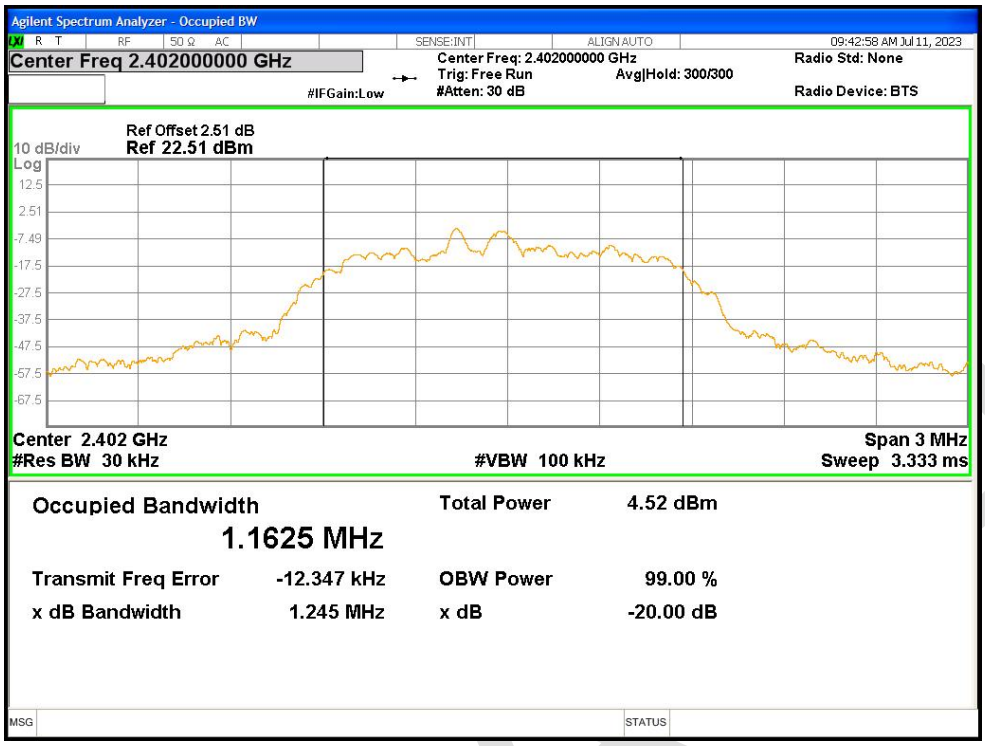
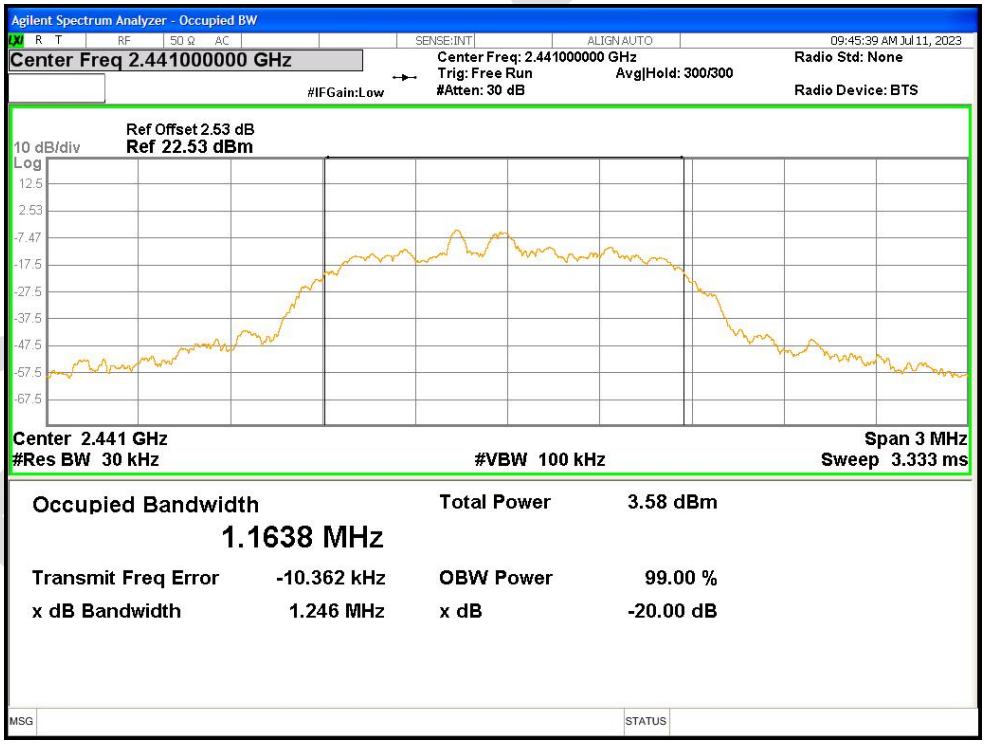
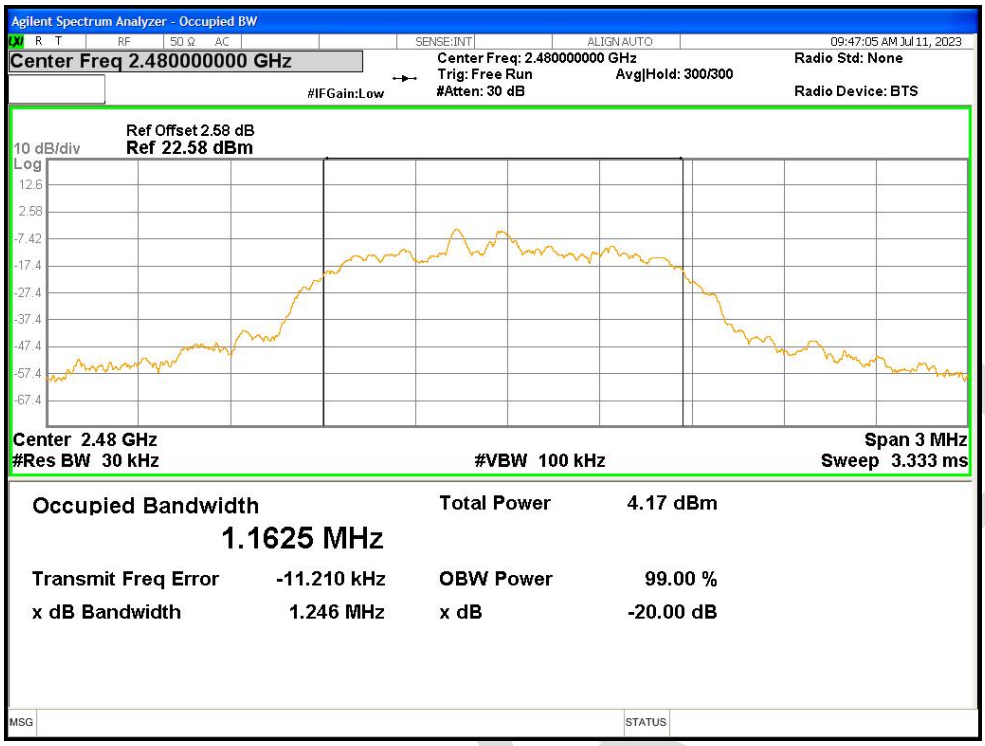


OBW NVNT 2-DH1 2441MHz Ant1



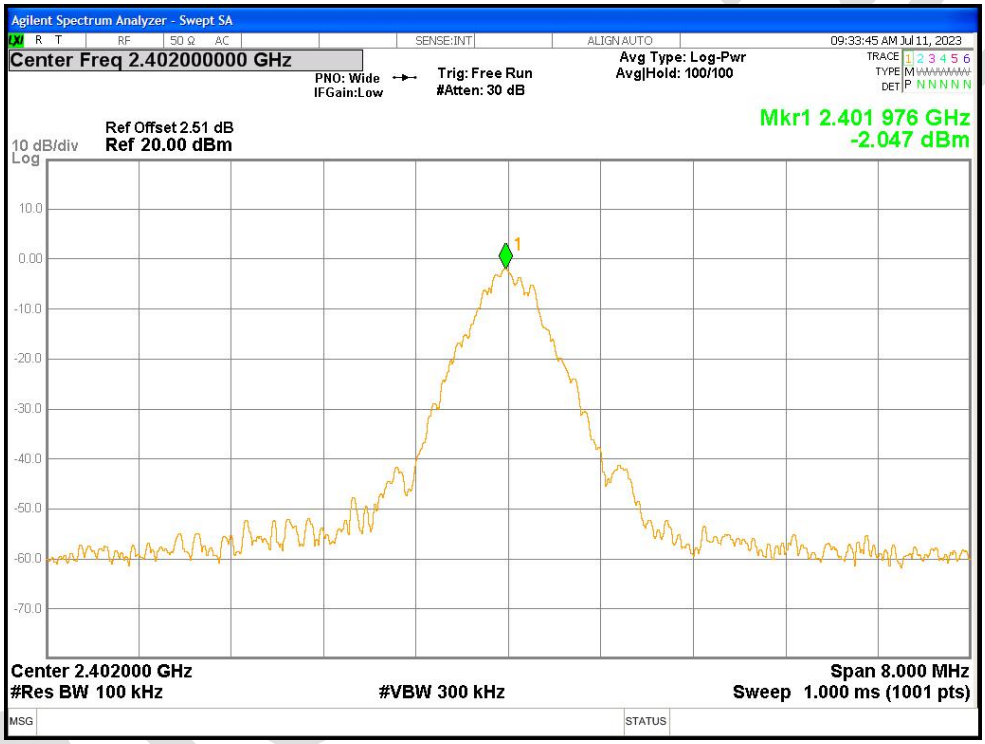
OBW NVNT 2-DH1 2480MHz Ant1


Agilent Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 300/300
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
09:47:05 AM Jul 11, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 22.58 dBm
Log
12.6
2.58
-7.42
-17.4
-27.4
-37.4
-47.4
-57.4
-67.4
Center 2.48 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3 MHz
Sweep 3.333 ms
Occupied Bandwidth
1.1625 MHz
Total Power 4.17 dBm
Transmit Freq Error -11.210 kHz
OBW Power 99.00 %
x dB Bandwidth 1.246 MHz
x dB -20.00 dB
MSG
STATUS

