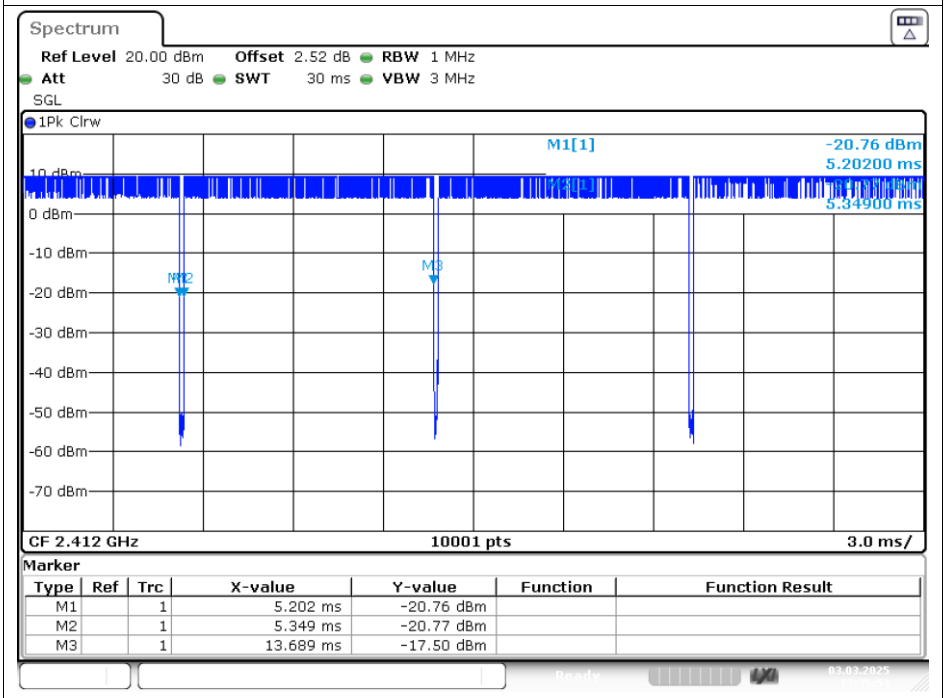
Appendix A

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	b	2412	Ant1	8.34	8.49	98.23	0	0.12	1
NVNT	b	2437	Ant1	8.34	8.49	98.23	0	0.12	1
NVNT	b	2462	Ant1	8.34	8.49	98.23	0	0.12	1
NVNT	g	2412	Ant1	1.38	1.42	97.18	0.12	0.73	1
NVNT	g	2437	Ant1	1.38	1.42	97.18	0.12	0.73	1
NVNT	g	2462	Ant1	1.38	1.42	97.18	0.12	0.73	1
NVNT	n20	2412	Ant1	1.29	1.33	96.99	0.13	0.78	1
NVNT	n20	2437	Ant1	1.29	1.33	96.99	0.13	0.78	1
NVNT	n20	2462	Ant1	1.29	1.33	96.99	0.13	0.78	1

Test Graphs

Duty Cycle NVNT b 2412MHz Ant1

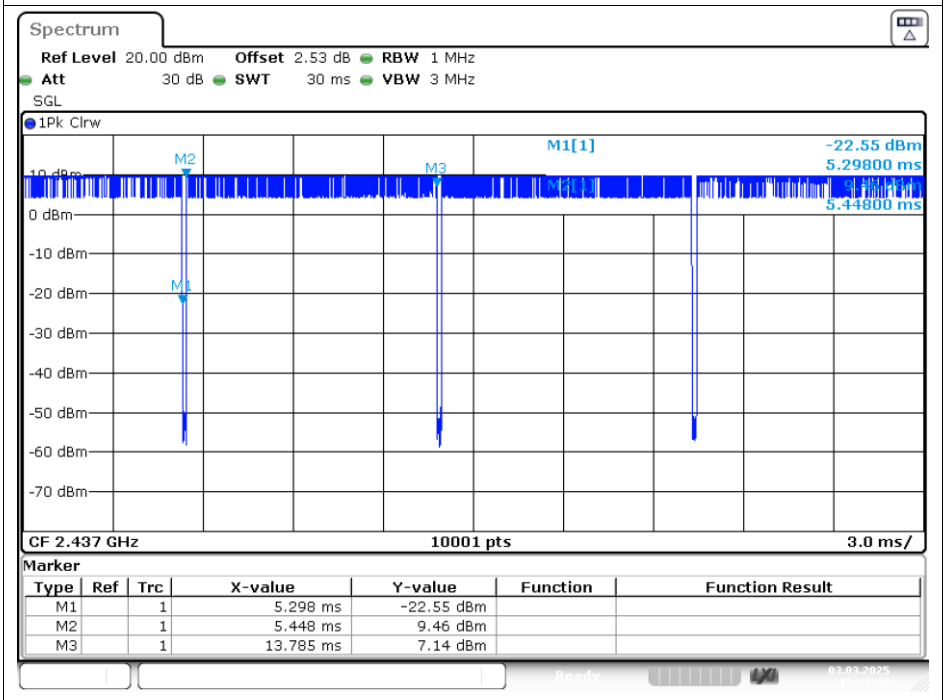


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.202 ms	-20.76 dBm		
M2		1	5.349 ms	-20.77 dBm		
M3		1	13.689 ms	-17.50 dBm		

Date: 3.MAR.2025 13:35:54

Duty Cycle NVNT b 2437MHz Ant1

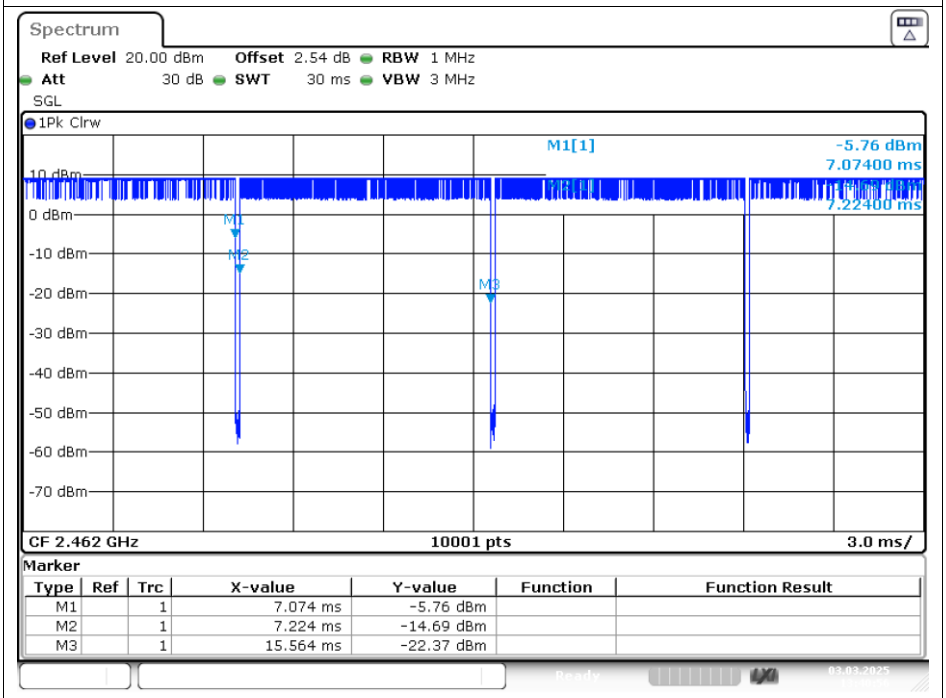


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	5.298 ms	-22.55 dBm		
M2		1	5.448 ms	9.46 dBm		
M3		1	13.785 ms	7.14 dBm		

