



Appendix D for SZCR210300003004

1. Duty Cycle

1.1 Test Result

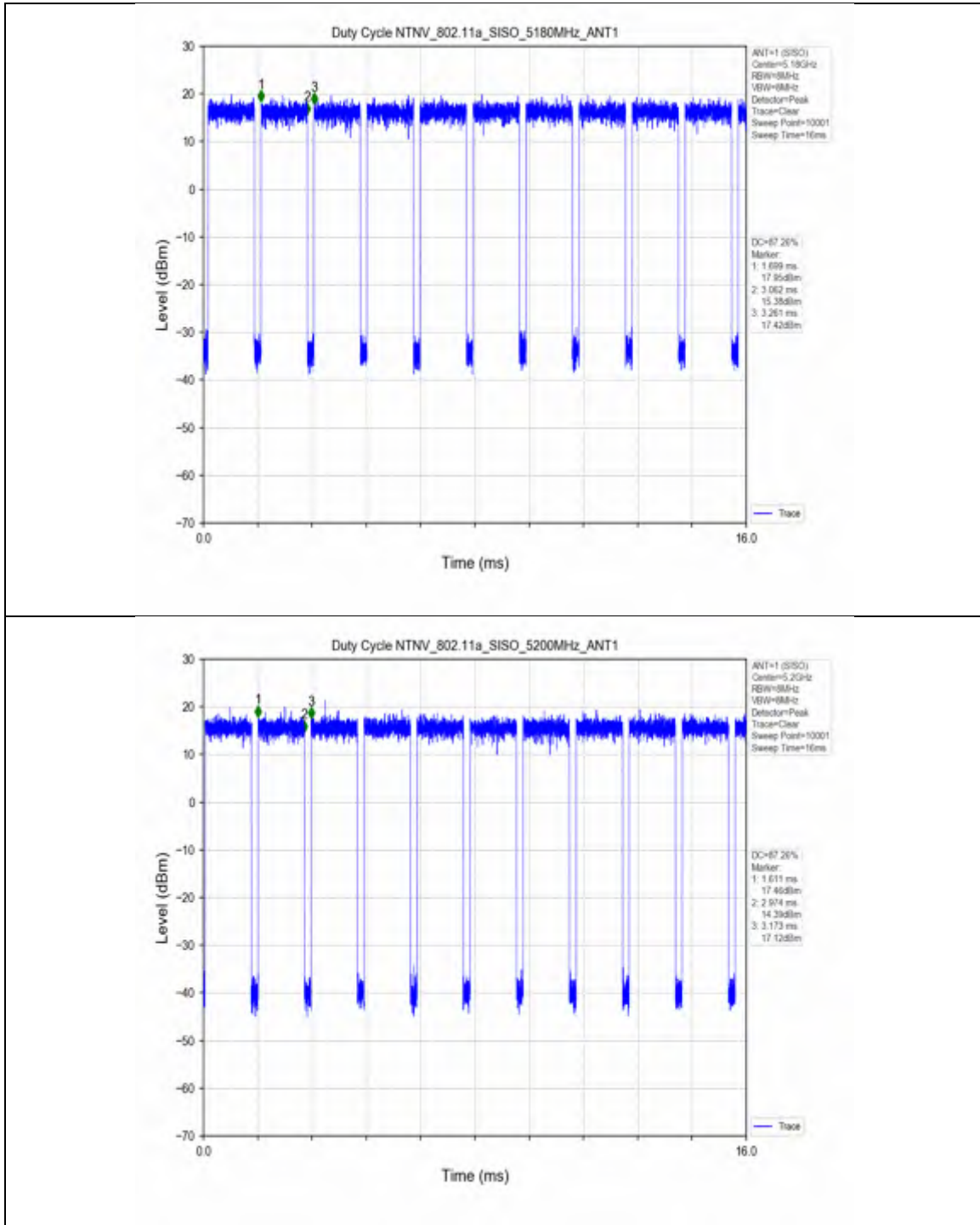
Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	1.363	1.562	87.26	0.59
	5200	SISO	1	1.363	1.562	87.26	0.59
	5240	SISO	1	1.363	1.561	87.32	0.59
	5260	SISO	1	1.364	1.562	87.32	0.59
	5300	SISO	1	1.363	1.563	87.20	0.59
	5320	SISO	1	1.363	1.563	87.20	0.59
	5500	SISO	1	1.363	1.563	87.20	0.59
	5580	SISO	1	1.364	1.562	87.32	0.59
	5600	SISO	1	1.363	1.563	87.20	0.59
	5700	SISO	1	1.363	1.561	87.32	0.59
	5745	SISO	1	1.363	1.562	87.26	0.59
	5785	SISO	1	1.364	1.564	87.21	0.59
5825	SISO	1	1.363	1.563	87.20	0.59	
802.11n(HT20)	5180	SISO	1	1.248	1.443	86.49	0.63
	5200	SISO	1	1.248	1.442	86.55	0.63
	5240	SISO	1	1.248	1.443	86.49	0.63
	5260	SISO	1	1.248	1.443	86.49	0.63
	5300	SISO	1	1.248	1.443	86.49	0.63
	5320	SISO	1	1.248	1.443	86.49	0.63
	5500	SISO	1	1.246	1.441	86.47	0.63
	5580	SISO	1	1.248	1.443	86.49	0.63
	5600	SISO	1	1.248	1.443	86.49	0.63
	5700	SISO	1	1.248	1.443	86.49	0.63
	5745	SISO	1	1.248	1.444	86.43	0.63
	5785	SISO	1	1.248	1.442	86.55	0.63
5825	SISO	1	1.249	1.444	86.50	0.63	
802.11n(HT40)	5190	SISO	1	0.635	0.835	76.05	1.19
	5230	SISO	1	0.635	0.835	76.05	1.19
	5270	SISO	1	0.635	0.835	76.05	1.19
	5310	SISO	1	0.613	0.806	76.05	1.19
	5510	SISO	1	0.636	0.836	76.08	1.19
	5550	SISO	1	0.635	0.835	76.05	1.19
	5590	SISO	1	0.635	0.835	76.05	1.19
	5670	SISO	1	0.635	0.835	76.05	1.19
	5755	SISO	1	0.636	0.836	76.08	1.19
	5795	SISO	1	0.636	0.836	76.08	1.19



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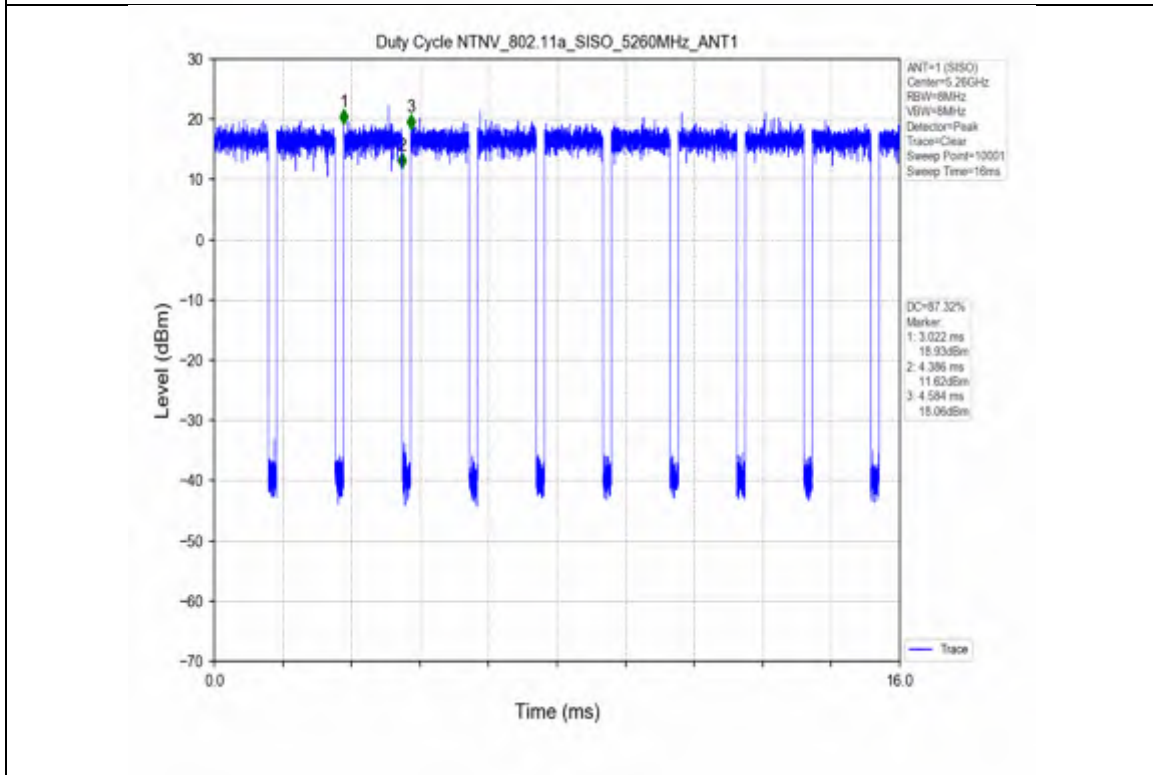
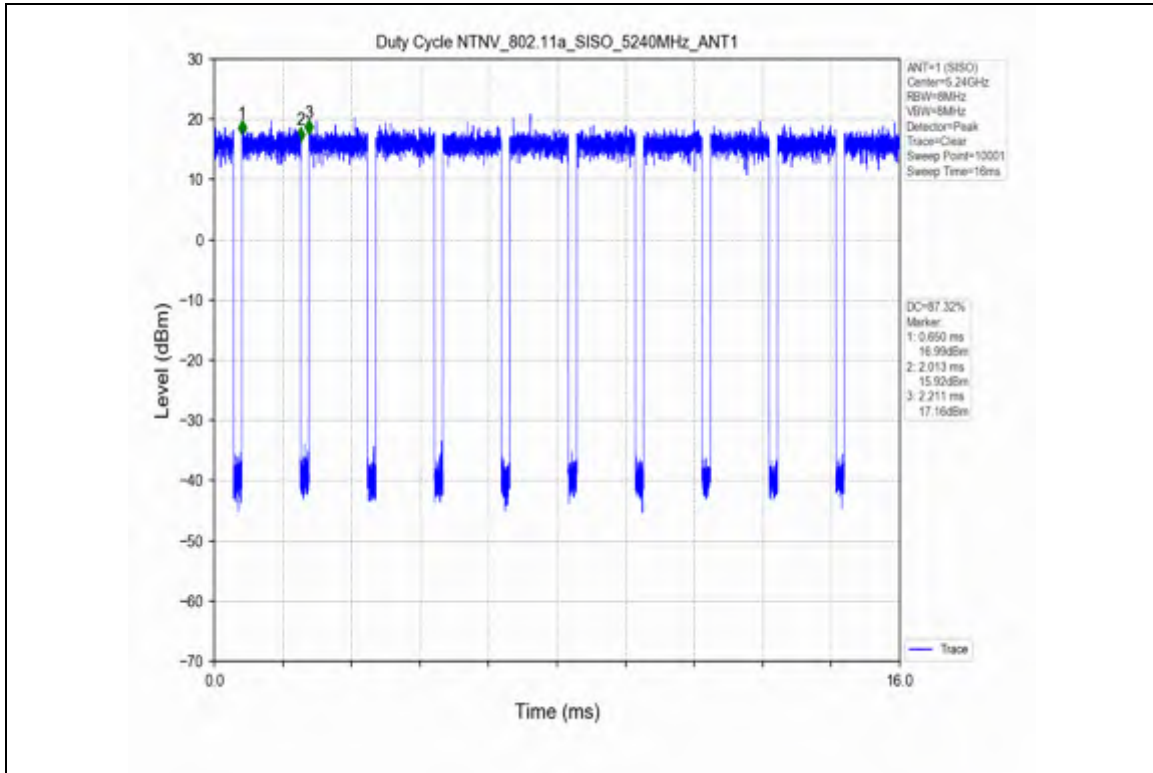
1.2 Test Graph



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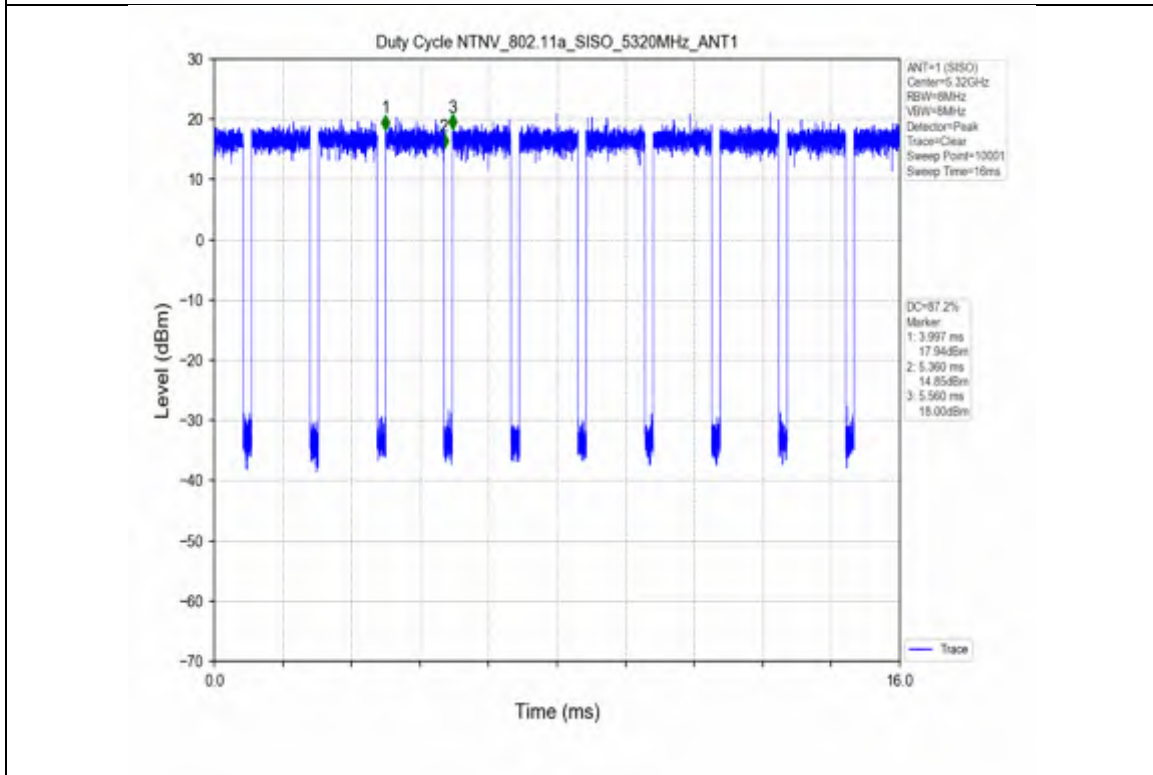
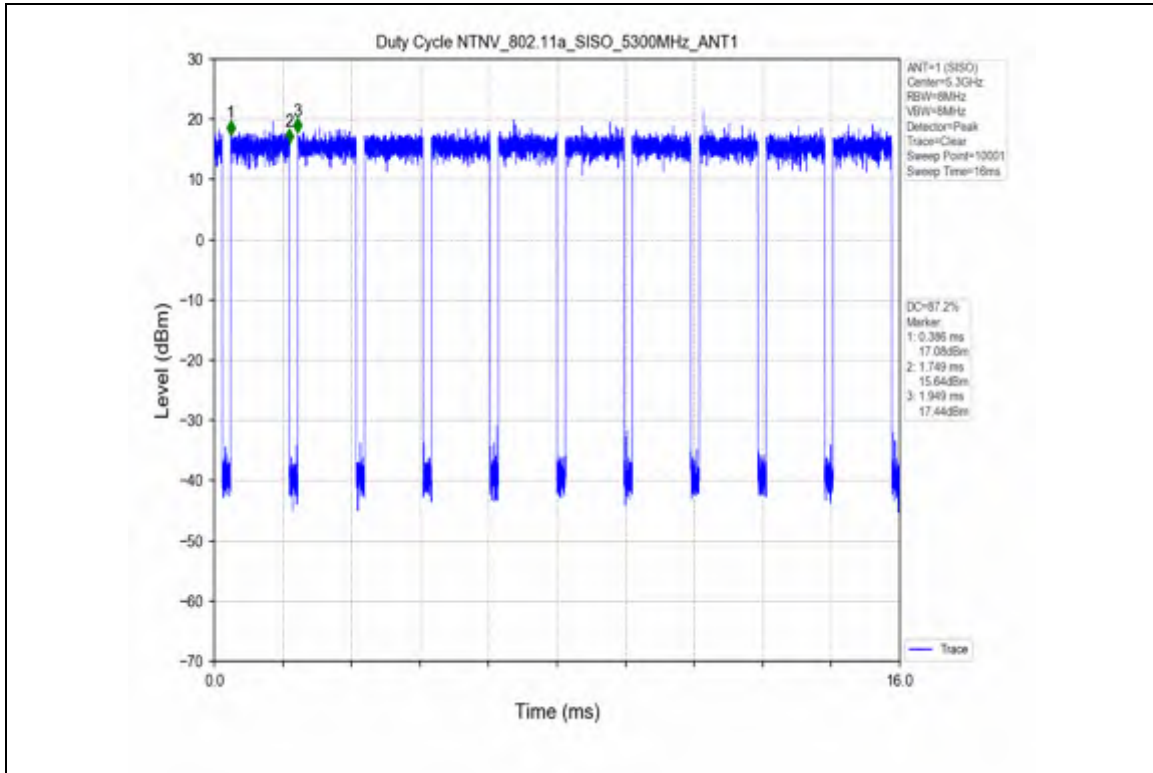
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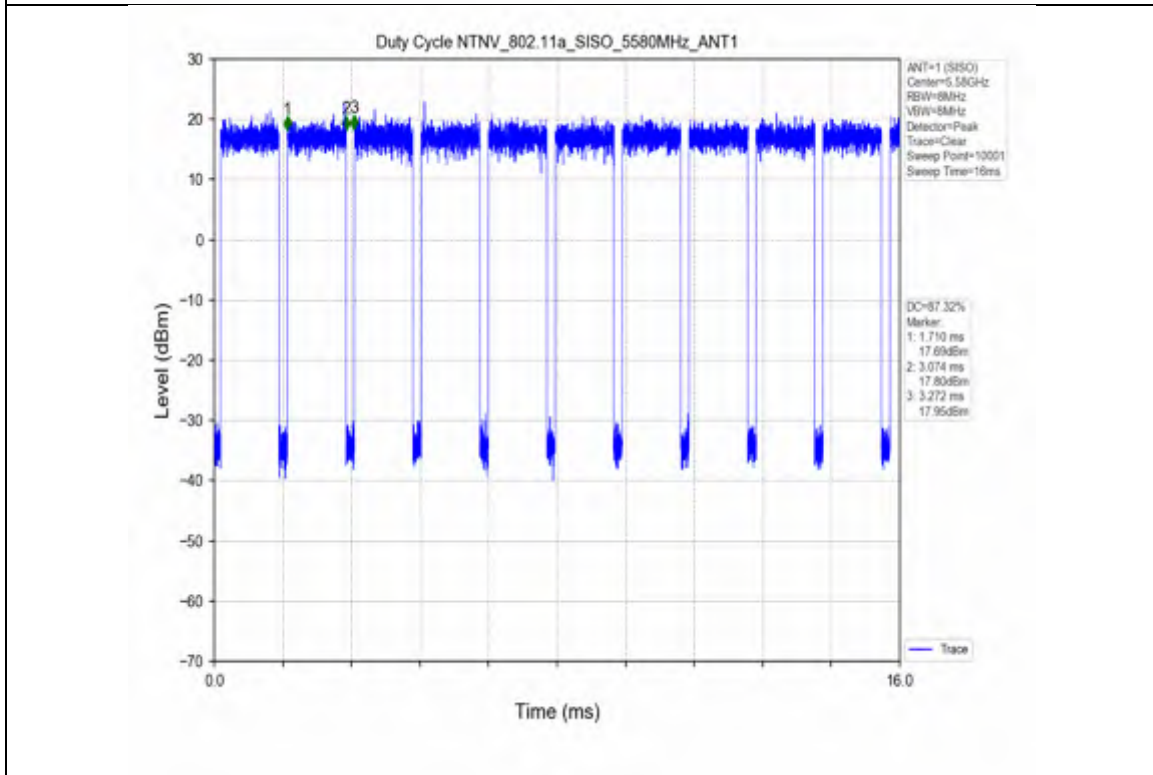
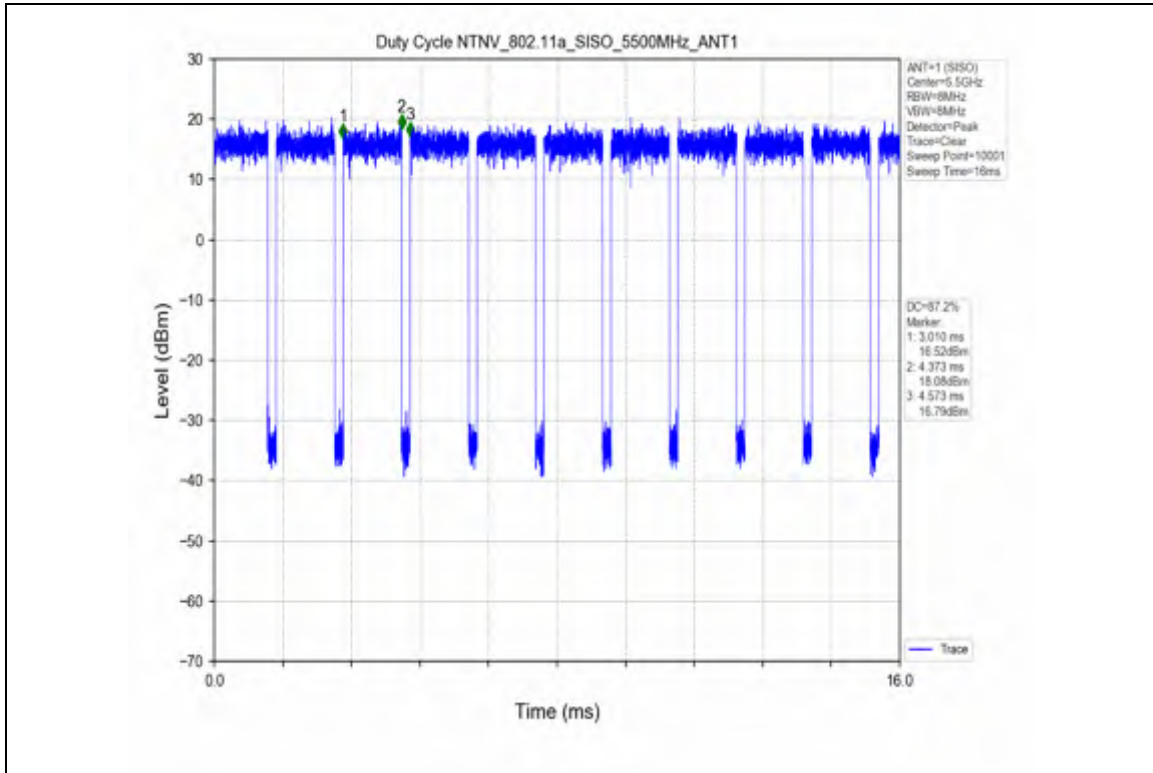
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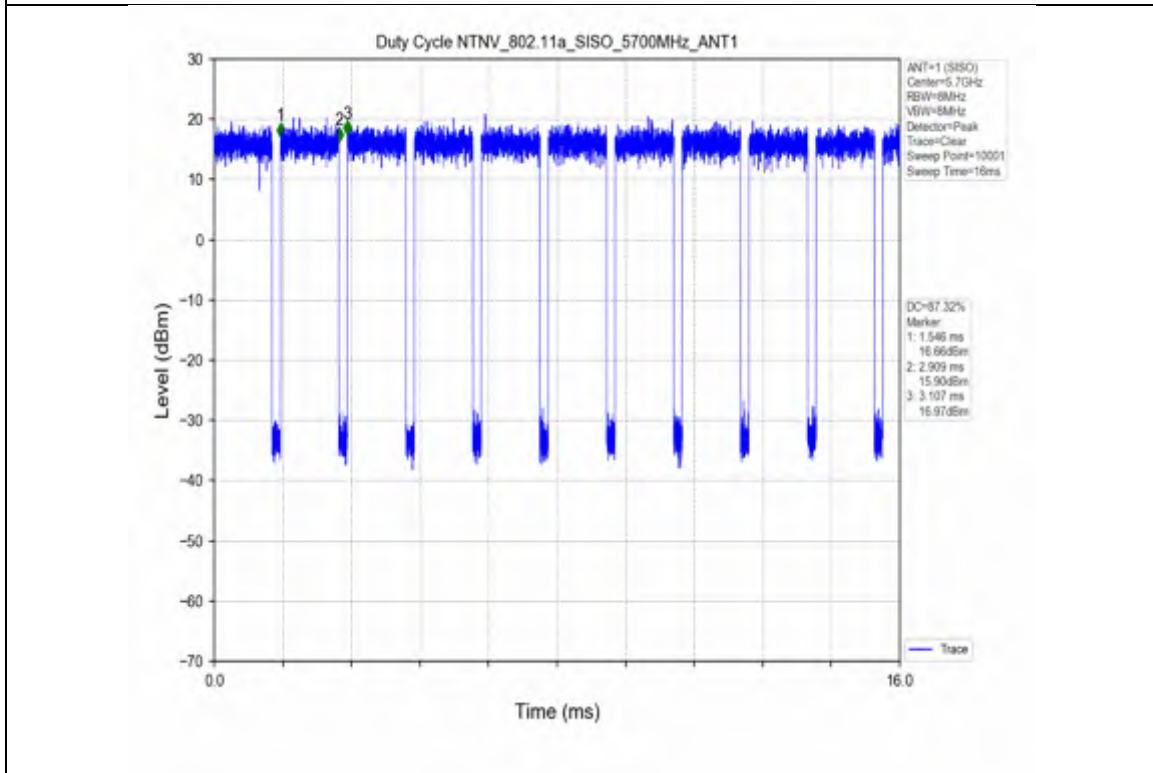
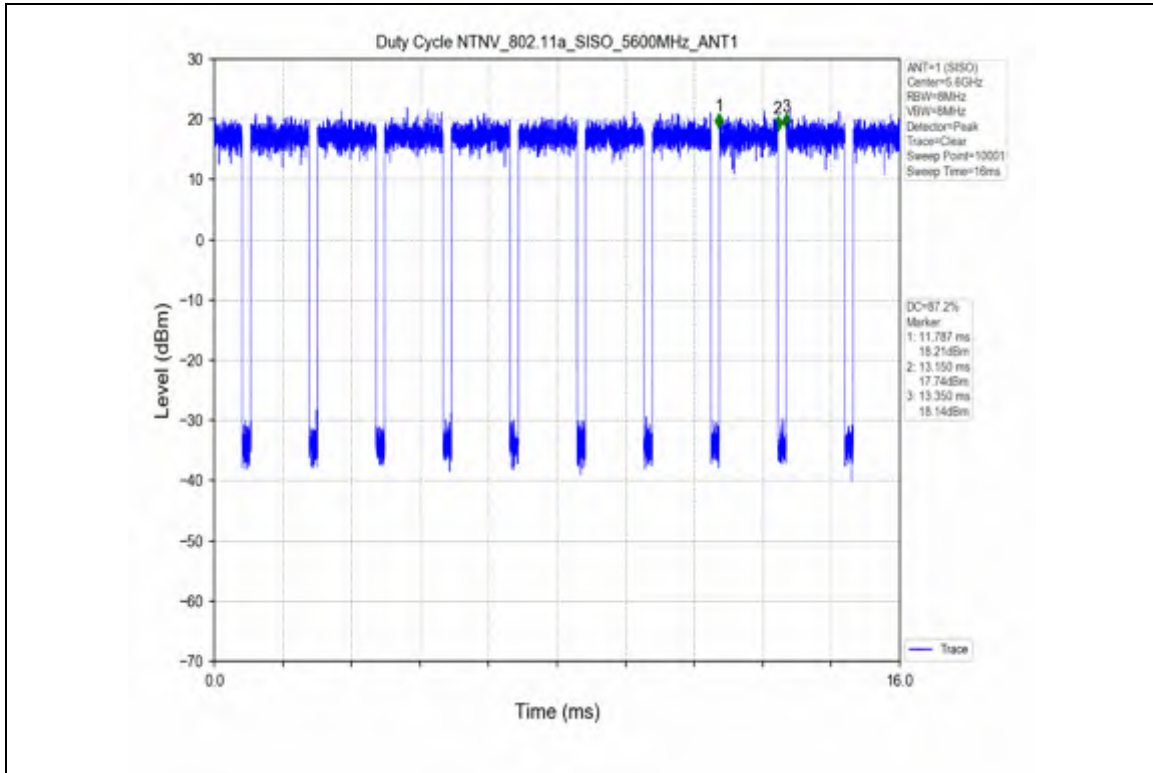


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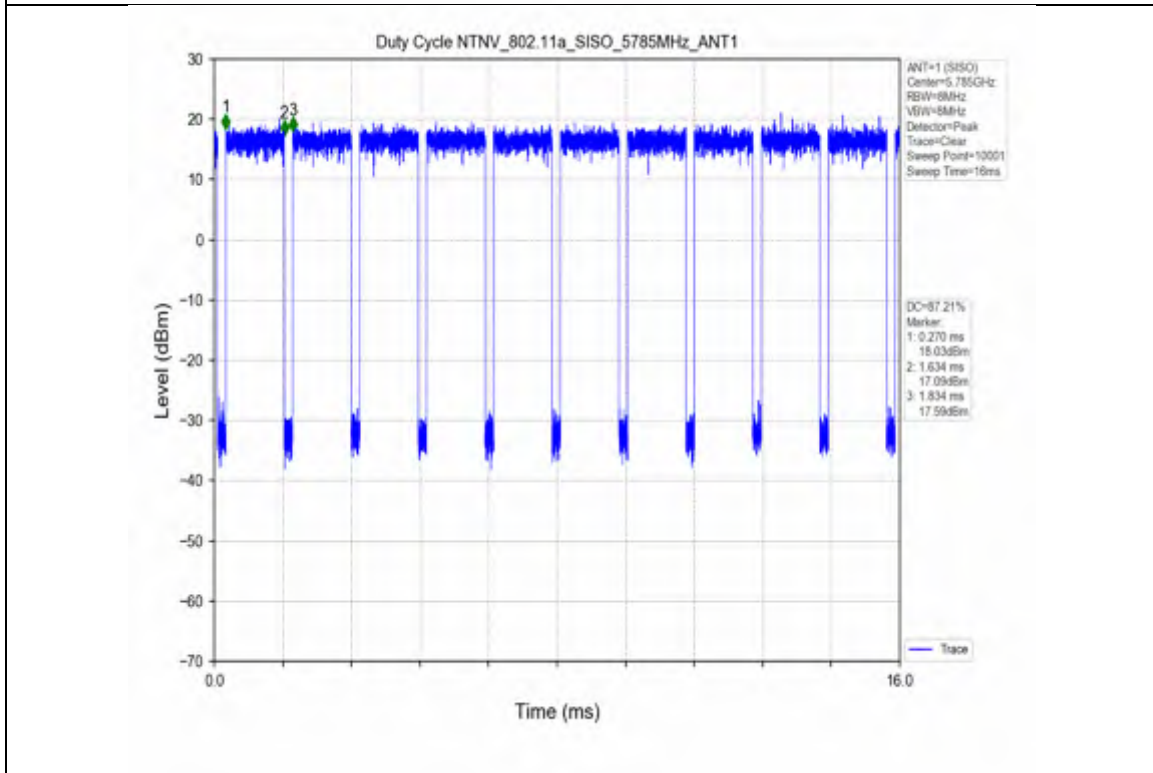
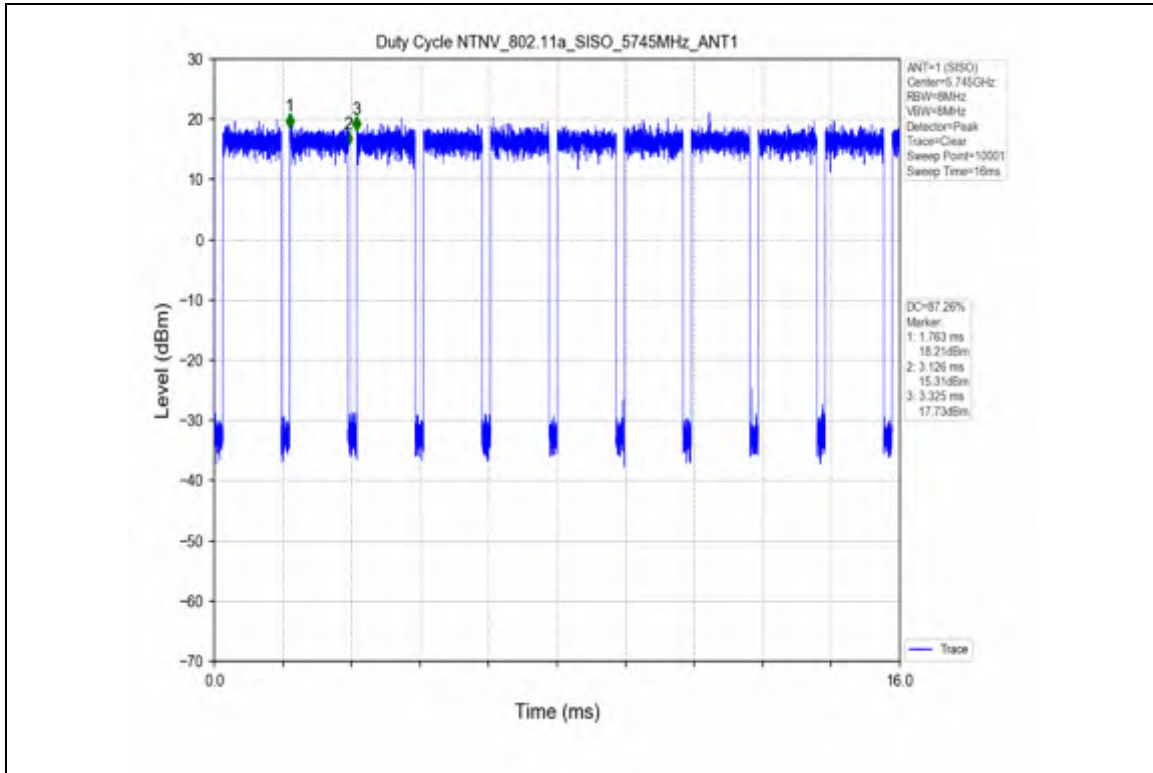
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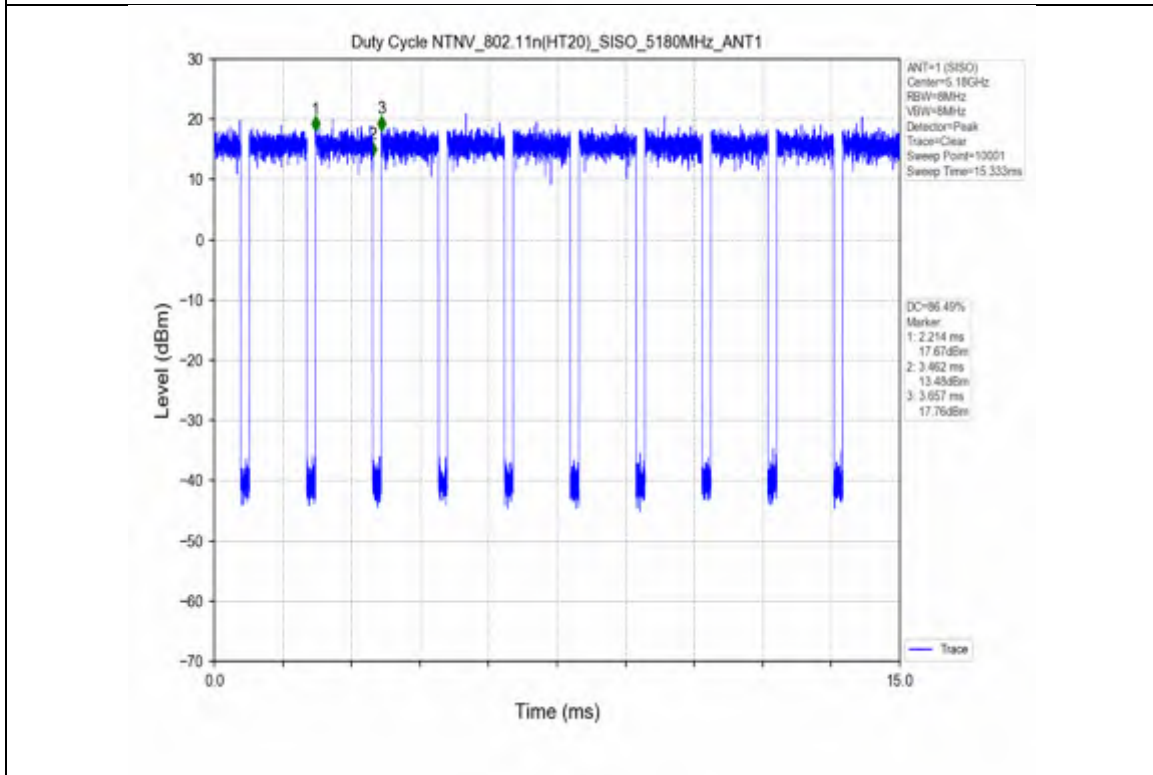
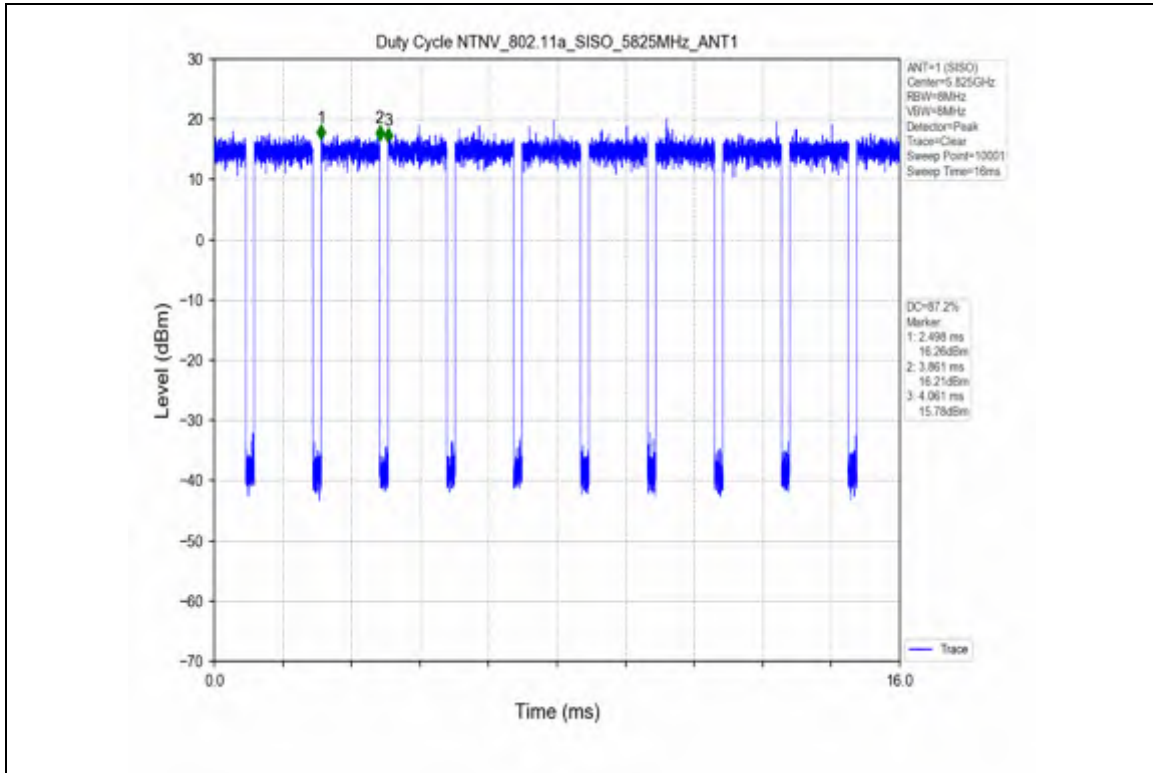


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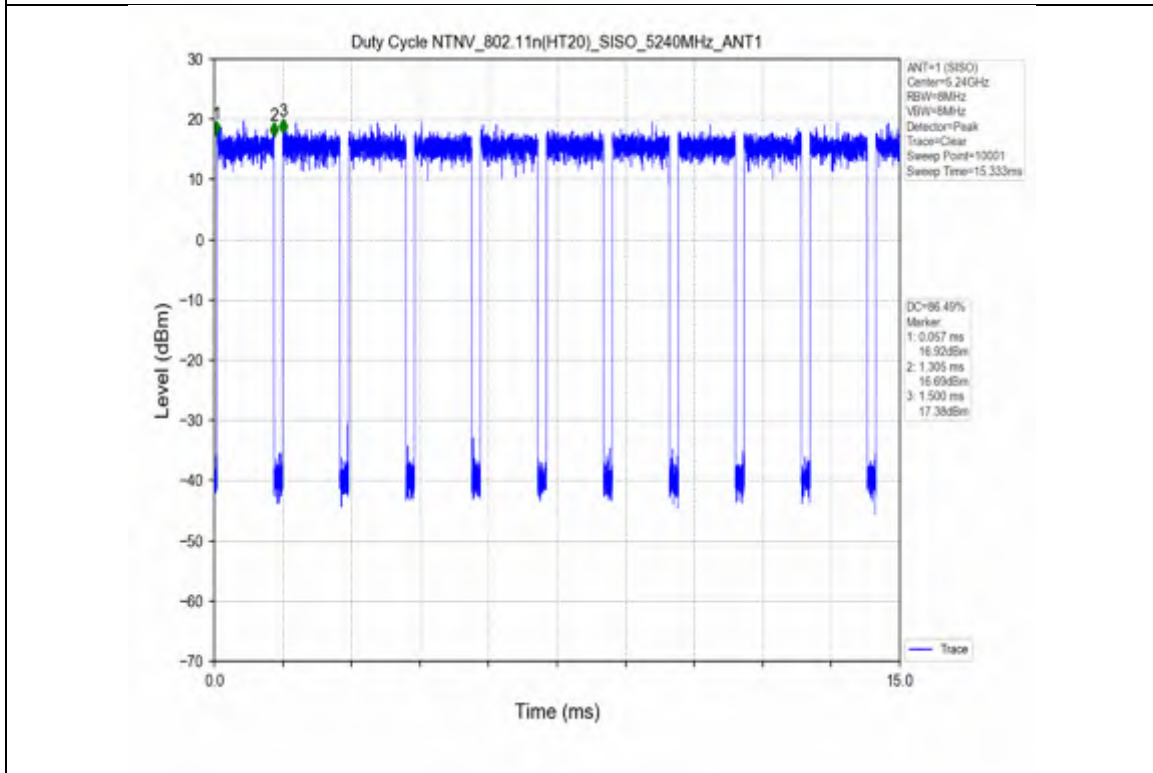
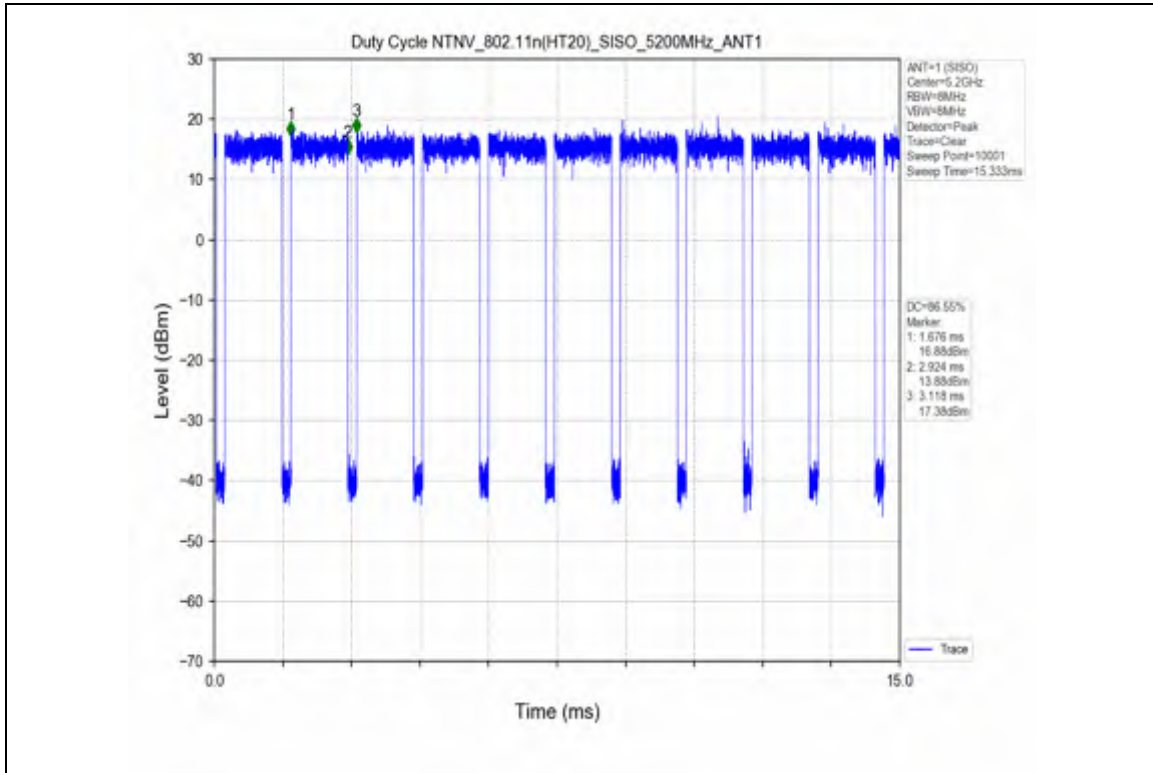
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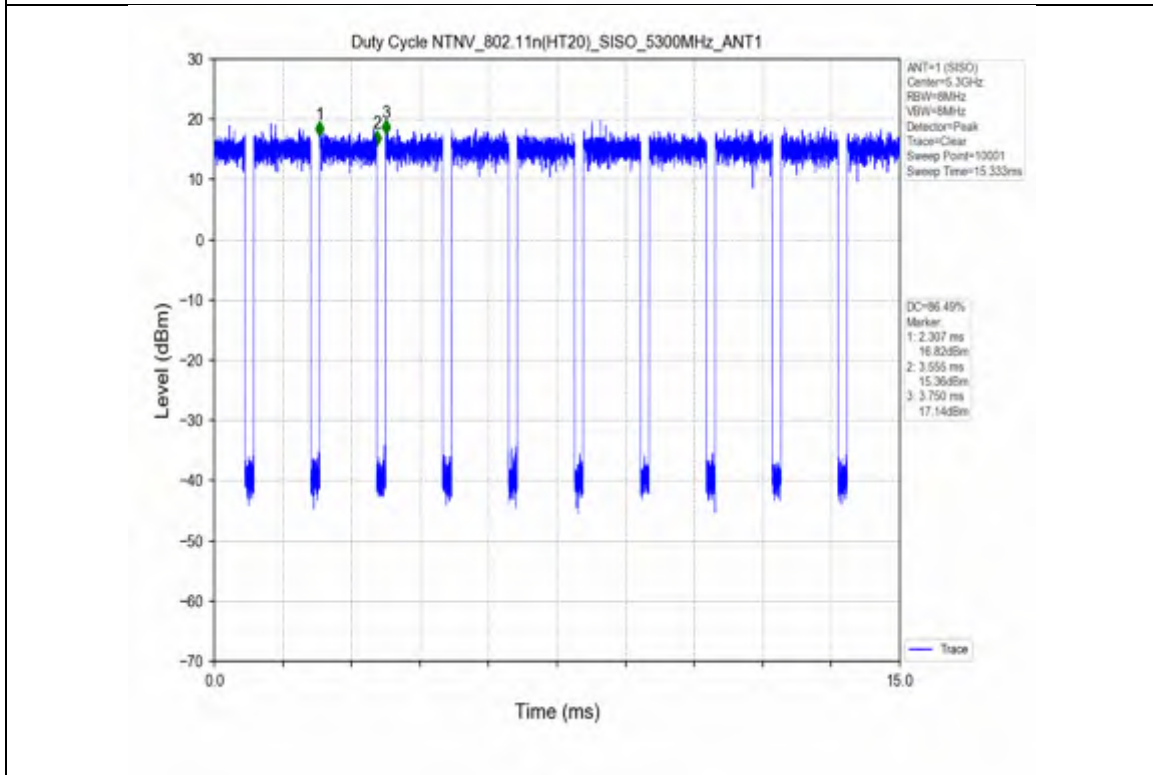
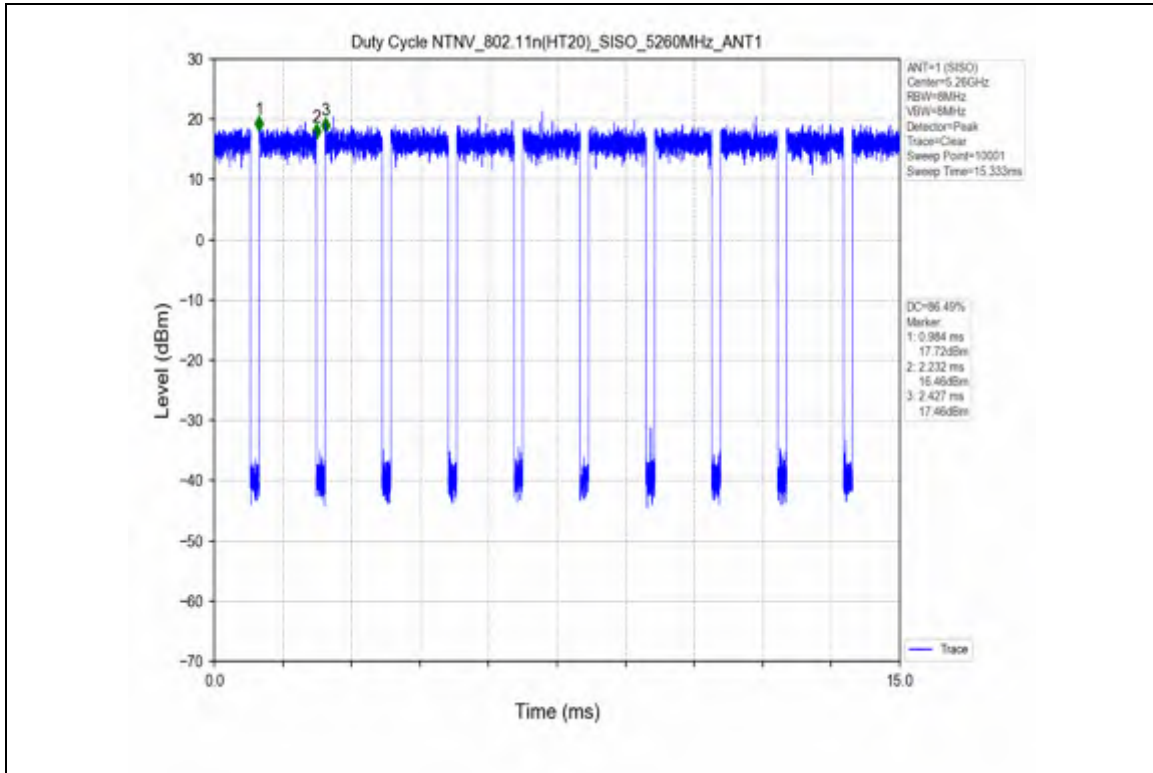
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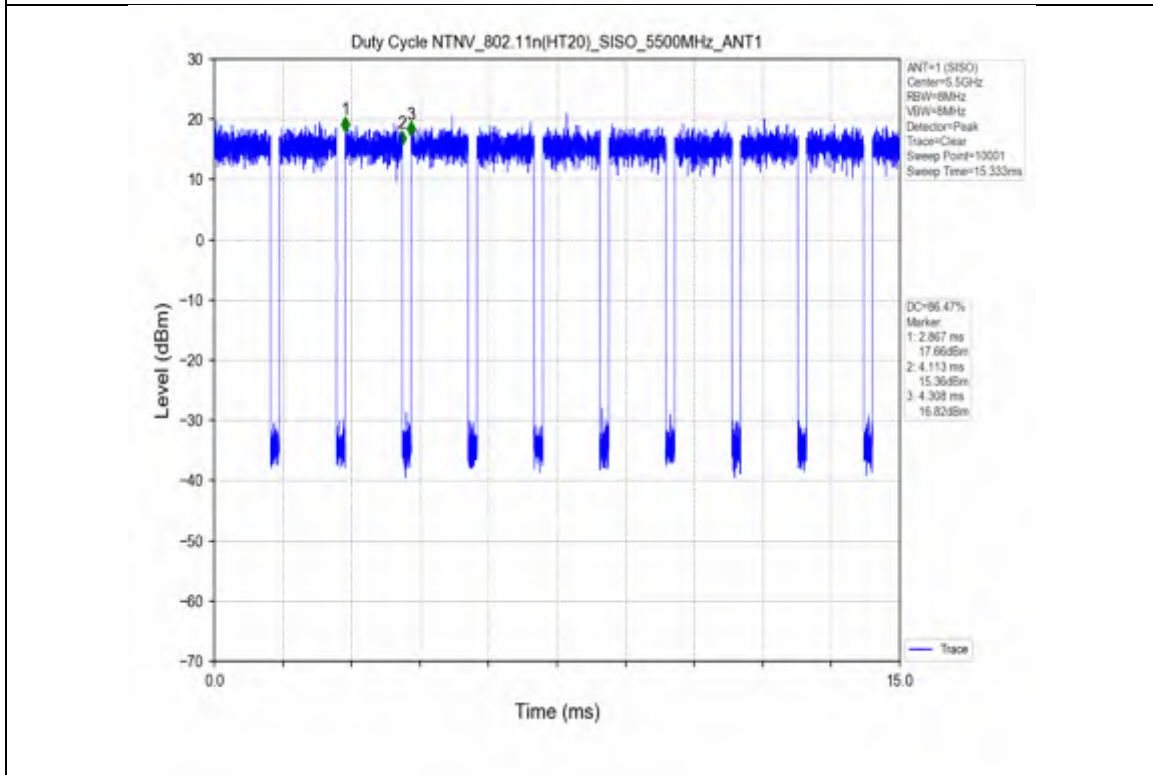
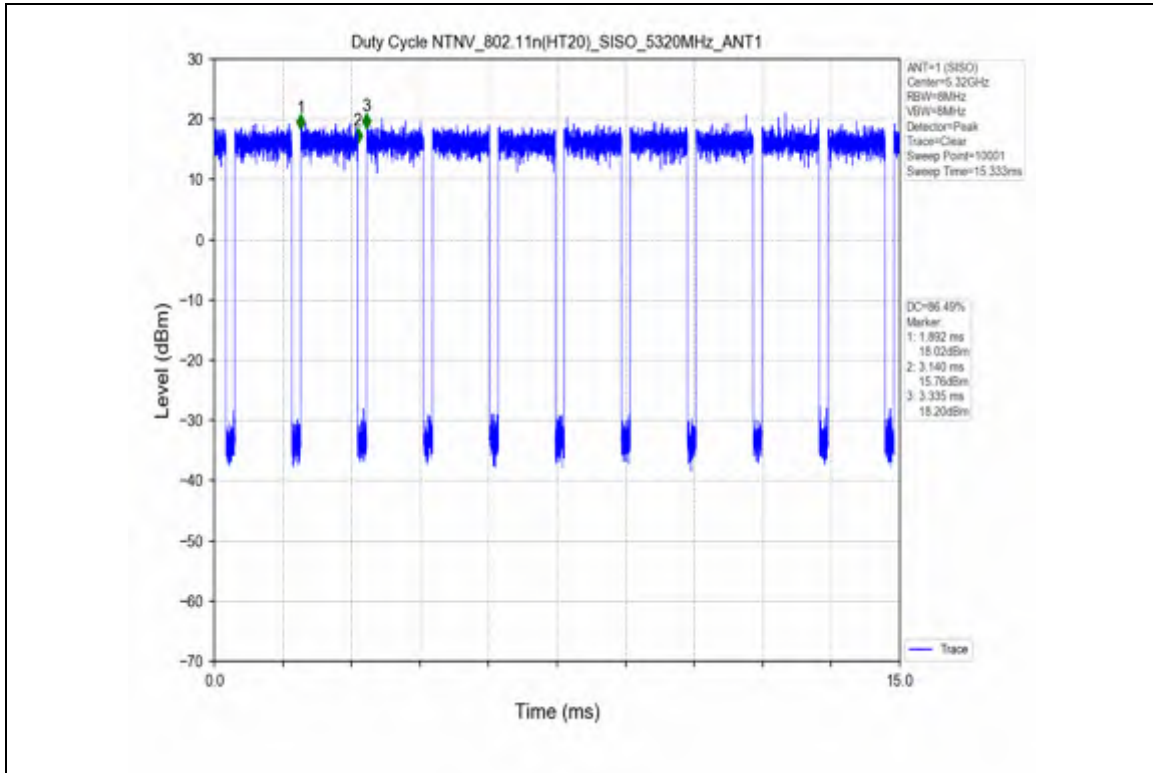


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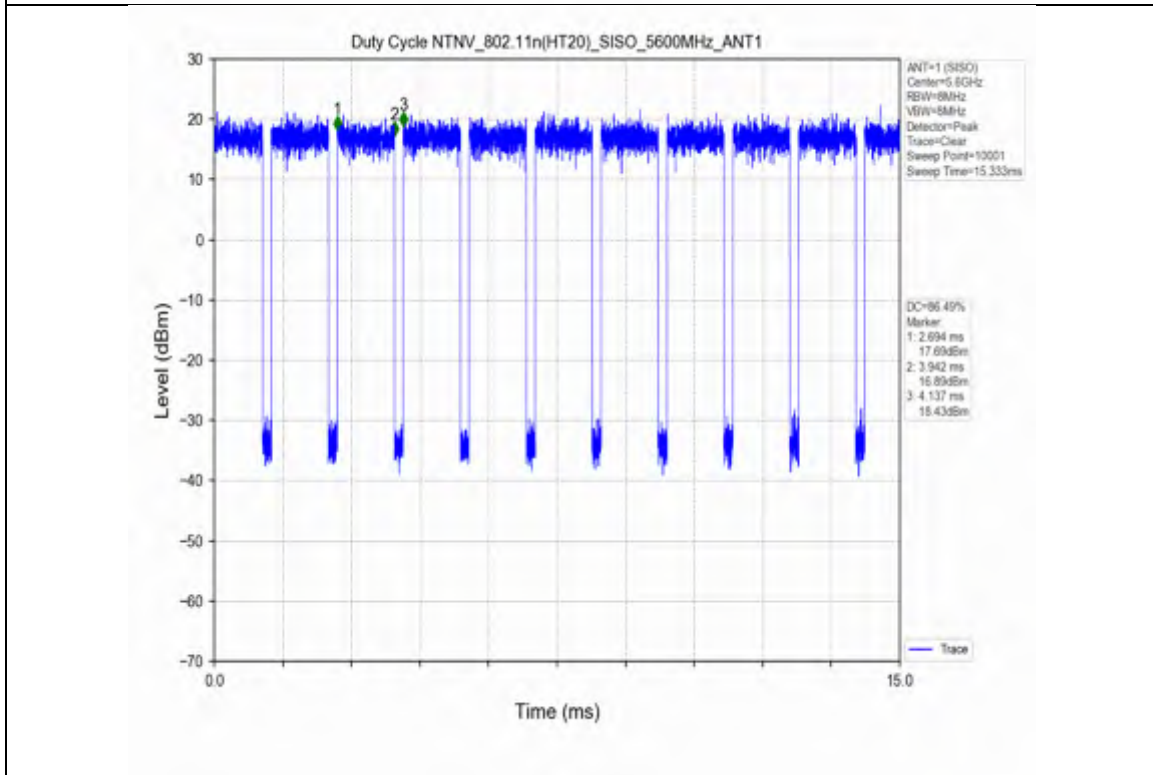
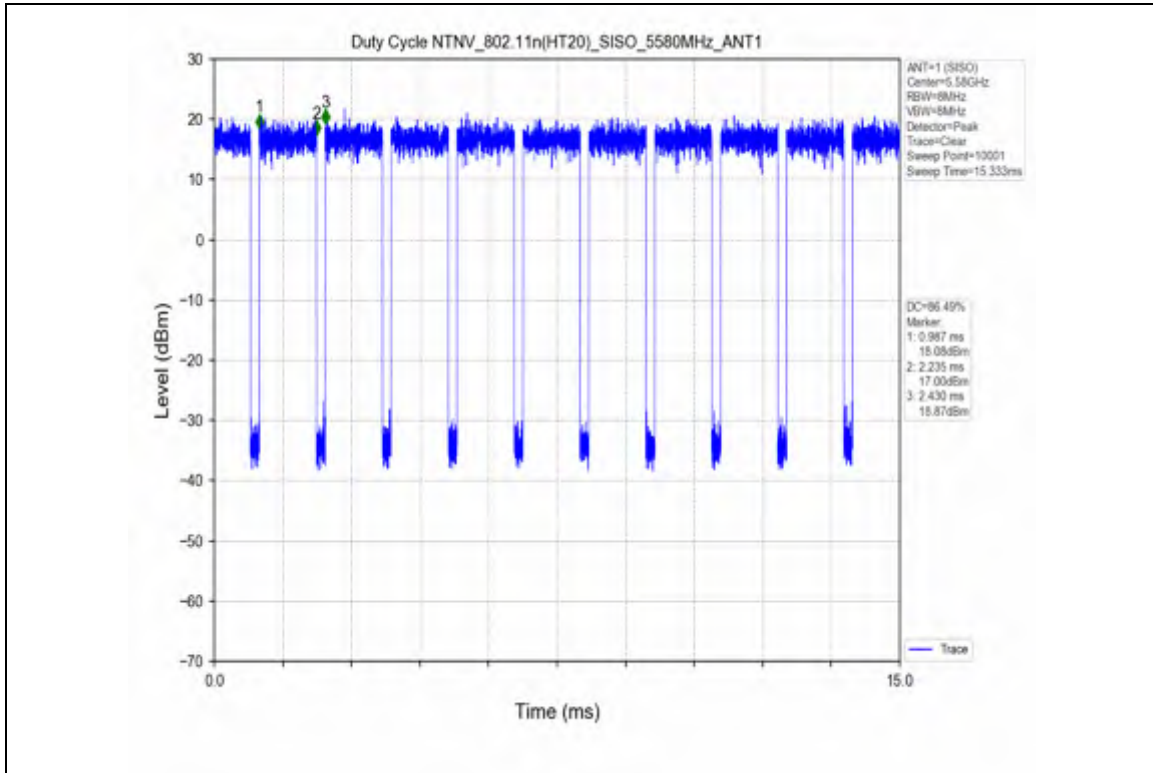


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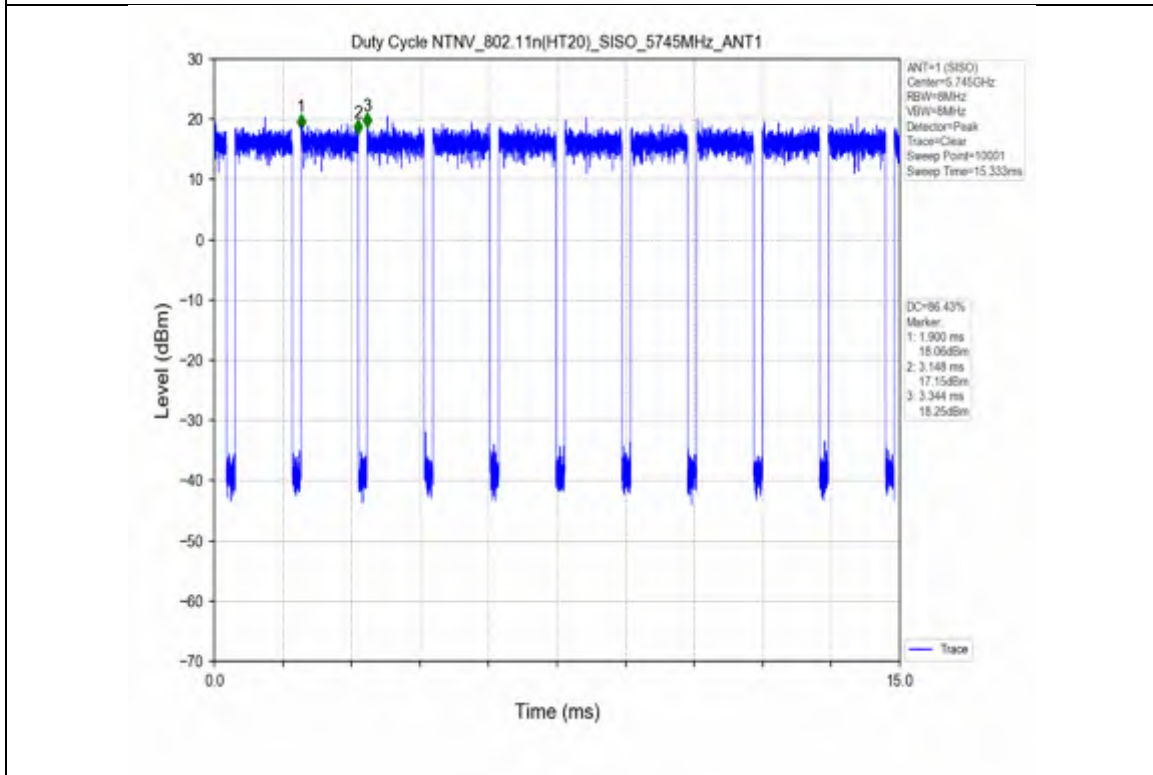
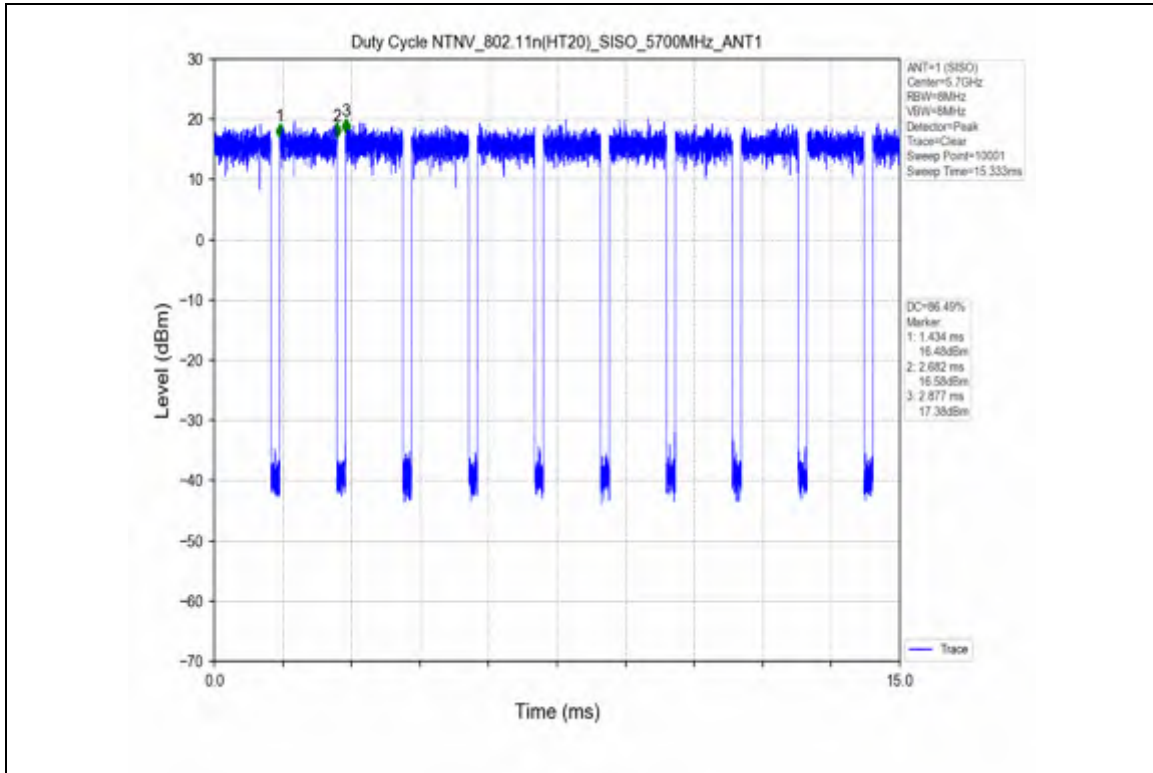


