

8.3 -20dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Limit -20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.848	0	Pass
NVNT	1-DH5	2441	Ant1	0.802	0	Pass
NVNT	1-DH5	2480	Ant1	0.844	0	Pass
NVNT	2-DH5	2402	Ant1	1.276	0	Pass
NVNT	2-DH5	2441	Ant1	1.246	0	Pass
NVNT	2-DH5	2480	Ant1	1.252	0	Pass
NVNT	3-DH5	2402	Ant1	1.28	0	Pass
NVNT	3-DH5	2441	Ant1	1.284	0	Pass
NVNT	3-DH5	2480	Ant1	1.308	0	Pass

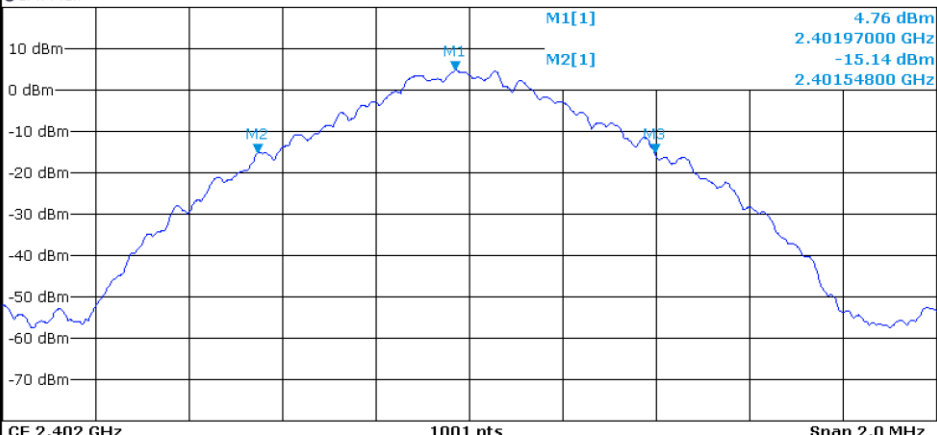
Test Graphs

-20dB Bandwidth NVNT 1-DH5 2402MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

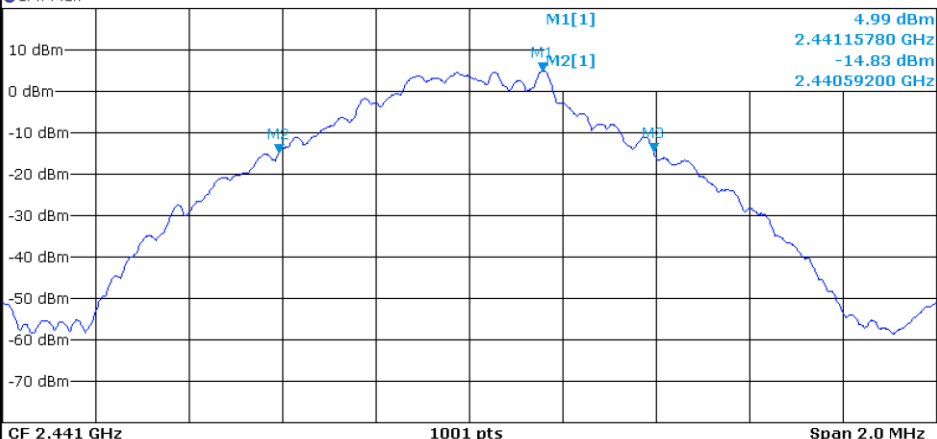
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40197 GHz	4.76 dBm		
M2	1		2.401548 GHz	-15.14 dBm		
M3	1		2.402396 GHz	-15.04 dBm		

-20dB Bandwidth NVNT 1-DH5 2441MHz Ant1

Spectrum

Ref Level 20.00 dBm Offset 2.39 dB RBW 30 kHz
Att 35 dB SWT 63.3 μ s VBW 100 kHz Mode Auto FFT
SGL Count 100/100

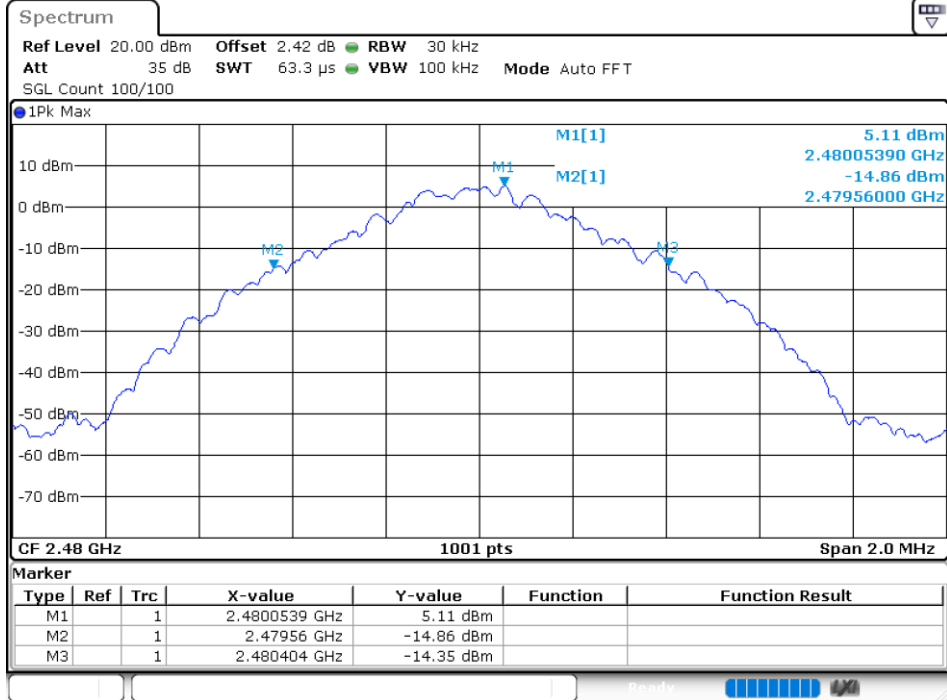
1Pk Max



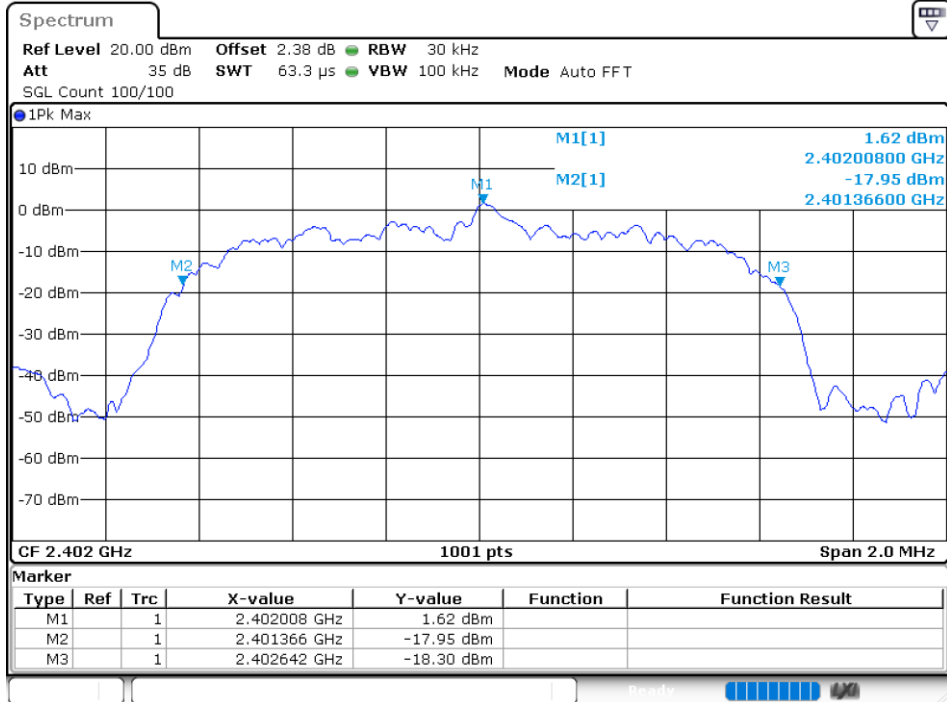
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.4411578 GHz	4.99 dBm		
M2	1		2.440592 GHz	-14.83 dBm		
M3	1		2.441394 GHz	-14.61 dBm		

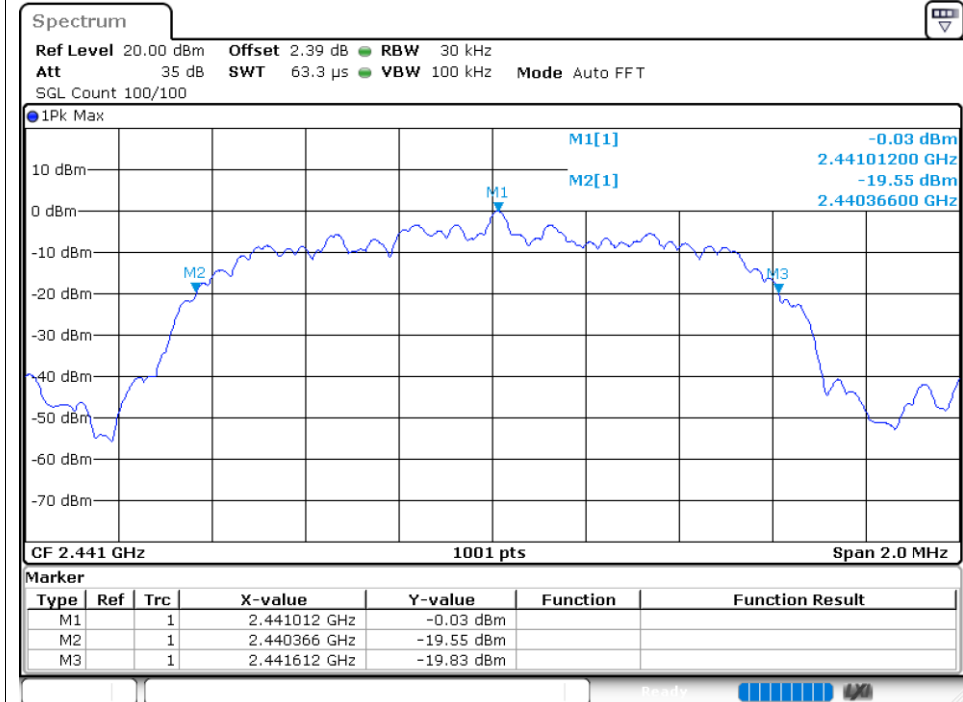
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