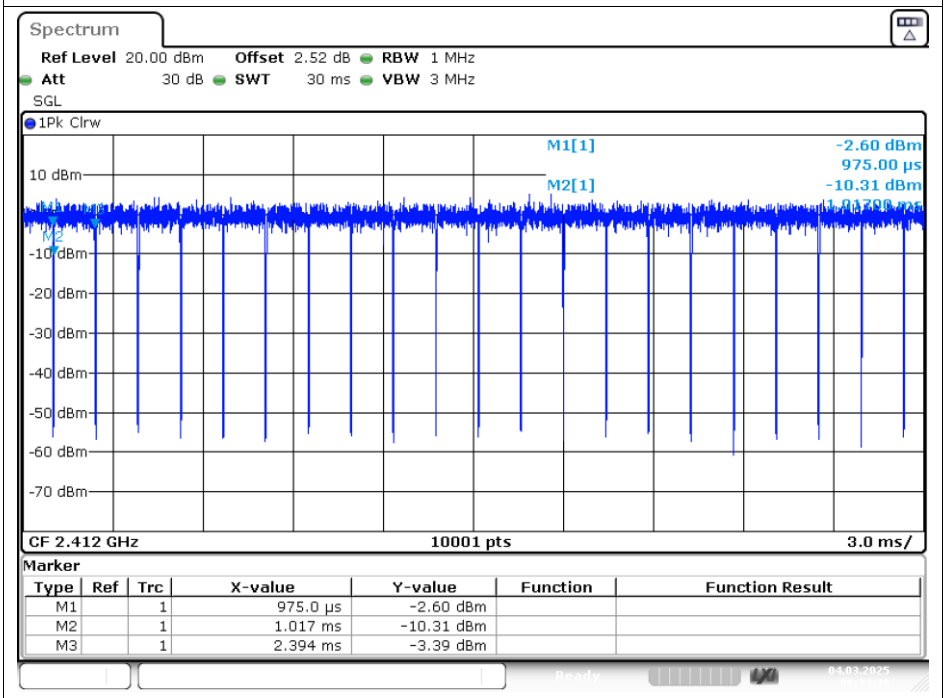
Date: 3.MAR.2025 13:39:19

Duty Cycle NVNT b 2462MHz Ant1



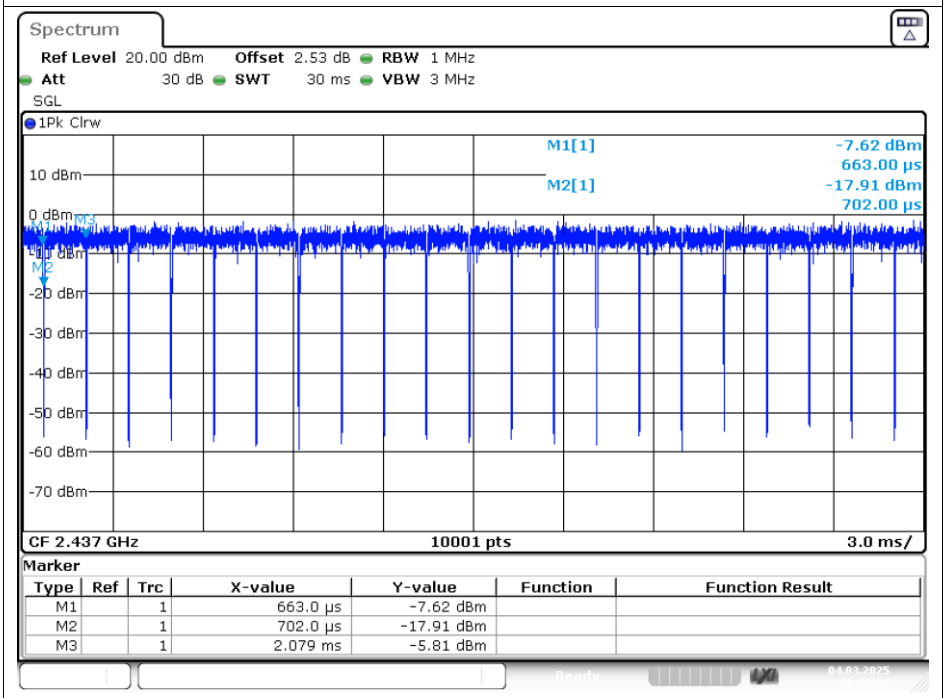
Date: 3.MAR.2025 13:40:57

Duty Cycle NVNT g 2412MHz Ant1



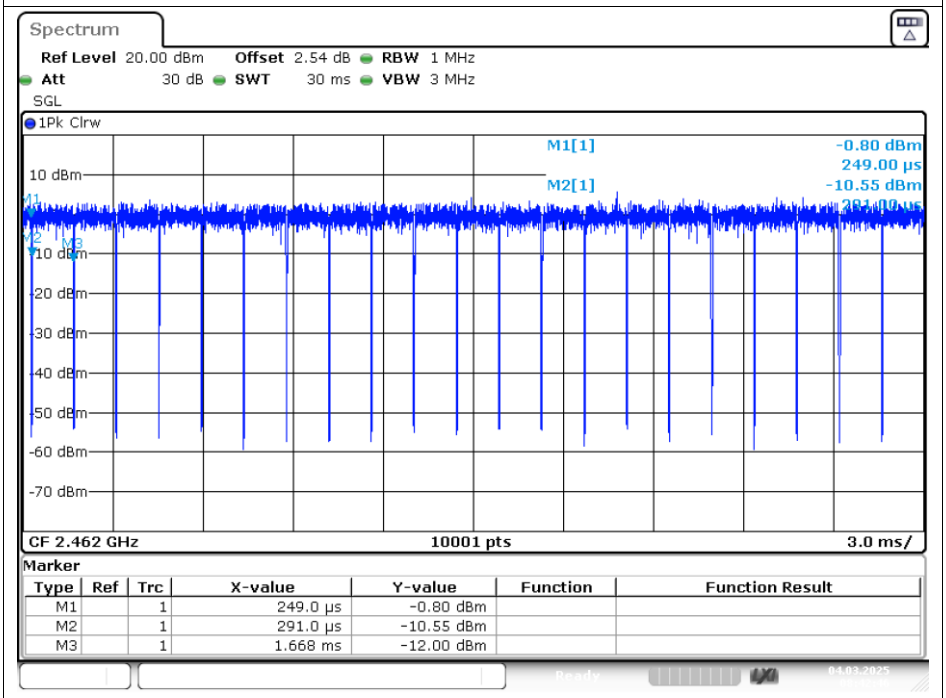
Date: 4.MAR.2025 08:34:30

Duty Cycle NVNT g 2437MHz Ant1



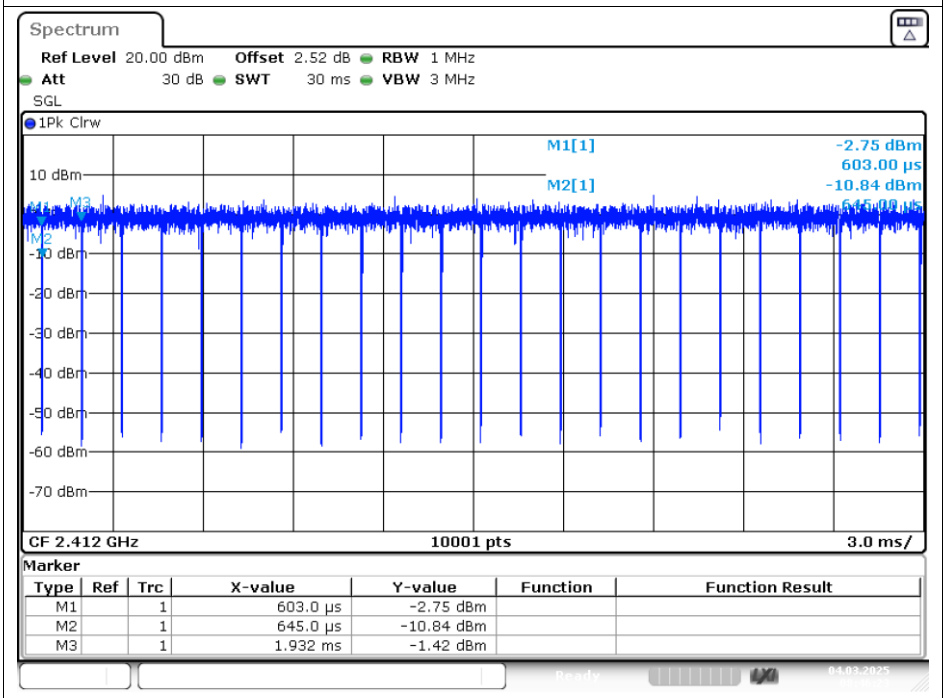
Date: 4.MAR.2025 08:36:06

Duty Cycle NVNT g 2462MHz Ant1



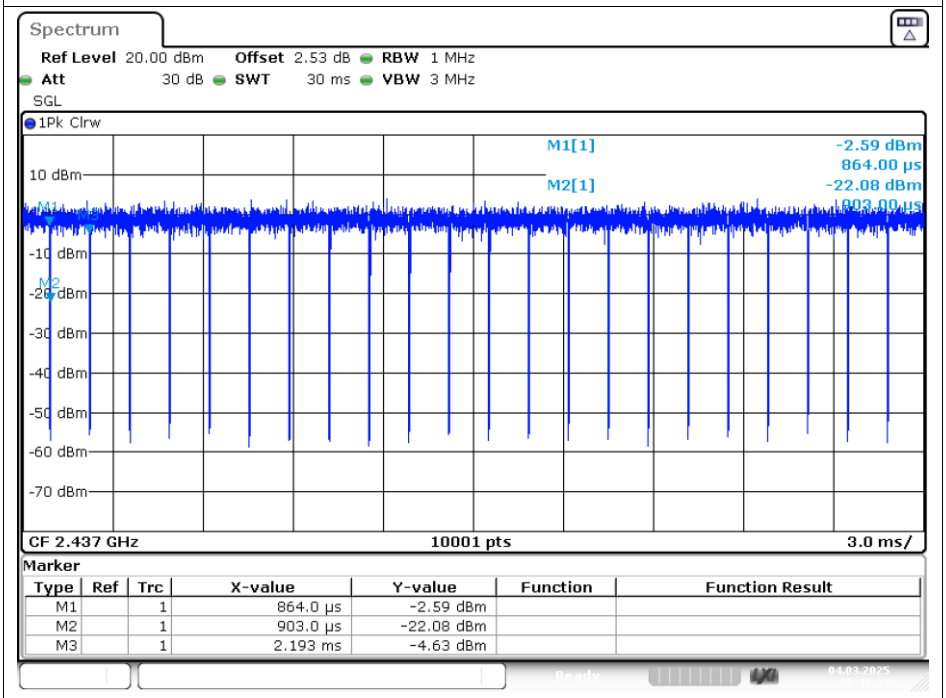
Date: 4.MAR.2025 08:42:45

Duty Cycle NVNT n20 2412MHz Ant1



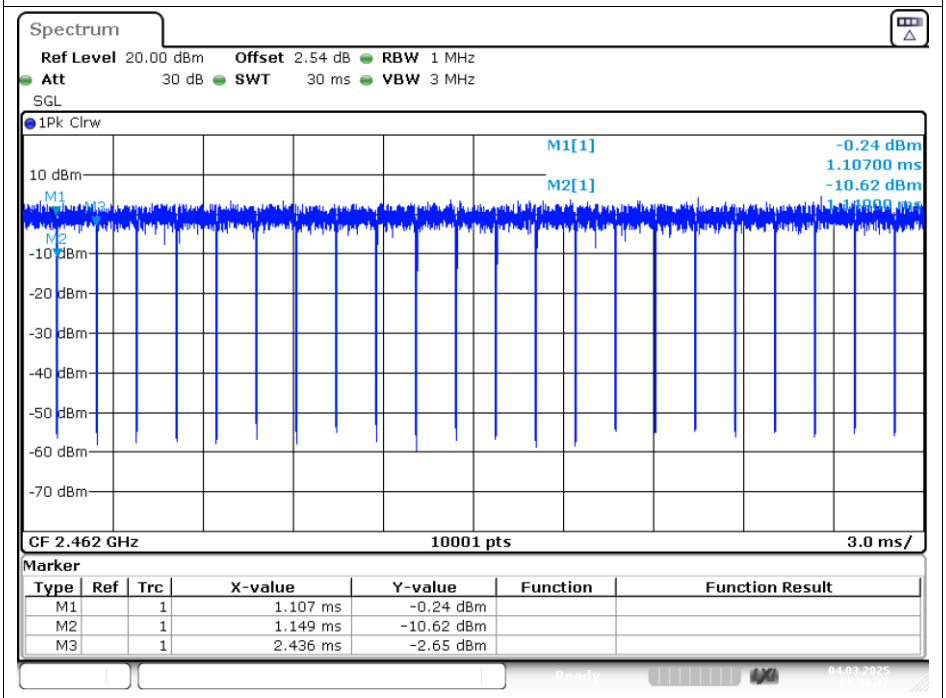
Date: 4.MAR.2025 08:46:22

Duty Cycle NVNT n20 2437MHz Ant1



Date: 4.MAR.2025 08:48:35

Duty Cycle NVNT n20 2462MHz Ant1



Maximum Conducted Output Power

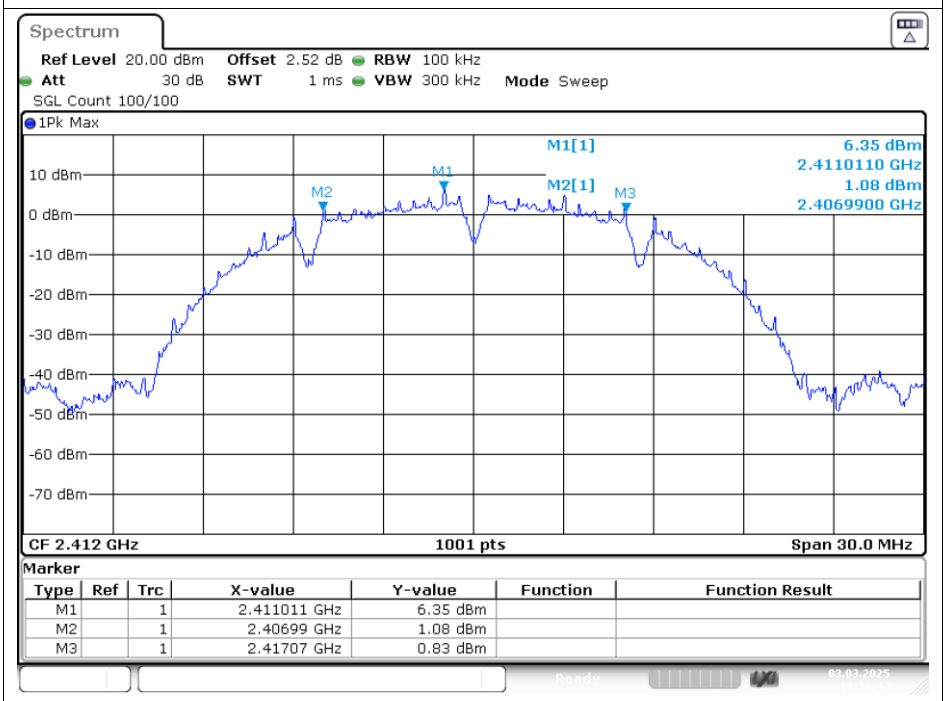
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	18.44	0	18.44	30	Pass
NVNT	b	2437	Ant1	18.7	0	18.7	30	Pass
NVNT	b	2462	Ant1	18.27	0	18.27	30	Pass
NVNT	g	2412	Ant1	15.73	0	15.73	30	Pass
NVNT	g	2437	Ant1	15.17	0	15.17	30	Pass
NVNT	g	2462	Ant1	15.61	0	15.61	30	Pass
NVNT	n20	2412	Ant1	15.69	0	15.69	30	Pass
NVNT	n20	2437	Ant1	15.19	0	15.19	30	Pass
NVNT	n20	2462	Ant1	15.82	0	15.82	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.08	0.5	Pass
NVNT	b	2437	Ant1	9.57	0.5	Pass
NVNT	b	2462	Ant1	9.57	0.5	Pass
NVNT	g	2412	Ant1	16.32	0.5	Pass
NVNT	g	2437	Ant1	16.35	0.5	Pass
NVNT	g	2462	Ant1	16.32	0.5	Pass
NVNT	n20	2412	Ant1	17.04	0.5	Pass
NVNT	n20	2437	Ant1	17.07	0.5	Pass
NVNT	n20	2462	Ant1	17.04	0.5	Pass

Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1

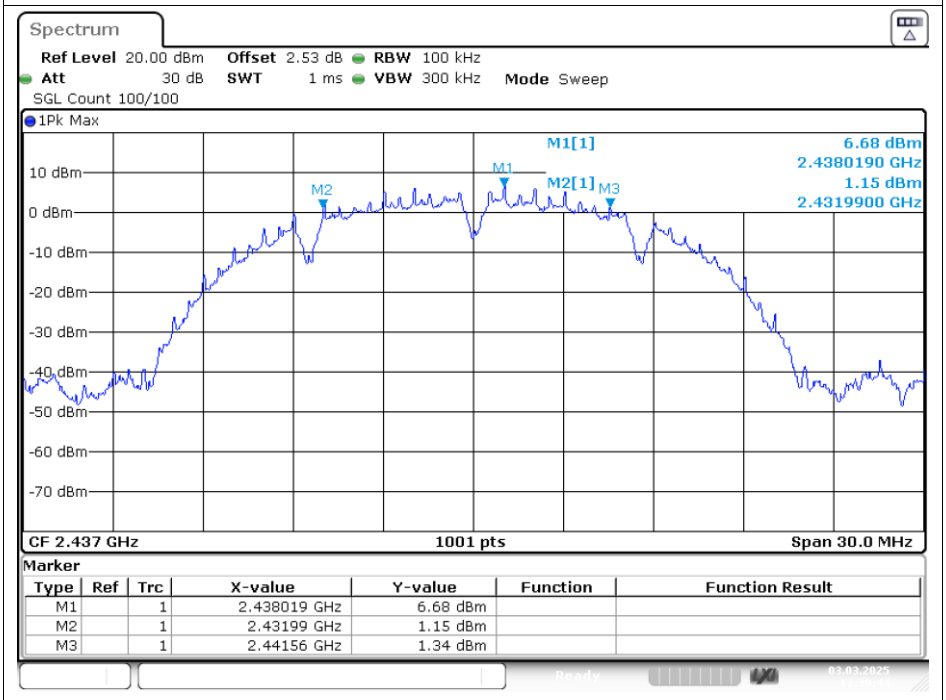


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.411011 GHz	6.35 dBm		
M2		1	2.40699 GHz	1.08 dBm		
M3		1	2.41707 GHz	0.83 dBm		

Date: 3.MAR.2025 13:37:42

-6dB Bandwidth NVNT b 2437MHz Ant1

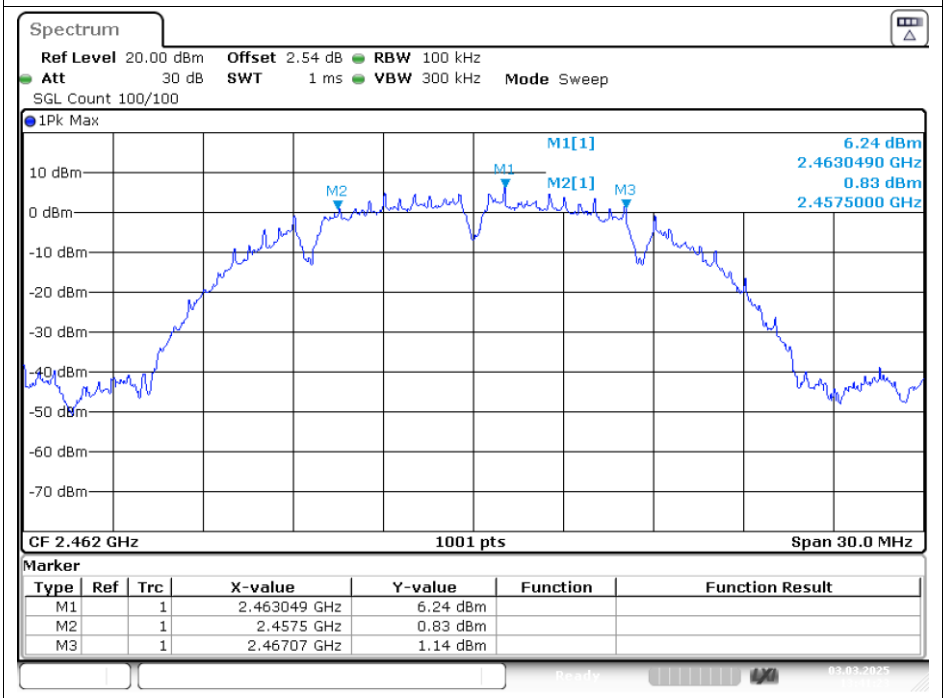


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.438019 GHz	6.68 dBm		
M2		1	2.43199 GHz	1.15 dBm		
M3		1	2.44156 GHz	1.34 dBm		

