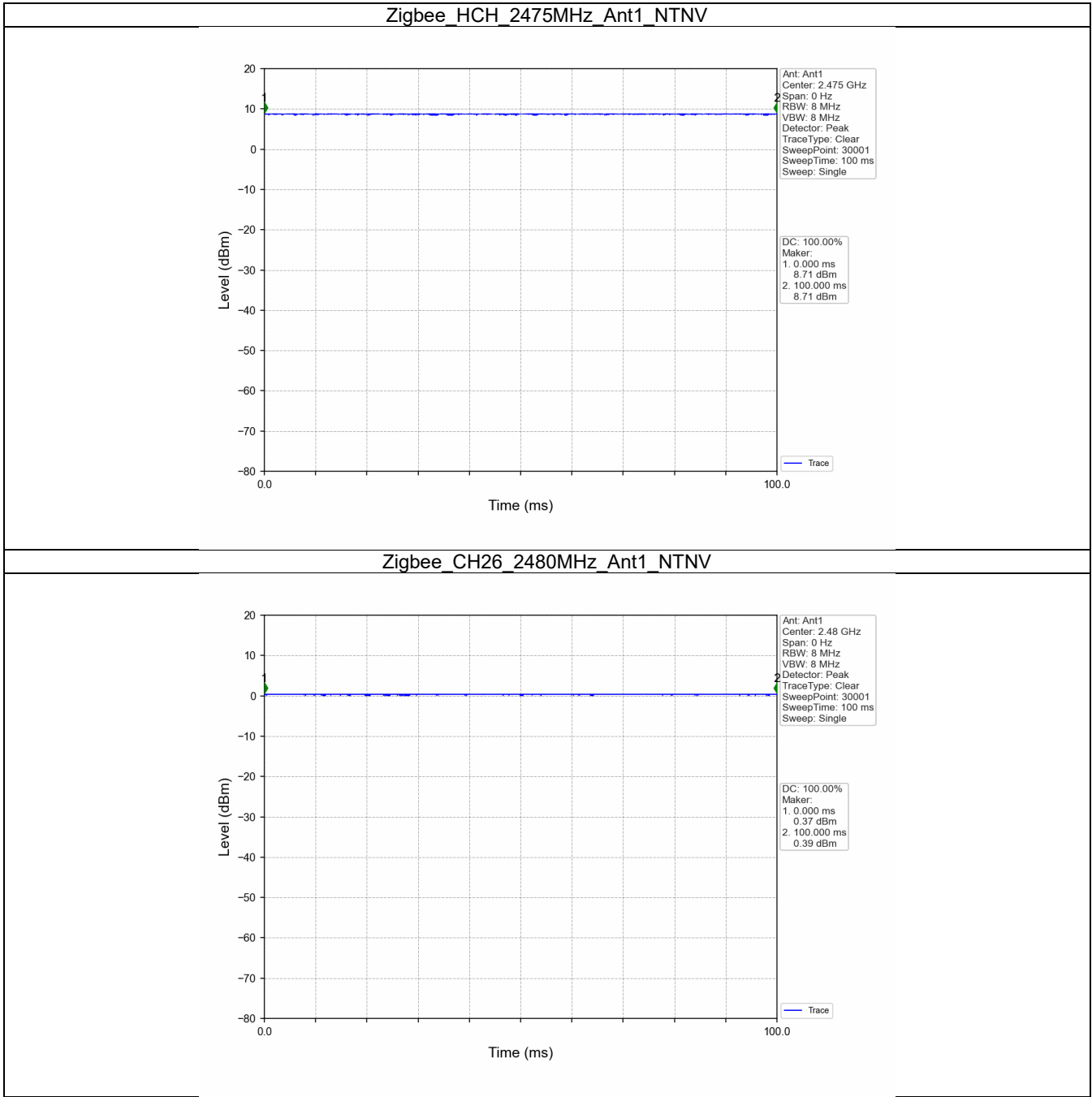
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1.1.2 Test Graph



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2. Bandwidth

2.1 OBW

2.1.1 Test Result

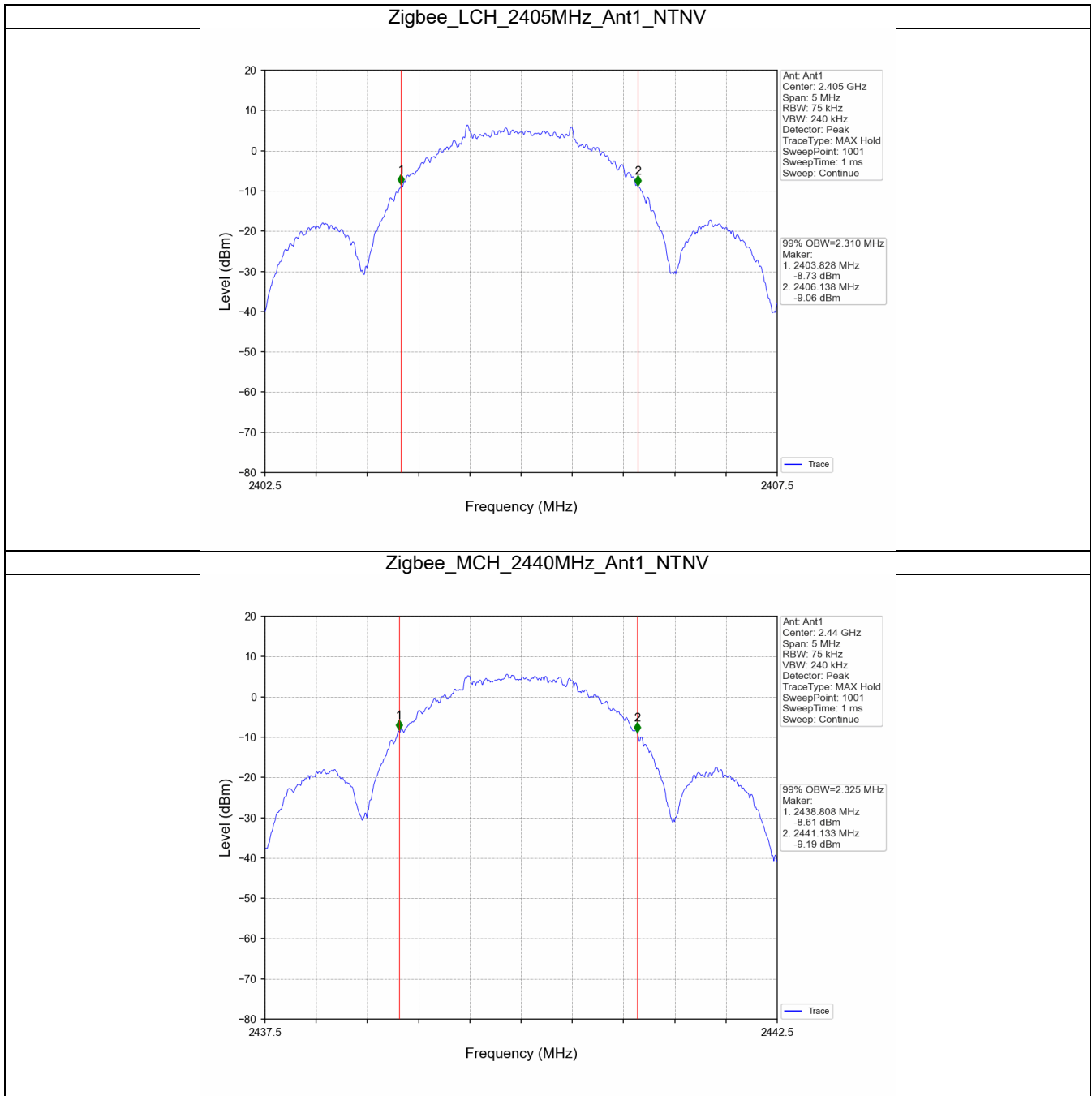
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
Zigbee	SISO	2405	1	2.310	Pass
		2440	1	2.325	Pass
		2475	1	2.327	Pass
		2480	1	2.316	Pass



