Table of Contents

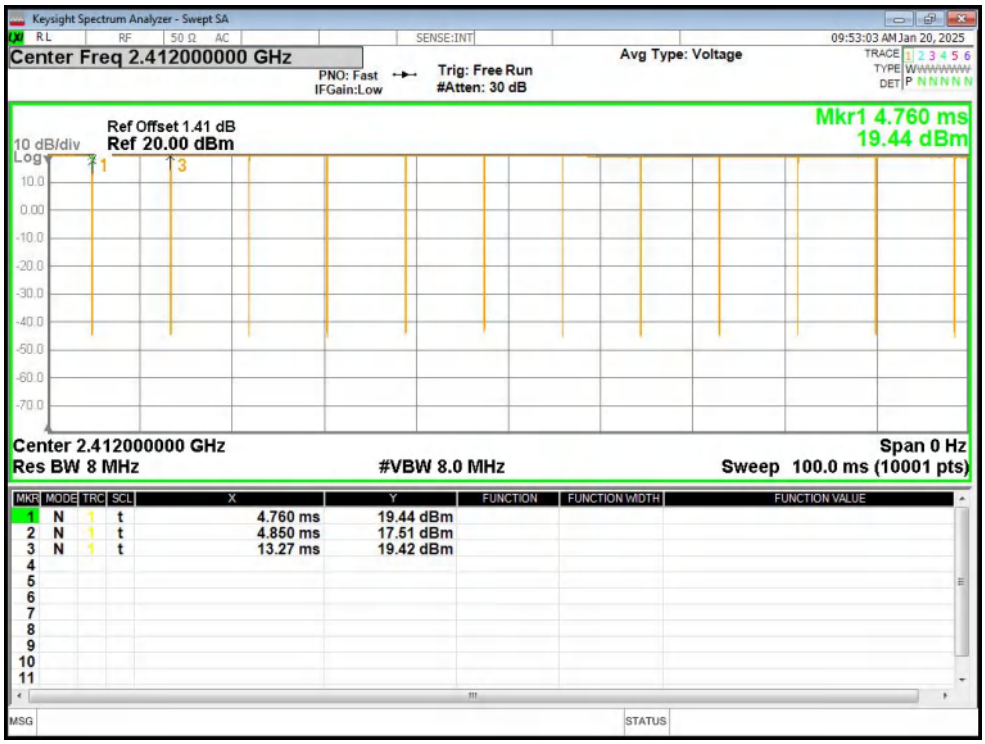
FCC ID: 2BGCX-WRADCB01

FCC_2.4GWIFI(Part15.247) Test Data

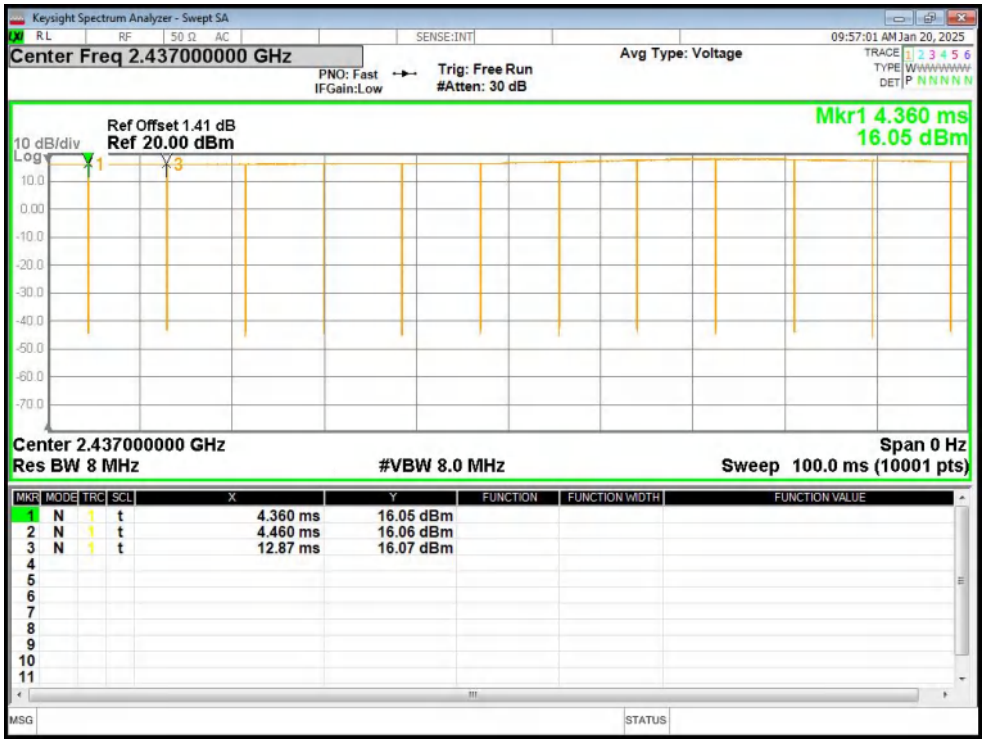
1.Duty Cycle

Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	2412	98.94	0	0.12
b	2437	98.82	0	0.12
b	2462	98.94	0	0.12
g	2412	93.96	0.27	0.71
g	2437	93.96	0.27	0.71
g	2462	93.92	0.27	0.72
n20	2412	93.57	0.29	0.76
n20	2437	93.57	0.29	0.76
n20	2462	93.57	0.29	0.76
n40	2422	87.84	0.56	1.54
n40	2437	87.84	0.56	1.54
n40	2452	87.84	0.56	1.54

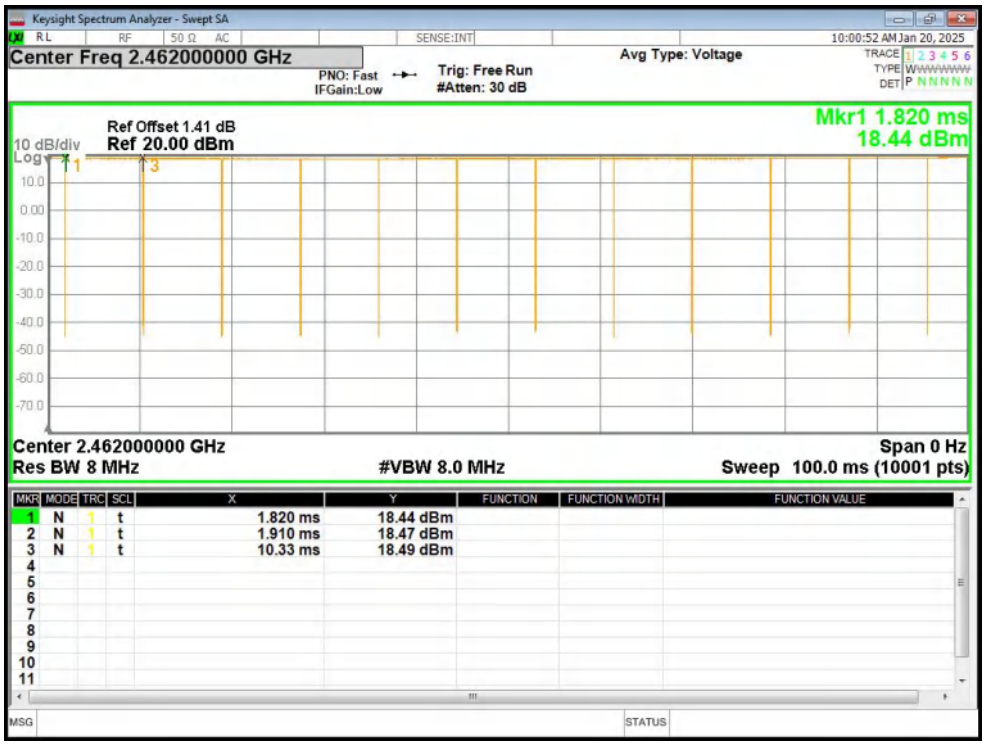
Test Graphs
Duty Cycle NVNT b 2412MHz Ant1