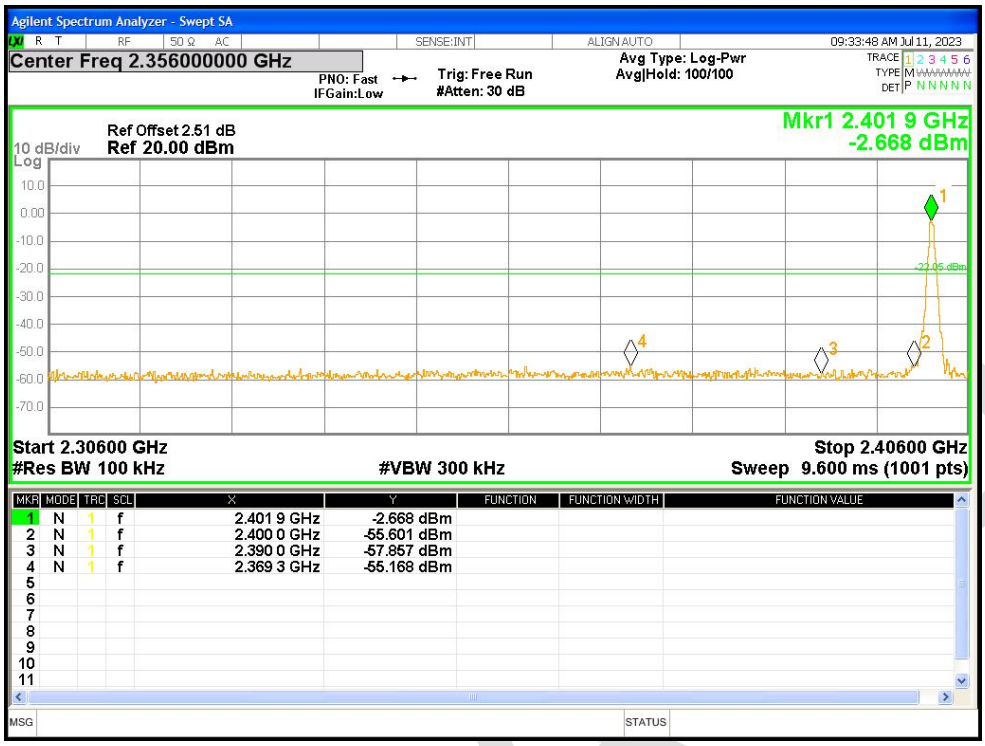
21.4 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	No-Hopping	-53.11	-20	Pass
NVNT	1-DH1	2480	Ant1	No-Hopping	-53.23	-20	Pass
NVNT	2-DH1	2402	Ant1	No-Hopping	-52.3	-20	Pass
NVNT	2-DH1	2480	Ant1	No-Hopping	-52.97	-20	Pass

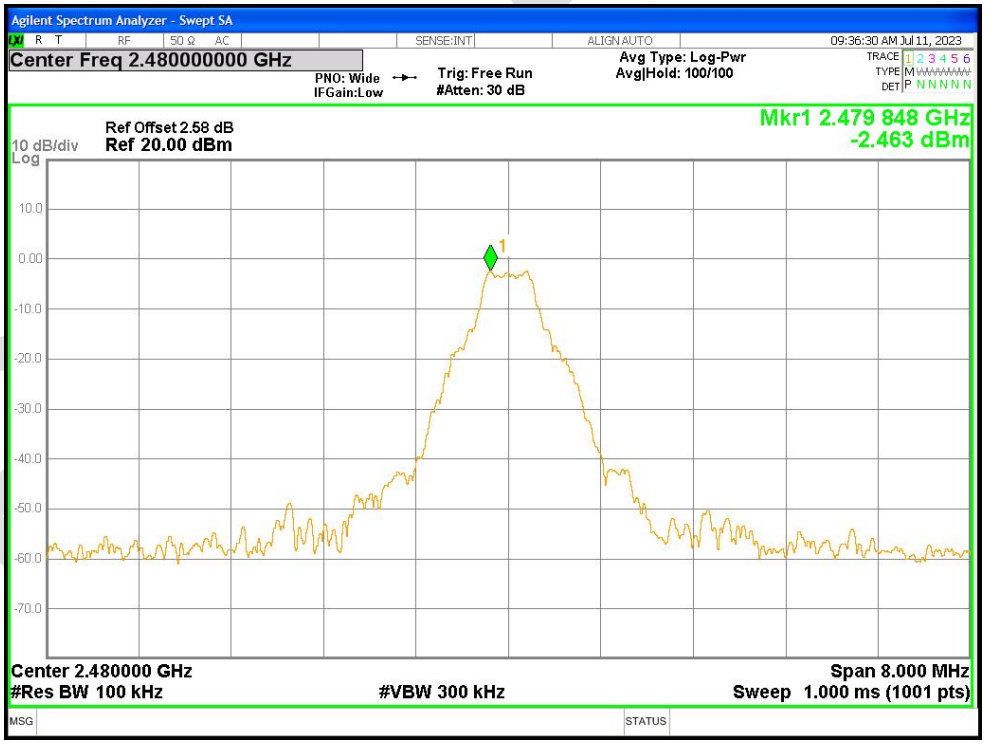
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Ref



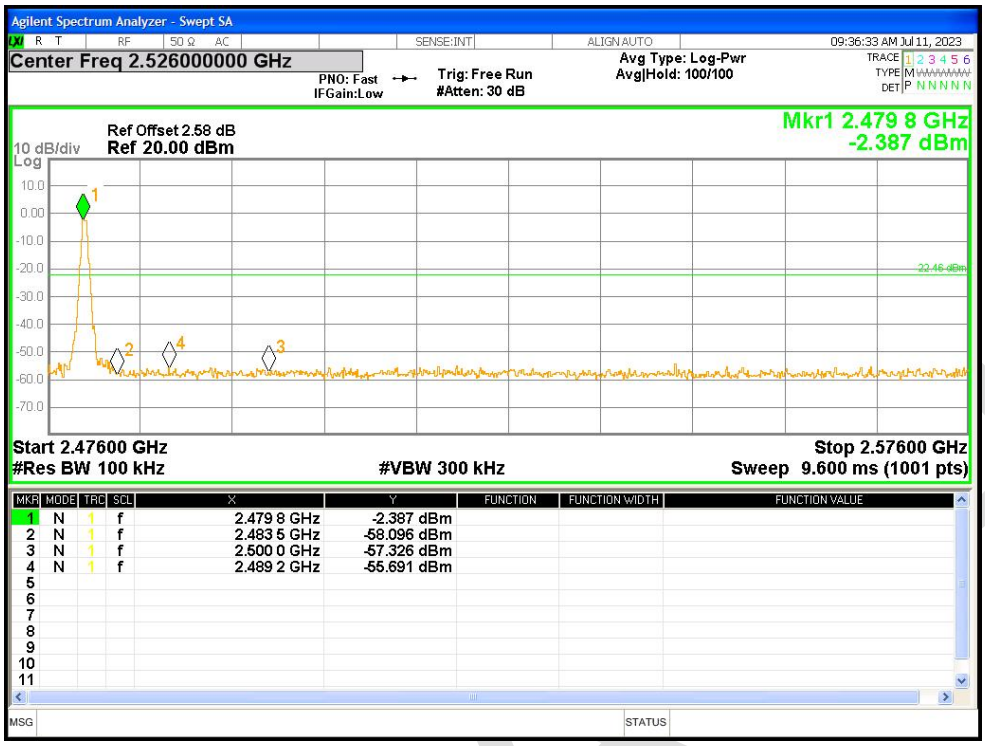
Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



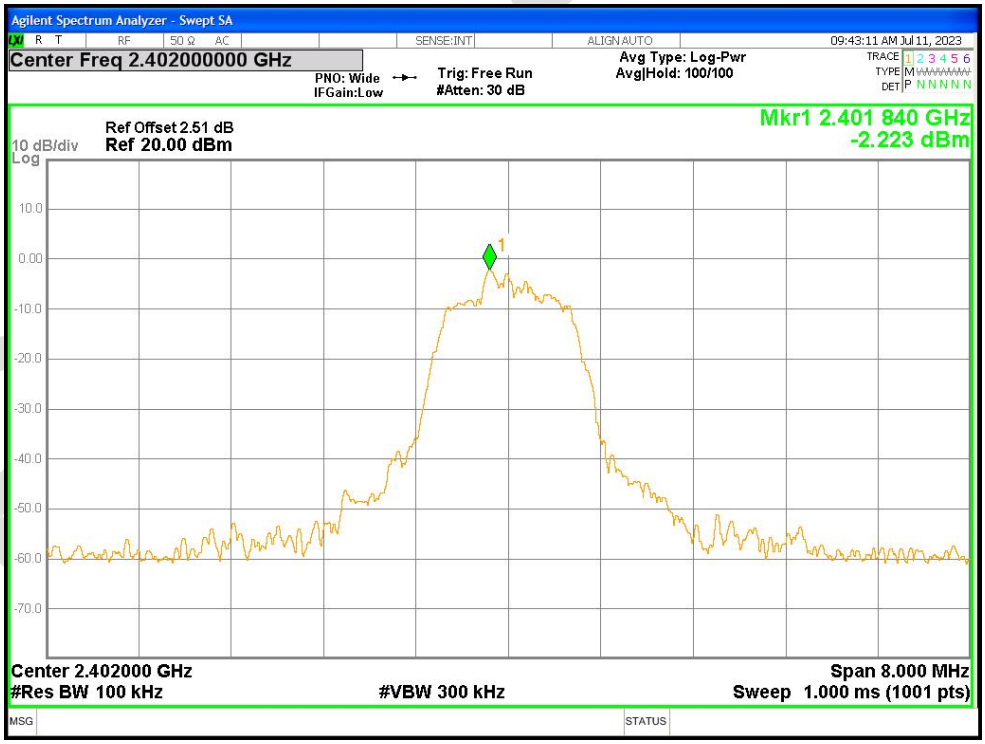
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Ref