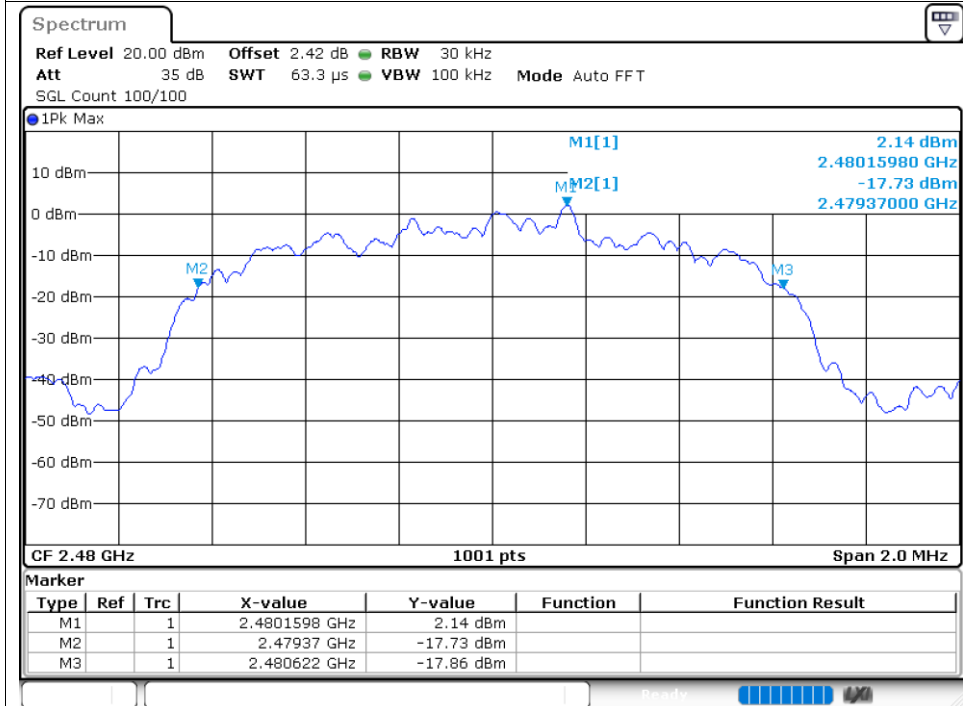
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



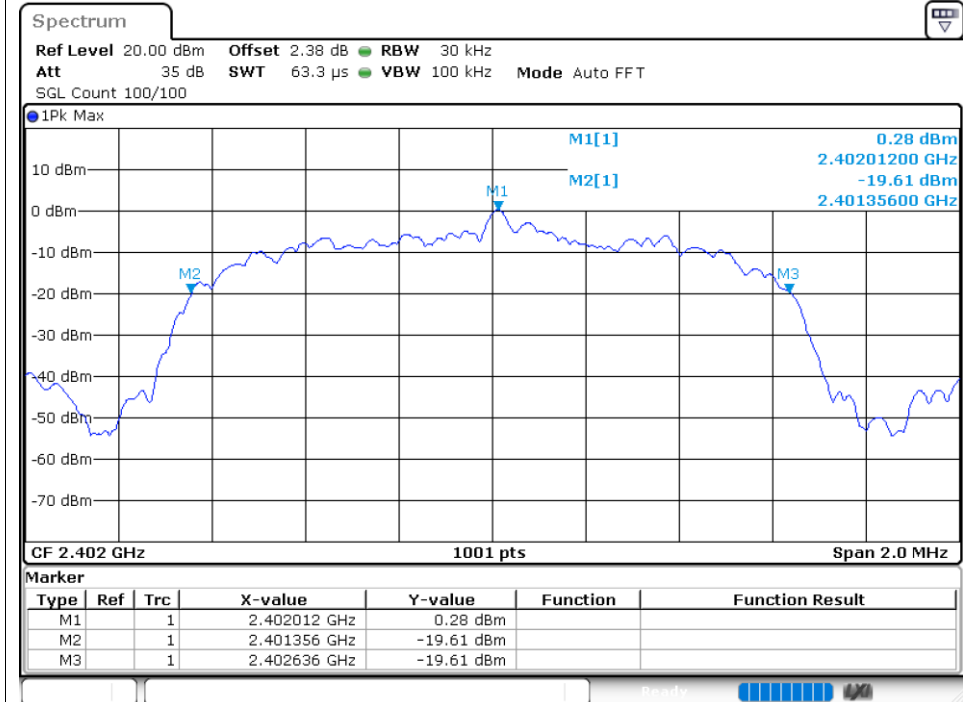
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



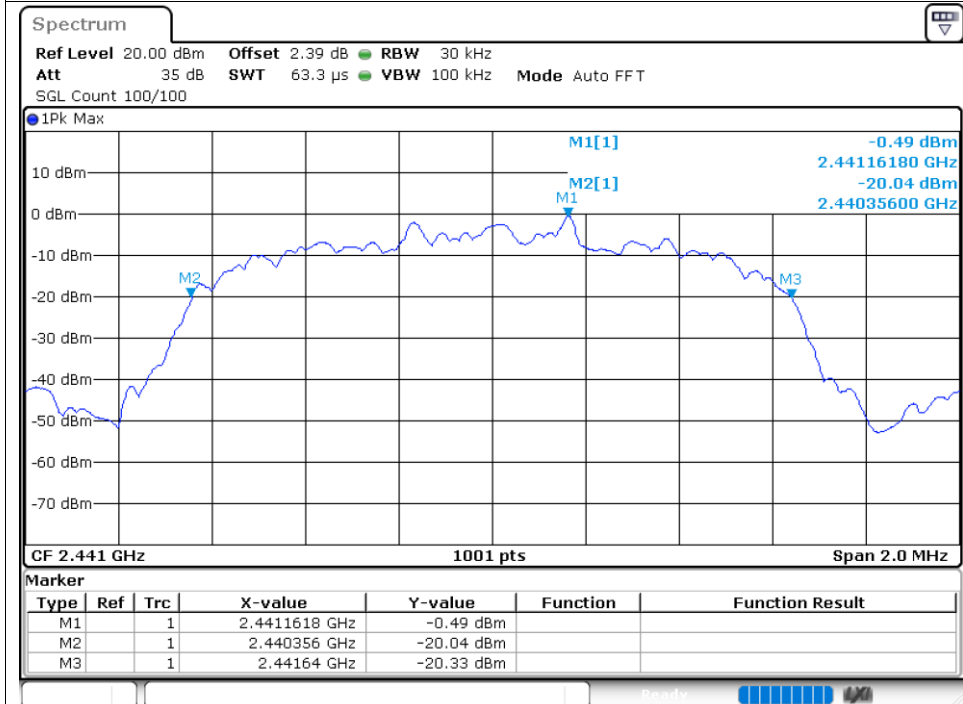
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