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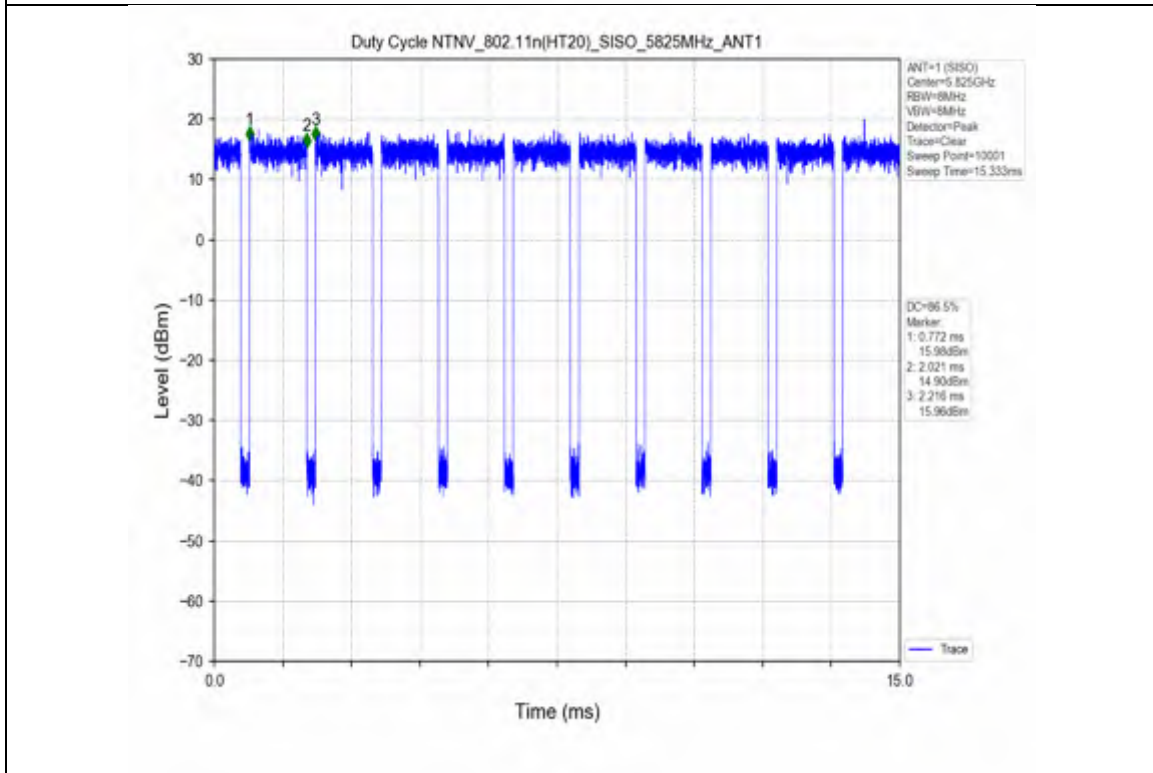
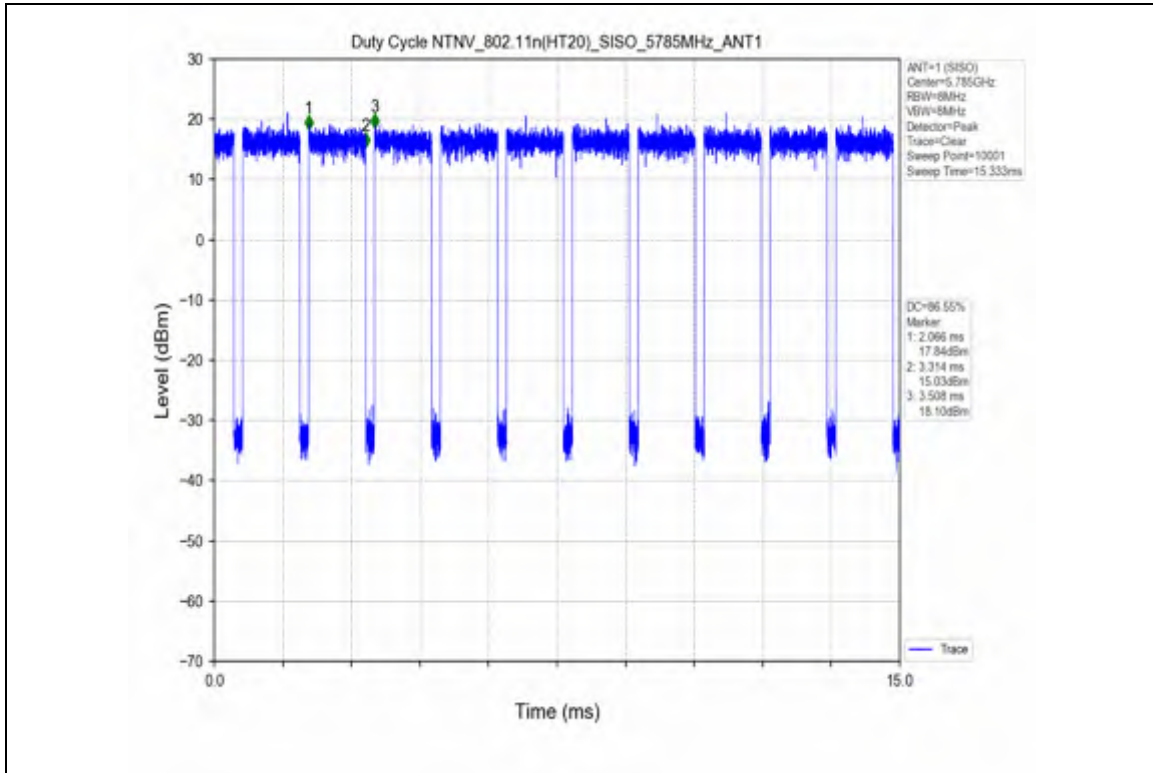
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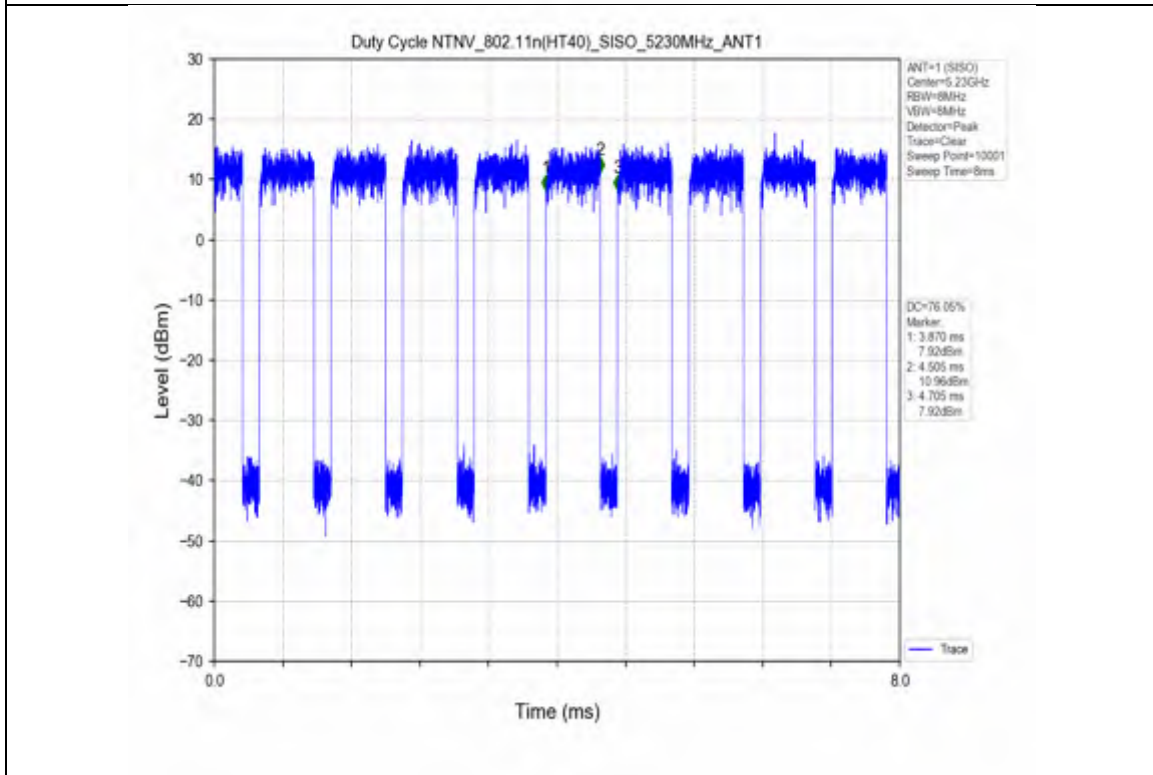
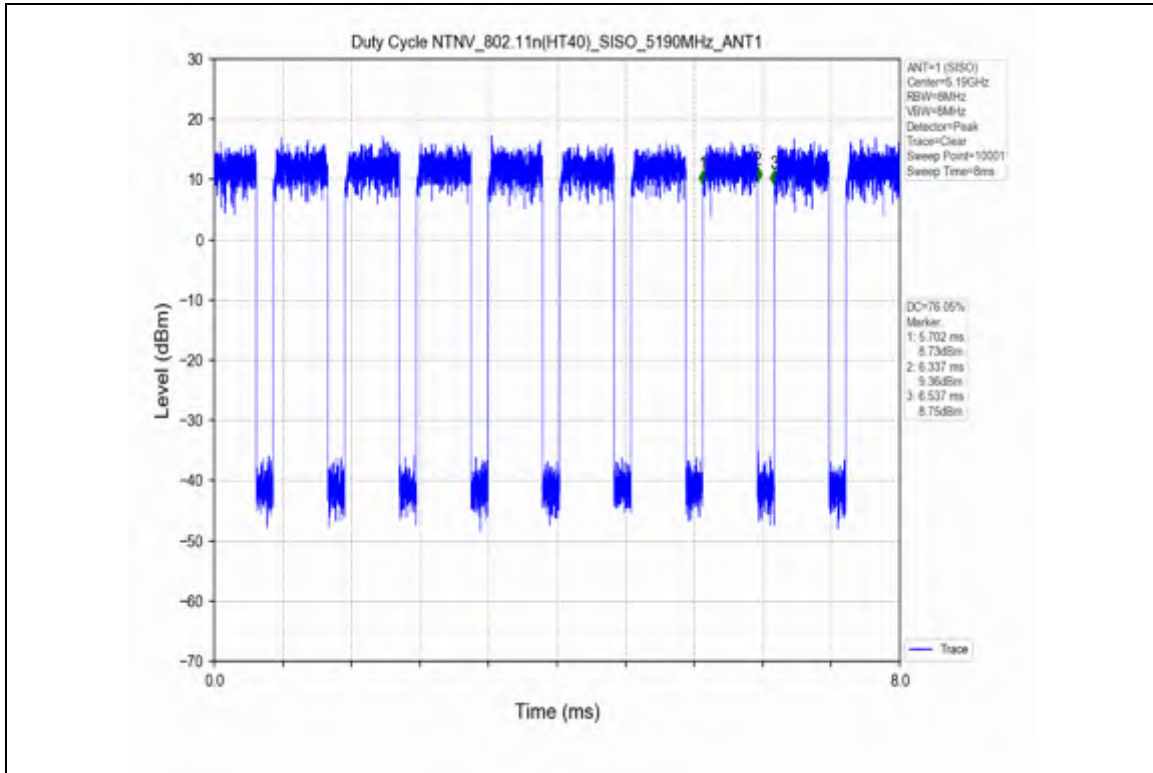
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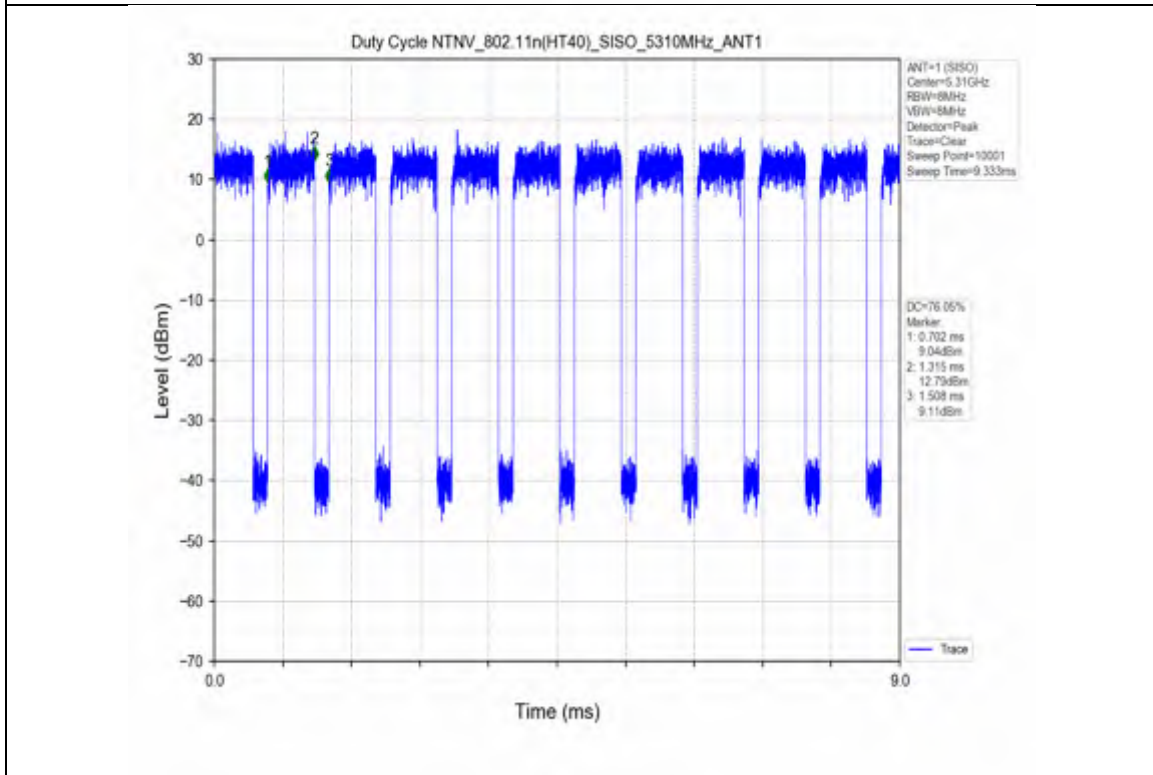
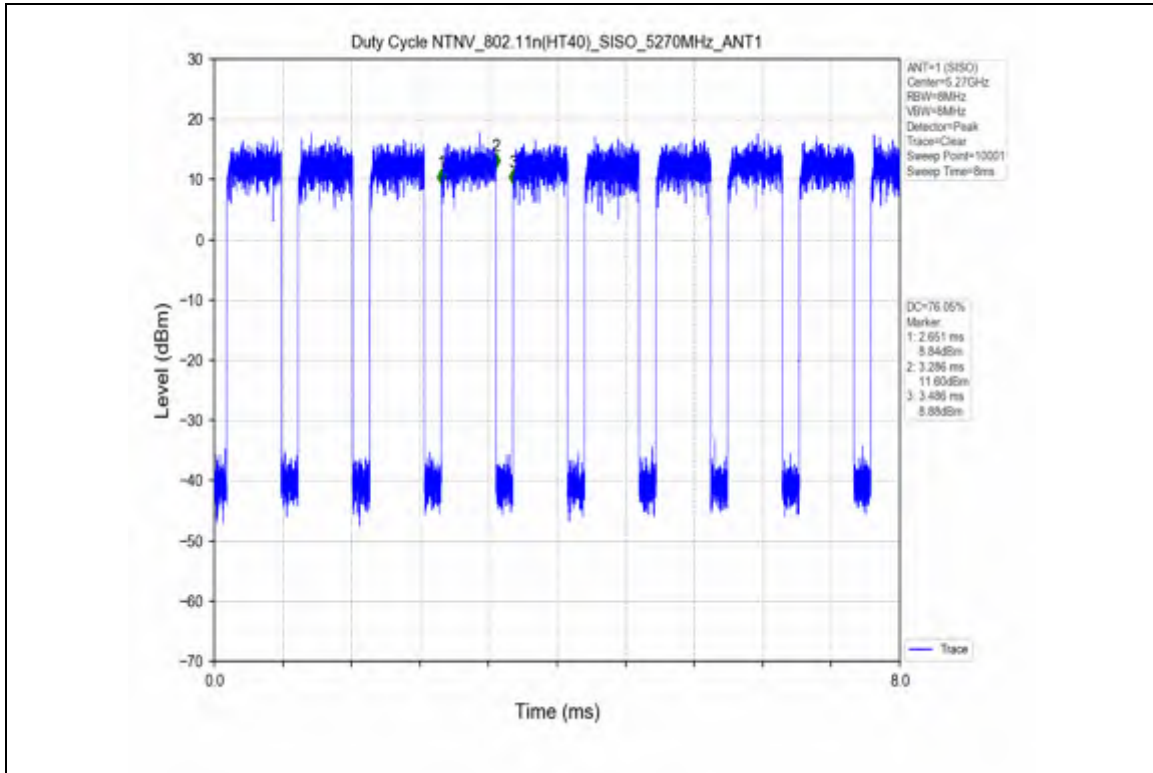
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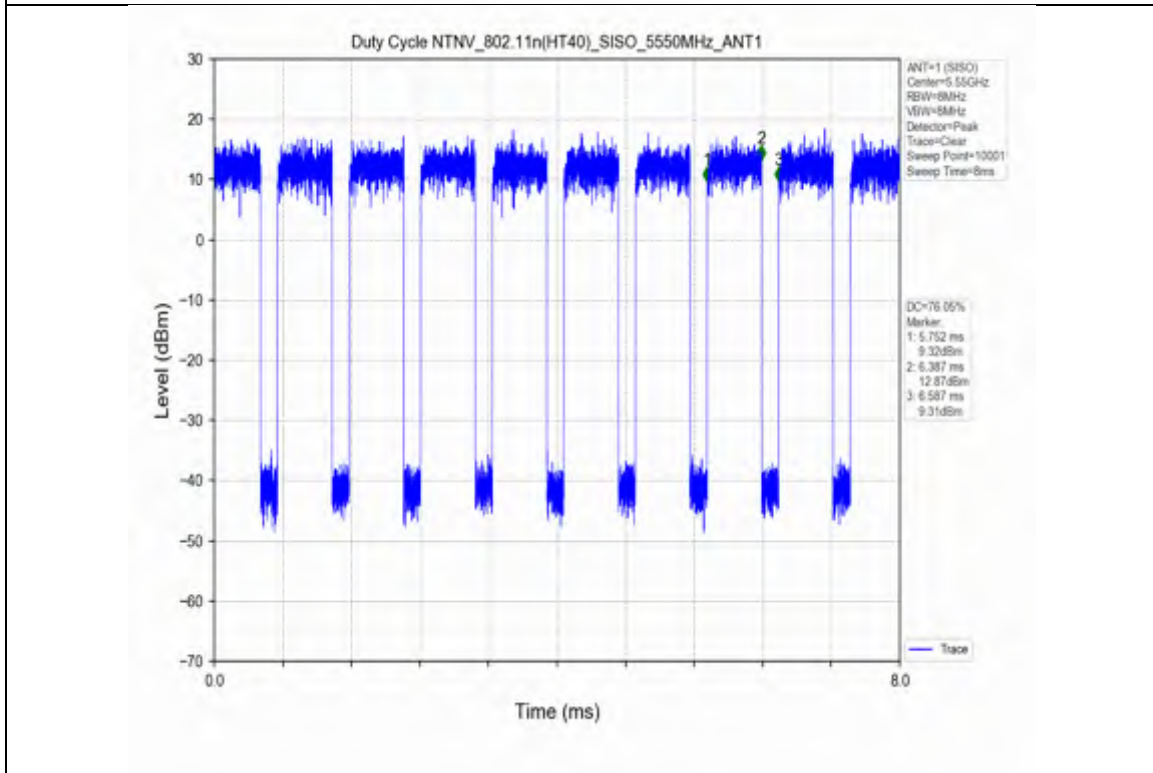
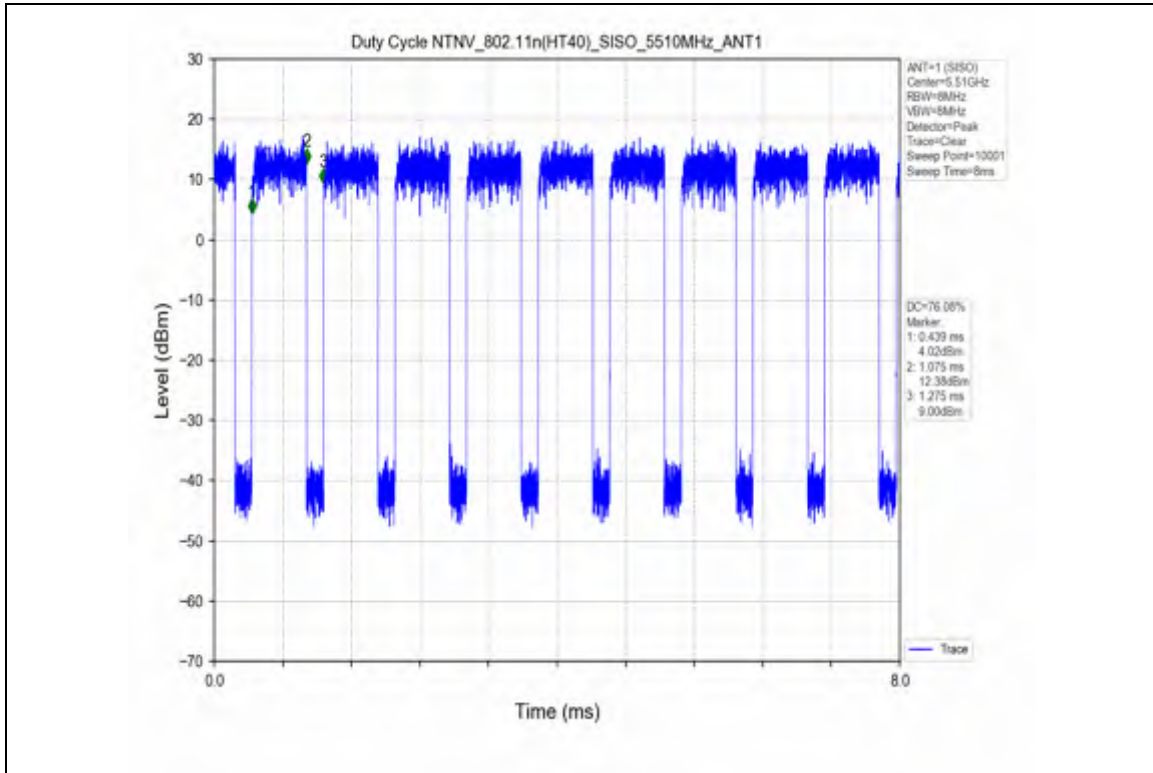
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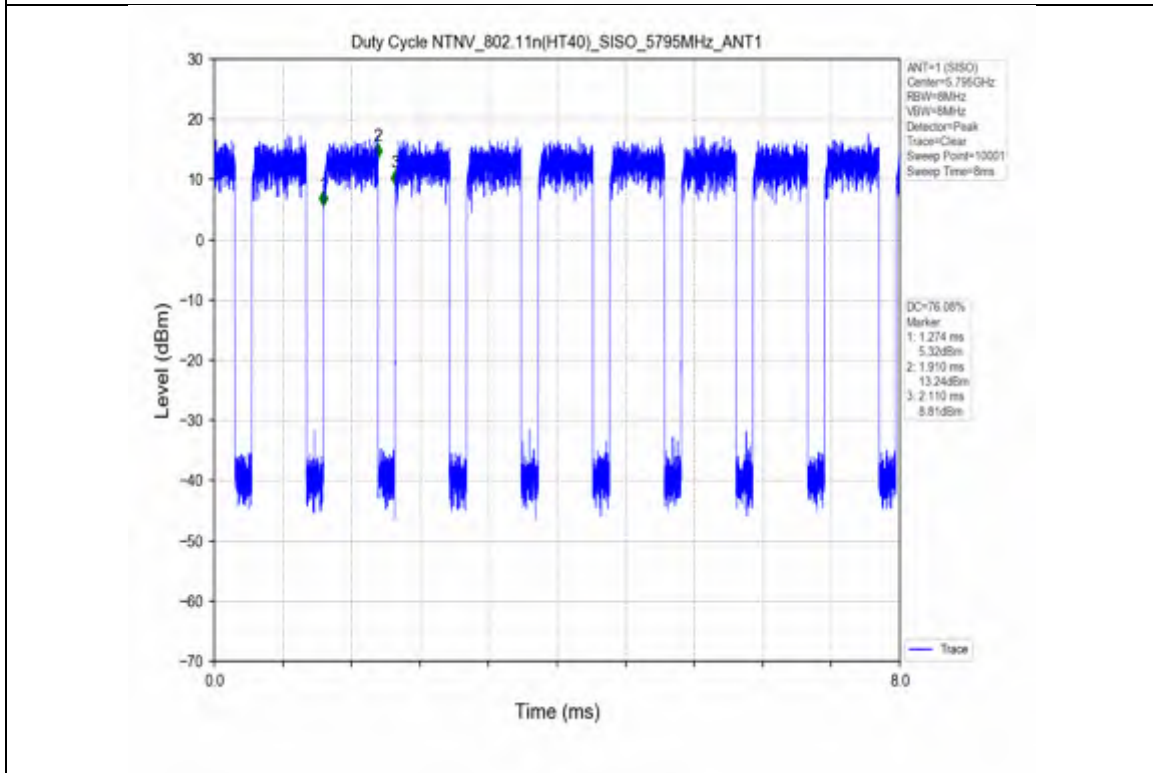
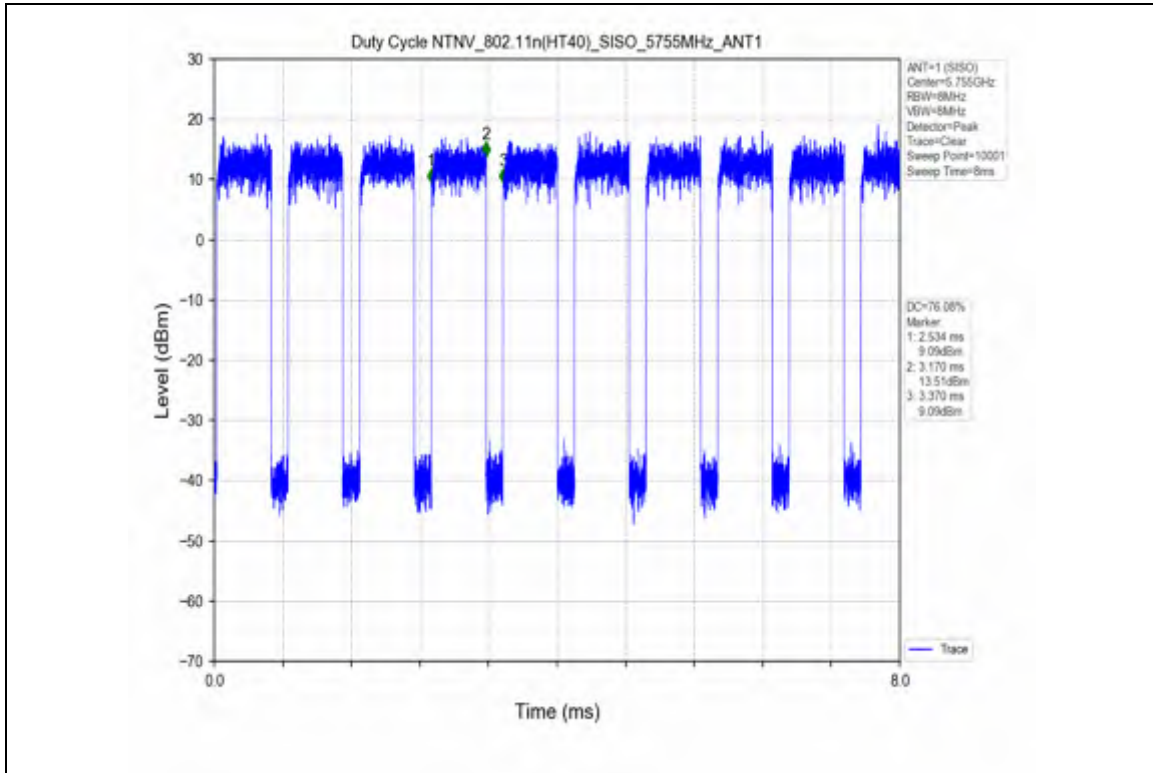
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2. Bandwidth

2.1 Test Result

Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5180	SISO	1	20.443	Only for Report Use	PASS
	5200	SISO	1	21.408	Only for Report Use	PASS
	5240	SISO	1	21.447	Only for Report Use	PASS
	5260	SISO	1	20.726	Only for Report Use	PASS
	5300	SISO	1	20.629	Only for Report Use	PASS
	5320	SISO	1	20.814	Only for Report Use	PASS
	5500	SISO	1	20.258	Only for Report Use	PASS
	5580	SISO	1	20.798	Only for Report Use	PASS
	5600	SISO	1	20.867	Only for Report Use	PASS
	5700	SISO	1	20.463	Only for Report Use	PASS
802.11n(HT20)	5180	SISO	1	21.603	Only for Report Use	PASS
	5200	SISO	1	21.481	Only for Report Use	PASS
	5240	SISO	1	21.281	Only for Report Use	PASS
	5260	SISO	1	20.722	Only for Report Use	PASS
	5300	SISO	1	20.960	Only for Report Use	PASS
	5320	SISO	1	21.463	Only for Report Use	PASS
	5500	SISO	1	20.711	Only for Report Use	PASS
	5580	SISO	1	20.662	Only for Report Use	PASS
	5600	SISO	1	20.977	Only for Report Use	PASS
802.11n(HT40)	5190	SISO	1	43.084	Only for Report Use	PASS
	5230	SISO	1	43.531	Only for Report Use	PASS
	5270	SISO	1	42.978	Only for Report Use	PASS
	5310	SISO	1	43.233	Only for Report Use	PASS
	5510	SISO	1	42.556	Only for Report Use	PASS
	5550	SISO	1	44.299	Only for Report Use	PASS
	5590	SISO	1	42.684	Only for Report Use	PASS
5670	SISO	1	42.776	Only for Report Use	PASS	

Test Mode	Frequency (MHz)	TX Type	ANT No.	Emission Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11a	5745	SISO	1	16.393	≥0.5	PASS
	5785	SISO	1	16.387	≥0.5	PASS
	5825	SISO	1	16.404	≥0.5	PASS
802.11n(HT20)	5745	SISO	1	17.037	≥0.5	PASS
	5785	SISO	1	17.066	≥0.5	PASS
	5825	SISO	1	17.094	≥0.5	PASS
802.11n(HT40)	5755	SISO	1	36.048	≥0.5	PASS
	5795	SISO	1	36.245	≥0.5	PASS

Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11a	5180	SISO	1	16.785	Only for Report Use
	5200	SISO	1	16.845	Only for Report Use
	5240	SISO	1	16.759	Only for Report Use
	5260	SISO	1	16.857	Only for Report Use



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	5300	SISO	1	16.753	Only for Report Use
	5320	SISO	1	16.746	Only for Report Use
	5500	SISO	1	16.790	Only for Report Use
	5580	SISO	1	16.865	Only for Report Use
	5600	SISO	1	16.785	Only for Report Use
	5700	SISO	1	16.797	Only for Report Use
	5745	SISO	1	16.894	Only for Report Use
	5785	SISO	1	16.774	Only for Report Use
802.11n(HT20)	5825	SISO	1	16.858	Only for Report Use
	5180	SISO	1	17.803	Only for Report Use
	5200	SISO	1	17.755	Only for Report Use
	5240	SISO	1	17.857	Only for Report Use
	5260	SISO	1	17.848	Only for Report Use
	5300	SISO	1	17.825	Only for Report Use
	5320	SISO	1	17.753	Only for Report Use
	5500	SISO	1	17.758	Only for Report Use
	5580	SISO	1	17.762	Only for Report Use
	5600	SISO	1	17.780	Only for Report Use
	5700	SISO	1	17.807	Only for Report Use
	5745	SISO	1	17.811	Only for Report Use
802.11n(HT40)	5785	SISO	1	17.871	Only for Report Use
	5825	SISO	1	17.794	Only for Report Use
	5190	SISO	1	37.019	Only for Report Use
	5230	SISO	1	37.021	Only for Report Use
	5270	SISO	1	37.064	Only for Report Use
	5310	SISO	1	37.284	Only for Report Use
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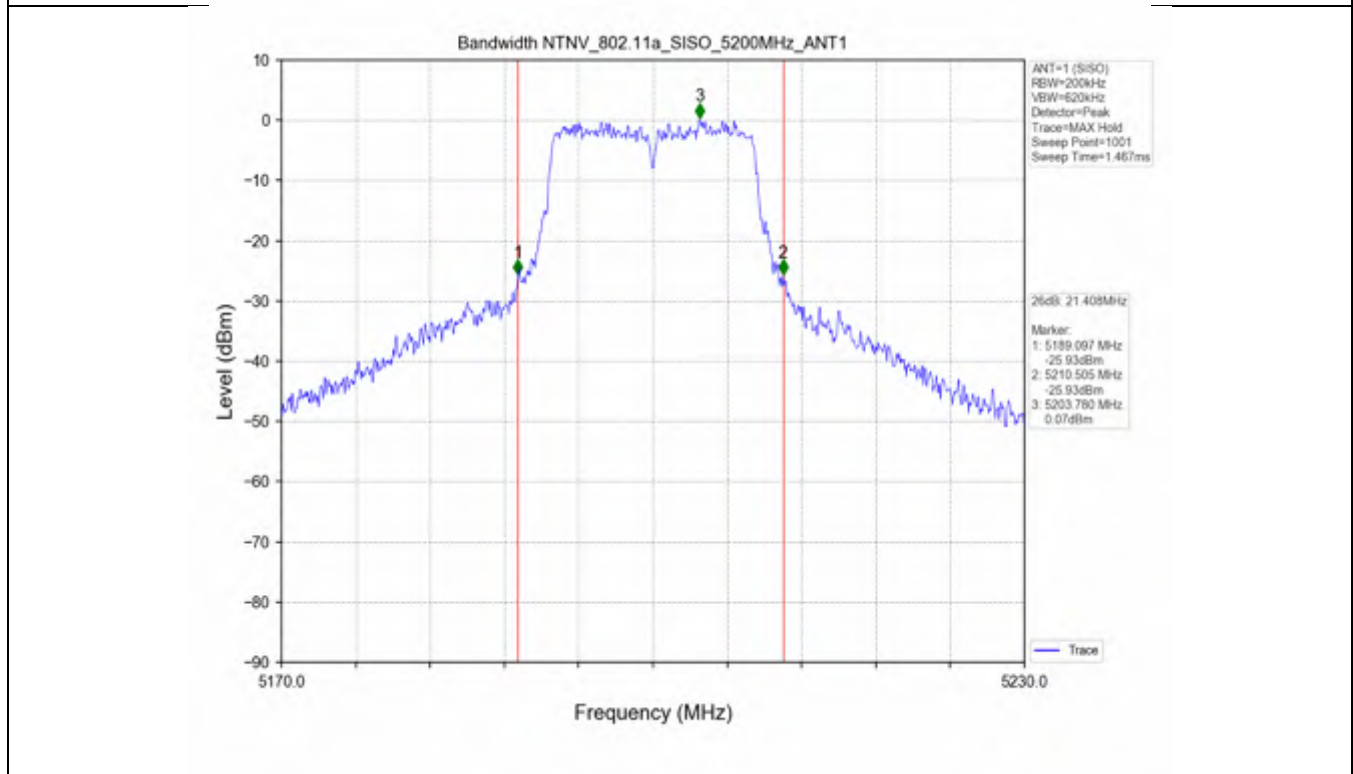
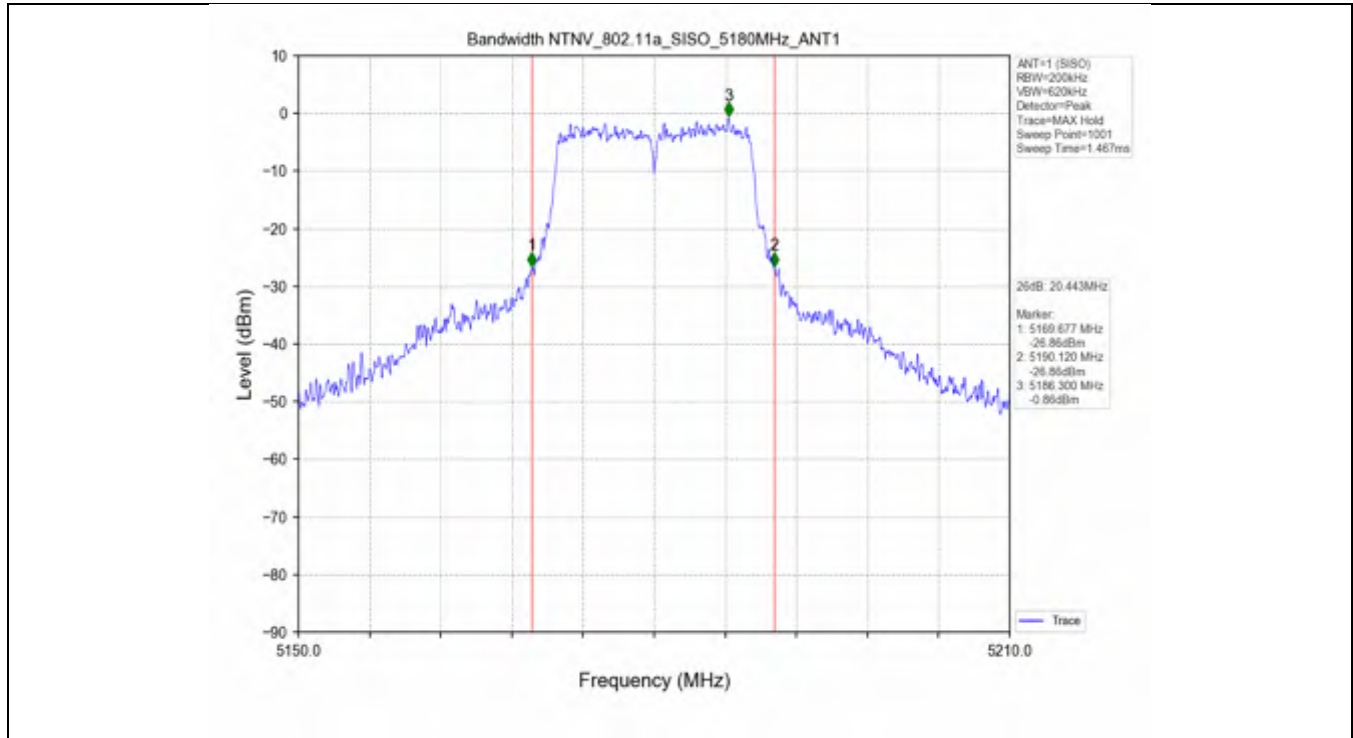


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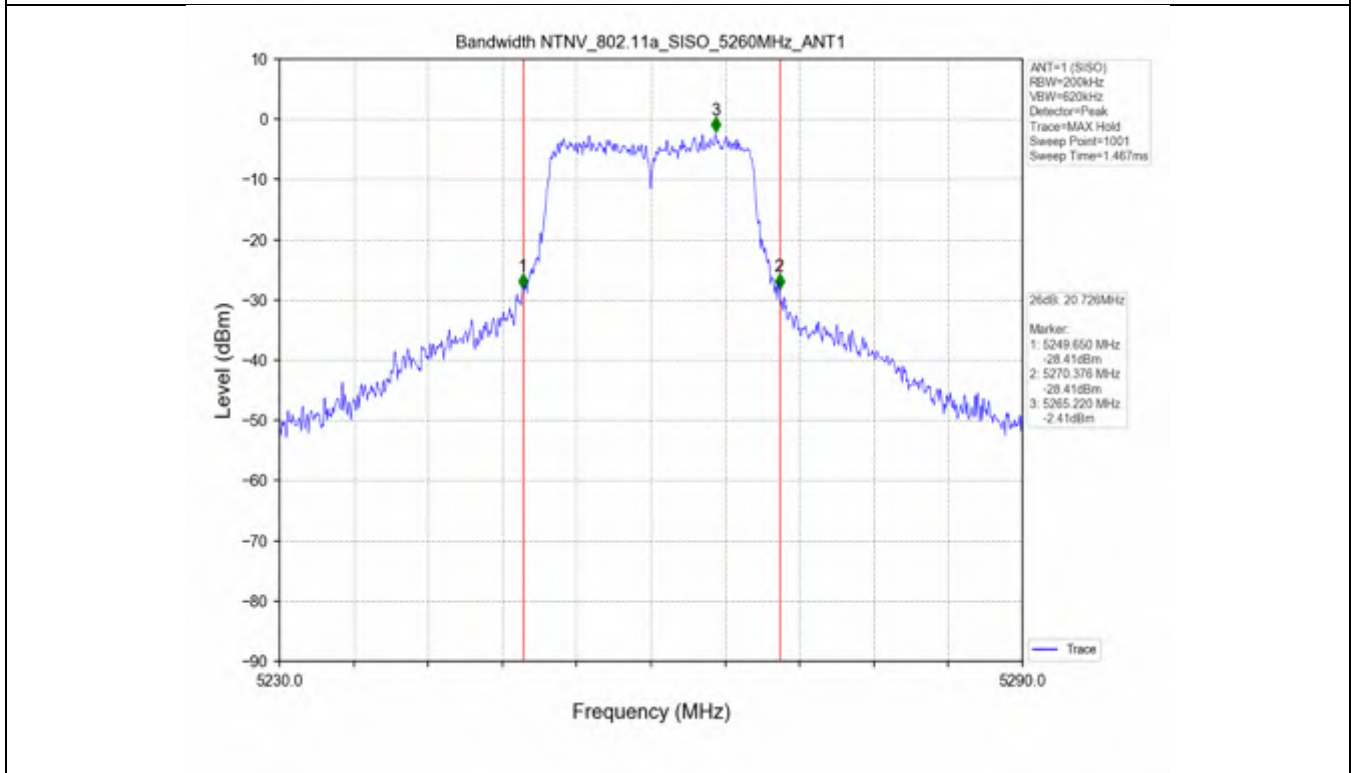
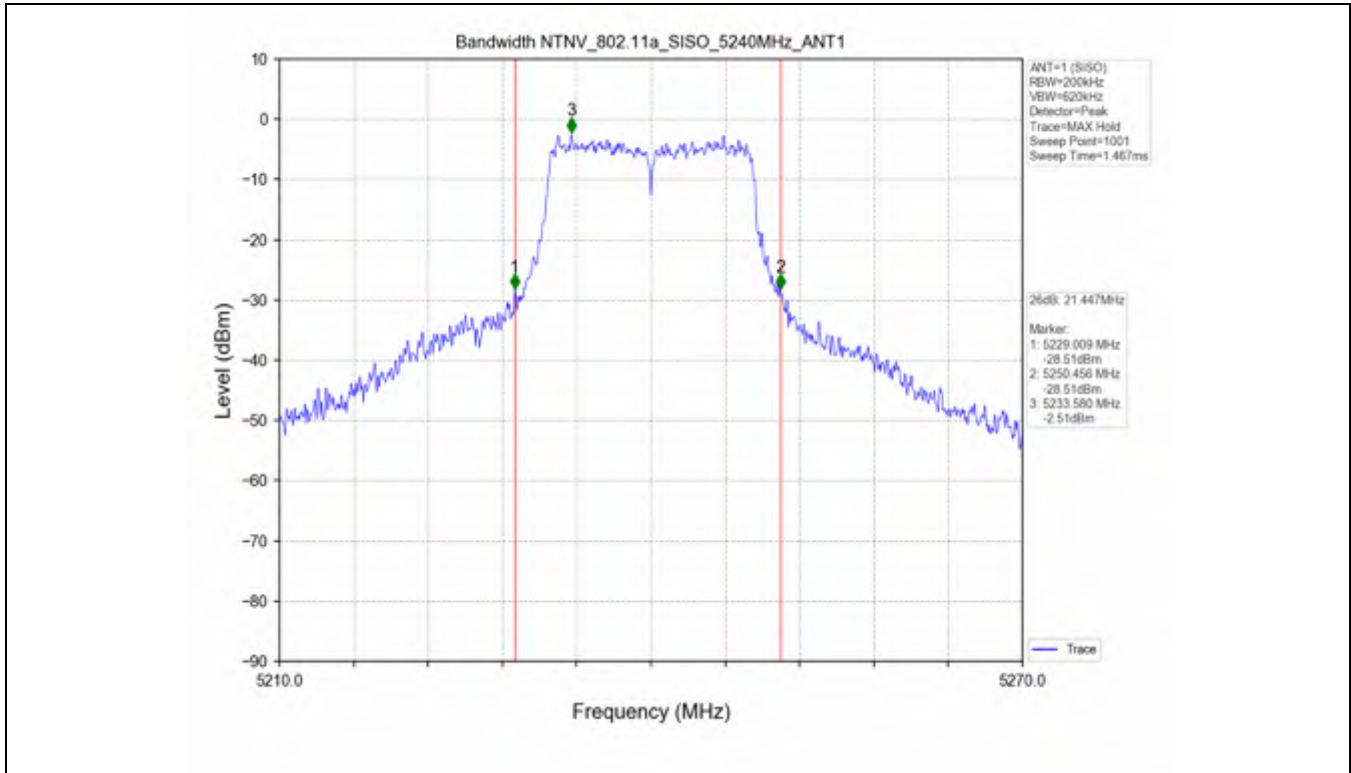
2.2 Test Graph - Emission Bandwidth



