

Appendix: Bluetooth LE

Contents

Duty Cycle 3

Maximum Peak Conducted Output Power 7

-6dB Bandwidth 11

Occupied Channel Bandwidth 15

Maximum Power Spectral Density Level 19

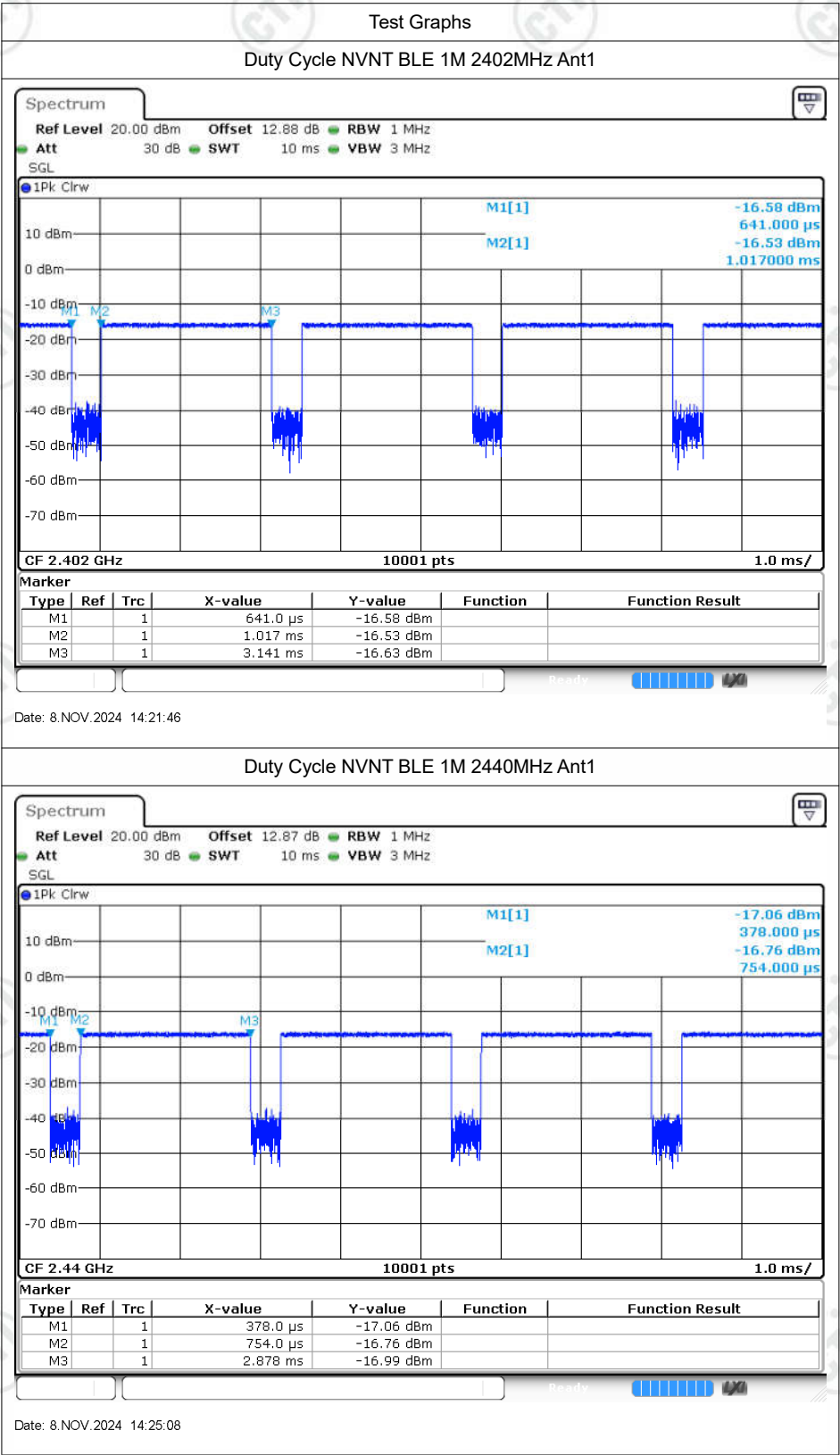
Band Edge 23

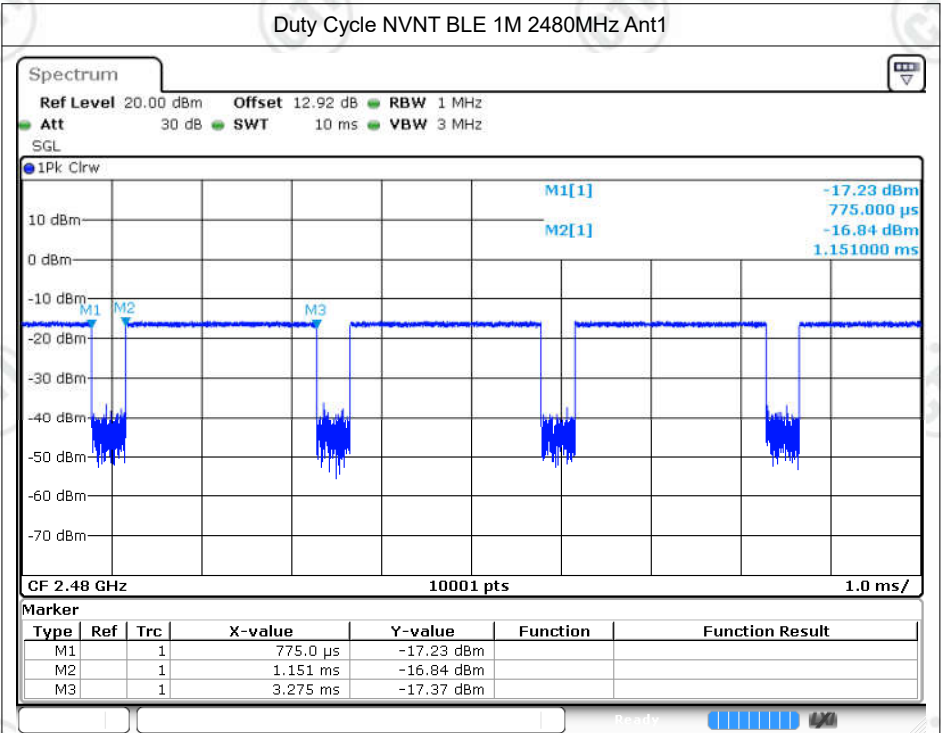
Conducted RF Spurious Emission 28

Duty Cycle

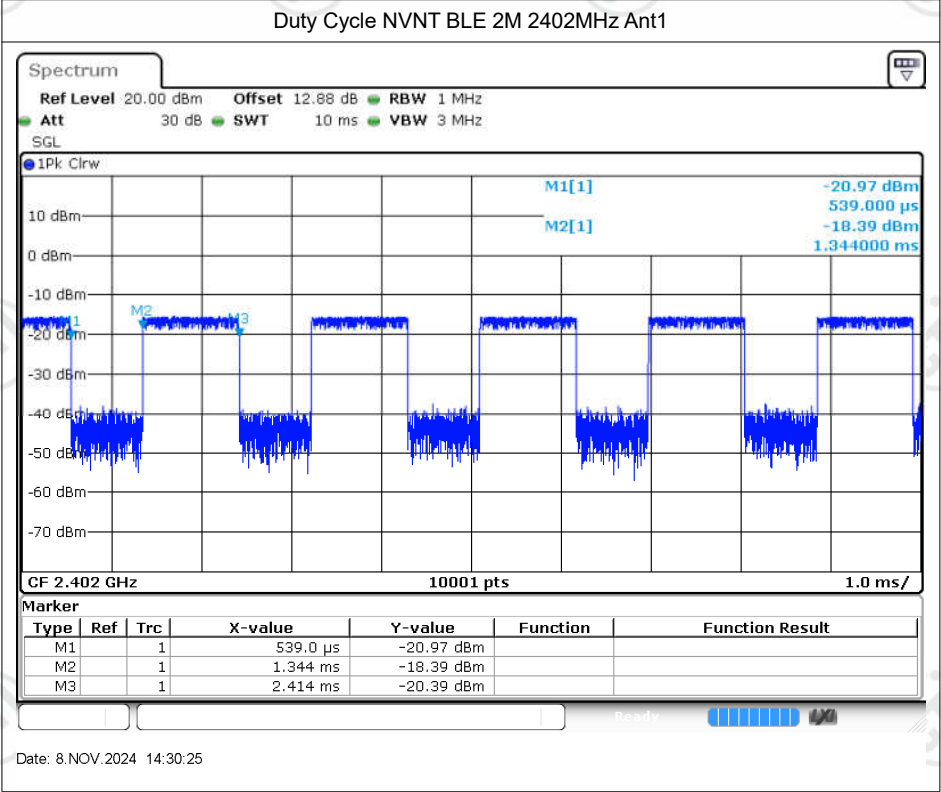
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	84.96	0.71	0.47
NVNT	BLE 1M	2440	Ant1	84.96	0.71	0.47
NVNT	BLE 1M	2480	Ant1	84.96	0.71	0.47
NVNT	BLE 2M	2402	Ant1	57.07	2.44	0.93
NVNT	BLE 2M	2440	Ant1	57.07	2.44	0.93
NVNT	BLE 2M	2480	Ant1	57.12	2.43	0.93

Note:Duty Cycle Correction Factor (dB)=-10*Ig(Duty Cycle);

