

Appendix Test Data

Report No.:	182514C400003101	Test Sample No.:	1-2-2
Start Test Date:	2024.05.22	Finish Test Date:	2024.05.30
Test Engineer:	Joker Huang	Auditor:	Justin Feng
Temperature:	25.3℃	Relative Humidity:	48%
Pressure:	101kPa		

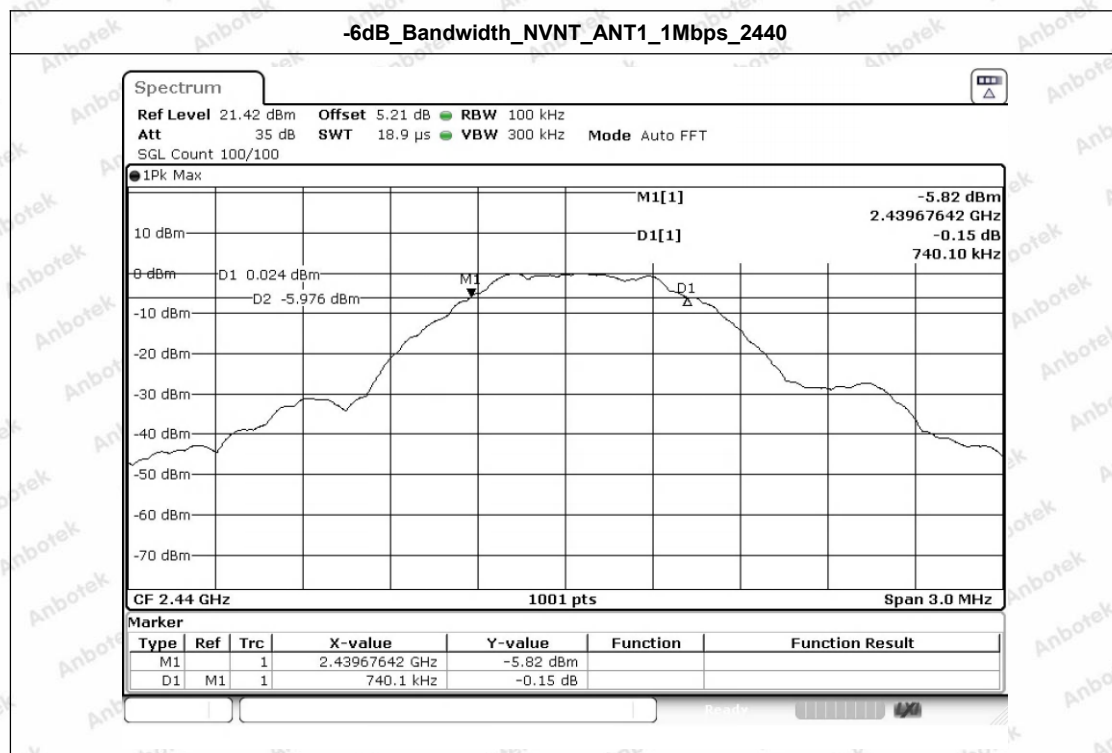
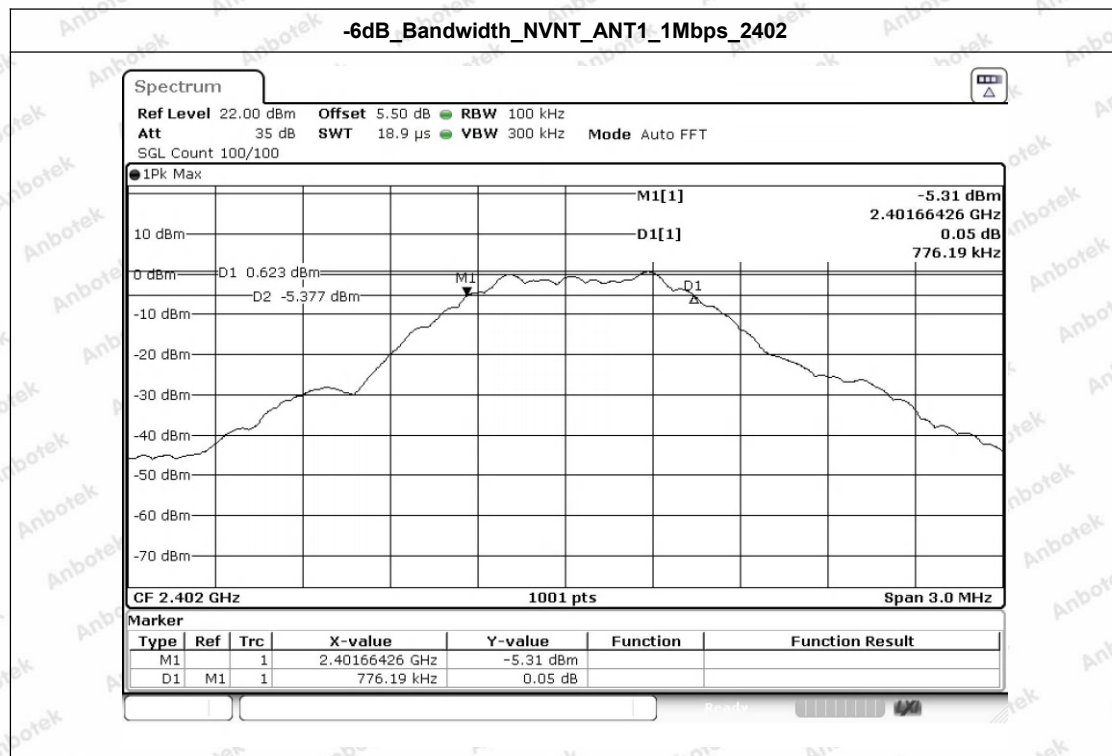
Appendix A: 6dB Bandwidth

Test Result

Condition	Antenna	Rate	Frequency (MHz)	-6dB BW(kHz)	limit(kHz)	Result
NVNT	ANT1	1Mbps	2402	776.19	500	Pass
NVNT	ANT1	1Mbps	2440	740.10	500	Pass
NVNT	ANT1	1Mbps	2480	743.17	500	Pass
NVNT	ANT1	2Mbps	2402	1402.62	500	Pass
NVNT	ANT1	2Mbps	2440	1243.65	500	Pass
NVNT	ANT1	2Mbps	2480	1315.58	500	Pass



Test Graphs



-6dB_Bandwidth_NVNT_ANT1_1Mbps_2480

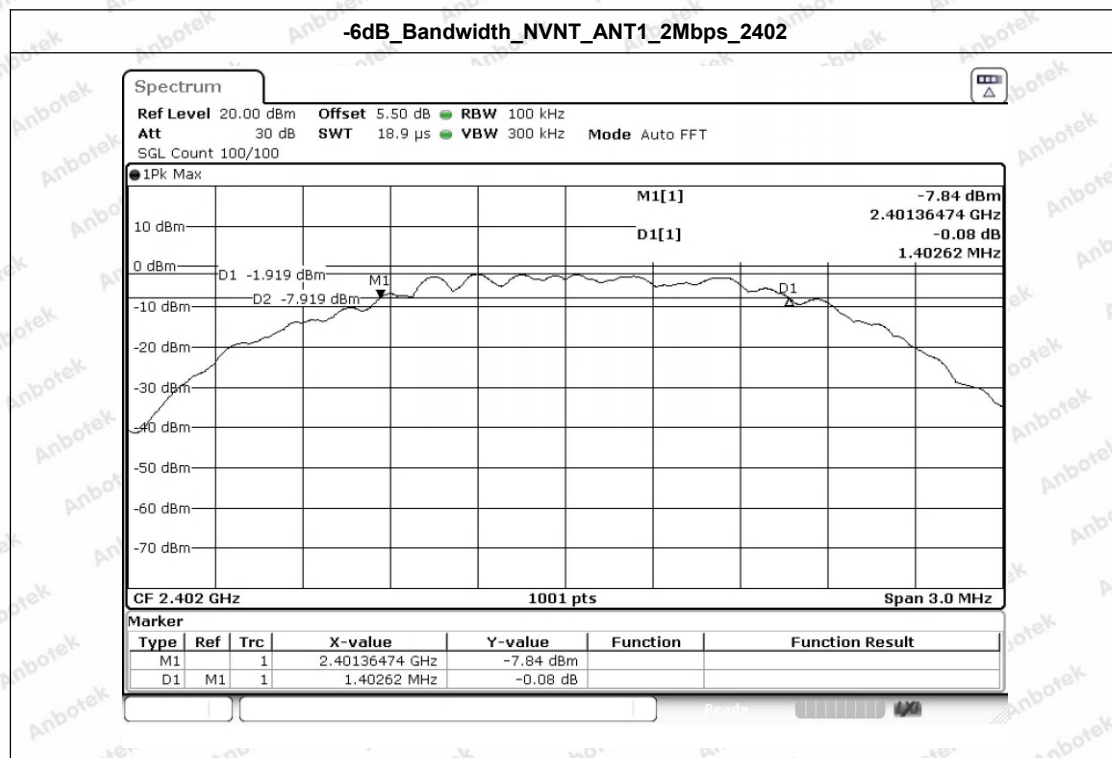
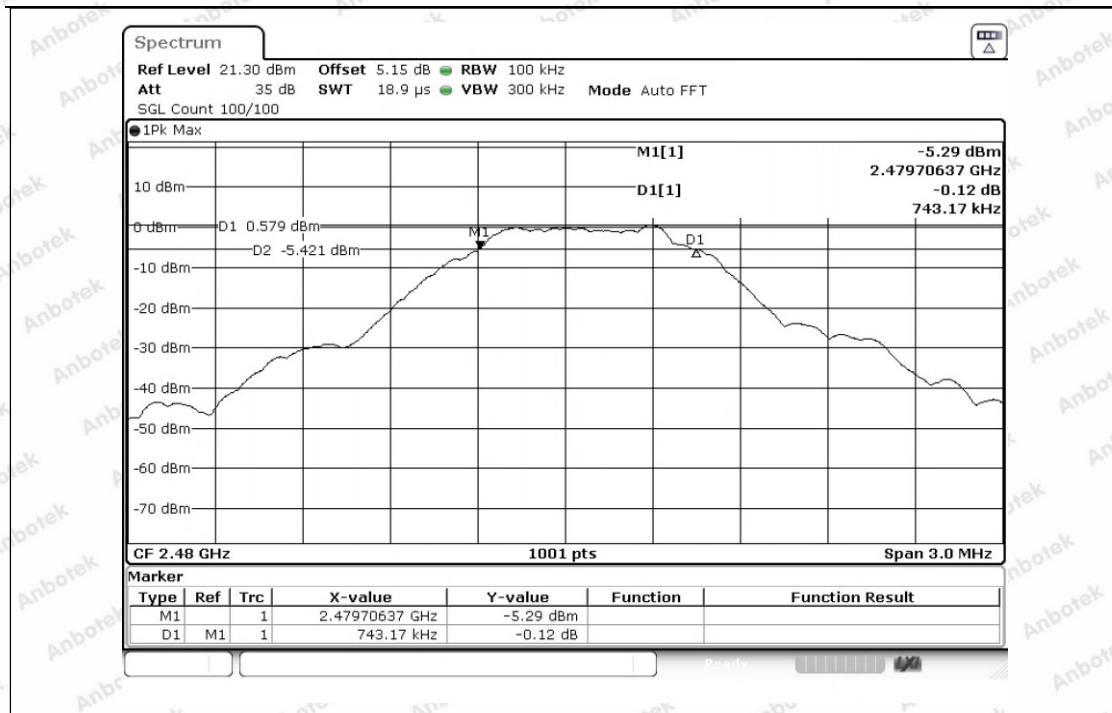
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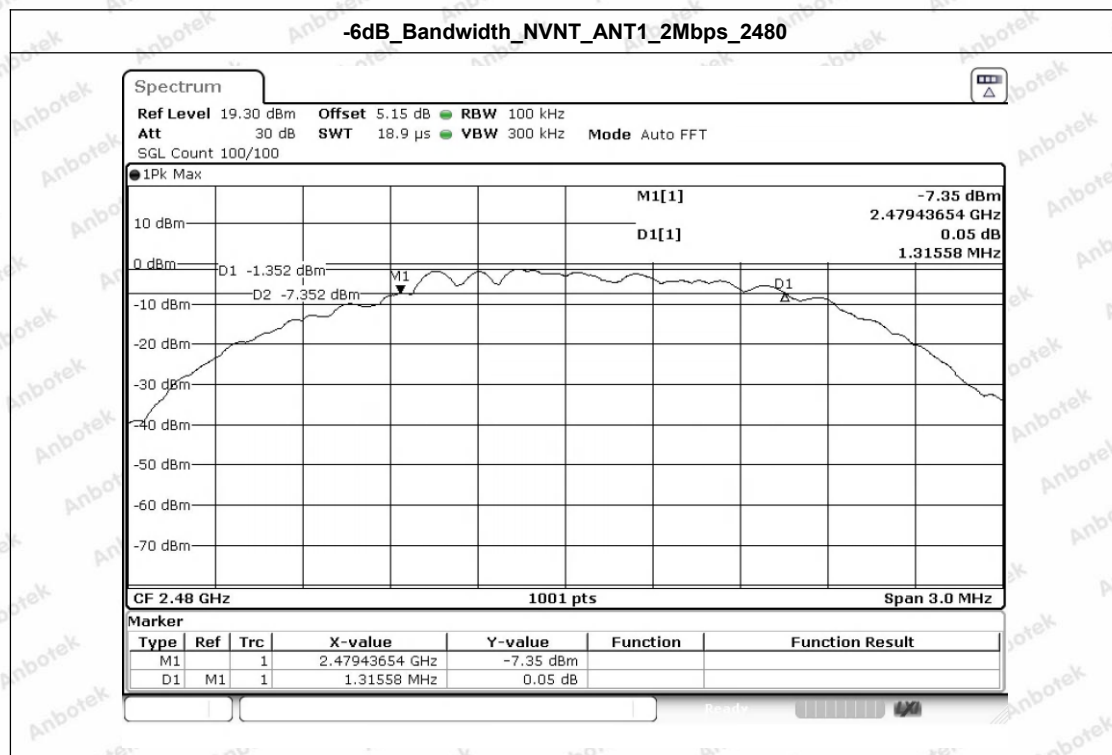
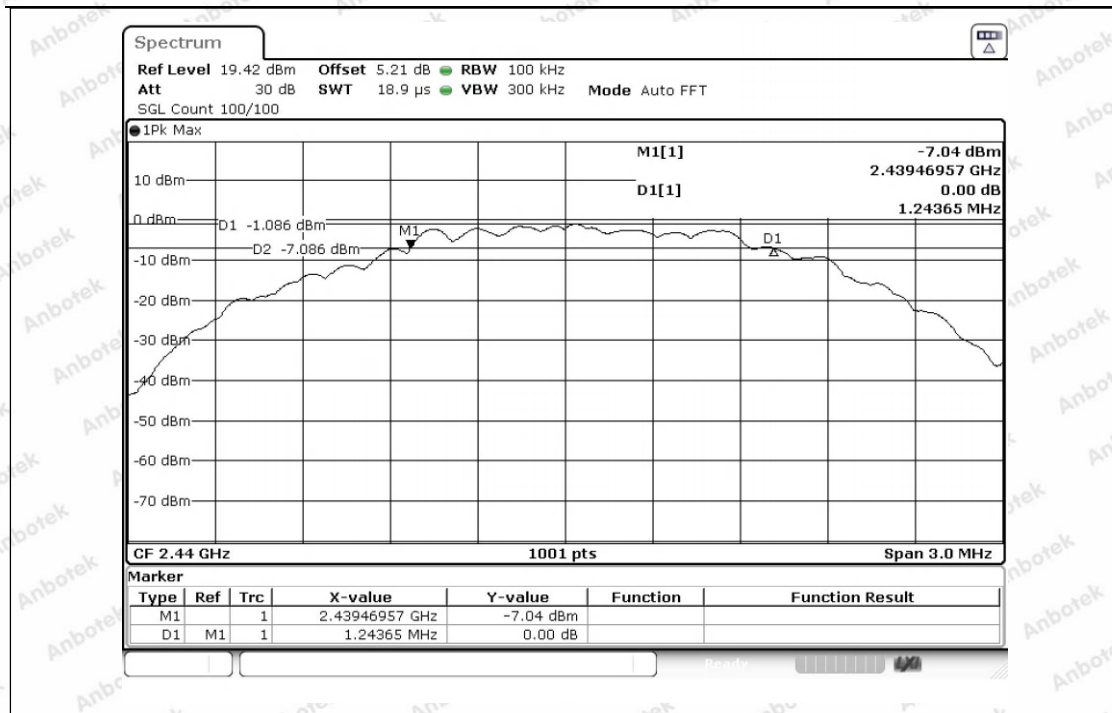
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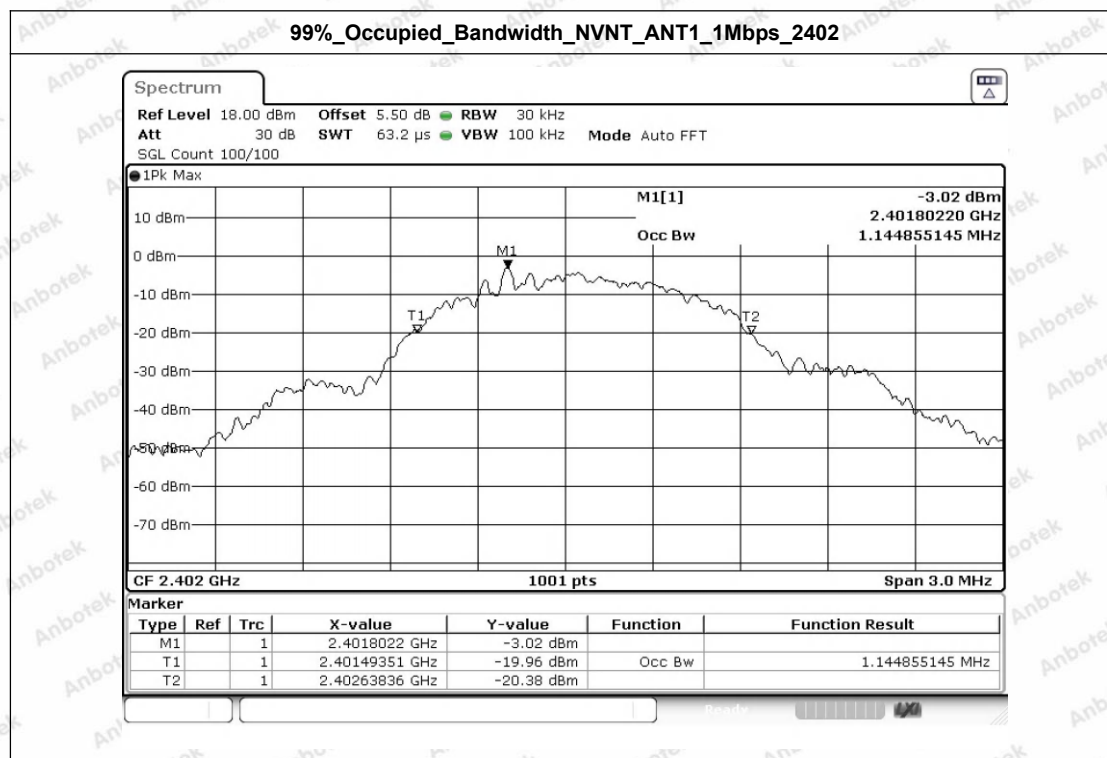


