Appendix: Bluetooth LE

Contents

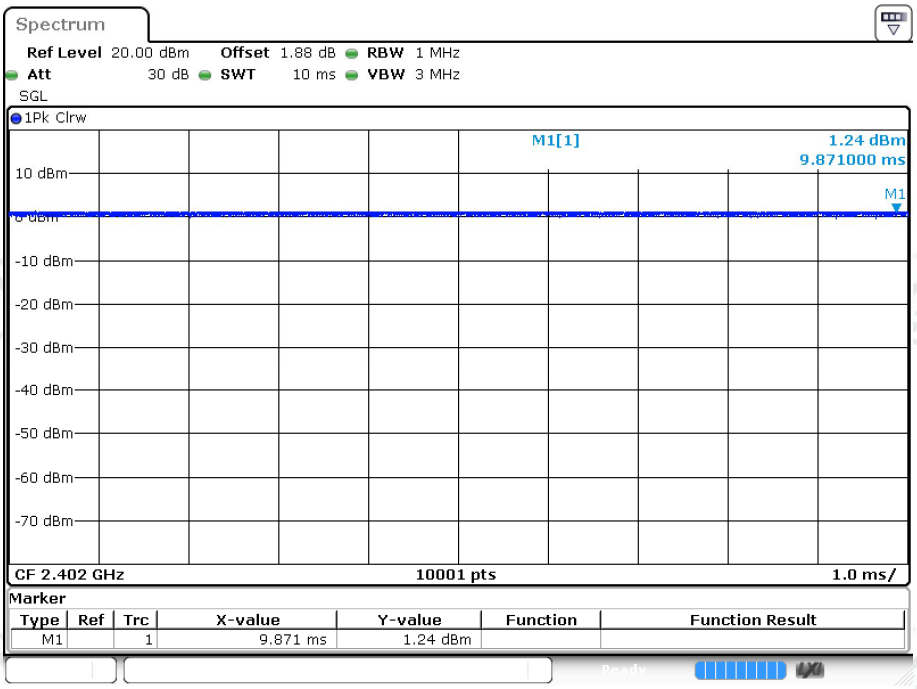
Duty Cycle 3
Maximum Peak Conducted Output Power 6
-6dB Bandwidth 9
Occupied Channel Bandwidth 12
Maximum Power Spectral Density Level 15
Band Edge 18
Conducted RF Spurious Emission 21

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	BLE 1M	2402	Ant1	100	0	0
NVNT	BLE 1M	2440	Ant1	100	0	0
NVNT	BLE 1M	2480	Ant1	100	0	0