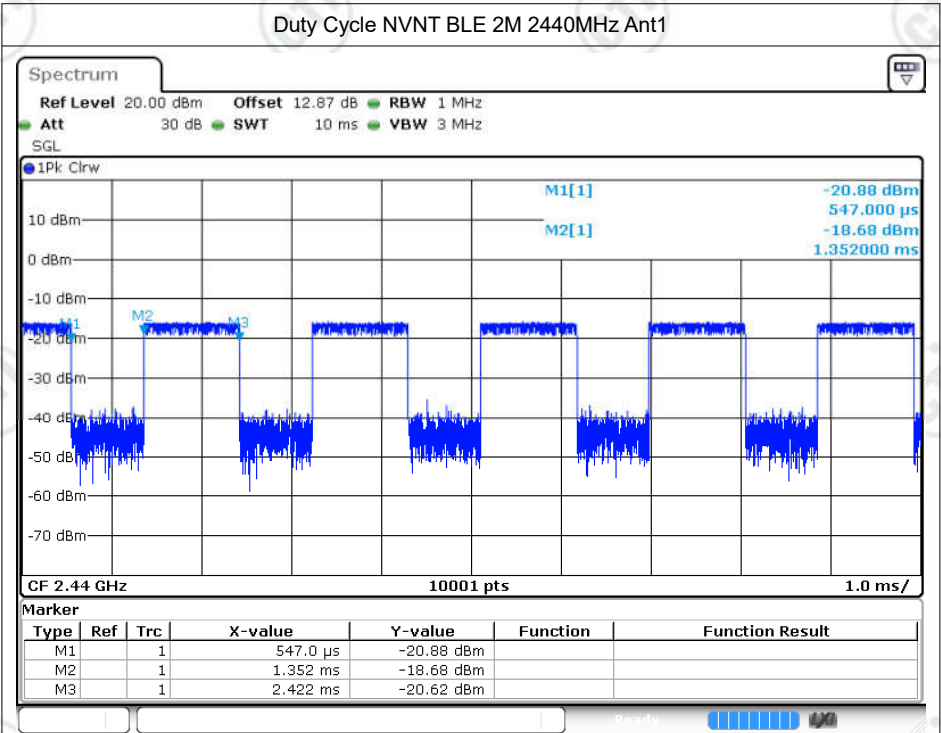




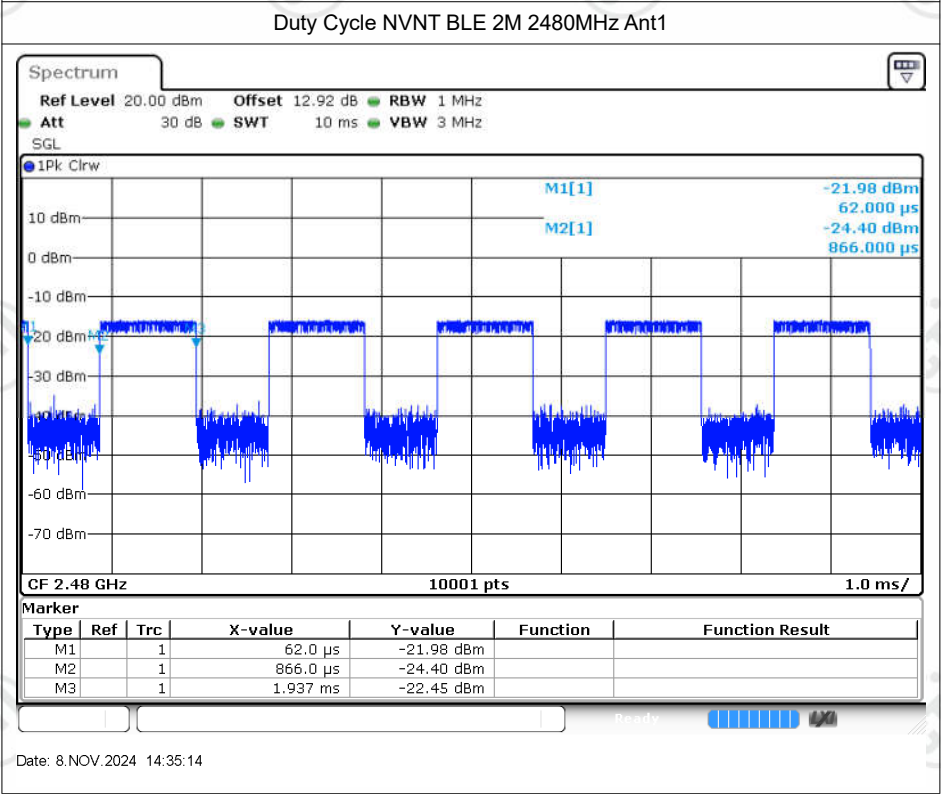
Date: 8.NOV.2024 14:27:31



Date: 8.NOV.2024 14:30:25



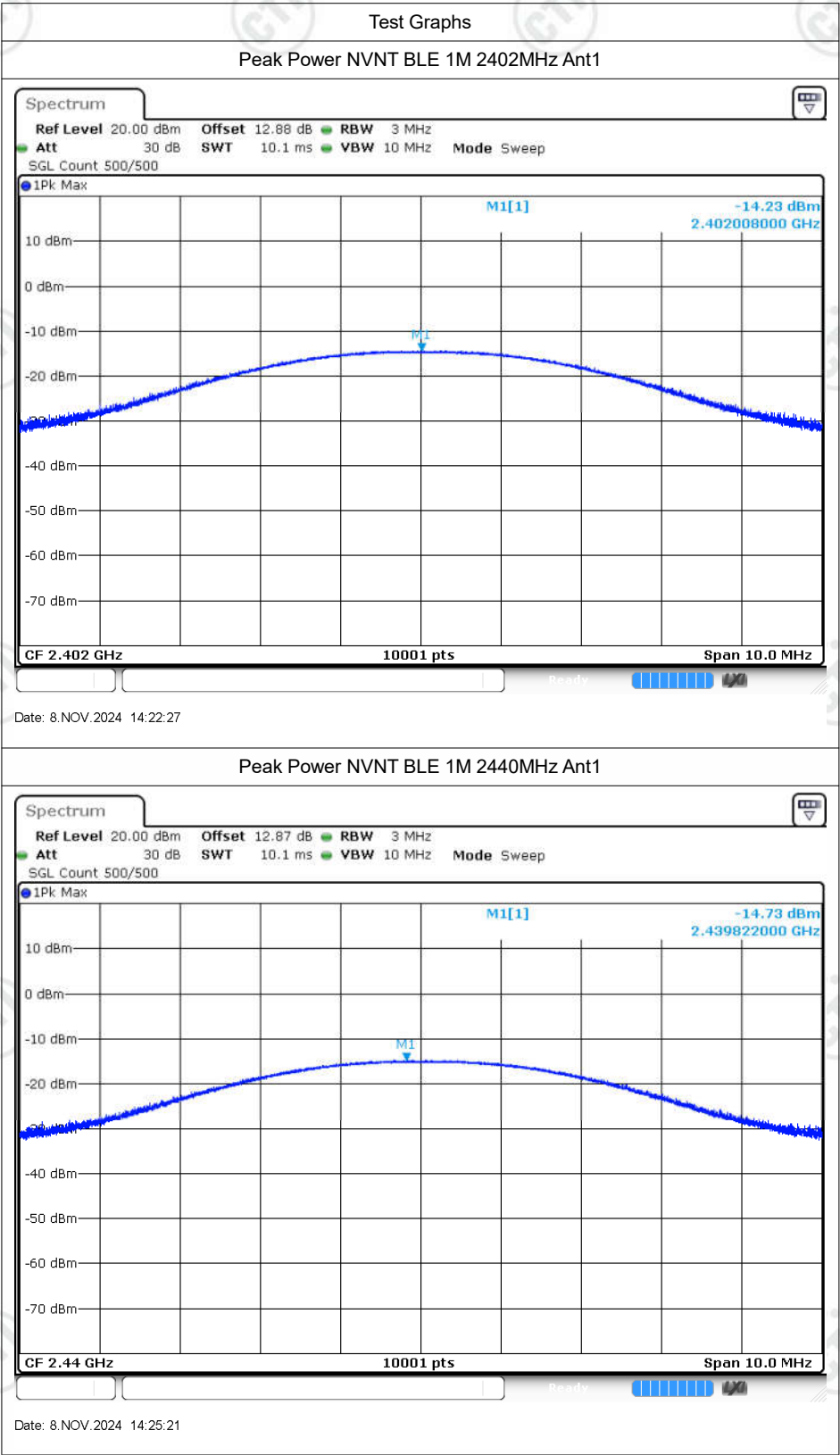
Date: 8.NOV.2024 14:33:22

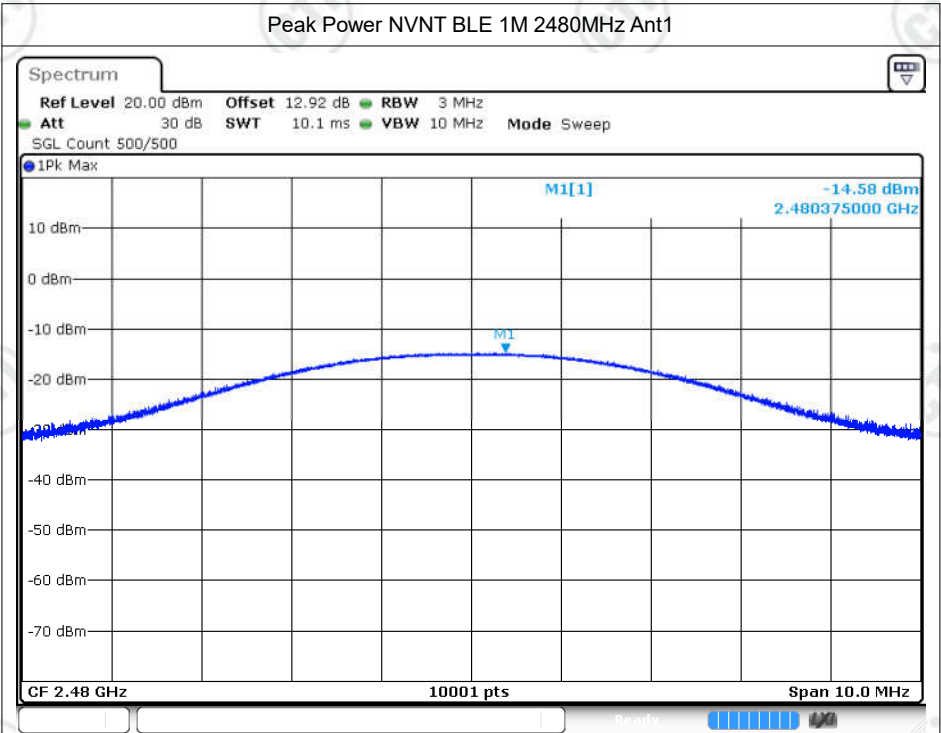


Date: 8.NOV.2024 14:35:14

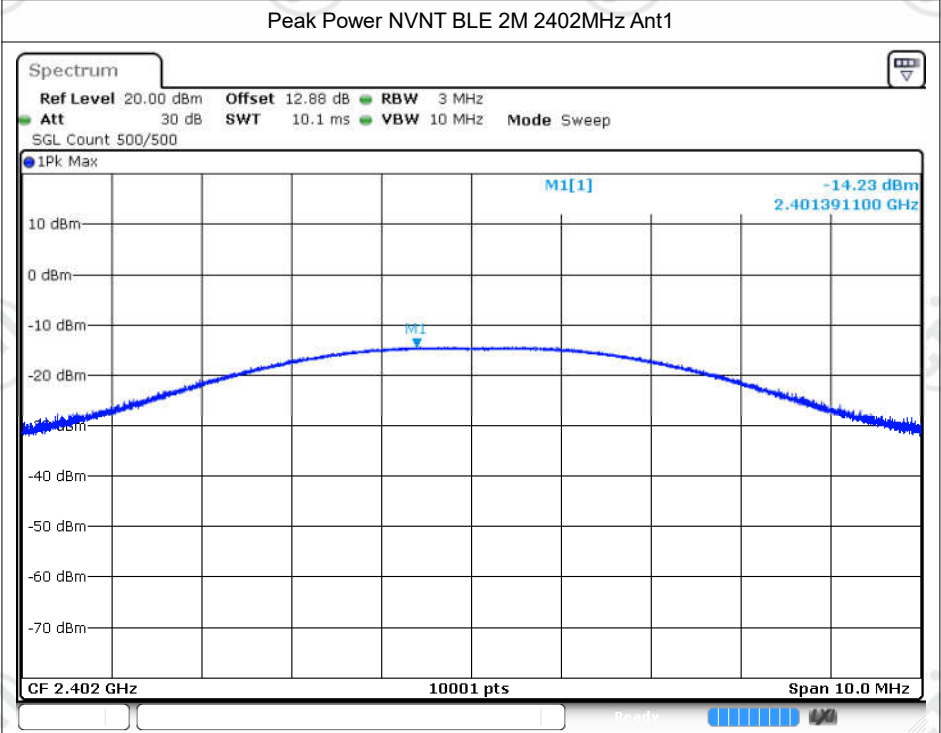
Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-14.23	30	Pass
NVNT	BLE 1M	2440	Ant1	-14.73	30	Pass
NVNT	BLE 1M	2480	Ant1	-14.58	30	Pass
NVNT	BLE 2M	2402	Ant1	-14.23	30	Pass
NVNT	BLE 2M	2440	Ant1	-14.71	30	Pass
NVNT	BLE 2M	2480	Ant1	-14.64	30	Pass