Appendix B: 99% Occupied Bandwidth

Test Result

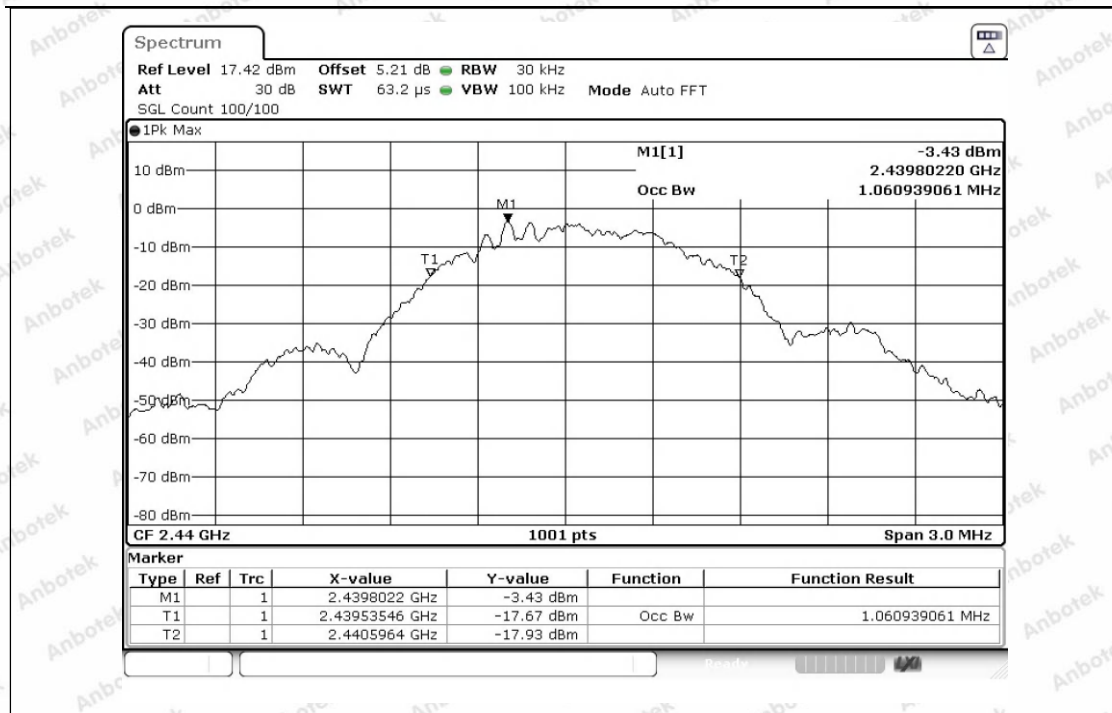
Condition	Antenna	Rate	Frequency (MHz)	99% BW (MHz)
NVNT	ANT1	1Mbps	2402	1.145
NVNT	ANT1	1Mbps	2440	1.061
NVNT	ANT1	1Mbps	2480	1.100
NVNT	ANT1	2Mbps	2402	2.065
NVNT	ANT1	2Mbps	2440	1.978
NVNT	ANT1	2Mbps	2480	2.068

Test Graphs

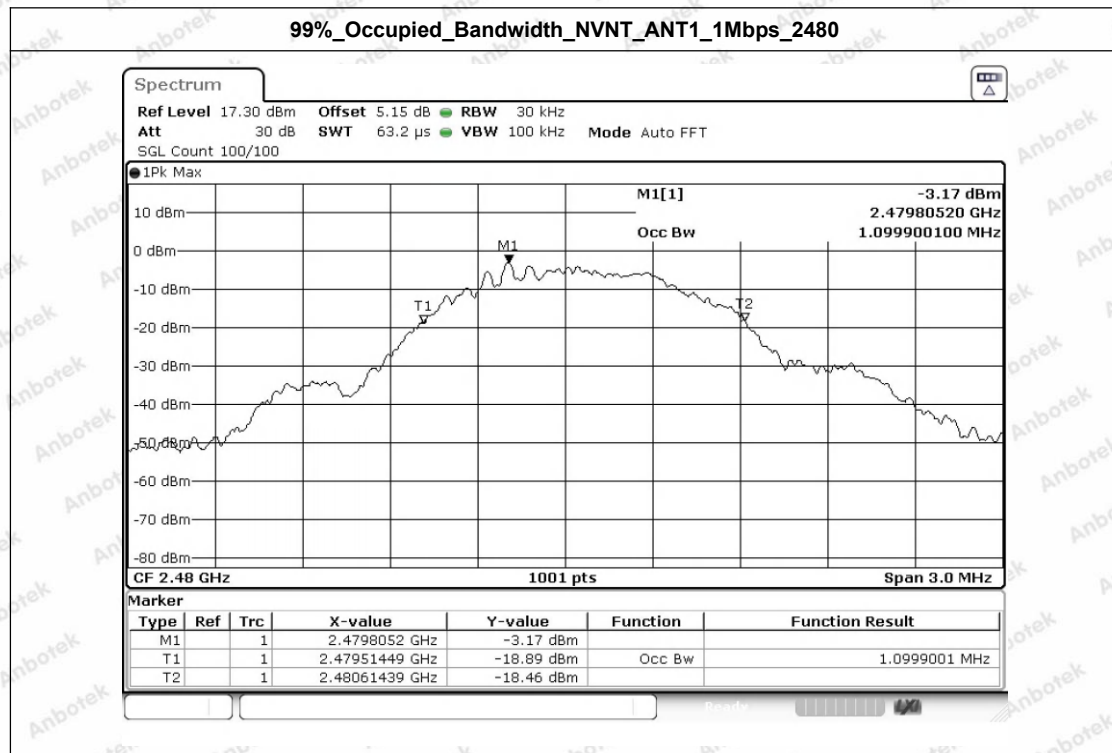


99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2440



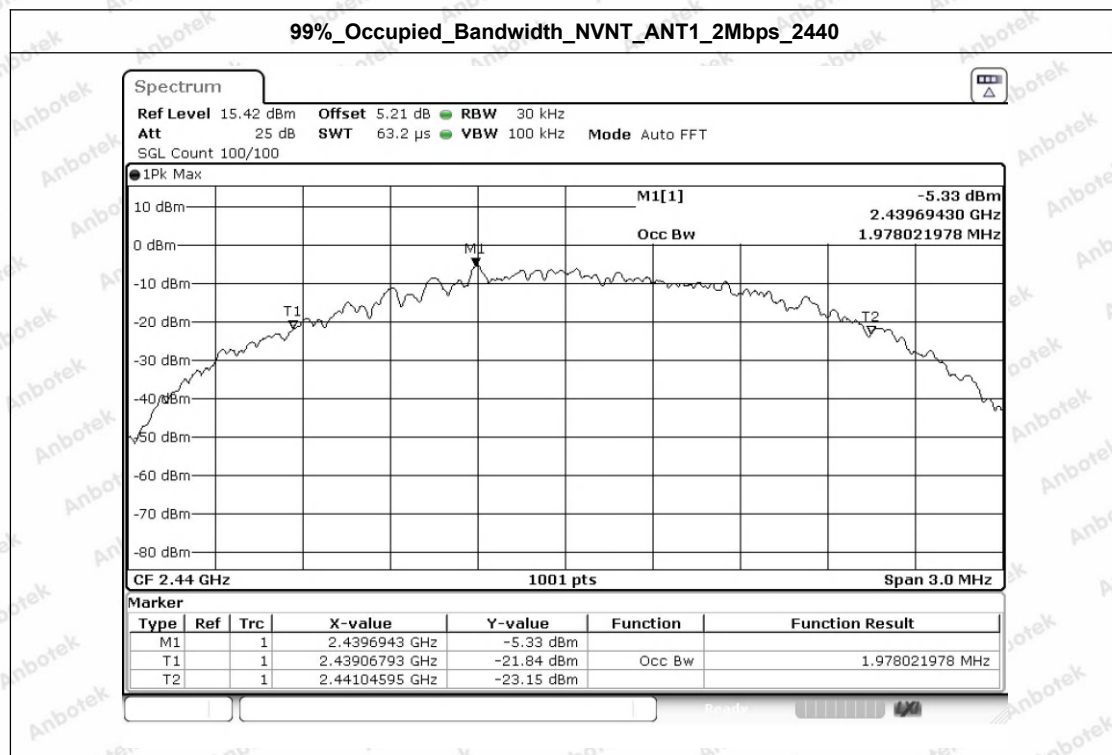
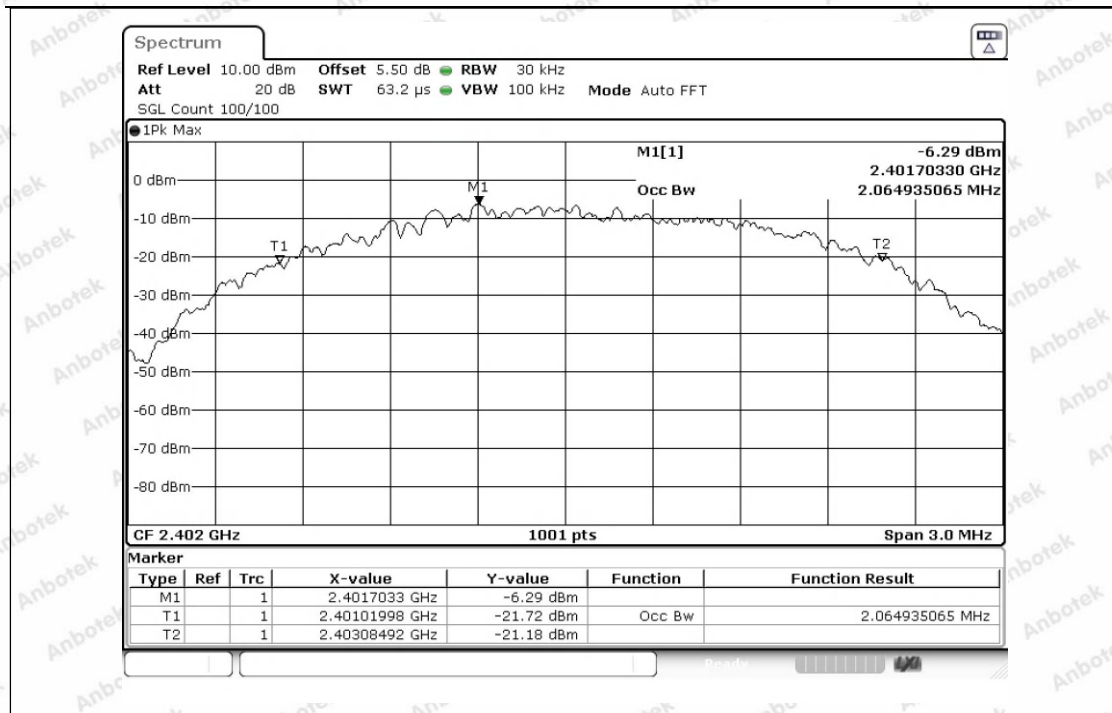


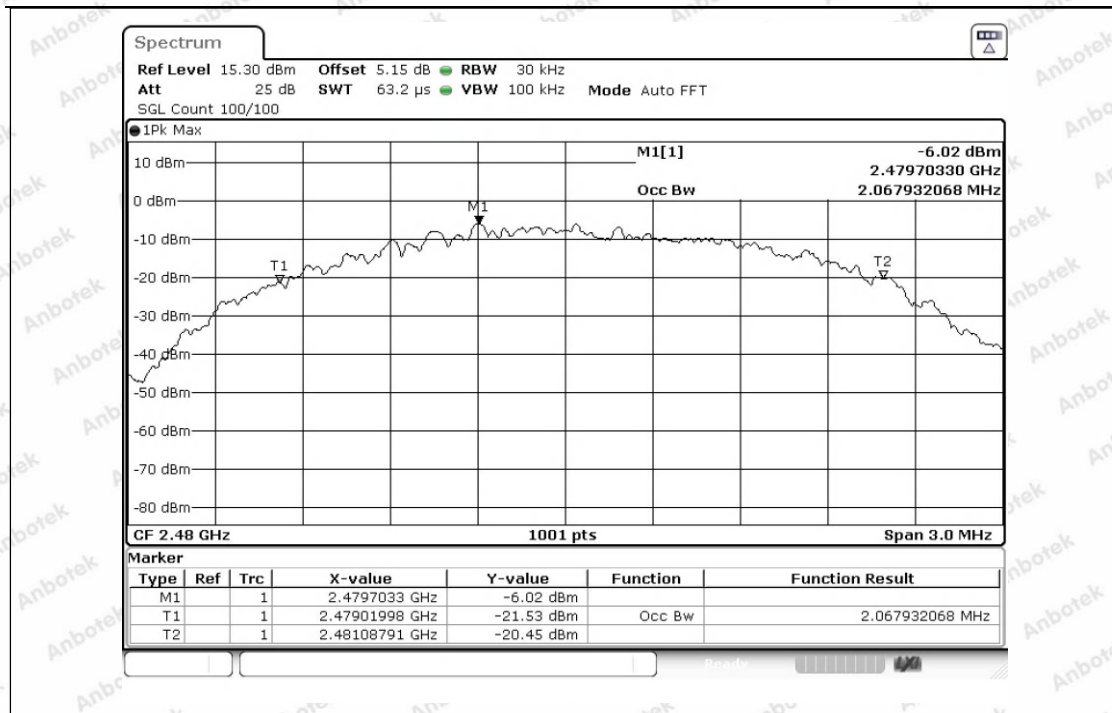
99%_Occupied_Bandwidth_NVNT_ANT1_1Mbps_2480



