

Appendix A for SHCR220100019201

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

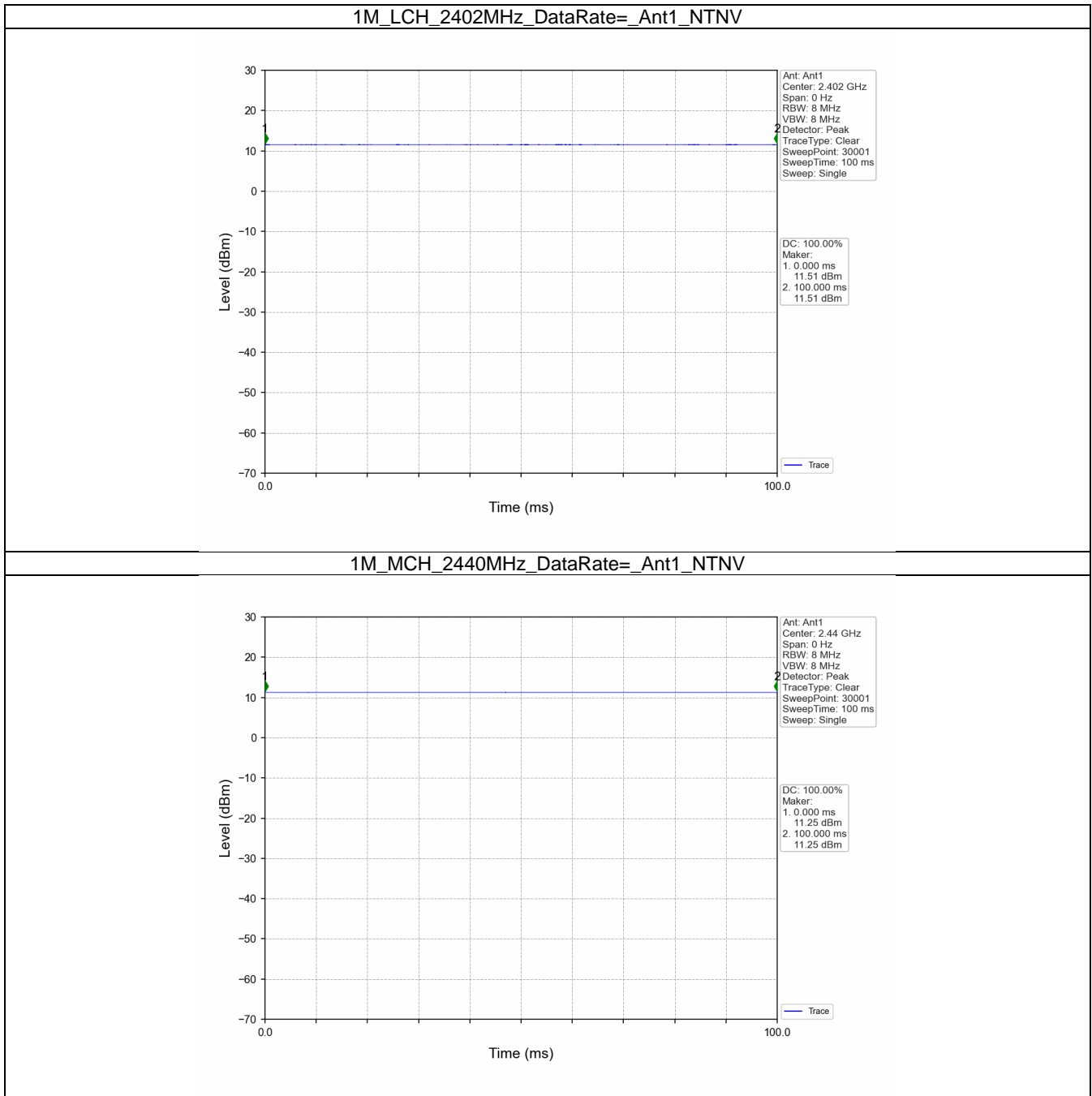
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
1M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	100.000	100.000	100.00	0.00	0.00
		2480	100.000	100.000	100.00	0.00	0.00
2M	SISO	2402	100.000	100.000	100.00	0.00	0.00
		2440	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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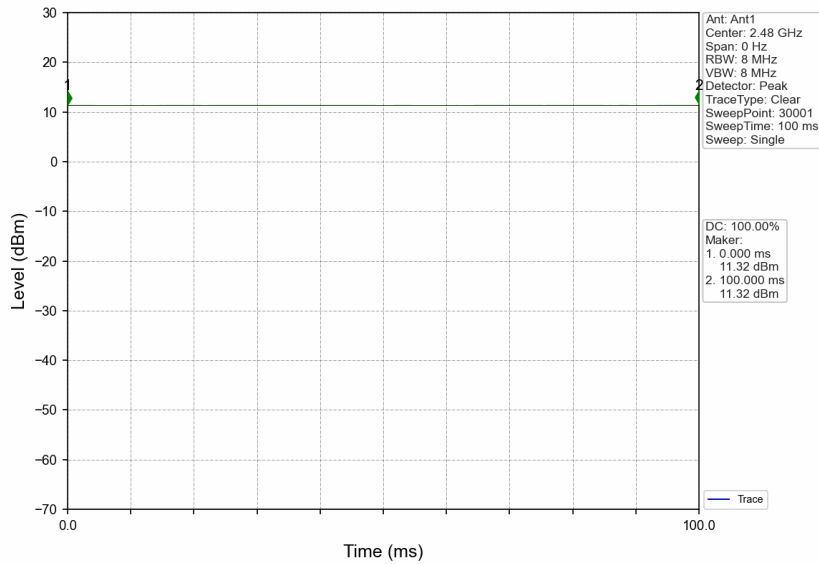
1.1.2 Test Graph



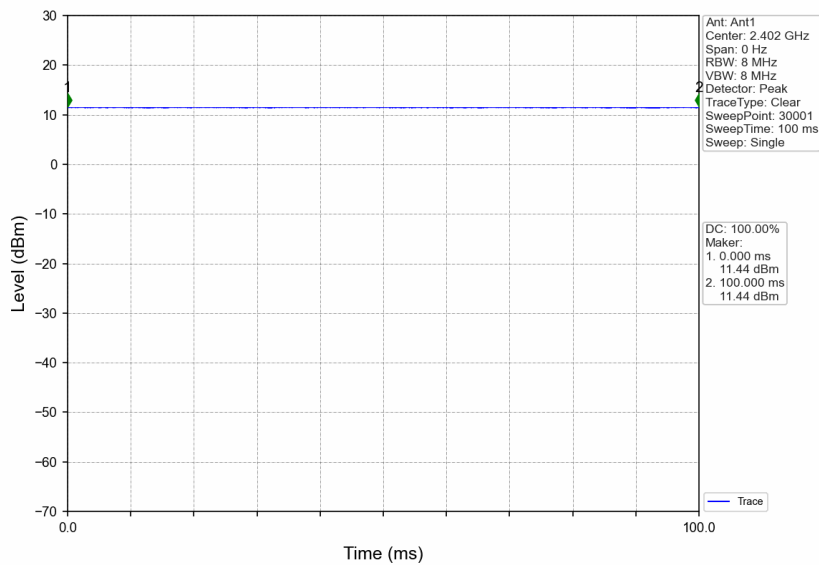
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1M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



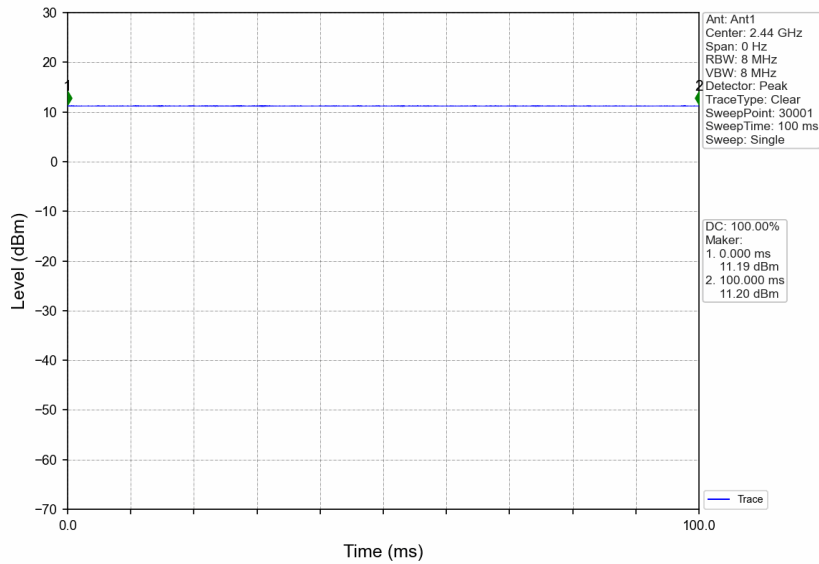
2M\_LCH\_2402MHz\_DataRate=\_ Ant1\_NTNV



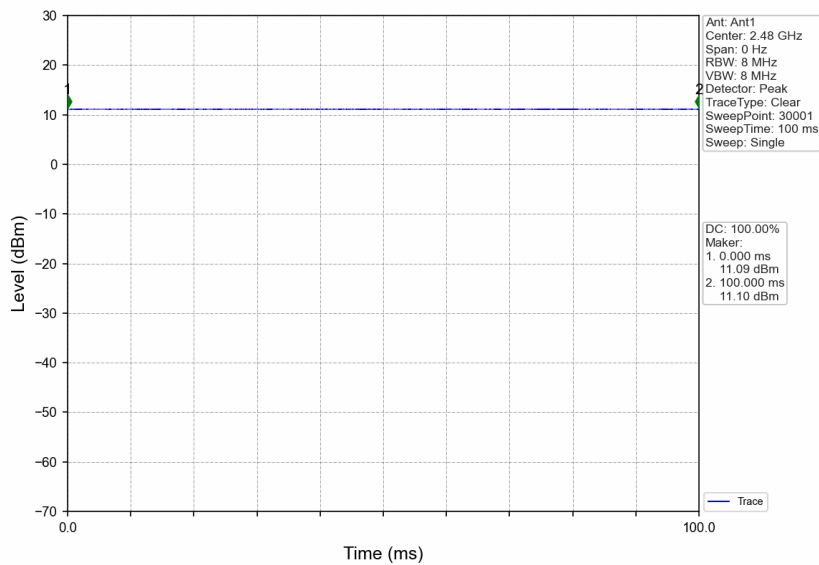
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2M\_MCH\_2440MHz\_DataRate=\_ Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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## 2. Bandwidth