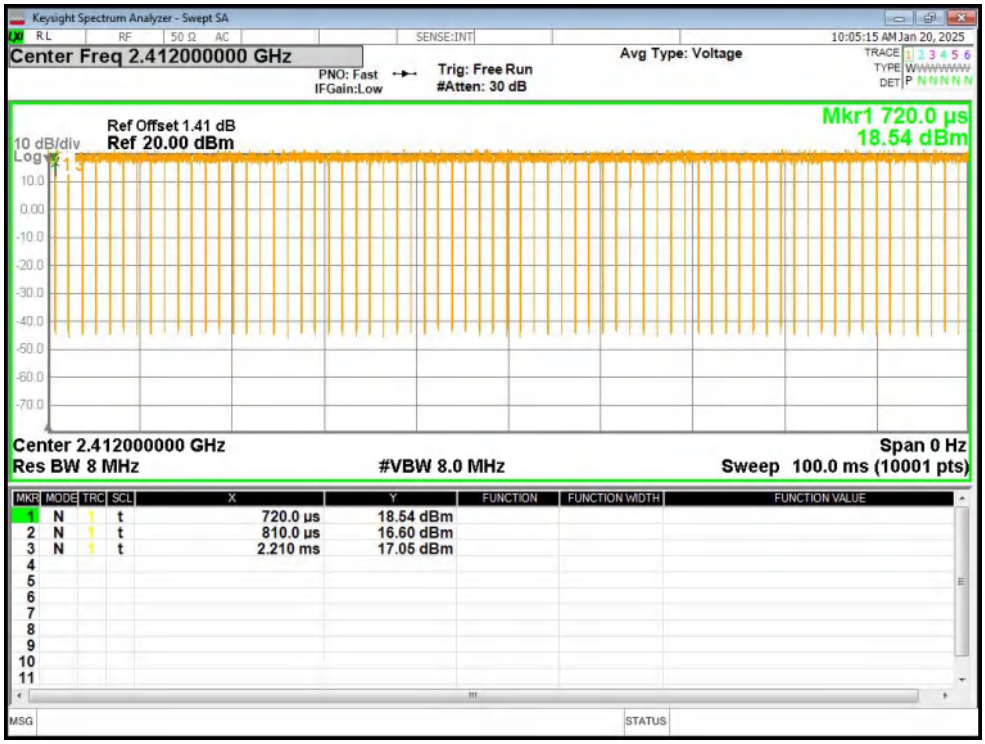
Duty Cycle NVNT b 2437MHz Ant1



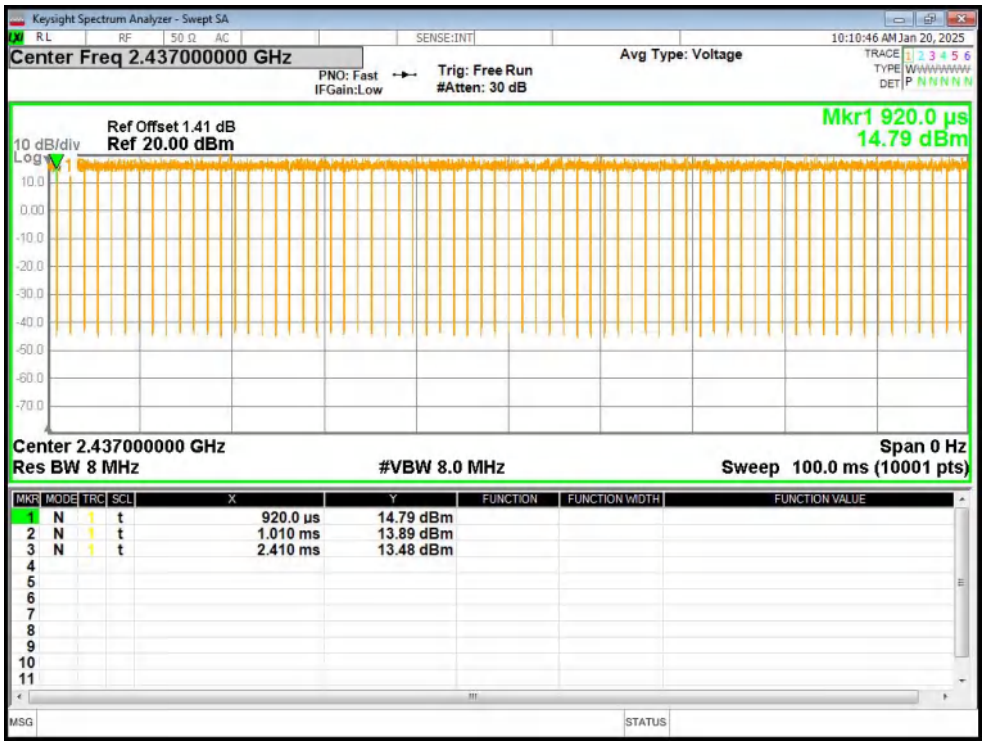
Duty Cycle NVNT b 2462MHz Ant1



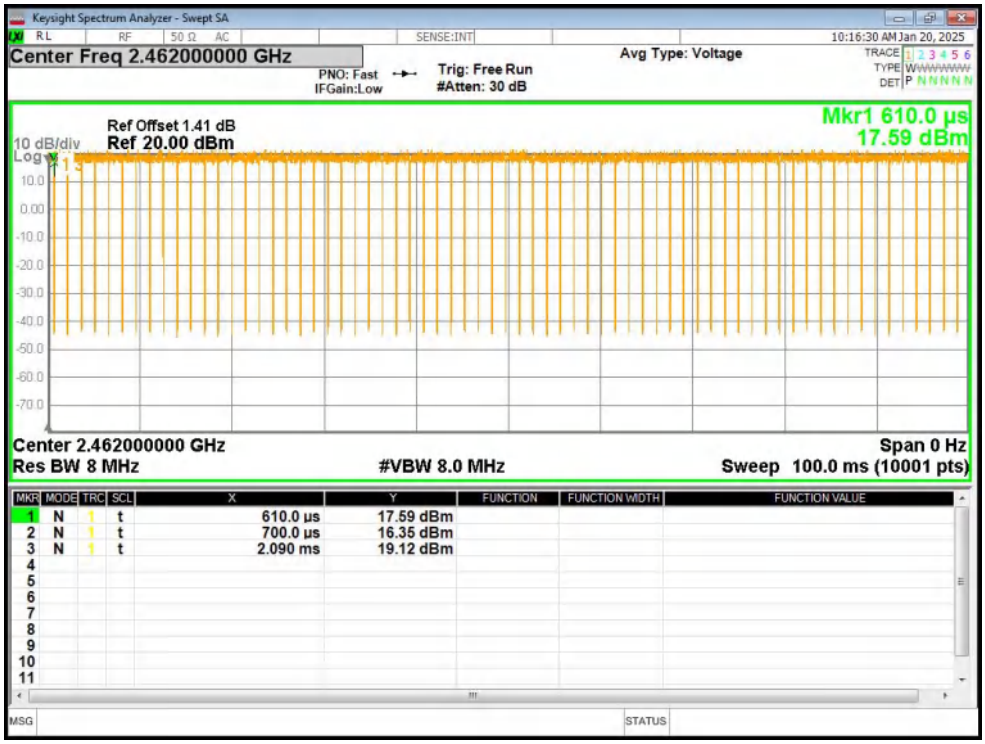
Duty Cycle NVNT g 2412MHz Ant1



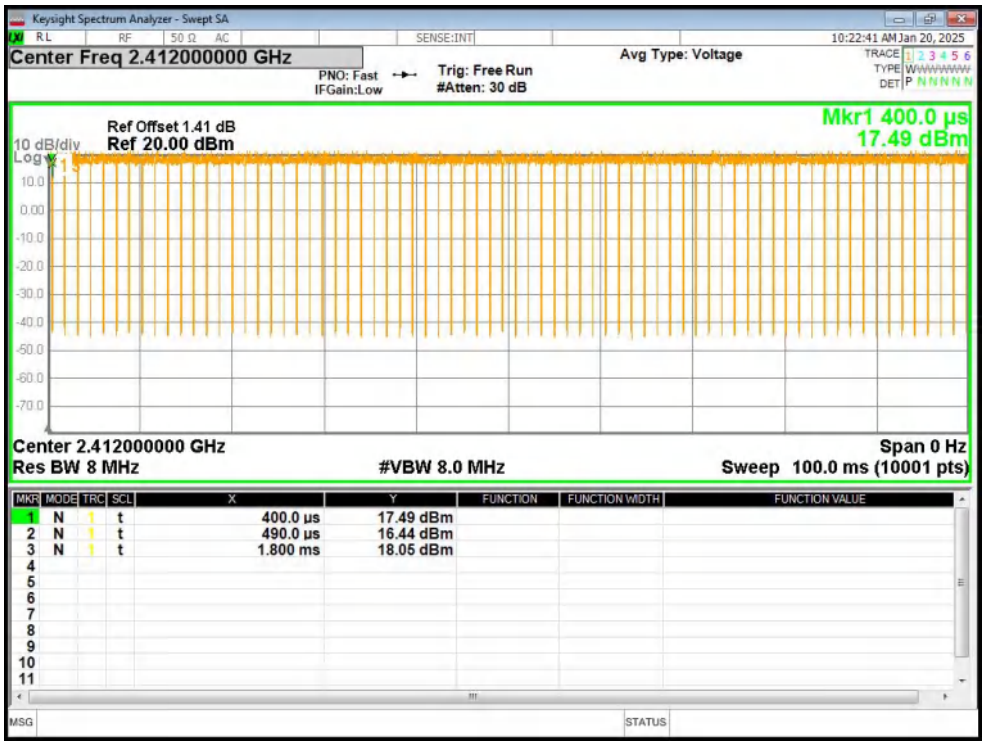
Duty Cycle NVNT g 2437MHz Ant1



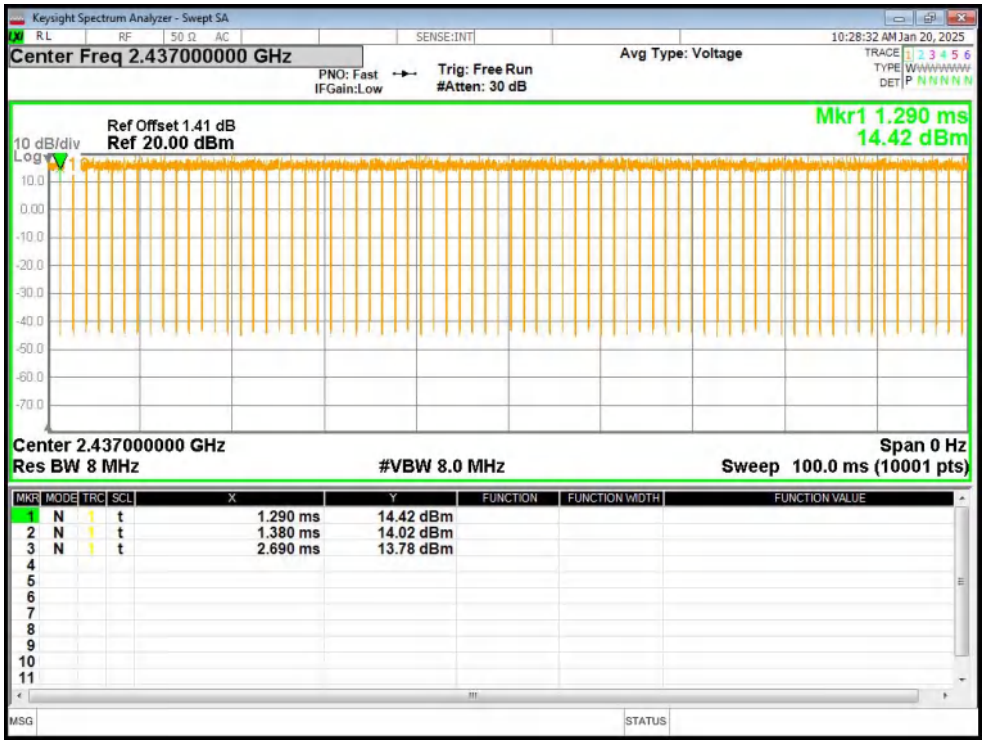
Duty Cycle NVNT g 2462MHz Ant1



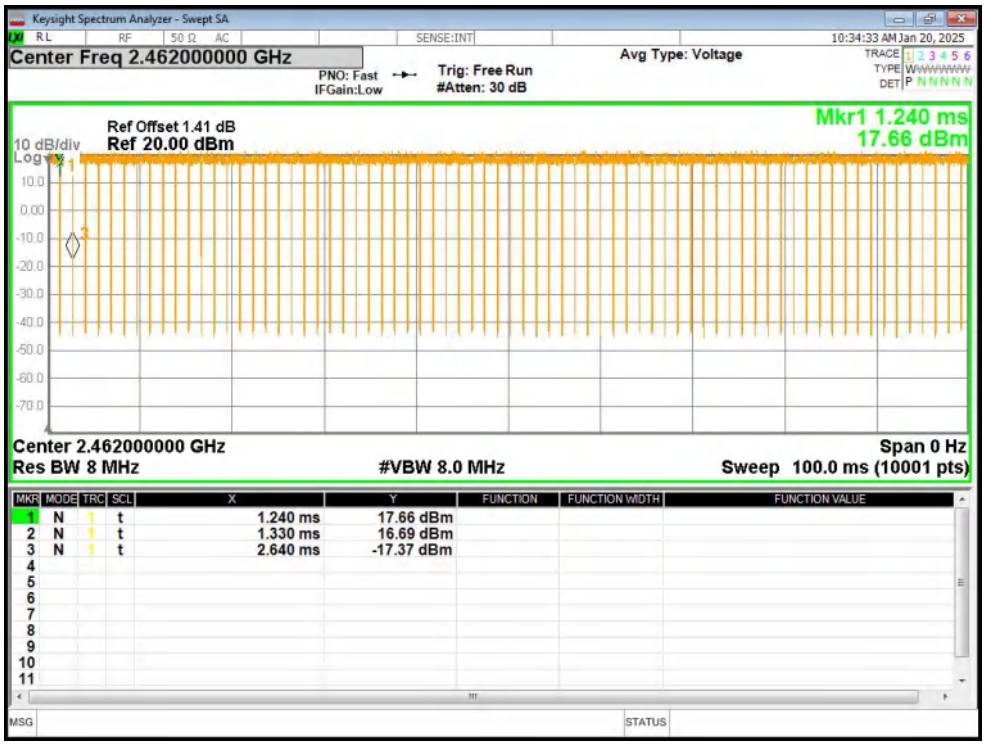
Duty Cycle NVNT n20 2412MHz Ant1



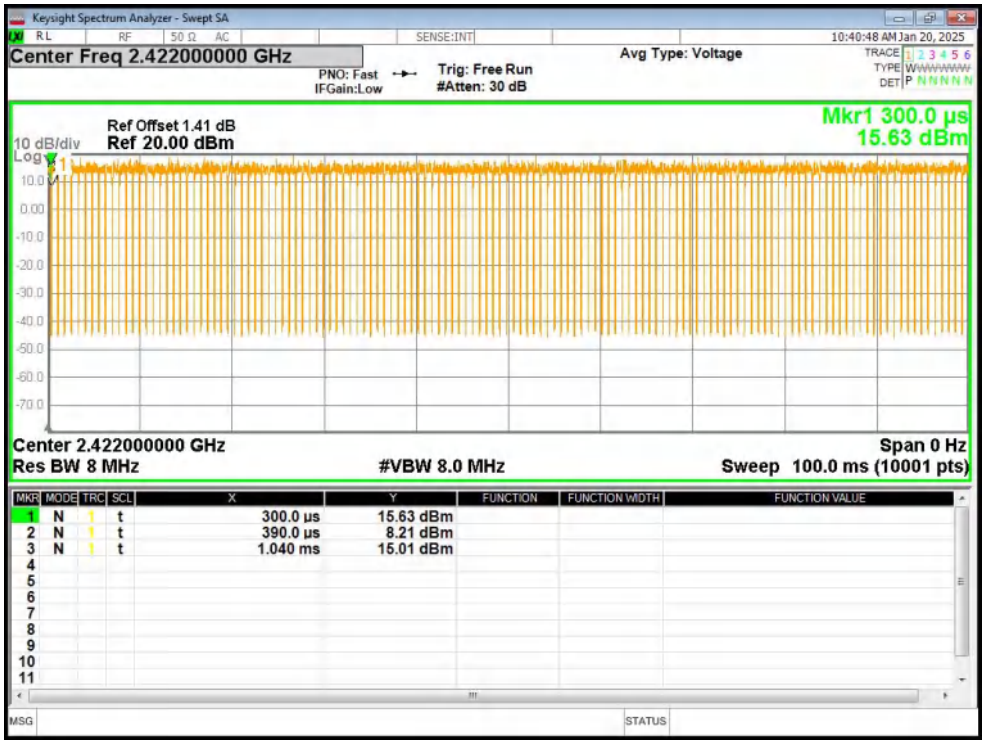
Duty Cycle NVNT n20 2437MHz Ant1



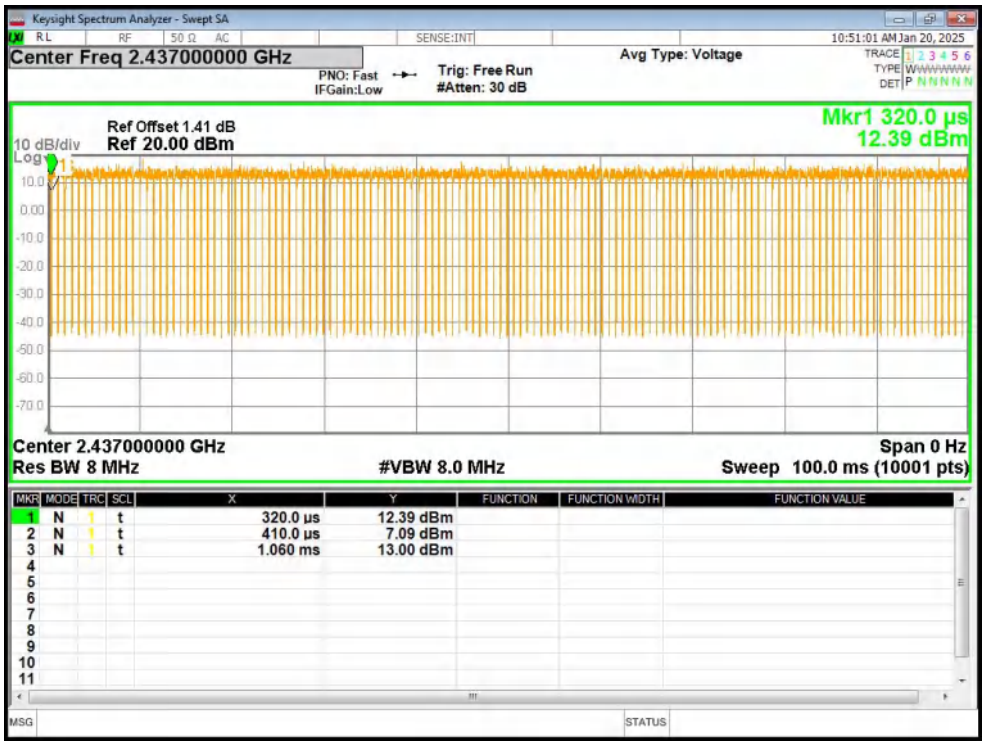
Duty Cycle NVNT n20 2462MHz Ant1



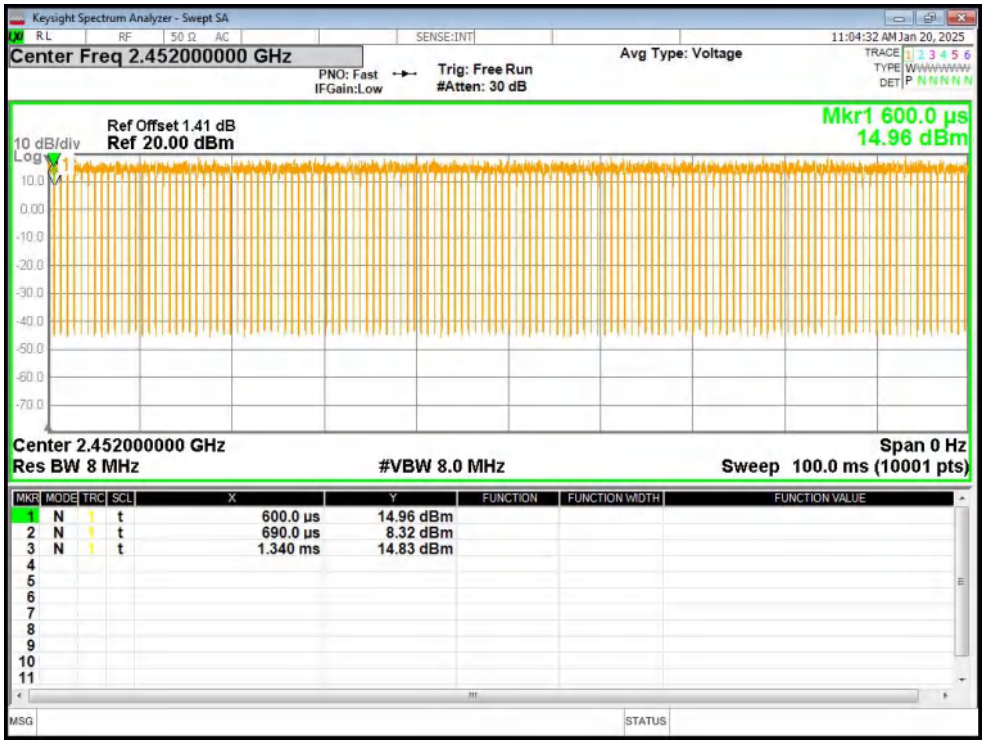
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



2.Maximum Peak Conducted Output Power

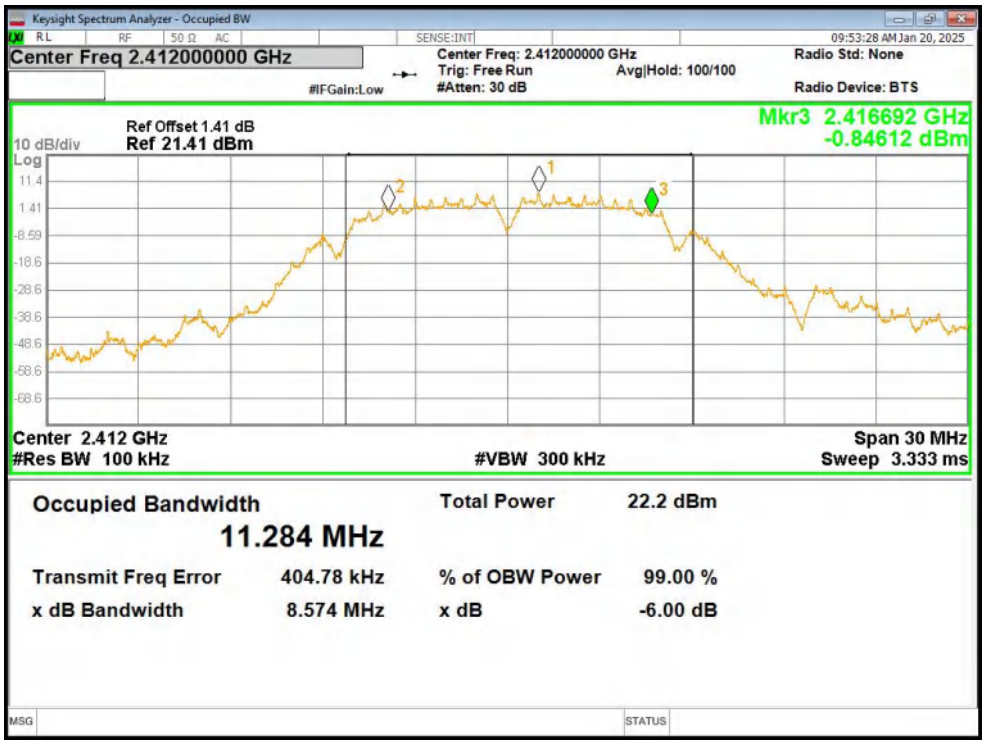
Mode	Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Verdict
b	2412	17.07	30	Pass
b	2437	14.43	30	Pass
b	2462	16.87	30	Pass
g	2412	19.16	30	Pass
g	2437	16.9	30	Pass
g	2462	19.3	30	Pass
n20	2412	19.16	30	Pass
n20	2437	16.89	30	Pass
n20	2462	19.21	30	Pass
n40	2422	17.28	30	Pass
n40	2437	16.9	30	Pass
n40	2452	19.14	30	Pass

3.-6dB Bandwidth

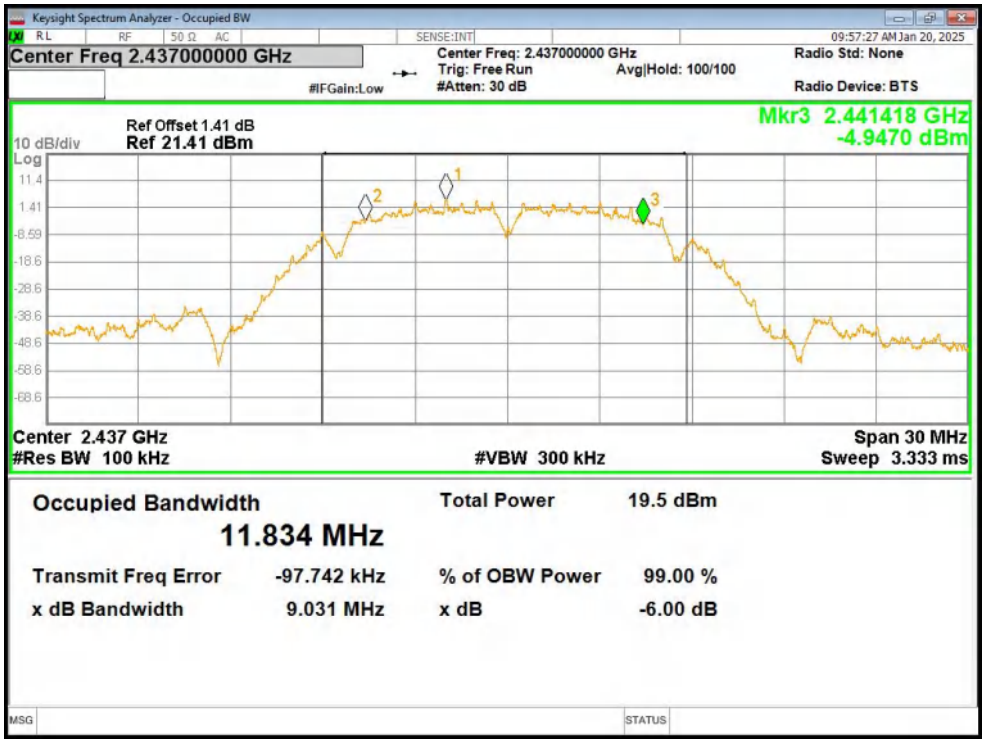
Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	8.574	0.5	Pass
b	2437	9.031	0.5	Pass
b	2462	9.039	0.5	Pass
g	2412	14.798	0.5	Pass
g	2437	16.333	0.5	Pass
g	2462	15.618	0.5	Pass
n20	2412	16.322	0.5	Pass
n20	2437	16.894	0.5	Pass
n20	2462	16.434	0.5	Pass
n40	2422	32.563	0.5	Pass
n40	2437	35.321	0.5	Pass
n40	2452	35.104	0.5	Pass