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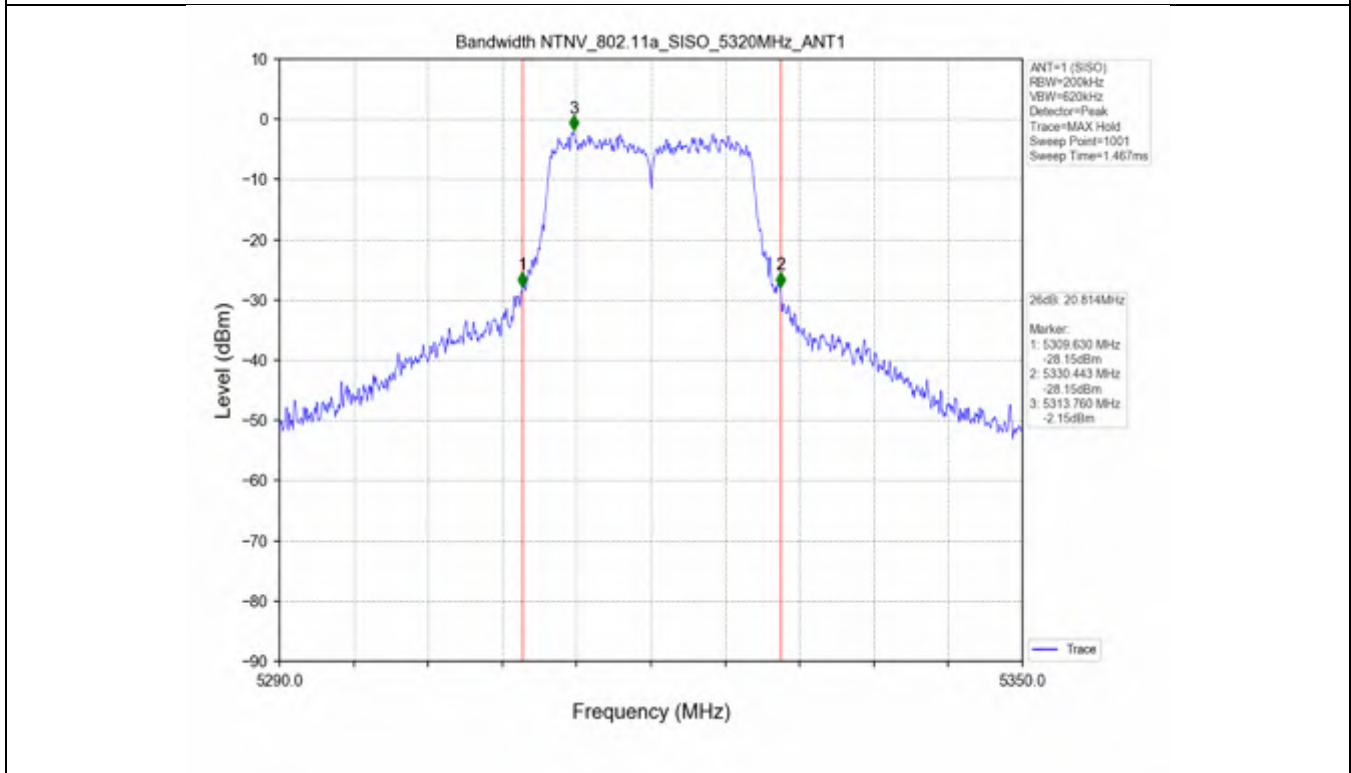
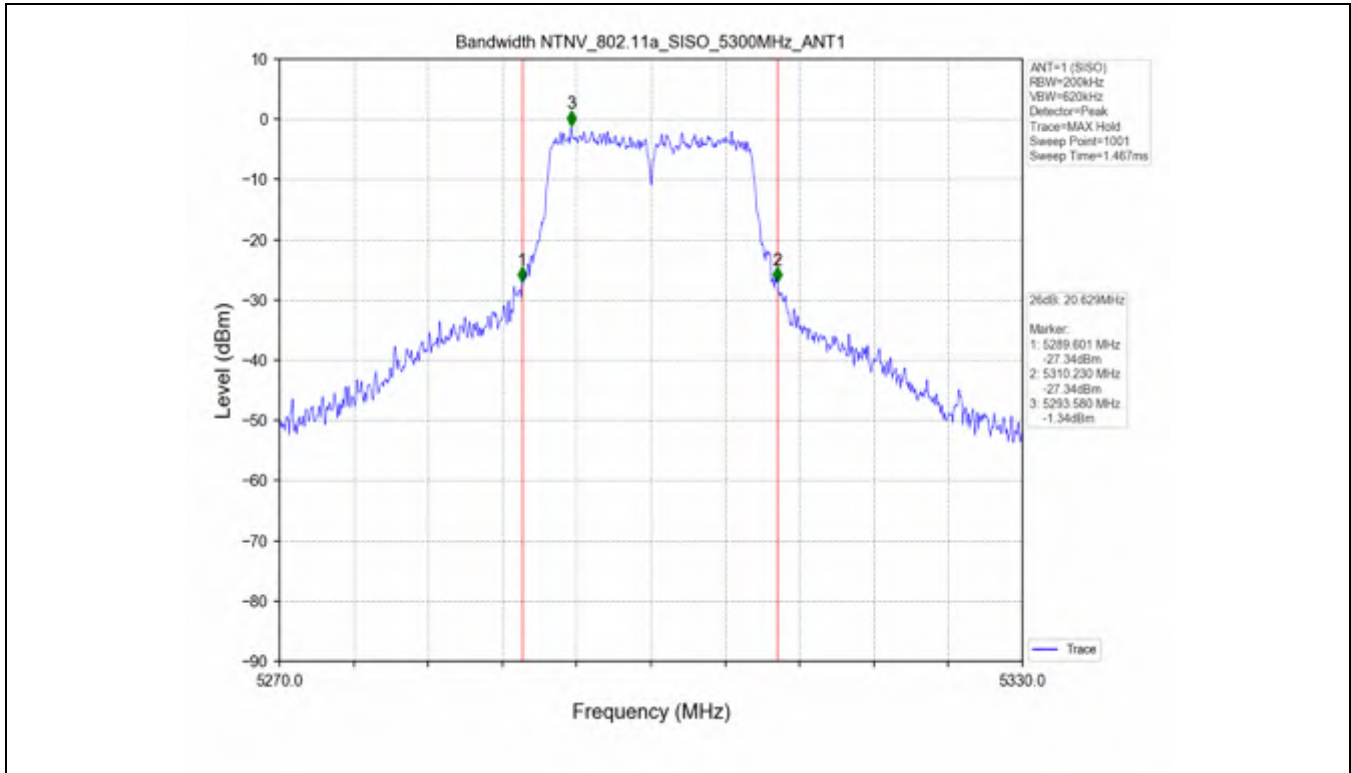
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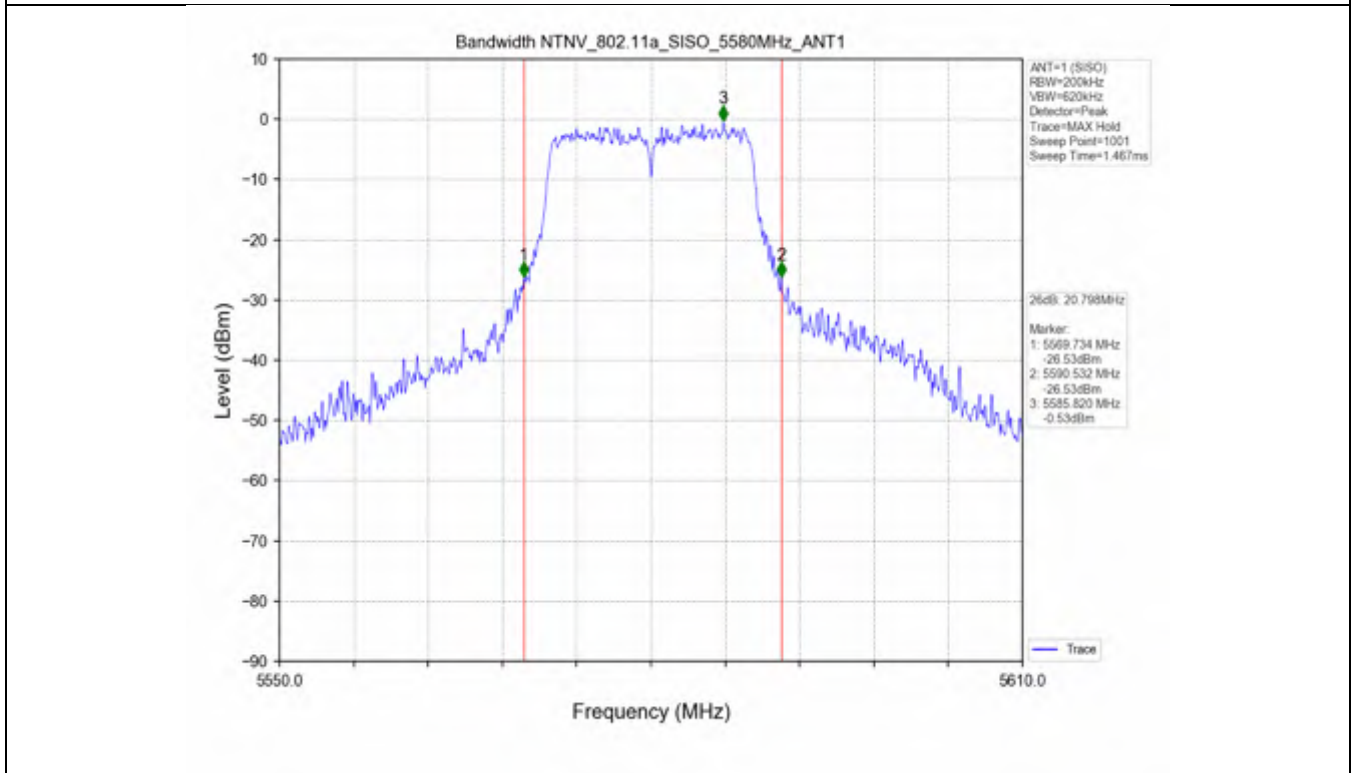
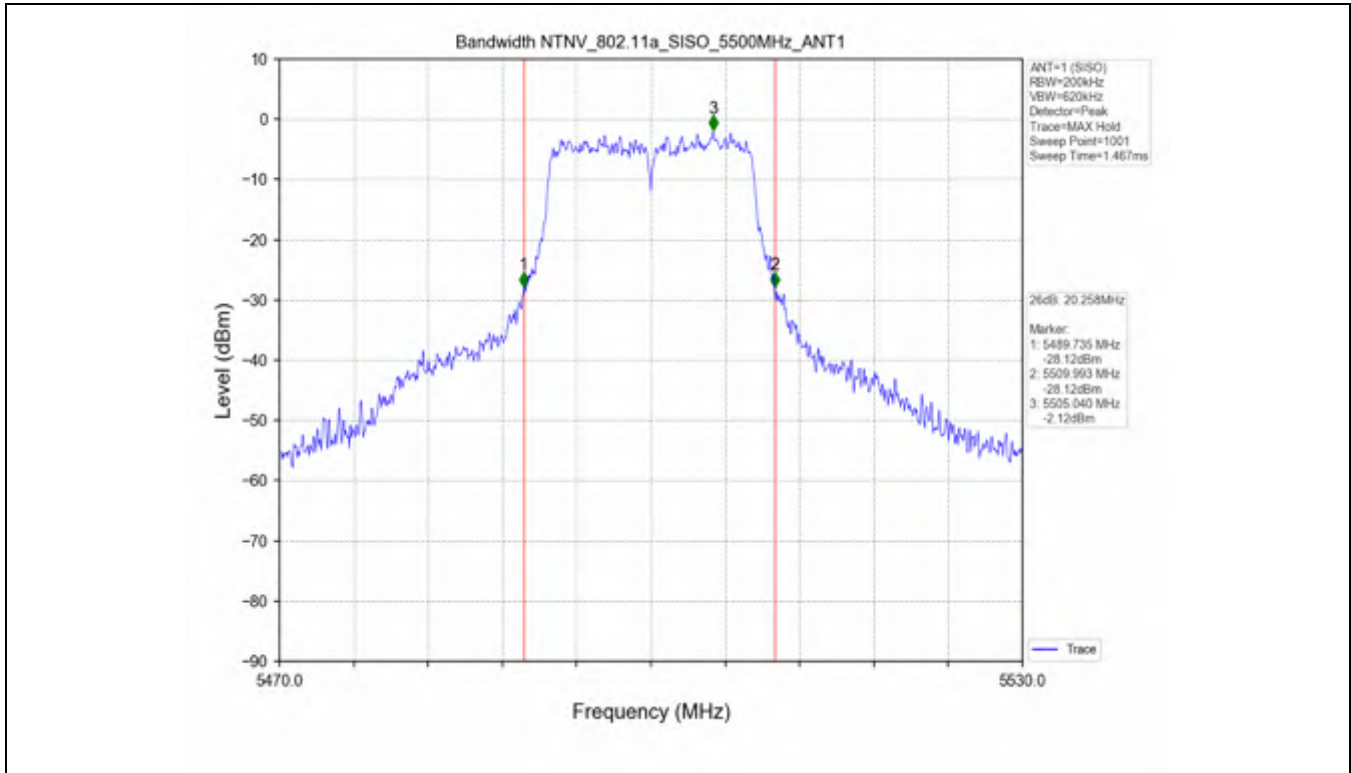
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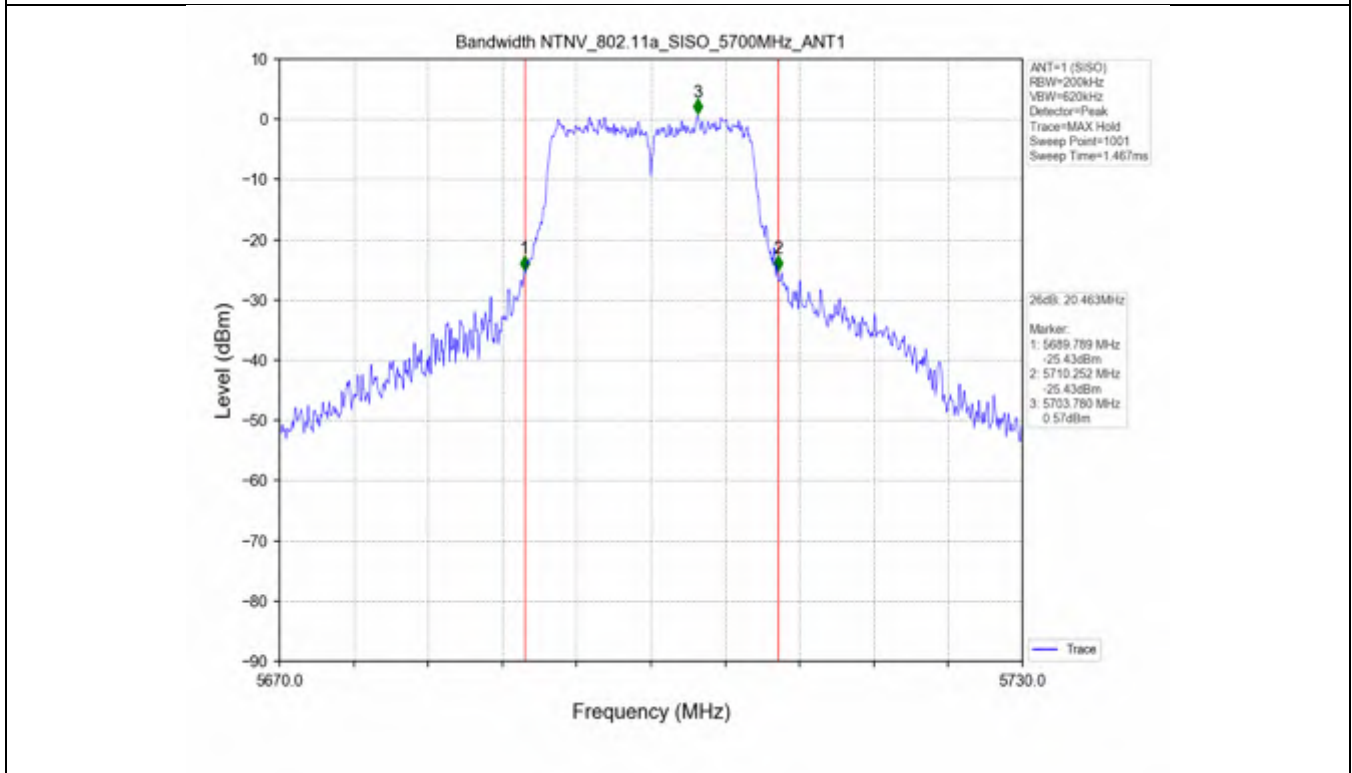
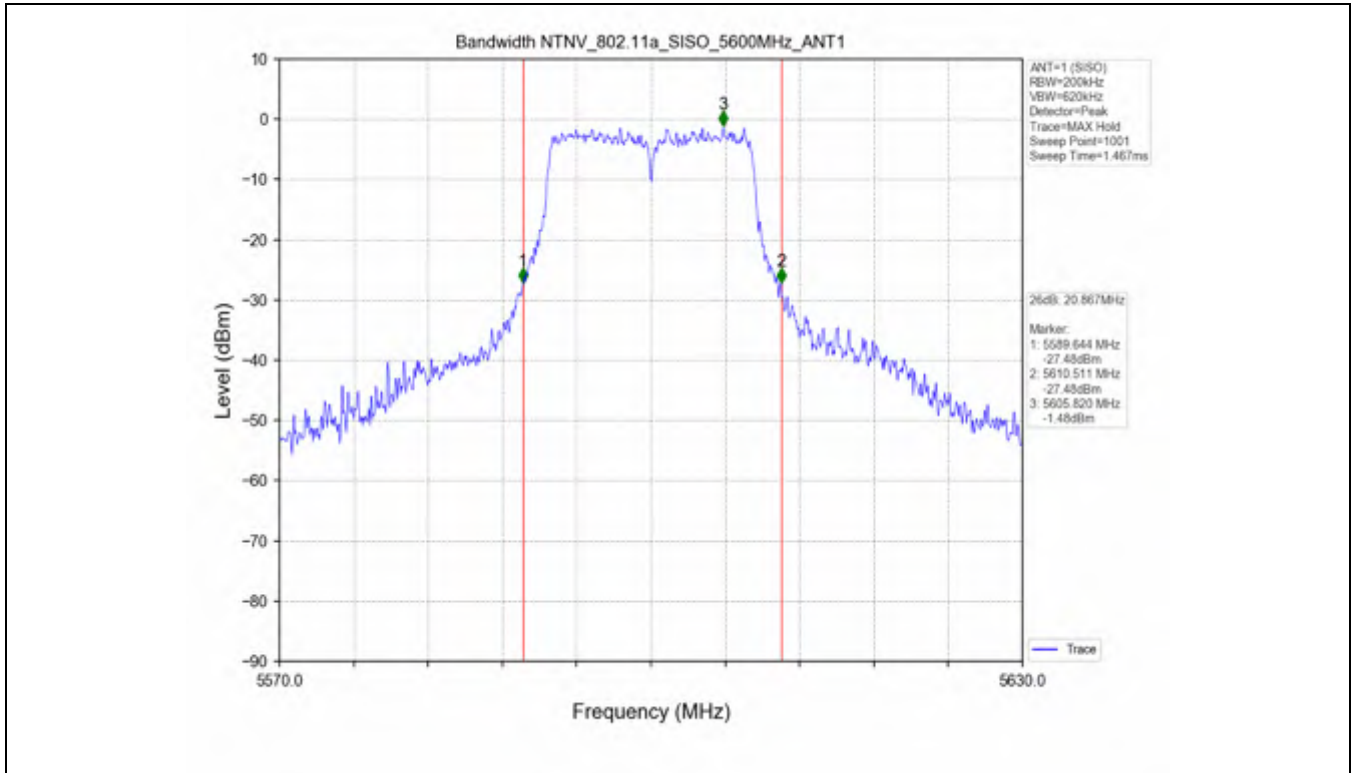
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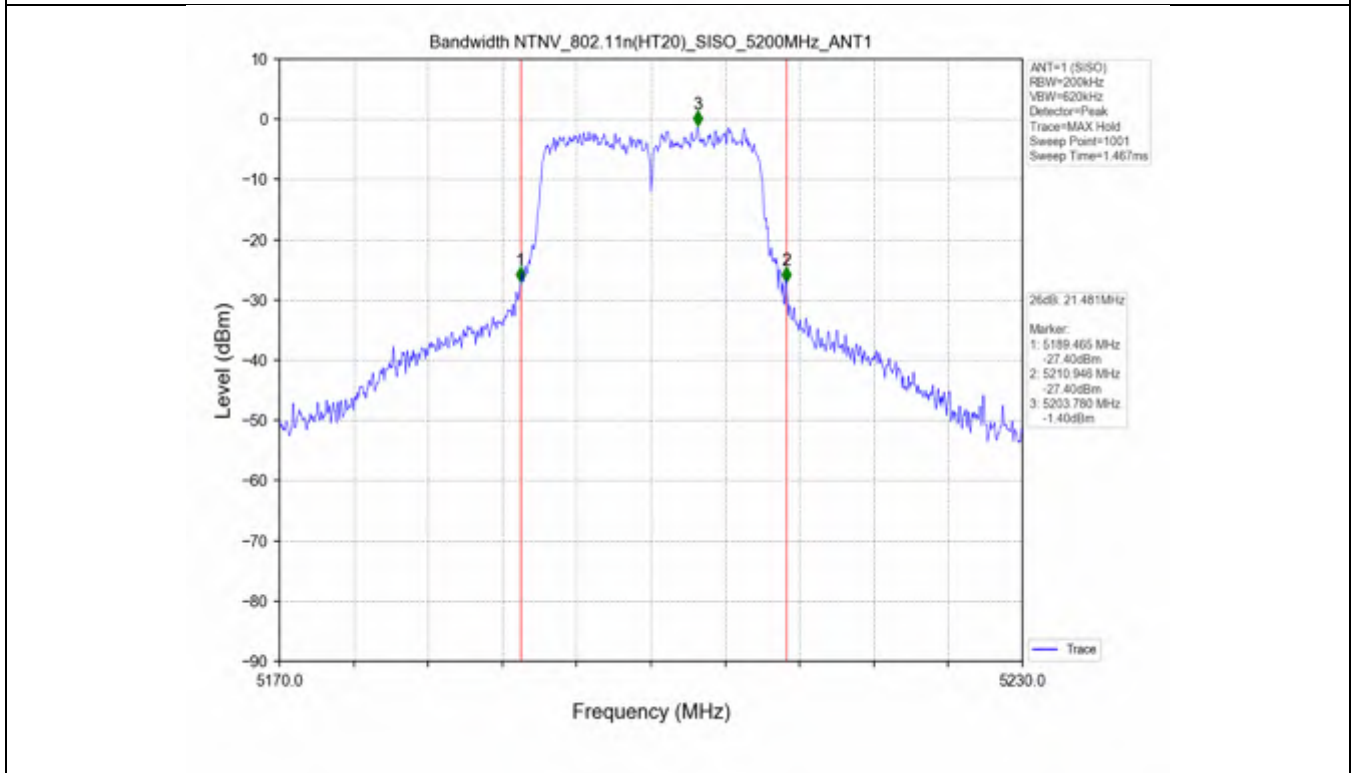
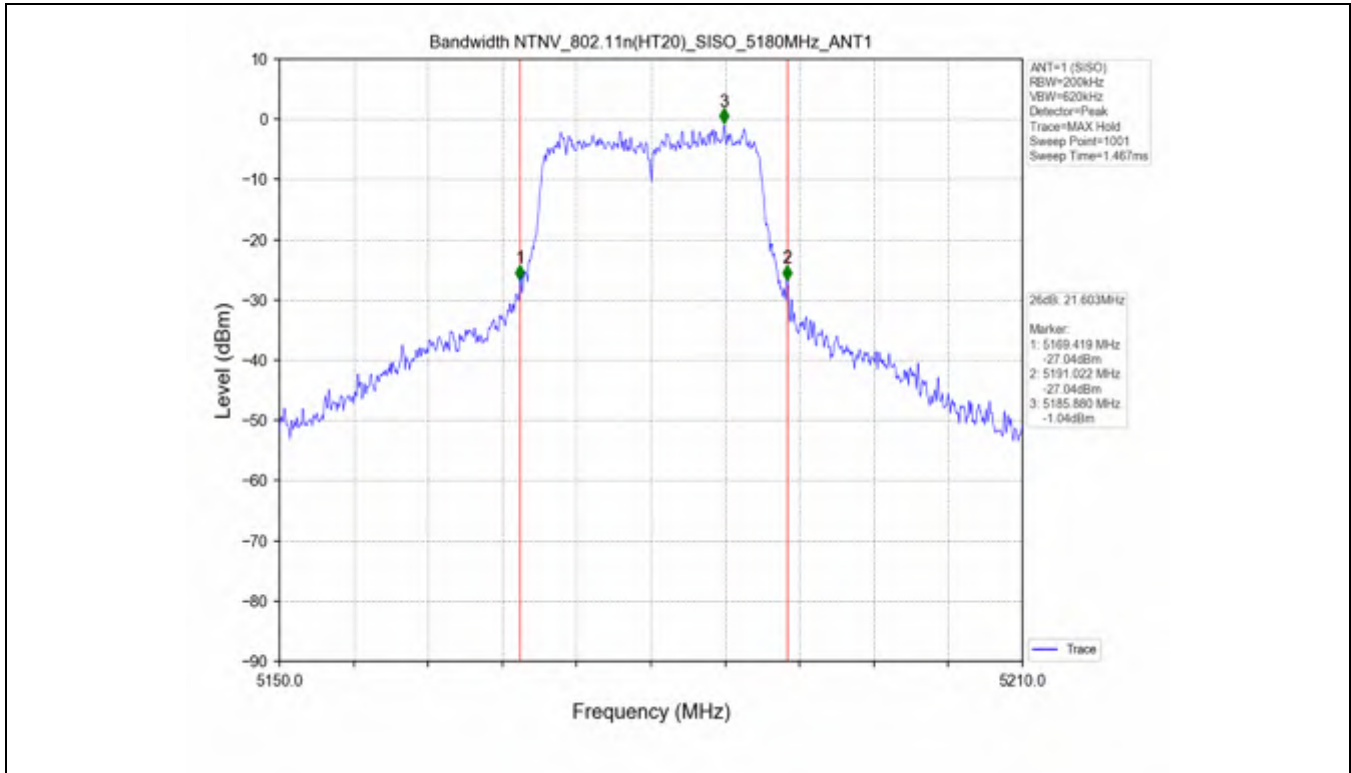
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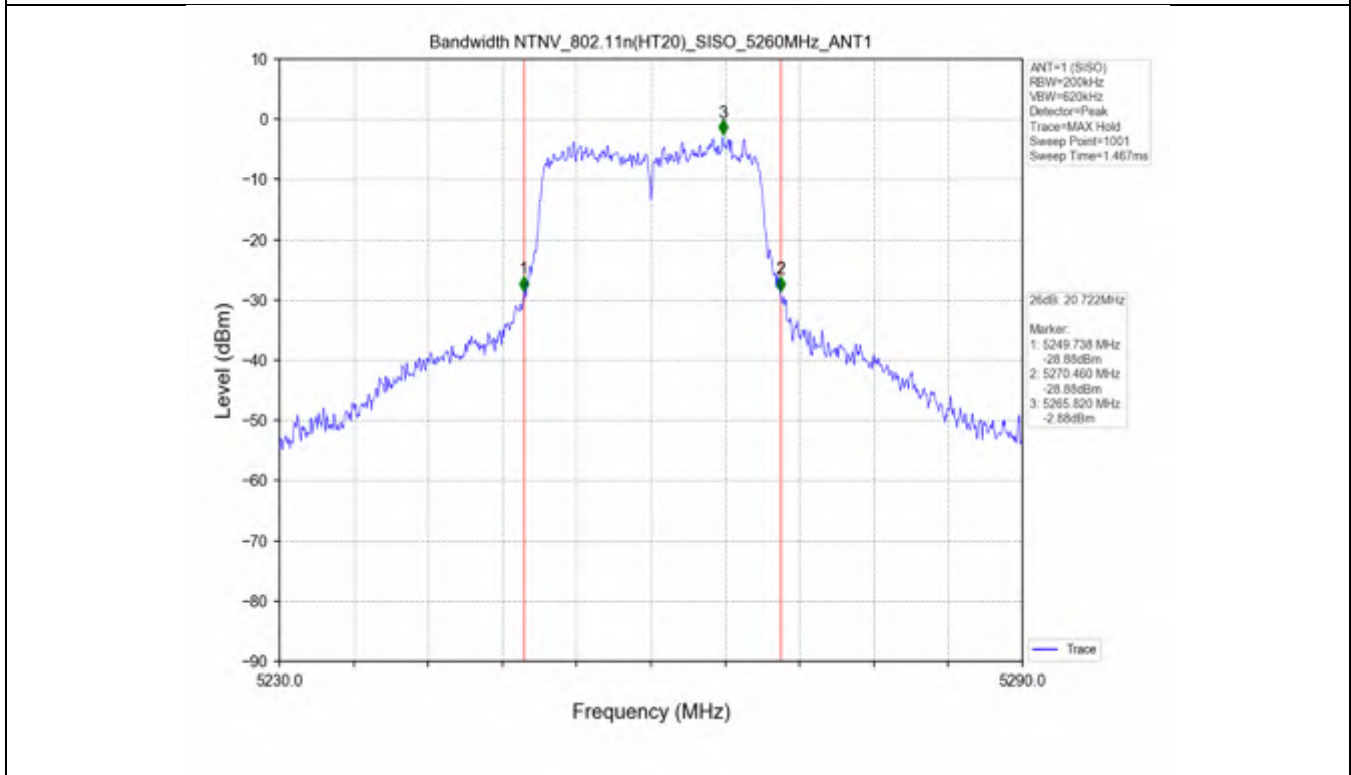
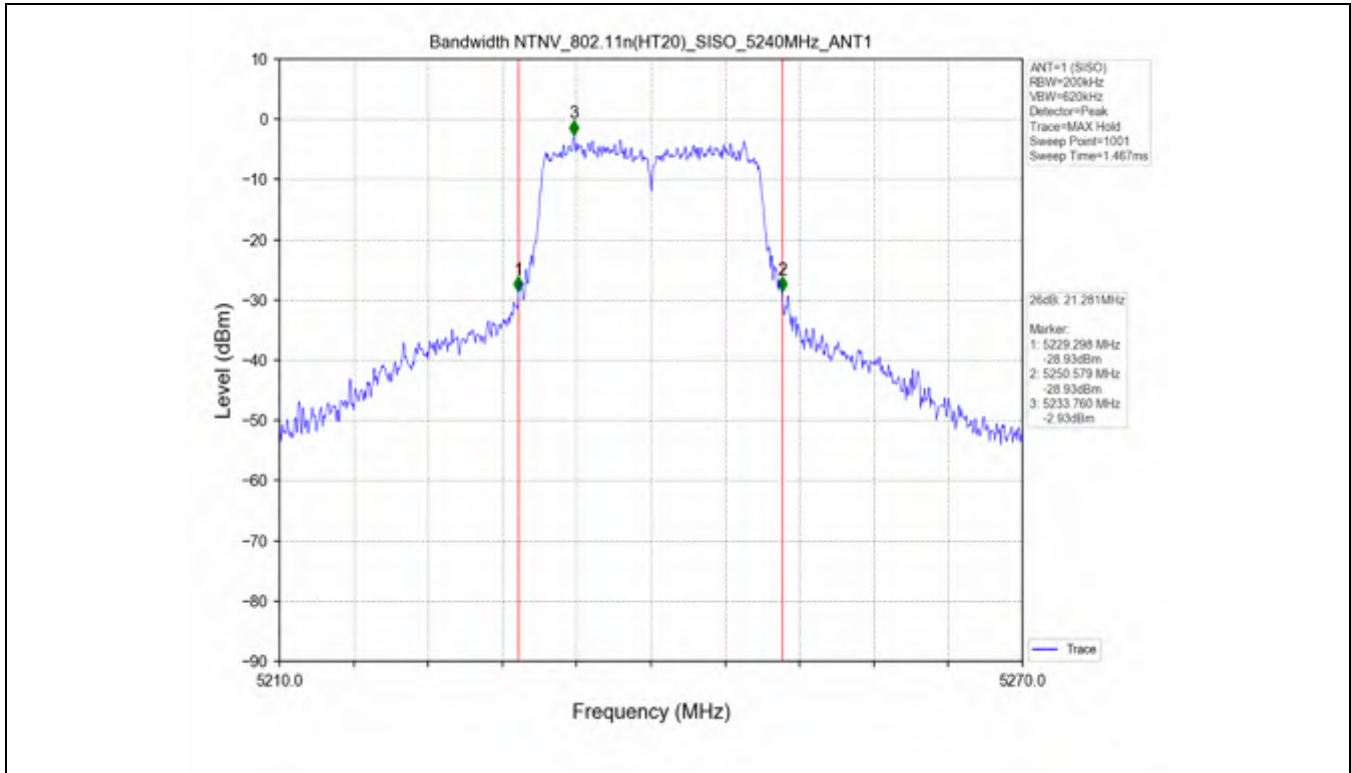
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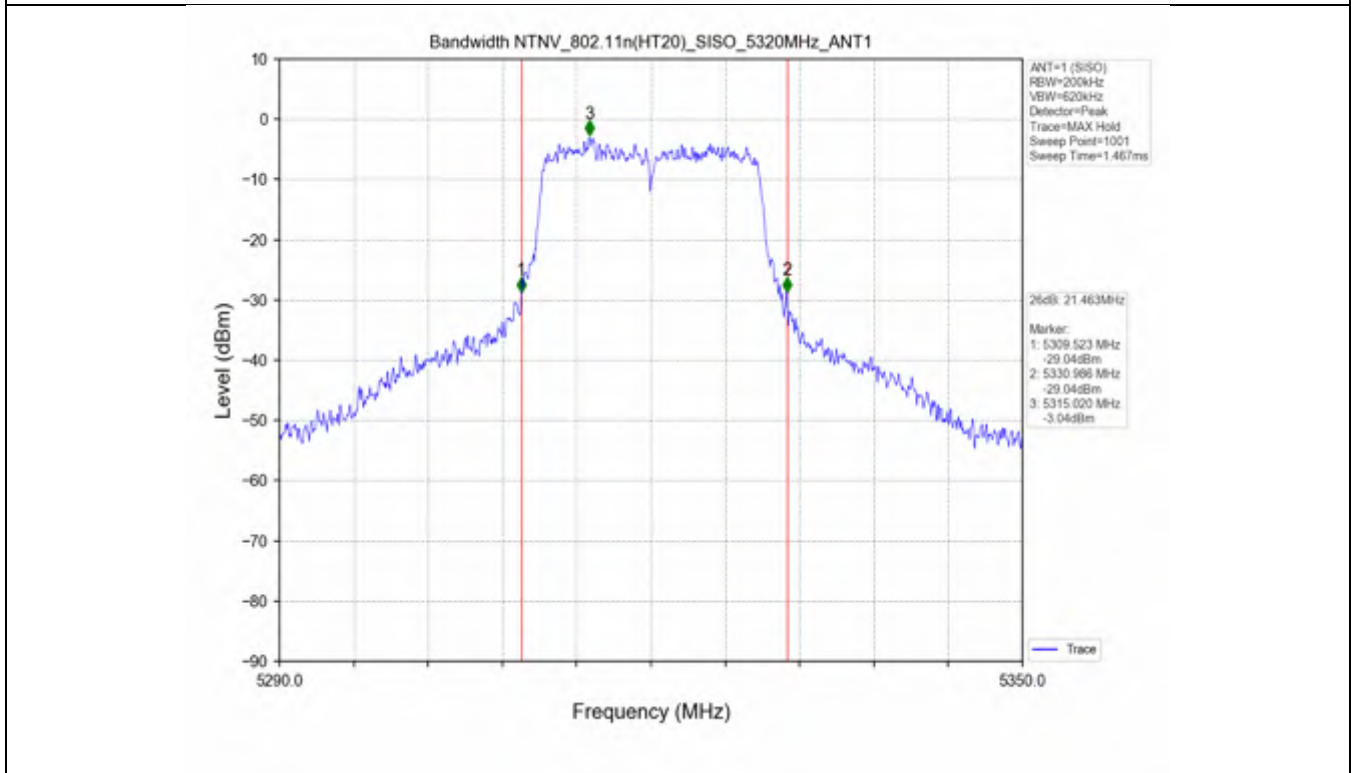
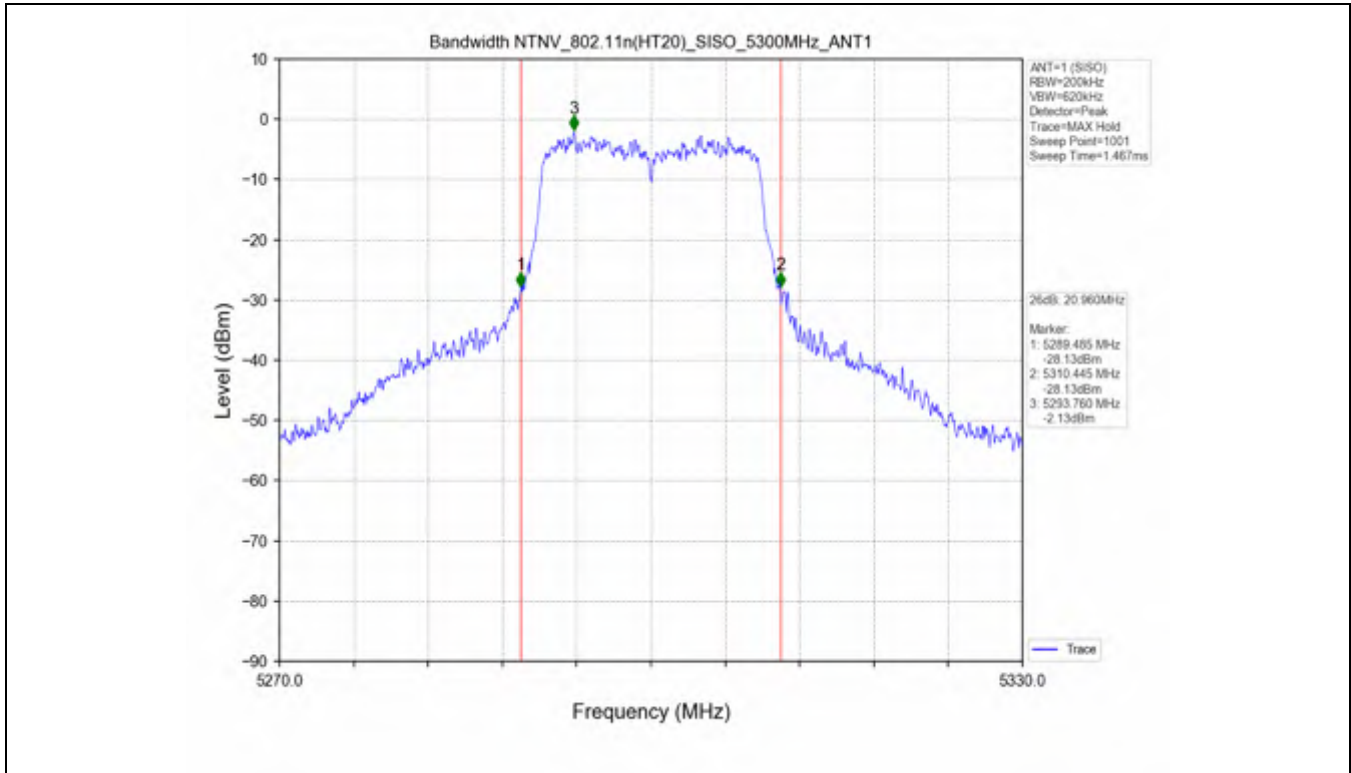
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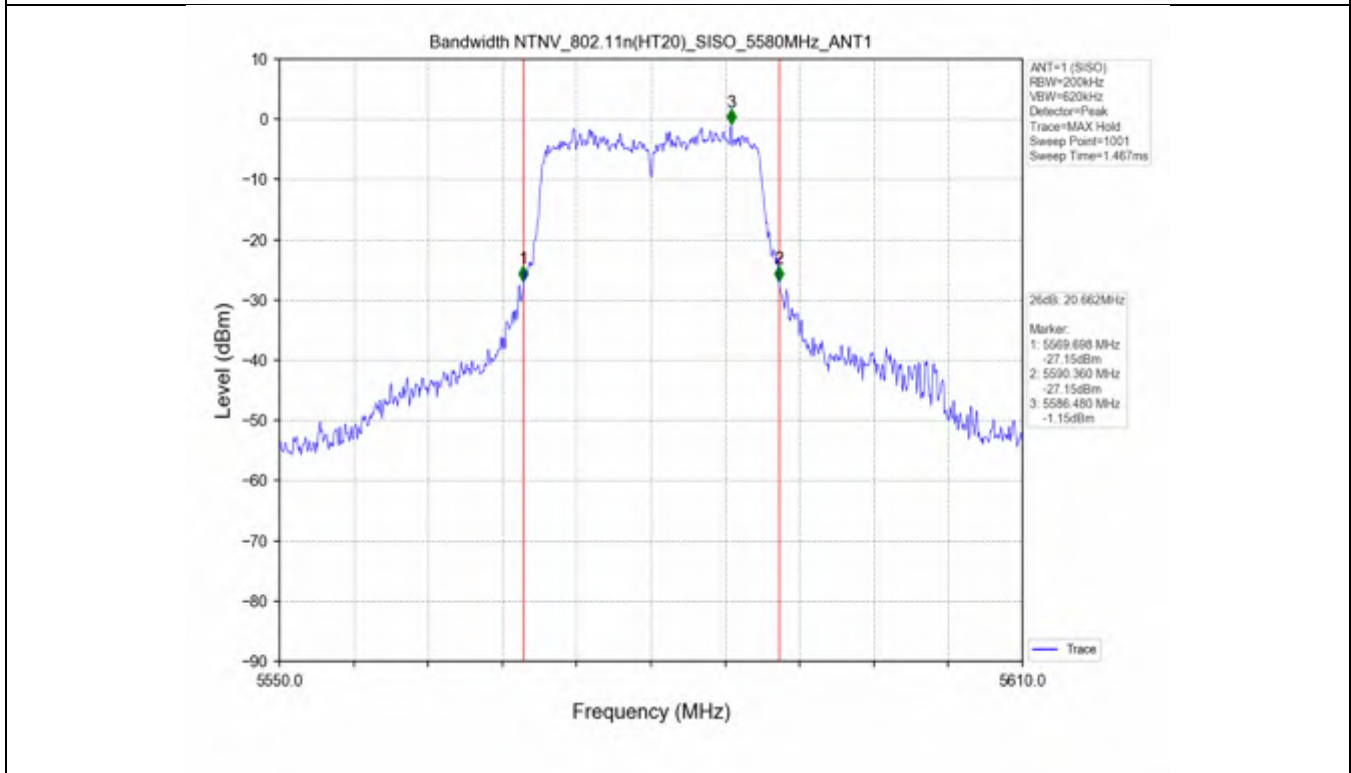
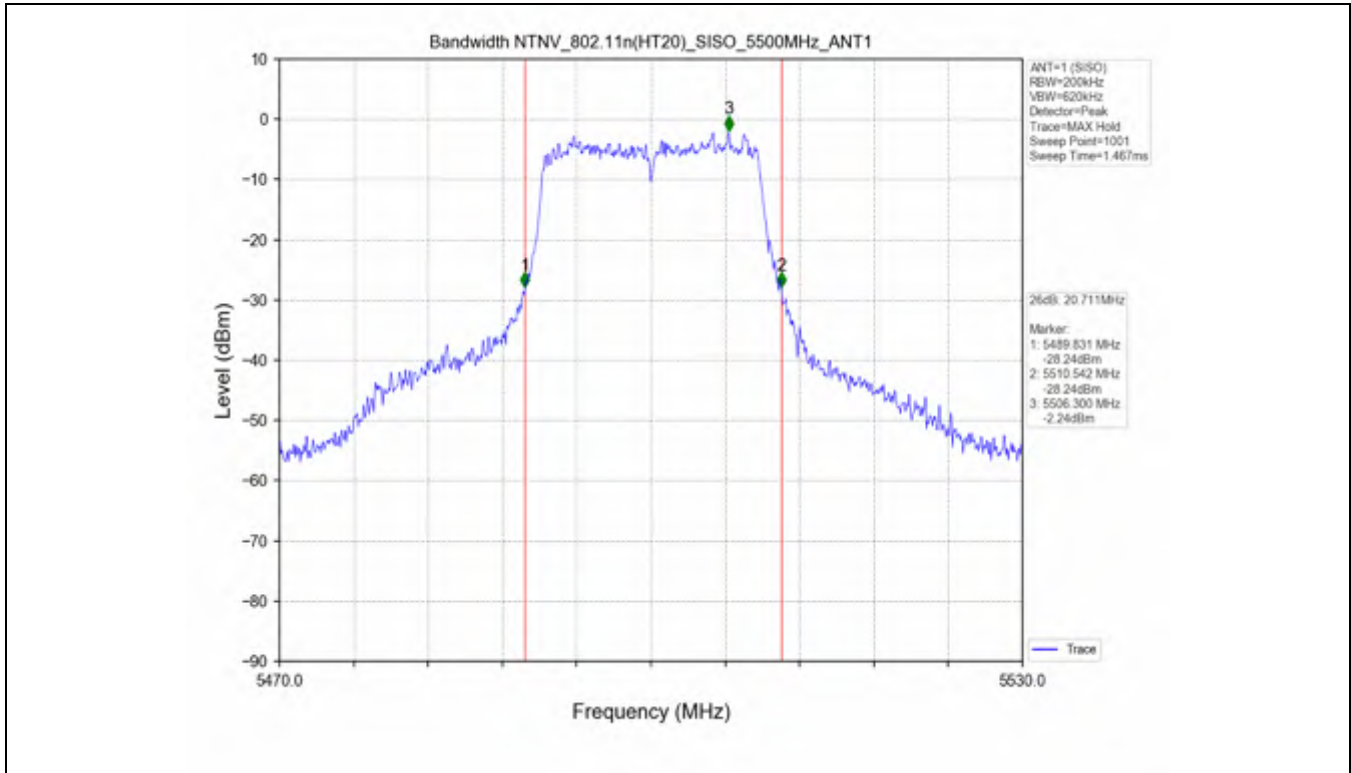
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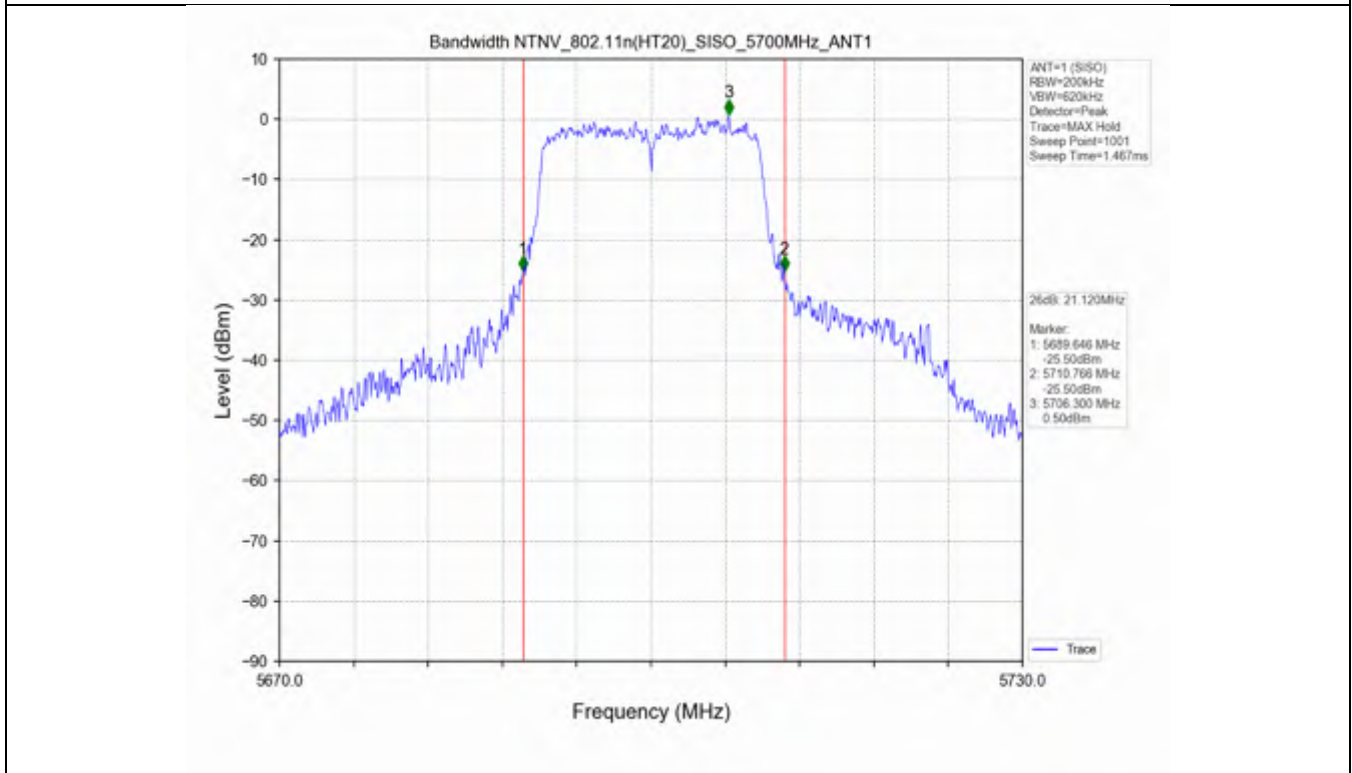
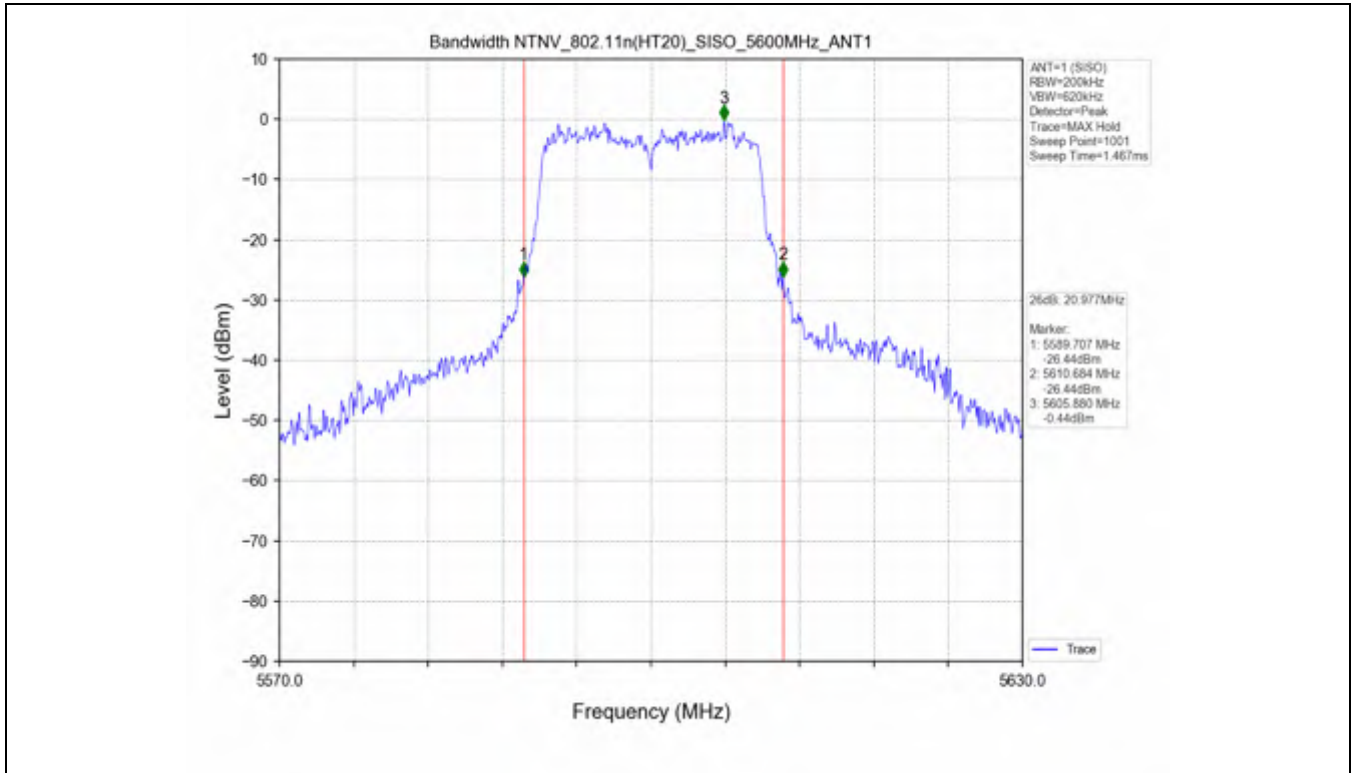
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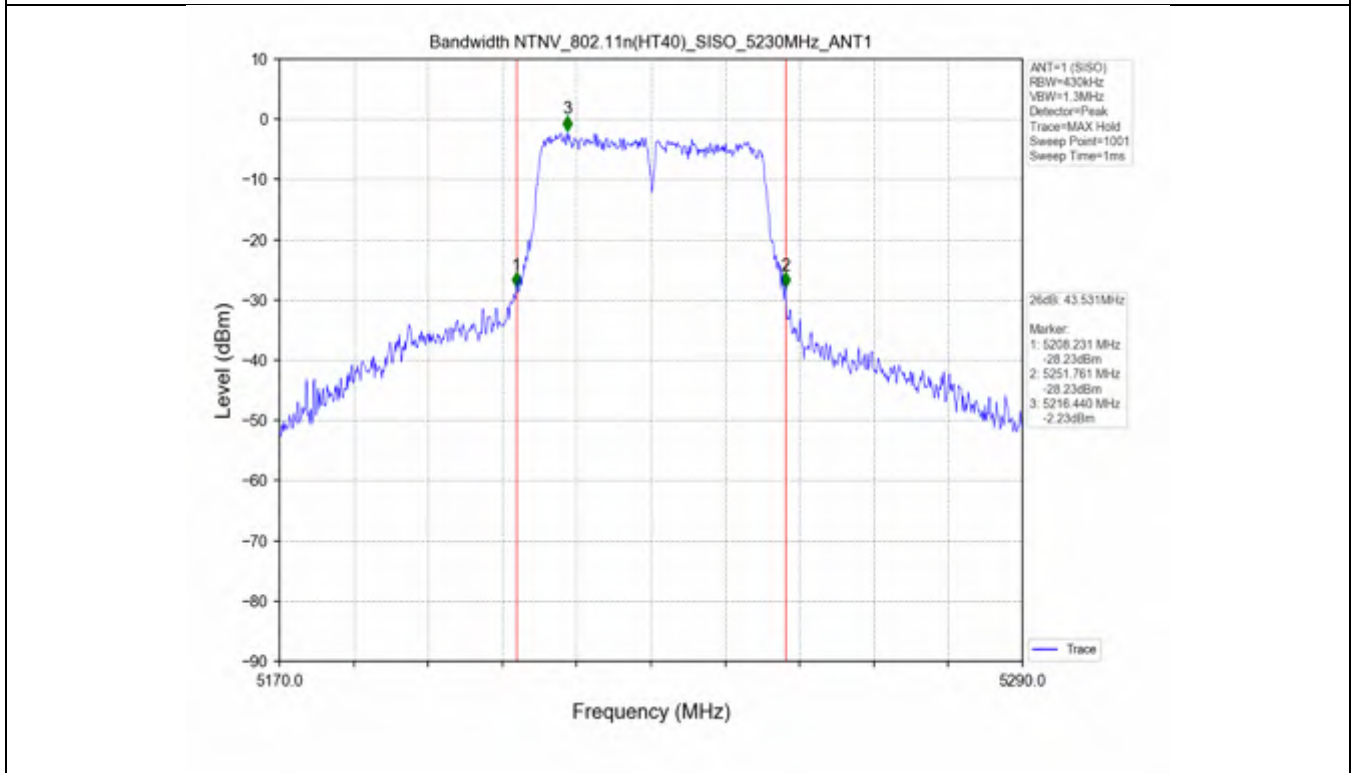
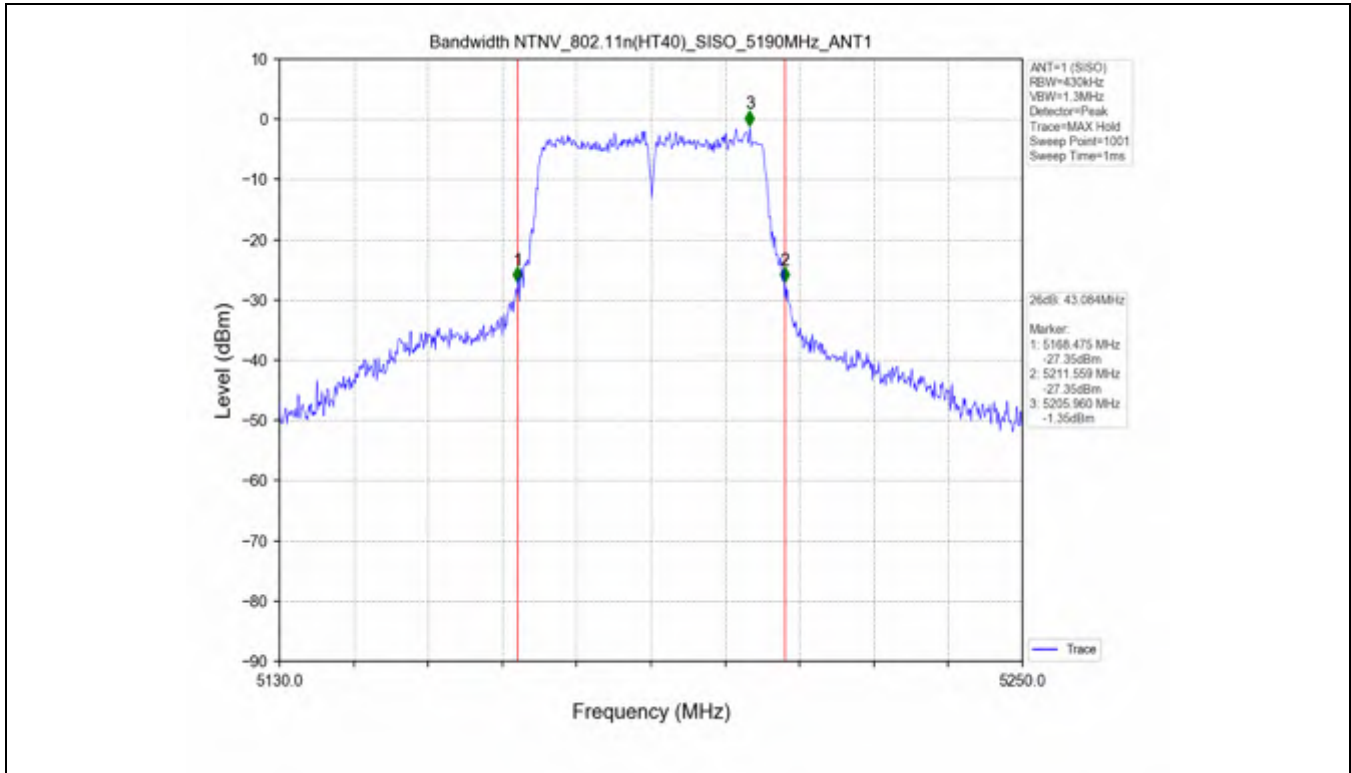
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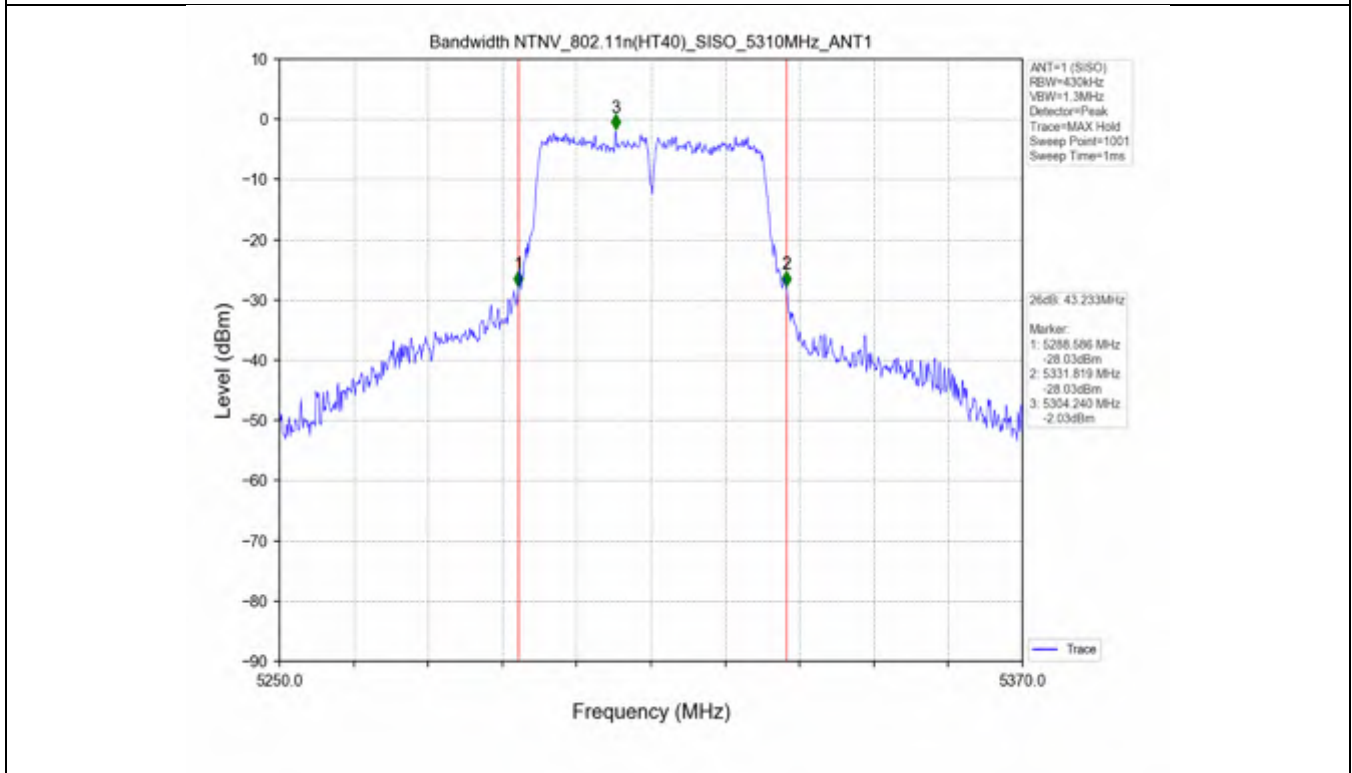
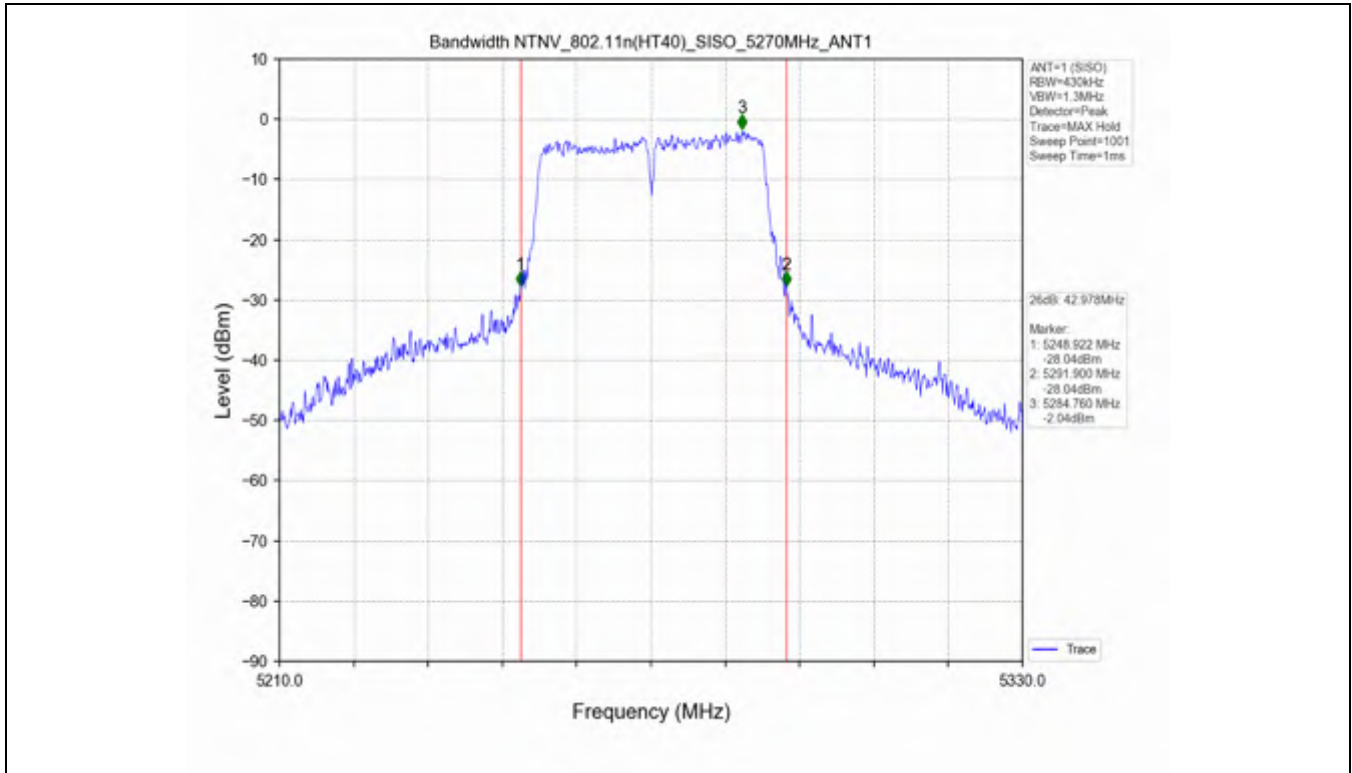
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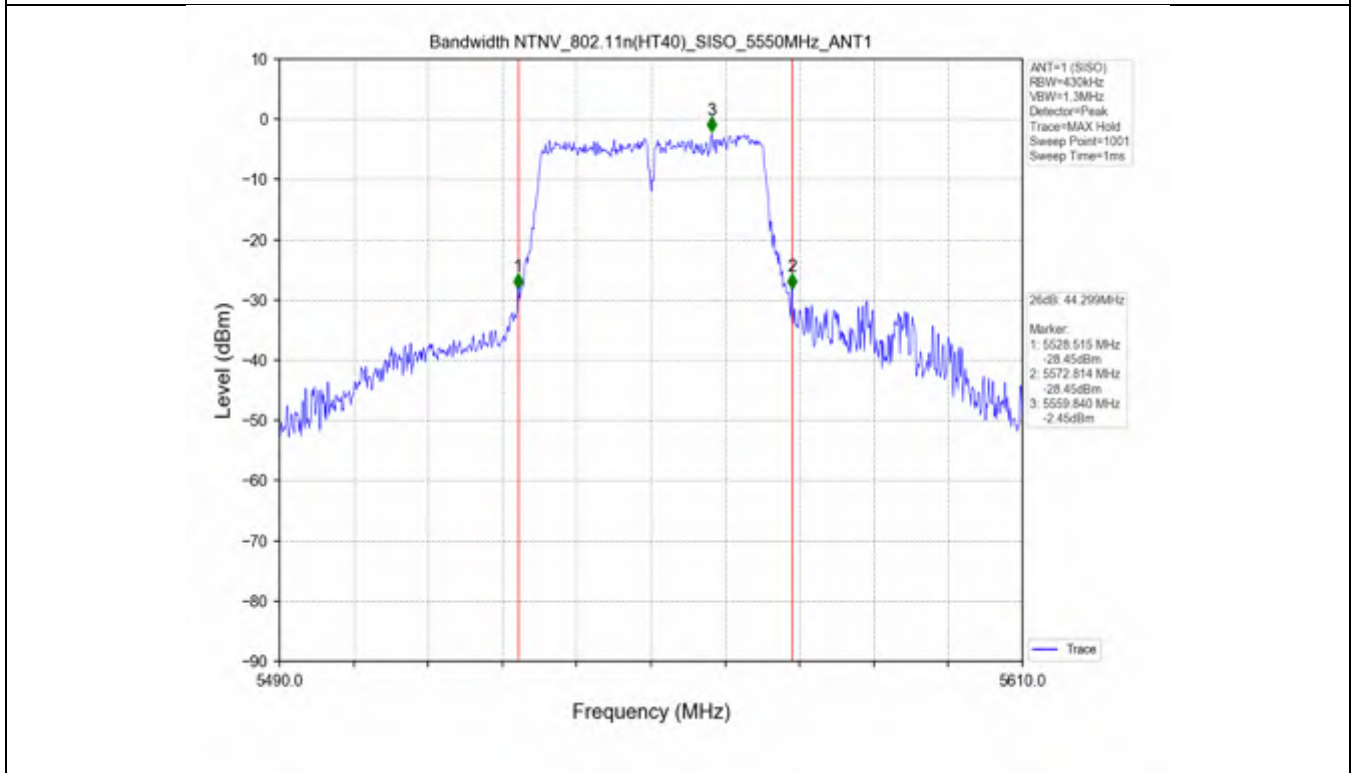
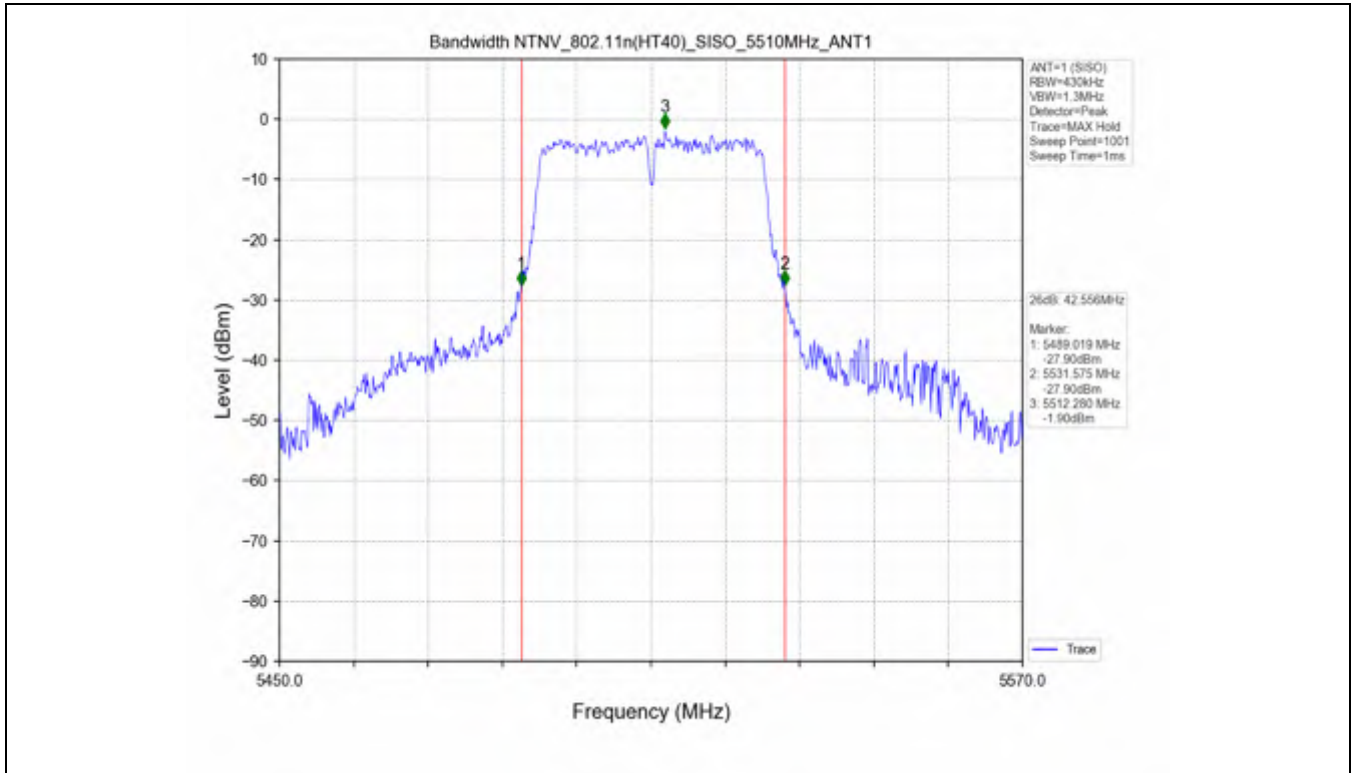
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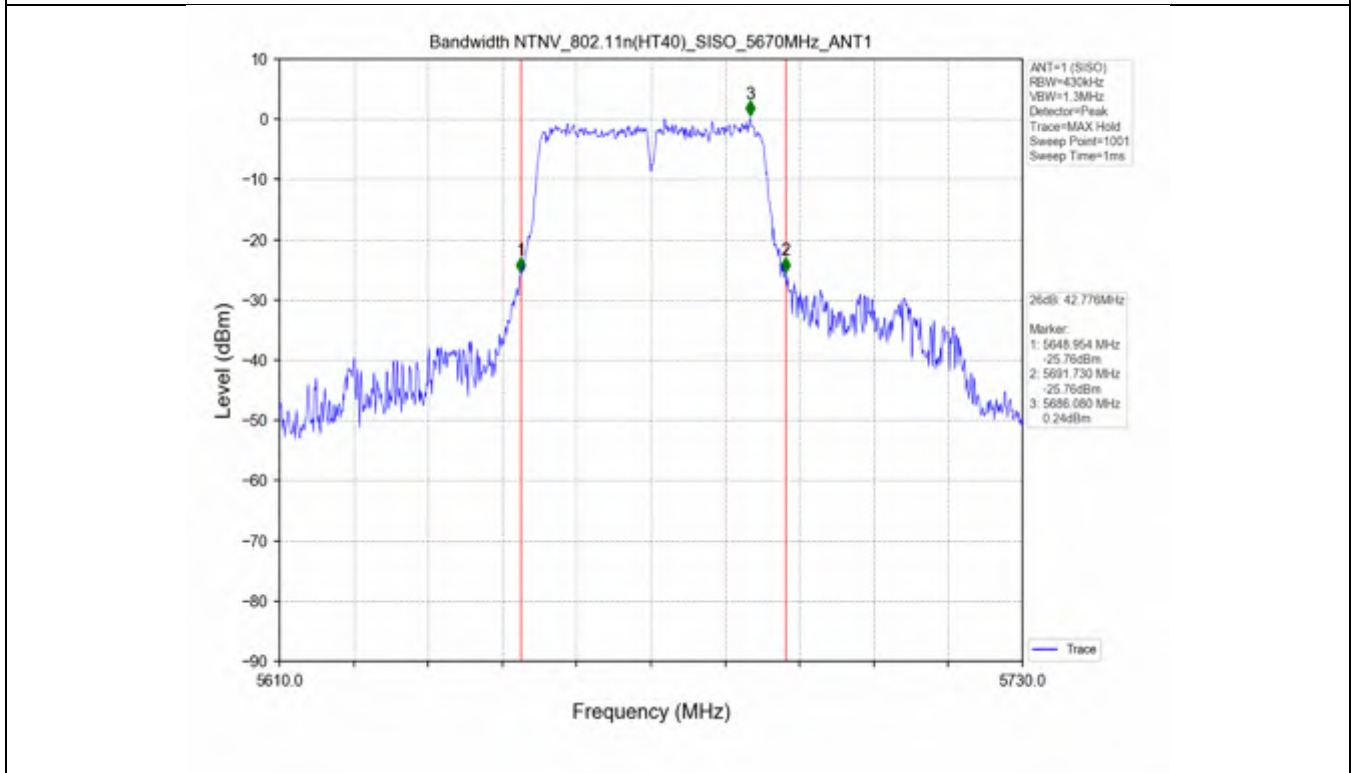
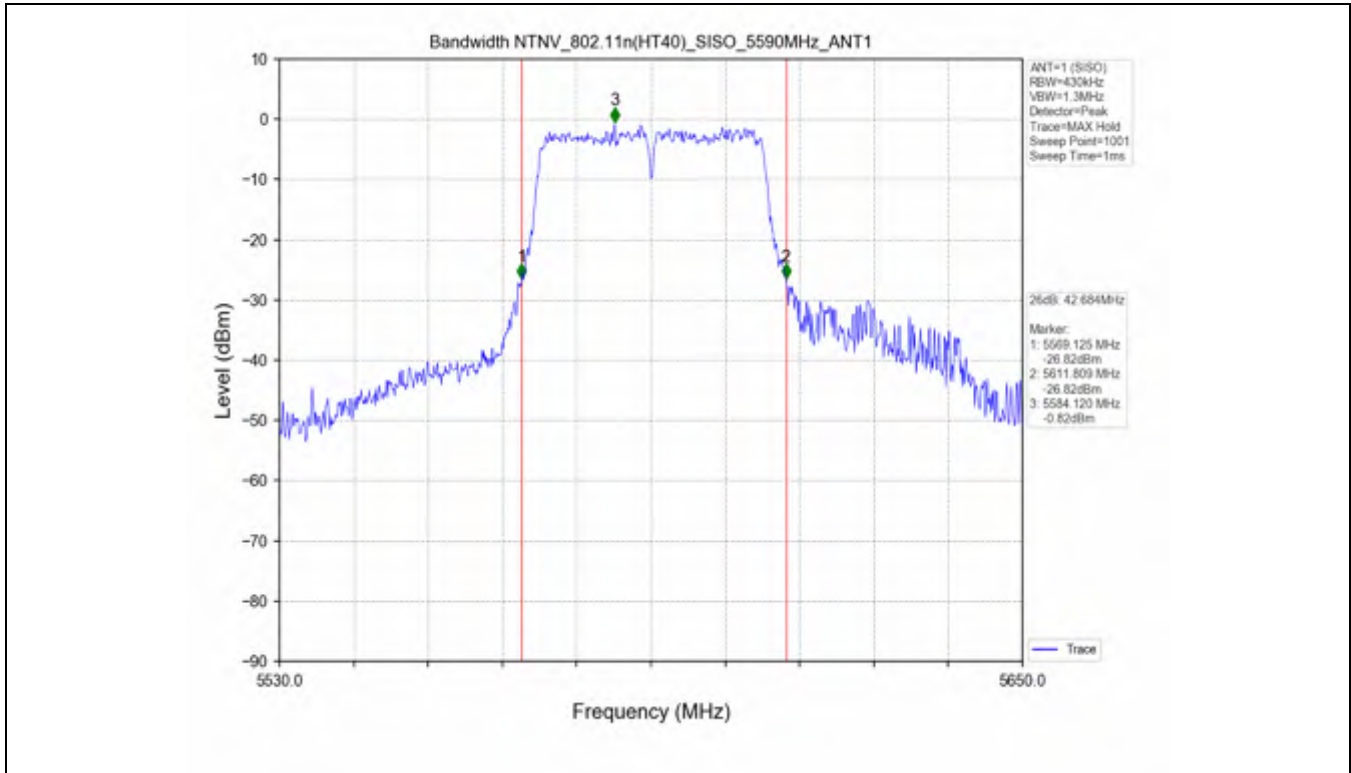
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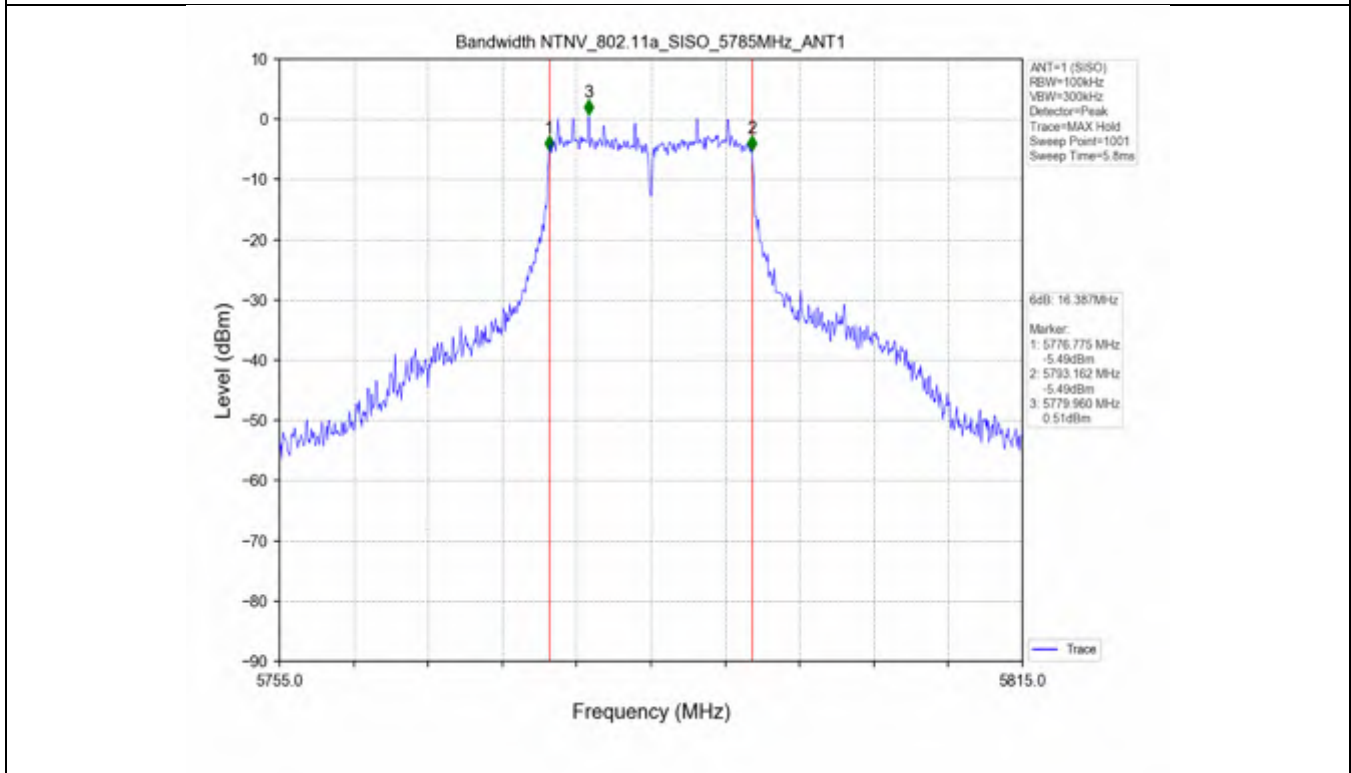
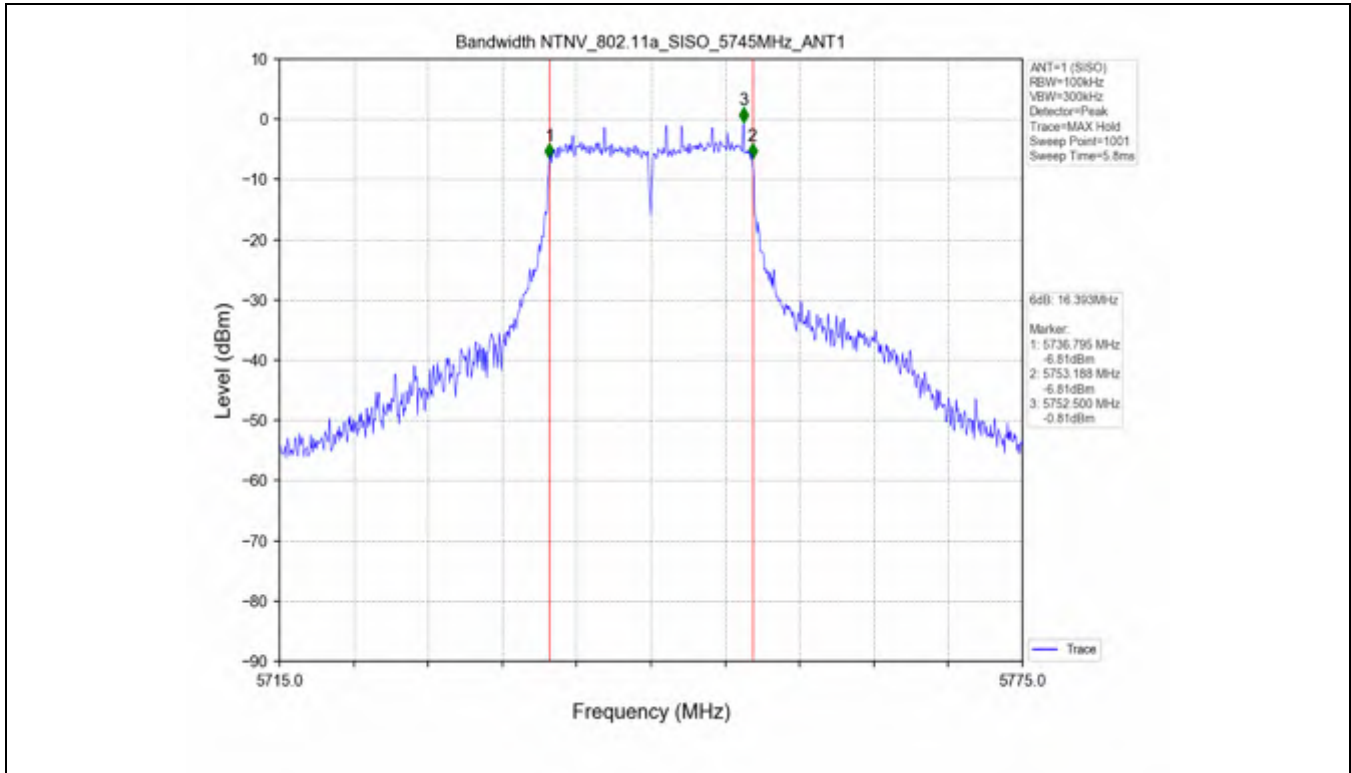
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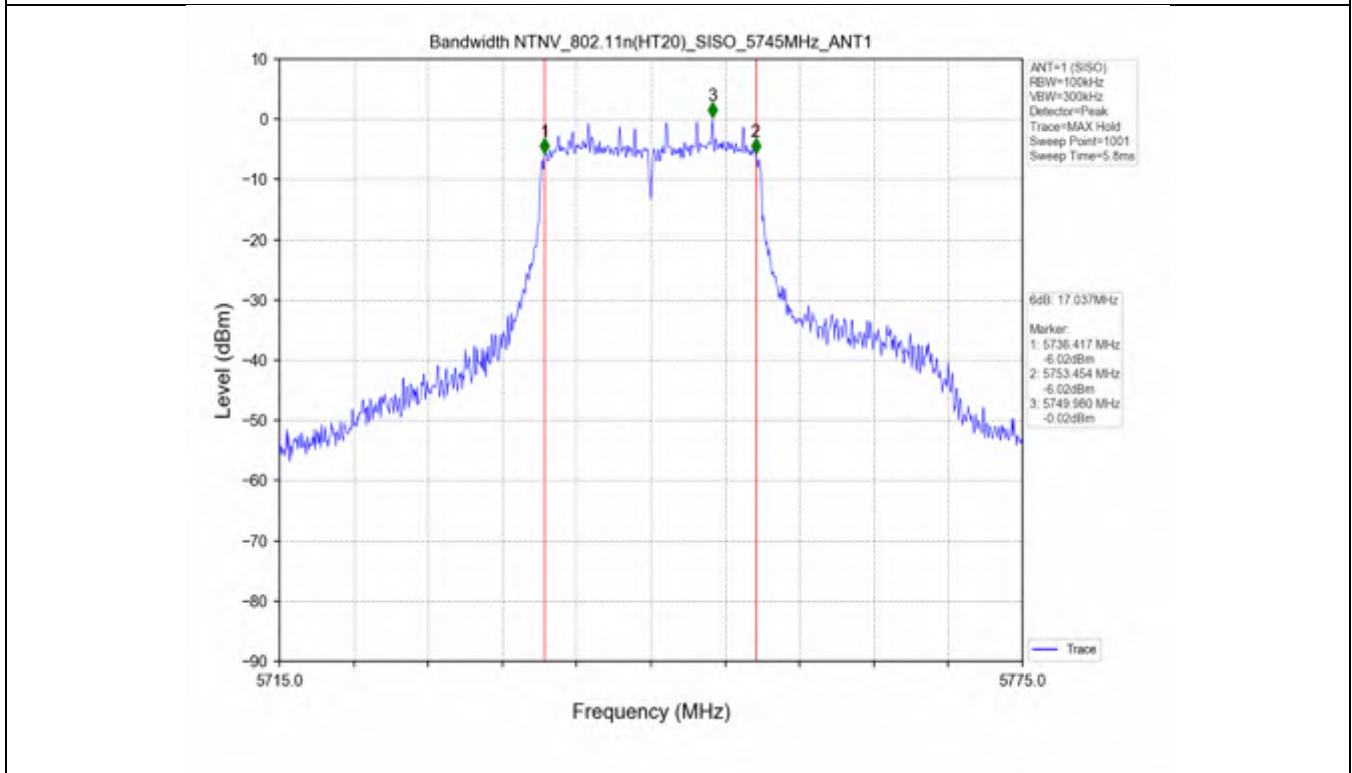
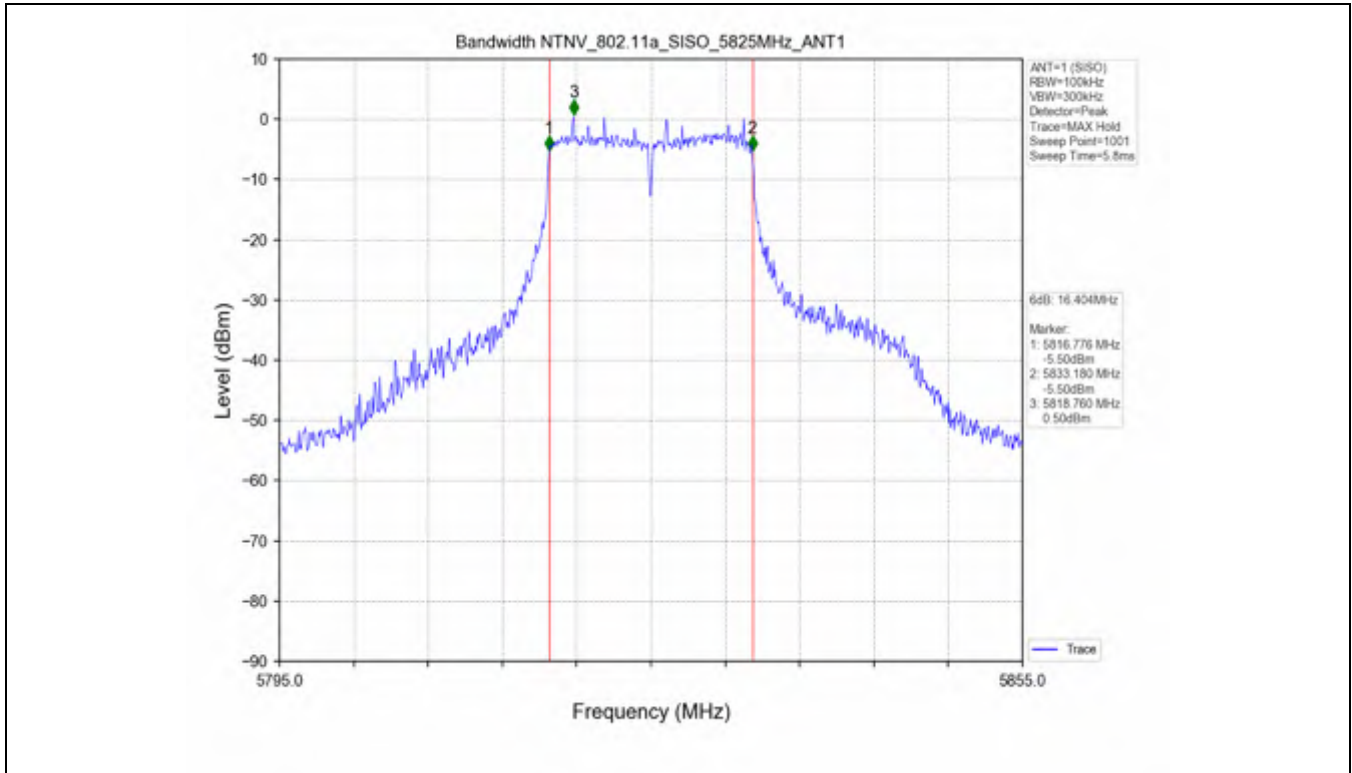
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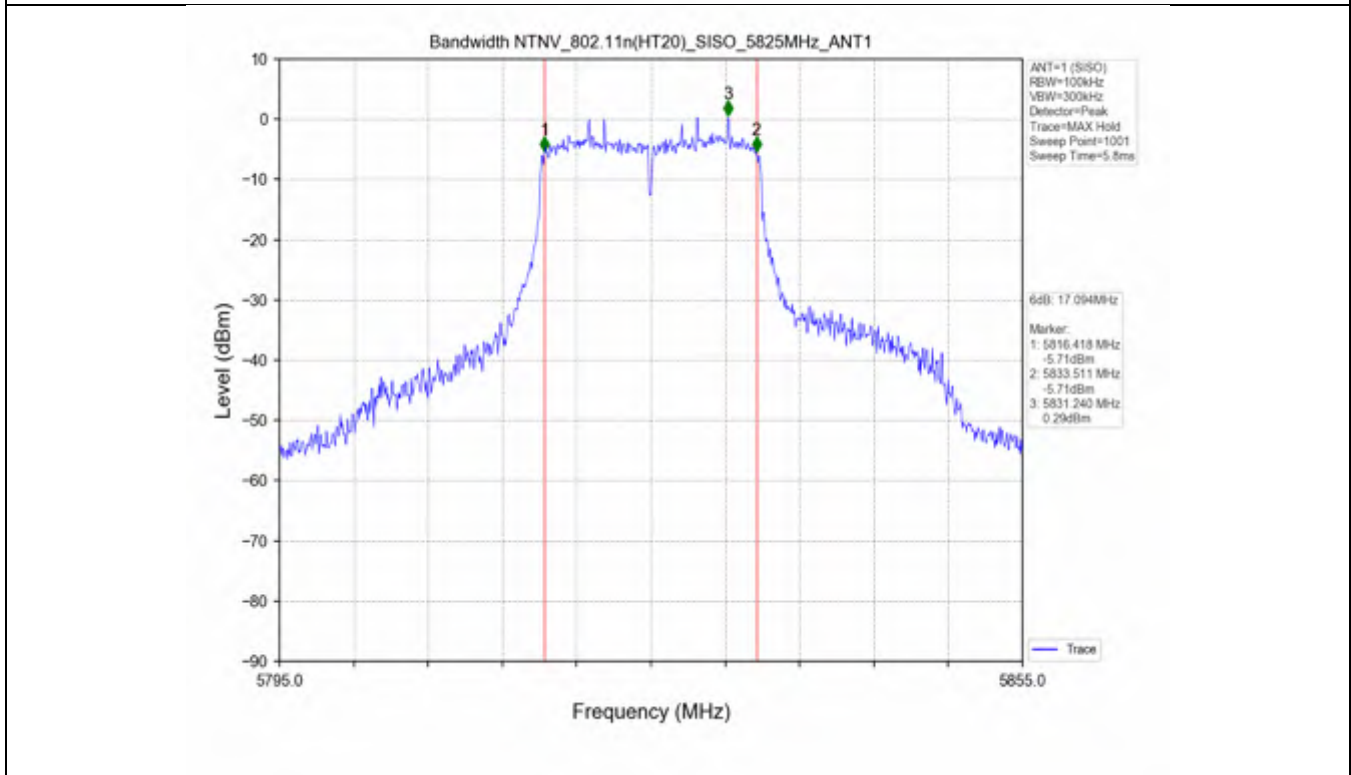
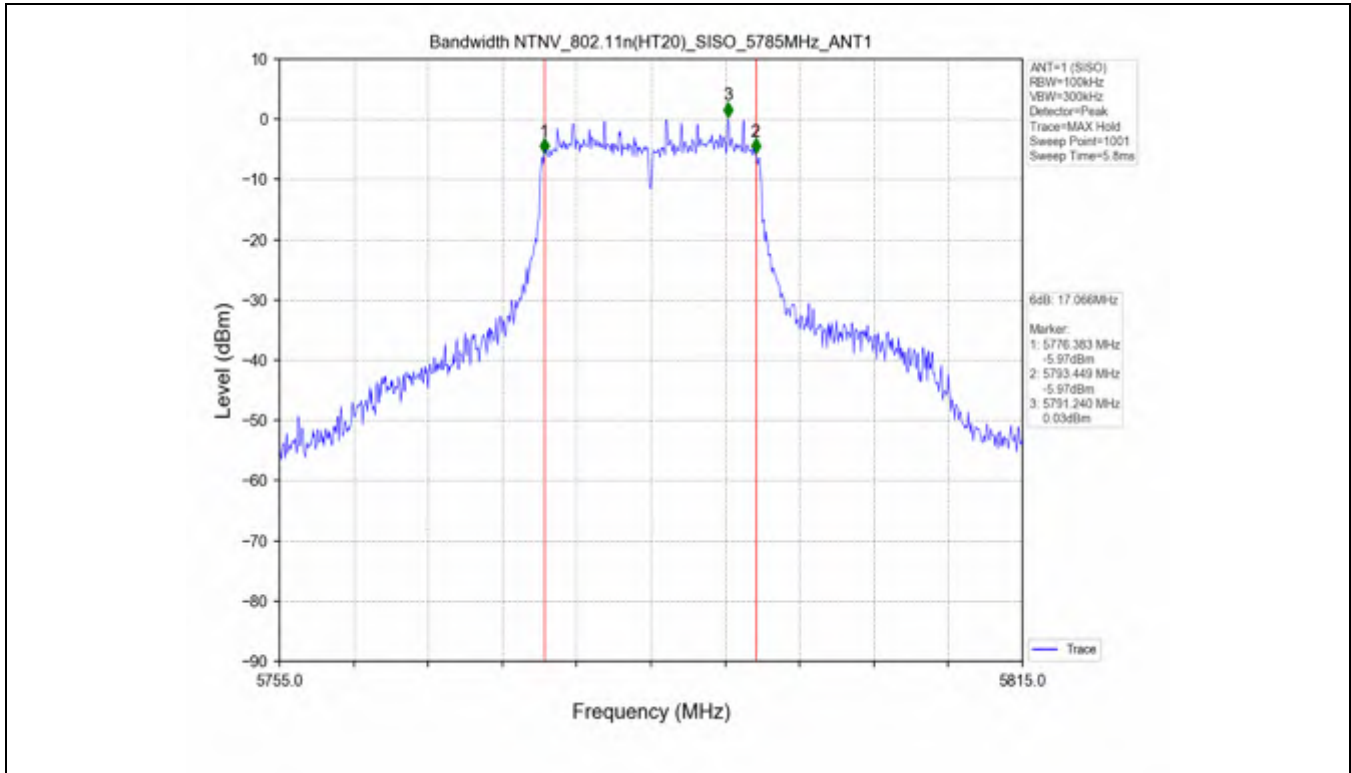


