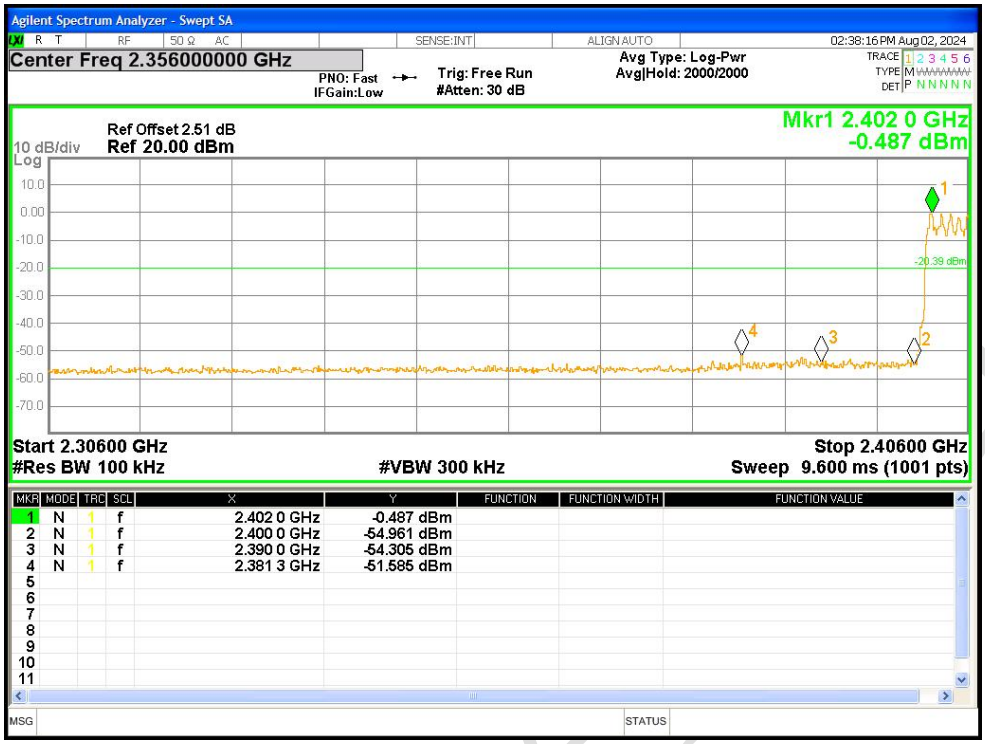


Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Ref

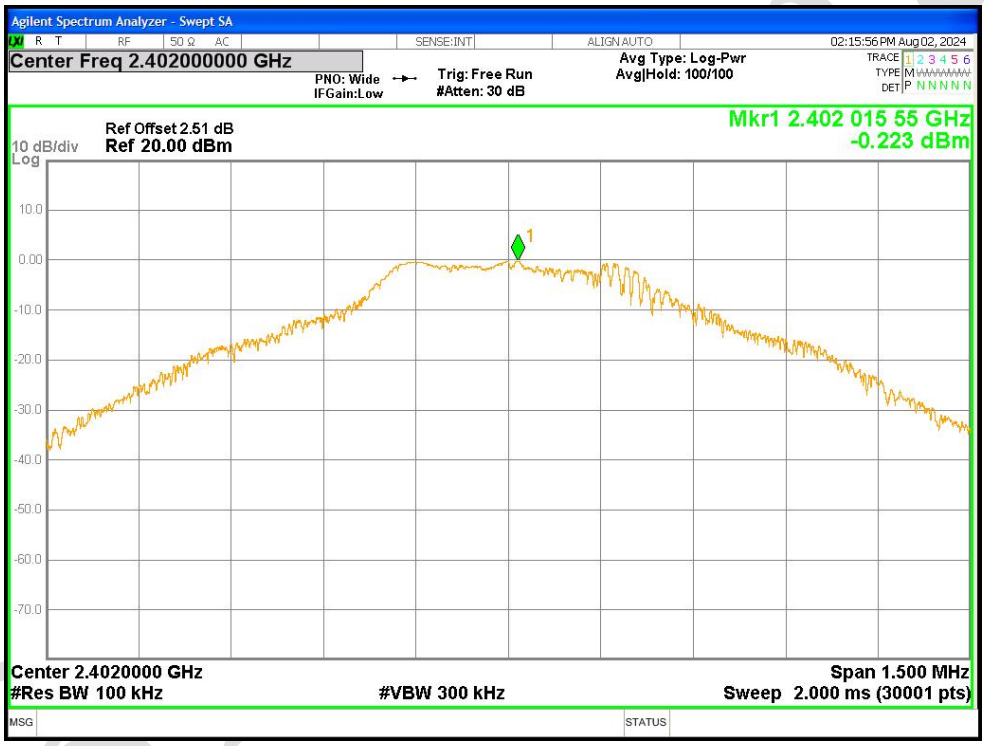
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission

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
02:41:59 PM Aug 02, 2024
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.476 0 GHz
-3.967 dBm
-24.00 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 2.476 0 GHz -3.967 dBm
2 N 1 f 2.483 5 GHz -55.785 dBm
3 N 1 f 2.500 0 GHz -55.970 dBm
4 N 1 f 2.483 9 GHz -52.598 dBm