### 2.1 OBW

#### 2.1.1 Test Result

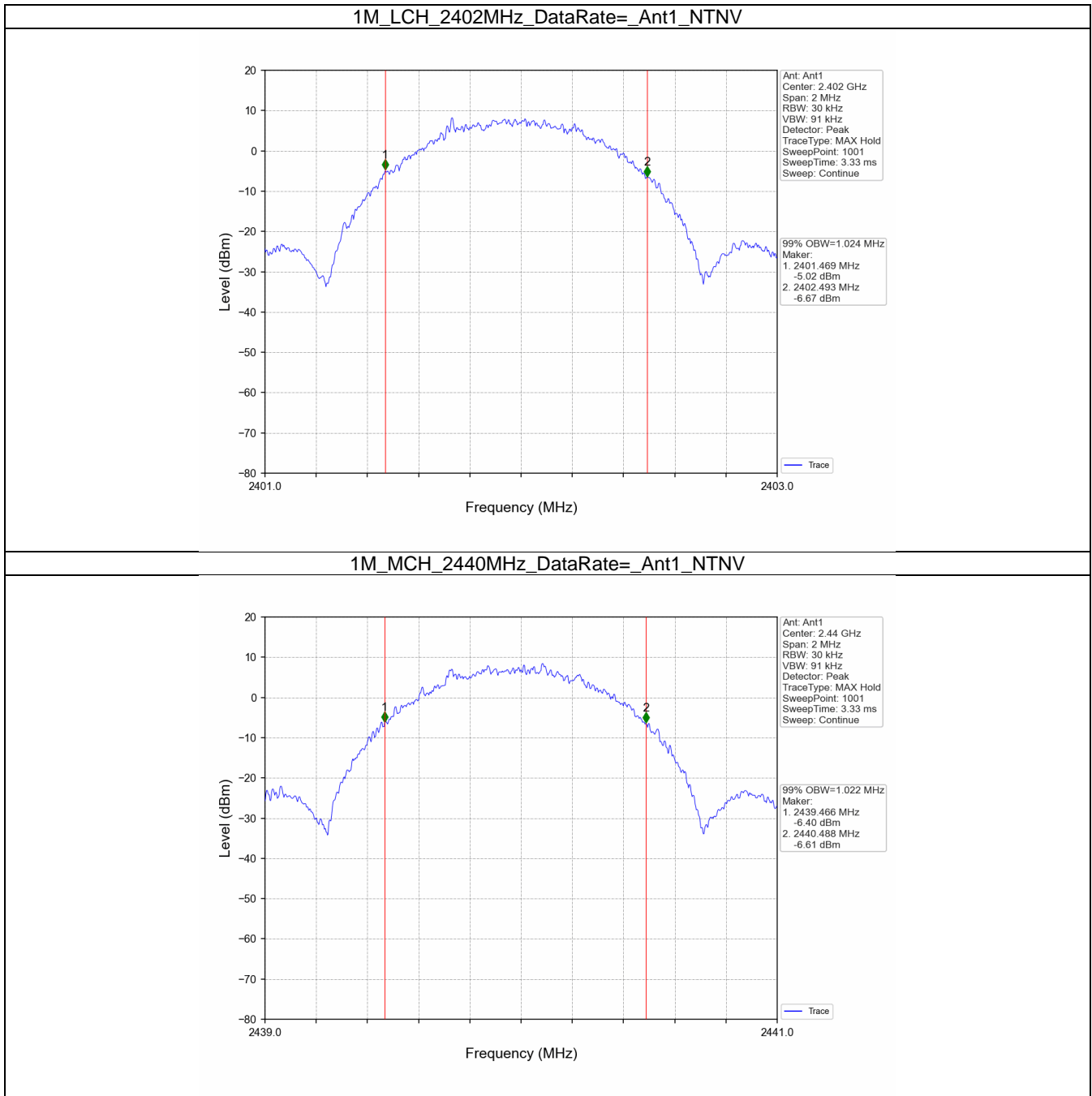
Mode	TX Type	Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Verdict
				Result	
1M	SISO	2402	1	1.024	Pass
		2440	1	1.022	Pass
		2480	1	1.015	Pass
2M	SISO	2402	1	2.047	Pass
		2440	1	2.030	Pass
		2480	1	2.044	Pass



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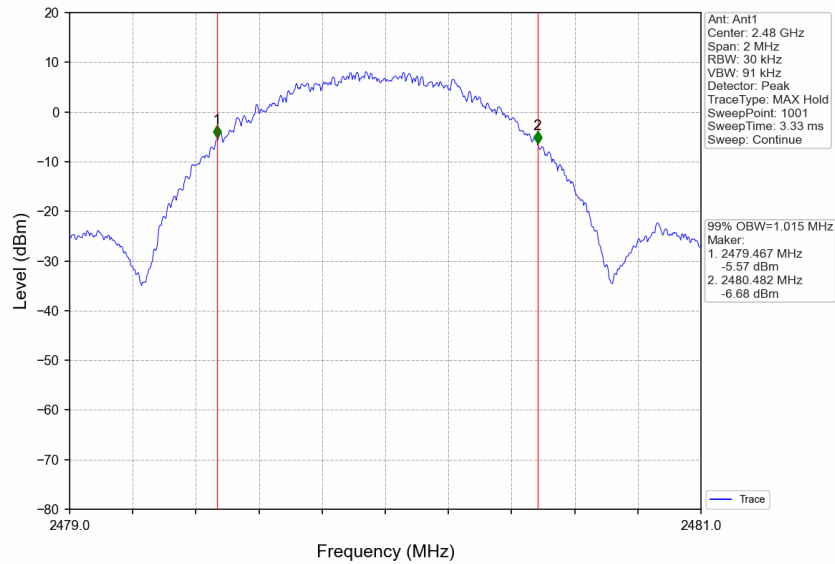
2.1.2 Test Graph



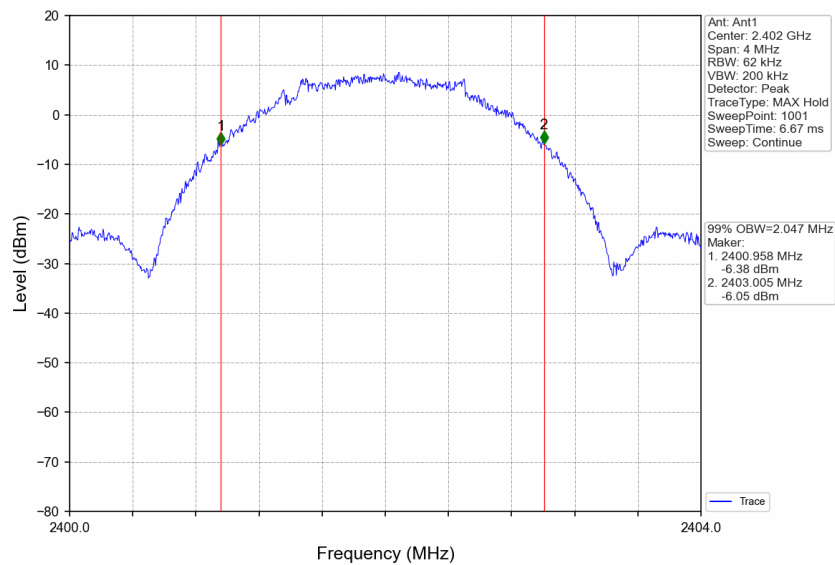
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1M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



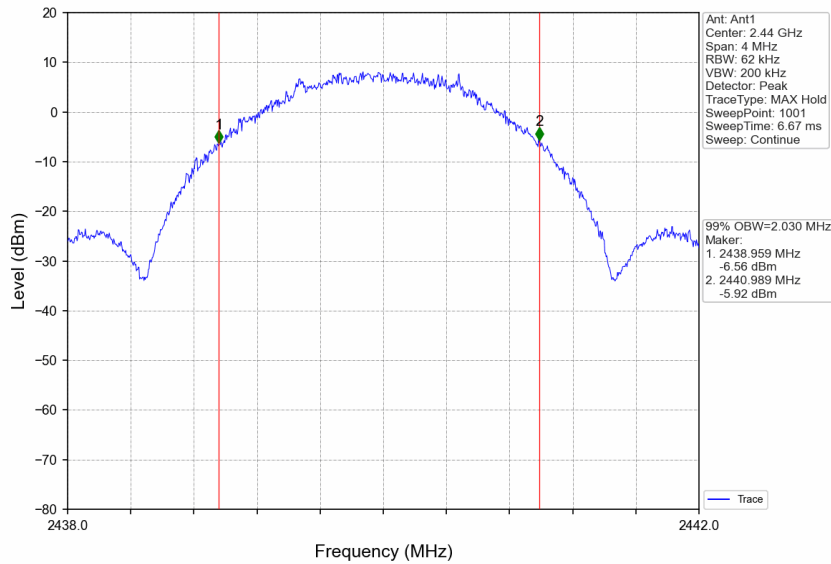
2M\_LCH\_2402MHz\_DataRate=\_ Ant1\_NTNV



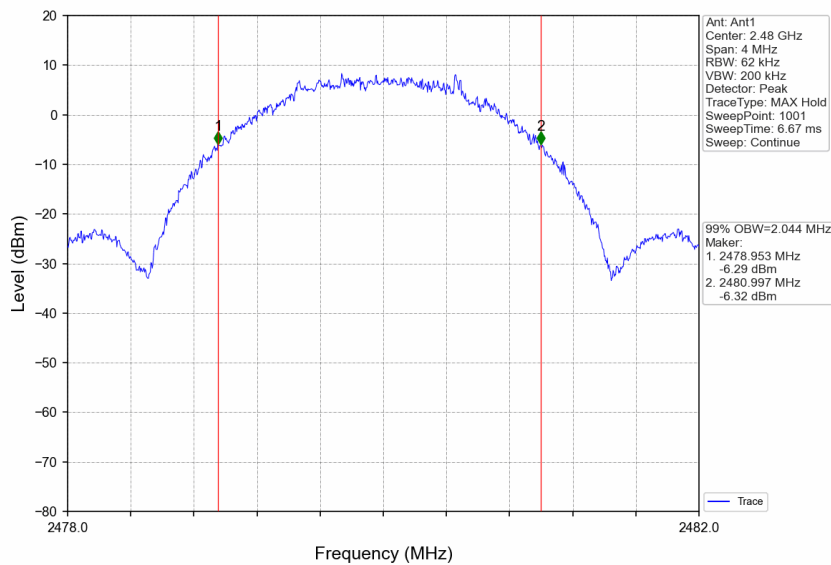
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2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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2.2 6dB BW