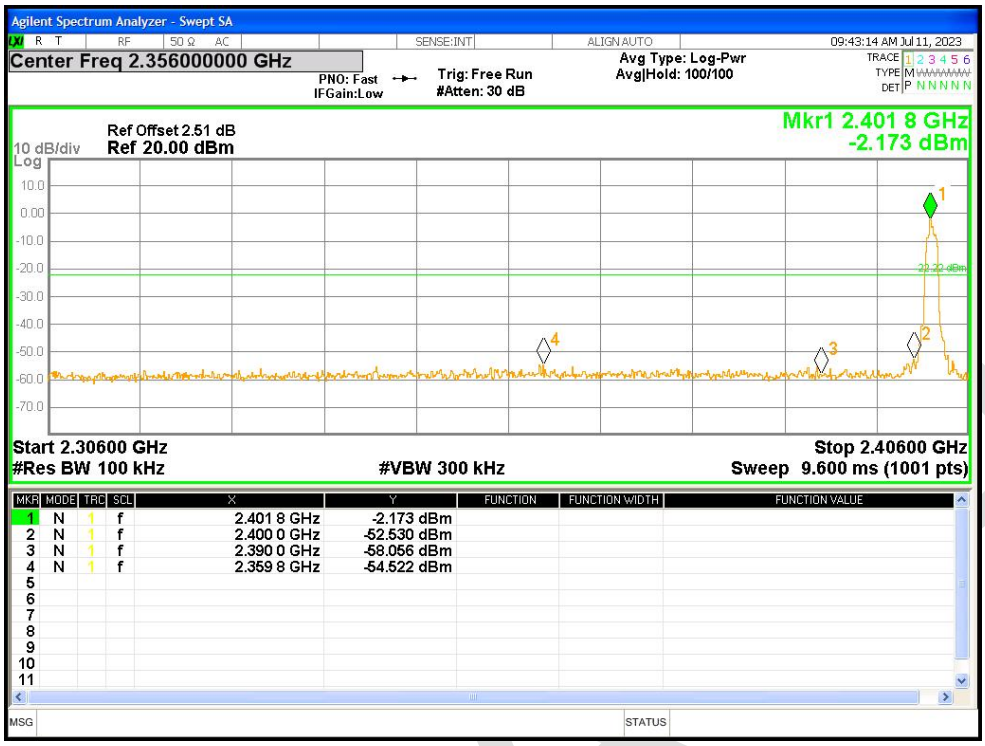
Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



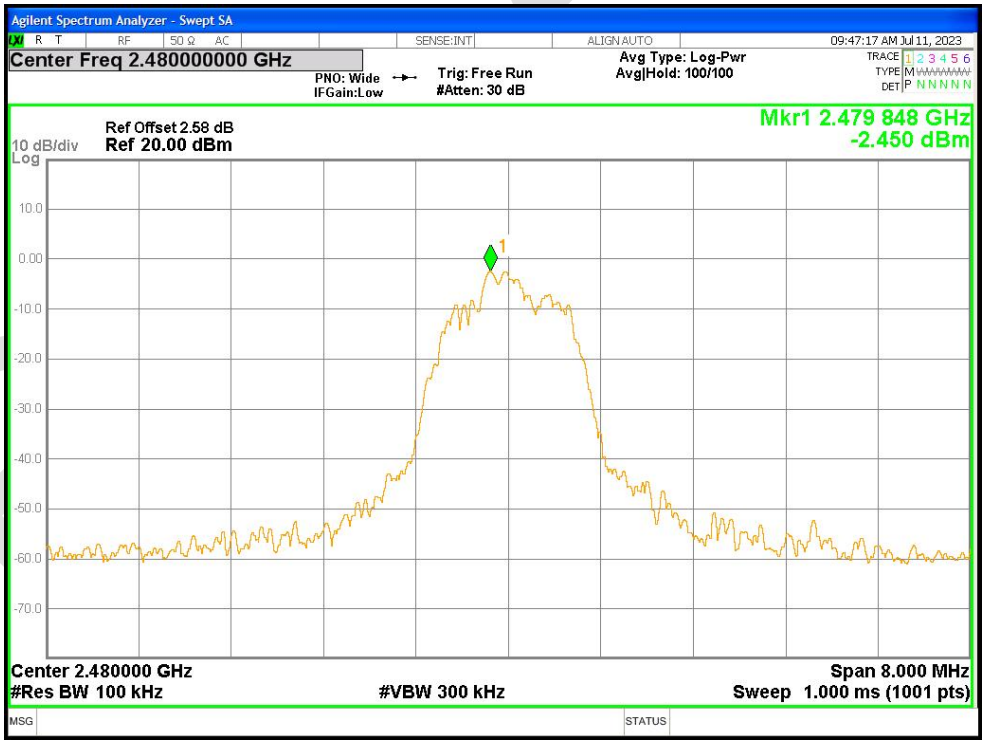
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Ref



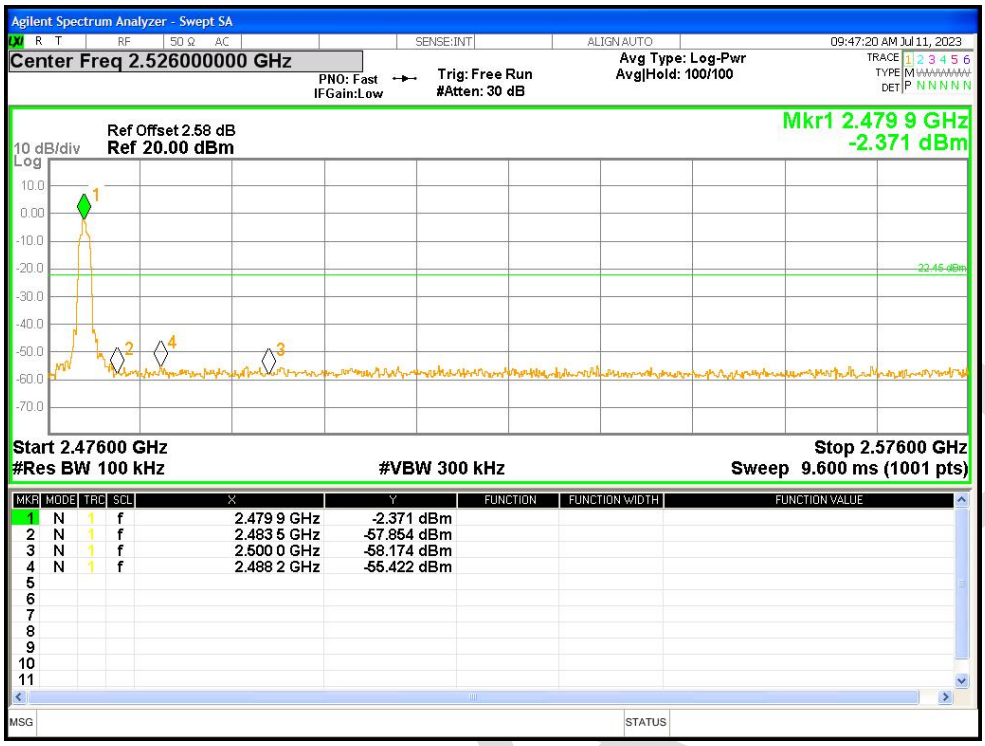
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Ref



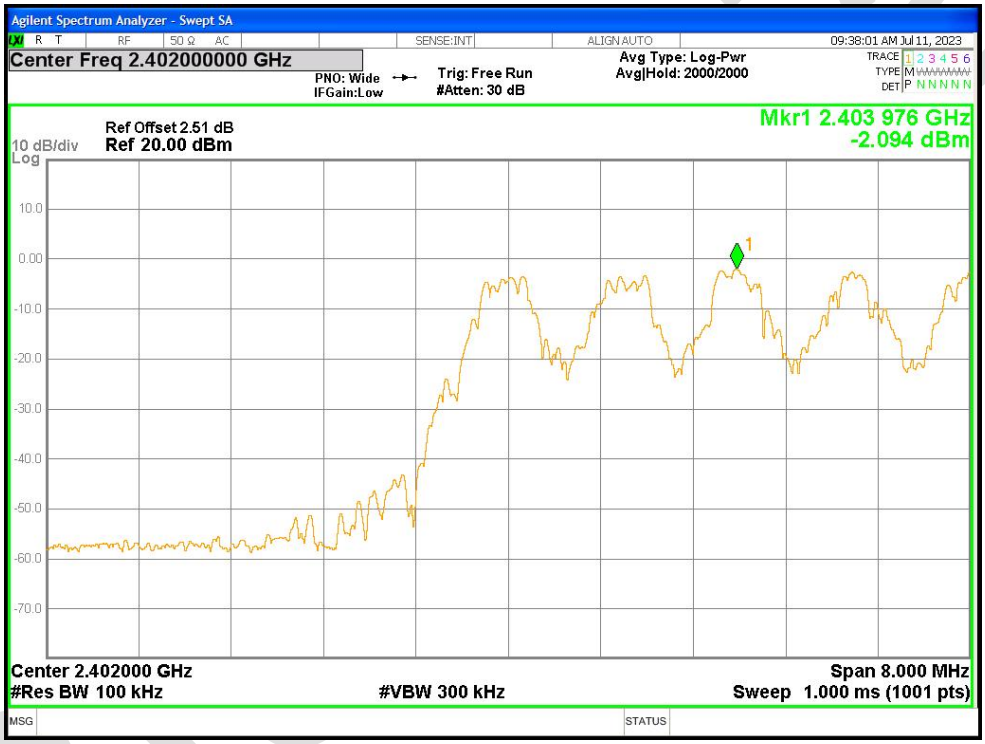
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
09:47:20 AM Jul 11, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.479 9 GHz
-2.371 dBm
22.45 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
1 N 1 f 2.479 9 GHz -2.371 dBm
2 N 1 f 2.483 5 GHz -57.854 dBm
3 N 1 f 2.500 0 GHz -58.174 dBm
4 N 1 f 2.488 2 GHz -55.422 dBm

