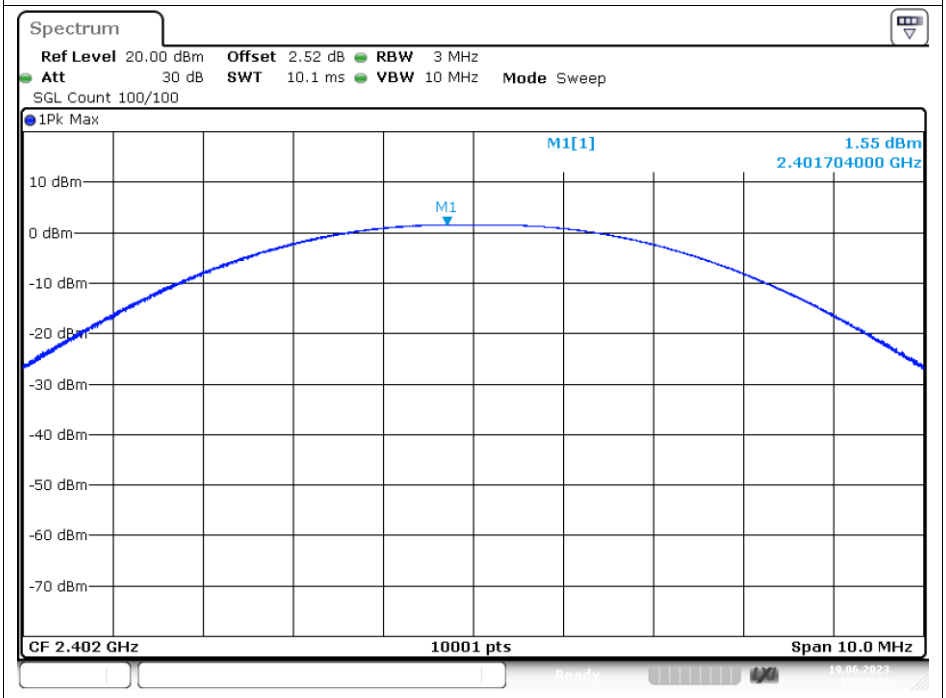
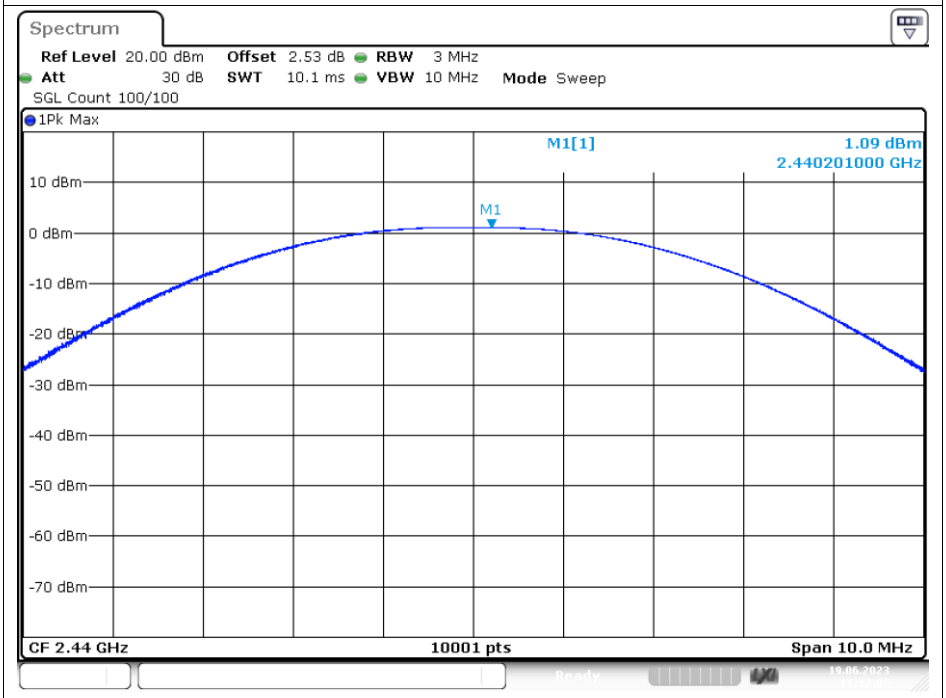
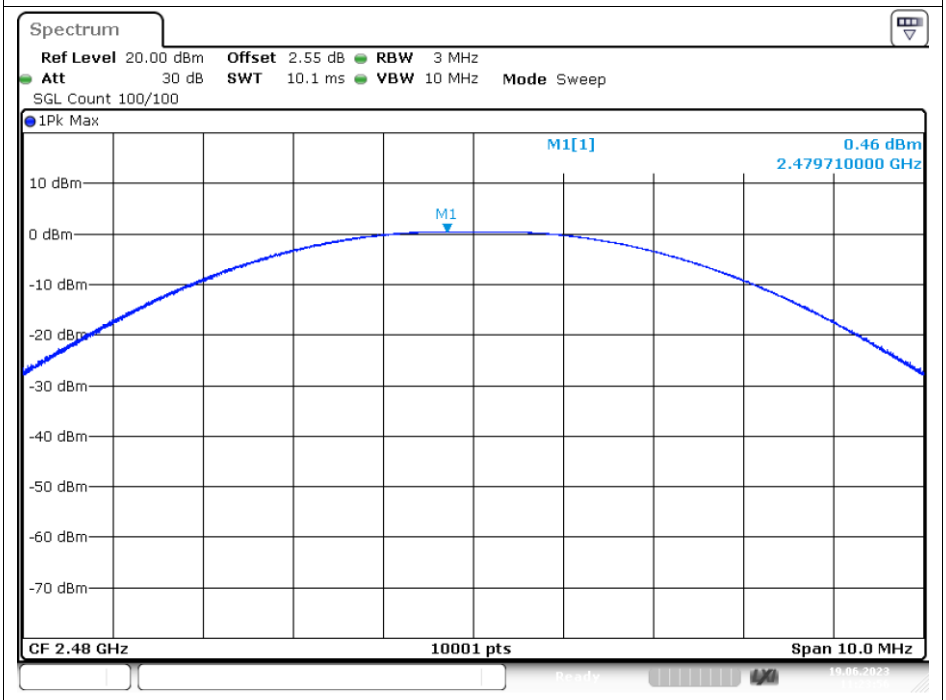
Appendix B