Test Graphs

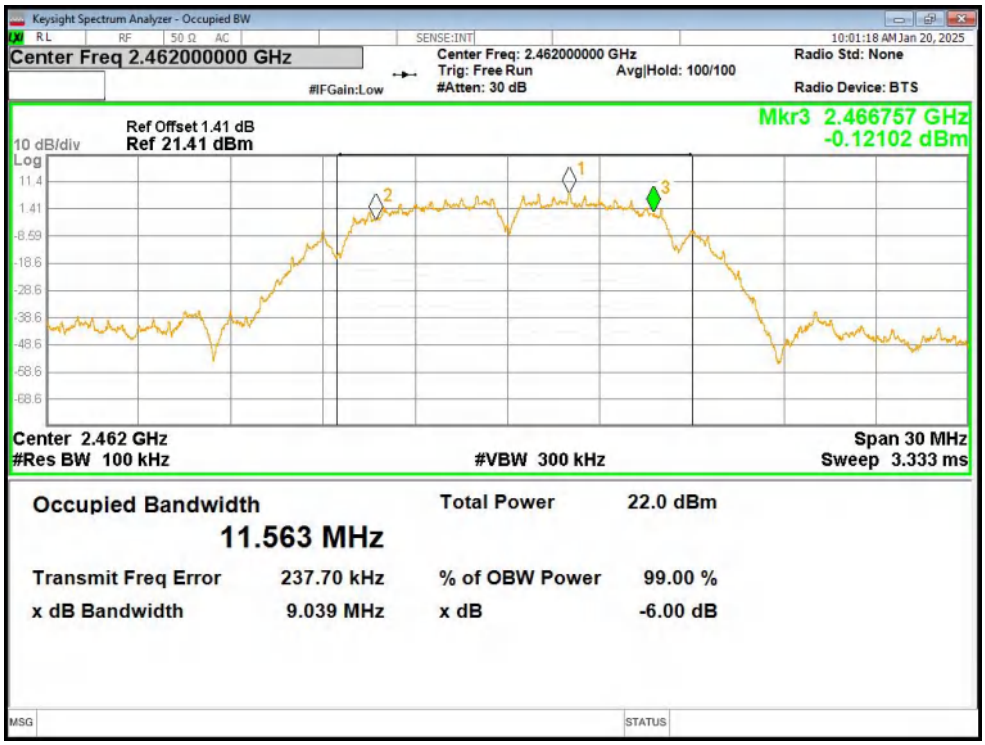
-6dB Bandwidth NVNT b 2412MHz Ant1



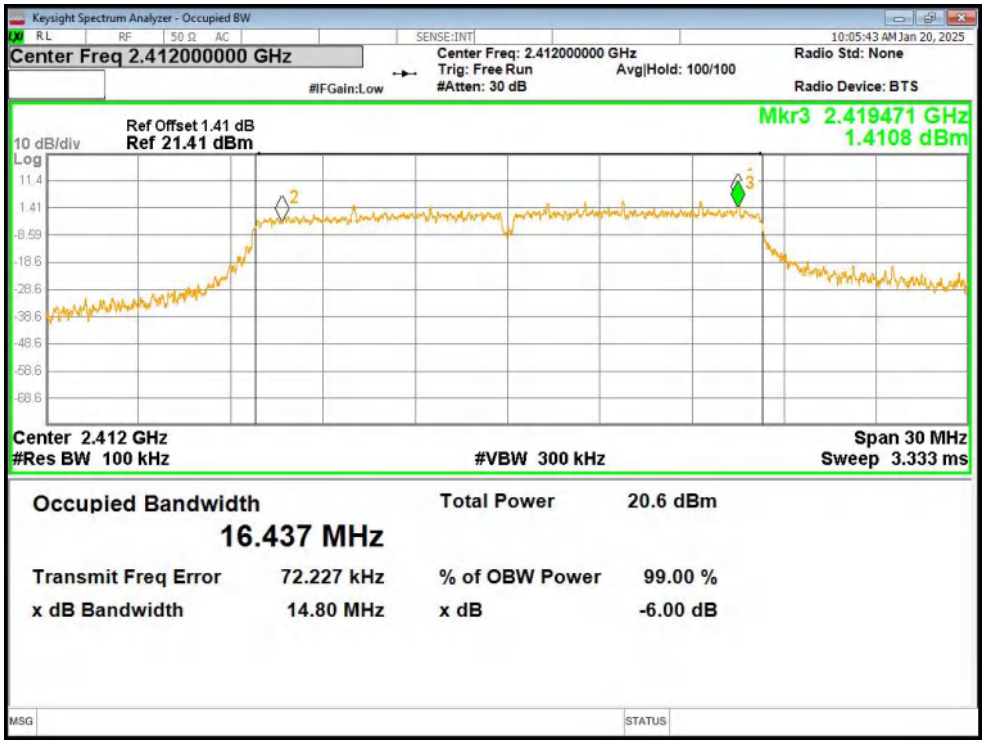
-6dB Bandwidth NVNT b 2437MHz Ant1



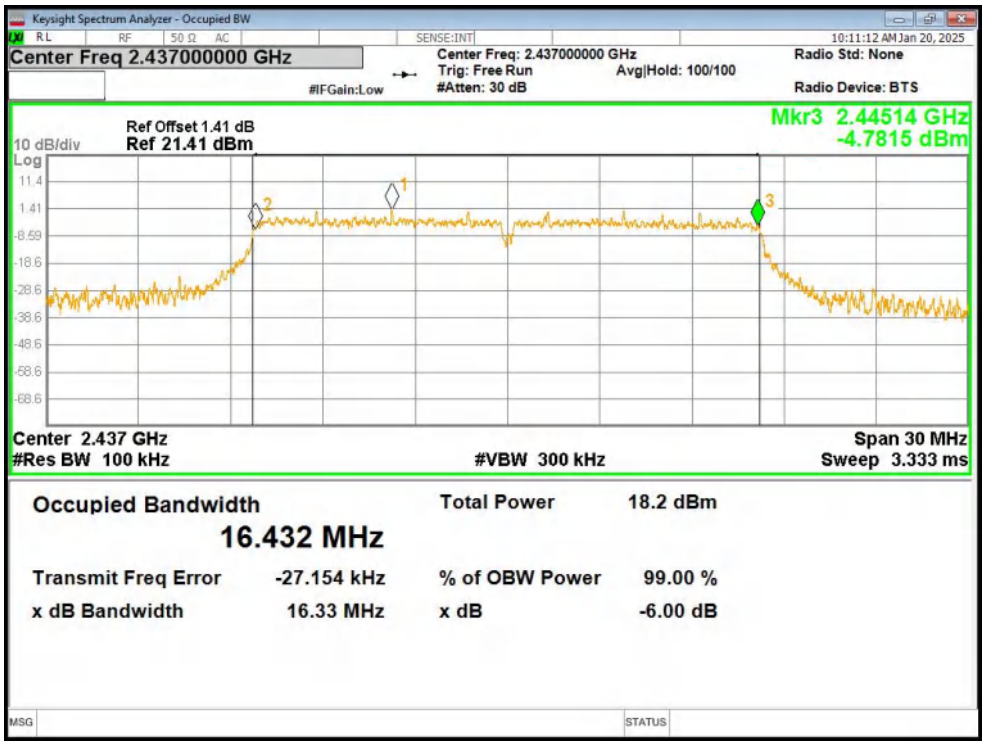
-6dB Bandwidth NVNT b 2462MHz Ant1



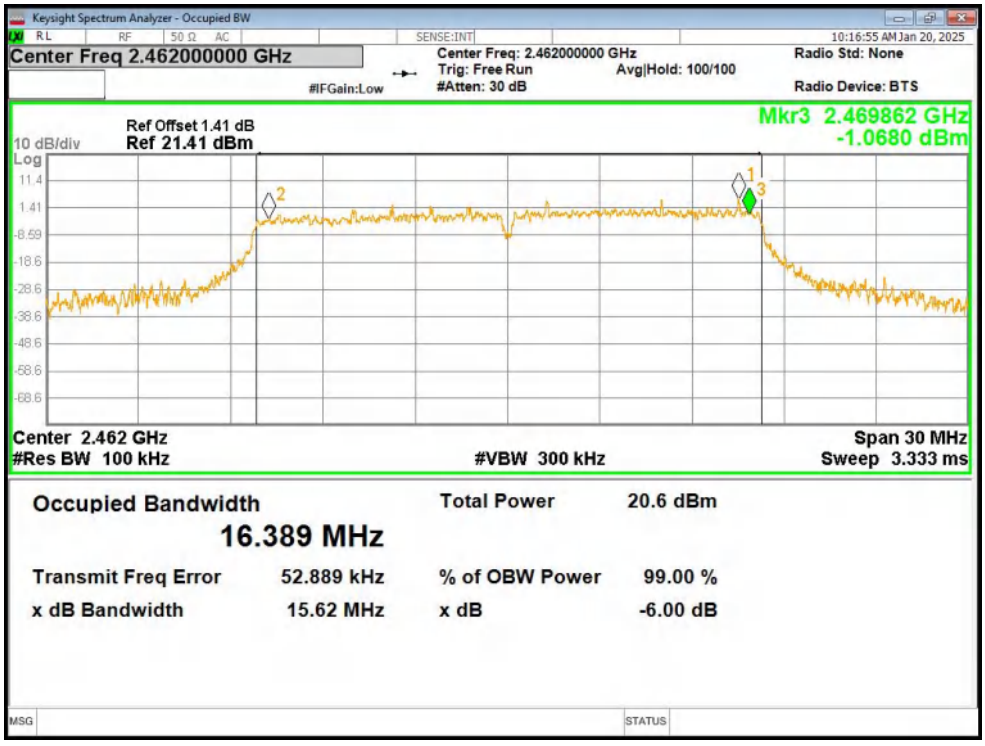
-6dB Bandwidth NVNT g 2412MHz Ant1



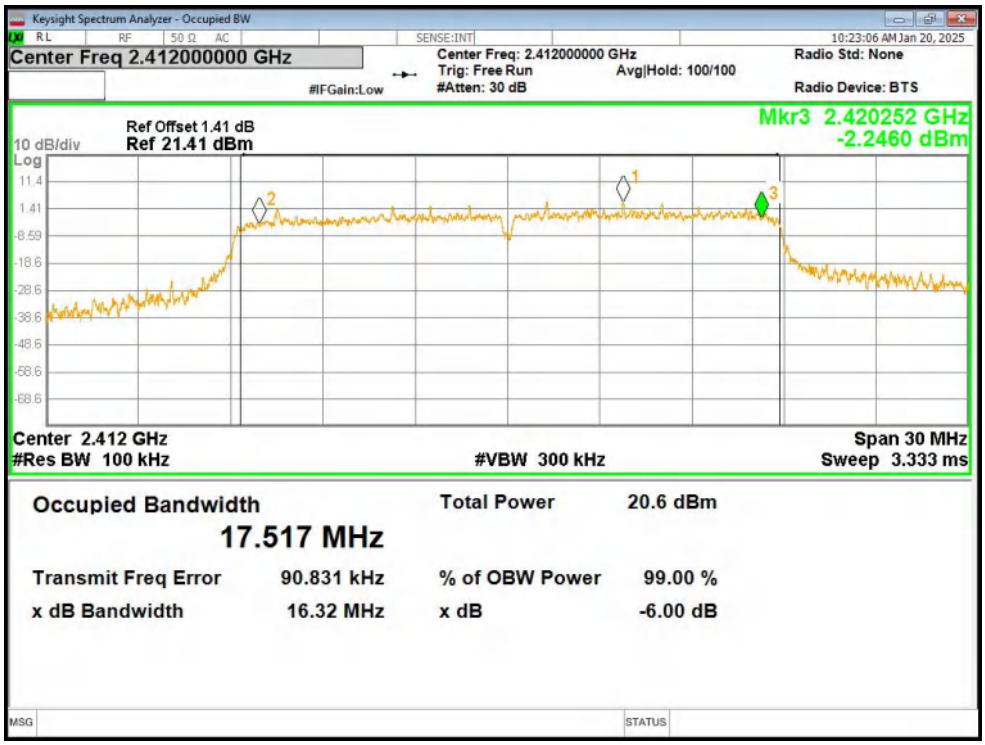
-6dB Bandwidth NVNT g 2437MHz Ant1



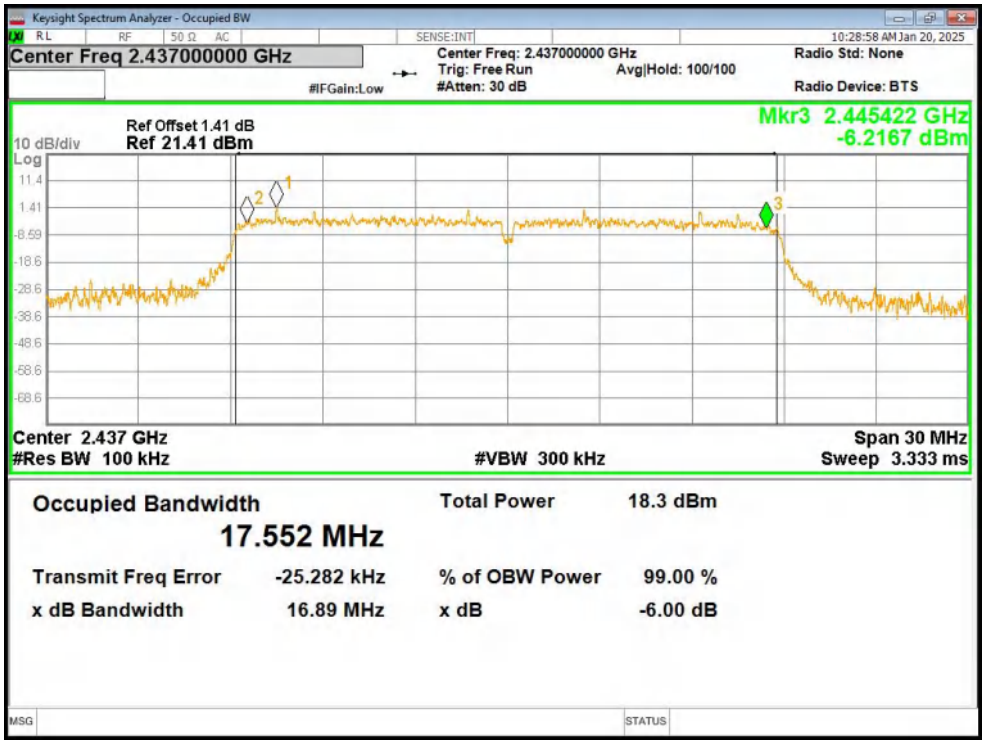
-6dB Bandwidth NVNT g 2462MHz Ant1



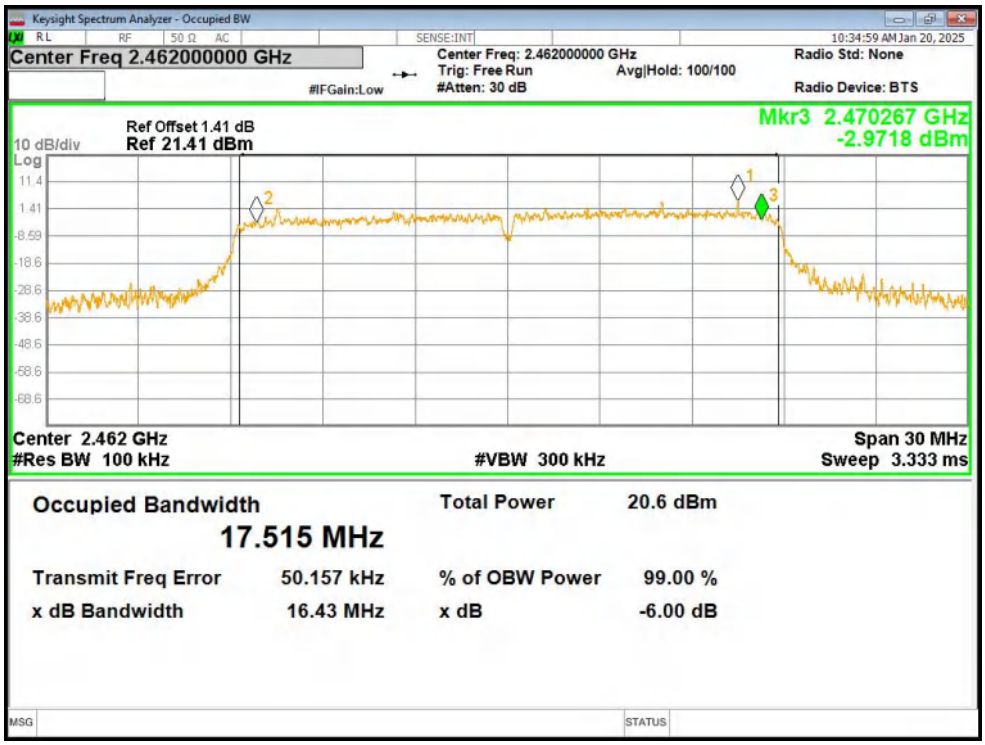
-6dB Bandwidth NVNT n20 2412MHz Ant1



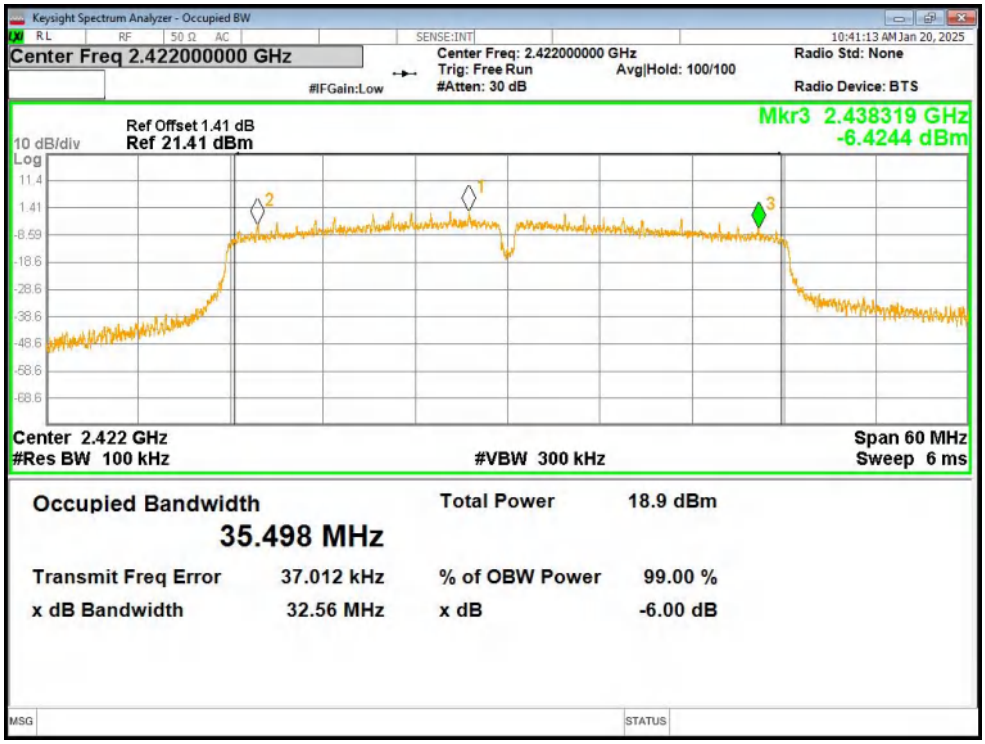
-6dB Bandwidth NVNT n20 2437MHz Ant1



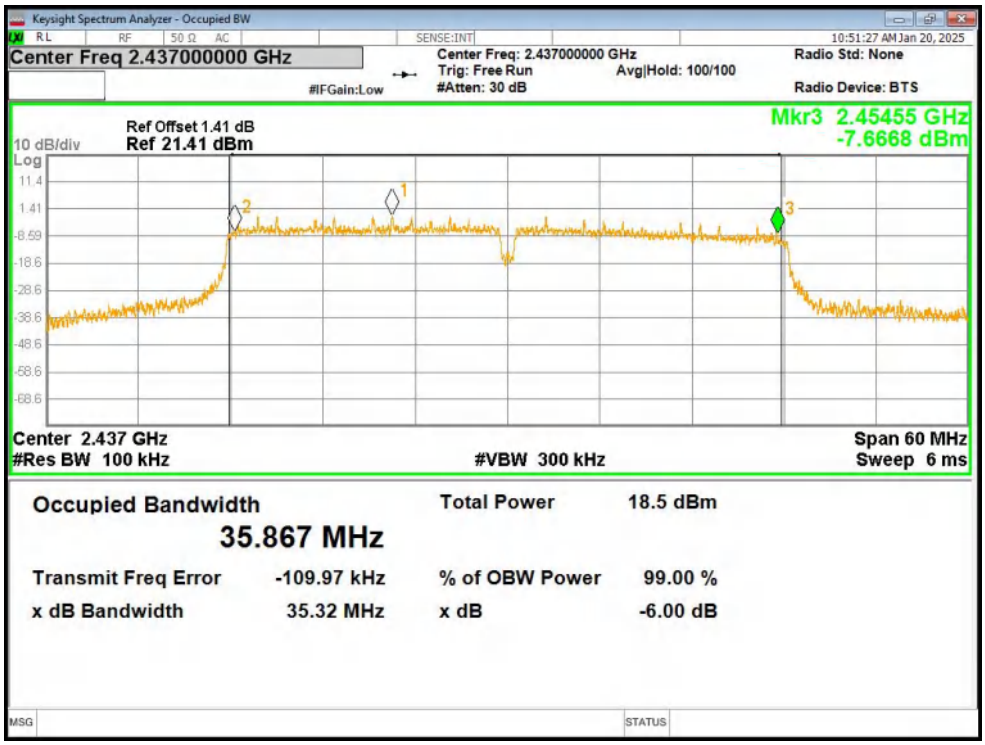
-6dB Bandwidth NVNT n20 2462MHz Ant1



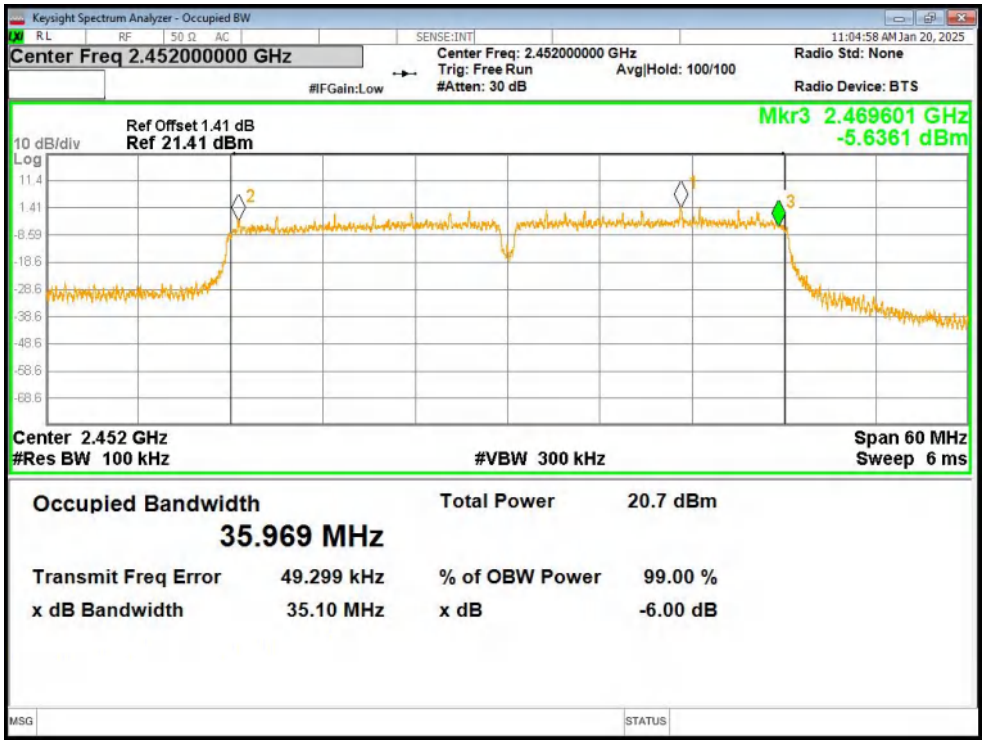
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



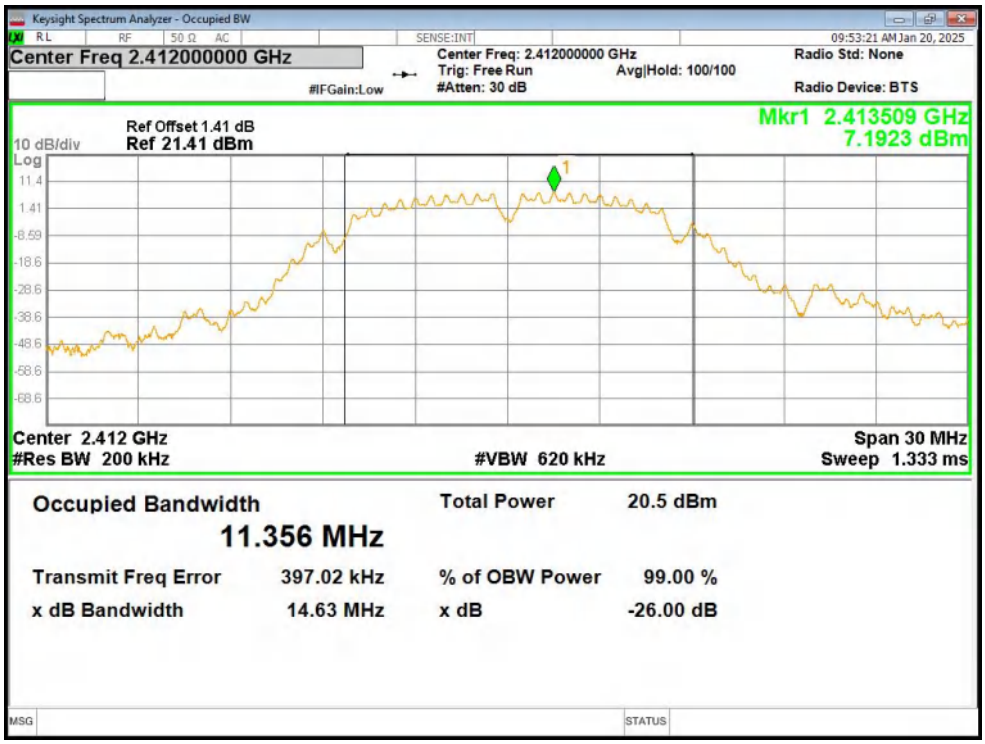
-6dB Bandwidth NVNT n40 2452MHz Ant1



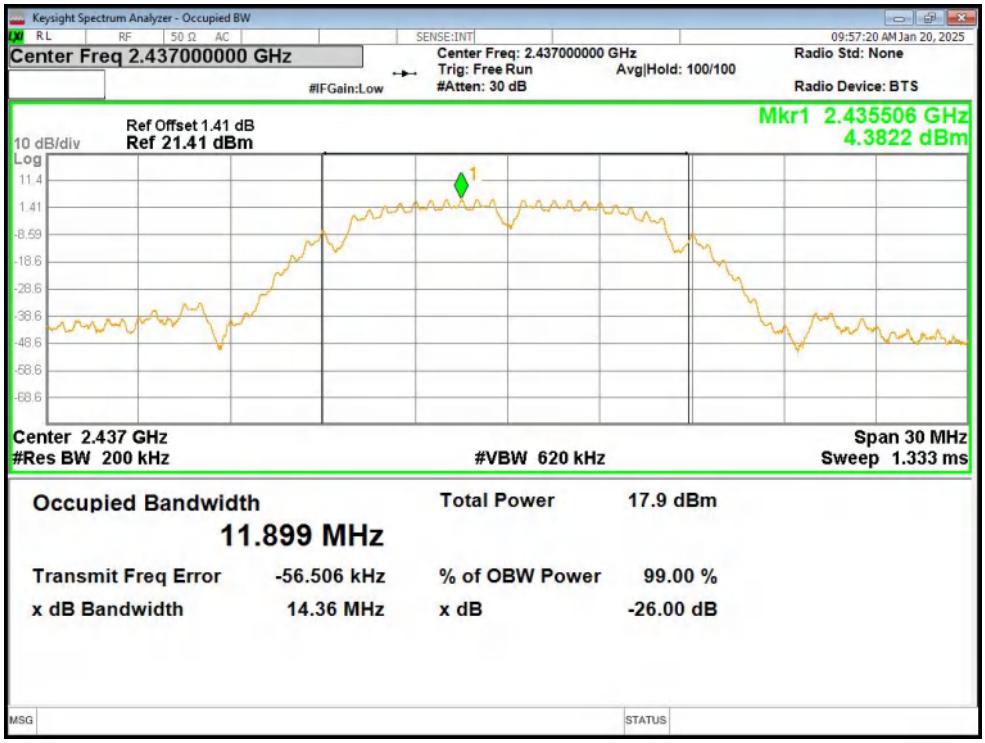
4.Occupied Channel Bandwidth

Mode	Frequency (MHz)	99% OBW (MHz)
b	2412	11.356
b	2437	11.899
b	2462	11.488
g	2412	16.574
g	2437	16.534
g	2462	16.482
n20	2412	17.559
n20	2437	17.574
n20	2462	17.523
n40	2422	35.514
n40	2437	35.999
n40	2452	36.121