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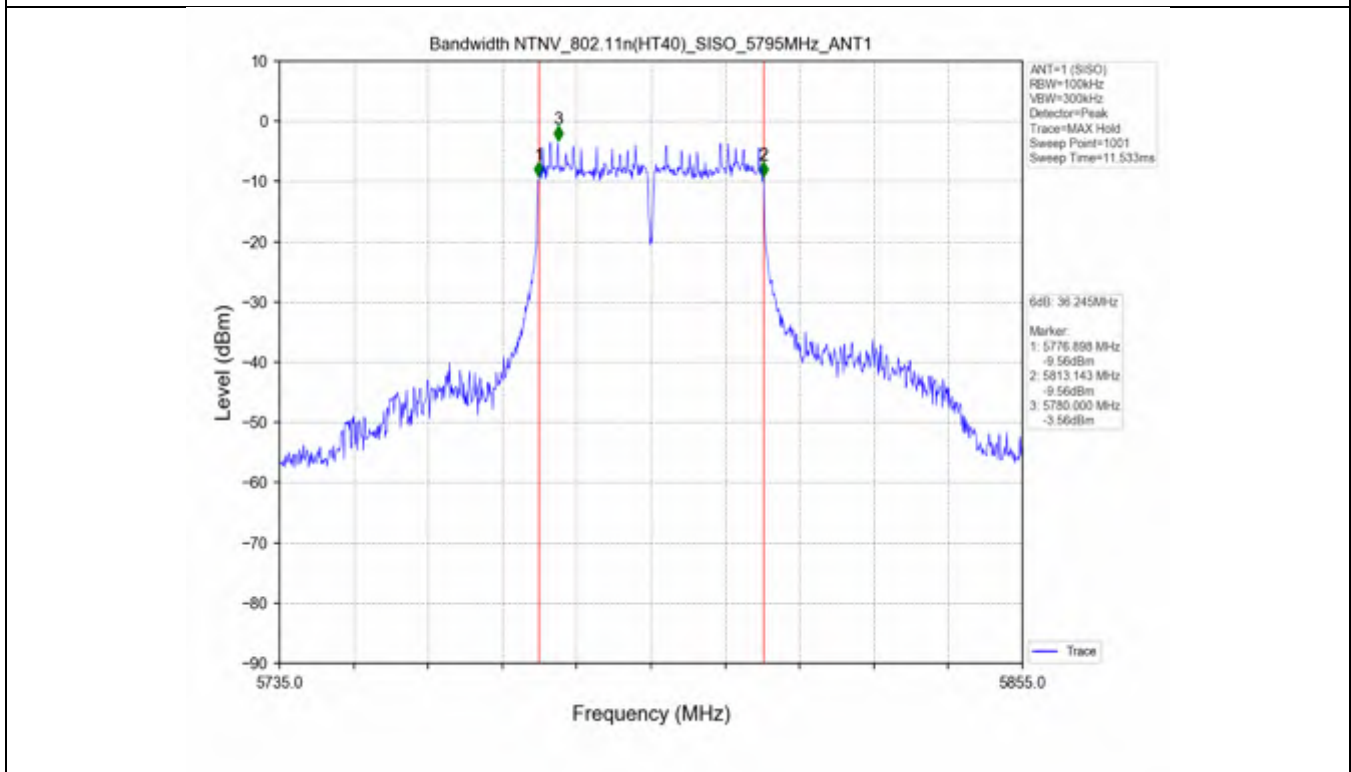
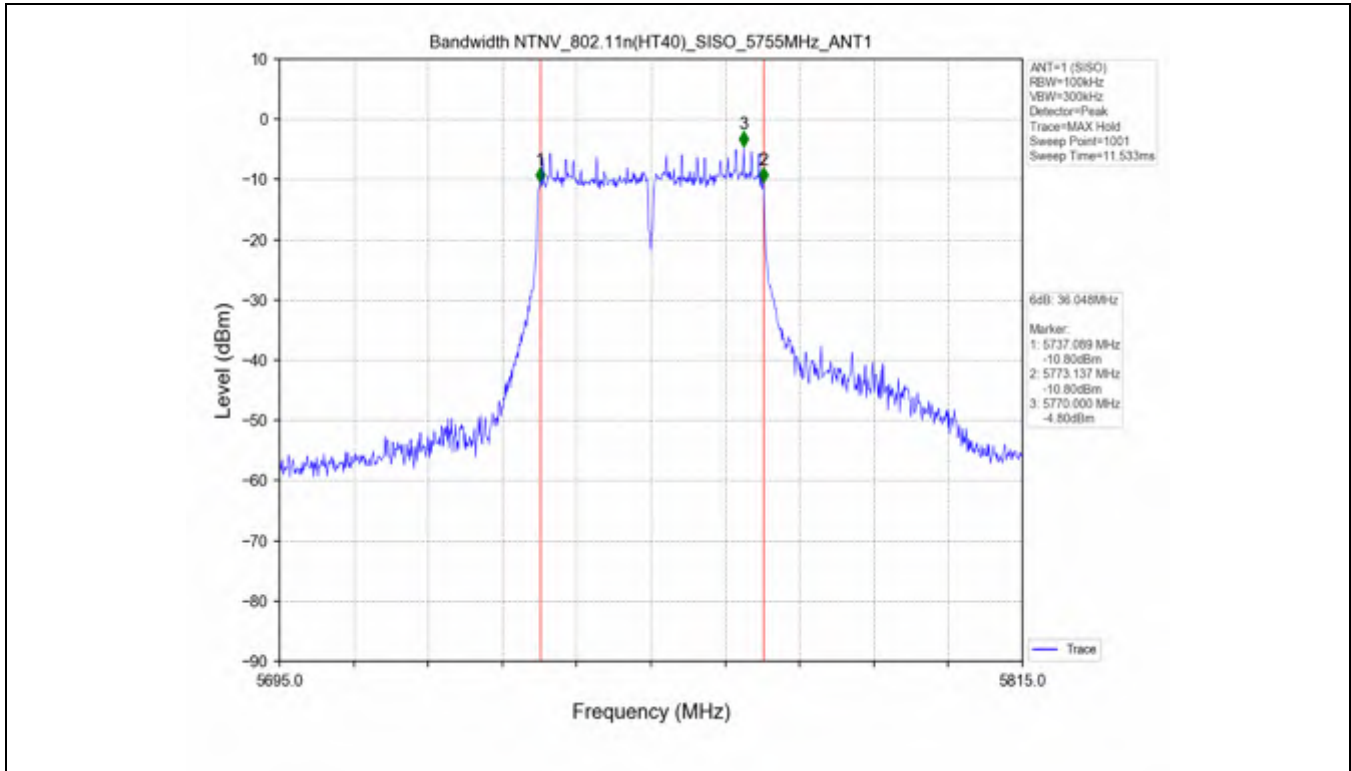
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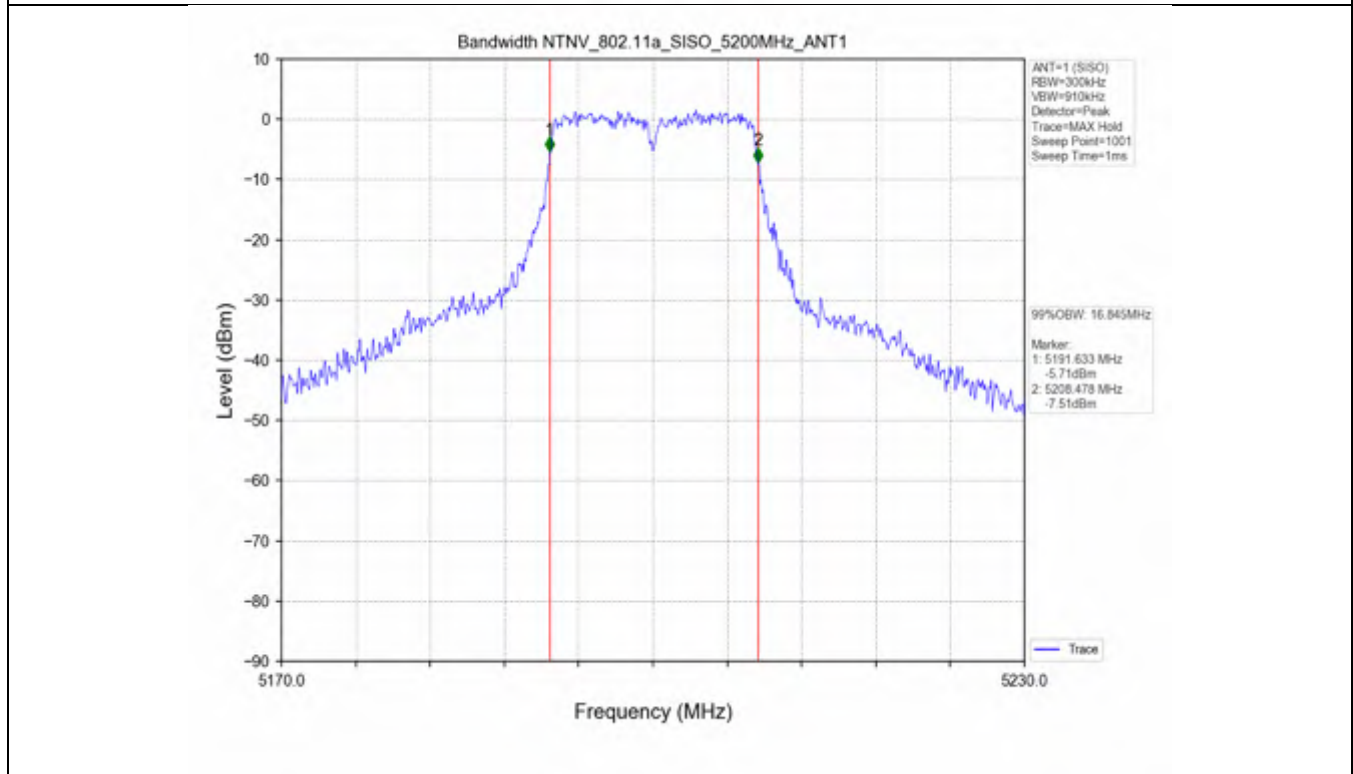
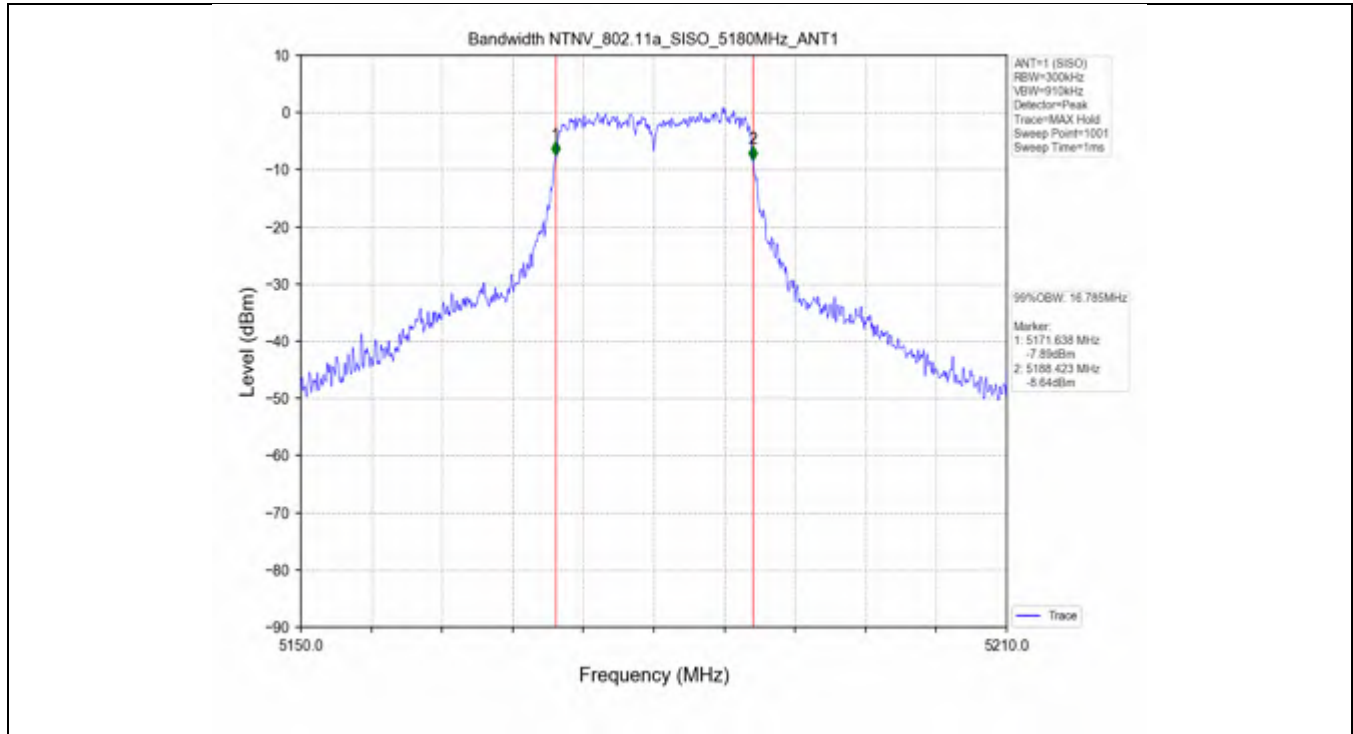
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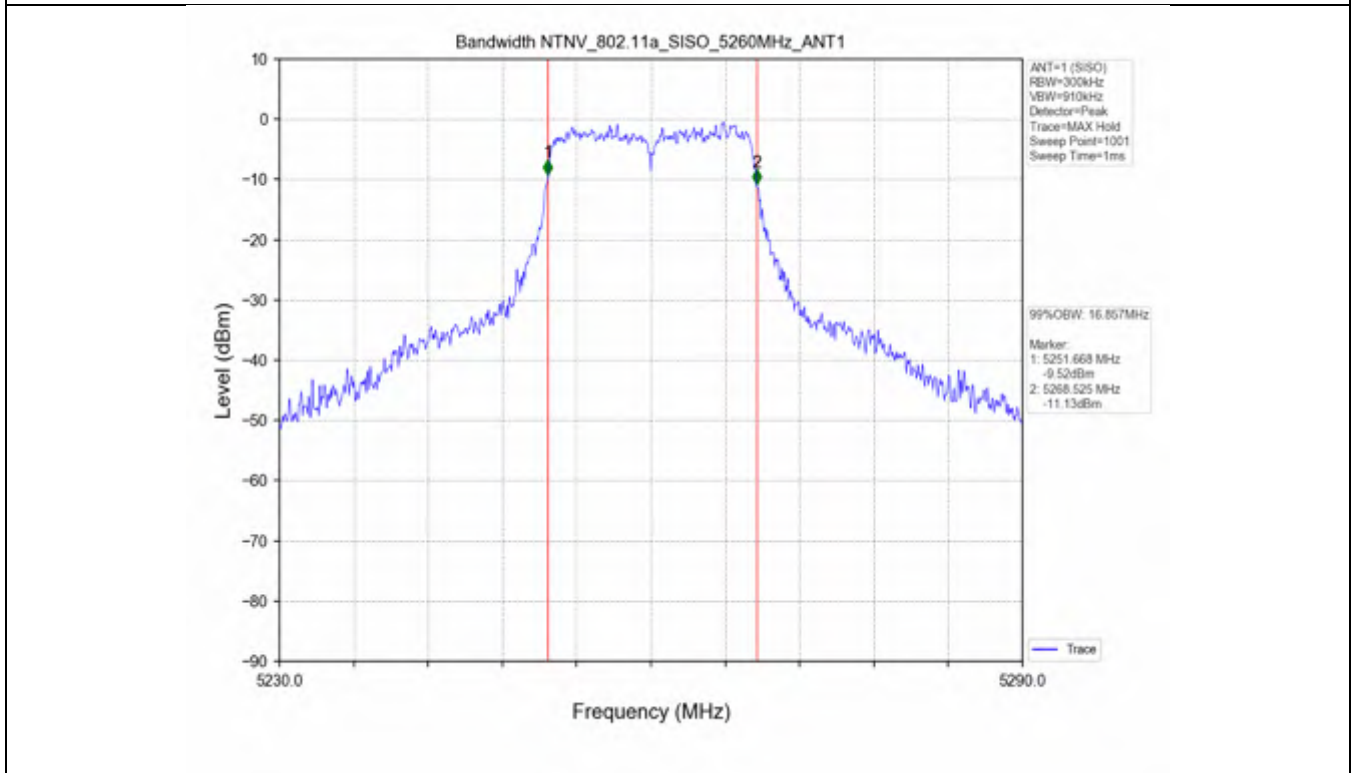
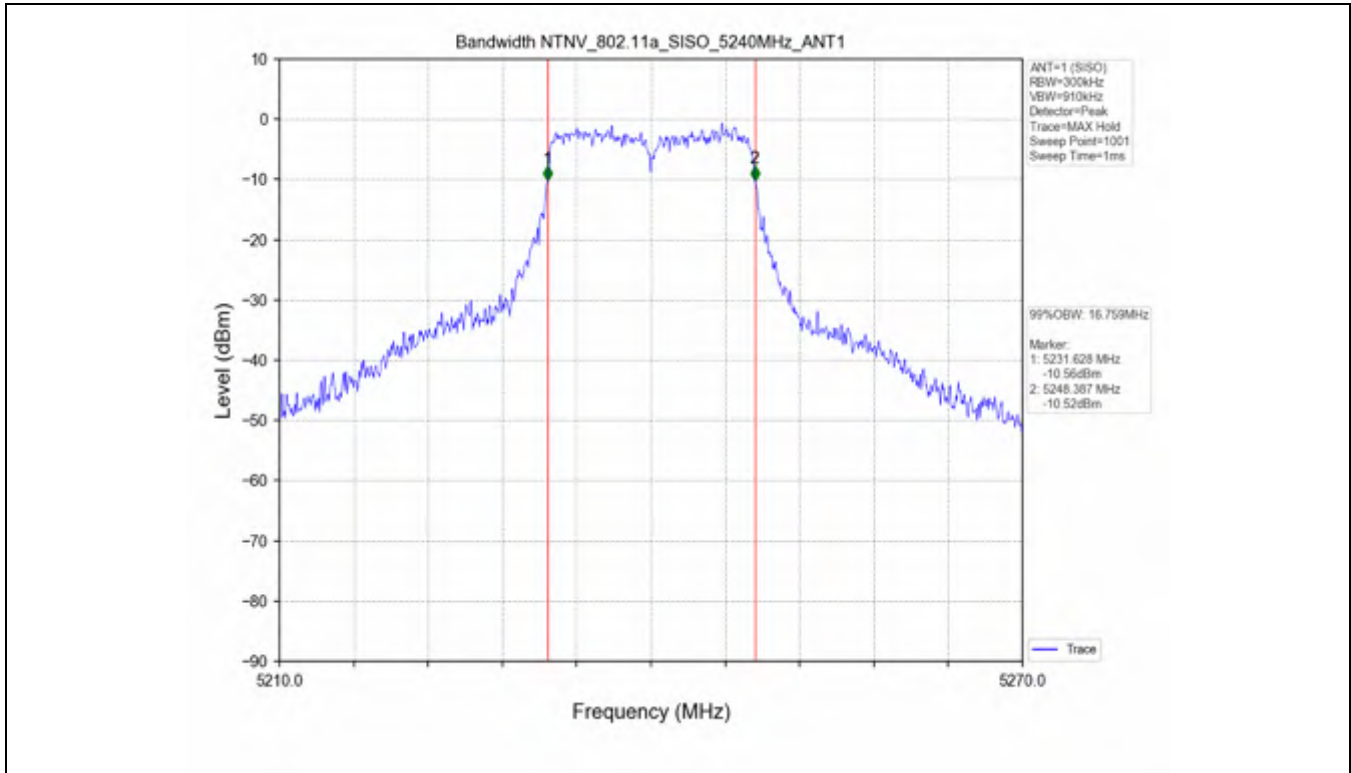
2.3 Test Graph - 99% Occupied Bandwidth



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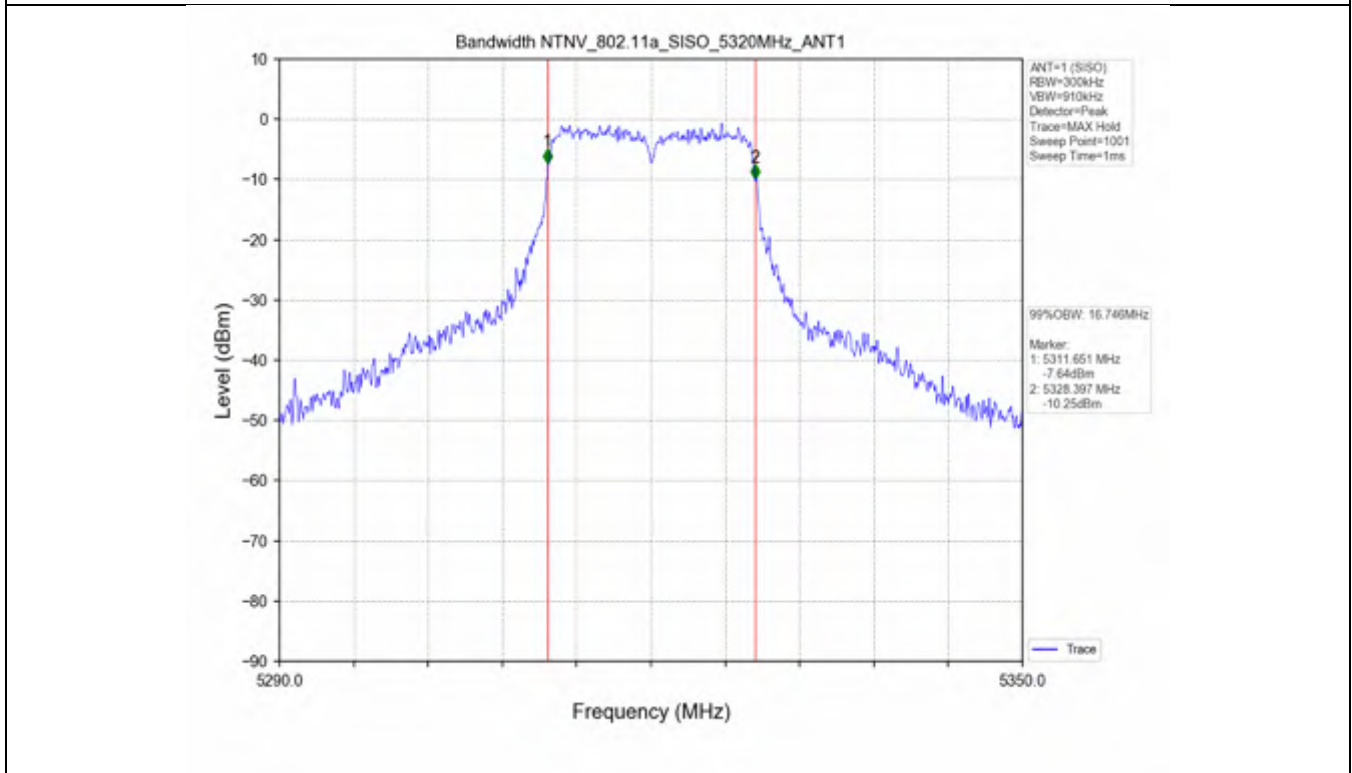
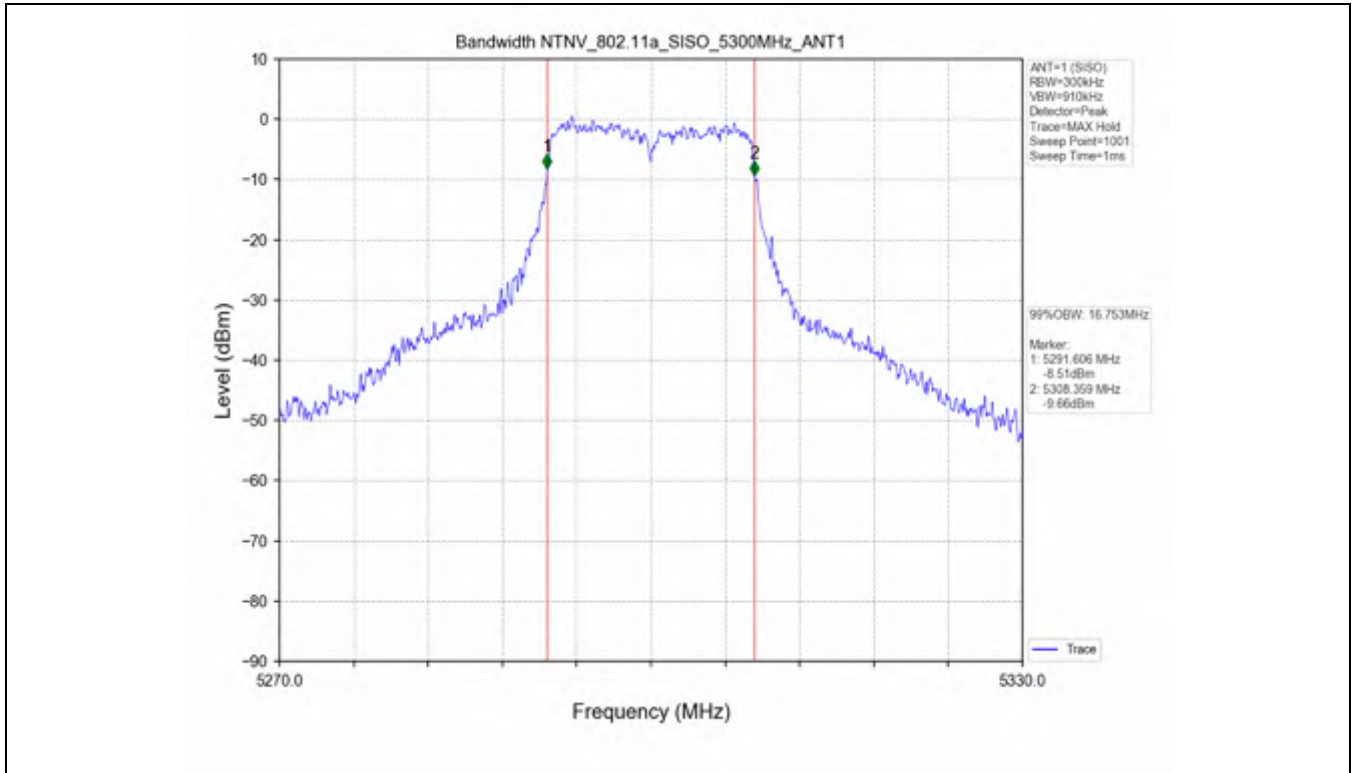
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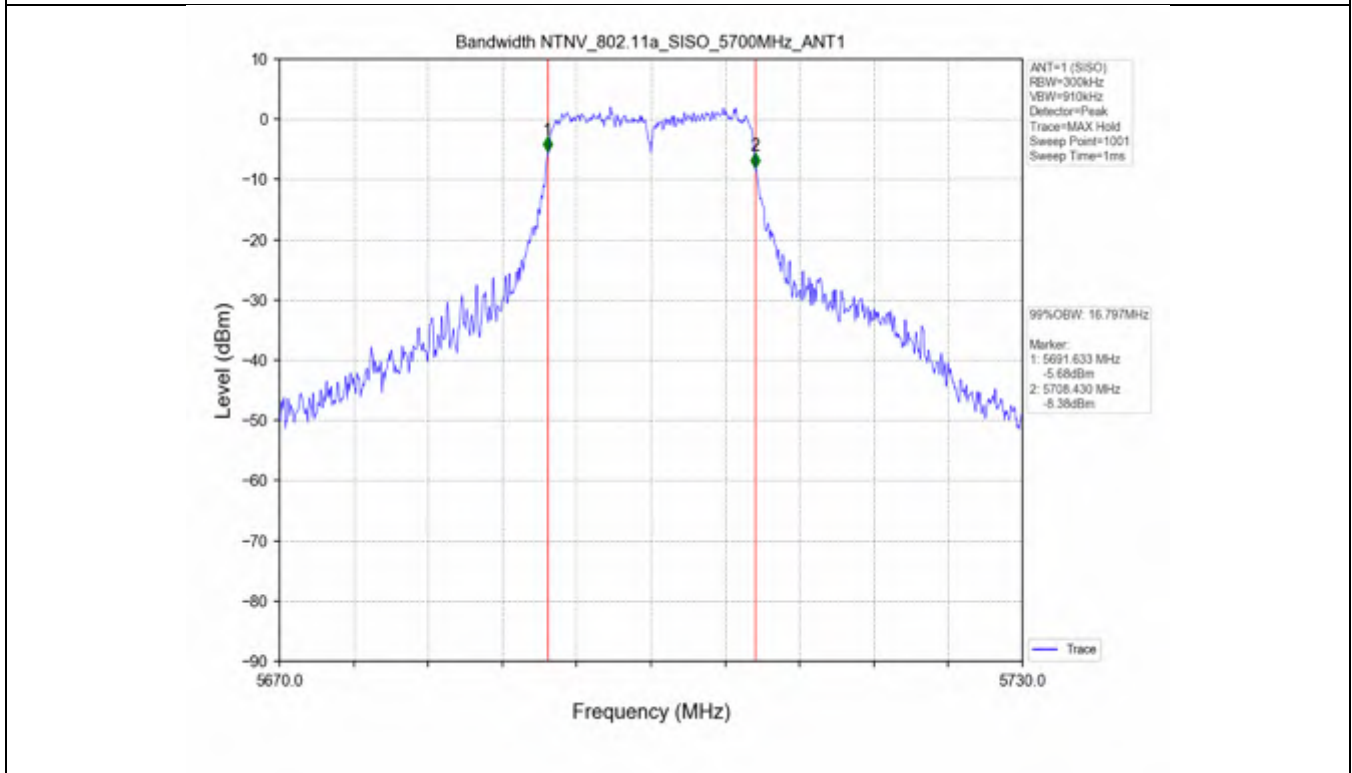
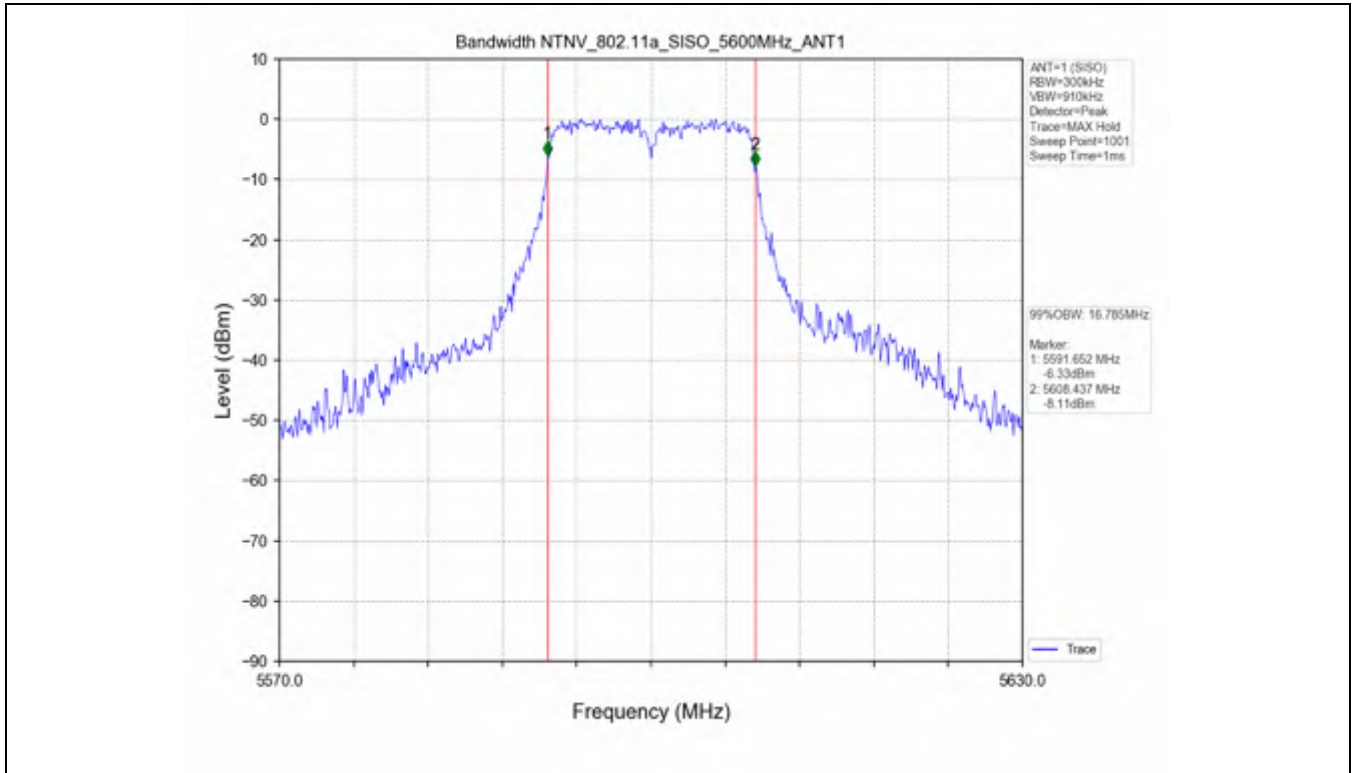
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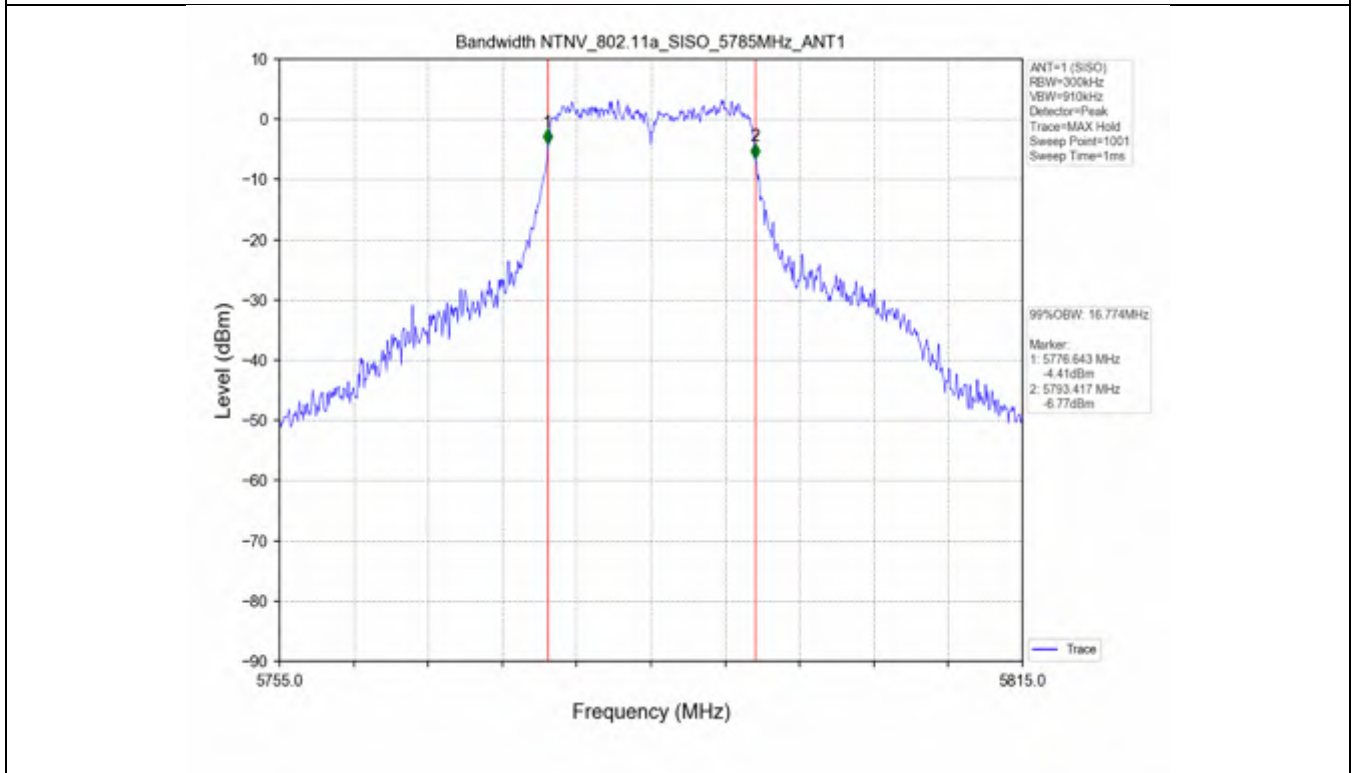
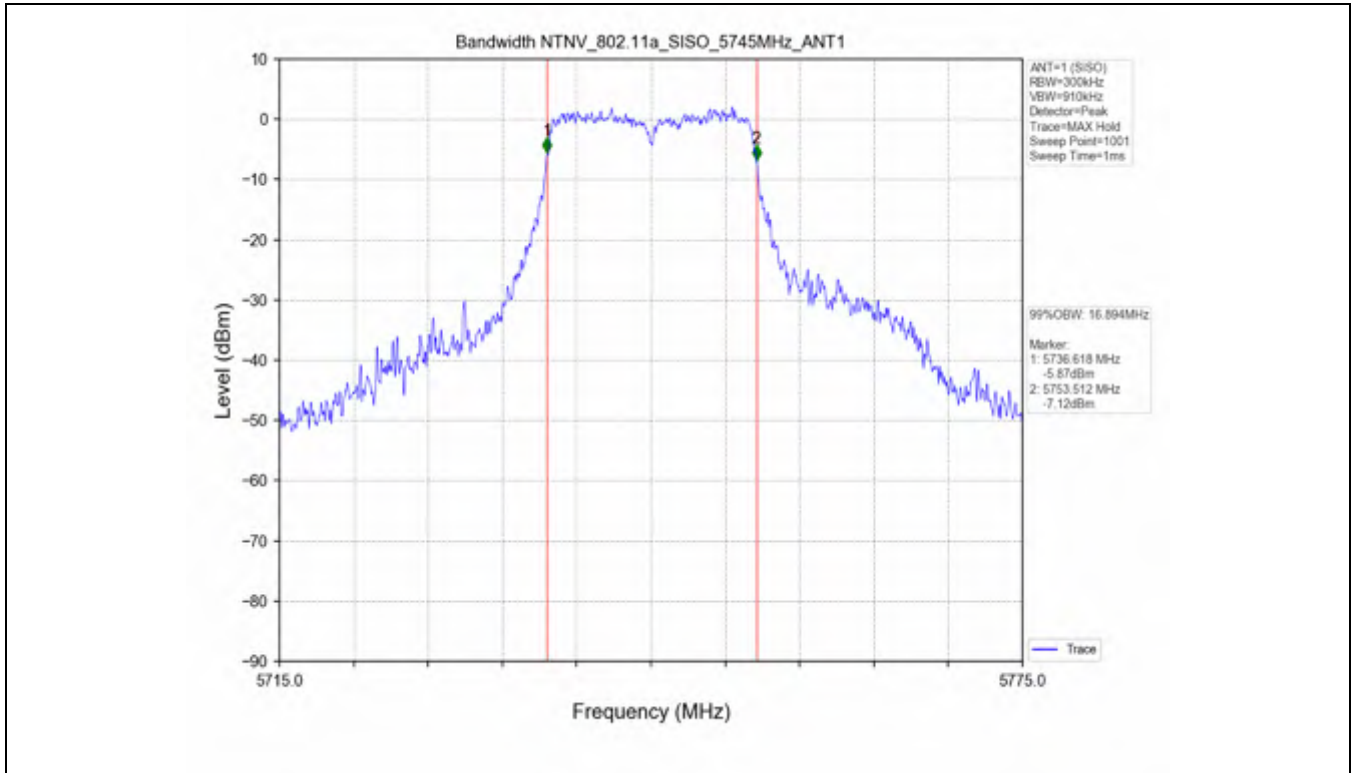