7.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	E.I.R.P (dBm)	E.I.R.P Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	1.55	0	1.55	30	3.97	<=36.02	Pass
NVNT	BLE 1M	2440	Ant1	1.09	0	1.09	30	3.51	<=36.02	Pass
NVNT	BLE 1M	2480	Ant1	0.46	0	0.46	30	2.88	<=36.02	Pass
Note1: Antenna Gain: 2.42dBi; Note2: E.I.R.P = Measured Power + Antenna Gain										

Test Graphs
Power NVNT BLE 1M 2402MHz Ant1
 Date: 19.JUN.2023 11:20:18
Power NVNT BLE 1M 2440MHz Ant1
 Date: 19.JUN.2023 11:22:01

Power NVNT BLE 1M 2480MHz Ant1

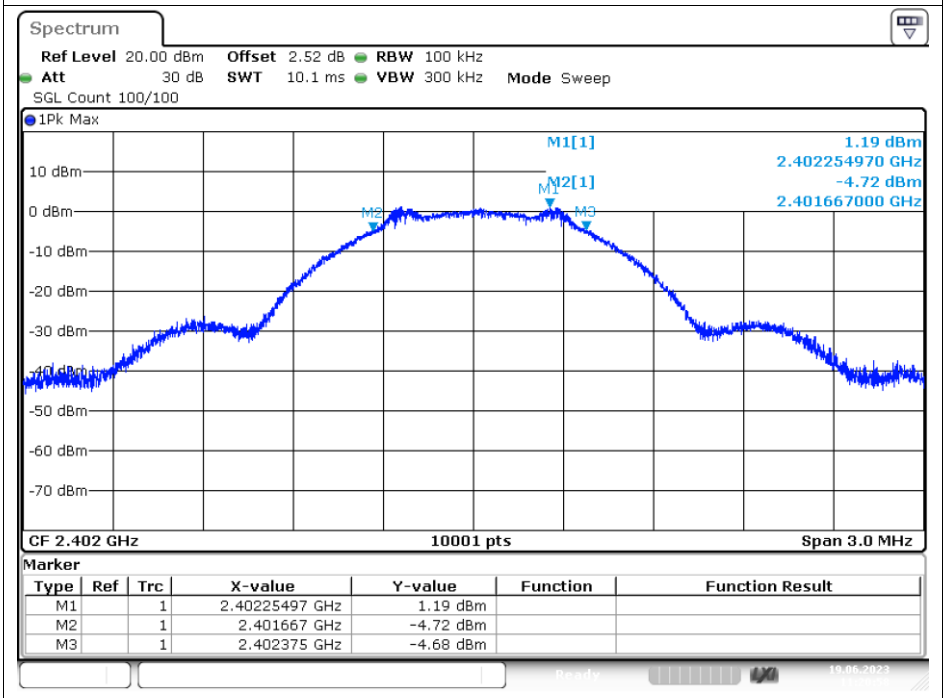


7.2 -6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	BLE 1M	2402	Ant1	0.708	0.5	Pass
NVNT	BLE 1M	2440	Ant1	0.721	0.5	Pass
NVNT	BLE 1M	2480	Ant1	0.745	0.5	Pass