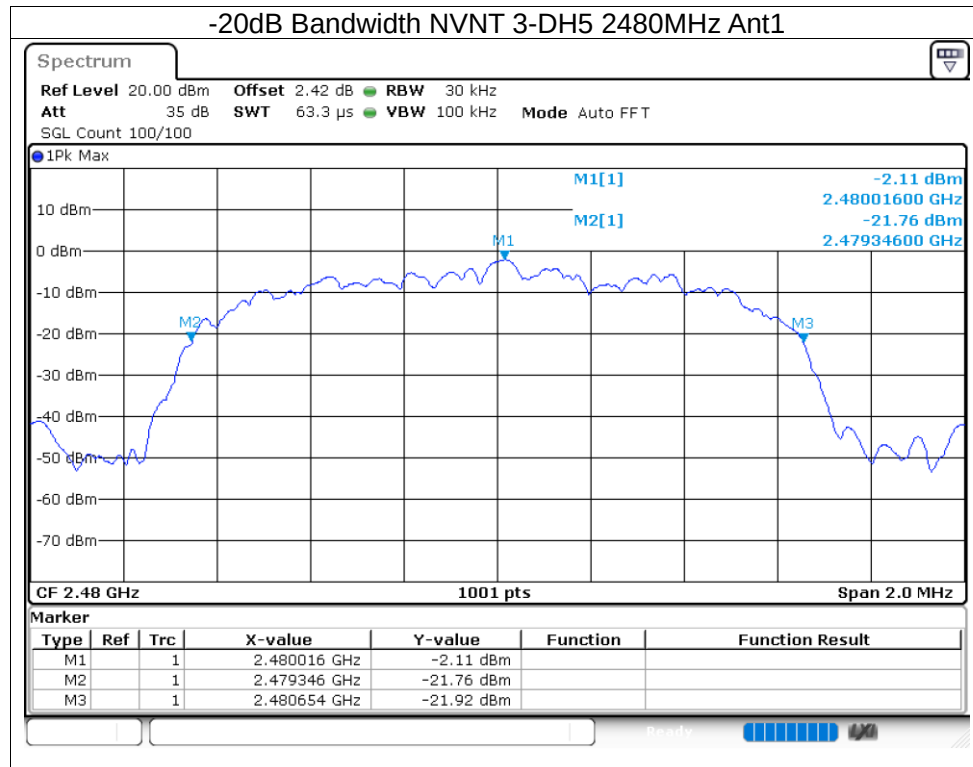


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1

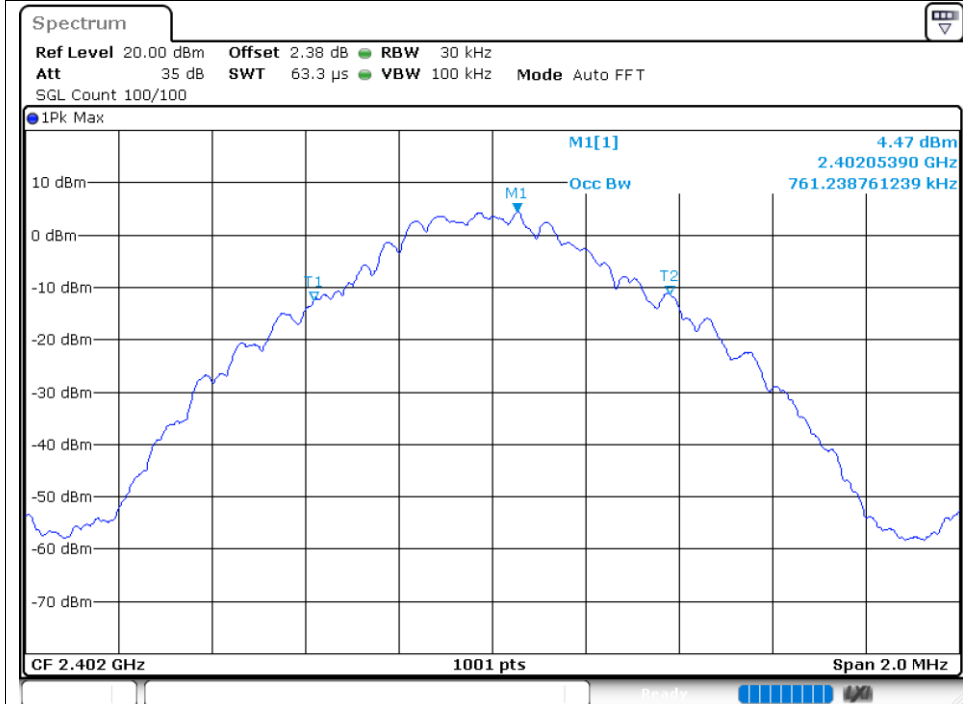




8.4 Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.761
NVNT	1-DH5	2441	Ant1	0.757
NVNT	1-DH5	2480	Ant1	0.765
NVNT	2-DH5	2402	Ant1	1.189
NVNT	2-DH5	2441	Ant1	1.151
NVNT	2-DH5	2480	Ant1	1.149
NVNT	3-DH5	2402	Ant1	1.175
NVNT	3-DH5	2441	Ant1	1.165
NVNT	3-DH5	2480	Ant1	1.169