2.2.1 Test Result

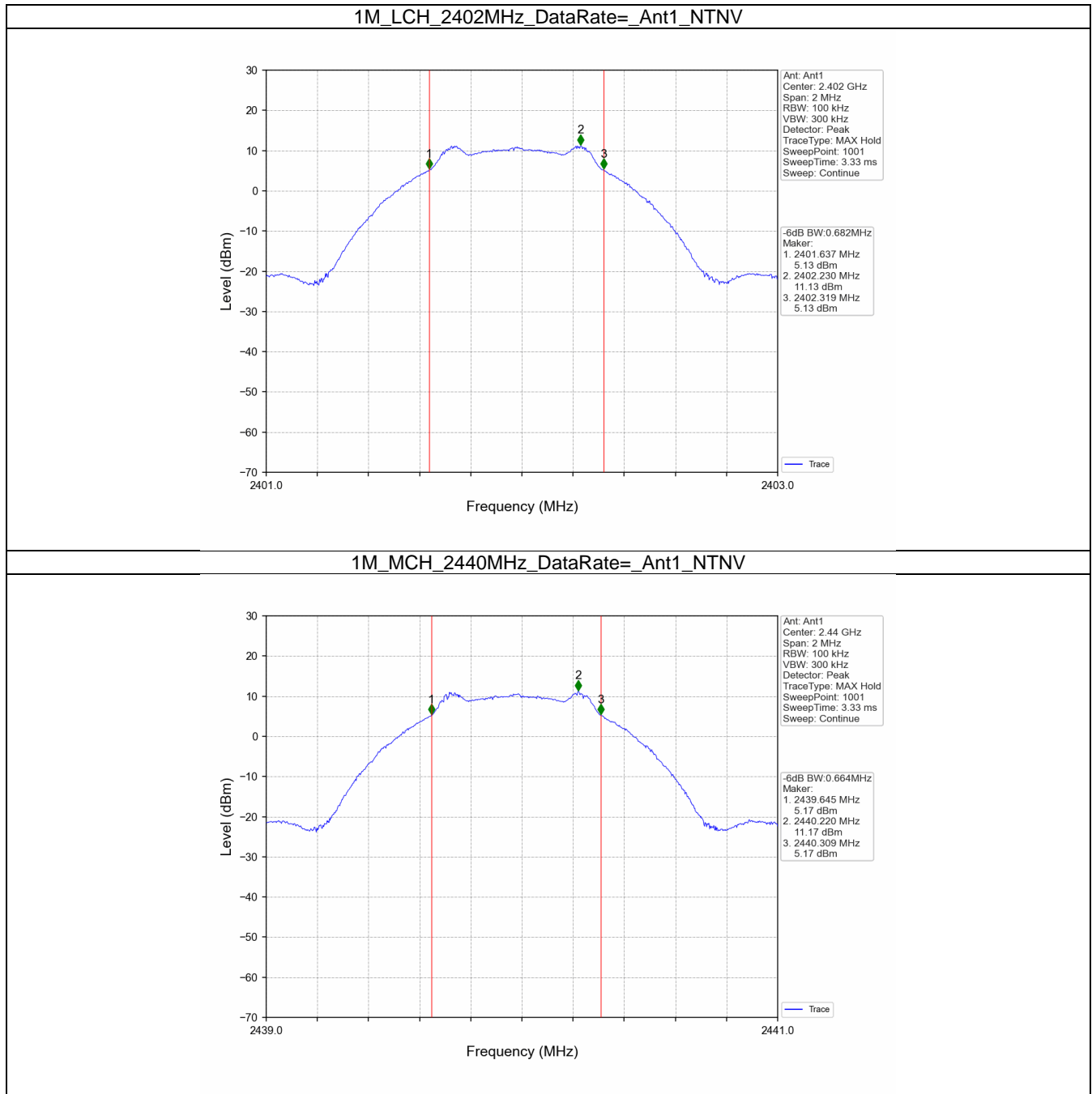
Mode	TX Type	Frequency (MHz)	Ant	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
1M	SISO	2402	1	0.682	>=0.5	Pass
		2440	1	0.664	>=0.5	Pass
		2480	1	0.660	>=0.5	Pass
2M	SISO	2402	1	1.362	>=0.5	Pass
		2440	1	1.313	>=0.5	Pass
		2480	1	1.408	>=0.5	Pass



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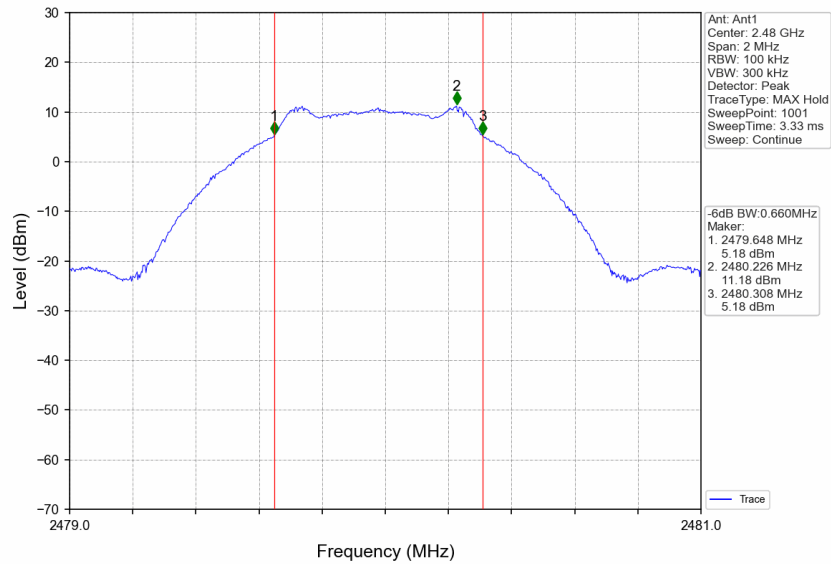
2.2.2 Test Graph



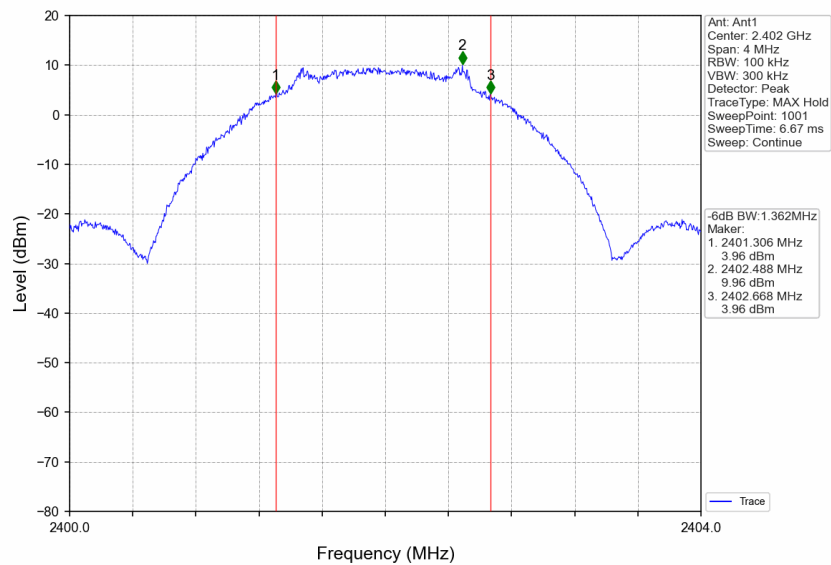
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1M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



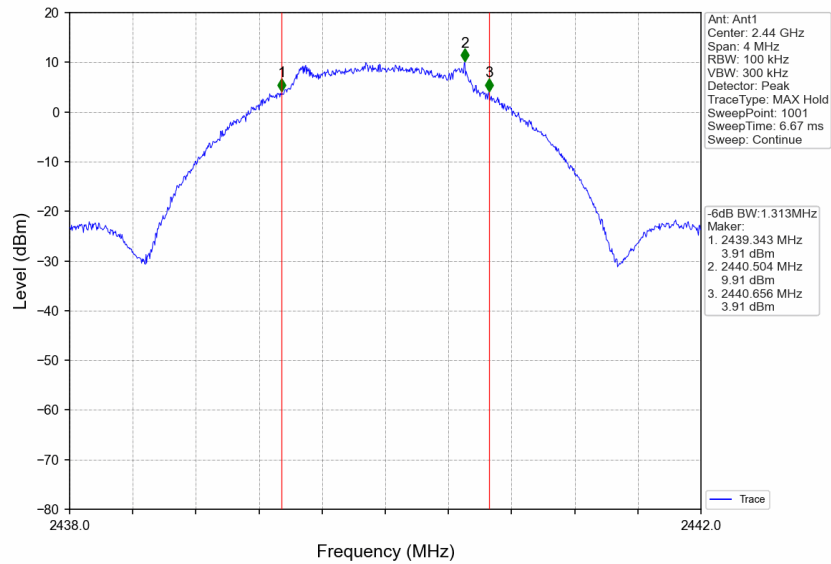
2M\_LCH\_2402MHz\_DataRate=\_Ant1\_NTNV



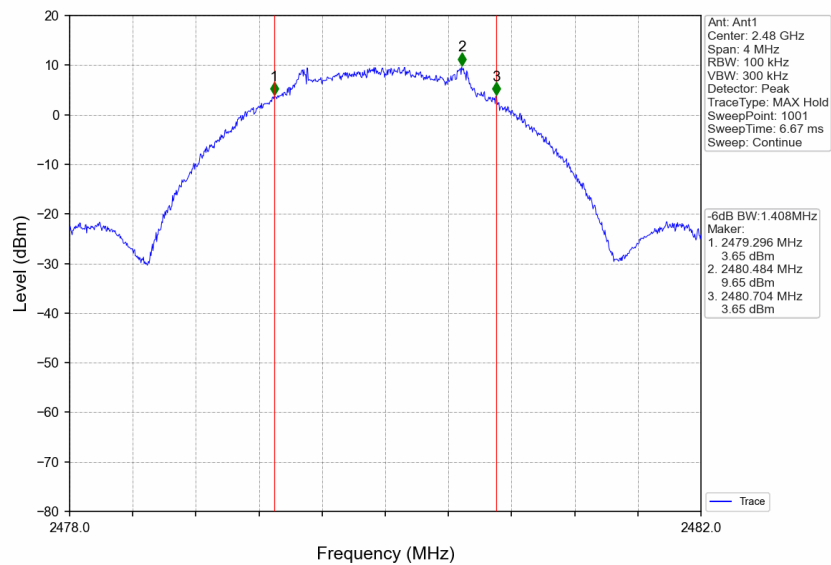
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2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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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	
1M	SISO	2402	11.50	<=30	Pass
		2440	11.24	<=30	Pass
		2480	11.31	<=30	Pass
2M	SISO	2402	11.43	<=30	Pass
		2440	11.19	<=30	Pass
		2480	11.27	<=30	Pass

