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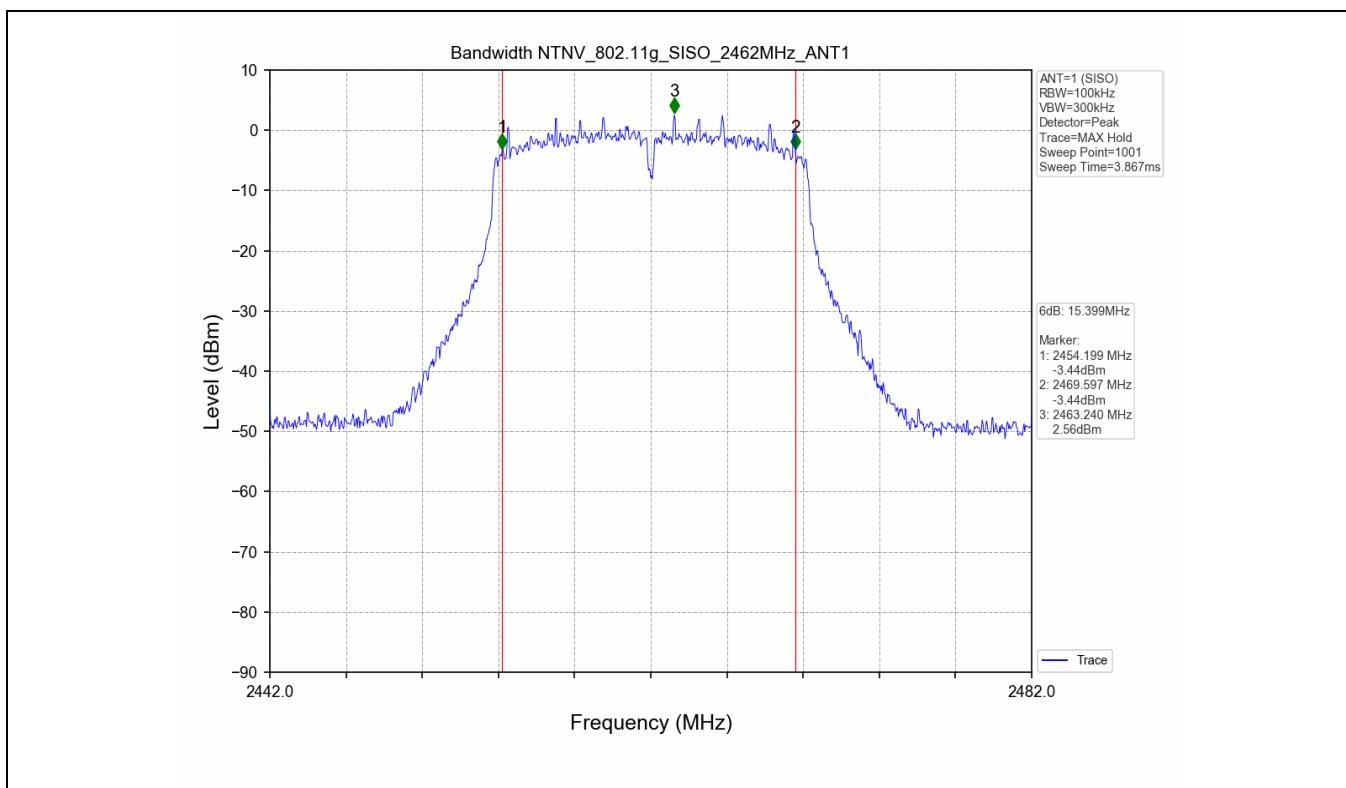
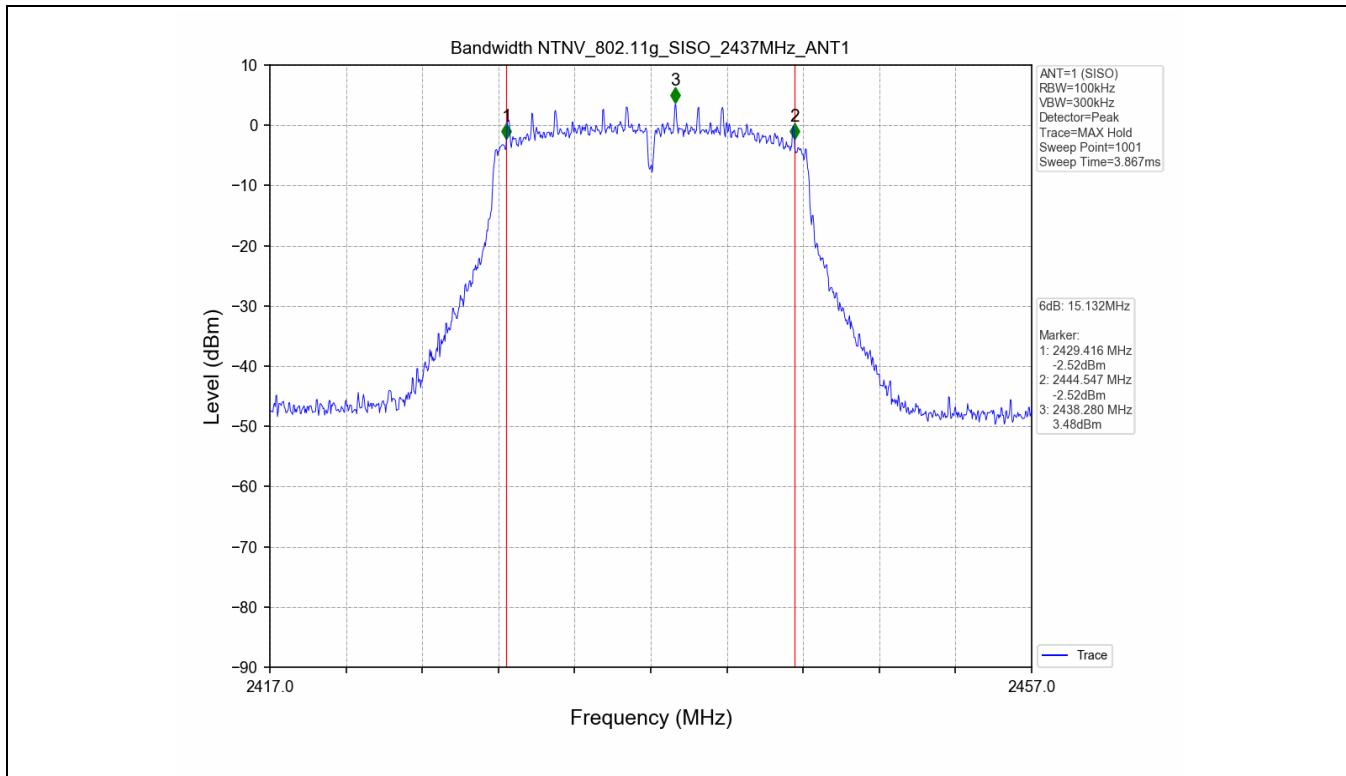
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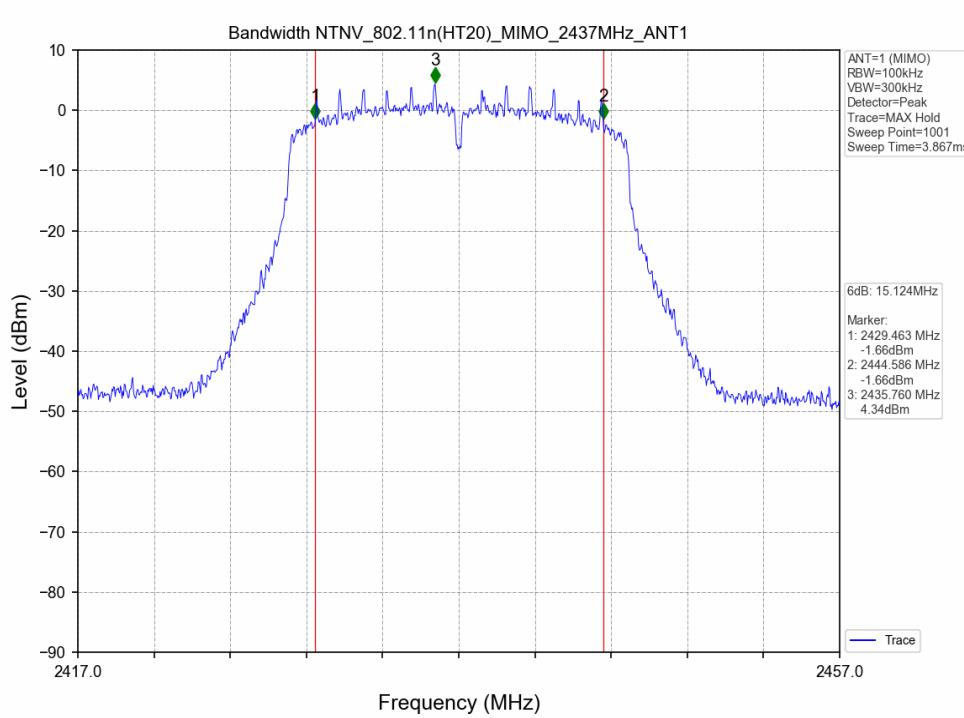
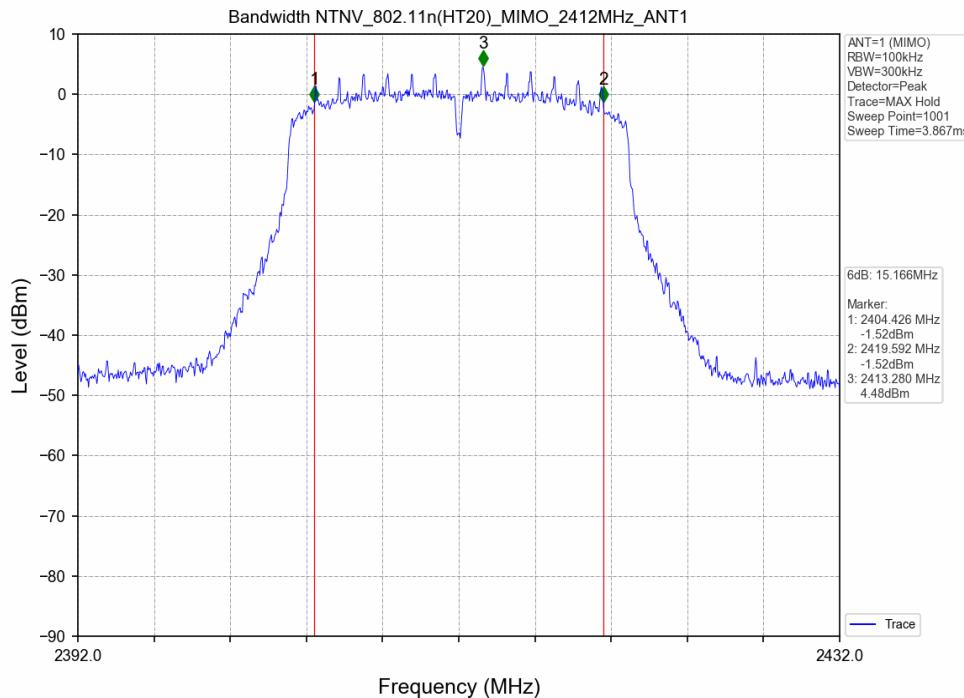


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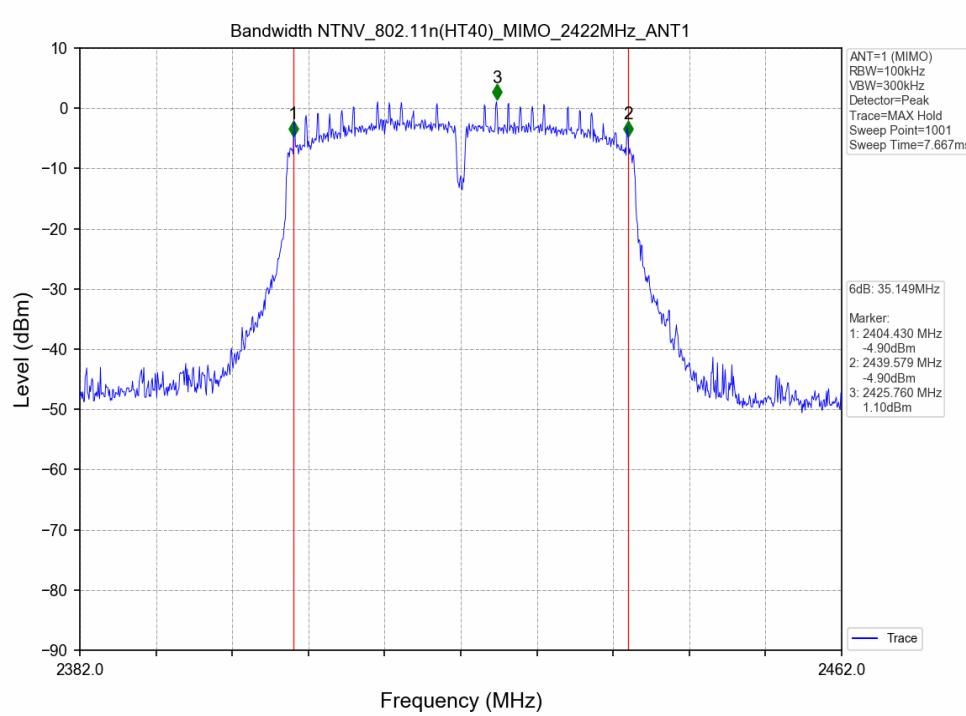
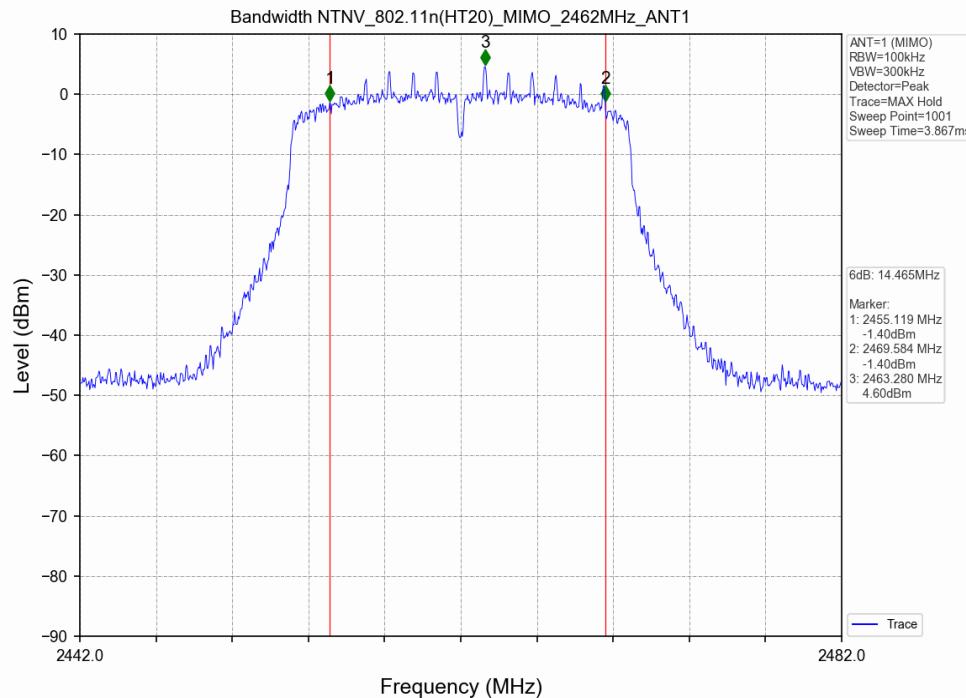
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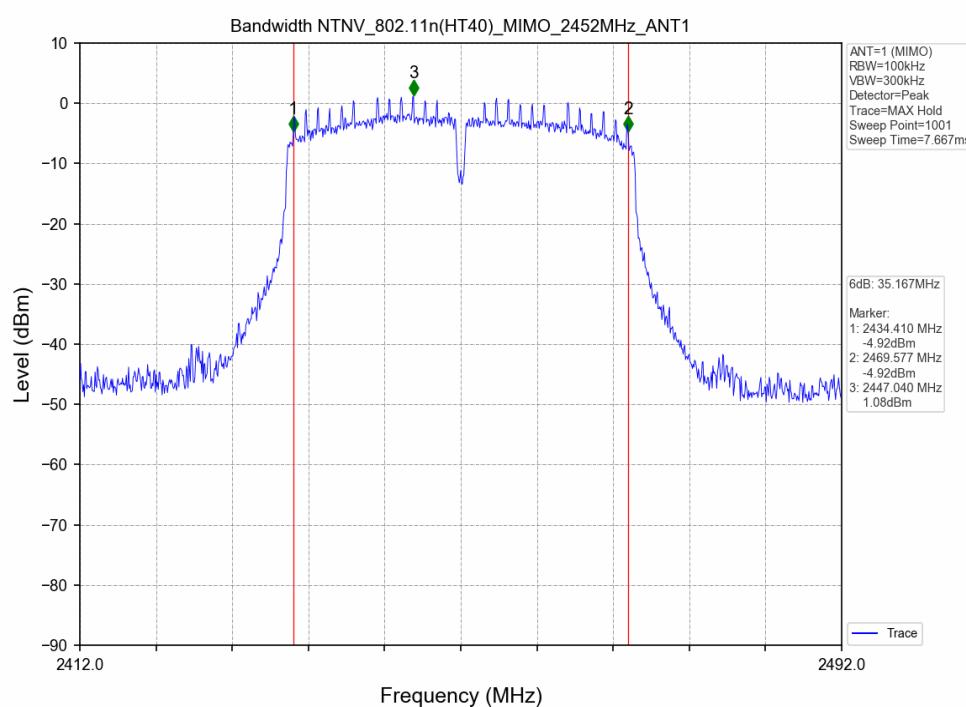
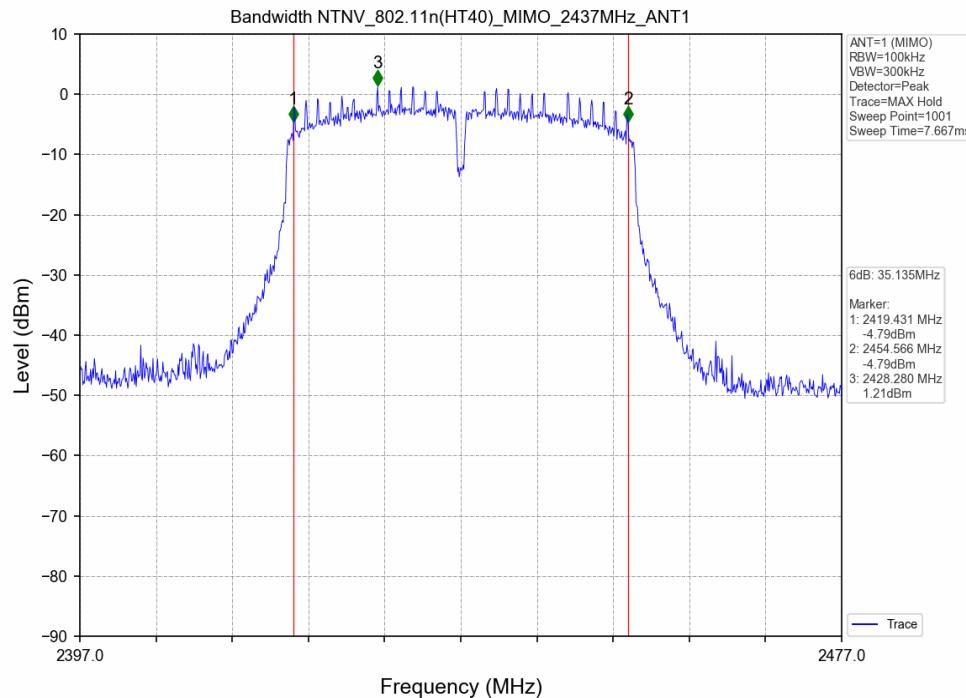
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3. Maximum Conducted Output Power

3.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)			Limits (dBm)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	15.20	14.67	/	30	PASS
	2437	SISO	15.21	14.79	/	30	PASS
	2462	SISO	14.82	14.25	/	30	PASS
802.11g	2412	SISO	13.61	12.91	/	30	PASS
	2437	SISO	13.80	13.14	/	30	PASS
	2462	SISO	13.31	12.53	/	30	PASS
802.11n(HT20)	2412	MIMO	14.36	14.66	17.52	See note	PASS
	2437	MIMO	14.48	14.90	17.71	See note	PASS
	2462	MIMO	14.00	14.31	17.17	See note	PASS
802.11n(HT40)	2422	MIMO	14.76	15.02	17.90	See note	PASS
	2437	MIMO	14.64	15.23	17.96	See note	PASS
	2452	MIMO	14.55	14.84	17.71	See note	PASS

*Remark

For Sinclair antenna:

Since the number of transmit antennas is less than 4, Array gain=0dB.