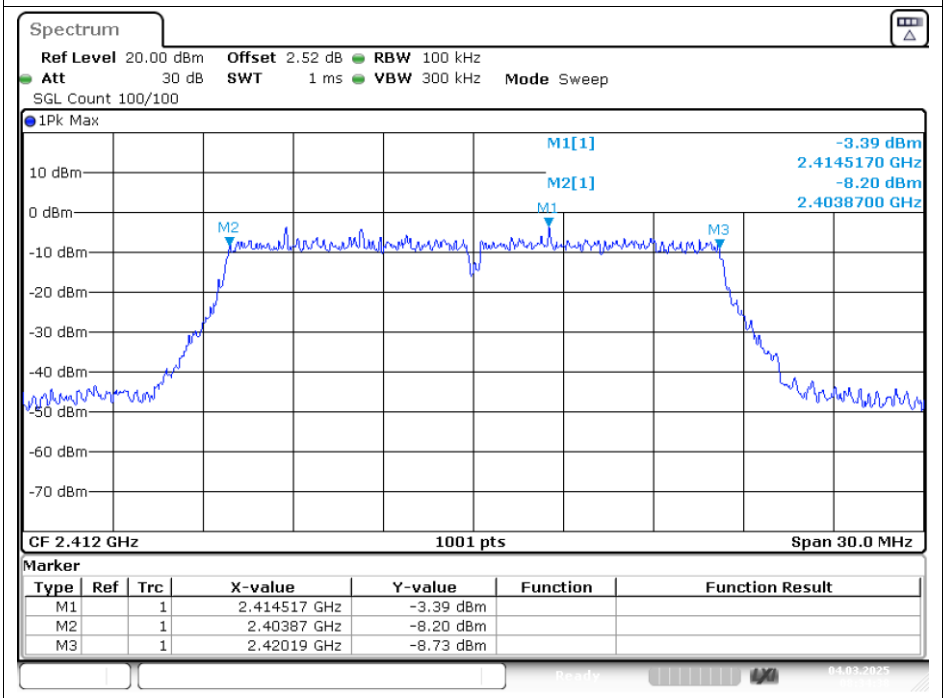
Date: 3.MAR.2025 13:39:44

-6dB Bandwidth NVNT b 2462MHz Ant1



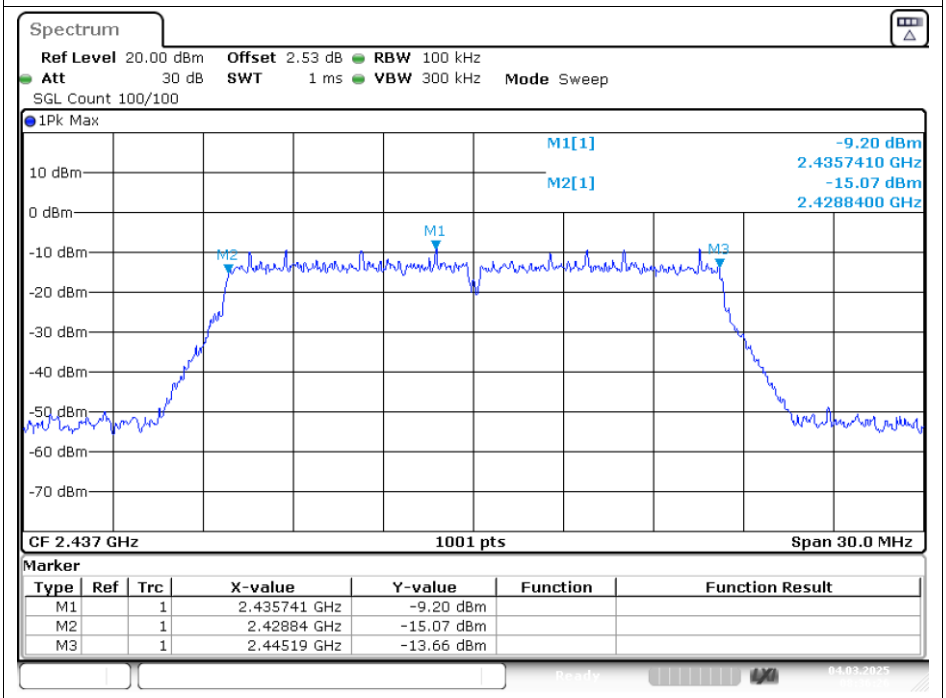
Date: 3.MAR.2025 13:41:23

-6dB Bandwidth NVNT g 2412MHz Ant1



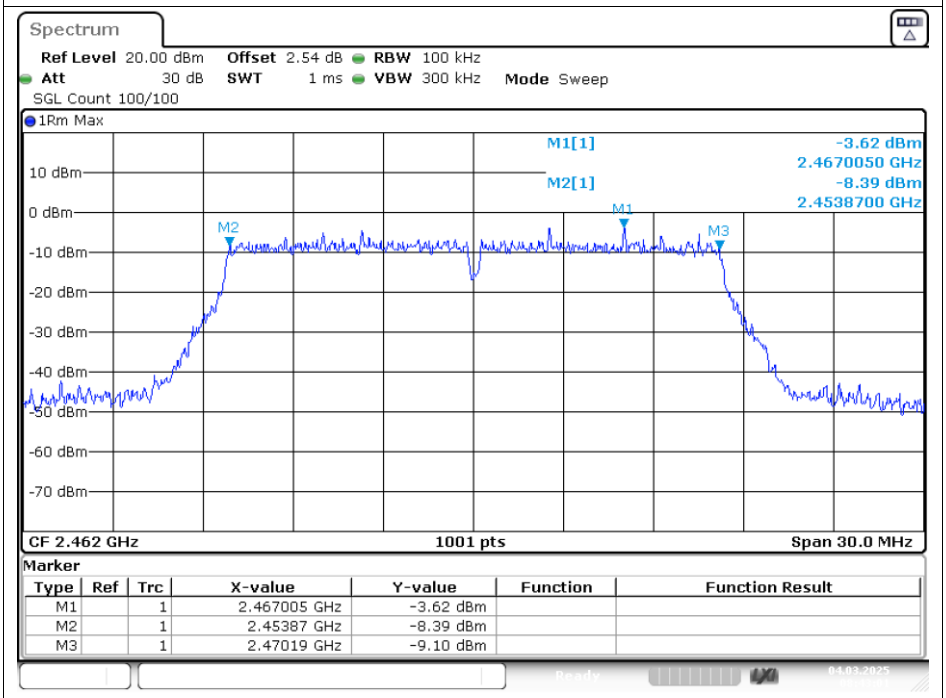
Date: 4.MAR.2025 08:34:38

-6dB Bandwidth NVNT g 2437MHz Ant1



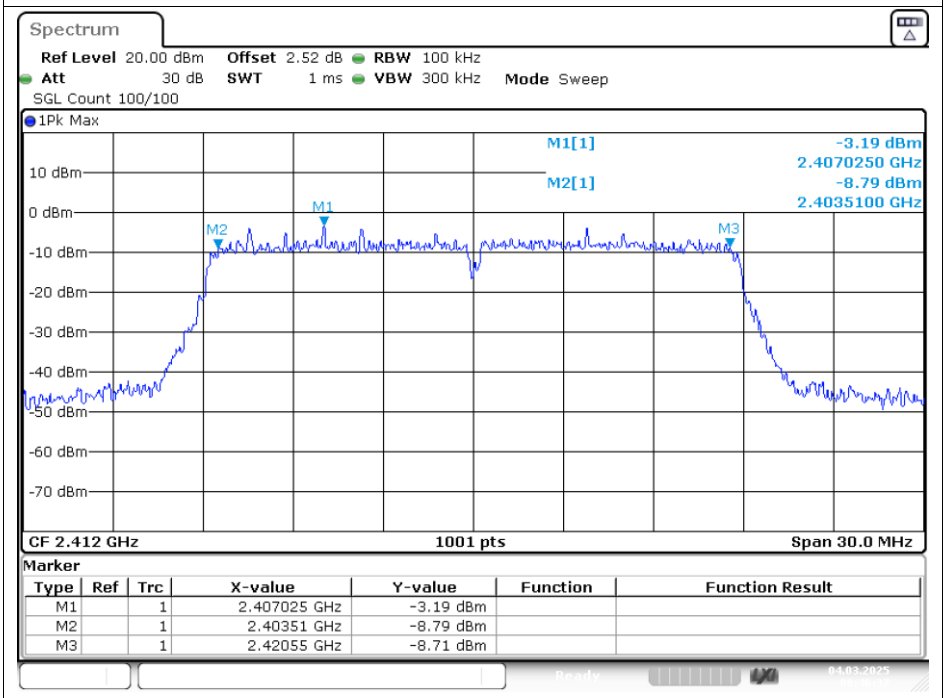
Date: 4.MAR.2025 08:36:26

-6dB Bandwidth NVNT g 2462MHz Ant1



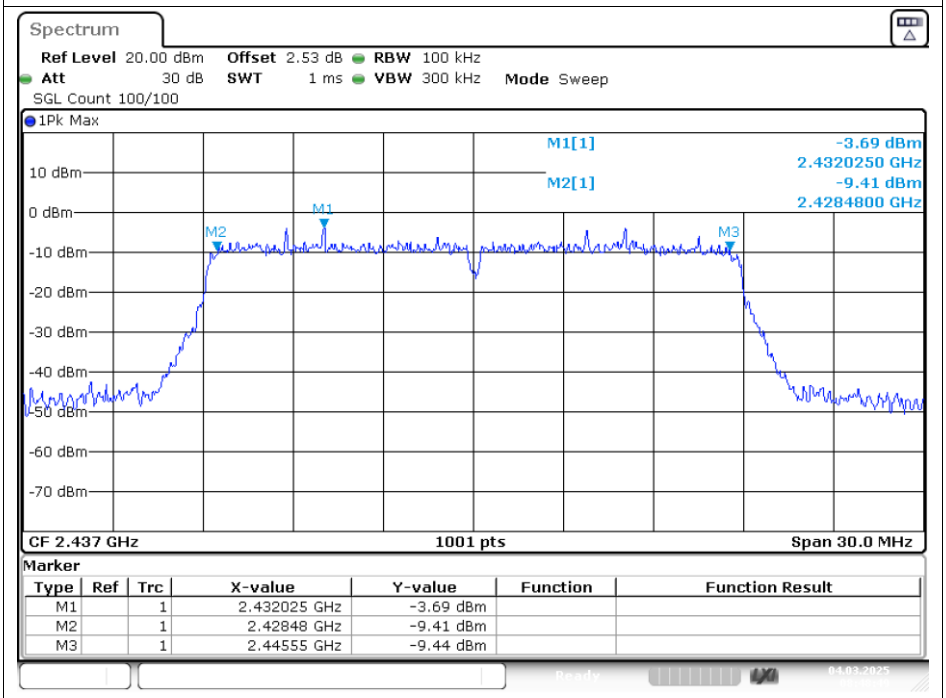
Date: 4.MAR.2025 08:43:01

-6dB Bandwidth NVNT n20 2412MHz Ant1



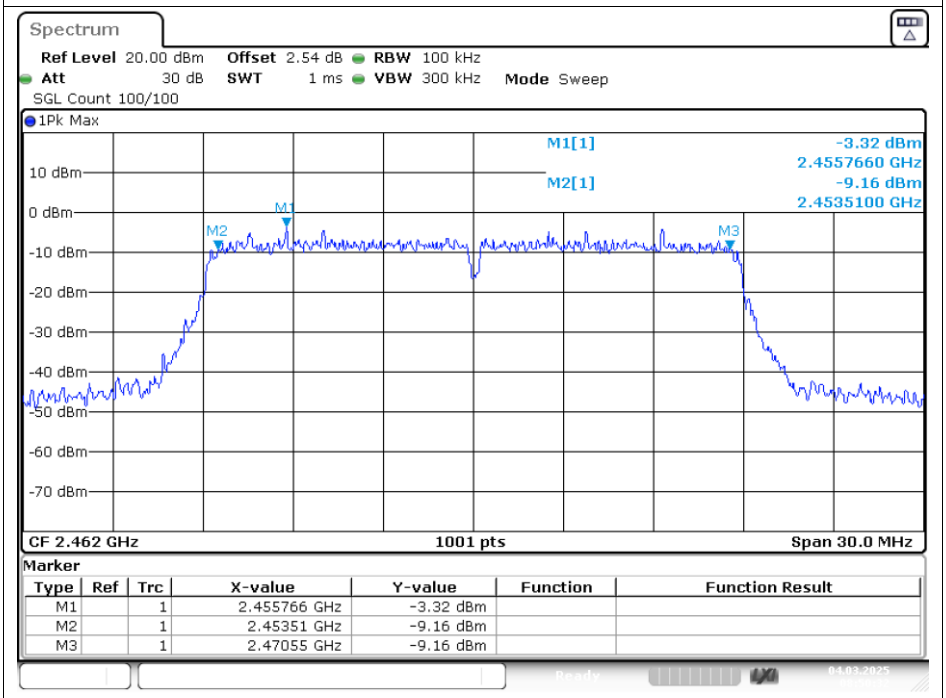
Date: 4.MAR.2025 08:46:36

-6dB Bandwidth NVNT n20 2437MHz Ant1



Date: 4.MAR.2025 08:48:49

-6dB Bandwidth NVNT n20 2462MHz Ant1

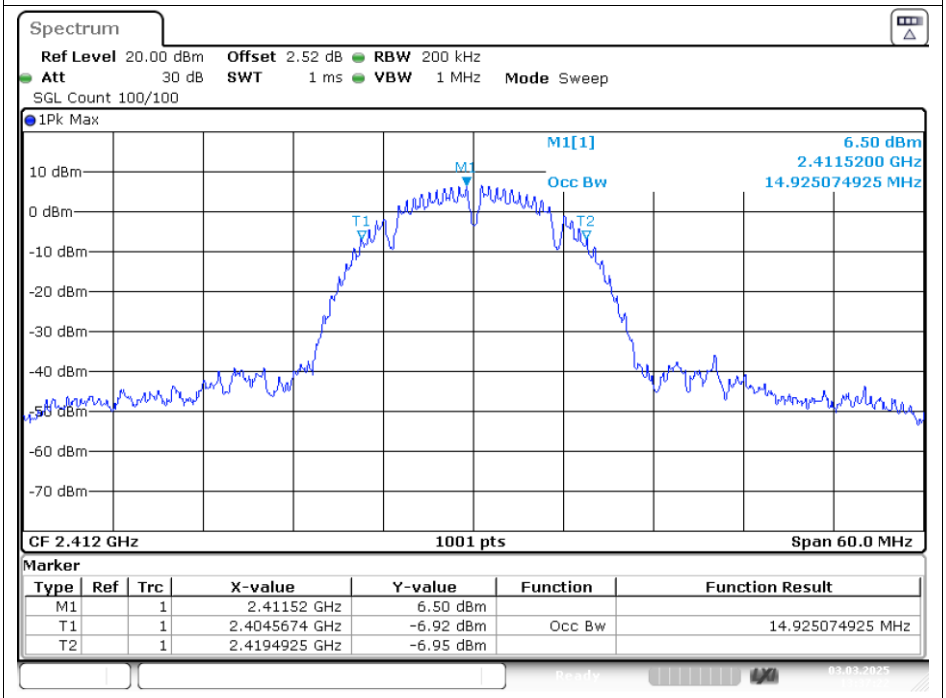


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	14.925
NVNT	b	2437	Ant1	14.925
NVNT	b	2462	Ant1	14.925
NVNT	g	2412	Ant1	16.543
NVNT	g	2437	Ant1	16.543
NVNT	g	2462	Ant1	16.484
NVNT	n20	2412	Ant1	17.562
NVNT	n20	2437	Ant1	17.562
NVNT	n20	2462	Ant1	17.562

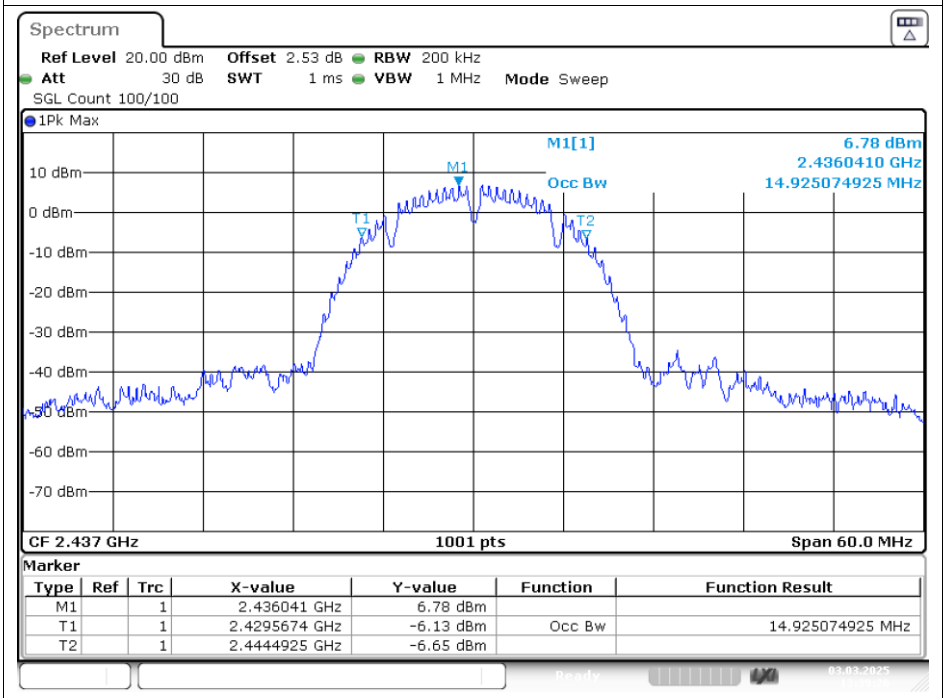
Test Graphs

OBW NVNT b 2412MHz Ant1



Date: 3.MAR.2025 13:37:22

OBW NVNT b 2437MHz Ant1



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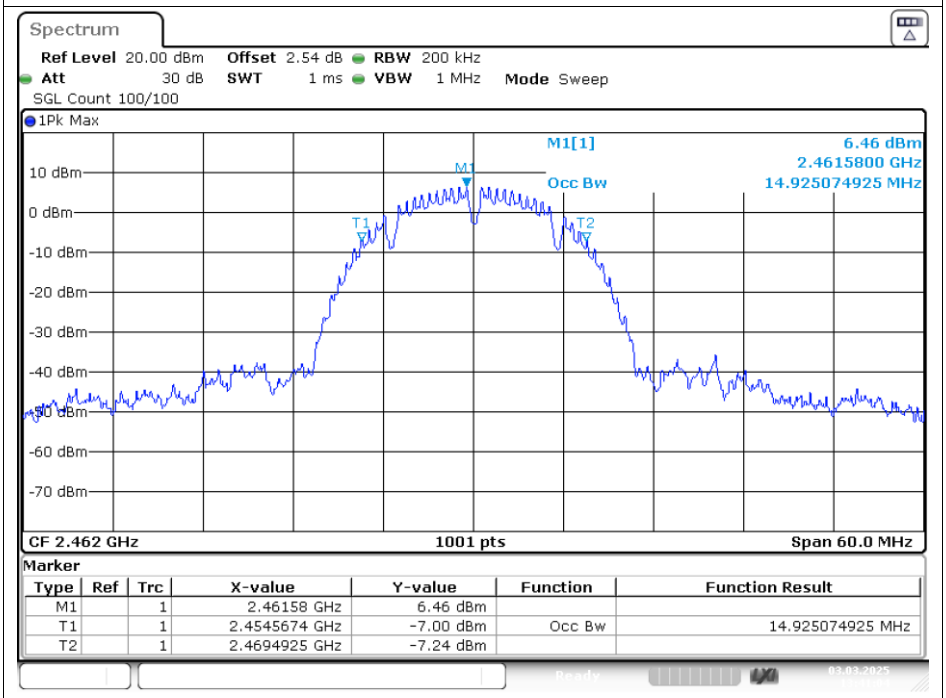
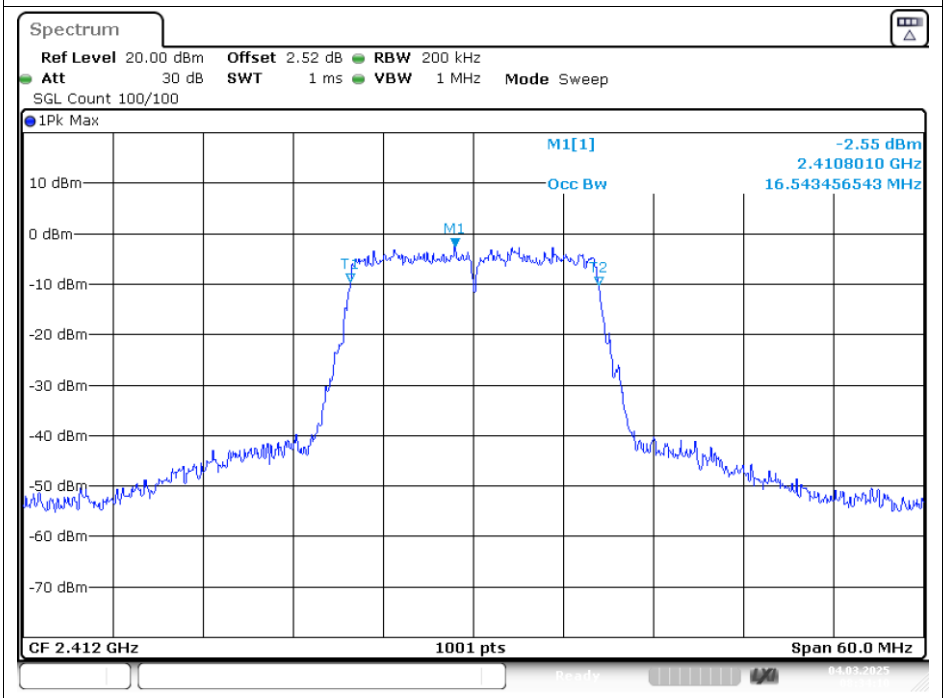
OBW NVNT b 2462MHz Ant1



