

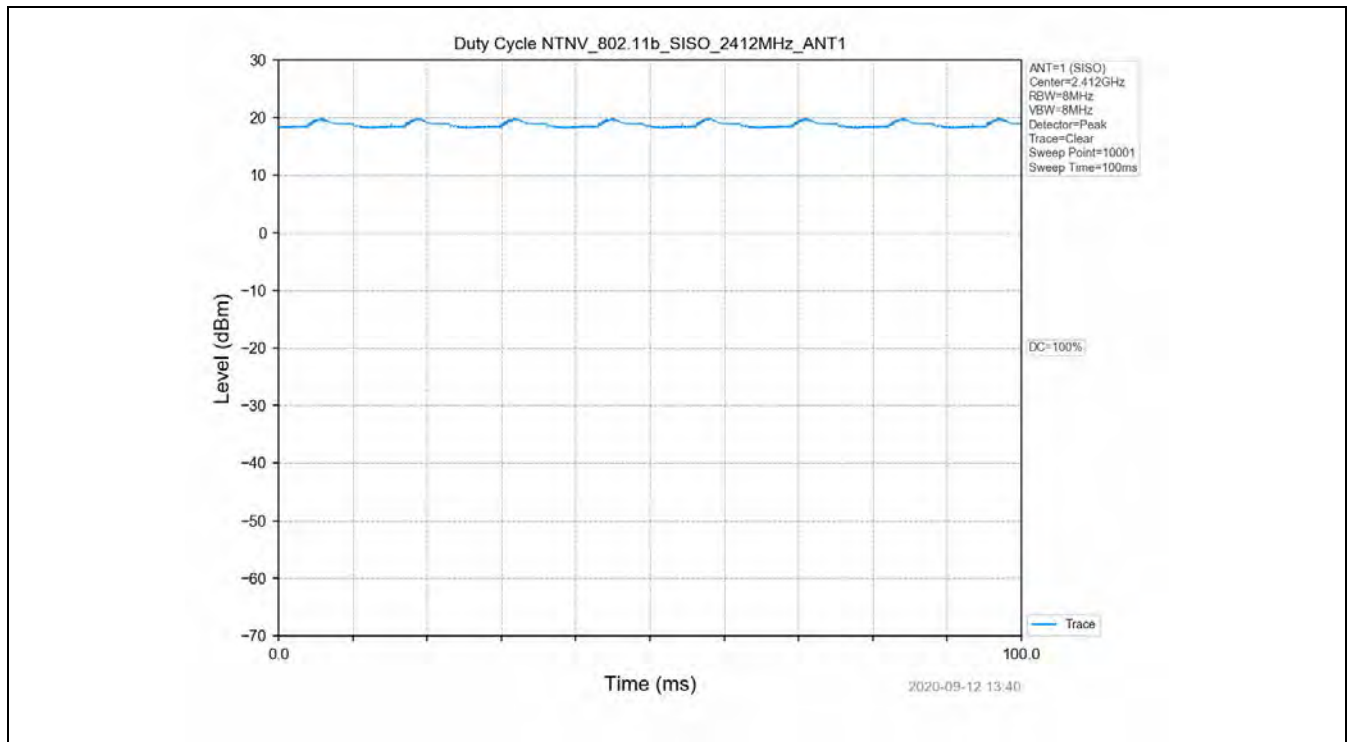
## Appendix A for SHEM200900756301

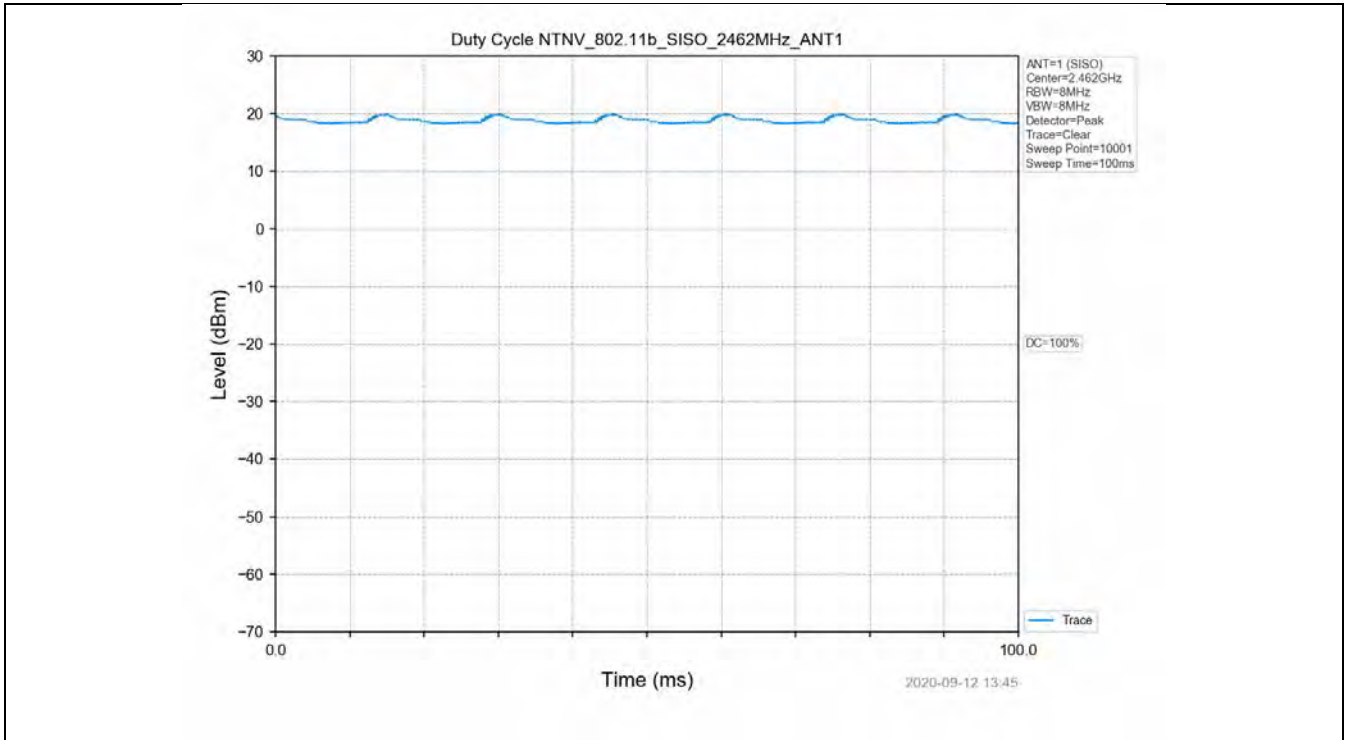
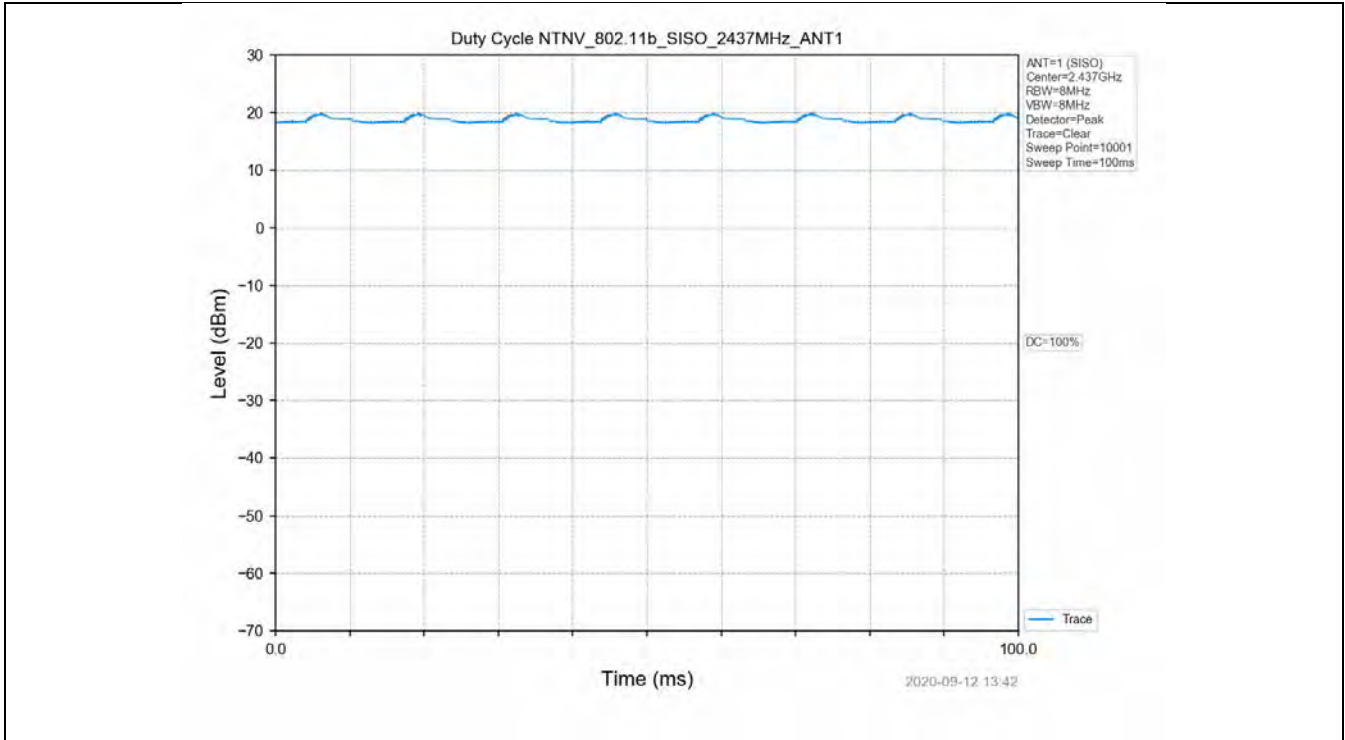
### 1. Duty Cycle

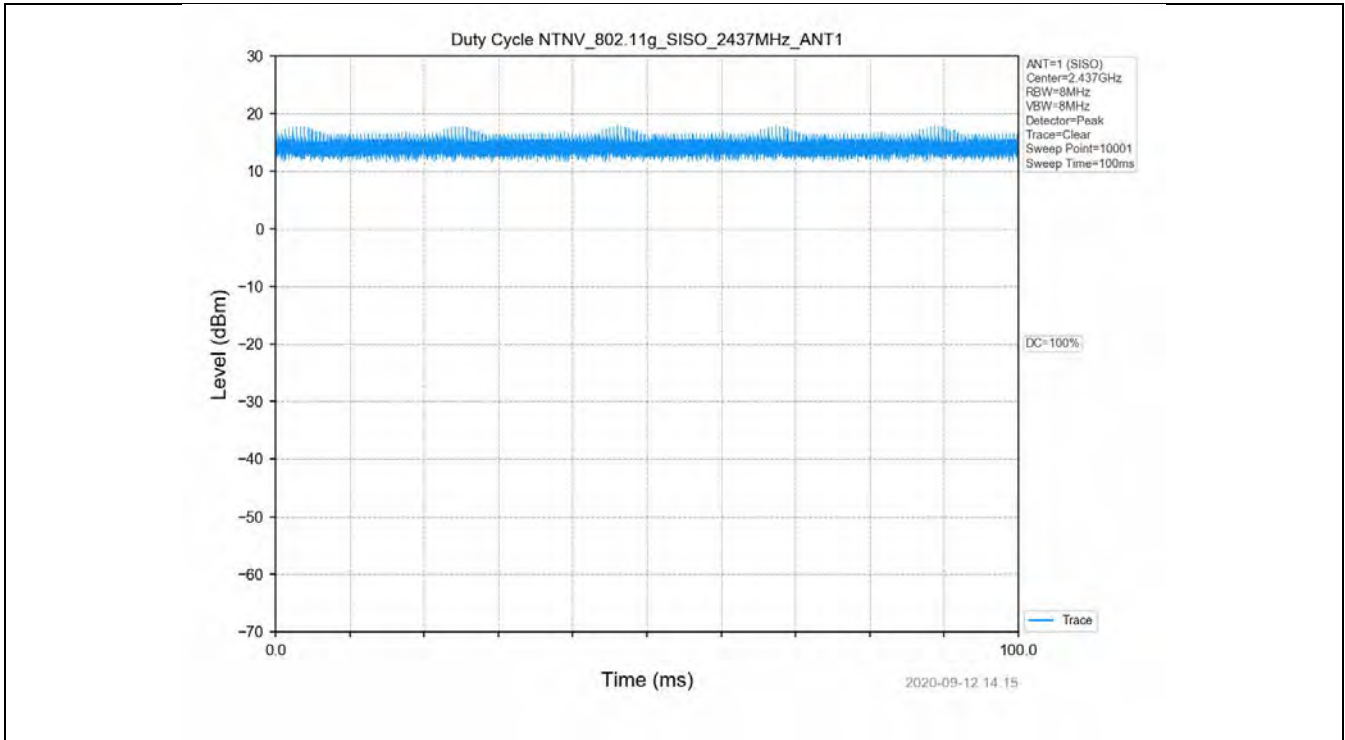
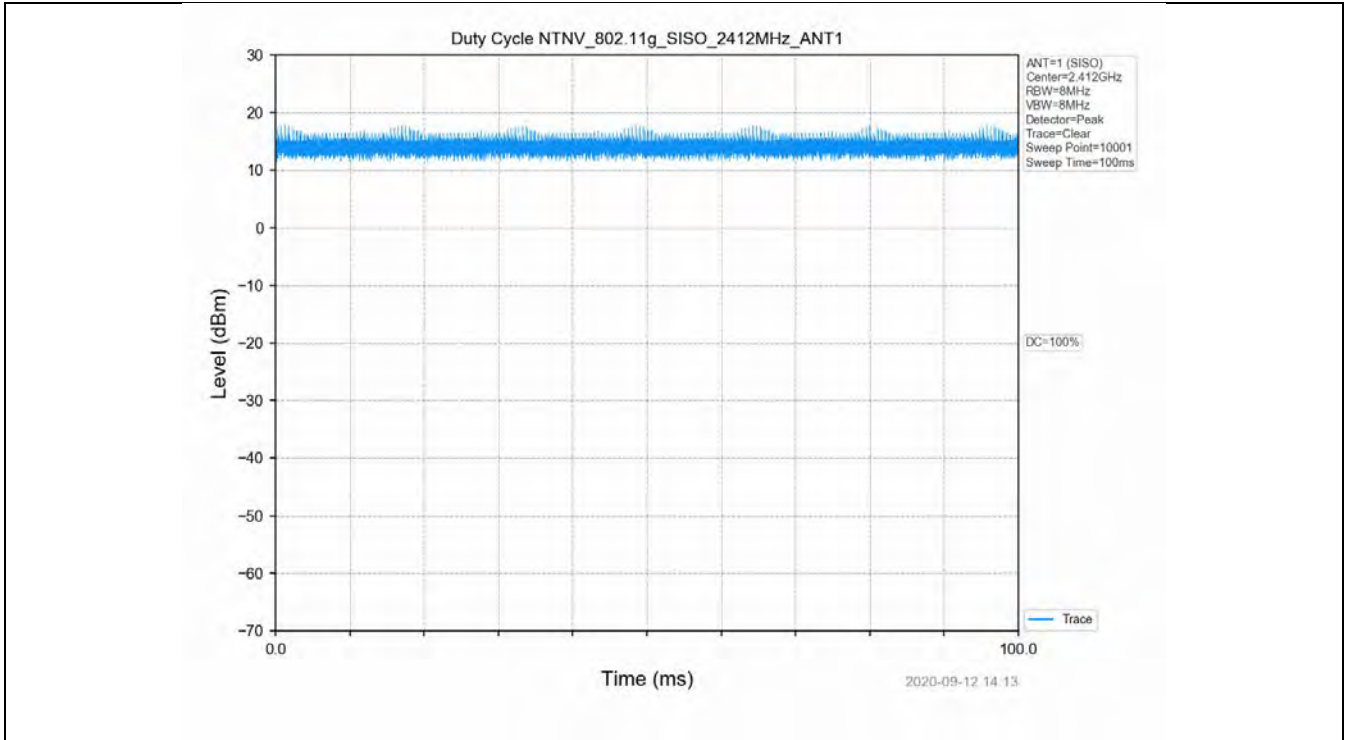
#### 1.1 Test Result

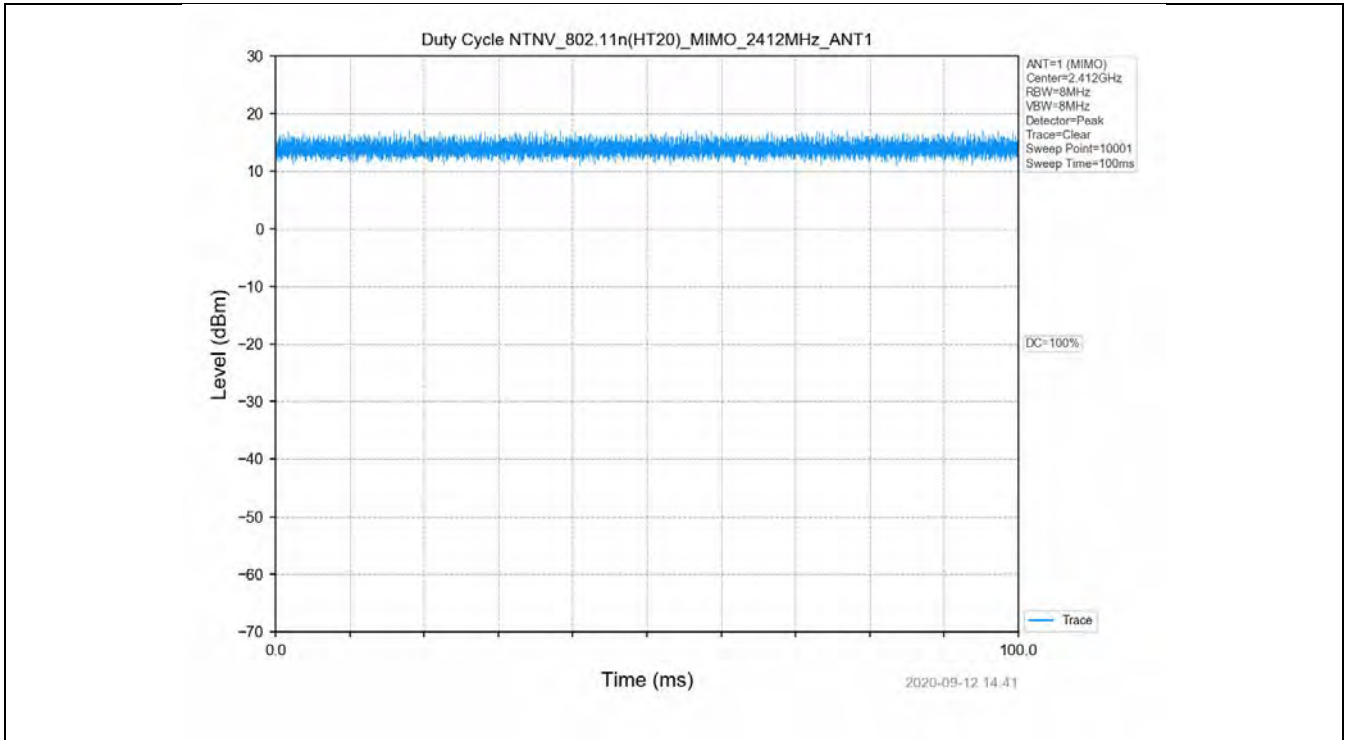
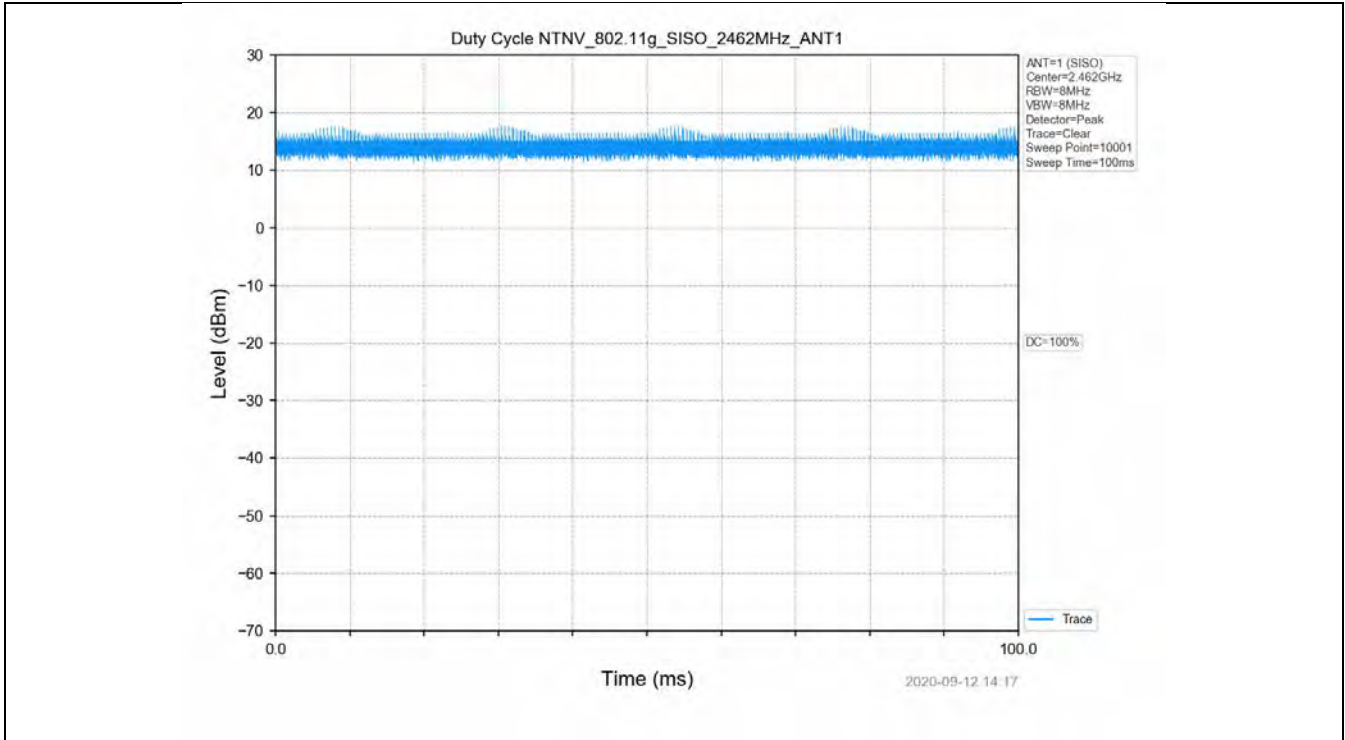
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
802.11g	2412	SISO	1	100.000	100.000	100.00	0.00
	2437	SISO	1	100.000	100.000	100.00	0.00
	2462	SISO	1	100.000	100.000	100.00	0.00
802.11n(HT20)	2412	MIMO	1	100.000	100.000	100.00	0.00
	2437	MIMO	1	100.000	100.000	100.00	0.00
	2462	MIMO	1	100.000	100.000	100.00	0.00
802.11n(HT40)	2422	MIMO	1	100.000	100.000	100.00	0.00
	2437	MIMO	1	100.000	100.000	100.00	0.00
	2452	MIMO	1	100.000	100.000	100.00	0.00

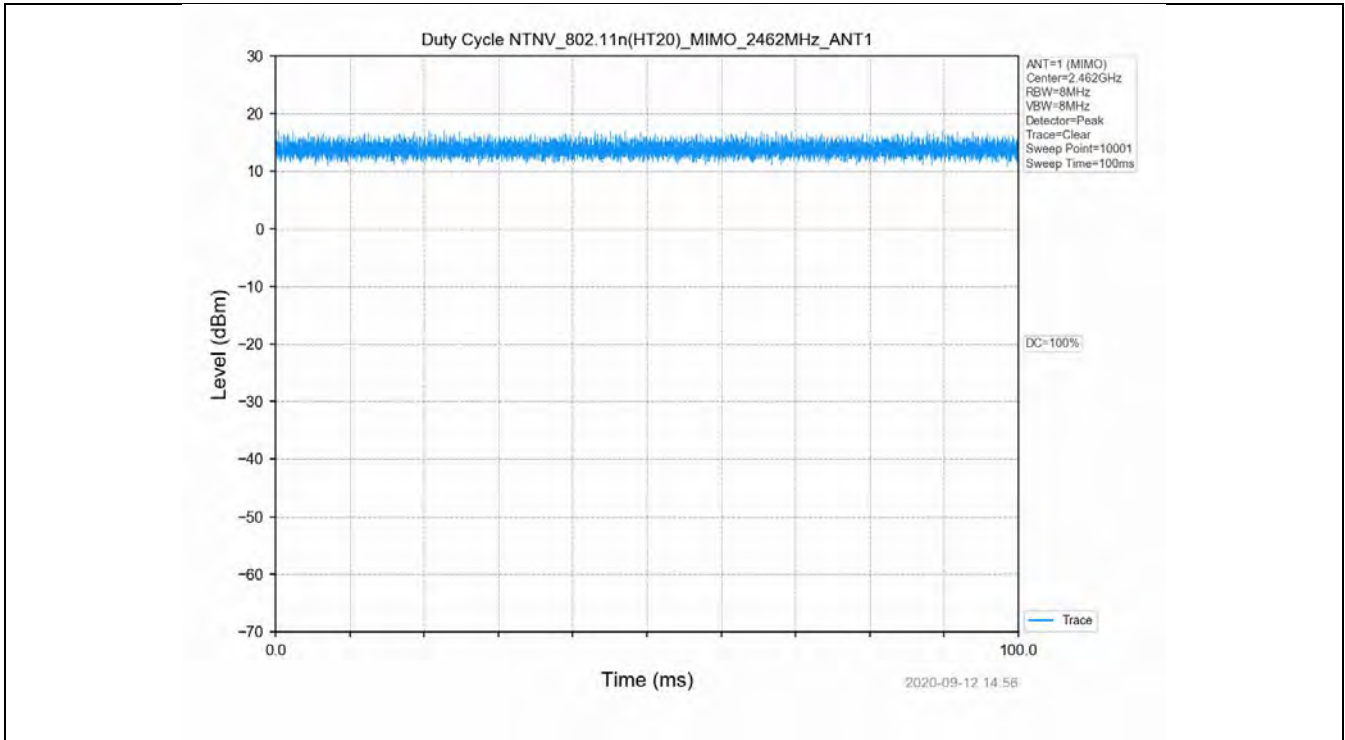
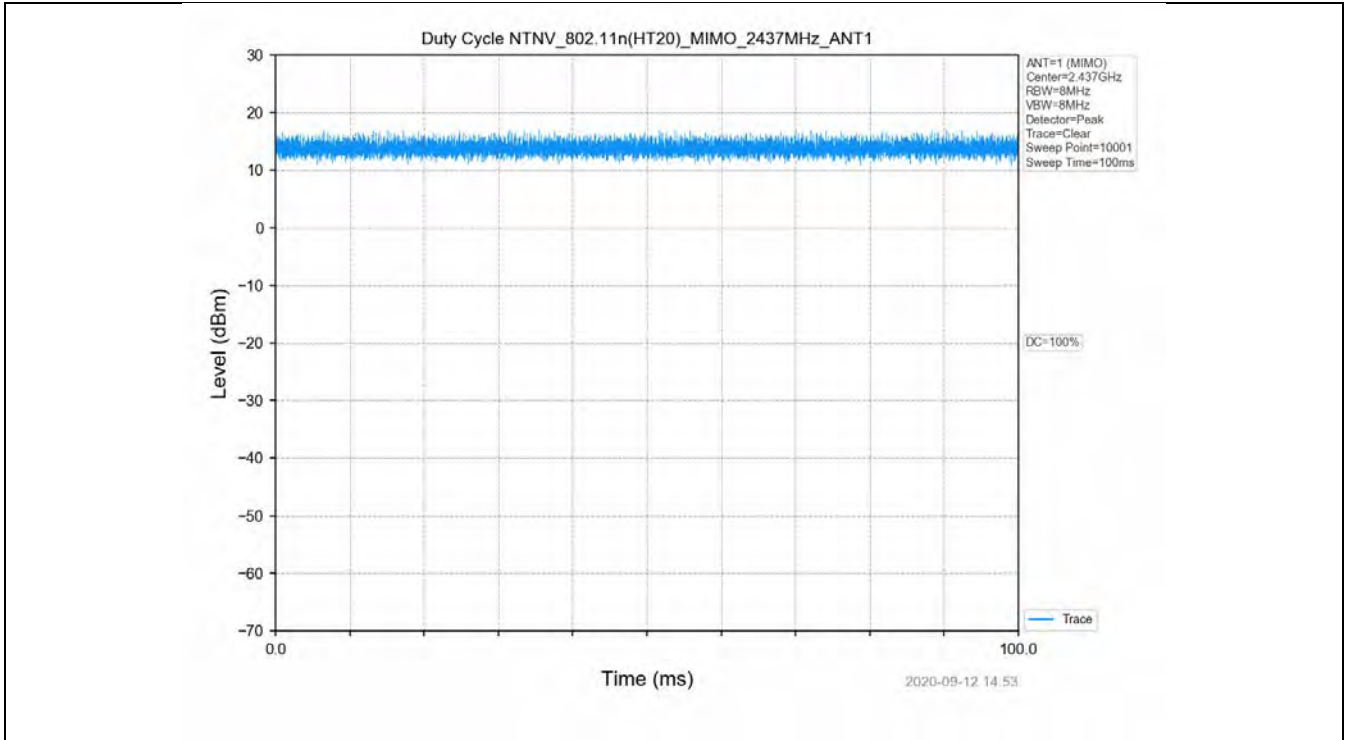
#### 1.2 Test Graph

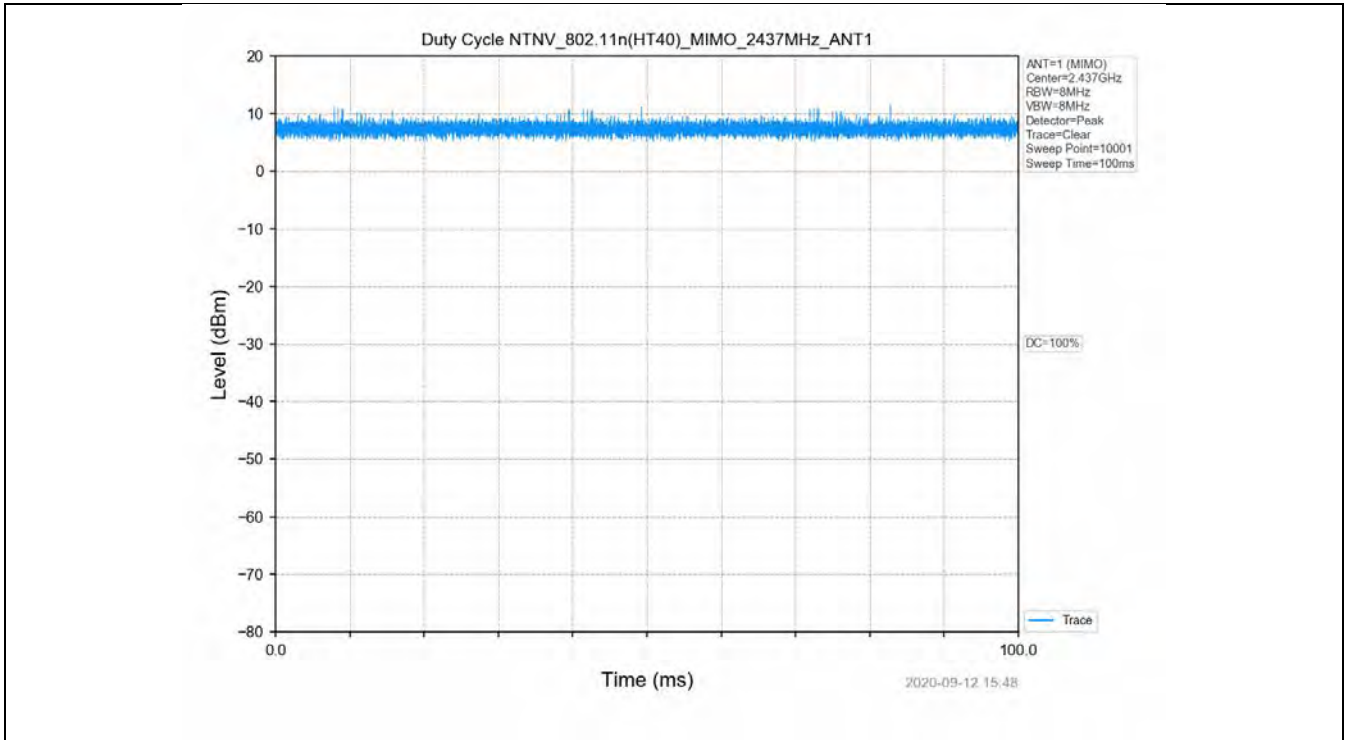
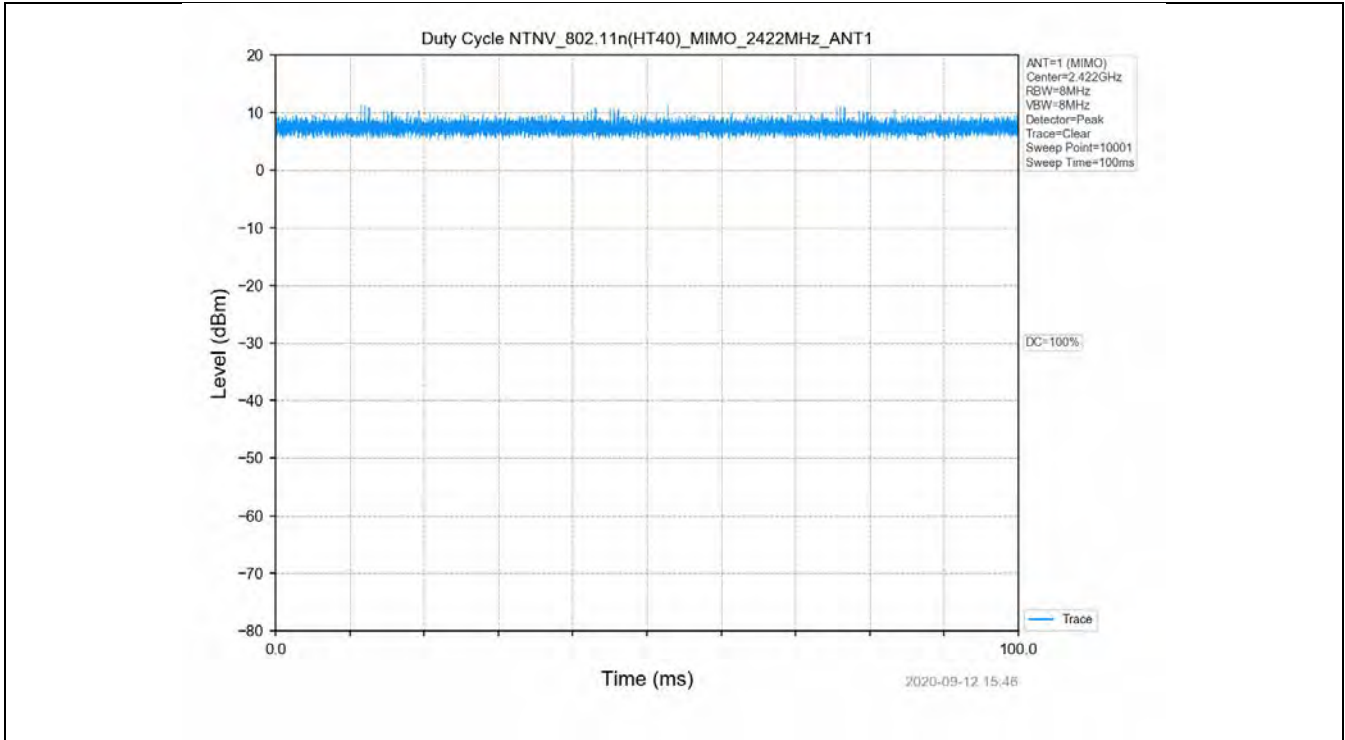


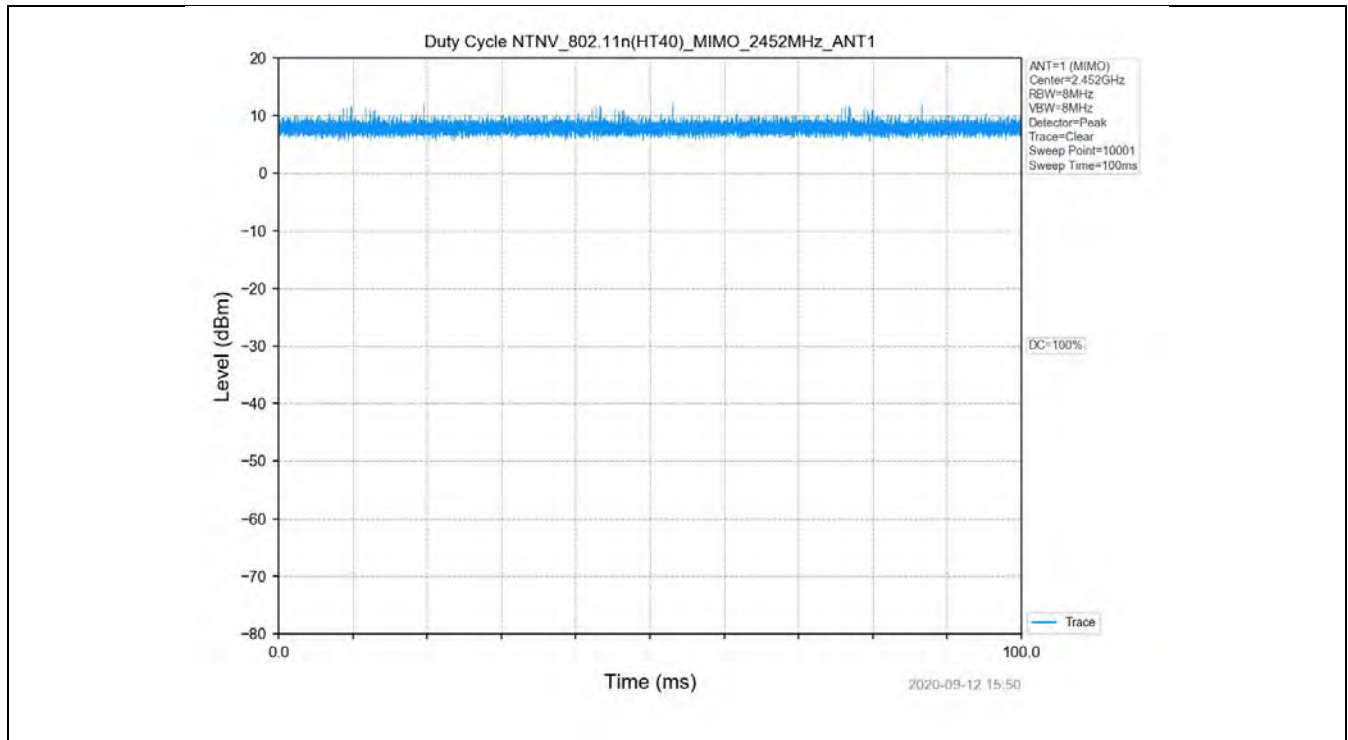












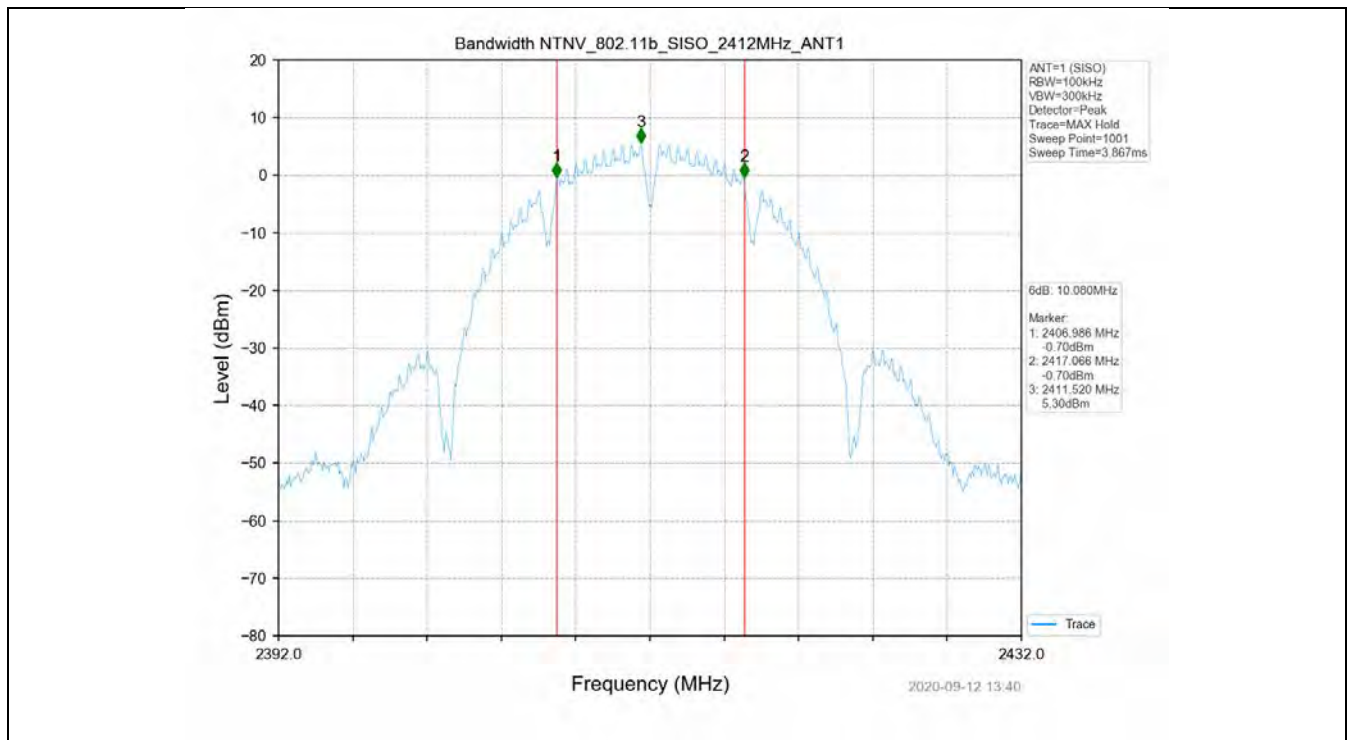
## 2. Bandwidth

### 2.1 Test Result

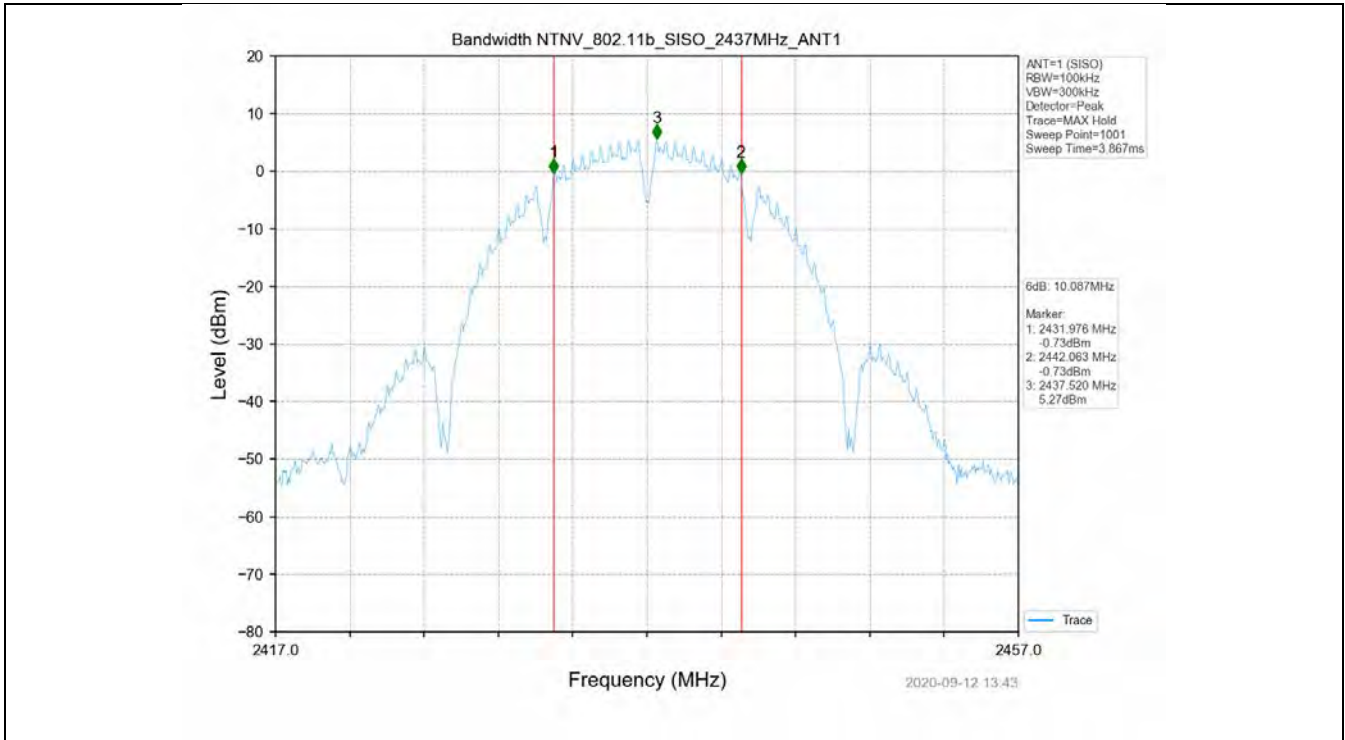
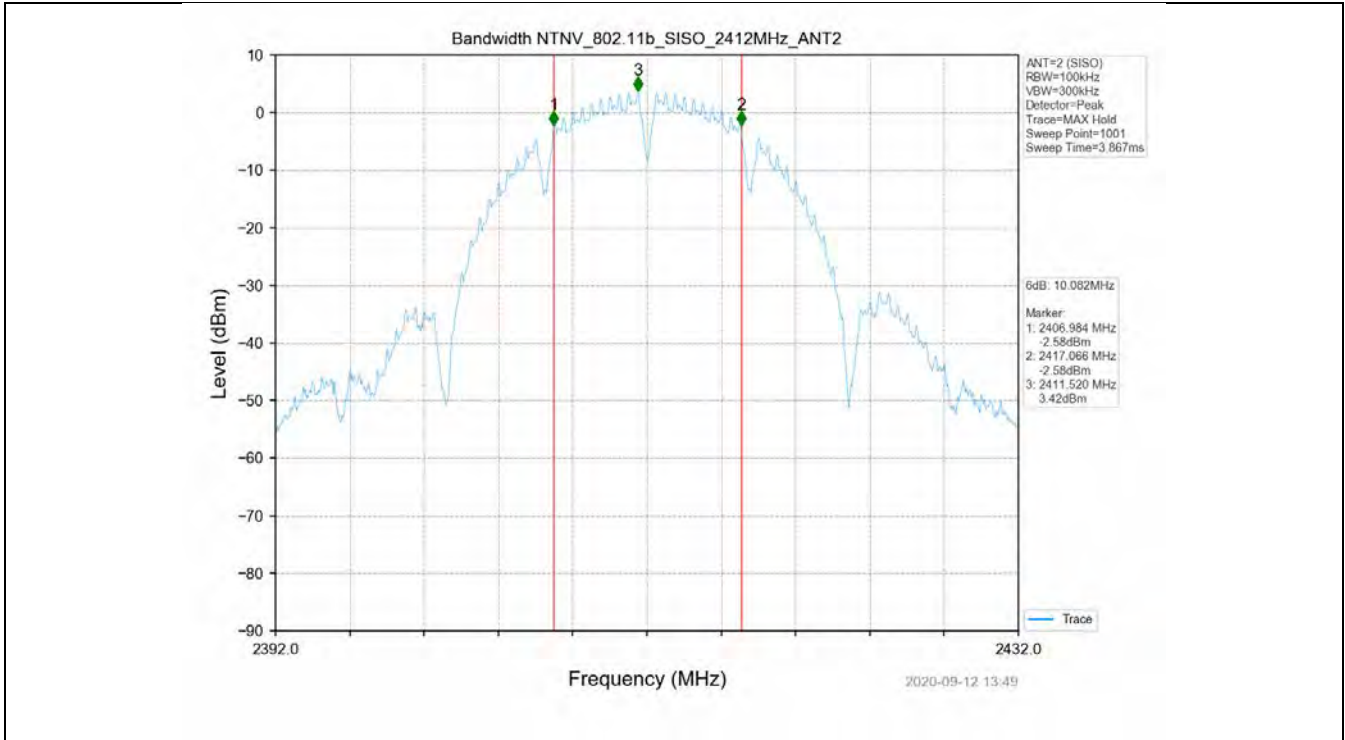
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	10.080	≥0.5	PASS
			2	10.082	≥0.5	PASS
	2437	SISO	1	10.087	≥0.5	PASS
			2	10.099	≥0.5	PASS
	2462	SISO	1	10.096	≥0.5	PASS
			2	10.099	≥0.5	PASS
802.11g	2412	SISO	1	16.625	≥0.5	PASS
			2	16.591	≥0.5	PASS
	2437	SISO	1	16.629	≥0.5	PASS
			2	16.608	≥0.5	PASS
	2462	SISO	1	16.628	≥0.5	PASS
			2	16.612	≥0.5	PASS
802.11n(HT20)	2412	MIMO	1	17.842	≥0.5	PASS
			2	17.821	≥0.5	PASS
	2437	MIMO	1	17.838	≥0.5	PASS
			2	17.851	≥0.5	PASS
	2462	MIMO	1	17.839	≥0.5	PASS
			2	17.846	≥0.5	PASS
802.11n(HT40)	2422	MIMO	1	36.542	≥0.5	PASS
			2	36.519	≥0.5	PASS
	2437	MIMO	1	36.520	≥0.5	PASS
			2	36.539	≥0.5	PASS
	2452	MIMO	1	36.542	≥0.5	PASS
			2	36.516	≥0.5	PASS