So, the limit of 802.11b/g/n is 30.00dBm.

For SANAV antenna:

Directional gain = $G_{ANT}+10\log(N_{ANT}/N_{SS})$ = 4.55+10 $\log(2/1)$ =7.56dBi.

So, the limit of 802.11b/g/n is 28.44dBm.

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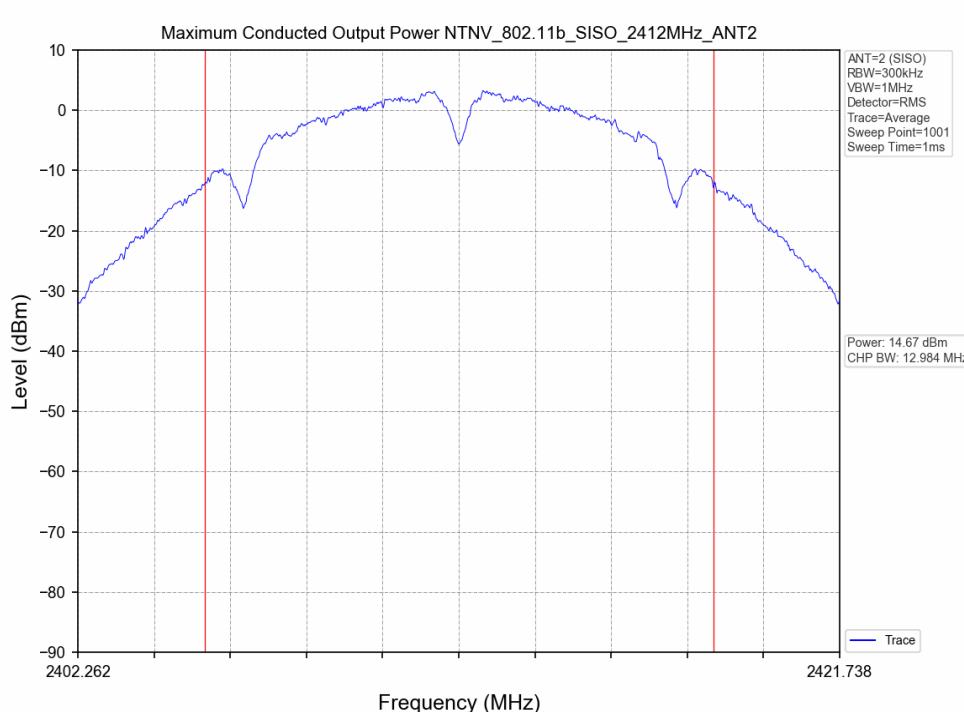
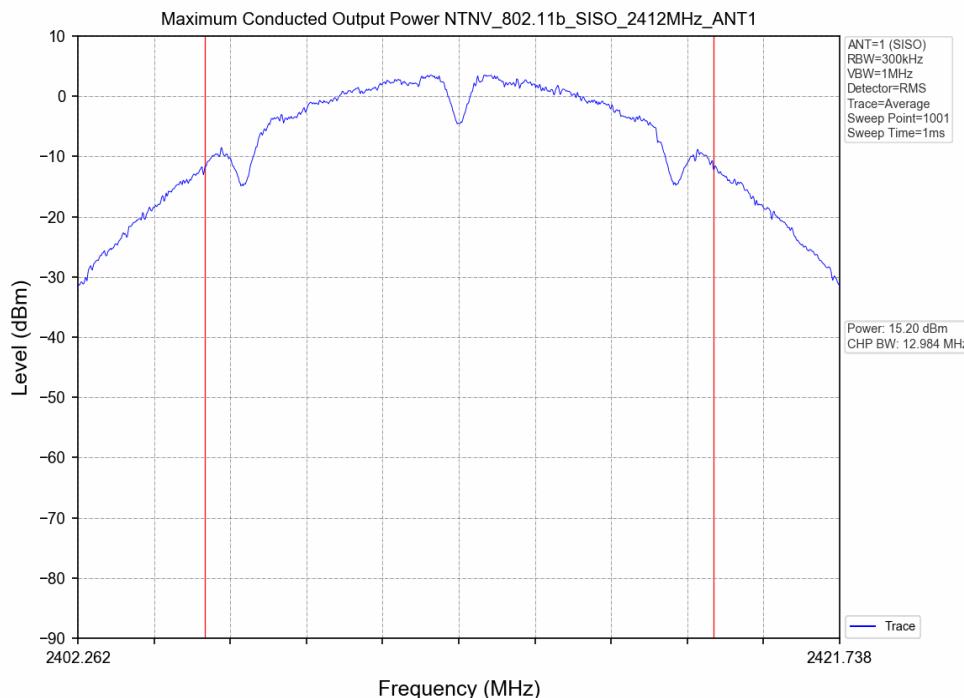
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3.2 Test Graph



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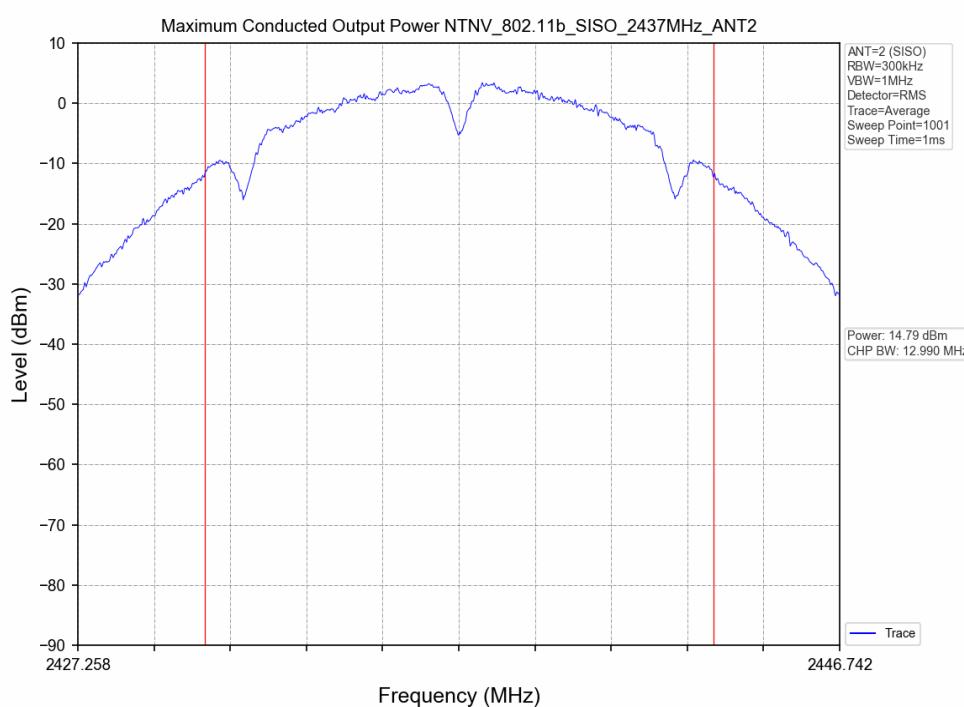
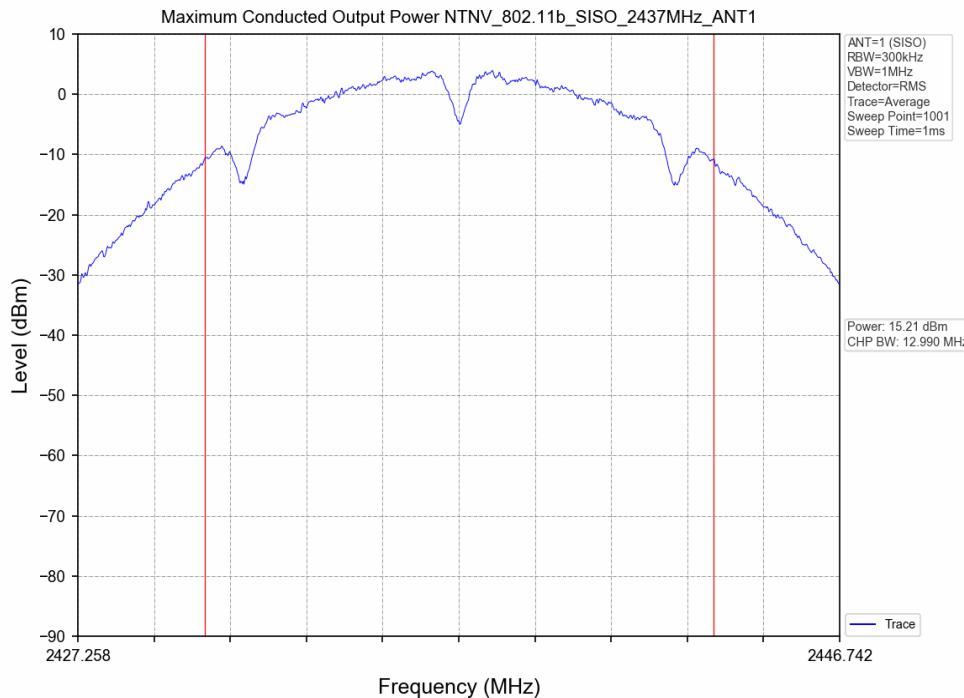


