

## 11 Appendix

### Appendix for 15.247

#### 1. Duty Cycle

##### 1.1 Test Result

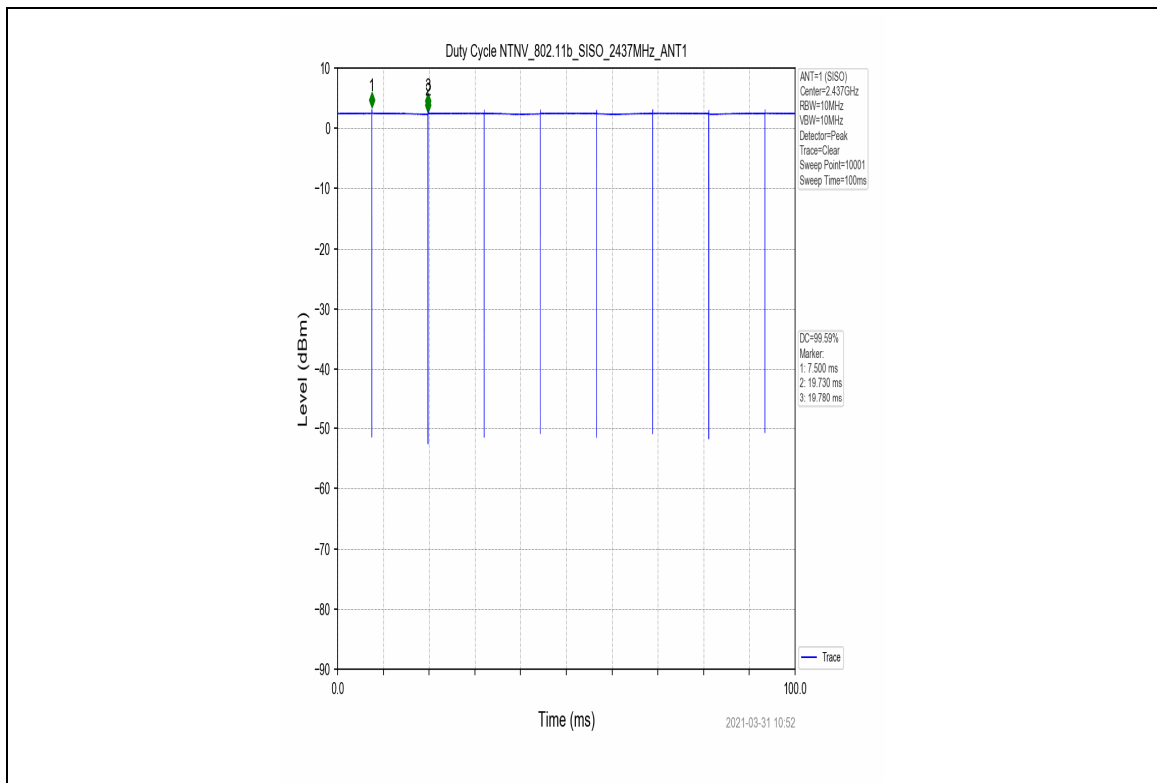
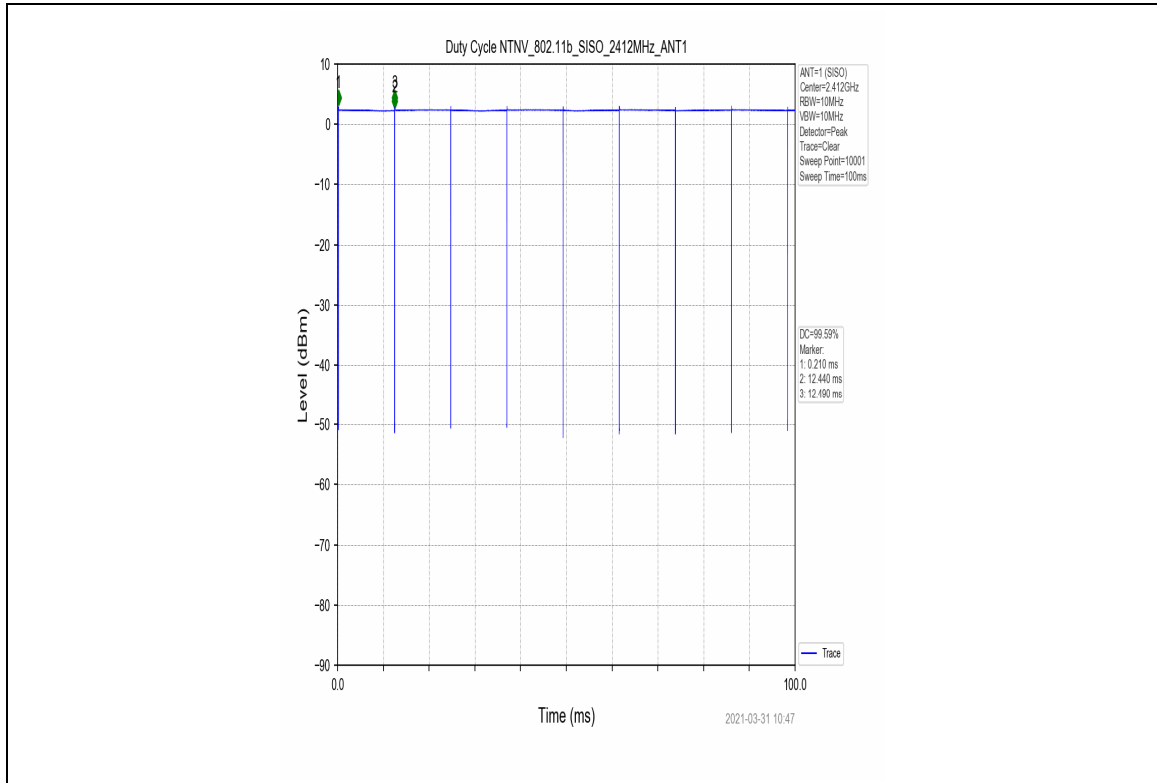
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.230	12.280	99.59	0.02
	2437	SISO	1	12.230	12.280	99.59	0.02
	2462	SISO	1	12.230	12.280	99.59	0.02
802.11g	2412	SISO	1	2.022	2.073	97.54	0.11
	2437	SISO	1	2.022	2.075	97.45	0.11
	2462	SISO	1	2.024	2.075	97.54	0.11
802.11n(HT20)	2412	SISO	1	1.888	1.938	97.42	0.11
	2437	SISO	1	1.886	1.938	97.32	0.12
	2462	SISO	1	1.886	1.938	97.32	0.12
802.11n(HT40)	2422	SISO	1	0.927	0.966	95.96	0.18
	2437	SISO	1	0.927	0.966	95.96	0.18
	2452	SISO	1	0.927	0.966	95.96	0.18



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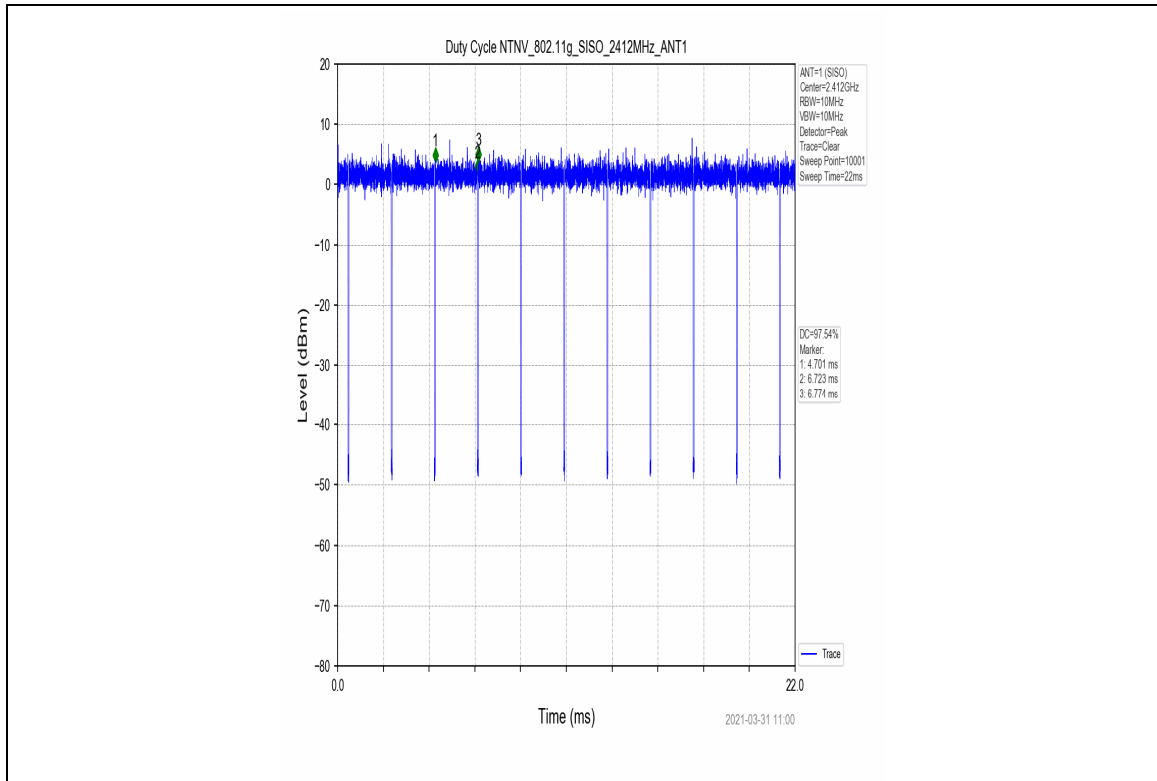
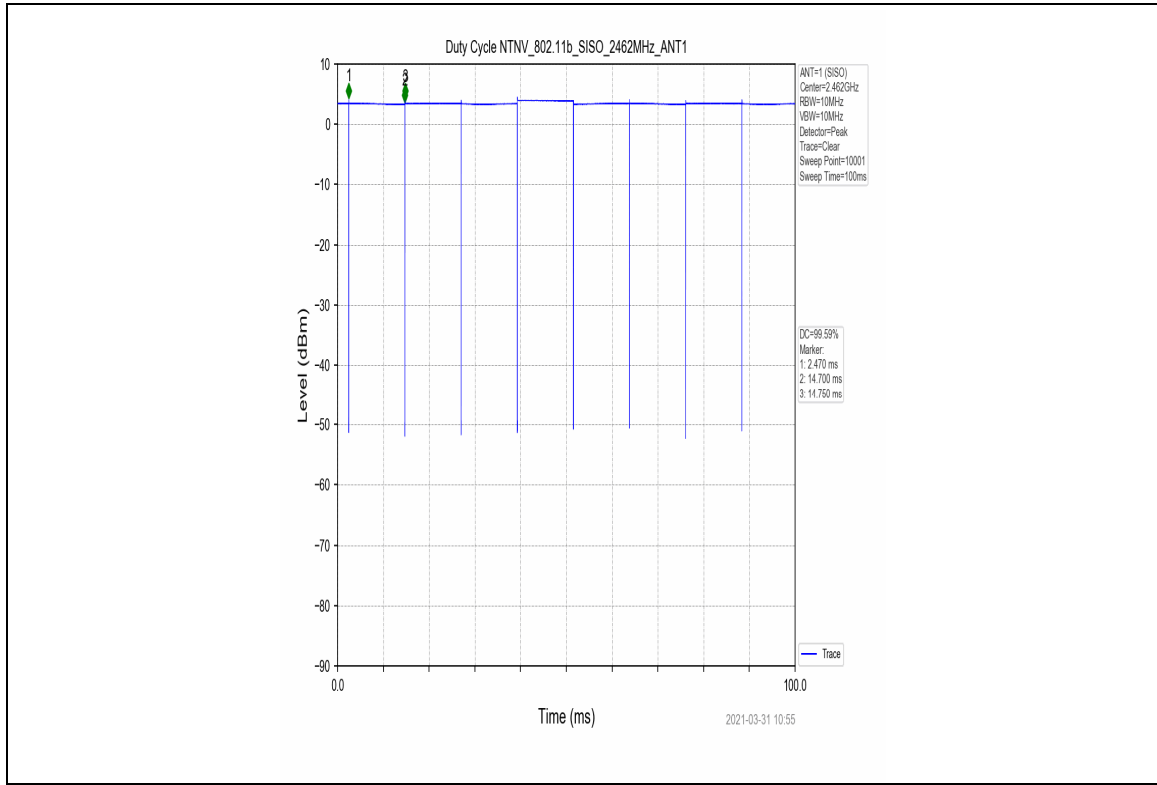
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### 1.2 Test Graph



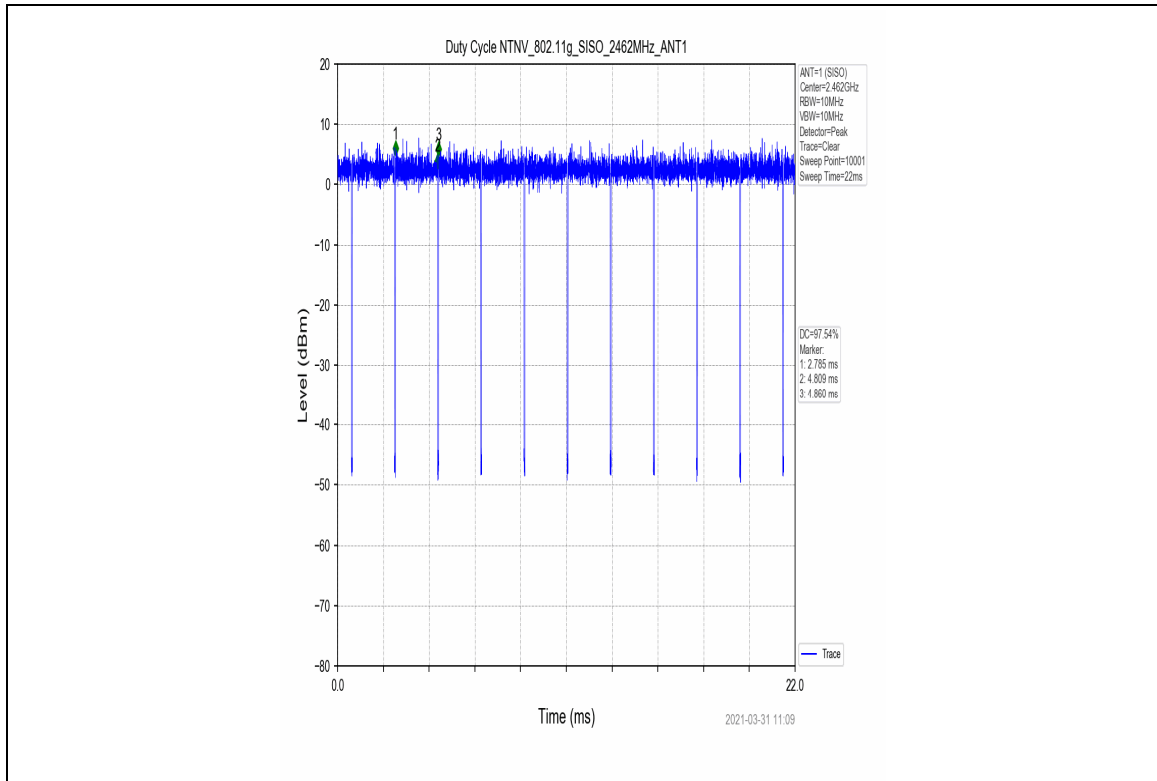
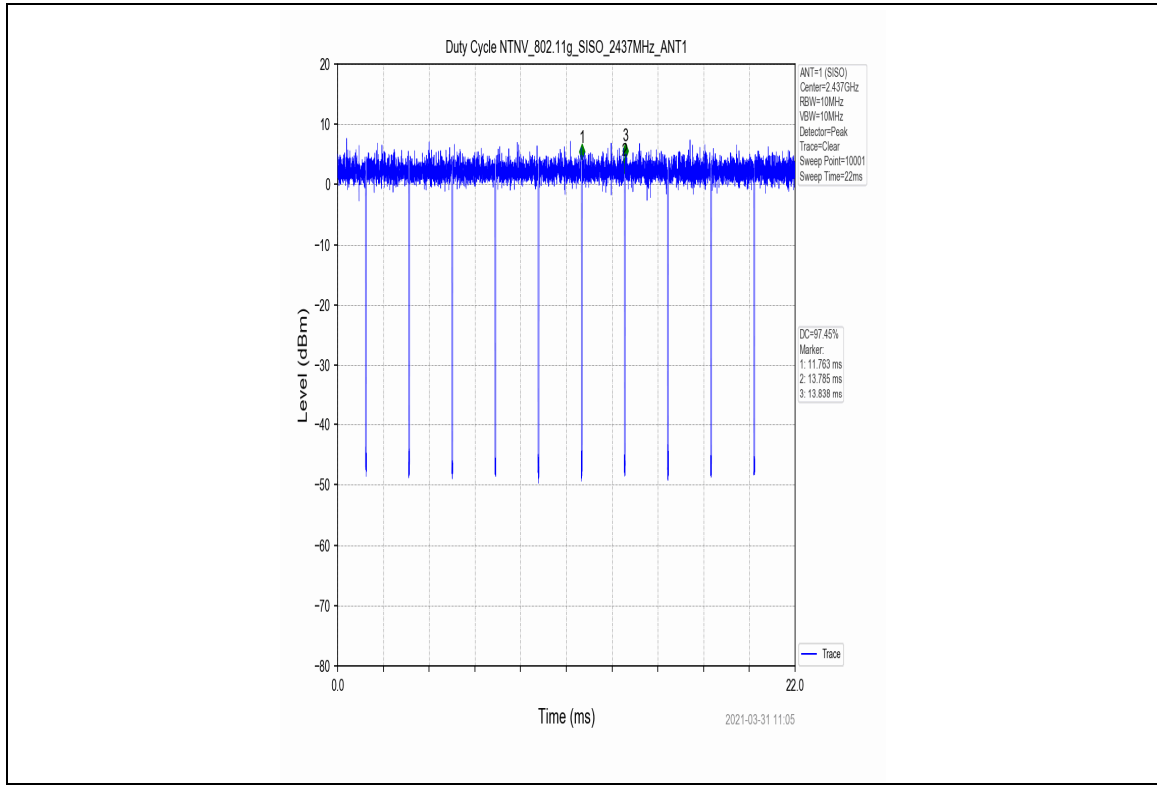
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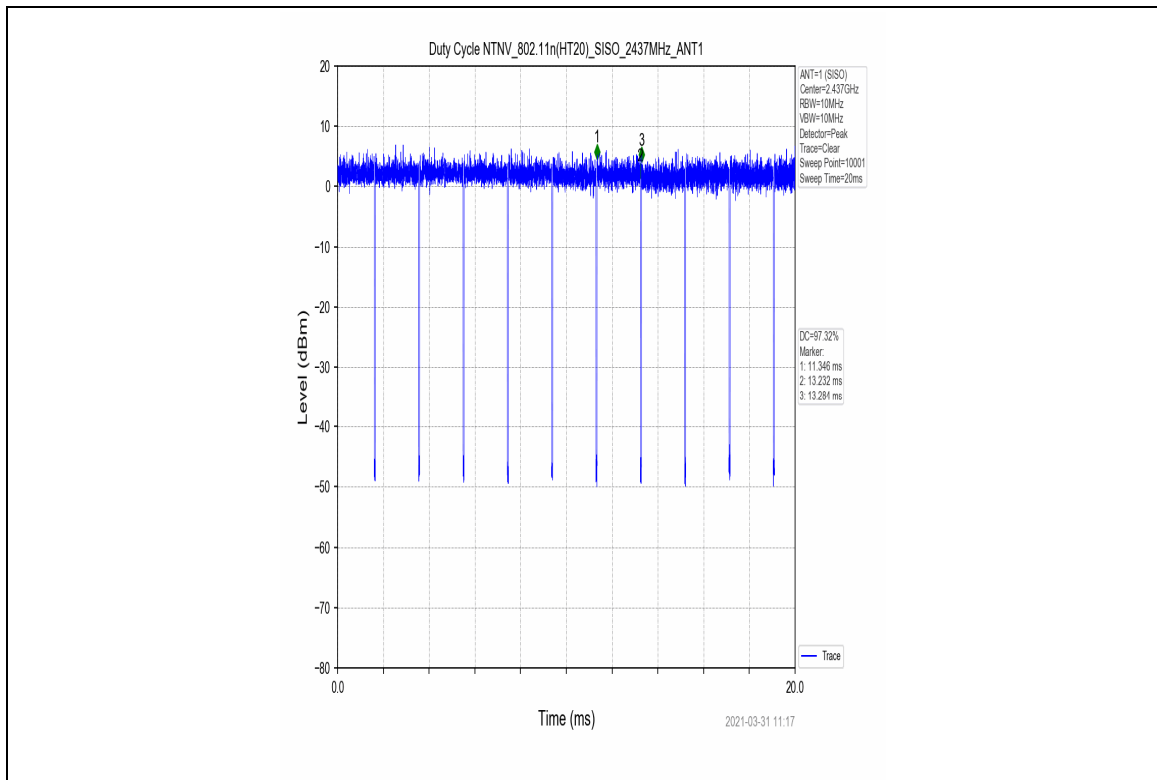
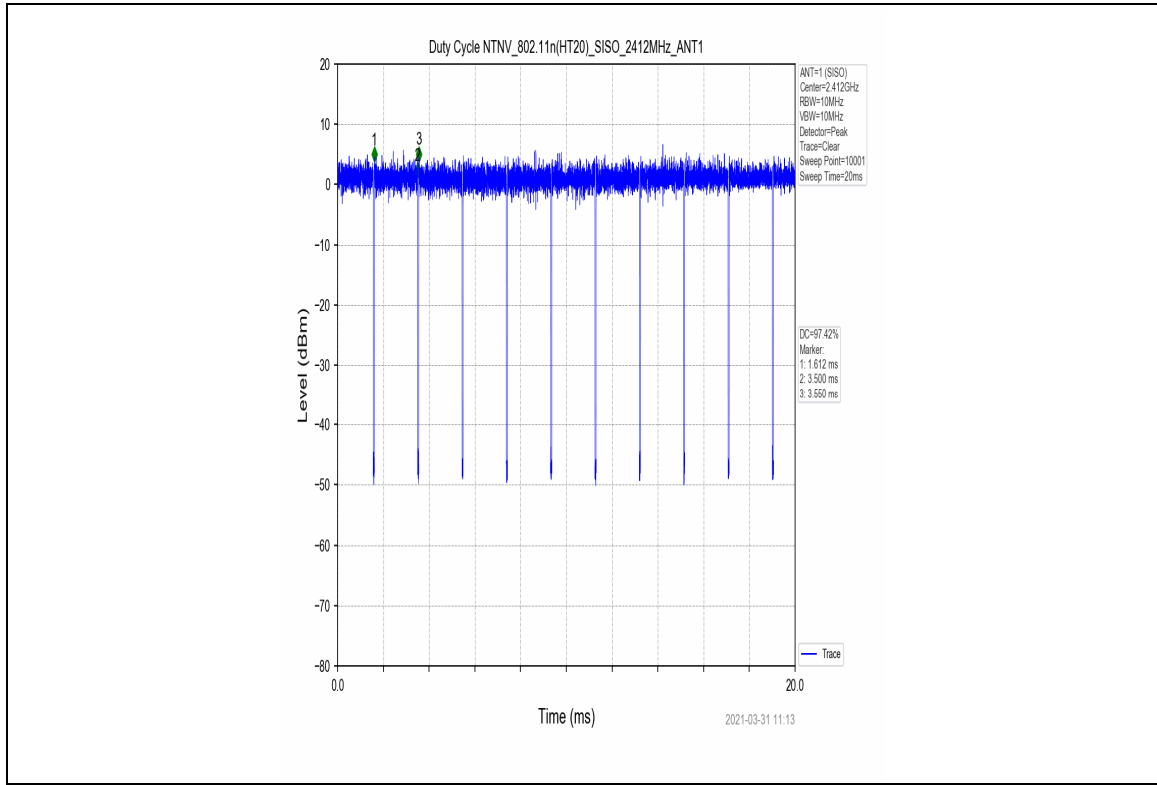
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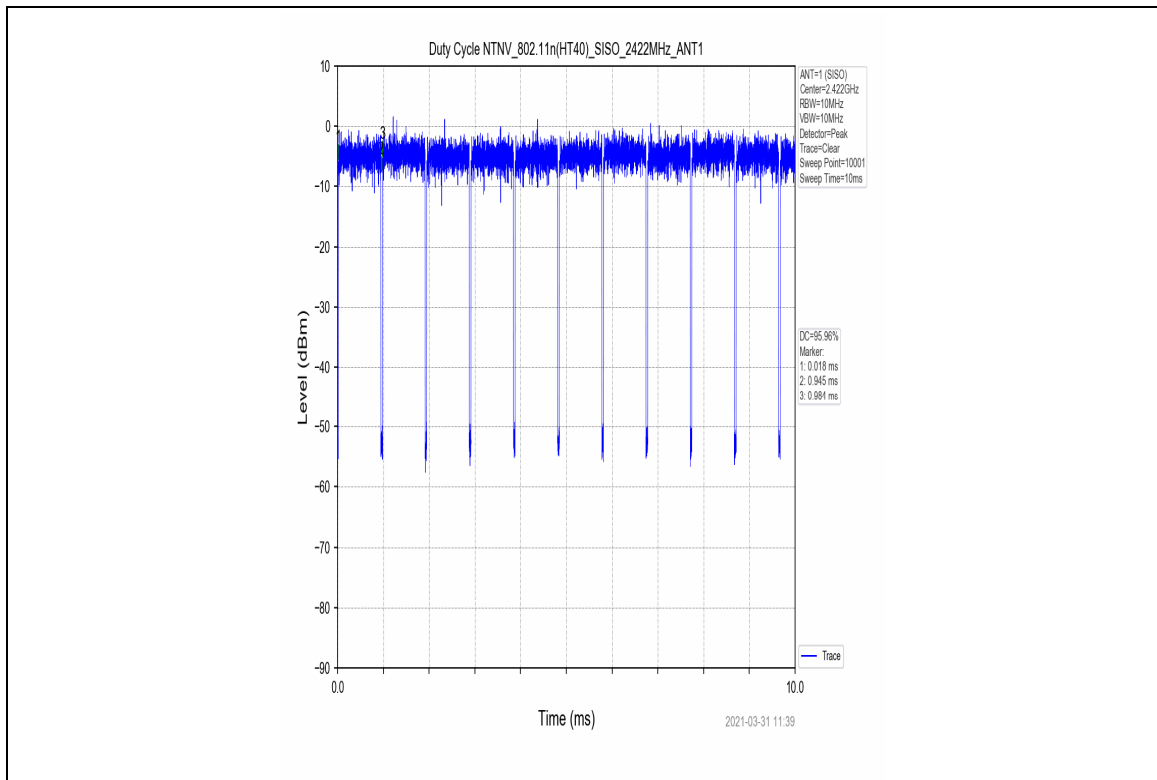
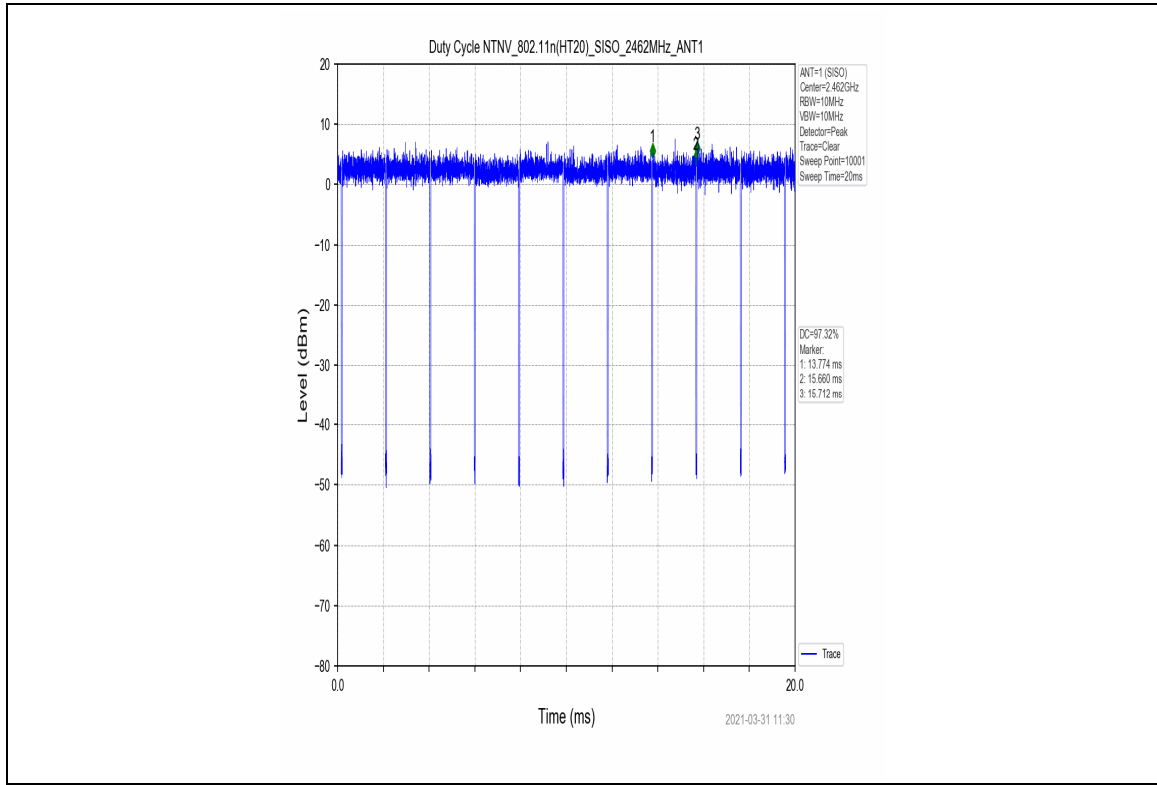
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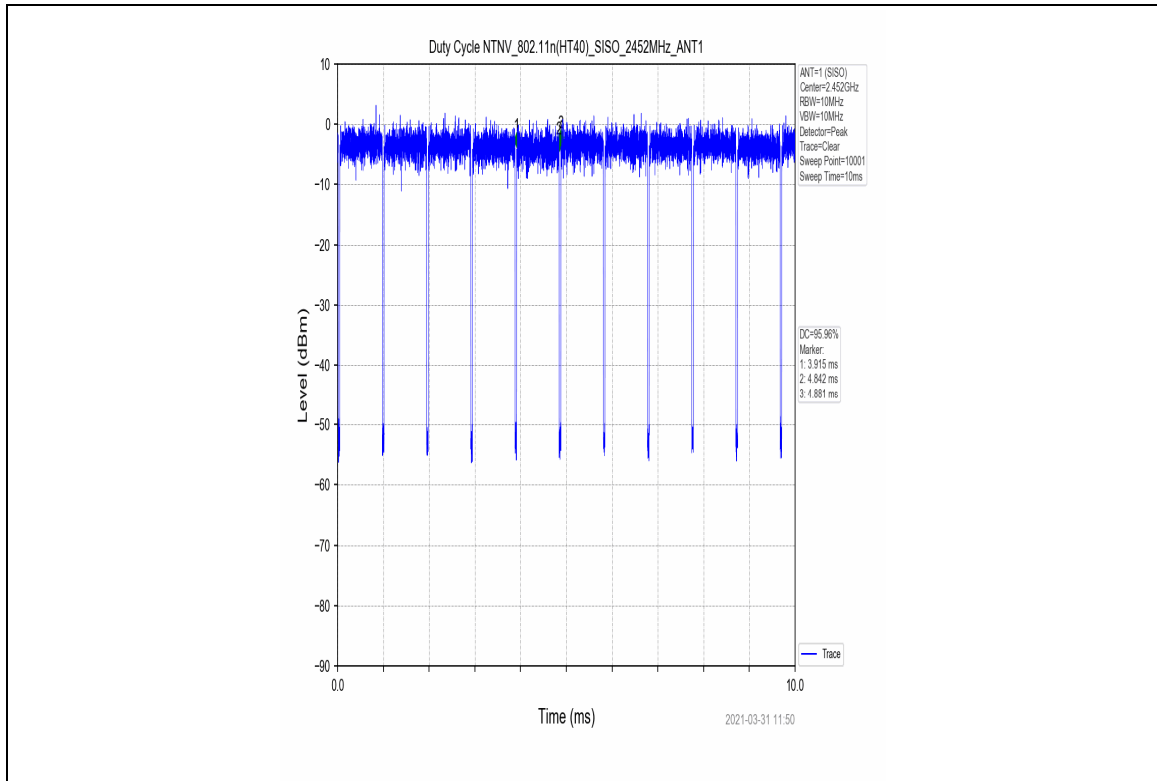
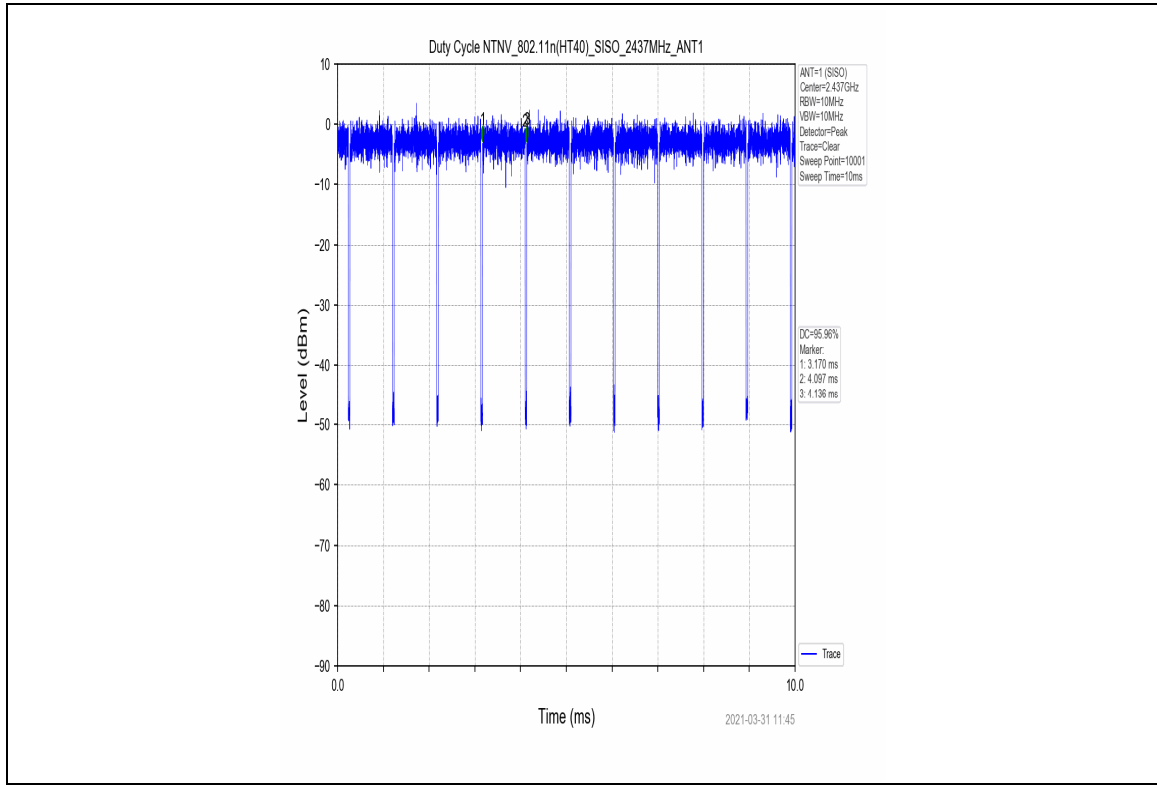
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## 2. Bandwidth