Test Graphs OBW NVNT 1-DH5 2402MHz Ant1



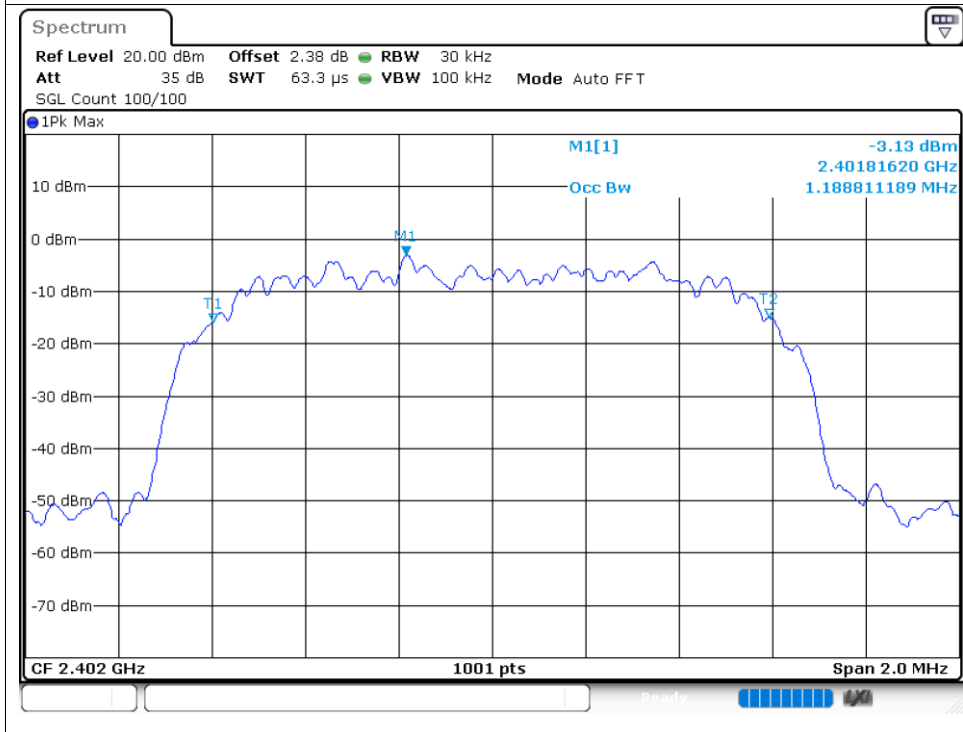
OBW NVNT 1-DH5 2441MHz Ant1



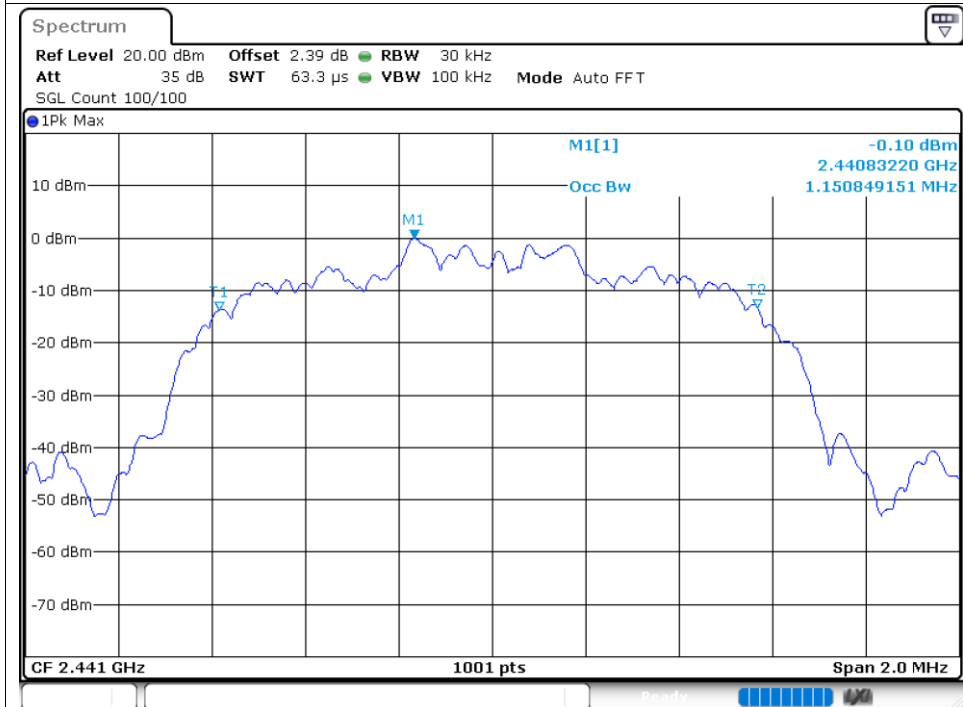
OBW NVNT 1-DH5 2480MHz Ant1



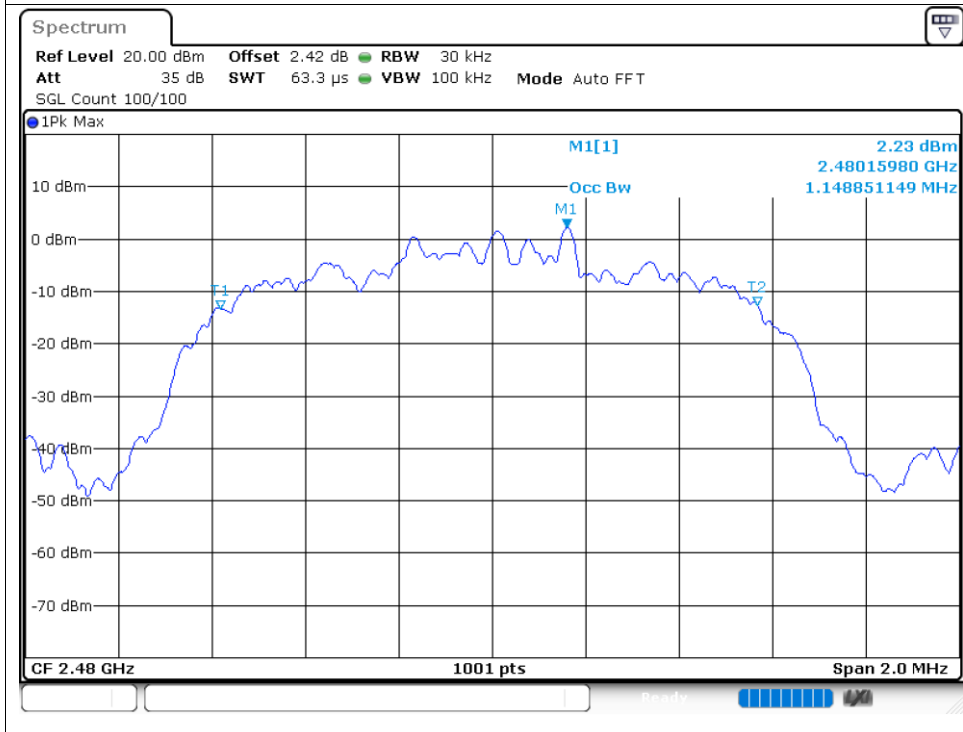
OBW NVNT 2-DH5 2402MHz Ant1



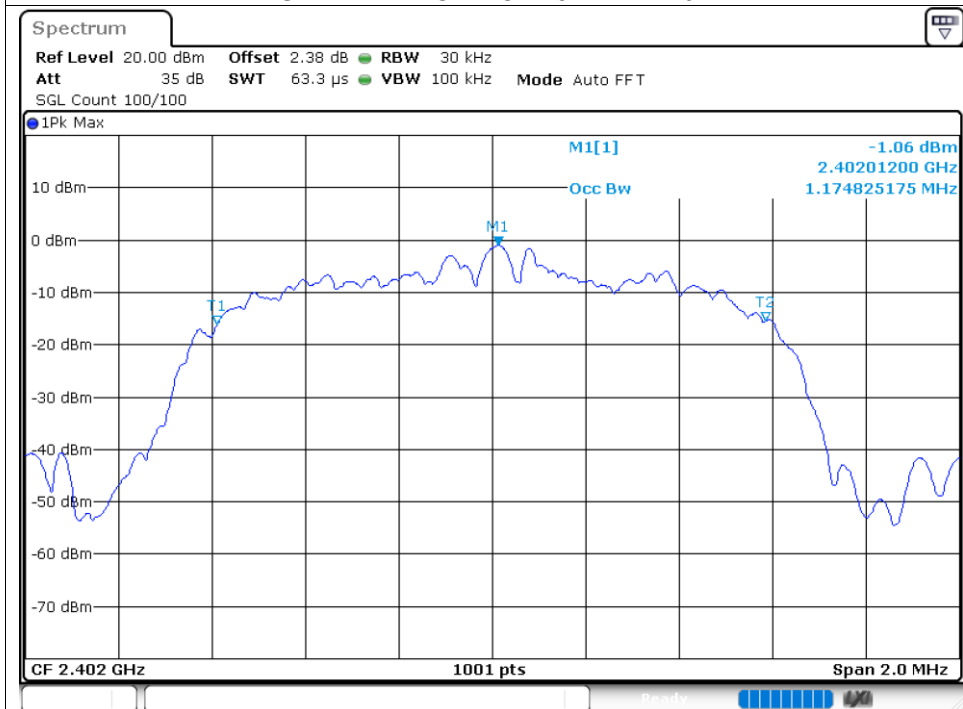
OBW NVNT 2-DH5 2441MHz Ant1



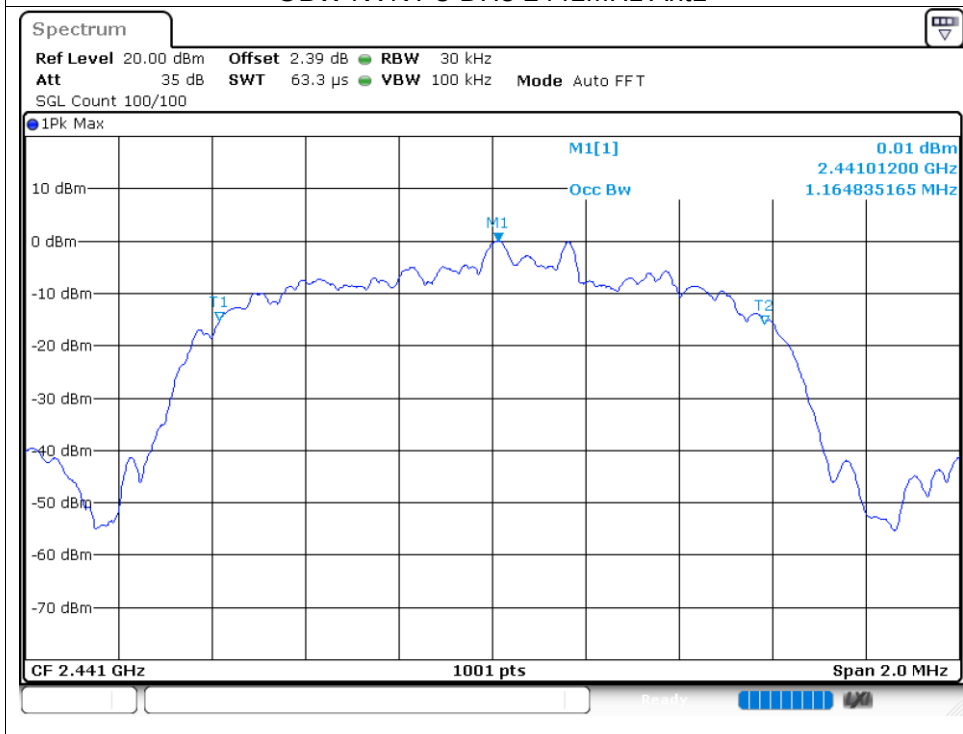
OBW NVNT 2-DH5 2480MHz Ant1

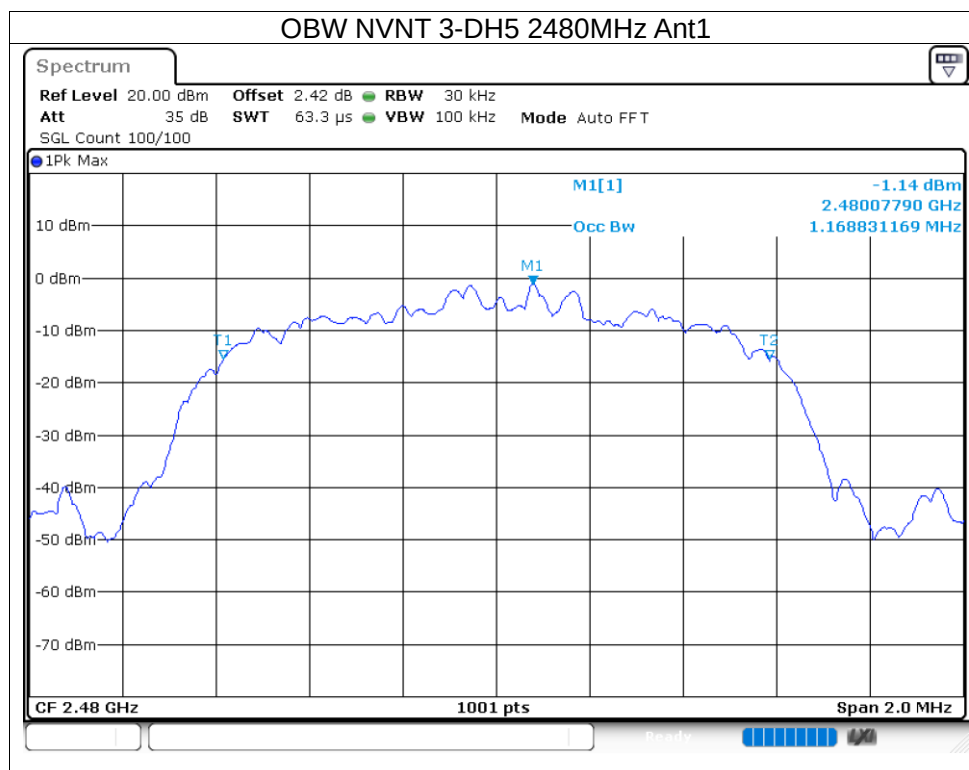


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



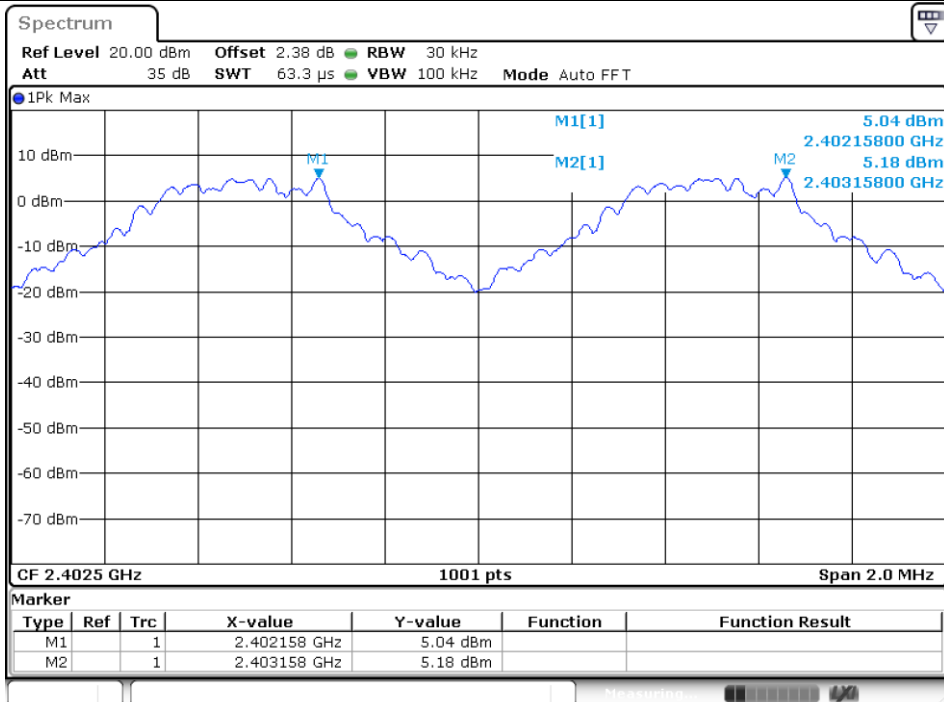