99%_Occupied_Bandwidth_NVNT_ANT1_2Mbps_2402



**99%_Occupied_Bandwidth_NVNT_ANT1_2Mbps_2480**



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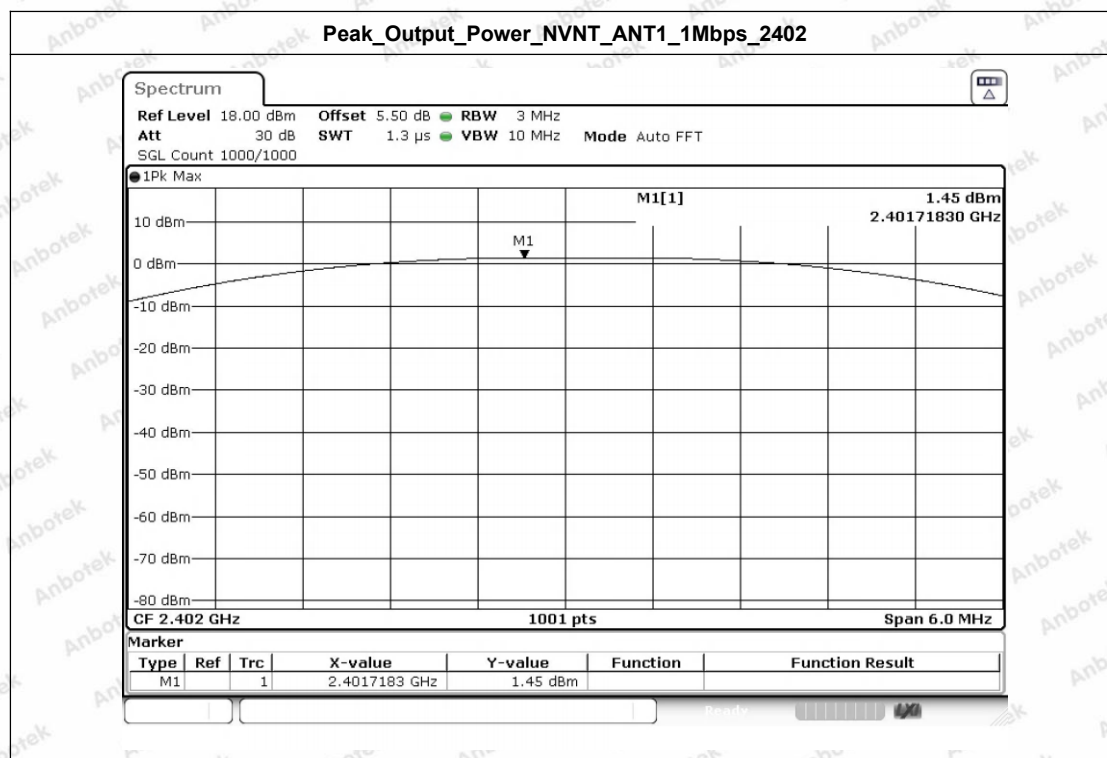


Appendix C: Maximum conducted output power

Test Result Peak

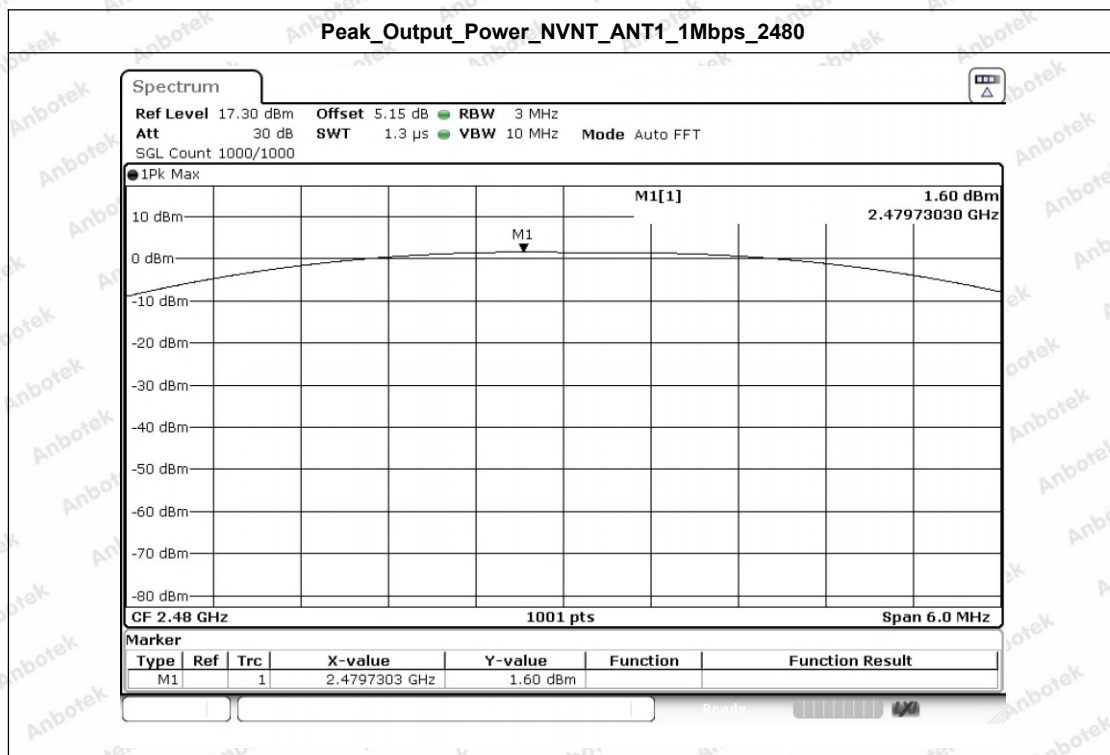
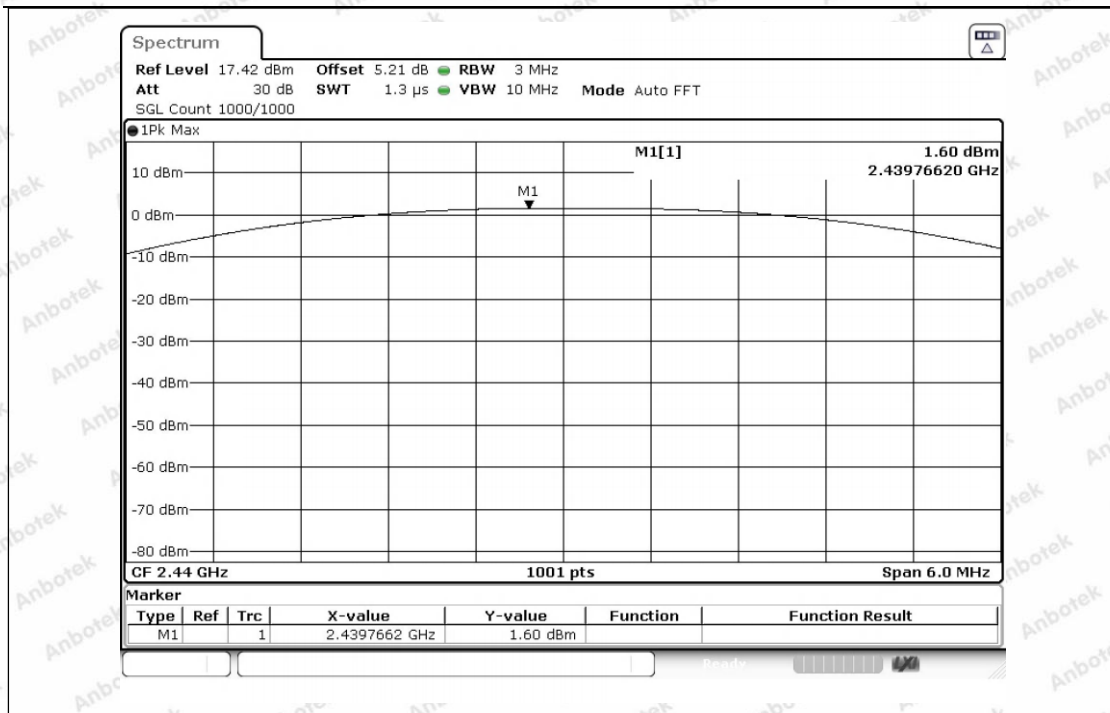
Condition	Antenna	Rate	Frequency (MHz)	Max. Conducted Power(dBm)	Max. Conducted Power(mW)	Limit(mW)	Result
NVNT	ANT1	1Mbps	2402	1.45	1.40	1000	Pass
NVNT	ANT1	1Mbps	2440	1.60	1.44	1000	Pass
NVNT	ANT1	1Mbps	2480	1.60	1.44	1000	Pass
NVNT	ANT1	2Mbps	2402	1.50	1.41	1000	Pass
NVNT	ANT1	2Mbps	2440	1.68	1.47	1000	Pass
NVNT	ANT1	2Mbps	2480	1.56	1.43	1000	Pass

Test Graphs Peak



Peak_Output_Power_NVNT_ANT1_1Mbps_2440





Peak_Output_Power_NVNT_ANT1_2Mbps_2402

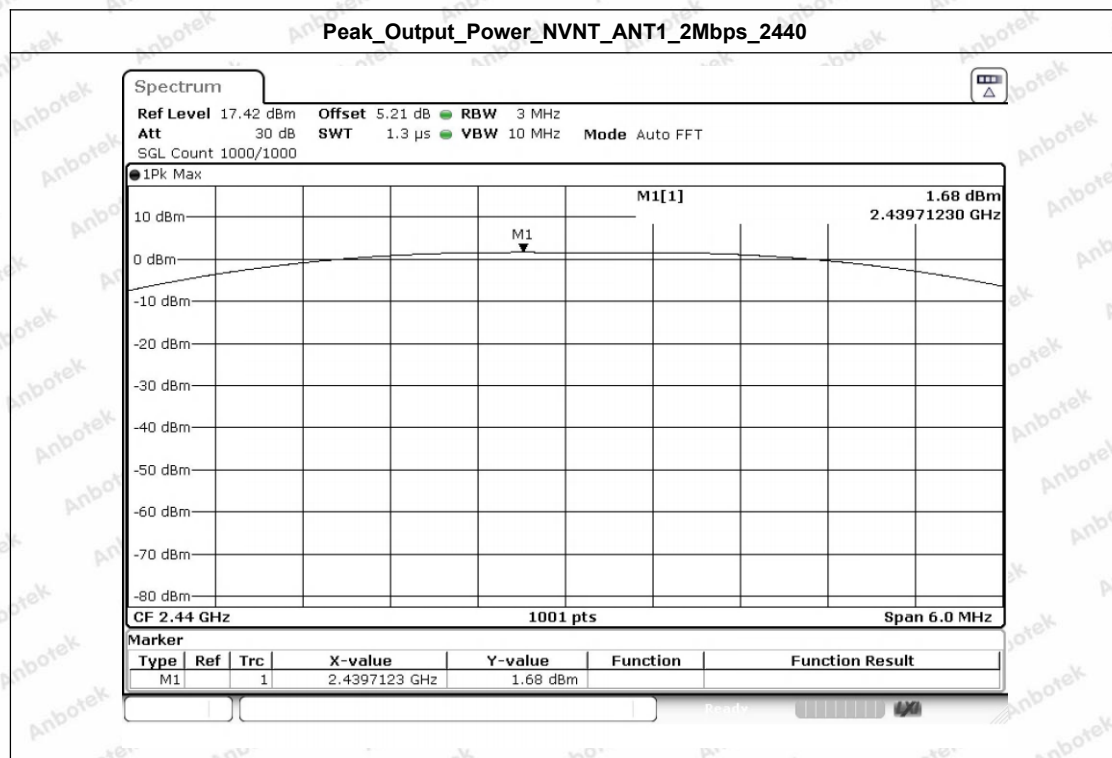
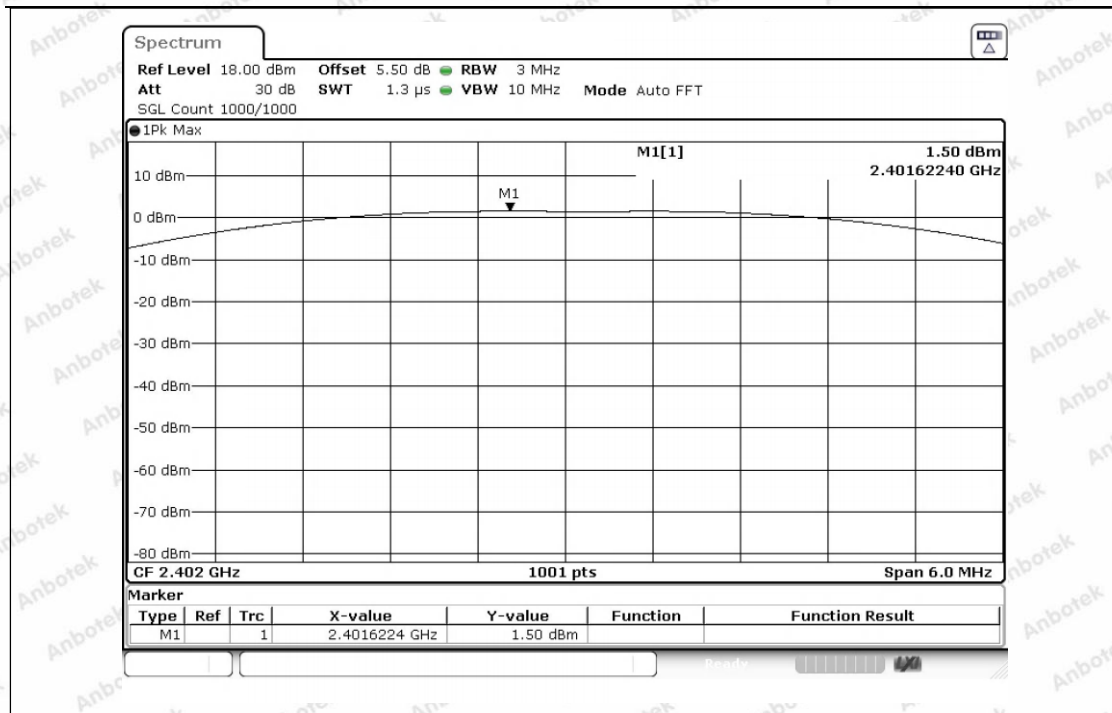
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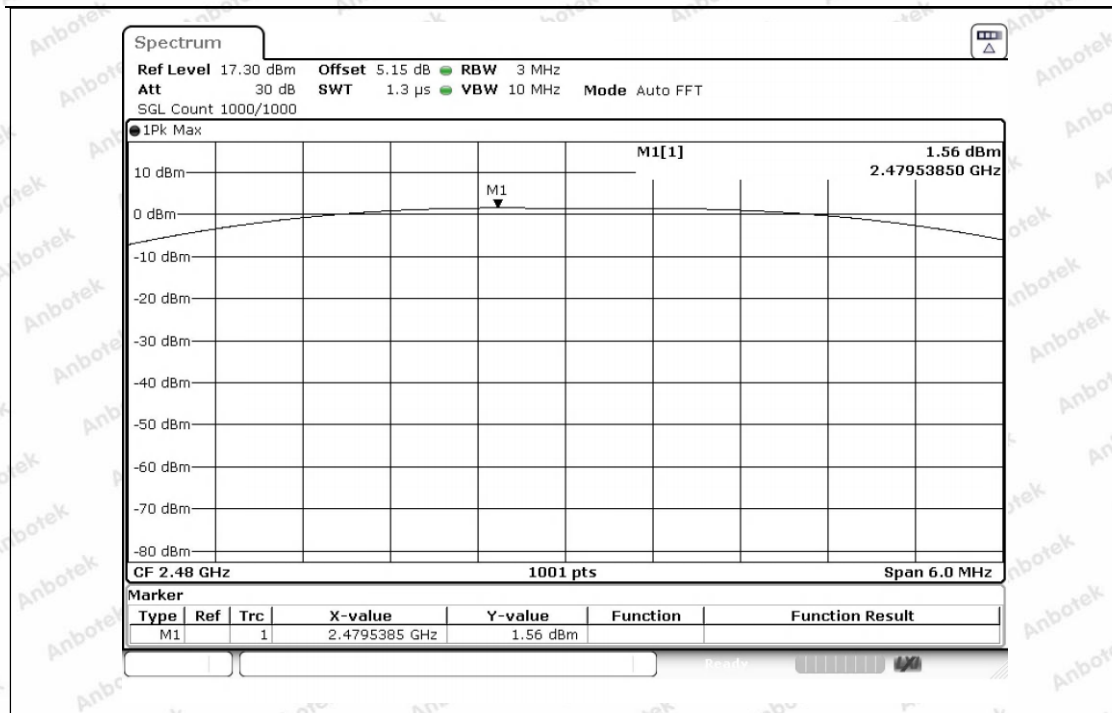
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Peak_Output_Power_NVNT_ANT1_2Mbps_2480