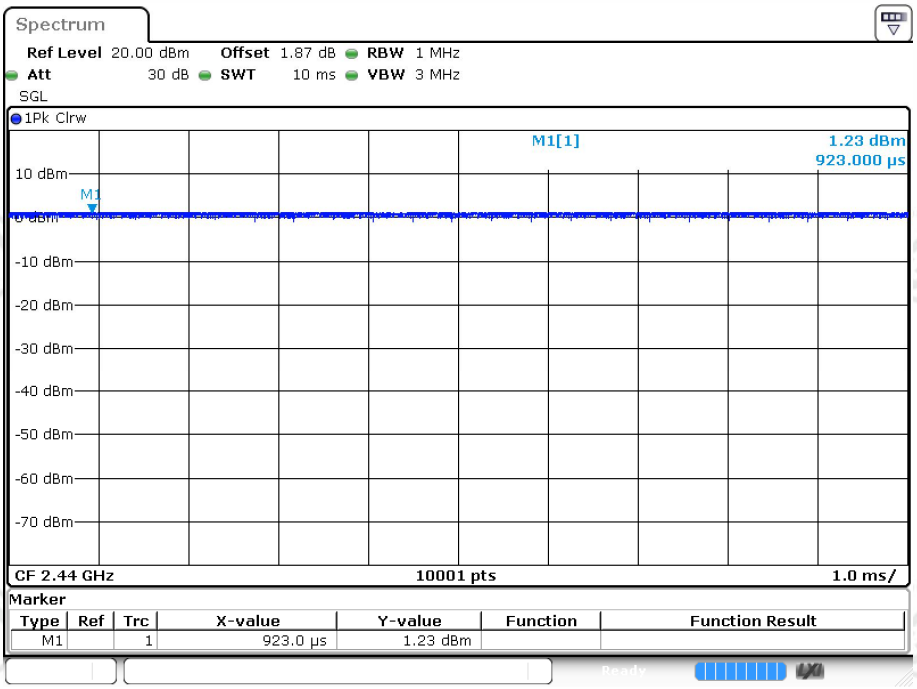
Test Graphs

Duty Cycle NVNT BLE 1M 2402MHz Ant1



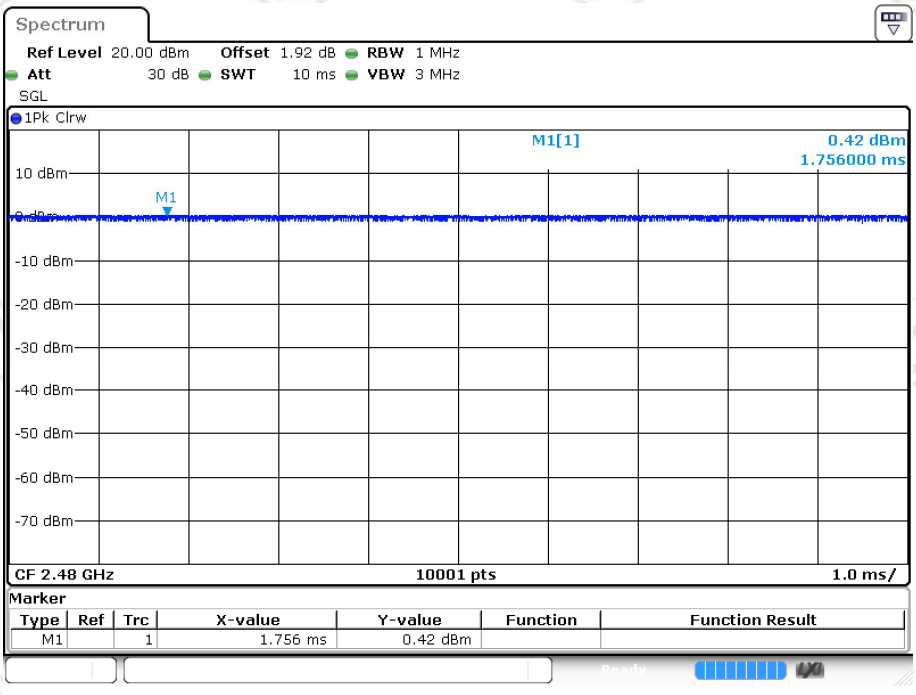
Date: 20.MAY.2026 13:40:19

Duty Cycle NVNT BLE 1M 2440MHz Ant1



Date: 20.MAY.2026 13:42:03

Duty Cycle NVNT BLE 1M 2480MHz Ant1

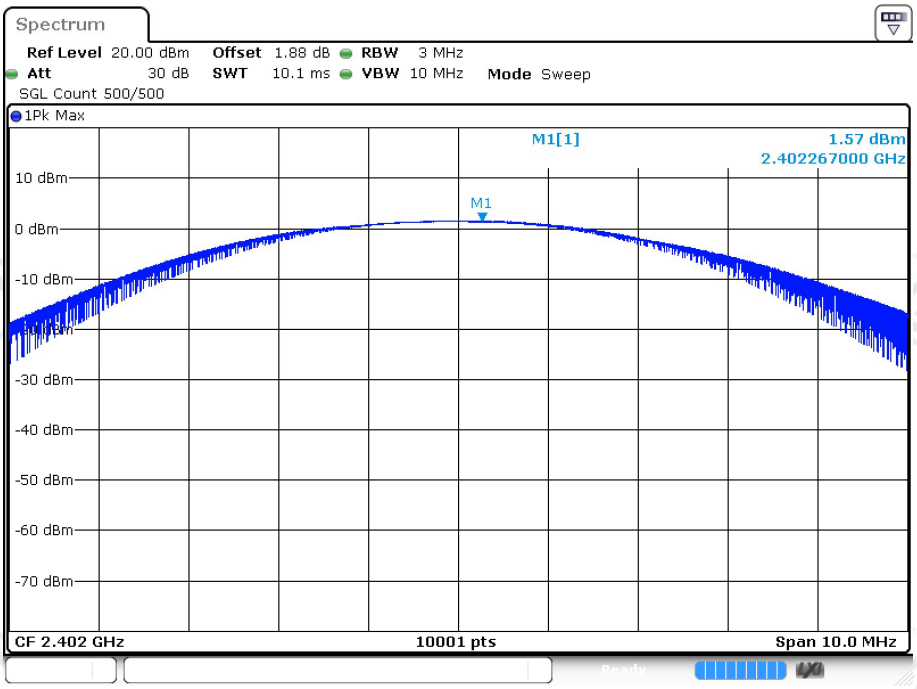


Maximum Peak Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.57	30	Pass
NVNT	BLE 1M	2440	Ant1	1.59	30	Pass
NVNT	BLE 1M	2480	Ant1	0.84	30	Pass