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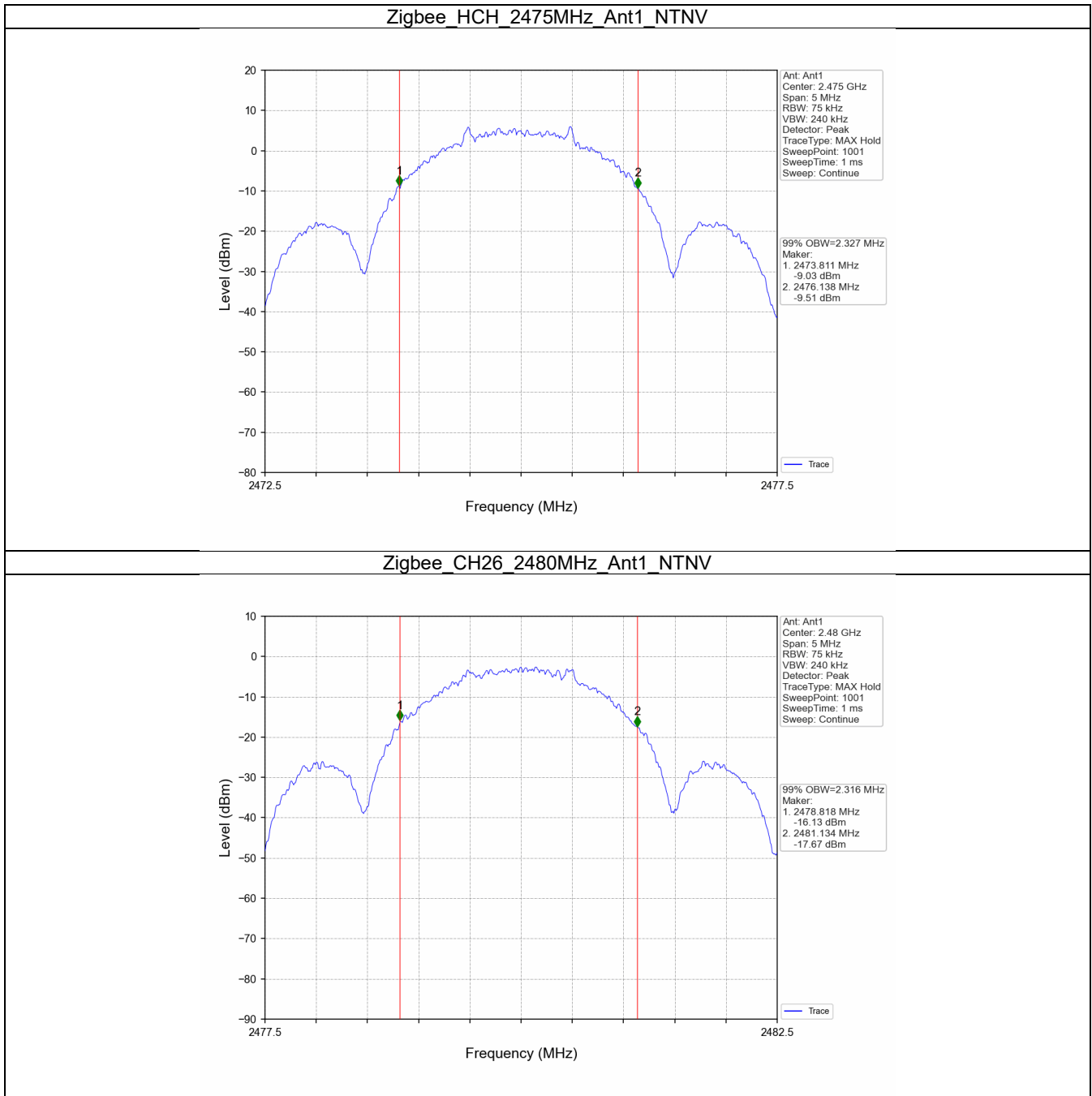
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2.1.2 Test Graph



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2.2 6dB BW

2.2.1 Test Result

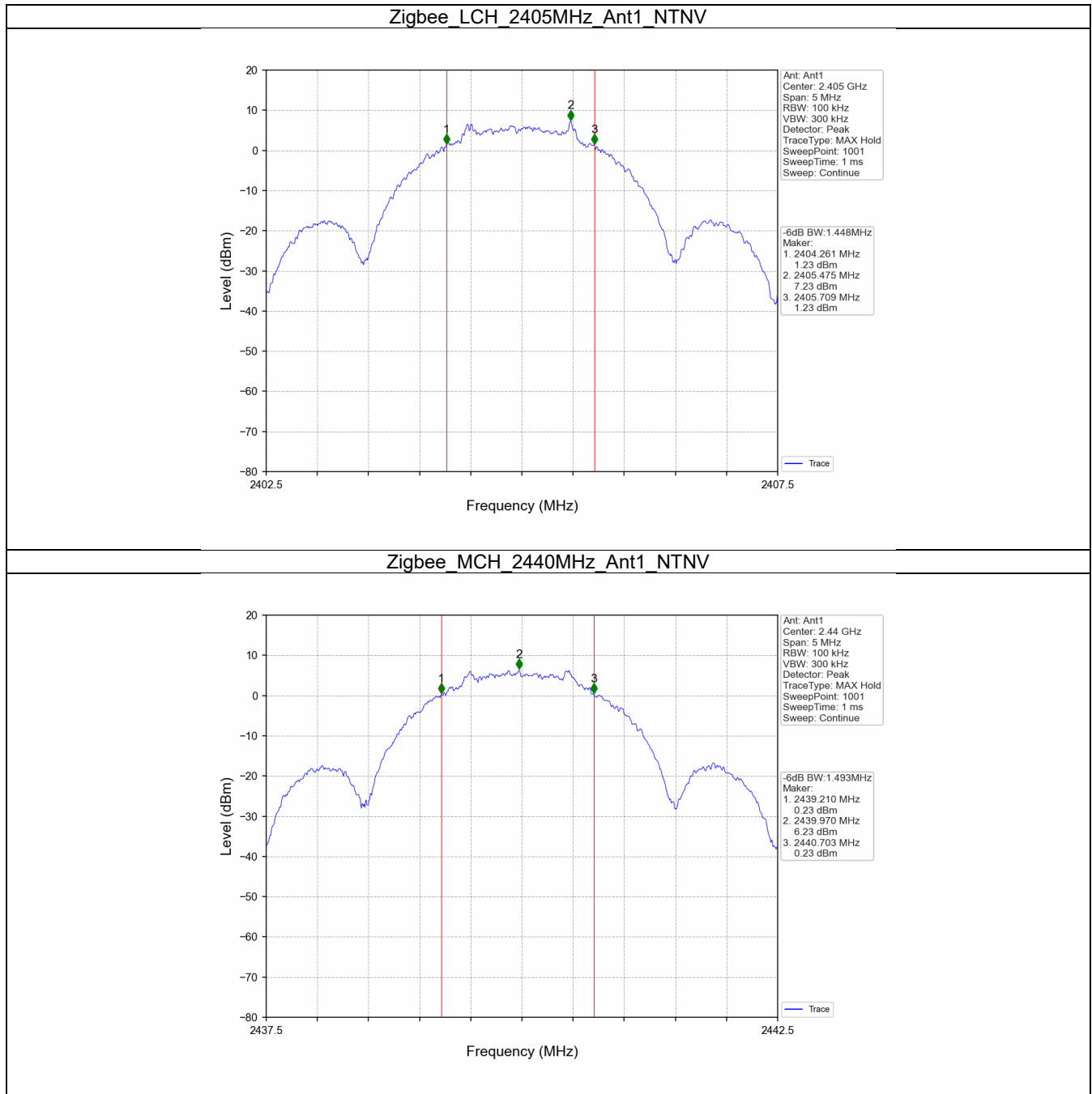
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
Zigbee	SISO	2405	1	1.448	>=0.5	Pass
		2440	1	1.493	>=0.5	Pass
		2475	1	1.418	>=0.5	Pass
		2480	1	1.432	>=0.5	Pass