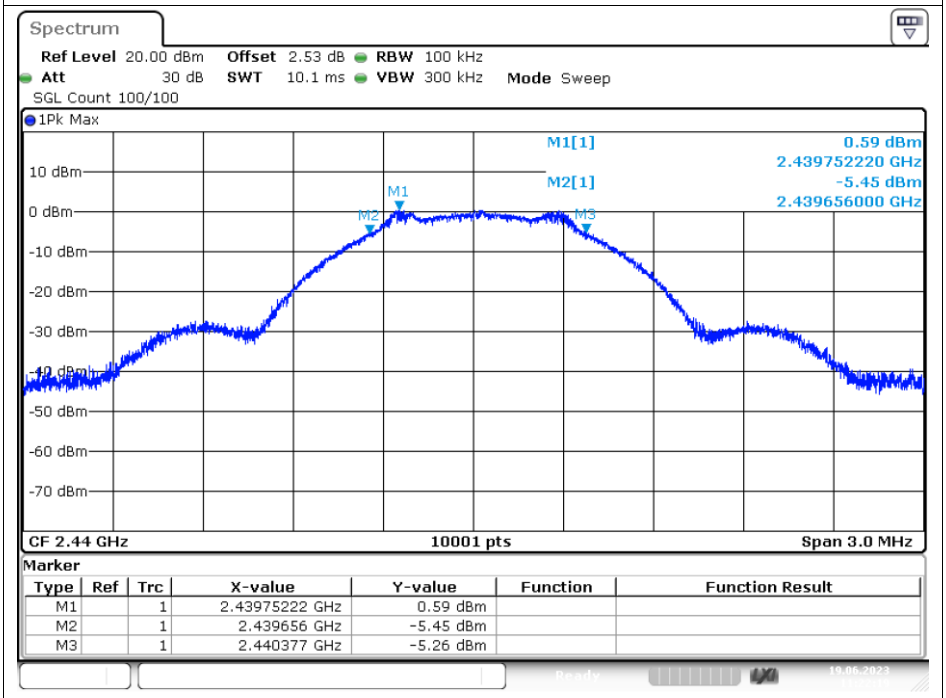
Test Graphs

-6dB Bandwidth NVNT BLE 1M 2402MHz Ant1



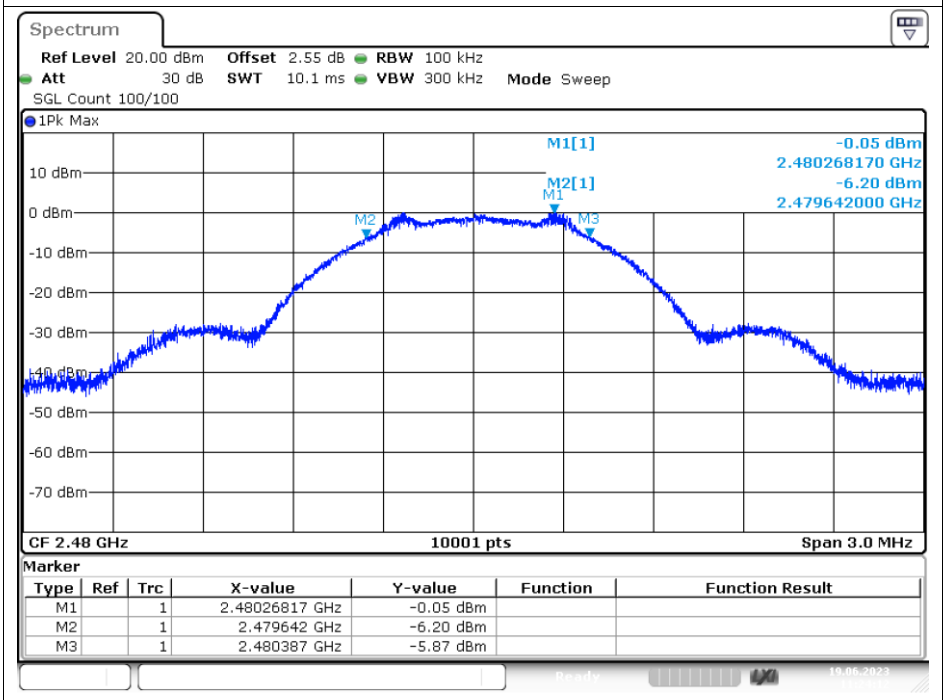
Date: 19.JUN.2023 11:20:58

-6dB Bandwidth NVNT BLE 1M 2440MHz Ant1



Date: 19.JUN.2023 11:22:18

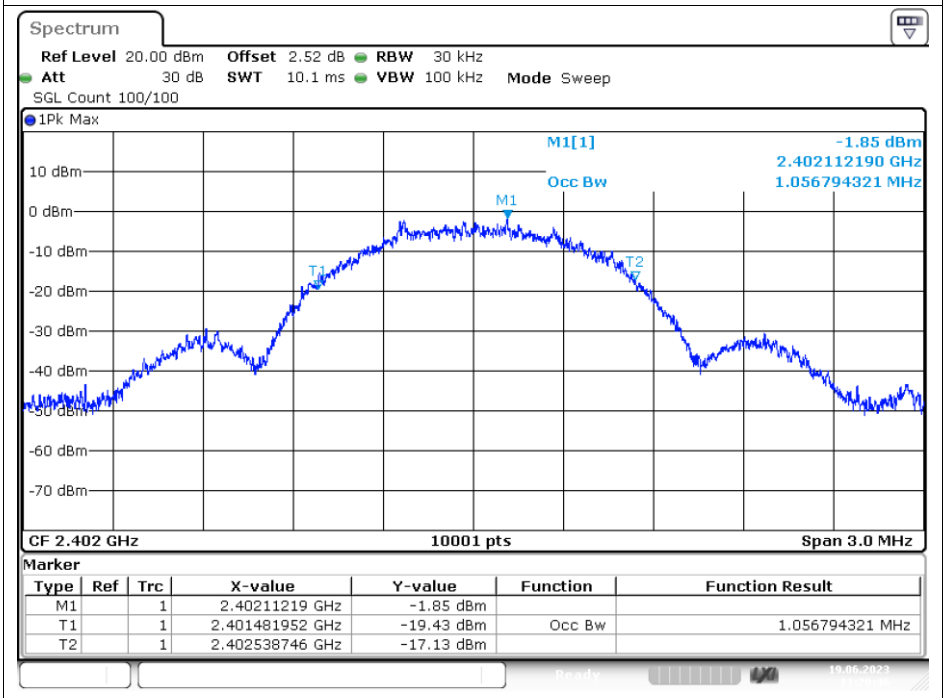
-6dB Bandwidth NVNT BLE 1M 2480MHz Ant1



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	BLE 1M	2402	Ant1	1.057
NVNT	BLE 1M	2440	Ant1	1.066
NVNT	BLE 1M	2480	Ant1	1.071

Test Graphs
OBW NVNT BLE 1M 2402MHz Ant1



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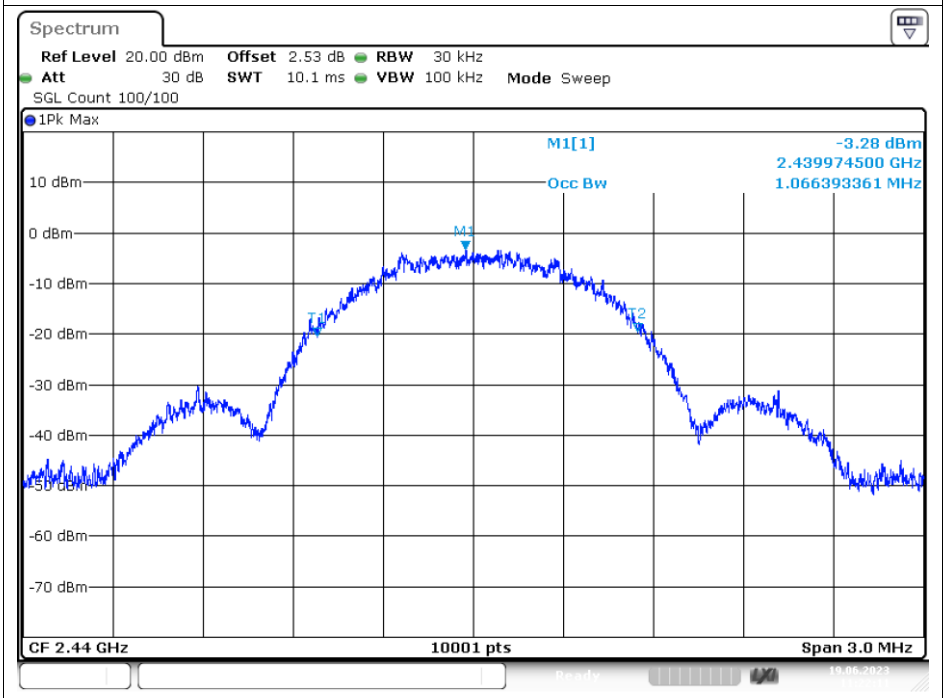
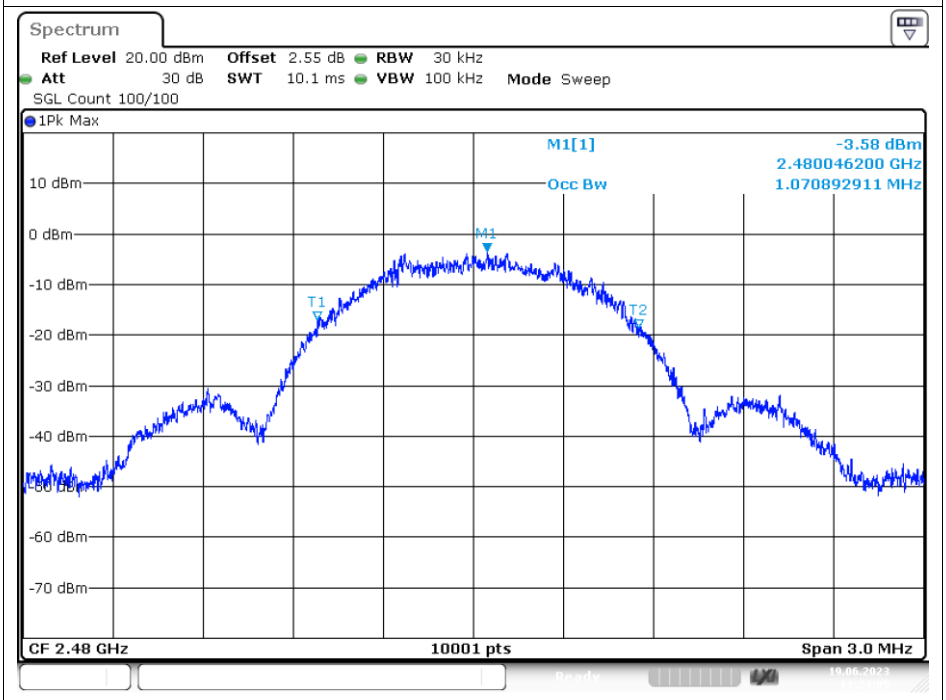