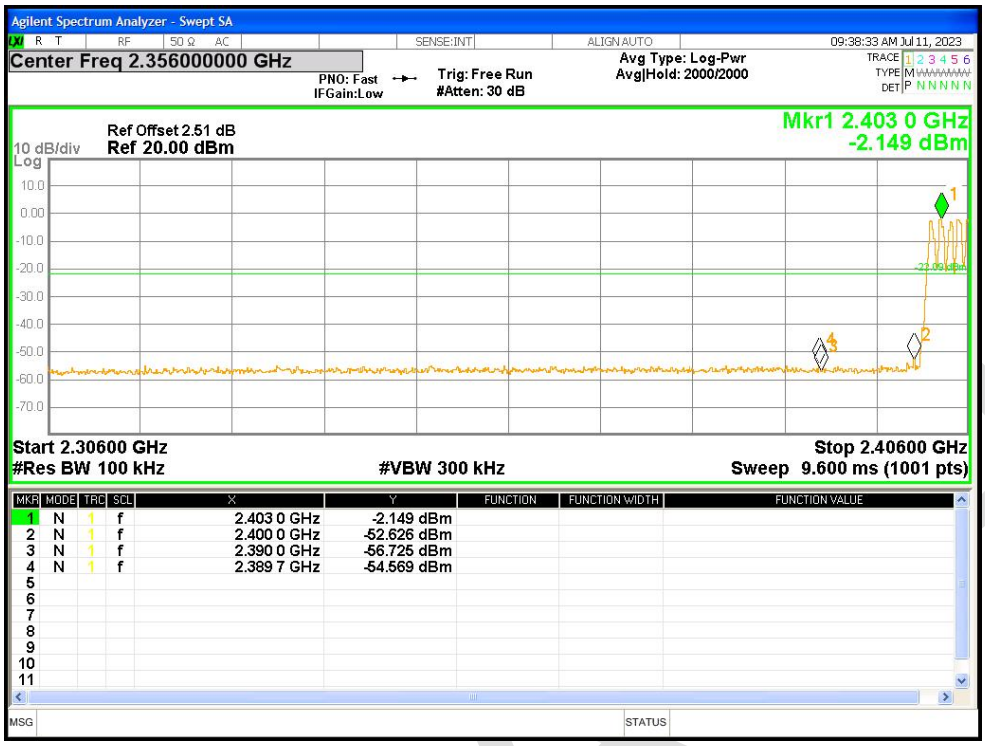
21.5 BAND EDGE(HOPPING)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	Hopping	-52.47	-20	Pass
NVNT	1-DH1	2480	Ant1	Hopping	-51.86	-20	Pass
NVNT	2-DH1	2402	Ant1	Hopping	-52.57	-20	Pass
NVNT	2-DH1	2480	Ant1	Hopping	-51.04	-20	Pass

Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Ref

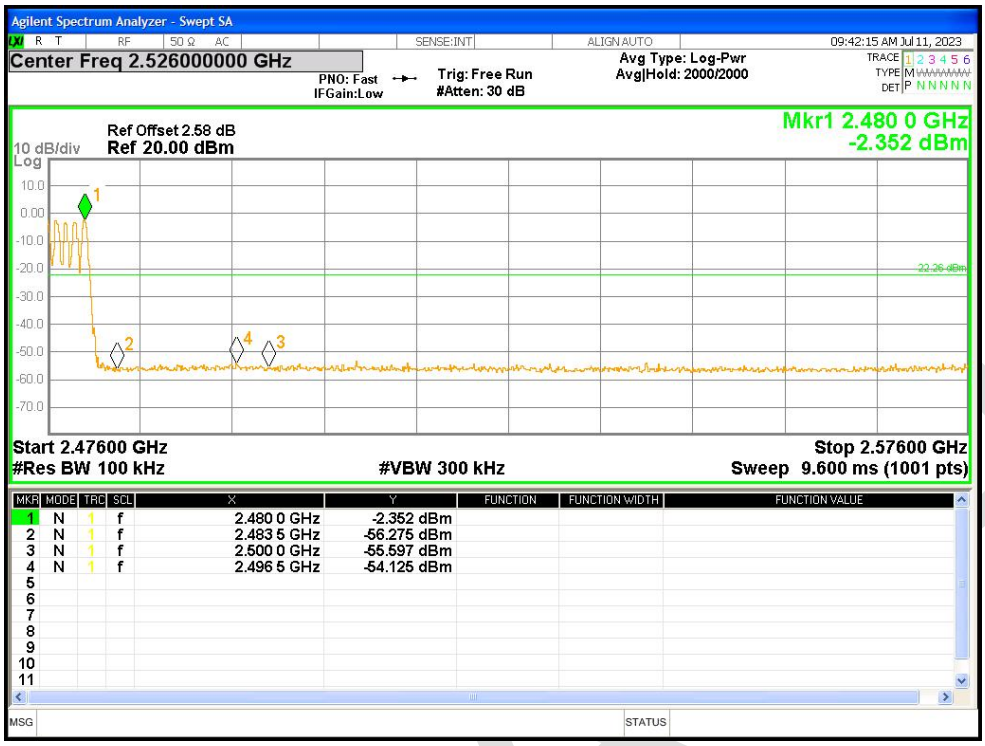


Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission

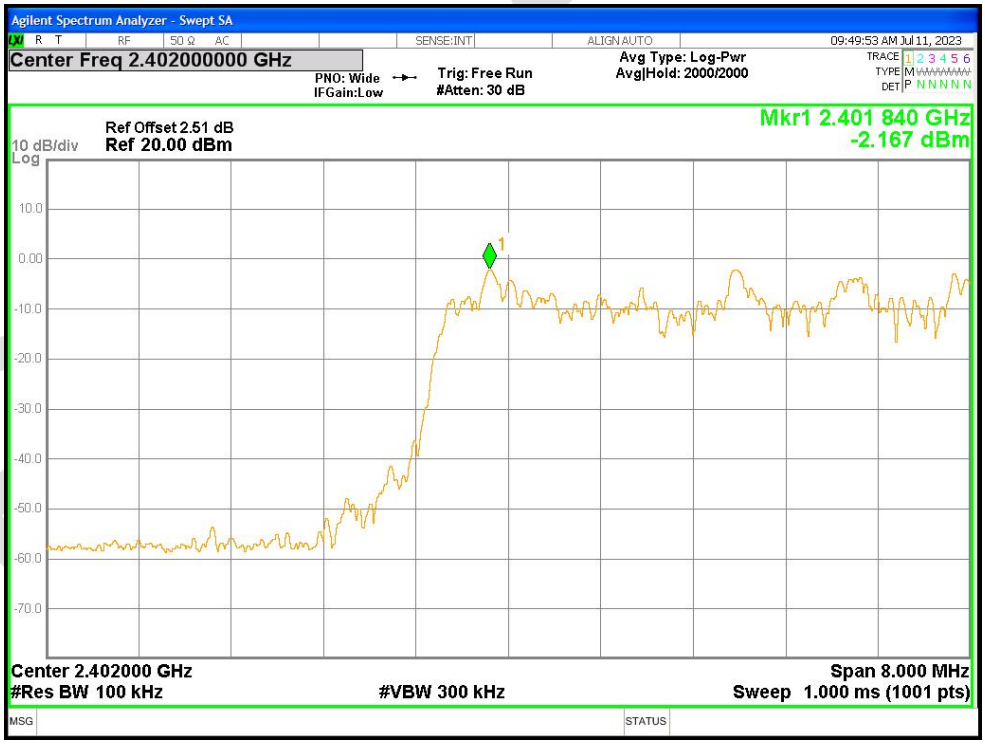


Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Ref

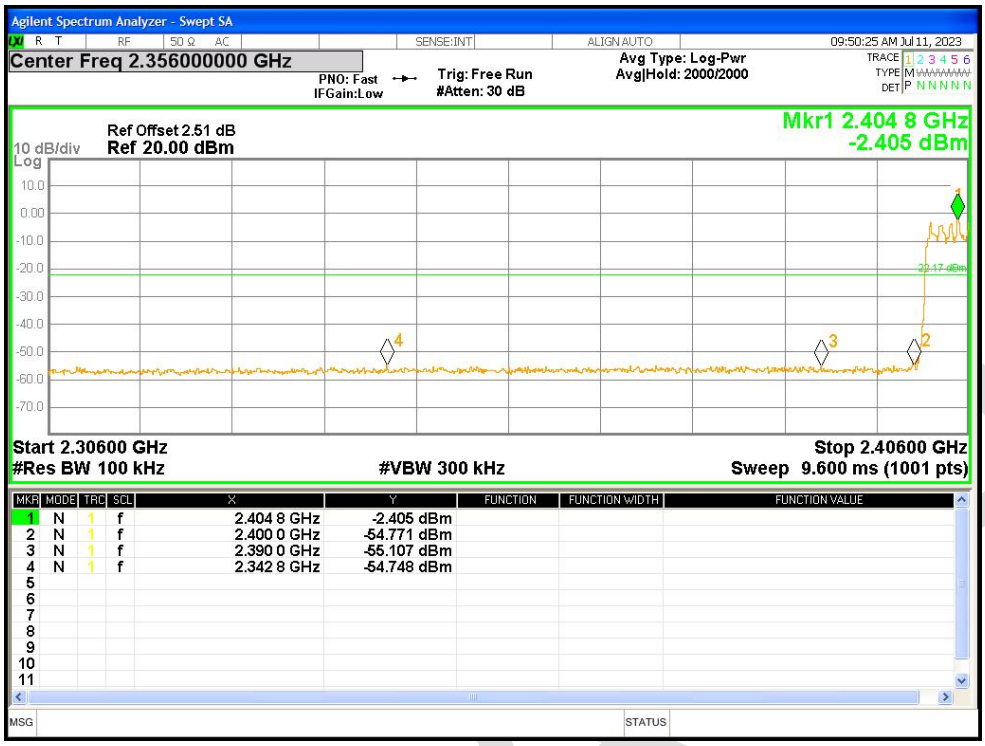
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Ref