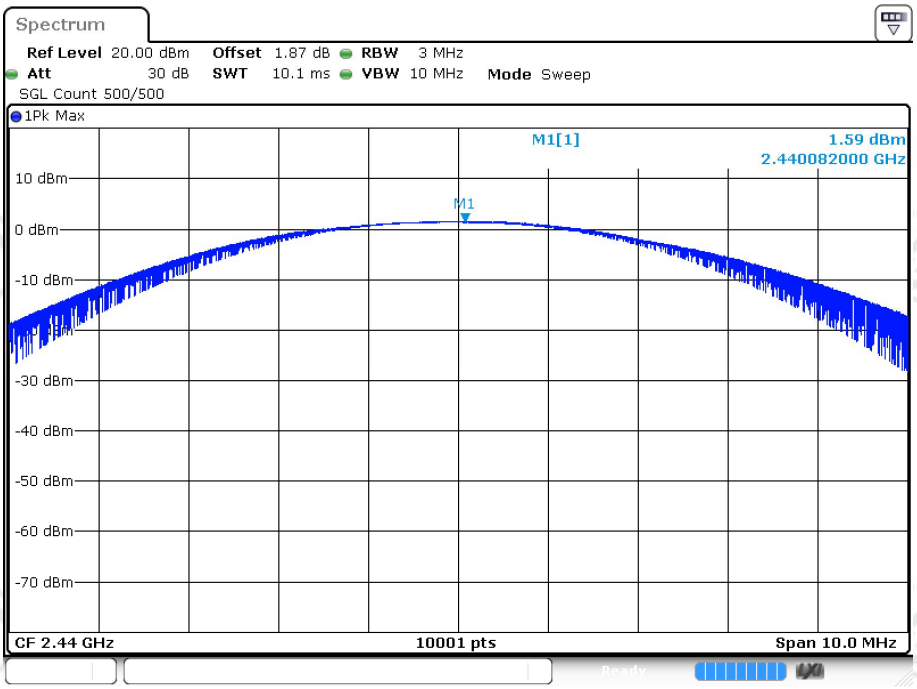
Test Graphs

Peak Power NVNT BLE 1M 2402MHz Ant1



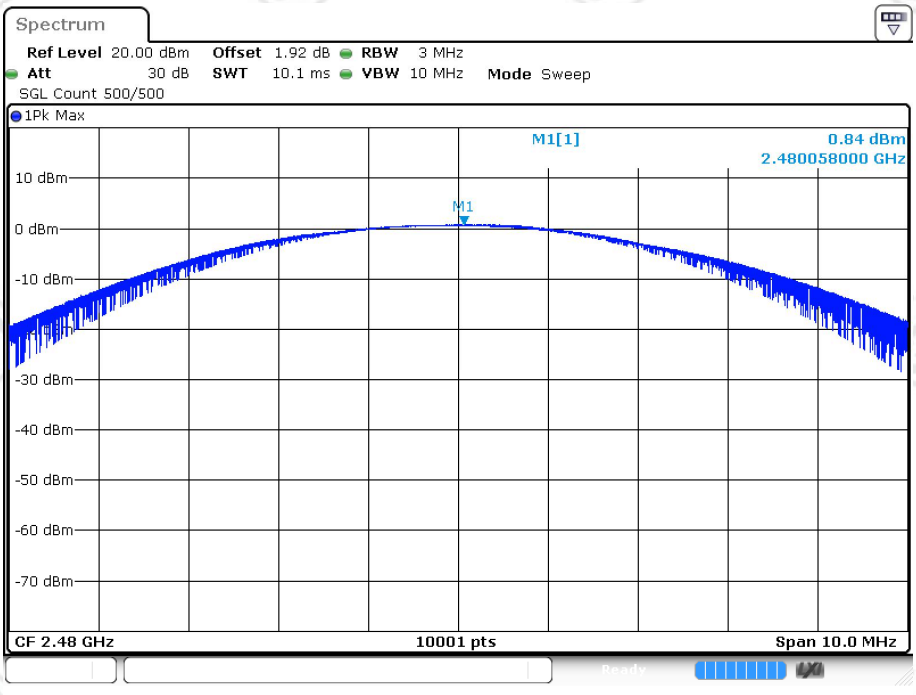
Date: 20.MAY.2026 13:40:30

Peak Power NVNT BLE 1M 2440MHz Ant1



Date: 20.MAY.2026 13:42:13

Peak Power NVNT BLE 1M 2480MHz Ant1

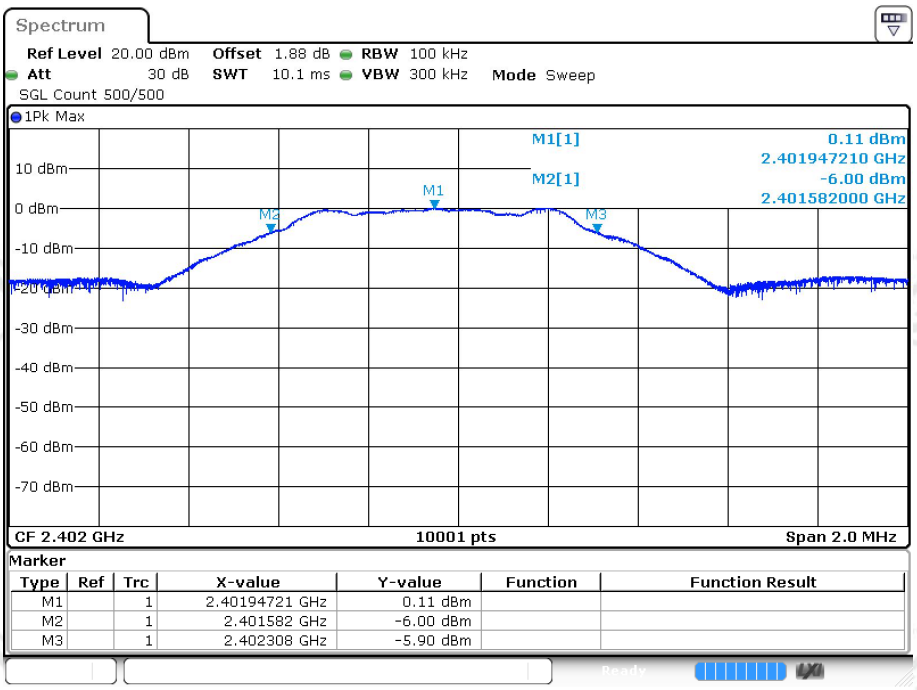


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.726	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.723	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.725	0.5	Pass

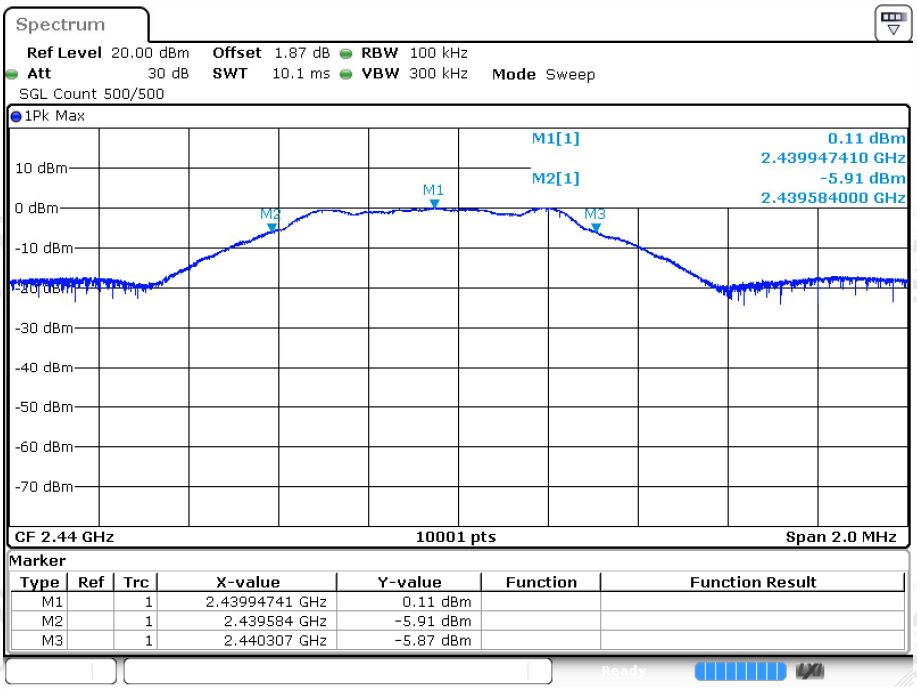
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



