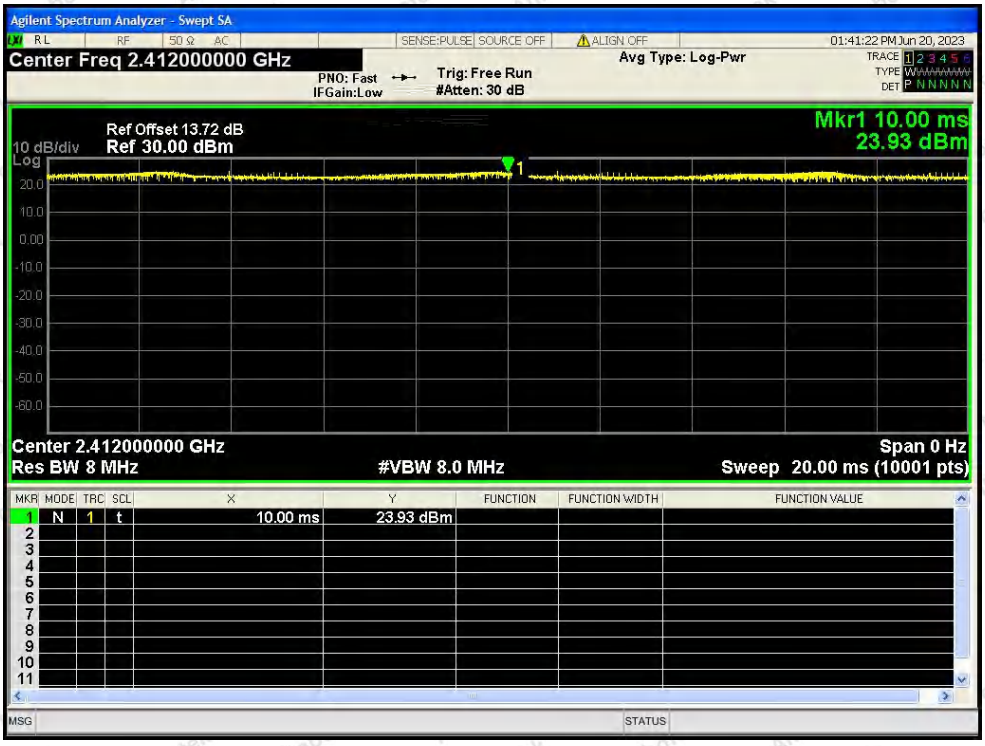
Appendix Test Data

Duty Cycle of Test Signal

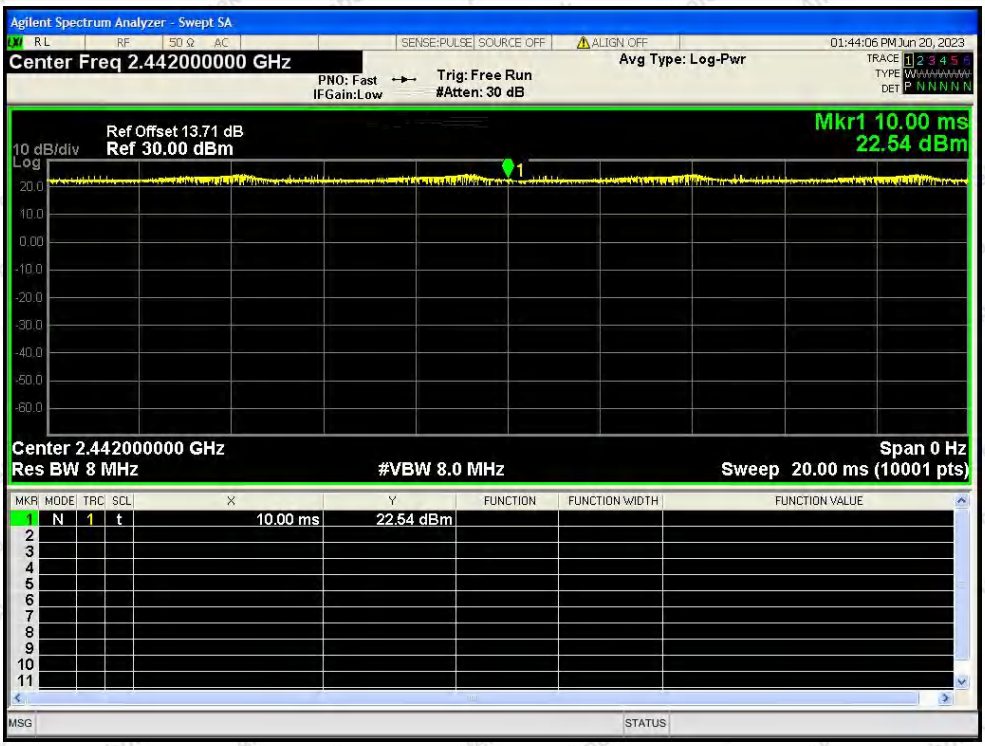
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2442	Ant1	100	0	0
NVNT	b	2472	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2442	Ant1	100	0	0
NVNT	g	2472	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2442	Ant1	100	0	0
NVNT	n20	2472	Ant1	100	0	0

