



Appendix C for SHEM200300180803

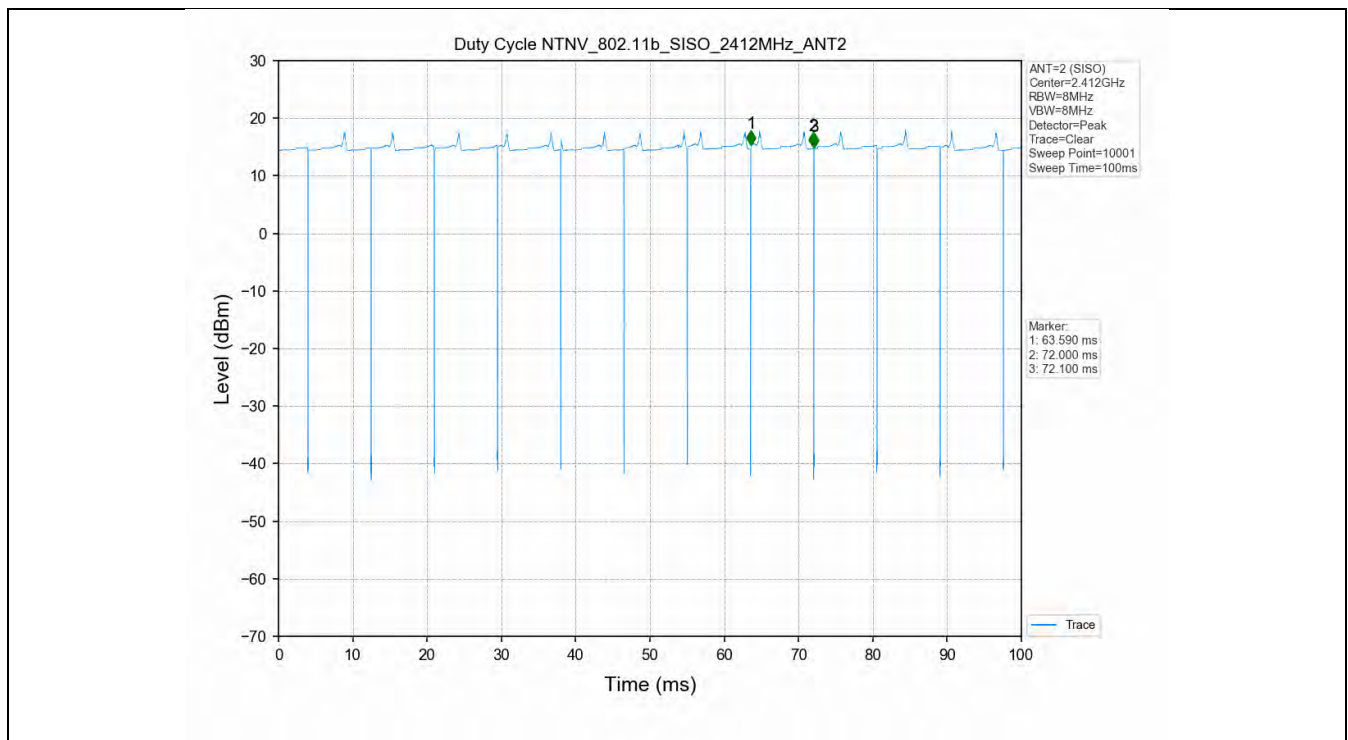
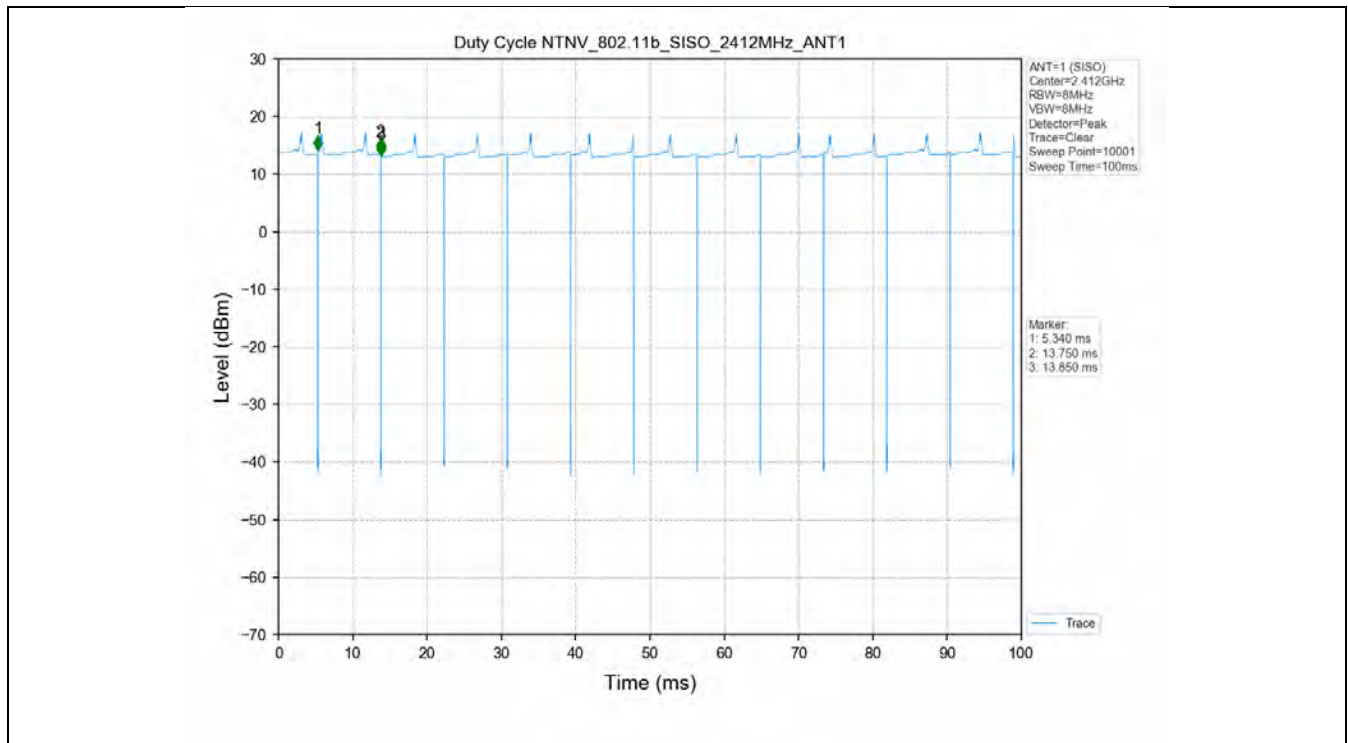
1. Duty Cycle

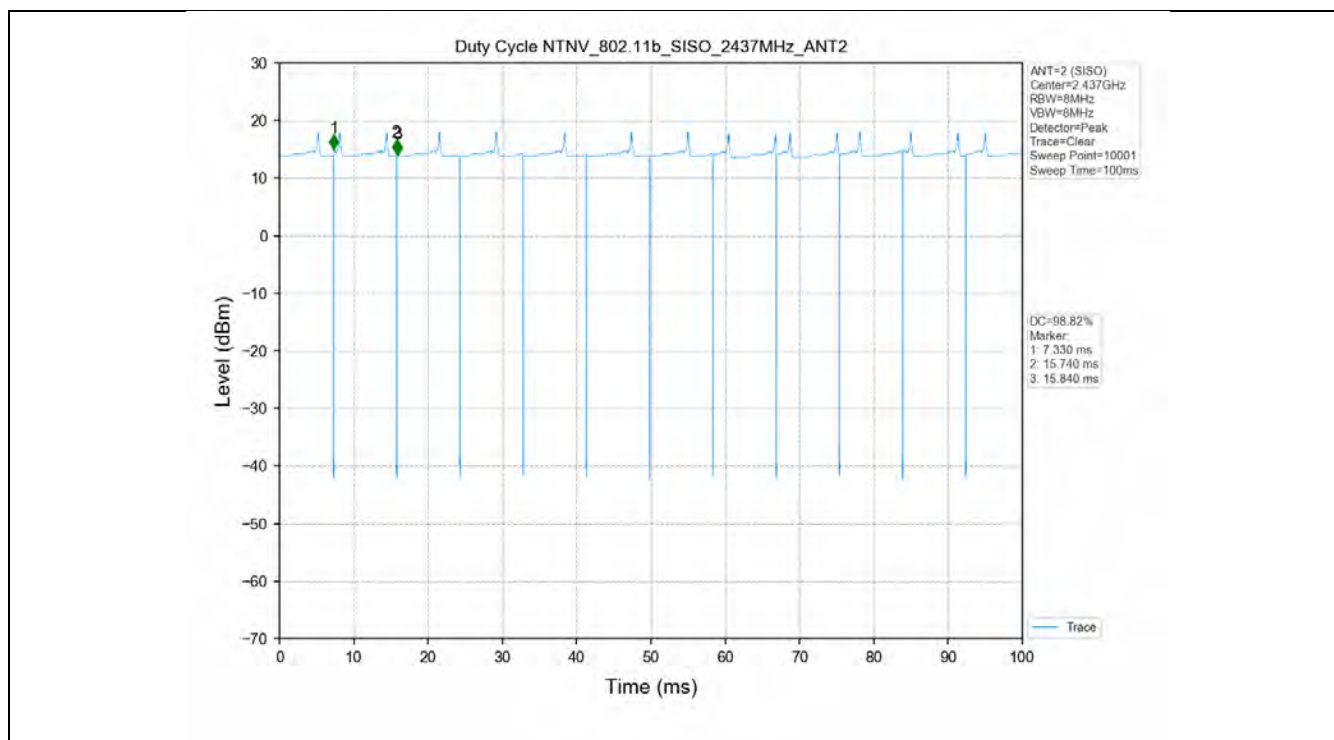
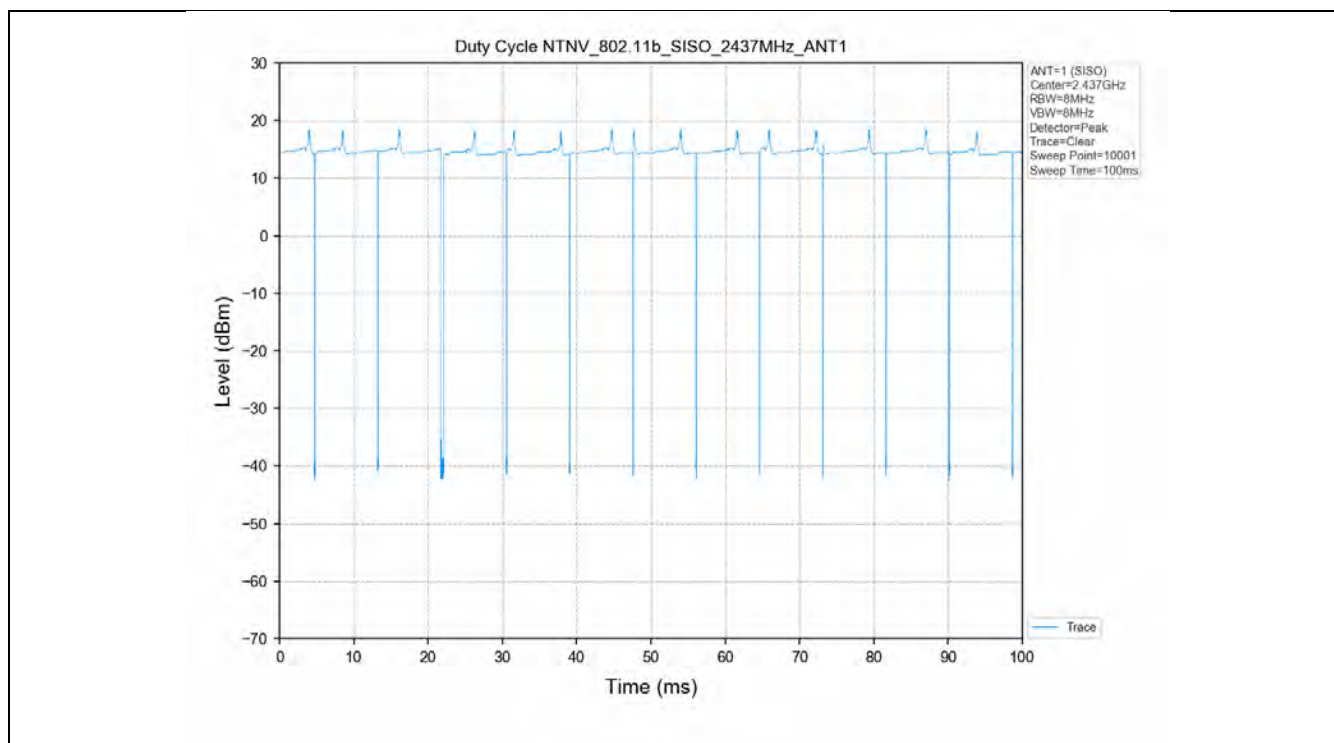
1.1 Test Result

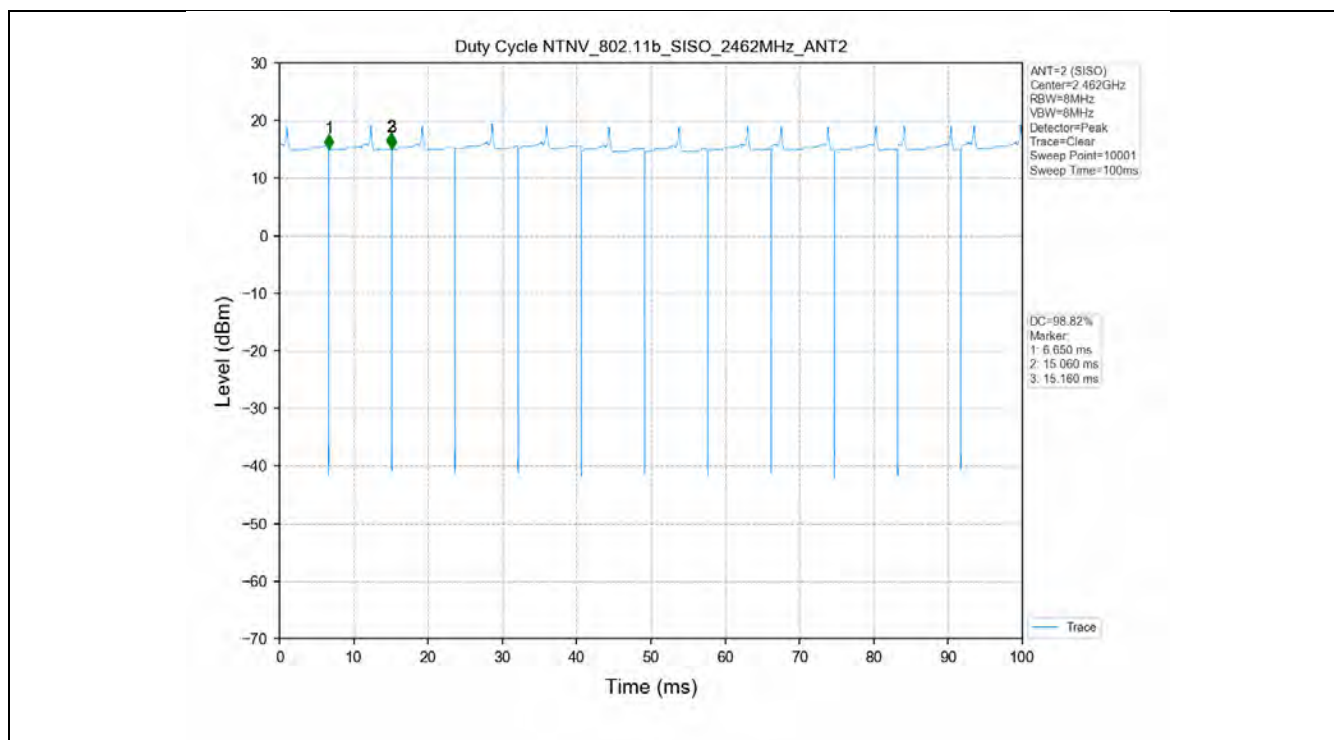
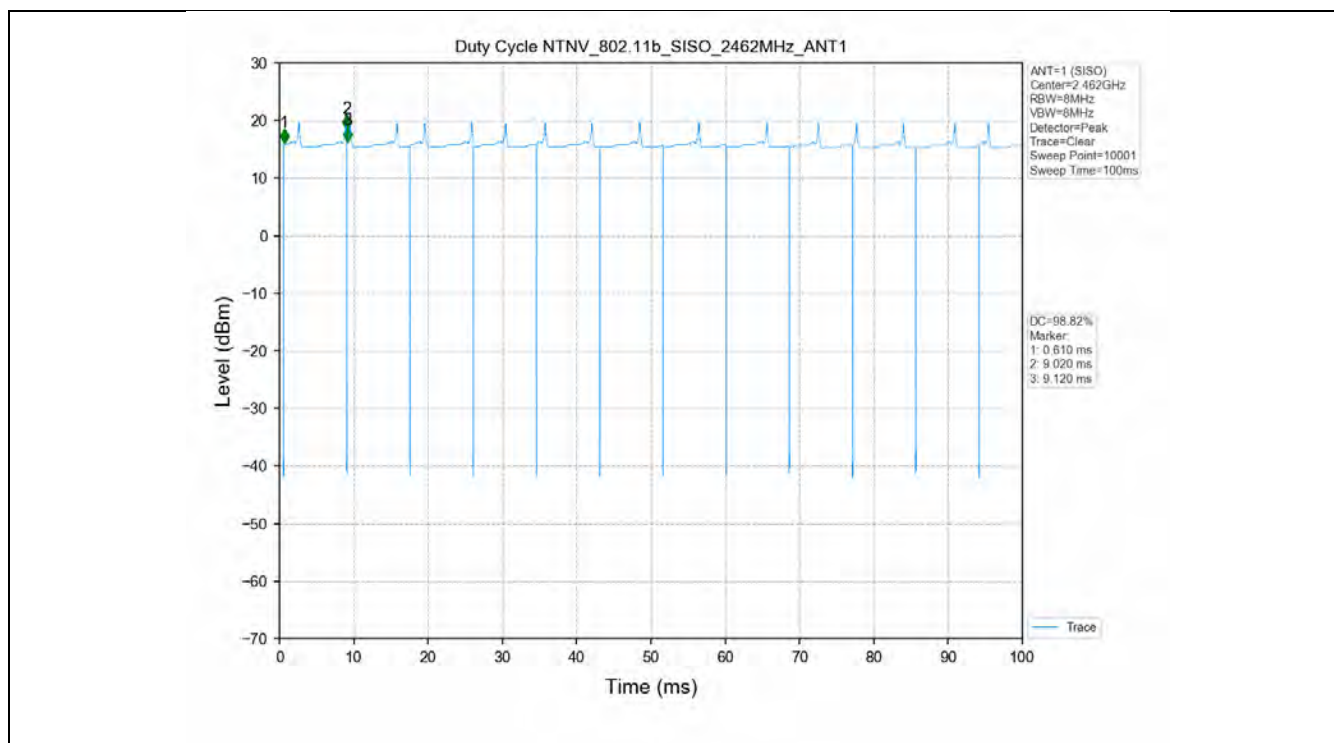
Test Mode	Channel Frequency(MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	2412	SISO	1	8.410	8.510	98.82	0.05
			2	8.410	8.510	98.82	0.05
	2437	SISO	1	8.410	8.510	98.82	0.00
			2	8.410	8.510	98.82	0.05
	2462	SISO	1	8.410	8.510	98.82	0.05
			2	8.410	8.510	98.82	0.05
802.11g	2412	SISO	1	1.365	1.463	93.30	0.30
			2	1.366	1.463	93.37	0.30
	2437	SISO	1	1.366	1.463	93.37	0.30
			2	1.364	1.462	93.30	0.30
	2462	SISO	1	1.366	1.463	93.37	0.30
			2	1.364	1.462	93.30	0.30
802.11n(HT20)	2412	MIMO	1	1.308	1.409	92.83	0.32
			2	1.308	1.408	92.90	0.32
	2437	MIMO	1	1.308	1.408	92.90	0.32
			2	1.307	1.408	92.83	0.32
	2462	MIMO	1	1.308	1.408	92.90	0.32
			2	1.307	1.408	92.83	0.32

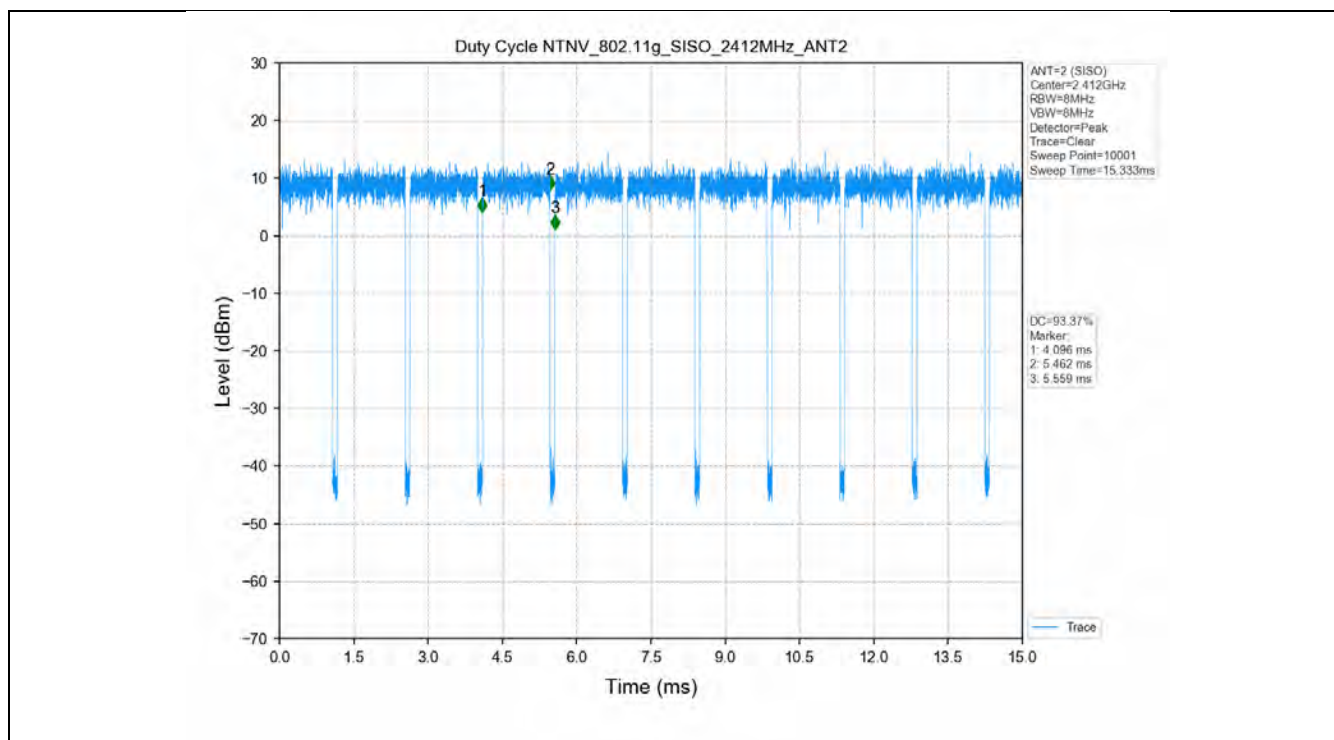
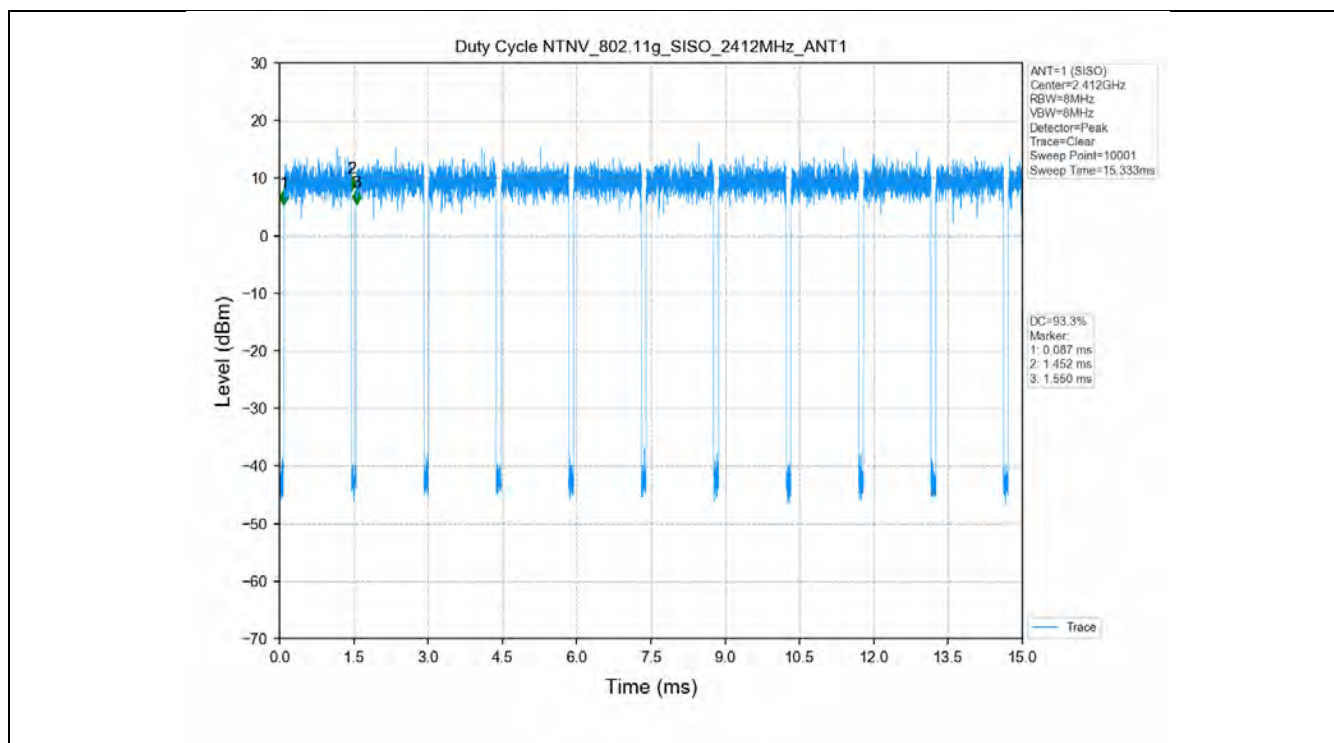


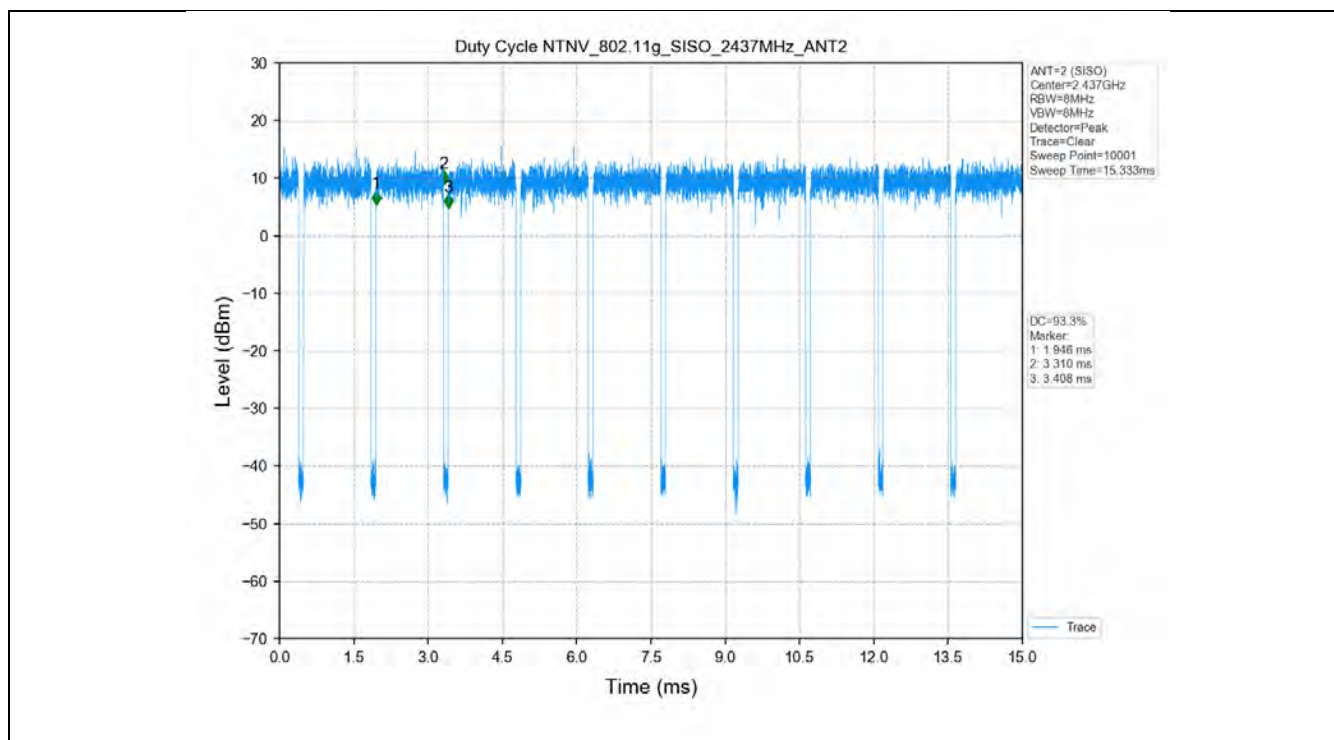
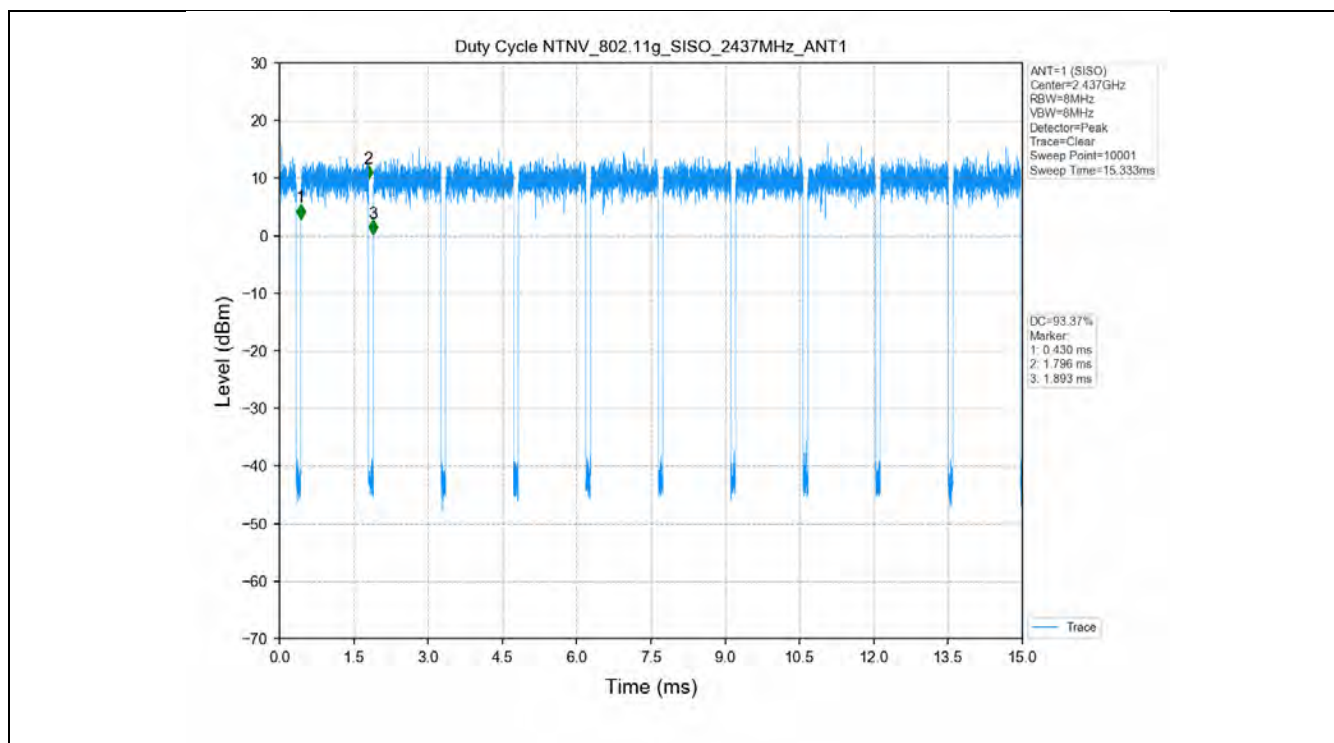
1.2 Test Graph

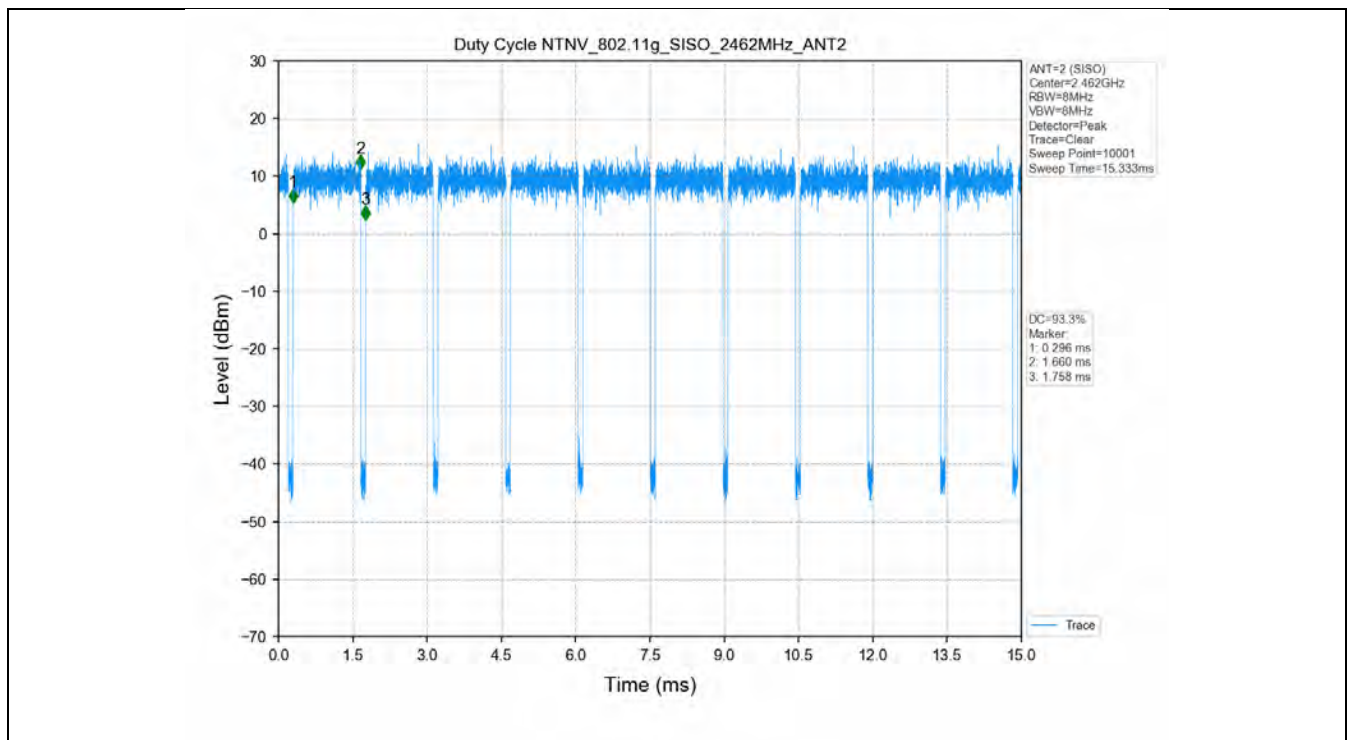
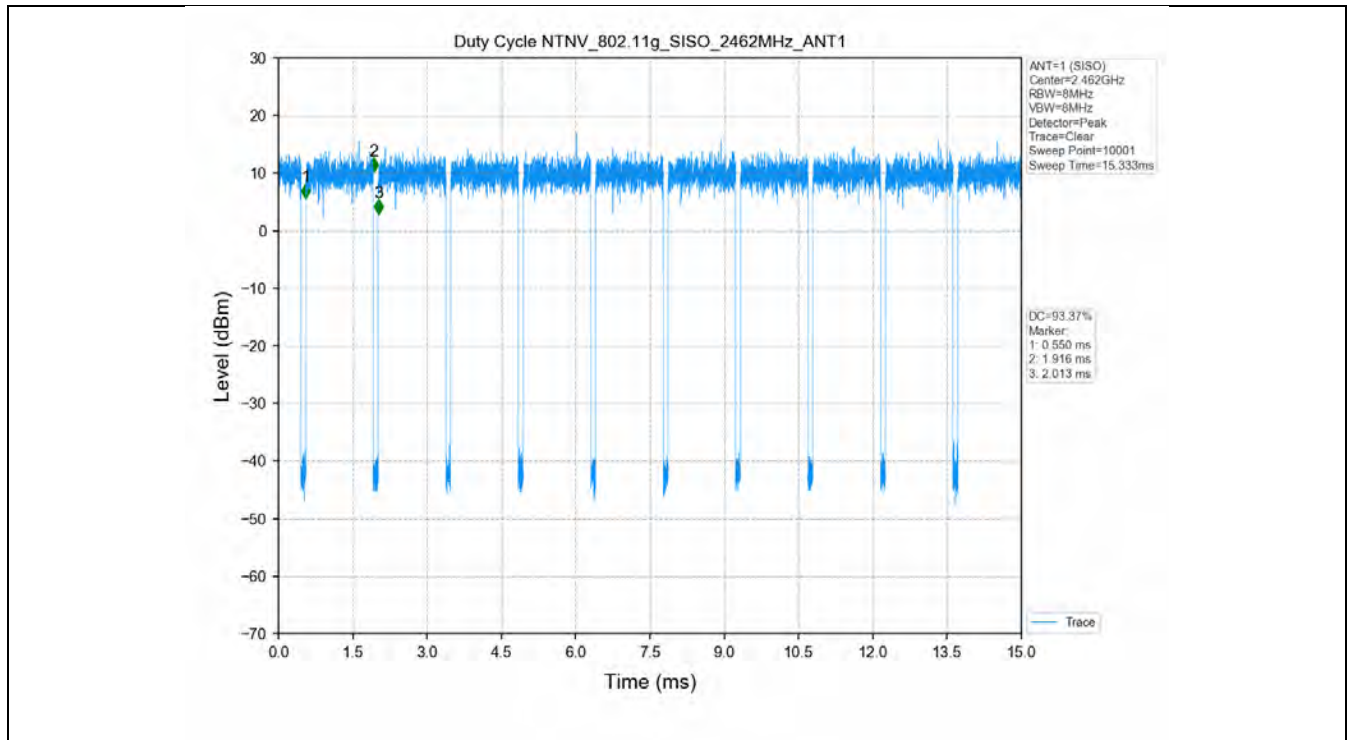


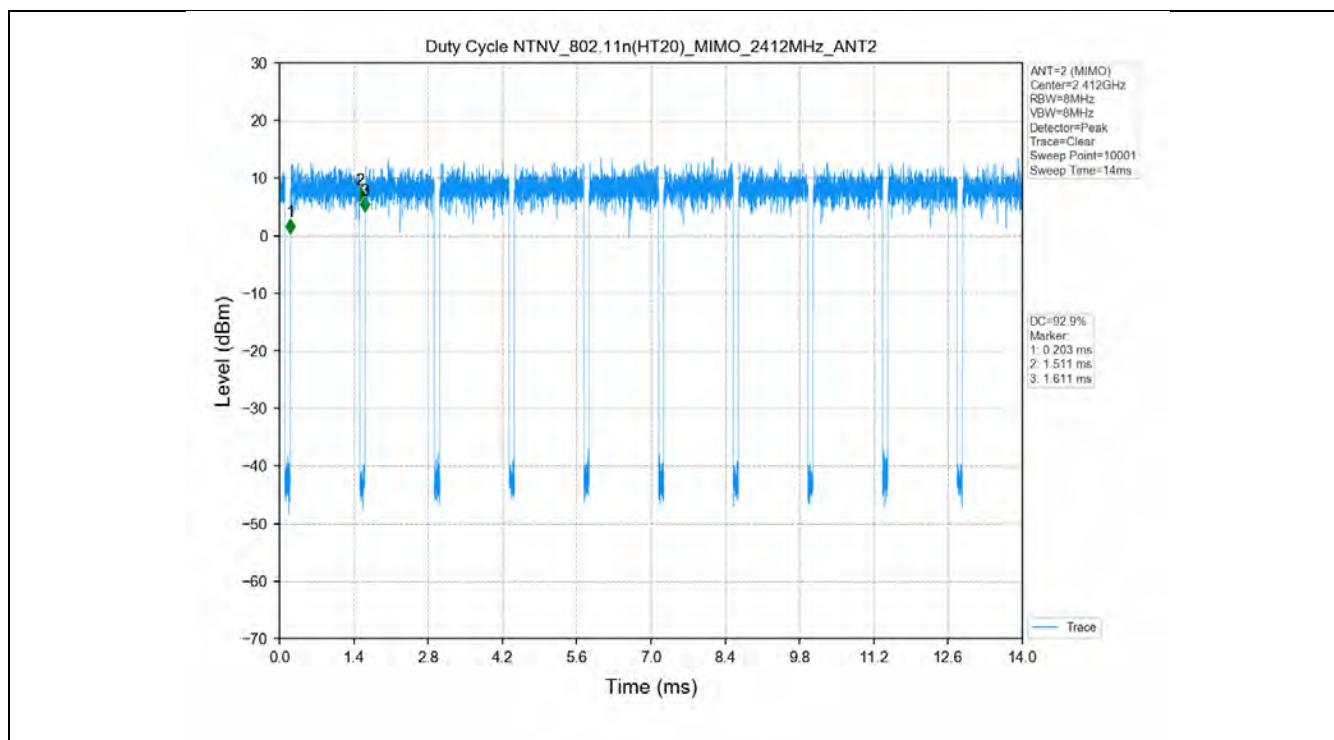
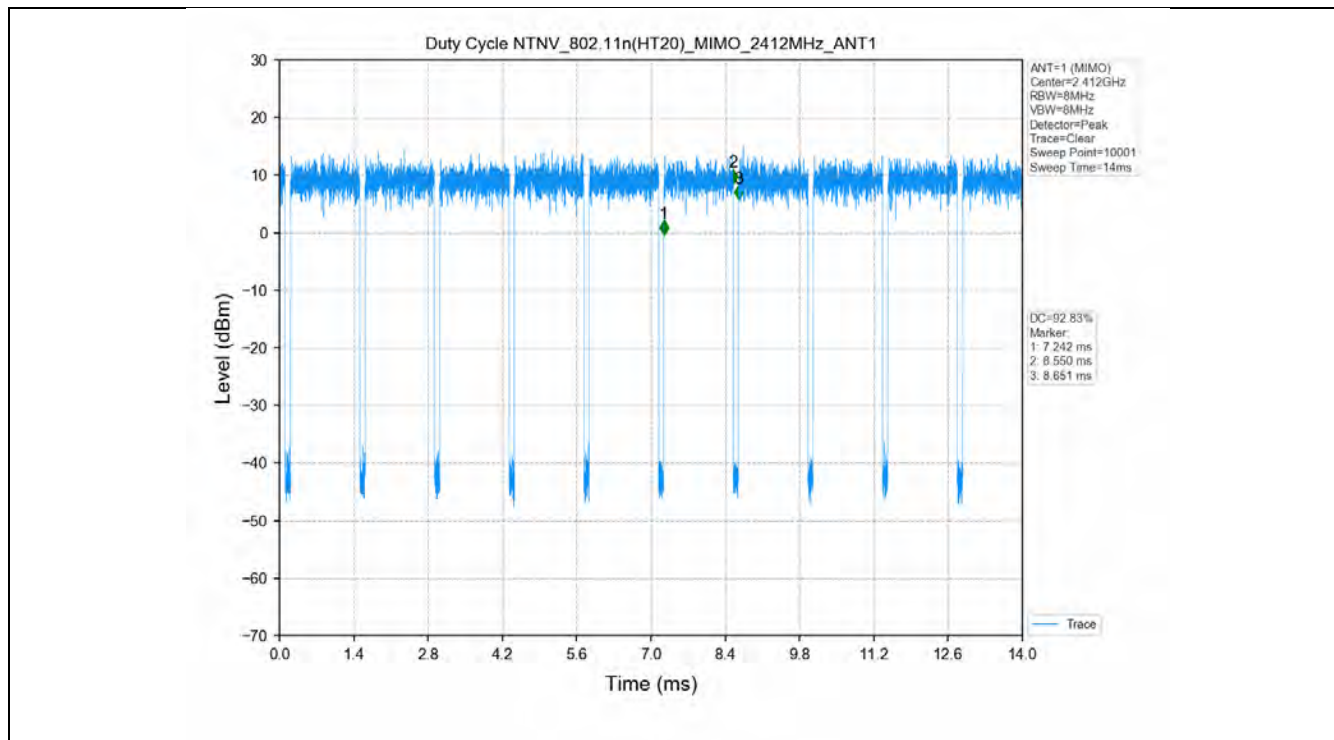


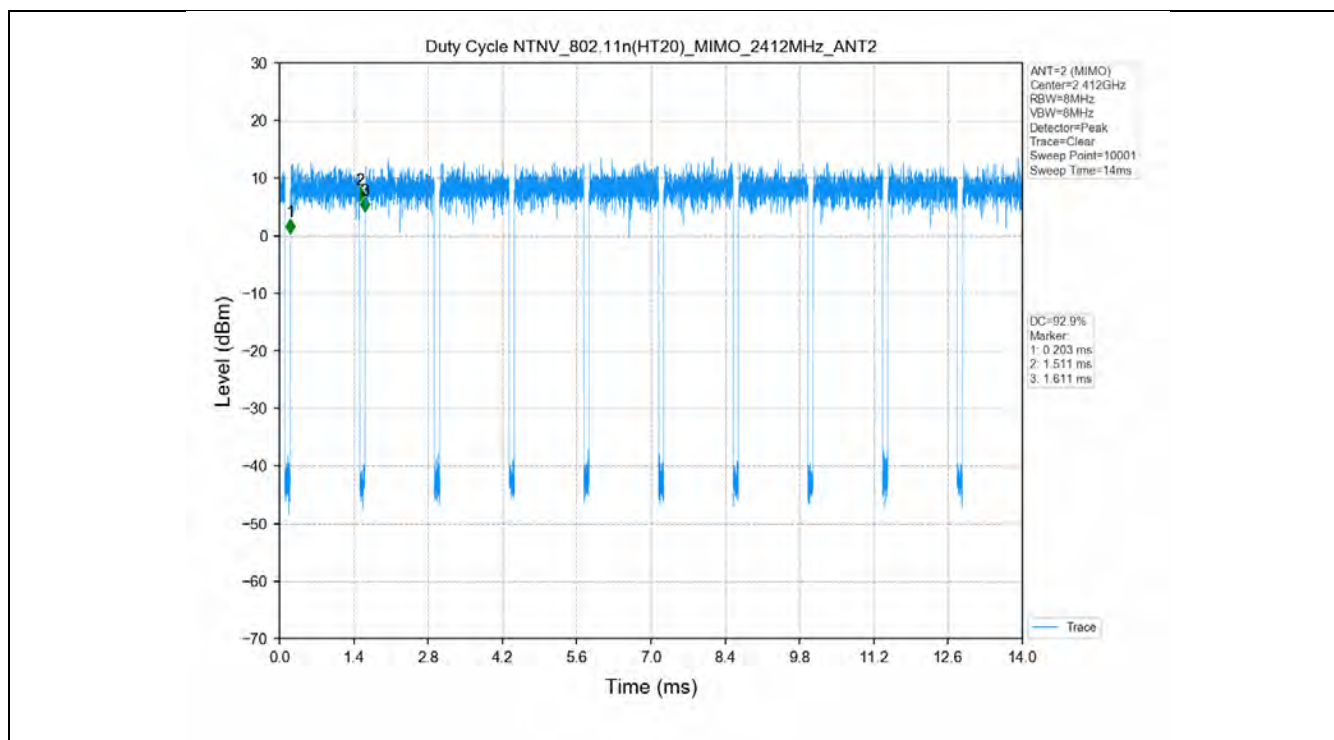
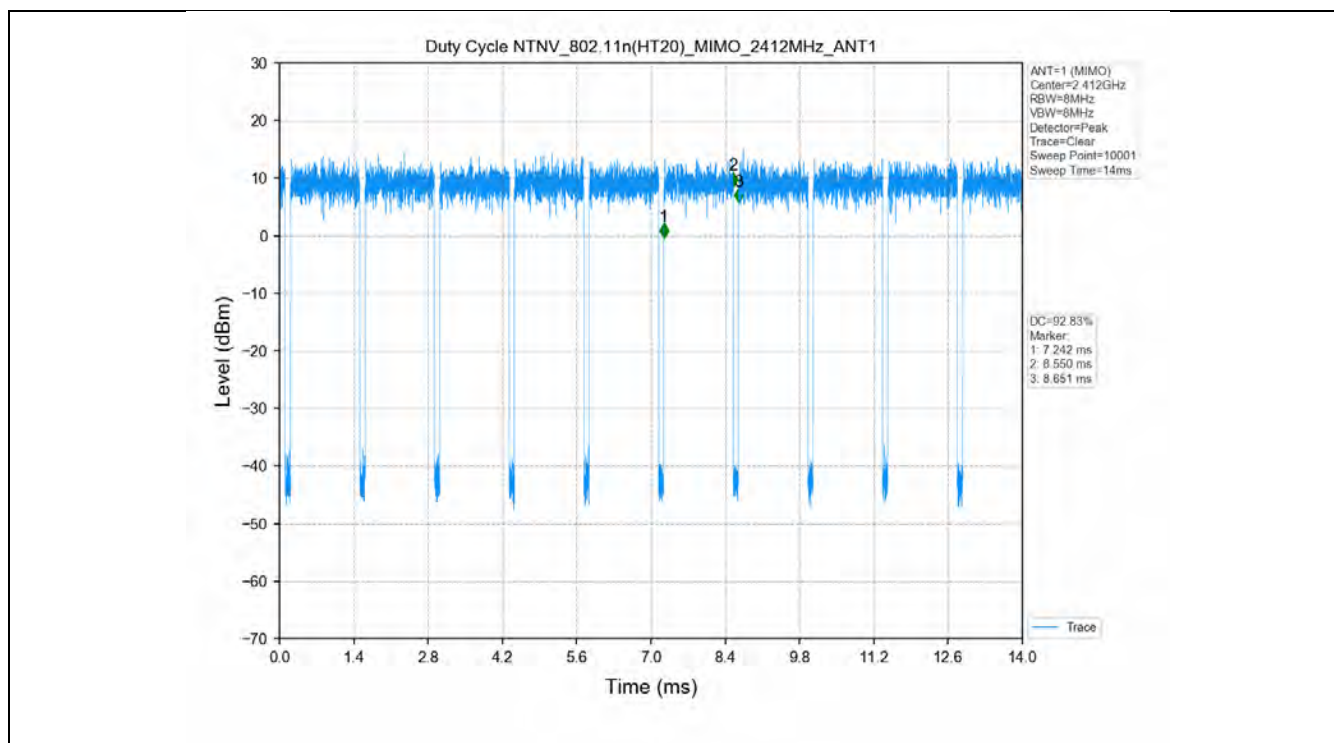