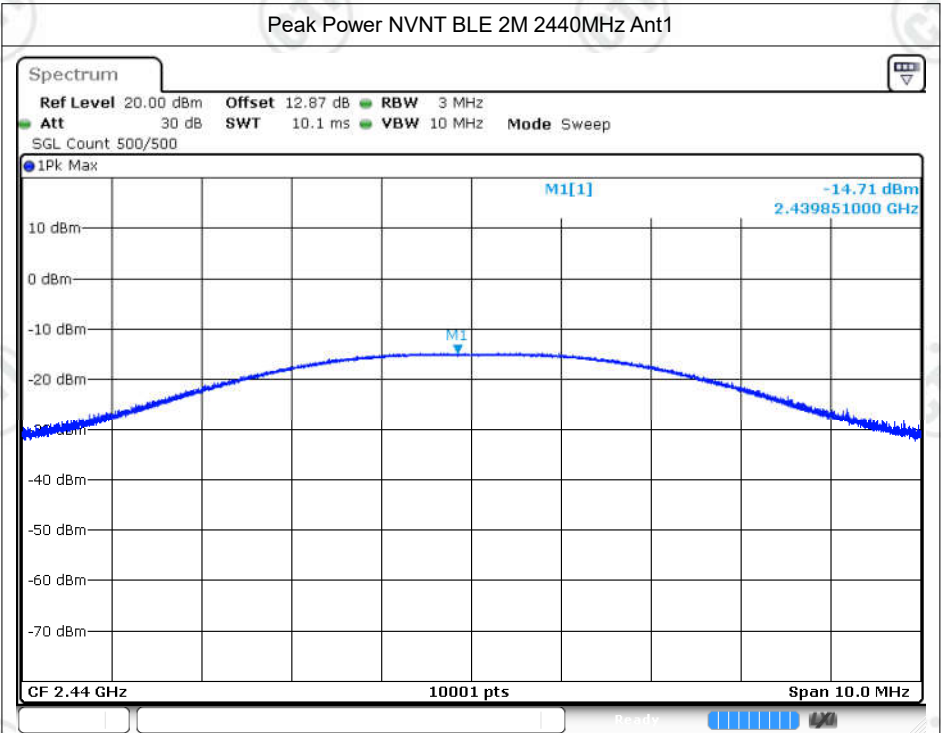




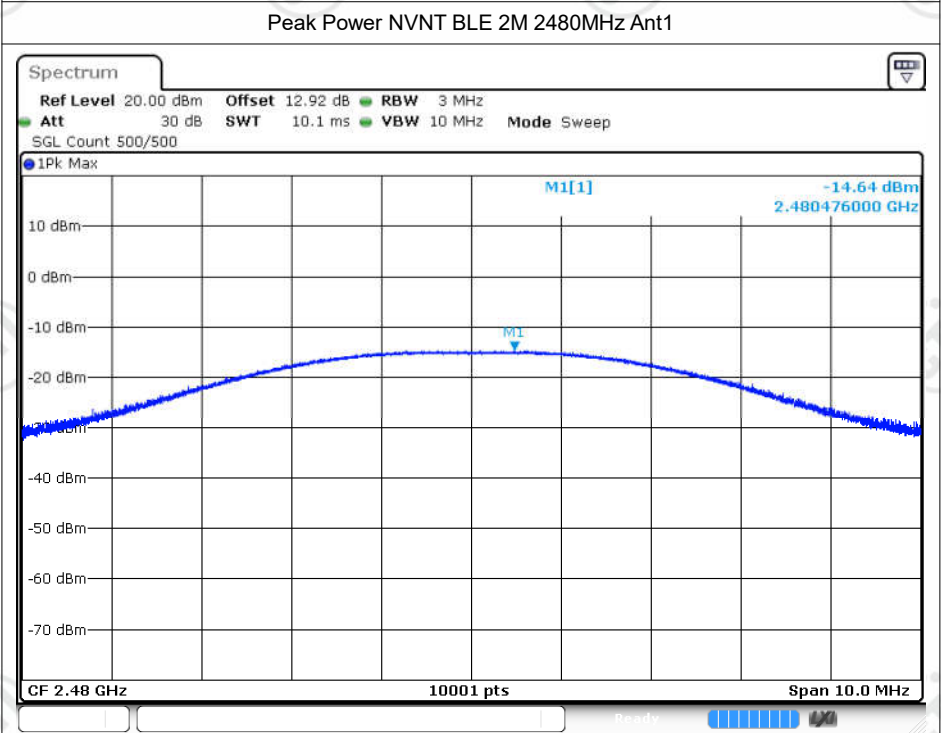
Date: 8.NOV.2024 14:27:42



Date: 8.NOV.2024 14:30:40



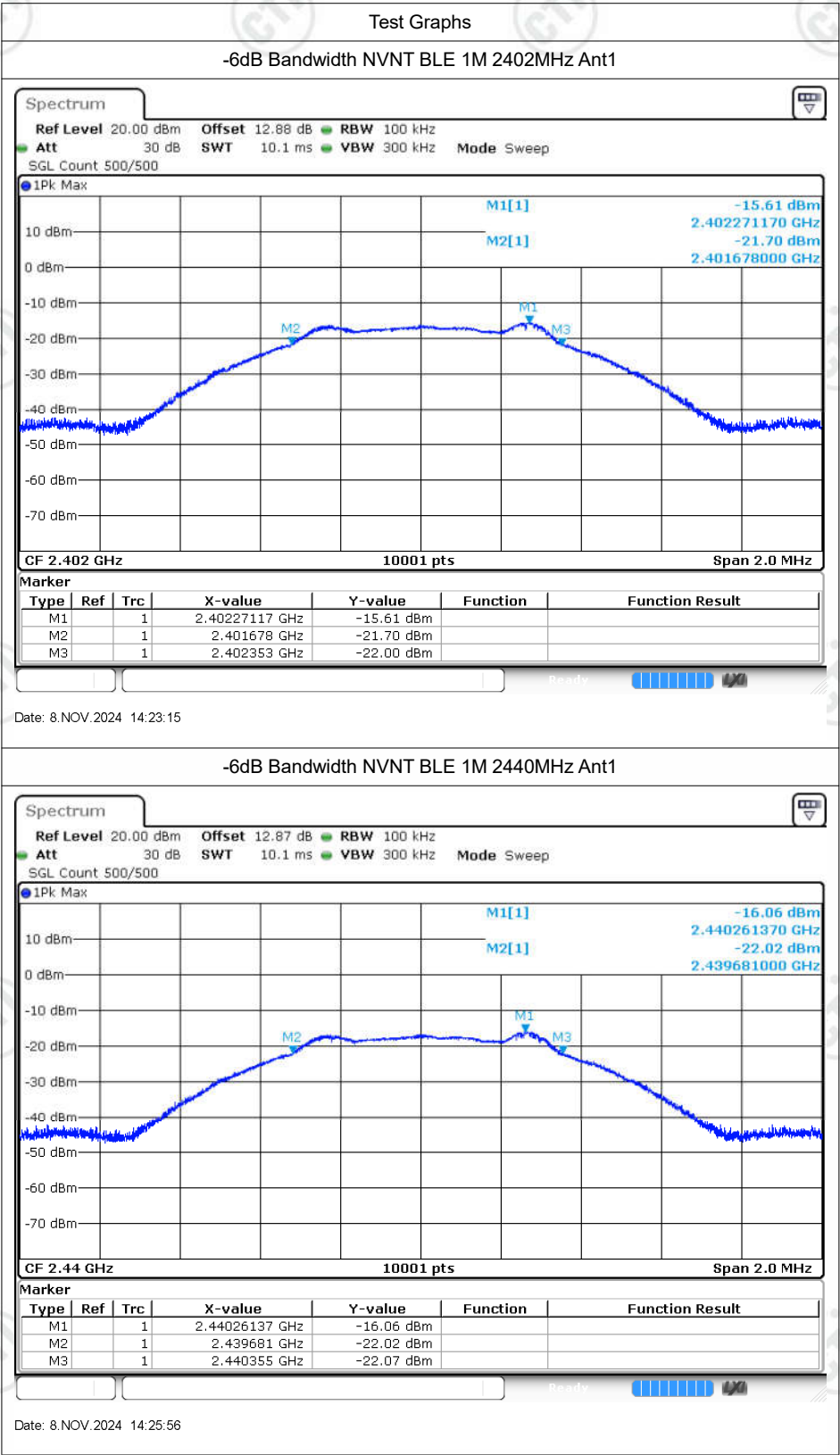
Date: 8.NOV.2024 14:33:34

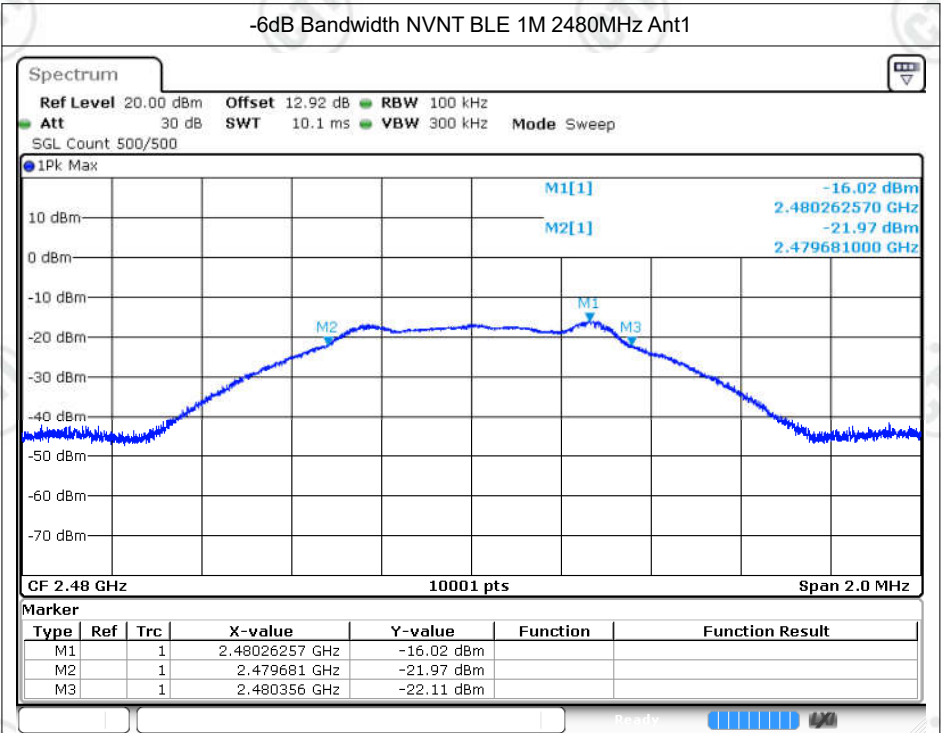


Date: 8.NOV.2024 14:35:28

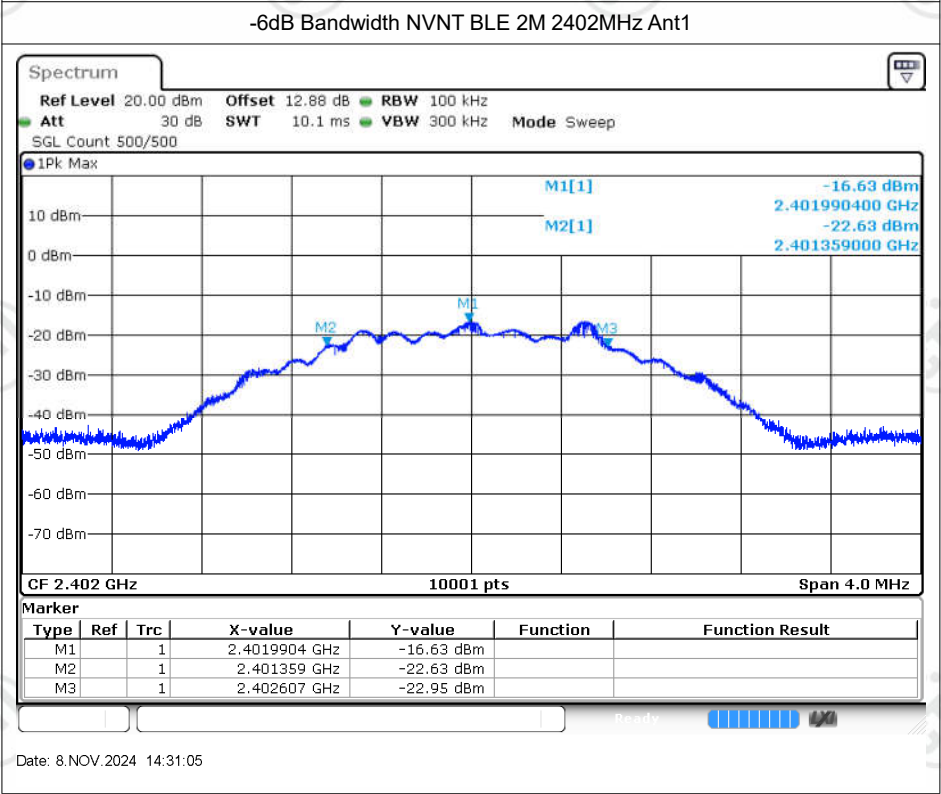
-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.675	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.674	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.675	0.5	Pass
NVNT	BLE 2M	2402	Ant1	1.248	0.5	Pass
NVNT	BLE 2M	2440	Ant1	1.242	0.5	Pass
NVNT	BLE 2M	2480	Ant1	1.243	0.5	Pass