Test Graphs

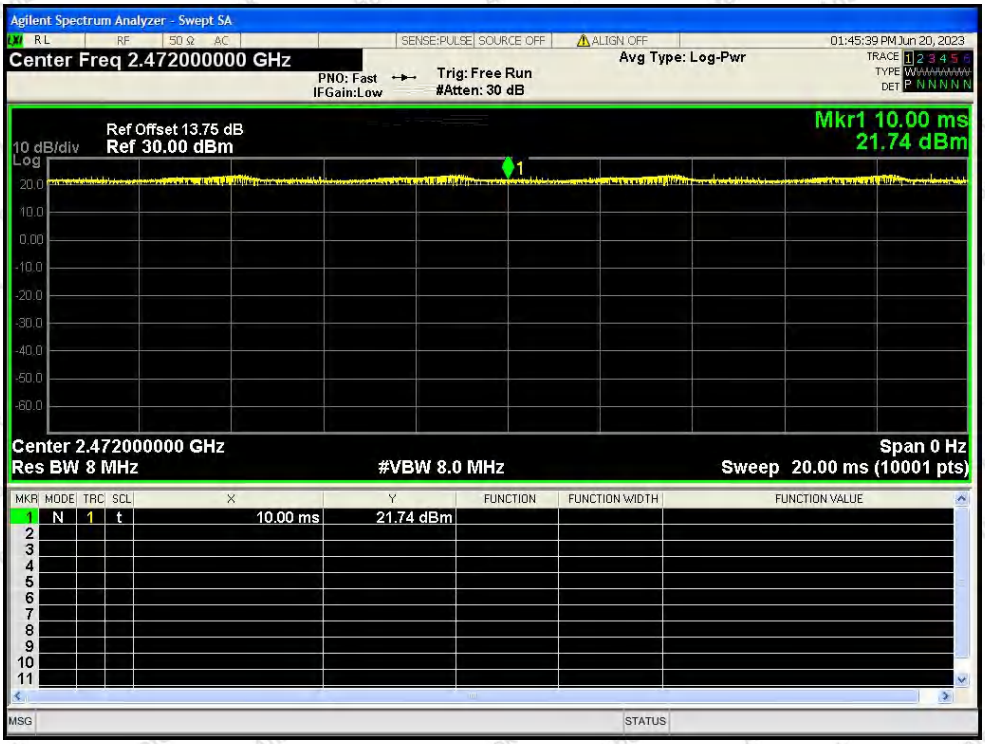
Duty Cycle NVNT b 2412MHz Ant1



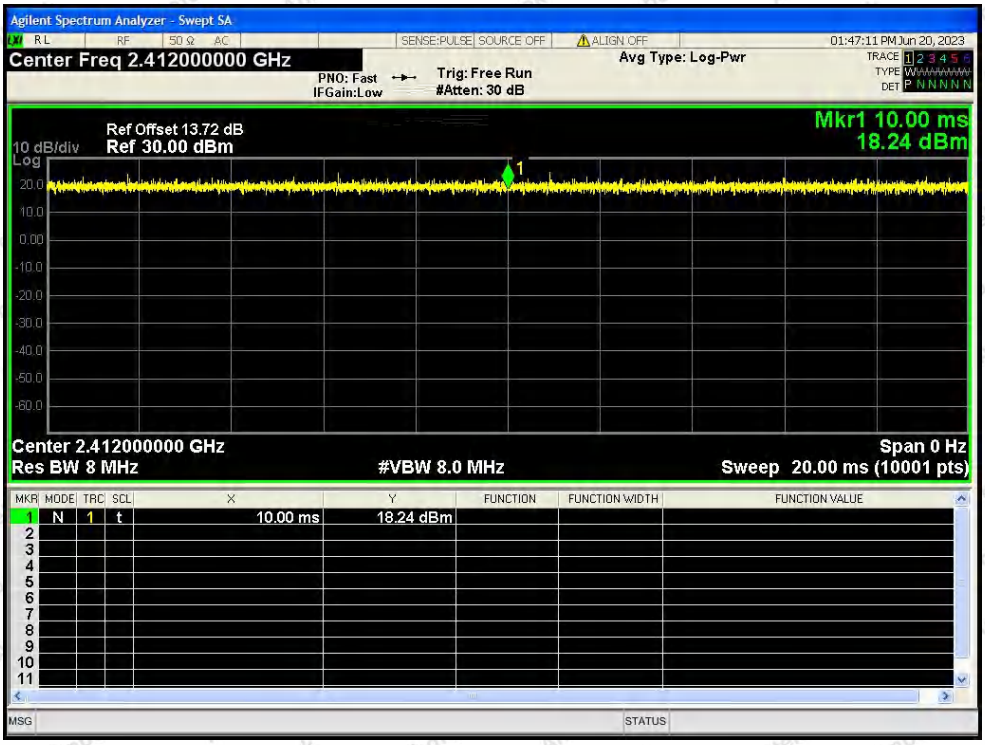
Duty Cycle NVNT b 2442MHz Ant1



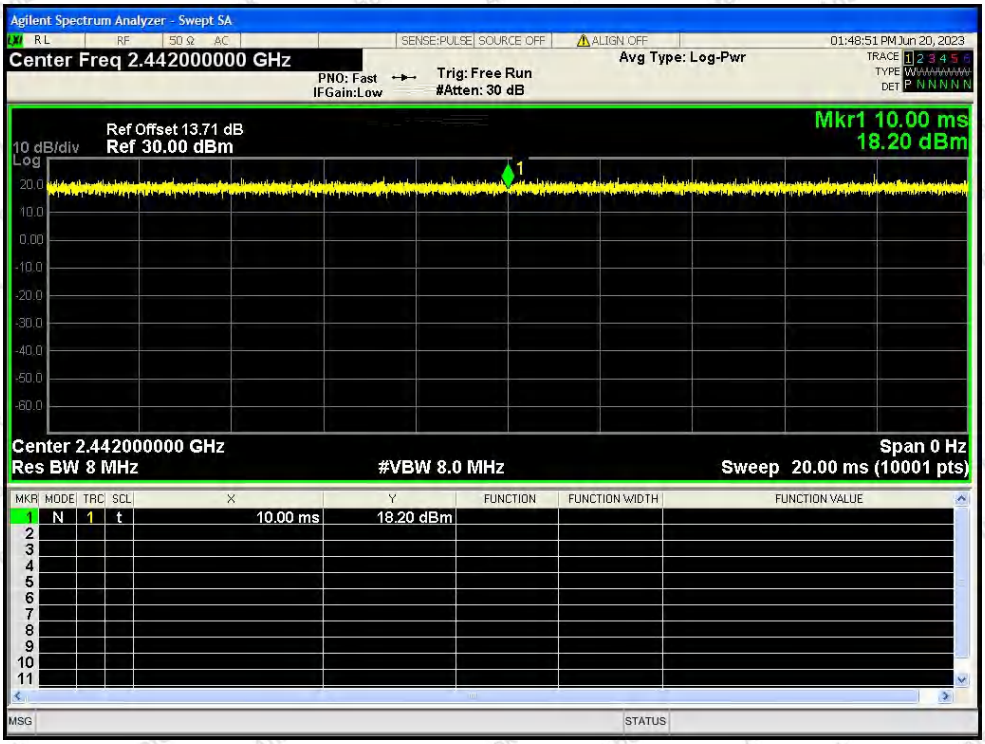
Duty Cycle NVNT b 2472MHz Ant1



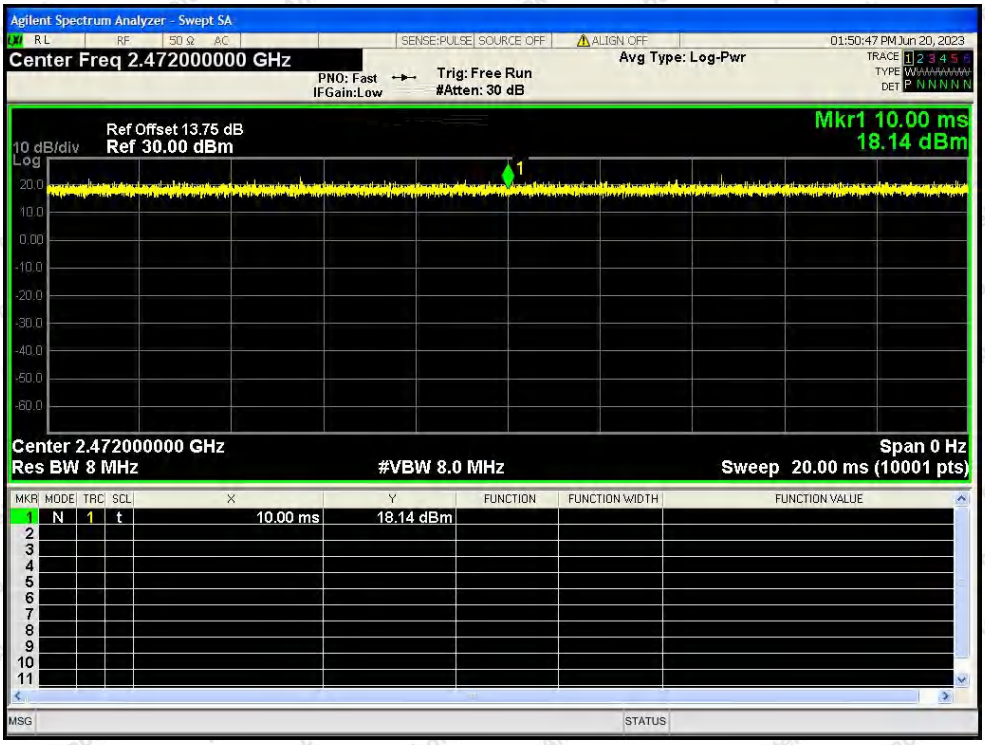
Duty Cycle NVNT g 2412MHz Ant1



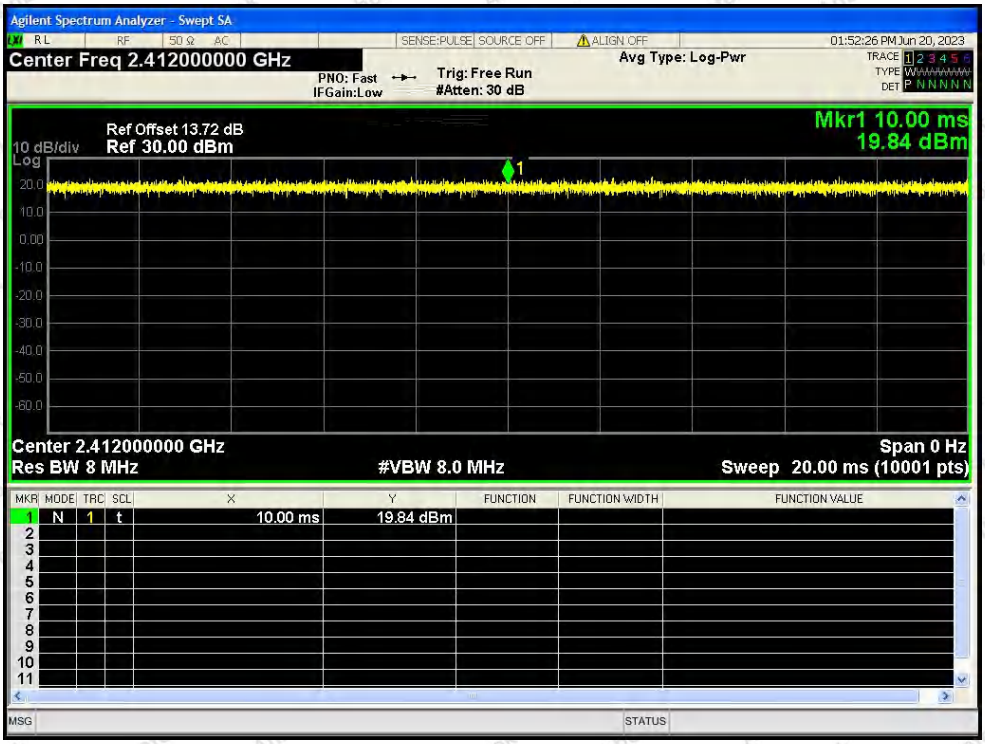
Duty Cycle NVNT g 2442MHz Ant1



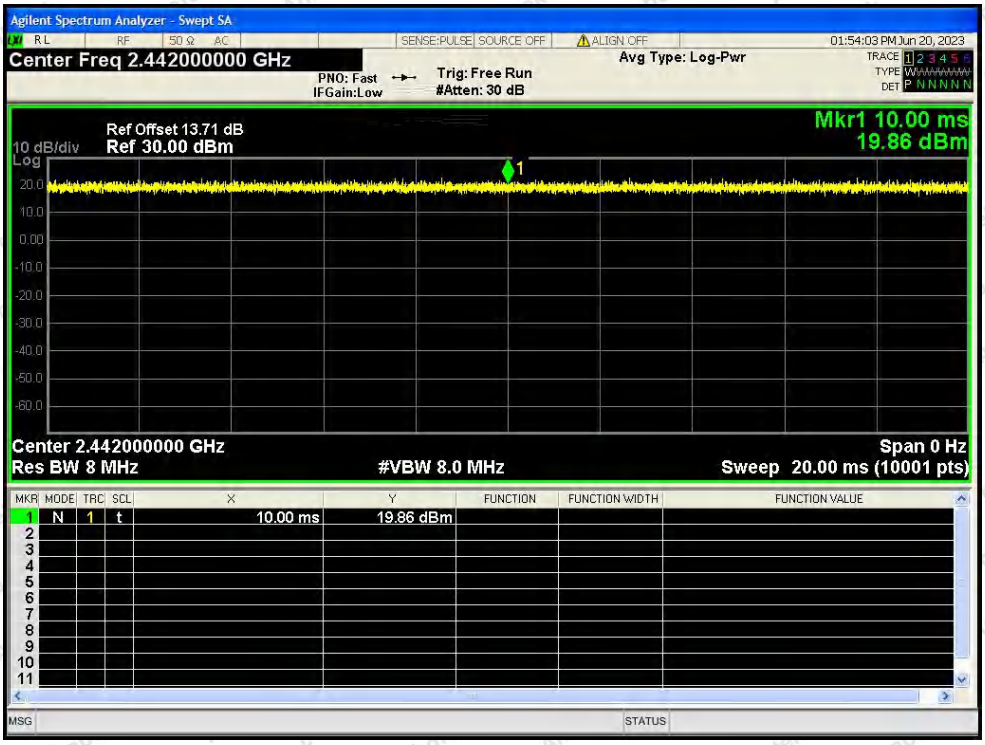
Duty Cycle NVNT g 2472MHz Ant1



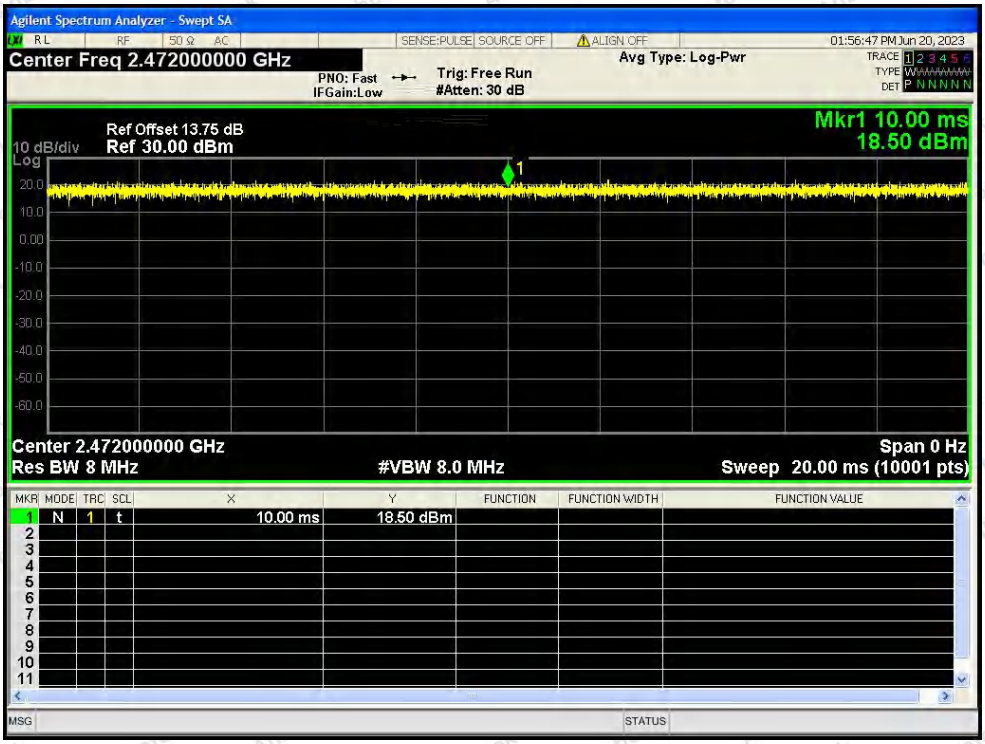
Duty Cycle NVNT n20 2412MHz Ant1



Duty Cycle NVNT n20 2442MHz Ant1



Duty Cycle NVNT n20 2472MHz Ant1

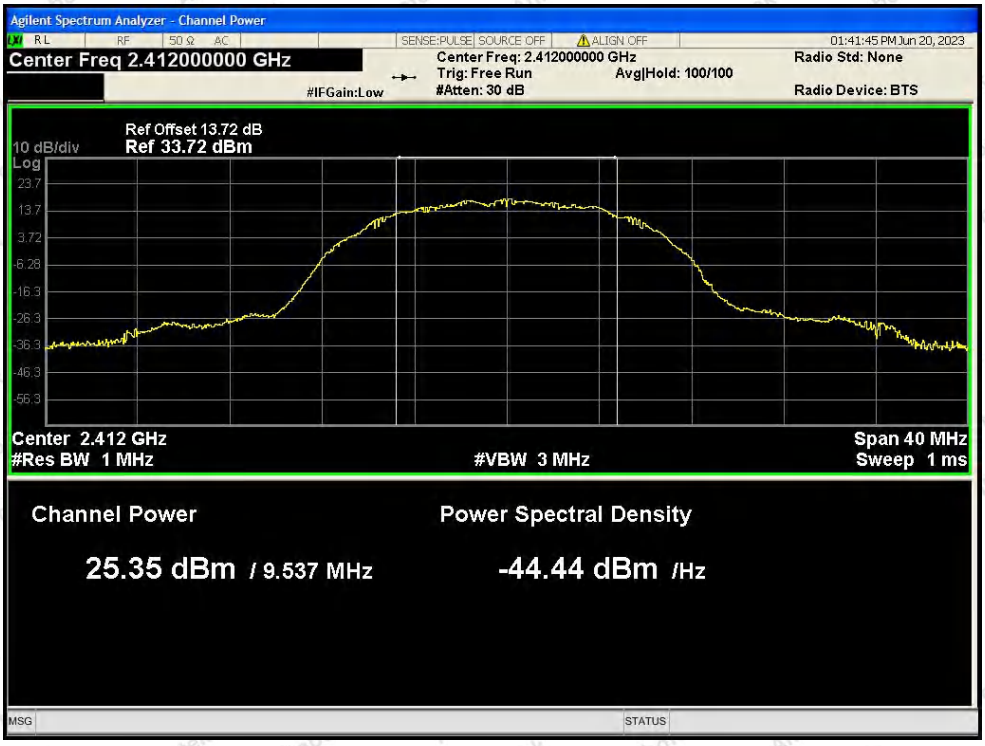


Maximum Peak Conducted Output Power

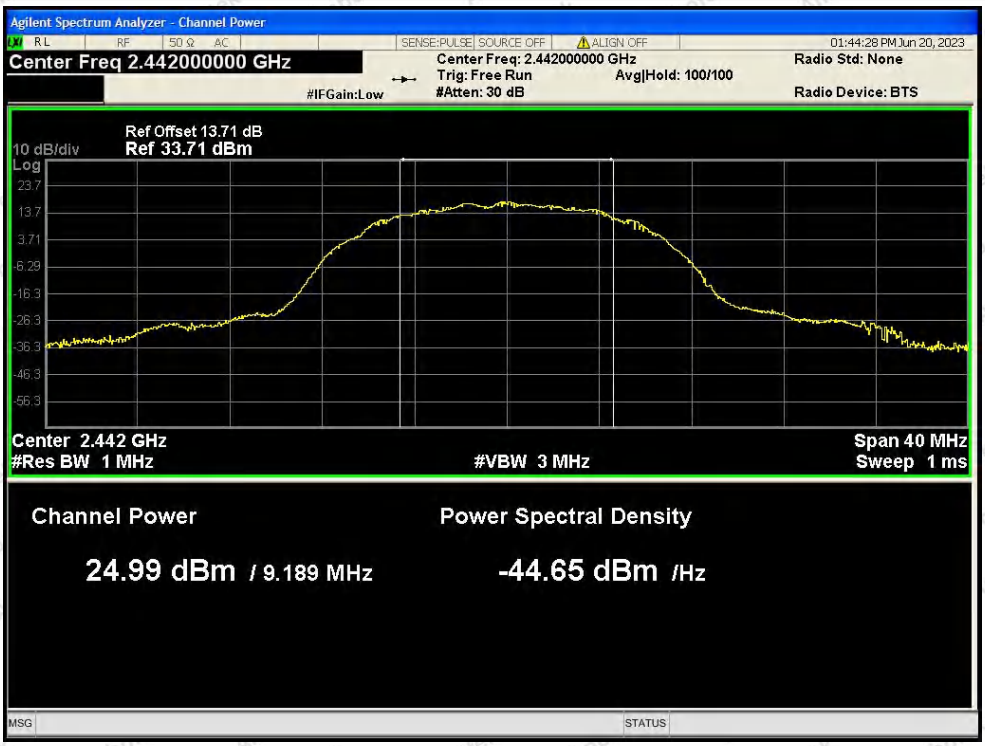
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	25.35	0	25.35	342.77	30	Pass
NVNT	b	2442	Ant1	24.99	0	24.99	315.5	30	Pass
NVNT	b	2472	Ant1	24.38	0	24.38	274.16	30	Pass
NVNT	g	2412	Ant1	24.57	0	24.57	286.42	30	Pass
NVNT	g	2442	Ant1	24.51	0	24.51	282.49	30	Pass
NVNT	g	2472	Ant1	23.6	0	23.6	229.09	30	Pass
NVNT	n20	2412	Ant1	24.55	0	24.55	285.1	30	Pass
NVNT	n20	2442	Ant1	24.35	0	24.35	272.27	30	Pass
NVNT	n20	2472	Ant1	23.55	0	23.55	226.46	30	Pass

