

## Appendix A for KSEM210300044201

### 1. Duty Cycle

#### 1.1 Test Result

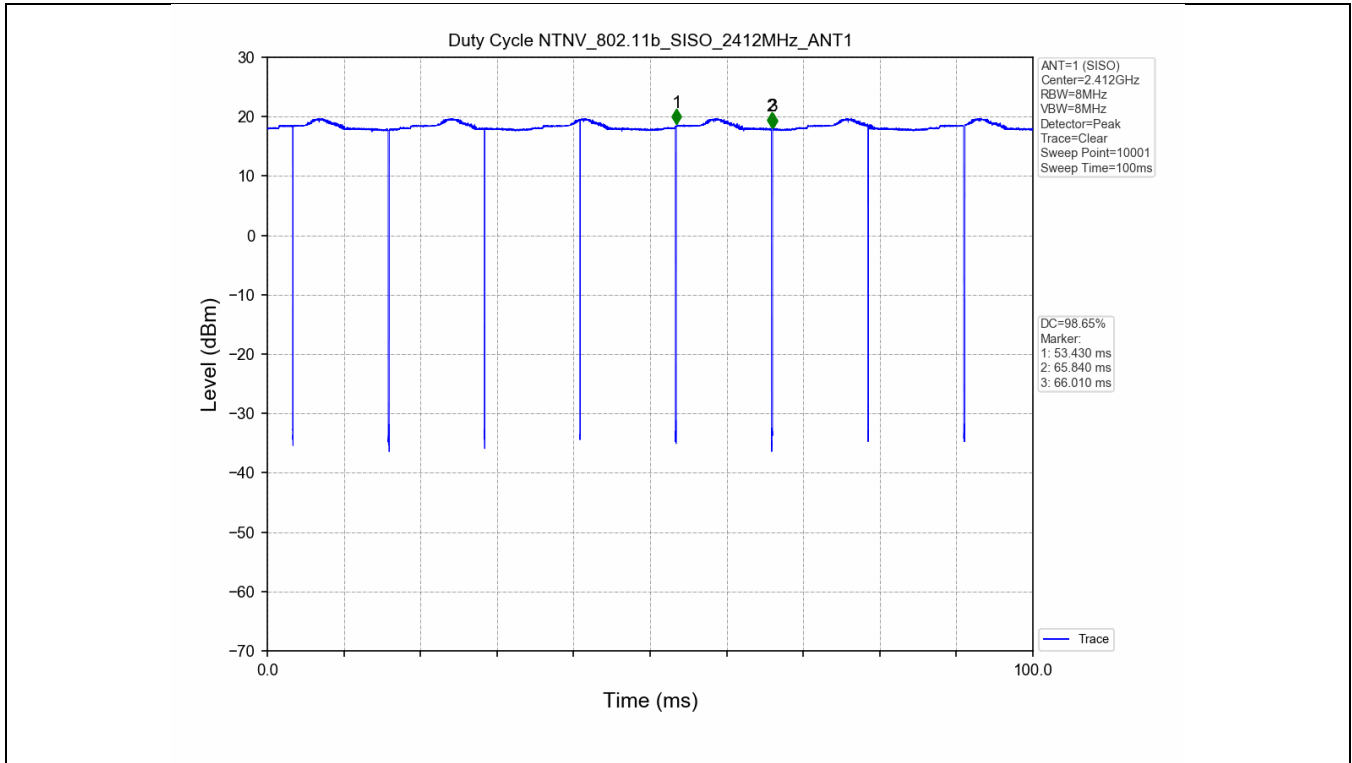
Test Mode	Channel Frequency(M Hz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	12.410	12.580	98.65	0.06
			2	12.410	12.570	98.73	0.06
	2437	SISO	1	12.410	12.550	98.88	0.05
			2	12.420	12.570	98.81	0.05
	2462	SISO	1	12.420	12.580	98.73	0.06
			2	12.420	12.630	98.34	0.07
802.11g	2412	SISO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
802.11n(HT20)	2412	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2437	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2462	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
802.11n(HT40)	2422	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2437	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00
	2452	MIMO	1	100.000	100.000	100.00	0.00
			2	100.000	100.000	100.00	0.00

#### 1.2 Test Graph



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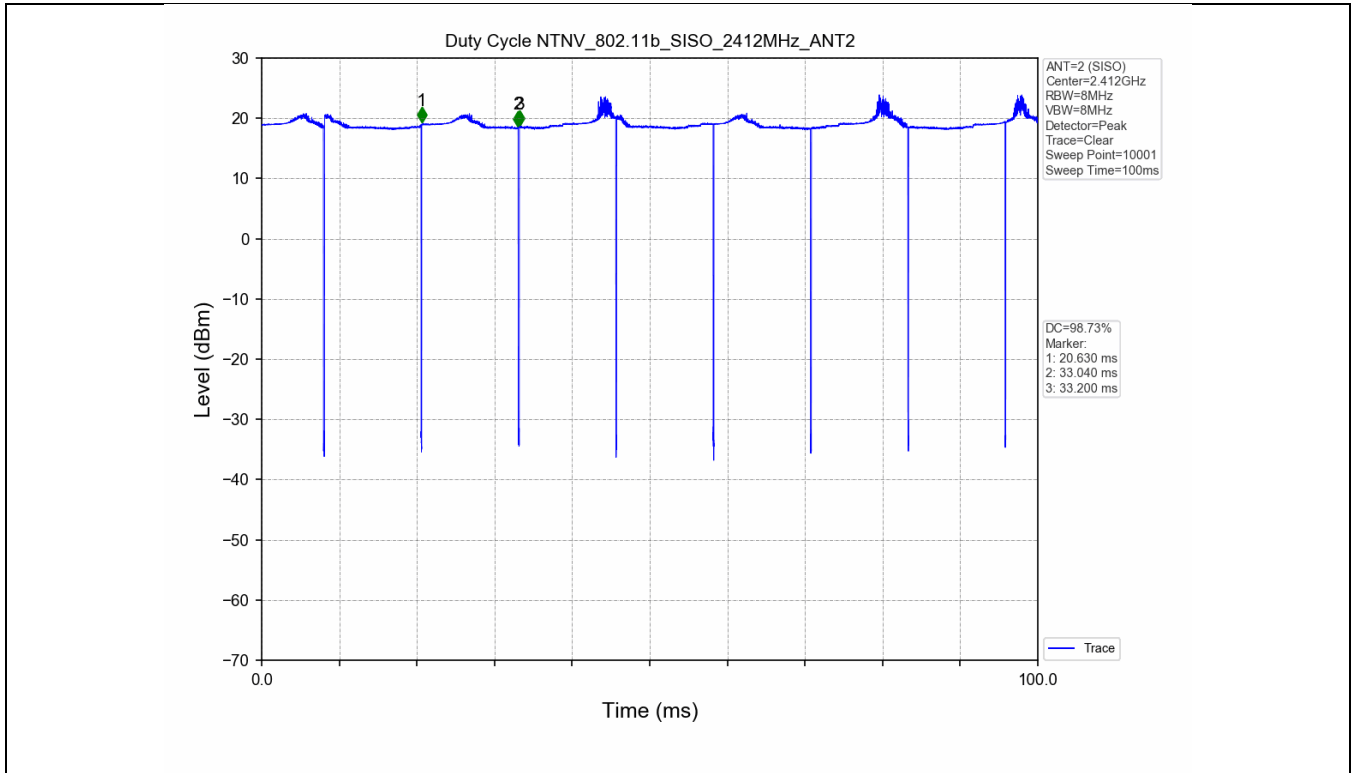
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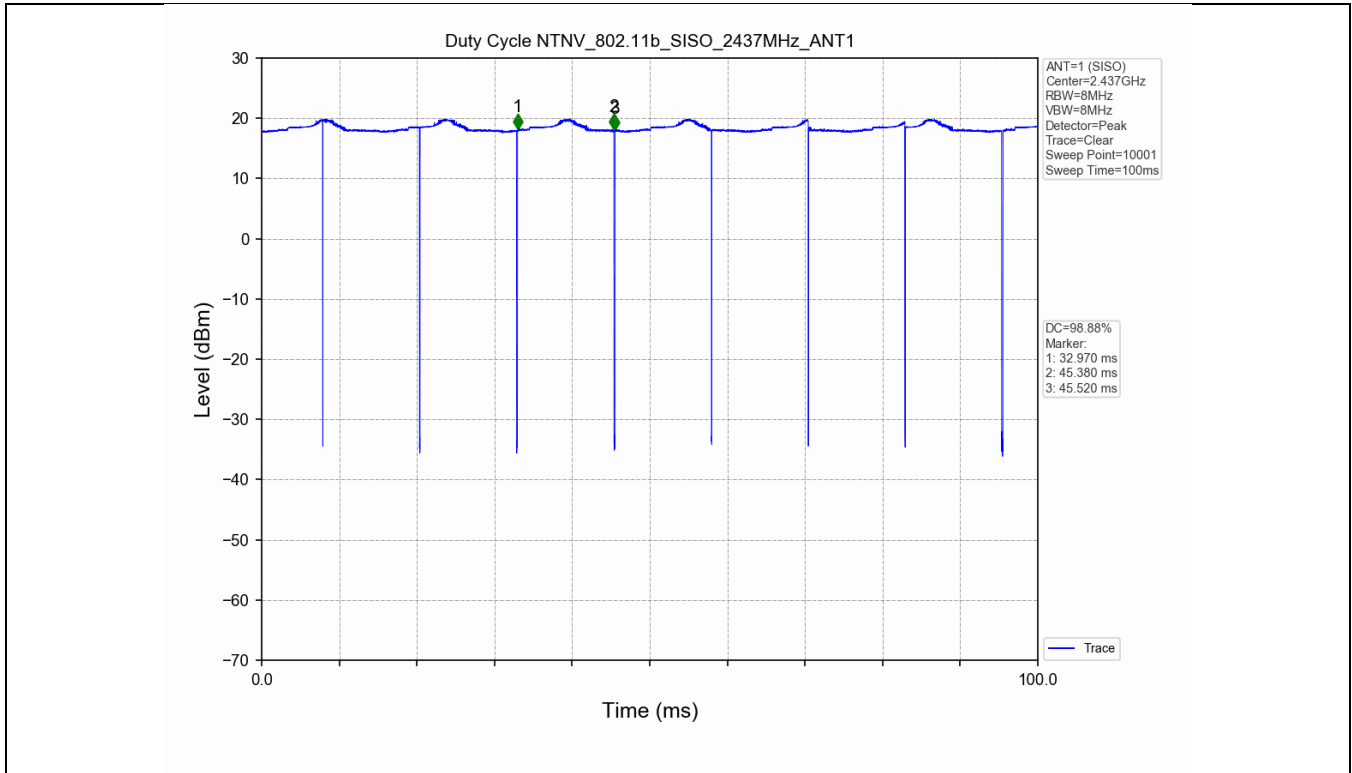
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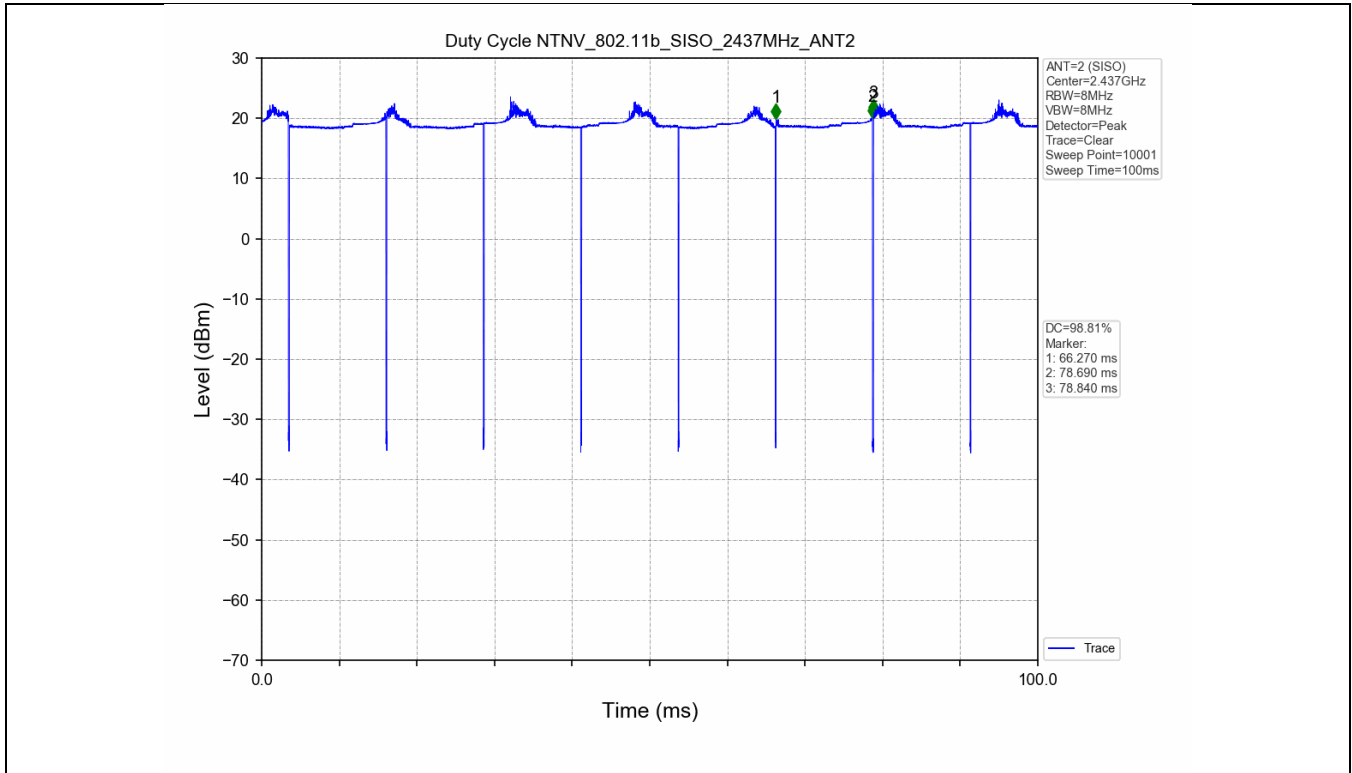
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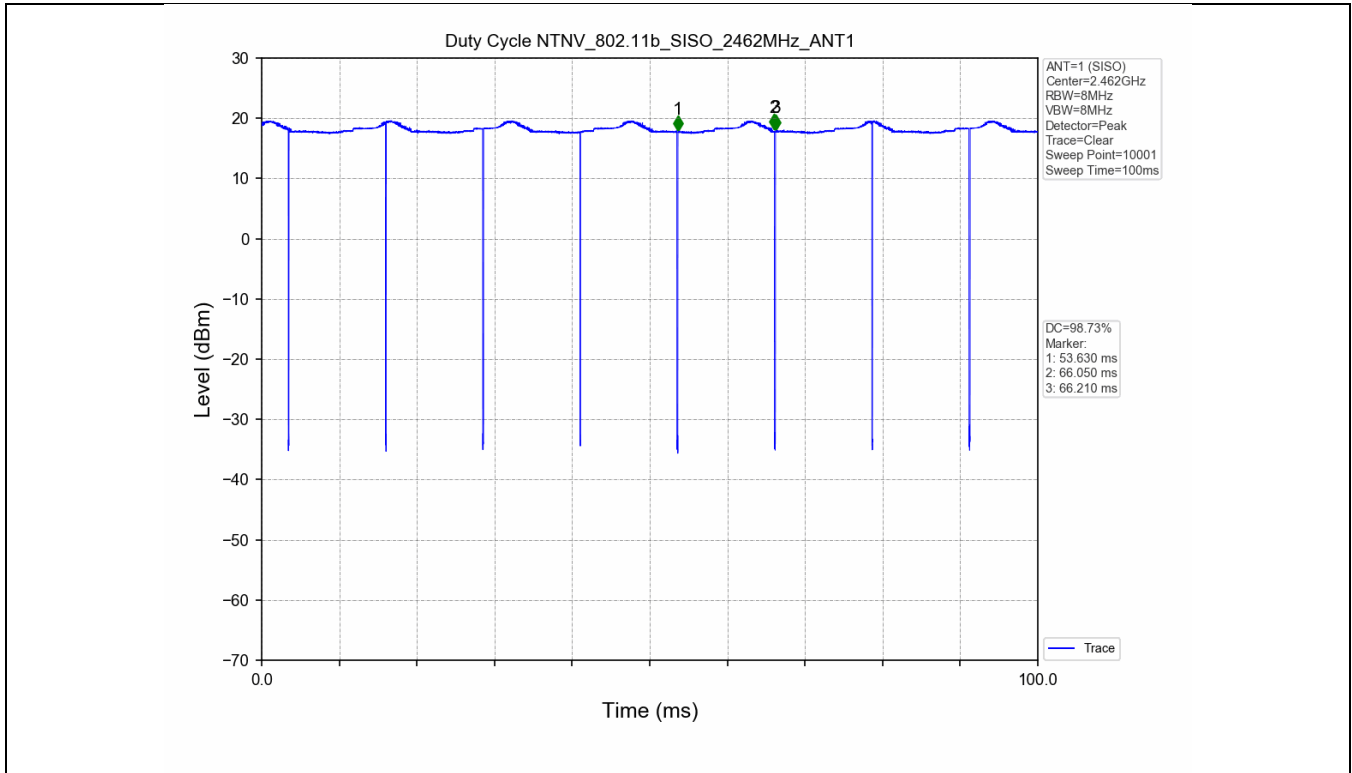
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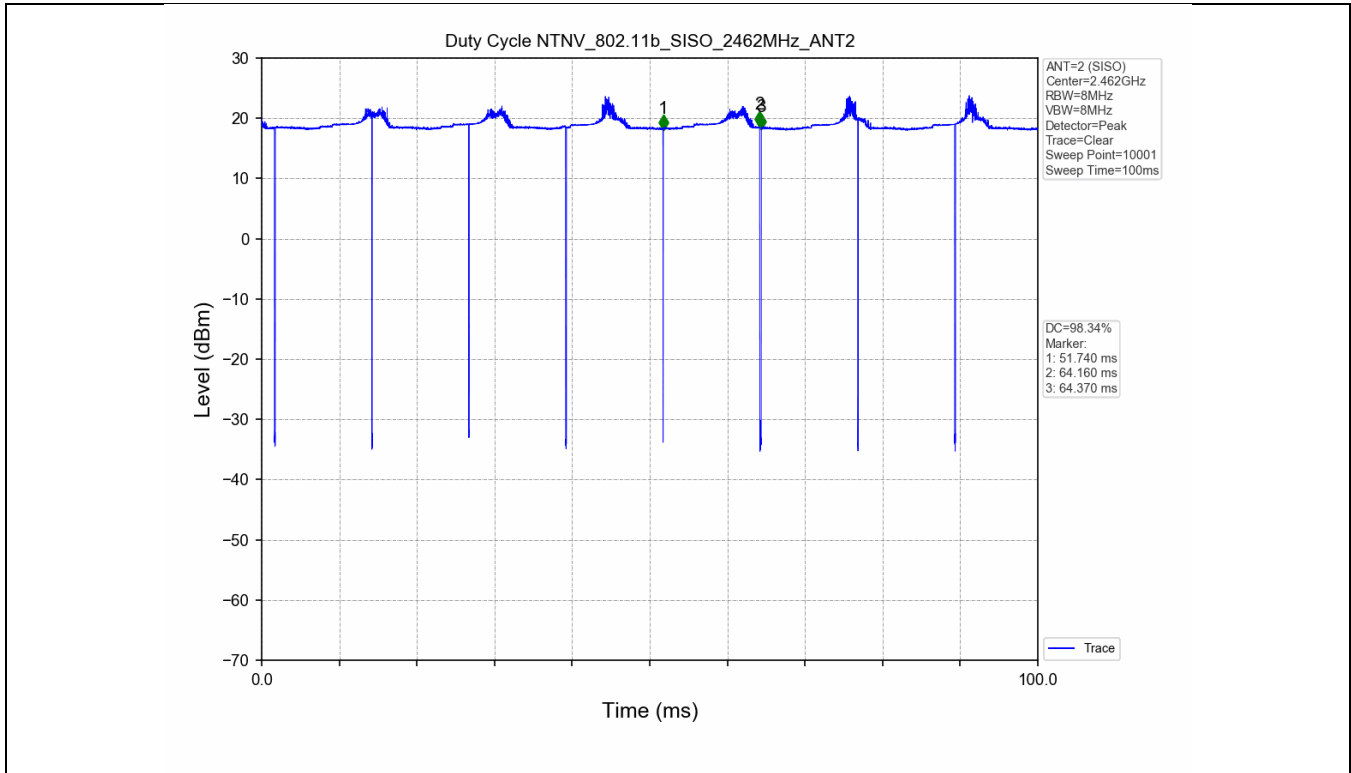
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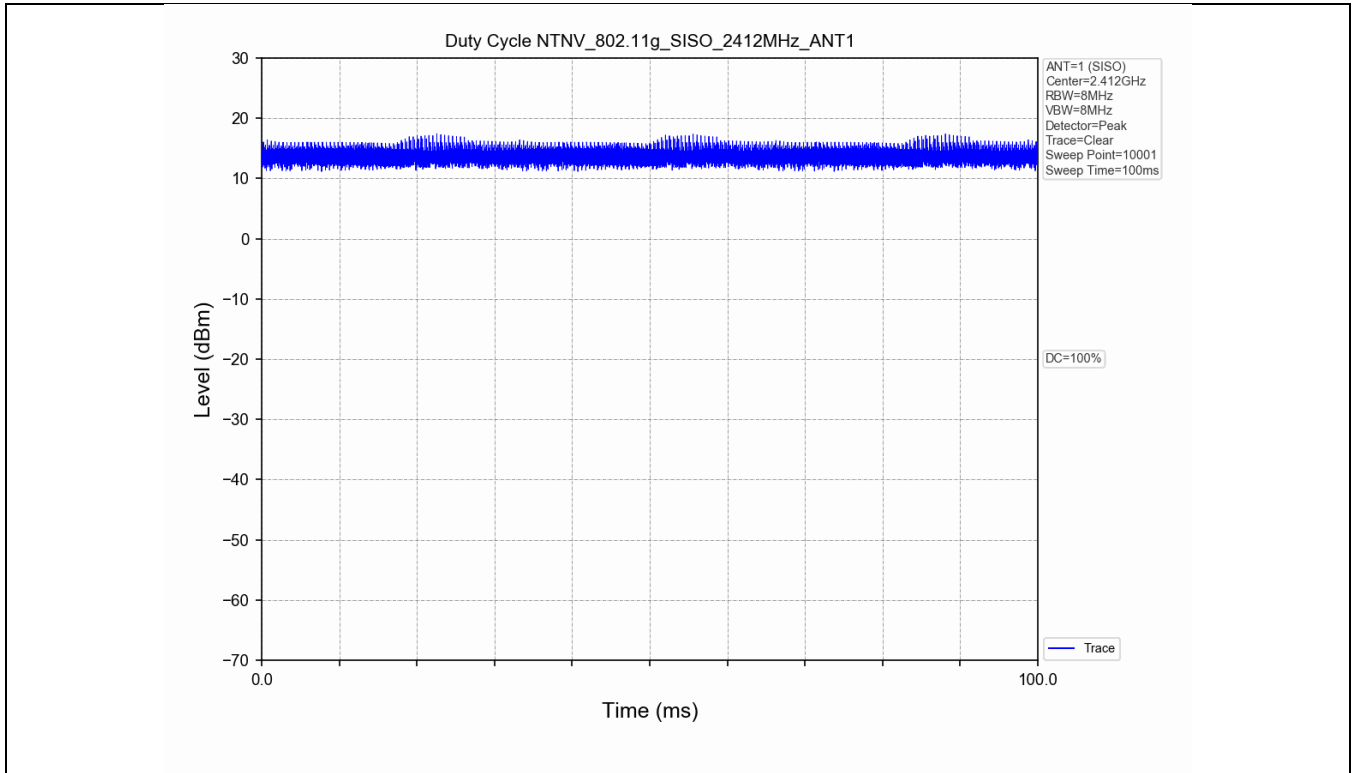
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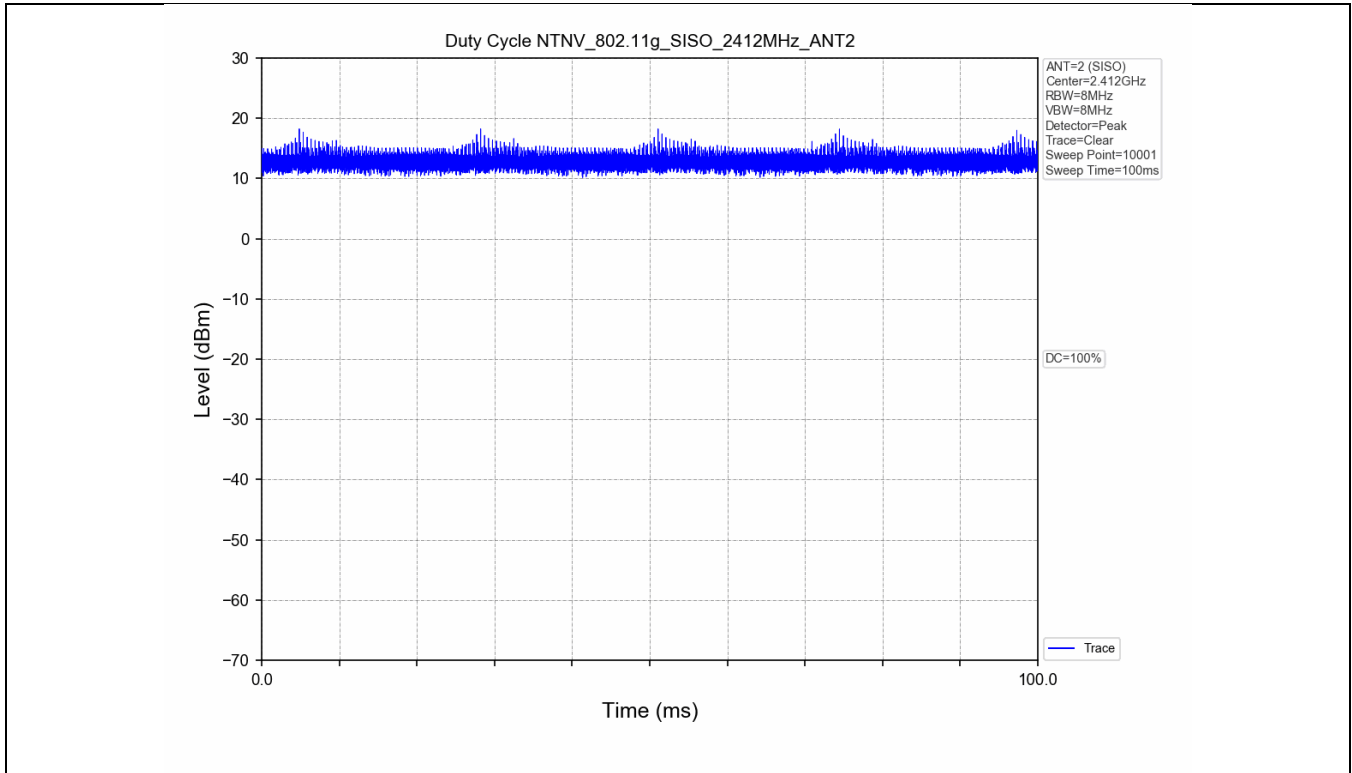


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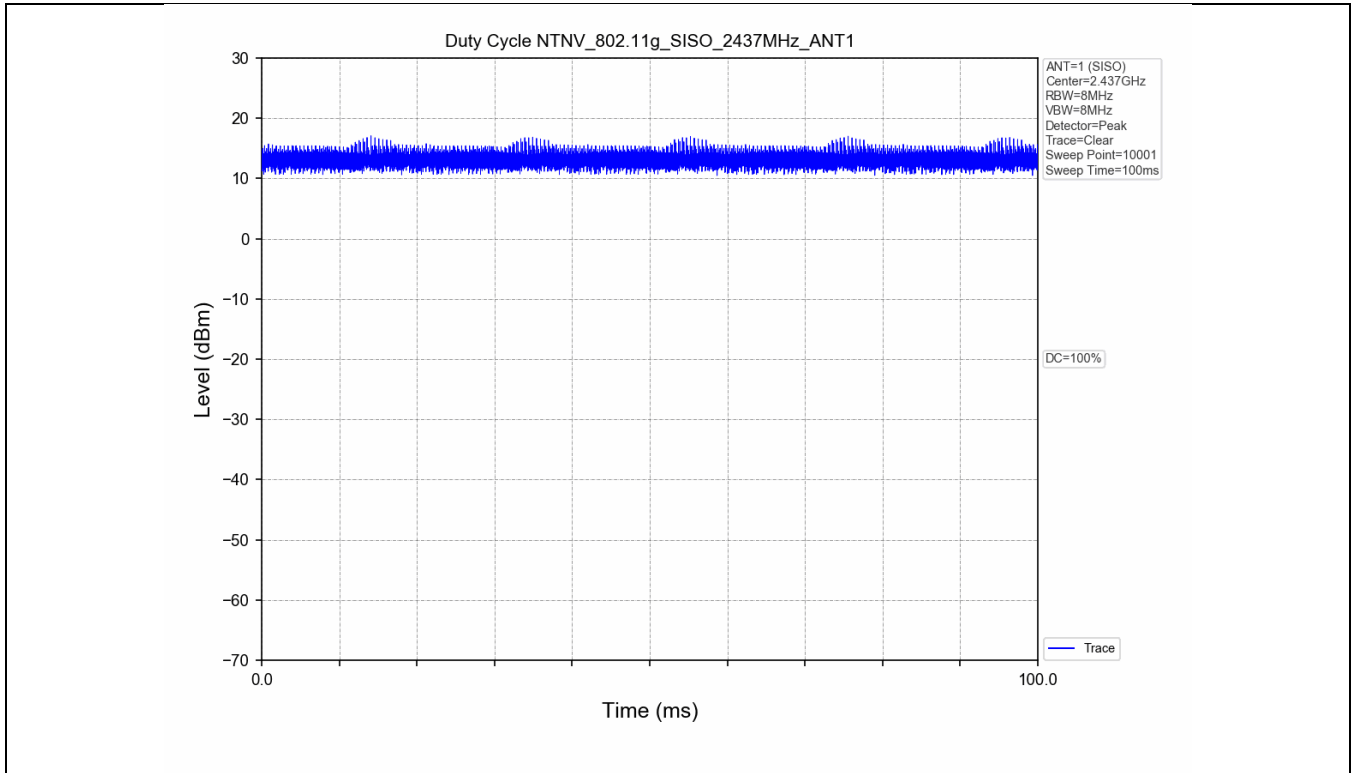




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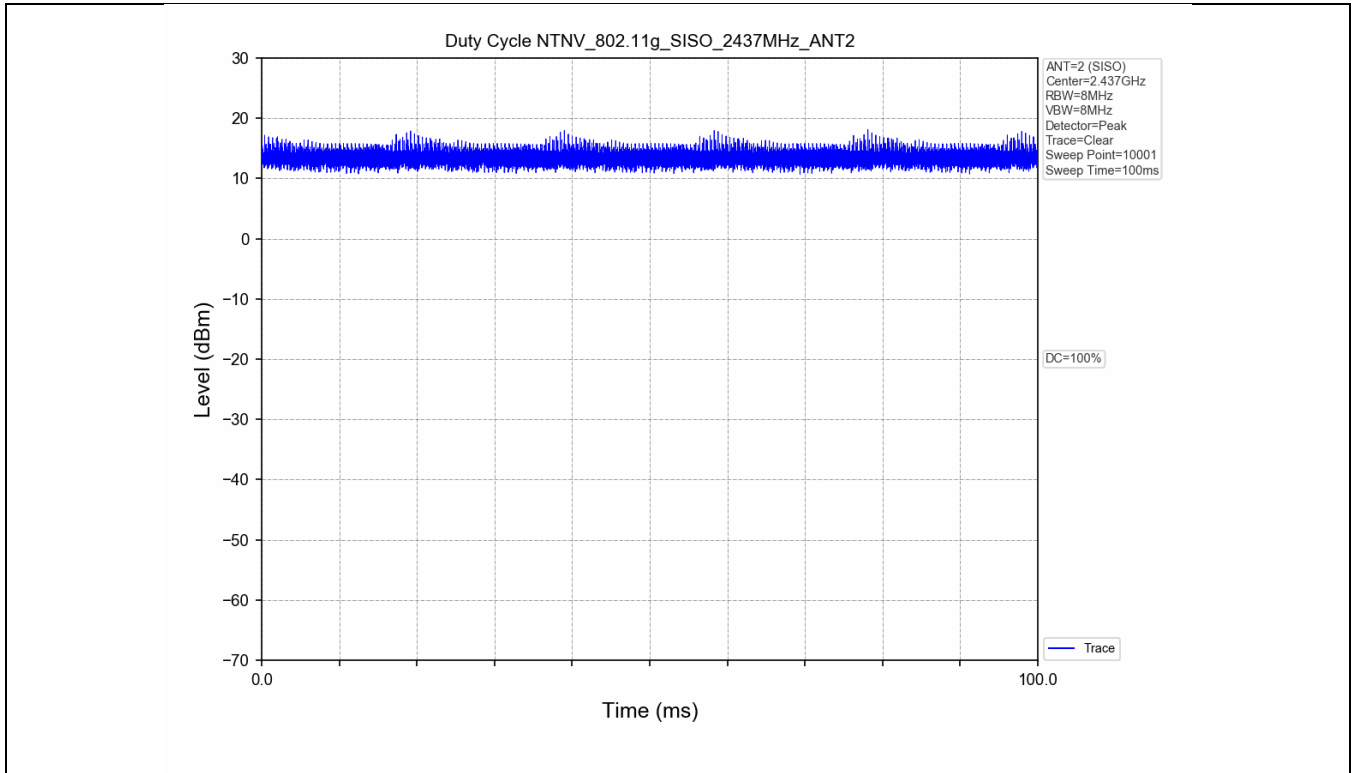
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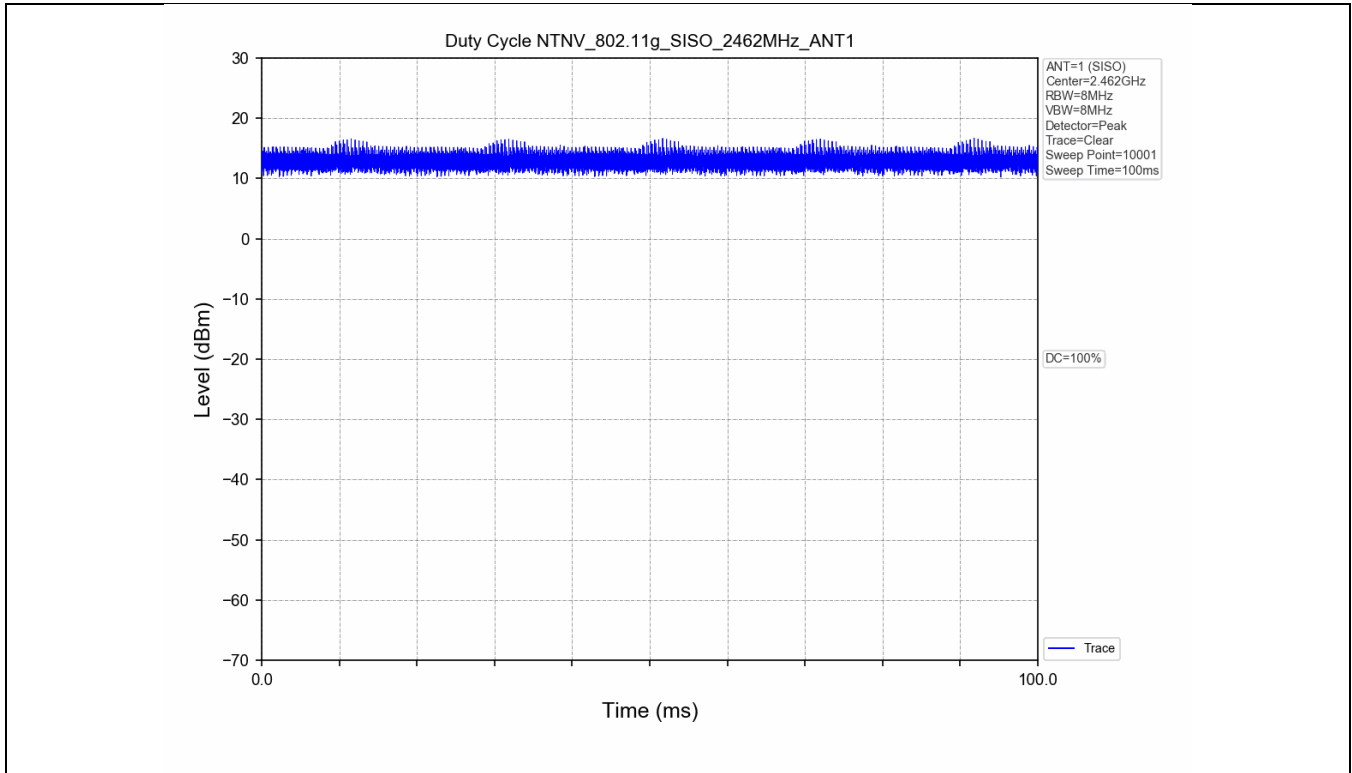
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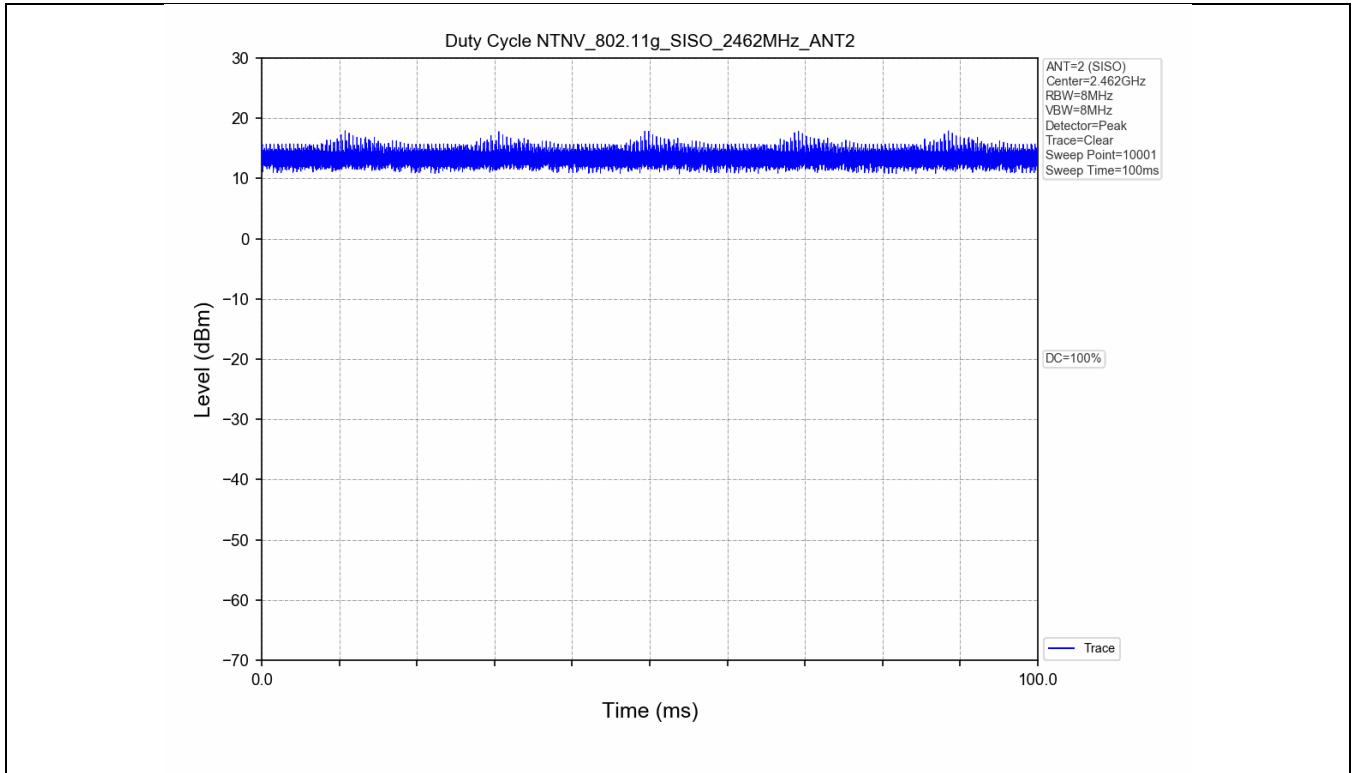
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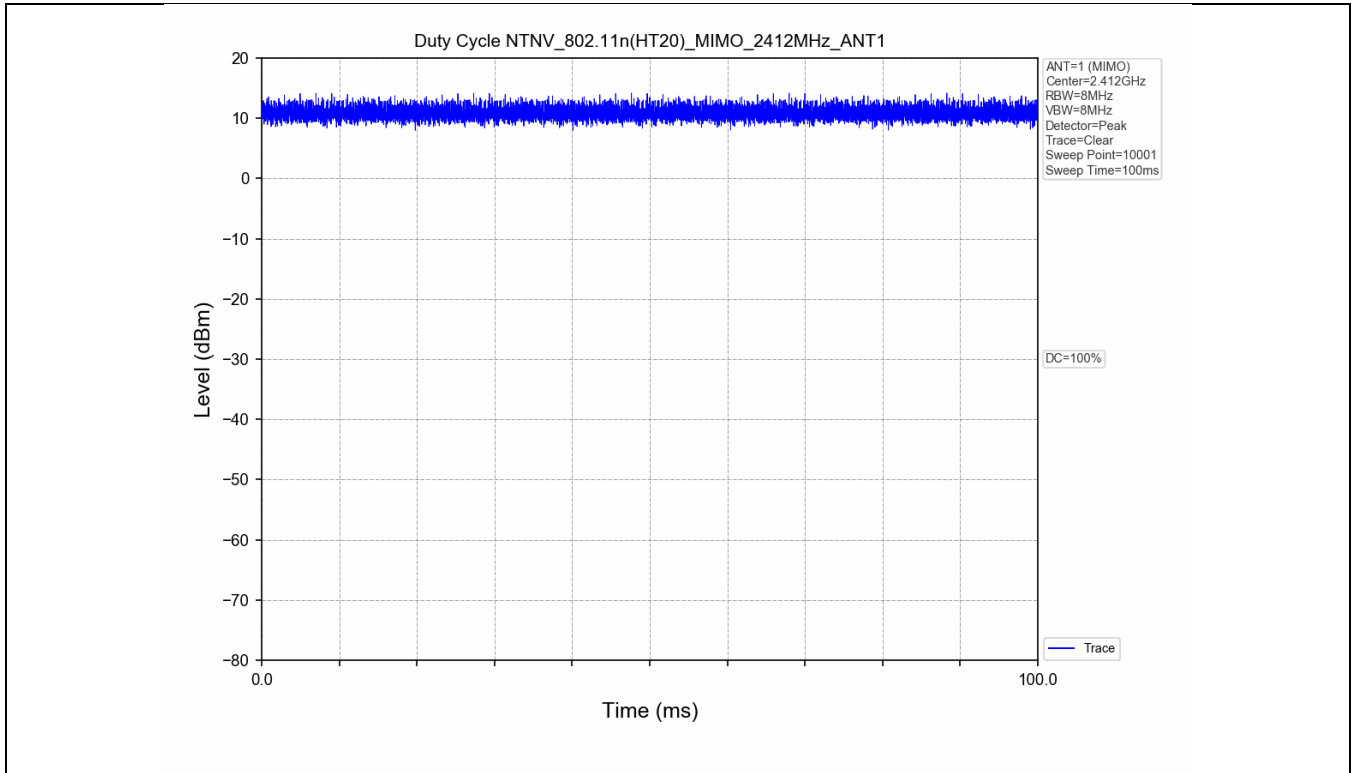


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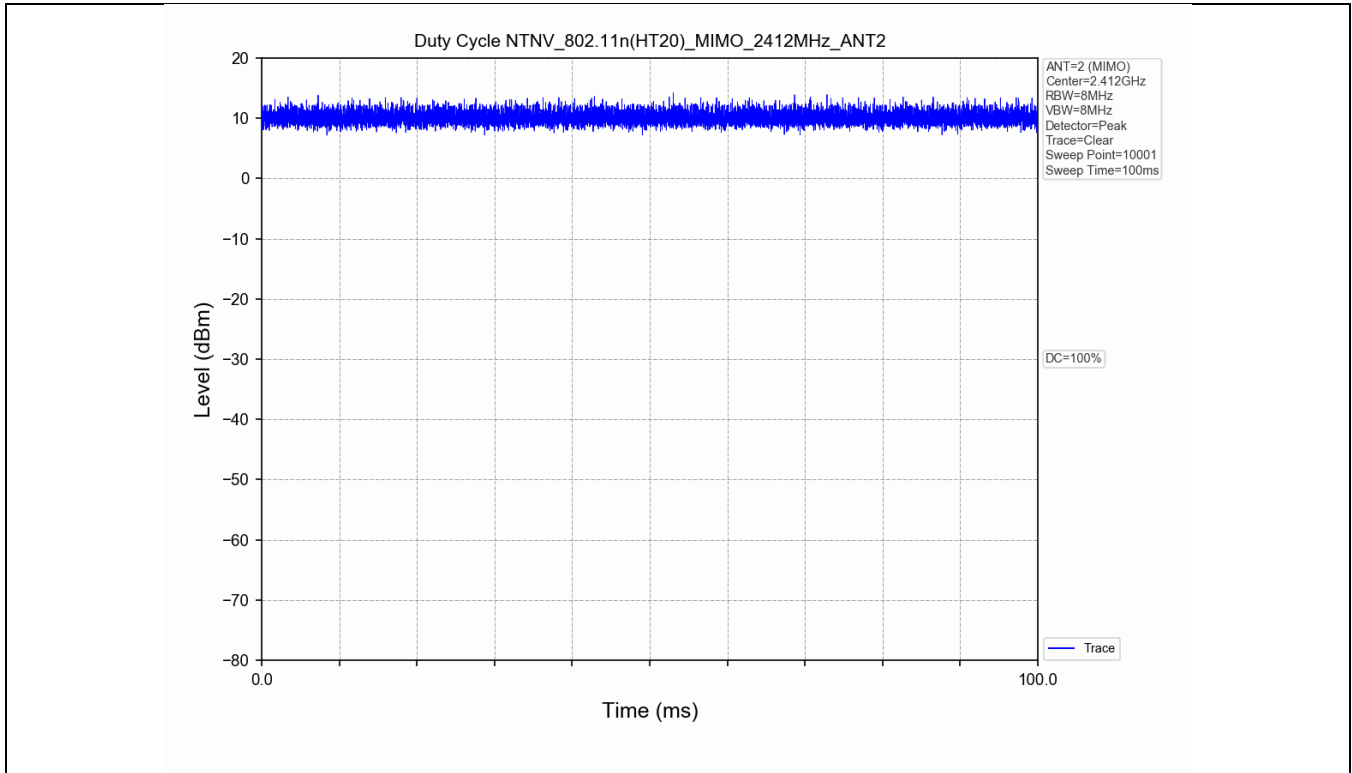
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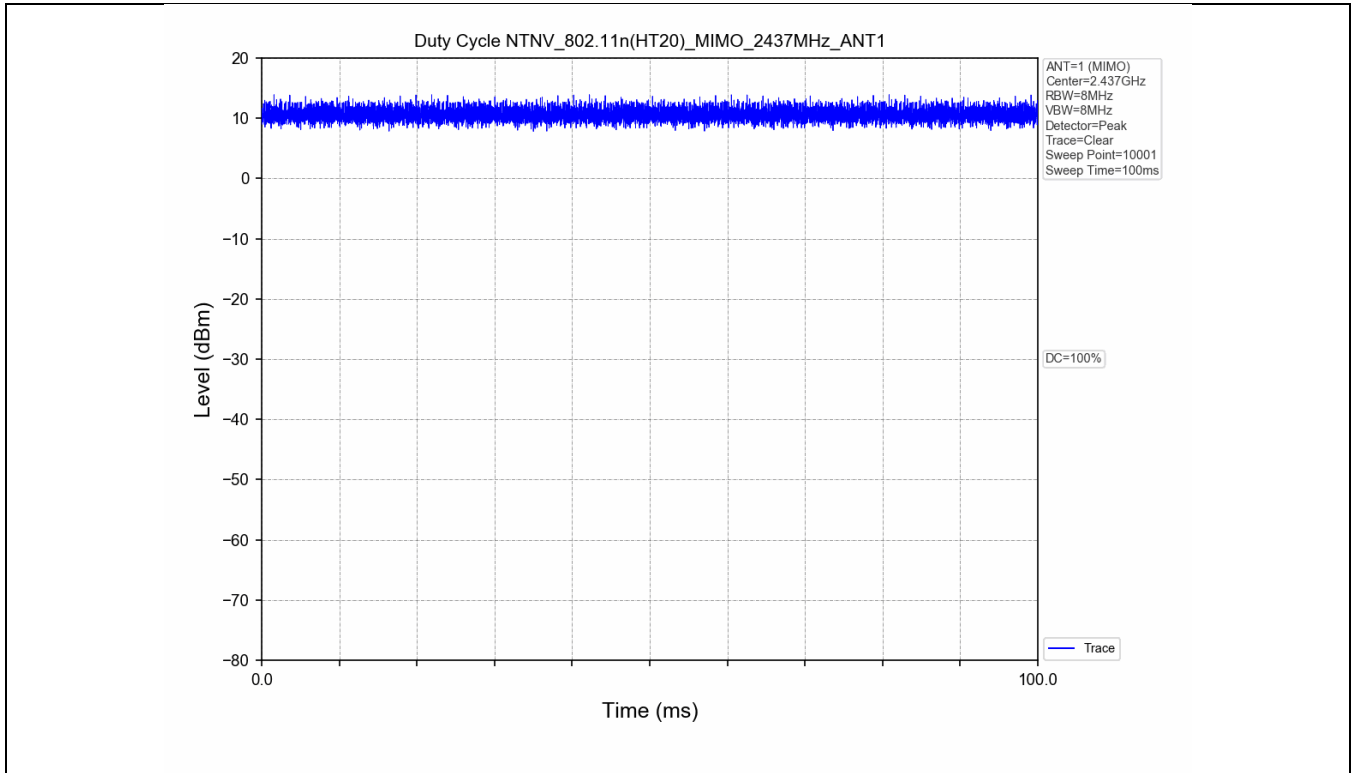
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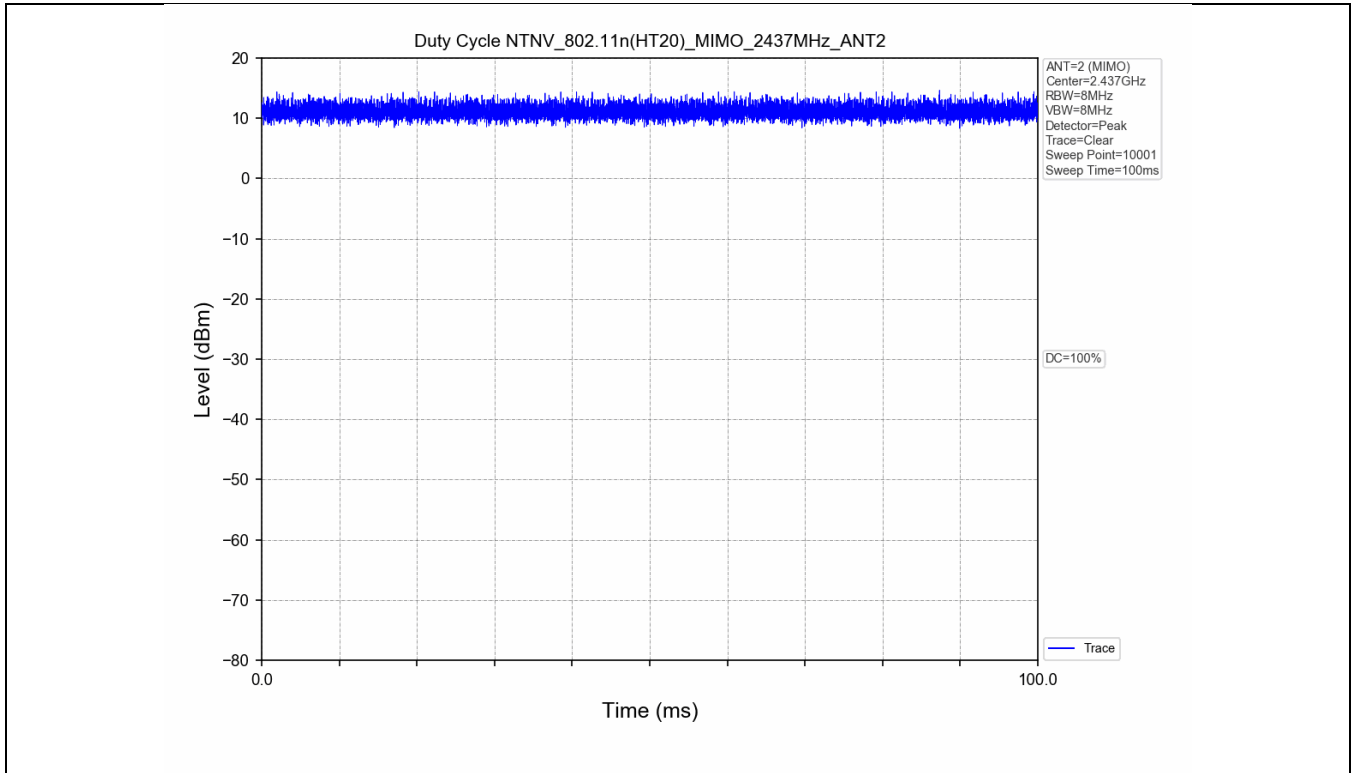
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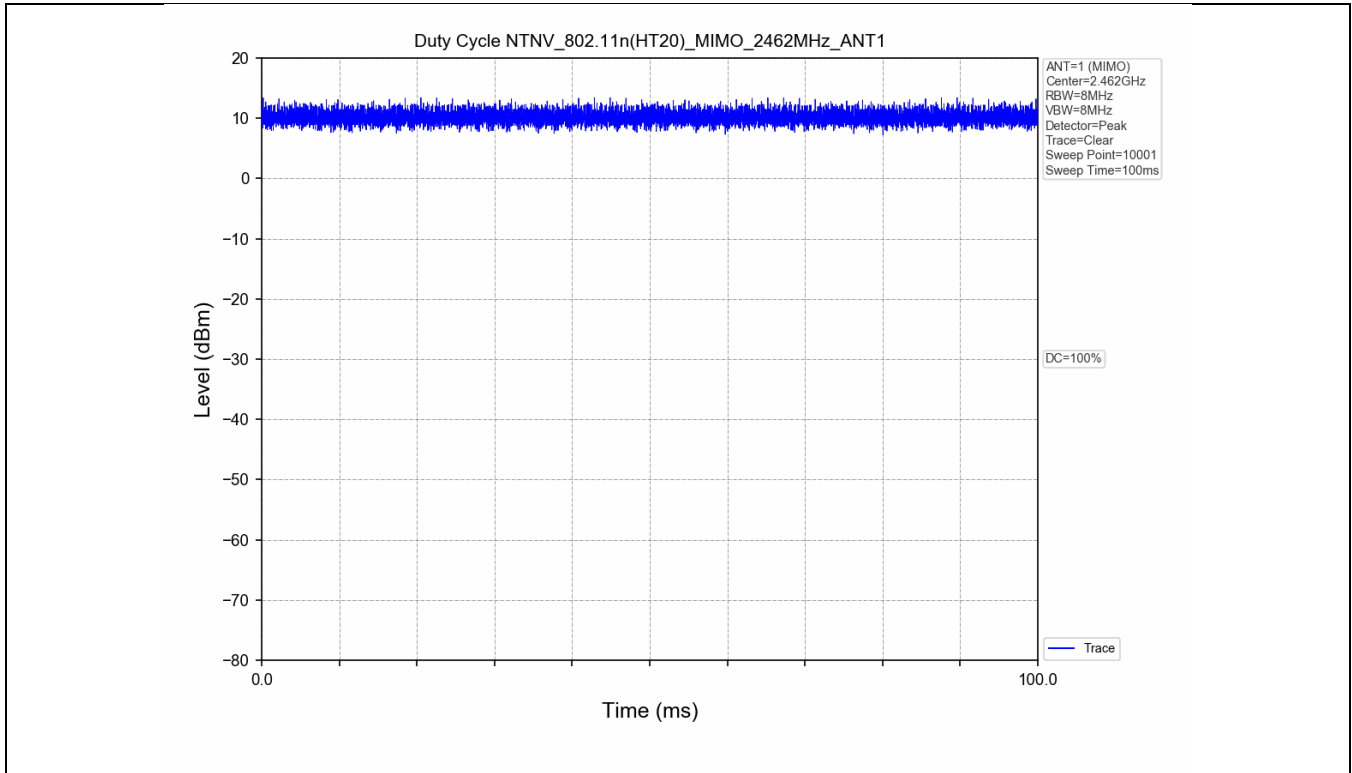
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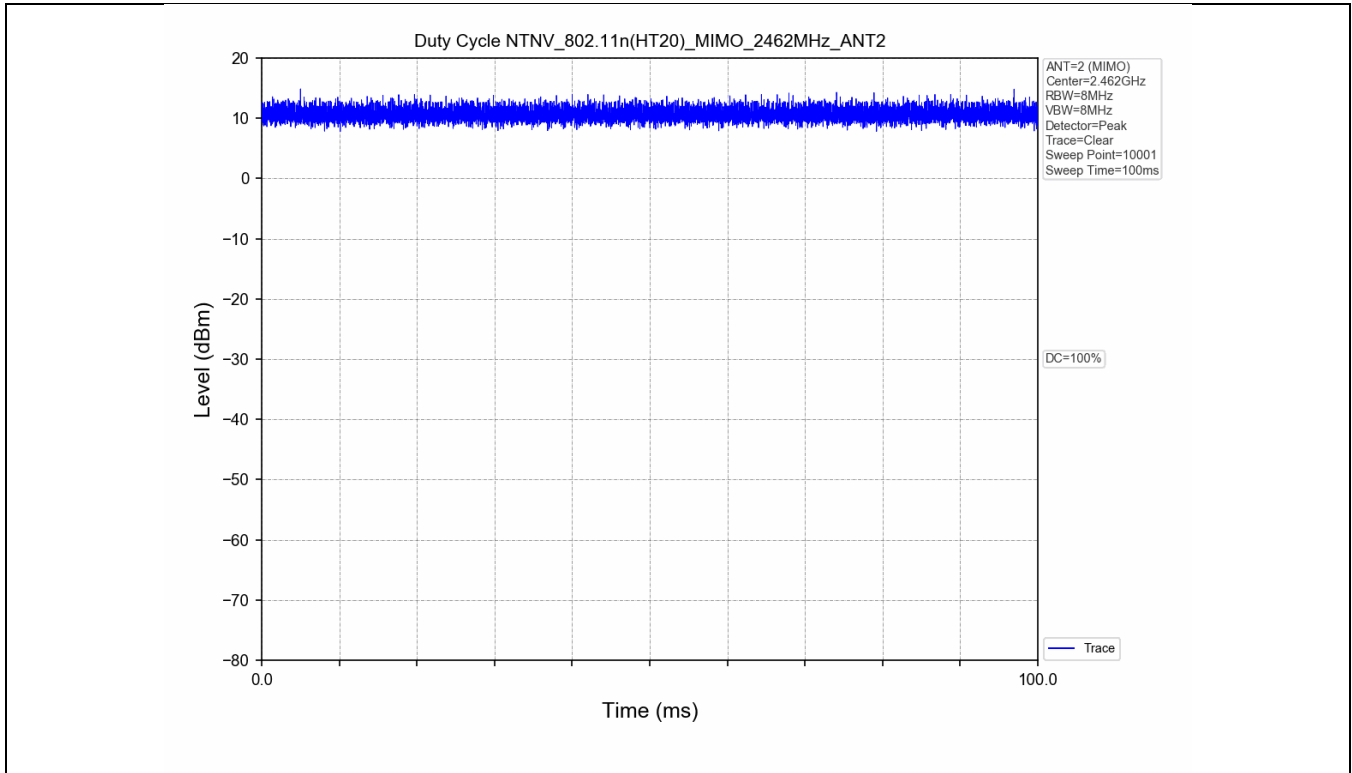
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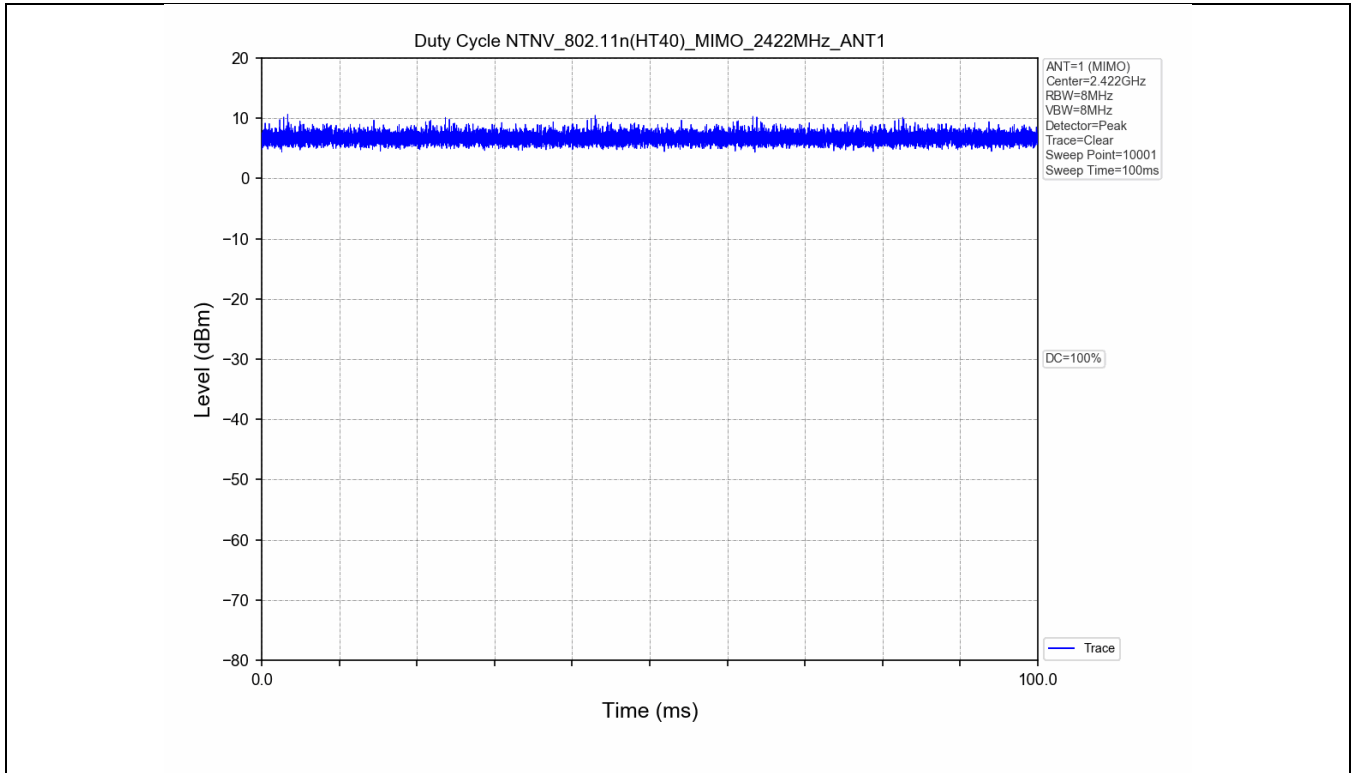
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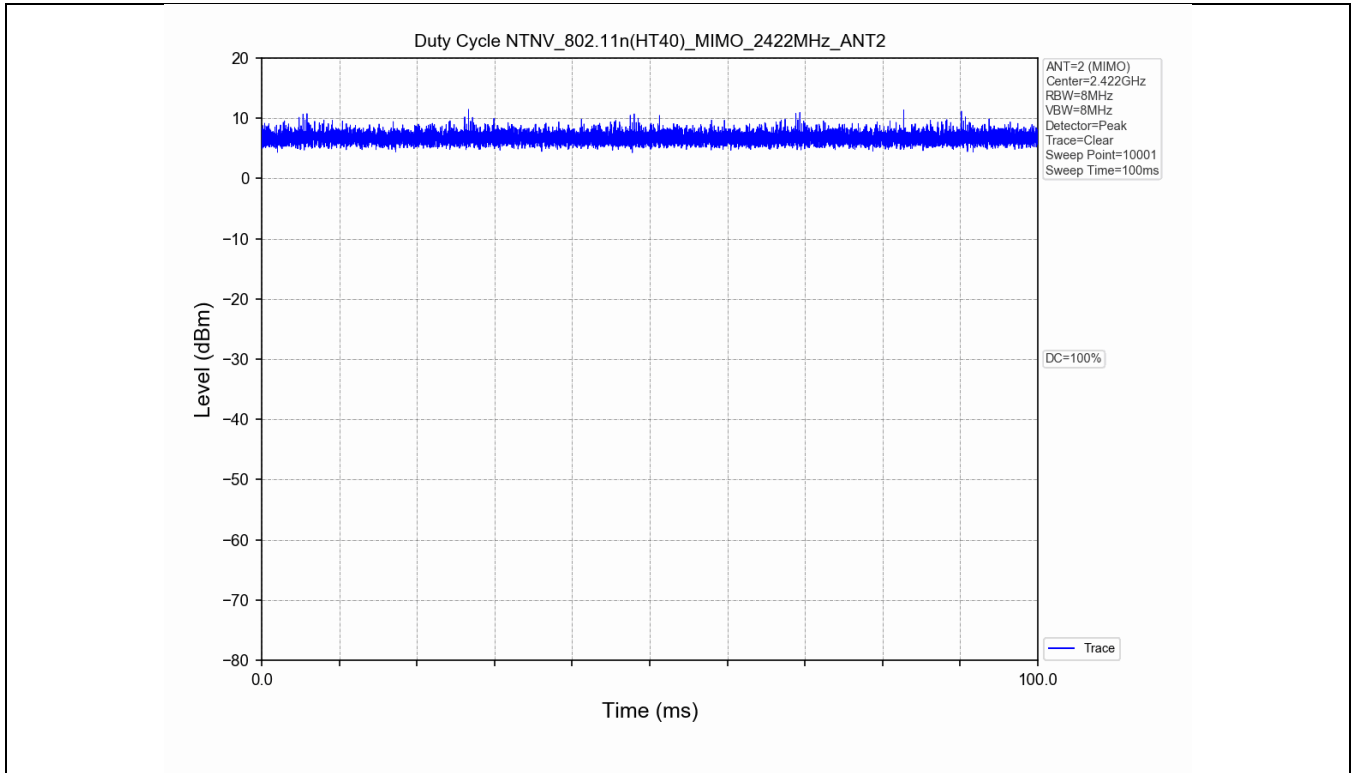
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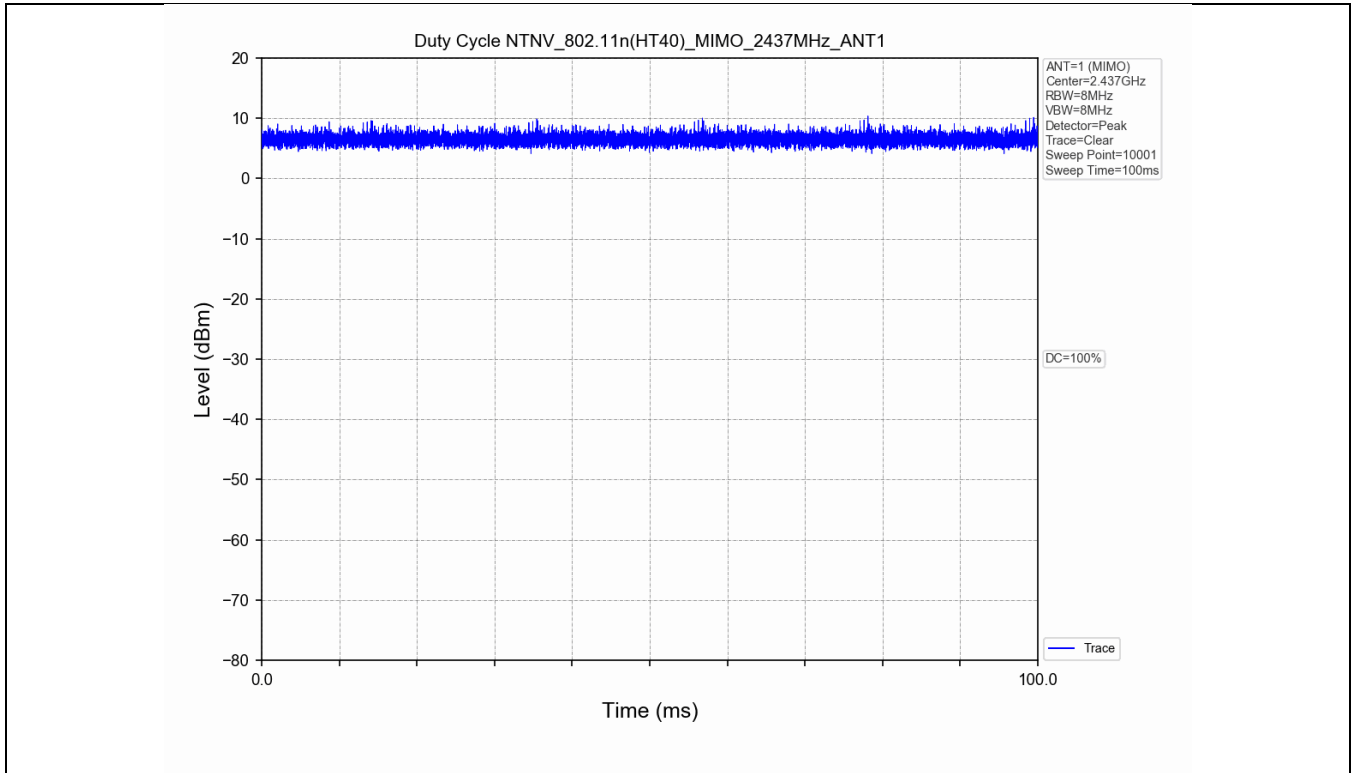
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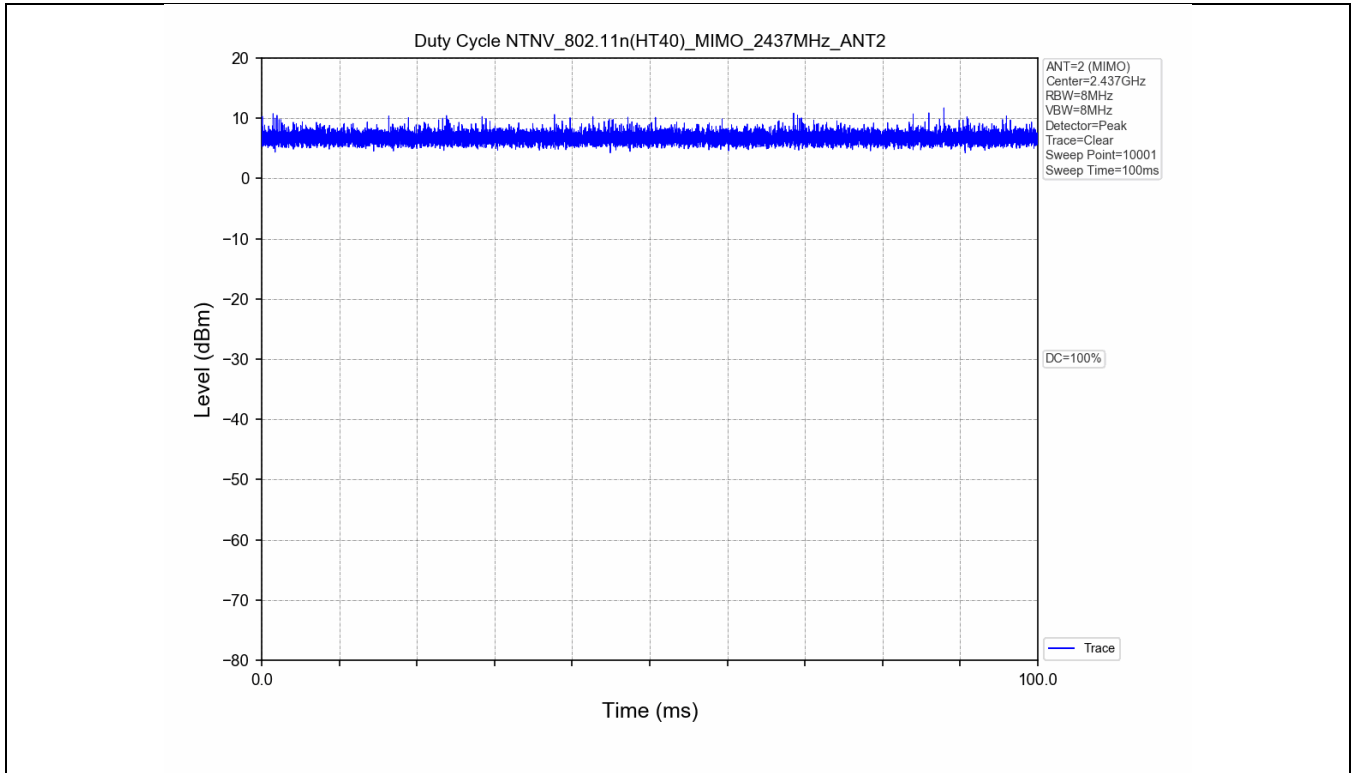
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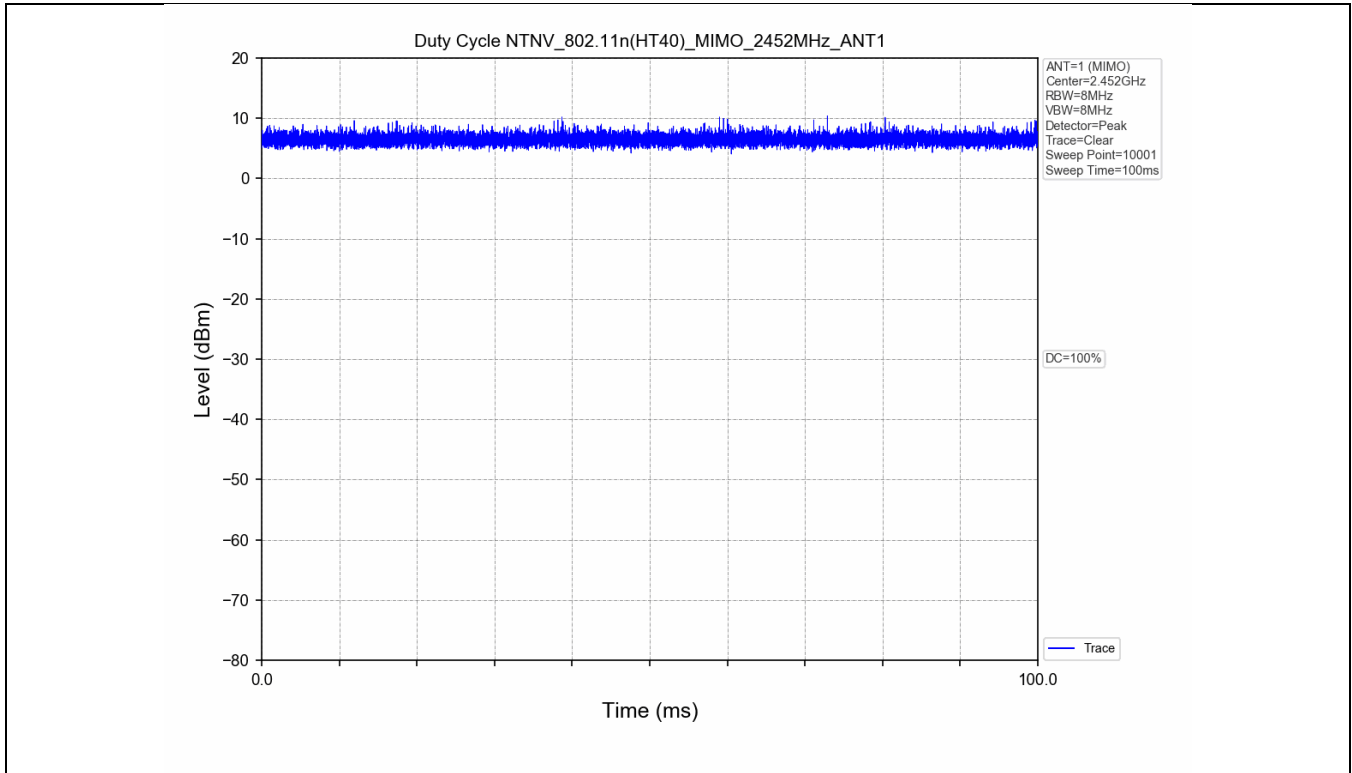
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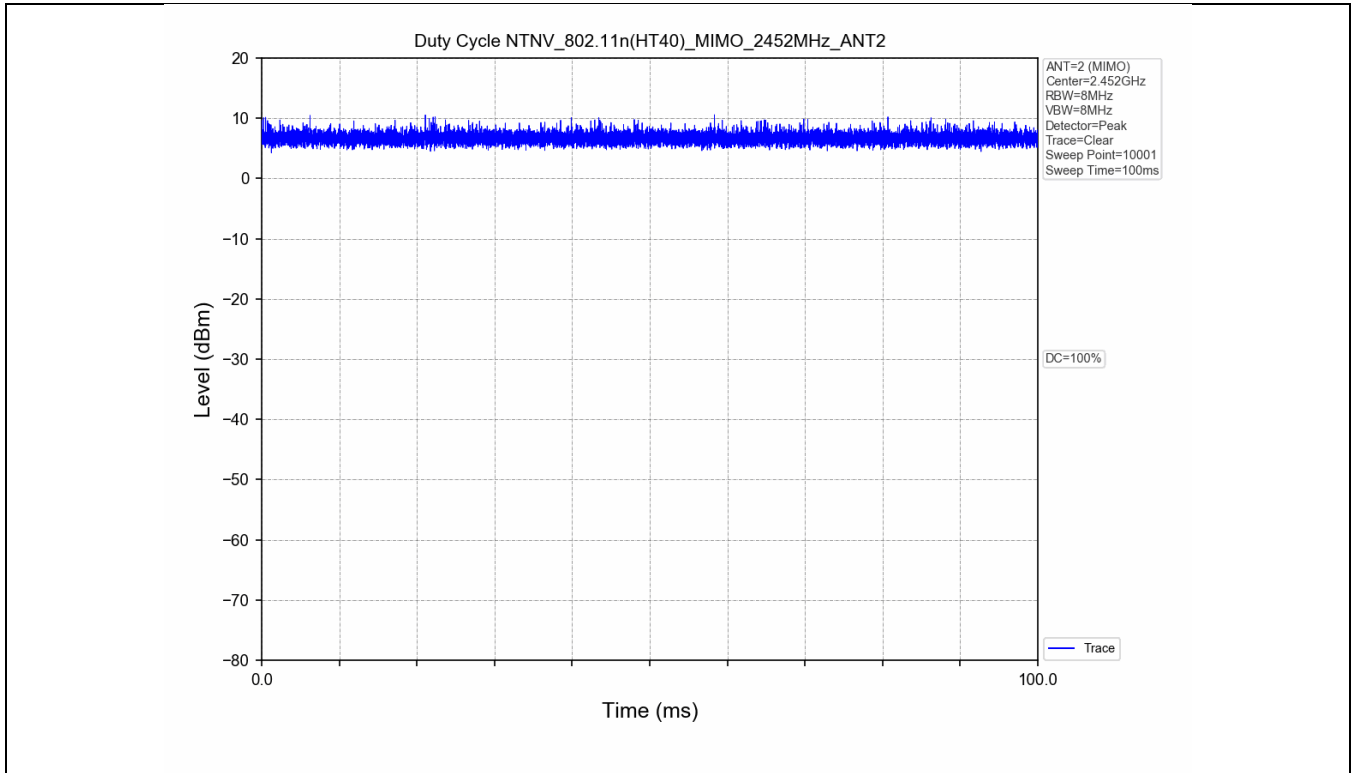
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## 2. Bandwidth

### 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	10.066	≥0.5	PASS
			2	10.093	≥0.5	PASS
	2437	SISO	1	10.080	≥0.5	PASS
			2	10.093	≥0.5	PASS
	2462	SISO	1	10.111	≥0.5	PASS
			2	10.063	≥0.5	PASS
802.11g	2412	SISO	1	16.392	≥0.5	PASS
			2	16.366	≥0.5	PASS
	2437	SISO	1	16.371	≥0.5	PASS
			2	16.403	≥0.5	PASS
	2462	SISO	1	16.373	≥0.5	PASS
			2	16.381	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.353	≥0.5	PASS
			2	17.549	≥0.5	PASS
	2437	MIMO	1	17.349	≥0.5	PASS
			2	17.526	≥0.5	PASS



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802.11n(HT40)	2462	MIMO	1	17.329	≥0.5	PASS
			2	17.554	≥0.5	PASS
	2422	MIMO	1	35.560	≥0.5	PASS
			2	35.358	≥0.5	PASS
	2437	MIMO	1	35.361	≥0.5	PASS
			2	35.381	≥0.5	PASS
2452	MIMO	1	36.433	≥0.5	PASS	
		2	36.433	≥0.5	PASS	

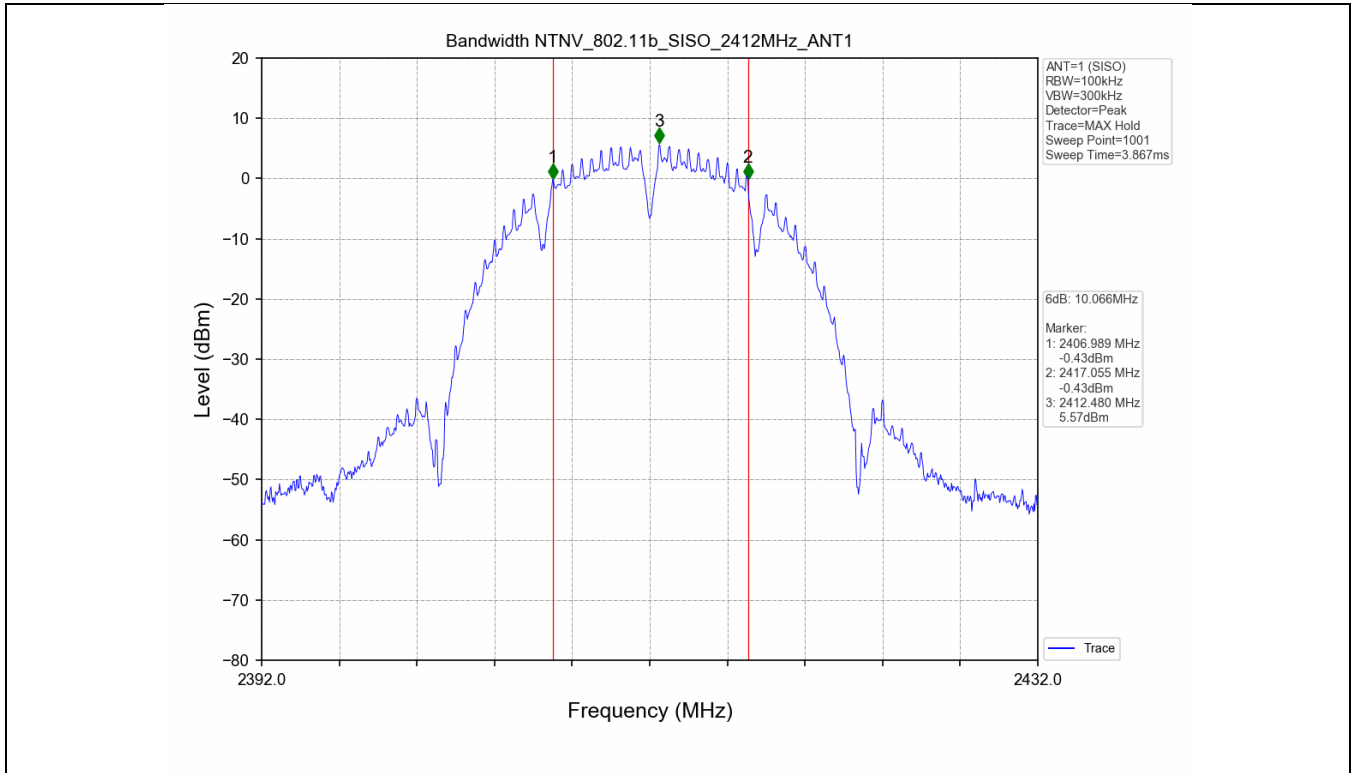
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	14.872	Only for Report Use
			2	14.873	Only for Report Use
	2437	SISO	1	14.877	Only for Report Use
			2	14.825	Only for Report Use
	2462	SISO	1	14.858	Only for Report Use
			2	14.835	Only for Report Use
802.11g	2412	SISO	1	16.815	Only for Report Use
			2	16.794	Only for Report Use
	2437	SISO	1	16.797	Only for Report Use
			2	16.698	Only for Report Use
	2462	SISO	1	16.821	Only for Report Use
			2	16.808	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.910	Only for Report Use
			2	17.903	Only for Report Use
	2437	MIMO	1	17.834	Only for Report Use
			2	17.807	Only for Report Use
	2462	MIMO	1	17.838	Only for Report Use
			2	17.840	Only for Report Use
802.11n(HT40)	2422	MIMO	1	35.975	Only for Report Use
			2	35.940	Only for Report Use
	2437	MIMO	1	36.016	Only for Report Use
			2	35.951	Only for Report Use
	2452	MIMO	1	35.944	Only for Report Use
			2	35.955	Only for Report Use

## 2.2 Test Graph - 6dB Bandwidth



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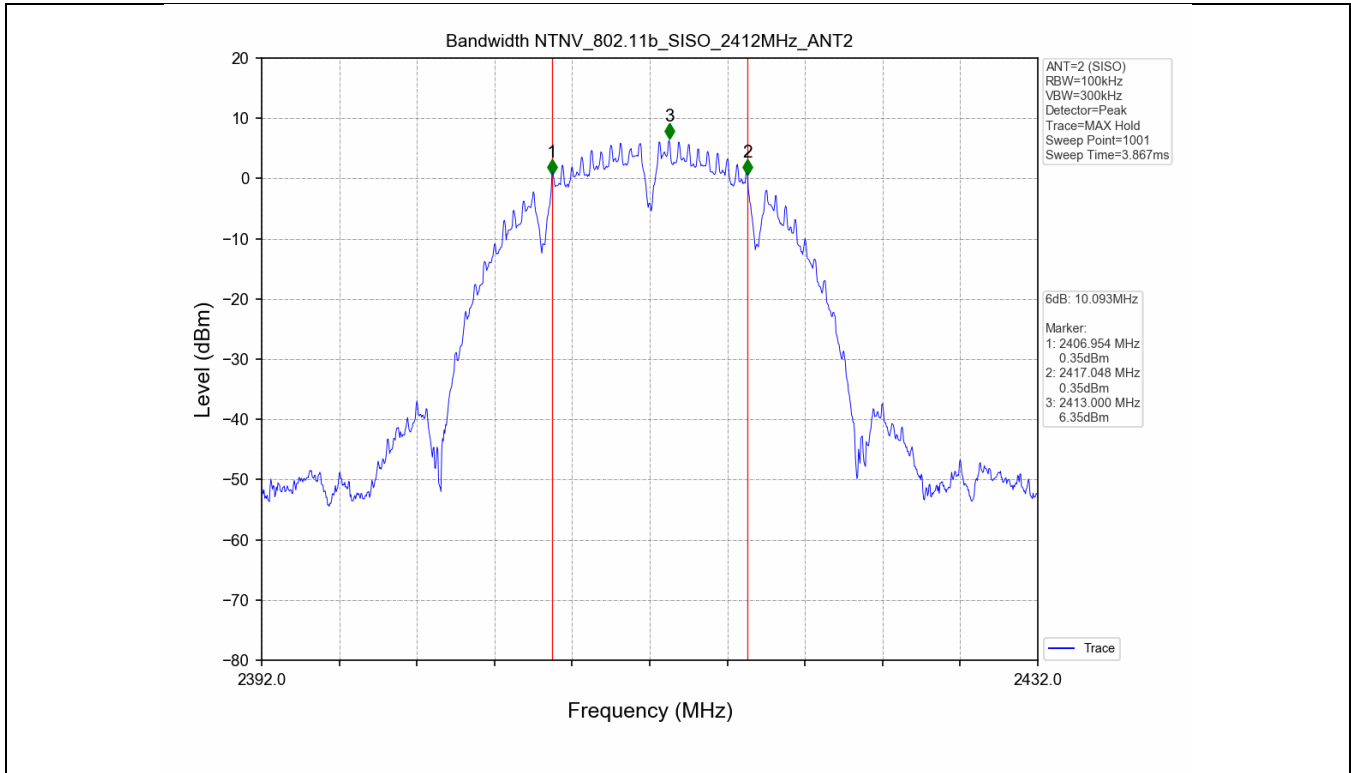
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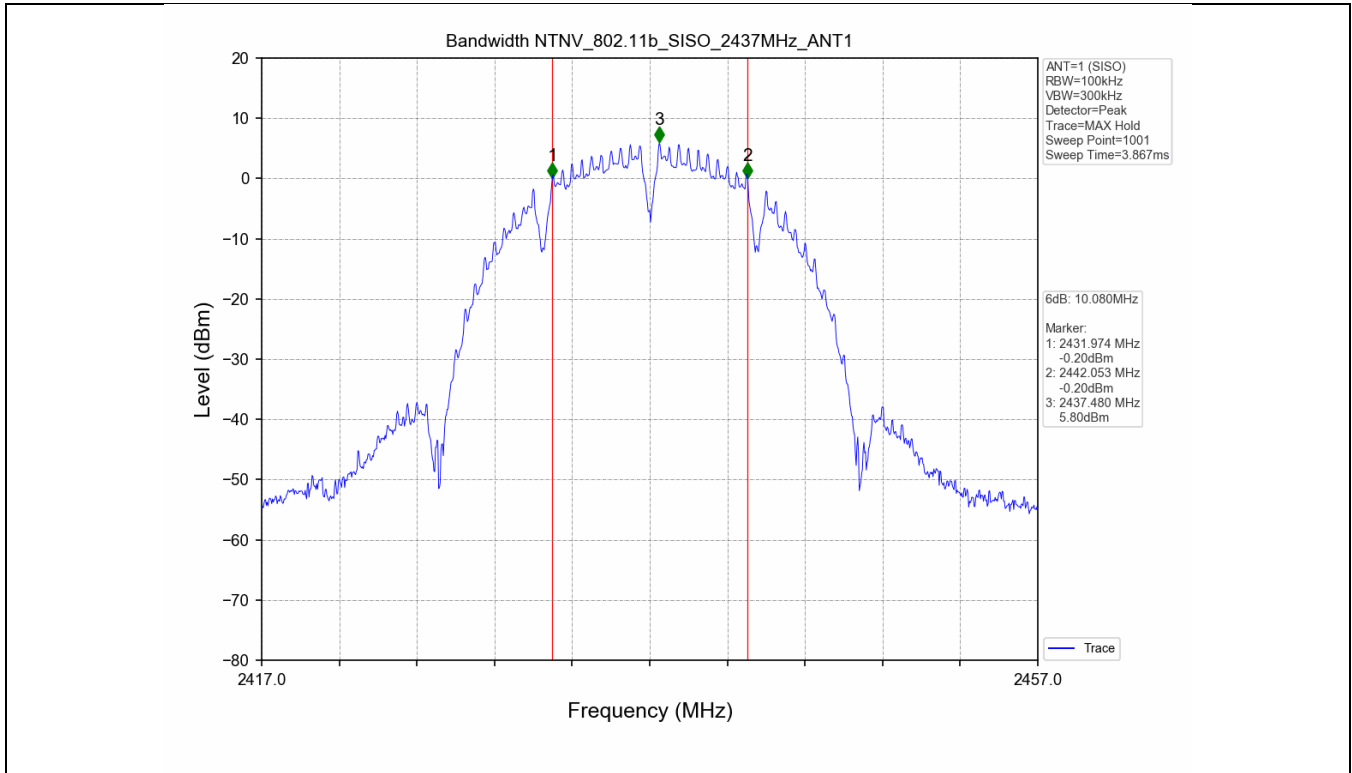
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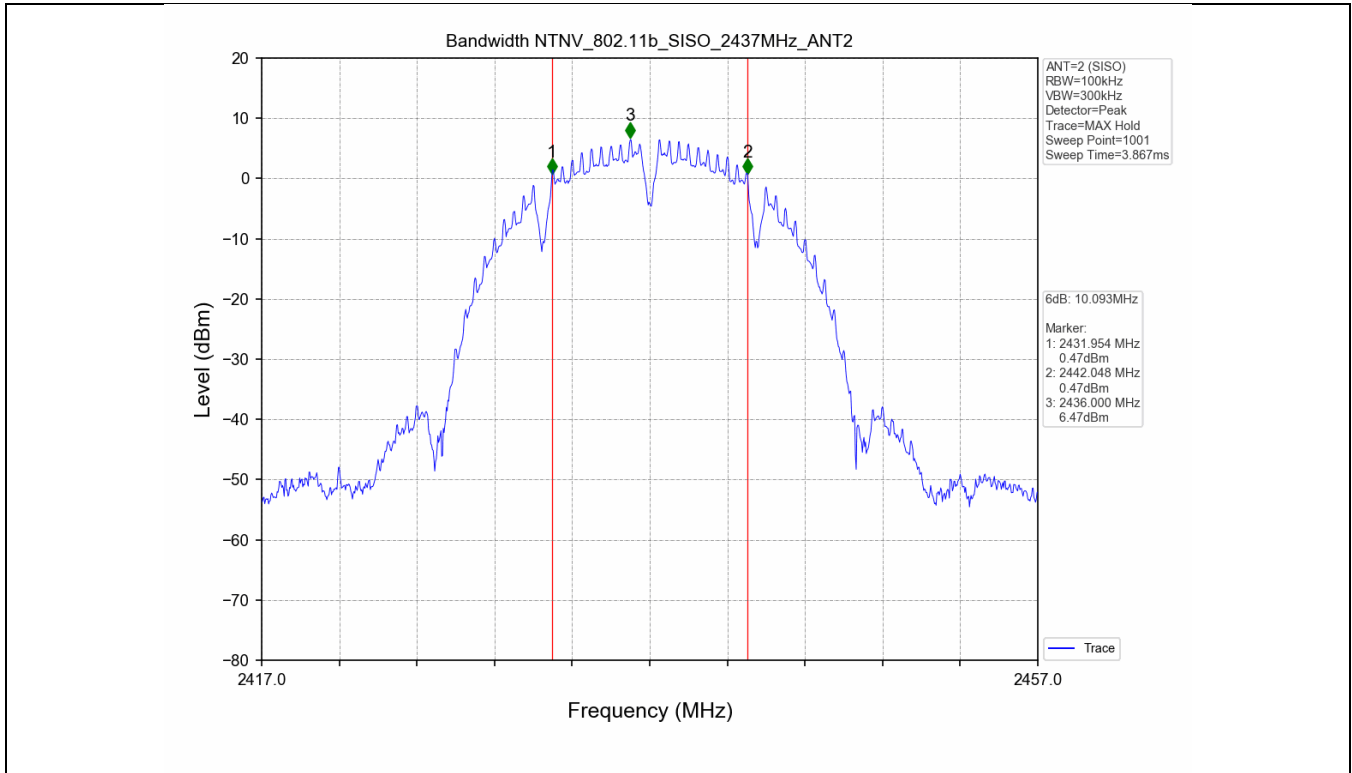
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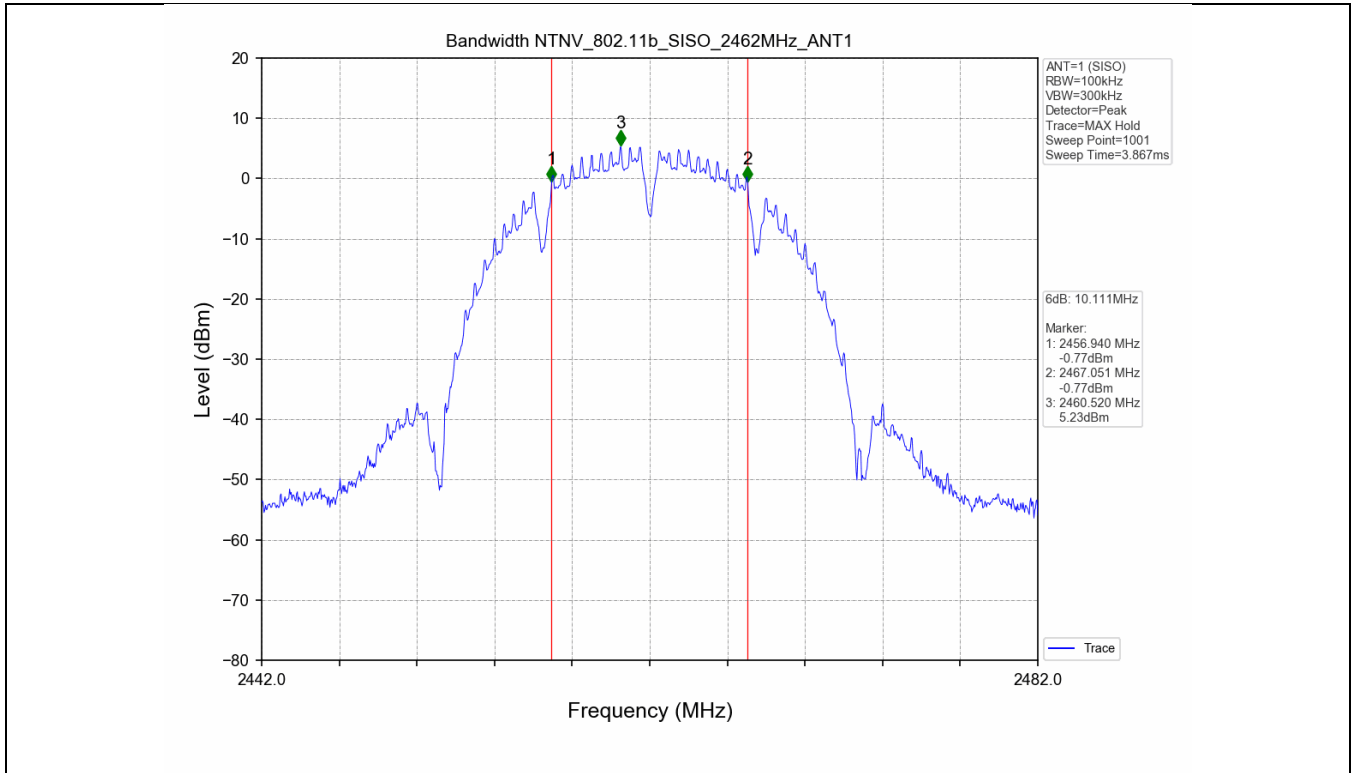
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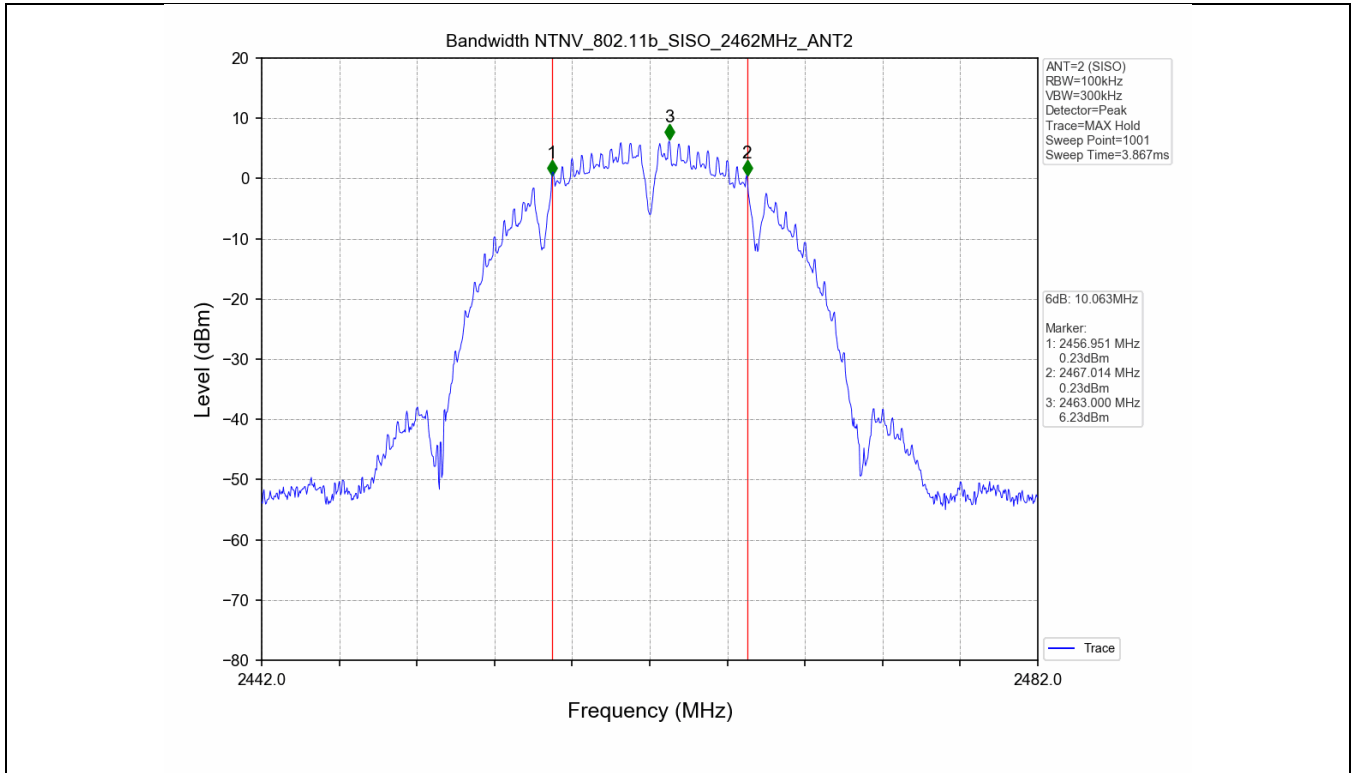
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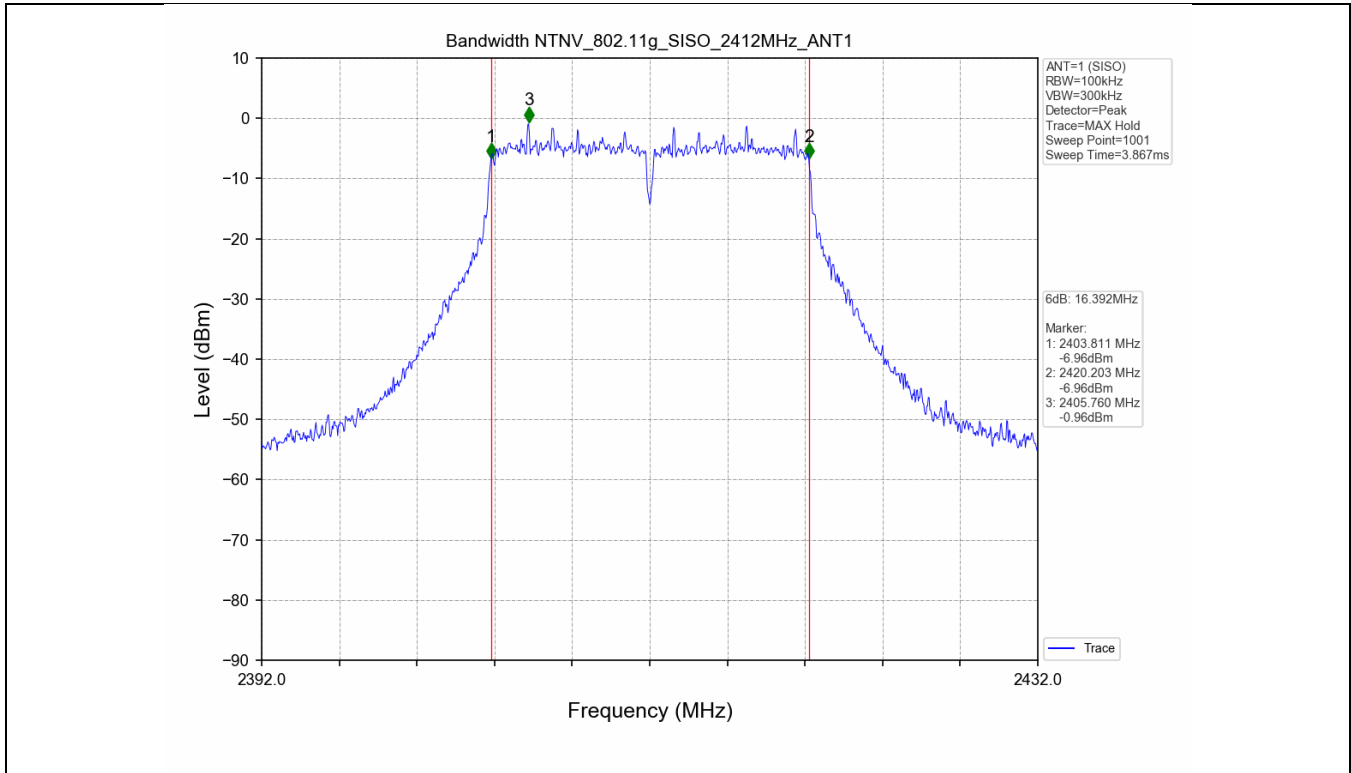
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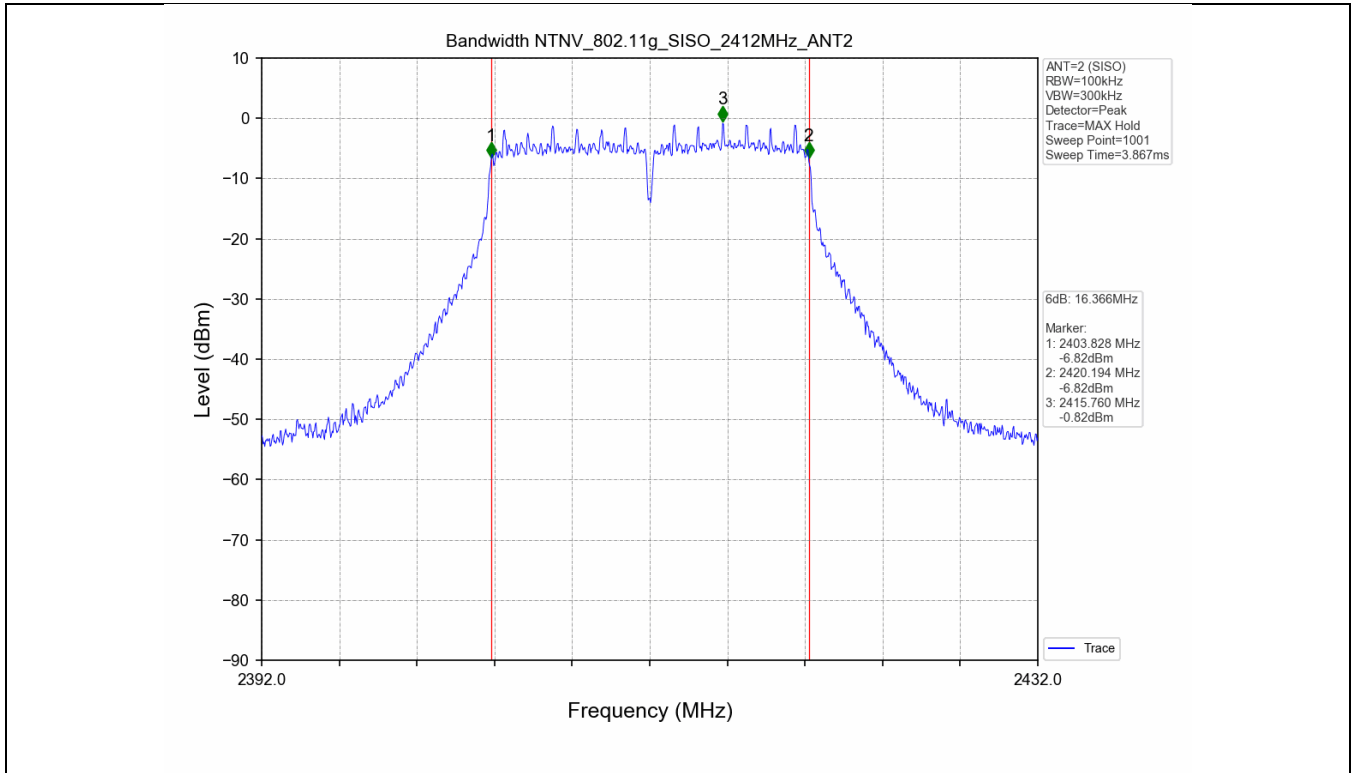


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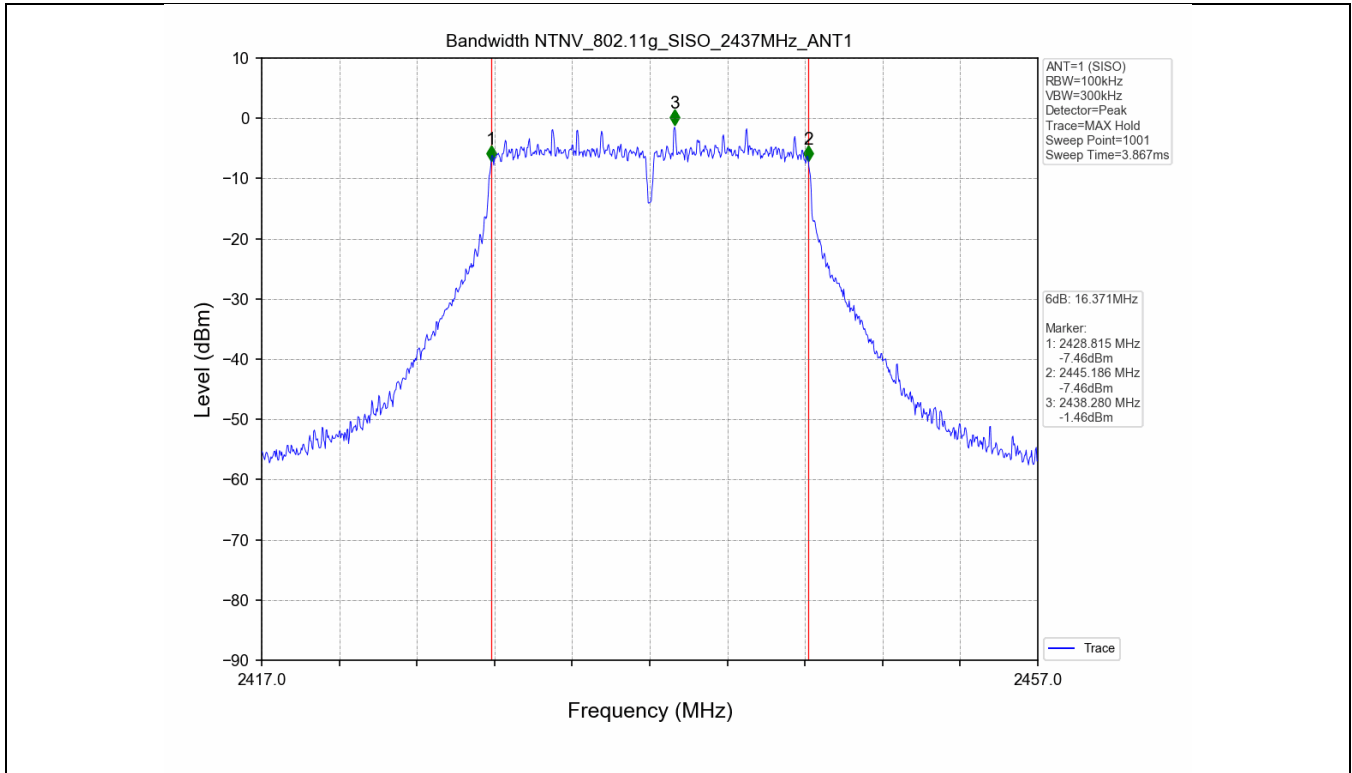
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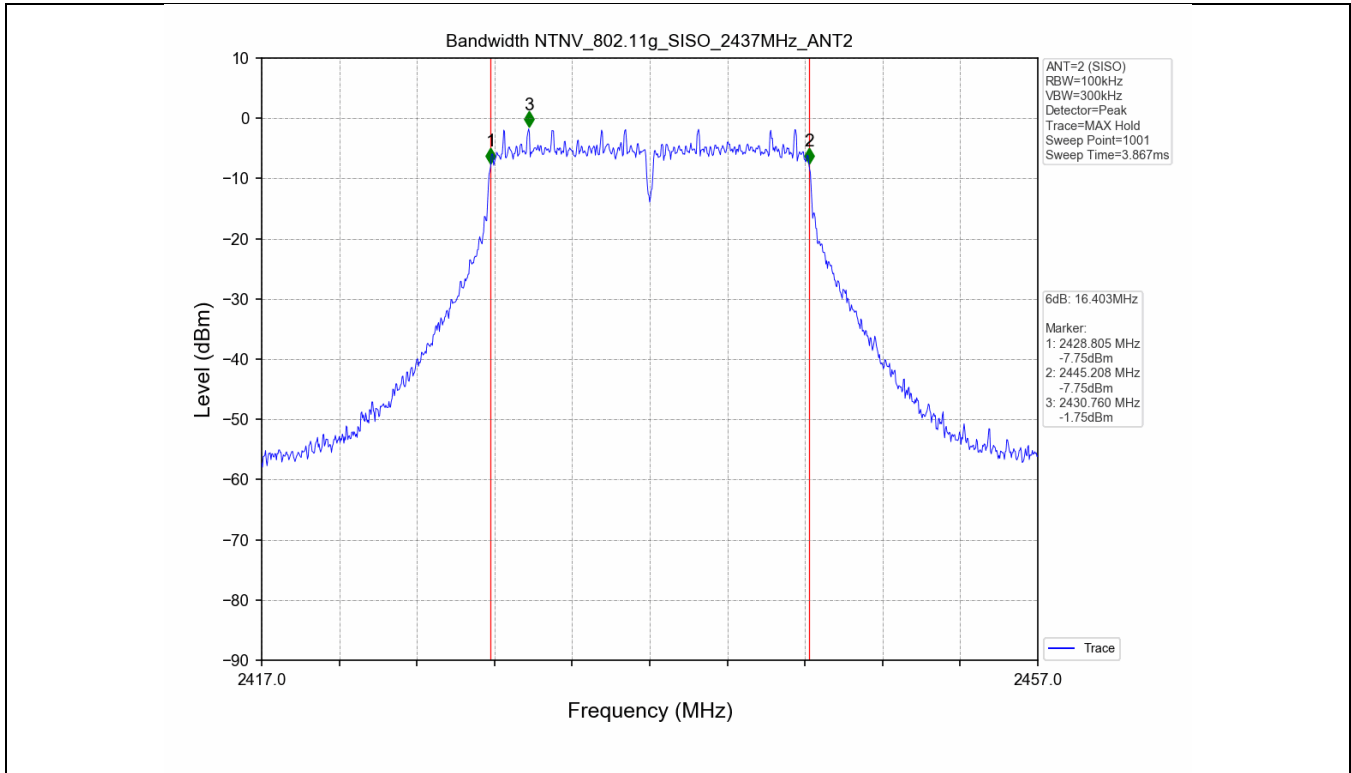
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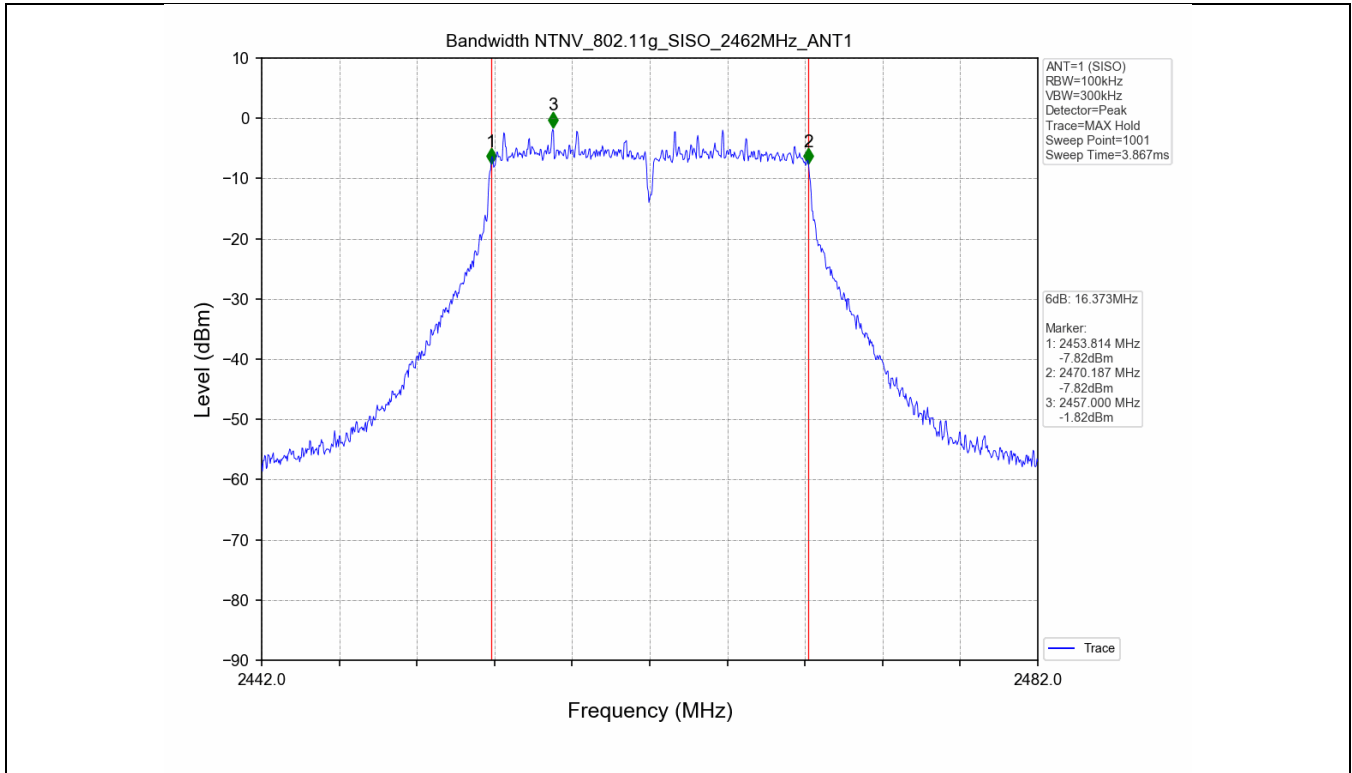
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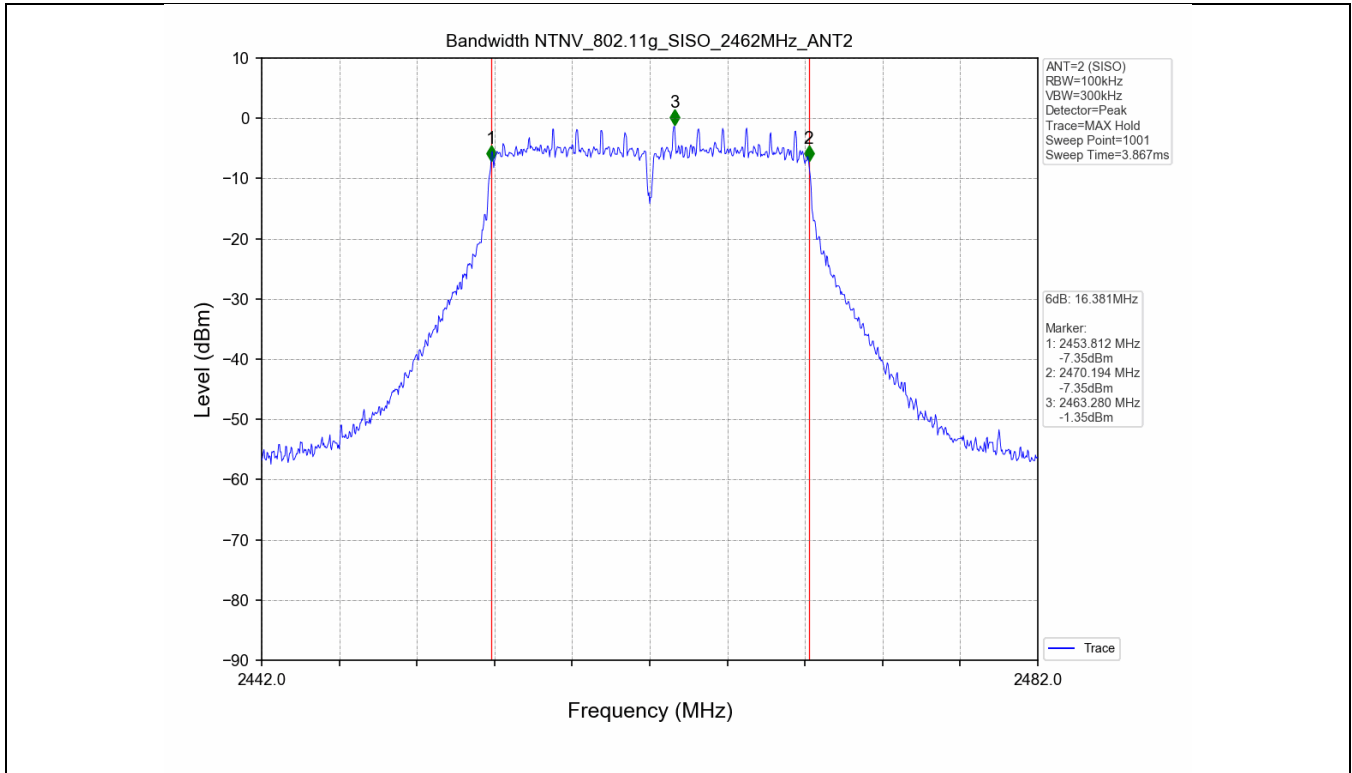
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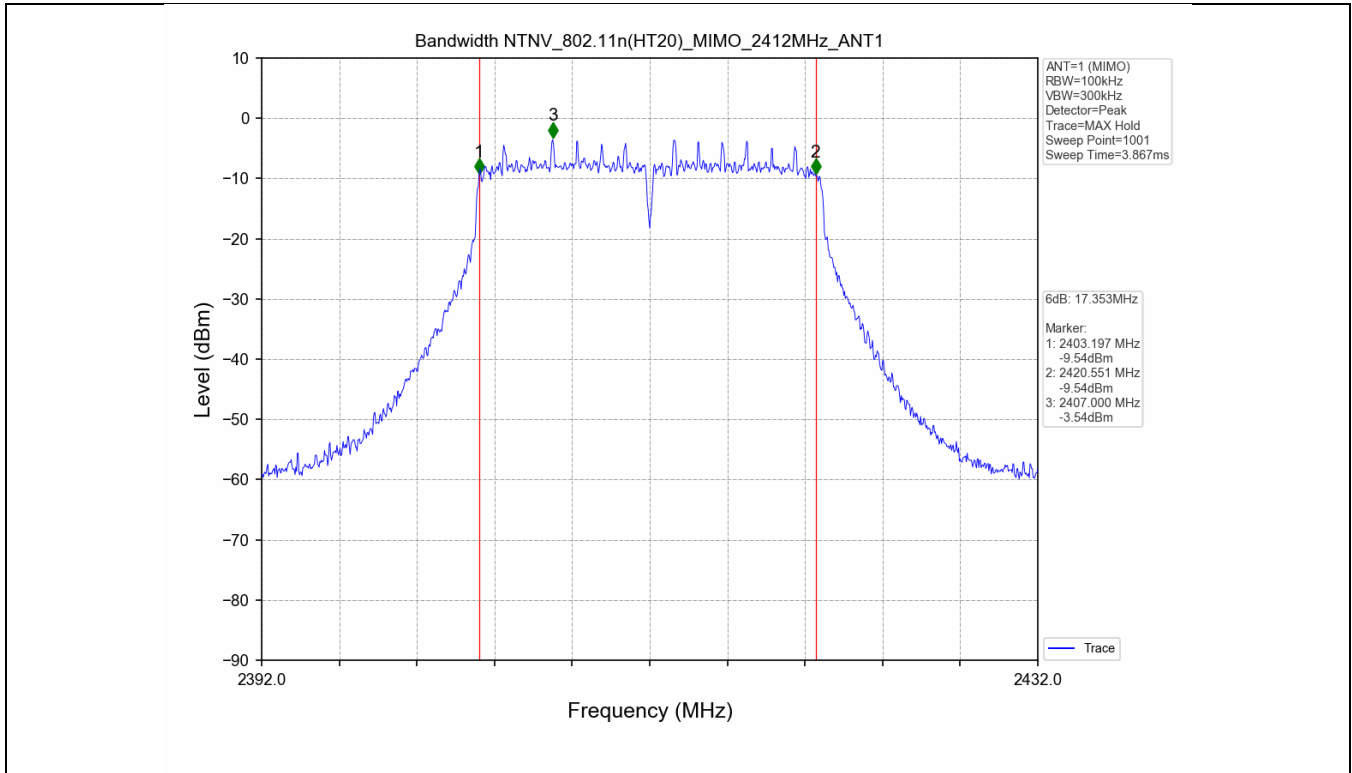


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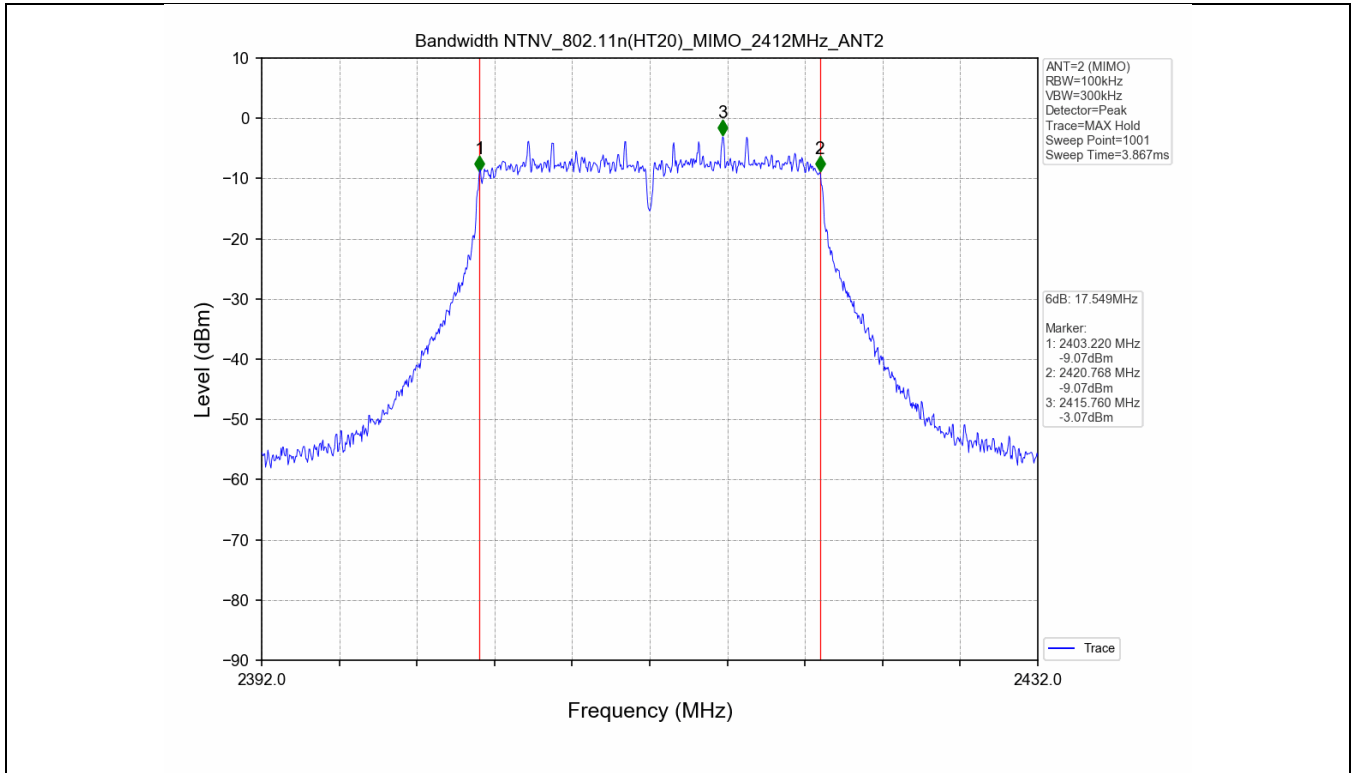




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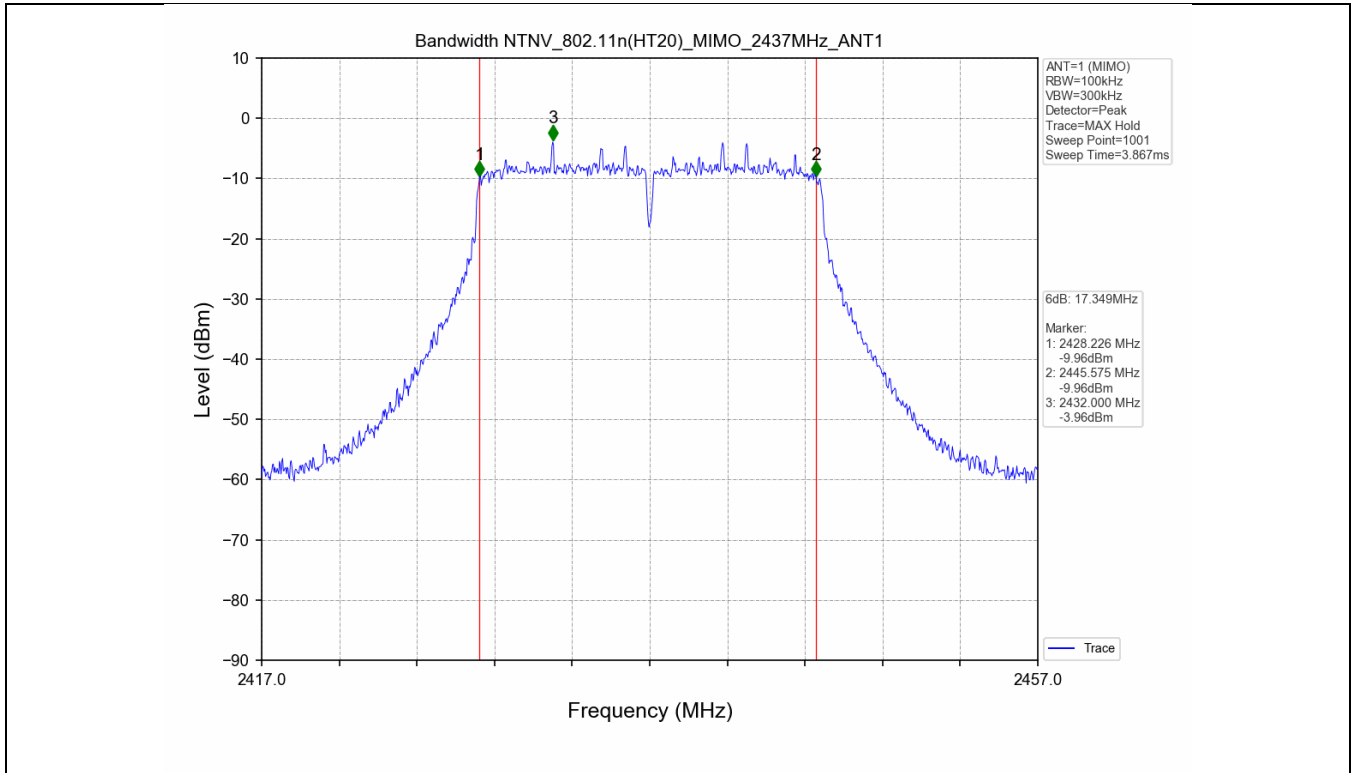
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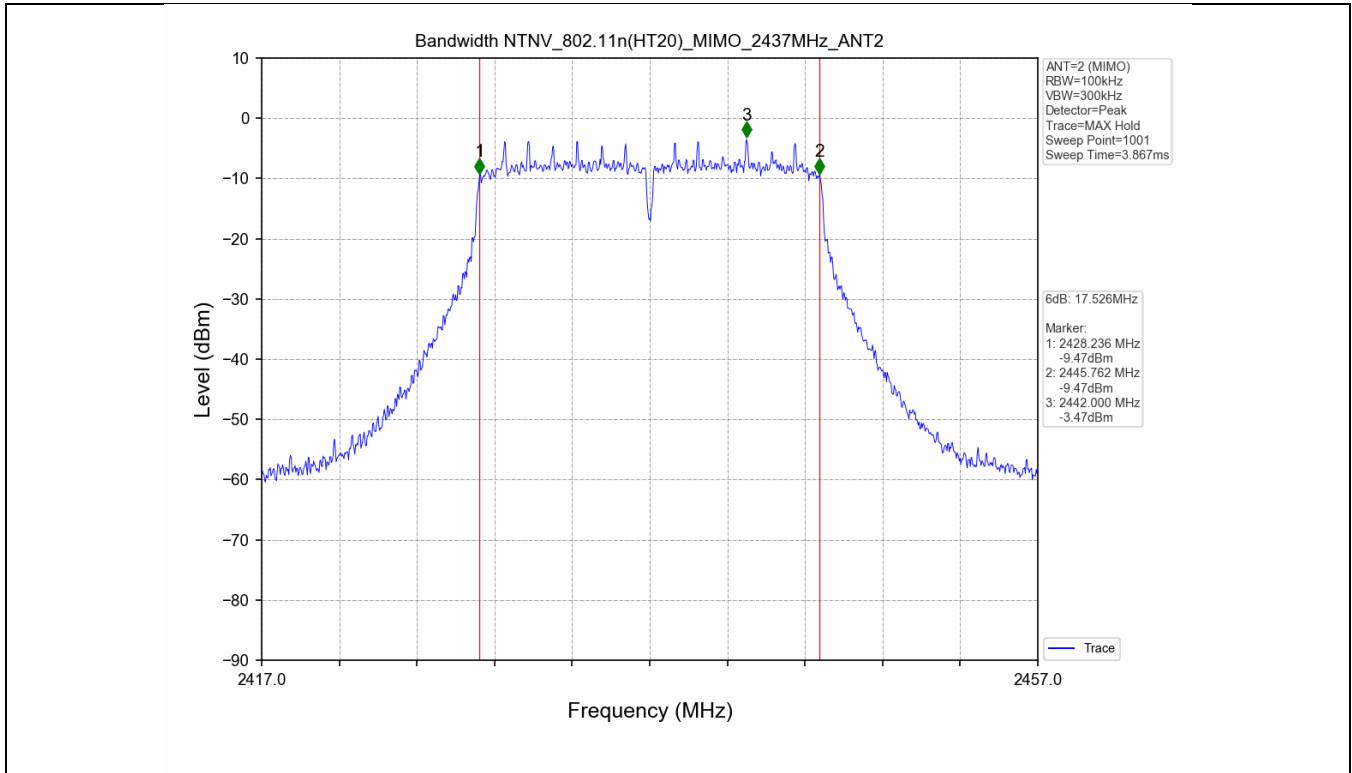
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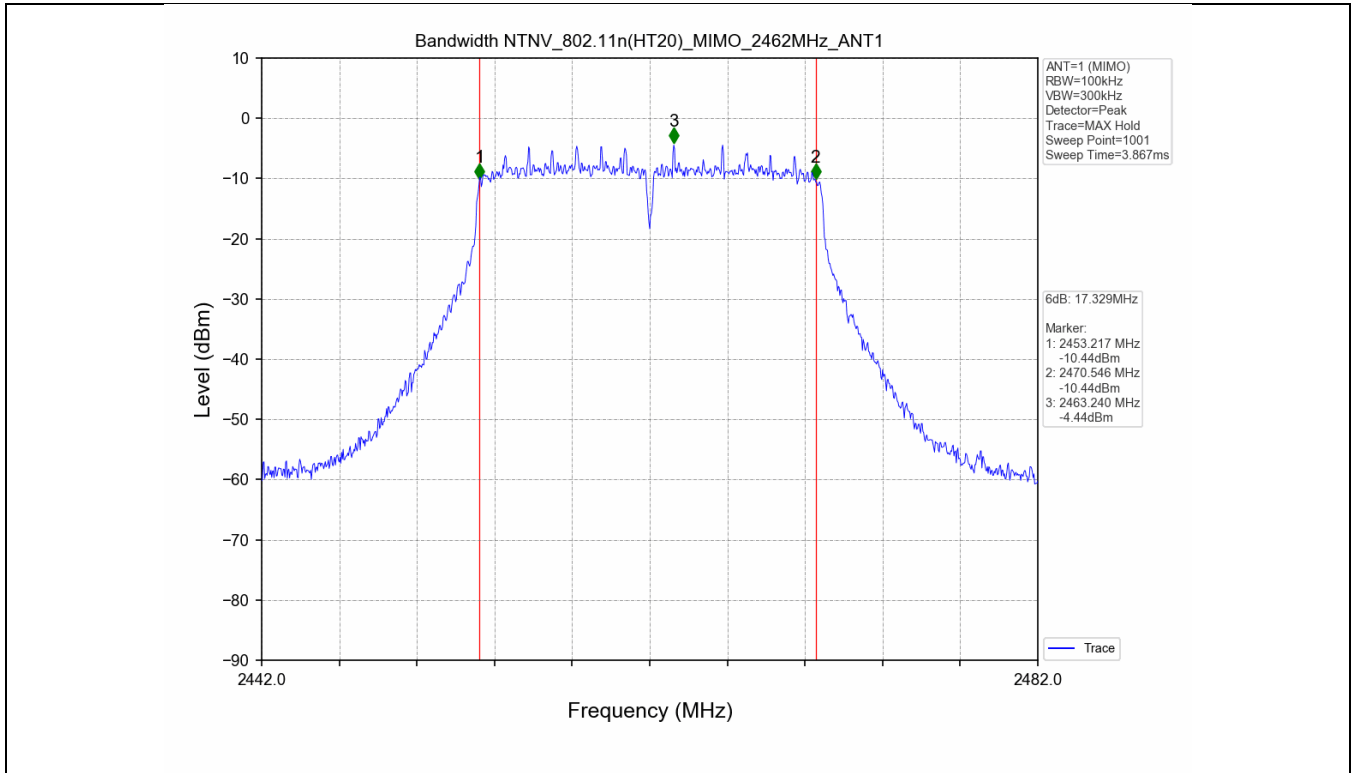
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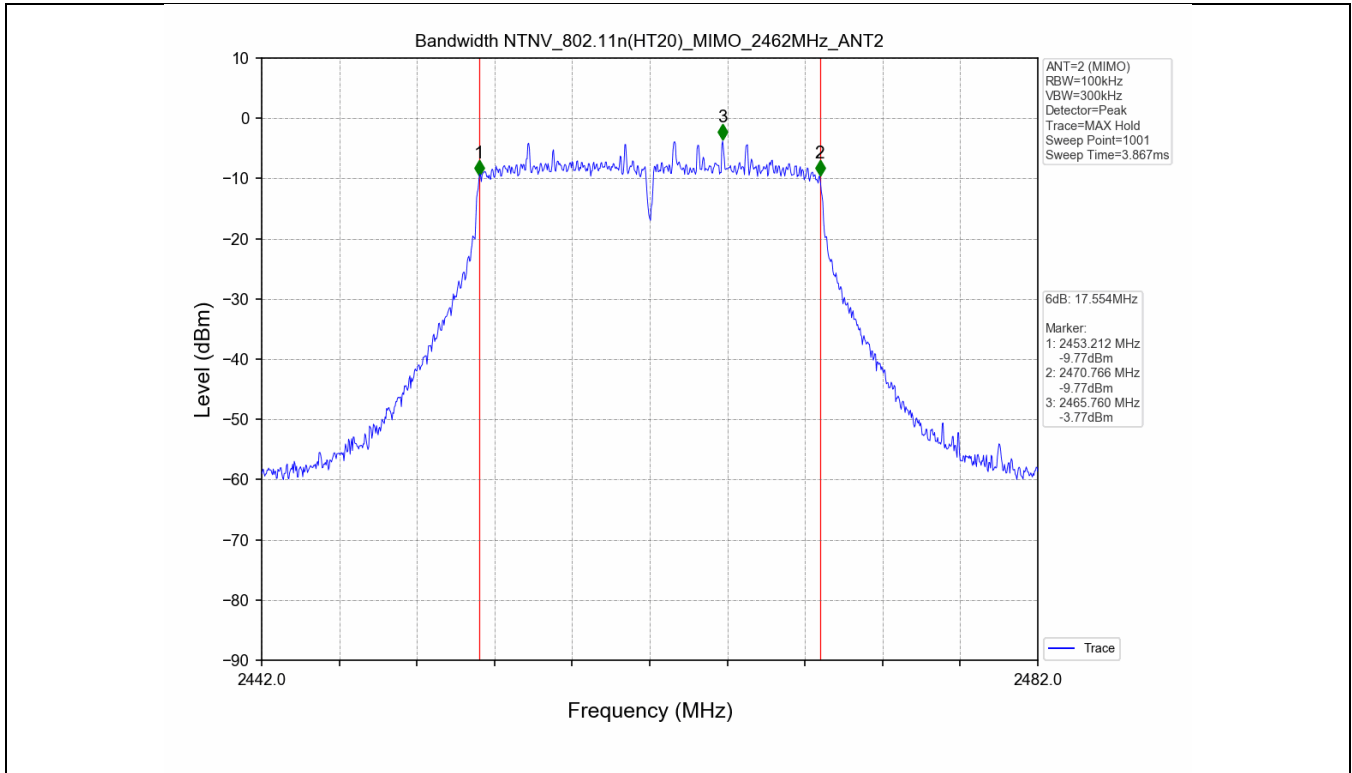


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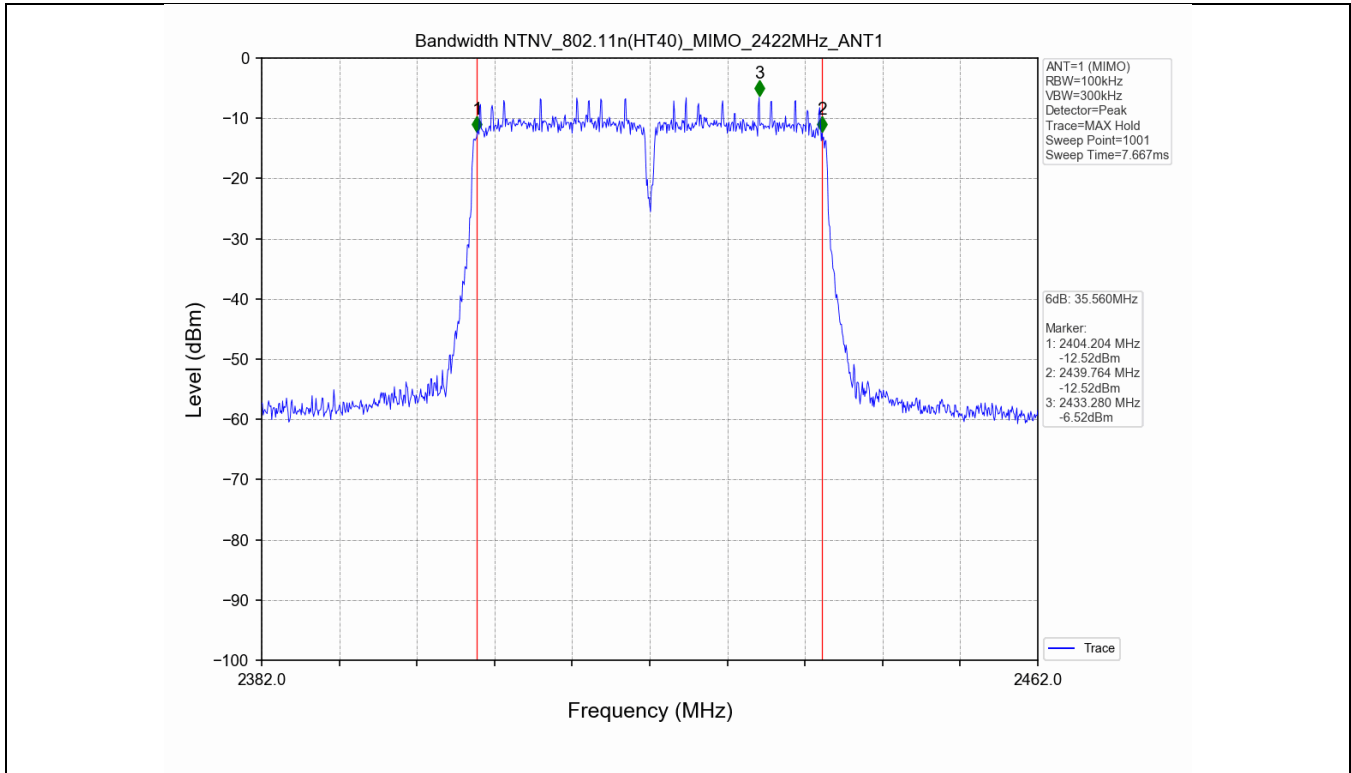




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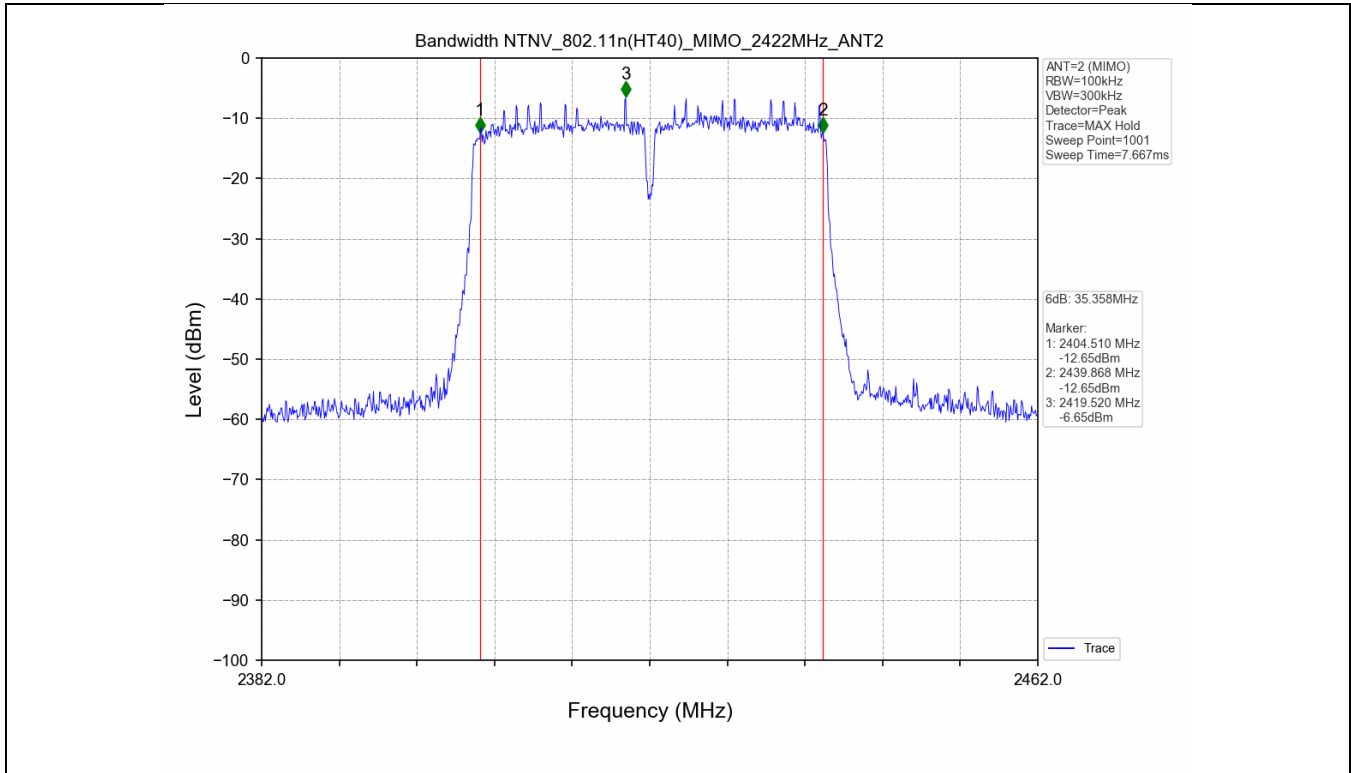
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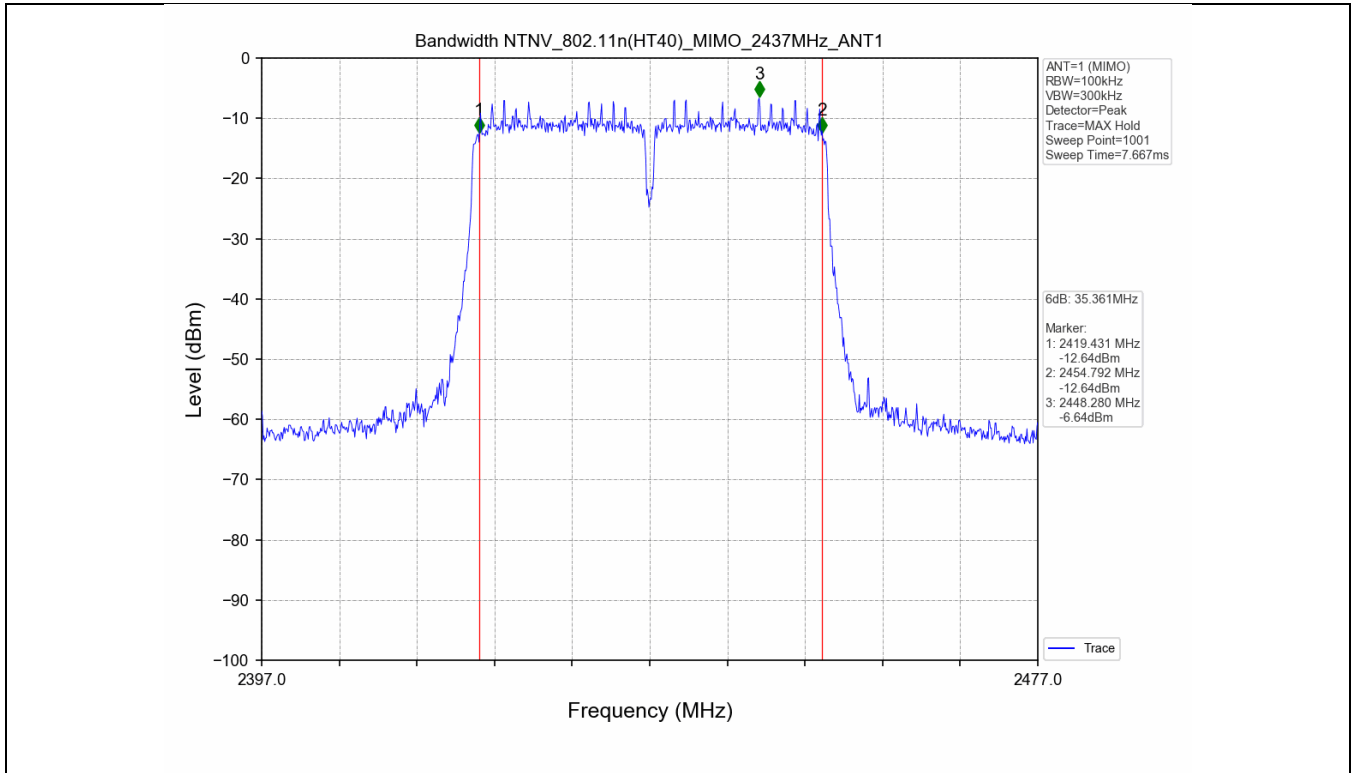
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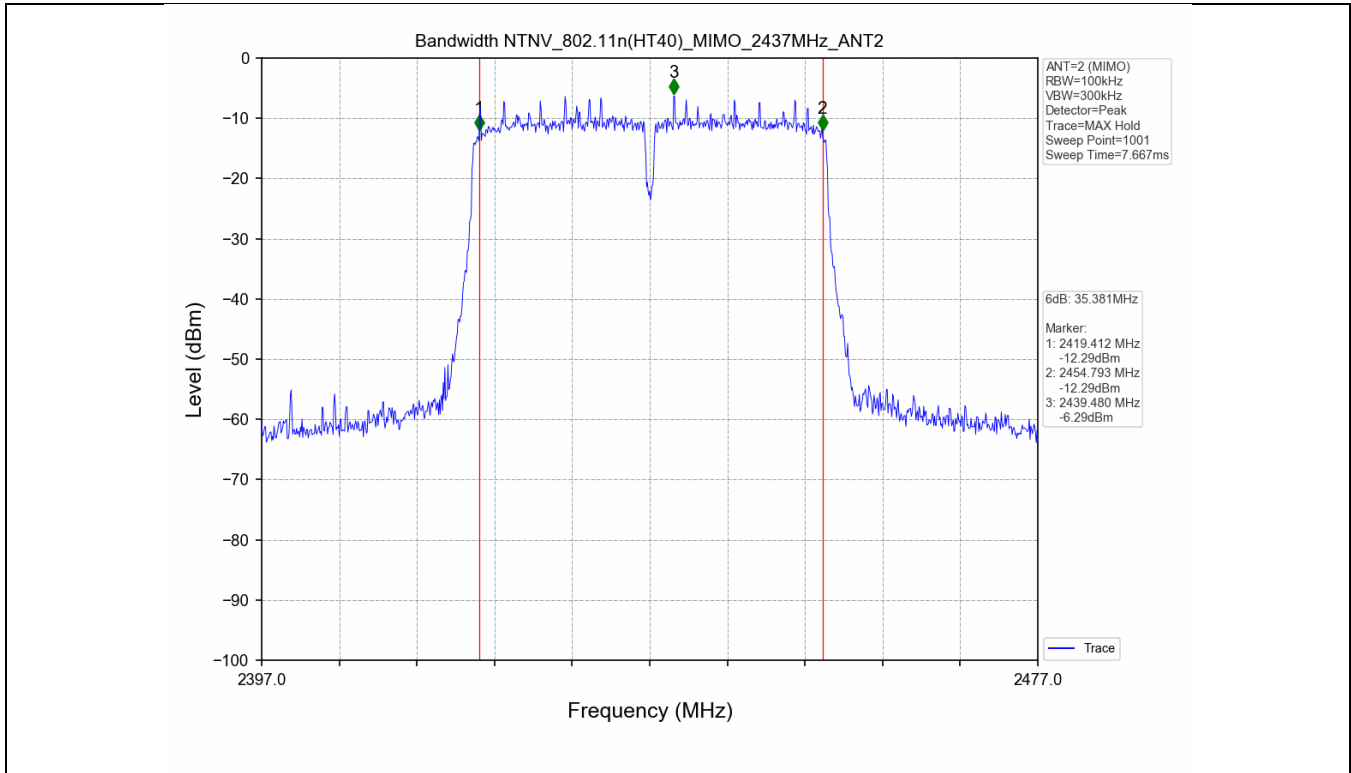
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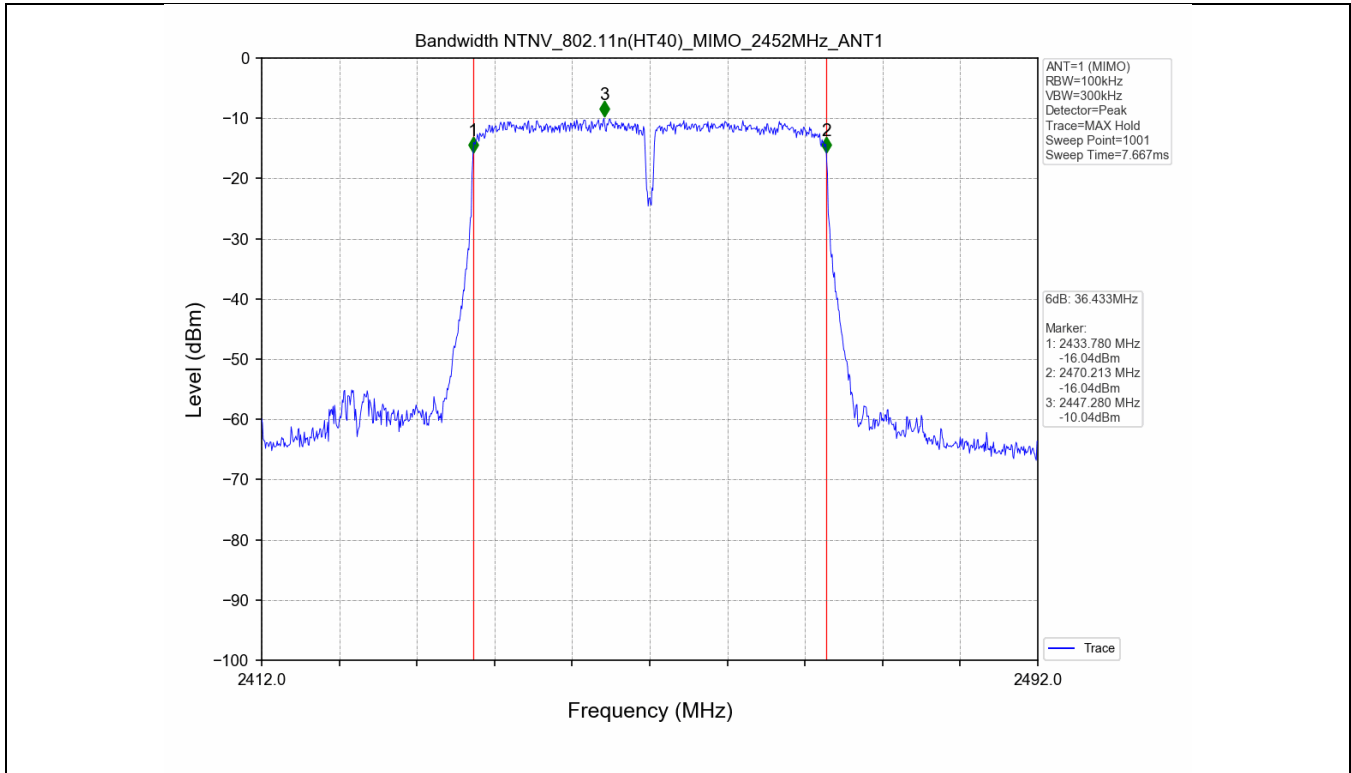


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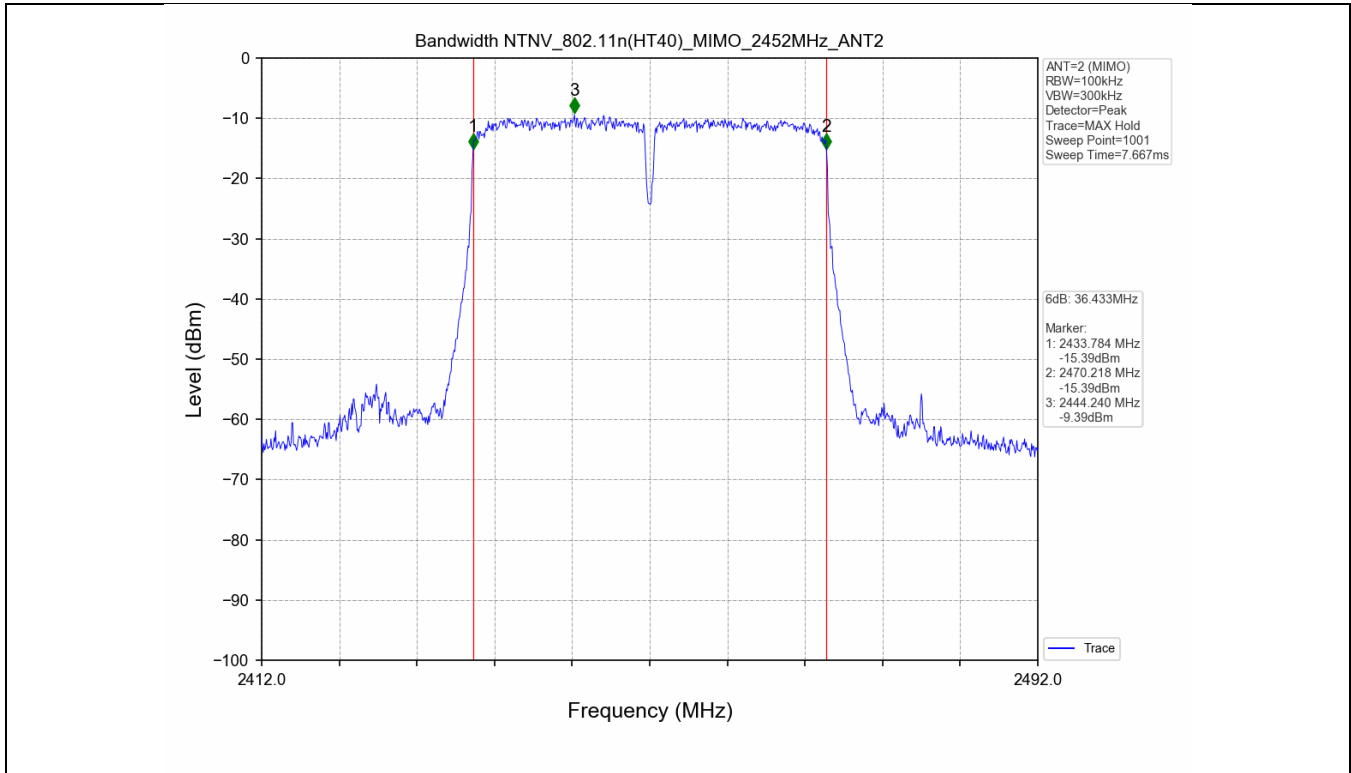




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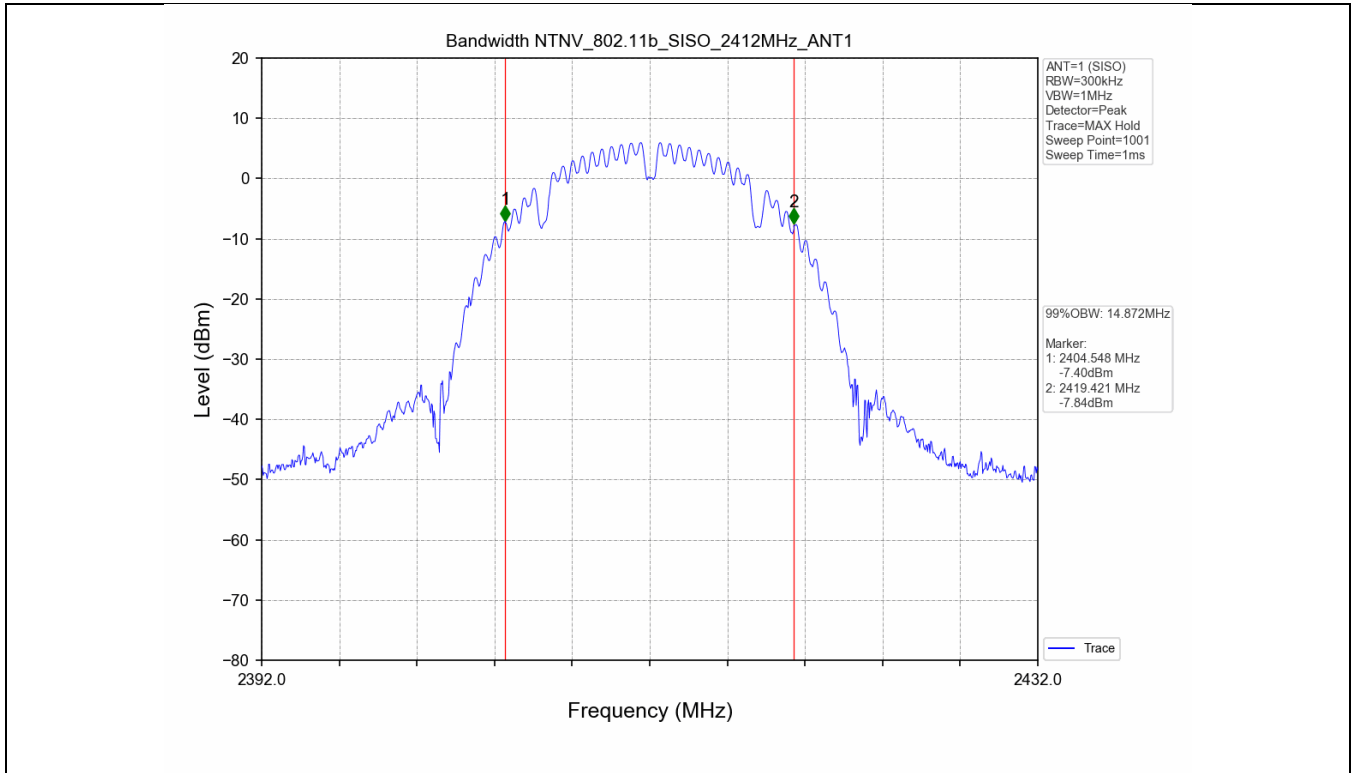
### 2.3 Test Graph - 99% Occupied Bandwidth



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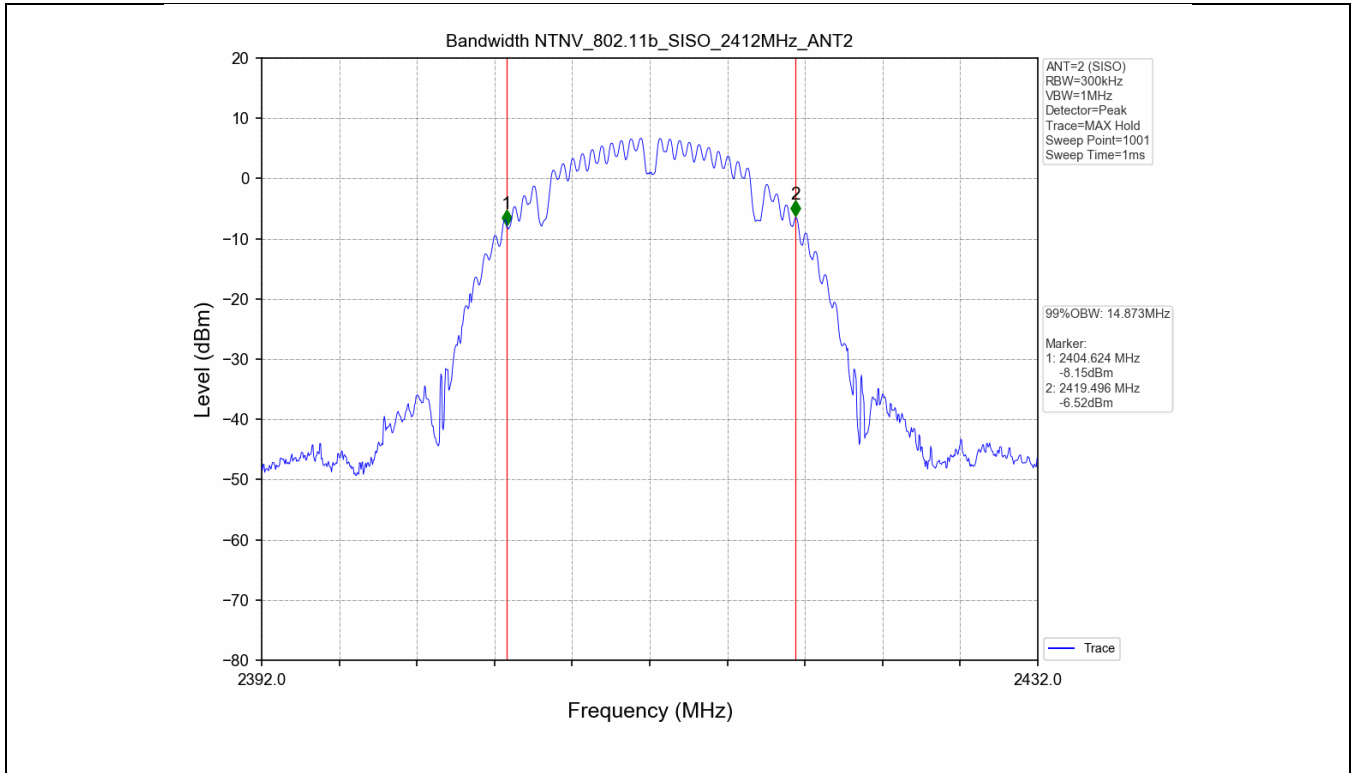
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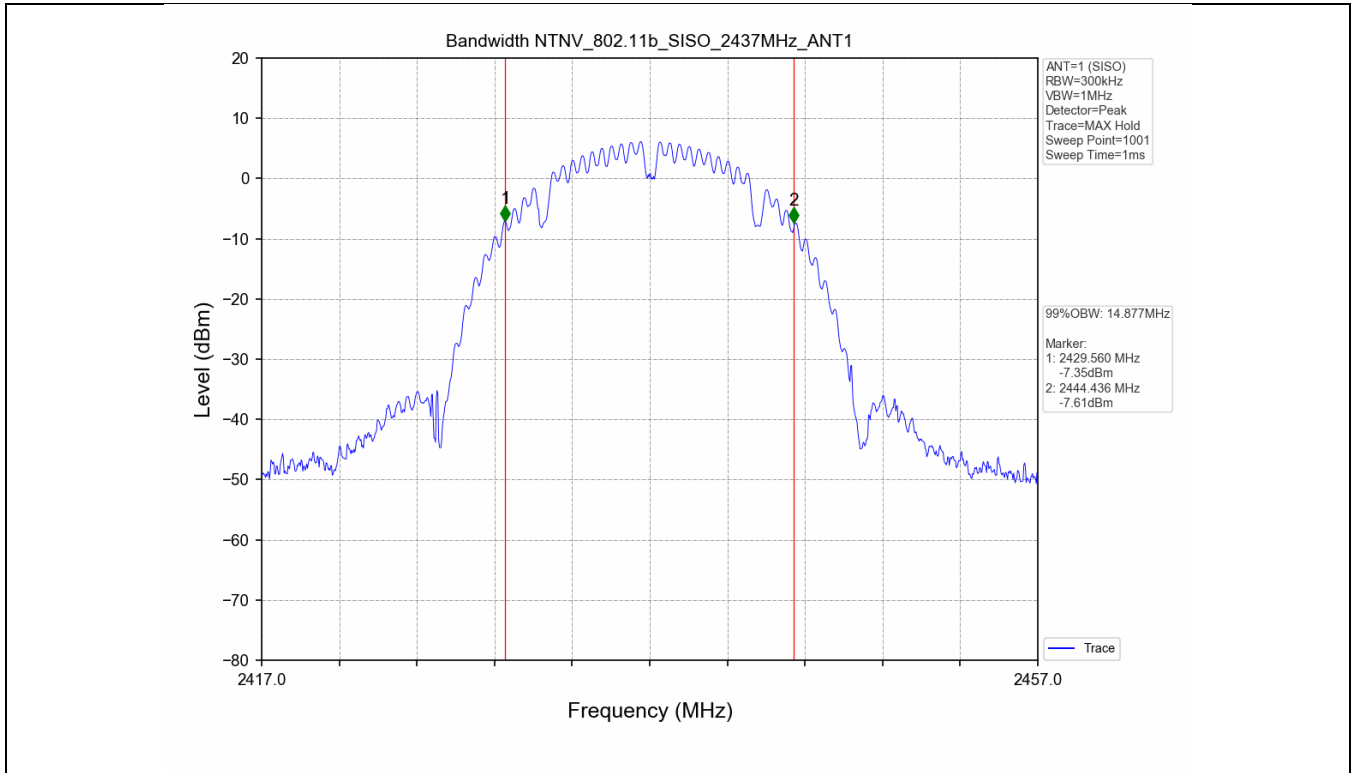
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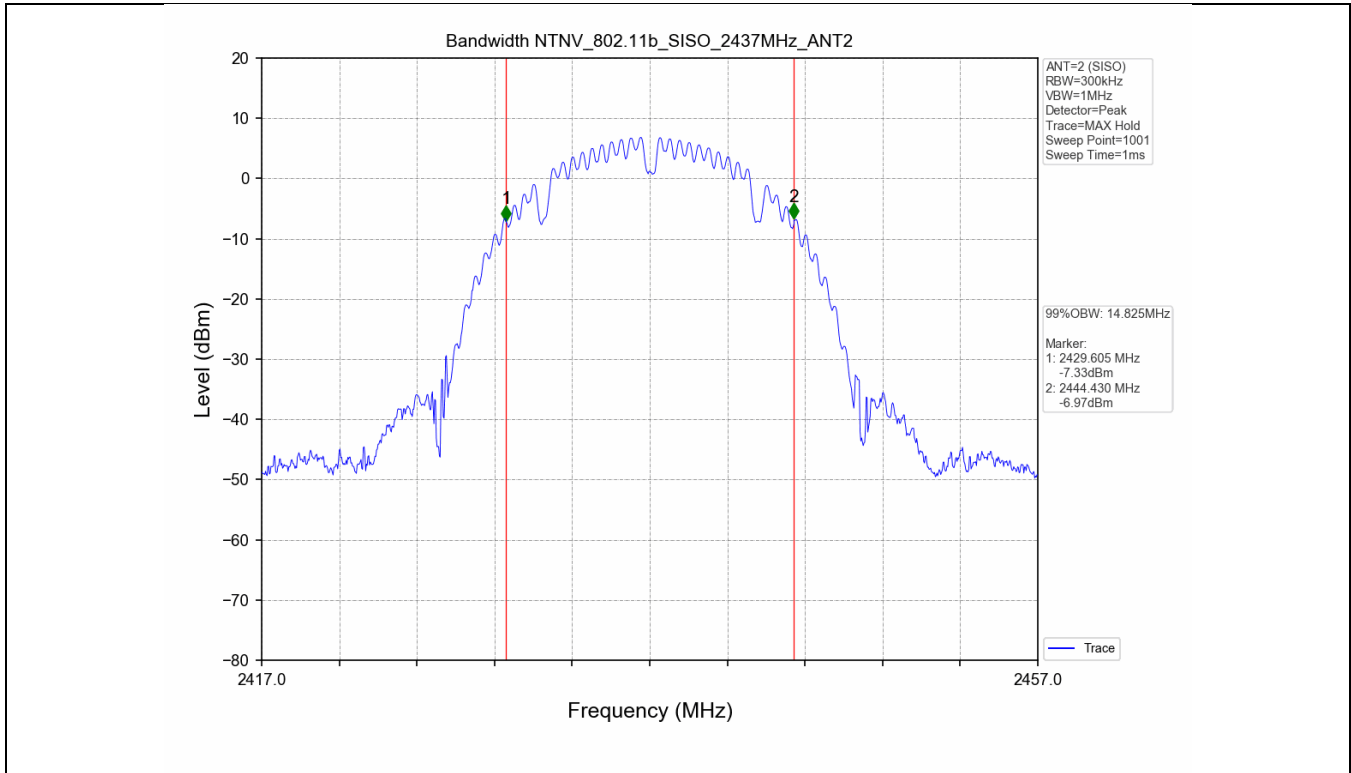


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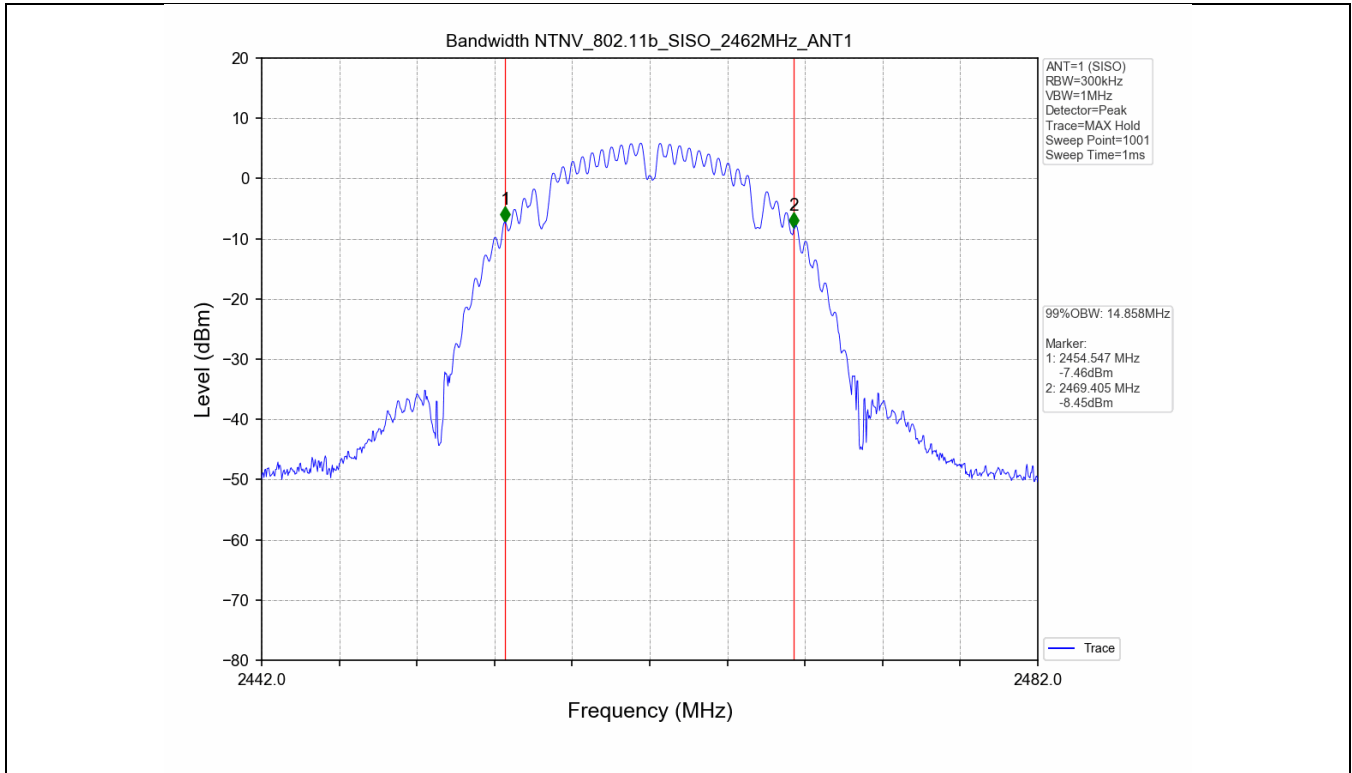




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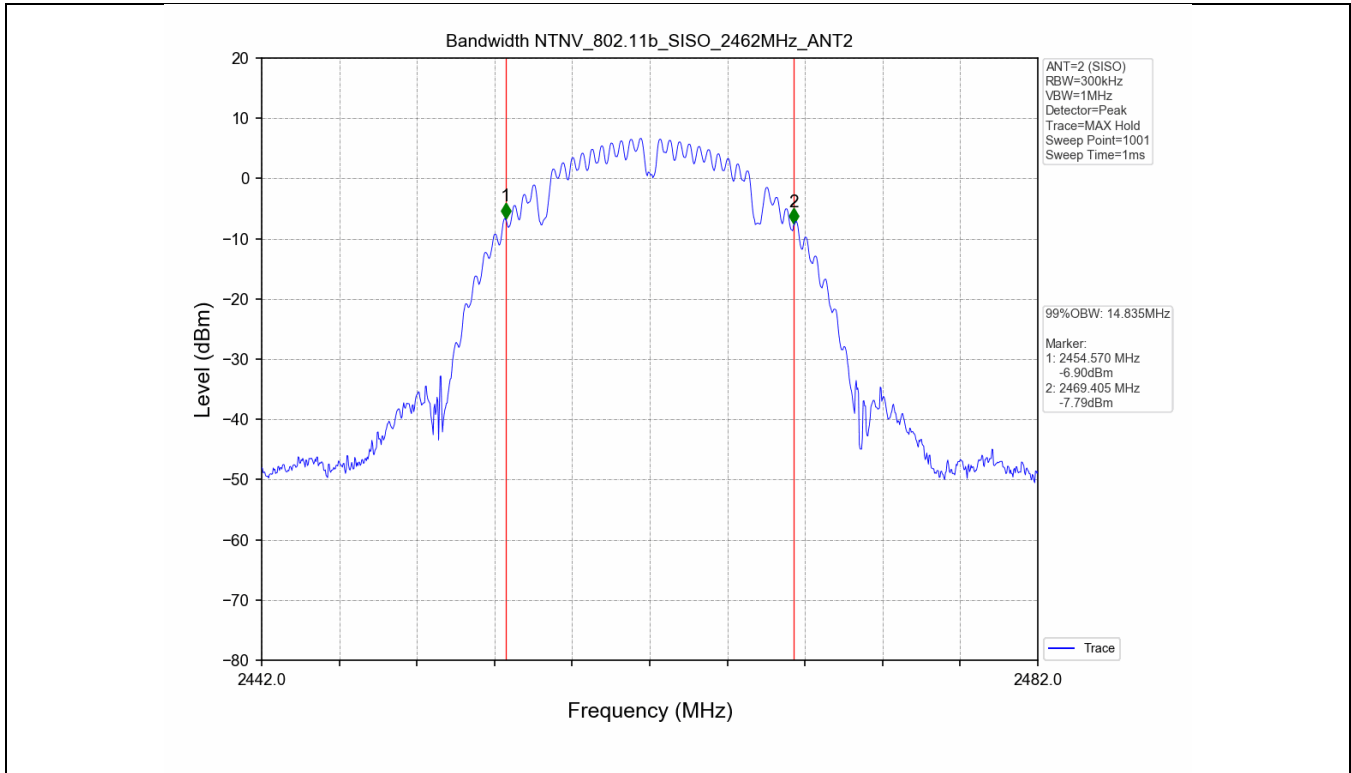
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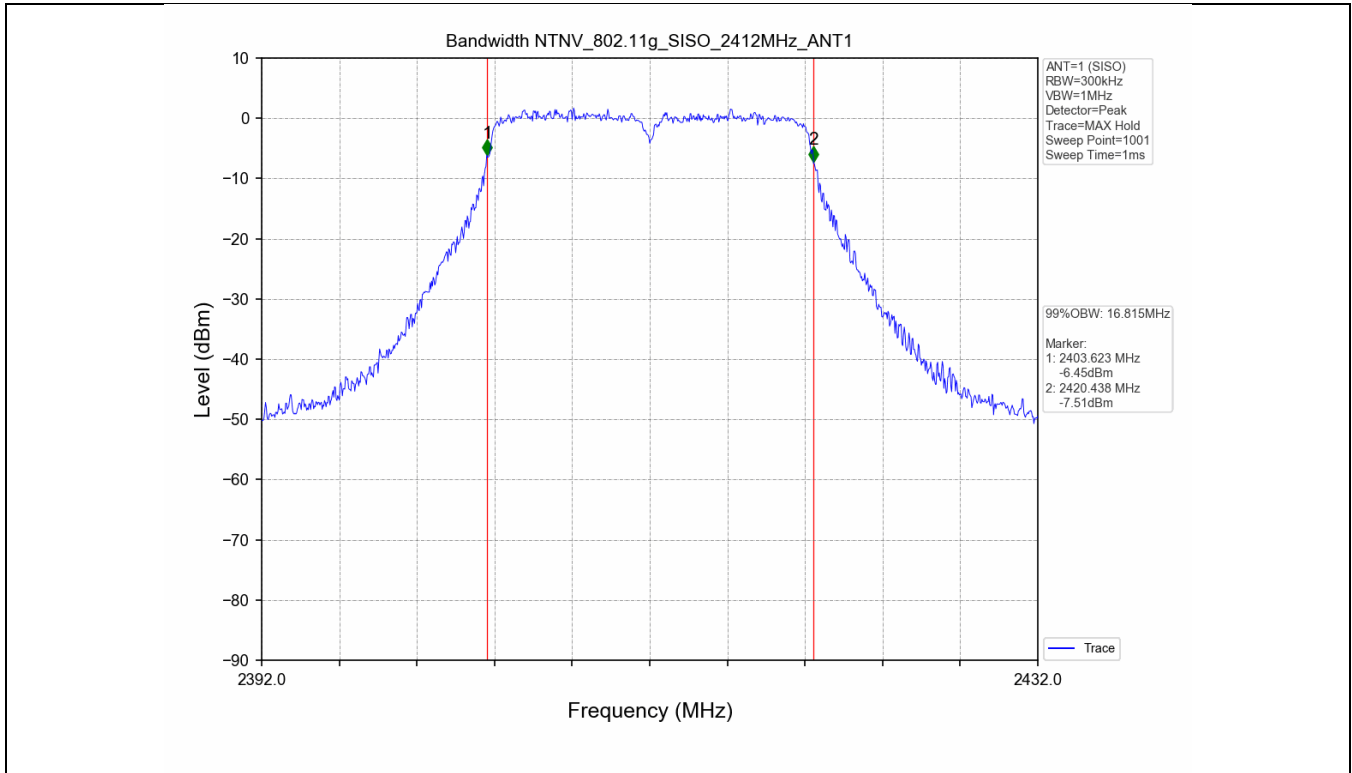
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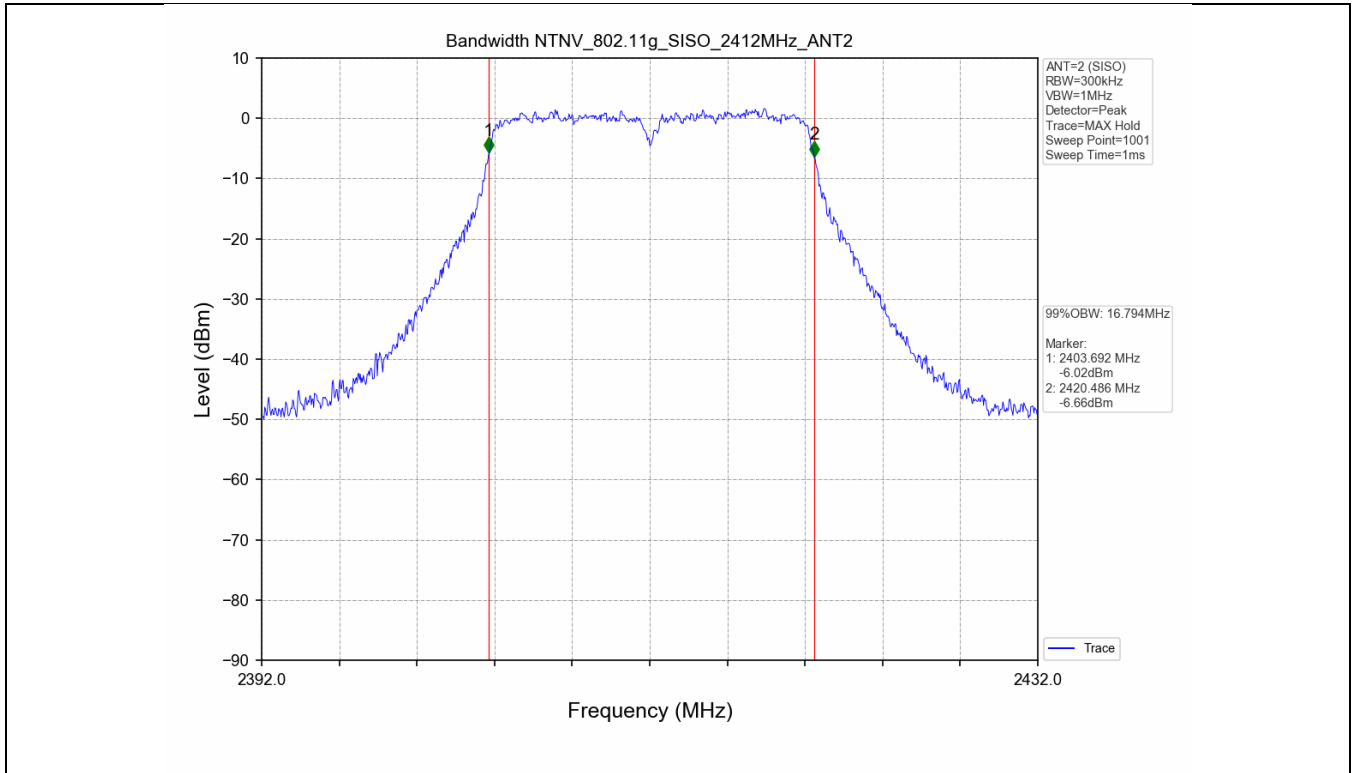
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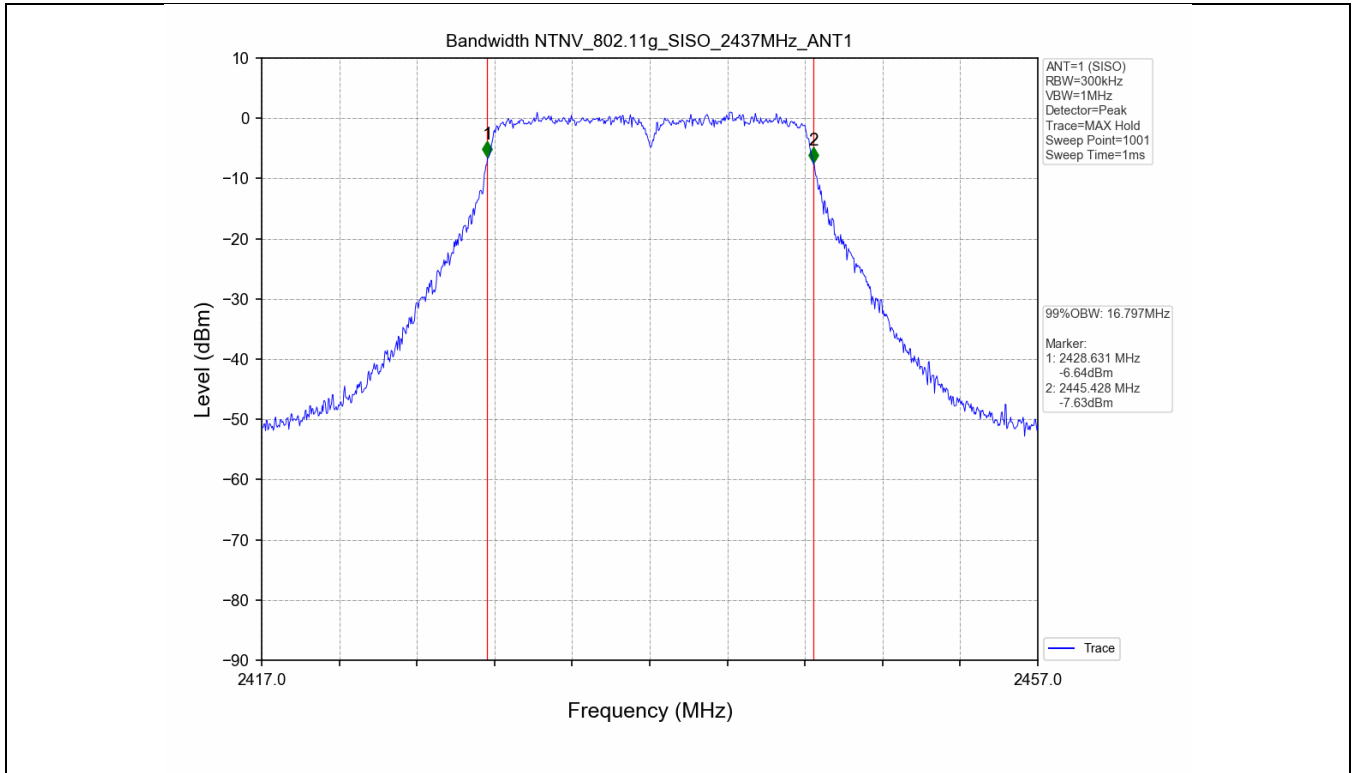


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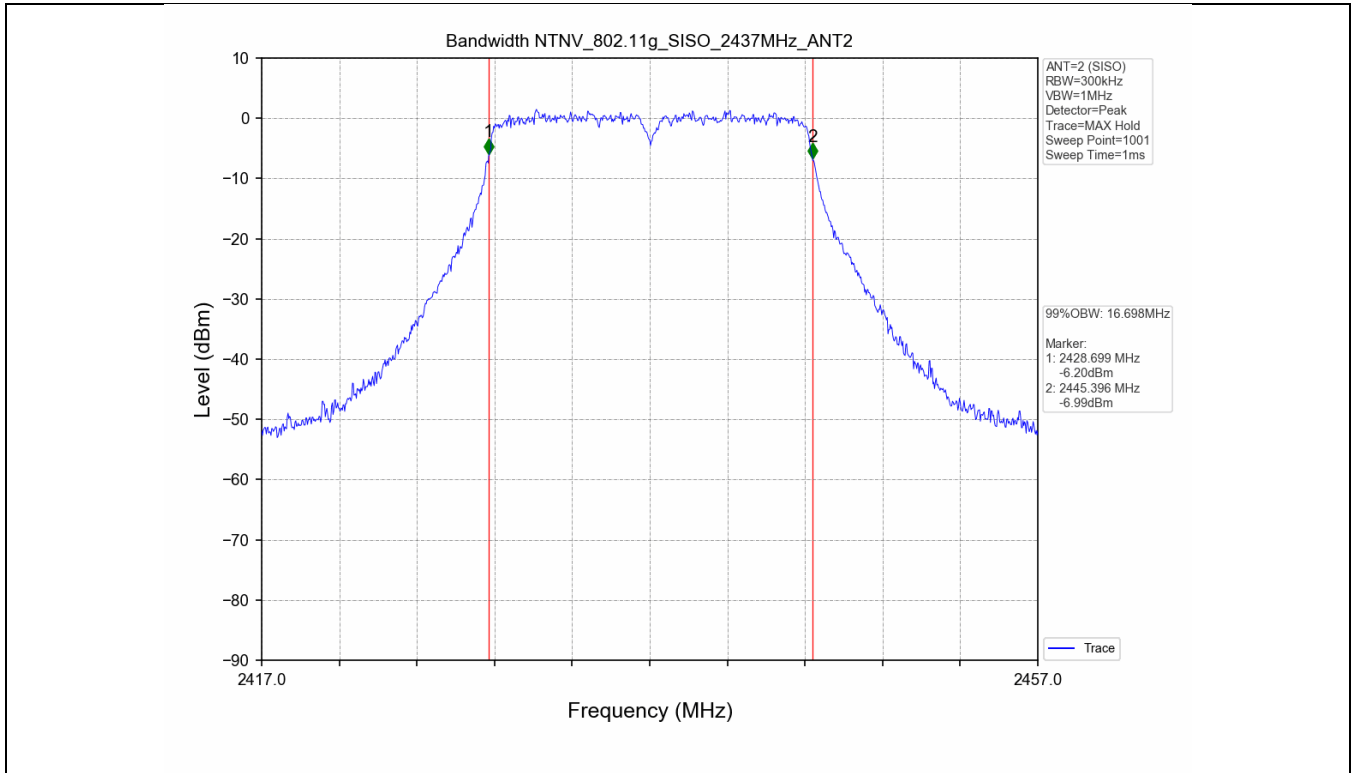




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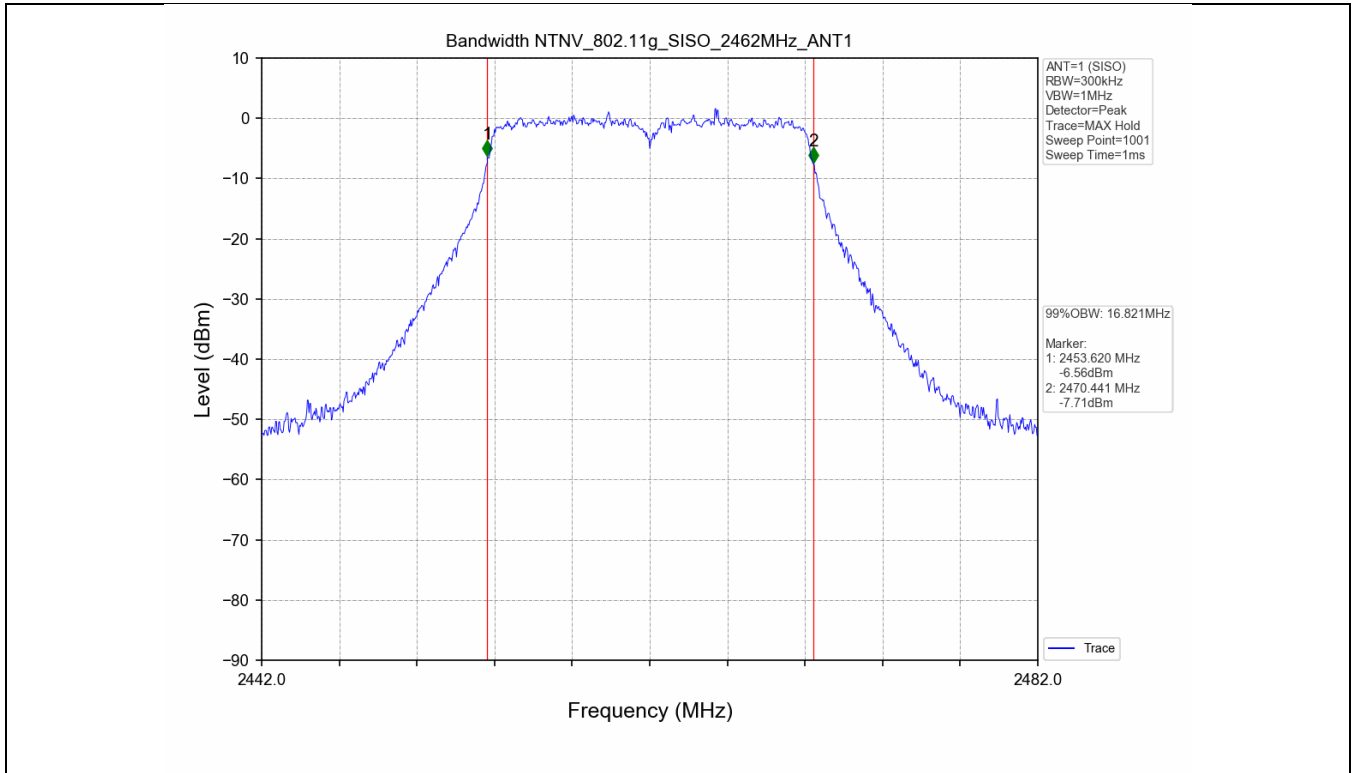
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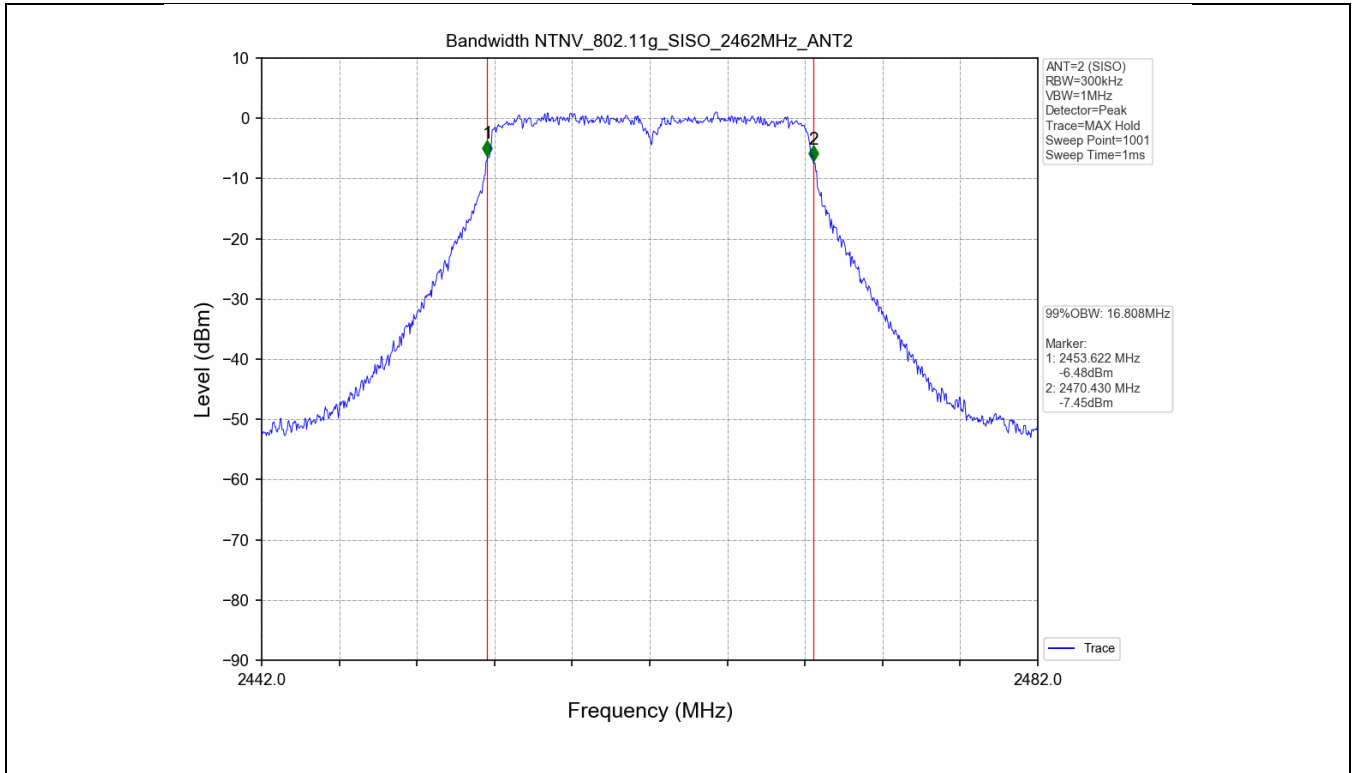
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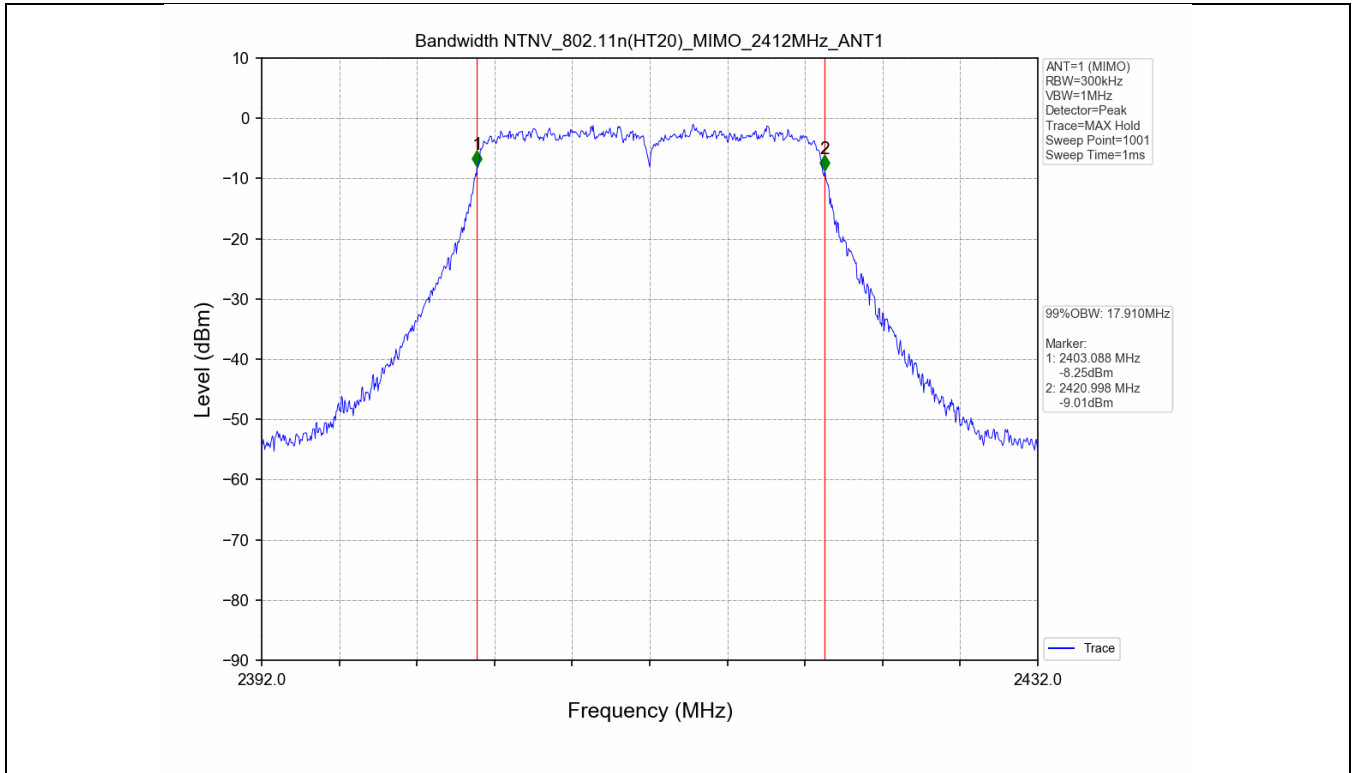
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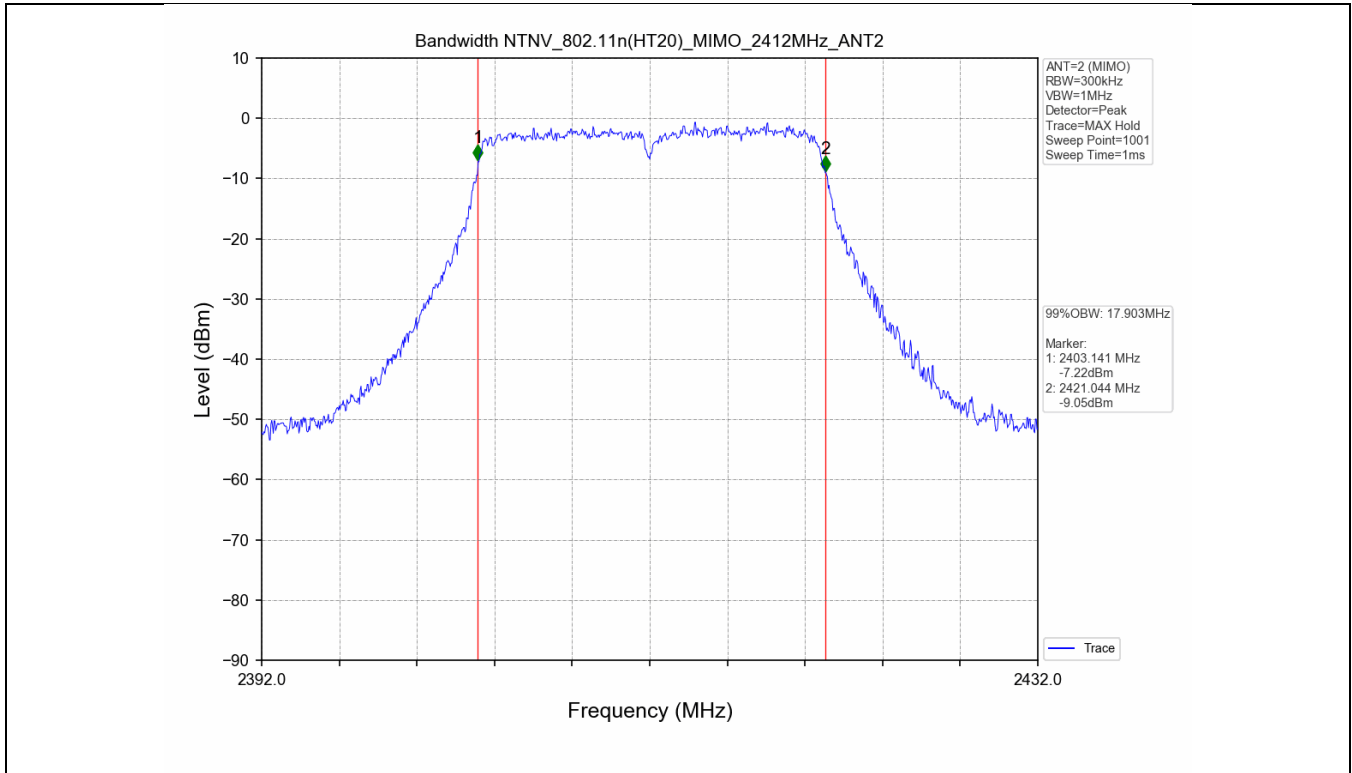


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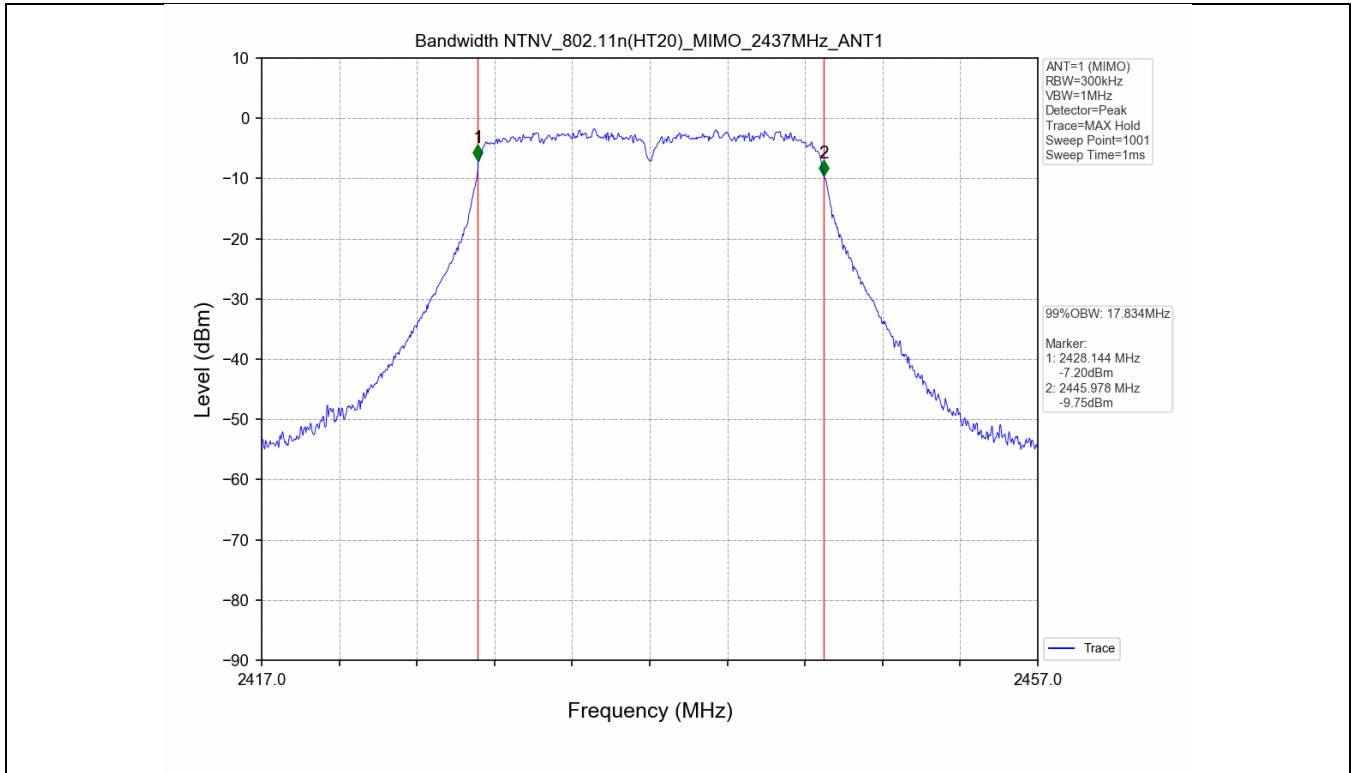




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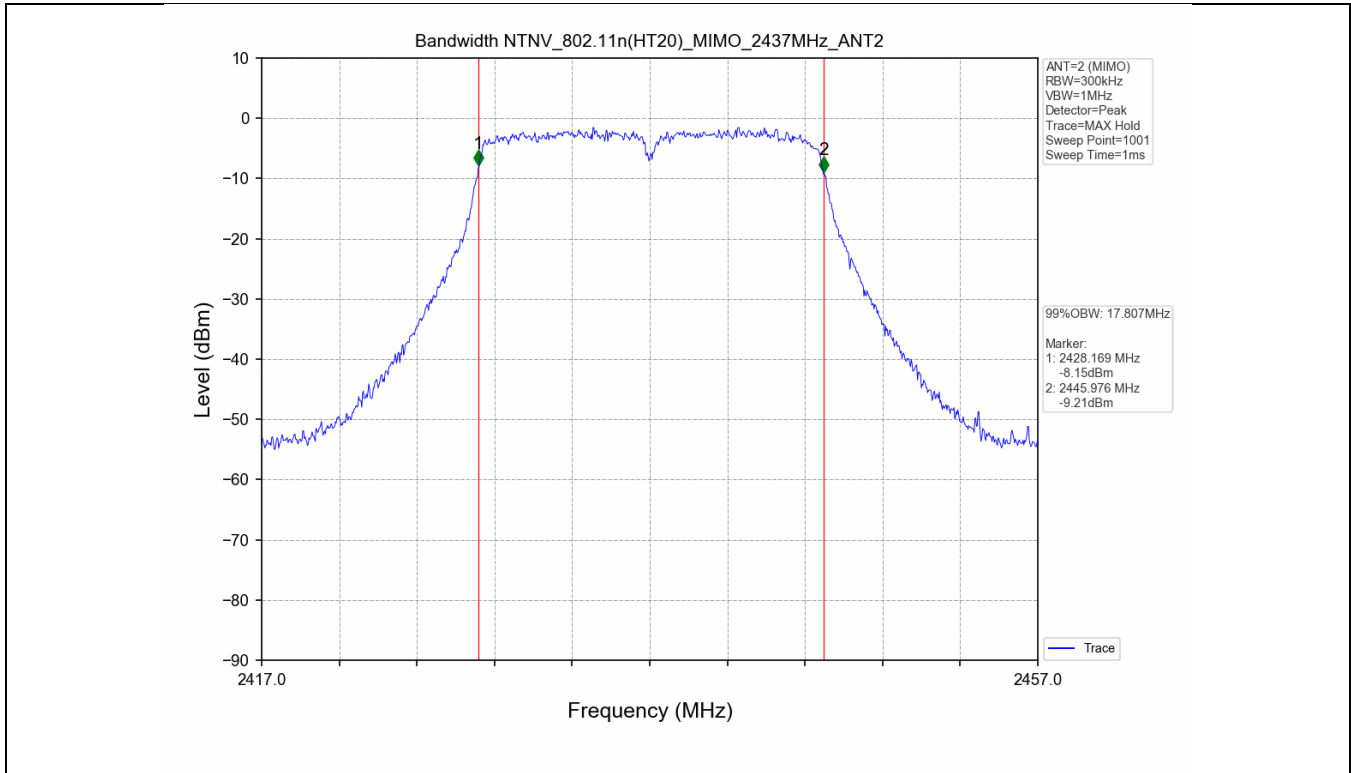
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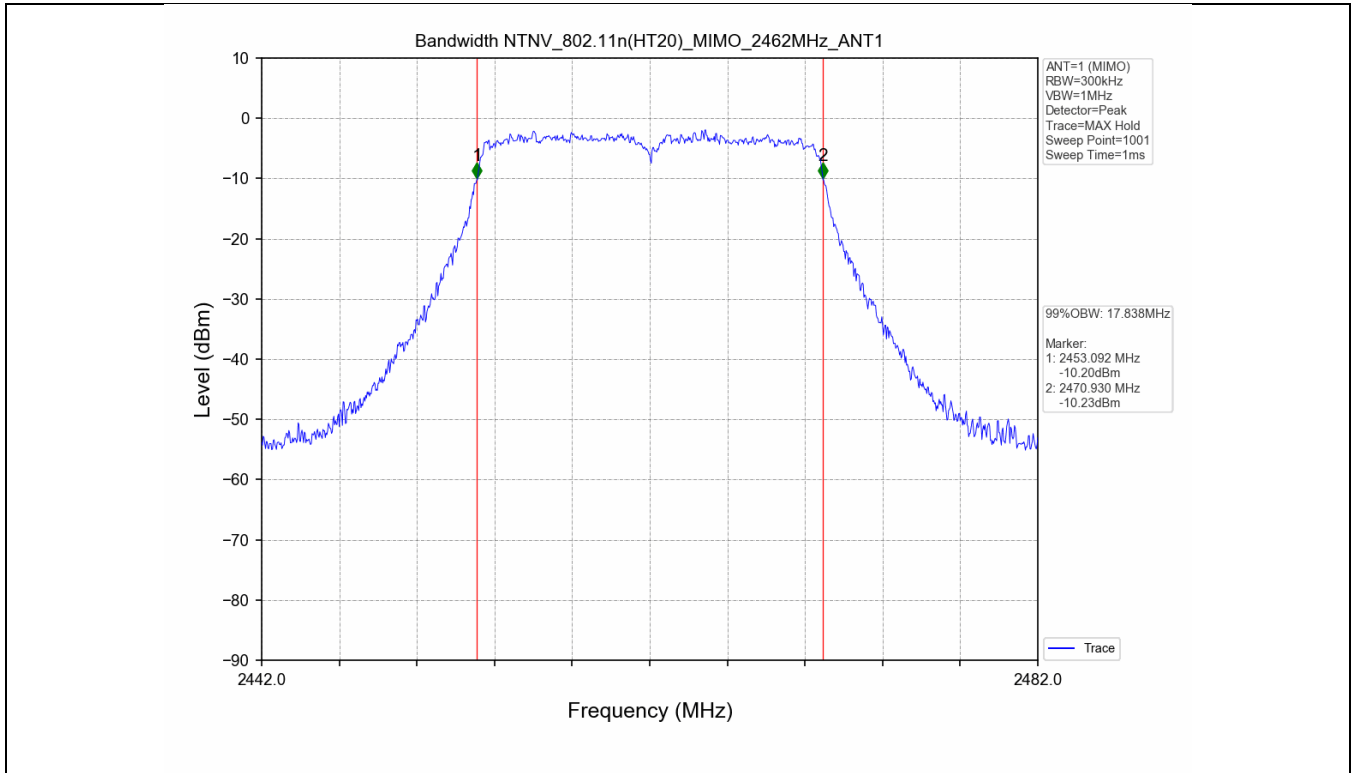
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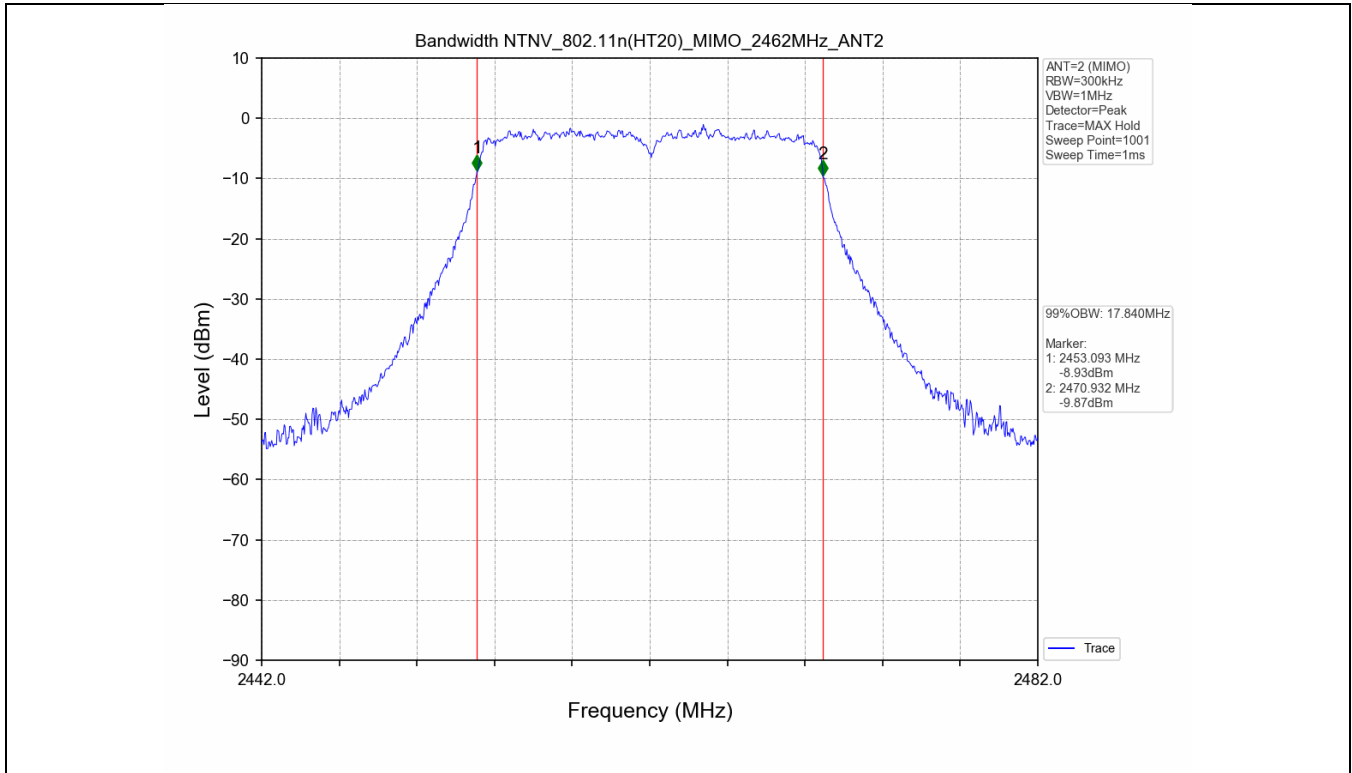
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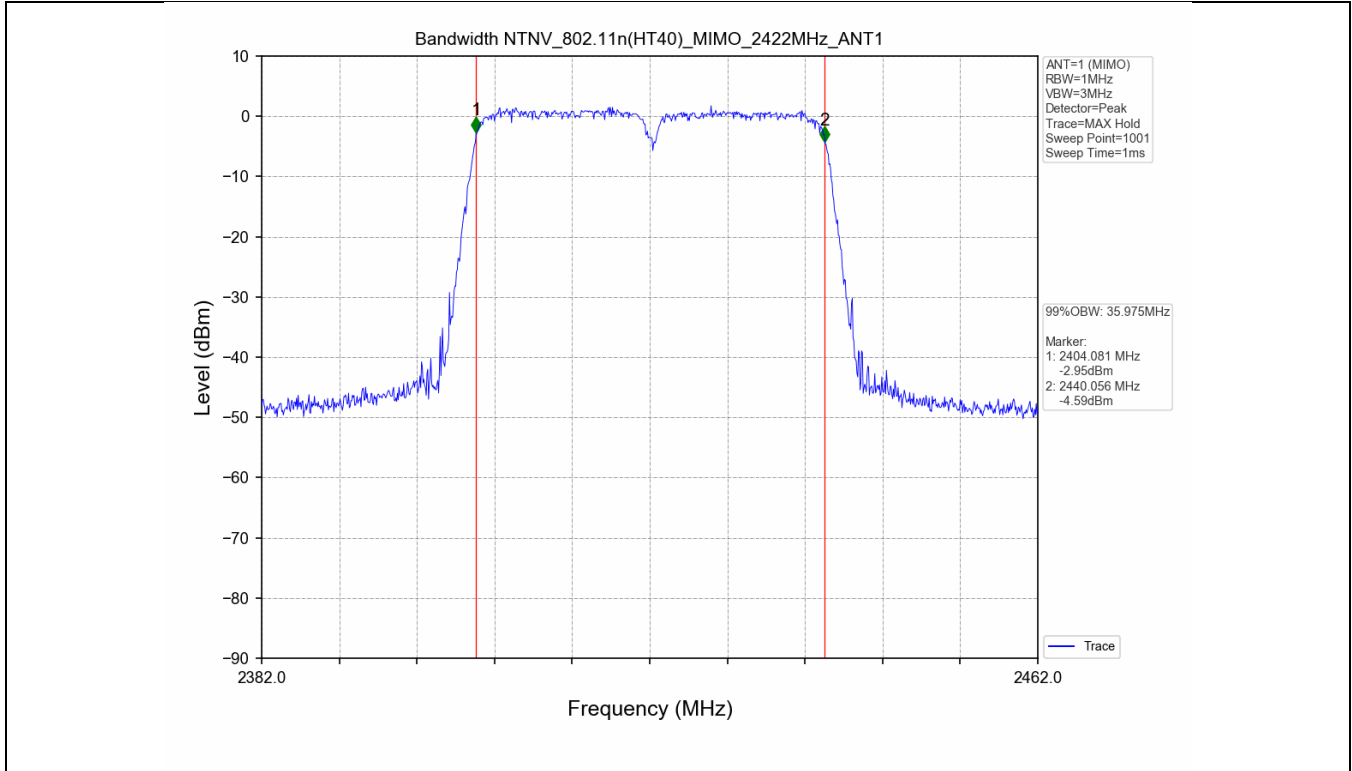


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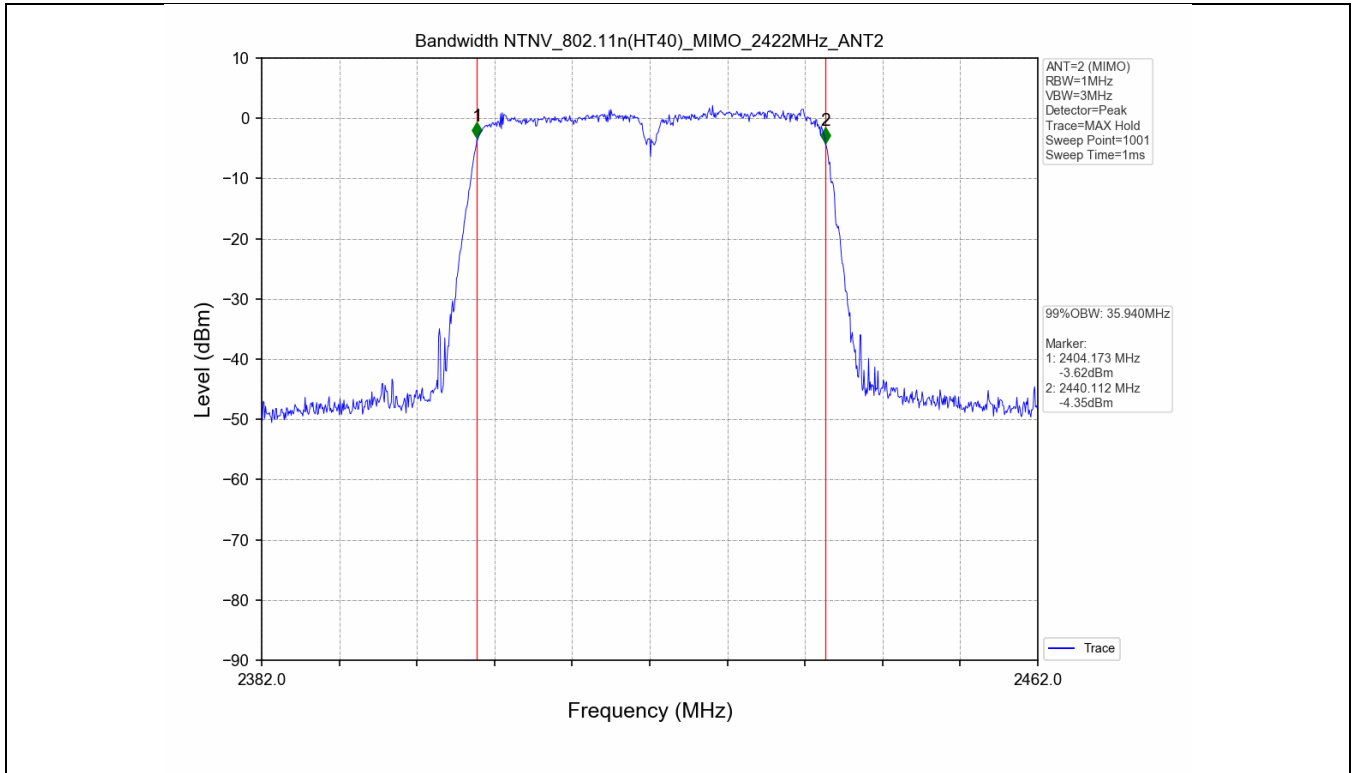




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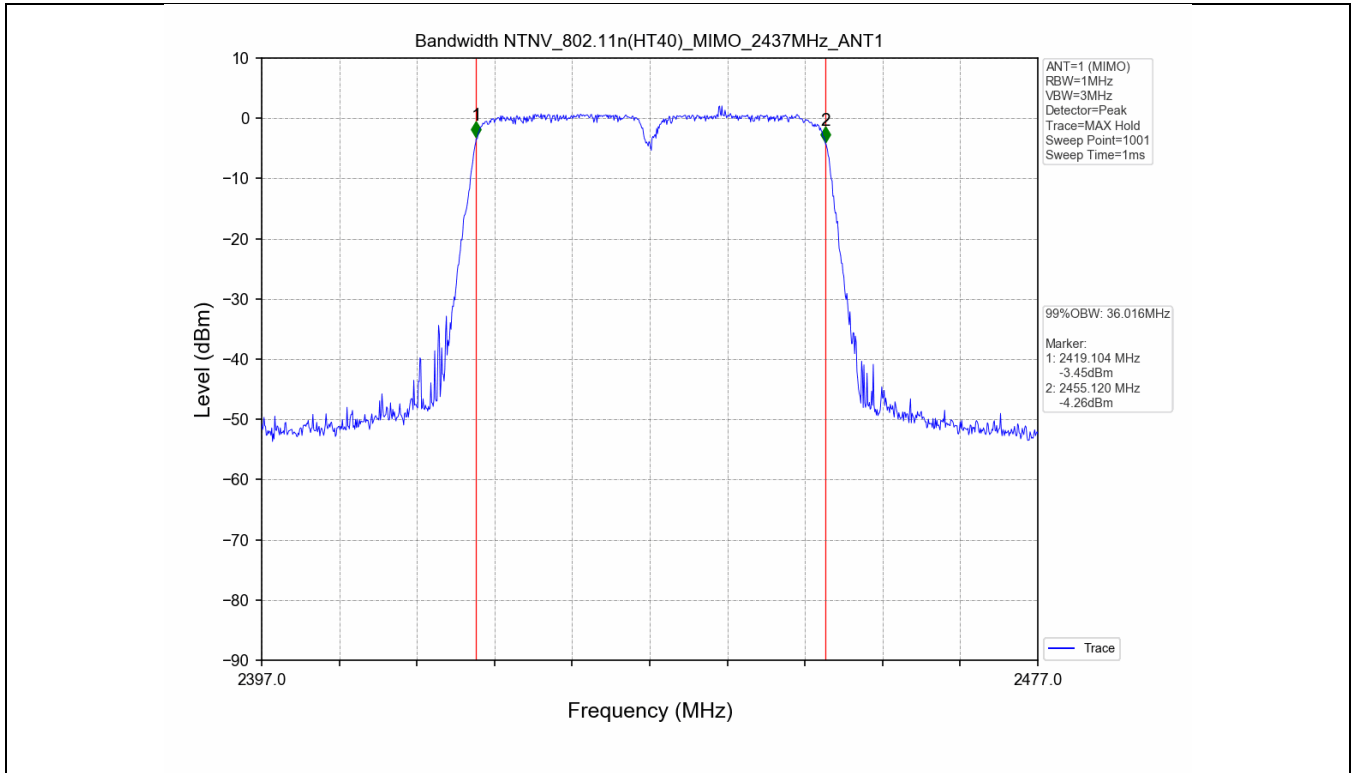


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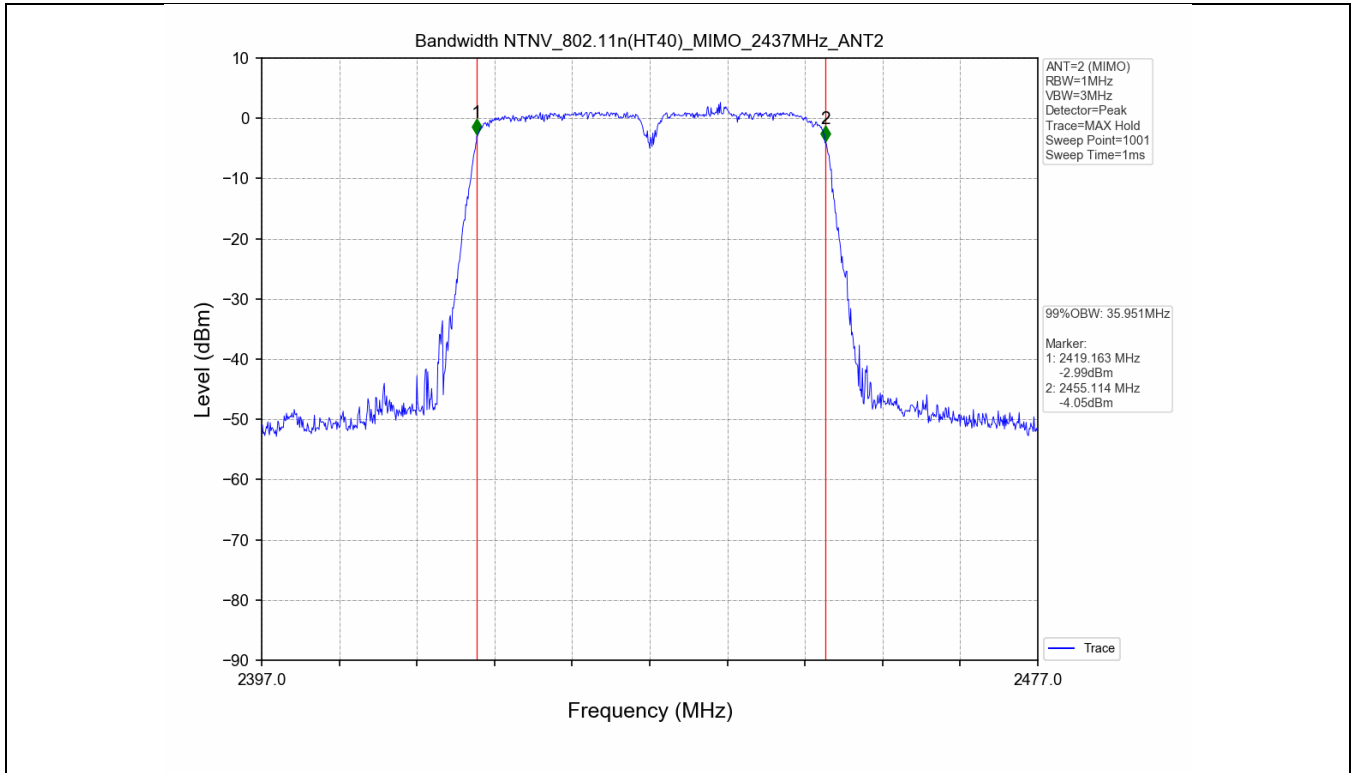
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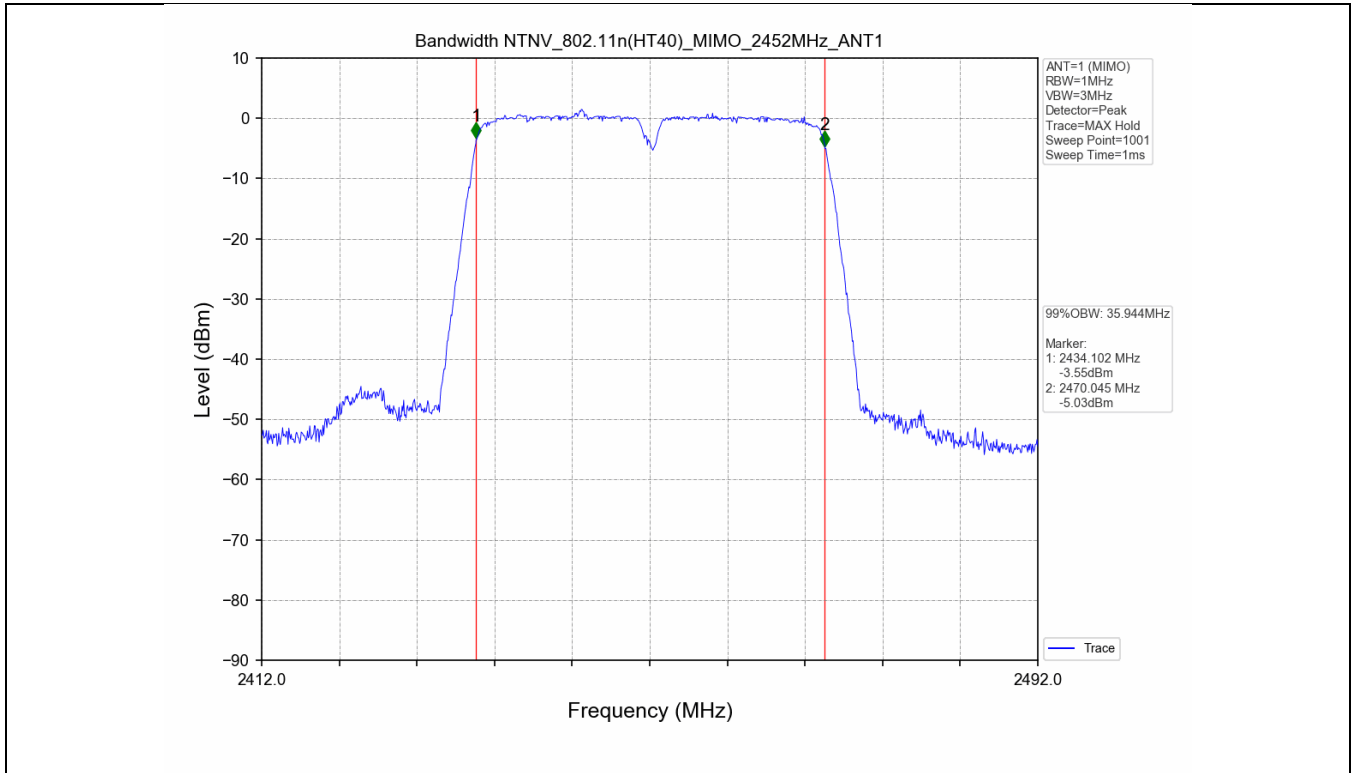
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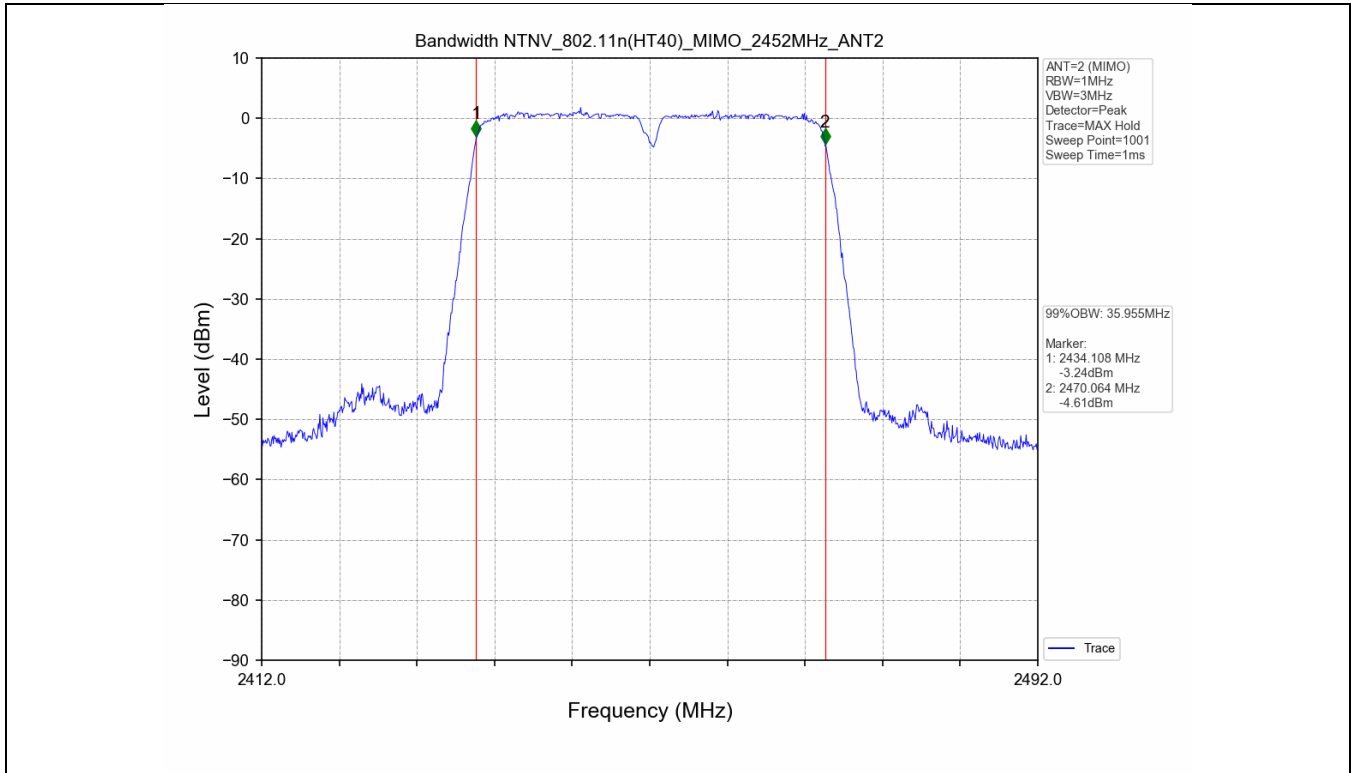