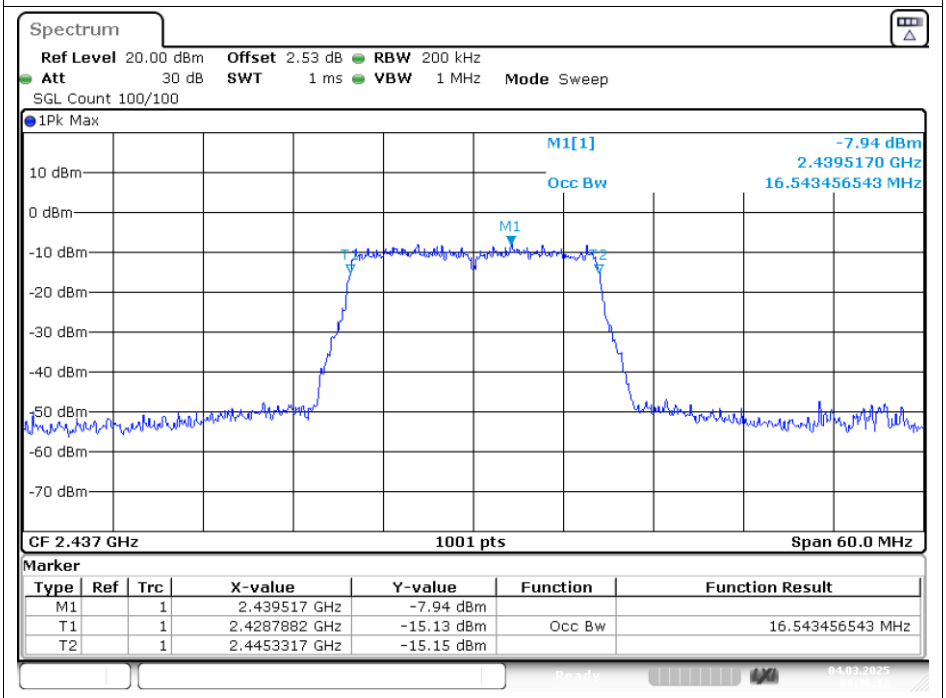
Date: 3.MAR.2025 13:41:05

OBW NVNT g 2412MHz Ant1

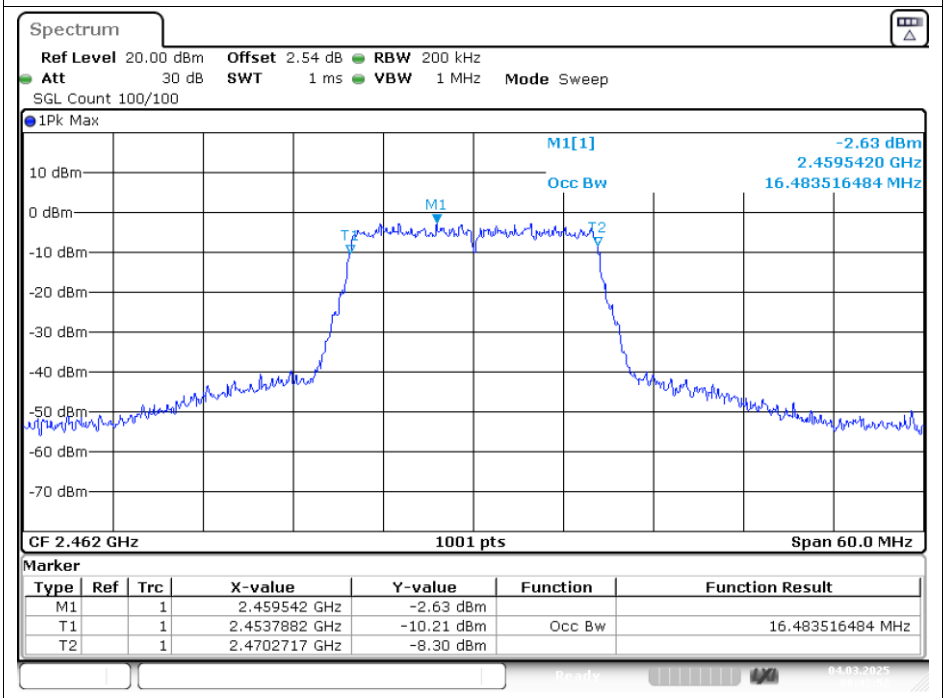


Date: 4.MAR.2025 08:34:09

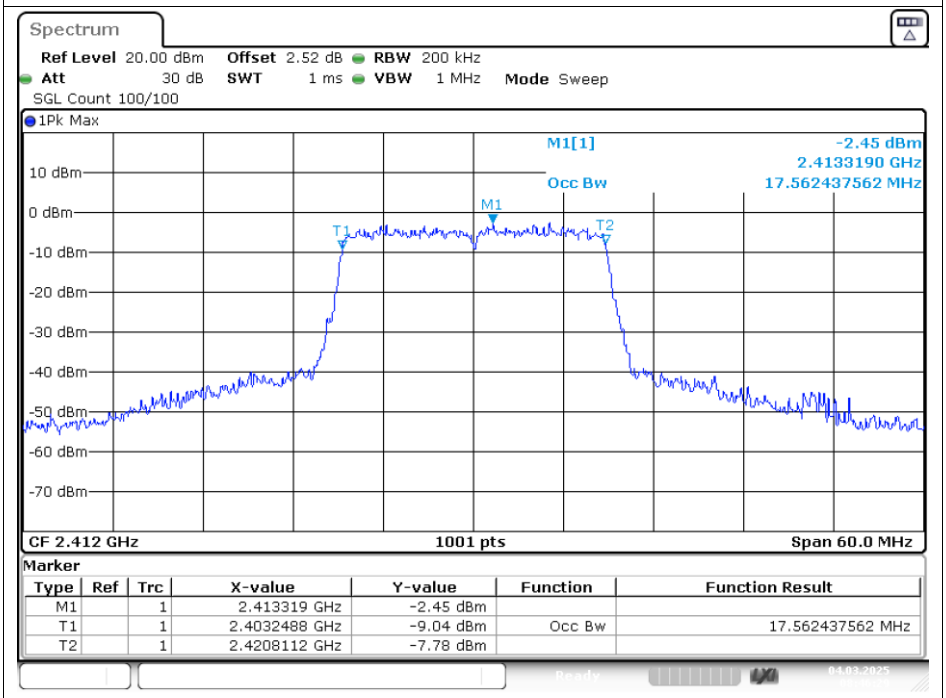
OBW NVNT g 2437MHz Ant1



OBW NVNT g 2462MHz Ant1

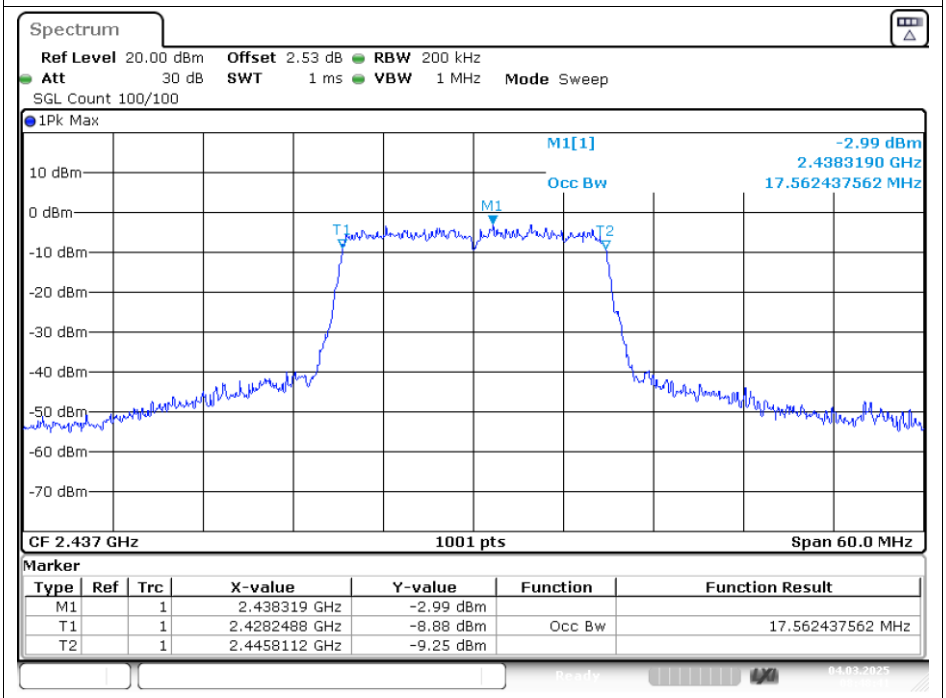


OBW NVNT n20 2412MHz Ant1



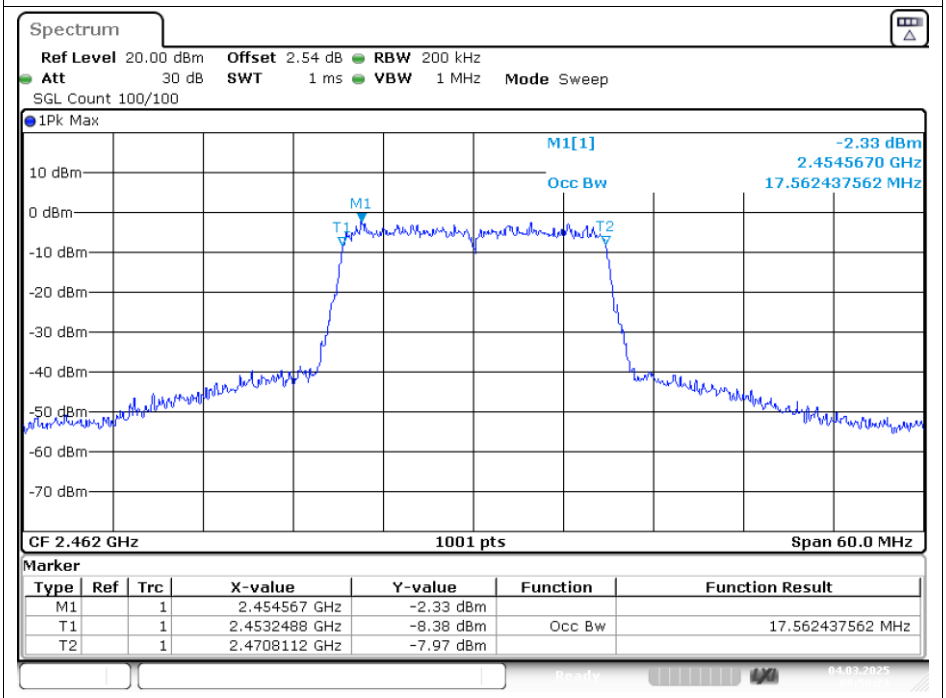
Date: 4.MAR.2025 08:46:28

OBW NVNT n20 2437MHz Ant1

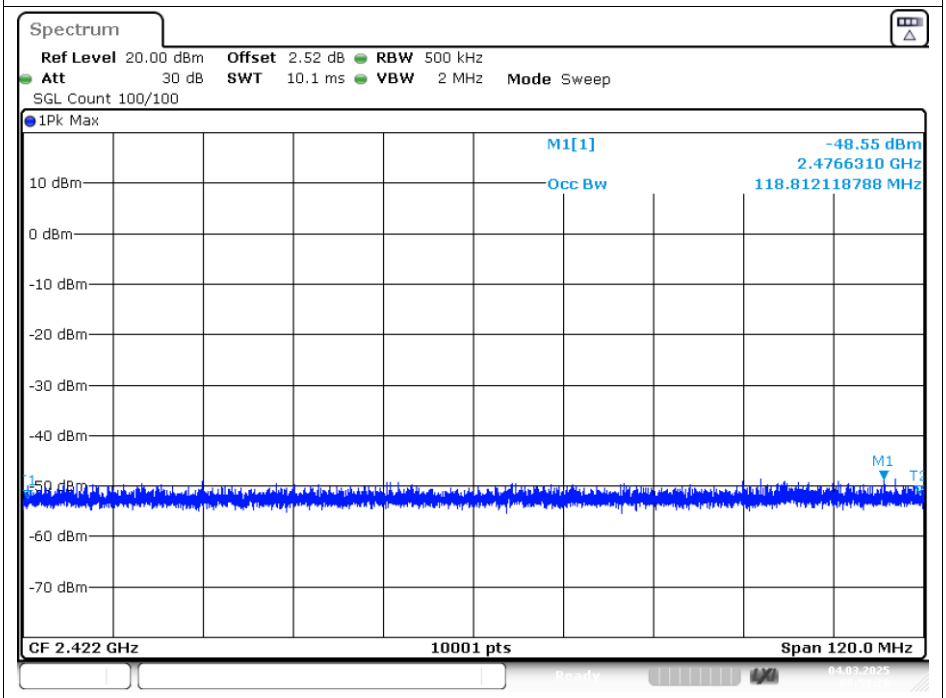


Date: 4.MAR.2025 08:48:41

OBW NVNT n20 2462MHz Ant1



OBW NVNT n40 2422MHz Ant1

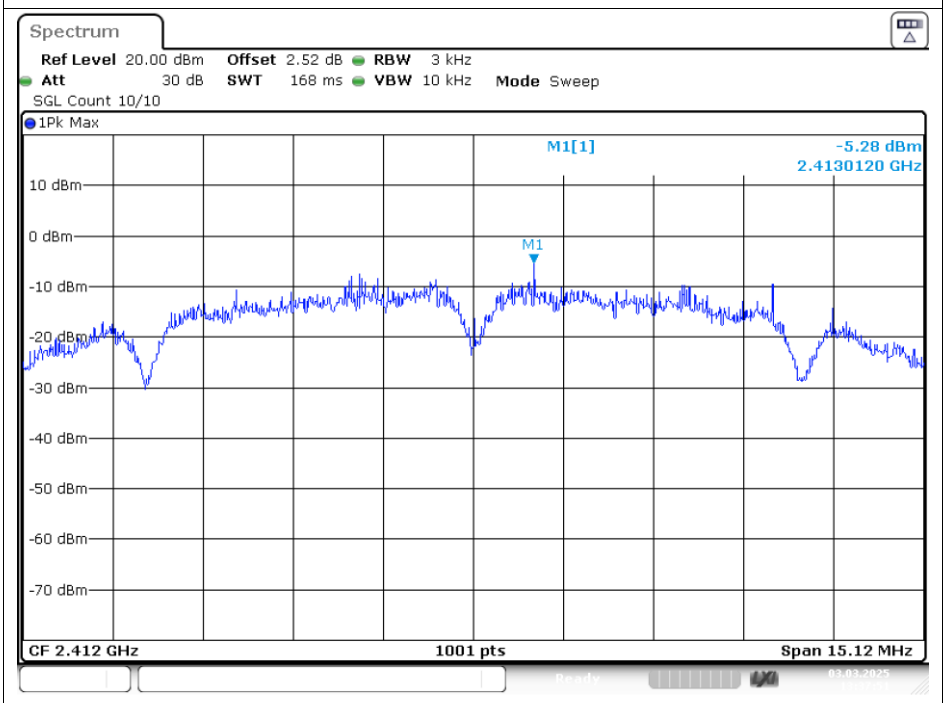


Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-5.28	0	-5.28	8	Pass
NVNT	b	2437	Ant1	-6.6	0	-6.6	8	Pass
NVNT	b	2462	Ant1	-5.46	0	-5.46	8	Pass
NVNT	g	2412	Ant1	-17.8	0	-17.8	8	Pass
NVNT	g	2437	Ant1	-17.65	0	-17.65	8	Pass
NVNT	g	2462	Ant1	-17.44	0	-17.44	8	Pass
NVNT	n20	2412	Ant1	-16.77	0	-16.77	8	Pass
NVNT	n20	2437	Ant1	-17.42	0	-17.42	8	Pass
NVNT	n20	2462	Ant1	-17.63	0	-17.63	8	Pass