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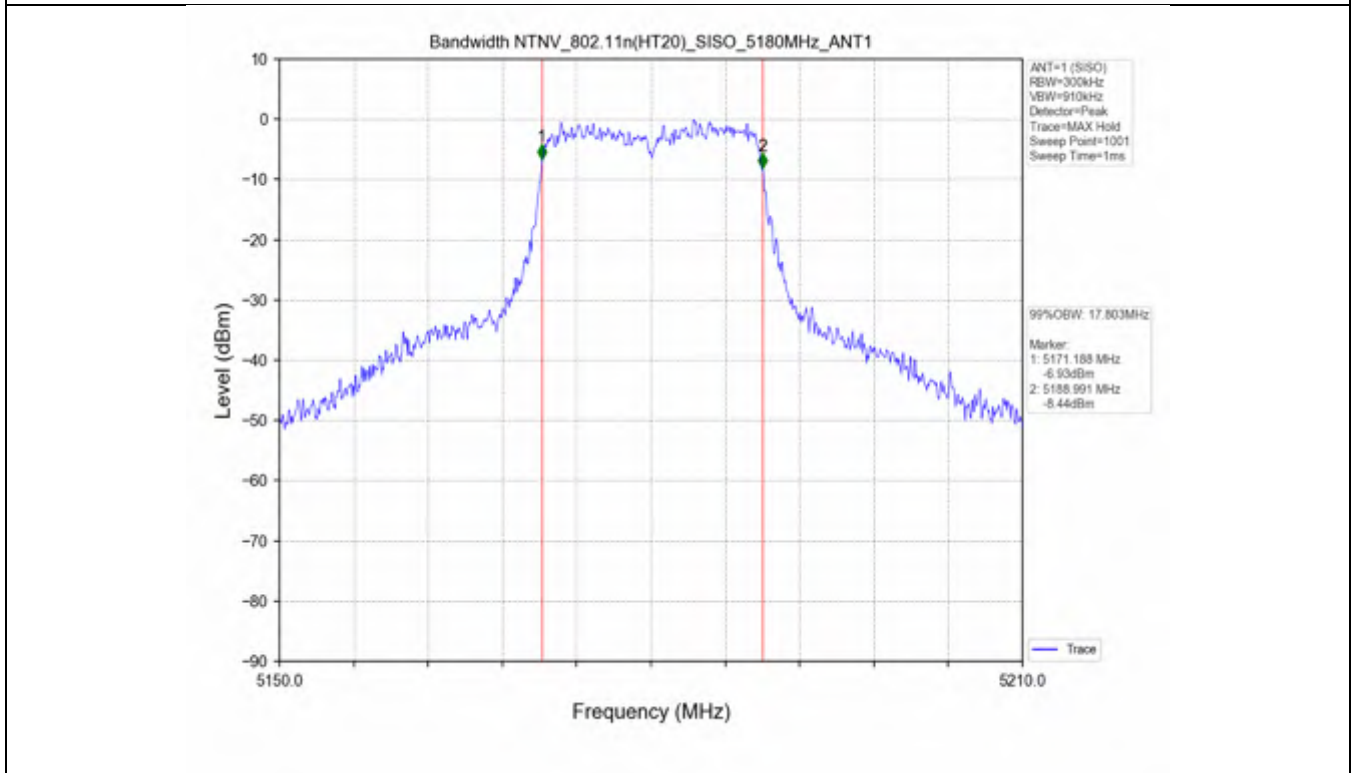
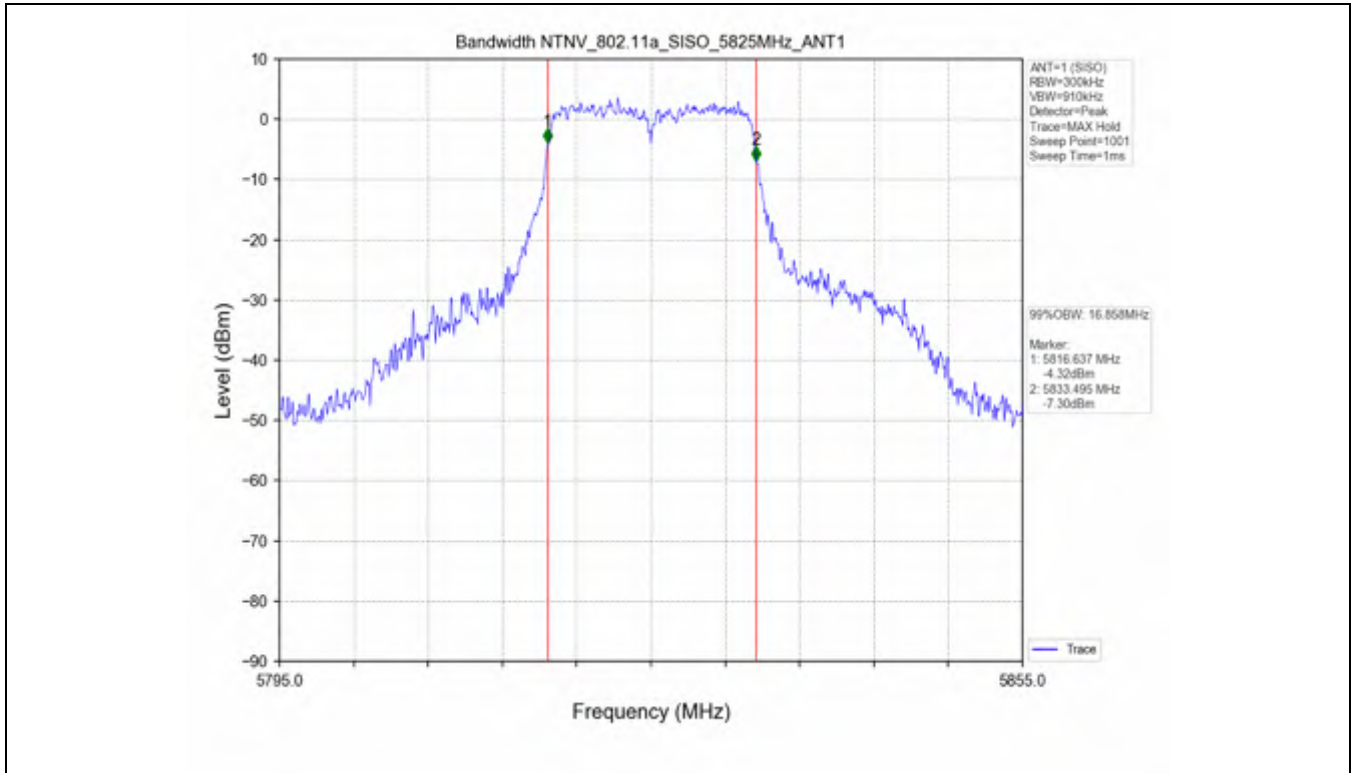
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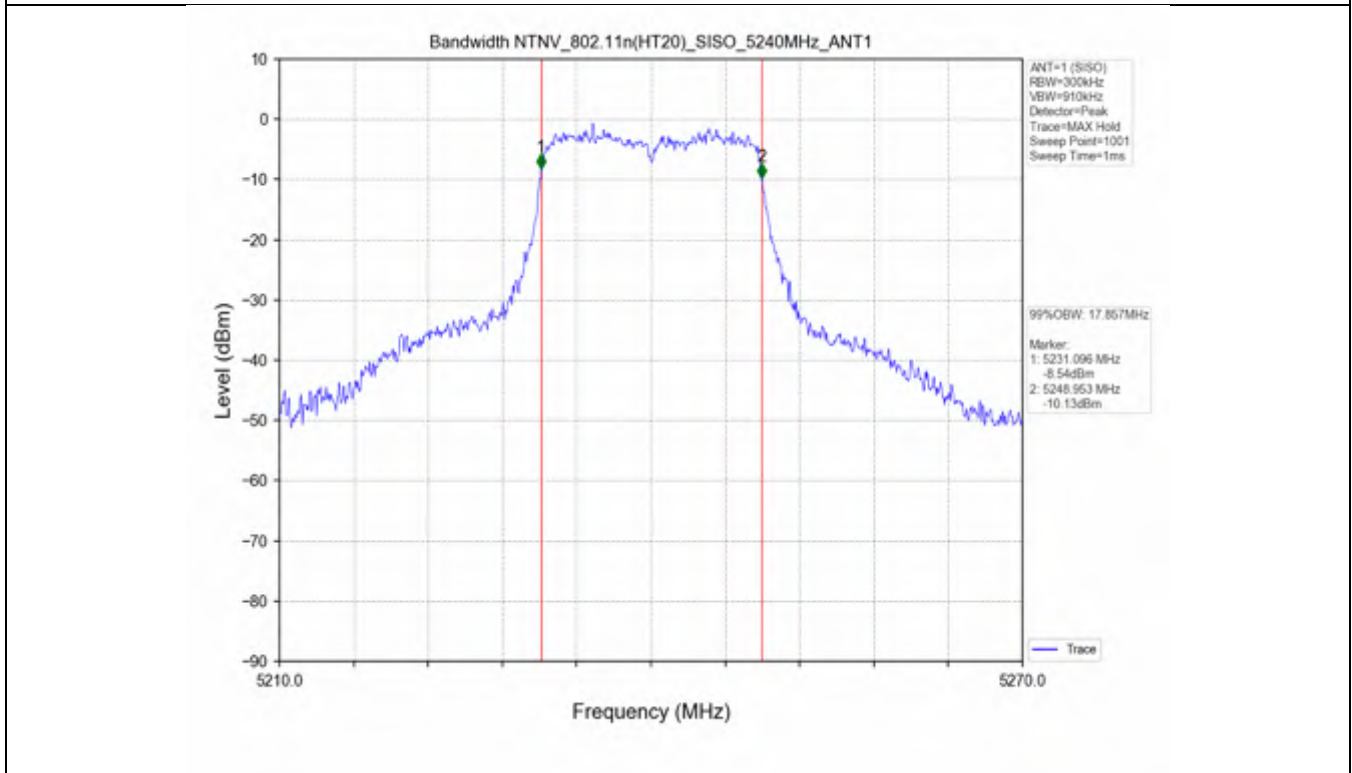
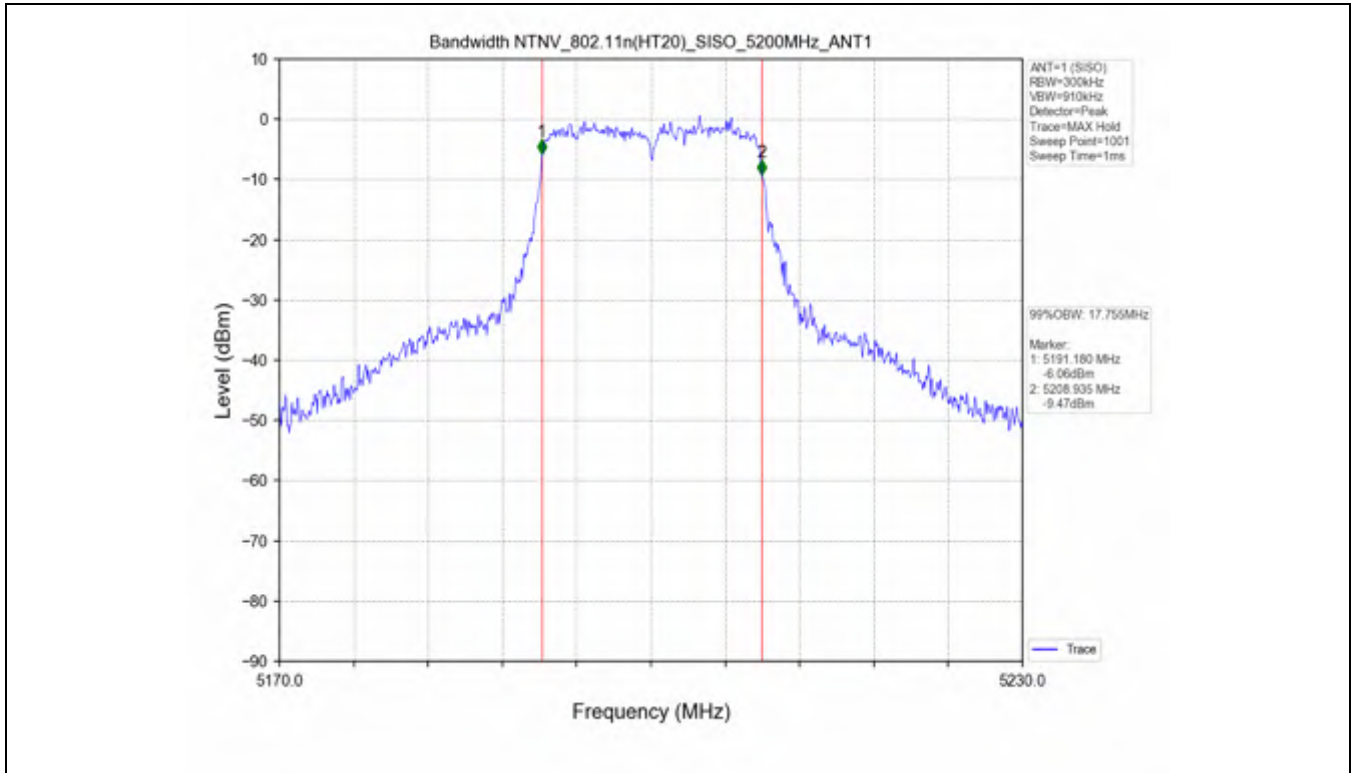
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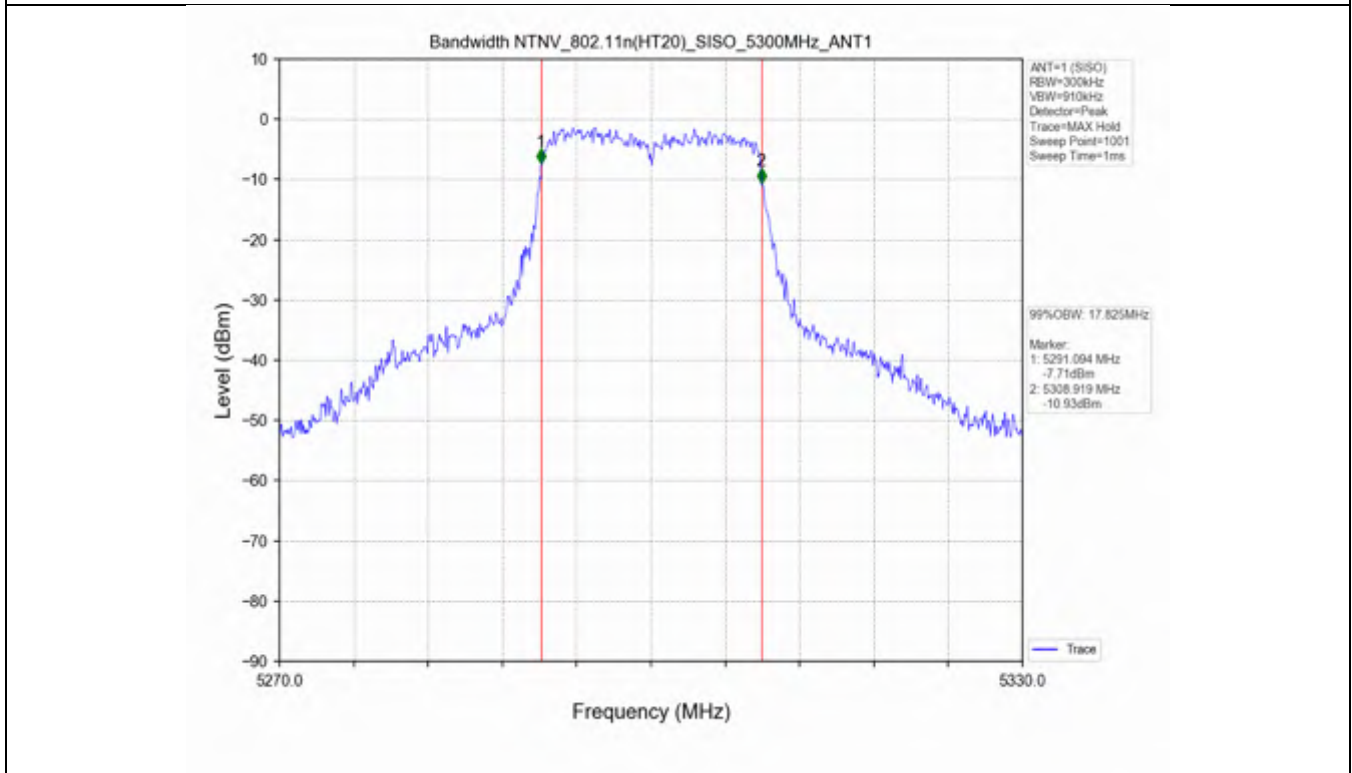
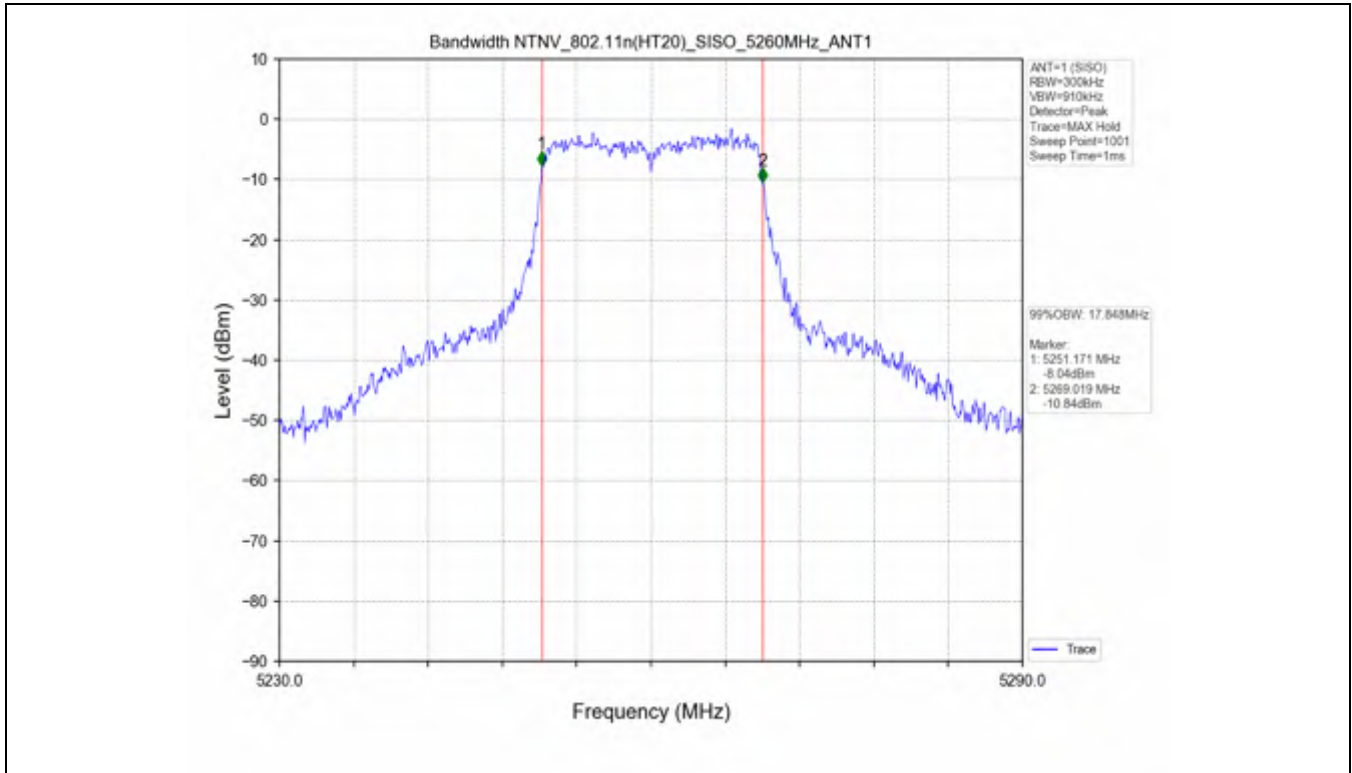
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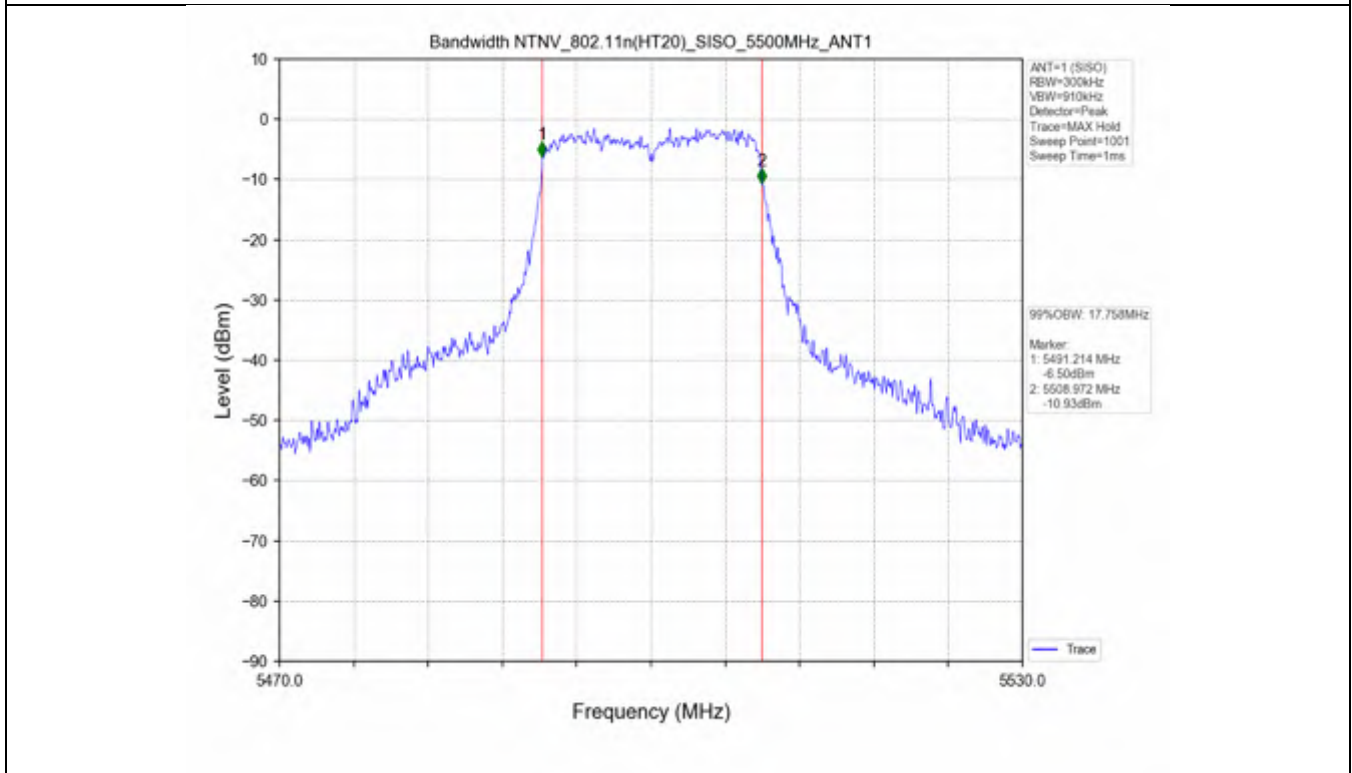
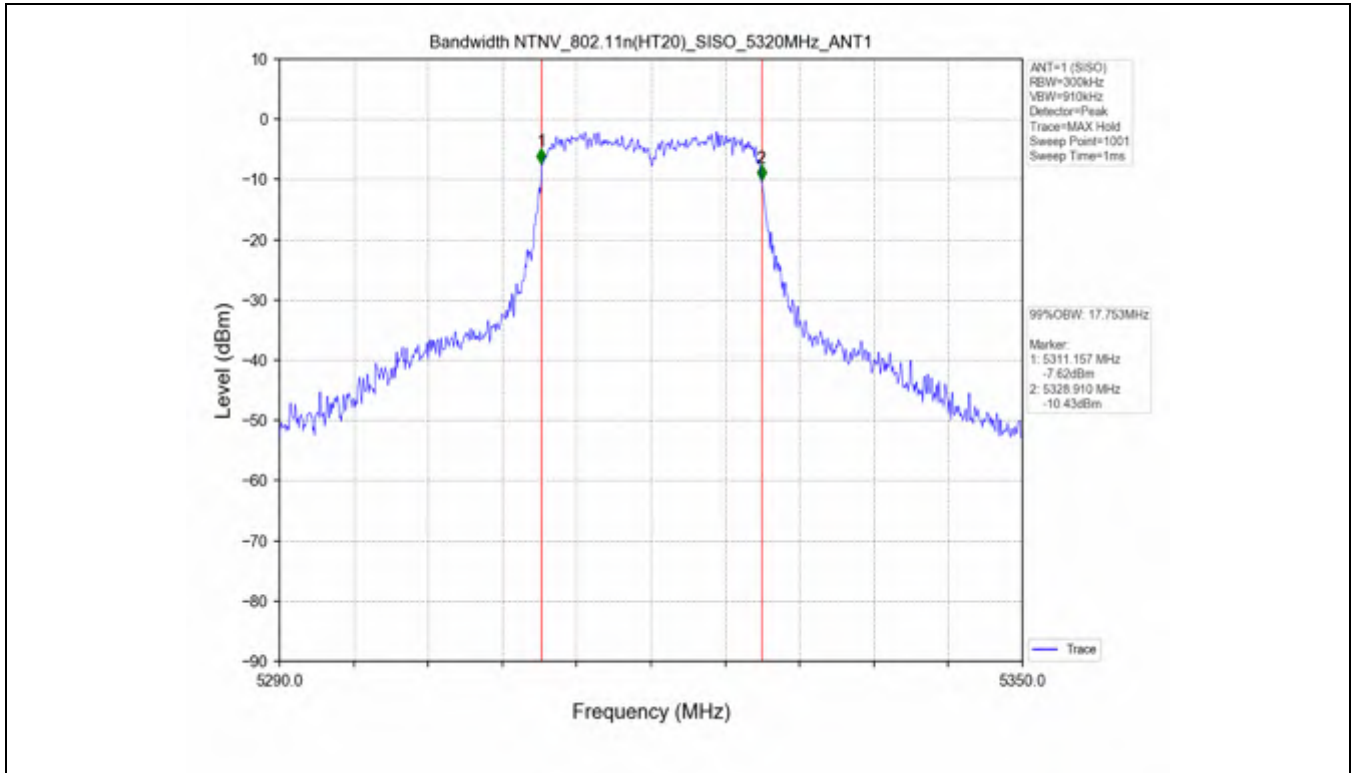
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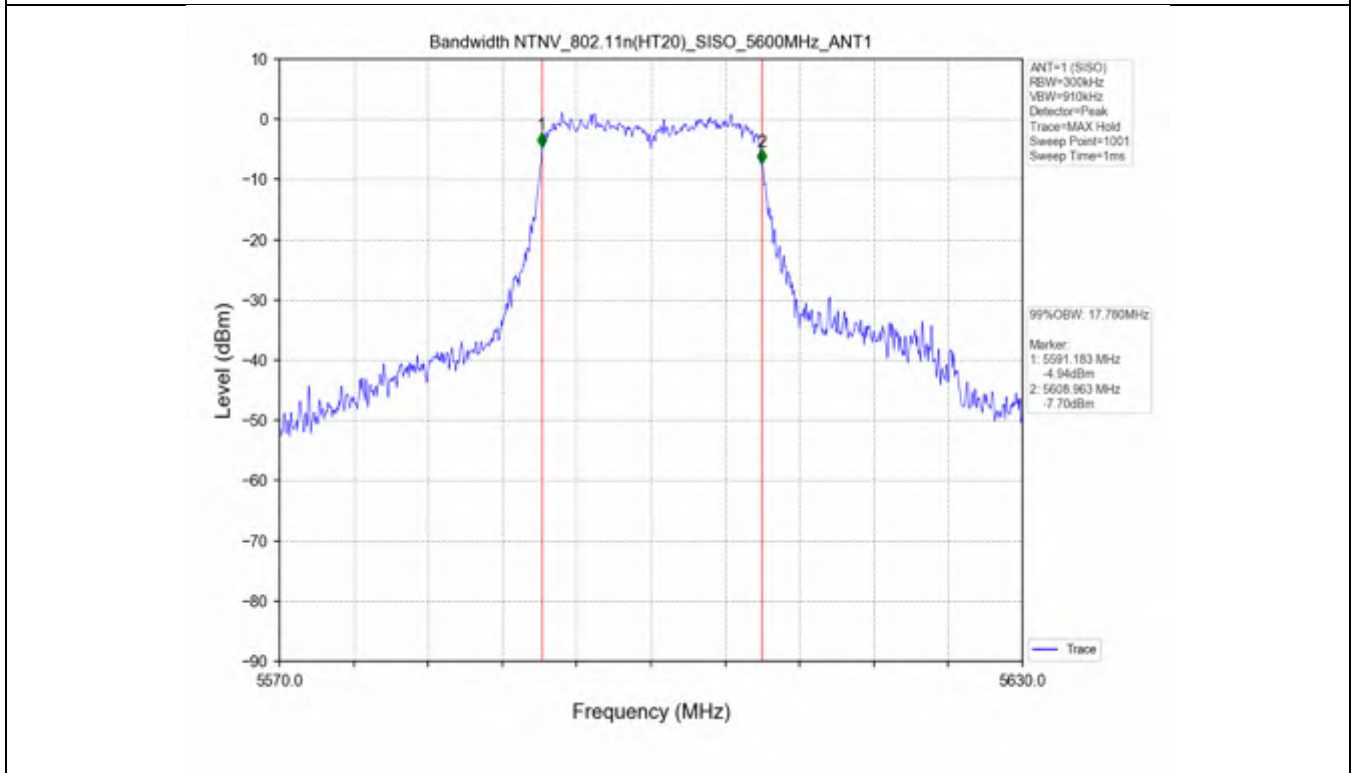
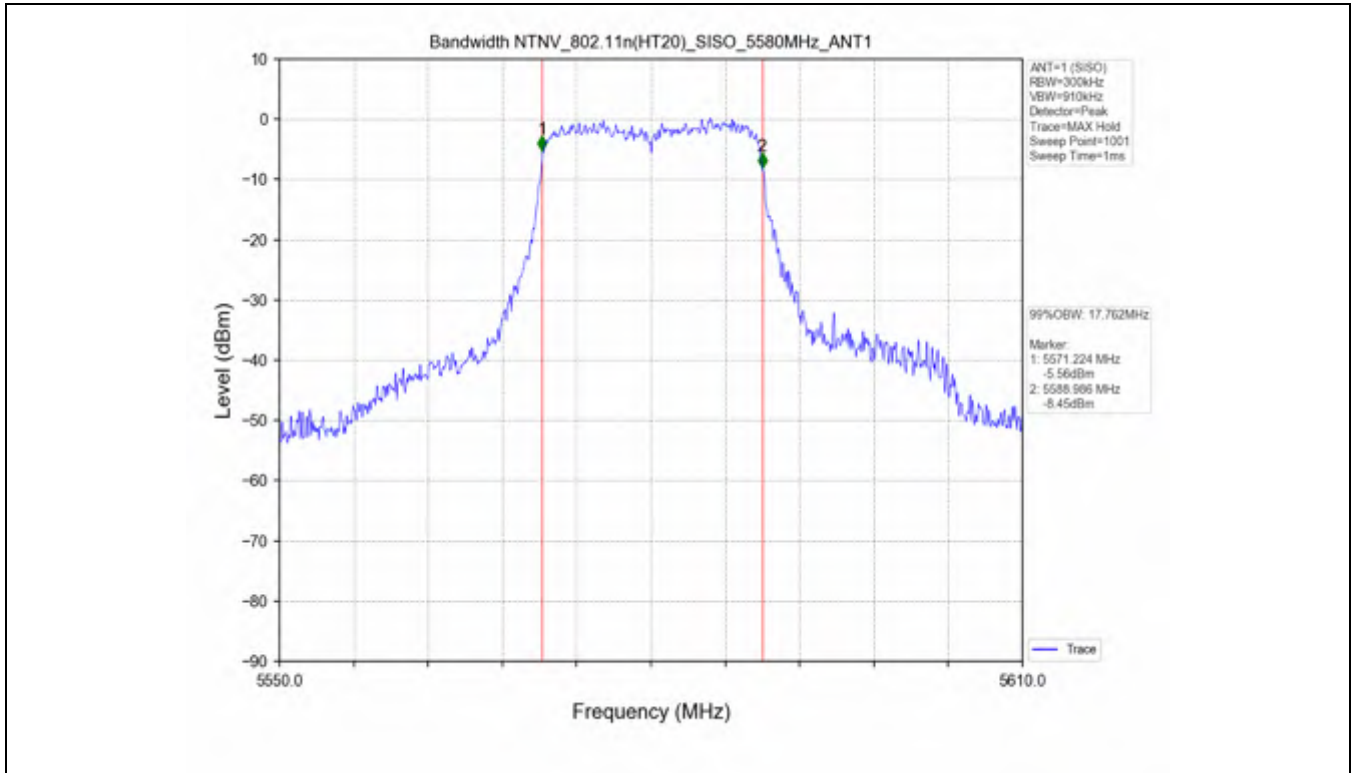
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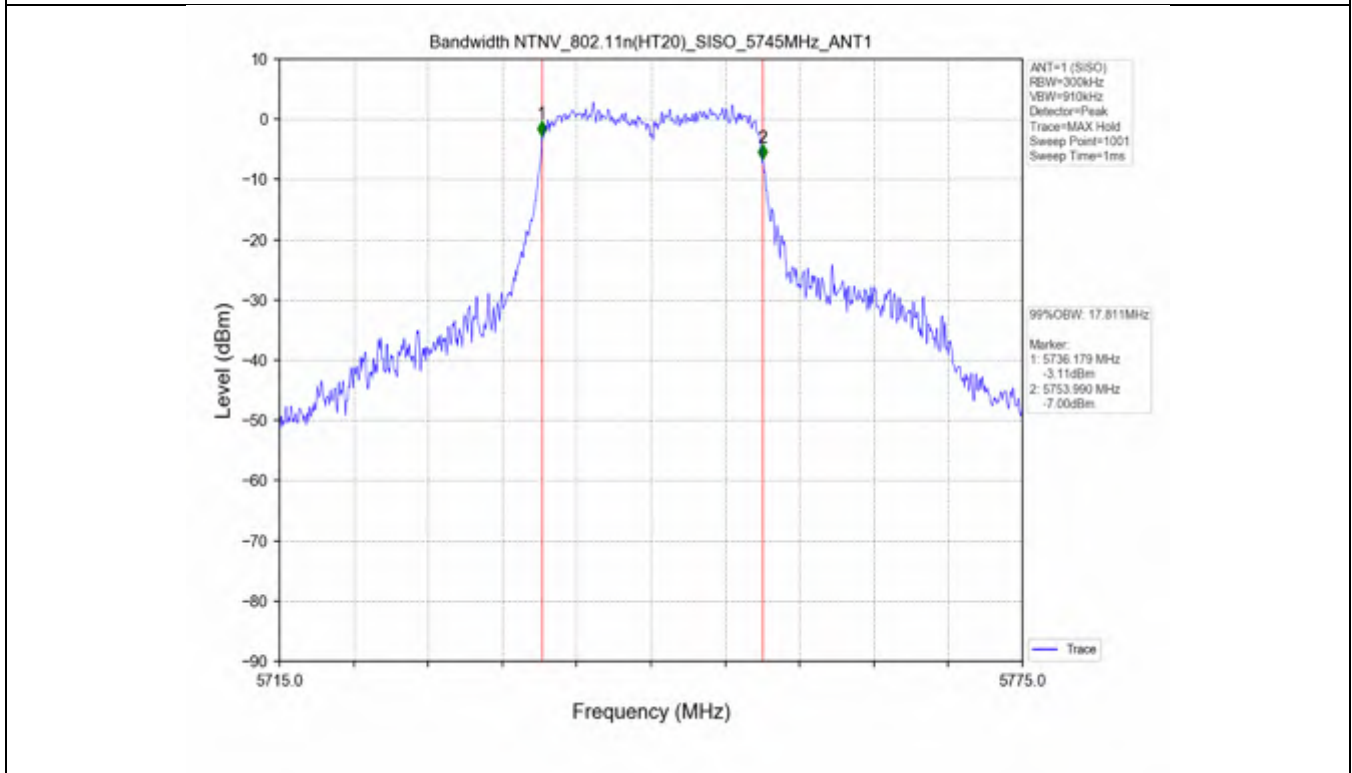
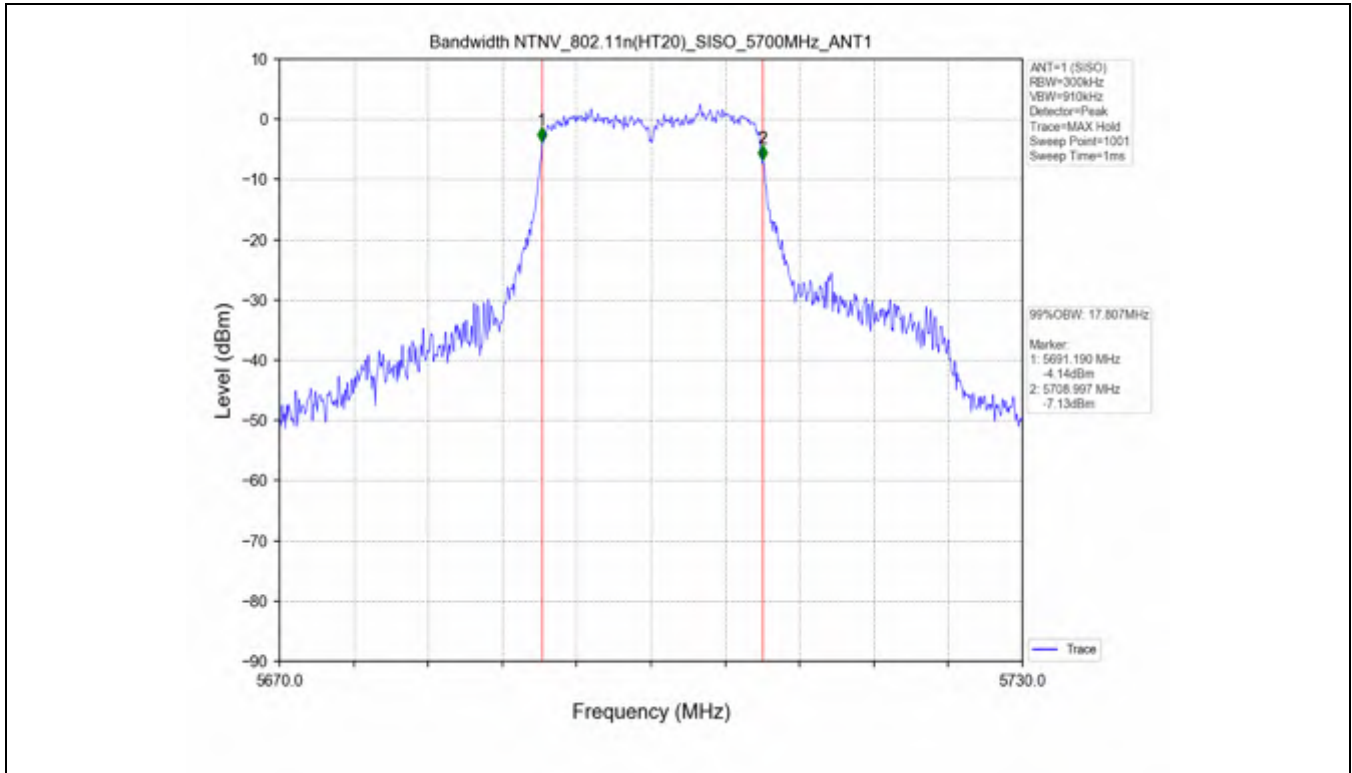
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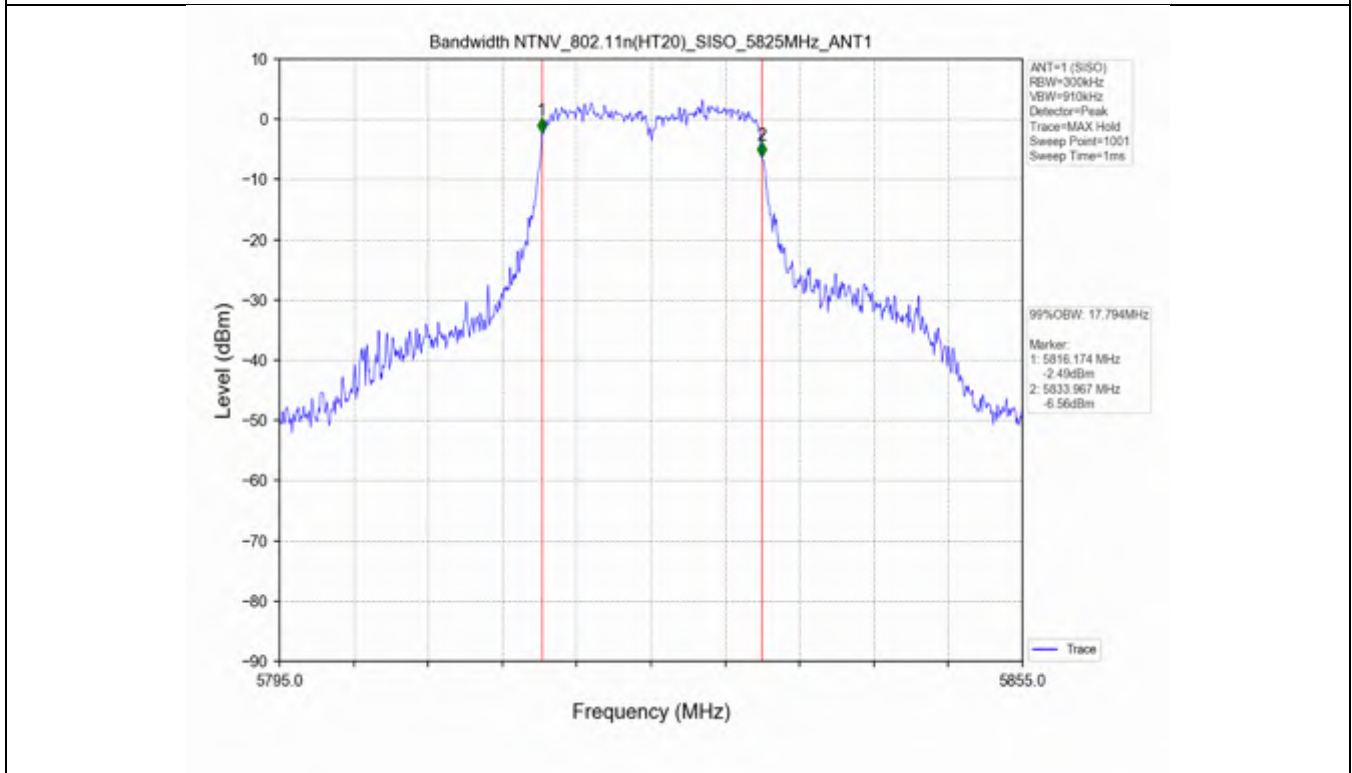
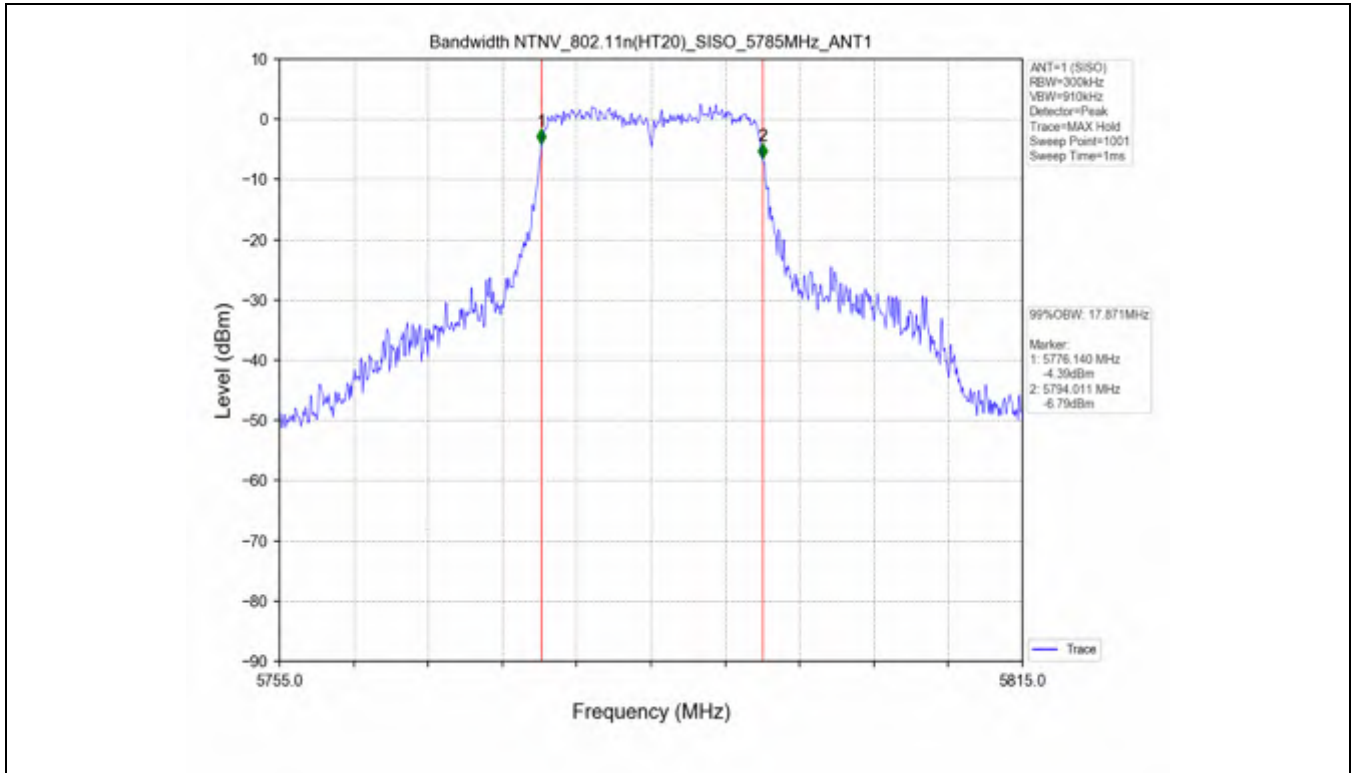
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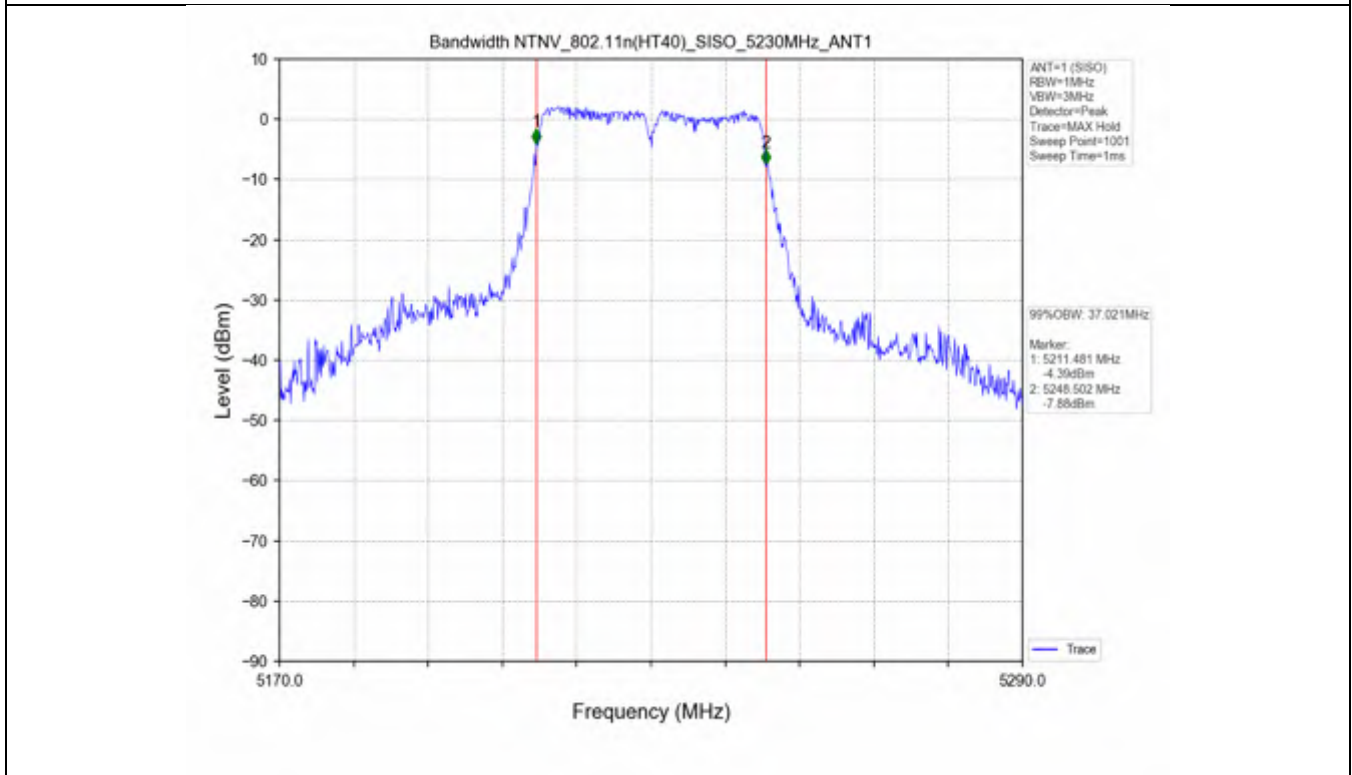
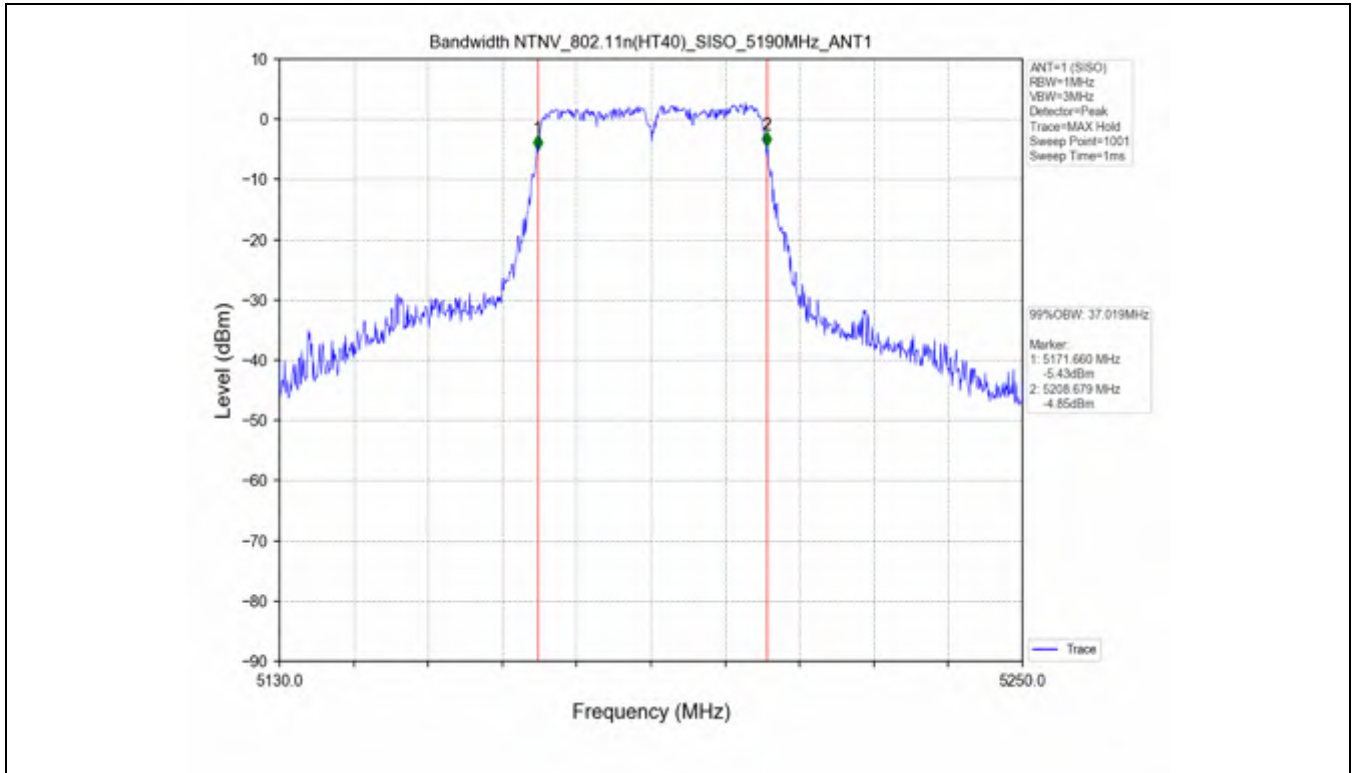
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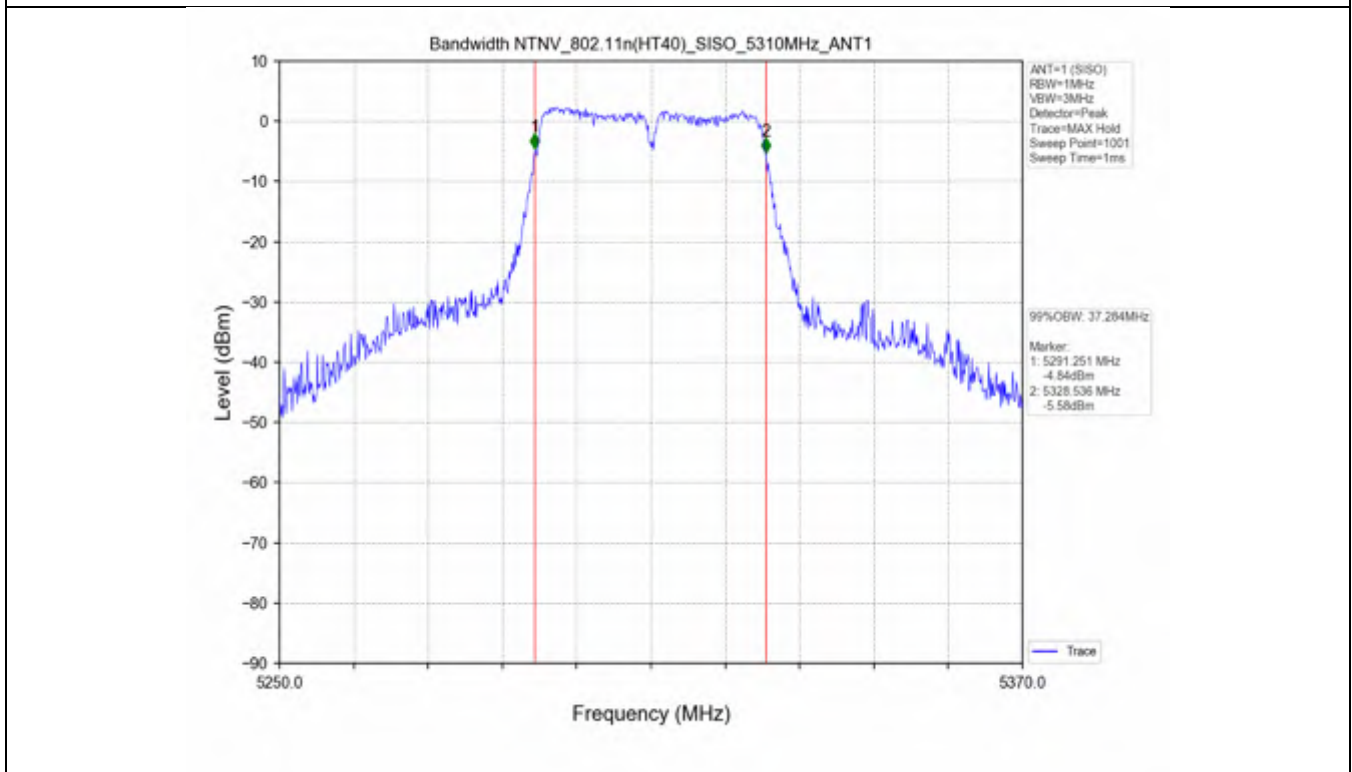
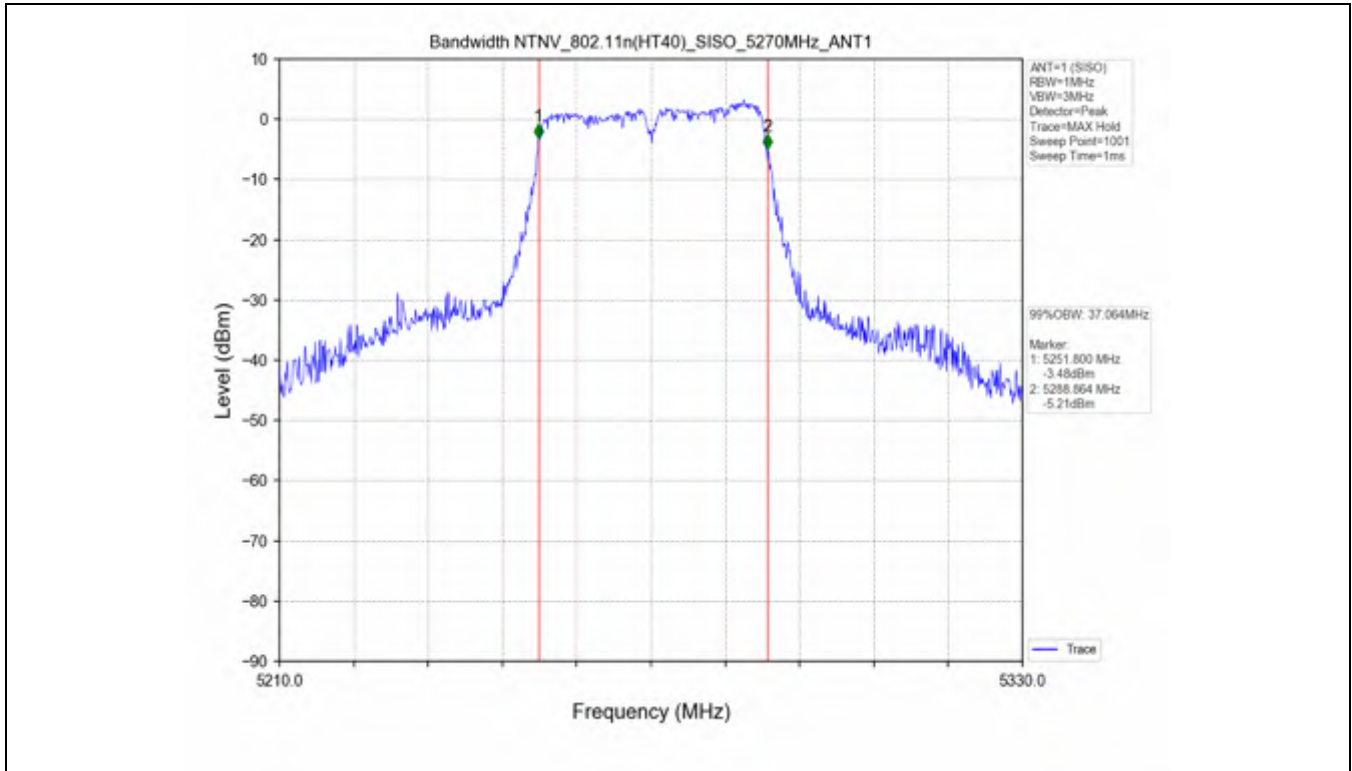
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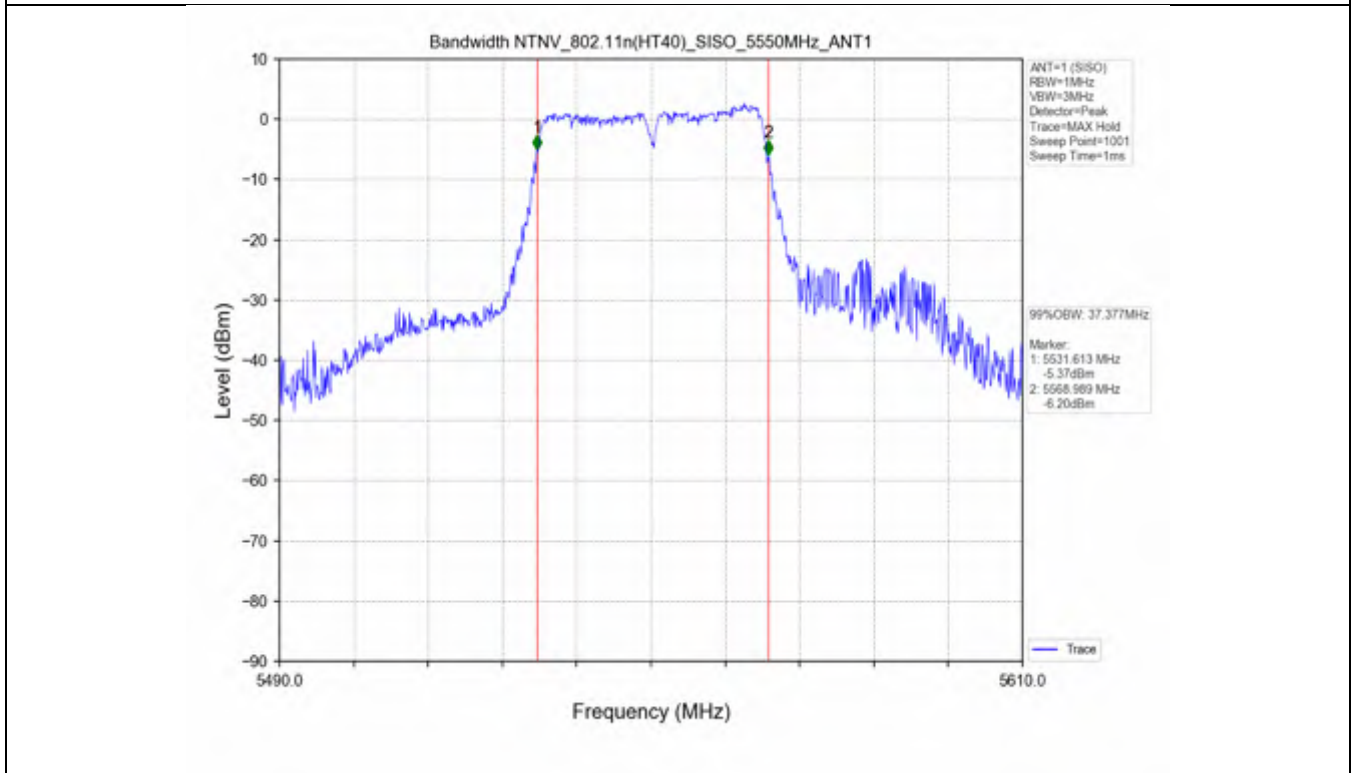
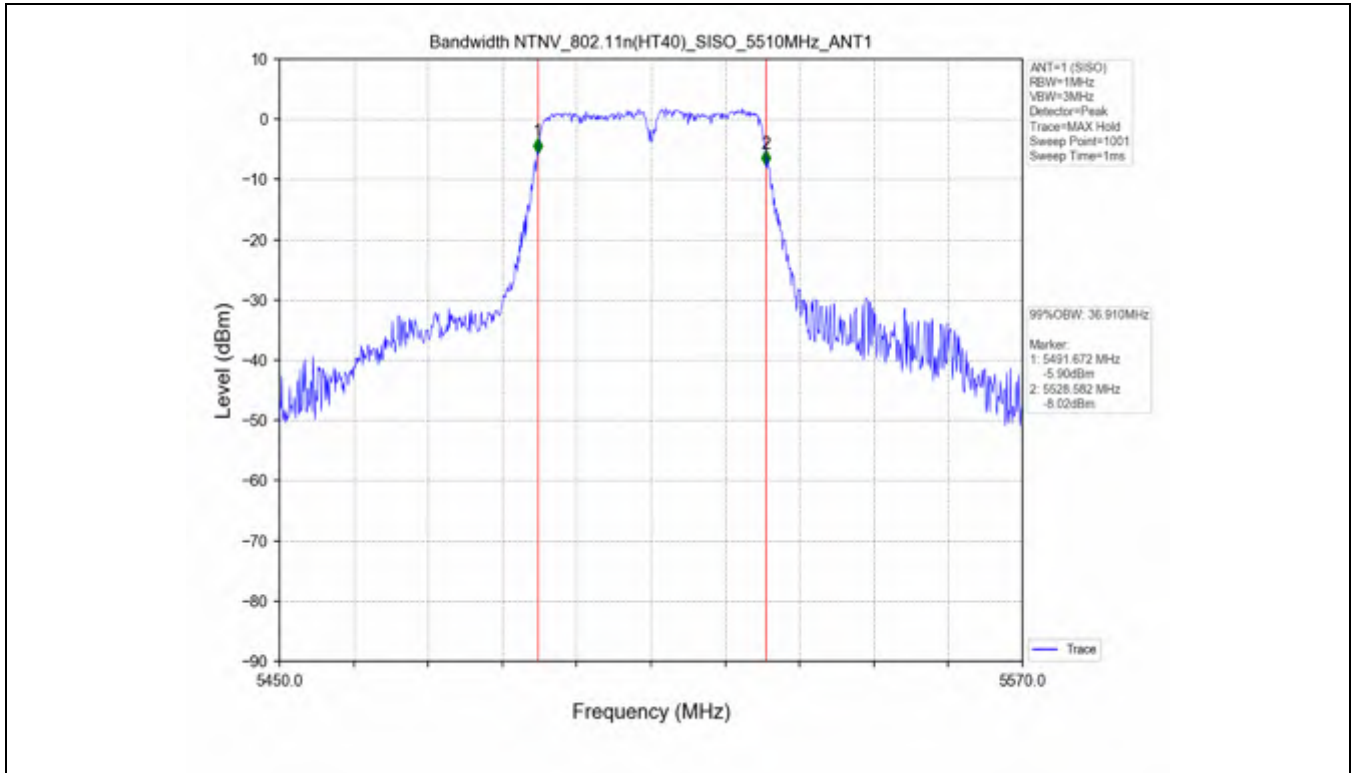


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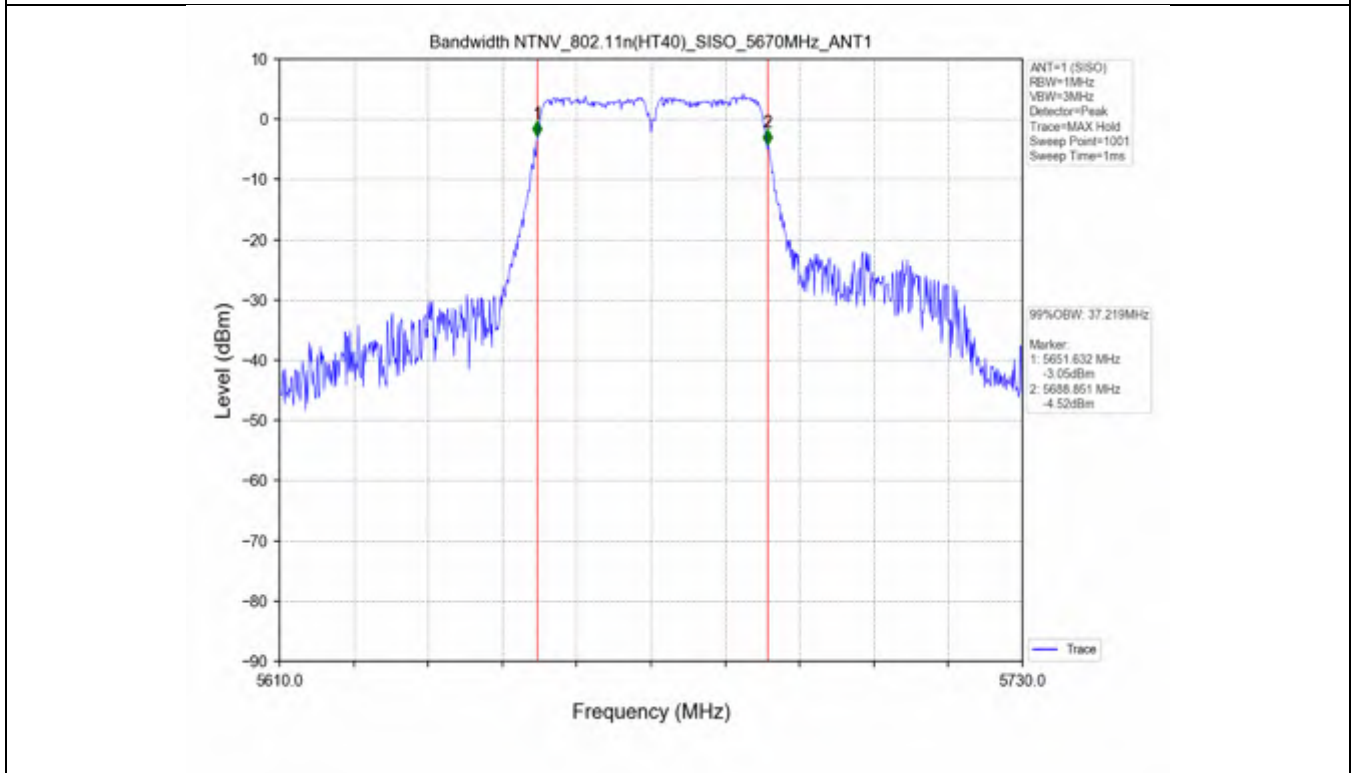
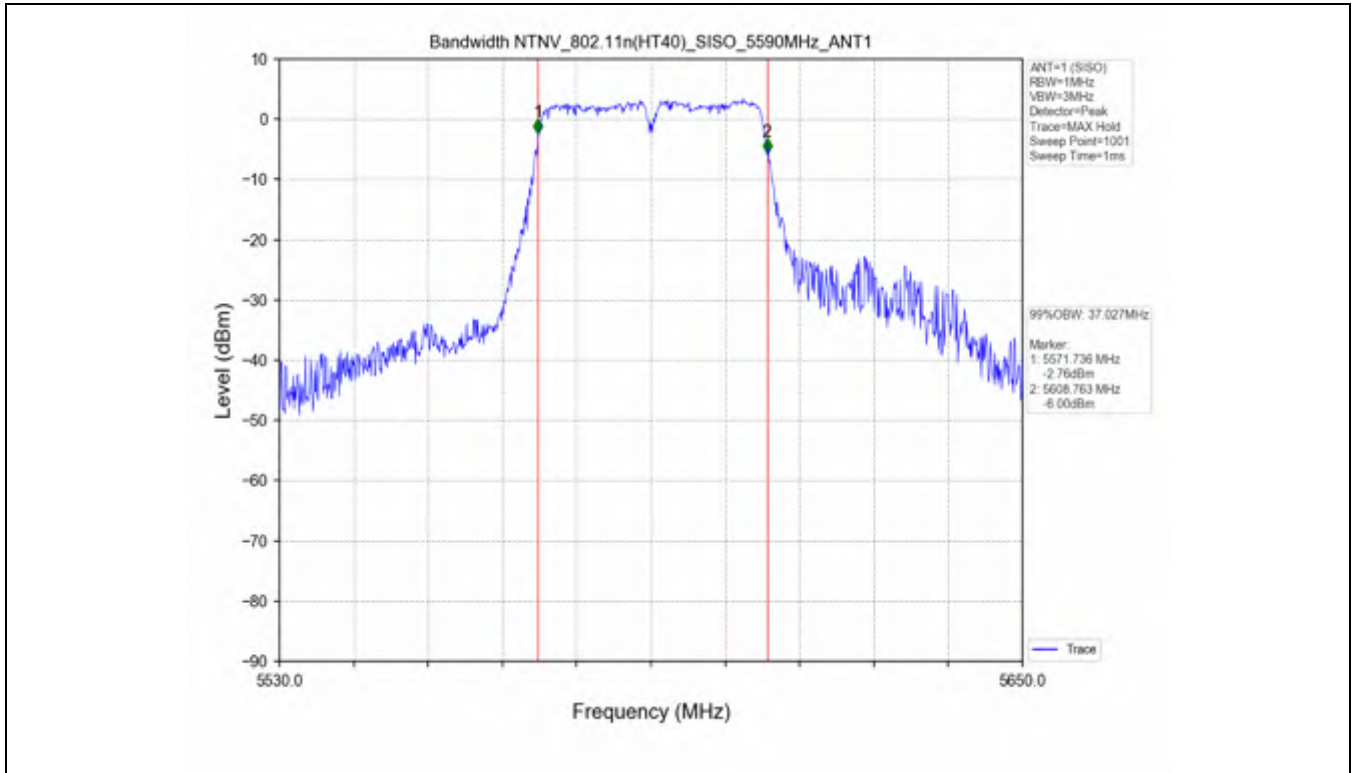


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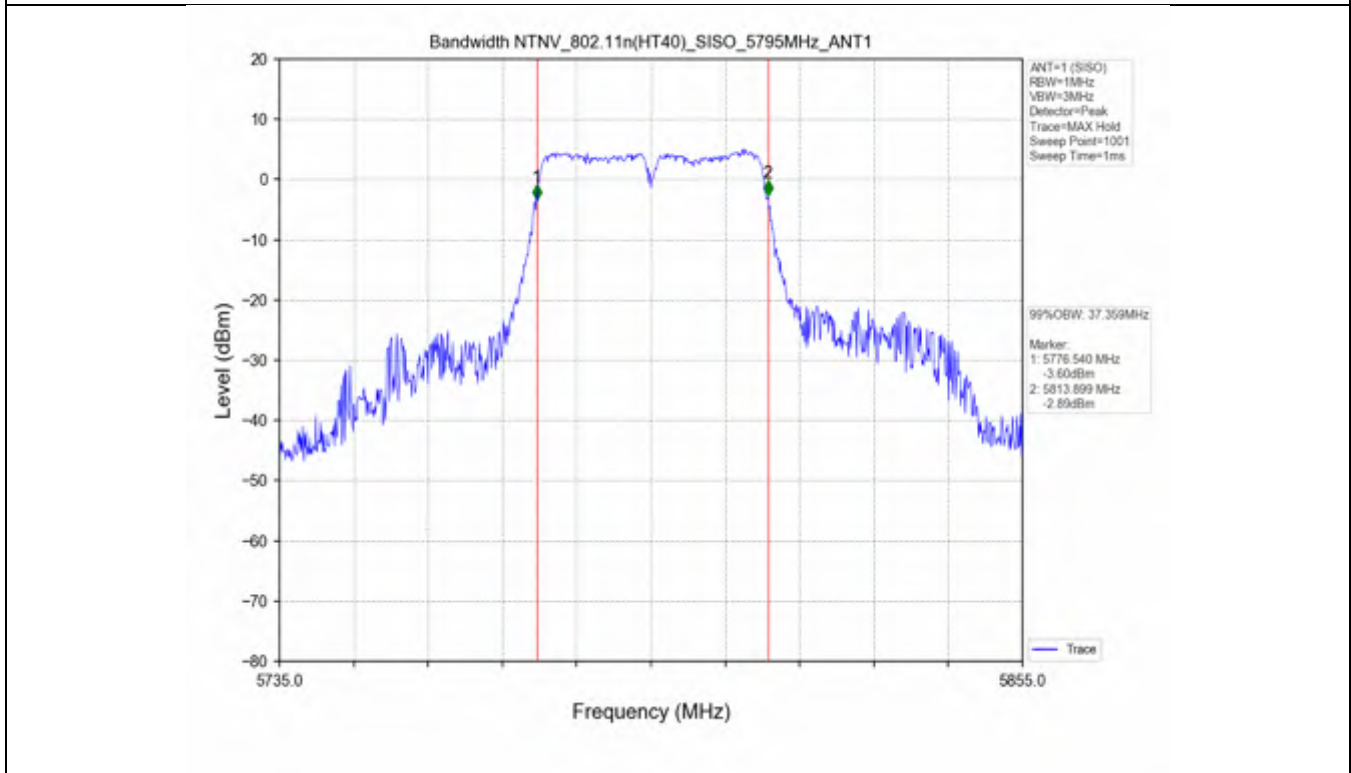
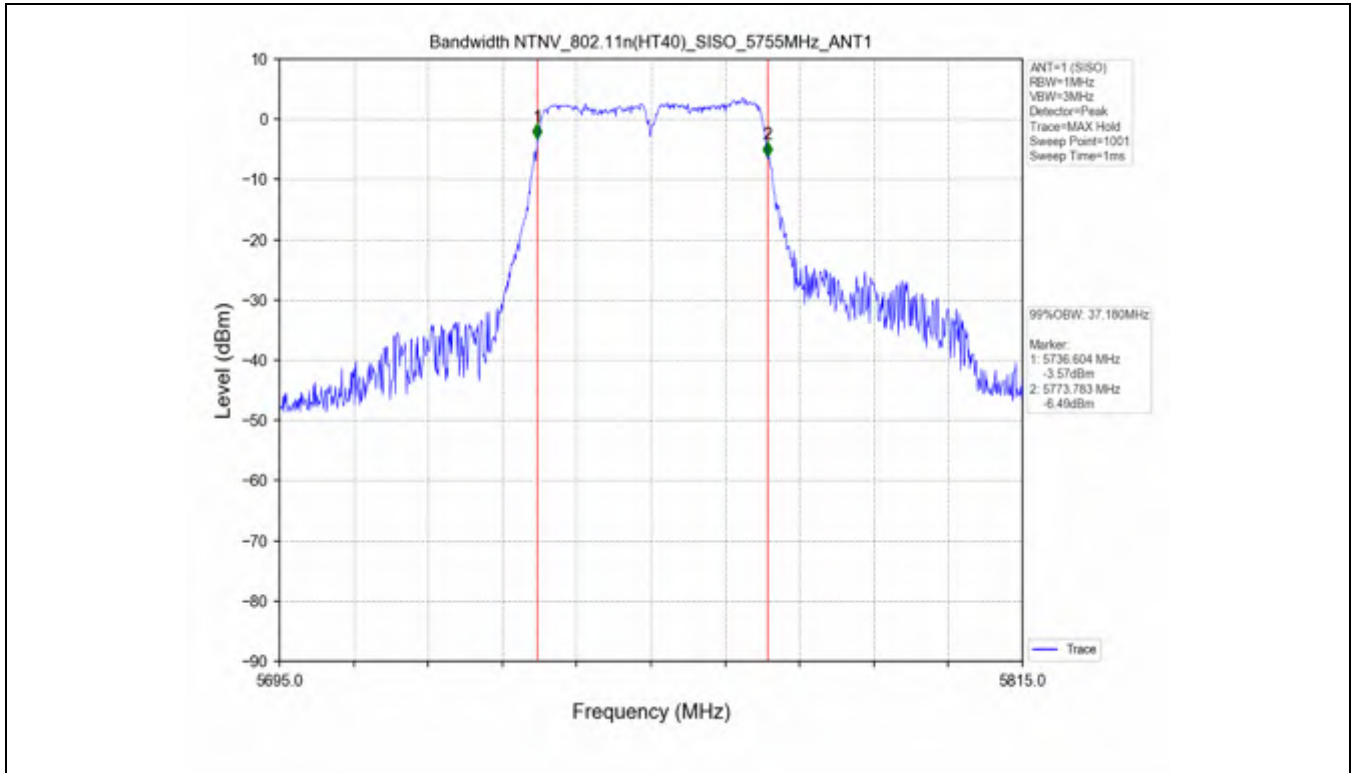
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3. Maximum Conducted Output Power

3.1 Test Result

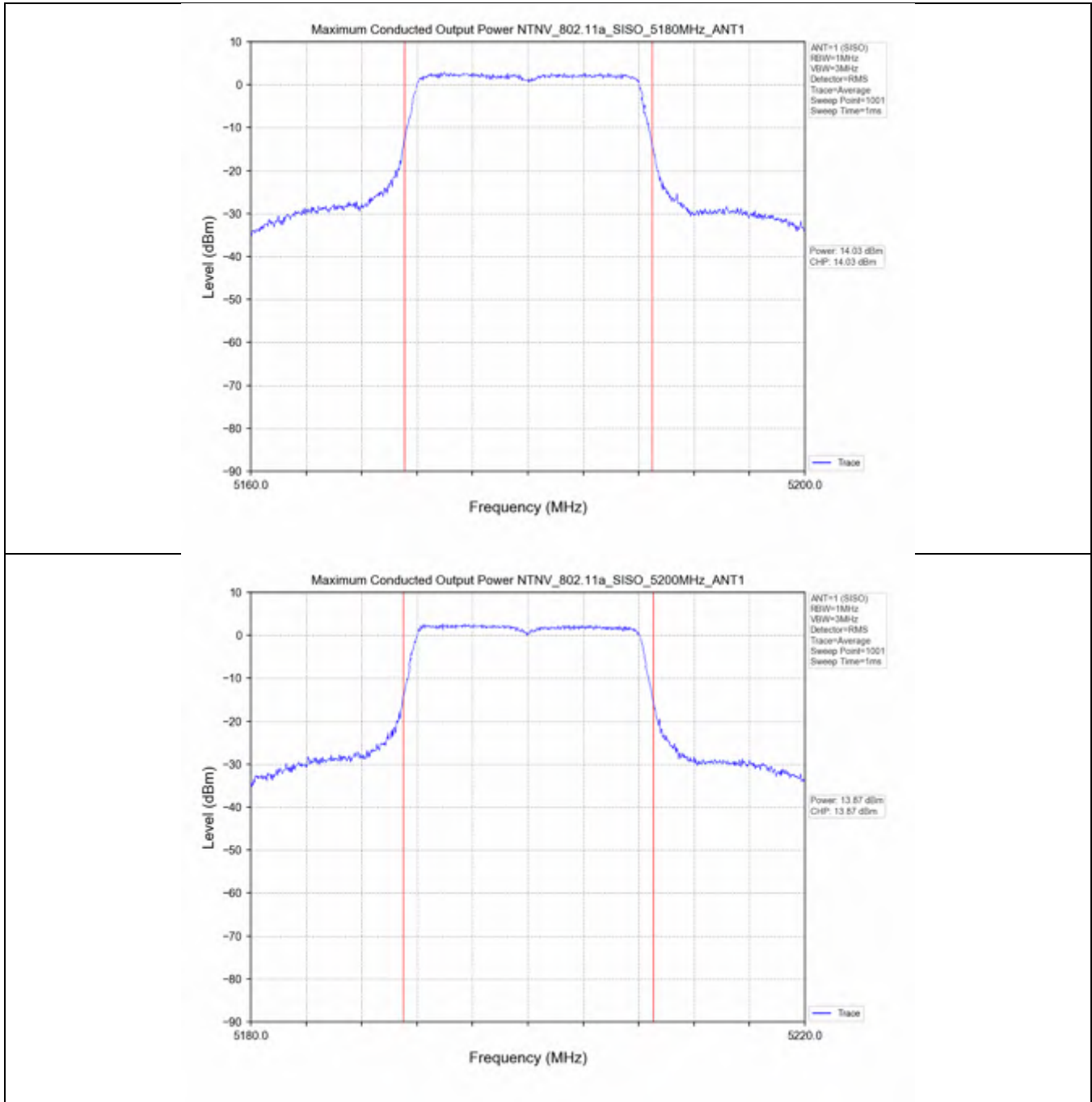
Test Mode	Frequency (MHz)	Tx Type	Measured Output Power (dBm)	Limit (dBm)	Verdict
			Ant 1		
802.11a	5180	SISO	14.03	≤23.98	PASS
	5200	SISO	13.87	≤23.98	PASS
	5240	SISO	13.78	≤23.98	PASS
	5260	SISO	14.50	≤23.98	PASS
	5300	SISO	13.55	≤23.98	PASS
	5320	SISO	14.48	≤23.98	PASS
	5500	SISO	14.48	≤23.98	PASS
	5580	SISO	14.69	≤23.98	PASS
	5600	SISO	15.01	≤23.98	PASS
	5700	SISO	13.13	≤23.98	PASS
	5745	SISO	13.34	≤30.00	PASS
	5785	SISO	14.37	≤30.00	PASS
802.11n(HT20)	5180	SISO	14.09	≤23.98	PASS
	5200	SISO	13.47	≤23.98	PASS
	5240	SISO	13.71	≤23.98	PASS
	5260	SISO	14.20	≤23.98	PASS
	5300	SISO	13.27	≤23.98	PASS
	5320	SISO	14.11	≤23.98	PASS
	5500	SISO	14.51	≤23.98	PASS
	5580	SISO	14.57	≤23.98	PASS
	5600	SISO	14.95	≤23.98	PASS
	5700	SISO	13.56	≤23.98	PASS
	5745	SISO	14.15	≤30.00	PASS
	5785	SISO	14.19	≤30.00	PASS
802.11n(HT40)	5190	SISO	13.56	≤23.98	PASS
	5230	SISO	13.18	≤23.98	PASS
	5270	SISO	13.44	≤23.98	PASS
	5310	SISO	13.65	≤23.98	PASS
	5510	SISO	14.14	≤23.98	PASS
	5550	SISO	15.07	≤23.98	PASS
	5590	SISO	14.82	≤23.98	PASS
	5670	SISO	13.16	≤23.98	PASS
	5755	SISO	14.27	≤30.00	PASS
5795	SISO	13.88	≤30.00	PASS	



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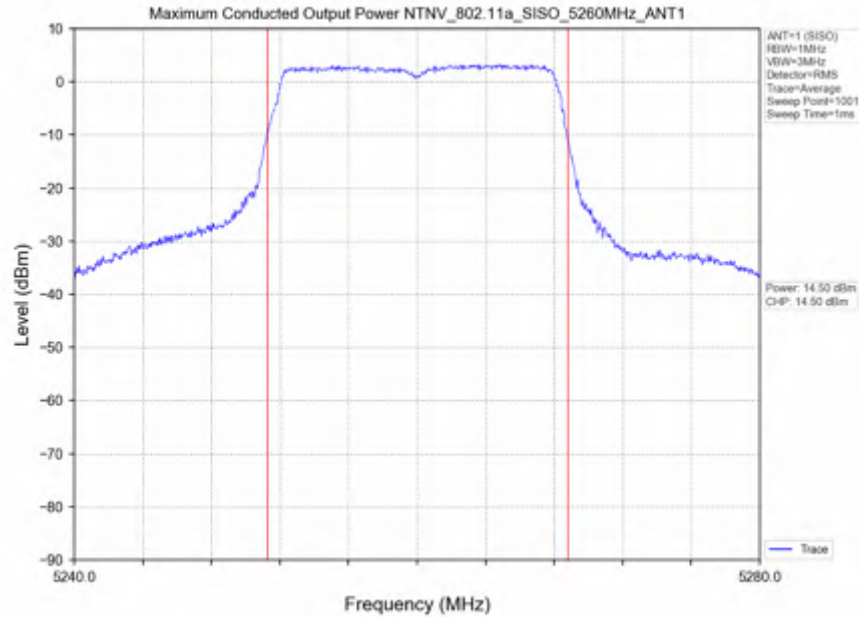
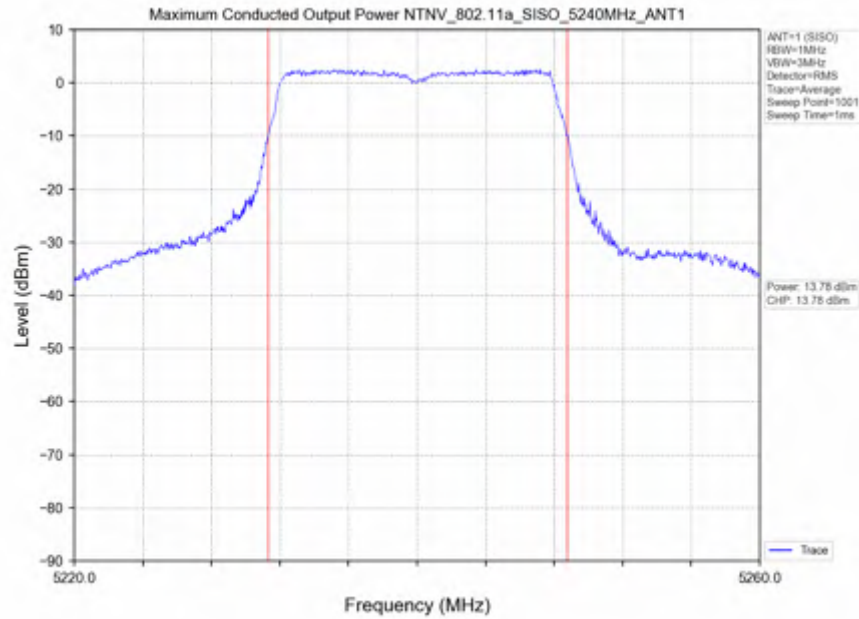
3.2 Test Graph