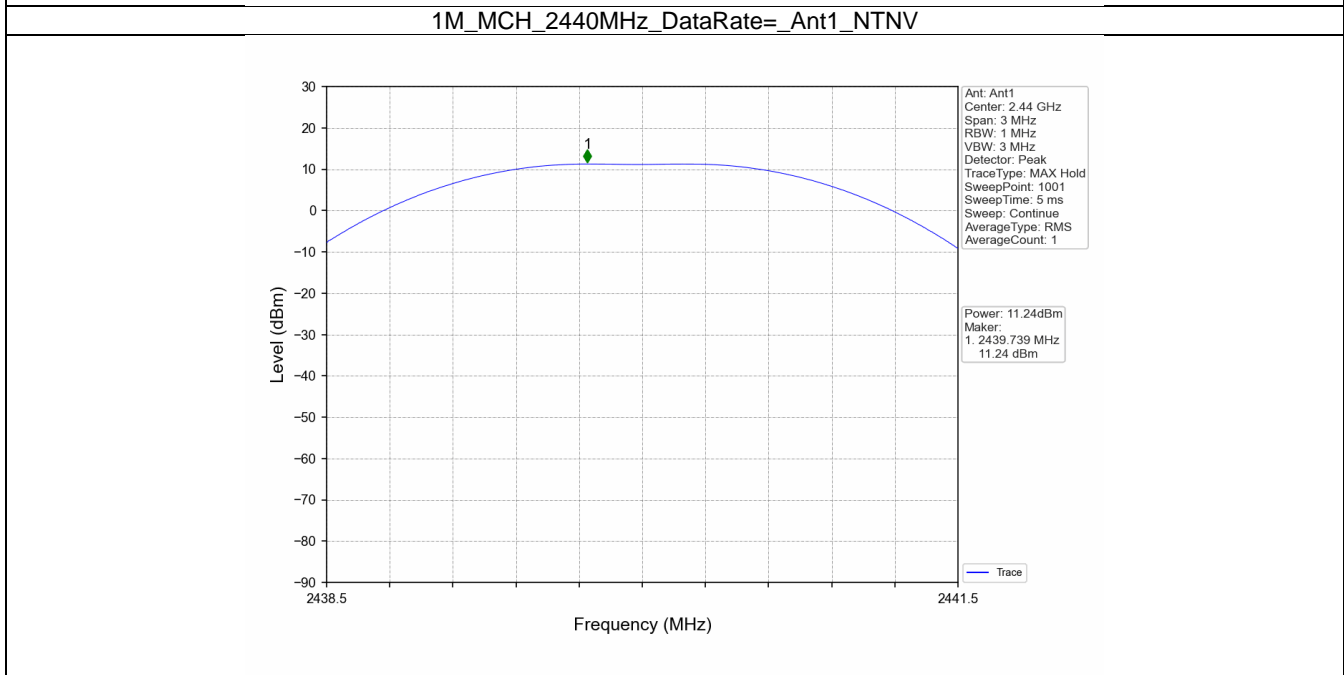
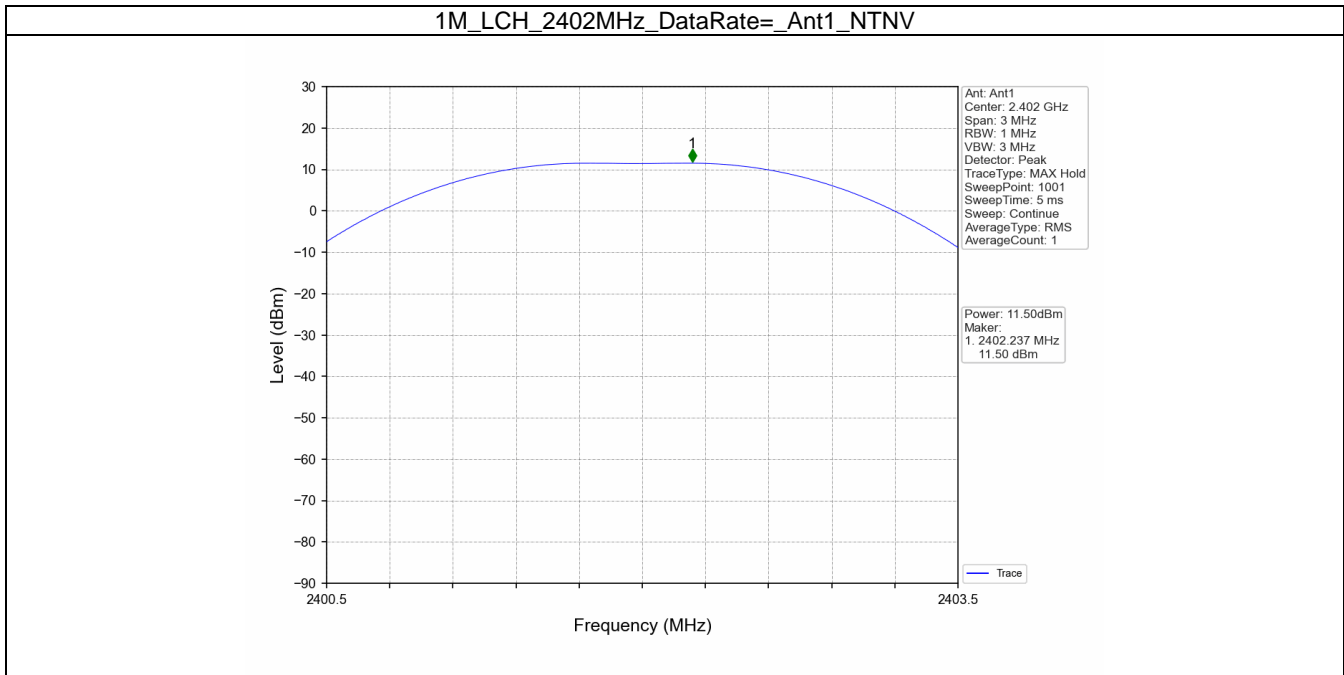
Note1: Antenna Gain: Ant1: 1.30dBi;



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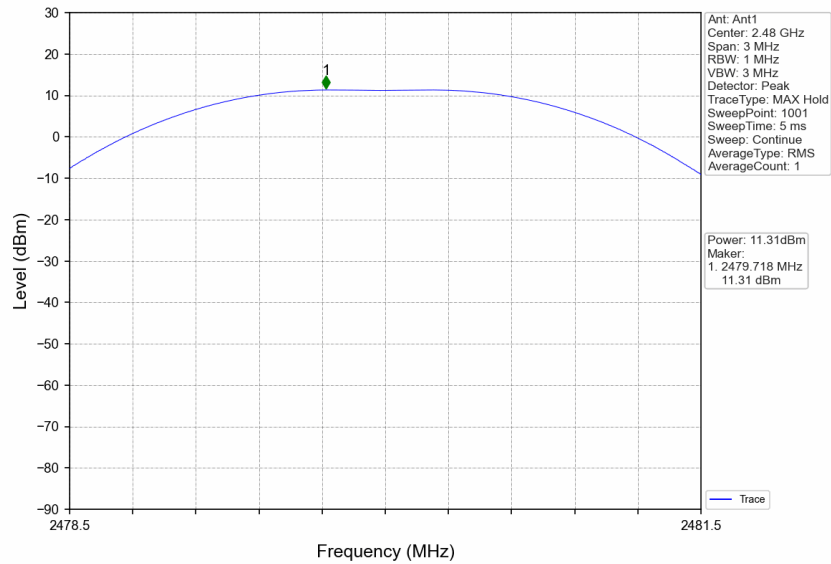
3.1.2 Test Graph



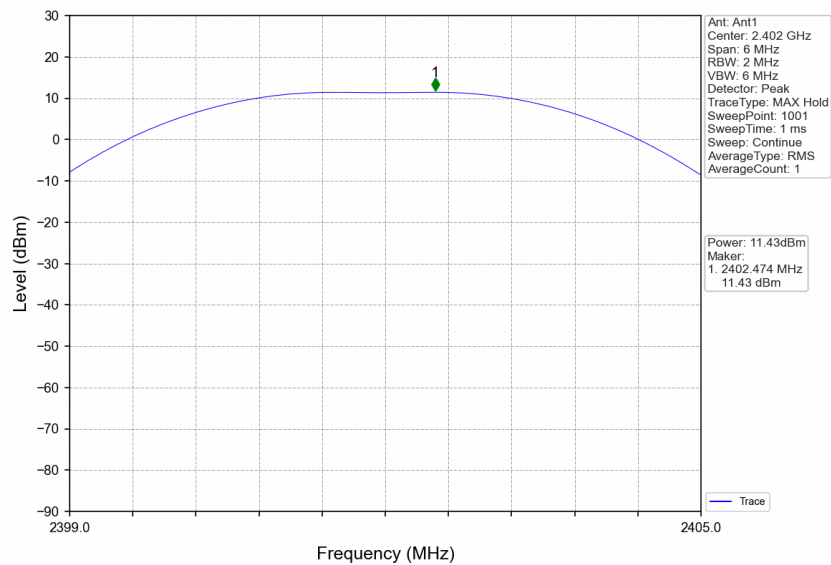
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1M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



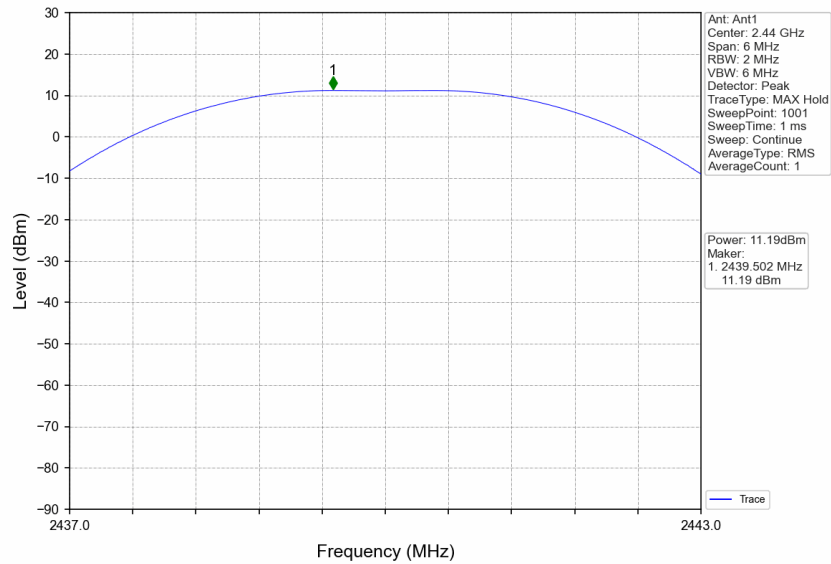
2M\_LCH\_2402MHz\_DataRate=\_Ant1\_NTNV



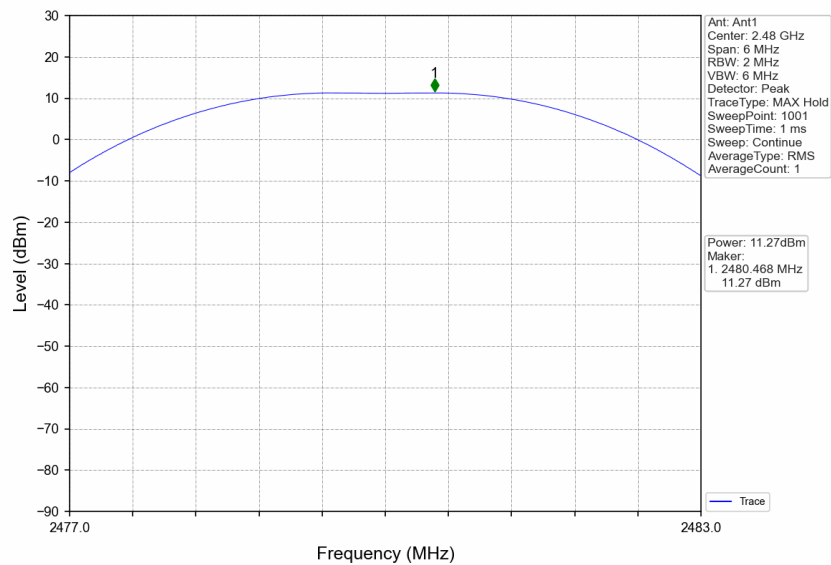
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2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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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	
1M	SISO	2402	0.33	<=8	Pass
		2440	1.51	<=8	Pass
		2480	-0.01	<=8	Pass
2M	SISO	2402	-2.51	<=8	Pass
		2440	-2.31	<=8	Pass
		2480	-2.02	<=8	Pass