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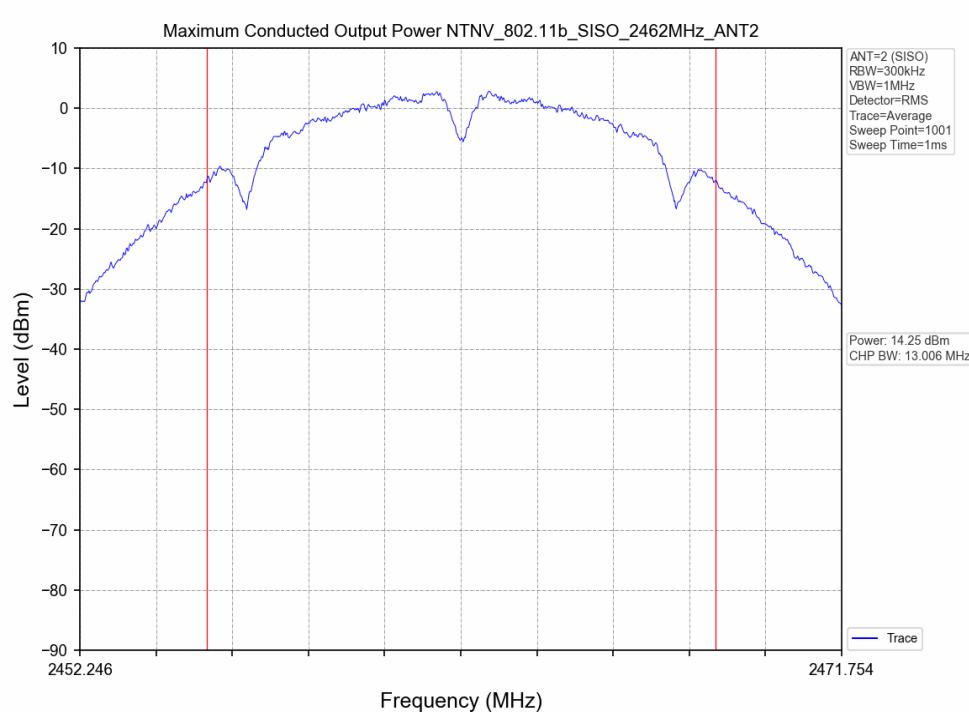
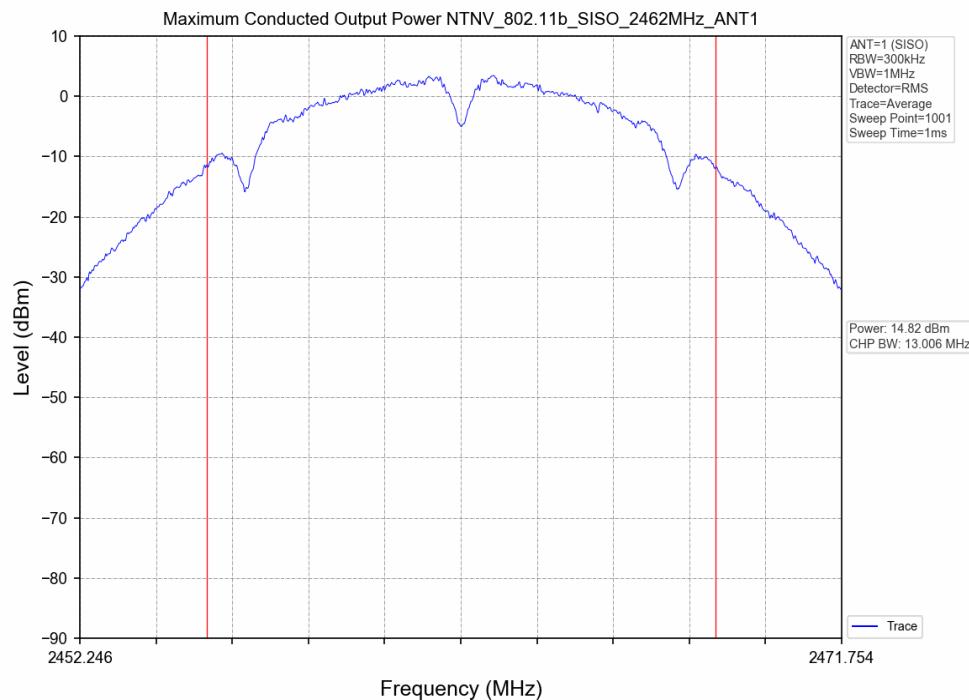
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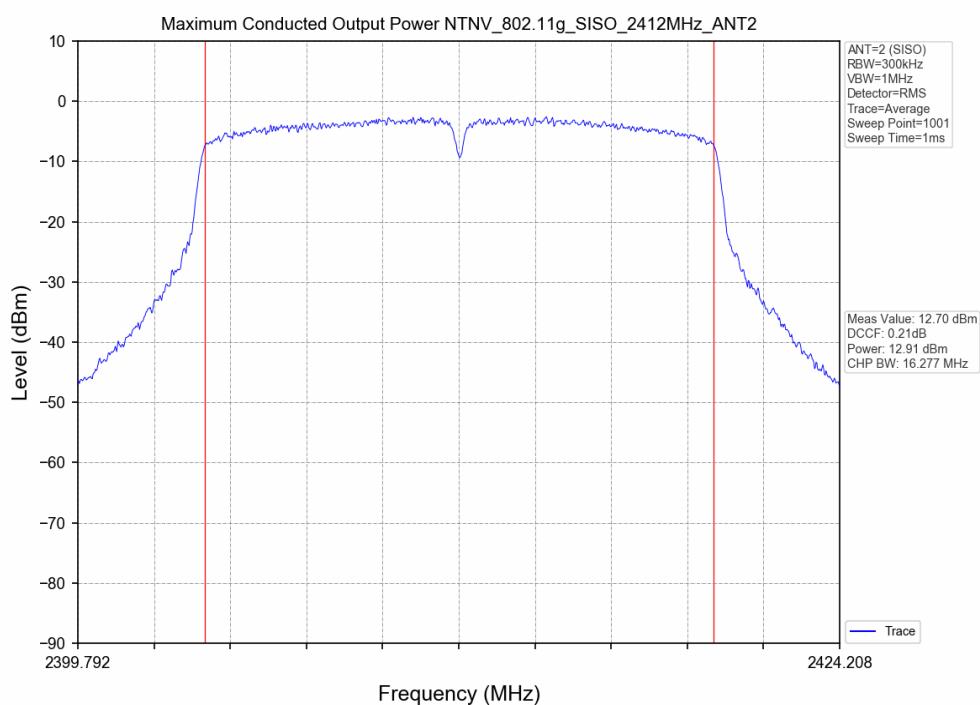
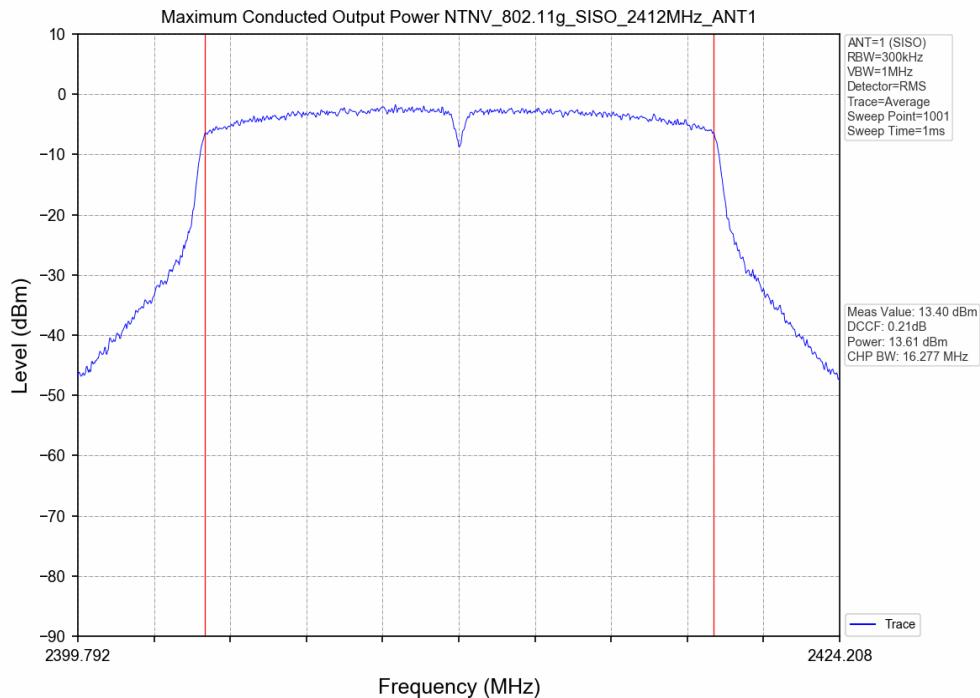
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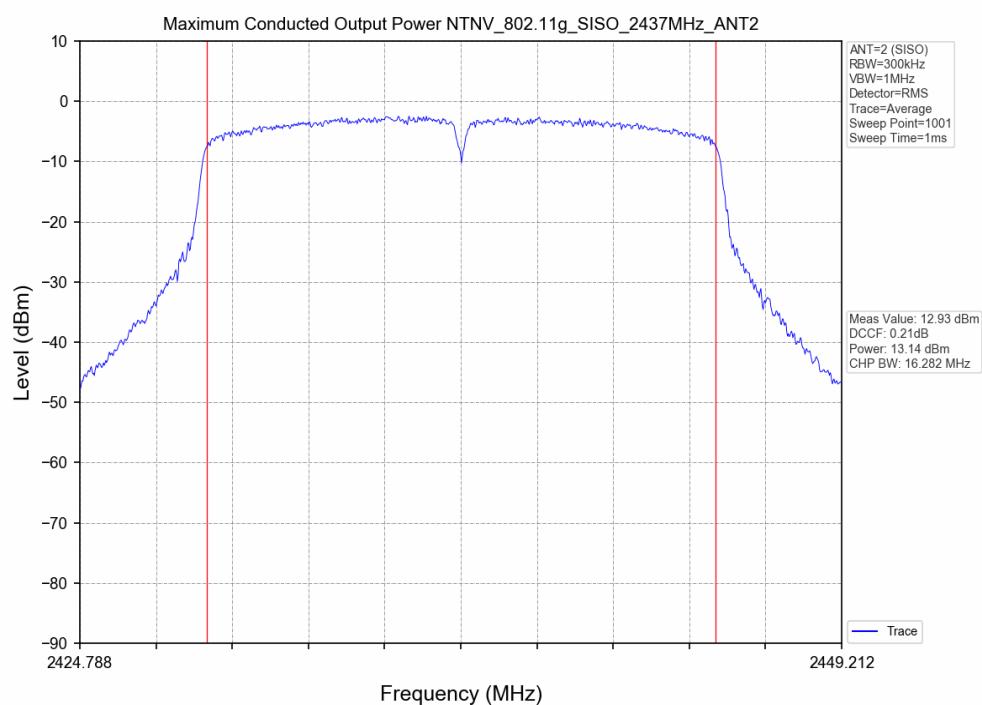
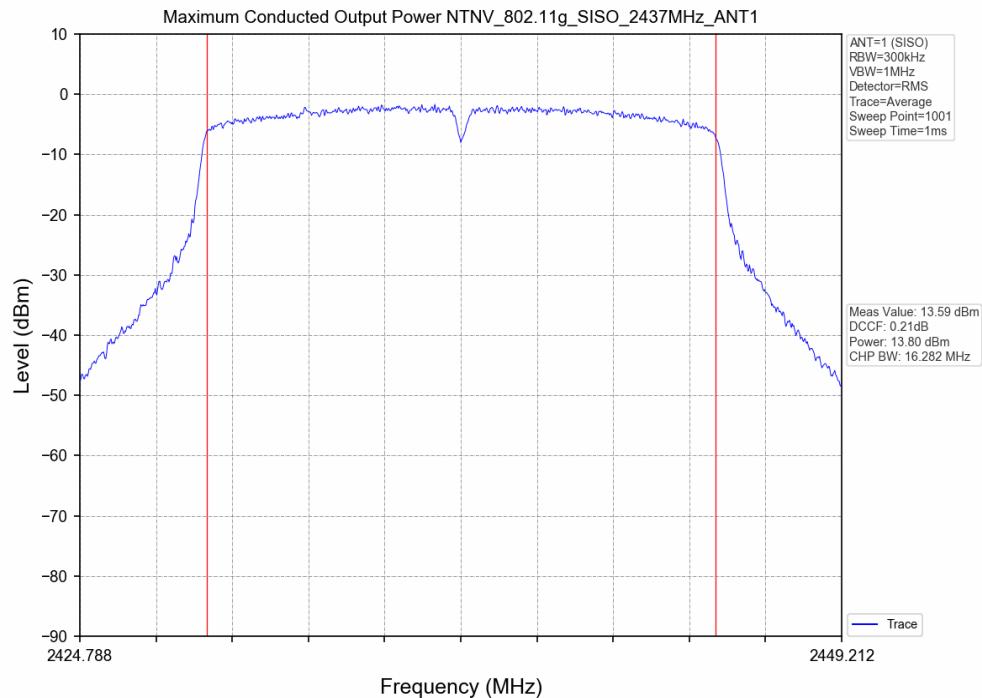
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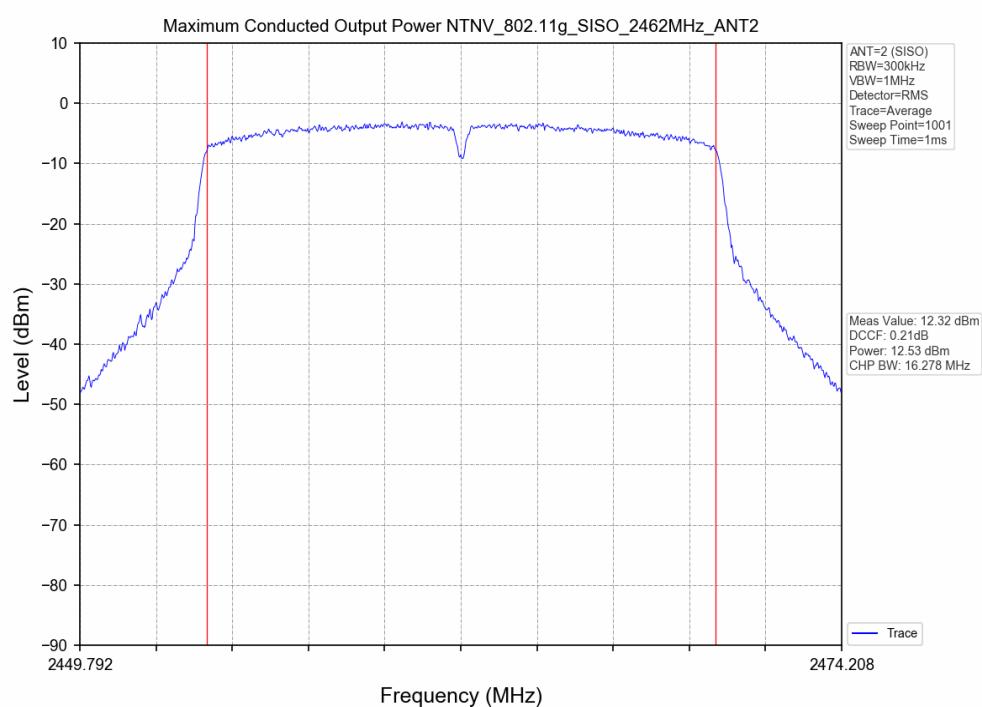
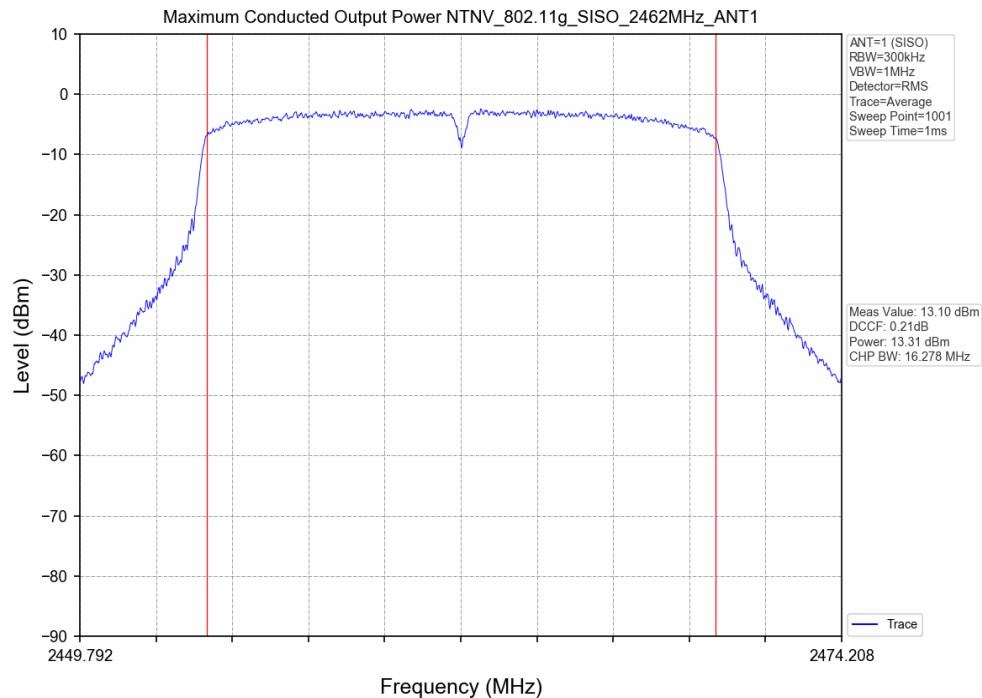
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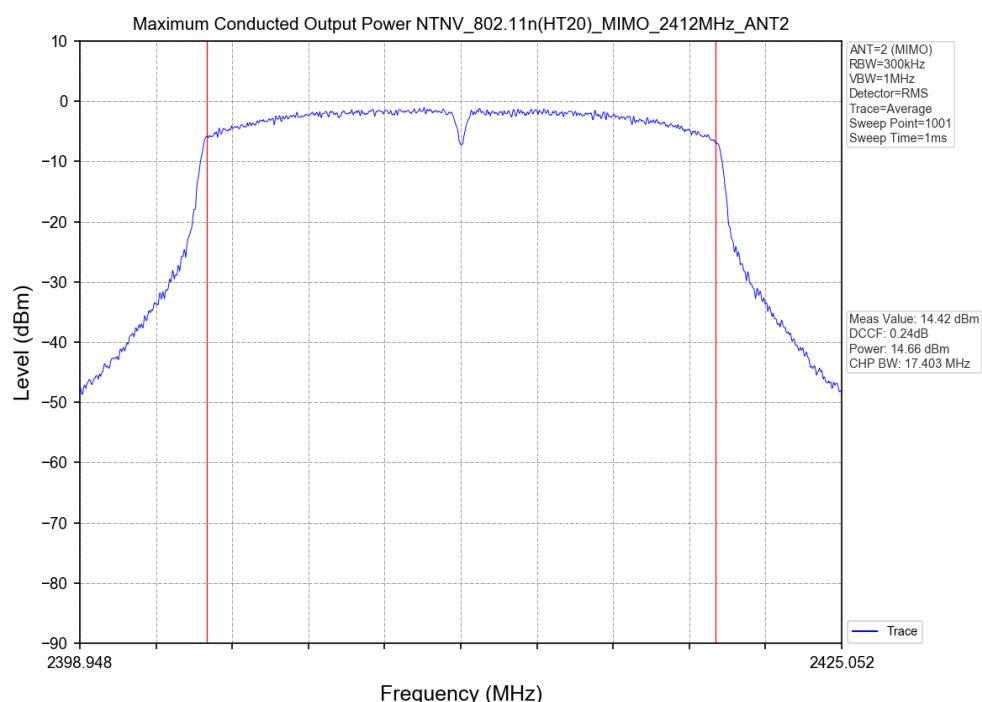
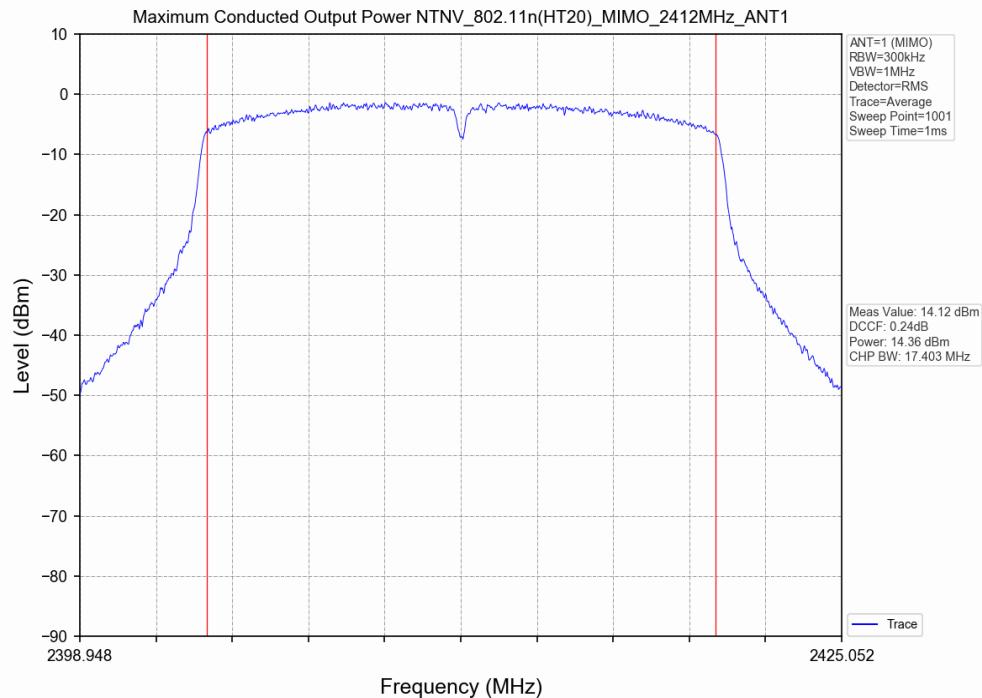
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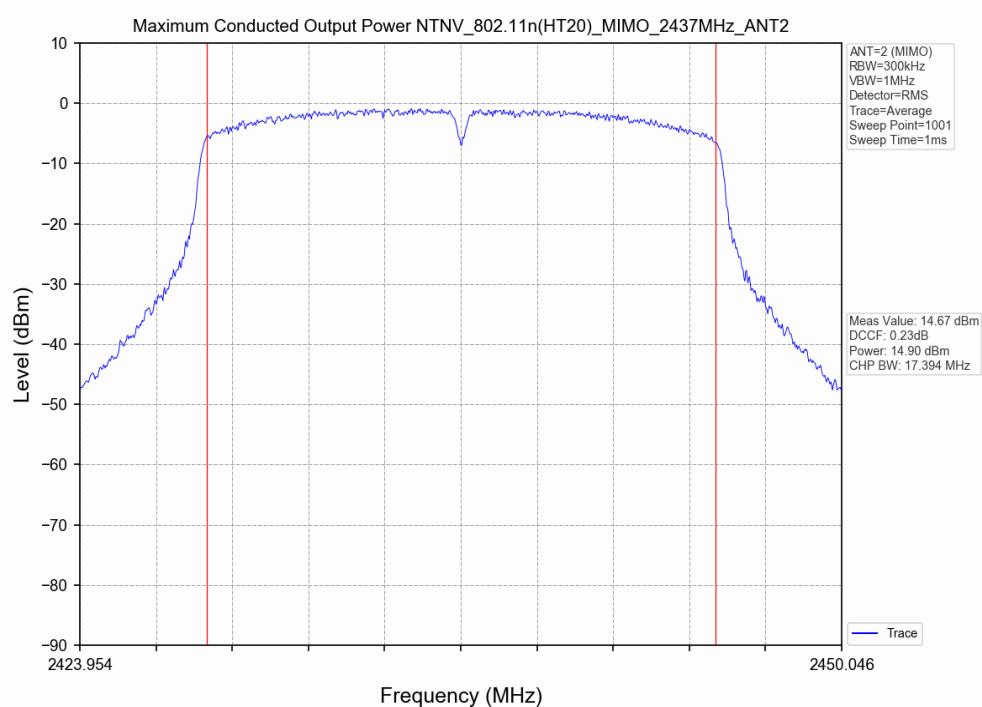
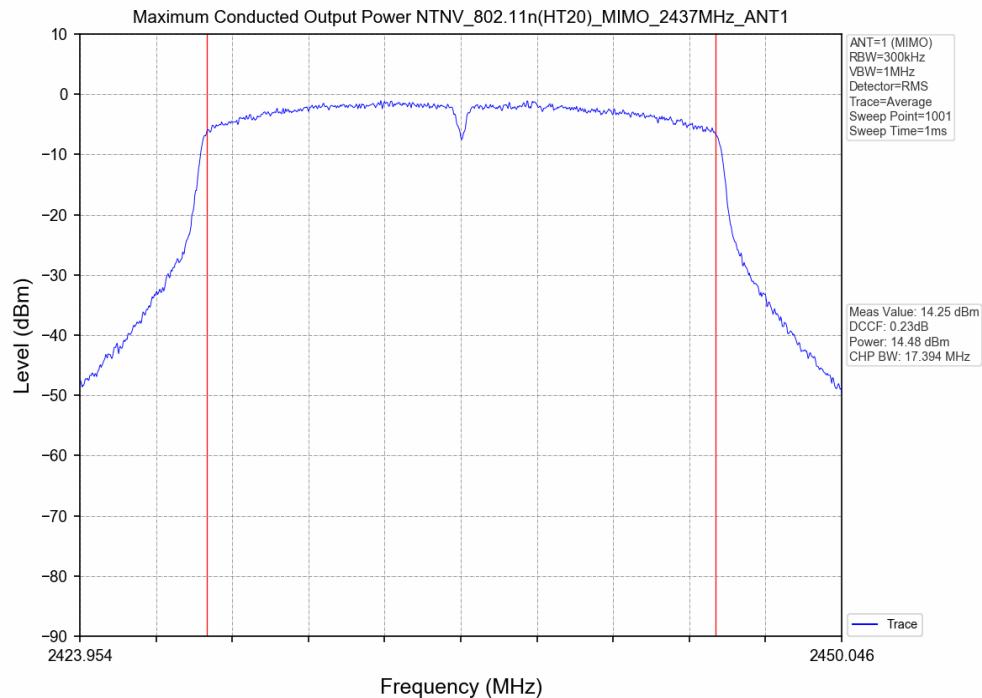
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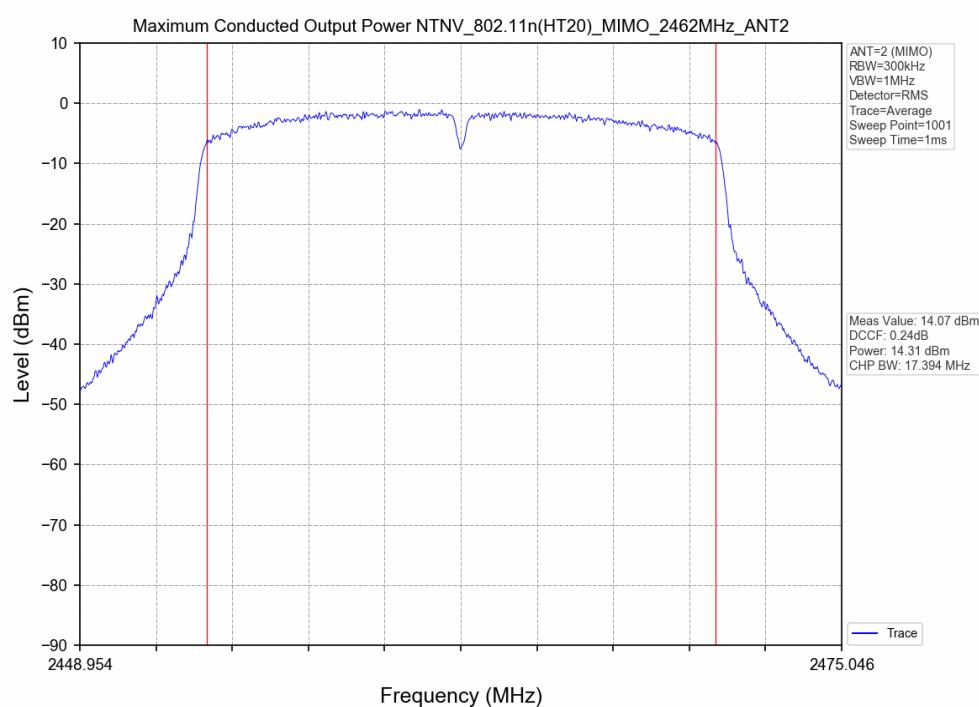
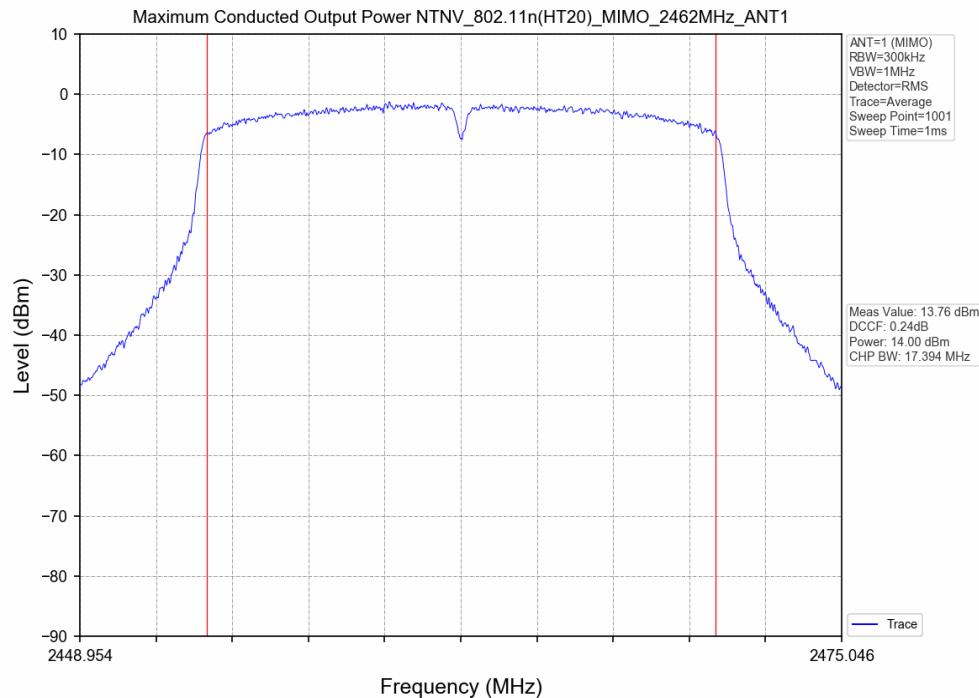
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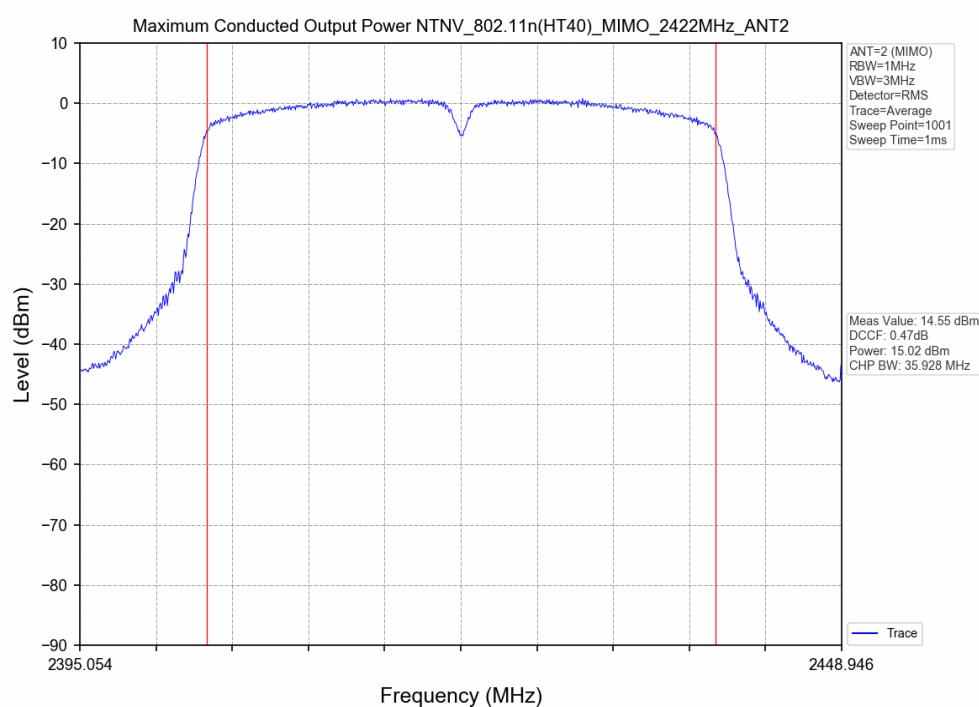
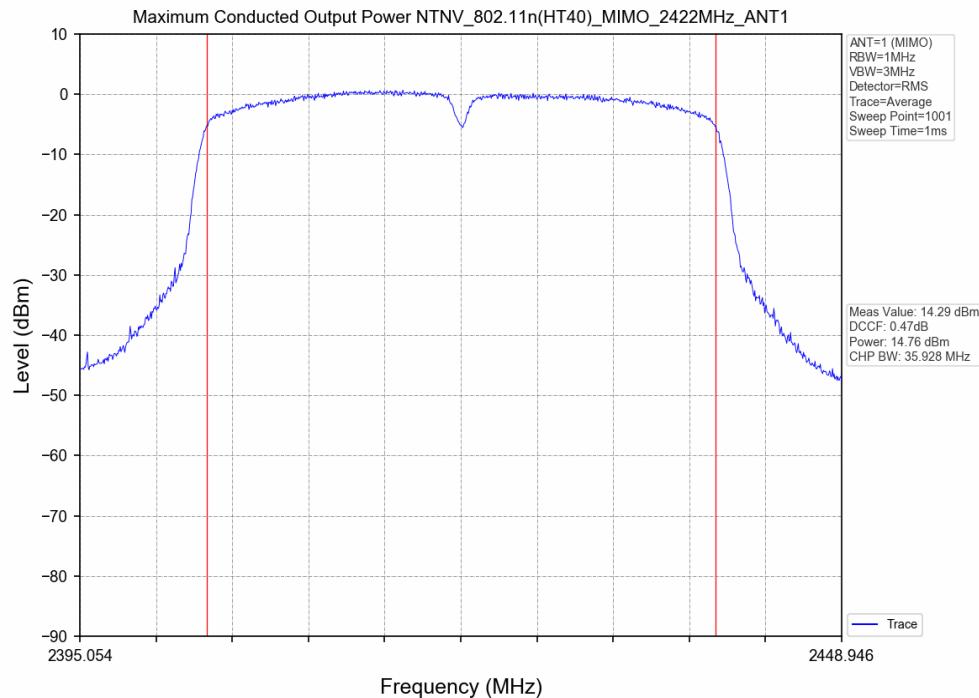
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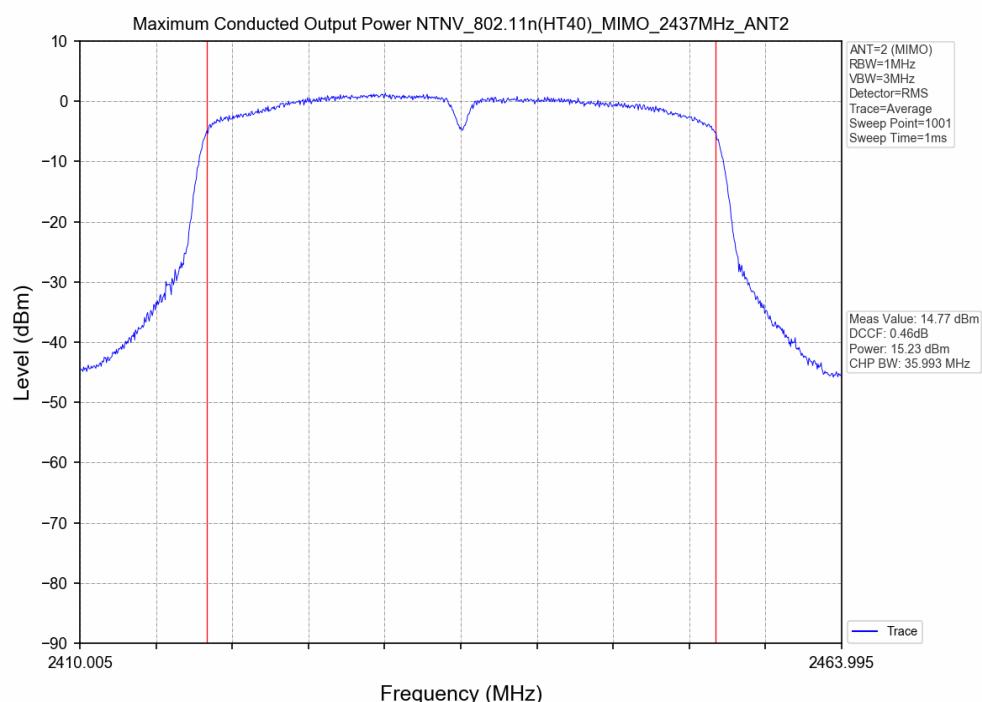