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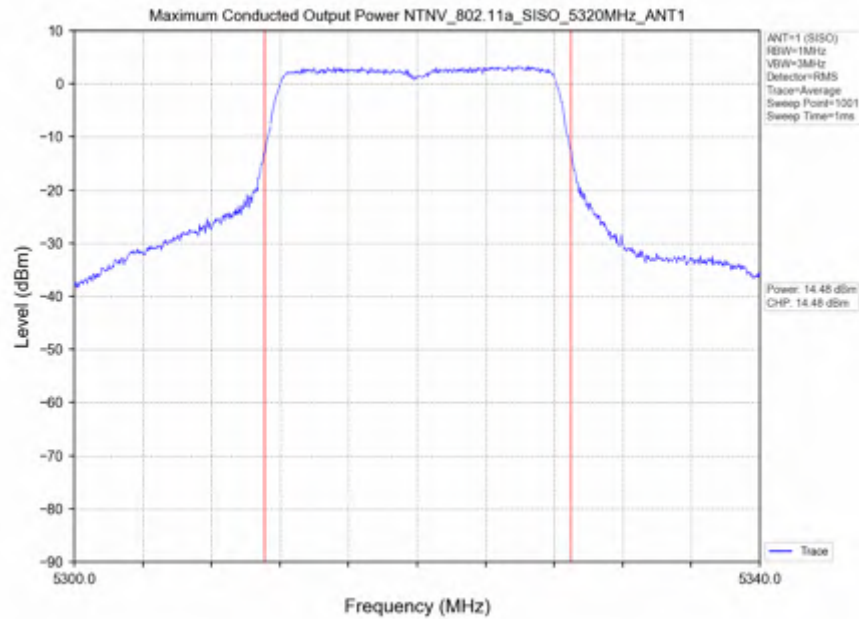
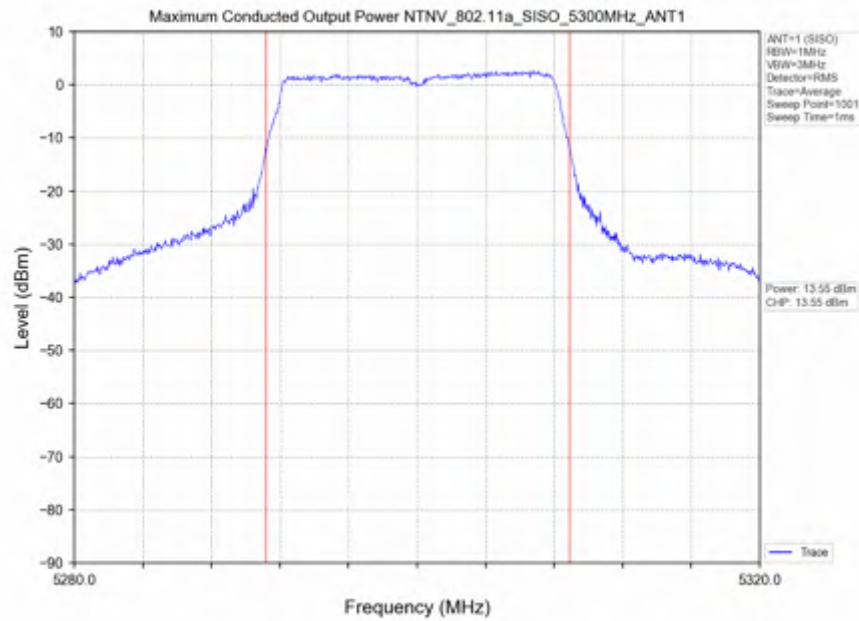
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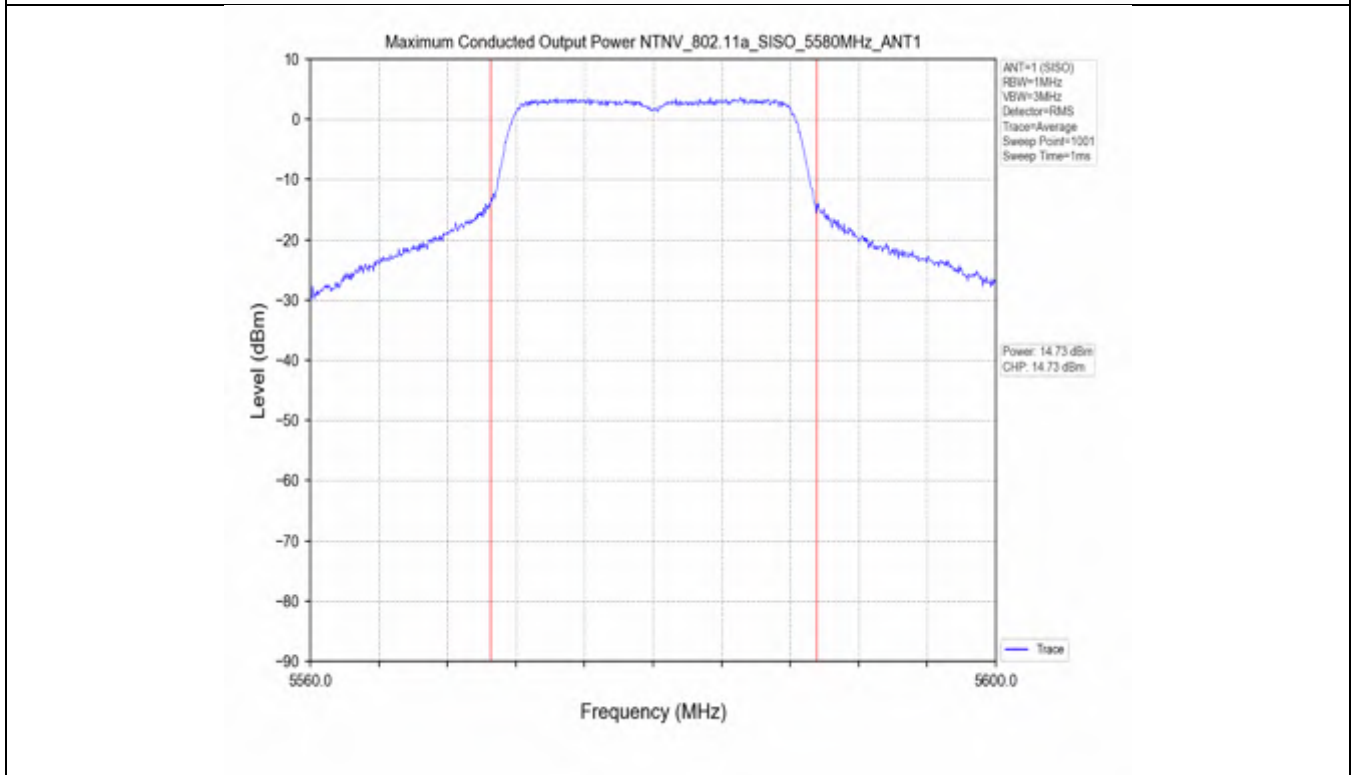
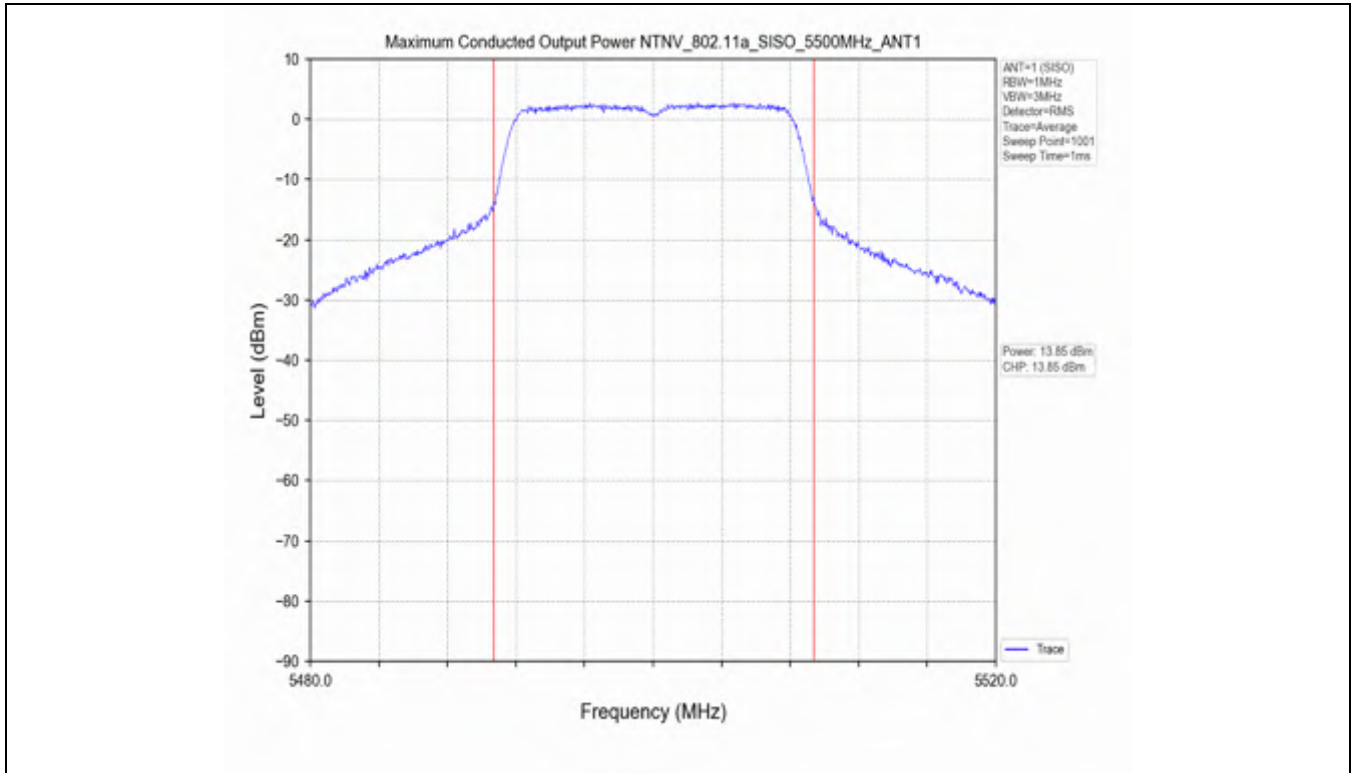
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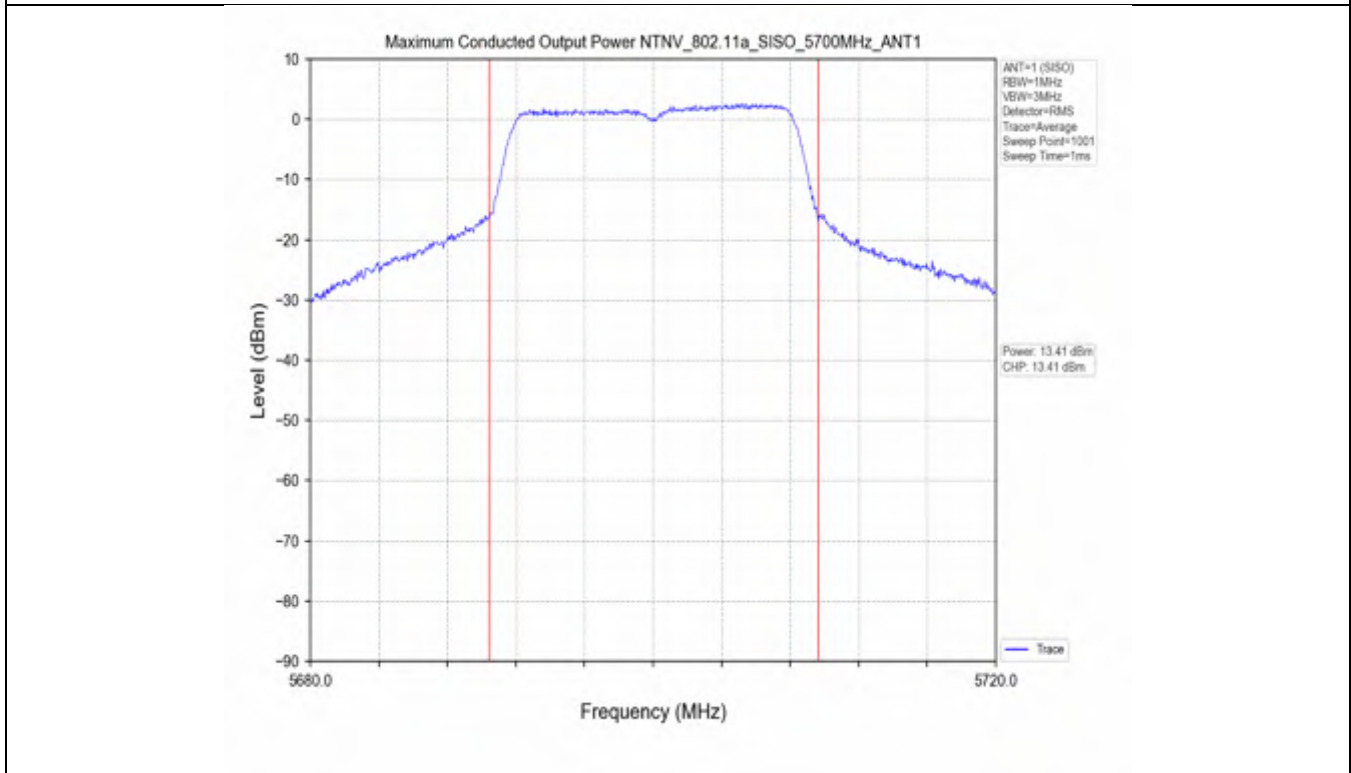
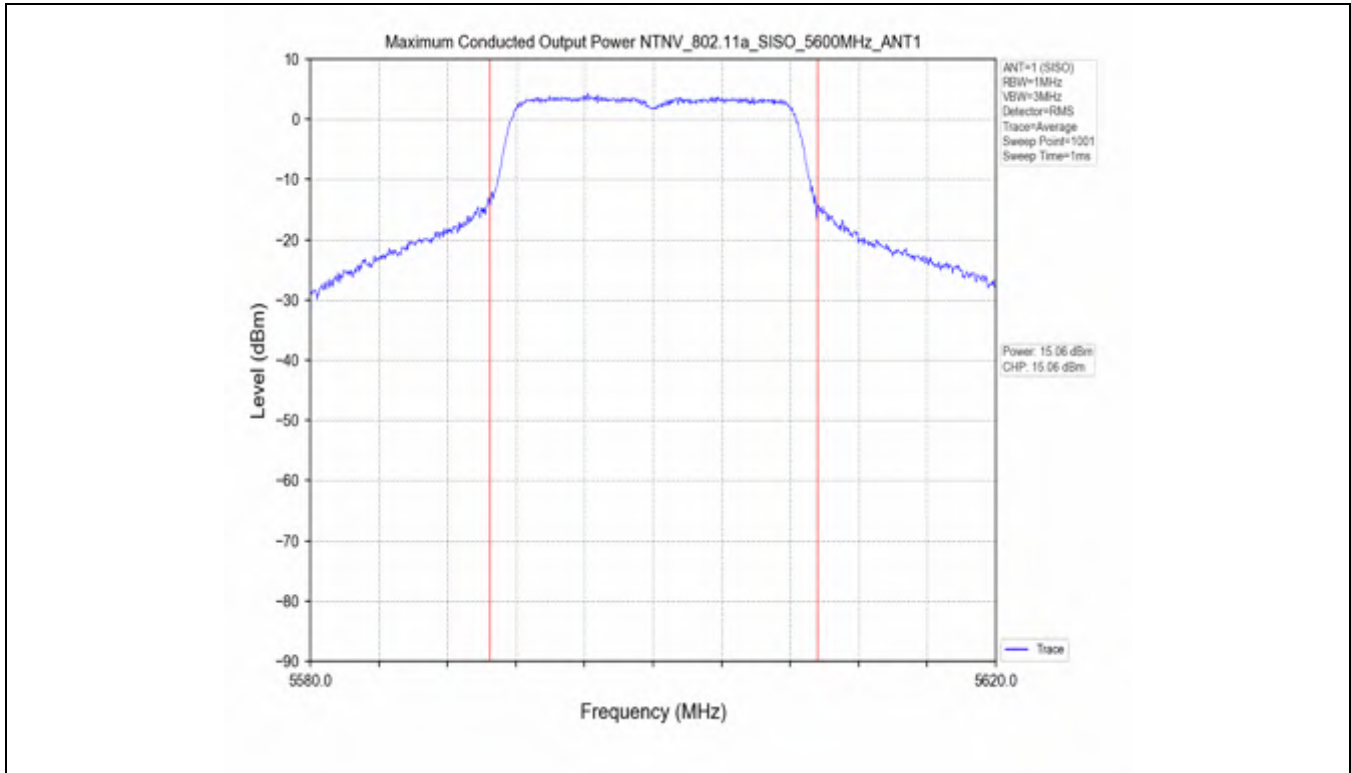


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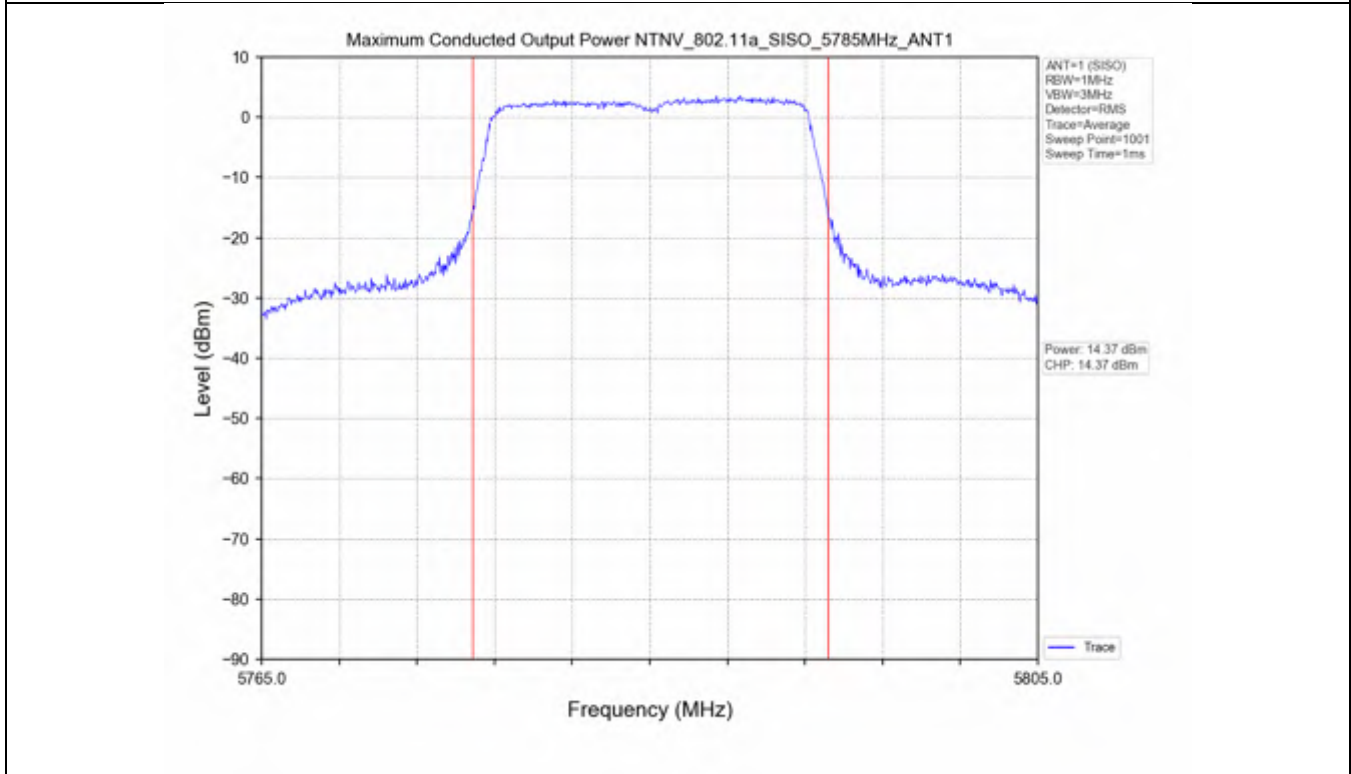
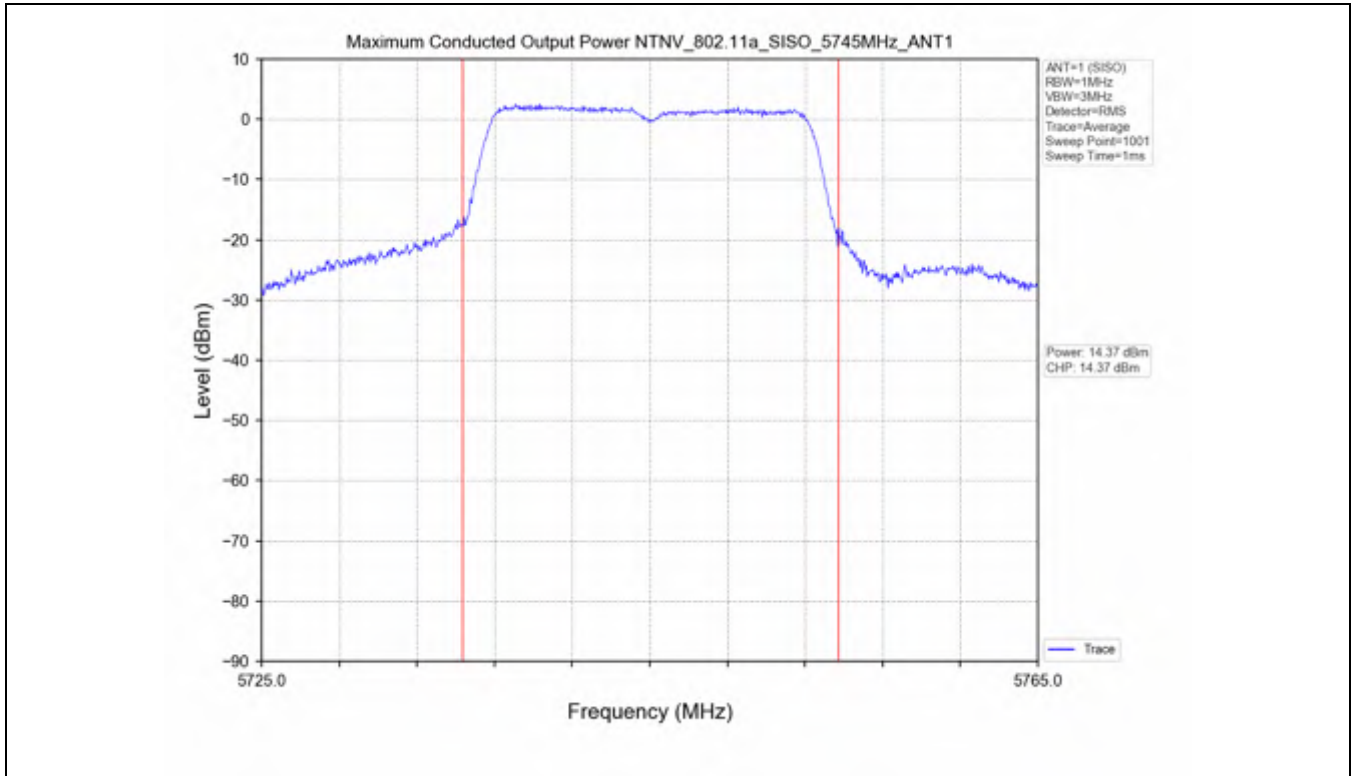
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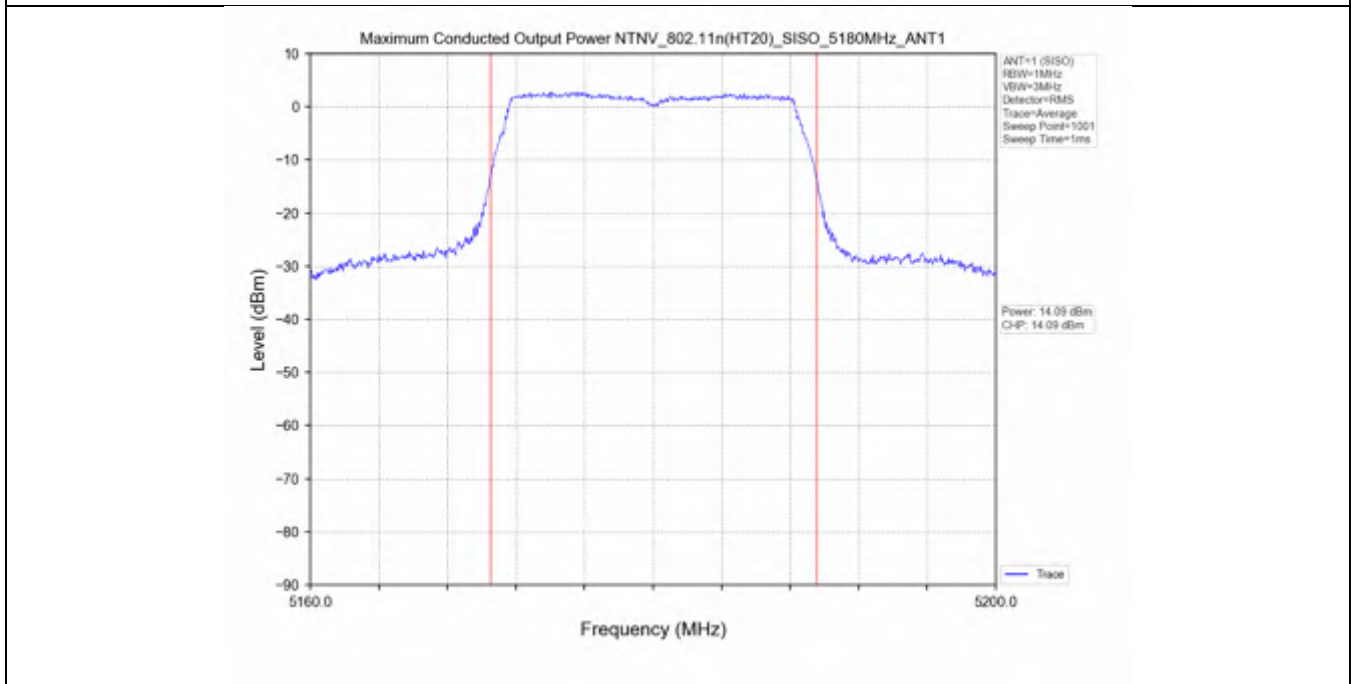
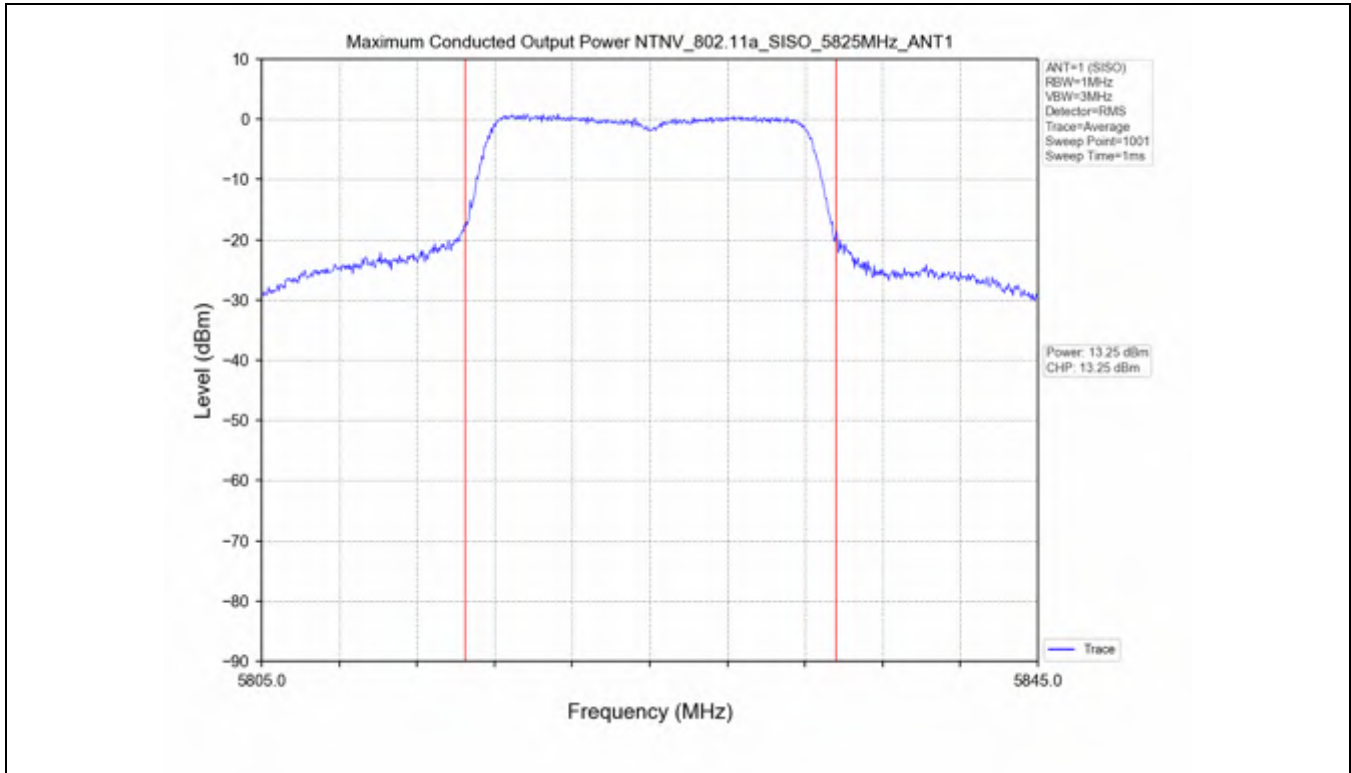
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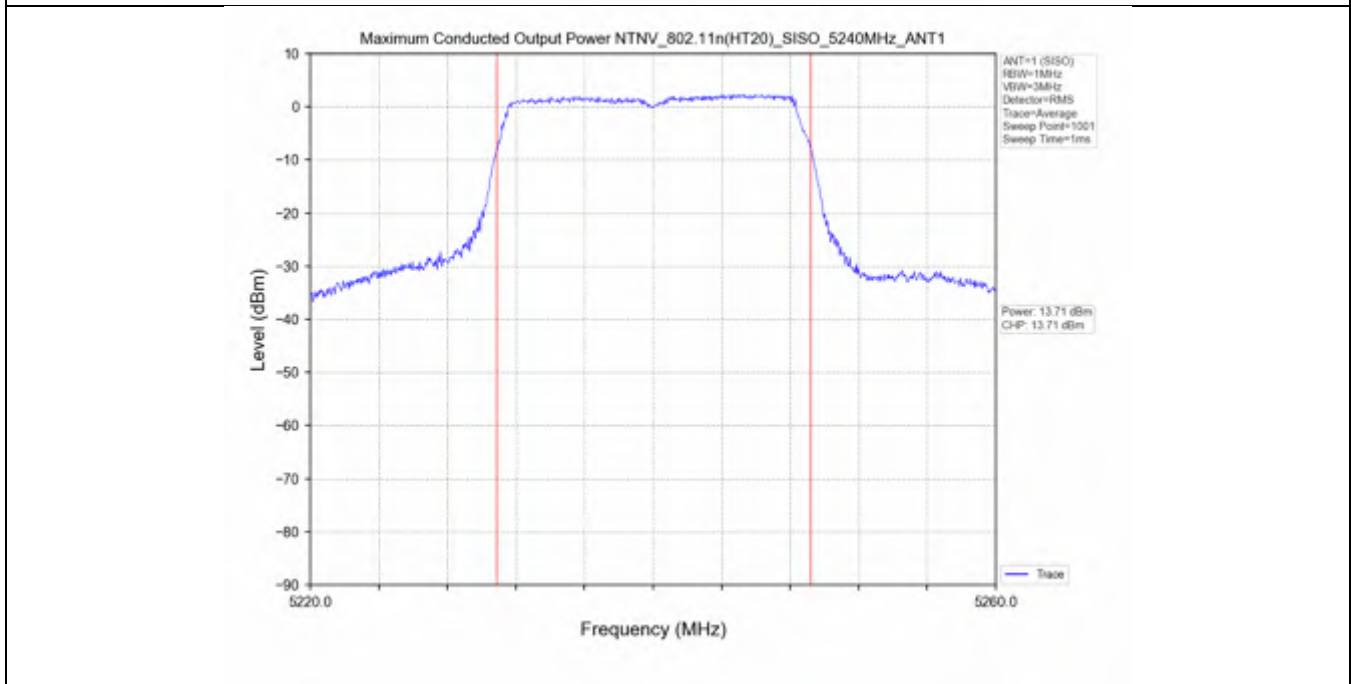
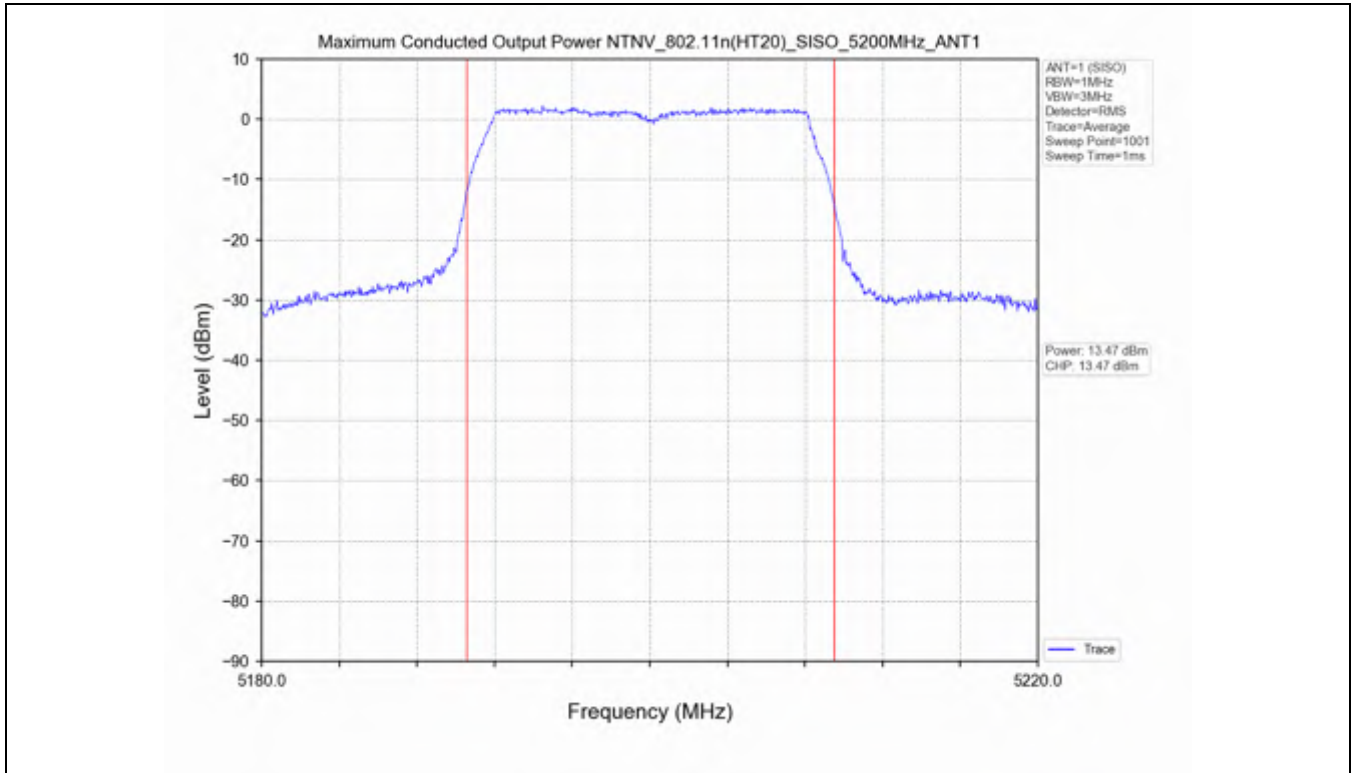
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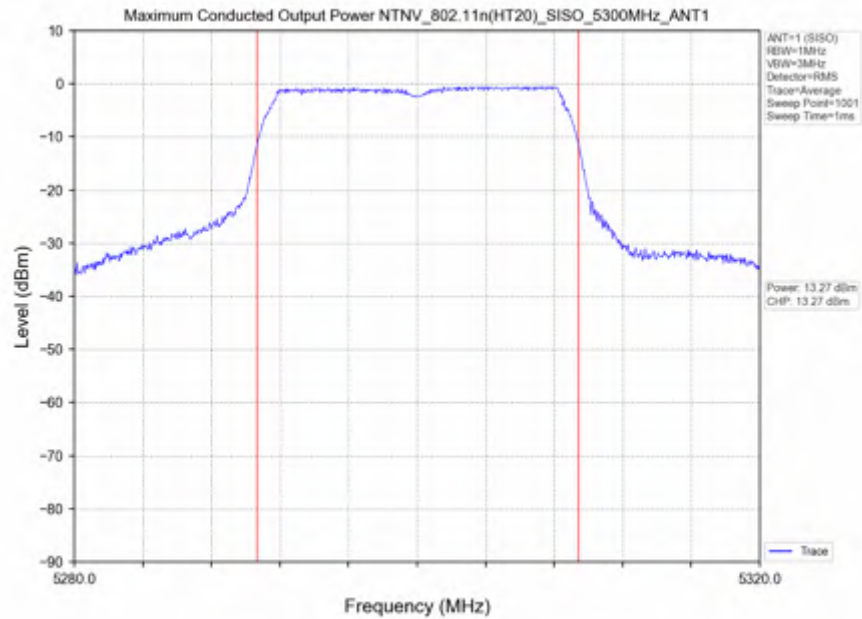
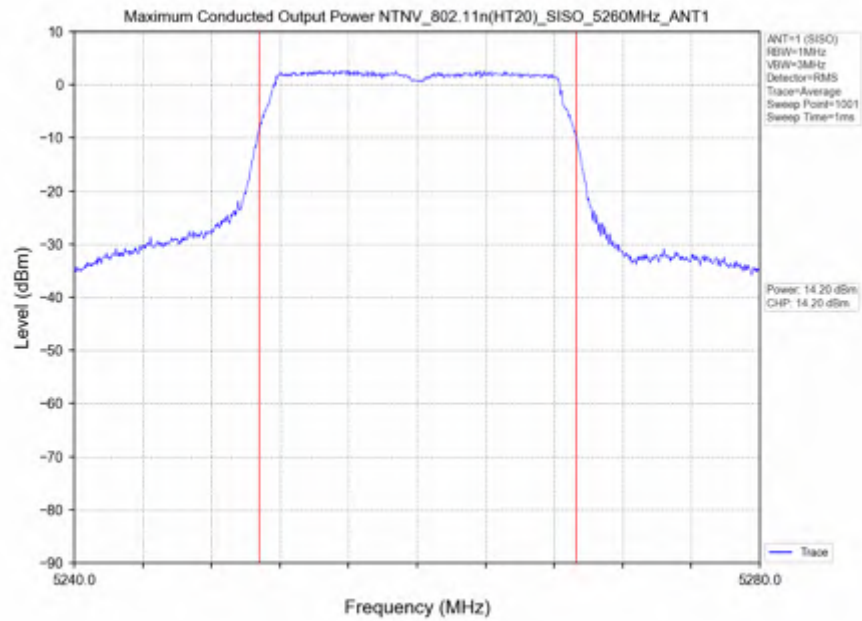


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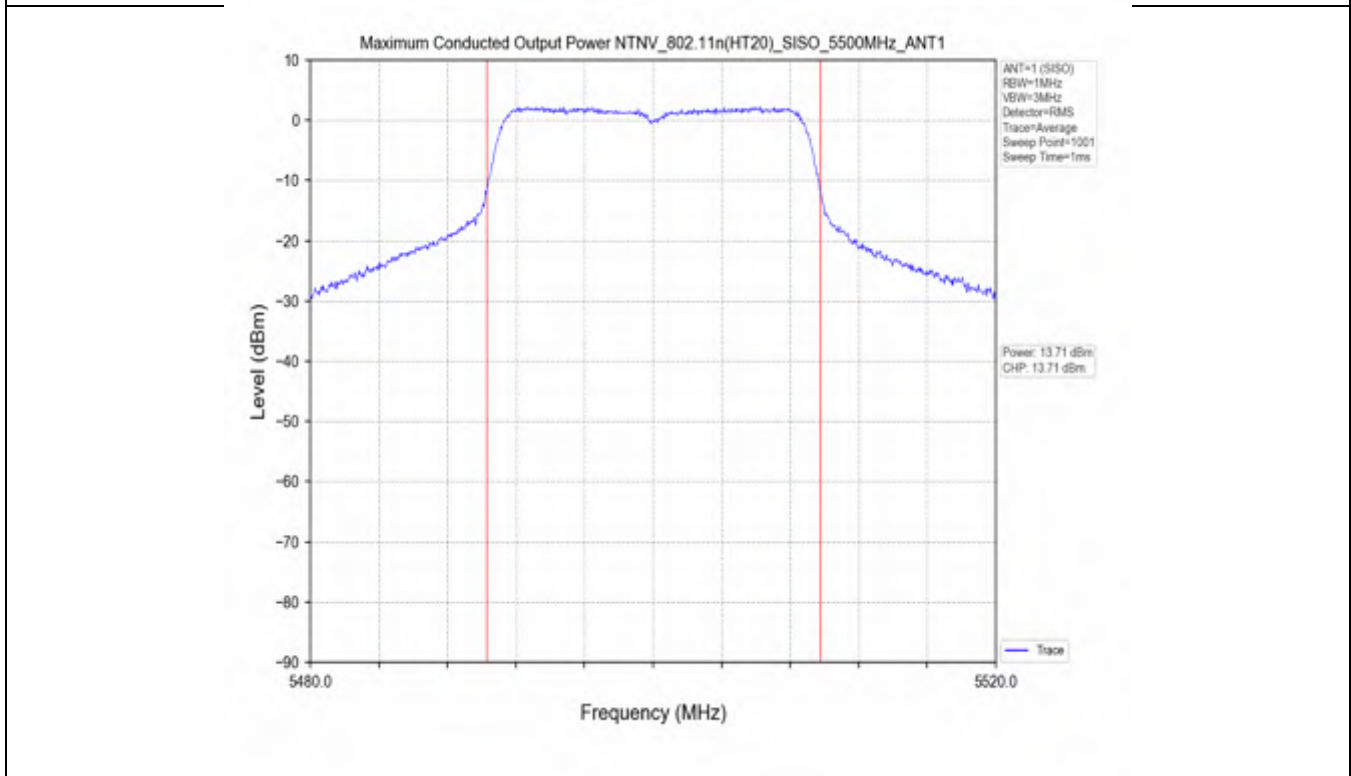
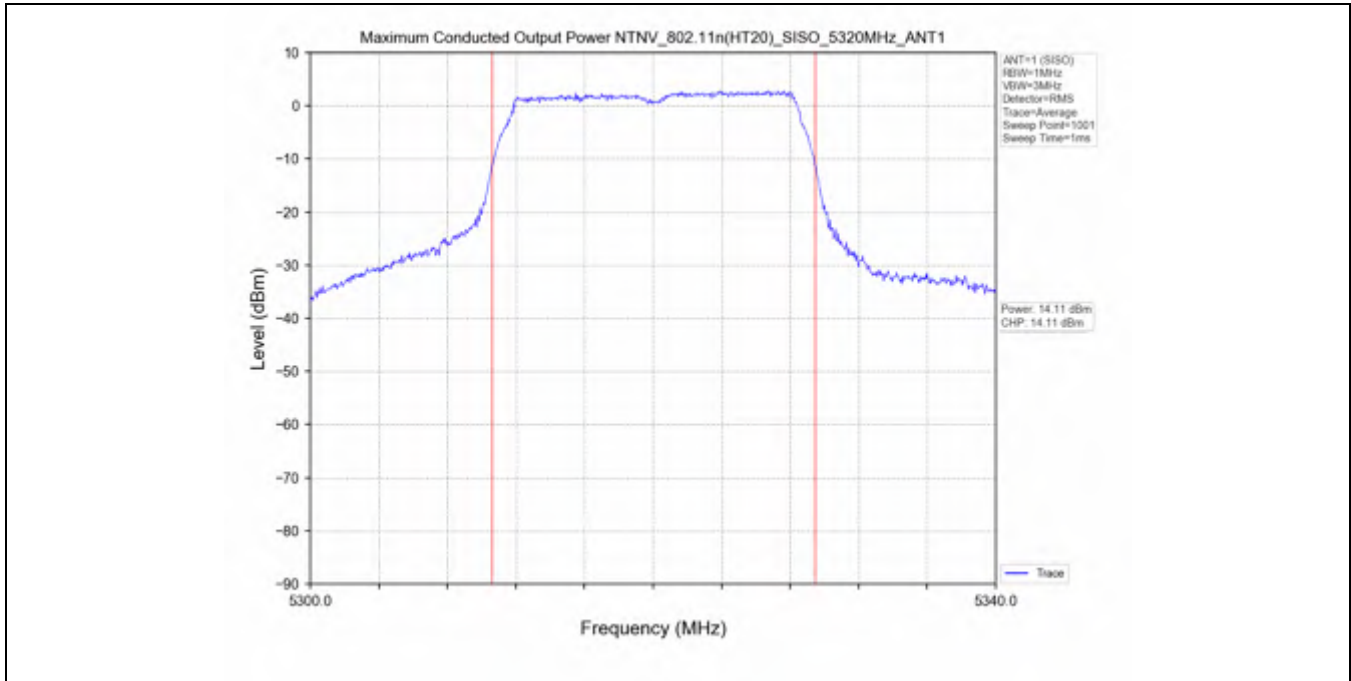
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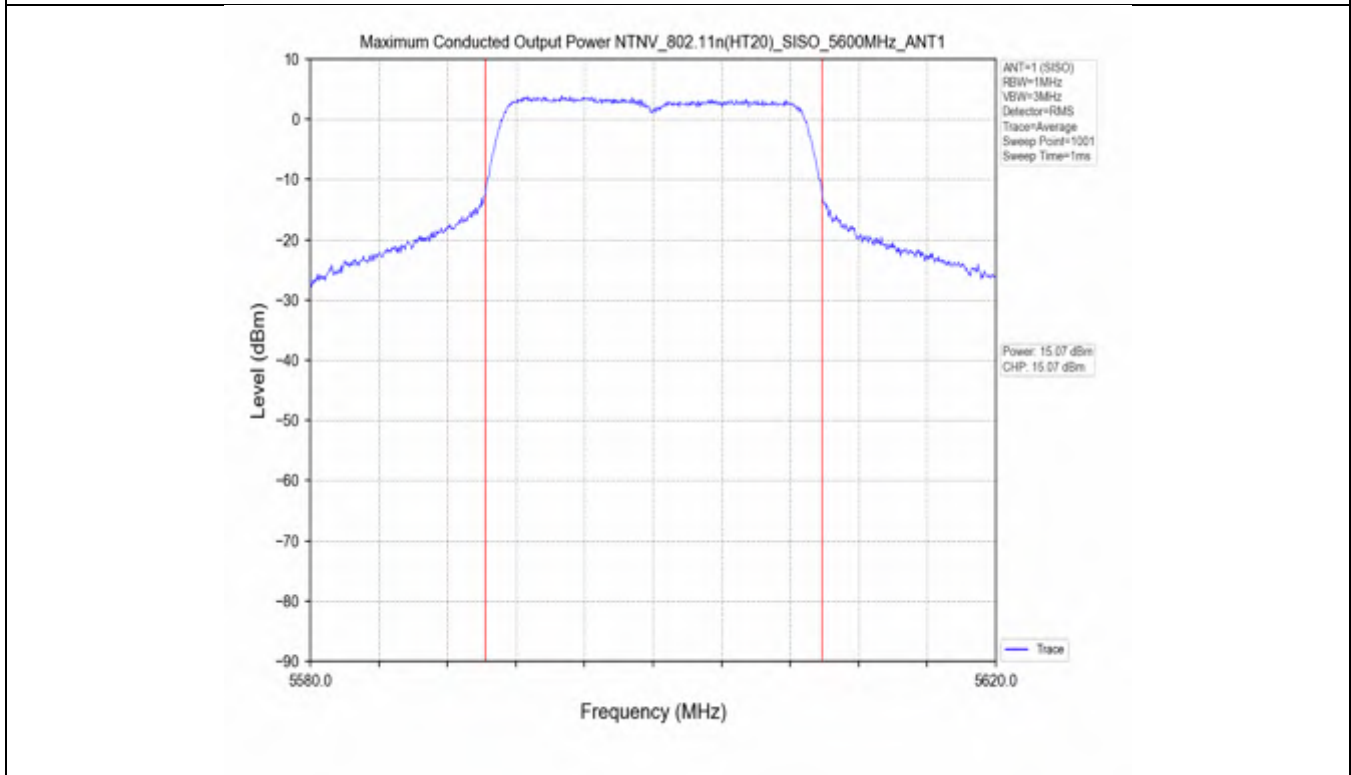
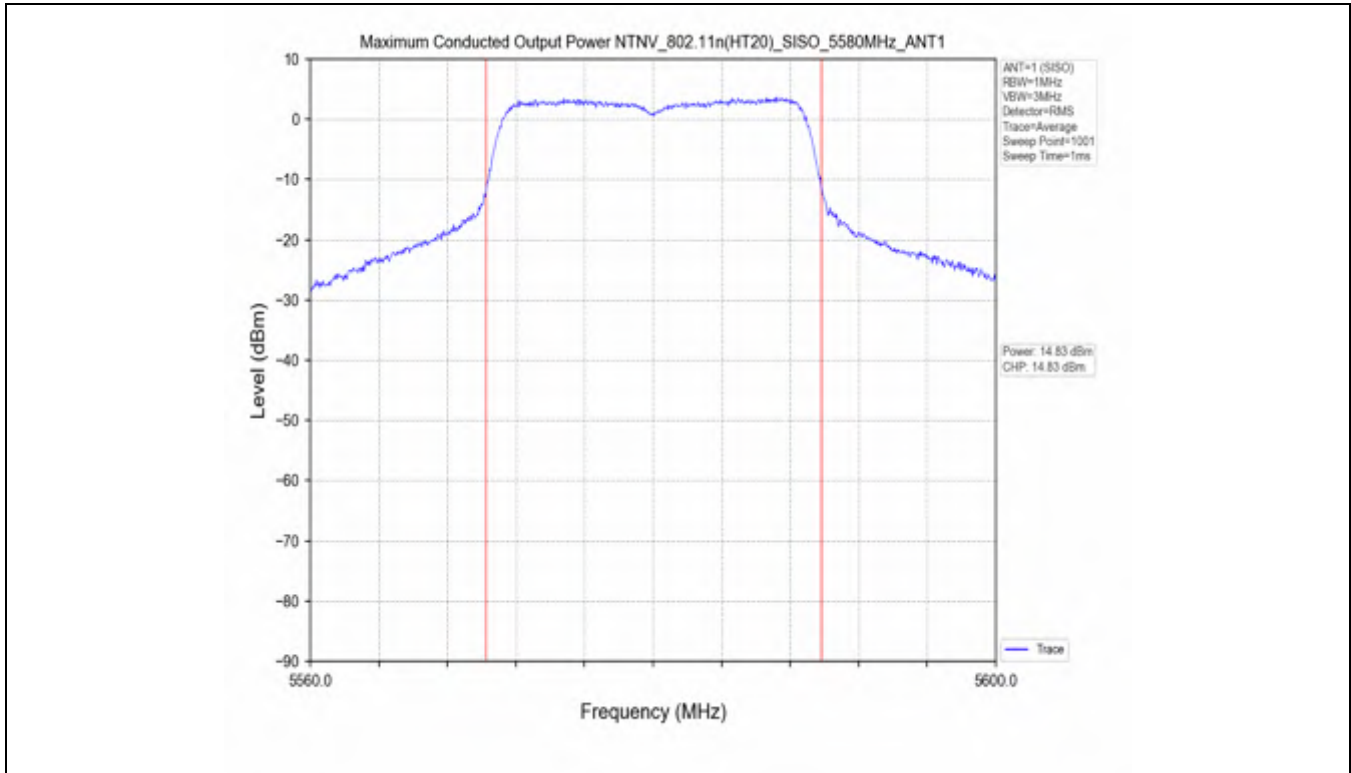
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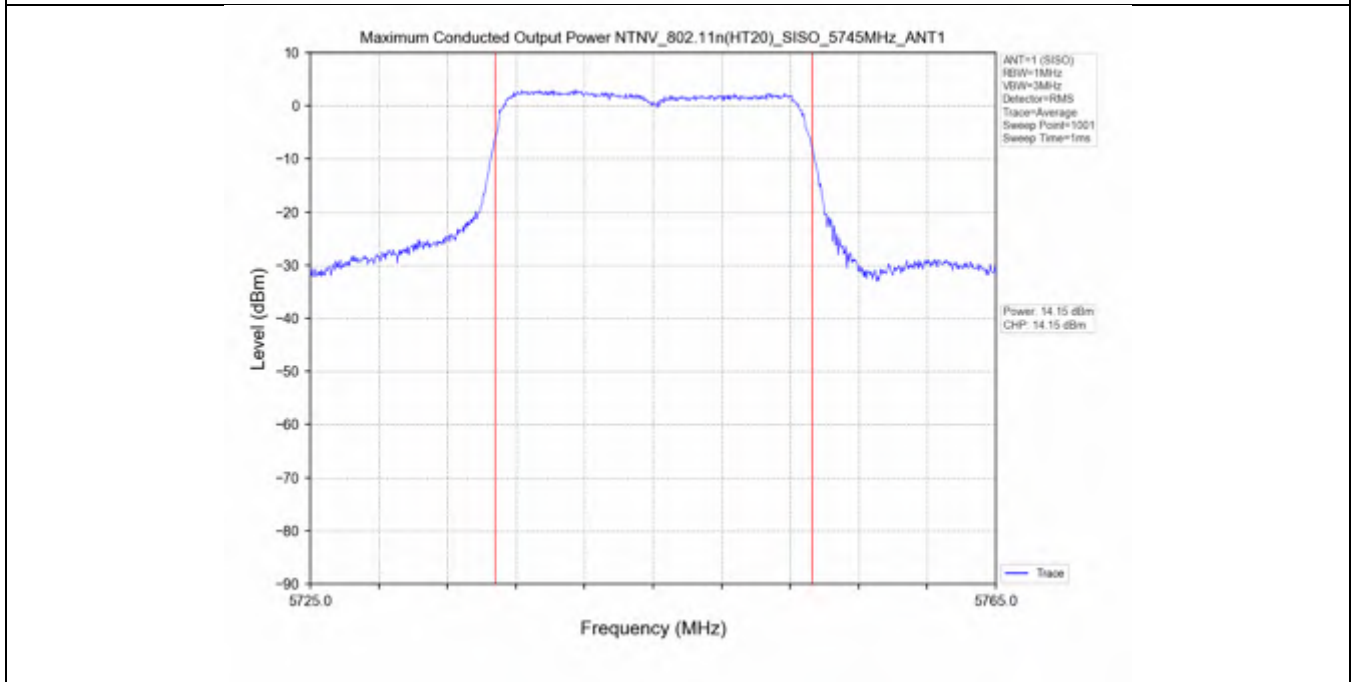
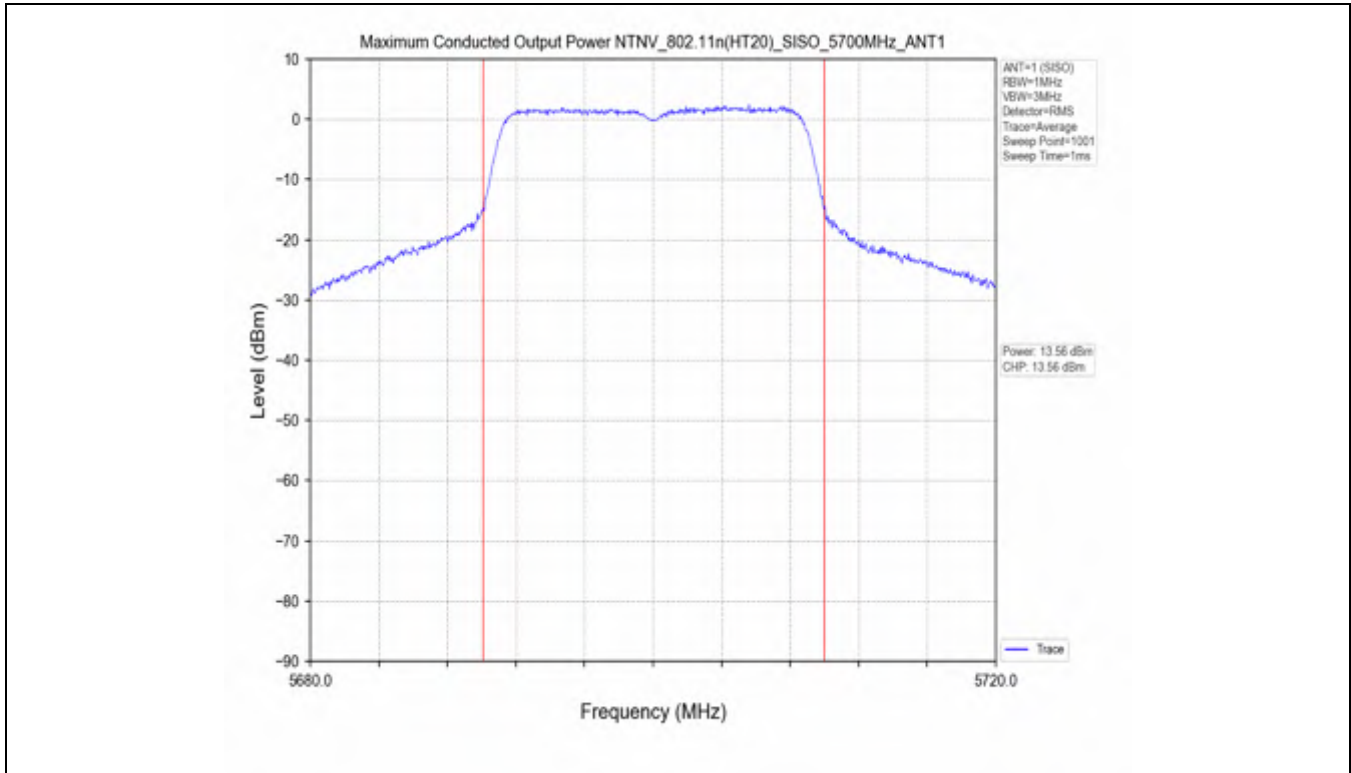
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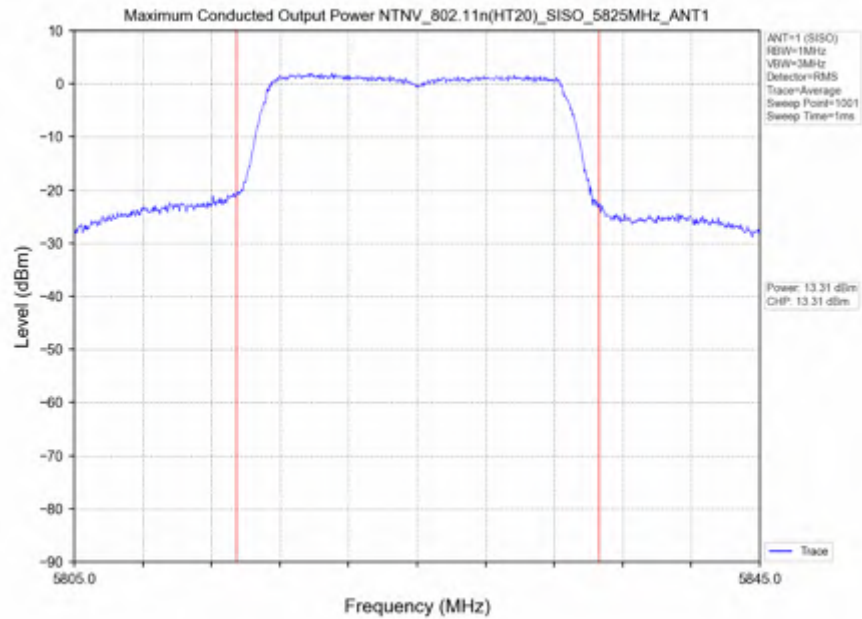
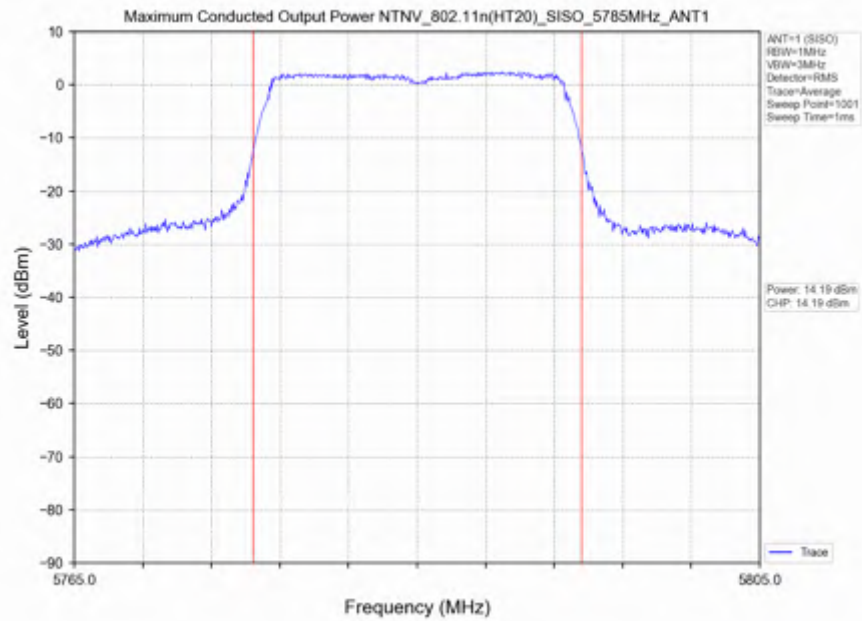
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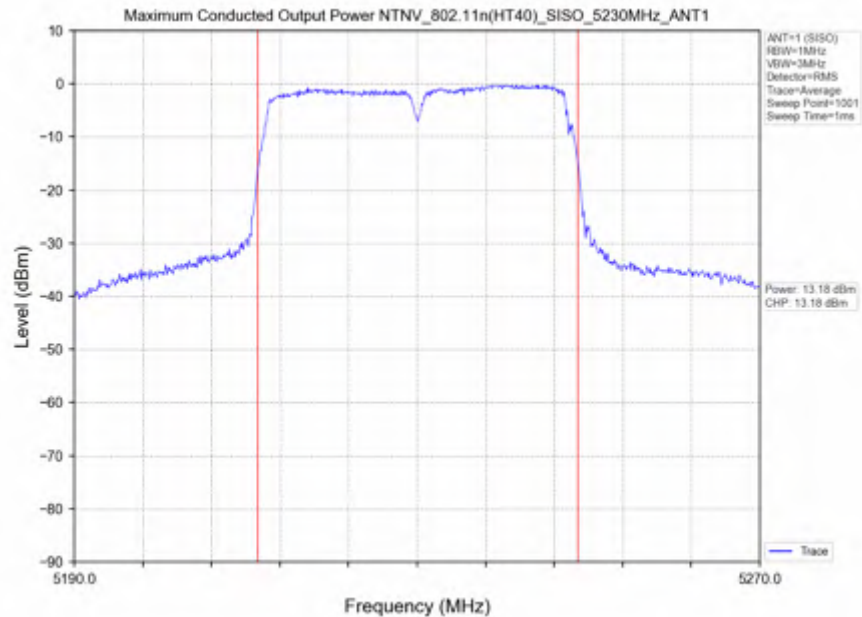
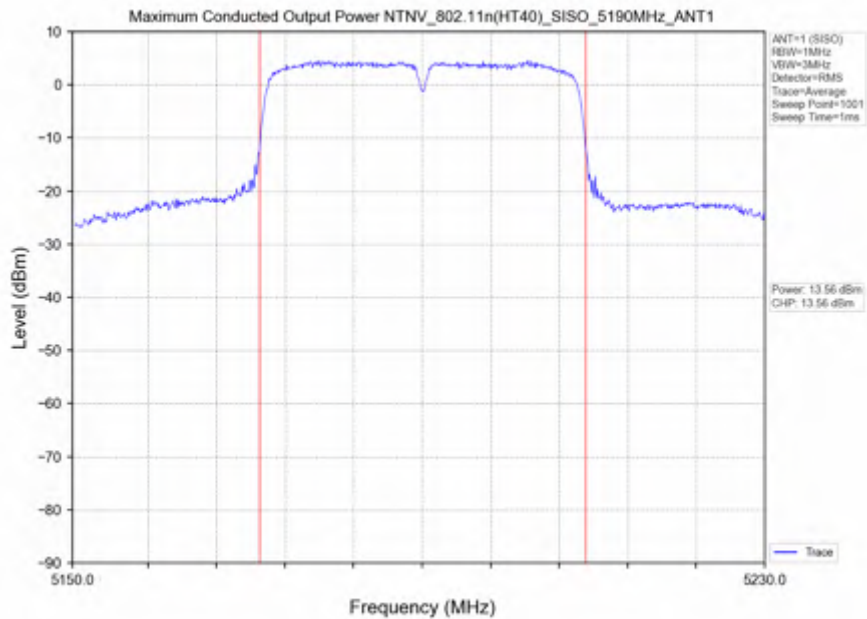
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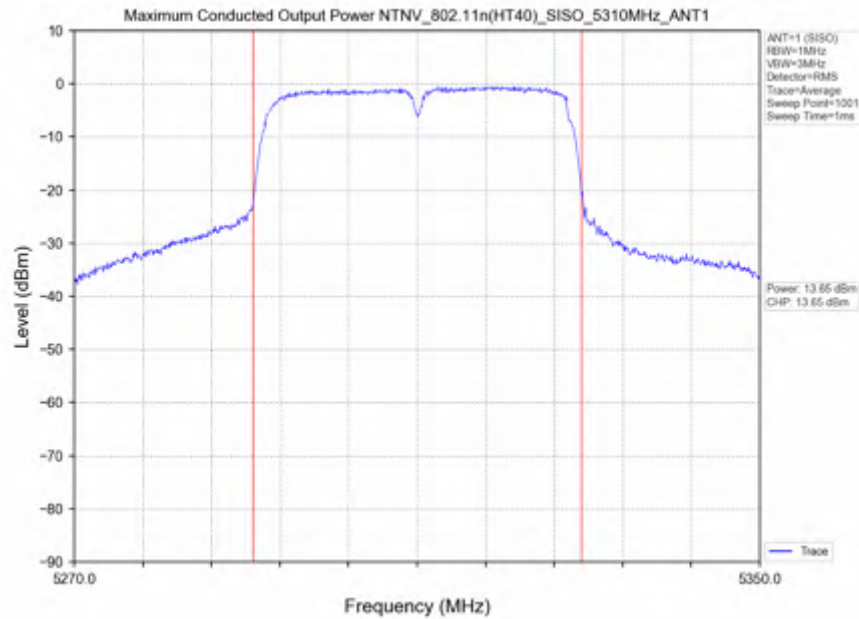
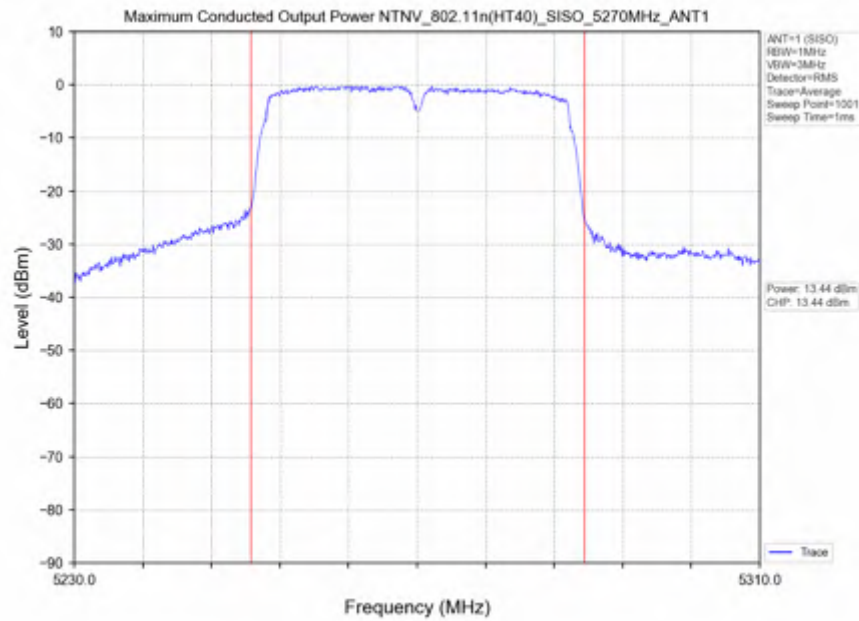
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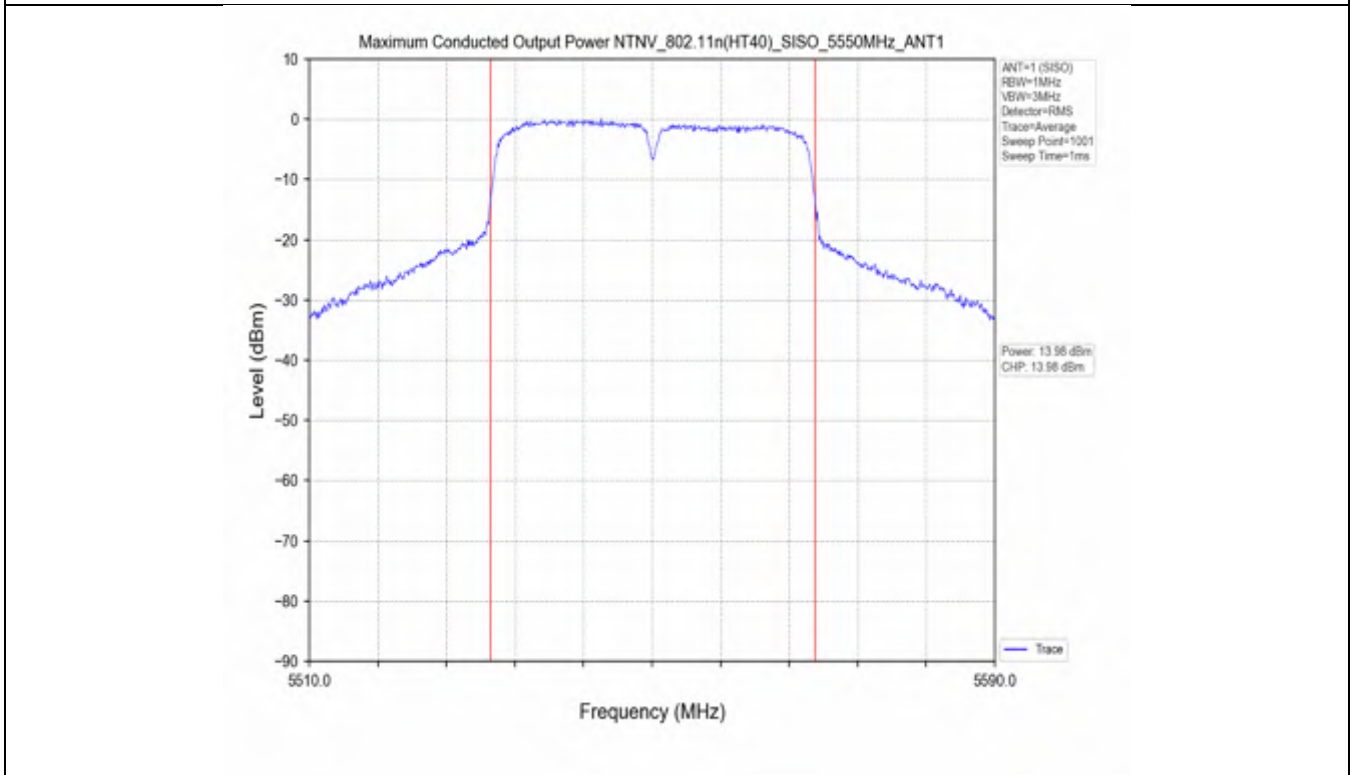
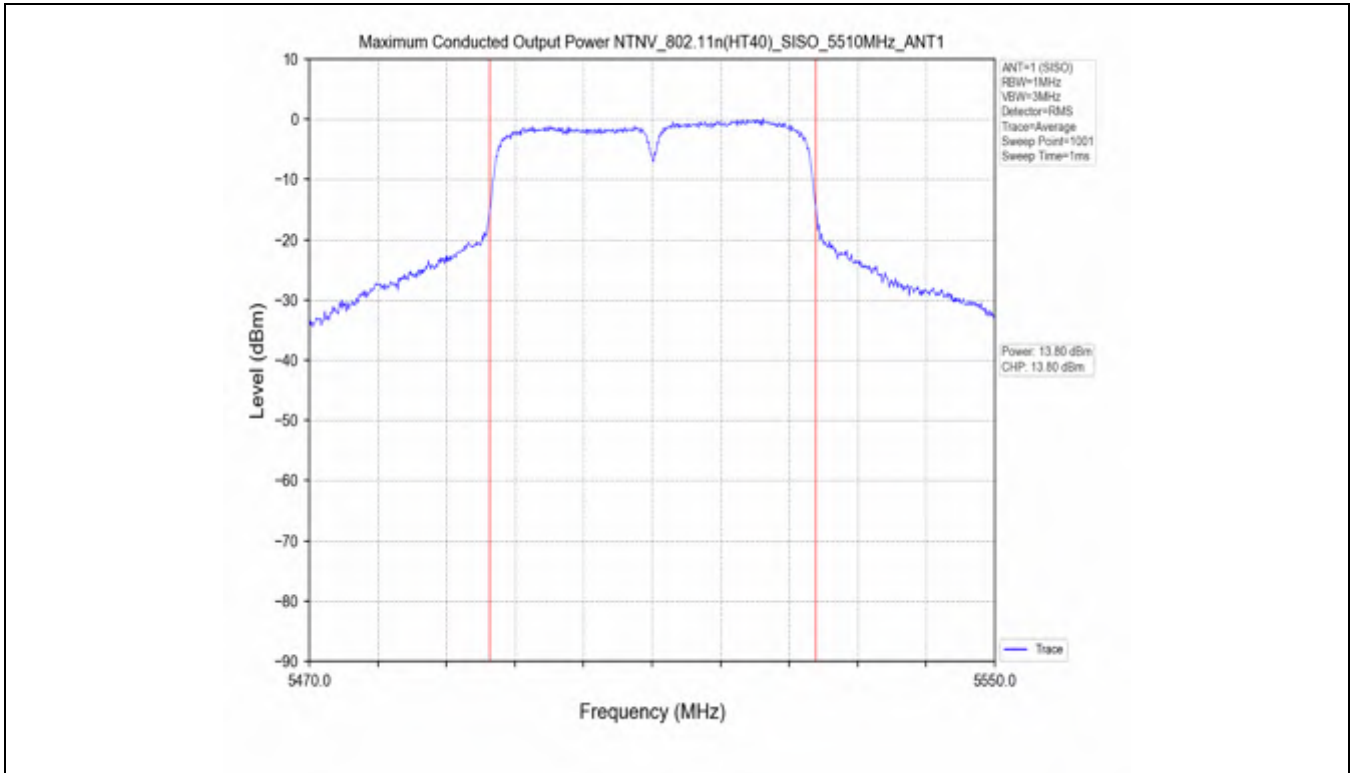
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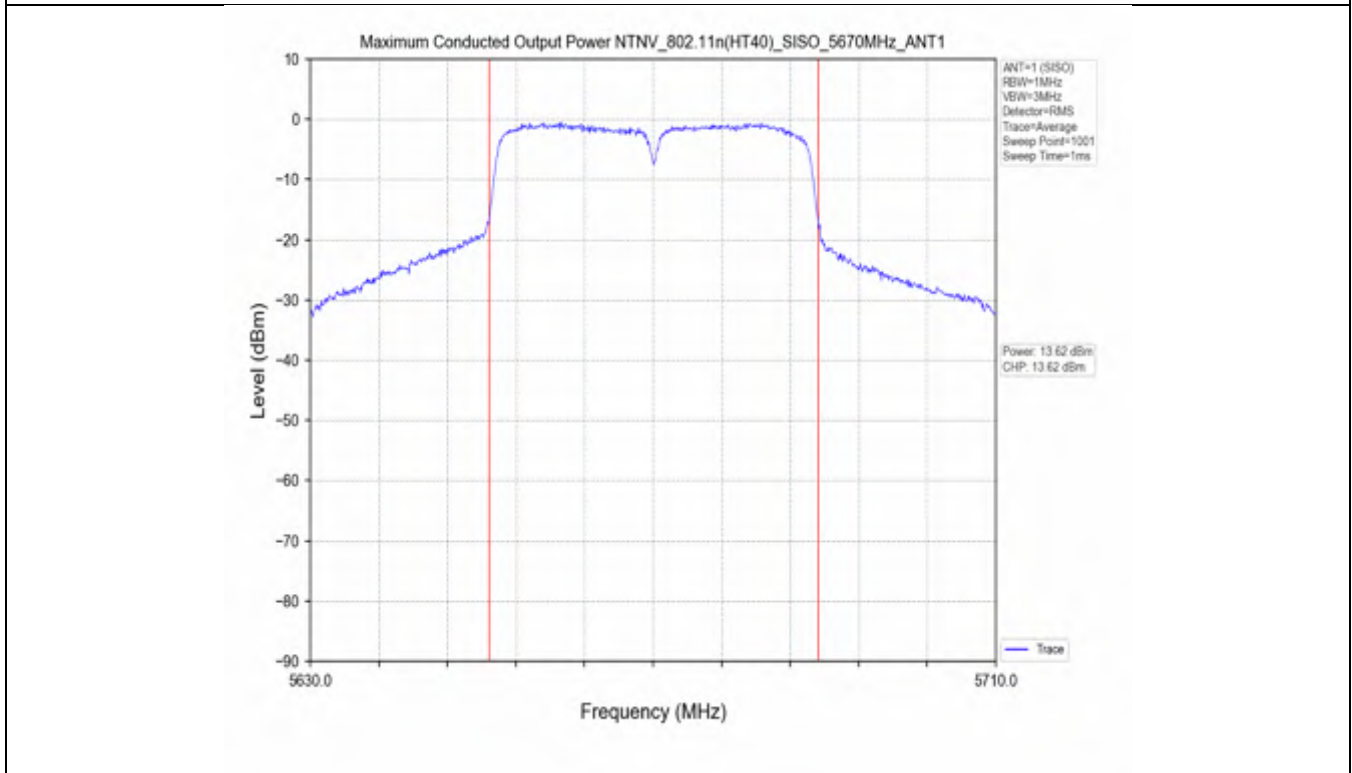
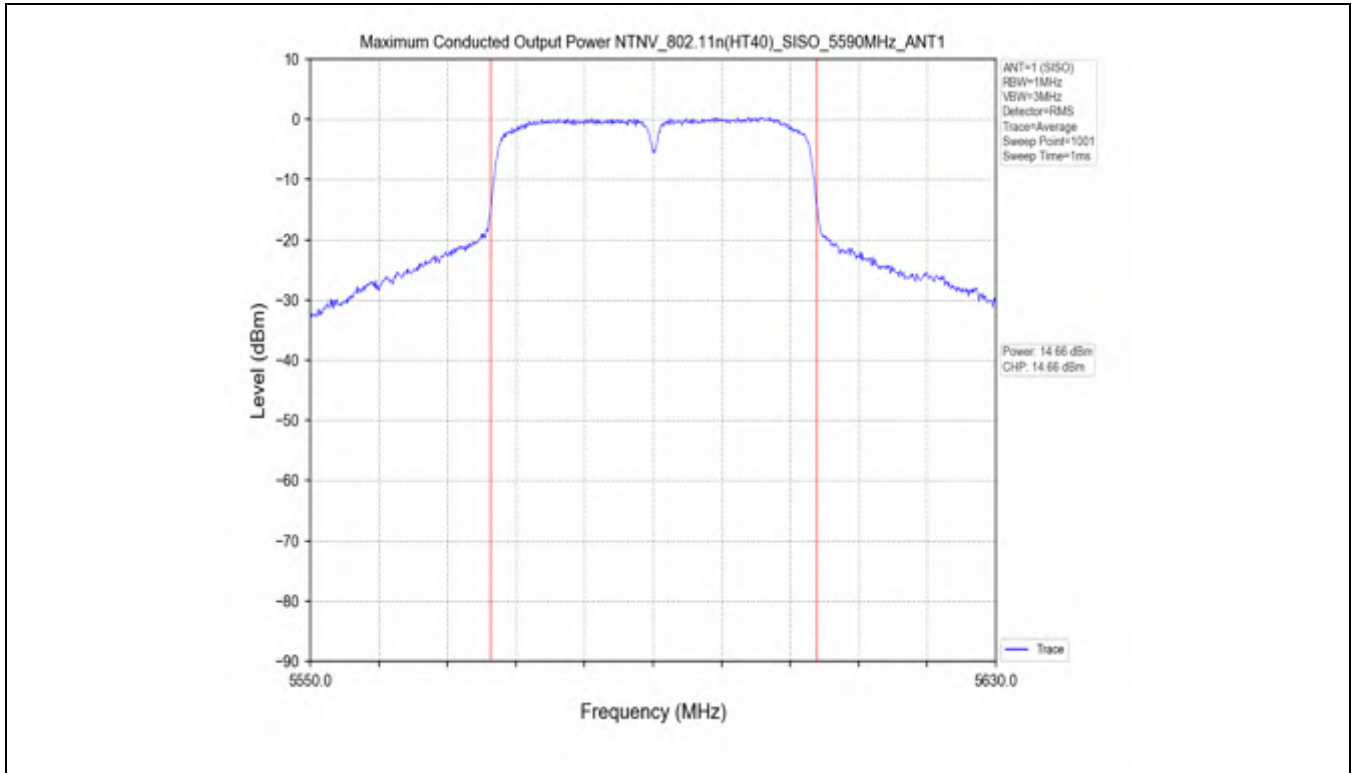
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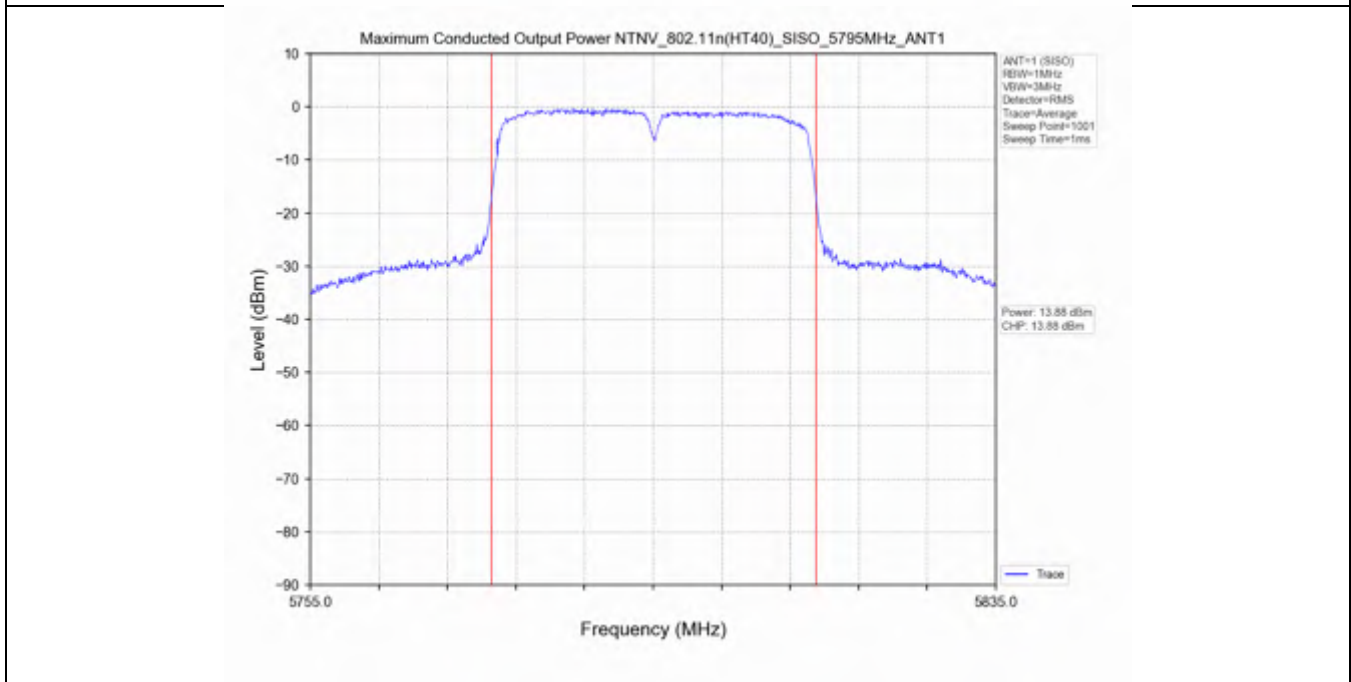
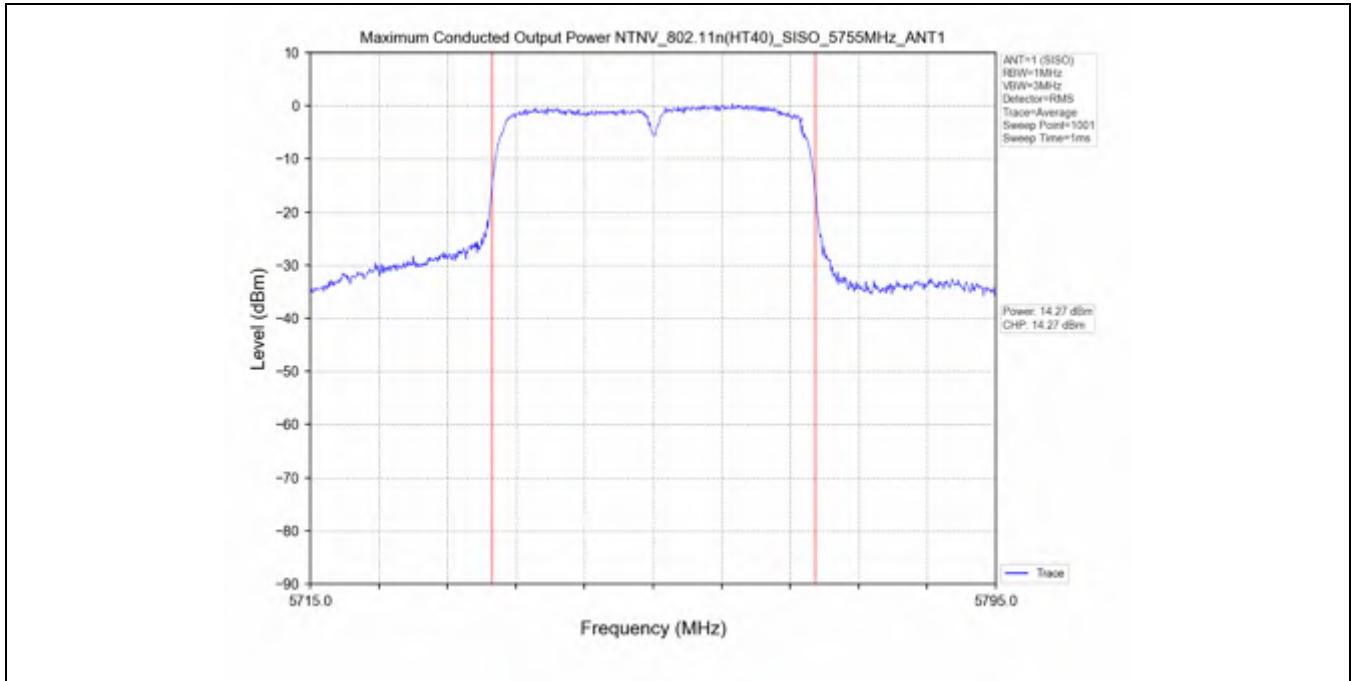
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4. Maximum Power Spectral Density (PSD)