### 2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.100	≥0.5	PASS
	2437	SISO	1	10.135	≥0.5	PASS
	2462	SISO	1	10.064	≥0.5	PASS
802.11g	2412	SISO	1	16.456	≥0.5	PASS
	2437	SISO	1	16.369	≥0.5	PASS
	2462	SISO	1	16.383	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	16.665	≥0.5	PASS
	2437	SISO	1	17.575	≥0.5	PASS
	2462	SISO	1	17.336	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	36.140	≥0.5	PASS
	2437	SISO	1	36.389	≥0.5	PASS
	2452	SISO	1	36.381	≥0.5	PASS

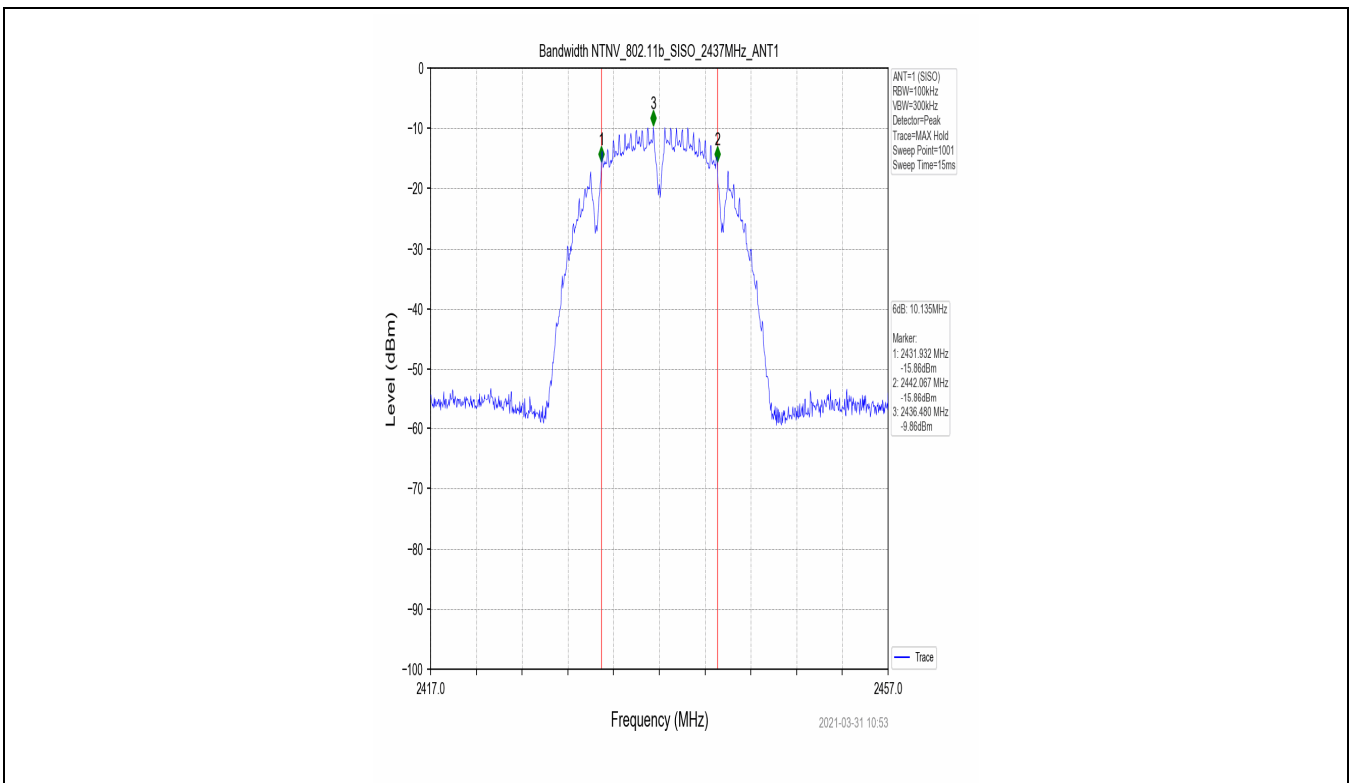
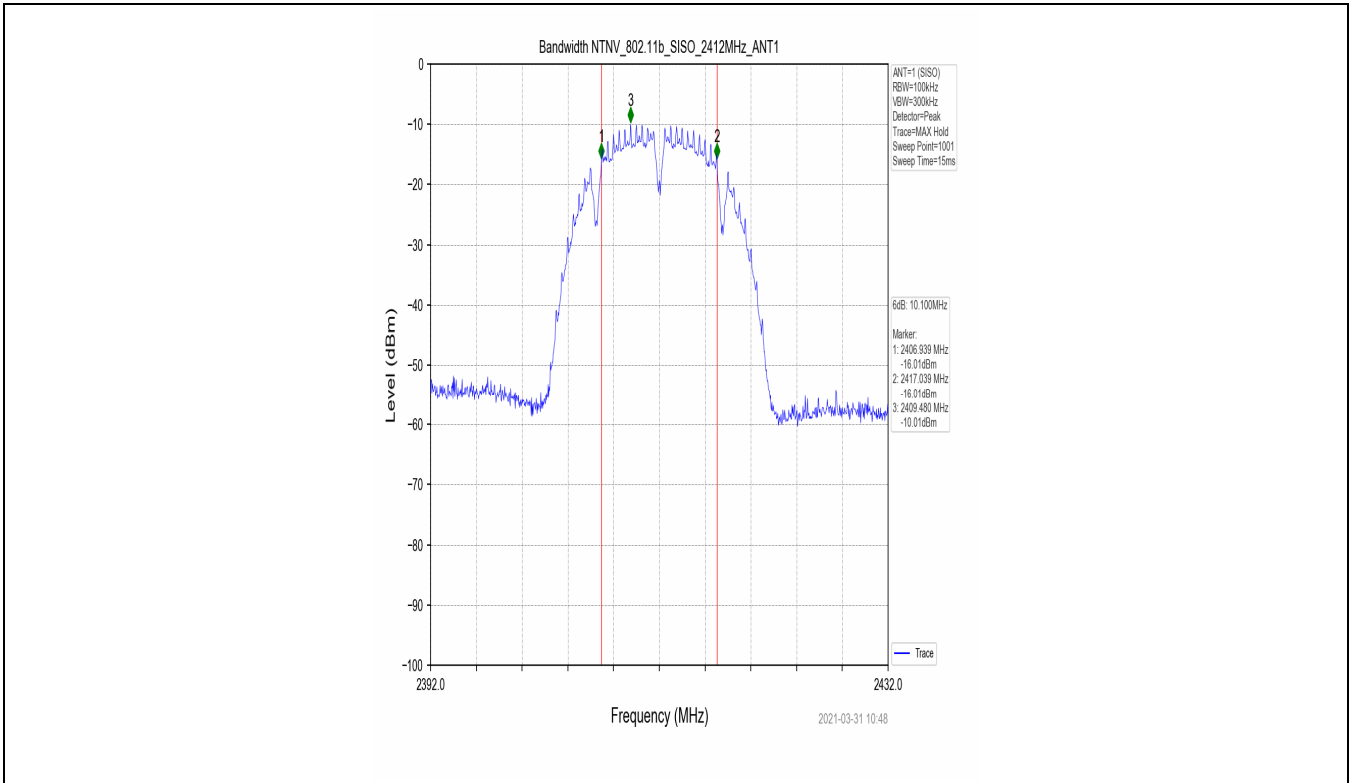
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.953	Only for Report Use
	2437	SISO	1	13.962	Only for Report Use
	2462	SISO	1	13.938	Only for Report Use
802.11g	2412	SISO	1	17.346	Only for Report Use
	2437	SISO	1	17.324	Only for Report Use
	2462	SISO	1	17.334	Only for Report Use
802.11n(HT20)	2412	SISO	1	18.409	Only for Report Use
	2437	SISO	1	18.400	Only for Report Use
	2462	SISO	1	18.404	Only for Report Use
802.11n(HT40)	2422	SISO	1	38.385	Only for Report Use
	2437	SISO	1	38.739	Only for Report Use
	2452	SISO	1	38.598	Only for Report Use

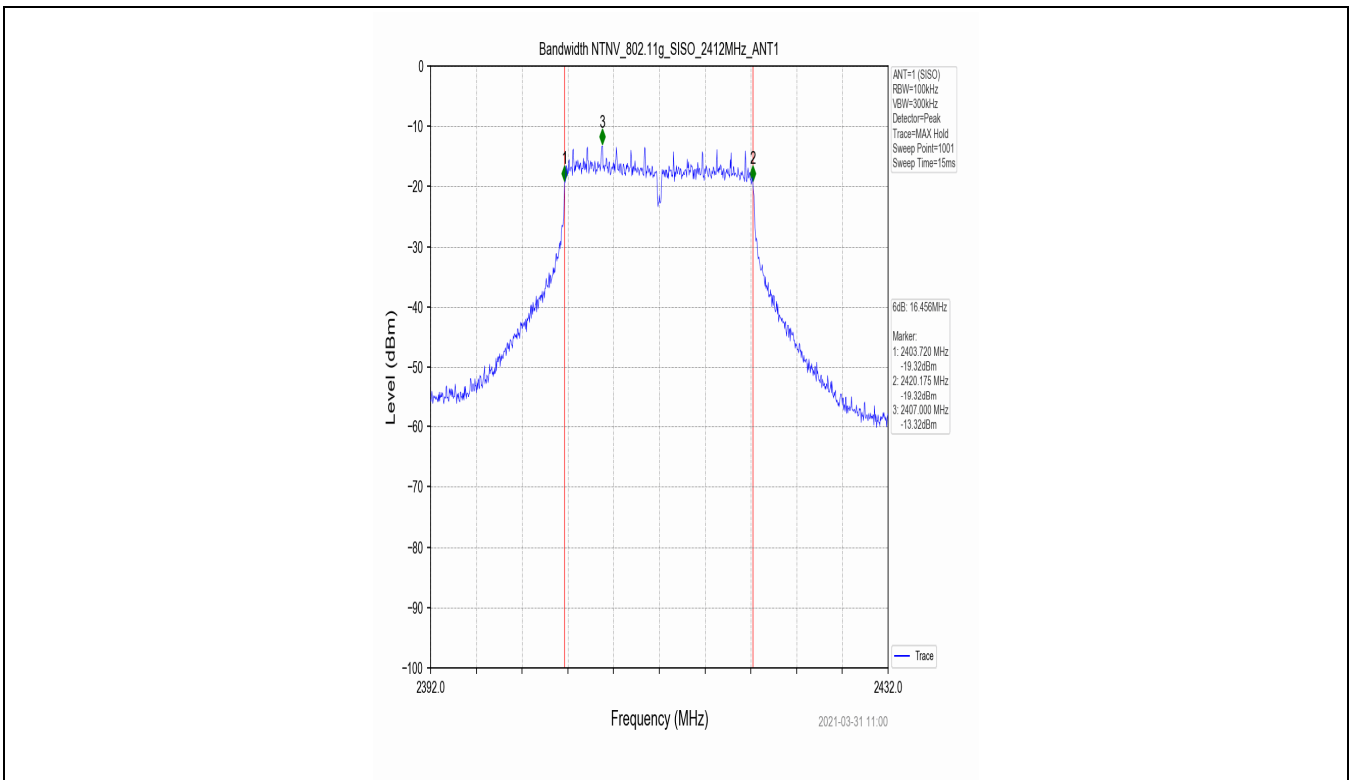
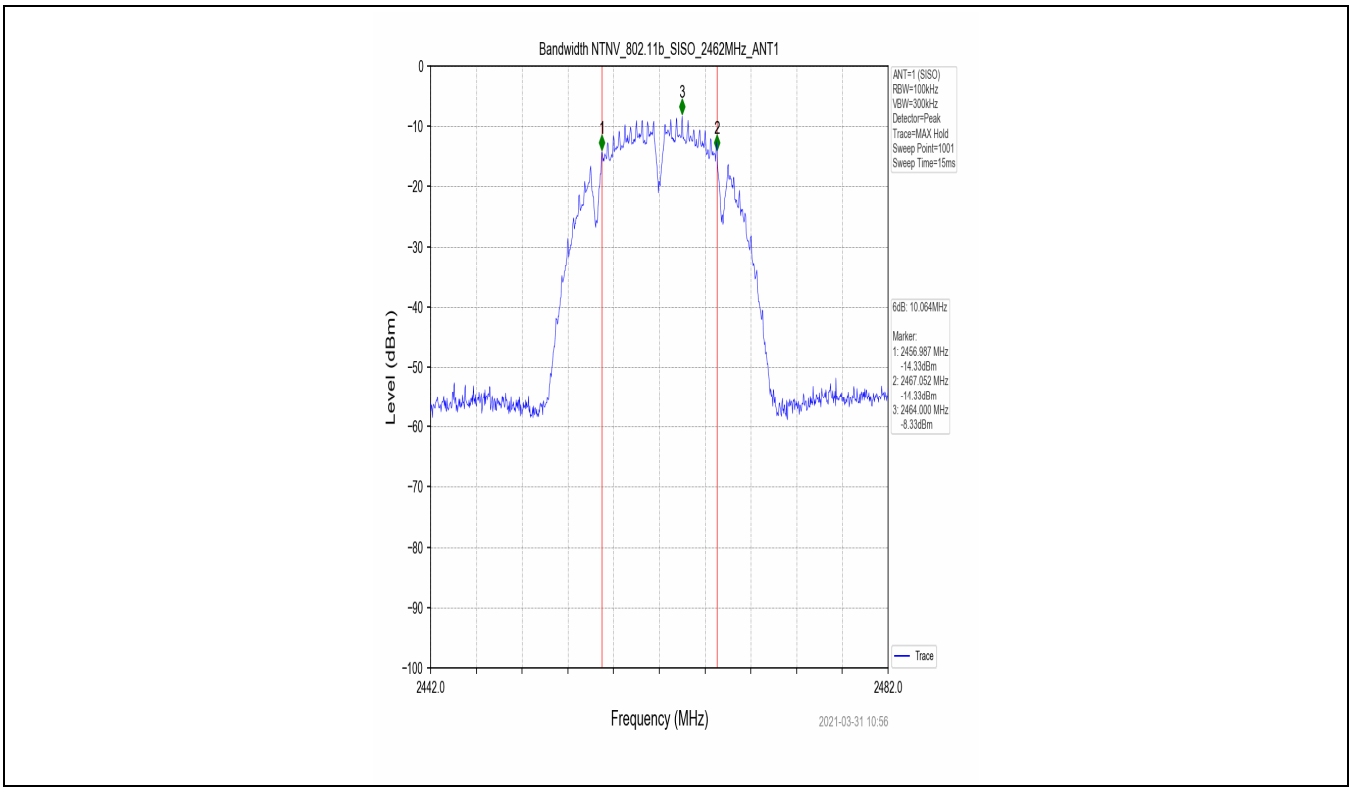


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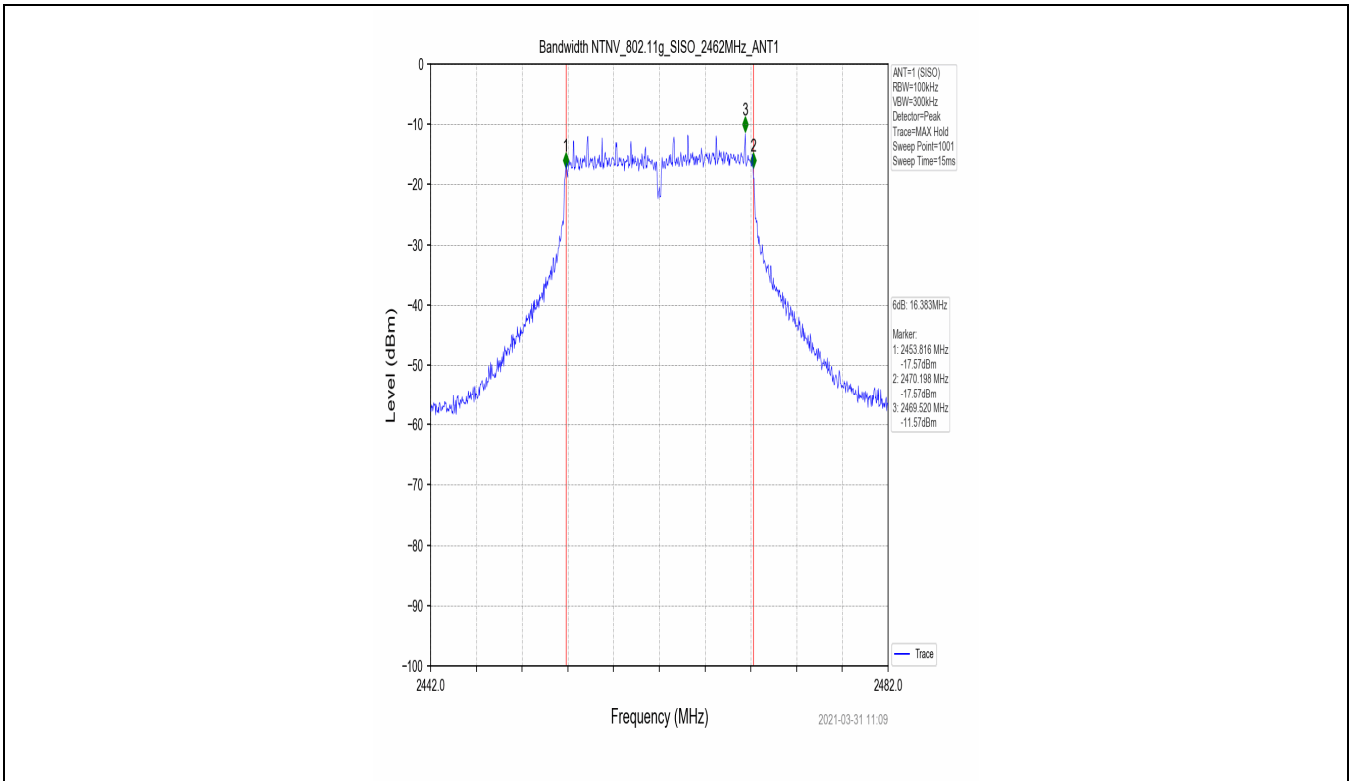
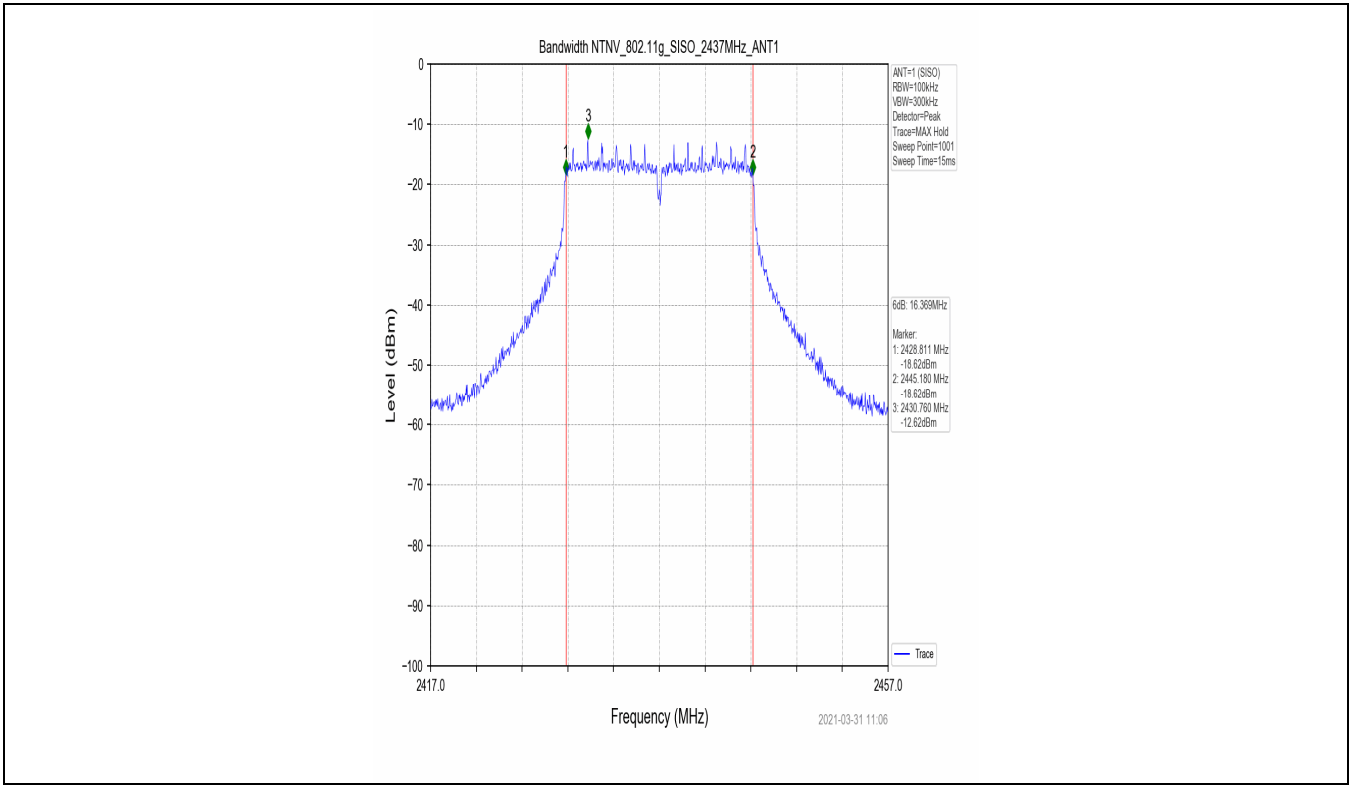
**2.2 Test Graph - 6dB Bandwidth**





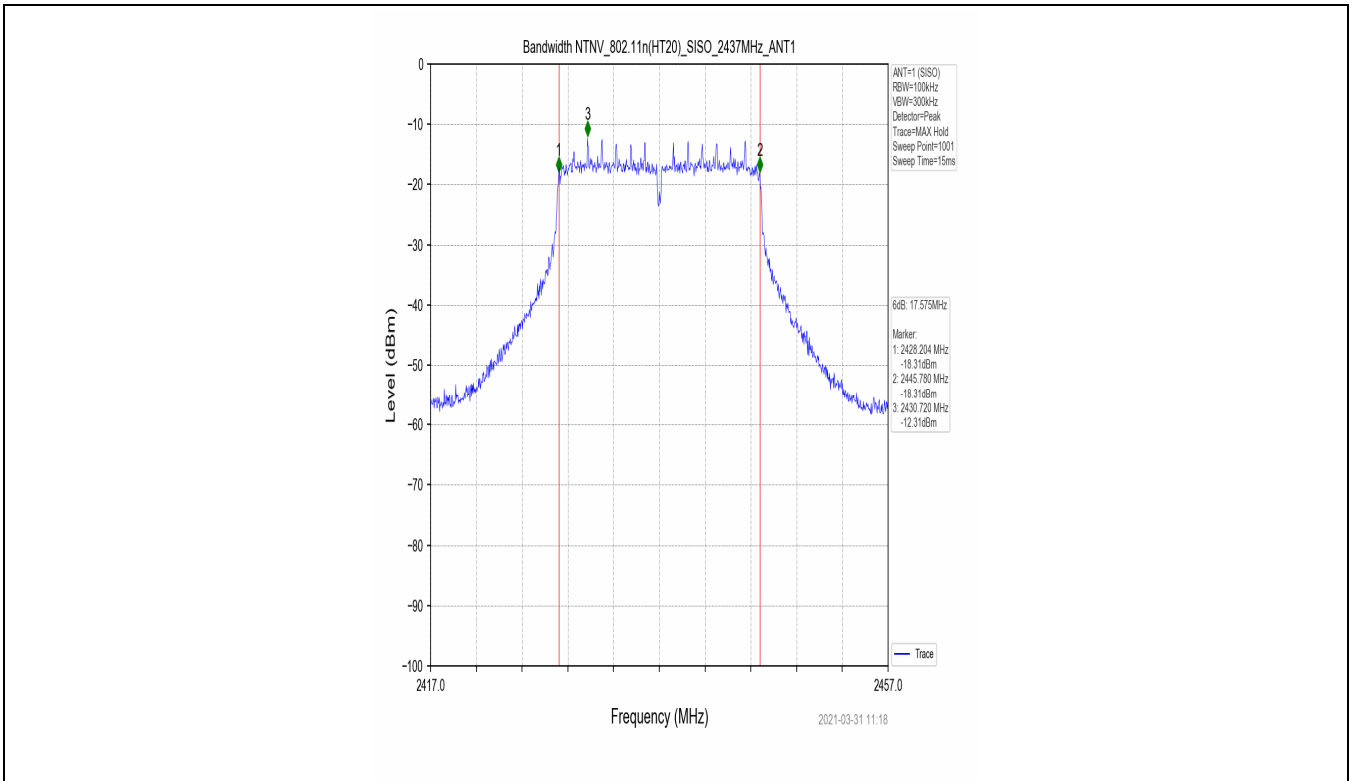
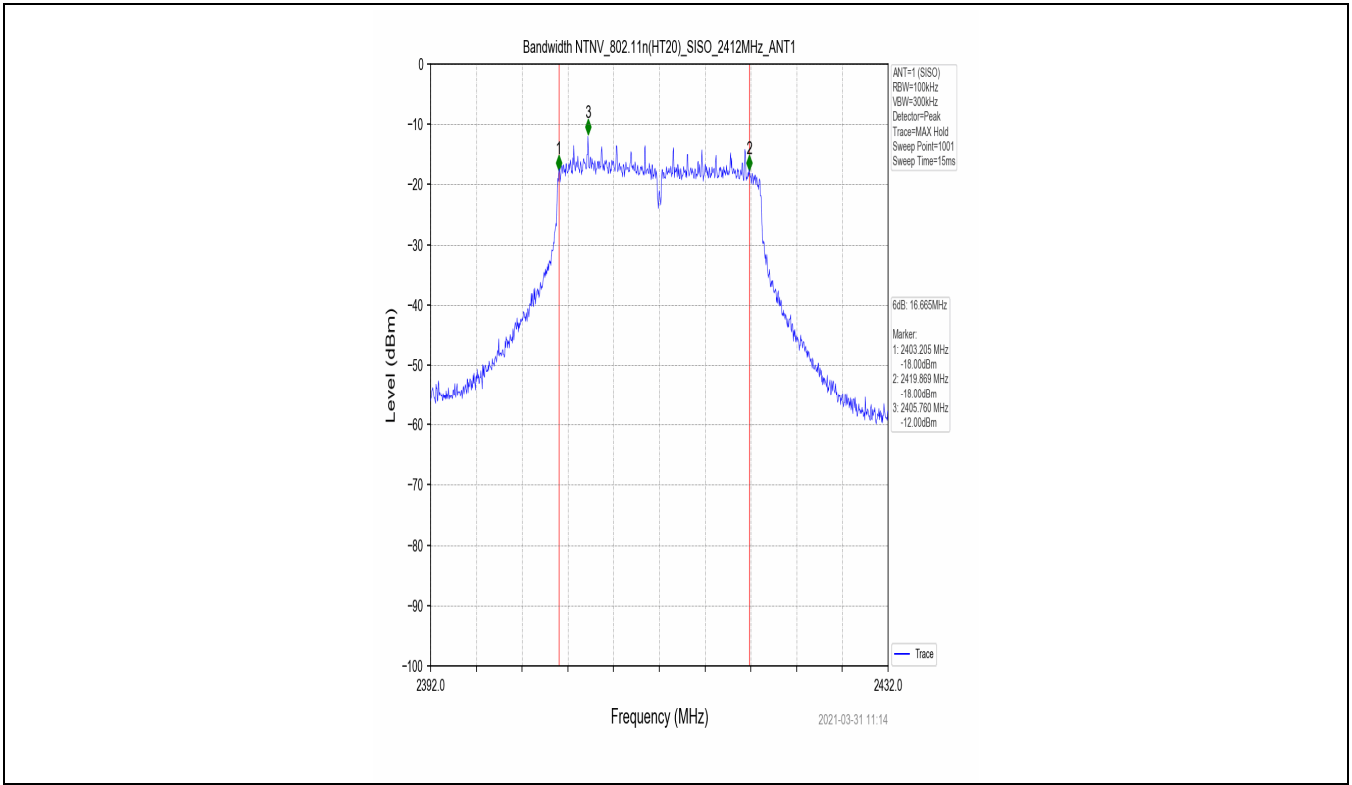
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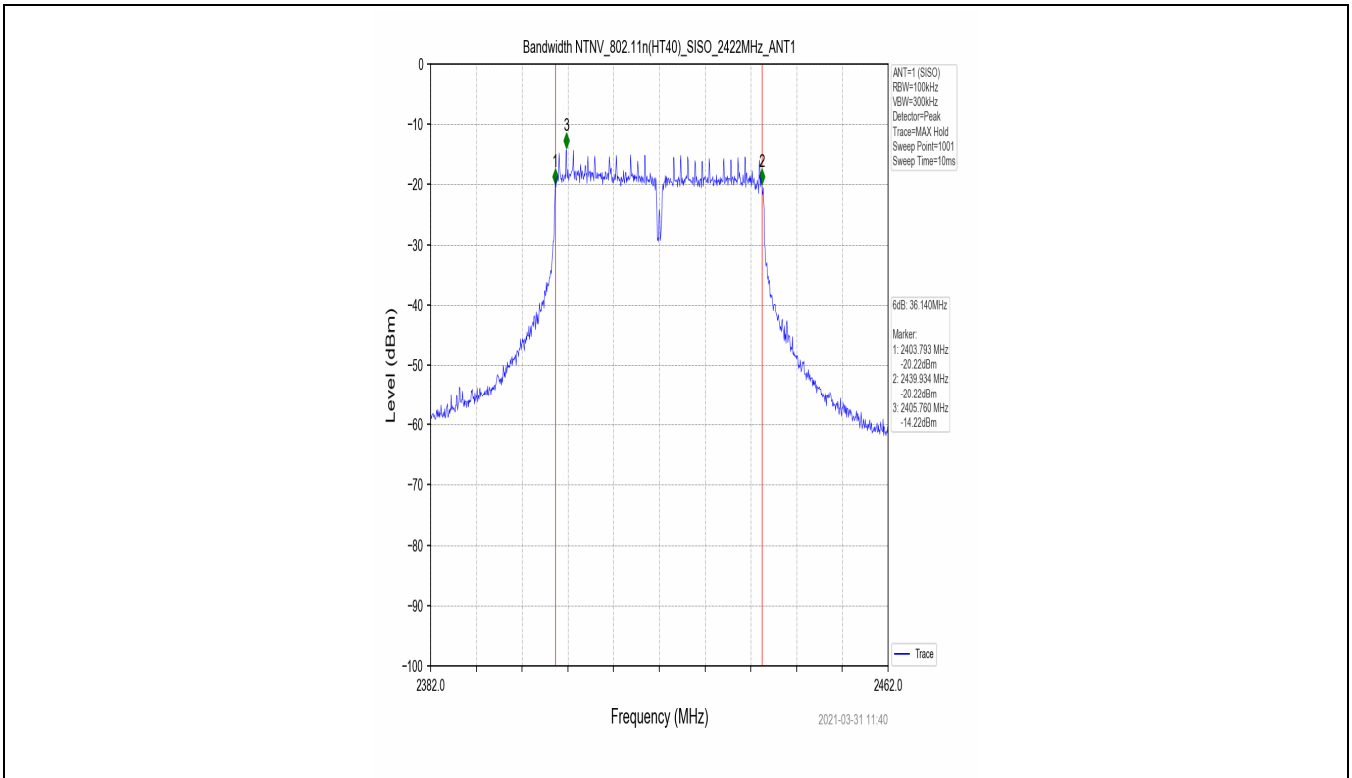
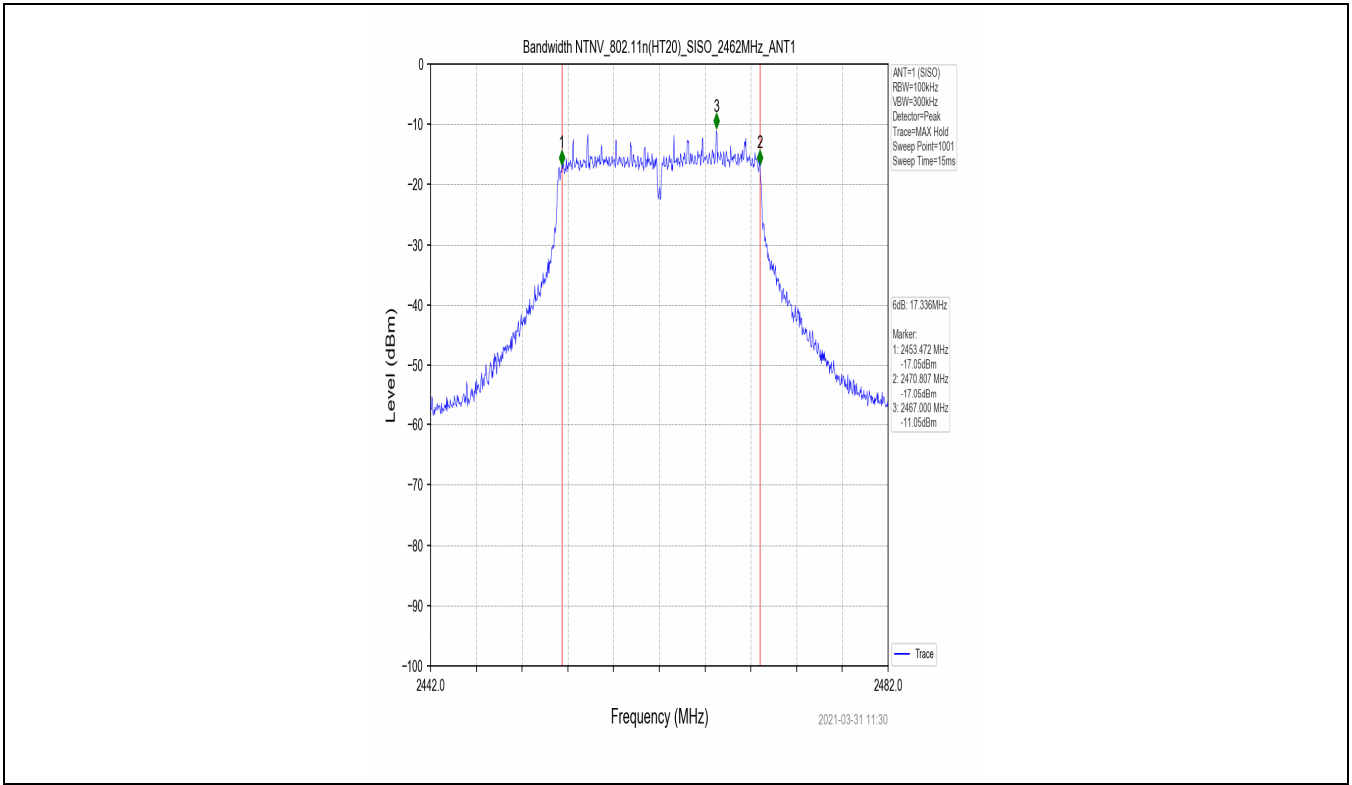