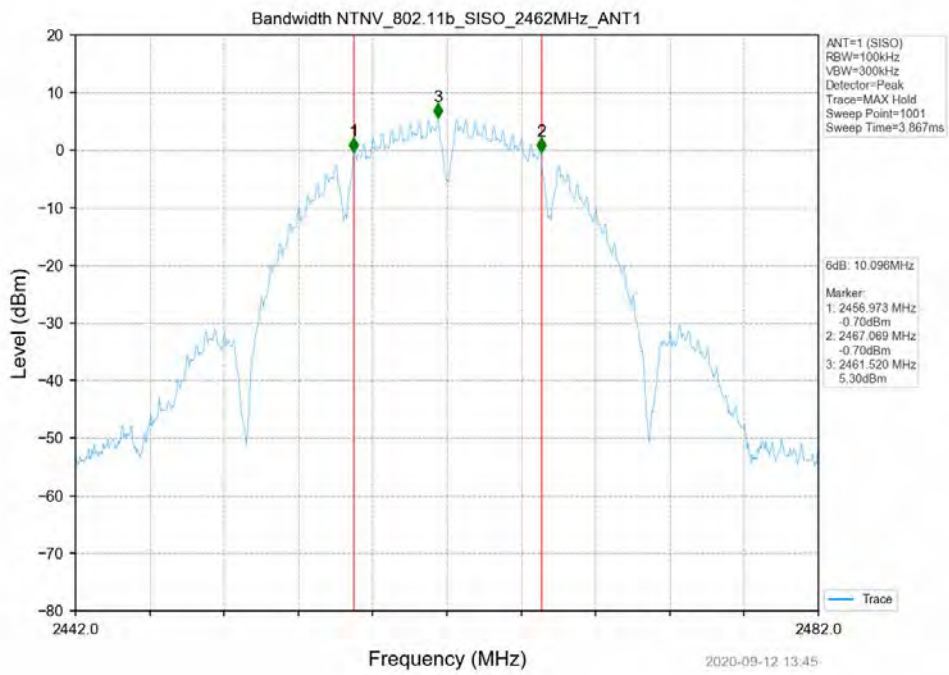
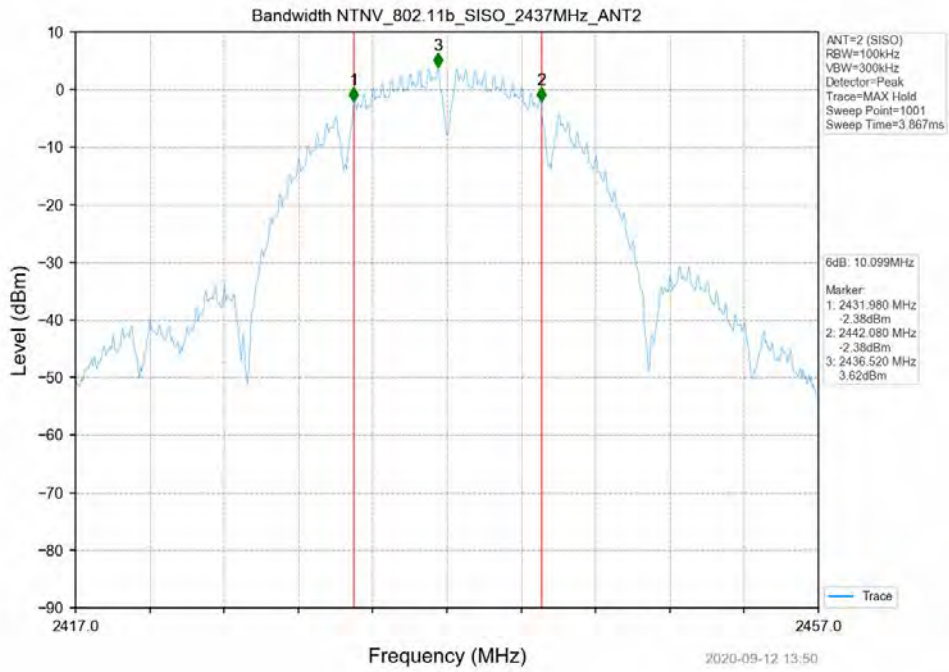
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	15.074	Only for Report Use
			2	15.093	Only for Report Use
	2437	SISO	1	15.078	Only for Report Use
			2	15.091	Only for Report Use
	2462	SISO	1	15.079	Only for Report Use
			2	15.098	Only for Report Use
802.11g	2412	SISO	1	17.033	Only for Report Use
			2	16.899	Only for Report Use
	2437	SISO	1	17.041	Only for Report Use
			2	16.904	Only for Report Use
	2462	SISO	1	17.053	Only for Report Use
			2	16.906	Only for Report Use
802.11n(HT20)	2412	MIMO	1	18.028	Only for Report Use
			2	18.047	Only for Report Use
	2437	MIMO	1	18.030	Only for Report Use
			2	18.046	Only for Report Use
	2462	MIMO	1	18.029	Only for Report Use
			2	18.027	Only for Report Use
802.11n(HT40)	2422	MIMO	1	36.719	Only for Report Use
			2	36.682	Only for Report Use
	2437	MIMO	1	36.673	Only for Report Use
			2	36.708	Only for Report Use
	2452	MIMO	1	36.663	Only for Report Use
			2	36.708	Only for Report Use

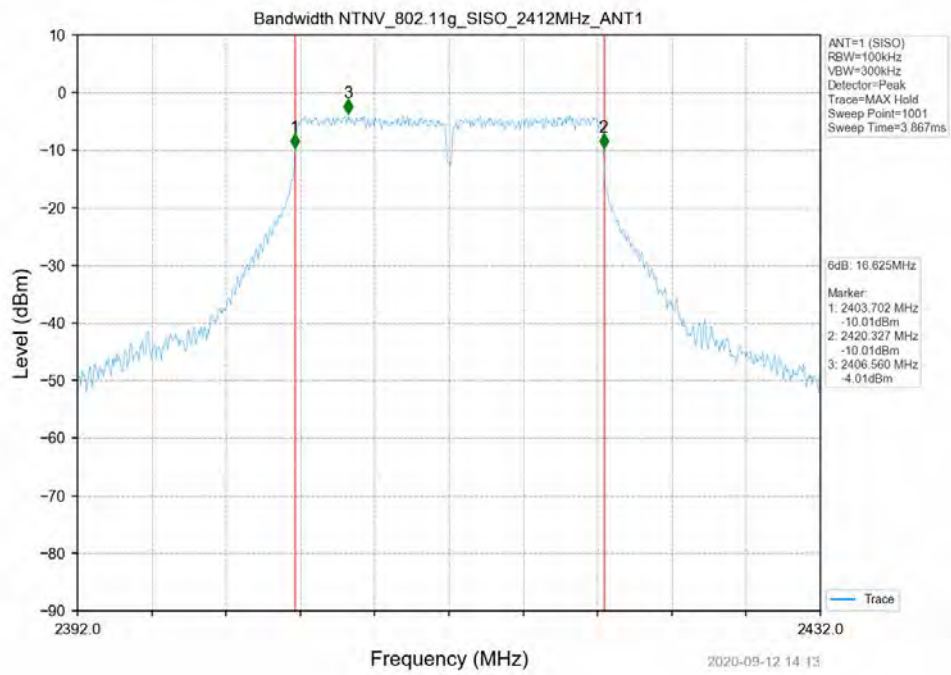
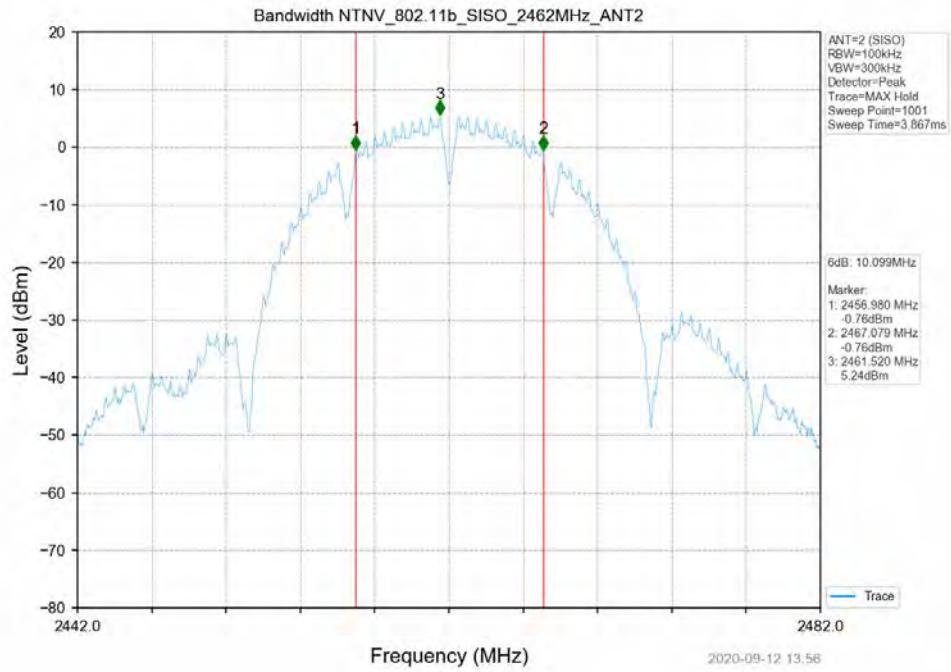
## 2.2 Test Graph - 6dB Bandwidth

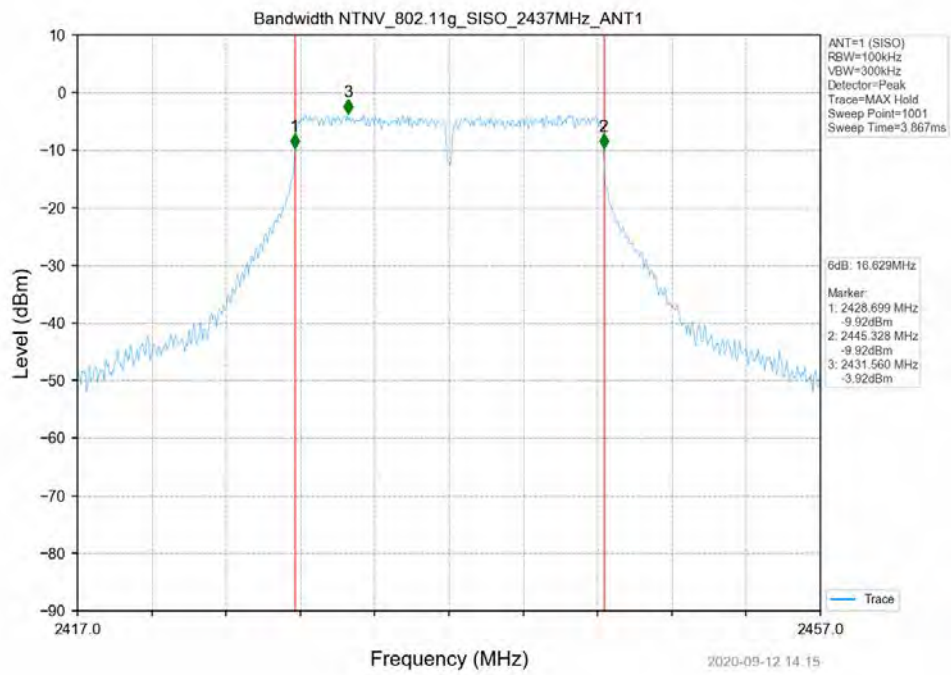
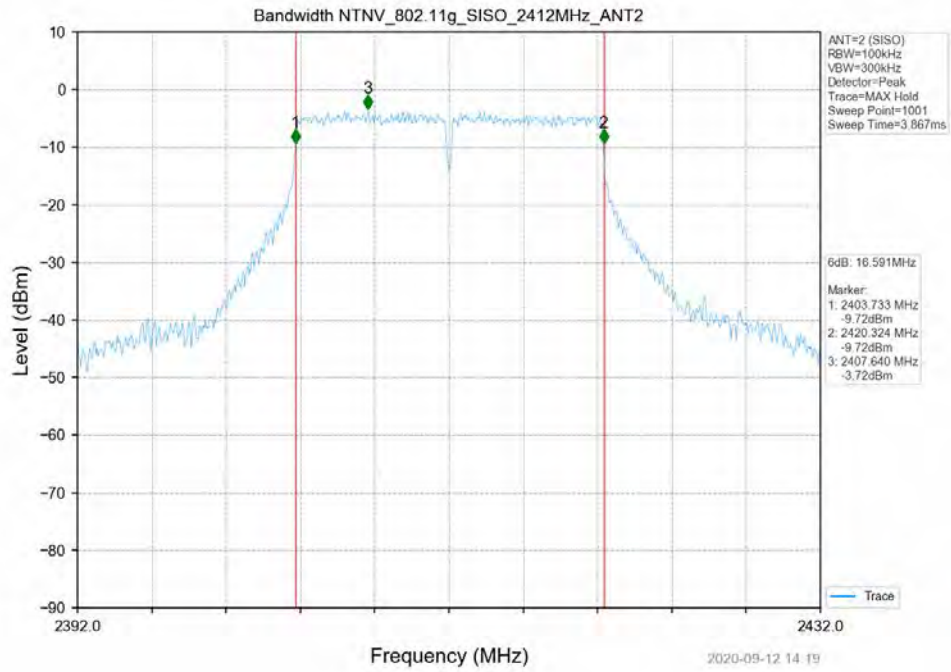


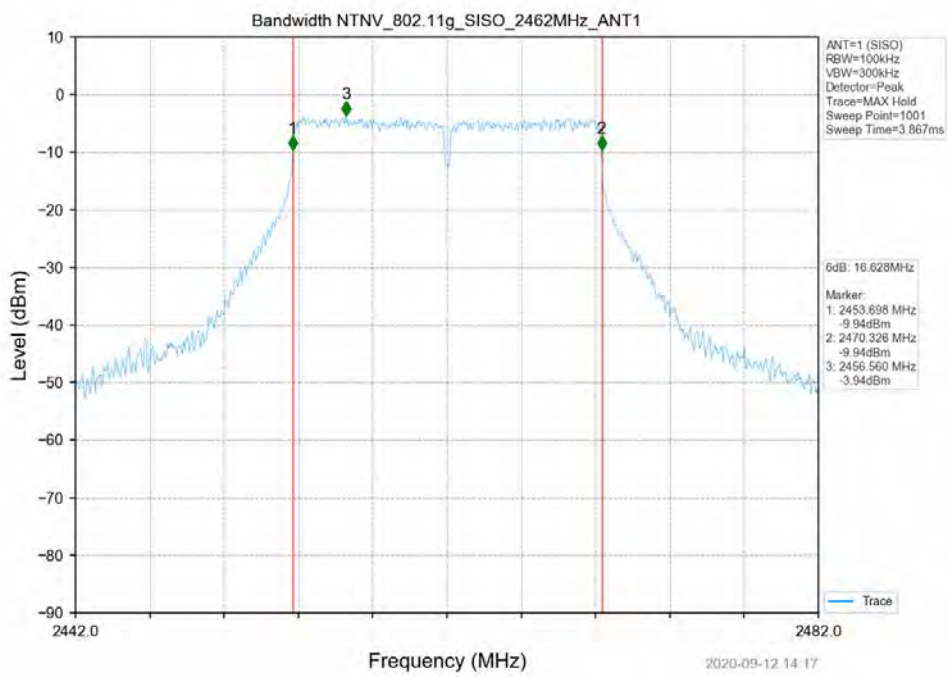
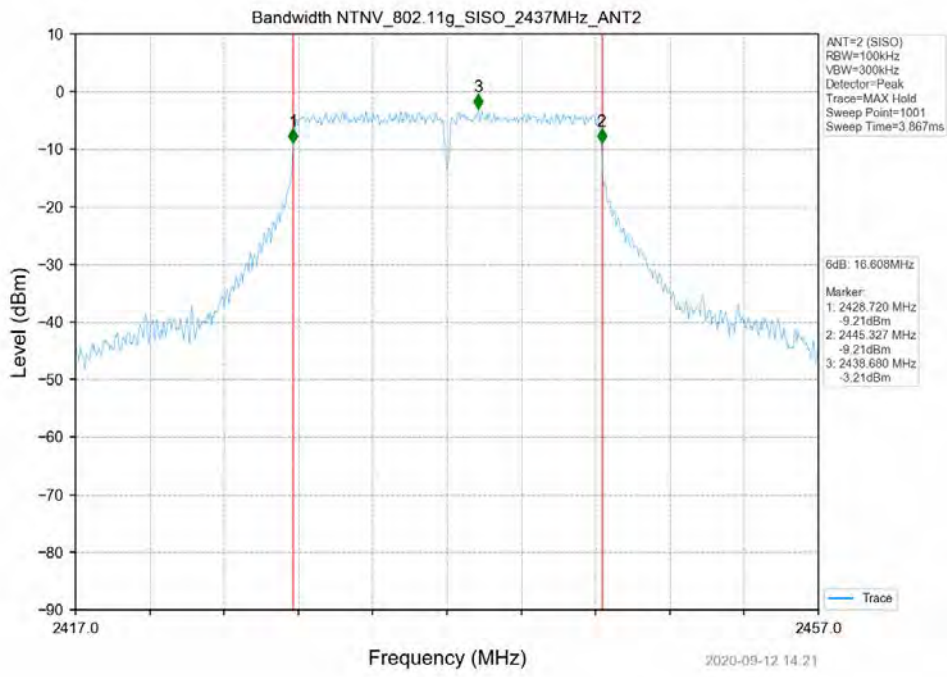


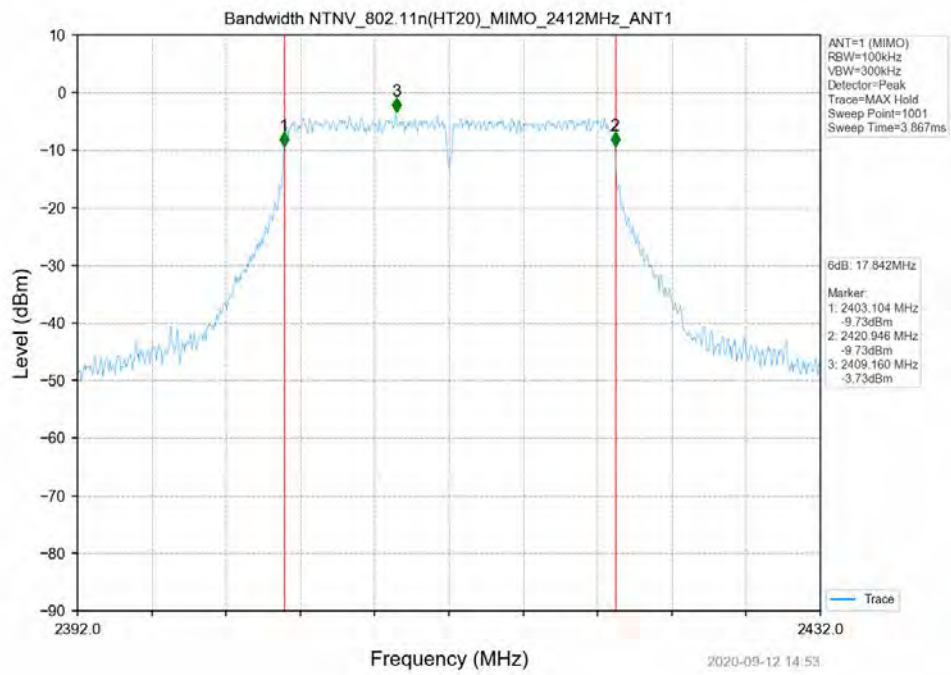
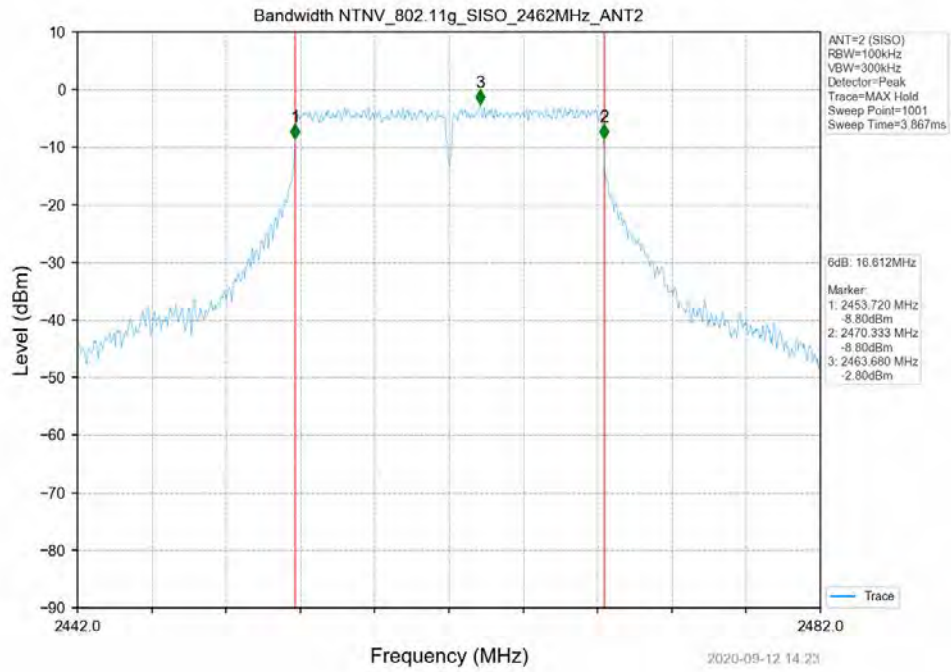


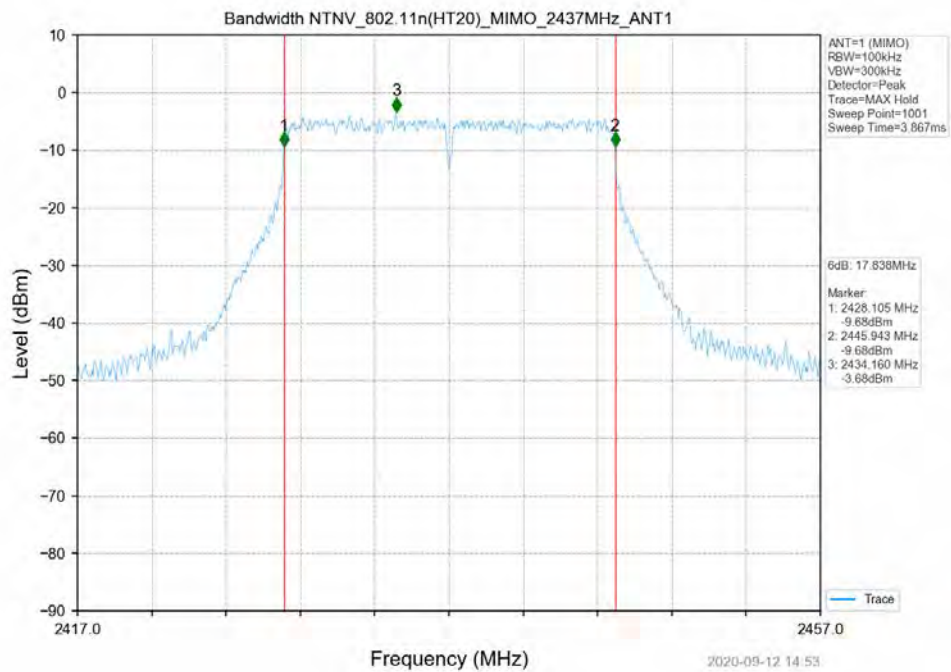
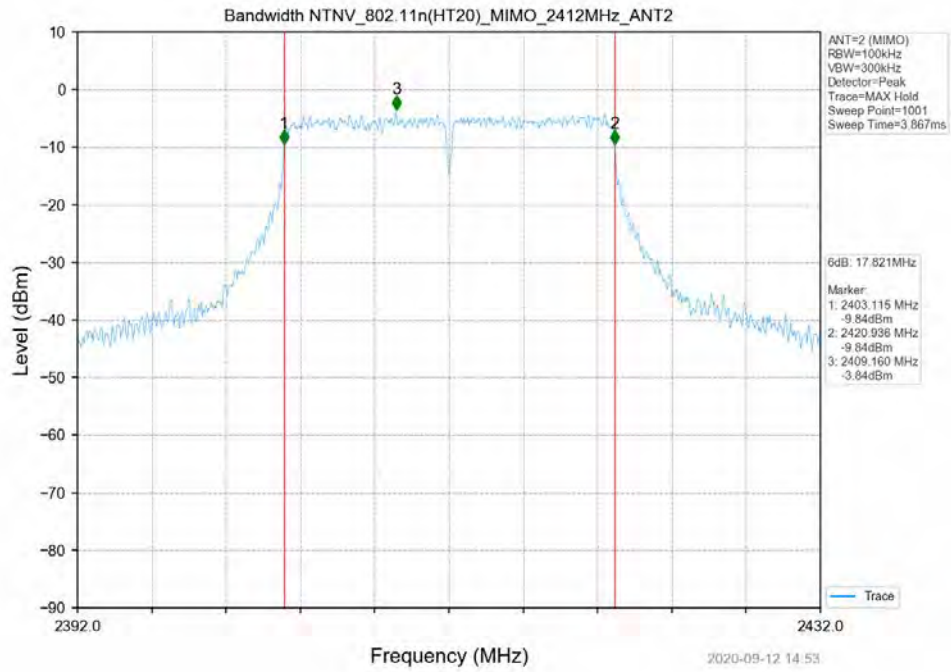


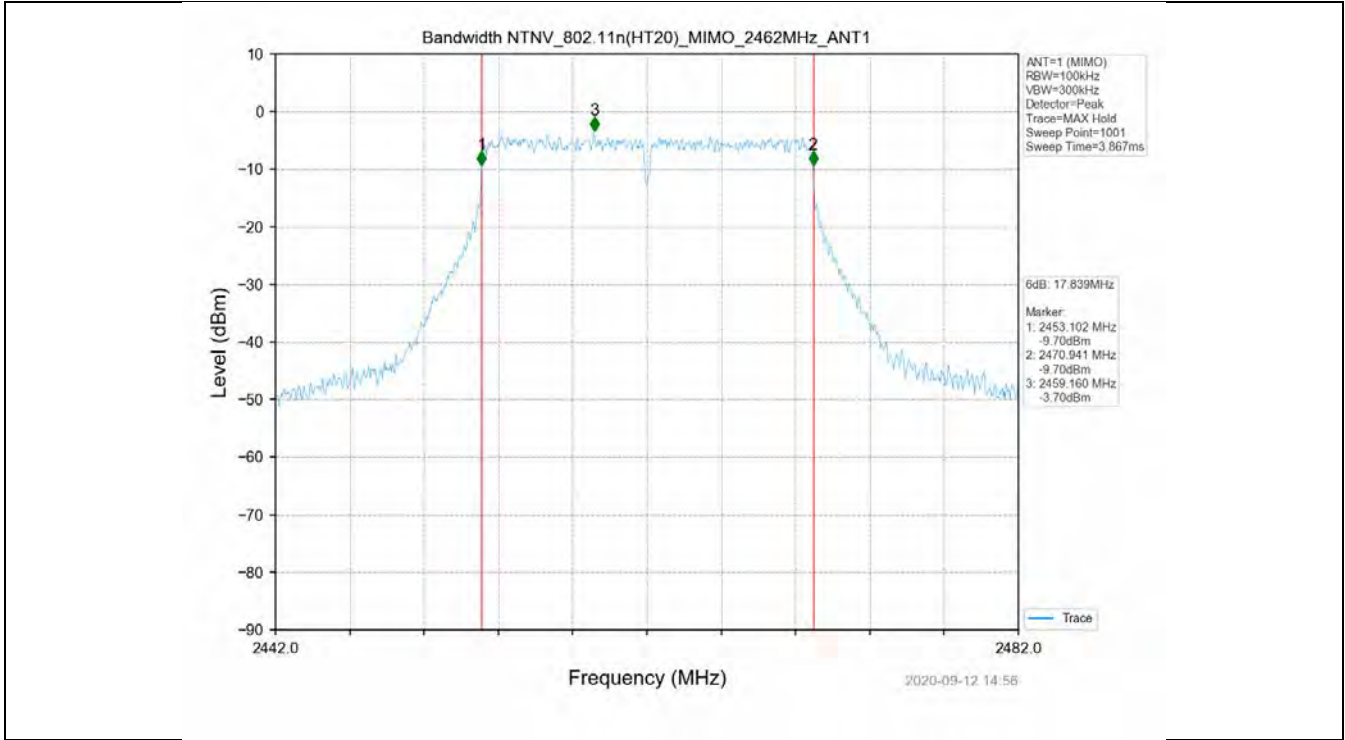
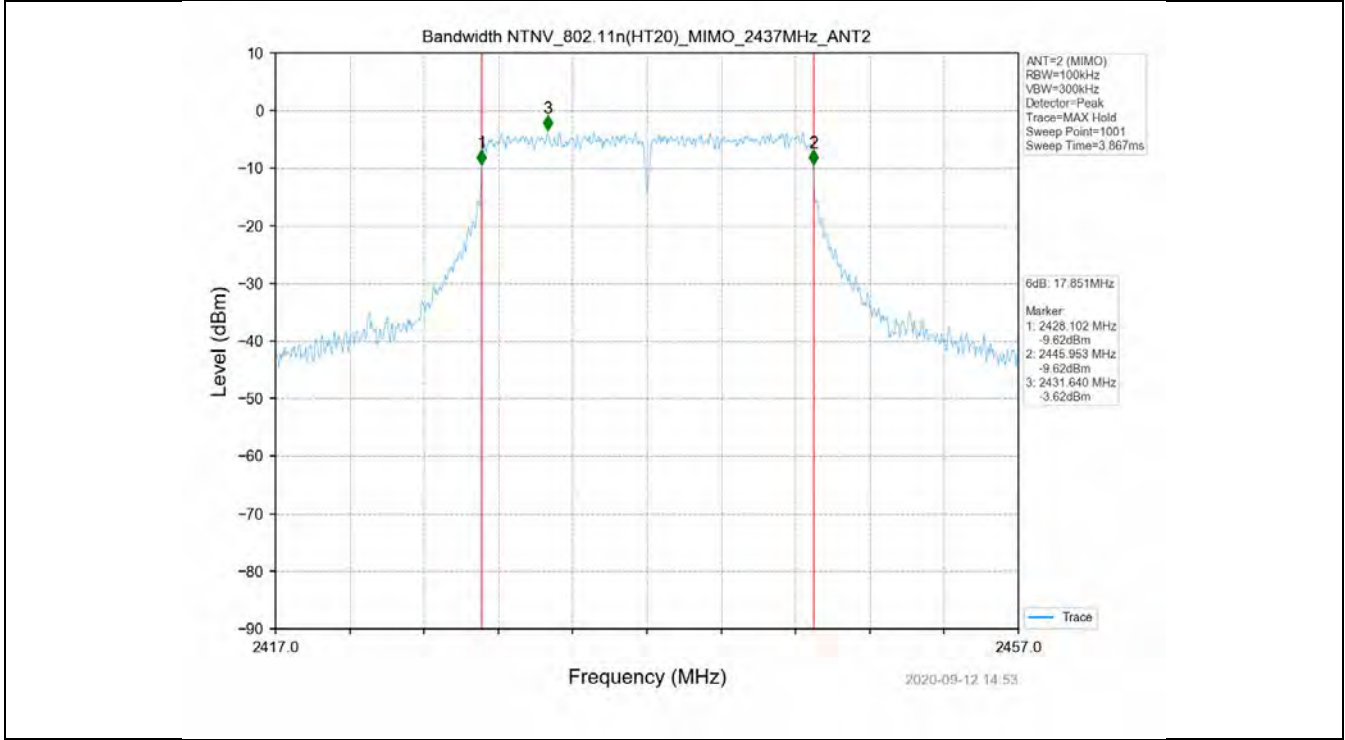




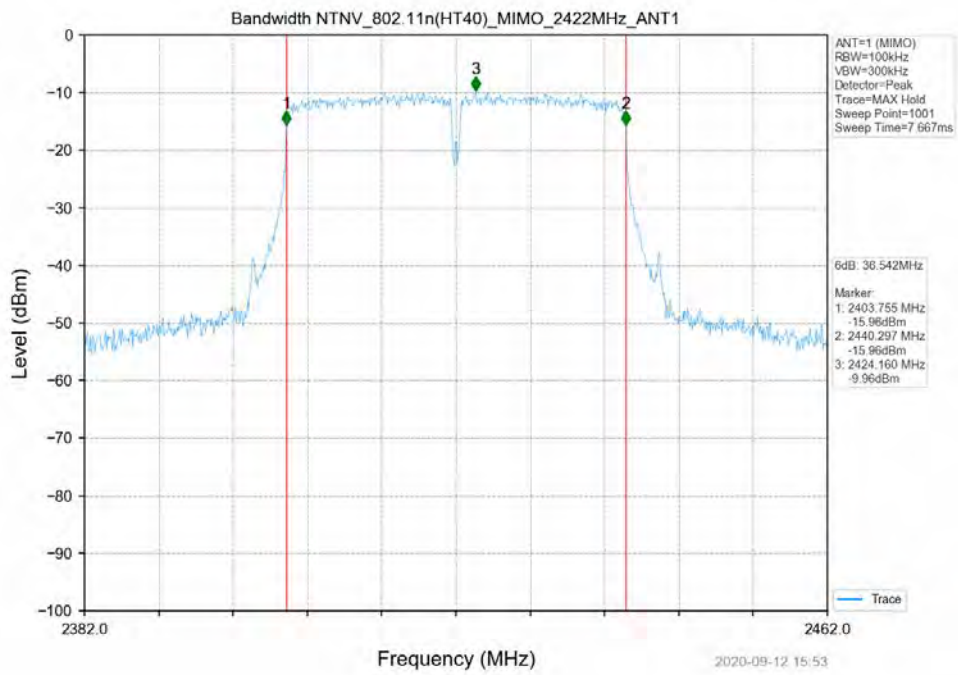
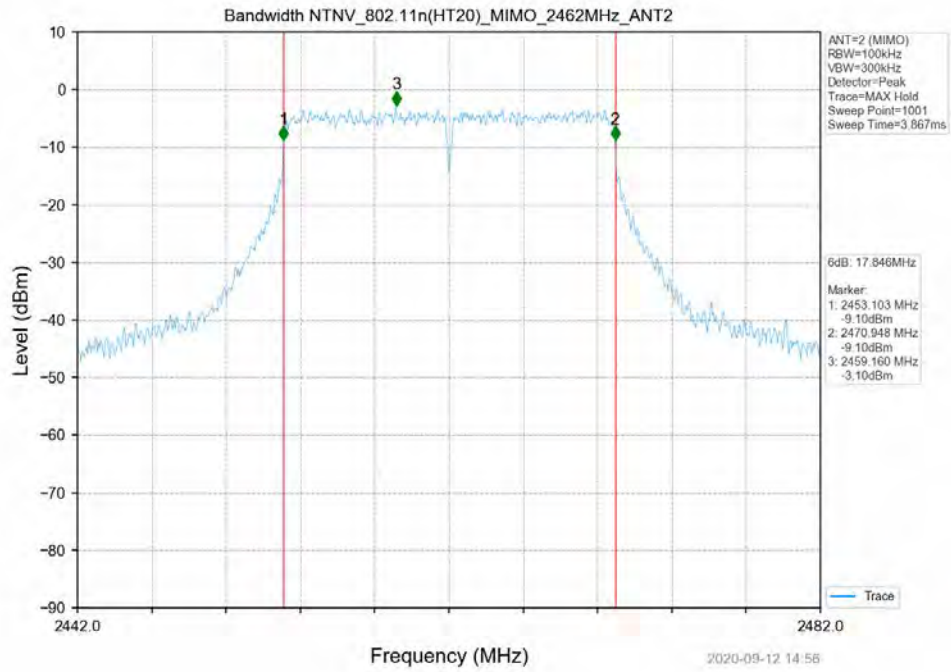


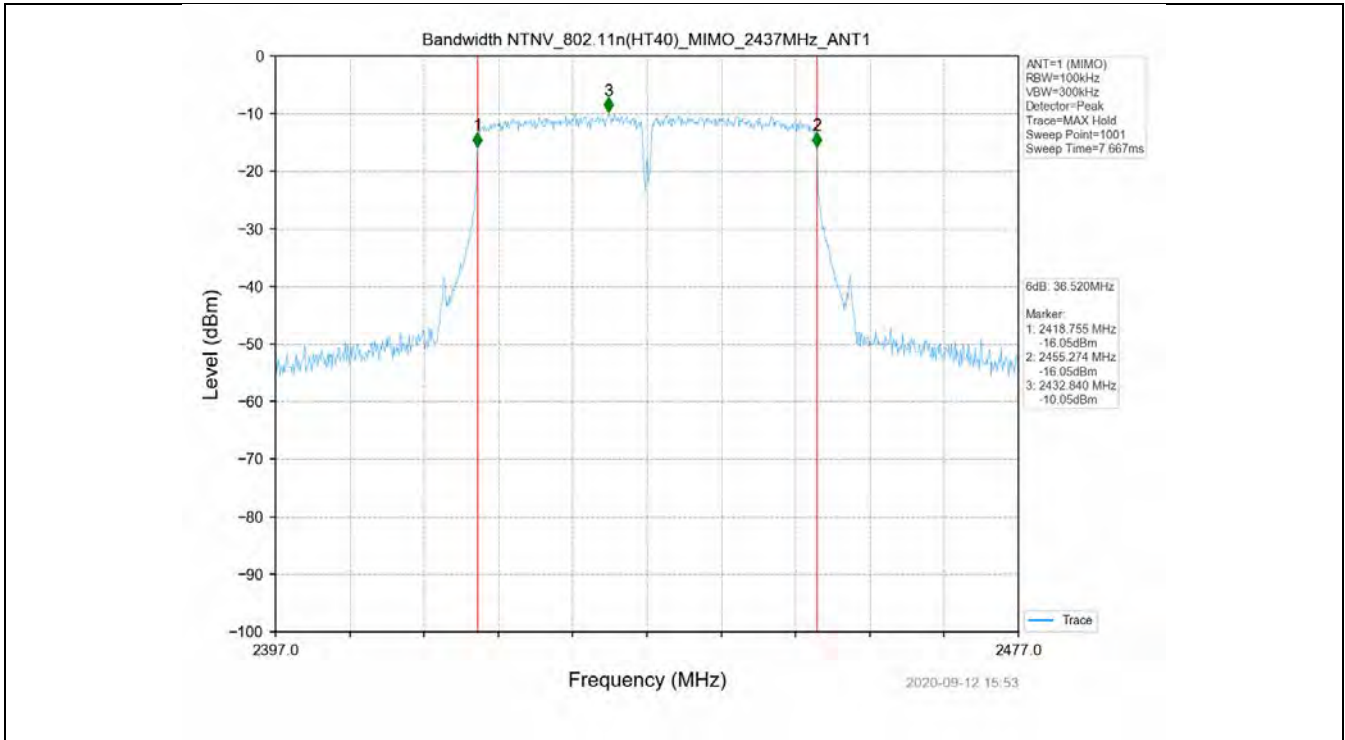
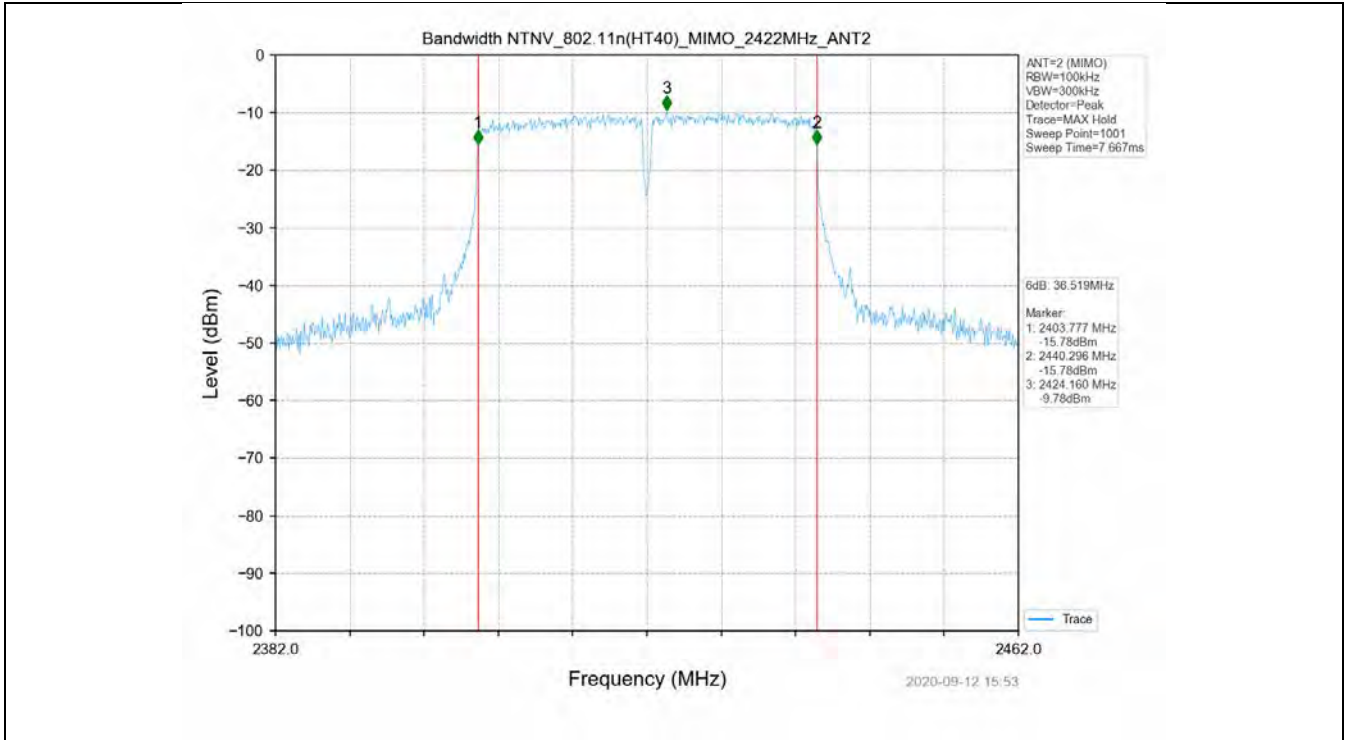


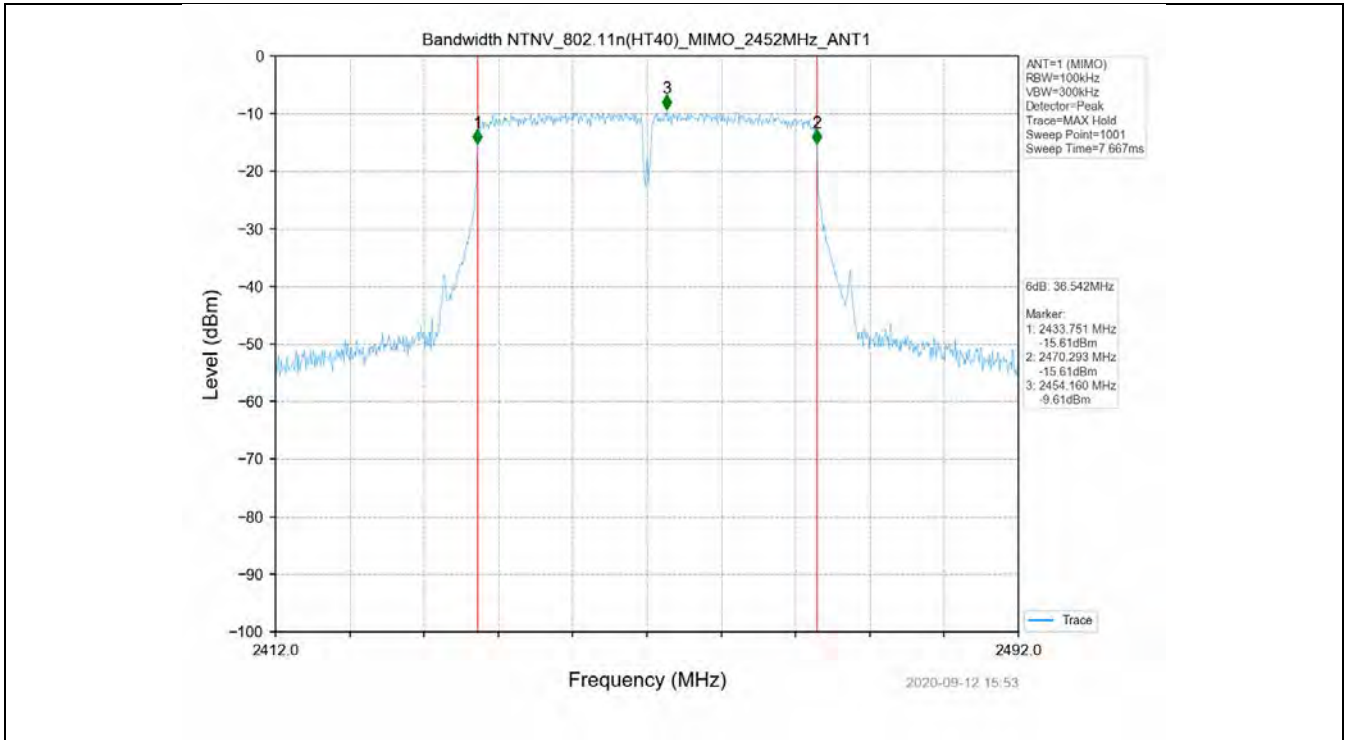
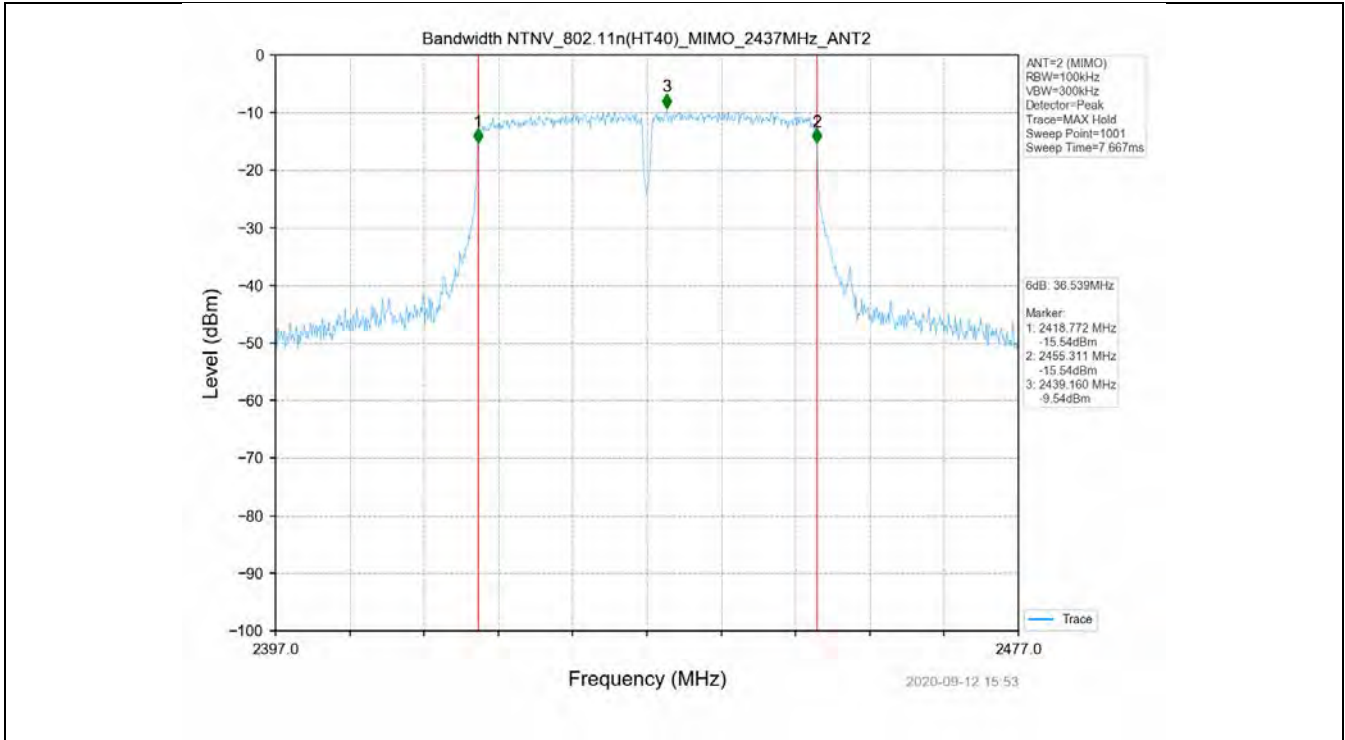


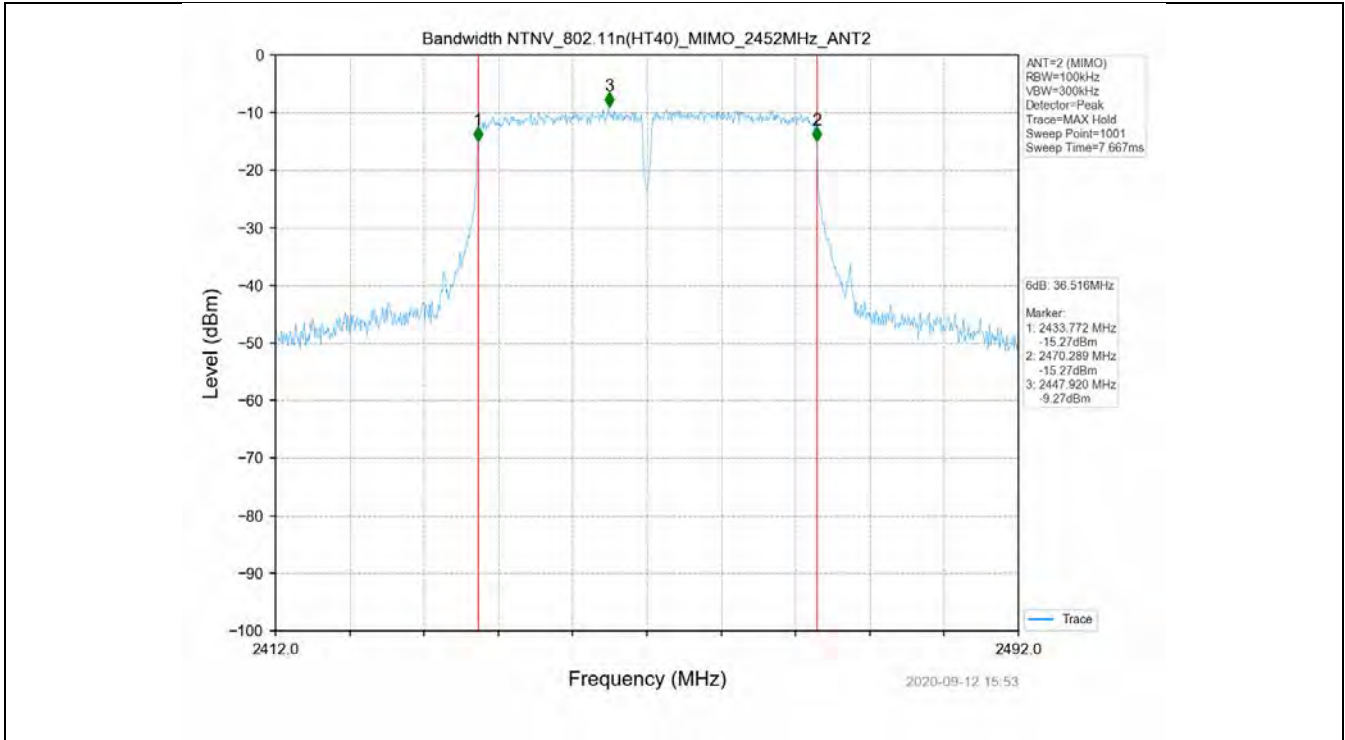




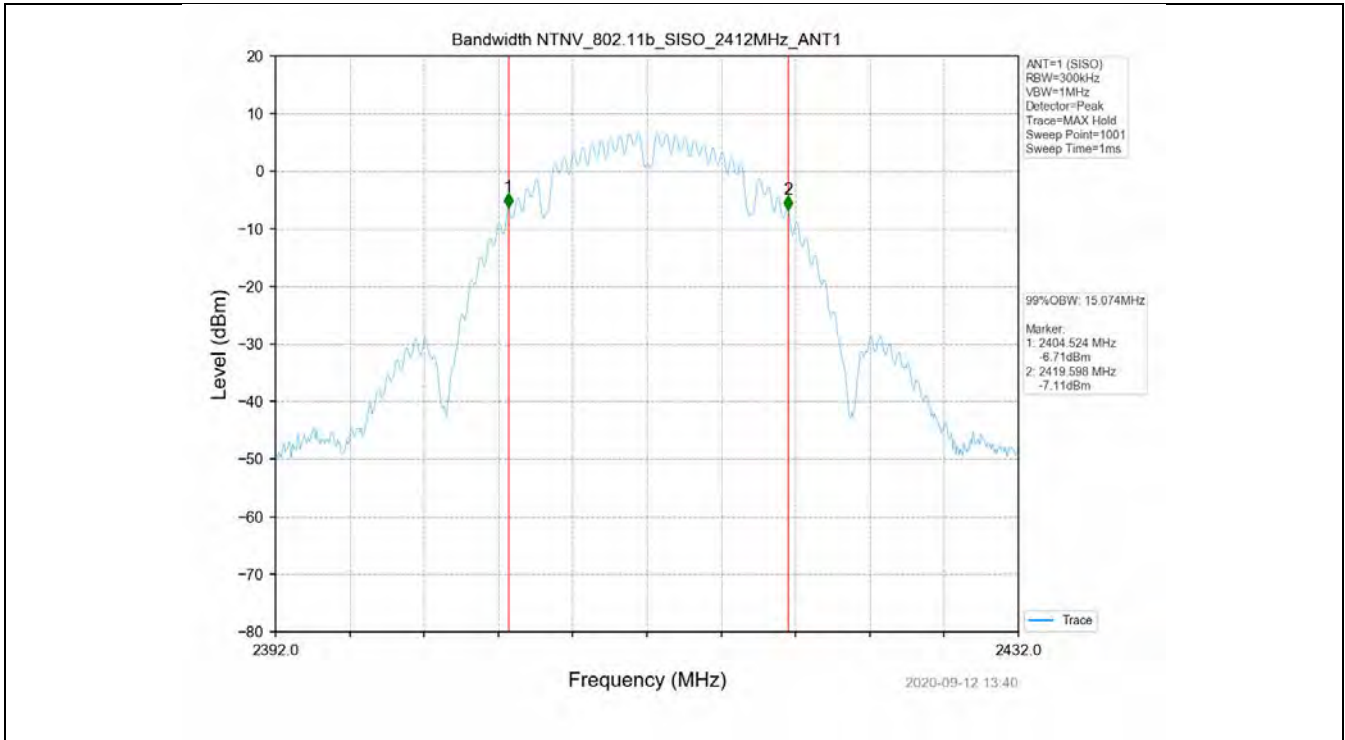


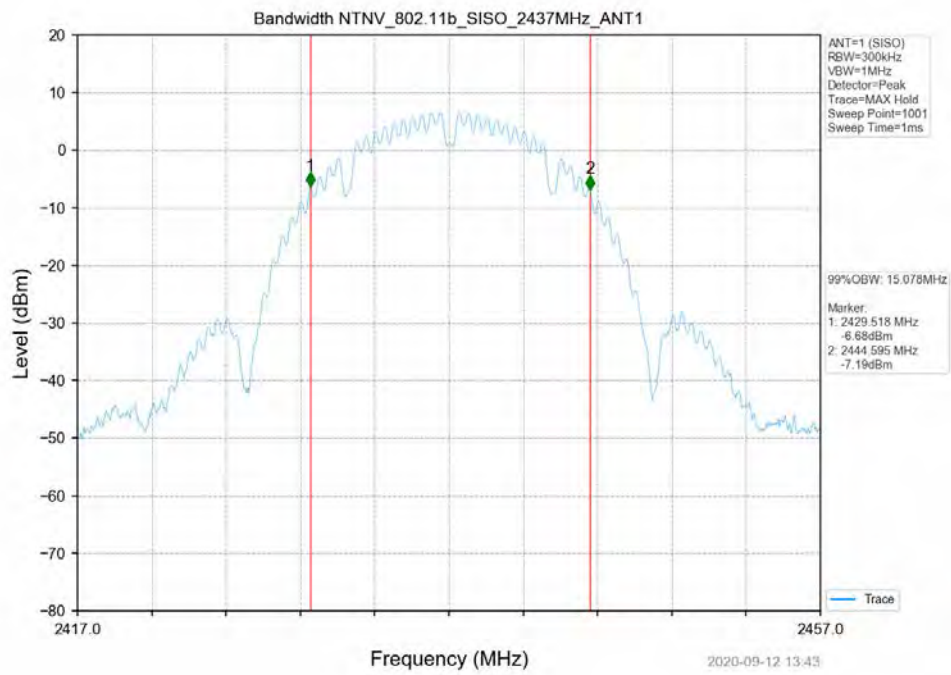
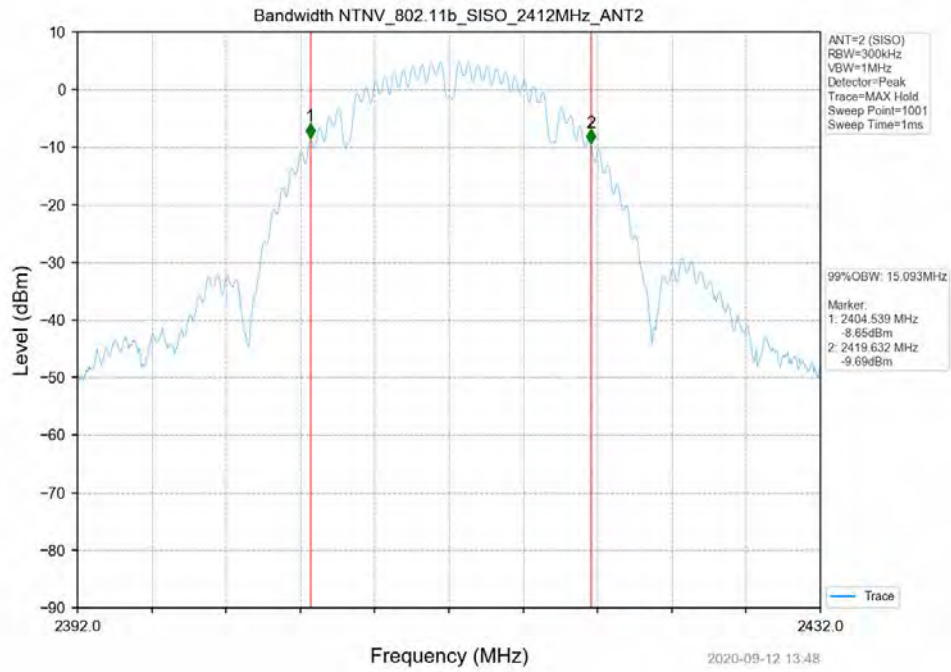