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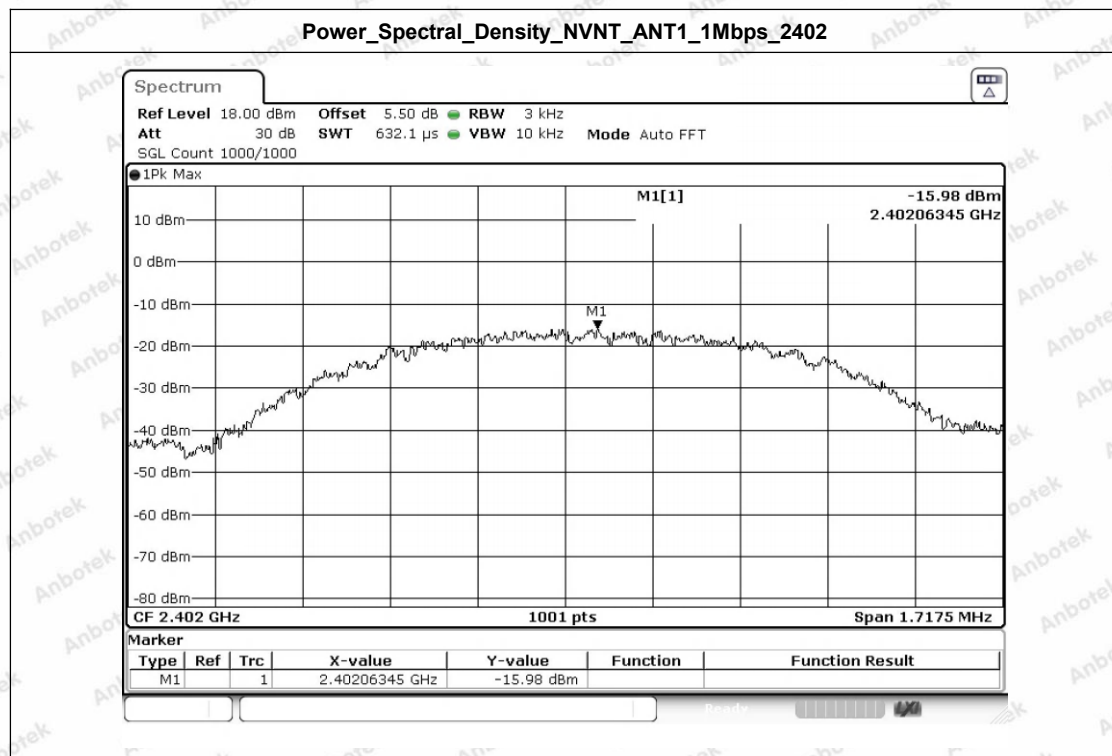


Appendix D: Maximum power spectral density

Test Result

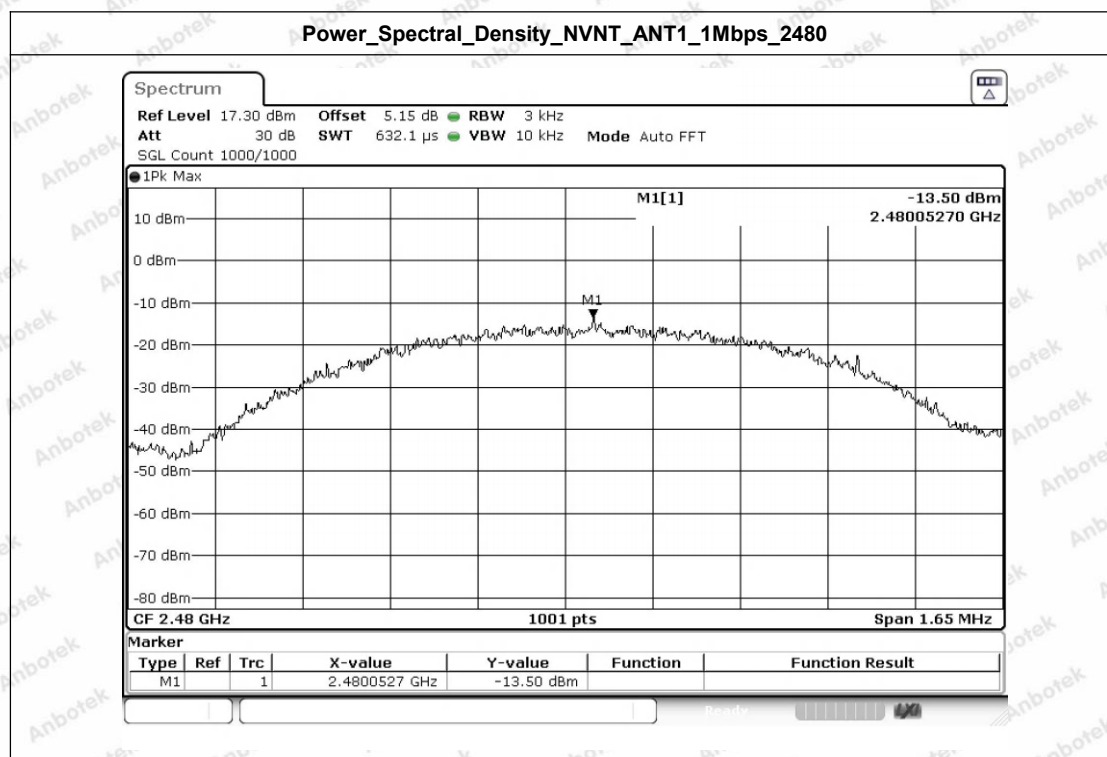
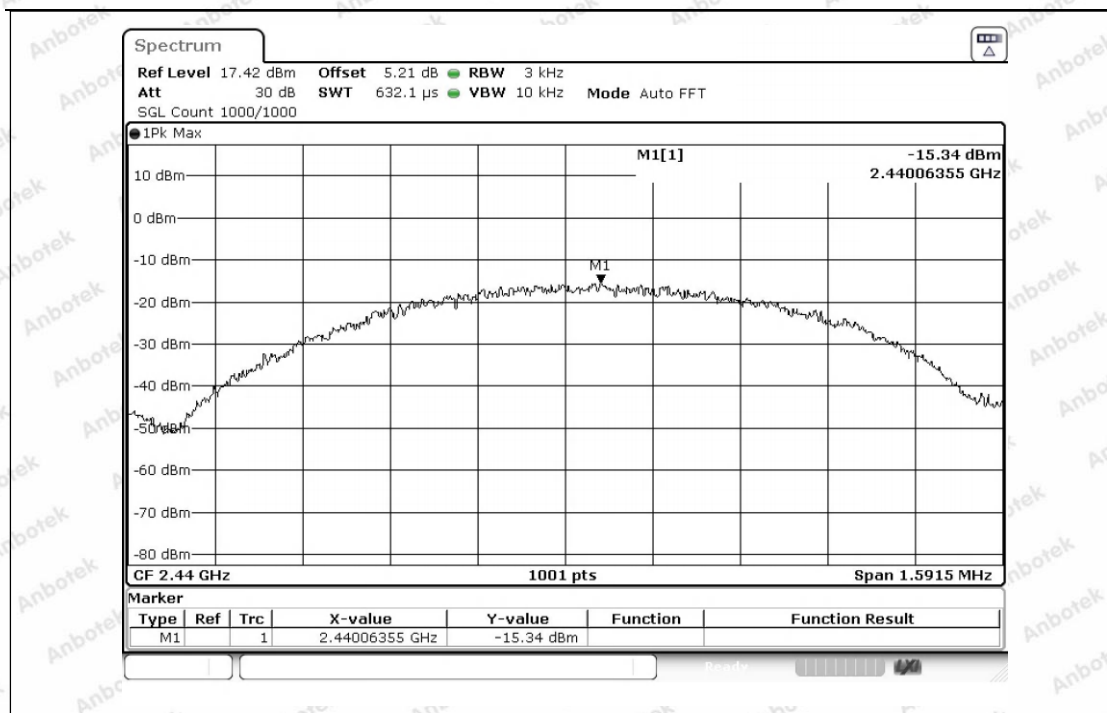
Condition	Antenna	Rate	Frequency (MHz)	Power Spectral Density(dBm)	Limit(dBm/3kHz)	Result
NVNT	ANT1	1Mbps	2402	-15.98	8	Pass
NVNT	ANT1	1Mbps	2440	-15.34	8	Pass
NVNT	ANT1	1Mbps	2480	-13.50	8	Pass
NVNT	ANT1	2Mbps	2402	-19.77	8	Pass
NVNT	ANT1	2Mbps	2440	-18.79	8	Pass
NVNT	ANT1	2Mbps	2480	-18.81	8	Pass

Test Graphs



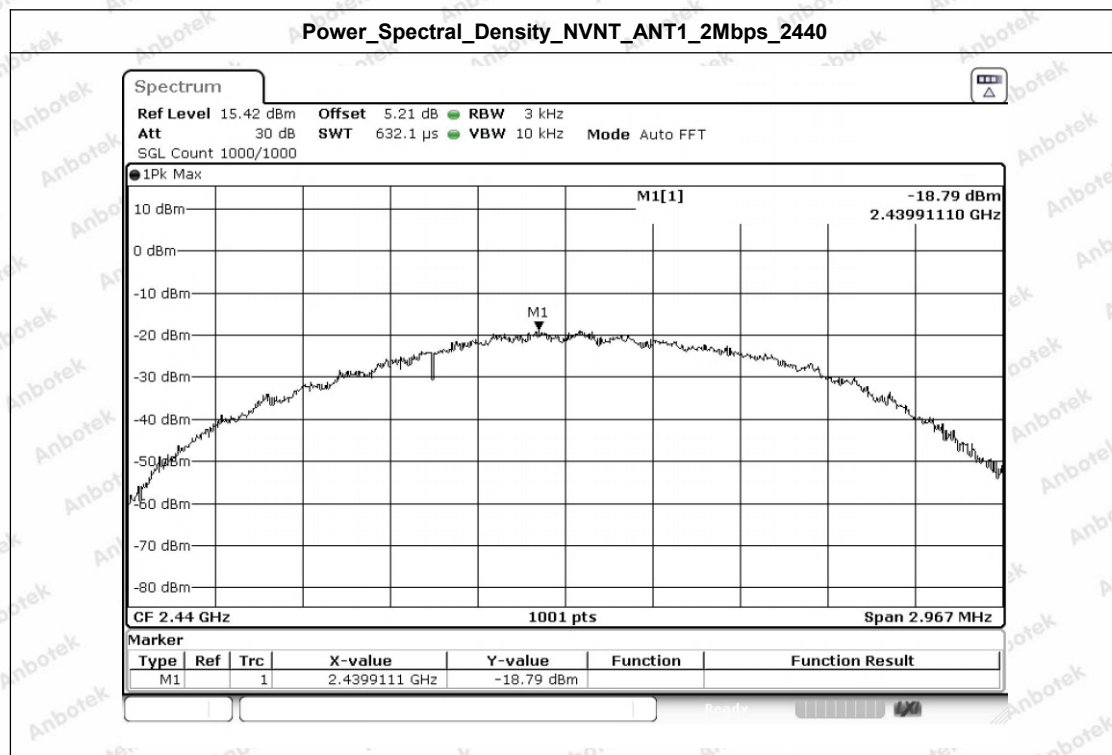
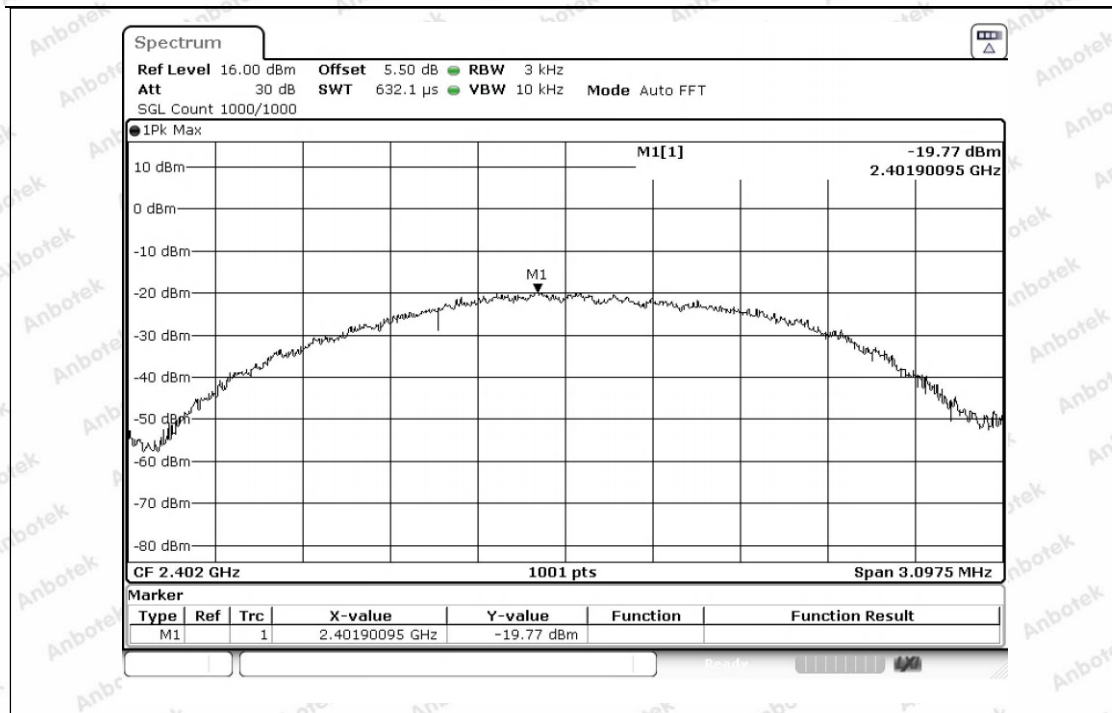
Power_Spectral_Density_NVNT_ANT1_1Mbps_2440





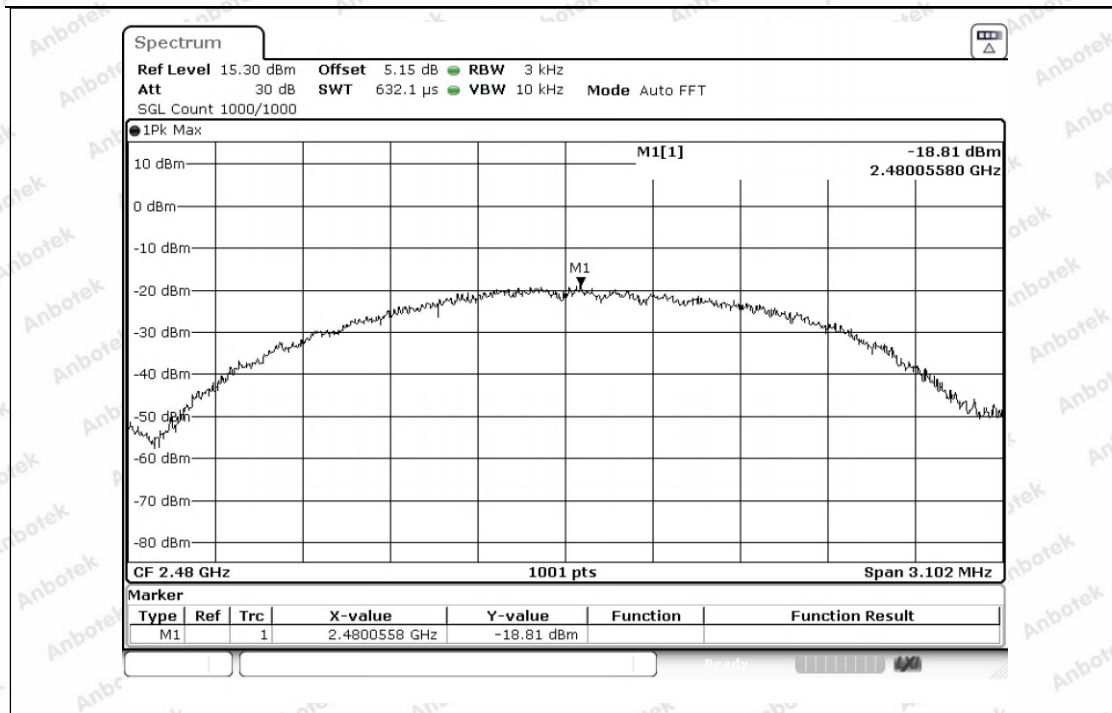
Power_Spectral_Density_NVNT_ANT1_2Mbps_2402