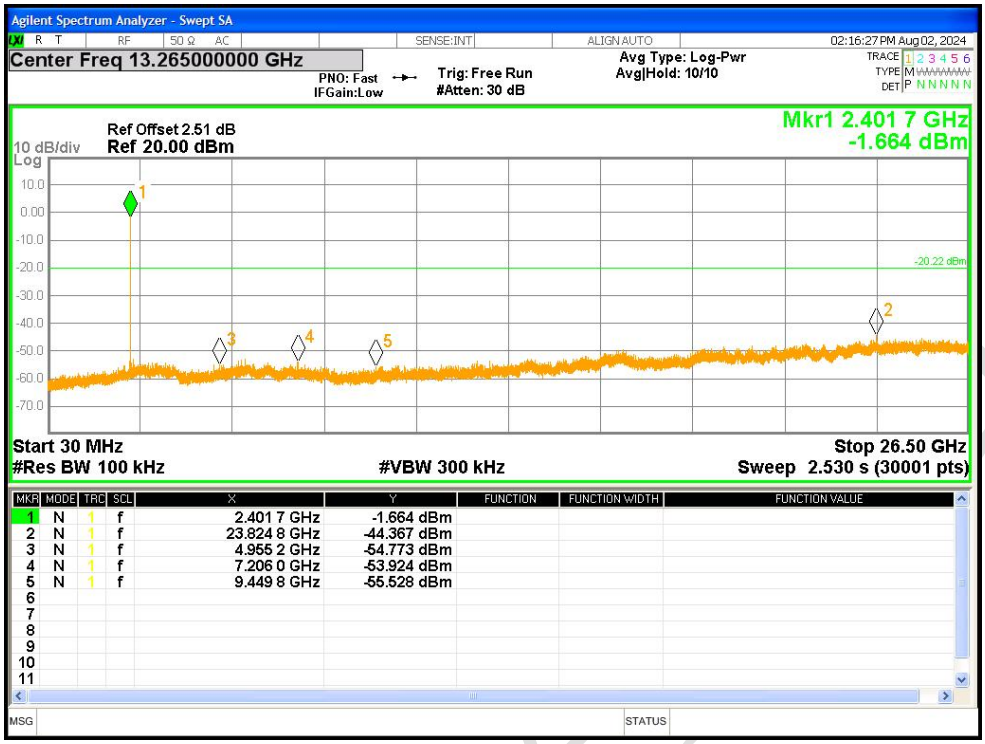
Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH1	2402	Ant1	-44.14	-20	Pass
NVNT	1-DH1	2441	Ant1	-42.74	-20	Pass
NVNT	1-DH1	2480	Ant1	-40.99	-20	Pass
NVNT	2-DH1	2402	Ant1	-43.64	-20	Pass
NVNT	2-DH1	2441	Ant1	-43.16	-20	Pass
NVNT	2-DH1	2480	Ant1	-40.52	-20	Pass

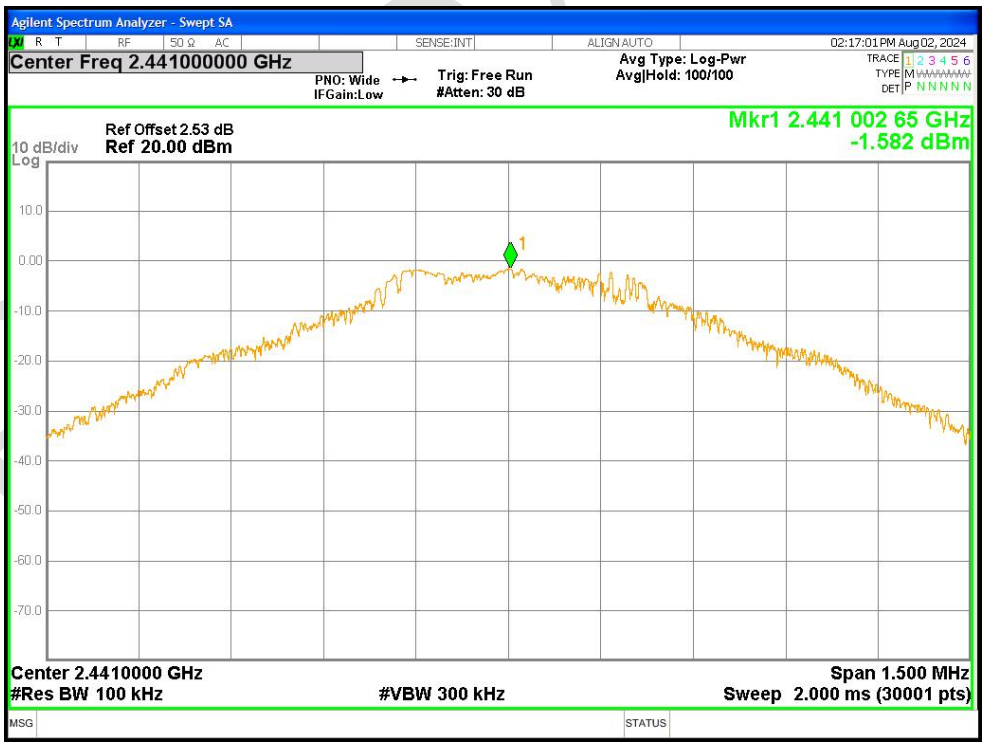
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Ref



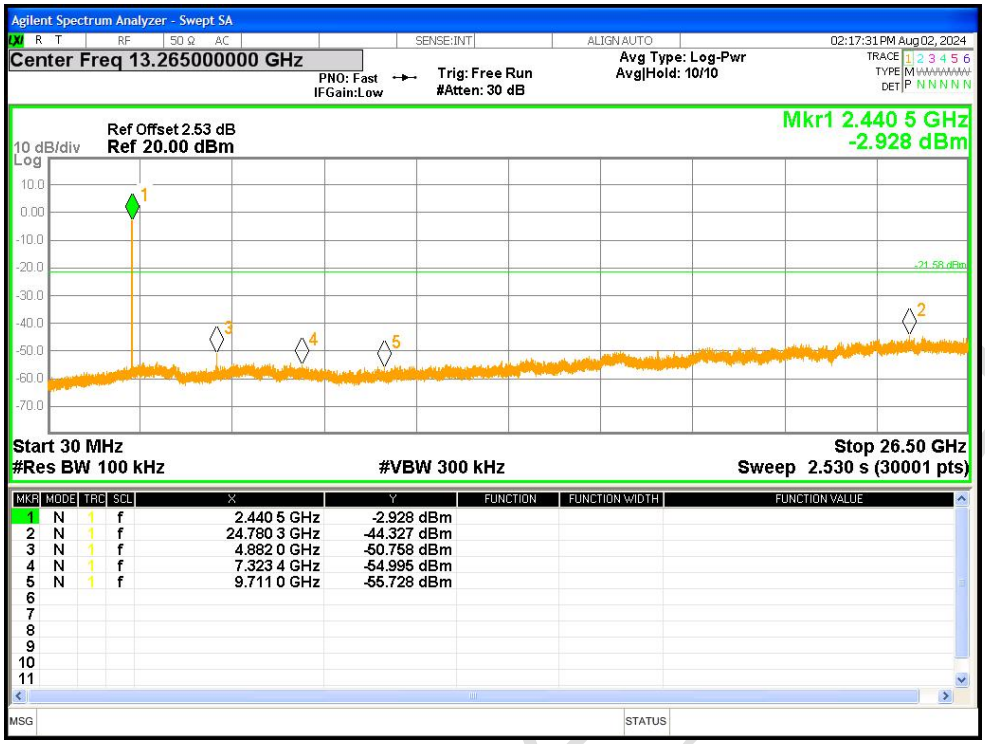
Tx. Spurious NVNT 1-DH1 2402MHz Ant1 Emission