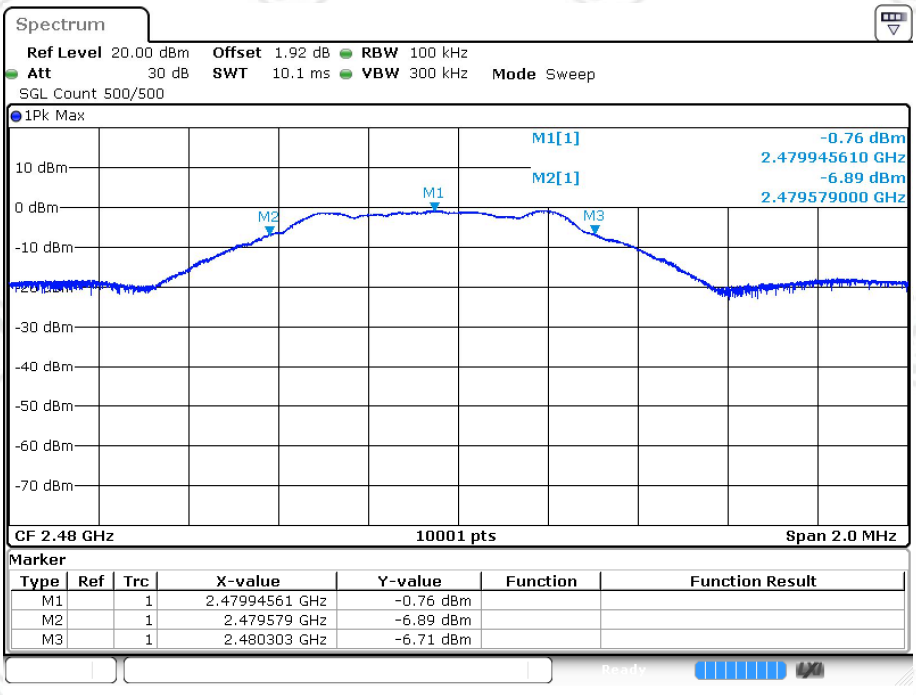
Date: 20.MAY.2026 13:40:52

-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Date: 20.MAY.2026 13:42:36

-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1

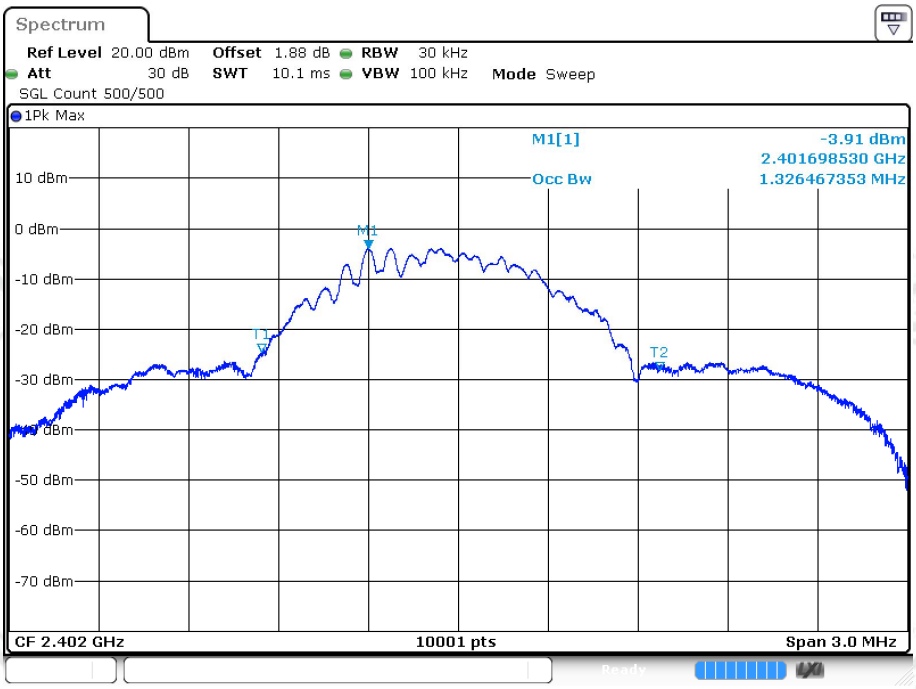


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.326
NVNT	BLE 1M	2440	Ant1	1.315
NVNT	BLE 1M	2480	Ant1	1.308

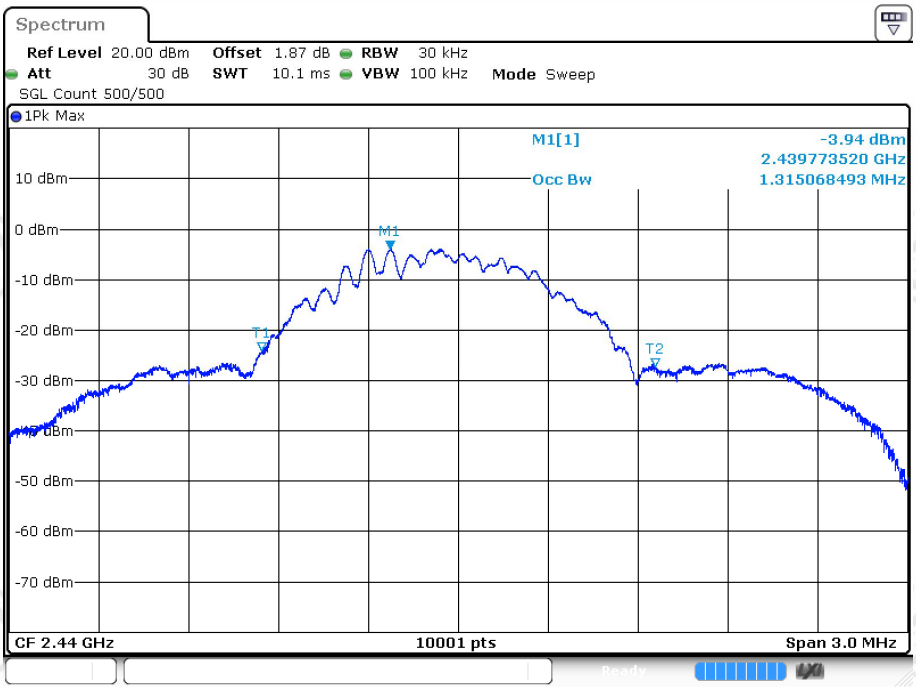
Test Graphs

OBW NVNT BLE 1M 2402MHz Ant1



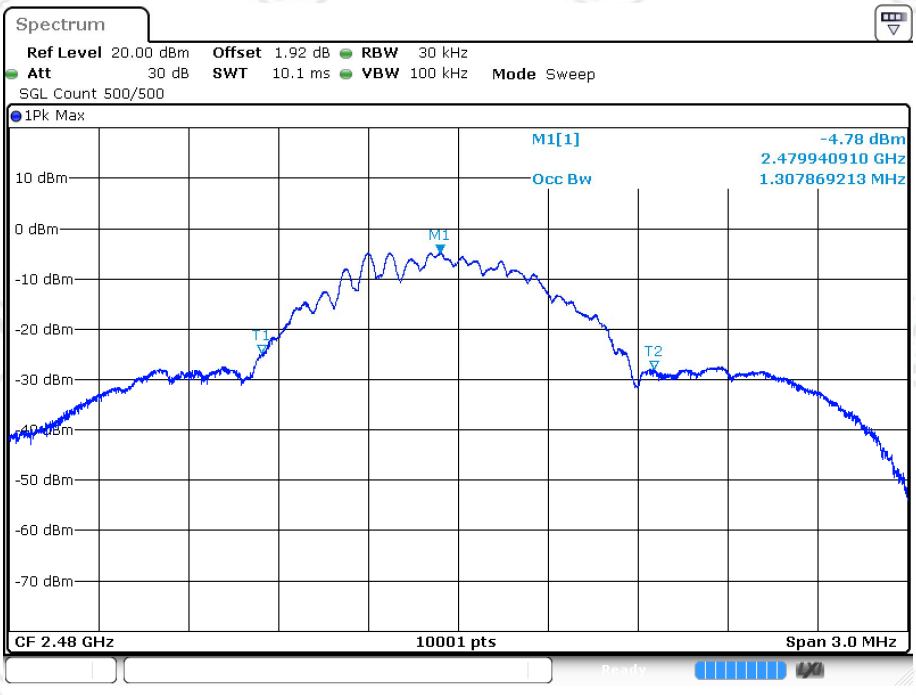
Date: 20.MAY.2026 13:40:41

OBW NVNT BLE 1M 2440MHz Ant1



Date: 20.MAY.2026 13:42:25

OBW NVNT BLE 1M 2480MHz Ant1

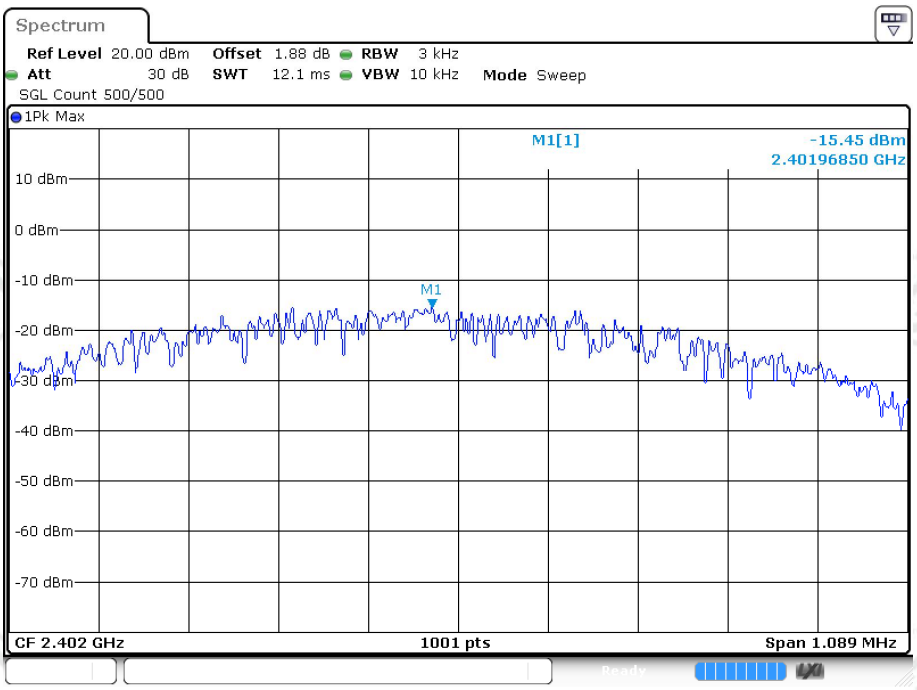


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-15.45	8	Pass
NVNT	BLE 1M	2440	Ant1	-15.49	8	Pass
NVNT	BLE 1M	2480	Ant1	-16.29	8	Pass