Test Graphs

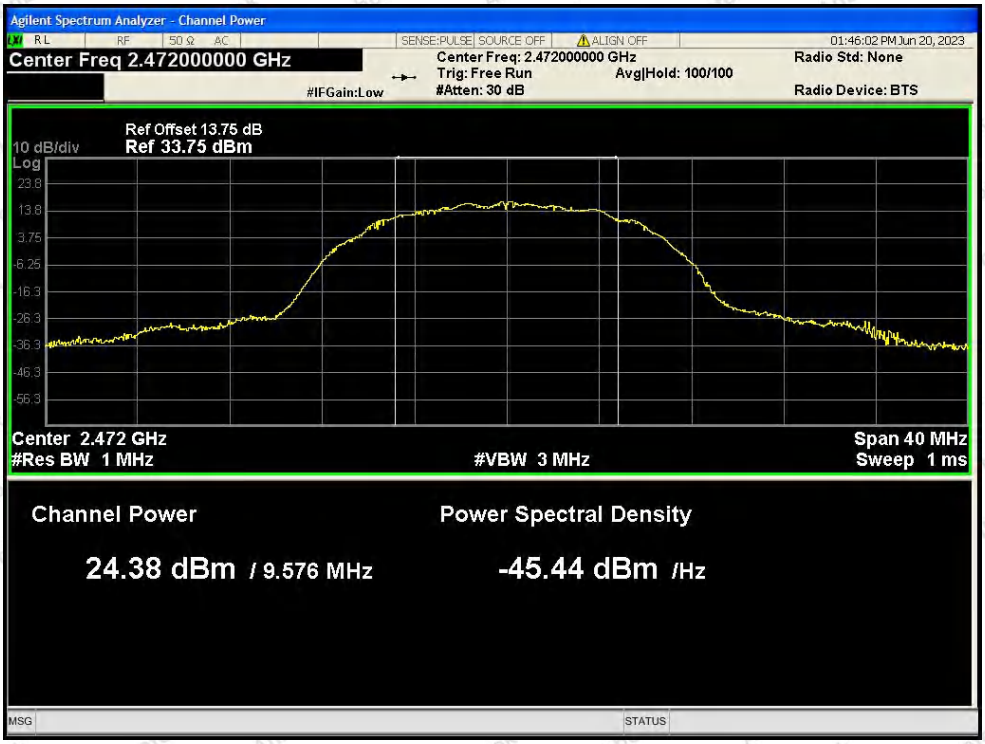
Peak Power NVNT b 2412MHz Ant1



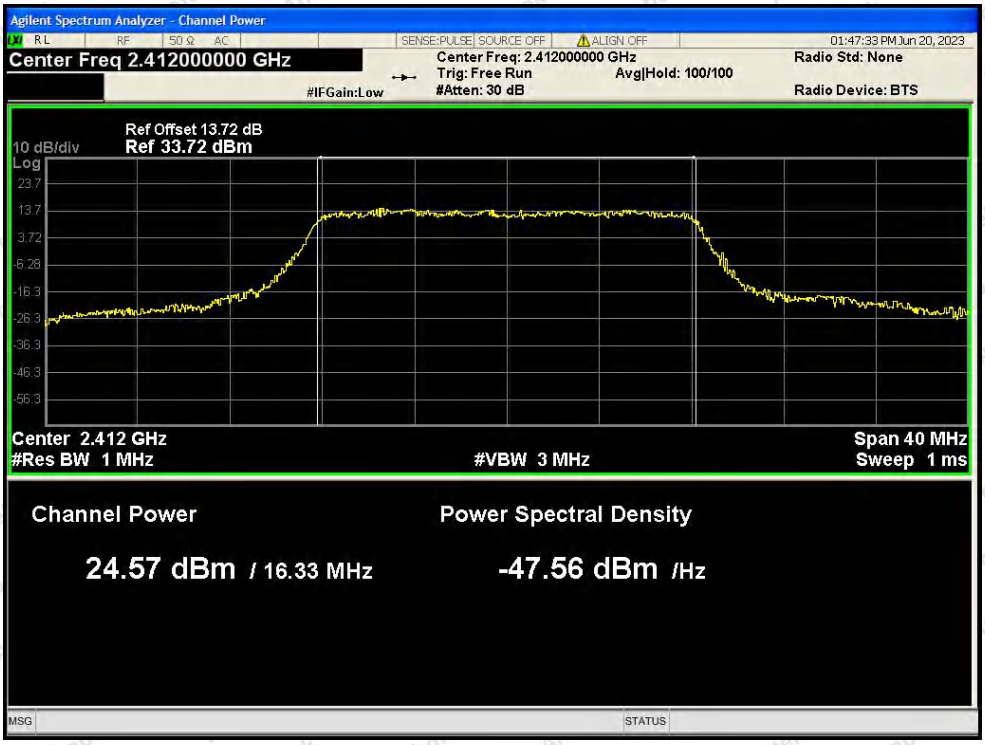
Peak Power NVNT b 2442MHz Ant1



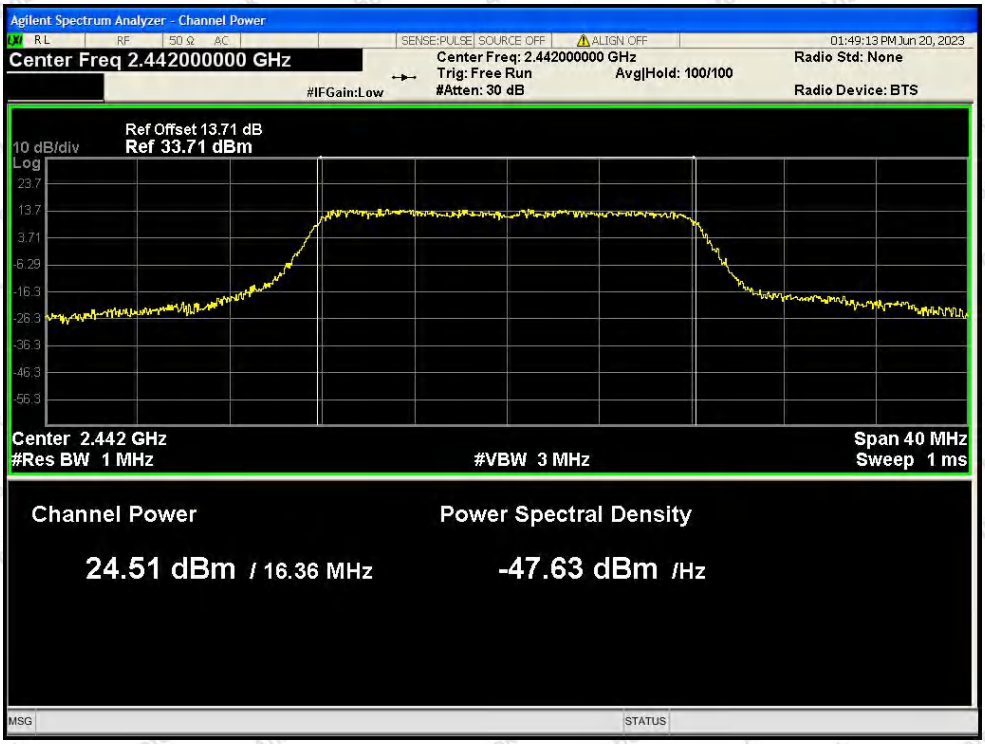
Peak Power NVNT b 2472MHz Ant1



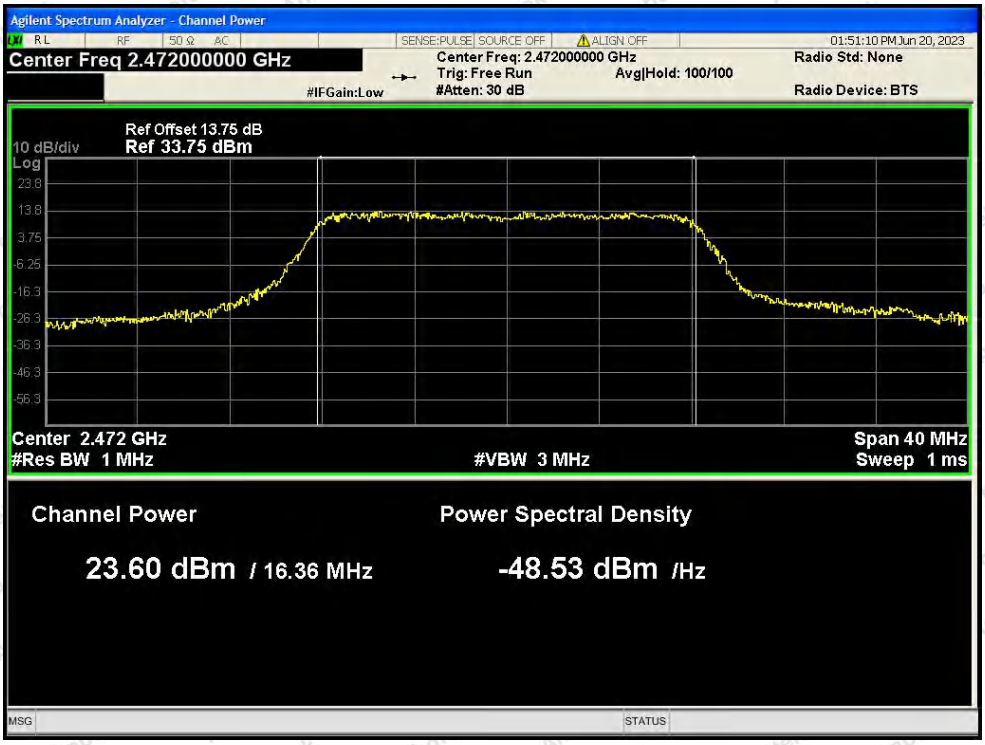
Peak Power NVNT g 2412MHz Ant1



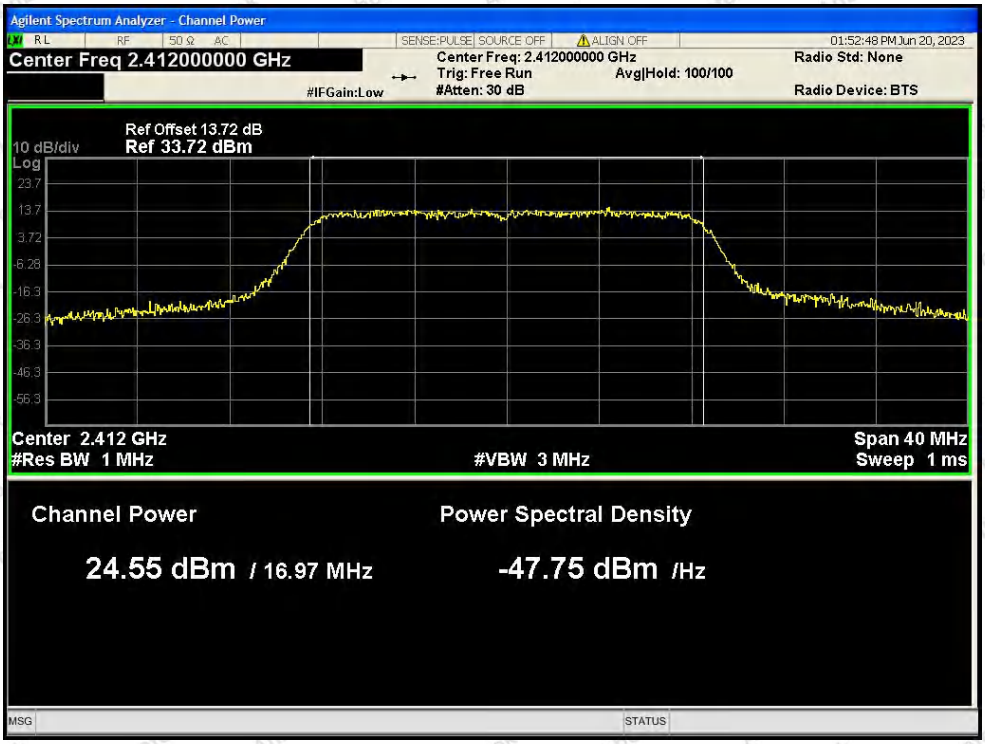
Peak Power NVNT g 2442MHz Ant1



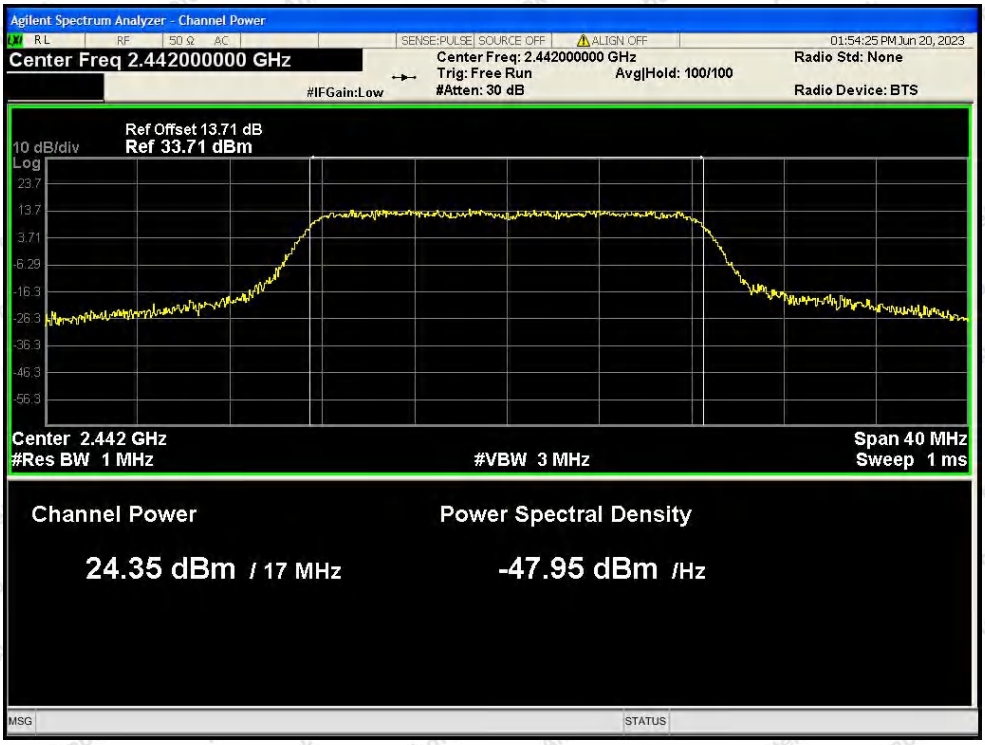
Peak Power NVNT g 2472MHz Ant1



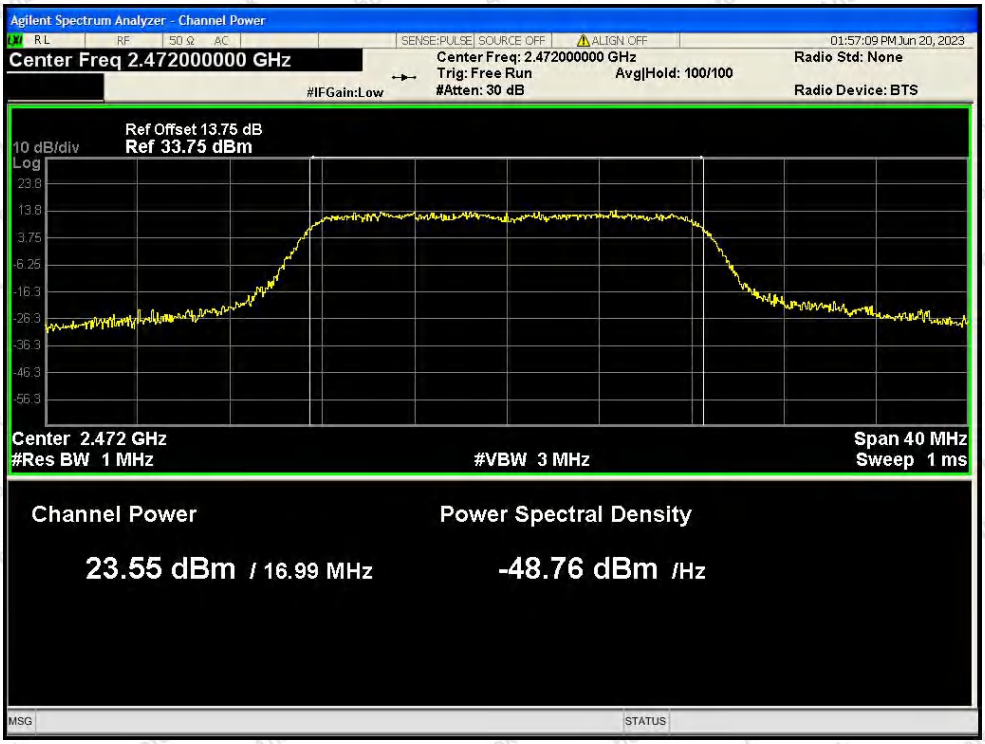
Peak Power NVNT n20 2412MHz Ant1



Peak Power NVNT n20 2442MHz Ant1



Peak Power NVNT n20 2472MHz Ant1

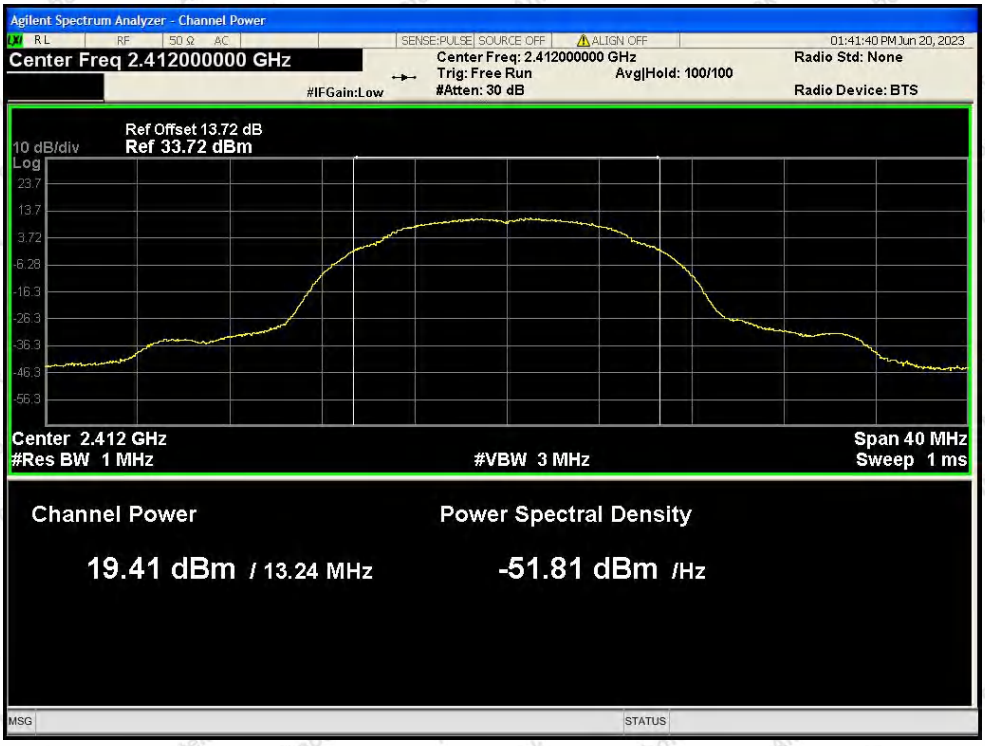


Maximum Average Conducted Output Power

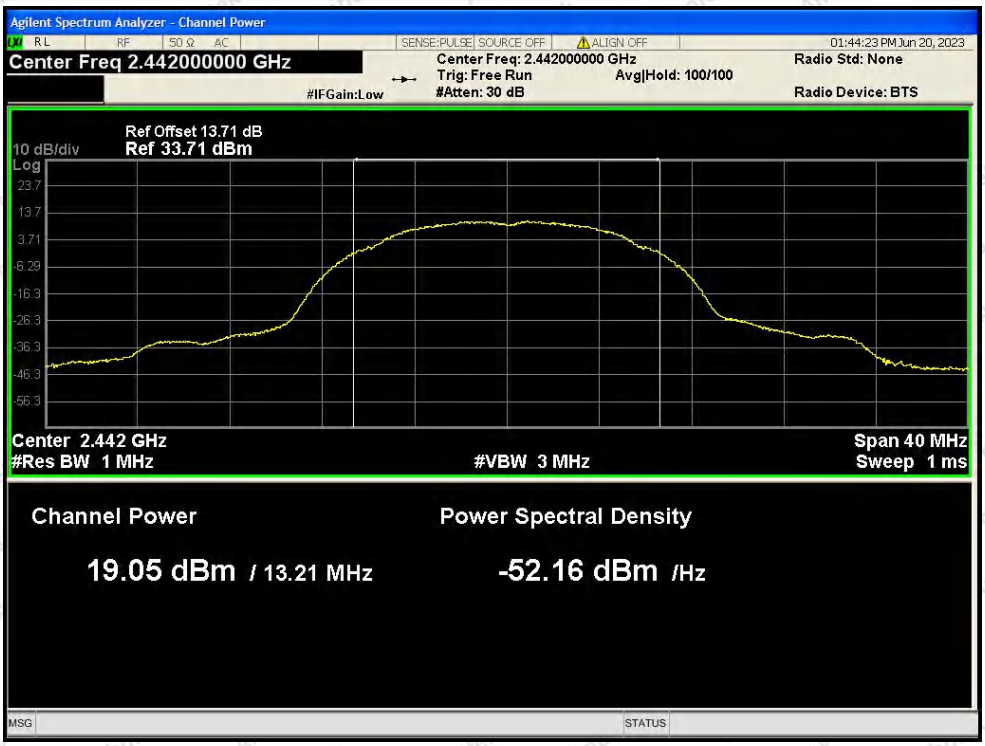
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Conducted Power (dBm)	Total Conducted Power (mW)	Limit Conducted (dBm)	Verdict
NVNT	b	2412	Ant1	19.41	0	19.41	87.3	30	Pass
NVNT	b	2442	Ant1	19.05	0	19.05	80.35	30	Pass
NVNT	b	2472	Ant1	18.35	0	18.35	68.39	30	Pass
NVNT	g	2412	Ant1	17.55	0	17.55	56.89	30	Pass
NVNT	g	2442	Ant1	17.34	0	17.34	54.2	30	Pass
NVNT	g	2472	Ant1	16.5	0	16.5	44.67	30	Pass
NVNT	n20	2412	Ant1	17.38	0	17.38	54.7	30	Pass
NVNT	n20	2442	Ant1	17.19	0	17.19	52.36	30	Pass
NVNT	n20	2472	Ant1	16.39	0	16.39	43.55	30	Pass

Test Graphs

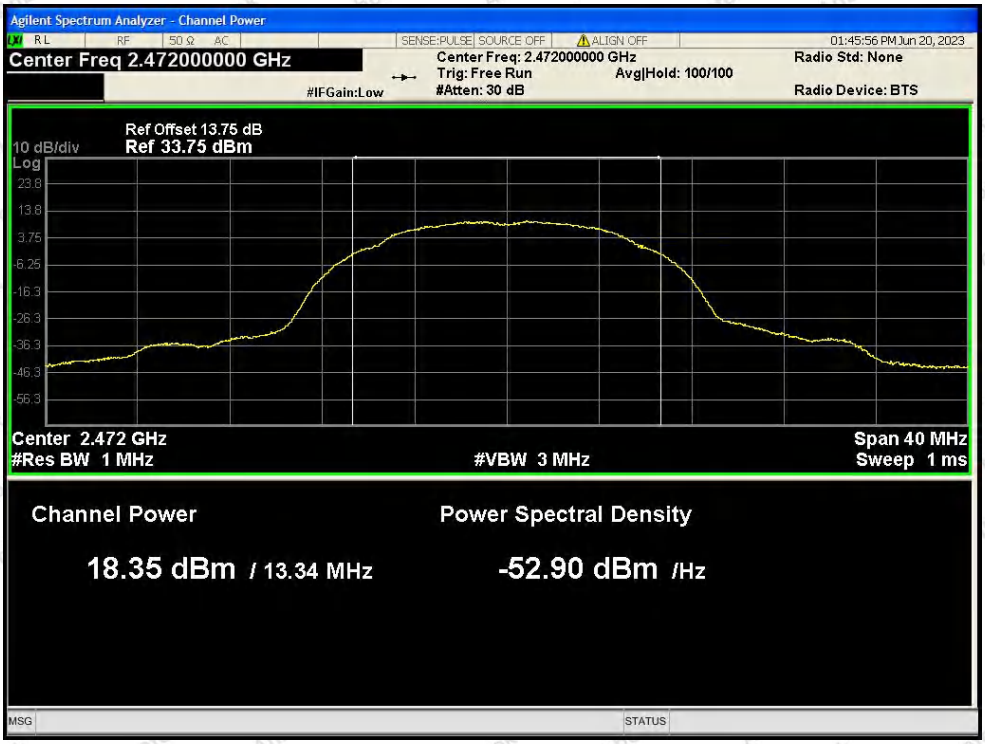
Average Power NVNT b 2412MHz Ant1



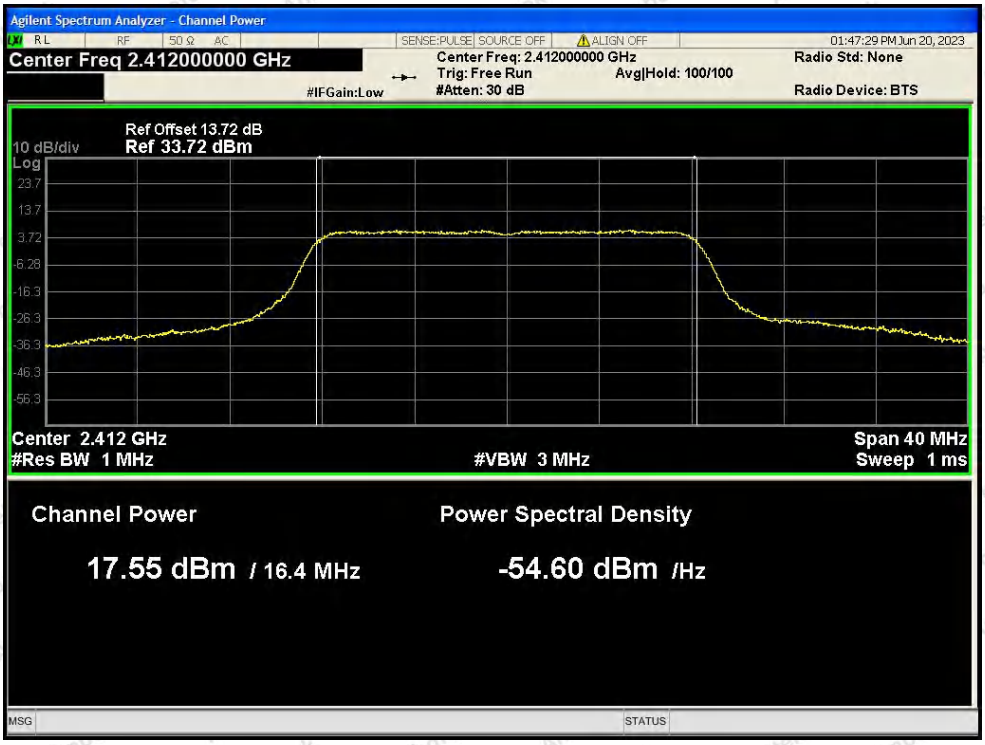
Average Power NVNT b 2442MHz Ant1



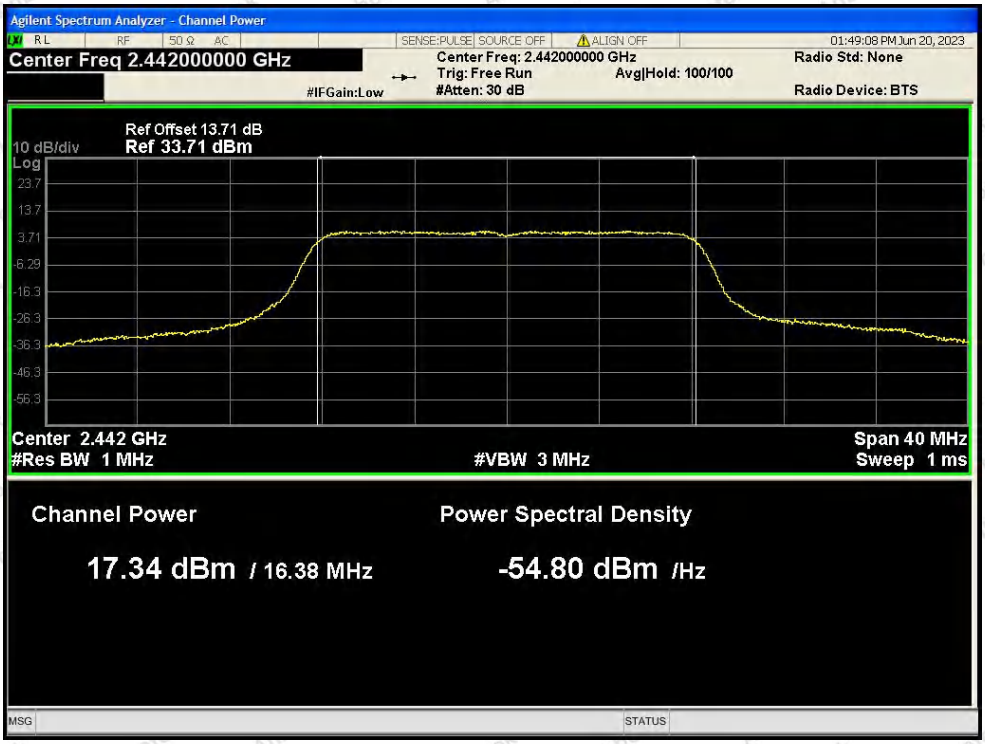
Average Power NVNT b 2472MHz Ant1



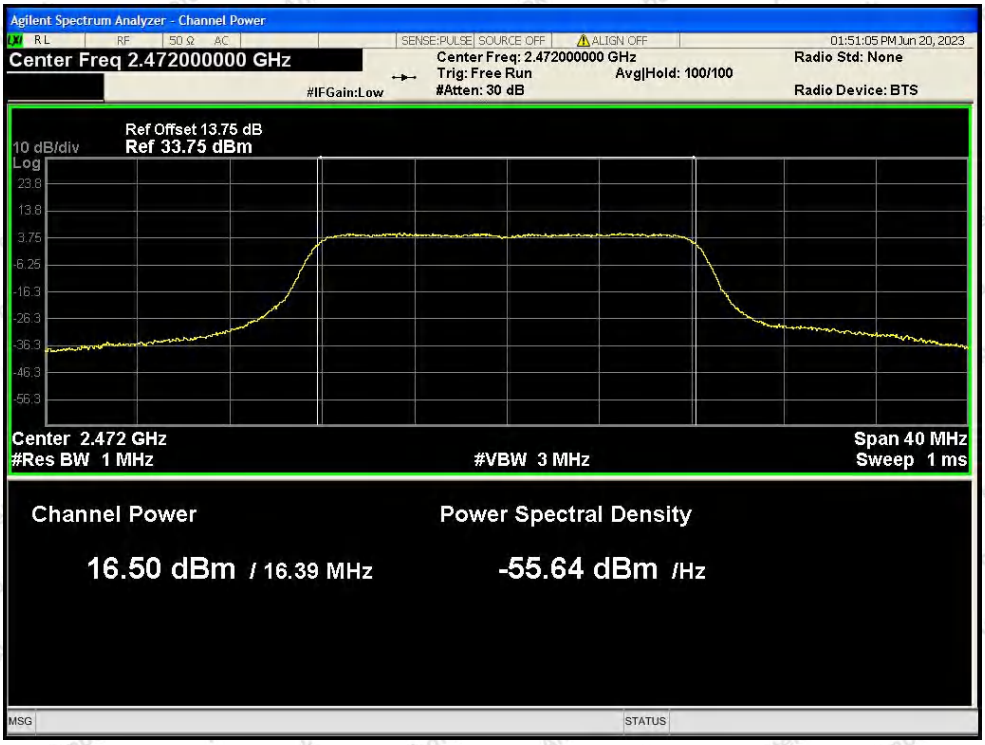
Average Power NVNT g 2412MHz Ant1



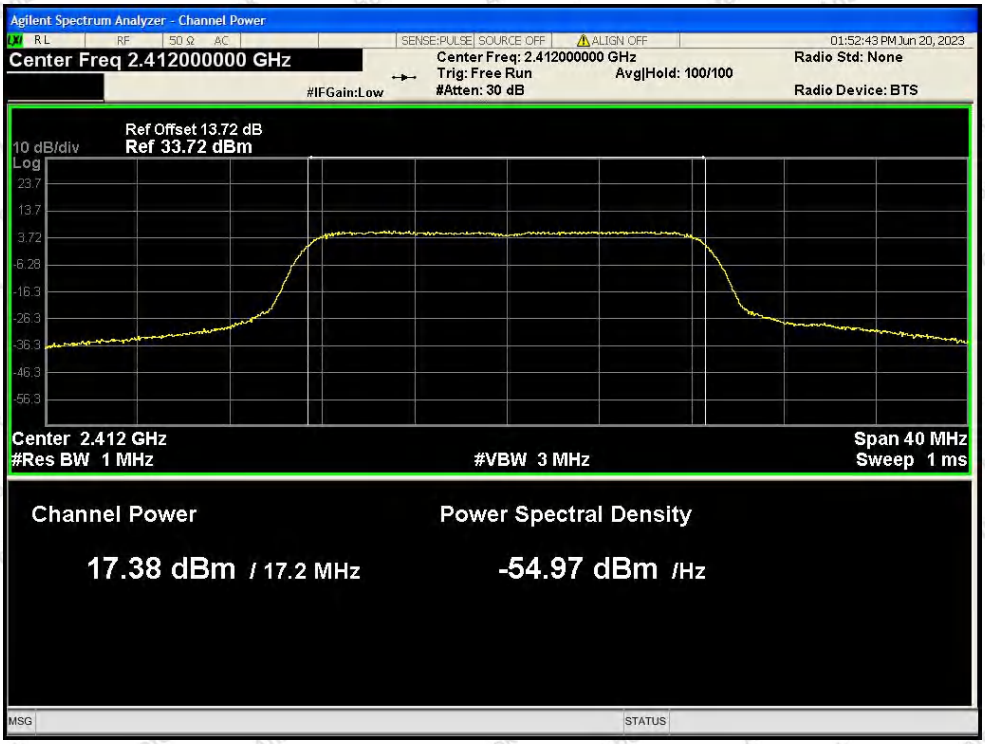
Average Power NVNT g 2442MHz Ant1



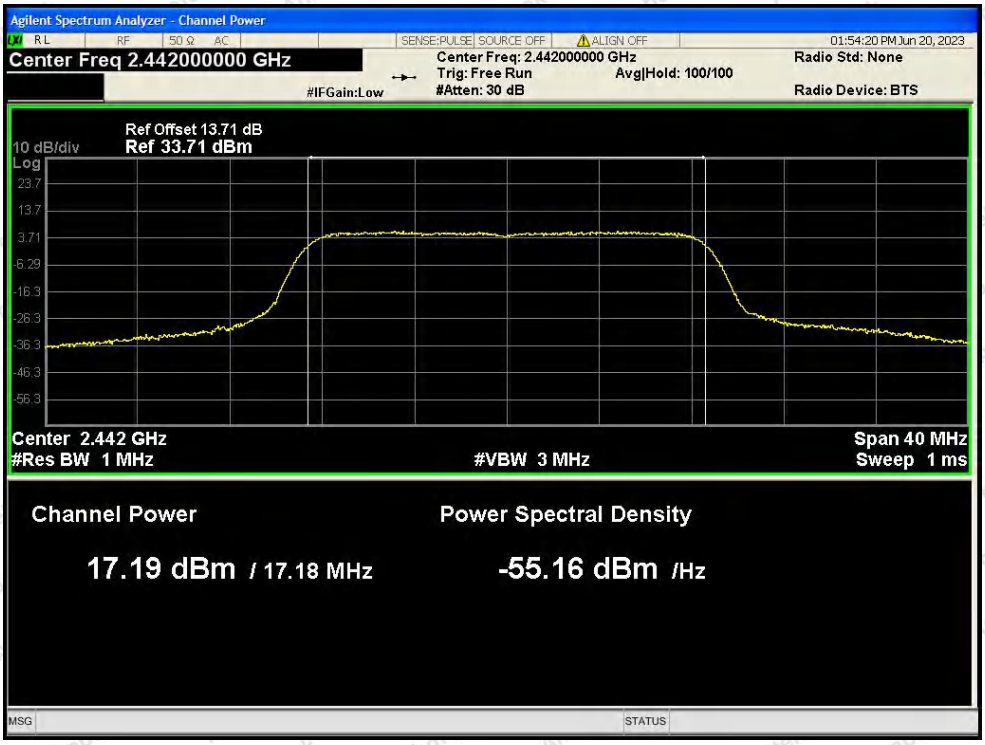
Average Power NVNT g 2472MHz Ant1



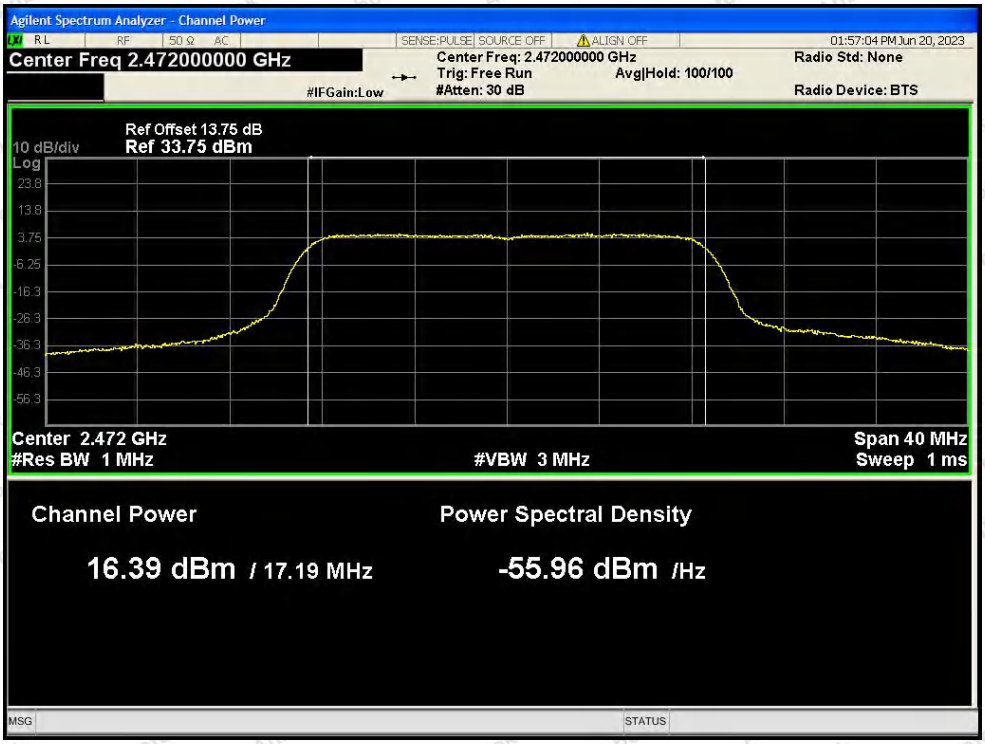
Average Power NVNT n20 2412MHz Ant1



Average Power NVNT n20 2442MHz Ant1



Average Power NVNT n20 2472MHz Ant1

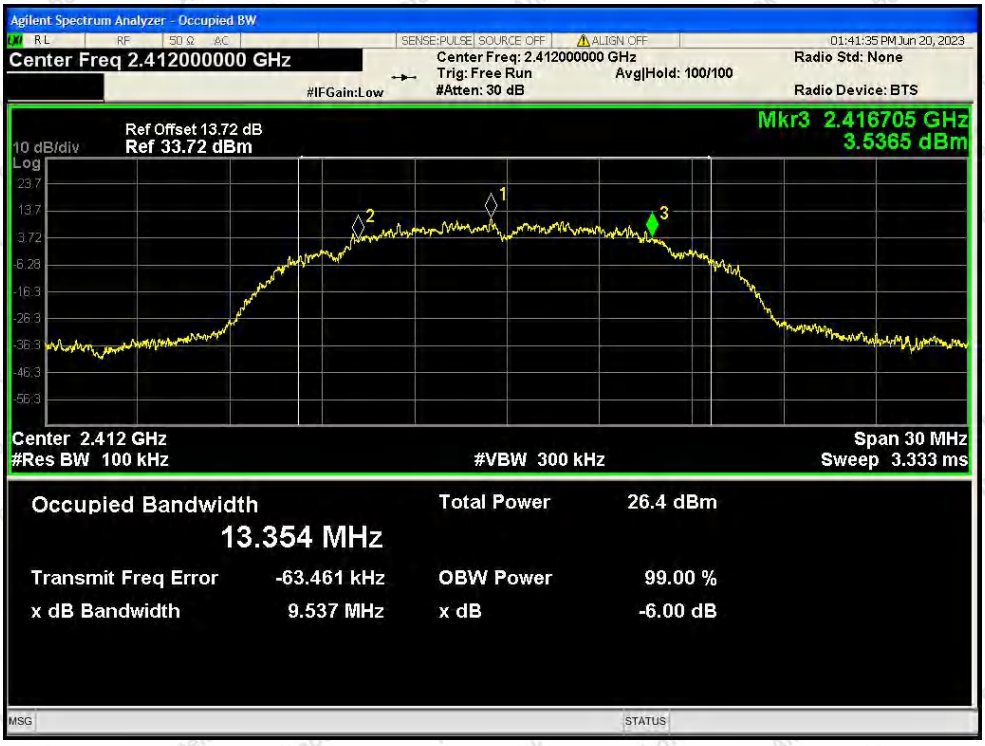


6 dB Bandwidth

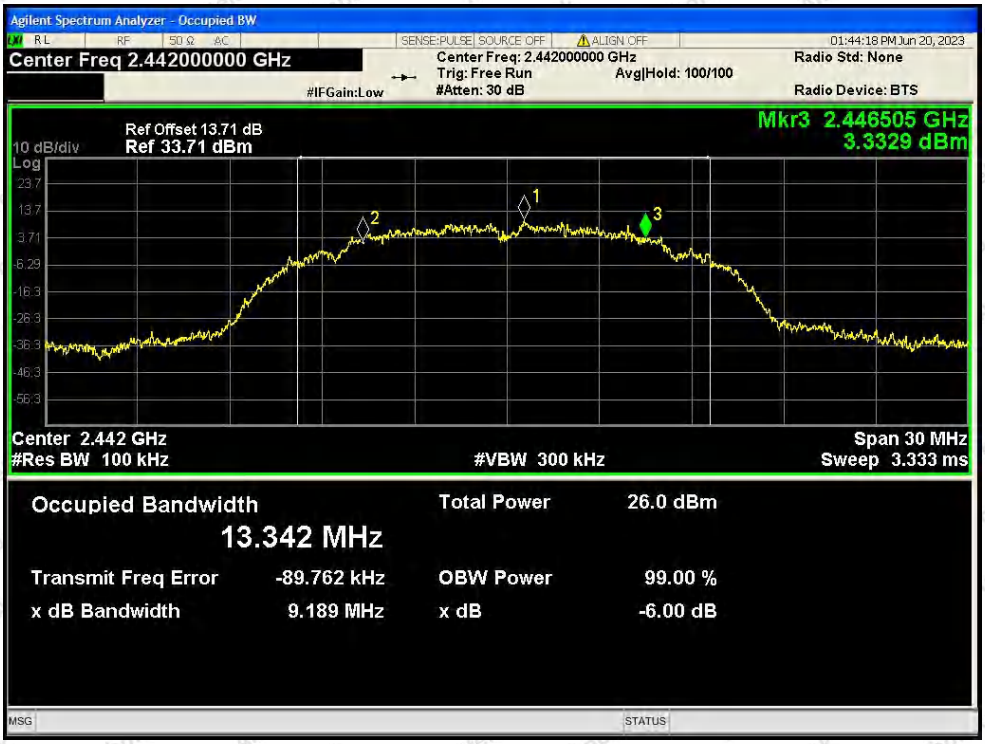
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	9.537	0.5	Pass
NVNT	b	2442	Ant1	9.189	0.5	Pass
NVNT	b	2472	Ant1	9.576	0.5	Pass
NVNT	g	2412	Ant1	16.334	0.5	Pass
NVNT	g	2442	Ant1	16.358	0.5	Pass
NVNT	g	2472	Ant1	16.358	0.5	Pass
NVNT	n20	2412	Ant1	16.967	0.5	Pass
NVNT	n20	2442	Ant1	16.996	0.5	Pass
NVNT	n20	2472	Ant1	16.994	0.5	Pass

Test Graphs

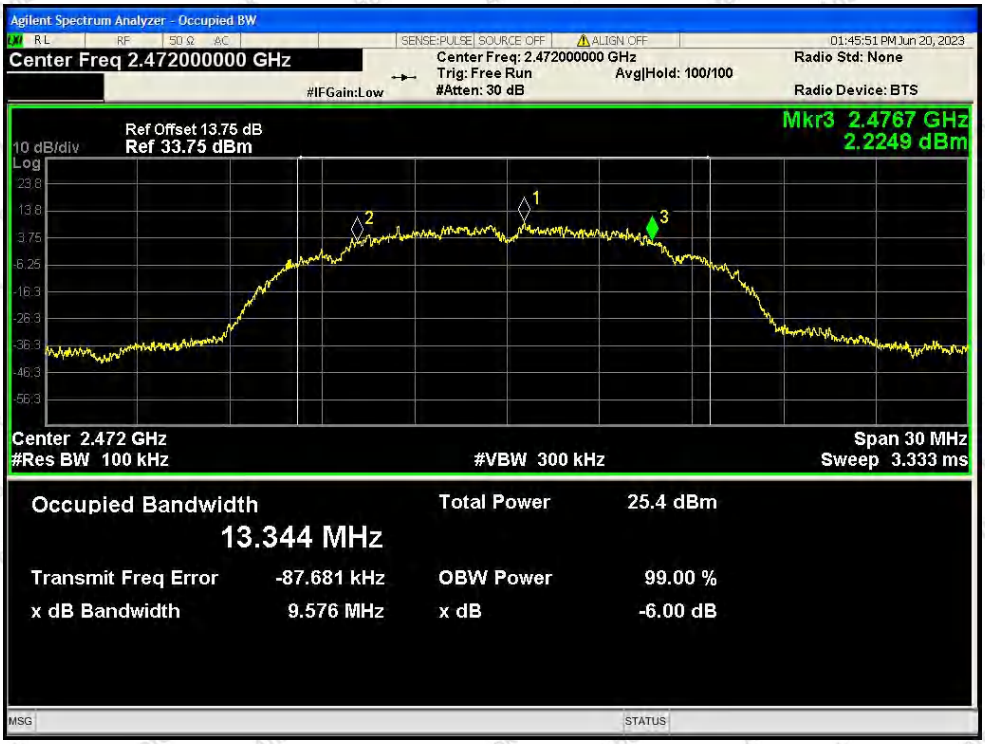
-6dB Bandwidth NVNT b 2412MHz Ant1



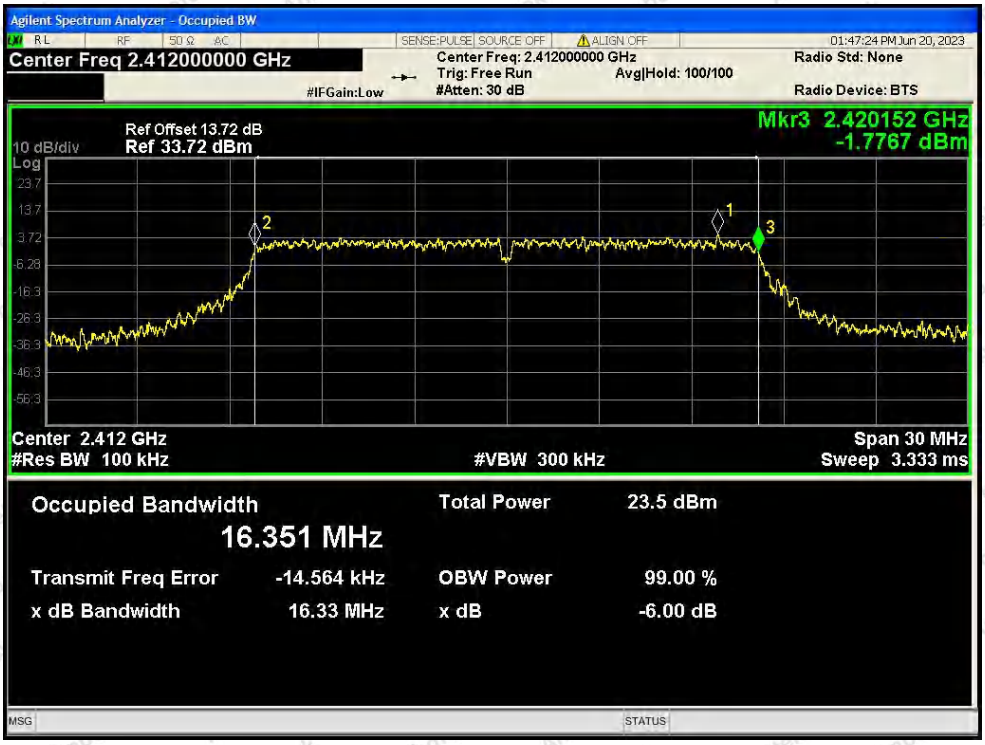
-6dB Bandwidth NVNT b 2442MHz Ant1



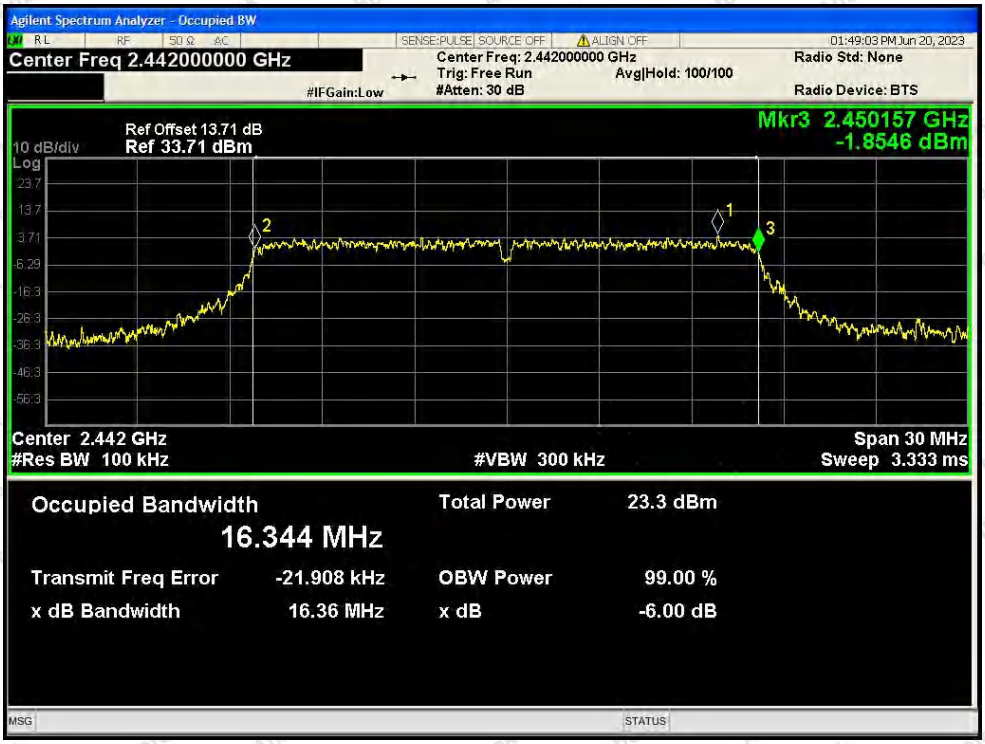
-6dB Bandwidth NVNT b 2472MHz Ant1



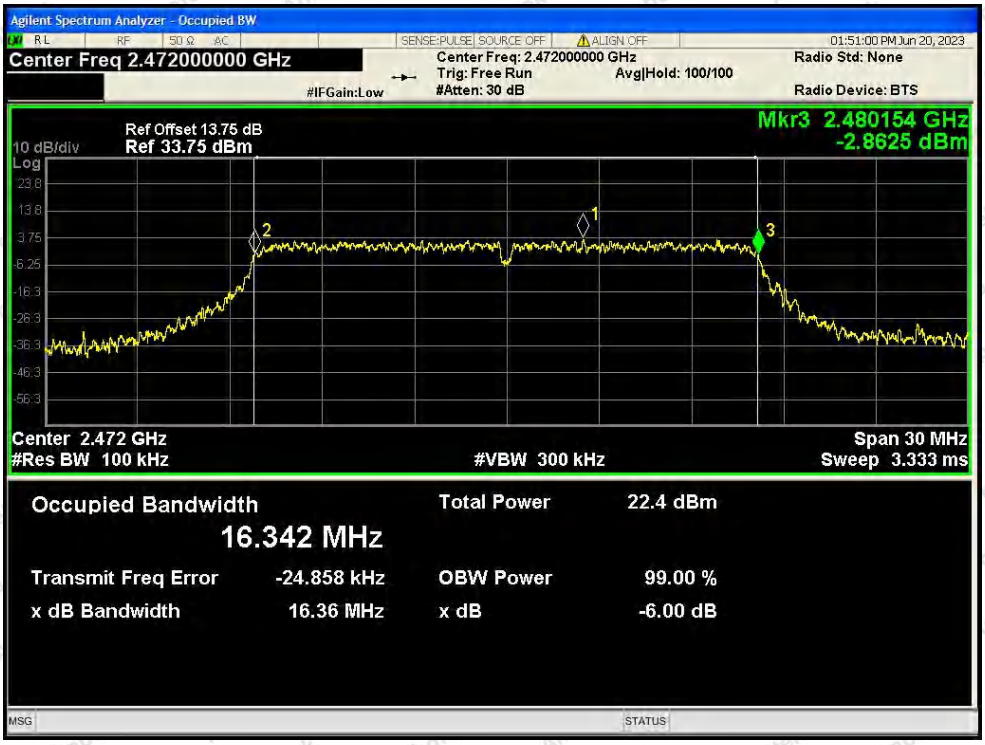
-6dB Bandwidth NVNT g 2412MHz Ant1



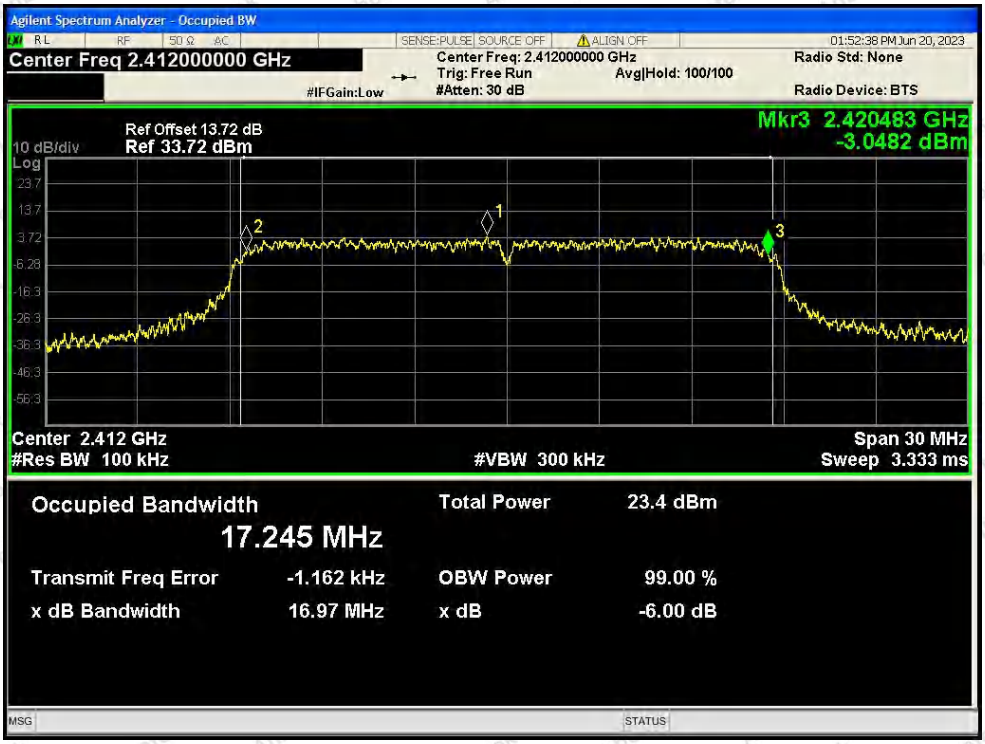
-6dB Bandwidth NVNT g 2442MHz Ant1



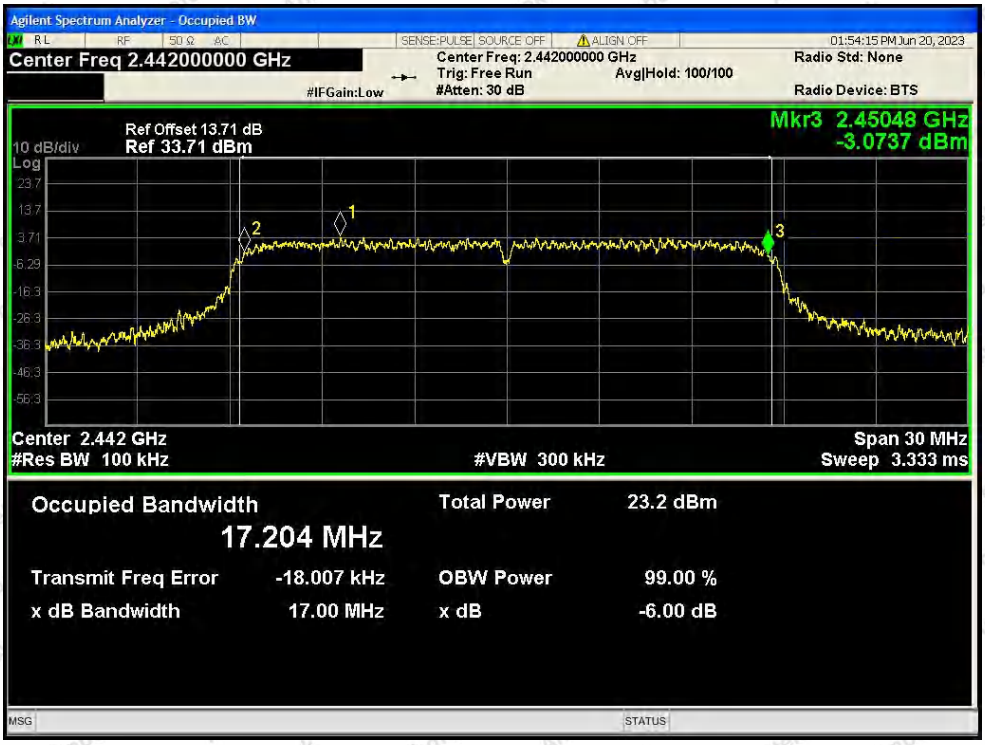
-6dB Bandwidth NVNT g 2472MHz Ant1



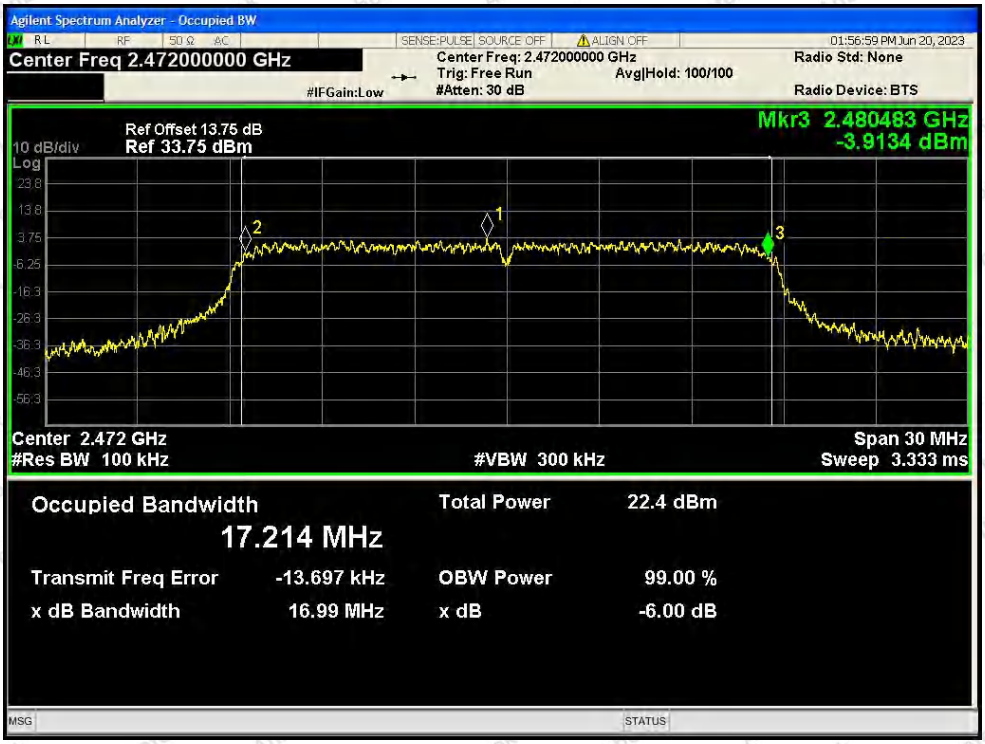
-6dB Bandwidth NVNT n20 2412MHz Ant1



-6dB Bandwidth NVNT n20 2442MHz Ant1



-6dB Bandwidth NVNT n20 2472MHz Ant1



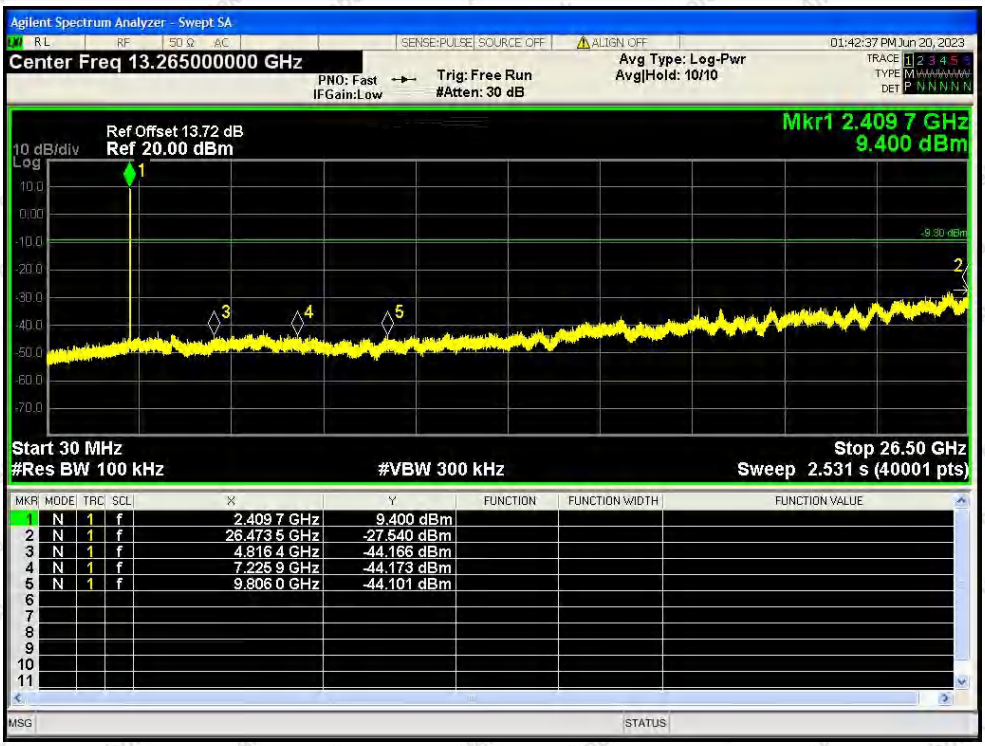
Conducted Spurious Emissions

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-38.23	-20	Pass
NVNT	b	2442	Ant1	-38.01	-20	Pass
NVNT	b	2472	Ant1	-38.14	-20	Pass
NVNT	g	2412	Ant1	-33.09	-20	Pass
NVNT	g	2442	Ant1	-31.55	-20	Pass
NVNT	g	2472	Ant1	-32.4	-20	Pass
NVNT	n20	2412	Ant1	-32.09	-20	Pass
NVNT	n20	2442	Ant1	-31.95	-20	Pass
NVNT	n20	2472	Ant1	-31.7	-20	Pass

Test Graphs

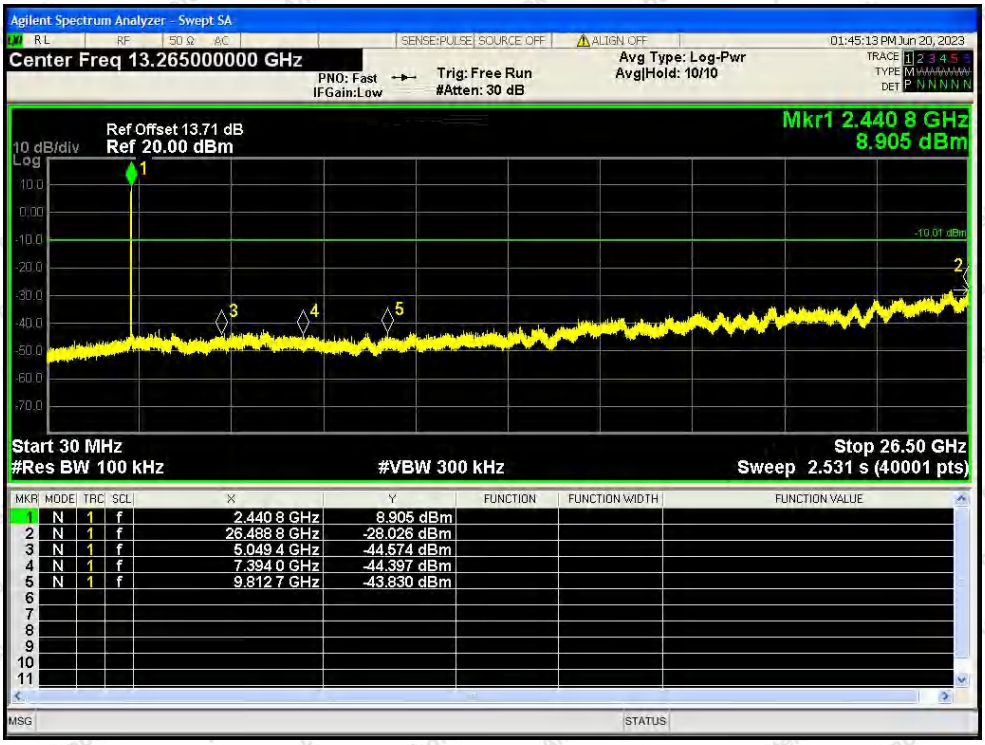
Tx. Spurious NVNT b 2412MHz Ant1 Ref

Tx. Spurious NVNT b 2412MHz Ant1 Emission



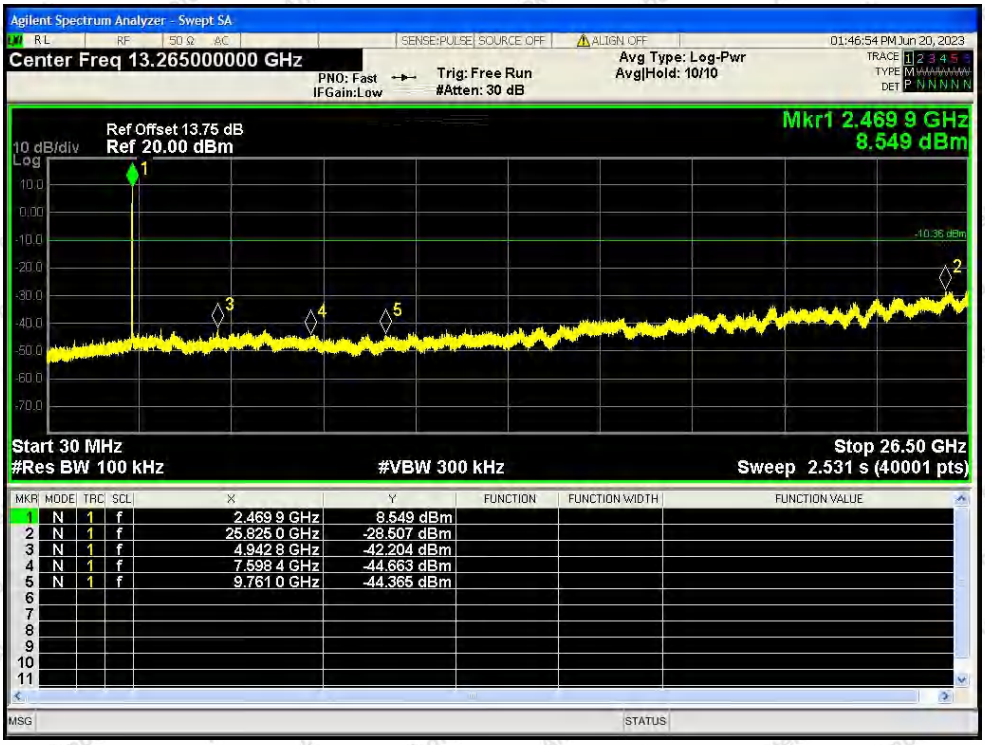
Tx. Spurious NVNT b 2442MHz Ant1 Ref

Tx. Spurious NVNT b 2442MHz Ant1 Emission



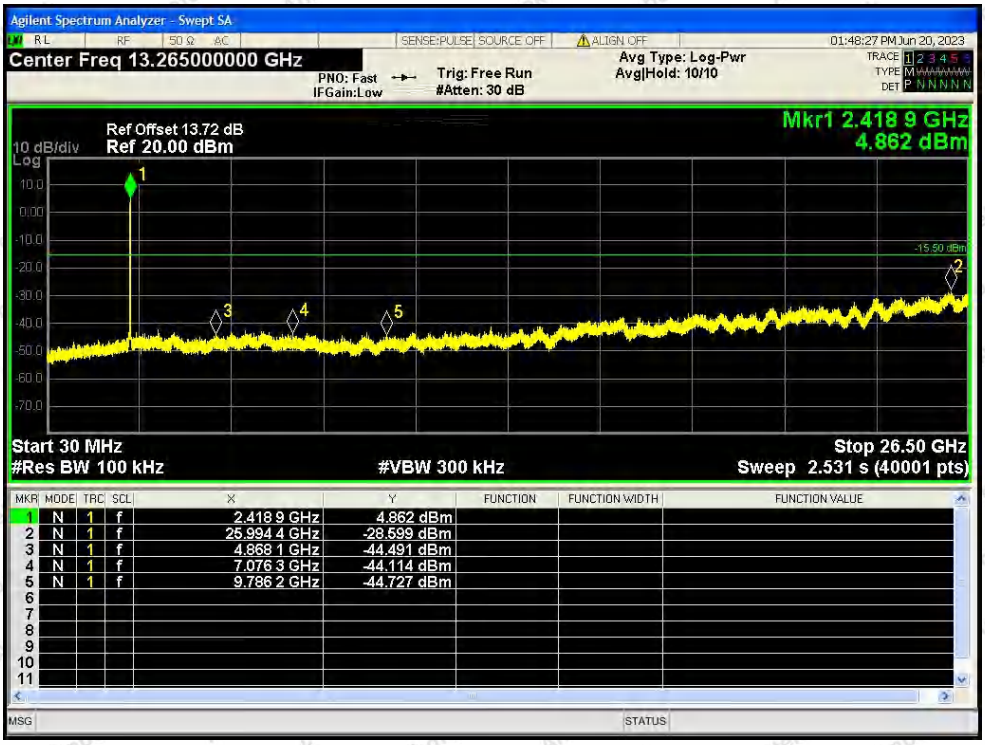
Tx. Spurious NVNT b 2472MHz Ant1 Ref

Tx. Spurious NVNT b 2472MHz Ant1 Emission



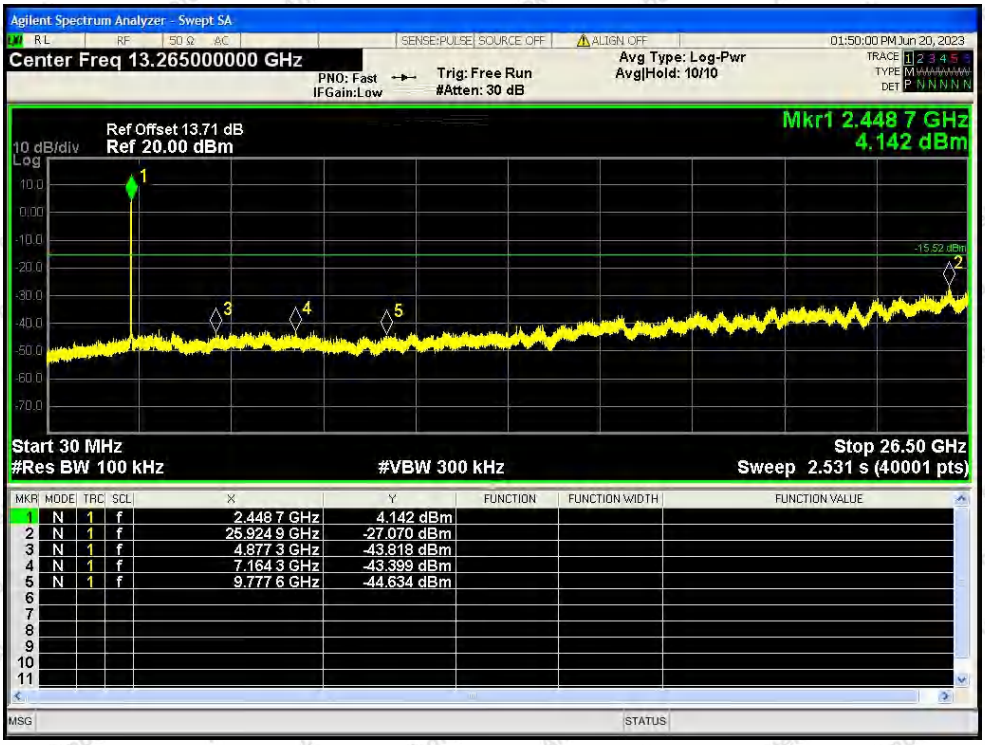
Tx. Spurious NVNT g 2412MHz Ant1 Ref

Tx. Spurious NVNT g 2412MHz Ant1 Emission

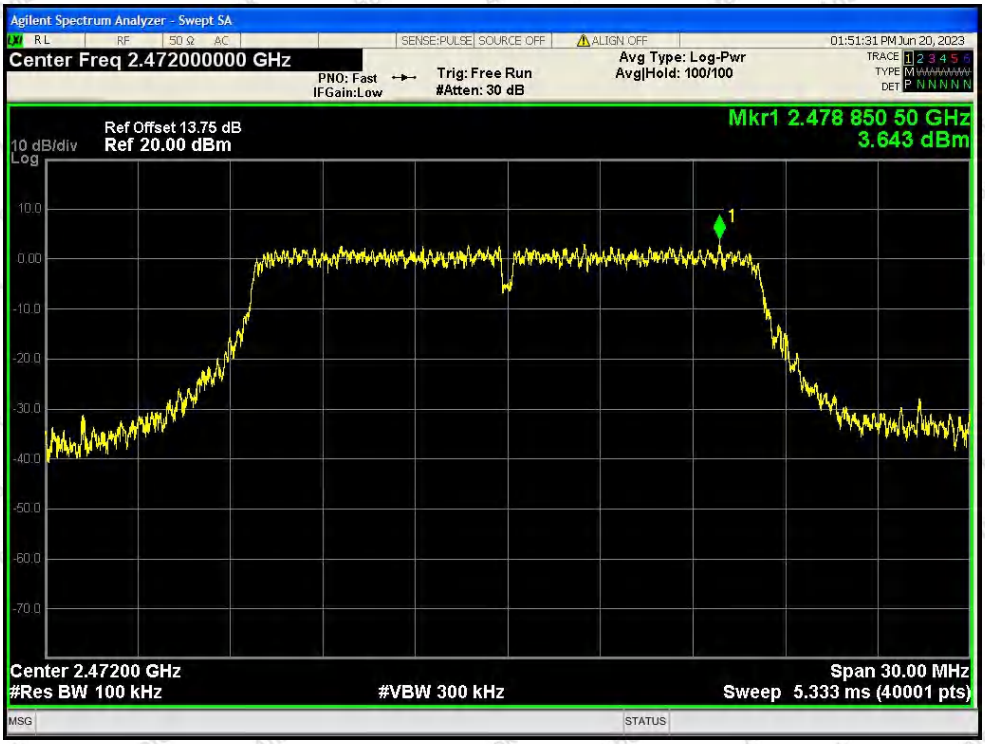


Tx. Spurious NVNT g 2442MHz Ant1 Ref

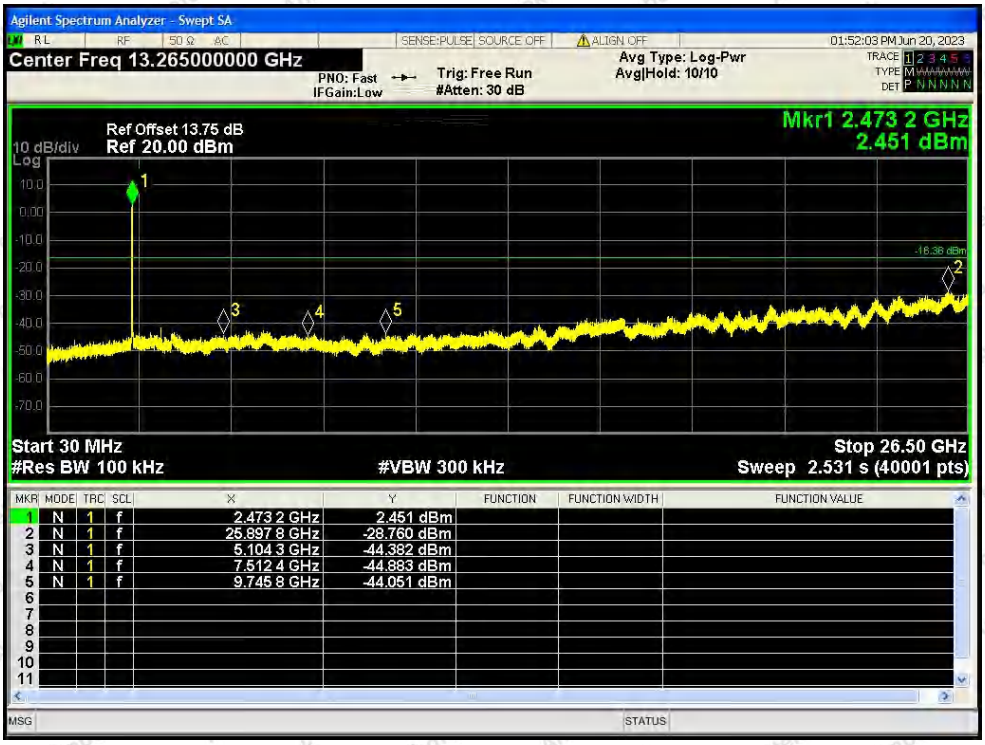
Tx. Spurious NVNT g 2442MHz Ant1 Emission



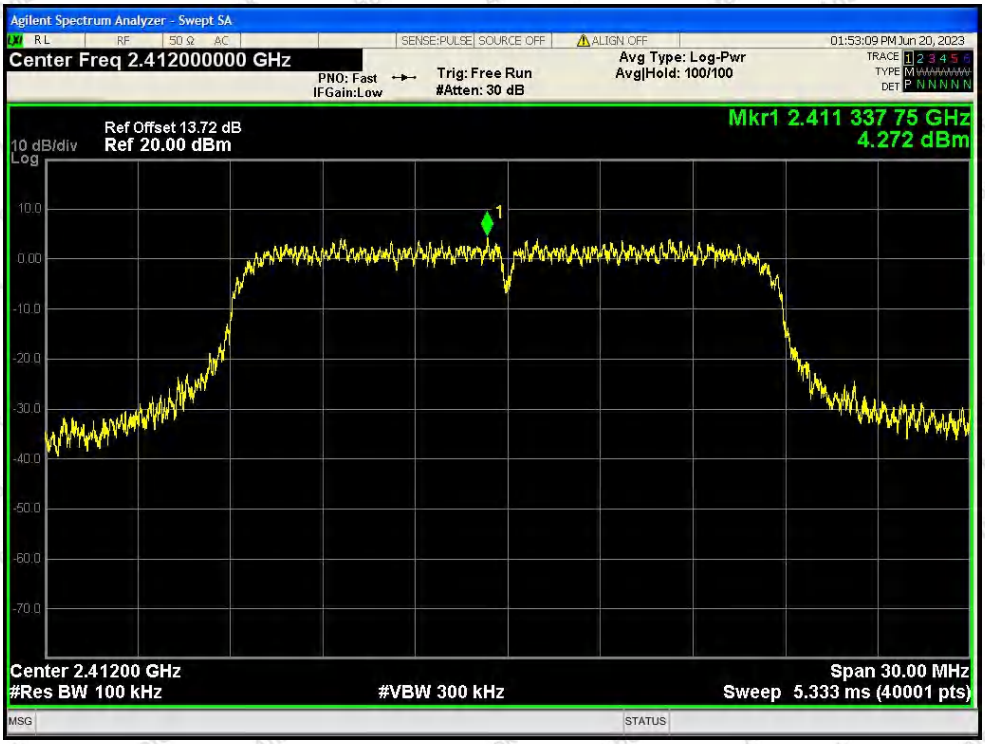
Tx. Spurious NVNT g 2472MHz Ant1 Ref



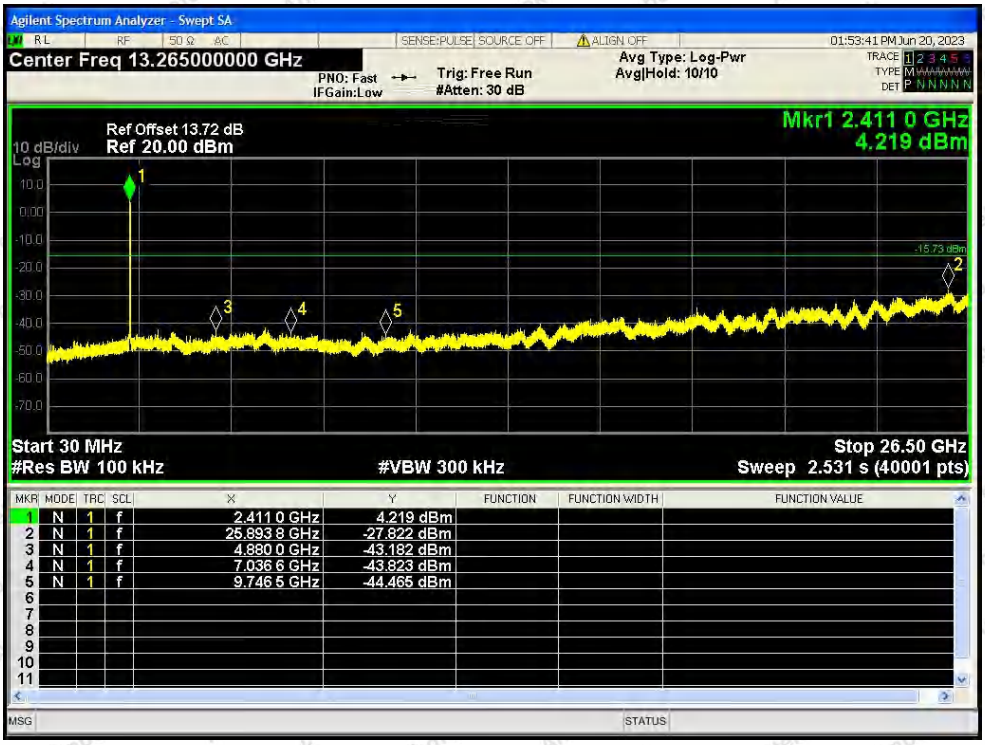
Tx. Spurious NVNT g 2472MHz Ant1 Emission



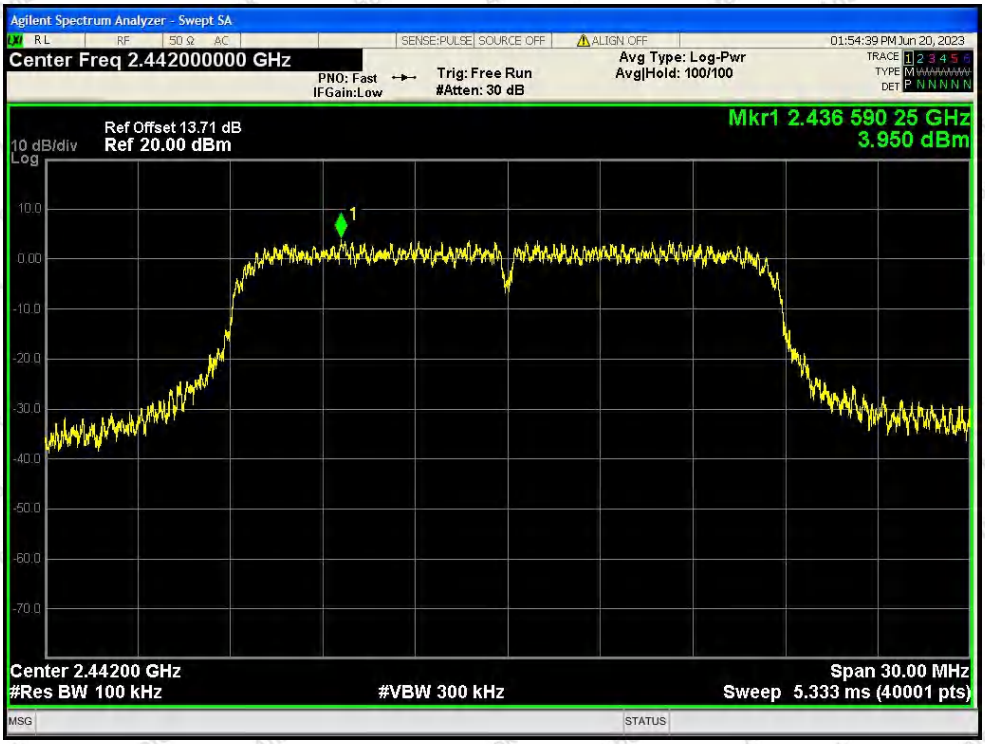
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



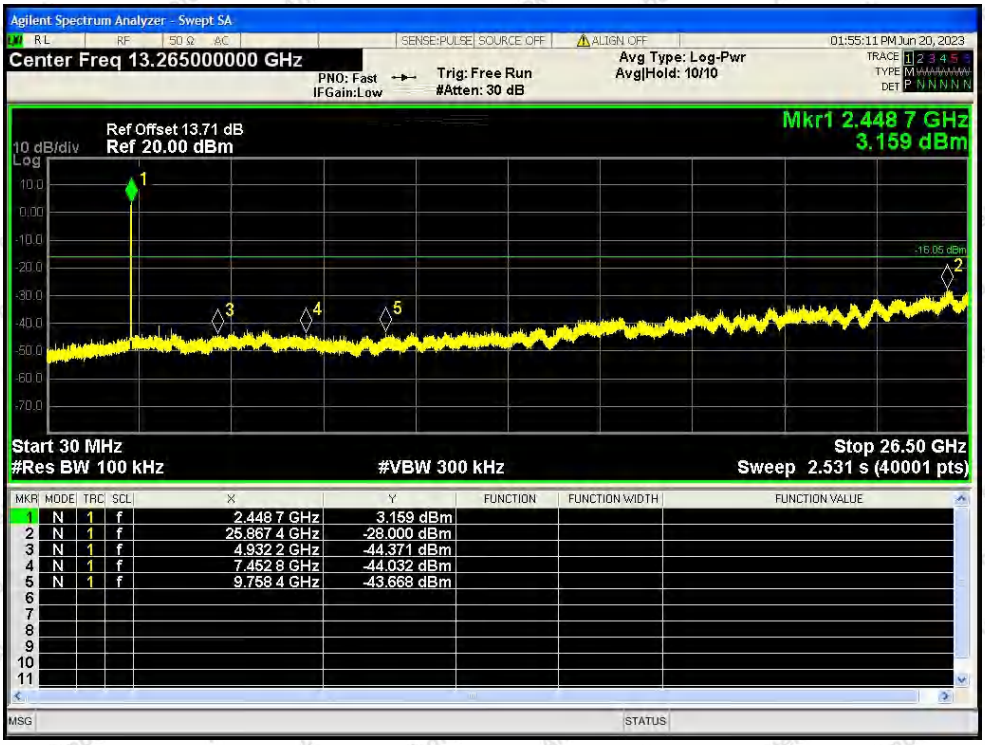
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



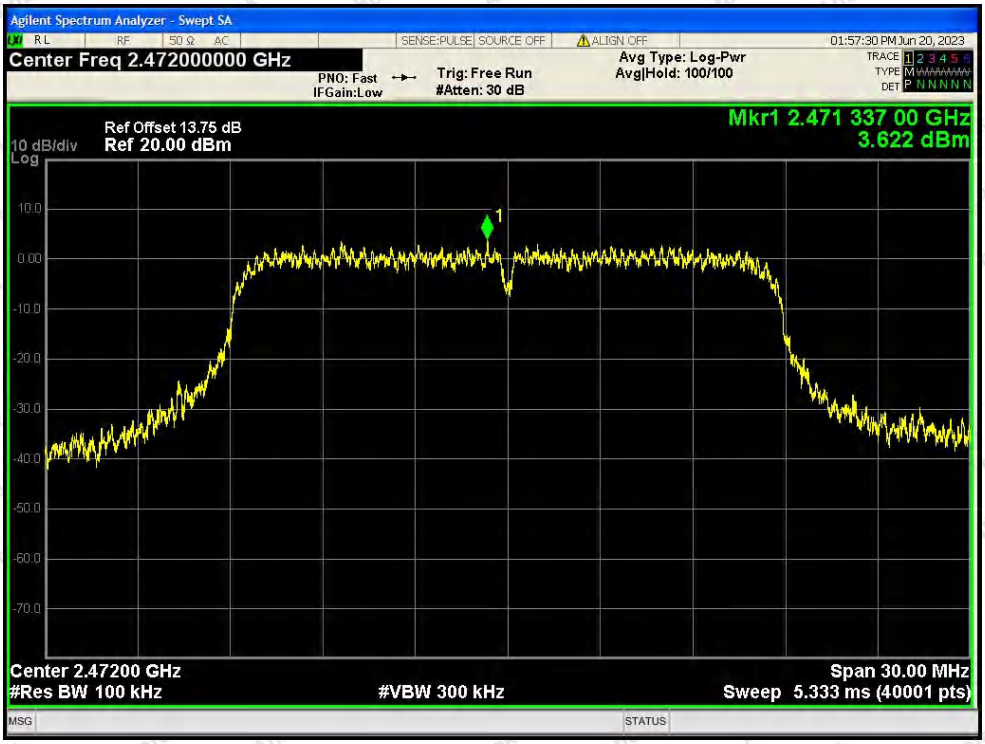
Tx. Spurious NVNT n20 2442MHz Ant1 Ref



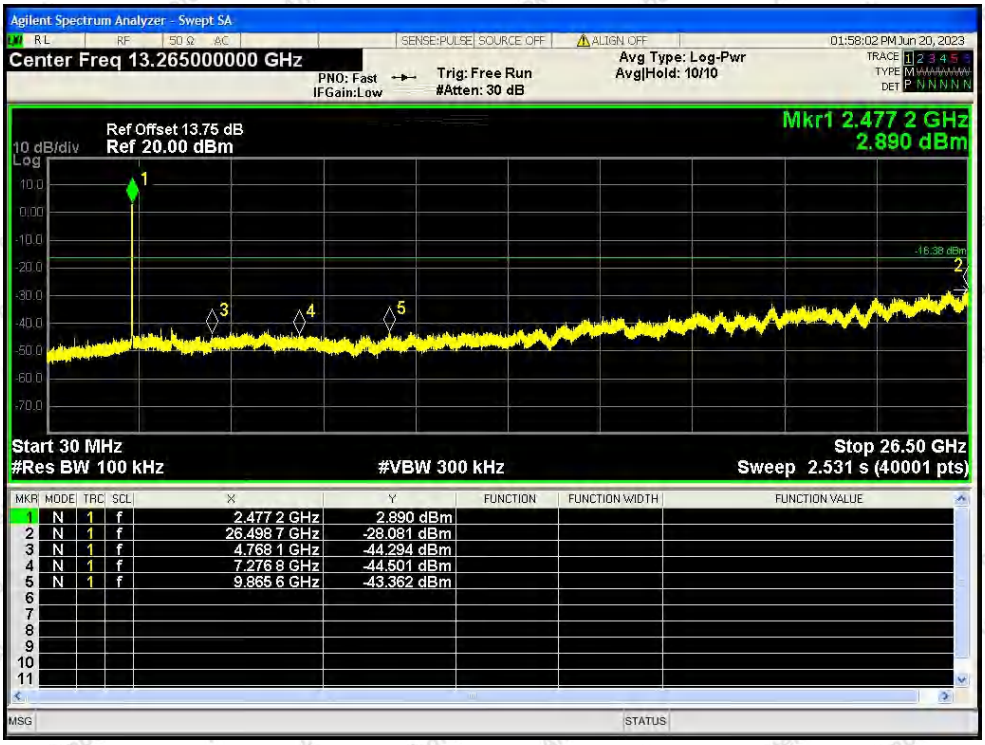
Tx. Spurious NVNT n20 2442MHz Ant1 Emission



Tx. Spurious NVNT n20 2472MHz Ant1 Ref



Tx. Spurious NVNT n20 2472MHz Ant1 Emission



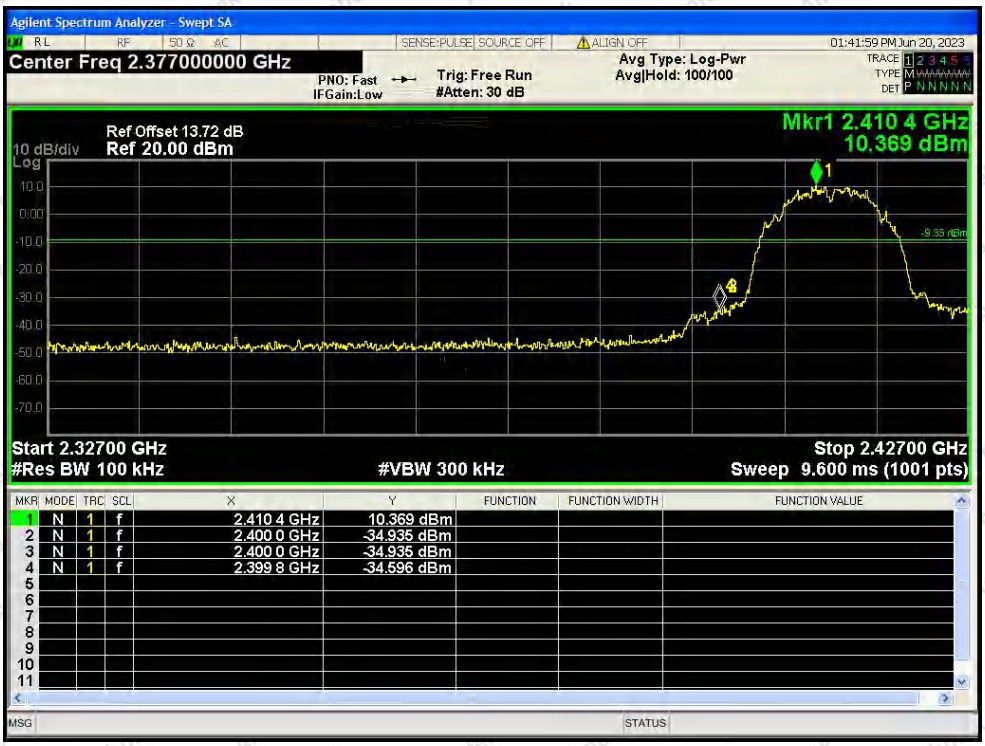
Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-45.24	-20	Pass
NVNT	b	2472	Ant1	-42.38	-20	Pass
NVNT	g	2412	Ant1	-31.92	-20	Pass
NVNT	g	2472	Ant1	-31.18	-20	Pass
NVNT	n20	2412	Ant1	-34.99	-20	Pass
NVNT	n20	2472	Ant1	-32.63	-20	Pass

Test Graphs

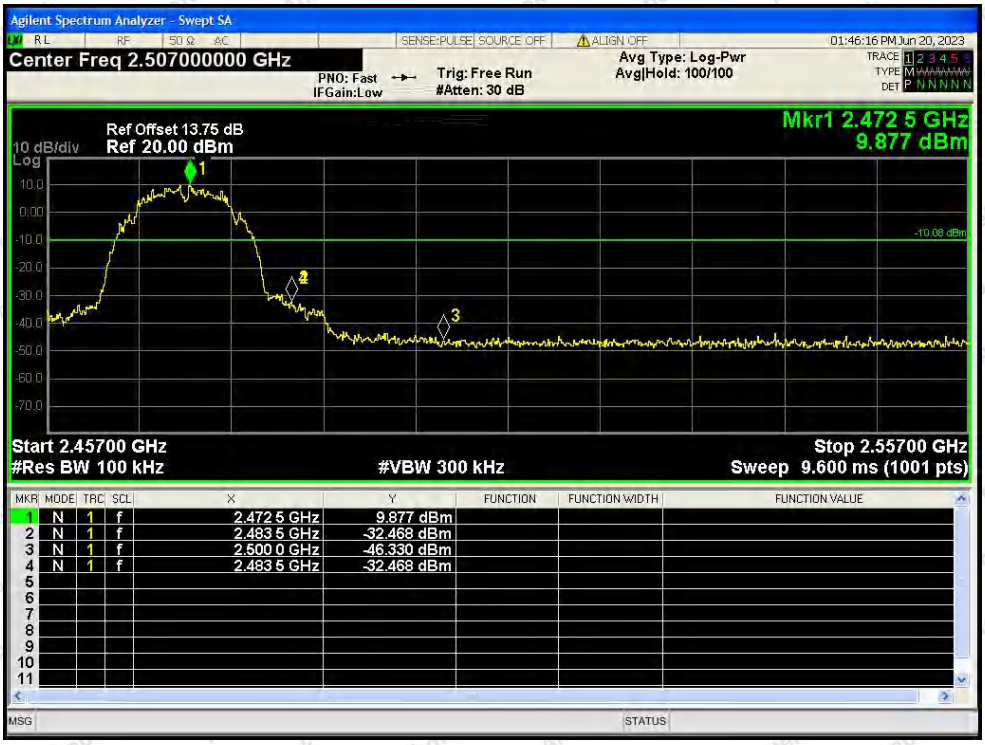
Band Edge NVNT b 2412MHz Ant1 Ref

Band Edge NVNT b 2412MHz Ant1 Emission

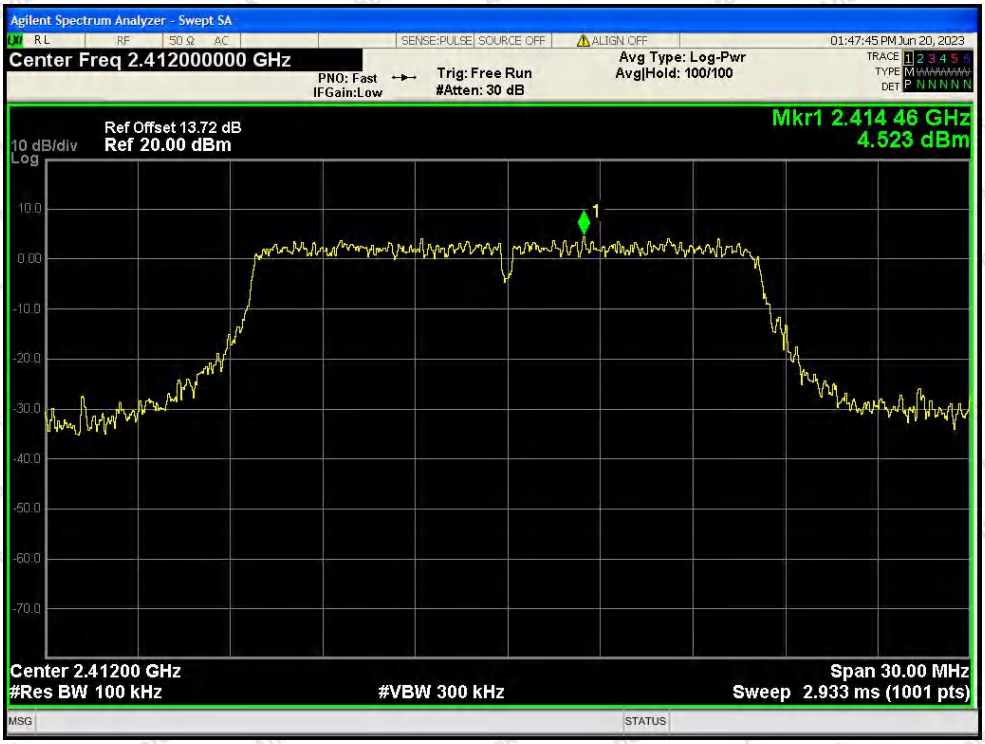


Band Edge NVNT b 2472MHz Ant1 Ref

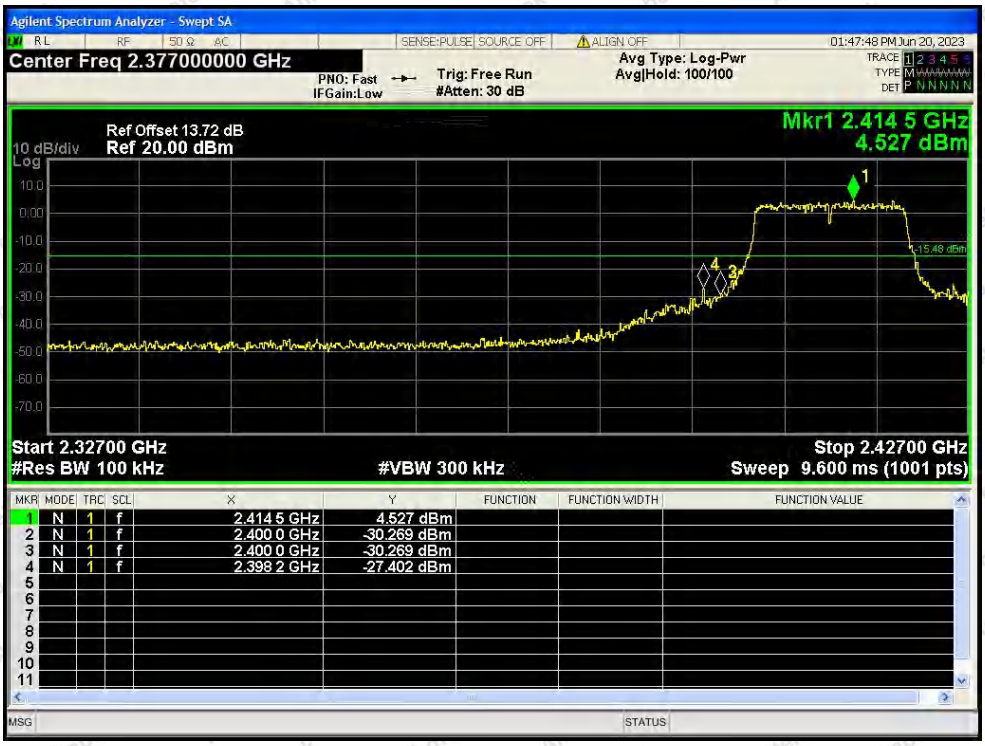
Band Edge NVNT b 2472MHz Ant1 Emission



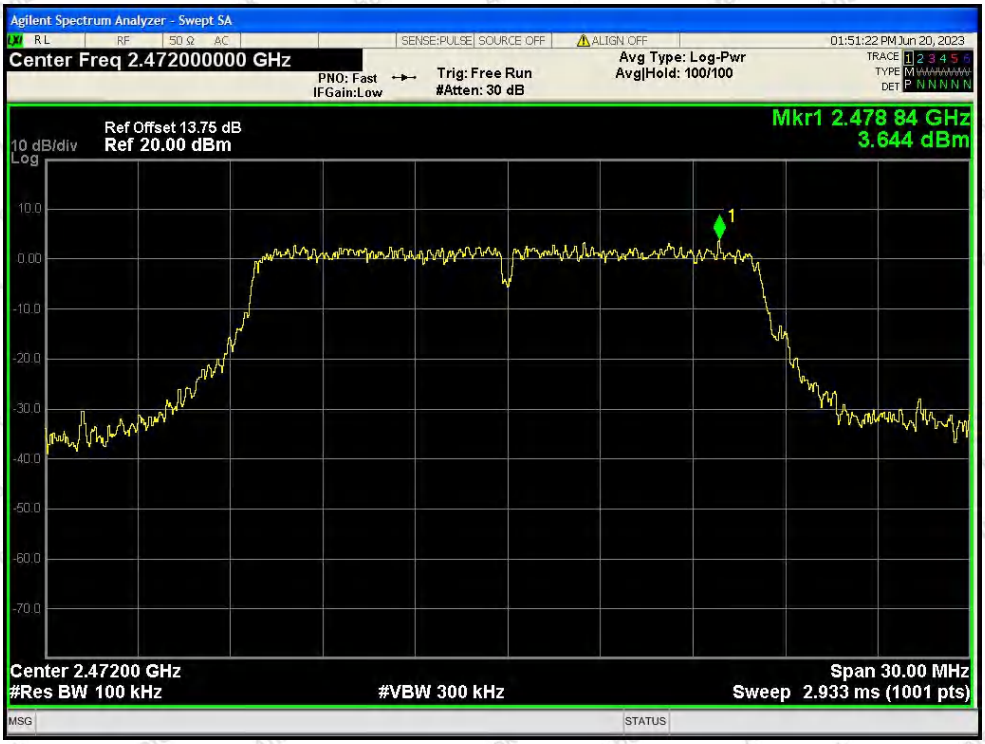
Band Edge NVNT g 2412MHz Ant1 Ref



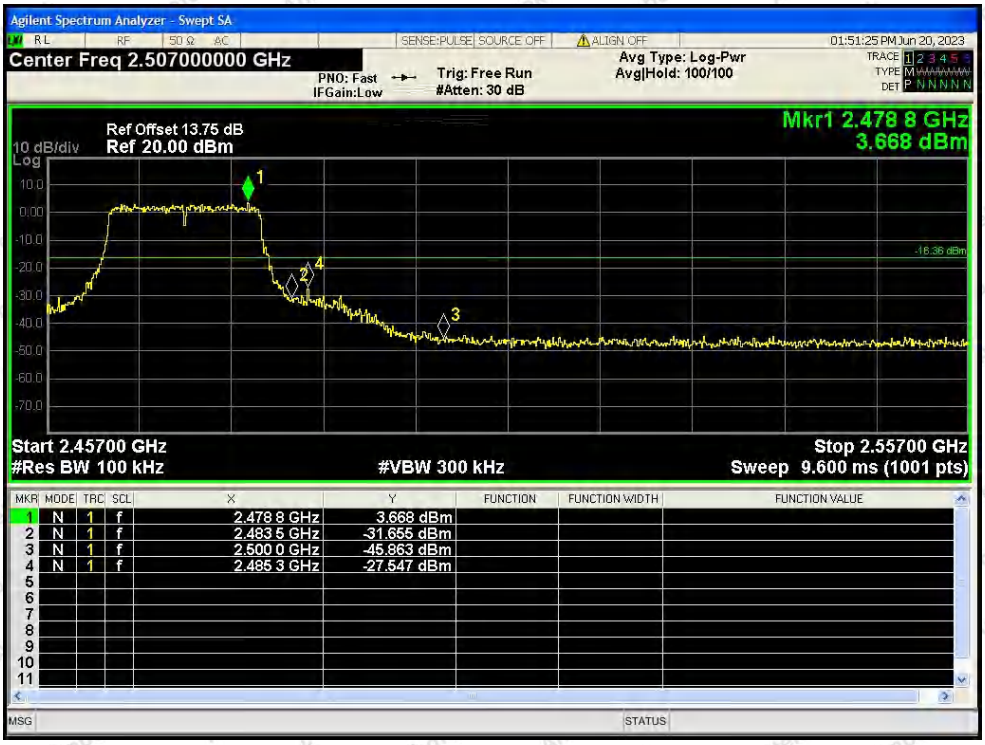
Band Edge NVNT g 2412MHz Ant1 Emission



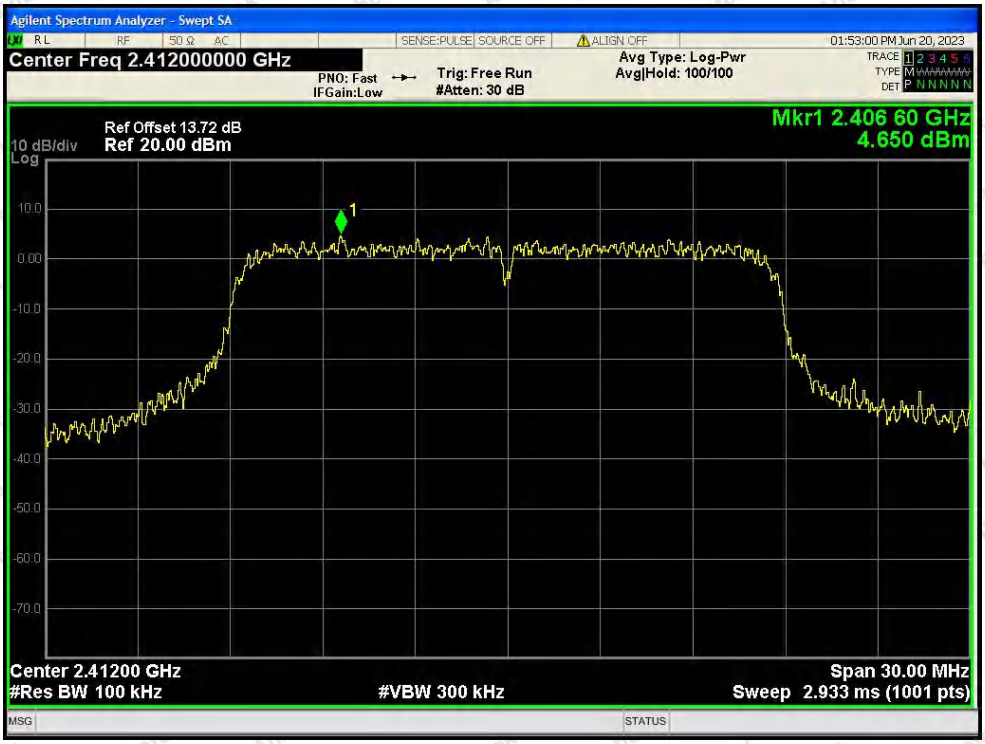
Band Edge NVNT g 2472MHz Ant1 Ref



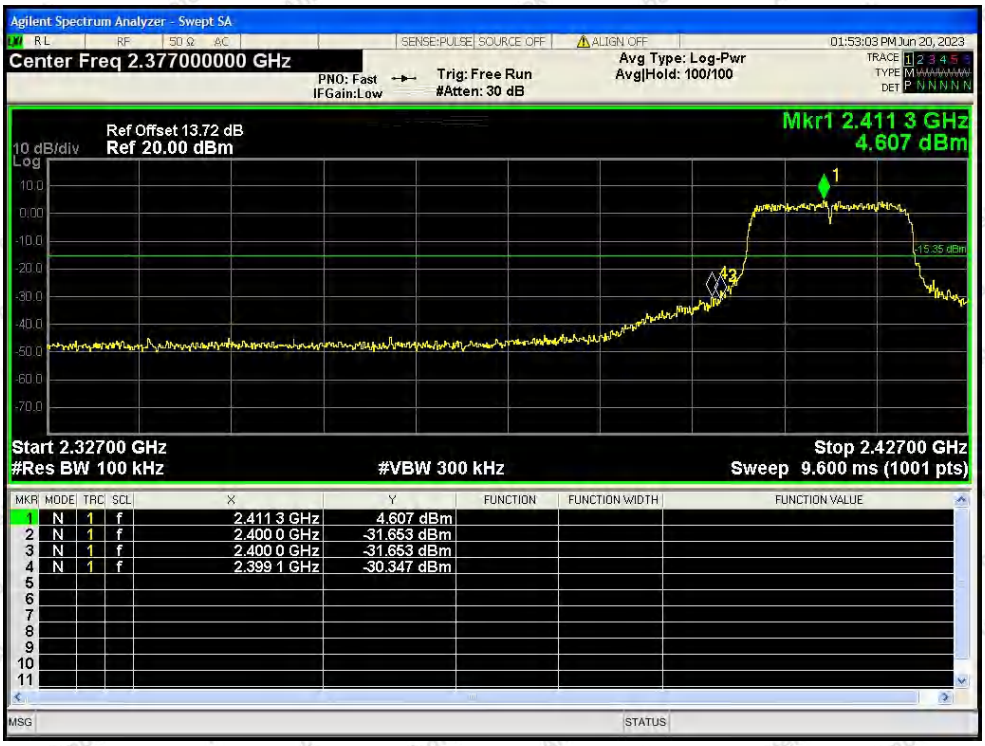
Band Edge NVNT g 2472MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant1 Ref