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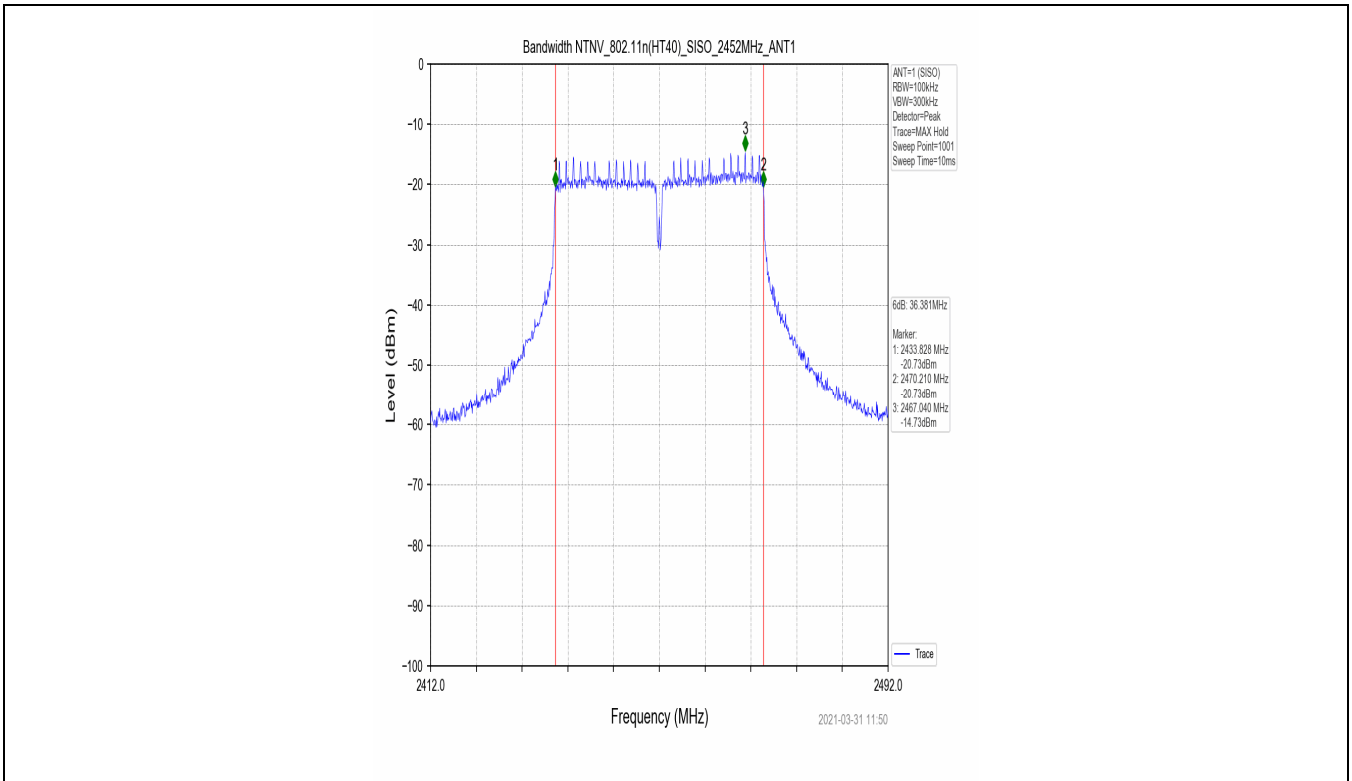
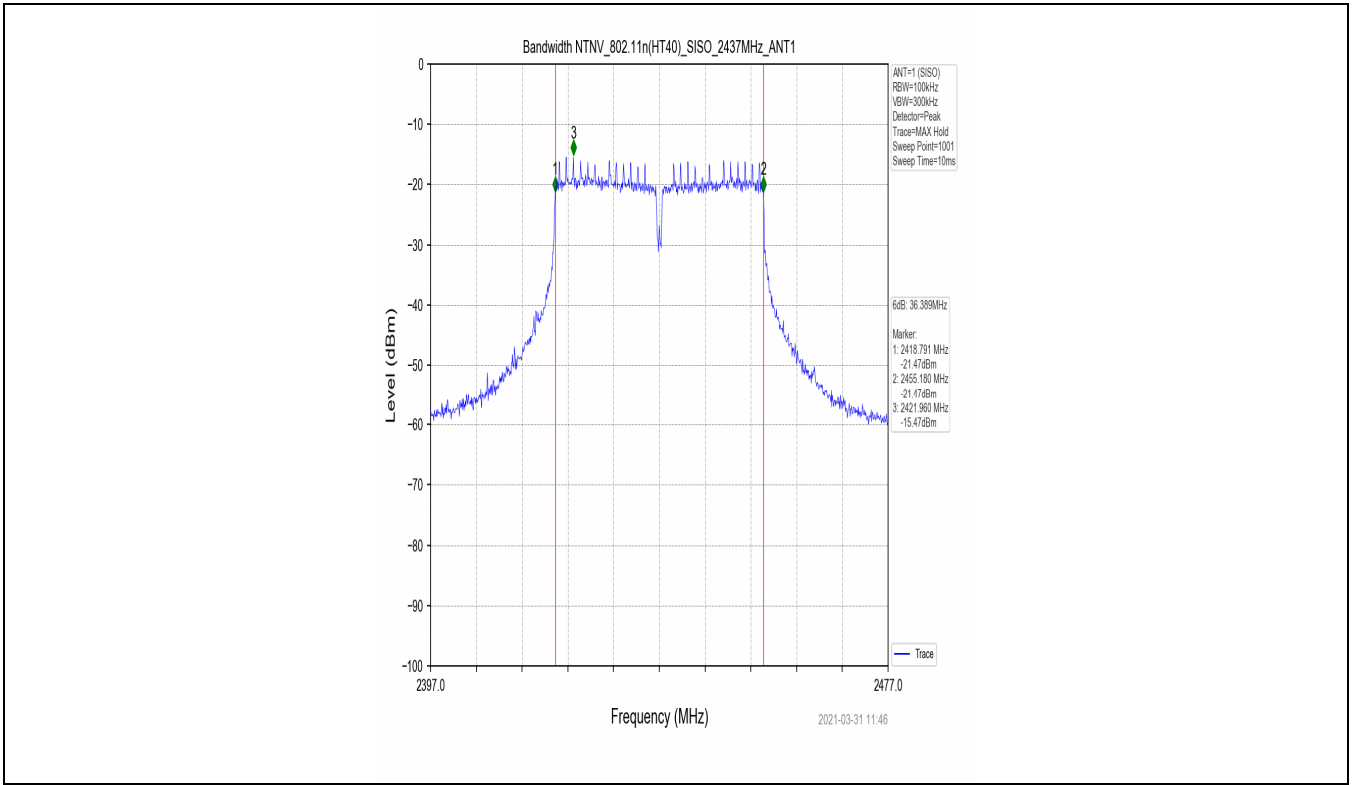


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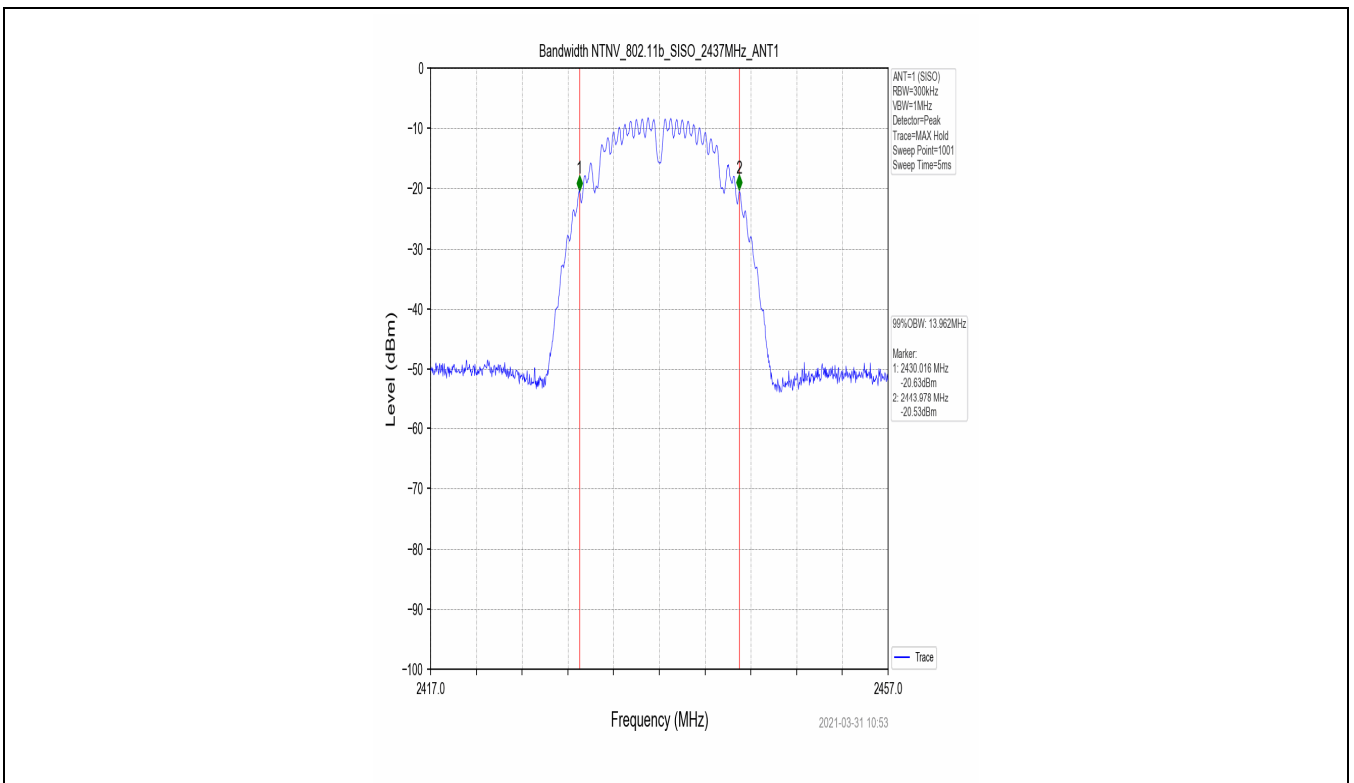
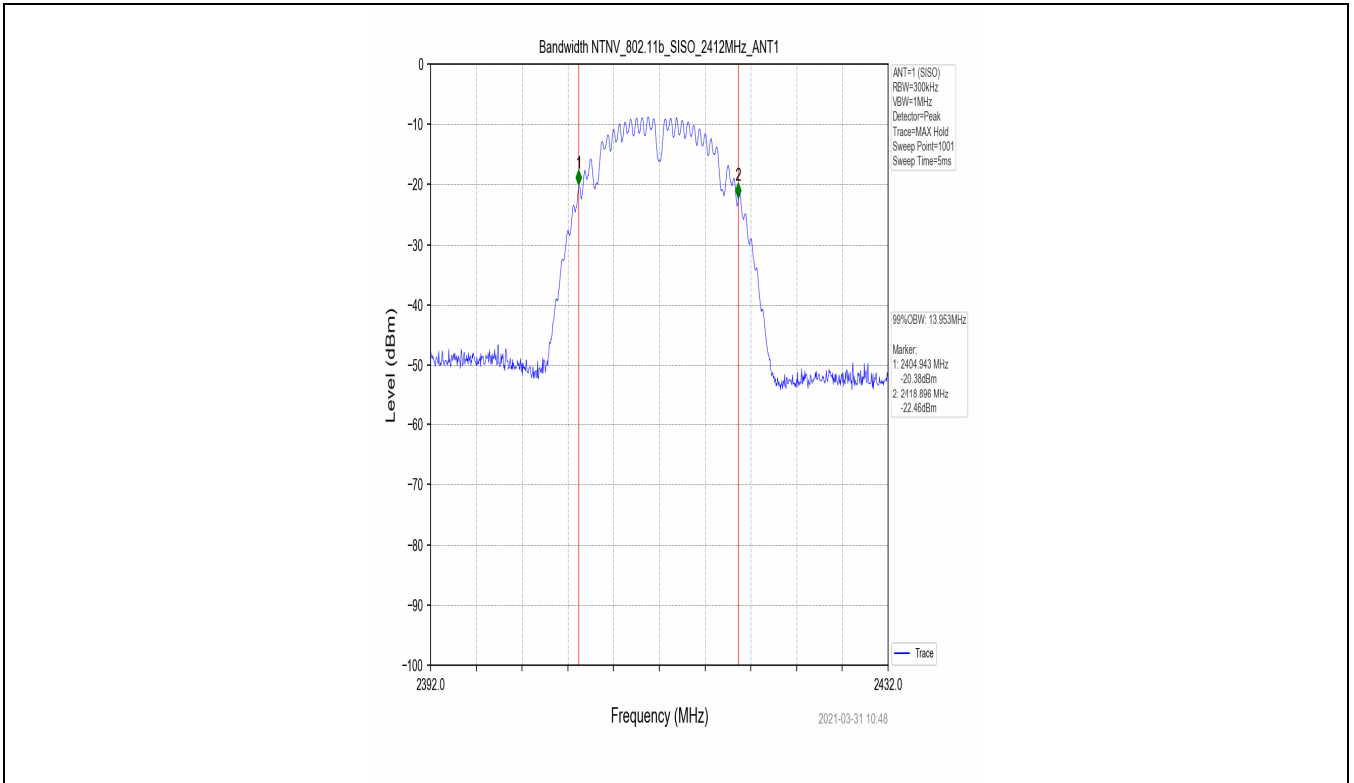
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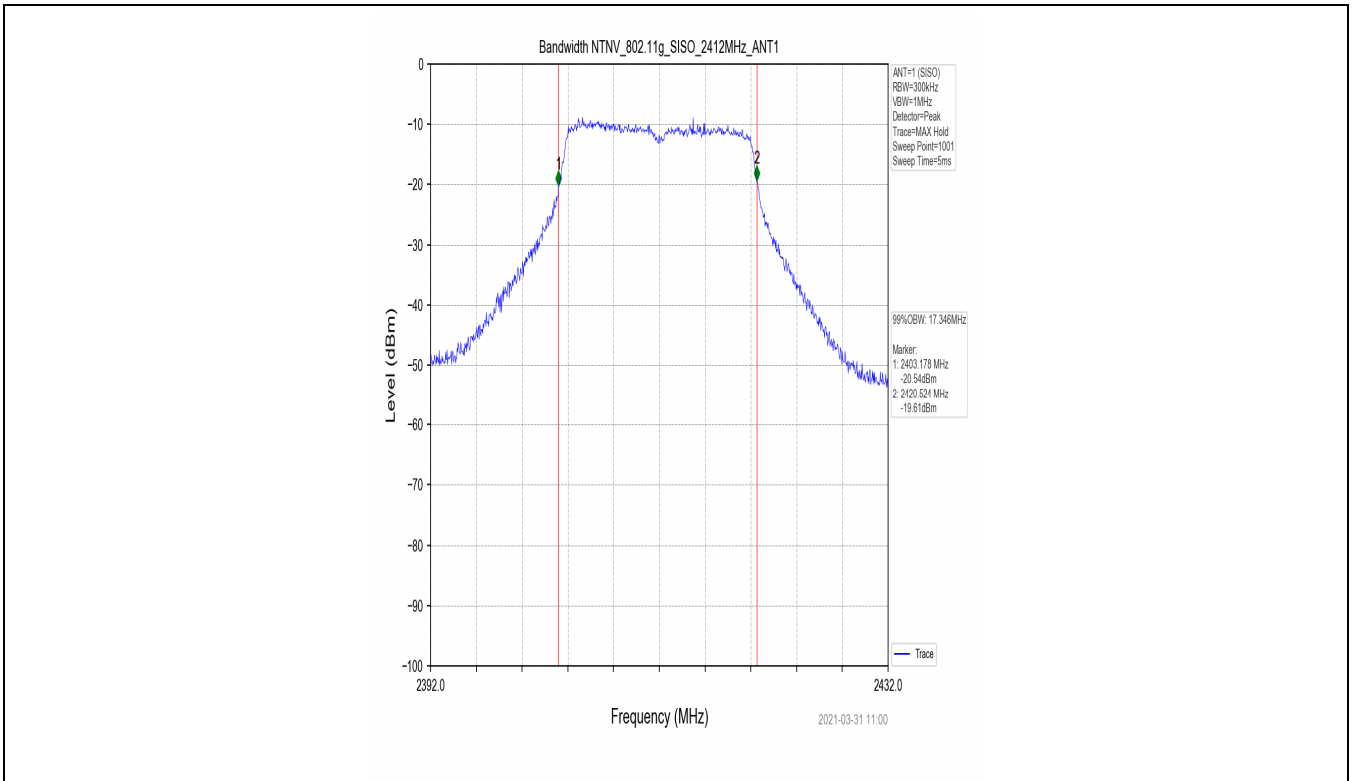
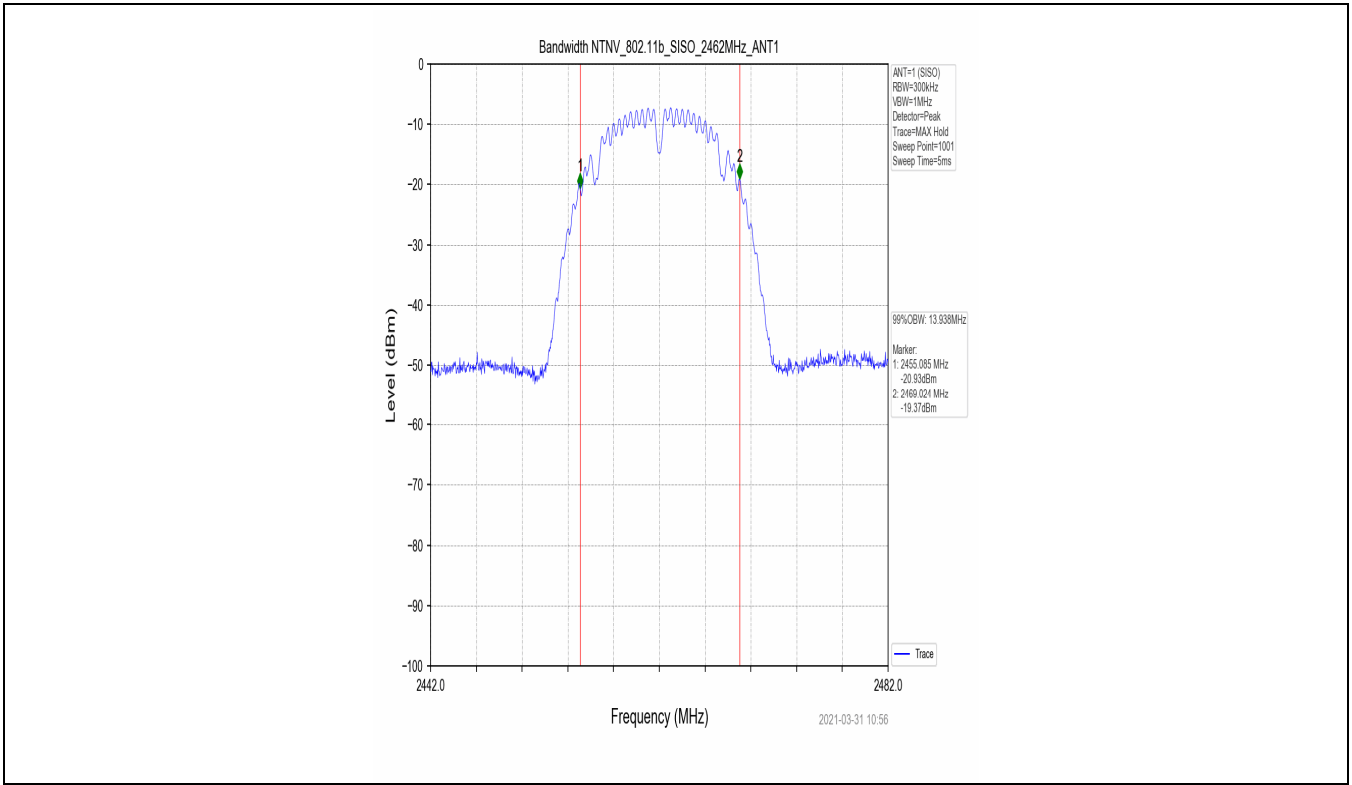


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### 2.3 Test Graph - 99% Occupied Bandwidth