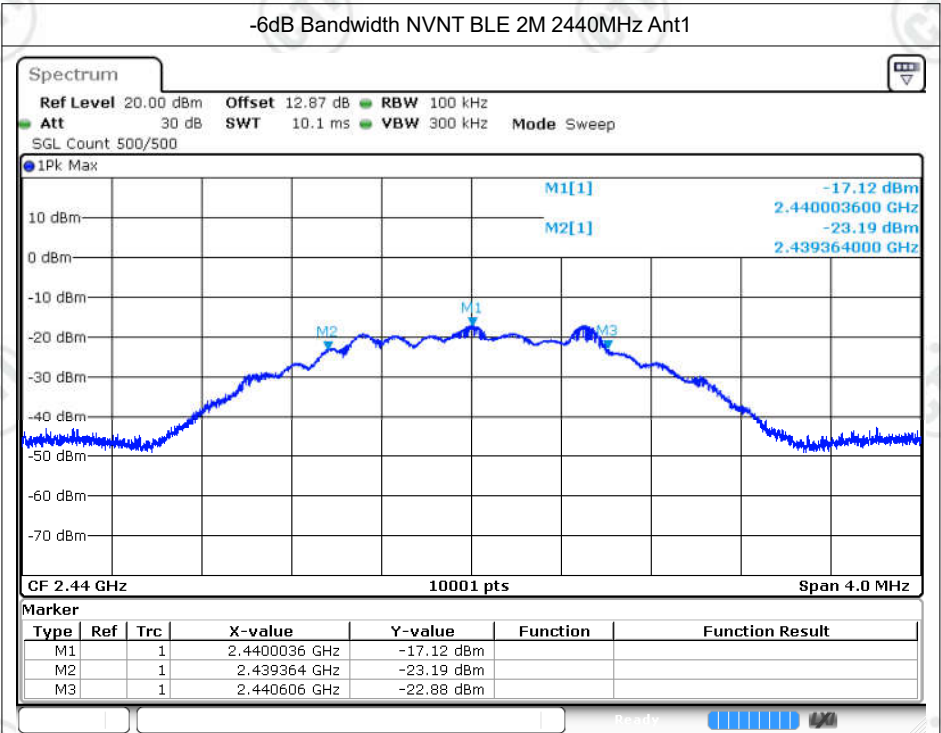




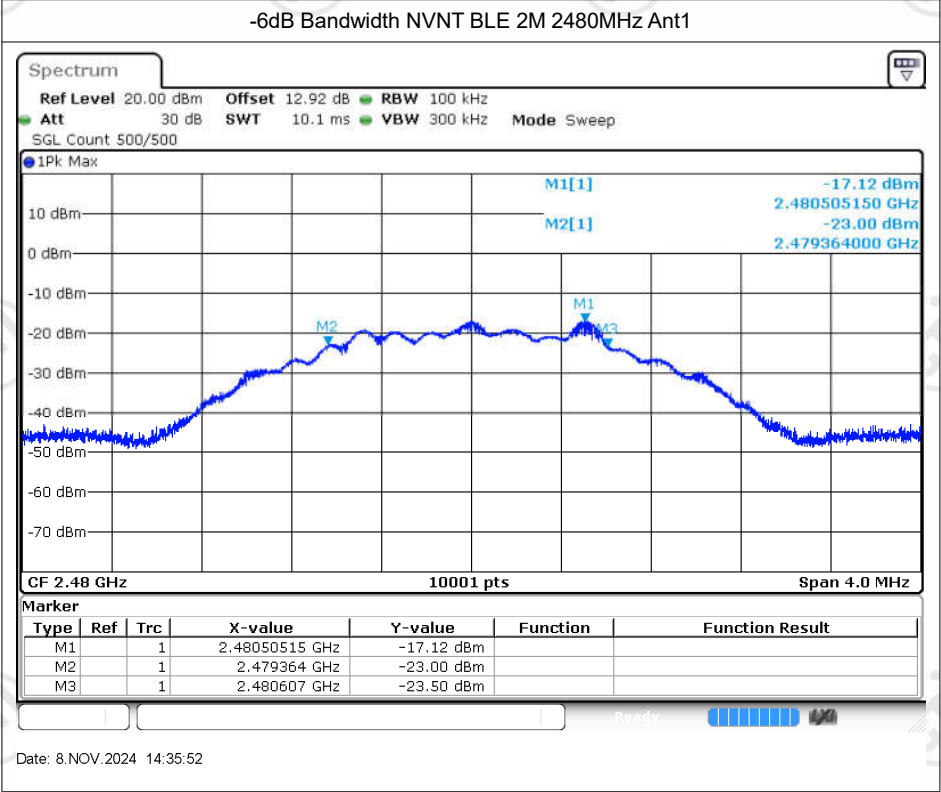
Date: 8.NOV.2024 14:28:07



Date: 8.NOV.2024 14:31:05



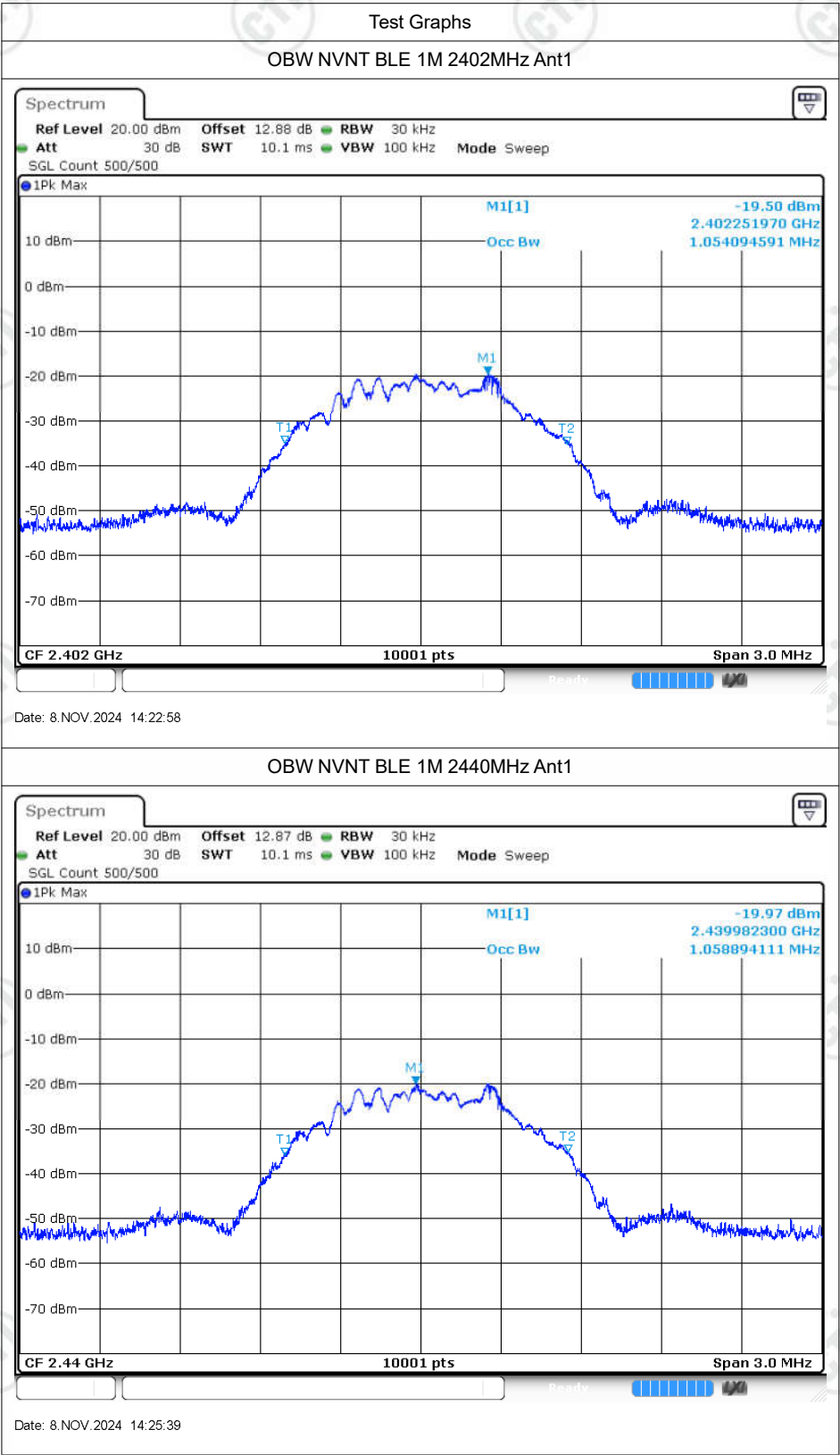
Date: 8.NOV.2024 14:34:00

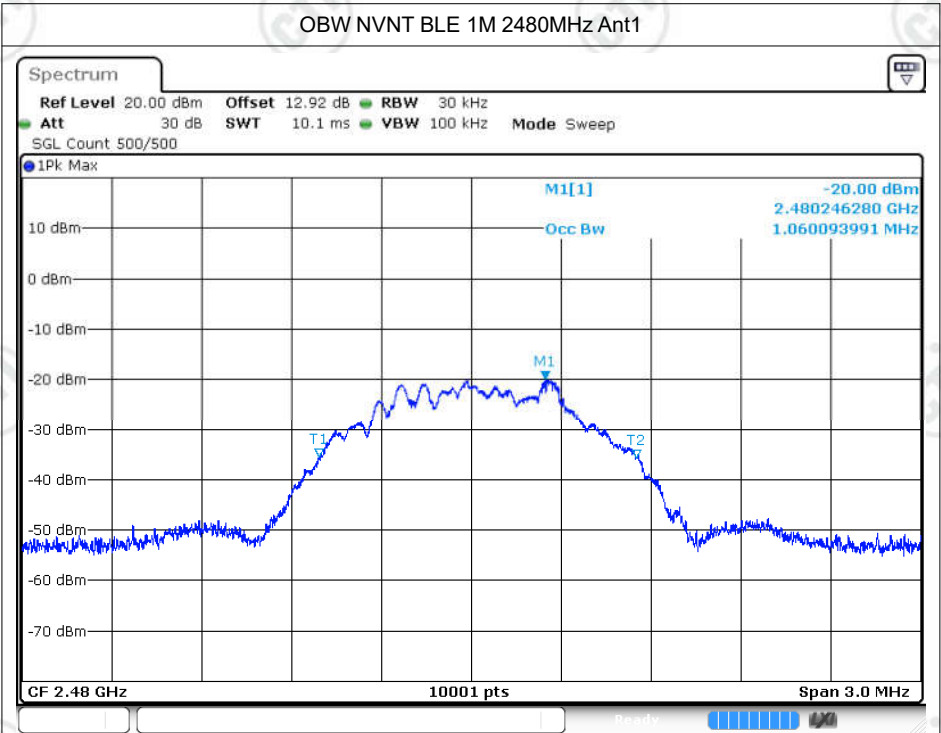


Date: 8.NOV.2024 14:35:52

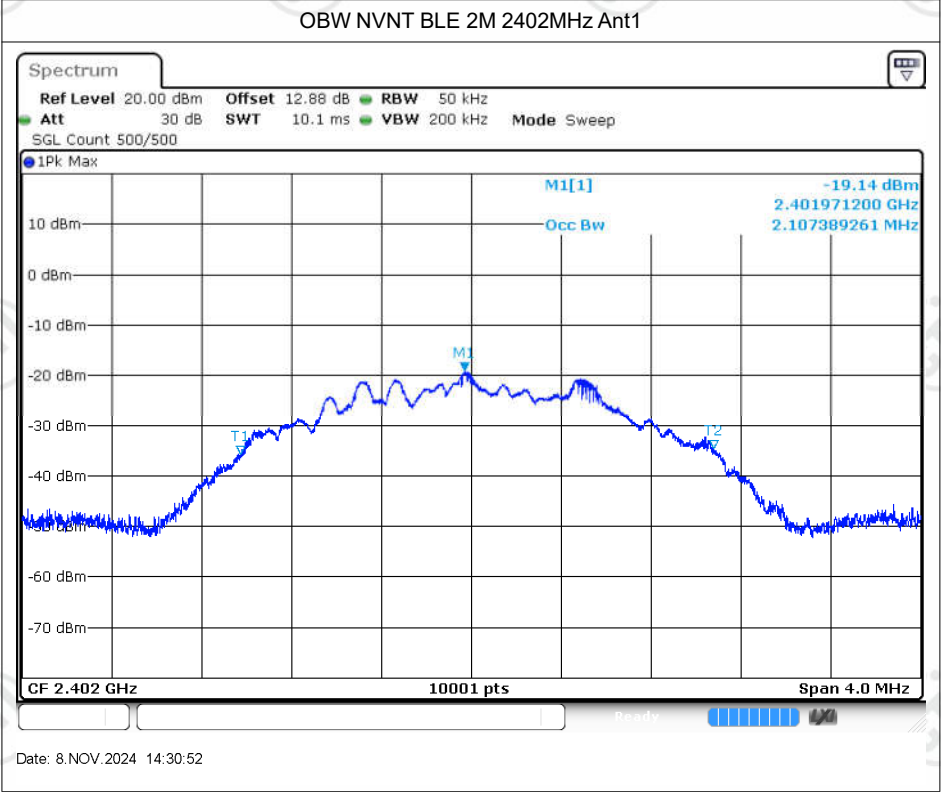
Occupied Channel Bandwidth

Condition	Antenna	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	Ant1	BLE 1M	2402	1.054
NVNT	Ant1	BLE 1M	2440	1.059
NVNT	Ant1	BLE 1M	2480	1.06
NVNT	Ant1	BLE 2M	2402	2.107
NVNT	Ant1	BLE 2M	2440	2.115
NVNT	Ant1	BLE 2M	2480	2.117