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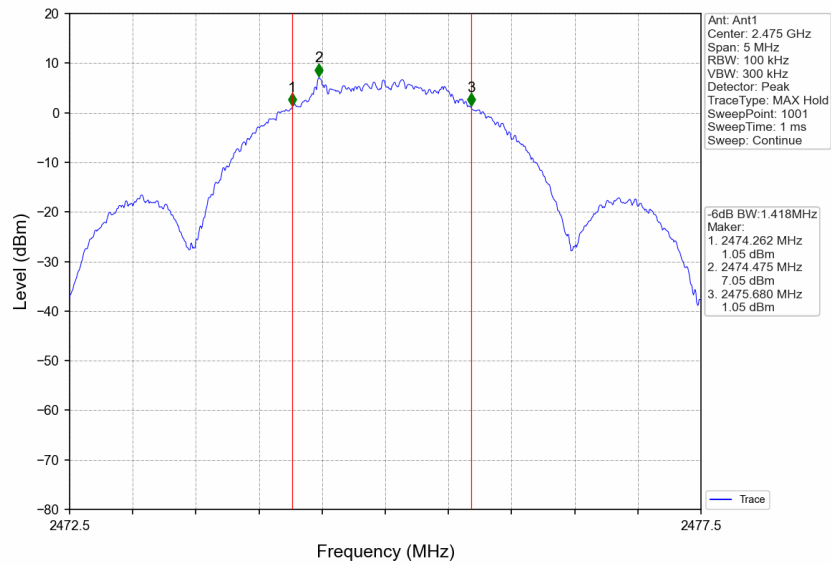
2.2.2 Test Graph



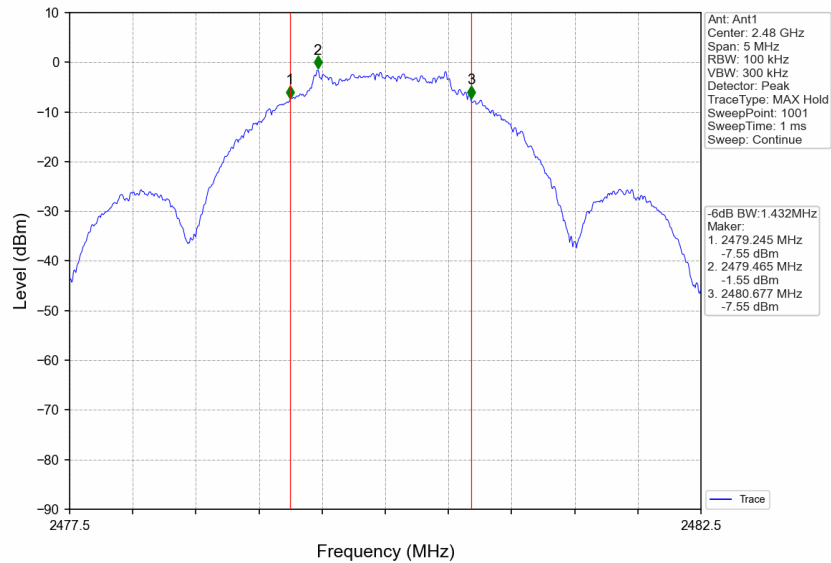
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Zigbee HCH 2475MHz Ant1 NTN



Zigbee CH26 2480MHz Ant1 NTN



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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			Ant1	Limit	
Zigbee	SISO	2405	8.39	<=30	Pass
		2440	8.29	<=30	Pass
		2475	8.52	<=30	Pass
		2480	0.23	<=30	Pass

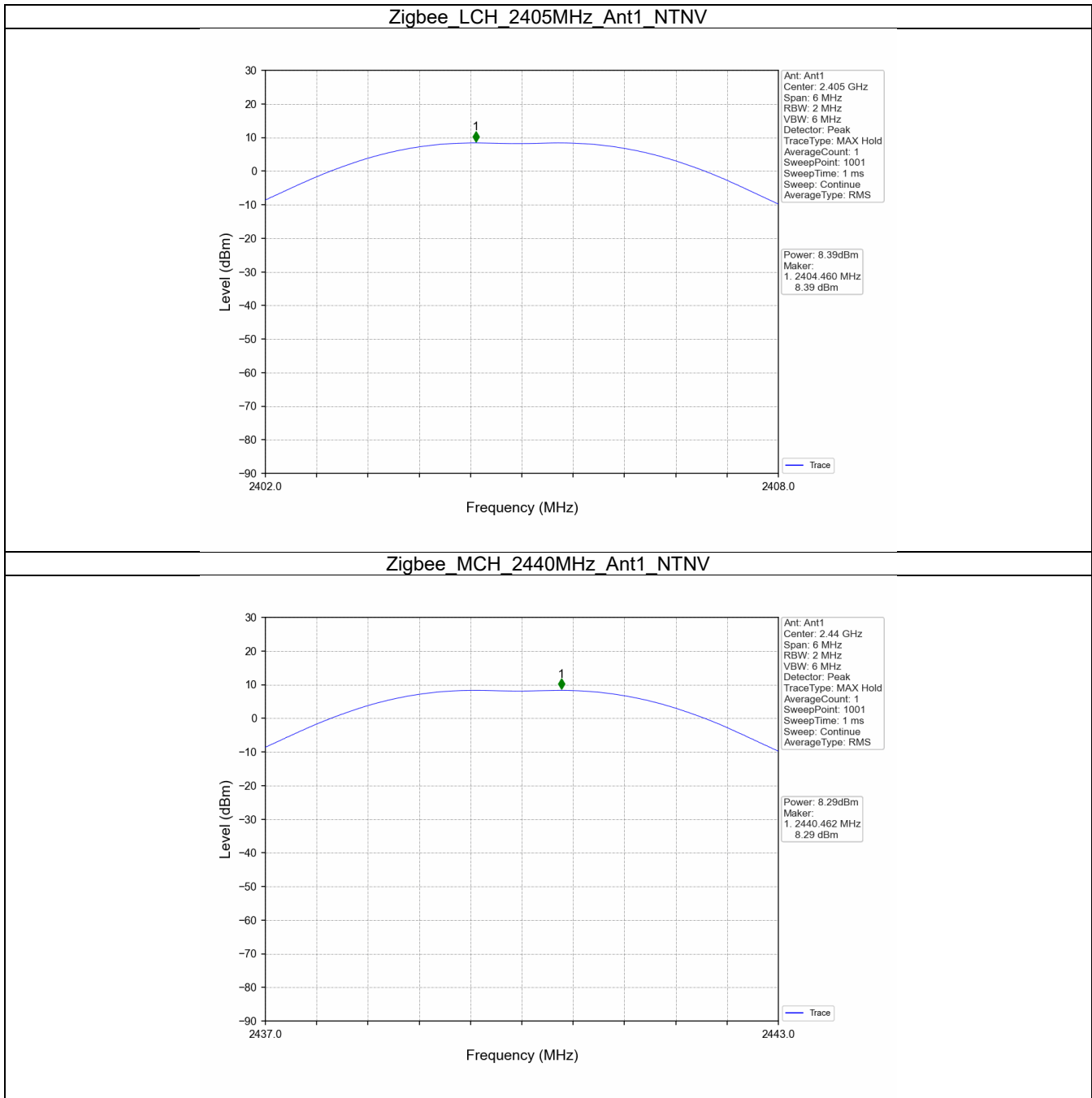
Note1: Antenna Gain: Ant1: 2.51dBi;