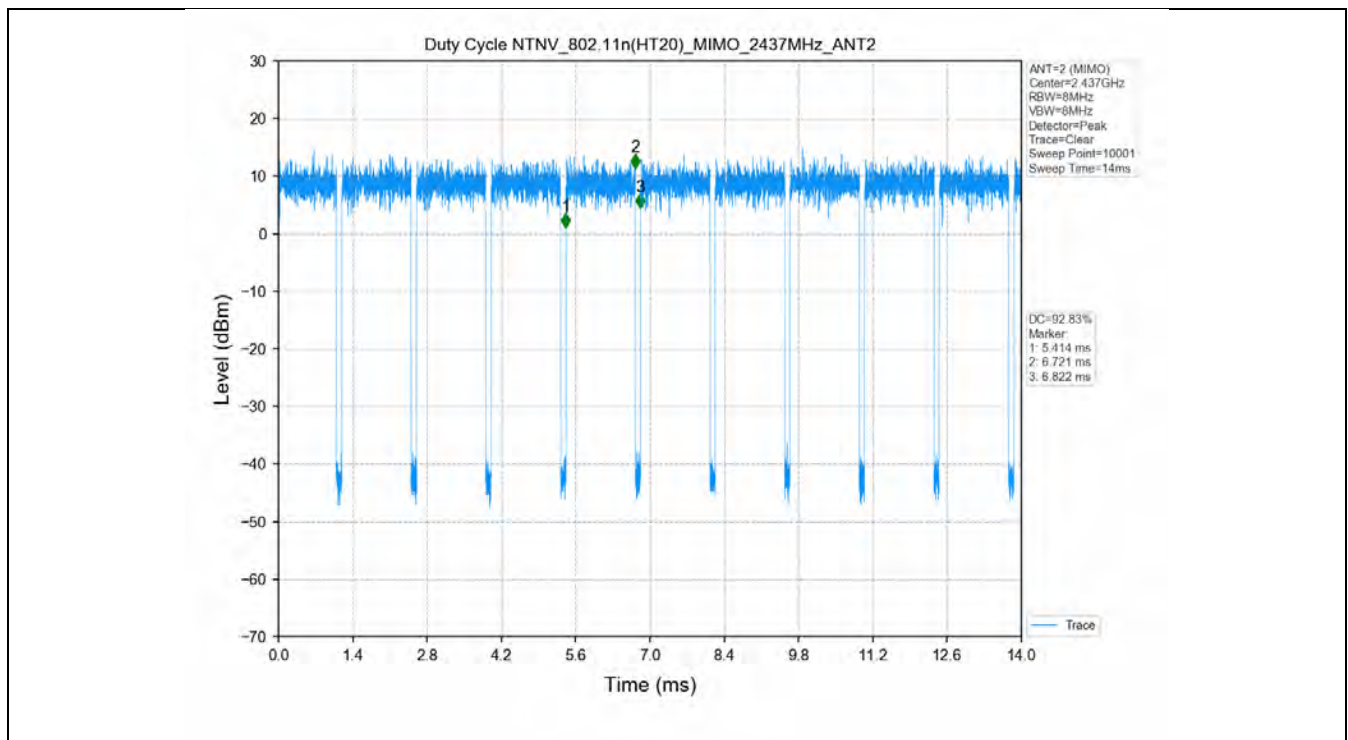
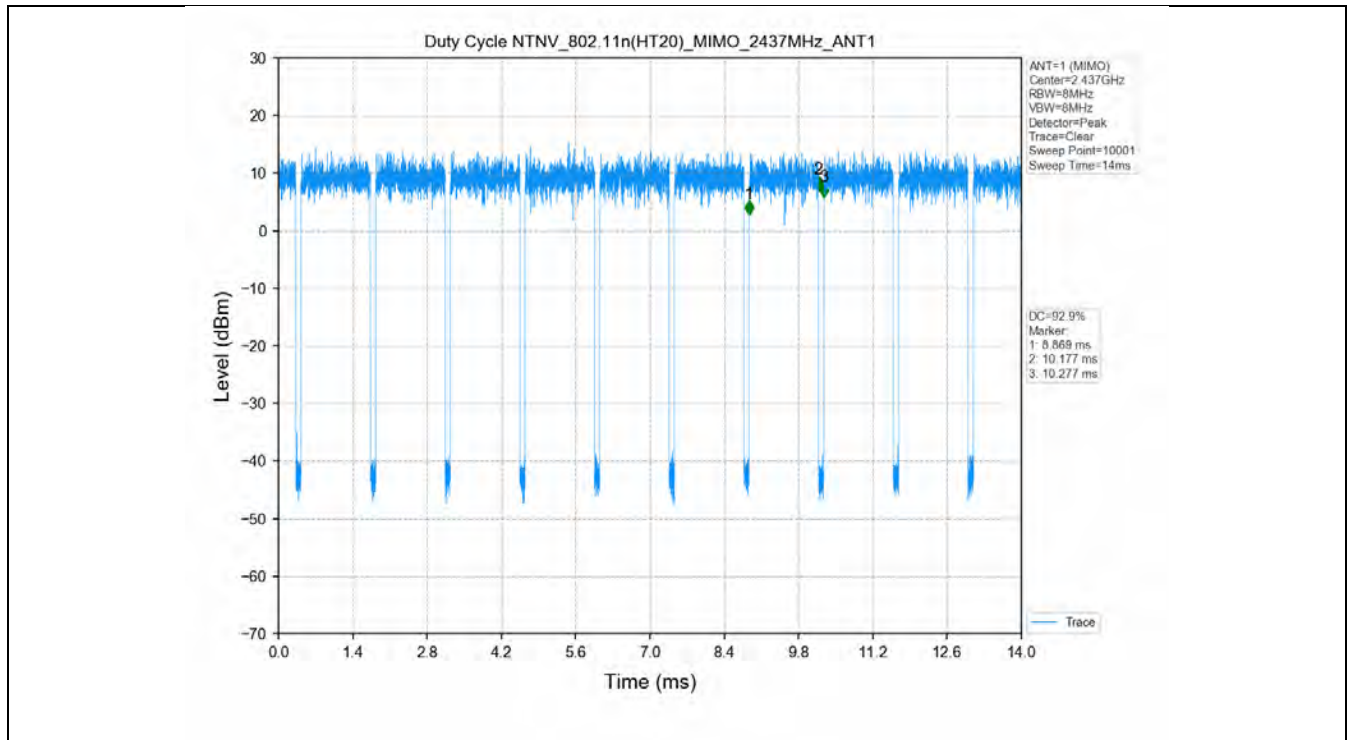


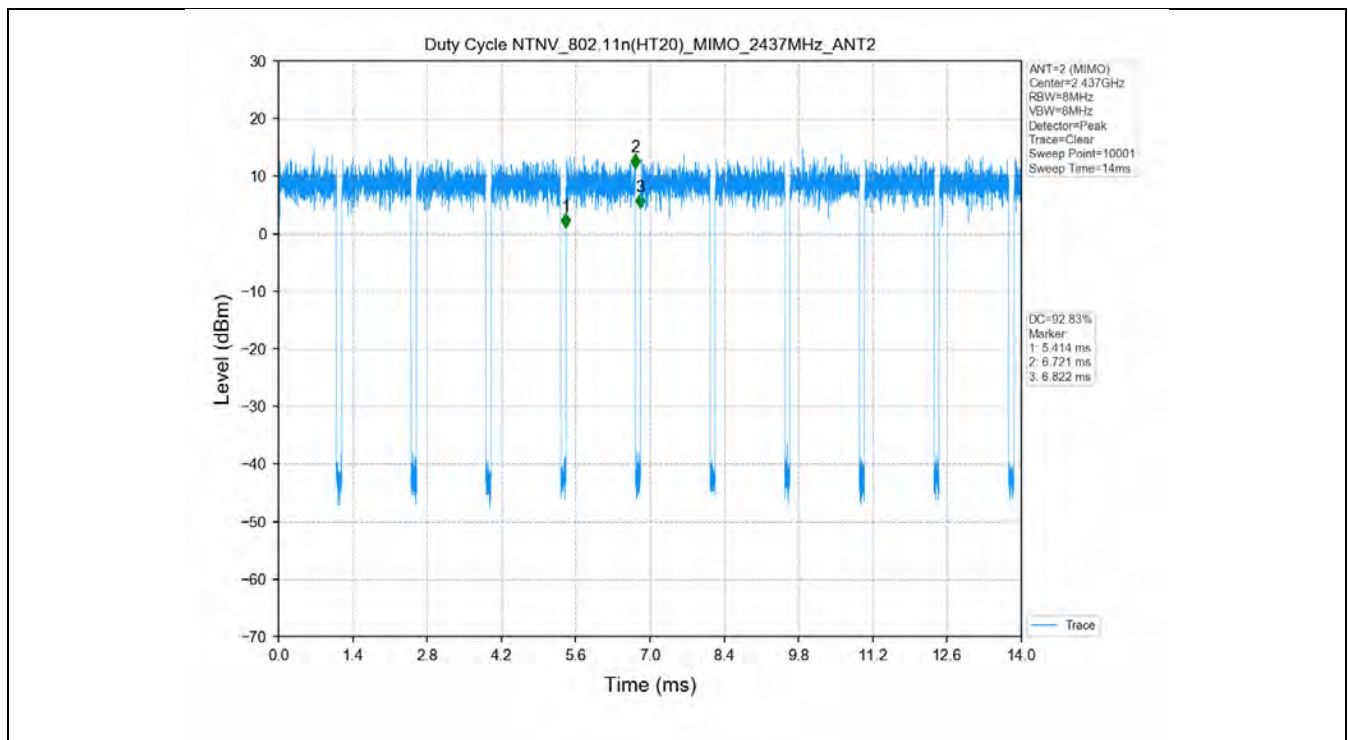
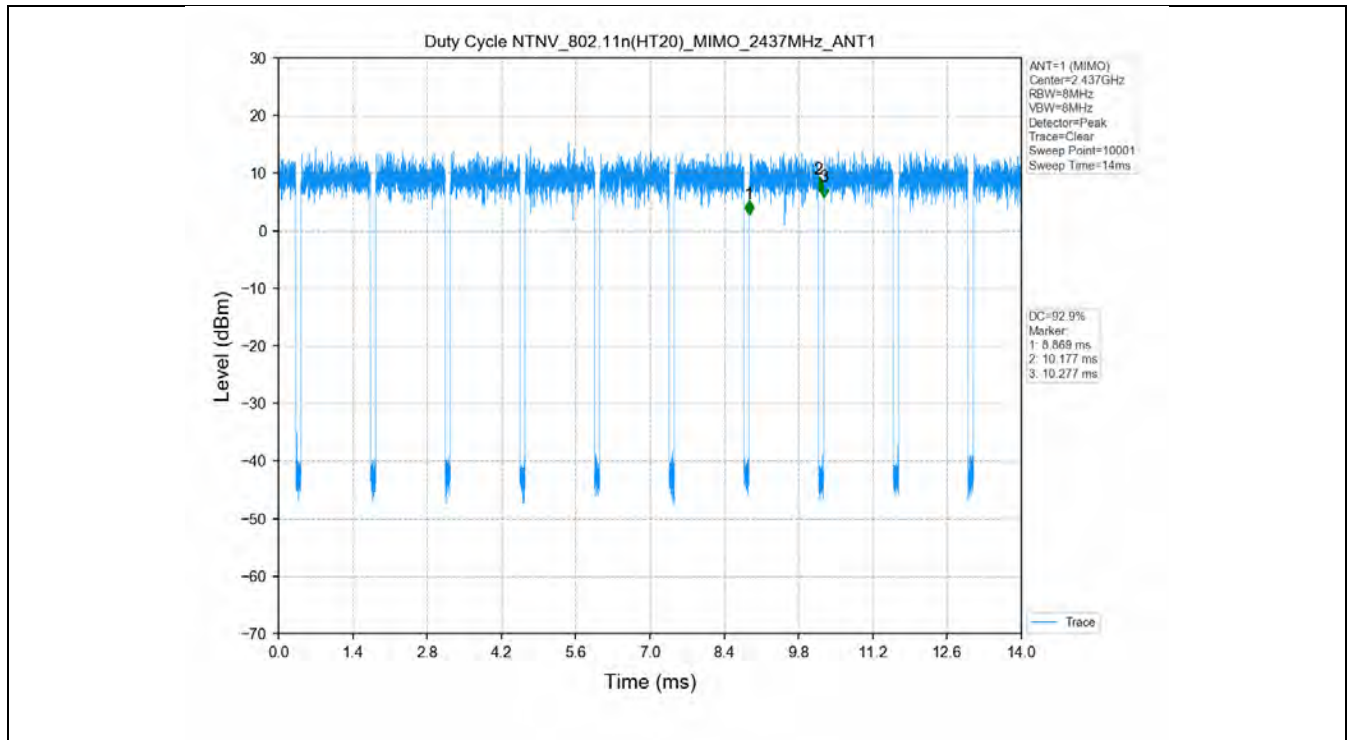


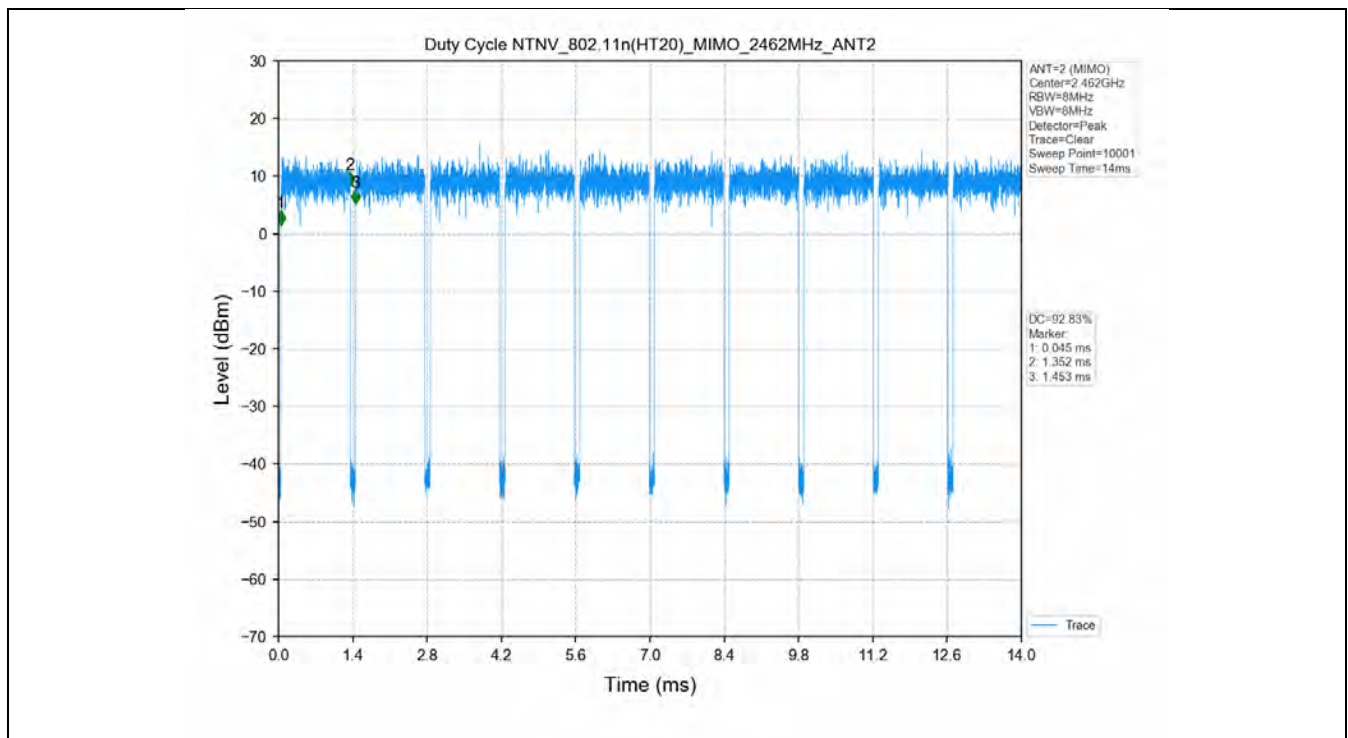
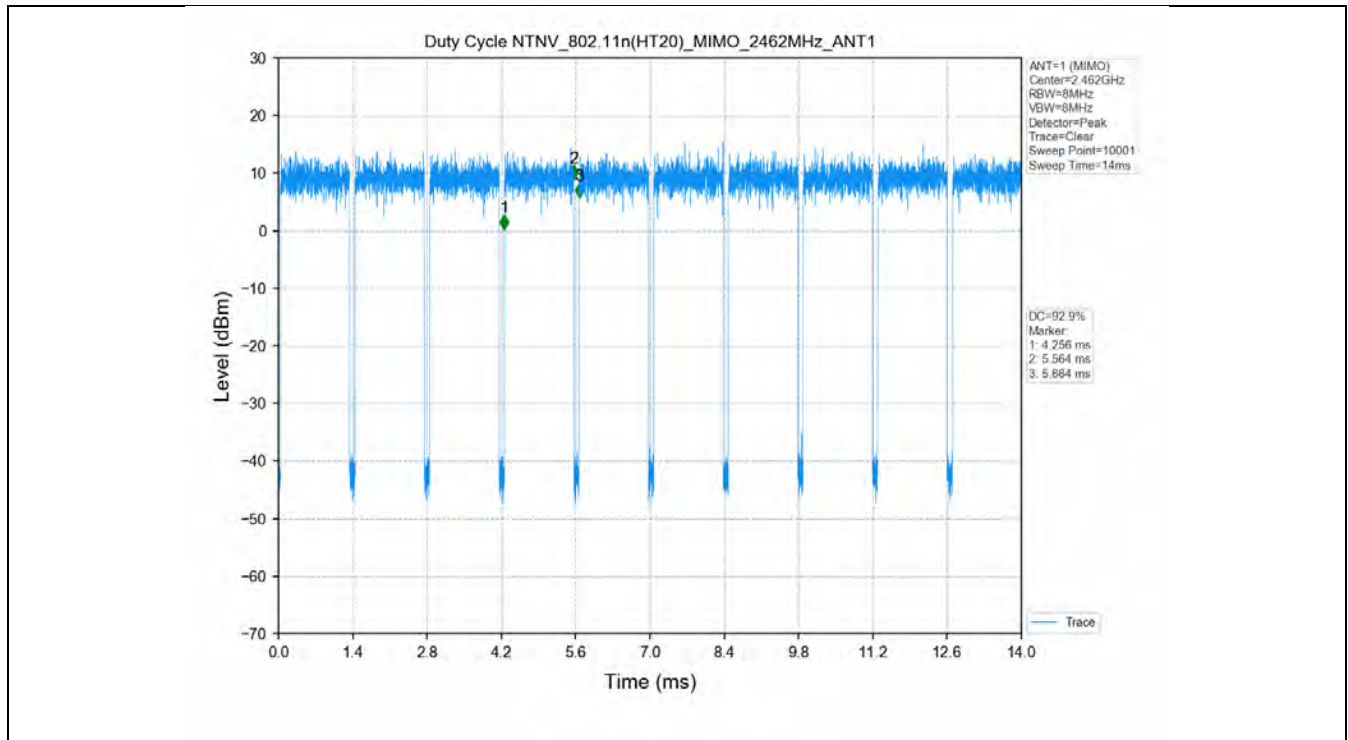


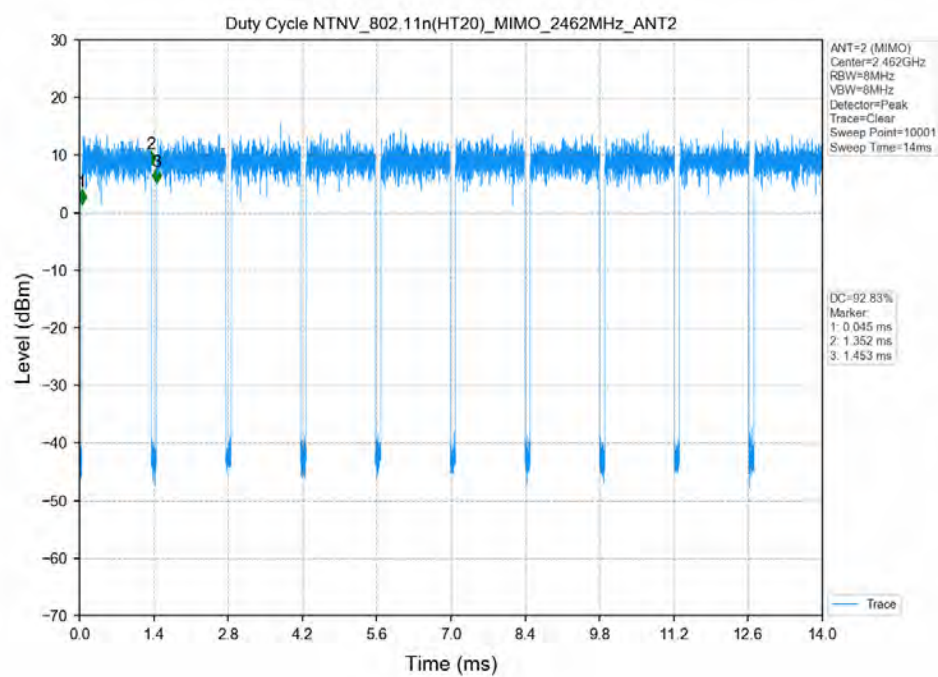
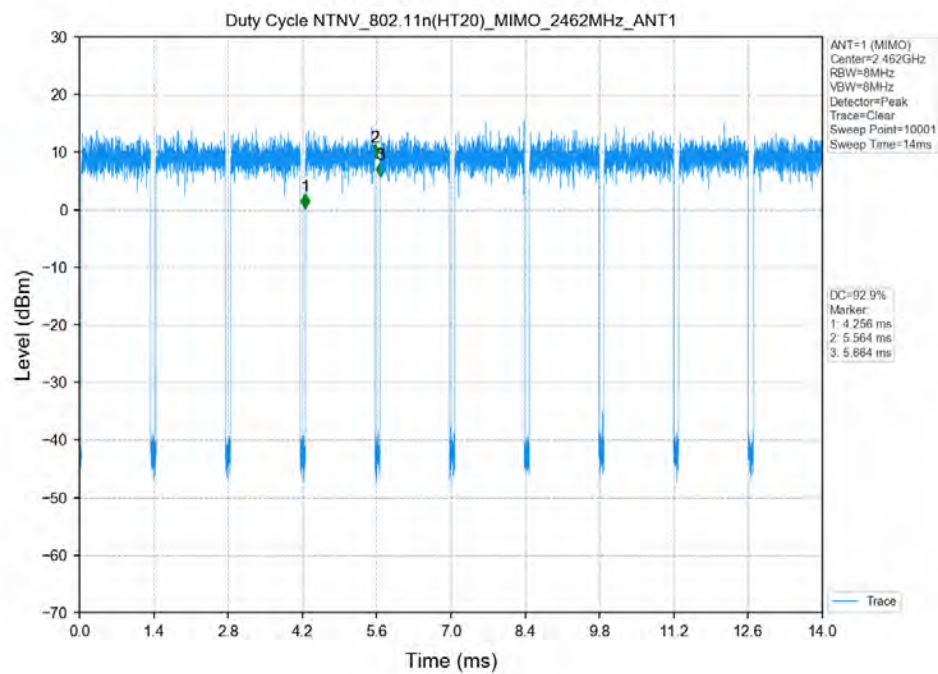














2. Bandwidth

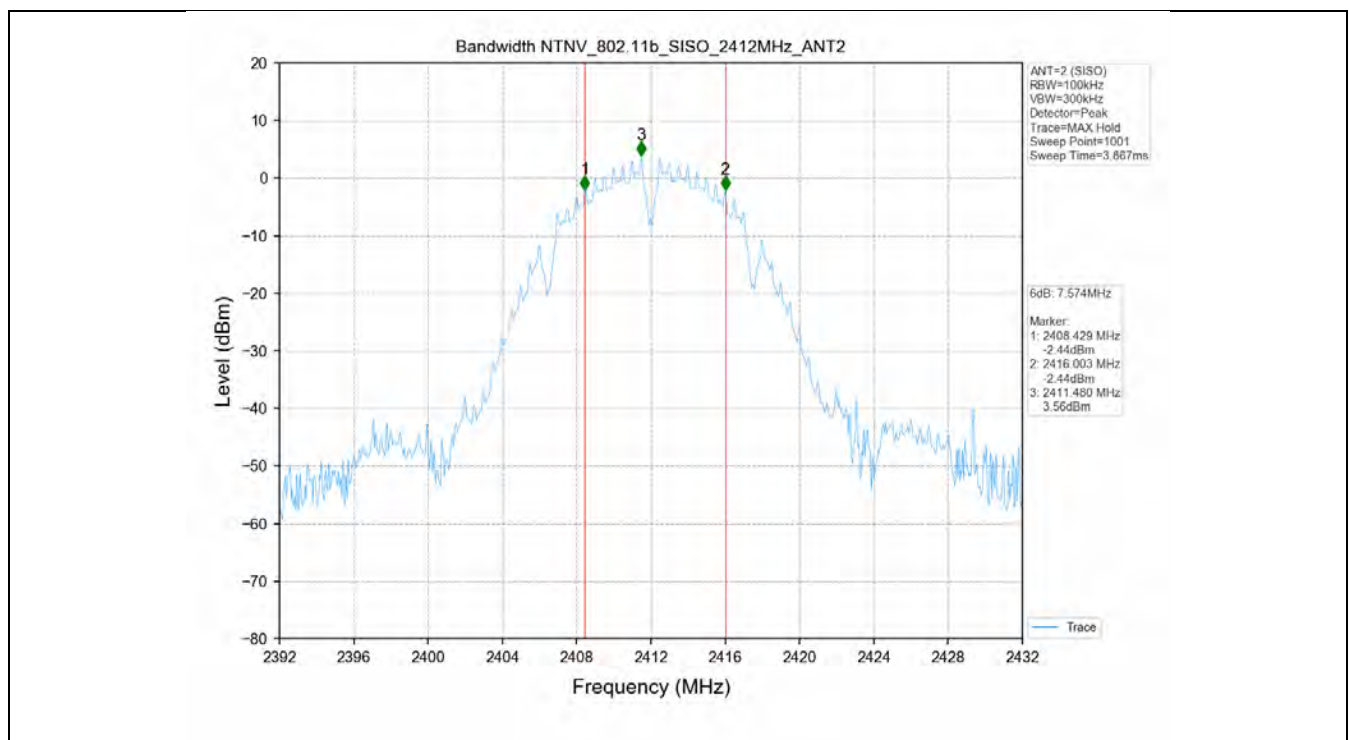
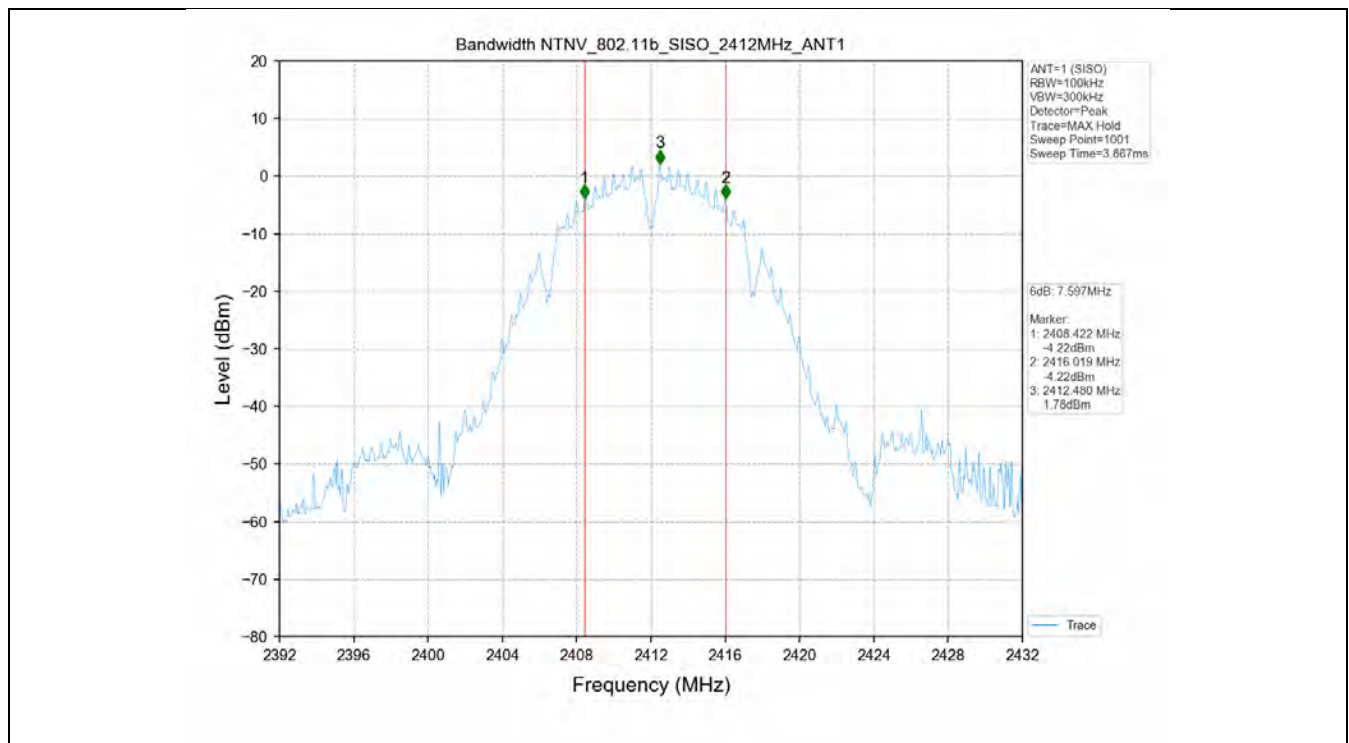
2.1 Test Result

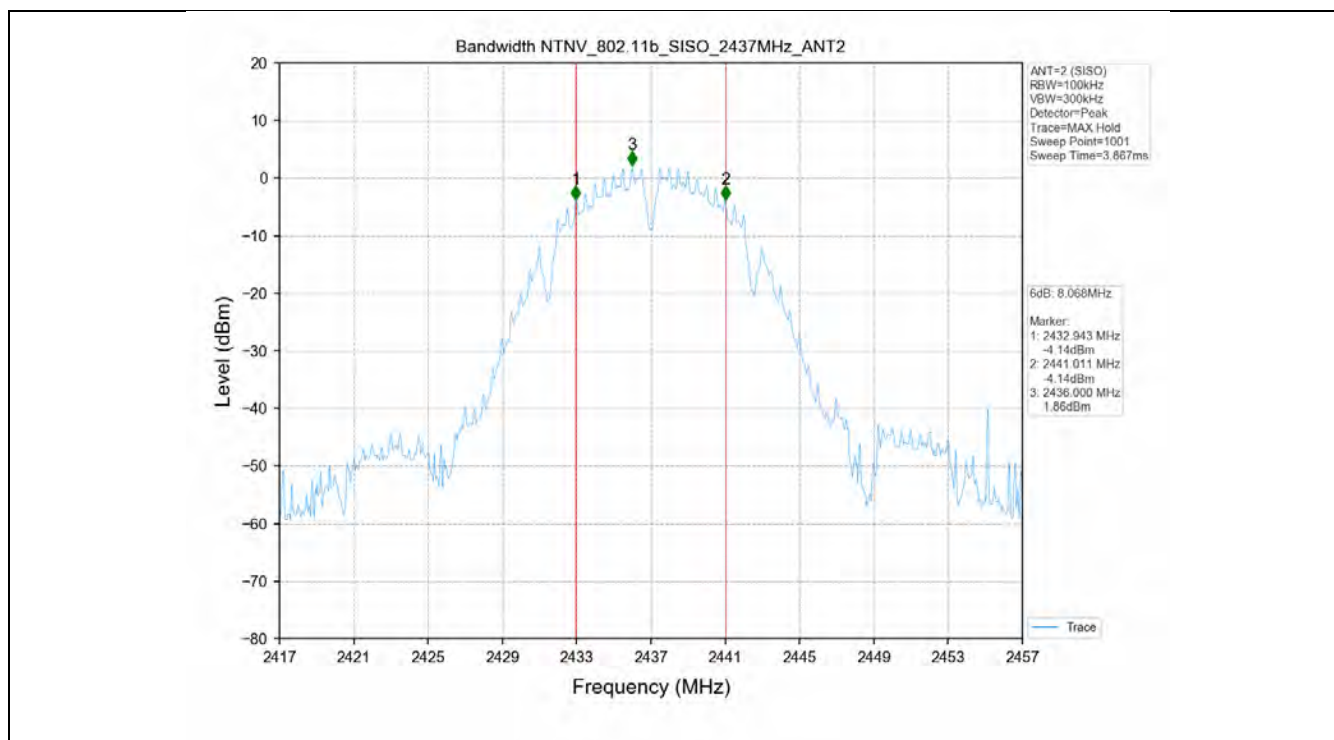
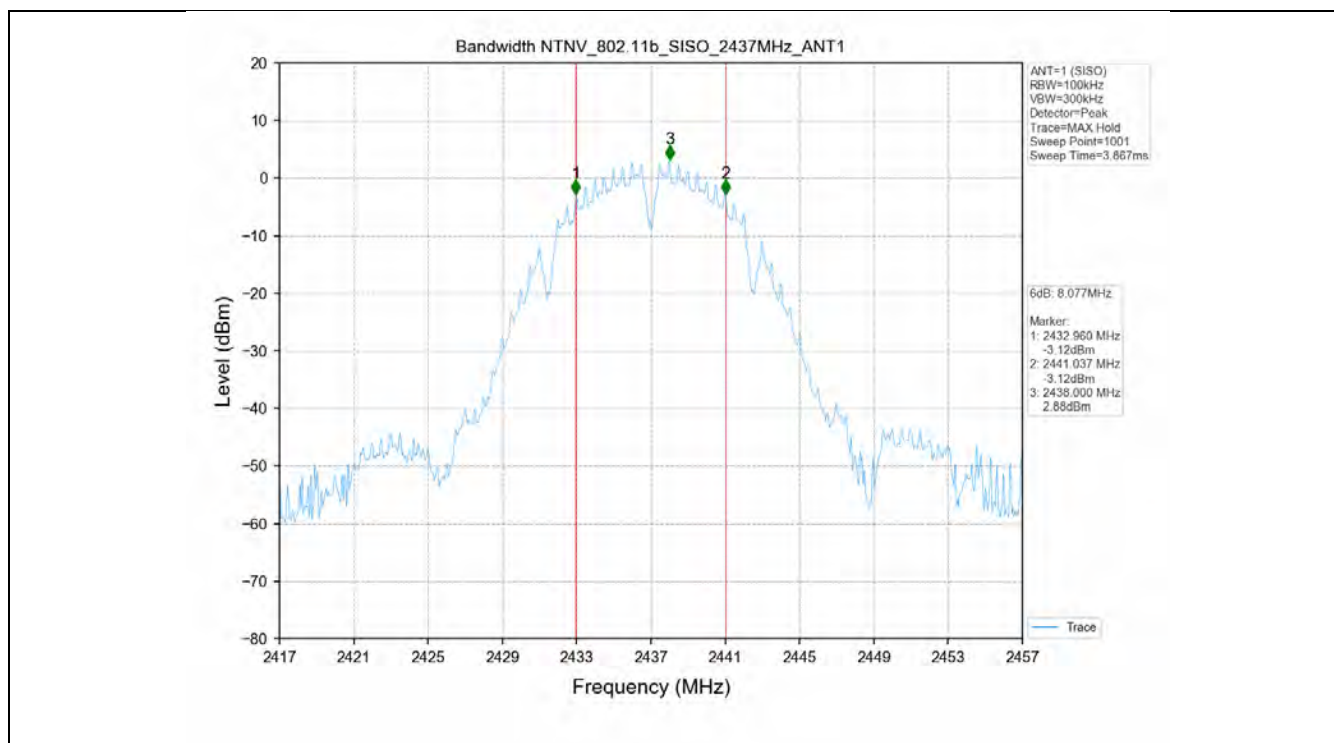
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth	1.5*BW(MHz)	Limits (MHz)	Span using in Power (MHz)	Span using in PSD (MHz)	Verdict
				Test Result (MHz)					
802.11b	2412	SISO	1	7.597	11.396	≥0.5	16.00	12.00	PASS
			2	7.574	11.361	≥0.5	16.00	12.00	PASS
	2437	SISO	1	8.077	12.116	≥0.5	14.00	13.00	PASS
			2	8.068	12.102	≥0.5	14.00	13.00	PASS
	2462	SISO	1	7.145	10.718	≥0.5	16.00	11.00	PASS
			2	7.122	10.683	≥0.5	16.00	11.00	PASS
802.11g	2412	SISO	1	16.368	24.552	≥0.5	25.00	25.00	PASS
			2	16.380	24.570	≥0.5	25.00	25.00	PASS
	2437	SISO	1	16.384	24.576	≥0.5	25.00	25.00	PASS
			2	16.349	24.524	≥0.5	25.00	25.00	PASS
	2462	SISO	1	16.361	24.542	≥0.5	25.00	25.00	PASS
			2	16.359	24.539	≥0.5	25.00	25.00	PASS
802.11n(HT20)	2412	MIMO	1	17.601	26.402	≥0.5	27.00	27.00	PASS
	2412	MIMO	2	17.601	26.402	≥0.5	27.00	27.00	PASS
	2437	MIMO	1	17.638	26.457	≥0.5	27.00	27.00	PASS
	2437	MIMO	2	17.638	26.457	≥0.5	27.00	27.00	PASS
	2462	MIMO	1	17.623	26.435	≥0.5	27.00	27.00	PASS
	2462	MIMO	2	17.623	26.435	≥0.5	27.00	27.00	PASS

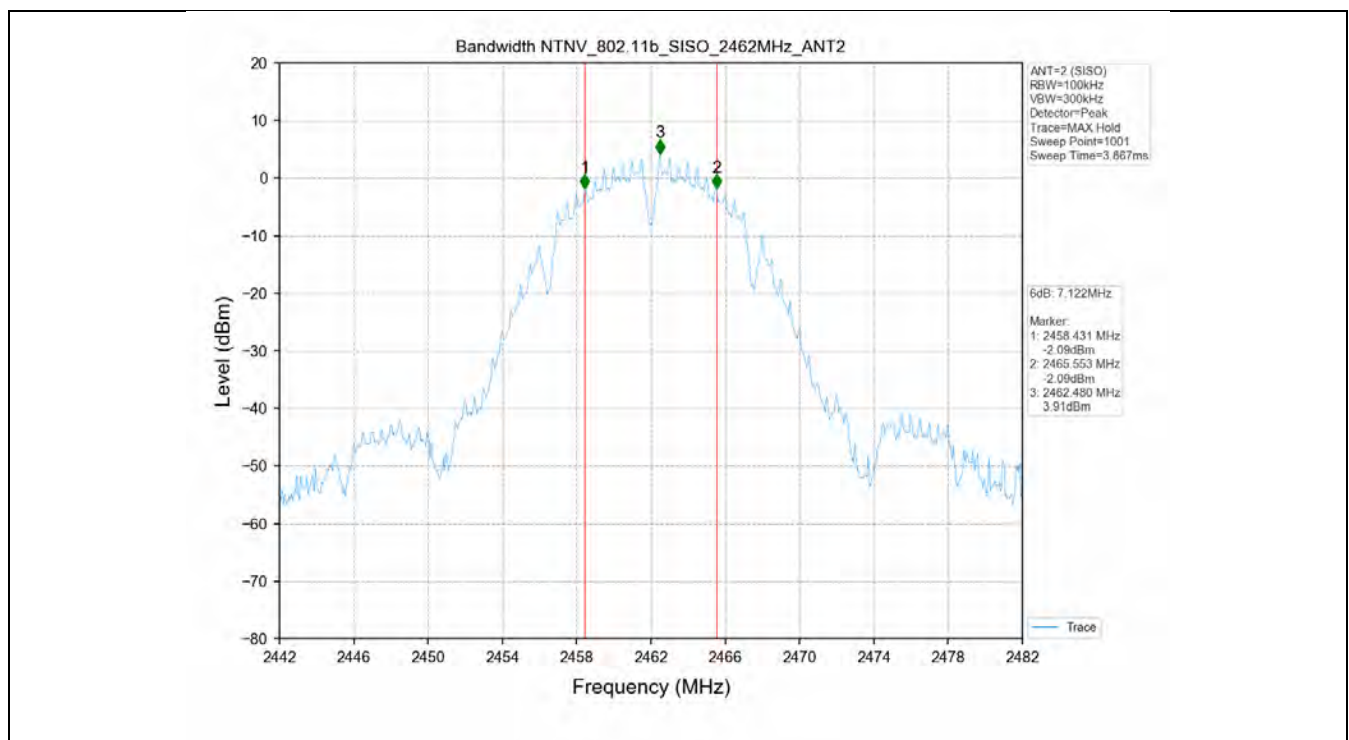
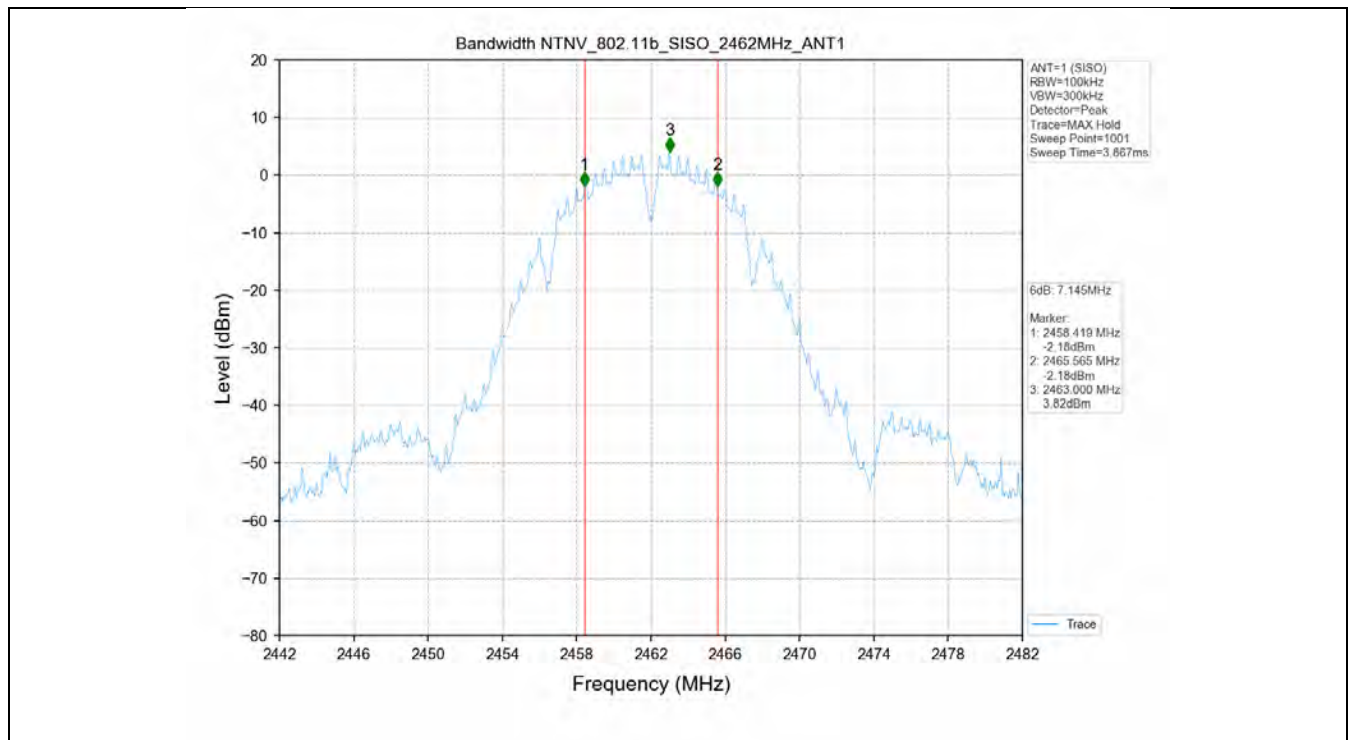
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	11.728	Only for Report Use
			2	11.758	Only for Report Use
	2437	SISO	1	11.751	Only for Report Use
			2	11.760	Only for Report Use
	2462	SISO	1	11.802	Only for Report Use
			2	11.825	Only for Report Use
802.11g	2412	SISO	1	16.893	Only for Report Use
			2	16.929	Only for Report Use
	2437	SISO	1	16.952	Only for Report Use
			2	16.897	Only for Report Use
	2462	SISO	1	16.930	Only for Report Use
			2	16.941	Only for Report Use
802.11n(HT20)	2412	MIMO	1	17.853	Only for Report Use
	2412	MIMO	2	17.853	Only for Report Use
	2437	MIMO	1	17.829	Only for Report Use
	2437	MIMO	2	17.829	Only for Report Use
	2462	MIMO	1	17.828	Only for Report Use
	2462	MIMO	2	17.828	Only for Report Use

