Appendix C

Duty Cycle

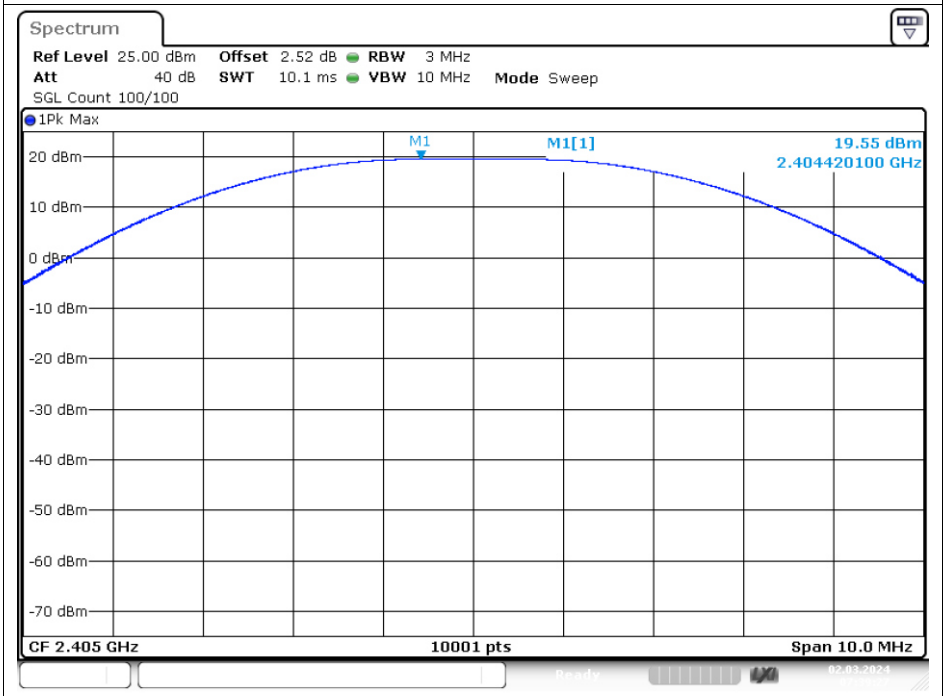
Condition	Mode	Frequency (MHz)	Antenna	On Time (ms)	Period (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)	Final settingFor VBW (kHz)
NVNT	802.15.4	2405	Ant1	0	0	100	0	0	1
NVNT	802.15.4	2440	Ant1	0	0	100	0	0	1
NVNT	802.15.4	2480	Ant1	0	0	100	0	0	1

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	802.15.4	2405	Ant1	19.55	0	19.55	30	20.55	<=36.02	Pass
NVNT	802.15.4	2440	Ant1	19.59	0	19.59	30	20.59	<=36.02	Pass
NVNT	802.15.4	2480	Ant1	19.53	0	19.53	30	20.53	<=36.02	Pass
Note1: Antenna Gain: 1 dBi; Note2: E.I.R.P = Measured Power + Antenna Gain										