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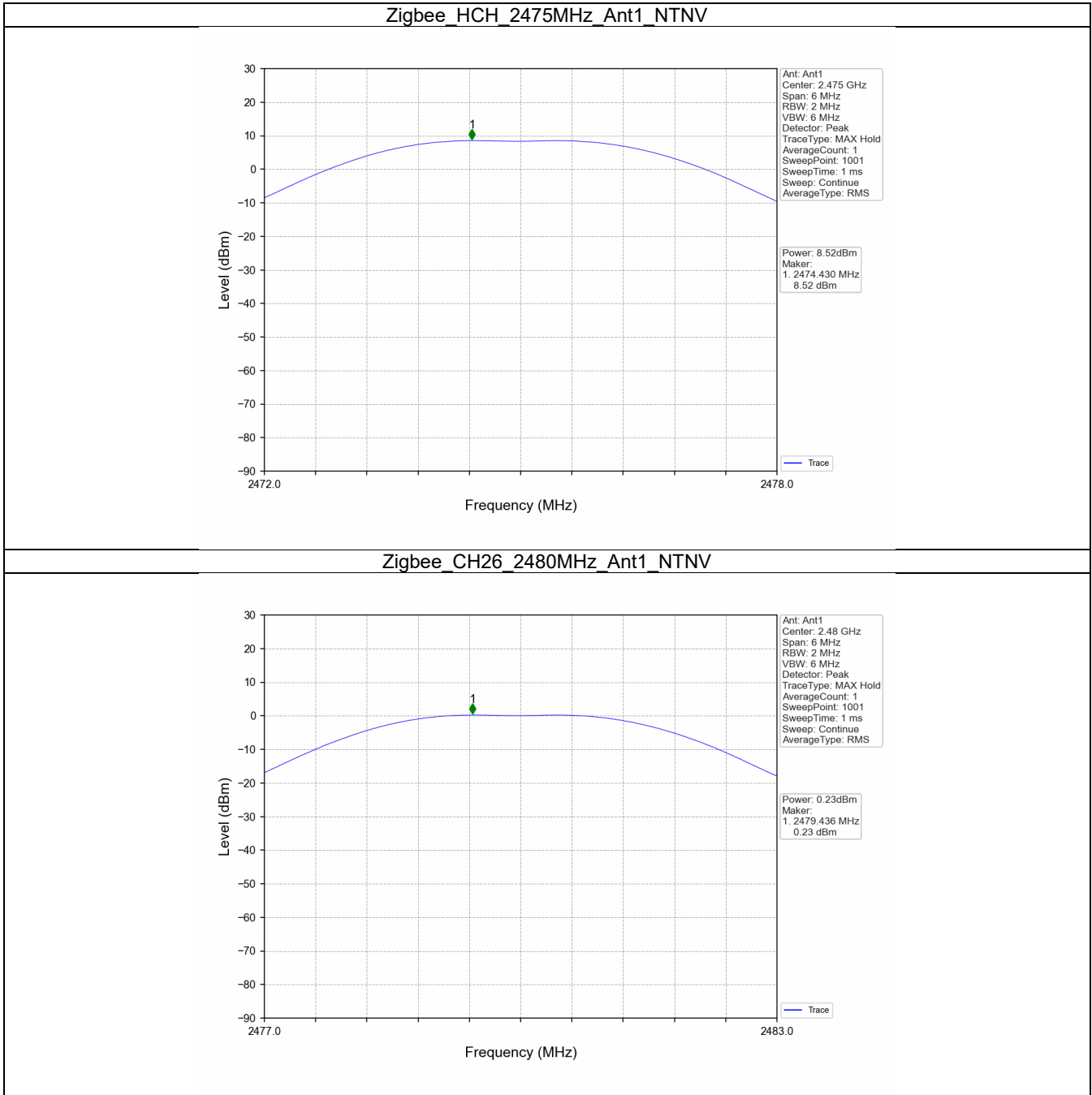
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3.1.2 Test Graph



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4. Maximum Power Spectral Density

4.1 PSD

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			Ant1	Limit	
Zigbee	SISO	2405	-4.90	<=8	Pass
		2440	-5.55	<=8	Pass
		2475	-4.34	<=8	Pass
		2480	-12.47	<=8	Pass