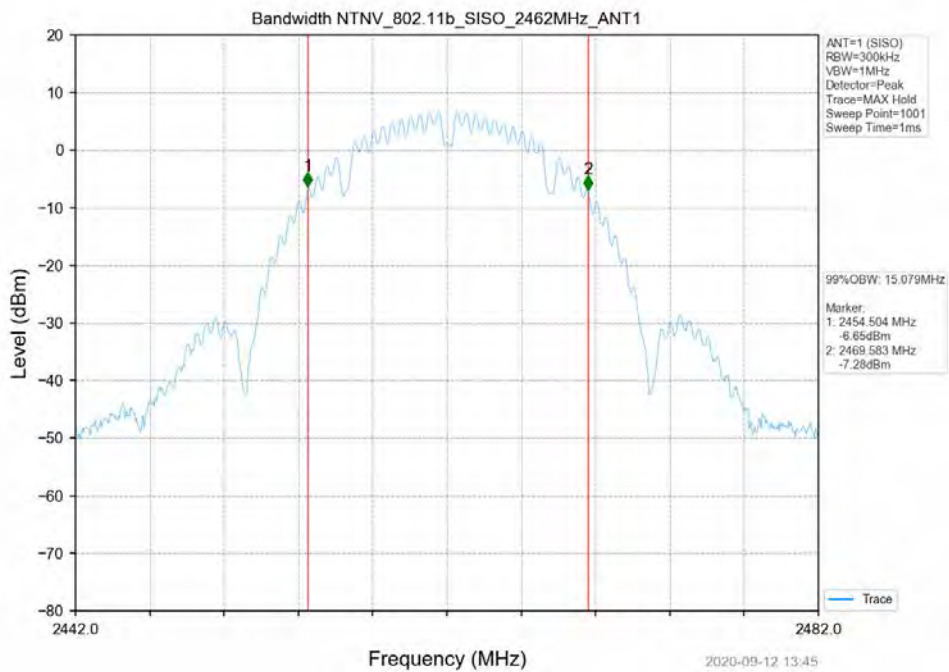
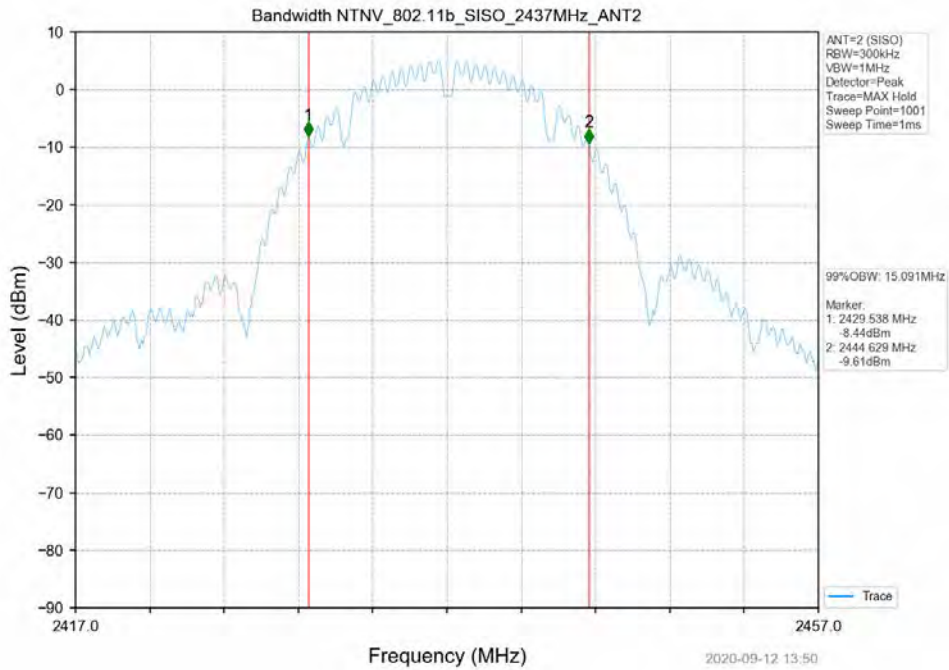


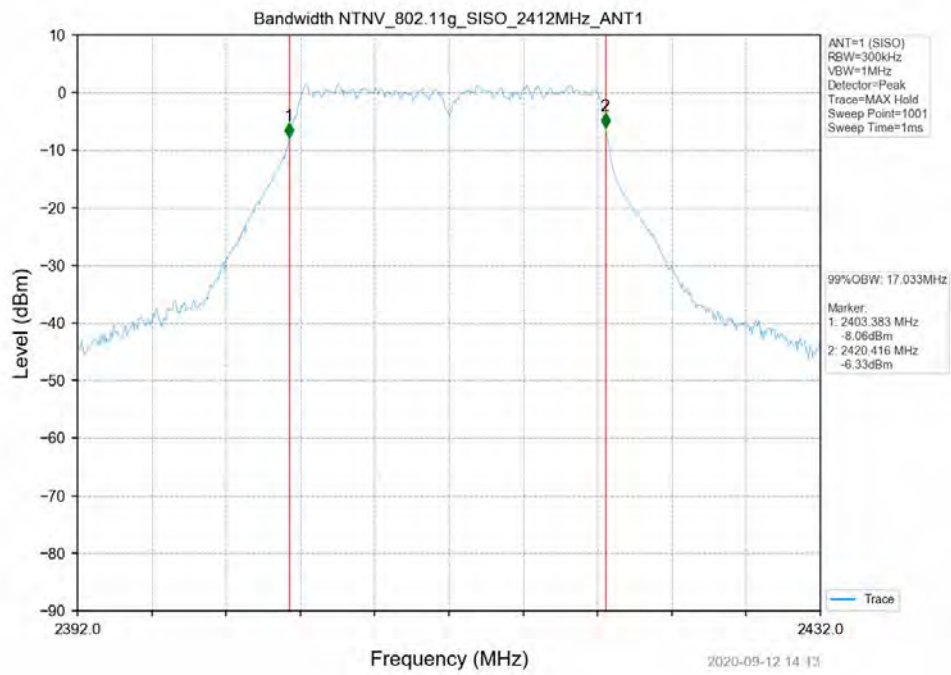
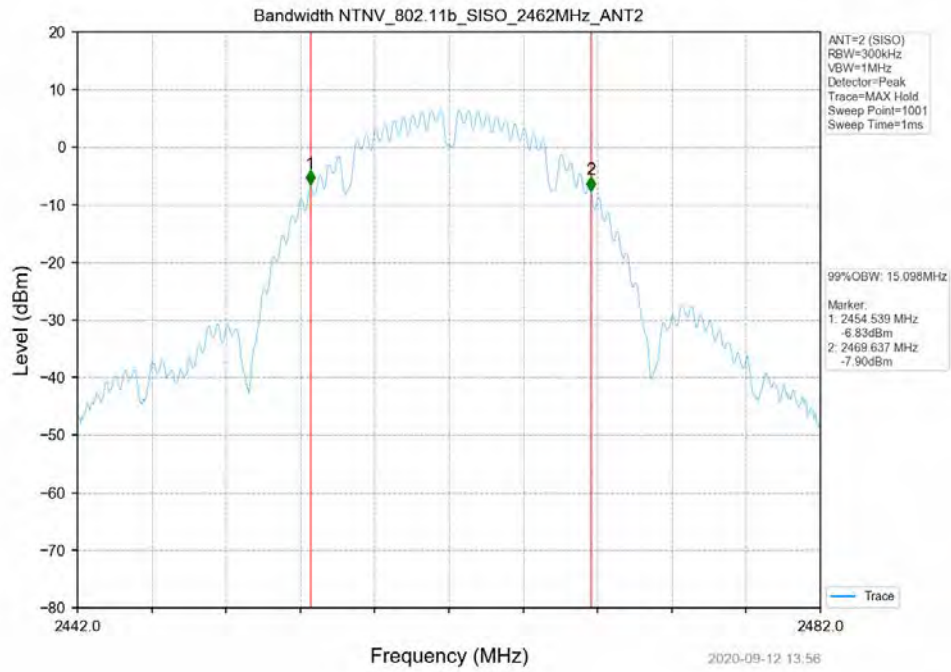


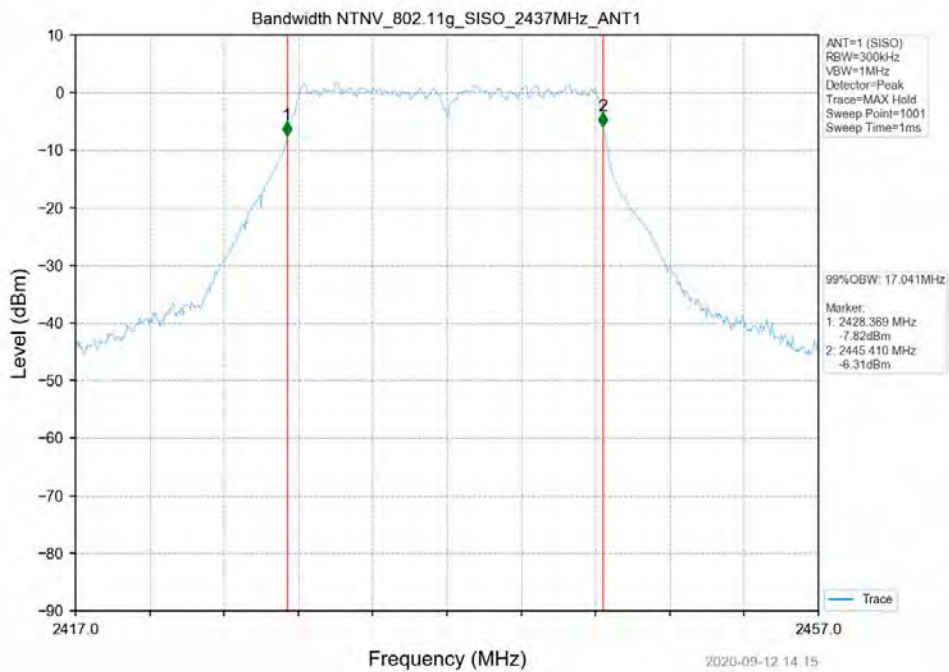
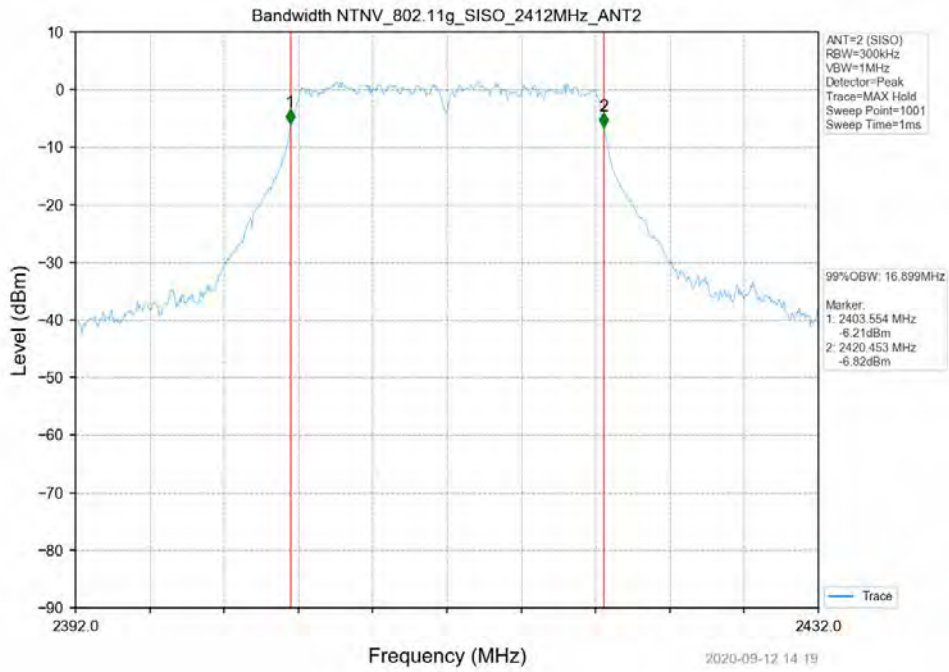
### 2.3 Test Graph - 99% Occupied Bandwidth



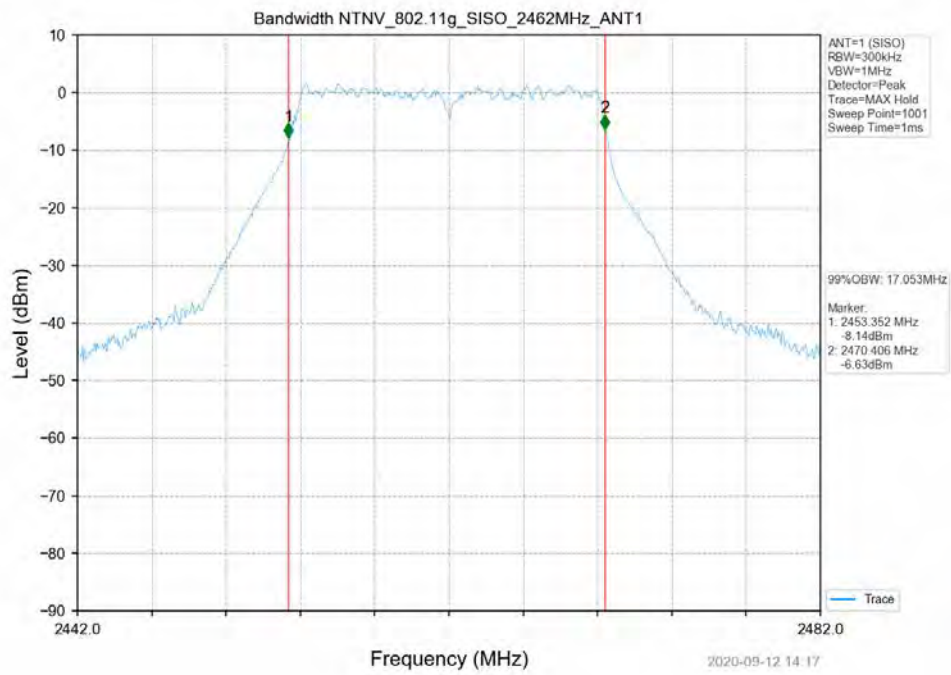
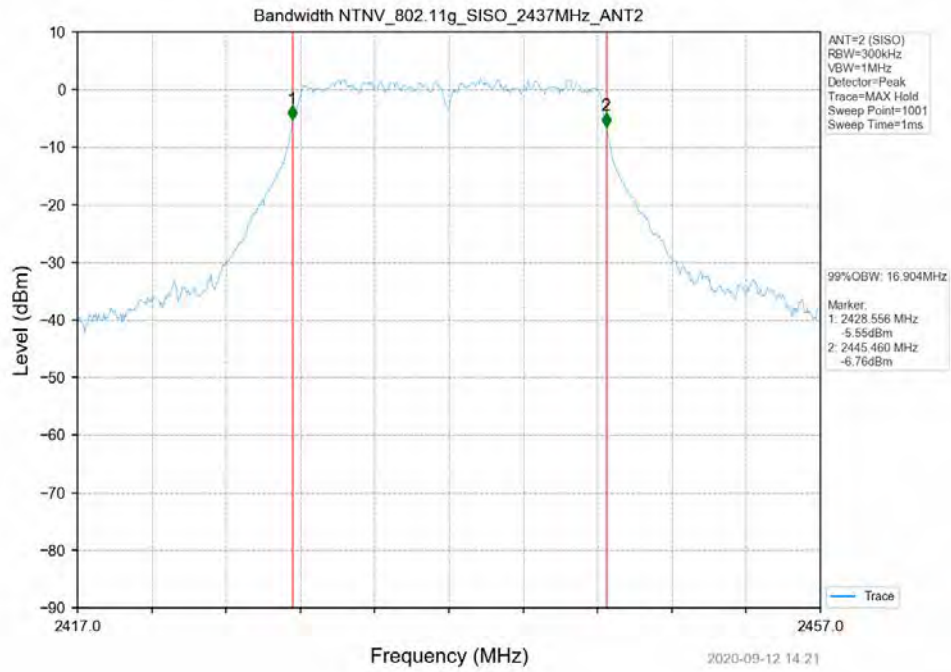


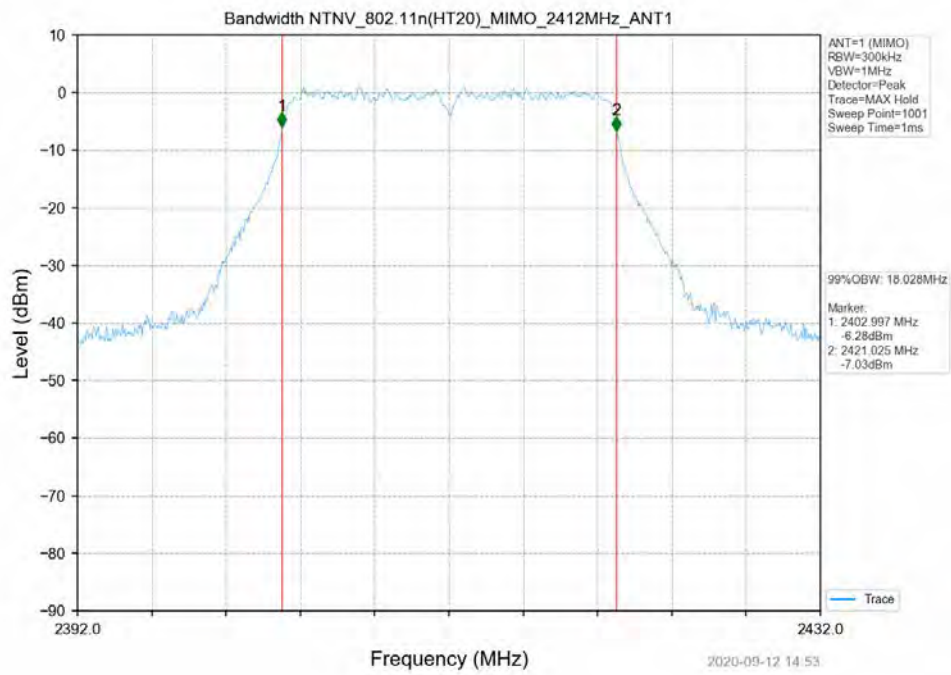
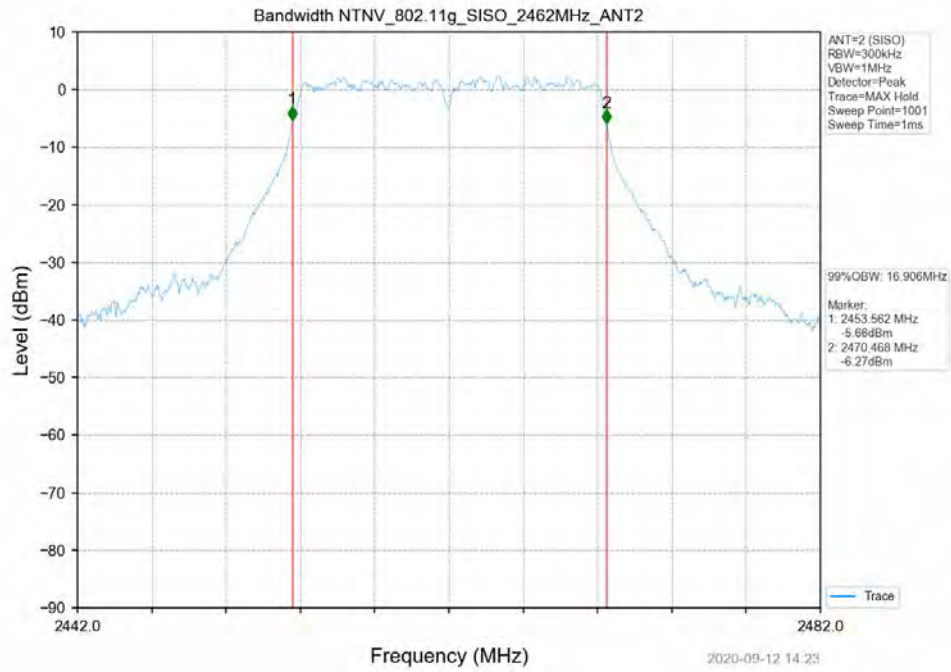


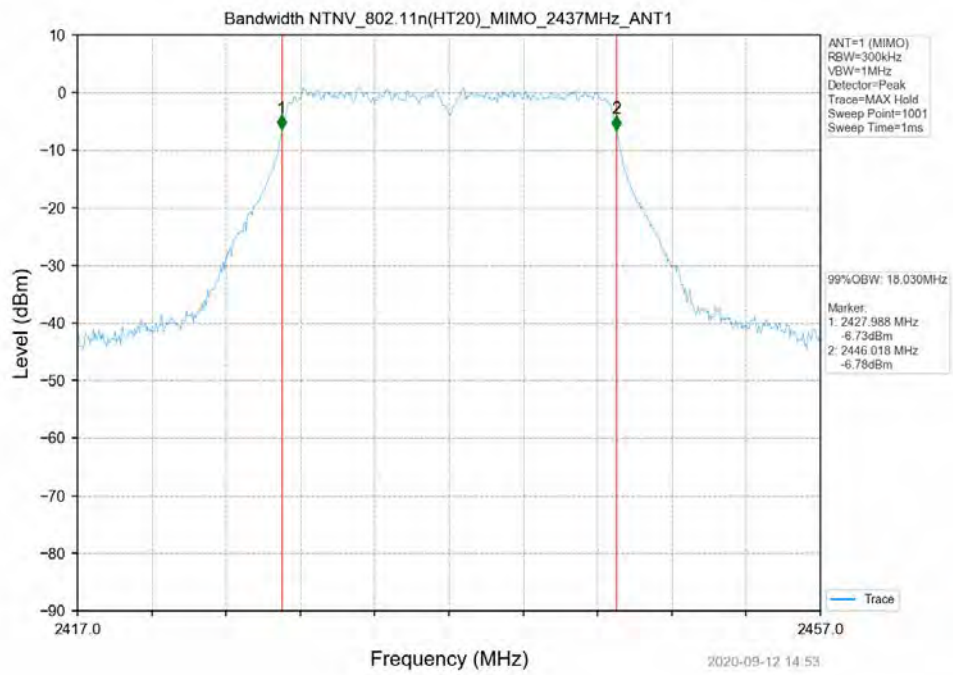
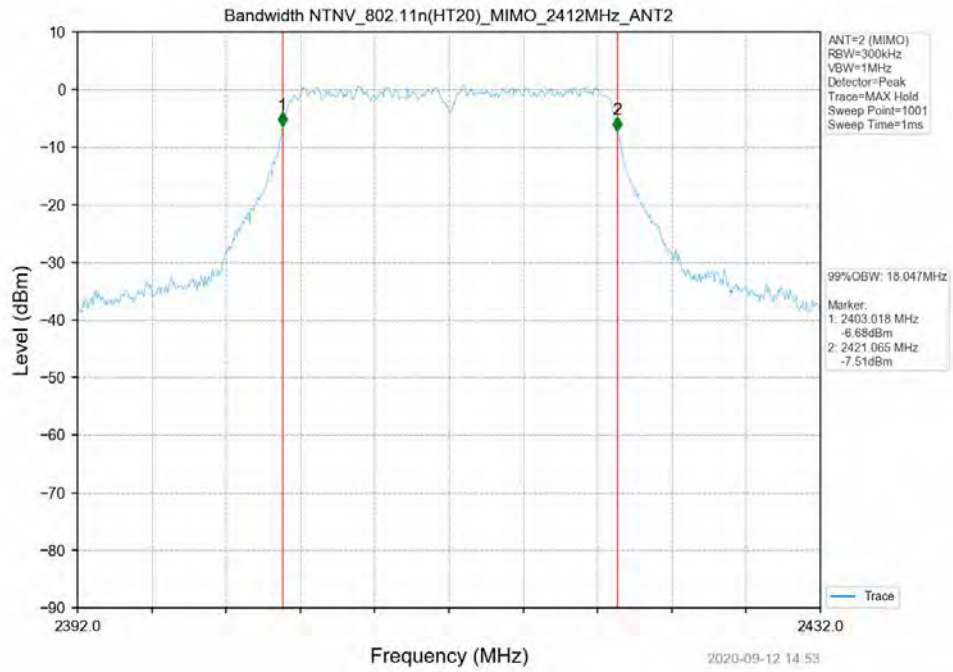


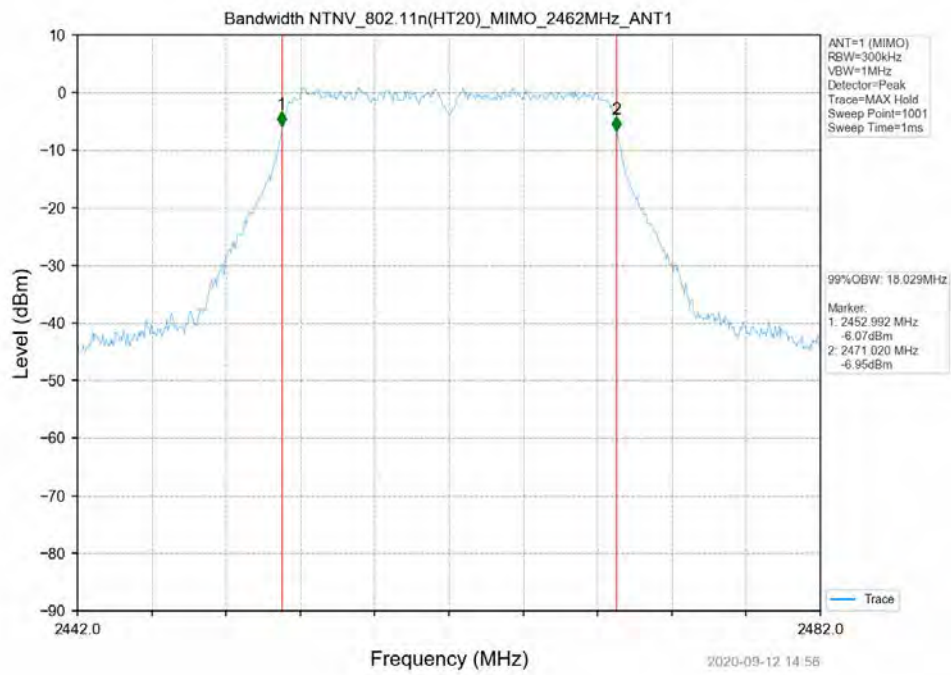
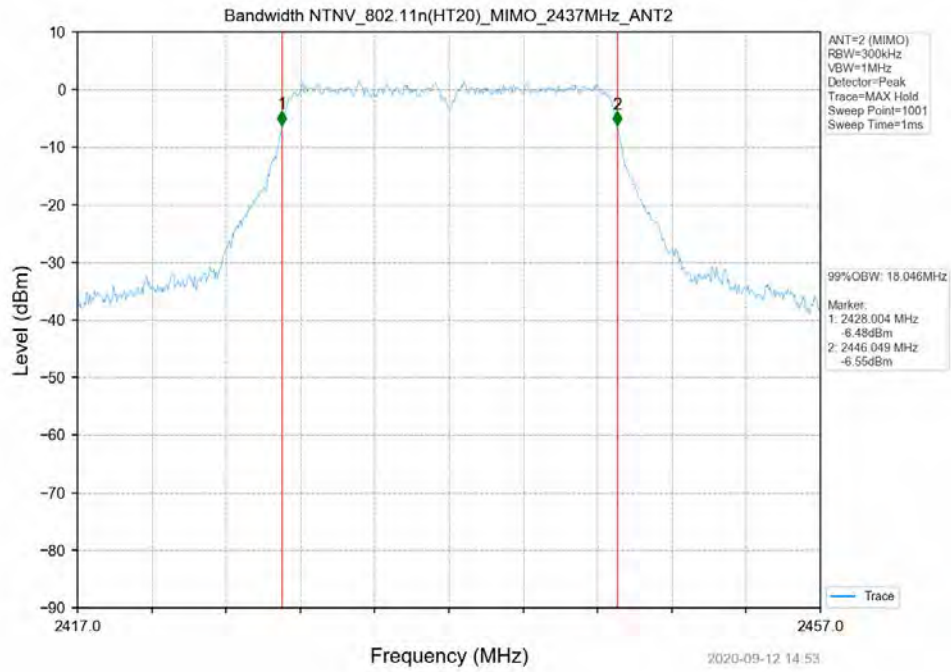


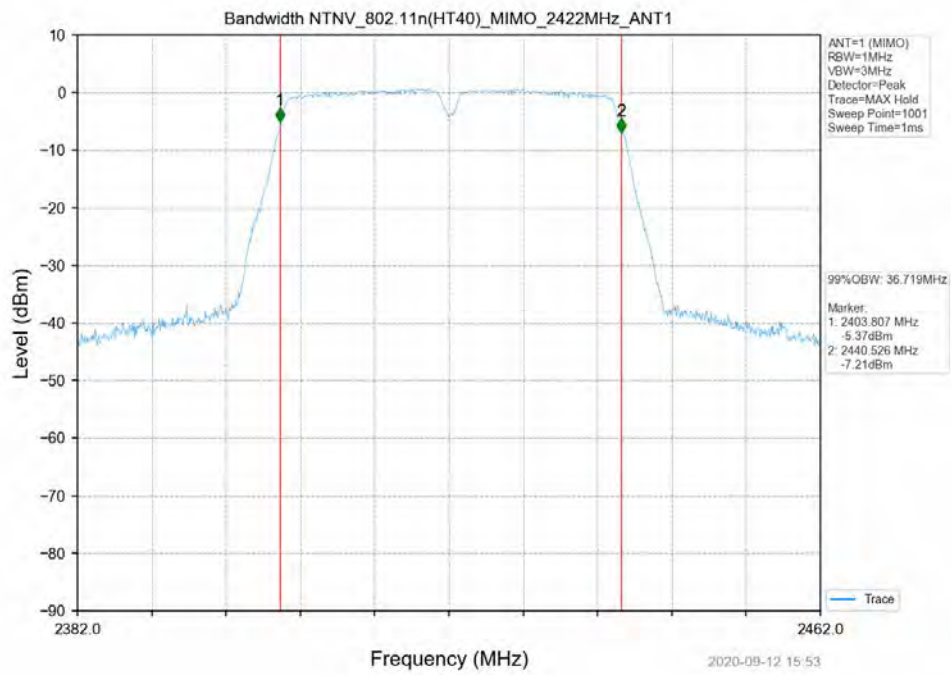
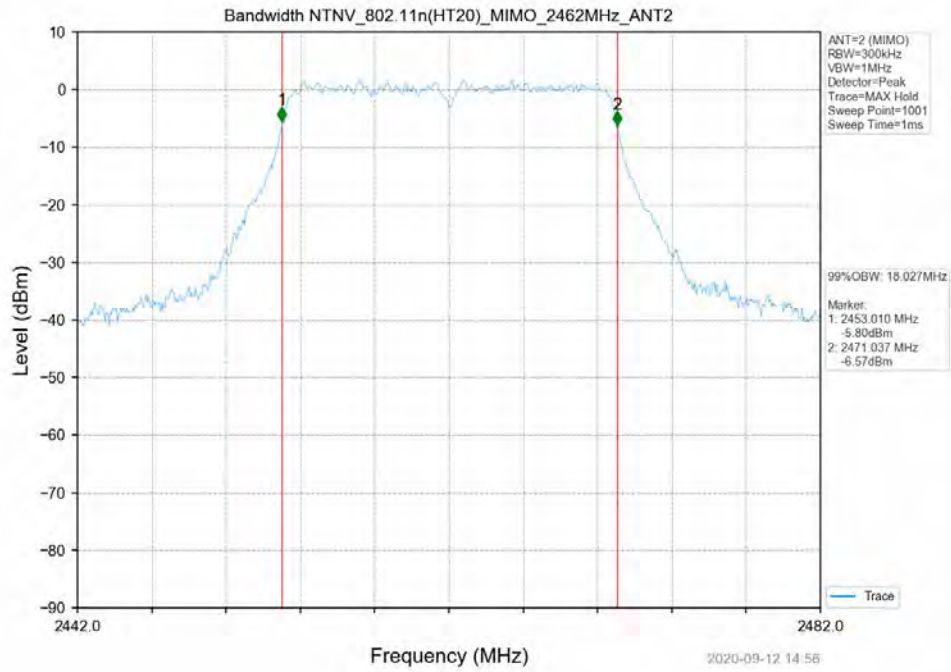


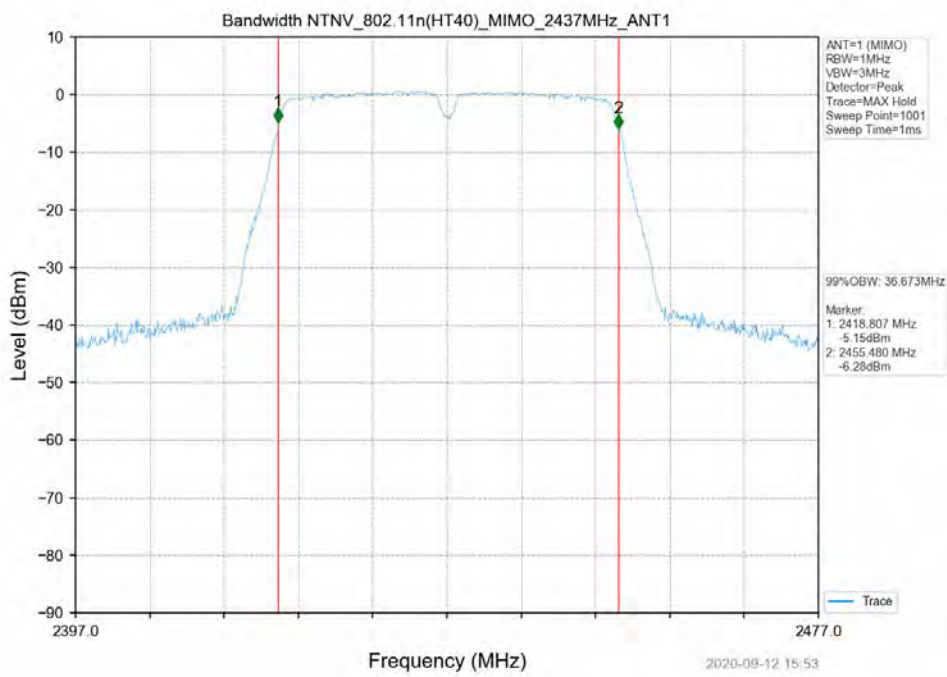
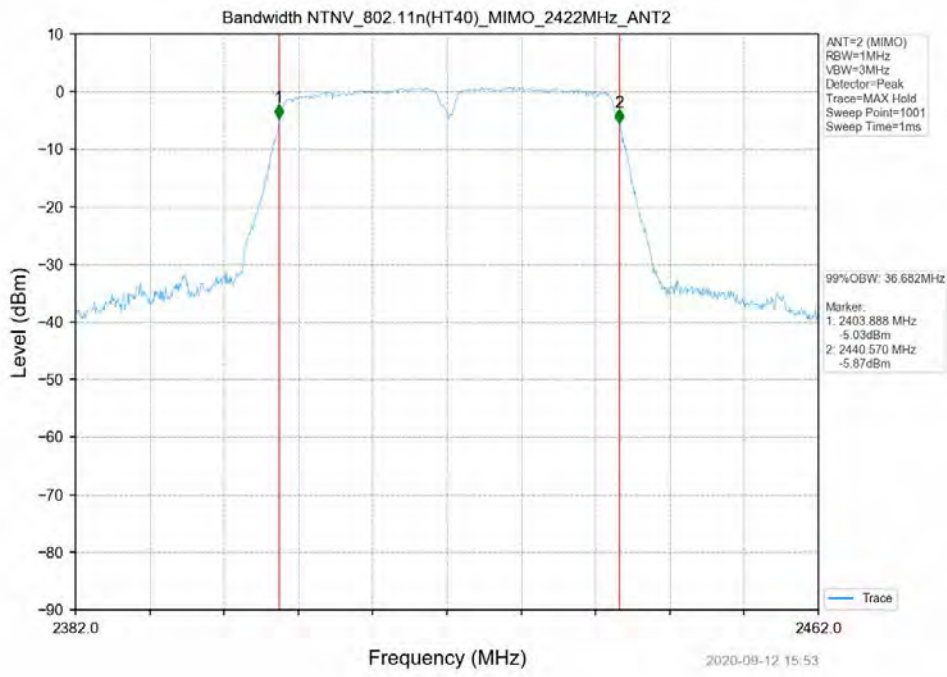


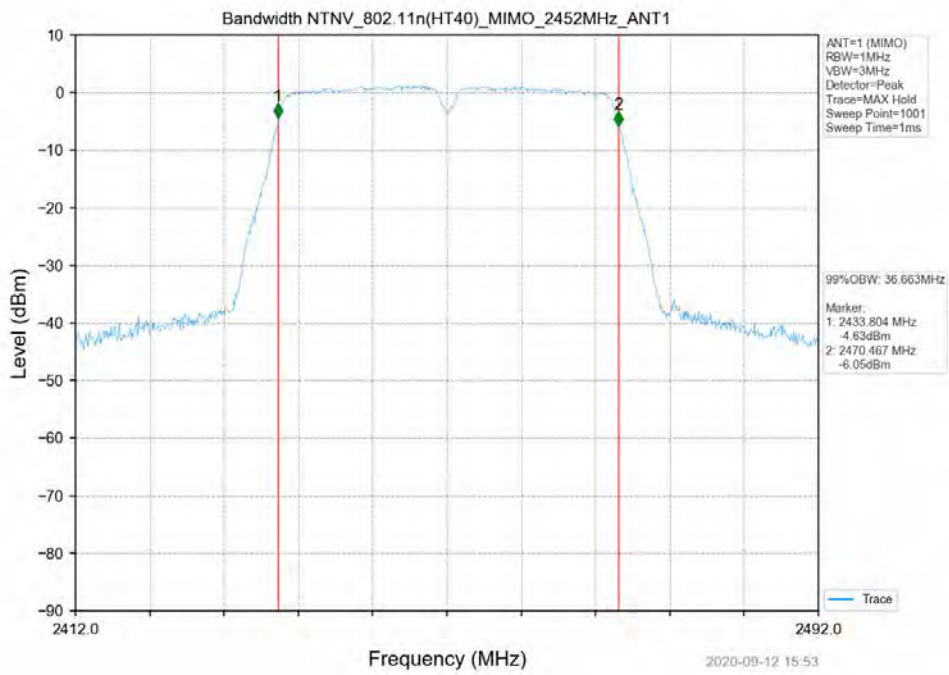
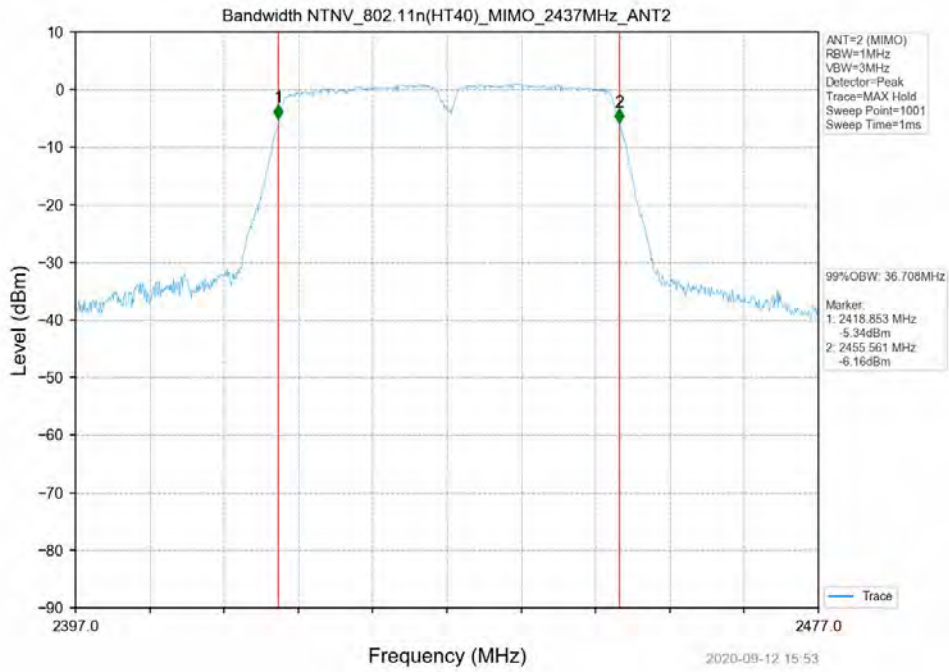


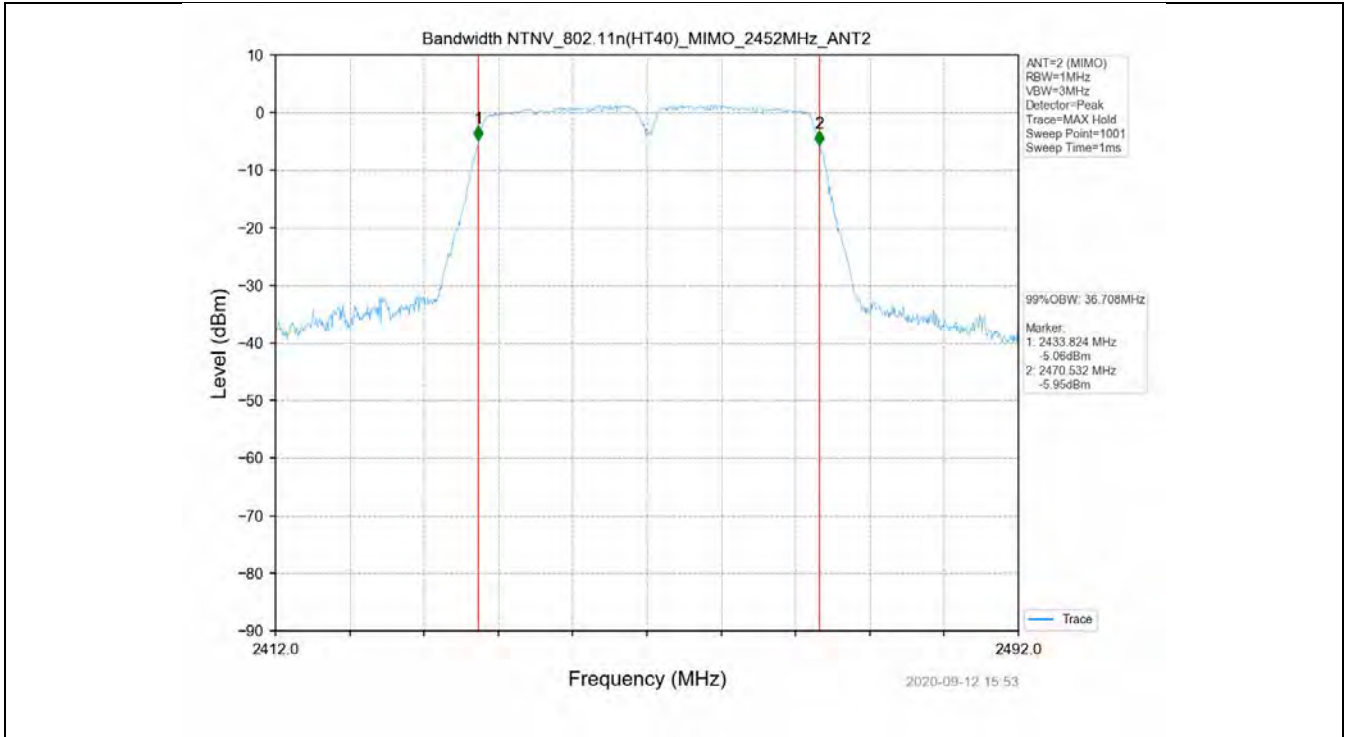












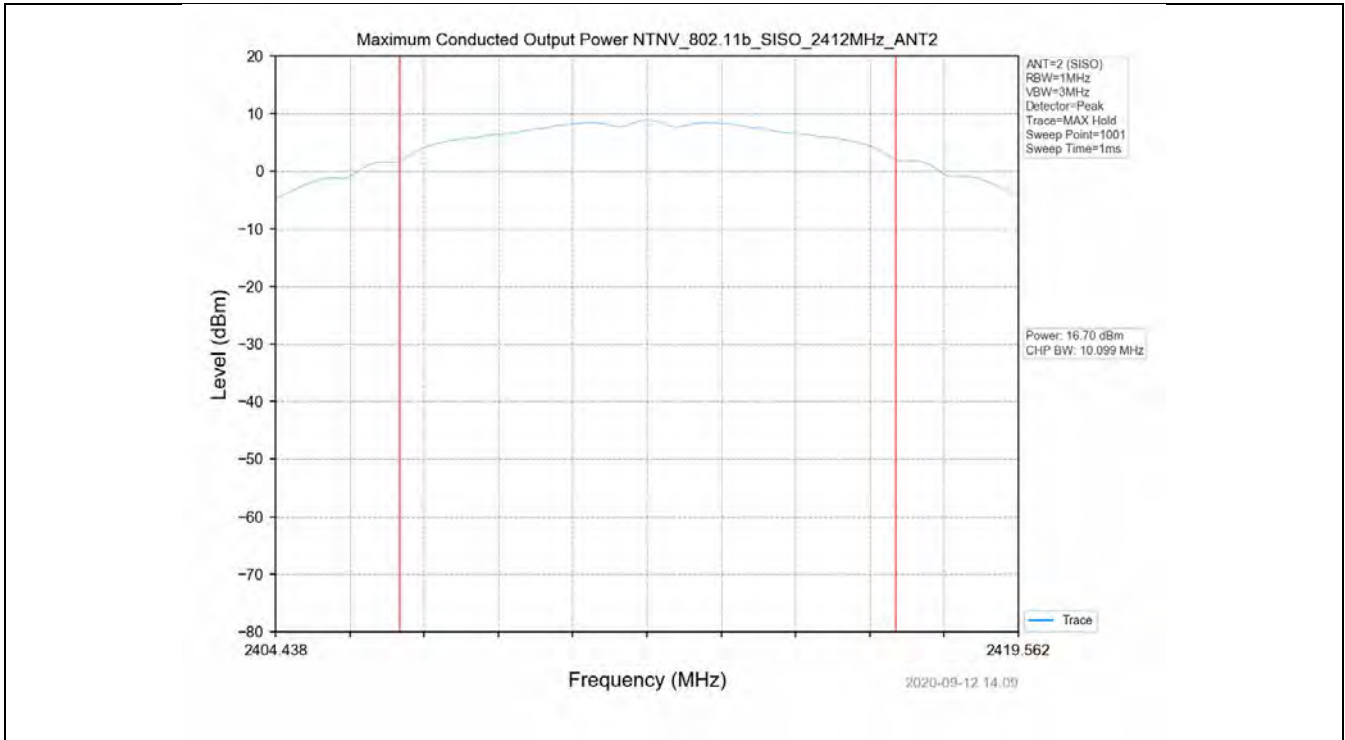
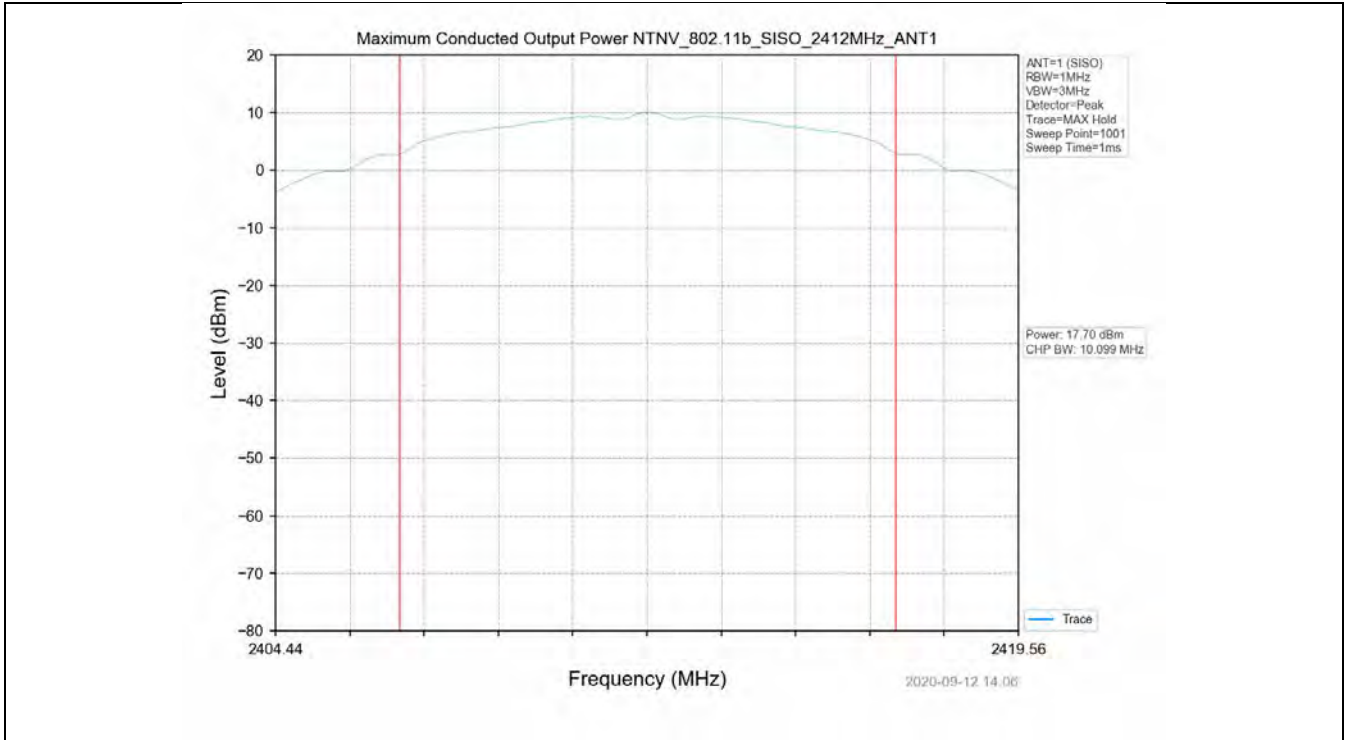
### 3. Maximum Conducted Output Power