8.5 Carrier Frequencies Separation

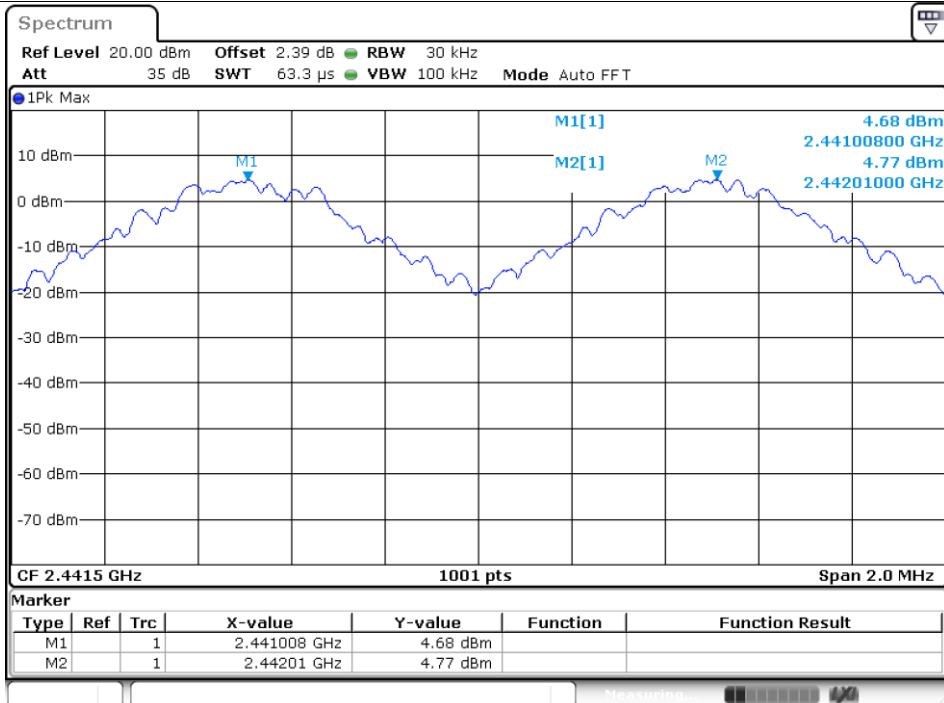
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.158	2403.158	1	0.565	Pass
NVNT	1-DH5	Ant1	2441.008	2442.01	1.002	0.535	Pass
NVNT	1-DH5	Ant1	2479.052	2480.054	1.002	0.563	Pass
NVNT	2-DH5	Ant1	2402.02	2403.16	1.14	0.851	Pass
NVNT	2-DH5	Ant1	2441.006	2442.073	1.067	0.831	Pass
NVNT	2-DH5	Ant1	2478.97	2480.158	1.188	0.835	Pass
NVNT	3-DH5	Ant1	2402.01	2403.16	1.15	0.853	Pass
NVNT	3-DH5	Ant1	2441.007	2441.977	0.97	0.856	Pass
NVNT	3-DH5	Ant1	2479.076	2480.022	0.946	0.872	Pass