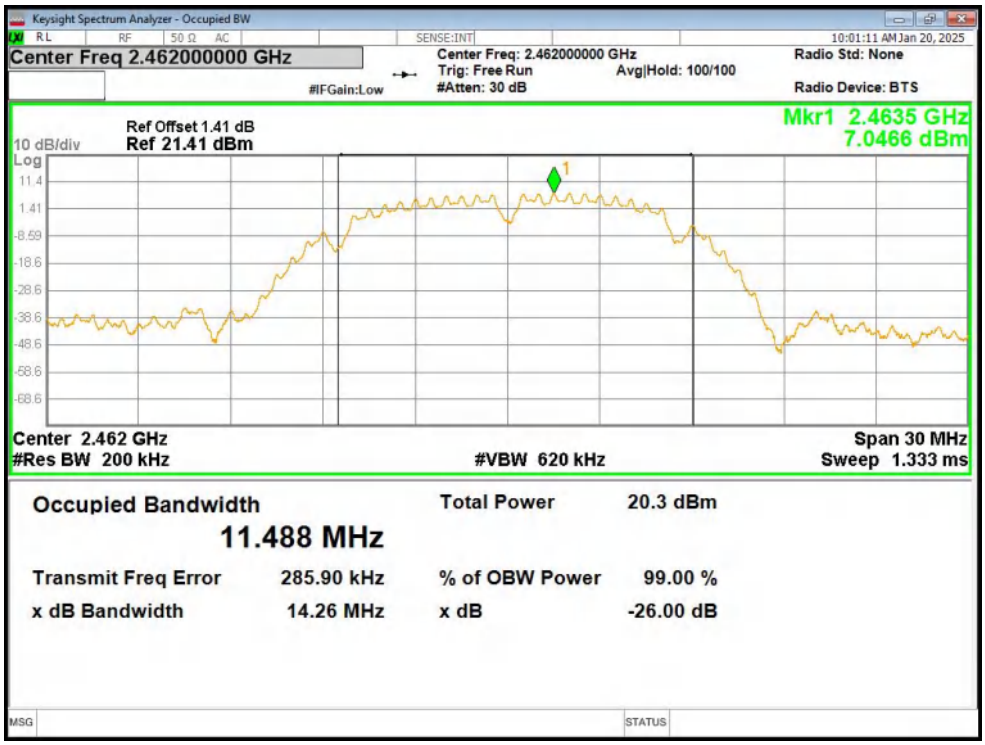
Test Graphs
OBW NVNT b 2412MHz Ant1



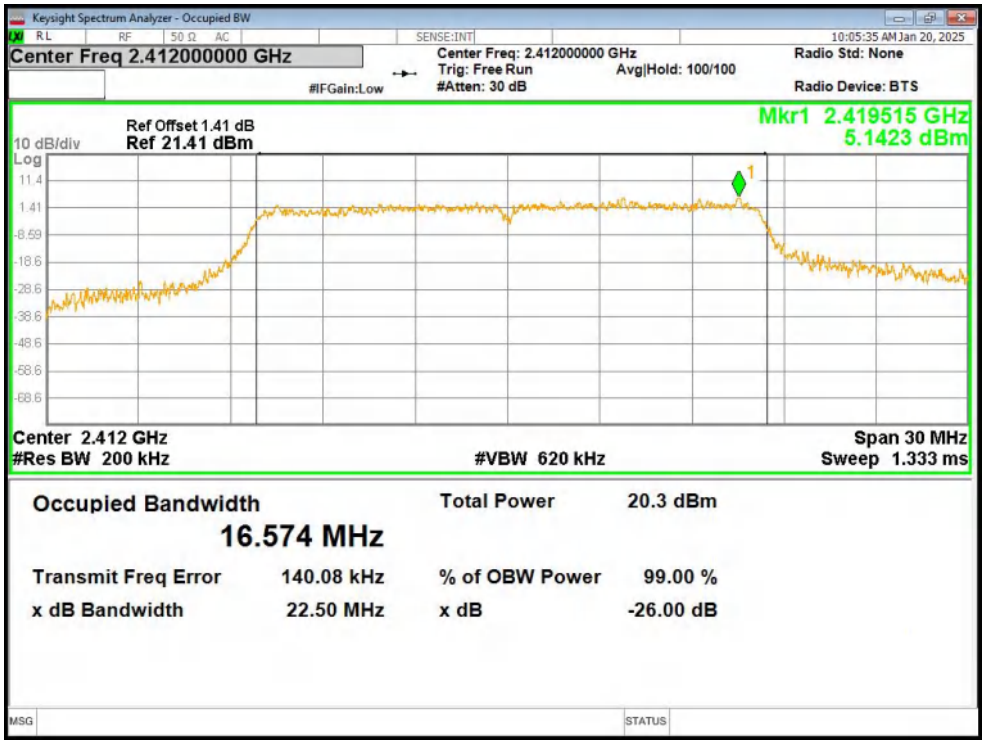
OBW NVNT b 2437MHz Ant1



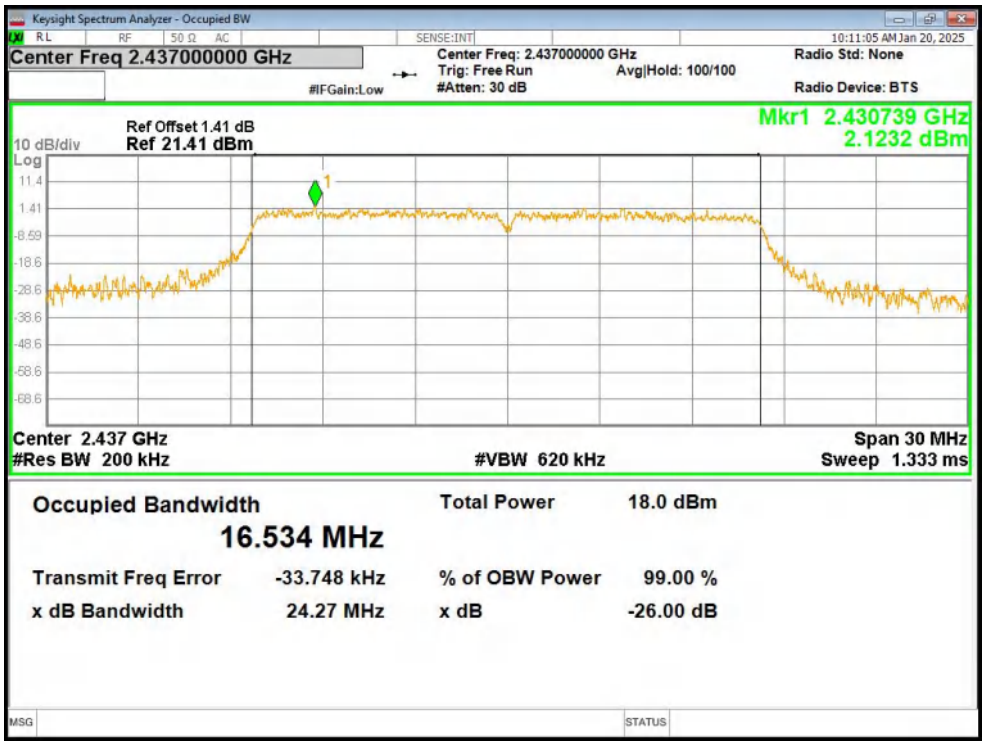
OBW NVNT b 2462MHz Ant1



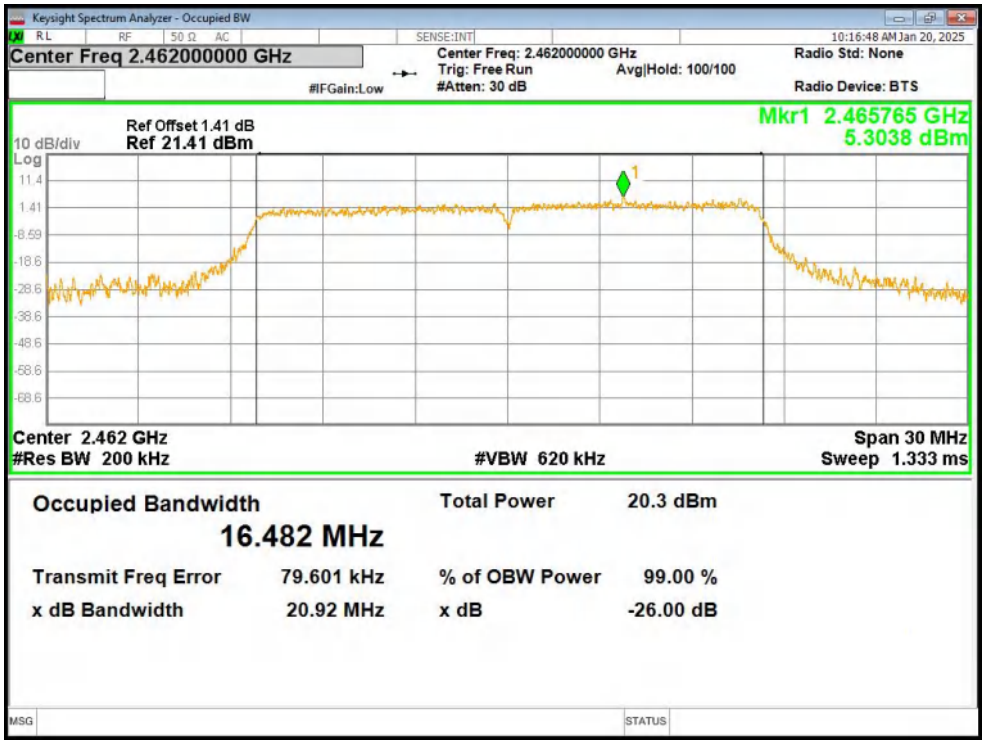
OBW NVNT g 2412MHz Ant1



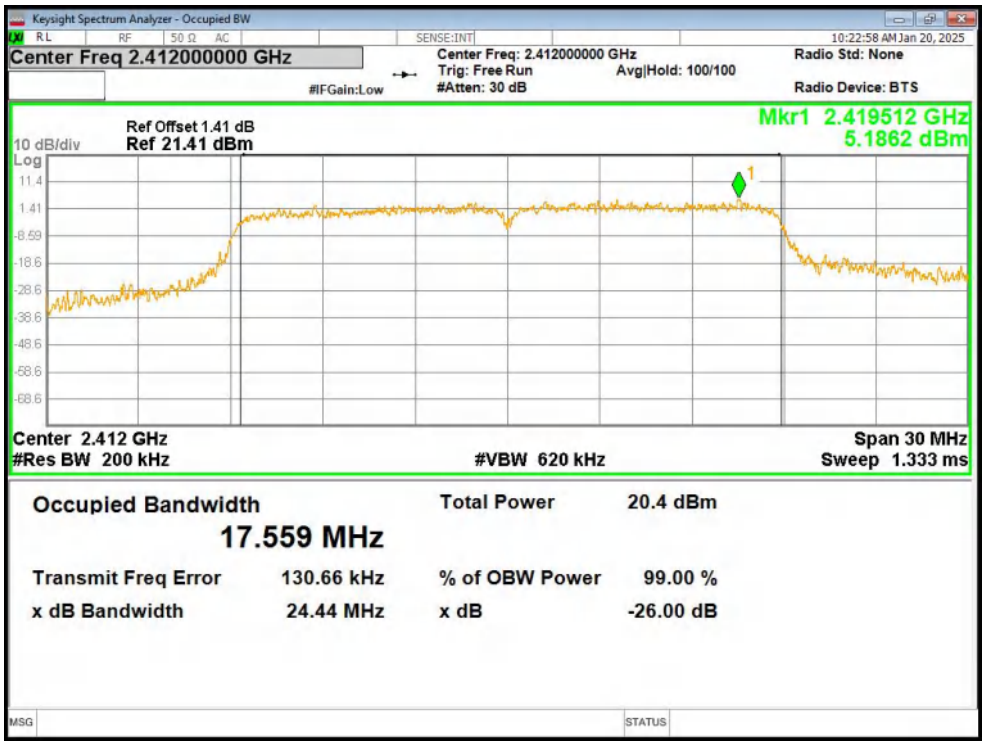
OBW NVNT g 2437MHz Ant1



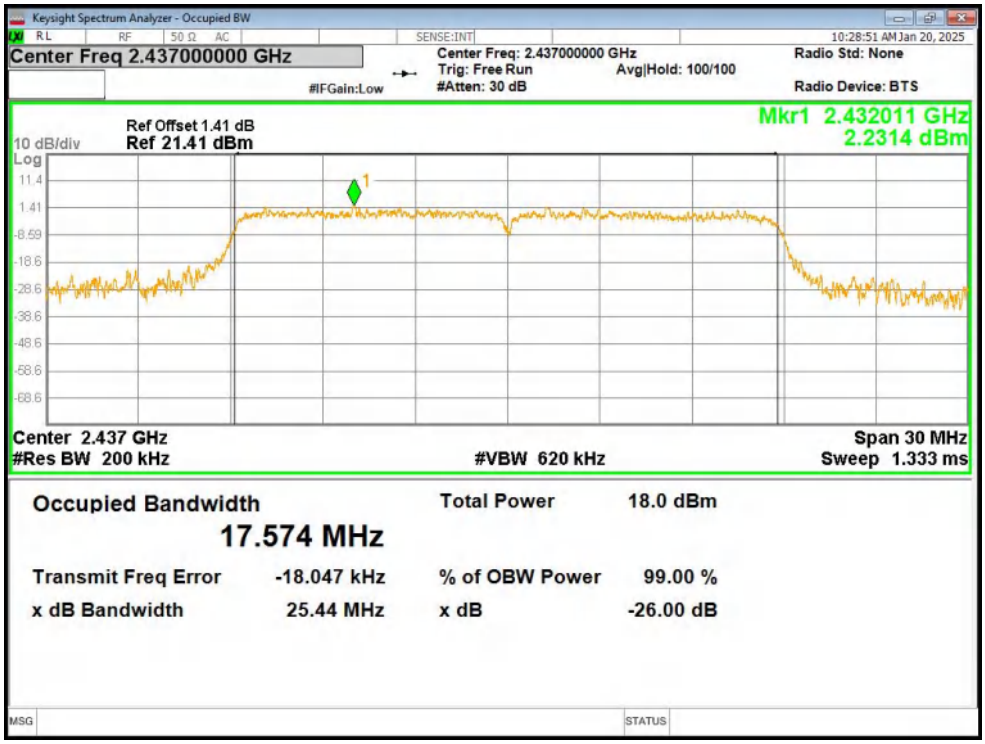
OBW NVNT g 2462MHz Ant1



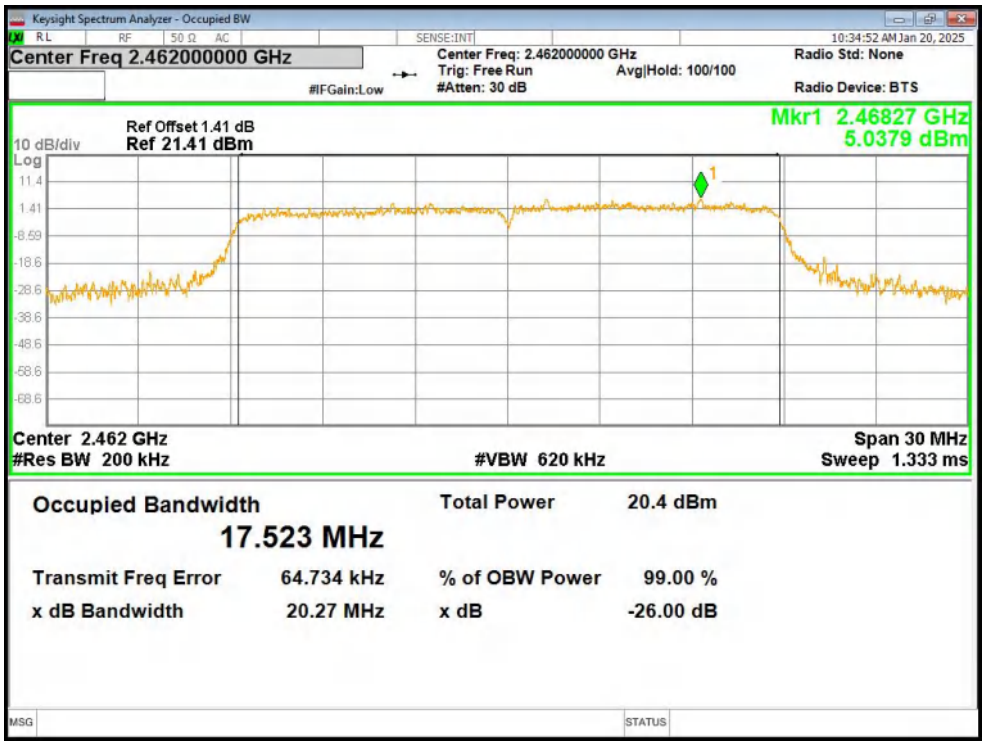
OBW NVNT n20 2412MHz Ant1



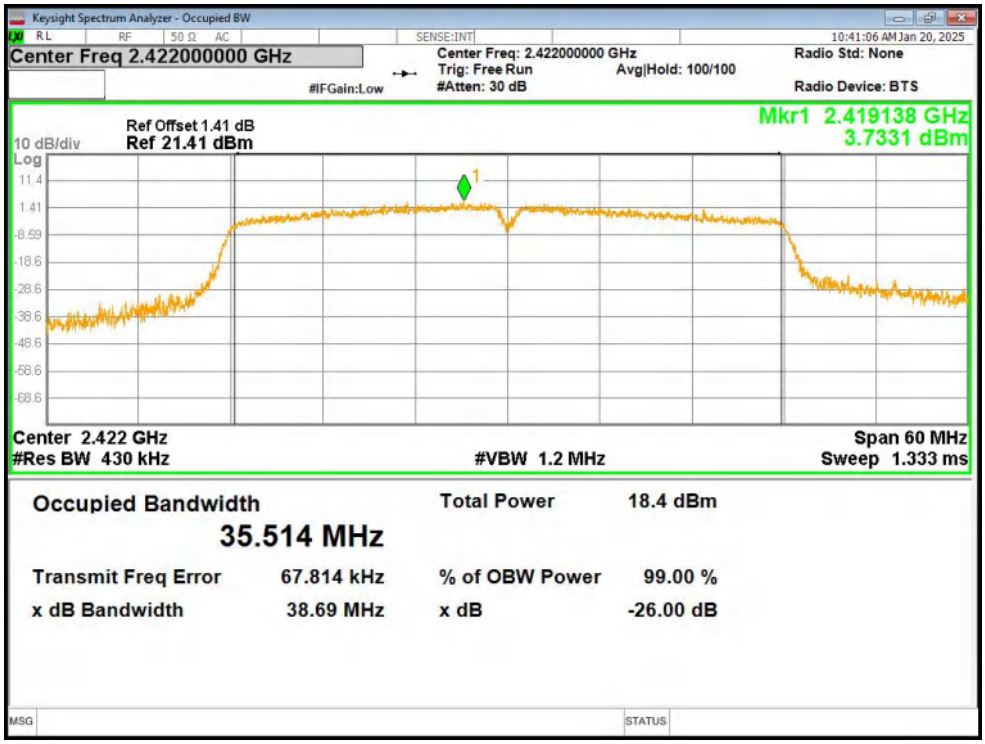
OBW NVNT n20 2437MHz Ant1



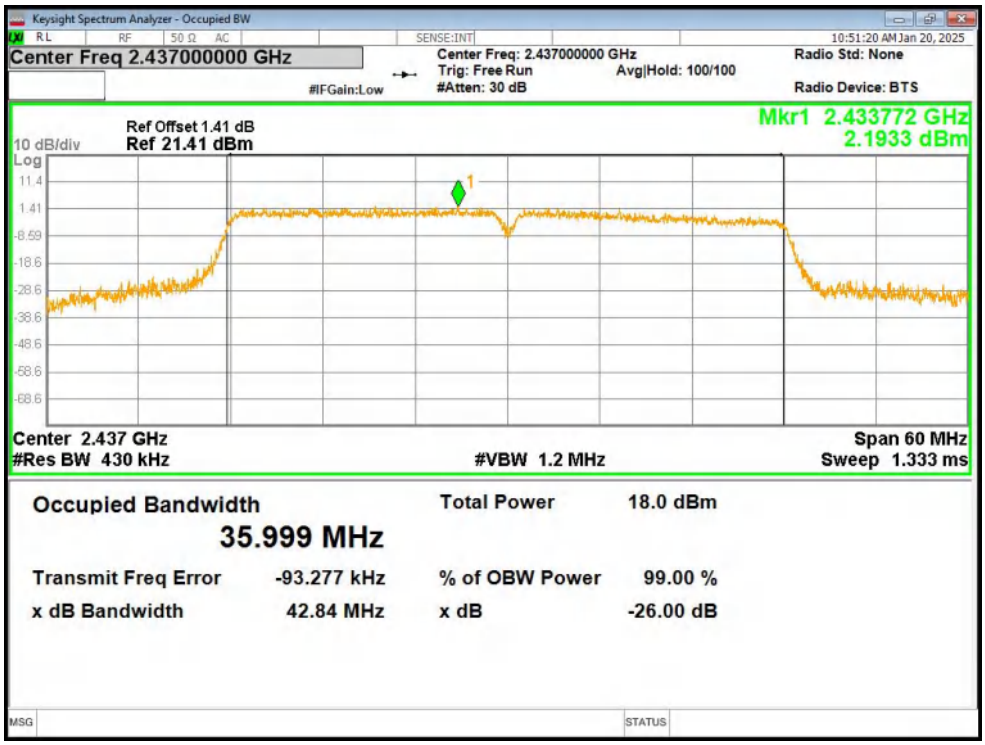
OBW NVNT n20 2462MHz Ant1



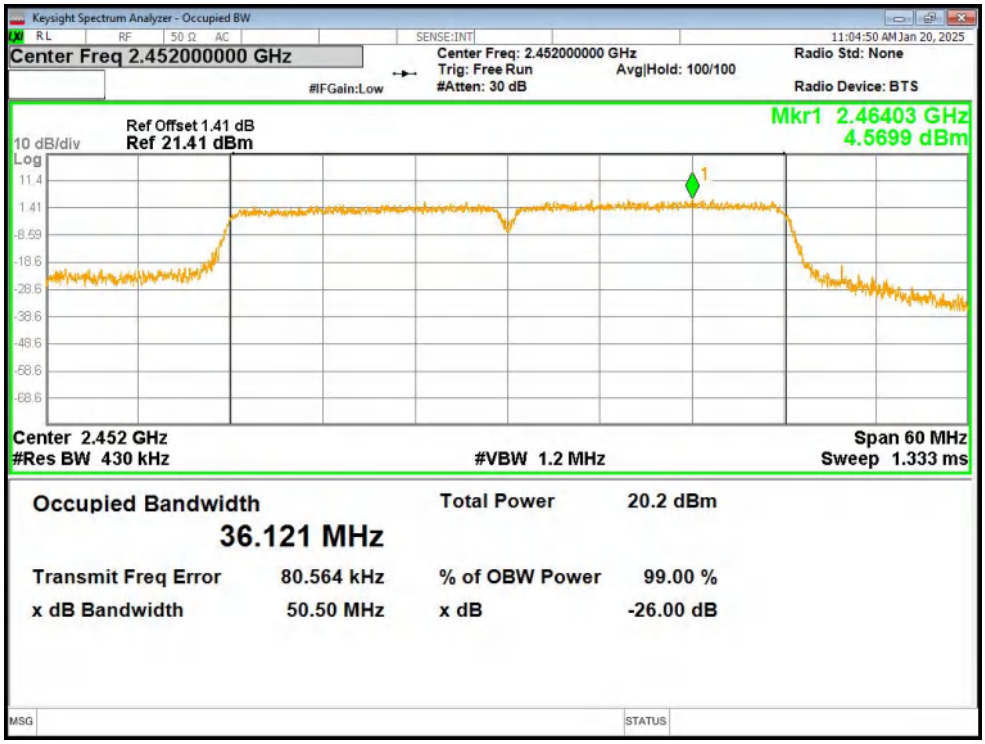
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



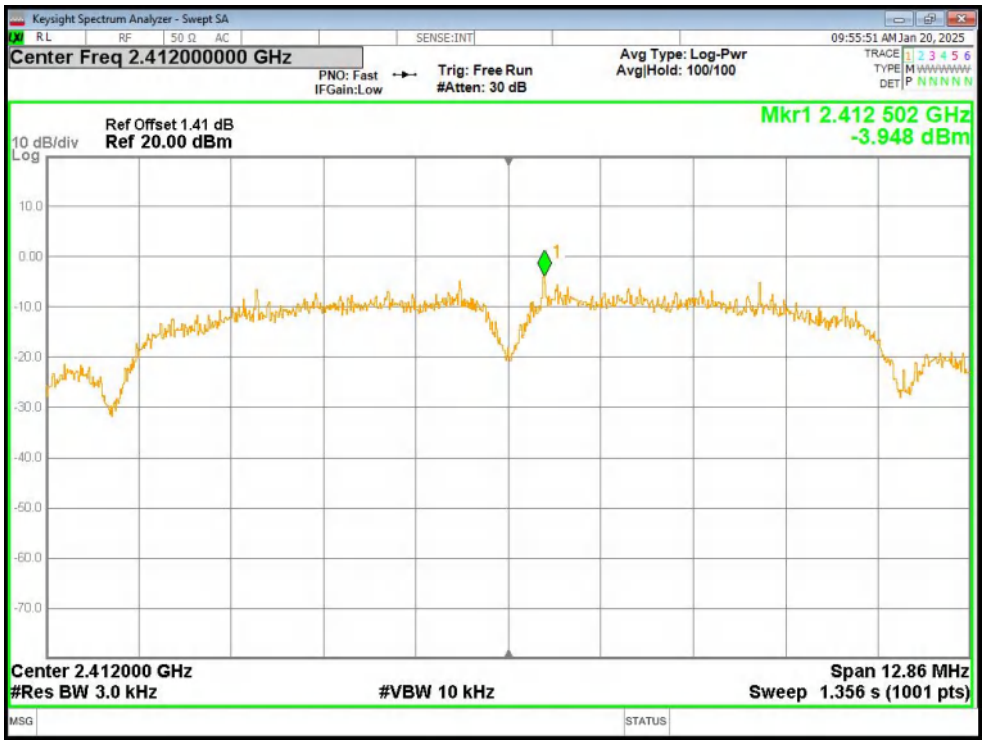
OBW NVNT n40 2452MHz Ant1



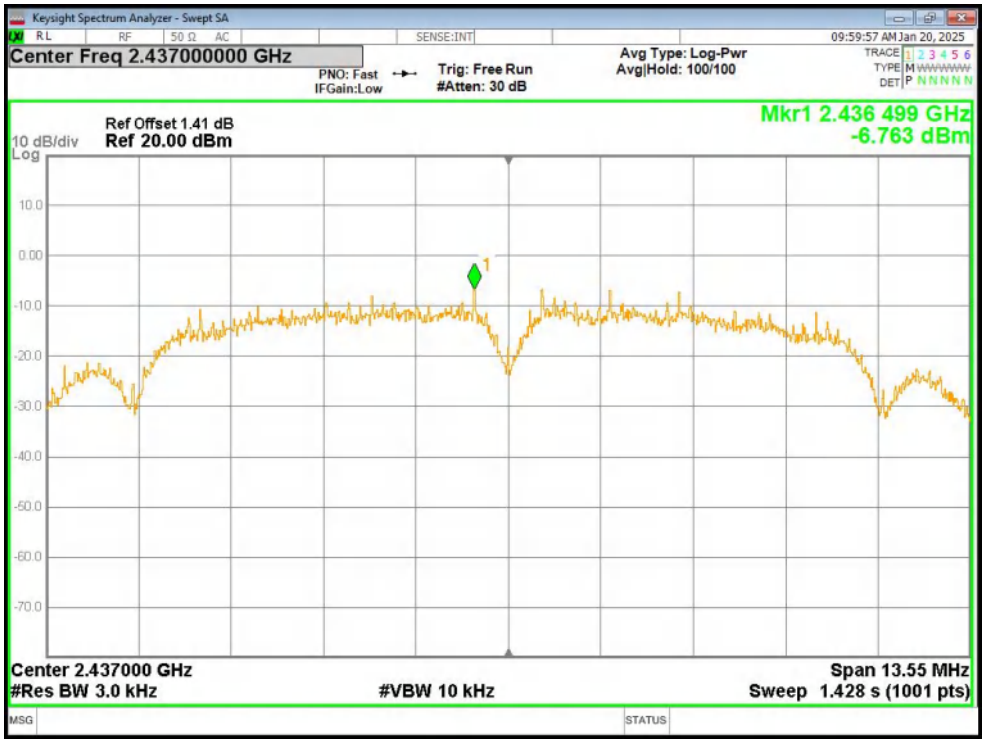
5.Maximum Power Spectral Density Level

Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
b	2412	-3.95	8	Pass
b	2437	-6.76	8	Pass
b	2462	-3.91	8	Pass
g	2412	-9.98	8	Pass
g	2437	-12.55	8	Pass
g	2462	-9.39	8	Pass
n20	2412	-8.66	8	Pass
n20	2437	-11.87	8	Pass
n20	2462	-8.85	8	Pass
n40	2422	-13.11	8	Pass
n40	2437	-15.06	8	Pass
n40	2452	-12.53	8	Pass