Date: 19.JUN.2023 11:22:11

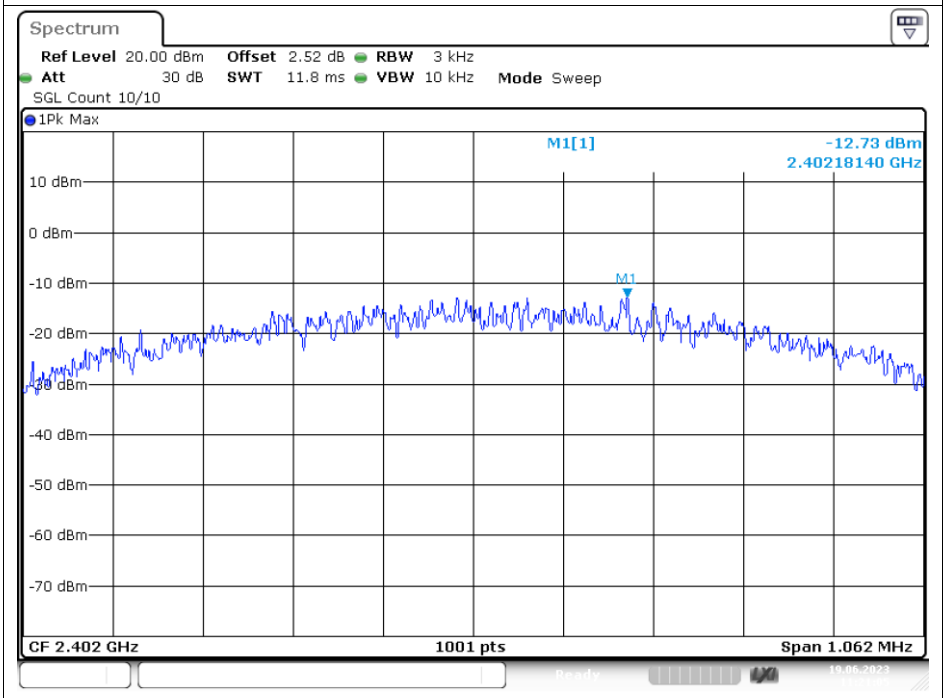
OBW NVNT BLE 1M 2480MHz Ant1



7.3 Maximum Power Spectral Density Level

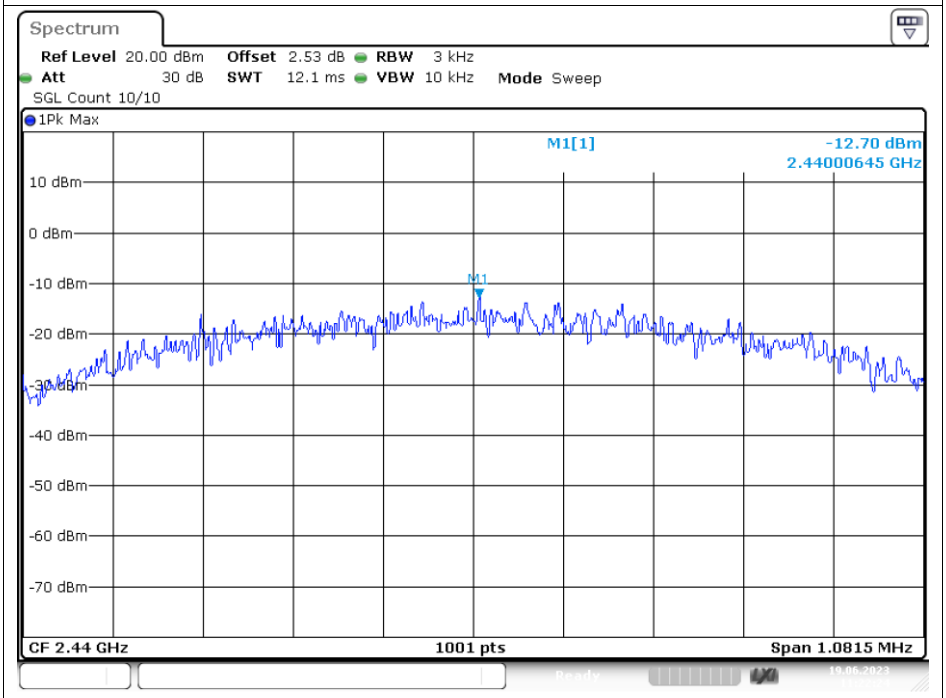
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	BLE 1M	2402	Ant1	-12.73	0	-12.73	8	Pass
NVNT	BLE 1M	2440	Ant1	-12.7	0	-12.7	8	Pass
NVNT	BLE 1M	2480	Ant1	-14.72	0	-14.72	8	Pass