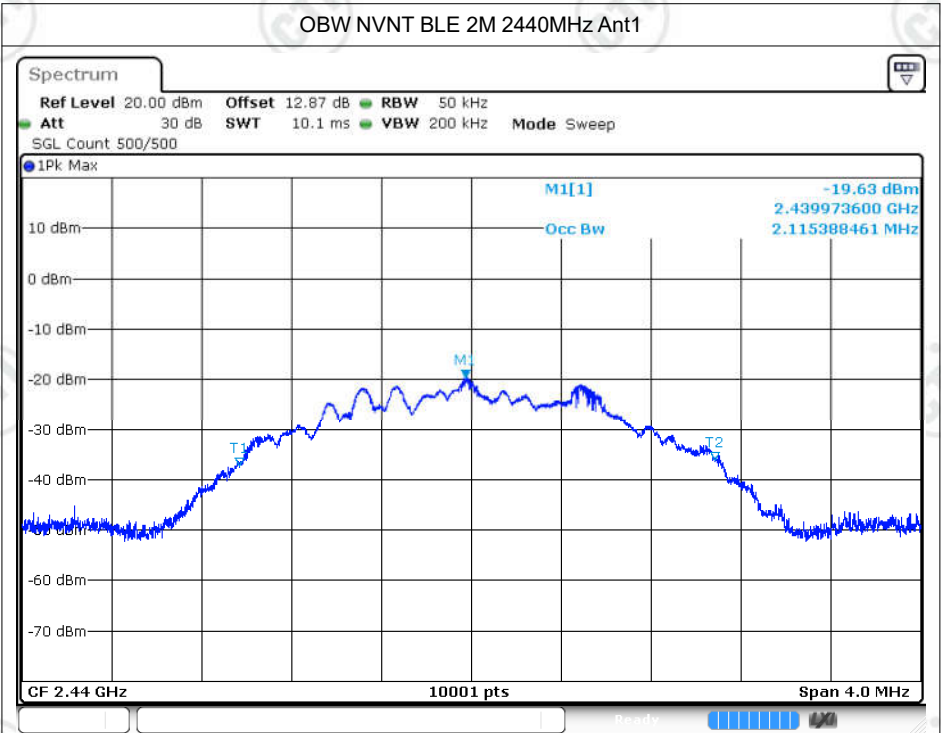




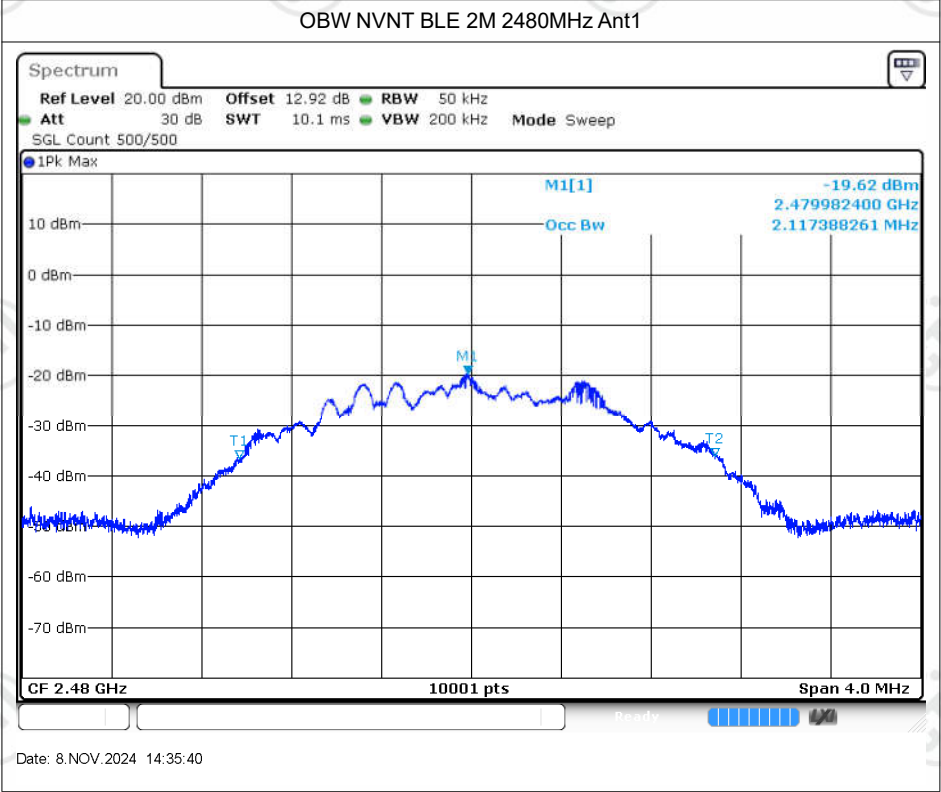
Date: 8.NOV.2024 14:27:55



Date: 8.NOV.2024 14:30:52



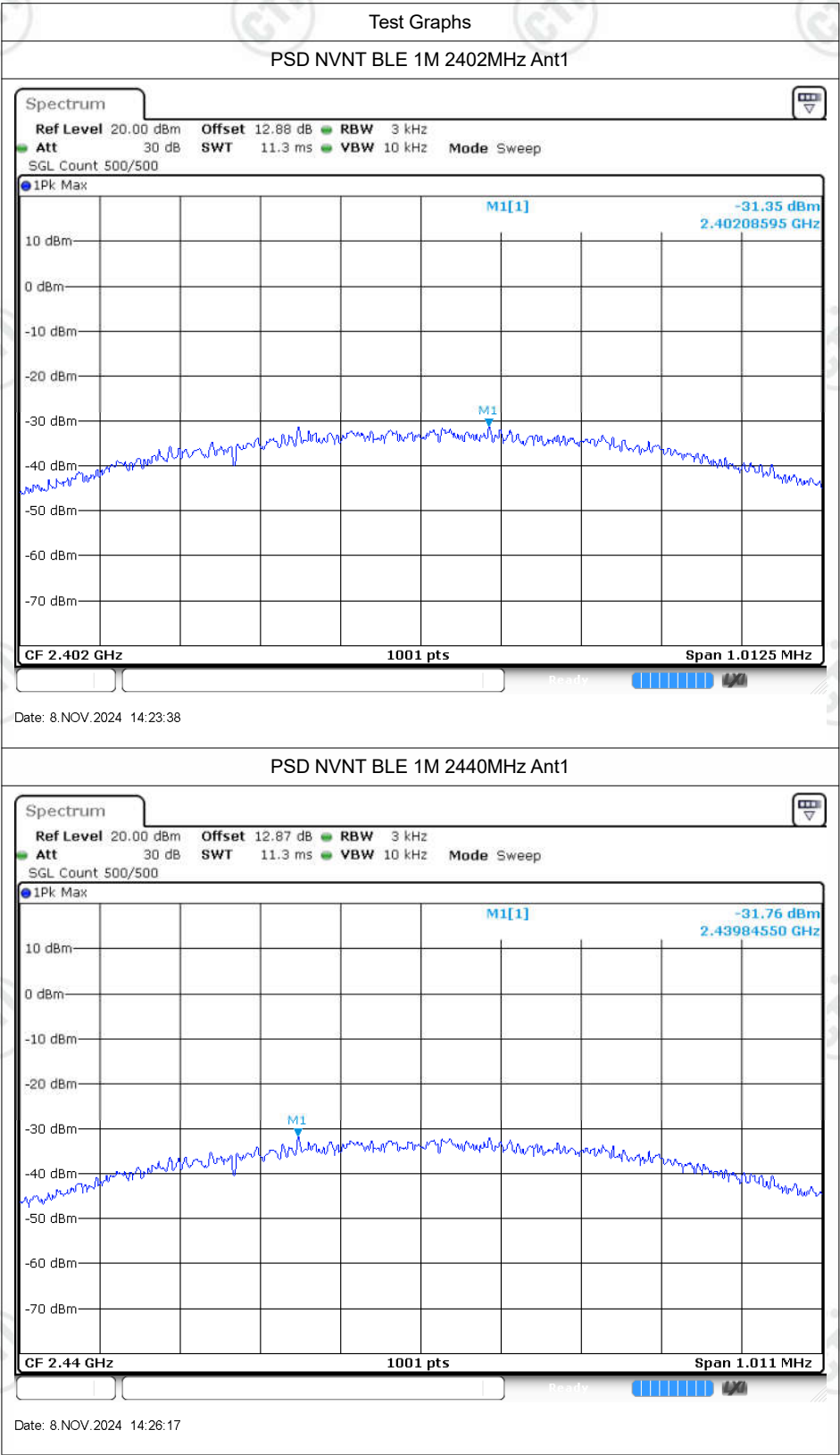
Date: 8.NOV.2024 14:33:47

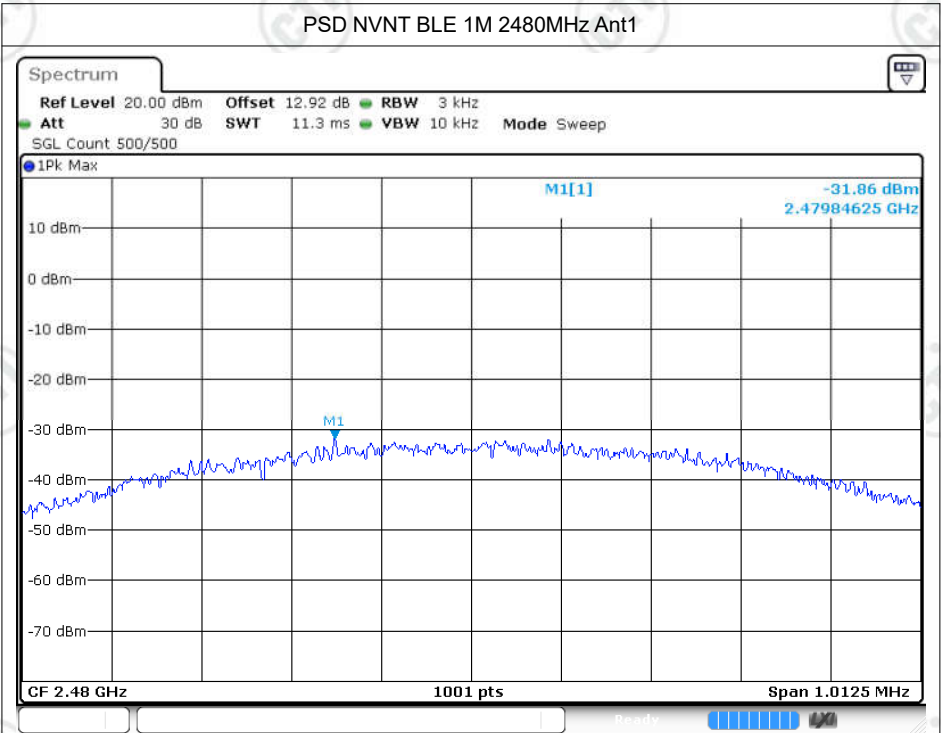


Date: 8.NOV.2024 14:35:40

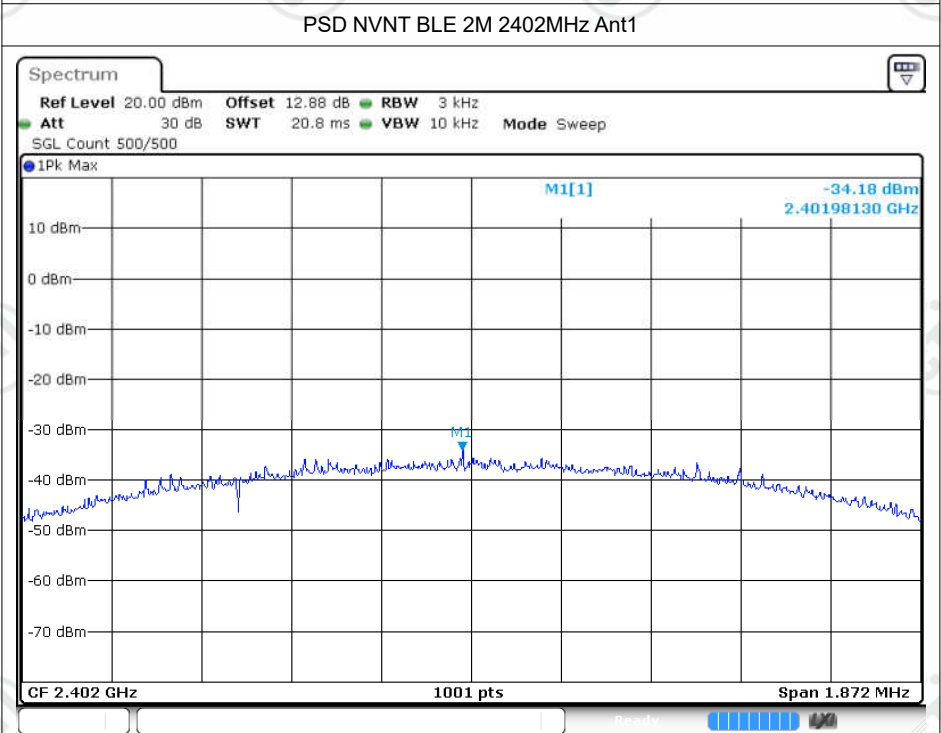
Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-31.35	8	Pass
NVNT	BLE 1M	2440	Ant1	-31.76	8	Pass
NVNT	BLE 1M	2480	Ant1	-31.86	8	Pass
NVNT	BLE 2M	2402	Ant1	-34.18	8	Pass
NVNT	BLE 2M	2440	Ant1	-34.56	8	Pass
NVNT	BLE 2M	2480	Ant1	-34.48	8	Pass

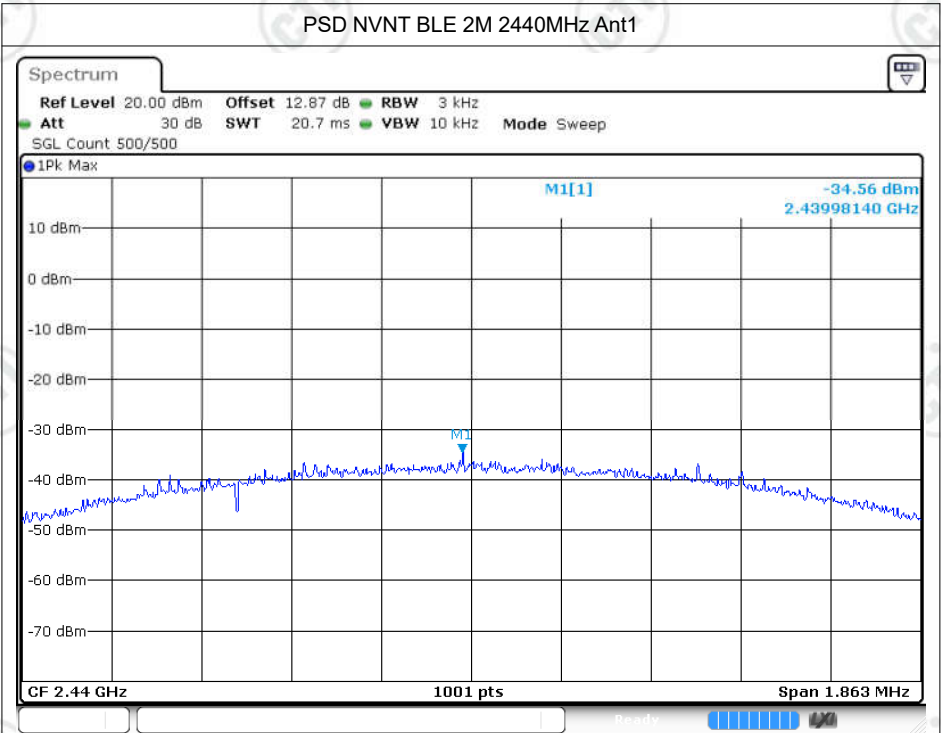




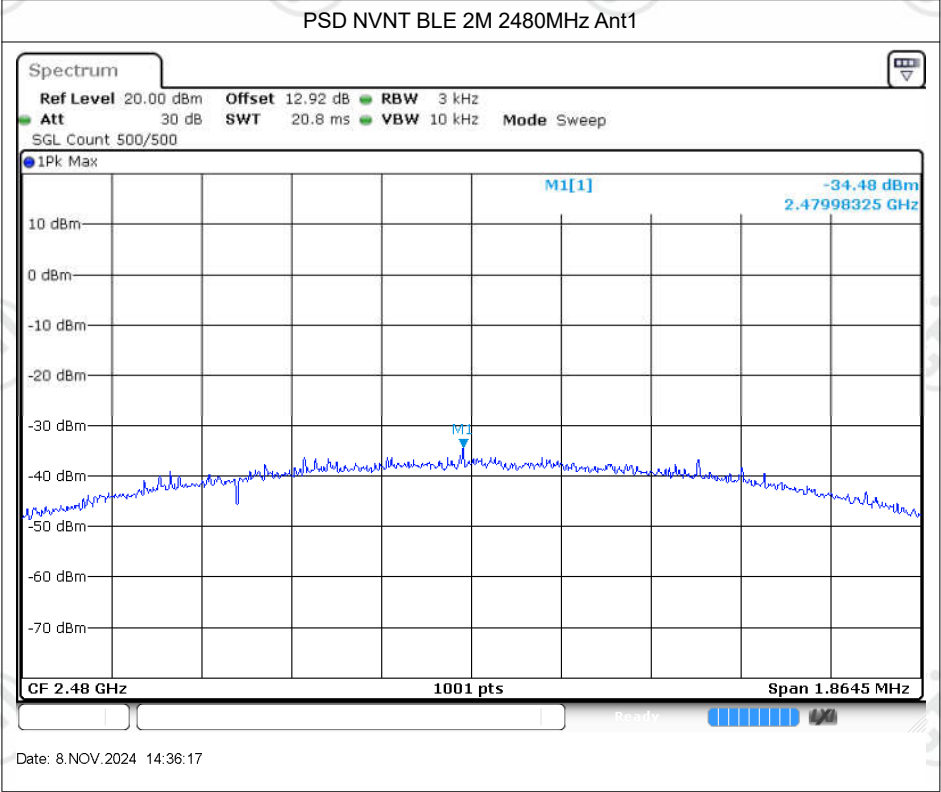
Date: 8.NOV.2024 14:28:30



Date: 8.NOV.2024 14:31:35



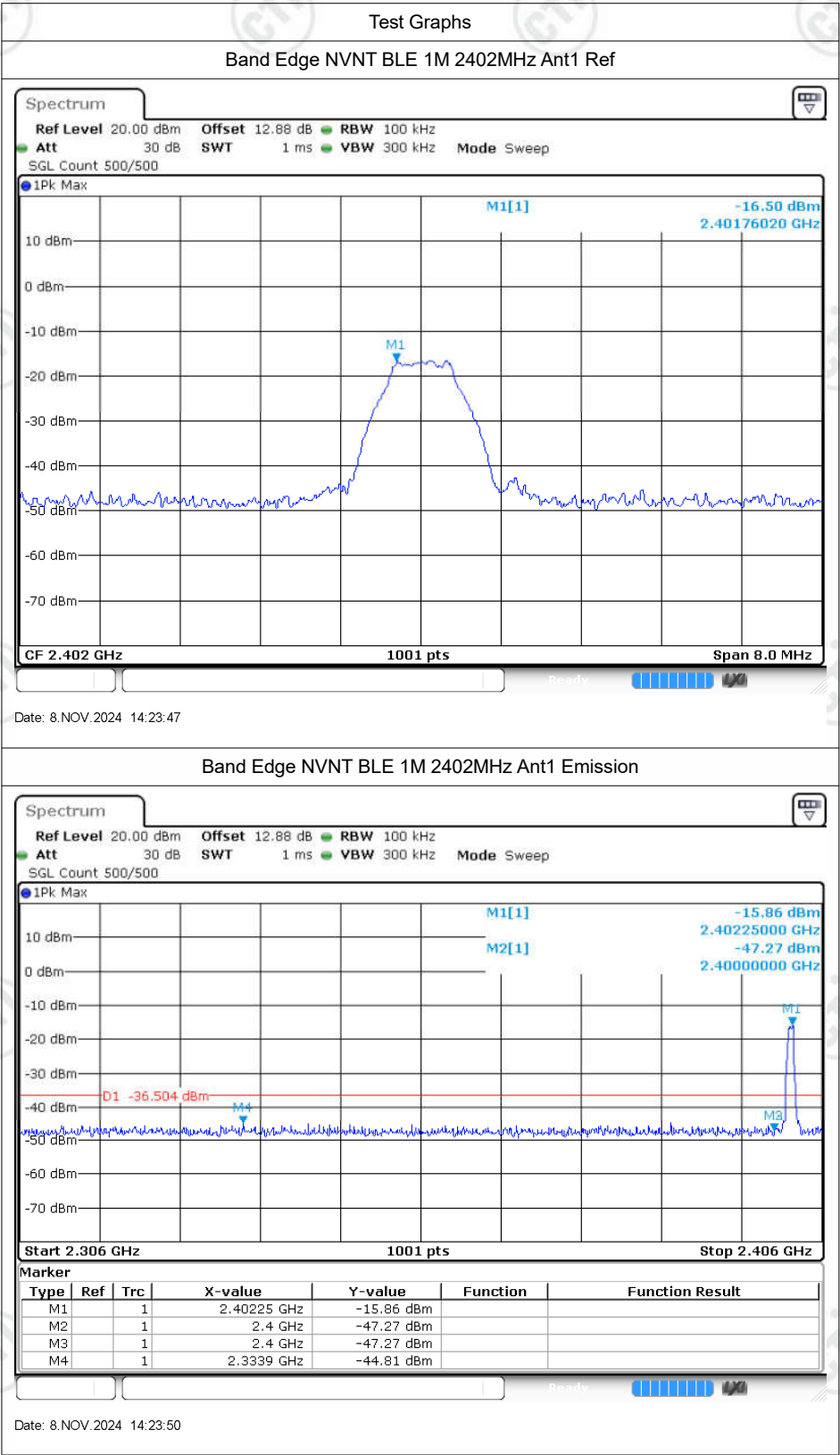
Date: 8.NOV.2024 14:34:23

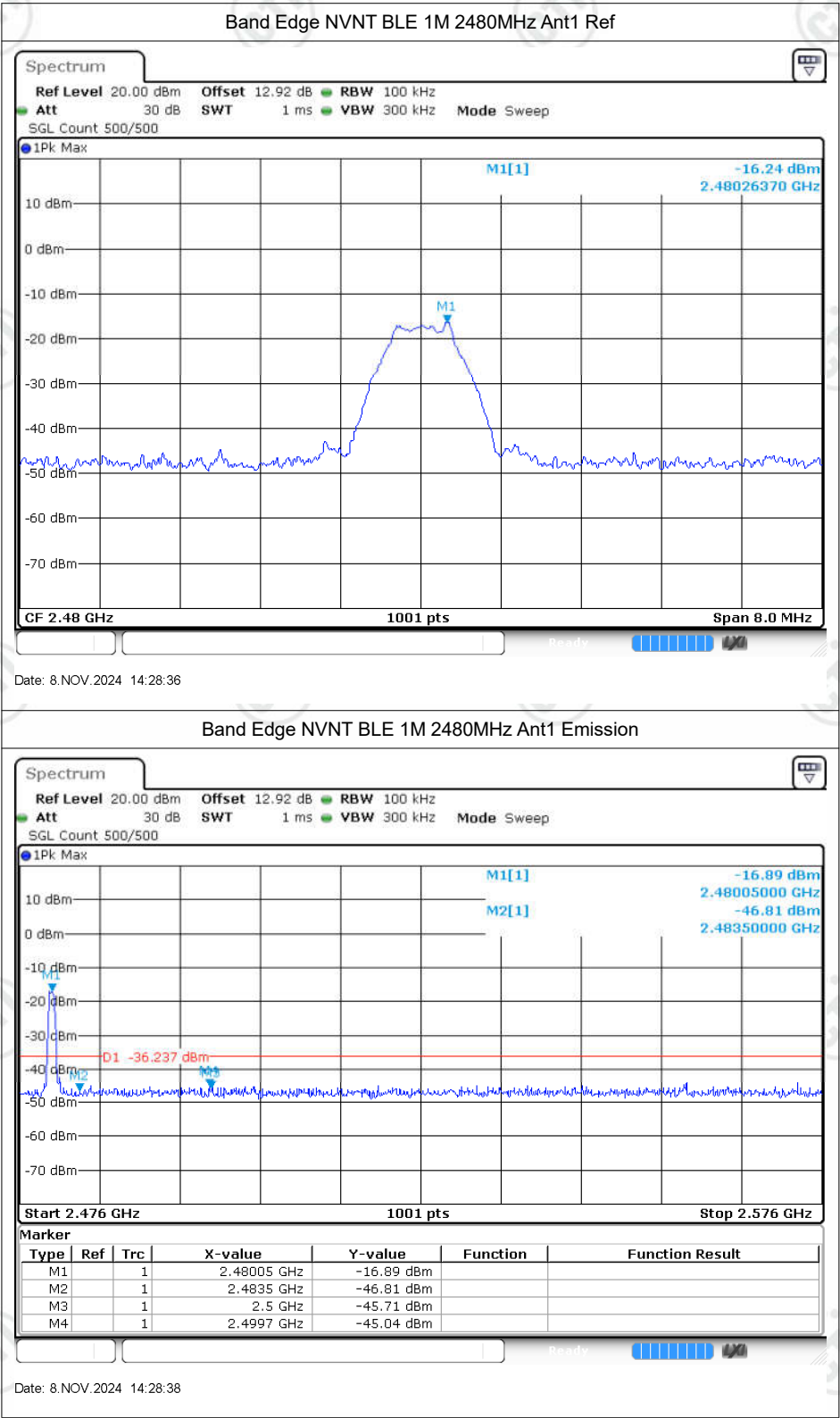


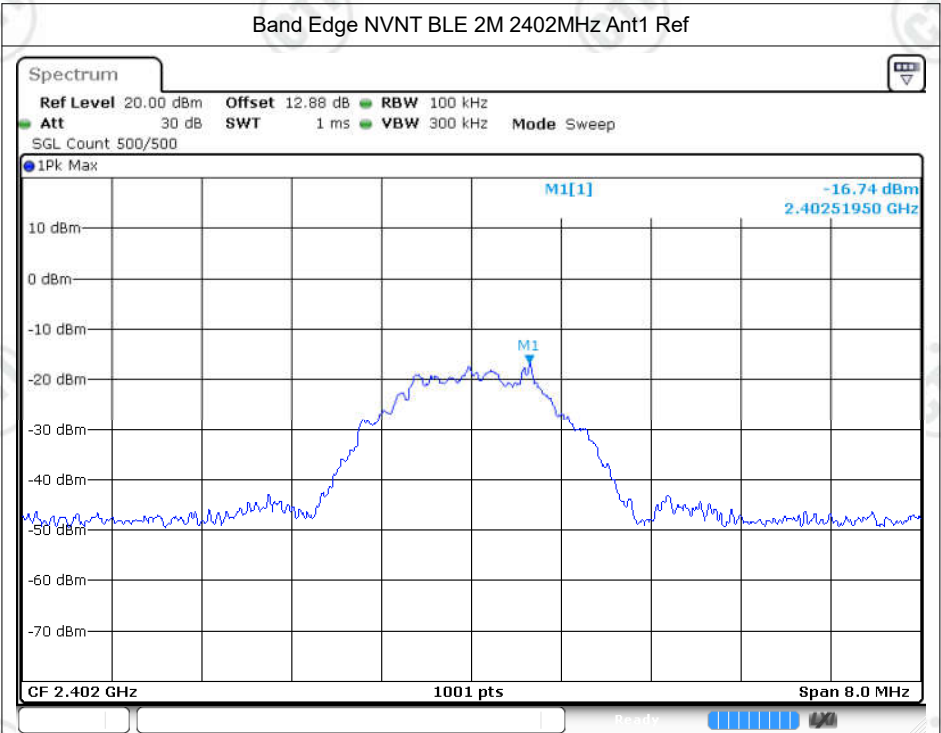
Date: 8.NOV.2024 14:36:17

Band Edge

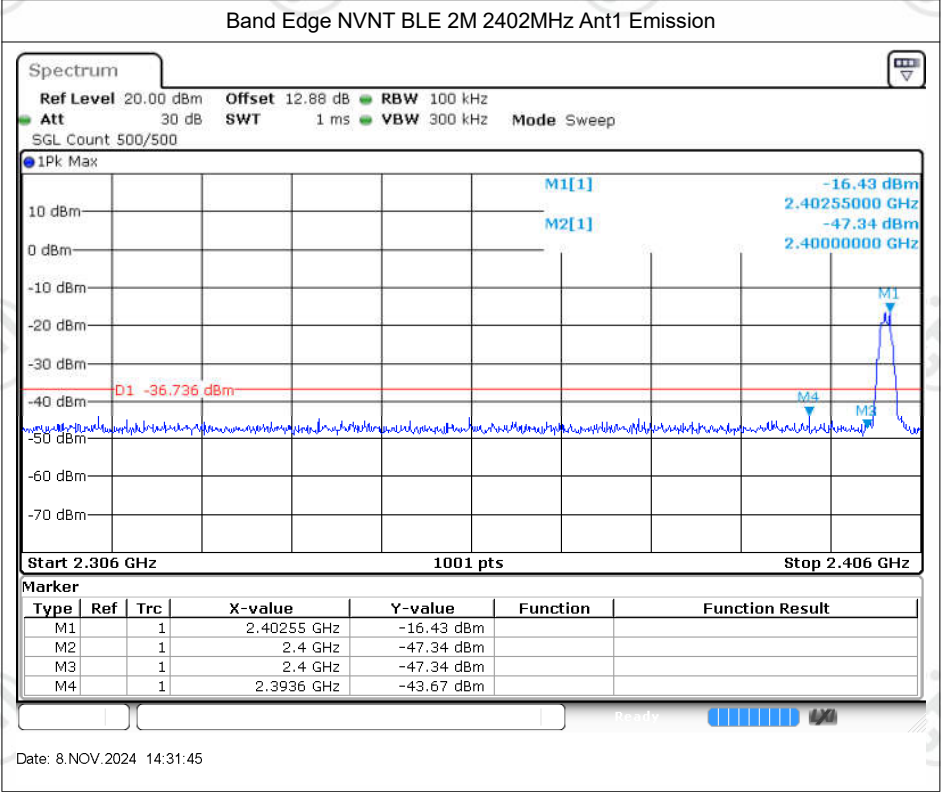
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-28.31	-20	Pass
NVNT	BLE 1M	2480	Ant1	-28.79	-20	Pass
NVNT	BLE 2M	2402	Ant1	-26.93	-20	Pass
NVNT	BLE 2M	2480	Ant1	-26.4	-20	Pass



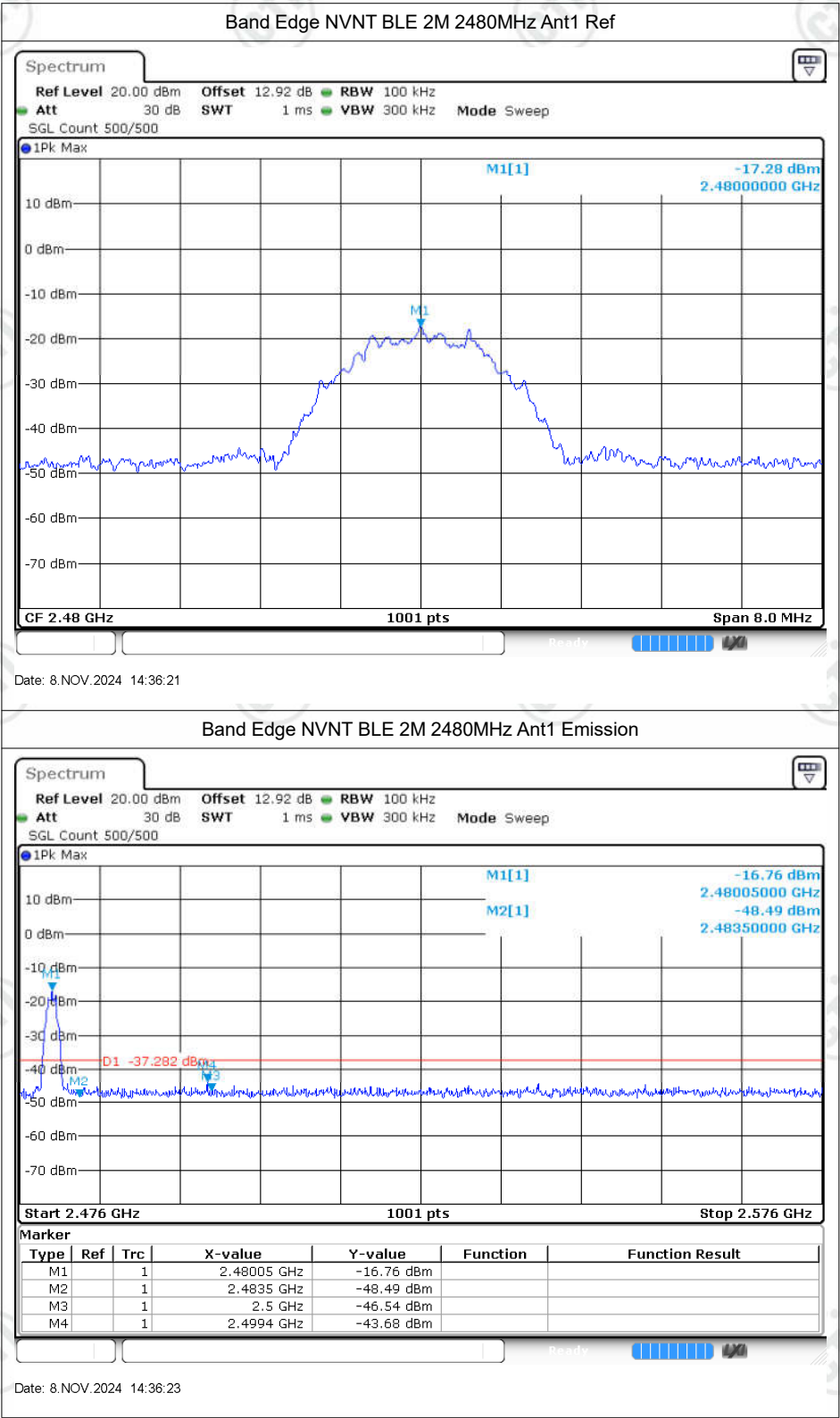




Date: 8.NOV.2024 14:31:41

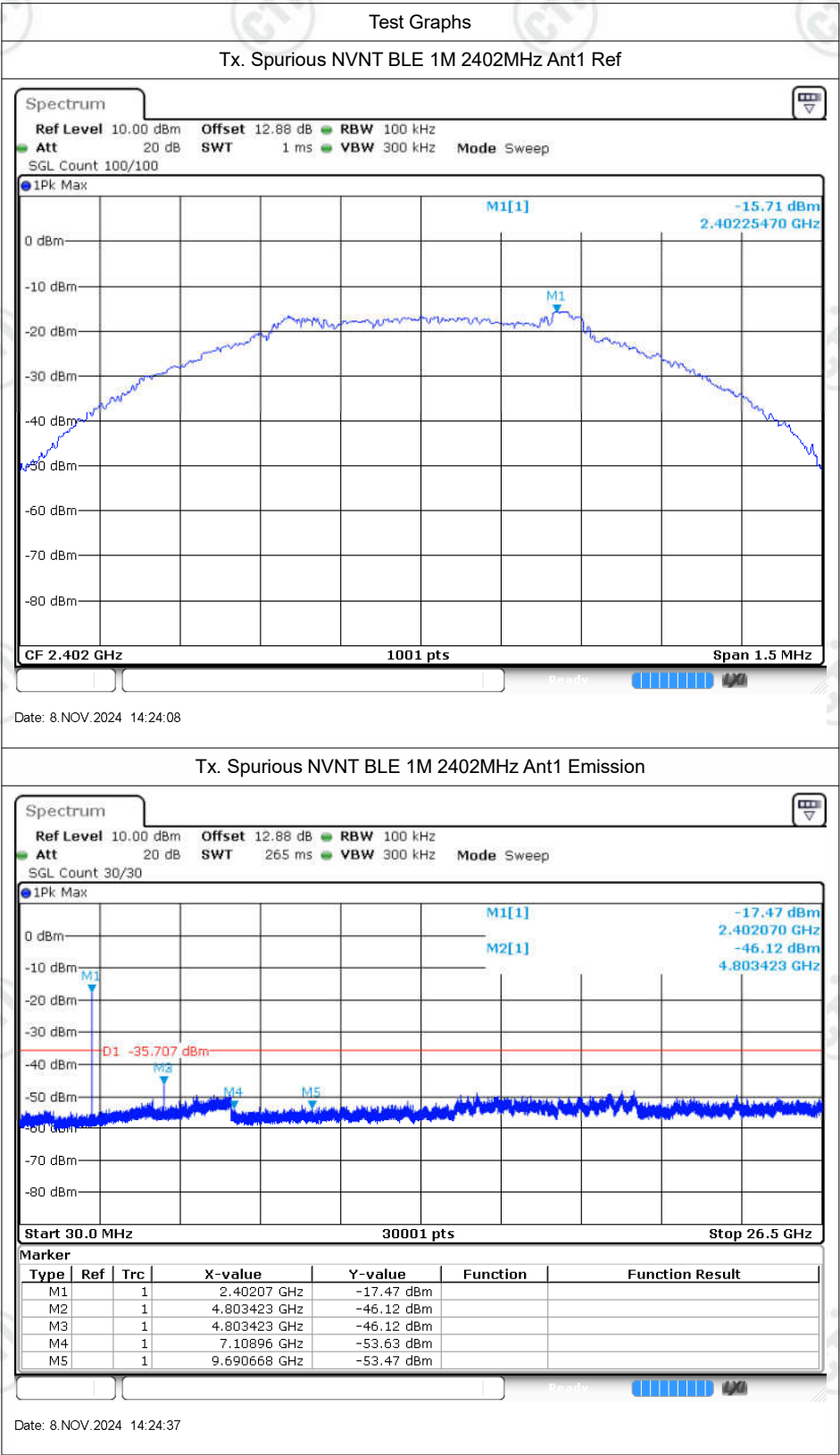


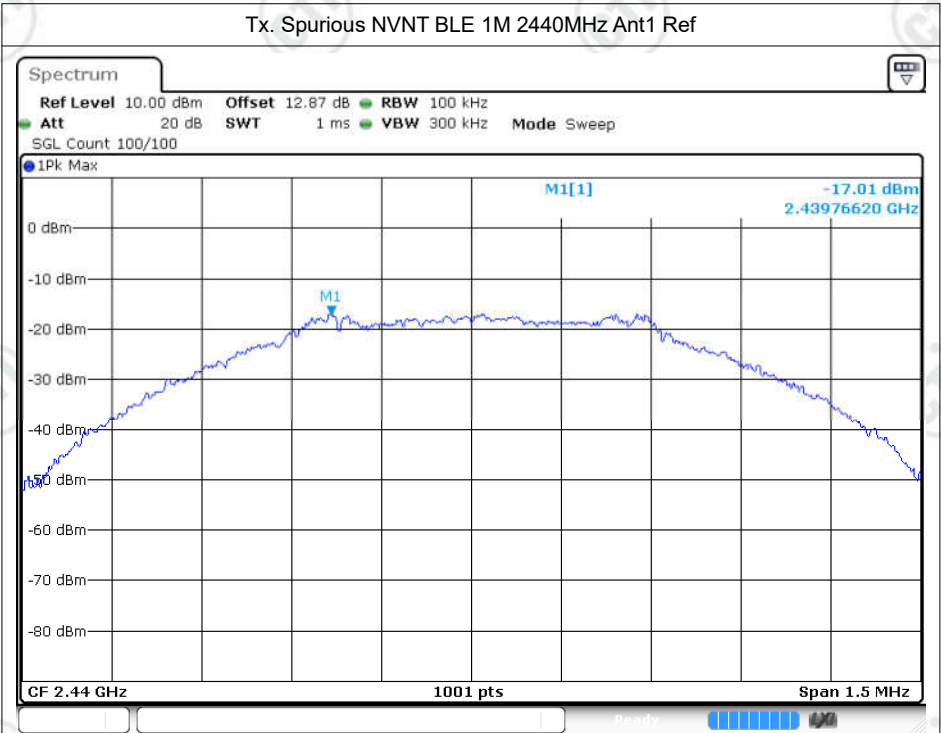
Date: 8.NOV.2024 14:31:45



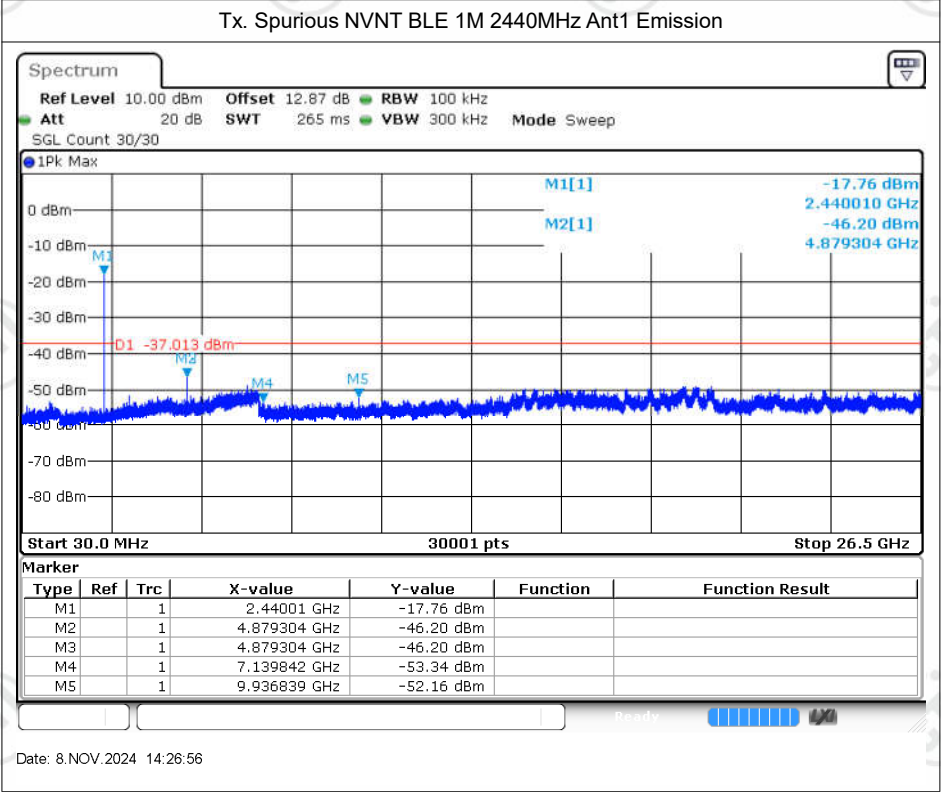
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-30.40	-20	Pass
NVNT	BLE 1M	2440	Ant1	-29.19	-20	Pass
NVNT	BLE 1M	2480	Ant1	-30.32	-20	Pass
NVNT	BLE 2M	2402	Ant1	-31.13	-20	Pass
NVNT	BLE 2M	2440	Ant1	-31.34	-20	Pass
NVNT	BLE 2M	2480	Ant1	-30.03	-20	Pass