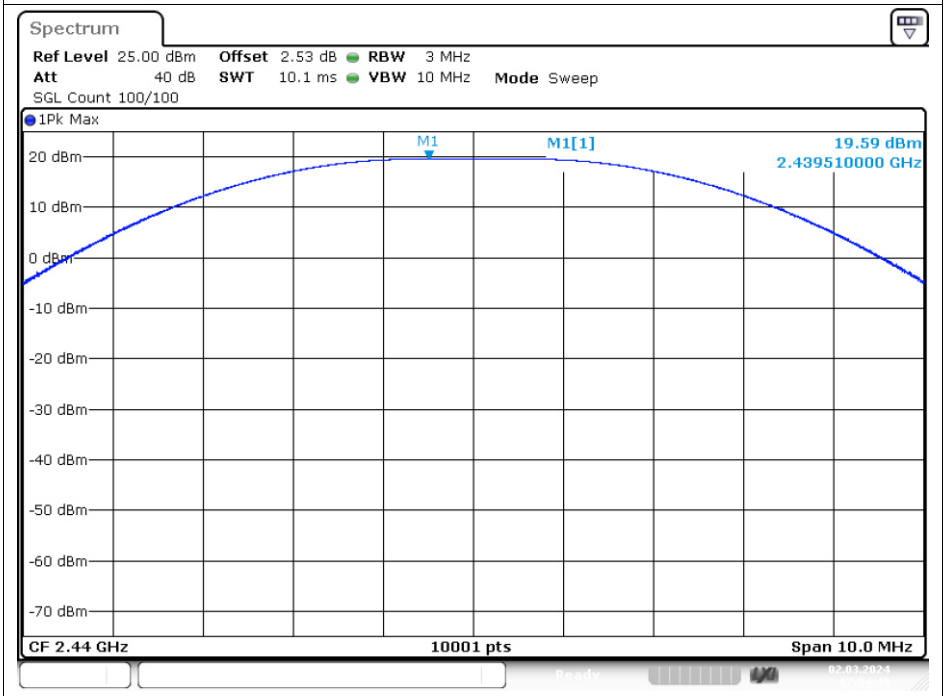
Test Graphs

Power NVNT 802.15.4 2405MHz Ant1



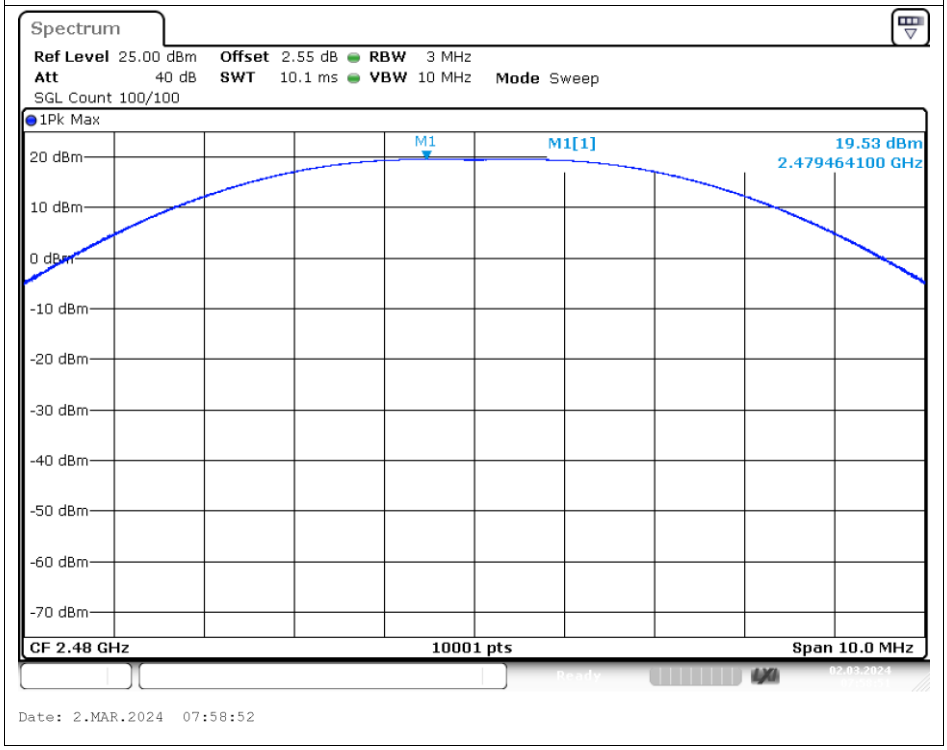
Date: 2.MAR.2024 07:39:26

Power NVNT 802.15.4 2440MHz Ant1



Date: 2.MAR.2024 07:54:49

Power NVNT 802.15.4 2480MHz Ant1

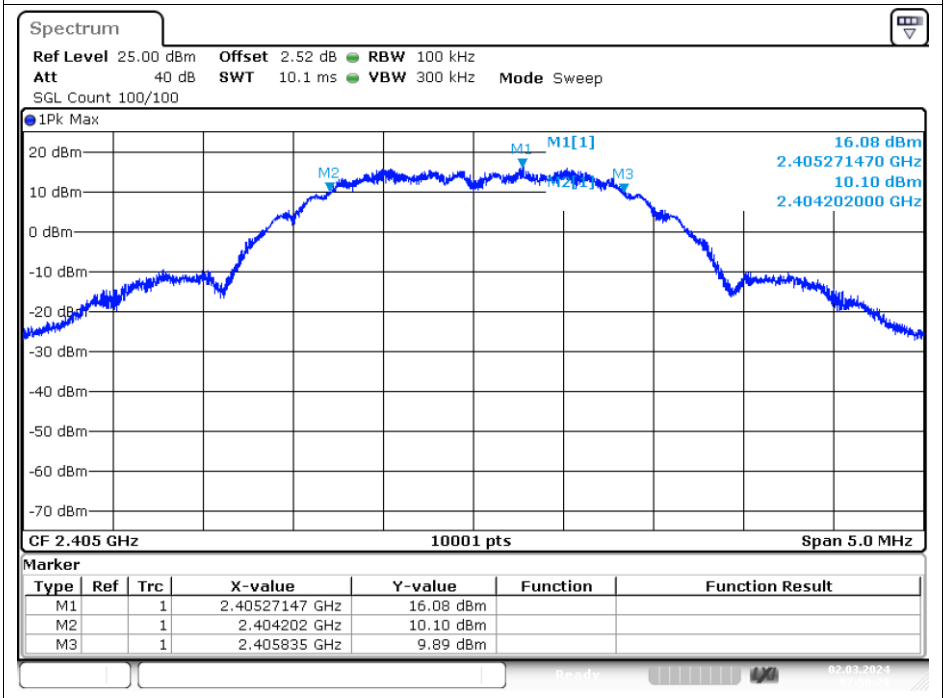


-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.15.4	2405	Ant1	1.63	0.5	Pass
NVNT	802.15.4	2440	Ant1	1.63	0.5	Pass
NVNT	802.15.4	2480	Ant1	1.63	0.5	Pass