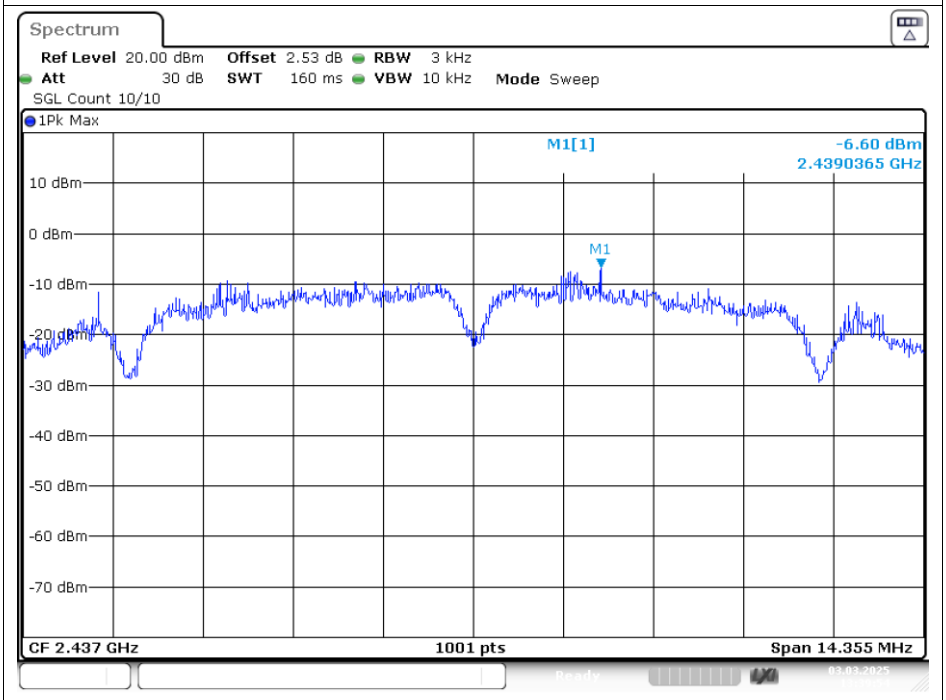
Test Graphs

PSD NVNT b 2412MHz Ant1



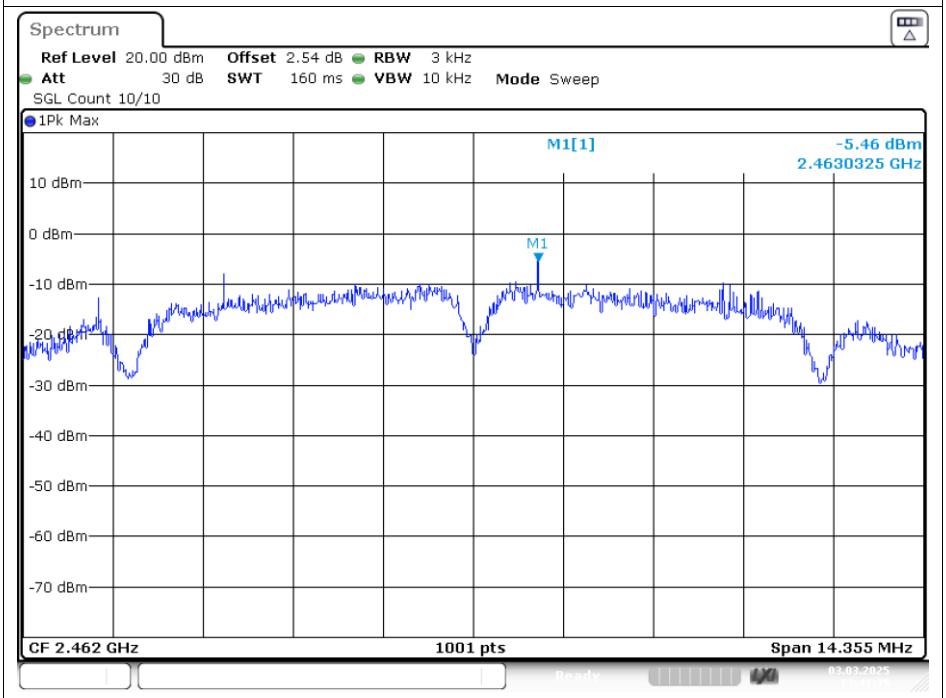
Date: 3.MAR.2025 13:37:51

PSD NVNT b 2437MHz Ant1



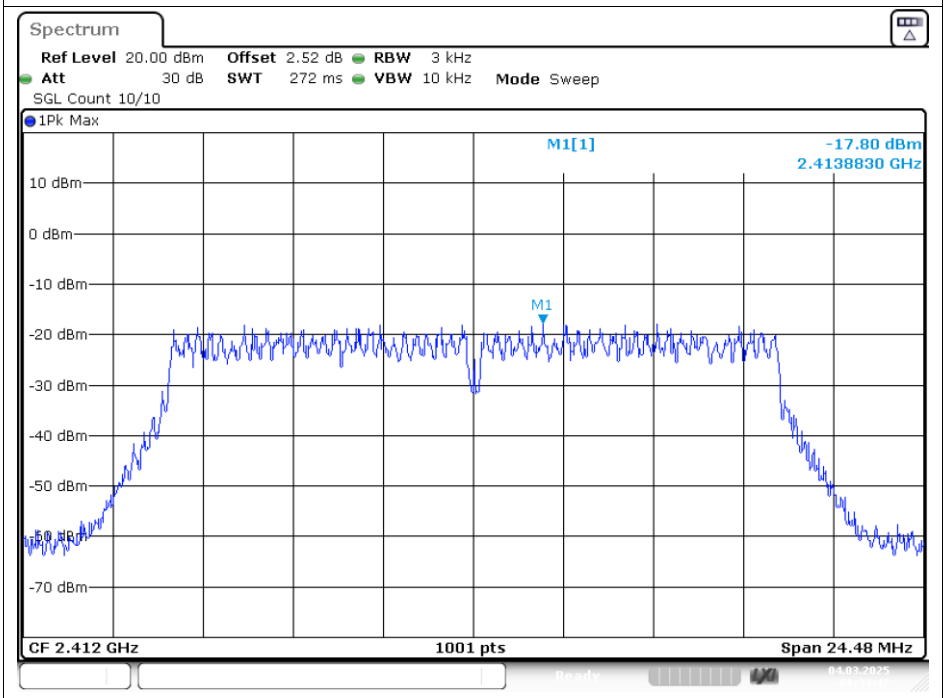
Date: 3.MAR.2025 13:39:54

PSD NVNT b 2462MHz Ant1



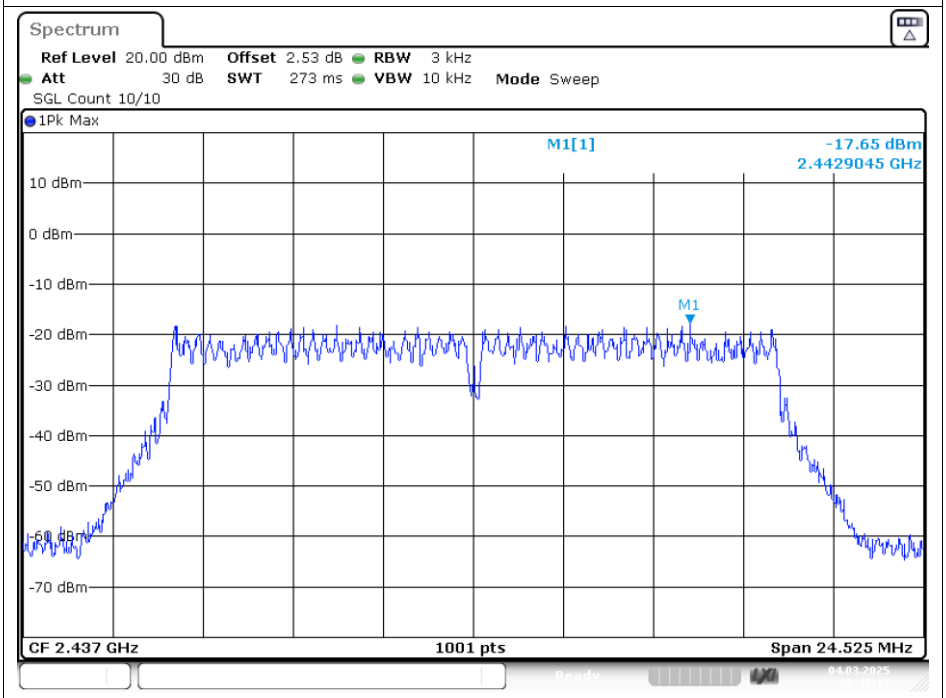
Date: 3.MAR.2025 13:41:34

PSD NVNT g 2412MHz Ant1



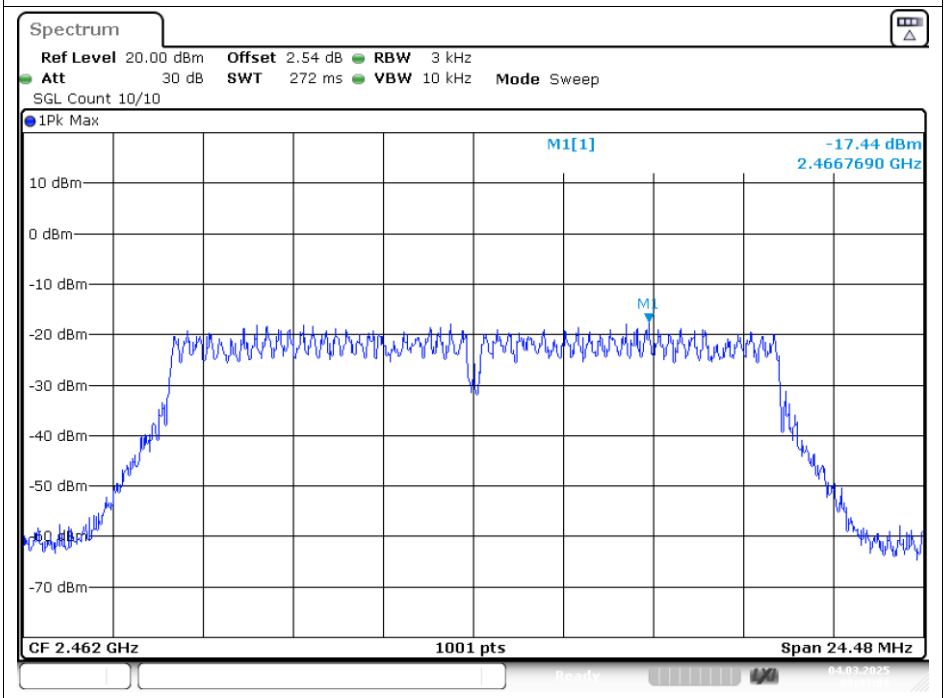
Date: 4.MAR.2025 08:34:47

PSD NVNT g 2437MHz Ant1



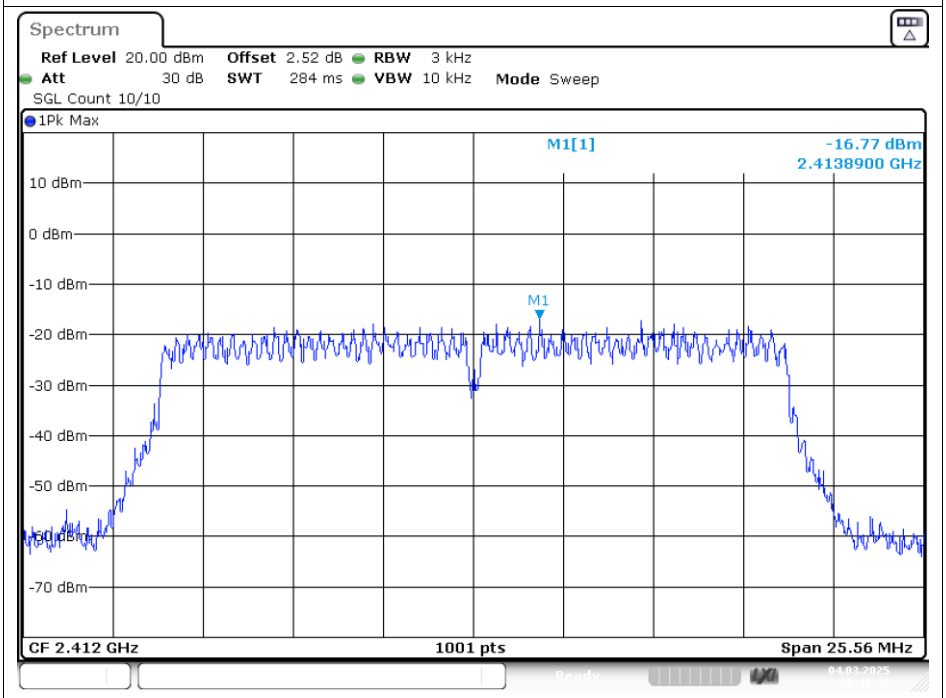
Date: 4.MAR.2025 08:40:17

PSD NVNT g 2462MHz Ant1



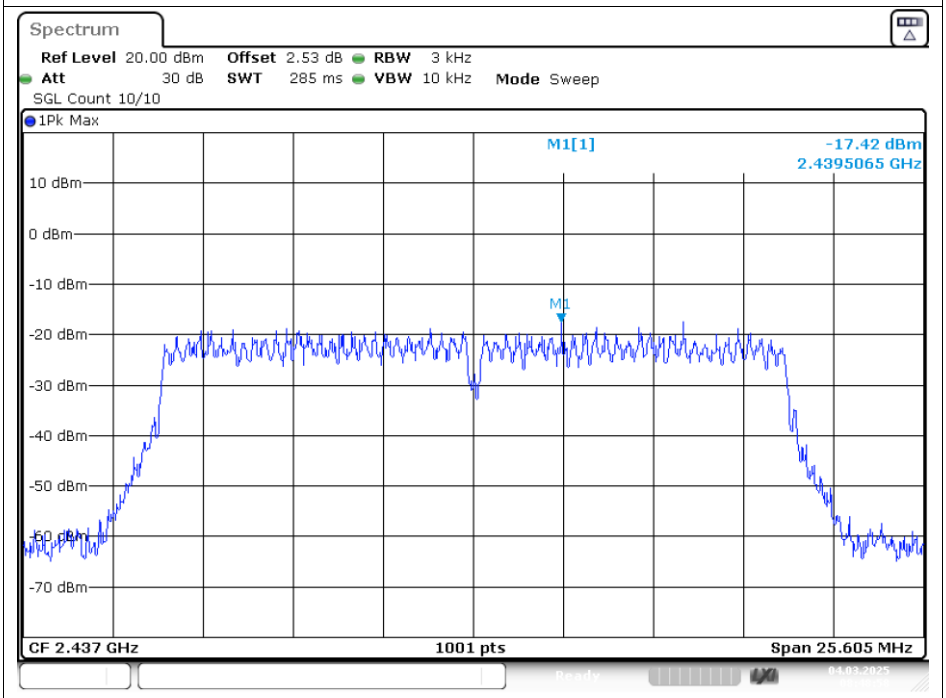
Date: 4.MAR.2025 08:43:10

PSD NVNT n20 2412MHz Ant1



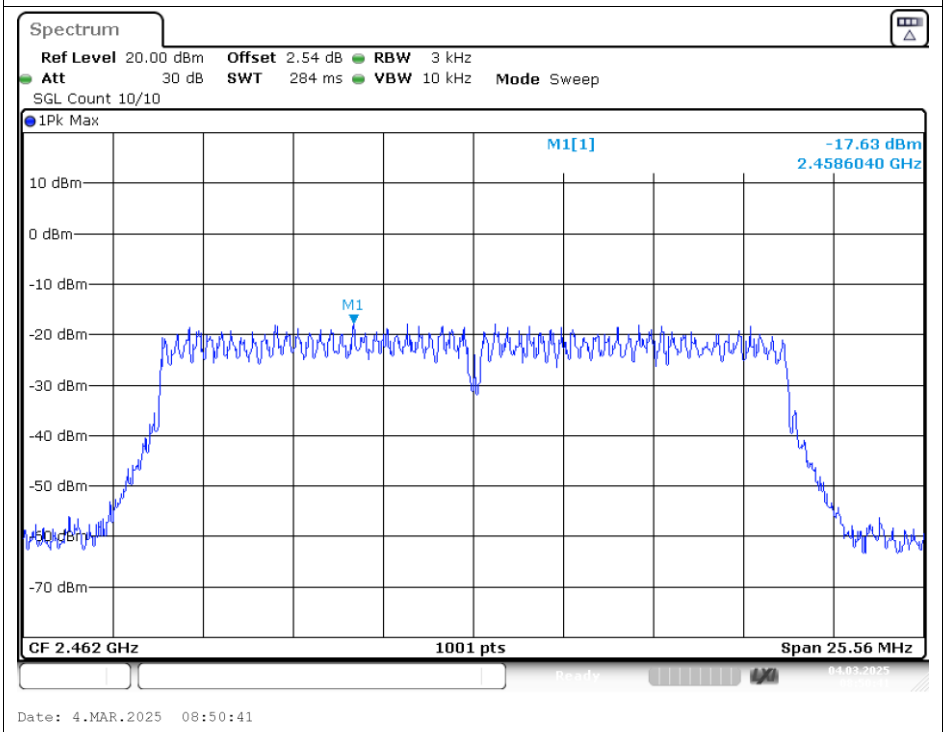
Date: 4.MAR.2025 08:46:45

PSD NVNT n20 2437MHz Ant1



Date: 4.MAR.2025 08:48:58

PSD NVNT n20 2462MHz Ant1

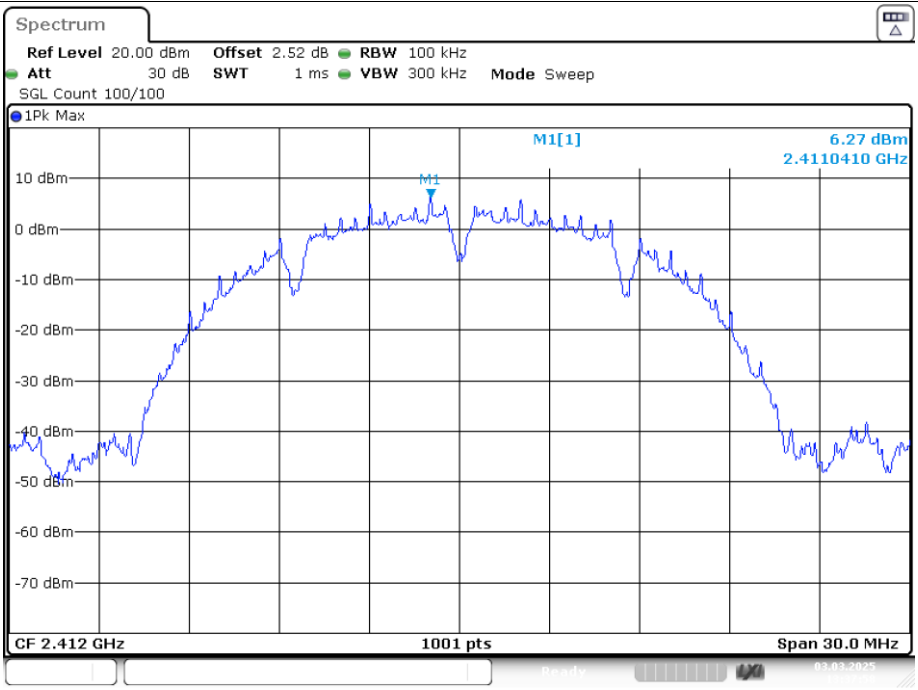


Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.21	-20	Pass
NVNT	b	2462	Ant1	-53.96	-20	Pass
NVNT	g	2412	Ant1	-39.92	-20	Pass
NVNT	g	2462	Ant1	-49.48	-20	Pass
NVNT	n20	2412	Ant1	-39.54	-20	Pass
NVNT	n20	2462	Ant1	-47.46	-20	Pass

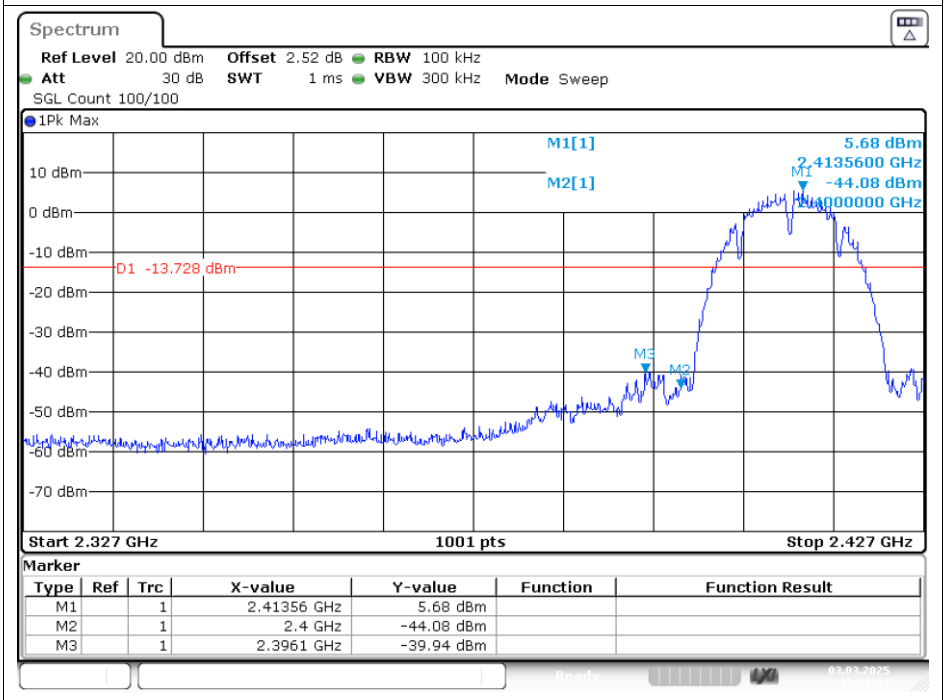
Test Graphs

Band Edge NVNT b 2412MHz Ant1 Ref



Date: 3.MAR.2025 13:37:59

Band Edge NVNT b 2412MHz Ant1 Emission

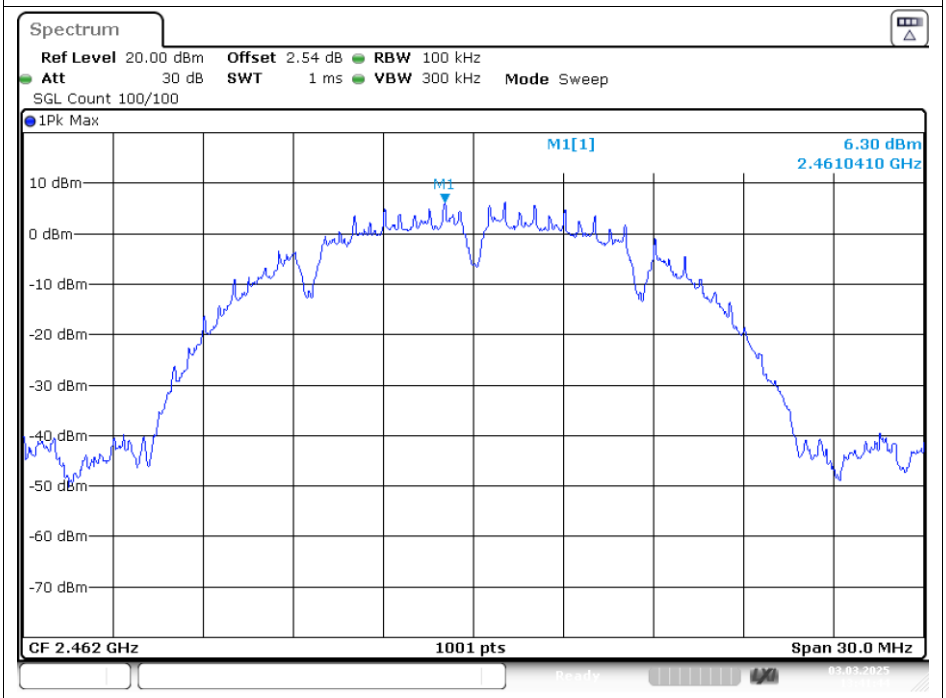


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41356 GHz	5.68 dBm		
M2		1	2.4 GHz	-44.08 dBm		
M3		1	2.3961 GHz	-39.94 dBm		

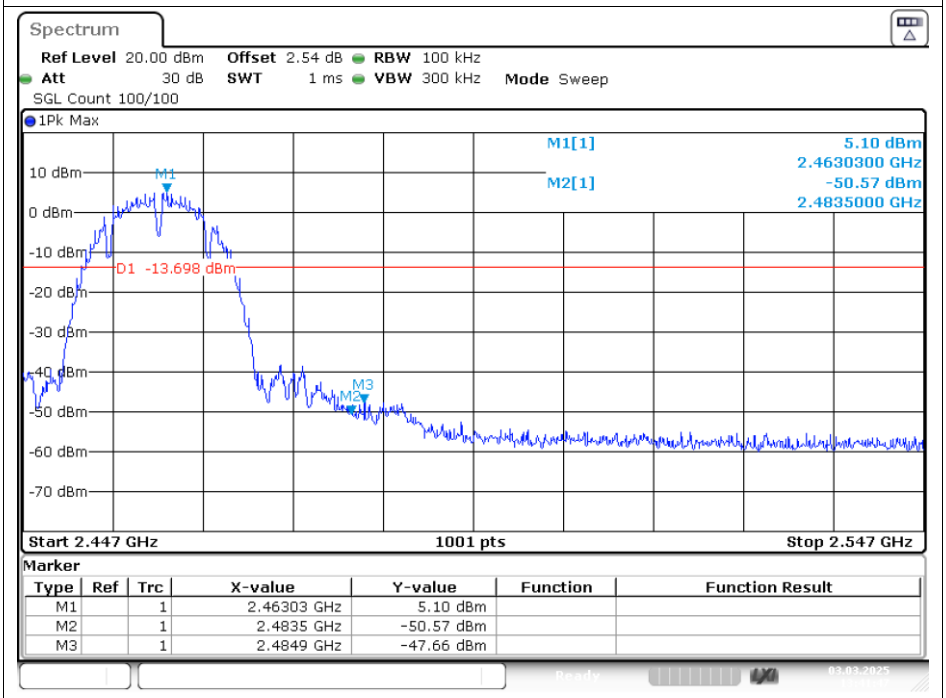
Date: 3.MAR.2025 13:38:02

Band Edge NVNT b 2462MHz Ant1 Ref



Date: 3.MAR.2025 13:41:44

Band Edge NVNT b 2462MHz Ant1 Emission

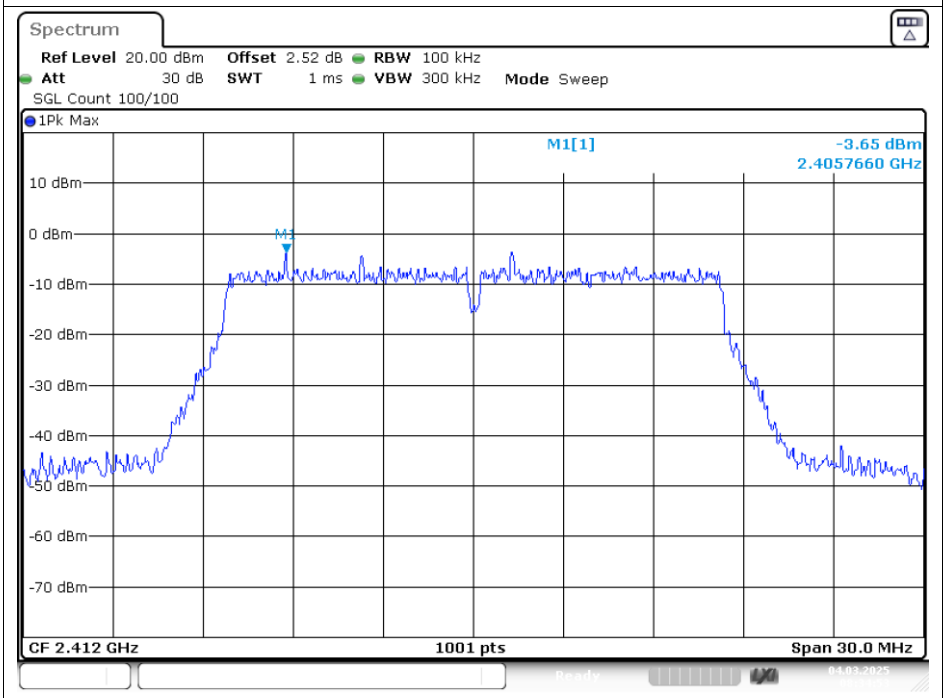


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46303 GHz	5.10 dBm		
M2		1	2.4835 GHz	-50.57 dBm		
M3		1	2.4849 GHz	-47.66 dBm		