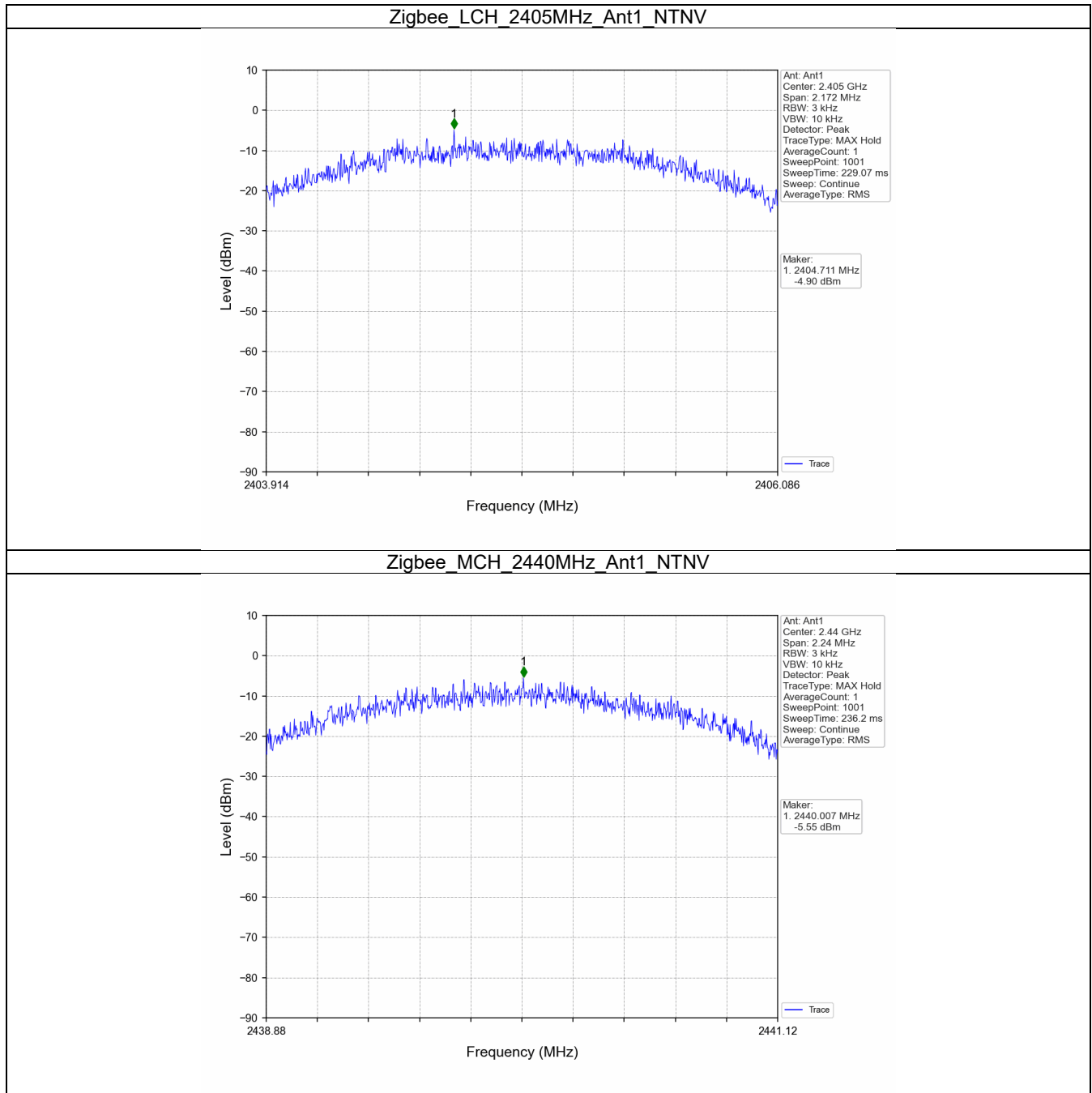
Note1: Antenna Gain: Ant1: 2.51dBi;



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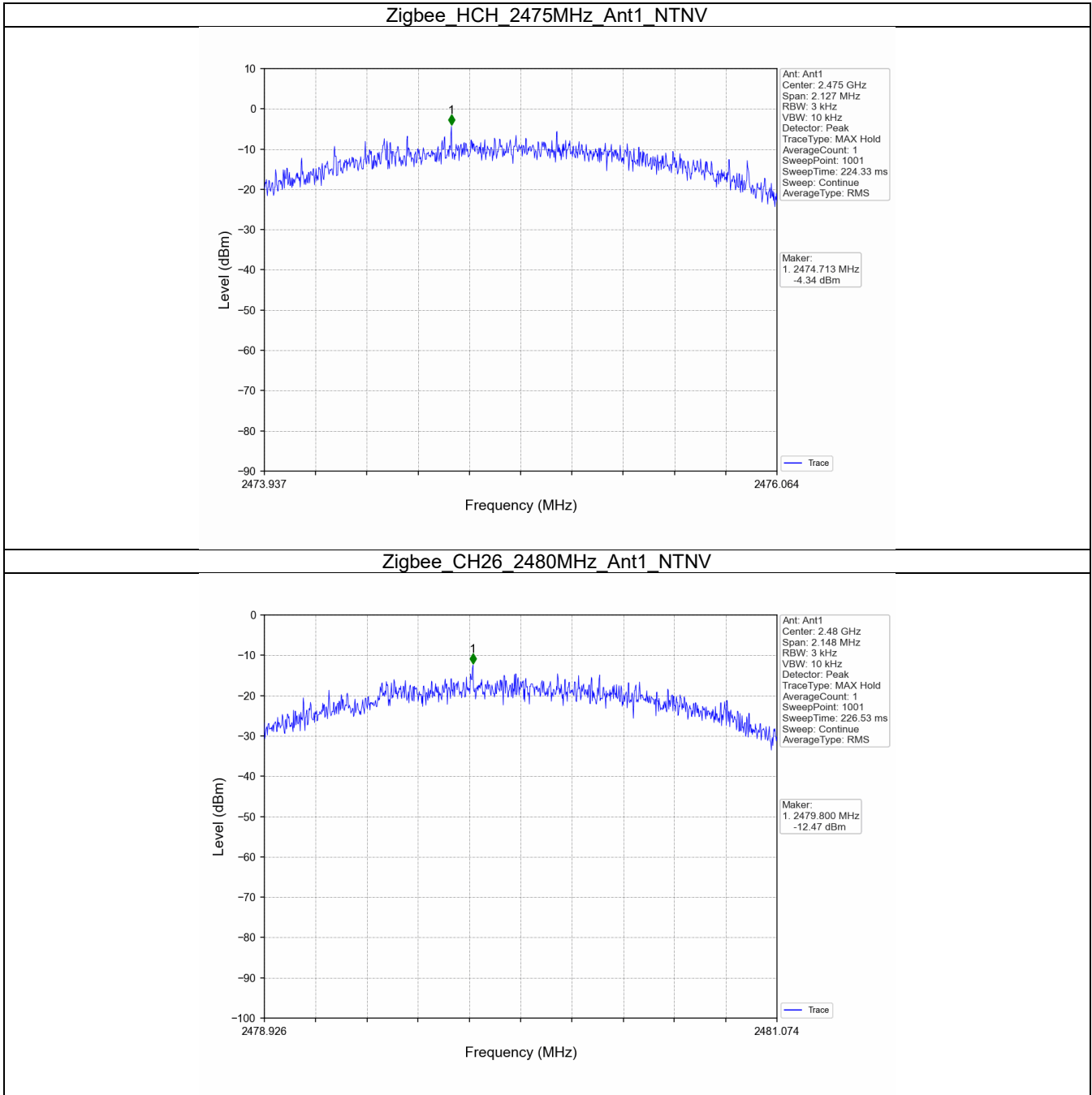
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4.1.2 Test Graph



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5. Unwanted Emissions In Non-restricted Frequency Bands

5.1 Ref

5.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)
Zigbee	SISO	2405	1	7.13
		2440	1	7.20
		2475	1	6.66
		2480	1	-1.31

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.