Power_Spectral_Density_NVNT_ANT1_2Mbps_2480



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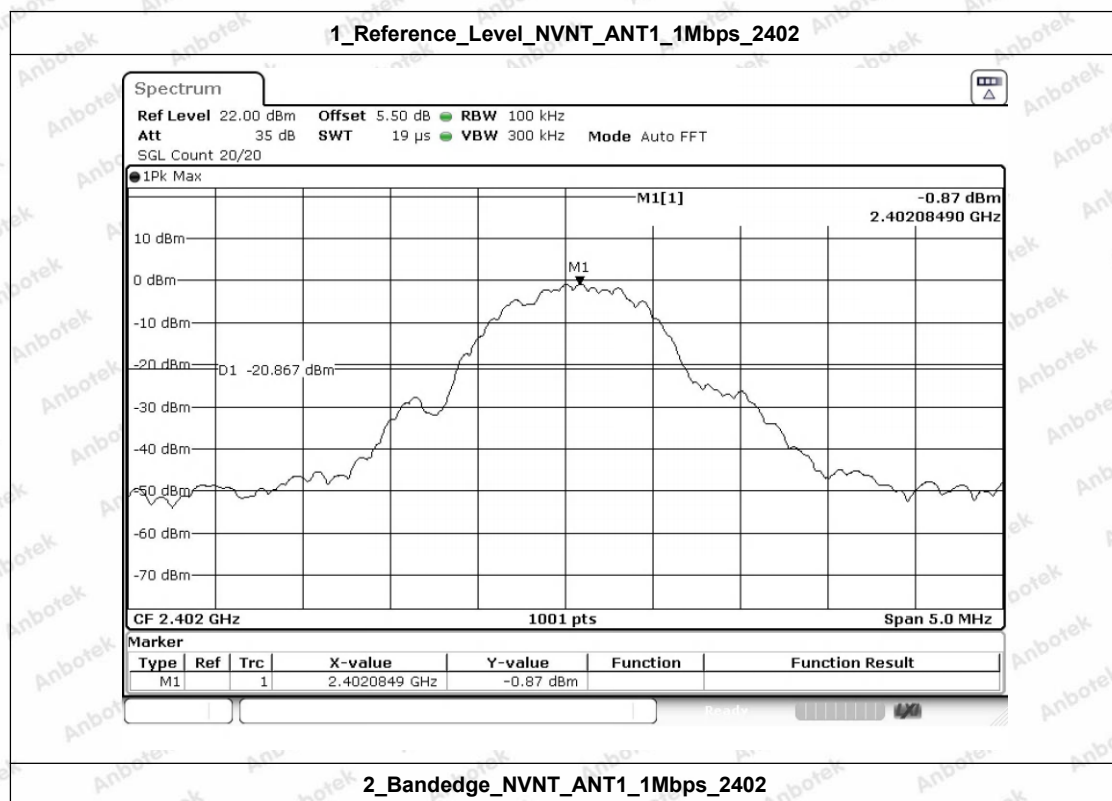


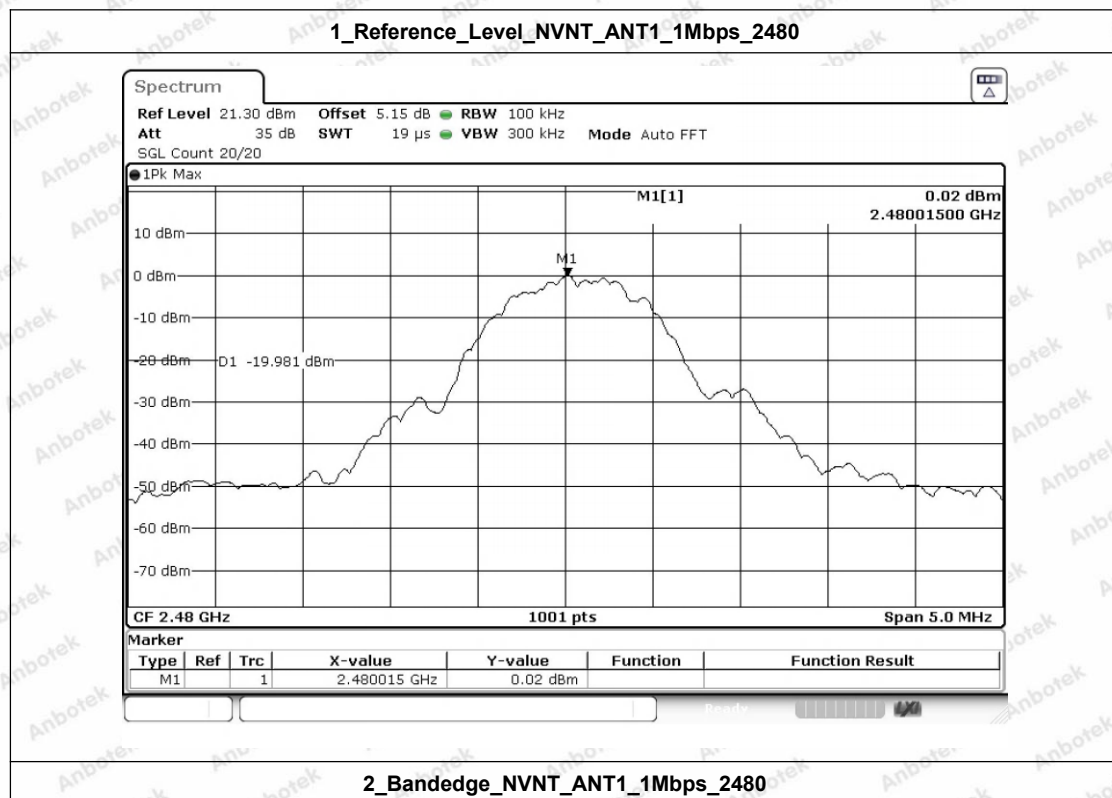
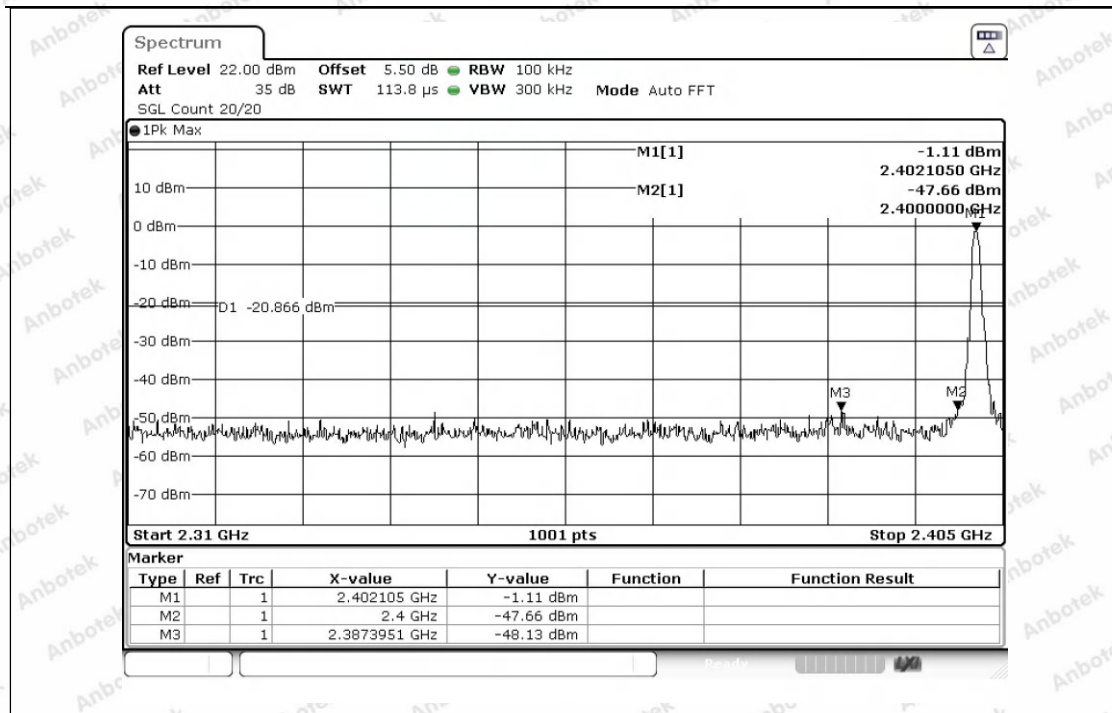
Appendix E: Band edge measurements

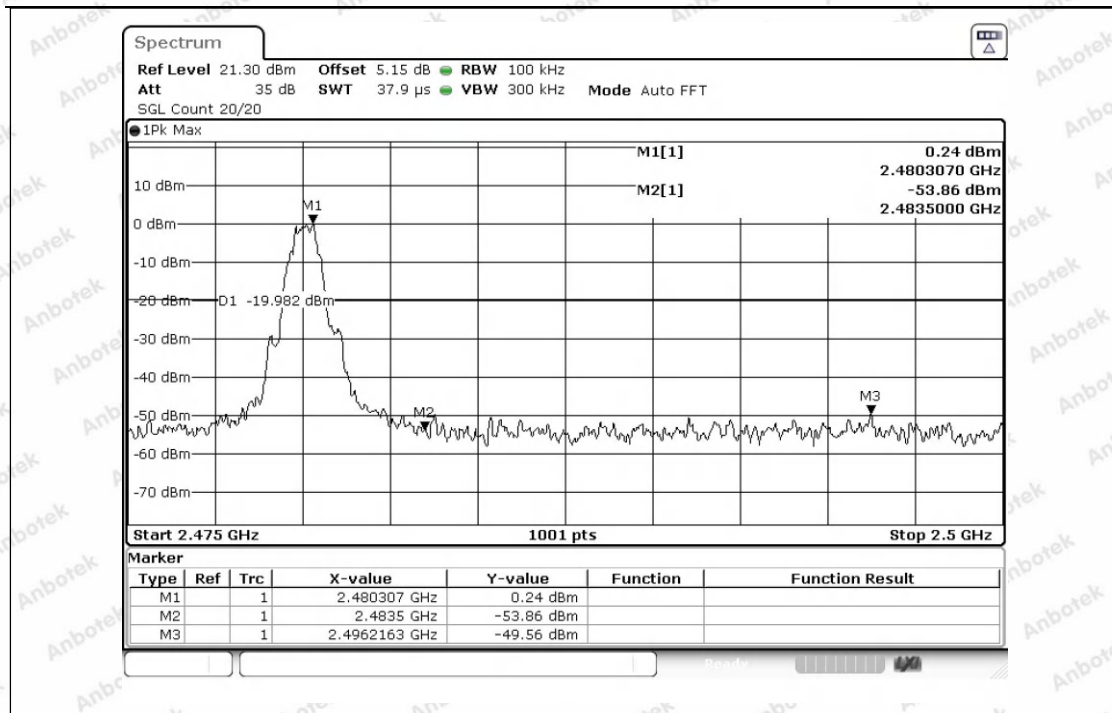
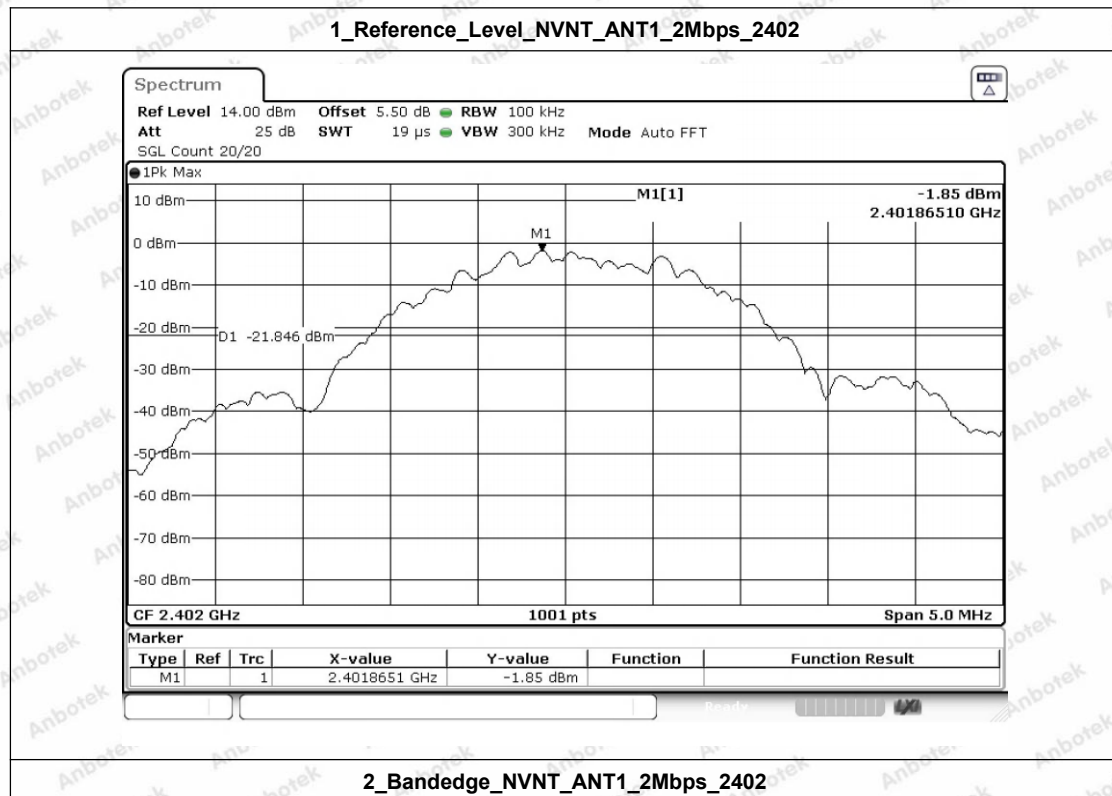
Test Result

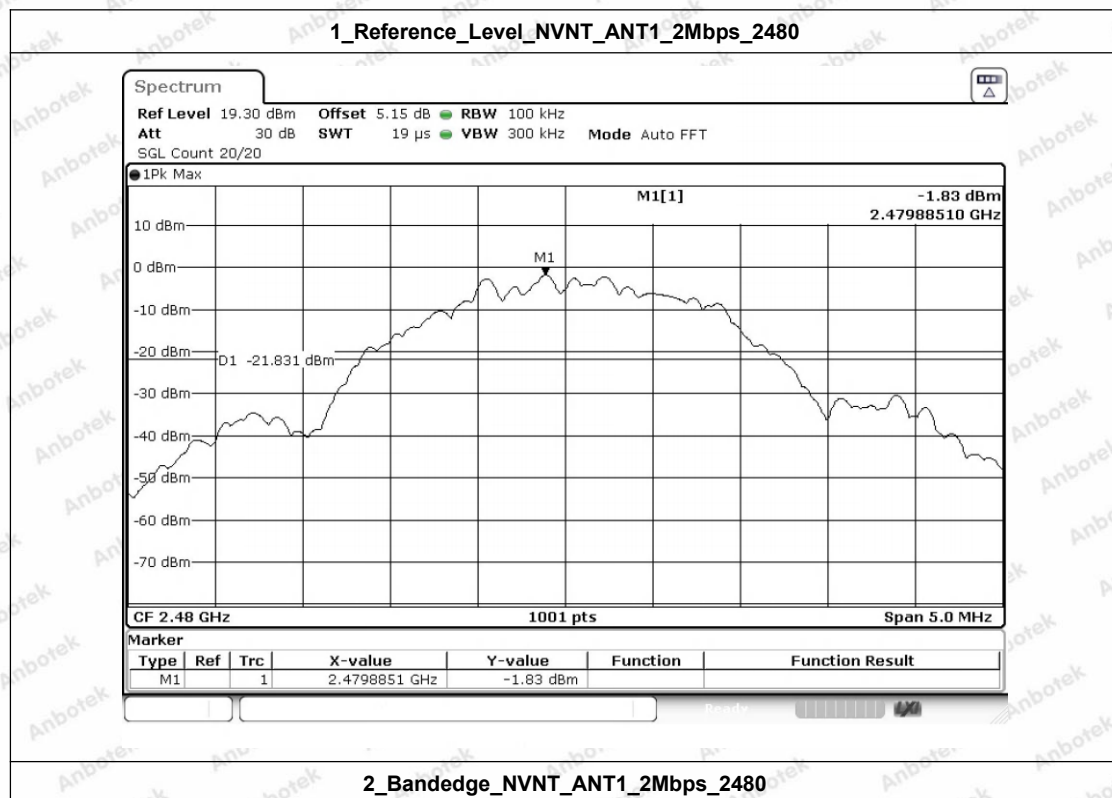
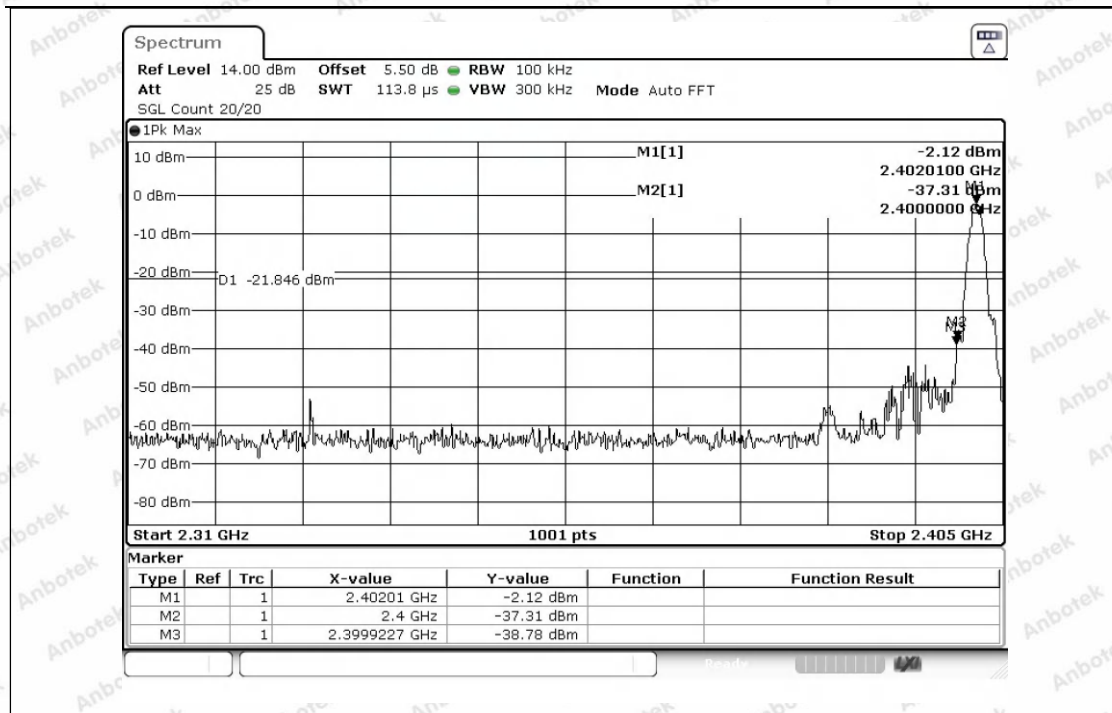
Condition	Antenna	Rate	TX_Frequency (MHz)	Max. Mark Frequency (MHz)	Spurious level(dBm)	limit(dBm)	Result
NVNT	ANT1	1Mbps	2402	2387.395	-48.132	-20.866	Pass
NVNT	ANT1	1Mbps	2480	2496.216	-49.560	-19.982	Pass
NVNT	ANT1	2Mbps	2402	2399.923	-38.777	-21.846	Pass
NVNT	ANT1	2Mbps	2480	2483.729	-53.542	-21.831	Pass