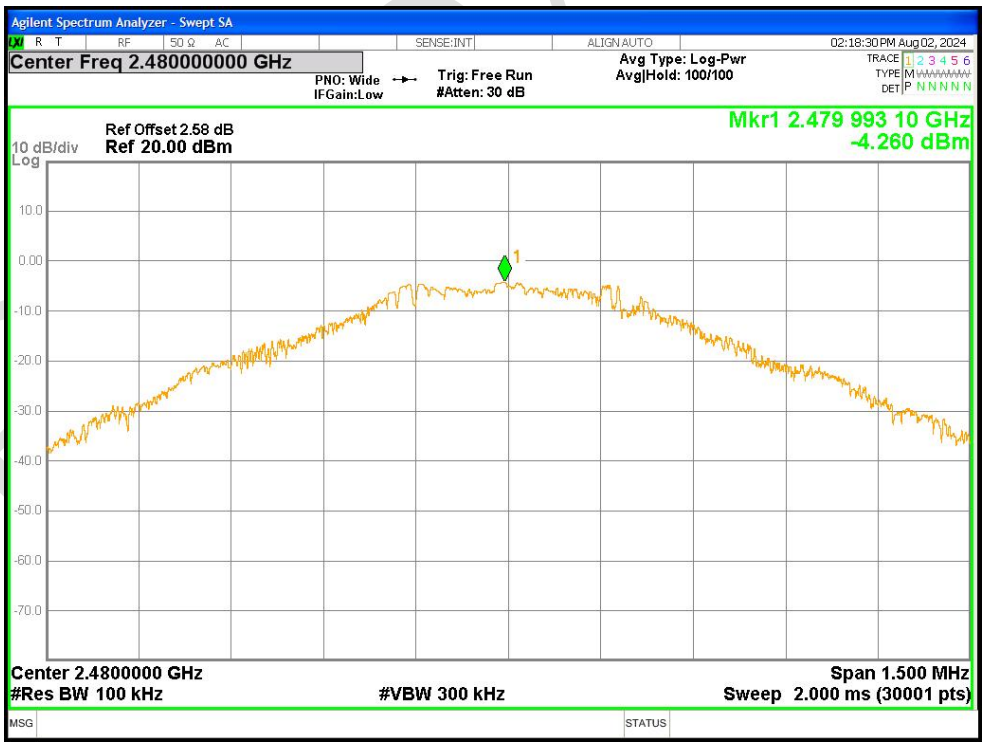
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Ref



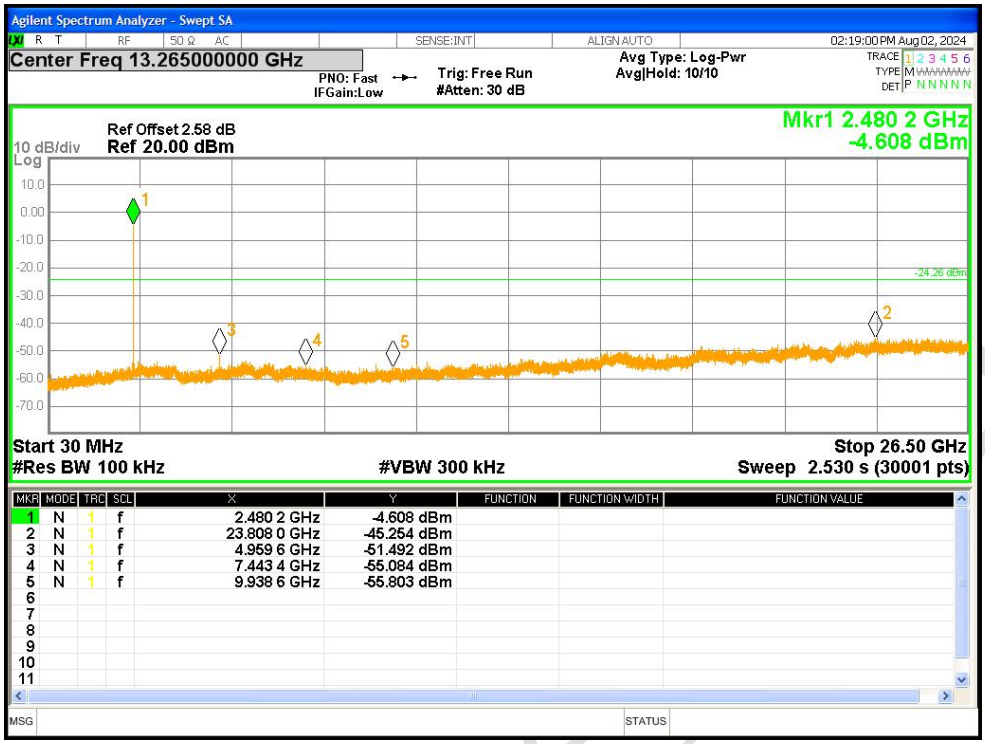
Tx. Spurious NVNT 1-DH1 2441MHz Ant1 Emission



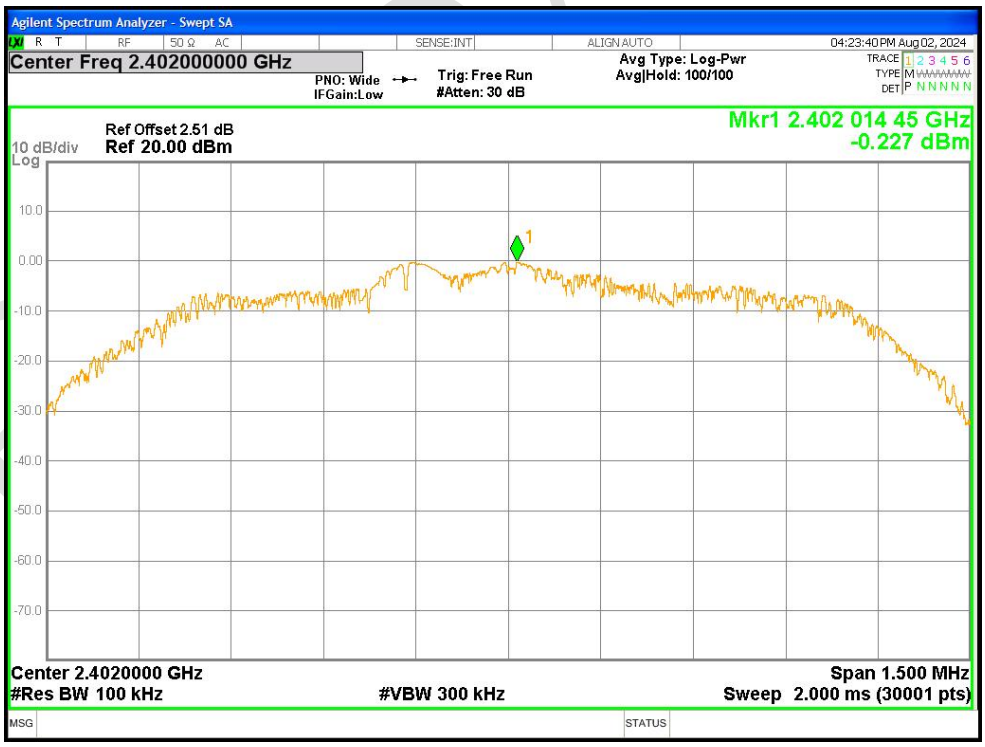
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Ref