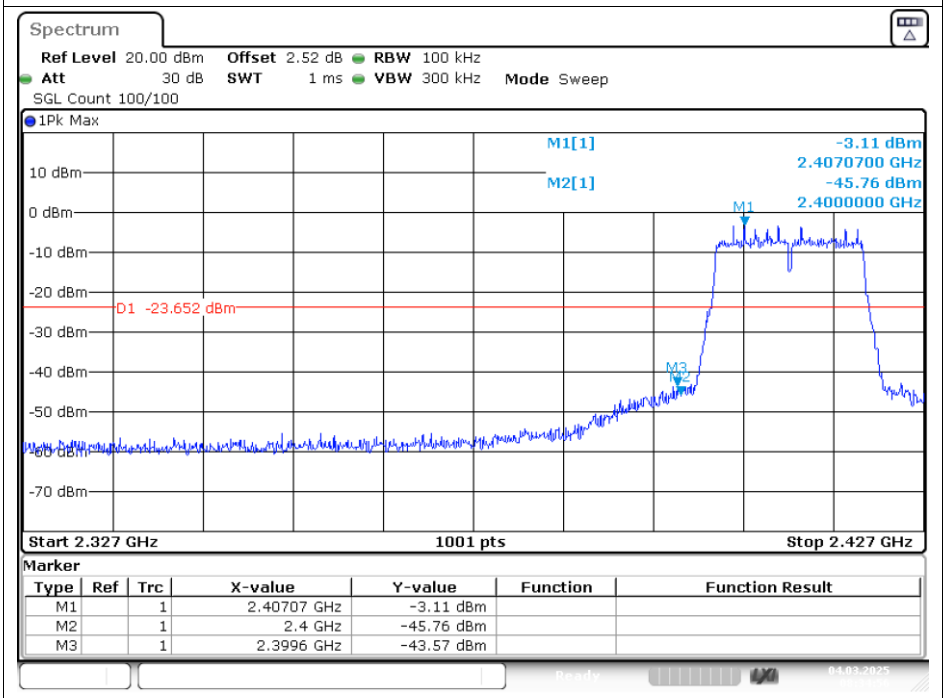
Date: 3.MAR.2025 13:41:47

Band Edge NVNT g 2412MHz Ant1 Ref



Date: 4.MAR.2025 08:34:53

Band Edge NVNT g 2412MHz Ant1 Emission

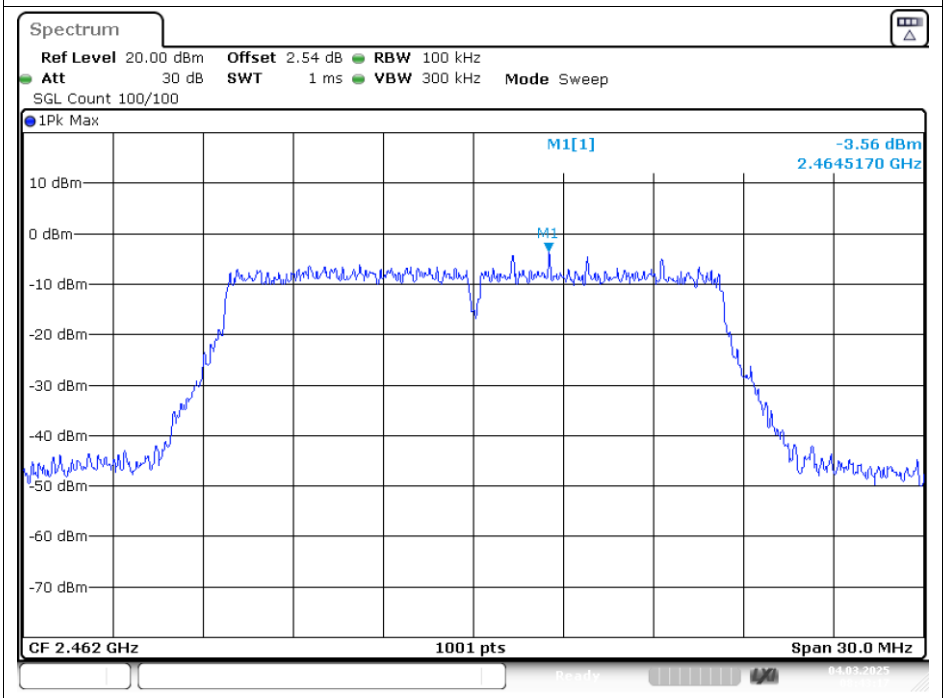


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40707 GHz	-3.11 dBm		
M2		1	2.4 GHz	-45.76 dBm		
M3		1	2.3996 GHz	-43.57 dBm		

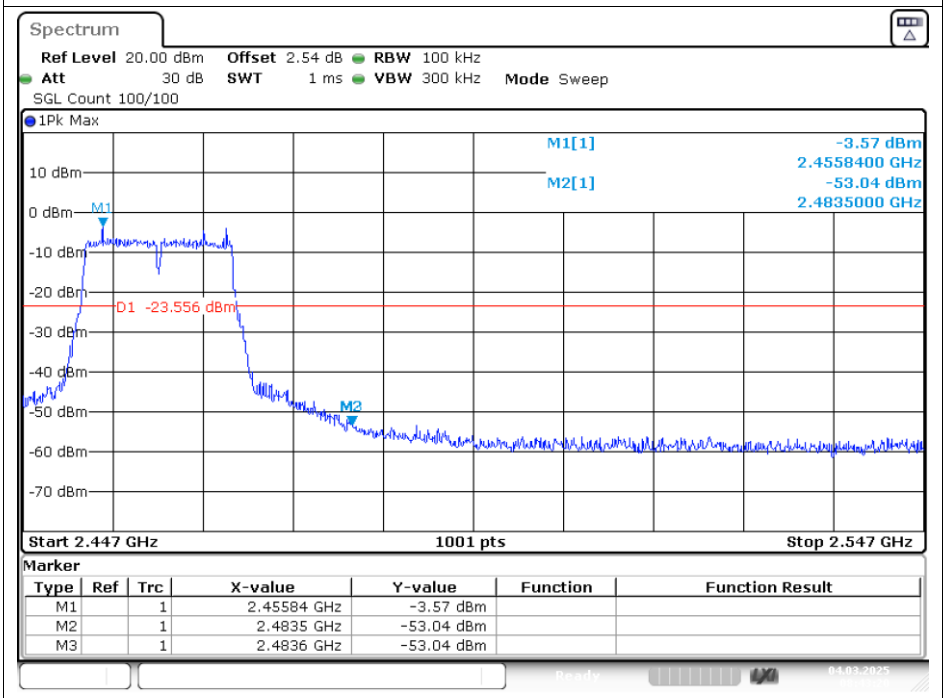
Date: 4.MAR.2025 08:34:57

Band Edge NVNT g 2462MHz Ant1 Ref



Date: 4.MAR.2025 08:43:17

Band Edge NVNT g 2462MHz Ant1 Emission

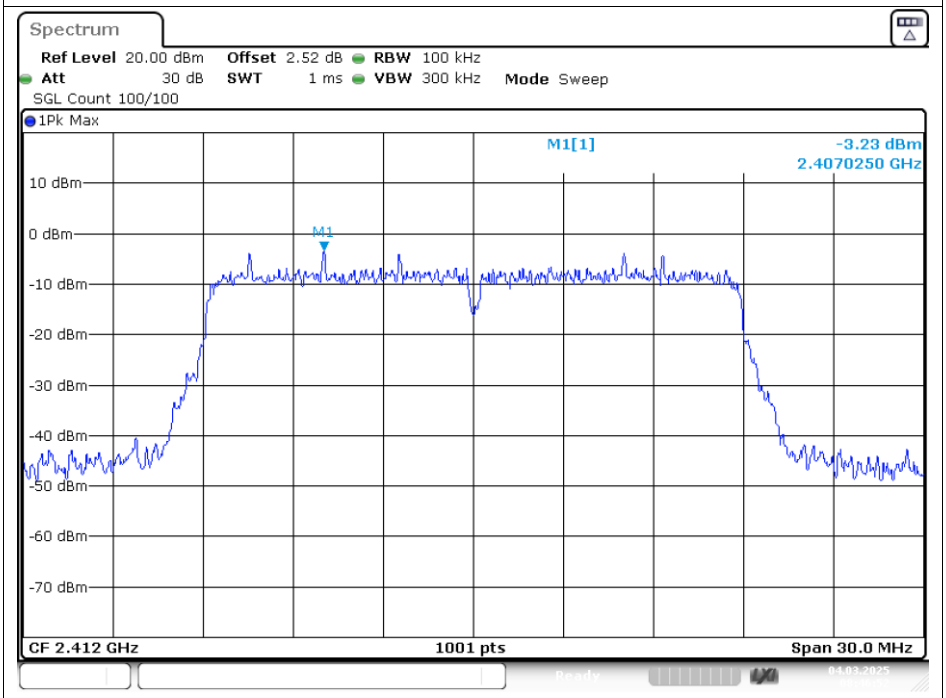


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45584 GHz	-3.57 dBm		
M2		1	2.4835 GHz	-53.04 dBm		
M3		1	2.4836 GHz	-53.04 dBm		

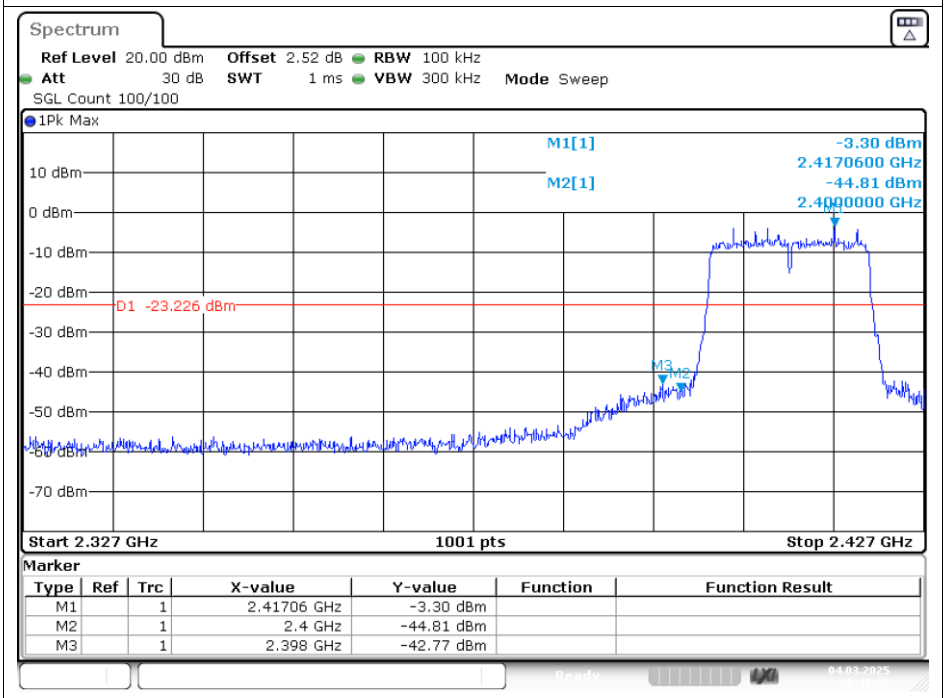
Date: 4.MAR.2025 08:43:20

Band Edge NVNT n20 2412MHz Ant1 Ref



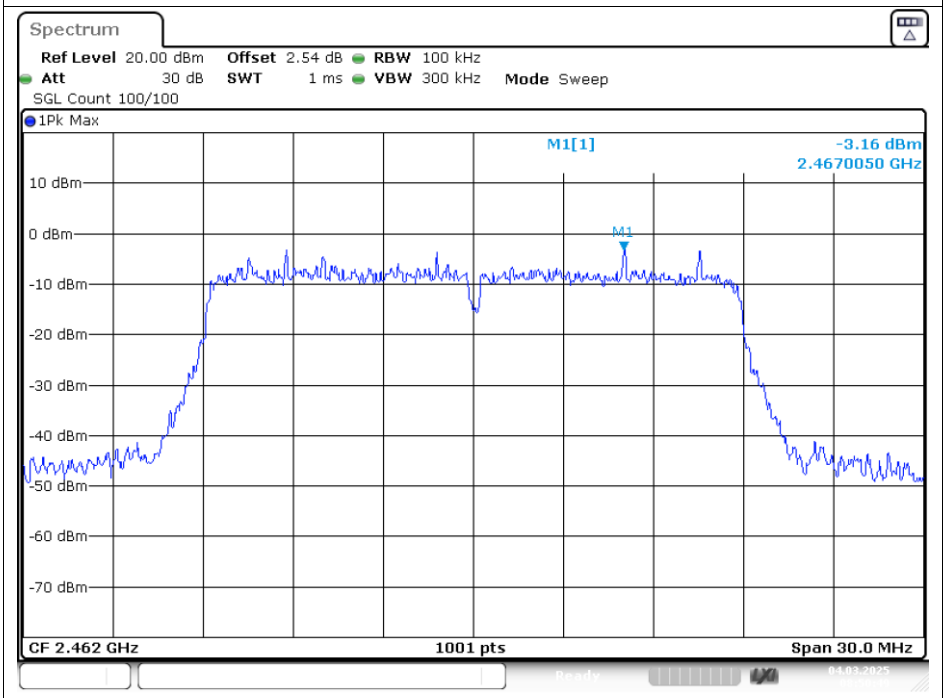
Date: 4.MAR.2025 08:46:52

Band Edge NVNT n20 2412MHz Ant1 Emission



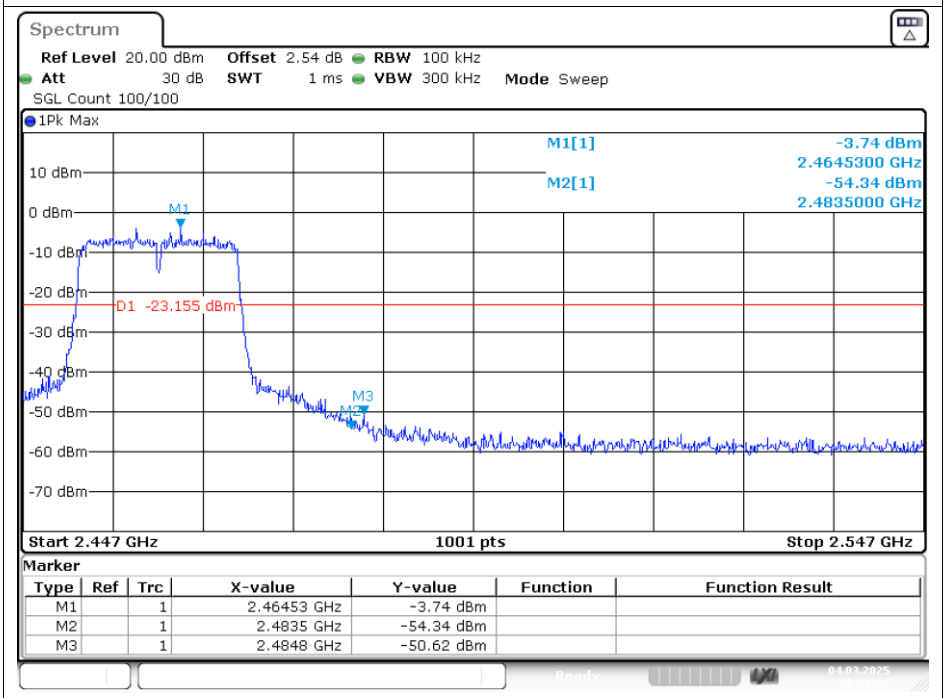
Date: 4.MAR.2025 08:46:55

Band Edge NVNT n20 2462MHz Ant1 Ref



Date: 4.MAR.2025 08:50:48

Band Edge NVNT n20 2462MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46453 GHz	-3.74 dBm		
M2		1	2.4835 GHz	-54.34 dBm		
M3		1	2.4848 GHz	-50.62 dBm		

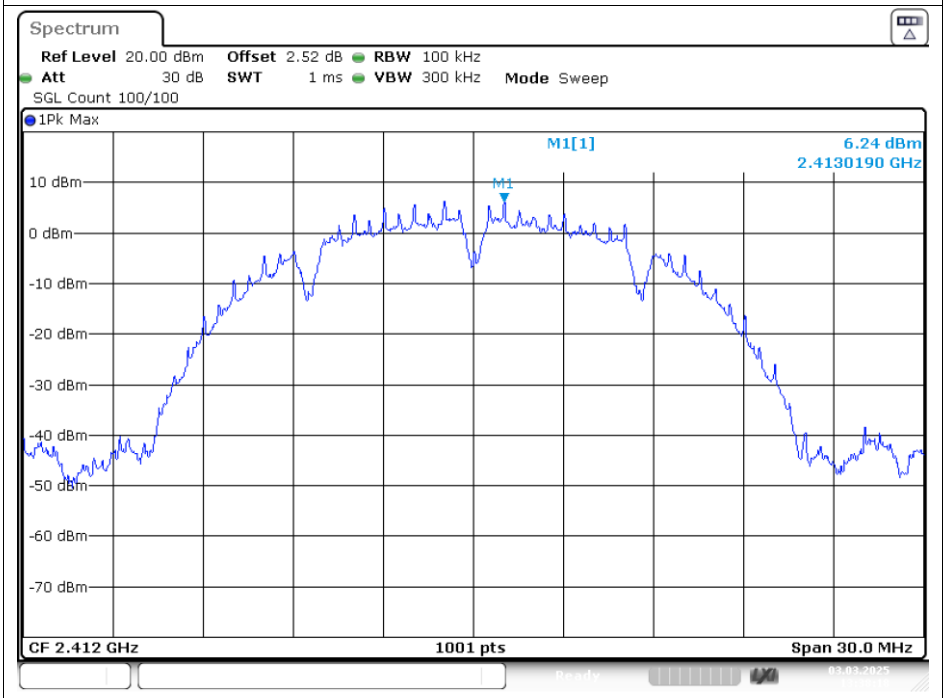
Date: 4.MAR.2025 08:50:51

Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.46	-20	Pass
NVNT	b	2437	Ant1	-46.6	-20	Pass
NVNT	b	2462	Ant1	-48.12	-20	Pass
NVNT	g	2412	Ant1	-46.27	-20	Pass
NVNT	g	2437	Ant1	-45.71	-20	Pass
NVNT	g	2462	Ant1	-46.4	-20	Pass
NVNT	n20	2412	Ant1	-47.12	-20	Pass
NVNT	n20	2437	Ant1	-46.41	-20	Pass
NVNT	n20	2462	Ant1	-44.04	-20	Pass