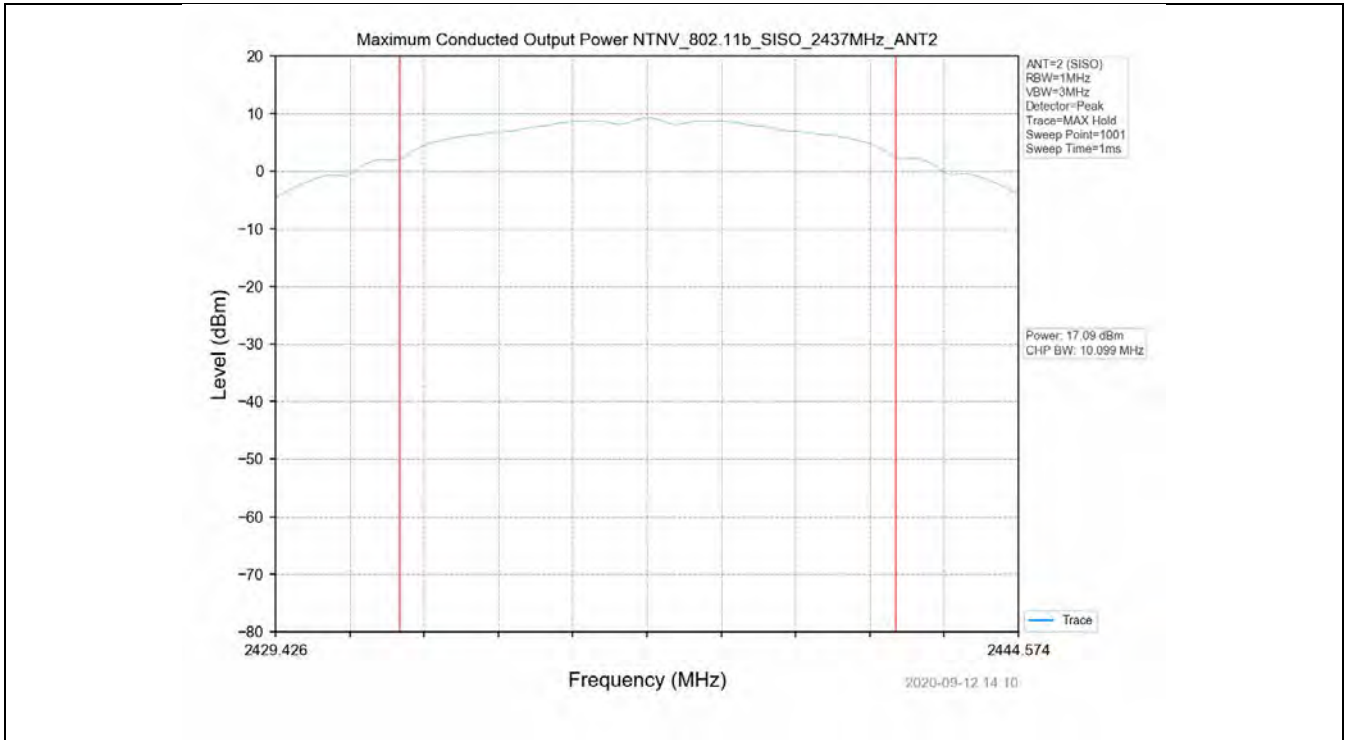
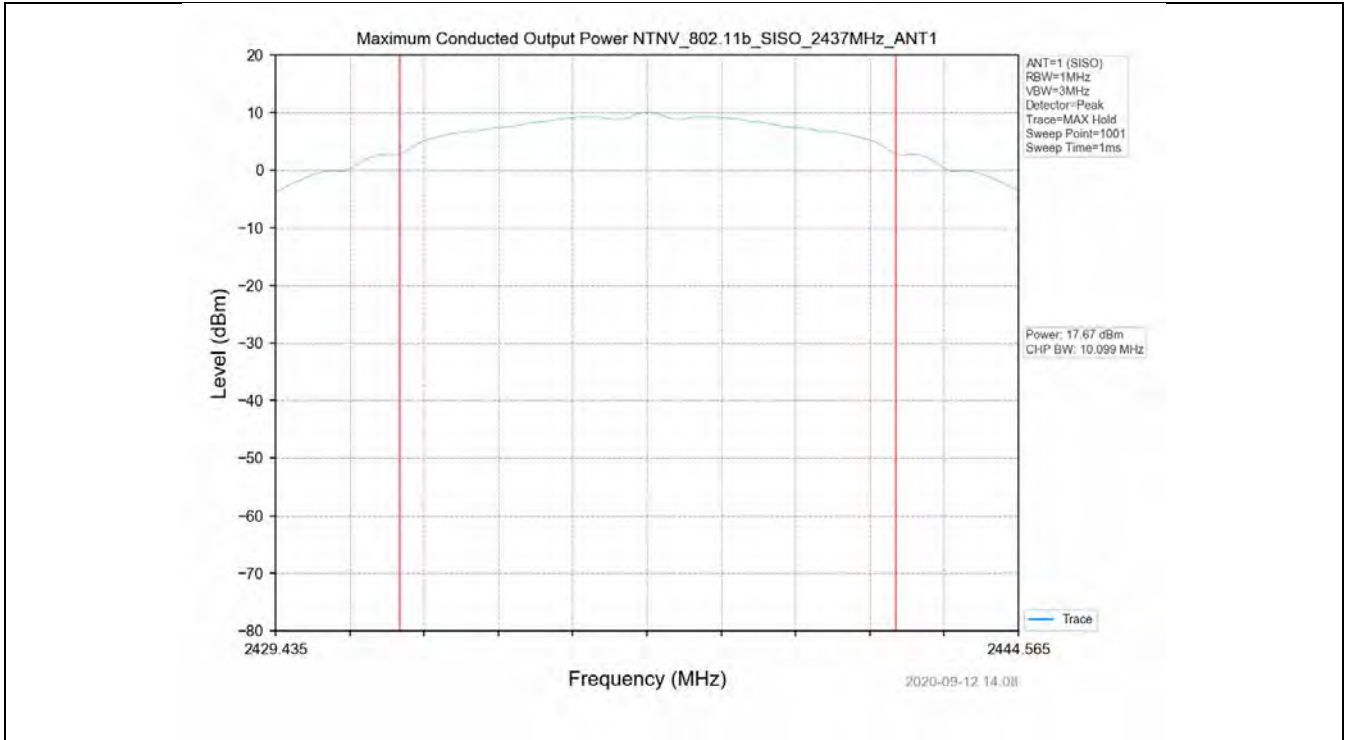
#### 3.1 Test Result

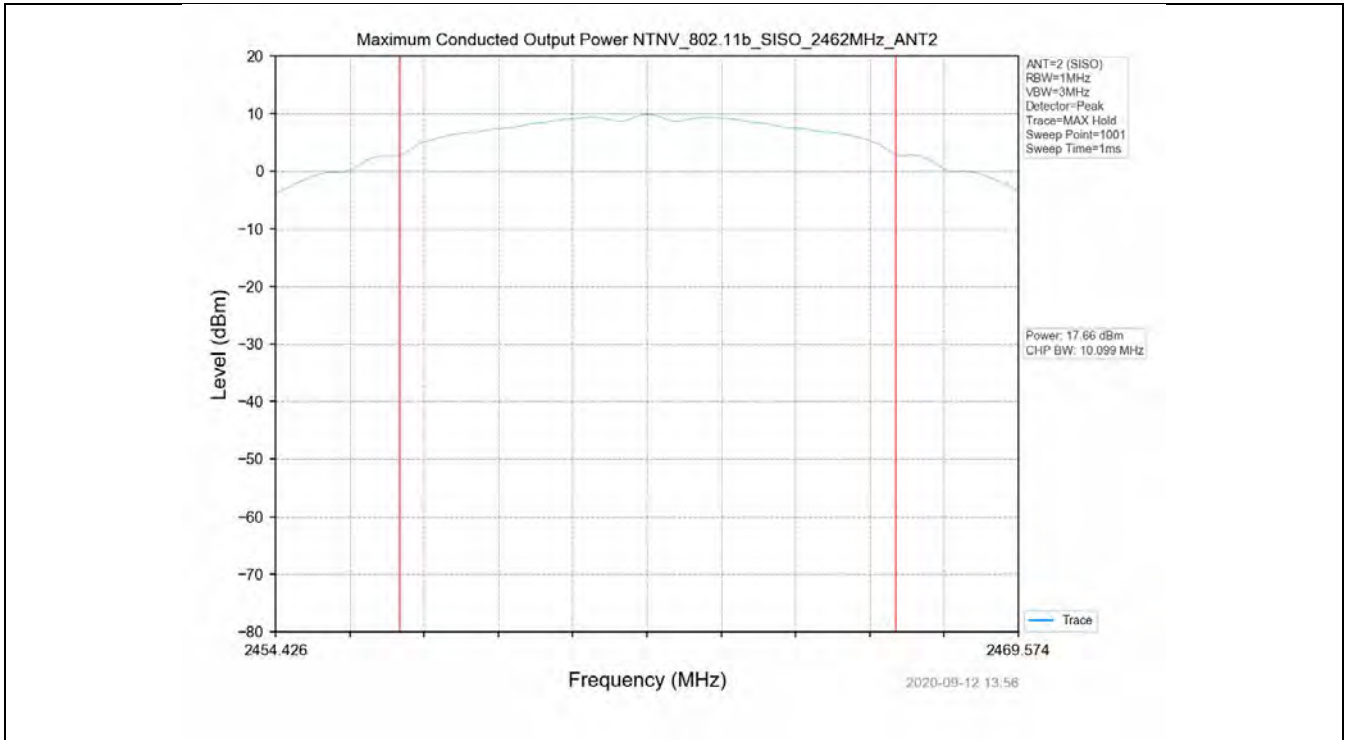
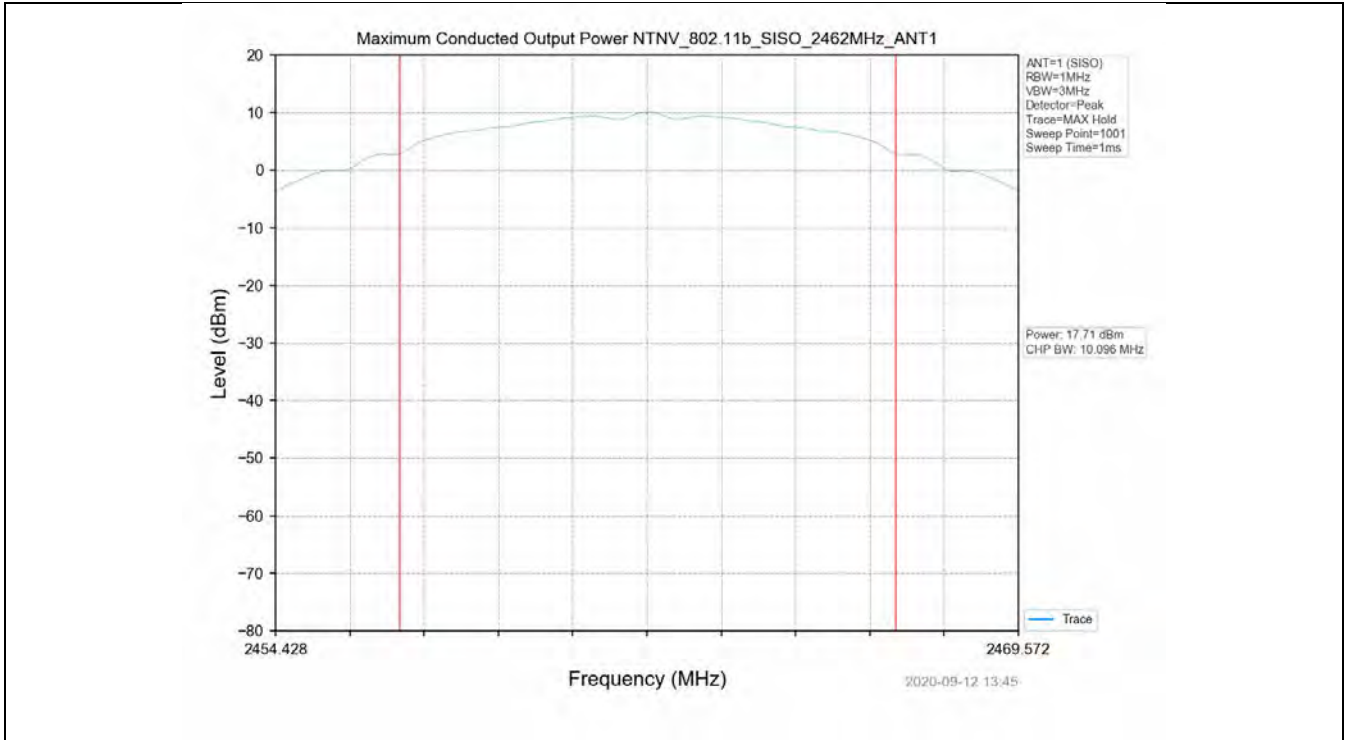
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	17.70	16.70	/	30	PASS
	2437	SISO	17.67	17.09	/	30	PASS
	2462	SISO	17.71	17.66	/	30	PASS
802.11g	2412	SISO	18.06	17.97	/	30	PASS
	2437	SISO	18.15	18.48	/	30	PASS
	2462	SISO	17.98	18.87	/	30	PASS
802.11n(HT20)	2412	MIMO	16.88	16.37	19.64	28.85	PASS
	2437	MIMO	16.94	16.72	19.84	28.85	PASS
	2462	MIMO	16.83	17.35	20.11	28.85	PASS
802.11n(HT40)	2422	MIMO	15.04	15.05	18.06	28.85	PASS
	2437	MIMO	15.01	15.37	18.20	28.85	PASS
	2452	MIMO	15.58	15.67	18.64	28.85	PASS

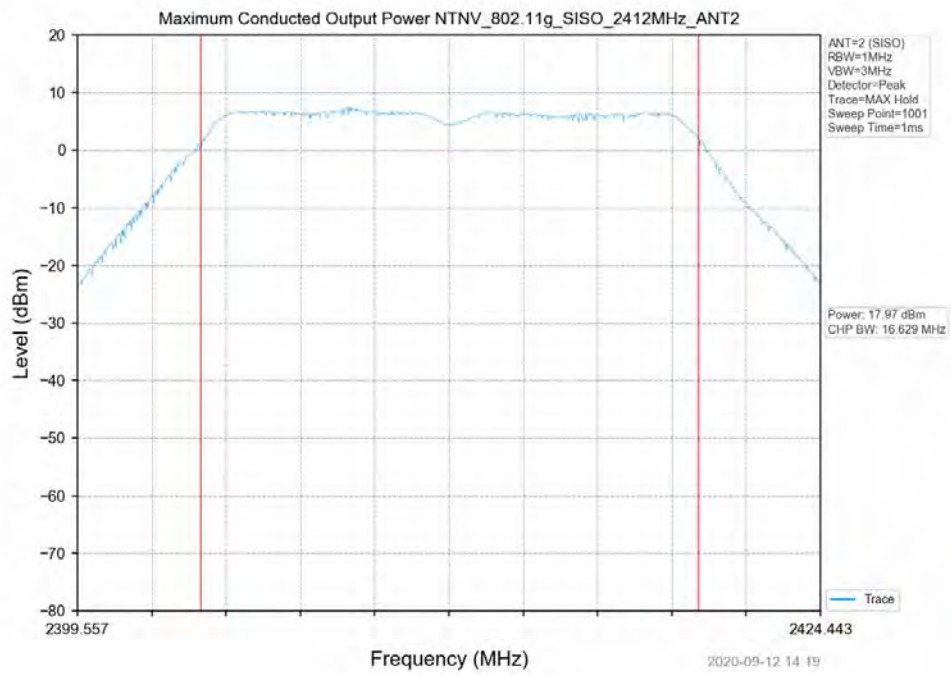
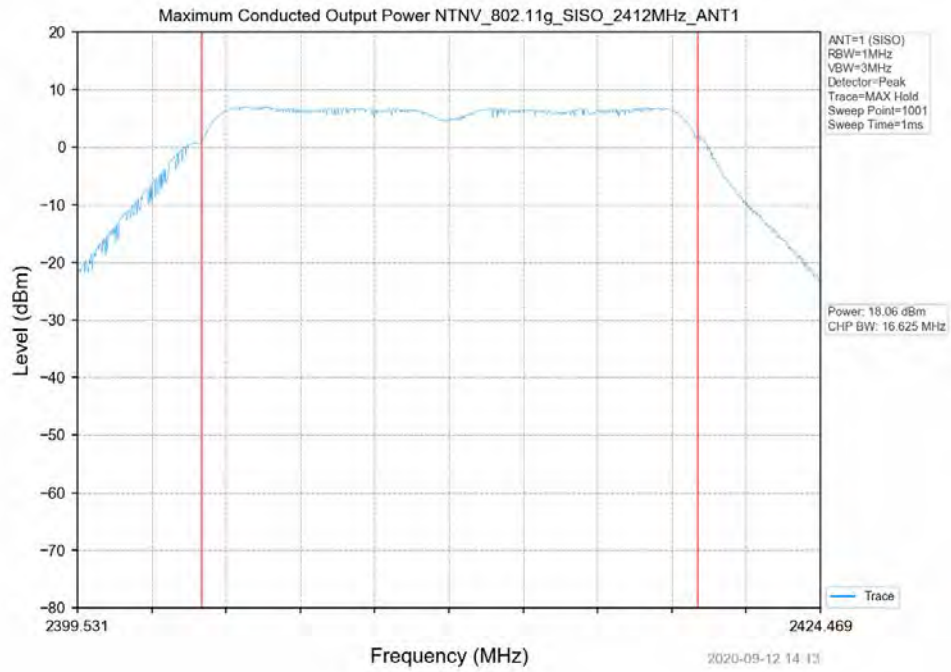
#### 3.2 Test Graph

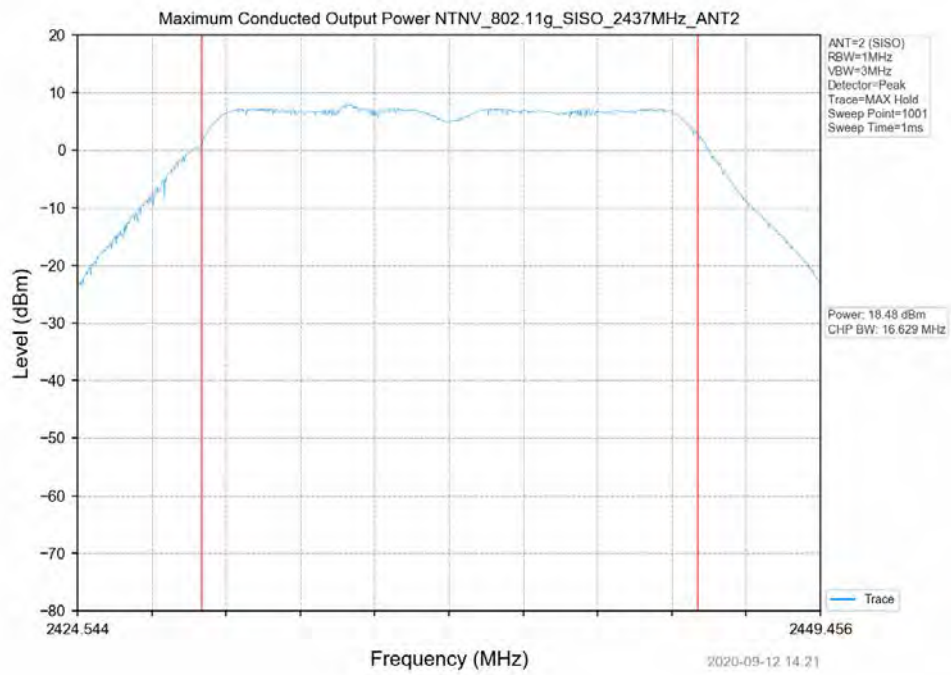
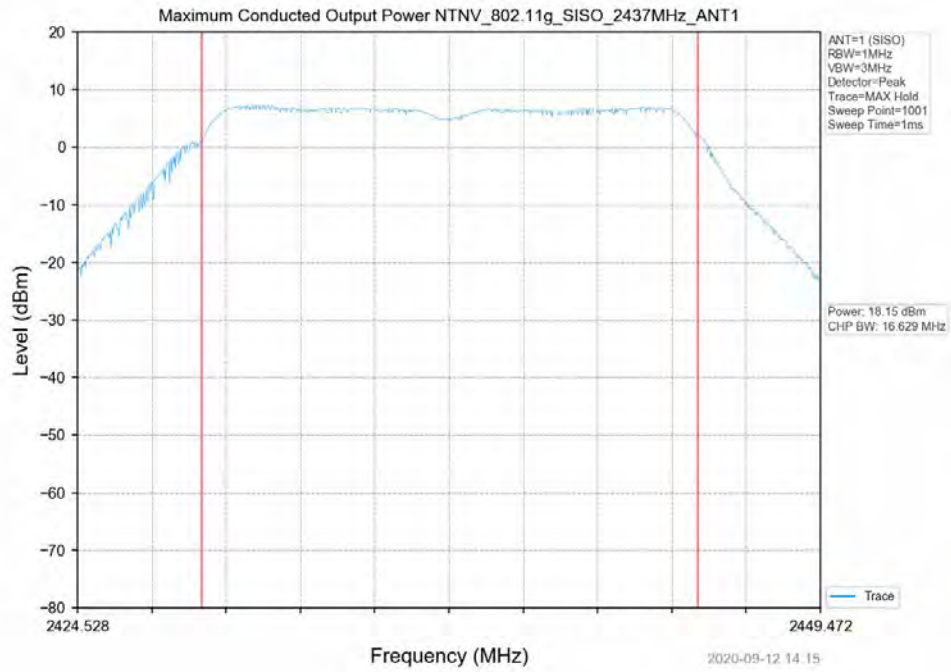


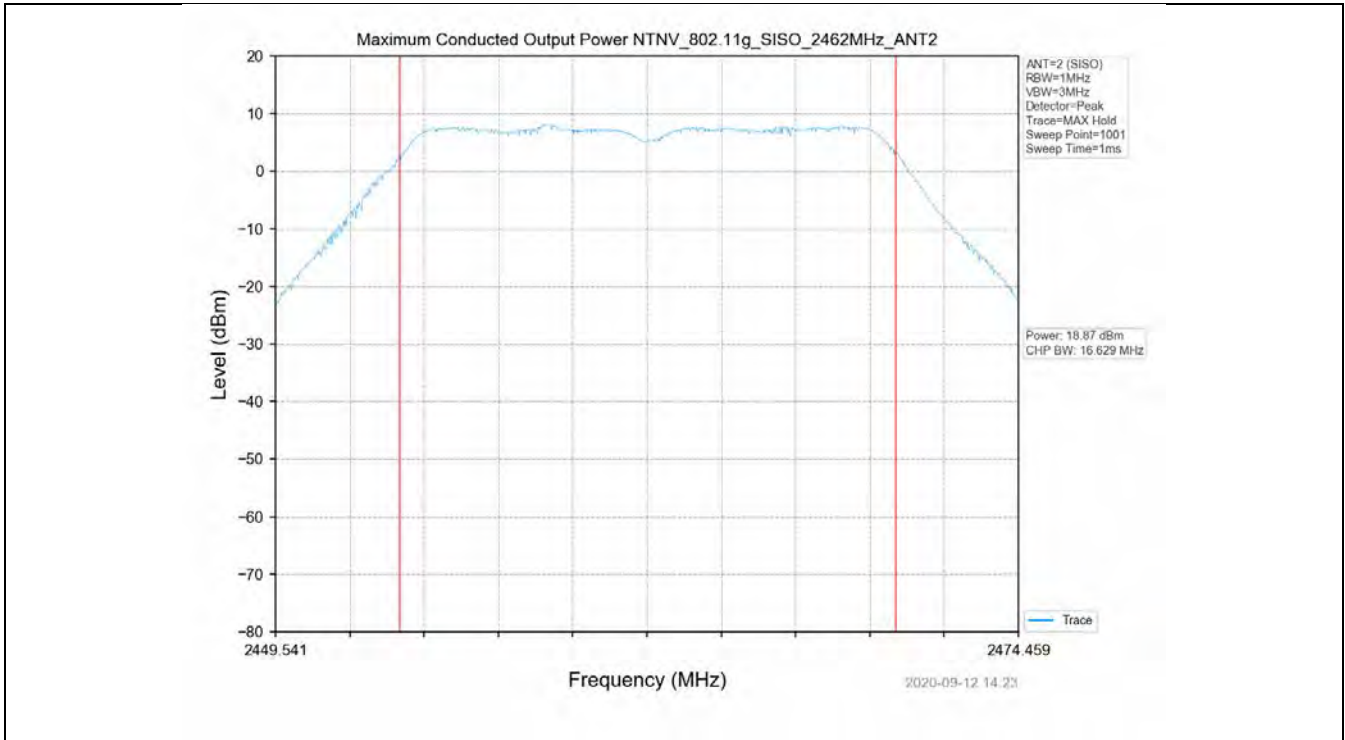
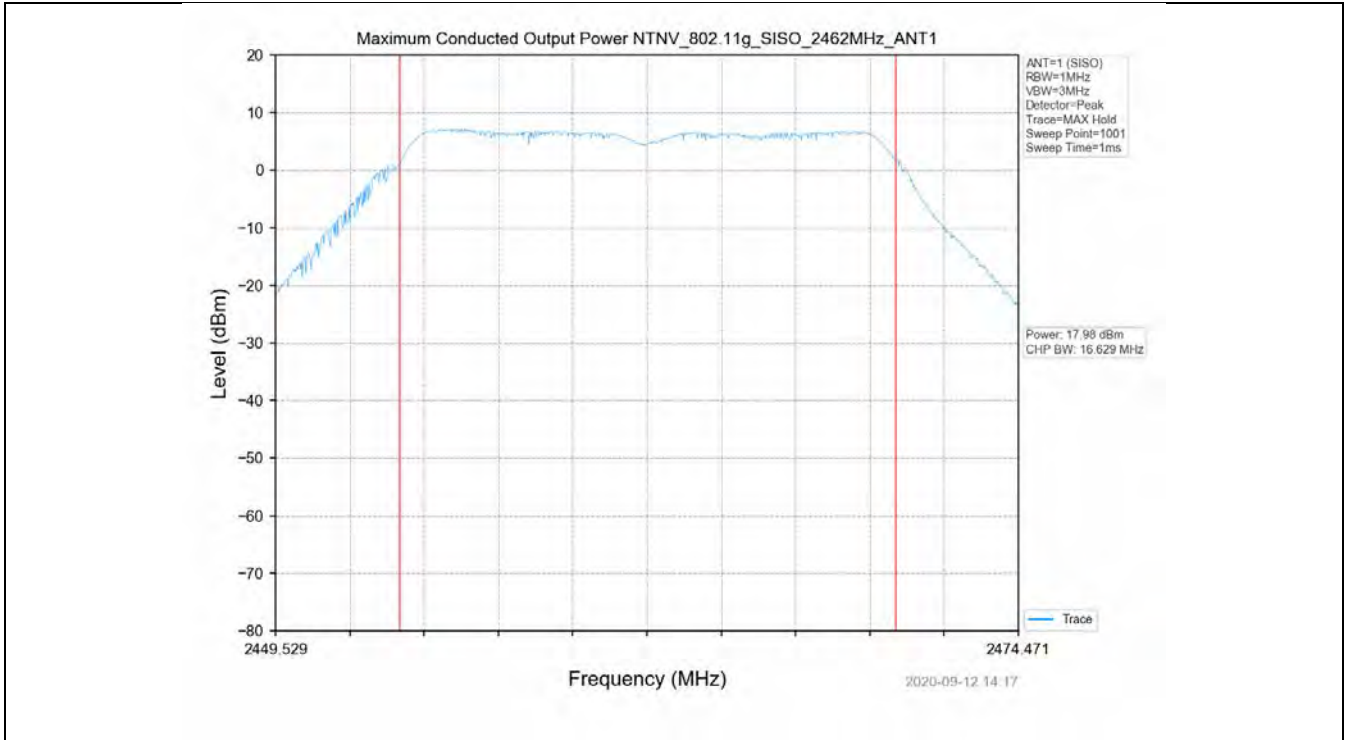


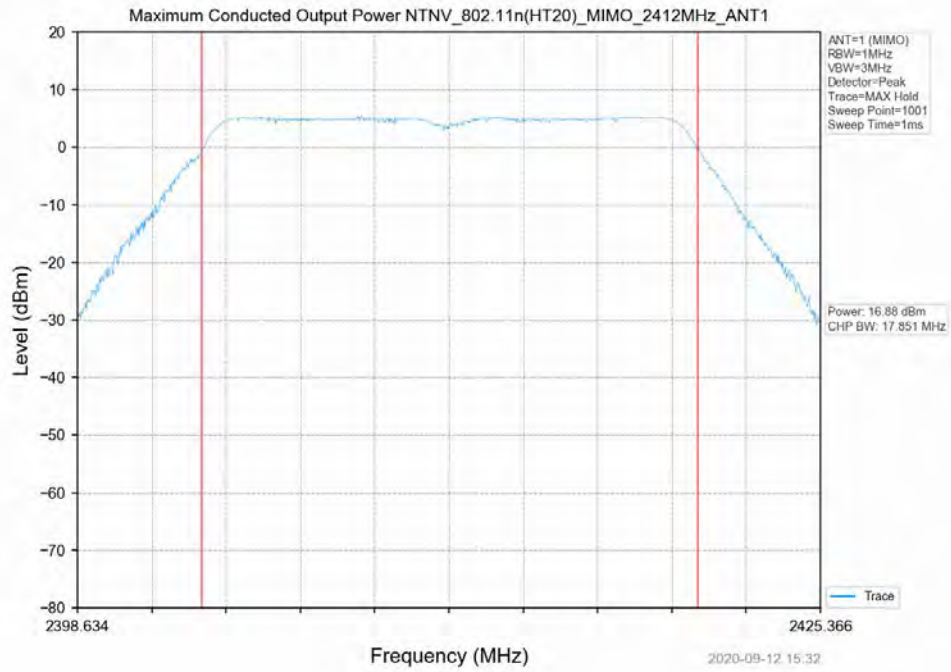


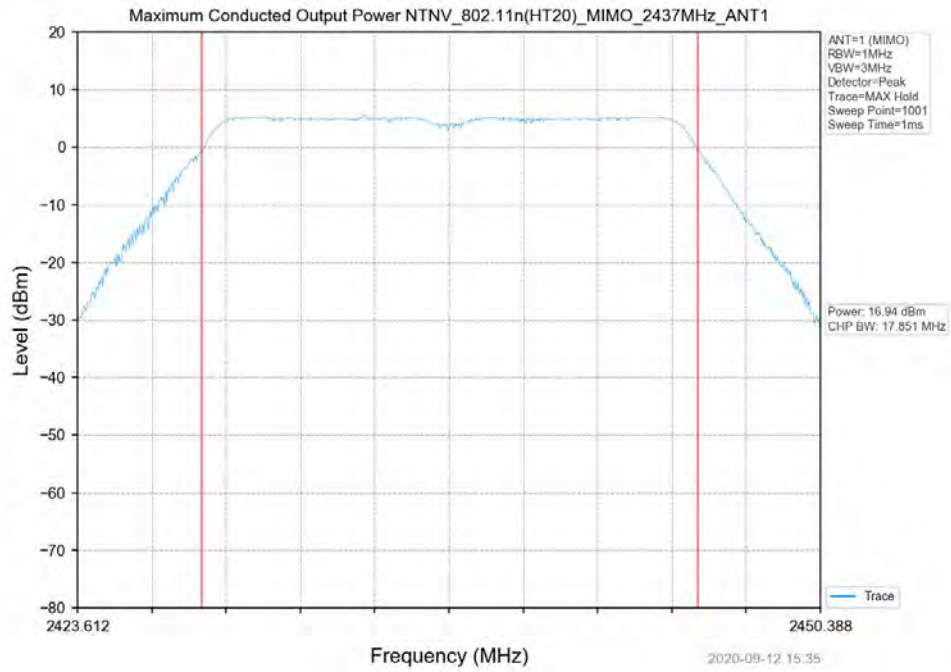




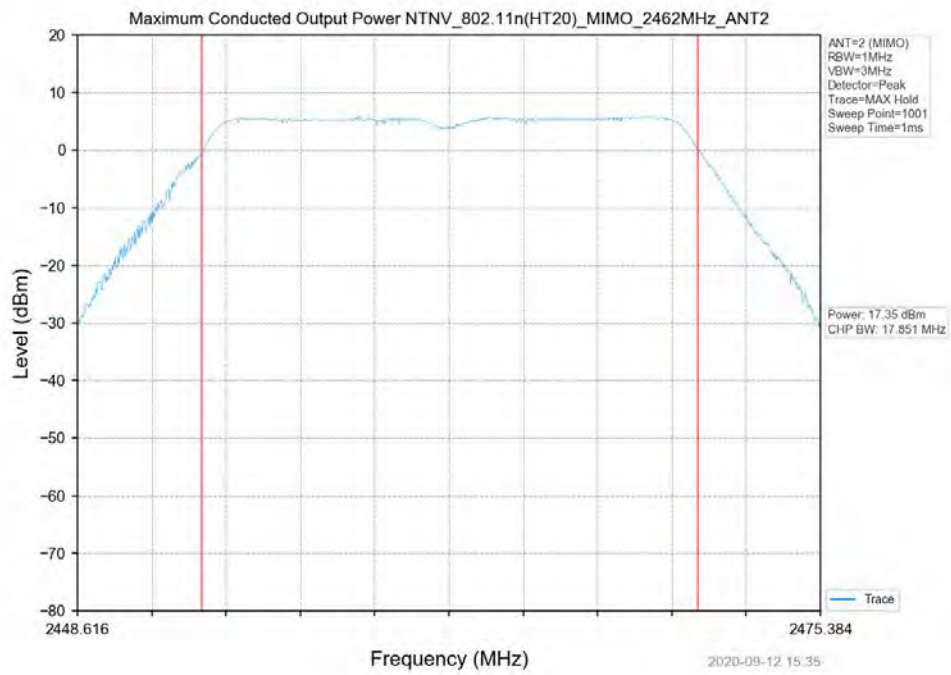
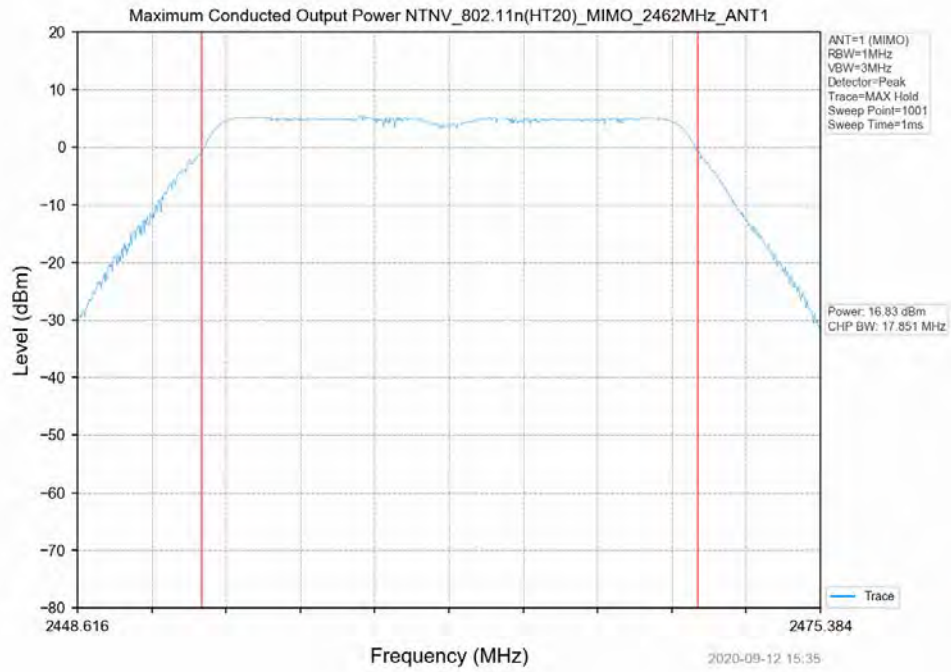


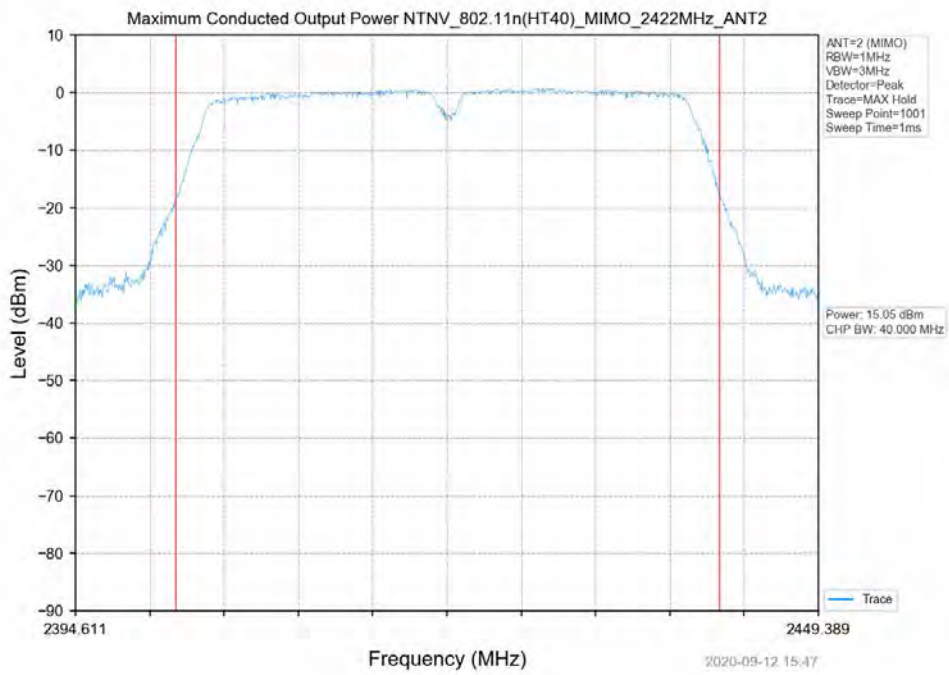
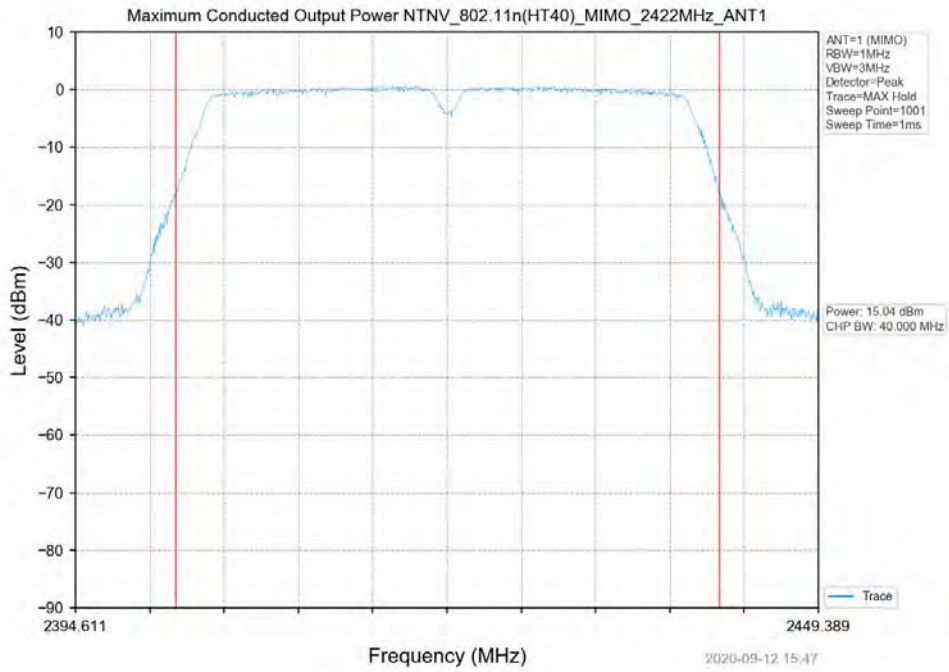


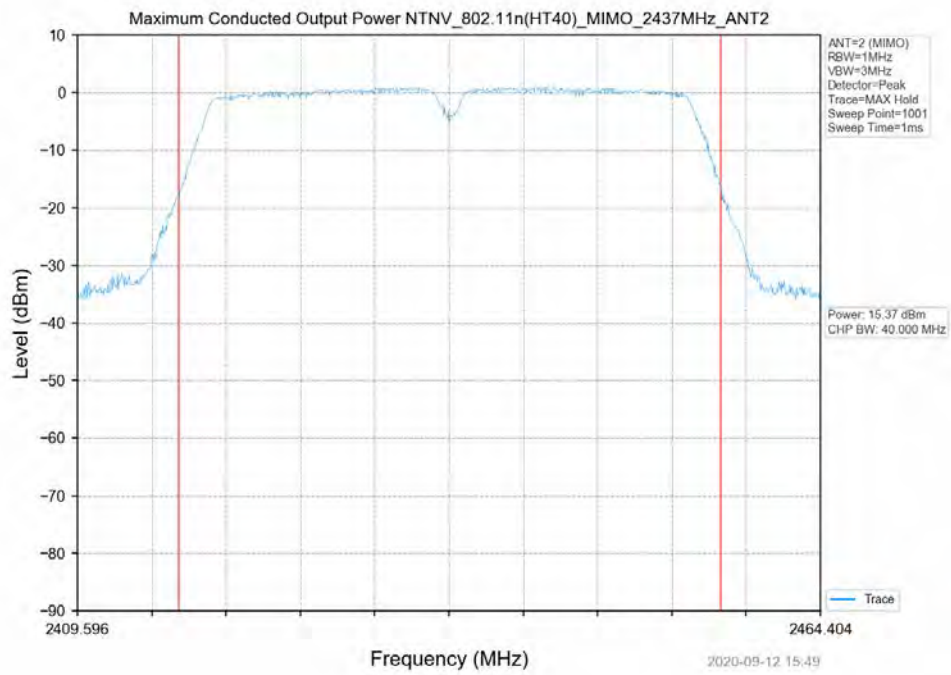
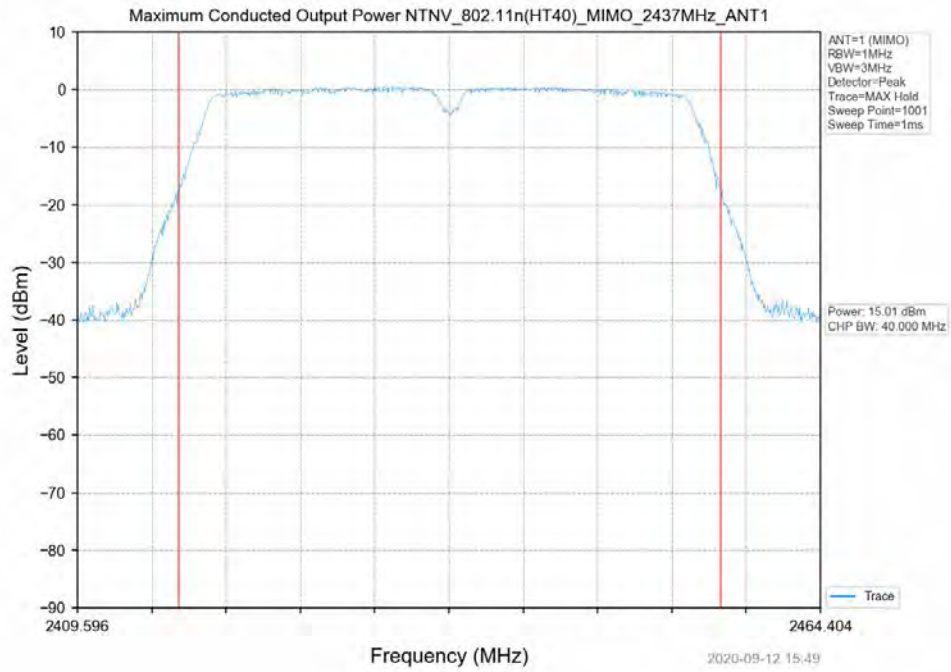


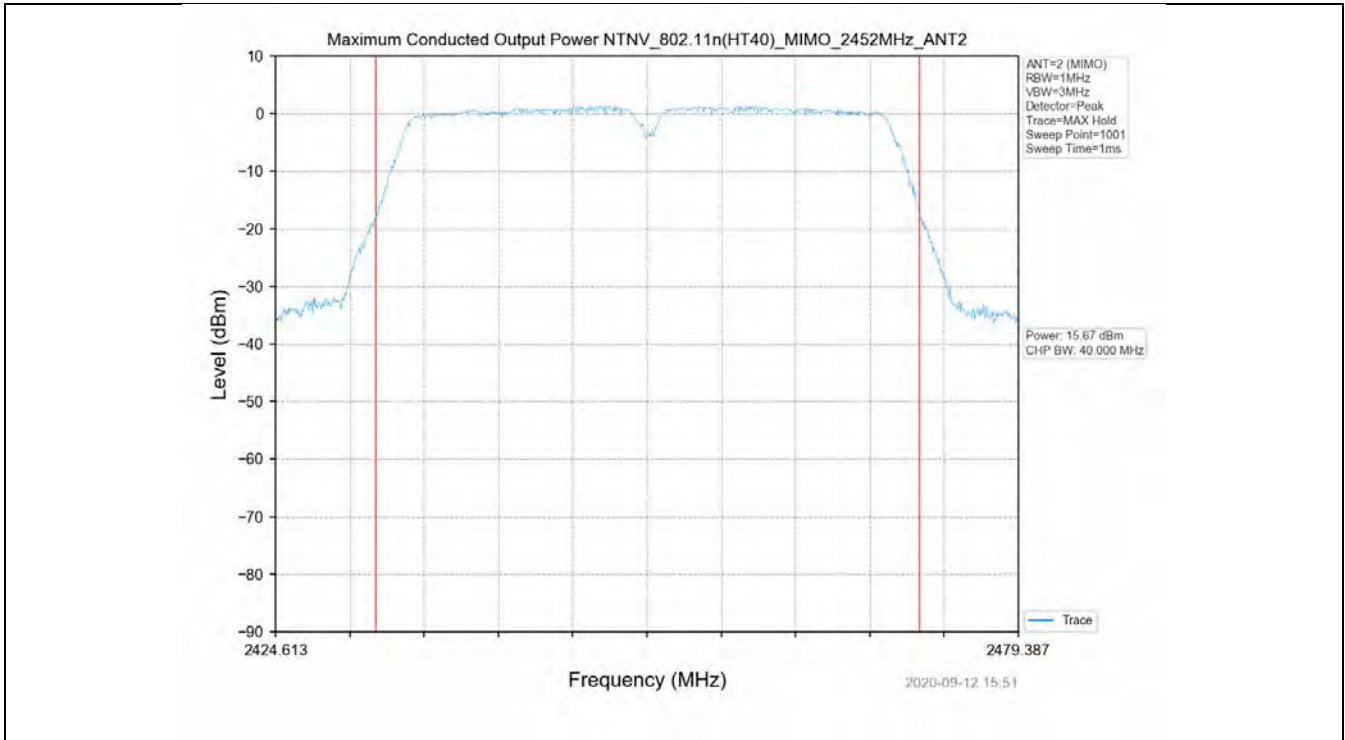
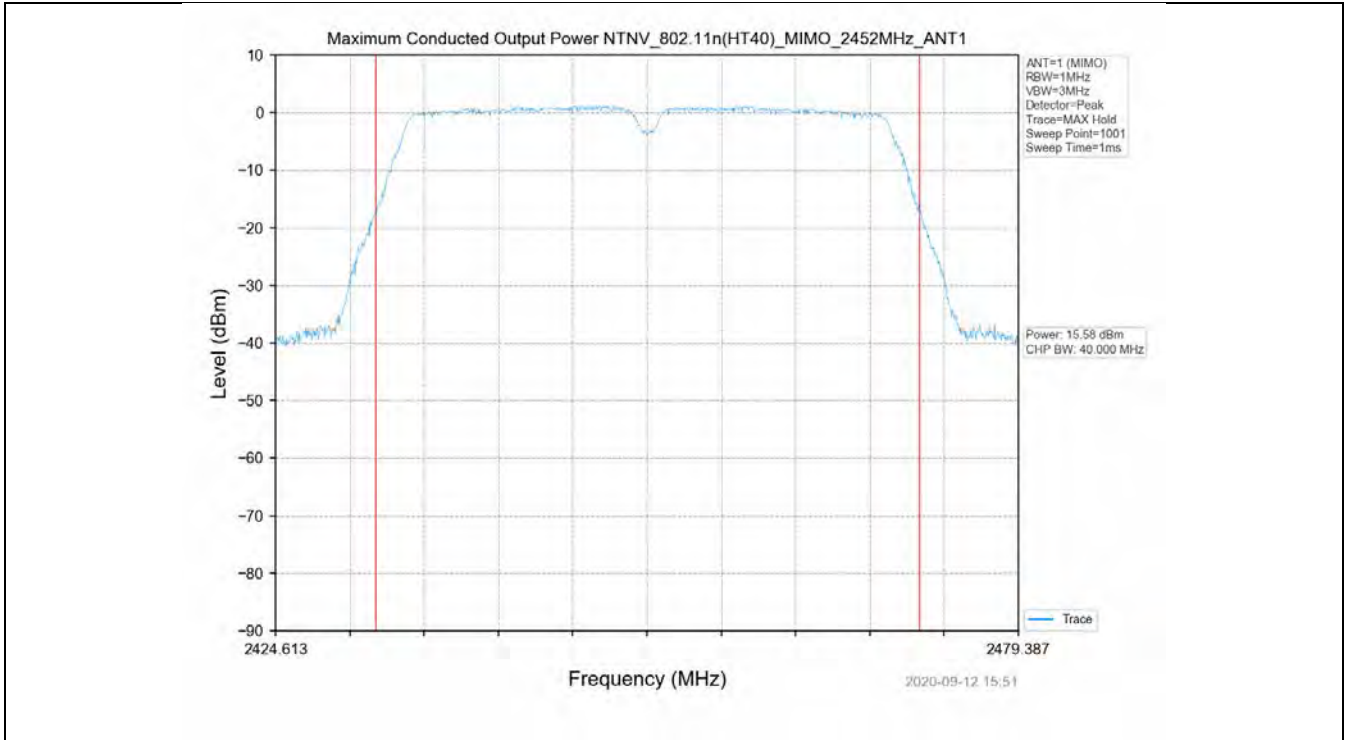