4.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/MHz)	Limits (dBm/MHz)	Verdict
			Ant 1		
802.11a	5180	SISO	3.48	≤11	PASS
	5200	SISO	3.58	≤11	PASS
	5240	SISO	3.35	≤11	PASS
	5260	SISO	3.89	≤11	PASS
	5300	SISO	3.33	≤11	PASS
	5320	SISO	4.22	≤11	PASS
	5500	SISO	4.14	≤11	PASS
	5580	SISO	4.40	≤11	PASS
	5600	SISO	4.47	≤11	PASS
802.11n(HT20)	5700	SISO	2.93	≤11	PASS
	5180	SISO	3.37	≤11	PASS
	5200	SISO	3.36	≤11	PASS
	5240	SISO	2.71	≤11	PASS
	5260	SISO	3.06	≤11	PASS
	5300	SISO	3.29	≤11	PASS
	5320	SISO	2.59	≤11	PASS
	5500	SISO	3.74	≤11	PASS
	5580	SISO	4.26	≤11	PASS
802.11n(HT40)	5600	SISO	4.63	≤11	PASS
	5700	SISO	2.90	≤11	PASS
	5190	SISO	0.37	≤11	PASS
	5230	SISO	-0.12	≤11	PASS
	5270	SISO	0.93	≤11	PASS
	5310	SISO	1.24	≤11	PASS
	5510	SISO	1.45	≤11	PASS
	5550	SISO	2.16	≤11	PASS
5590	SISO	2.17	≤11	PASS	
	5670	SISO	0.13	≤11	PASS



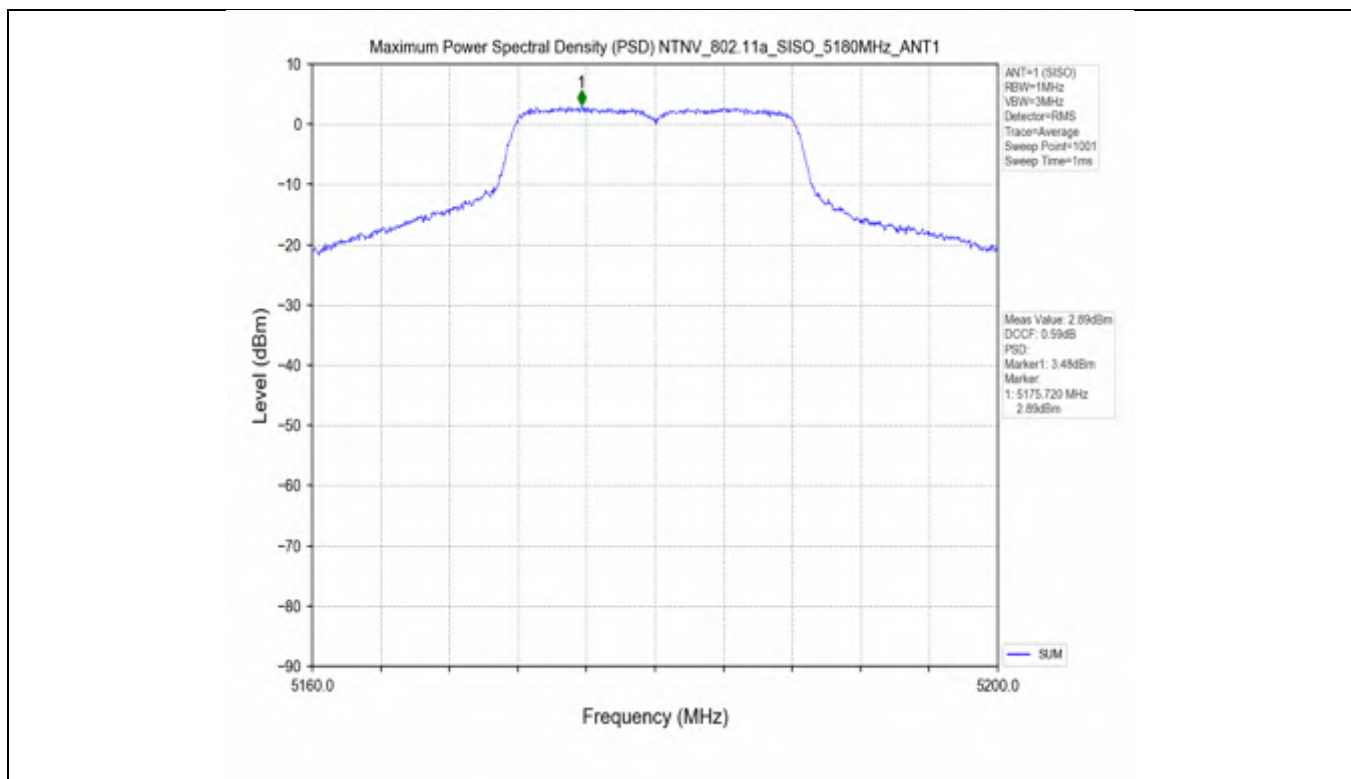
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Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/500kHz)	Limits (dBm/500kHz)	Verdict
			Ant 1		
802.11a	5745	SISO	0.69	≤30	PASS
	5785	SISO	1.01	≤30	PASS
	5825	SISO	0.21	≤30	PASS
802.11n(HT20)	5745	SISO	1.13	≤30	PASS
	5785	SISO	0.82	≤30	PASS
	5825	SISO	-0.28	≤30	PASS
802.11n(HT40)	5755	SISO	-1.86	≤30	PASS
	5795	SISO	-0.97	≤30	PASS

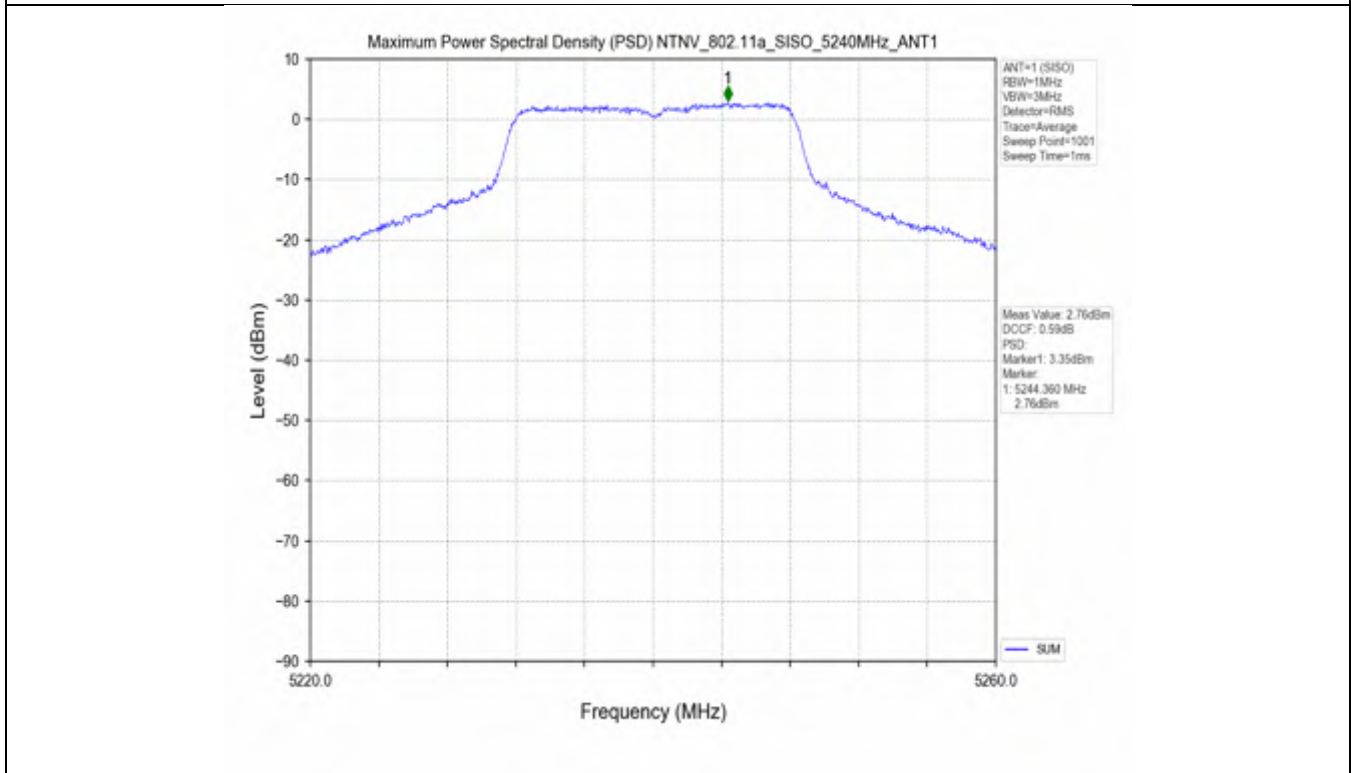
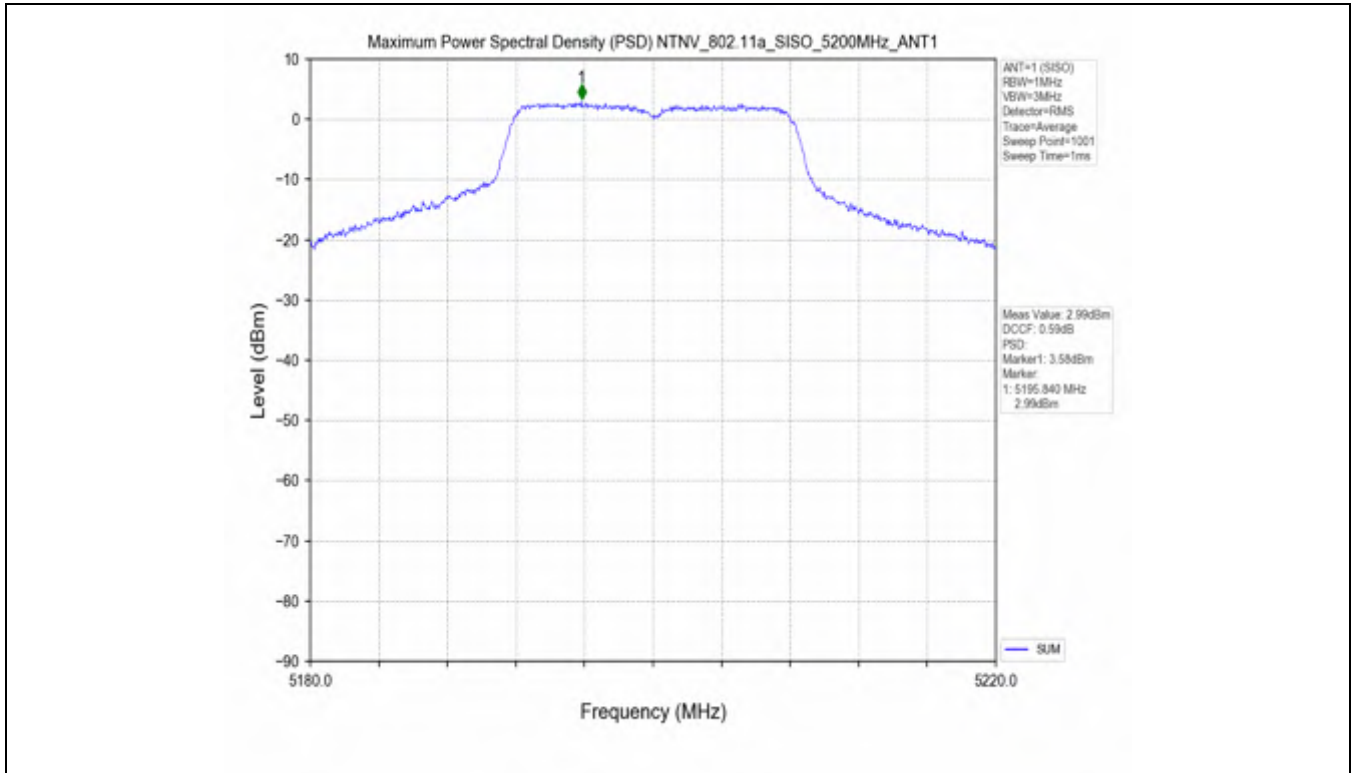
4.2 Test Graph



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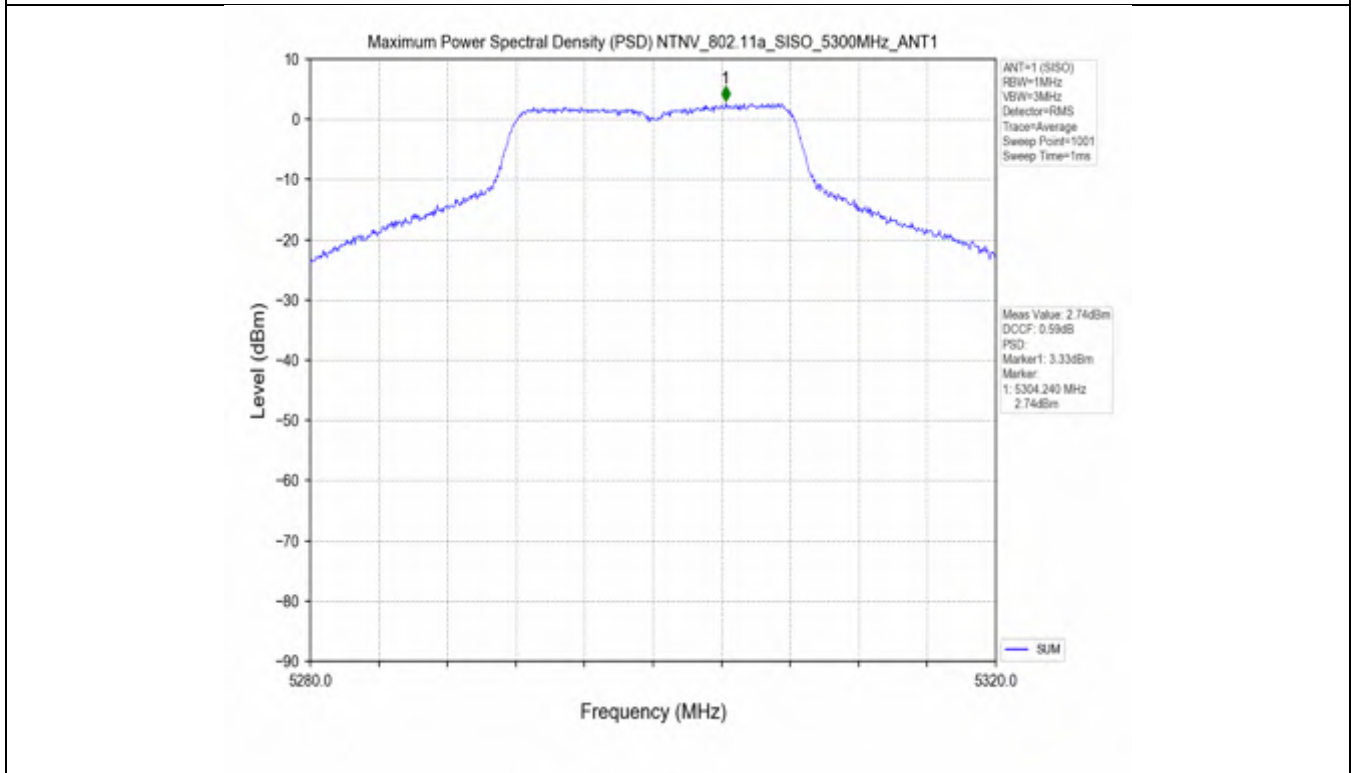
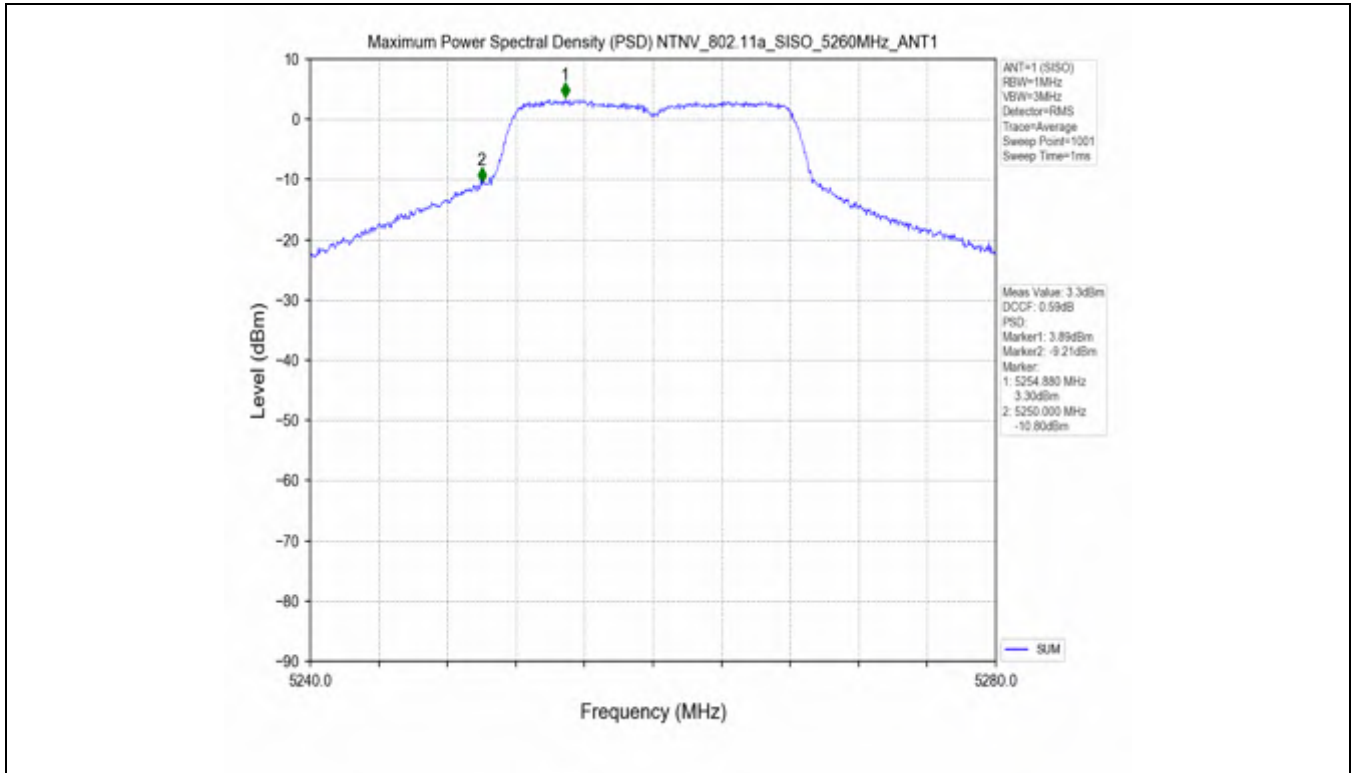
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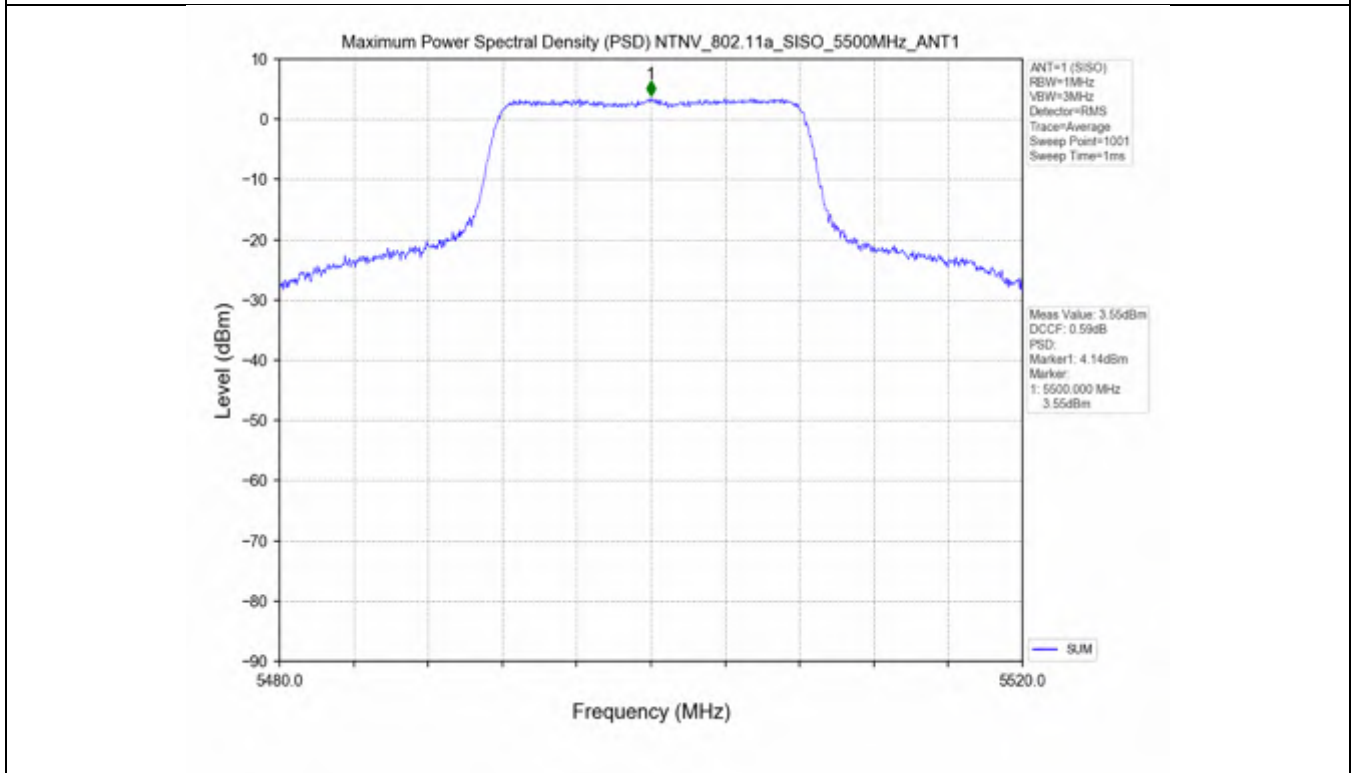
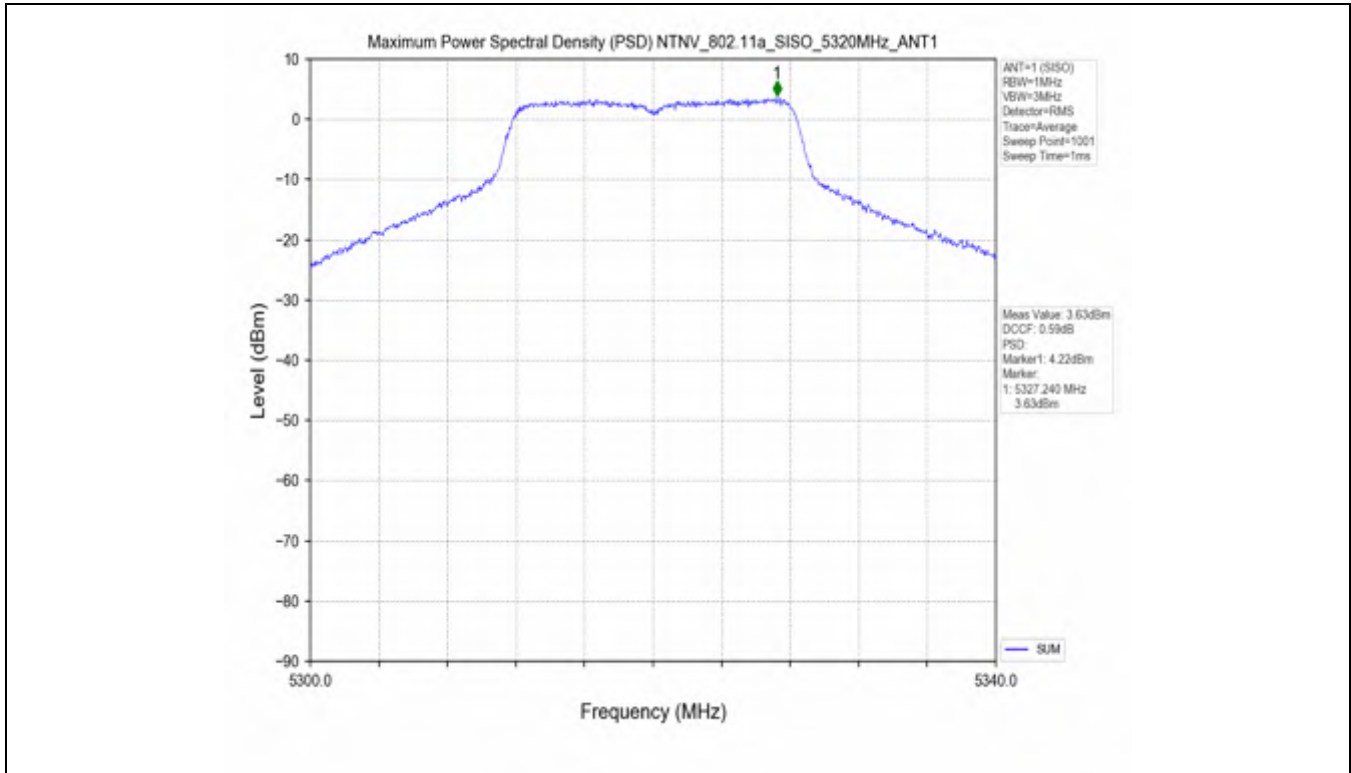
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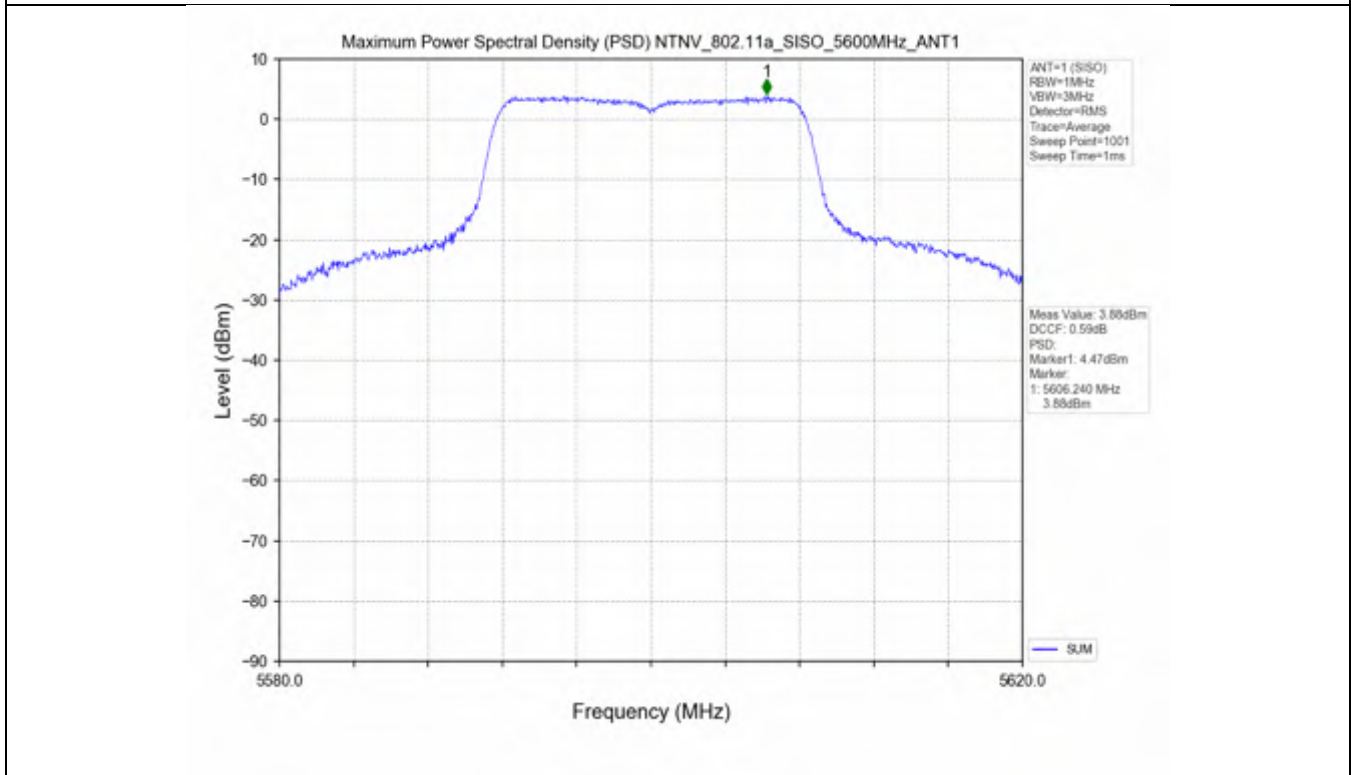
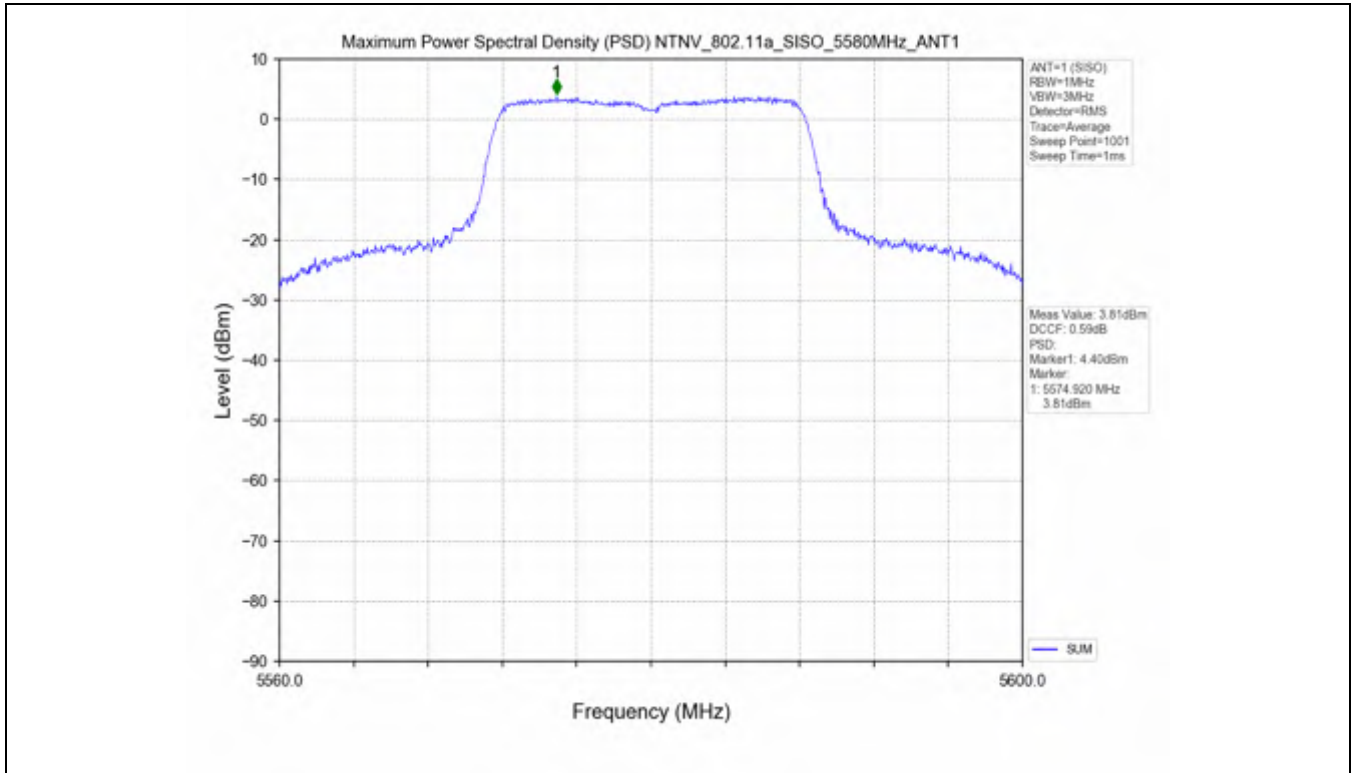
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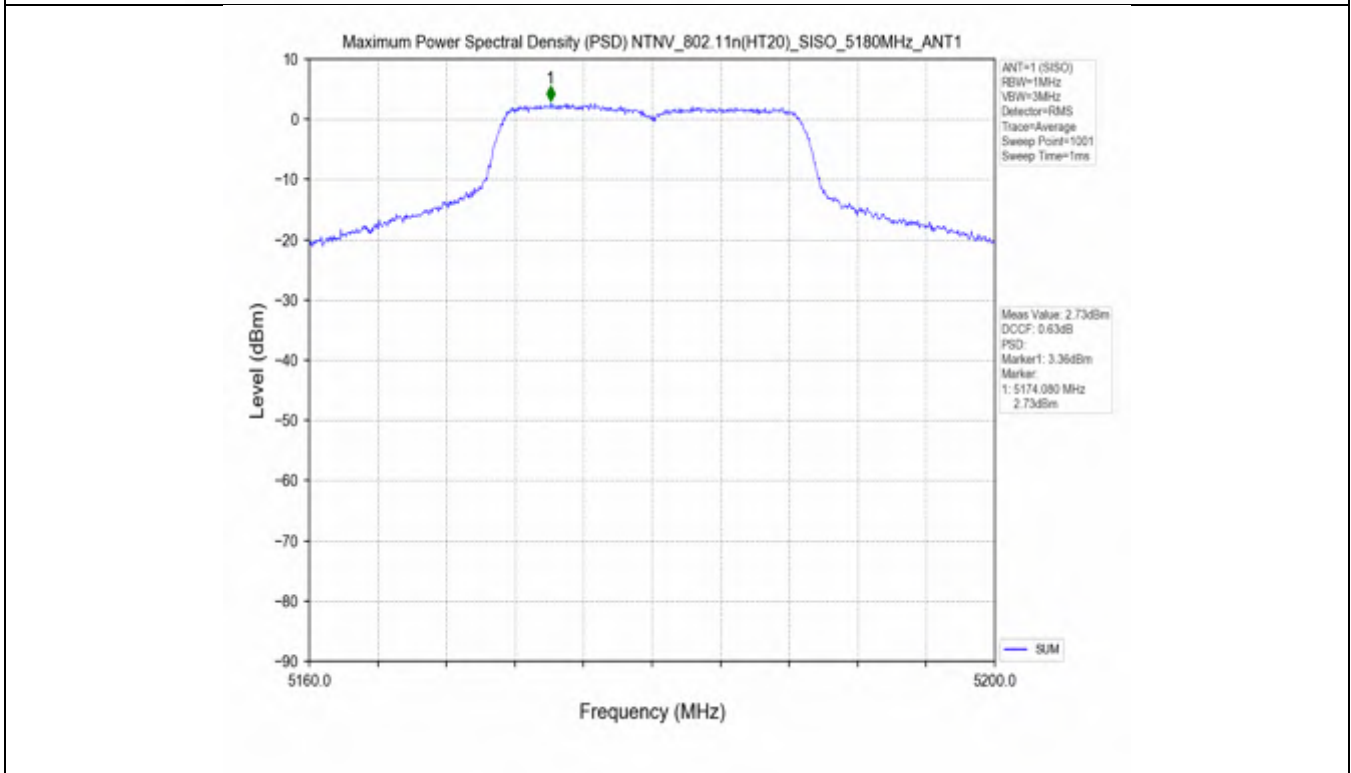
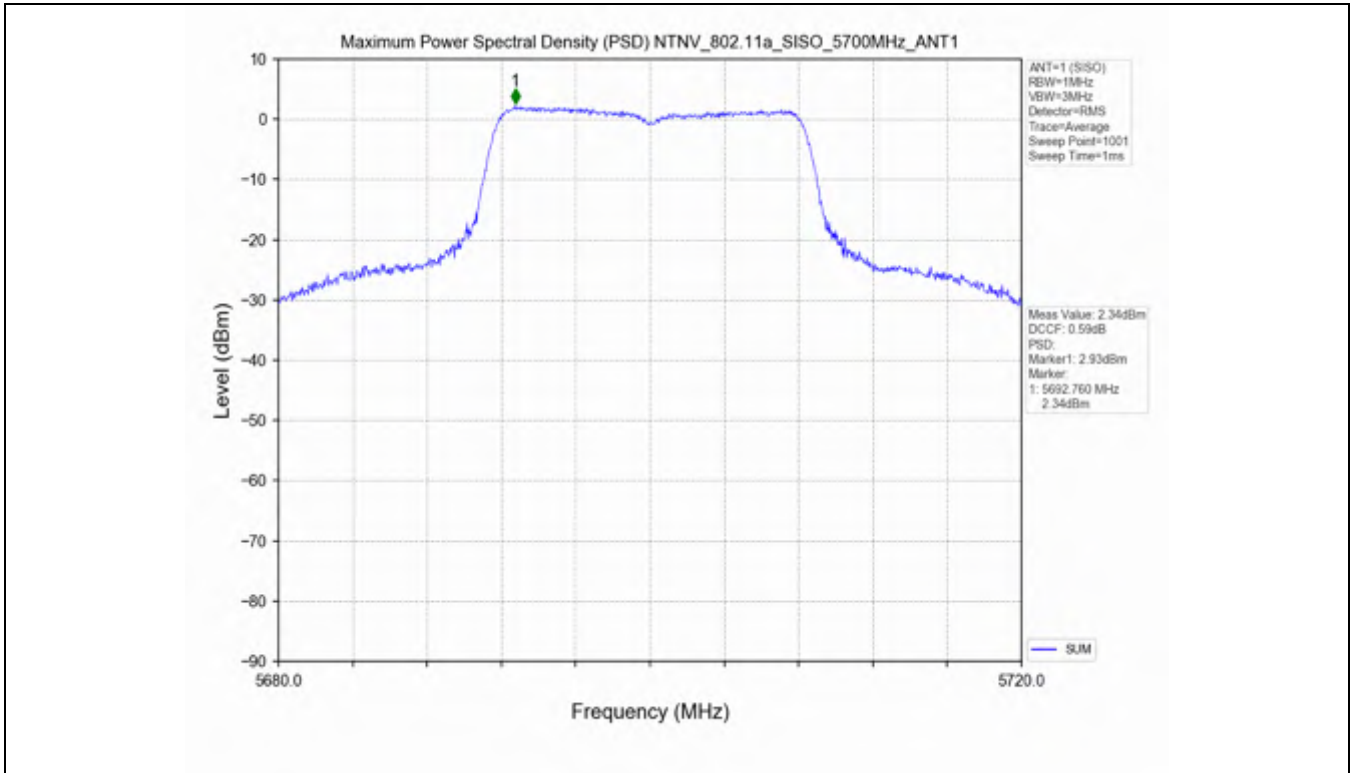
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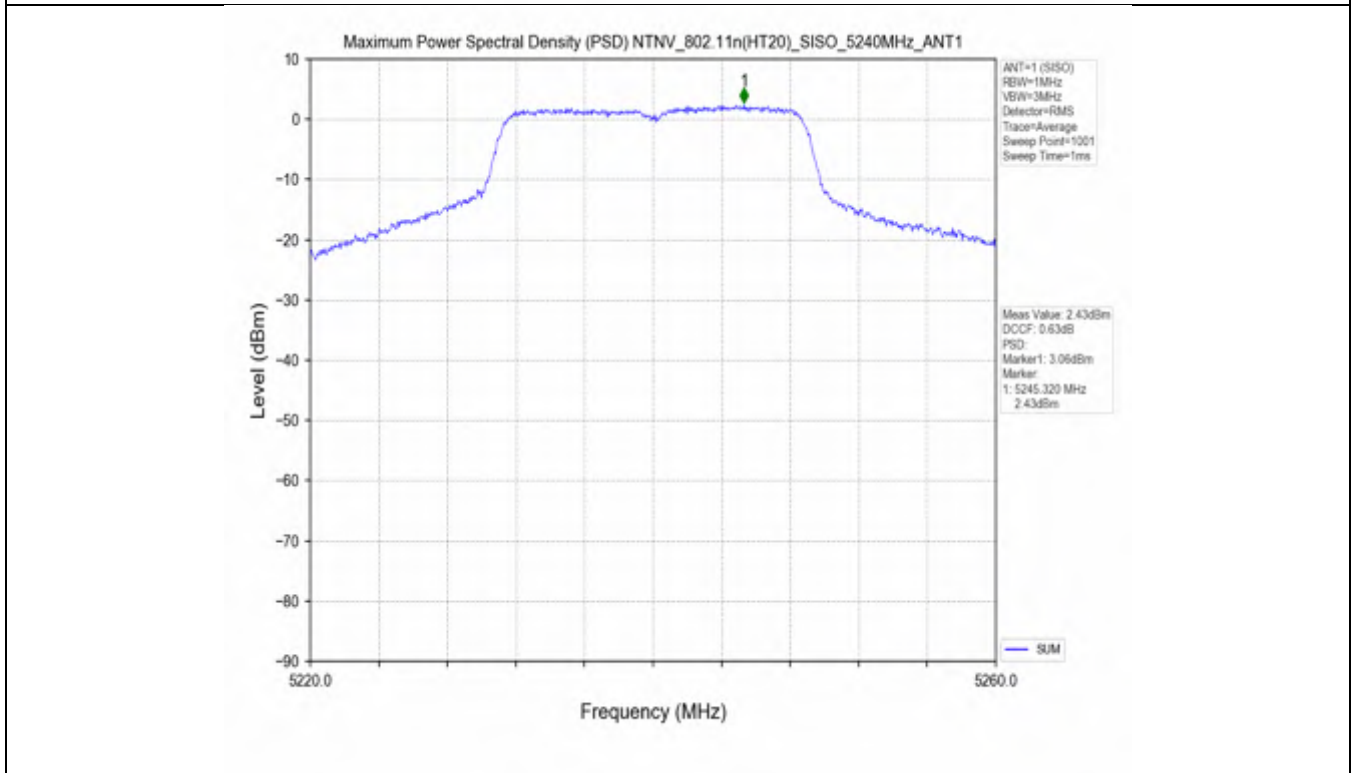
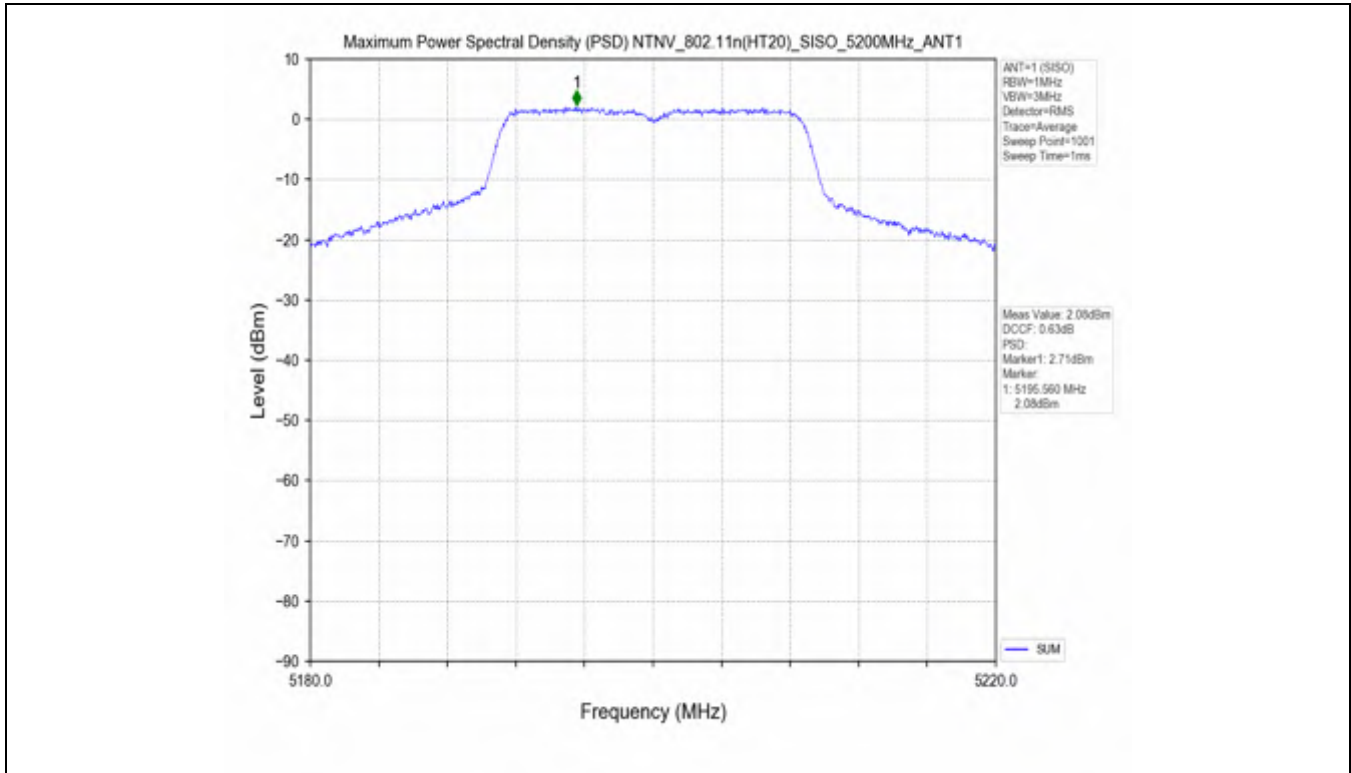