Test Graphs

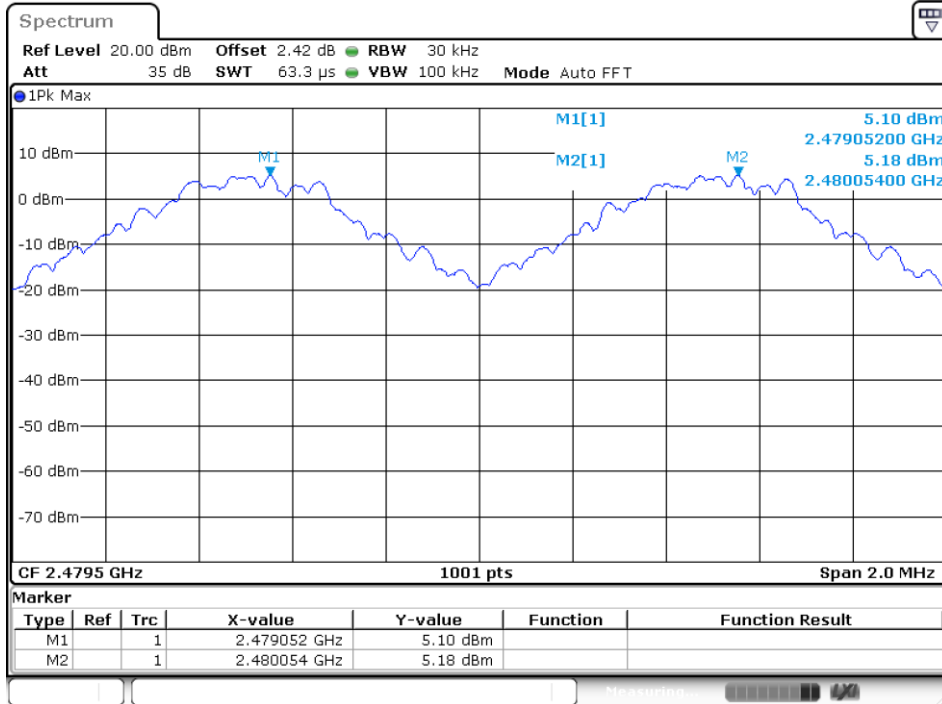
CFS NVNT 1-DH5 2402MHz Ant1



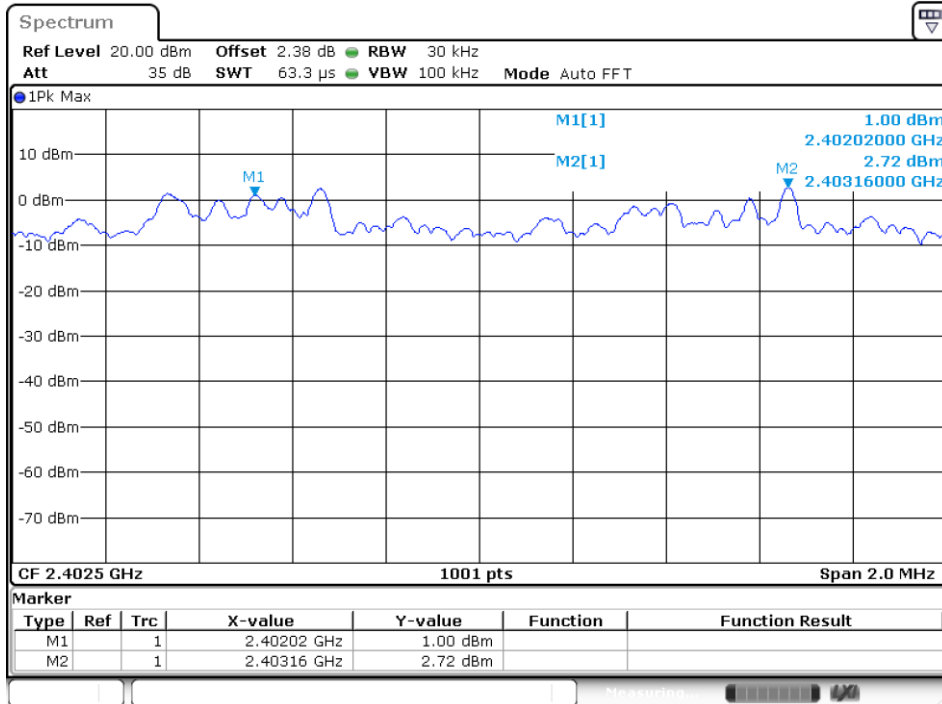
CFS NVNT 1-DH5 2441MHz Ant1



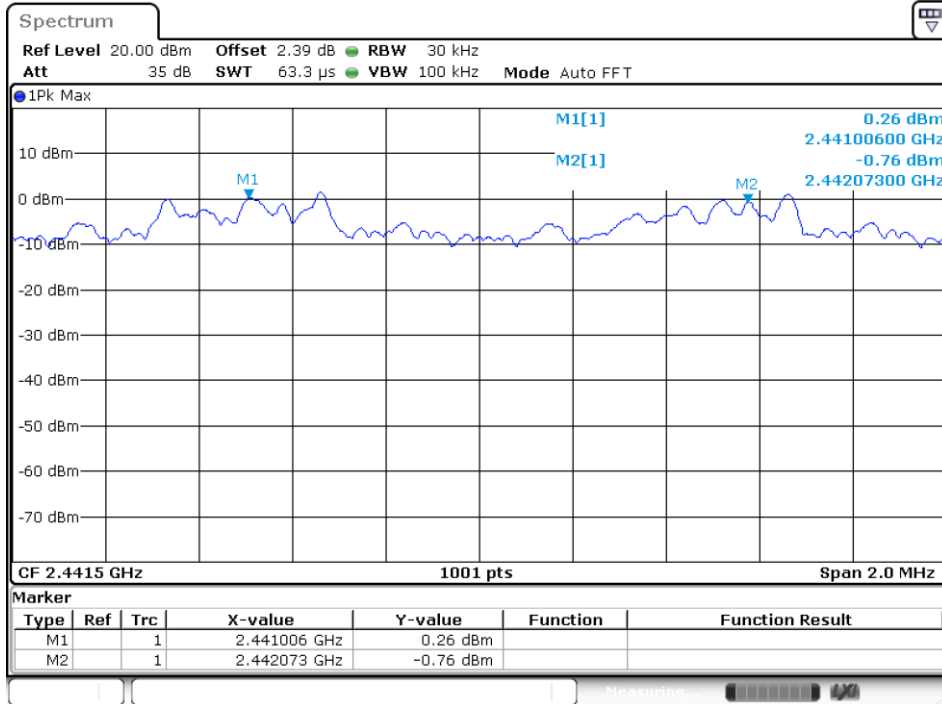
CFS NVNT 1-DH5 2480MHz Ant1



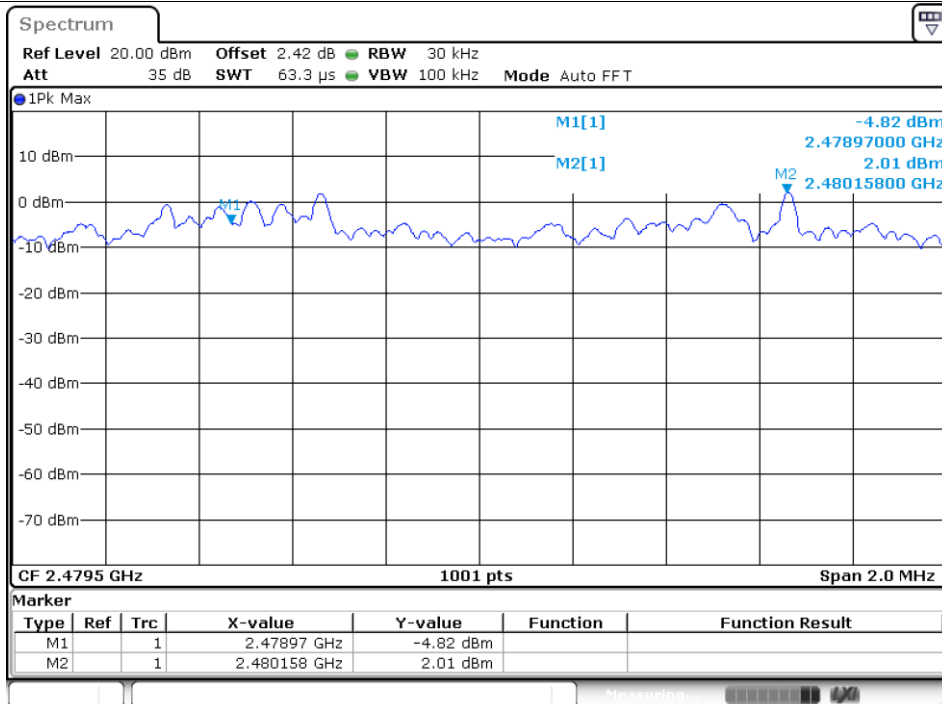
CFS NVNT 2-DH5 2402MHz Ant1



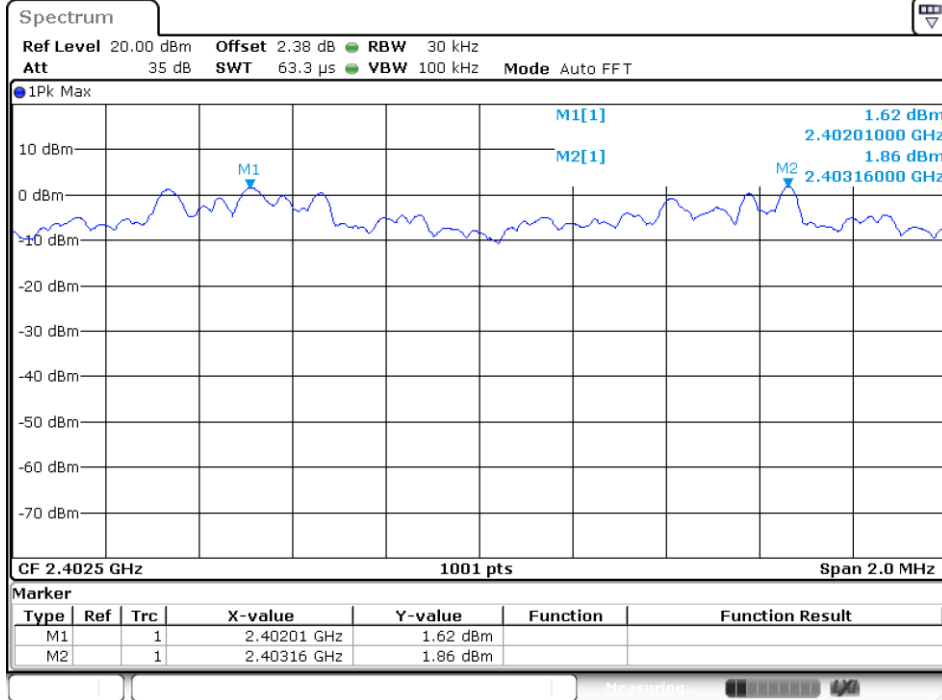
CFS NVNT 2-DH5 2441MHz Ant1



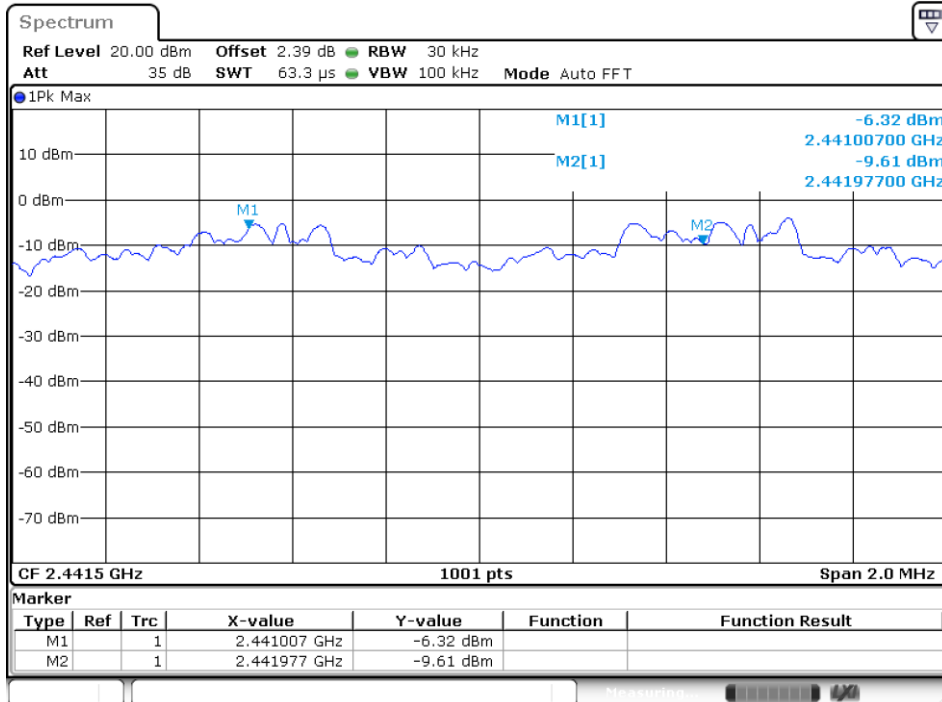
CFS NVNT 2-DH5 2480MHz Ant1

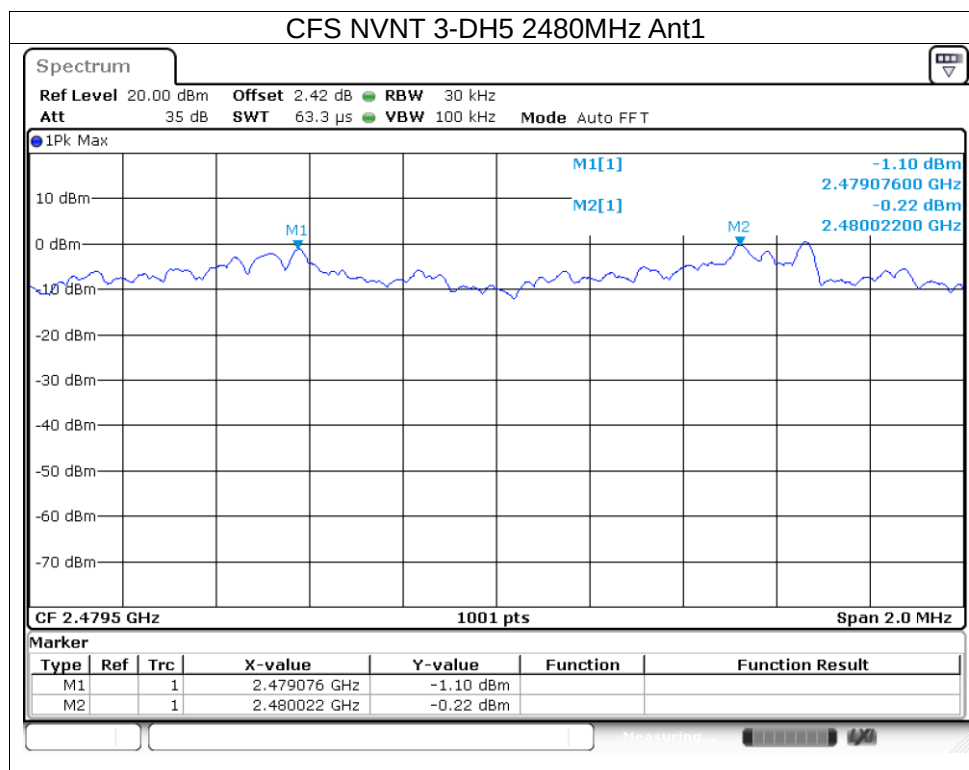


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



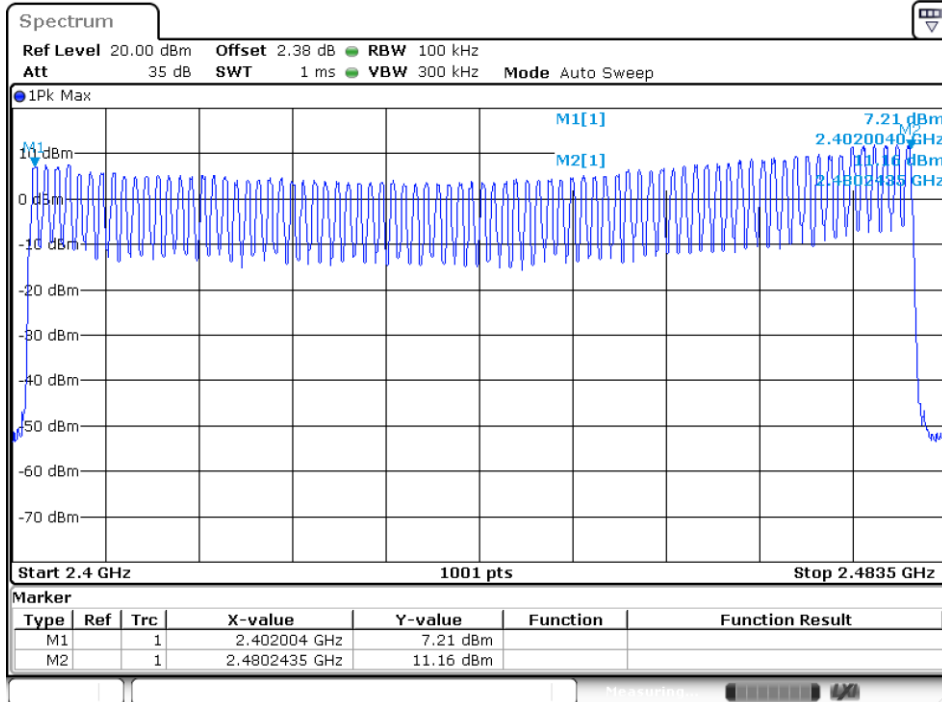


8.6 Number of Hopping Channel