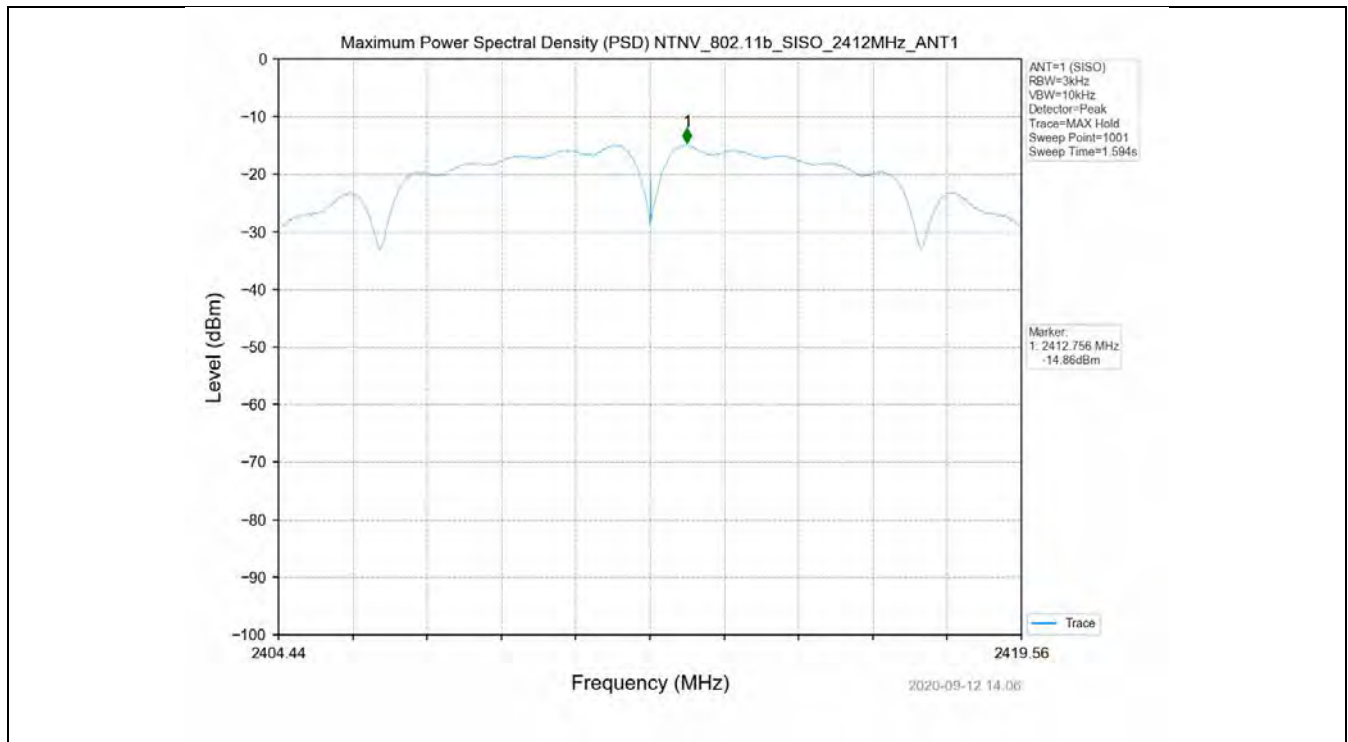


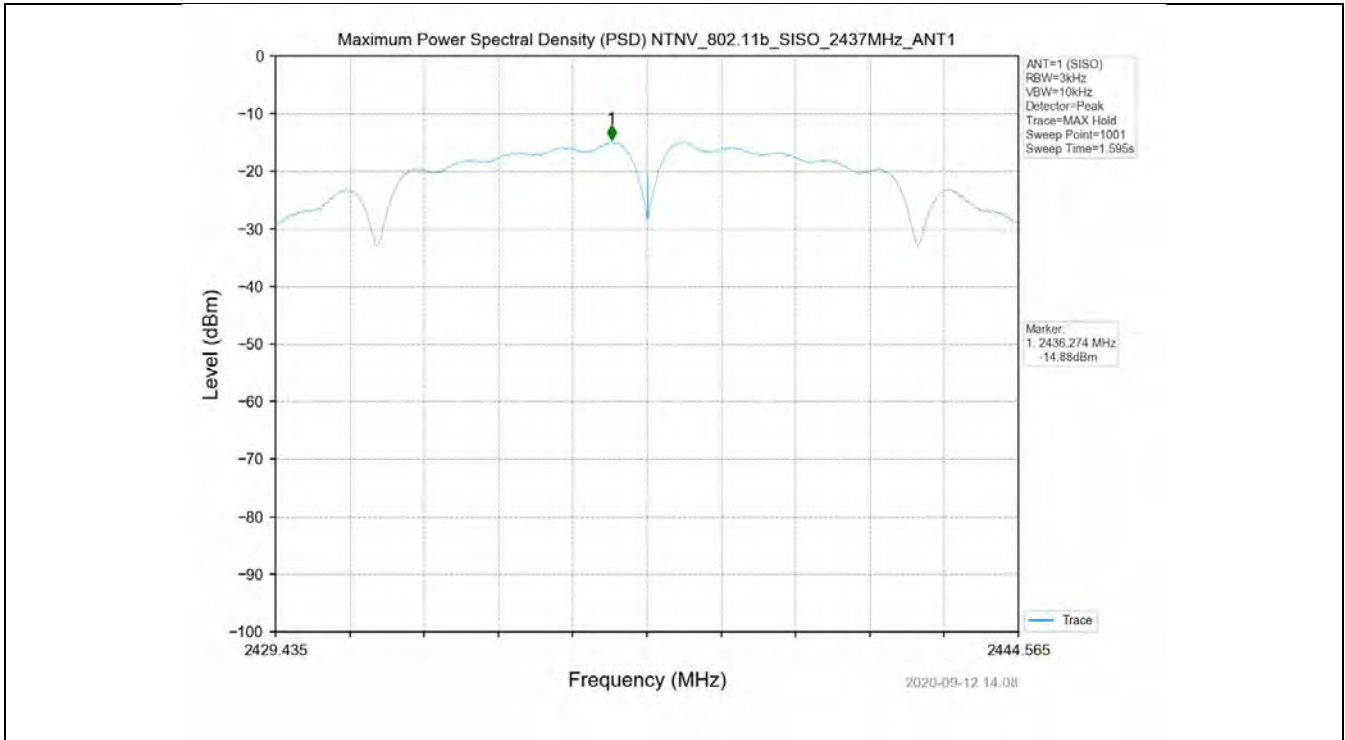
#### 4. Maximum Power Spectral Density (PSD)

##### 4.1 Test Result

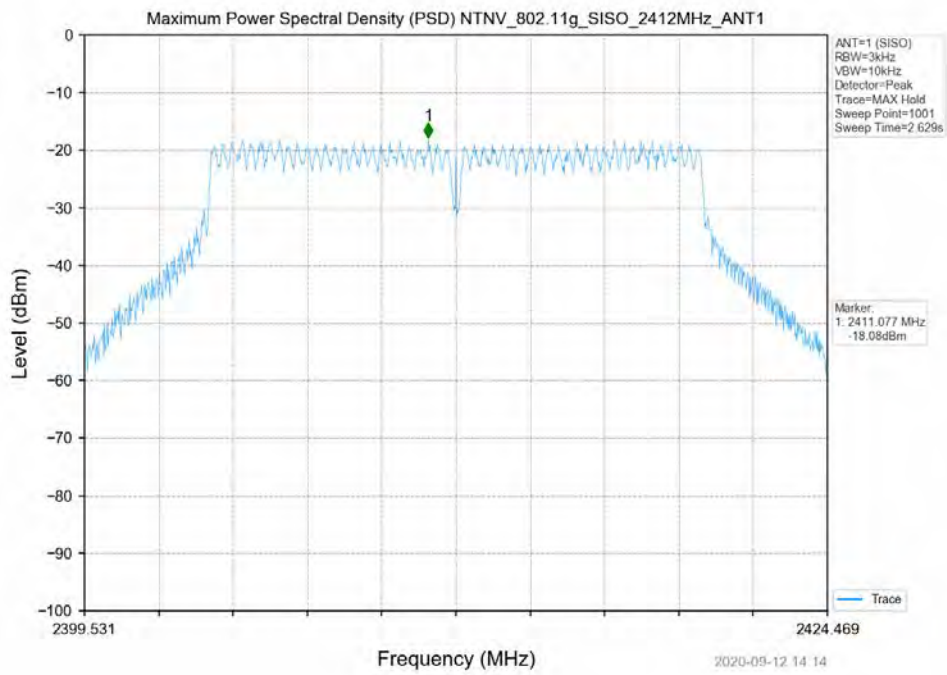
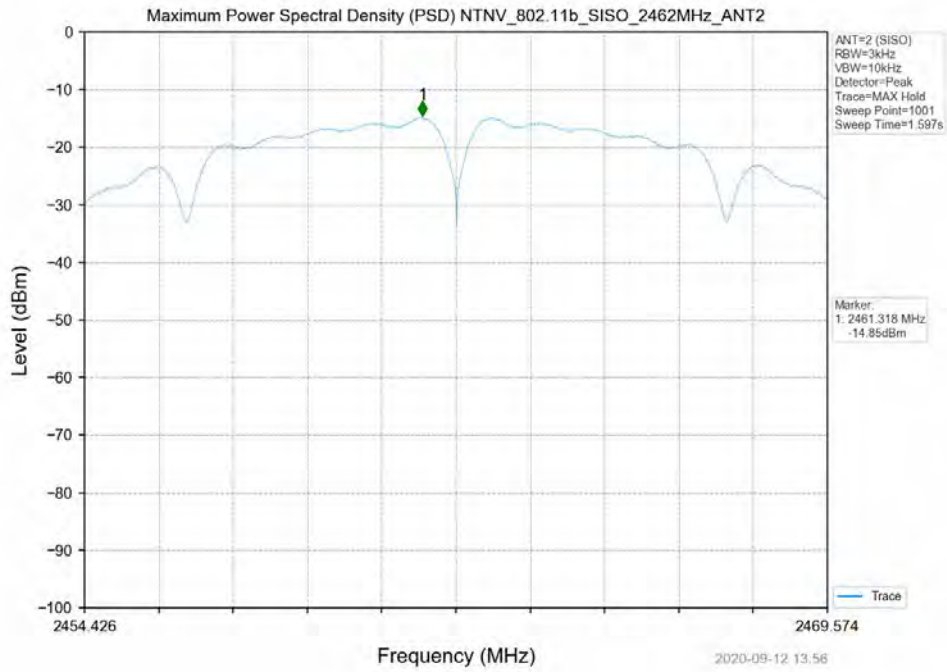
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-14.86	-15.83	/	≤8	PASS
	2437	SISO	-14.88	-15.44	/	≤8	PASS
	2462	SISO	-14.84	-14.85	/	≤8	PASS
802.11g	2412	SISO	-18.08	-18.13	/	≤8	PASS
	2437	SISO	-18.04	-17.68	/	≤8	PASS
	2462	SISO	-18.18	-17.08	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-19.21	-19.82	-16.74	≤6.85	PASS
	2437	MIMO	-19.05	-19.06	-16.38	≤6.85	PASS
	2462	MIMO	-18.73	-18.36	-15.53	≤6.85	PASS
802.11n(HT40)	2422	MIMO	-21.17	-21.13	-18.14	≤6.85	PASS
	2437	MIMO	-21.75	-20.75	-18.50	≤6.85	PASS
	2452	MIMO	-19.99	-20.62	-17.75	≤6.85	PASS

## 4.2 Test Graph

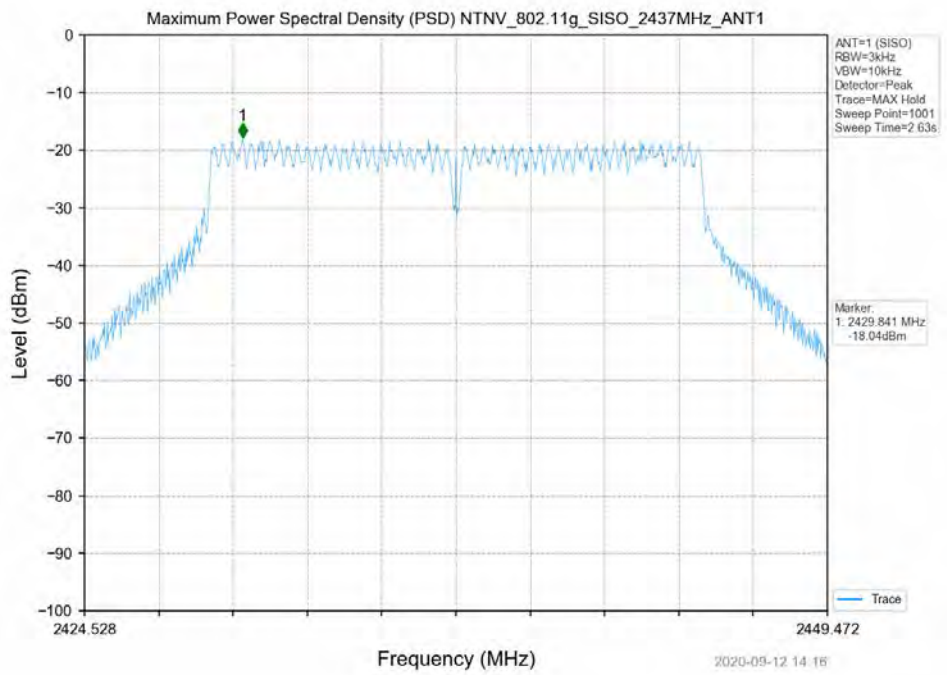
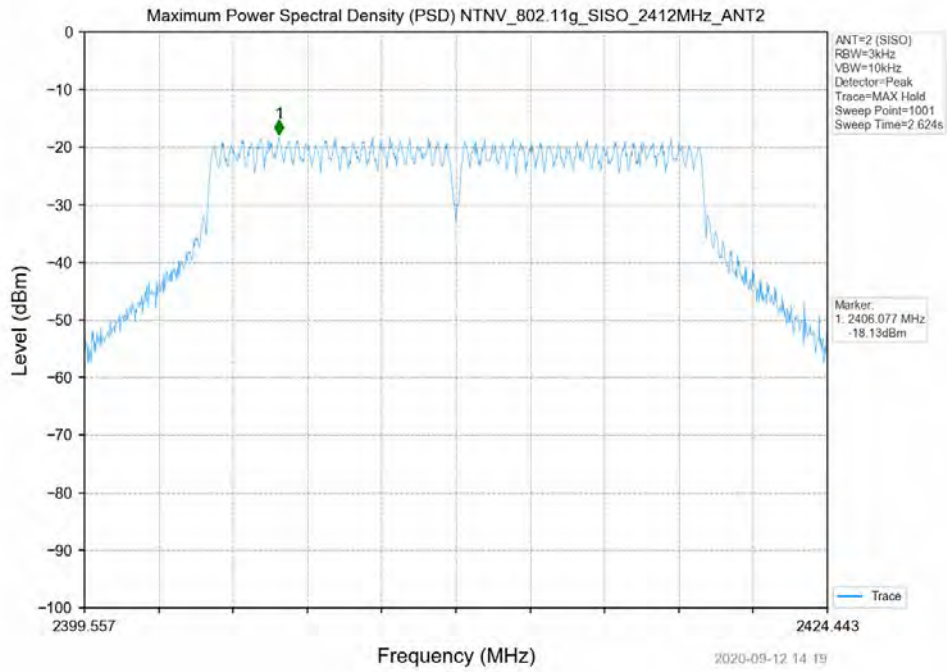


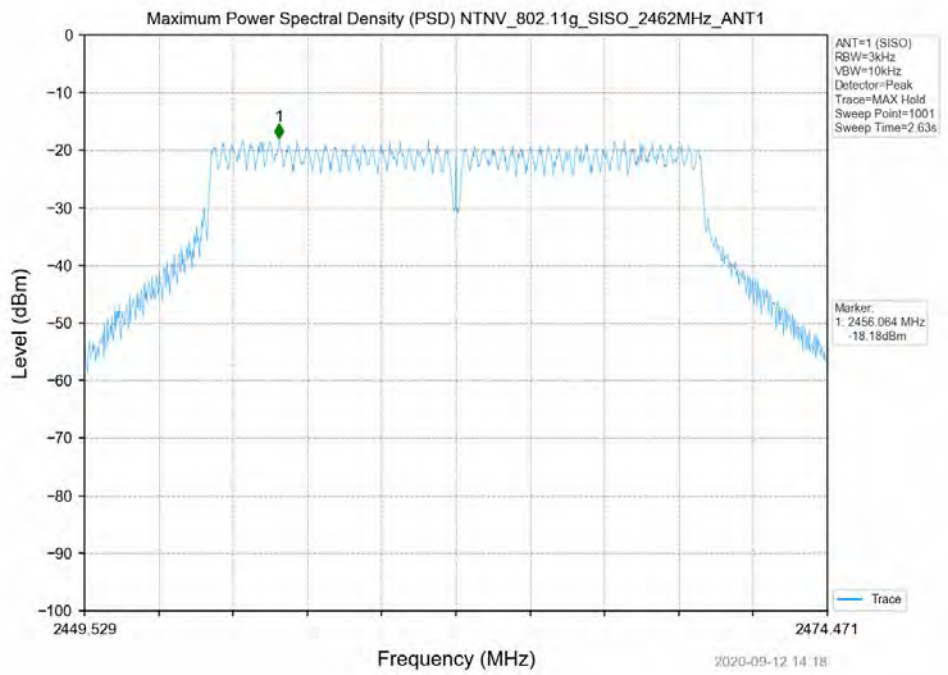
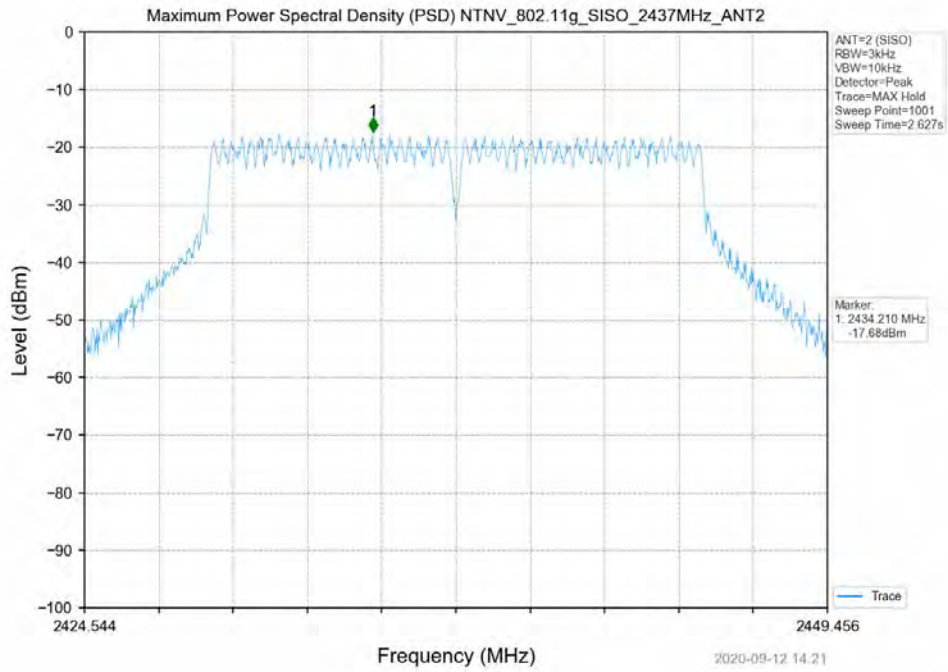


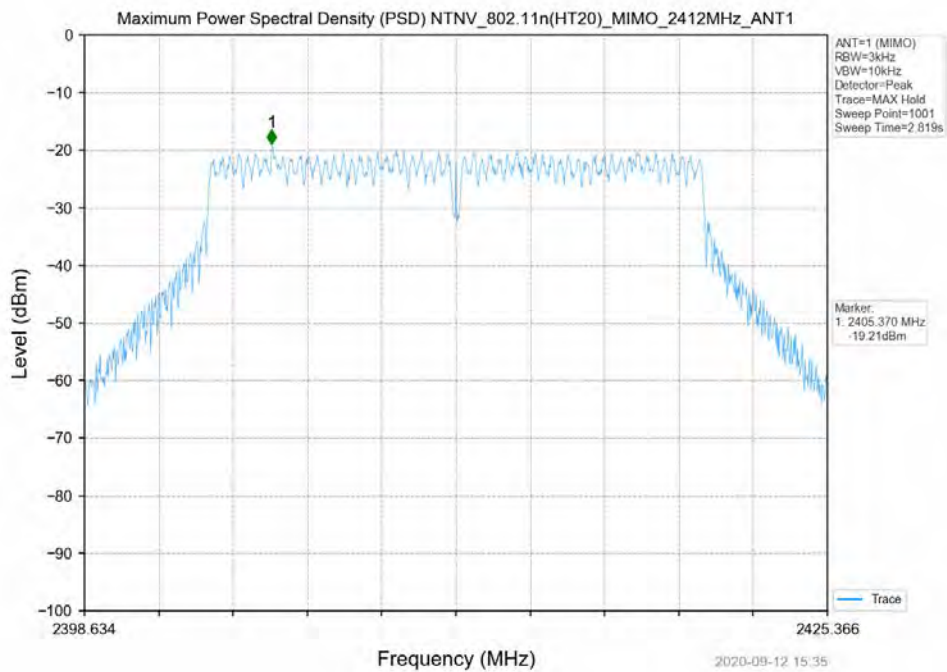
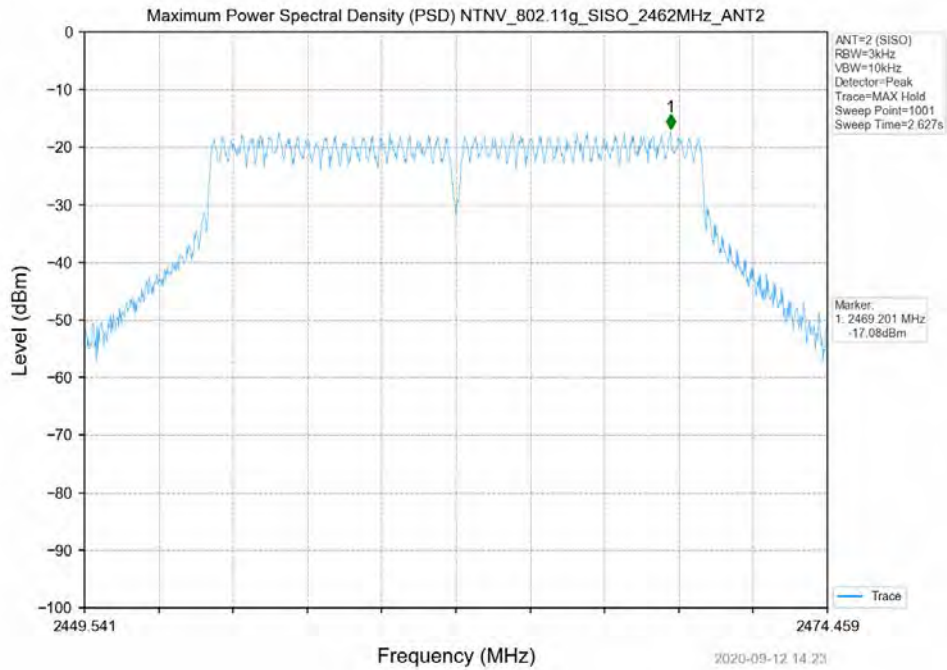


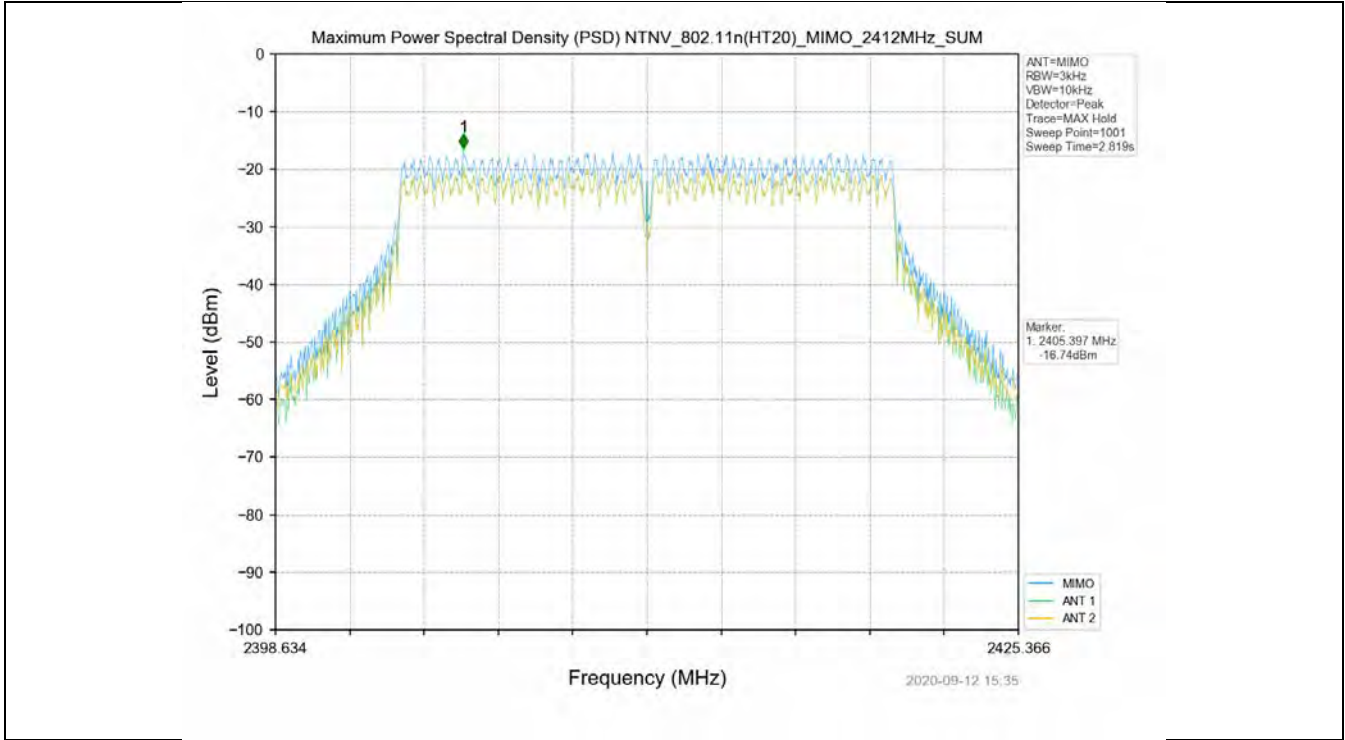
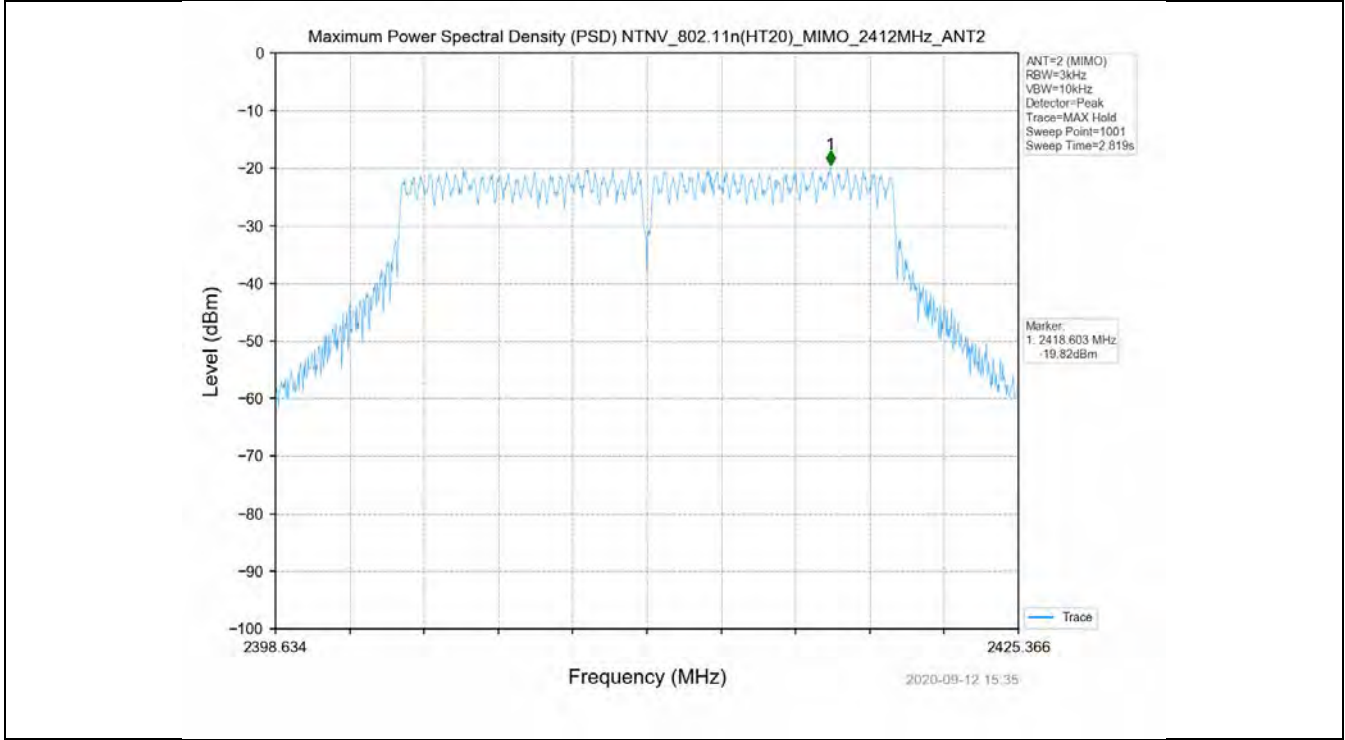


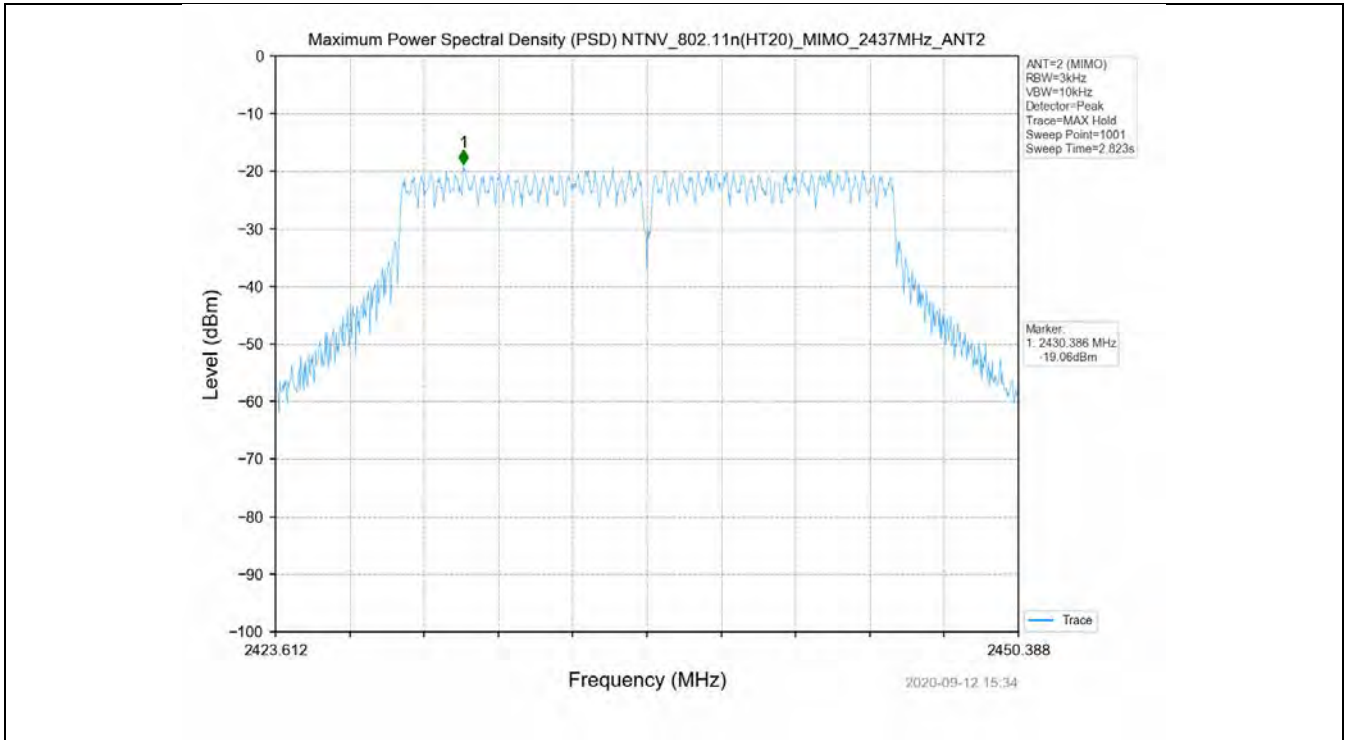
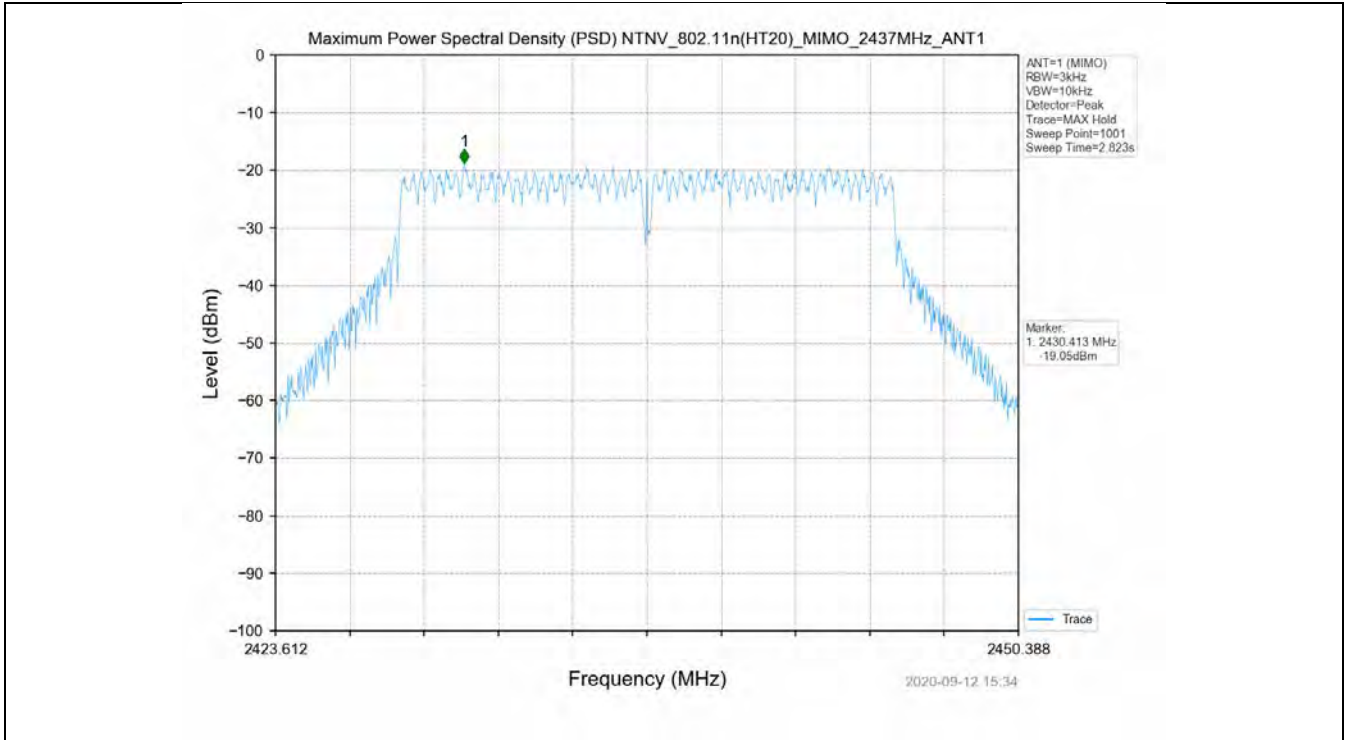


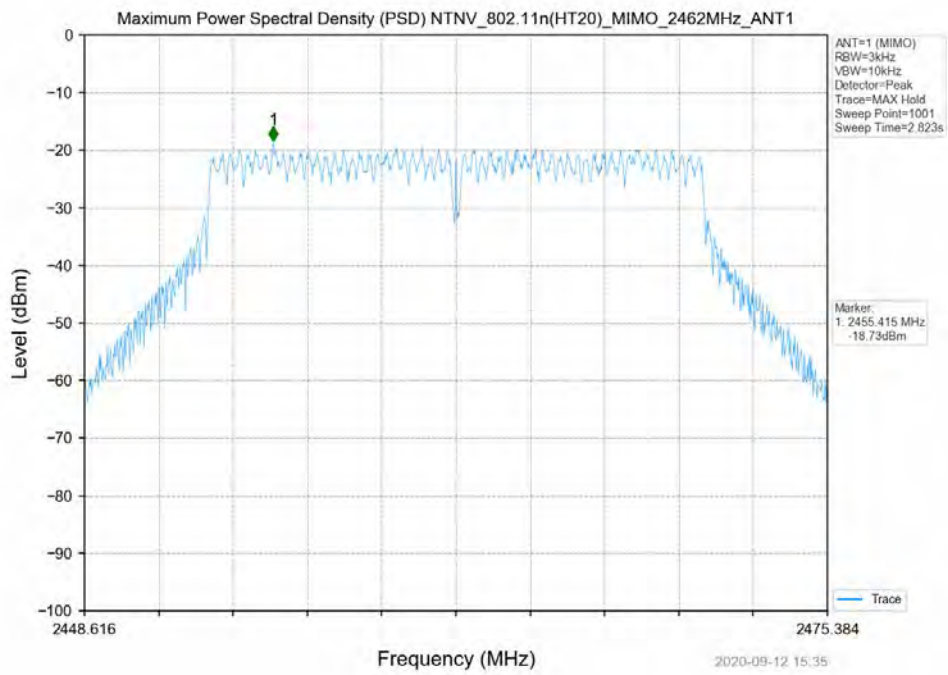
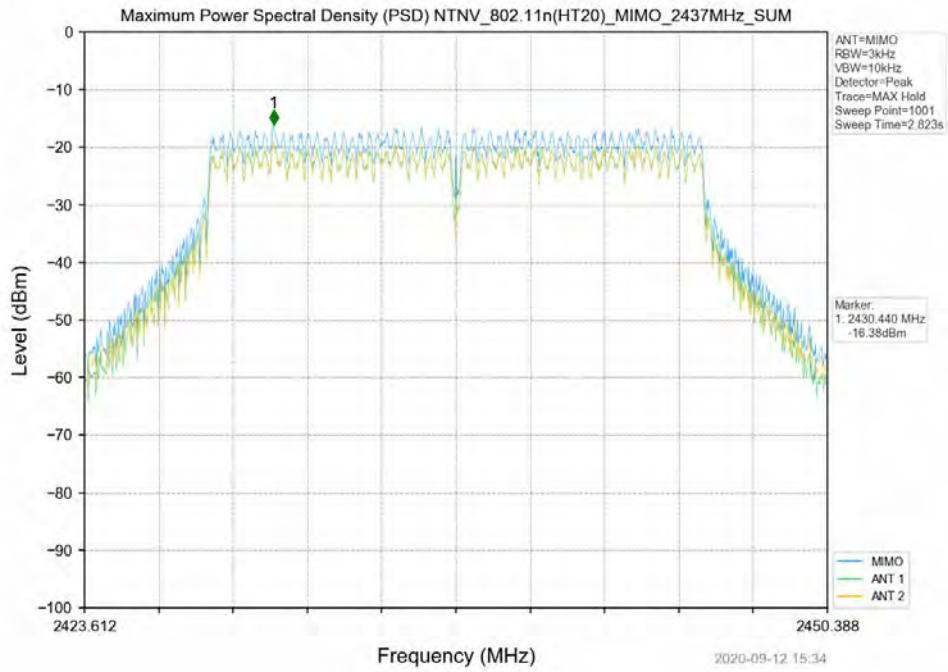


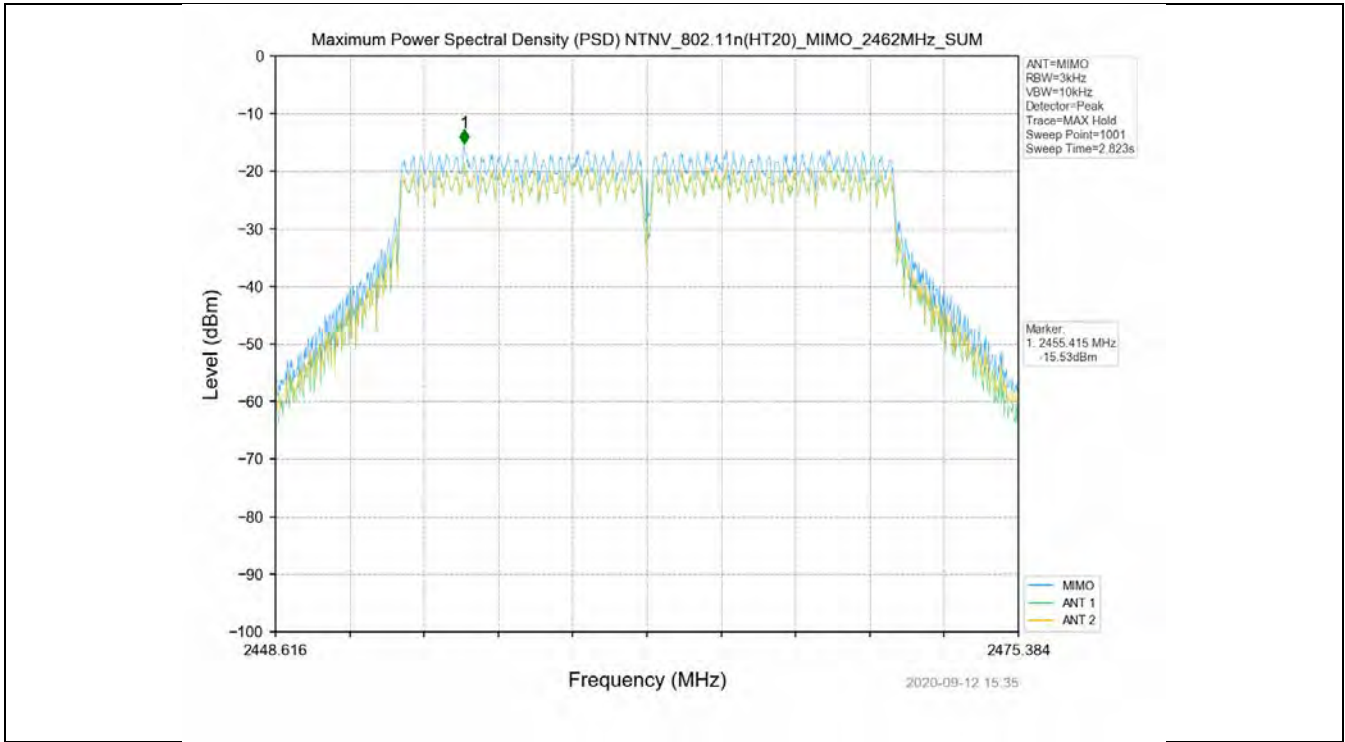
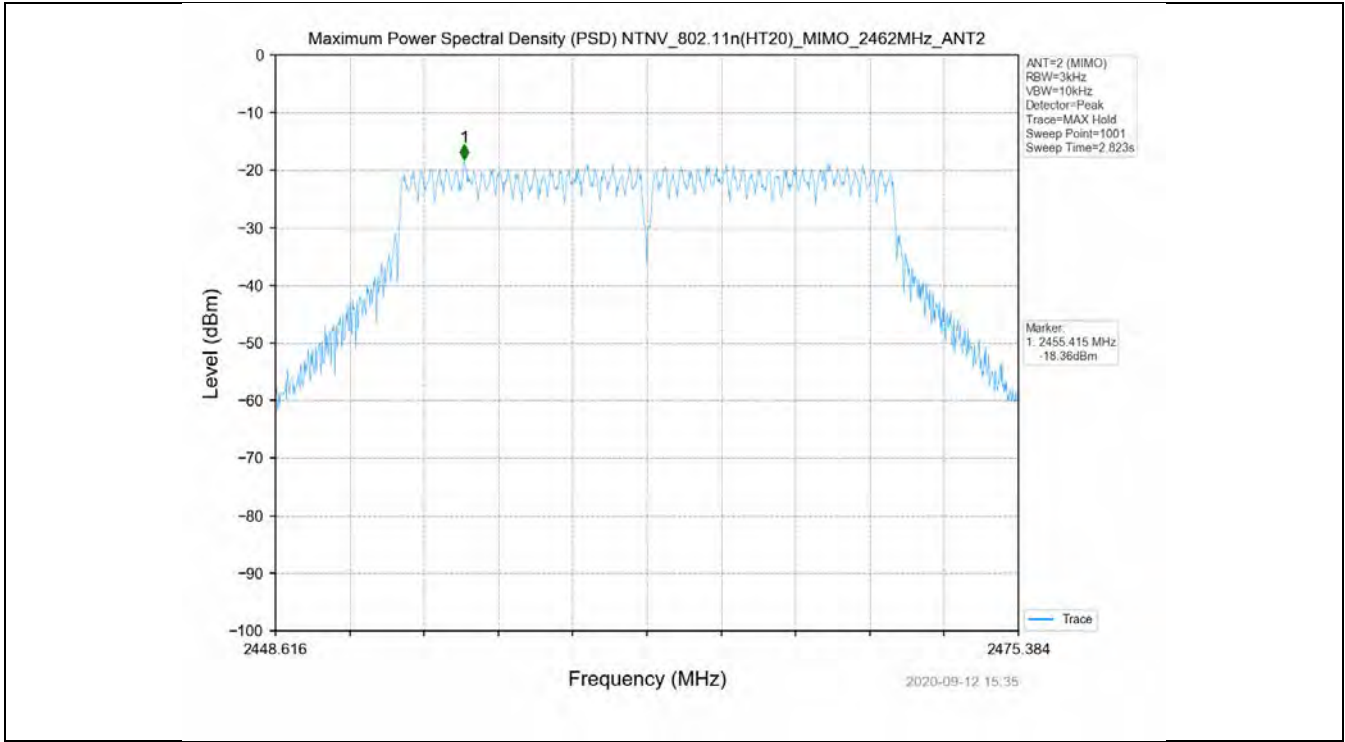


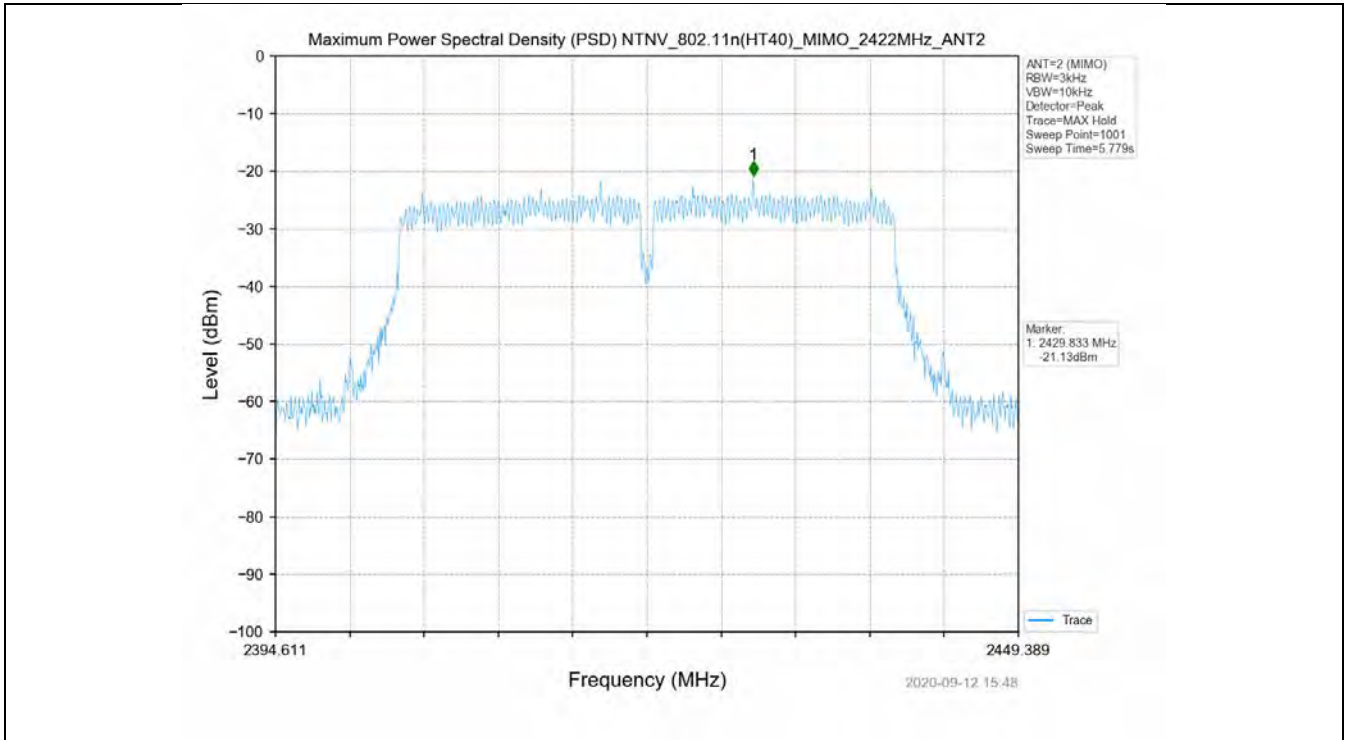
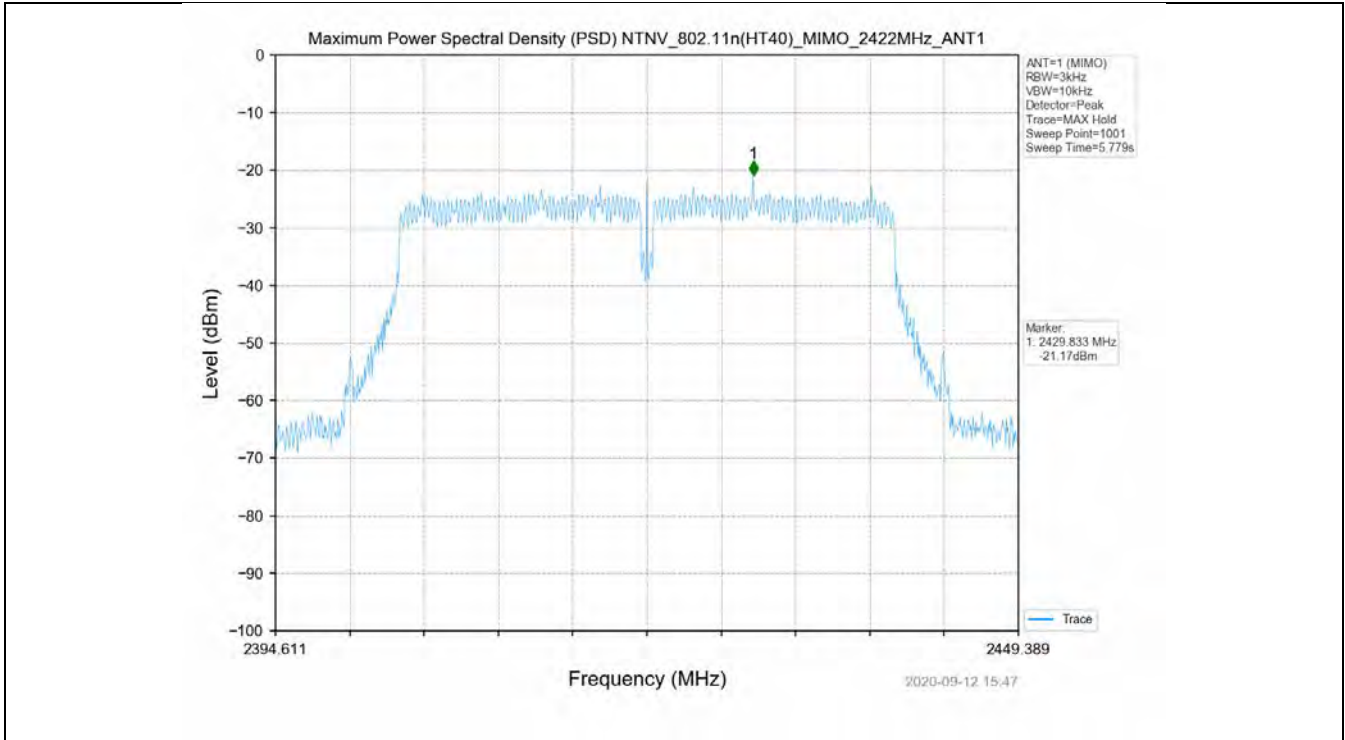