Test Graphs
PSD NVNT BLE 1M 2402MHz Ant1



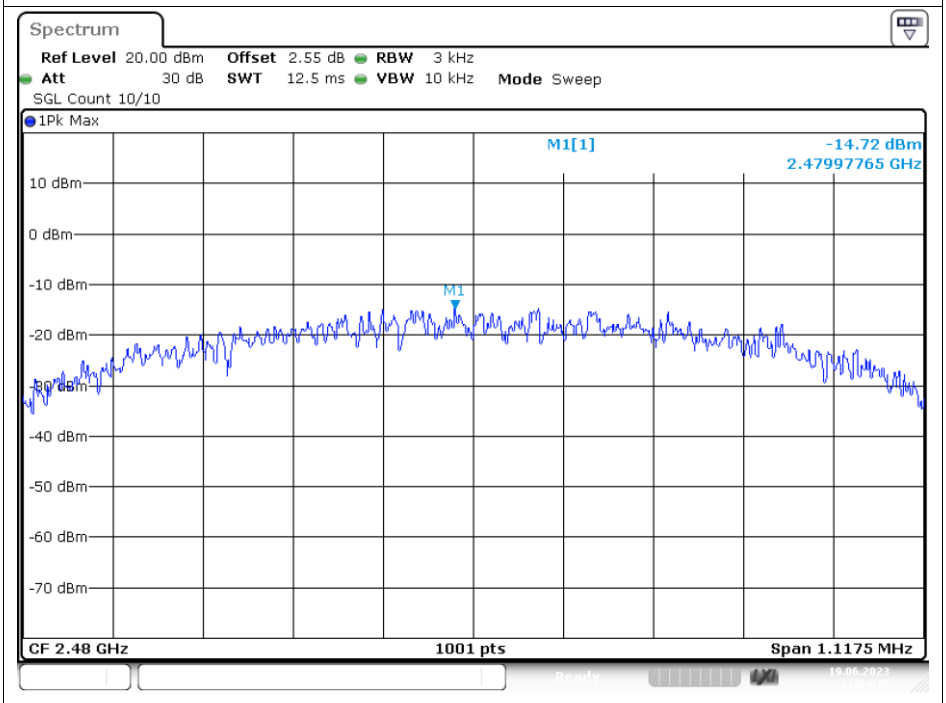
Date: 19.JUN.2023 11:21:05

PSD NVNT BLE 1M 2440MHz Ant1



Date: 19.JUN.2023 11:22:23

PSD NVNT BLE 1M 2480MHz Ant1

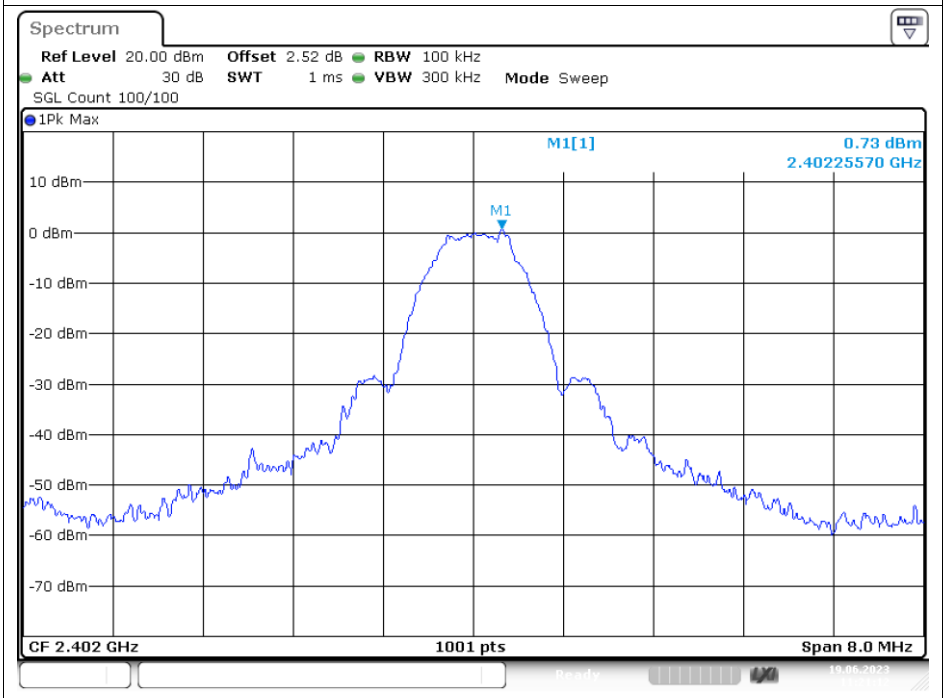


7.4 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-48.3	-20	Pass
NVNT	BLE 1M	2480	Ant1	-54.4	-20	Pass