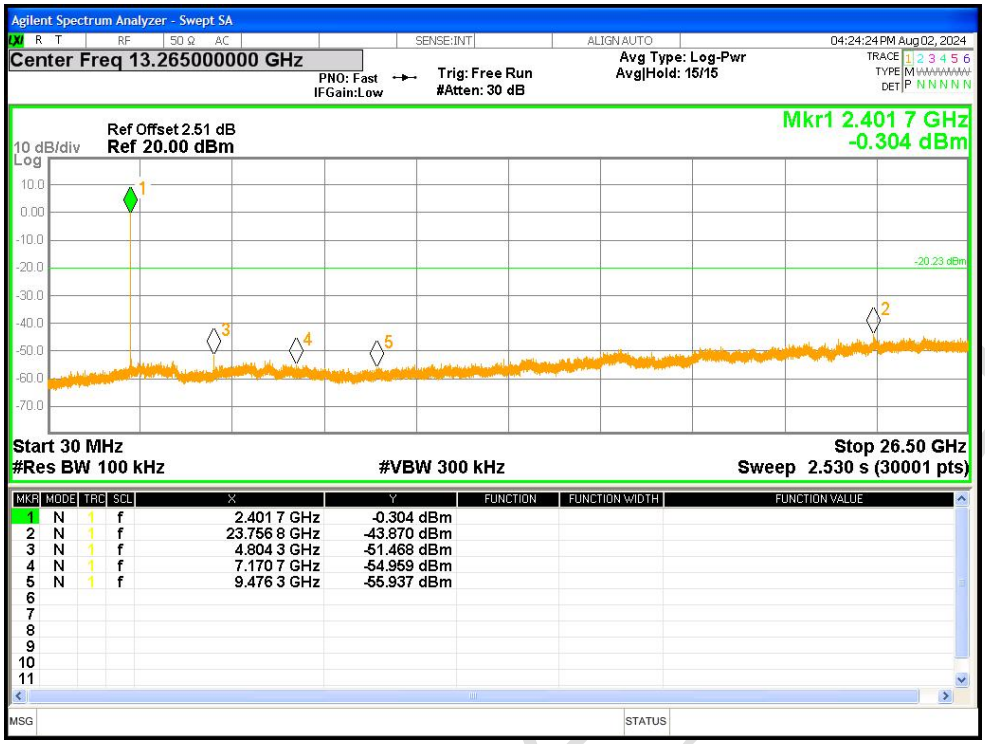
Tx. Spurious NVNT 1-DH1 2480MHz Ant1 Emission



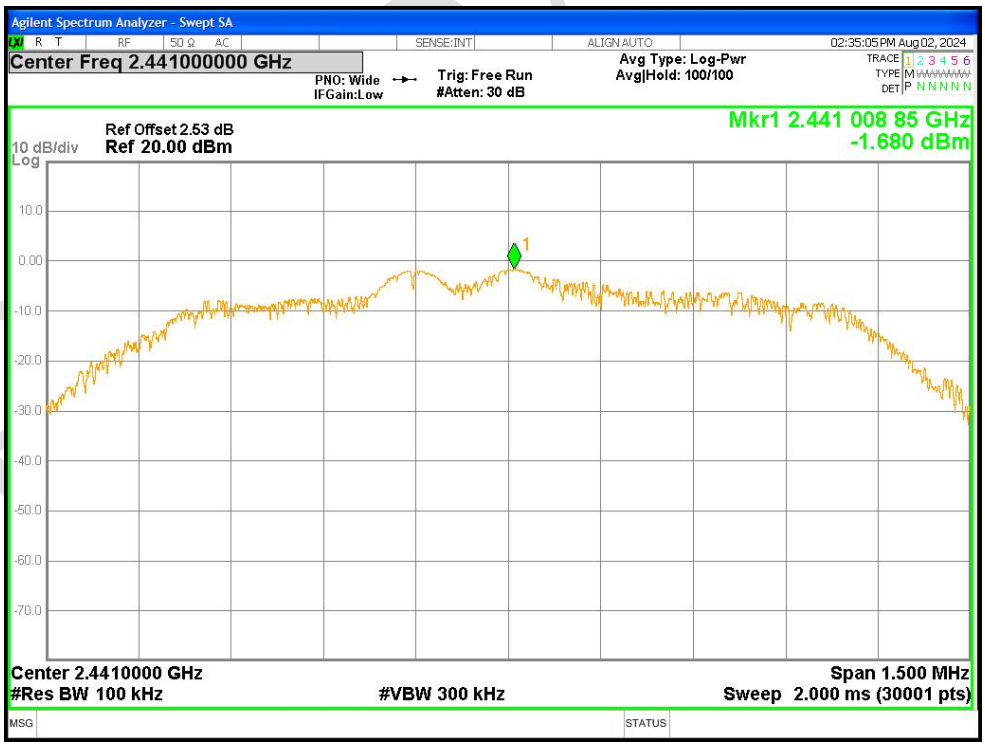
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Ref