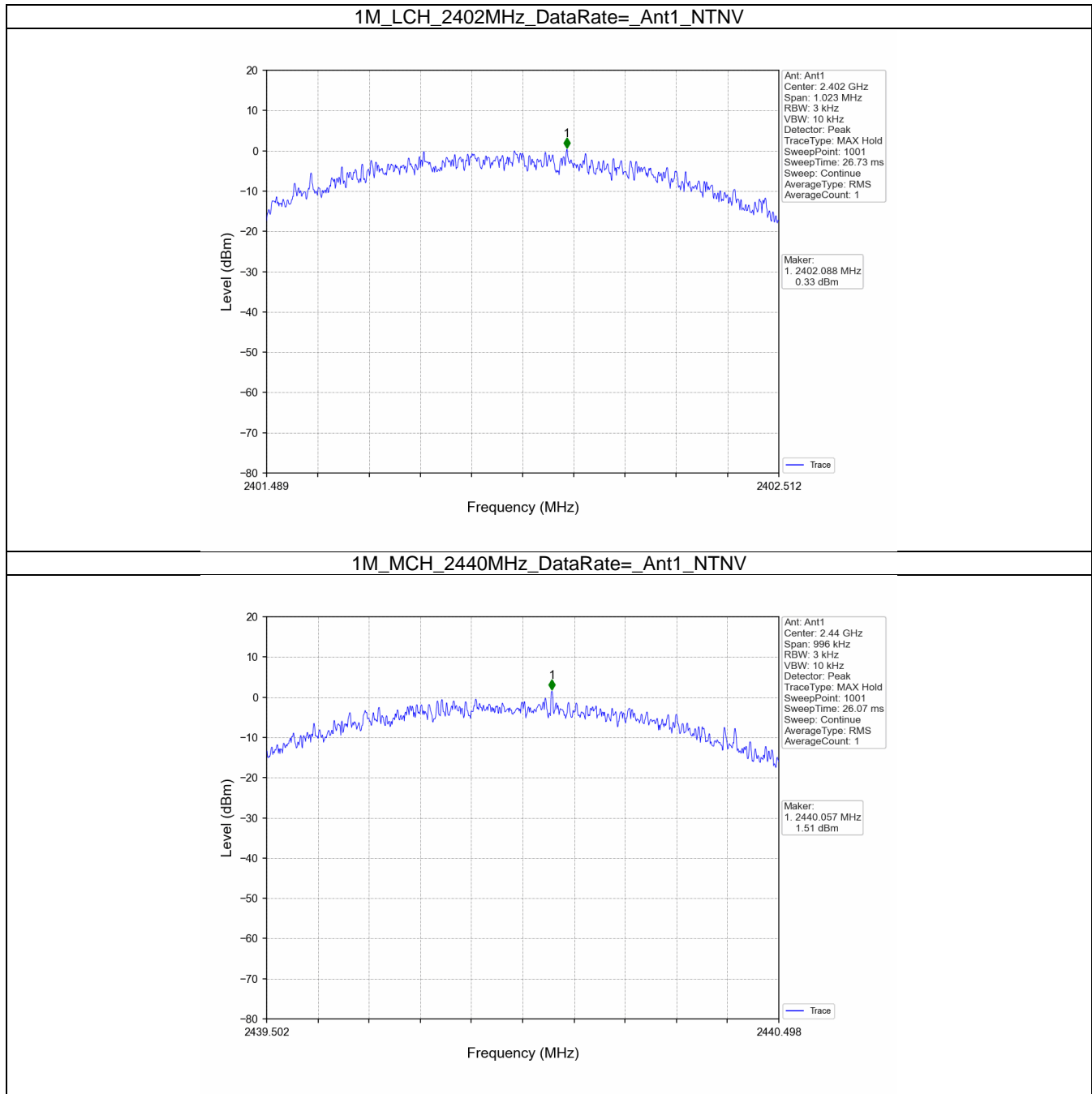
Note1: Antenna Gain: Ant1: 1.30dBi;



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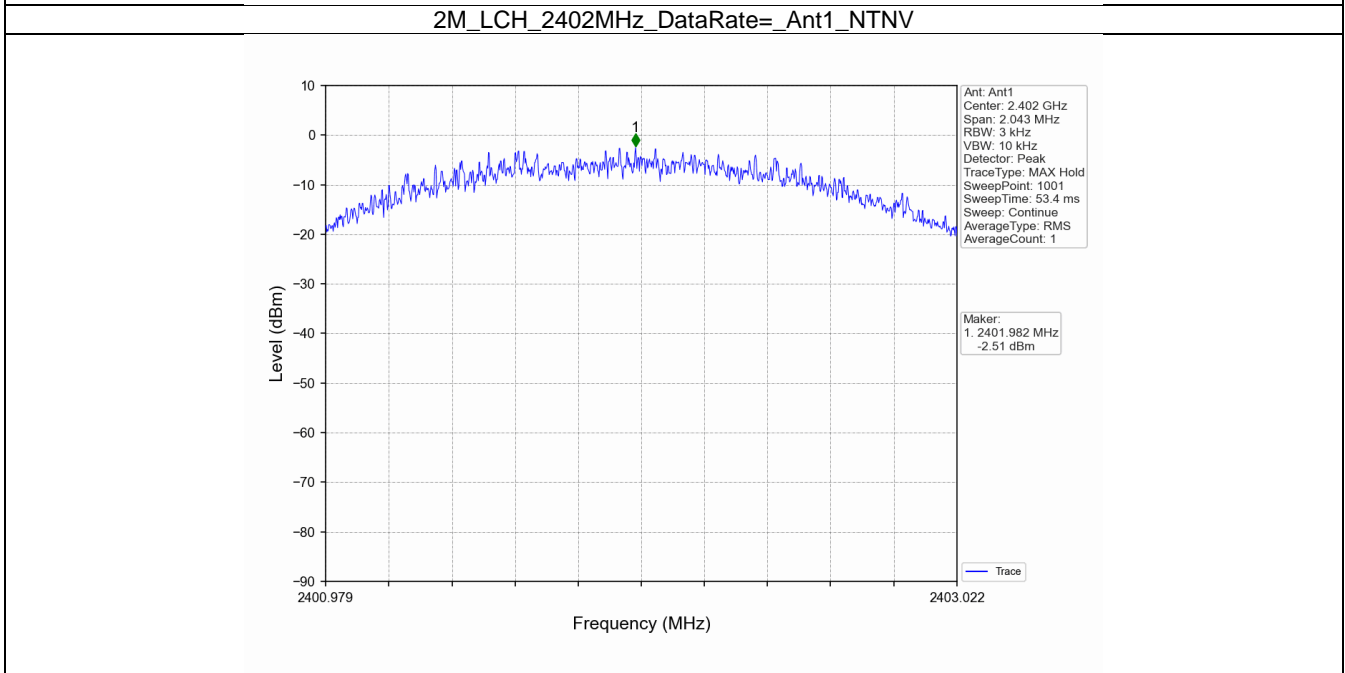
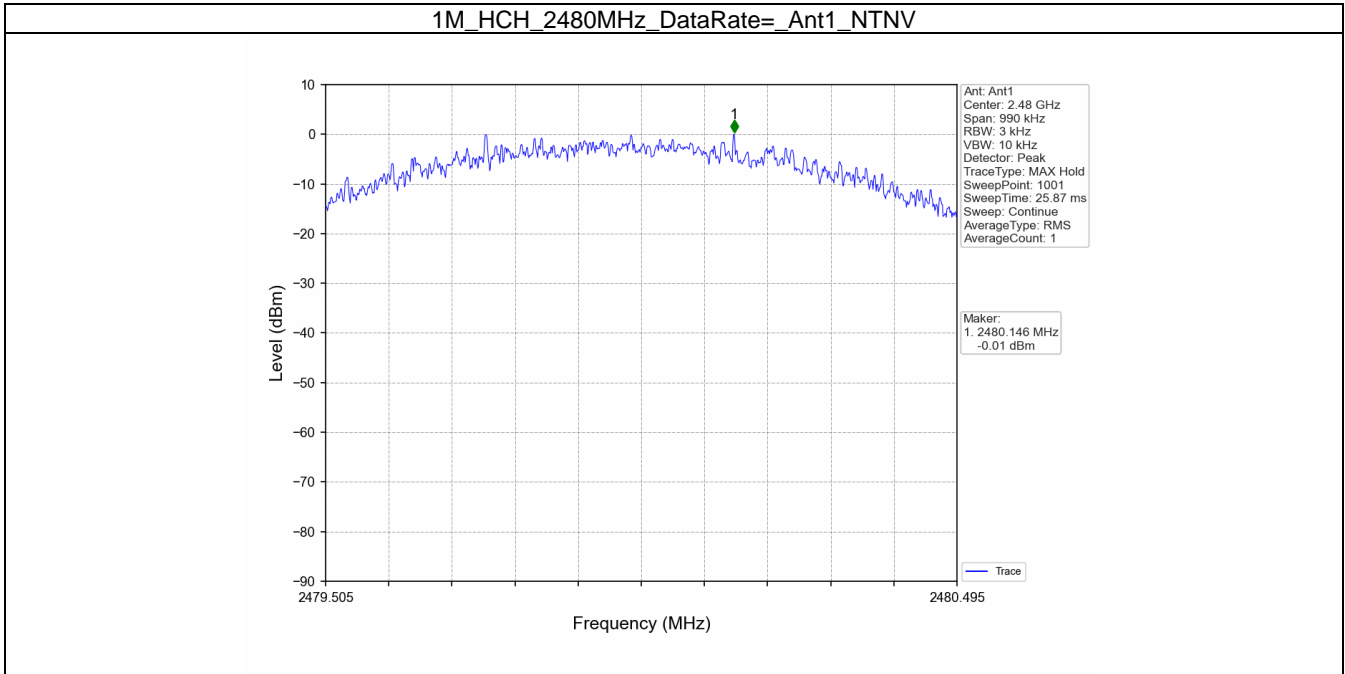
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4.1.2 Test Graph