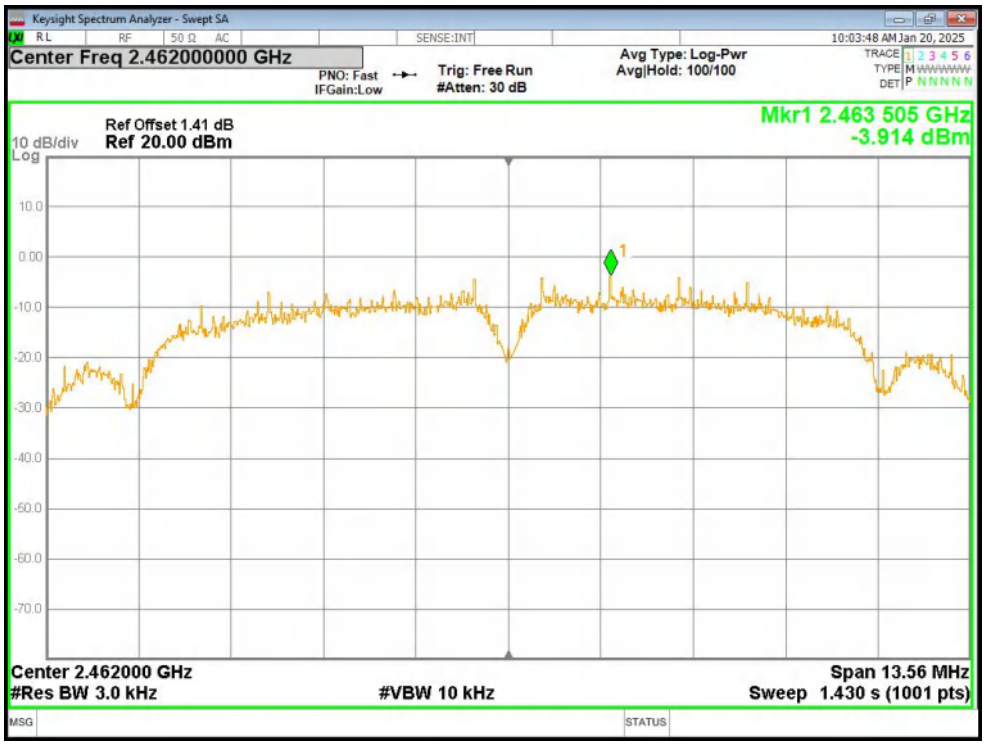
Test Graphs
PSD NVNT b 2412MHz Ant1



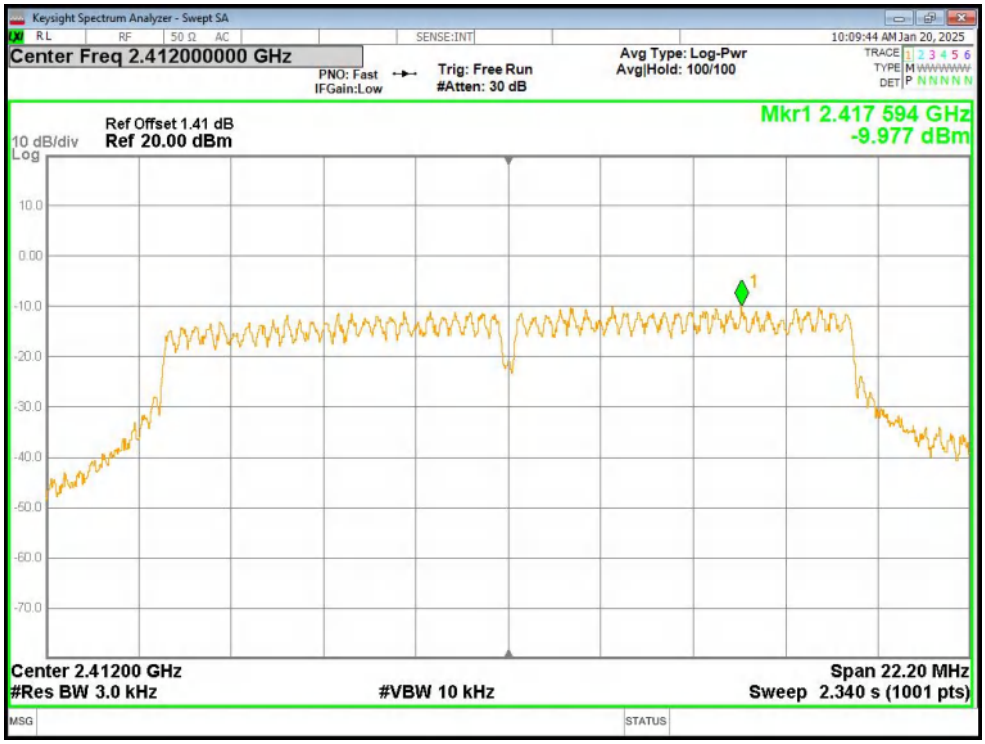
PSD NVNT b 2437MHz Ant1



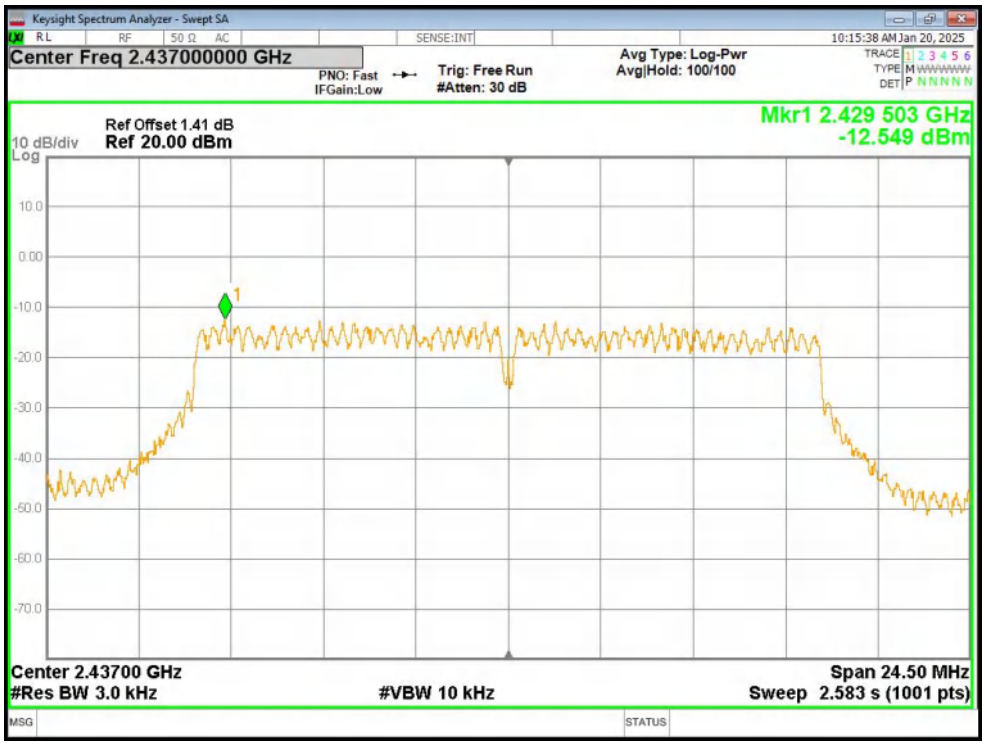
PSD NVNT b 2462MHz Ant1



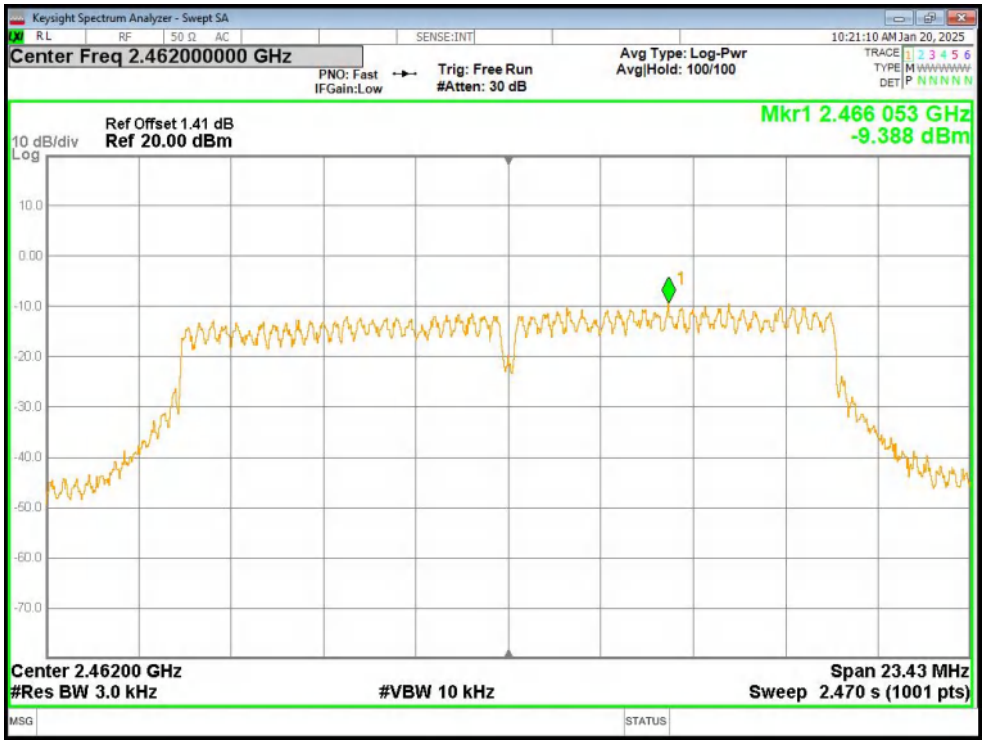
PSD NVNT g 2412MHz Ant1



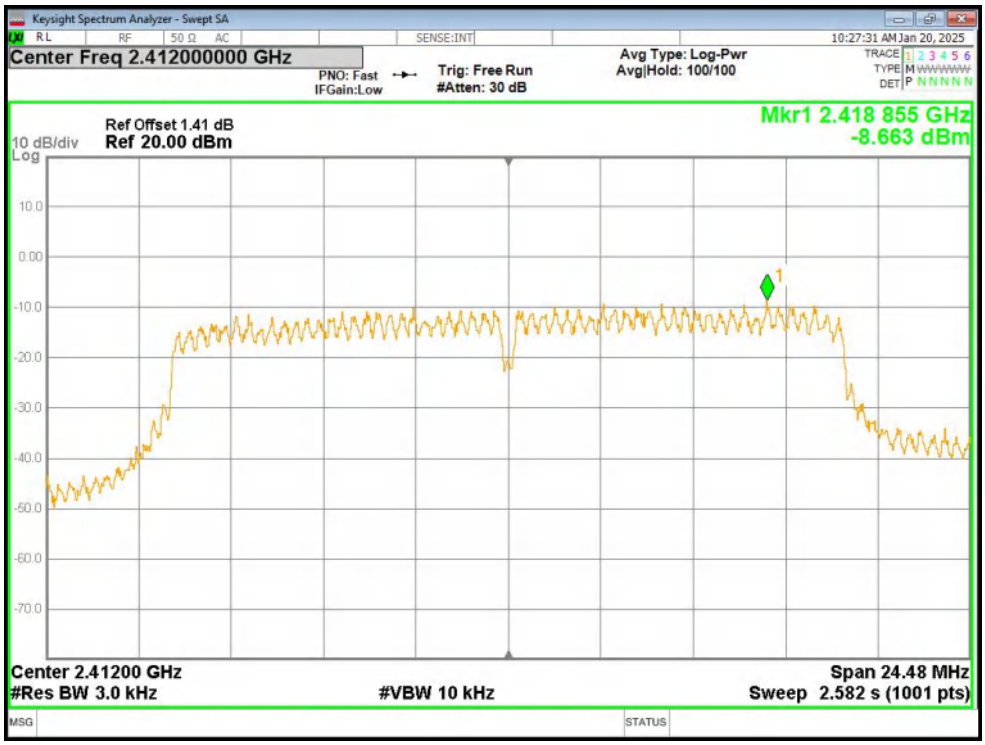
PSD NVNT g 2437MHz Ant1



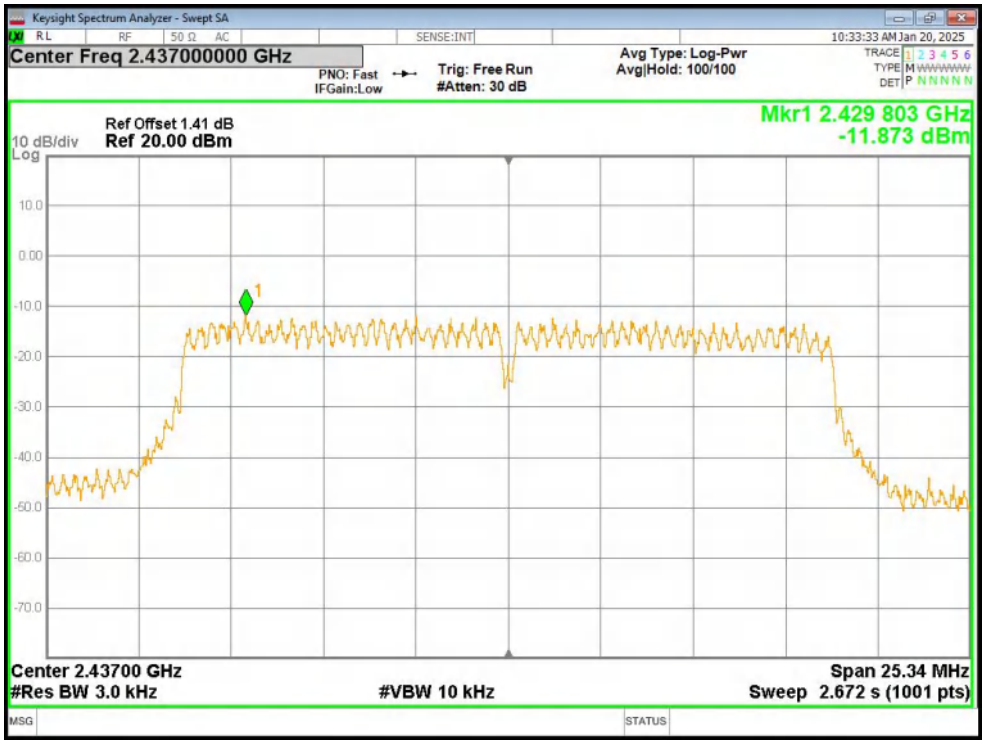
PSD NVNT g 2462MHz Ant1



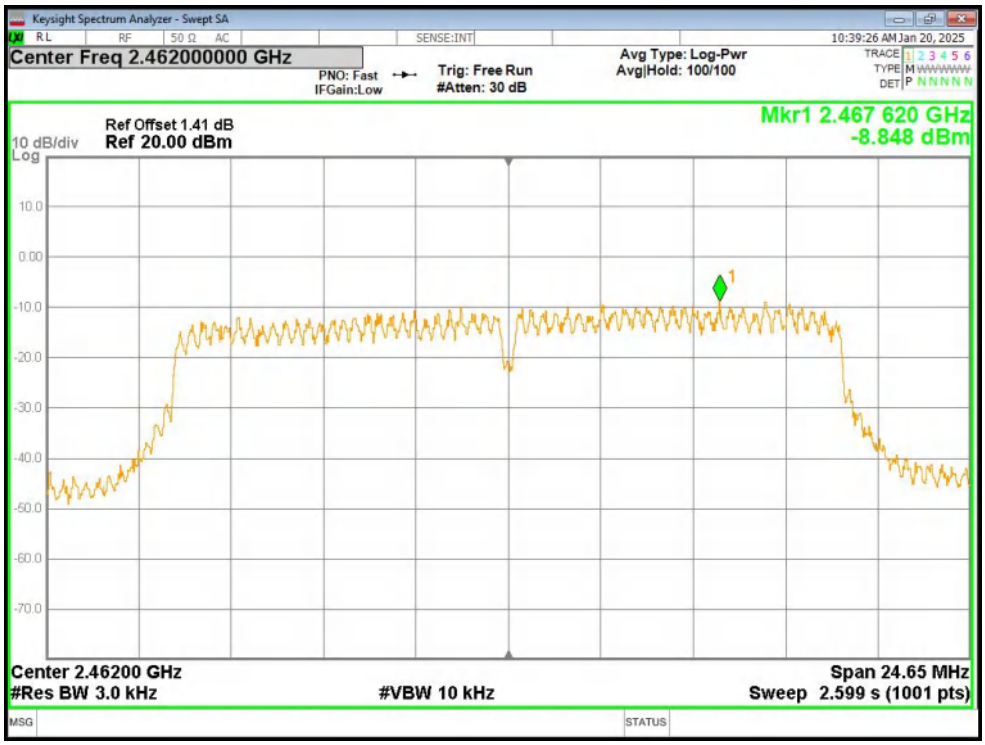
PSD NVNT n20 2412MHz Ant1



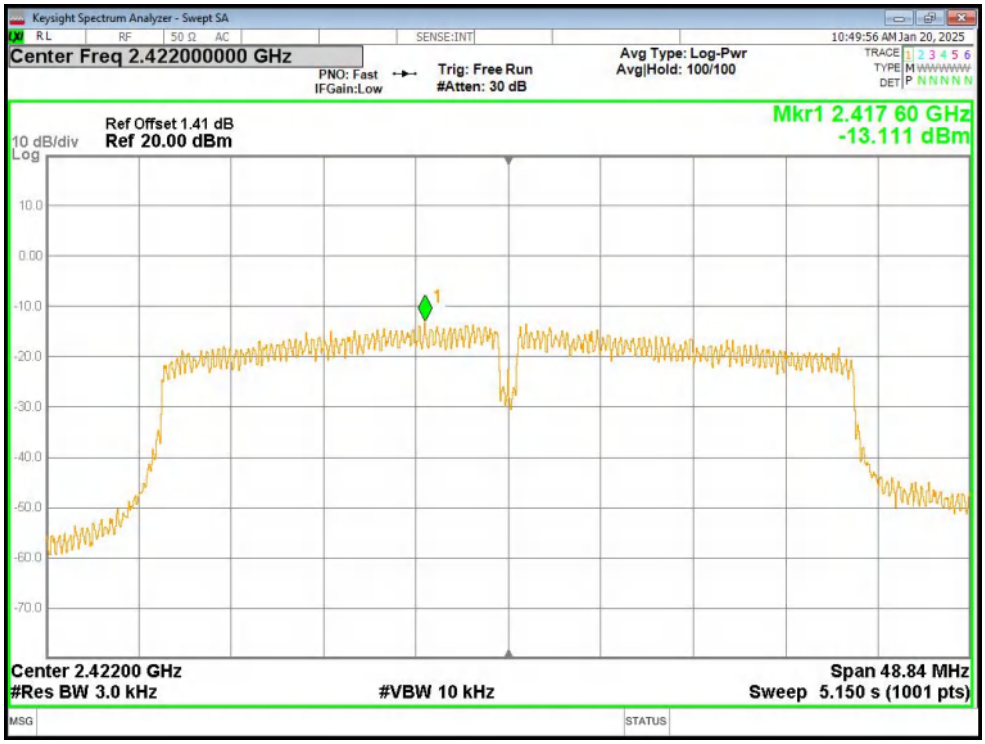
PSD NVNT n20 2437MHz Ant1



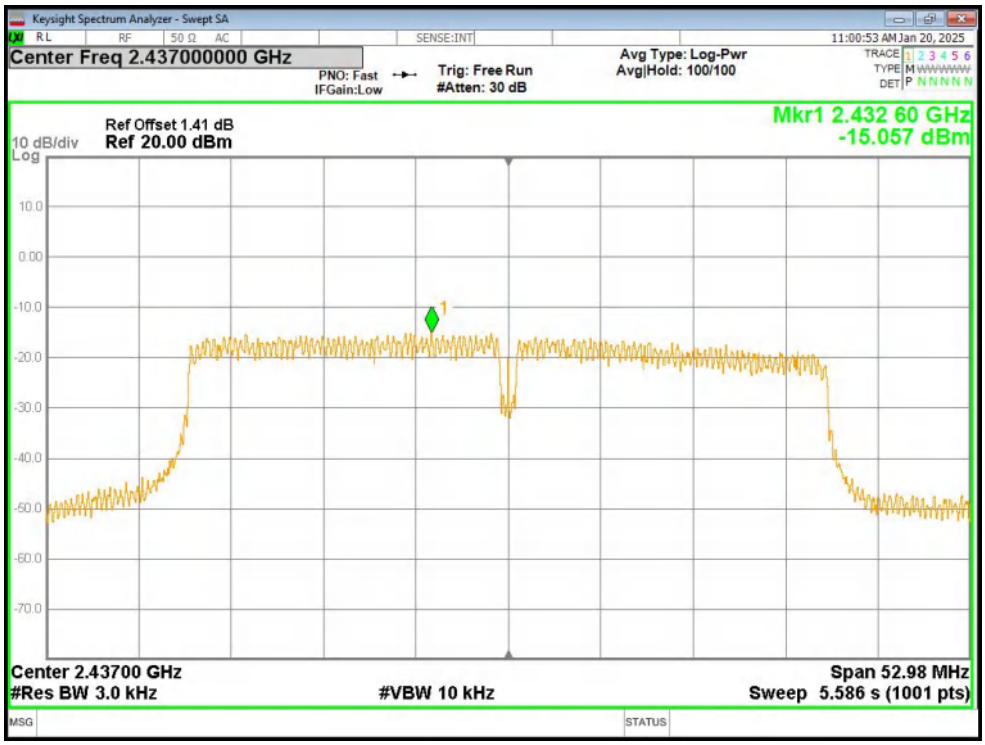
PSD NVNT n20 2462MHz Ant1



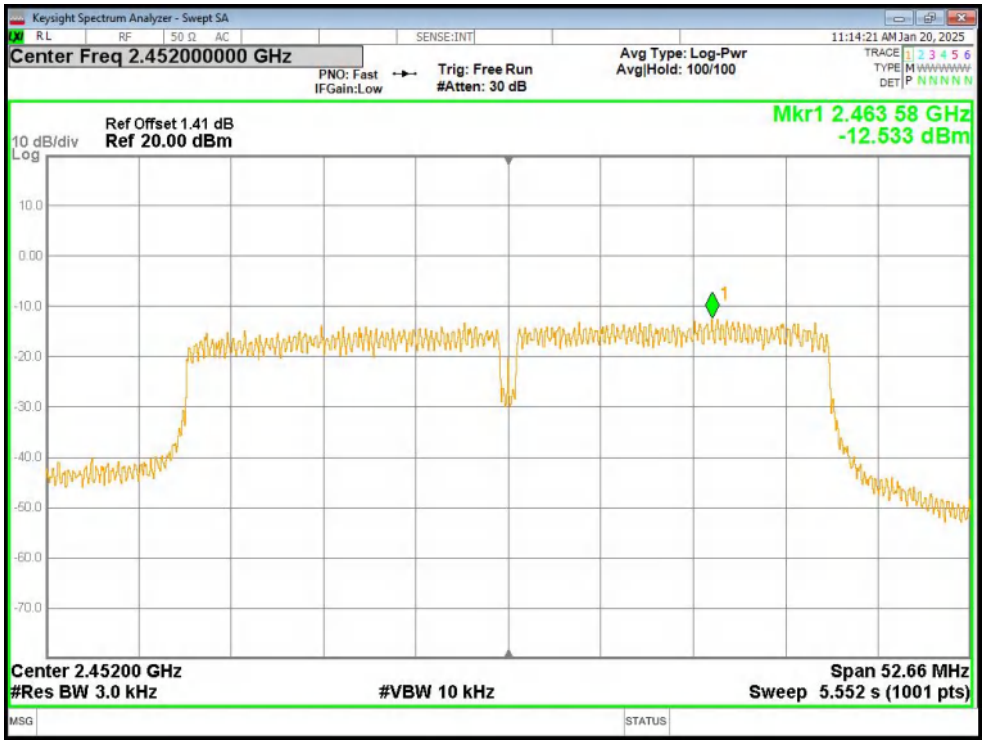
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