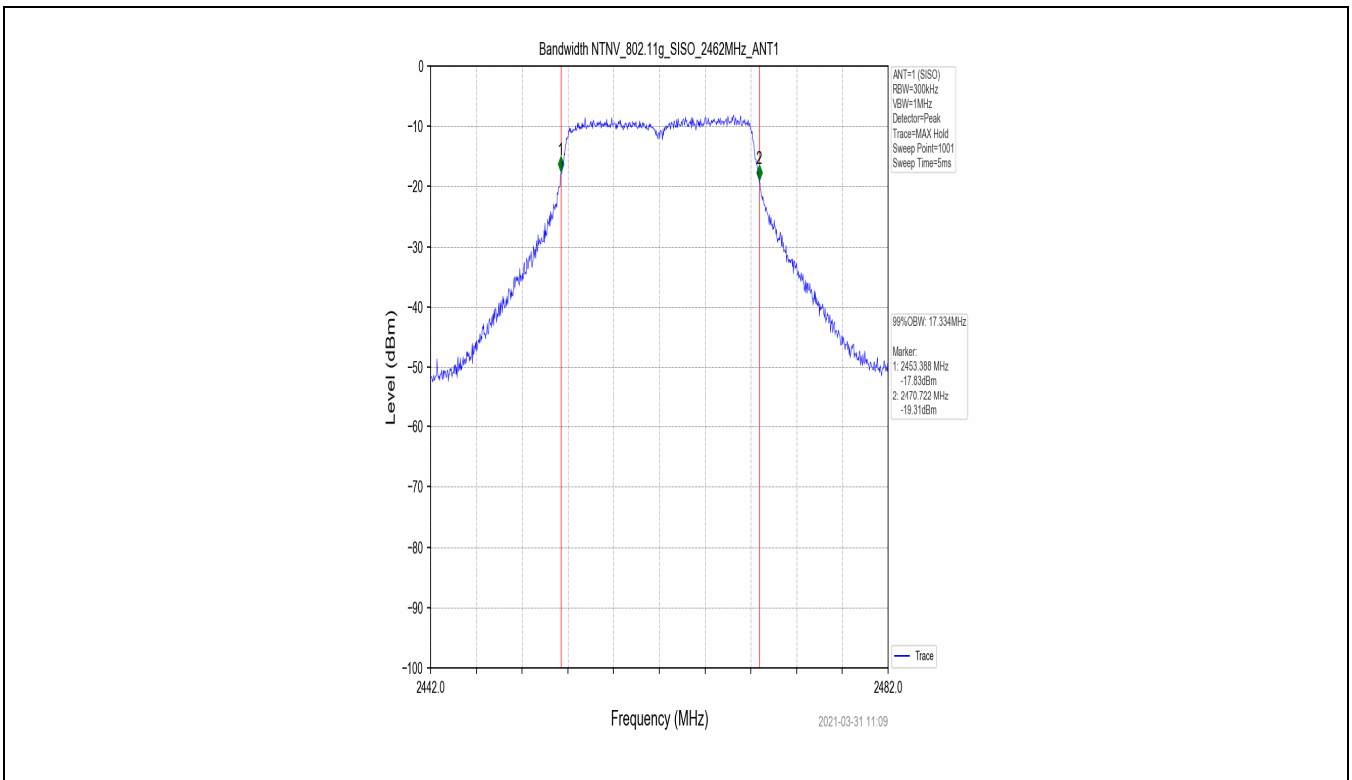
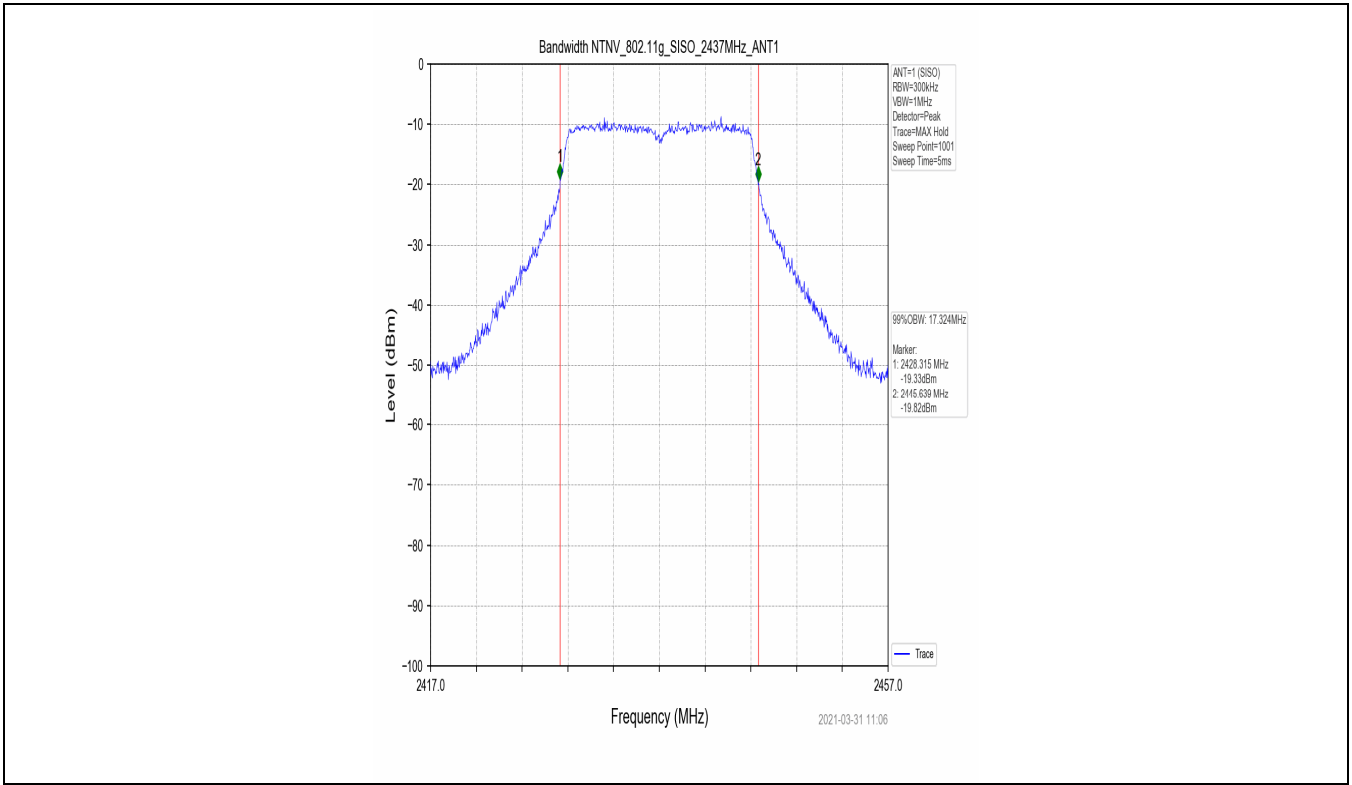
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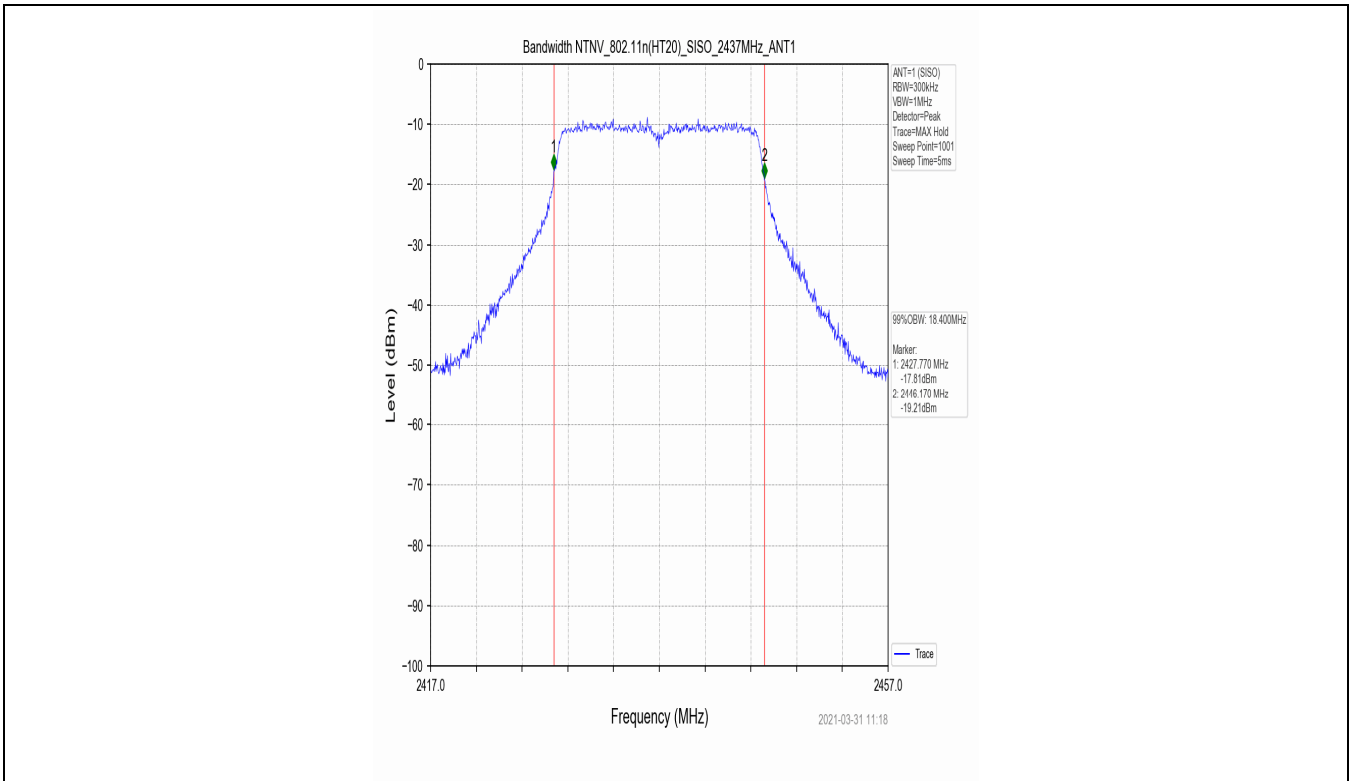
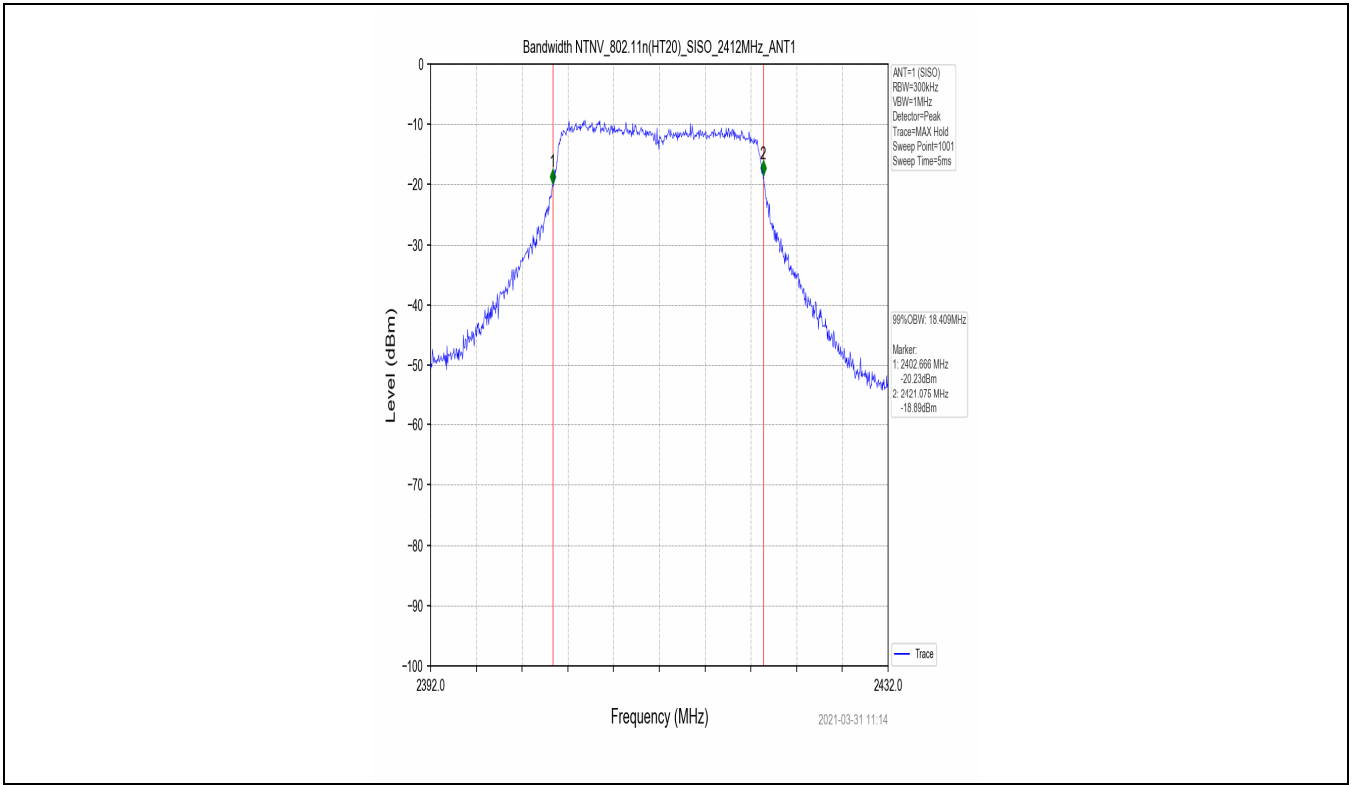
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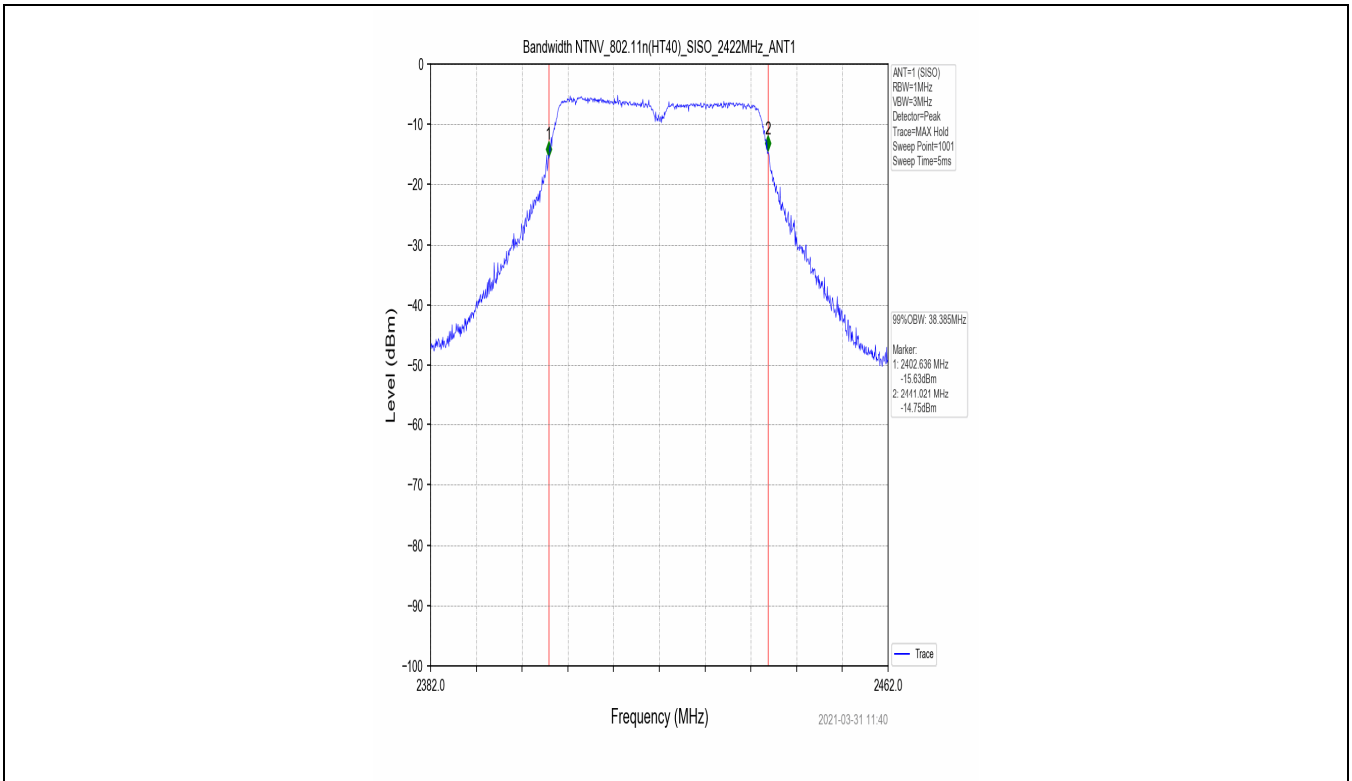
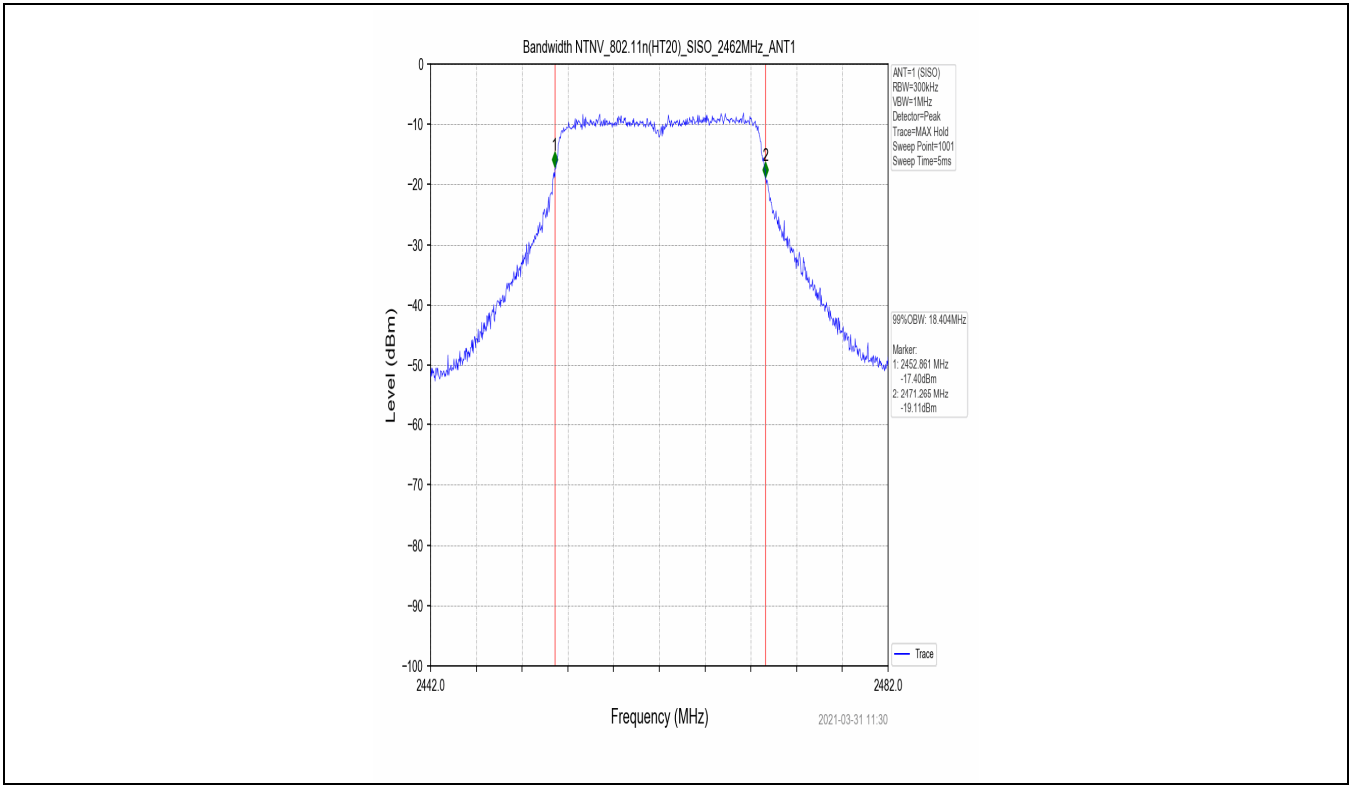
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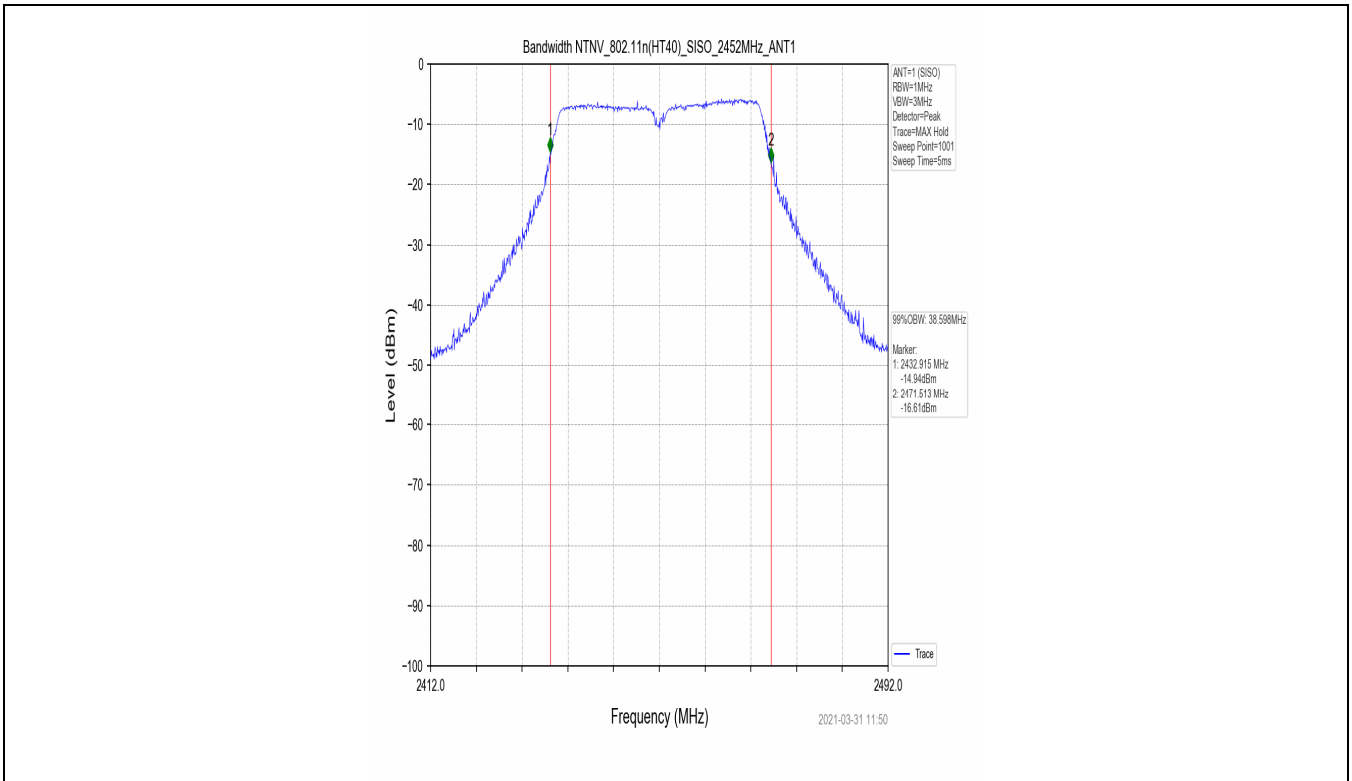
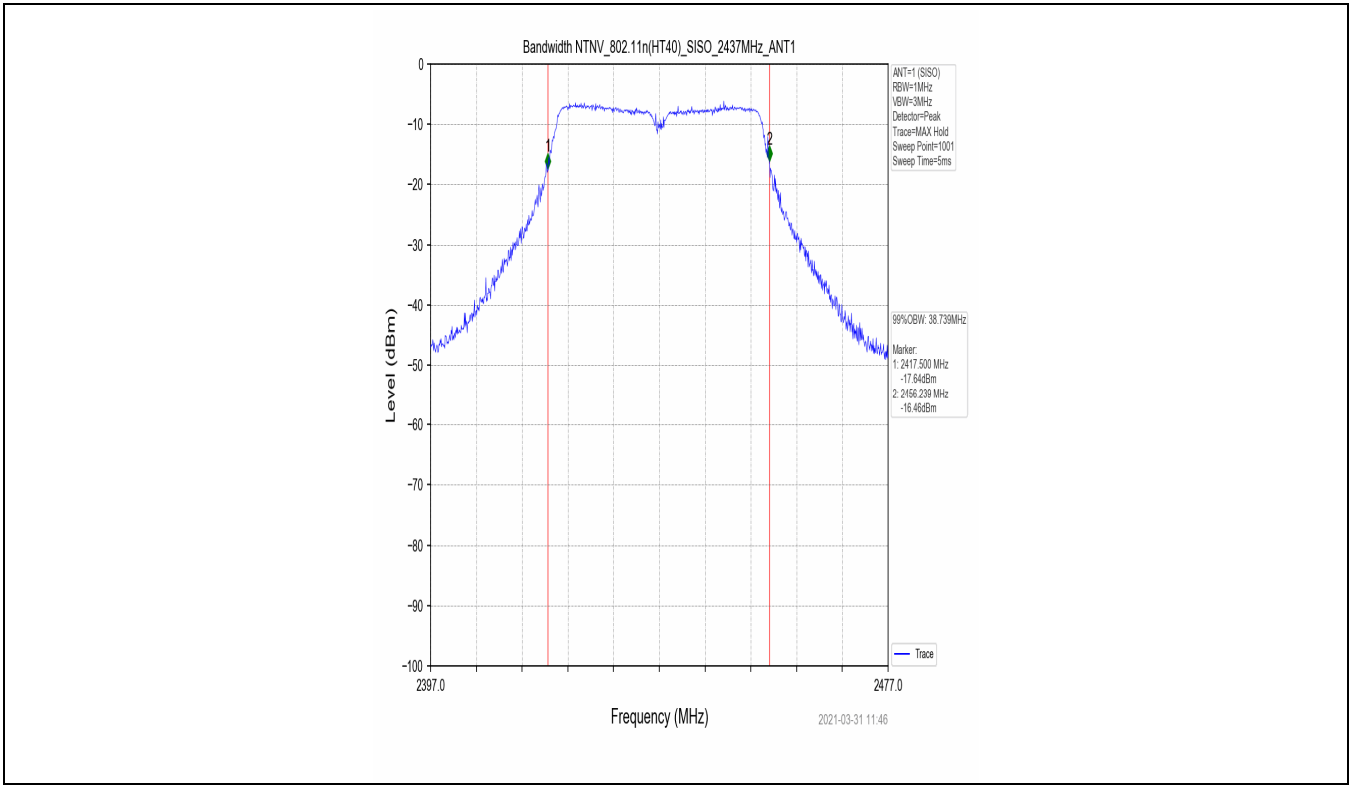
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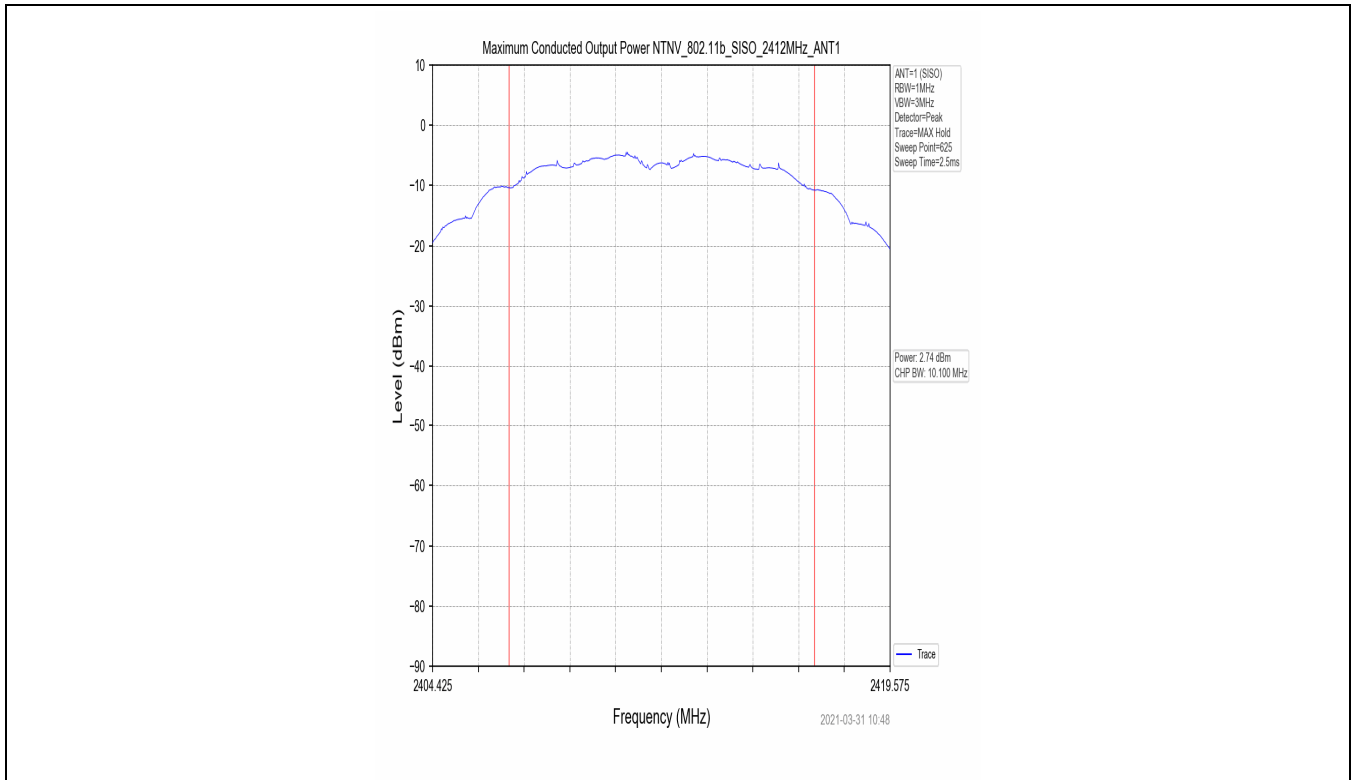
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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

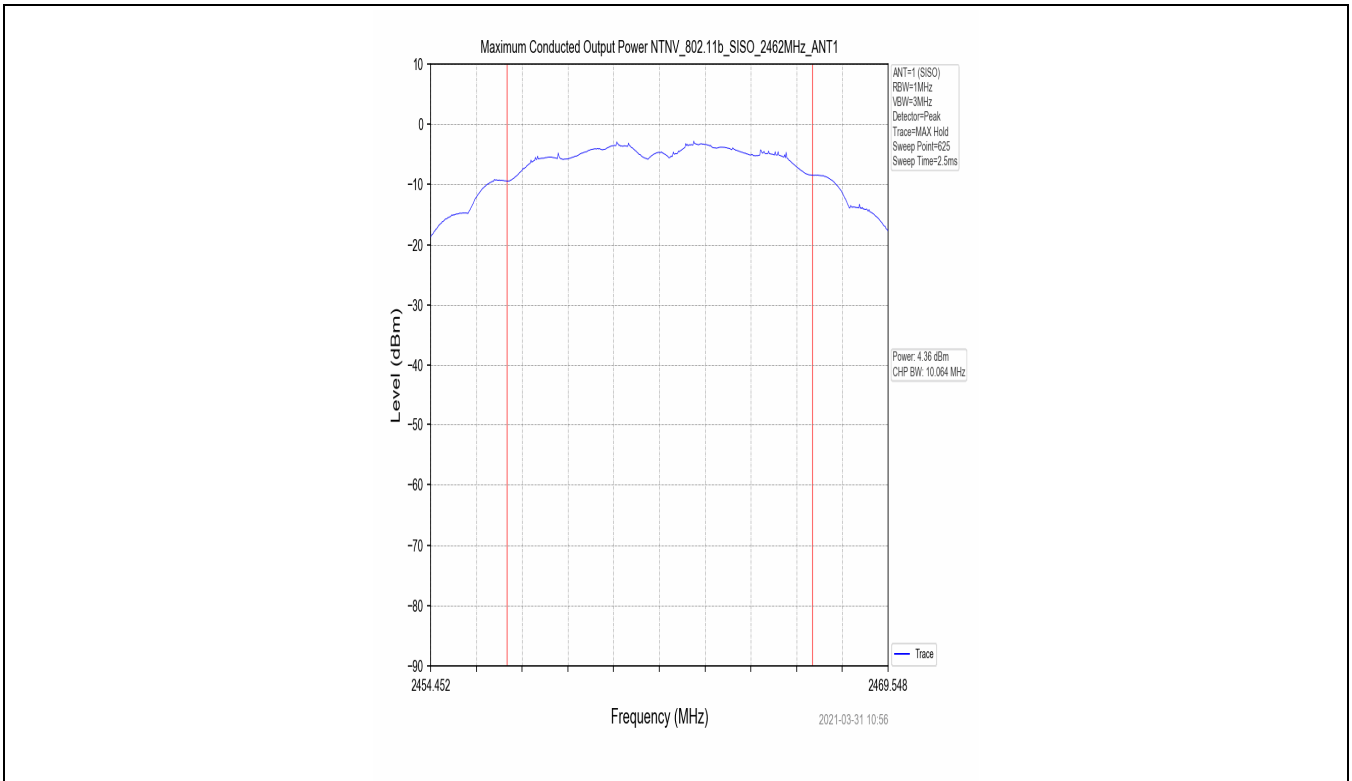
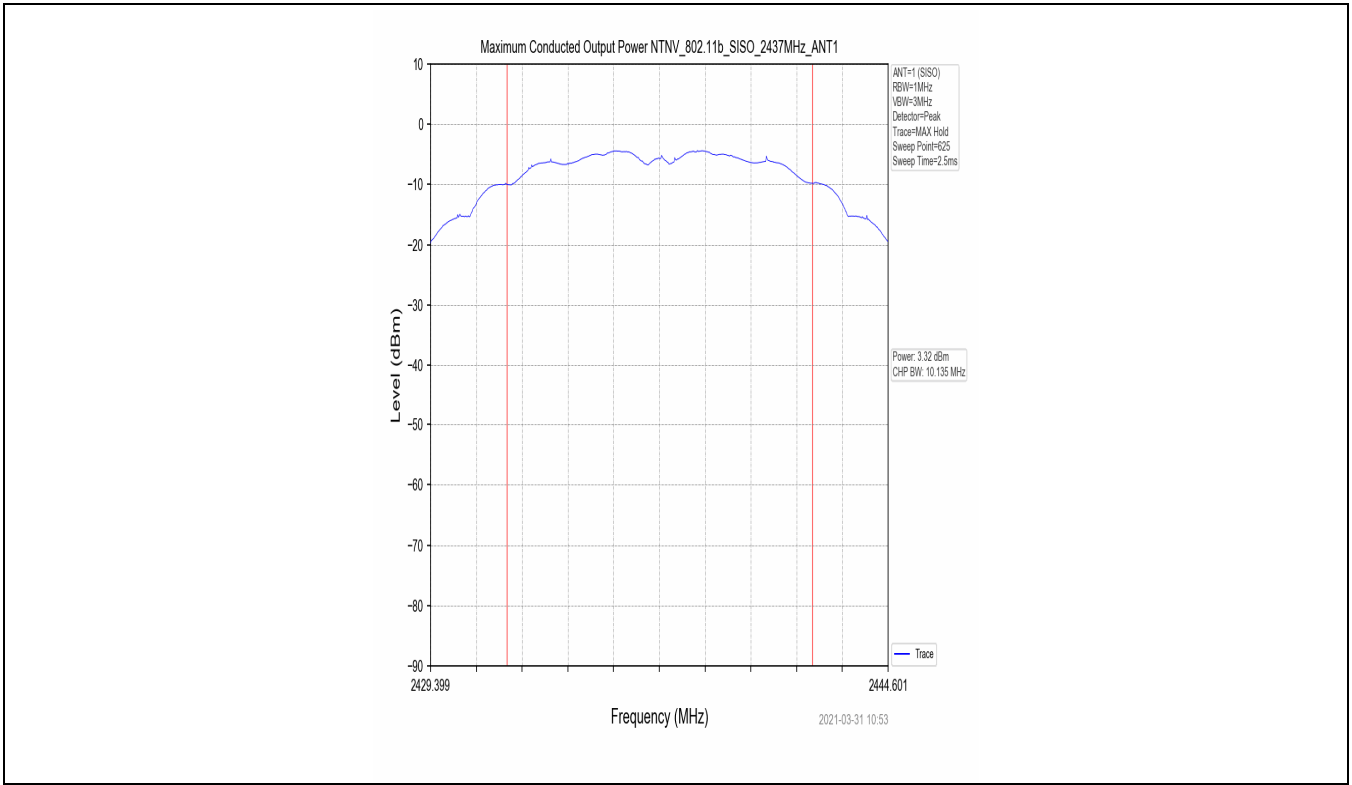
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	2.74	23.87	PASS
	2437	SISO	3.32	23.87	PASS
	2462	SISO	4.36	23.87	PASS
802.11g	2412	SISO	6.63	23.87	PASS
	2437	SISO	6.86	23.87	PASS
	2462	SISO	7.87	23.87	PASS
802.11n(HT20)	2412	SISO	6.42	23.87	PASS
	2437	SISO	7.03	23.87	PASS
	2462	SISO	8.14	23.87	PASS
802.11n(HT40)	2422	SISO	7.99	23.87	PASS
	2437	SISO	6.94	23.87	PASS
	2452	SISO	7.67	23.87	PASS

#### 3.2 Test Graph

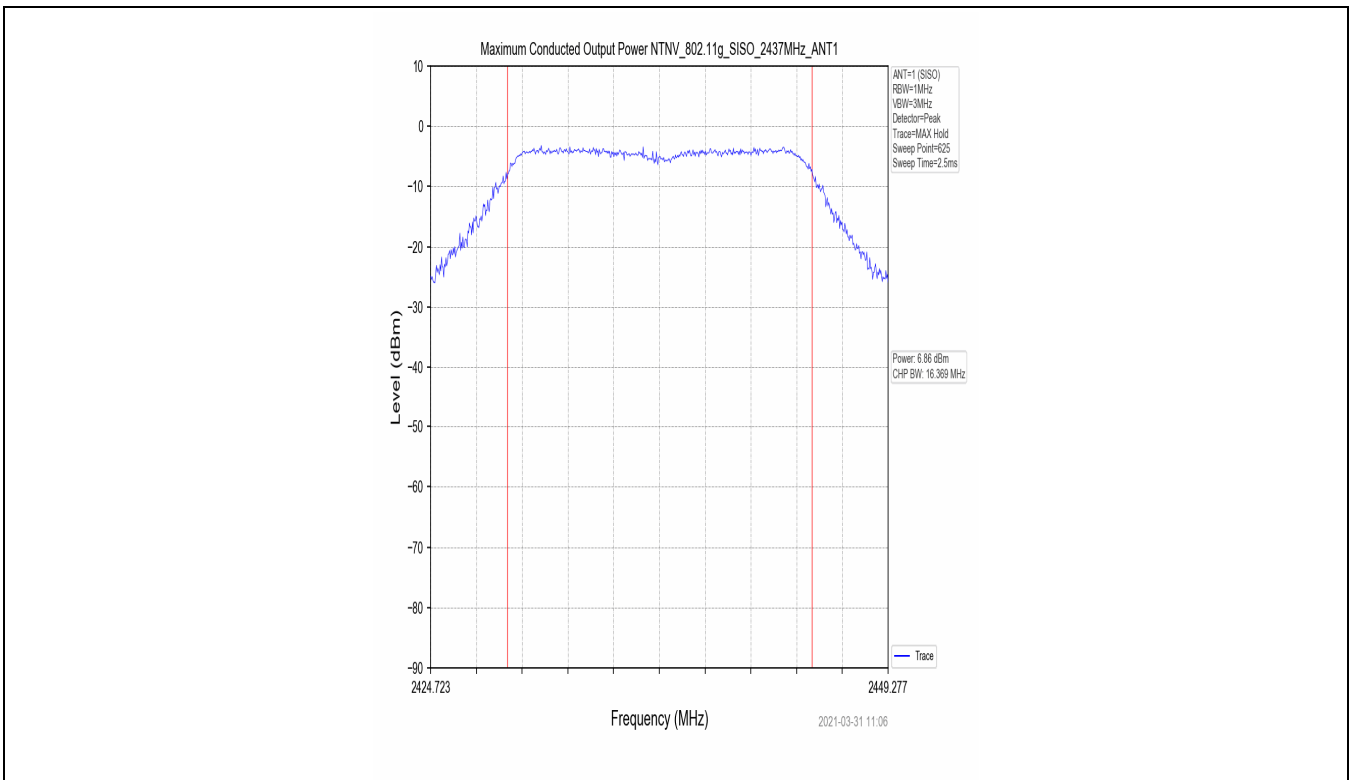
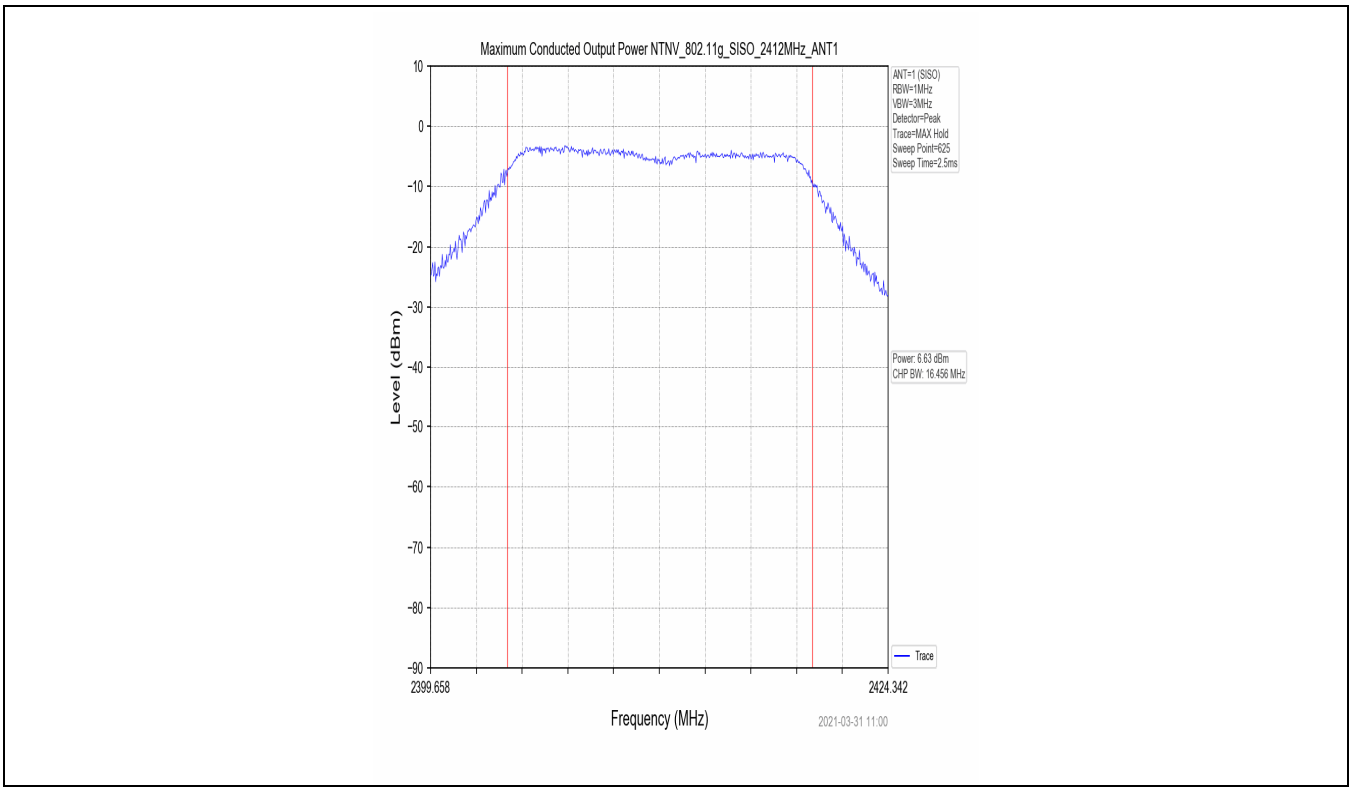


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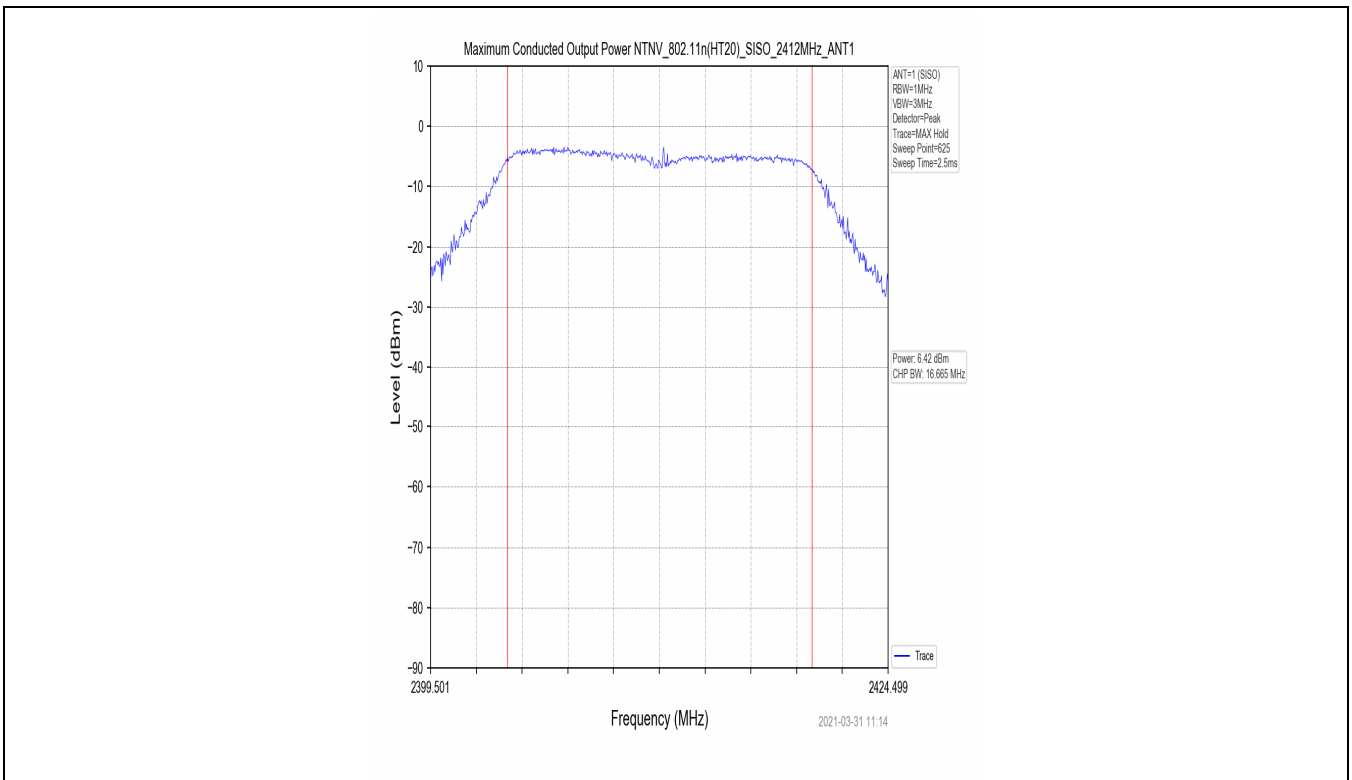
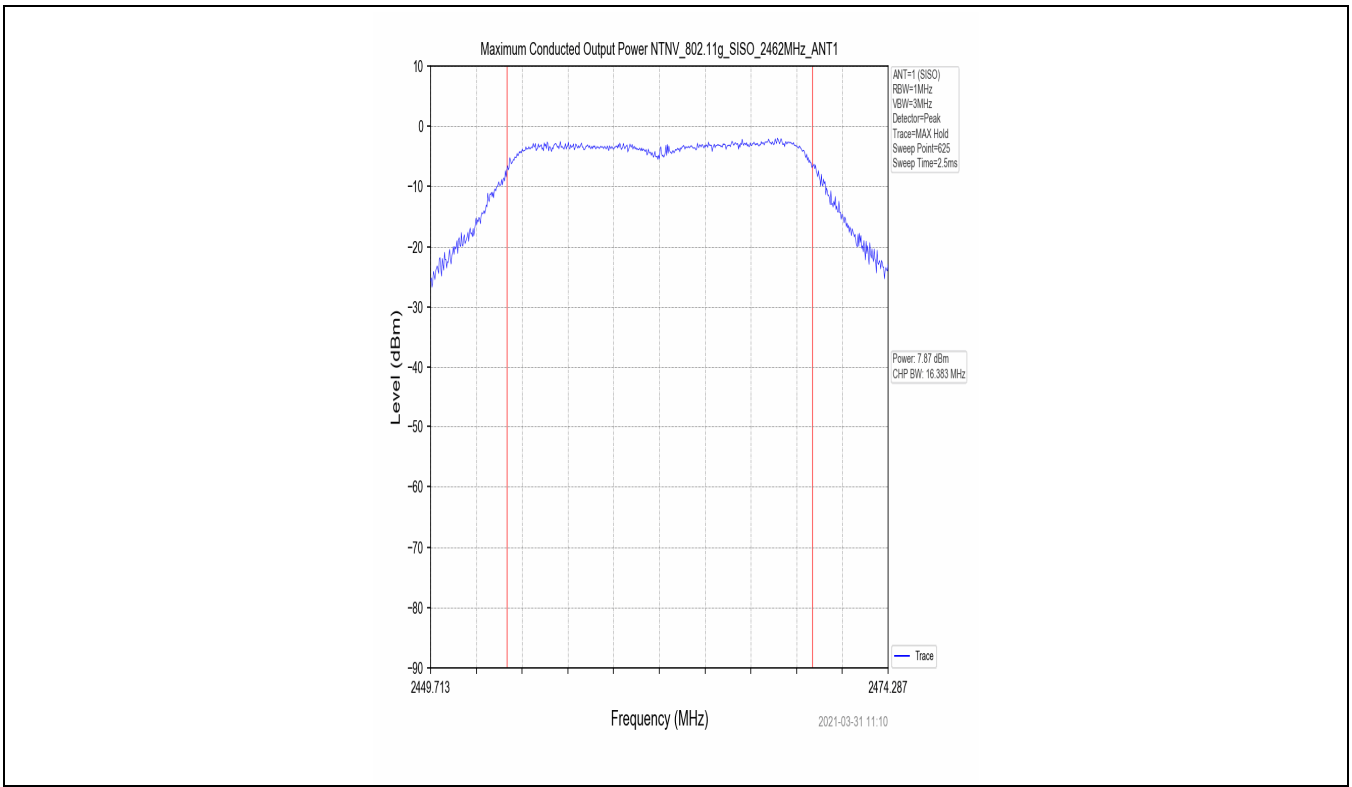