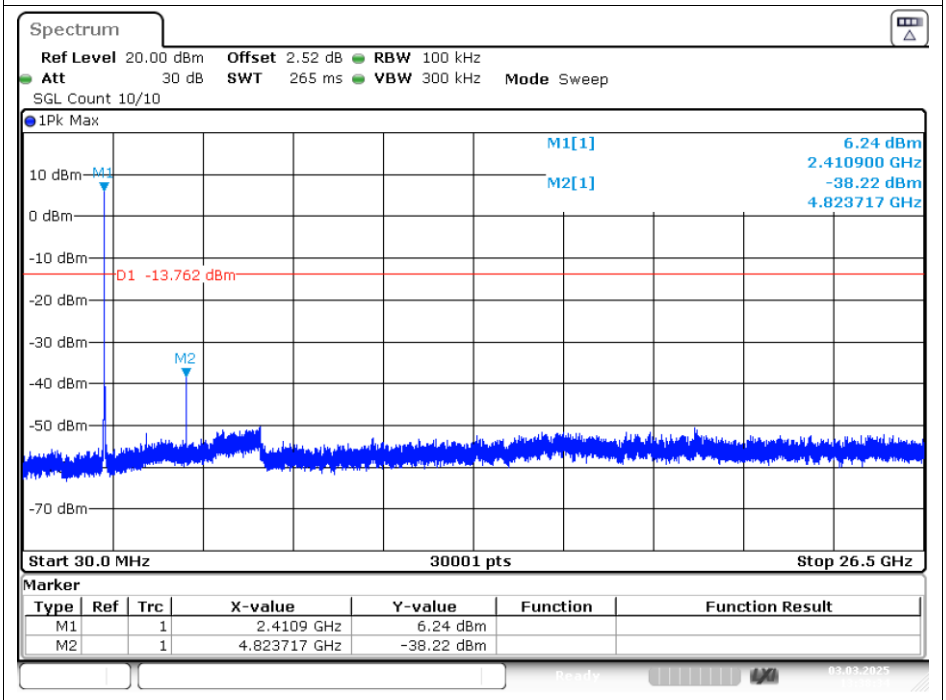
Test Graphs

Tx. Spurious NVNT b 2412MHz Ant1 Ref



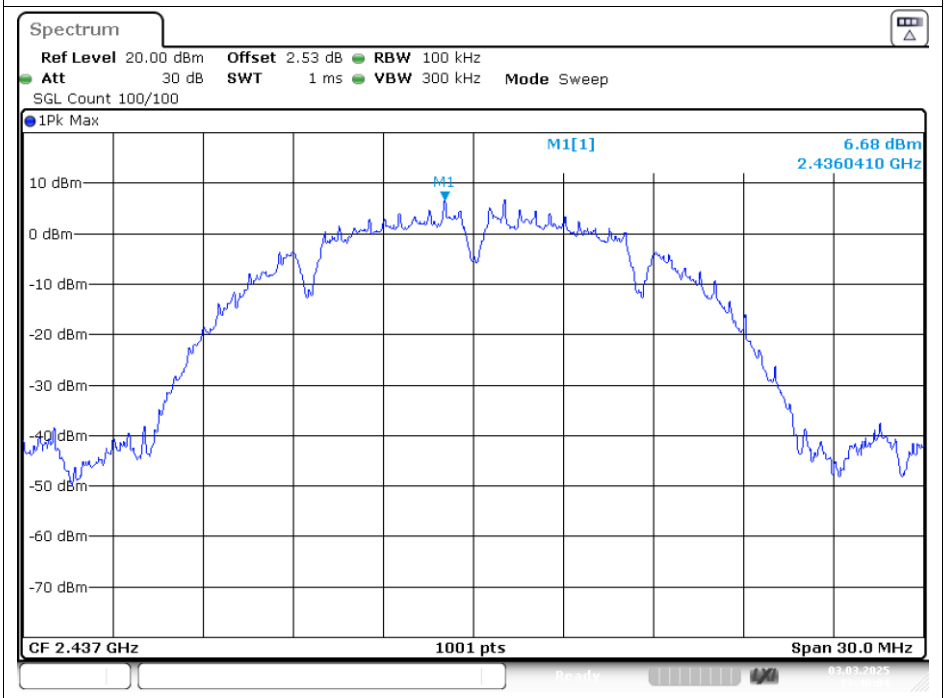
Date: 3.MAR.2025 13:38:19

Tx. Spurious NVNT b 2412MHz Ant1 Emission



Date: 3.MAR.2025 13:38:34

Tx. Spurious NVNT b 2437MHz Ant1 Ref



Date: 3.MAR.2025 13:40:04

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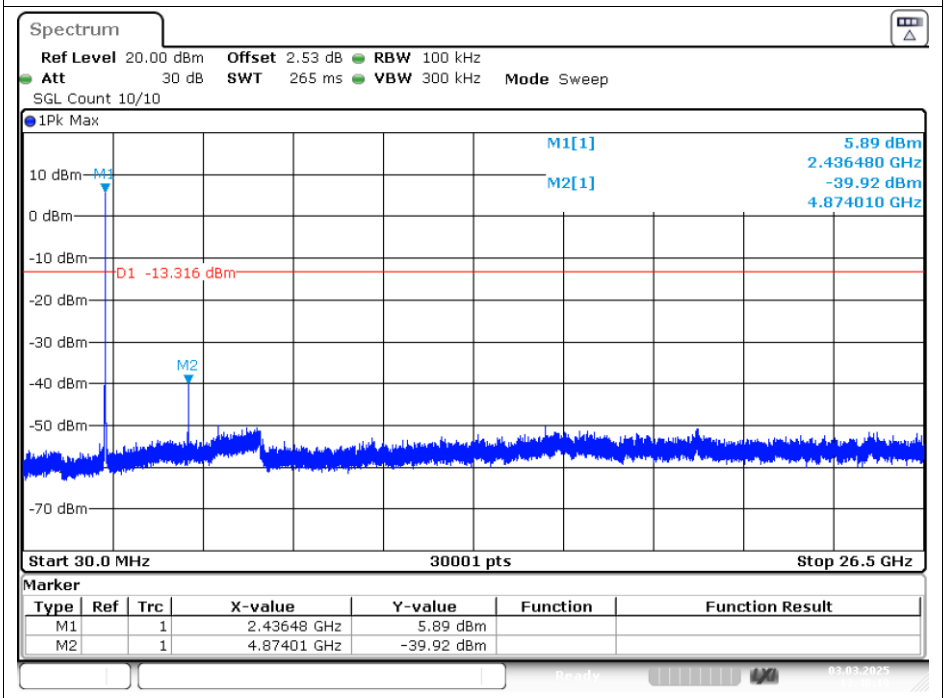
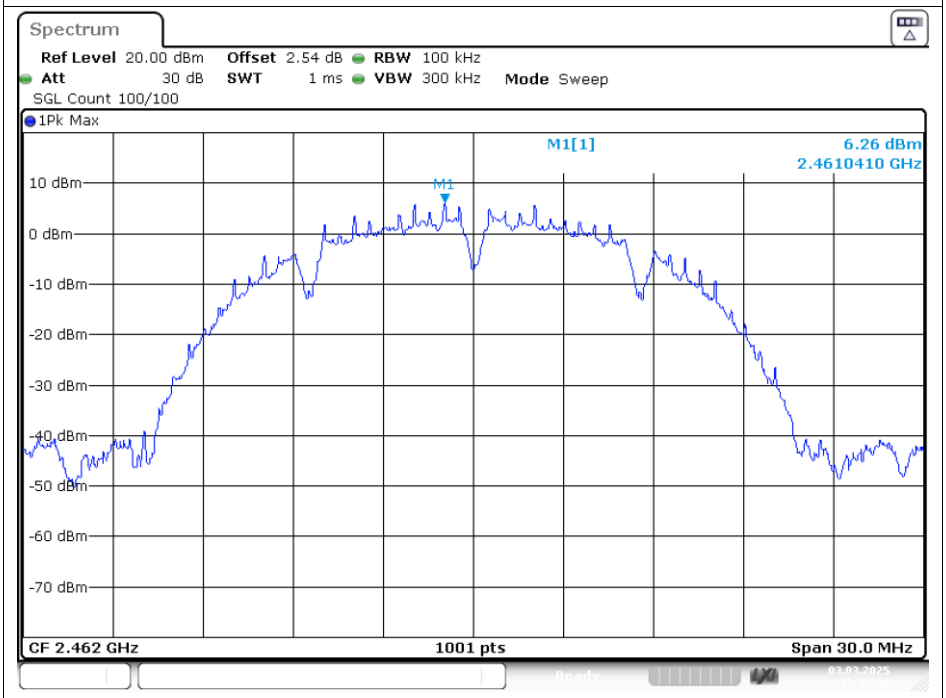


Date: 3.MAR.2025 13:40:19

Tx. Spurious NVNT b 2462MHz Ant1 Ref



Date: 3.MAR.2025 13:42:00

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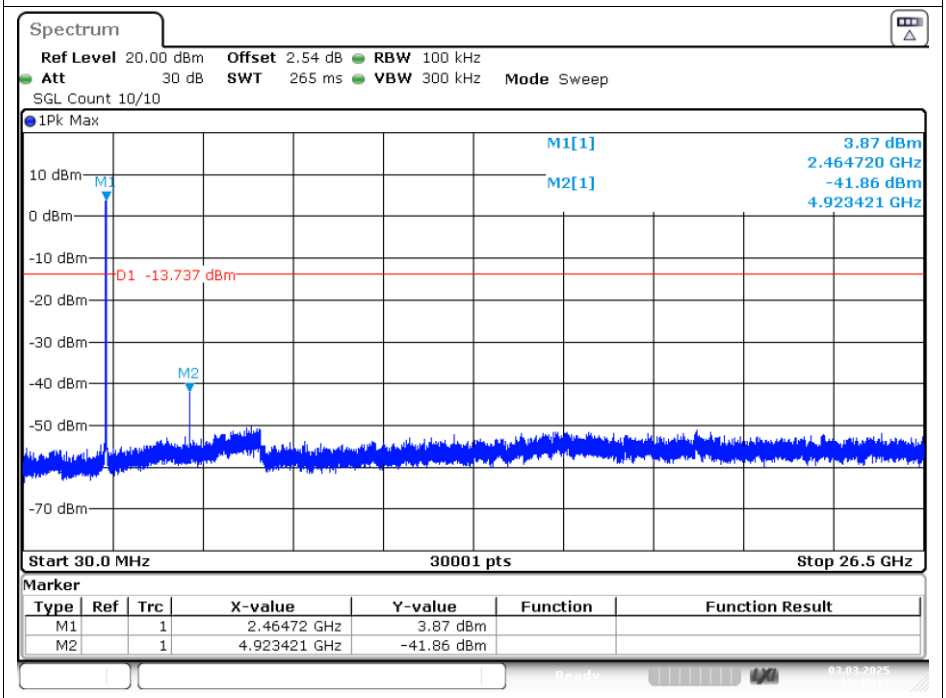
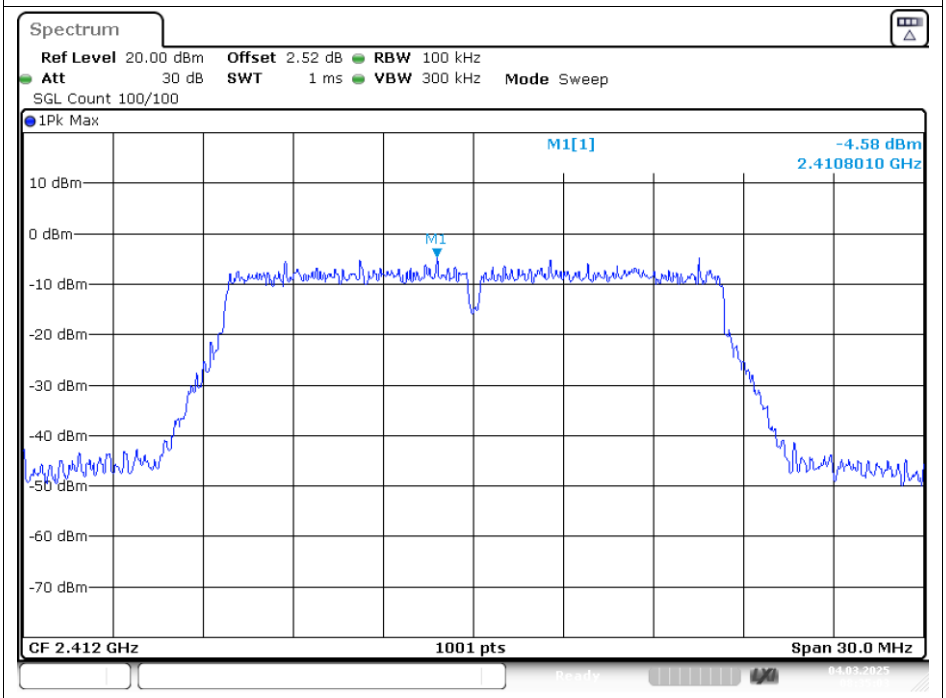


Date: 3.MAR.2025 13:42:15

Tx. Spurious NVNT g 2412MHz Ant1 Ref



Date: 4.MAR.2025 08:35:03

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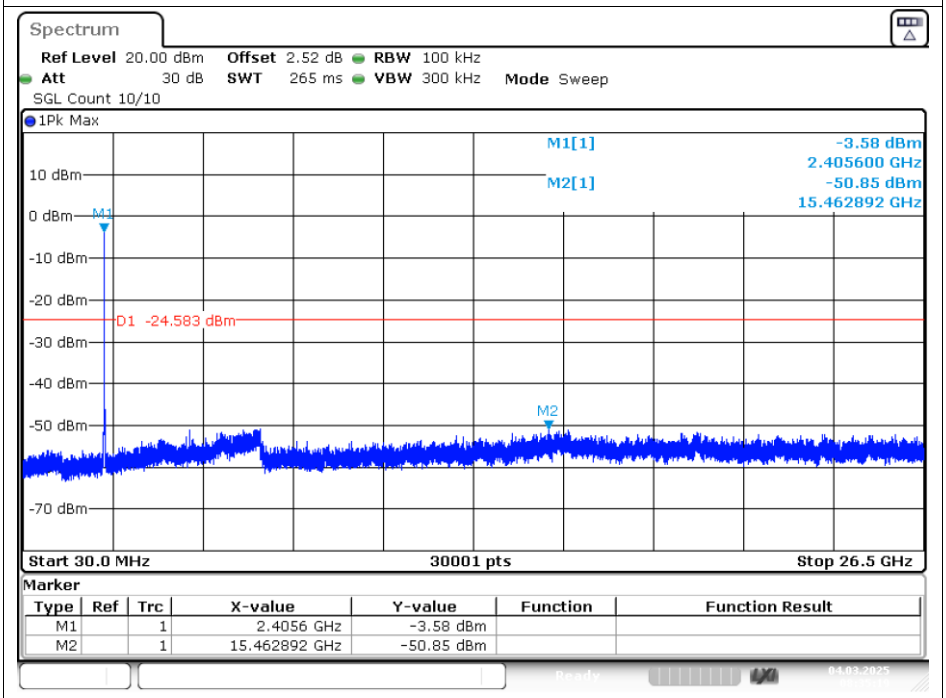

Date: 4.MAR.2025 08:35:19

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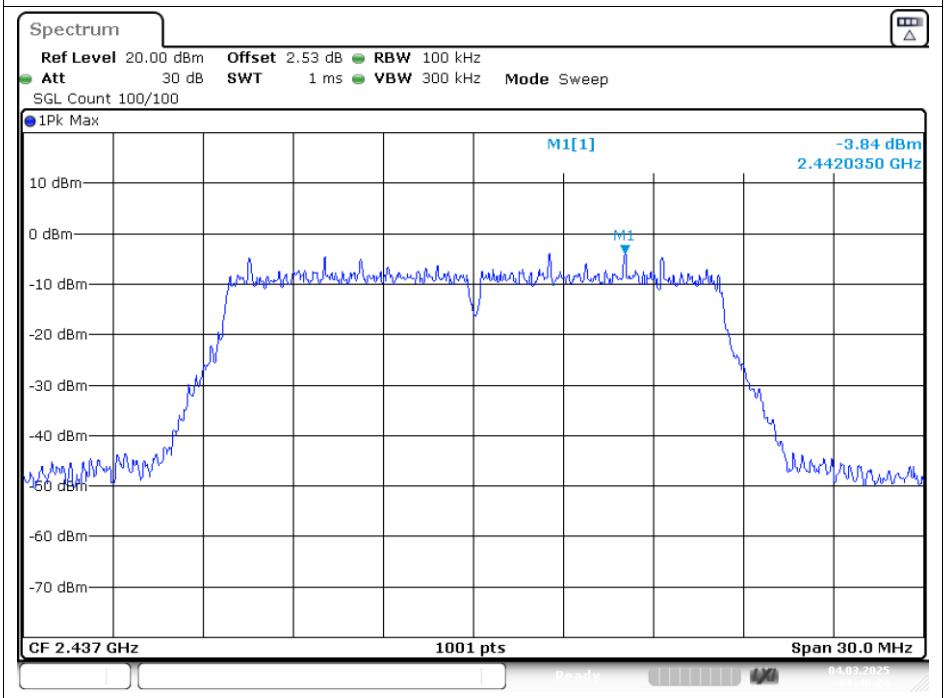