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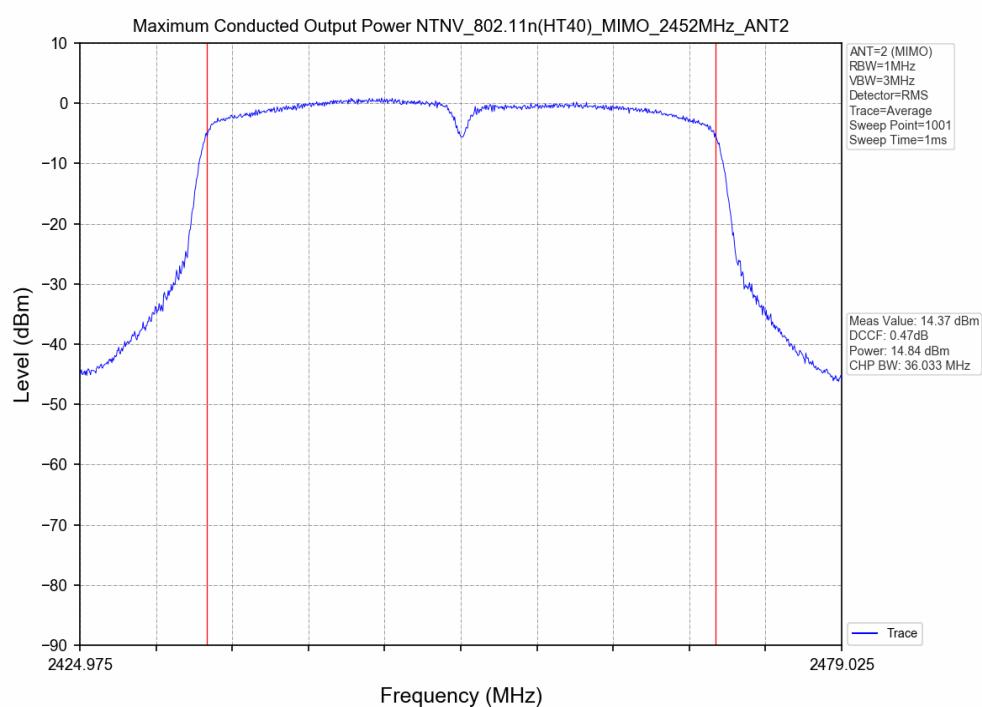
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)			Limits (dBm/3kHz)	Verdict
			Ant 1	Ant 2	Total		
802.11b	2412	SISO	-4.92	-6.47	/	≤8	PASS
	2437	SISO	-6.45	-5.69	/	≤8	PASS
	2462	SISO	-6.53	-7.59	/	≤8	PASS
802.11g	2412	SISO	-9.21	-12.17	/	≤8	PASS
	2437	SISO	-9.36	-10.46	/	≤8	PASS
	2462	SISO	-10.36	-10.68	/	≤8	PASS
802.11n(HT20)	2412	MIMO	-9.17	-9.94	-7.12	See note	PASS
	2437	MIMO	-9.06	-9.90	-7.33	See note	PASS
	2462	MIMO	-9.55	-10.02	-7.38	See note	PASS
802.11n(HT40)	2422	MIMO	-12.15	-12.09	-10.26	See note	PASS
	2437	MIMO	-13.09	-12.43	-10.47	See note	PASS
	2452	MIMO	-13.75	-12.40	-10.35	See note	PASS

*Remark

For Sinclair antenna:

Since the number of transmit antennas is less than 4, Array gain=0dB.

So, the limit of 802.11b/g/n is 8dBm/3KHz.

For SANAV antenna:

Directional gain = $G_{ANT}+10\log(N_{ANT}/N_{SS})=4.55+10\log(2/1)=7.56\text{dBi}$.

So, the limit of 802.11b/g/n is 6.44dBm/3KHz.

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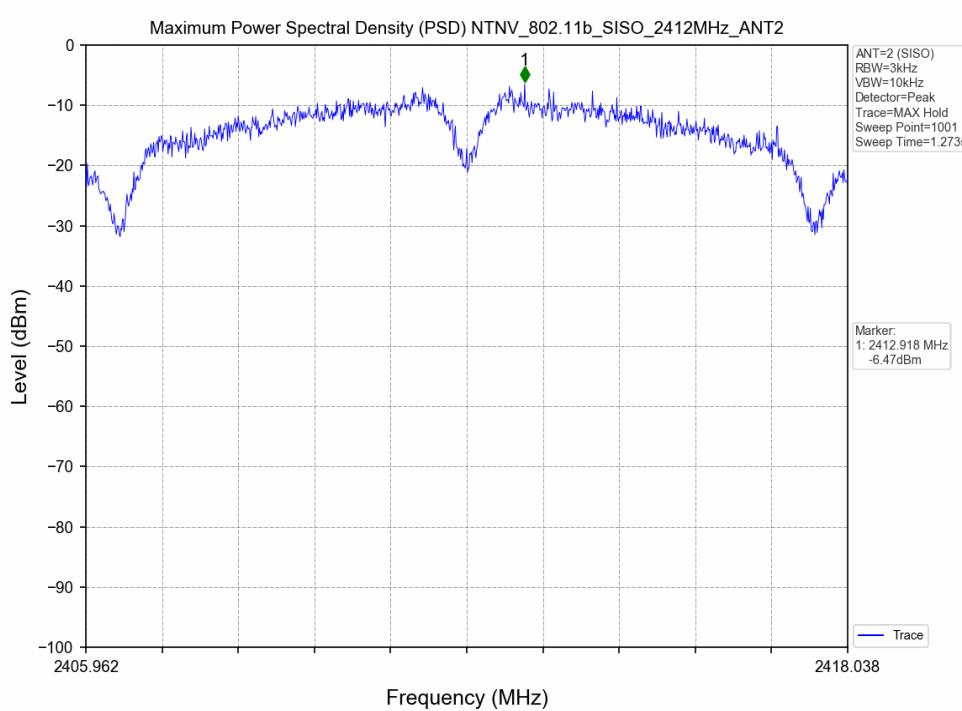
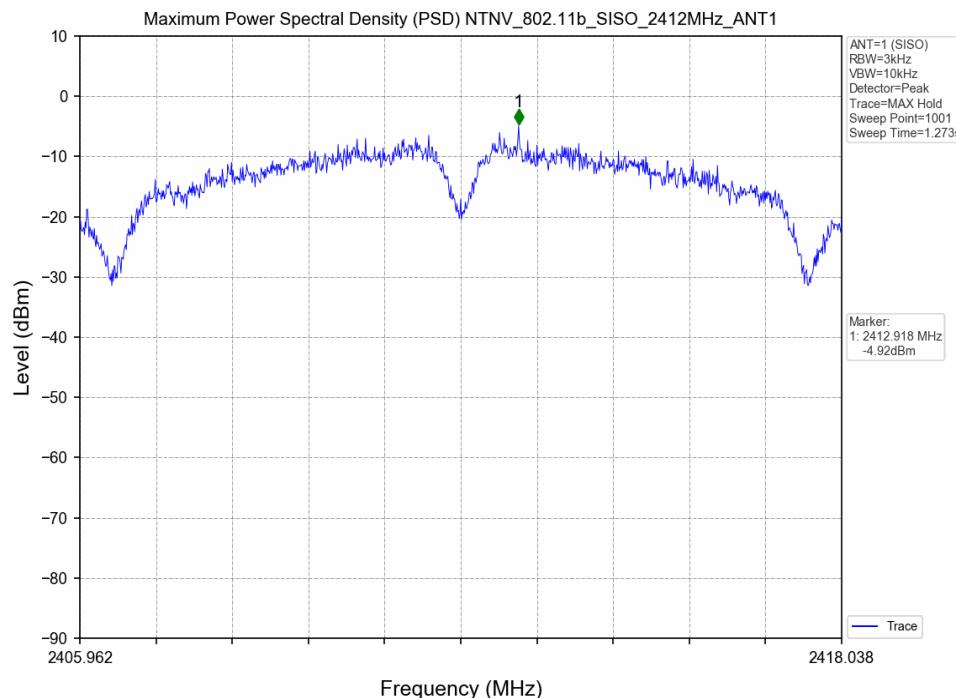
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4.2 Test Graph



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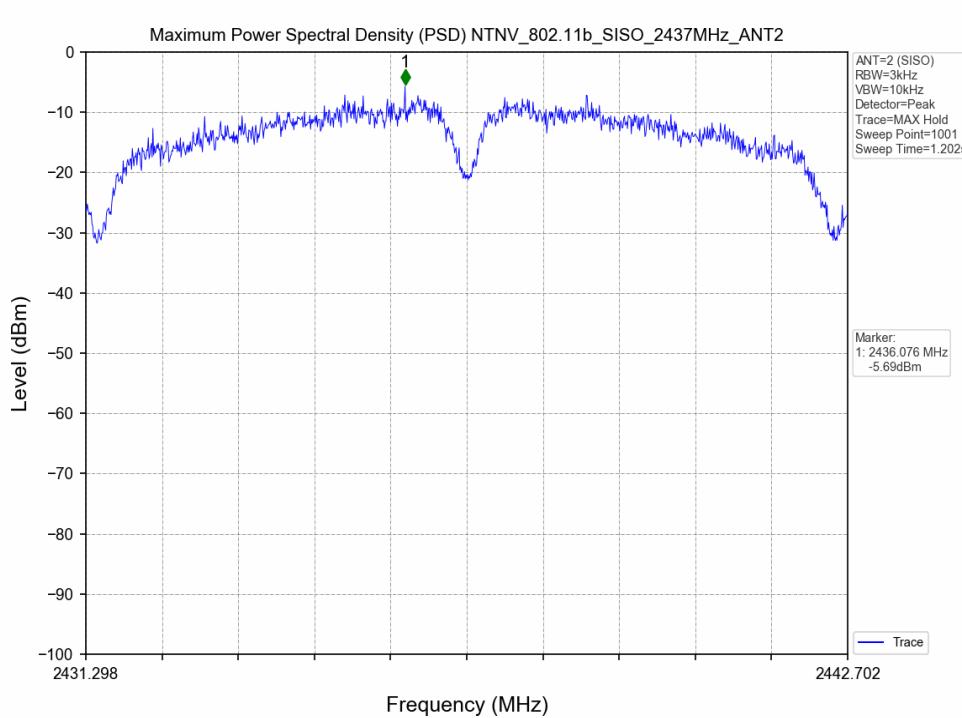
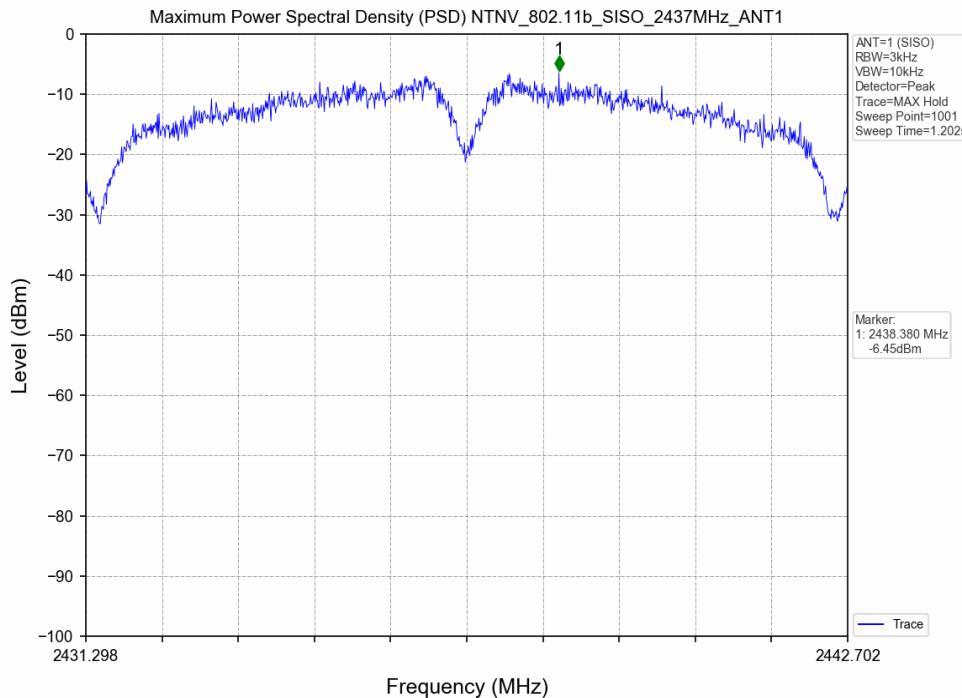
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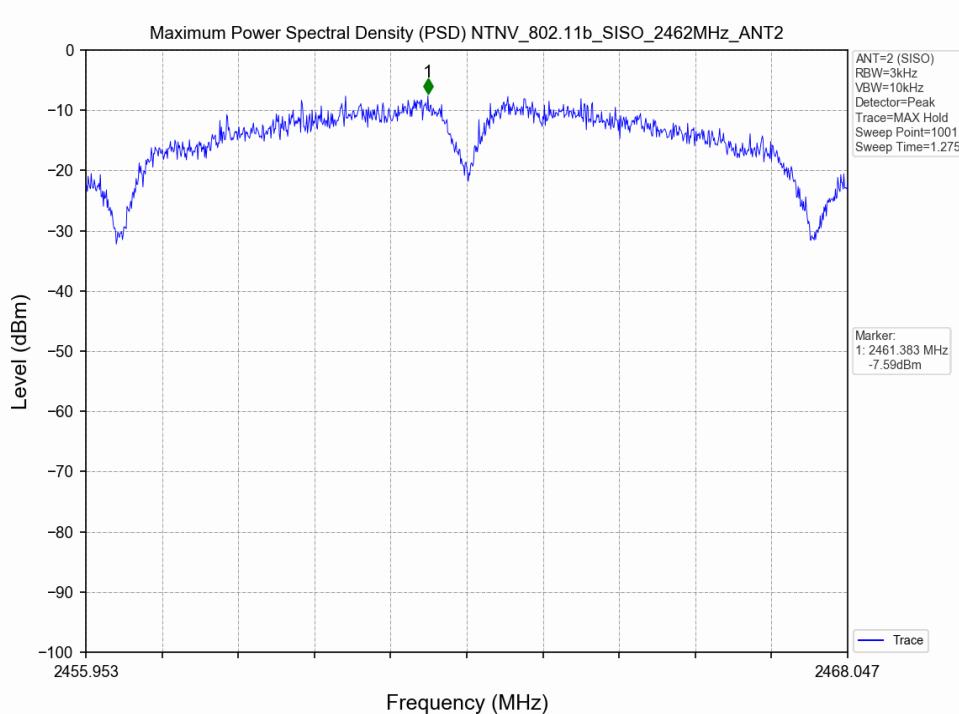
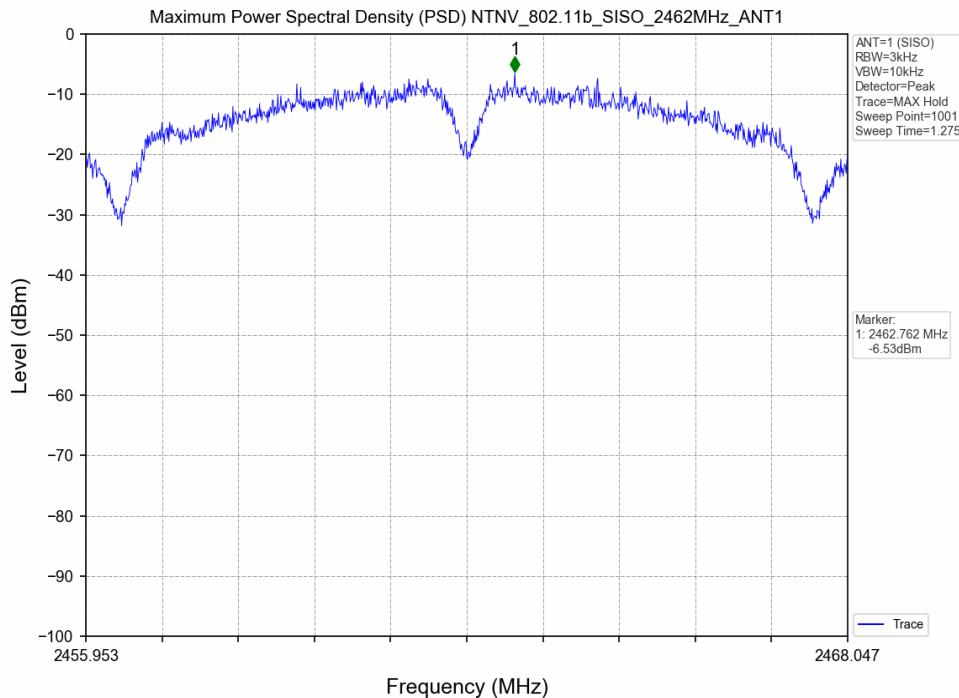
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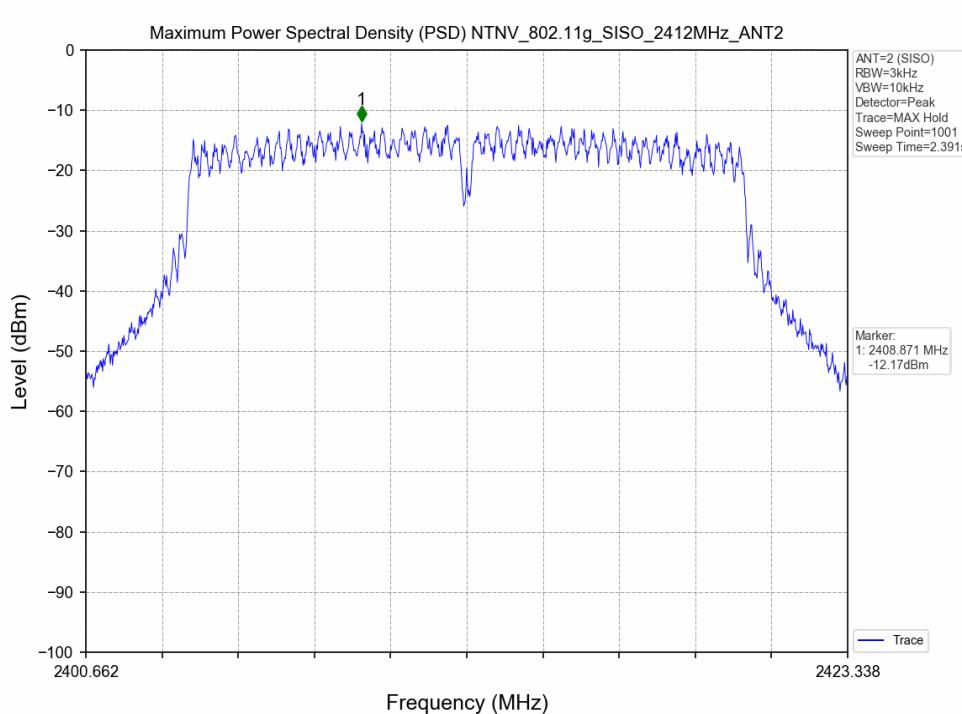
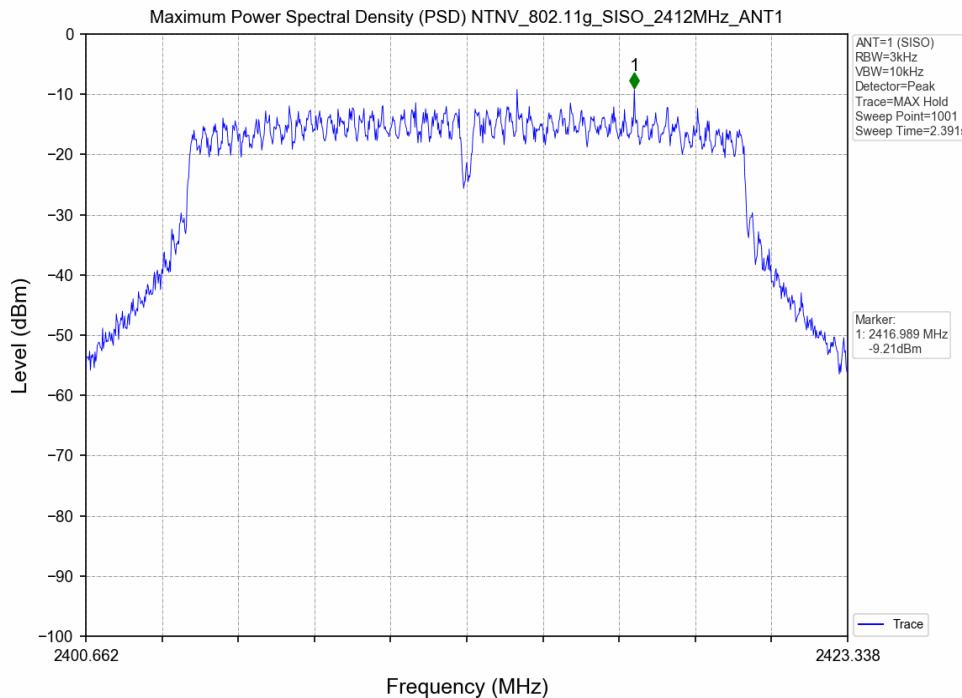
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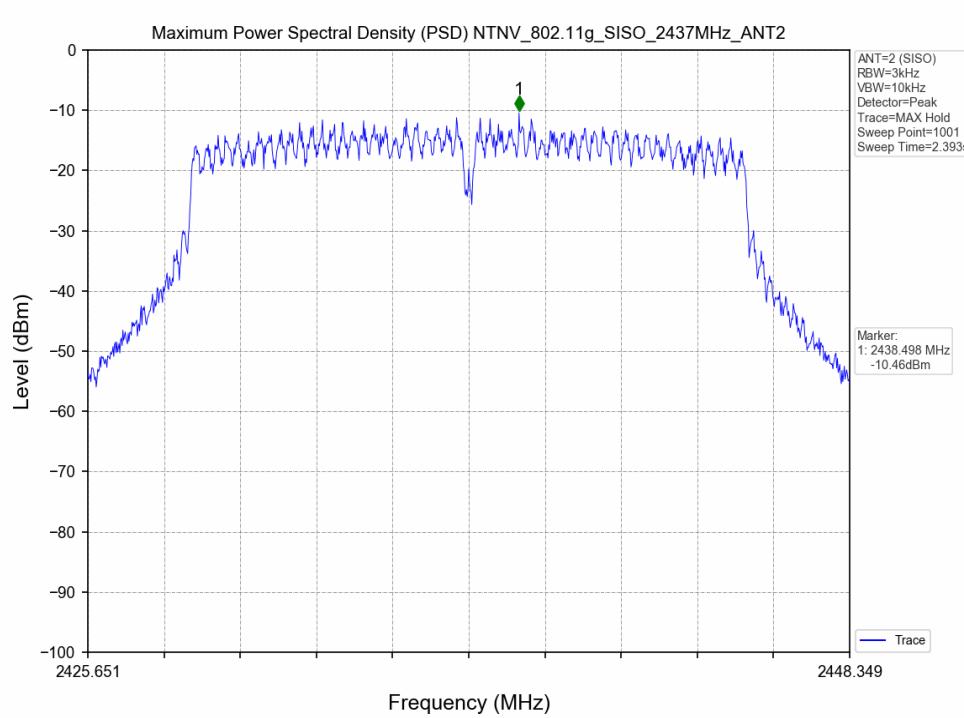
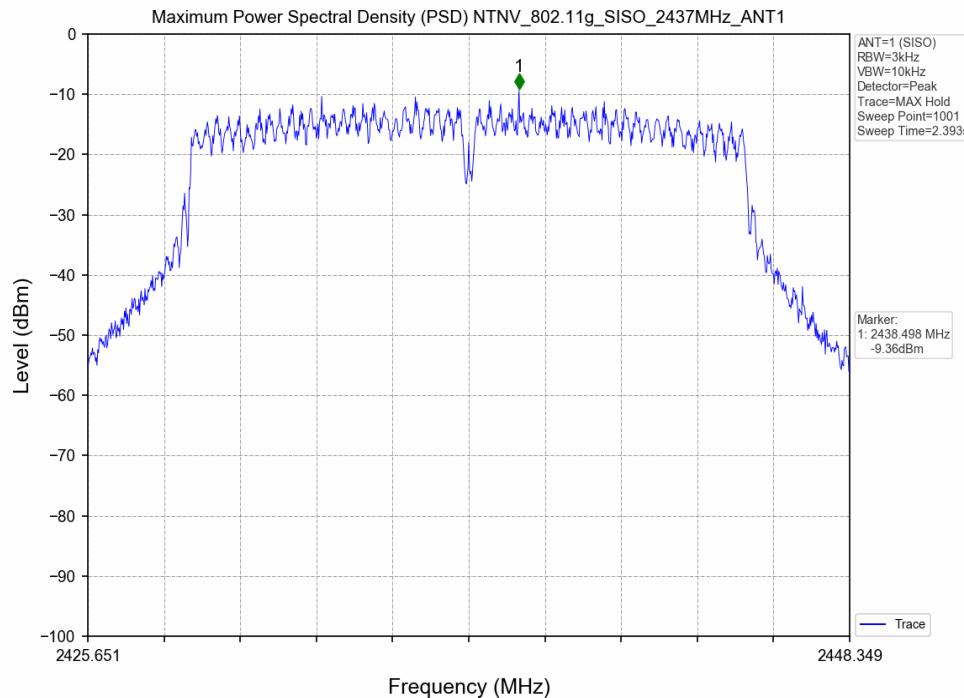
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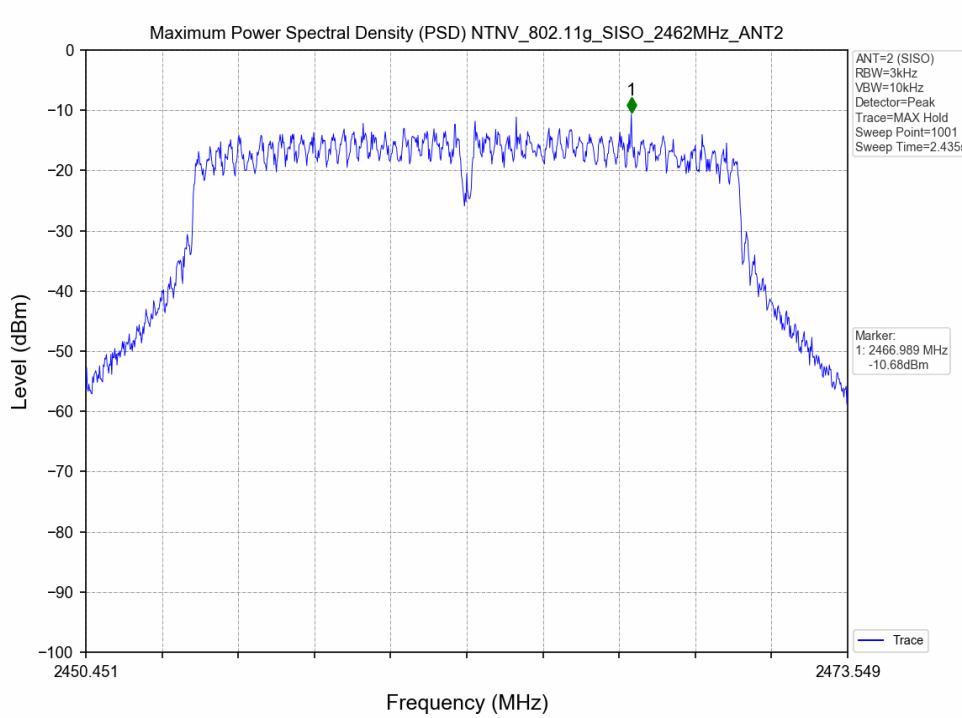
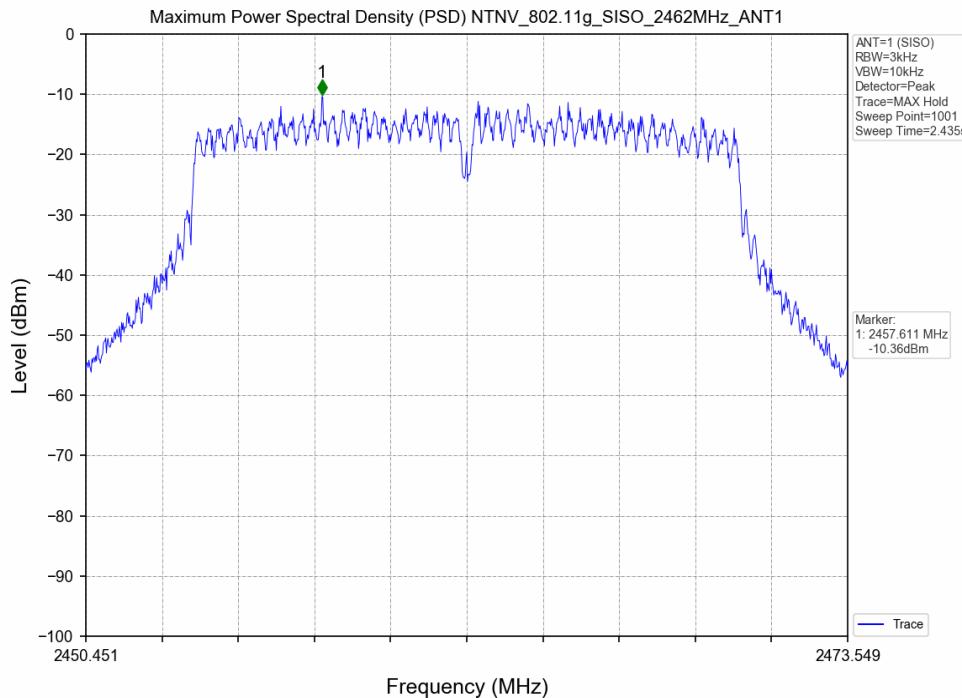
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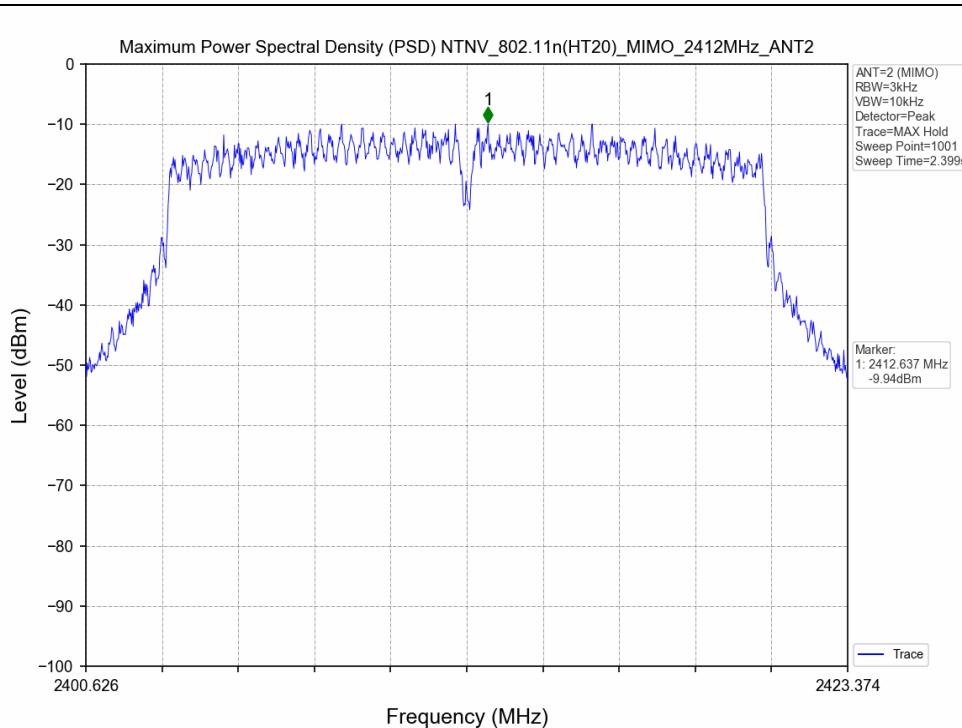
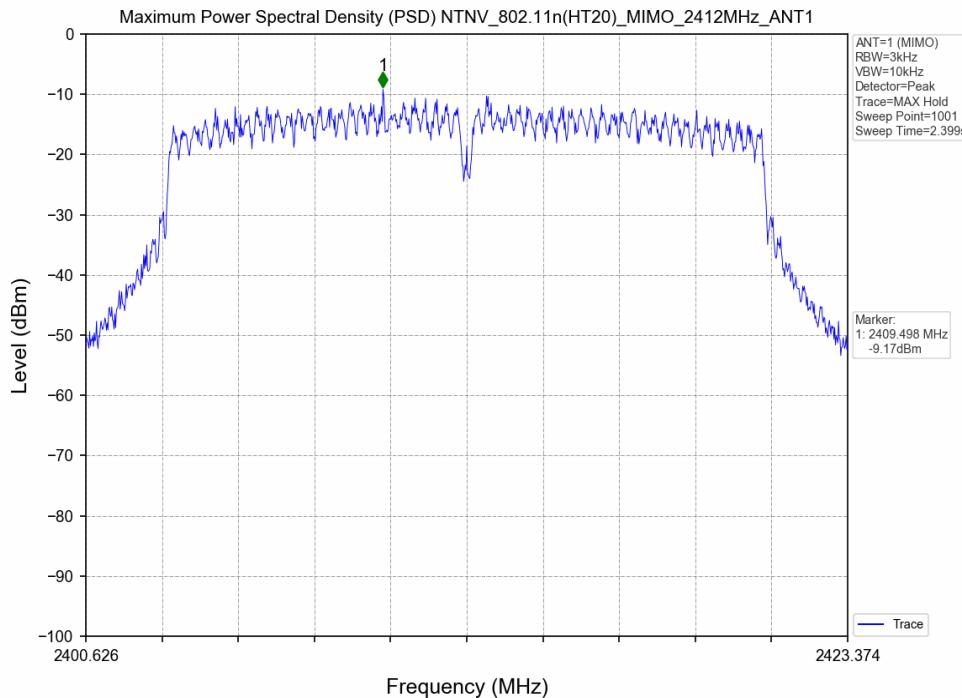
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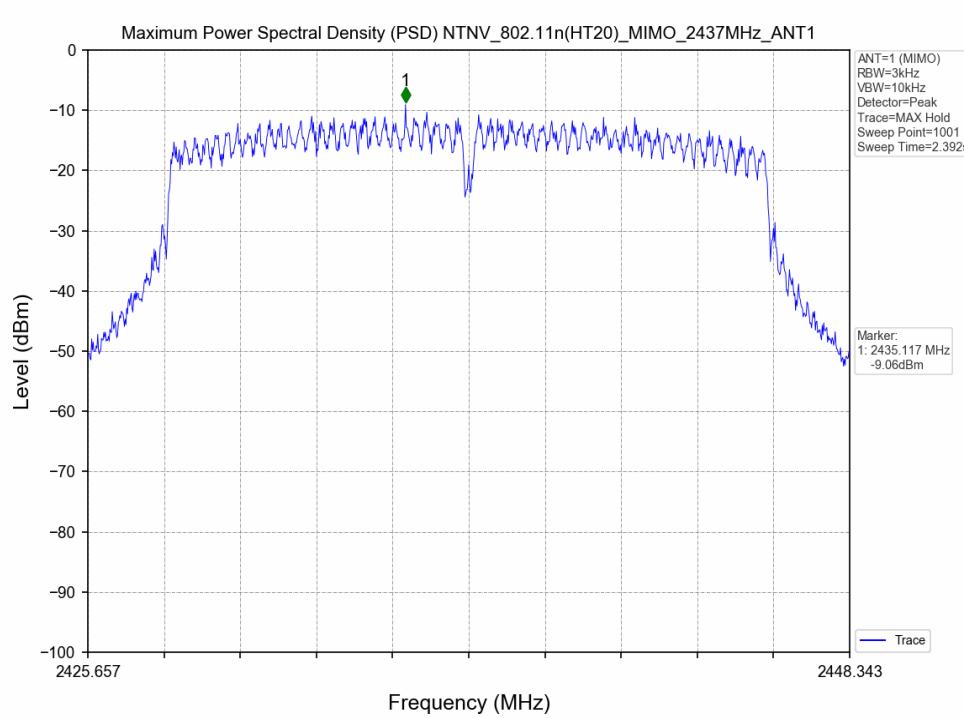
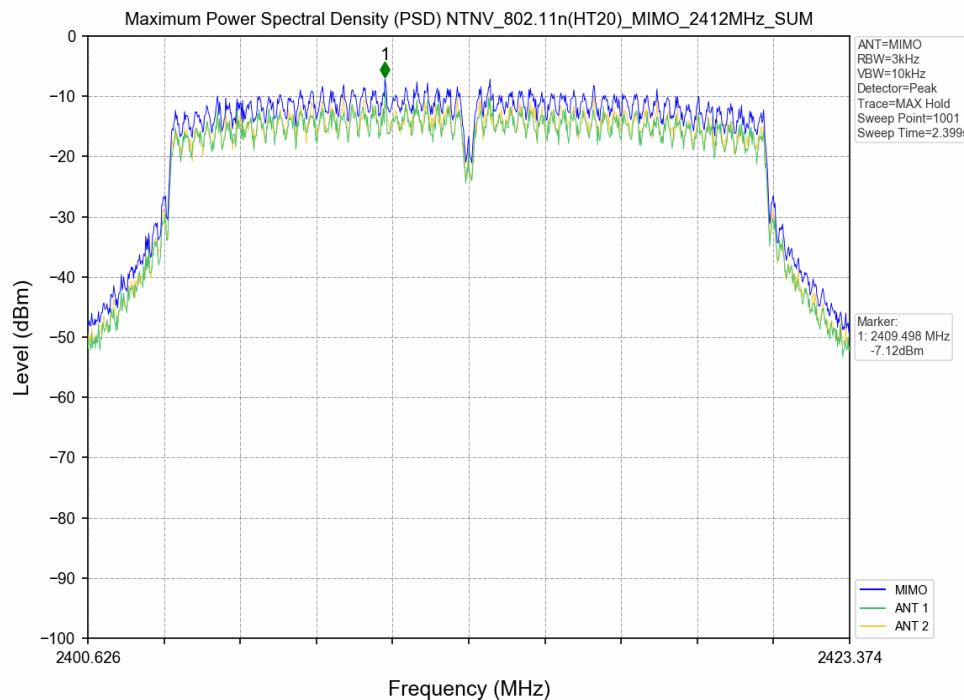
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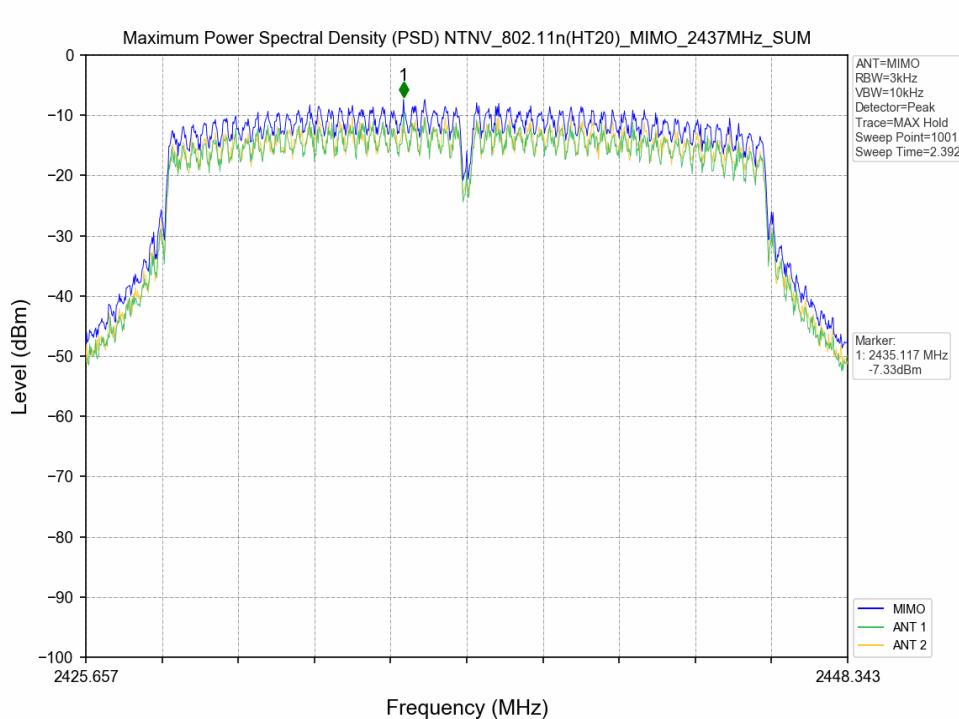
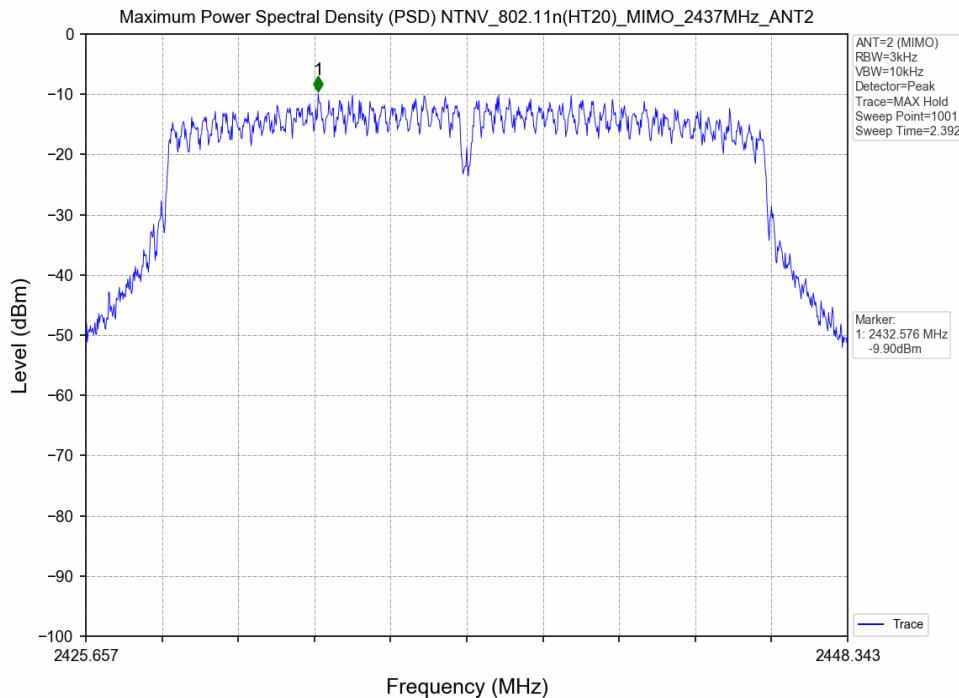
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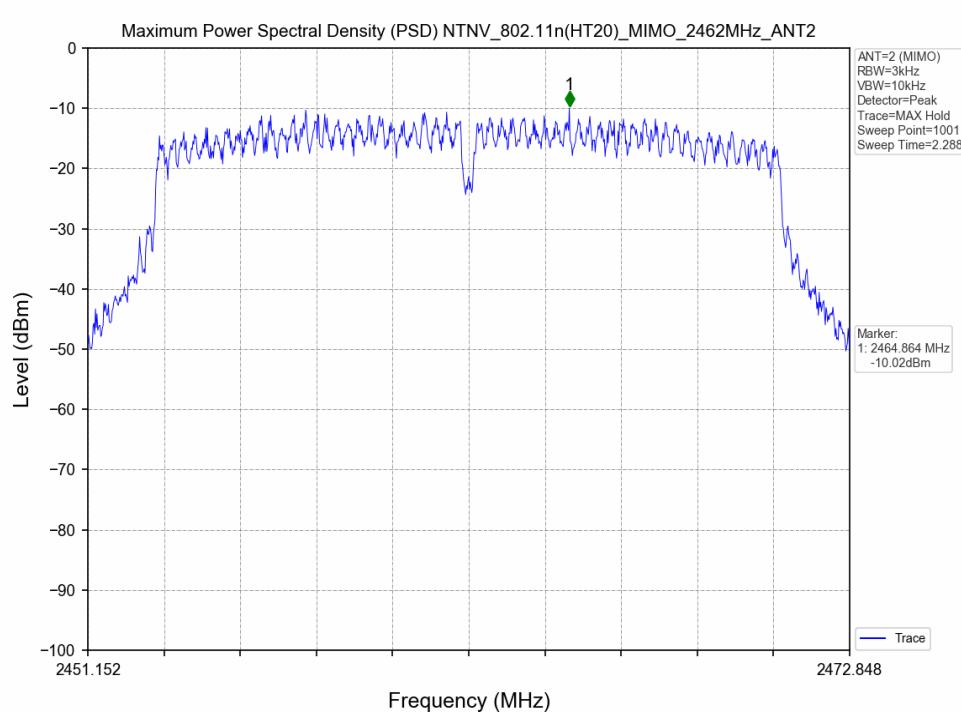
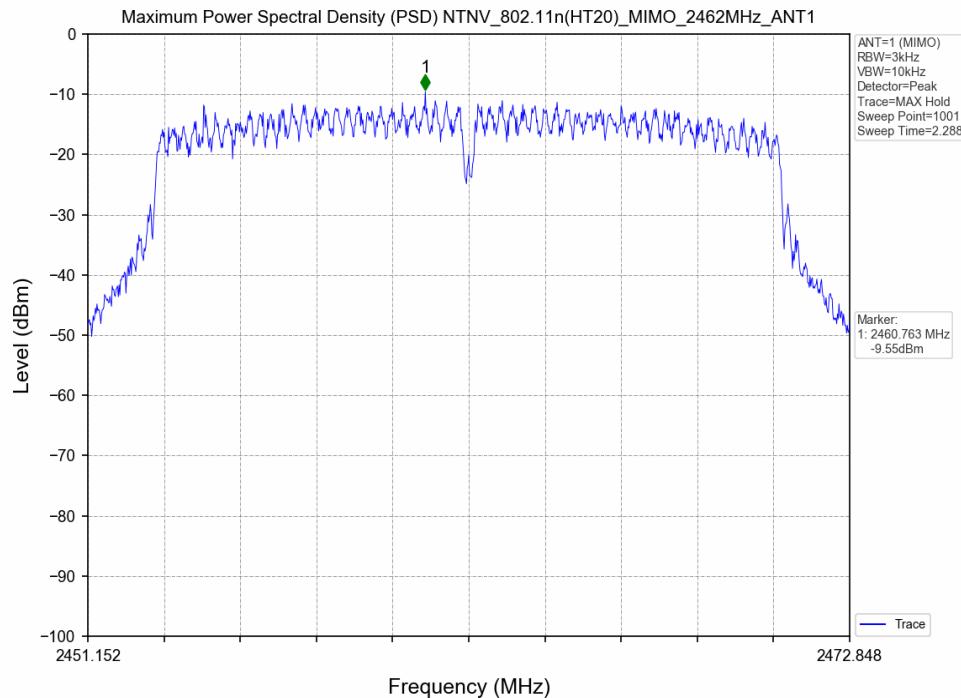
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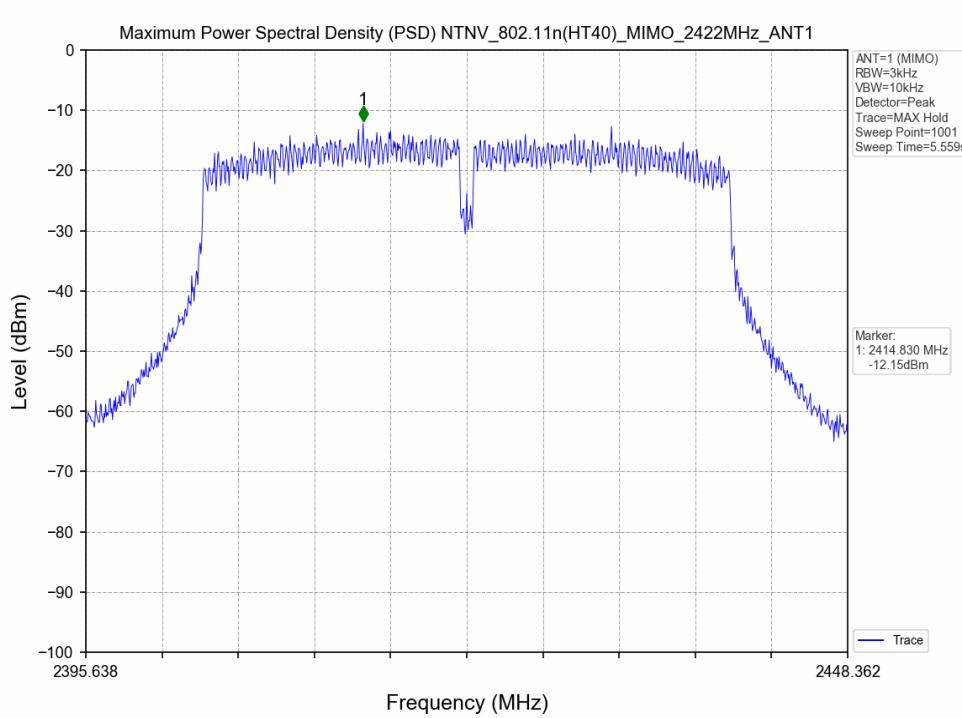
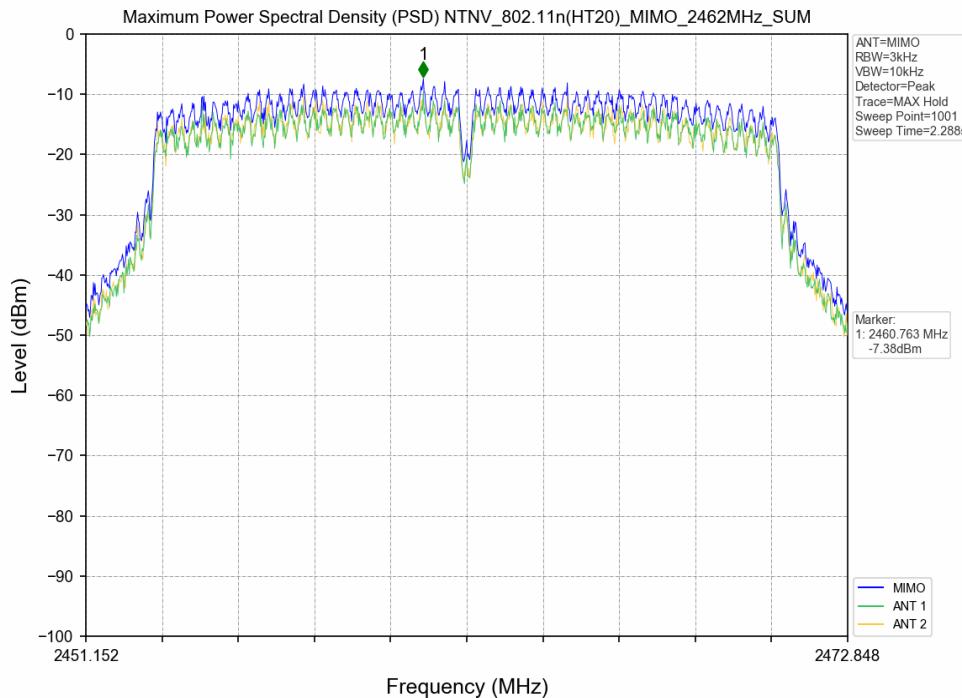
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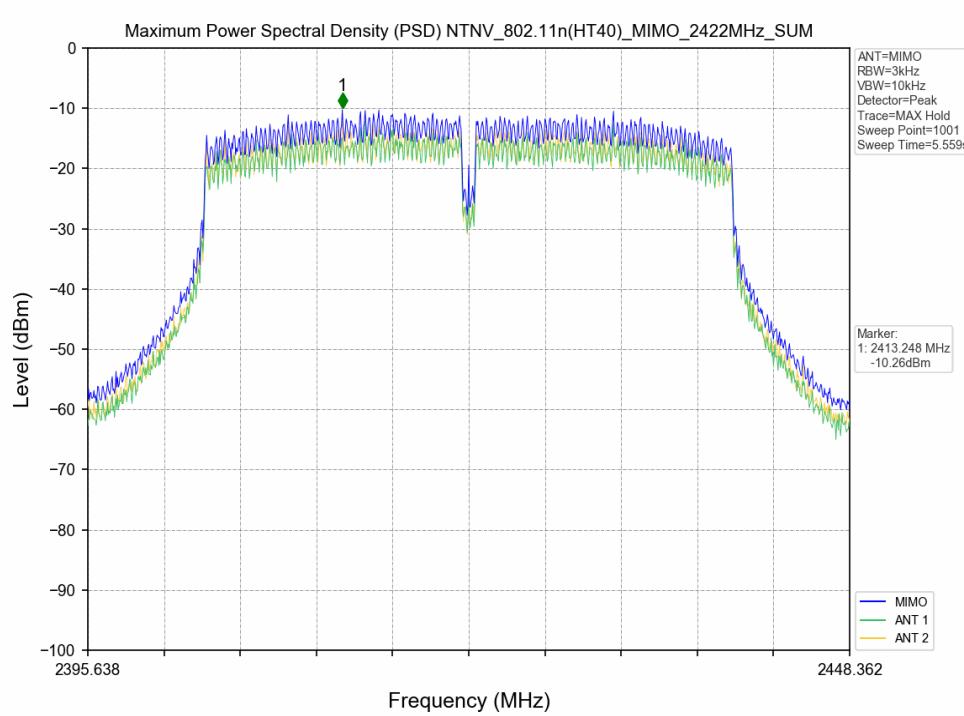
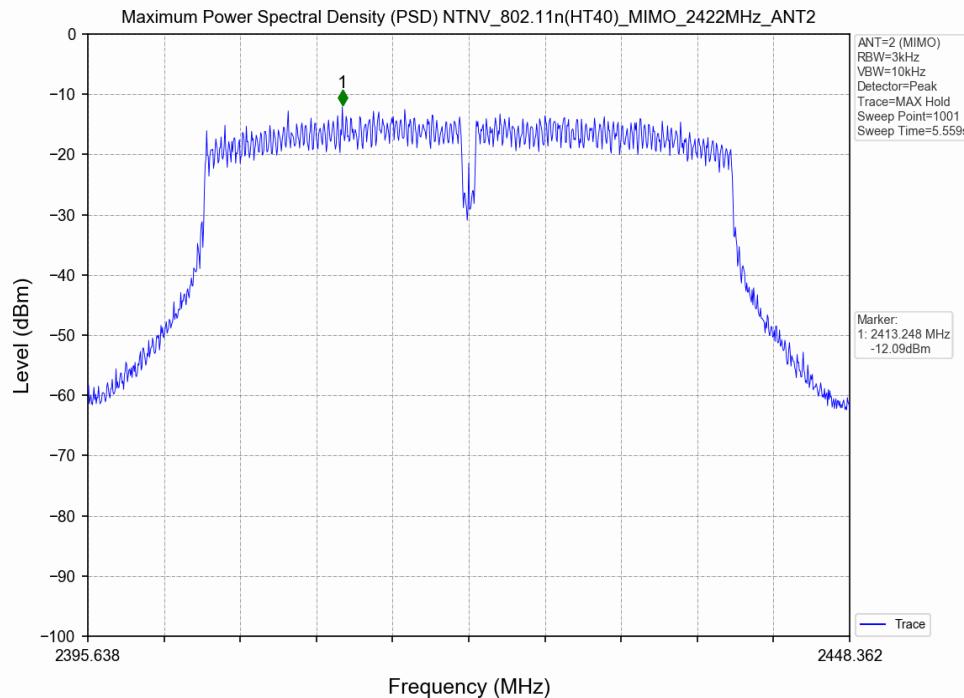
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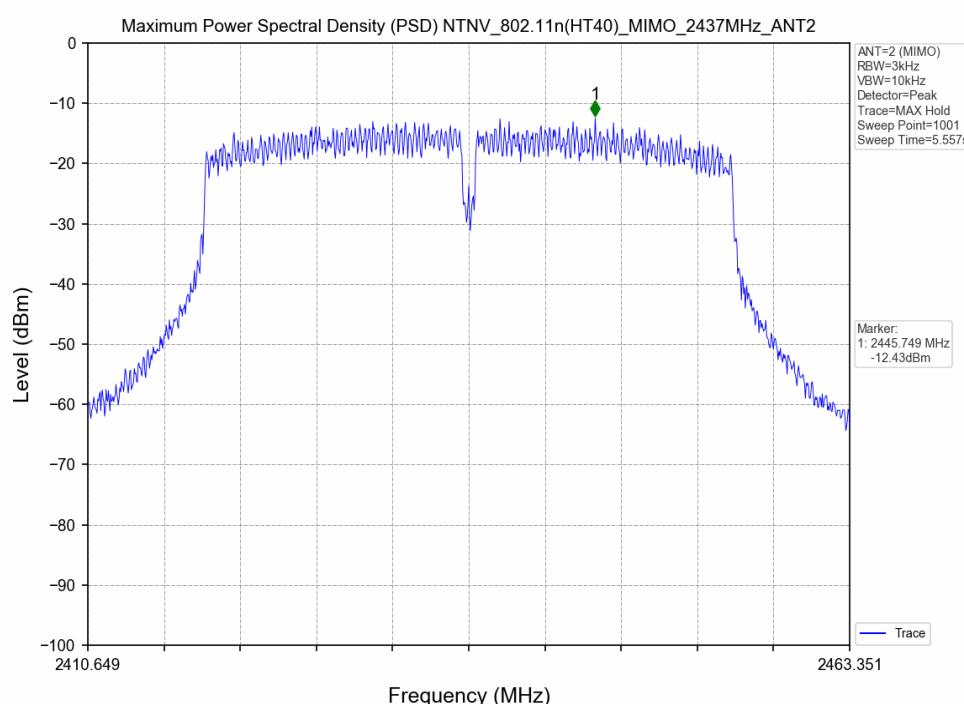
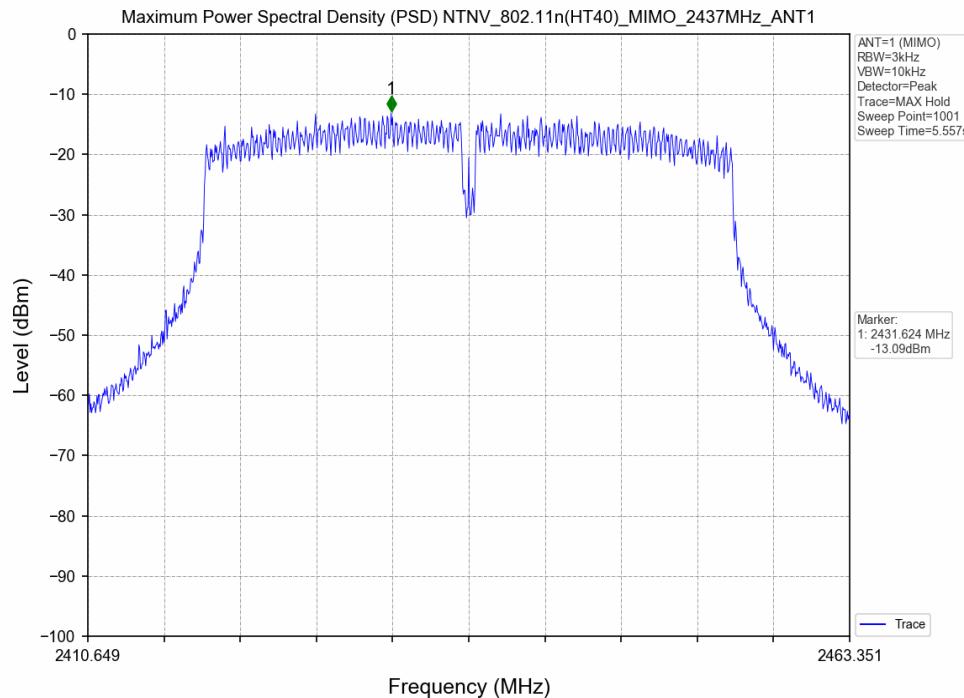
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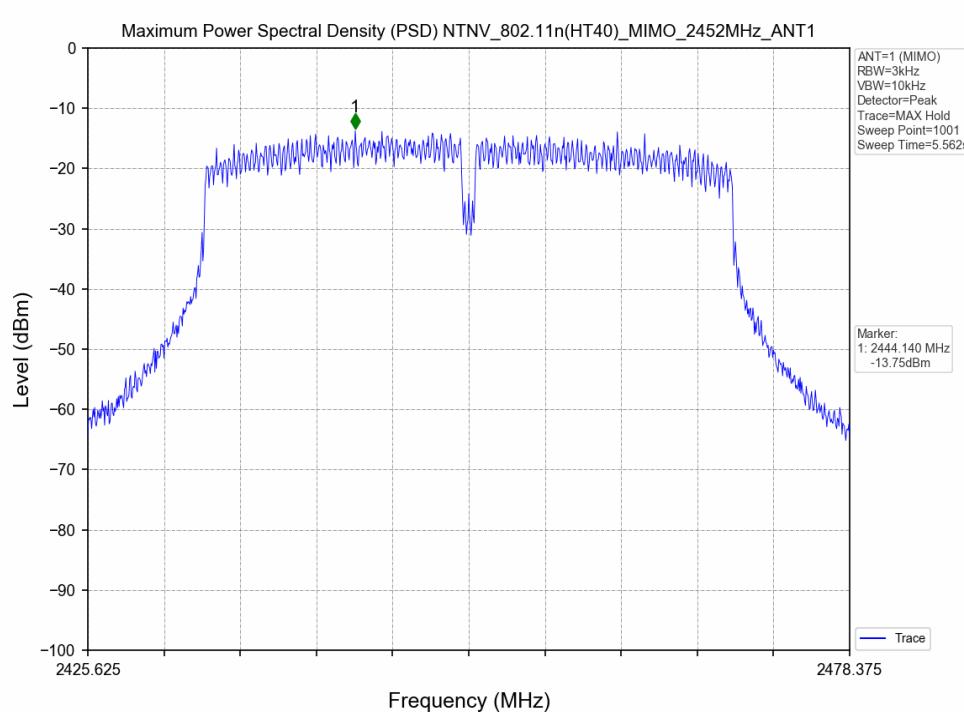
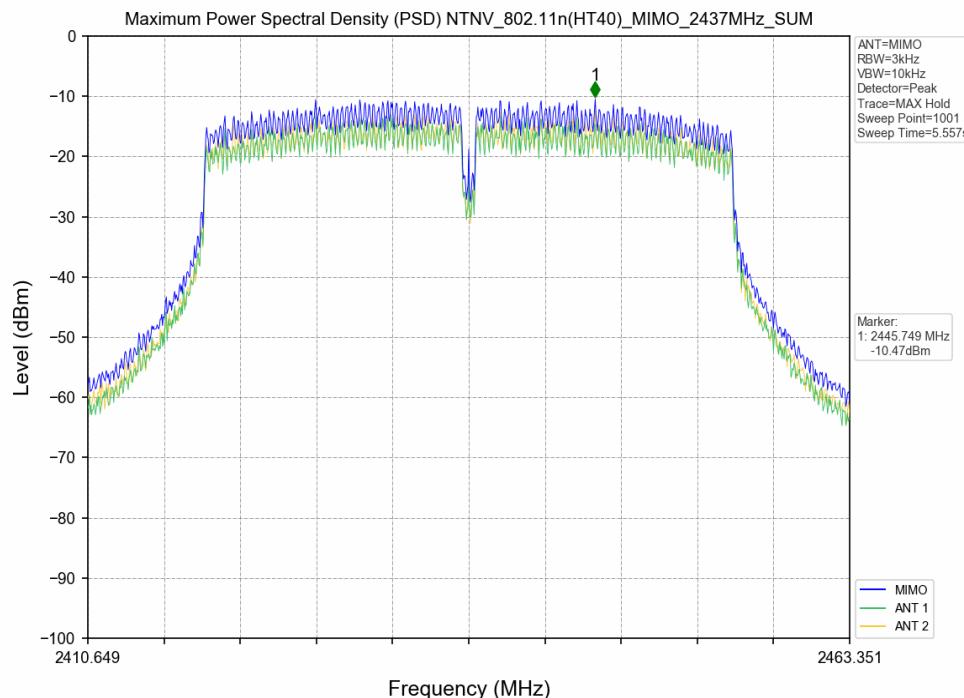
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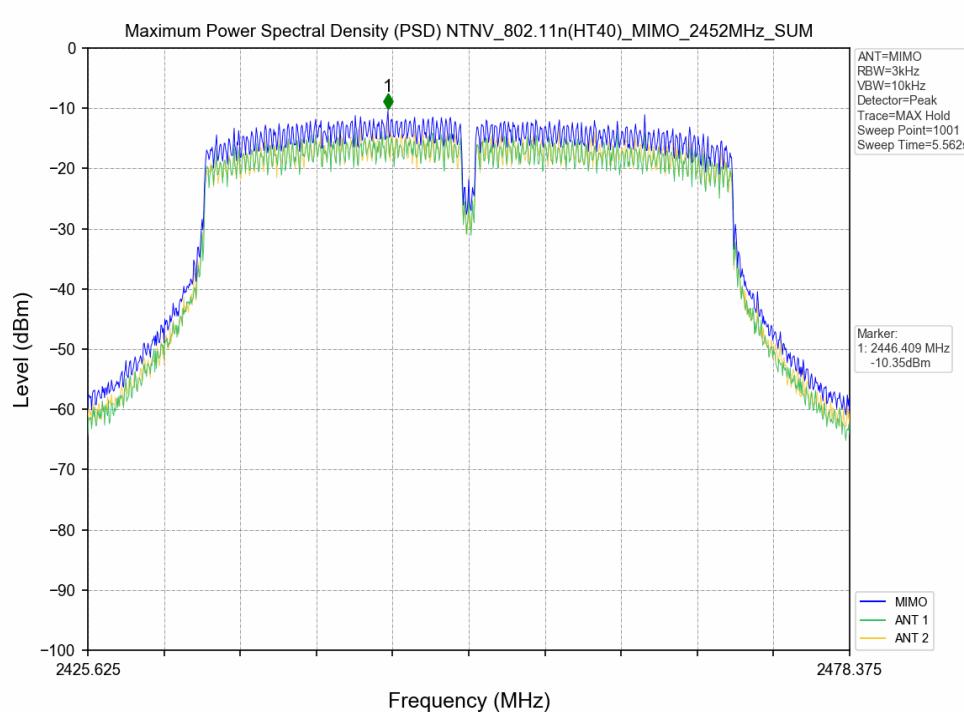
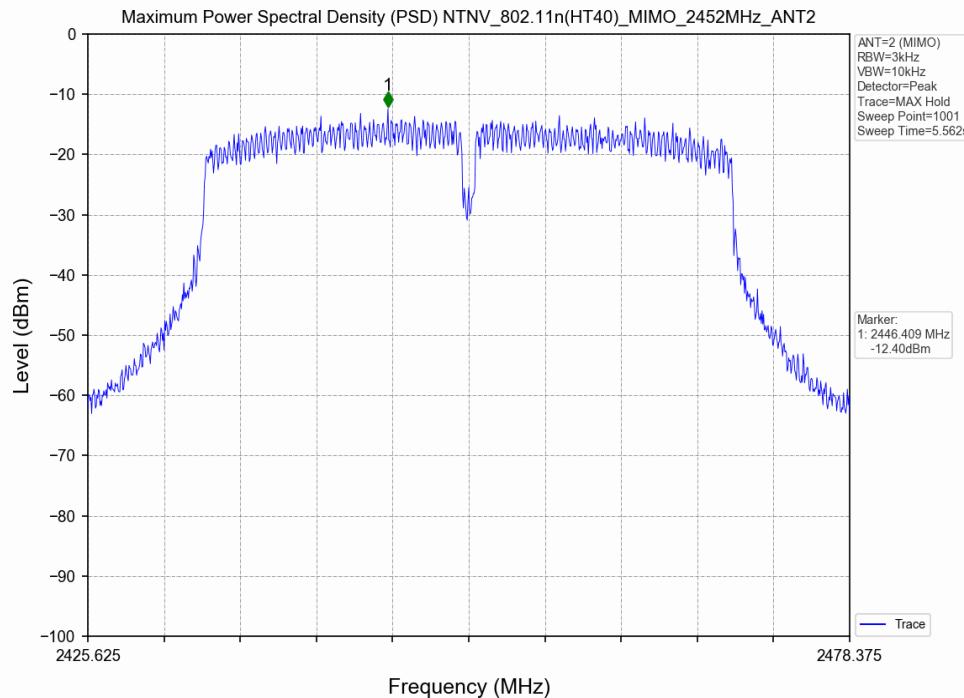
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5. Unwanted Emissions in Non-restricted Frequency Bands

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	-21.95	PASS
			2	Refer to test graph	-21.95	PASS
	2437	SISO	1	Refer to test graph	-21.95	PASS
			2	Refer to test graph	-21.95	PASS
	2462	SISO	1	Refer to test graph	-21.95	PASS
			2	Refer to test graph	-21.95	PASS
802.11g	2412	SISO	1	Refer to test graph	-26.26	PASS
			2	Refer to test graph	-26.26	PASS
	2437	SISO	1	Refer to test graph	-26.26	PASS
			2	Refer to test graph	-26.26	PASS
	2462	SISO	1	Refer to test graph	-26.26	PASS
			2	Refer to test graph	-26.26	PASS
802.11n(HT20)	2412	MIMO	MIMO	Refer to test graph	-25.03	PASS
	2437	MIMO	MIMO	Refer to test graph	-25.03	PASS
	2462	MIMO	MIMO	Refer to test graph	-25.03	PASS
802.11n(HT40)	2422	MIMO	MIMO	Refer to test graph	-27.93	PASS
	2437	MIMO	MIMO	Refer to test graph	-27.93	PASS
	2452	MIMO	MIMO	Refer to test graph	-27.93	PASS

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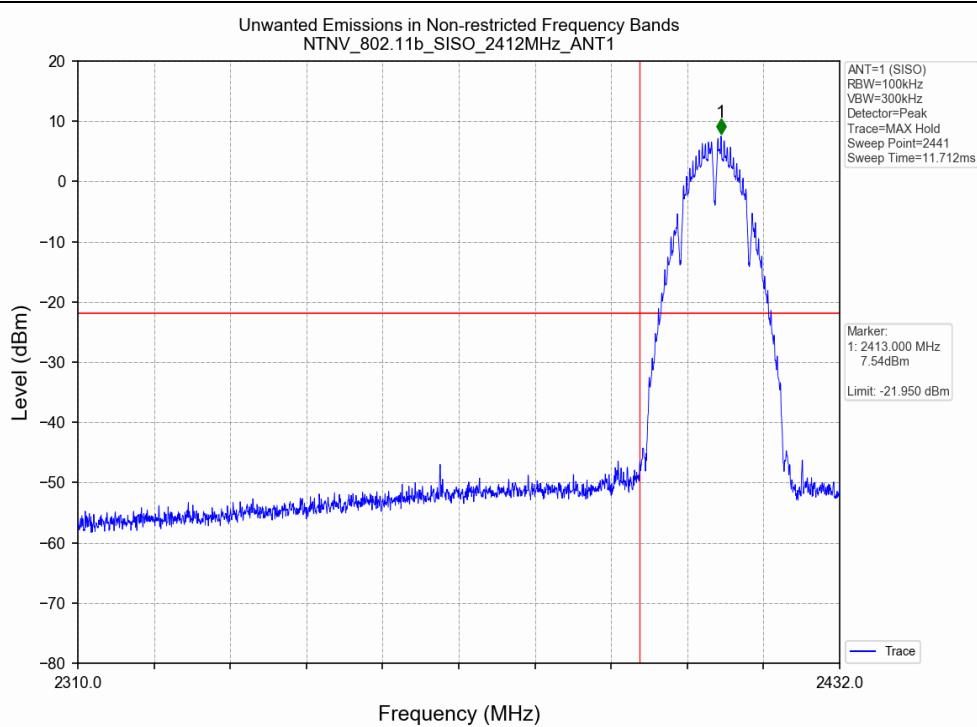
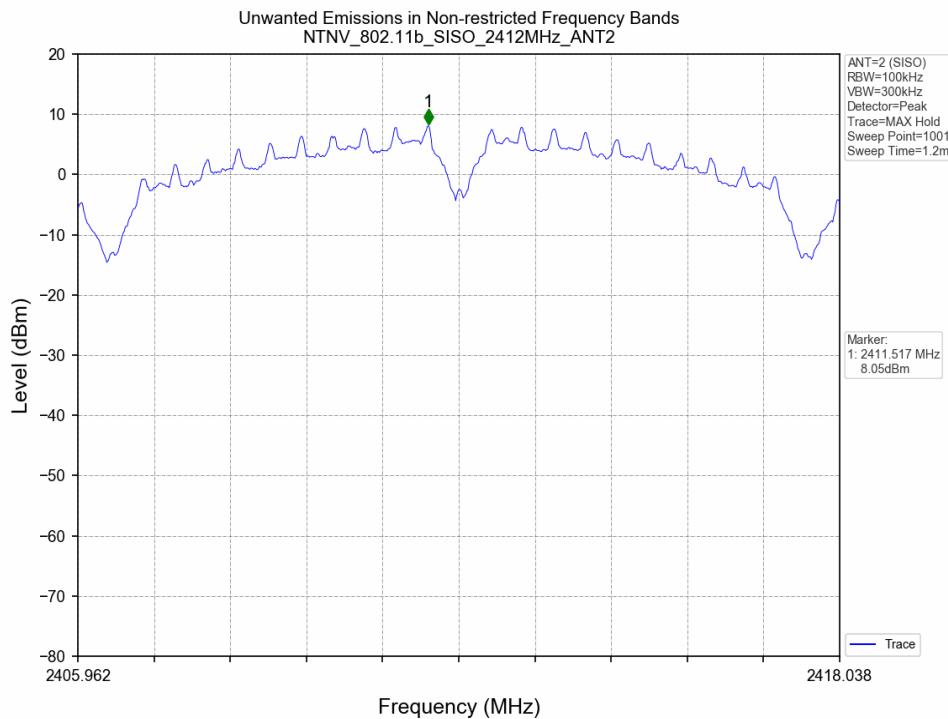
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5.2 Test Graph