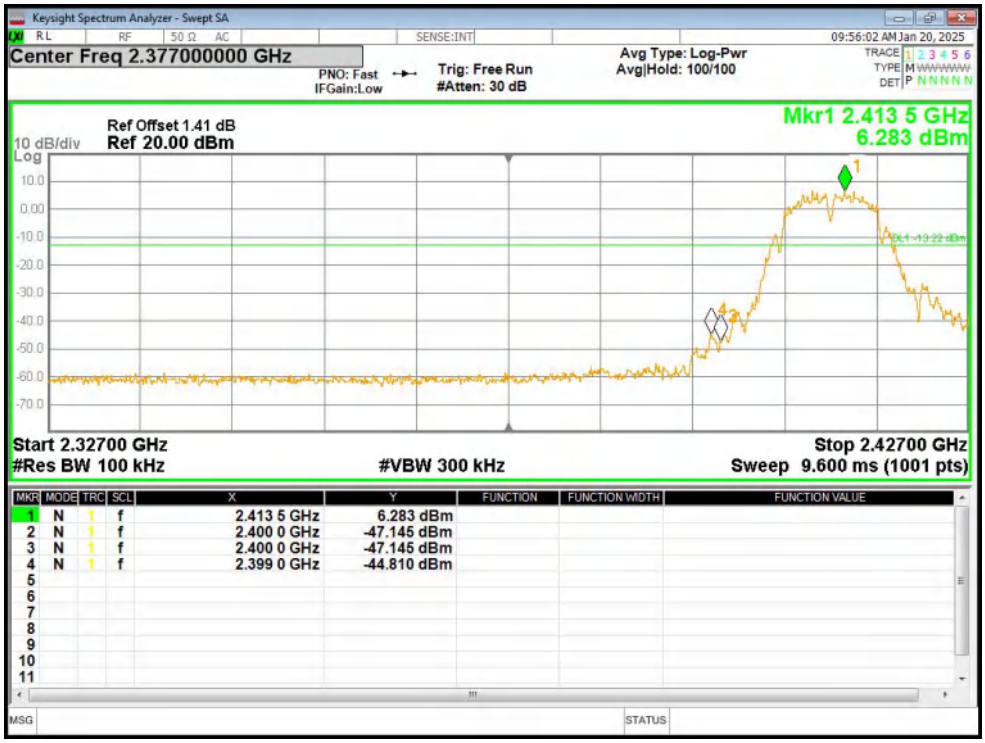


6.Band Edge

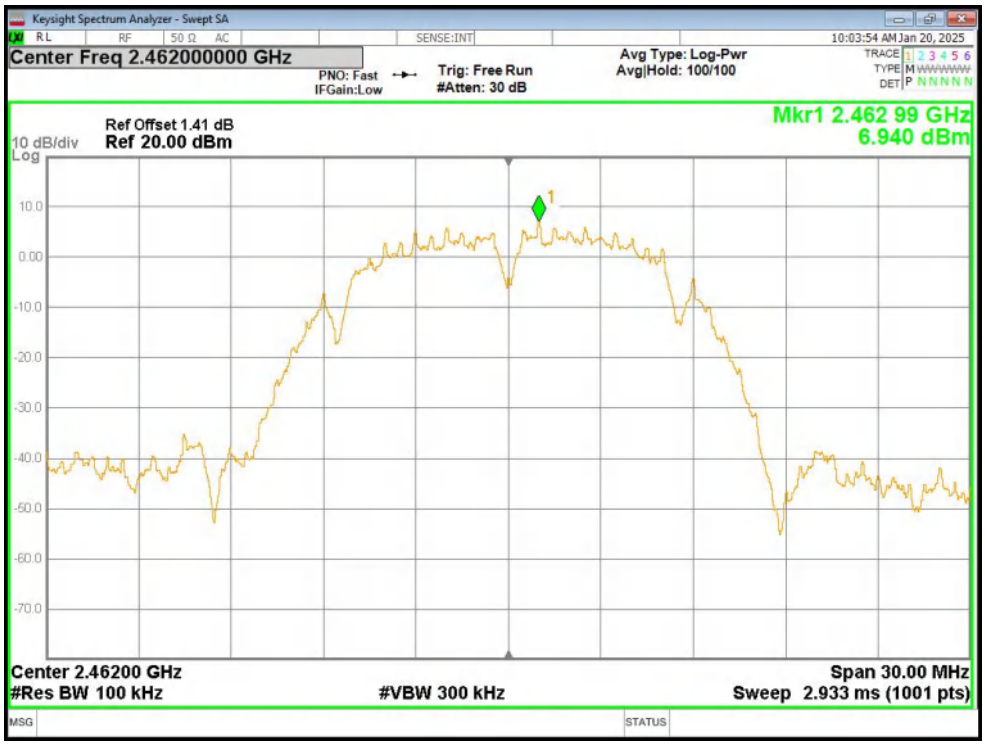
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-51.59	-20	Pass
b	2462	-64.25	-20	Pass
g	2412	-33.86	-20	Pass
g	2462	-45.12	-20	Pass
n20	2412	-33.76	-20	Pass
n20	2462	-42.02	-20	Pass
n40	2422	-39.79	-20	Pass
n40	2452	-37.13	-20	Pass