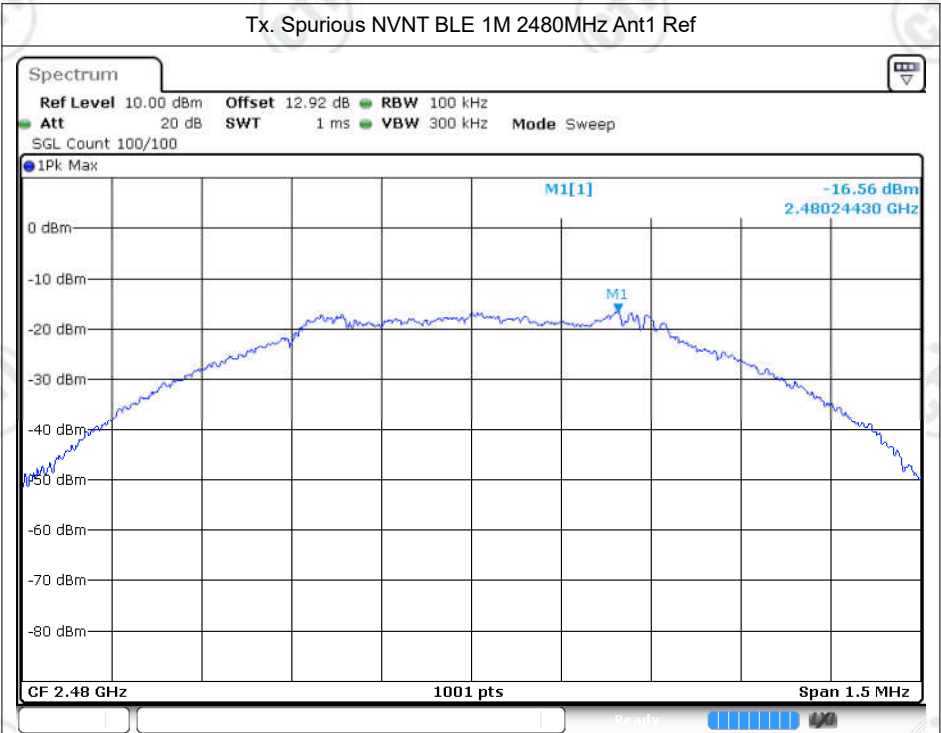




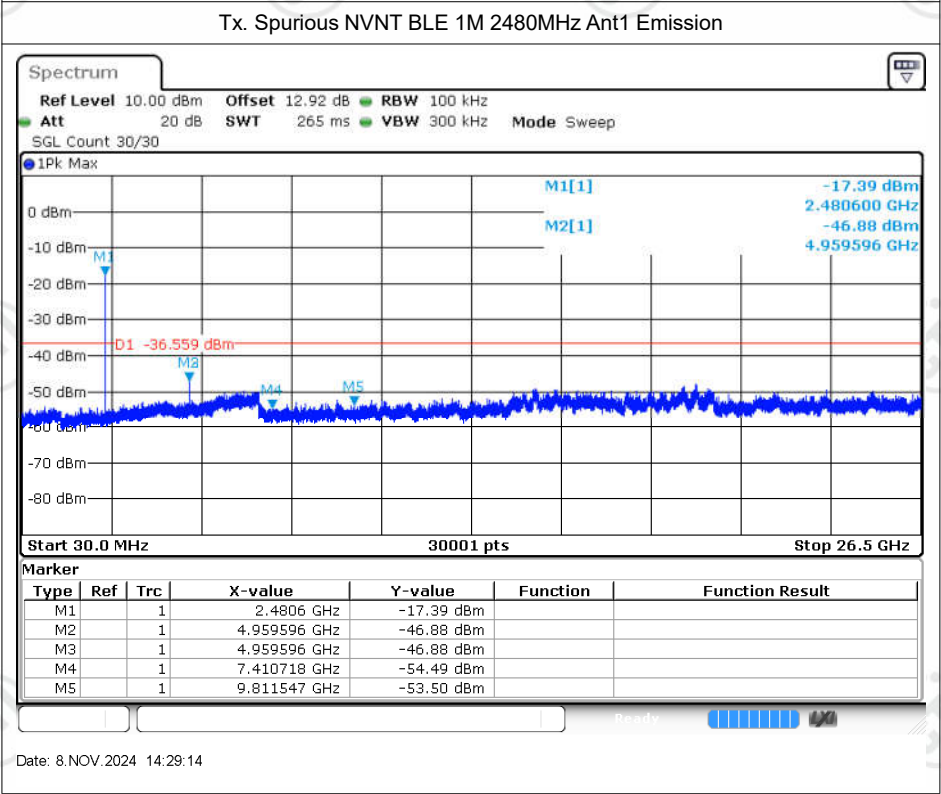
Date: 8.NOV.2024 14:26:26



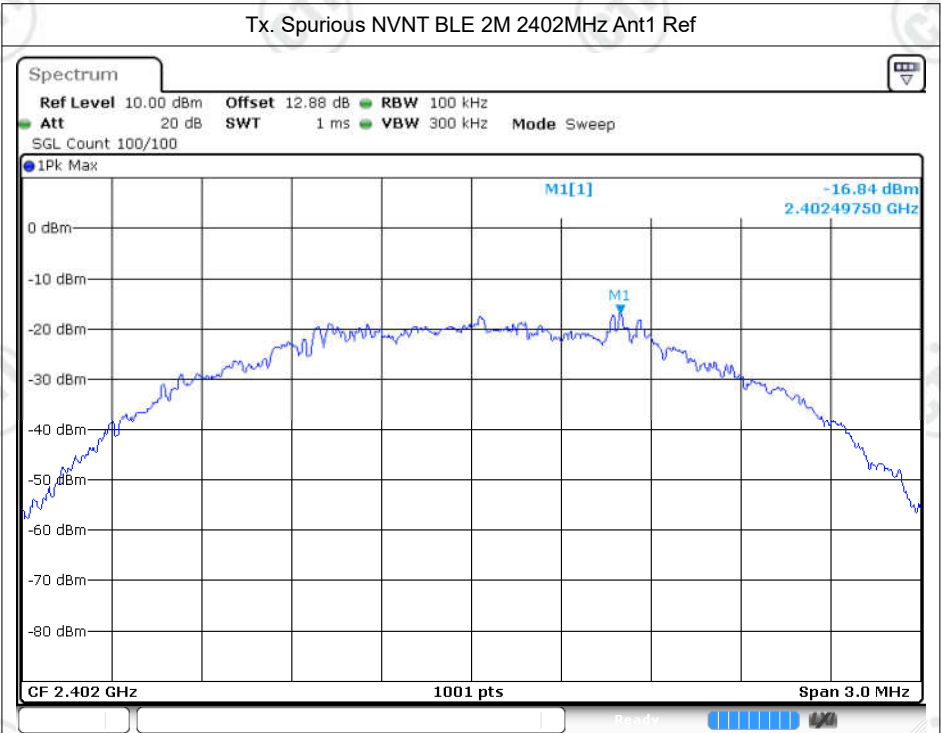
Date: 8.NOV.2024 14:26:56



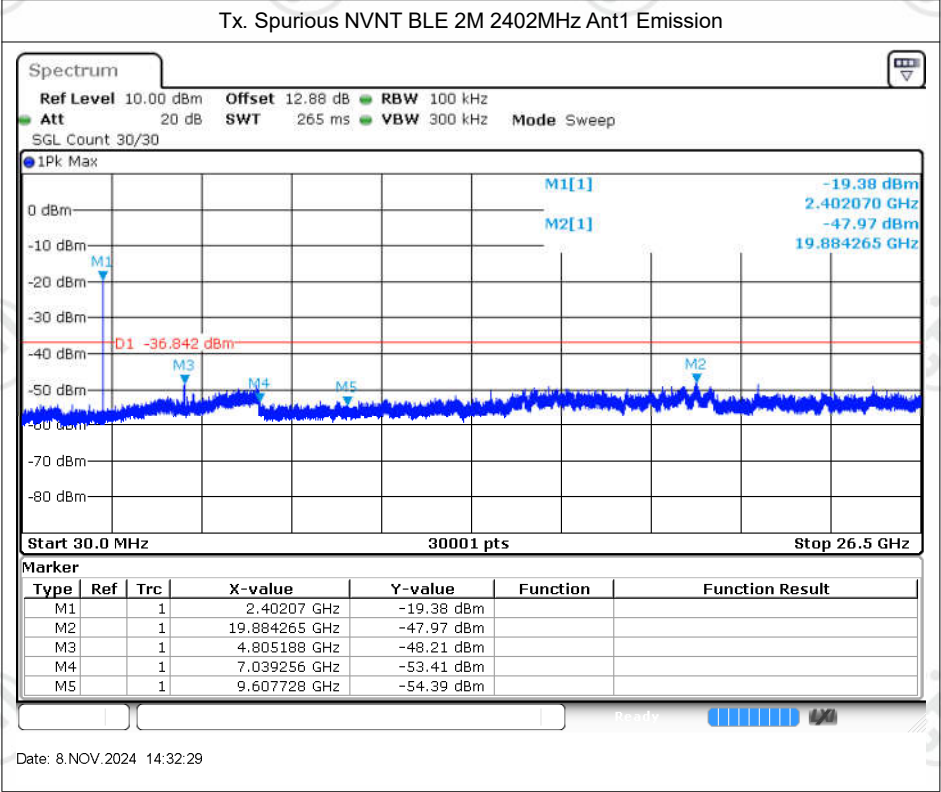
Date: 8.NOV.2024 14:28:44



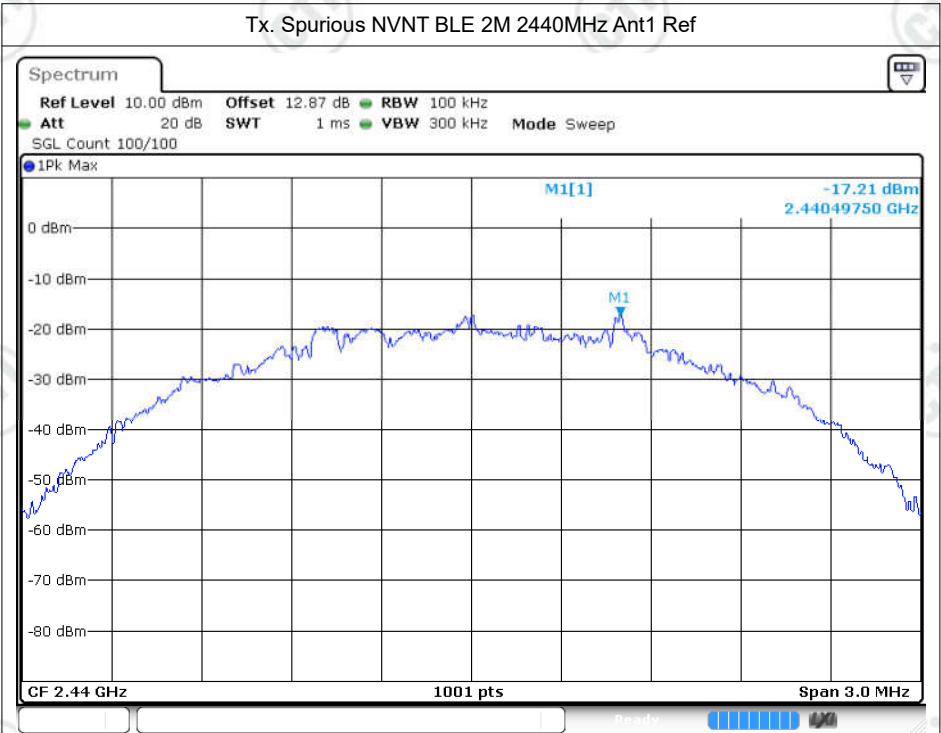
Date: 8.NOV.2024 14:29:14



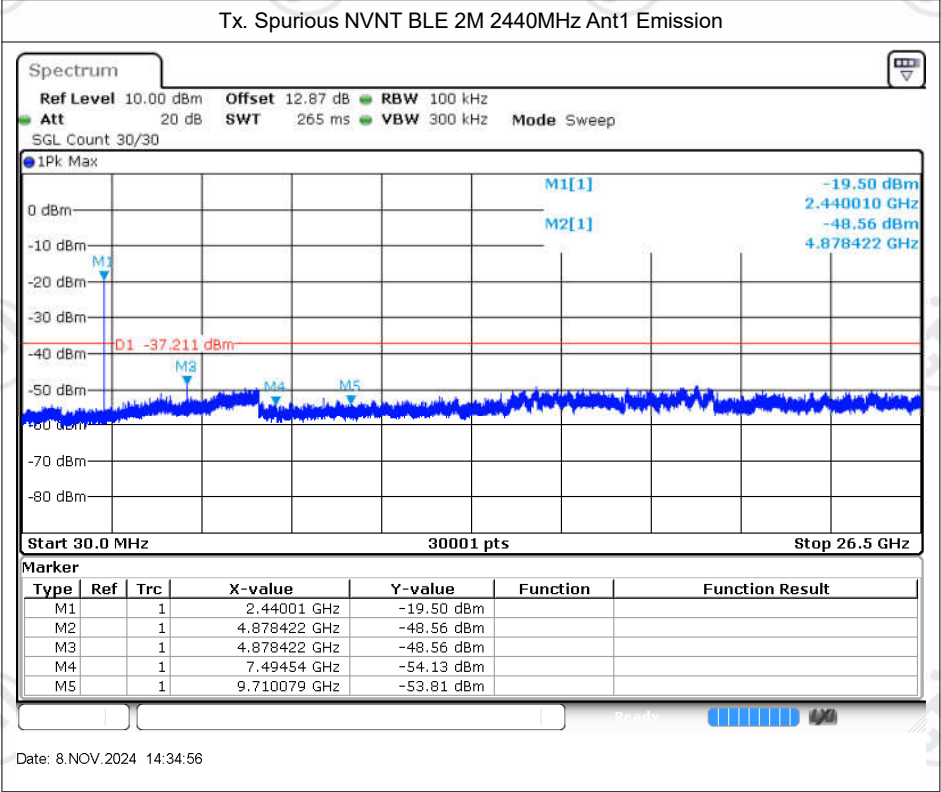
Date: 8.NOV.2024 14:32:00



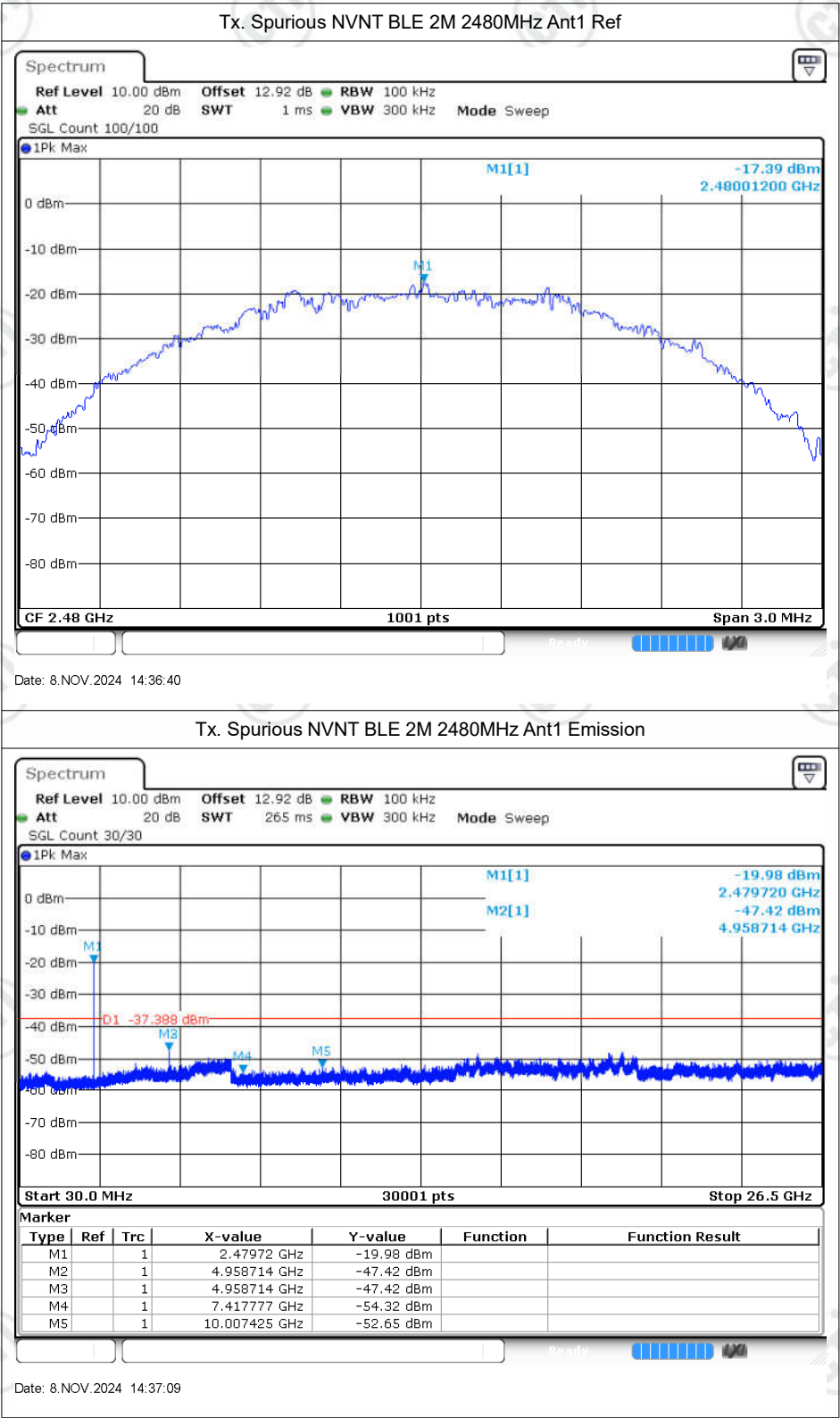
Date: 8.NOV.2024 14:32:29



Date: 8.NOV.2024 14:34:27



Date: 8.NOV.2024 14:34:56



*** End of Report ***