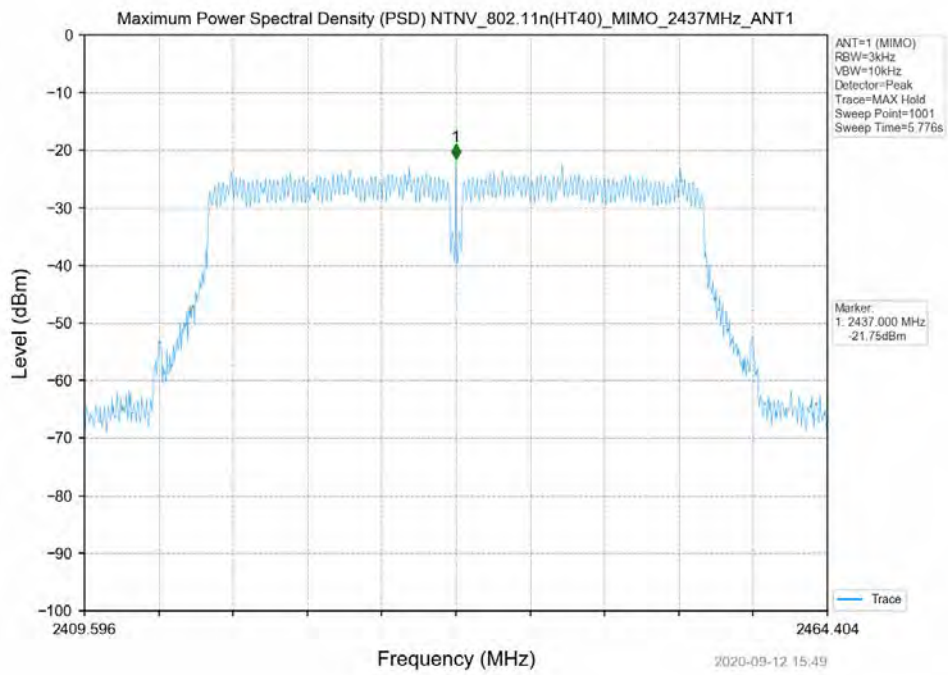
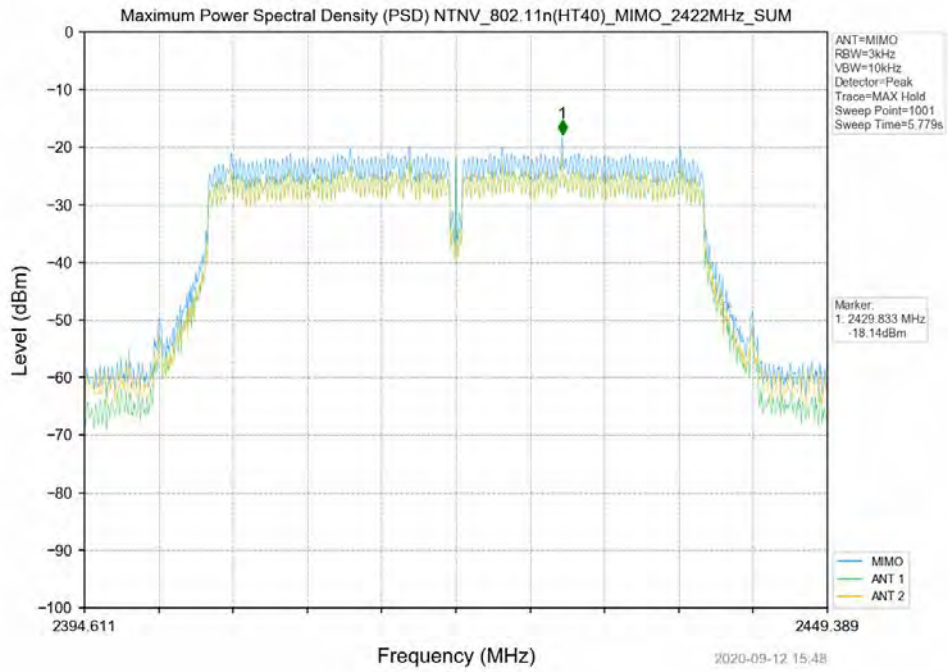


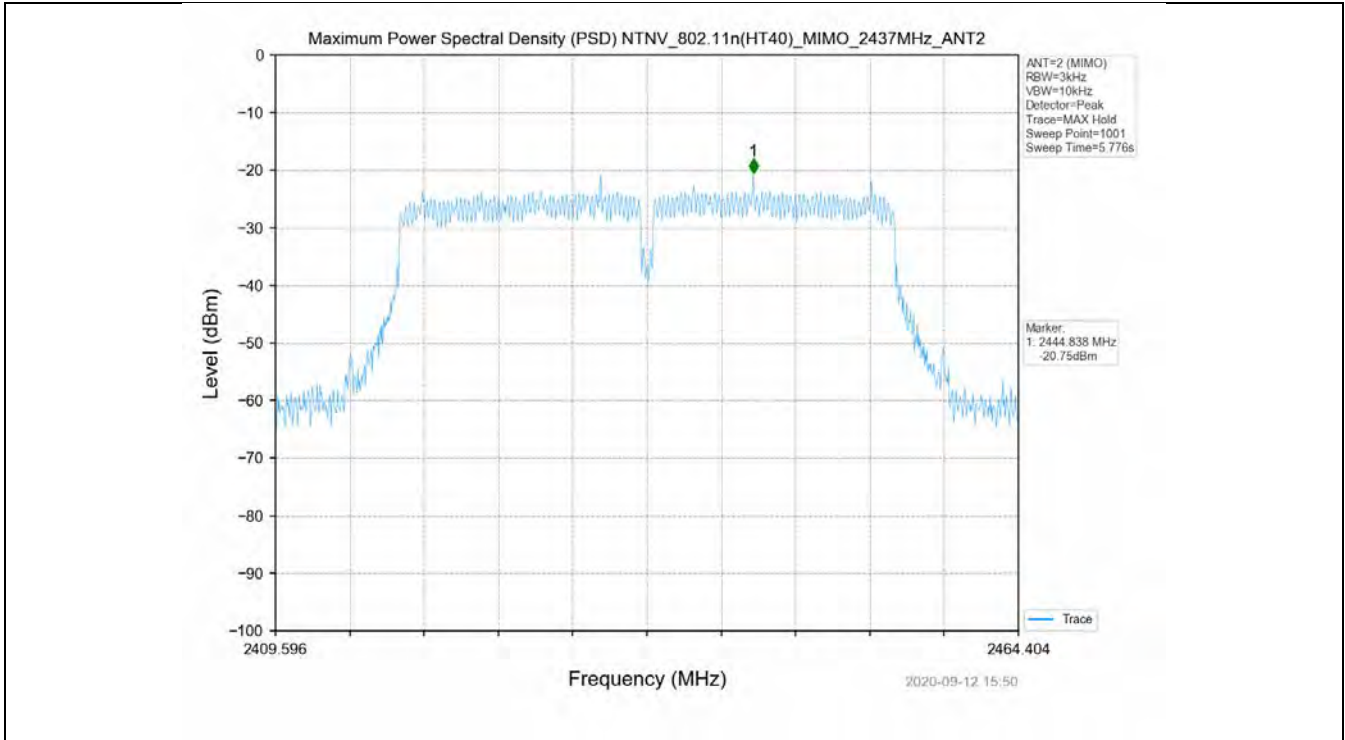


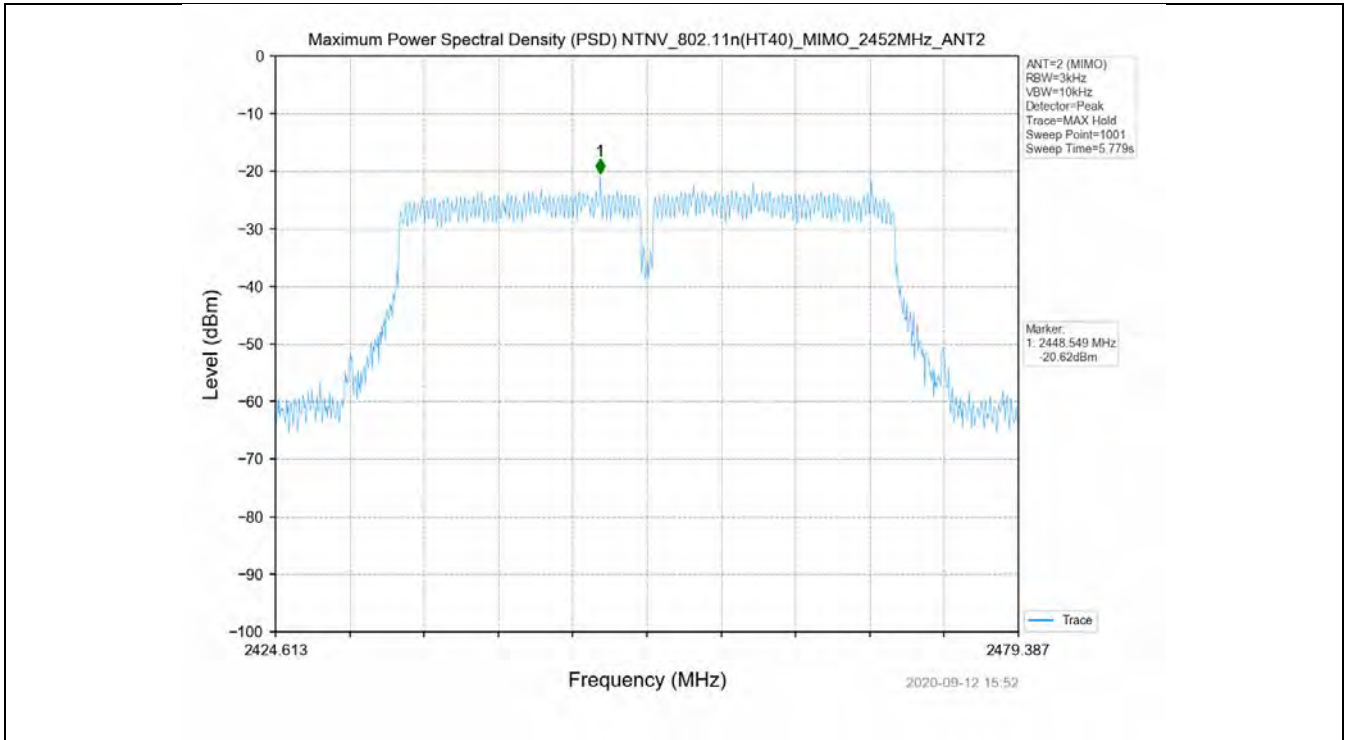
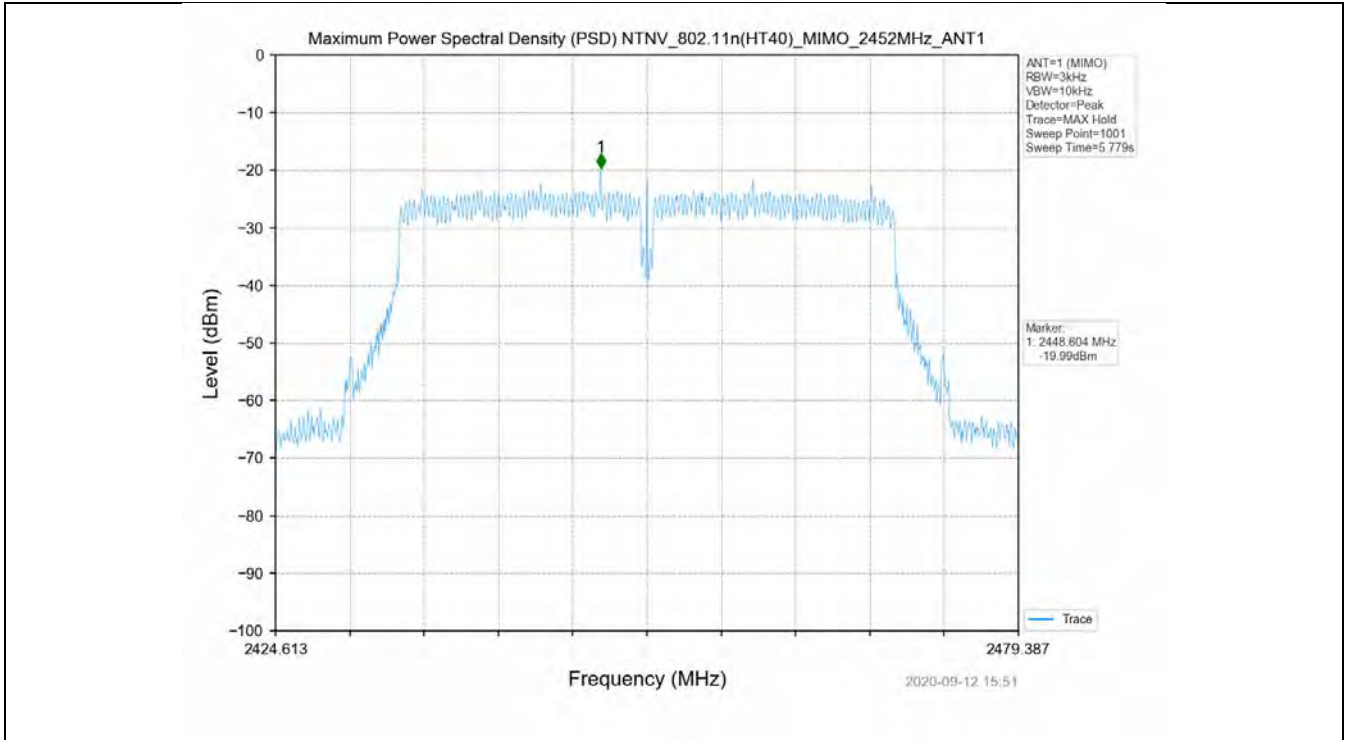












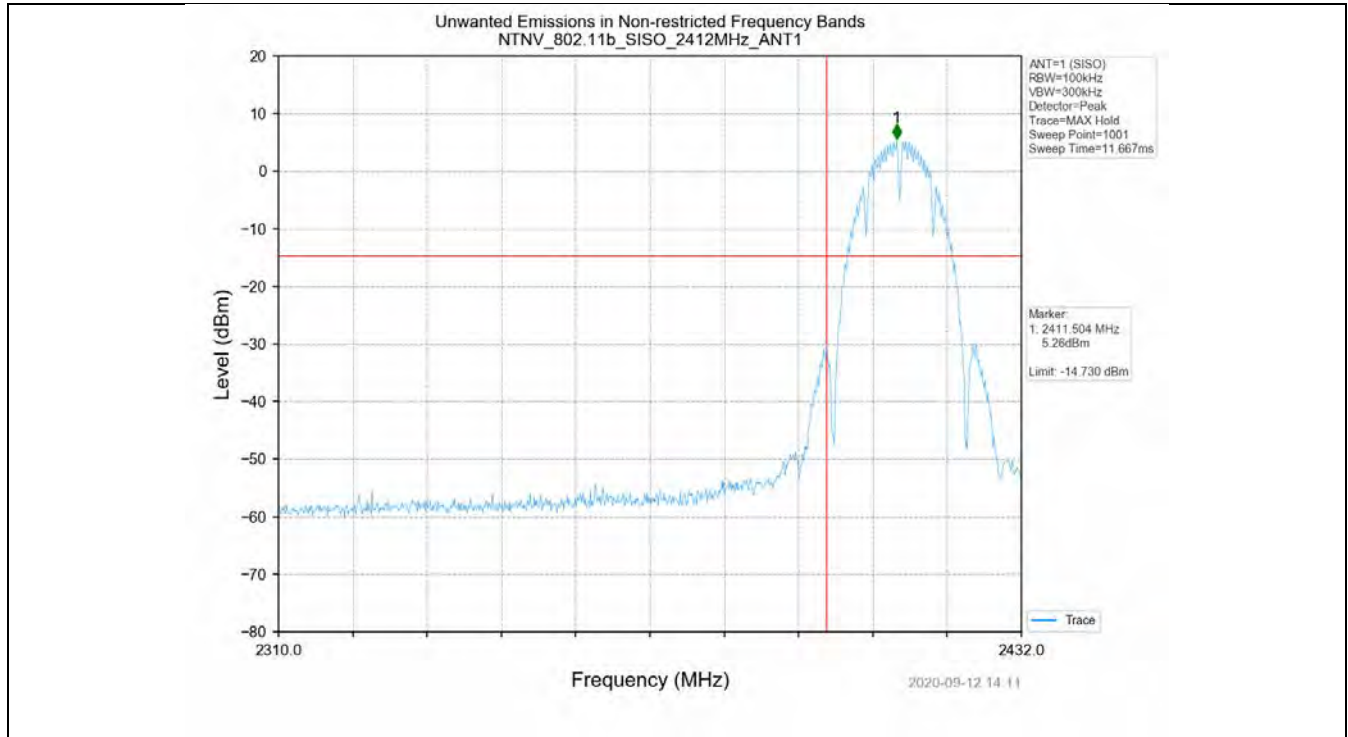
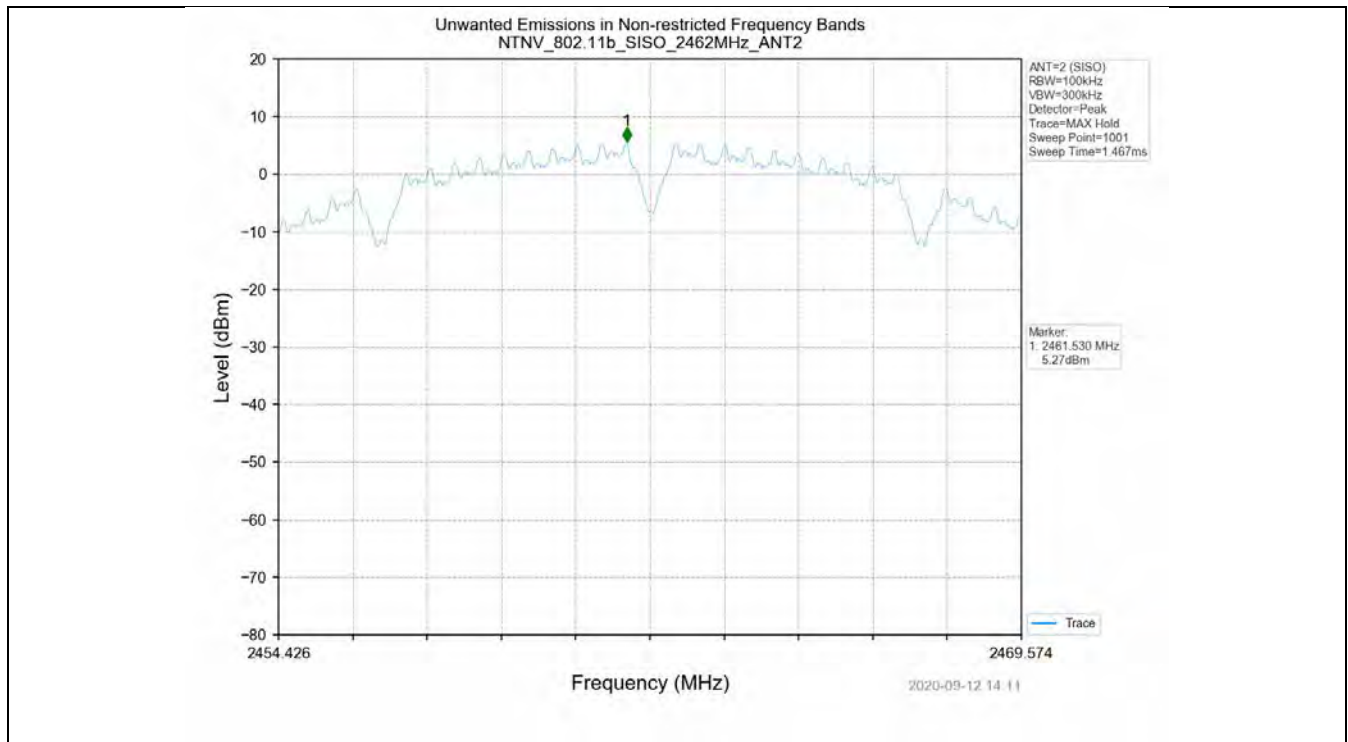


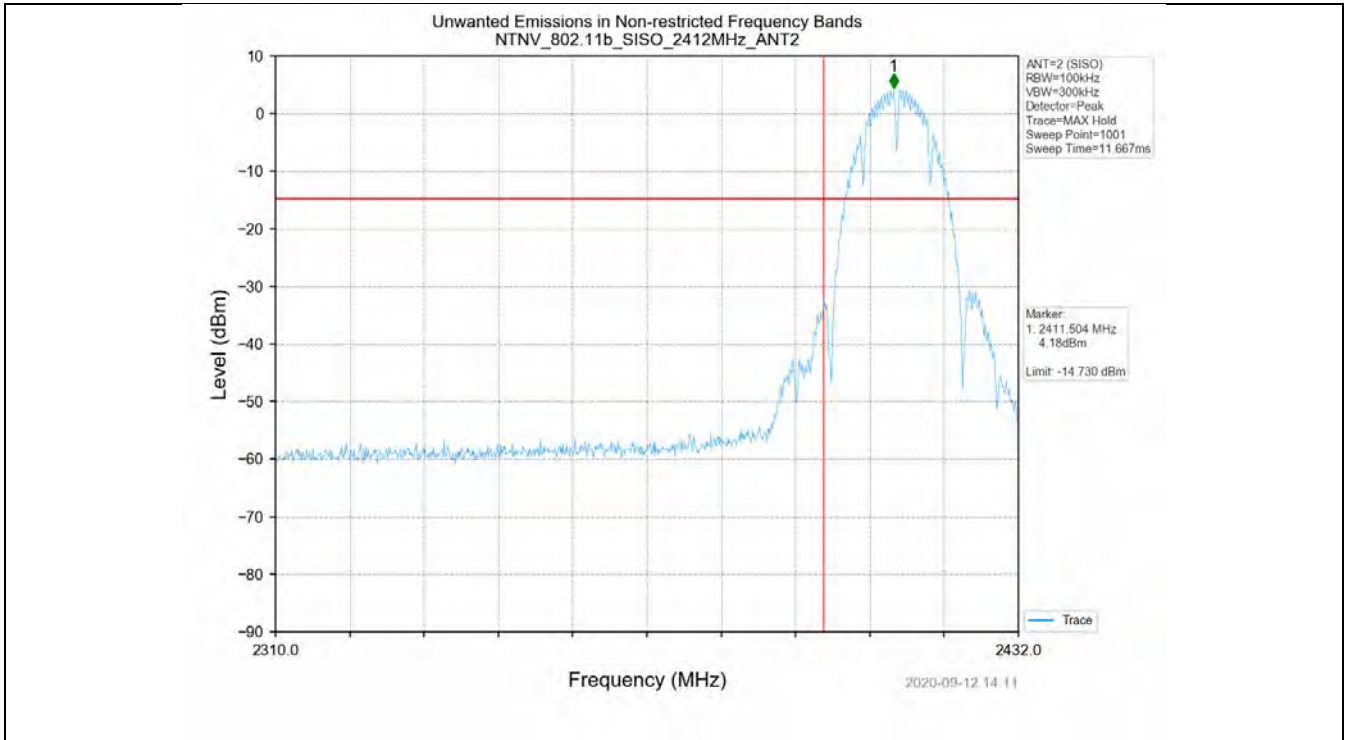
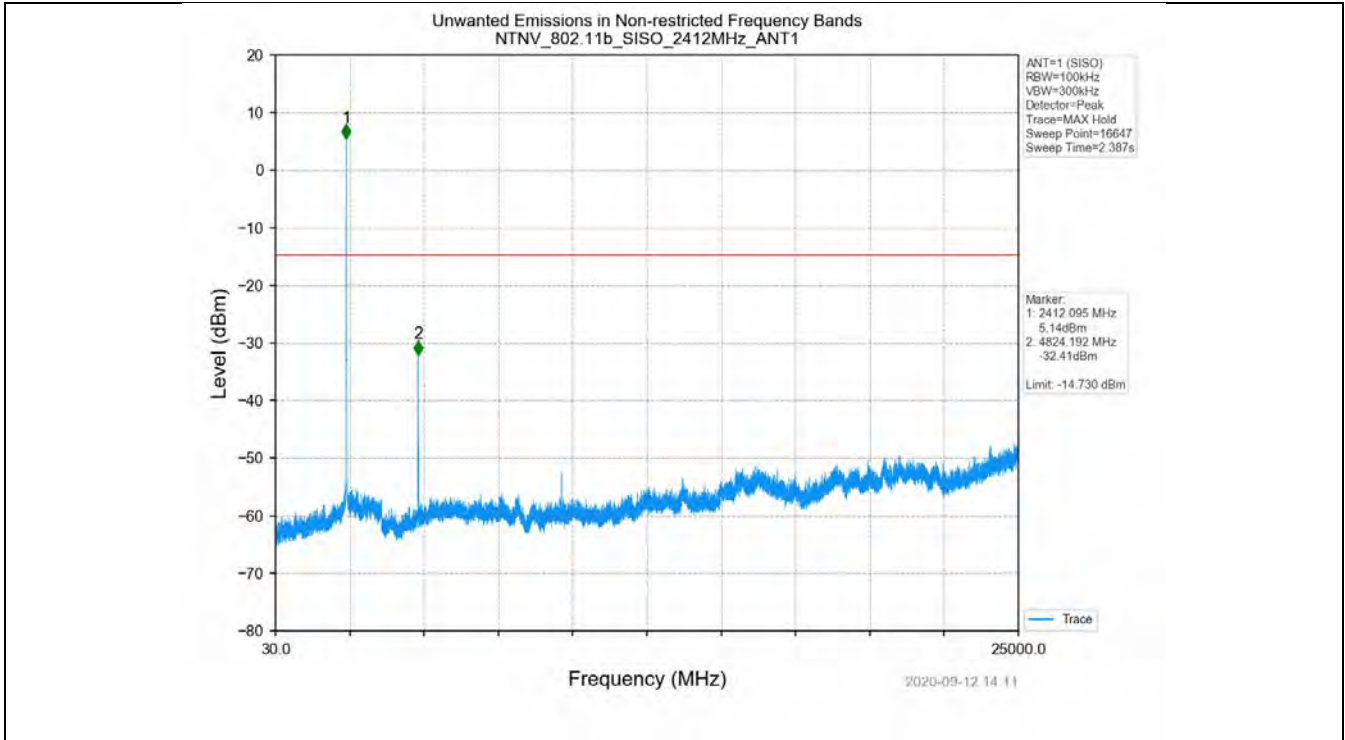
## 5. Unwanted Emissions in Non-restricted Frequency Bands

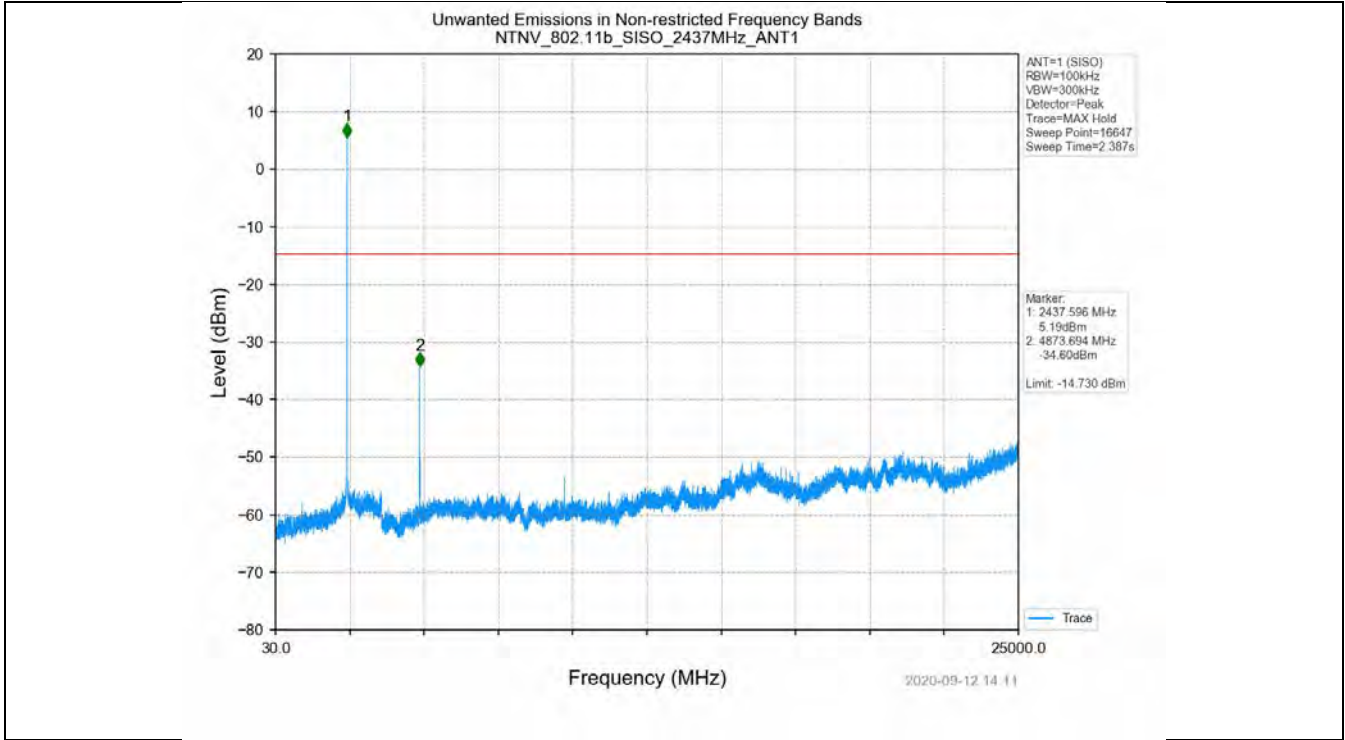
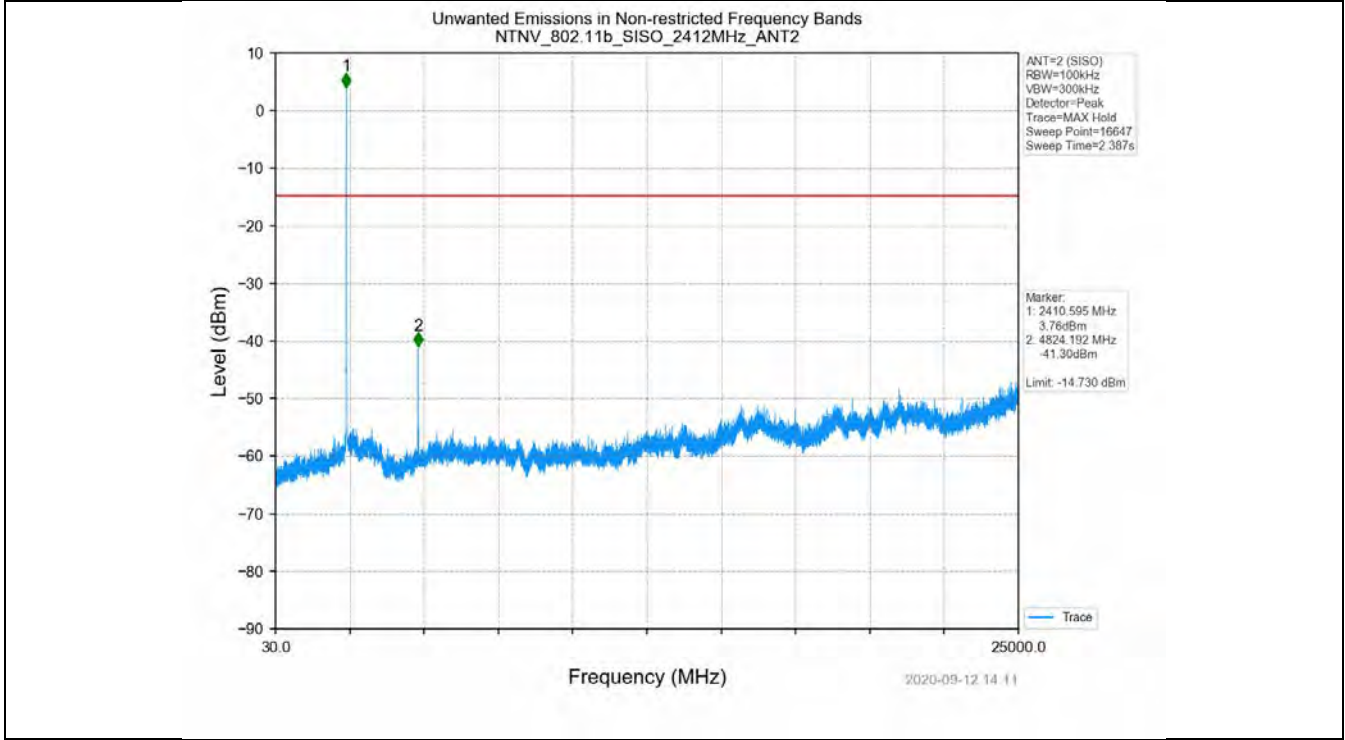
### 5.1 Test Result

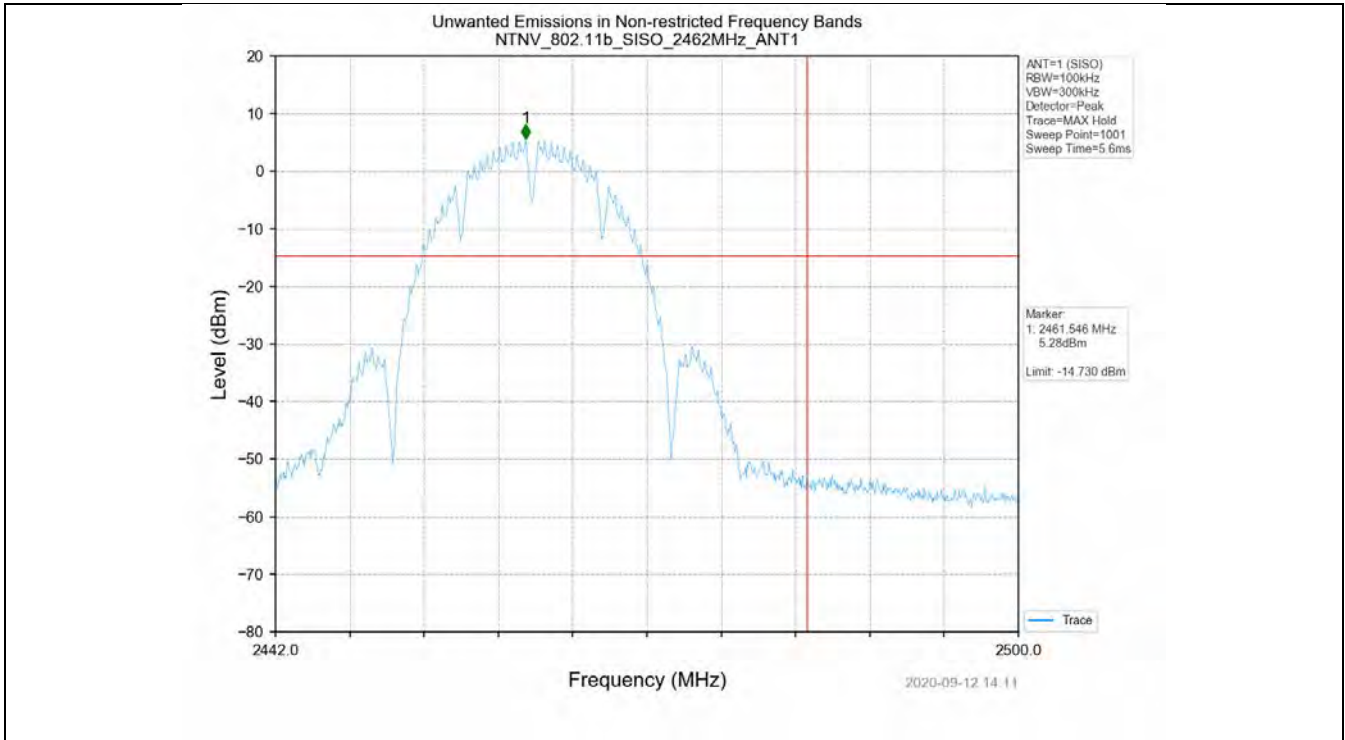
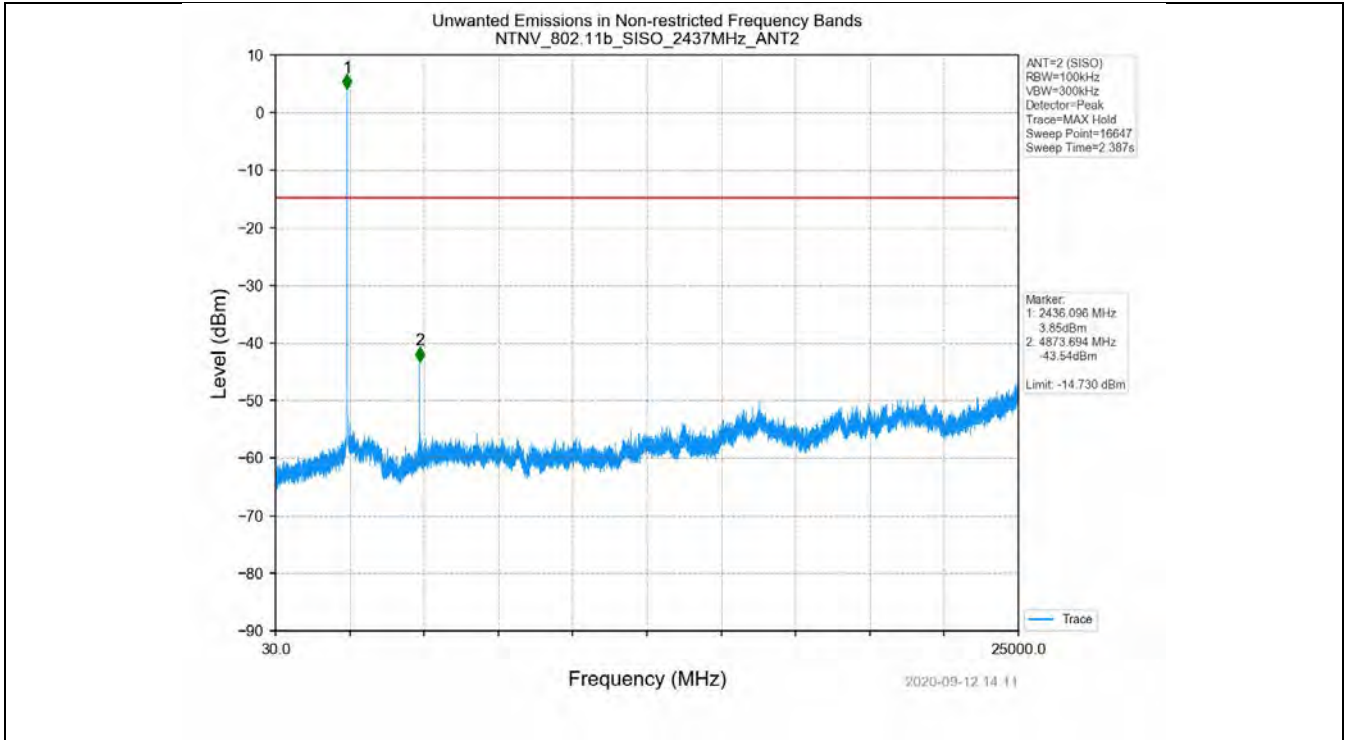
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-14.73	PASS
			2	Refer to test graph	-14.73	PASS
	2437	SISO	1	Refer to test graph	-14.73	PASS
			2	Refer to test graph	-14.73	PASS
	2462	SISO	1	Refer to test graph	-14.73	PASS
			2	Refer to test graph	-14.73	PASS
802.11g	2412	SISO	1	Refer to test graph	-22.78	PASS
			2	Refer to test graph	-22.78	PASS
	2437	SISO	1	Refer to test graph	-22.78	PASS
			2	Refer to test graph	-22.78	PASS
	2462	SISO	1	Refer to test graph	-22.78	PASS
			2	Refer to test graph	-22.78	PASS
802.11n(HT20)	2412	MIMO	1	Refer to test graph	-23.34	PASS
			2	Refer to test graph	-23.34	PASS
	2437	MIMO	1	Refer to test graph	-23.34	PASS
			2	Refer to test graph	-23.34	PASS
	2462	MIMO	1	Refer to test graph	-23.34	PASS
			2	Refer to test graph	-23.34	PASS
802.11n(HT40)	2422	MIMO	1	Refer to test graph	-29.16	PASS
			2	Refer to test graph	-29.16	PASS
	2437	MIMO	1	Refer to test graph	-29.16	PASS
			2	Refer to test graph	-29.16	PASS
	2452	MIMO	1	Refer to test graph	-29.16	PASS
			2	Refer to test graph	-29.16	PASS

## 5.2 Test Graph

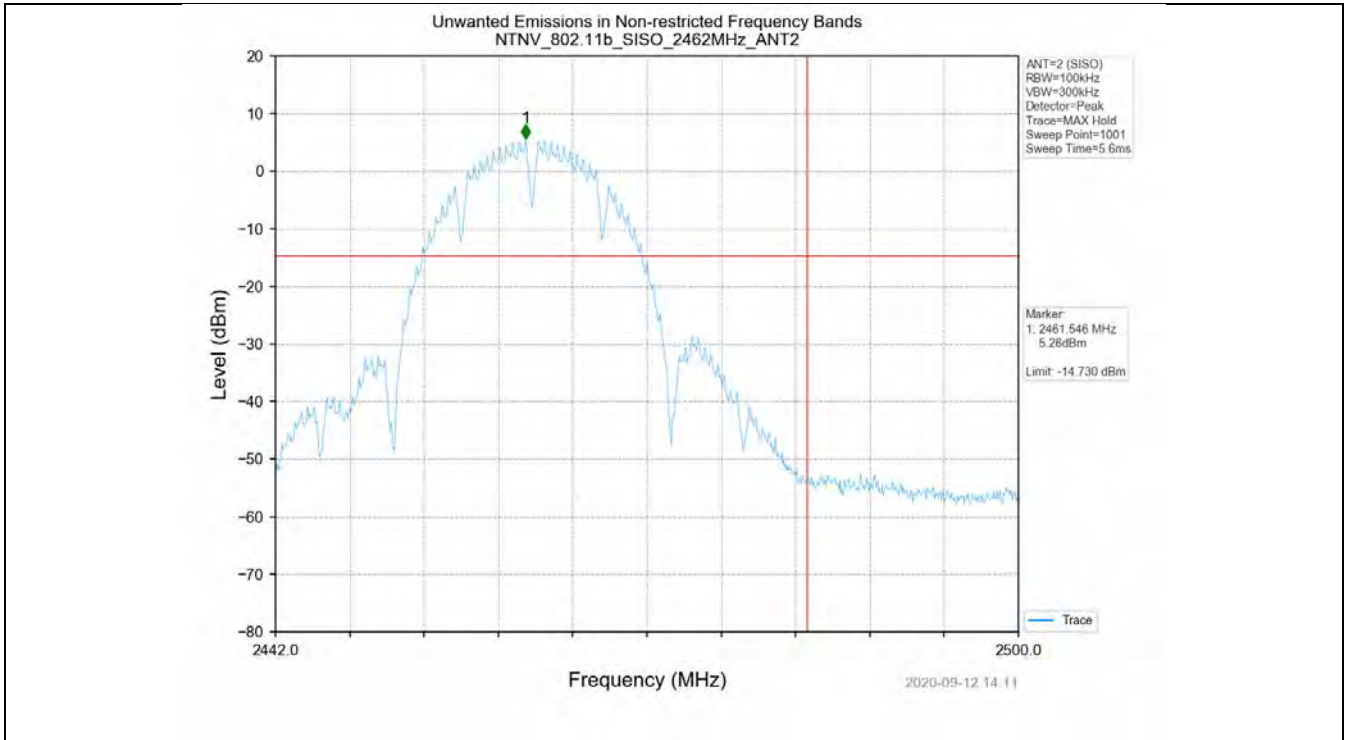
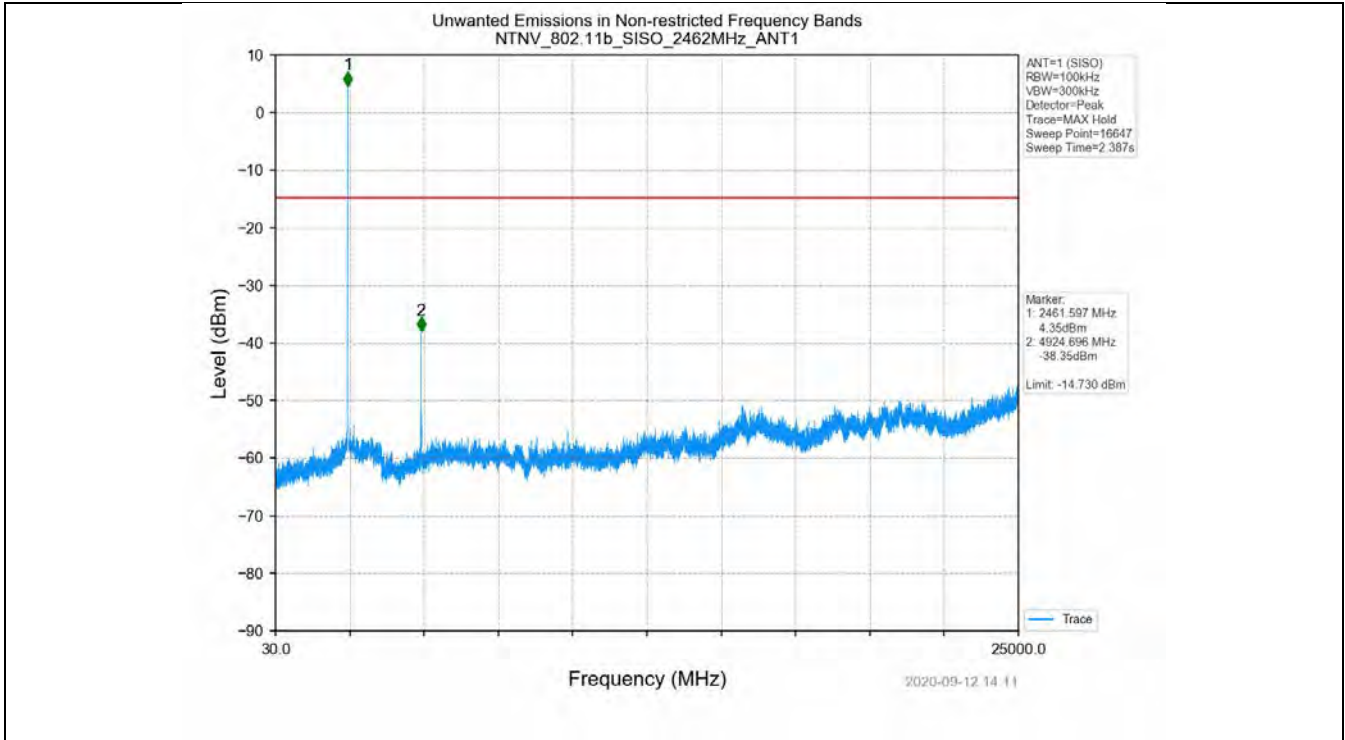


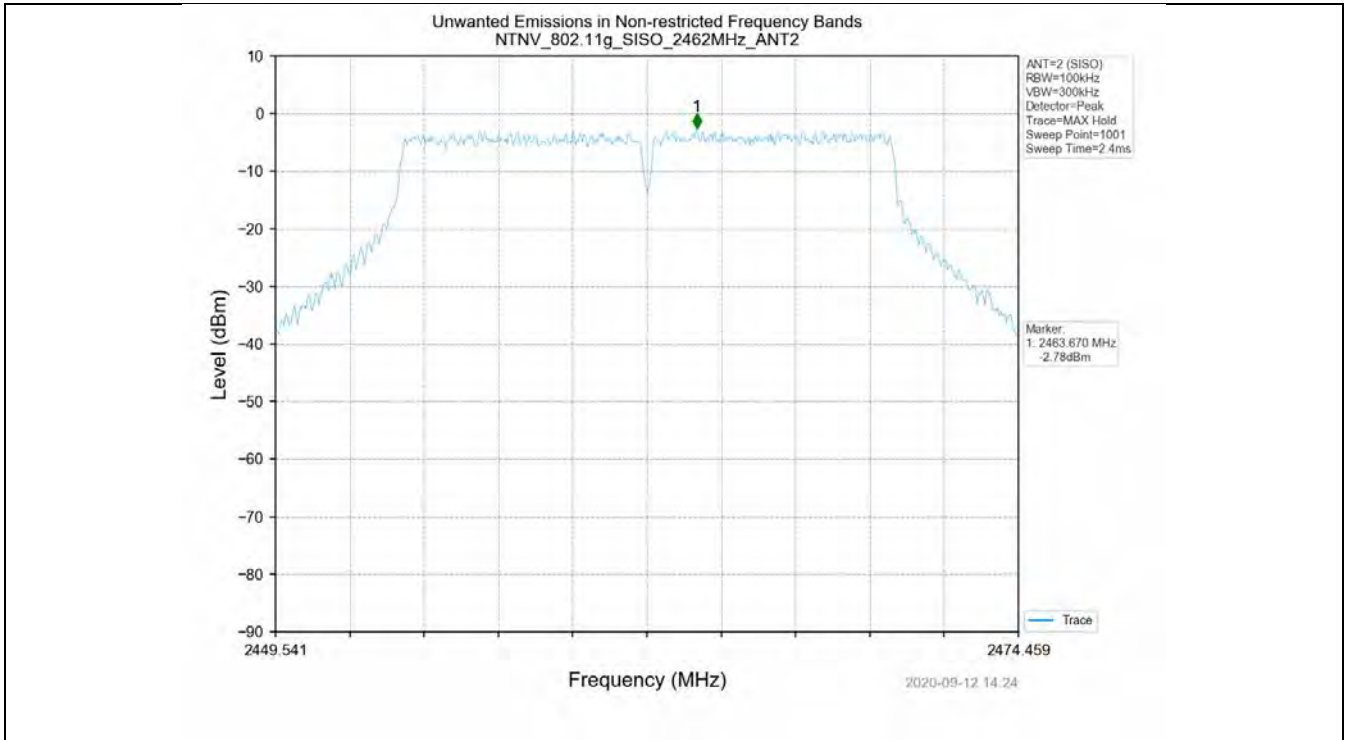
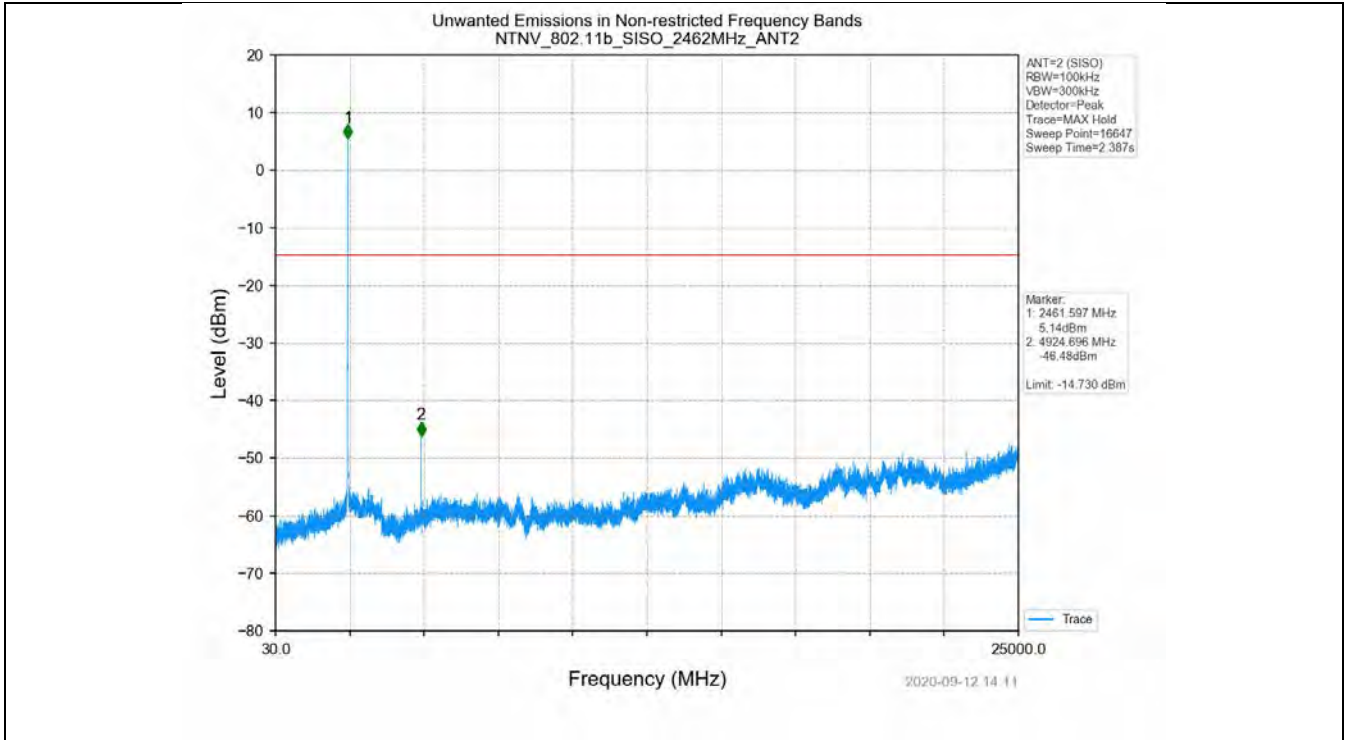