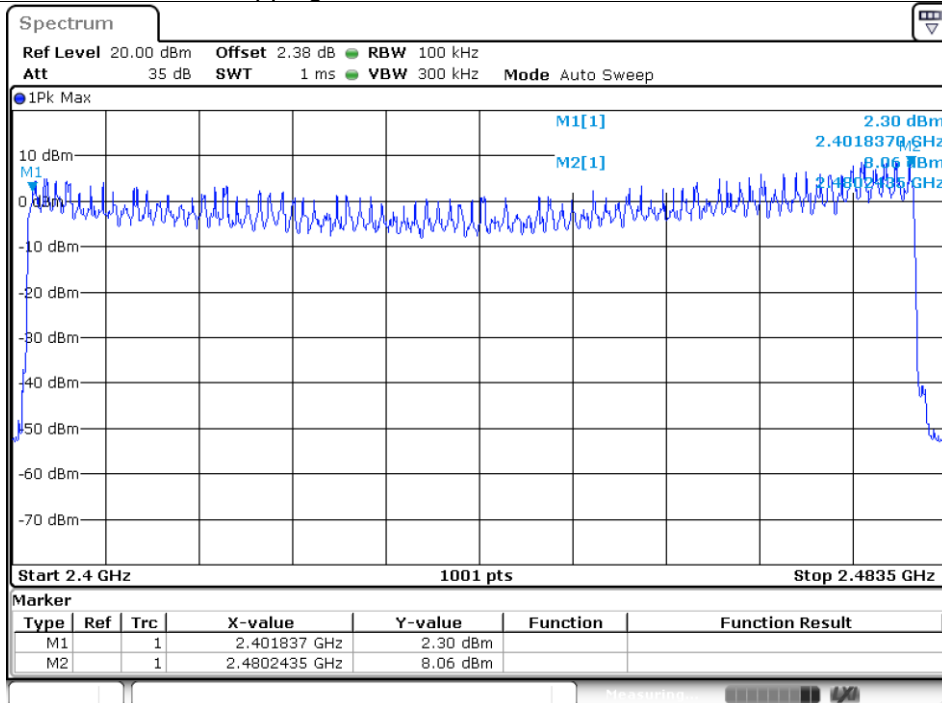
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

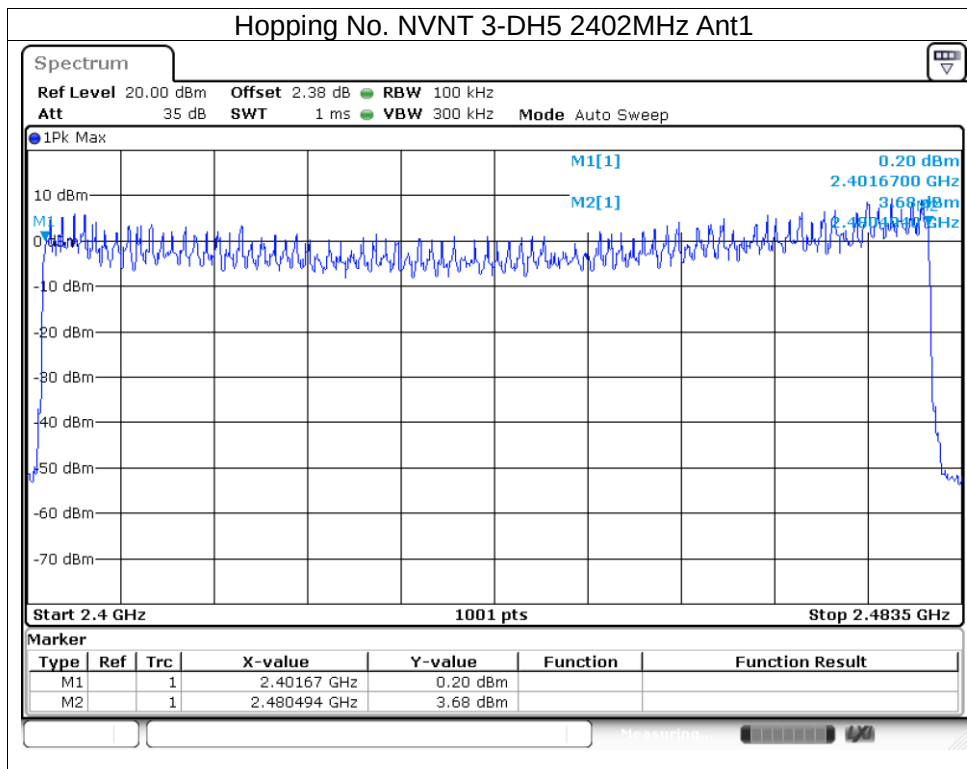
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



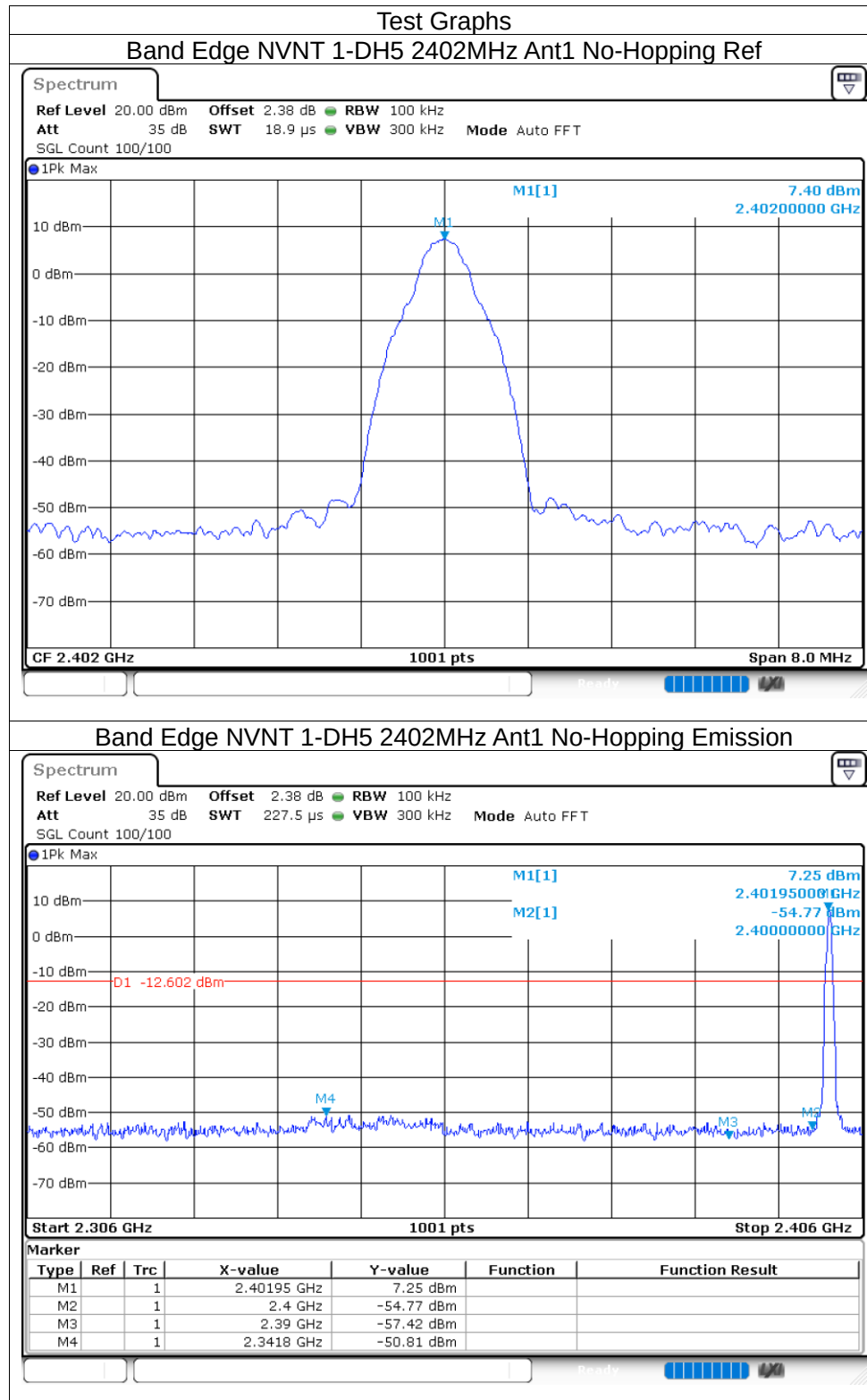
Hopping No. NVNT 2-DH5 2402MHz Ant1





8.7 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-58.2	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-59.42	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-56.24	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-56.81	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-53.23	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-56.81	-20	Pass