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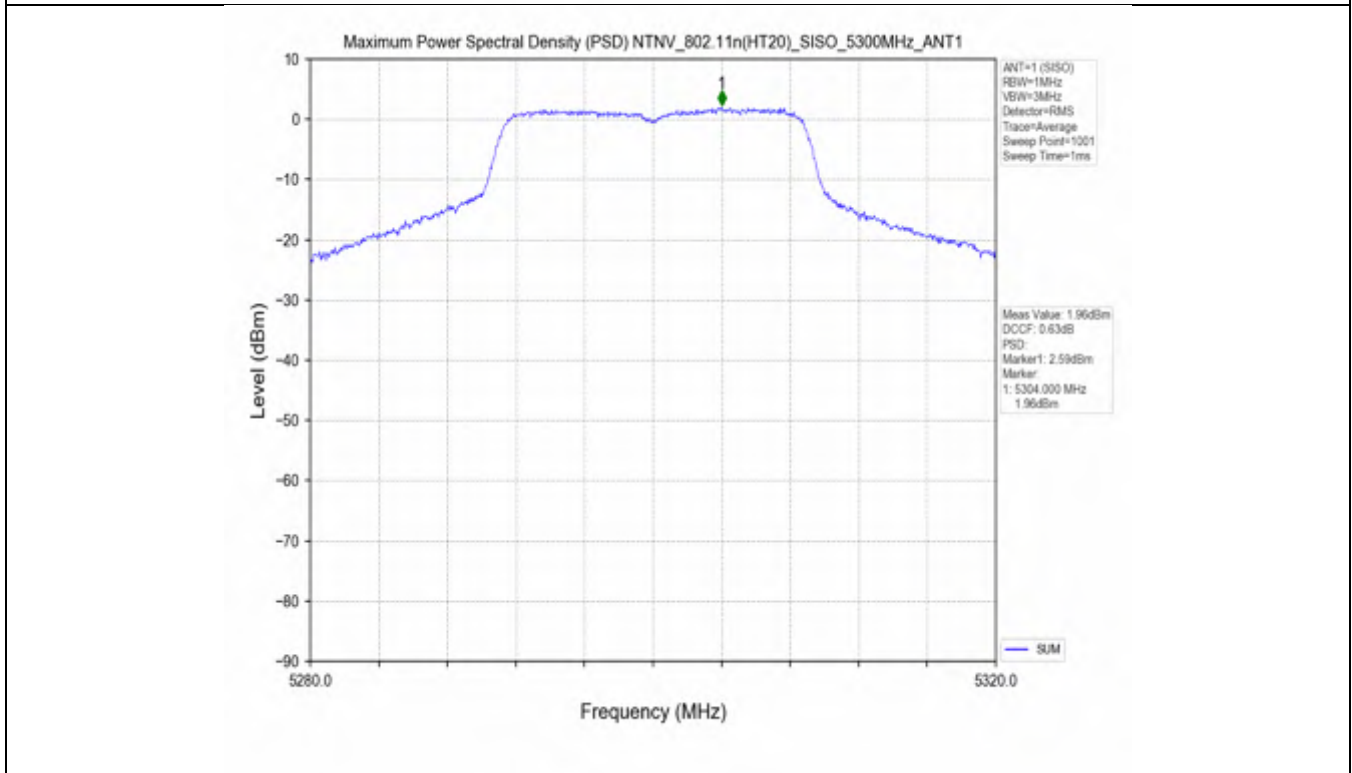
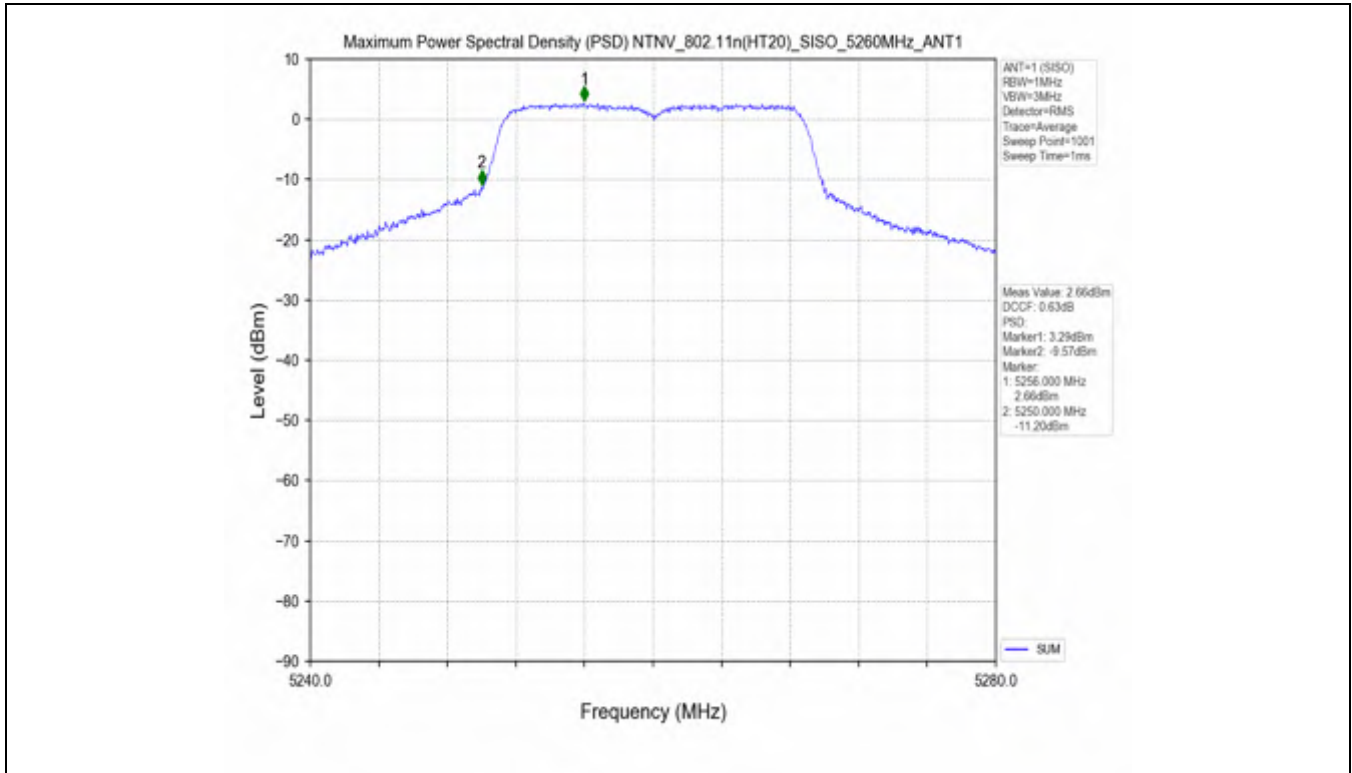
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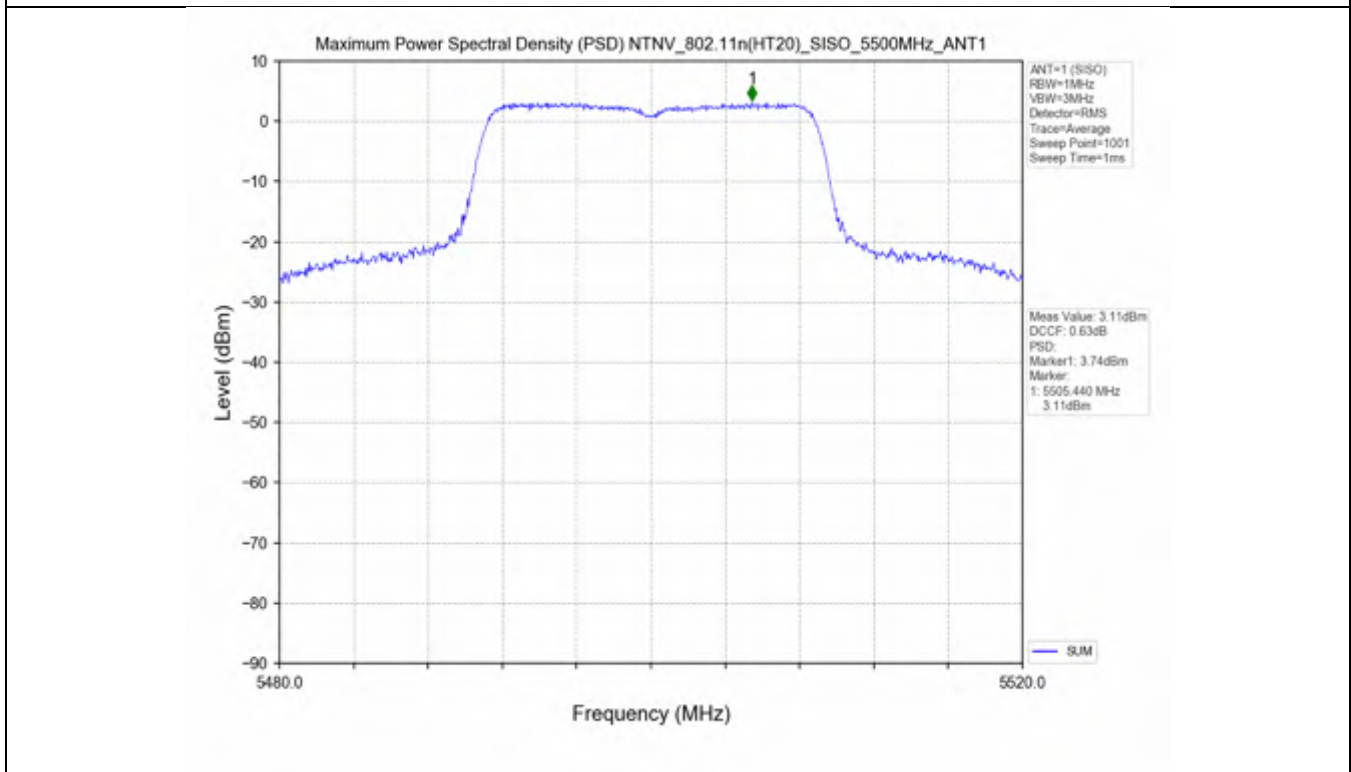
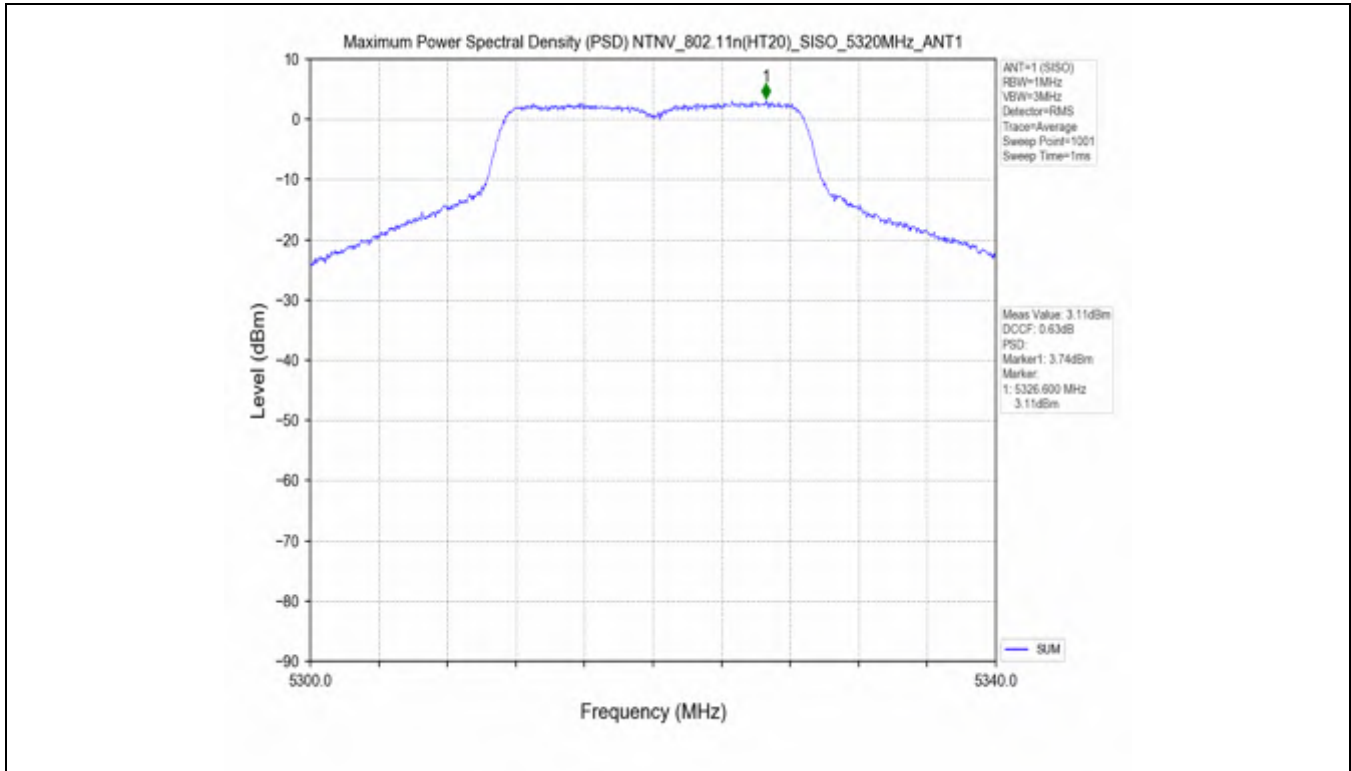
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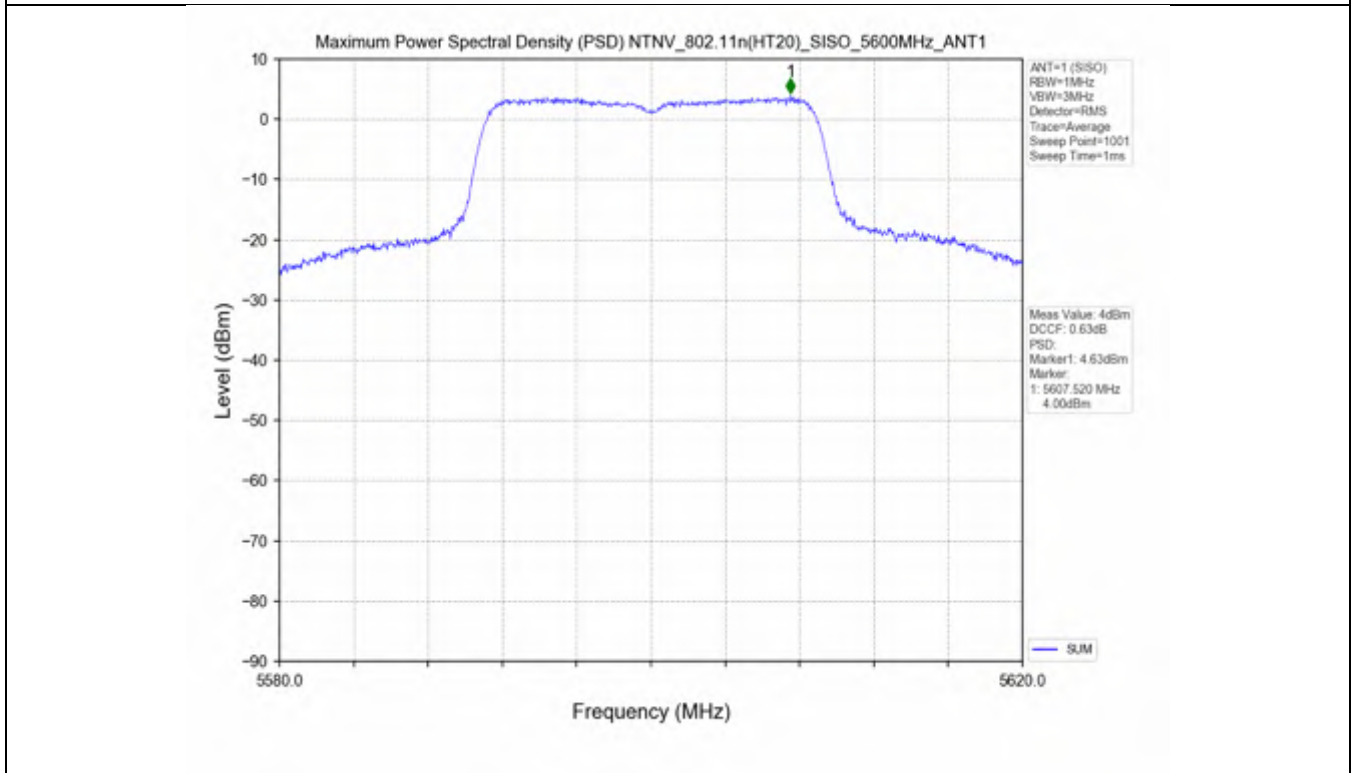
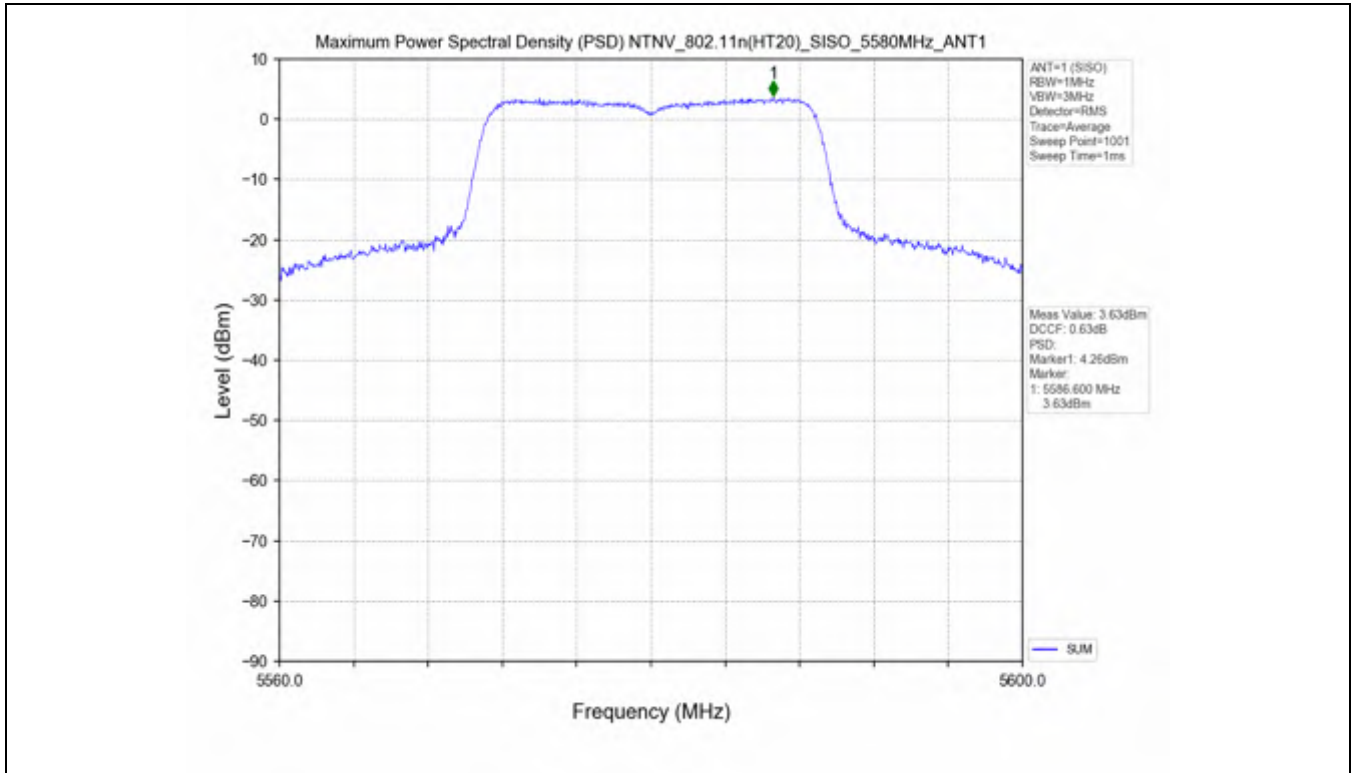
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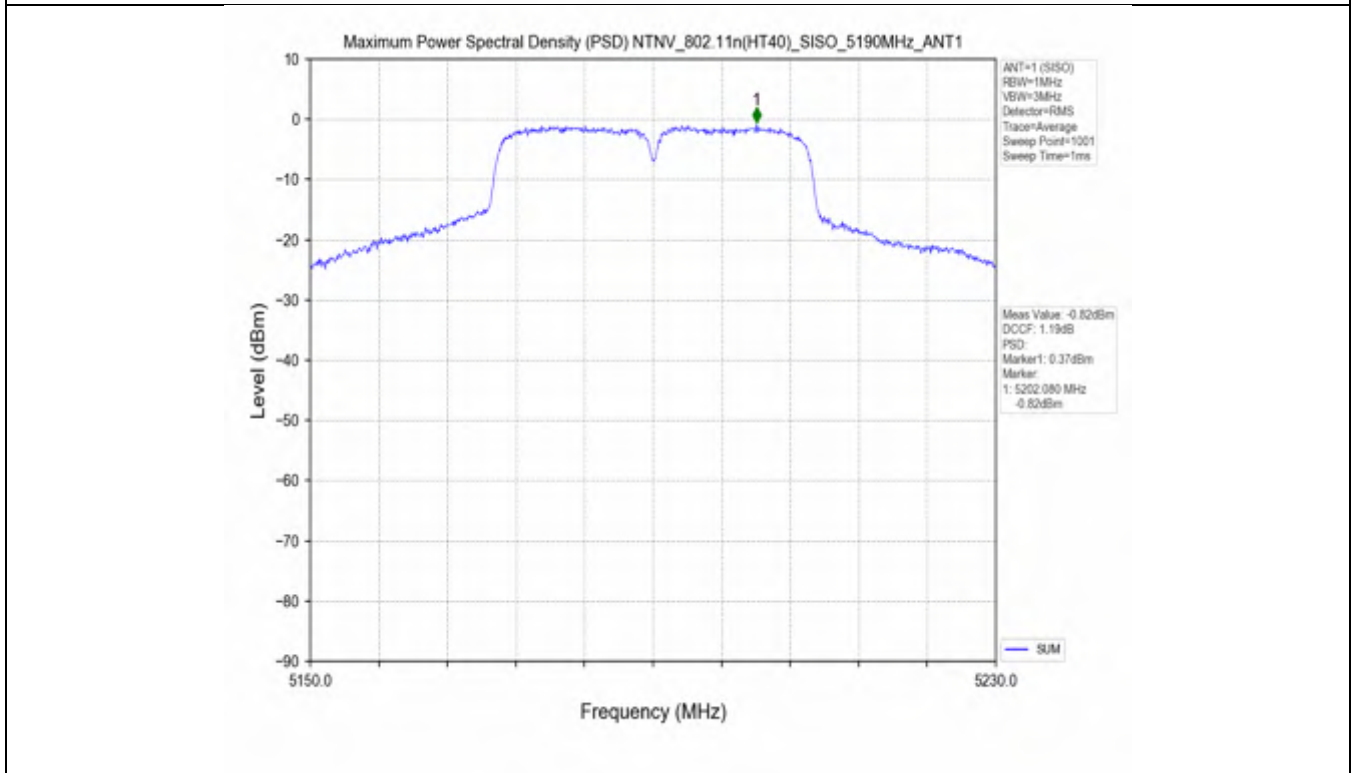
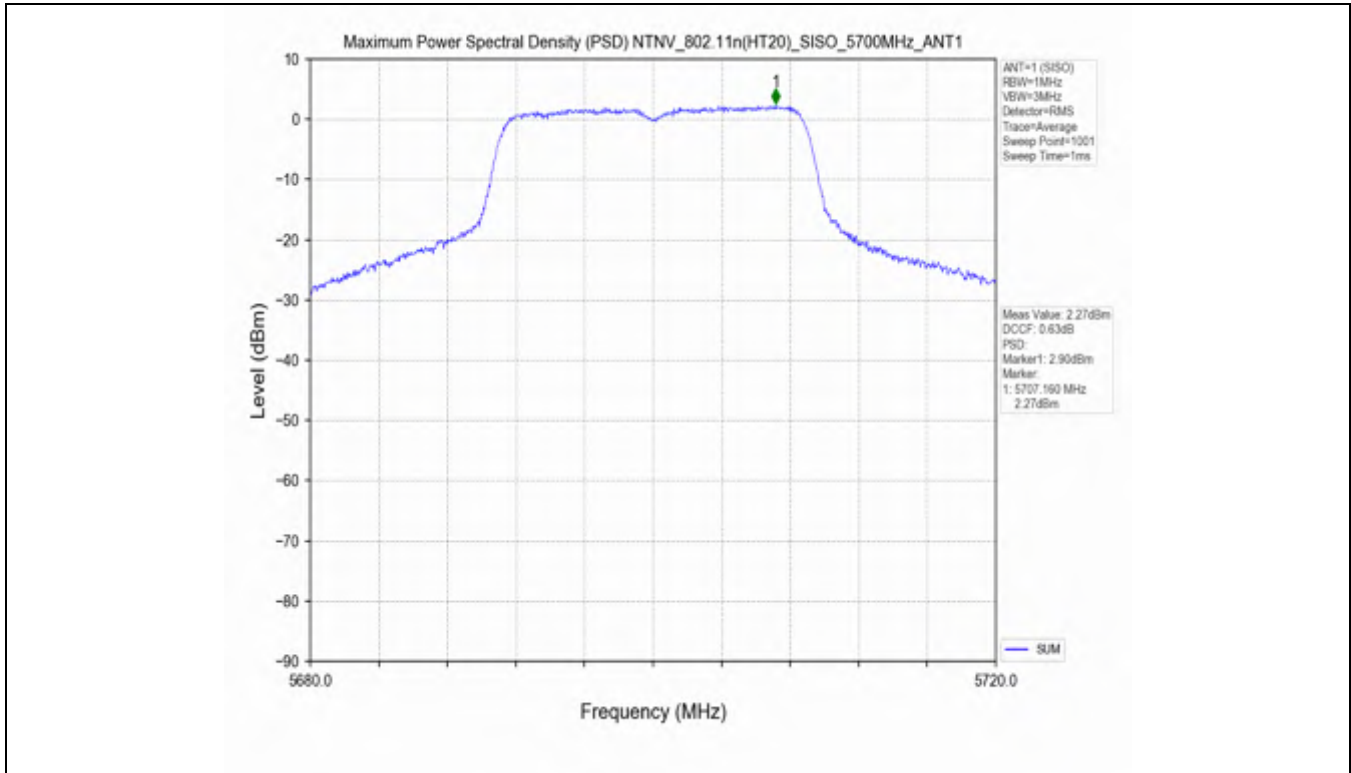
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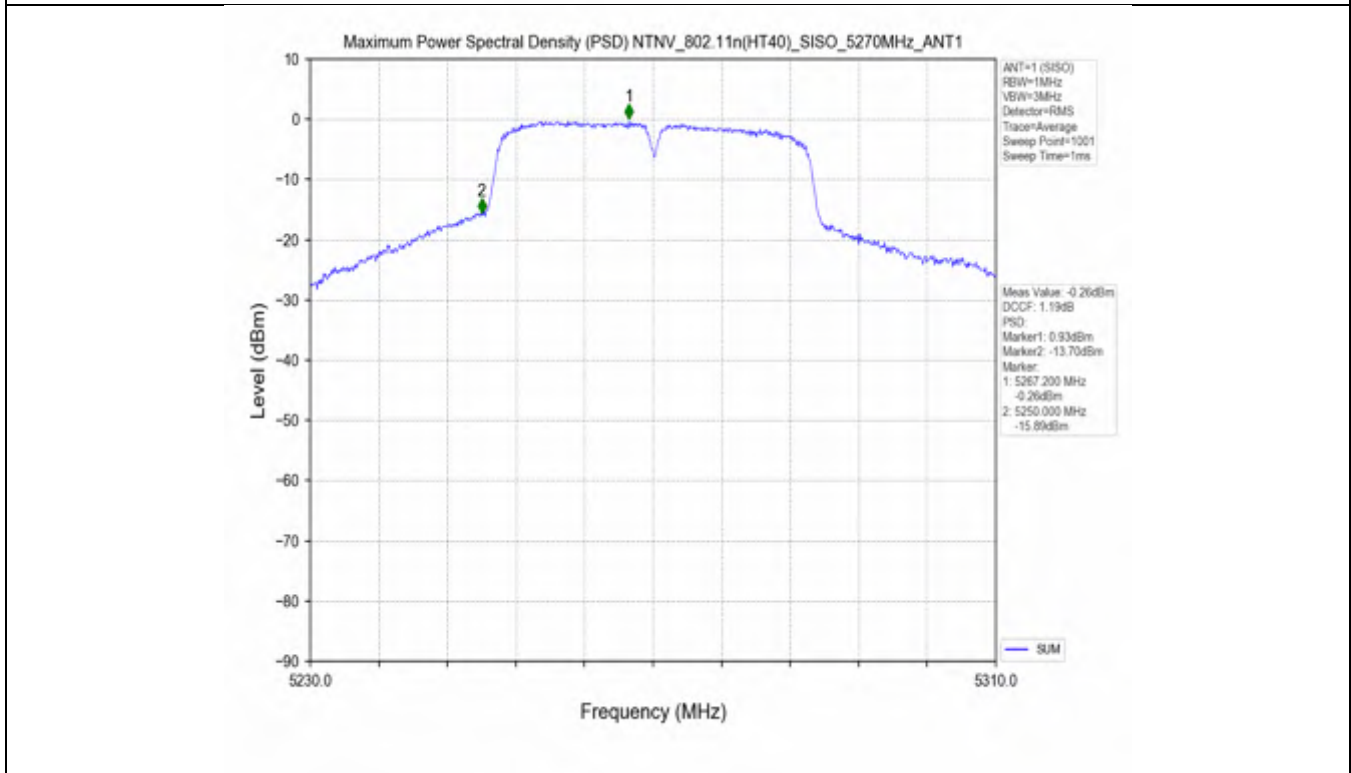
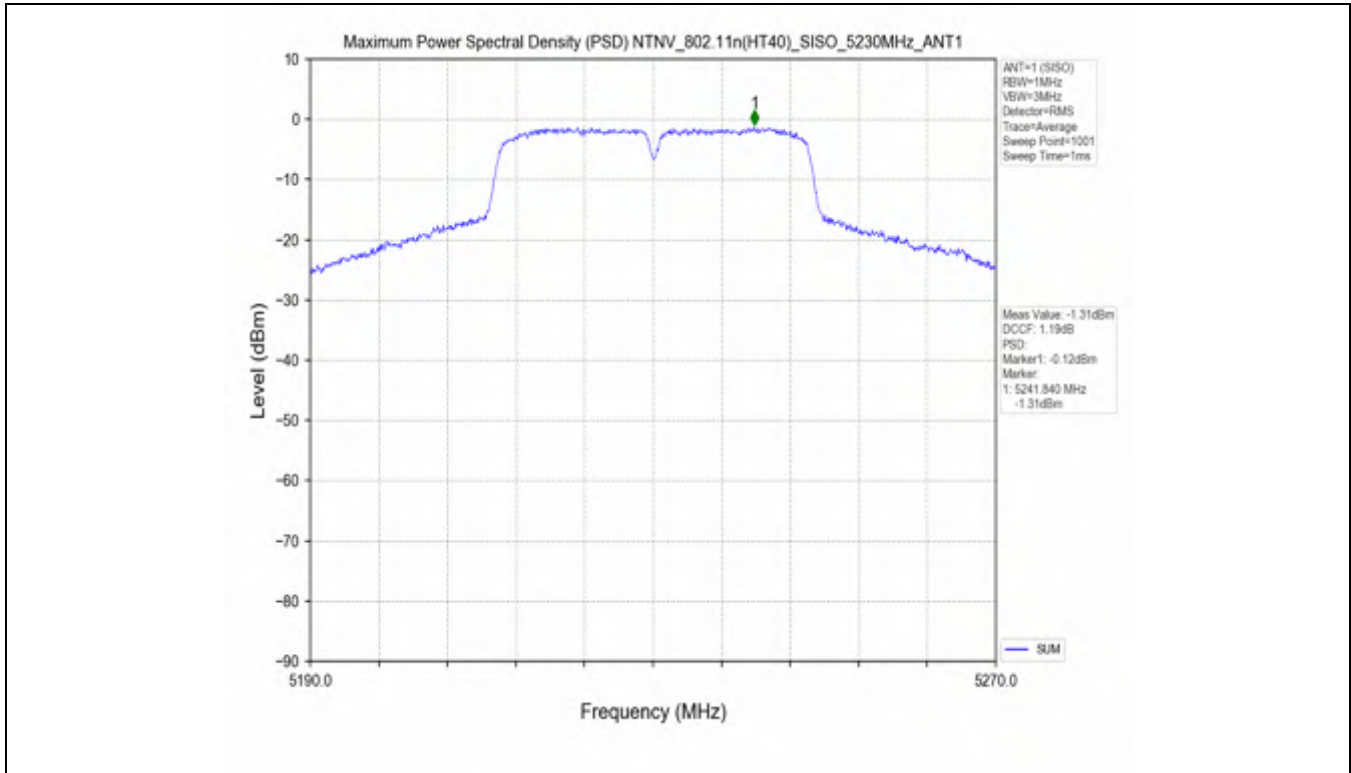


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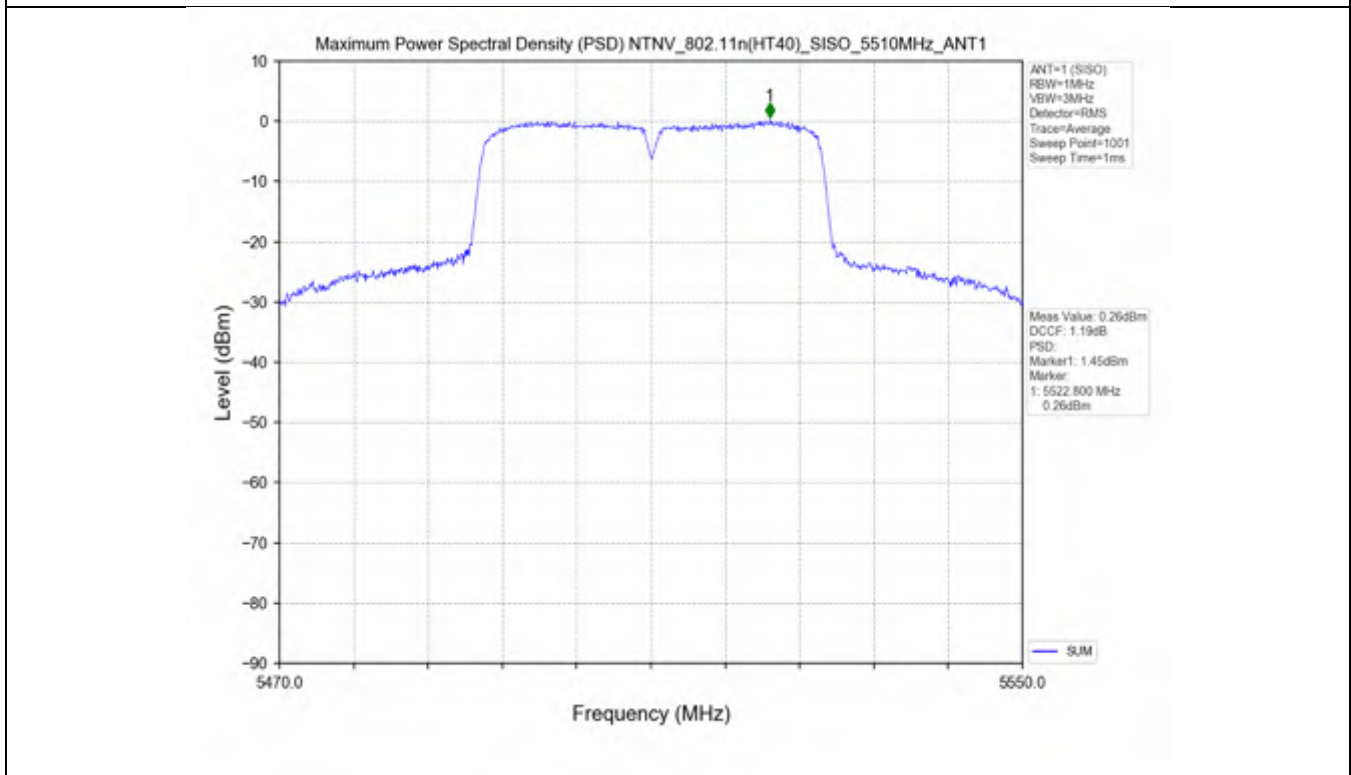
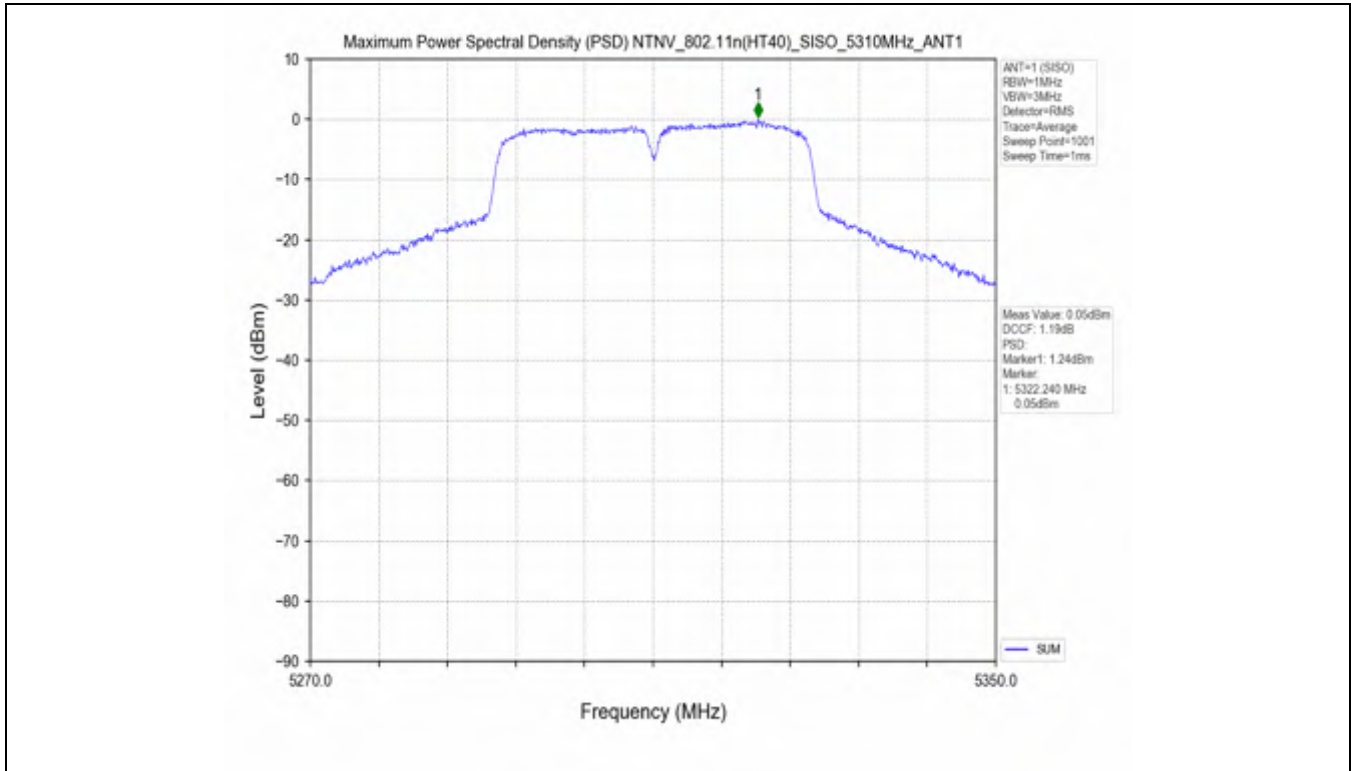
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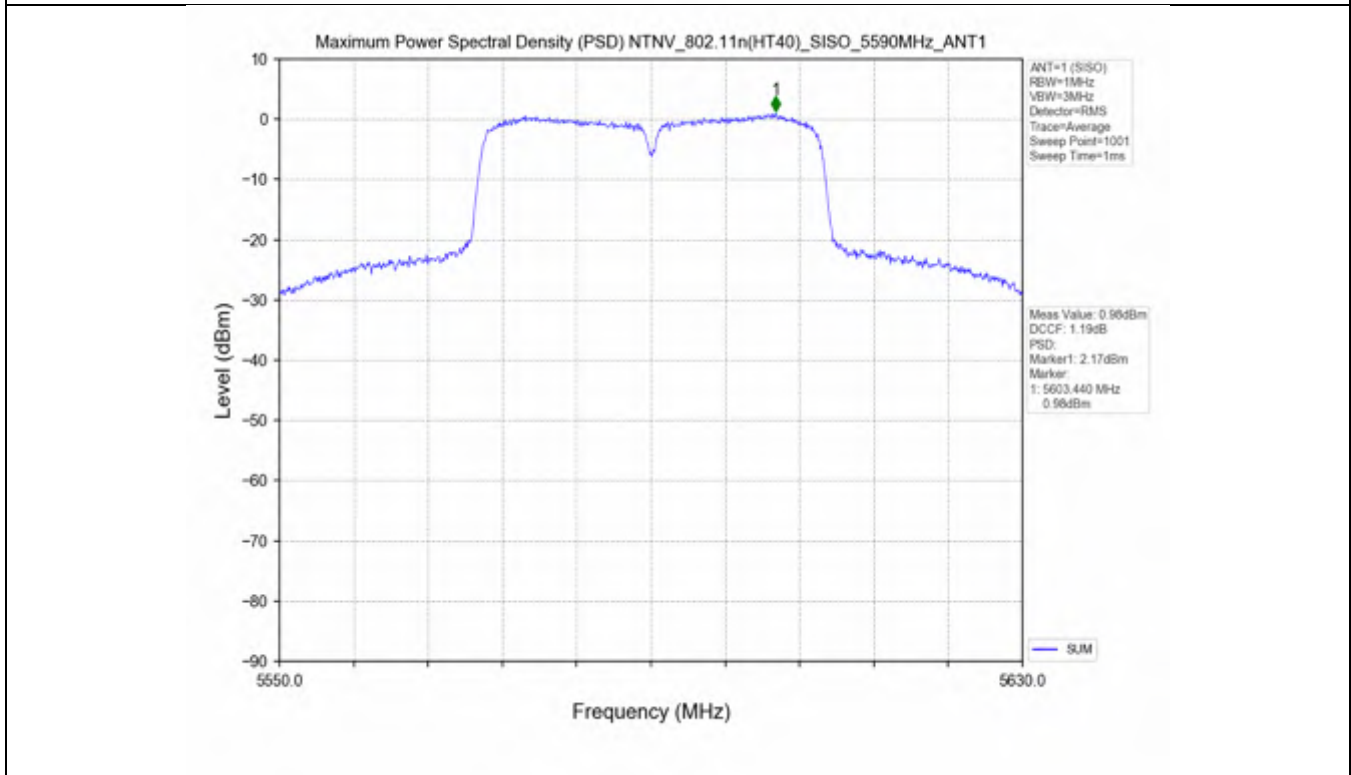
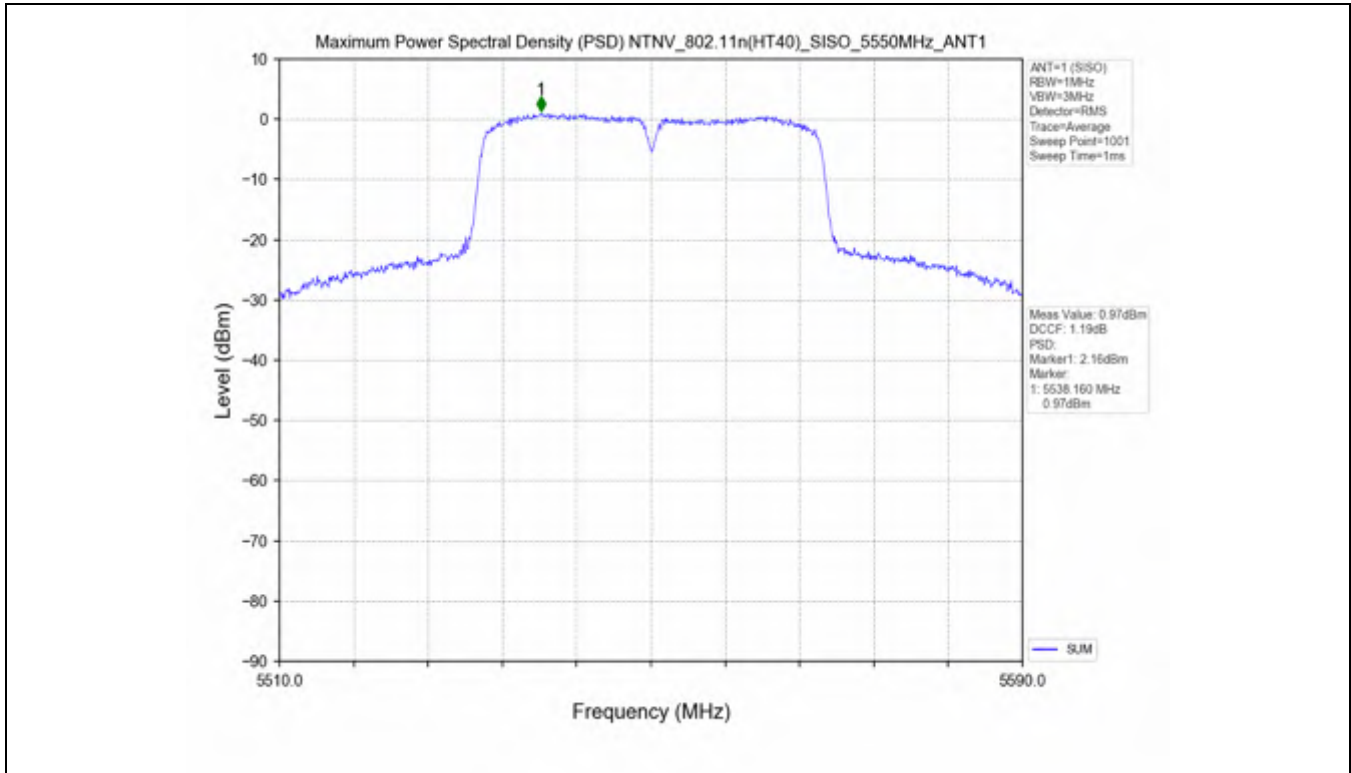


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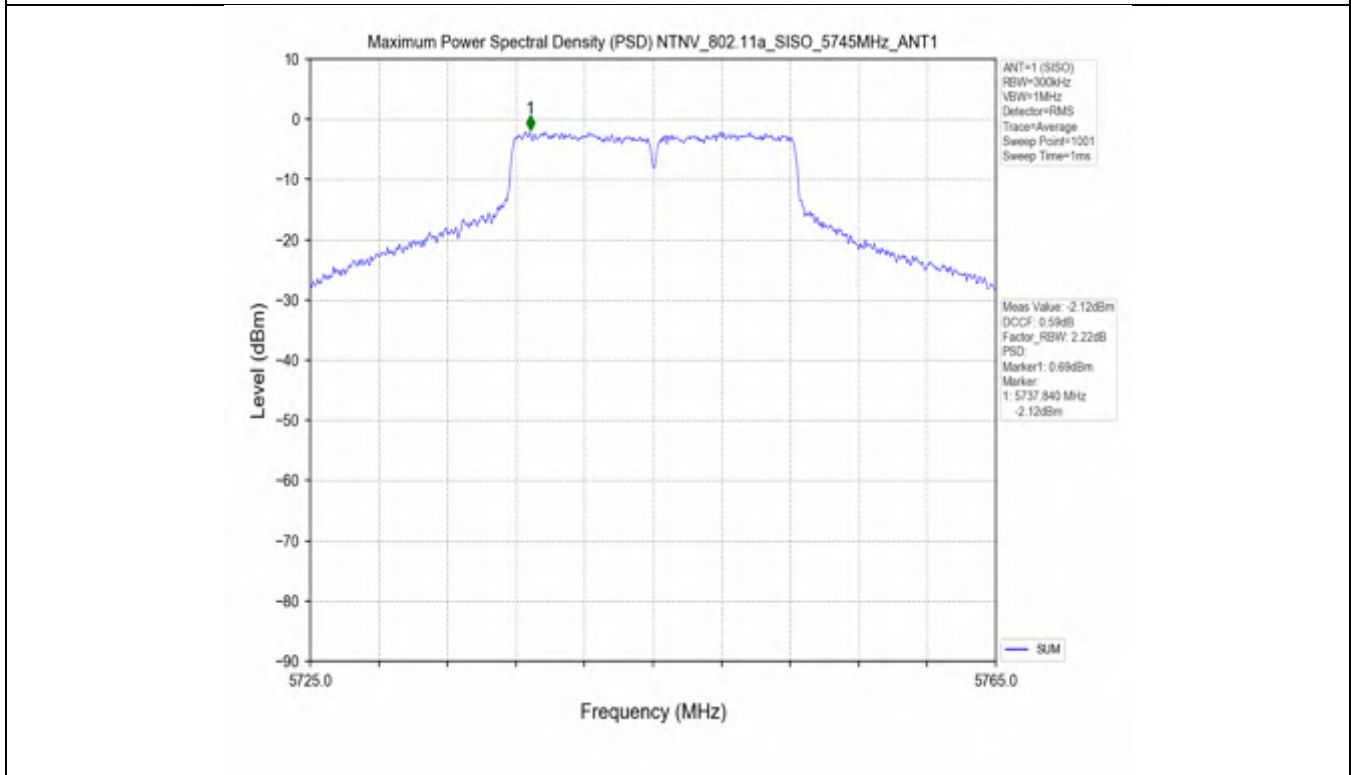
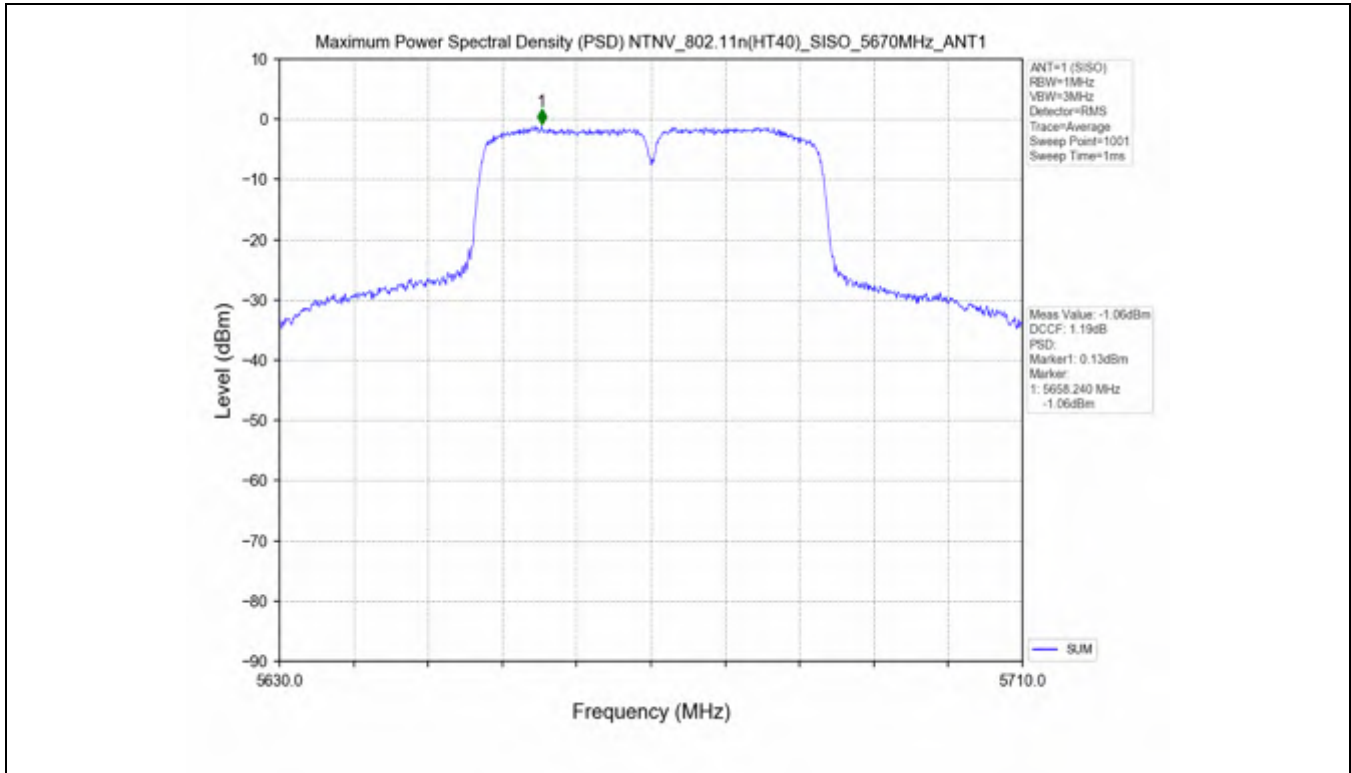
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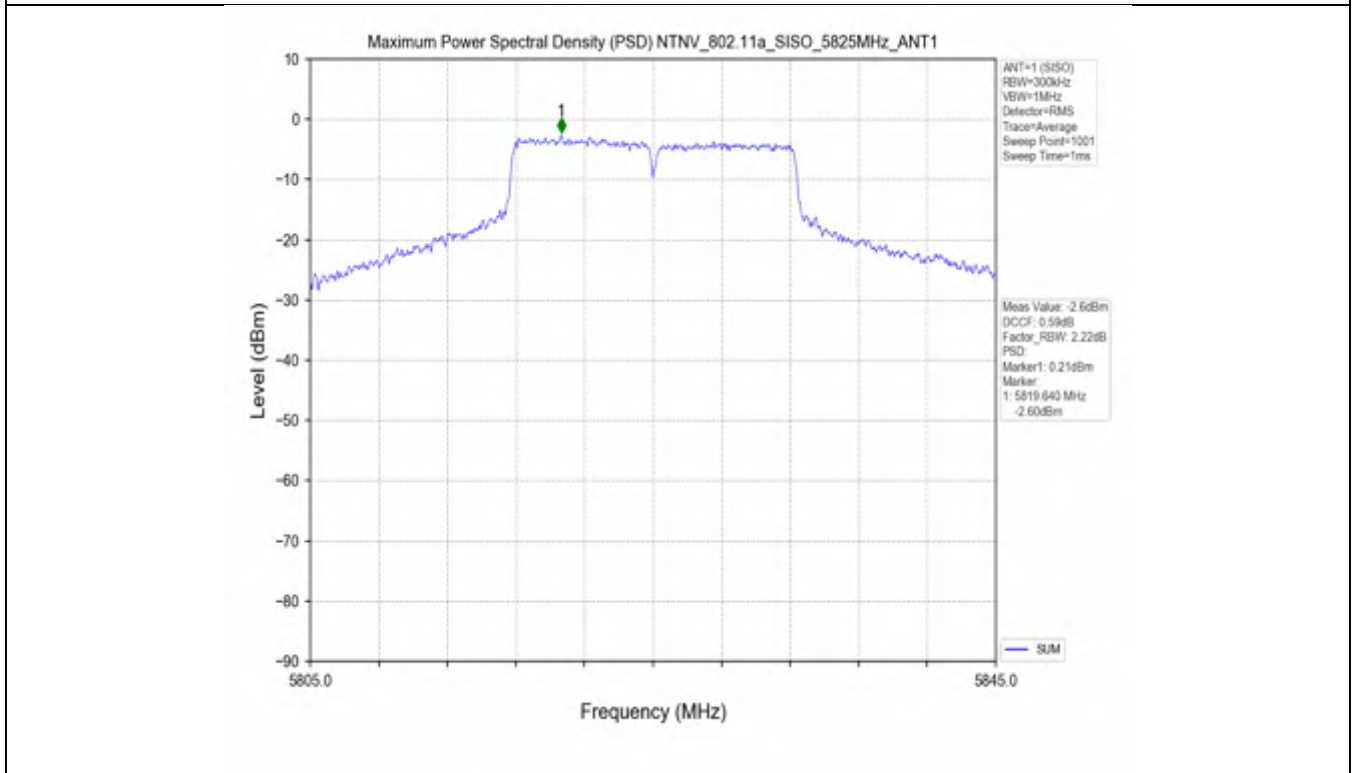
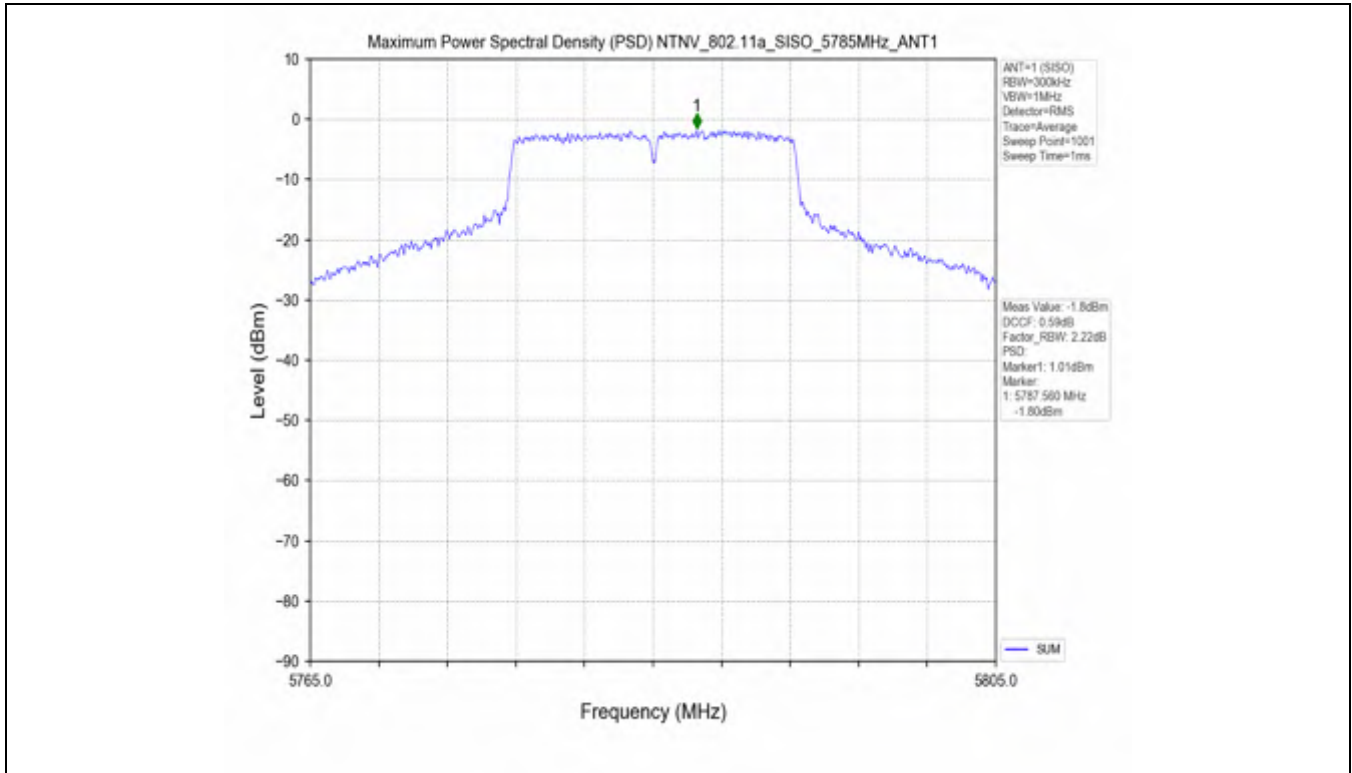
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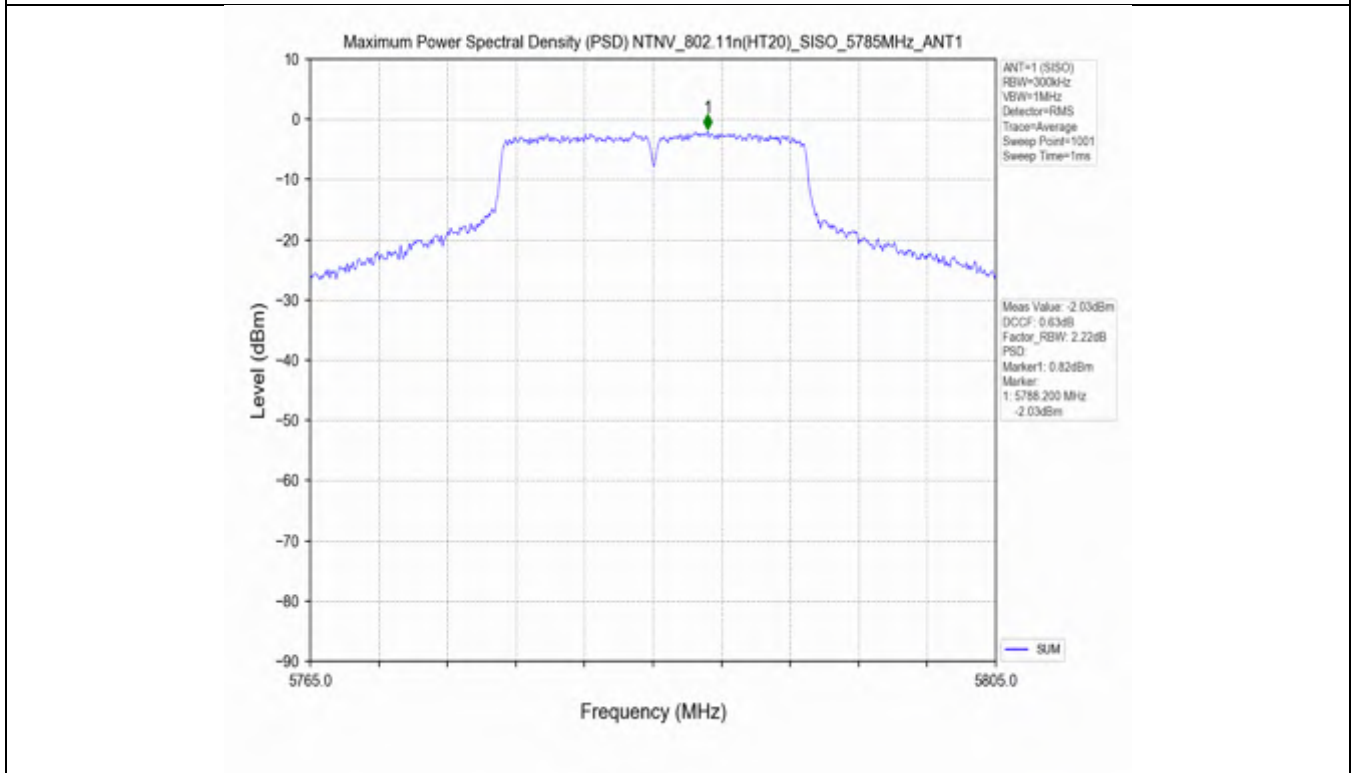
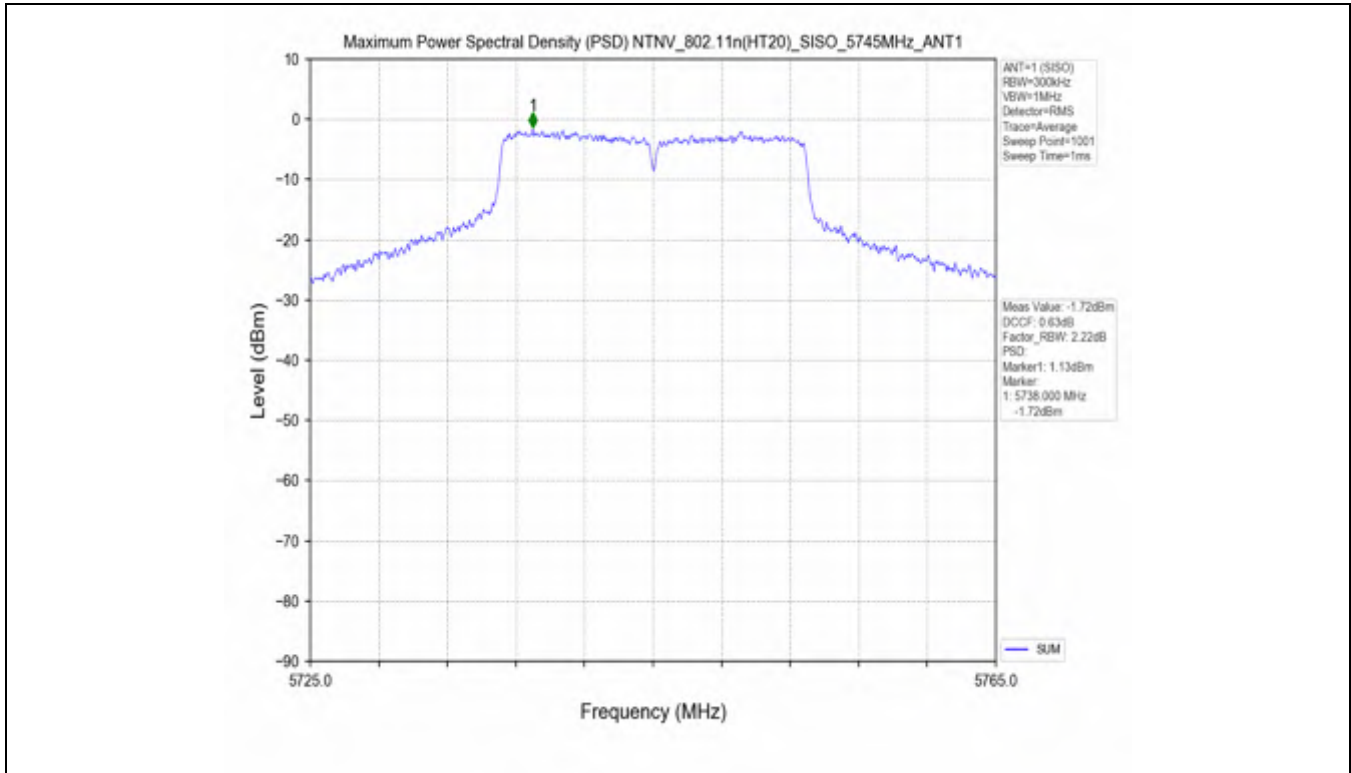
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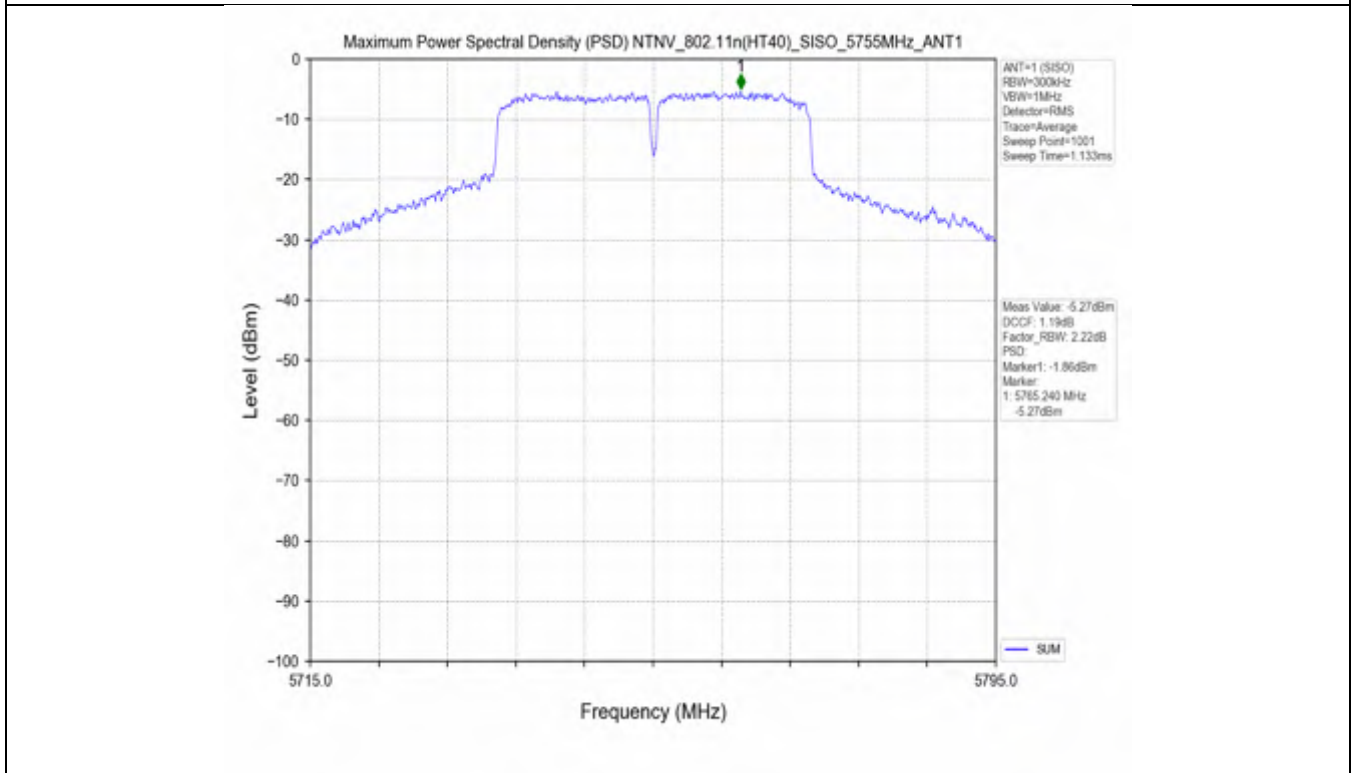
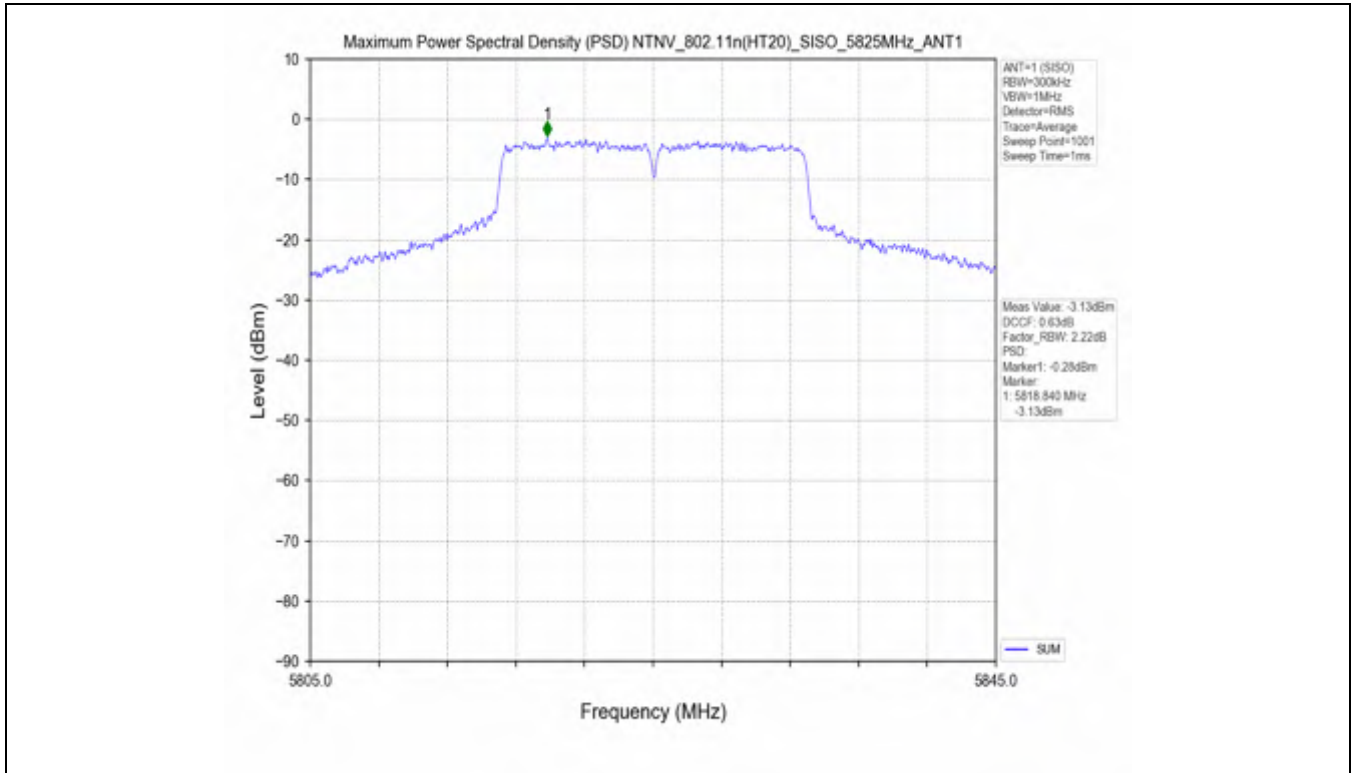
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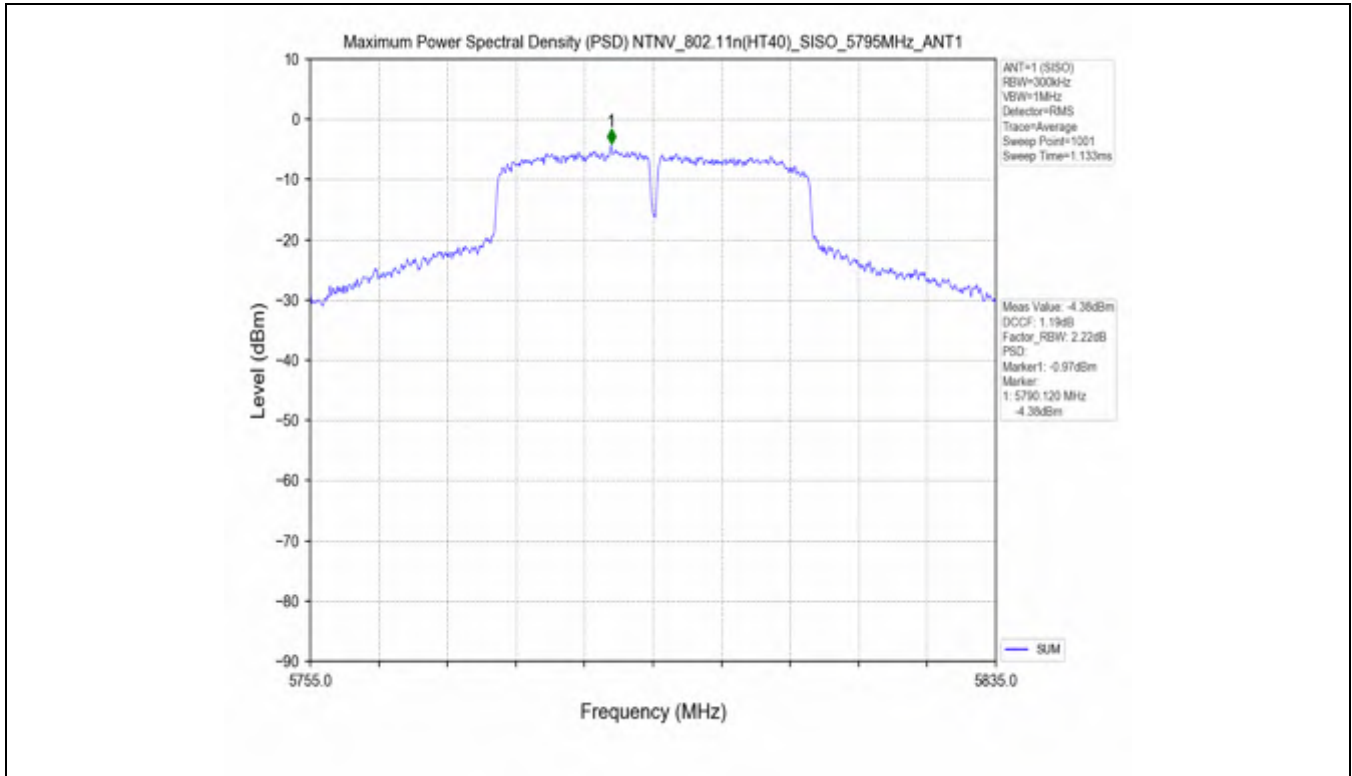
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5. Frequency Stability

Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result	
	Volt (V DC)	Temp (°C)		ANT1	ANT1			
Band UN-II 1	Normal(3.8)	Extreme(-10)	5180	5180.0629	0.0629	5.150-5.250	Pass	
		Extreme(-20)		5180.0907	0.0907		Pass	
		Extreme(0)		5180.0419	0.0419		Pass	
		Extreme(+10)		5180.0762	0.0762		Pass	
		Extreme(+20)		5180.0886	0.0886		Pass	
		Extreme(+30)		5180.0901	0.0901		Pass	
		Extreme(+40)		5180.0520	0.0520		Pass	
		Extreme(+50)		5180.0484	0.0484		Pass	
		Extreme(+55)		5180.0422	0.0422		Pass	
	Extreme(3.5)	Norma(+20)	5180	5180.0527	0.0527	5.150-5.250	Pass	
	Extreme(4.2)			5180.0669	0.0669		Pass	
	Normal(3.8)	Normal(3.8)	5240	Extreme(-10)	5240.0201	0.0201	5.150-5.250	Pass
				Extreme(-20)	5240.0360	0.0360		Pass
				Extreme(0)	5240.0753	0.0753		Pass
				Extreme(+10)	5240.0495	0.0495		Pass
				Extreme(+20)	5240.0486	0.0486		Pass
				Extreme(+30)	5240.0107	0.0107		Pass
				Extreme(+40)	5240.0237	0.0237		Pass
				Extreme(+50)	5240.0082	0.0082		Pass
				Extreme(+55)	5240.0048	0.0048		Pass



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	Extreme(3.5)	Norma(20)	5240.0881	0.0881	Pass
	Extreme(4.2)		5240.0198	0.0198	Pass

Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result
	Volt (V DC)	Temp (°C)		ANT1	ANT1		
Band UN-II 2A	Normal(3.8)	Extreme(-10)	5260	5260.0062	0.0062	5250-5350	Pass
		Extreme(-20)		5260.0053	0.0053		Pass
		Extreme(0)		5260.0858	0.0858		Pass
		Extreme(+10)		5260.0128	0.0128		Pass
		Extreme(+20)		5260.0533	0.0533		Pass
		Extreme(+30)		5260.0061	0.0061		Pass
		Extreme(+40)		5260.0927	0.0927		Pass
		Extreme(+50)		5260.0004	0.0004		Pass
		Extreme(+55)		5260.0676	0.0676		Pass
	Extreme(3.5)	Norma(+20)	5260.0305	0.0305	Pass		
	Extreme(4.2)		5260.0014	0.0014	Pass		
	Normal(3.8)	Extreme(-10)	5320	5320.0645	0.0645	Pass	
		Extreme(-20)		5320.0869	0.0869	Pass	
		Extreme(0)		5320.0162	0.0162	Pass	
		Extreme(+10)		5320.0945	0.0945	Pass	
		Extreme(+20)		5320.0806	0.0806	Pass	
		Extreme(+30)		5320.0703	0.0703	Pass	
		Extreme(+40)		5320.0346	0.0346	Pass	
		Extreme(+50)		5320.0877	0.0877	Pass	



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		Extreme(+55)		5320.0399	0.0399		Pass
	Extreme(3.5)	Norma(20)		5320.0158	0.0158		Pass
	Extreme(4.2)			5320.0566	0.0566		Pass

Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result
	Volt (V DC)	Temp (°C)		ANT1	ANT1		
Band UN-II 2C	Normal(3.8)	Extreme(-10)	5500	5500.0723	0.0723	5470-5725	Pass
		Extreme(-20)		5500.0007	0.0007		Pass
		Extreme(0)		5500.0712	0.0712		Pass
		Extreme(+10)		5500.0206	0.0206		Pass
		Extreme(+20)		5500.0120	0.0120		Pass
		Extreme(+30)		5500.0208	0.0208		Pass
		Extreme(+40)		5500.0609	0.0609		Pass
		Extreme(+50)		5500.0302	0.0302		Pass
		Extreme(+55)		5500.0249	0.0249		Pass
	Extreme(3.5)	Norma(+20)		5500.0183	0.0183		Pass
	Extreme(4.2)			5500.0269	0.0269		Pass
	Normal(3.8)	Extreme(-10)	5700	5700.0594	0.0594	5470-5725	Pass
		Extreme(-20)		5700.0213	0.0213		Pass
		Extreme(0)		5700.0487	0.0487		Pass
		Extreme(+10)		5700.0054	0.0054		Pass
		Extreme(+20)		5700.0953	0.0953		Pass
		Extreme(+30)		5700.0234	0.0234		Pass
		Extreme(+40)		5700.0283	0.0283		Pass



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		Extreme(+50)		5700.0950	0.0950		Pass
		Extreme(+55)		5700.0644	0.0644		Pass
	Extreme(3.5)	Norma(20)		5700.0190	0.0190		Pass
	Extreme(4.2)			5700.0720	0.0720		Pass

Band	Test Conditions		Operation Frequency (MHz)	Test Frequency (MHz)	Freq. Dev. (MHz)	Limit (GHz)	Result
	Volt (V DC)	Temp (°C)		ANT1	ANT1		
Band UN-II 3	Normal(3.8)	Extreme(-10)	5745	5745.0137	0.0137	5.725-5.850	Pass
		Extreme(-20)		5745.0766	0.0766		Pass
		Extreme(0)		5745.0311	0.0311		Pass
		Extreme(+10)		5745.0259	0.0259		Pass
		Extreme(+20)		5745.0540	0.0540		Pass
		Extreme(+30)		5745.0105	0.0105		Pass
		Extreme(+40)		5745.0068	0.0068		Pass
		Extreme(+50)		5745.0919	0.0919		Pass
		Extreme(+55)		5745.0519	0.0519		Pass
	Extreme(3.5)	Norma(+20)		5745.0069	0.0069		Pass
	Extreme(4.2)			5745.0871	0.0871		Pass
	Normal(3.8)	Extreme(-10)	5825	5825.0144	0.0144		Pass
		Extreme(-20)		5825.0823	0.0823		Pass
		Extreme(0)		5825.0243	0.0243		Pass
		Extreme(+10)		5825.0912	0.0912		Pass
		Extreme(+20)		5825.0260	0.0260		Pass



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		Extreme(+30)	5825.0286	0.0286	Pass
		Extreme(+40)	5825.0049	0.0049	Pass
		Extreme(+50)	5825.0153	0.0153	Pass
		Extreme(+55)	5825.0673	0.0673	Pass
	Extreme(3.5)	Norma(20)	5825.0905	0.0905	Pass
	Extreme(4.2)		5825.0976	0.0976	Pass



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