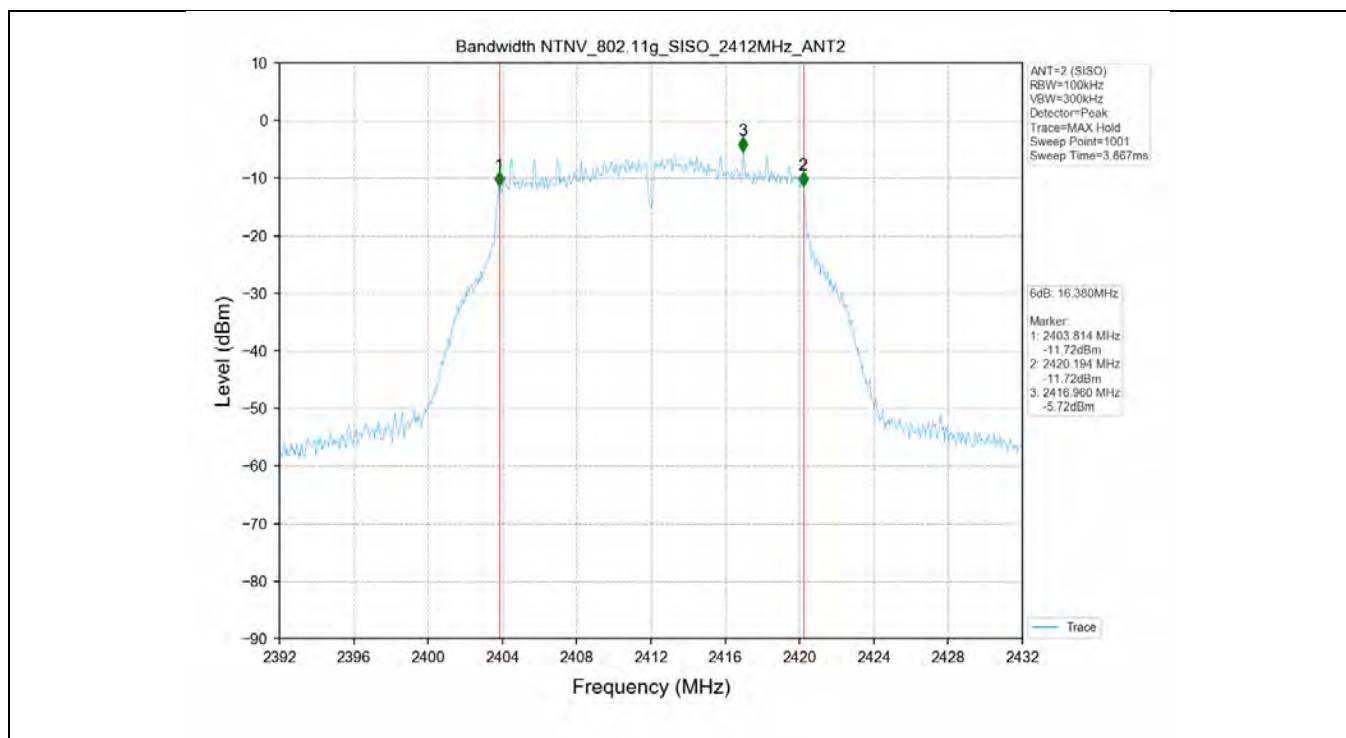
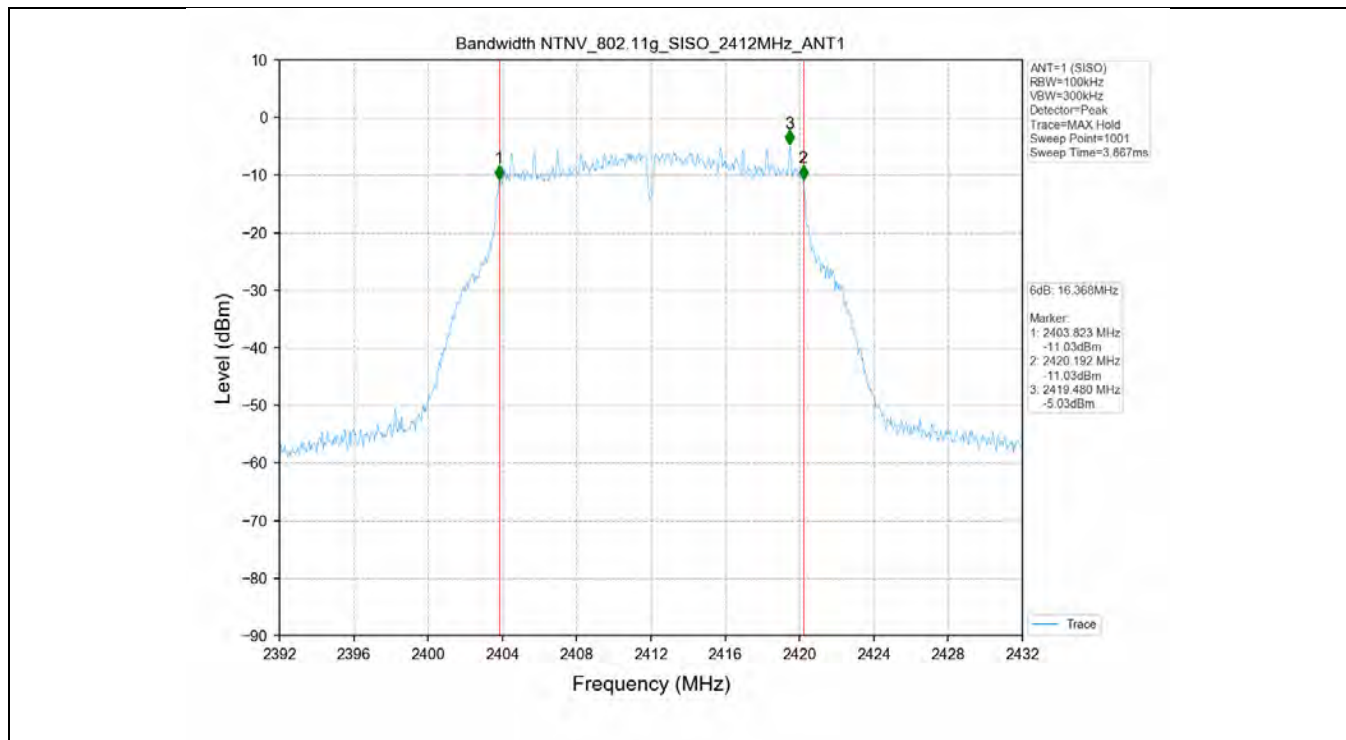


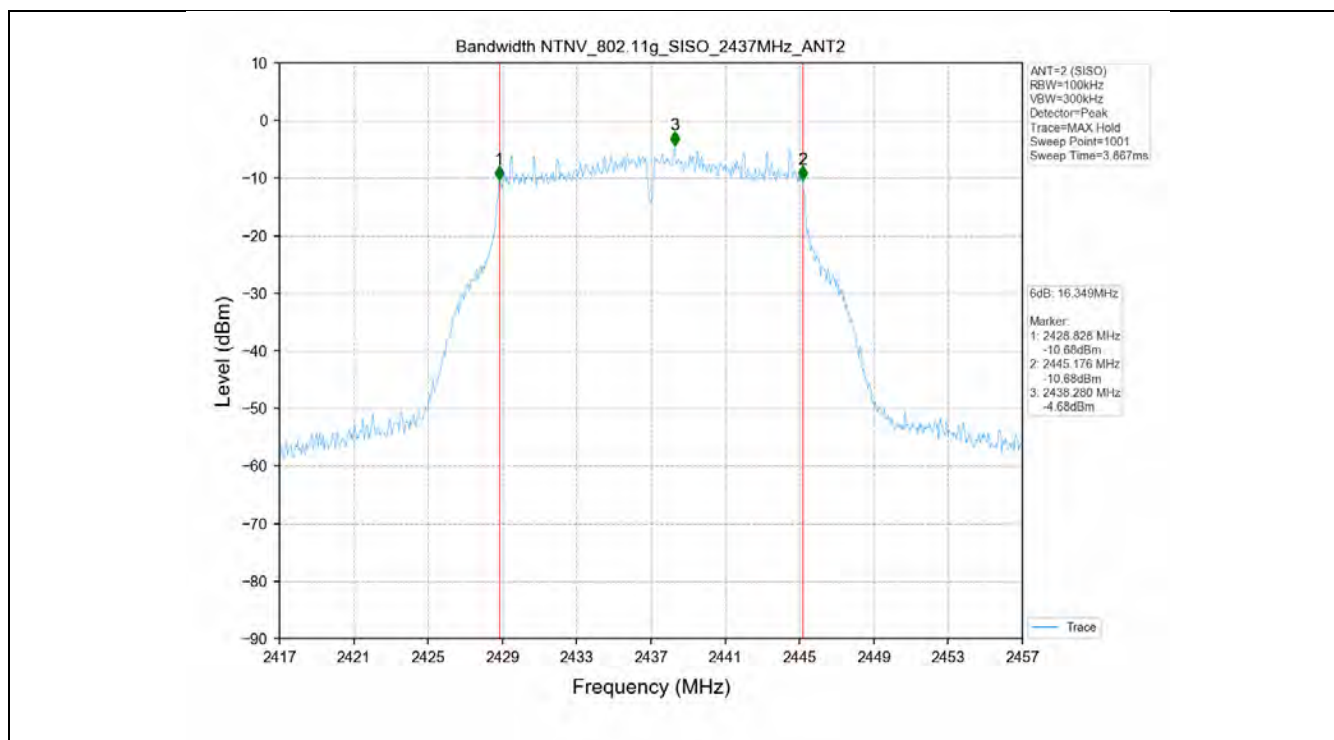
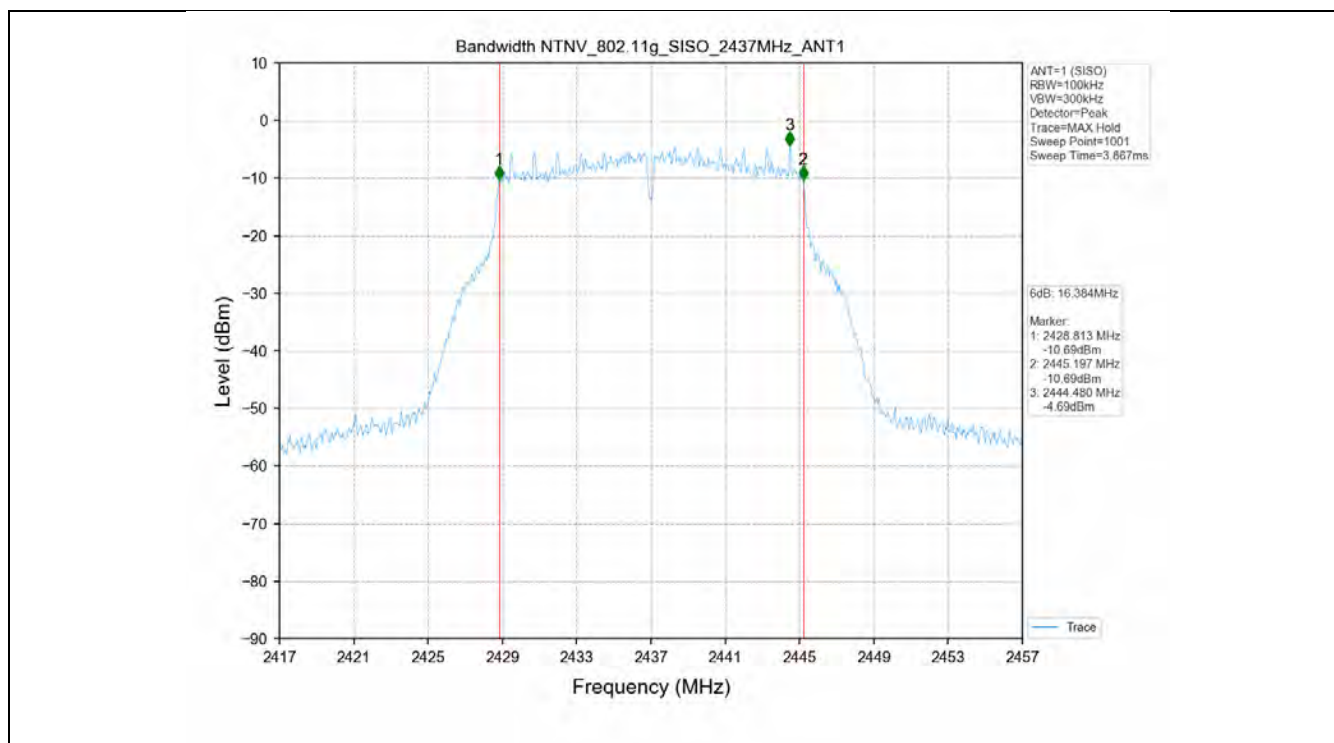
2.2 Test Graph - 6dB Bandwidth

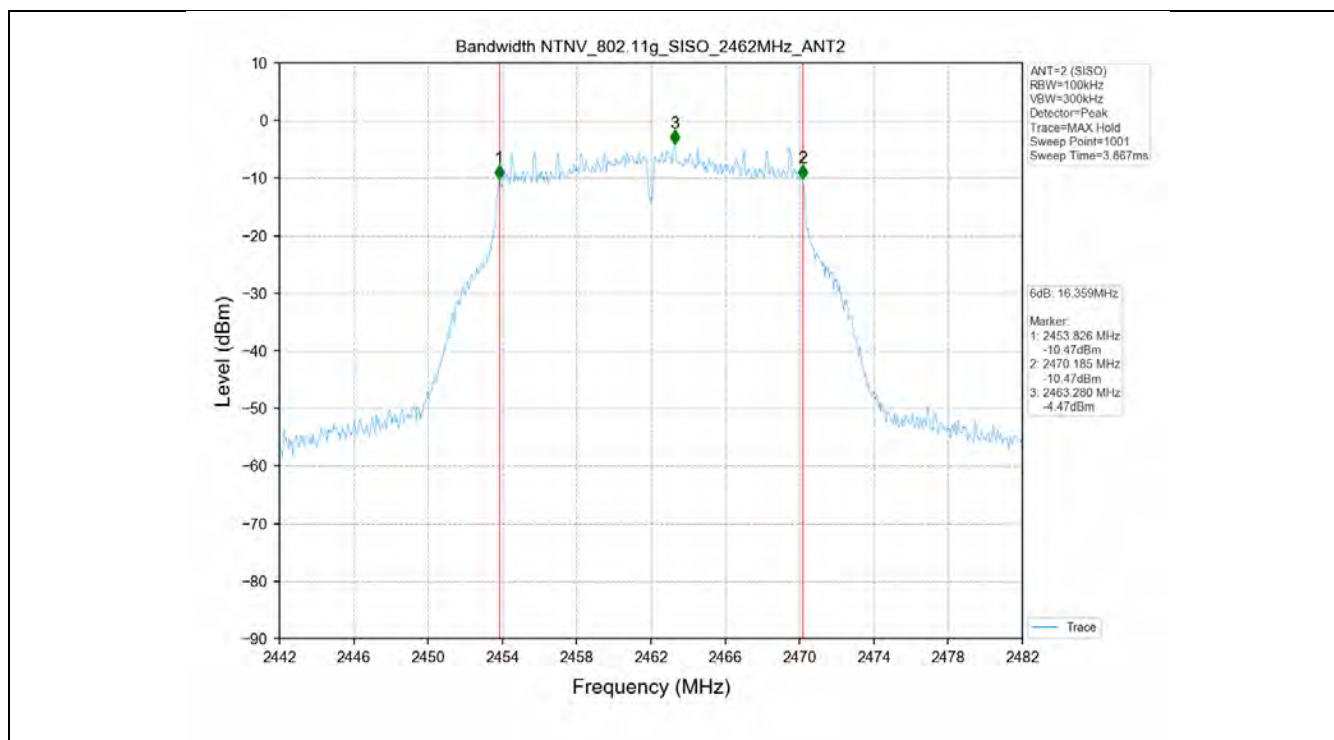
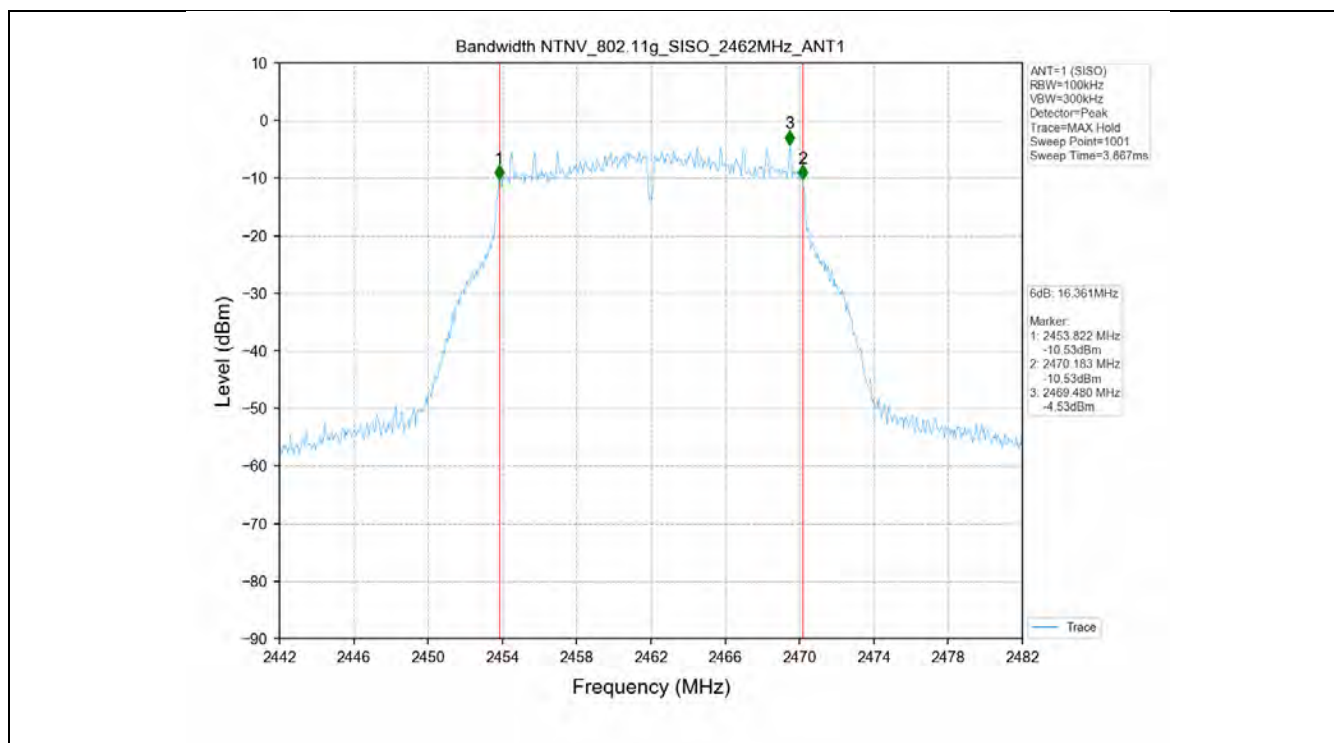


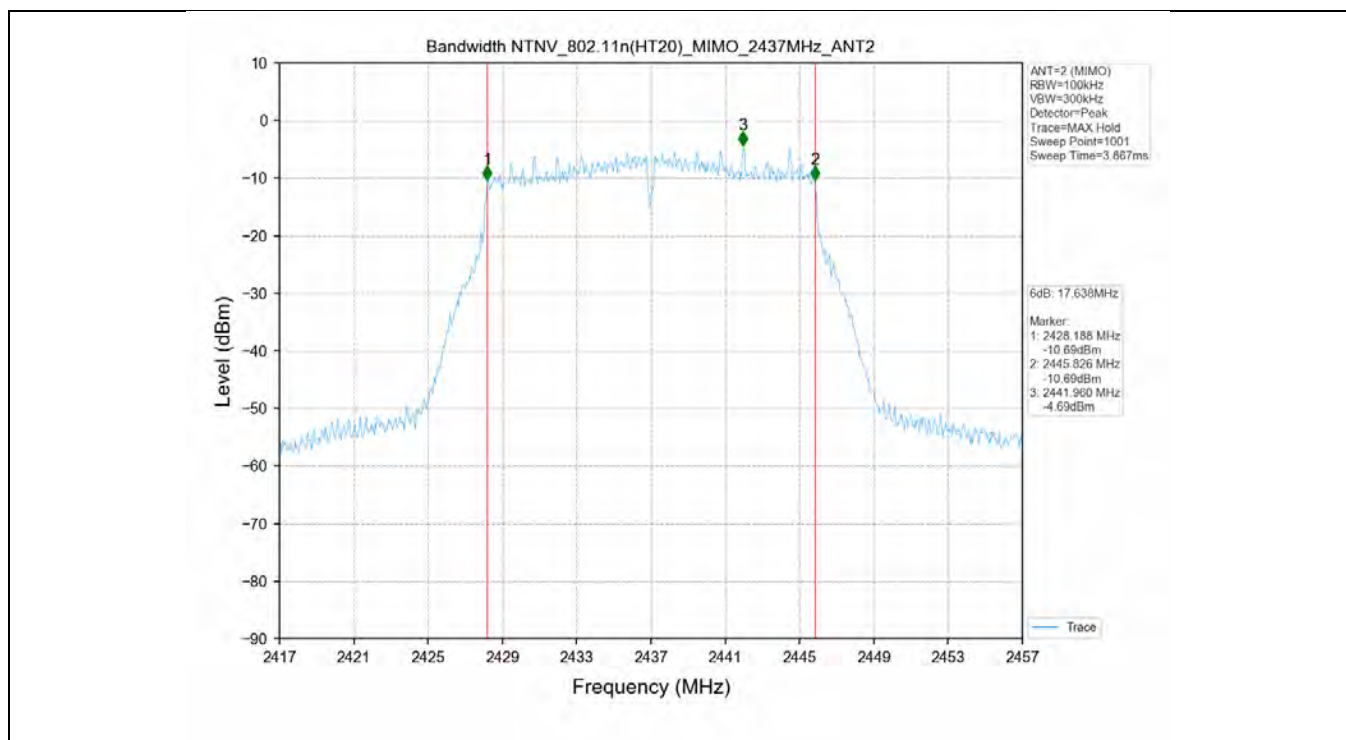
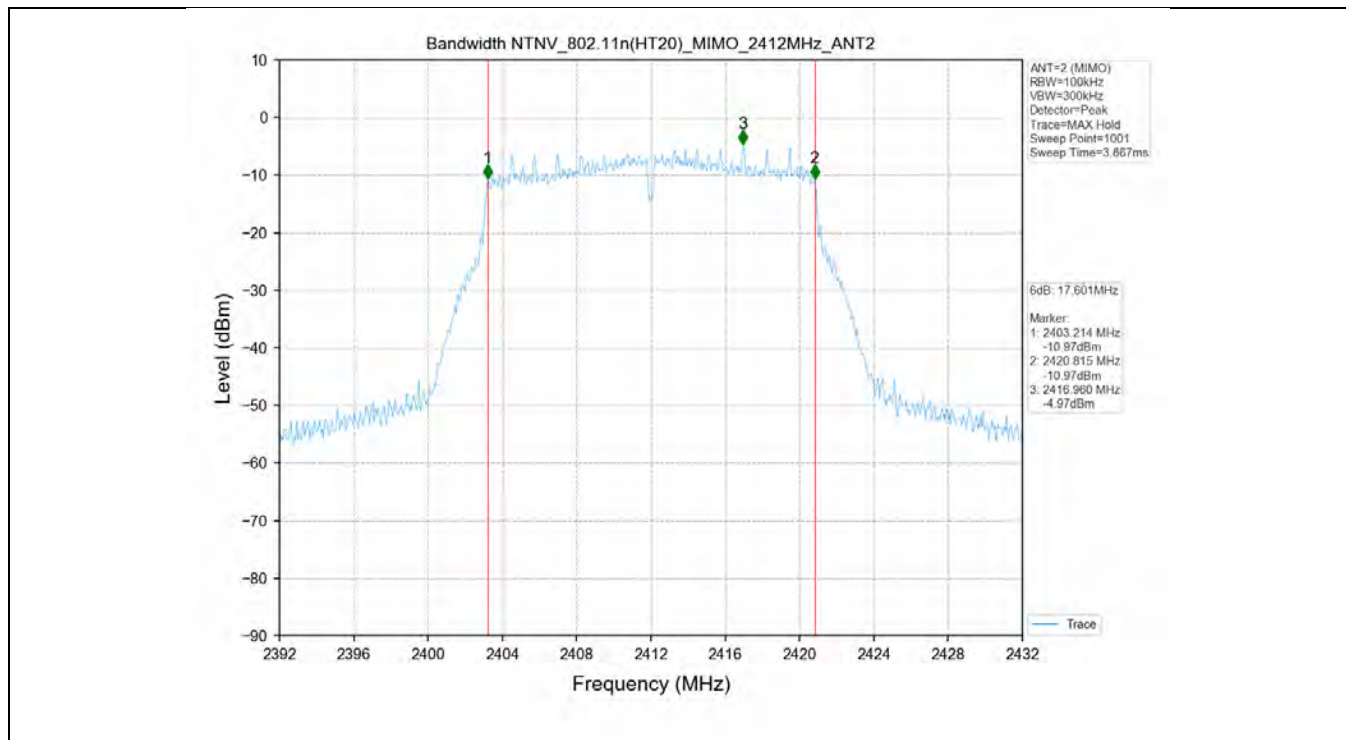


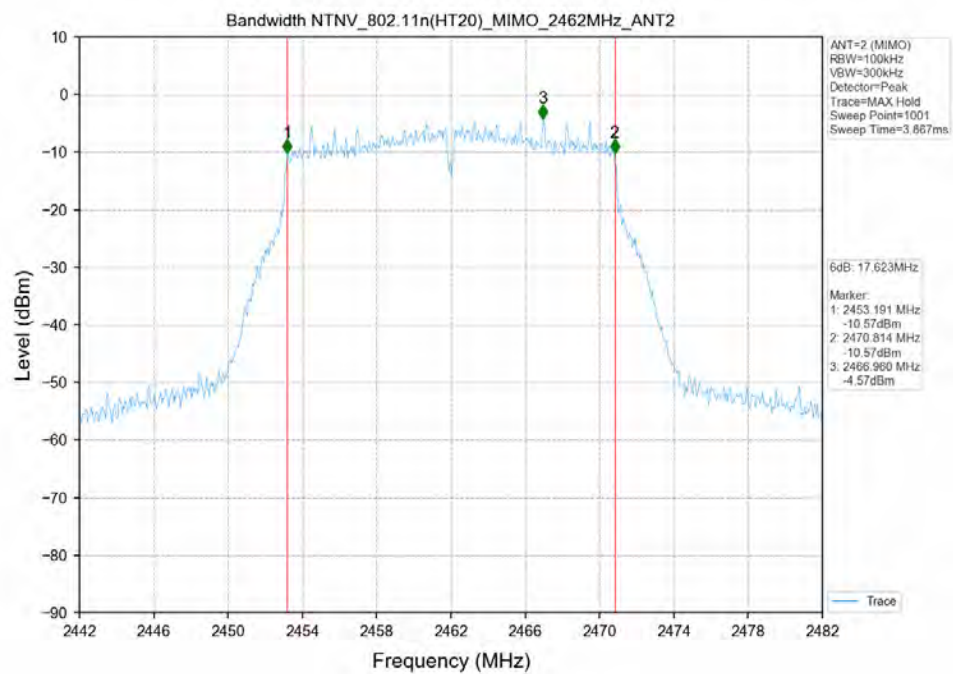






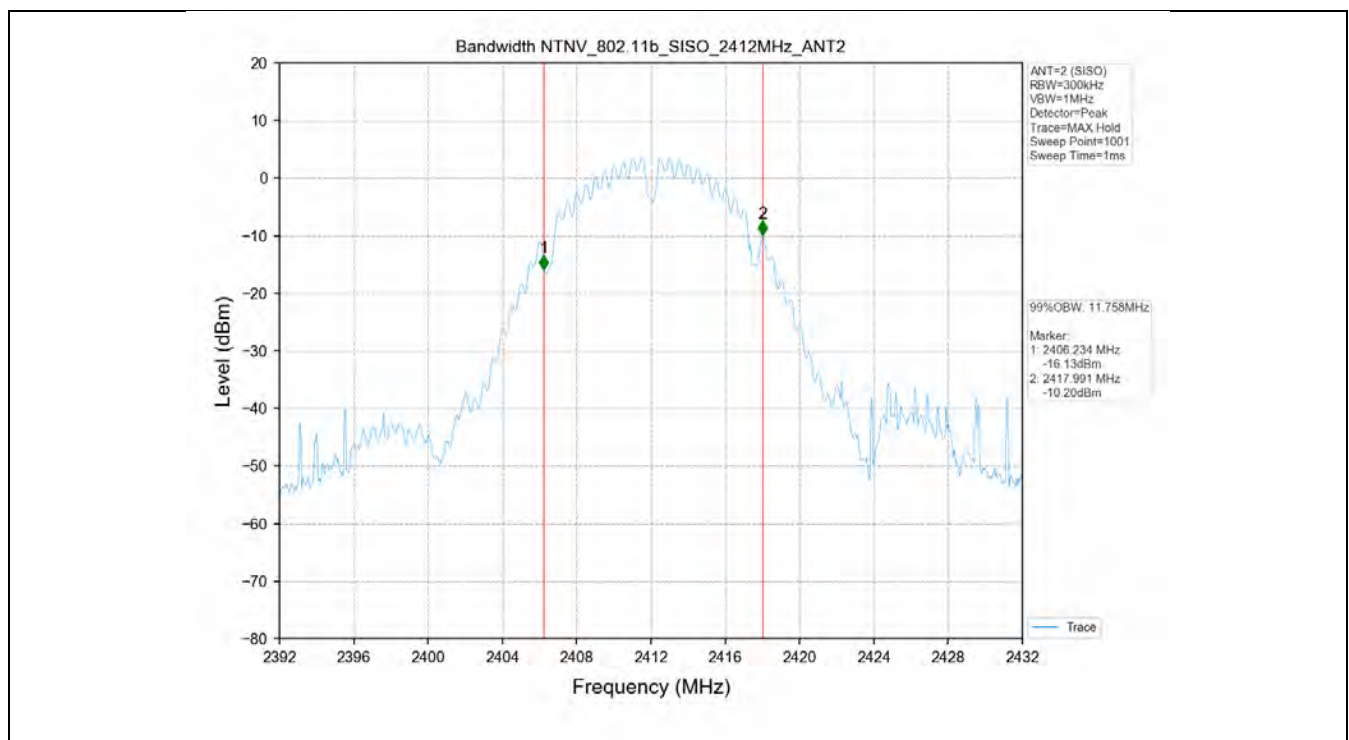
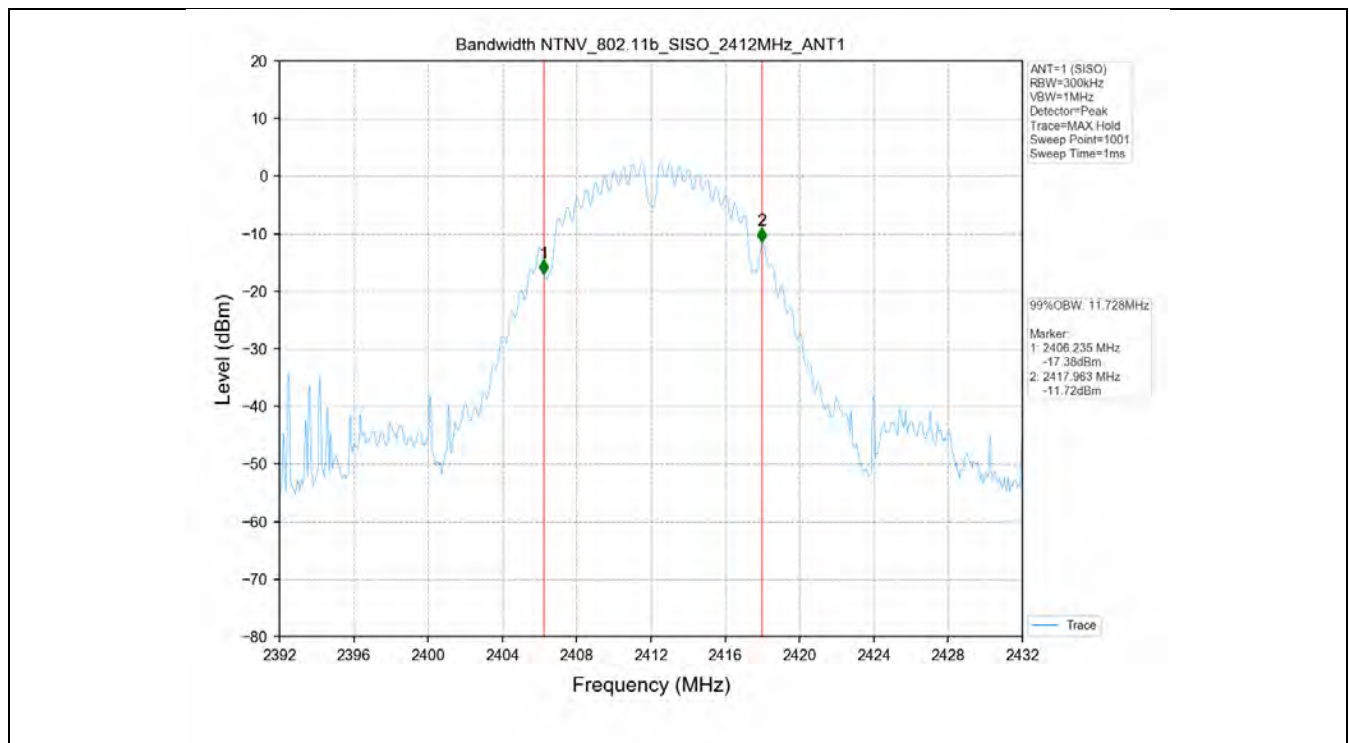


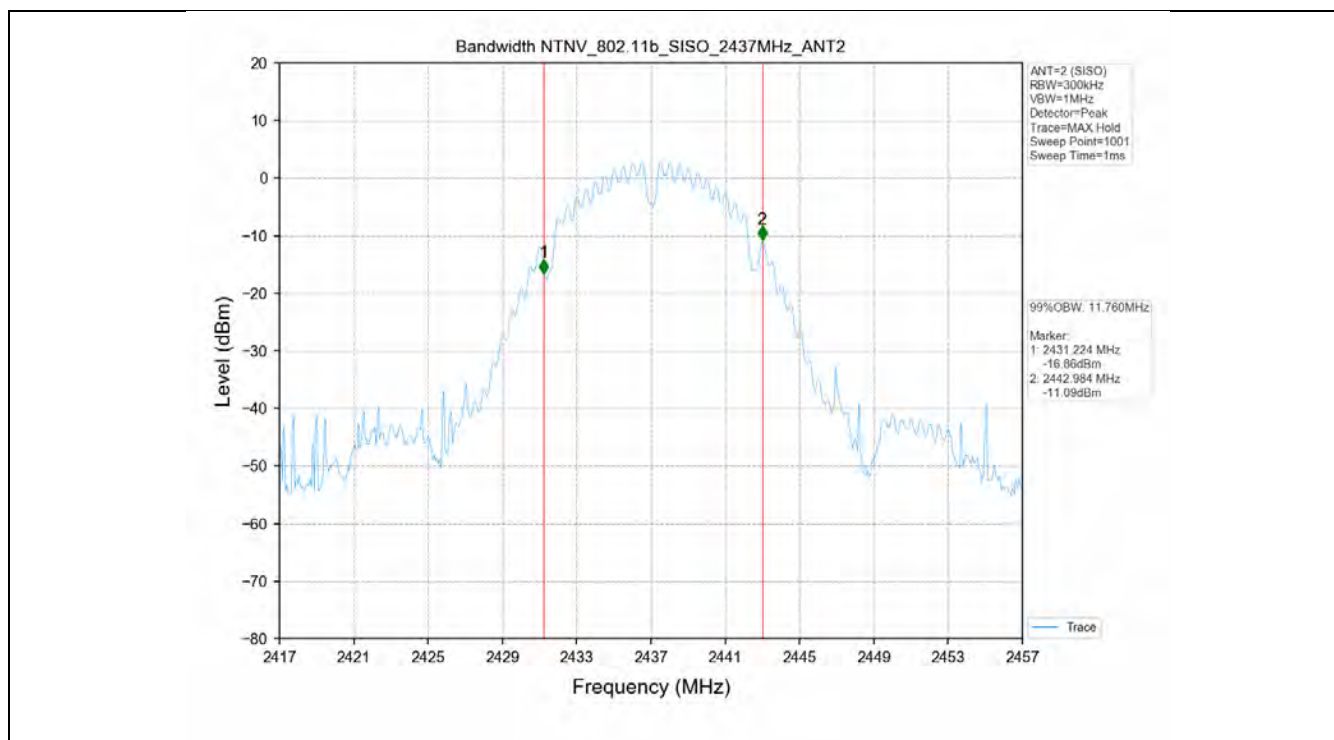
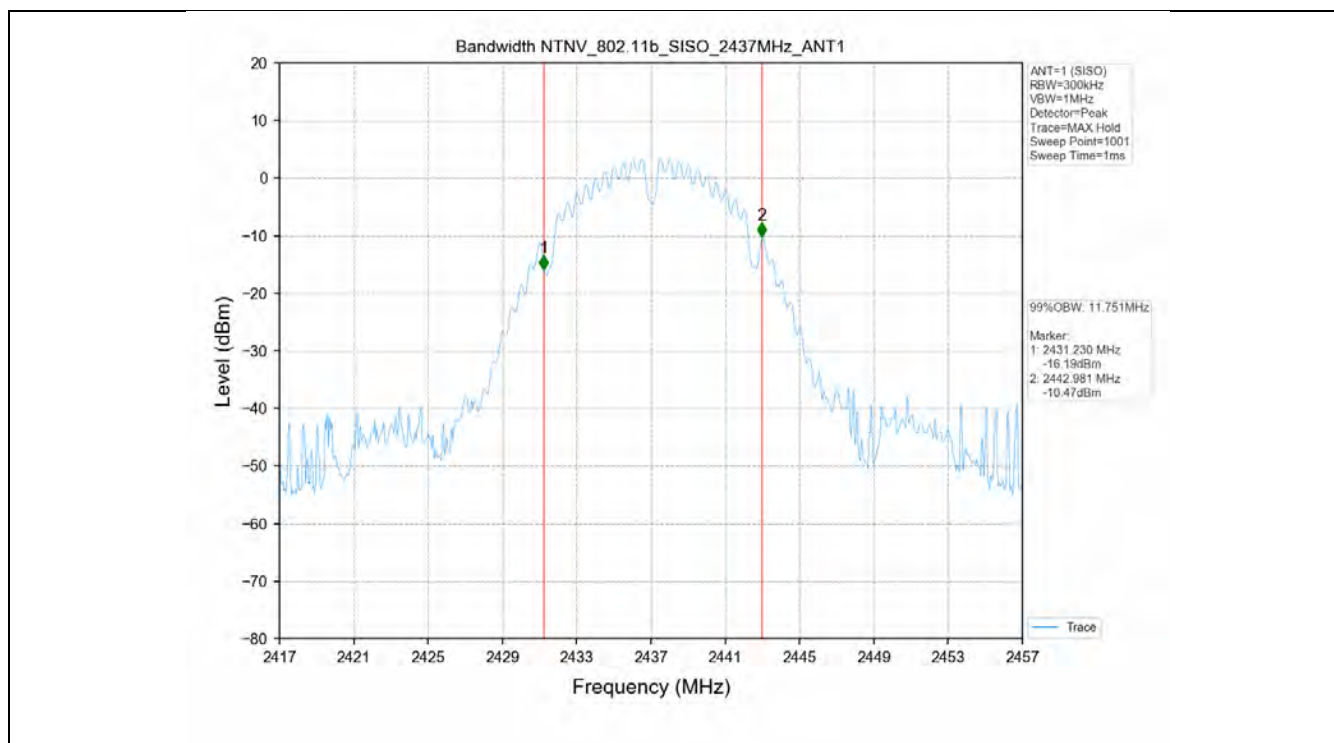


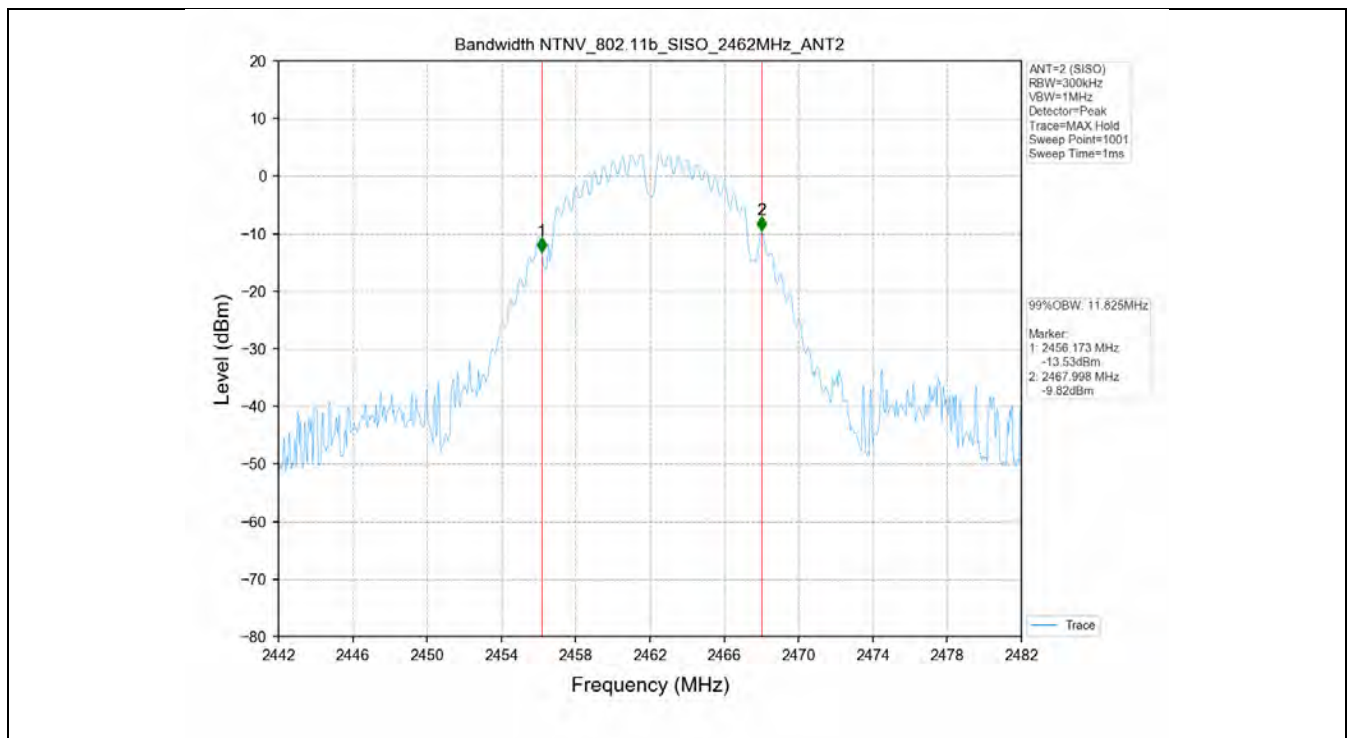
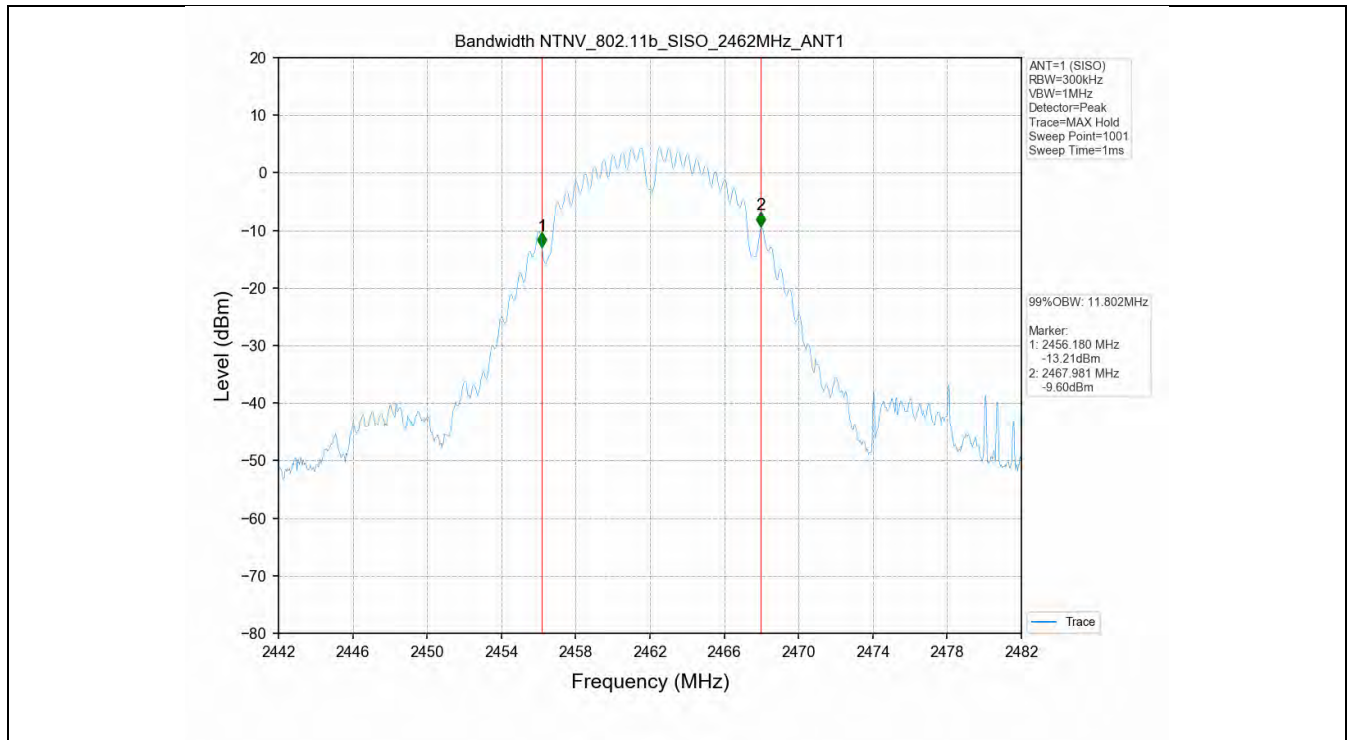


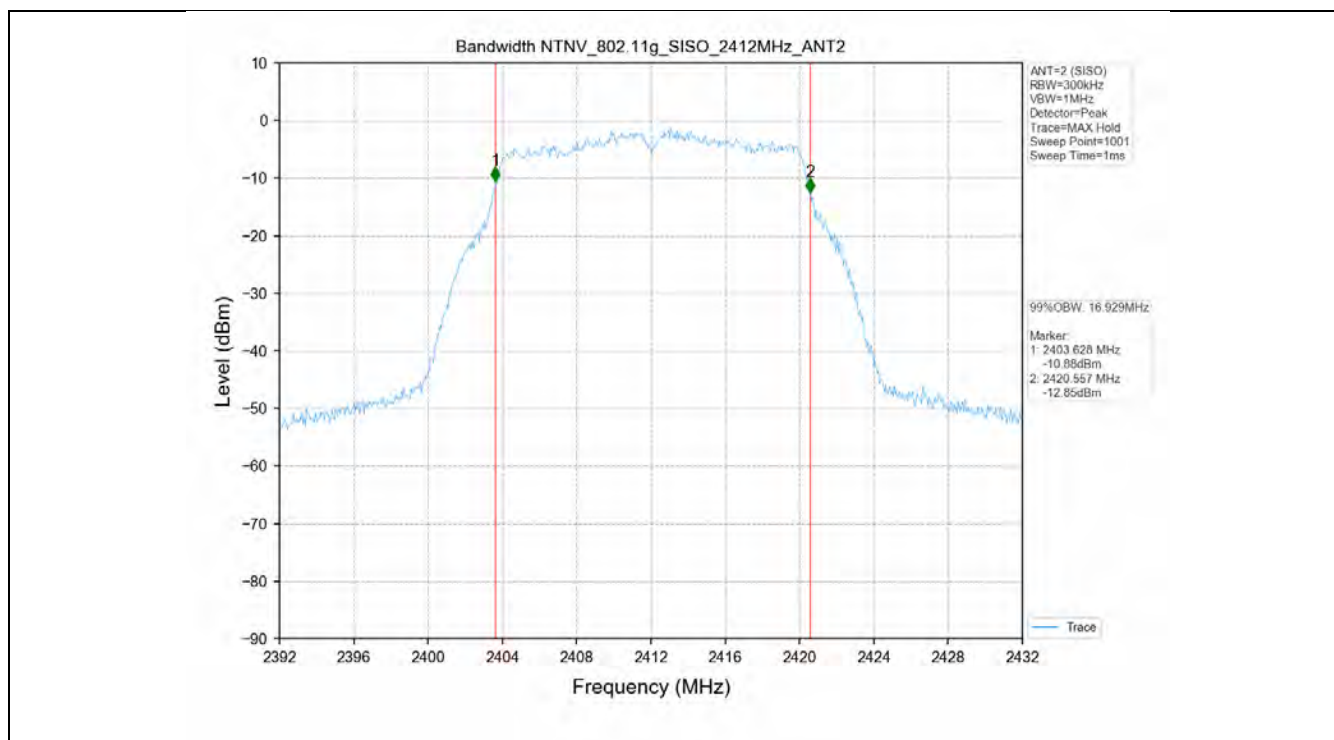
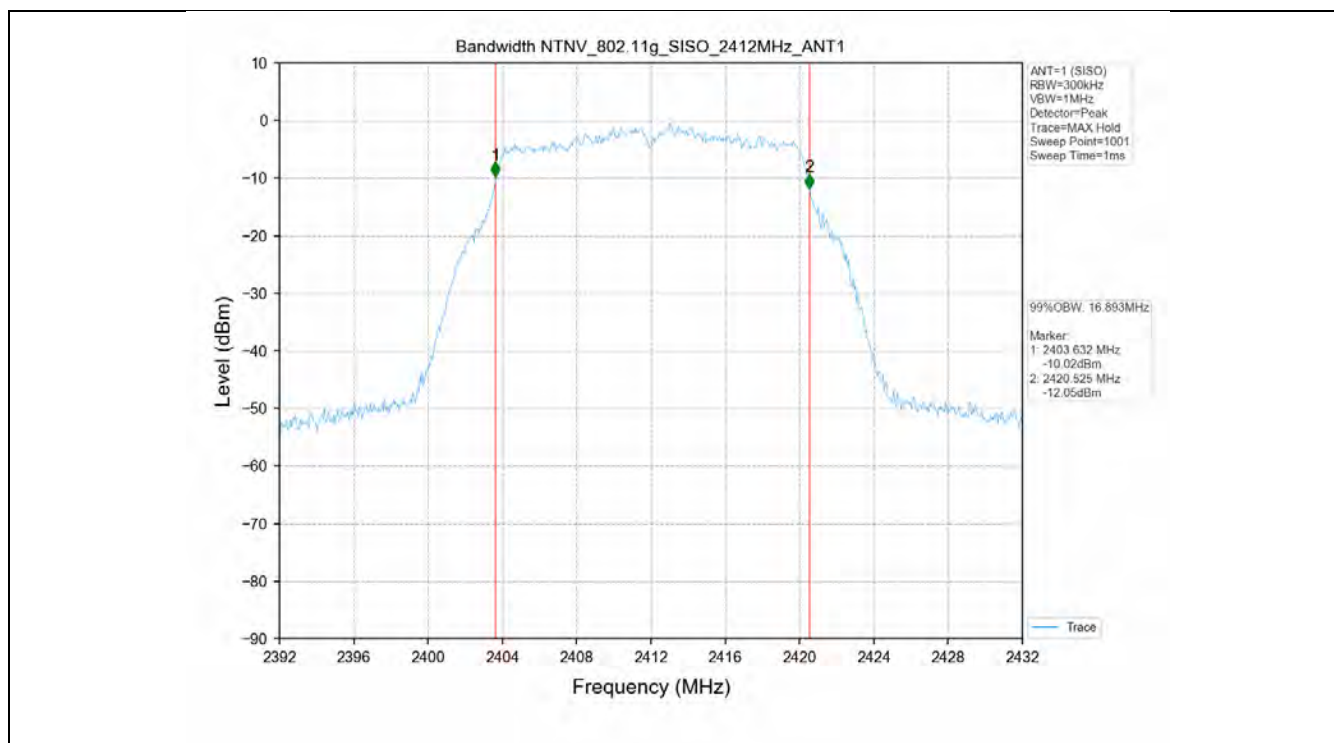