Test Graphs
Band Edge NVNT b 2412MHz Ant1 Ref

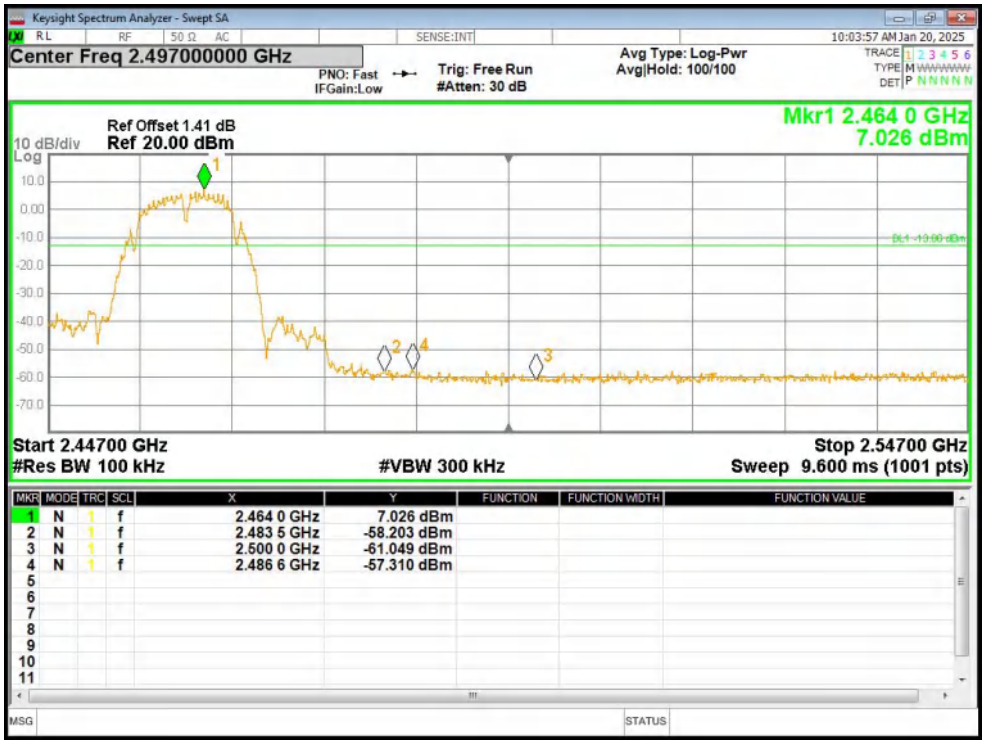
Band Edge NVNT b 2412MHz Ant1 Emission



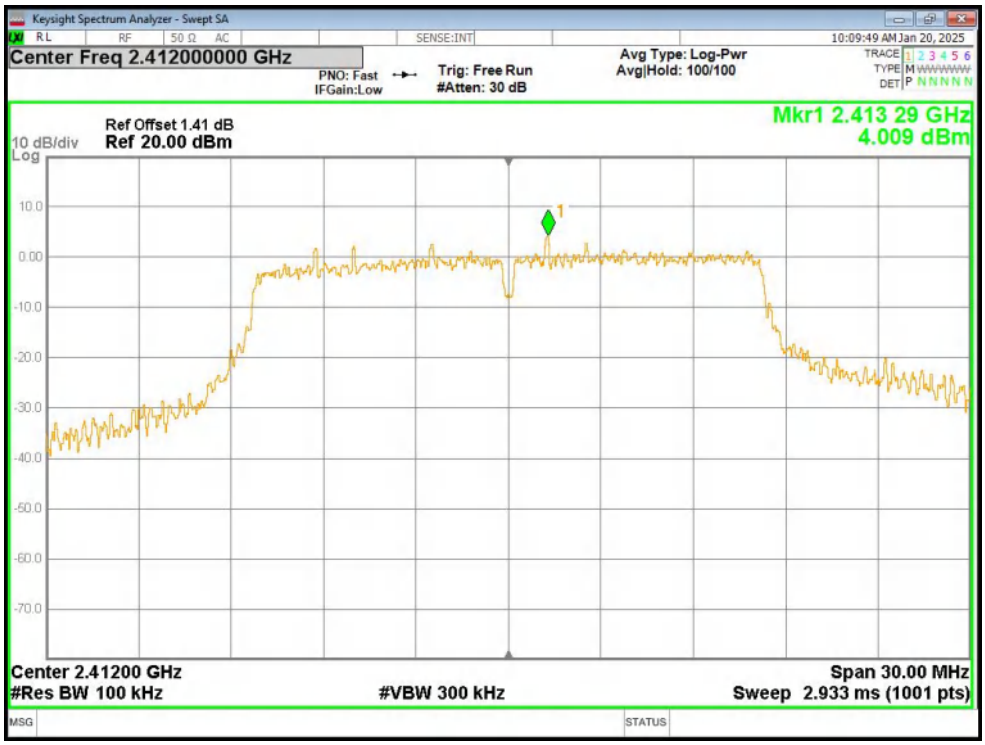
Band Edge NVNT b 2462MHz Ant1 Ref



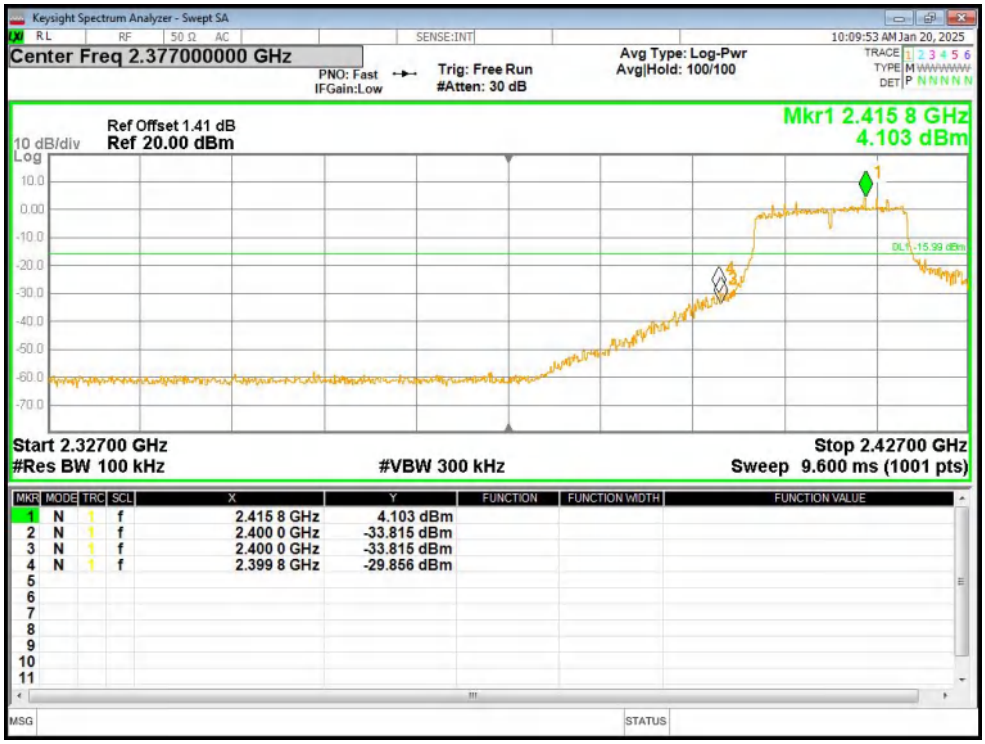
Band Edge NVNT b 2462MHz Ant1 Emission



Band Edge NVNT g 2412MHz Ant1 Ref

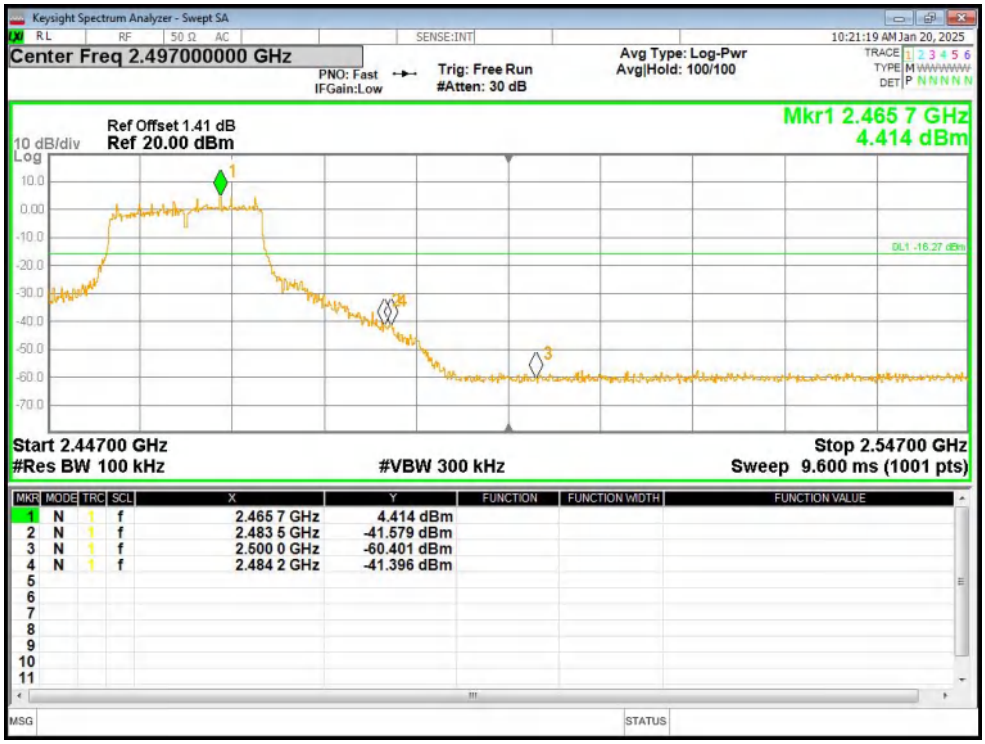


Band Edge NVNT g 2412MHz Ant1 Emission

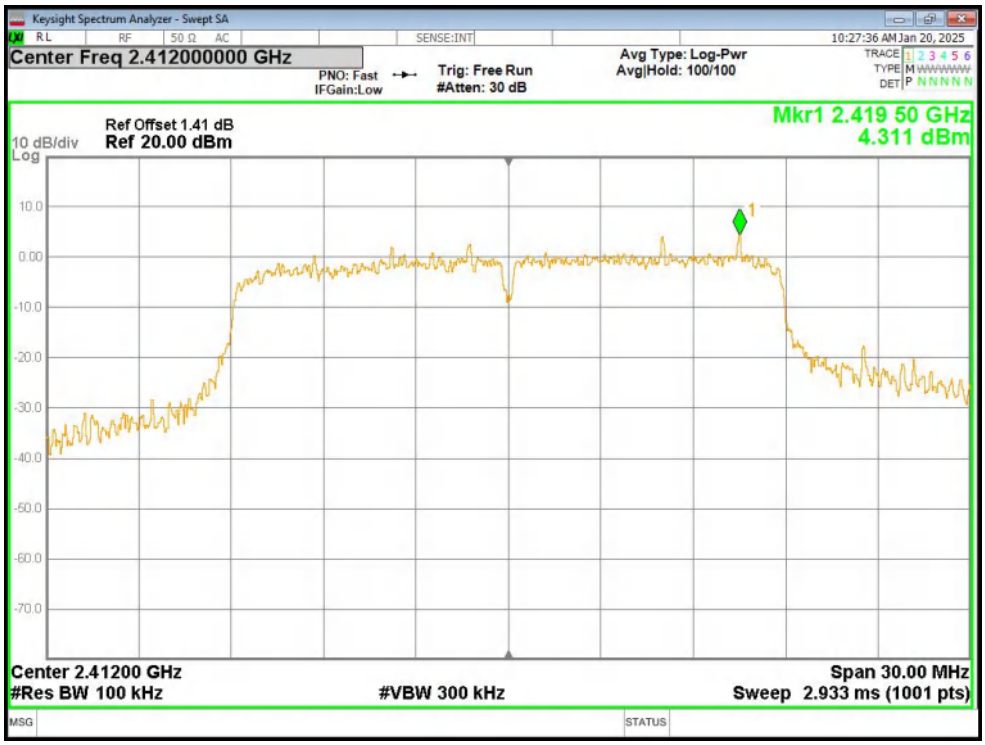


Band Edge NVNT g 2462MHz Ant1 Ref

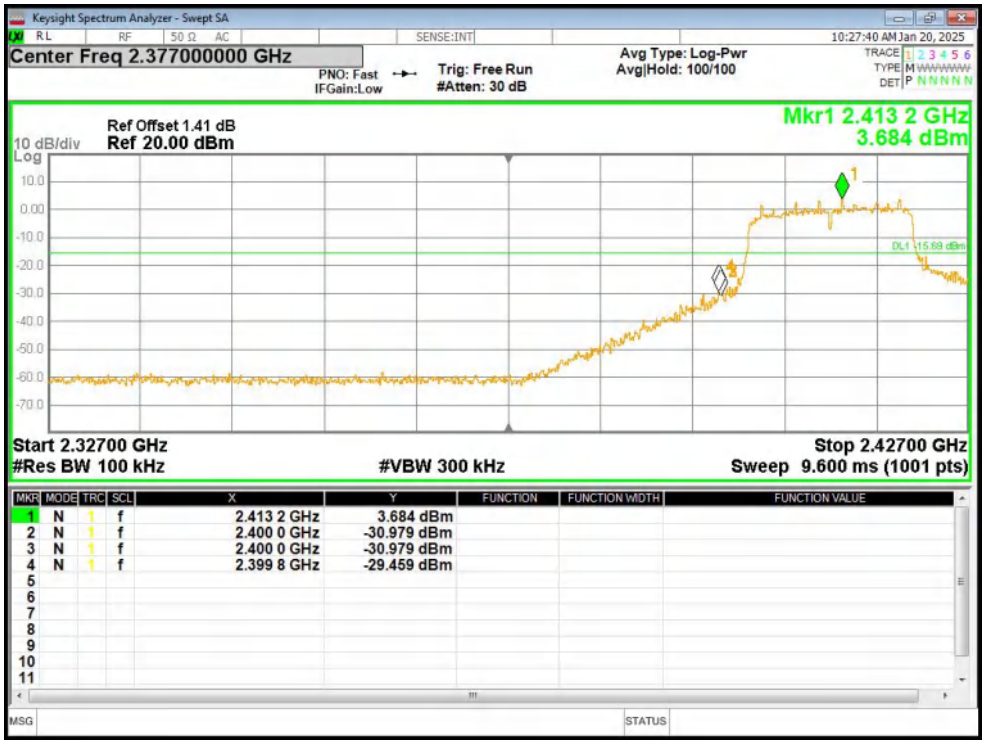
Band Edge NVNT g 2462MHz Ant1 Emission



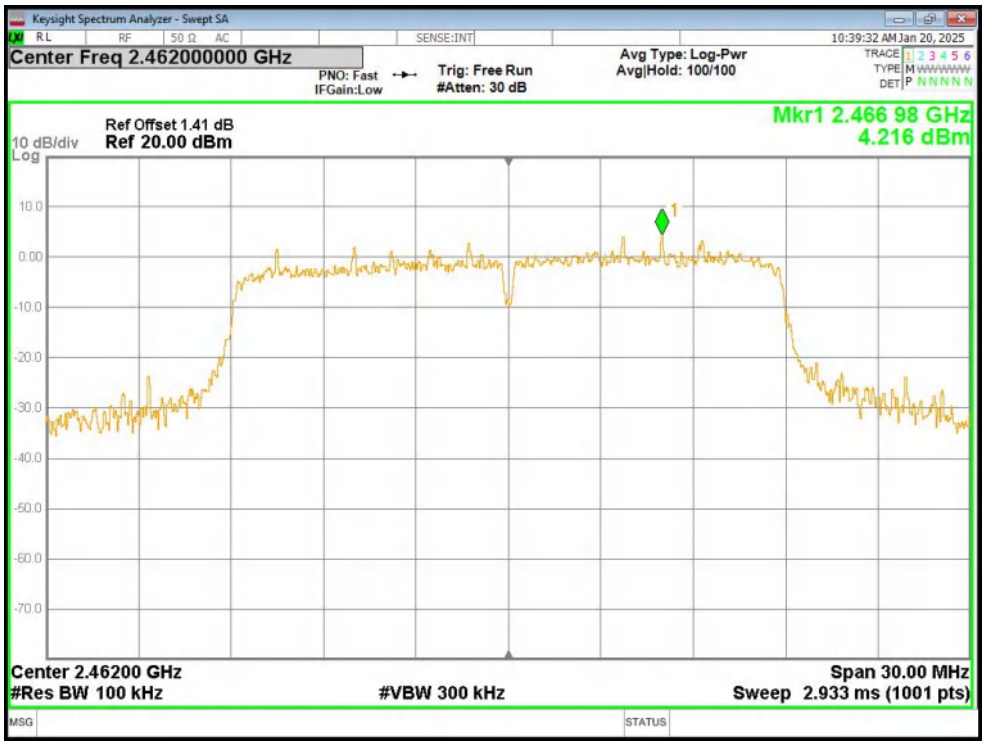
Band Edge NVNT n20 2412MHz Ant1 Ref



Band Edge NVNT n20 2412MHz Ant1 Emission



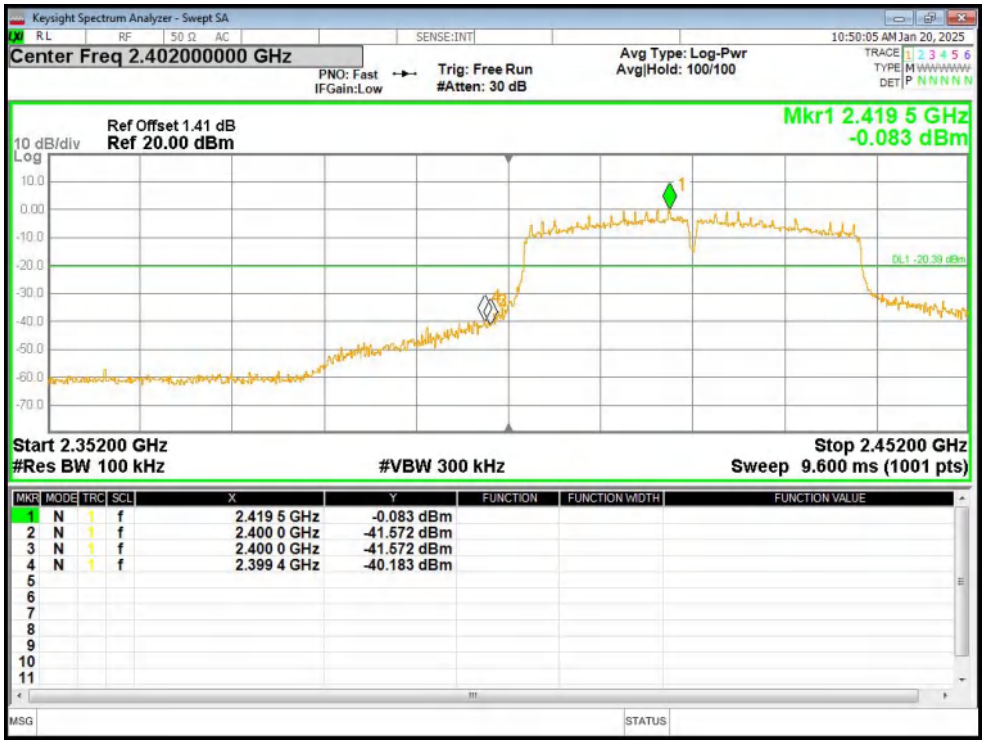
Band Edge NVNT n20 2462MHz Ant1 Ref



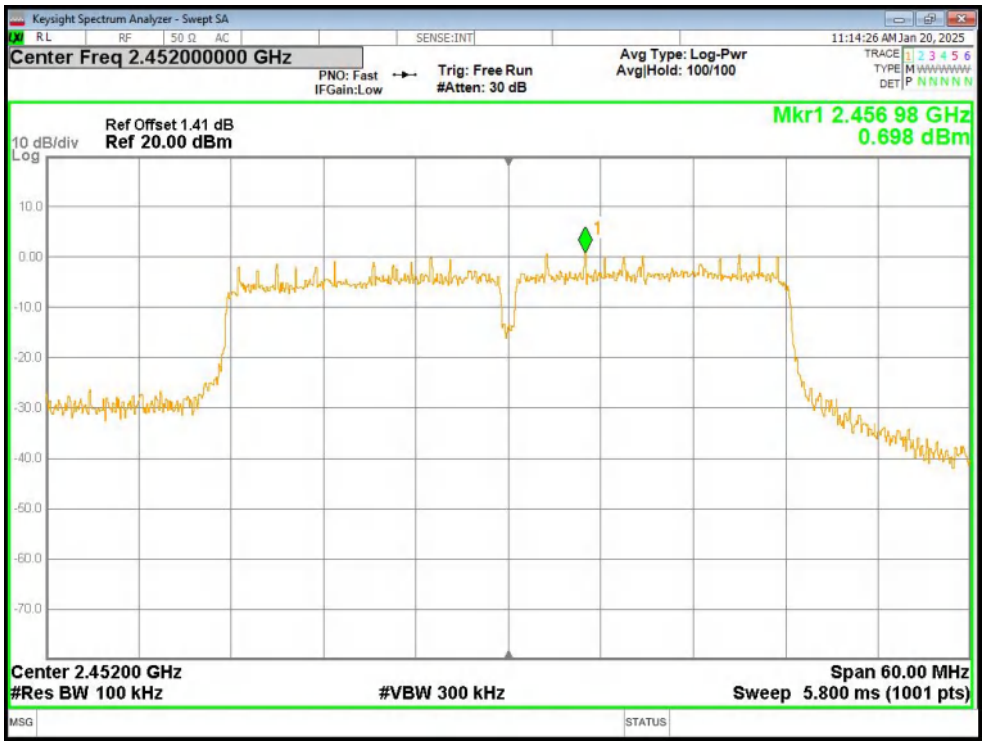
Band Edge NVNT n20 2462MHz Ant1 Emission

Band Edge NVNT n40 2422MHz Ant1 Ref

Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref

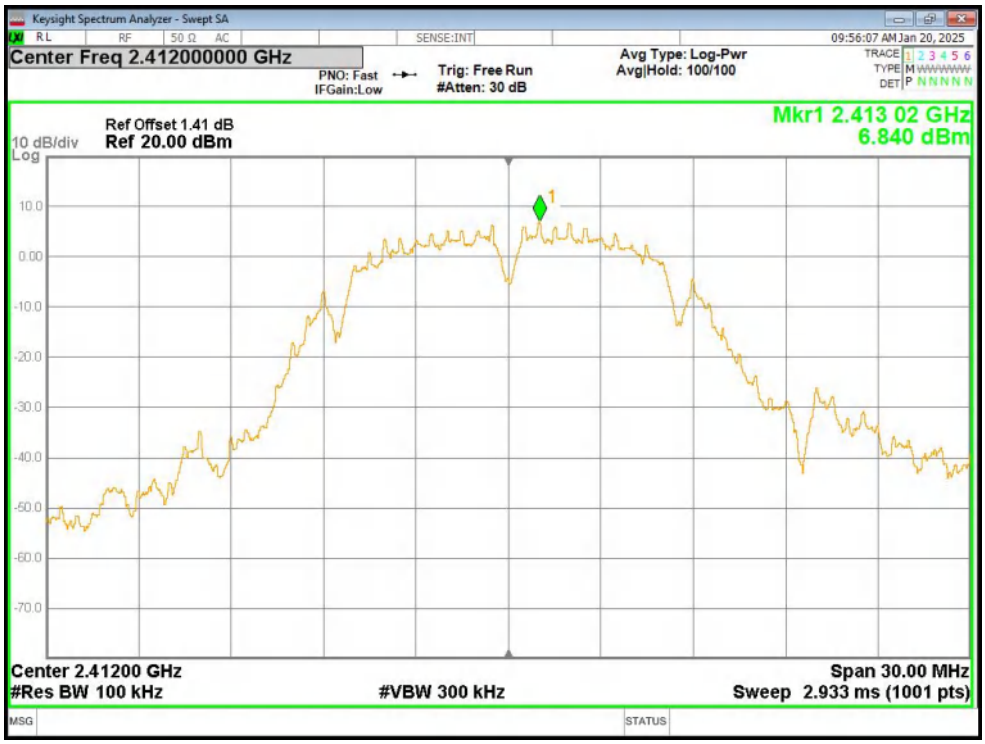


Band Edge NVNT n40 2452MHz Ant1 Emission

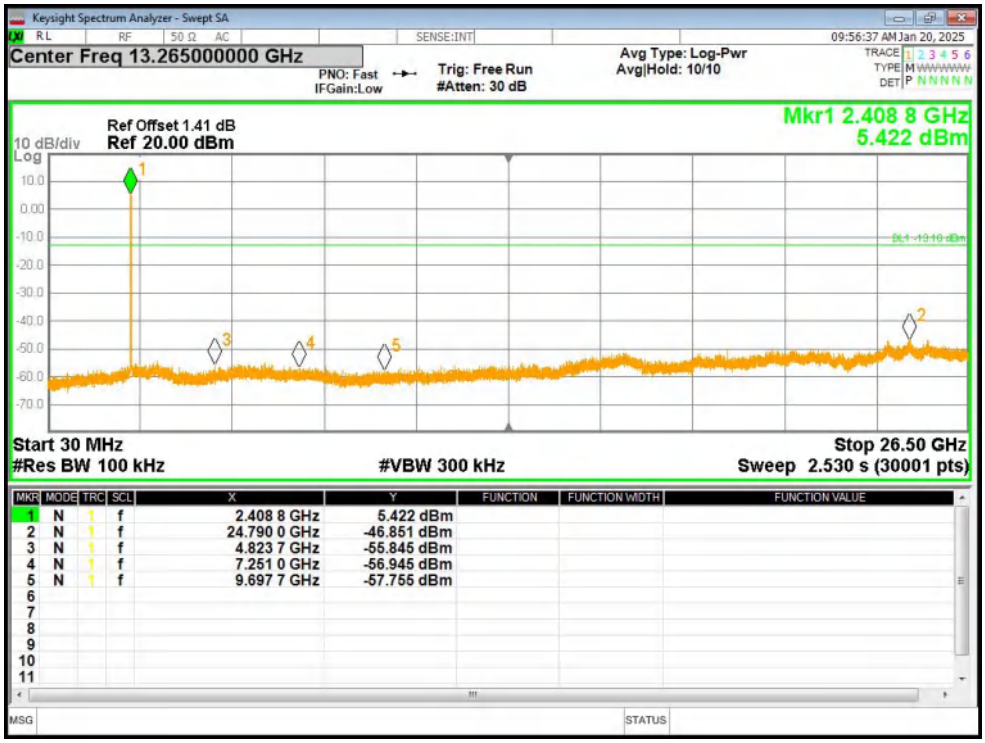
7.Conducted RF Spurious Emission

Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	-53.69	-20	Pass
b	2437	-51.61	-20	Pass
b	2462	-54.01	-20	Pass
g	2412	-51.41	-20	Pass
g	2437	-48.55	-20	Pass
g	2462	-51.51	-20	Pass
n20	2412	-51.73	-20	Pass
n20	2437	-48.51	-20	Pass
n20	2462	-51.05	-20	Pass
n40	2422	-47.96	-20	Pass
n40	2437	-45.51	-20	Pass
n40	2452	-48.45	-20	Pass

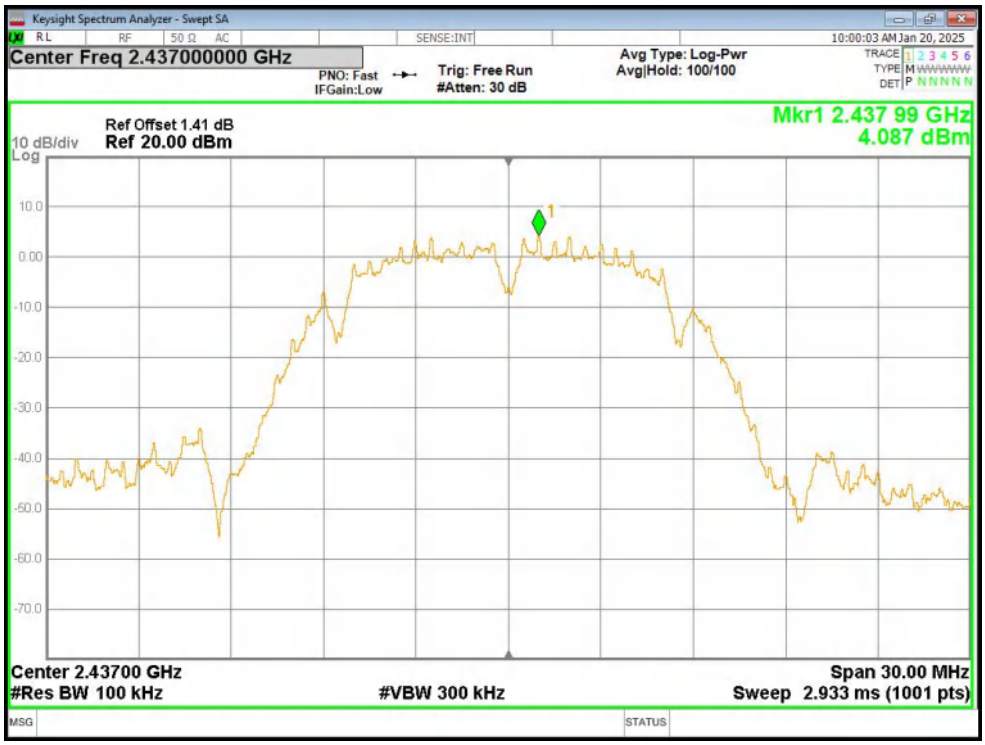
Test Graphs
Tx. Spurious NVNT b 2412MHz Ant1 Ref



Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref



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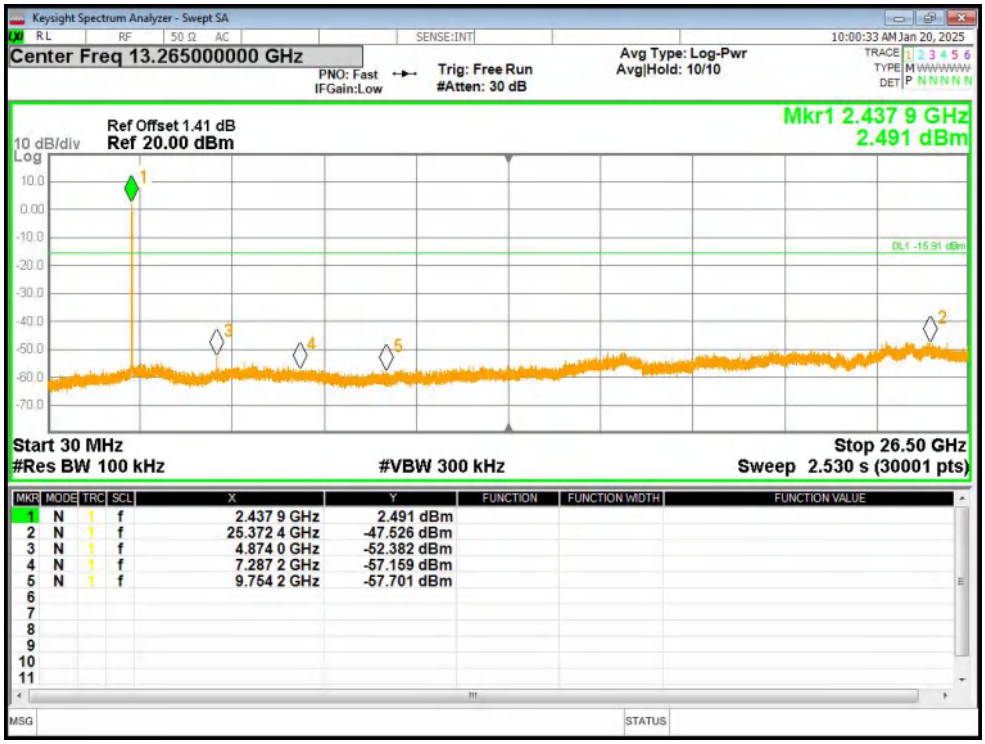

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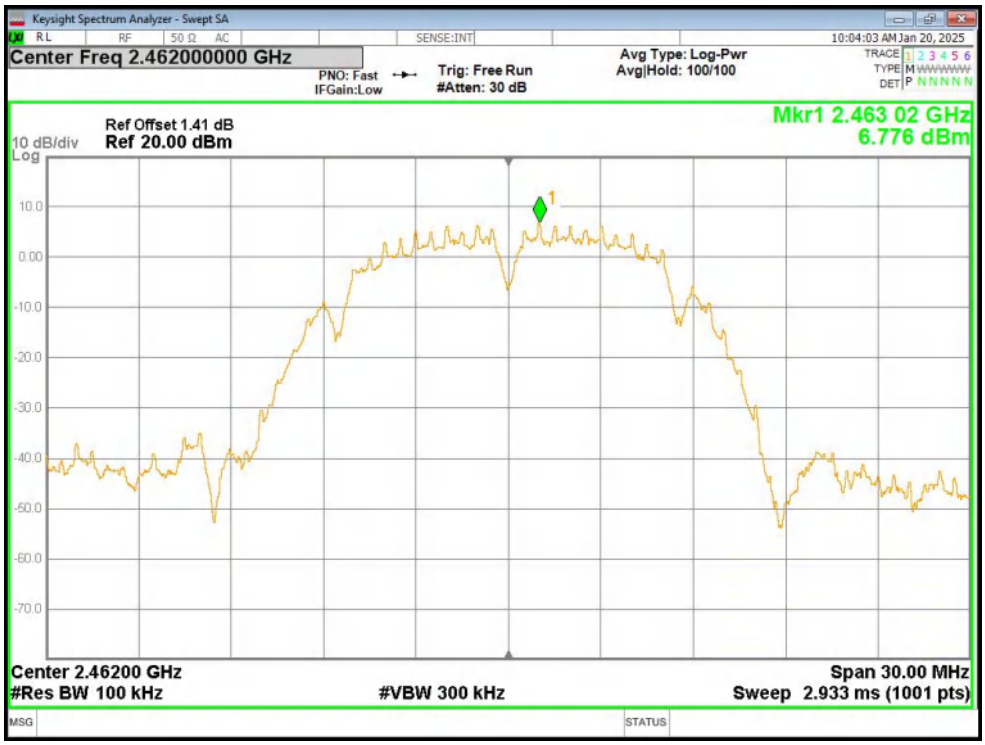
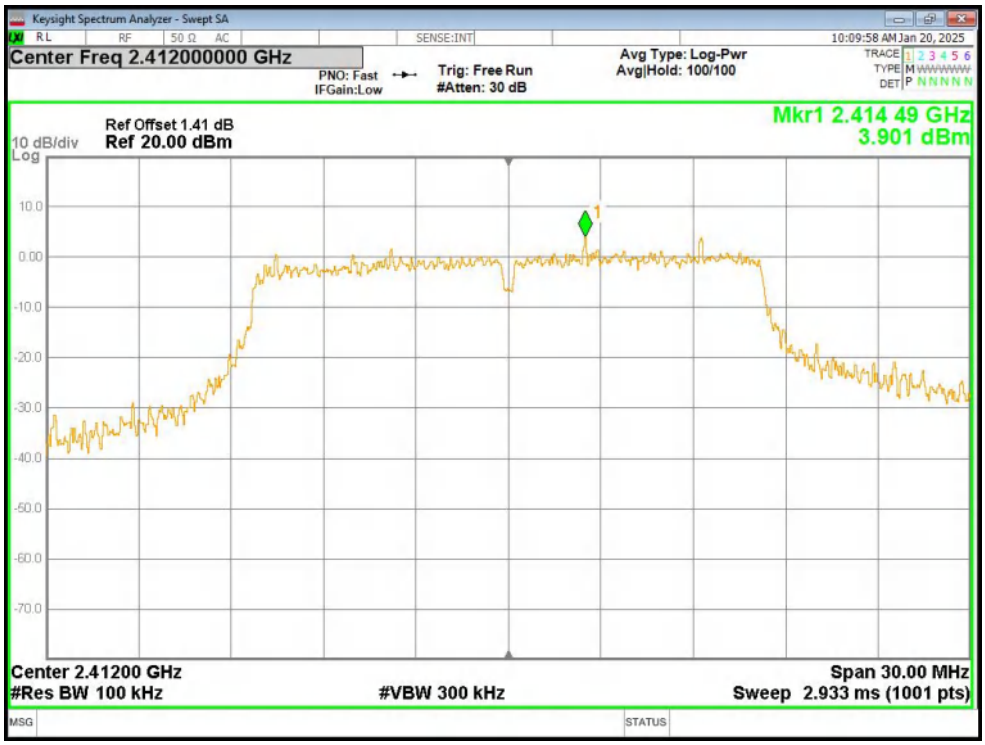
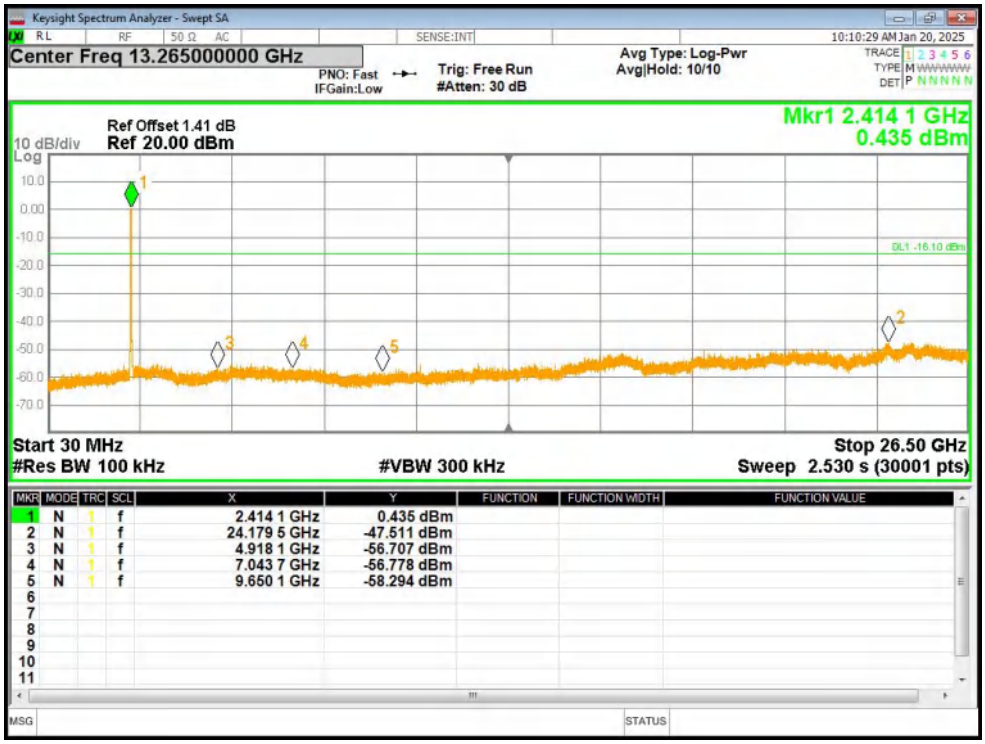