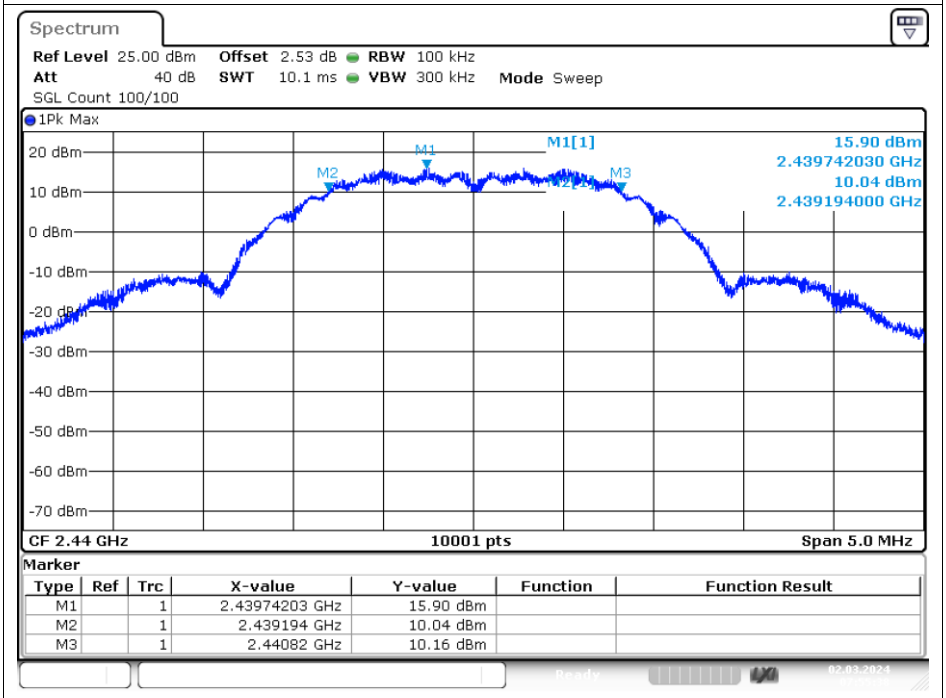
Test Graphs

-6dB Bandwidth NVNT 802.15.4 2405MHz Ant1



Date: 2.MAR.2024 07:50:28

-6dB Bandwidth NVNT 802.15.4 2440MHz Ant1



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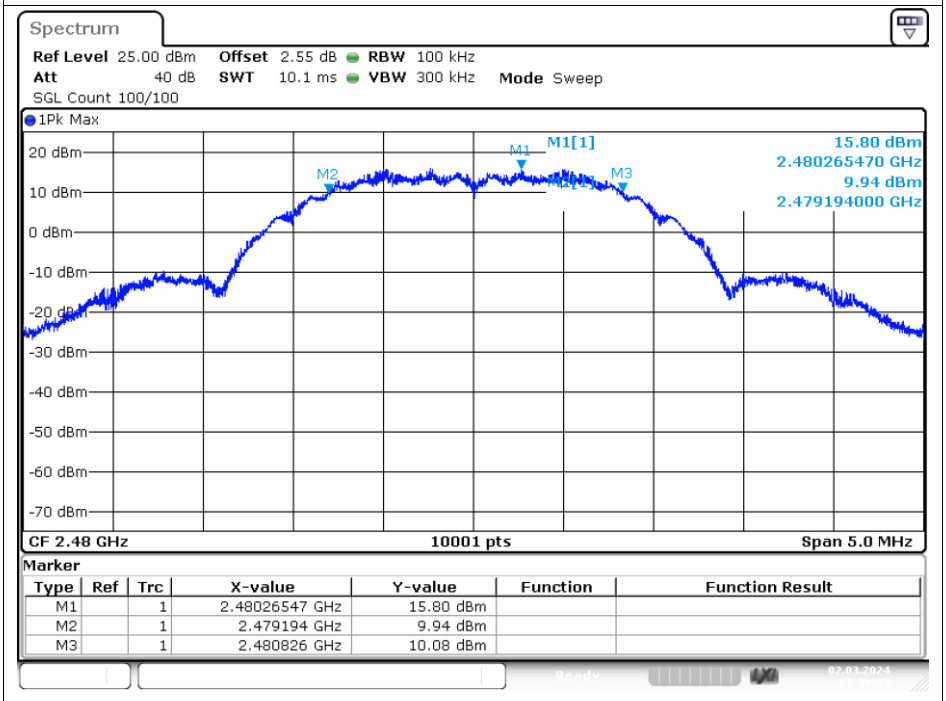
-6dB Bandwidth NVNT 802.15.4 2480MHz Ant1

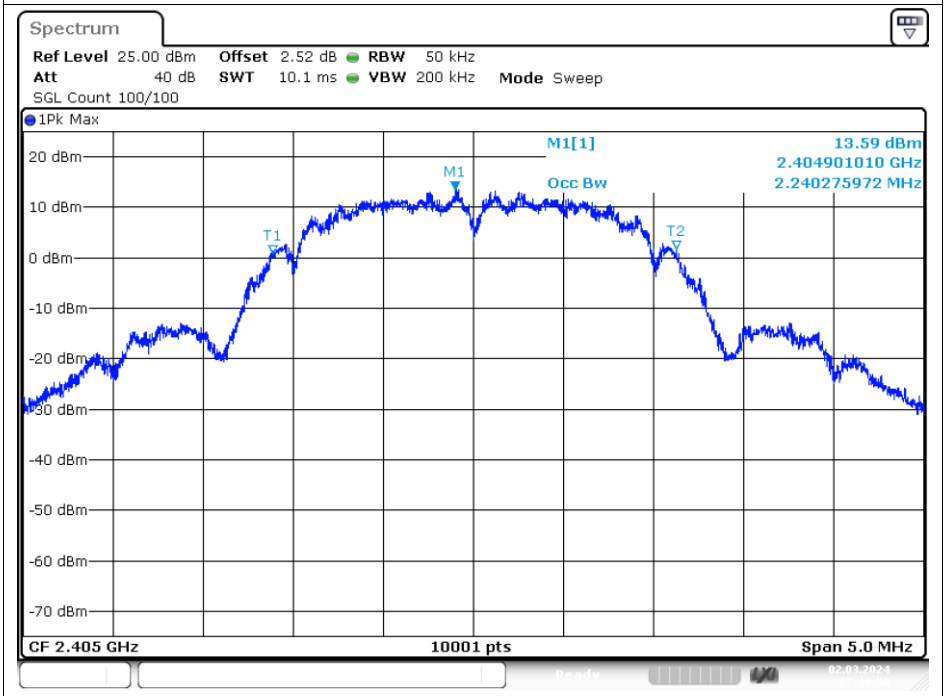


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	802.15.4	2405	Ant1	2.24
NVNT	802.15.4	2440	Ant1	2.238
NVNT	802.15.4	2480	Ant1	2.243