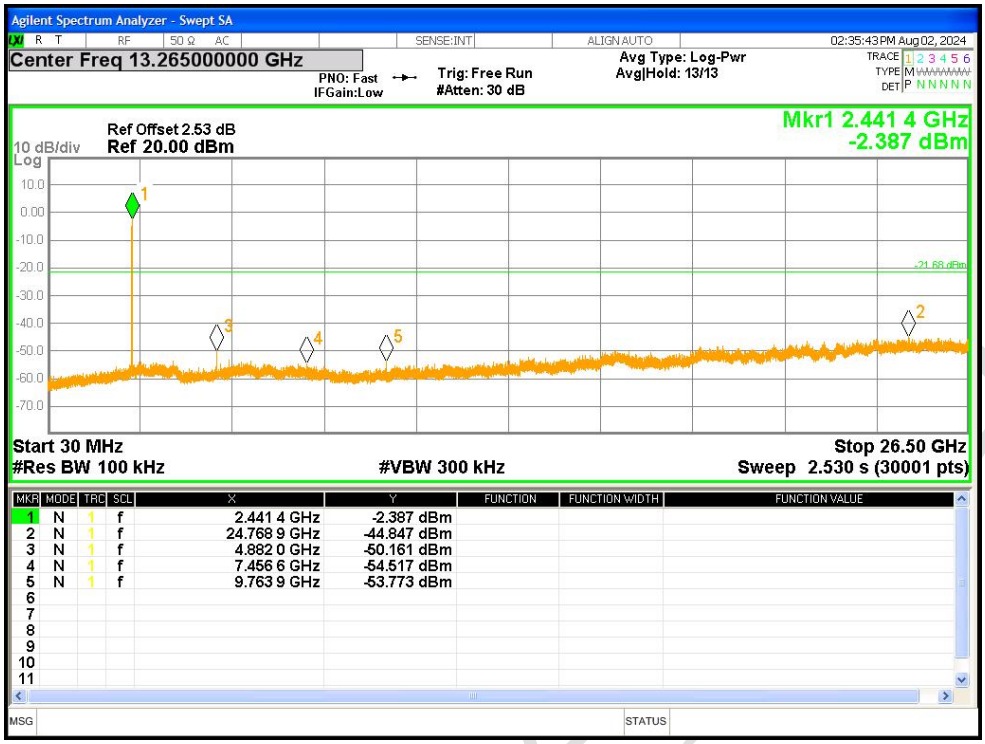
Tx. Spurious NVNT 2-DH1 2402MHz Ant1 Emission



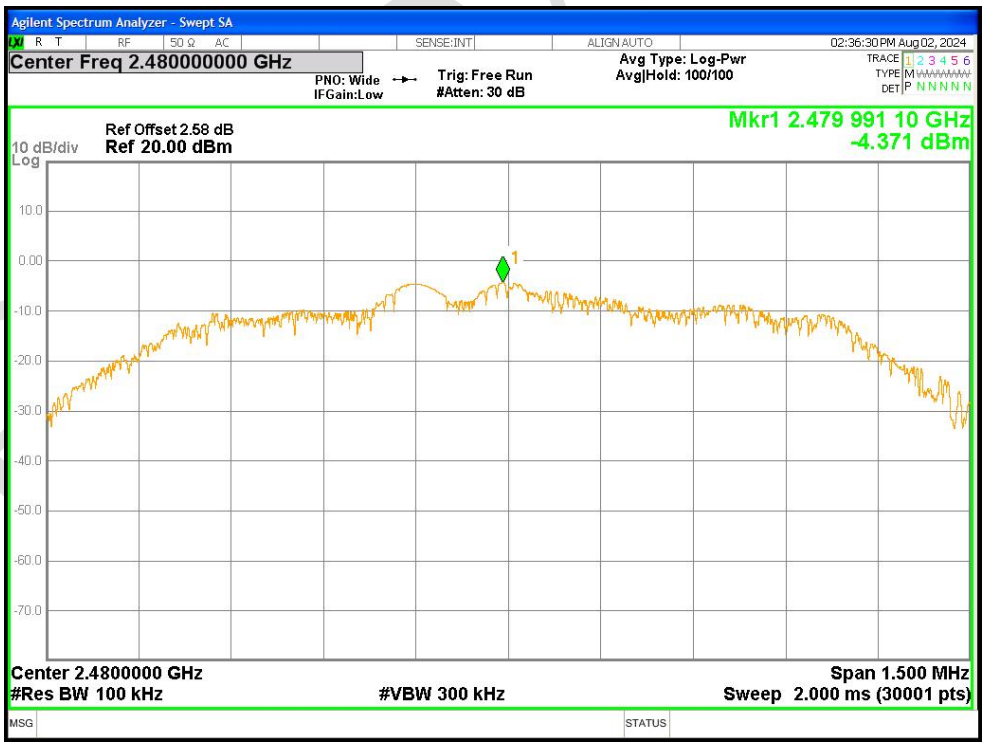
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Ref



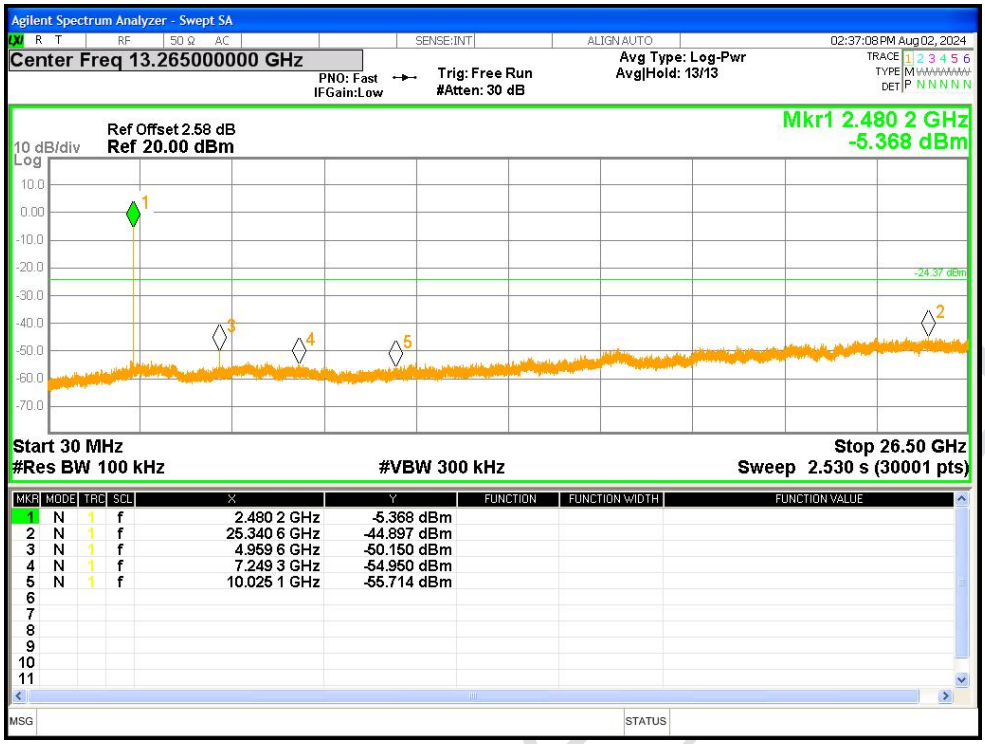
Tx. Spurious NVNT 2-DH1 2441MHz Ant1 Emission



Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Ref



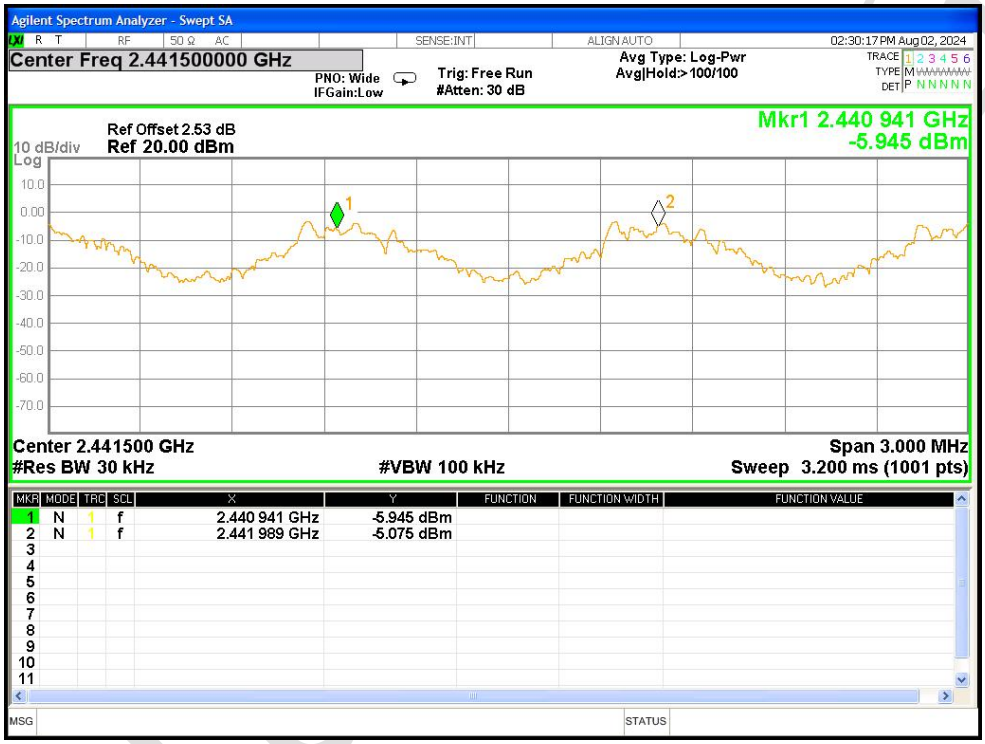
Tx. Spurious NVNT 2-DH1 2480MHz Ant1 Emission


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
02:37:08 PM Aug 02, 2024
Ref Offset 2.58 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.480 2 GHz
-5.368 dBm
-24.37 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 -5.368 dBm
2 N 1 f 25.340 6 GHz -44.897 dBm
3 N 1 f 4.959 6 GHz -50.150 dBm
4 N 1 f 7.249 3 GHz -54.950 dBm
5 N 1 f 10.025 1 GHz -55.714 dBm
MSG
STATUS

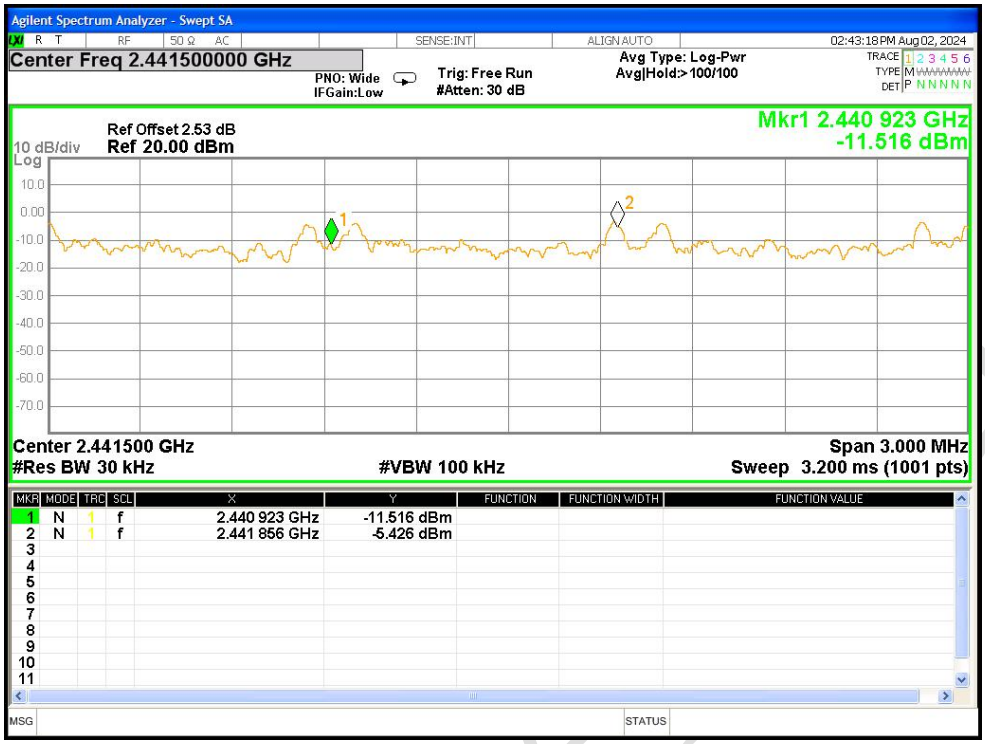
Carrier Frequencies Separation

Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH1	Ant1	2440.9405	2441.989	1.0485	1.015	Pass
NVNT	2-DH1	Ant1	2440.9225	2441.8555	0.933	0.848	Pass