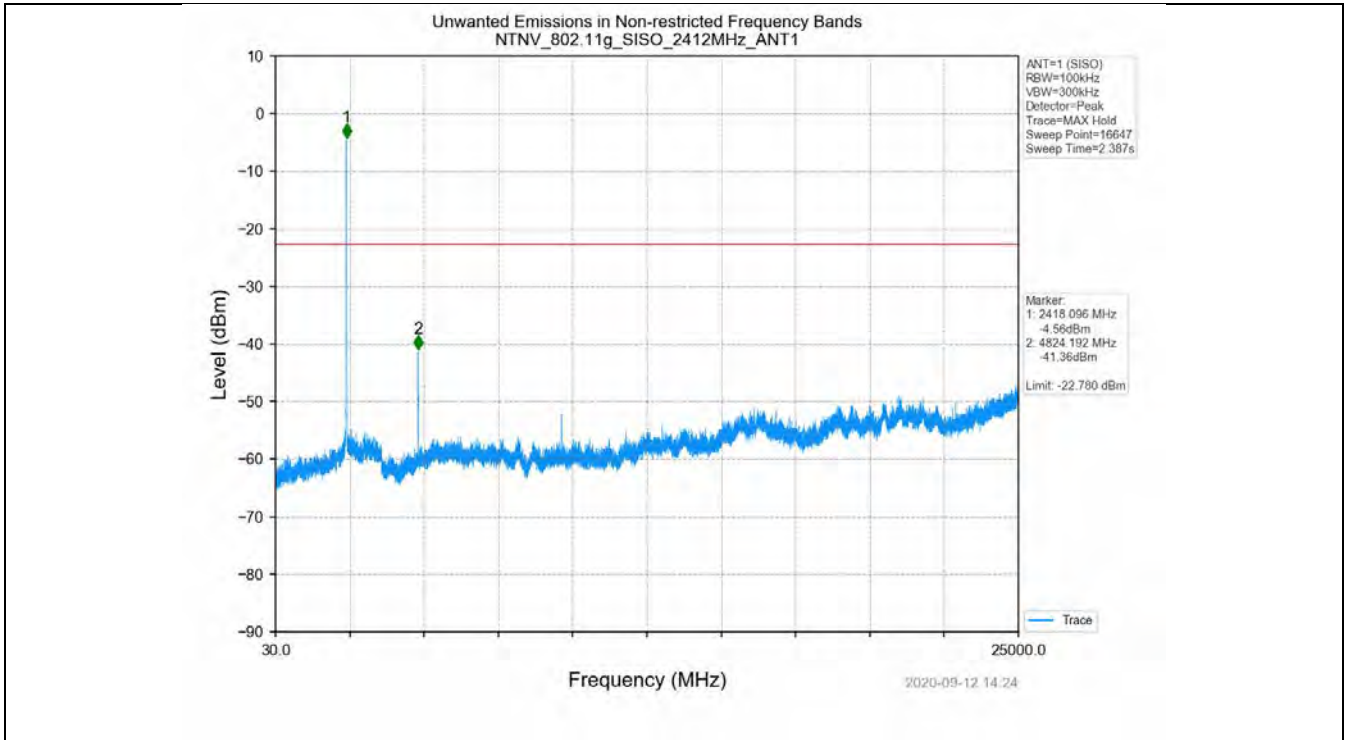
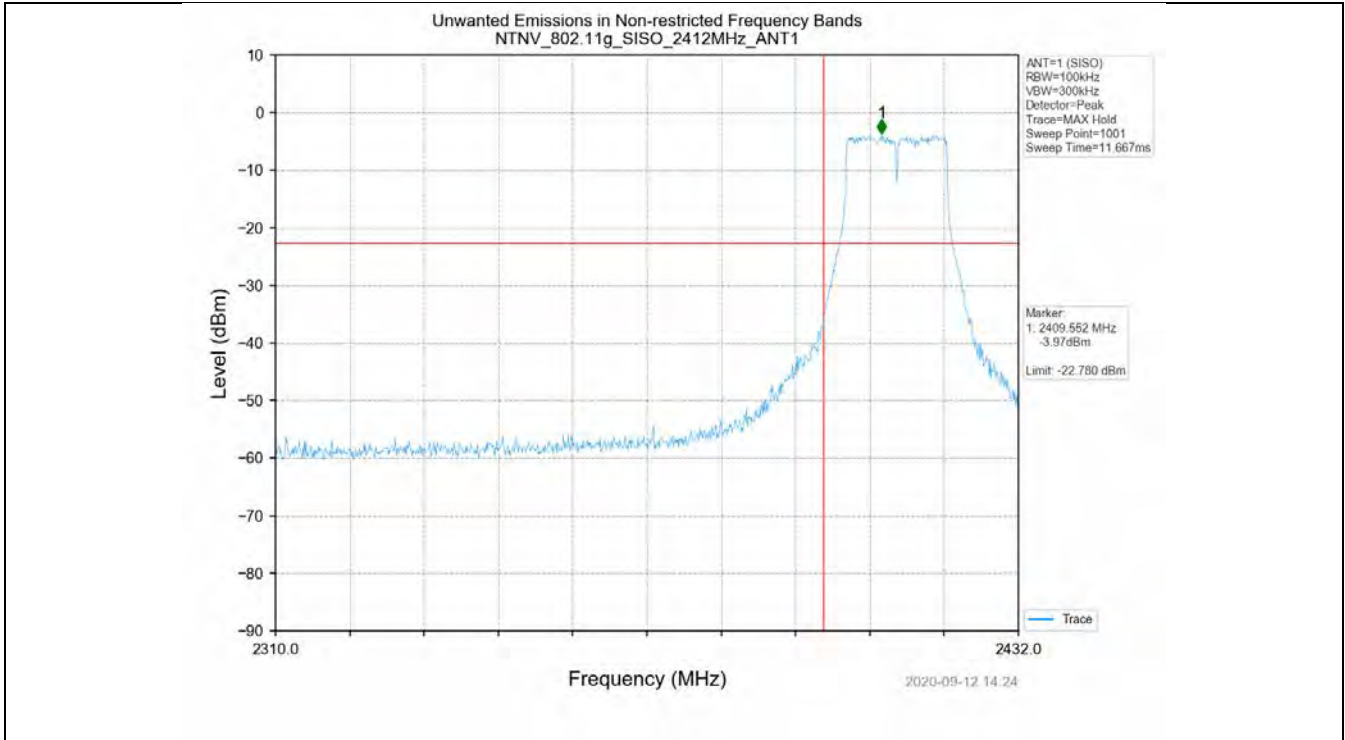


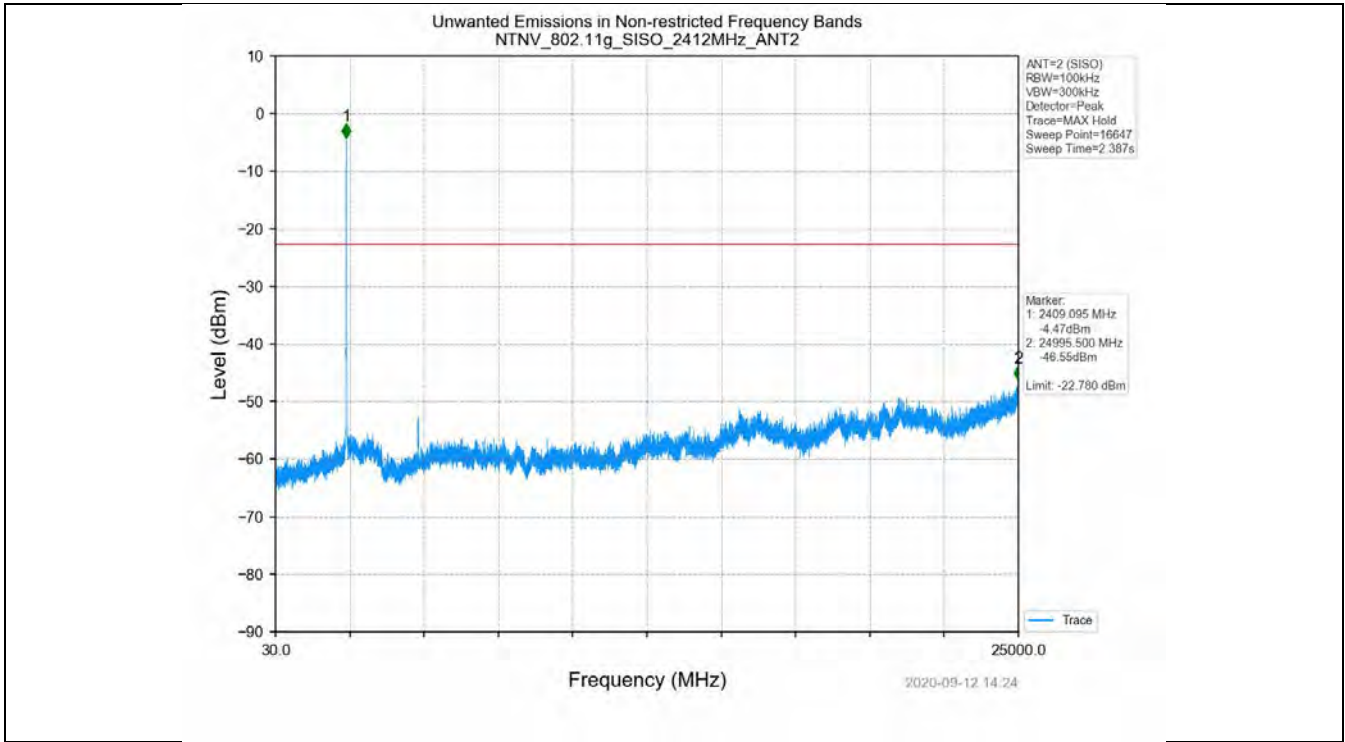
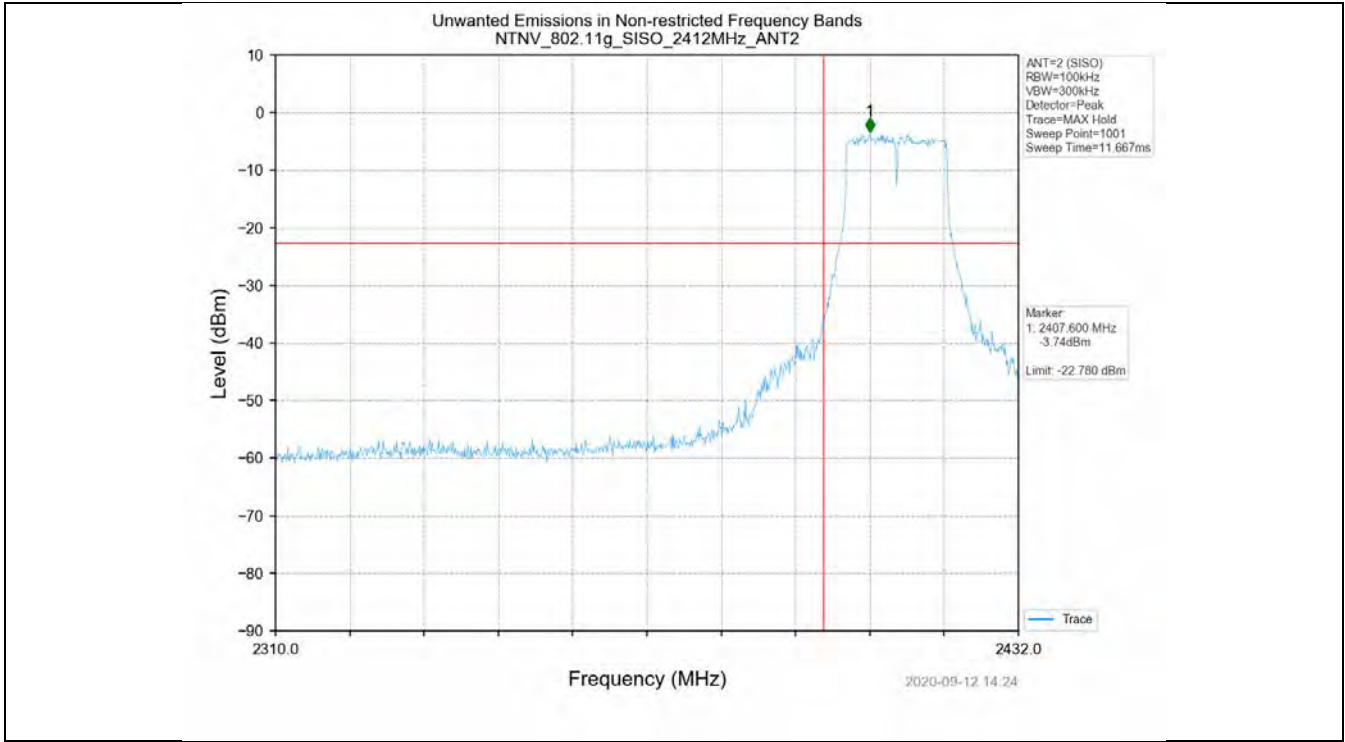




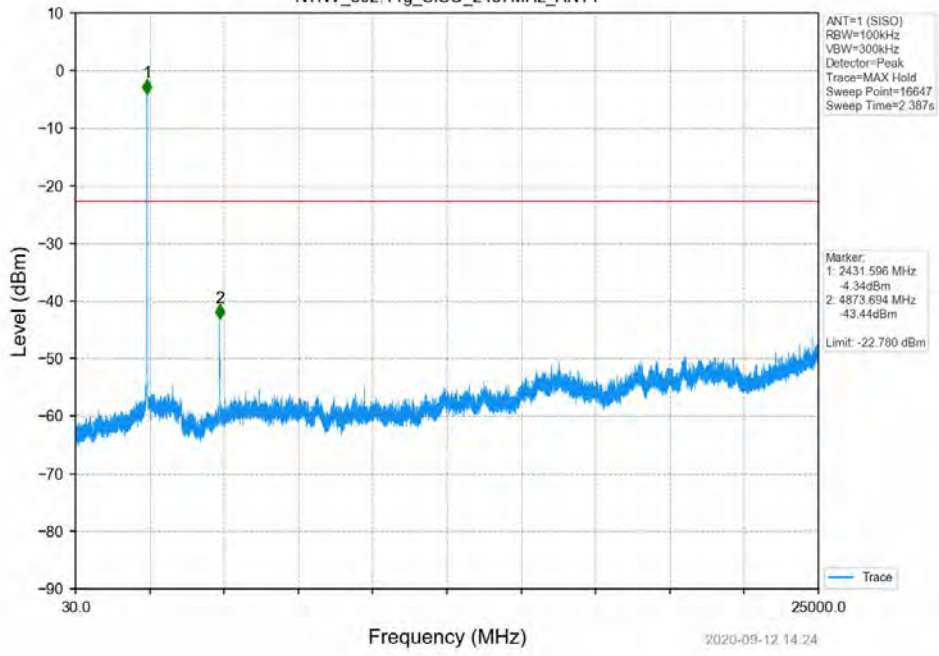




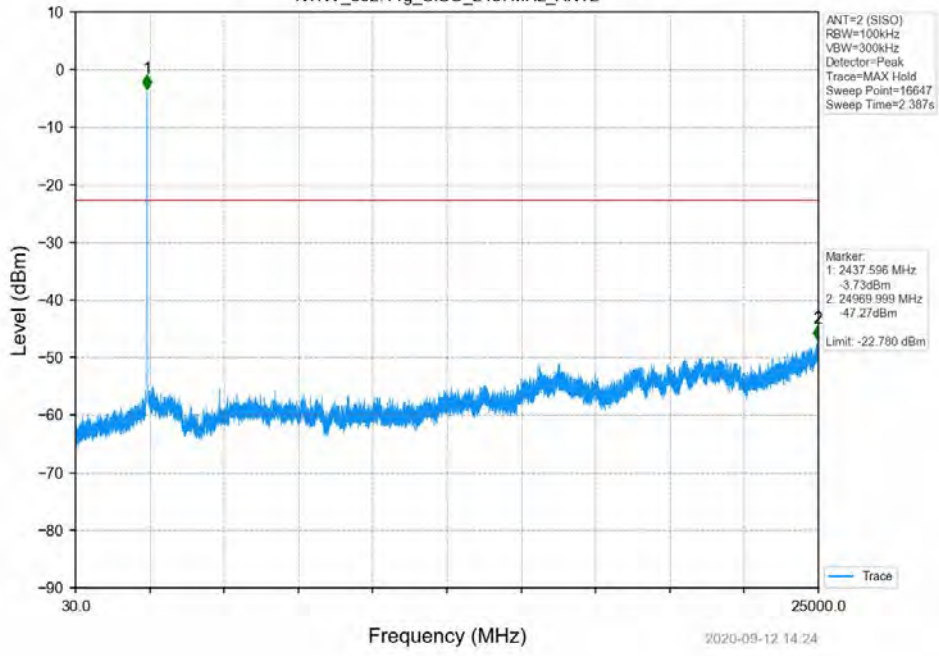


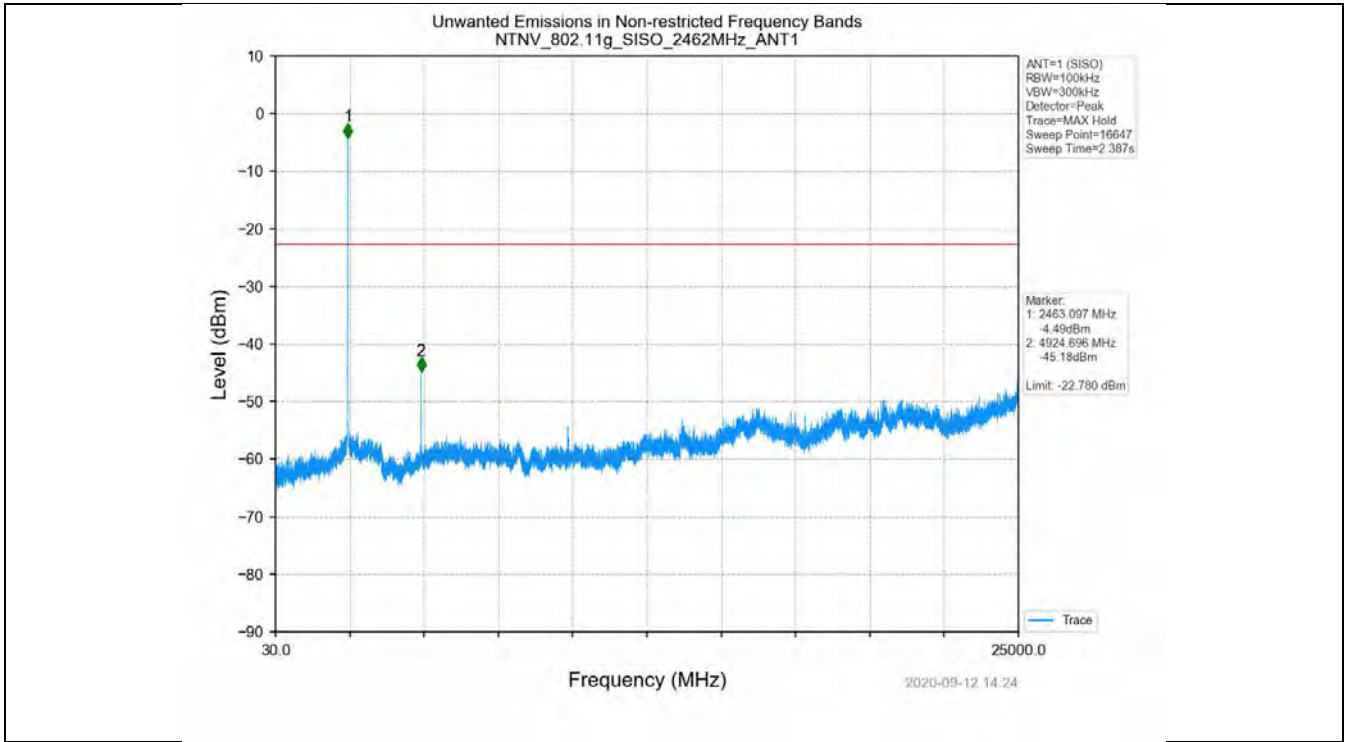
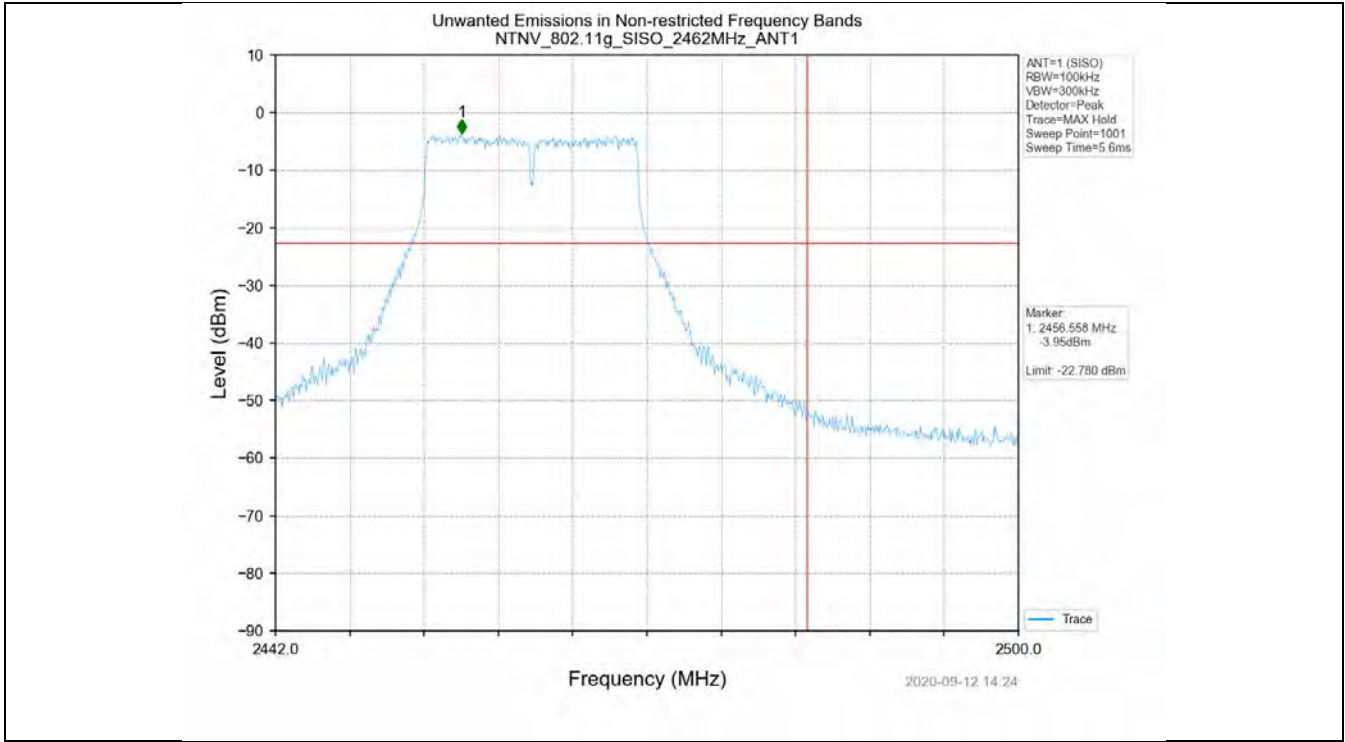


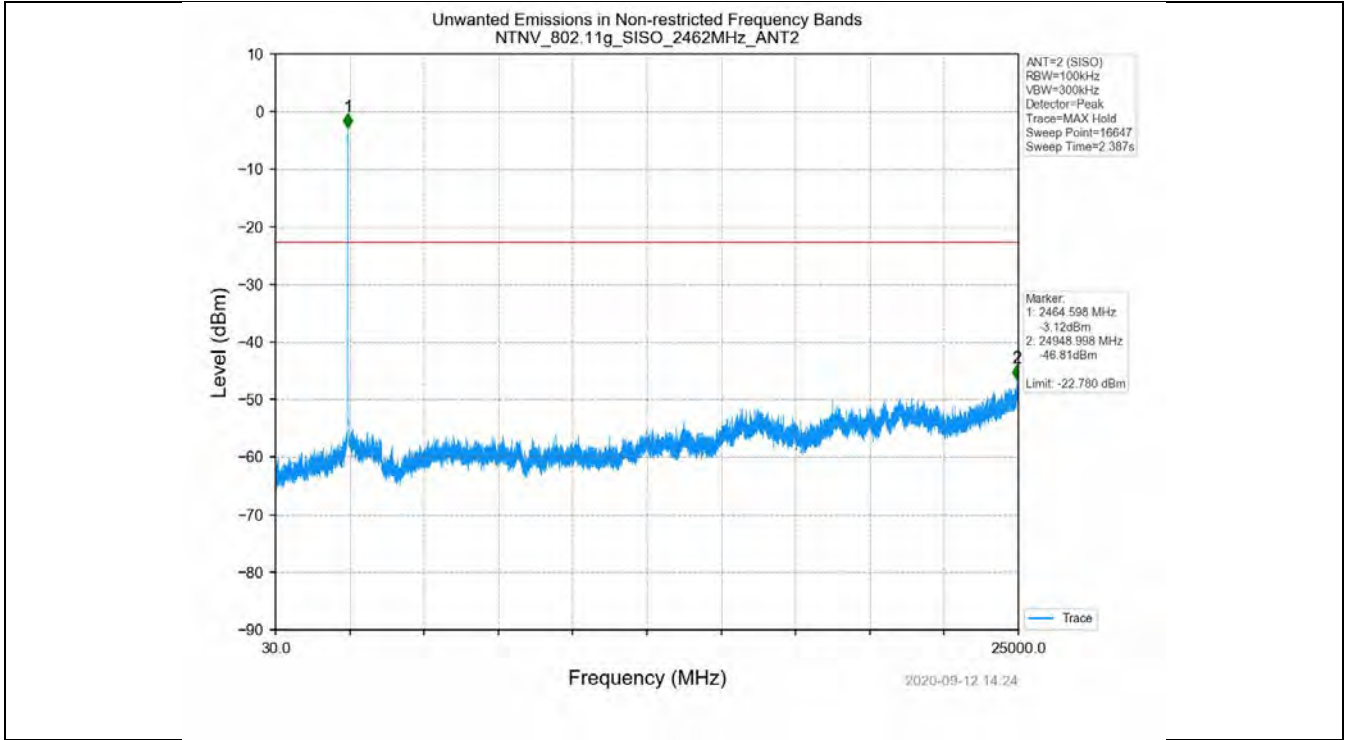
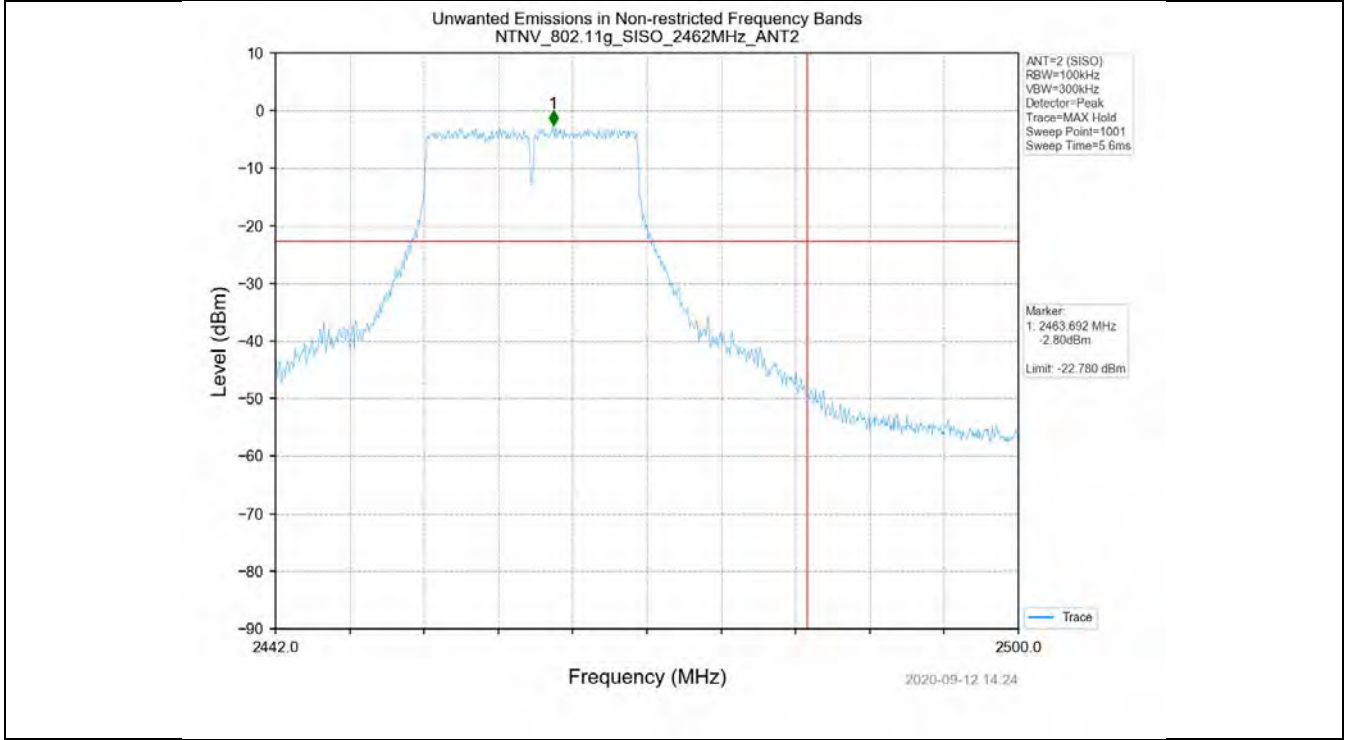
Unwanted Emissions in Non-restricted Frequency Bands  
NTNV\_802.11g\_SISO\_2437MHz\_ANT1

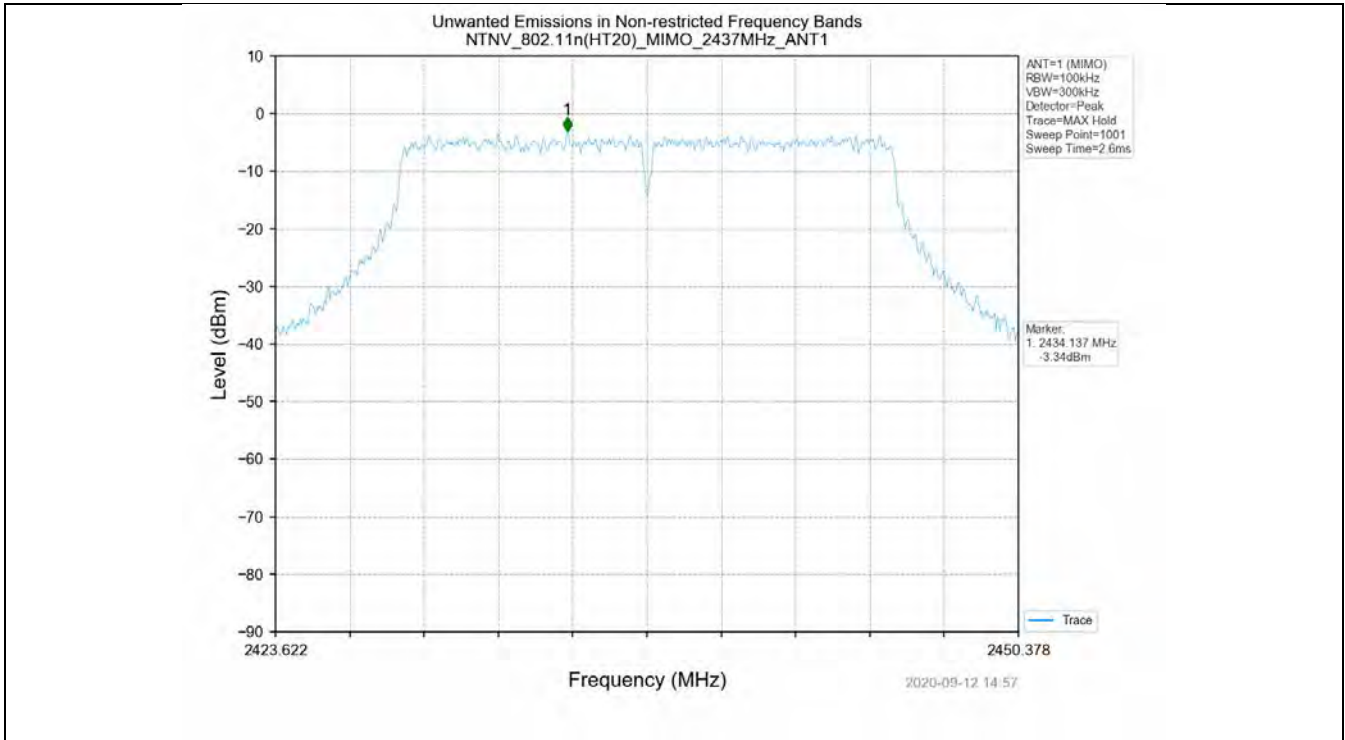
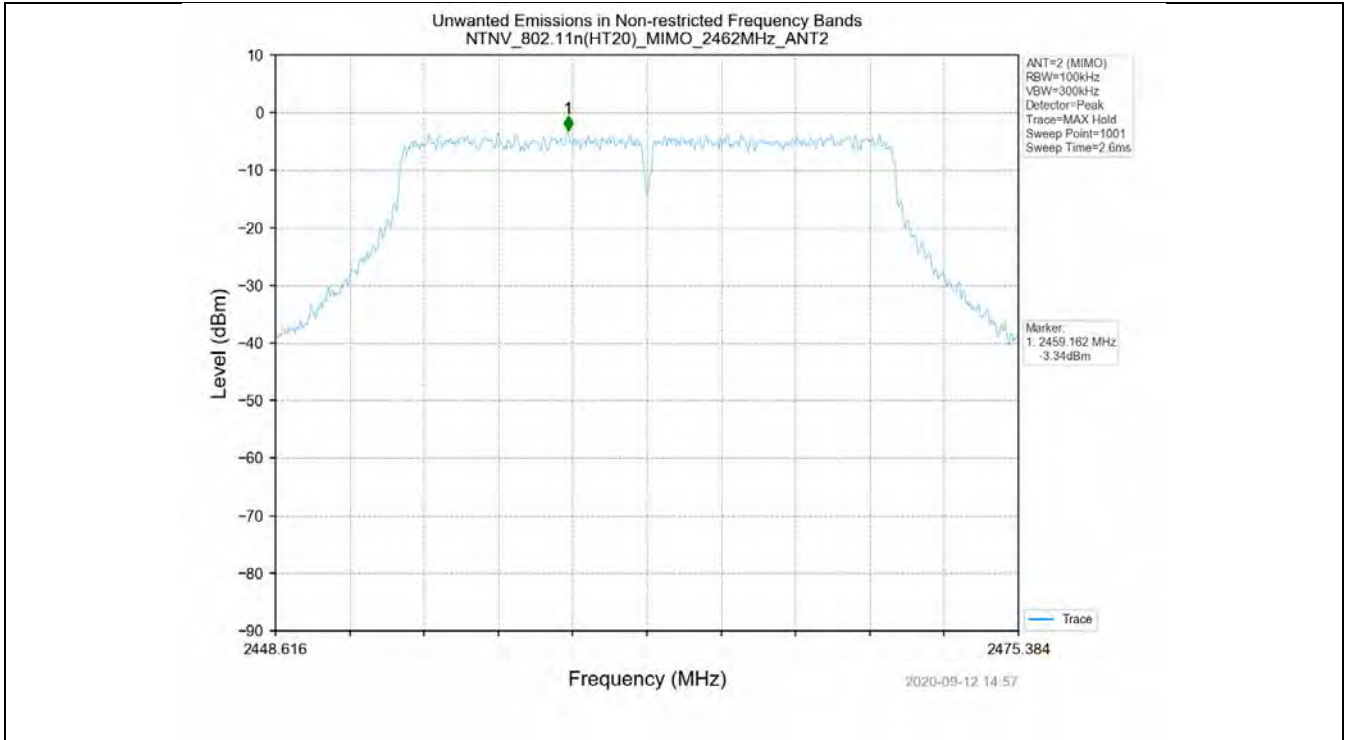


Unwanted Emissions in Non-restricted Frequency Bands  
NTNV\_802.11g\_SISO\_2437MHz\_ANT2

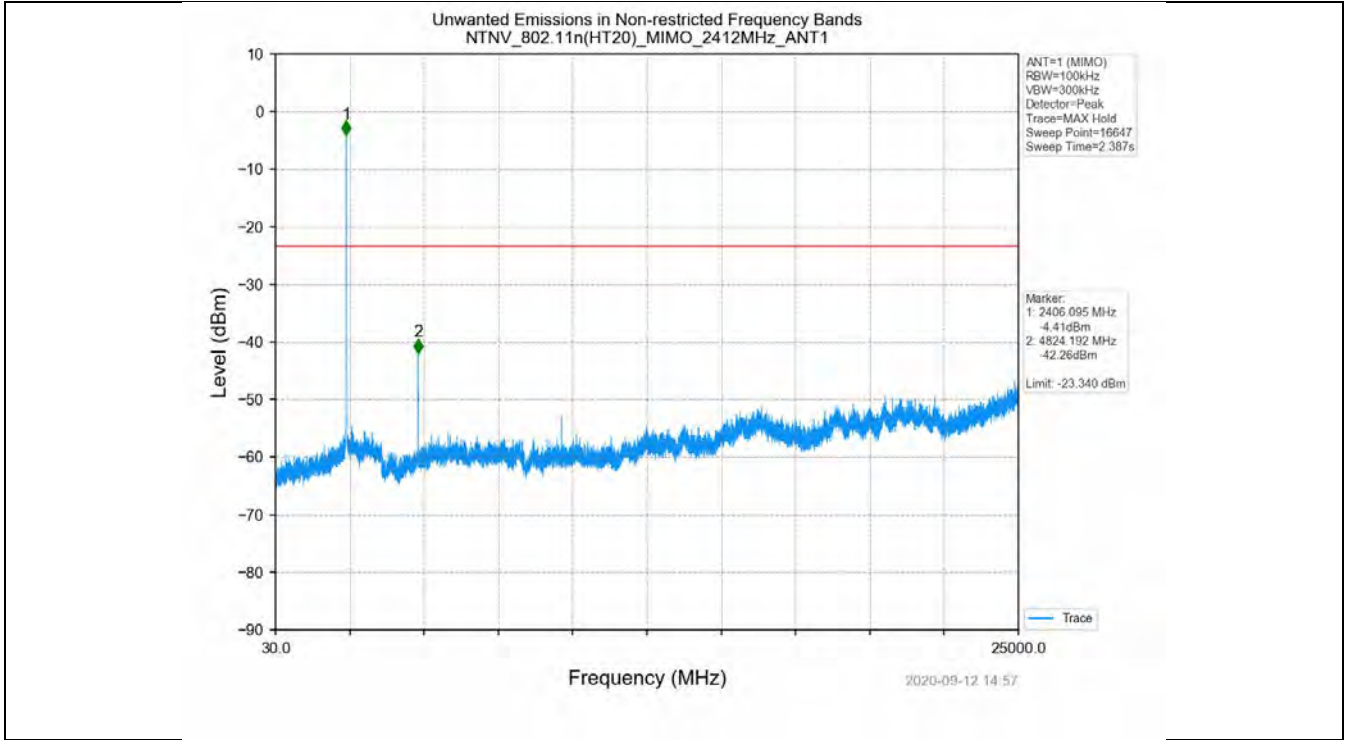
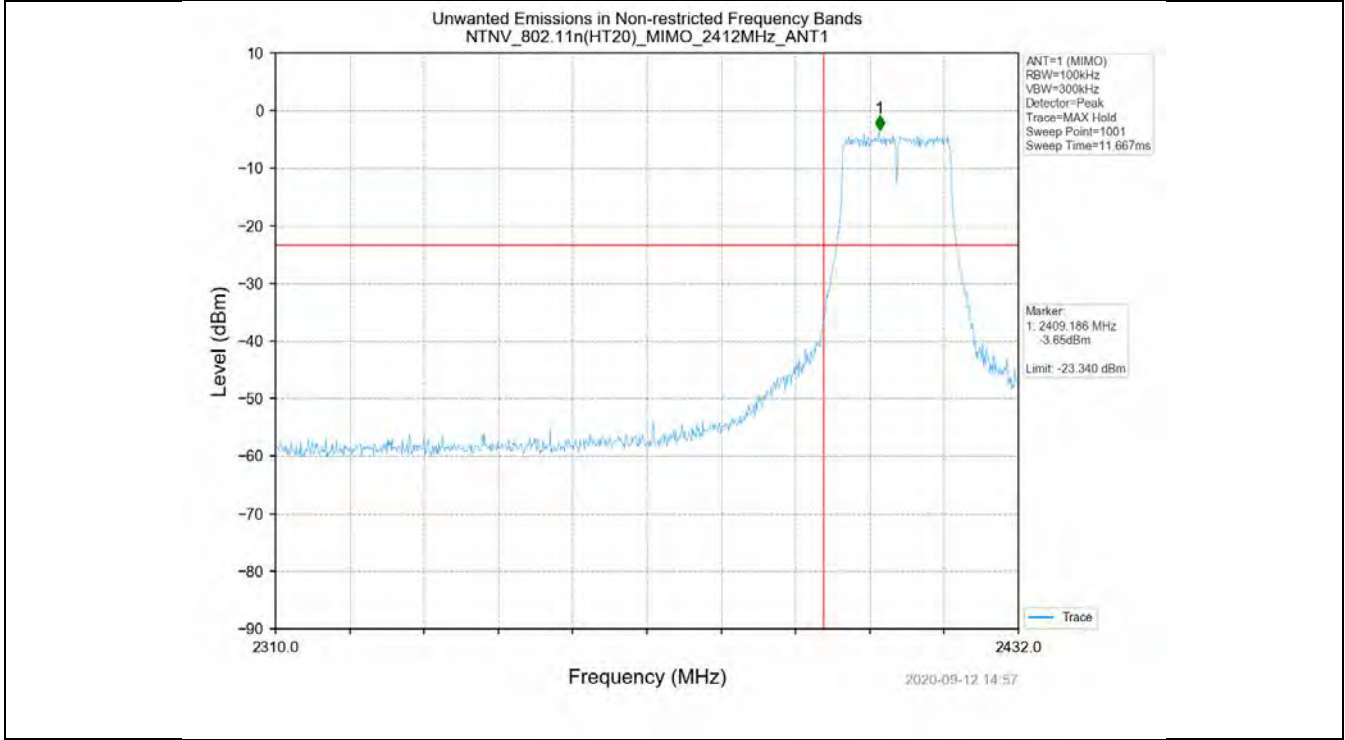


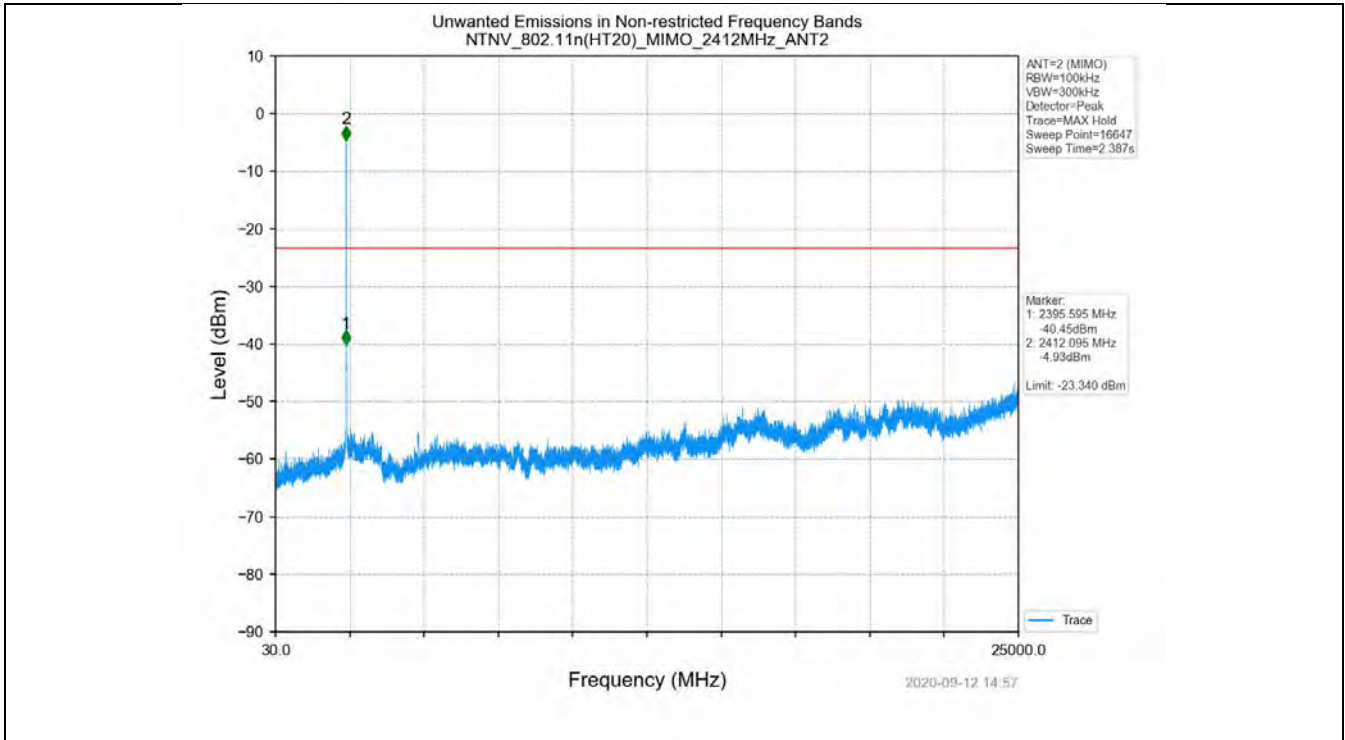
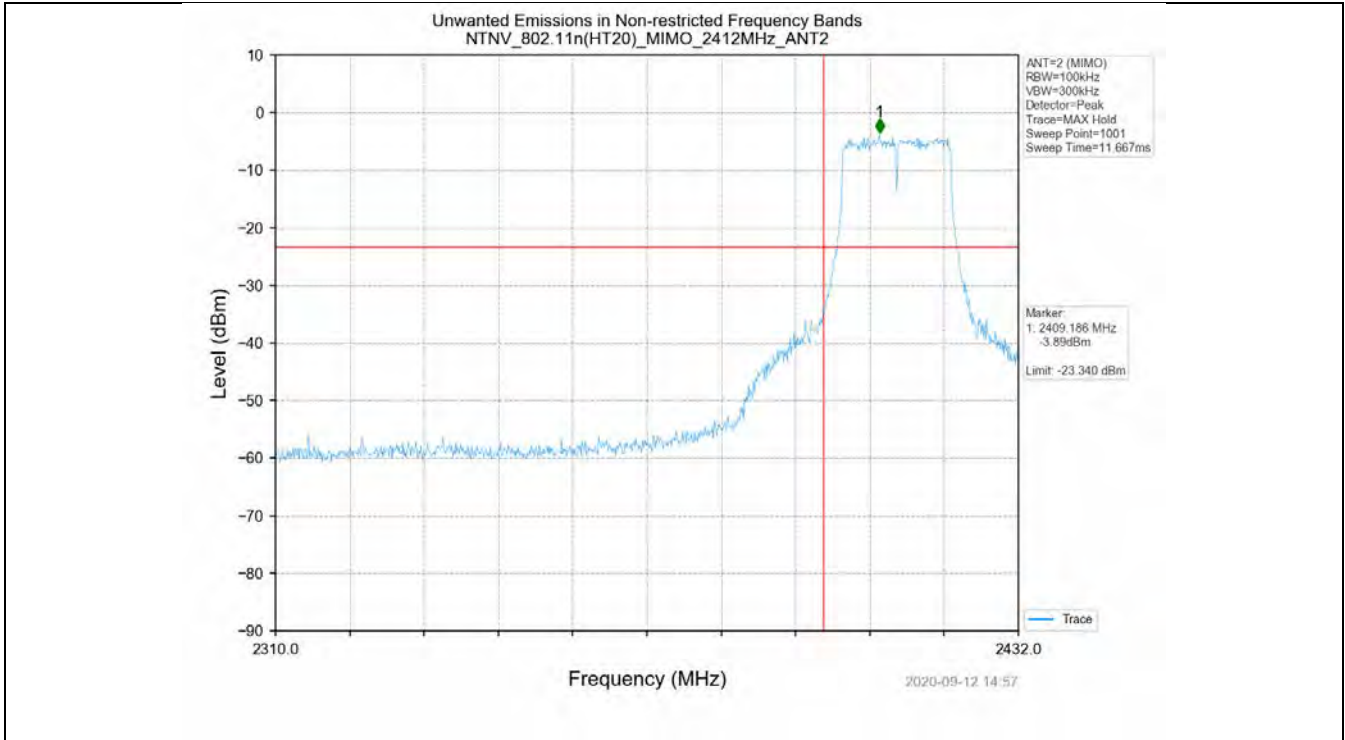