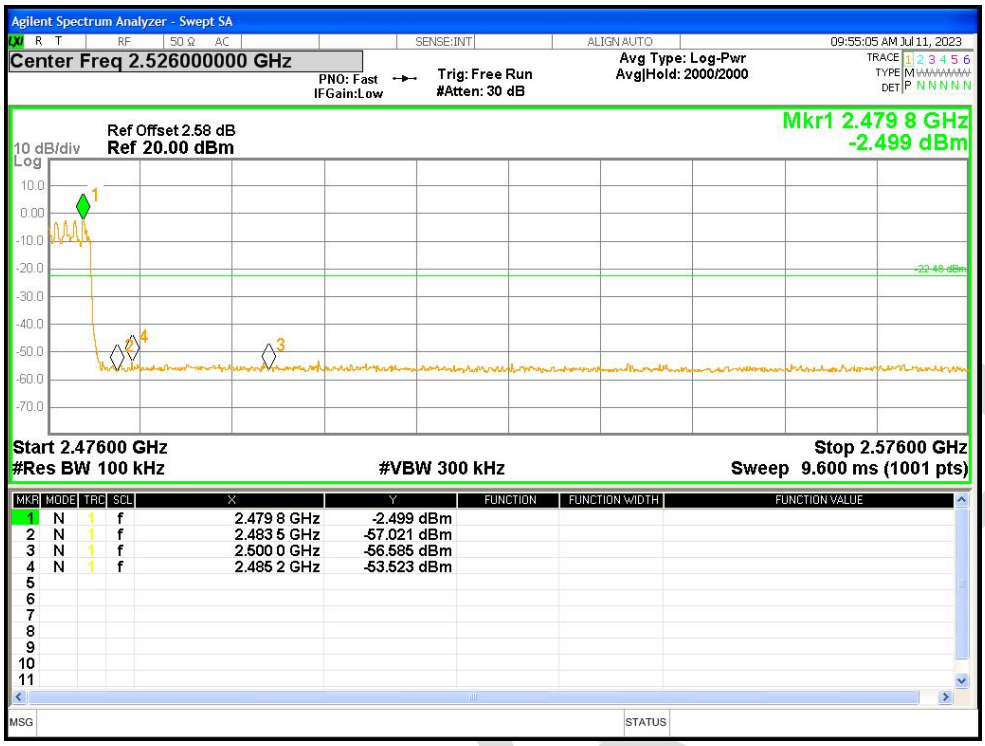


Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref

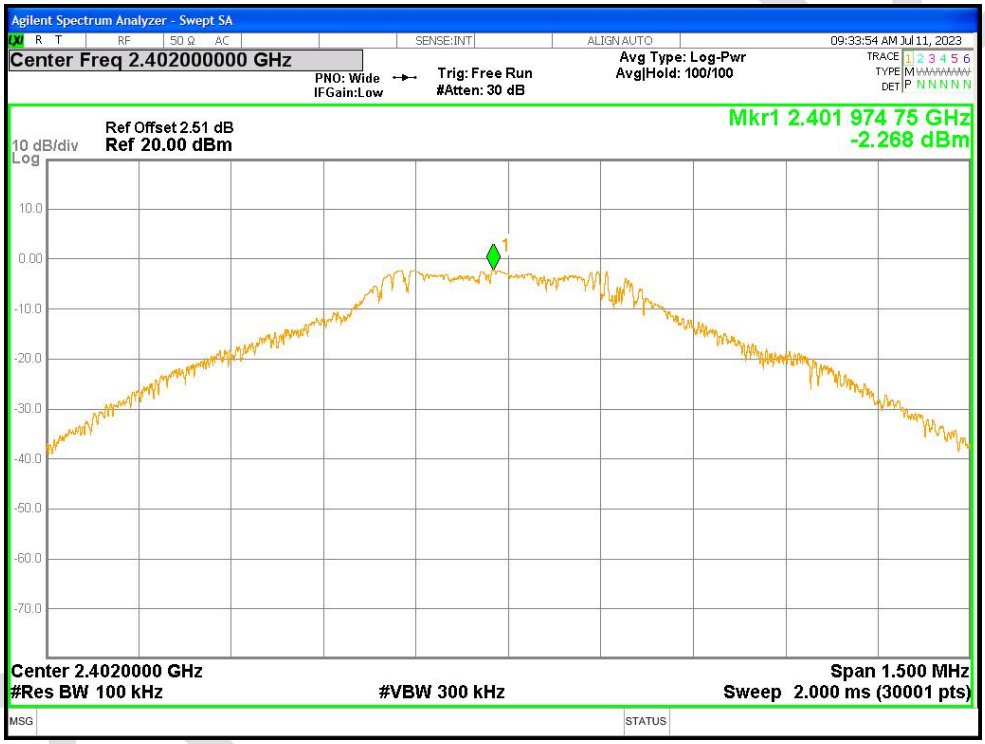
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.526000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 2000/2000
09:55:05 AM Jul 11, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.479 8 GHz
-2.499 dBm
-22.48 dBm
Start 2.47600 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.57600 GHz
Sweep 9.600 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.479 8 GHz -2.499 dBm
2 N 1 f 2.483 5 GHz -57.021 dBm
3 N 1 f 2.500 0 GHz -56.585 dBm
4 N 1 f 2.485 2 GHz -53.523 dBm
MSG
STATUS

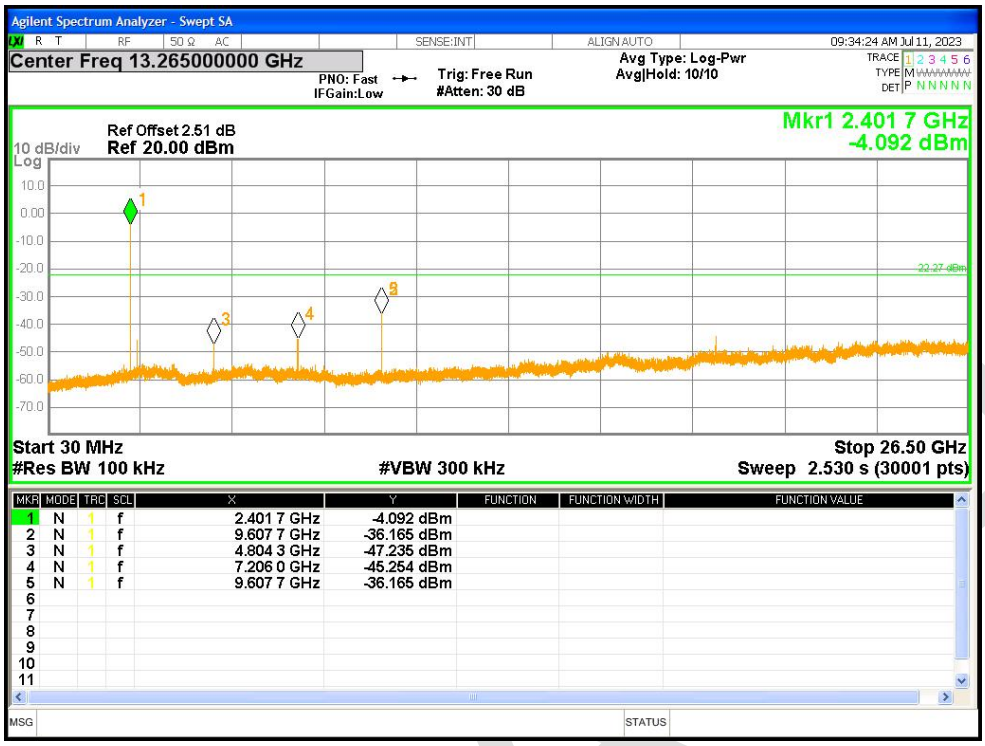
21.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-33.89	-20	Pass
NVNT	1-DH1	2441	Ant1	-31.32	-20	Pass
NVNT	1-DH1	2480	Ant1	-29.03	-20	Pass
NVNT	2-DH1	2402	Ant1	-33.56	-20	Pass
NVNT	2-DH1	2441	Ant1	-31.35	-20	Pass
NVNT	2-DH1	2480	Ant1	-29.7	-20	Pass

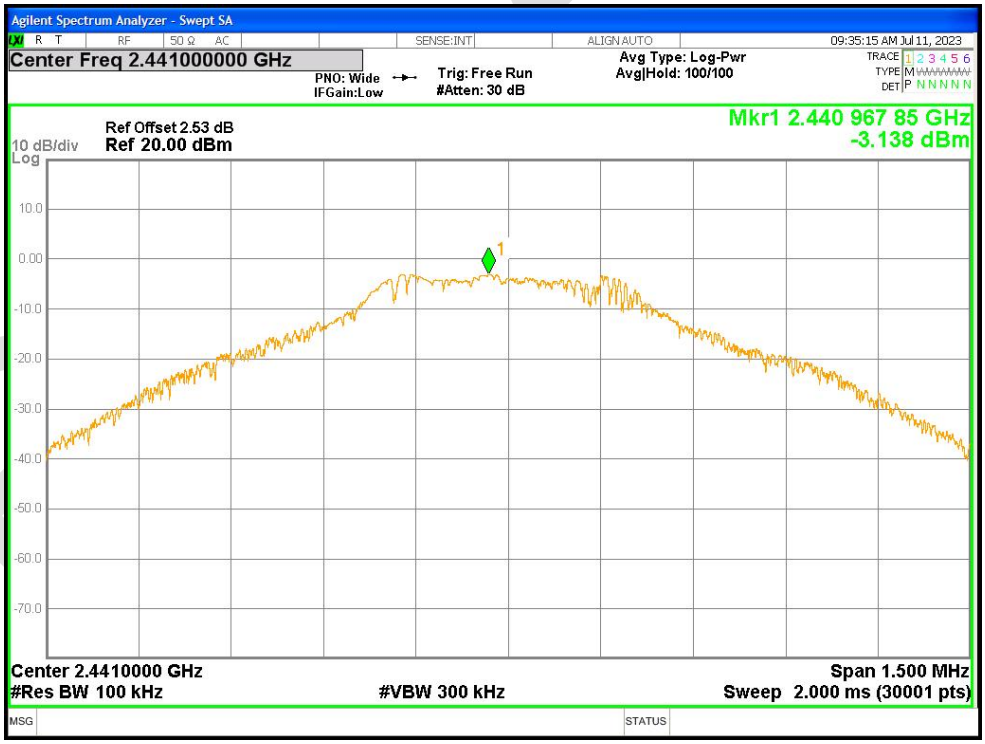
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