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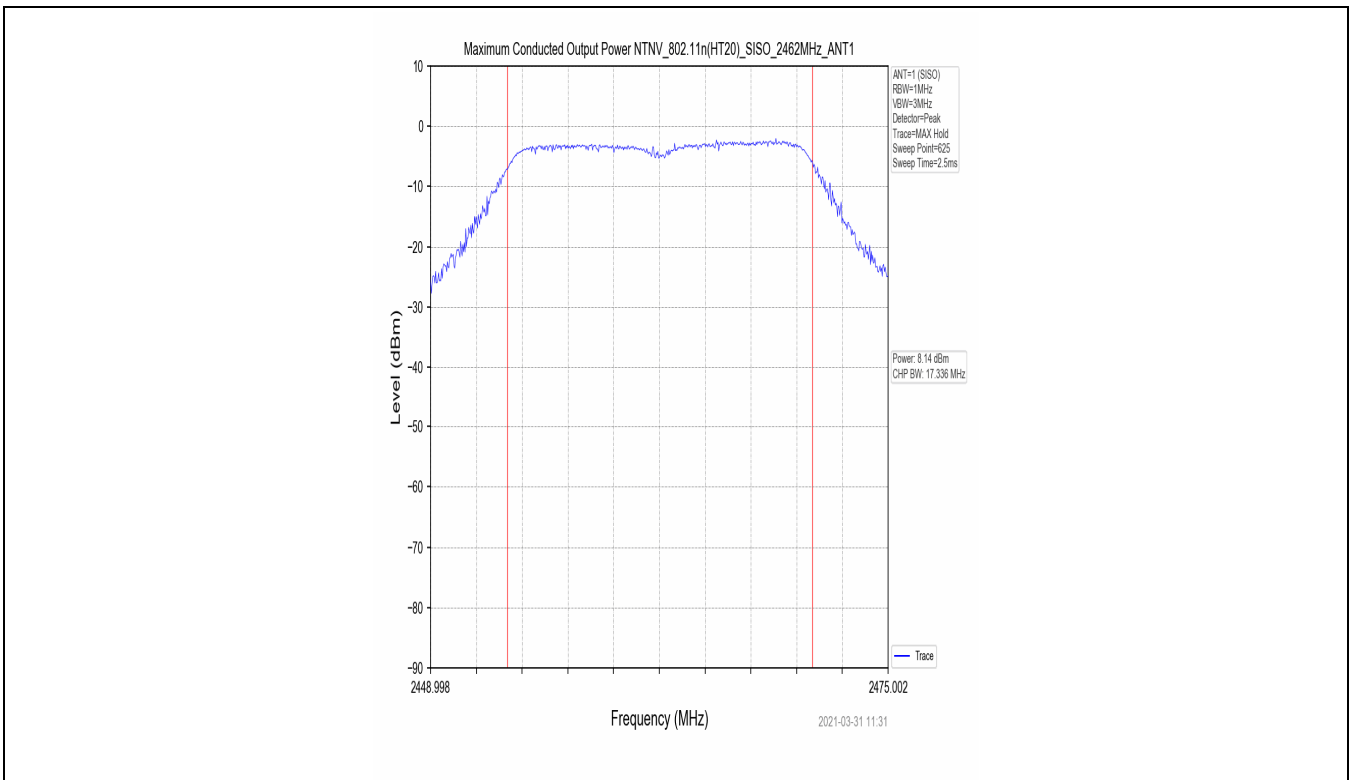
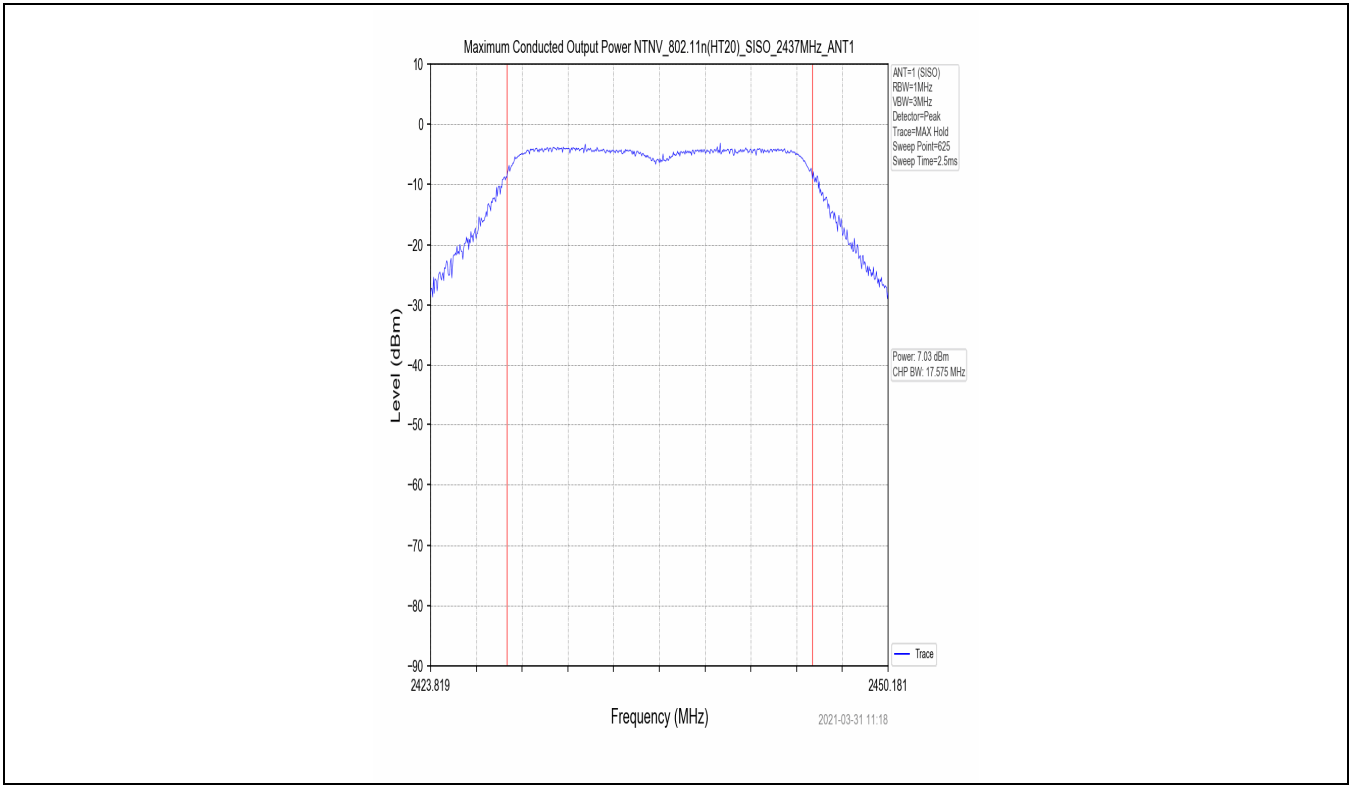
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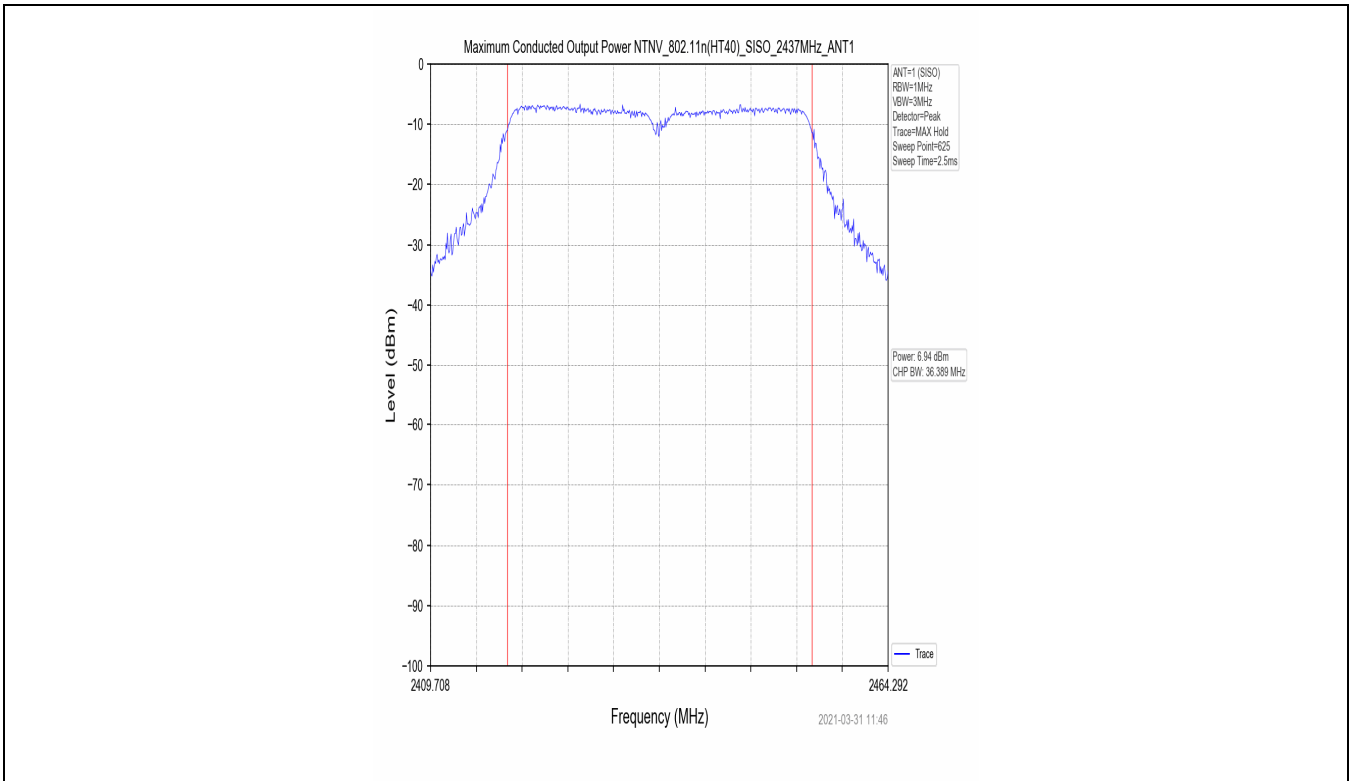
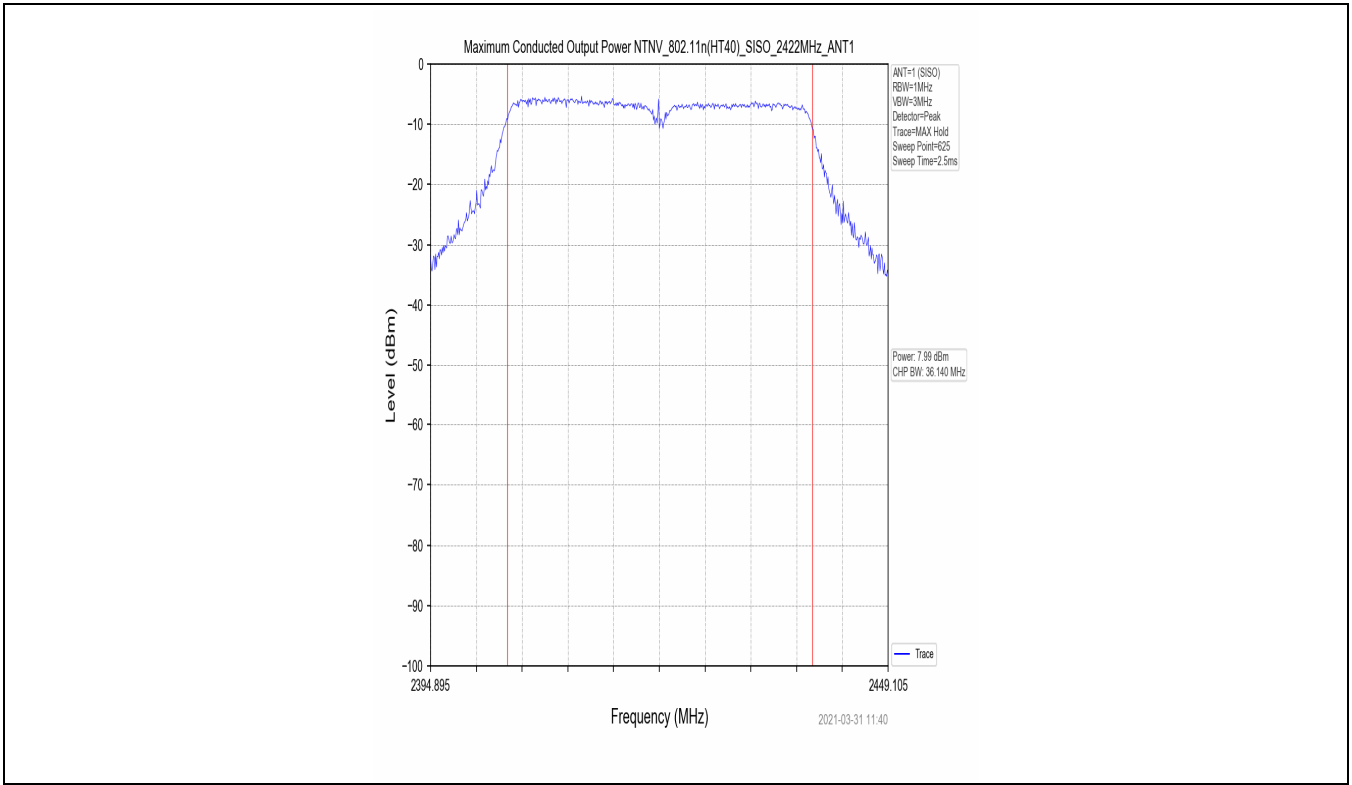
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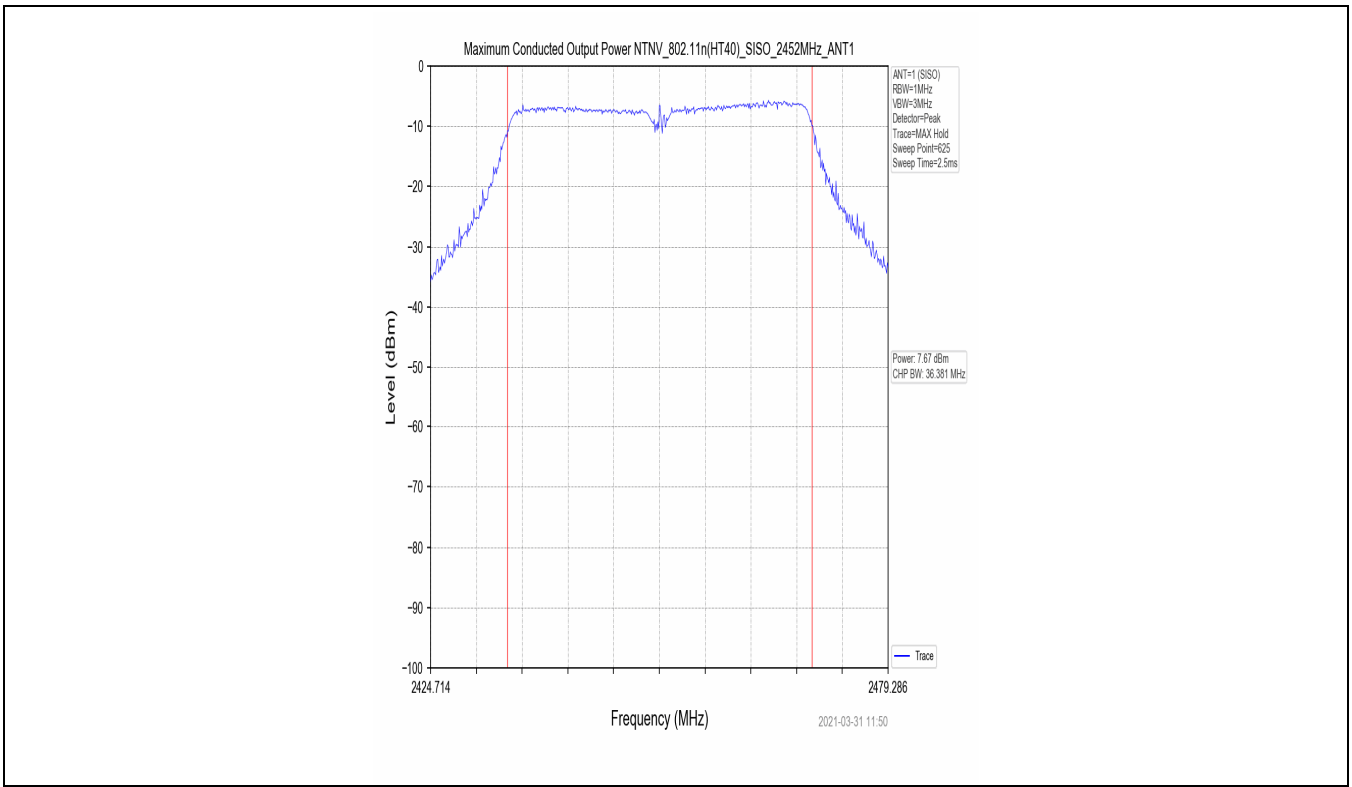
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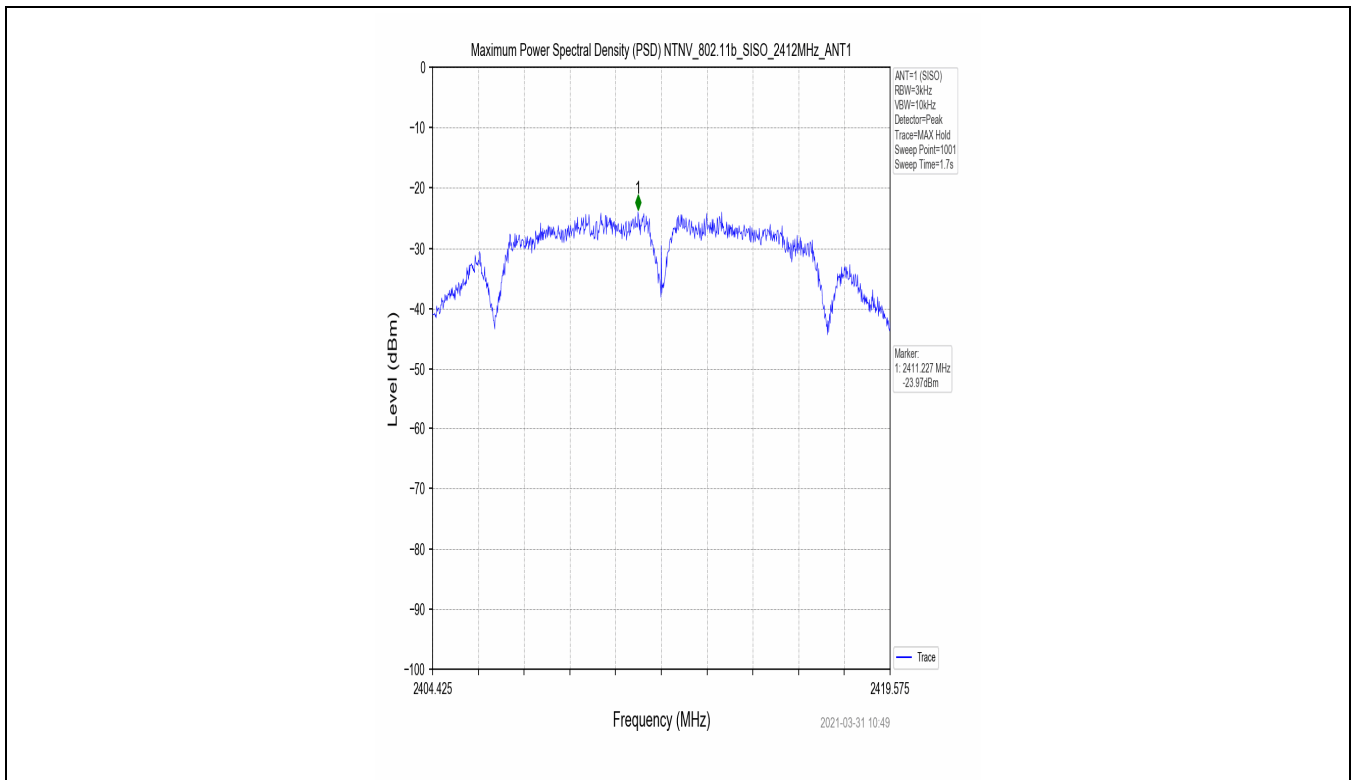
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## 4. Maximum Power Spectral Density (PSD)

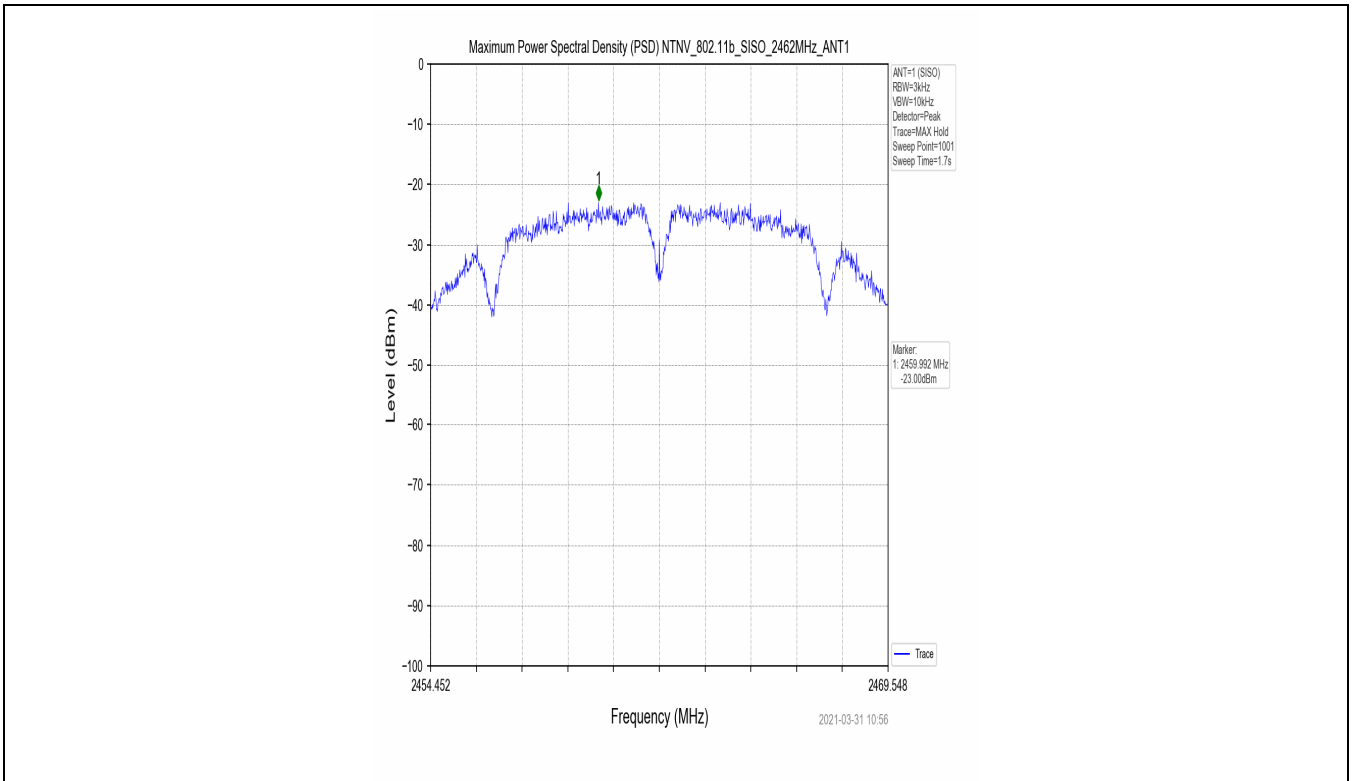
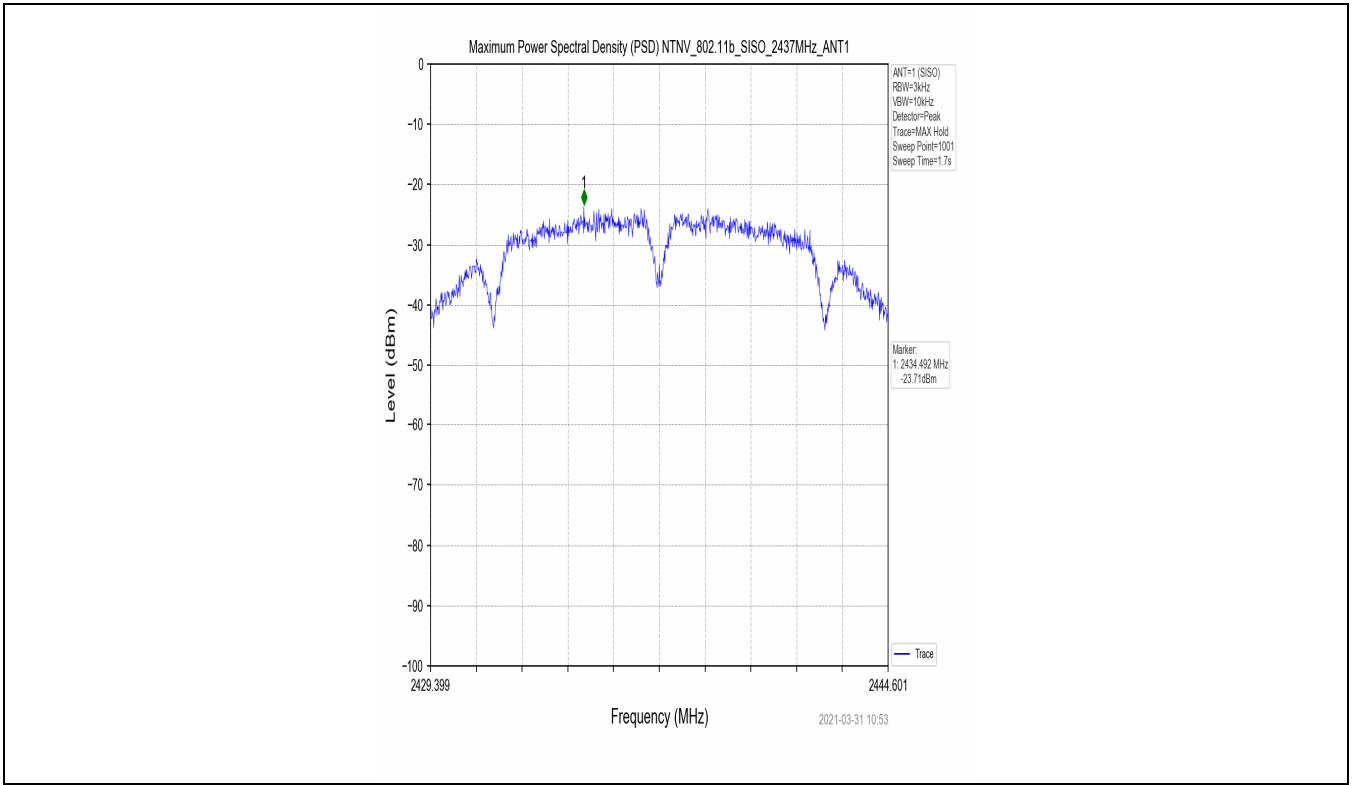
### 4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3kHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-23.97	≤8	PASS
	2437	SISO	-23.71	≤8	PASS
	2462	SISO	-23.00	≤8	PASS
802.11g	2412	SISO	-25.02	≤8	PASS
	2437	SISO	-25.73	≤8	PASS
	2462	SISO	-24.85	≤8	PASS
802.11n(HT20)	2412	SISO	-26.13	≤8	PASS
	2437	SISO	-26.49	≤8	PASS
	2462	SISO	-25.58	≤8	PASS
802.11n(HT40)	2422	SISO	-27.81	≤8	PASS
	2437	SISO	-29.43	≤8	PASS
	2452	SISO	-27.17	≤8	PASS

### 4.2 Test Graph

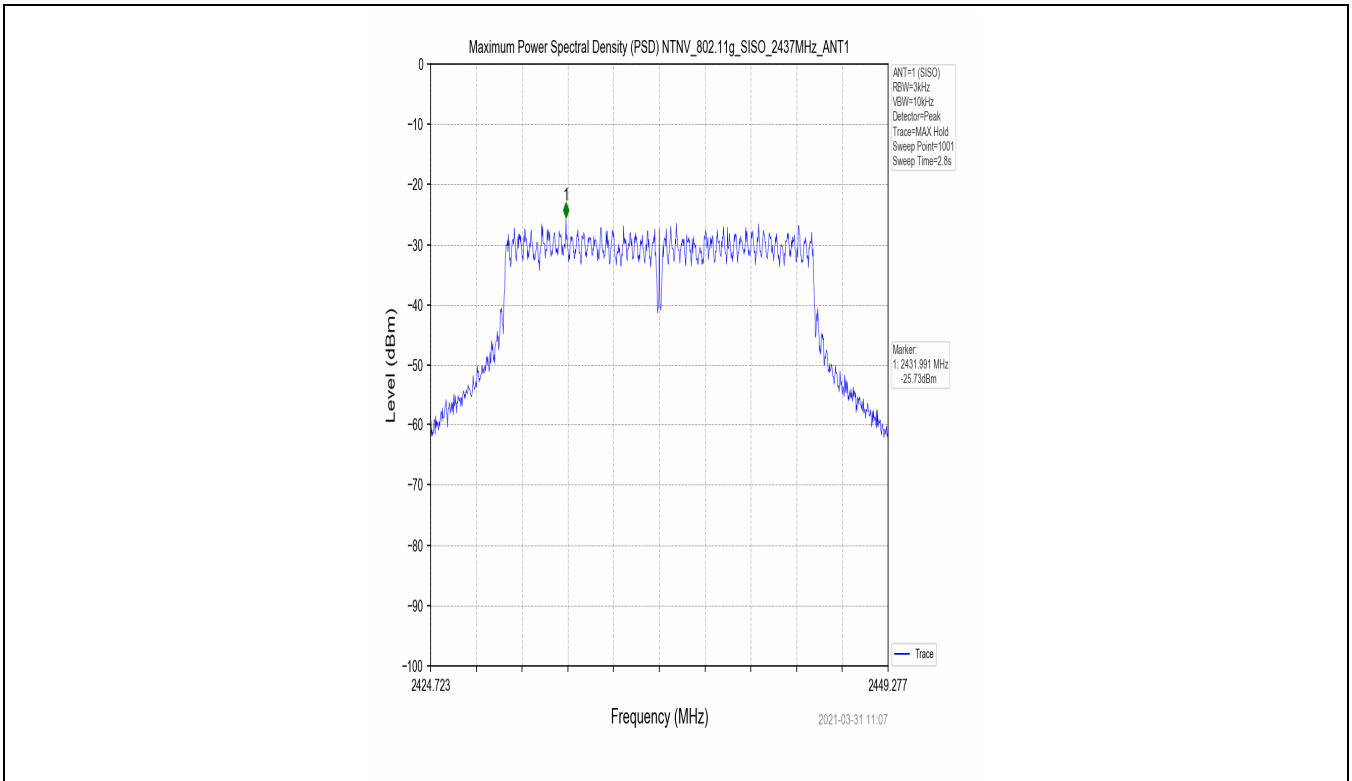
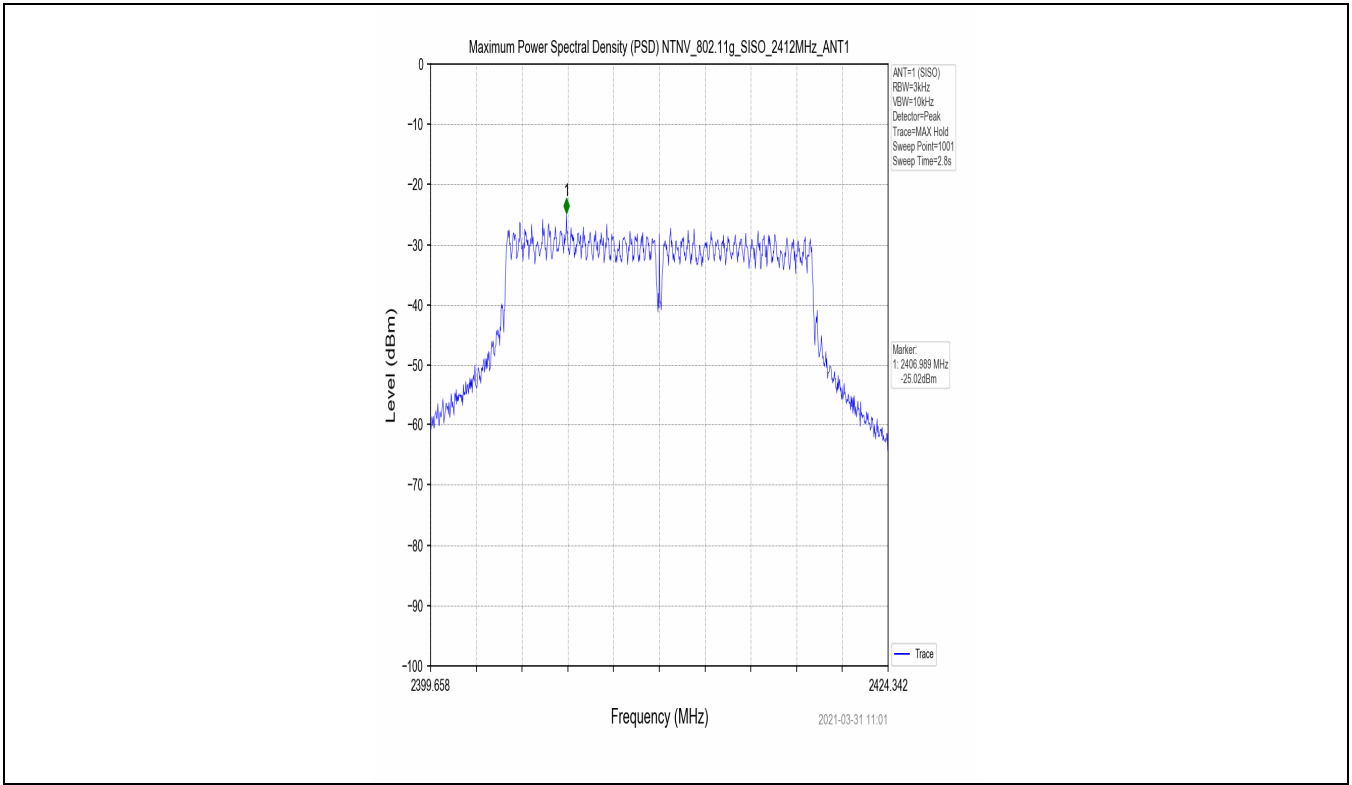