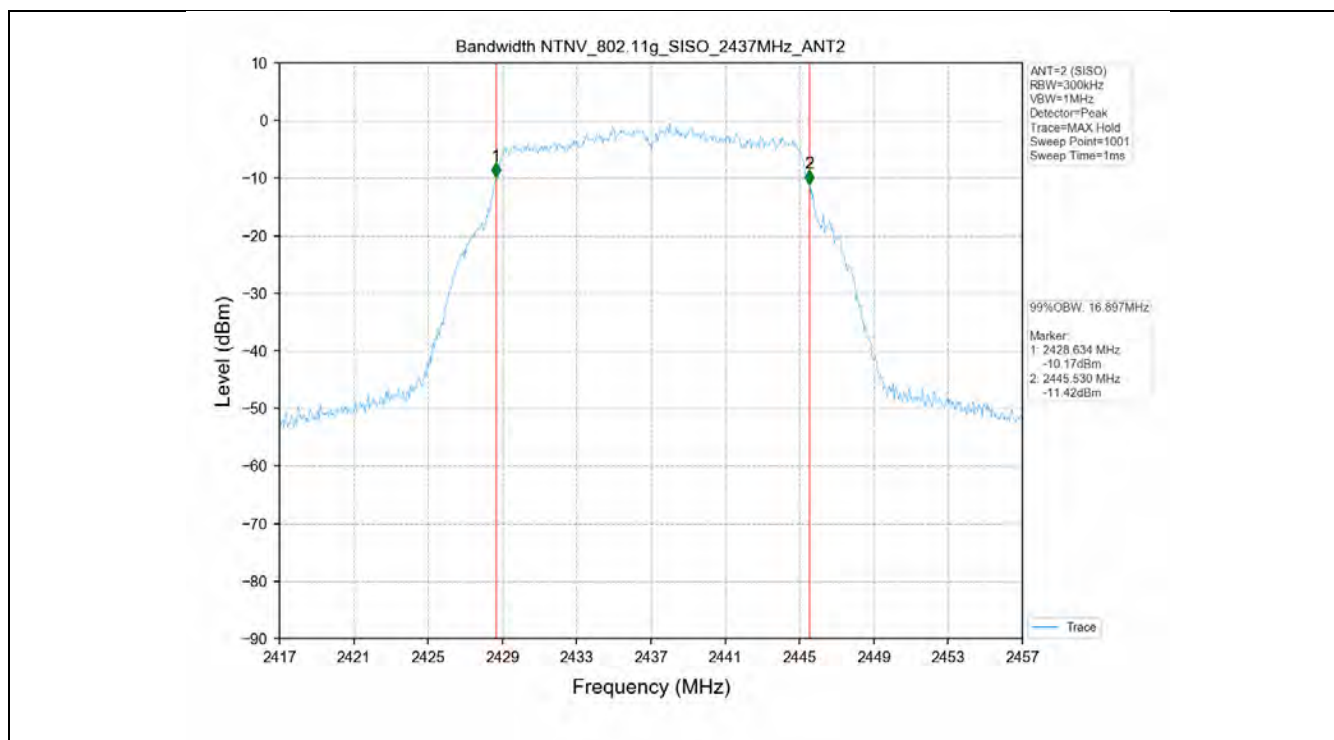
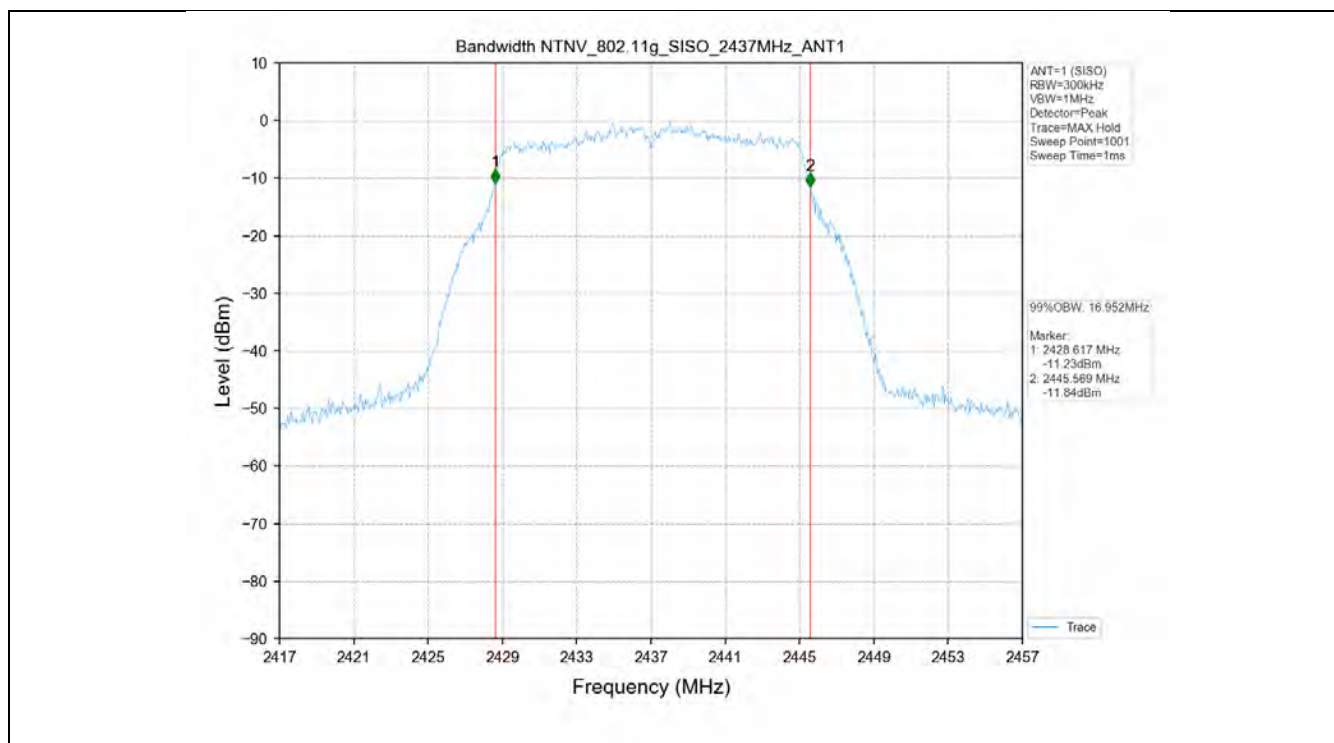
2.3 Test Graph - 99% Occupied Bandwidth

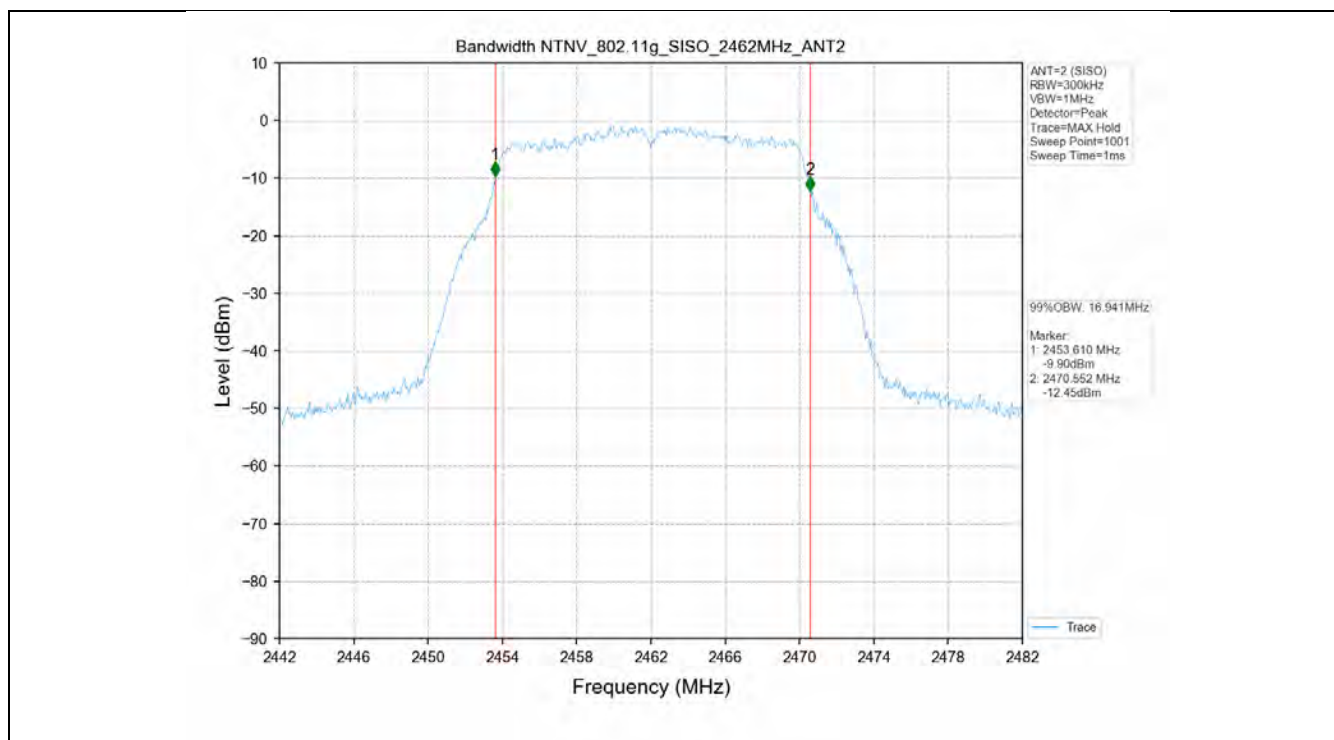
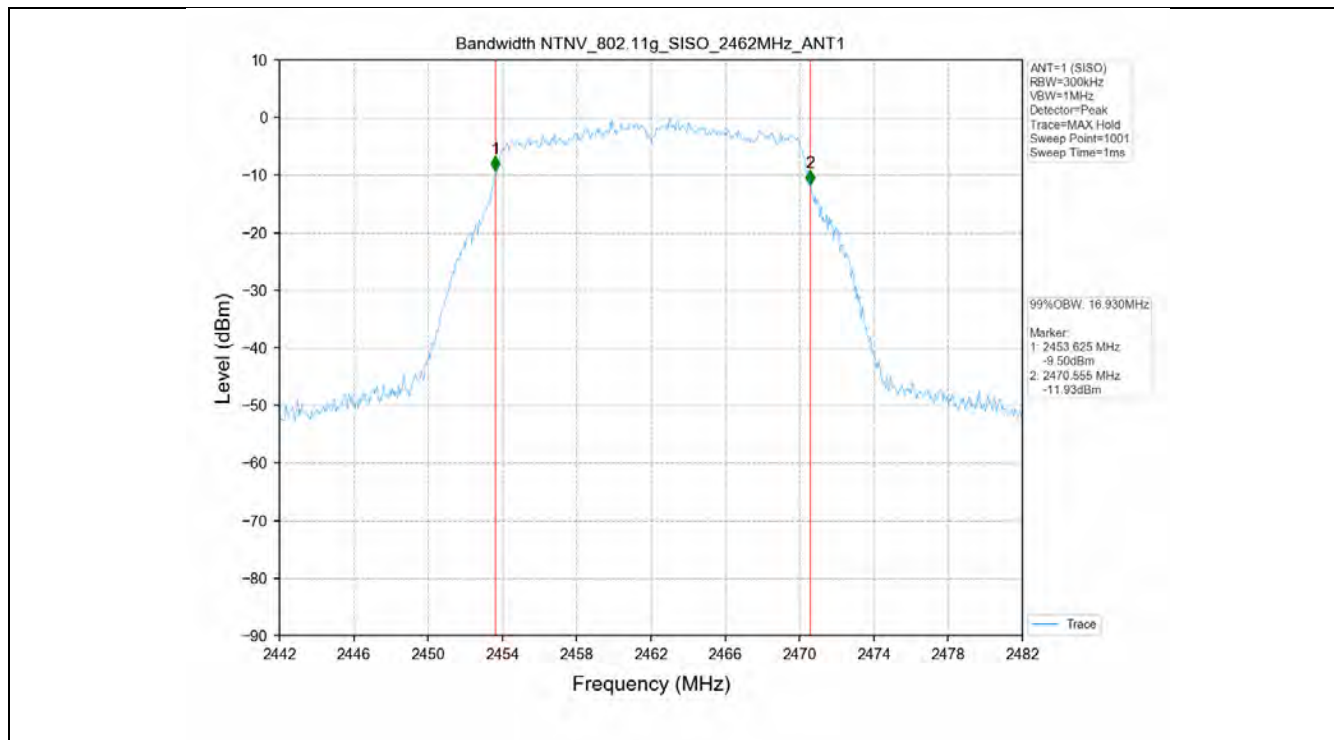


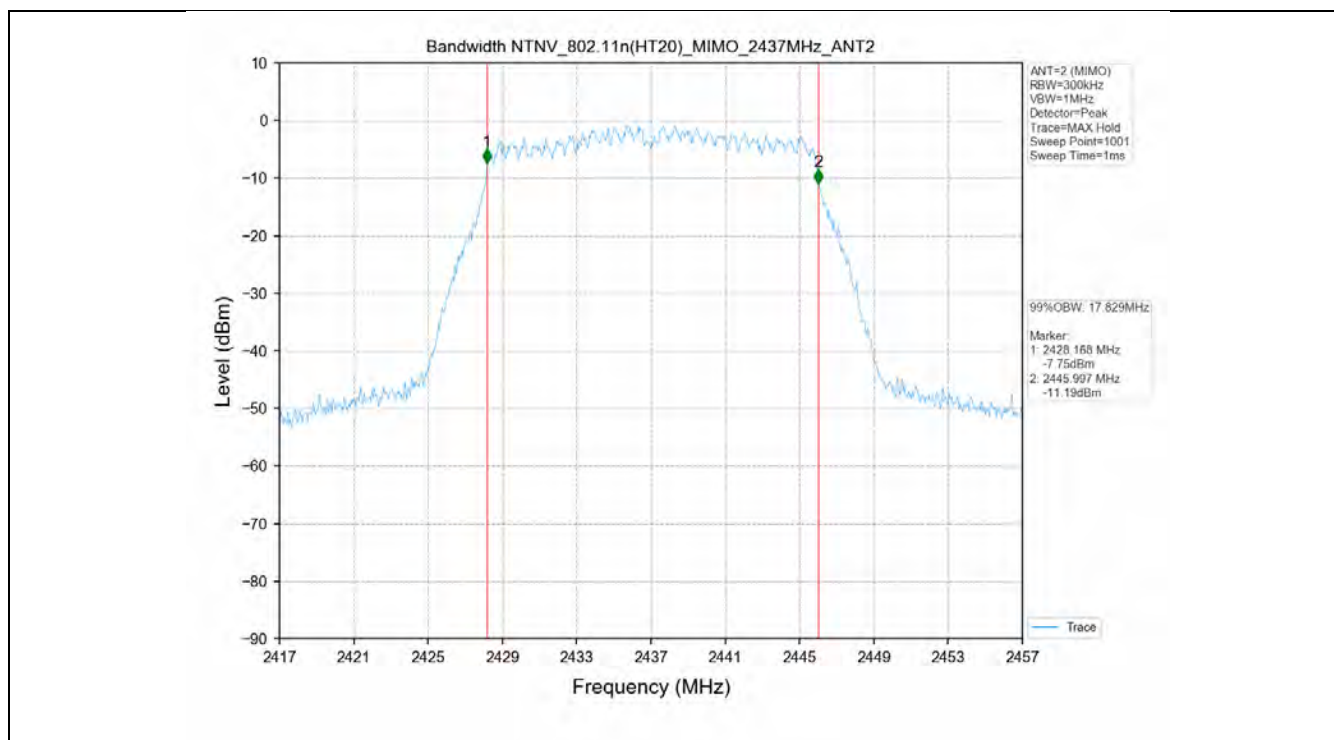
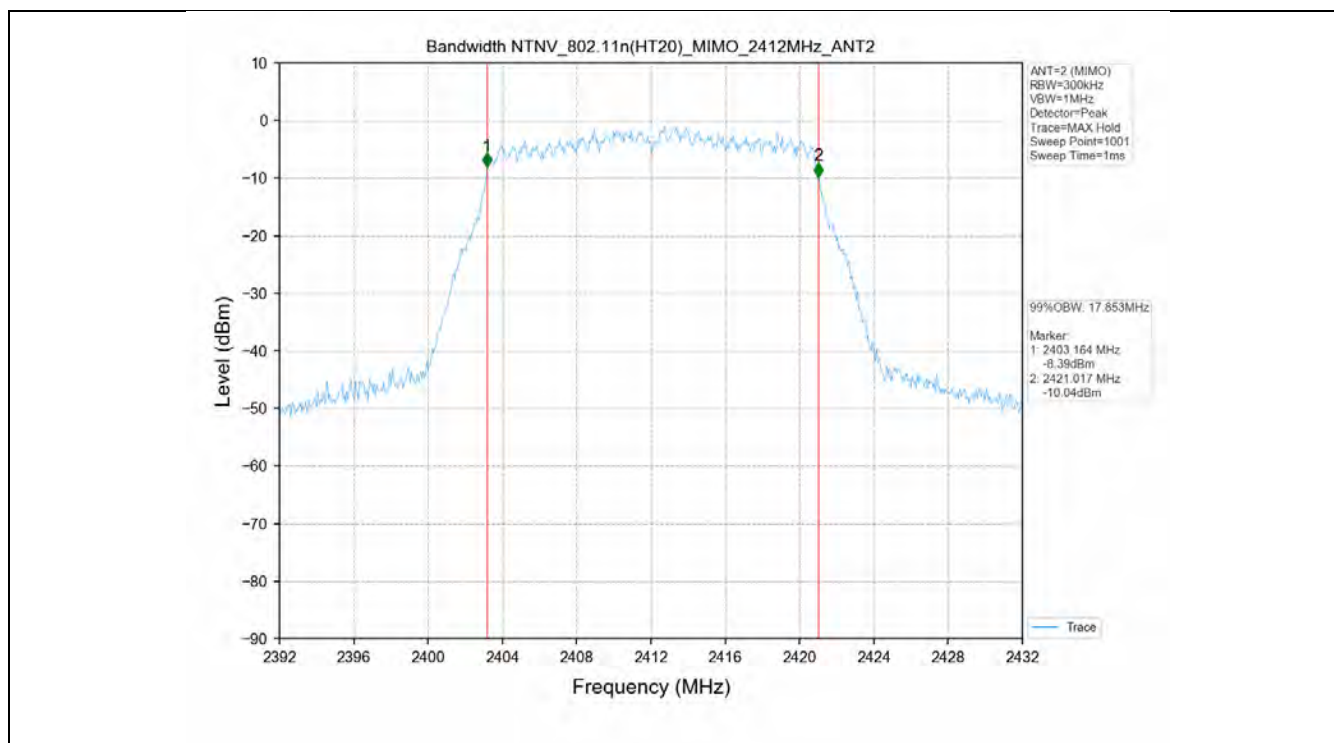


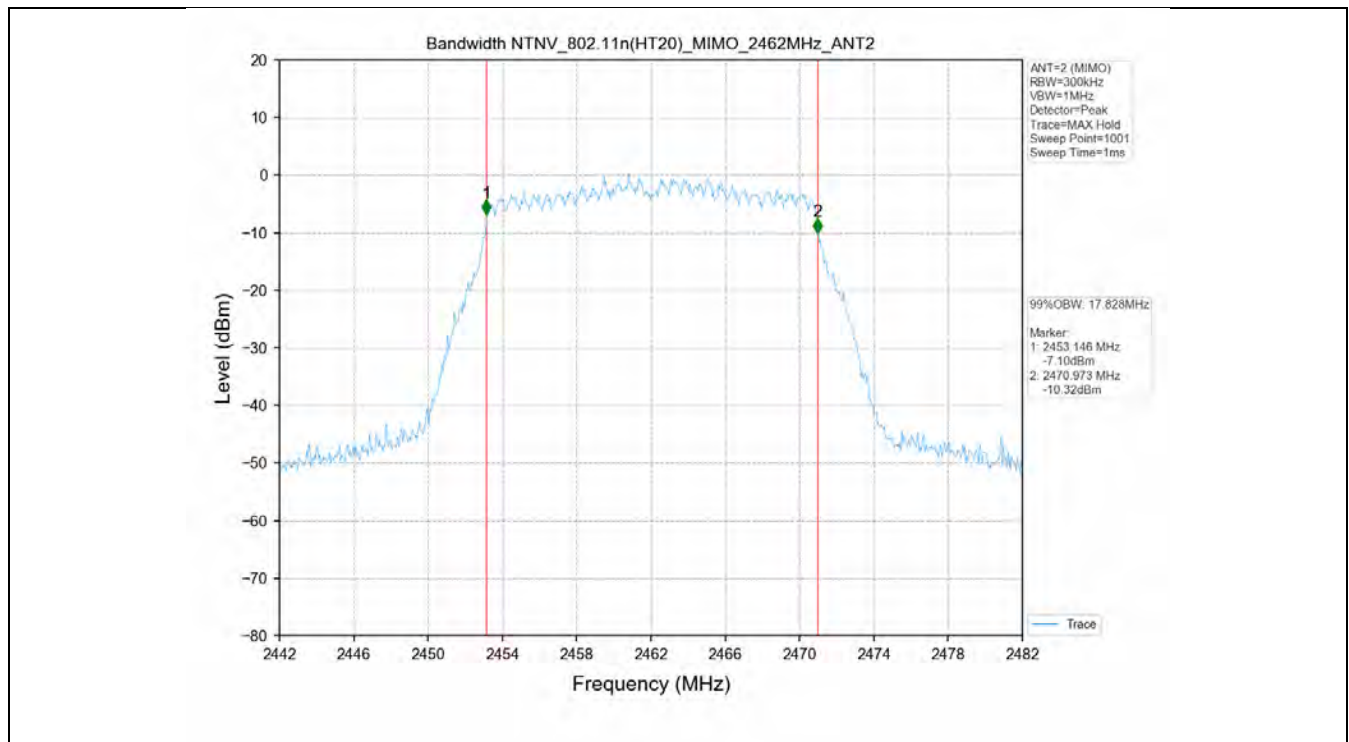












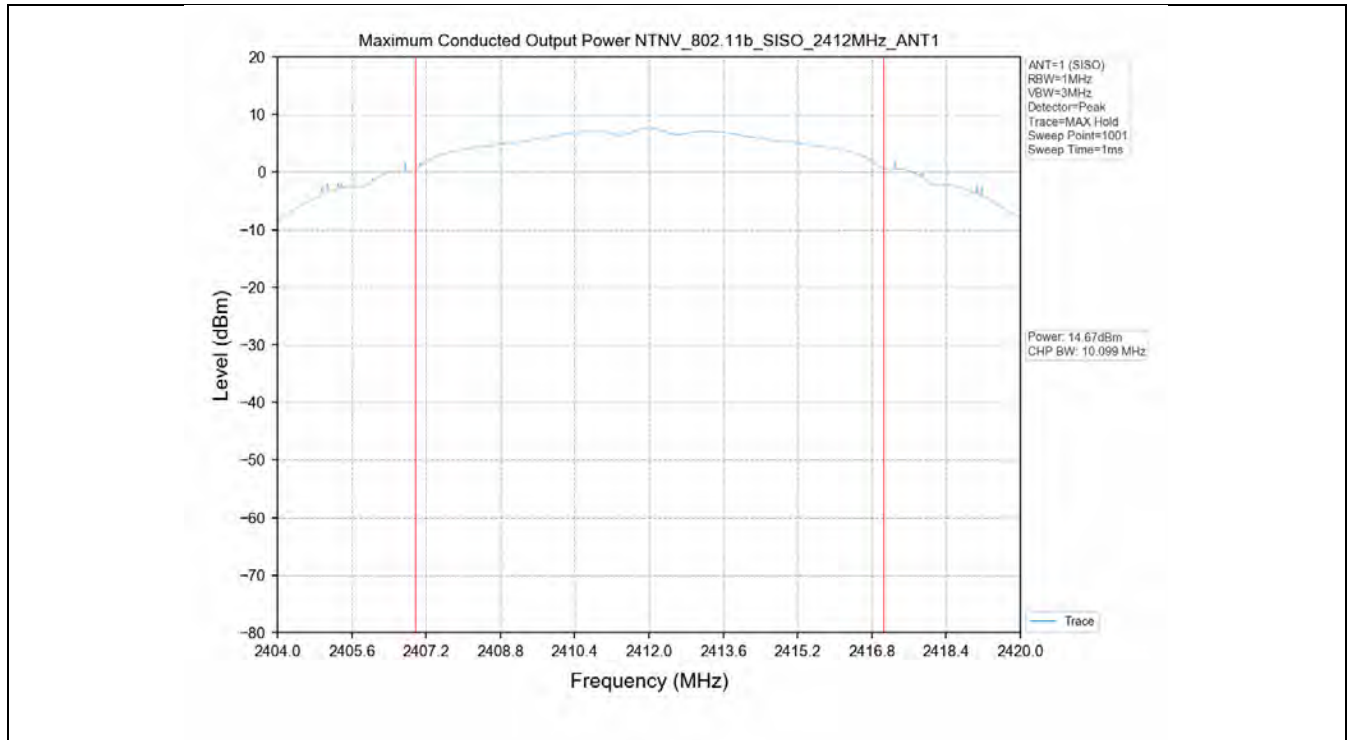
3. Maximum Conducted Output Power

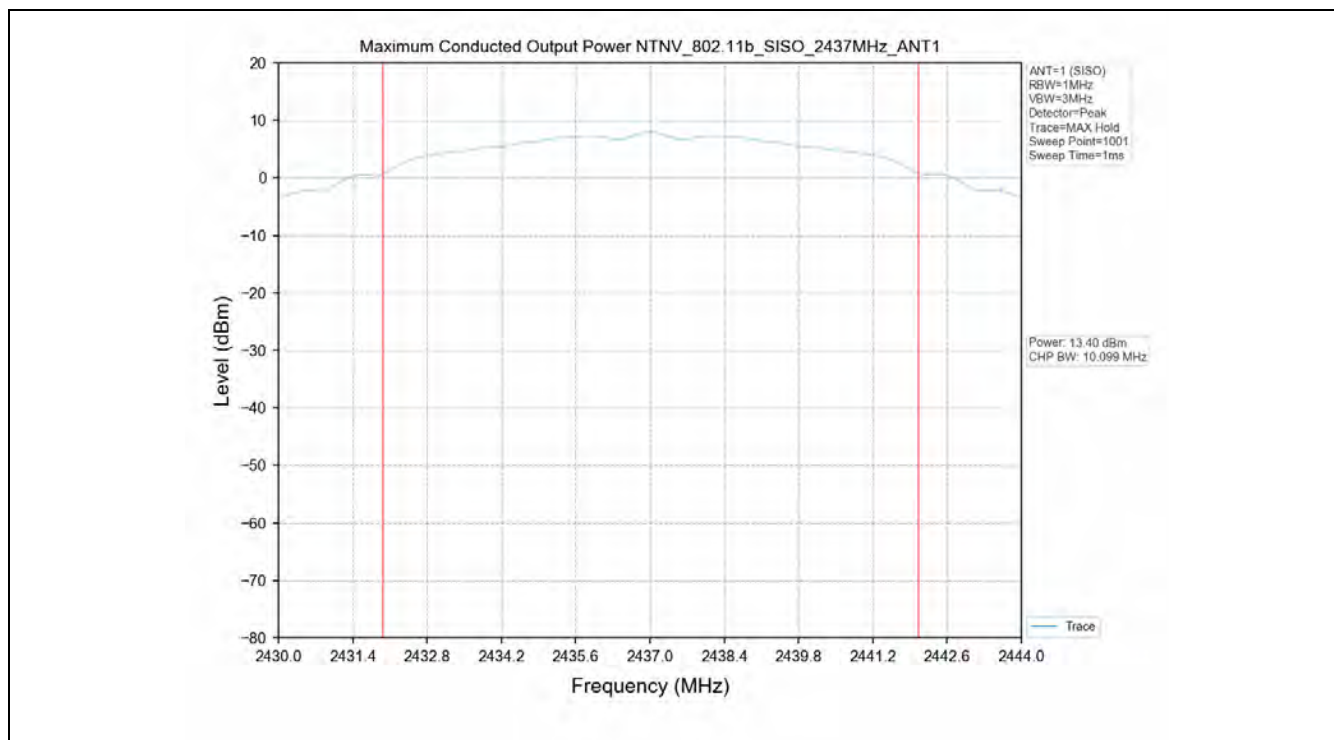
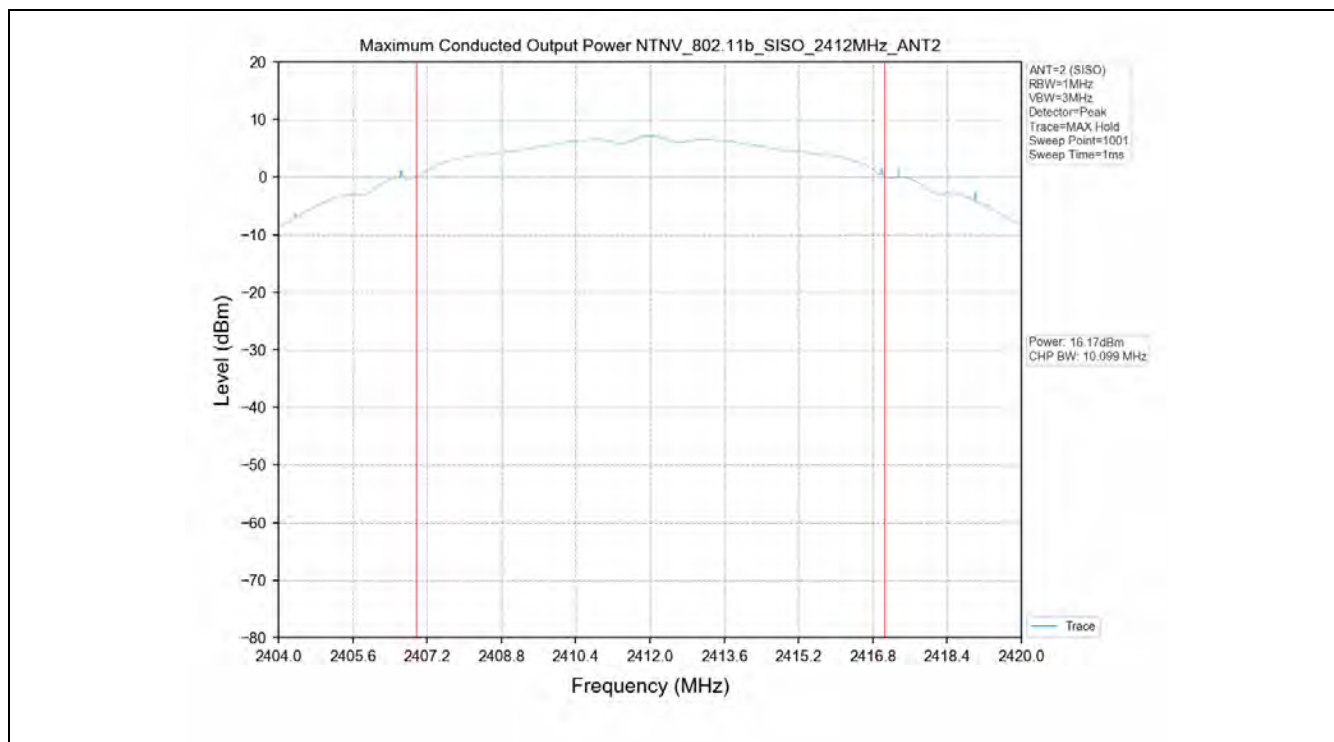
3.1 Test Result

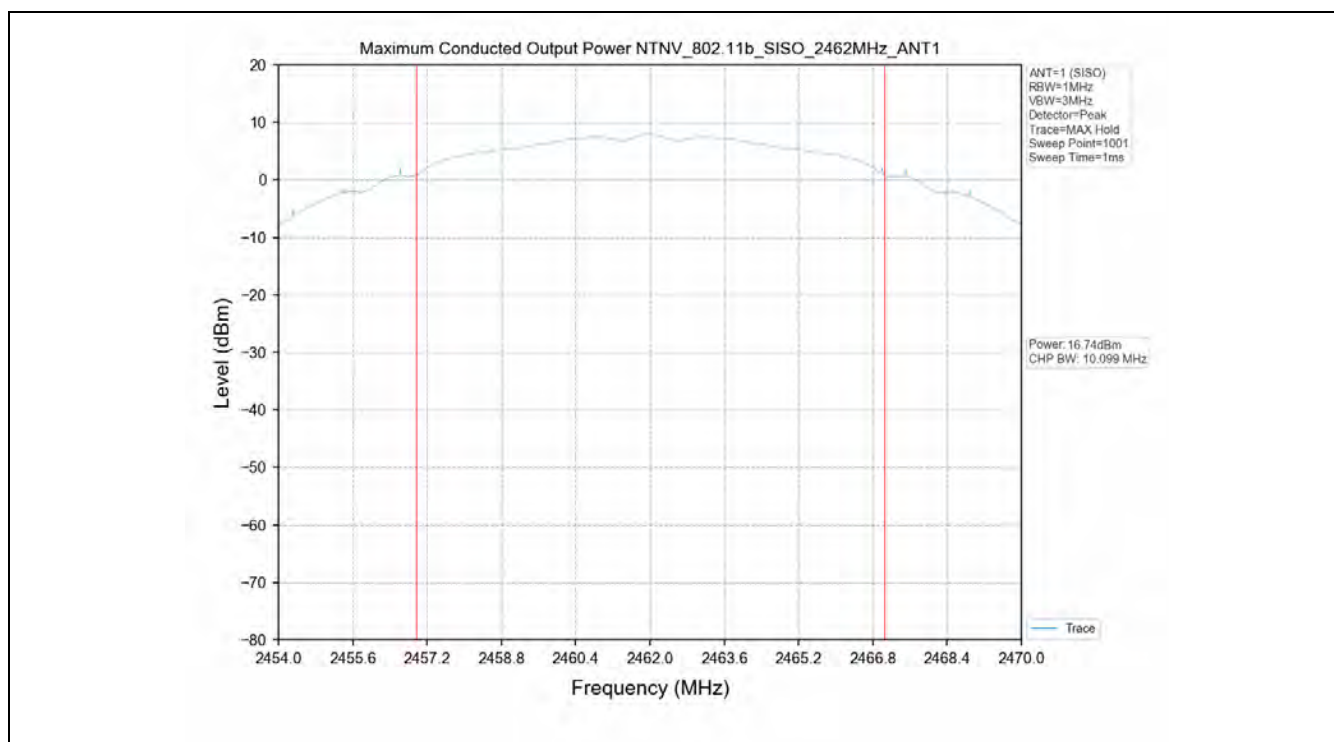
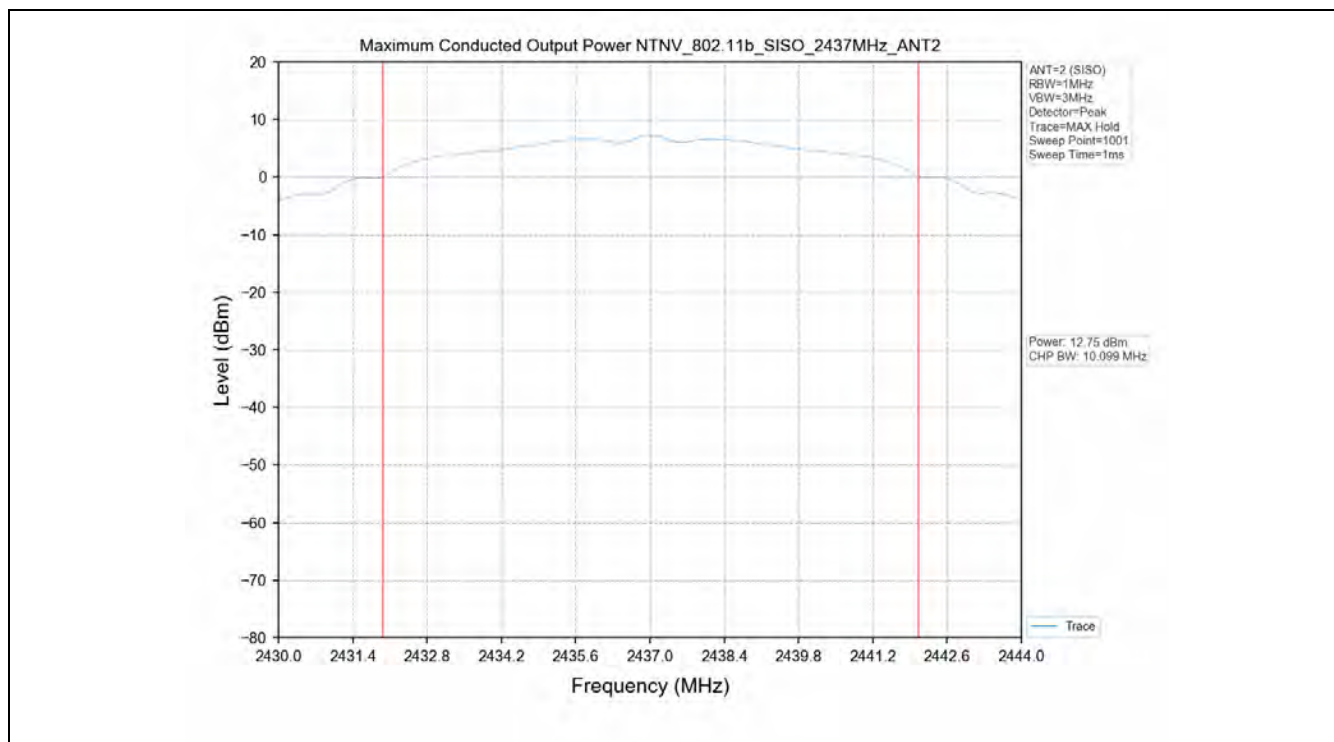
Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	14.67	16.17	/	30	PASS
	2437	SISO	13.40	12.75	/	30	PASS
	2462	SISO	16.74	16.38	/	30	PASS
802.11g	2412	SISO	14.67	13.91	/	30	PASS
	2437	SISO	15.01	14.65	/	30	PASS
	2462	SISO	15.08	14.93	/	30	PASS
802.11n(HT20)	2412	MIMO	14.62	14.57	17.61	30	PASS
	2437	MIMO	14.85	14.91	17.89	30	PASS
	2462	MIMO	15.18	15.18	18.19	30	PASS

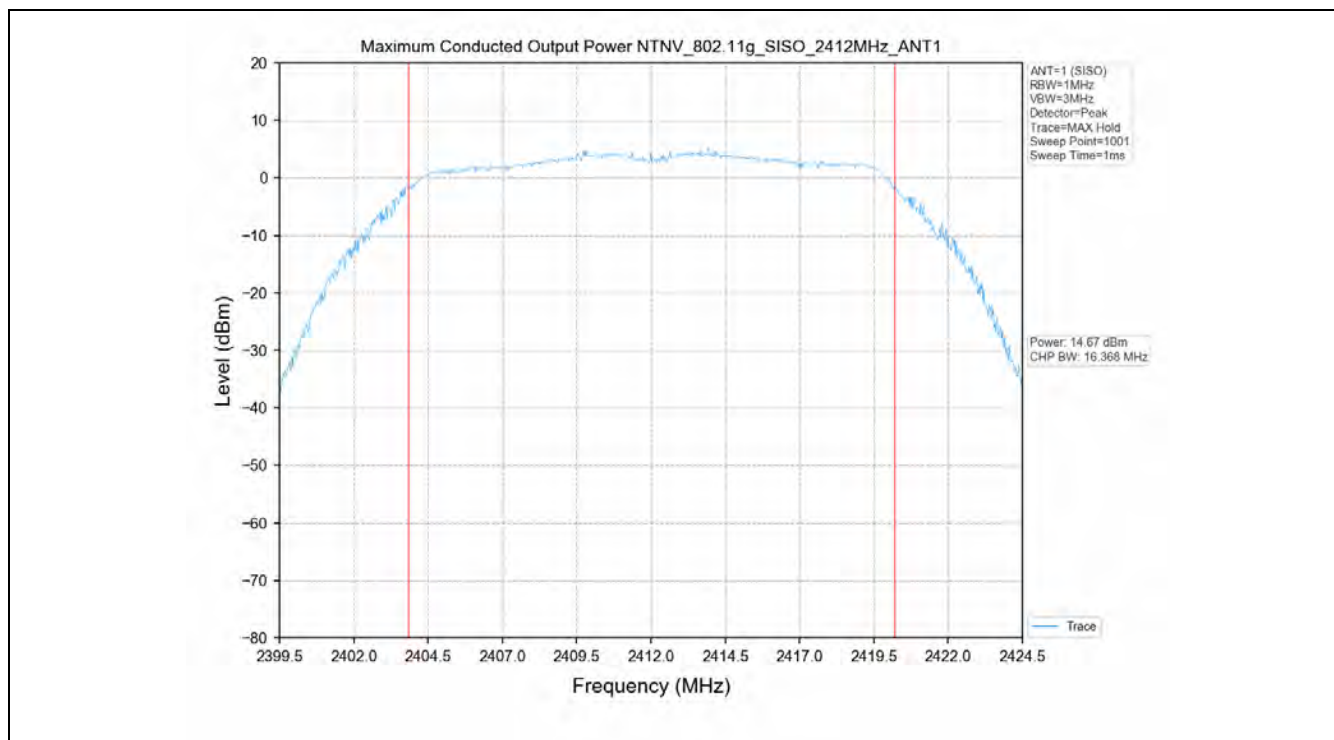
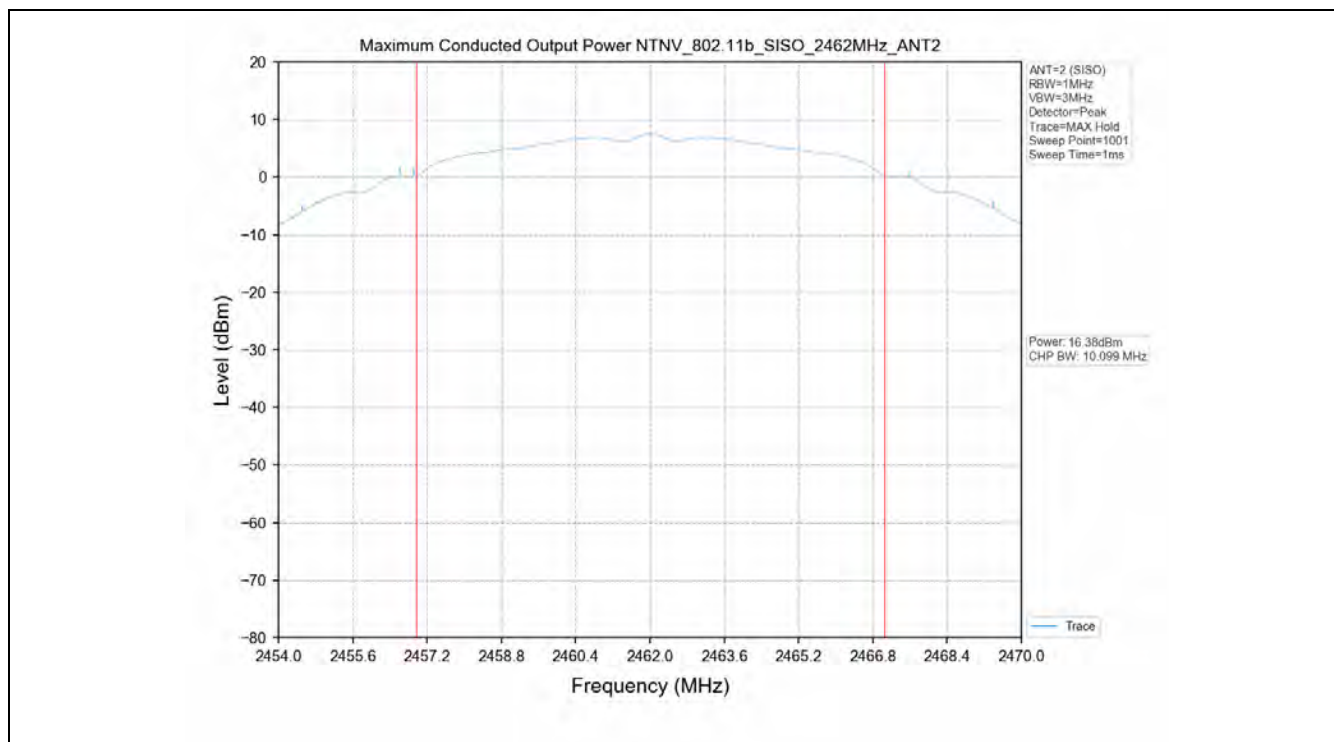


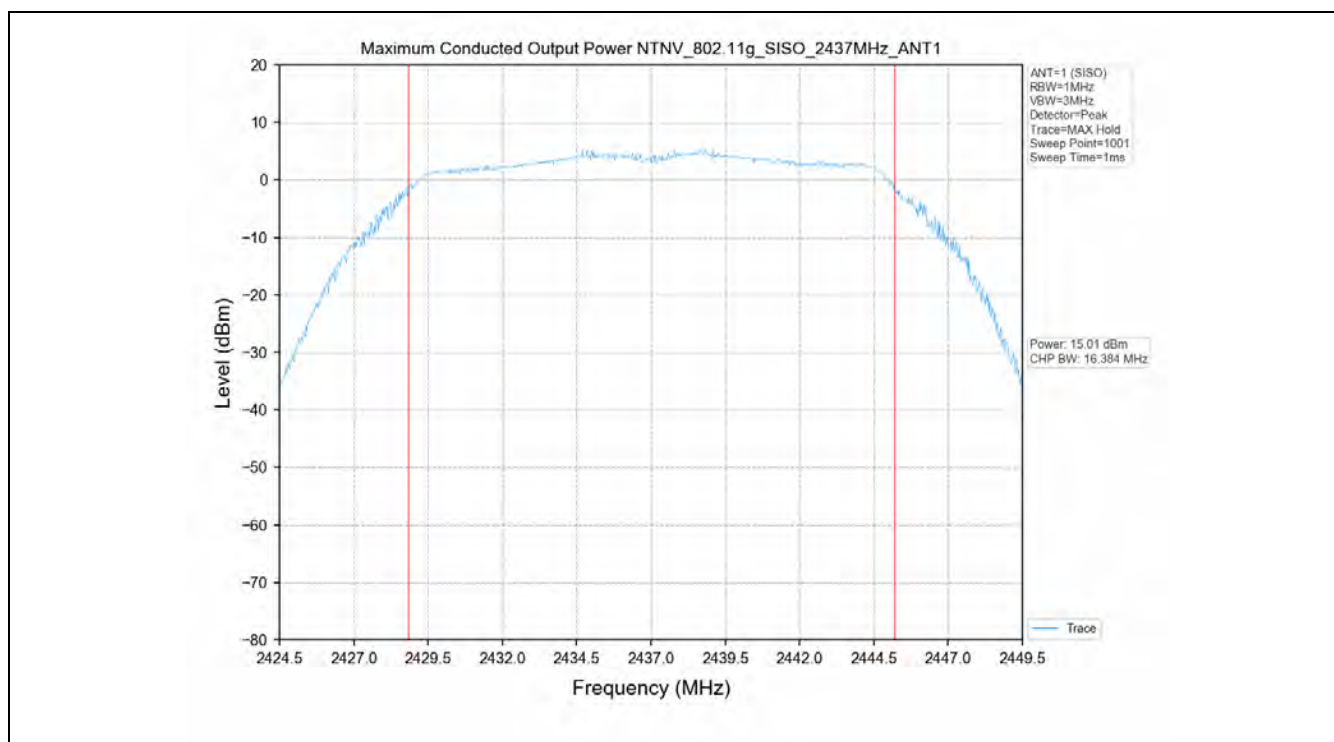
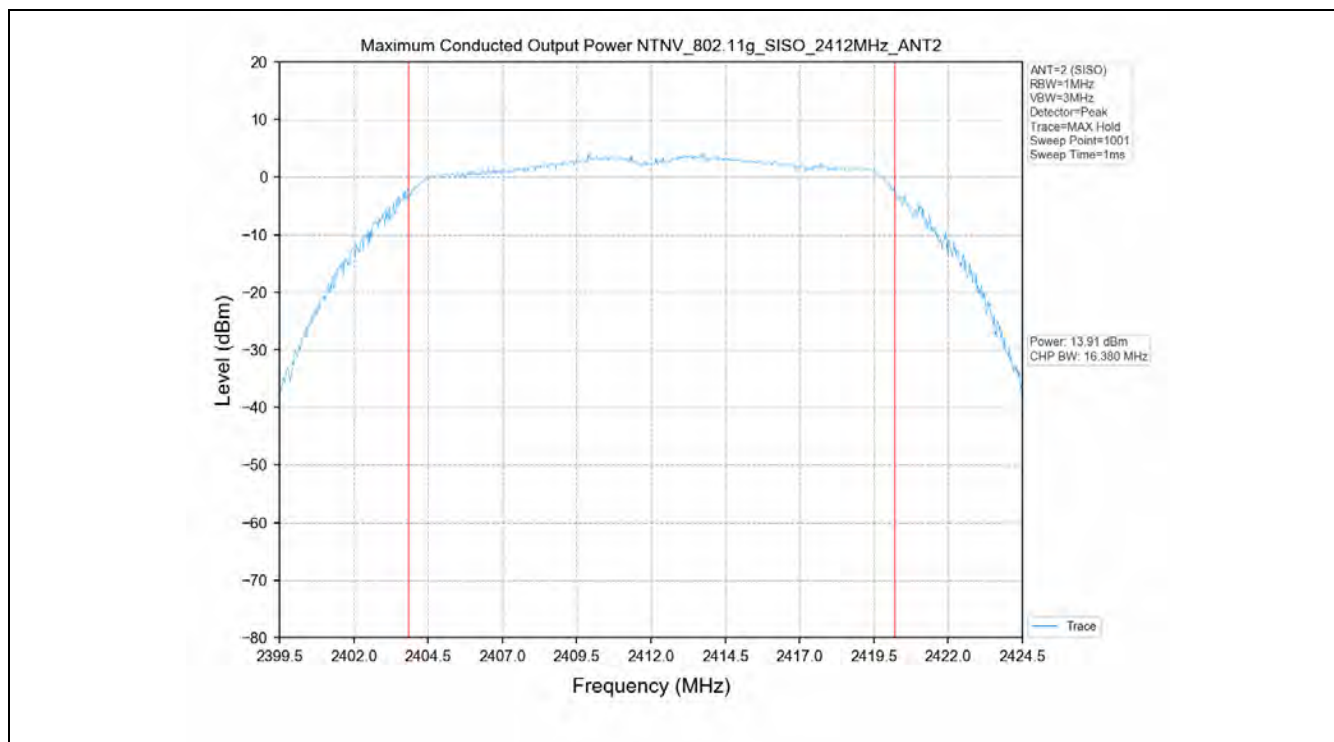
3.2 Test Graph