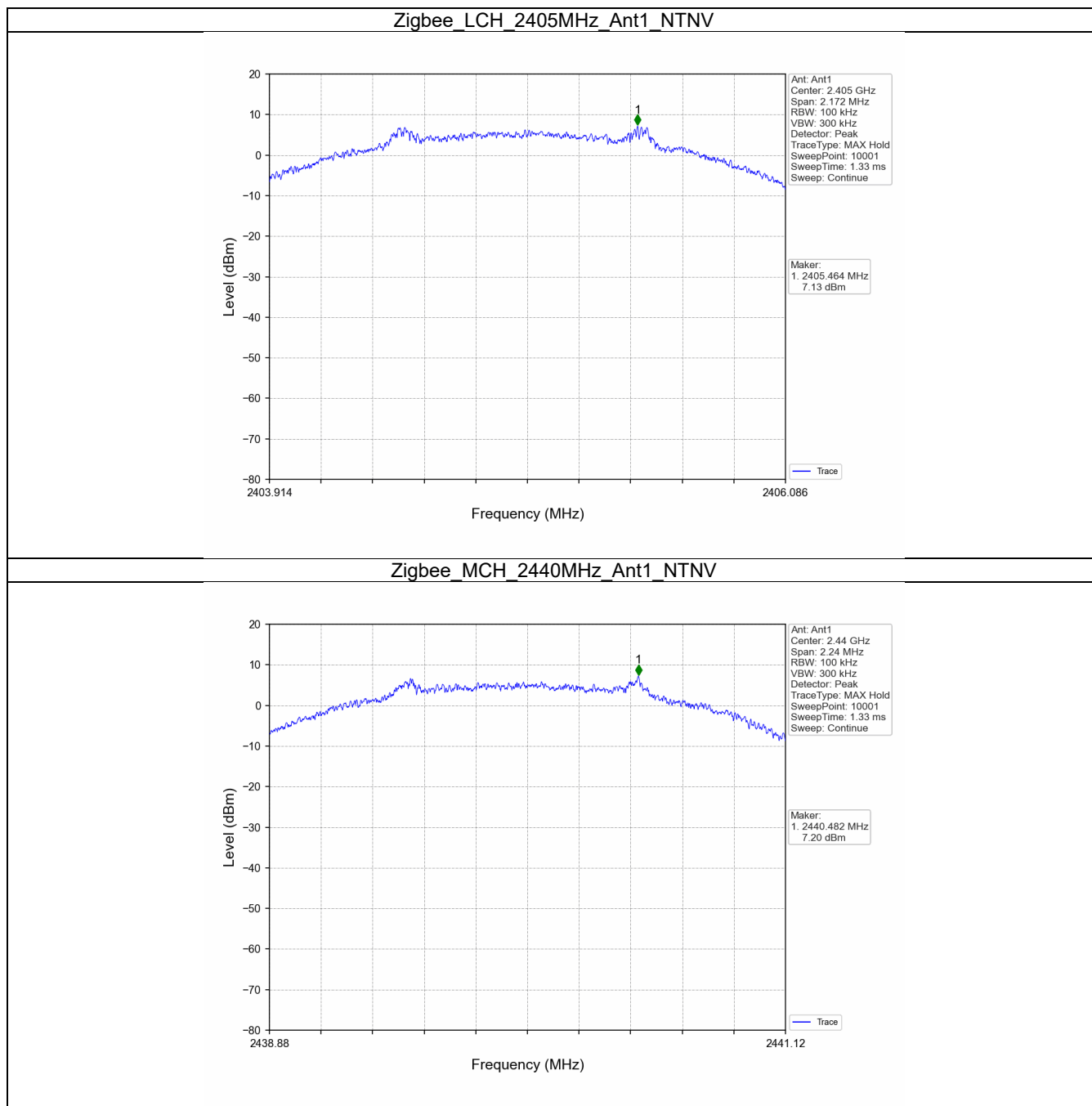
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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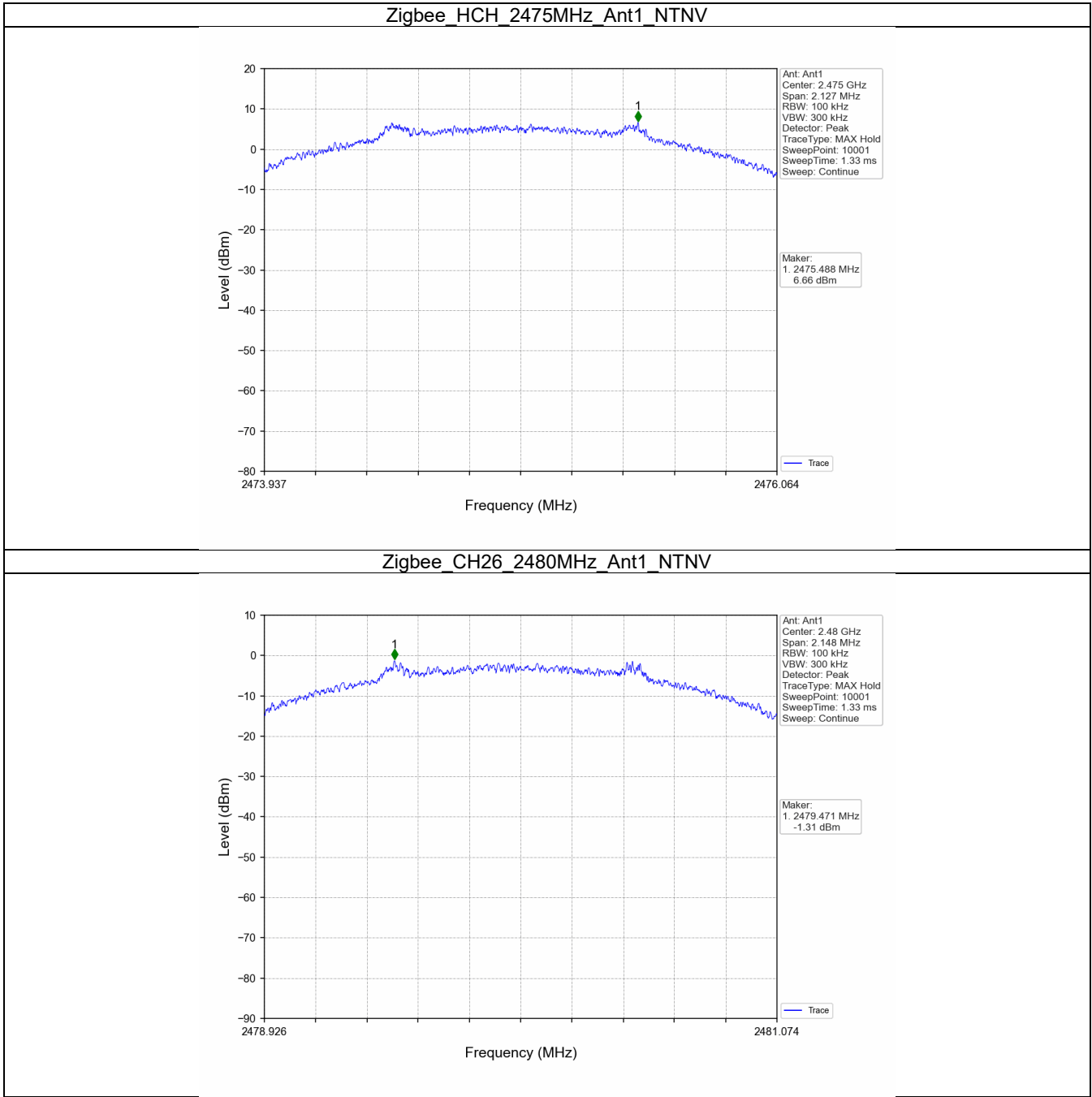
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5.1.2 Test Graph



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5.2 CSE

5.2.1 Test Result

Mode	TX Type	Frequency (MHz)	Ant	Level of Reference (dBm)	Limit (dBm)	Verdict
Zigbee	SISO	2405	1	7.20	-12.80	Pass
		2440	1	7.20	-12.80	Pass
		2475	1	7.20	-12.80	Pass
		2480	1	7.20	-12.80	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.