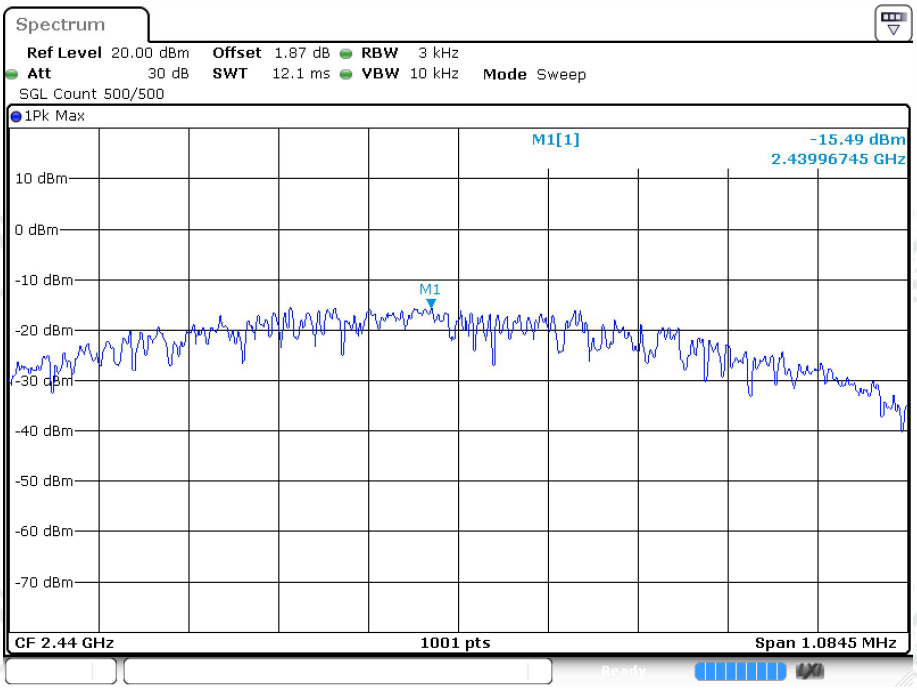
Test Graphs

PSD NVNT BLE 1M 2402MHz Ant1



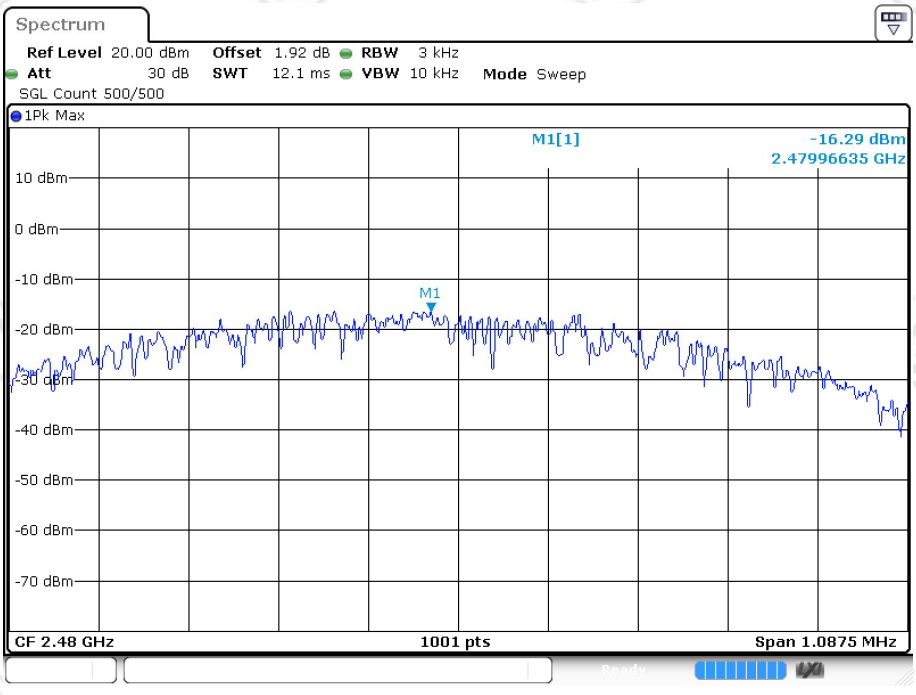
Date: 20.MAY.2026 13:41:10

PSD NVNT BLE 1M 2440MHz Ant1



Date: 20.MAY.2026 13:42:54

PSD NVNT BLE 1M 2480MHz Ant1

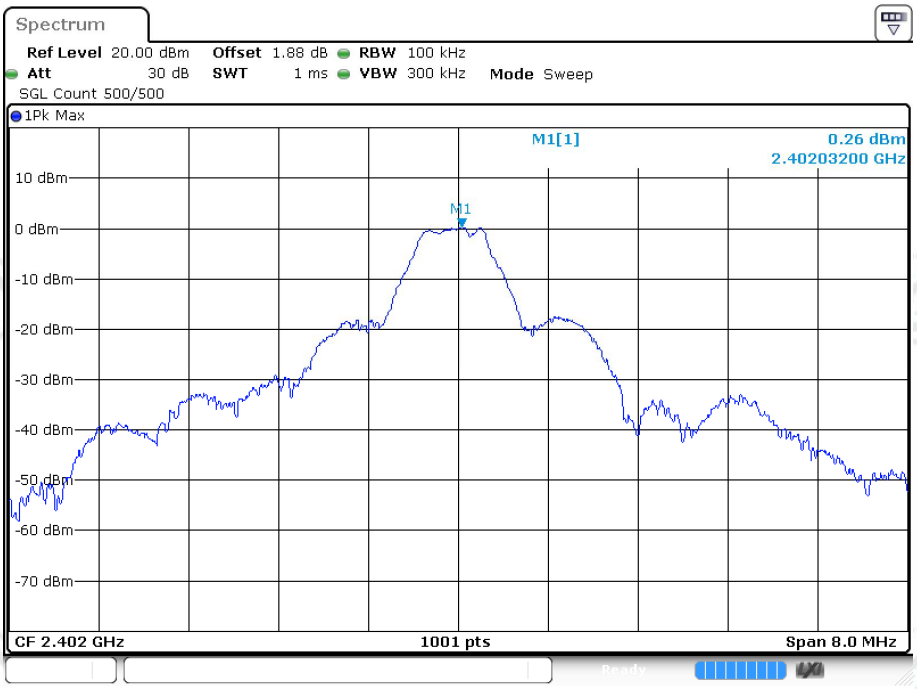


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-33.55	-20	Pass
NVNT	BLE 1M	2480	Ant1	-47.46	-20	Pass