CFS NVNT 1-DH1 2441MHz Ant1



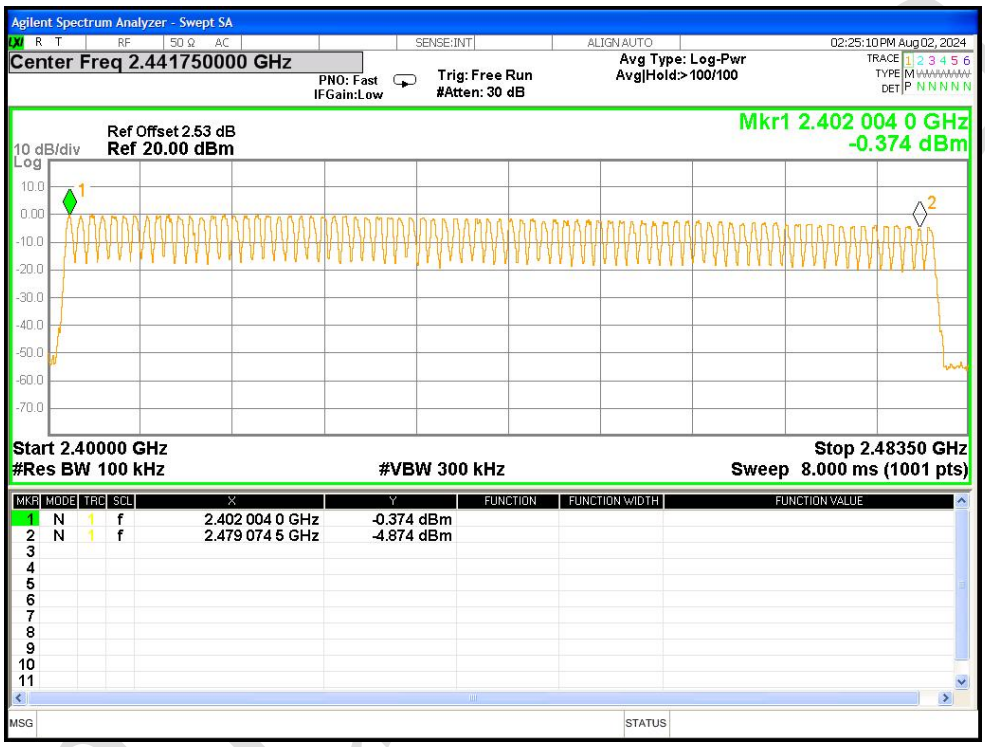
CFS NVNT 2-DH1 2441MHz Ant1


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
02:43:18 PM Aug 02, 2024
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.440 923 GHz
-11.516 dBm
Center 2.441500 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3.000 MHz
Sweep 3.200 ms (1001 pts)
1 N 1 f 2.440 923 GHz -11.516 dBm
2 N 1 f 2.441 856 GHz -5.426 dBm

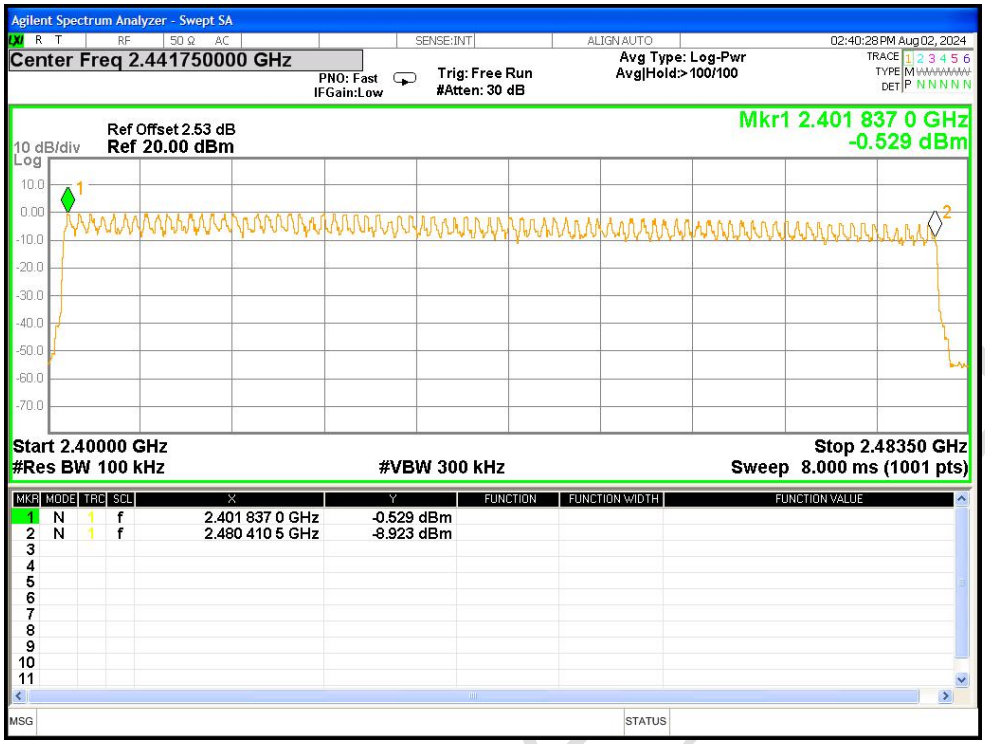
Number of Hopping Channel

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

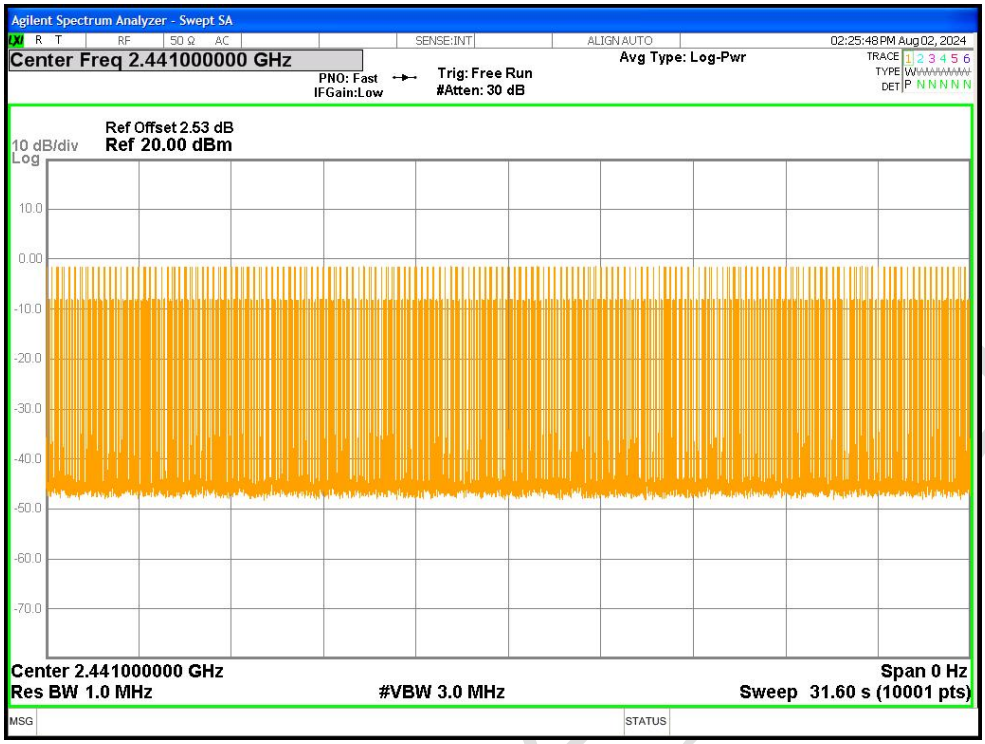

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441750000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
02:40:28 PM Aug 02, 2024
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.401 837 0 GHz
-0.529 dBm
Start 2.40000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 2.48350 GHz
Sweep 8.000 ms (1001 pts)
1 N 1 f 2.401 837 0 GHz -0.529 dBm
2 N 1 f 2.480 410 5 GHz -8.923 dBm