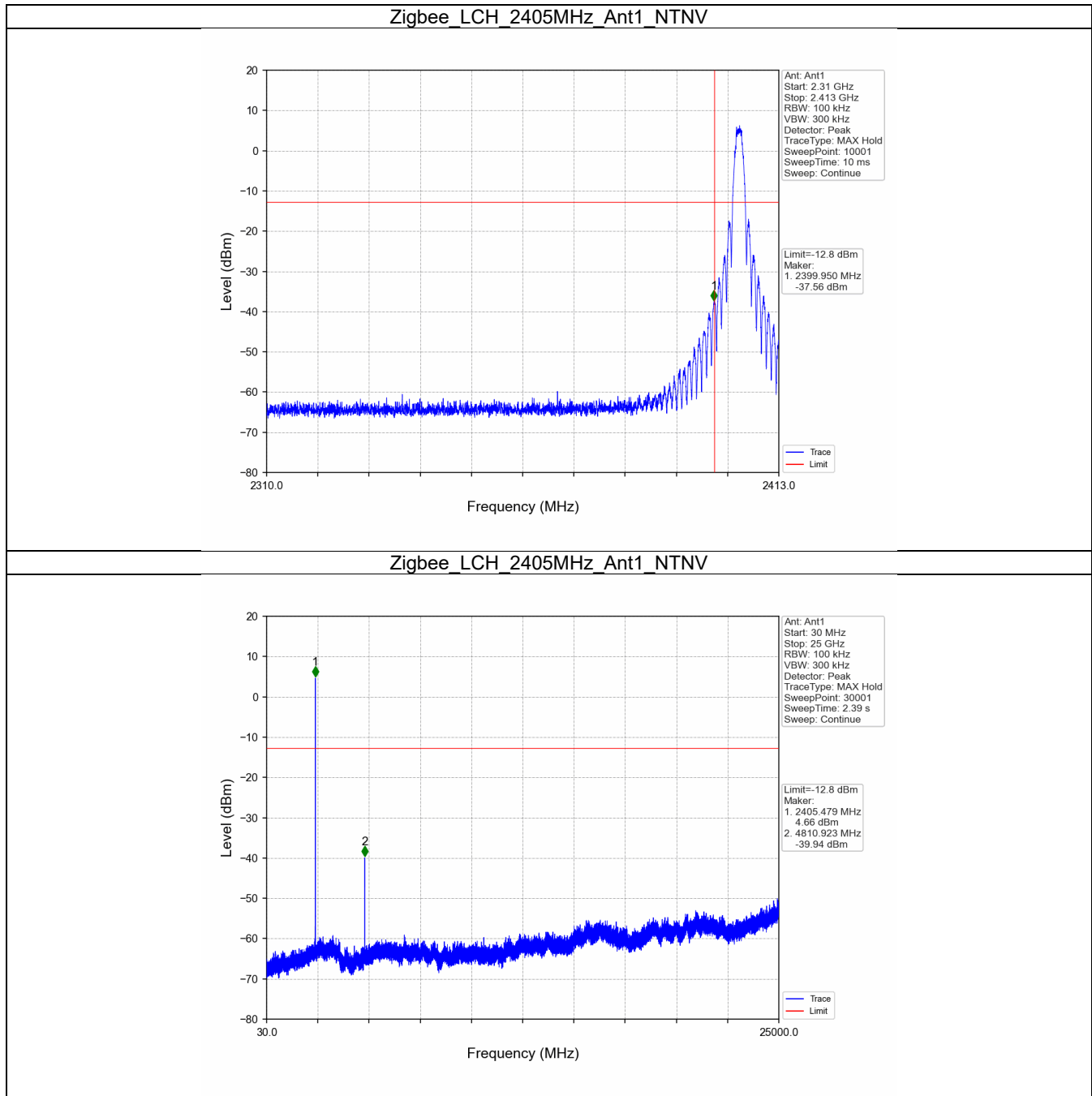
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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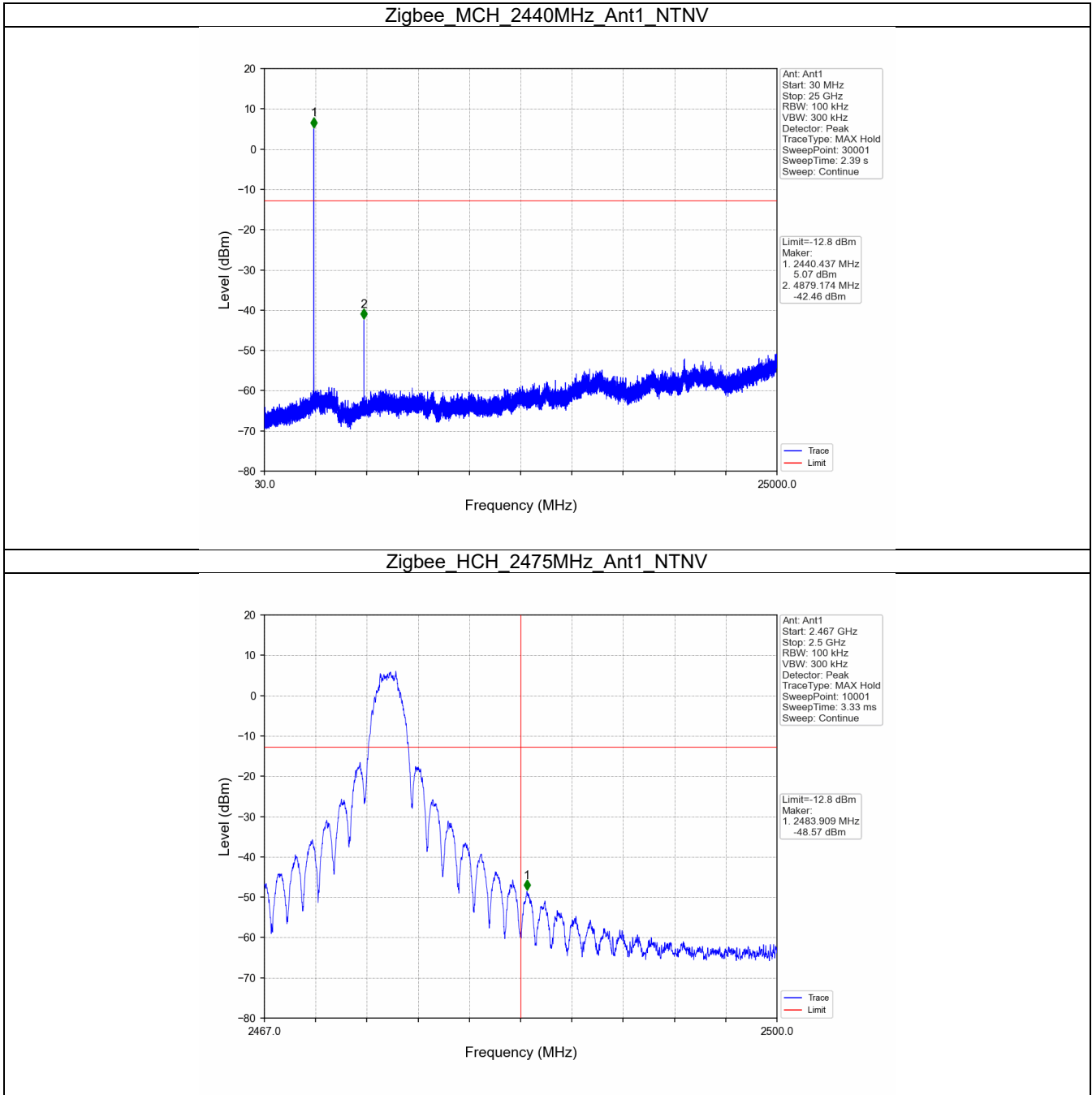
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5.2.2 Test Graph