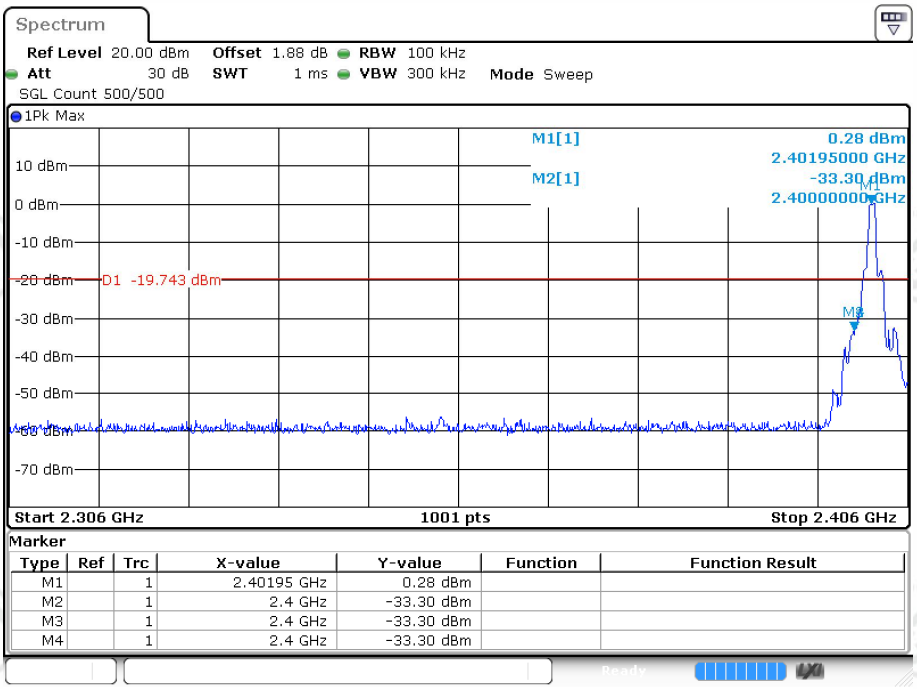
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Date: 20.MAY.2026 13:41:14

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

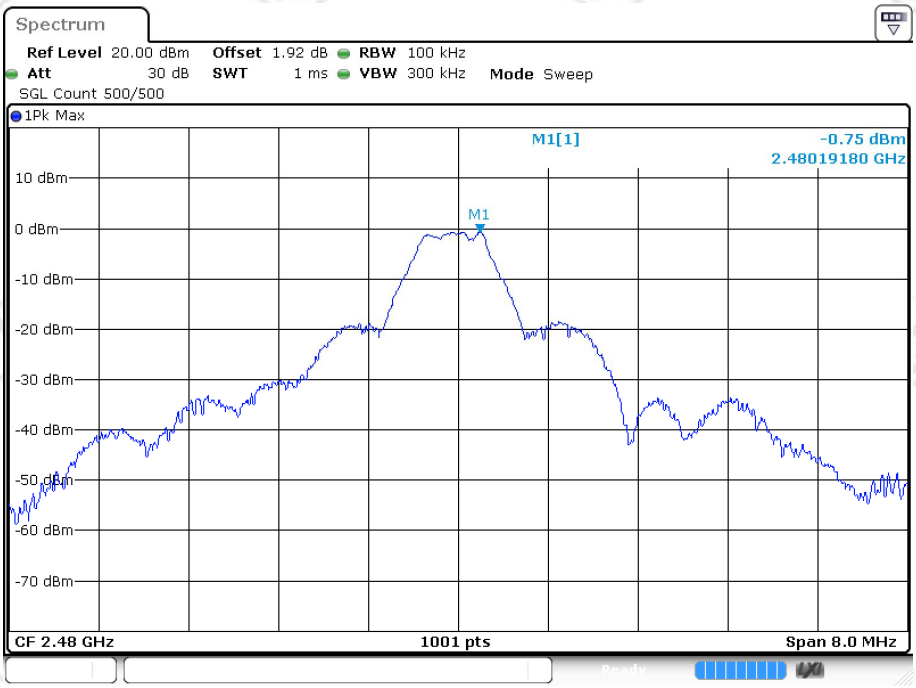


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40195 GHz	0.28 dBm		
M2		1	2.4 GHz	-33.30 dBm		
M3		1	2.4 GHz	-33.30 dBm		
M4		1	2.4 GHz	-33.30 dBm		

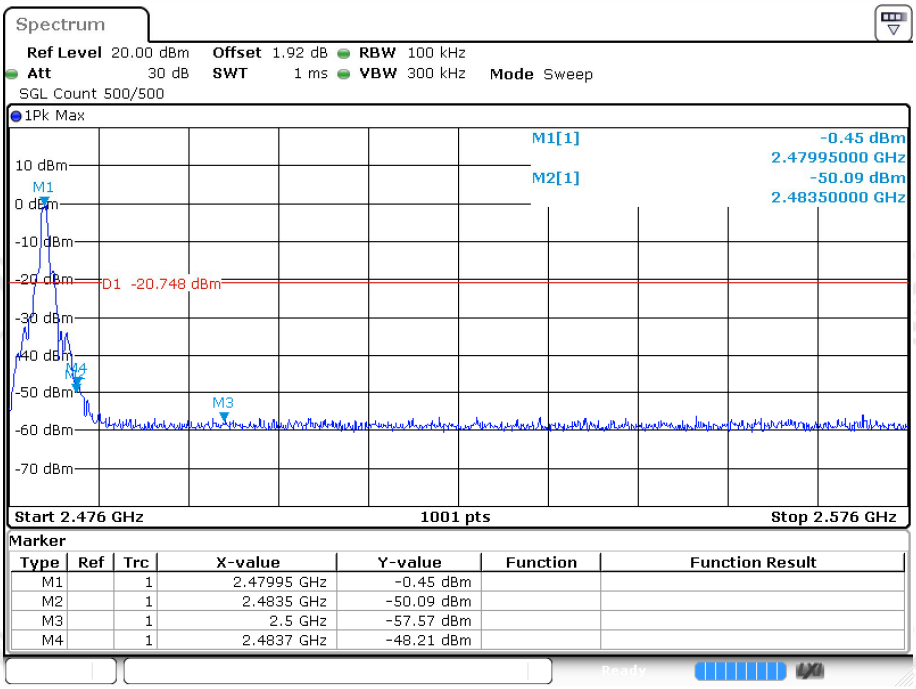
Date: 20.MAY.2026 13:41:17

Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Date: 20.MAY.2026 13:45:47

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47995 GHz	-0.45 dBm		
M2		1	2.4835 GHz	-50.09 dBm		
M3		1	2.5 GHz	-57.57 dBm		
M4		1	2.4837 GHz	-48.21 dBm		