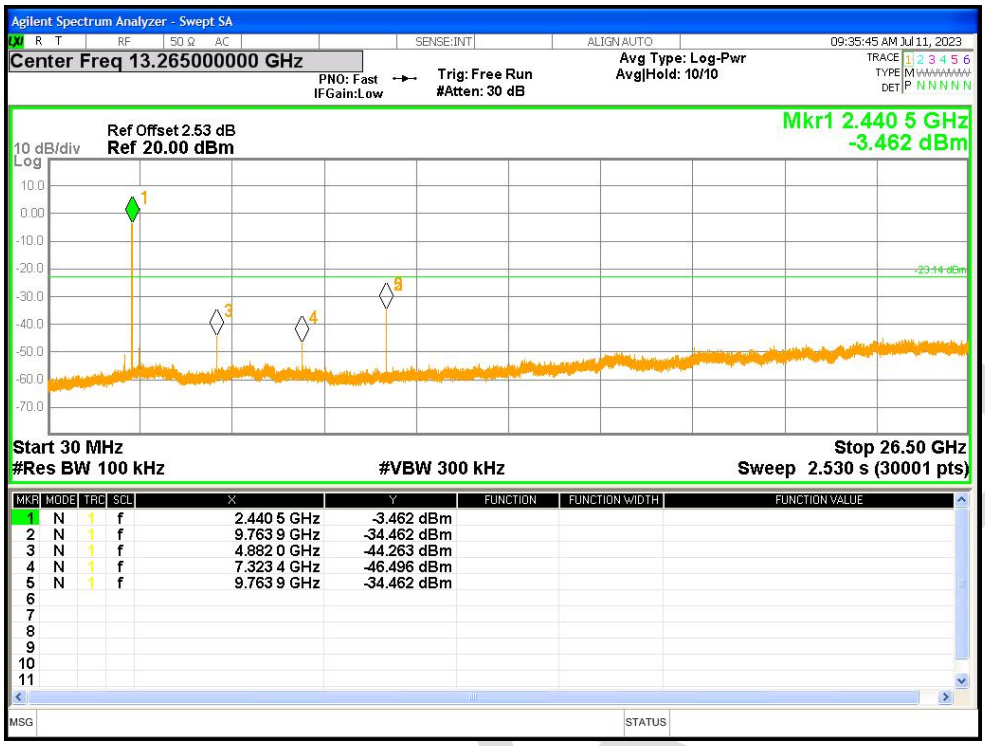
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



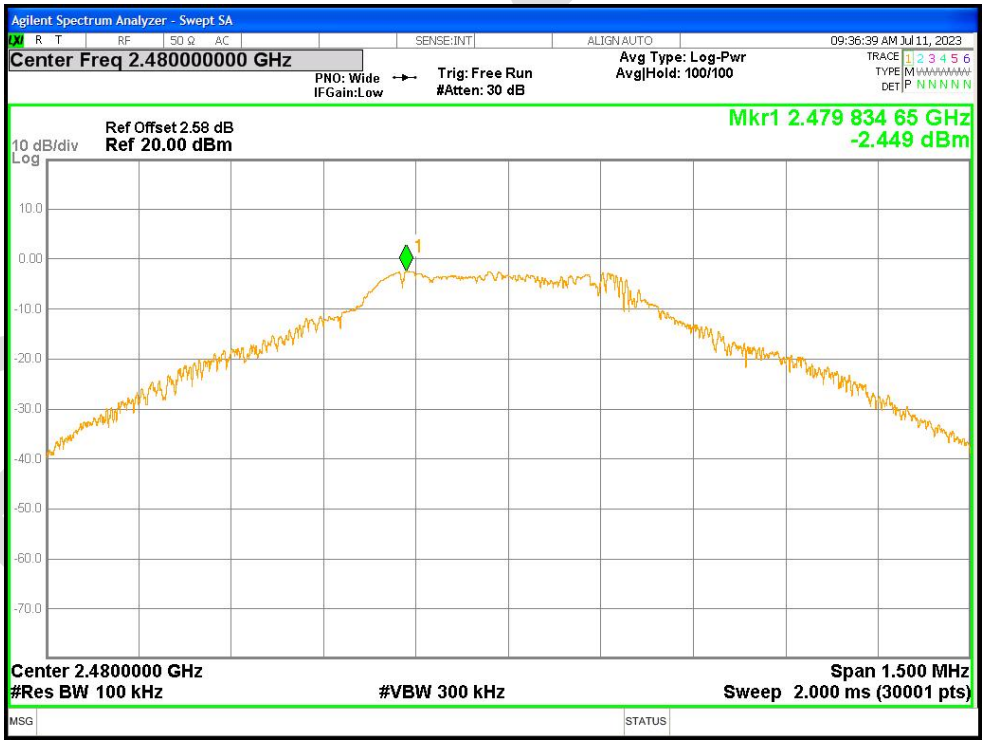
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



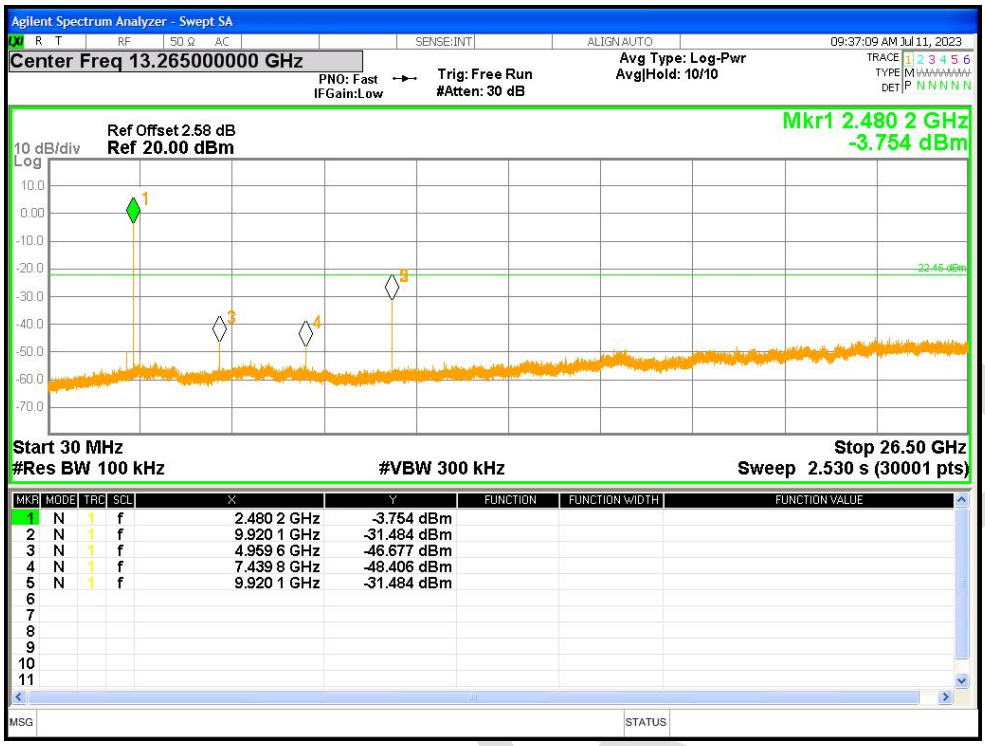
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



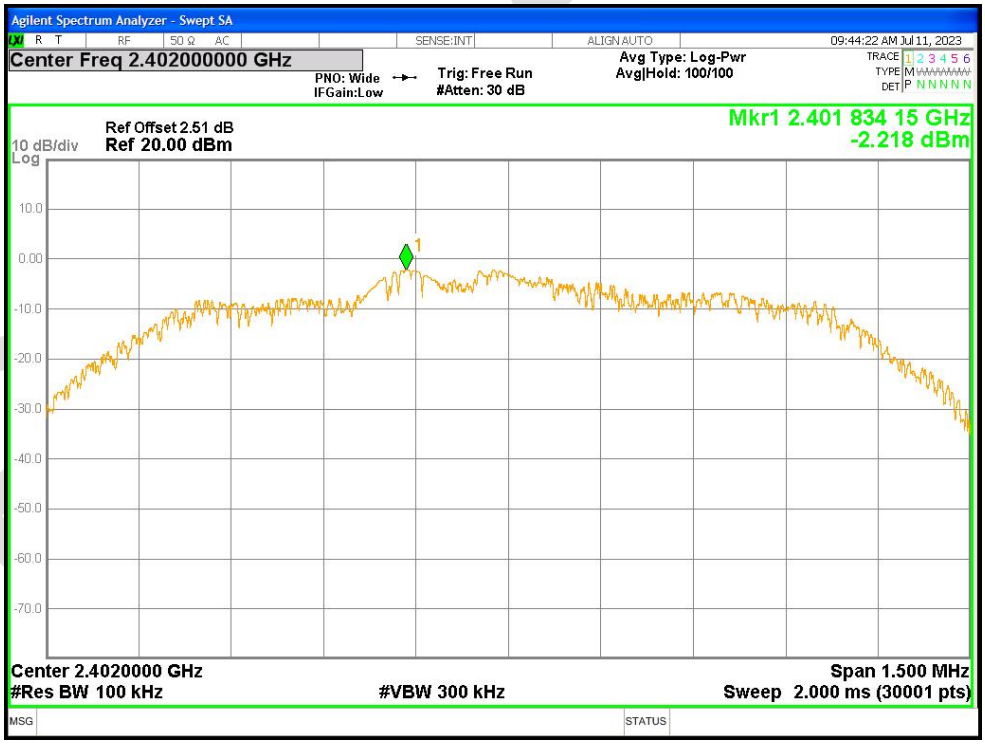
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



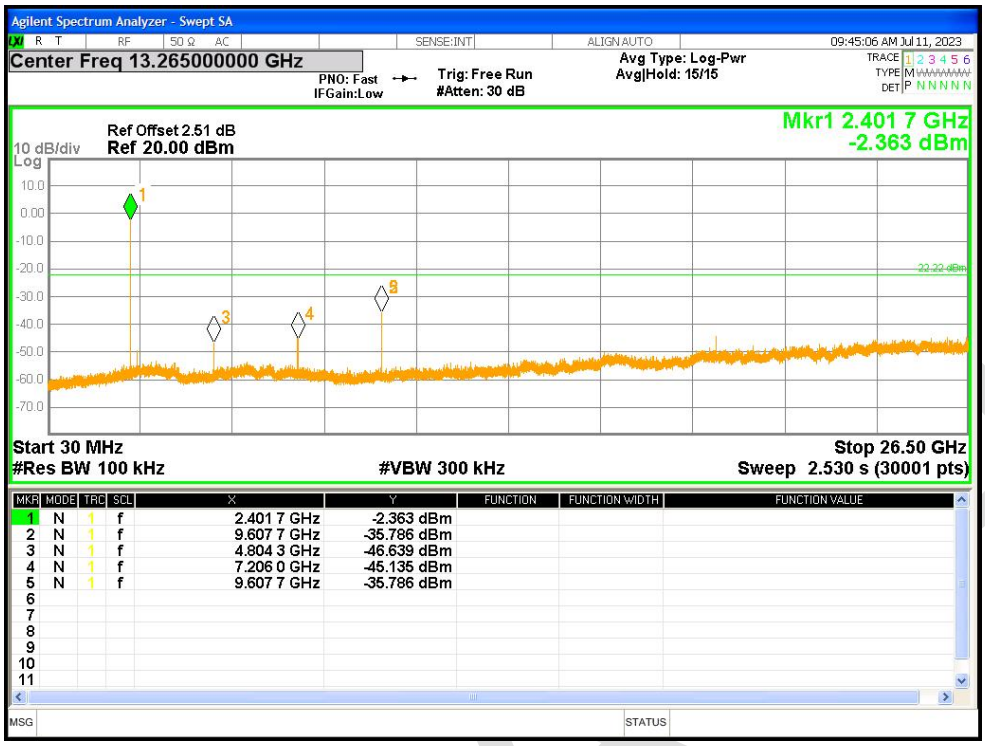
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



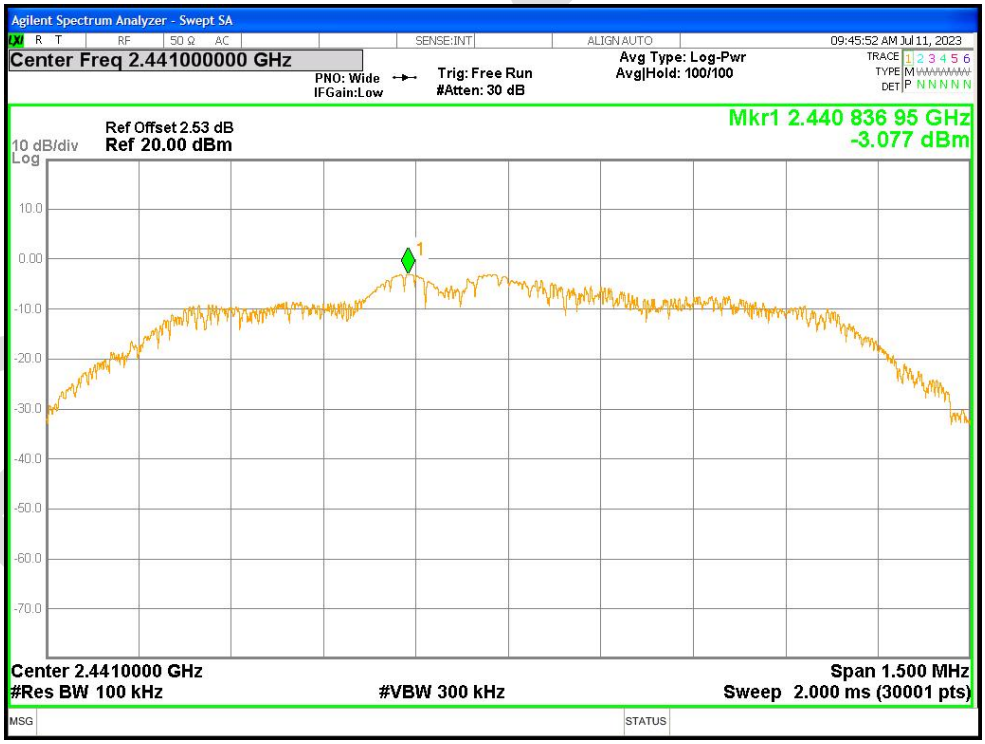
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



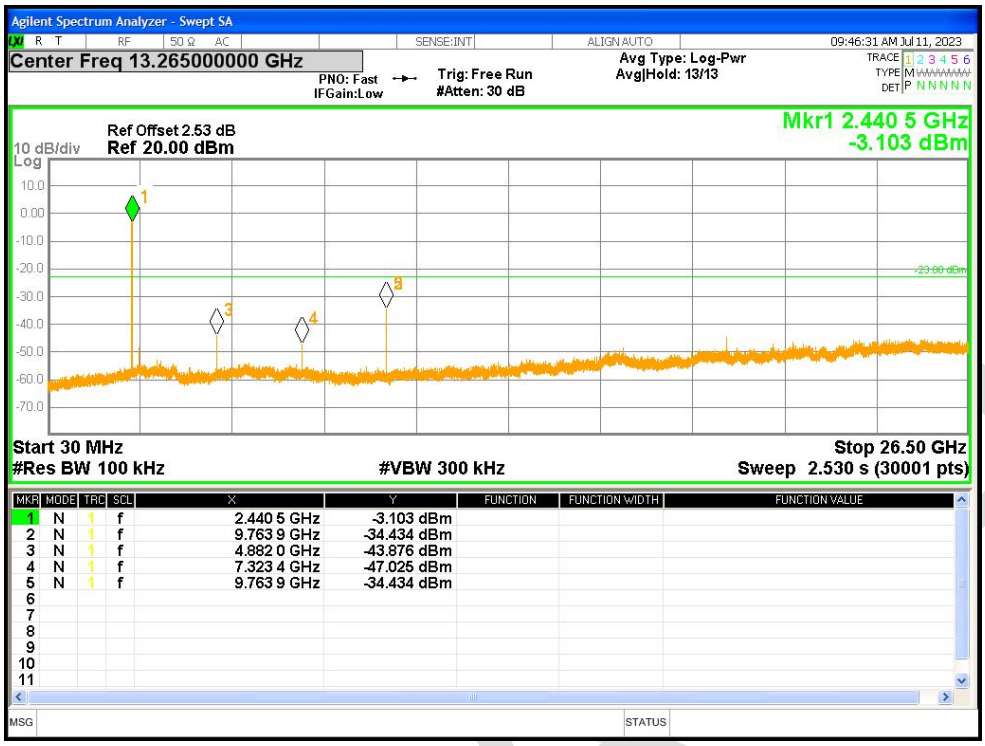
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



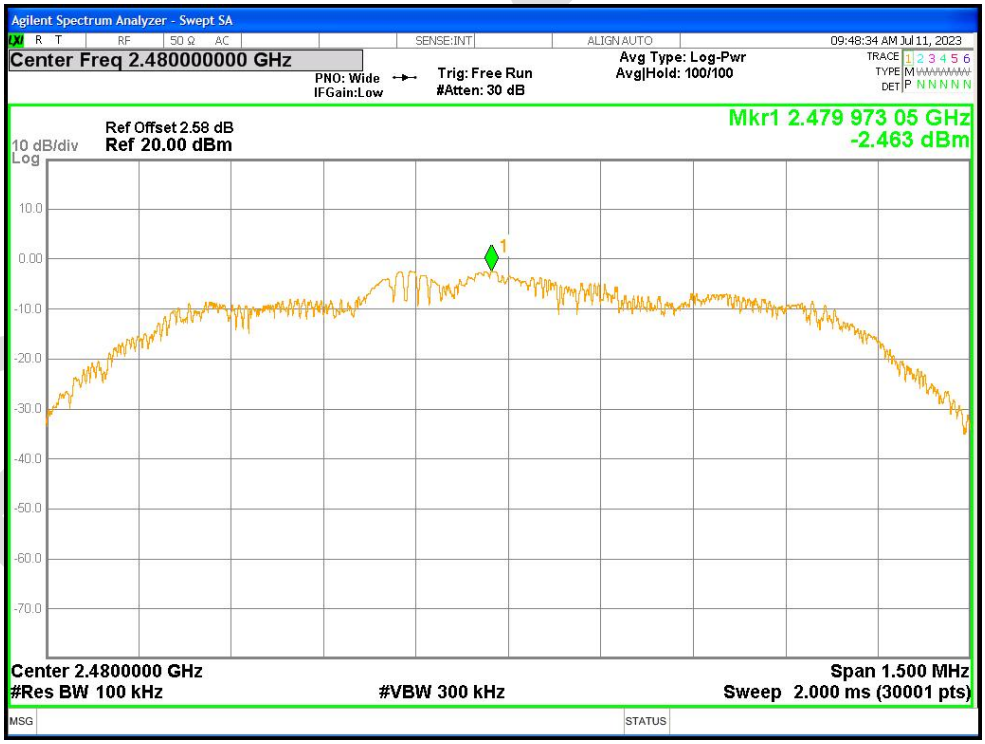
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