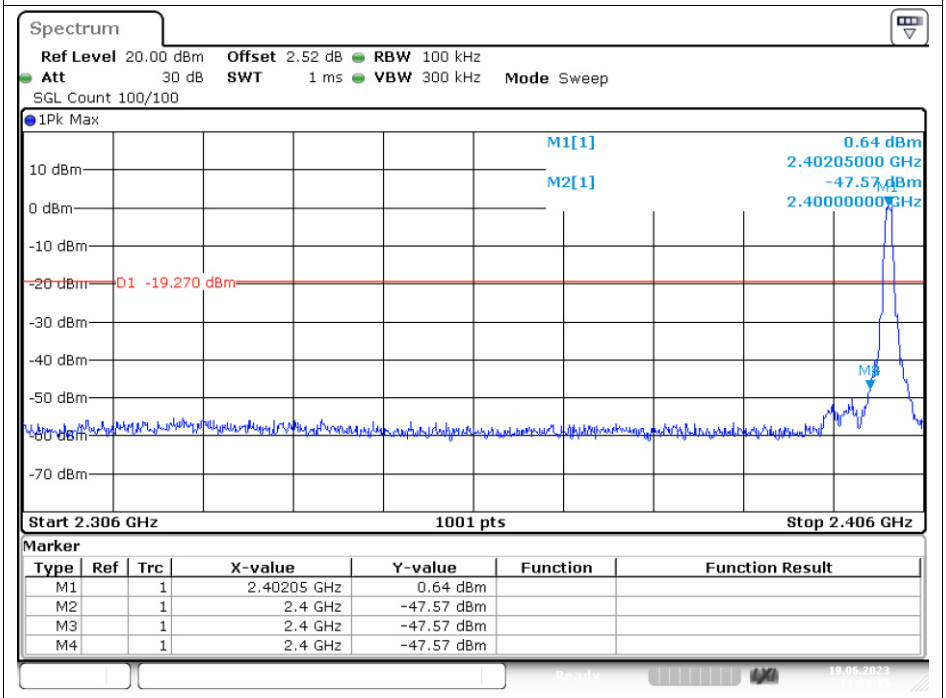
Test Graphs

Band Edge NVNT BLE 1M 2402MHz Ant1 Ref



Date: 19.JUN.2023 11:21:12

Band Edge NVNT BLE 1M 2402MHz Ant1 Emission

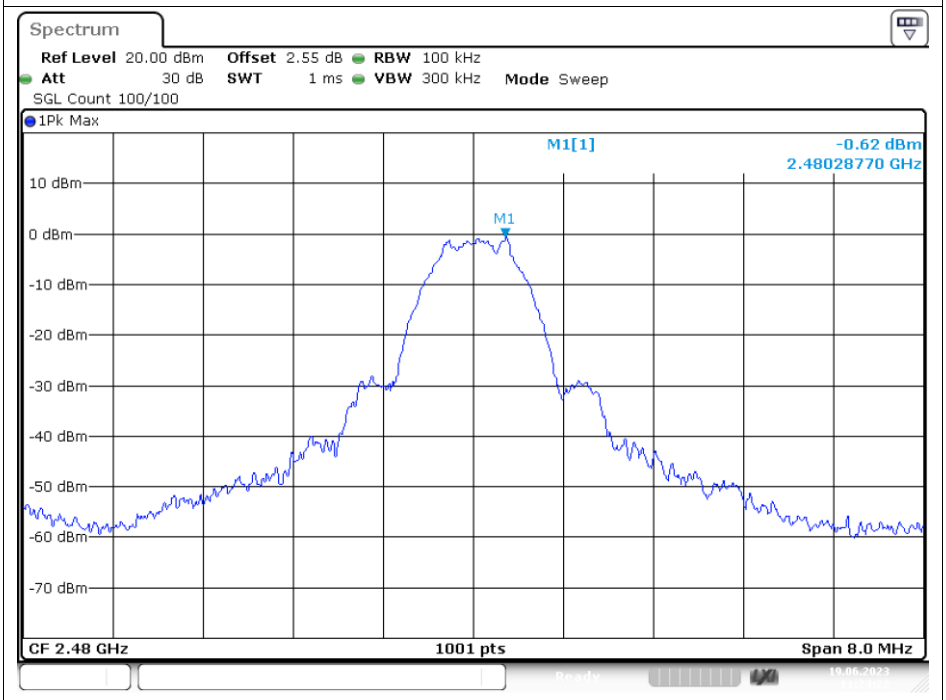


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	0.64 dBm		
M2		1	2.4 GHz	-47.57 dBm		
M3		1	2.4 GHz	-47.57 dBm		
M4		1	2.4 GHz	-47.57 dBm		

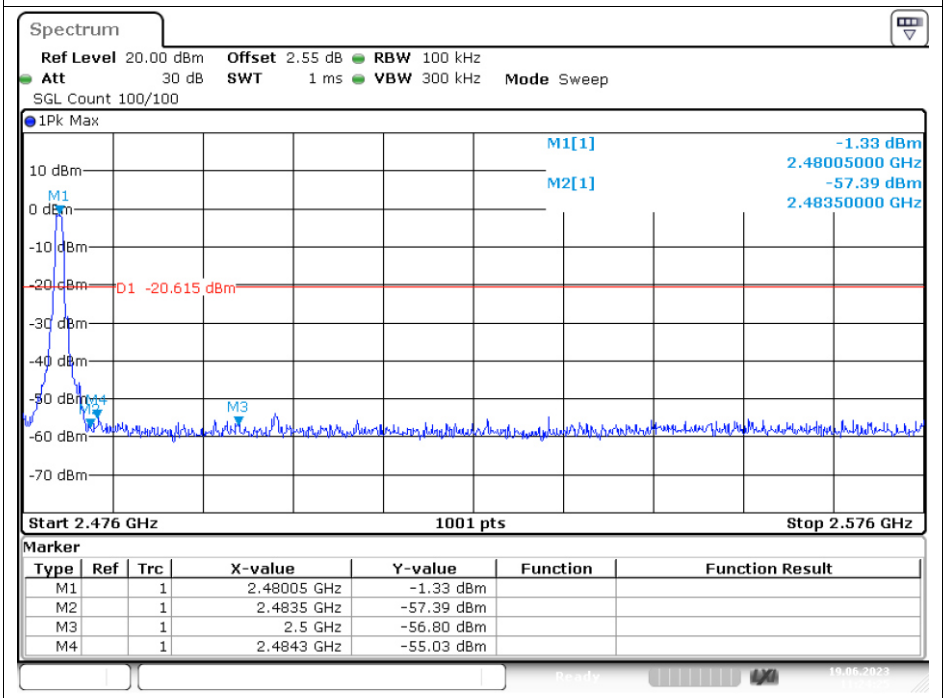
Date: 19.JUN.2023 11:21:16

Band Edge NVNT BLE 1M 2480MHz Ant1 Ref



Date: 19.JUN.2023 11:24:22

Band Edge NVNT BLE 1M 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48005 GHz	-1.33 dBm		
M2		1	2.4835 GHz	-57.39 dBm		
M3		1	2.5 GHz	-56.80 dBm		
M4		1	2.4843 GHz	-55.03 dBm		

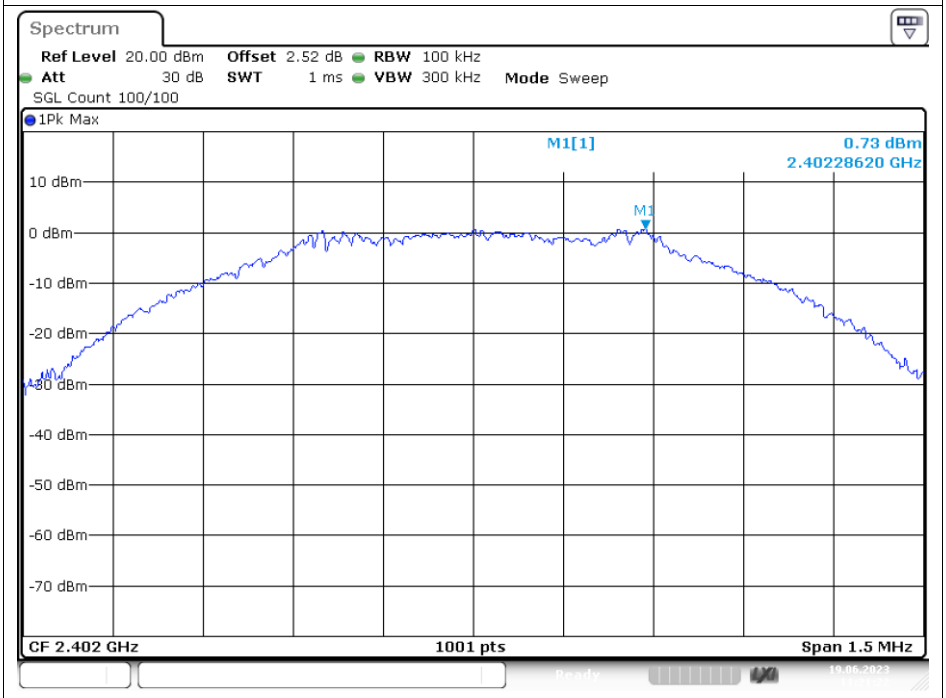
Date: 19.JUN.2023 11:24:25

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	BLE 1M	2402	Ant1	-50.65	-20	Pass
NVNT	BLE 1M	2440	Ant1	-50.71	-20	Pass
NVNT	BLE 1M	2480	Ant1	-50.01	-20	Pass