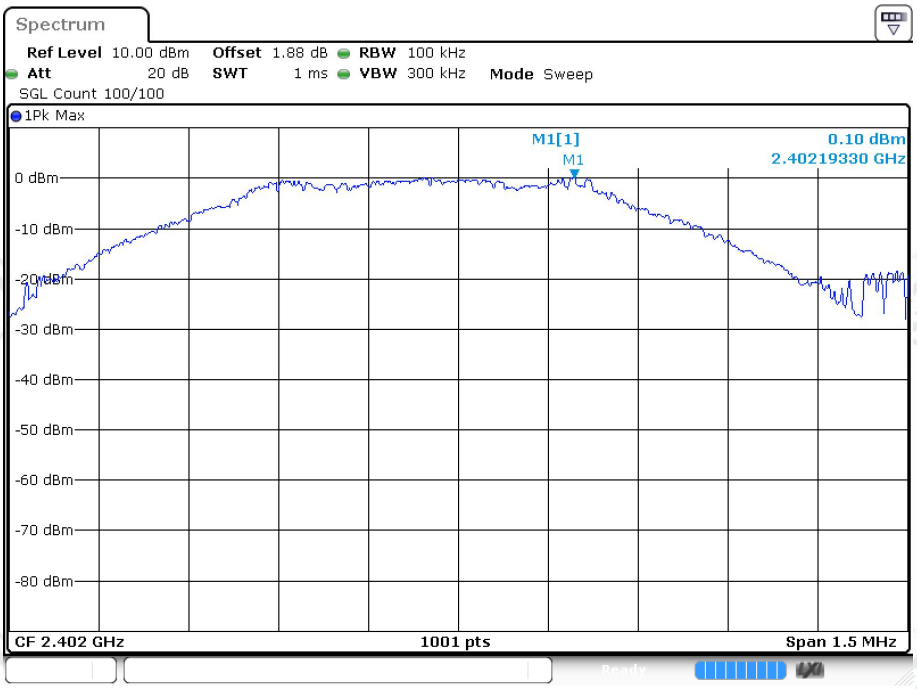
Date: 20.MAY.2026 13:45:49

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-31.3	-20	Pass
NVNT	BLE 1M	2440	Ant1	-33.18	-20	Pass
NVNT	BLE 1M	2480	Ant1	-31.57	-20	Pass

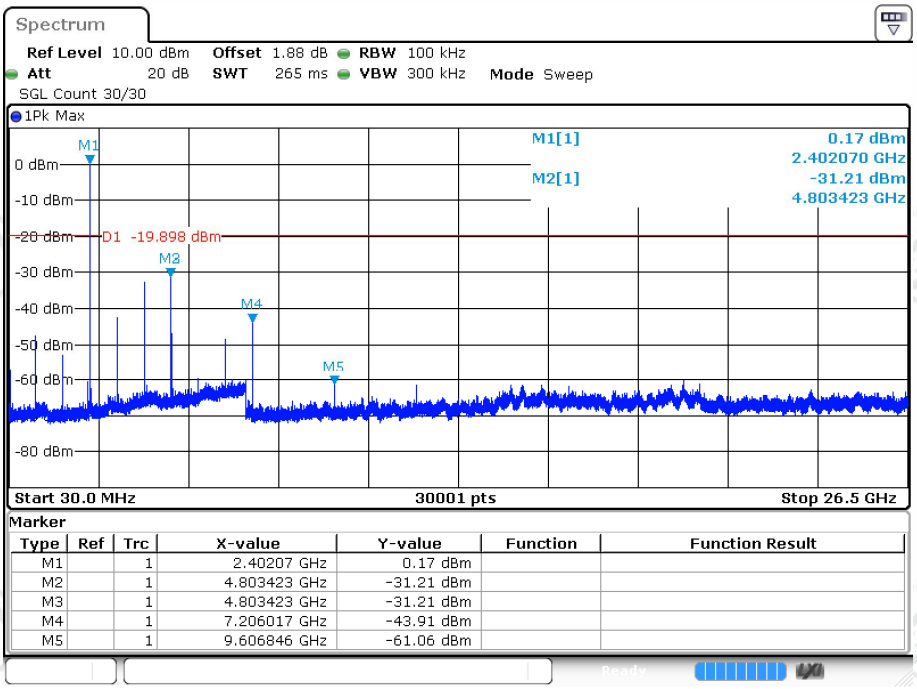
Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Date: 20.MAY.2026 13:41:20

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

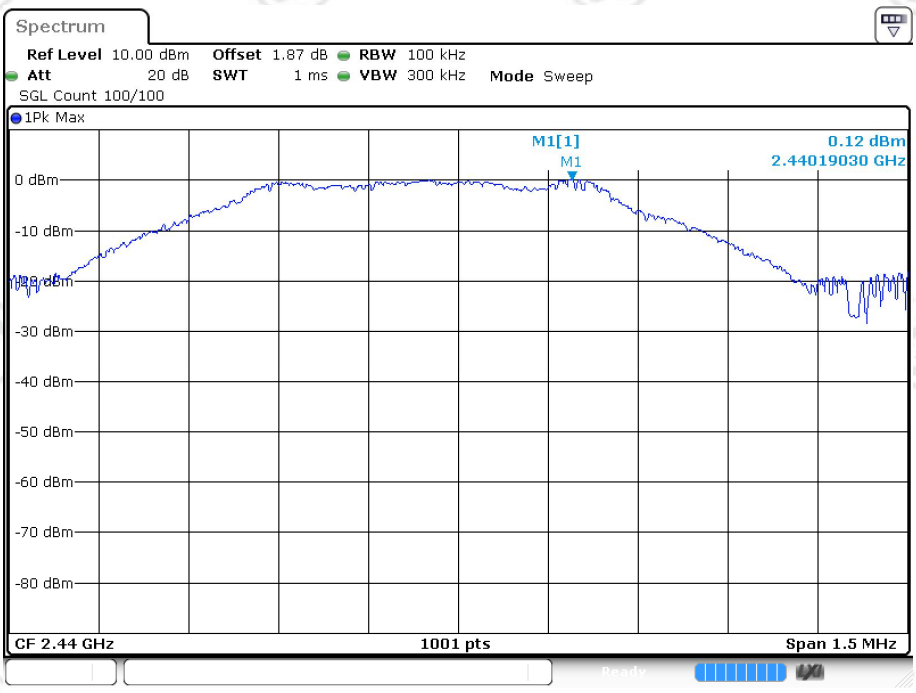


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	0.17 dBm		
M2		1	4.803423 GHz	-31.21 dBm		
M3		1	4.803423 GHz	-31.21 dBm		
M4		1	7.206017 GHz	-43.91 dBm		
M5		1	9.606846 GHz	-61.06 dBm		