Tx. Spurious NVNT b 2462MHz Ant1 Emission

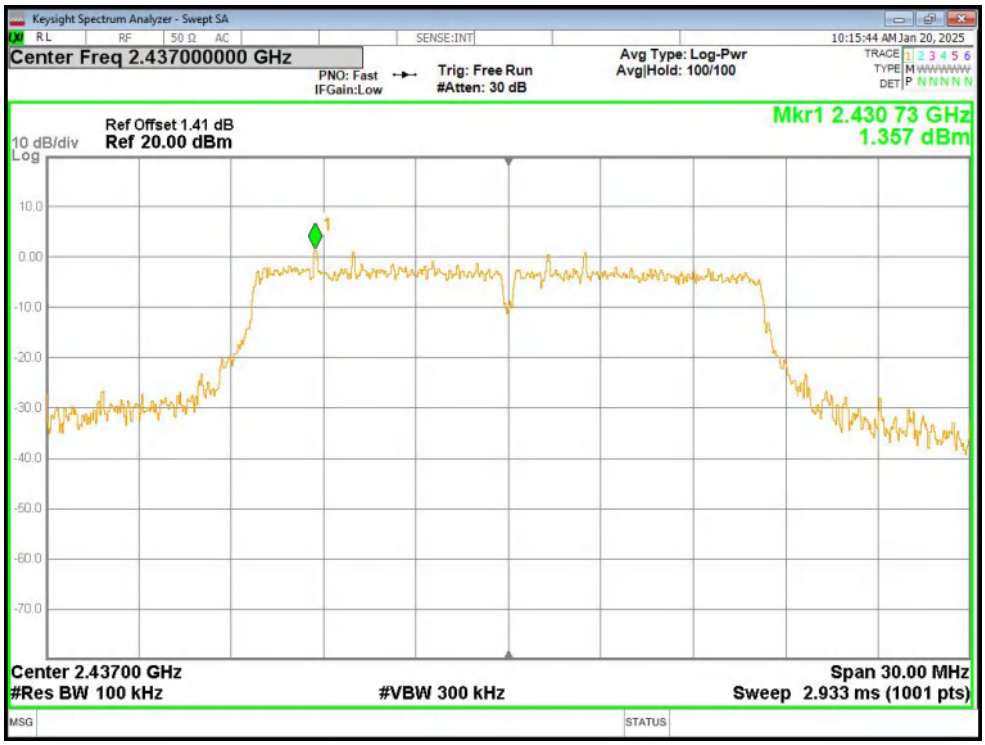
Tx. Spurious NVNT g 2412MHz Ant1 Ref



Tx. Spurious NVNT g 2412MHz Ant1 Emission

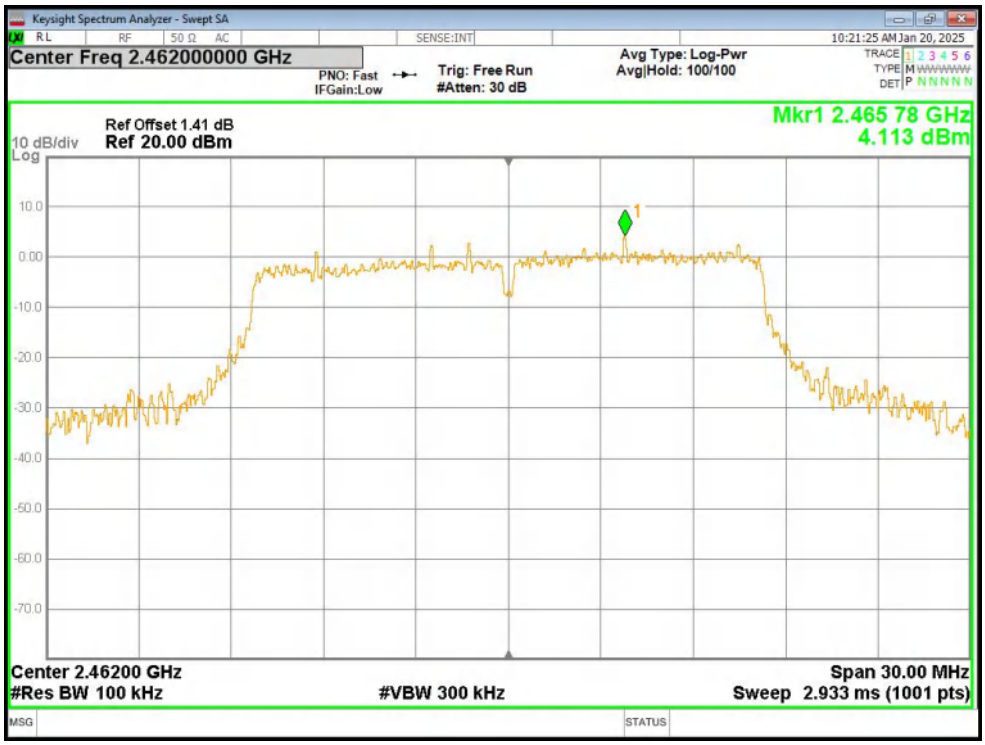


Tx. Spurious NVNT g 2437MHz Ant1 Ref

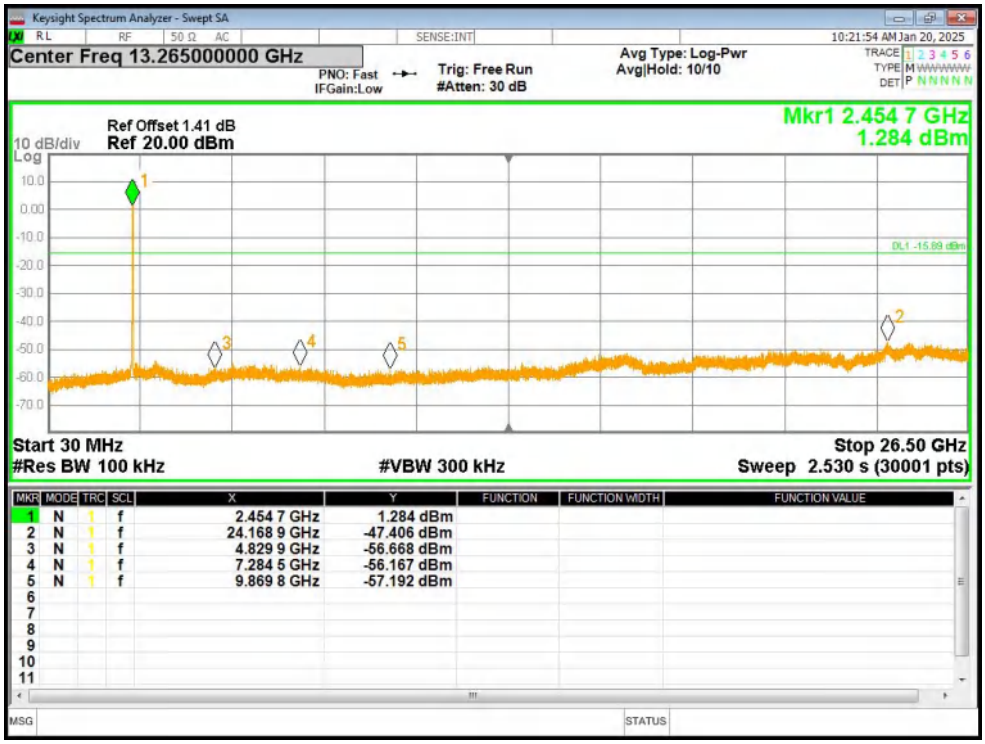


Tx. Spurious NVNT g 2437MHz Ant1 Emission

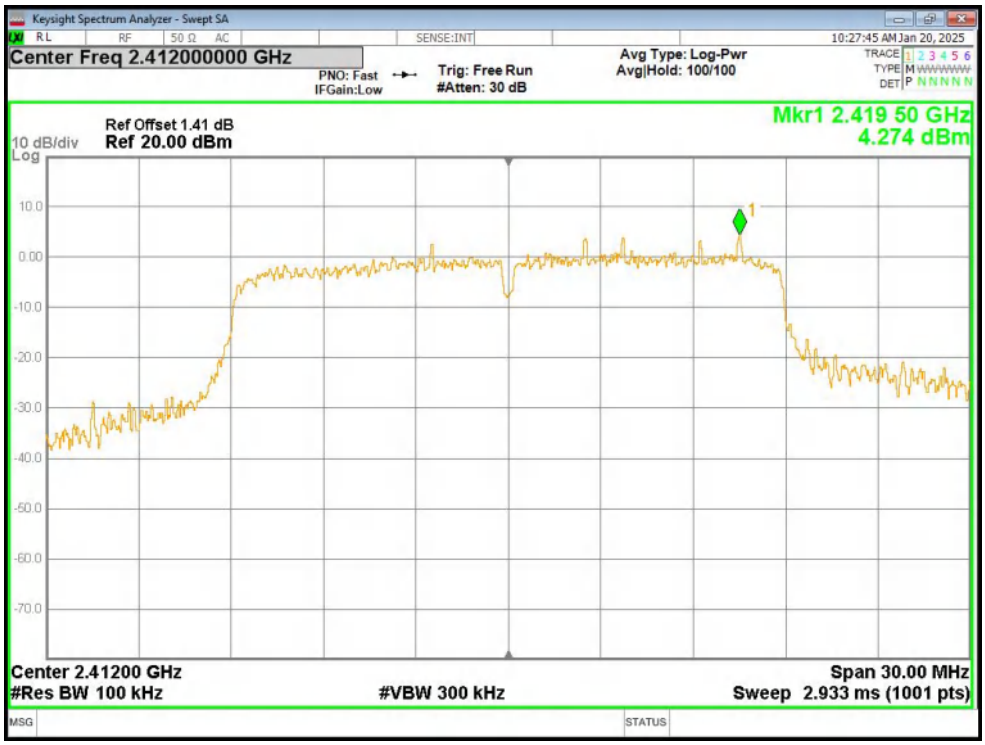
Tx. Spurious NVNT g 2462MHz Ant1 Ref



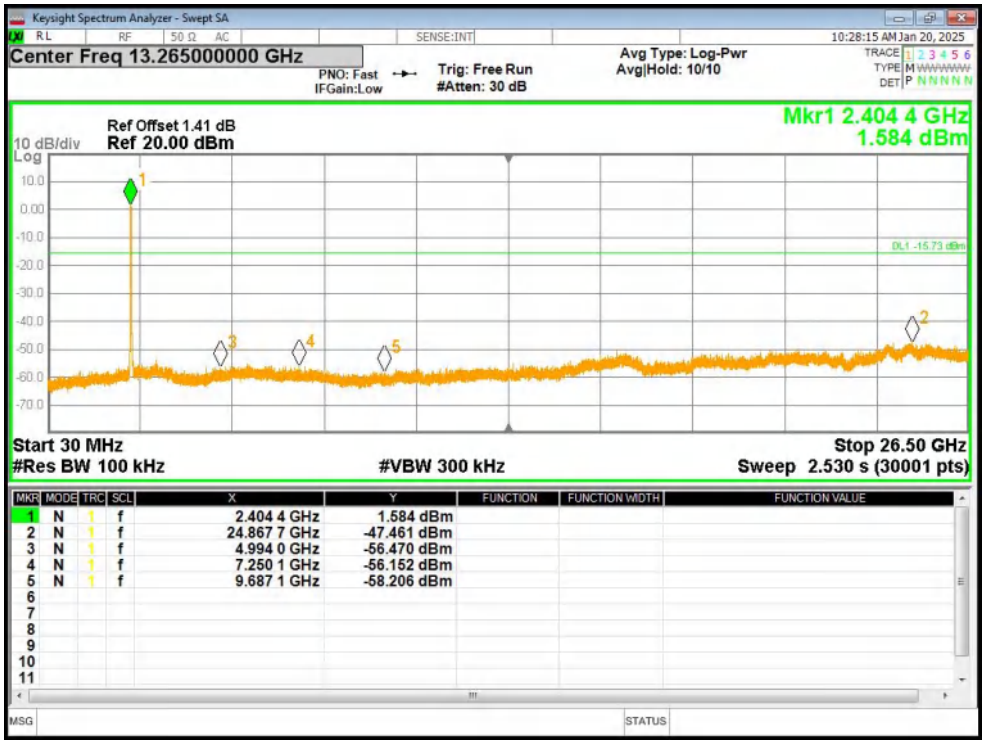
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



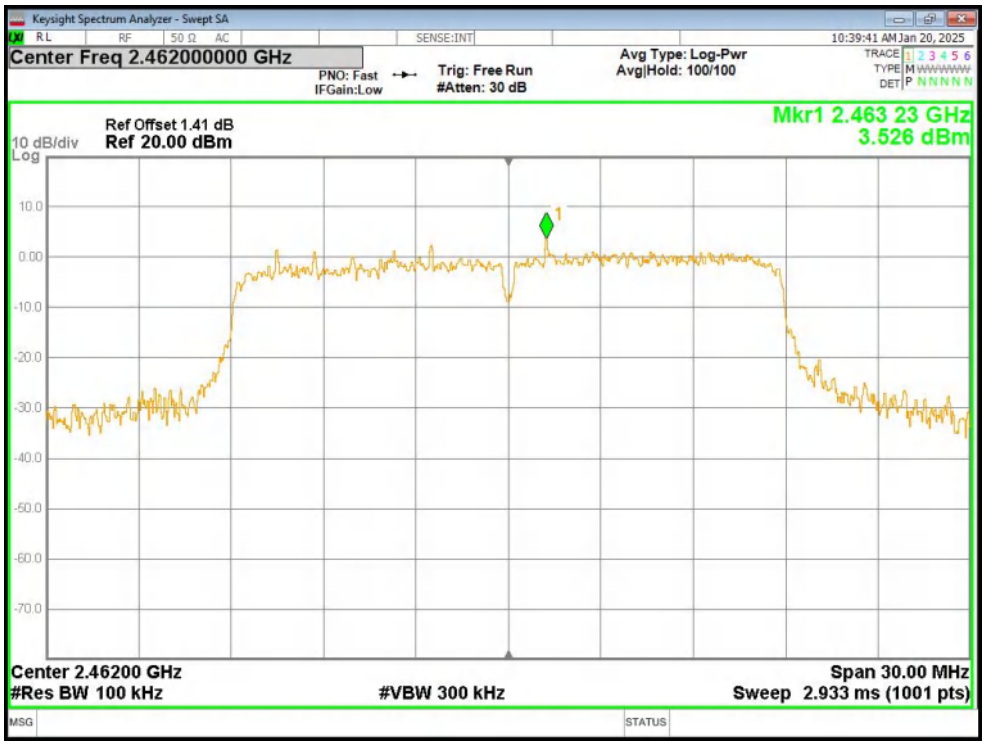
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref

Tx. Spurious NVNT n20 2437MHz Ant1 Emission

Tx. Spurious NVNT n20 2462MHz Ant1 Ref

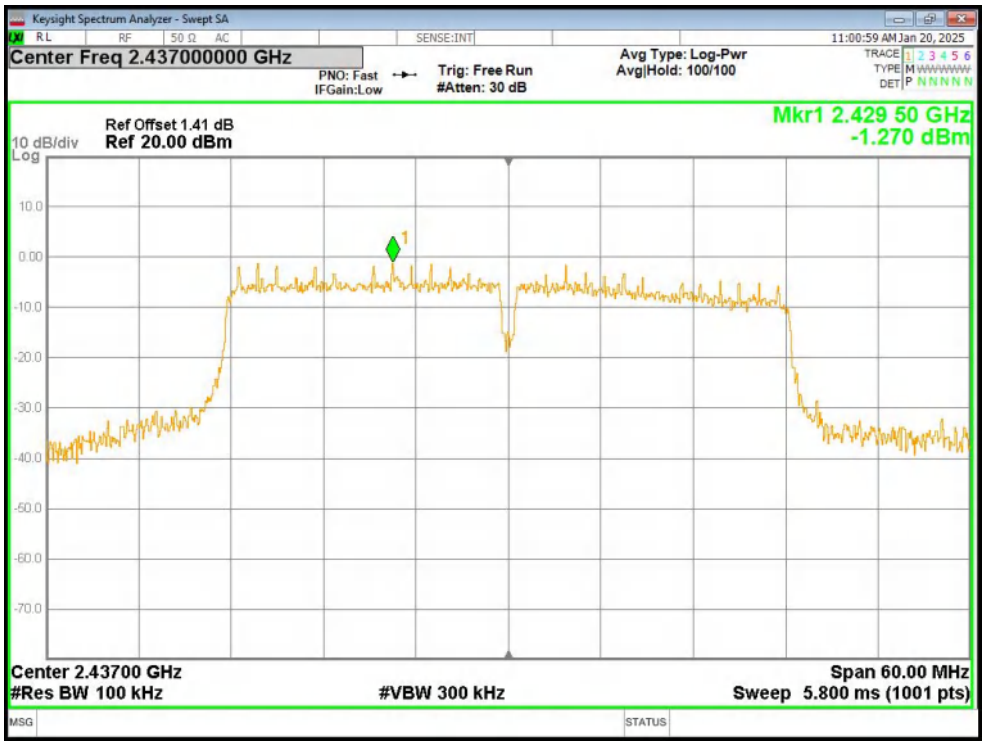


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

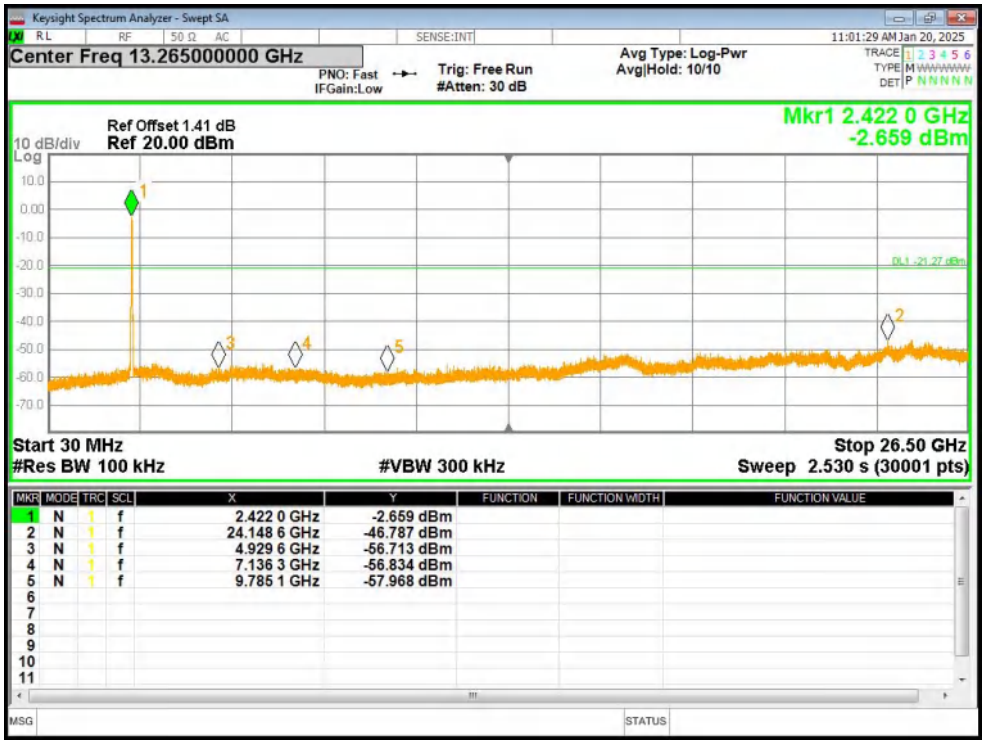
Tx. Spurious NVNT n40 2422MHz Ant1 Ref

Tx. Spurious NVNT n40 2422MHz Ant1 Emission

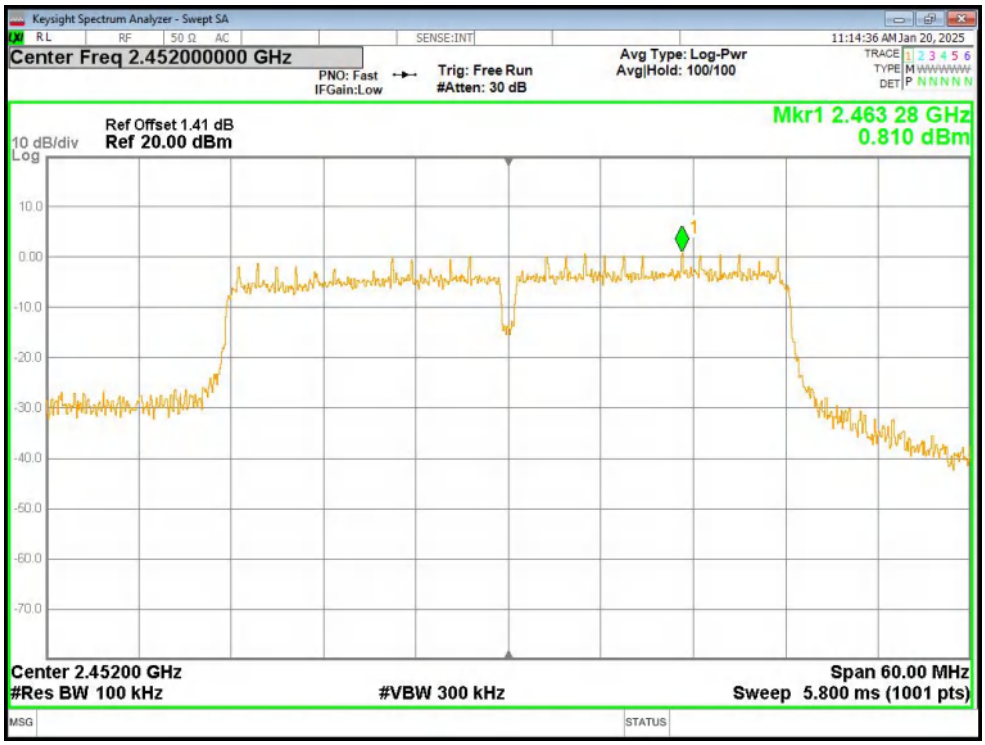
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission