

11 Appendix

Appendix for 15.247

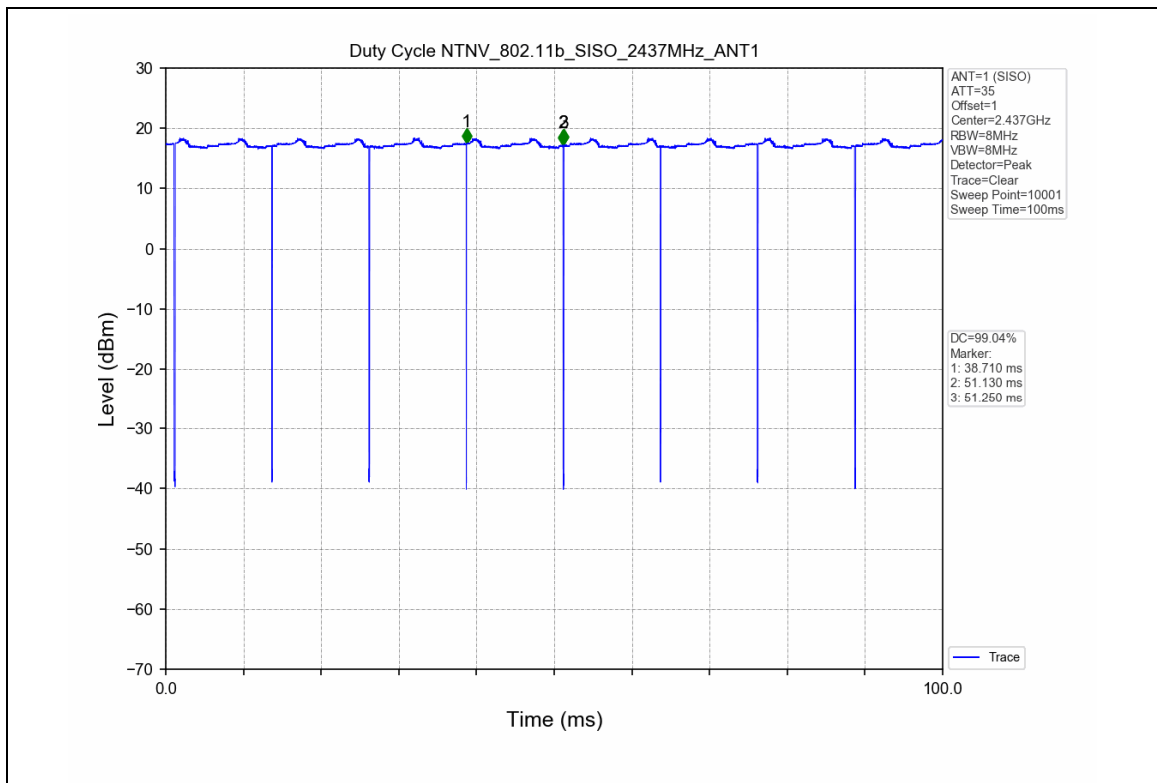
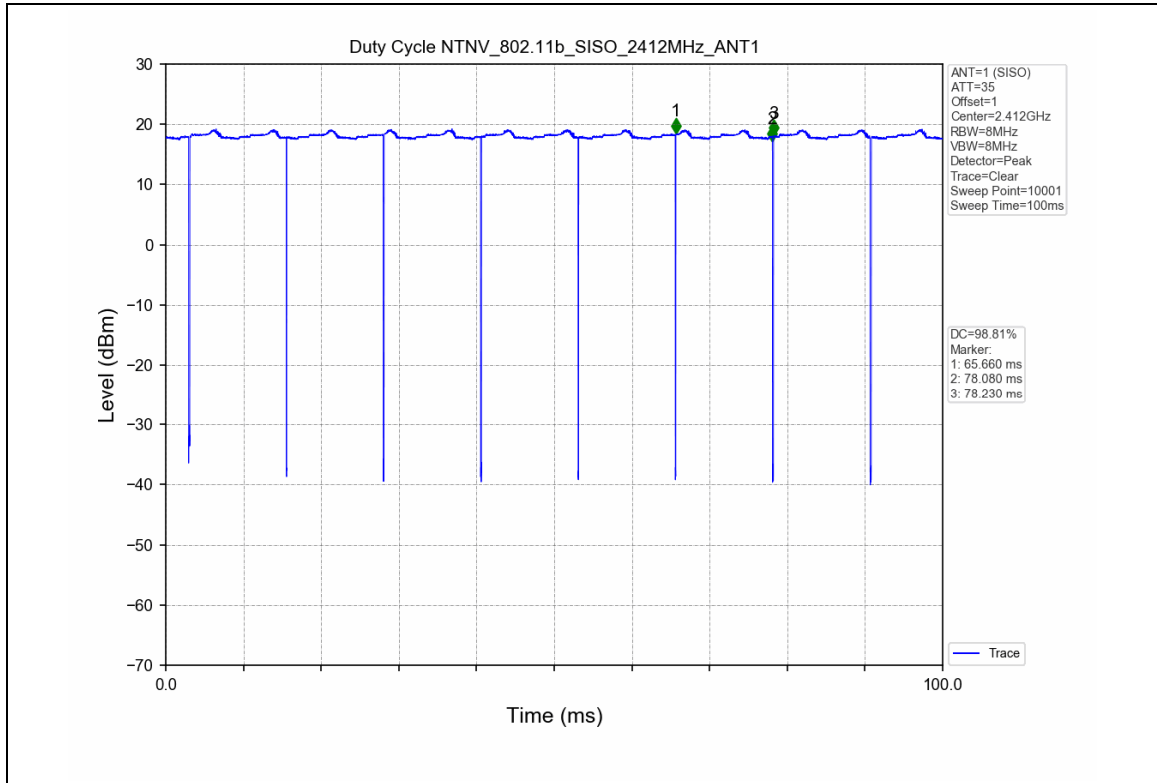
1. Duty Cycle

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	12.420	12.570	98.81	0.05
	2437	SISO	1	12.420	12.540	99.04	0.04
	2462	SISO	1	12.420	12.590	98.65	0.06
802.11g	2412	SISO	1	2.038	2.190	93.06	0.31
	2437	SISO	1	2.036	2.195	92.76	0.33
	2462	SISO	1	2.036	2.185	93.18	0.31
802.11n(HT20)	2412	SISO	1	1.890	2.050	92.20	0.35
	2437	SISO	1	1.896	2.067	91.73	0.37
	2462	SISO	1	1.890	2.058	91.84	0.37
802.11n(HT40)	2422	SISO	1	0.943	1.184	79.65	0.99
	2437	SISO	1	0.922	1.162	79.35	1.00
	2452	SISO	1	0.944	1.184	79.73	0.98

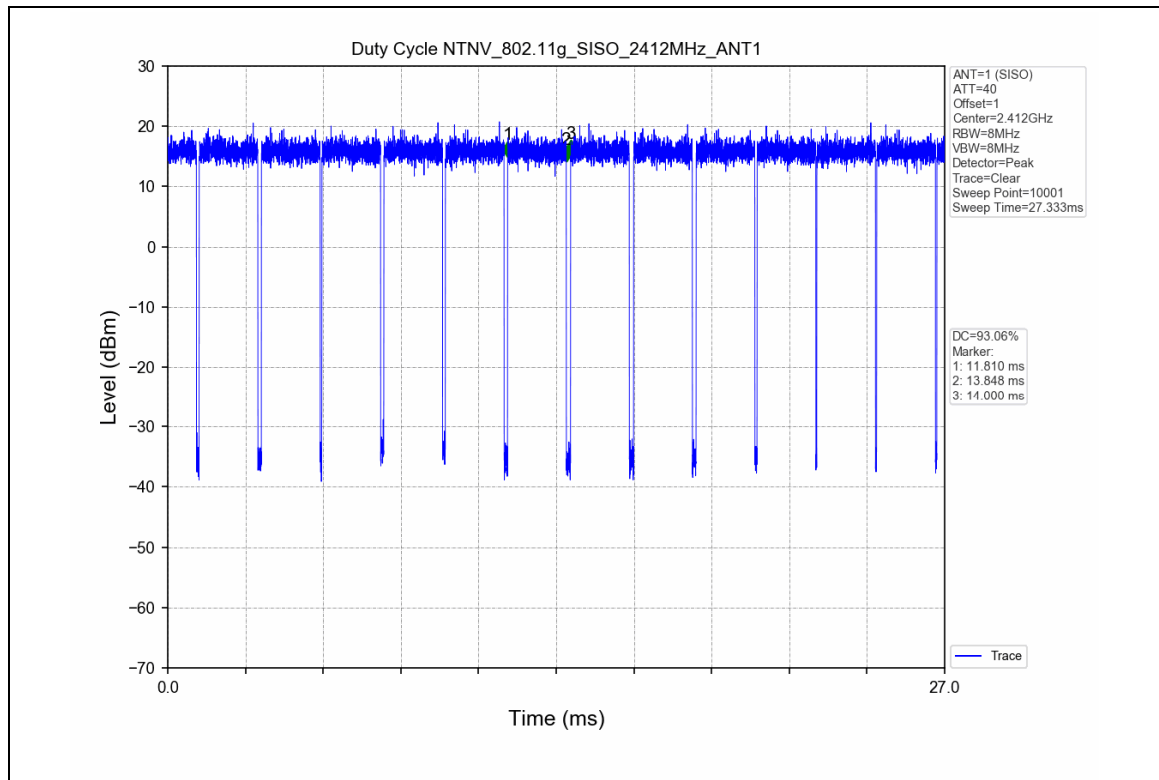
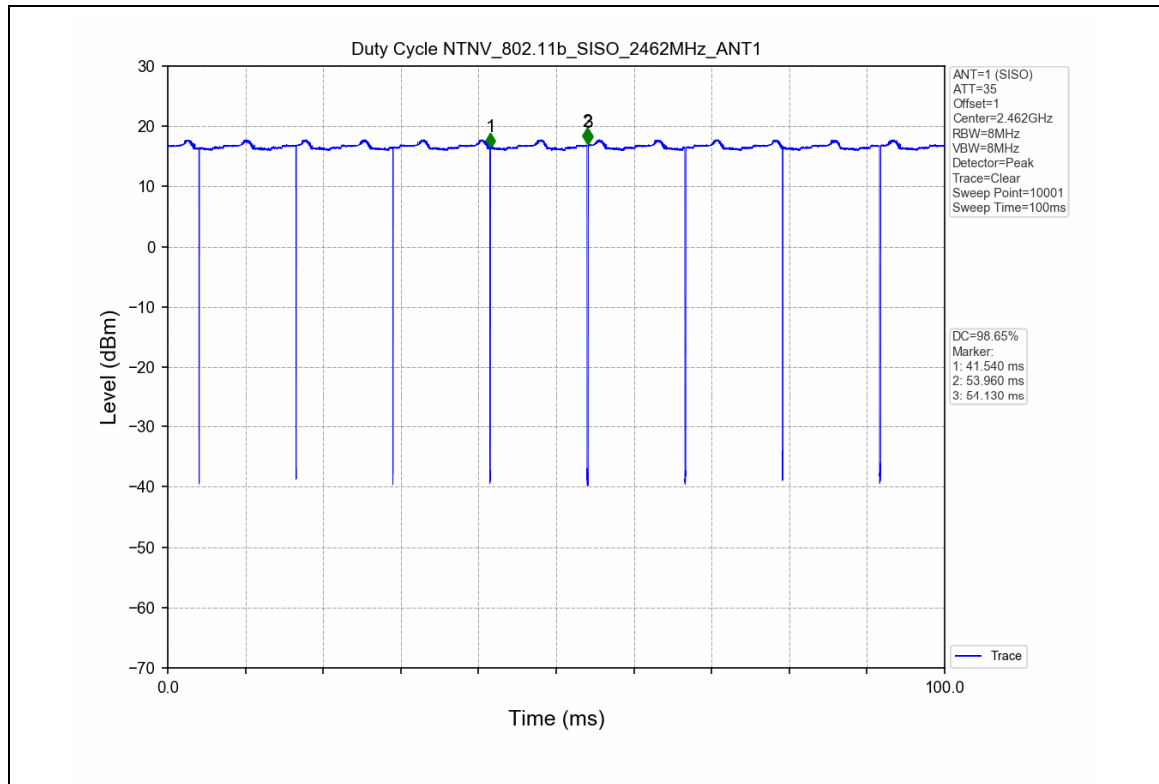


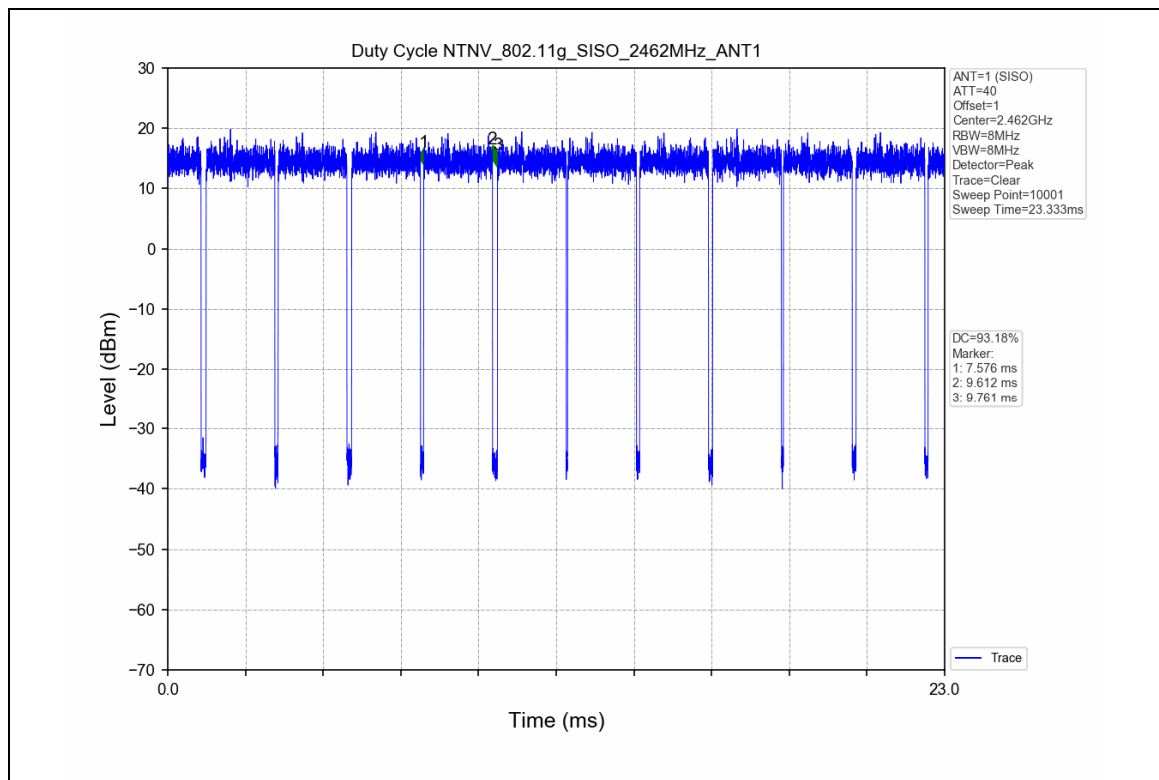
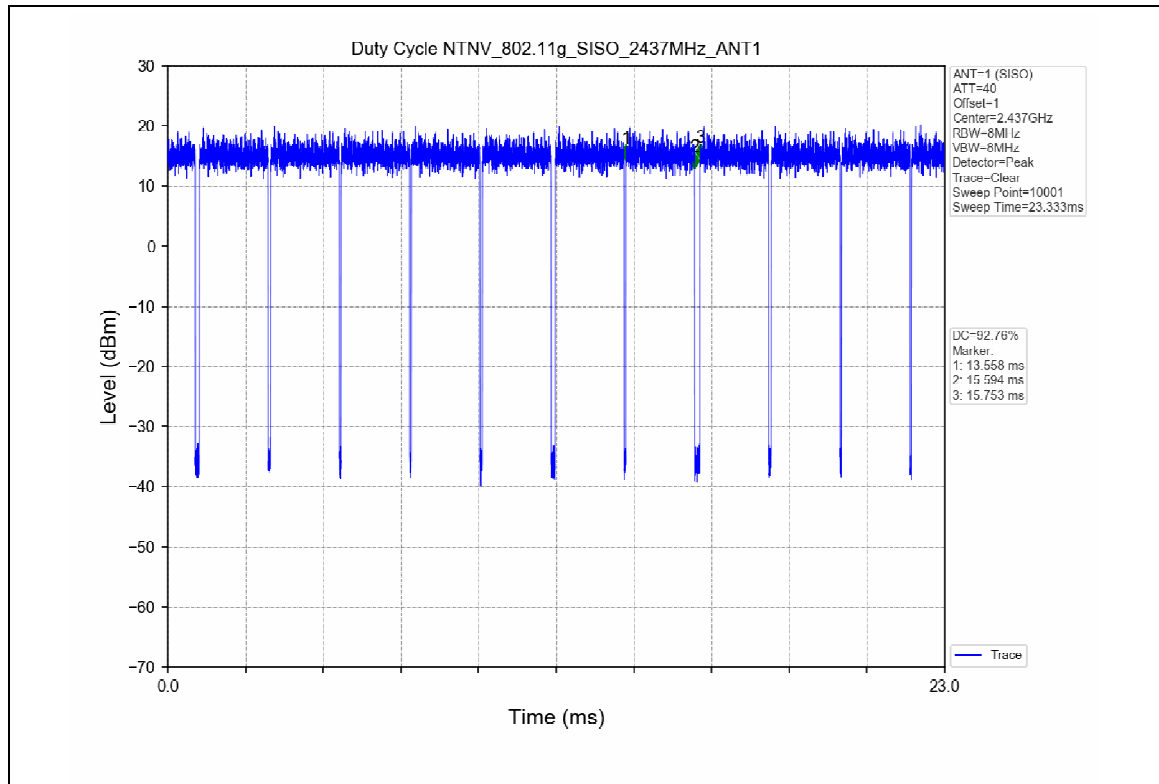
1.2 Test Graph

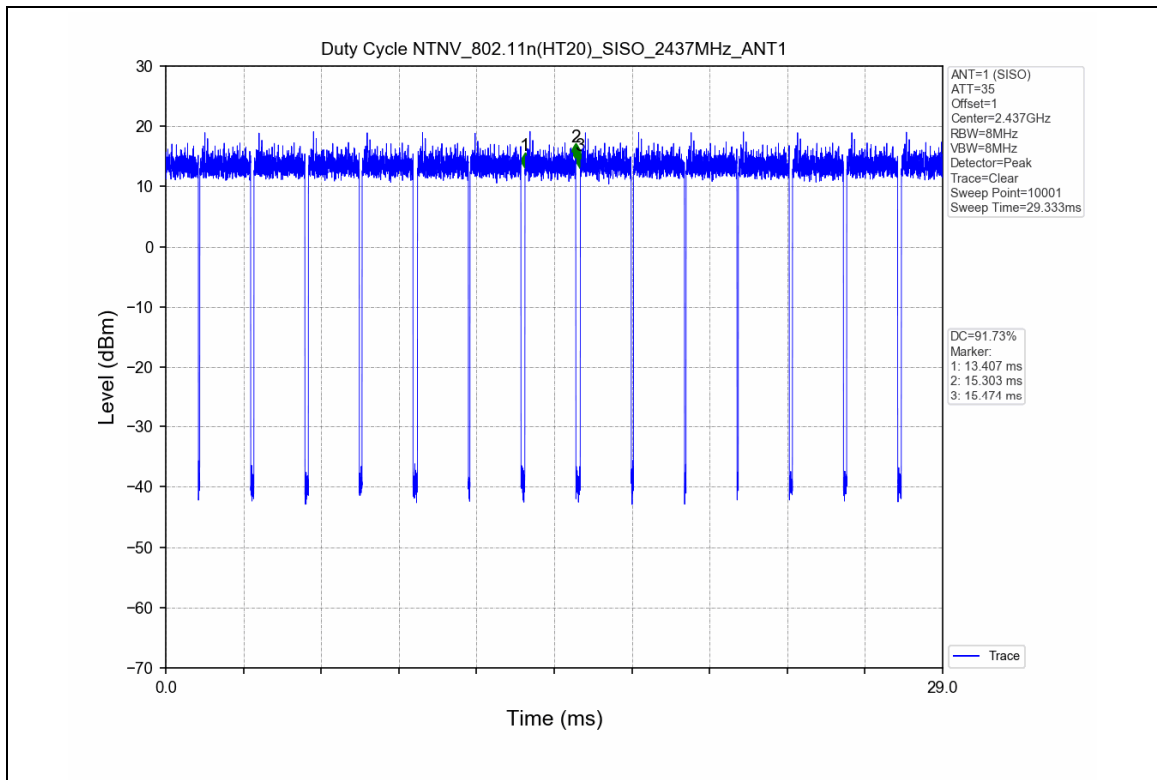
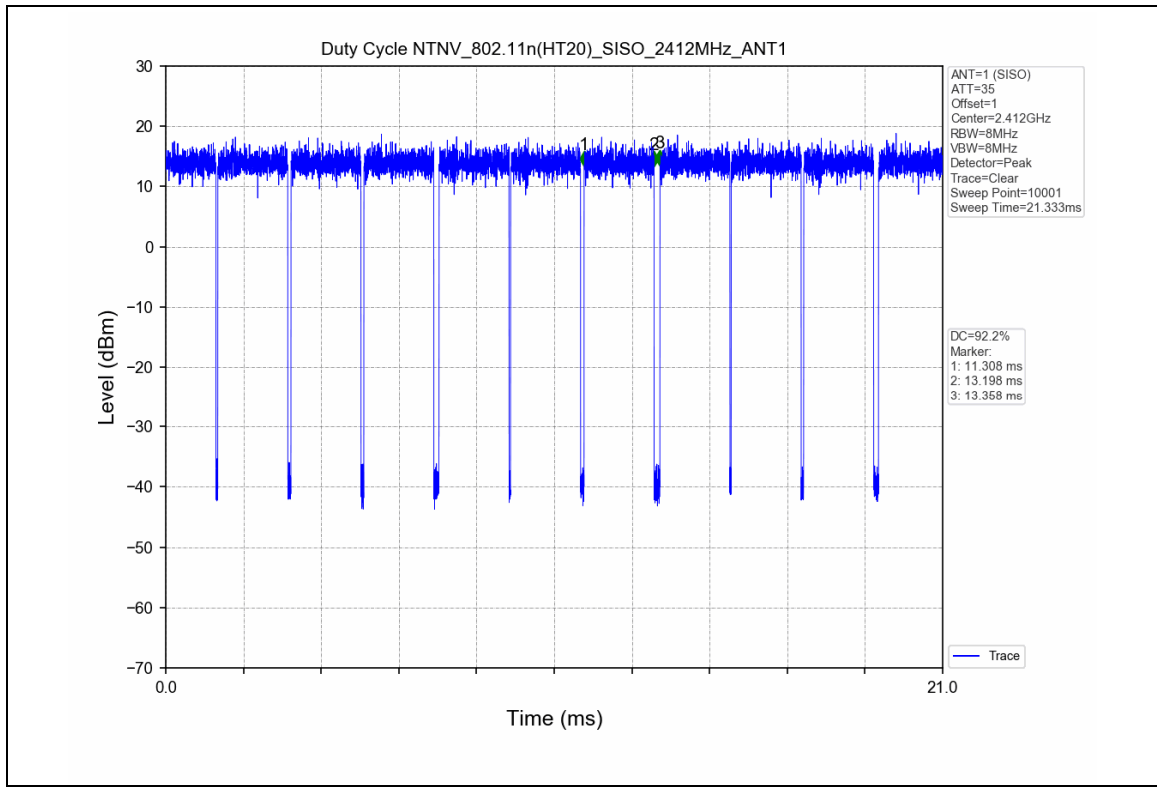


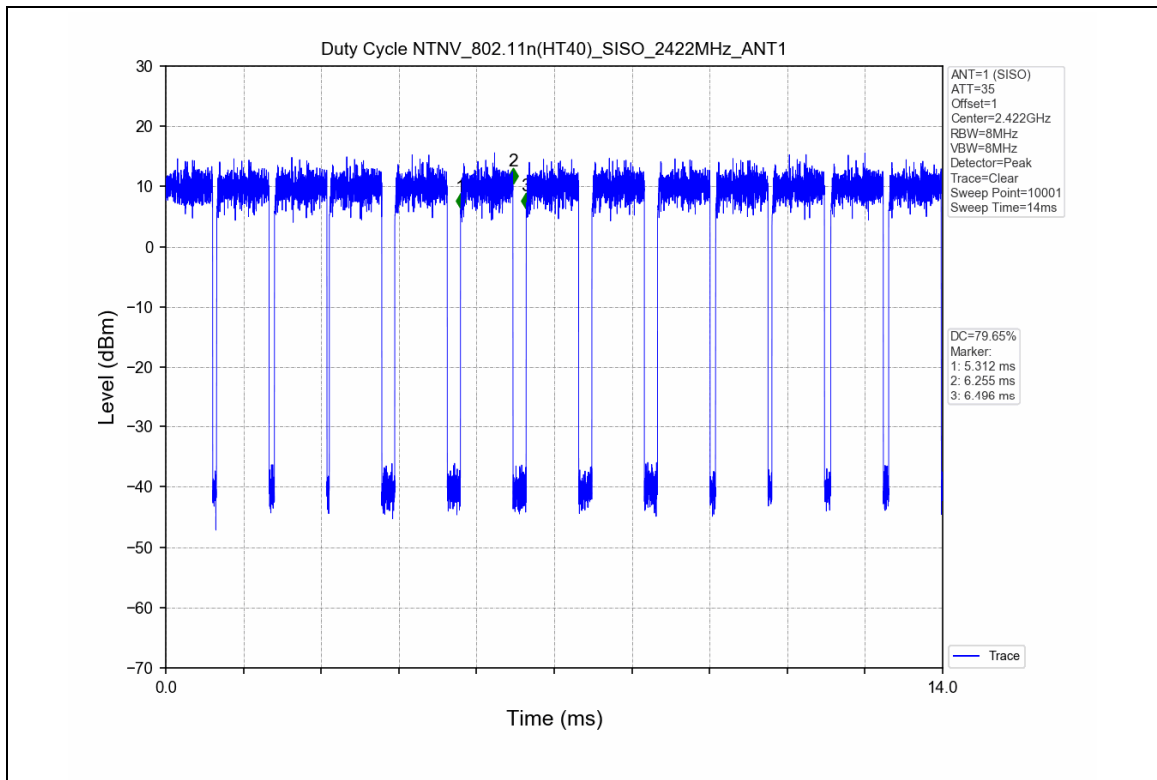
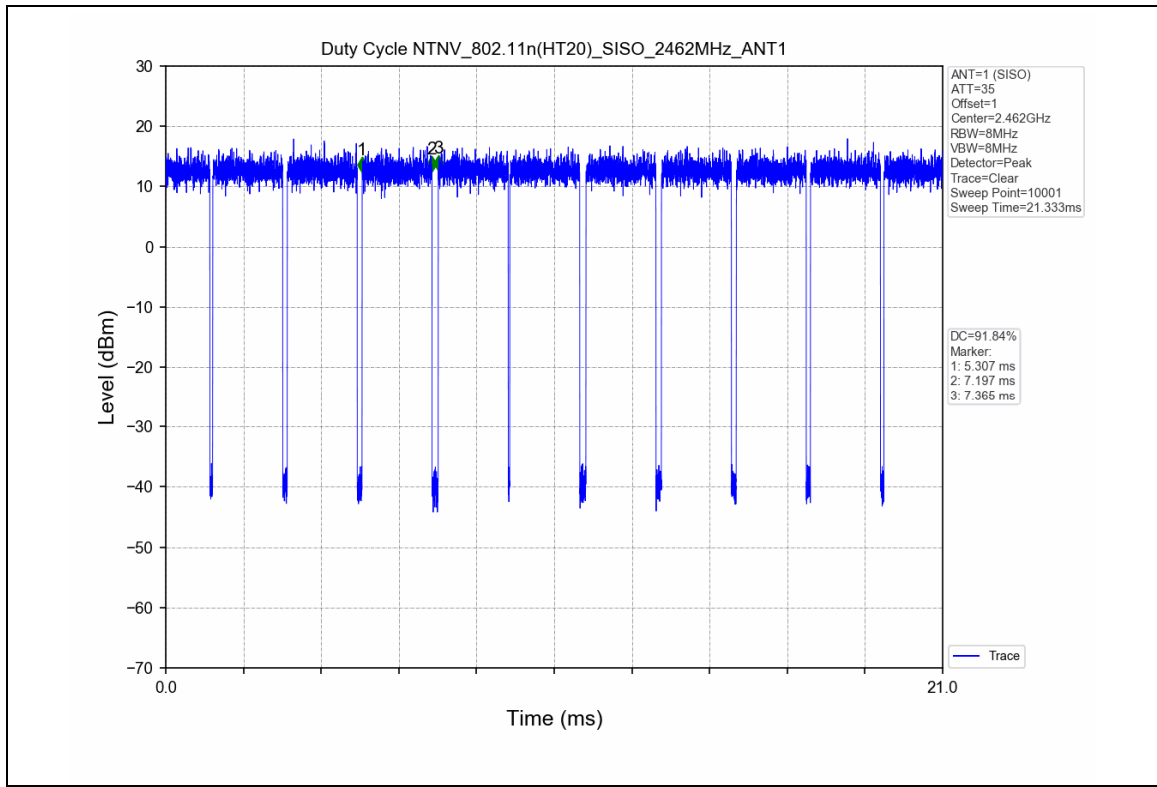
Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

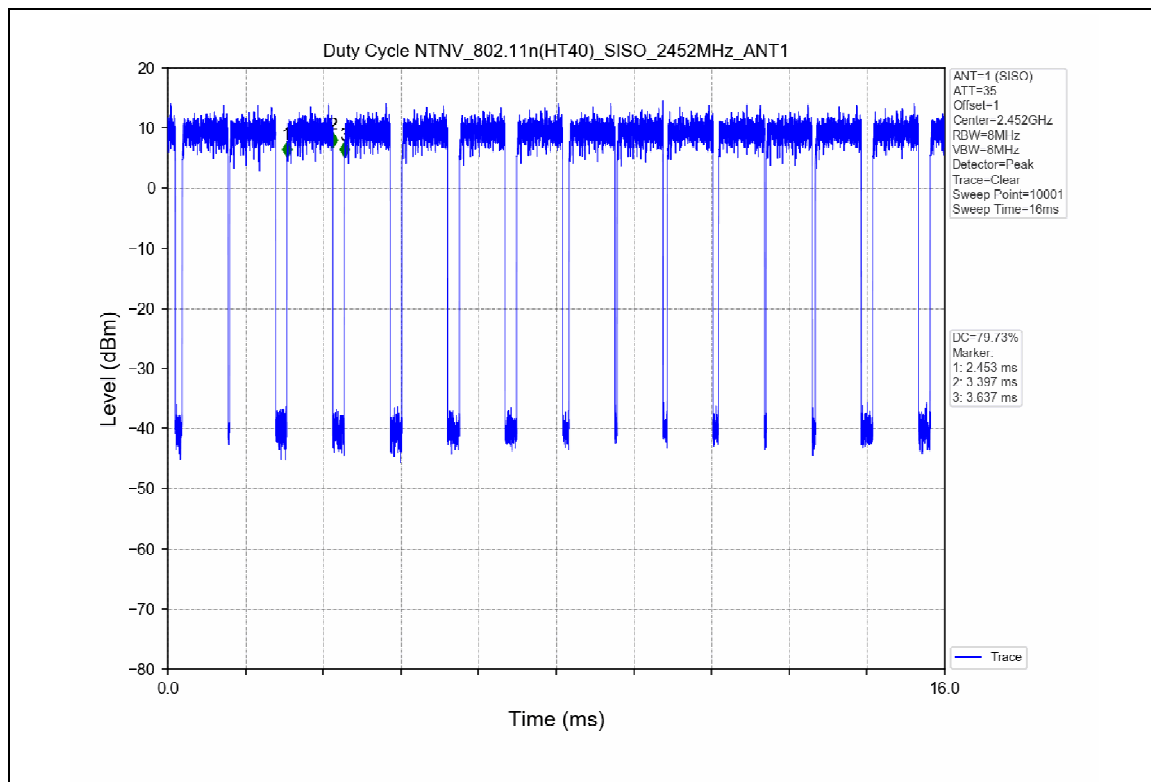
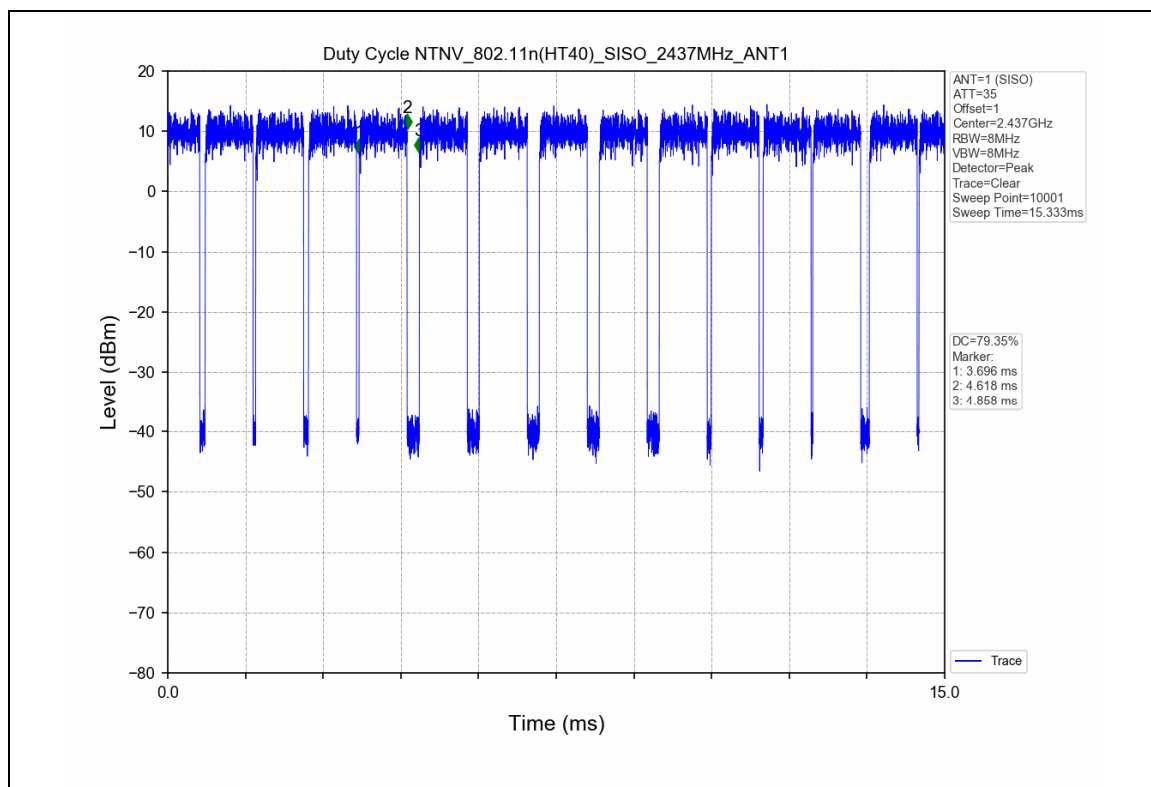
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com











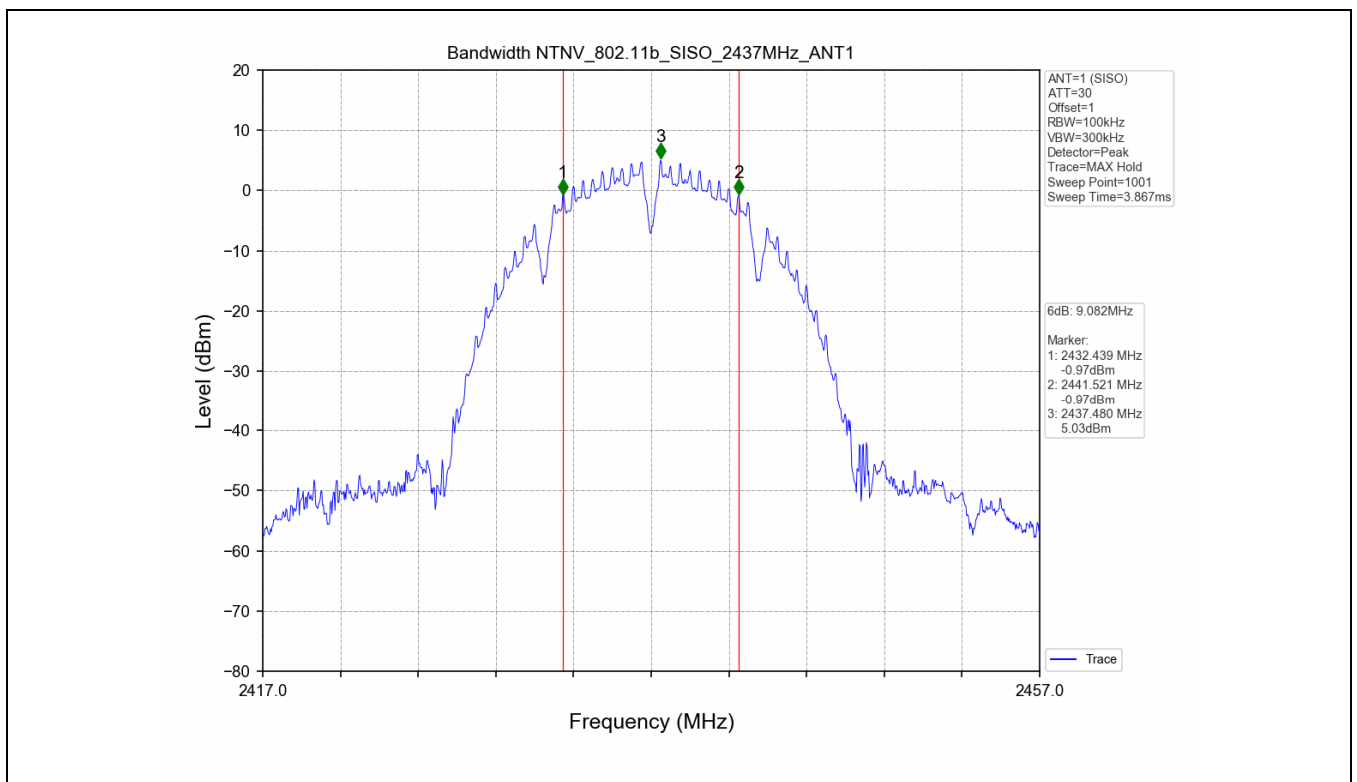
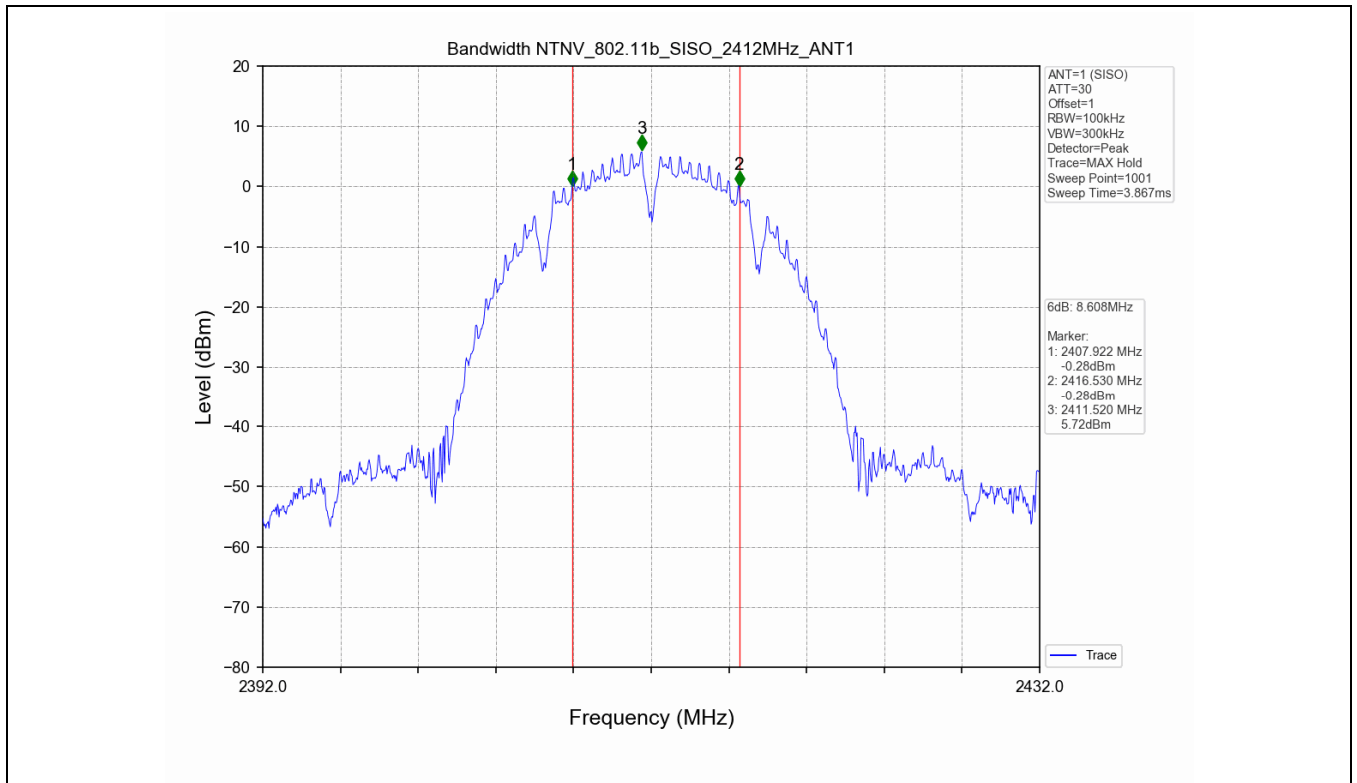
2. Bandwidth

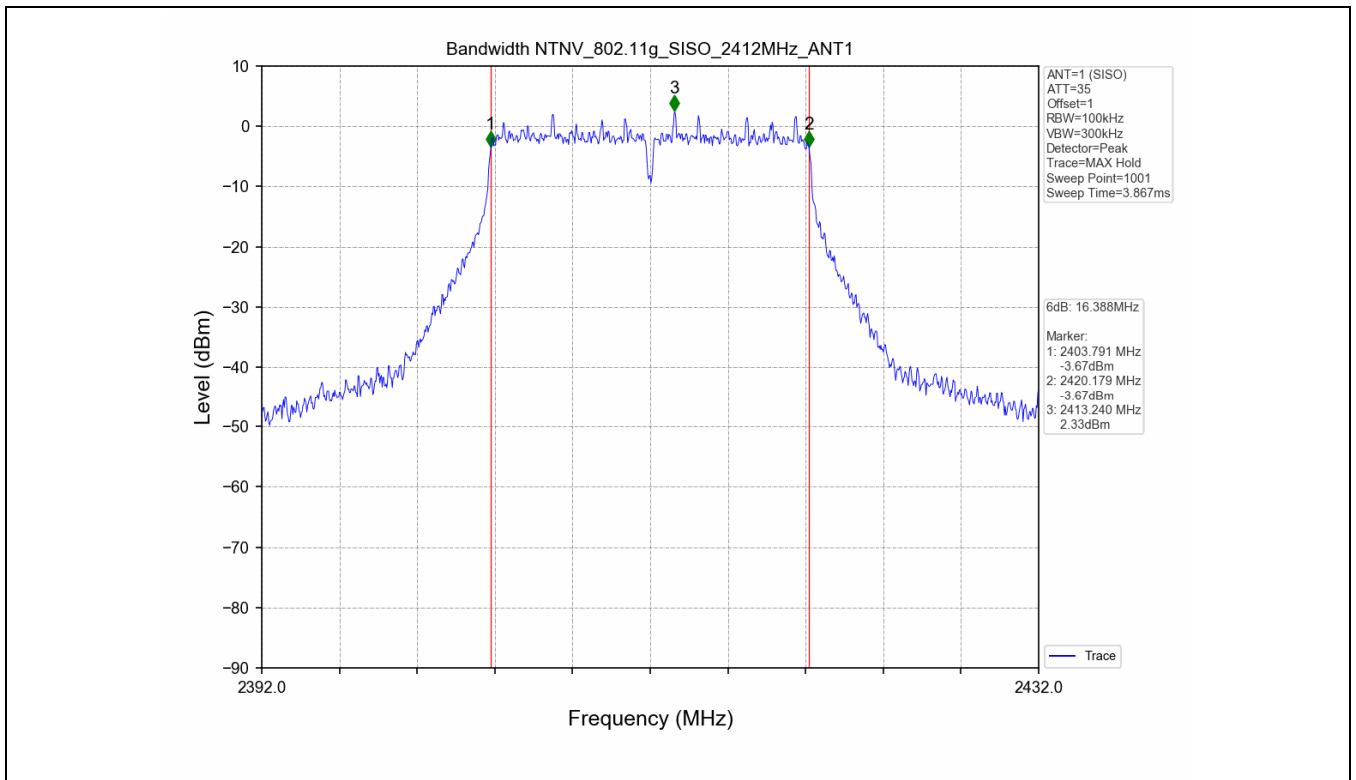
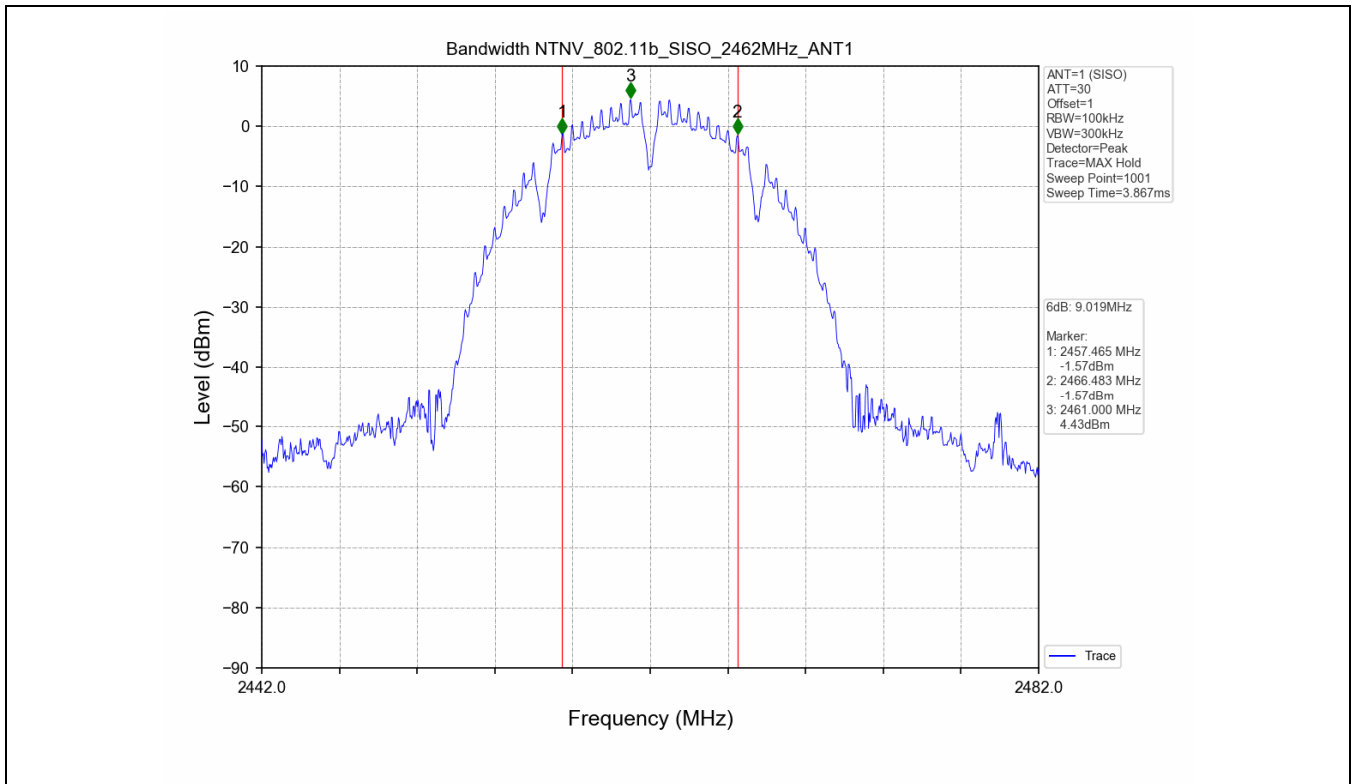
2.1 Test Result

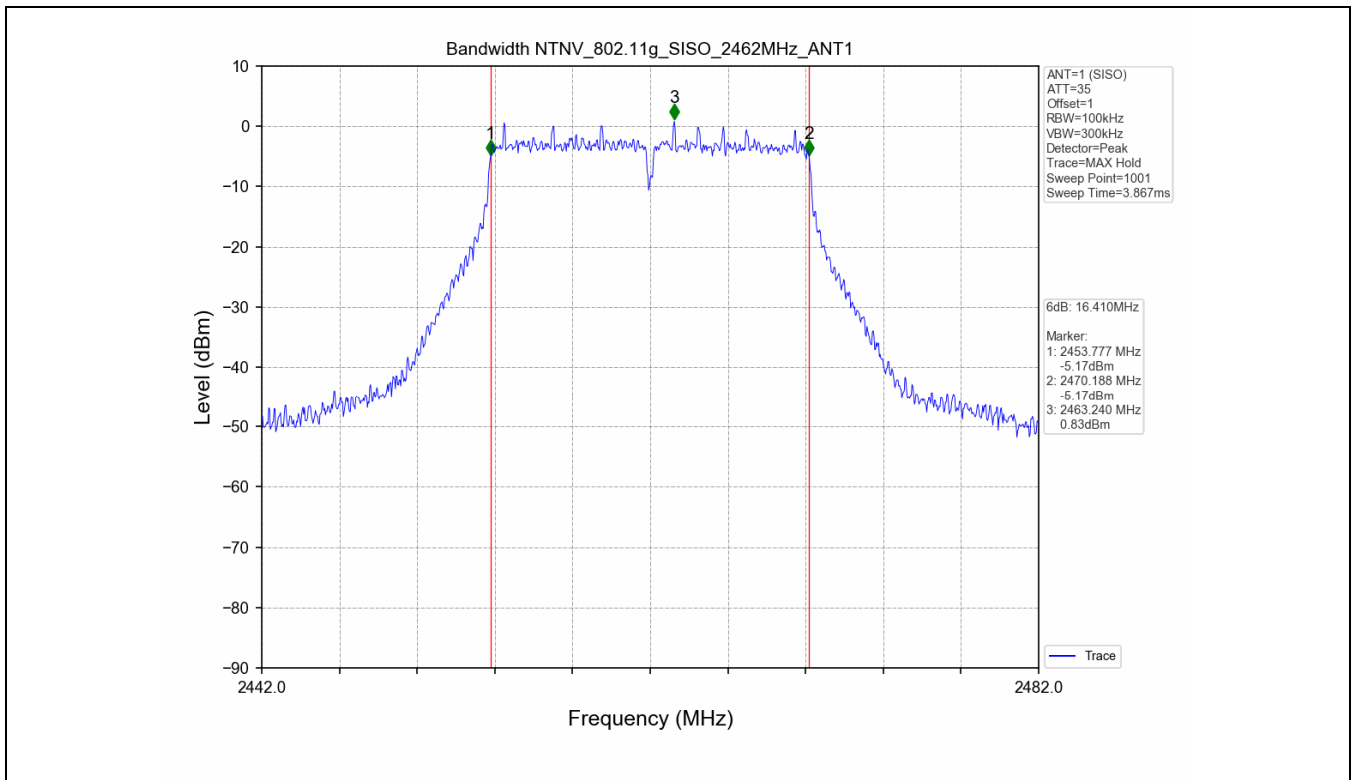
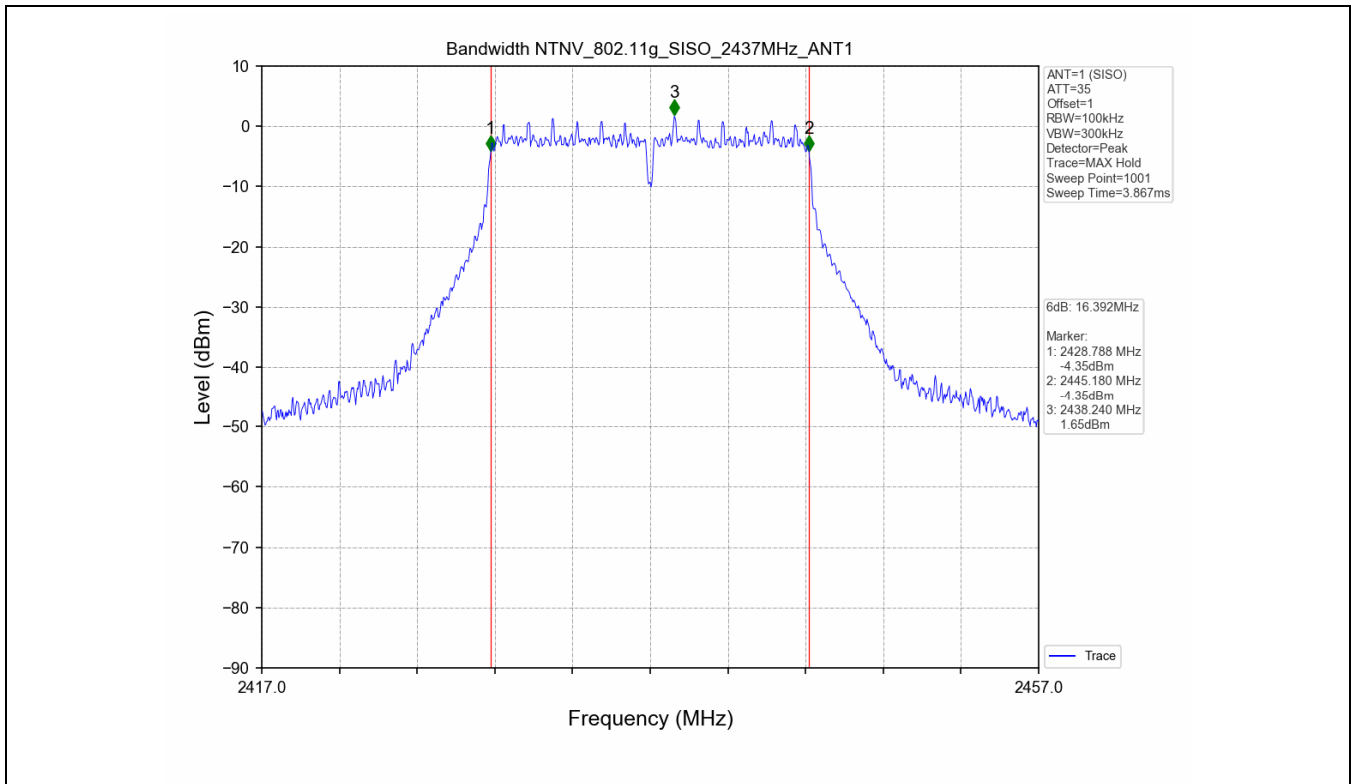
Test Mode	Frequency (MHz)	TX Type	ANT No.	6dB Bandwidth		Verdict
				Test Result (MHz)	Limits (MHz)	
802.11b	2412	SISO	1	8.608	≥0.5	PASS
	2437	SISO	1	9.082	≥0.5	PASS
	2462	SISO	1	9.019	≥0.5	PASS
802.11g	2412	SISO	1	16.388	≥0.5	PASS
	2437	SISO	1	16.392	≥0.5	PASS
	2462	SISO	1	16.410	≥0.5	PASS
802.11n(HT20)	2412	SISO	1	17.567	≥0.5	PASS
	2437	SISO	1	17.579	≥0.5	PASS
	2462	SISO	1	17.566	≥0.5	PASS
802.11n(HT40)	2422	SISO	1	35.594	≥0.5	PASS
	2437	SISO	1	35.587	≥0.5	PASS
	2452	SISO	1	35.760	≥0.5	PASS

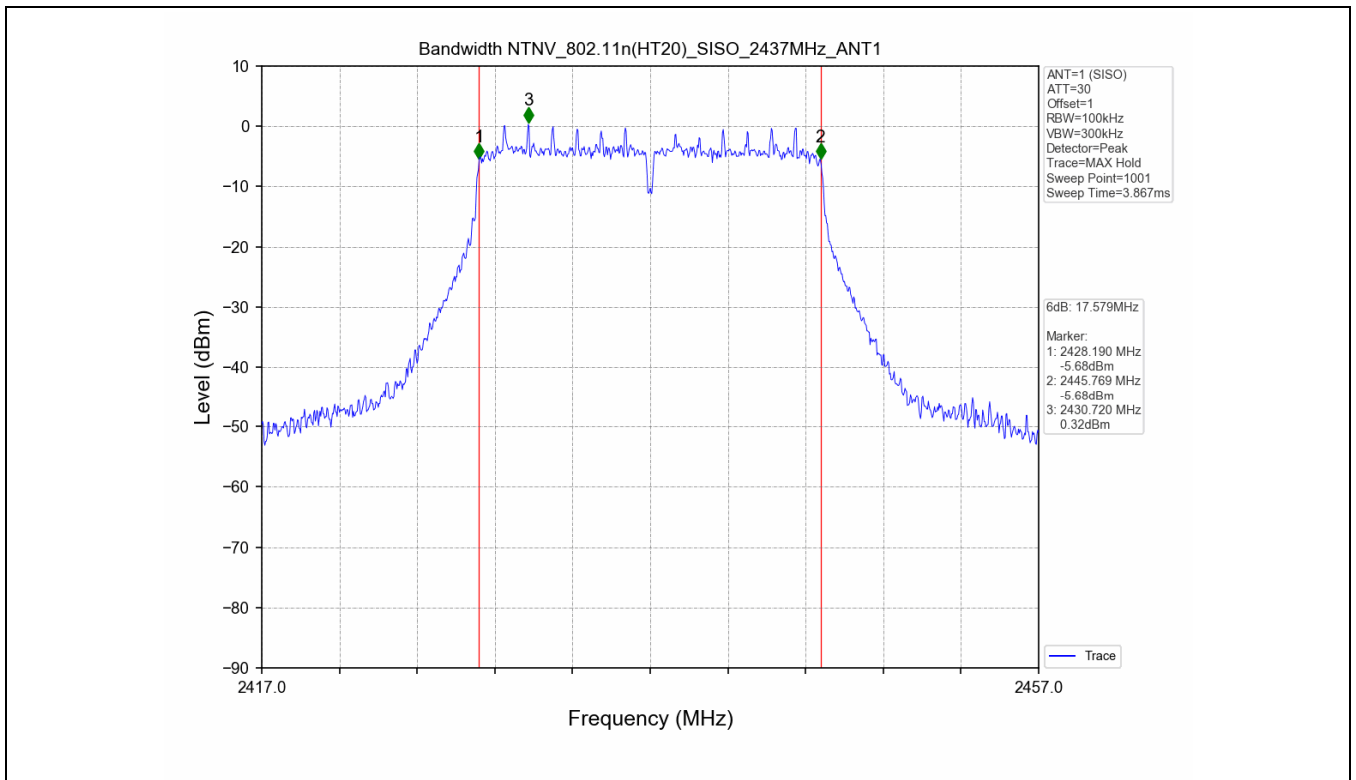
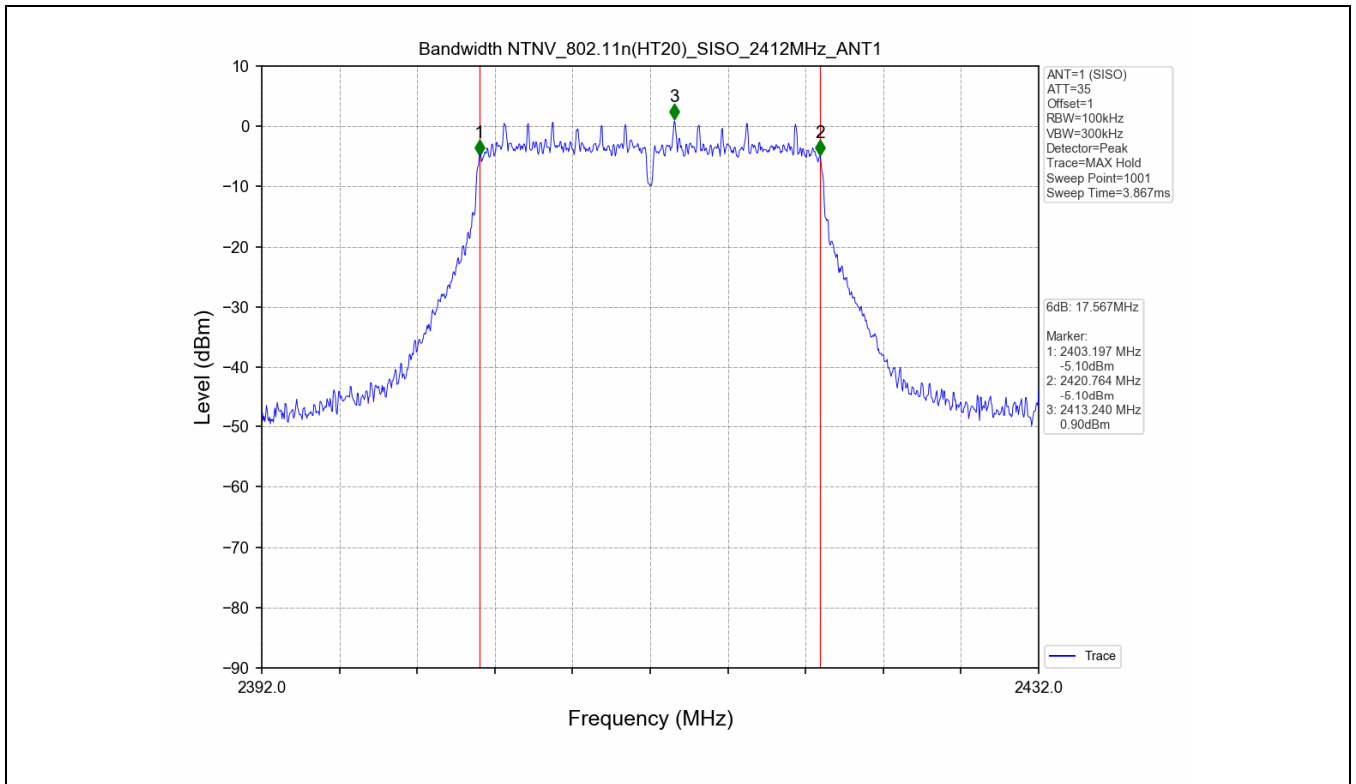
Test Mode	Frequency (MHz)	TX Type	ANT No.	99% Occupied Bandwidth	
				Test Result (MHz)	
802.11b	2412	SISO	1	13.511	Only for Report Use
	2437	SISO	1	13.508	Only for Report Use
	2462	SISO	1	13.473	Only for Report Use
802.11g	2412	SISO	1	16.846	Only for Report Use
	2437	SISO	1	16.850	Only for Report Use
	2462	SISO	1	16.935	Only for Report Use
802.11n(HT20)	2412	SISO	1	17.869	Only for Report Use
	2437	SISO	1	17.858	Only for Report Use
	2462	SISO	1	17.838	Only for Report Use
802.11n(HT40)	2422	SISO	1	36.503	Only for Report Use
	2437	SISO	1	36.663	Only for Report Use
	2452	SISO	1	36.640	Only for Report Use

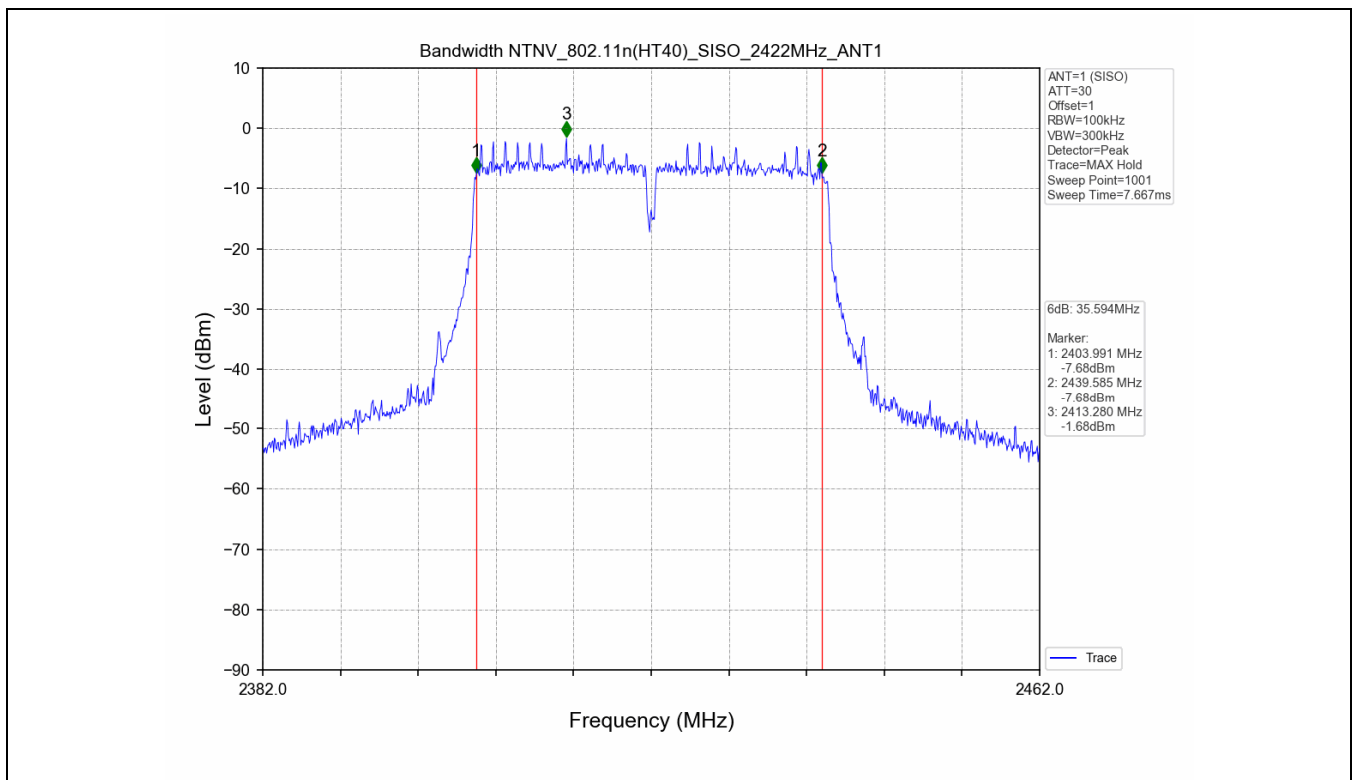
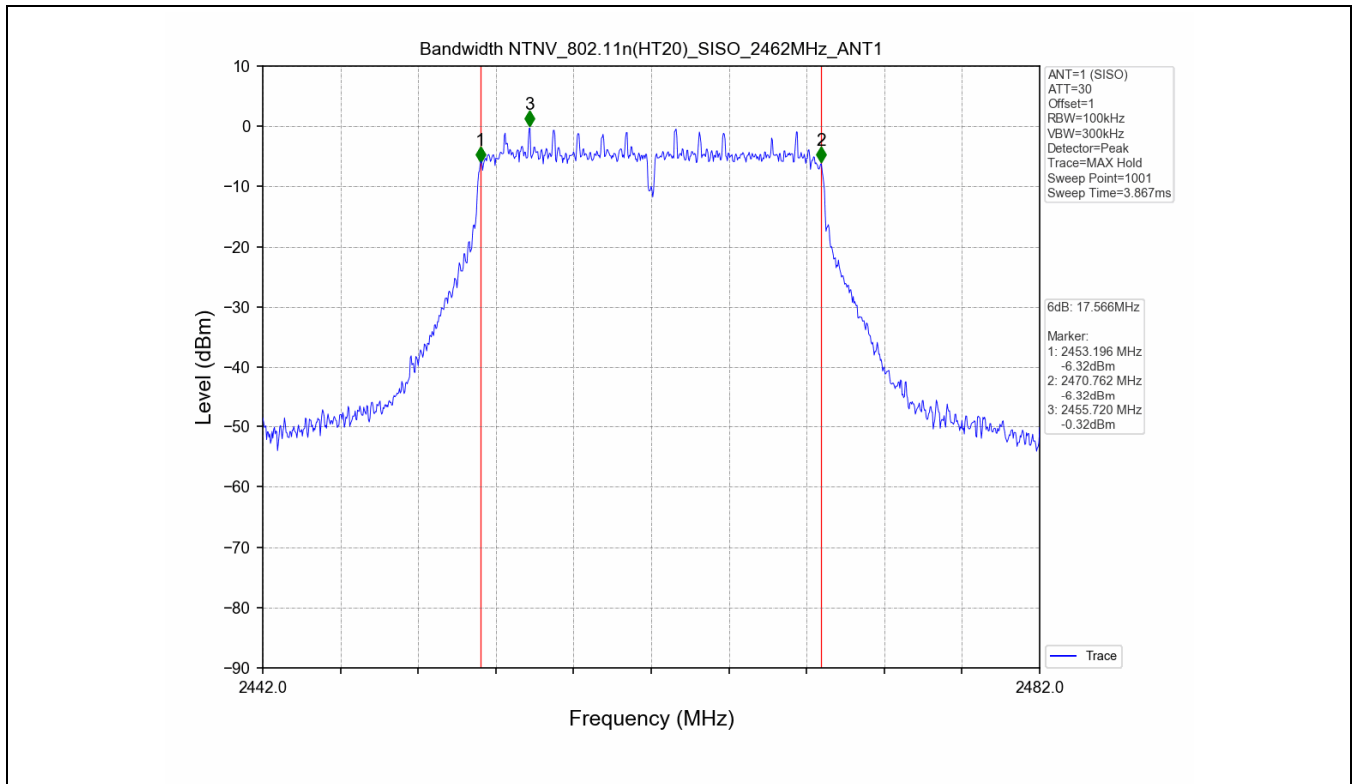
2.2 Test Graph - 6dB Bandwidth

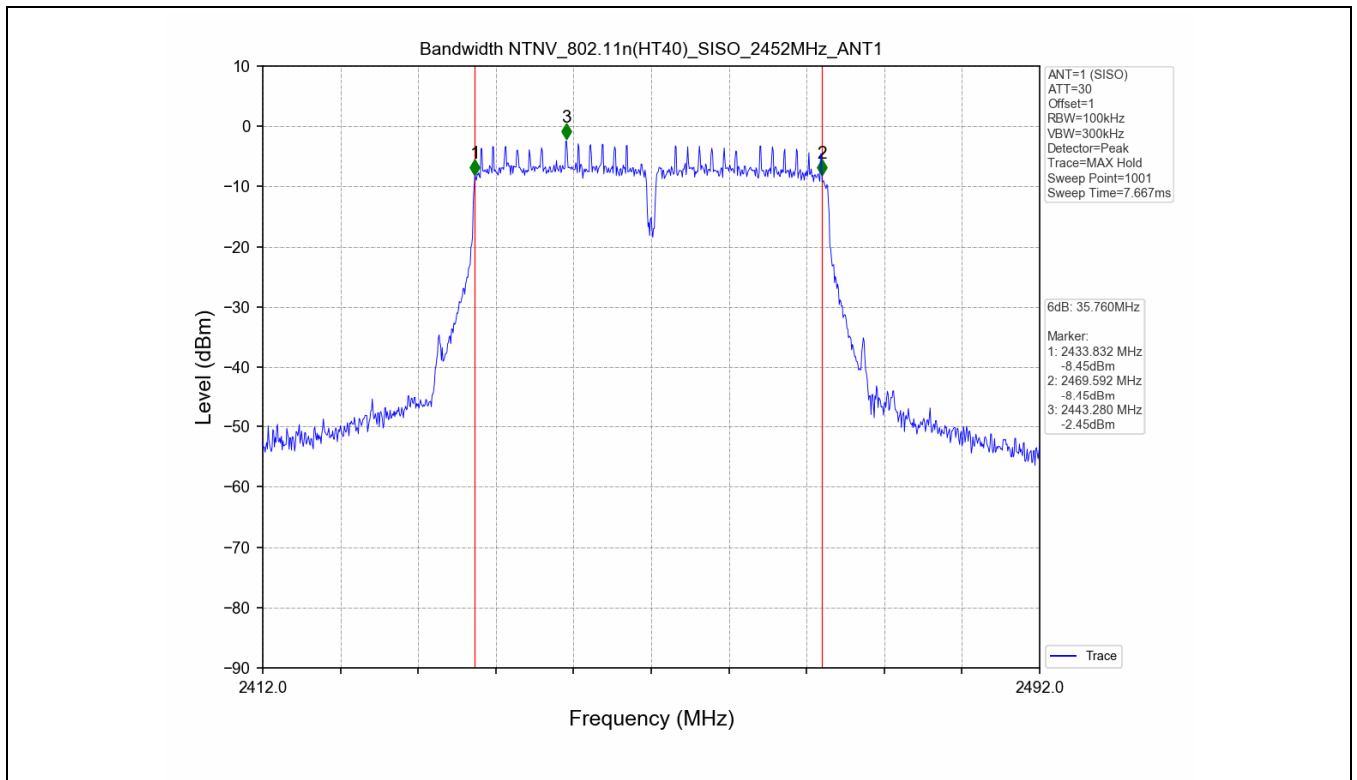
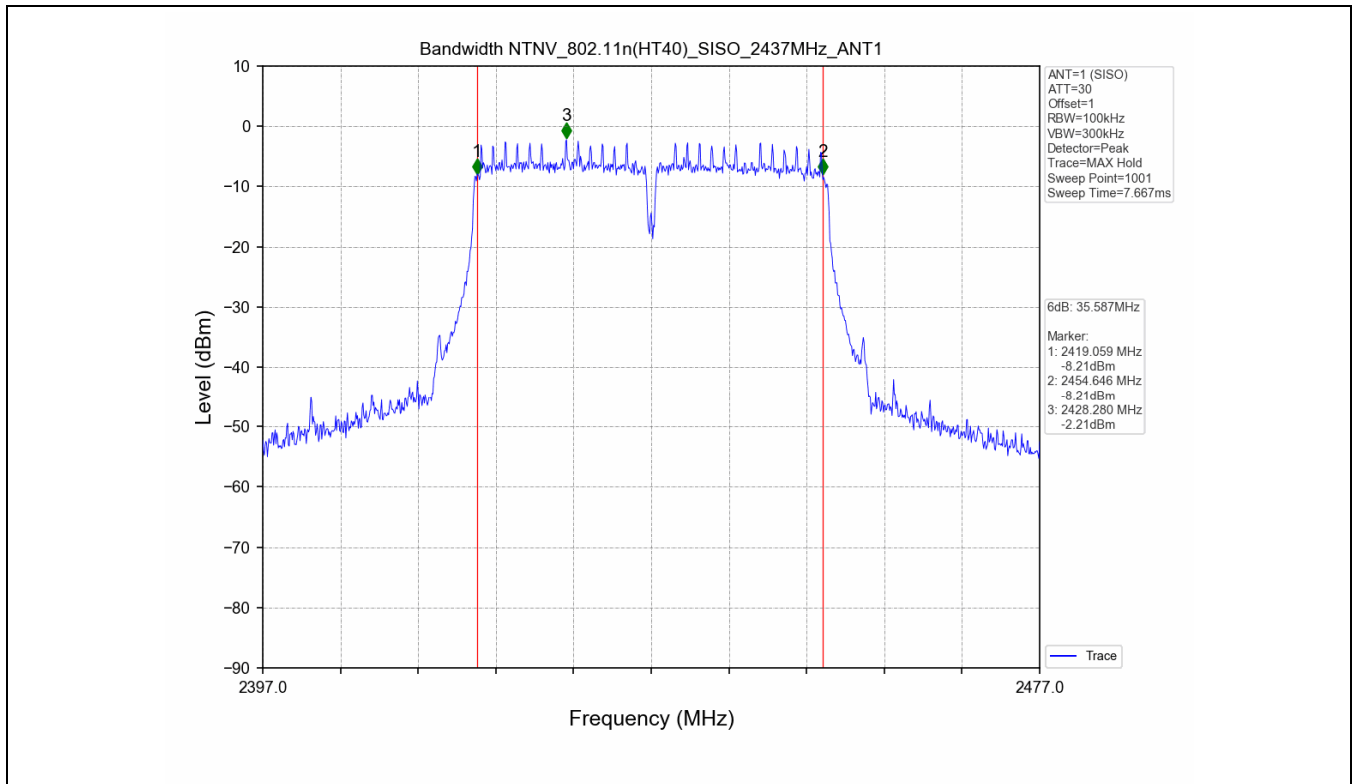




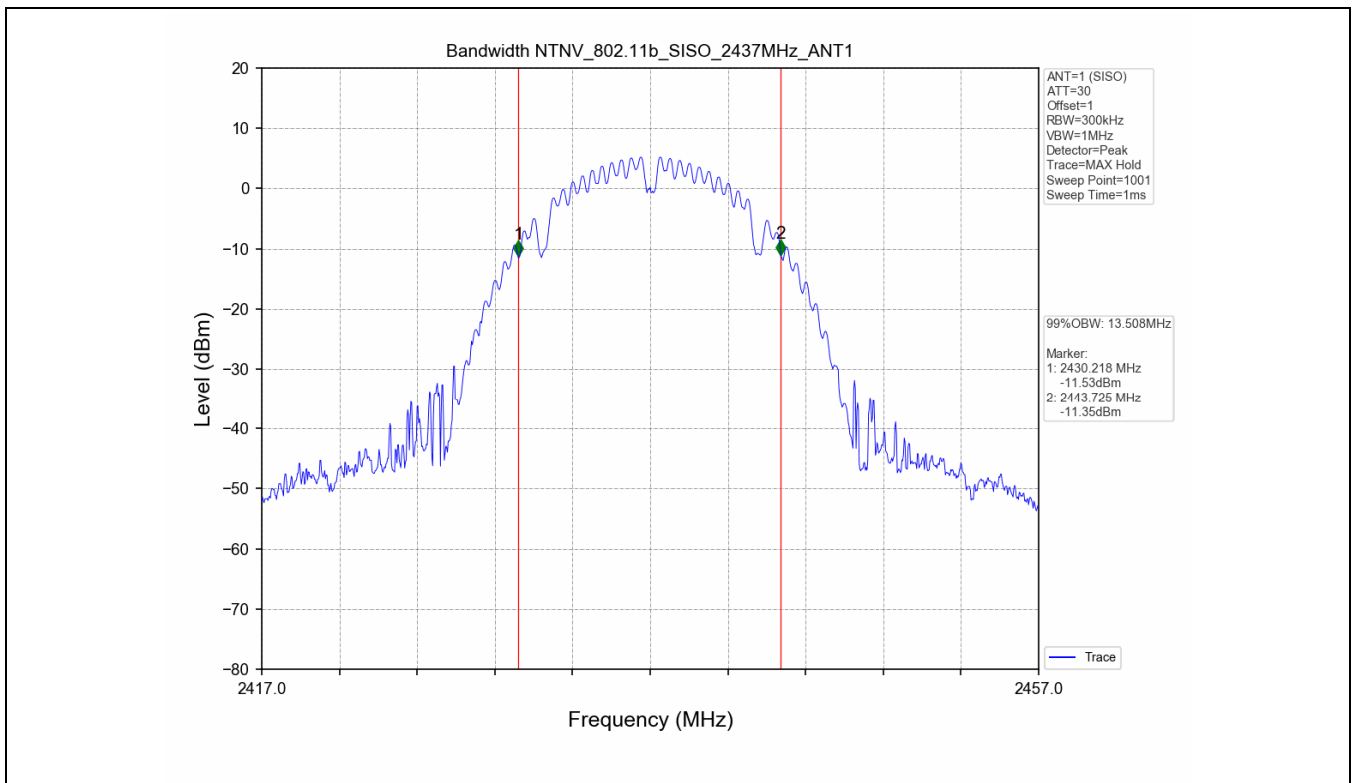
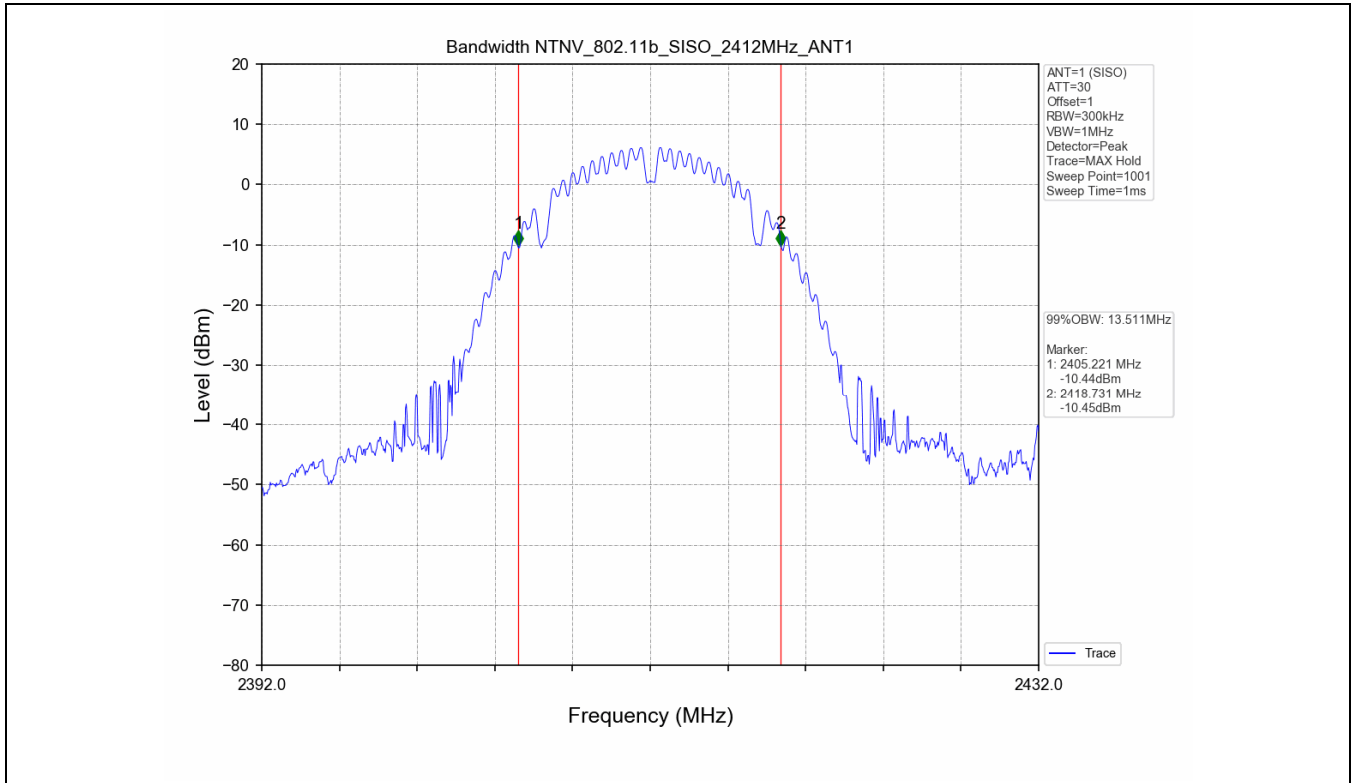


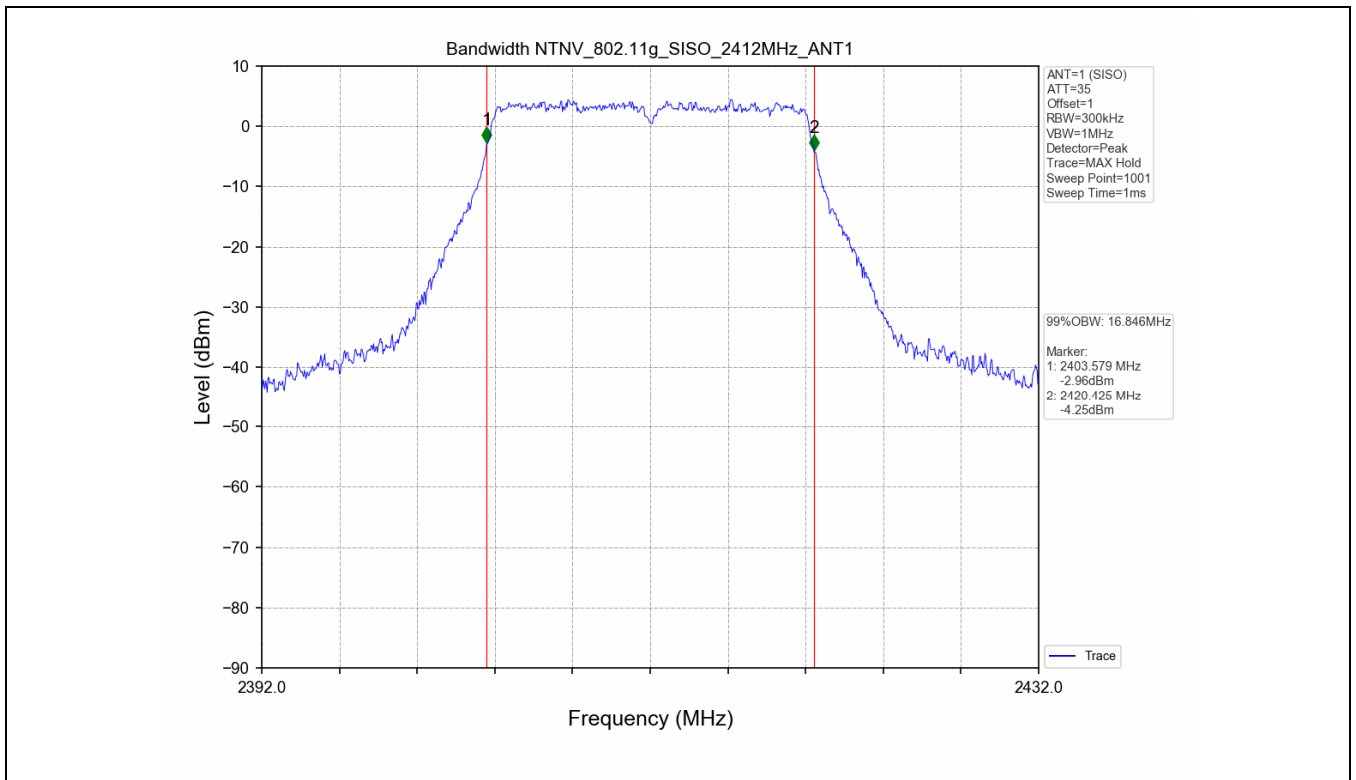
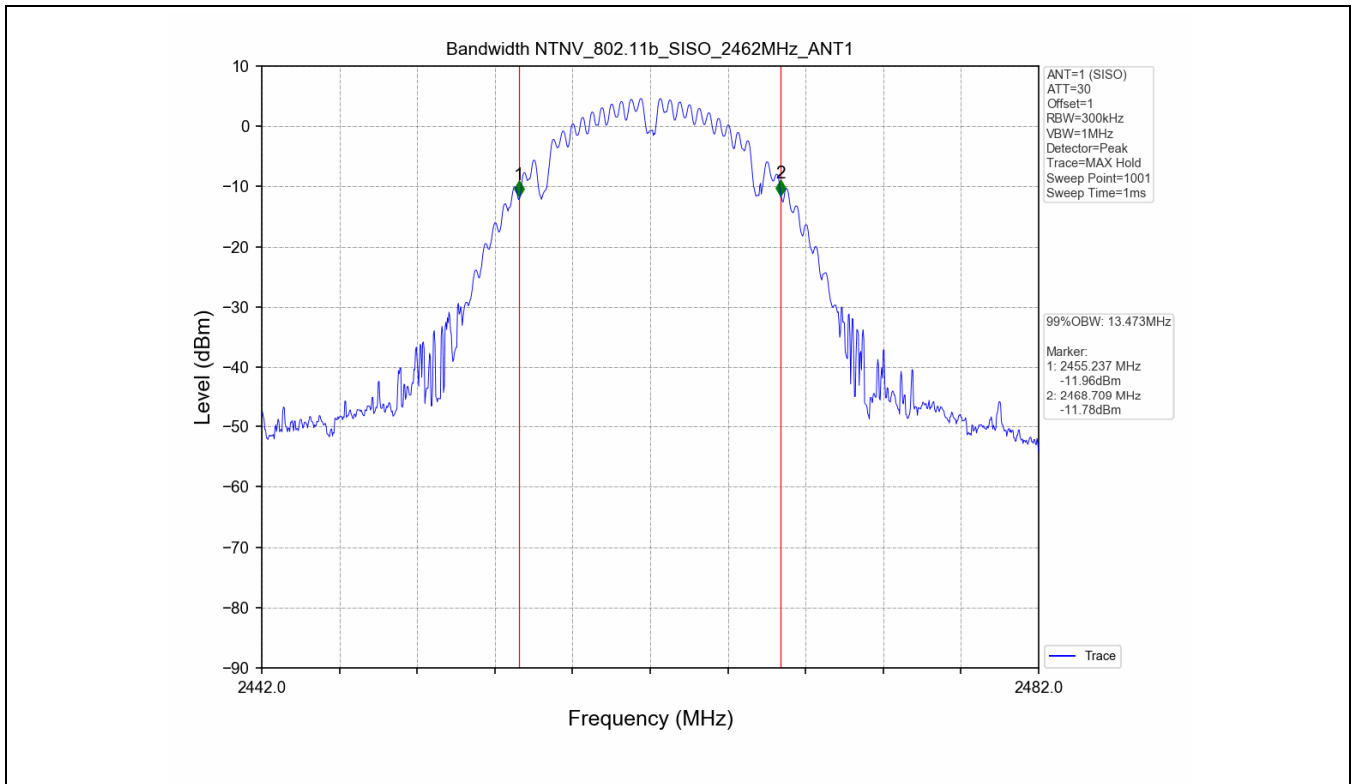


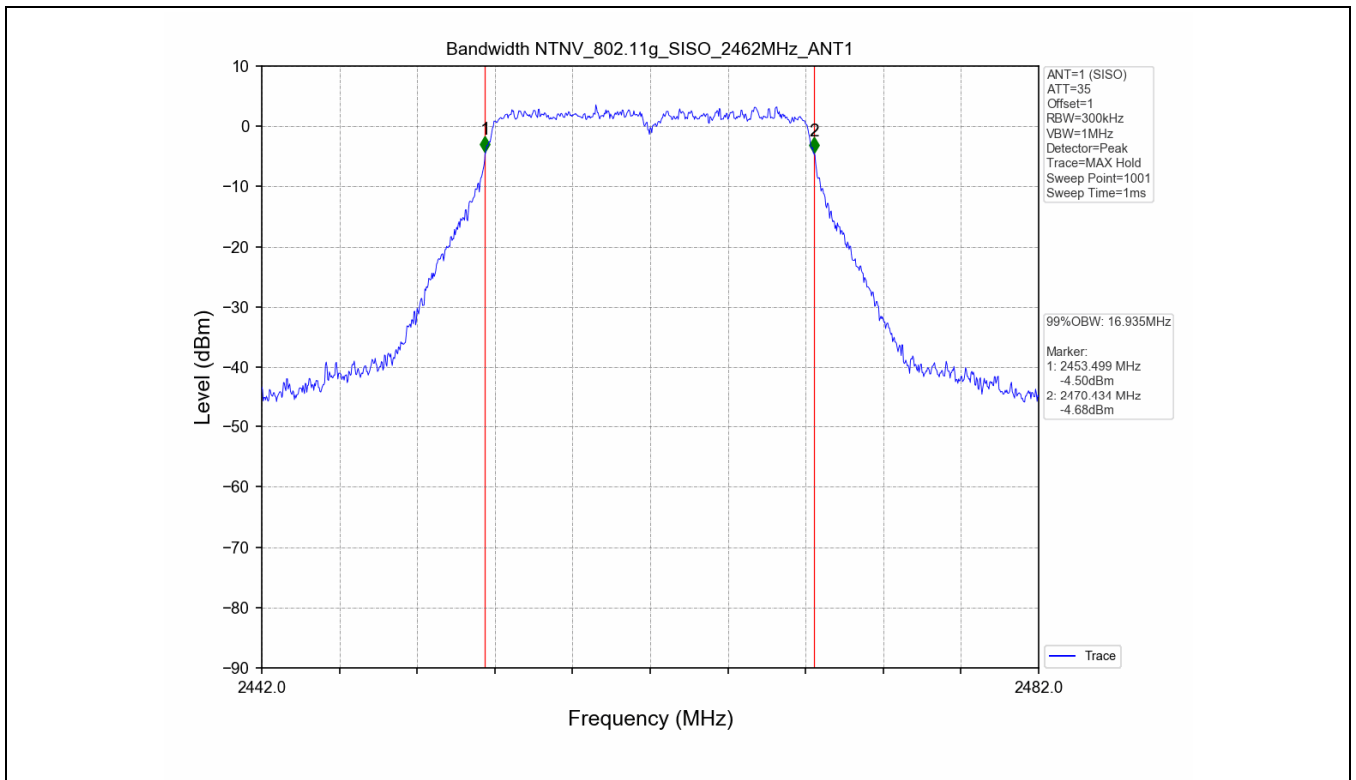
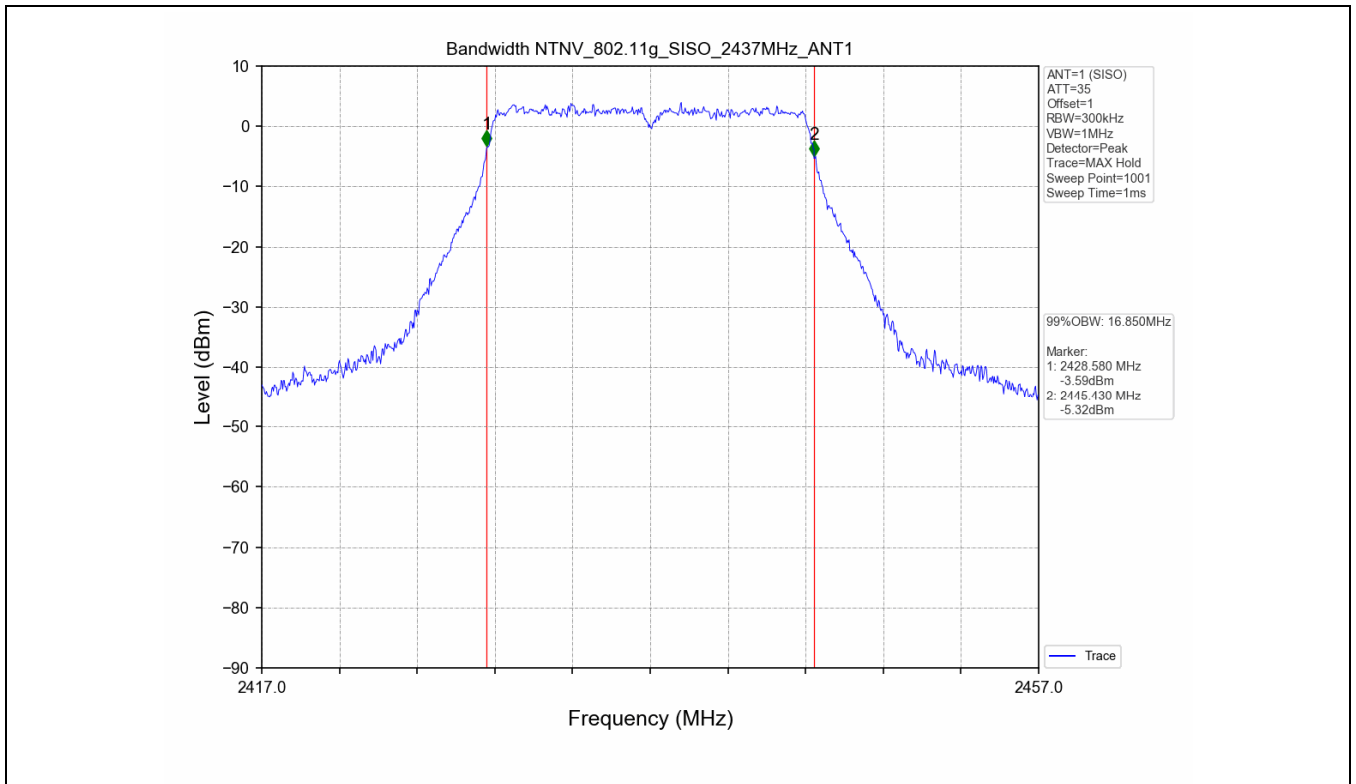


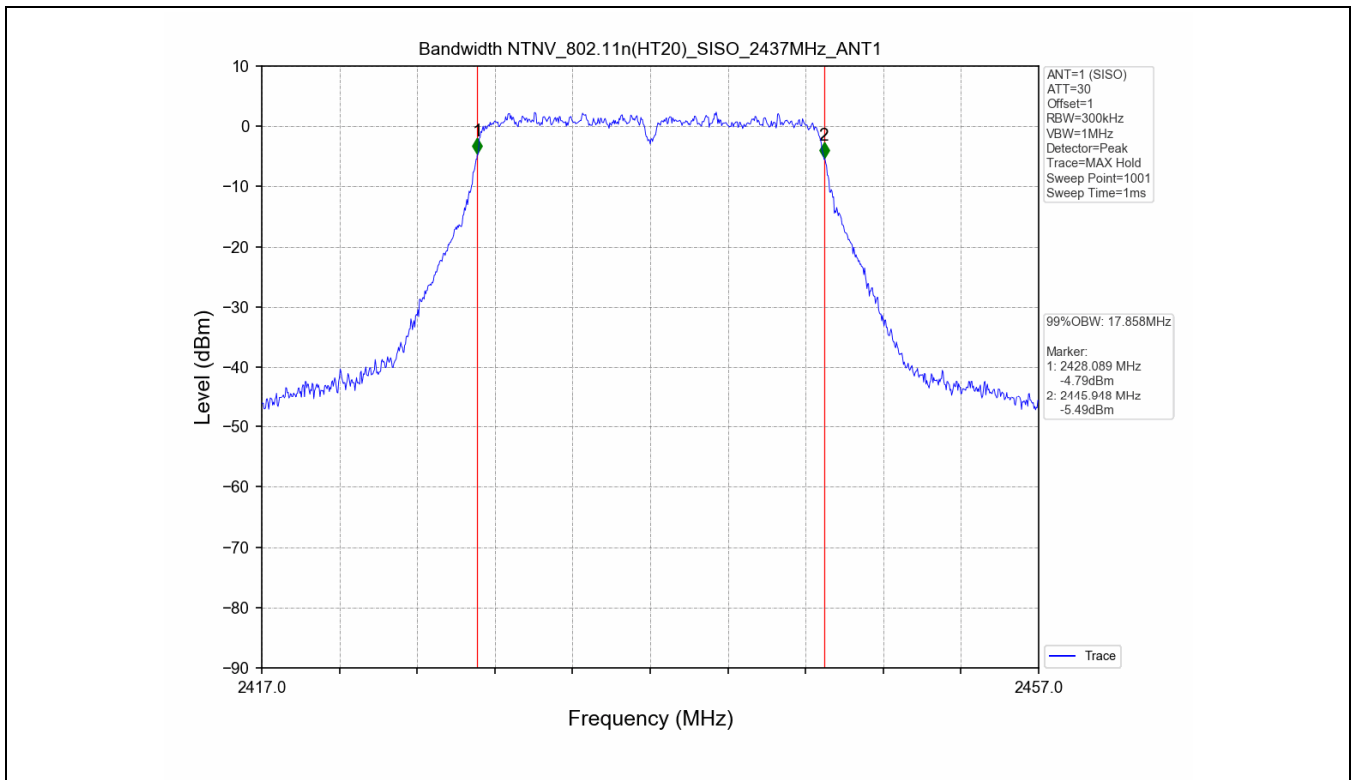
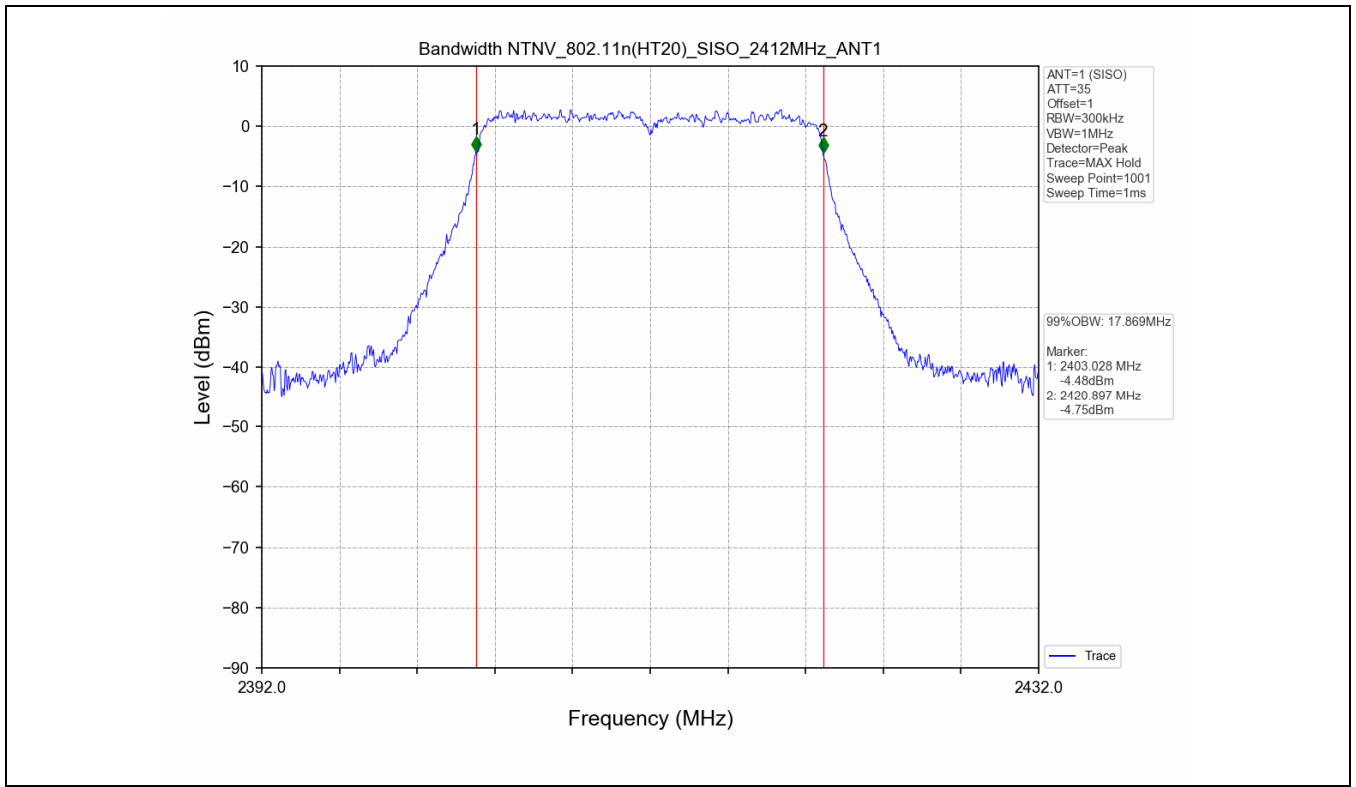


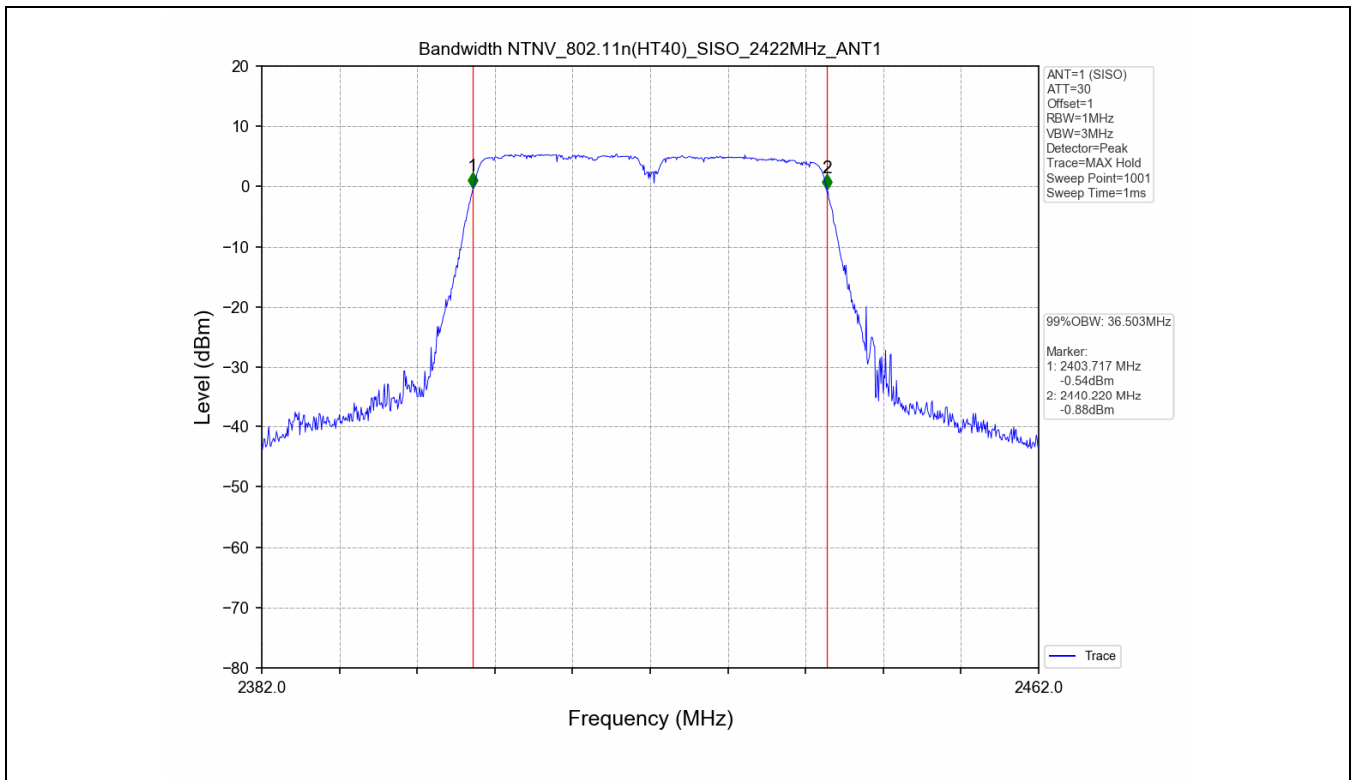
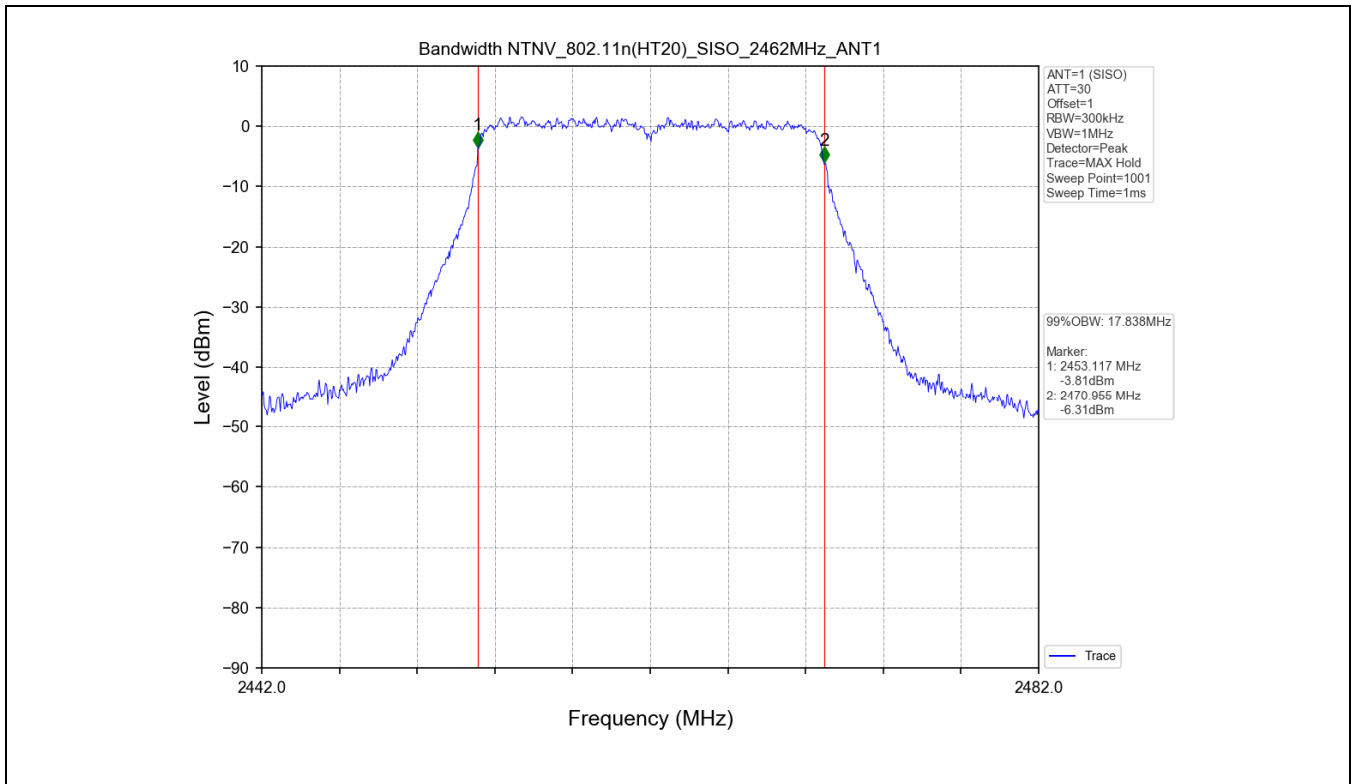
2.3 Test Graph - 99% Occupied Bandwidth

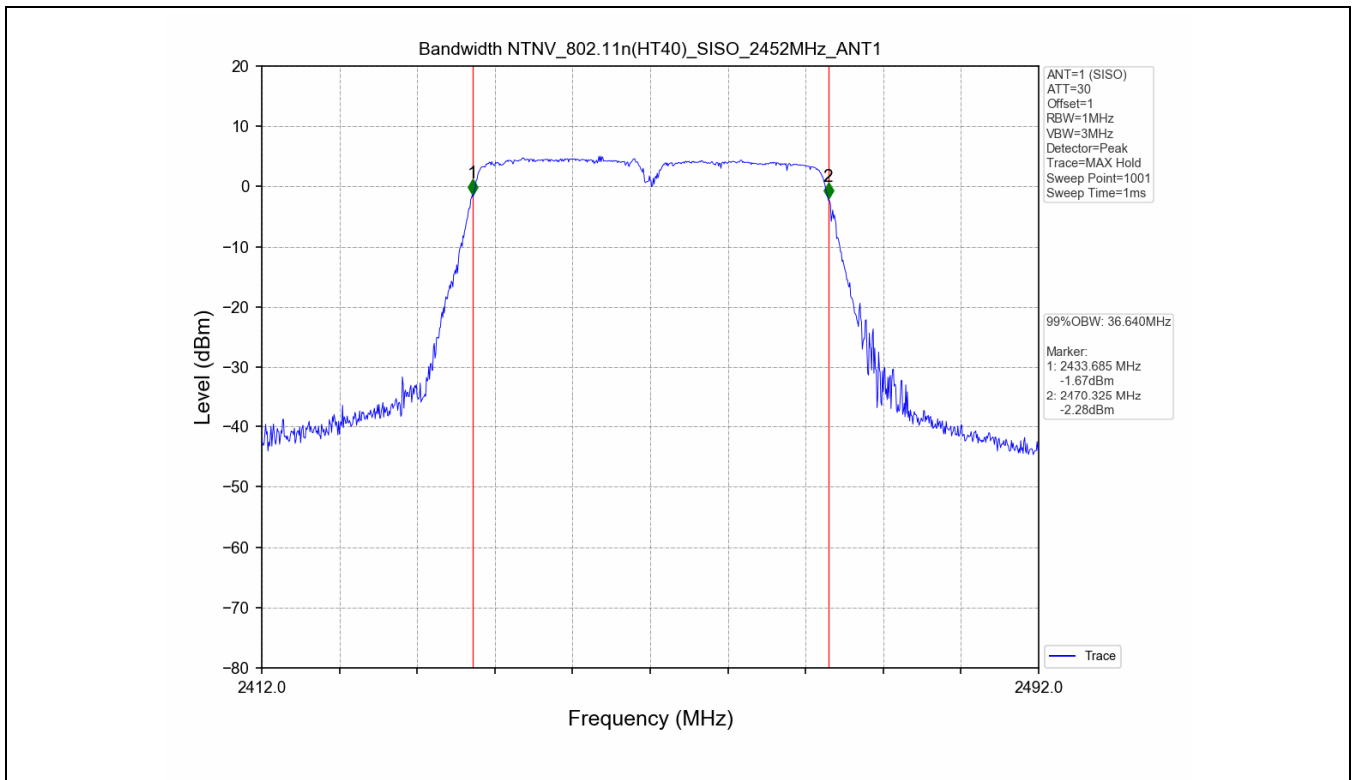
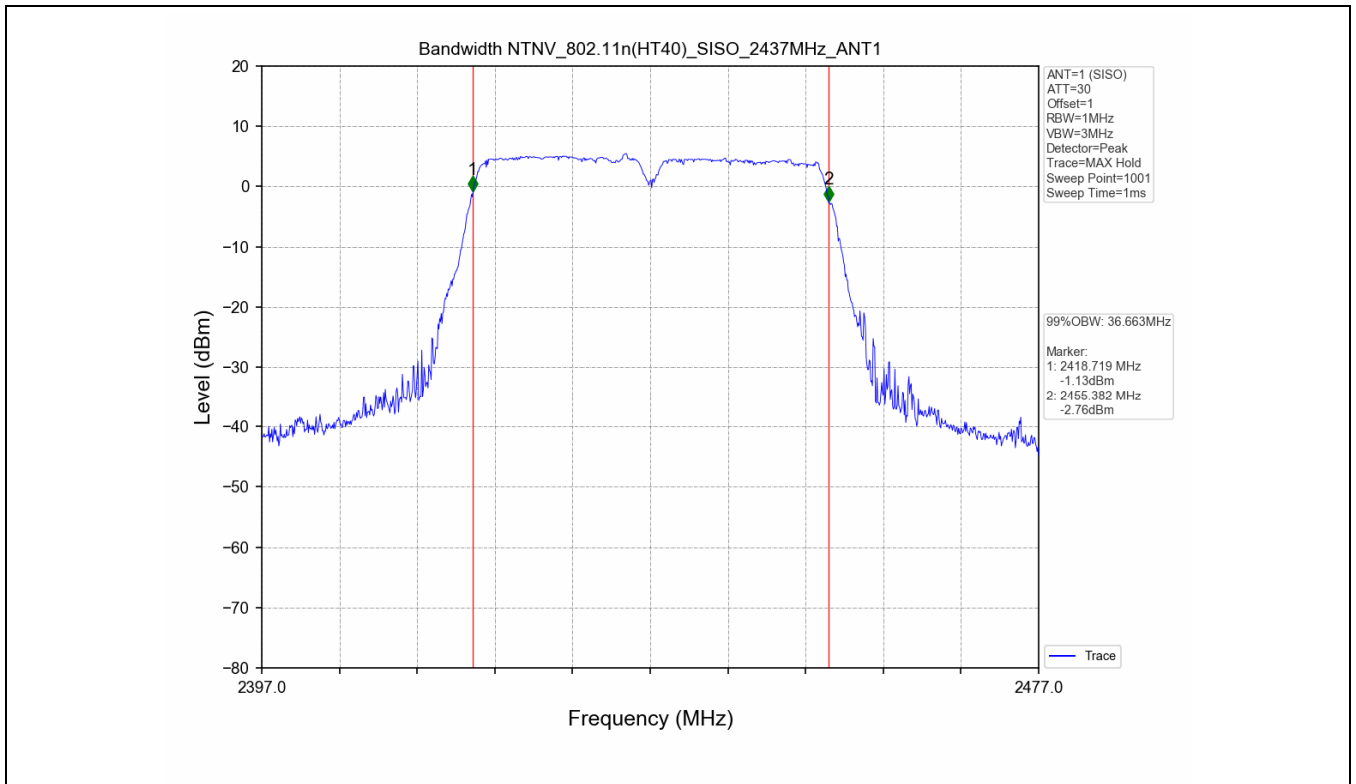










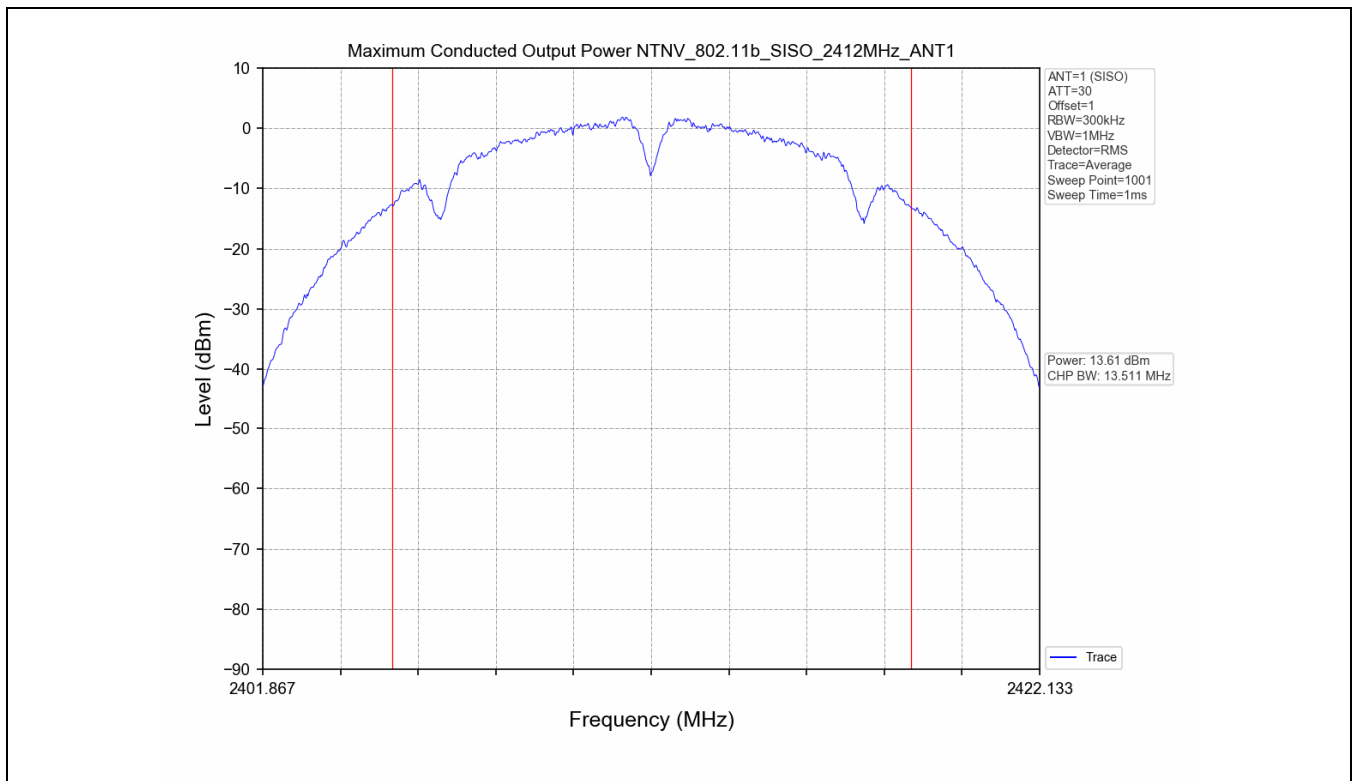


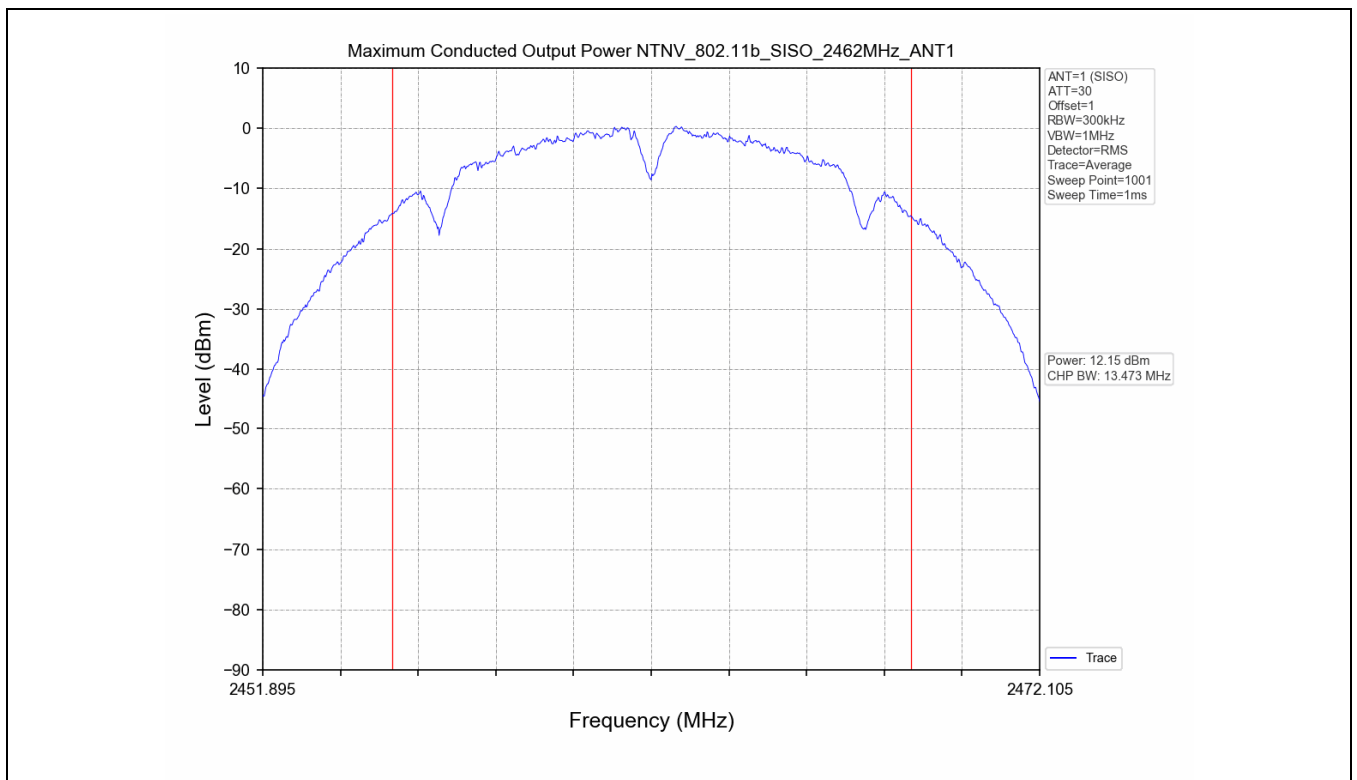
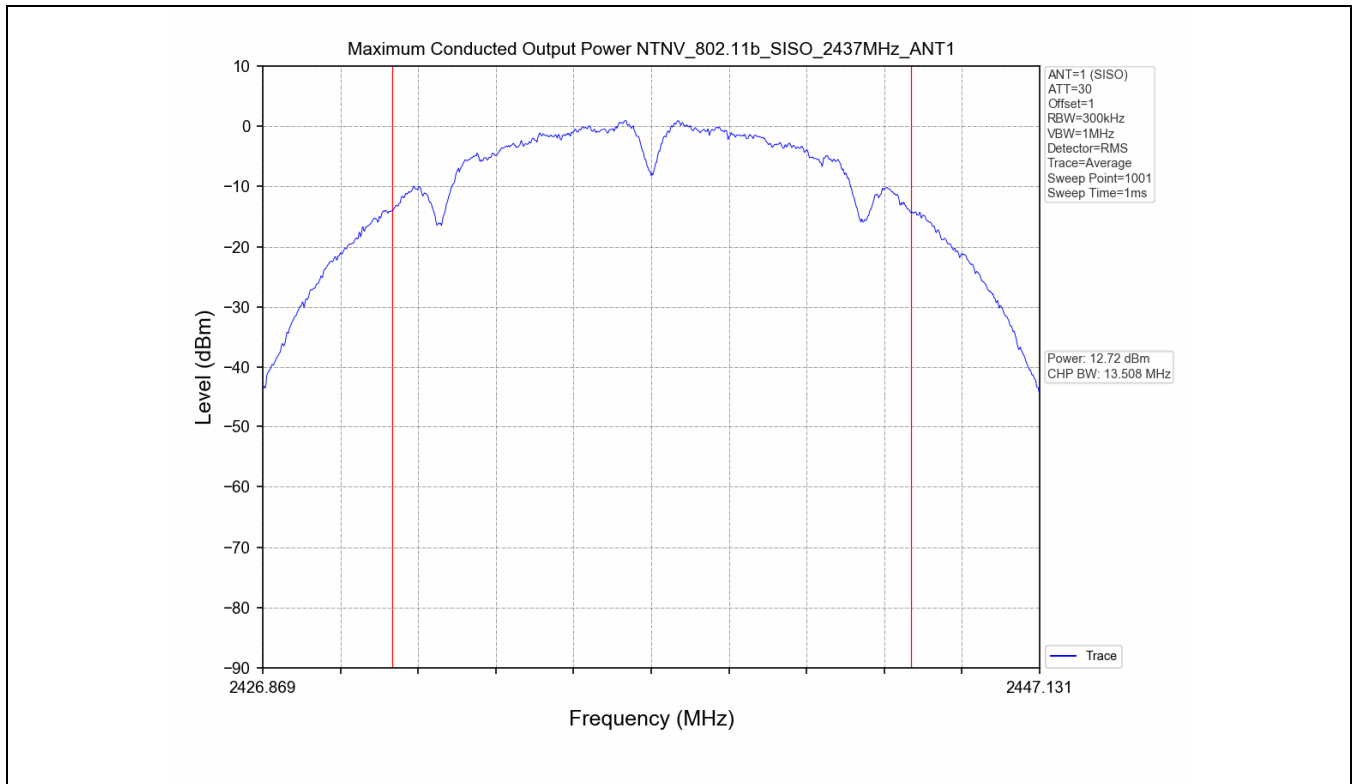
3. Maximum Conducted Output Power

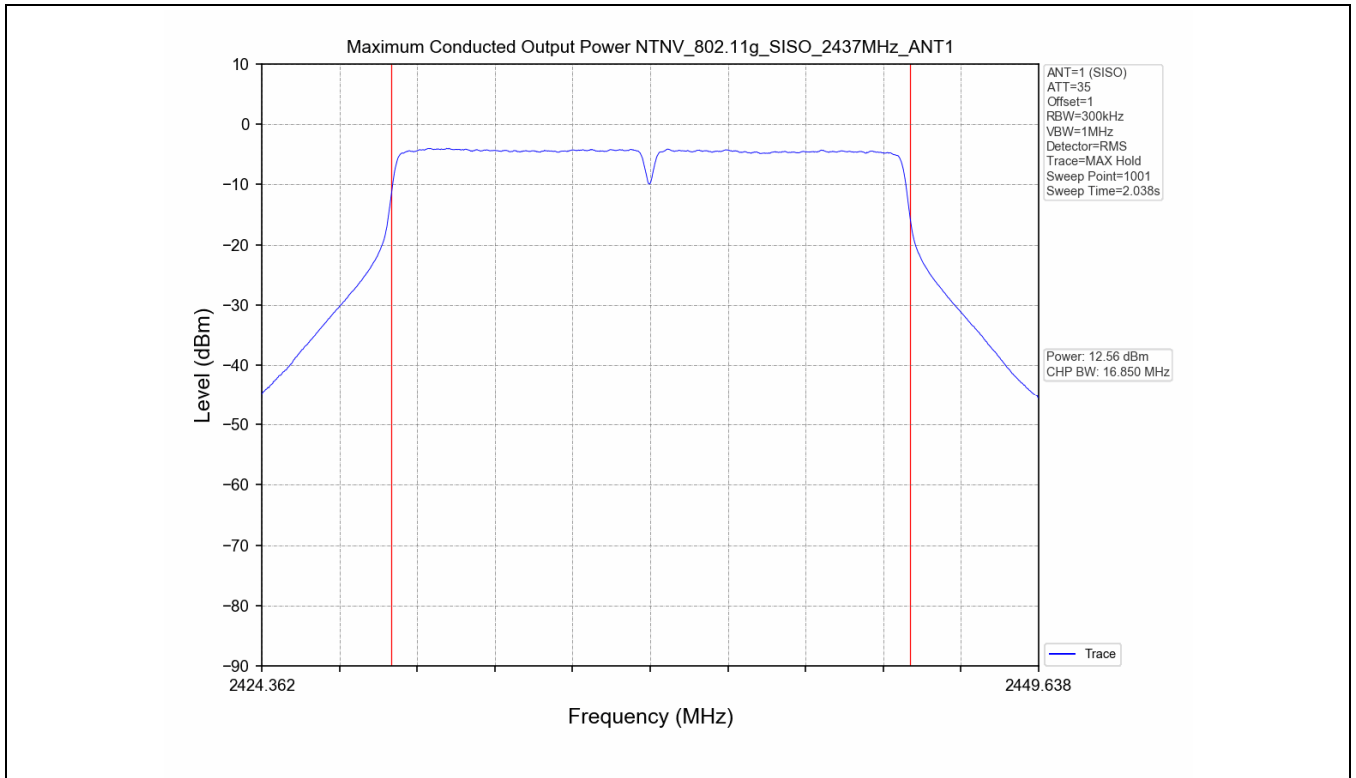
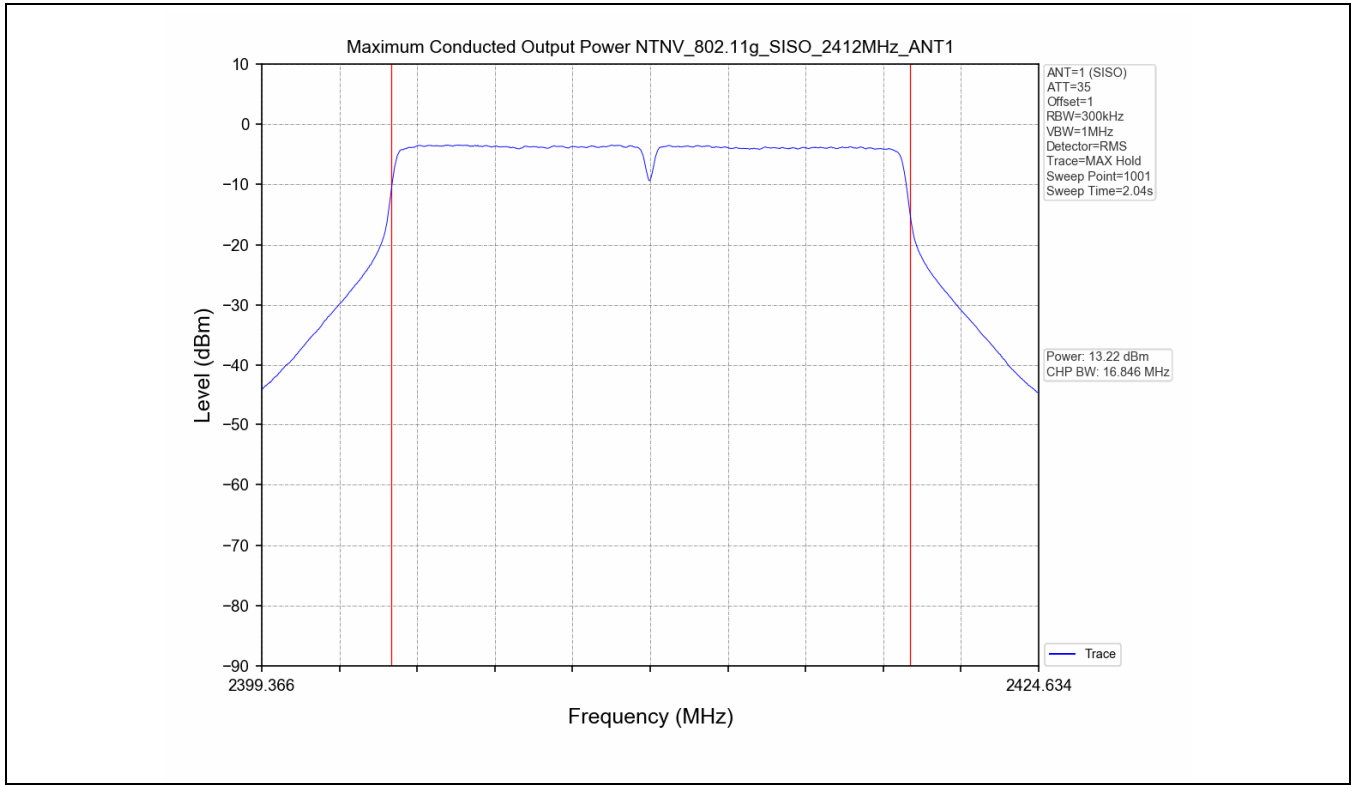
3.1 Test Result

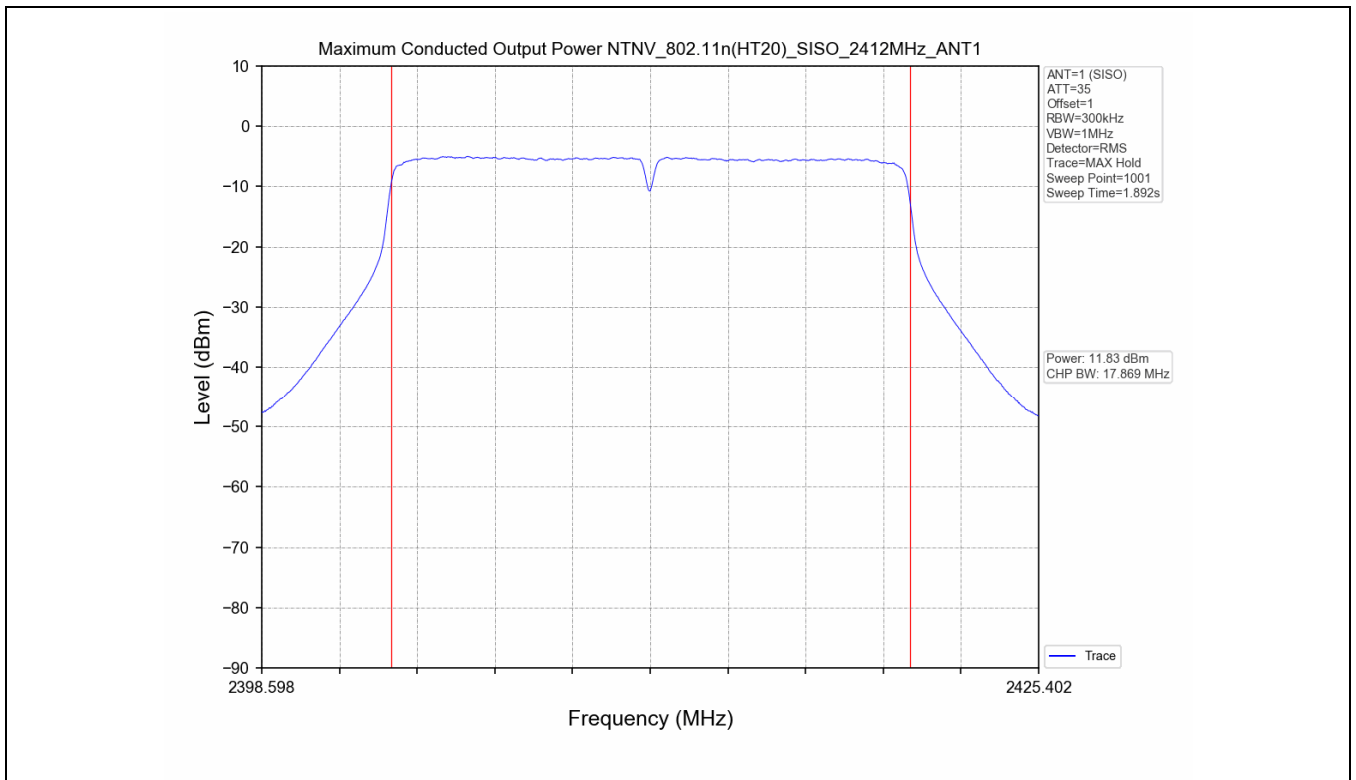
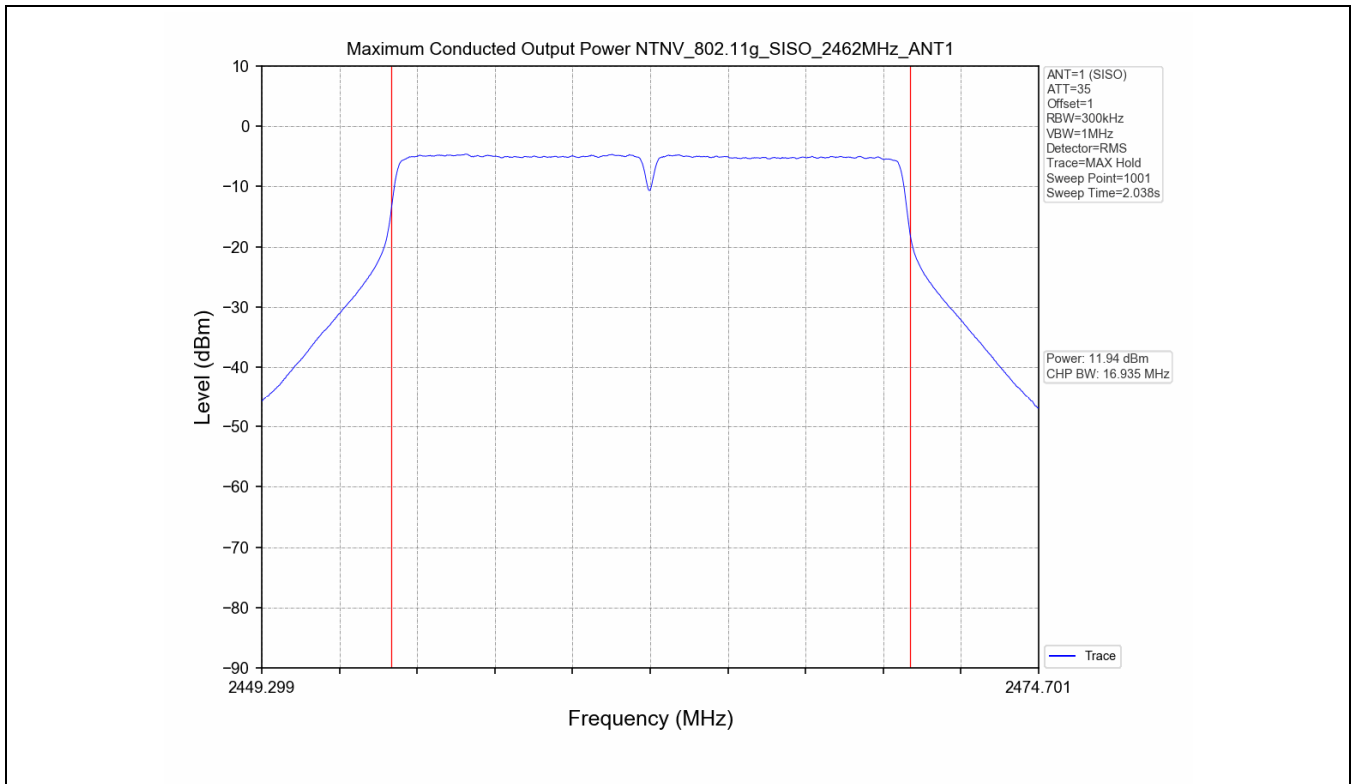
Test Mode	Frequency (MHz)	Tx Type	Measured Average Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
802.11b	2412	SISO	13.61	30	PASS
	2437	SISO	12.72	30	PASS
	2462	SISO	12.15	30	PASS
802.11g	2412	SISO	13.22	30	PASS
	2437	SISO	12.56	30	PASS
	2462	SISO	11.94	30	PASS
802.11n(HT20)	2412	SISO	11.83	30	PASS
	2437	SISO	11.19	30	PASS
	2462	SISO	10.61	30	PASS
802.11n(HT40)	2422	SISO	11.93	30	PASS
	2437	SISO	11.61	30	PASS
	2452	SISO	11.19	30	PASS

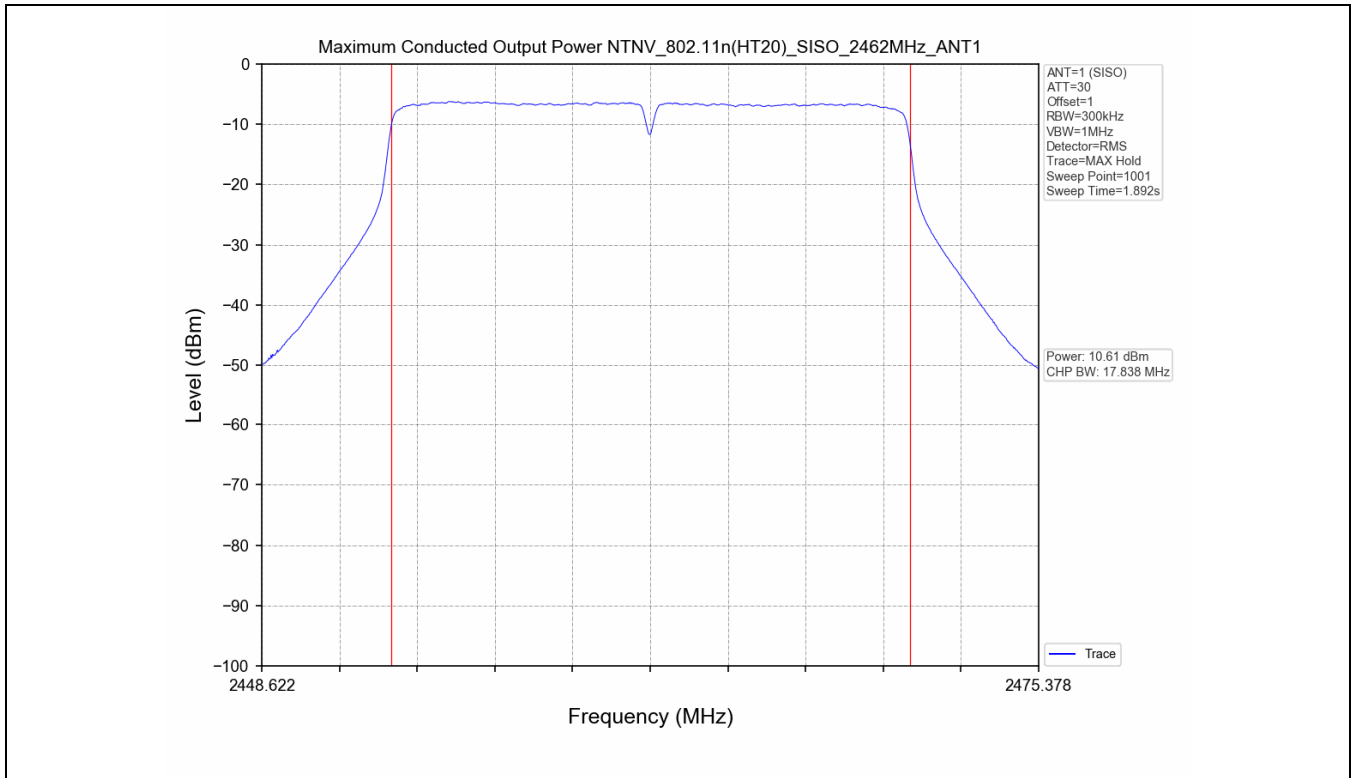
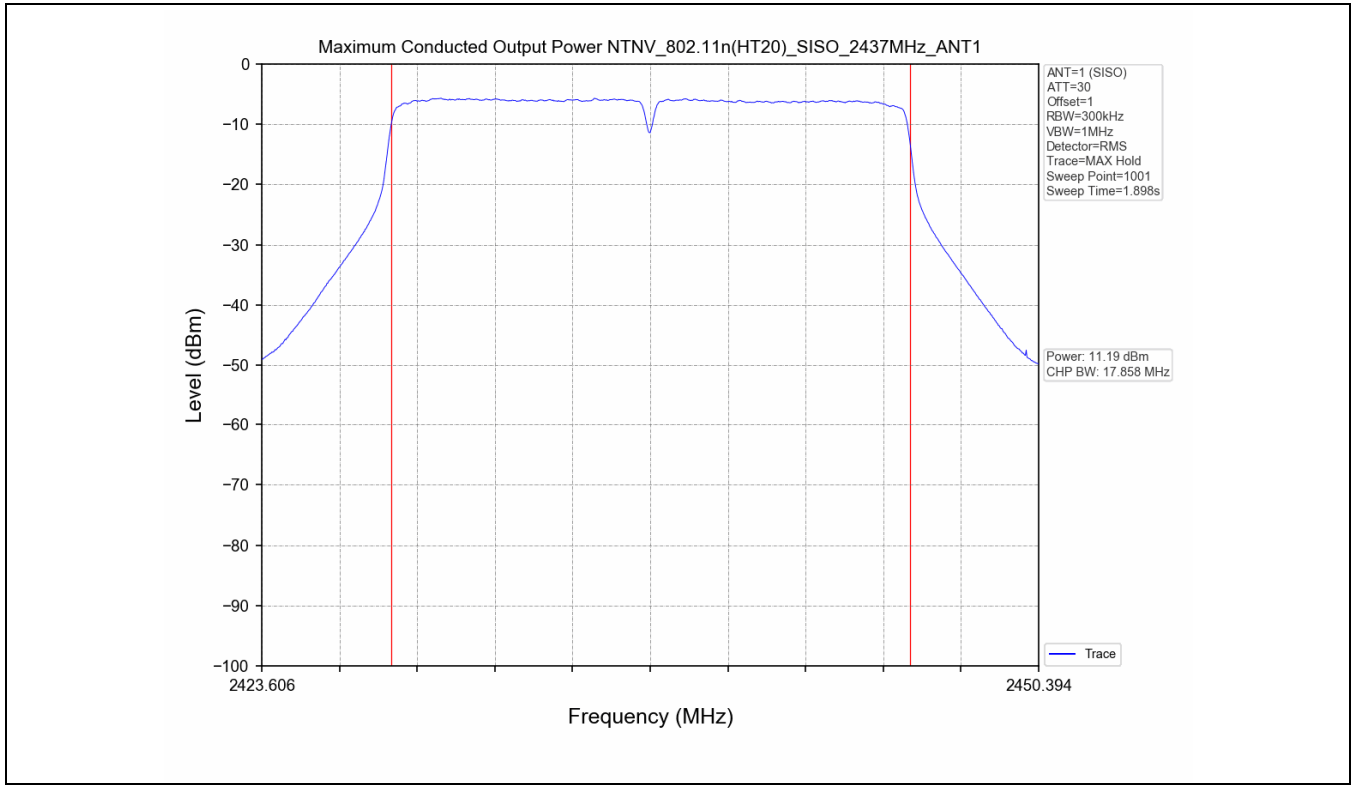
3.2 Test Graph

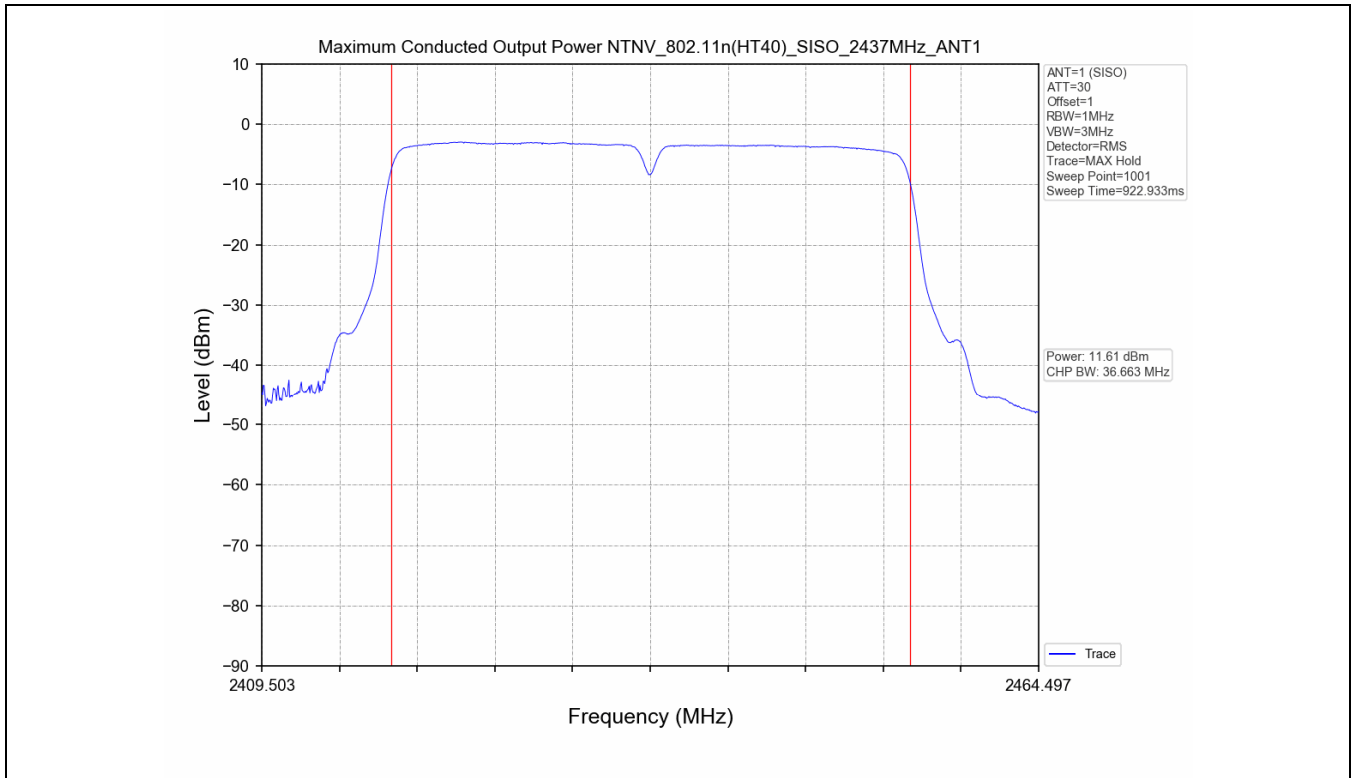
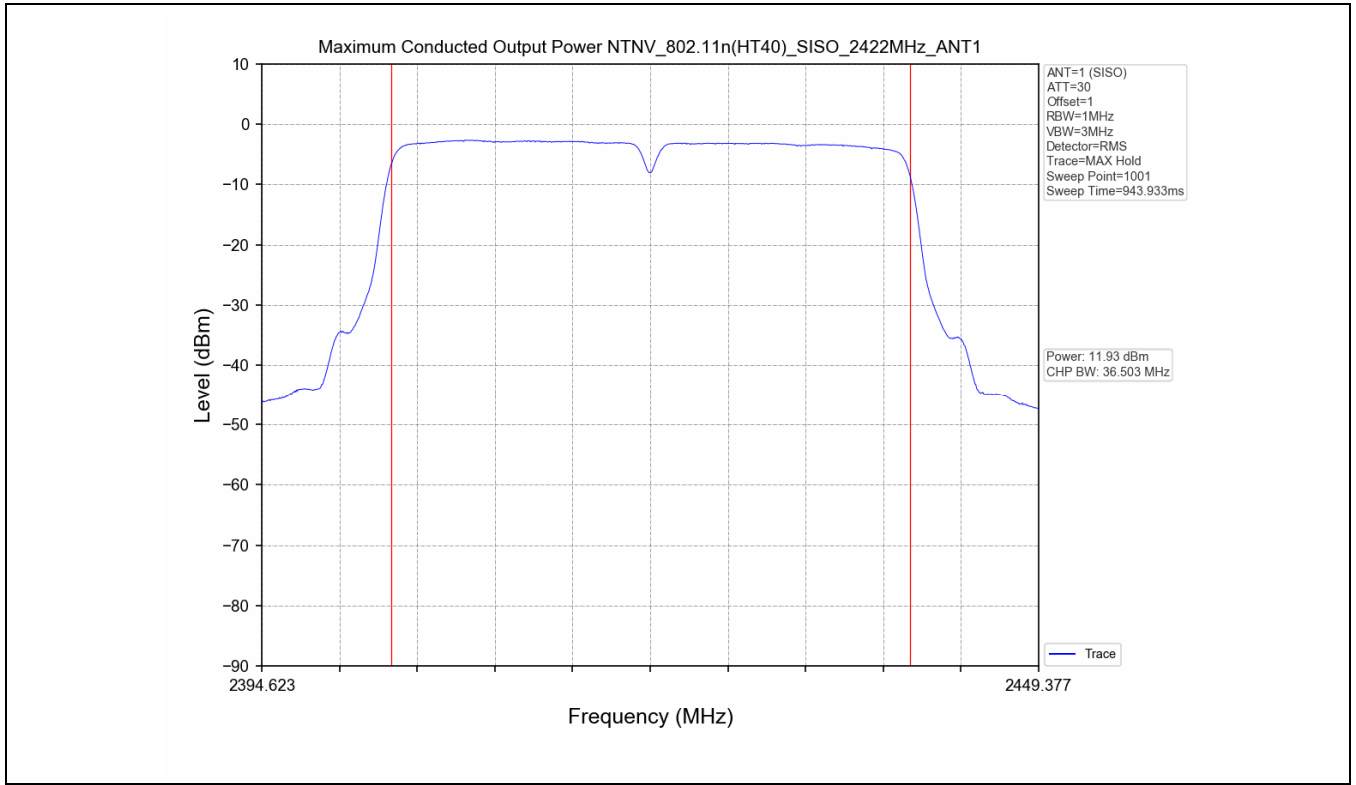


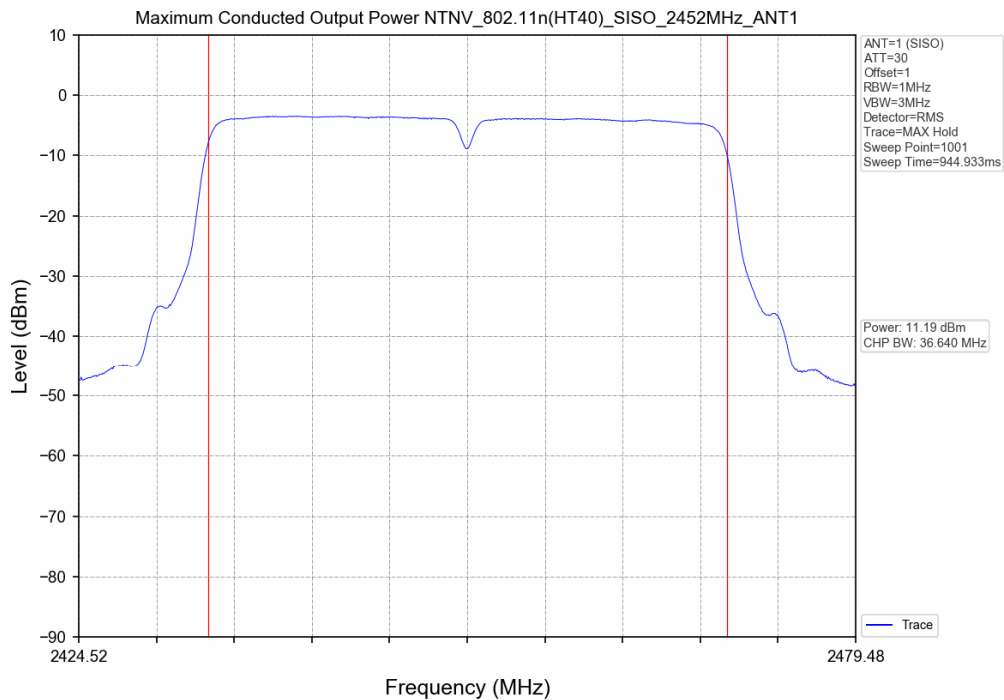










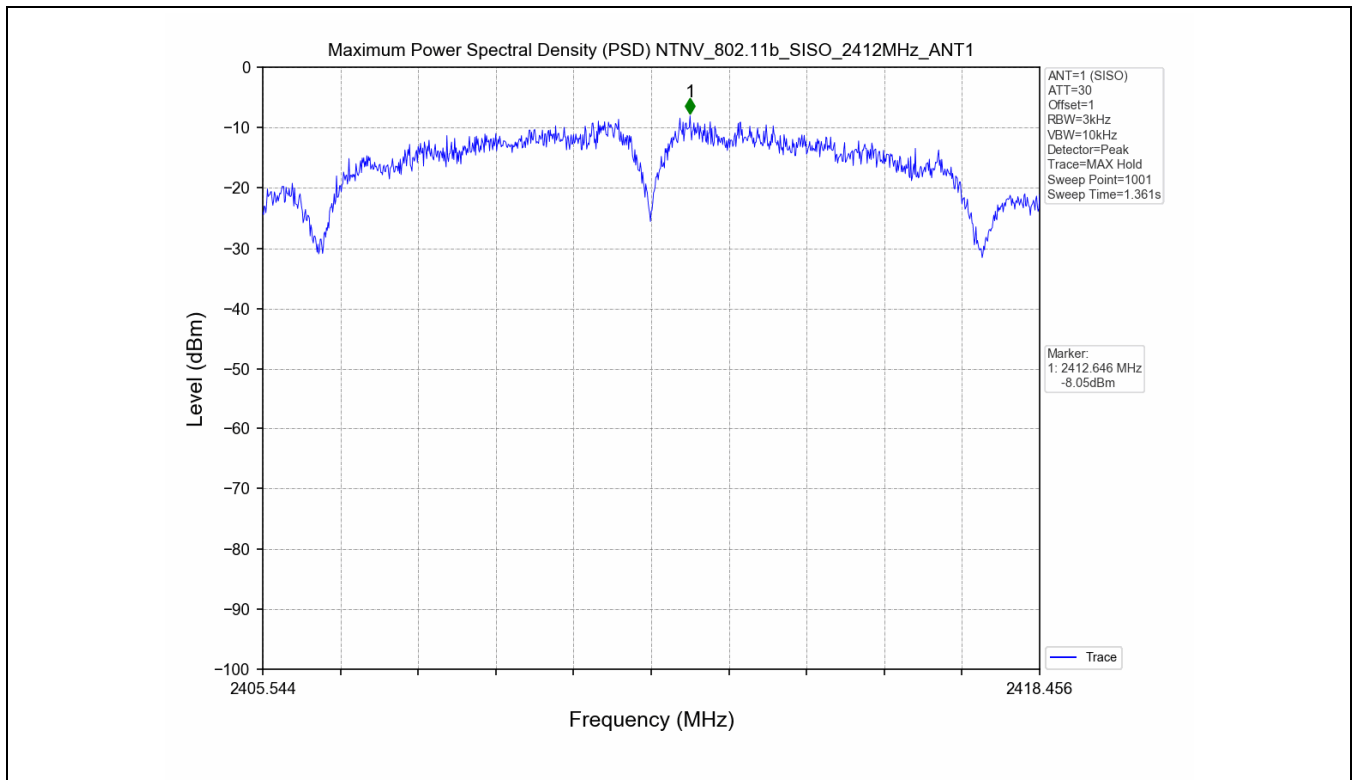


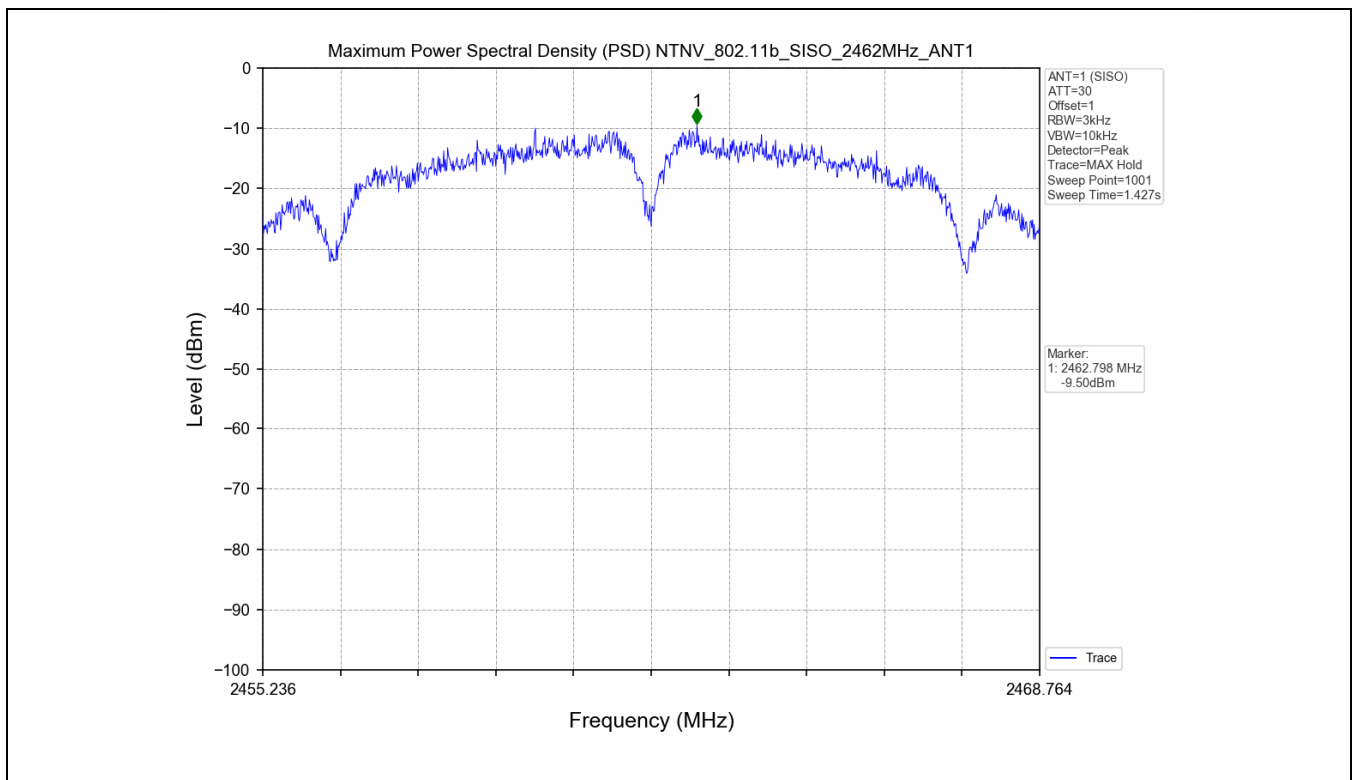
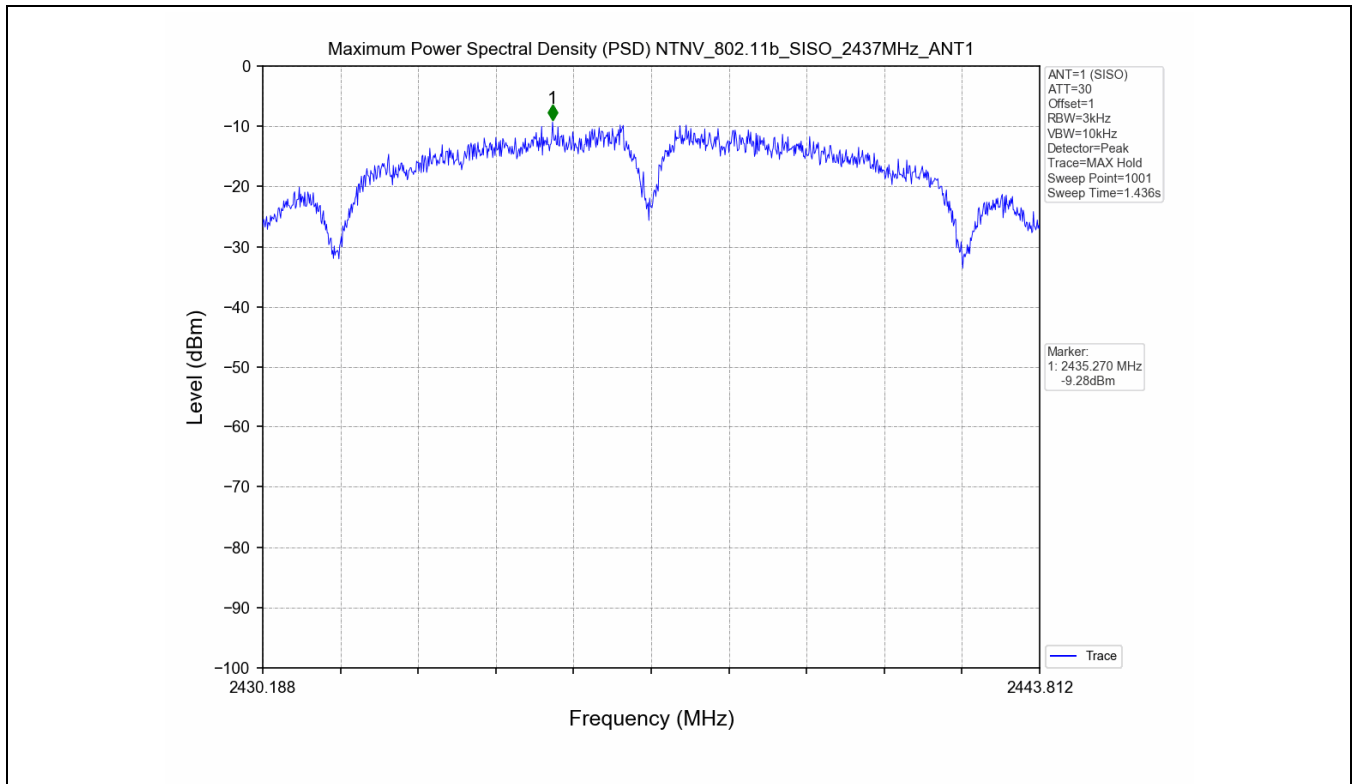
4. Maximum Power Spectral Density (PSD)

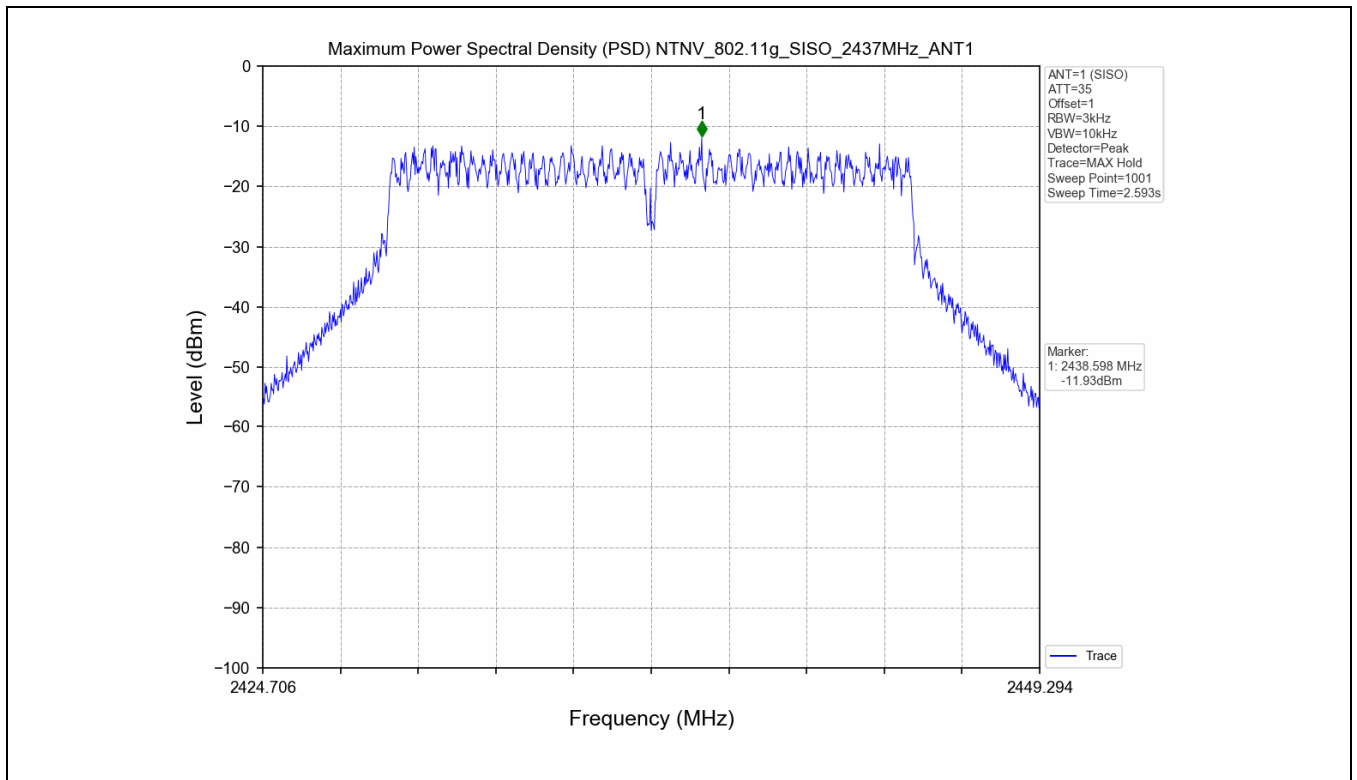
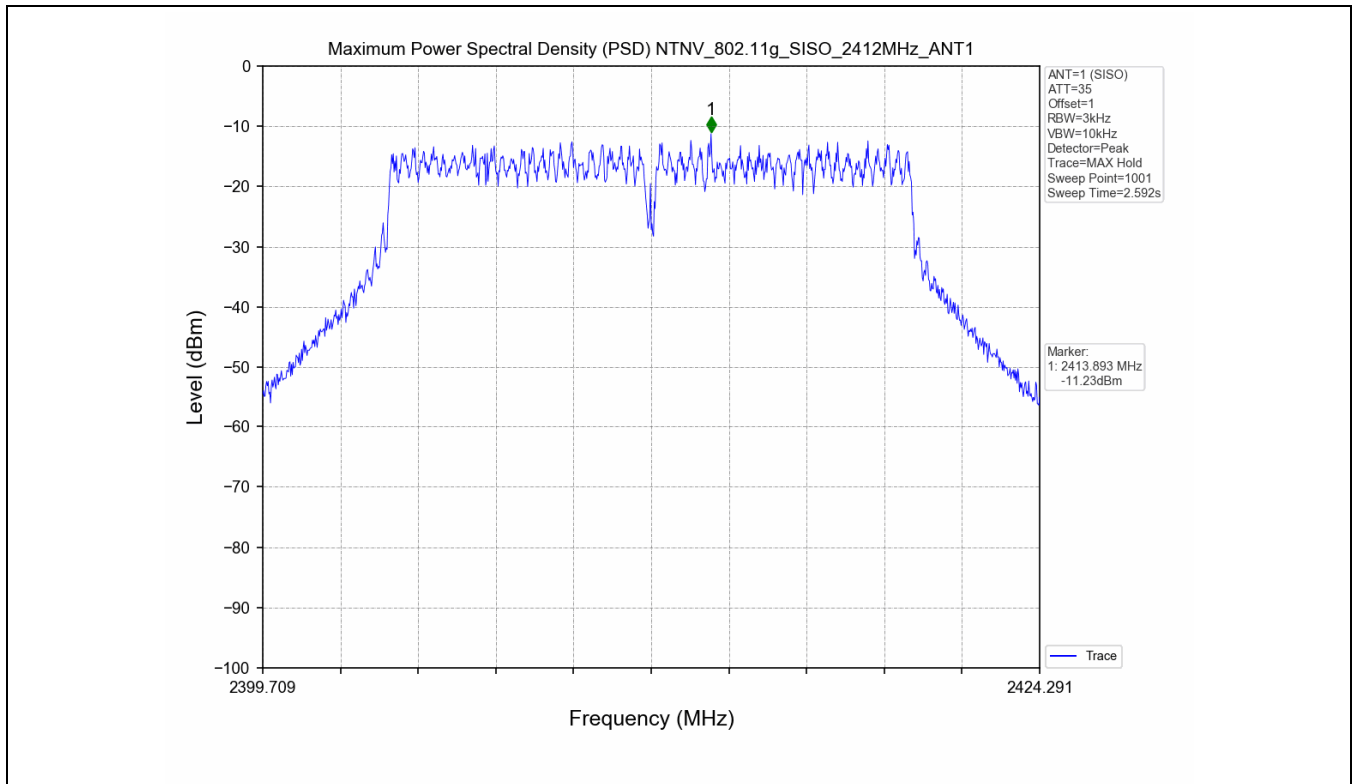
4.1 Test Result

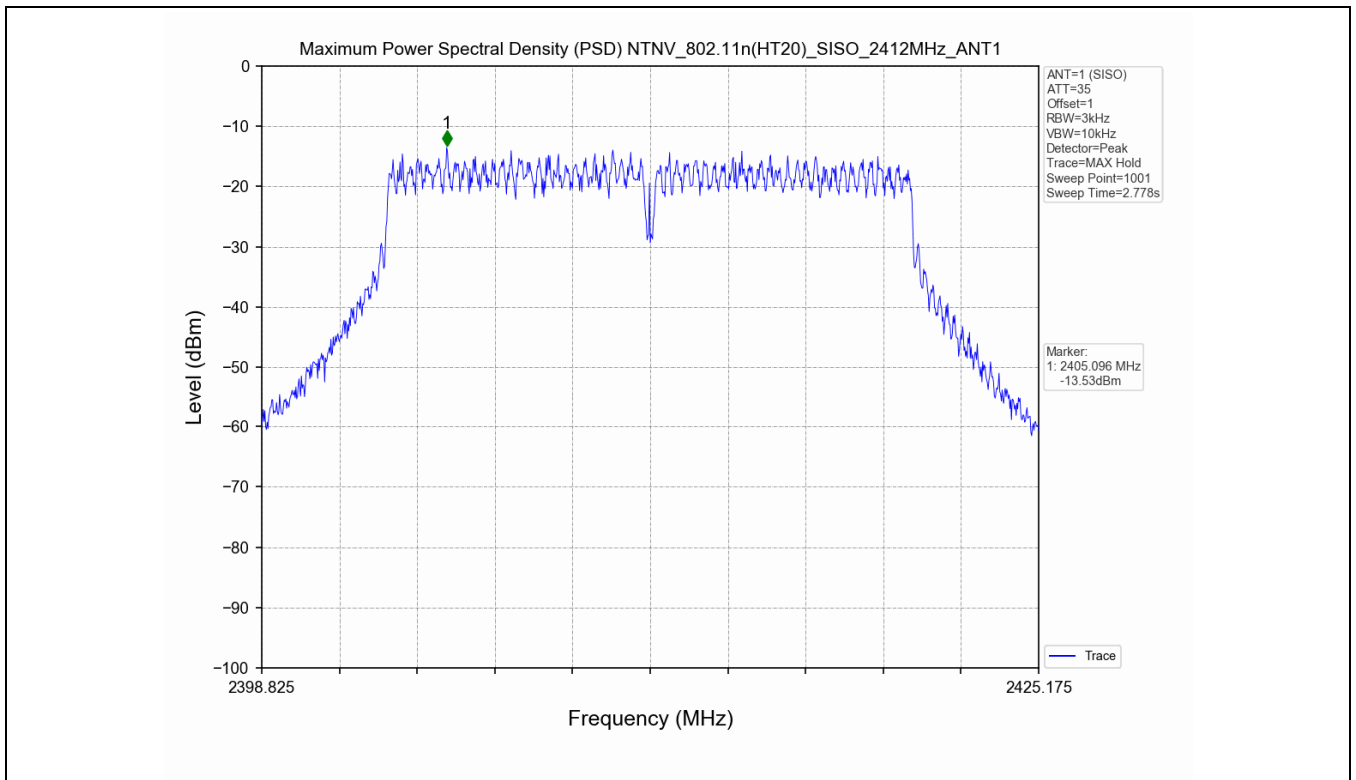
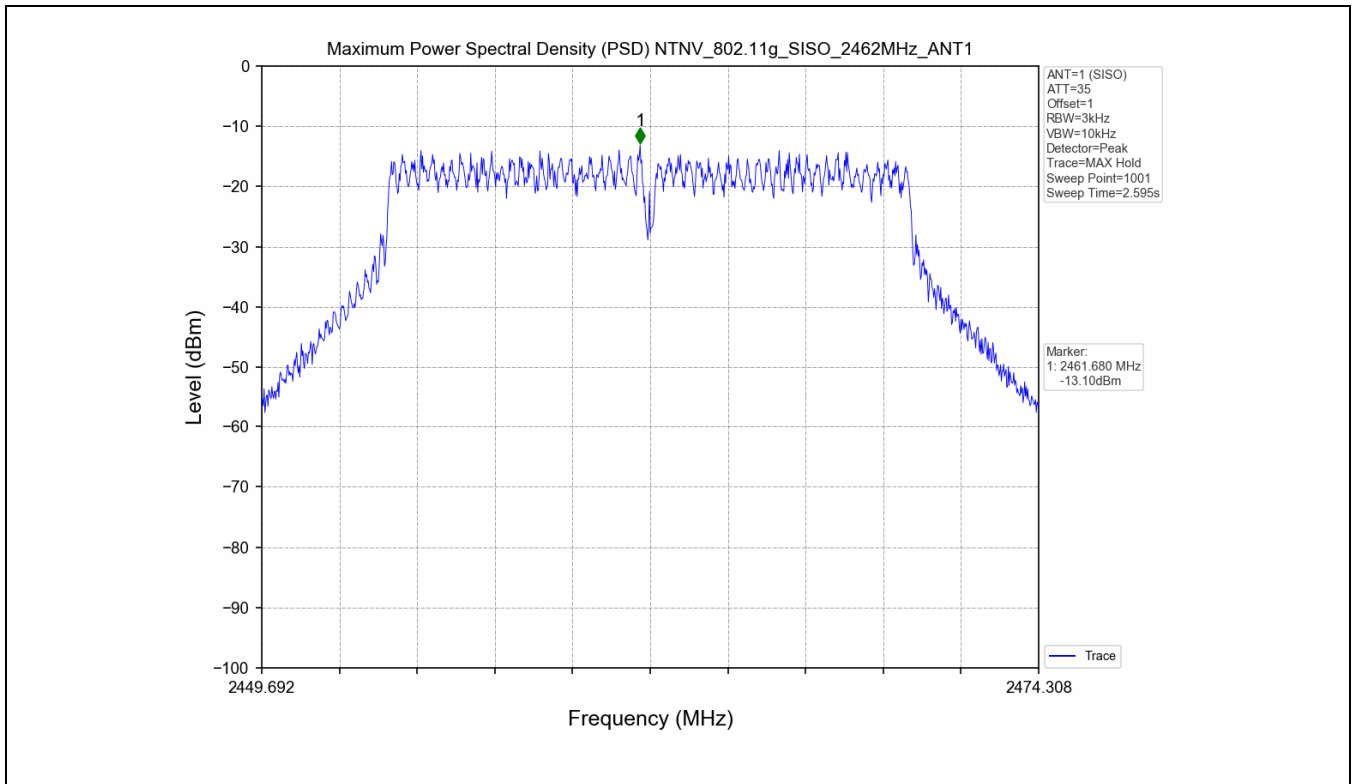
Test Mode	Frequency (MHz)	Tx Type	Maximum Power Spectral Density (dBm/3KHz)	Limits (dBm/3KHz)	Verdict
			Ant 1		
802.11b	2412	SISO	-8.05	≤8	PASS
	2437	SISO	-9.28	≤8	PASS
	2462	SISO	-9.50	≤8	PASS
802.11g	2412	SISO	-11.23	≤8	PASS
	2437	SISO	-11.93	≤8	PASS
	2462	SISO	-13.10	≤8	PASS
802.11n(HT20)	2412	SISO	-13.53	≤8	PASS
	2437	SISO	-14.14	≤8	PASS
	2462	SISO	-14.55	≤8	PASS
802.11n(HT40)	2422	SISO	-16.91	≤8	PASS
	2437	SISO	-16.82	≤8	PASS
	2452	SISO	-16.85	≤8	PASS

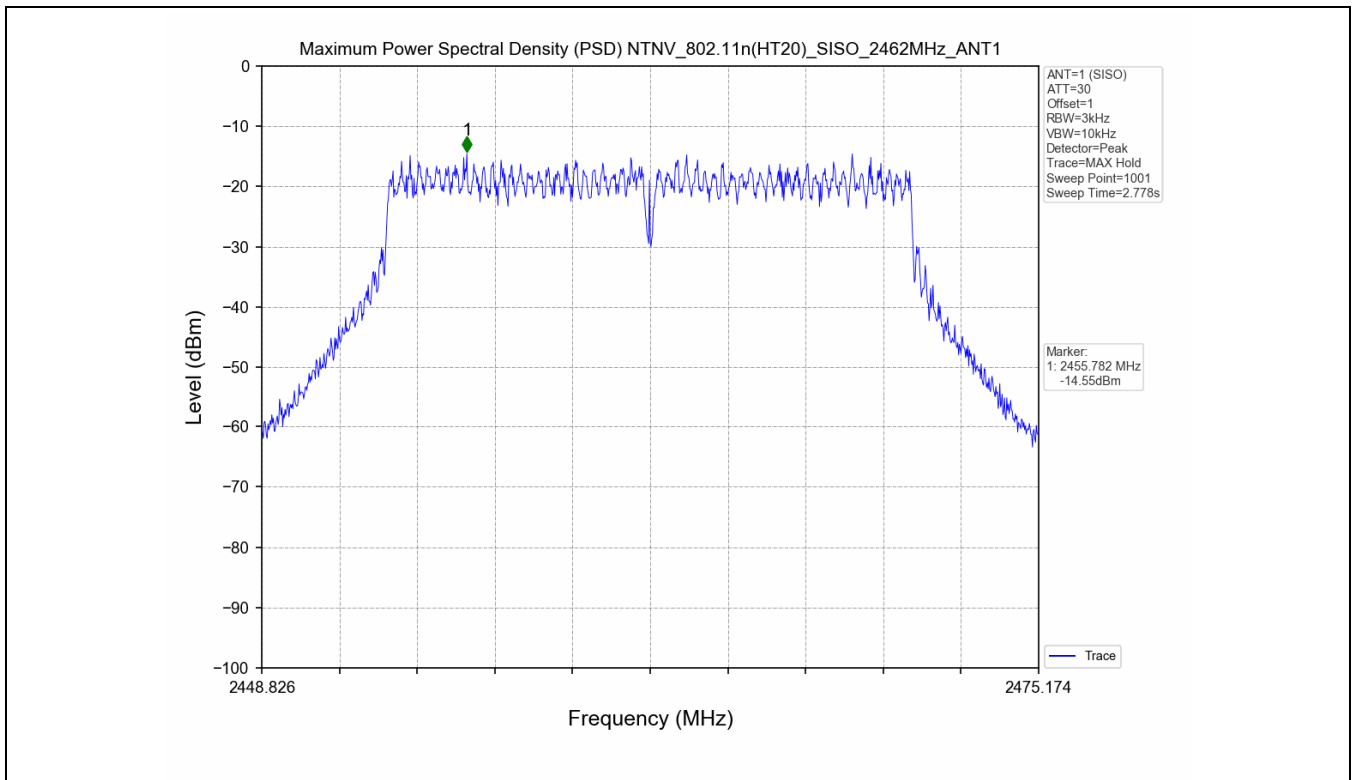
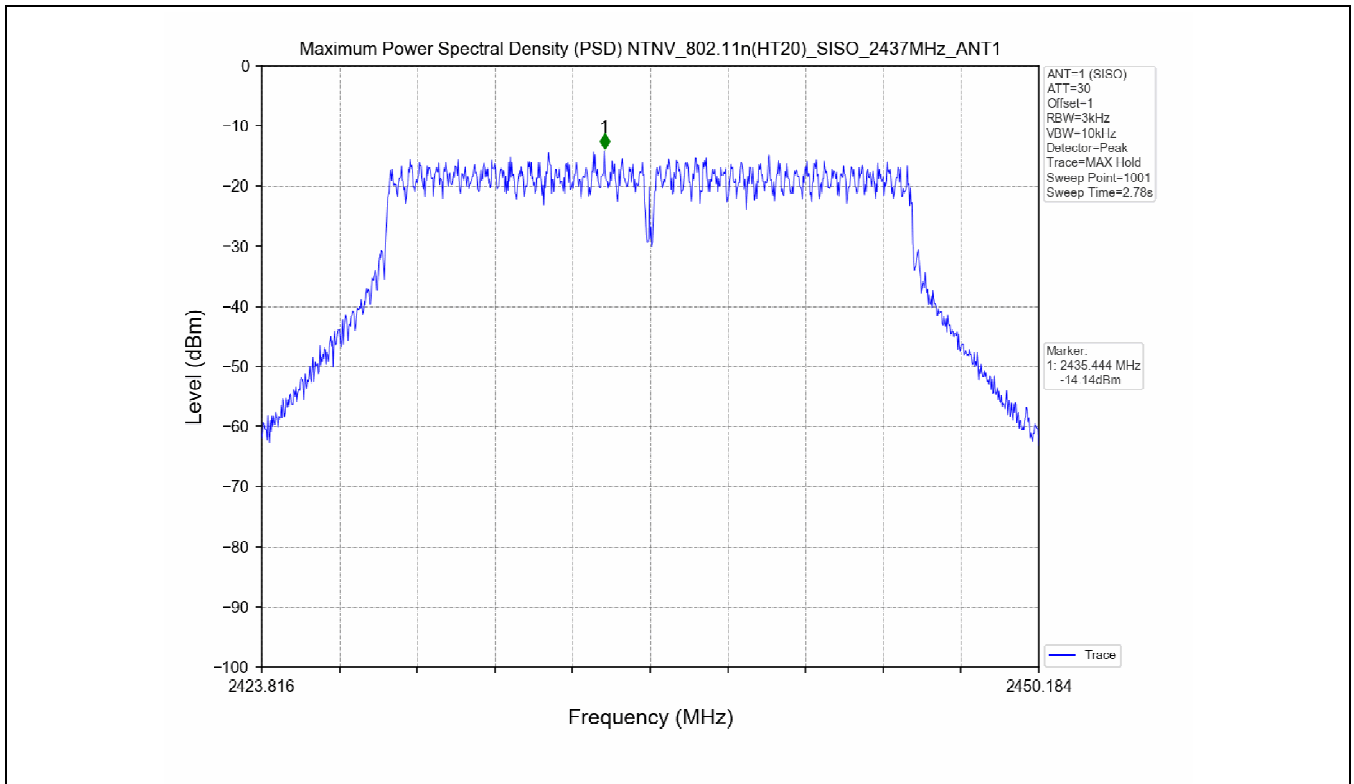
4.2 Test Graph

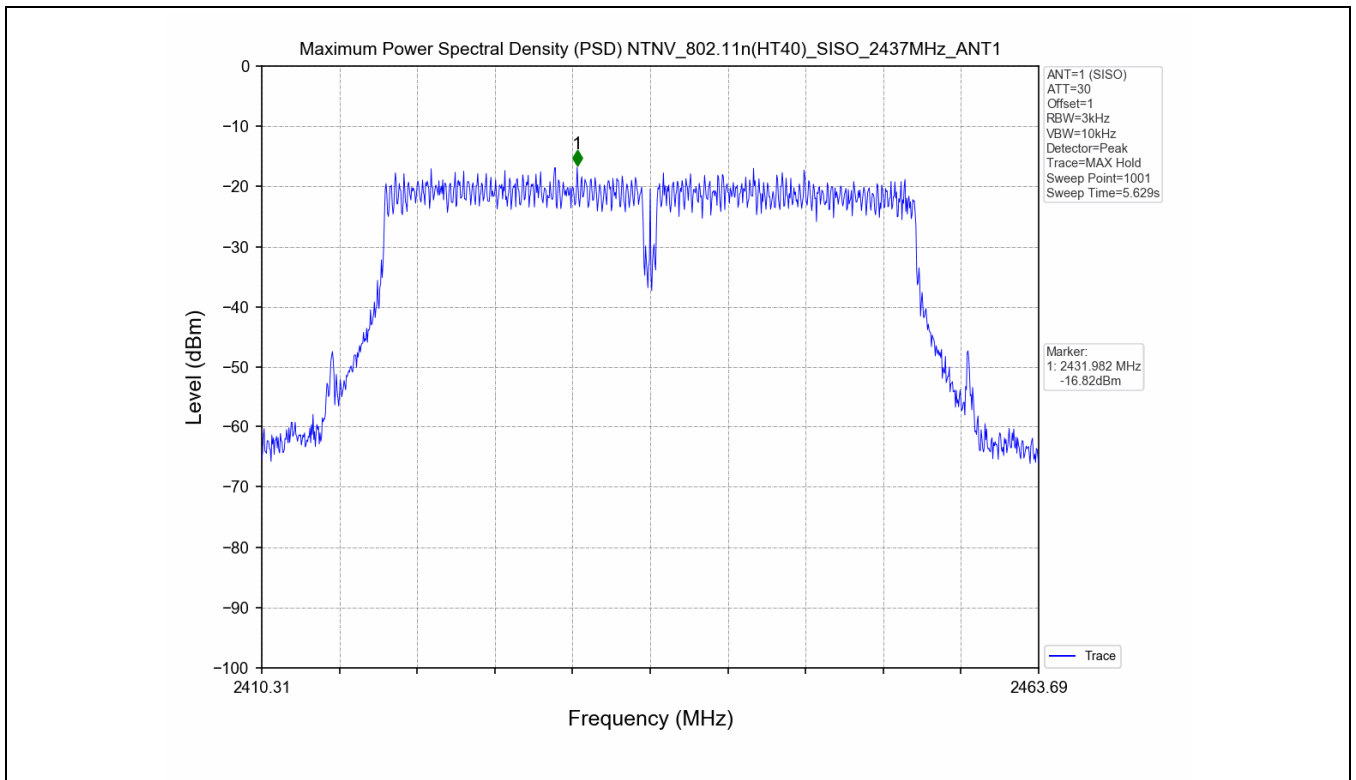
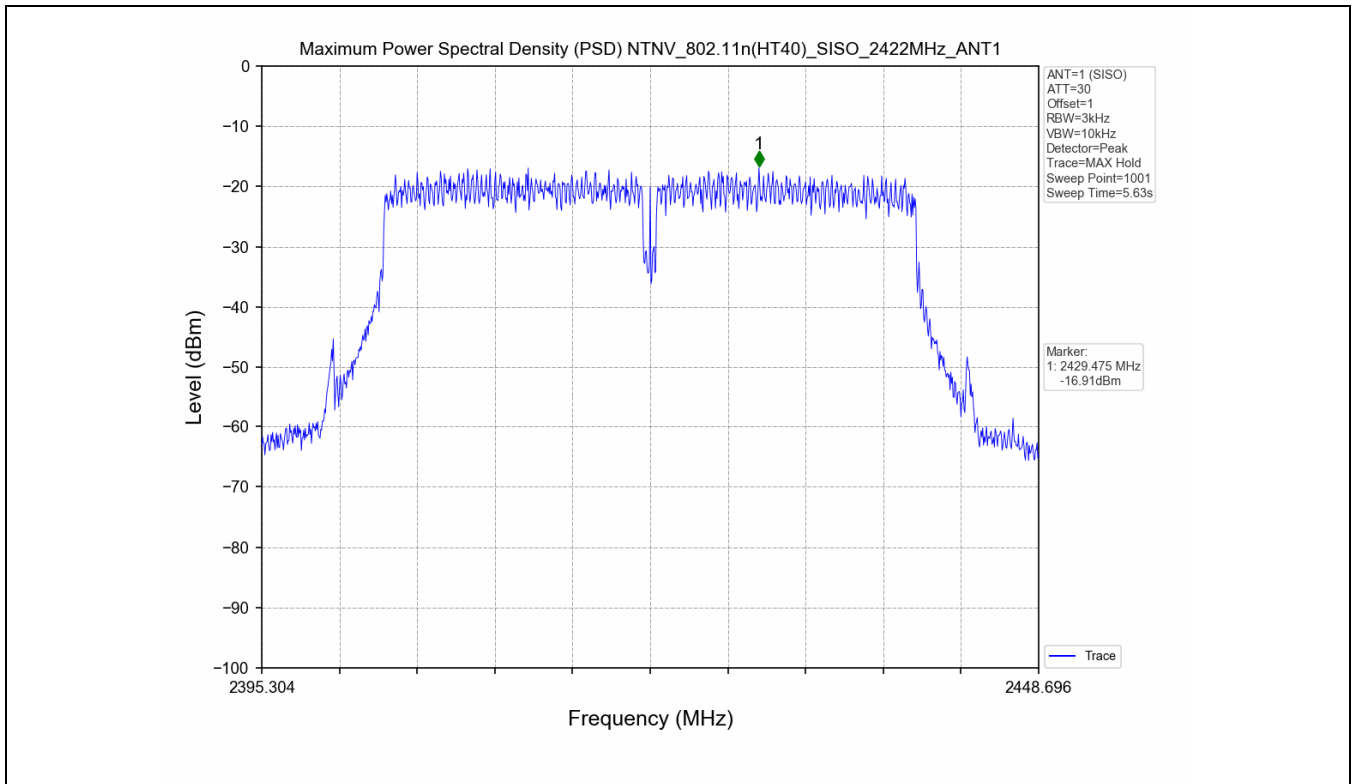


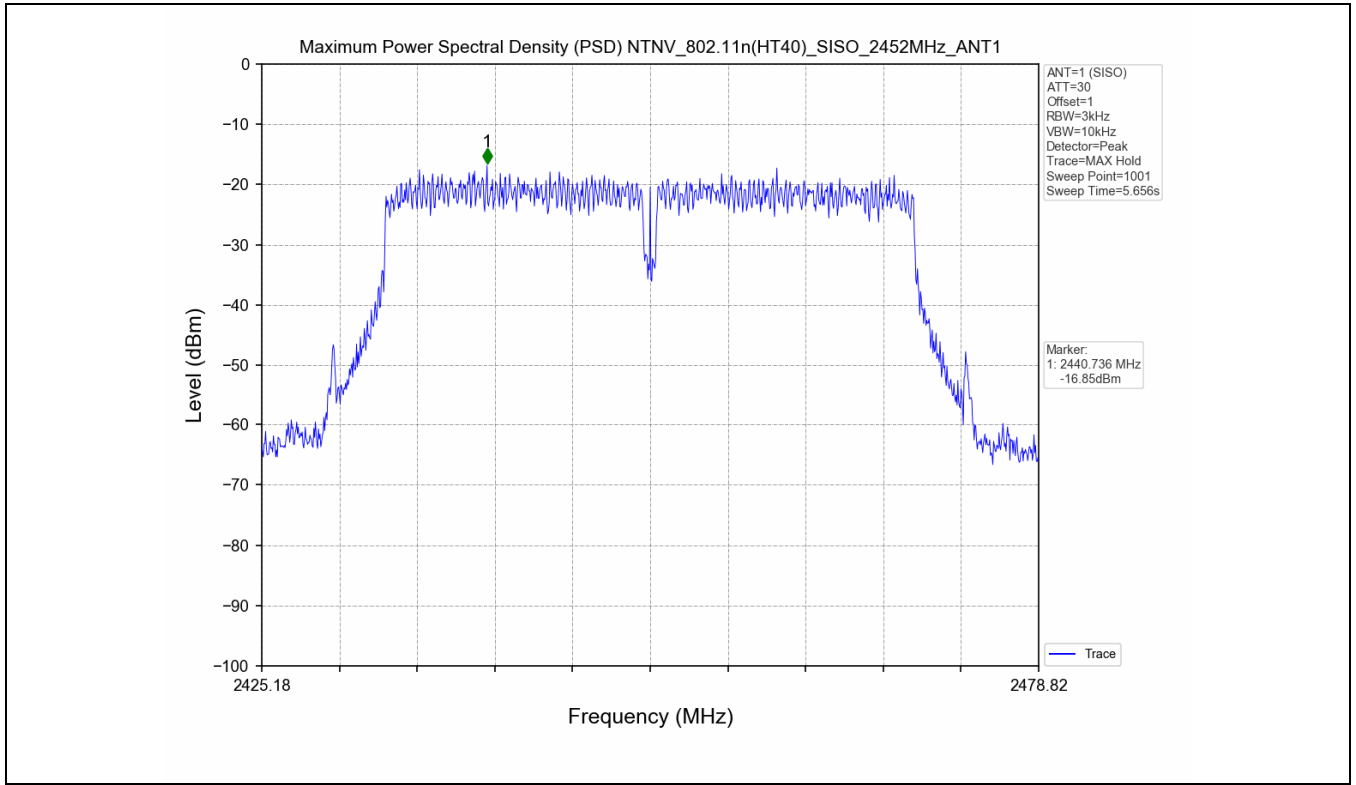










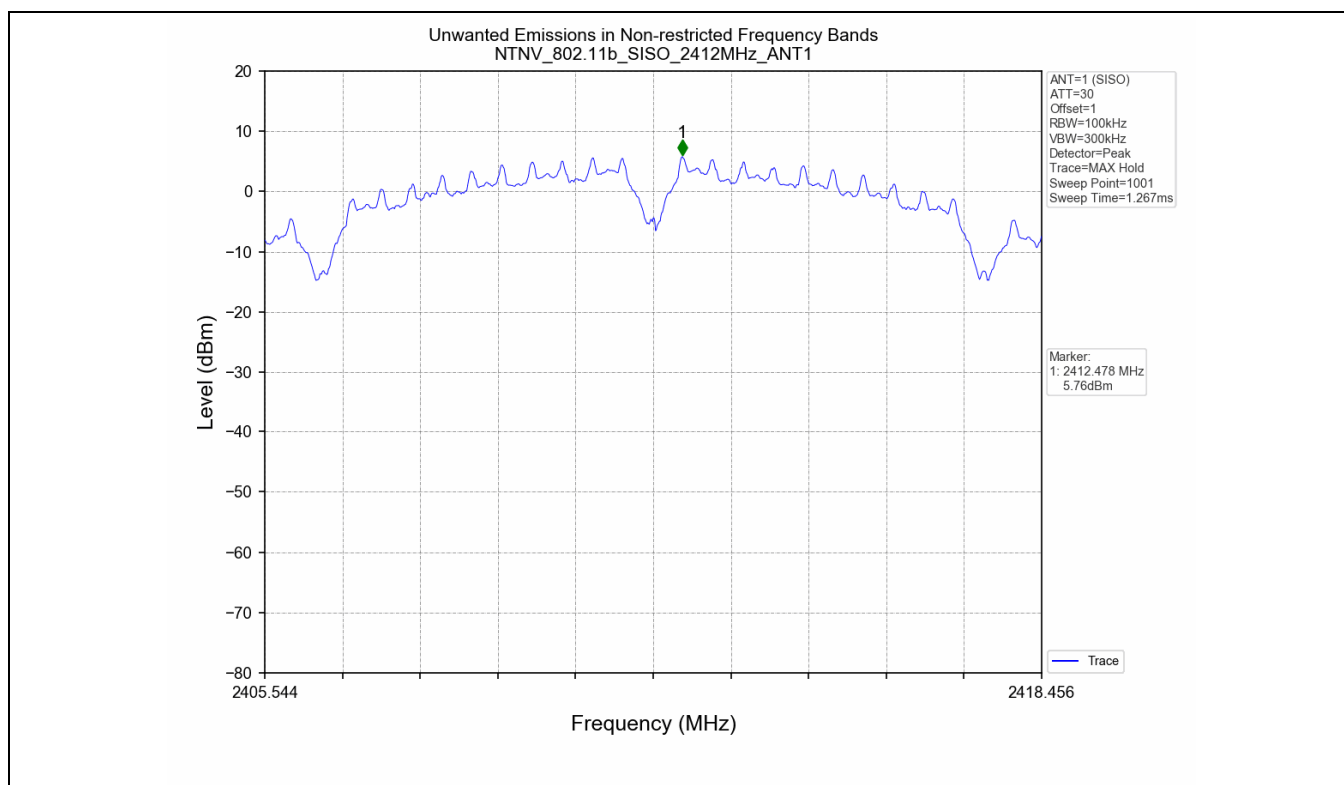


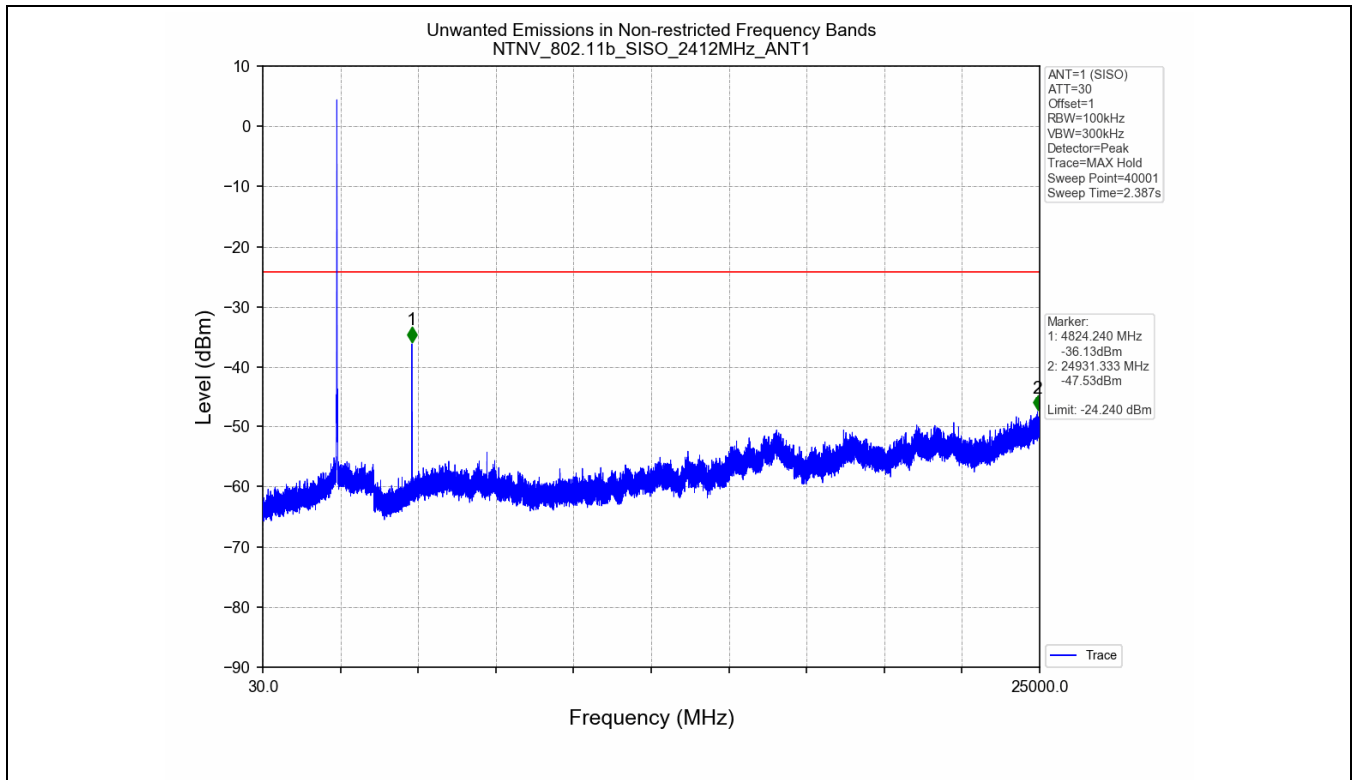
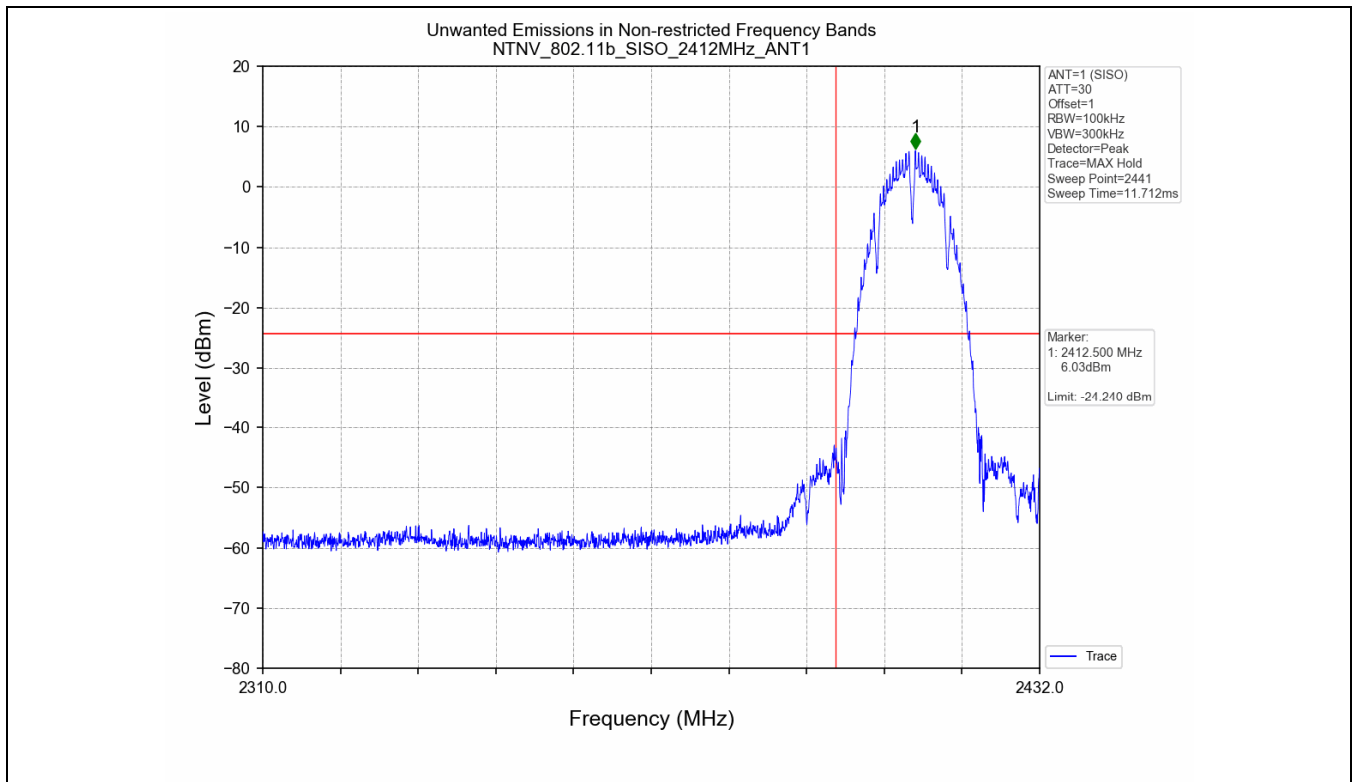
5. Unwanted Emissions in Non-restricted Frequency Bands

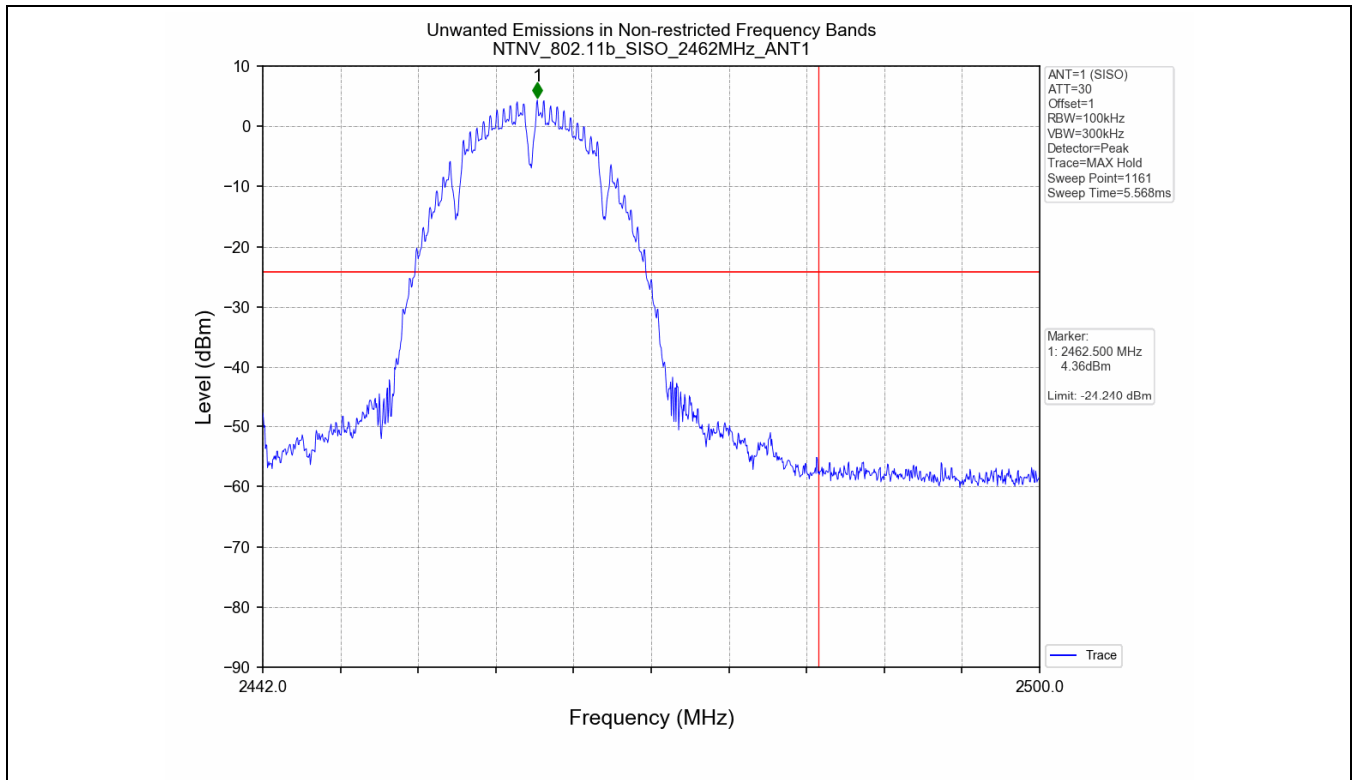
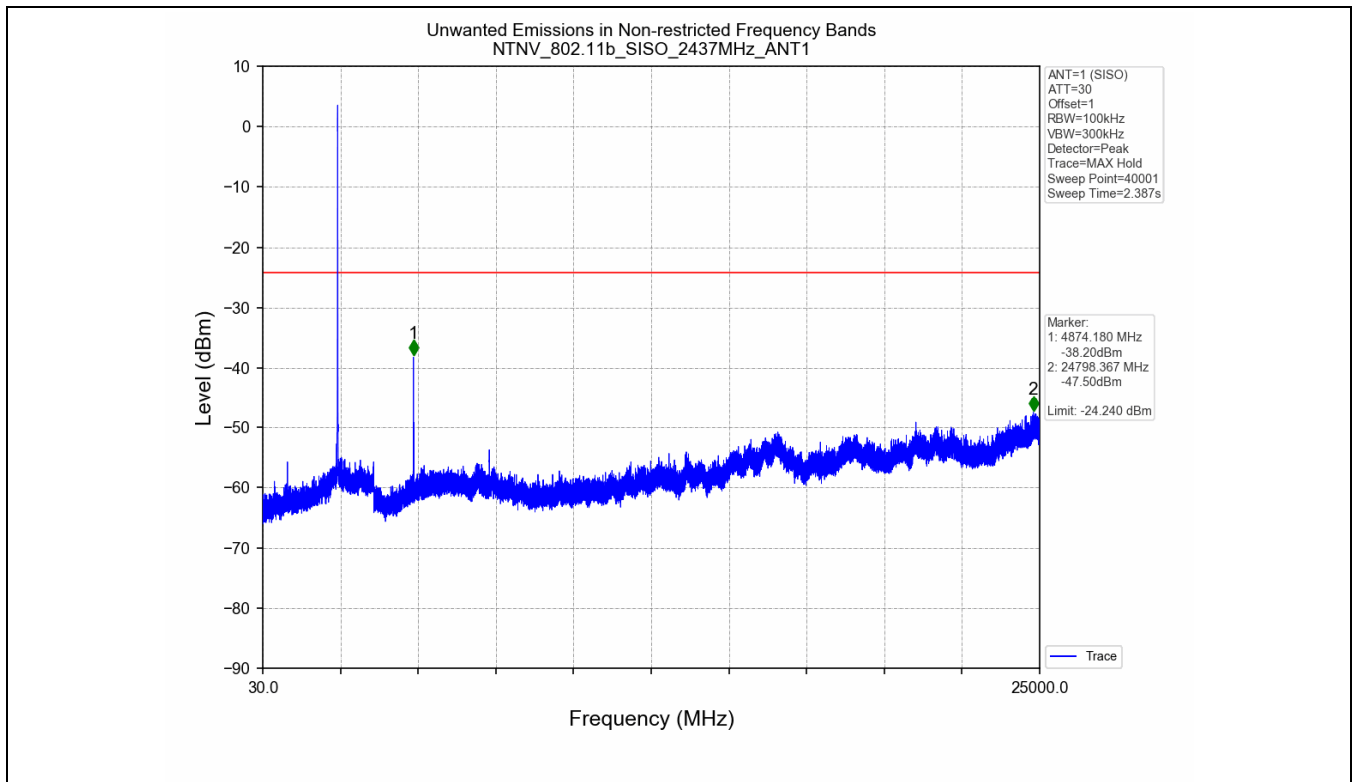
5.1 Test Result

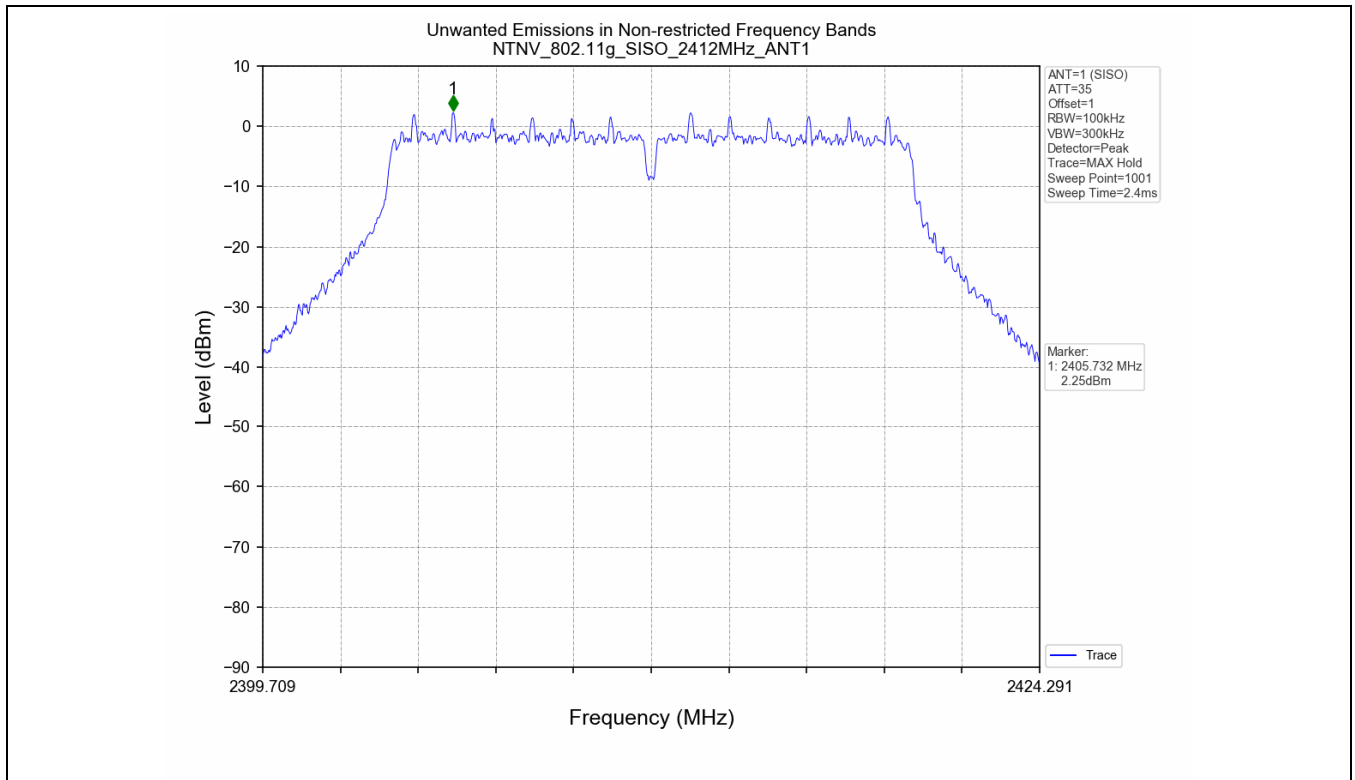
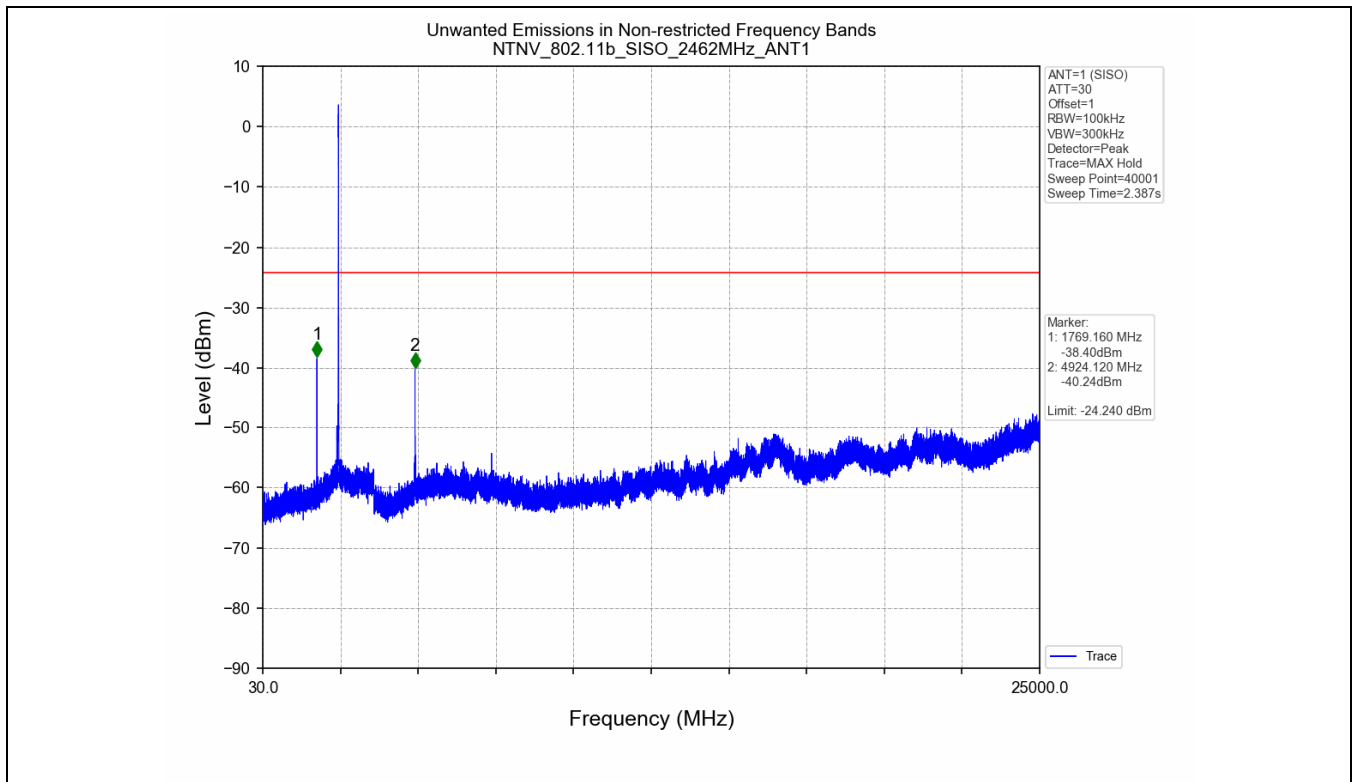
Test Mode	Frequency (MHz)	TX Type	ANT No.	Spurious Conducted Emission (dBm)	Limits (dBm)	Verdict
802.11b	2412	SISO	1	Refer to test graph	-24.24	PASS
	2437	SISO	1	Refer to test graph	-24.24	PASS
	2462	SISO	1	Refer to test graph	-24.24	PASS
802.11g	2412	SISO	1	Refer to test graph	-27.75	PASS
	2437	SISO	1	Refer to test graph	-27.75	PASS
	2462	SISO	1	Refer to test graph	-27.75	PASS
802.11n(HT20)	2412	SISO	1	Refer to test graph	-29.25	PASS
	2437	SISO	1	Refer to test graph	-29.25	PASS
	2462	SISO	1	Refer to test graph	-29.25	PASS
802.11n(HT40)	2422	SISO	1	Refer to test graph	-31.96	PASS
	2437	SISO	1	Refer to test graph	-31.96	PASS
	2452	SISO	1	Refer to test graph	-31.96	PASS

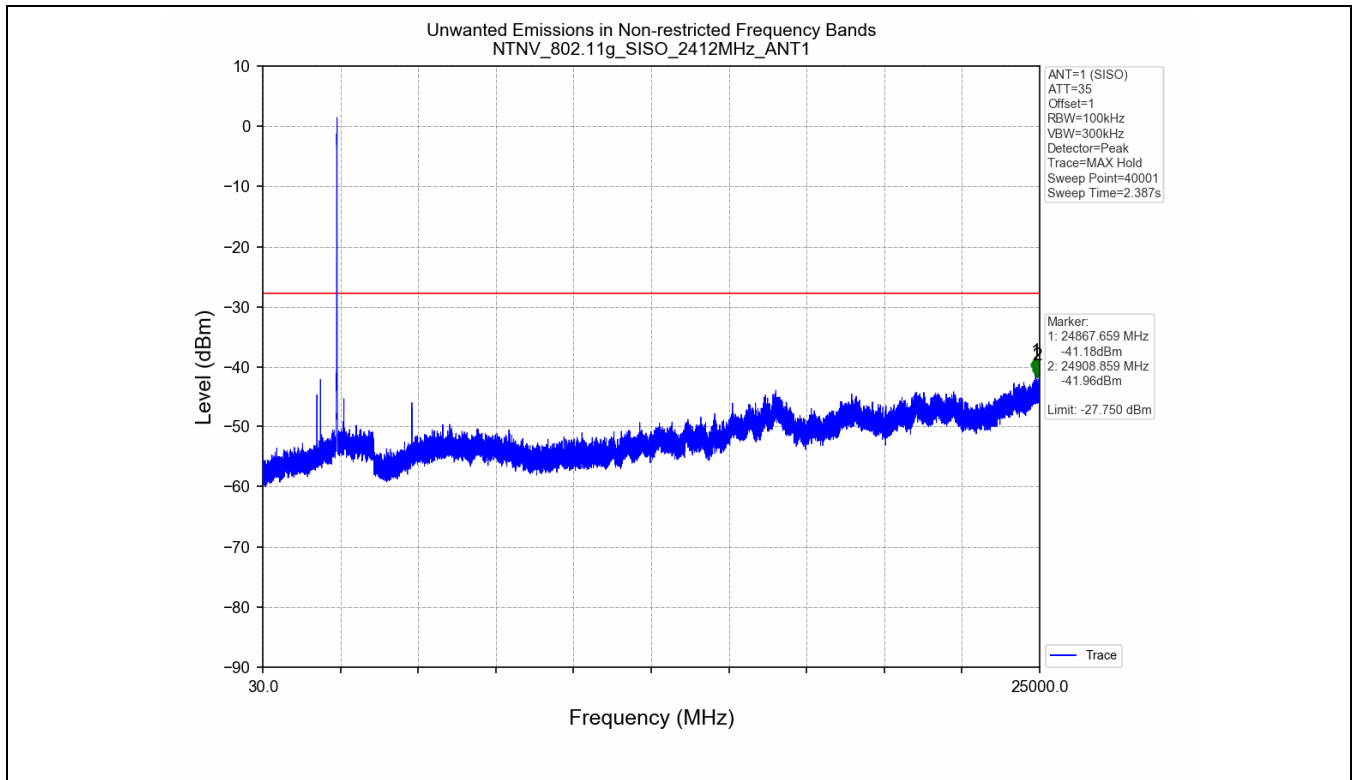
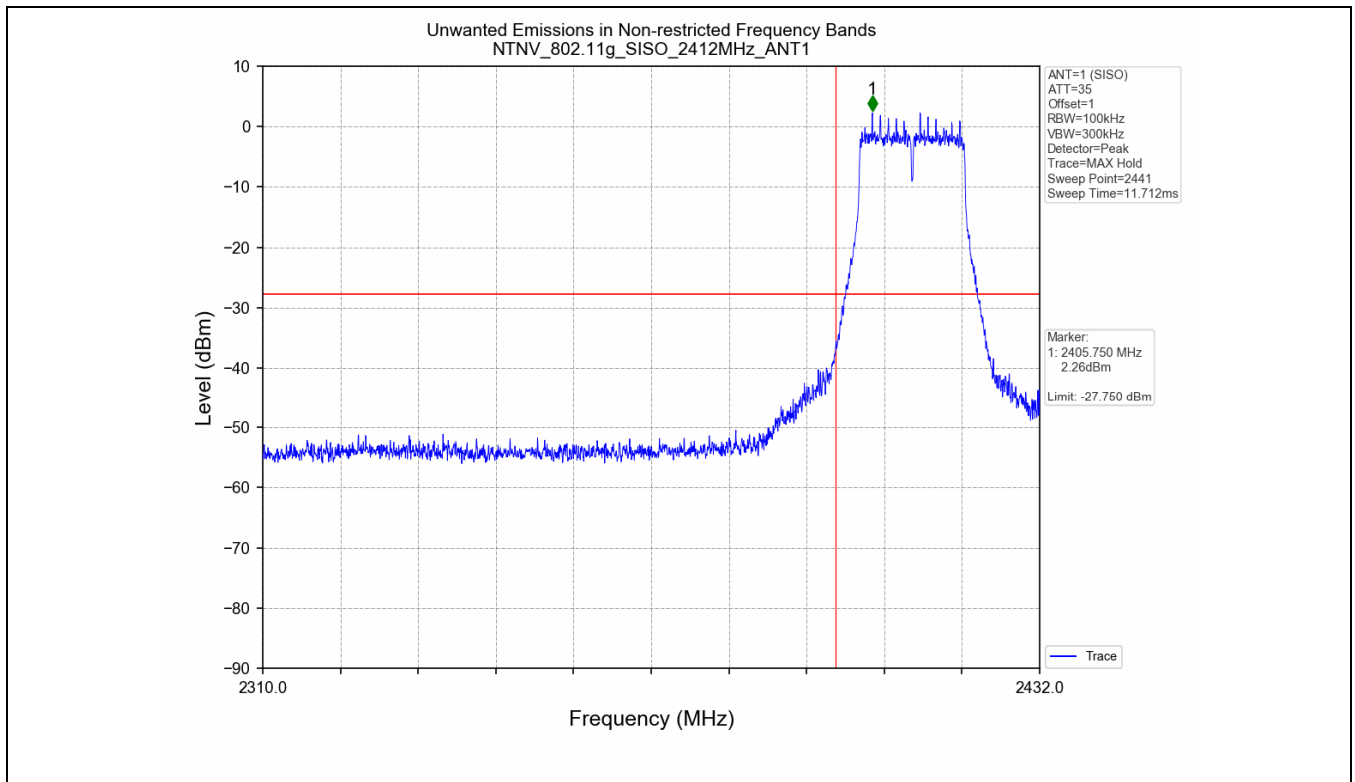
5.2 Test Graph

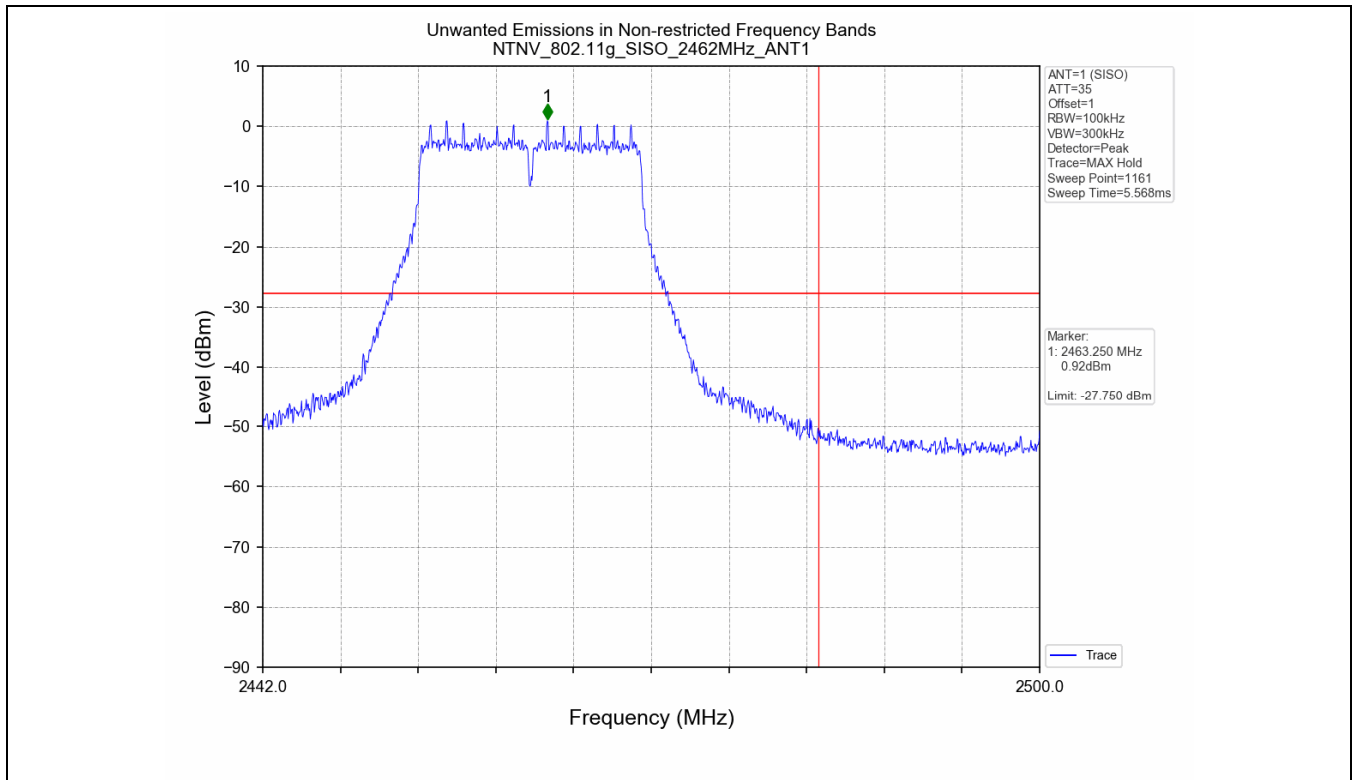
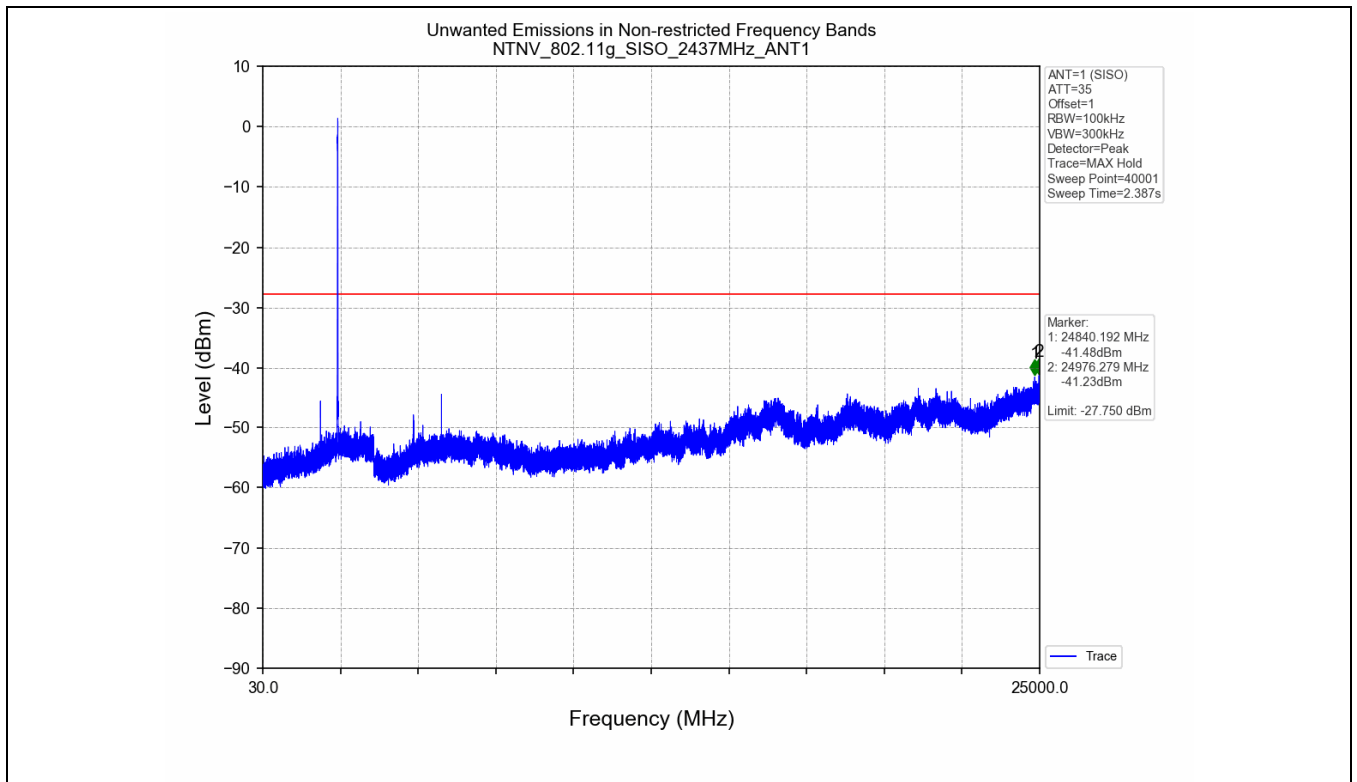


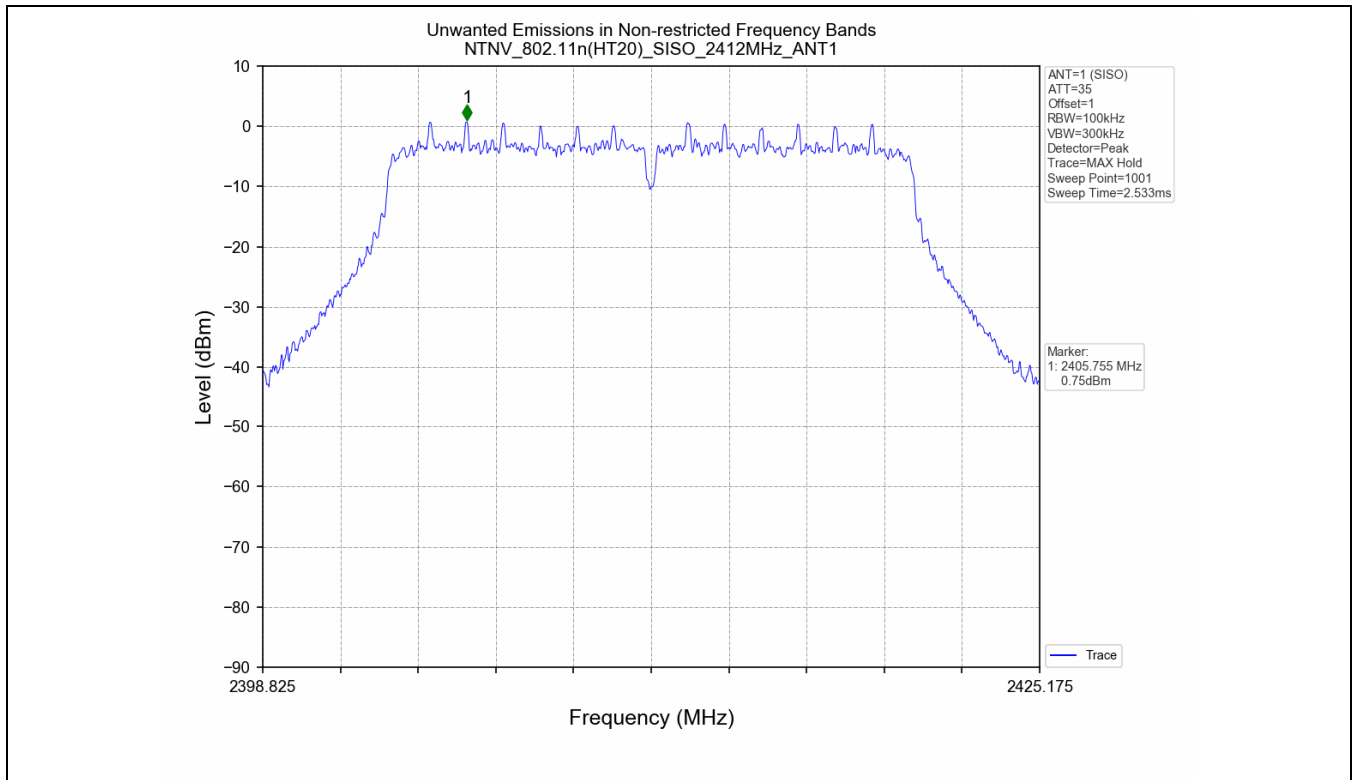
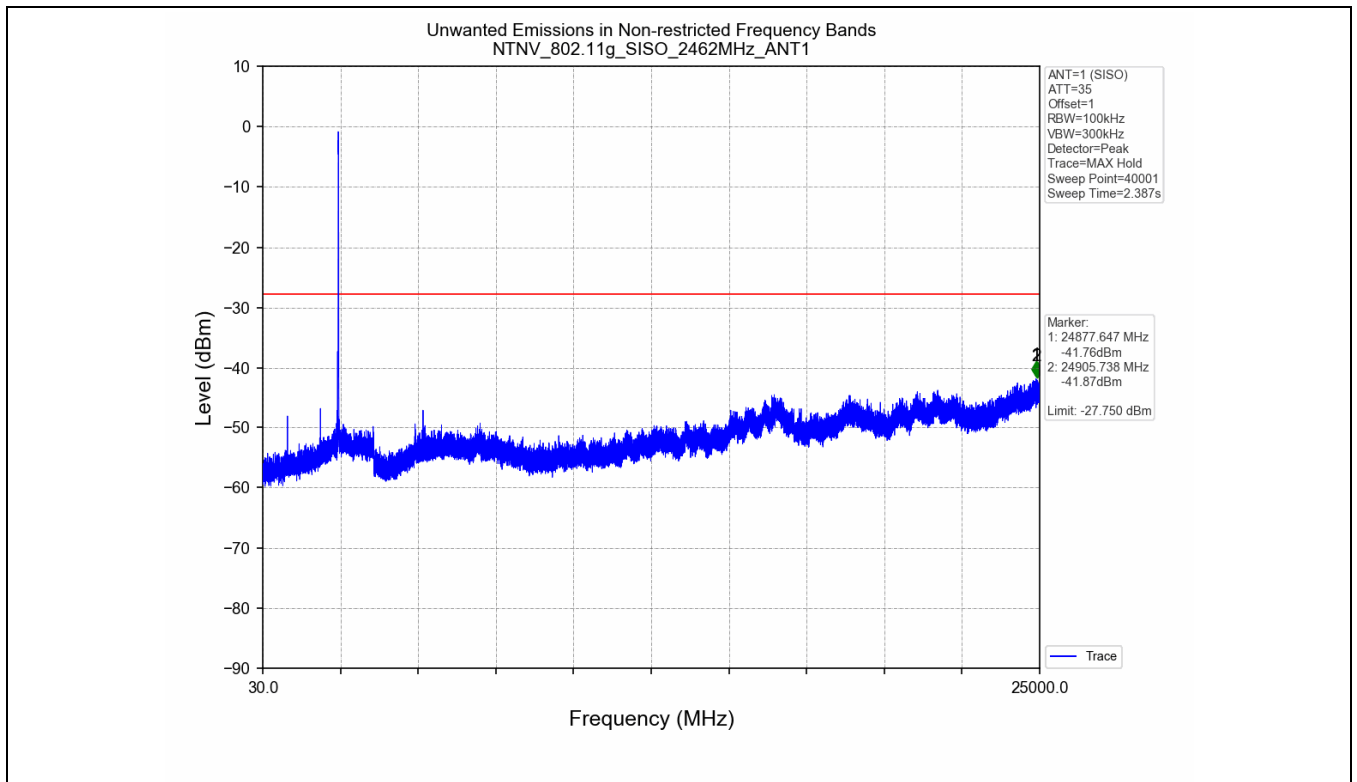


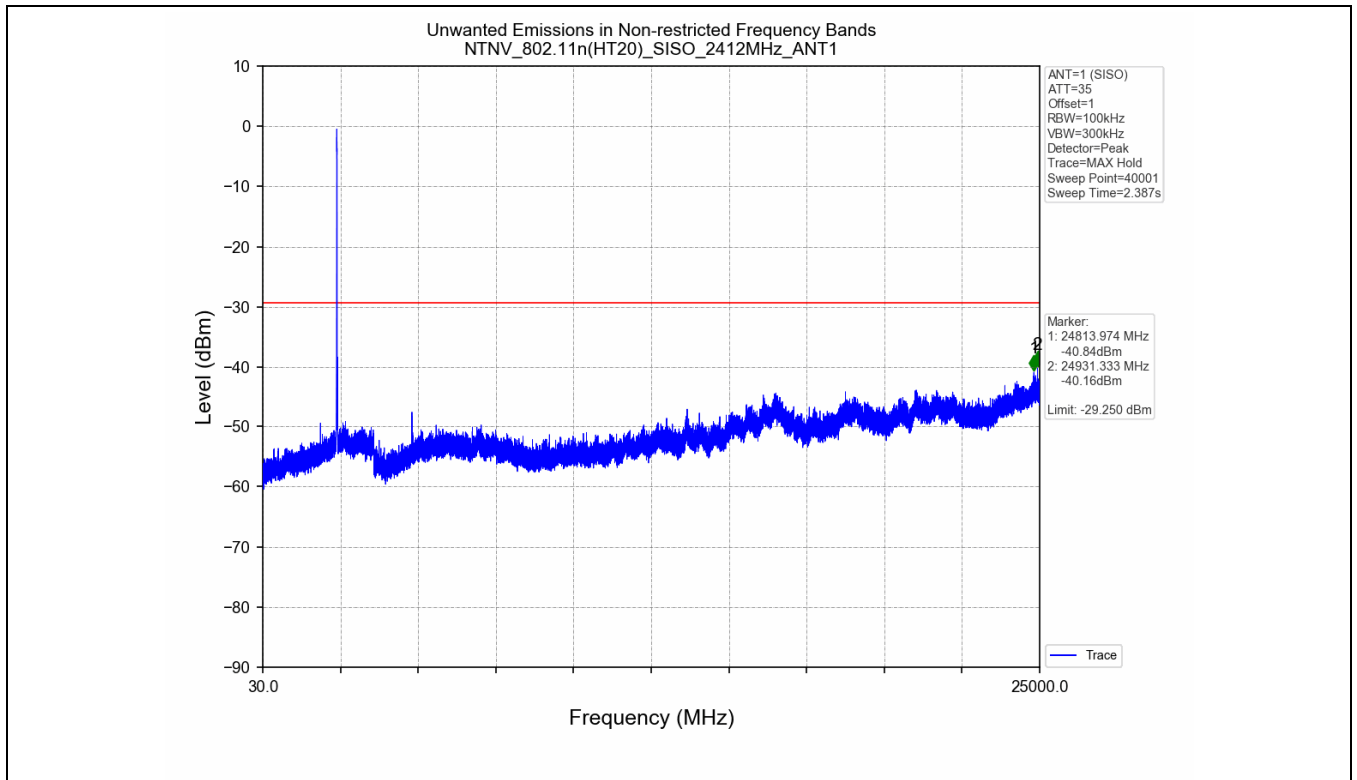
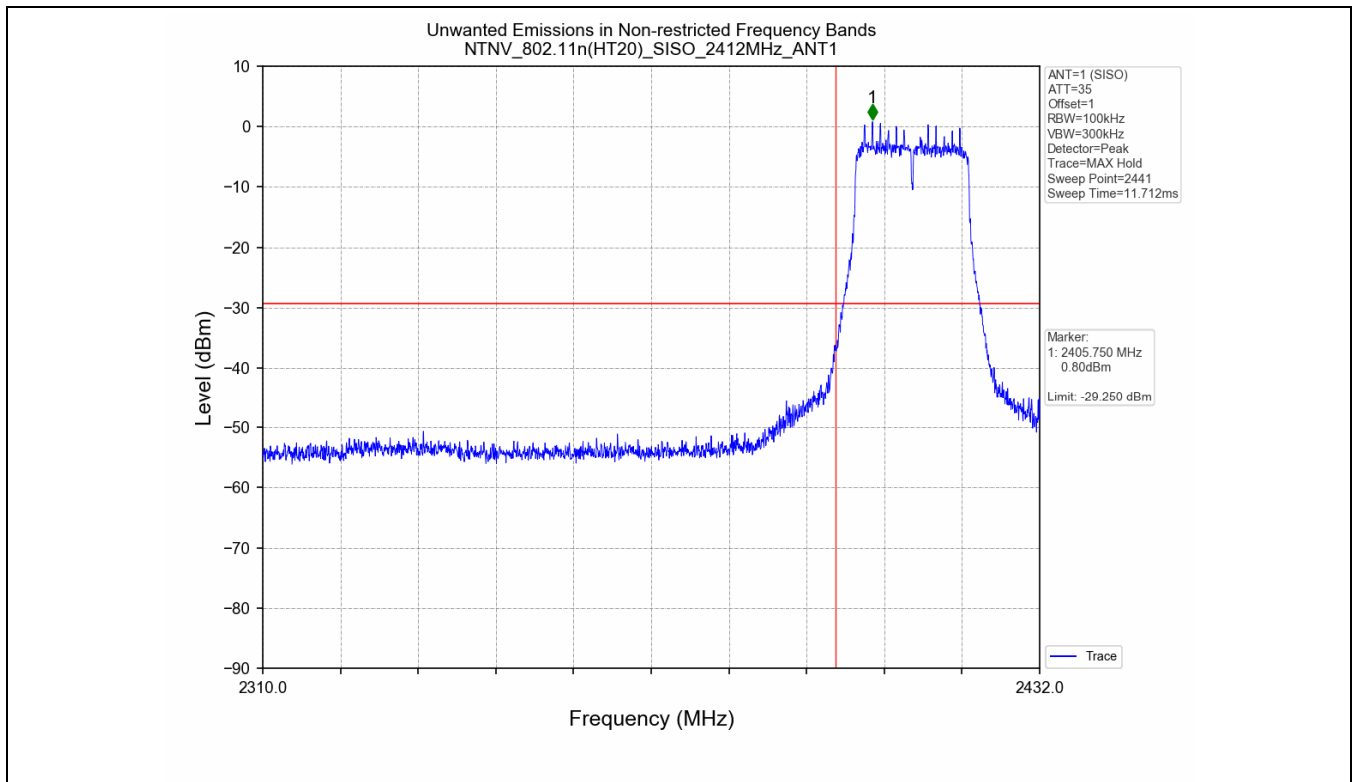


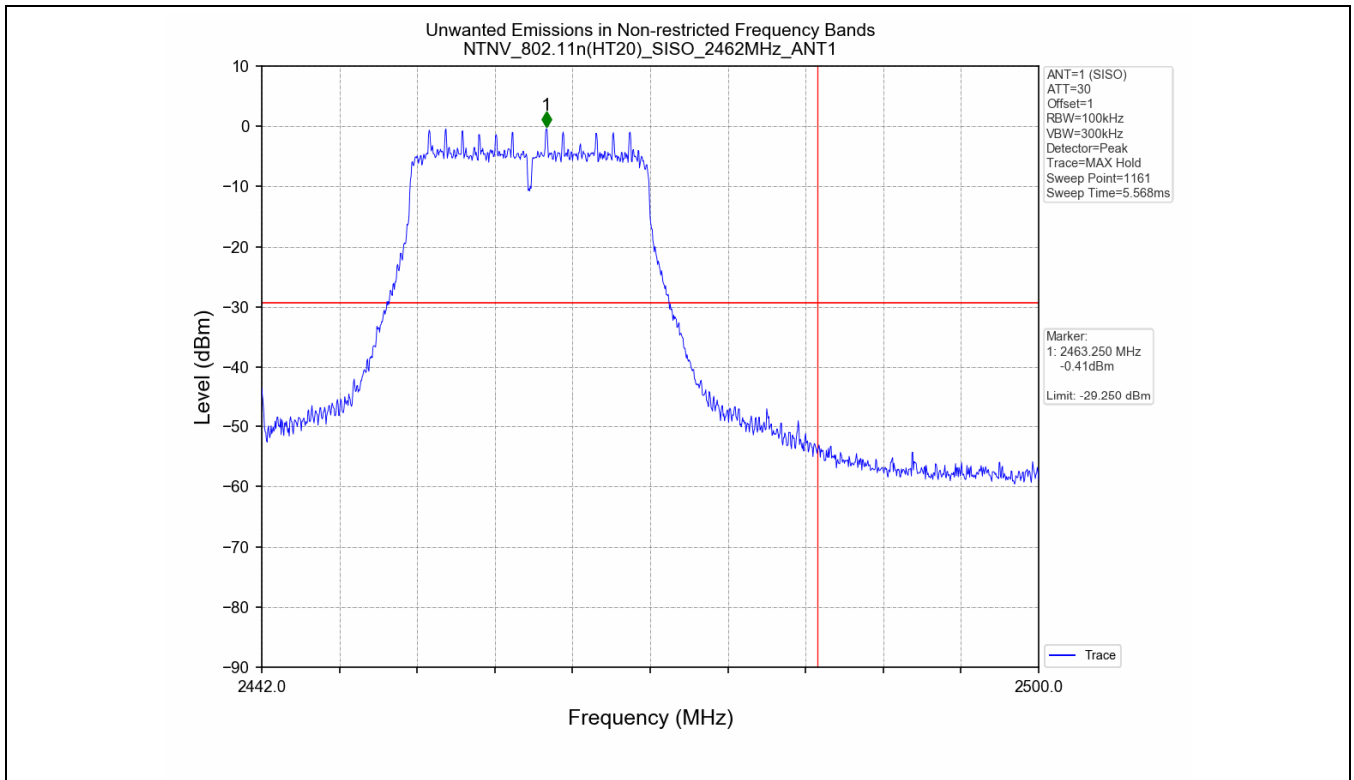
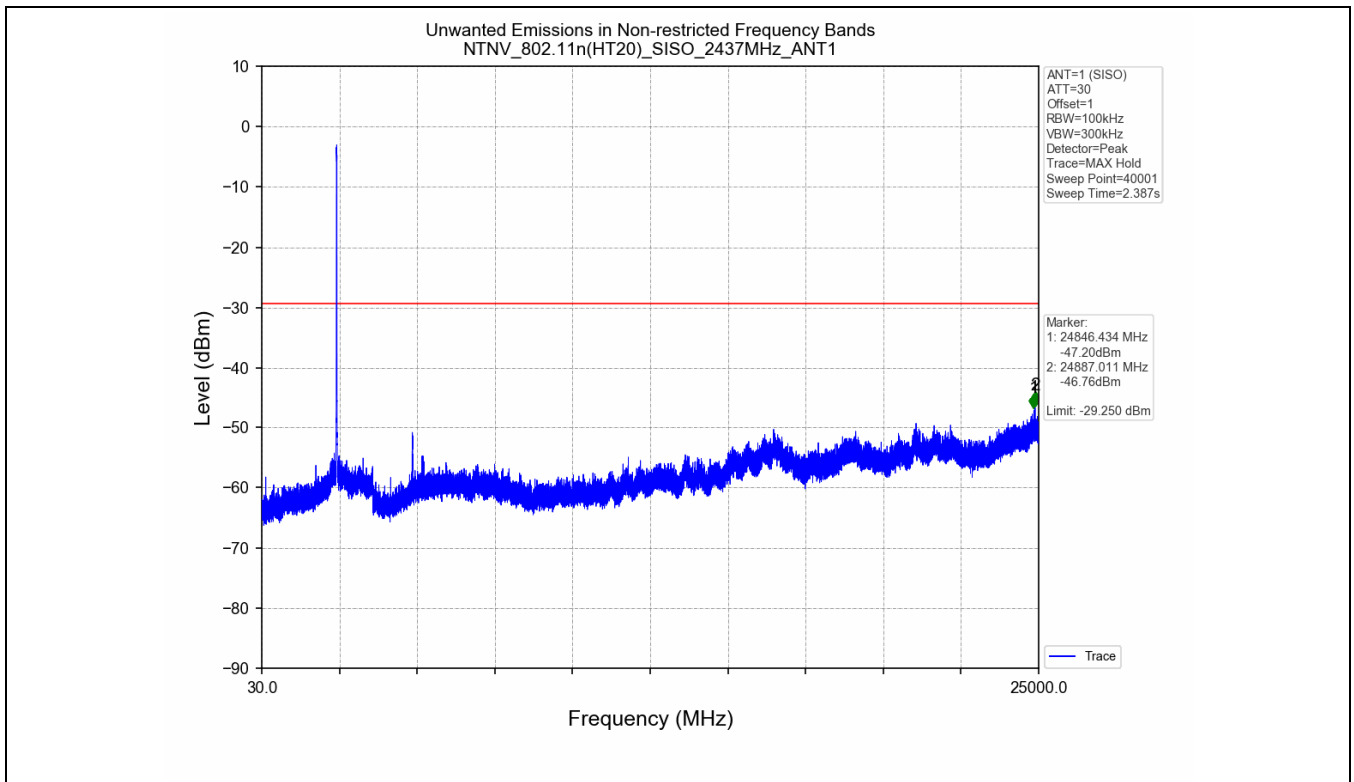


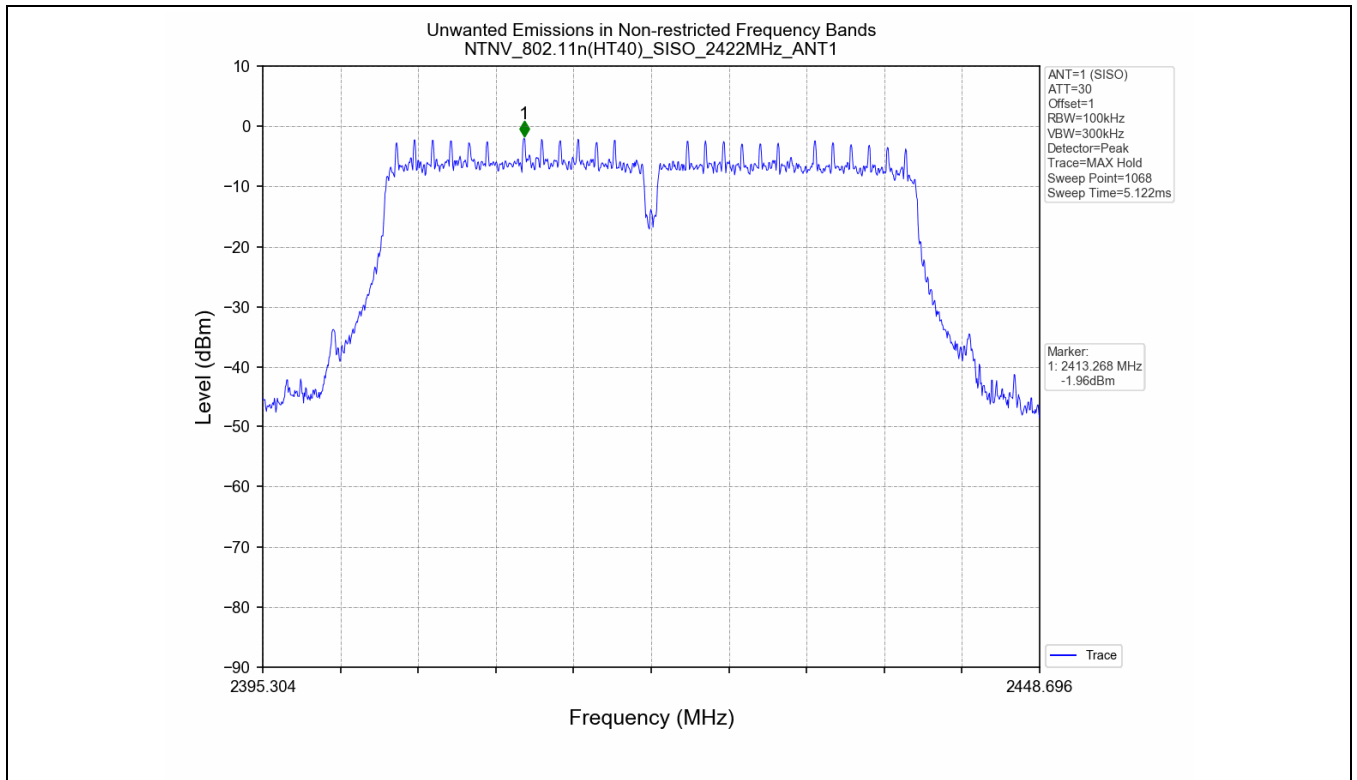
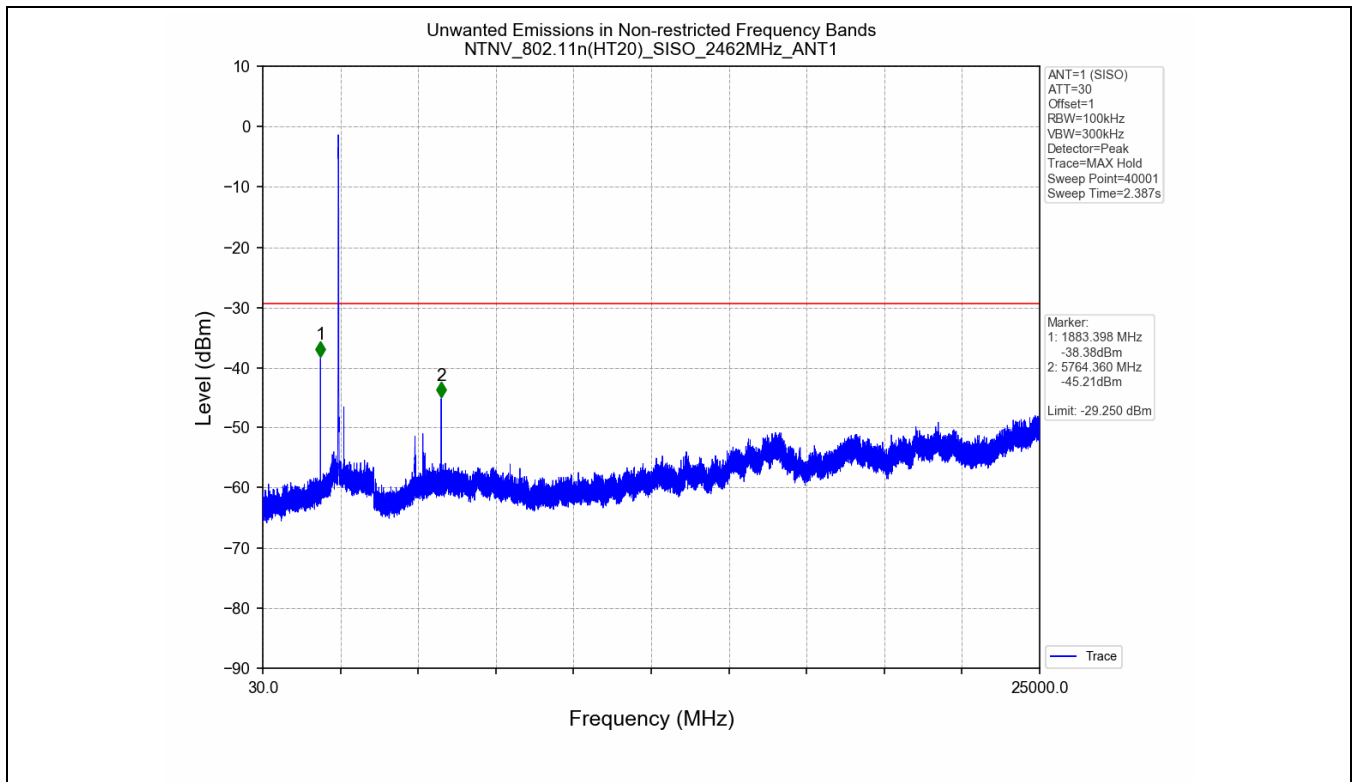


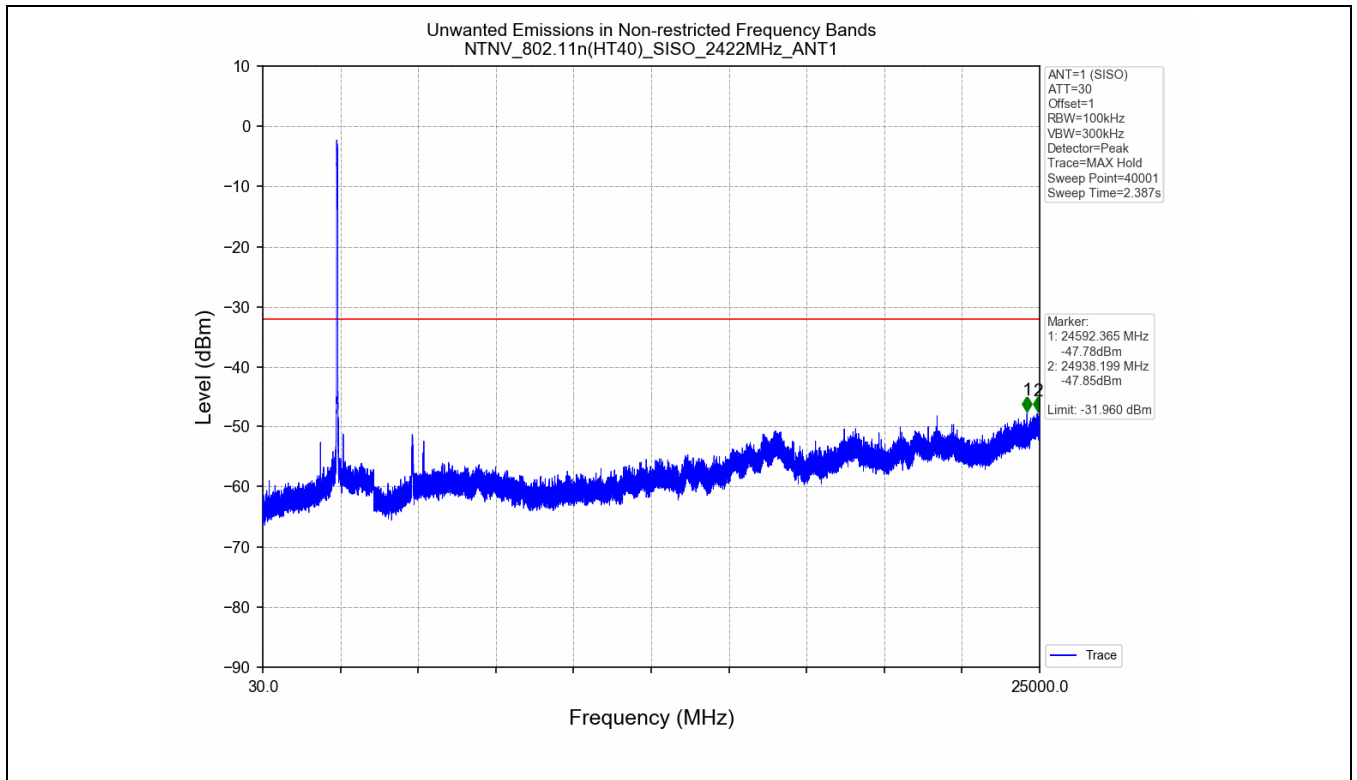
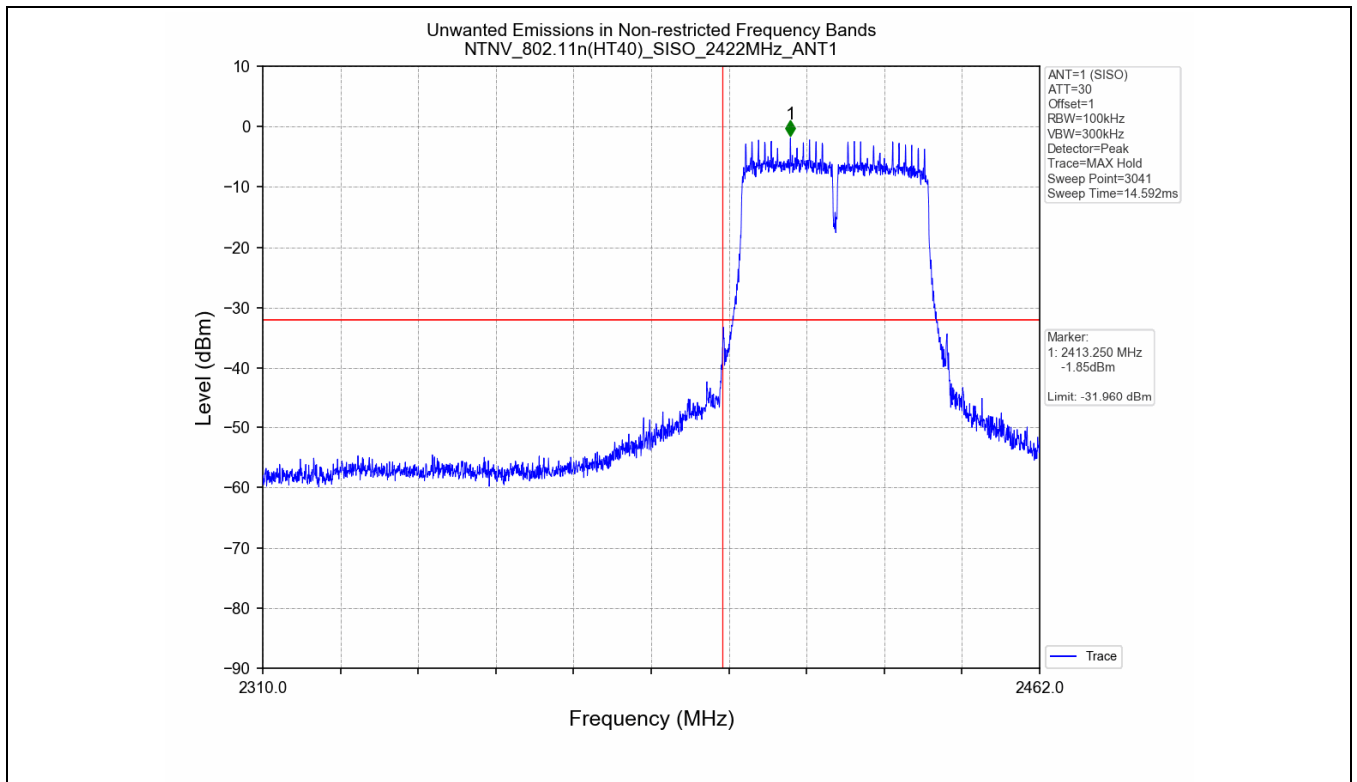


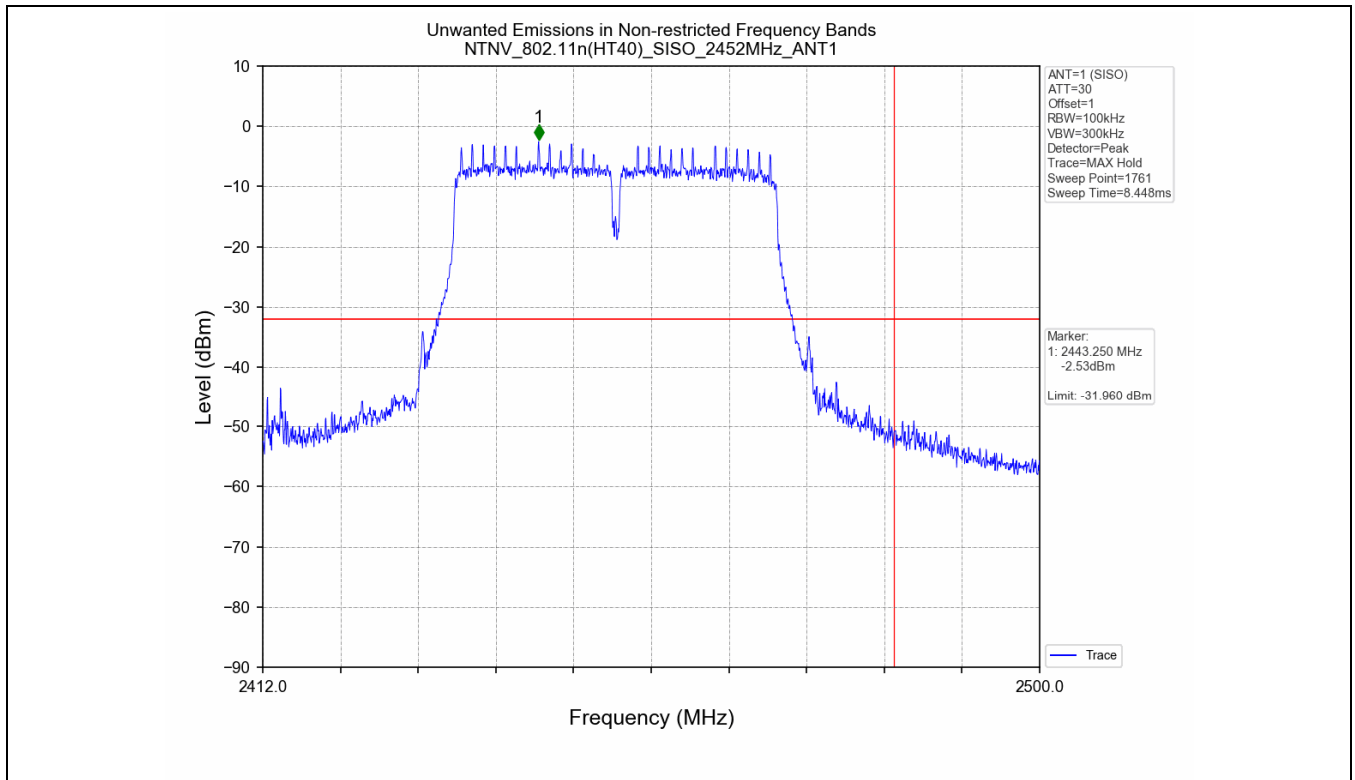
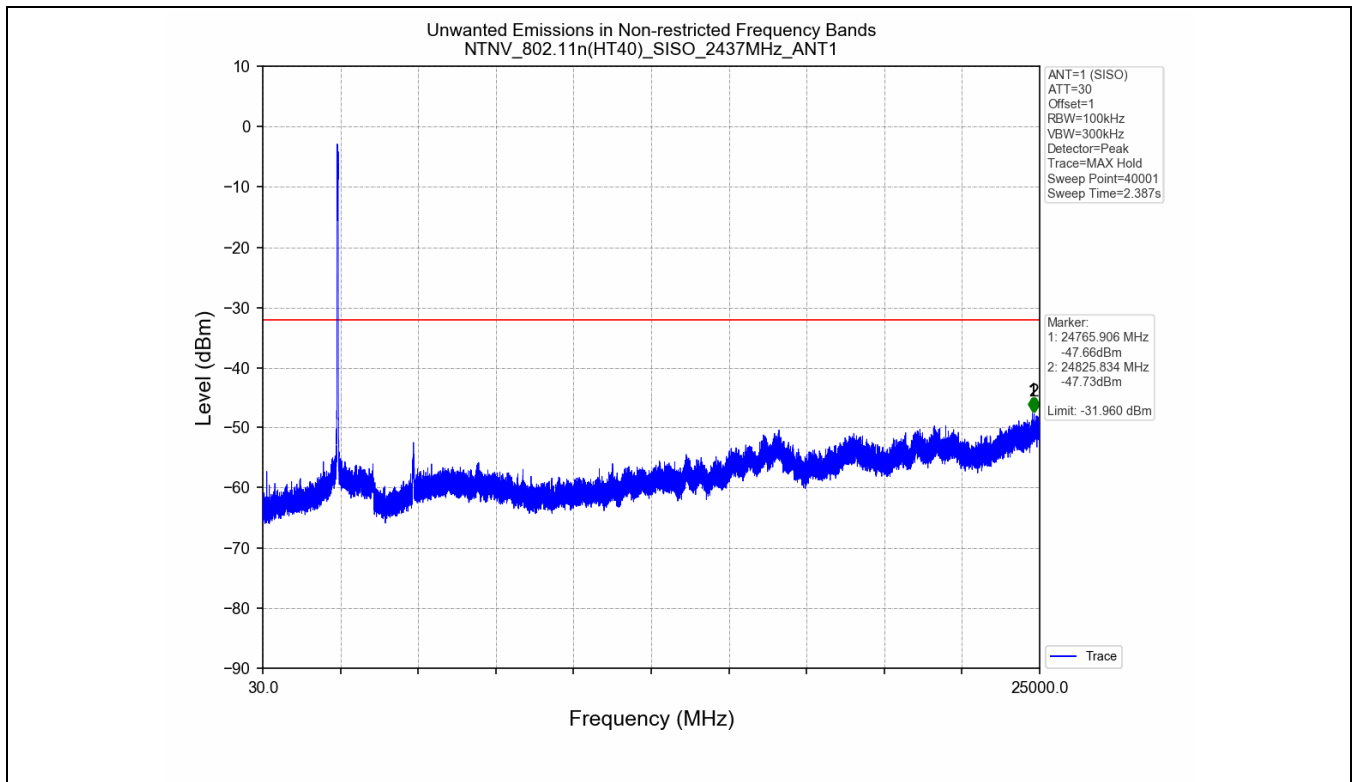


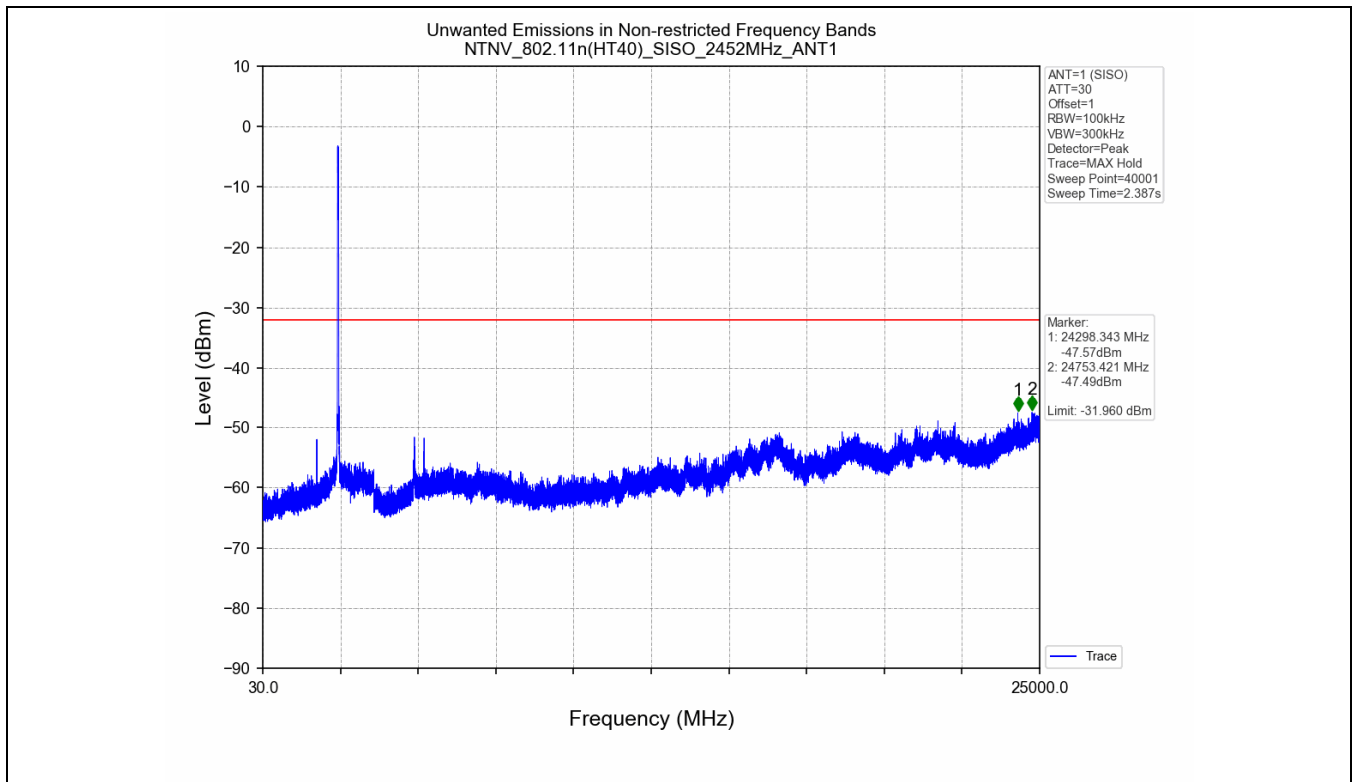












- End of the Report -