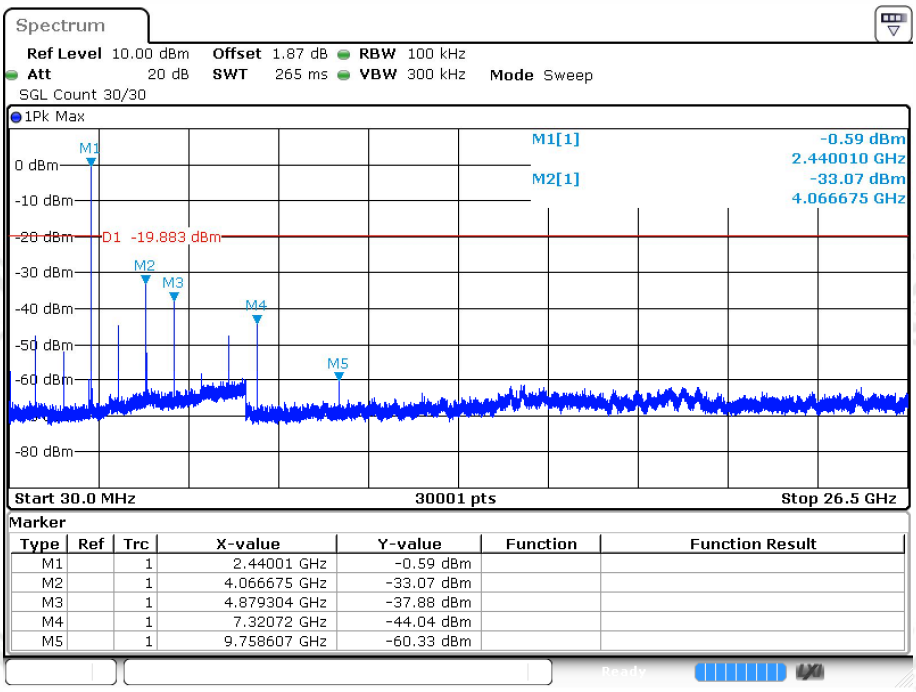
Date: 20.MAY.2026 13:41:49

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Date: 20.MAY.2026 13:46:46

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

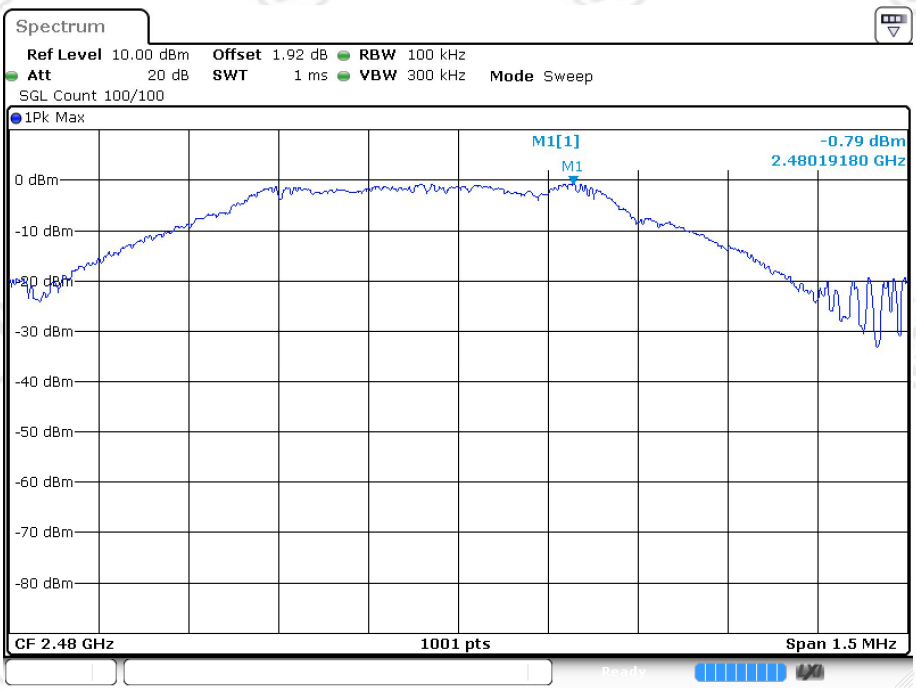


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44001 GHz	-0.59 dBm		
M2		1	4.066675 GHz	-33.07 dBm		
M3		1	4.879304 GHz	-37.88 dBm		
M4		1	7.32072 GHz	-44.04 dBm		
M5		1	9.758607 GHz	-60.33 dBm		

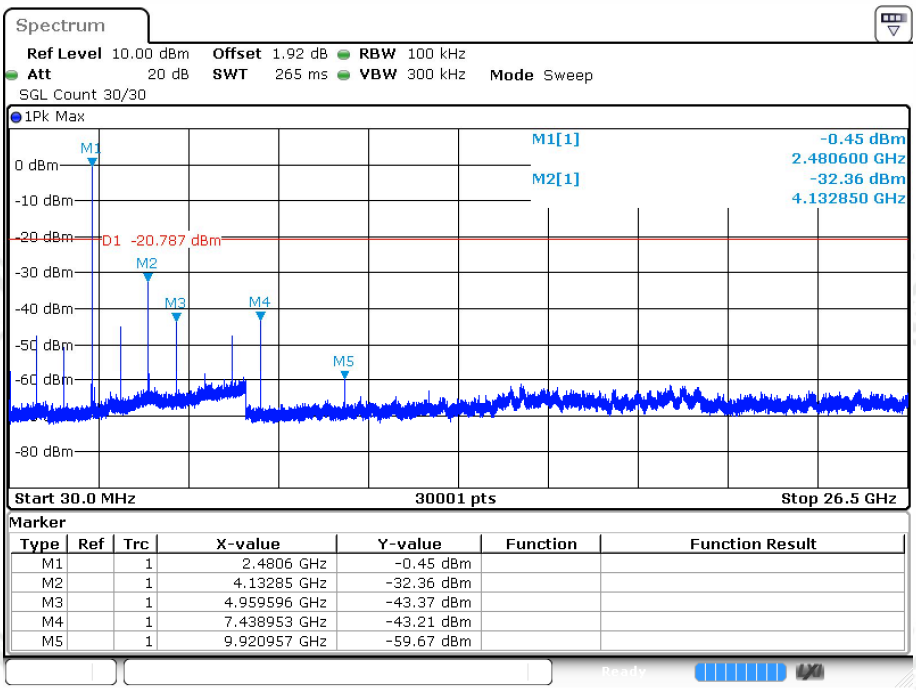
Date: 20.MAY.2026 13:47:15

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Date: 20.MAY.2026 13:45:52

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4806 GHz	-0.45 dBm		
M2		1	4.13285 GHz	-32.36 dBm		
M3		1	4.959596 GHz	-43.37 dBm		
M4		1	7.438953 GHz	-43.21 dBm		
M5		1	9.920957 GHz	-59.67 dBm		

Date: 20.MAY.2026 13:46:22

*** End of Report ***