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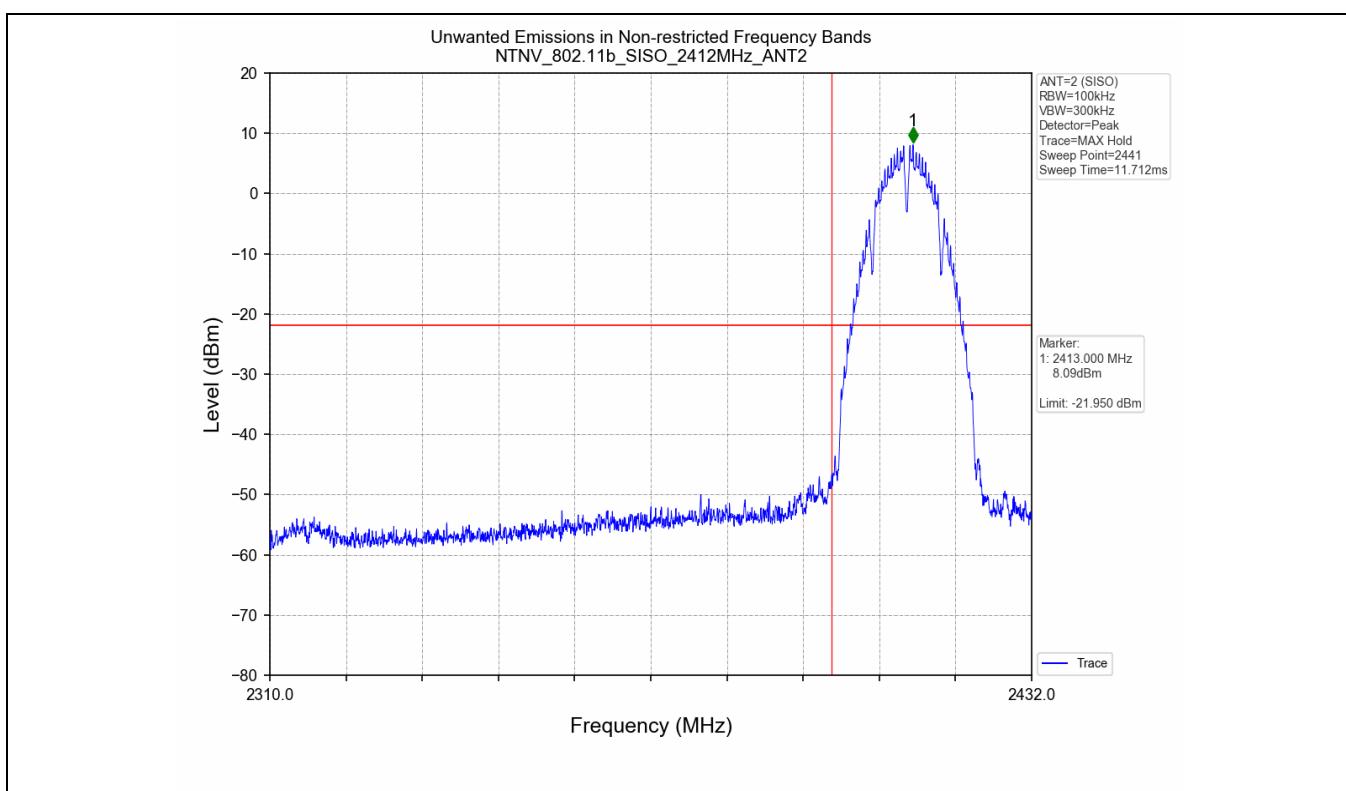
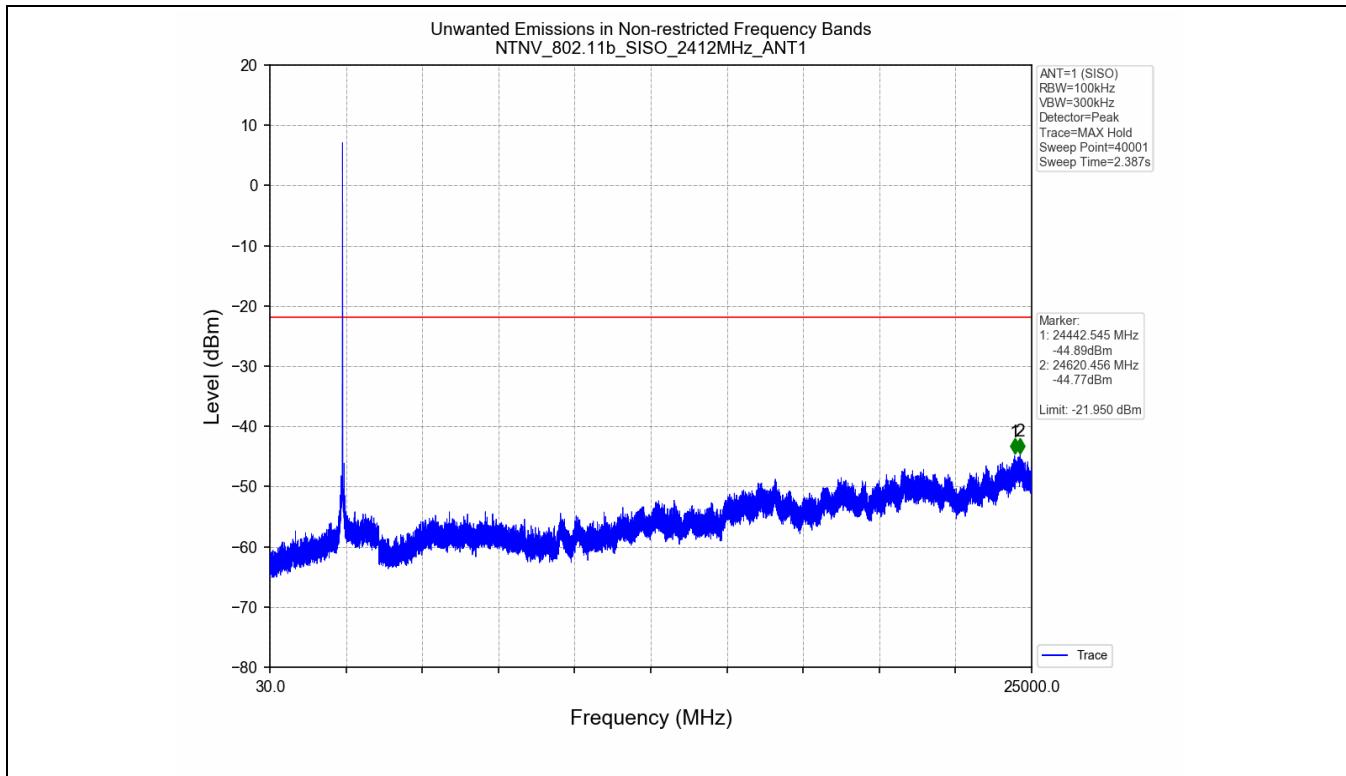
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