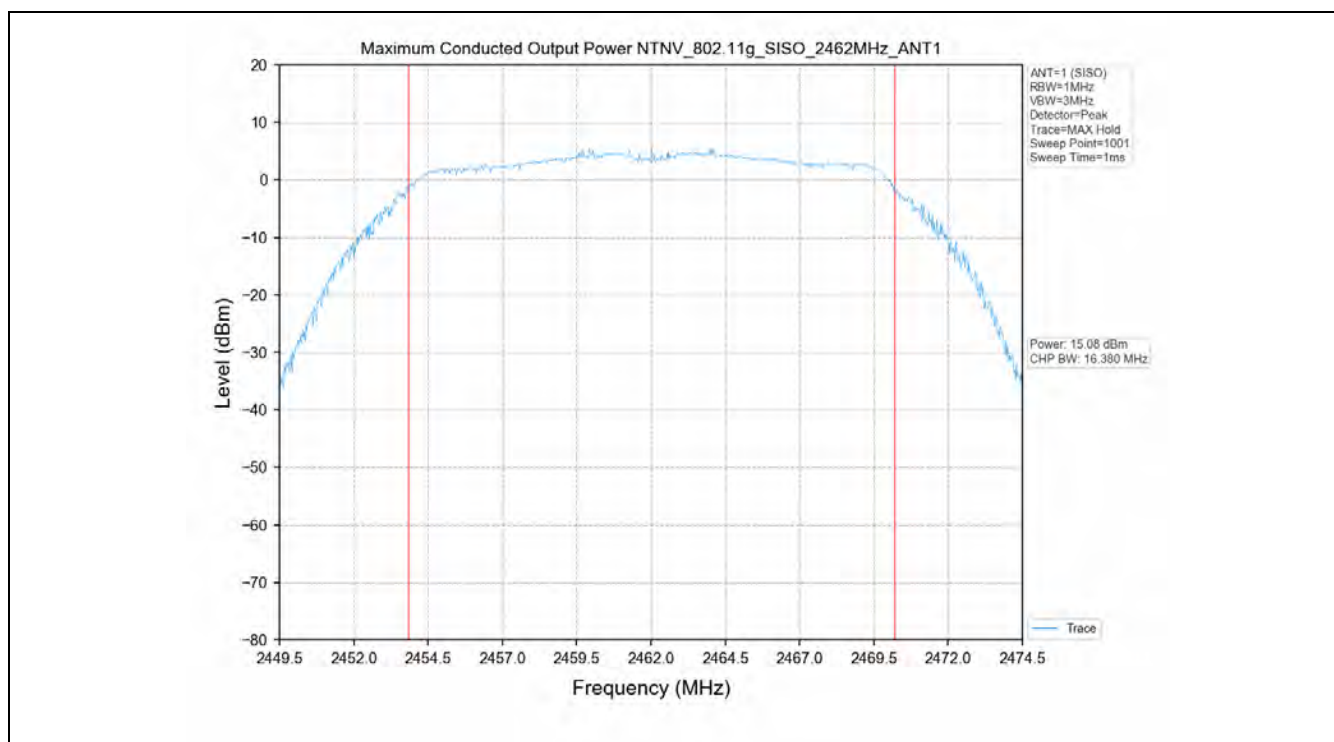
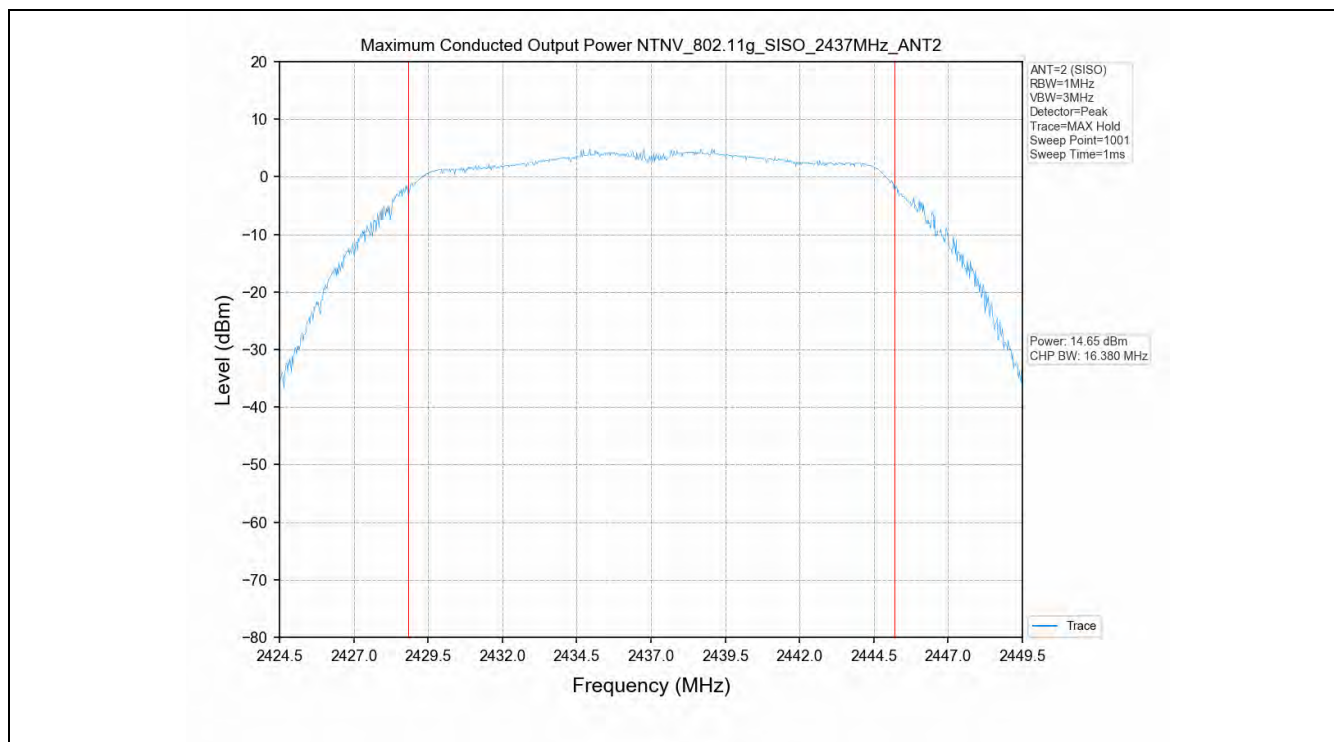


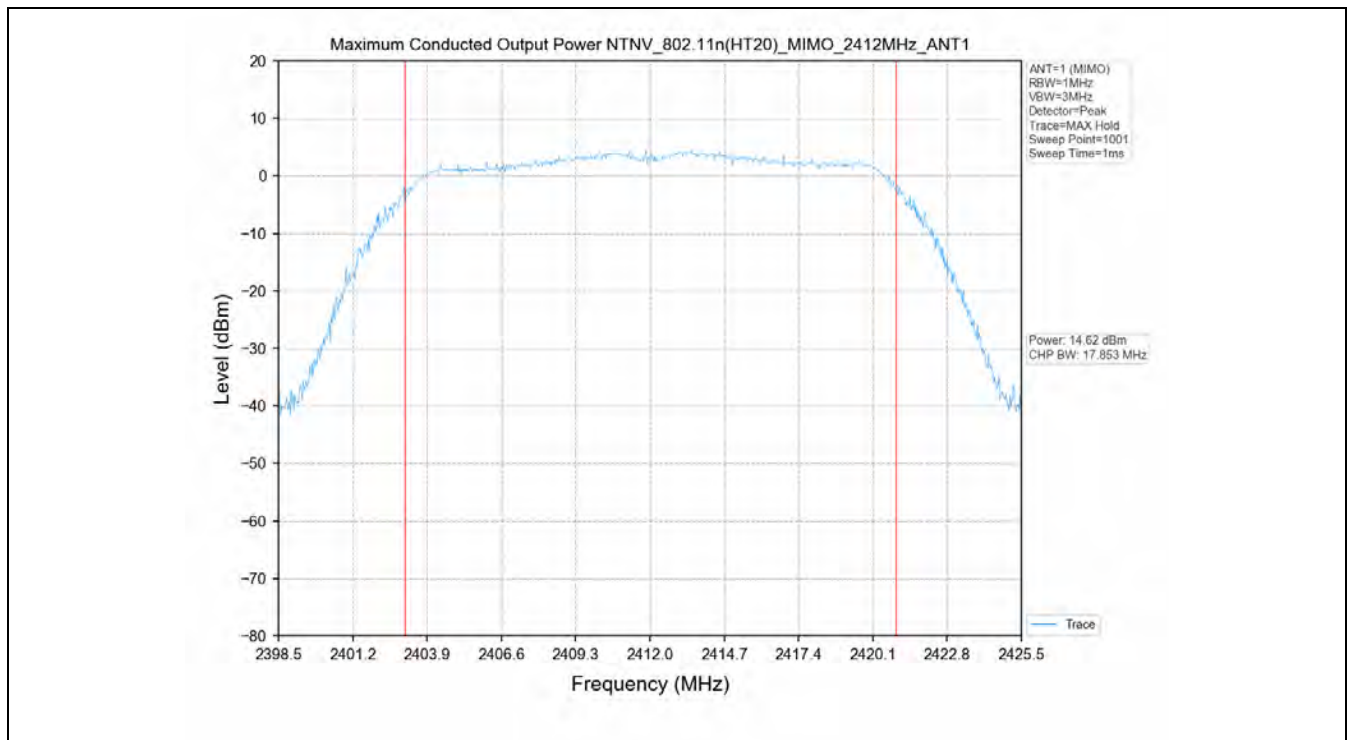
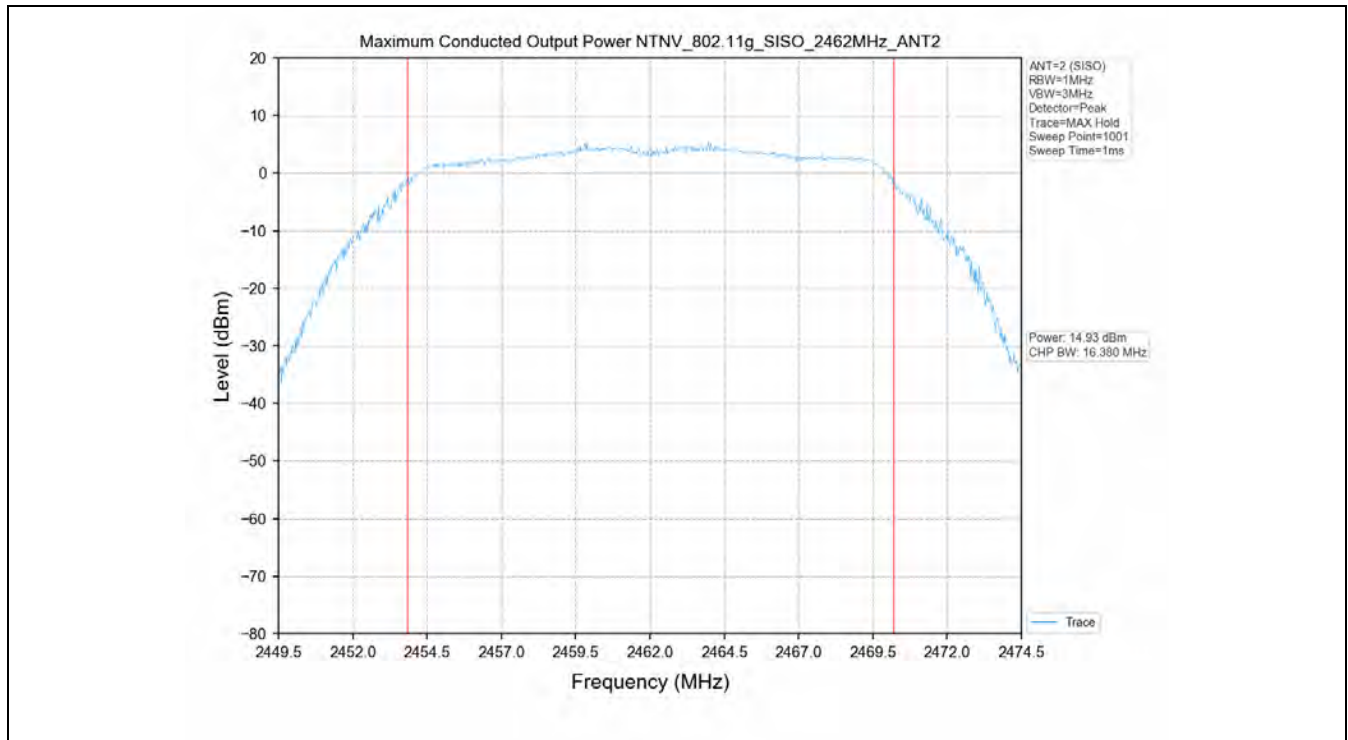






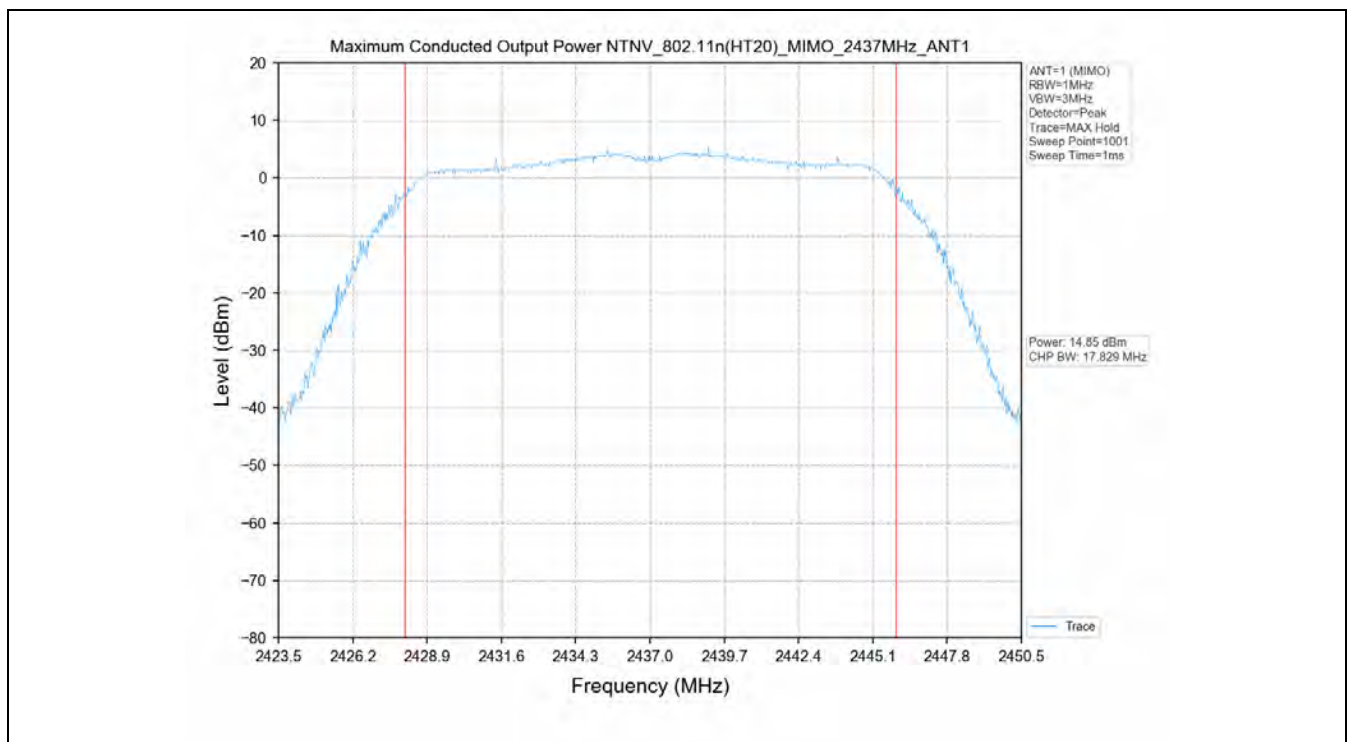
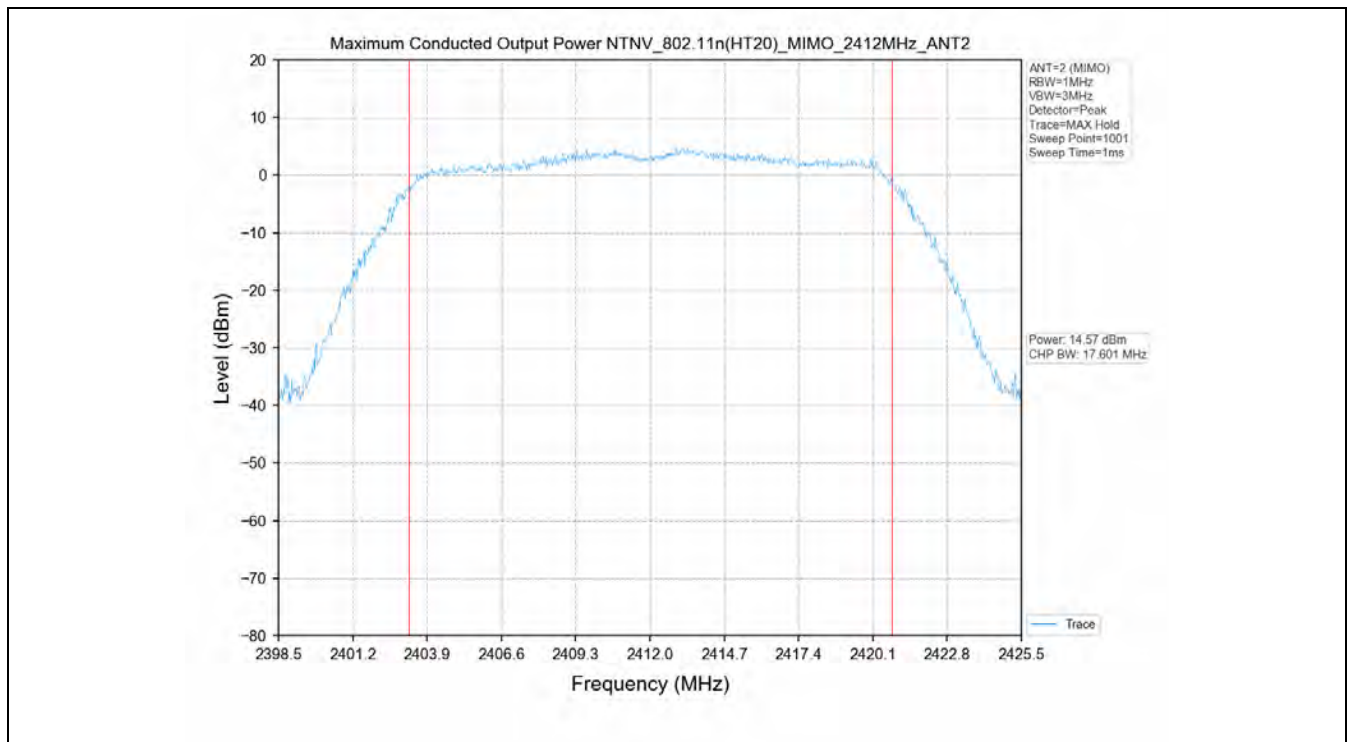
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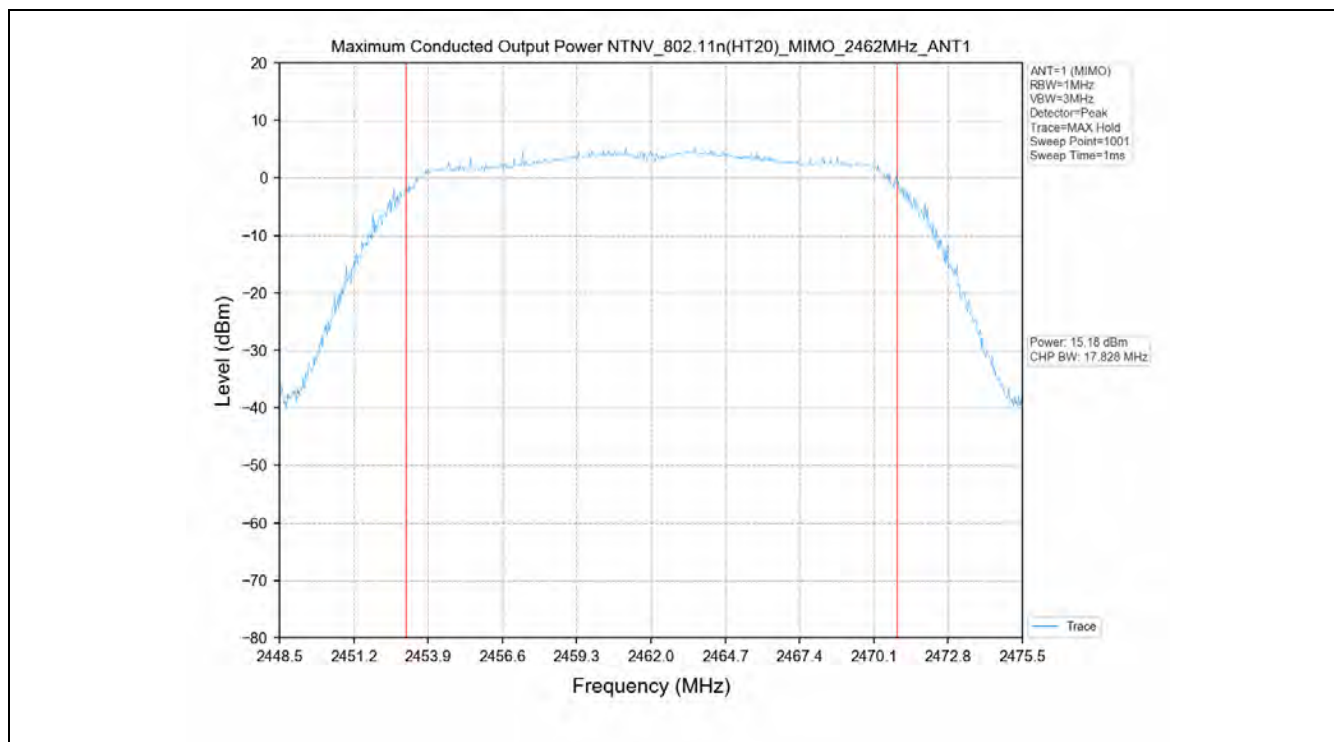
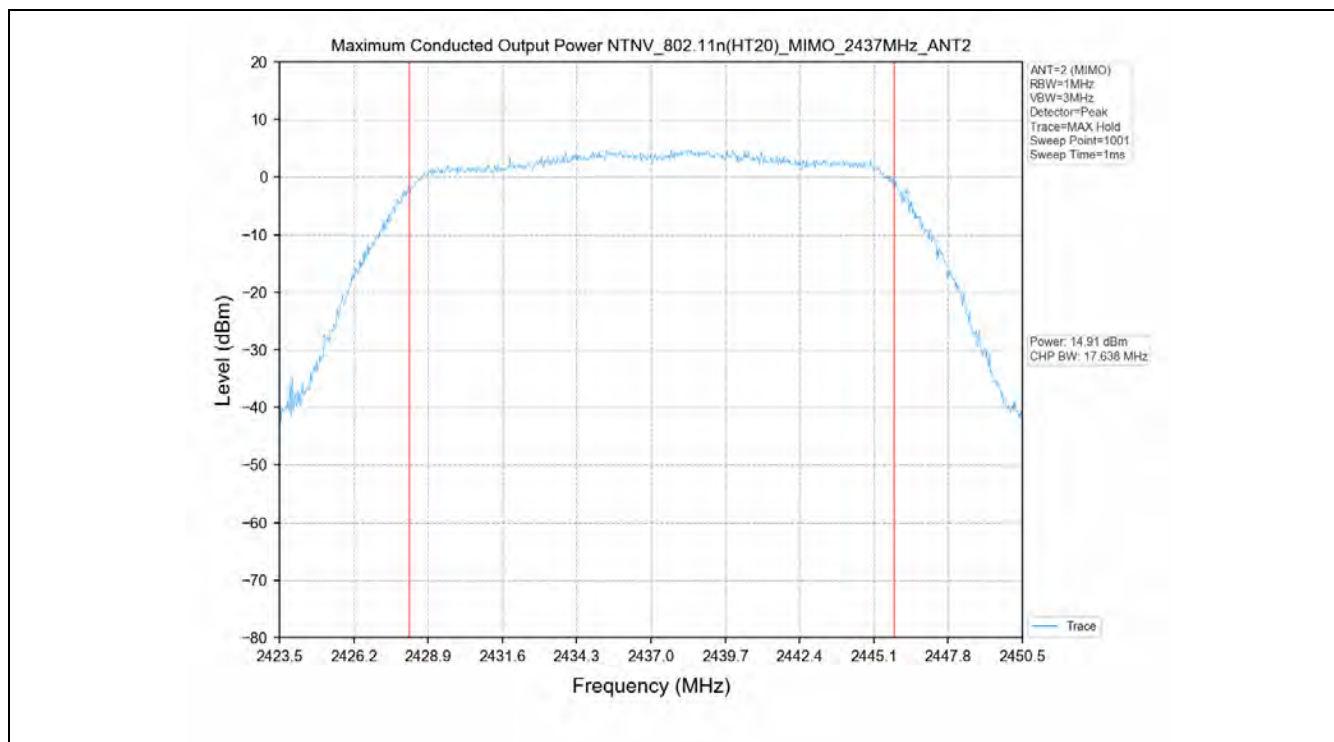


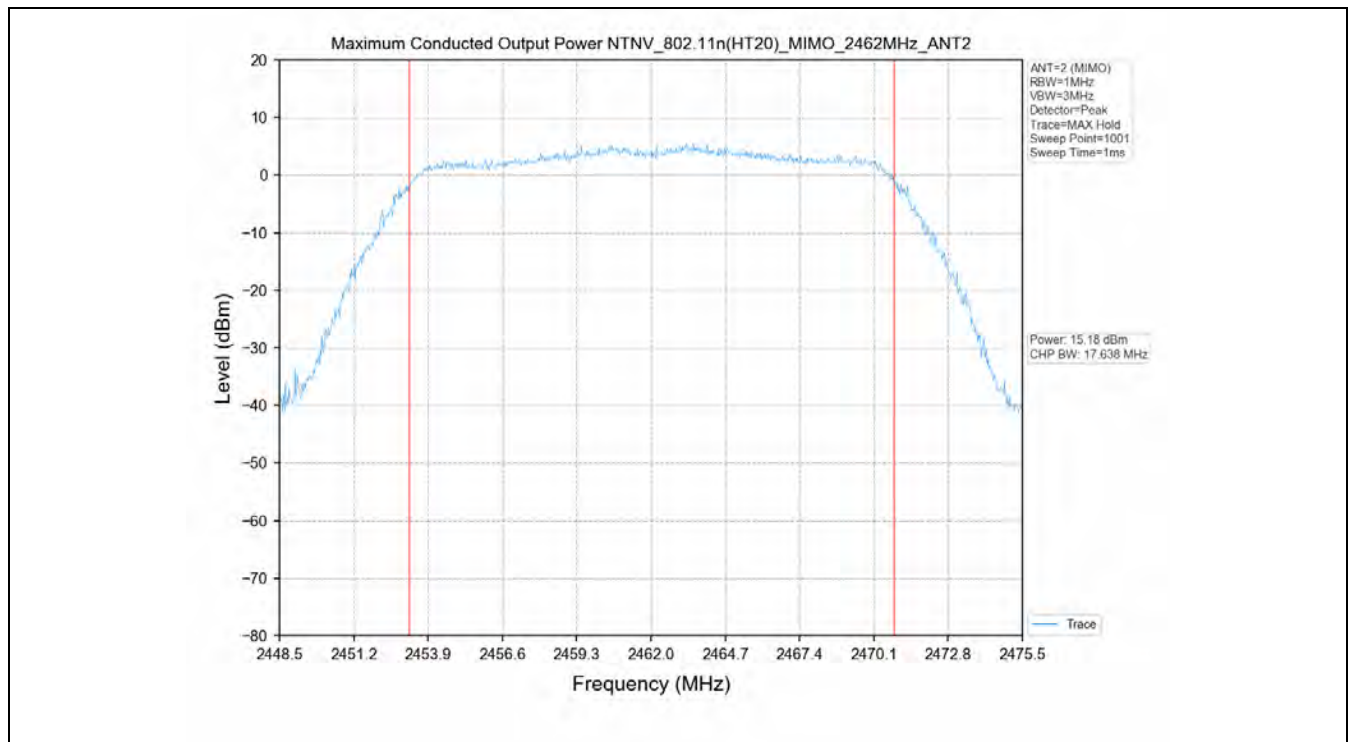




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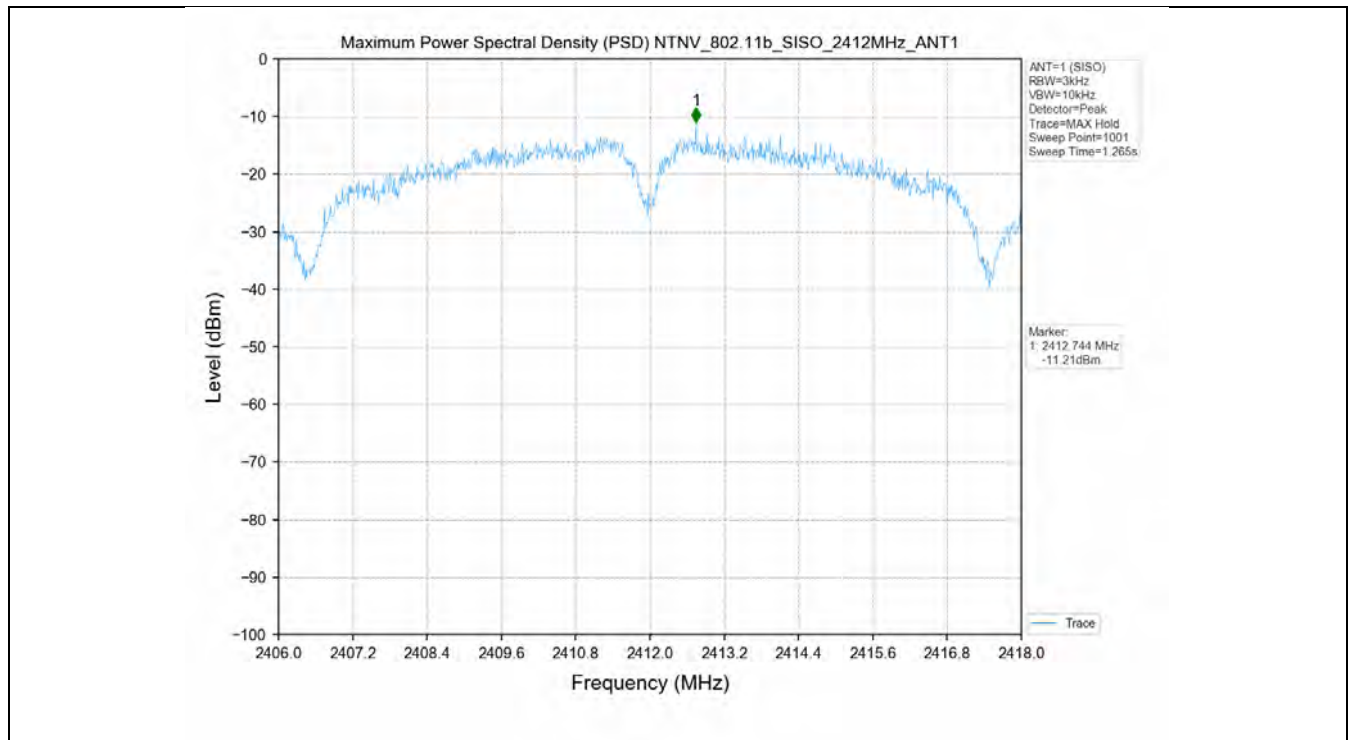
4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-11.21	-8.69	/	≤8	PASS
	2437	SISO	-10.75	-12.03	/	≤8	PASS
	2462	SISO	-9.23	-10.32	/	≤8	PASS
802.11g	2412	SISO	-17.07	-18.50	/	≤8	PASS
	2437	SISO	-16.80	-16.68	/	≤8	PASS
	2462	SISO	-16.65	-16.70	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-17.35	-17.74	-15.52	≤8	PASS
	2437	MIMO	-17.67	-17.37	-15.29	≤8	PASS
	2462	MIMO	-17.81	-17.08	-15.22	≤8	PASS

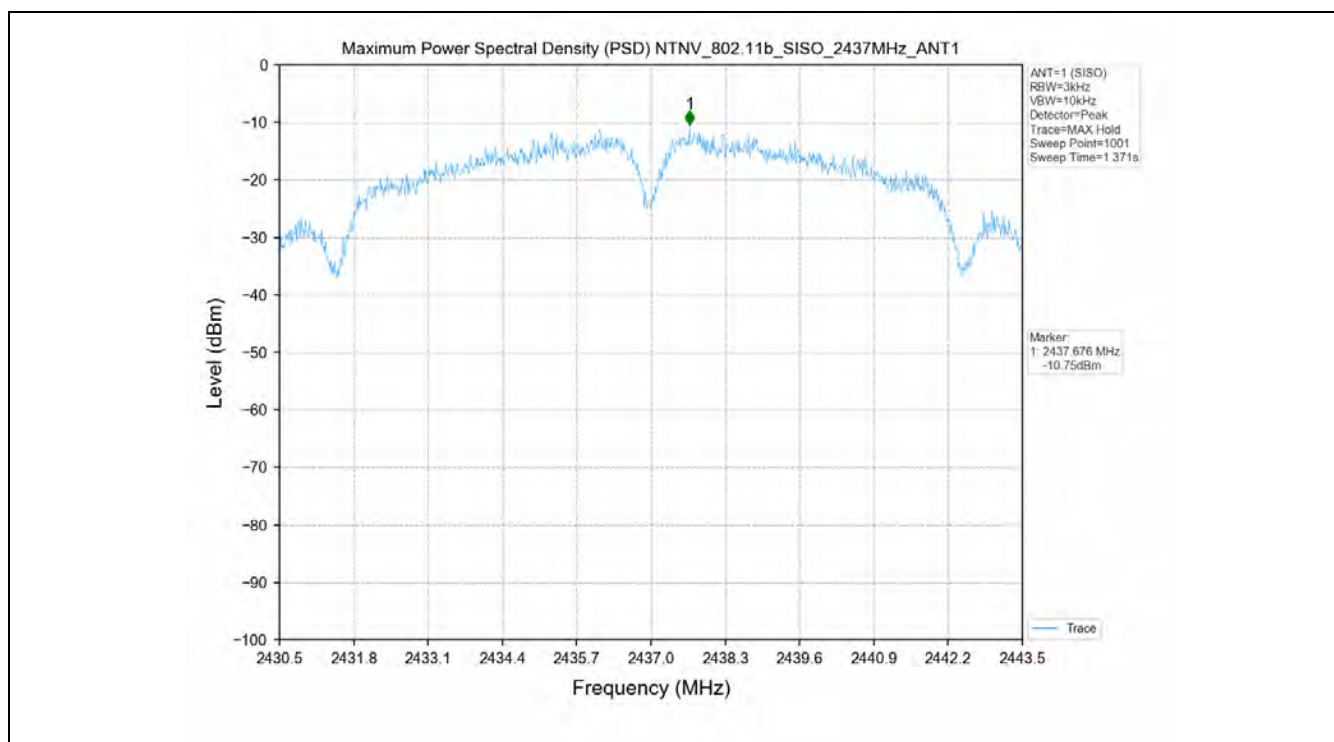
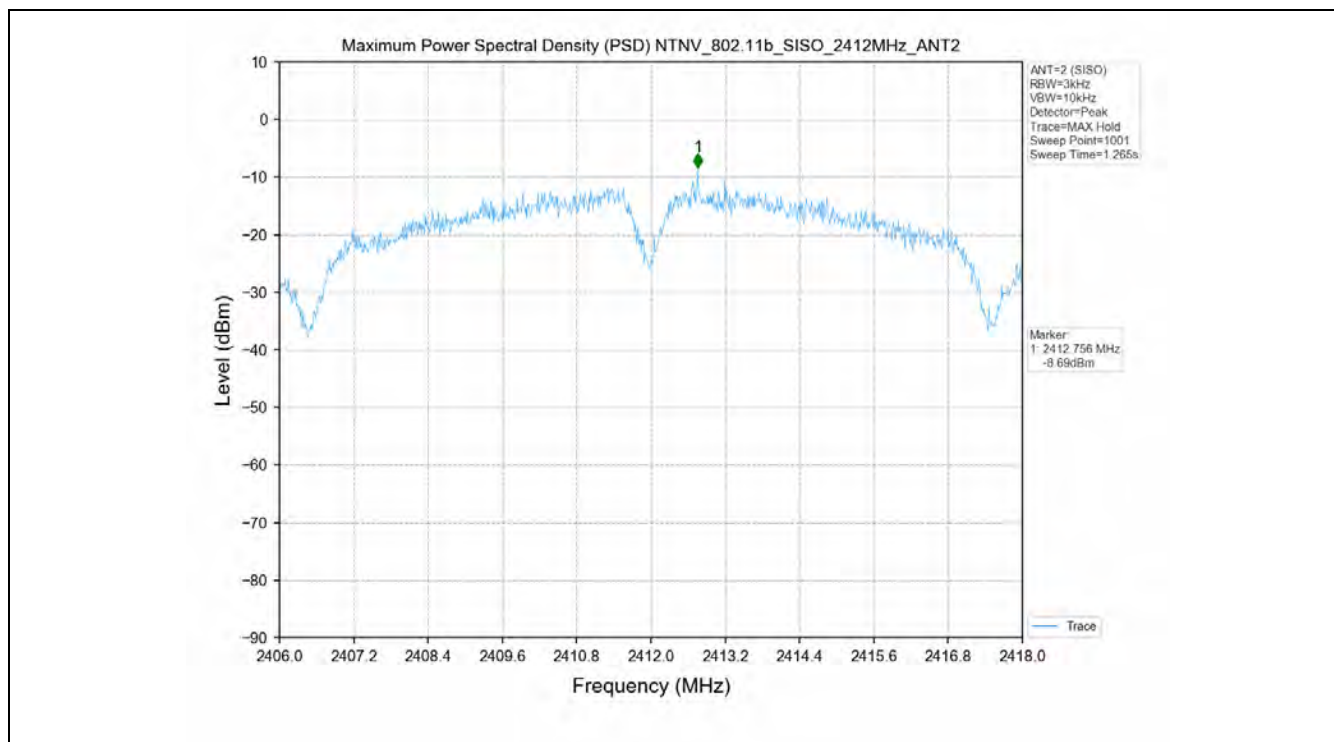


4.2 Test Graph



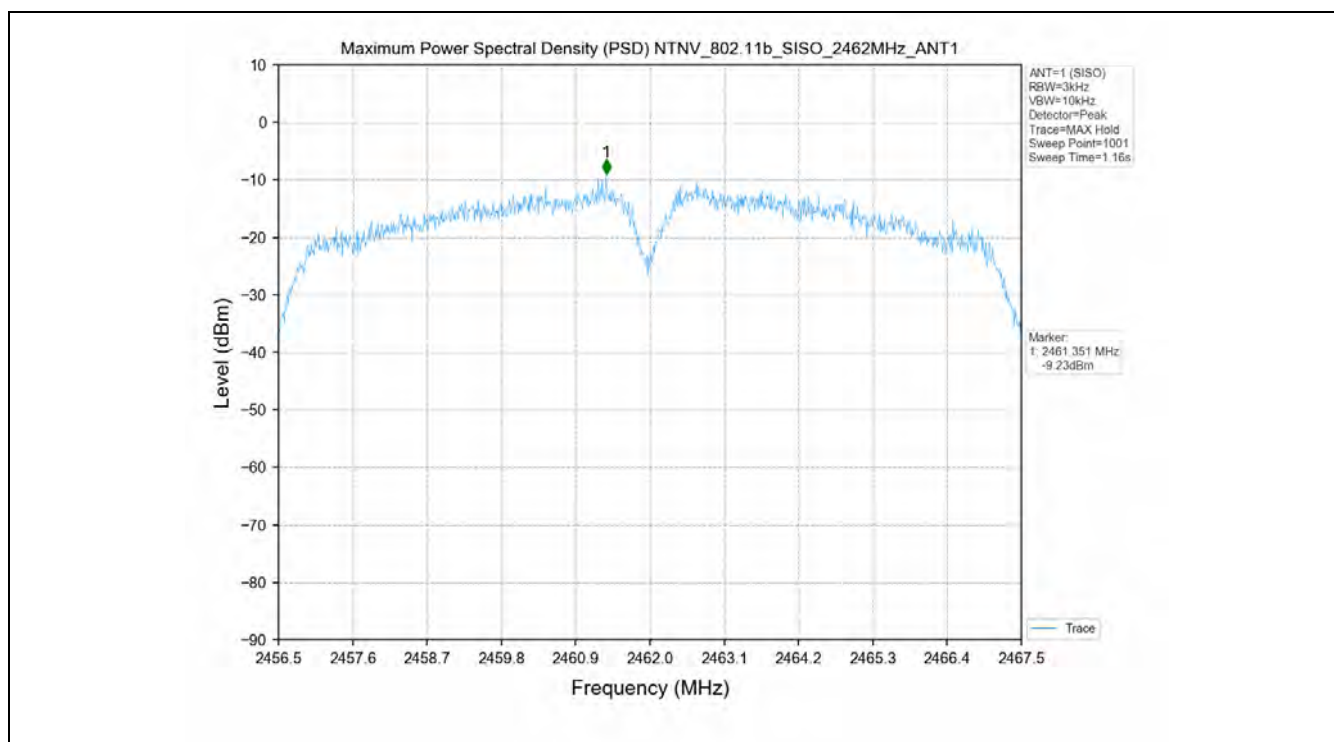
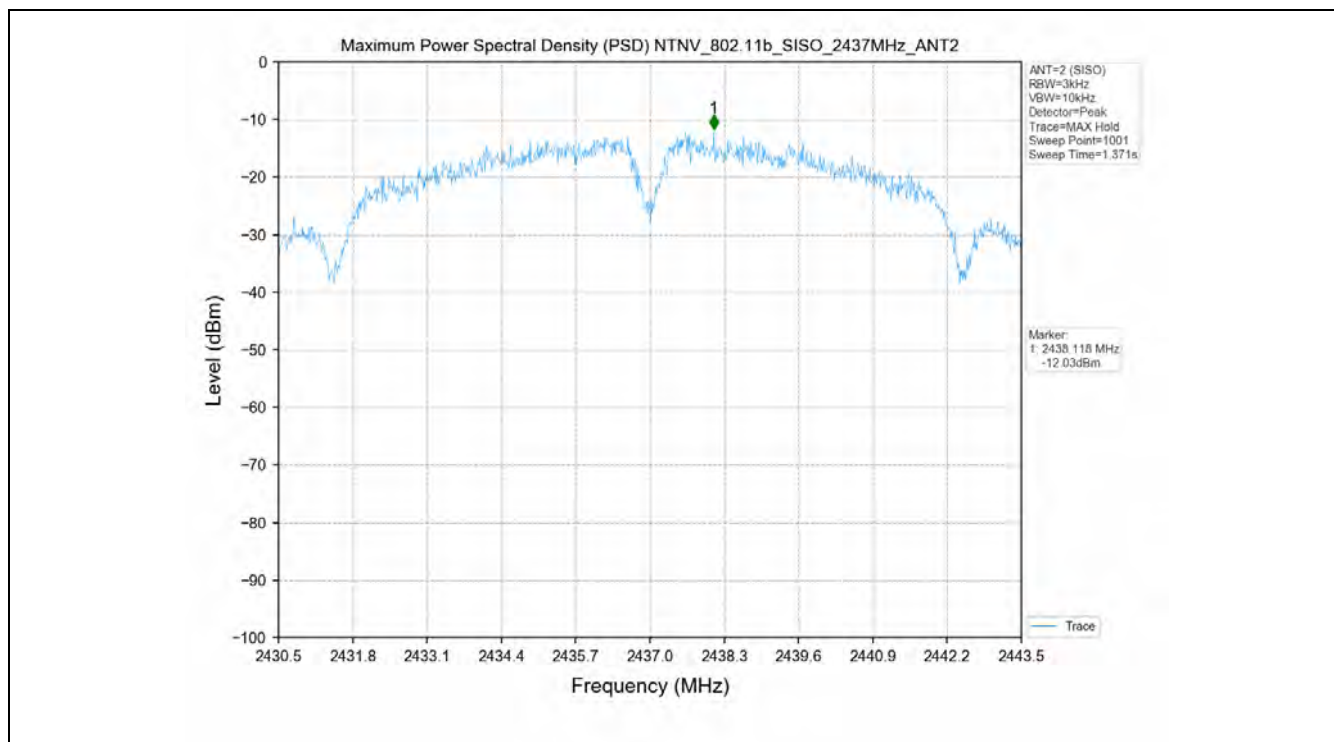