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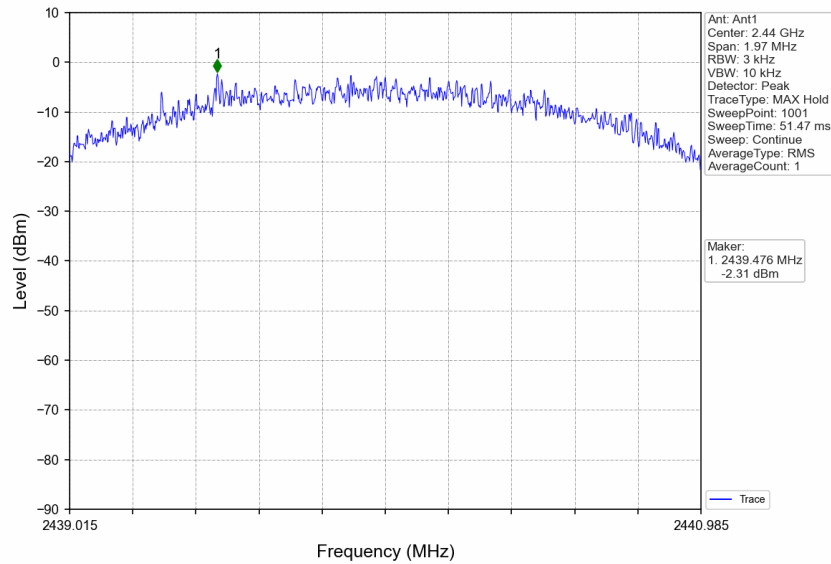
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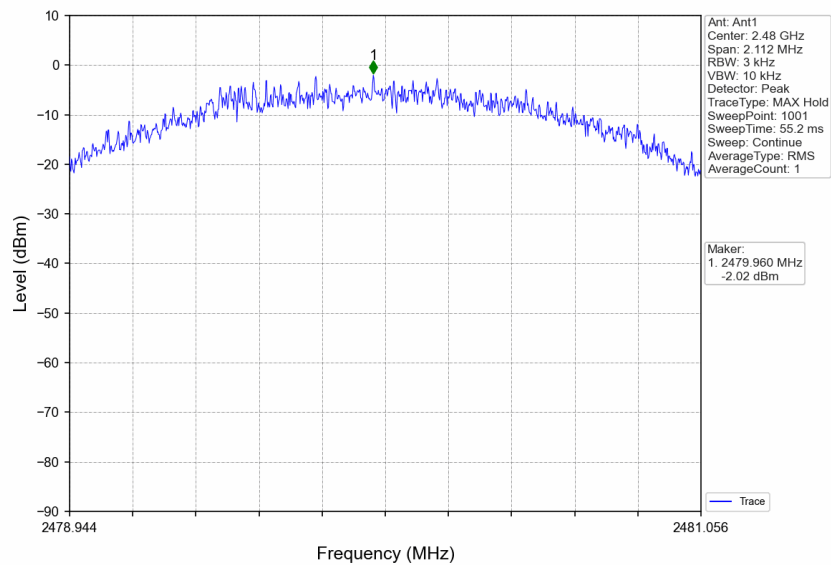
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2M\_MCH\_2440MHz\_DataRate=\_ Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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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)
1M	SISO	2402	1	11.41
		2440	1	11.01
		2480	1	10.98
2M	SISO	2402	1	10.04
		2440	1	9.88
		2480	1	9.68

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.



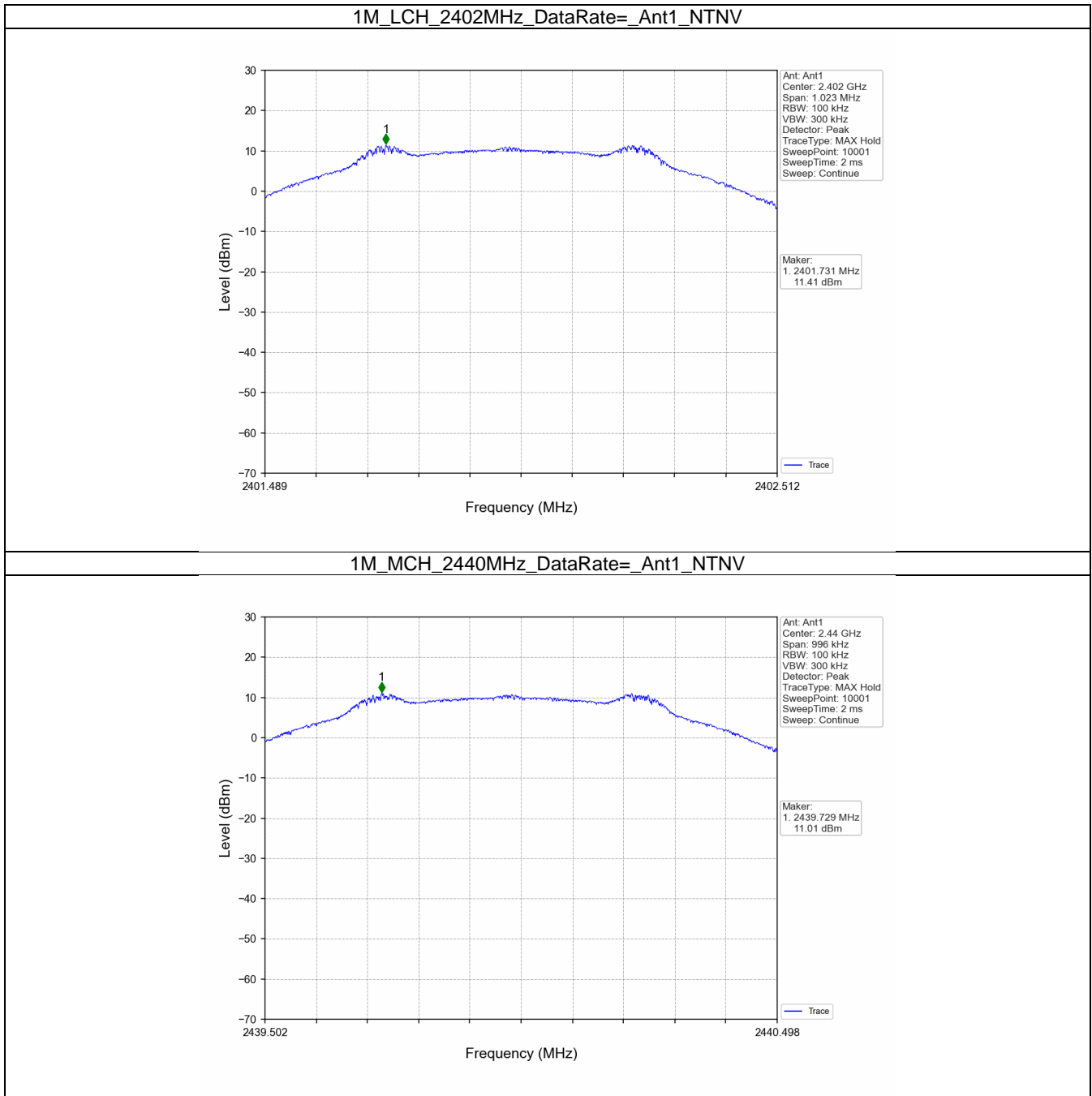
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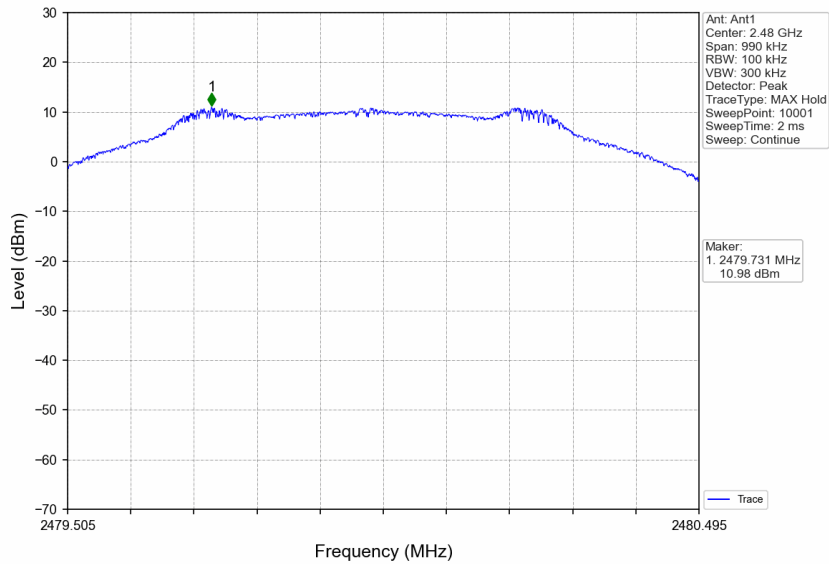
5.1.2 Test Graph



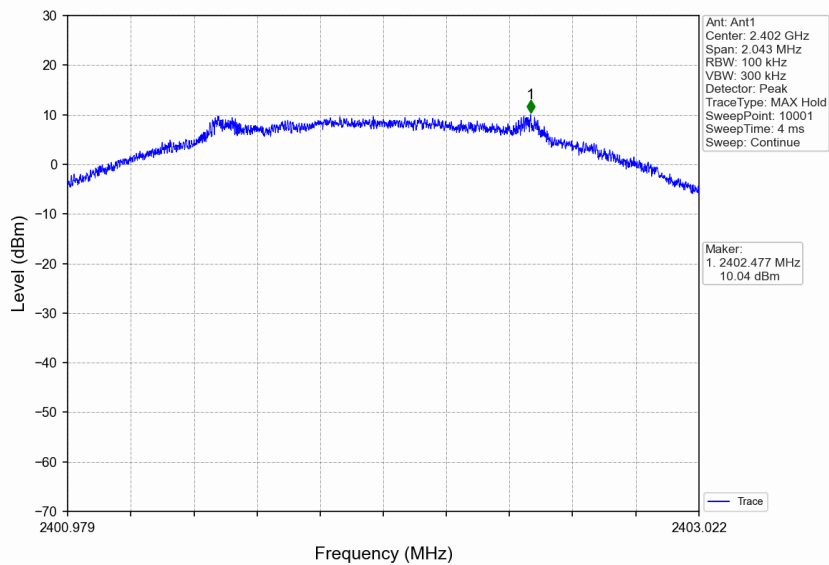
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1M\_HCH\_2480MHz\_DataRate=\_Ant1\_NTNV