Dwell Time

Condition	Mode	Frequency (MHz)	Antenna	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
NVNT	1-DH1	2441	Ant1	0.384	121.728	317	31600	400	Pass
NVNT	1-DH3	2441	Ant1	1.638	258.804	158	31600	400	Pass
NVNT	1-DH5	2441	Ant1	2.887	323.344	112	31600	400	Pass
NVNT	2-DH5	2441	Ant1	2.892	303.66	105	31600	400	Pass

Dwell NVNT 1-DH1 2441MHz Ant1 One Burst

Dwell NVNT 1-DH1 2441MHz Ant1 Accumulated



Dwell NVNT 1-DH3 2441MHz Ant1 One Burst

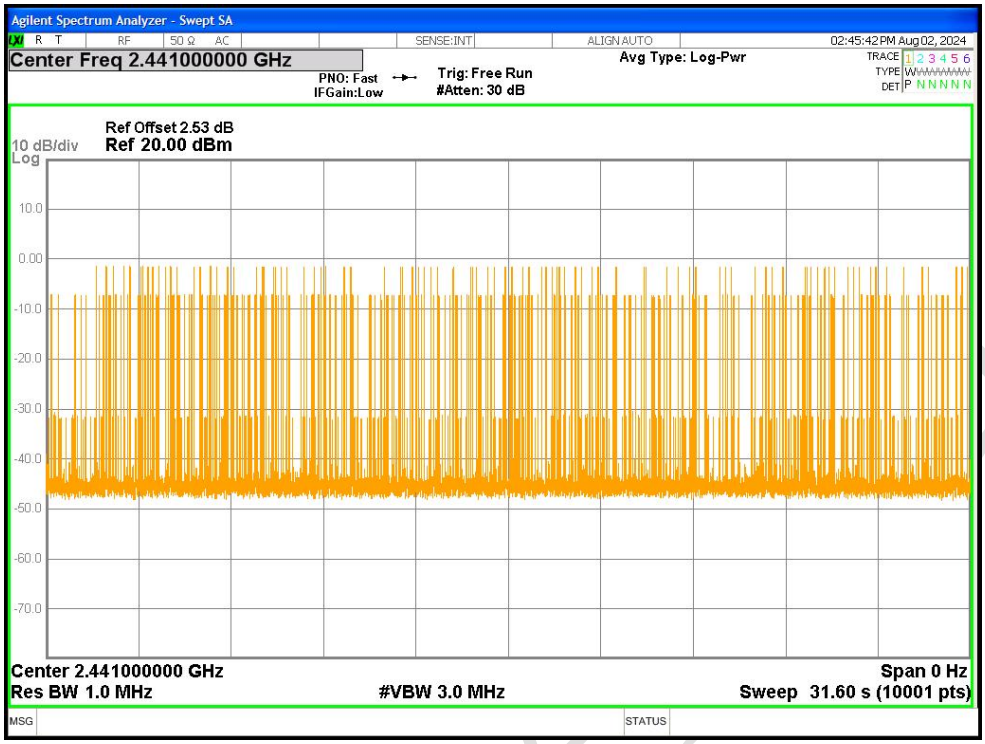
Dwell NVNT 1-DH3 2441MHz Ant1 Accumulated

Dwell NVNT 1-DH5 2441MHz Ant1 One Burst

Dwell NVNT 1-DH5 2441MHz Ant1 Accumulated

Dwell NVNT 2-DH5 2441MHz Ant1 One Burst

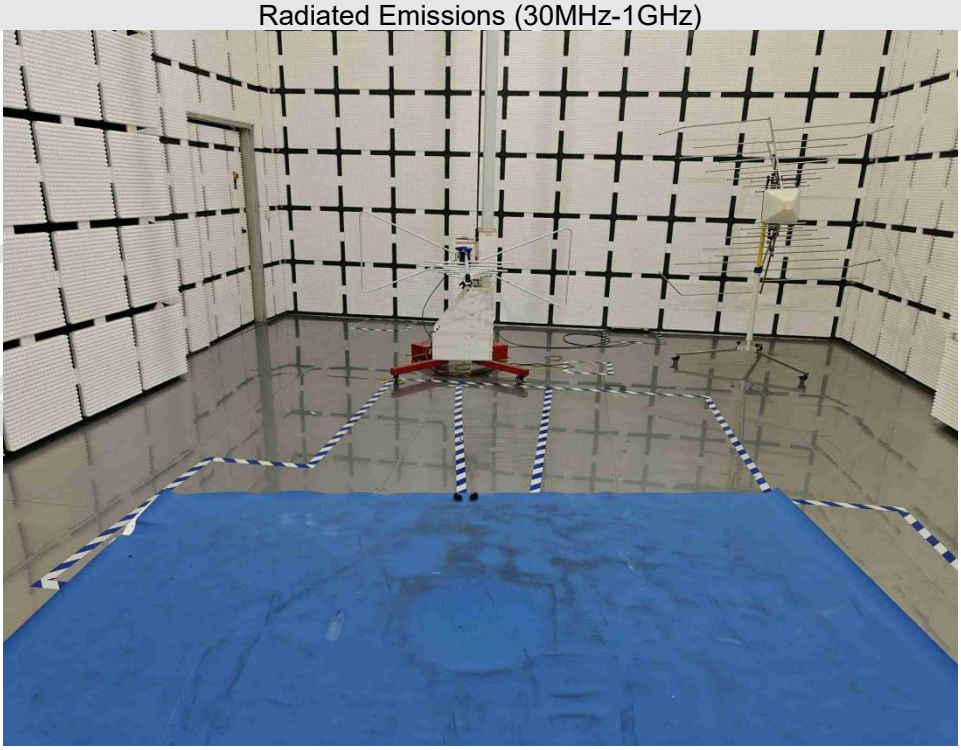
Dwell NVNT 2-DH5 2441MHz Ant1 Accumulated


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.441000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
02:45:42 PM Aug 02, 2024
Ref Offset 2.53 dB
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.441000000 GHz
Span 0 Hz
Res BW 1.0 MHz
#VBW 3.0 MHz
Sweep 31.60 s (10001 pts)

Appendix B: photographs of test setup

Conducted emissions at AC power line (150kHz-30MHz)

Radiated Emissions (30MHz-1GHz)



Radiated Emissions (above 1GHz)

BlueAsia

Appendix C: photographs of EUT

Reference to the test report no. BLA-EMC-202407-A11101

----END OF REPORT----

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