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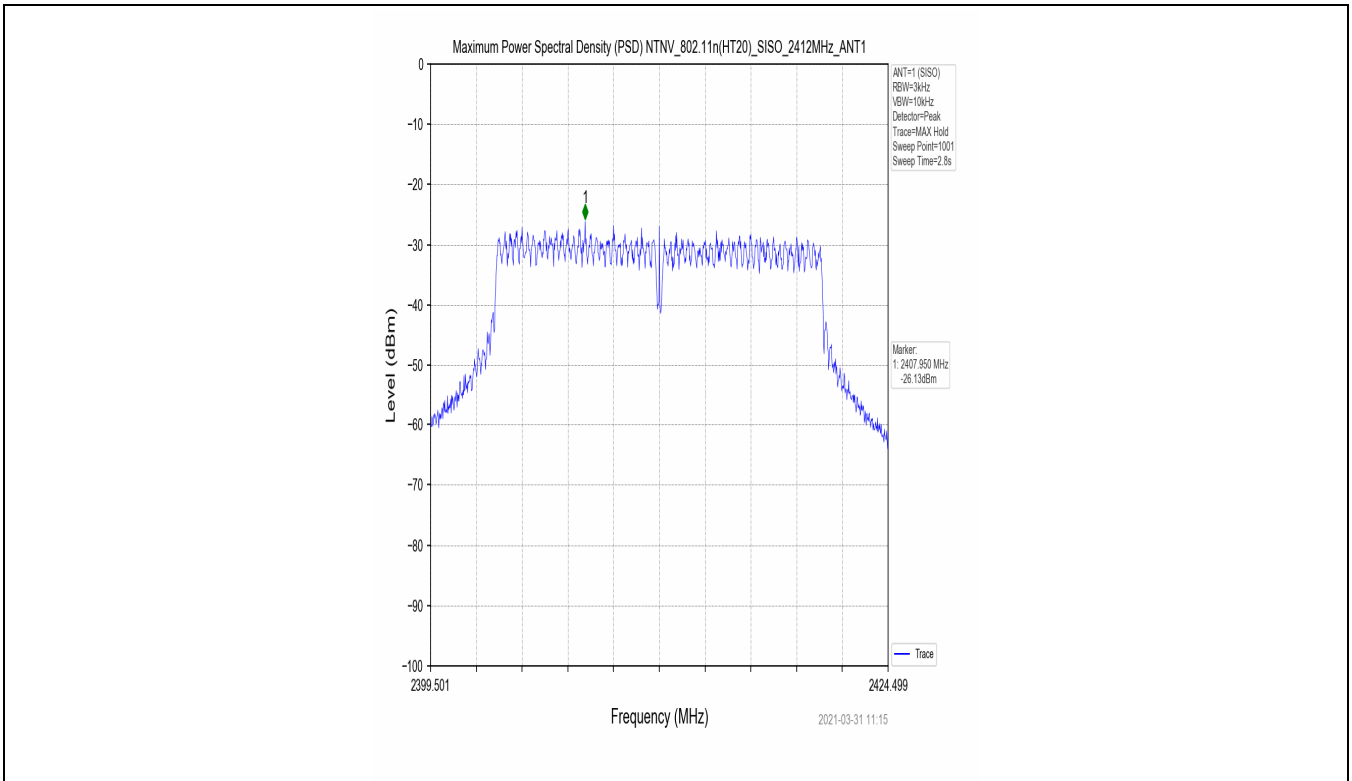
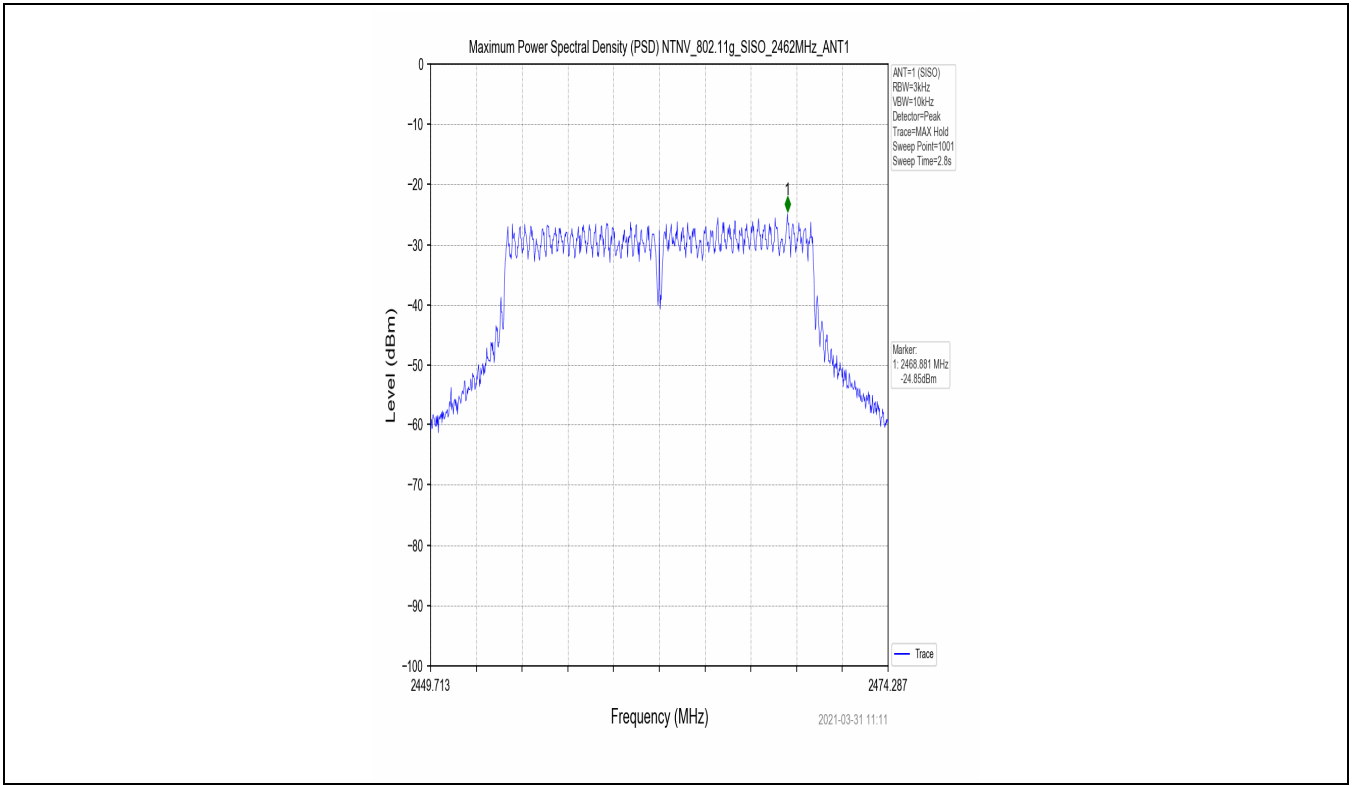
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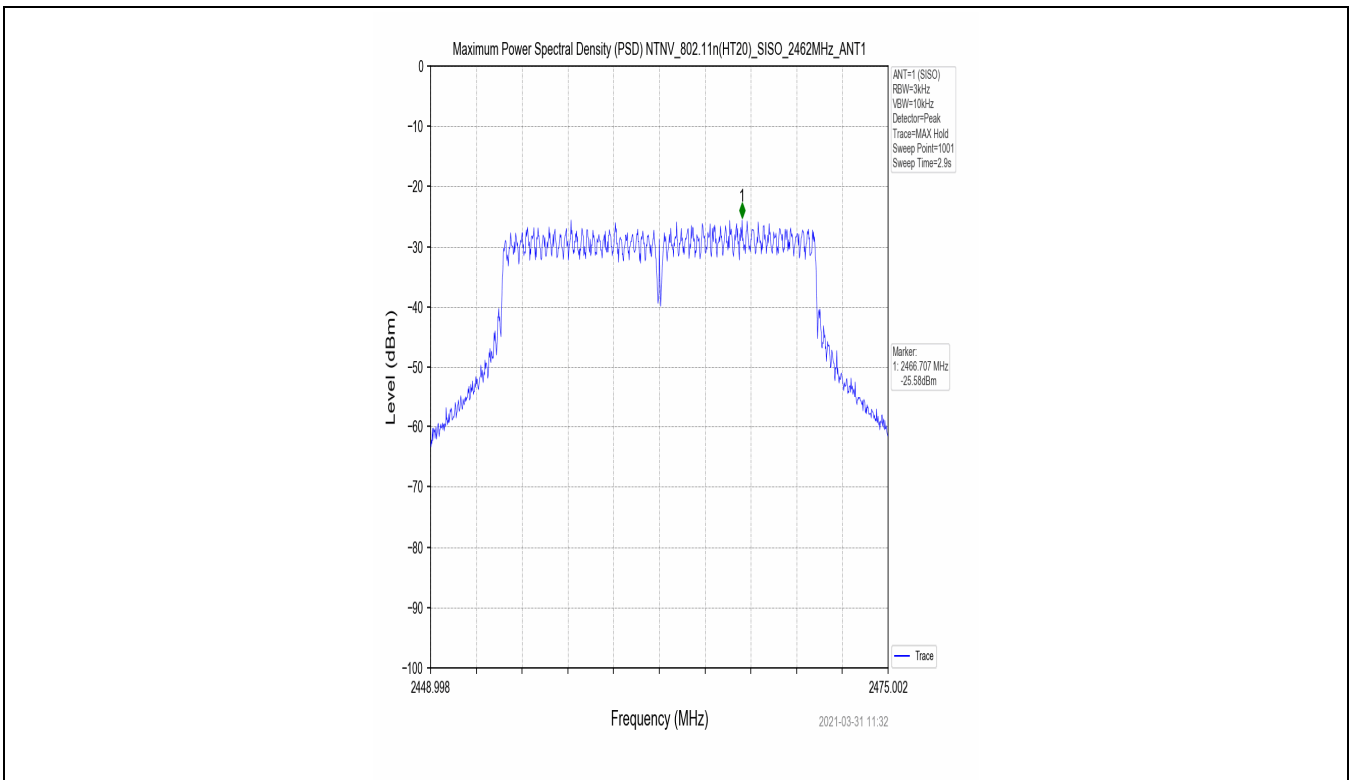
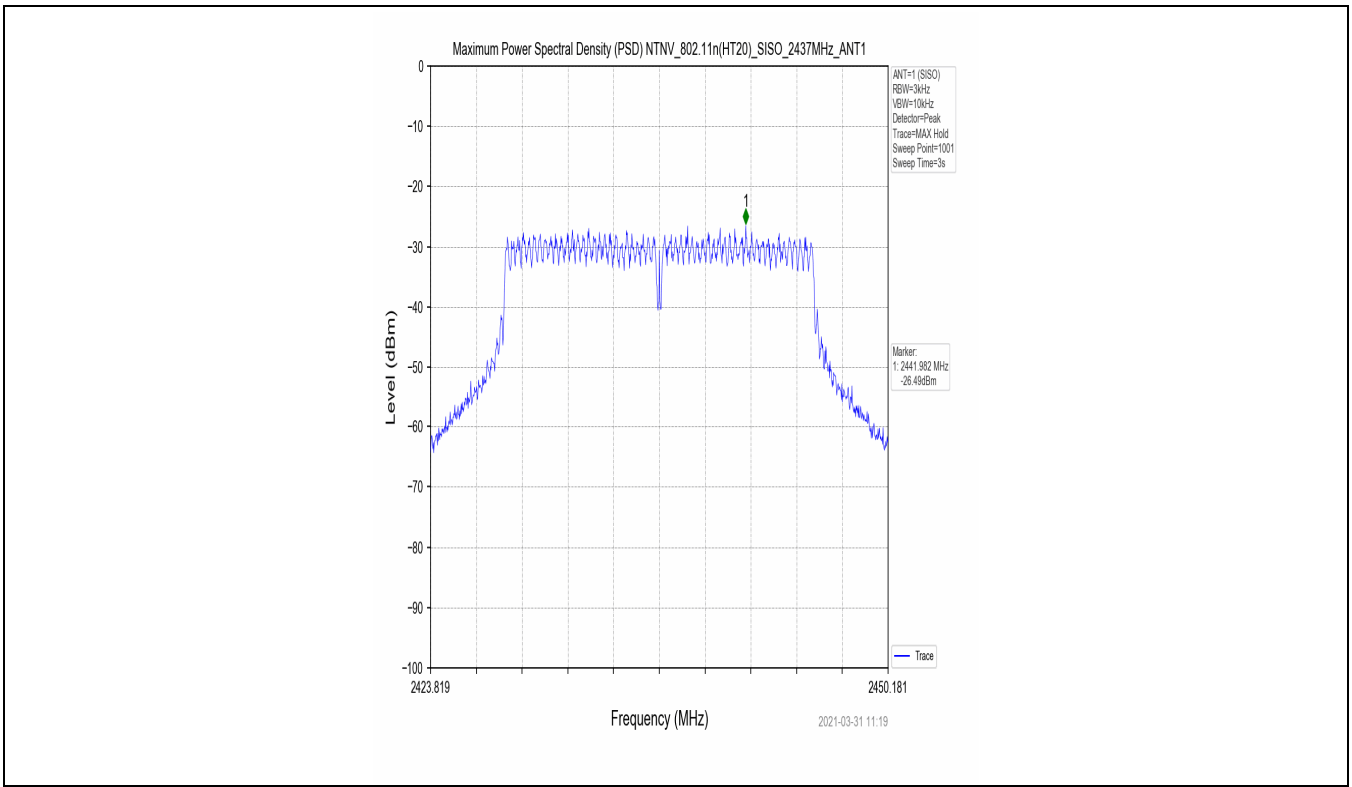
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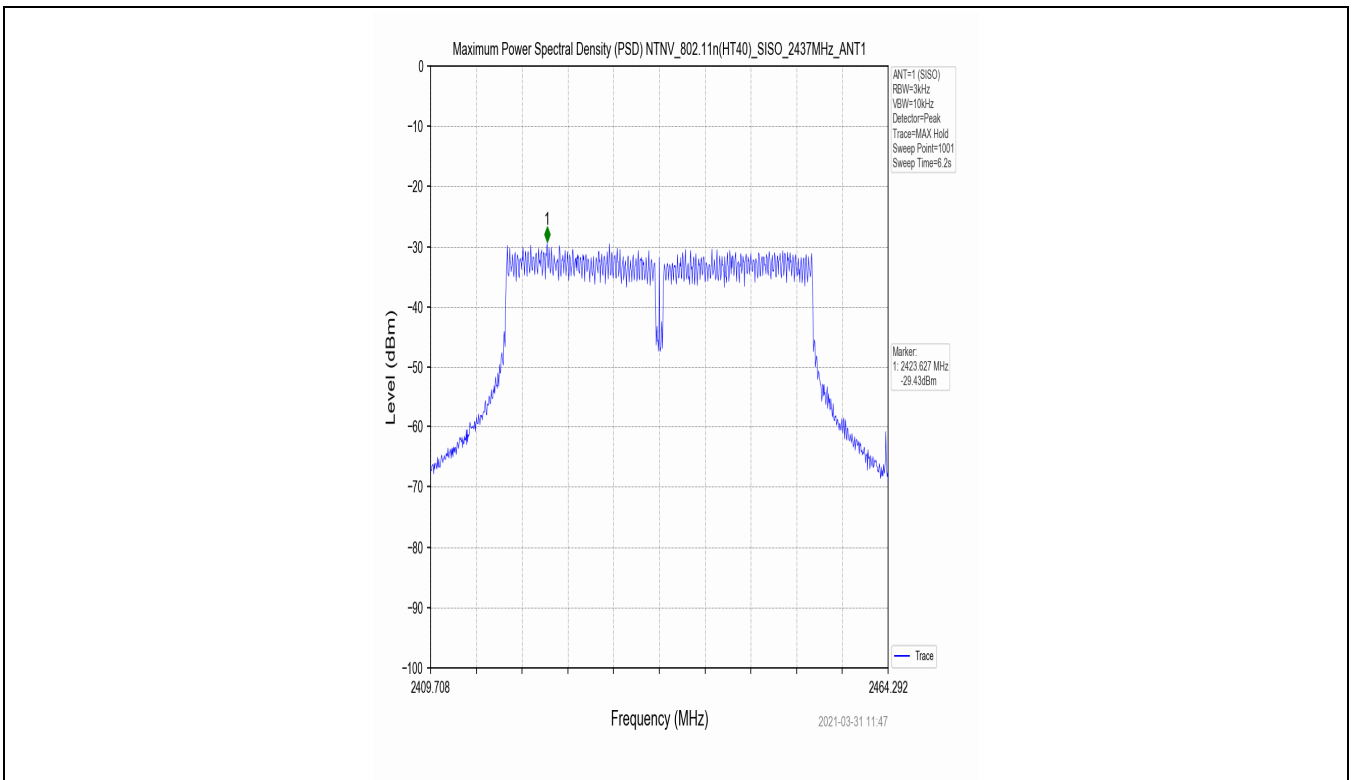
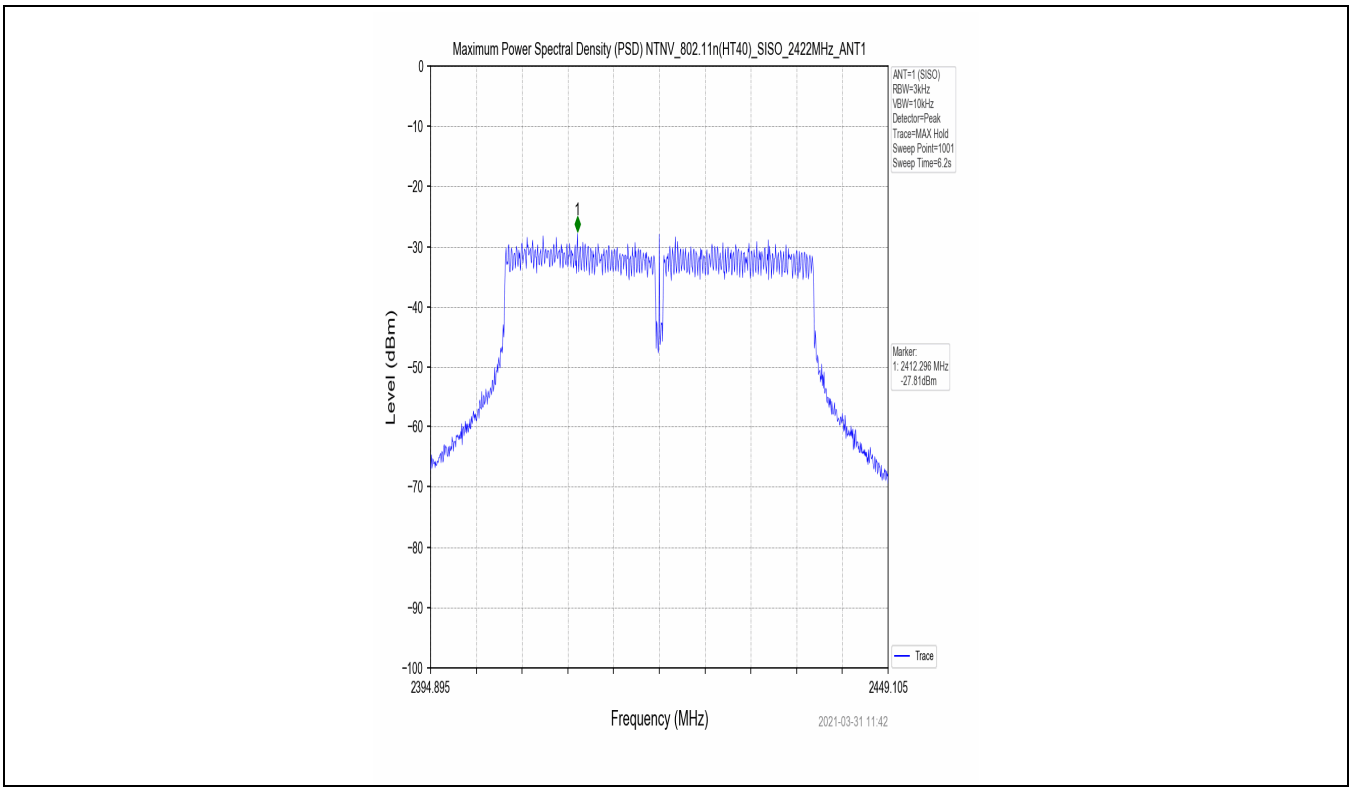
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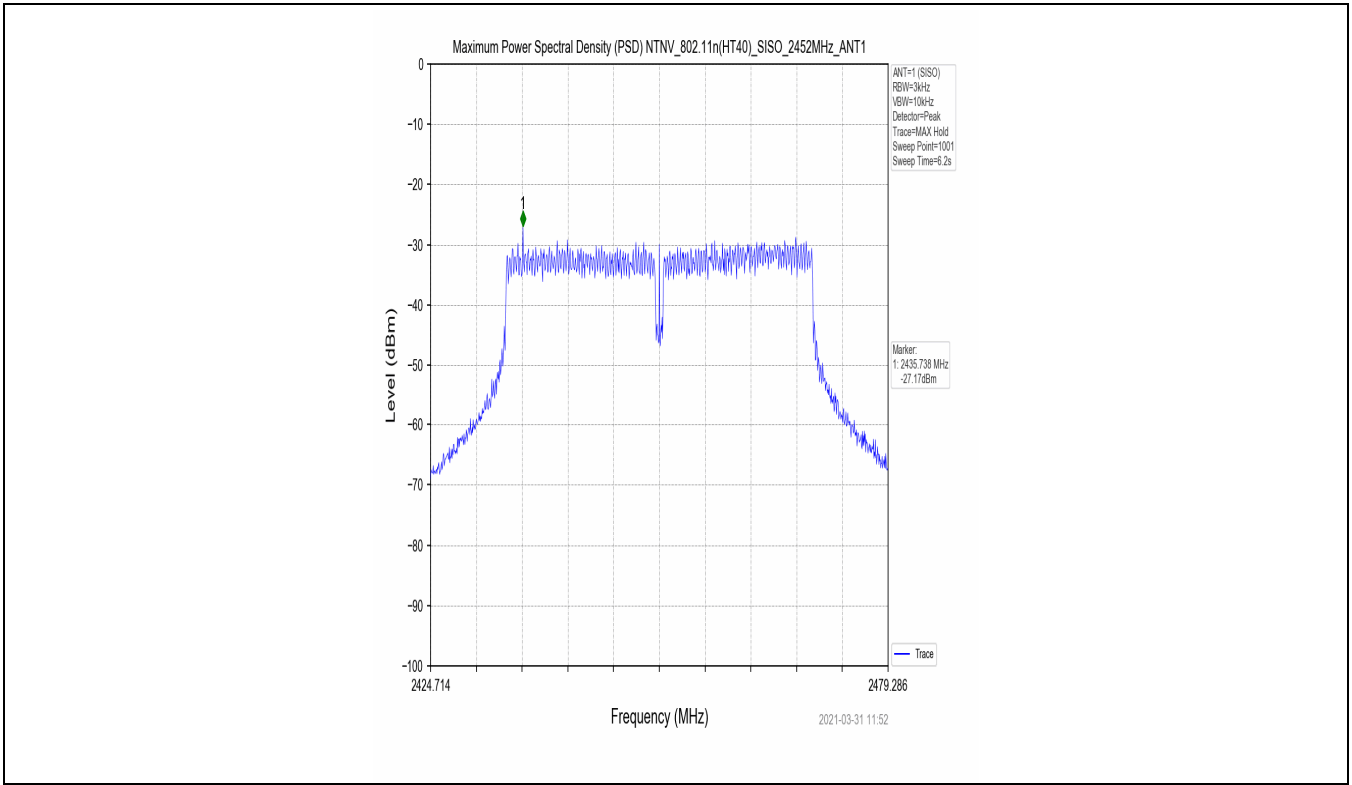
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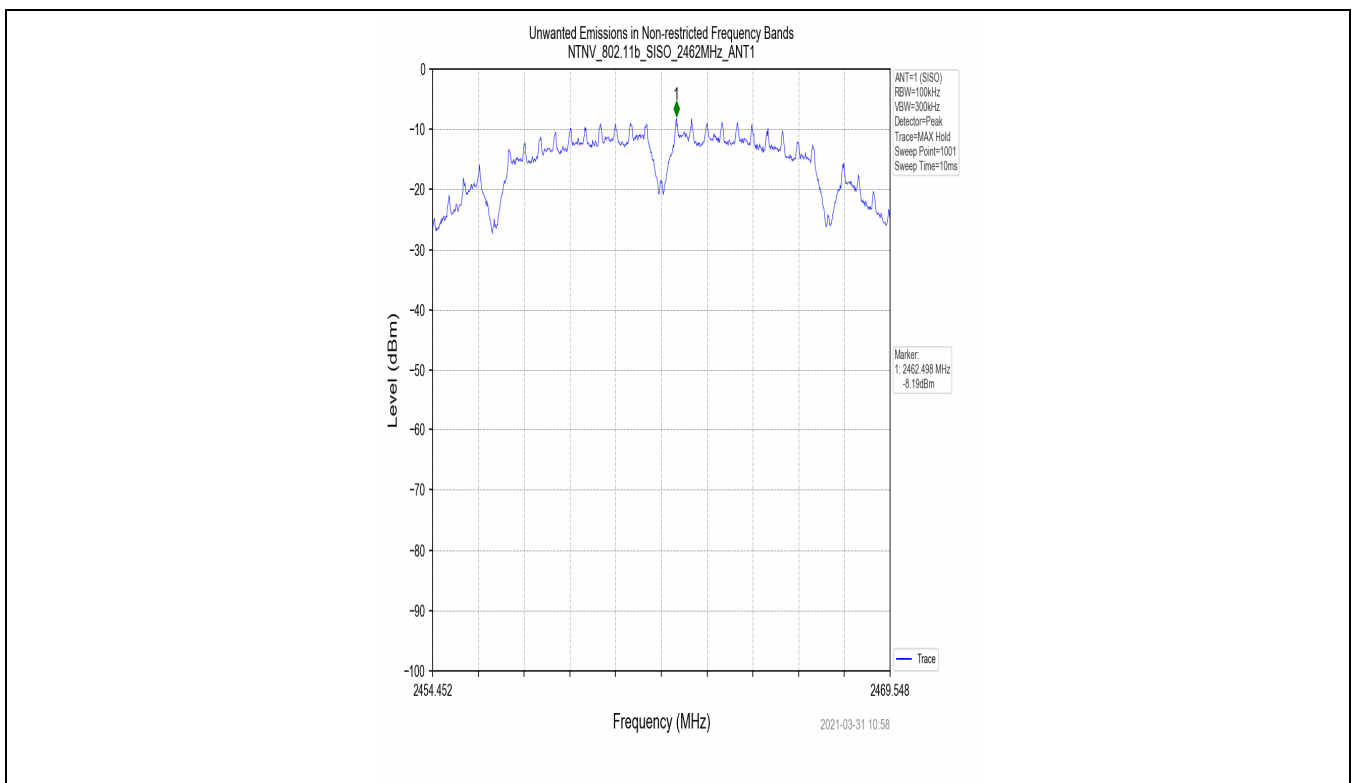
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## 5. Unwanted Emissions in Non-restricted Frequency Bands

### 5.1 Test Result

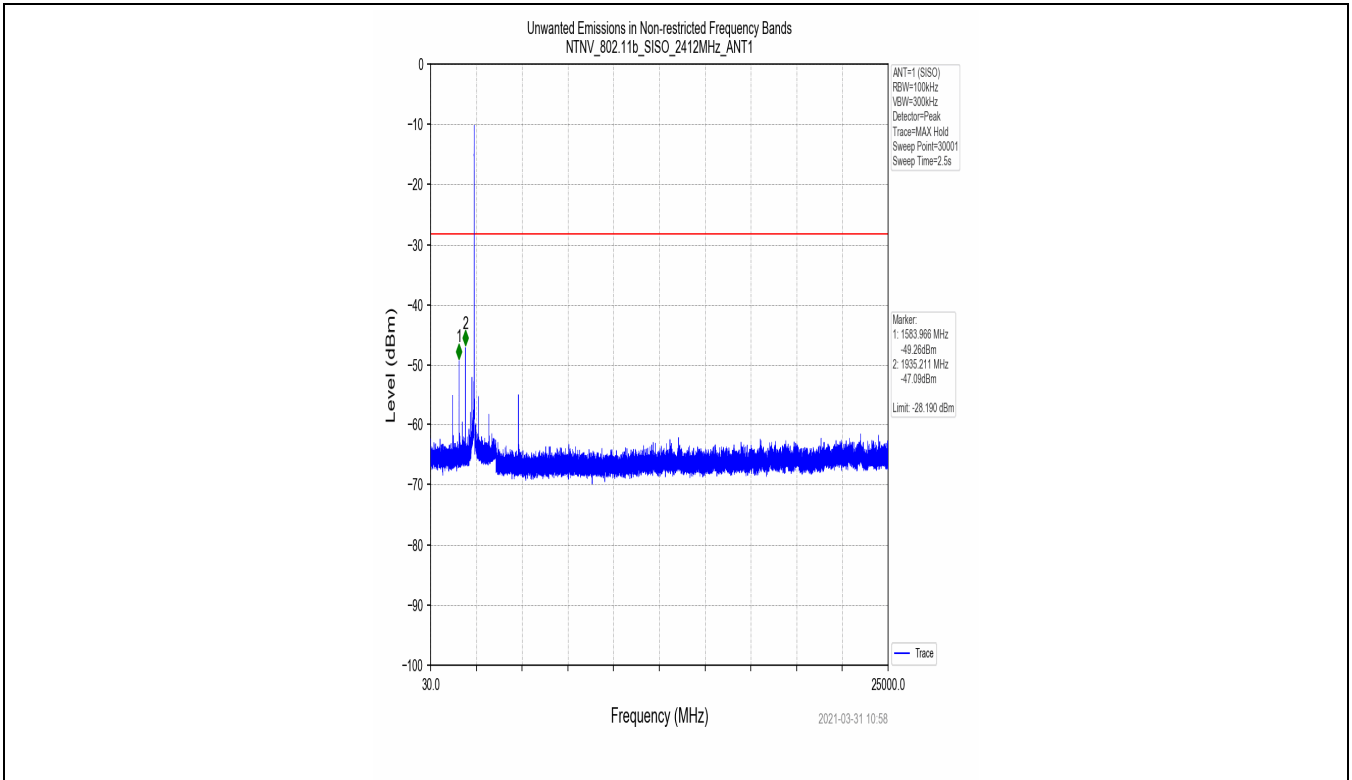
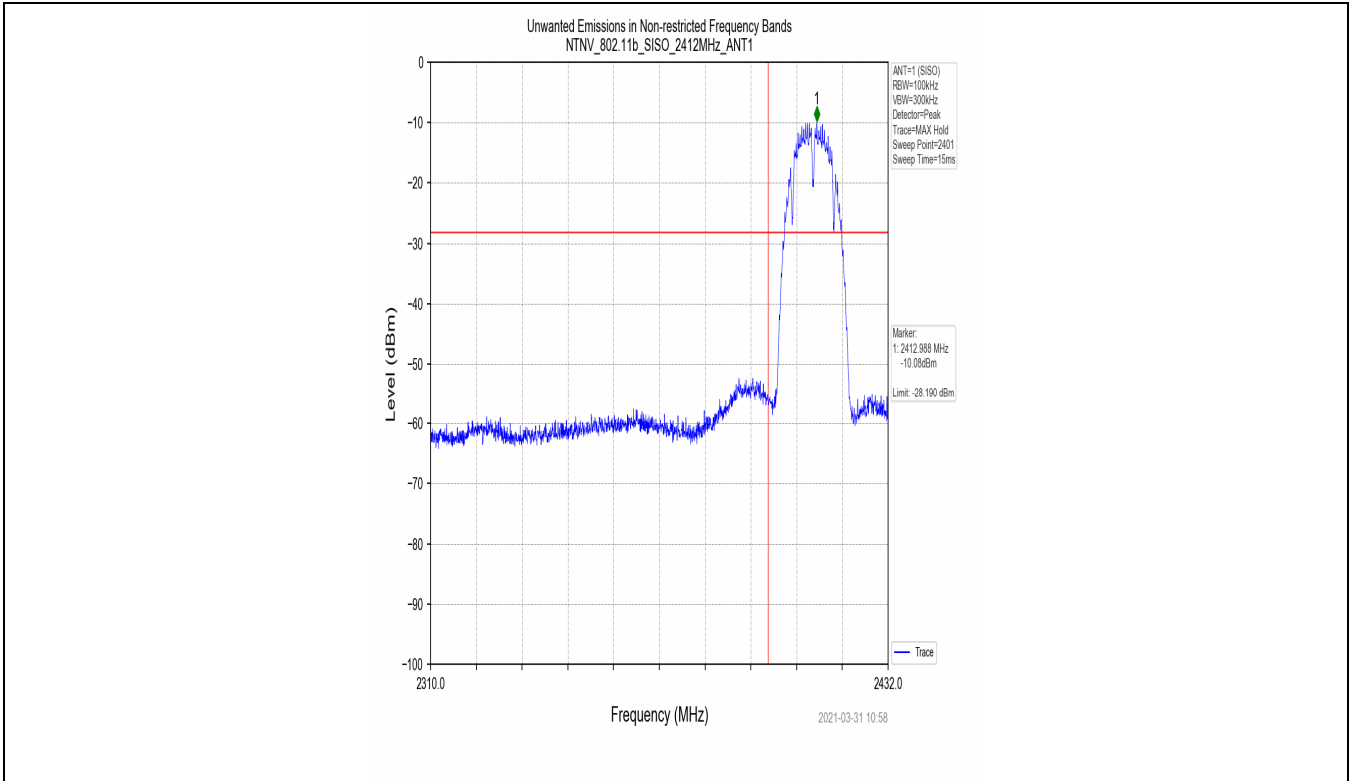
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-28.19	PASS
	2437	SISO	1	Refer to test graph	-28.19	PASS
	2462	SISO	1	Refer to test graph	-28.19	PASS
802.11g	2412	SISO	1	Refer to test graph	-31.28	PASS
	2437	SISO	1	Refer to test graph	-31.28	PASS
	2462	SISO	1	Refer to test graph	-31.28	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-31.06	PASS
	2437	SISO	1	Refer to test graph	-31.06	PASS
	2462	SISO	1	Refer to test graph	-31.06	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-34.20	PASS
	2437	SISO	1	Refer to test graph	-34.20	PASS
	2452	SISO	1	Refer to test graph	-34.20	PASS