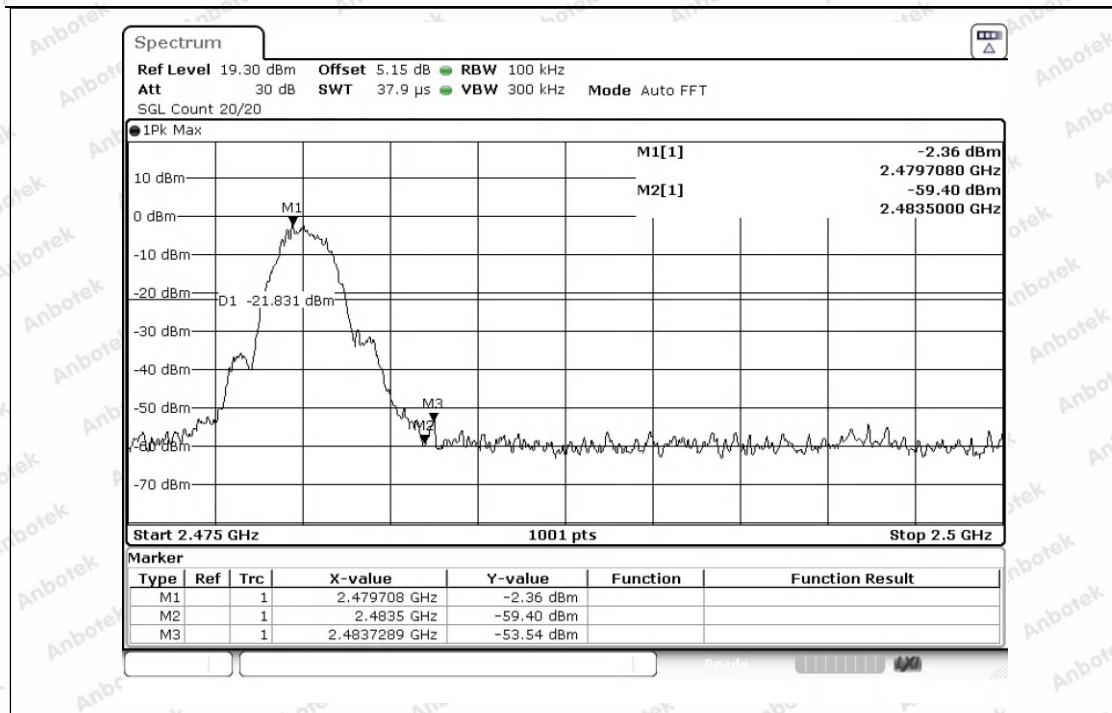
Test Graphs



**2_Bandedge_NVNT_ANT1_1Mbps_2480**

**1_Reference_Level_NVNT_ANT1_2Mbps_2402****2_Bandedge_NVNT_ANT1_2Mbps_2402**

**2_Bandedge_NVNT_ANT1_2Mbps_2480**

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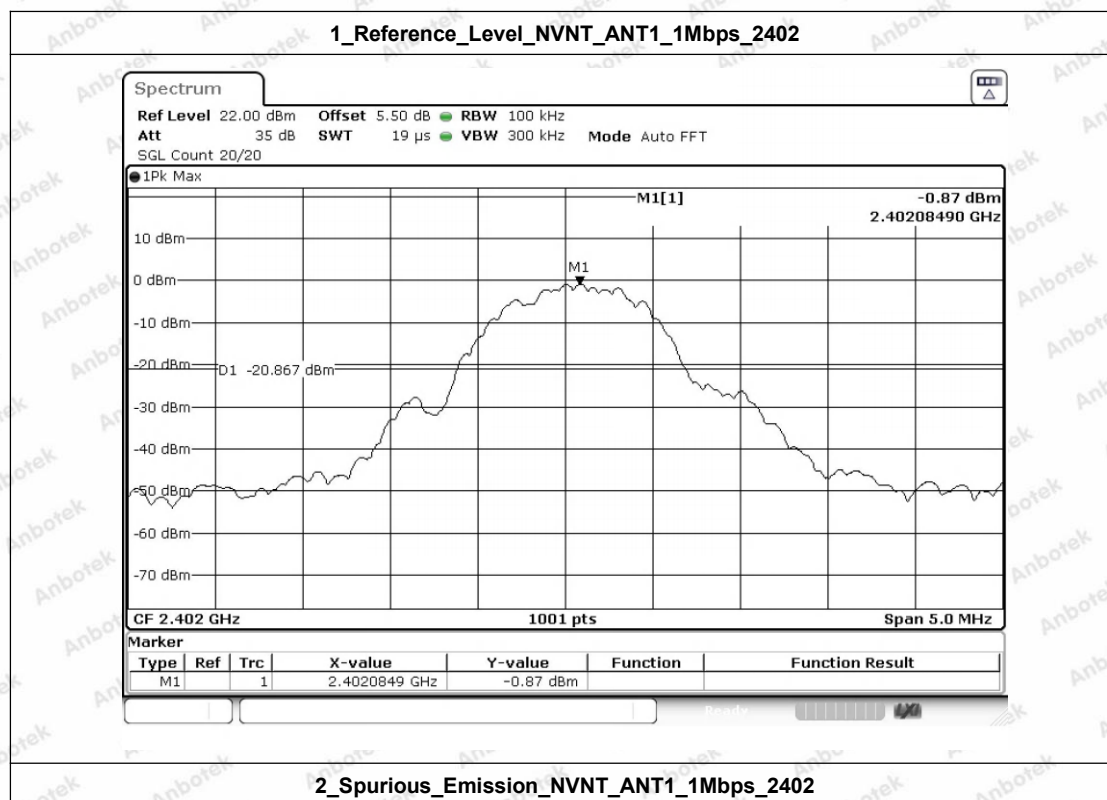


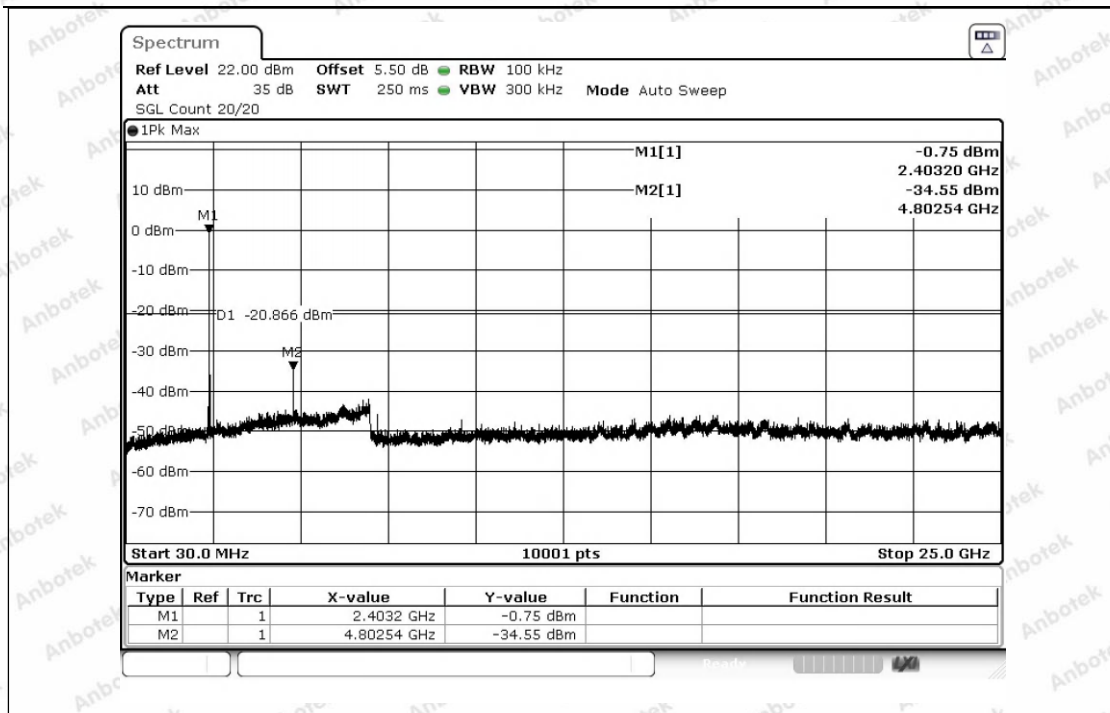
Appendix F: Conducted Spurious Emission

Test Result

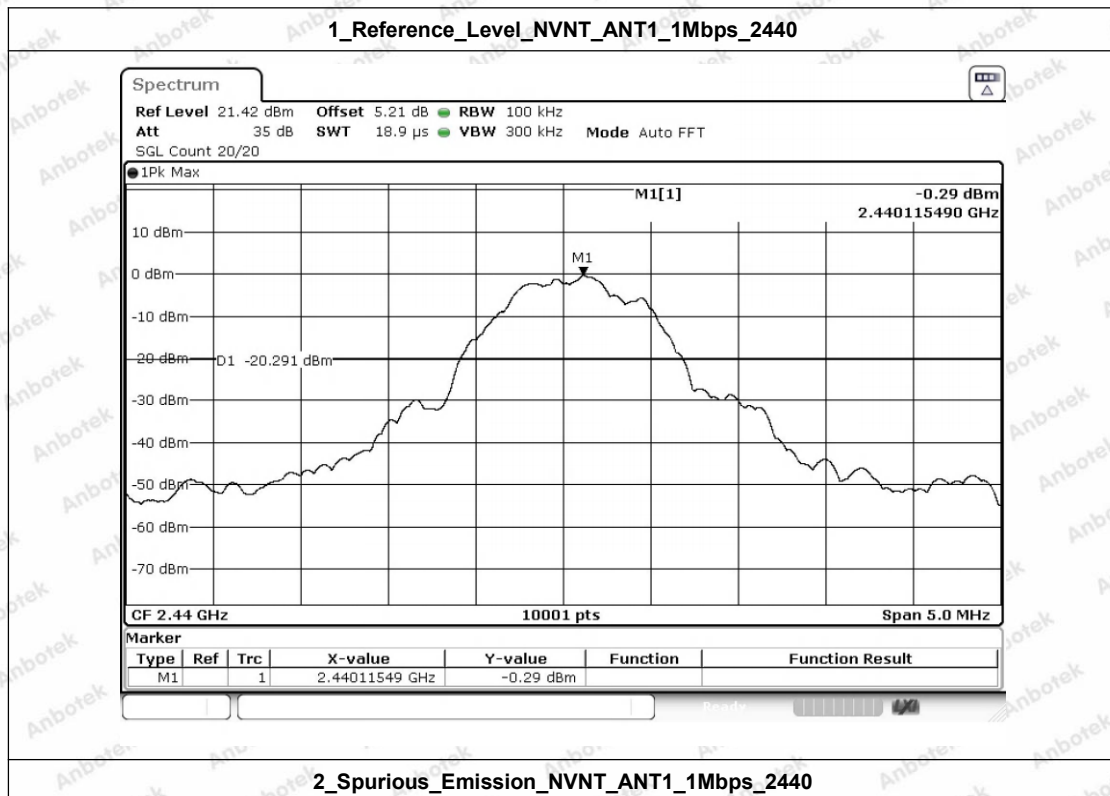
Condition	Antenna	Rate	TX_Frequency(MHz)	Spurious MAX.Value(dBm)	Limit	Result
NVNT	ANT1	1Mbps	2402	-34.550	-20.866	Pass
NVNT	ANT1	1Mbps	2440	-34.287	-20.290	Pass
NVNT	ANT1	1Mbps	2480	-32.358	-19.982	Pass
NVNT	ANT1	2Mbps	2402	-35.679	-21.846	Pass
NVNT	ANT1	2Mbps	2440	-34.976	-21.409	Pass
NVNT	ANT1	2Mbps	2480	-32.377	-21.831	Pass

Test Graphs



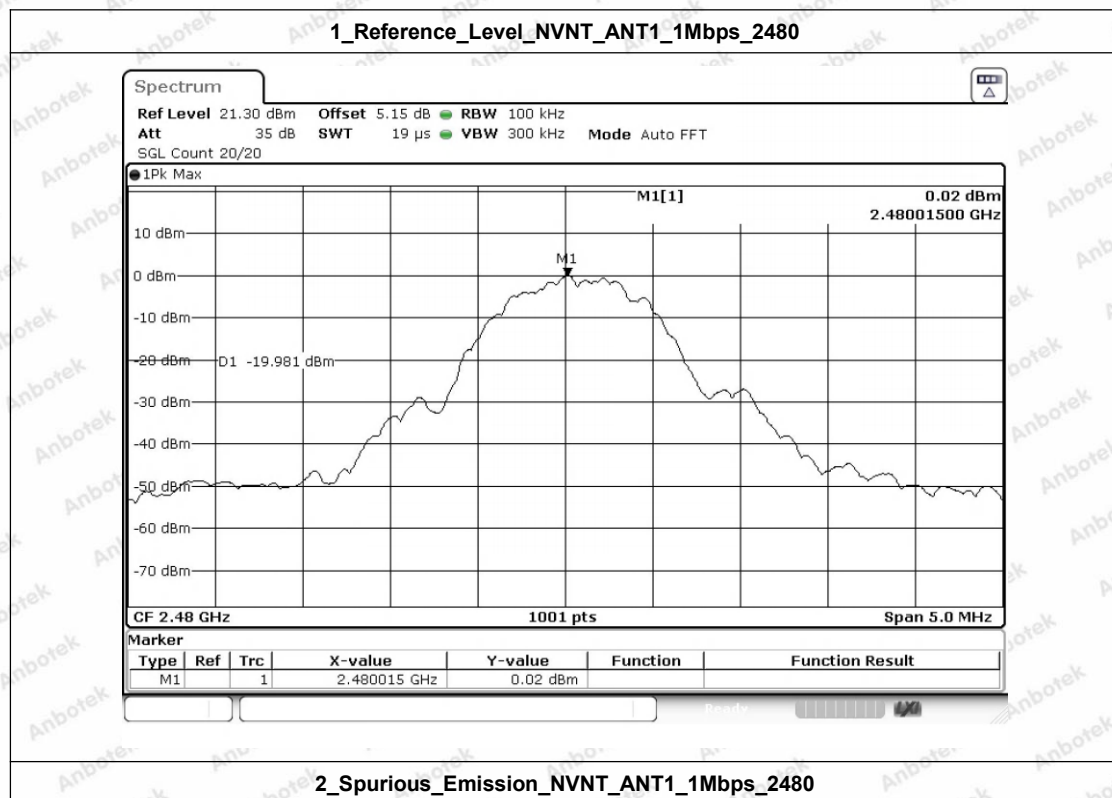
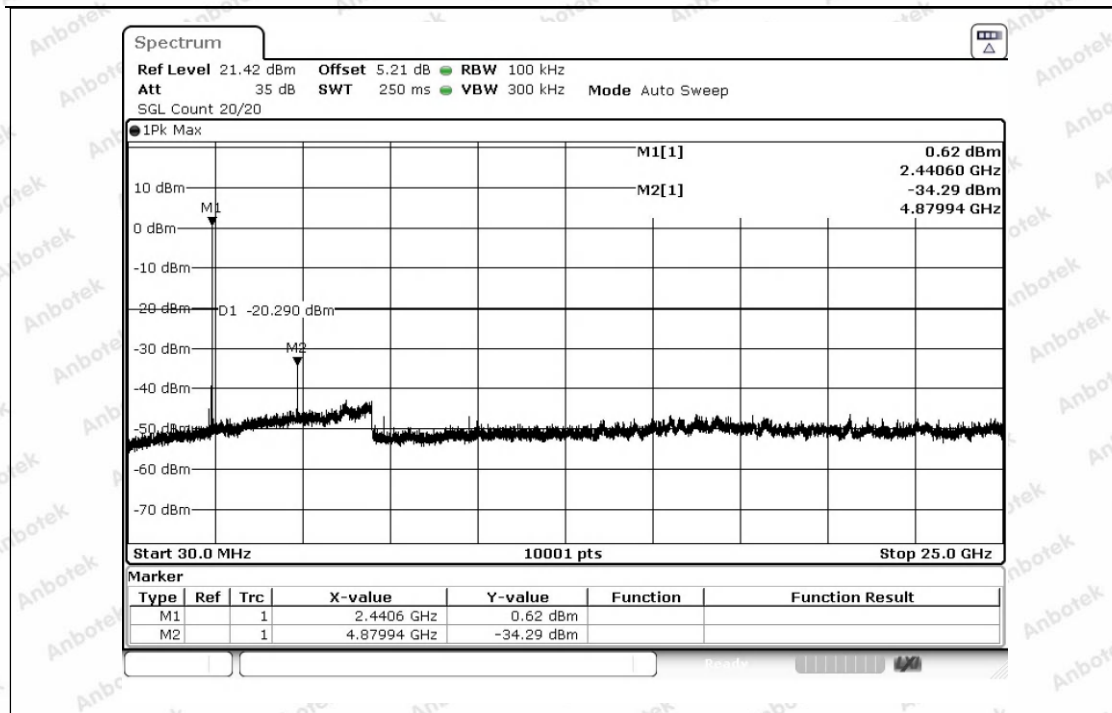