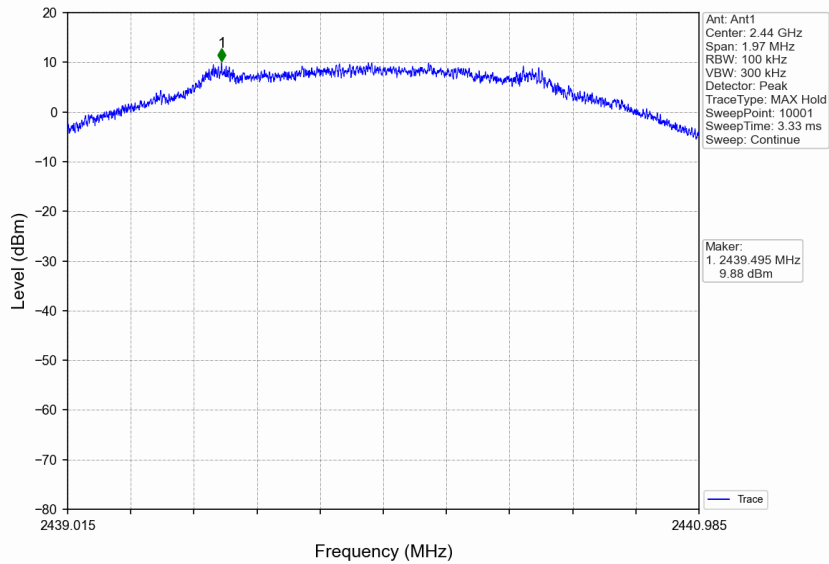
2M\_LCH\_2402MHz\_DataRate=\_Ant1\_NTNV



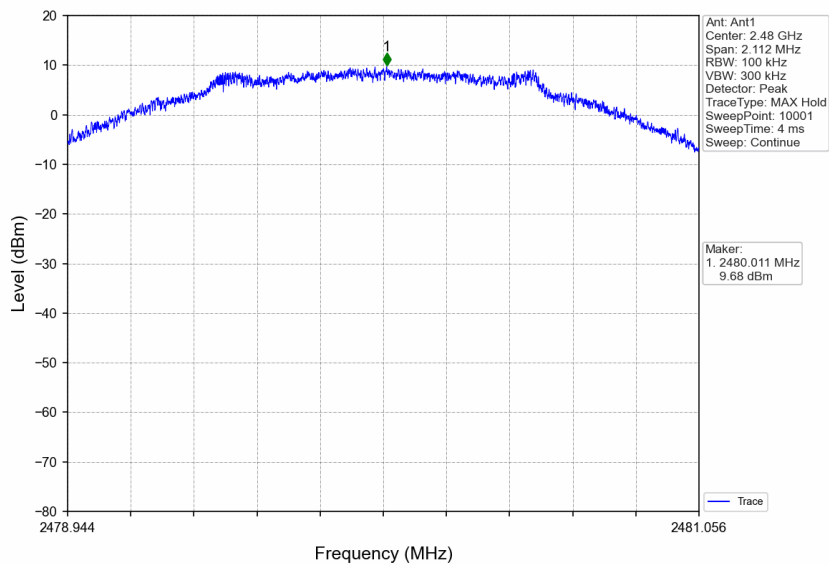
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2M\_MCH\_2440MHz\_DataRate=\_ Ant1\_NTNV



2M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



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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
1M	SISO	2402	1	11.41	-8.59	Pass
		2440	1	11.41	-8.59	Pass
		2480	1	11.41	-8.59	Pass
2M	SISO	2402	1	10.04	-9.96	Pass
		2440	1	10.04	-9.96	Pass
		2480	1	10.04	-9.96	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.

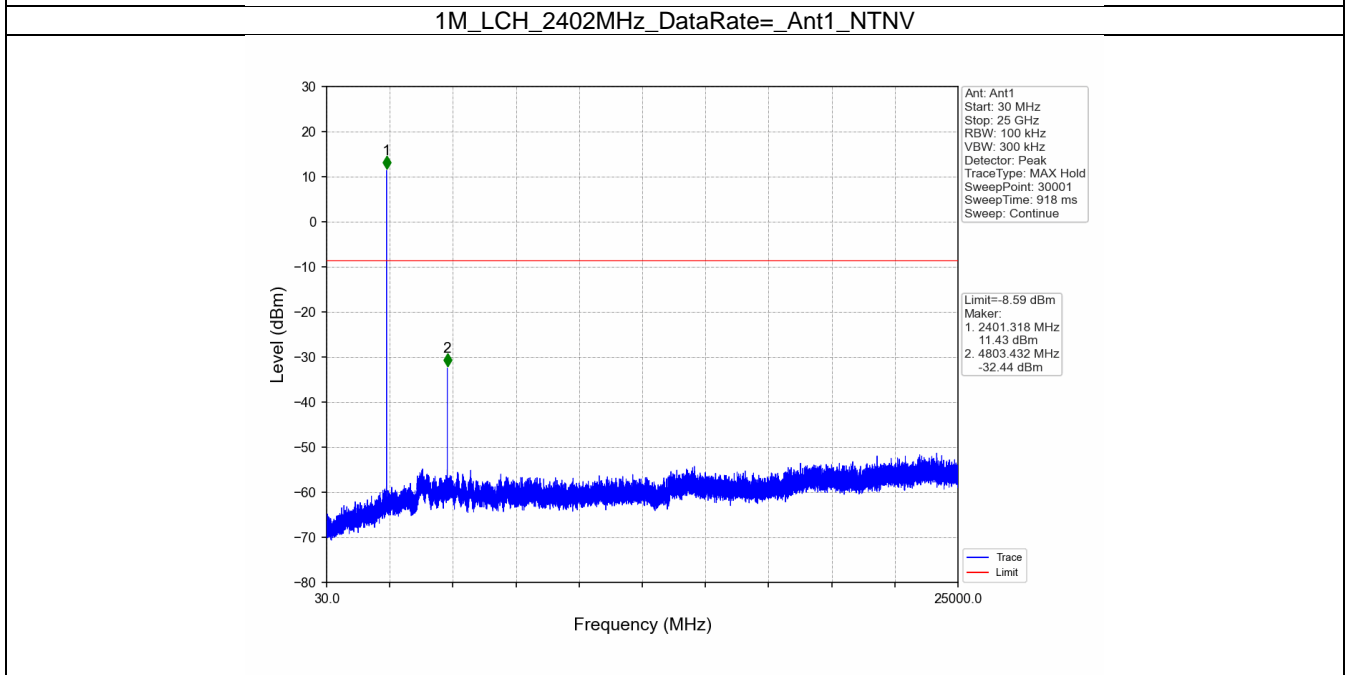
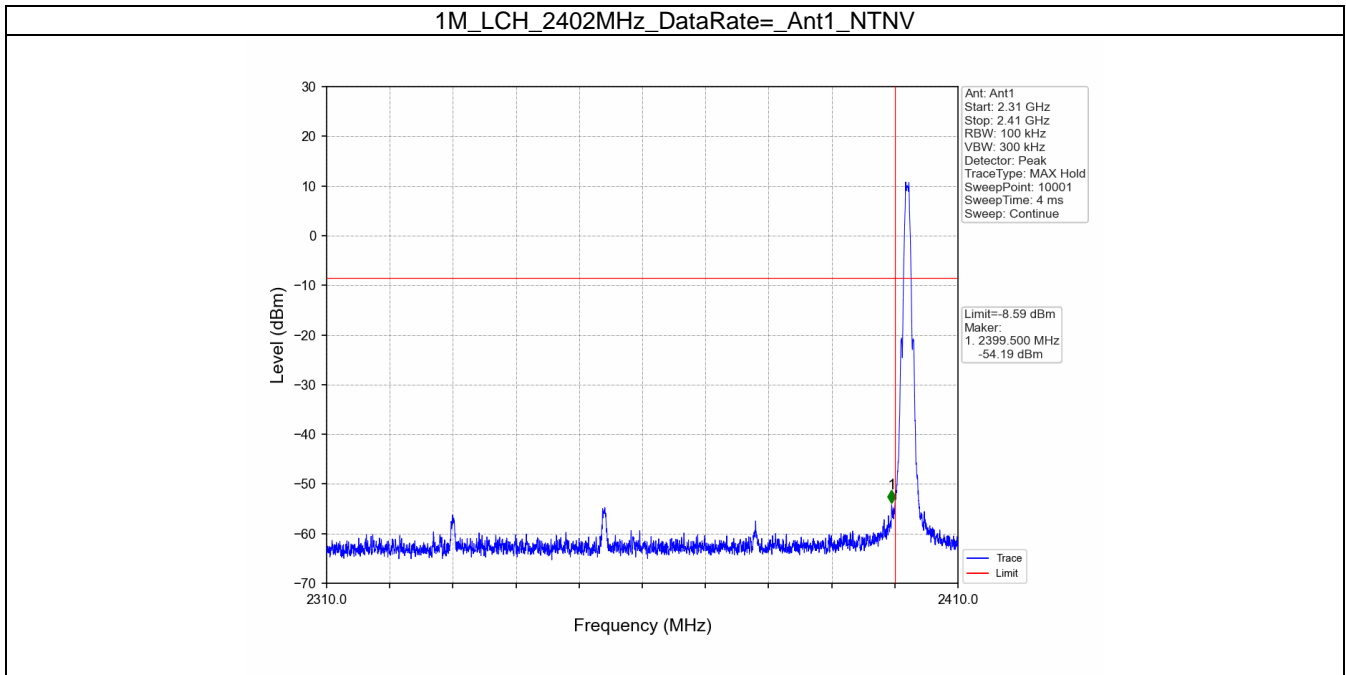
Note2: RBW = 1MHz was used during the pre-test. The final test will be performed at RBW=100kHz while the margin is less than 3dB.



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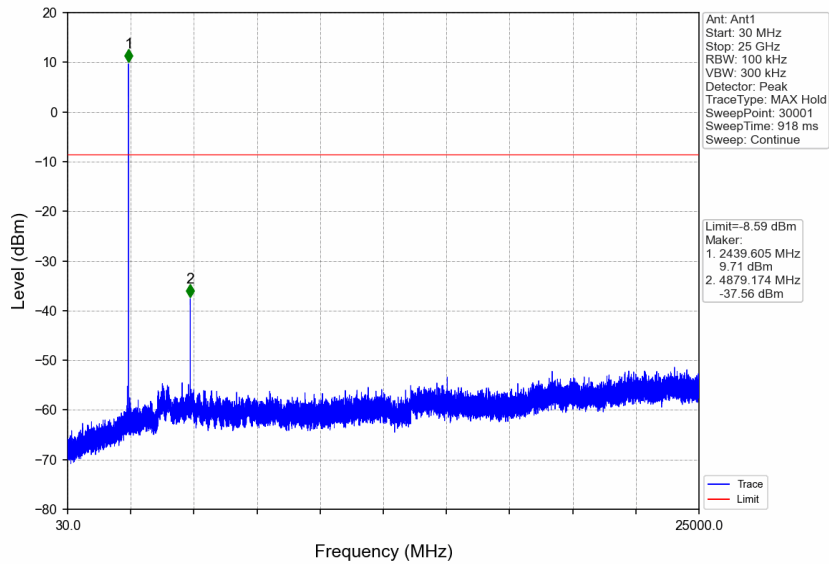
5.2.2 Test Graph