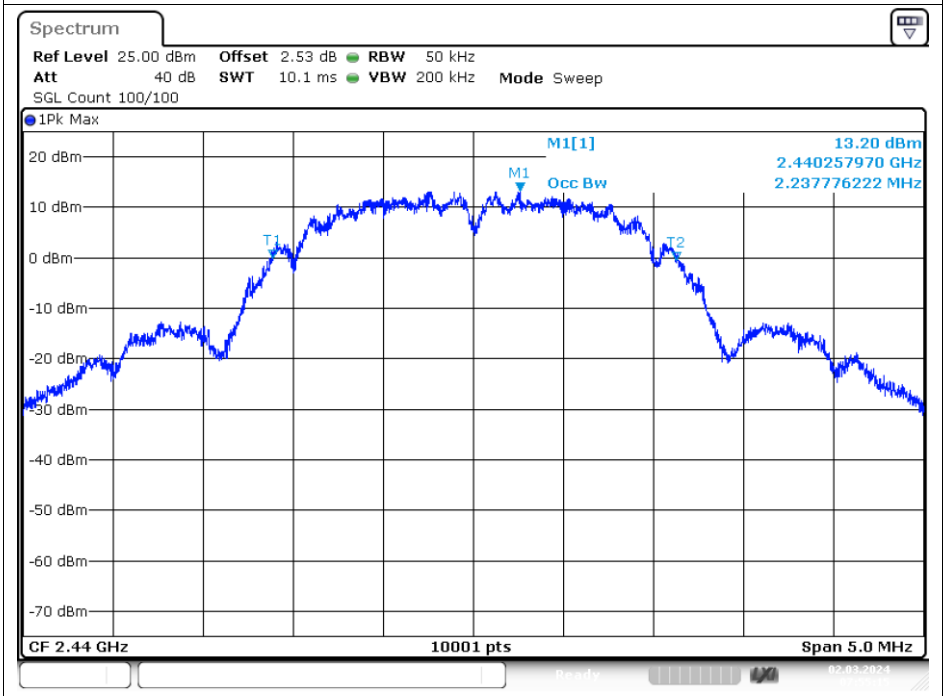
Test Graphs

OBW NVNT 802.15.4 2405MHz Ant1



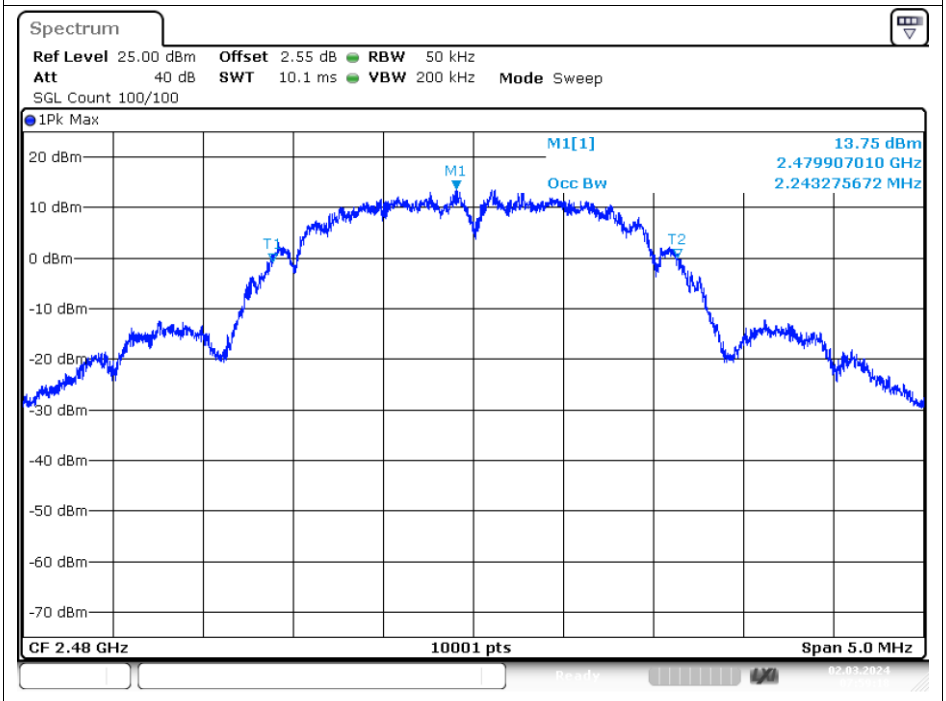
Date: 2.MAR.2024 07:39:50

OBW NVNT 802.15.4 2440MHz Ant1



Date: 2.MAR.2024 07:55:16

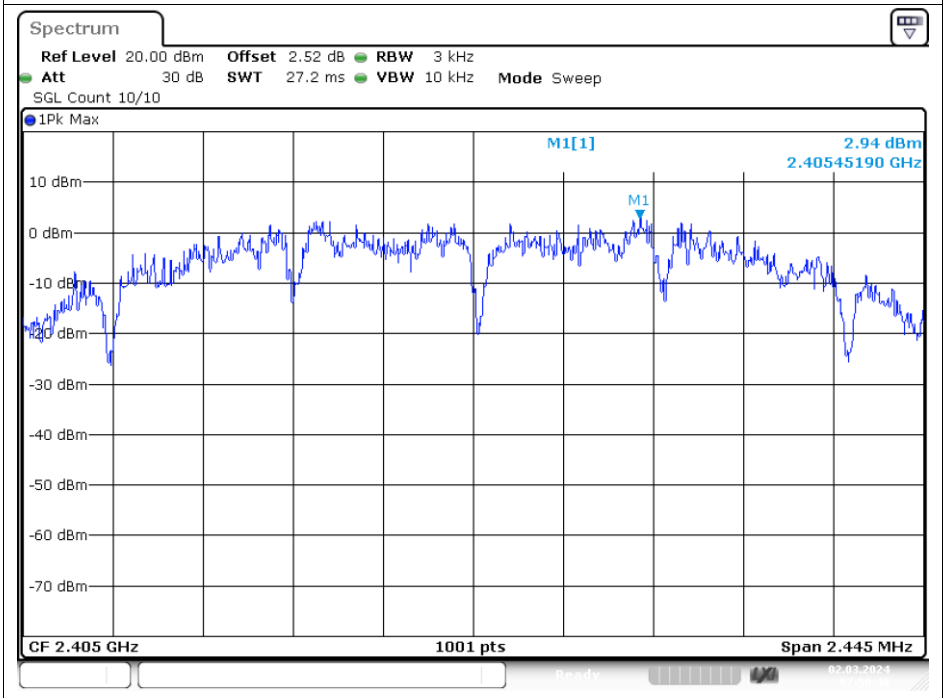
OBW NVNT 802.15.4 2480MHz Ant1



Maximum Power Spectral Density Level

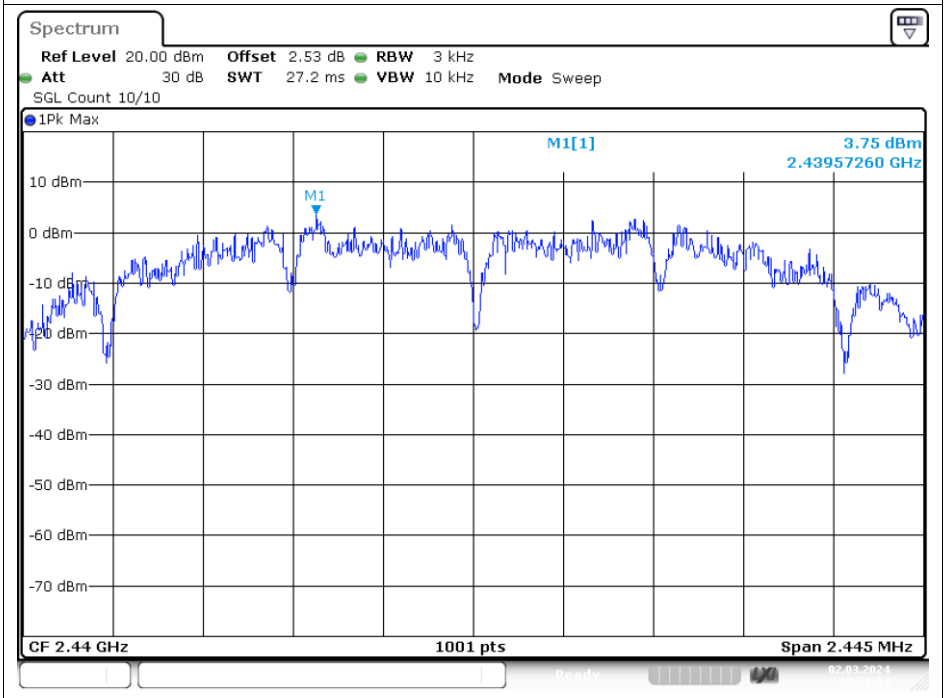
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	802.15.4	2405	Ant1	2.94	0	2.94	8	Pass
NVNT	802.15.4	2440	Ant1	3.75	0	3.75	8	Pass
NVNT	802.15.4	2480	Ant1	3.06	0	3.06	8	Pass

Test Graphs
PSD NVNT 802.15.4 2405MHz Ant1



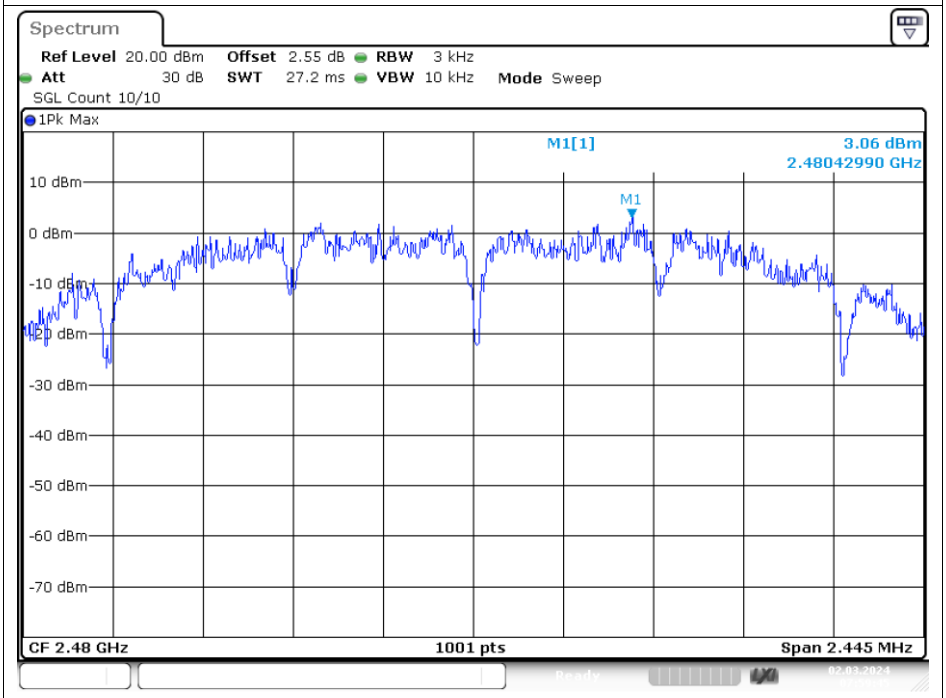
Date: 2.MAR.2024 07:50:40

PSD NVNT 802.15.4 2440MHz Ant1



Date: 2.MAR.2024 07:56:04

PSD NVNT 802.15.4 2480MHz Ant1

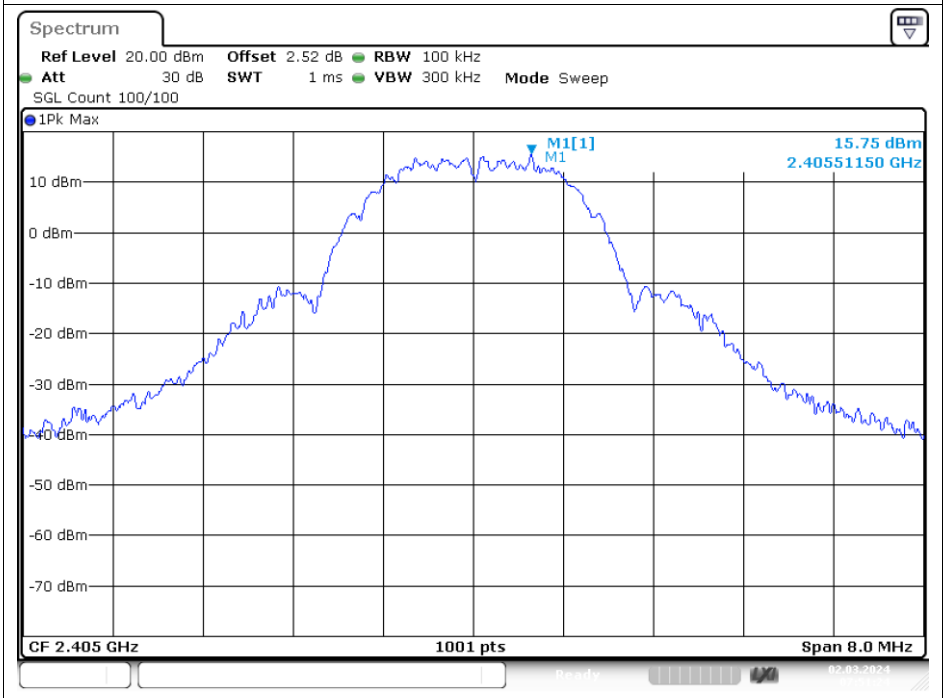


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.15.4	2405	Ant1	-56.56	-20	Pass
NVNT	802.15.4	2480	Ant1	-49.38	-20	Pass