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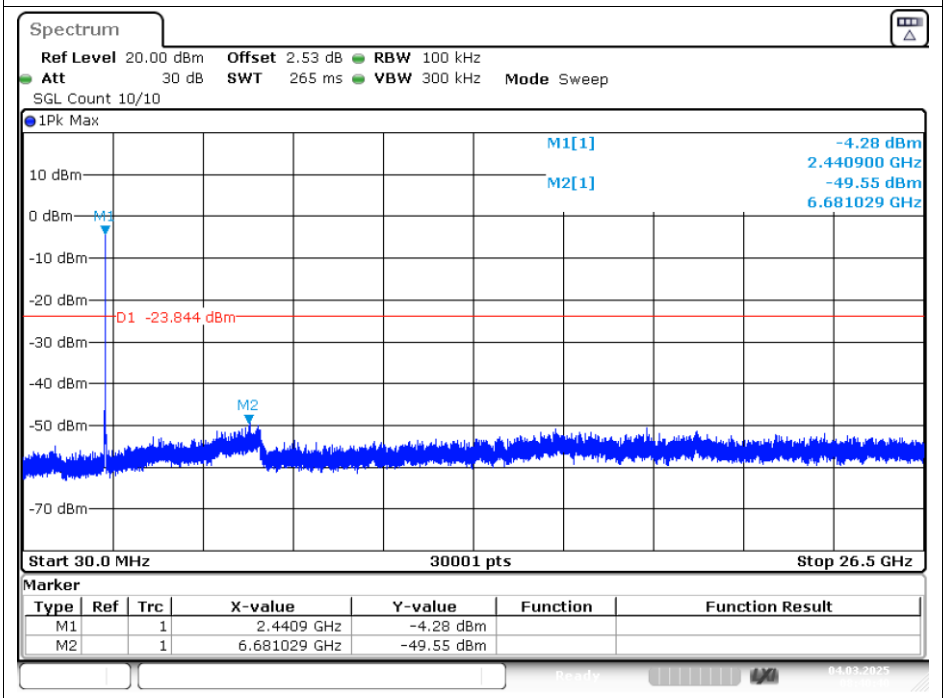

Date: 4.MAR.2025 08:40:39

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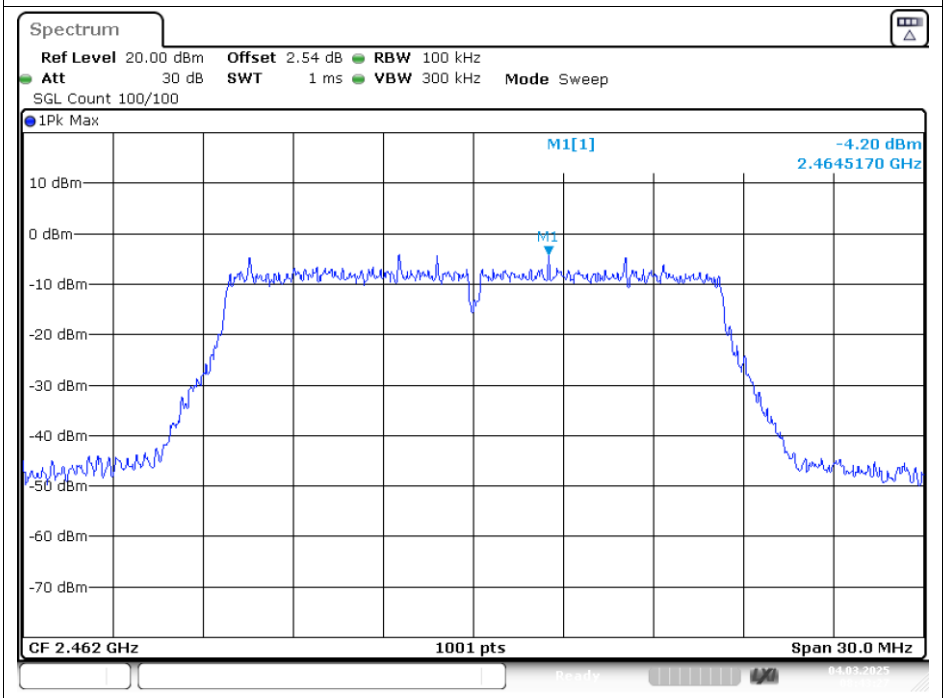

Date: 4.MAR.2025 08:43:27

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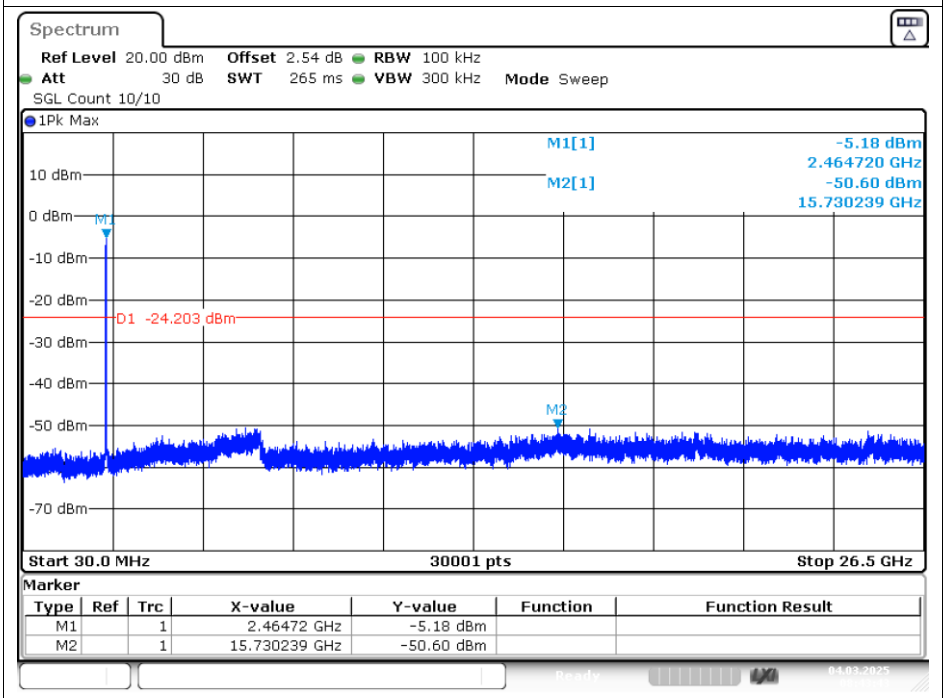
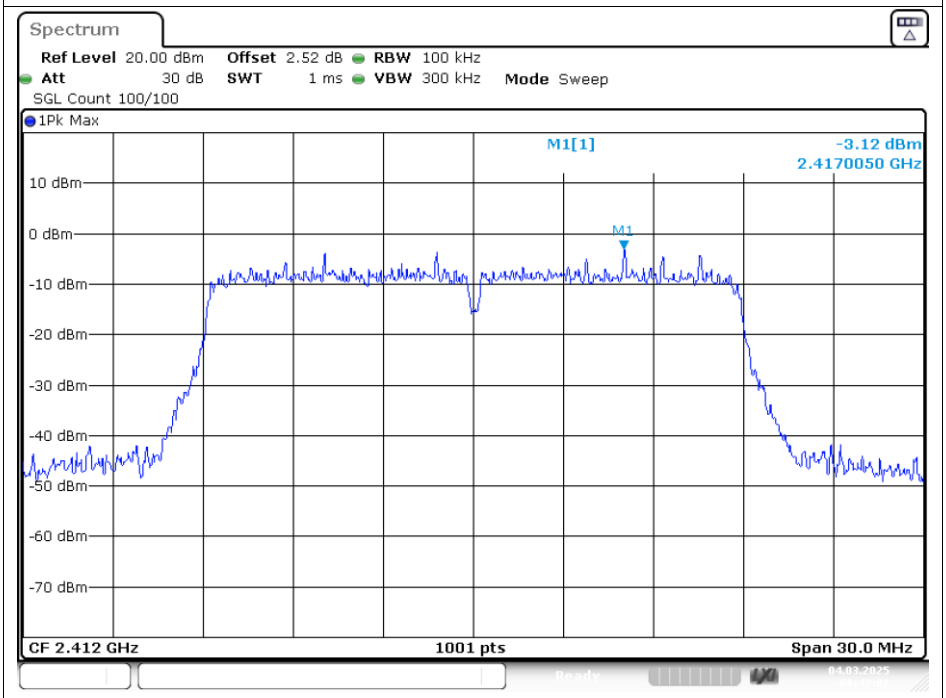


Date: 4.MAR.2025 08:43:43

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Date: 4.MAR.2025 08:47:02

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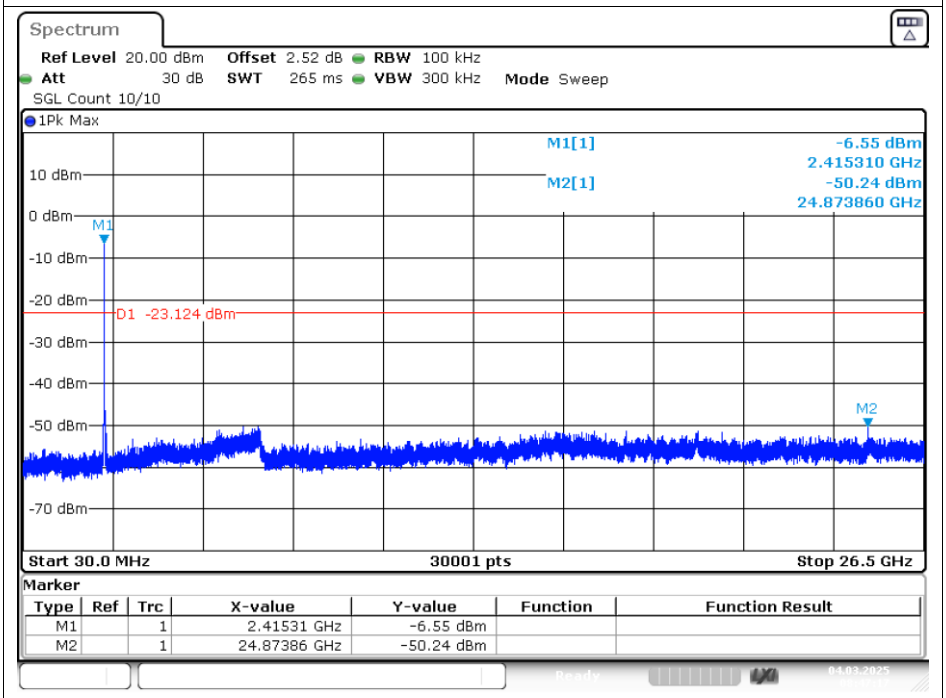

Date: 4.MAR.2025 08:47:17

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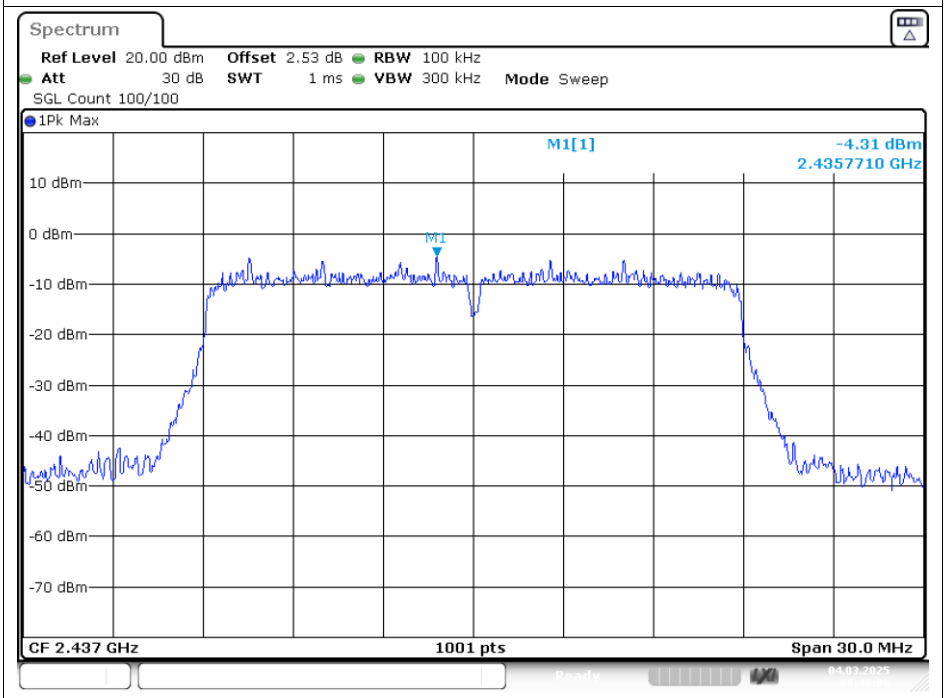

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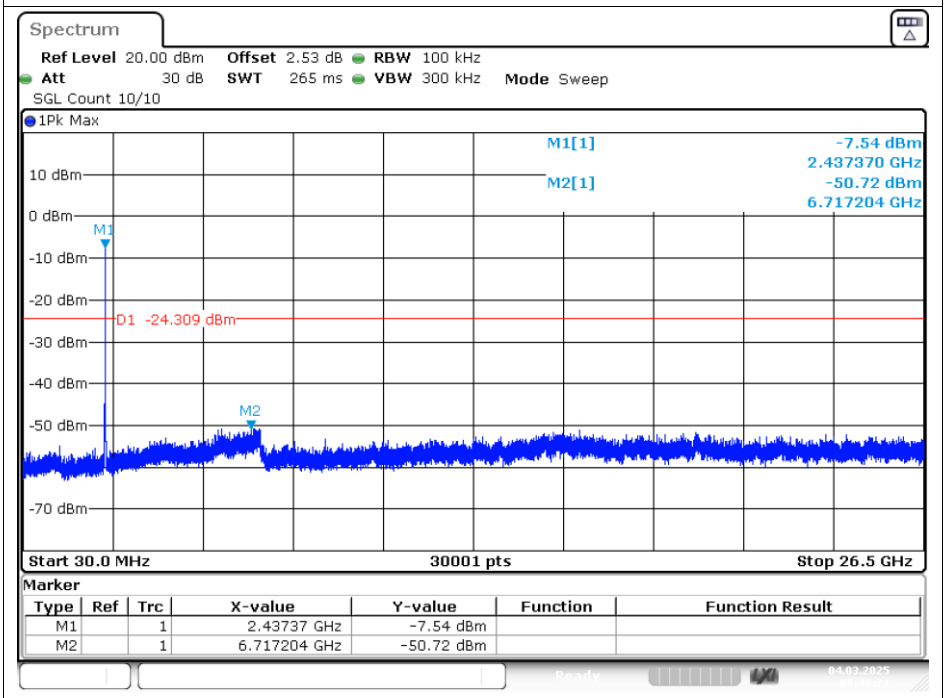
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



Date: 4.MAR.2025 08:49:20

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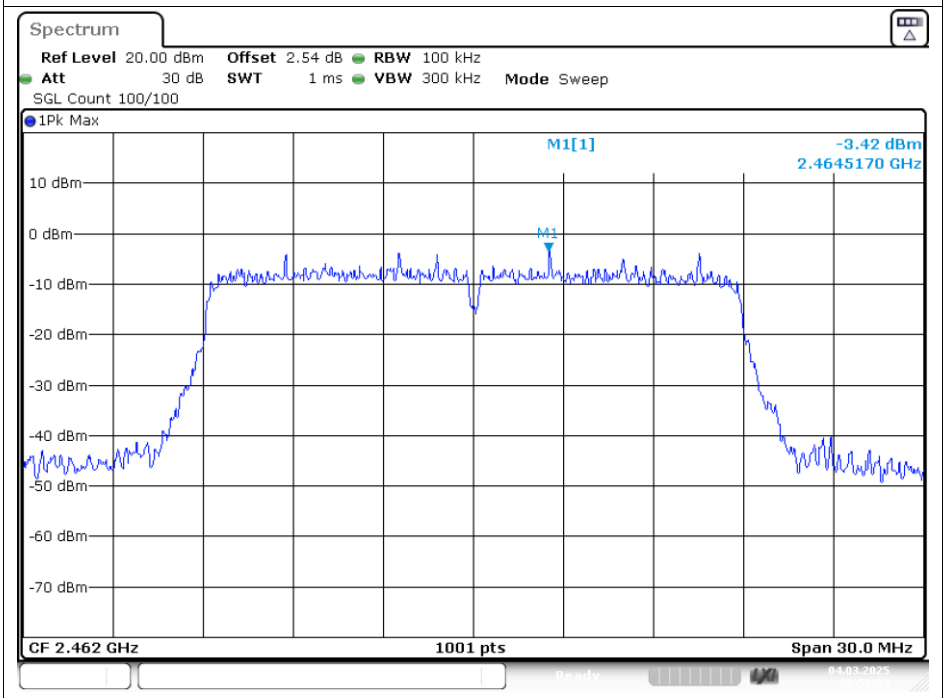

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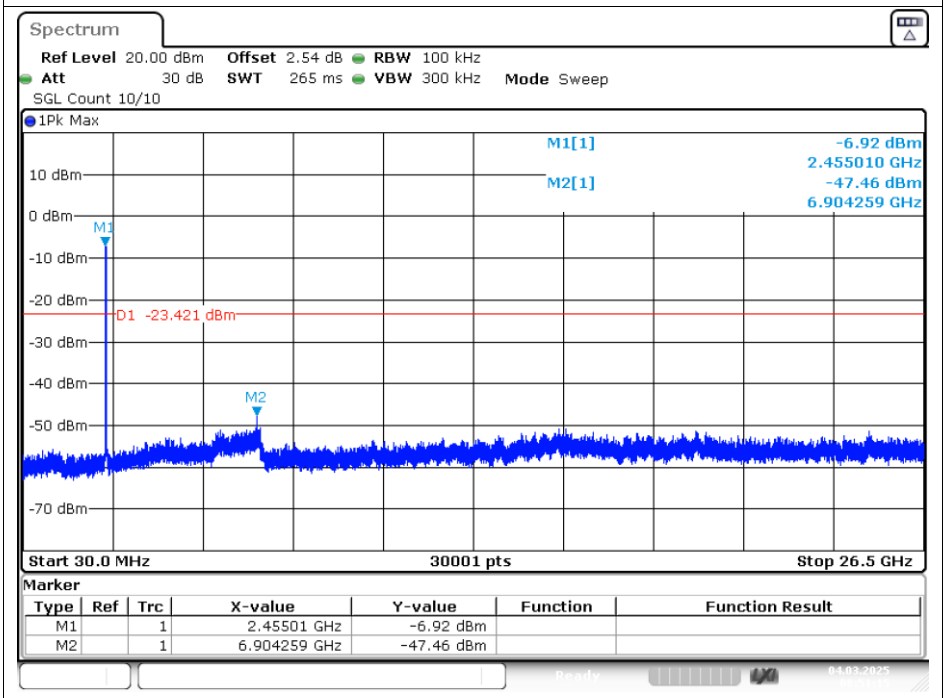
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



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