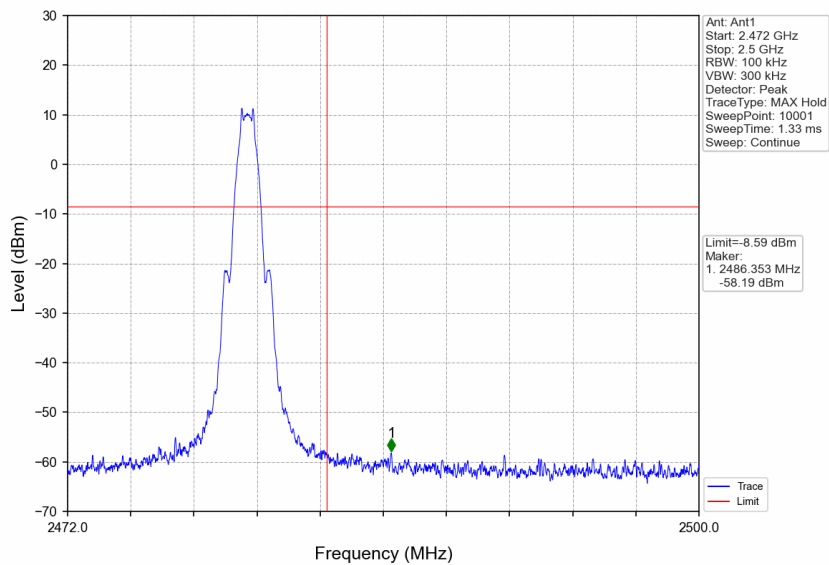
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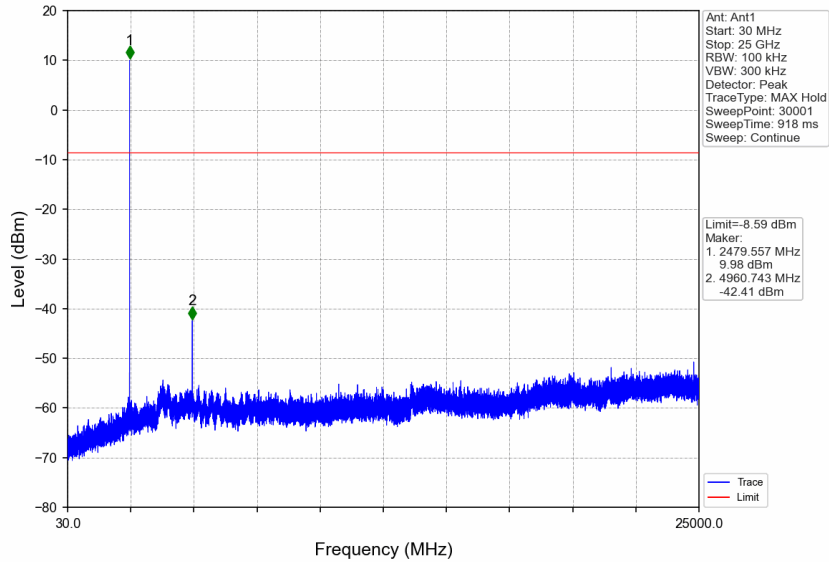
1M\_HCH\_2480MHz\_DataRate=\_ Ant1\_NTNV



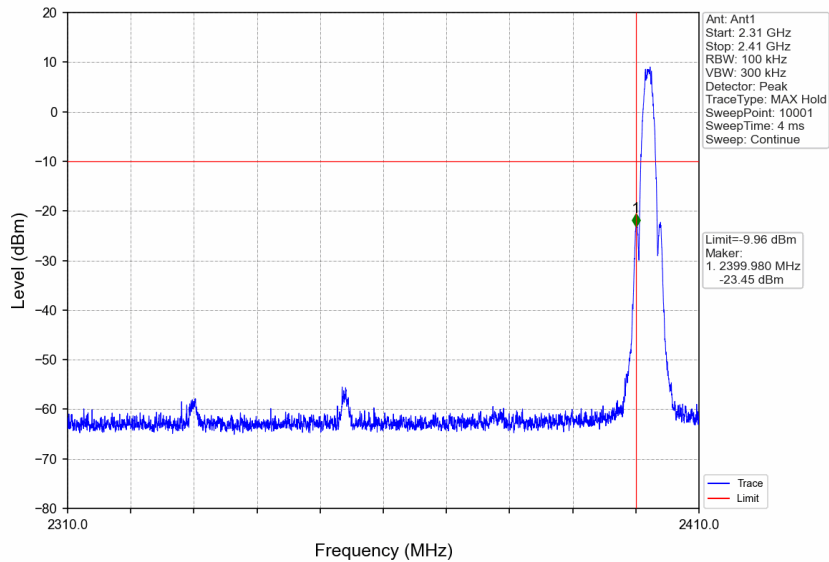
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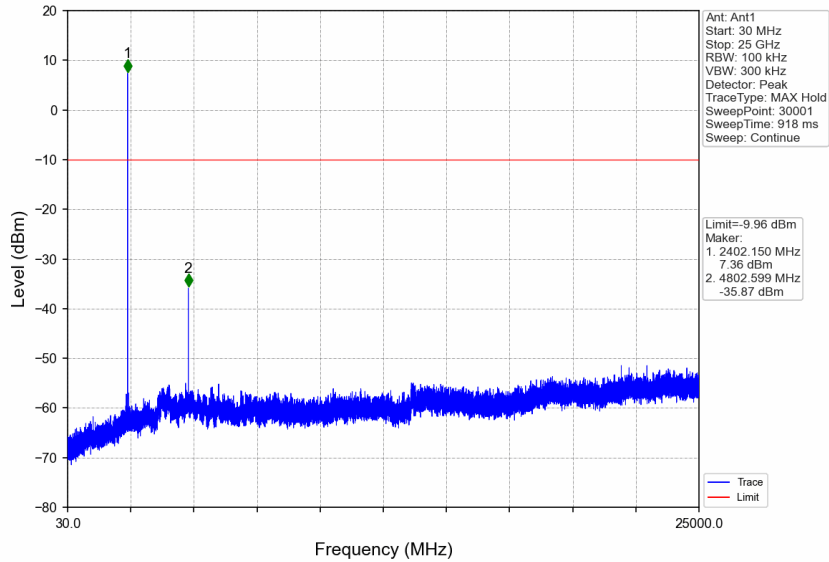
2M\_LCH\_2402MHz\_DataRate=\_ Ant1\_NTNV



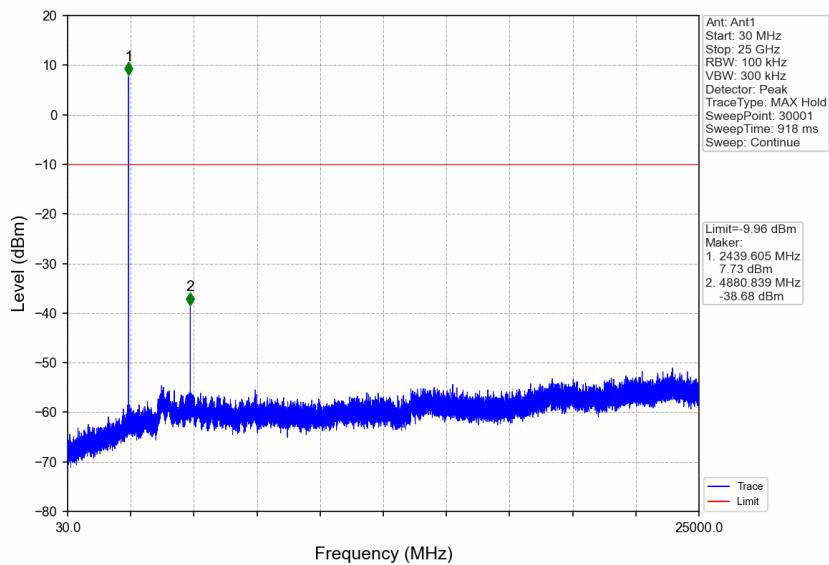
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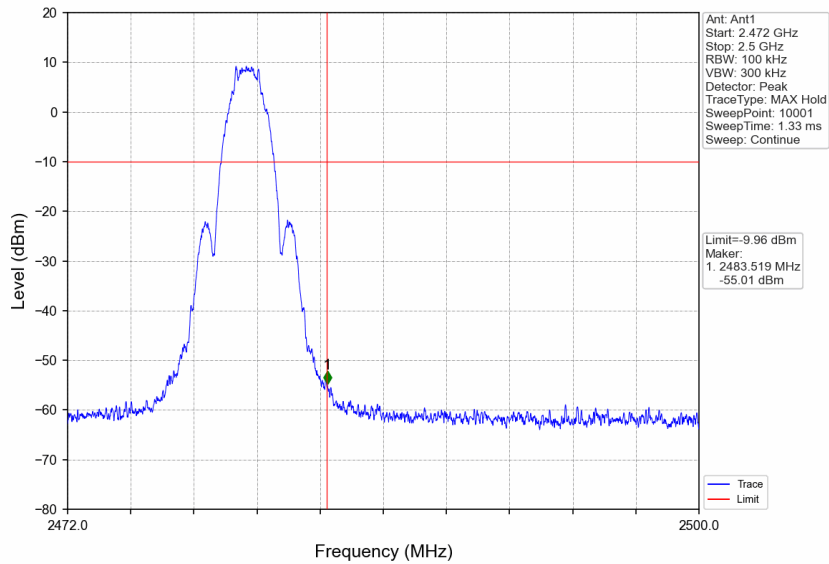
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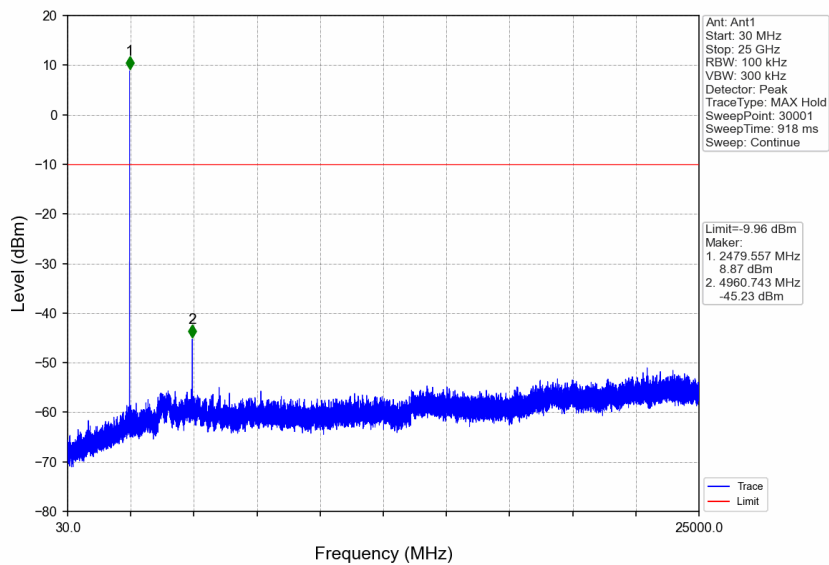
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