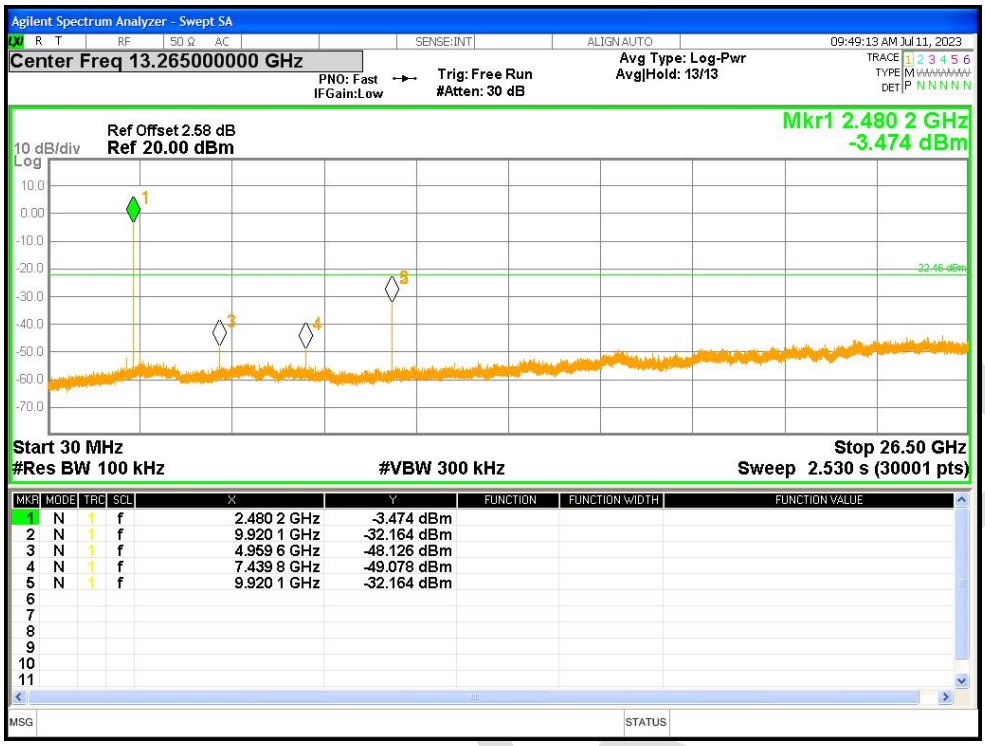
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



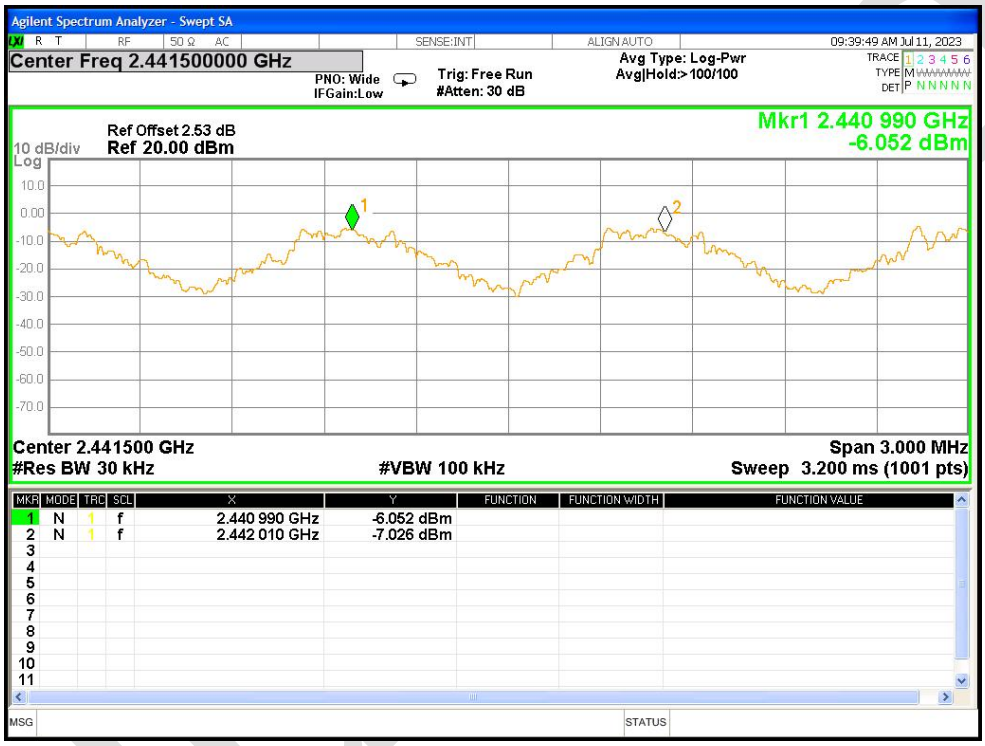
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission


Agilent Spectrum Analyzer - Swept SA
Center Freq 13.265000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 13/13
09:49:13 AM Jul 11, 2023
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 2 GHz
-3.474 dBm
-22.46 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.530 s (30001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.480 2 GHz -3.474 dBm
2 N 1 f 9.920 1 GHz -32.164 dBm
3 N 1 f 4.959 6 GHz -48.126 dBm
4 N 1 f 7.439 8 GHz -49.078 dBm
5 N 1 f 9.920 1 GHz -32.164 dBm
MSG
STATUS

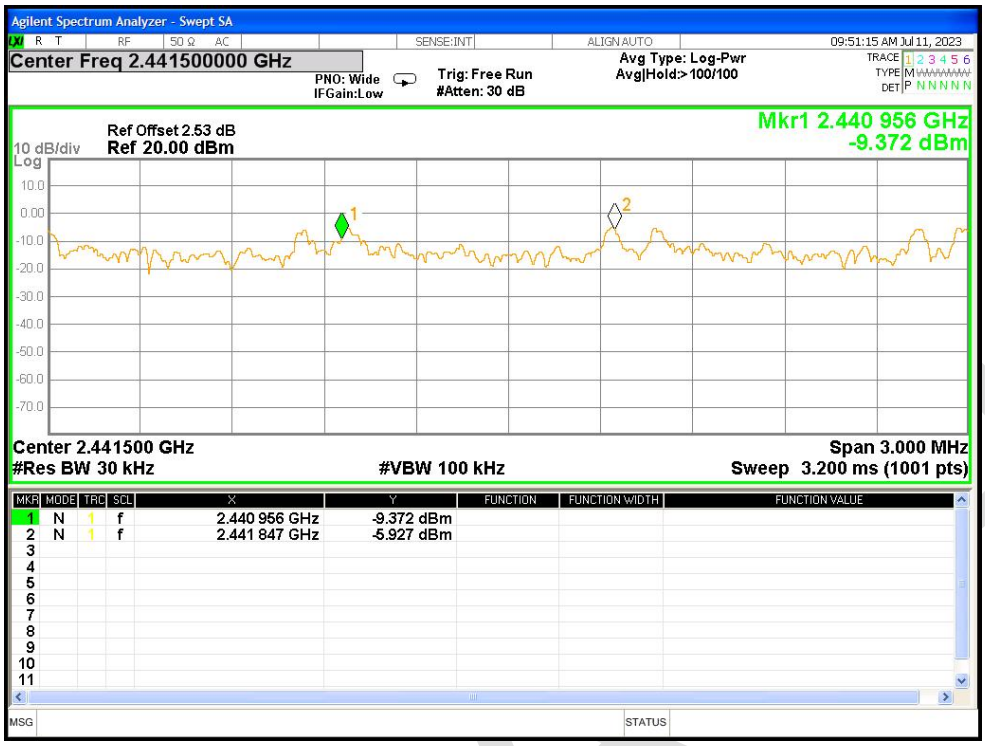
21.7 CARRIER FREQUENCIES SEPARATION

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.99	2442.01	1.02	0.874	Pass
NVNT	2-DH1	Ant1	2440.9555	2441.8465	0.891	0.83	Pass

CFS NVNT 1-DH1 2441MHz Ant1



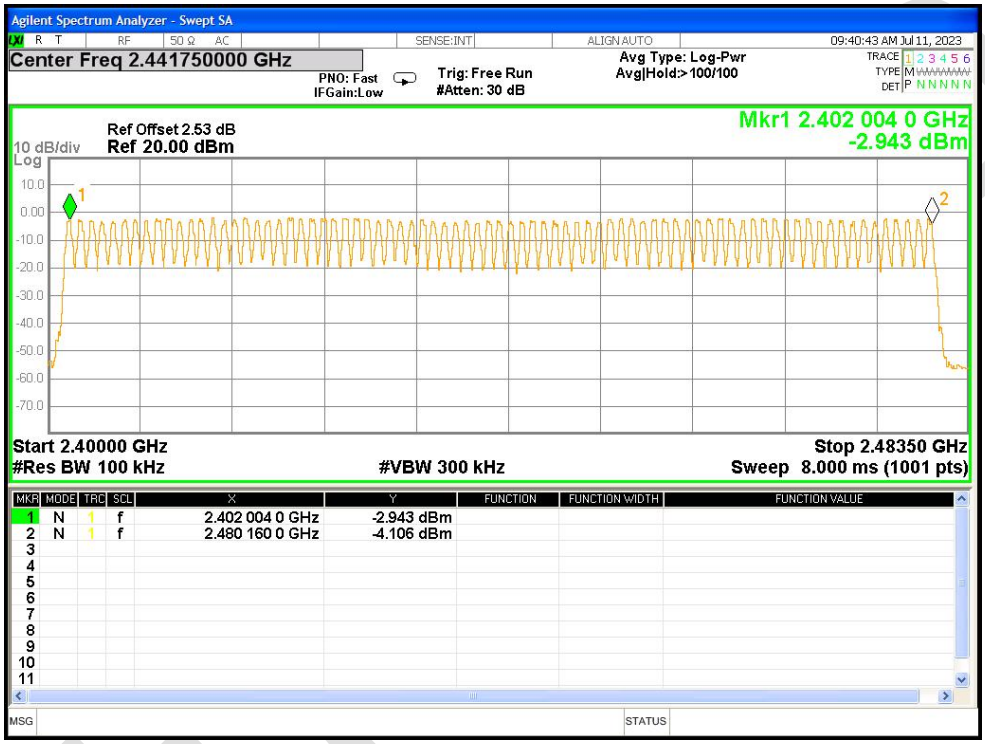
CFS NVNT 2-DH1 2441MHz Ant1


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441500000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:51:15 AM Jul 11, 2023
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.440 956 GHz
-9.372 dBm
Center 2.441500 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3.000 MHz
Sweep 3.200 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.440 956 GHz -9.372 dBm
2 N 1 f 2.441 847 GHz -5.927 dBm
MSG
STATUS

21.8 NUMBER OF HOPPING CHANNEL

Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH1	Ant1	79	15	Pass
NVNT	2-DH1	Ant1	79	15	Pass

Hopping No. NVNT 1-DH1 2441MHz Ant1



Hopping No. NVNT 2-DH1 2441MHz Ant1