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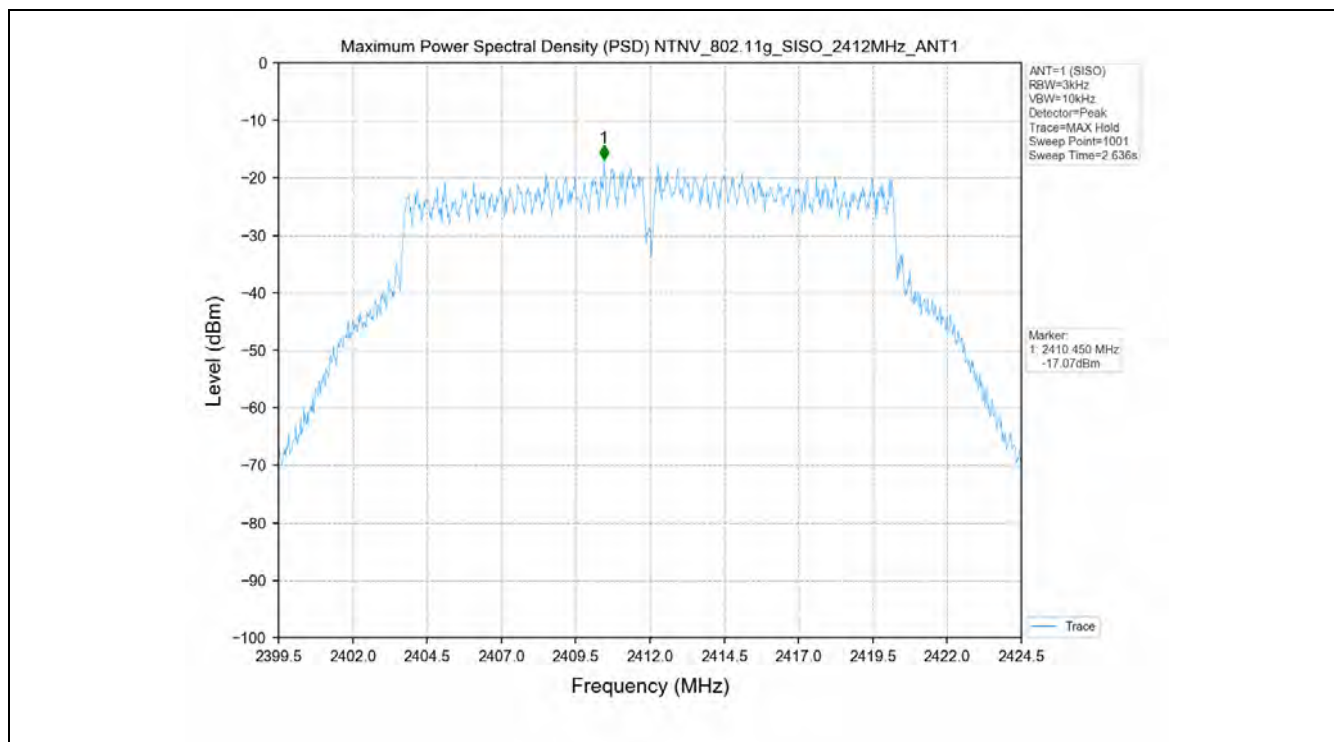
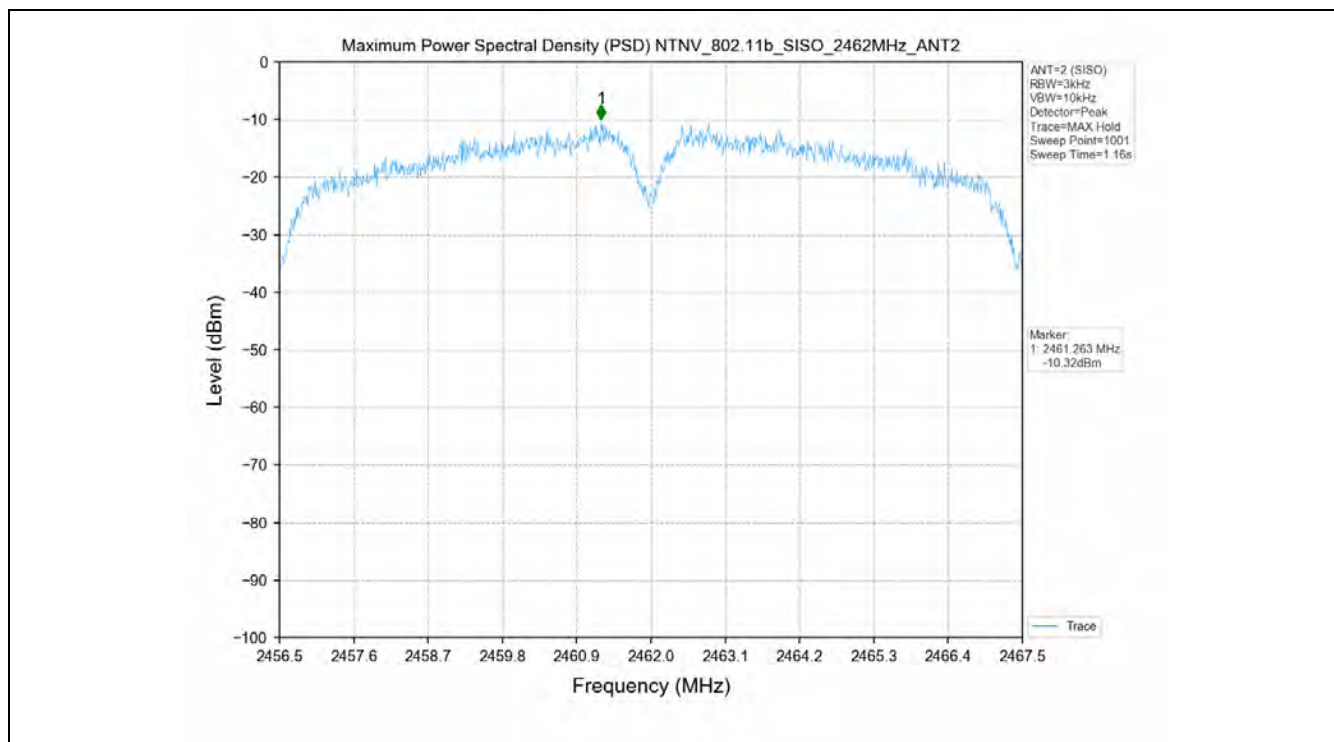


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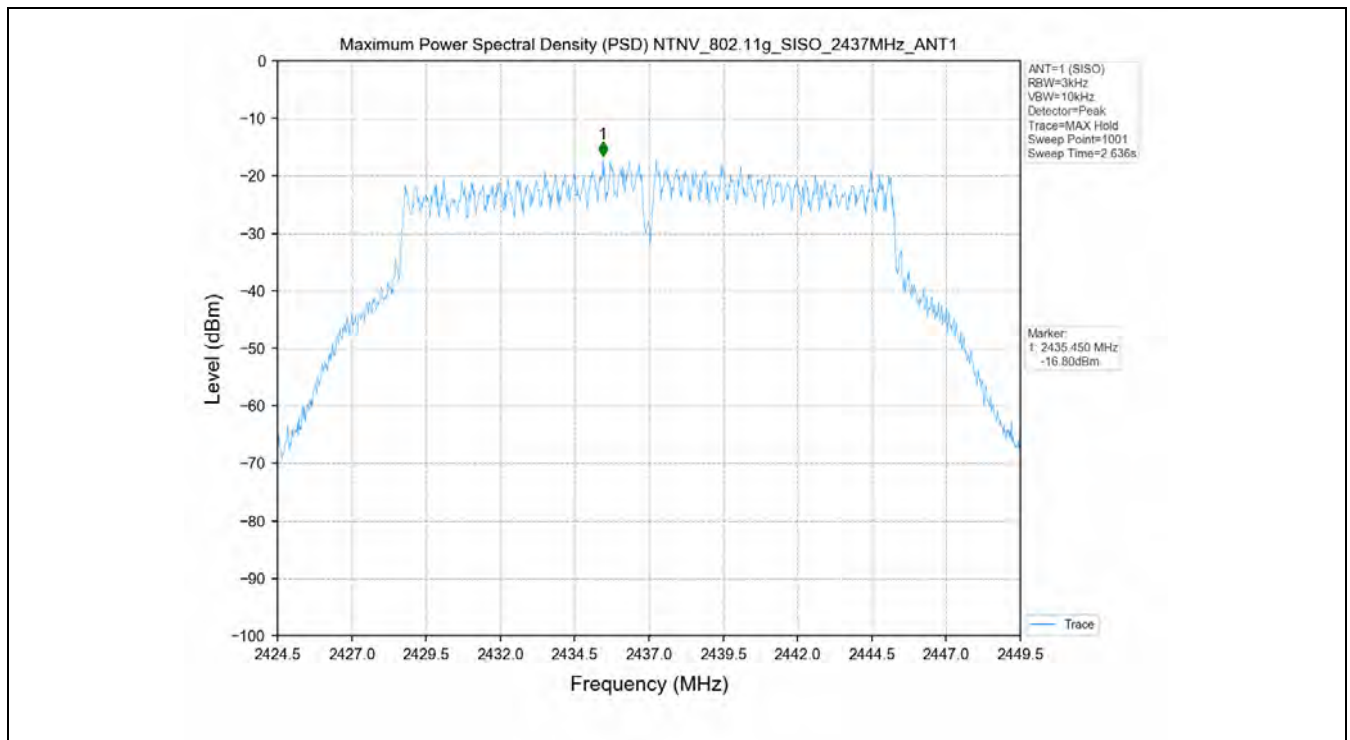
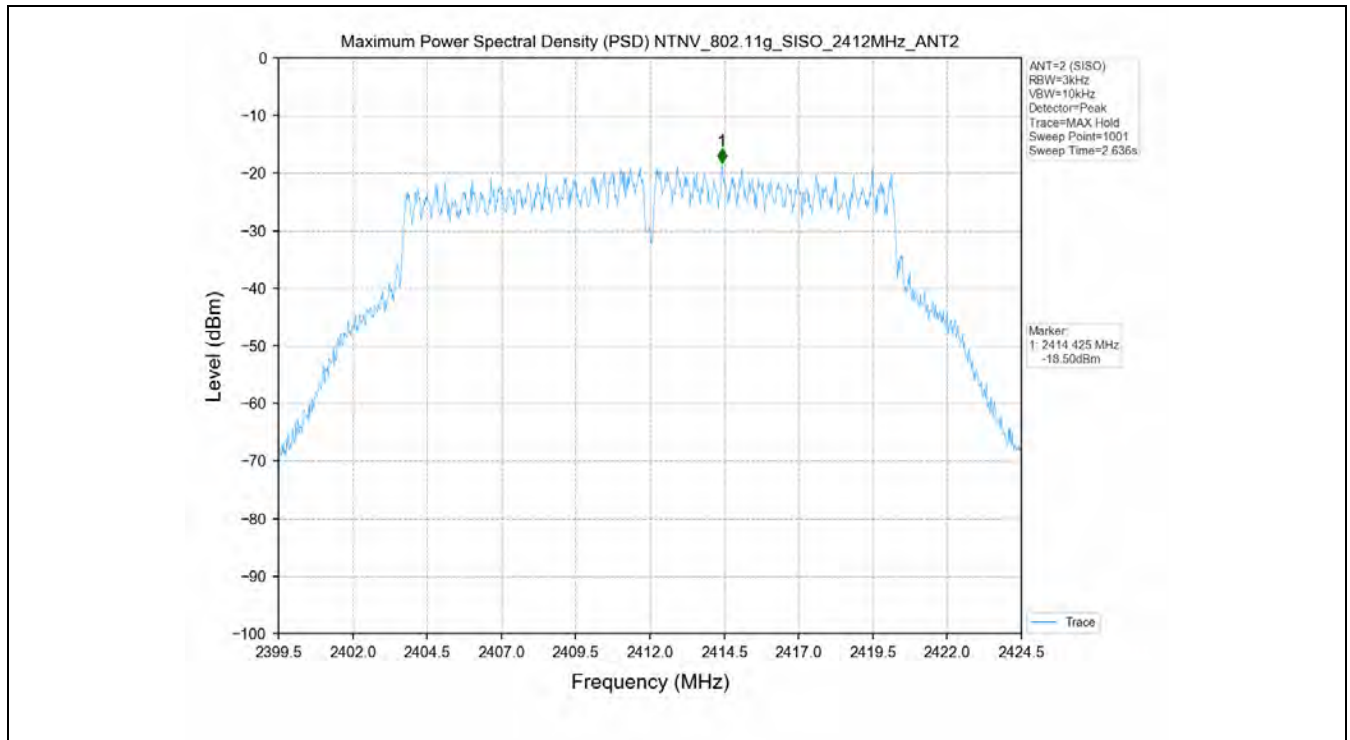


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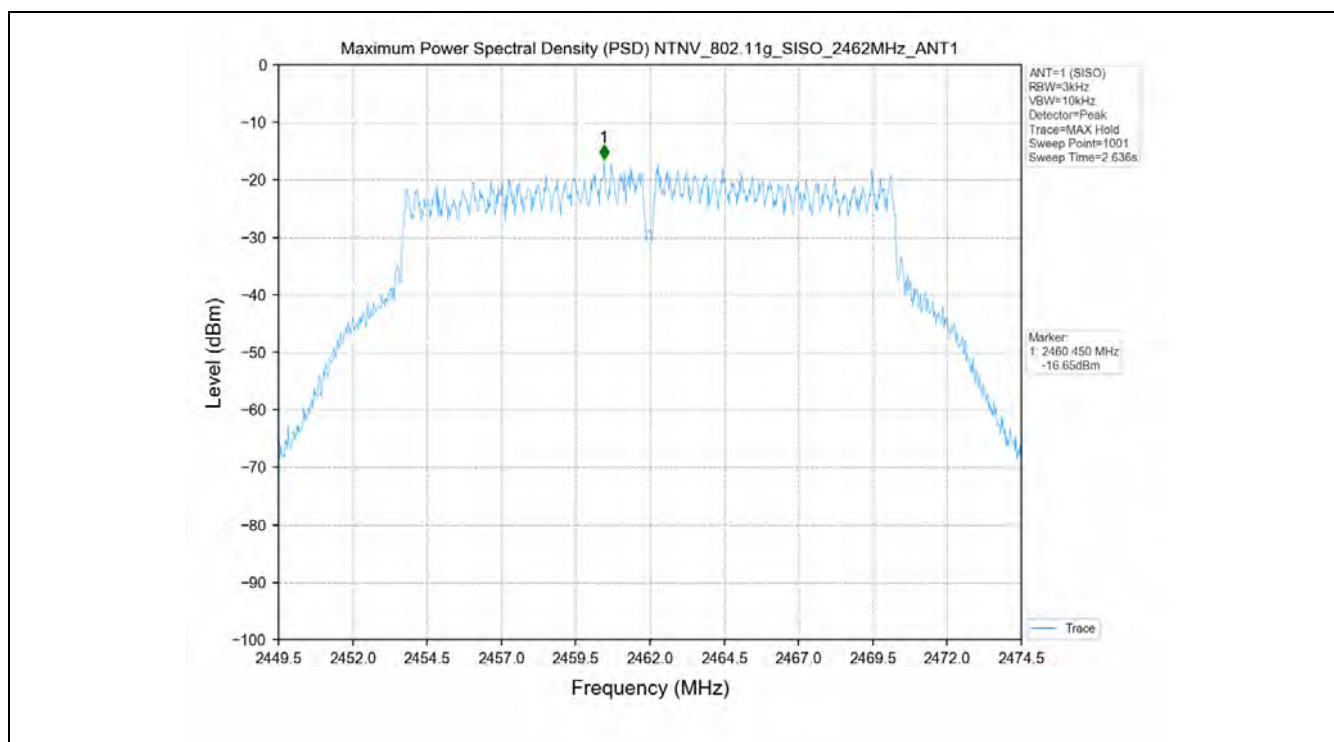
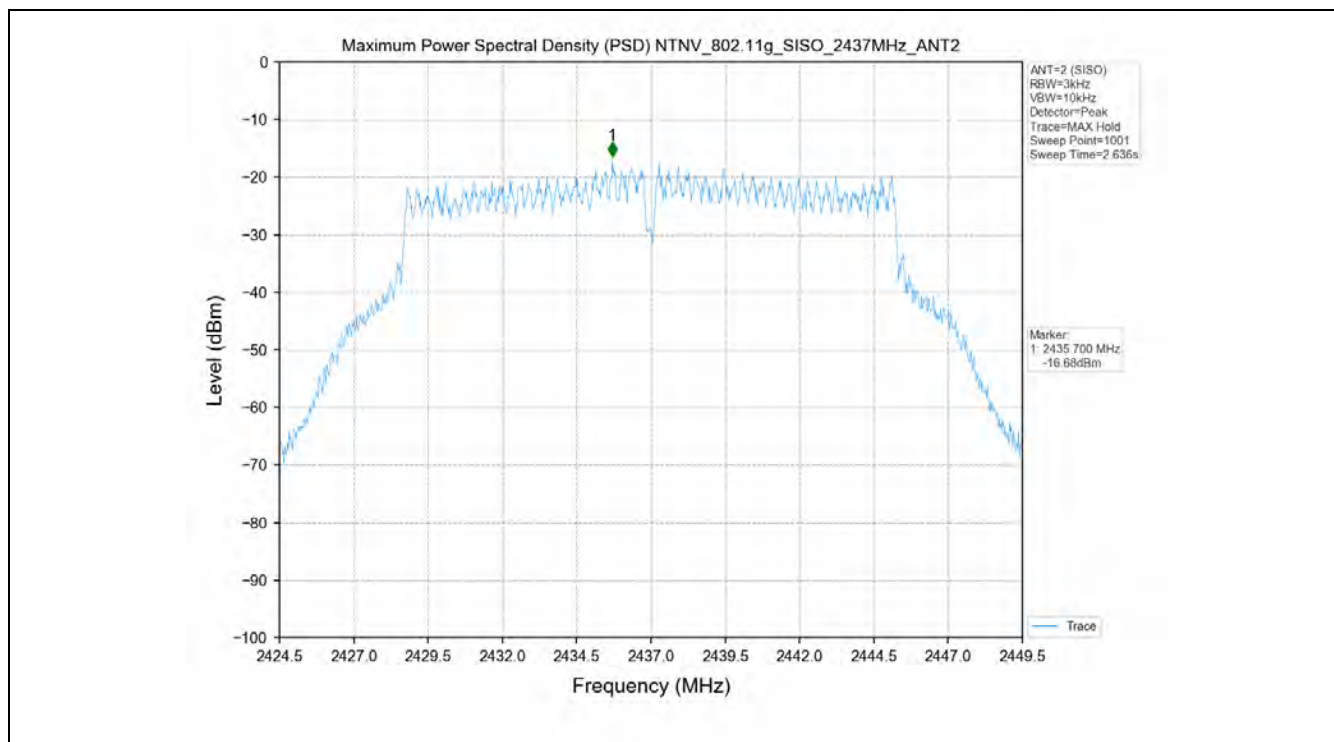


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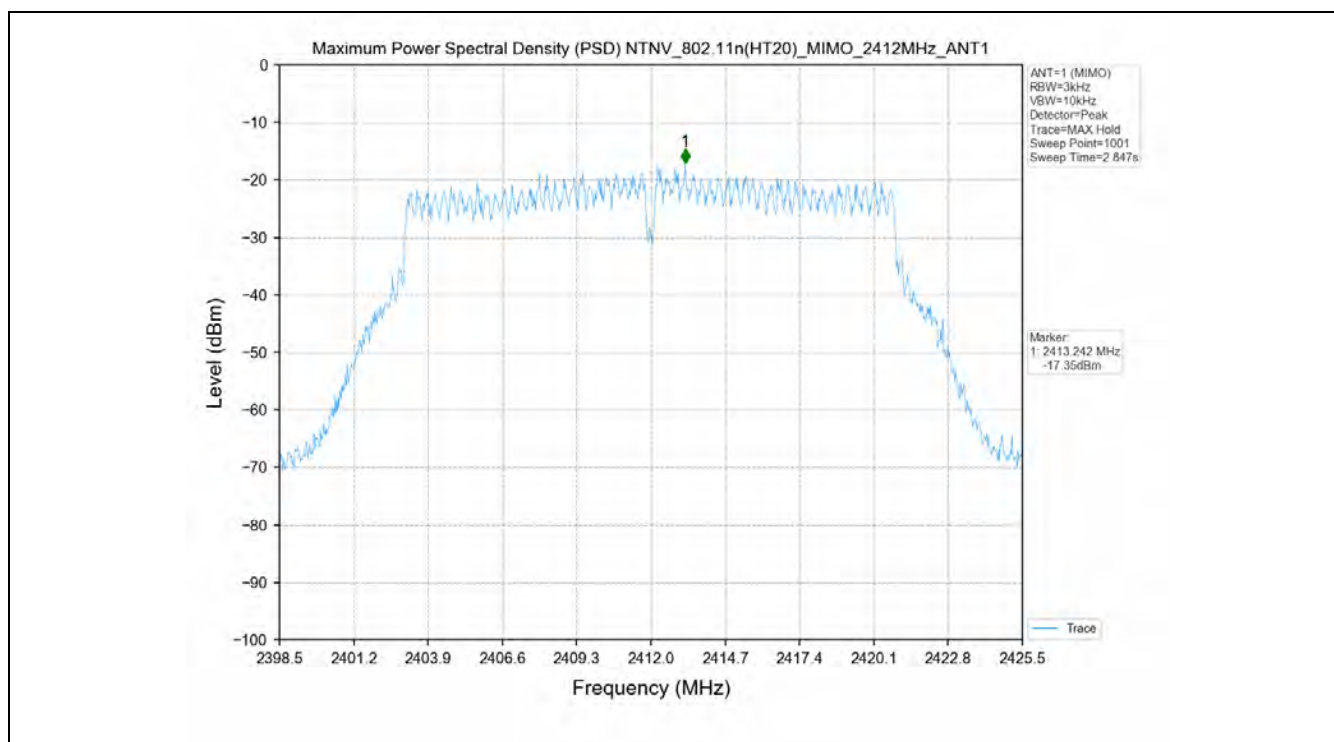
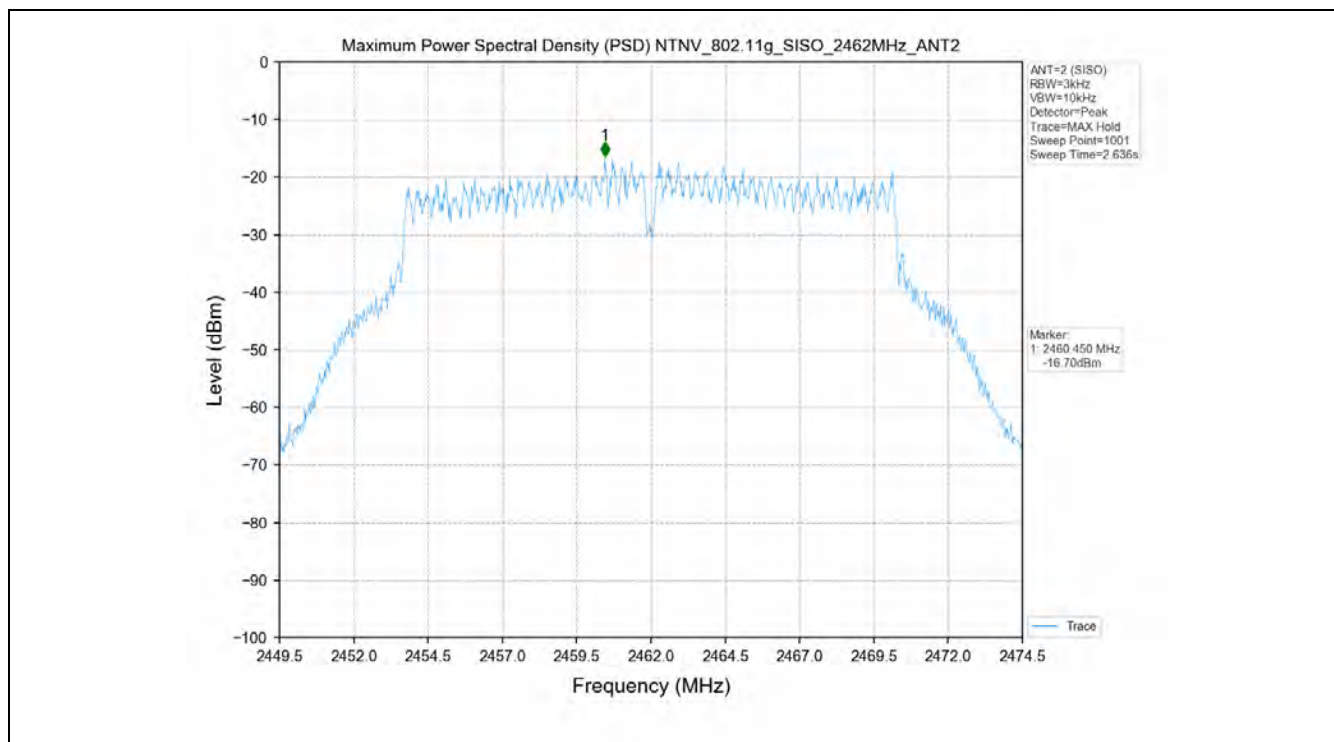


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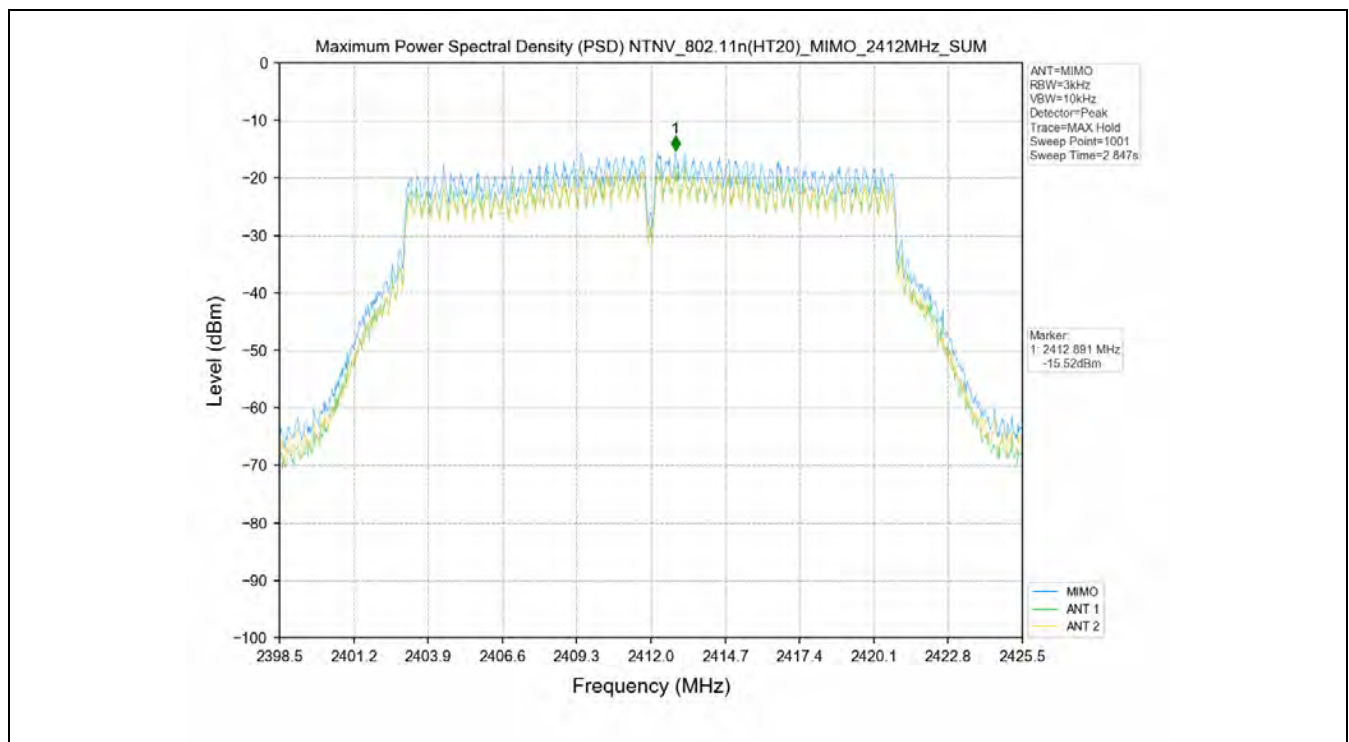
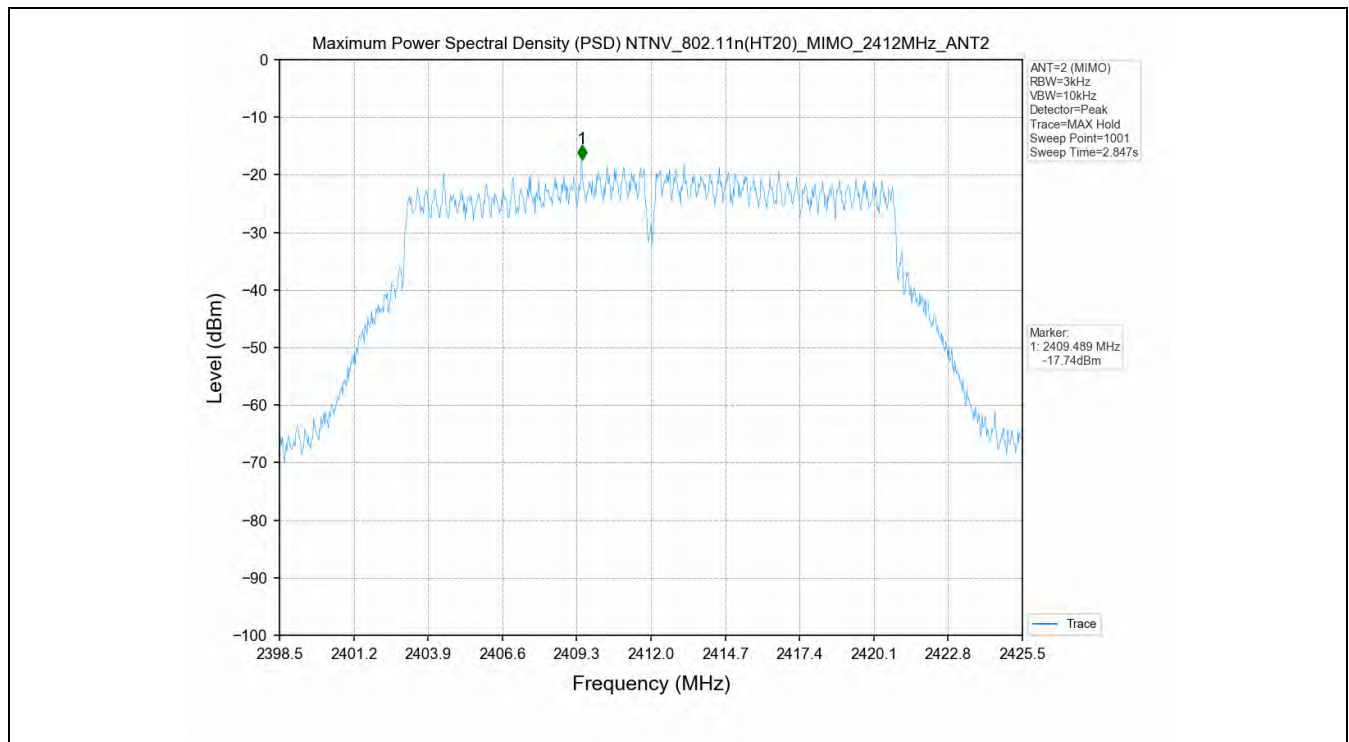


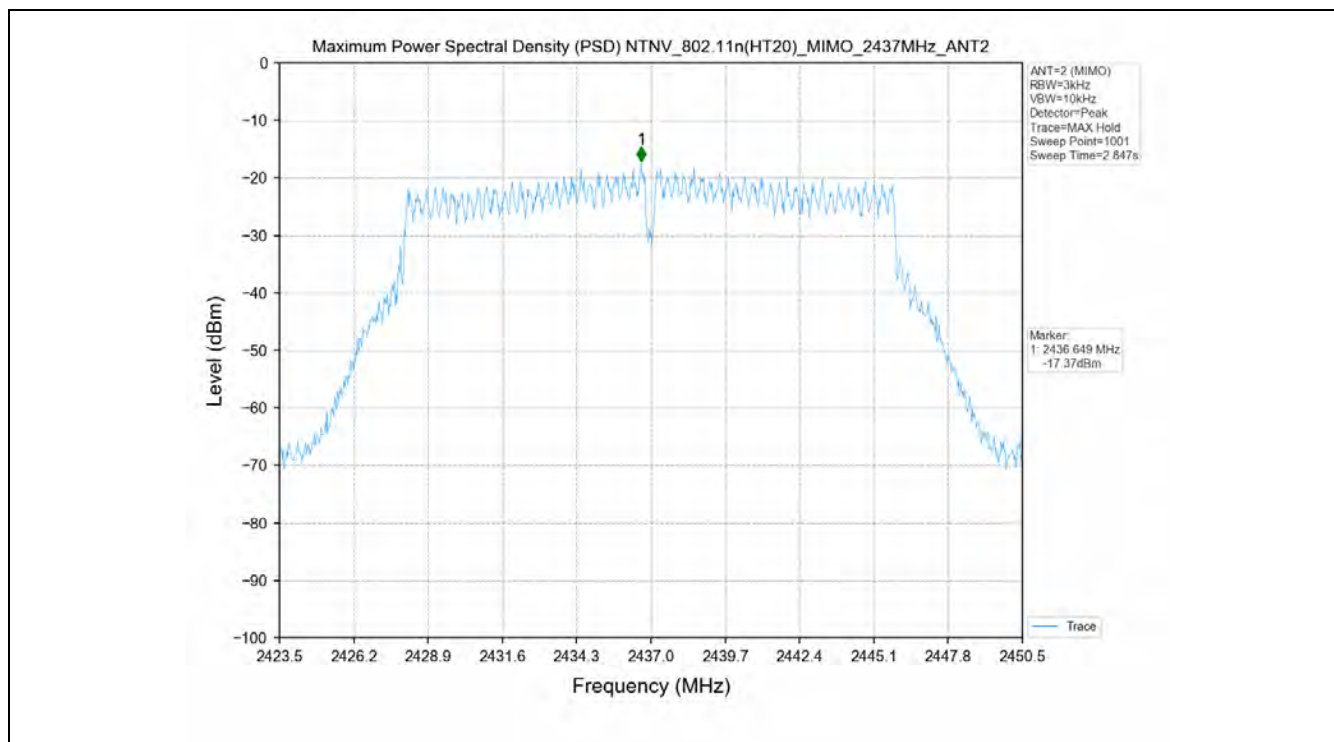
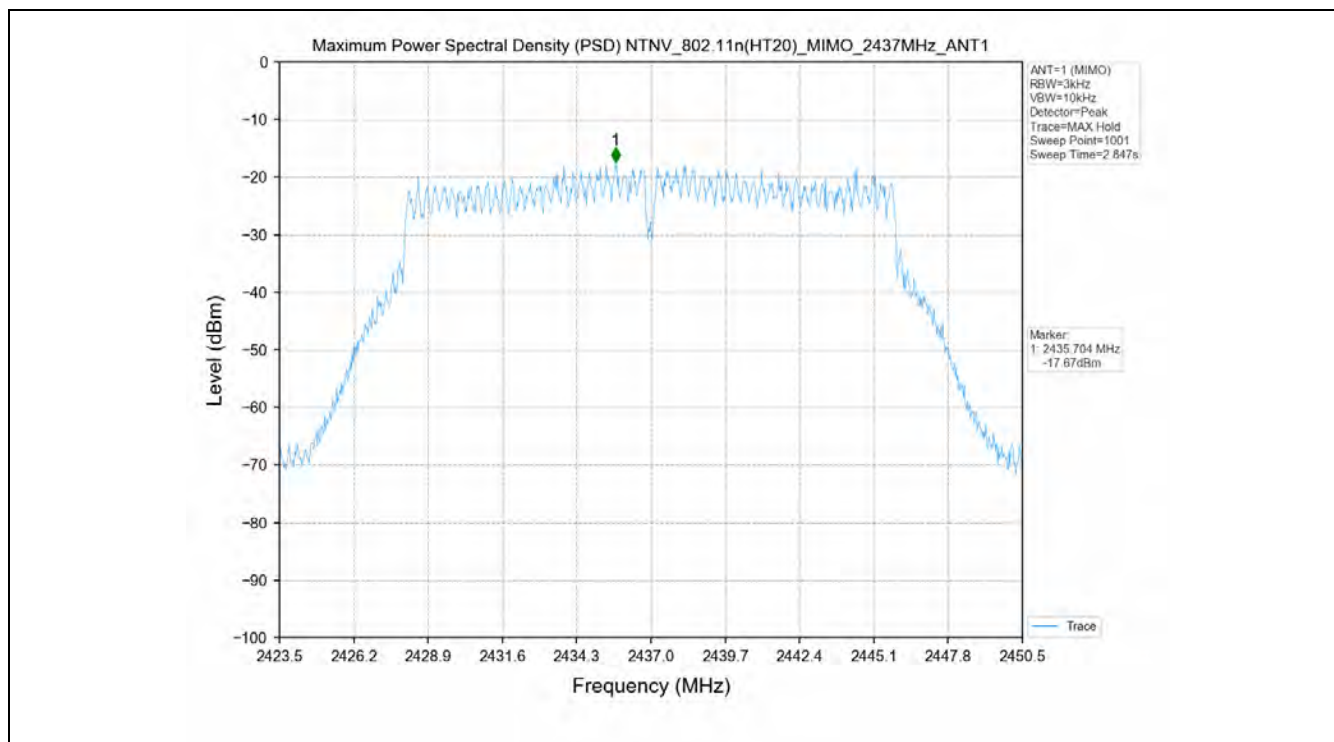
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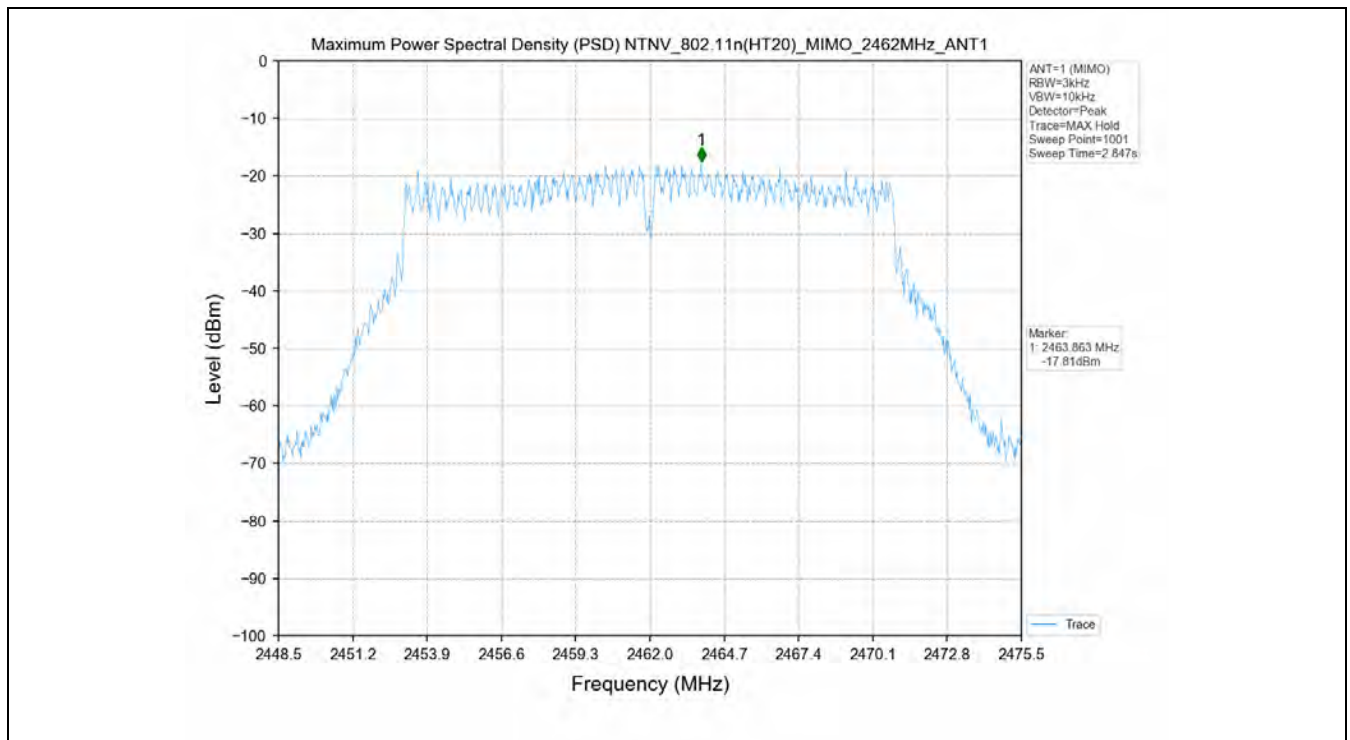
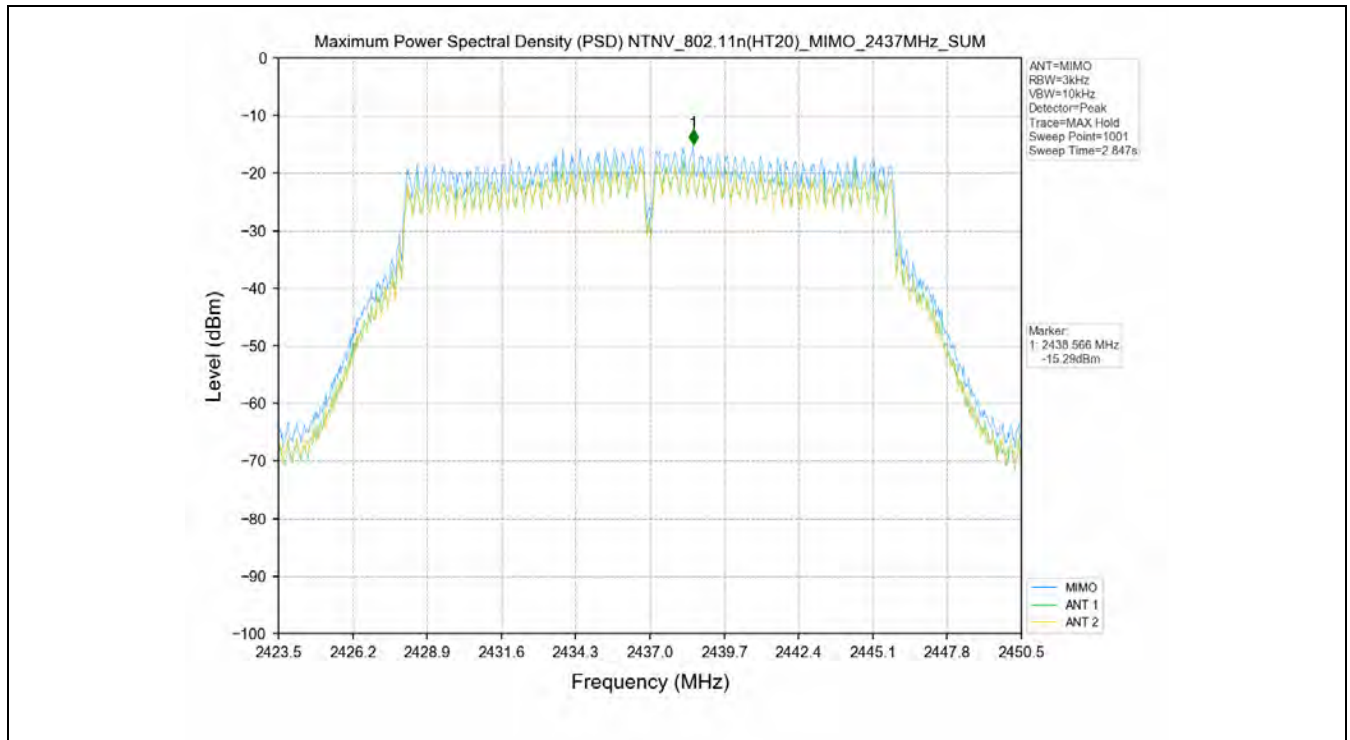
SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch





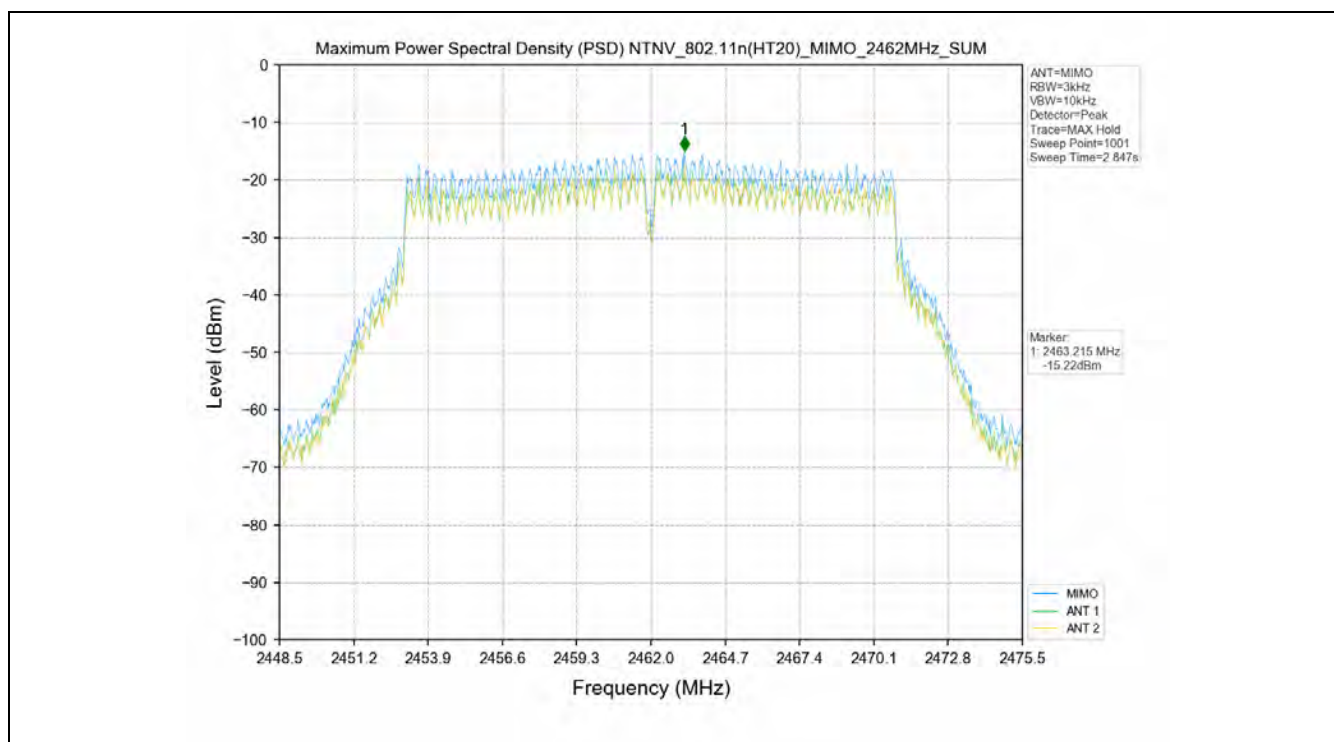
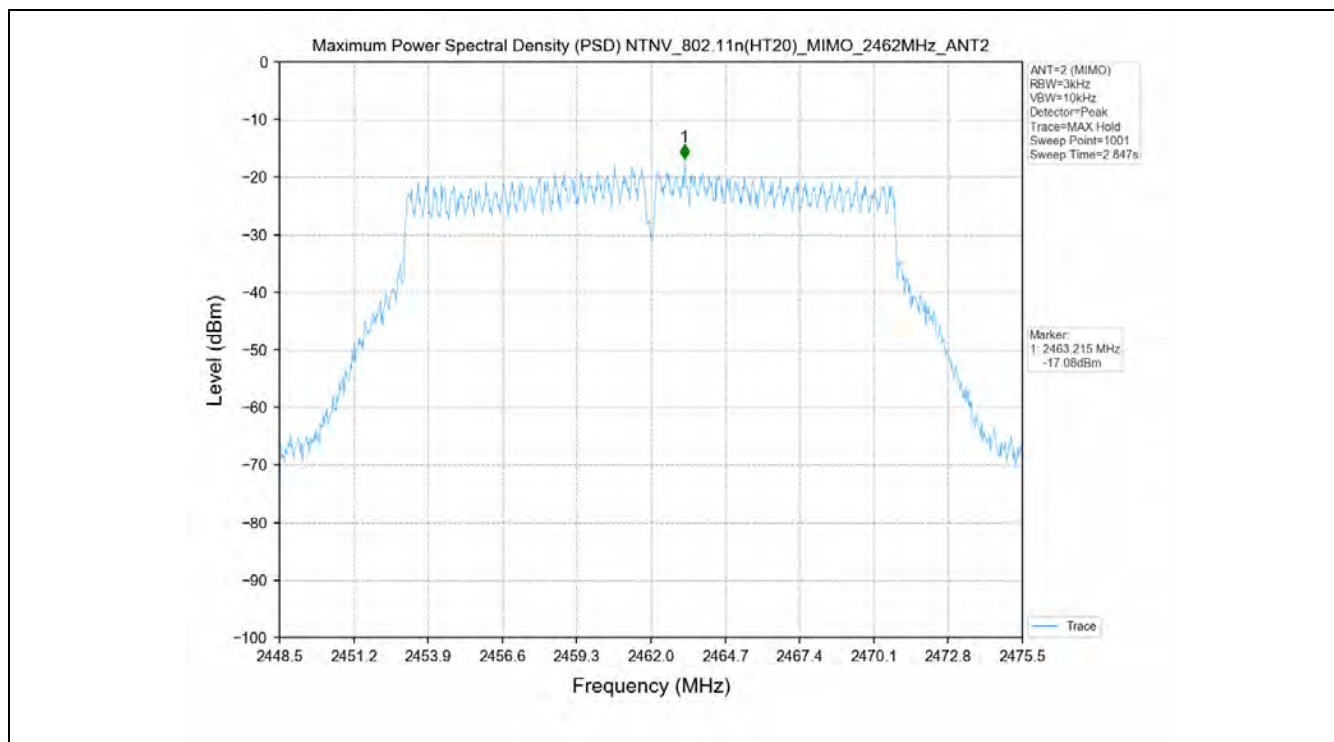


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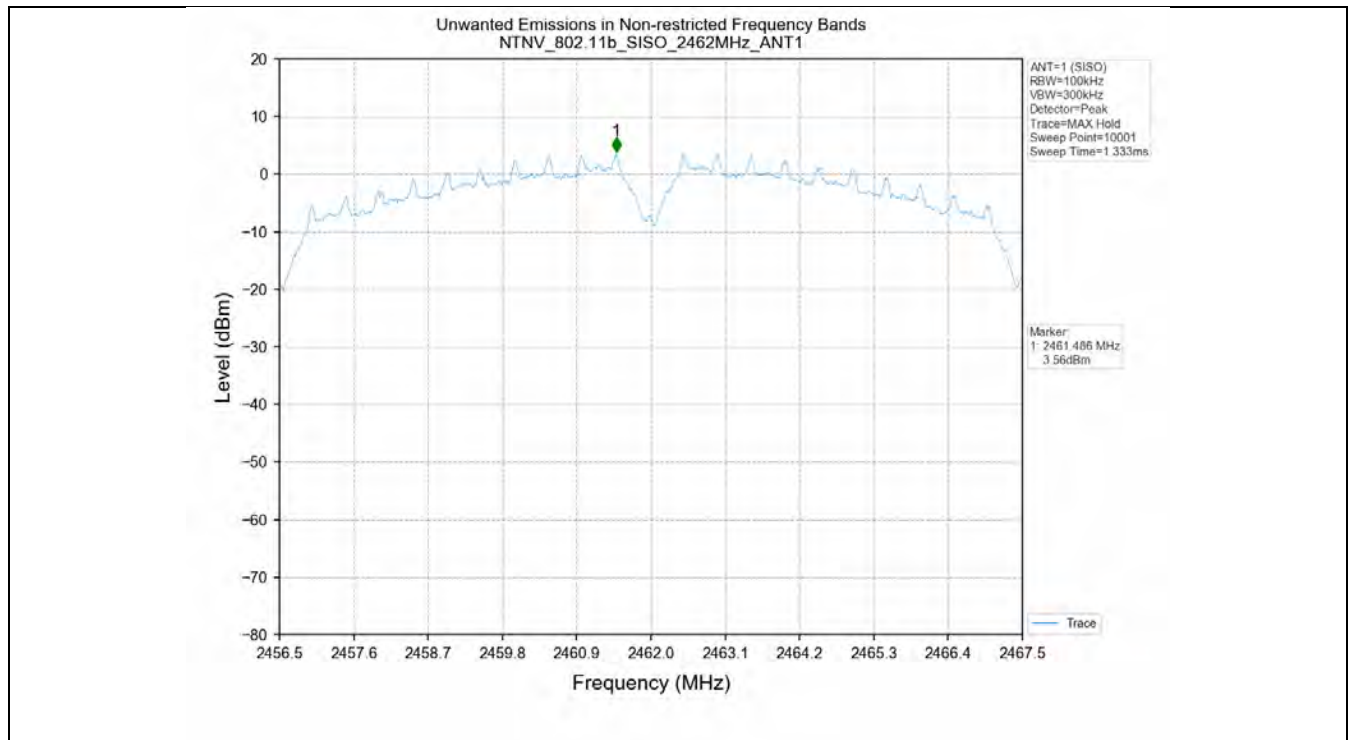
5. Unwanted Emissions in Non-restricted Frequency Bands

5.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBc)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11g	2412	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2437	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
	2462	SISO	1	Refer to test graph	-20	PASS
			2	Refer to test graph	-20	PASS
802.11n(HT20)	2412	MIMO	0	Refer to test graph	-20	PASS
	2437	MIMO	0	Refer to test graph	-20	PASS
	2462	MIMO	0	Refer to test graph	-20	PASS

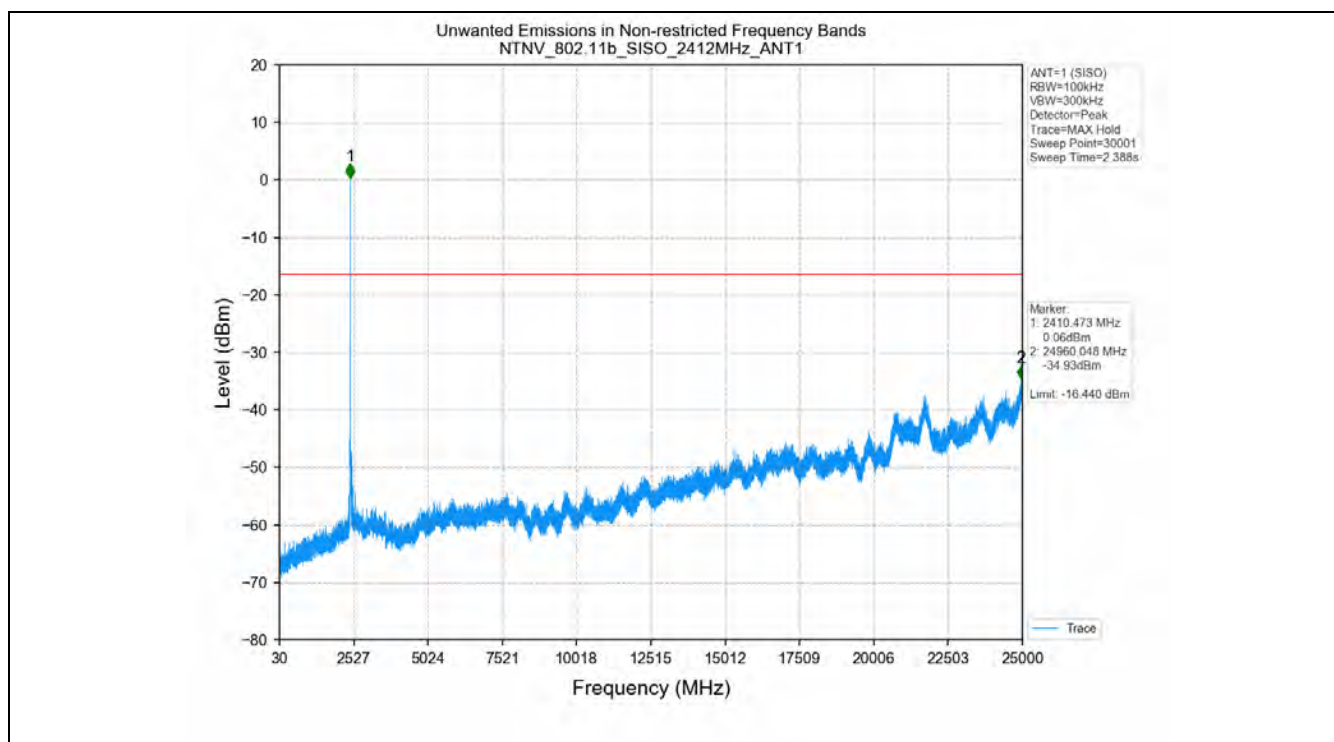
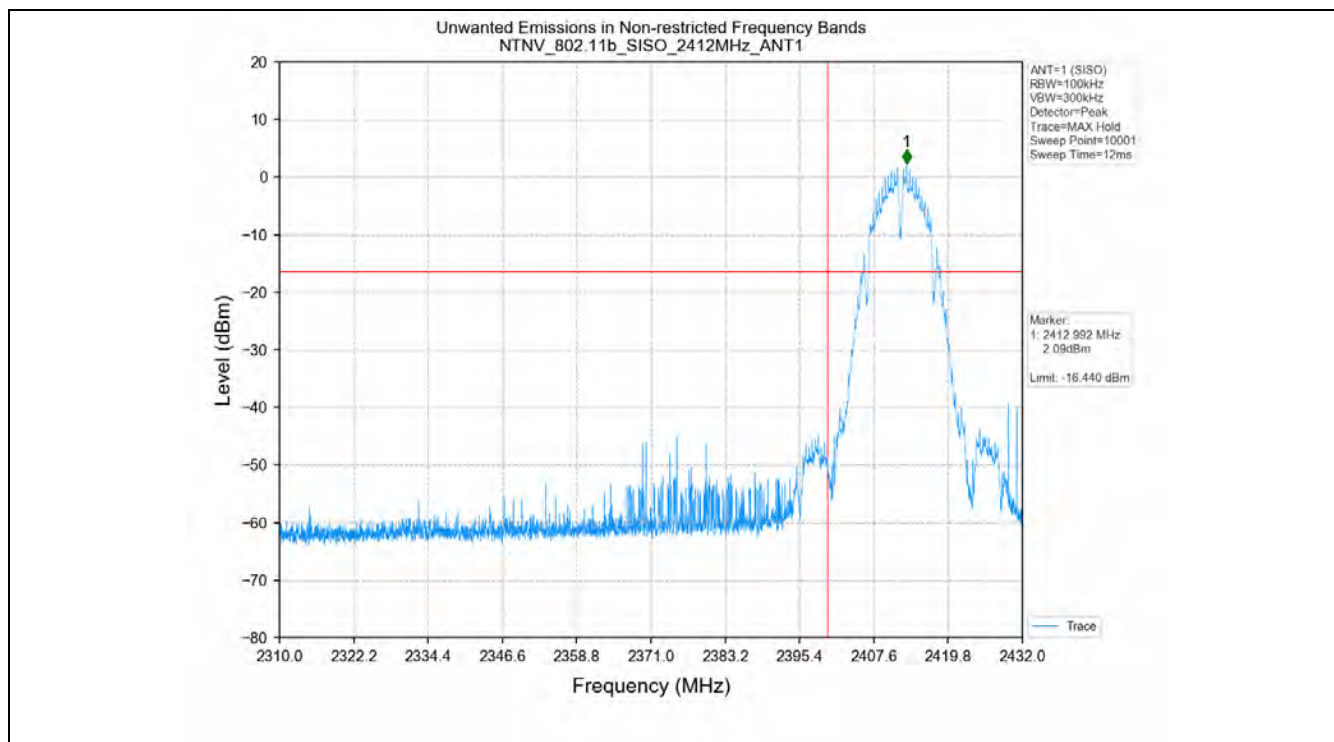


5.2 Test Graph



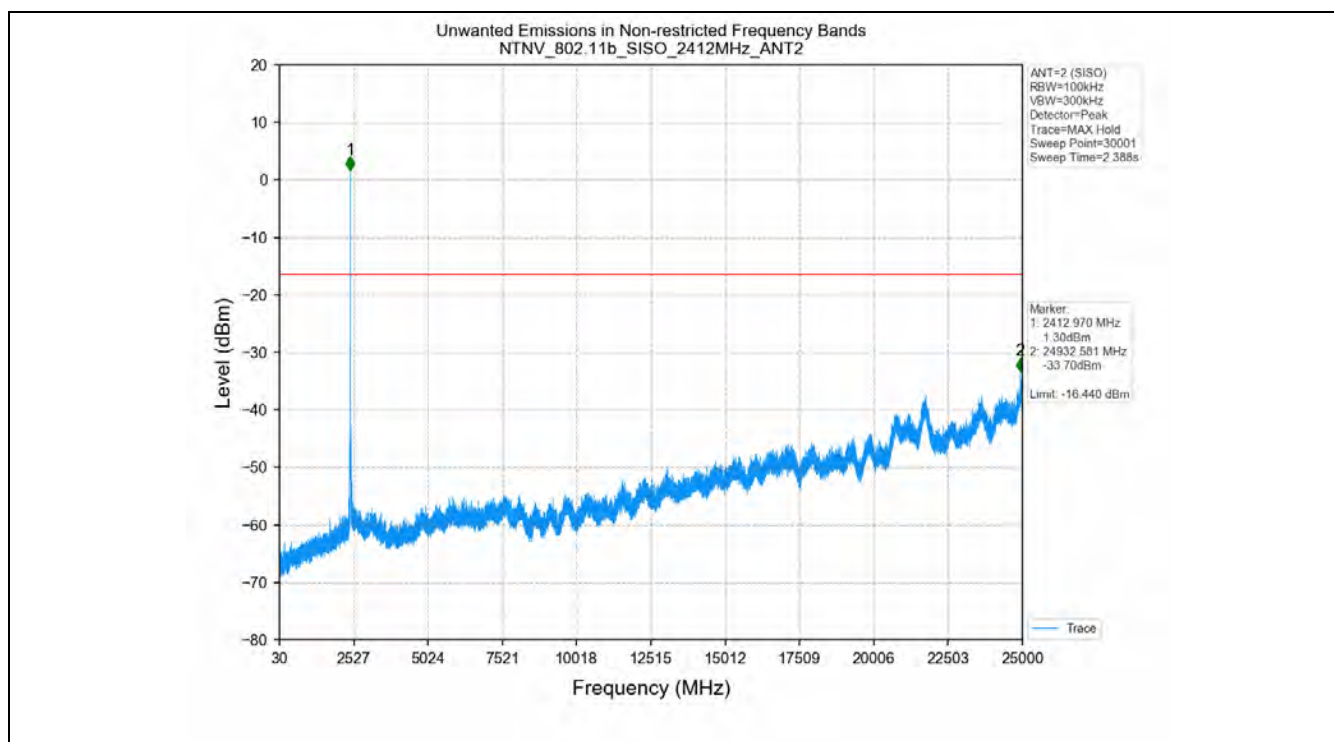
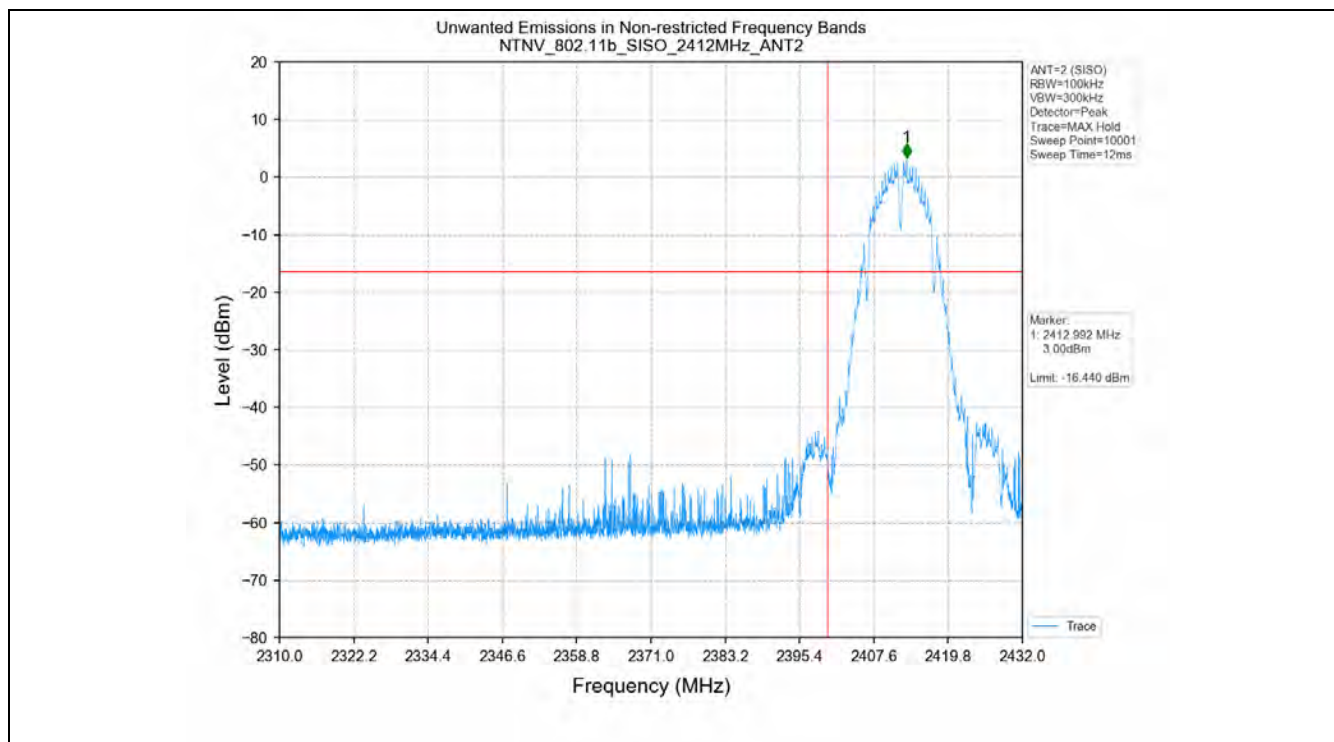


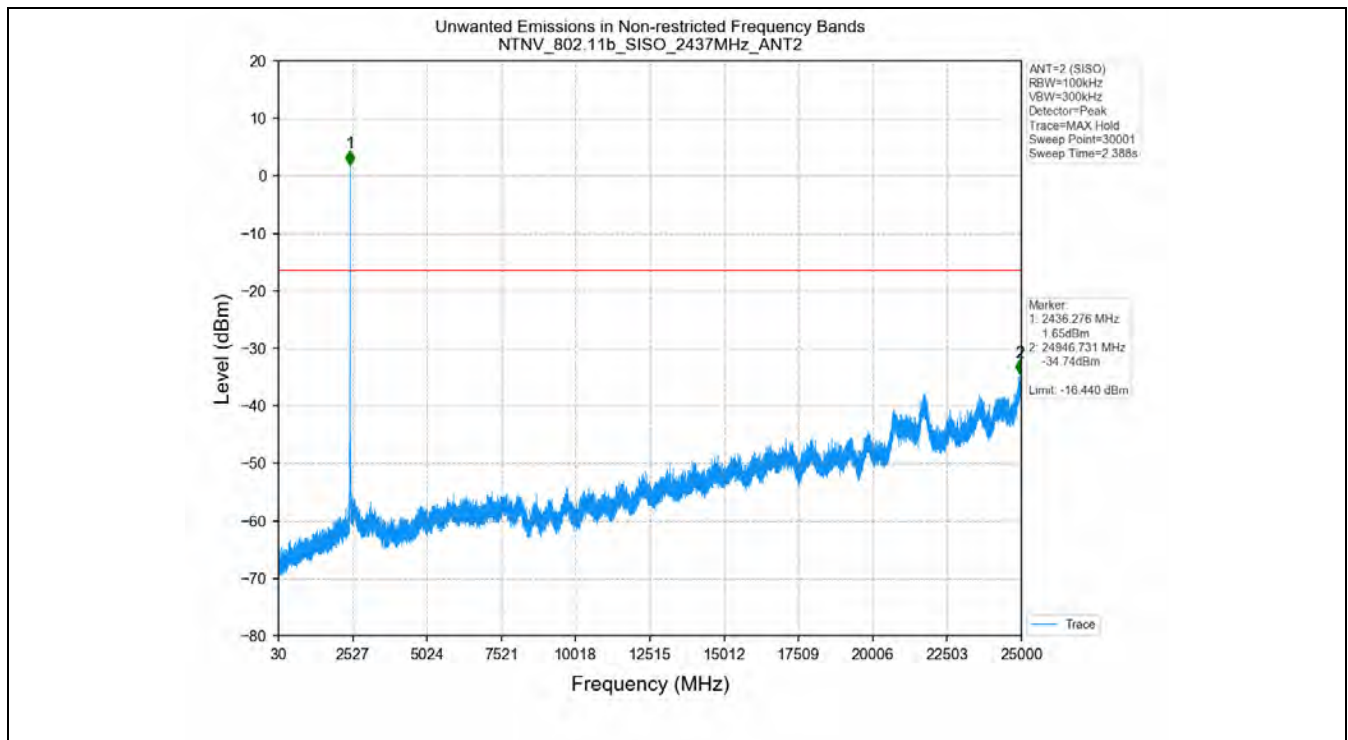
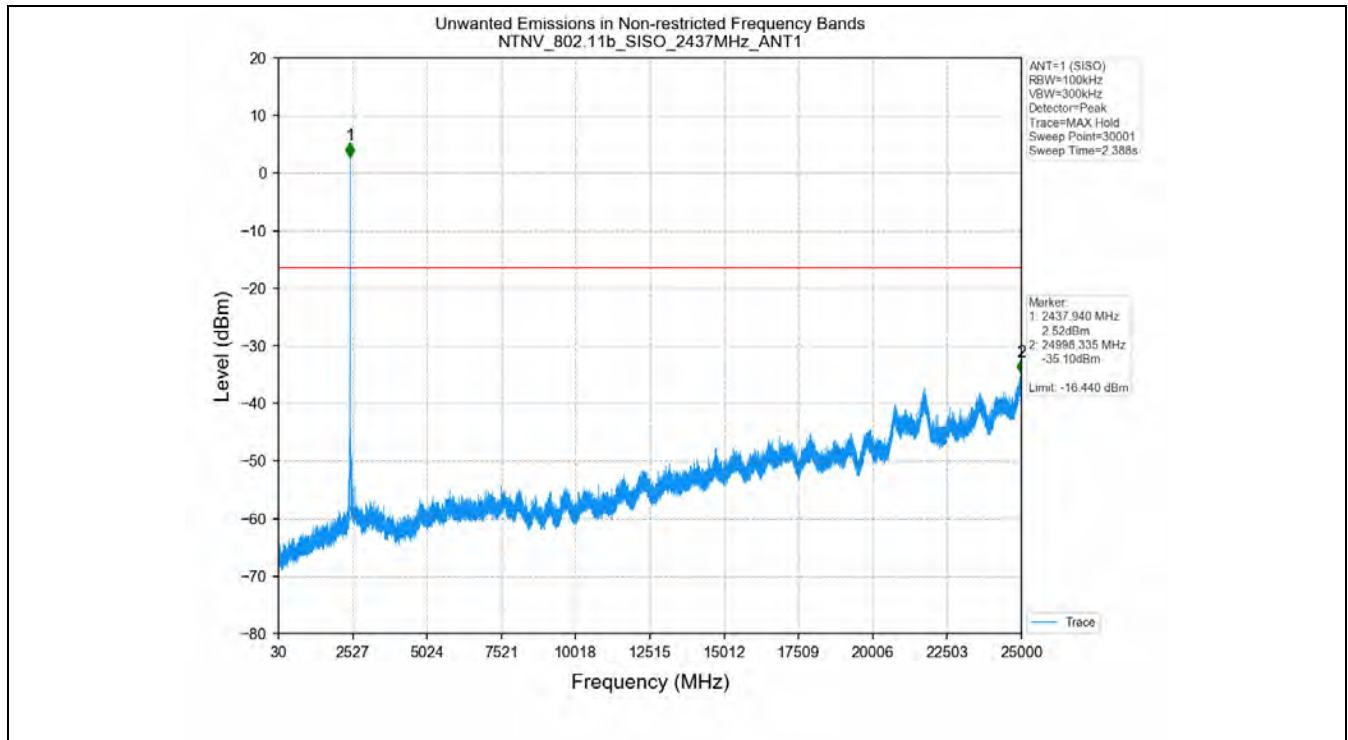
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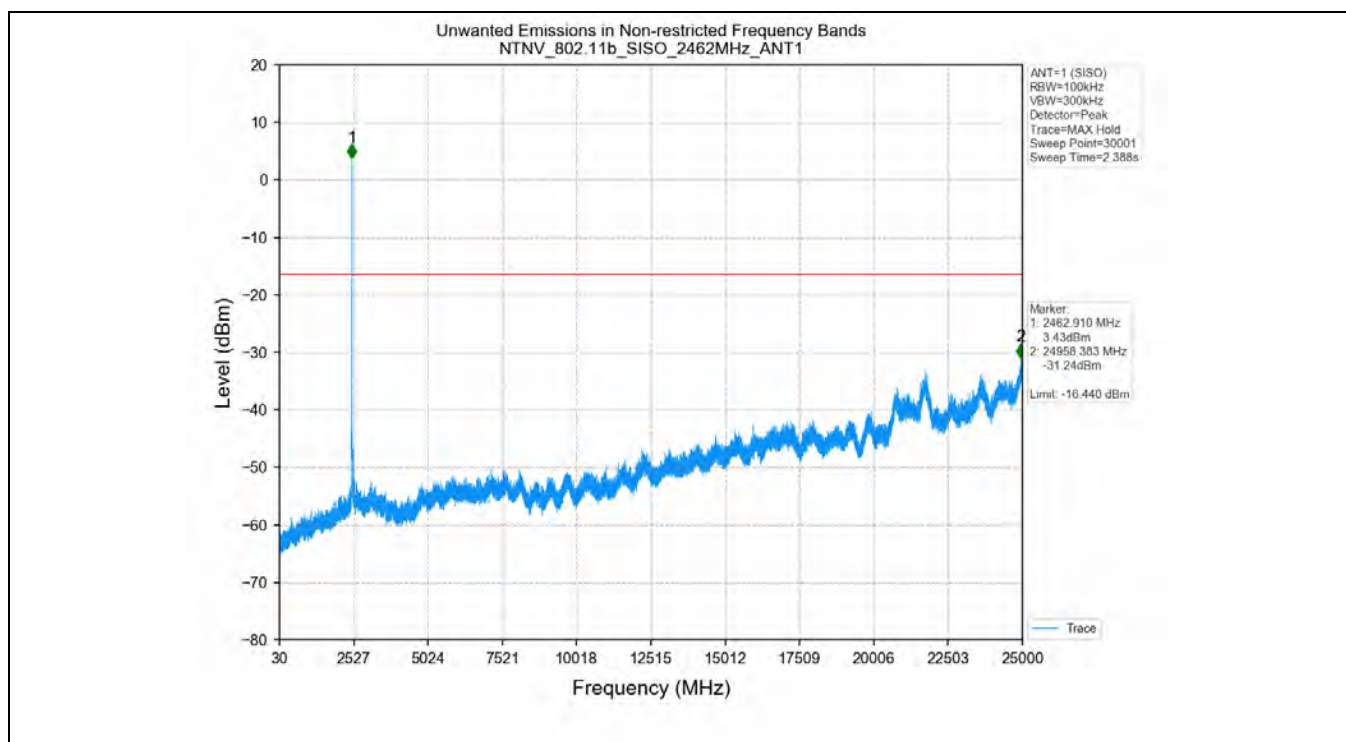
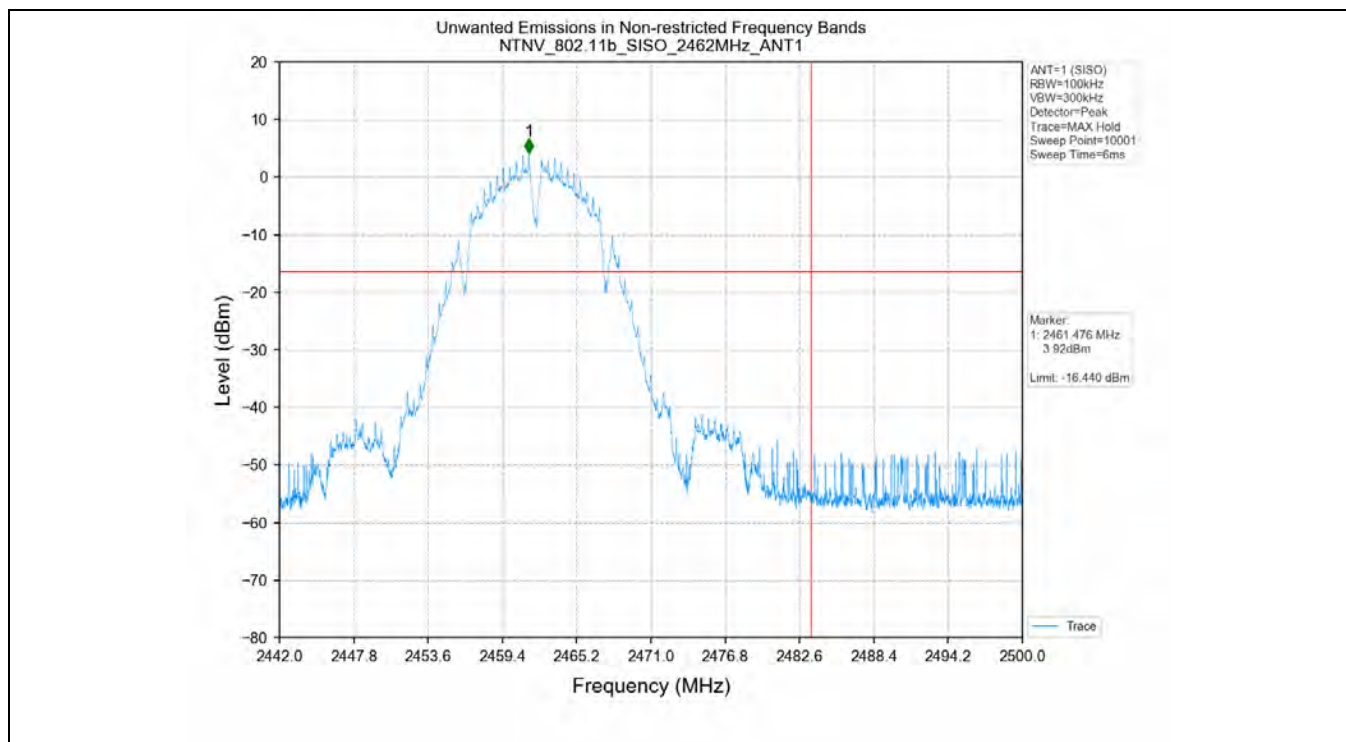




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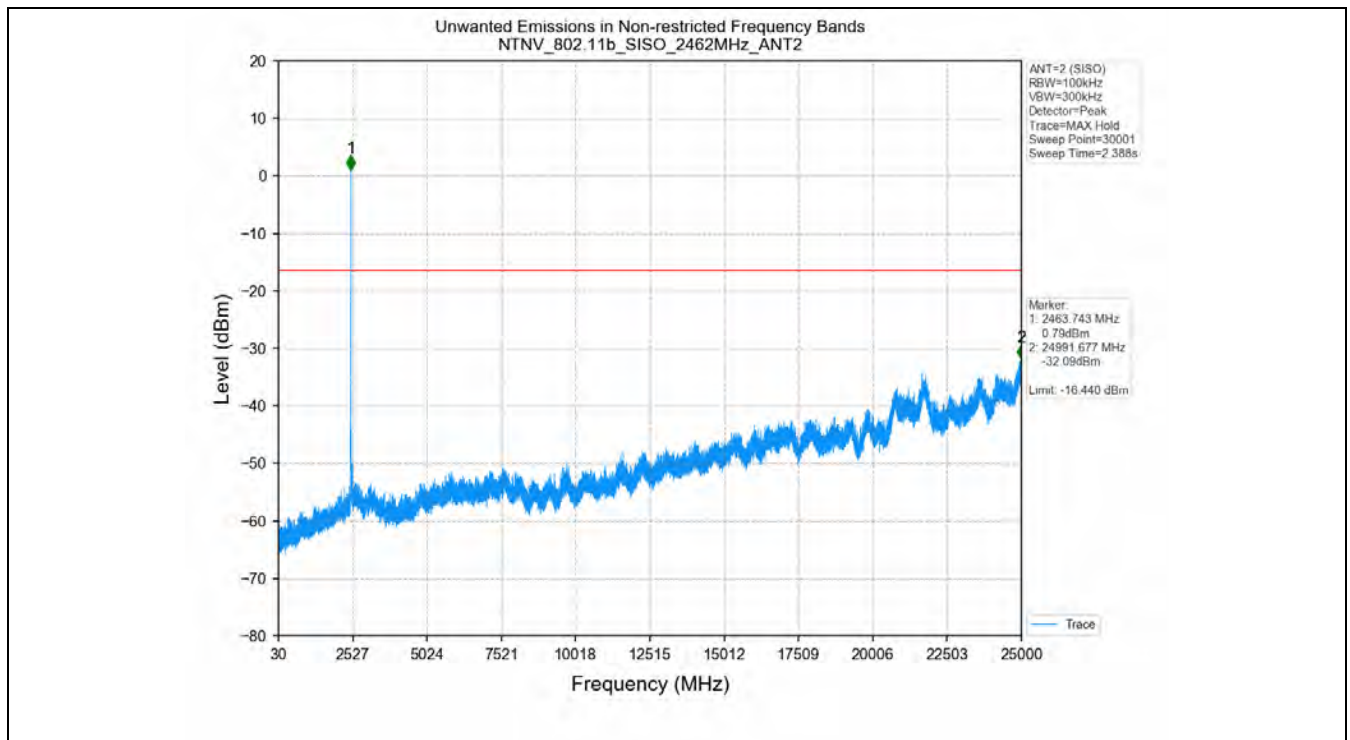
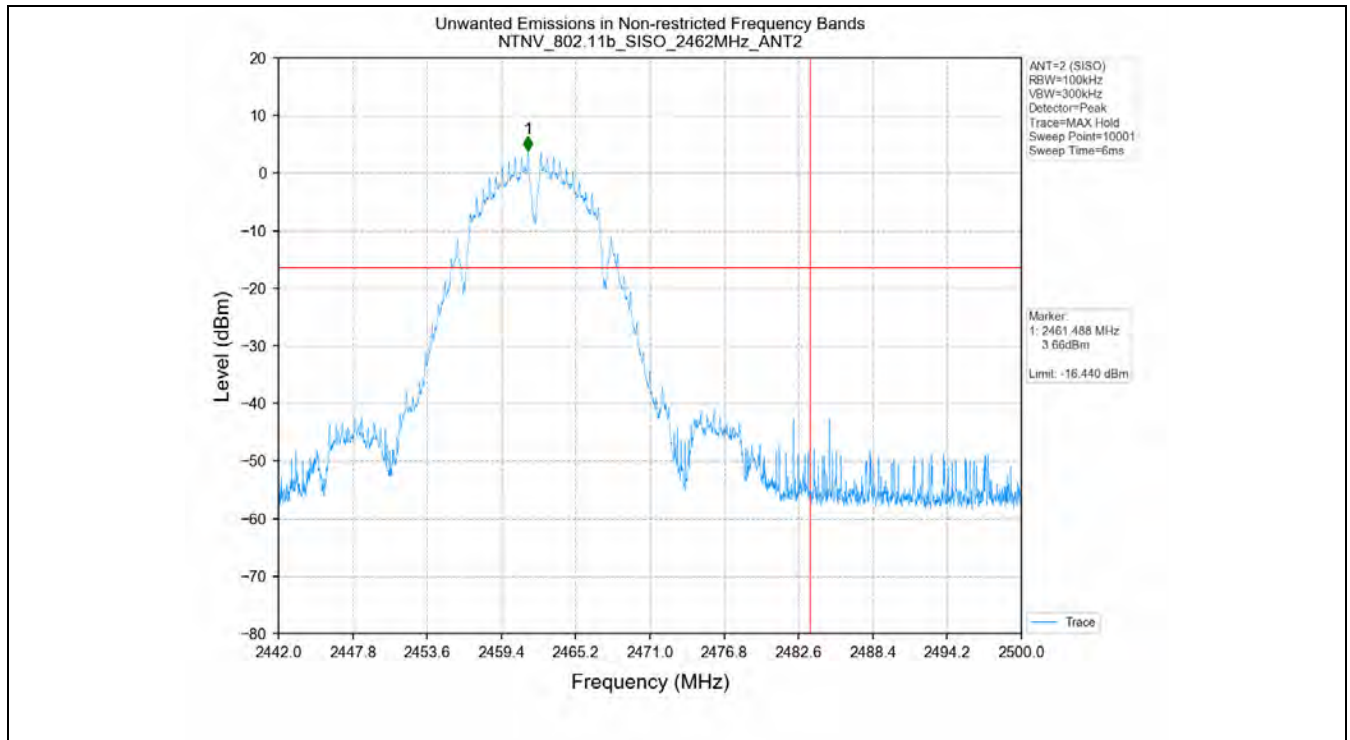


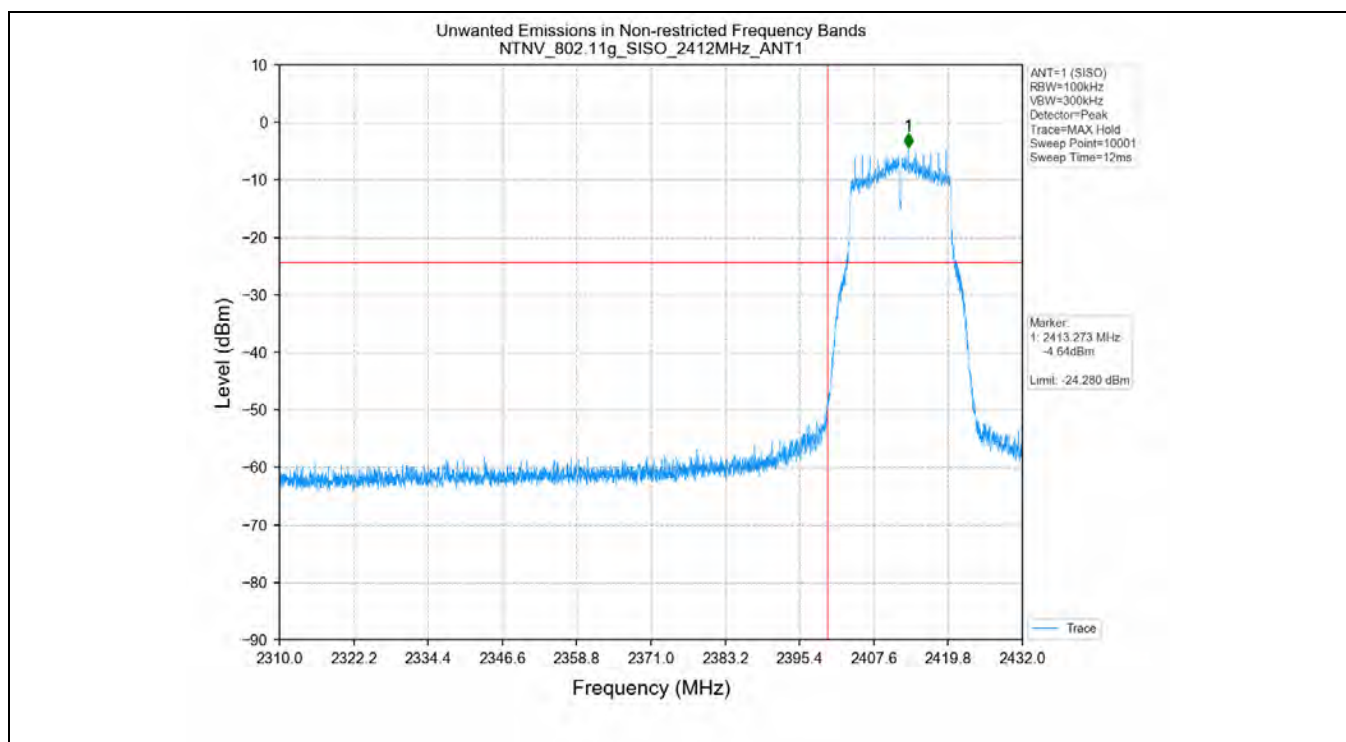
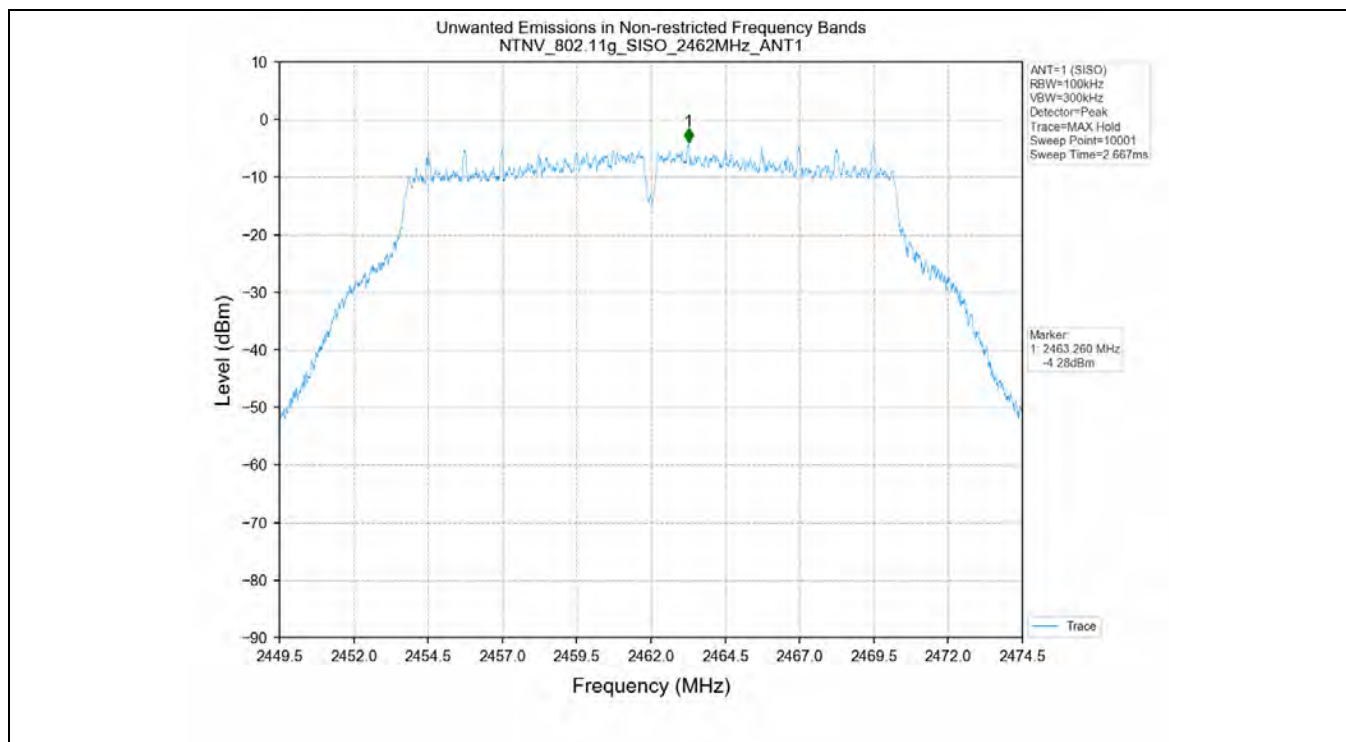






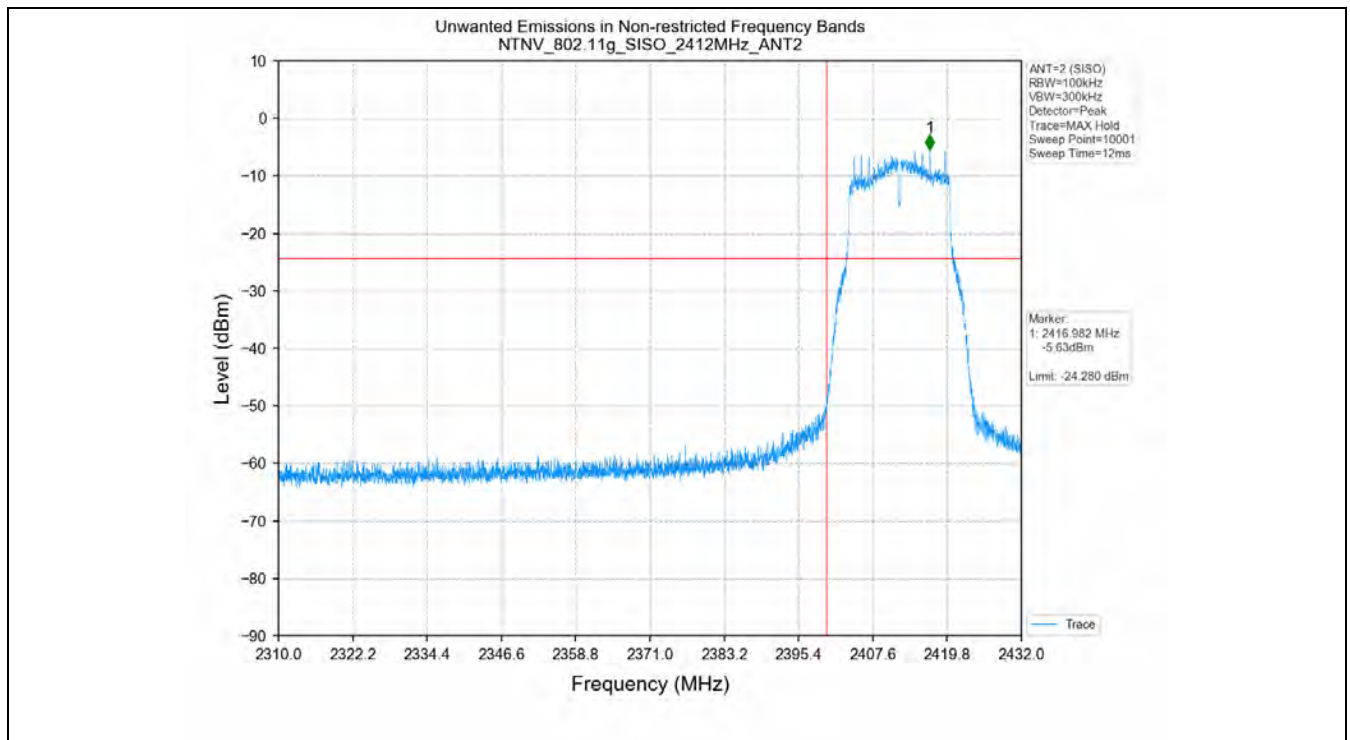
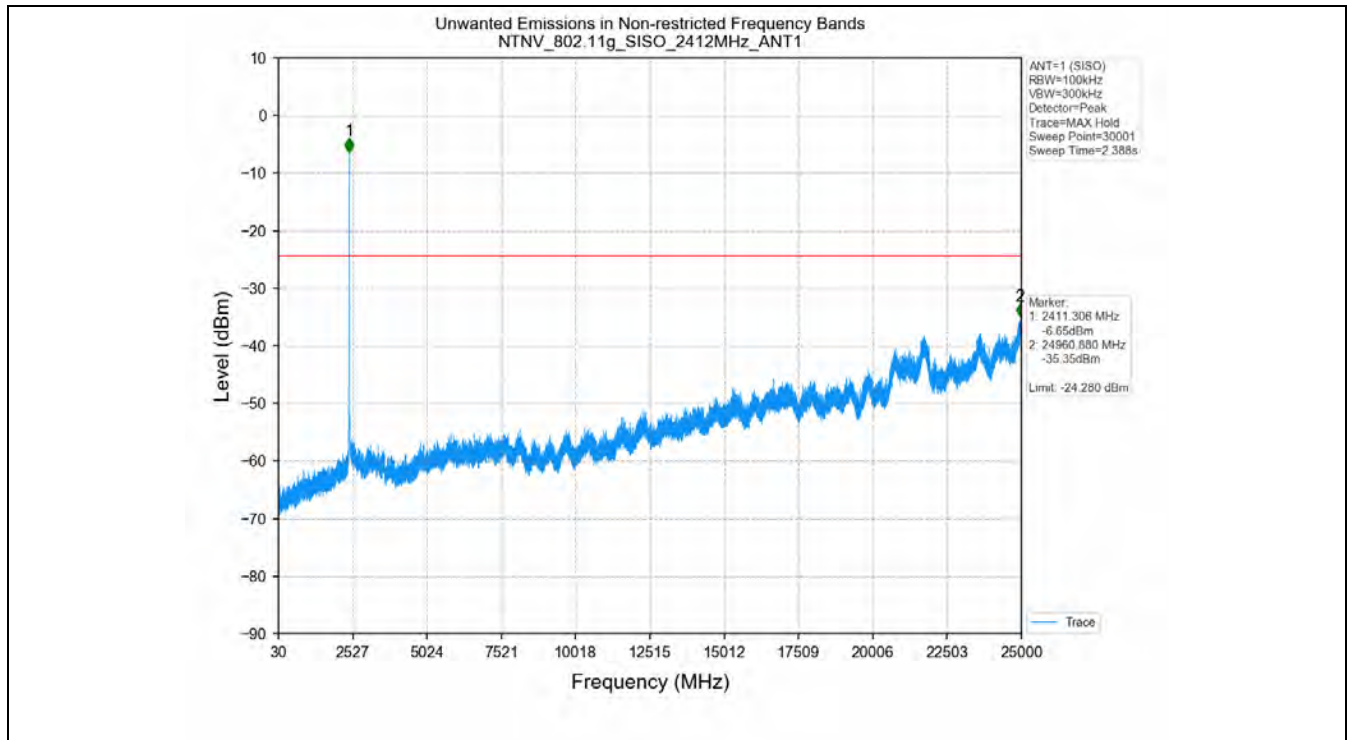
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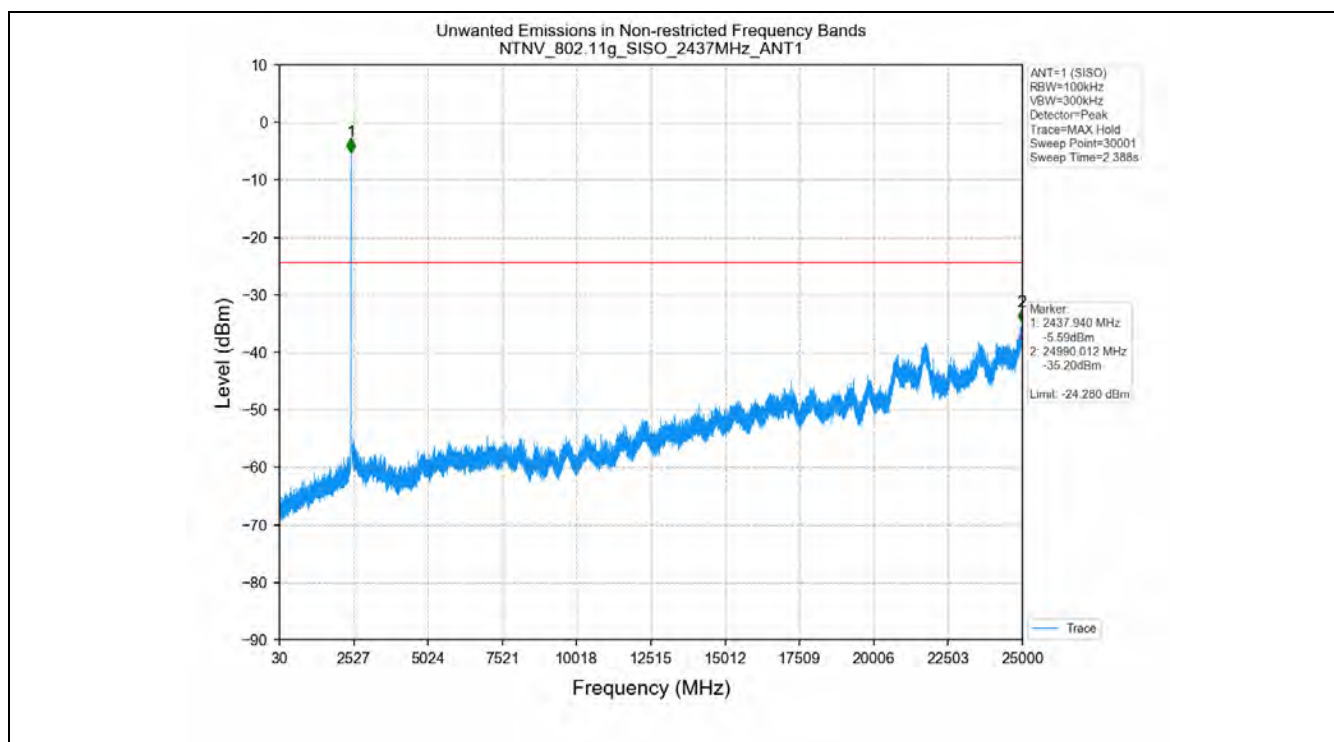
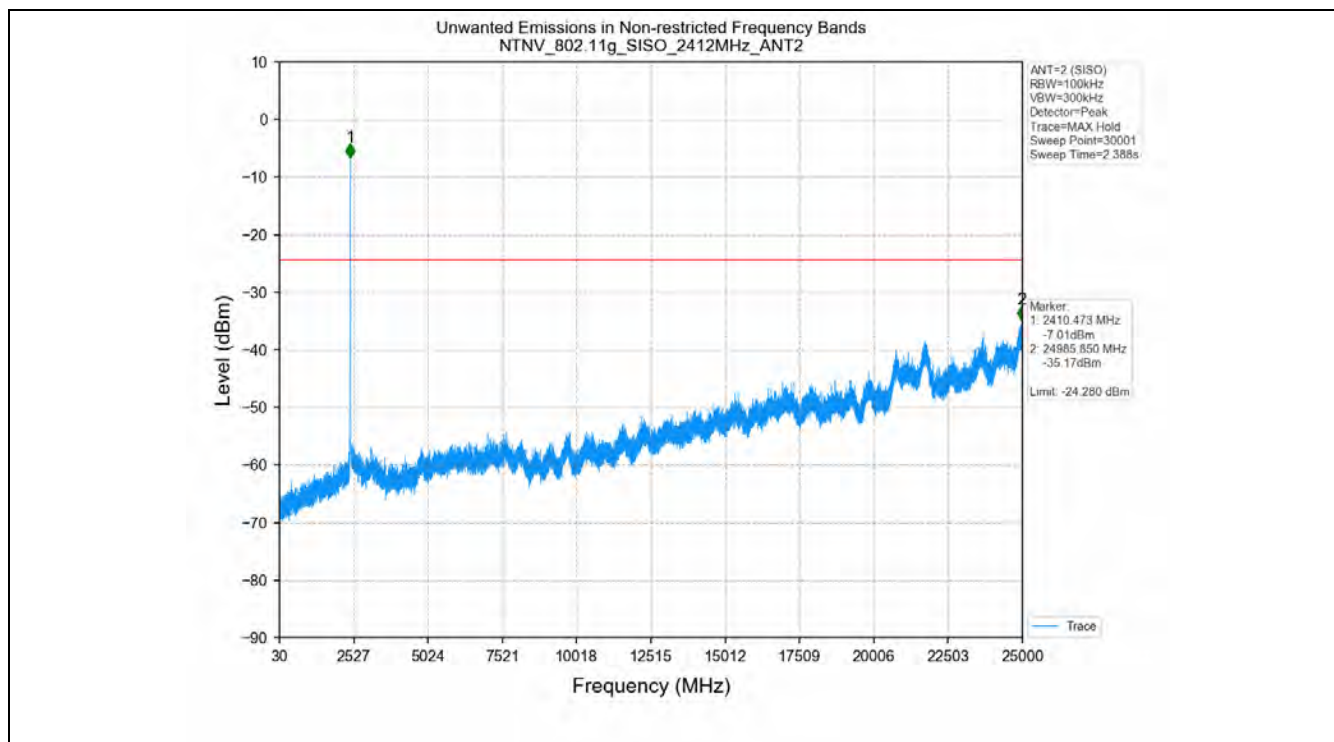


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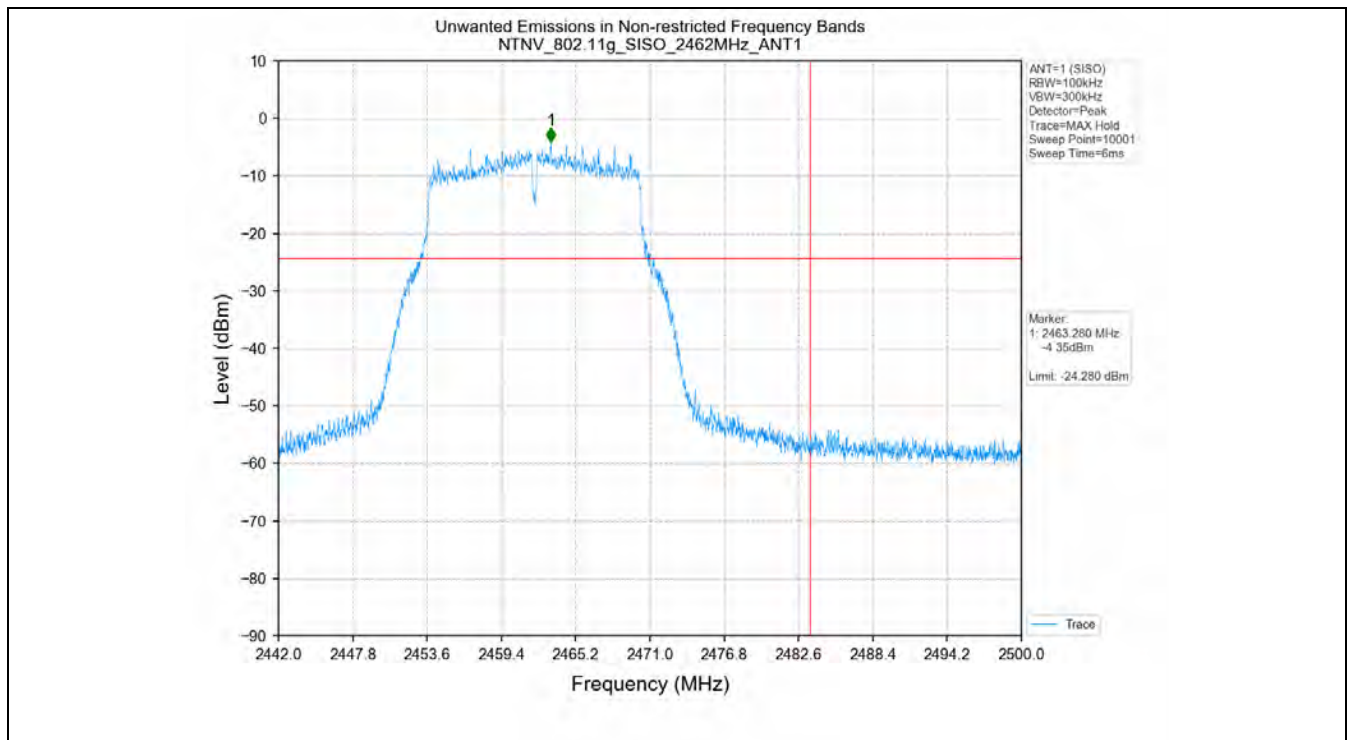
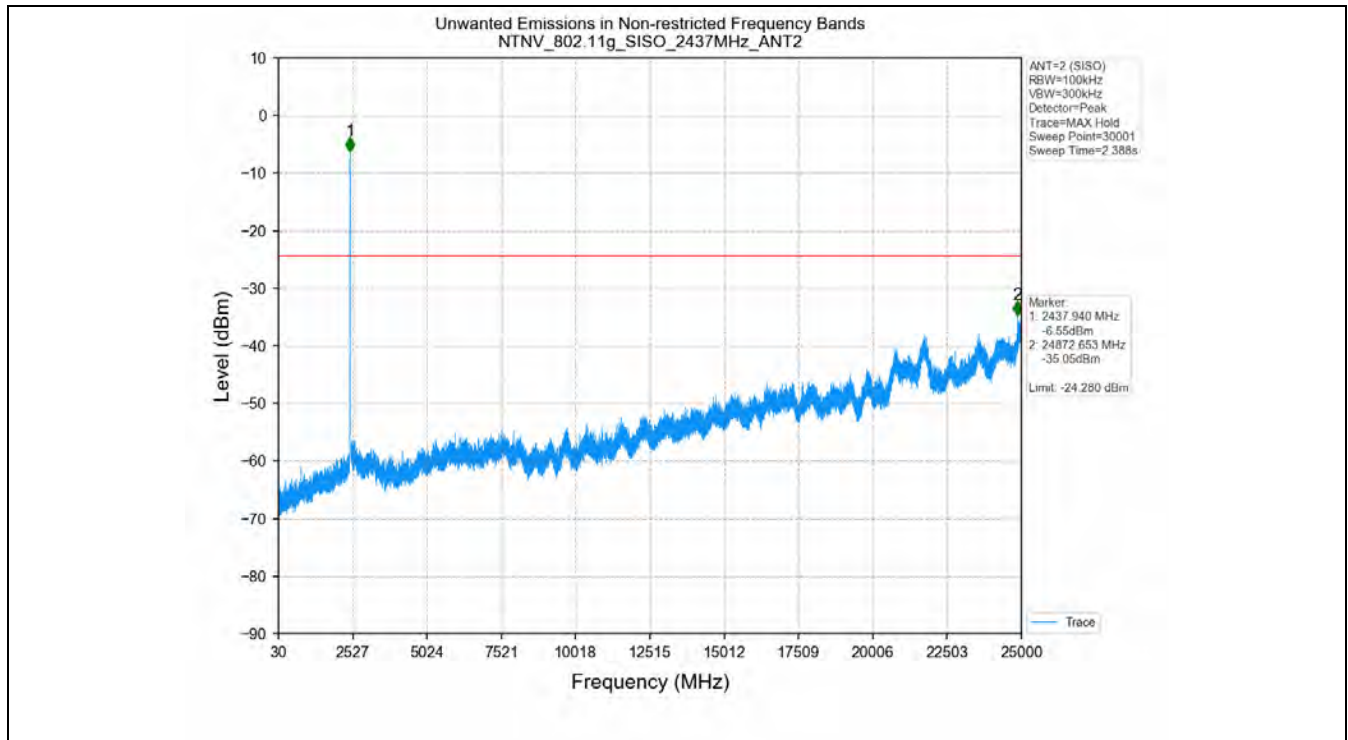


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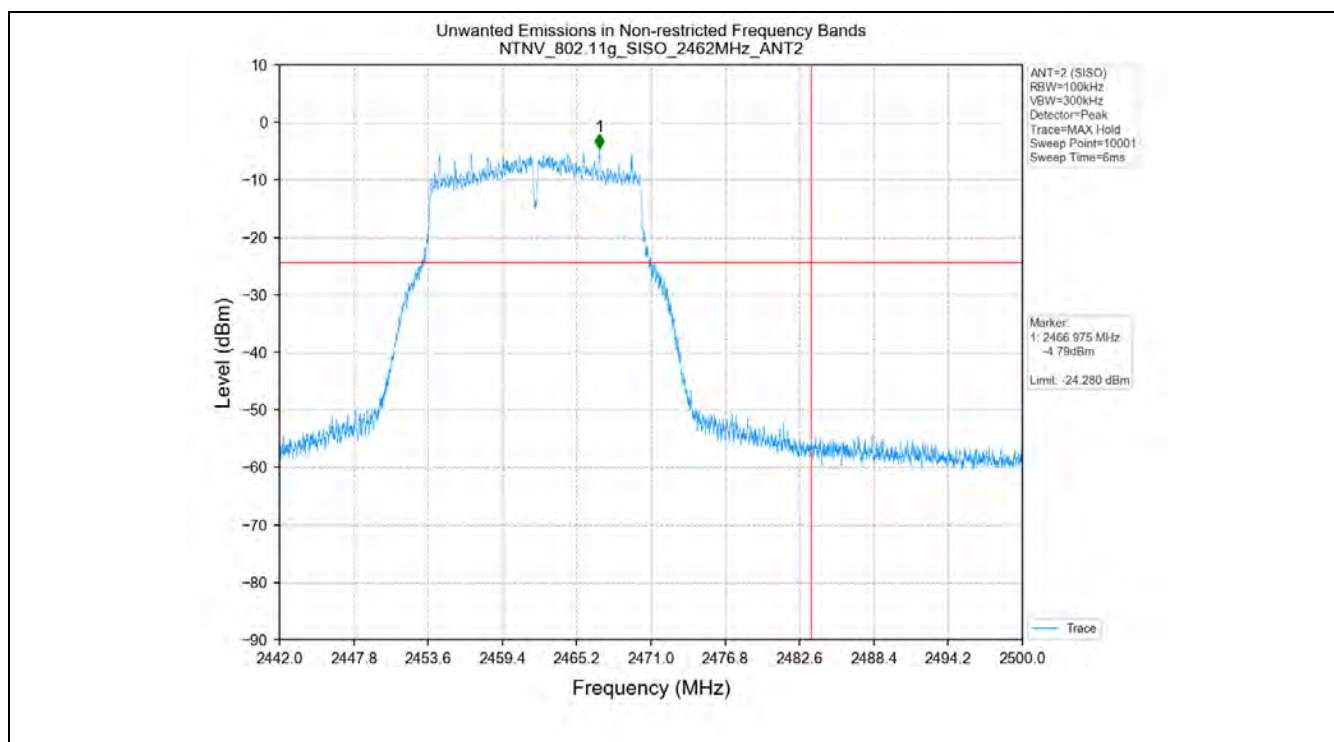
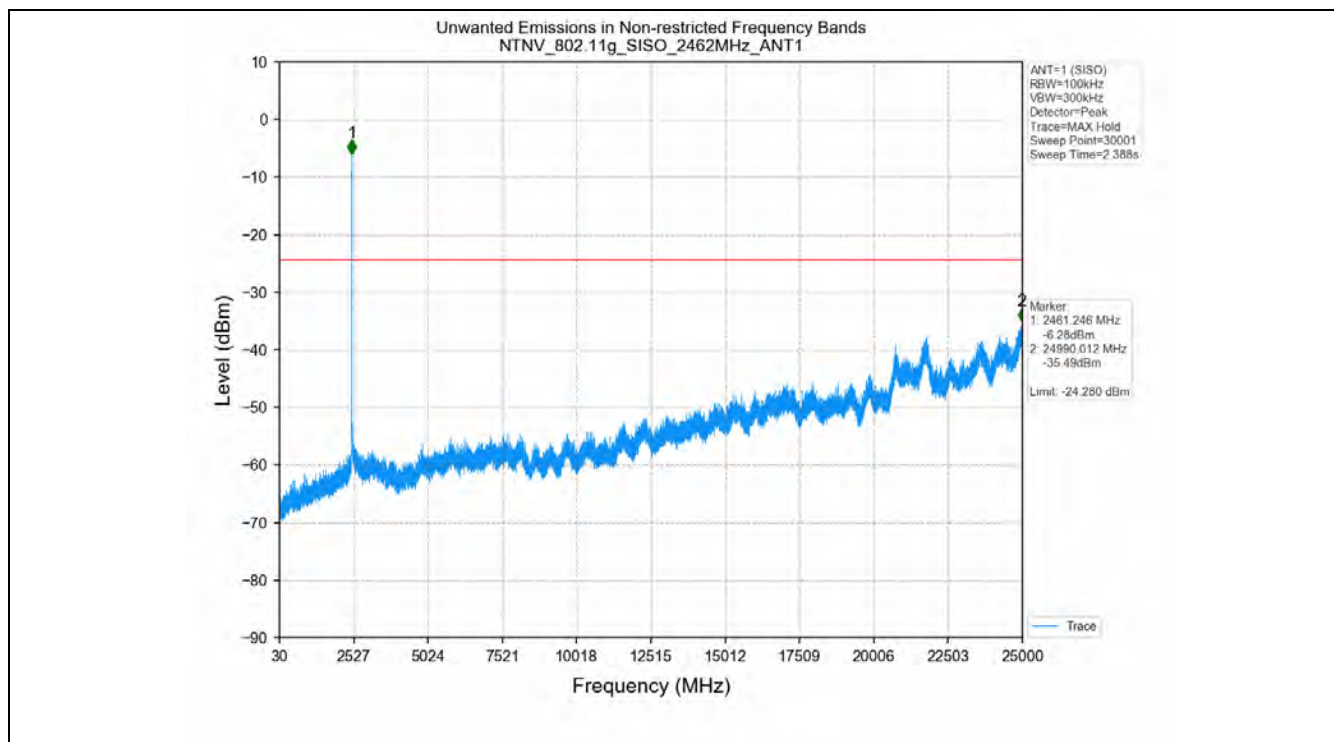


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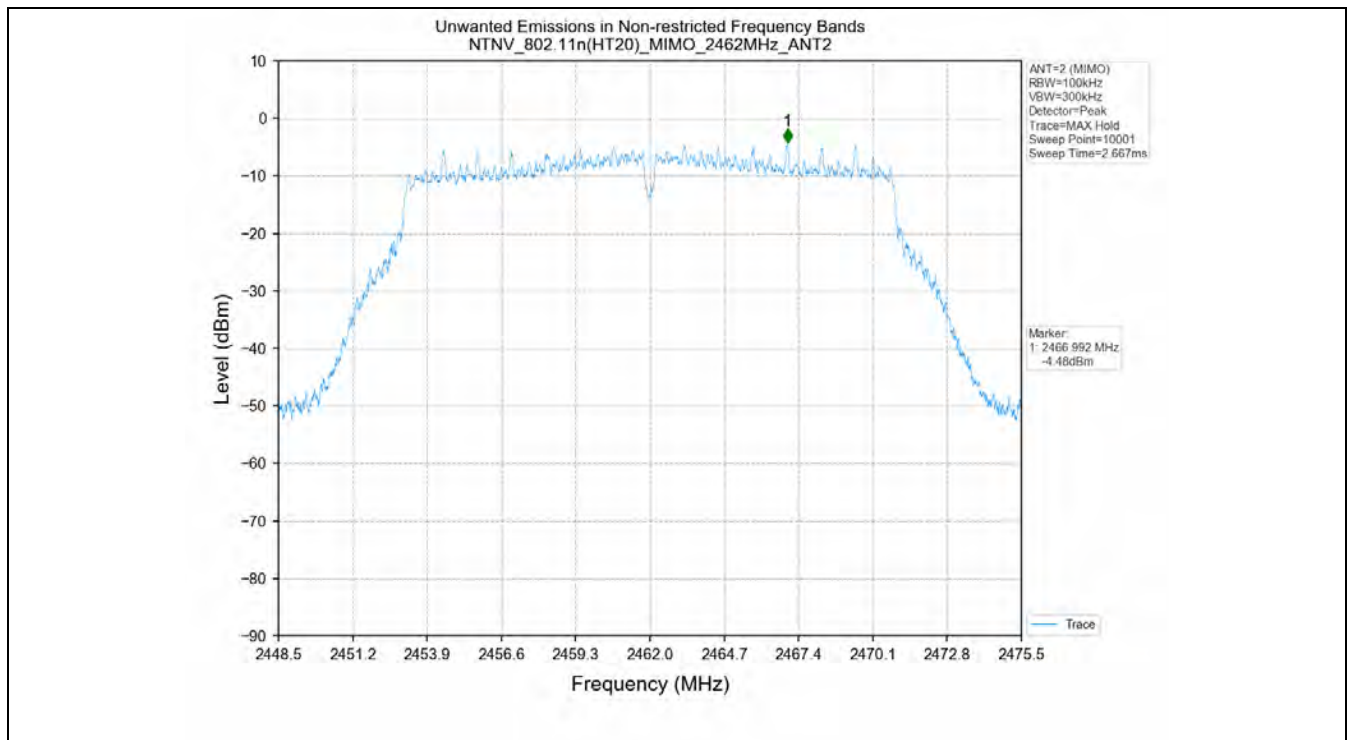
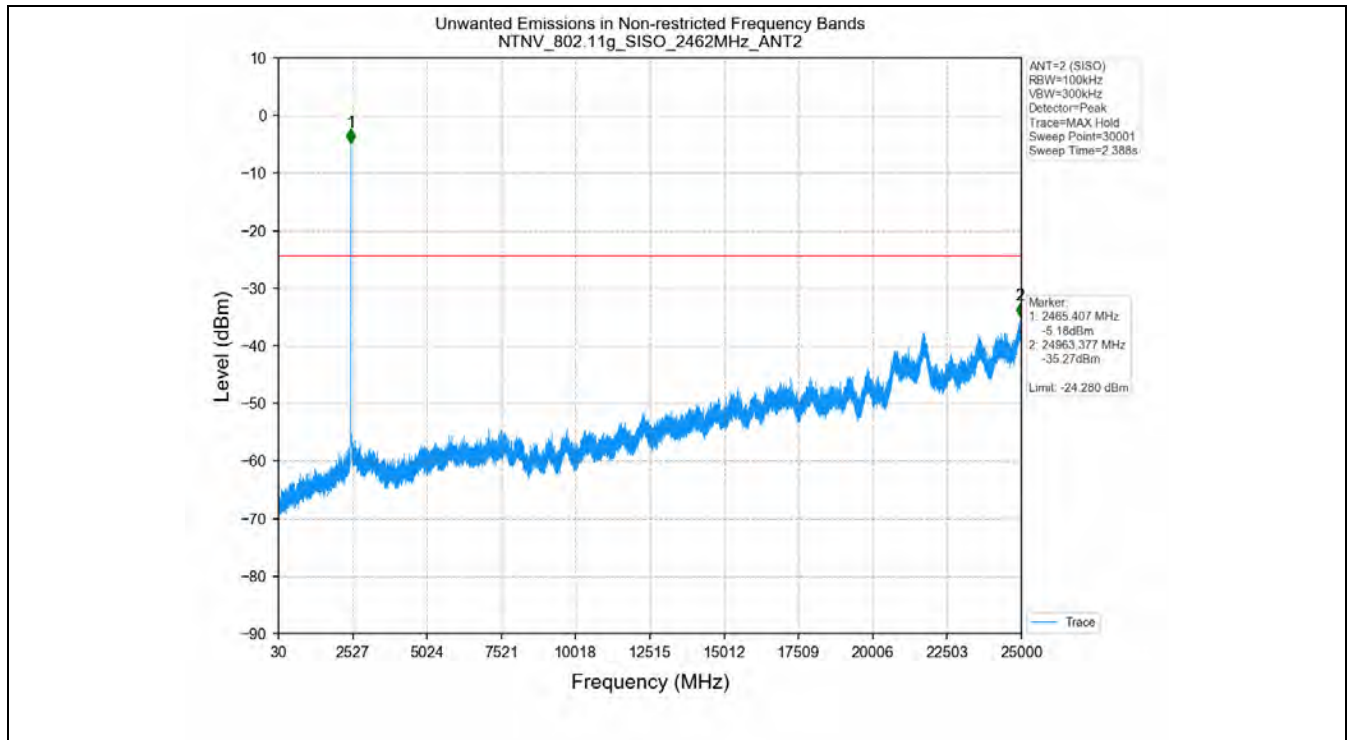


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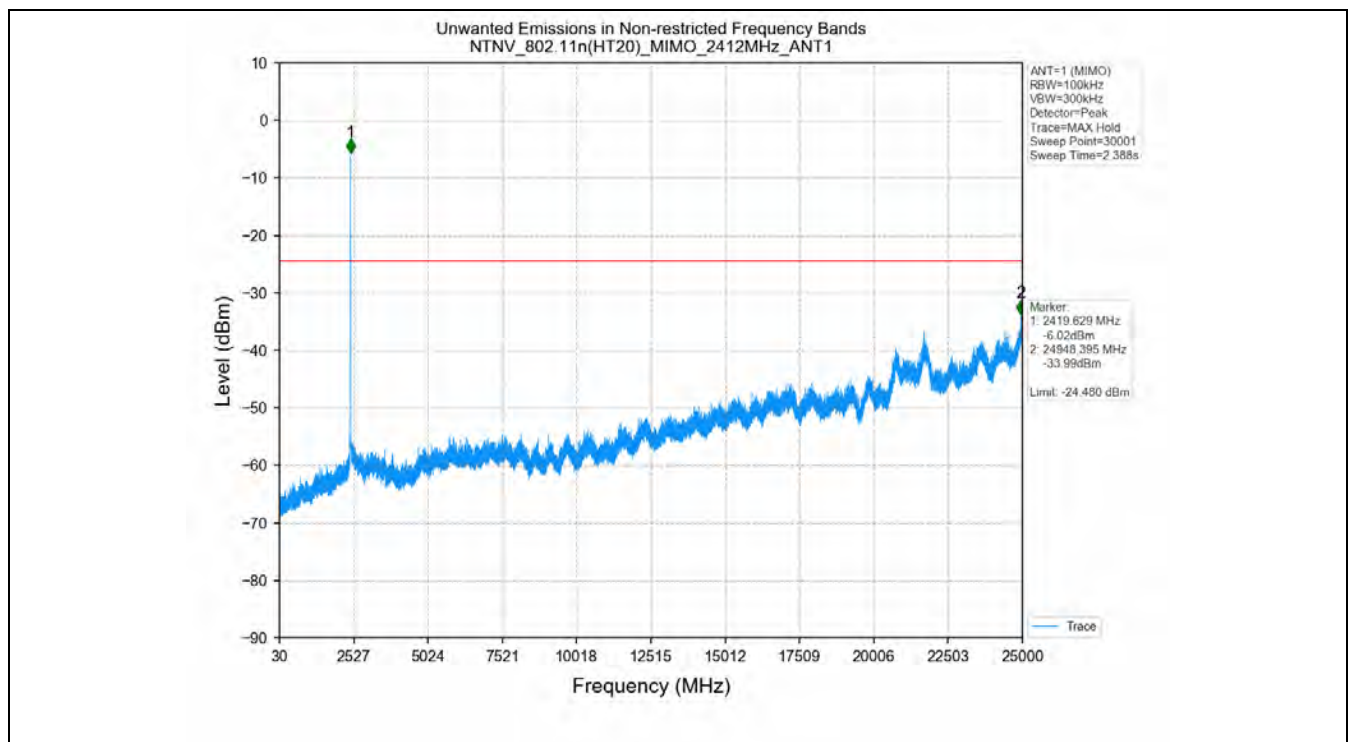
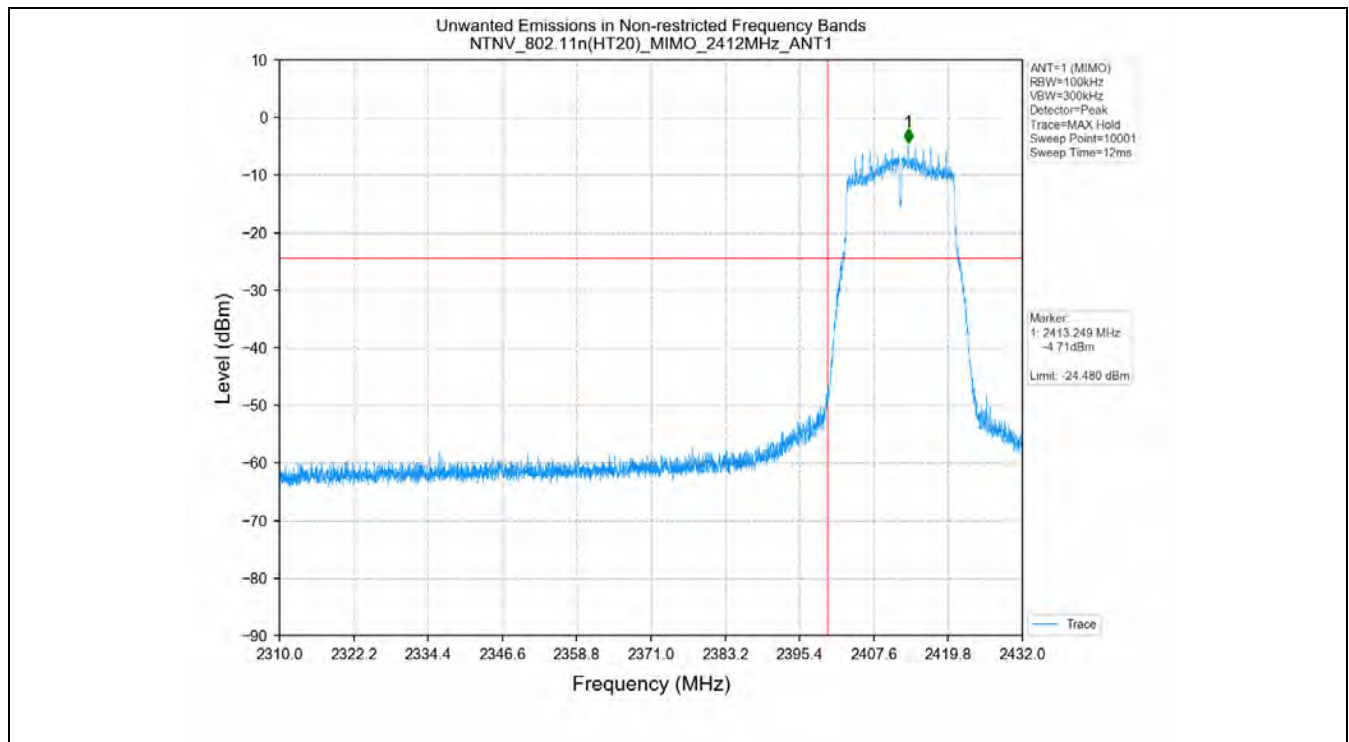


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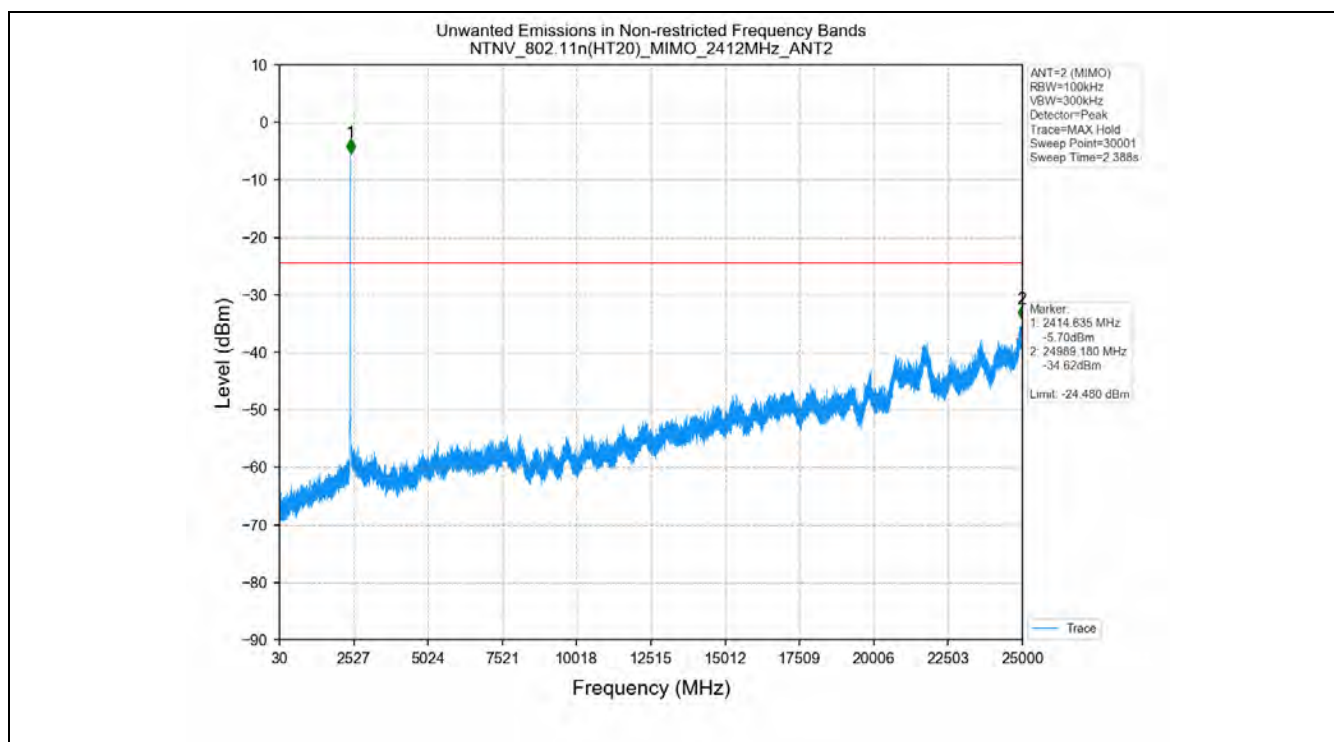
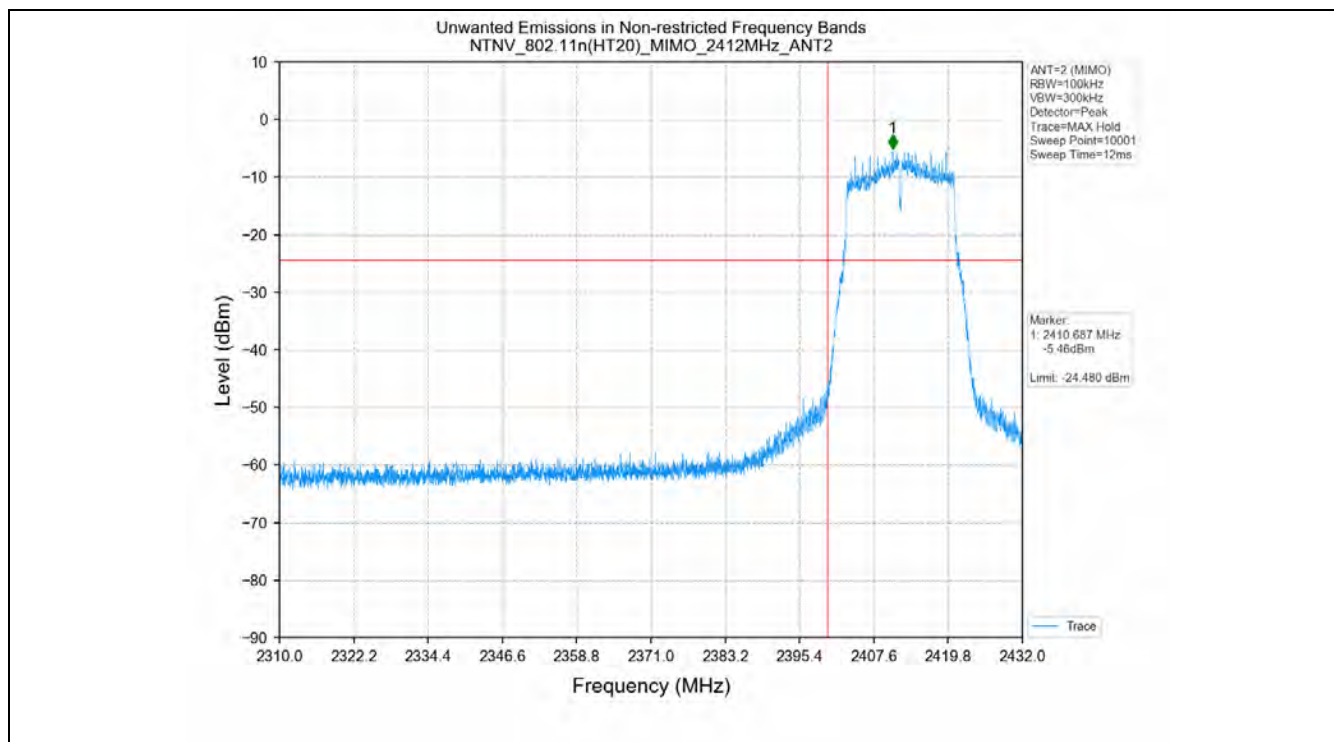


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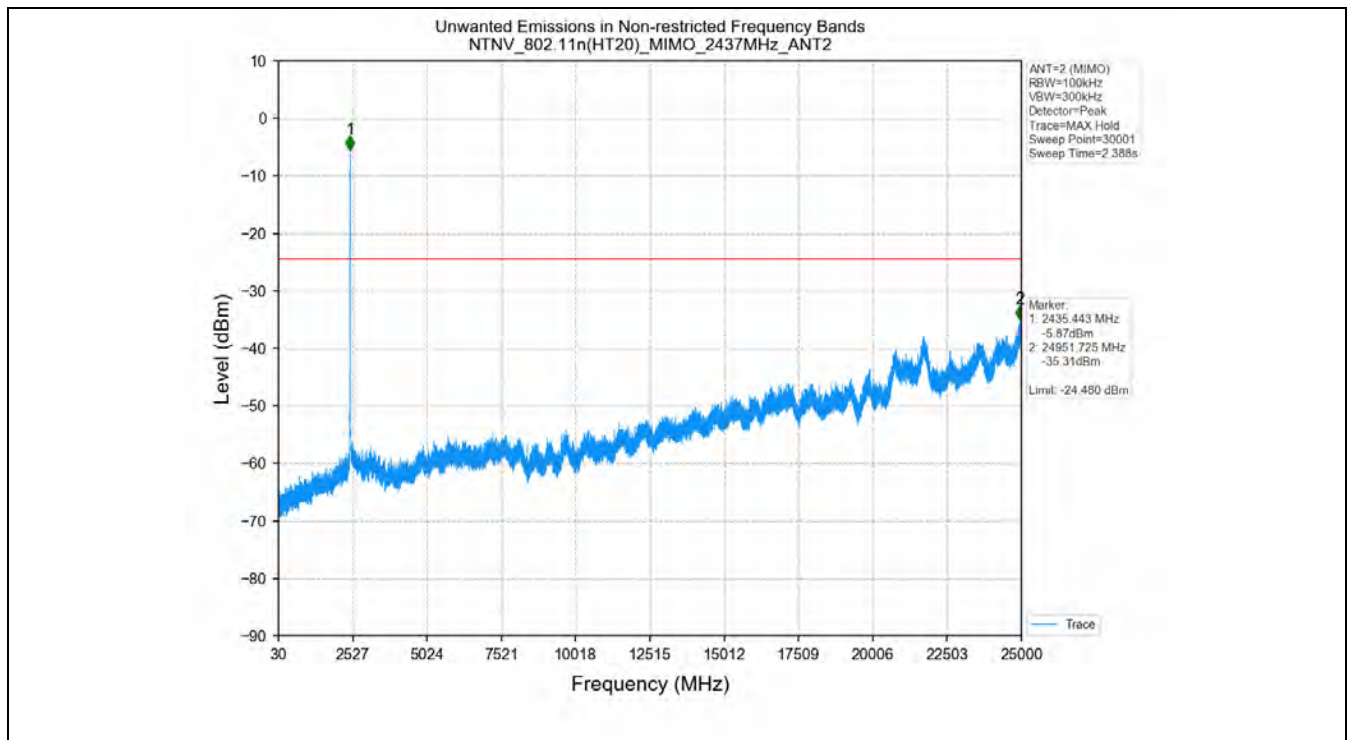
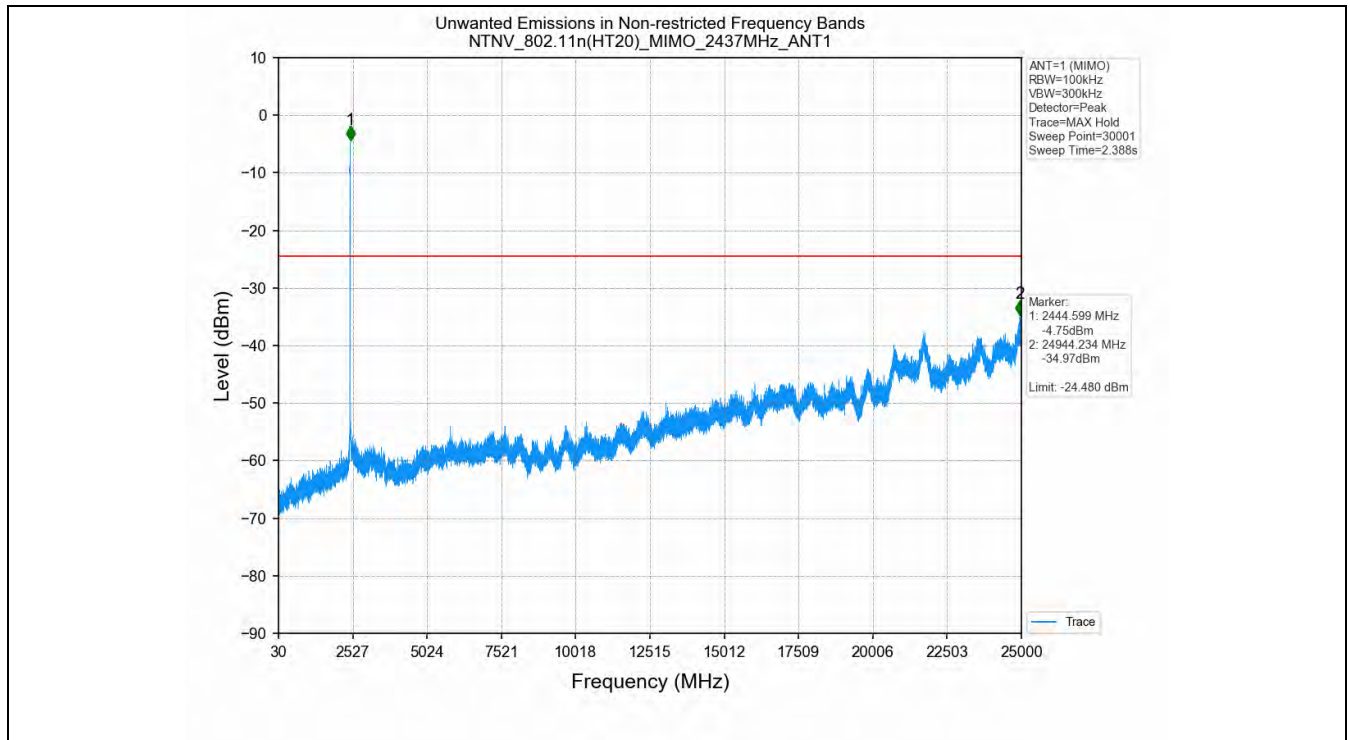


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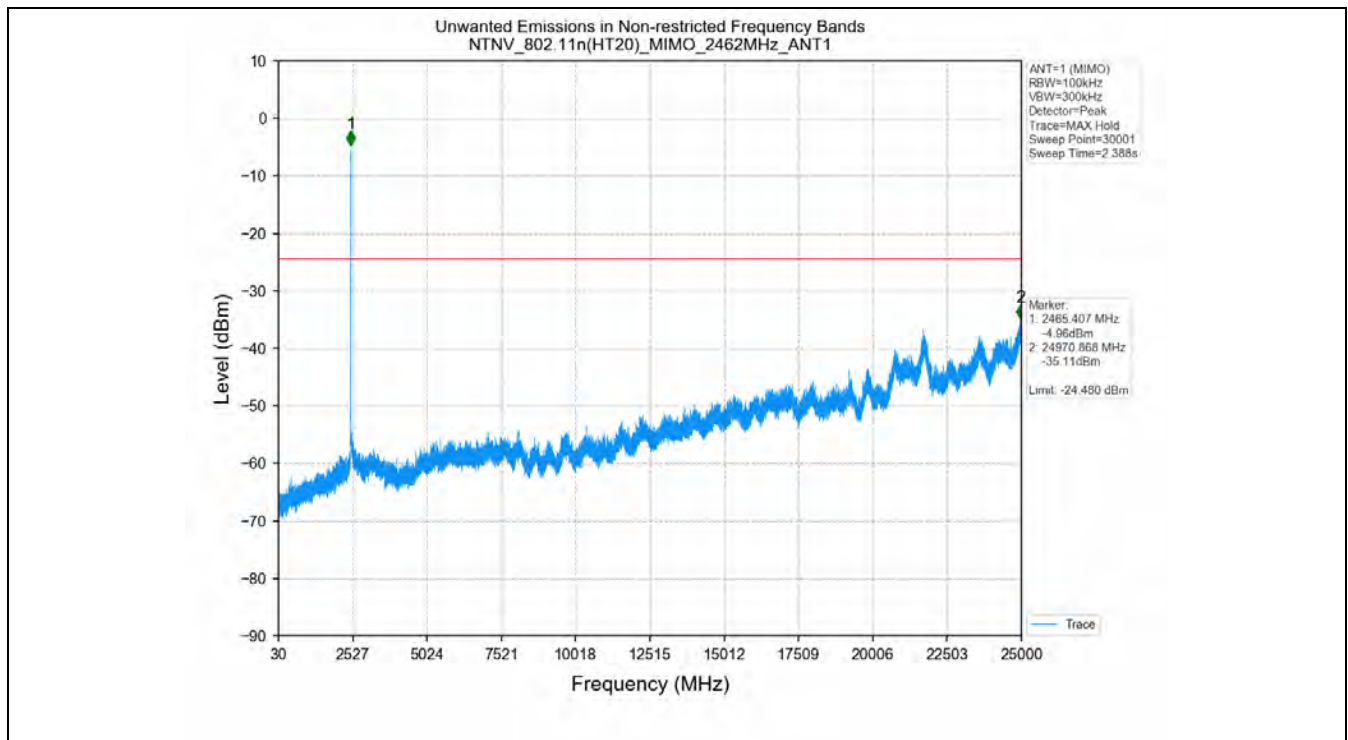
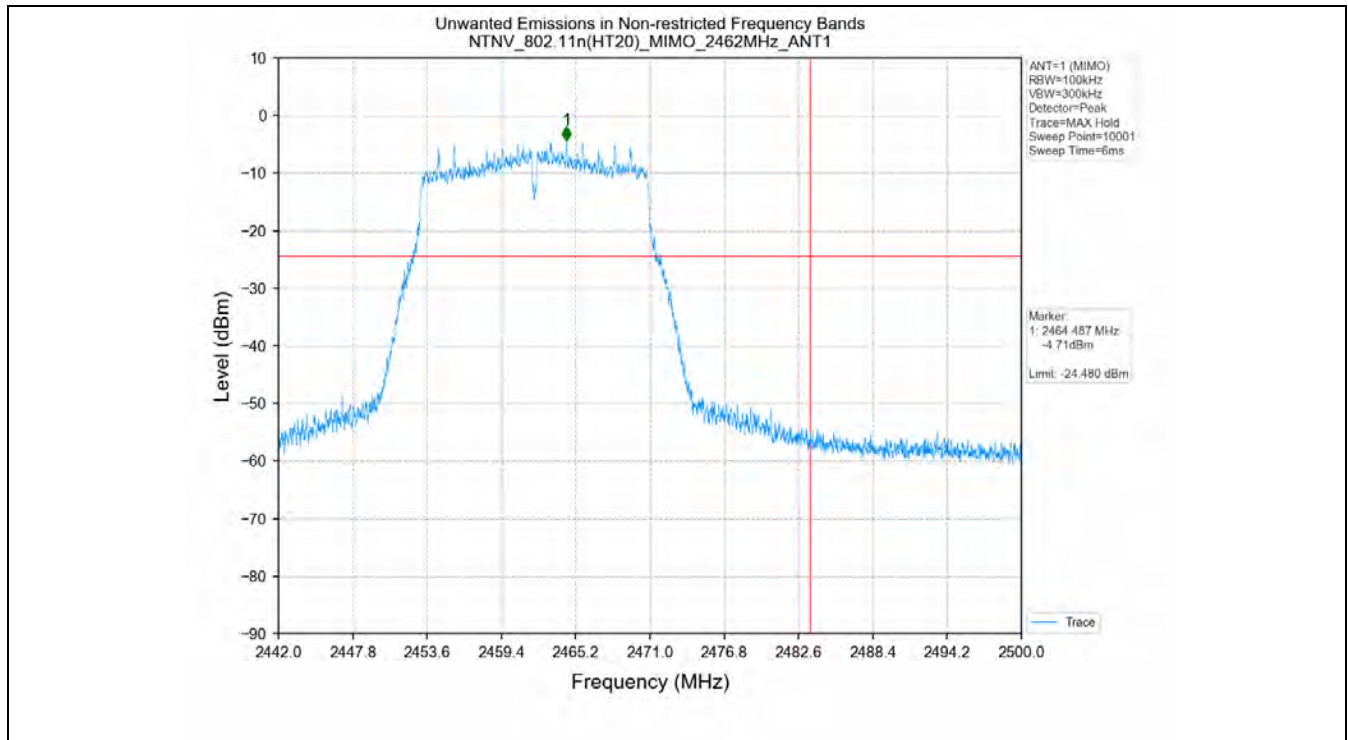


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