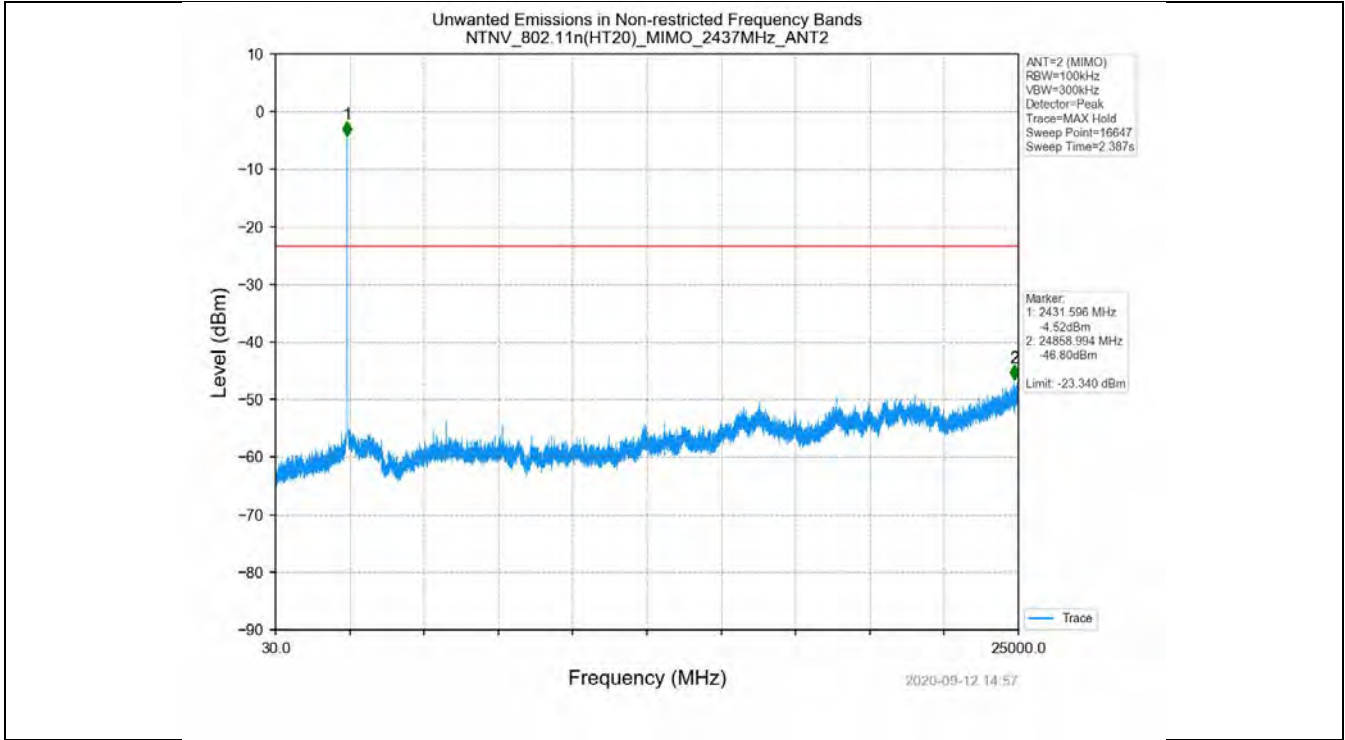
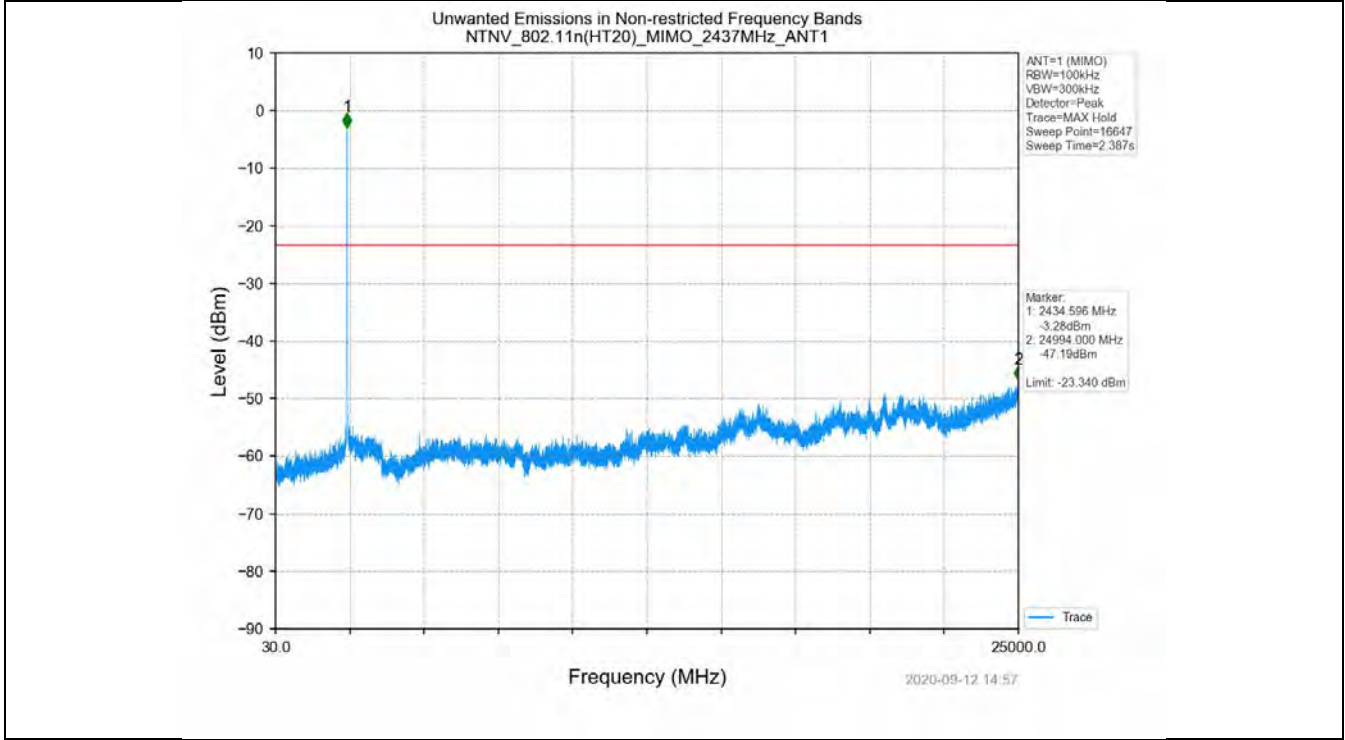


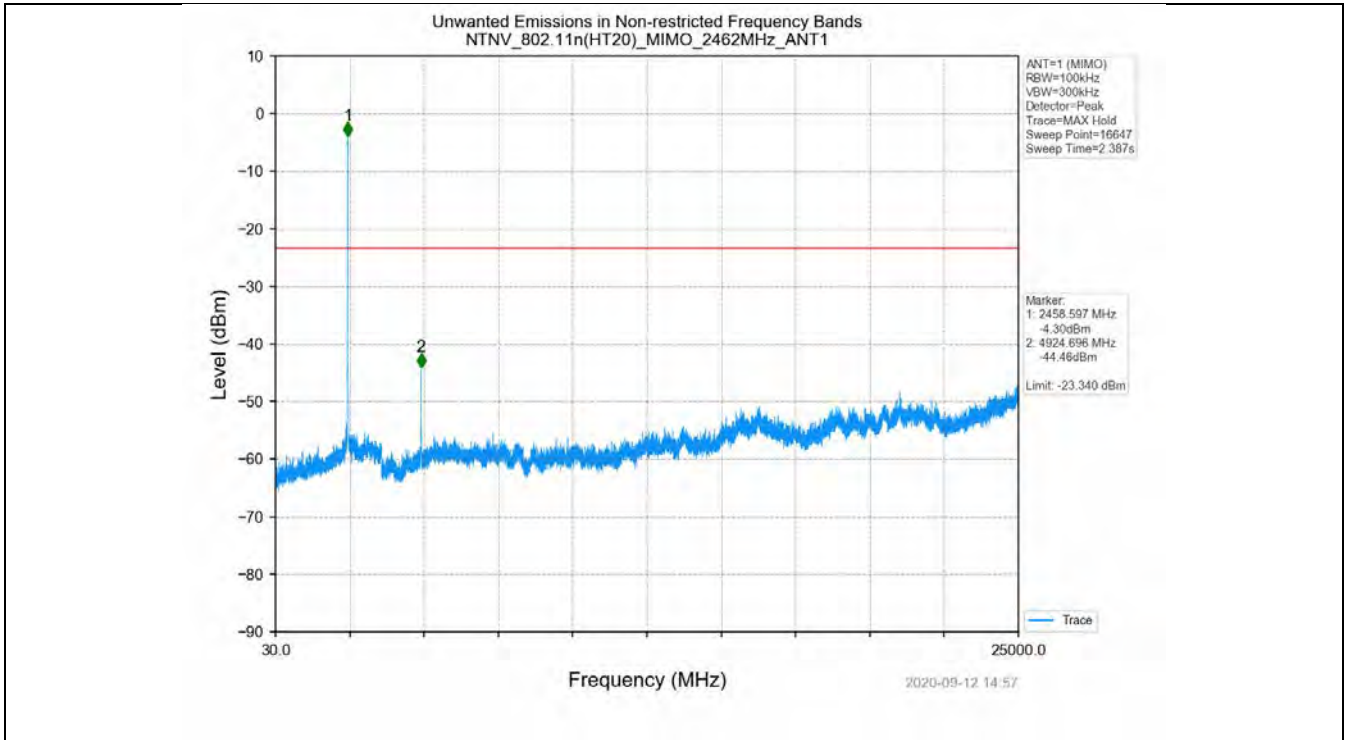
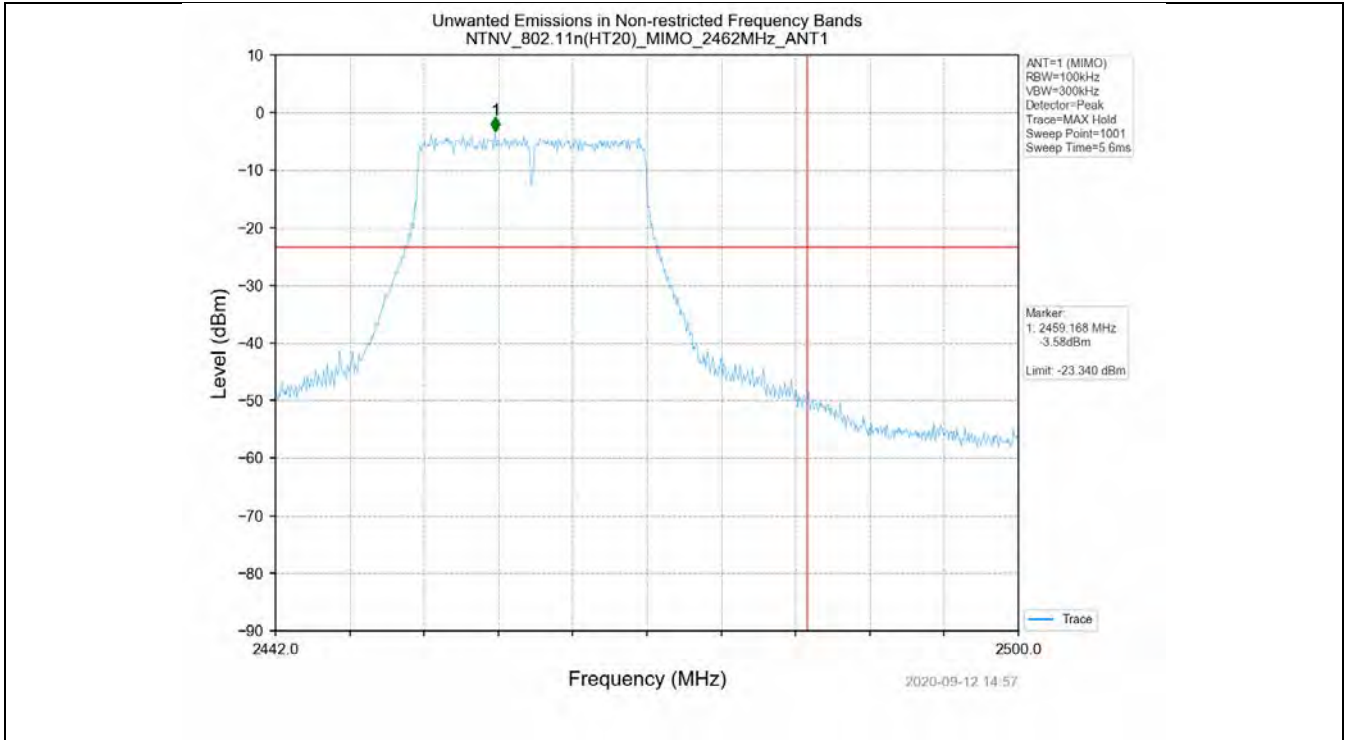


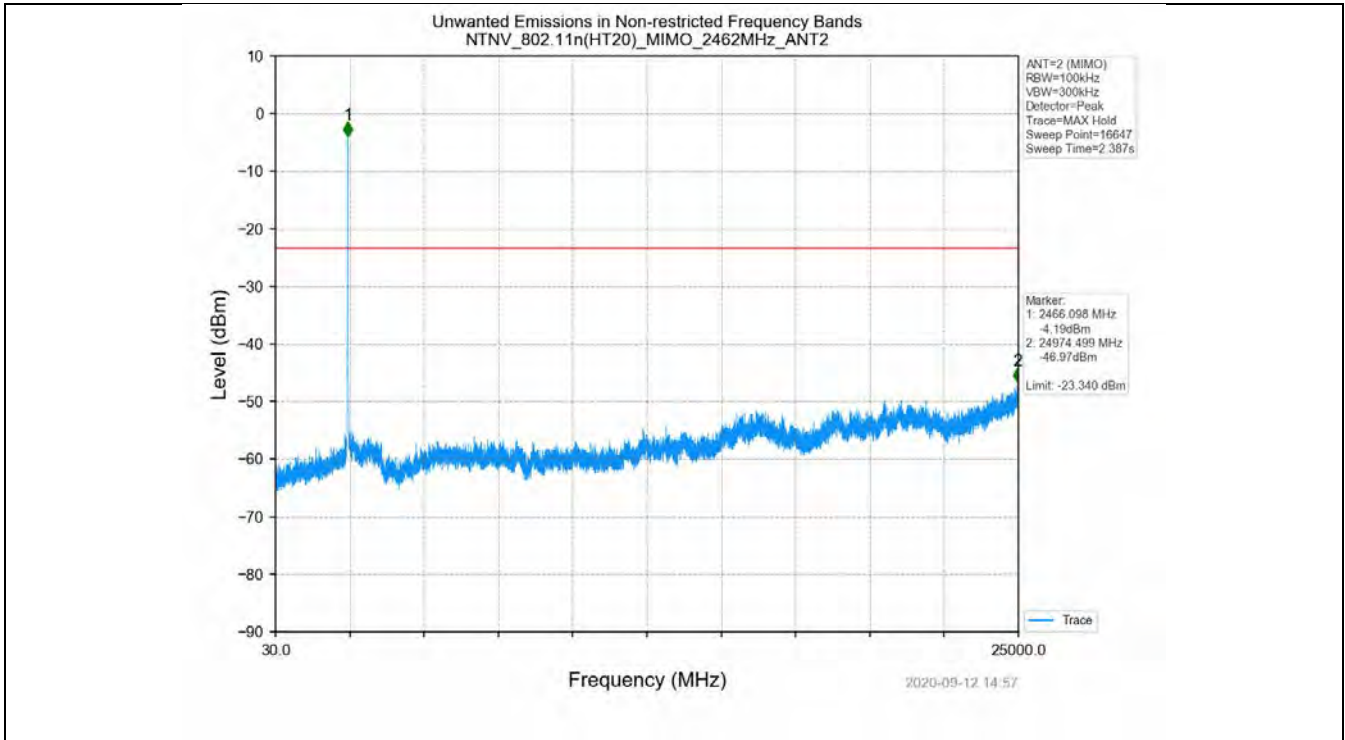
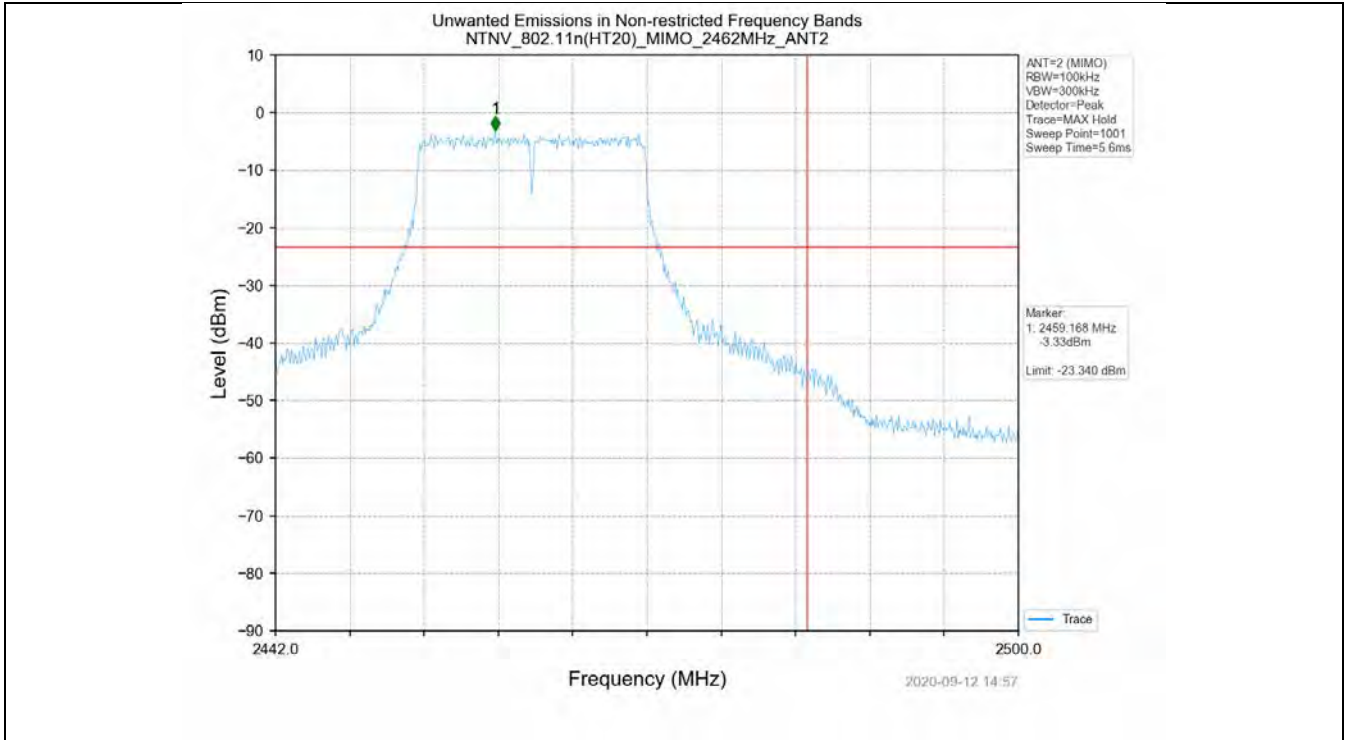


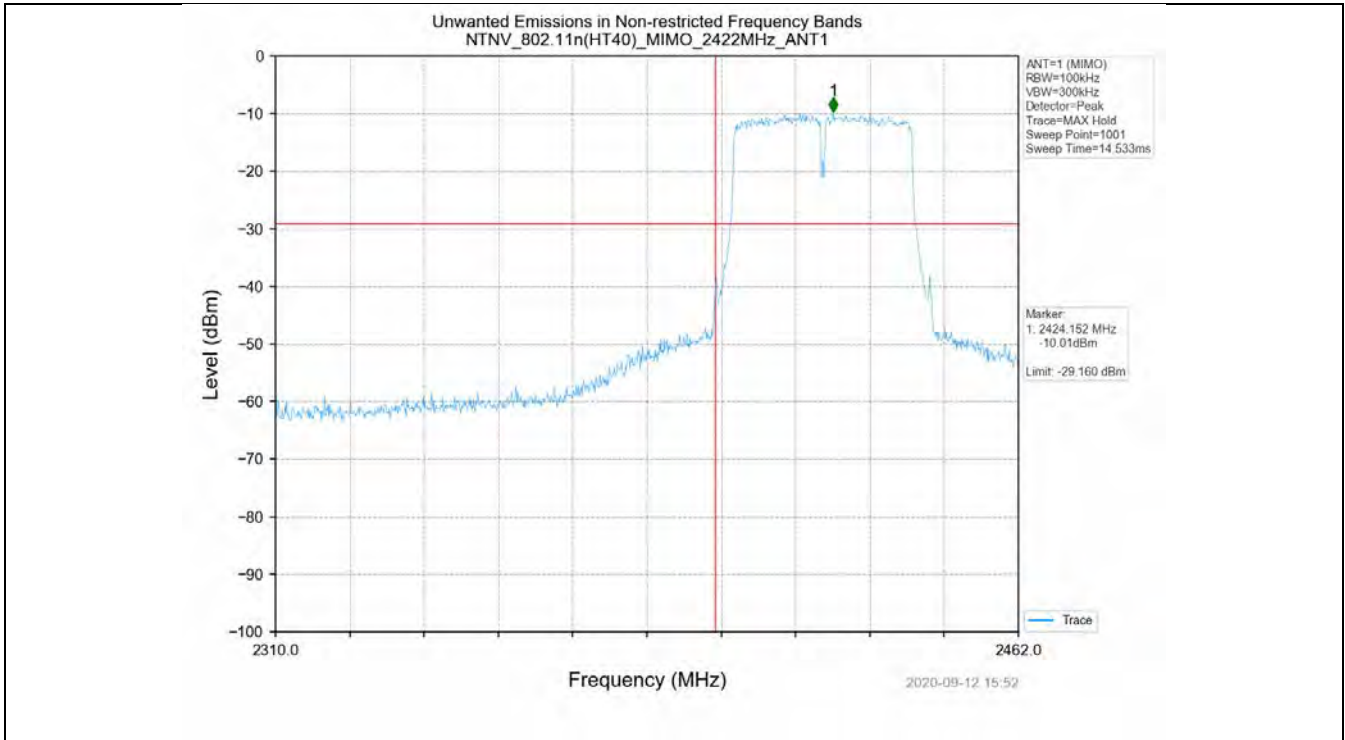
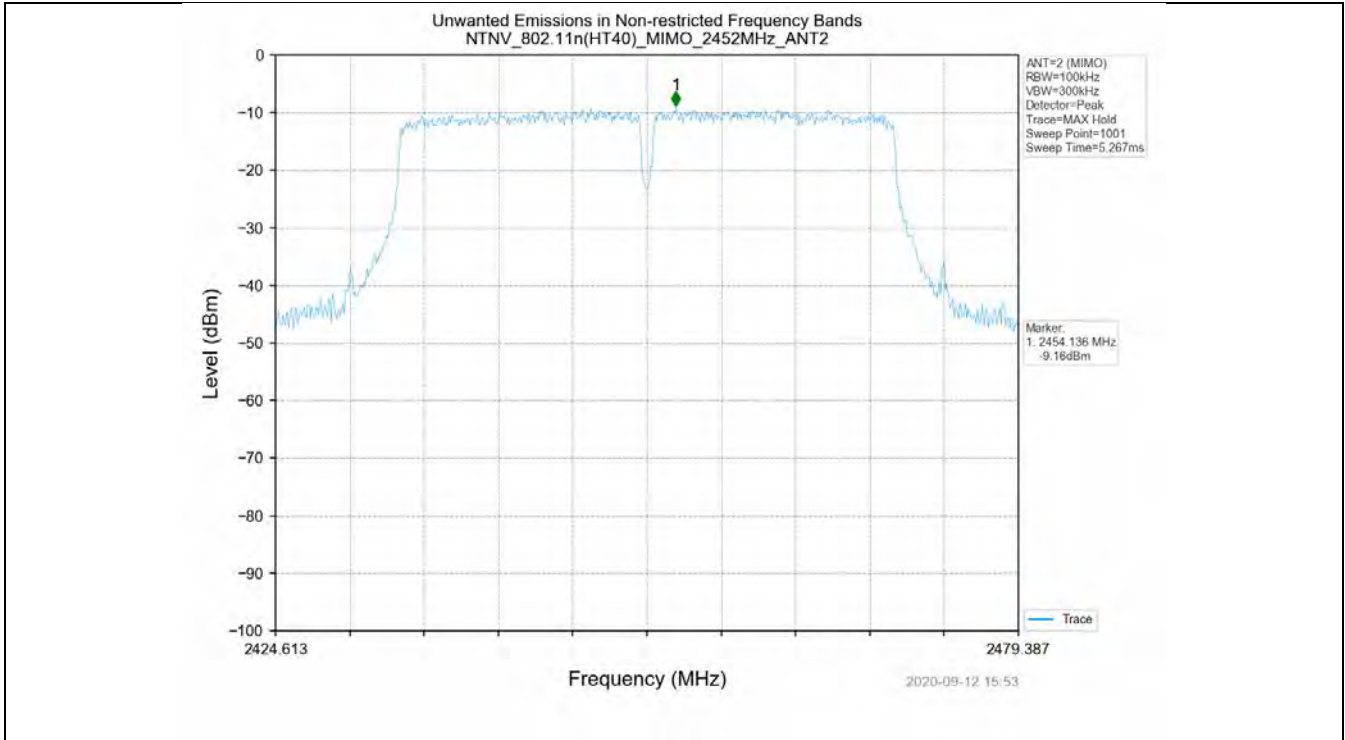


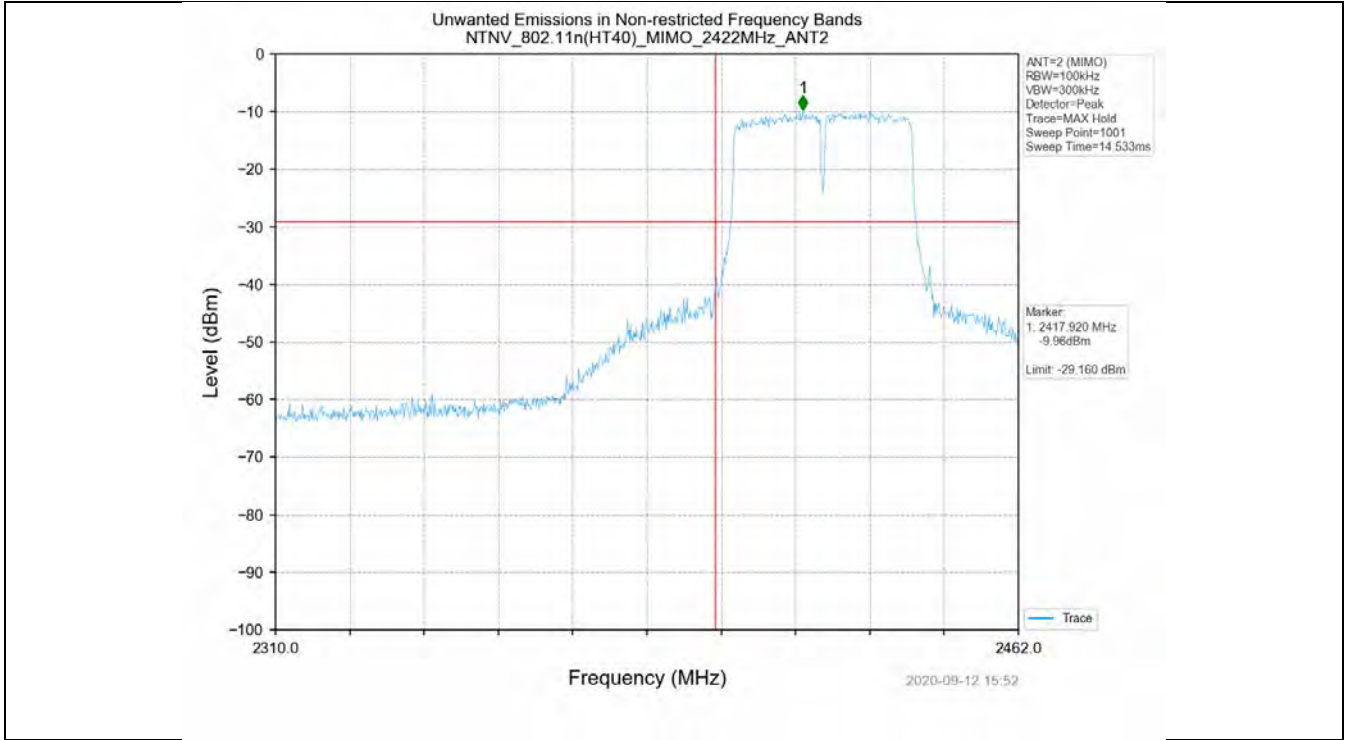
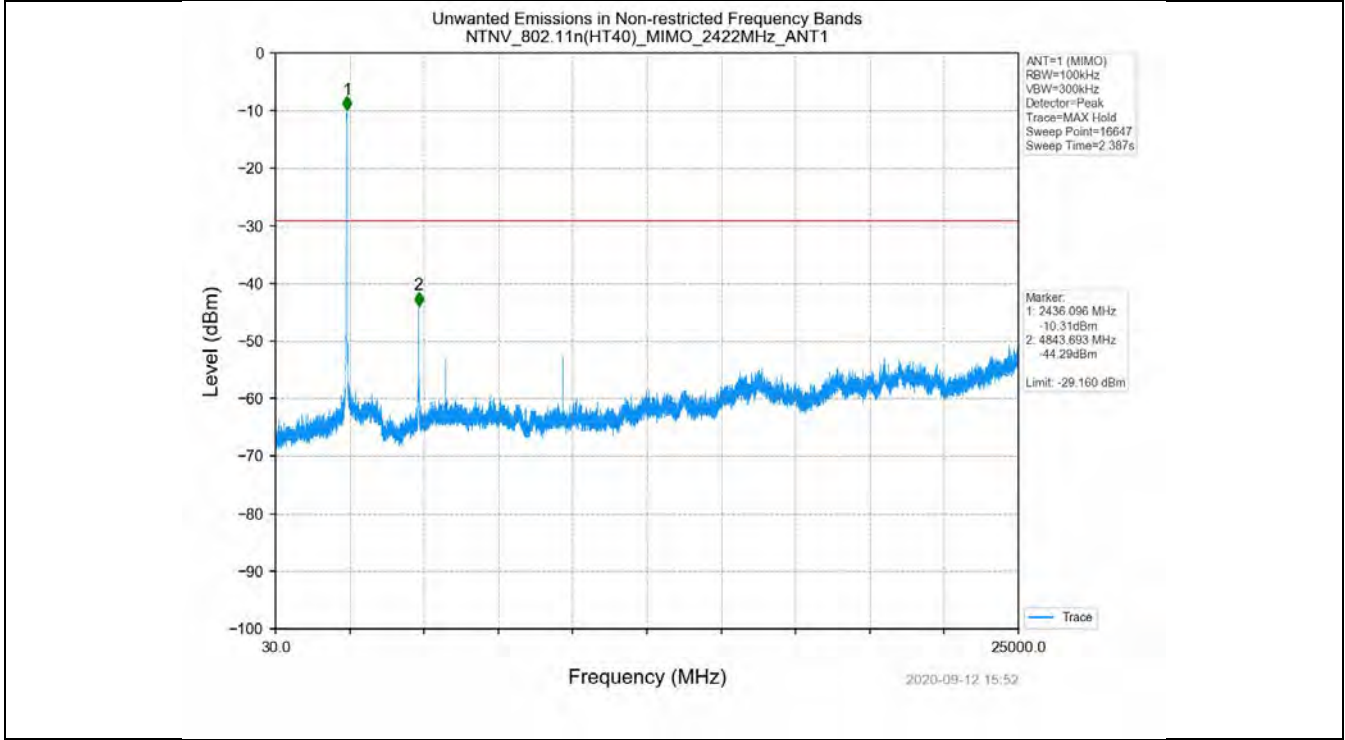


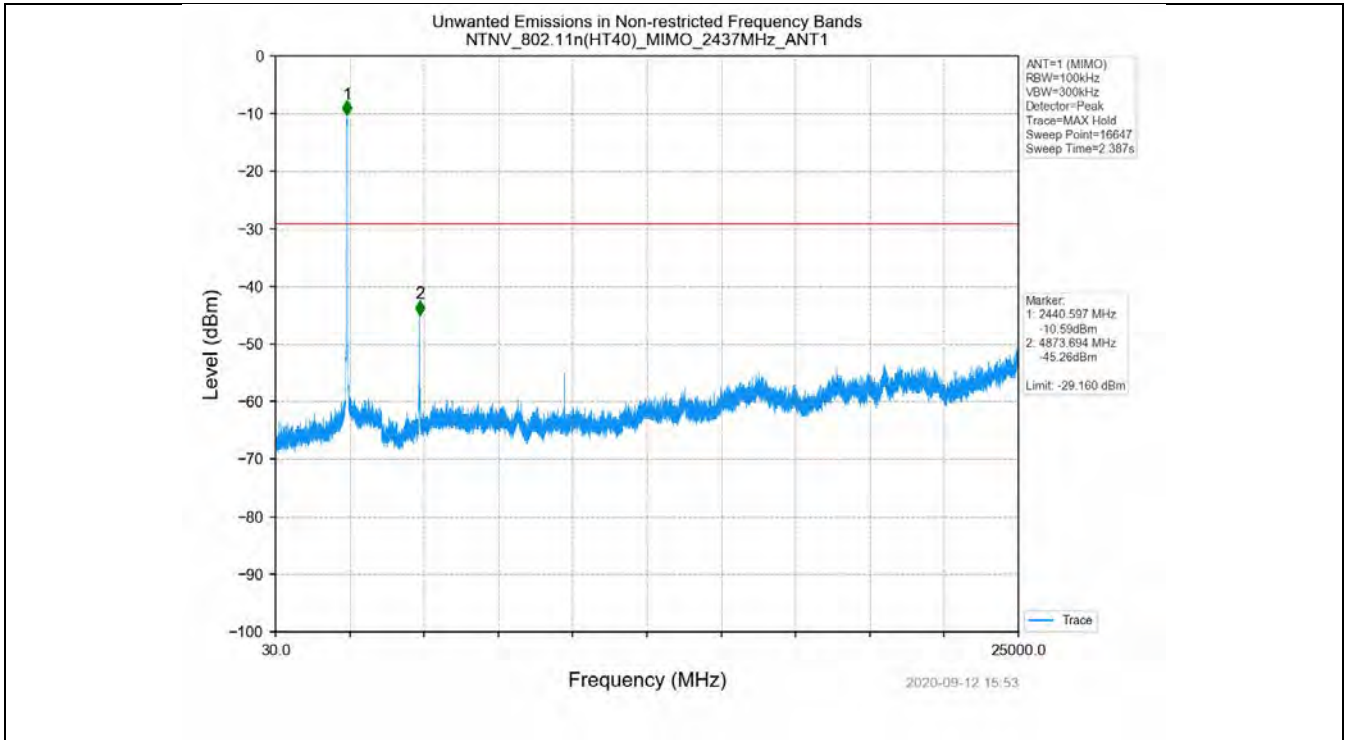
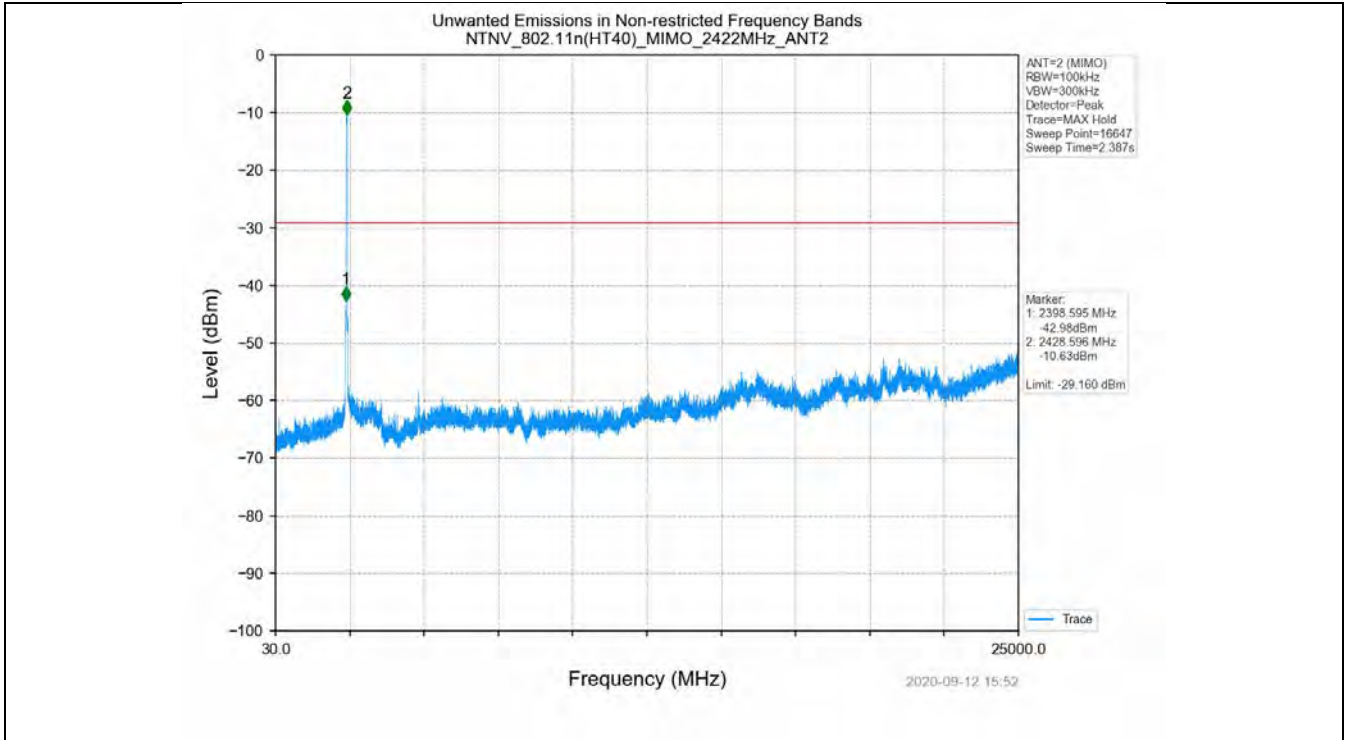




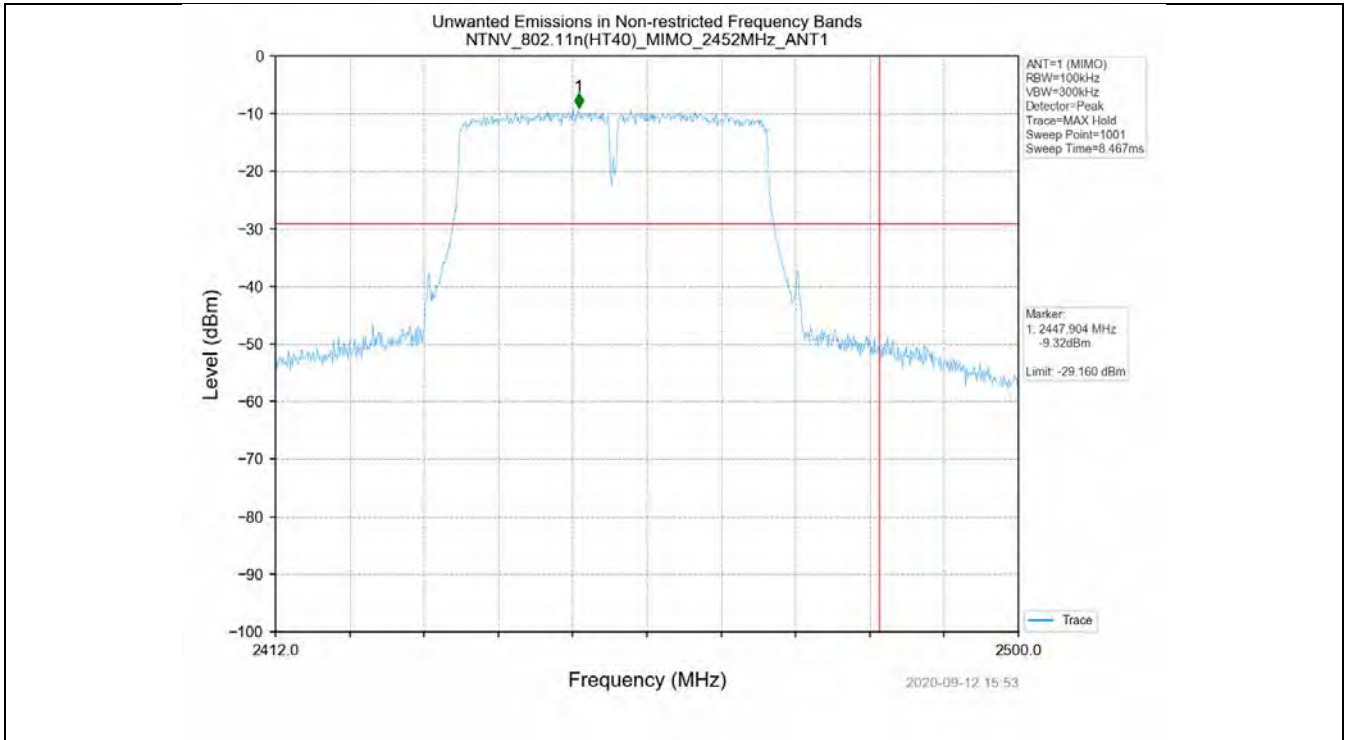
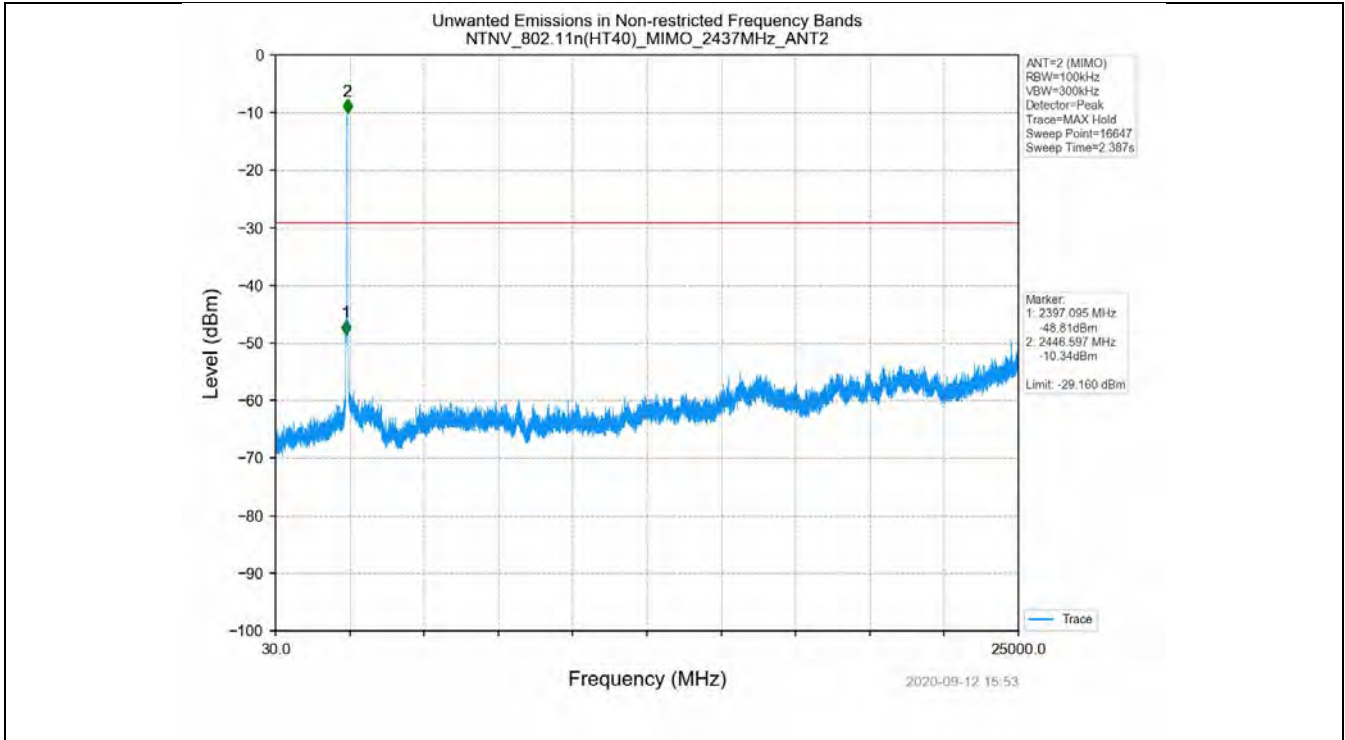


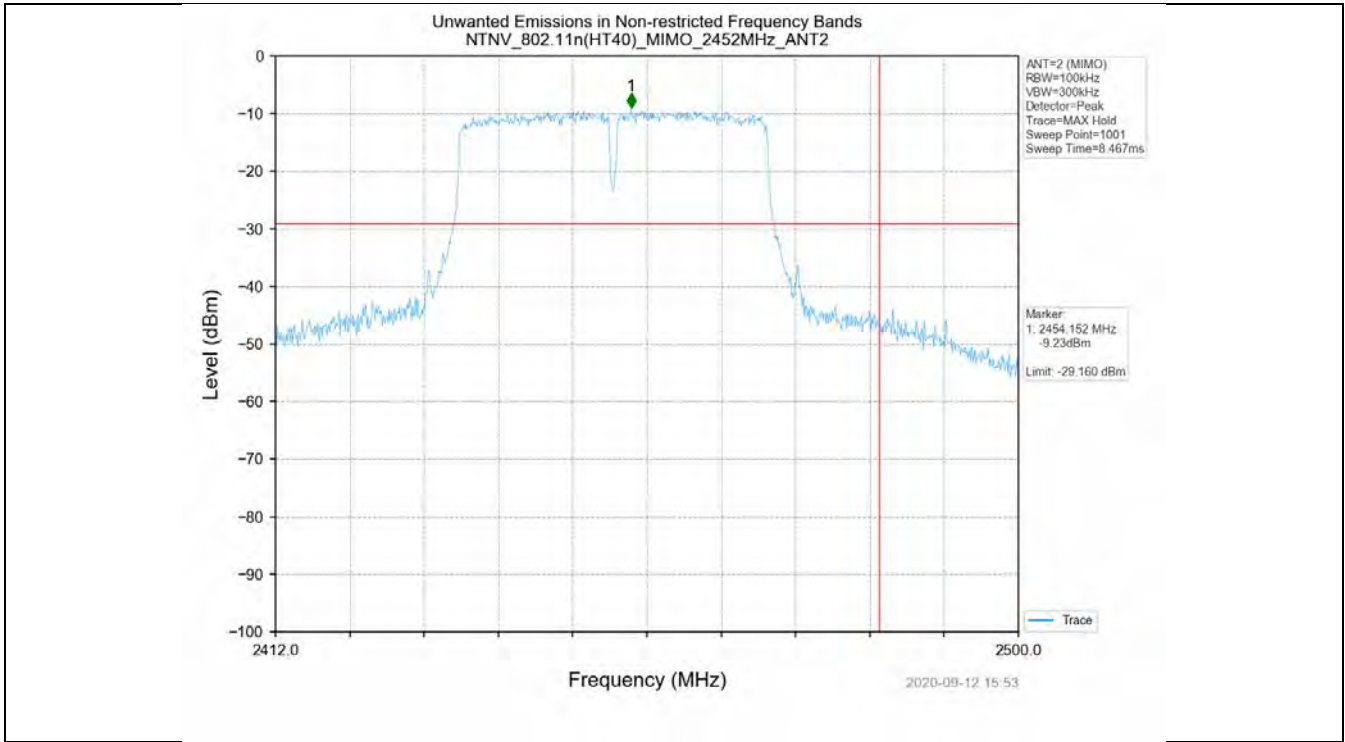
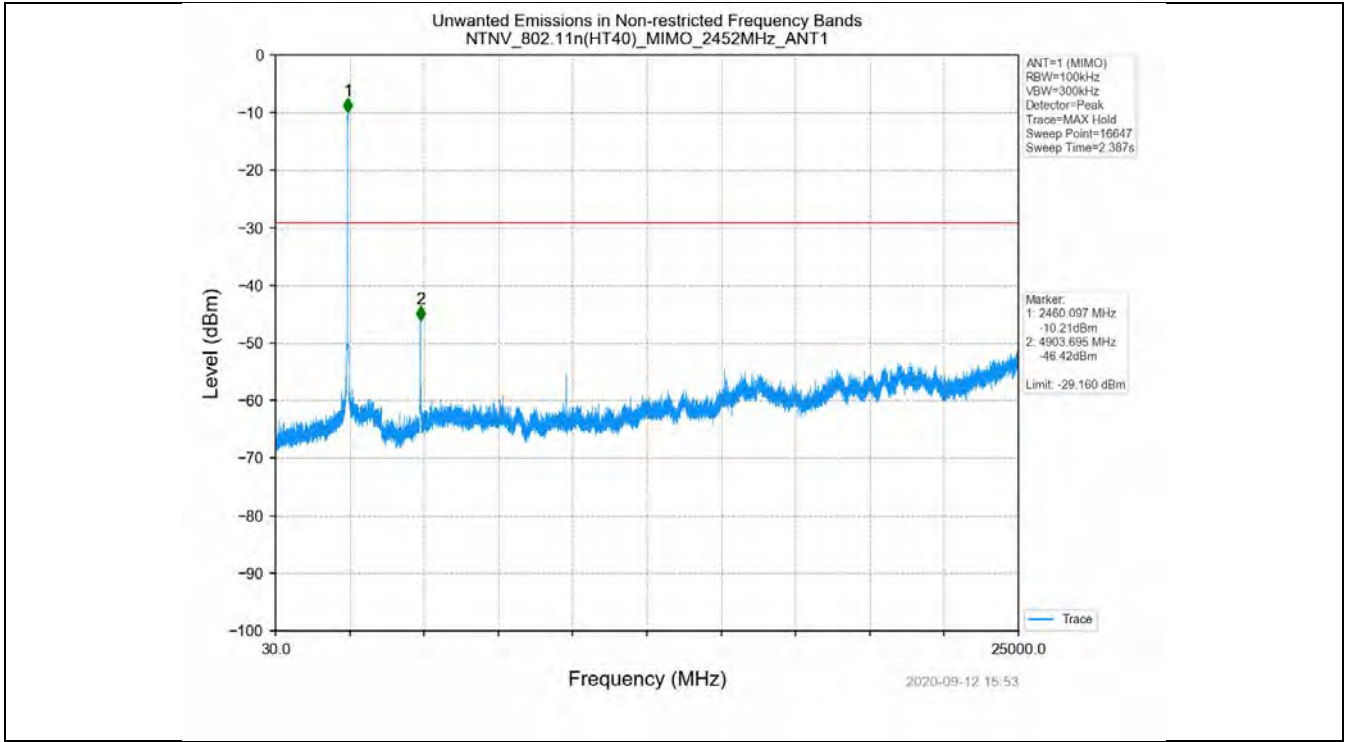




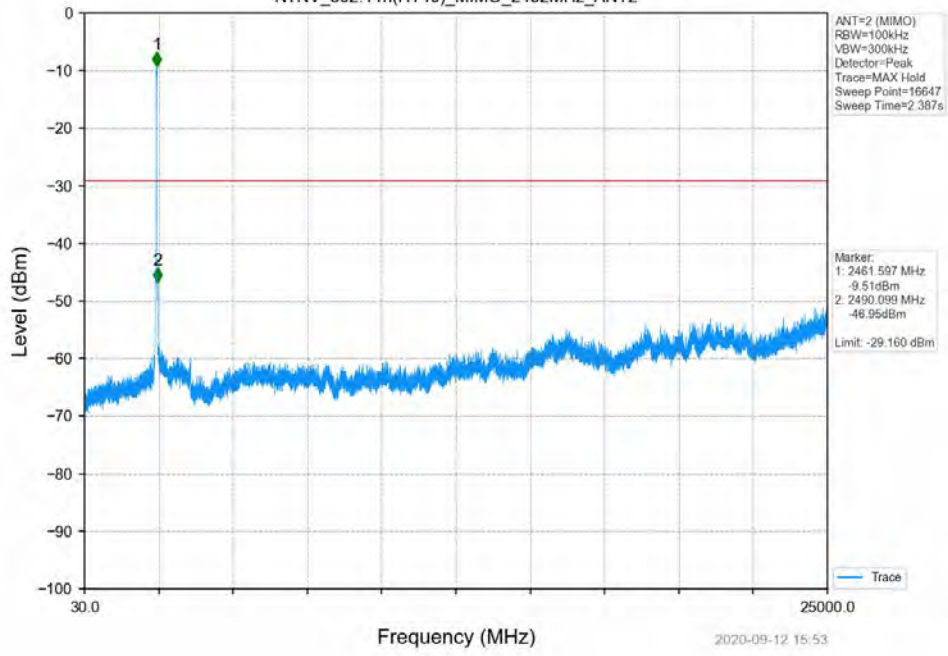








Unwanted Emissions in Non-restricted Frequency Bands  
NTNV\_802.11n(HT40)\_MIMO\_2452MHz\_ANT2



2020-09-12 15:53