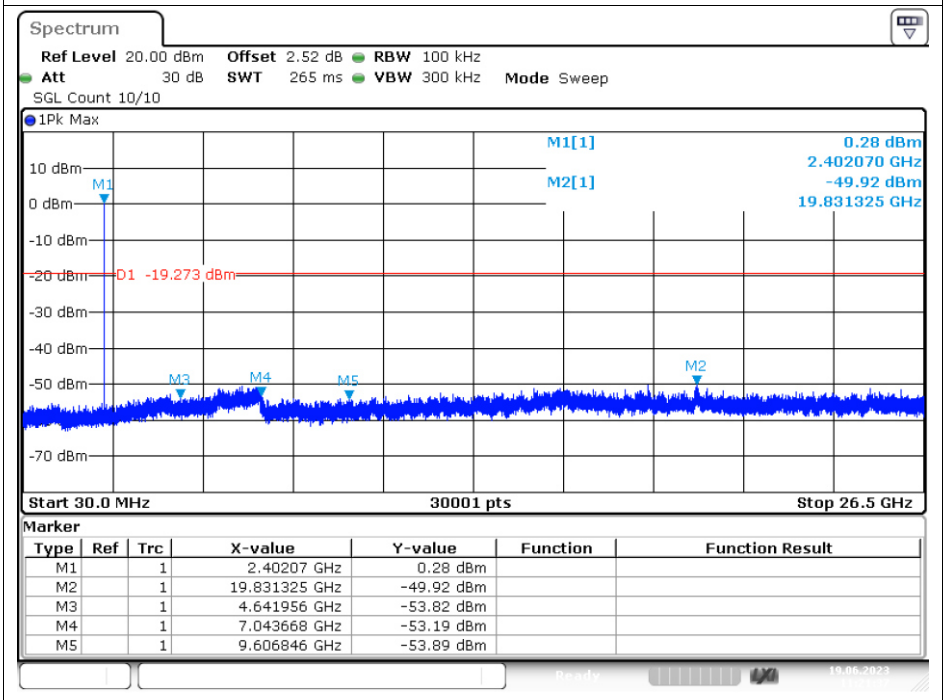
Test Graphs

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Ref



Date: 19.JUN.2023 11:21:22

Tx. Spurious NVNT BLE 1M 2402MHz Ant1 Emission

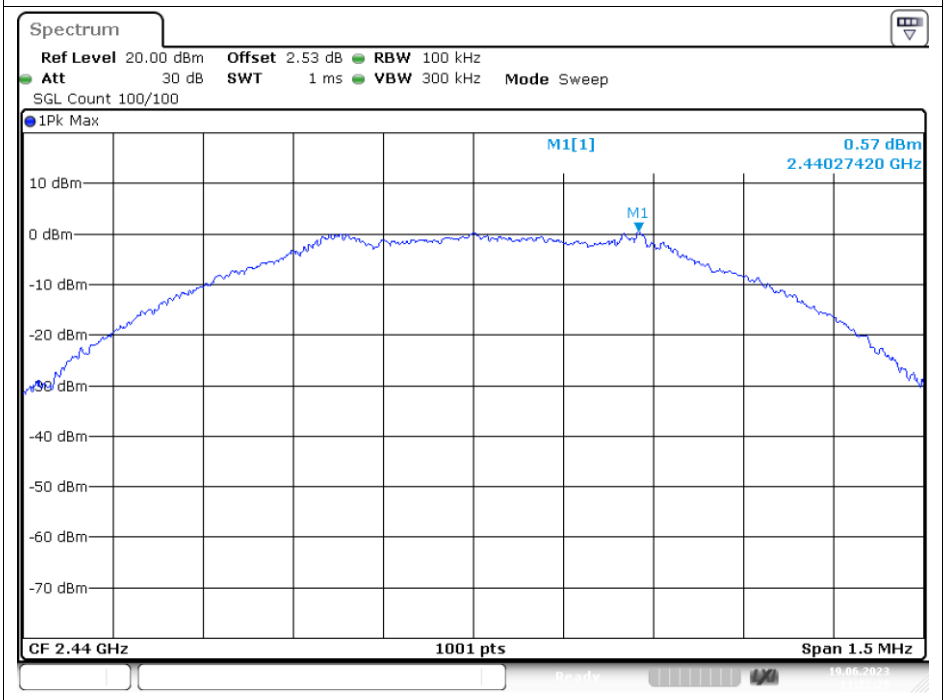


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40207 GHz	0.28 dBm		
M2		1	19.831325 GHz	-49.92 dBm		
M3		1	4.641956 GHz	-53.82 dBm		
M4		1	7.043668 GHz	-53.19 dBm		
M5		1	9.606846 GHz	-53.89 dBm		

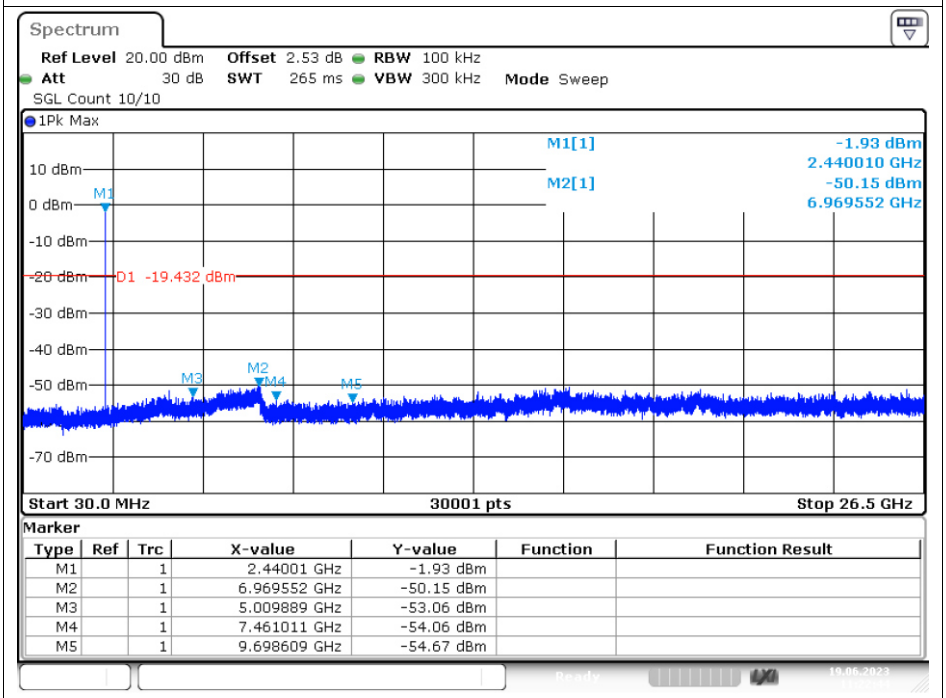
Date: 19.JUN.2023 11:21:37

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Ref



Date: 19.JUN.2023 11:22:28

Tx. Spurious NVNT BLE 1M 2440MHz Ant1 Emission

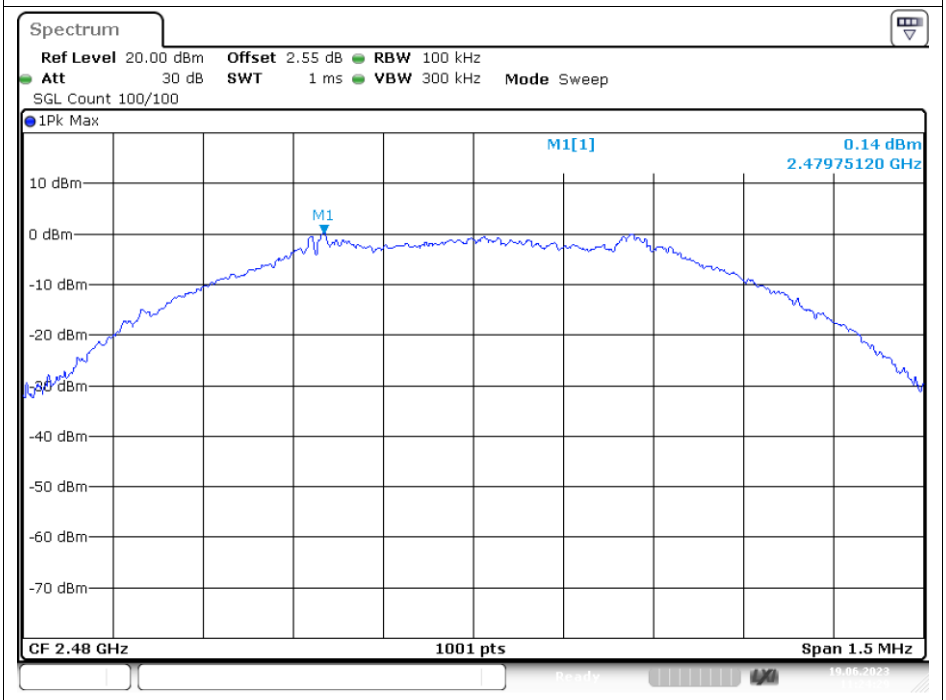


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44001 GHz	-1.93 dBm		
M2		1	6.969552 GHz	-50.15 dBm		
M3		1	5.009889 GHz	-53.06 dBm		
M4		1	7.461011 GHz	-54.06 dBm		
M5		1	9.698609 GHz	-54.67 dBm		

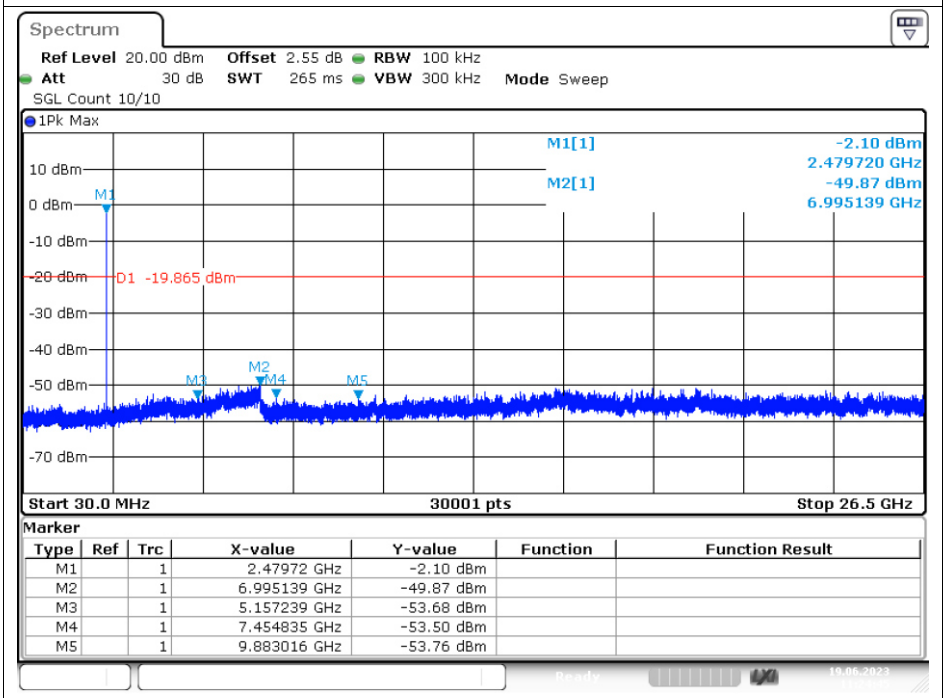
Date: 19.JUN.2023 11:22:43

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Ref



Date: 19.JUN.2023 11:24:30

Tx. Spurious NVNT BLE 1M 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47972 GHz	-2.10 dBm		
M2		1	6.995139 GHz	-49.87 dBm		
M3		1	5.157239 GHz	-53.68 dBm		
M4		1	7.454835 GHz	-53.50 dBm		
M5		1	9.883016 GHz	-53.76 dBm		

Date: 19.JUN.2023 11:24:45

7.5 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