### 5.2 Test Graph

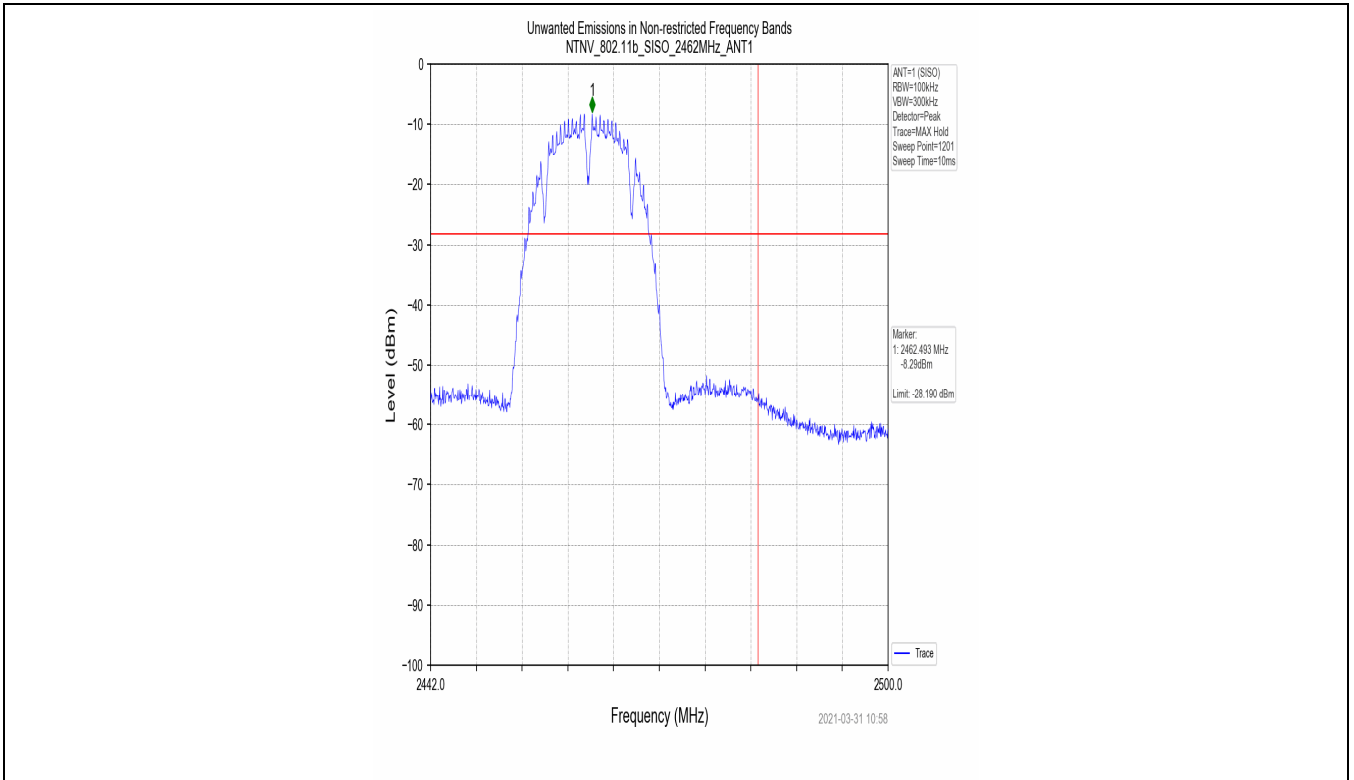
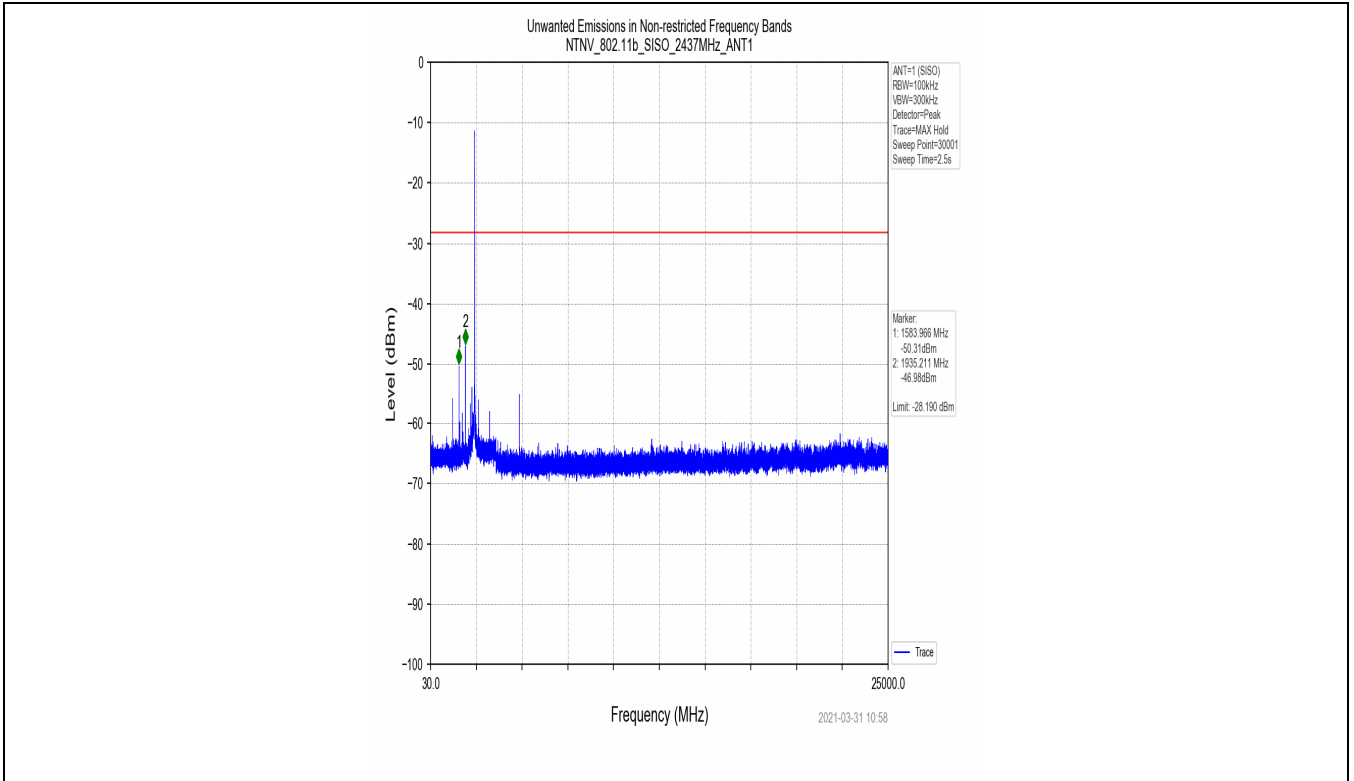


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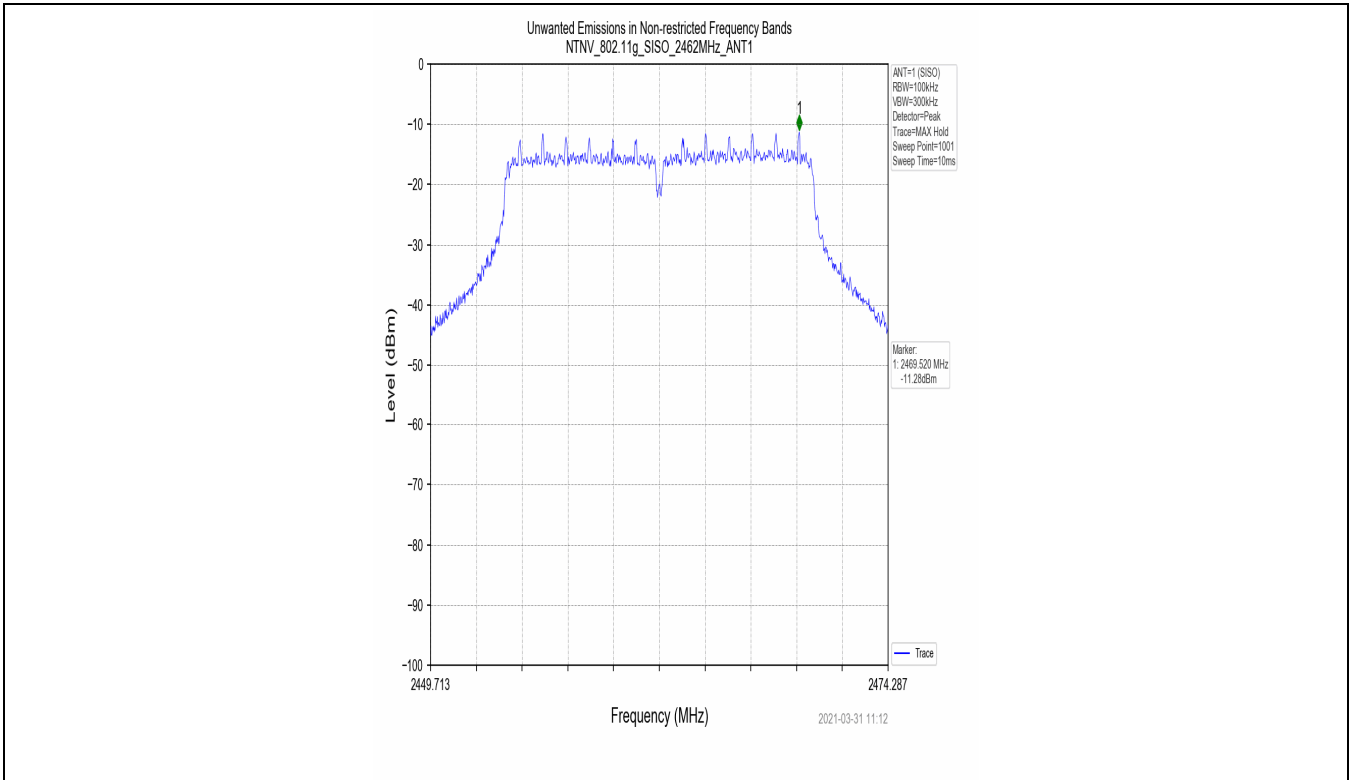
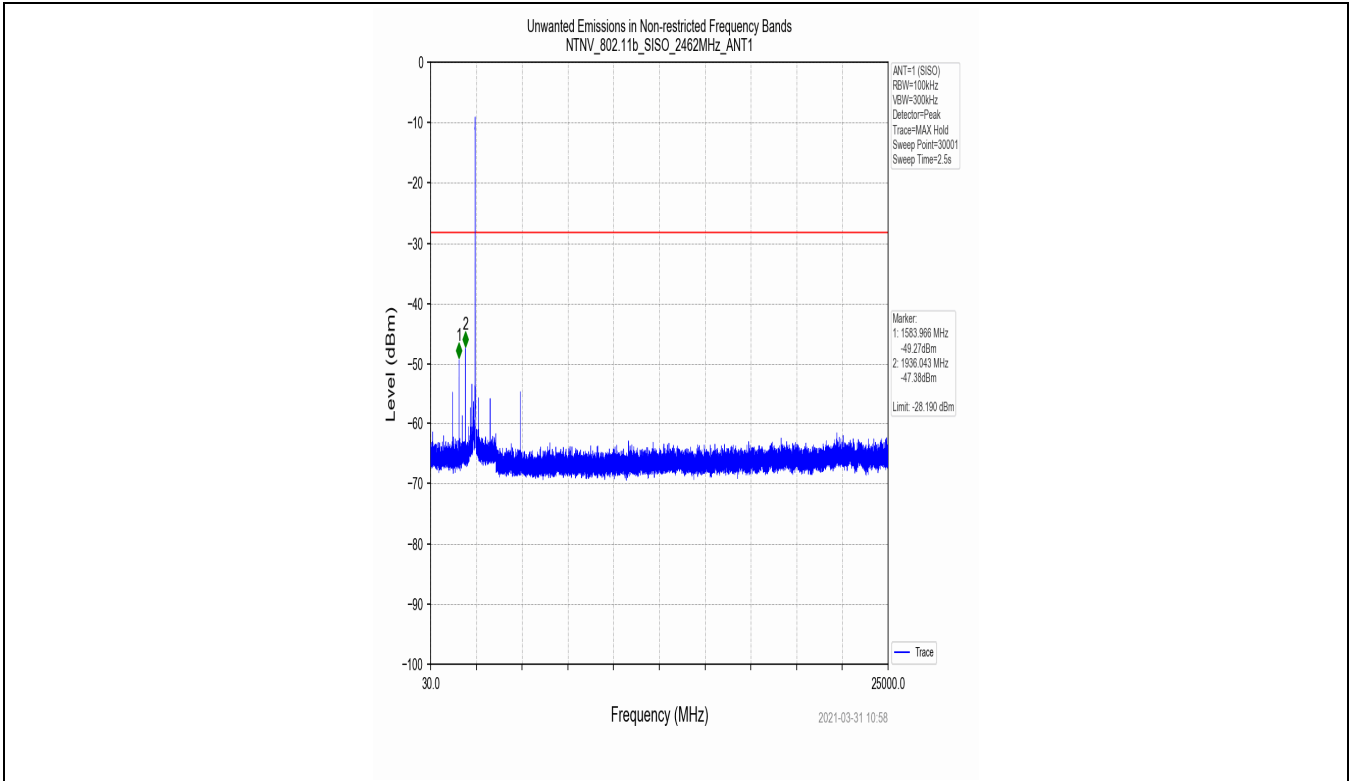


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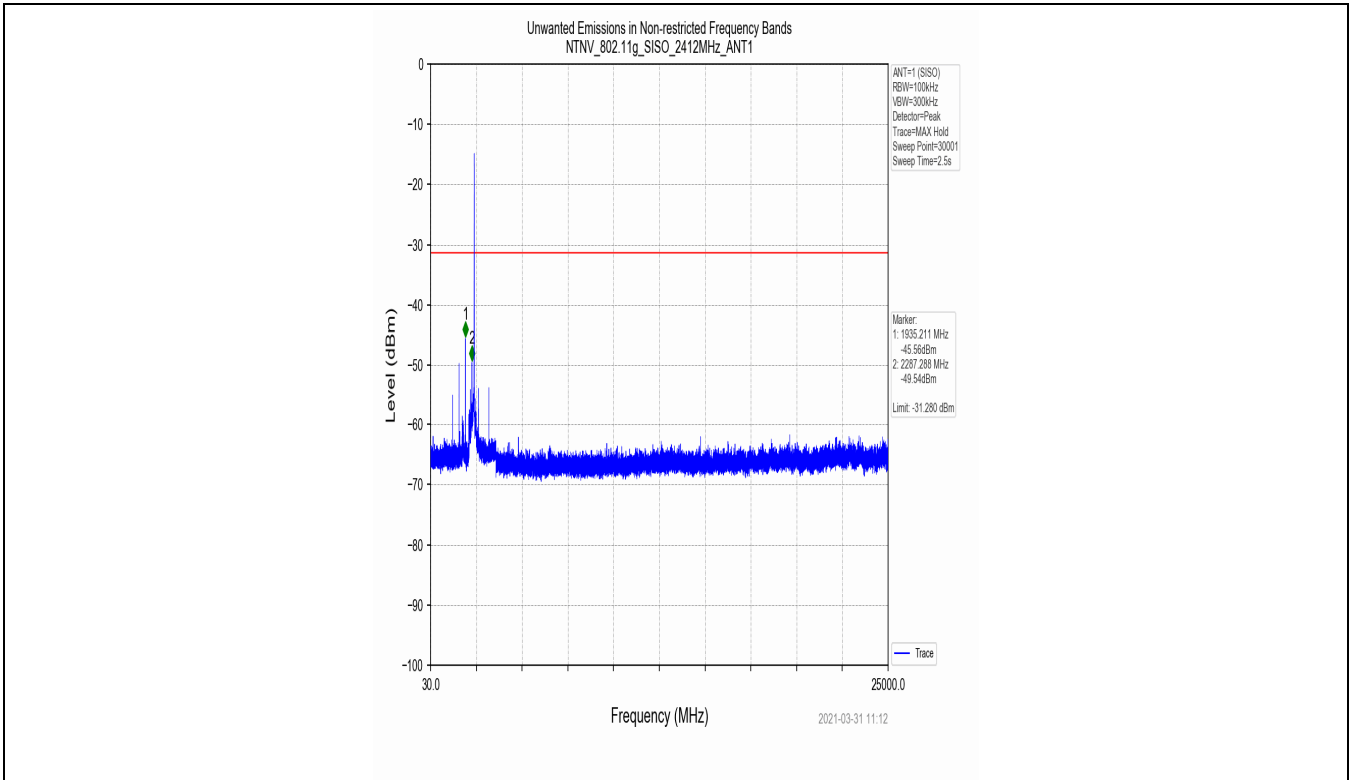
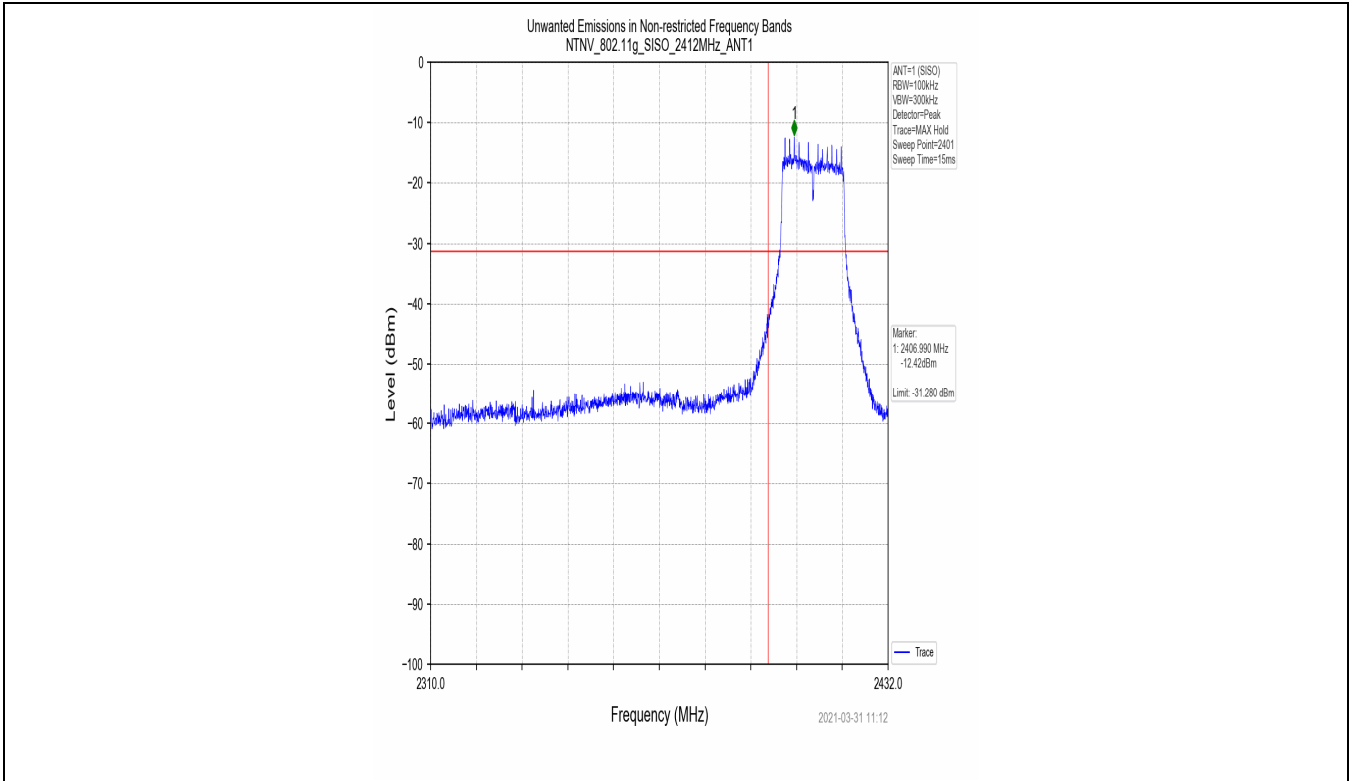
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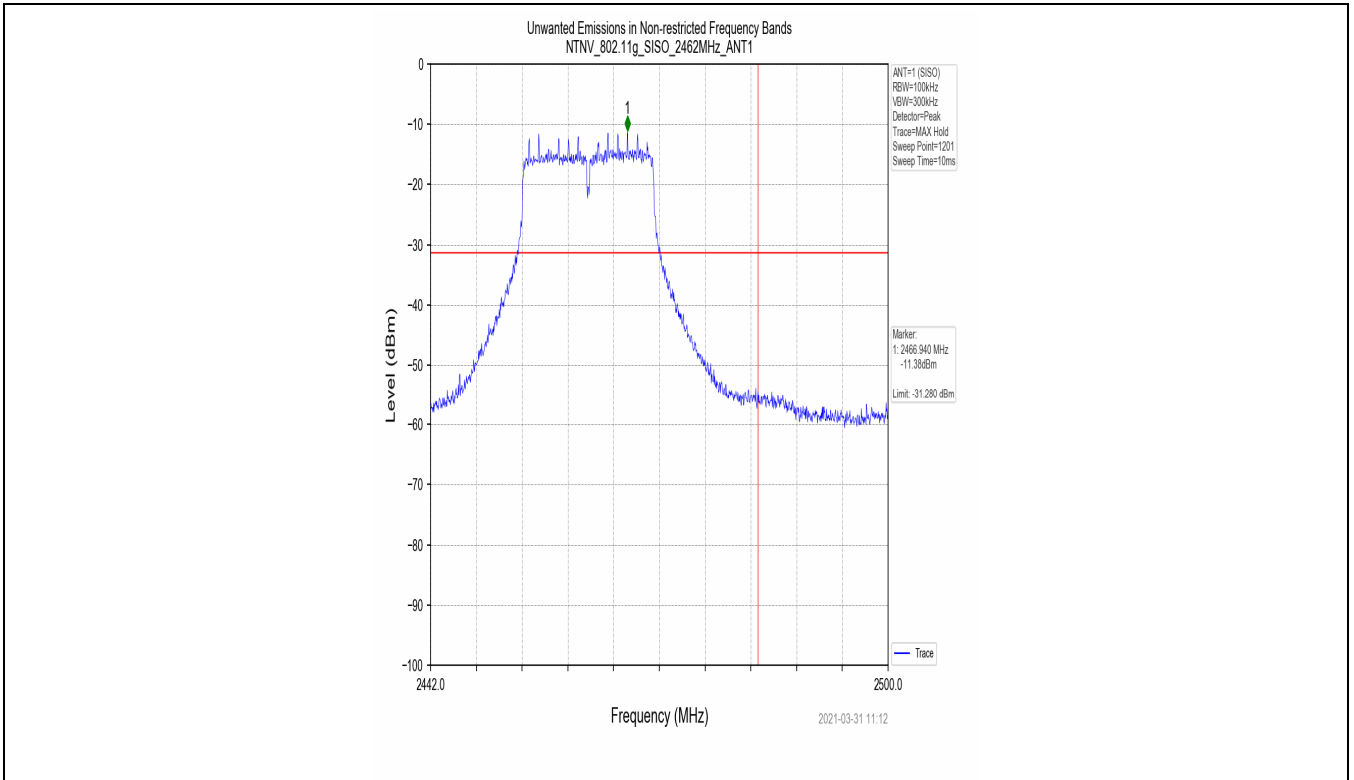
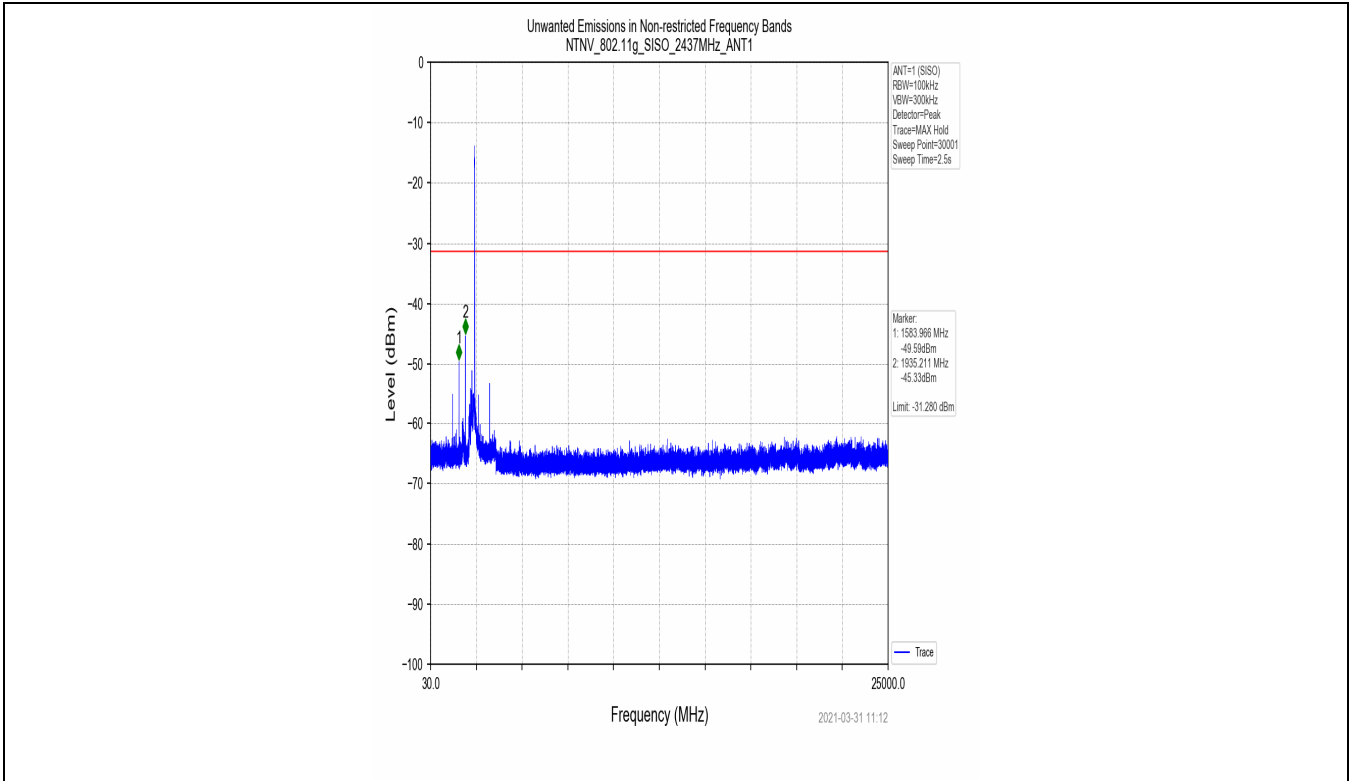


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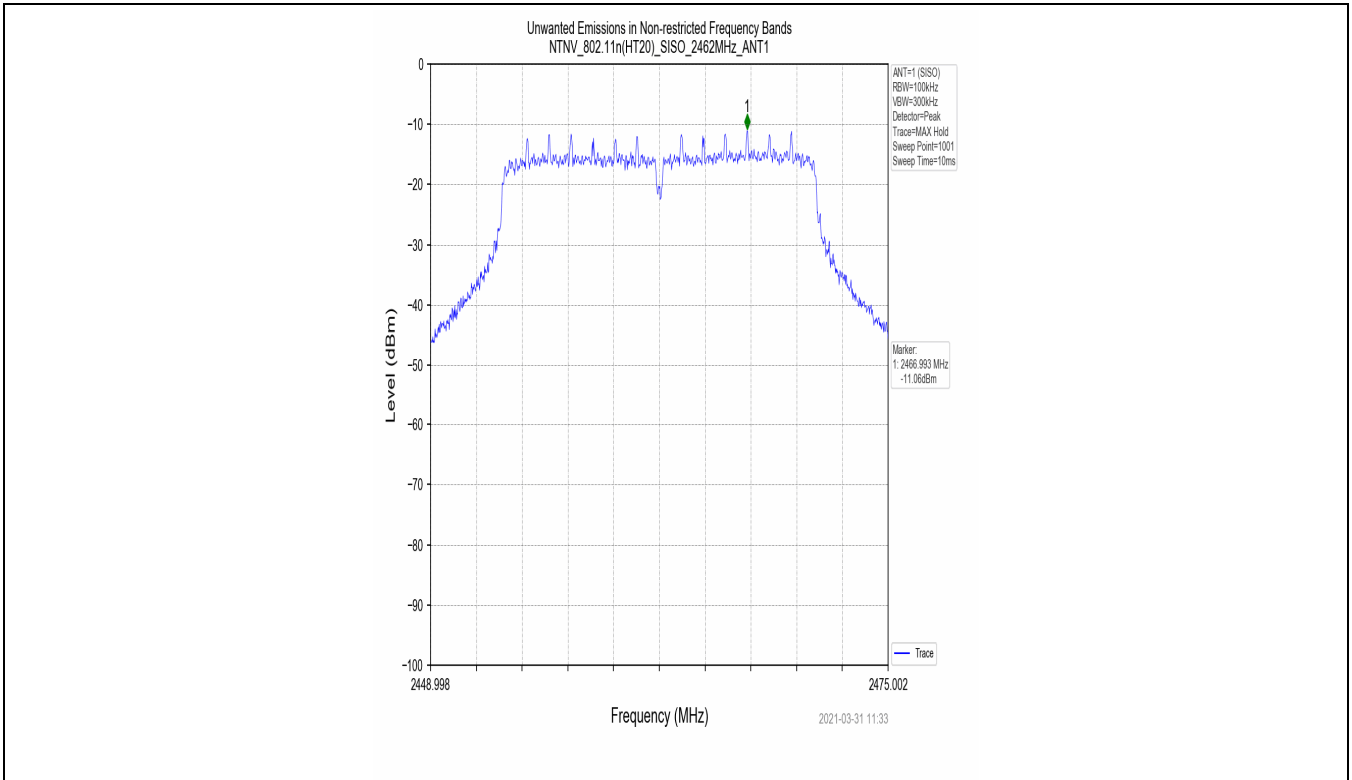
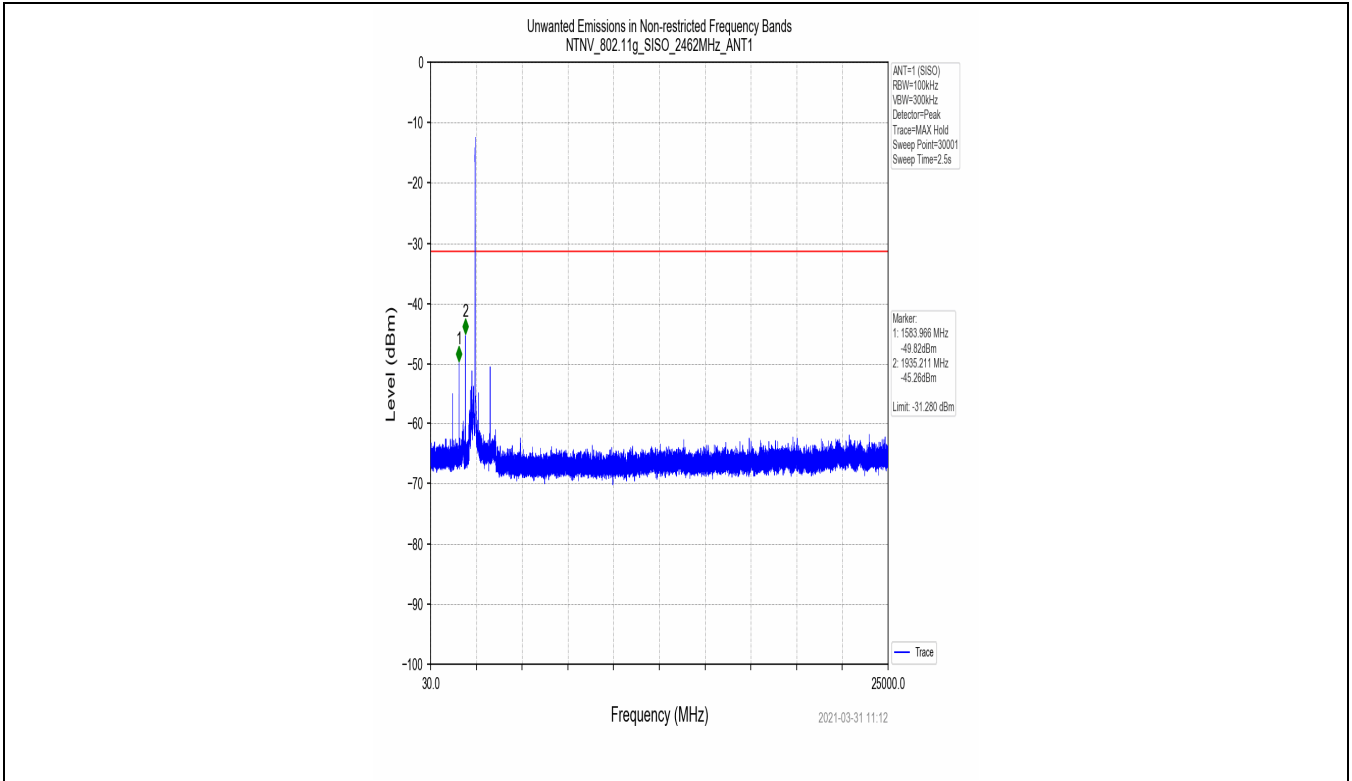
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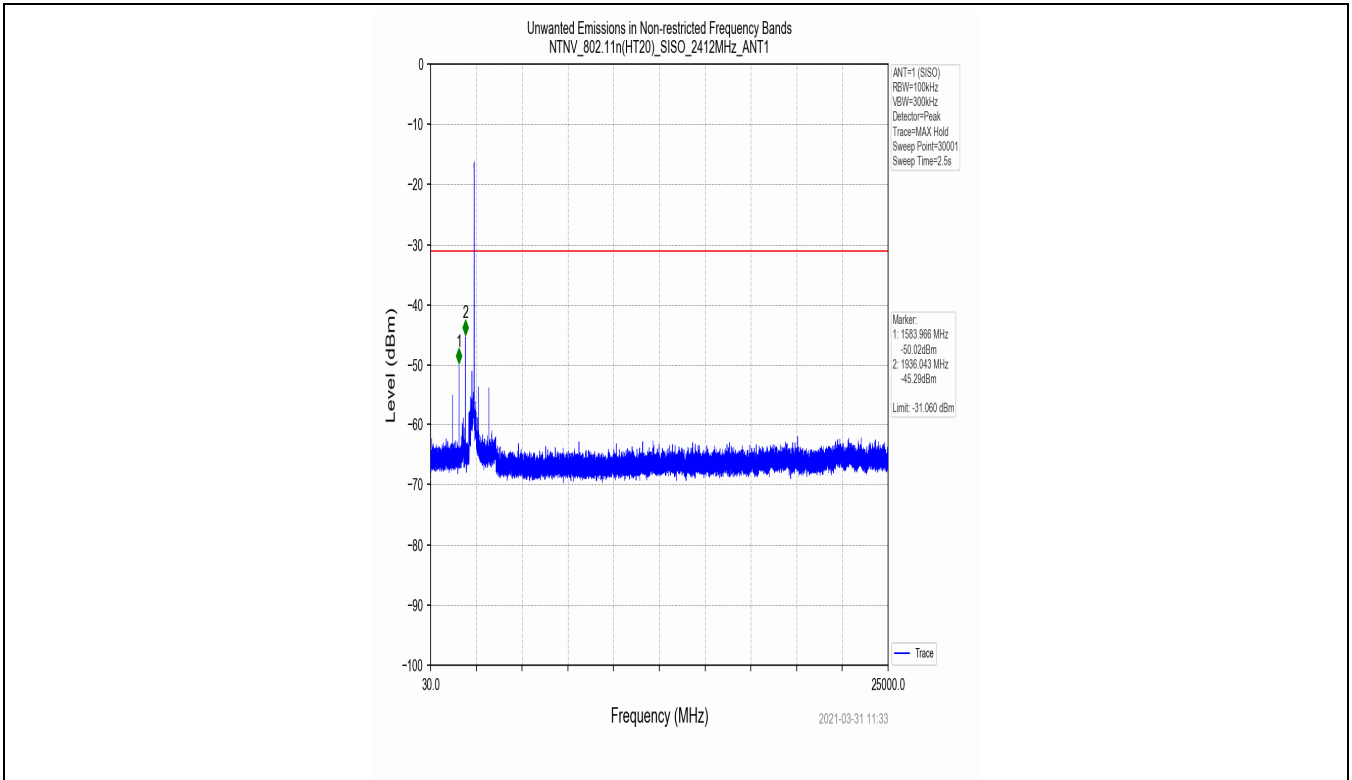
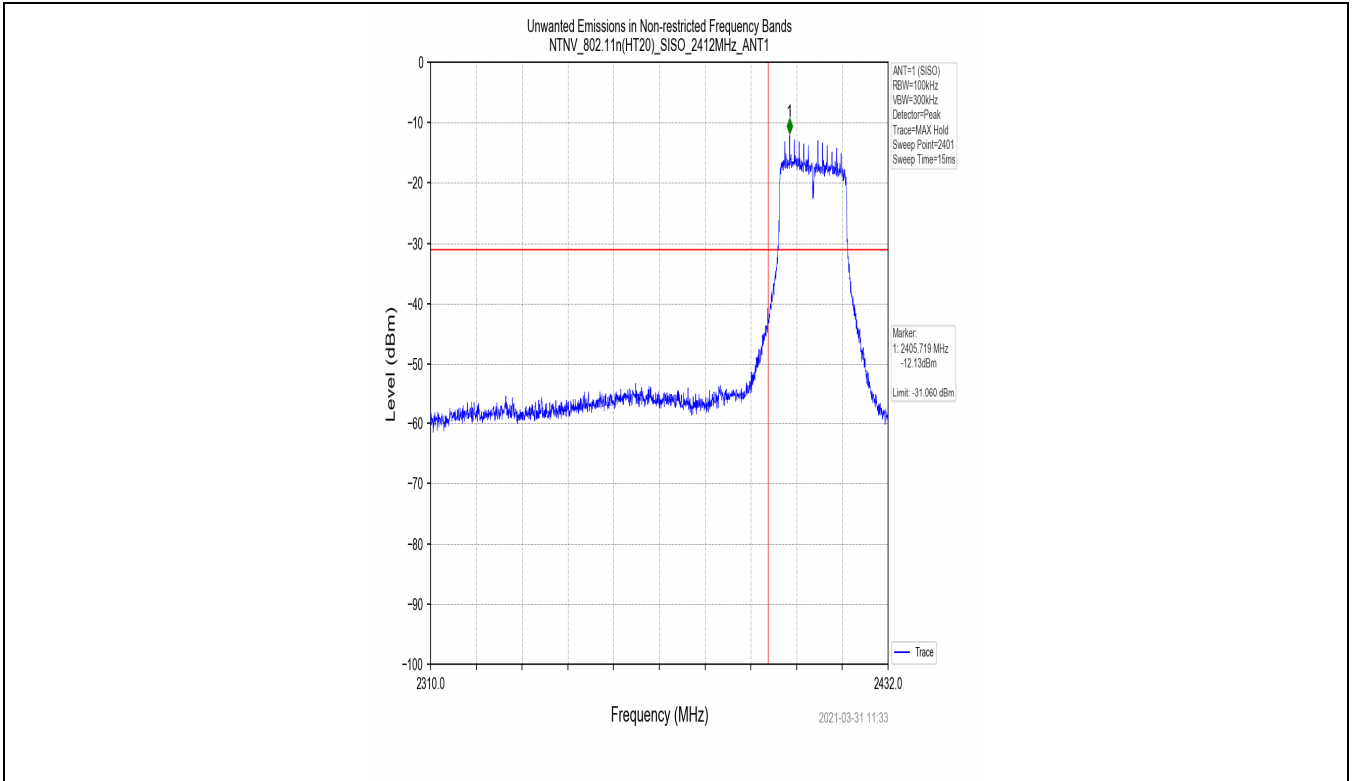
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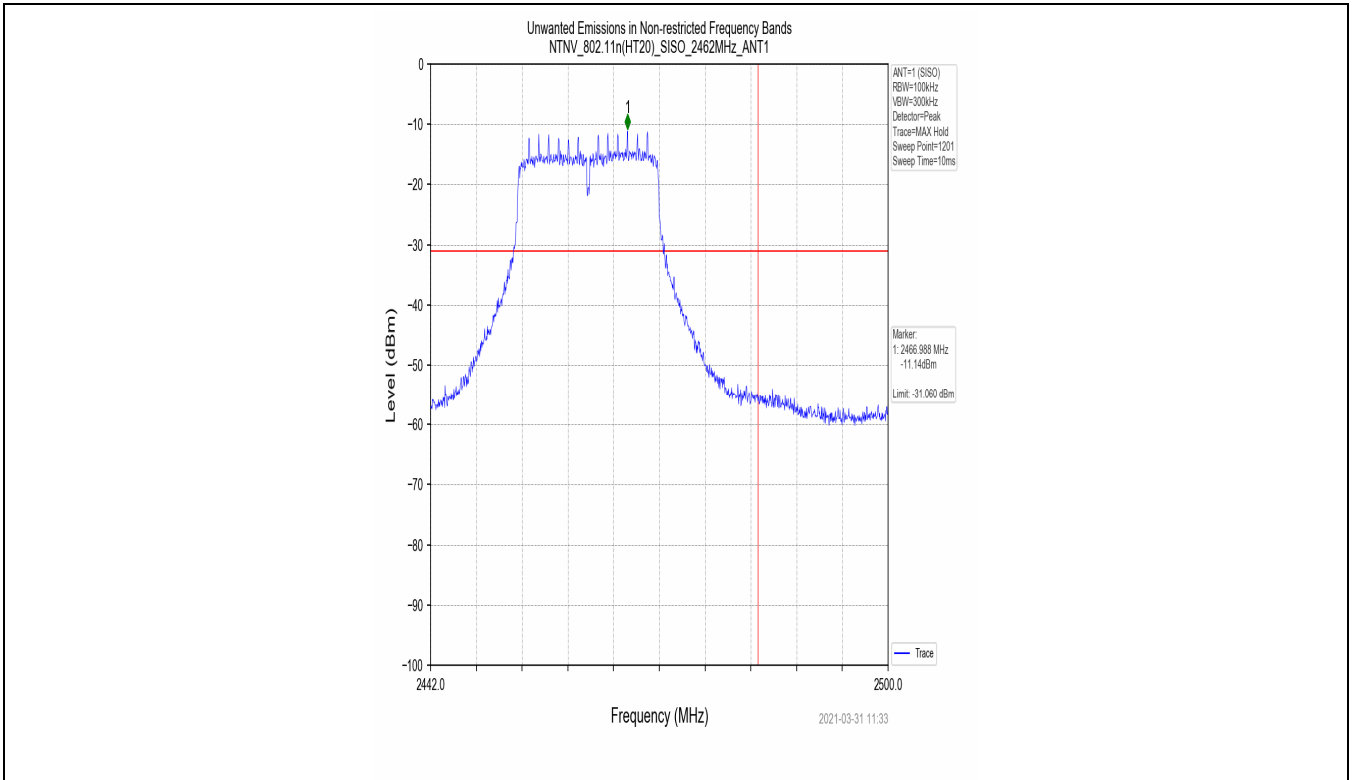
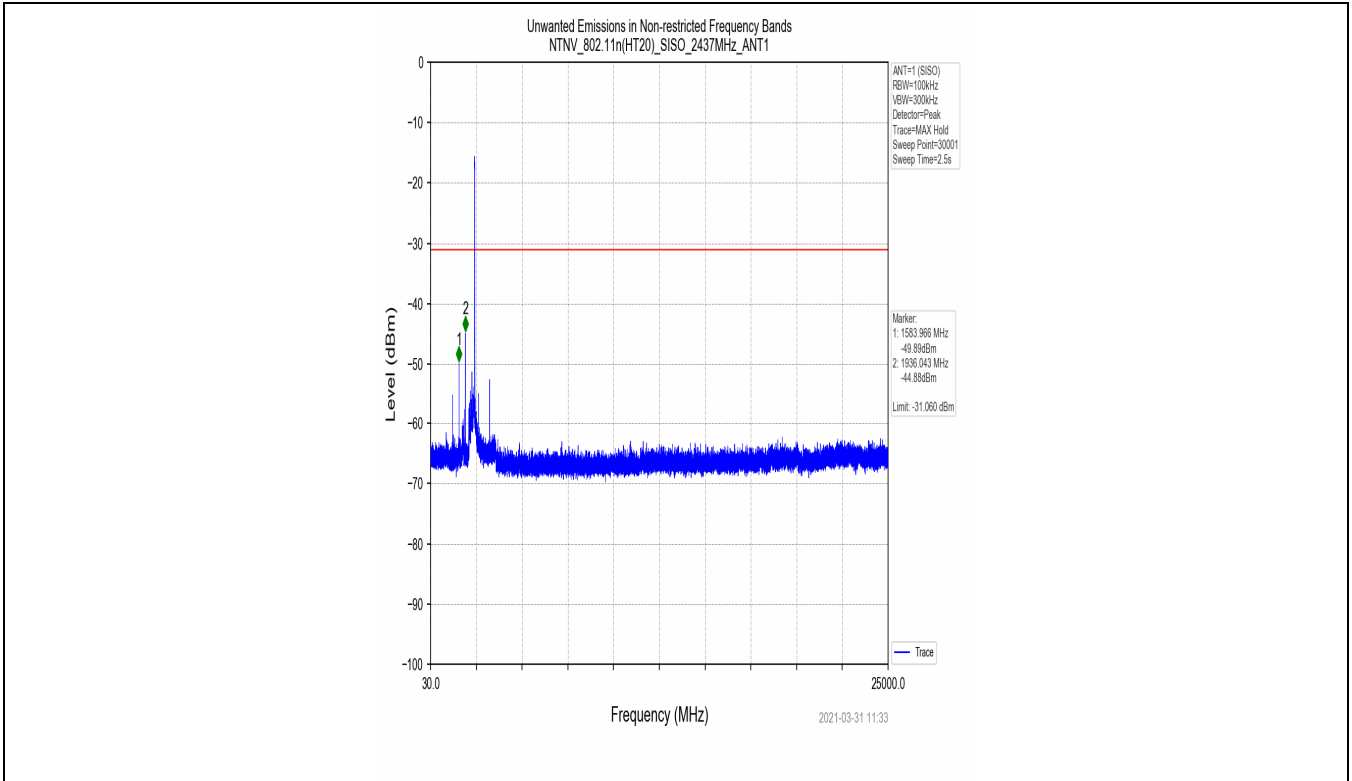


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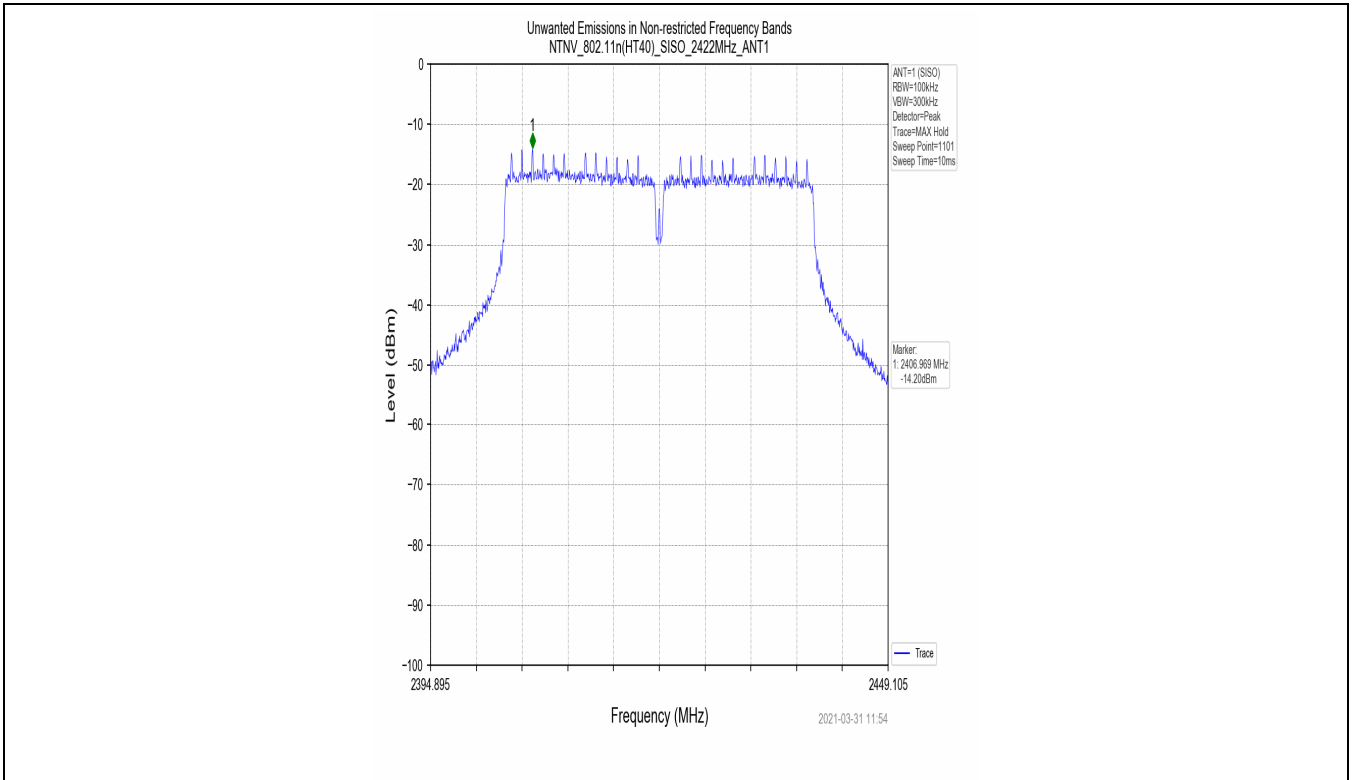
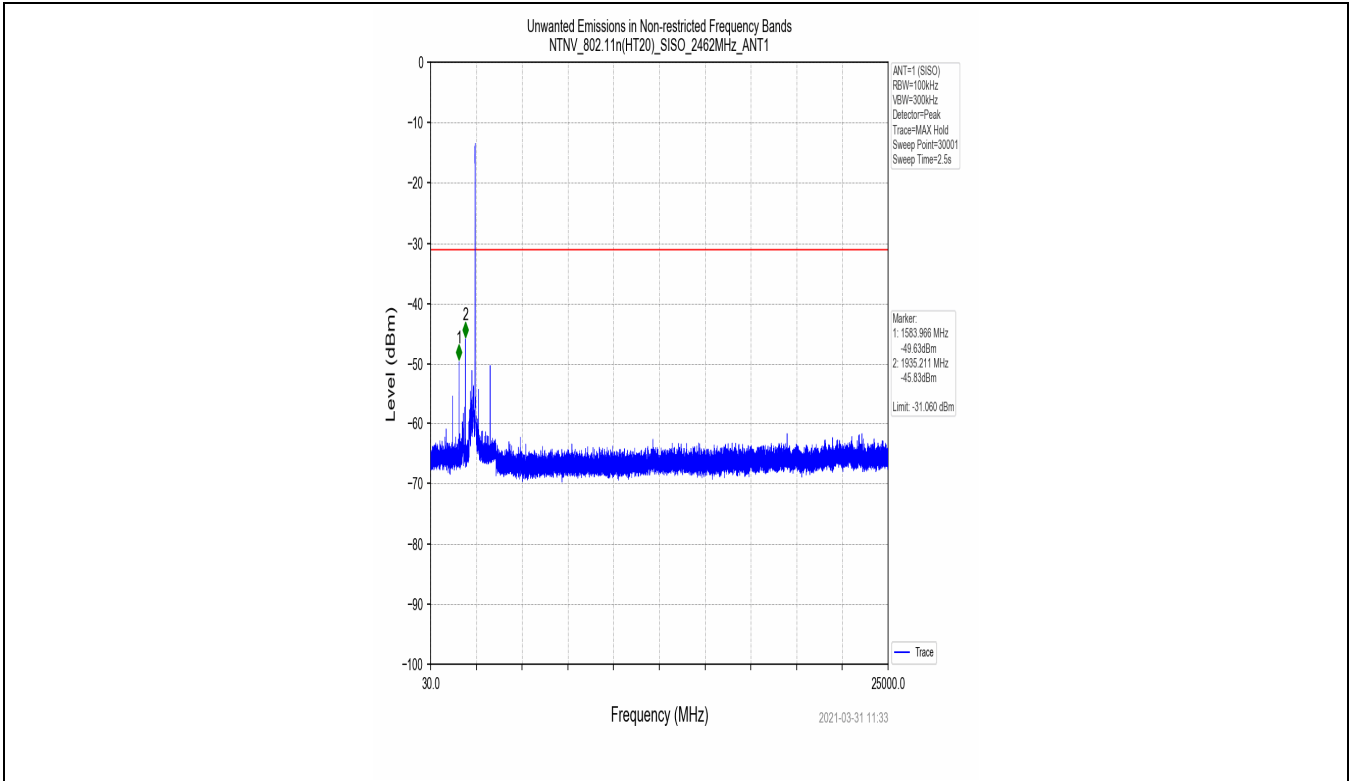


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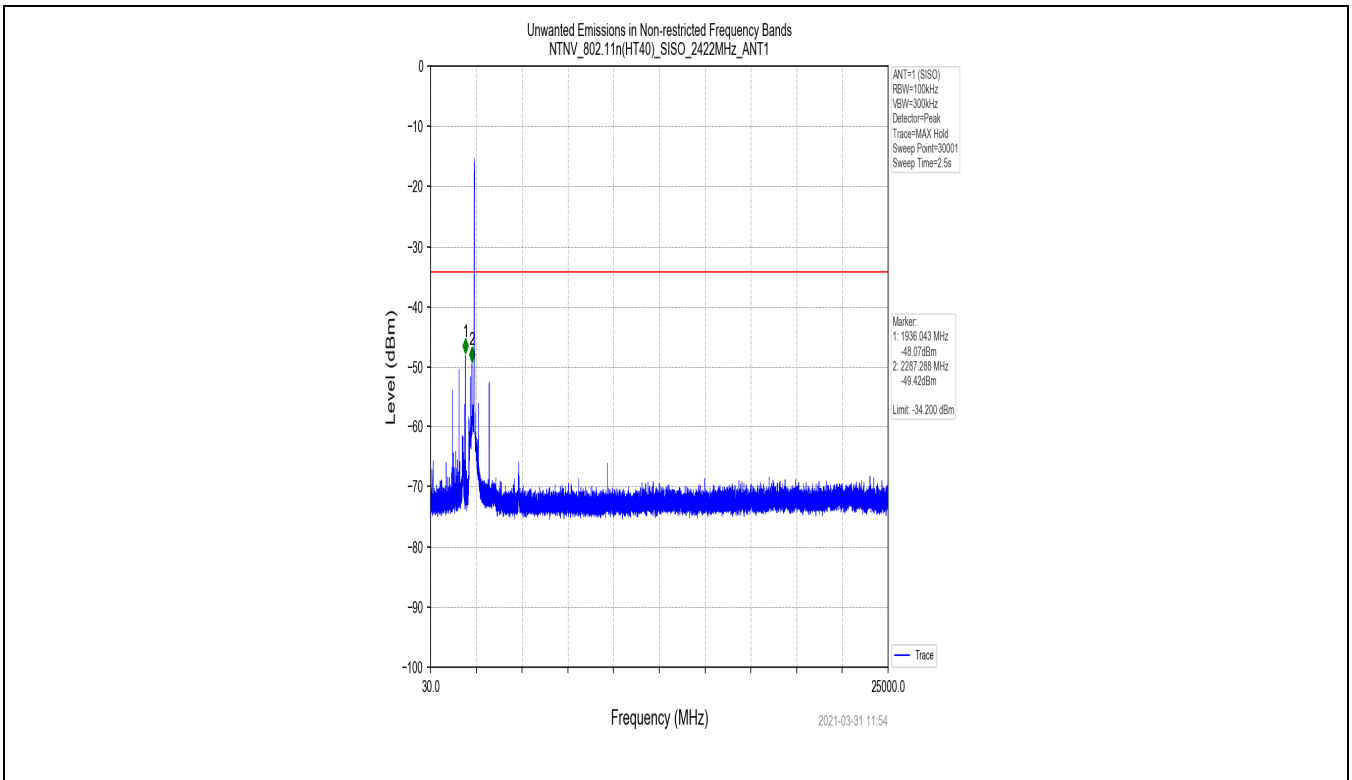
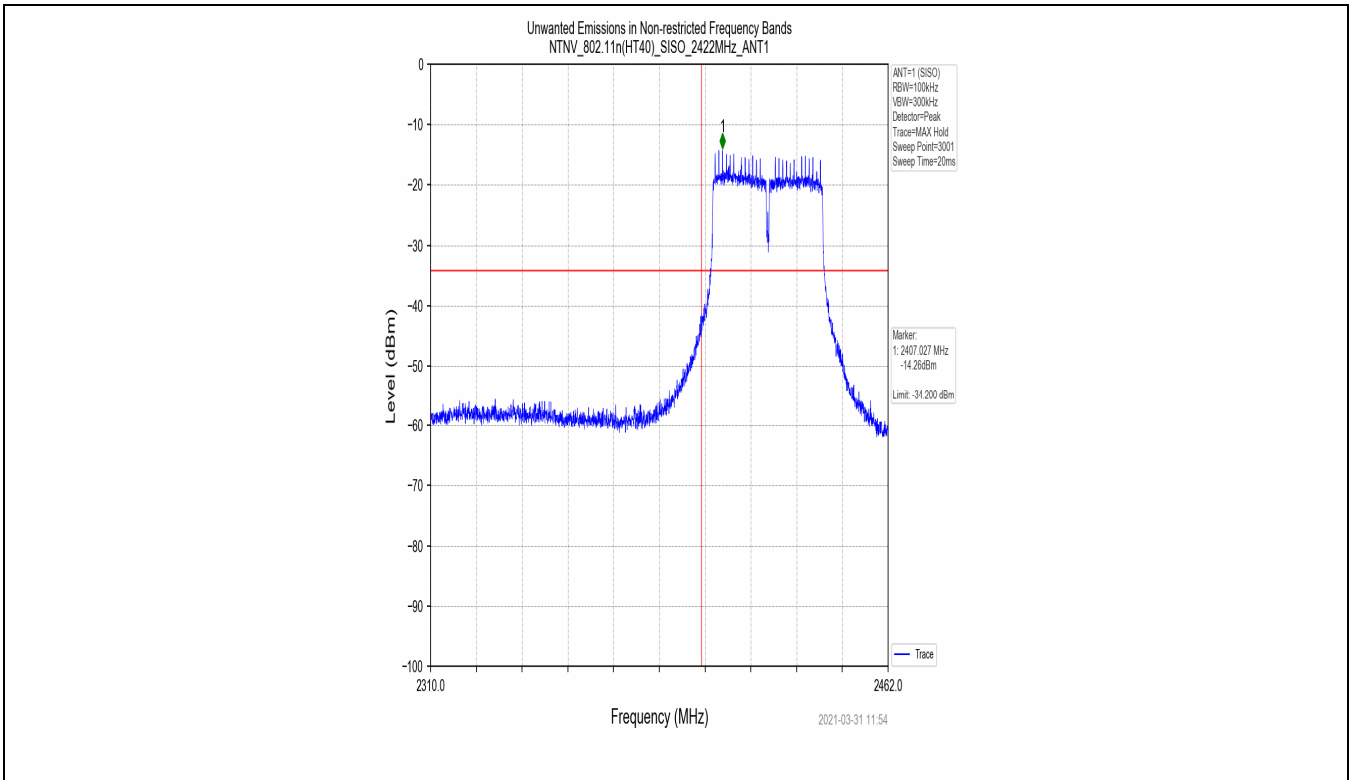
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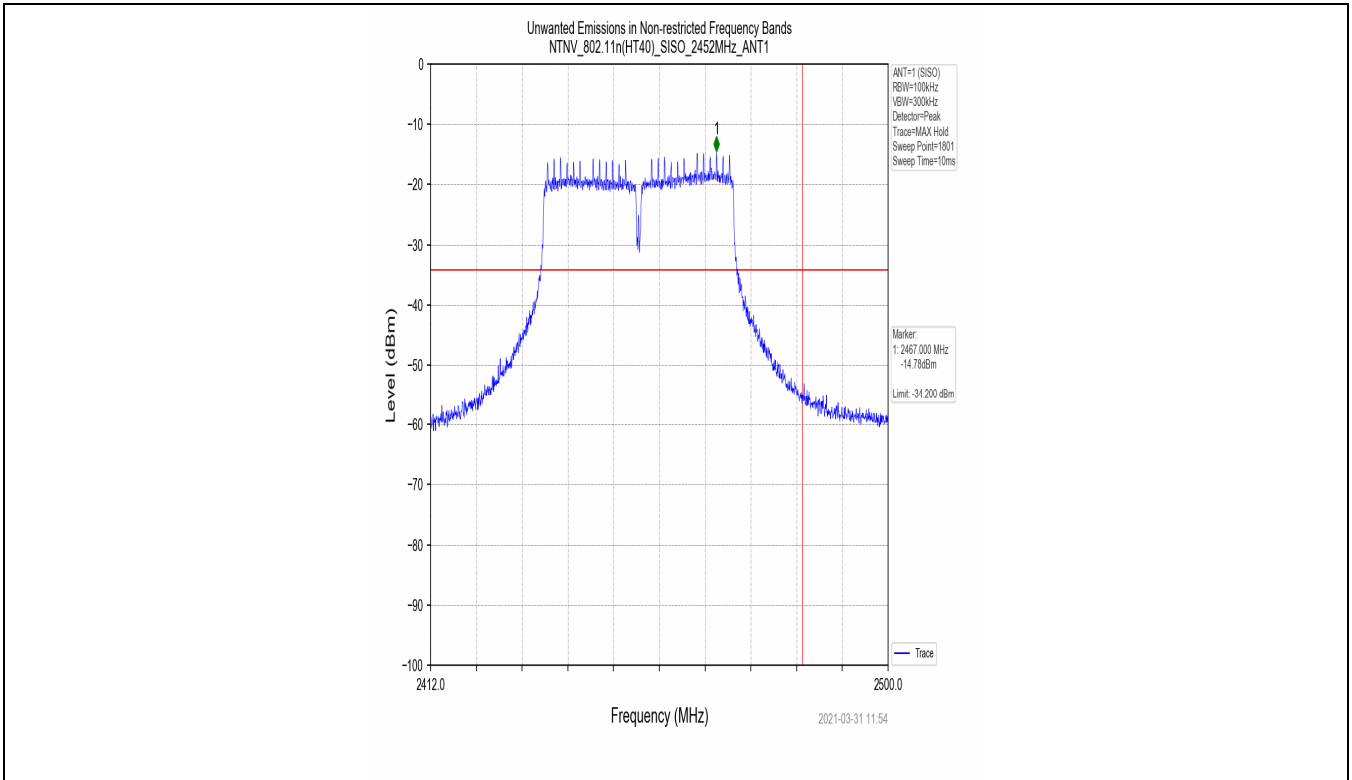
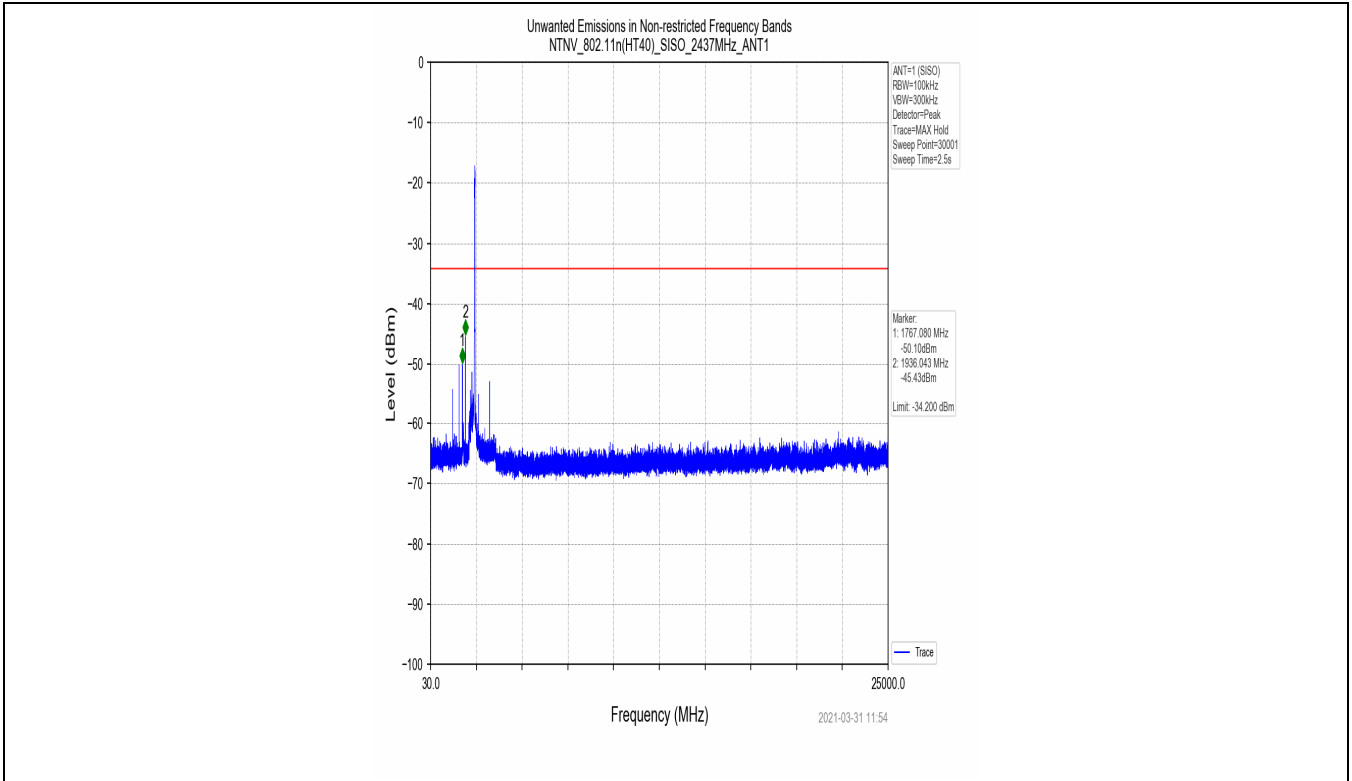
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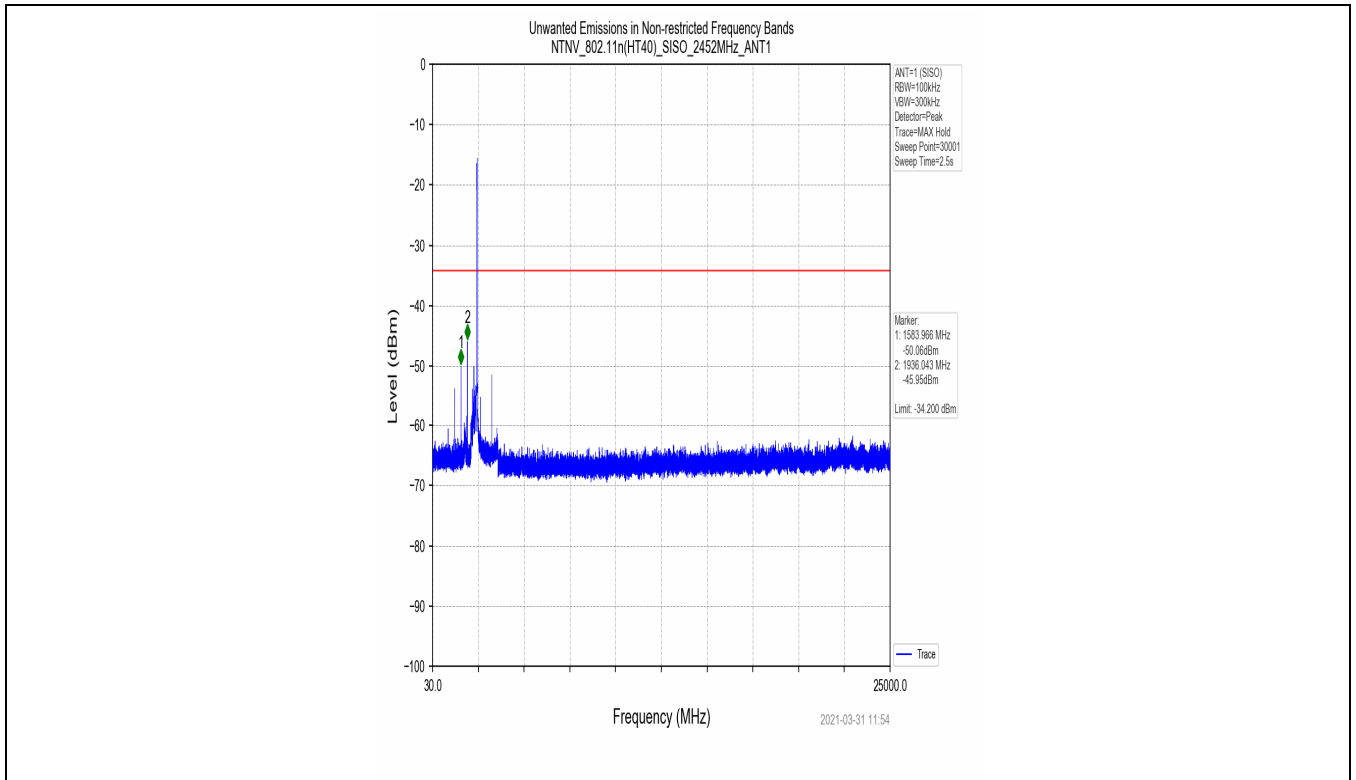
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