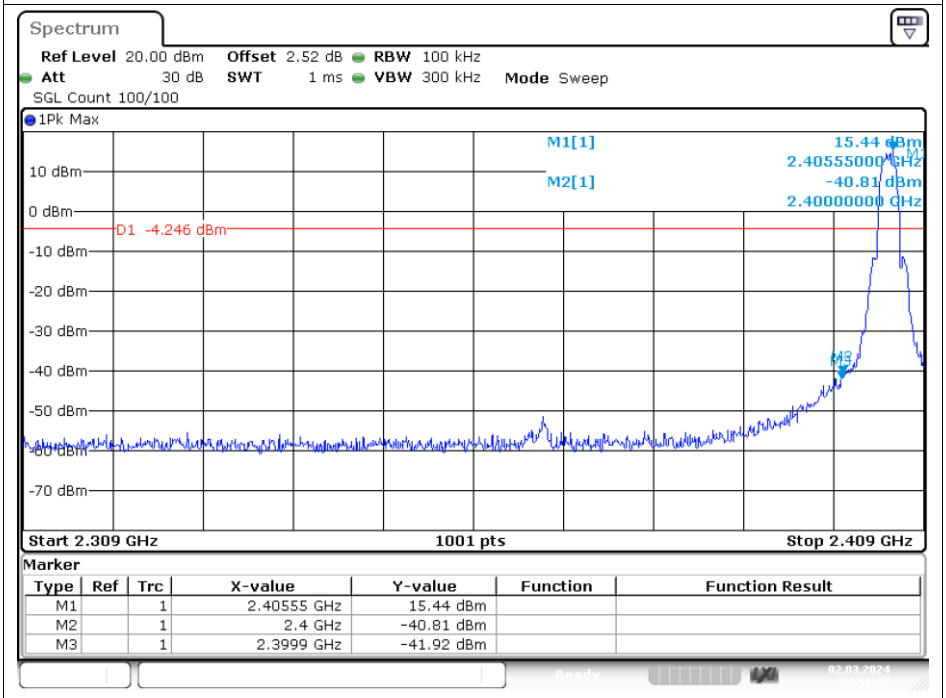
Test Graphs

Band Edge NVNT 802.15.4 2405MHz Ant1 Ref



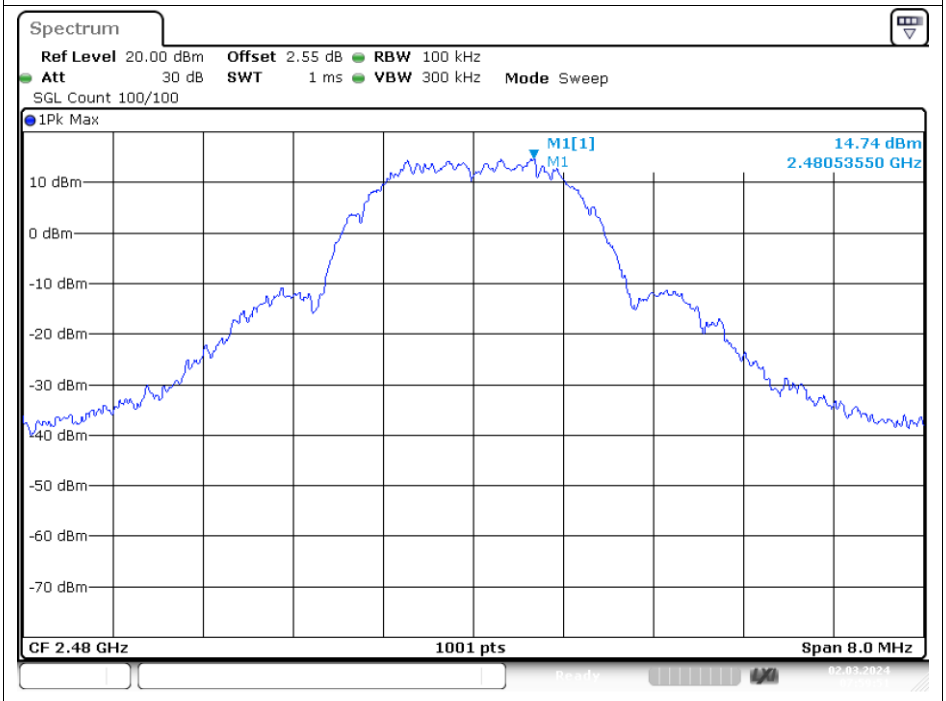
Date: 2.MAR.2024 07:51:24

Band Edge NVNT 802.15.4 2405MHz Ant1 Emission



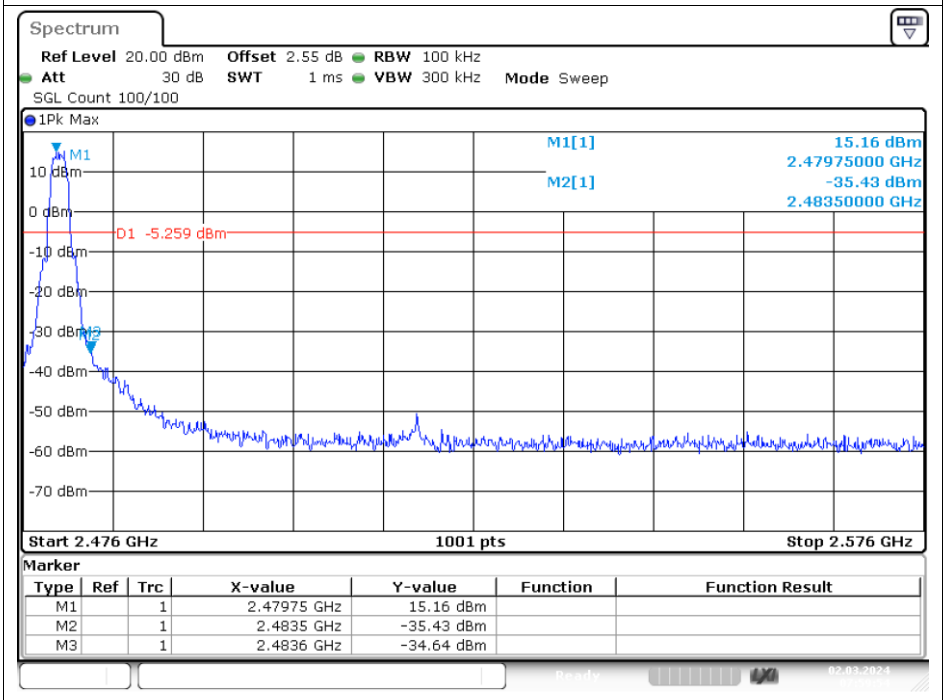
Date: 2.MAR.2024 07:51:27

Band Edge NVNT 802.15.4 2480MHz Ant1 Ref



Date: 2.MAR.2024 07:59:50

Band Edge NVNT 802.15.4 2480MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47975 GHz	15.16 dBm		
M2		1	2.4835 GHz	-35.43 dBm		
M3		1	2.4836 GHz	-34.64 dBm		