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### 3. Maximum Conducted Output Power

#### 3.1 Test Result

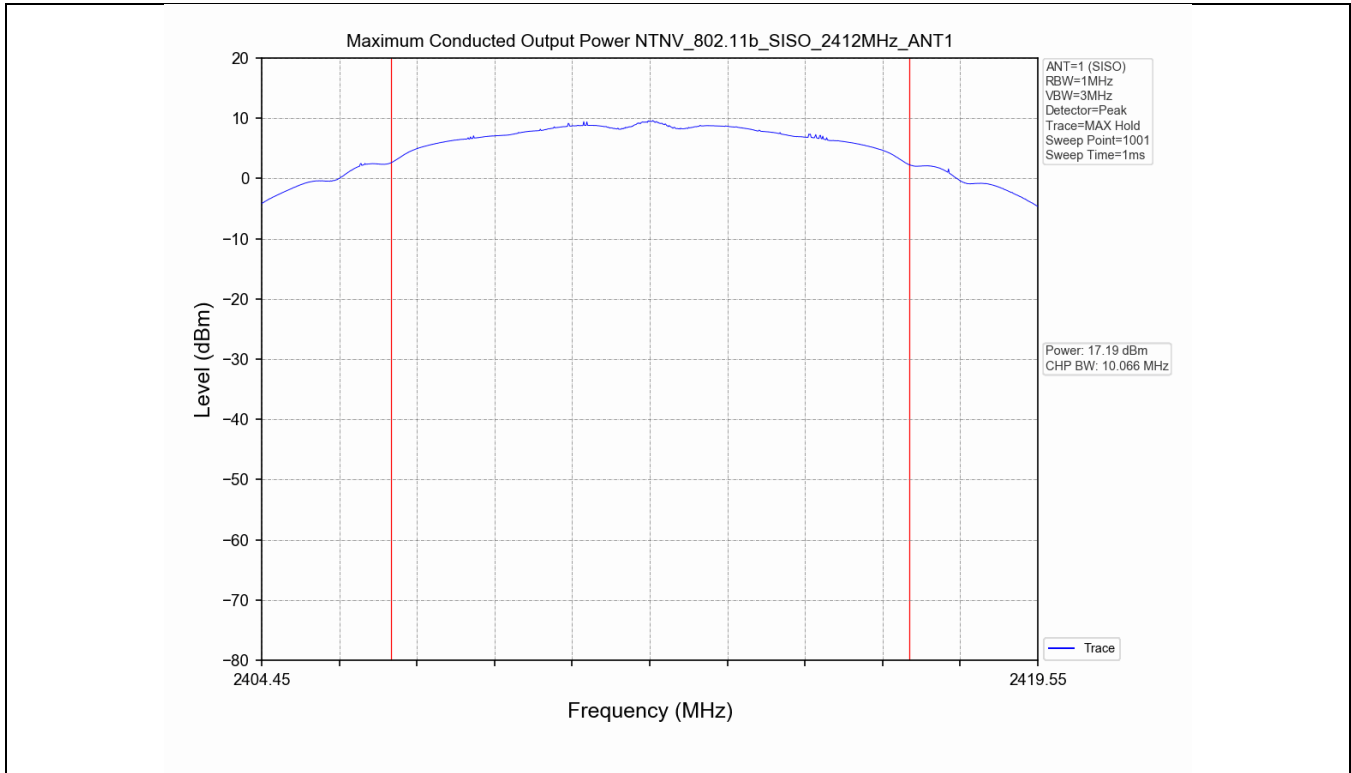
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.19	17.86	/	30	PASS
	2437	SISO	17.27	17.96	/	30	PASS
	2462	SISO	17.05	17.75	/	30	PASS
802.11g	2412	SISO	17.92	17.95	/	30	PASS
	2437	SISO	17.40	17.80	/	30	PASS
	2462	SISO	17.06	17.50	/	30	PASS
802.11n(HT20)	2412	MIMO	15.31	15.55	18.44	30	PASS
	2437	MIMO	14.87	15.29	18.10	30	PASS
	2462	MIMO	14.67	15.09	17.90	30	PASS
802.11n(HT40)	2422	MIMO	15.16	15.02	18.10	30	PASS
	2437	MIMO	15.04	15.31	18.19	30	PASS
	2452	MIMO	14.82	15.18	18.01	30	PASS

#### 3.2 Test Graph



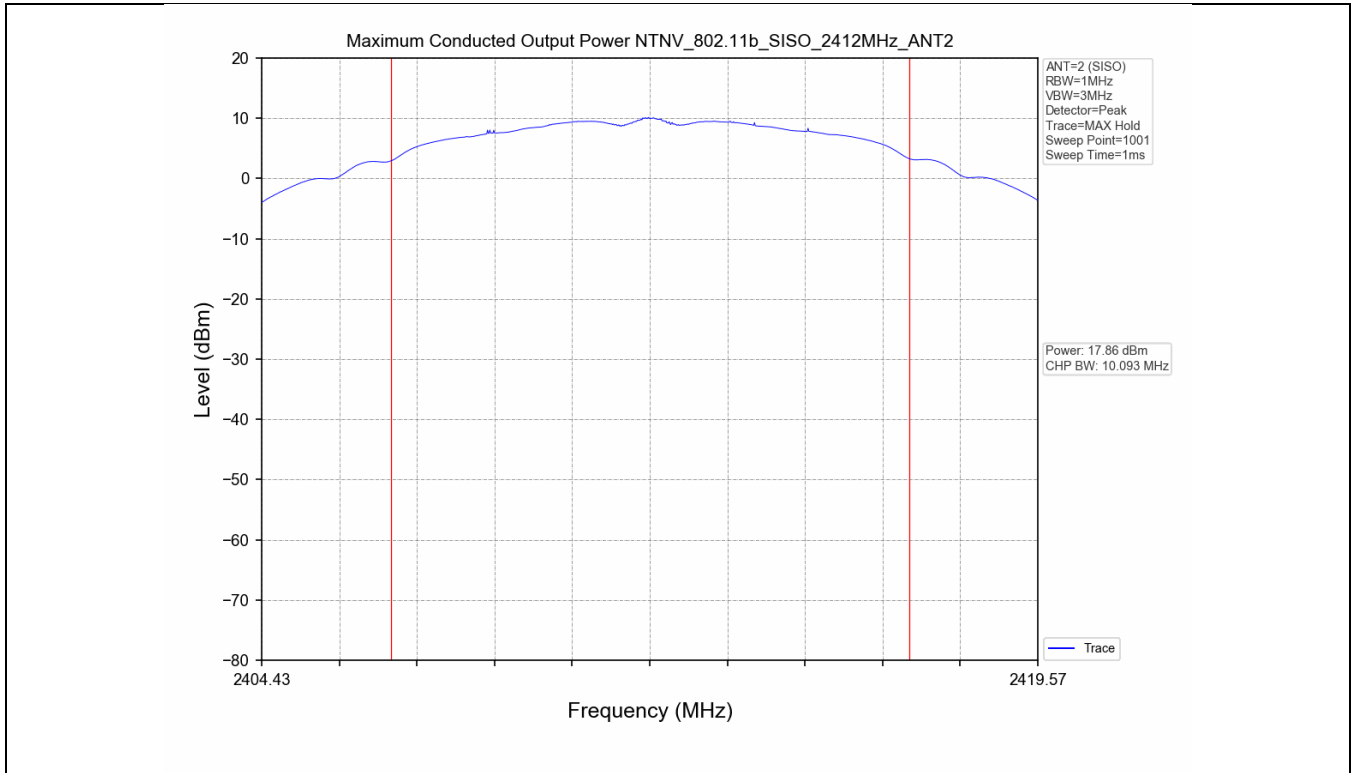
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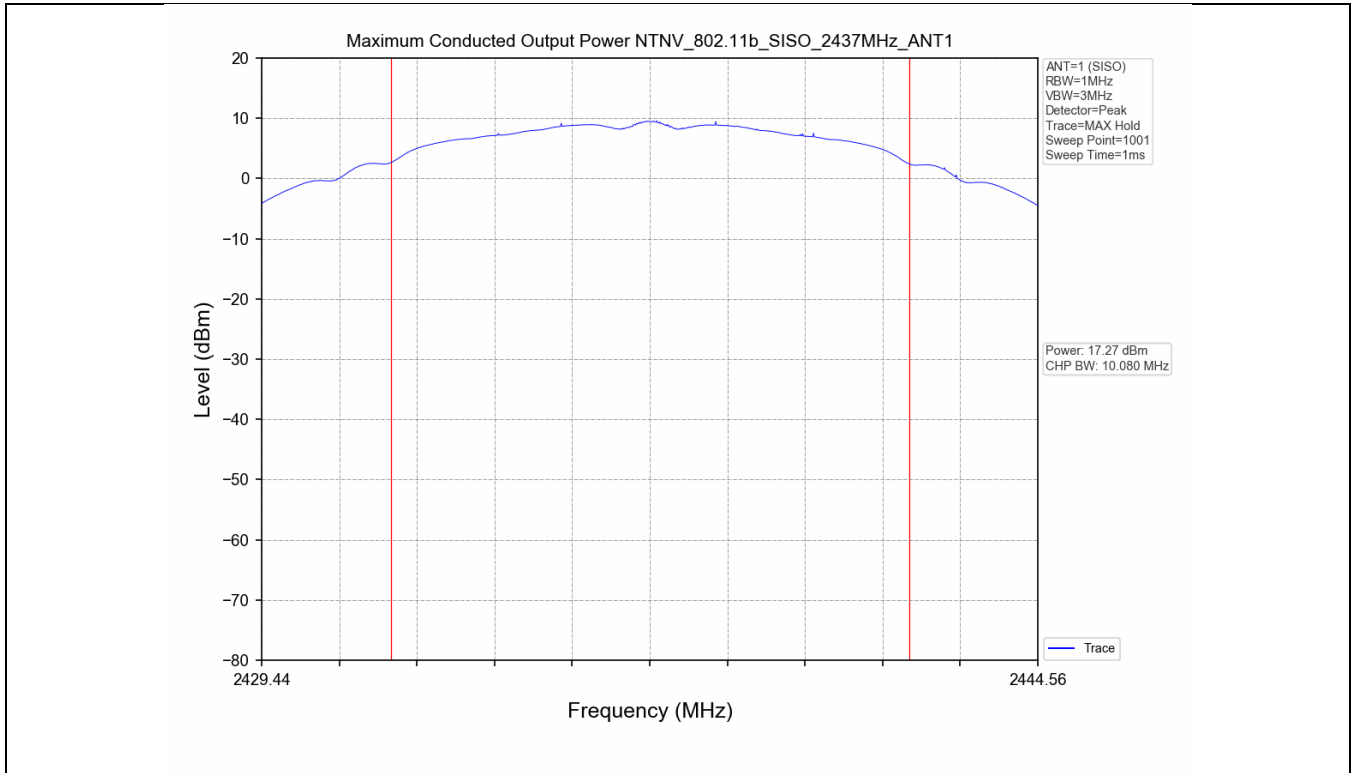
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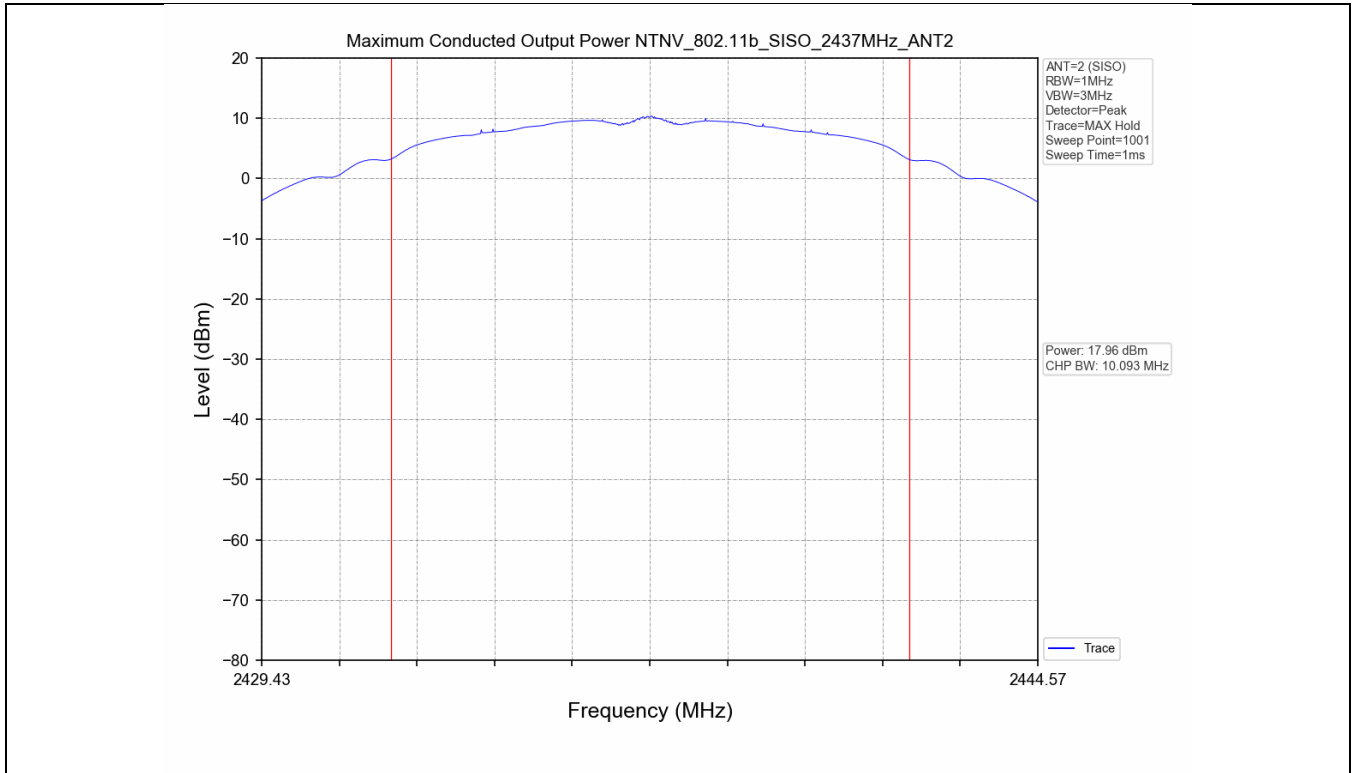
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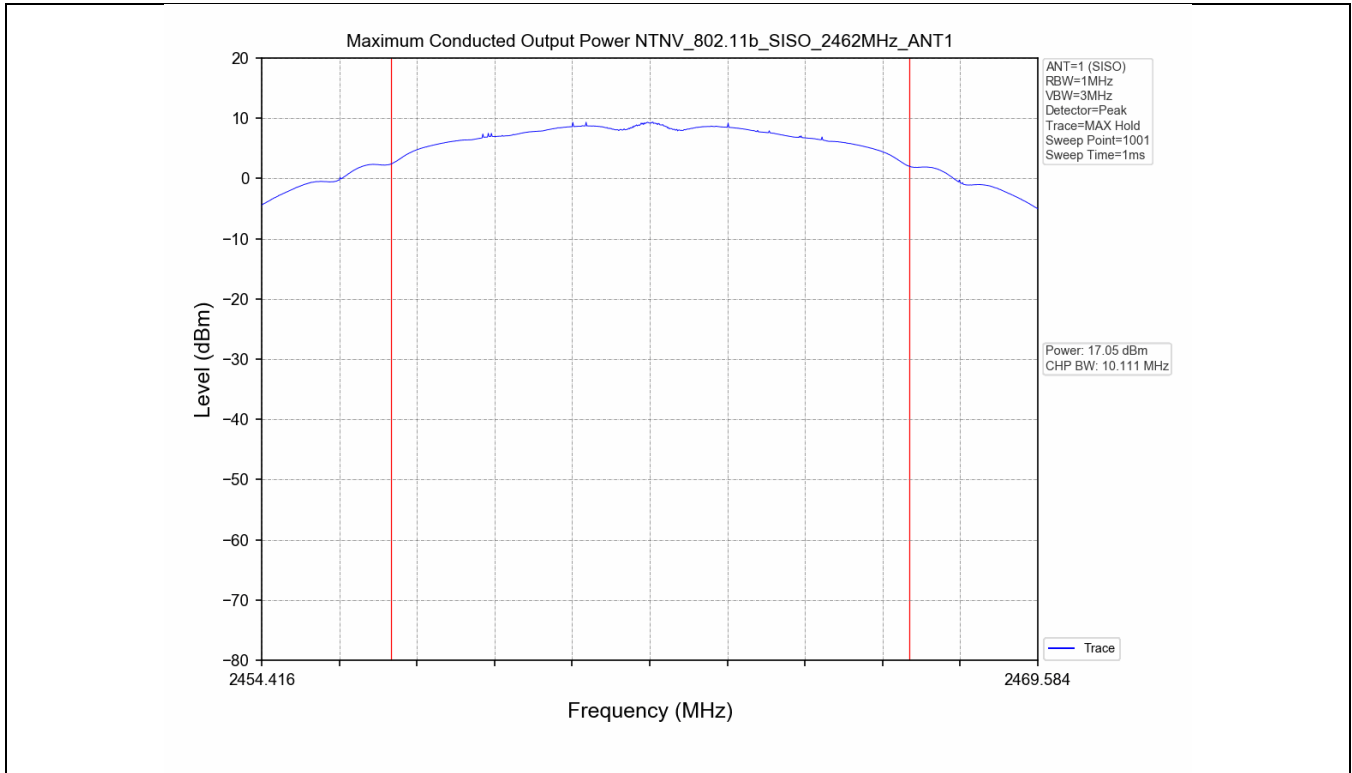


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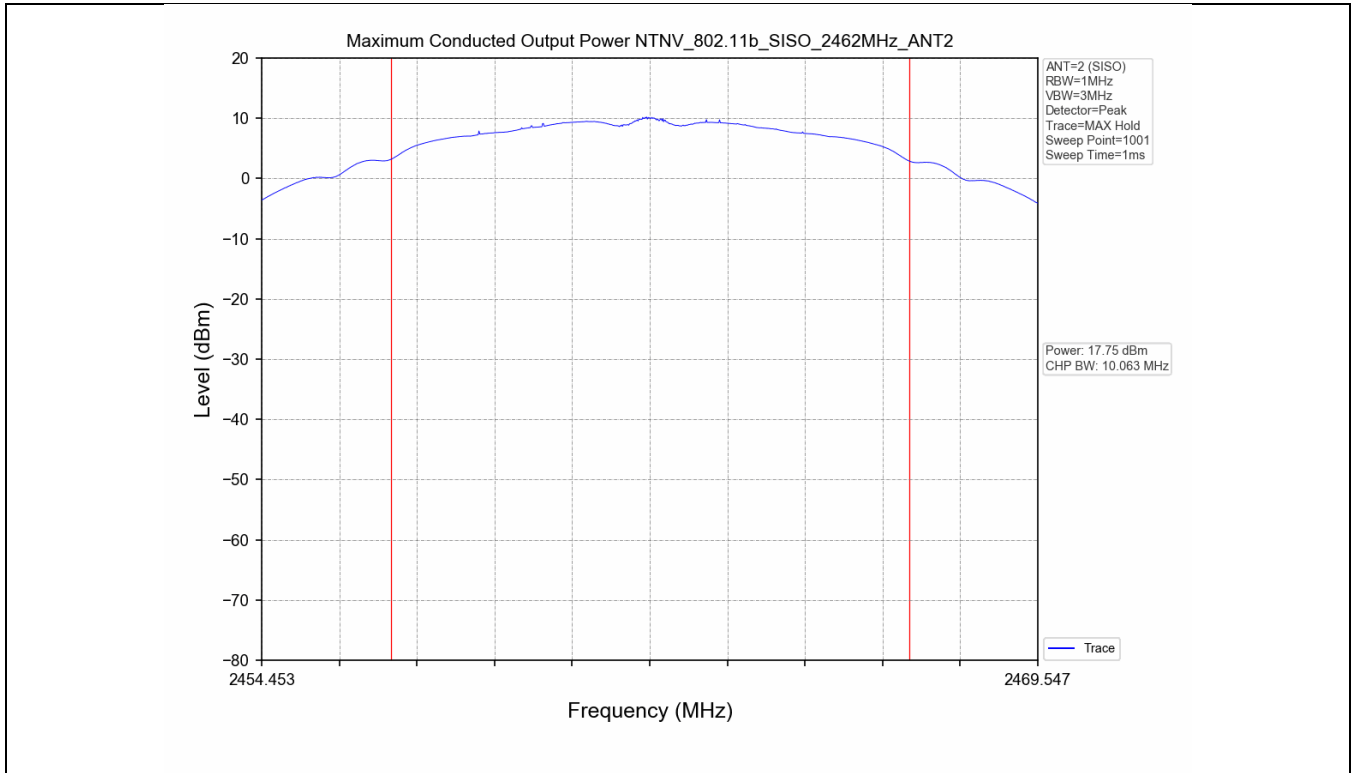




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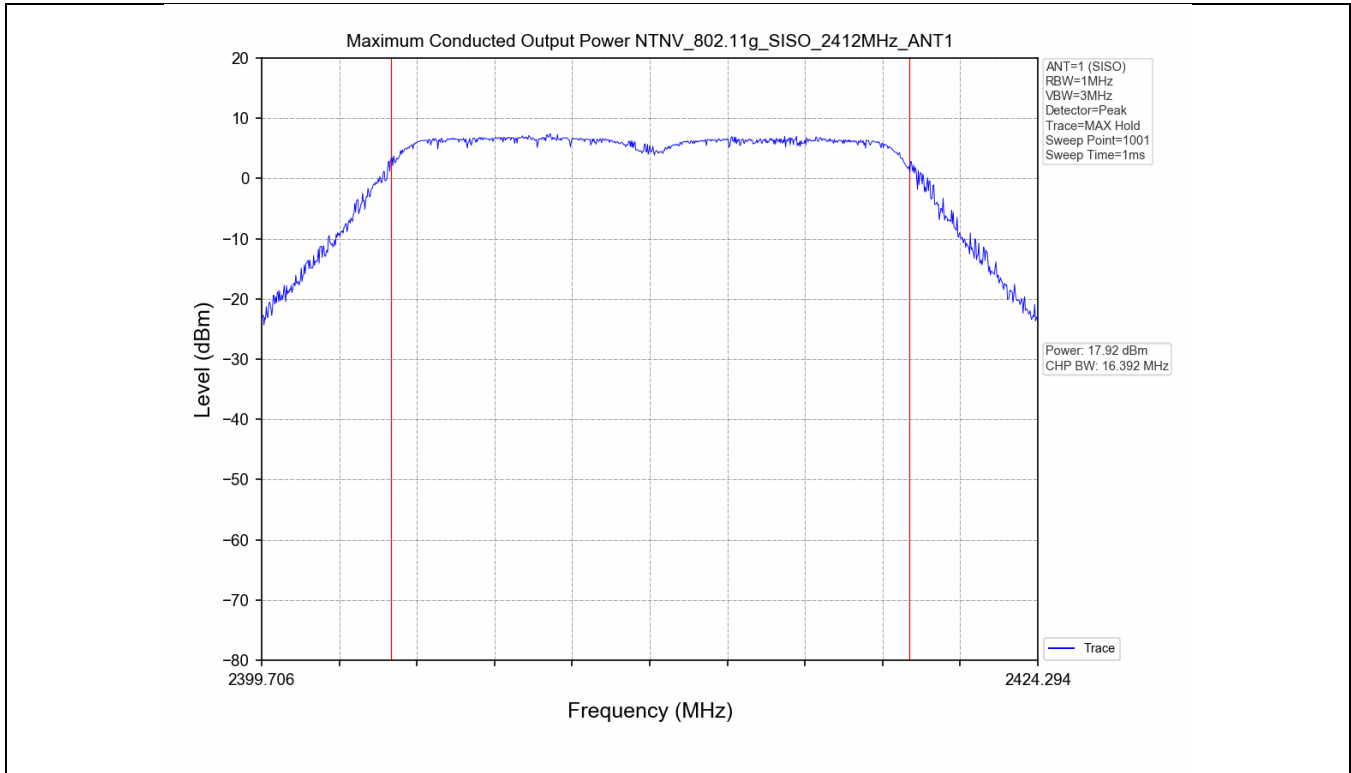
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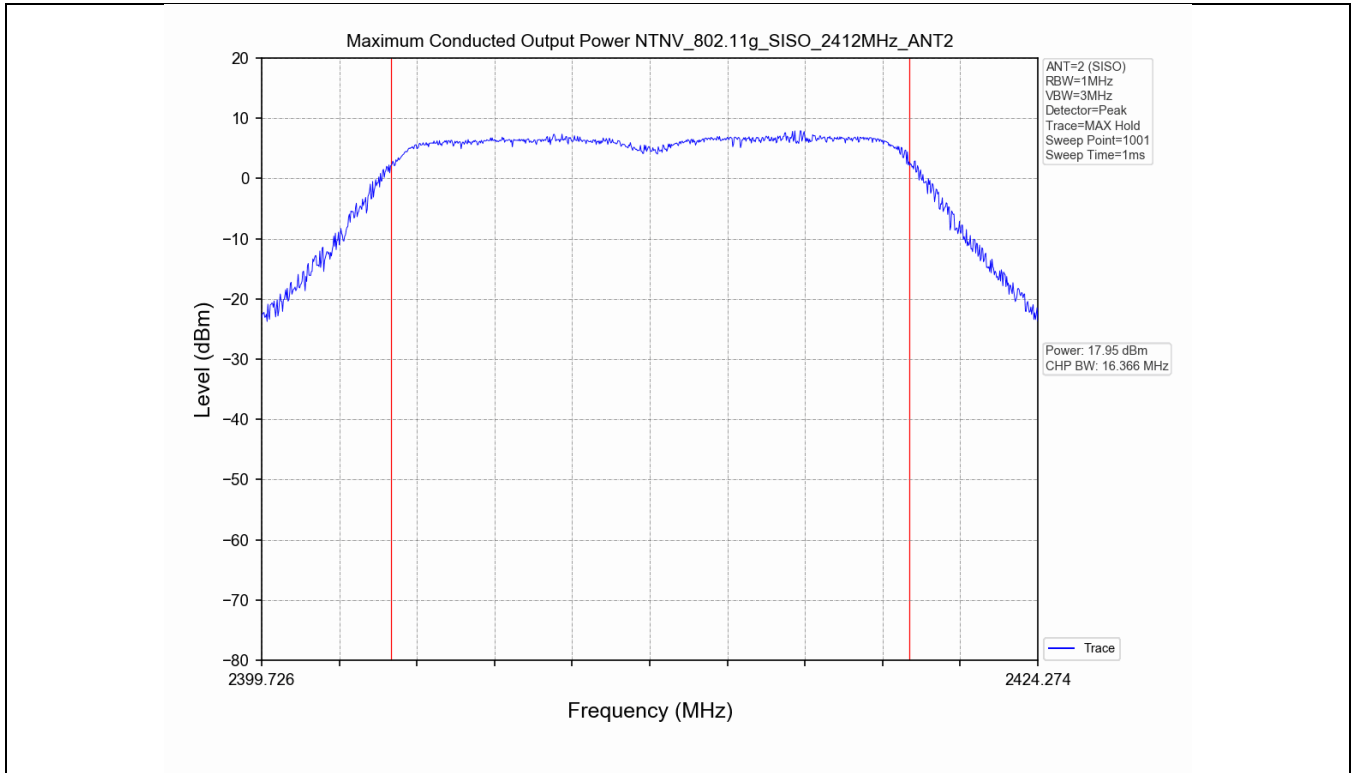
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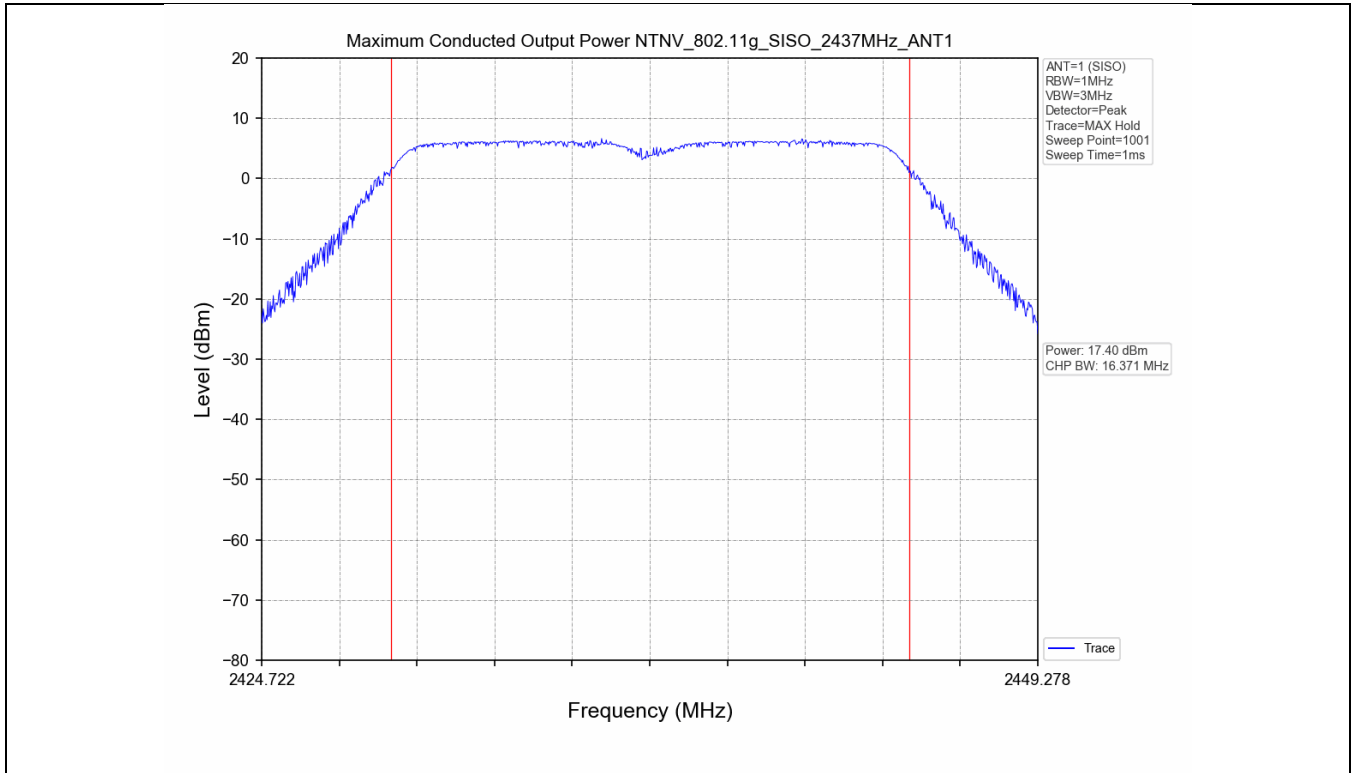
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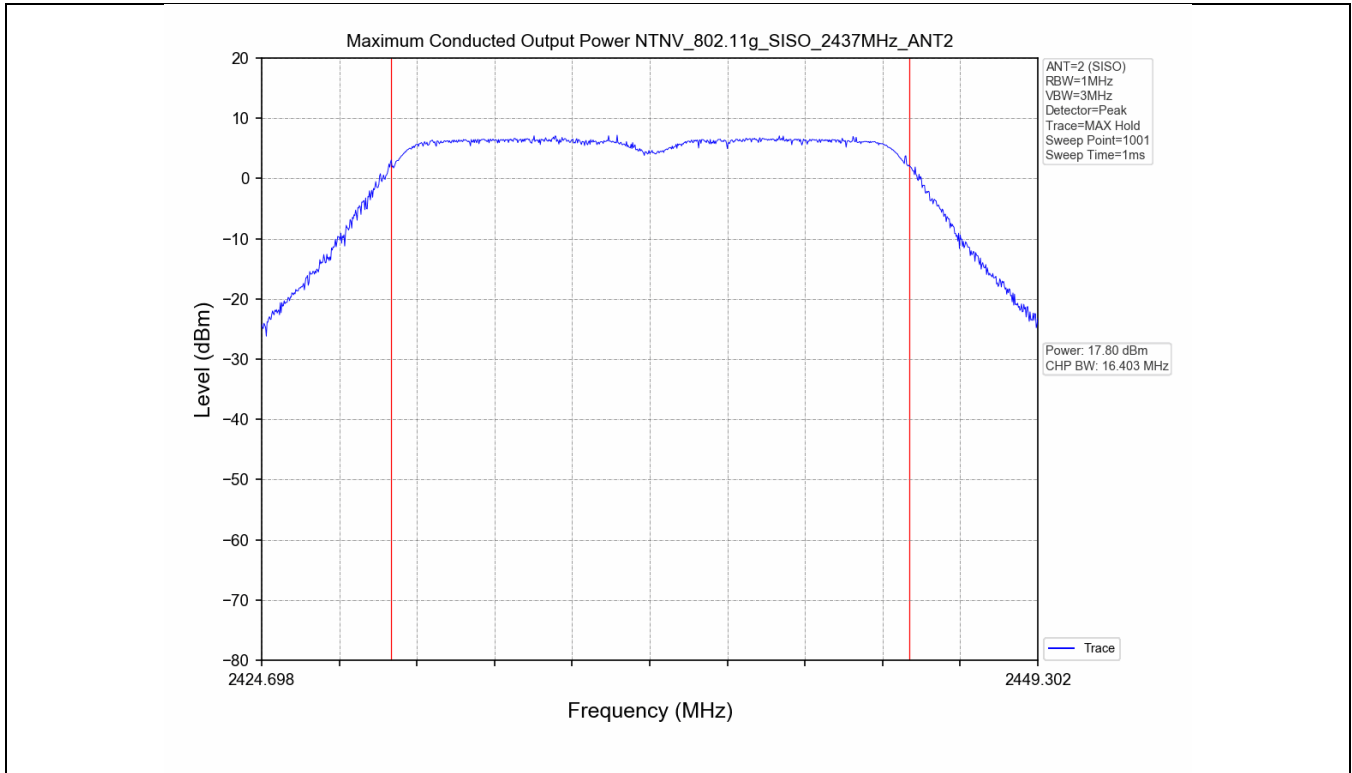


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