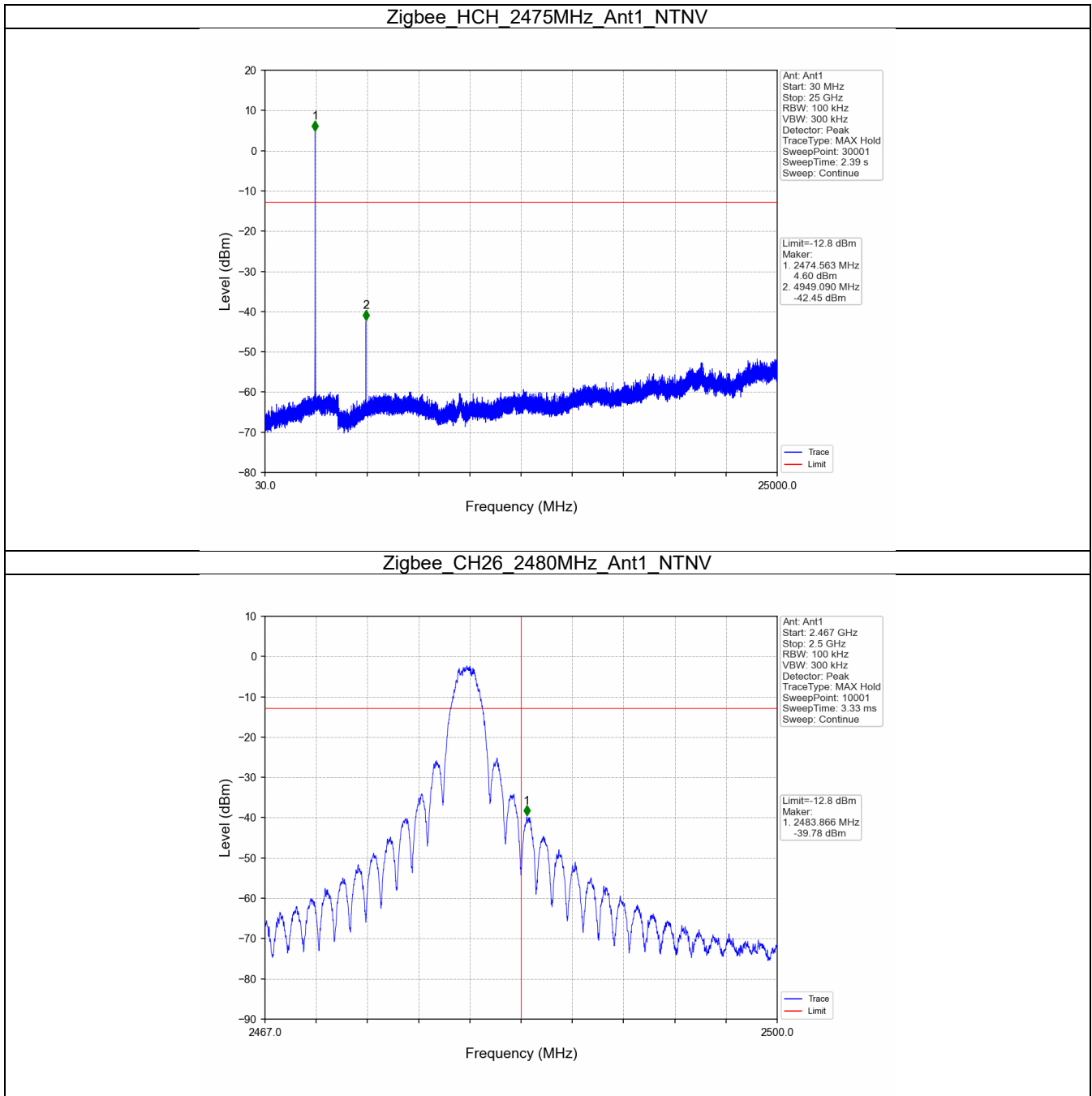
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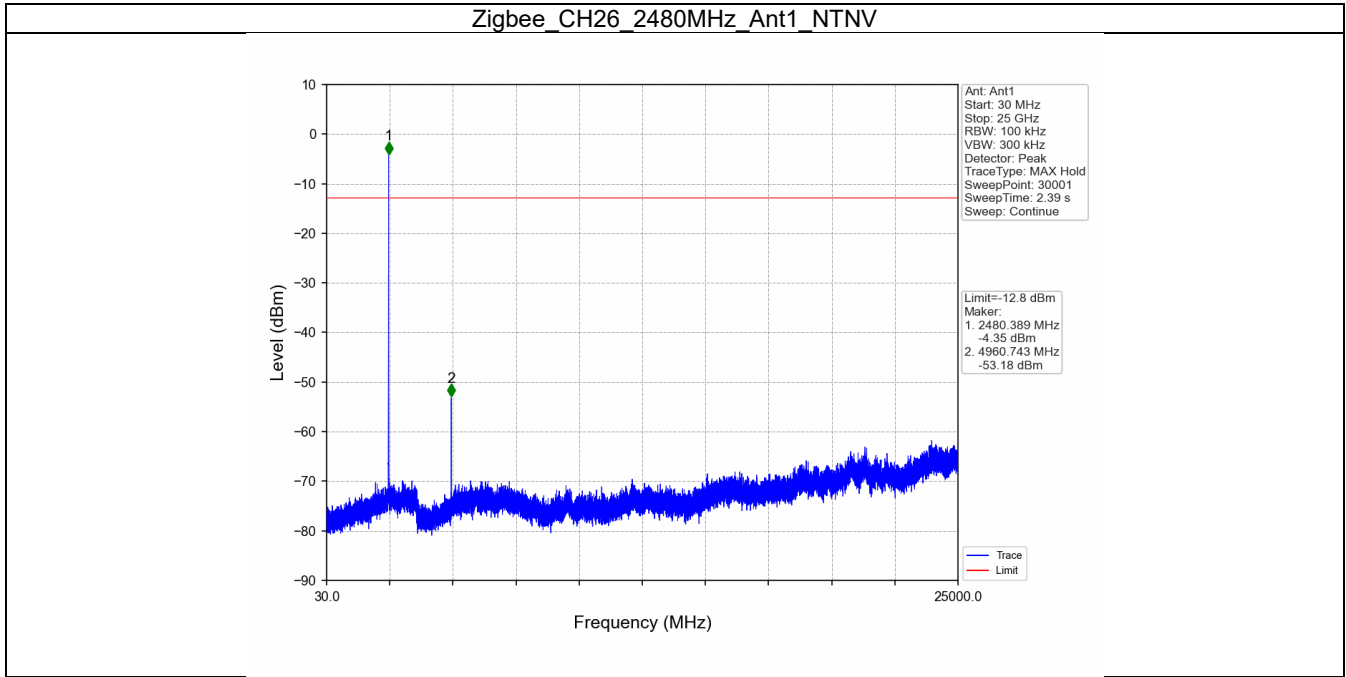
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