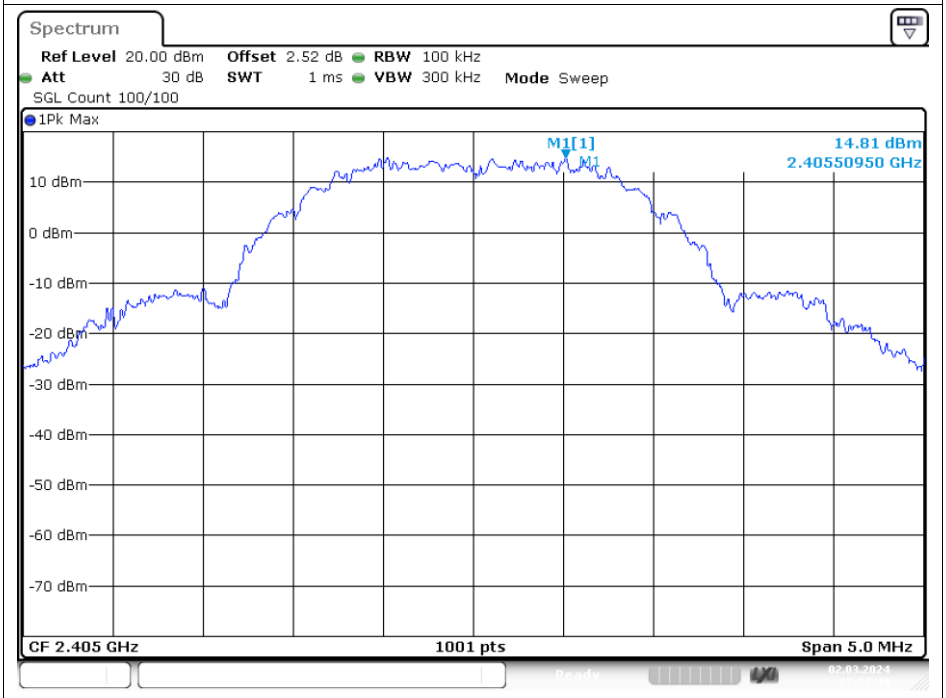
Date: 2.MAR.2024 07:59:53

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.15.4	2405	Ant1	-62.33	-20	Pass
NVNT	802.15.4	2440	Ant1	-64.64	-20	Pass
NVNT	802.15.4	2480	Ant1	-64.65	-20	Pass