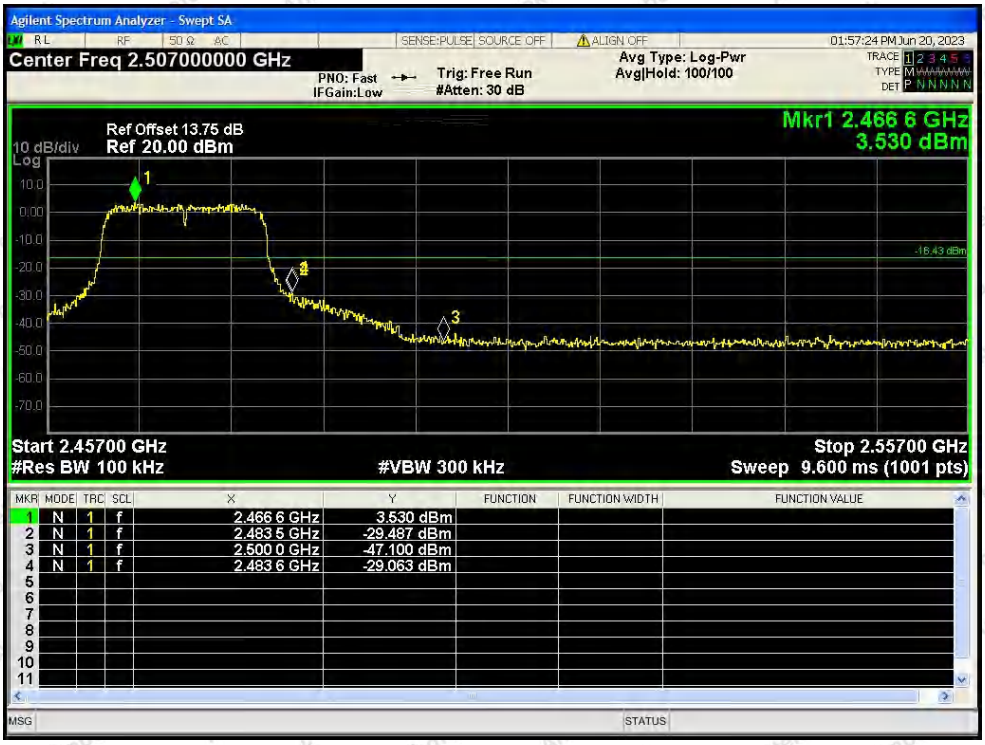


Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2472MHz Ant1 Ref

Band Edge NVNT n20 2472MHz Ant1 Emission



Power Spectral Density

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.76	0	-4.76	8	Pass
NVNT	b	2442	Ant1	-5.46	0	-5.46	8	Pass
NVNT	b	2472	Ant1	-6.12	0	-6.12	8	Pass
NVNT	g	2412	Ant1	-8.86	0	-8.86	8	Pass
NVNT	g	2442	Ant1	-9.06	0	-9.06	8	Pass
NVNT	g	2472	Ant1	-9.92	0	-9.92	8	Pass
NVNT	n20	2412	Ant1	-9.04	0	-9.04	8	Pass
NVNT	n20	2442	Ant1	-9.61	0	-9.61	8	Pass
NVNT	n20	2472	Ant1	-10.15	0	-10.15	8	Pass

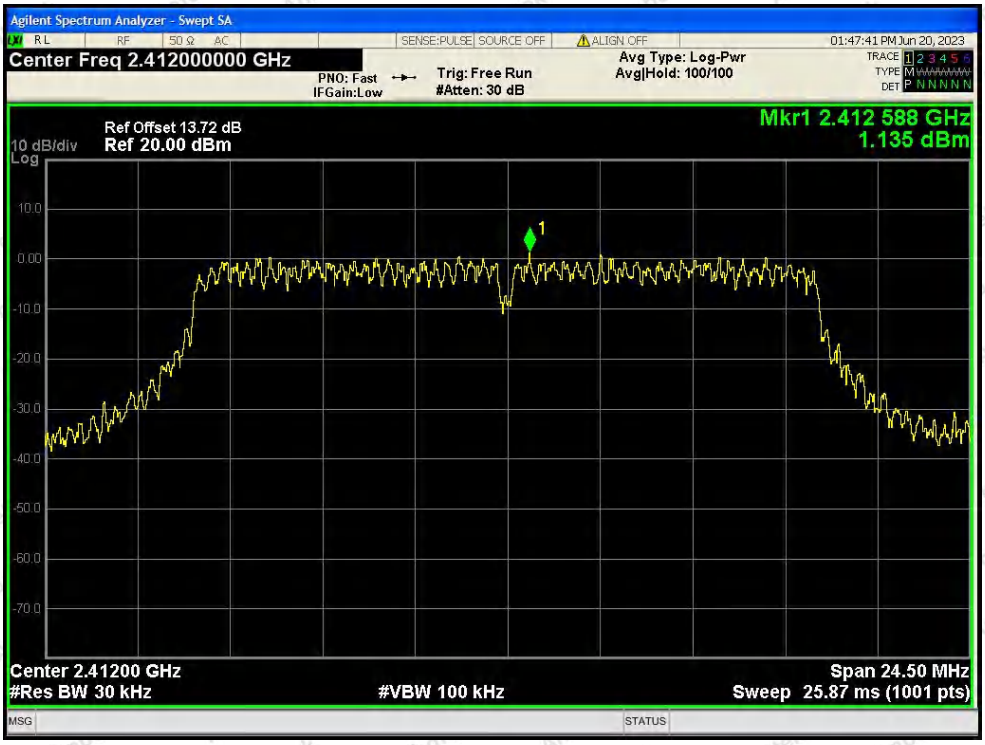
Test Graphs

PSD NVNT b 2412MHz Ant1

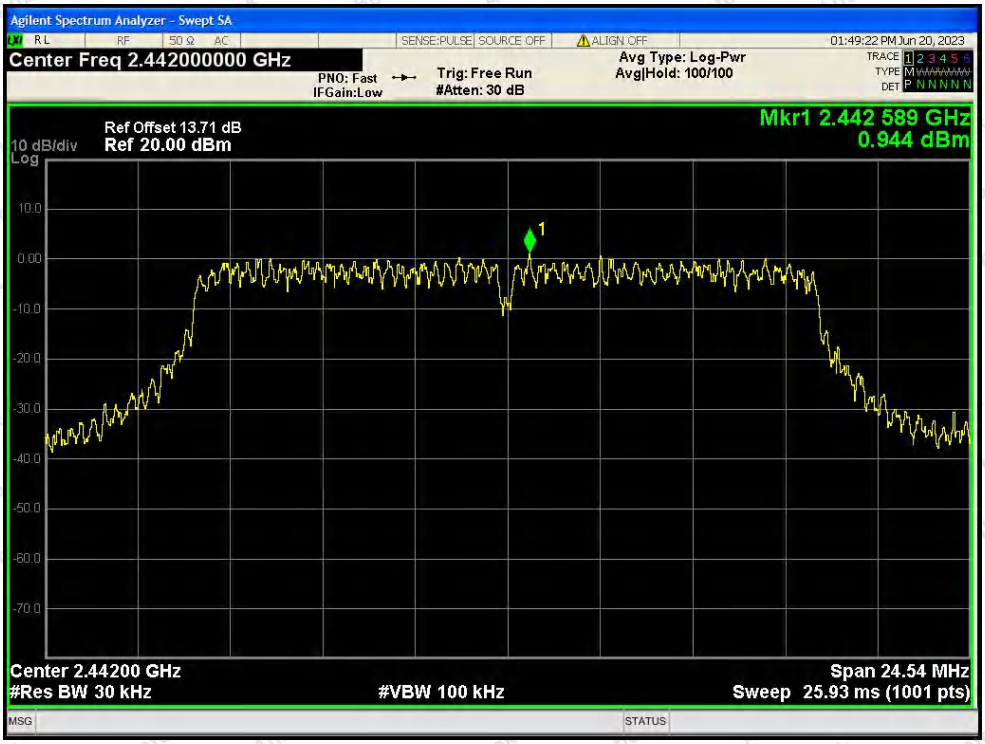
PSD NVNT b 2442MHz Ant1

PSD NVNT b 2472MHz Ant1

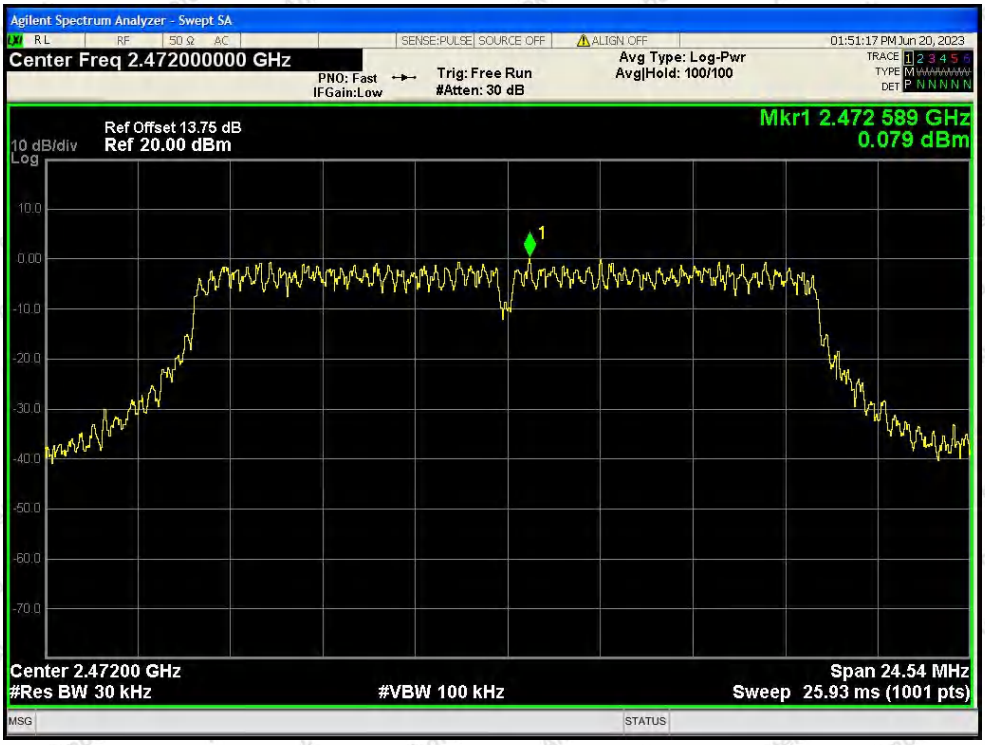
PSD NVNT g 2412MHz Ant1



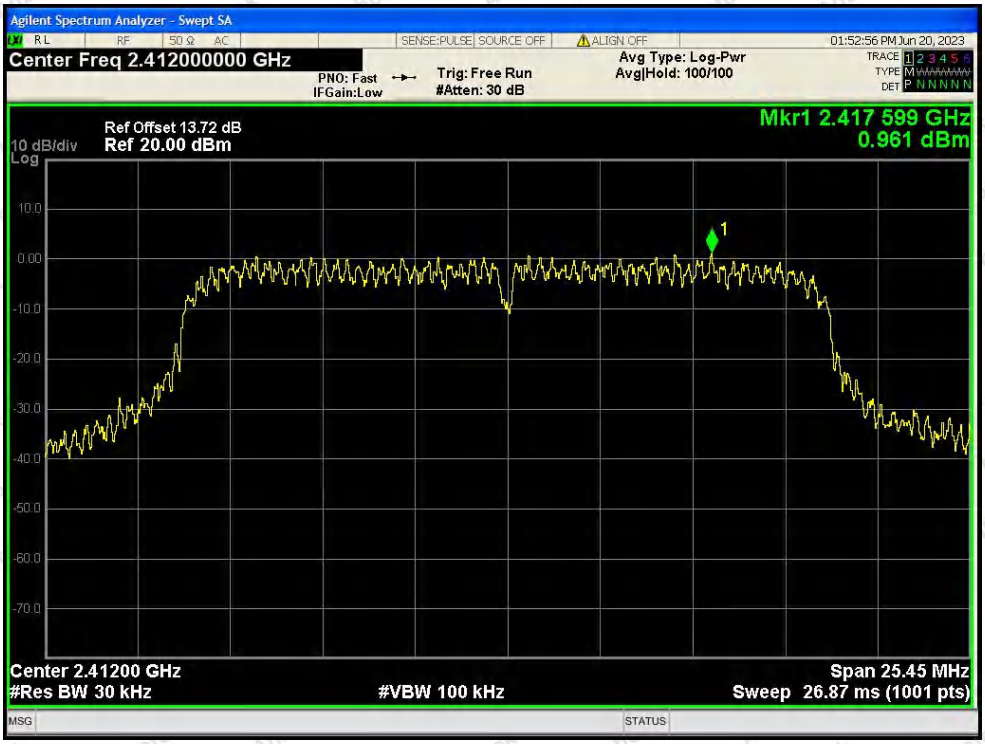
PSD NVNT g 2442MHz Ant1



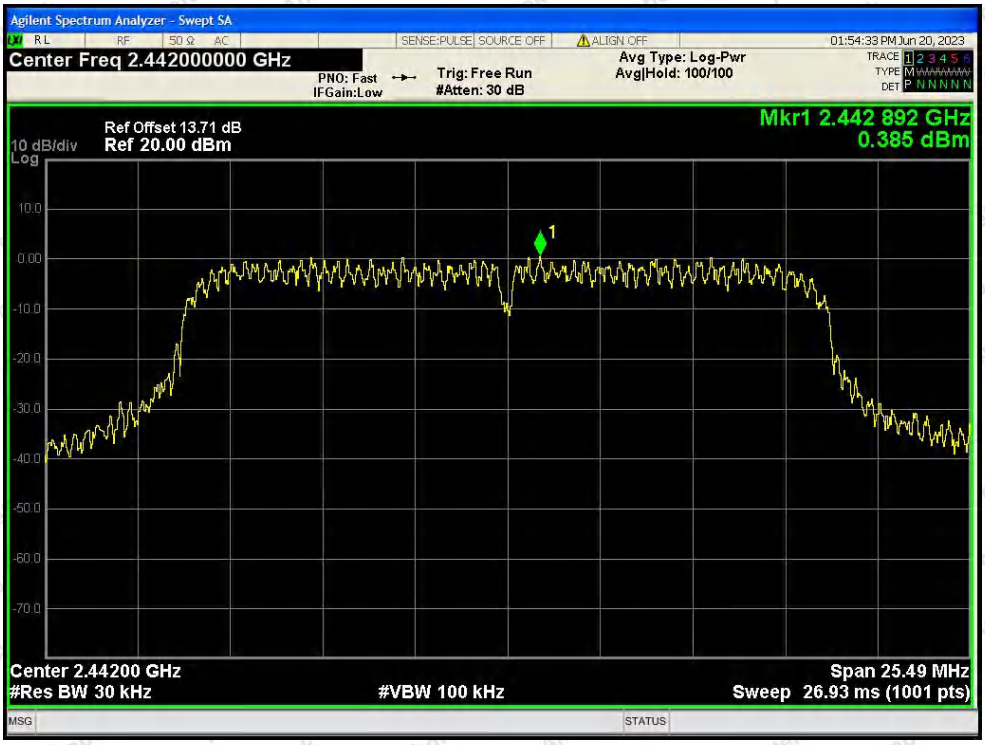
PSD NVNT g 2472MHz Ant1



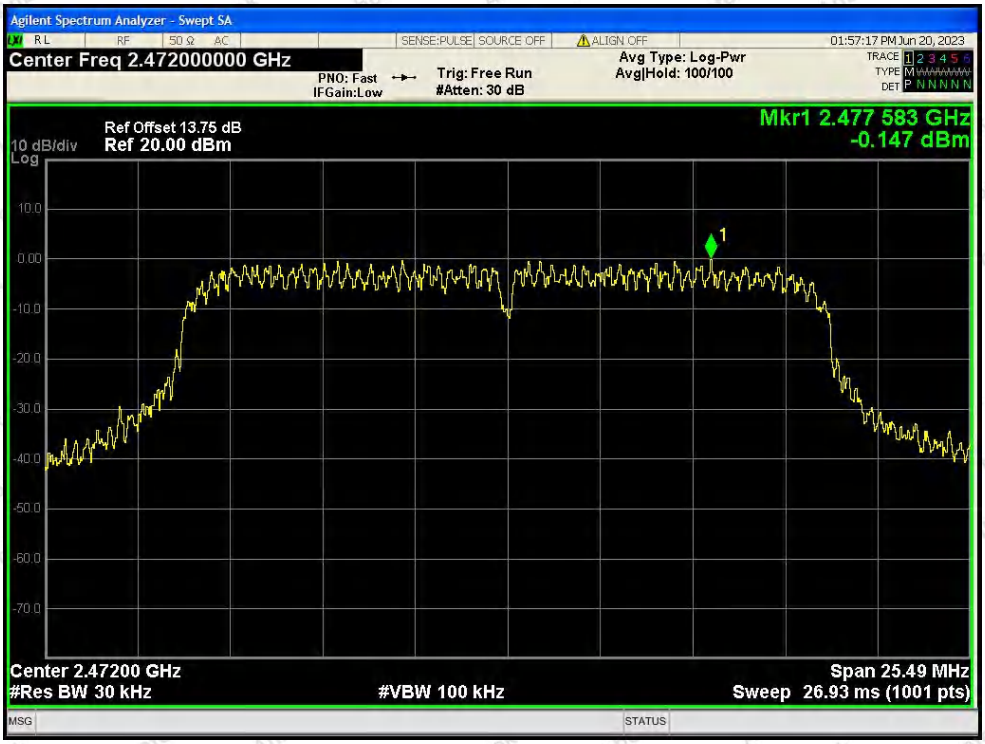
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2442MHz Ant1



PSD NVNT n20 2472MHz Ant1



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