1_Reference_Level_NVNT_ANT1_1Mbps_2440



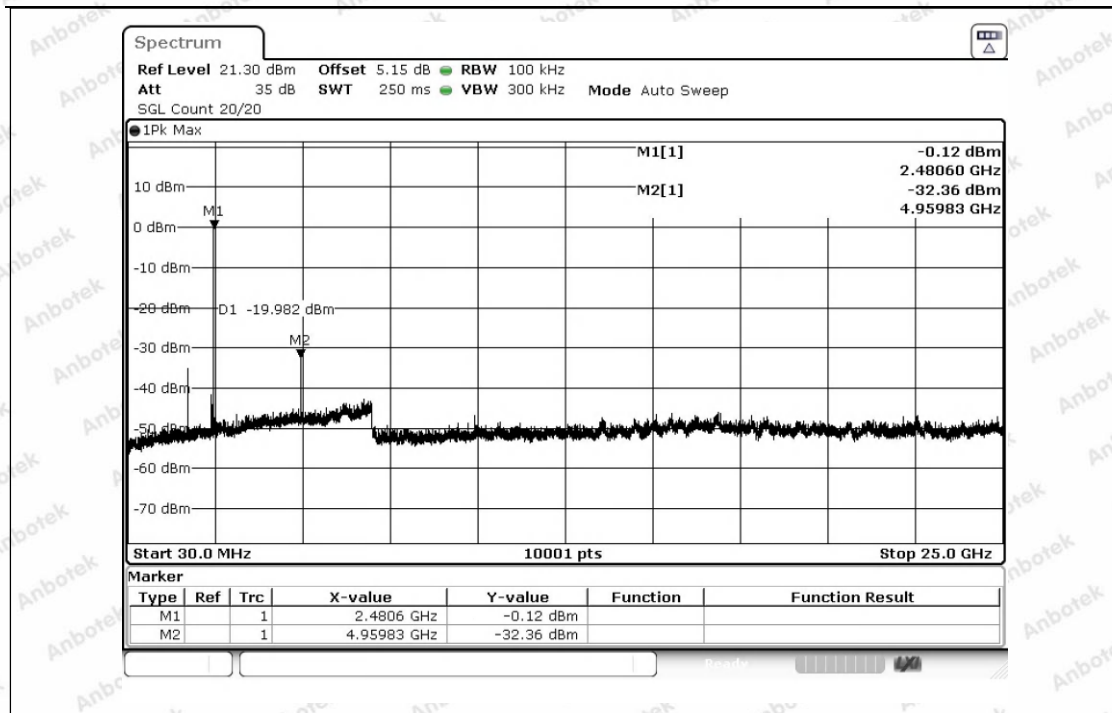
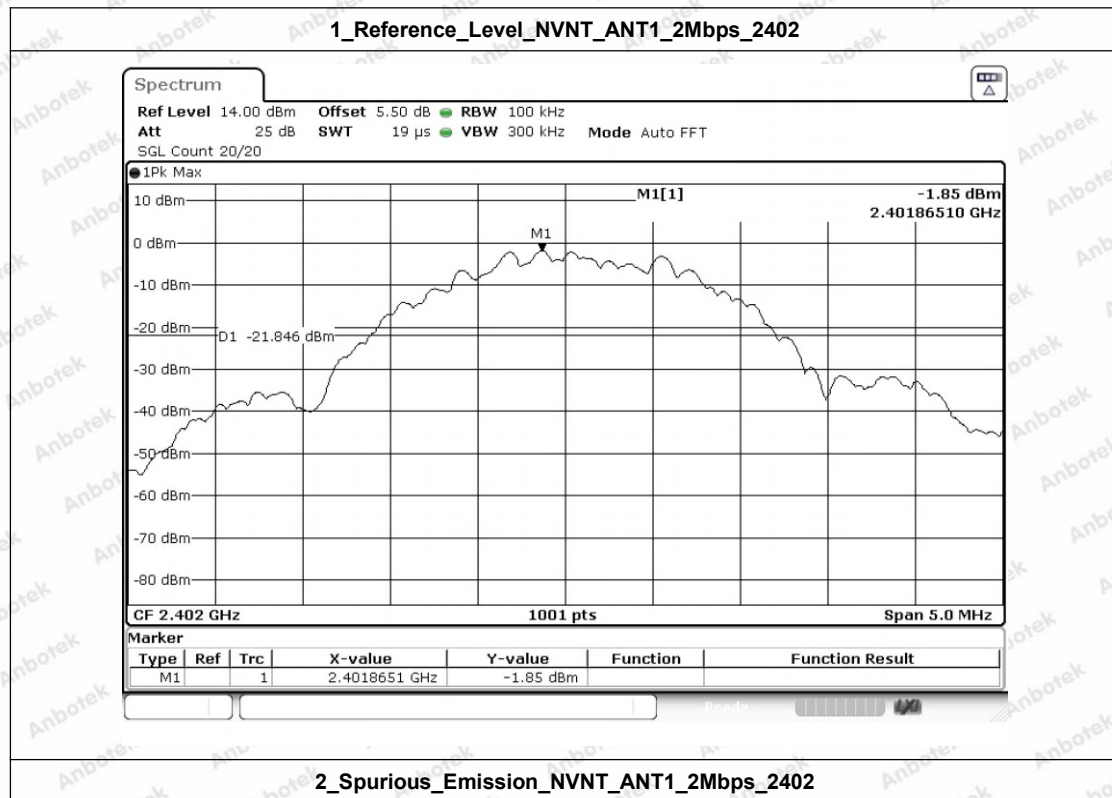
2_Spurious_Emission_NVNT_ANT1_1Mbps_2440

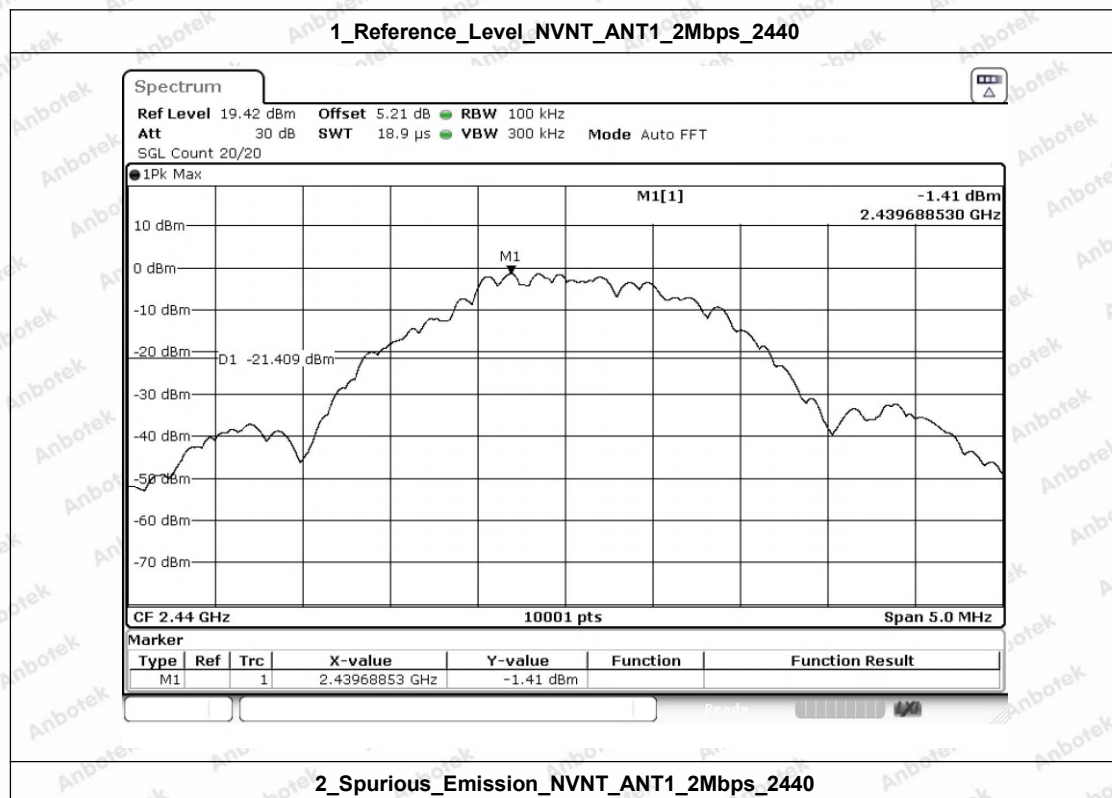
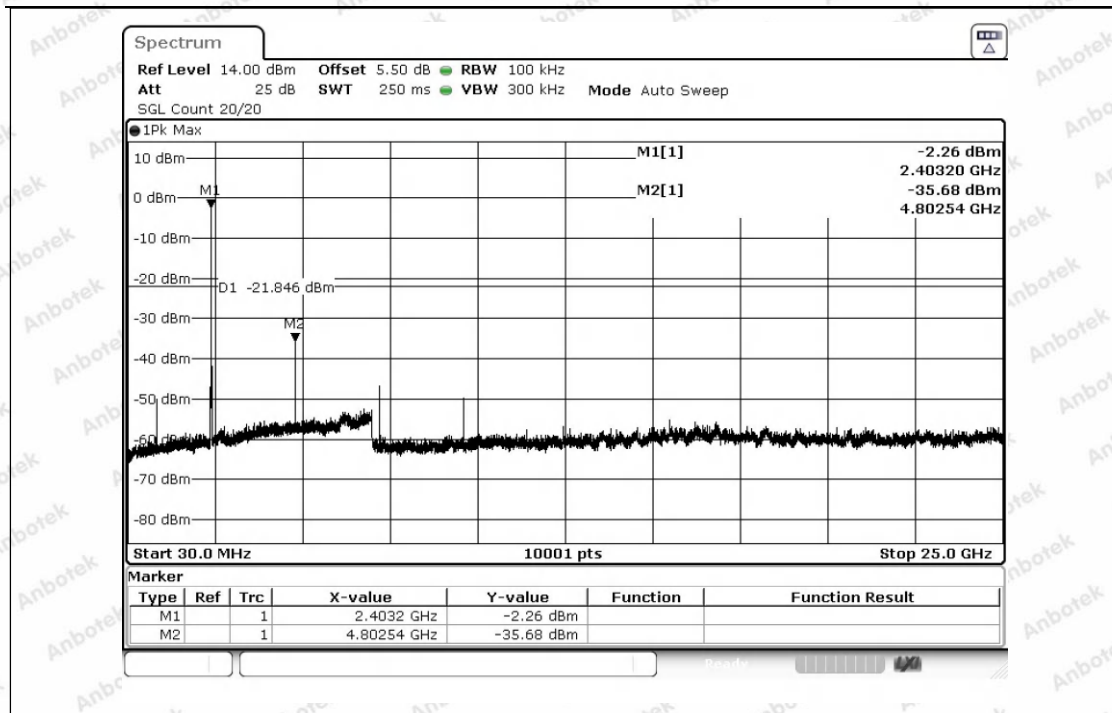


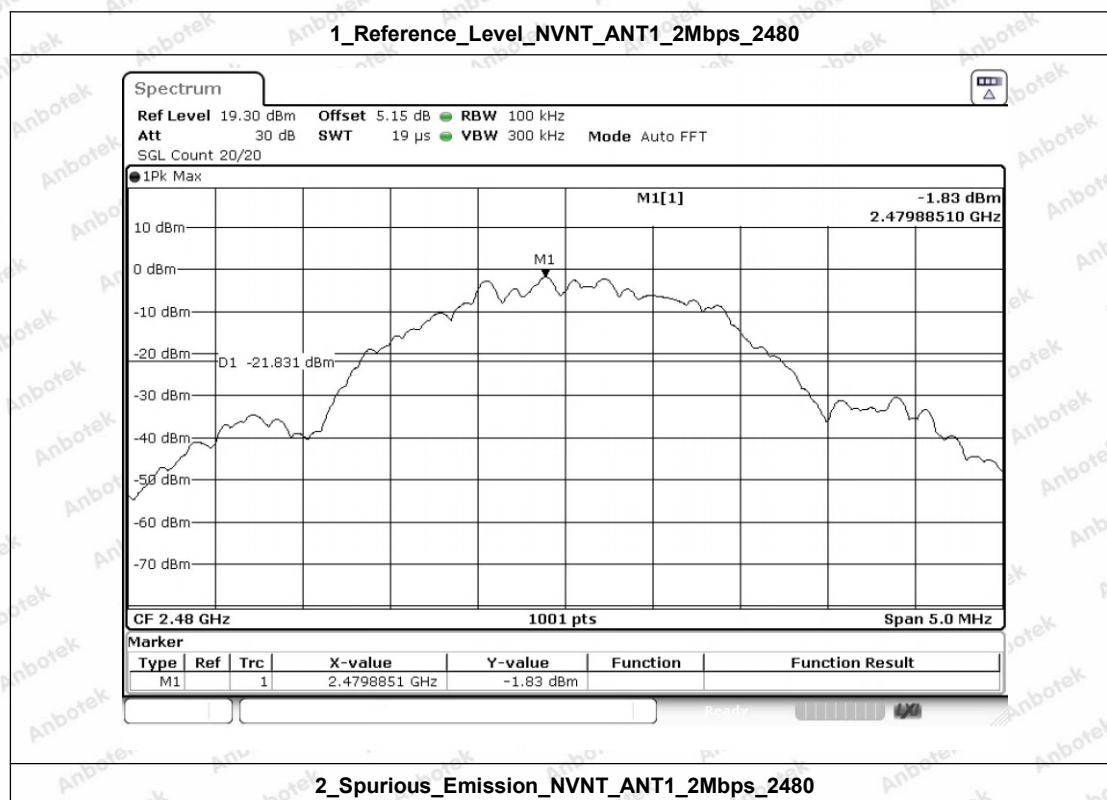
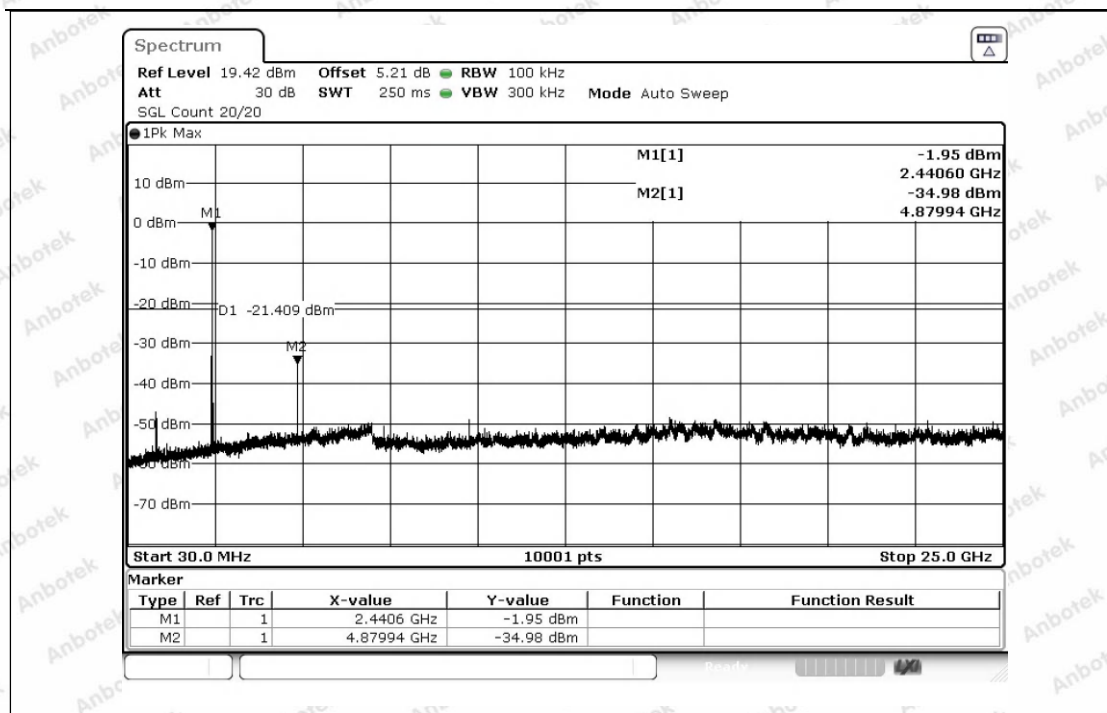


2_Spurious_Emission_NVNT_ANT1_1Mbps_2480



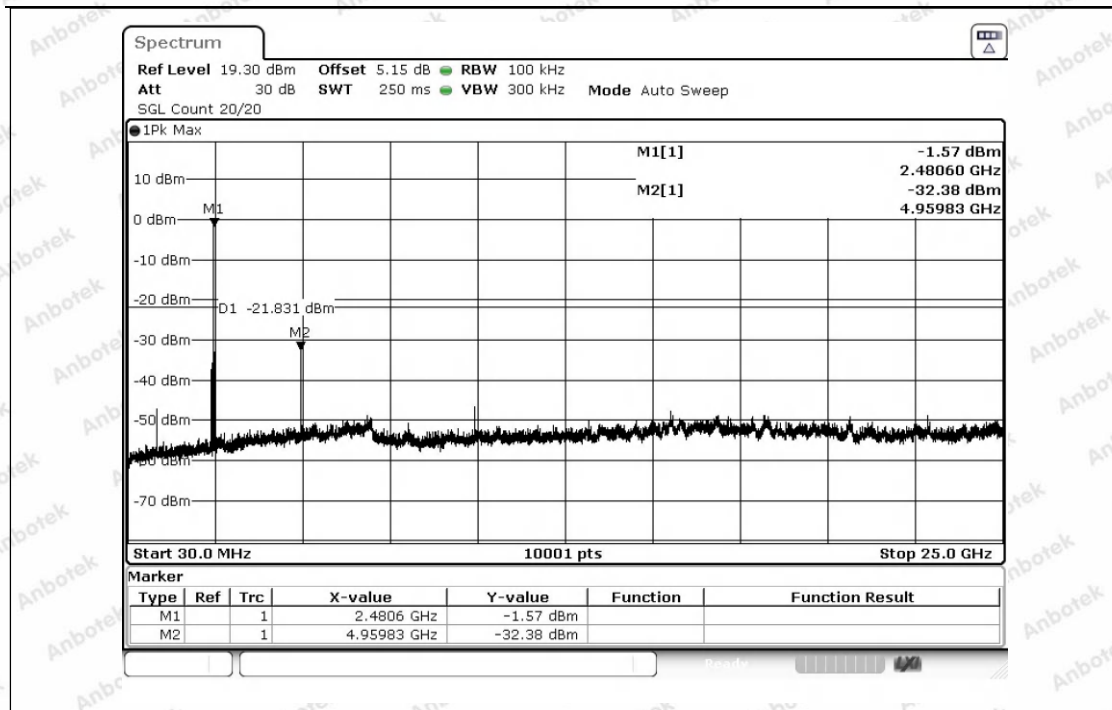
**1_Reference_Level_NVNT_ANT1_2Mbps_2402****2_Spurious_Emission_NVNT_ANT1_2Mbps_2402**

**2_Spurious_Emission_NVNT_ANT1_2Mbps_2440**



2_Spurious_Emission_NVNT_ANT1_2Mbps_2480



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Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Ant1	2402	1.14	2.51	45.42	3.43
BLE_1M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_1M	Ant1	2480	2.13	2.50	85.20	0.70
BLE_2M	Ant1	2402	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2440	2.13	2.51	84.86	0.71
BLE_2M	Ant1	2480	2.13	2.50	85.20	0.70

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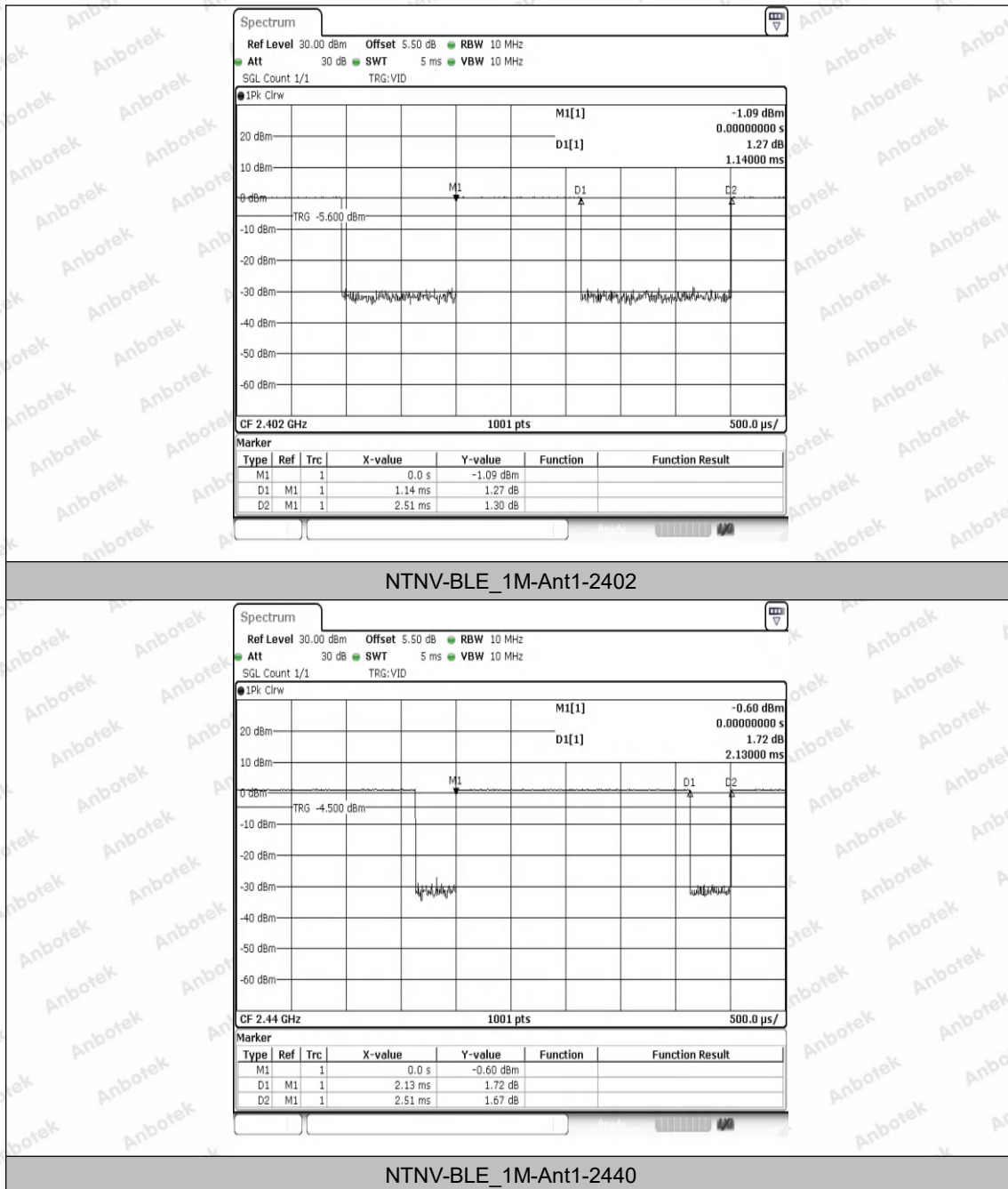
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Test Graphs



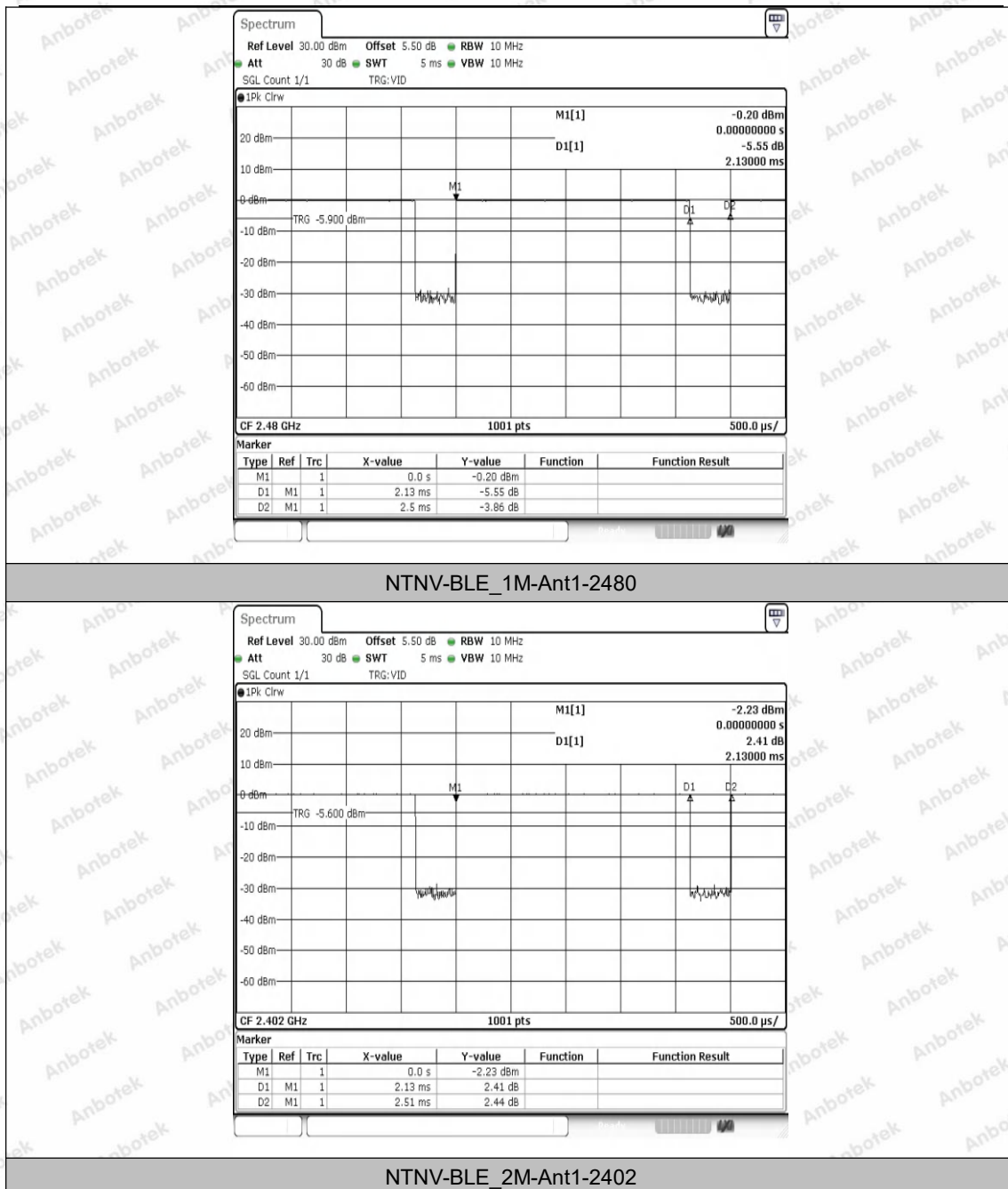
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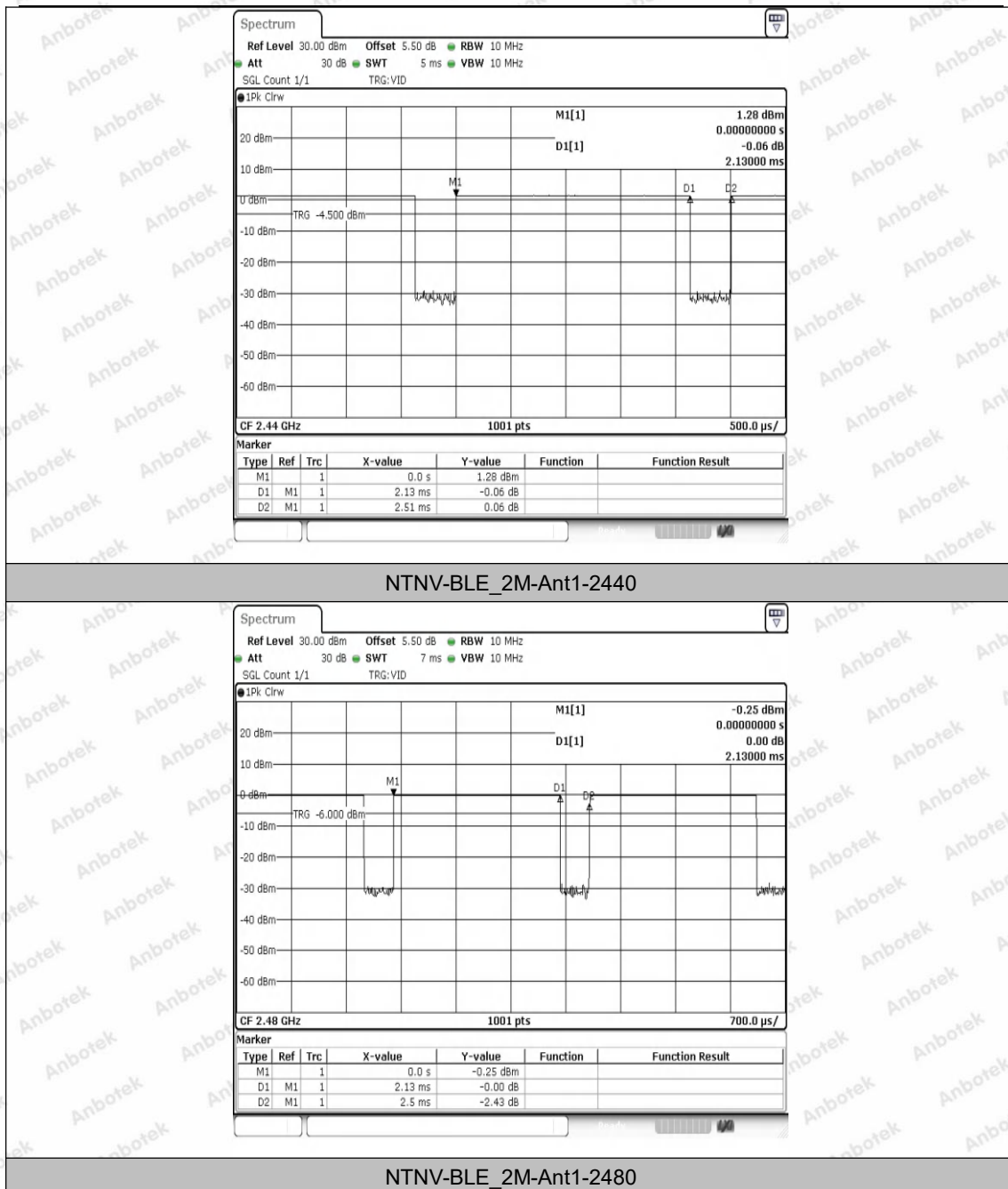
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