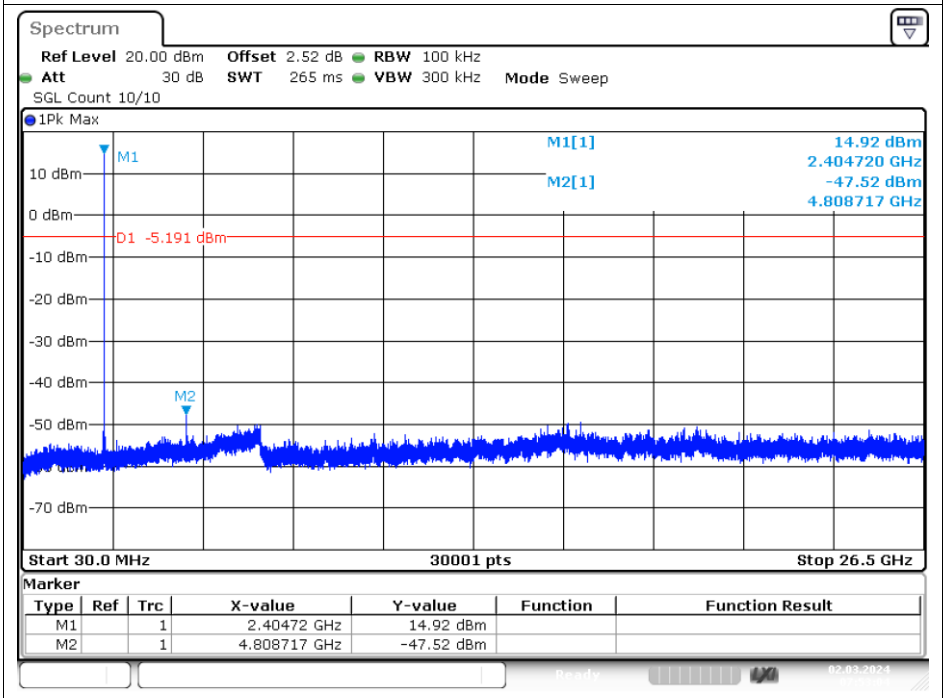
Test Graphs

Tx. Spurious NVNT 802.15.4 2405MHz Ant1 Ref



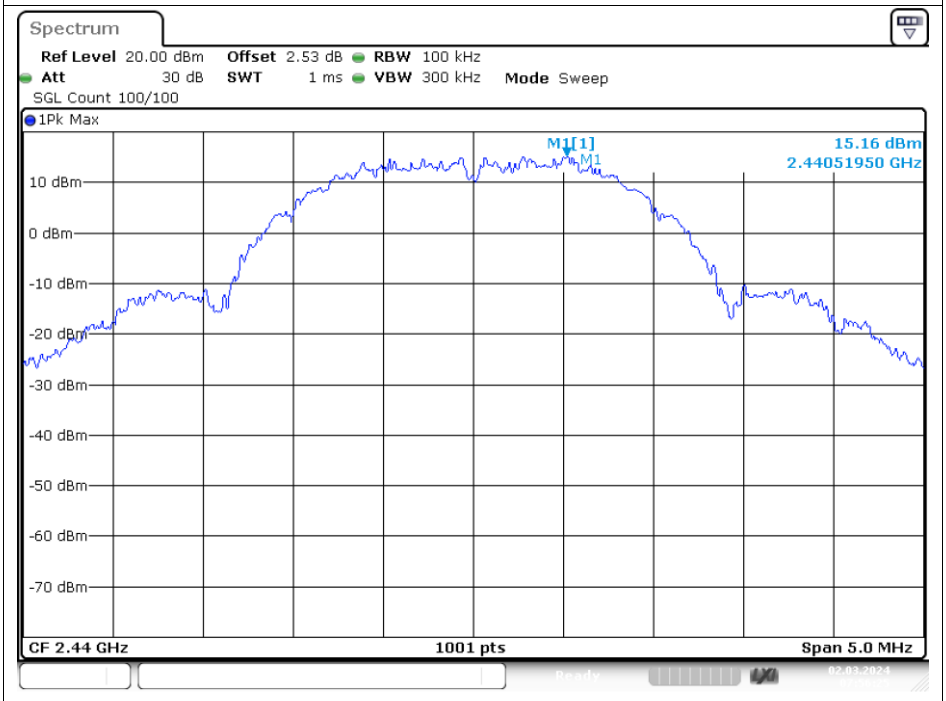
Date: 2.MAR.2024 07:52:49

Tx. Spurious NVNT 802.15.4 2405MHz Ant1 Emission



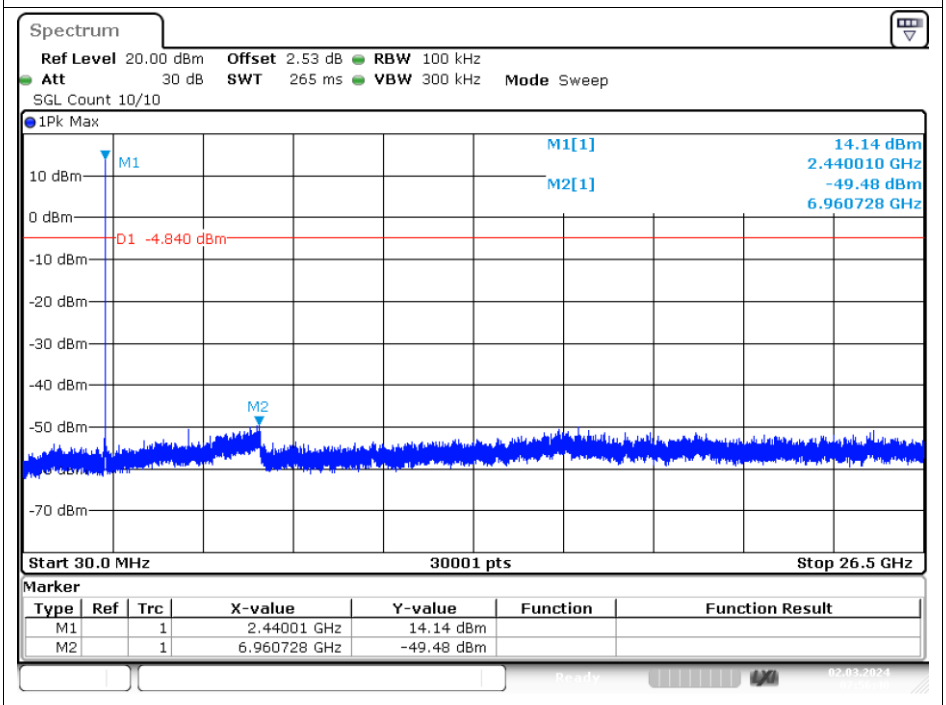
Date: 2.MAR.2024 07:53:04

Tx. Spurious NVNT 802.15.4 2440MHz Ant1 Ref



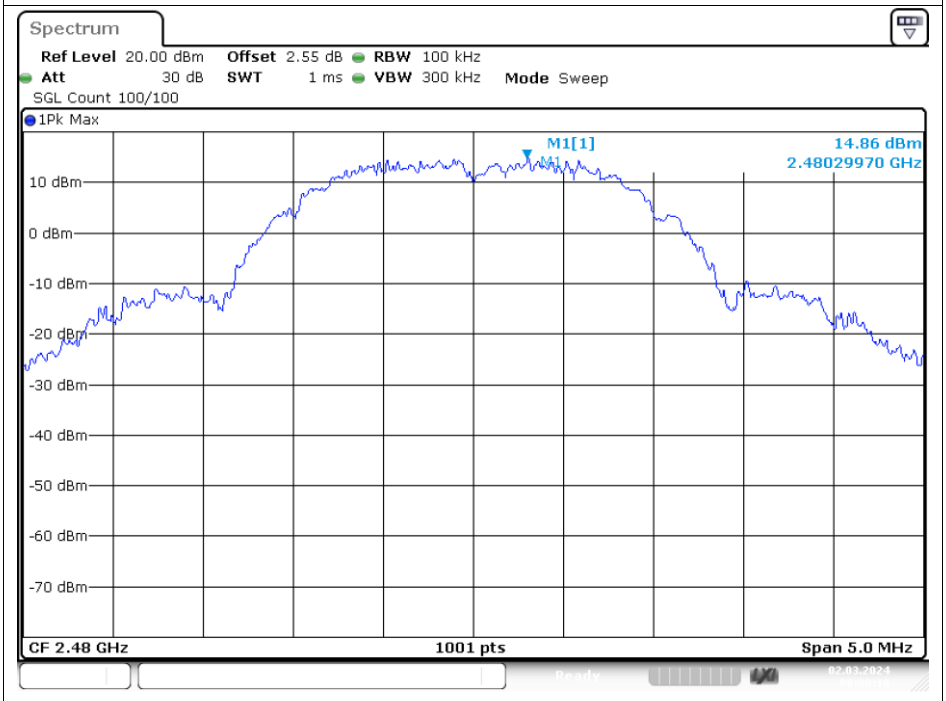
Date: 2.MAR.2024 07:56:25

Tx. Spurious NVNT 802.15.4 2440MHz Ant1 Emission



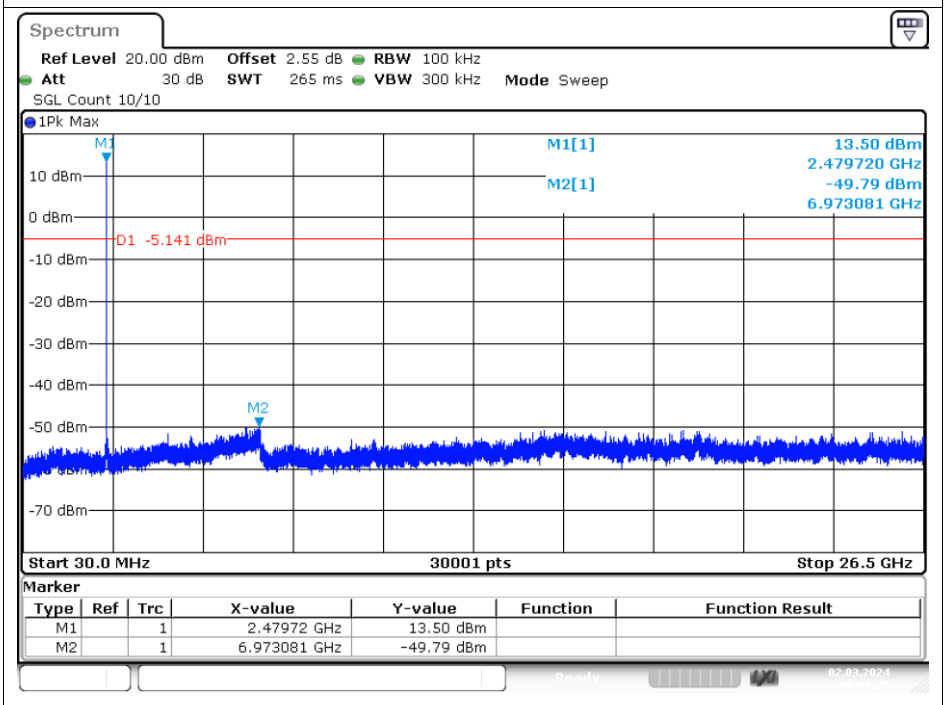
Date: 2.MAR.2024 07:56:40

Tx. Spurious NVNT 802.15.4 2480MHz Ant1 Ref



Date: 2.MAR.2024 08:00:10

Tx. Spurious NVNT 802.15.4 2480MHz Ant1 Emission



Date: 2.MAR.2024 08:00:25