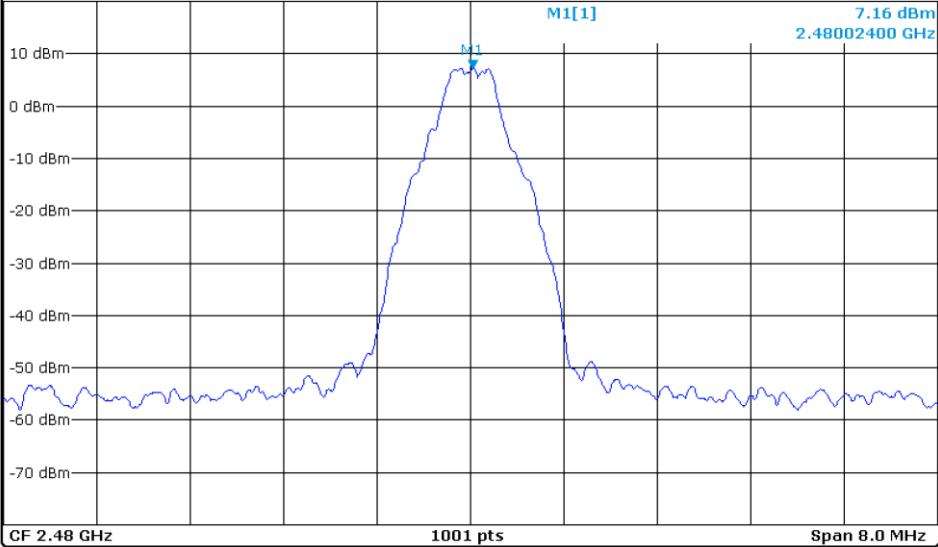


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

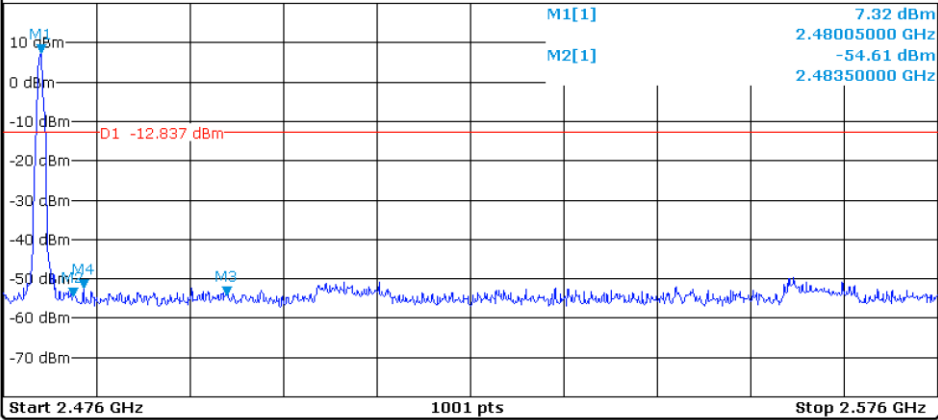


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

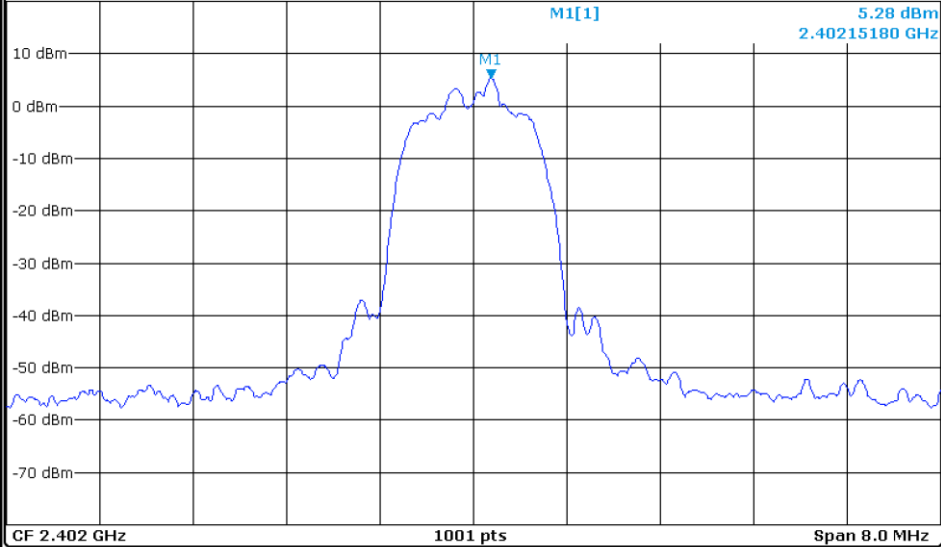
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.48005 GHz	7.32 dBm		
M2	1		2.4835 GHz	-54.61 dBm		
M3	1		2.5 GHz	-54.11 dBm		
M4	1		2.4846 GHz	-52.26 dBm		

Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

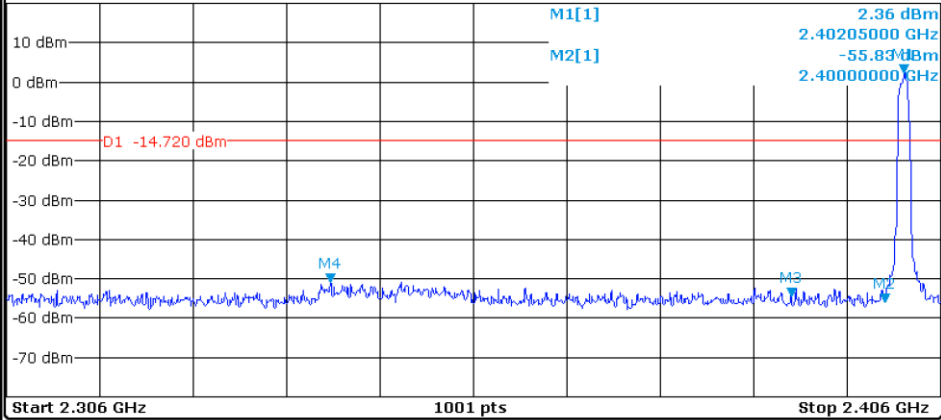


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

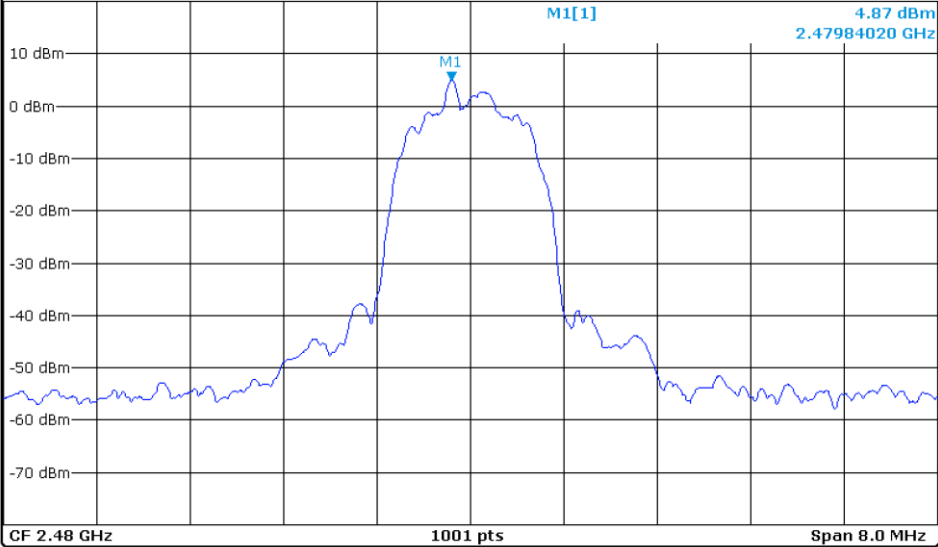
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	2.36 dBm		
M2		1	2.4 GHz	-55.83 dBm		
M3		1	2.39 GHz	-54.59 dBm		
M4		1	2.3407 GHz	-50.96 dBm		

Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

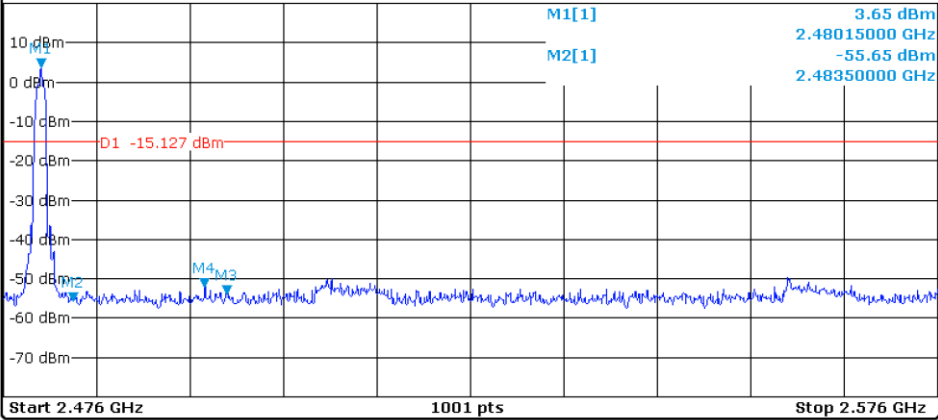


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

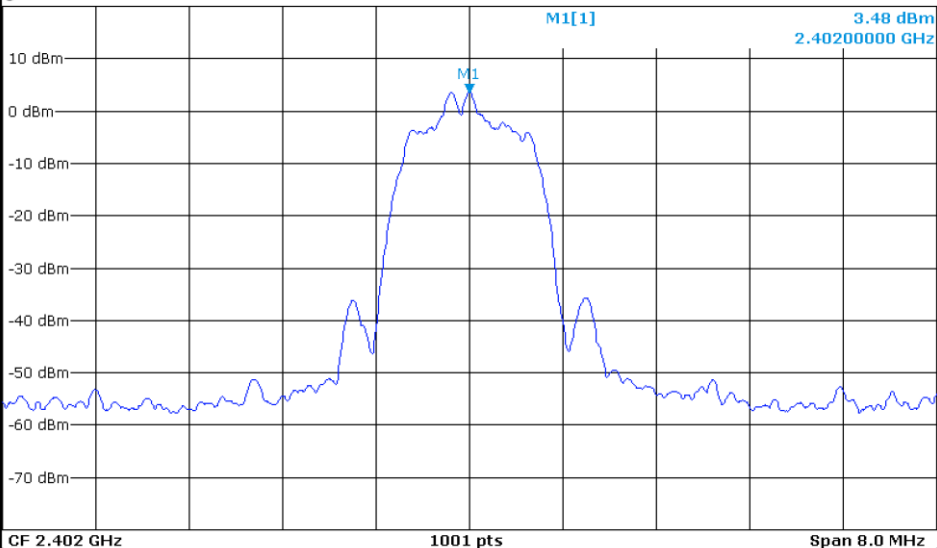
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.48015 GHz	3.65 dBm		
M2	1		2.4835 GHz	-55.65 dBm		
M3	1		2.5 GHz	-53.84 dBm		
M4	1		2.4976 GHz	-51.95 dBm		

Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

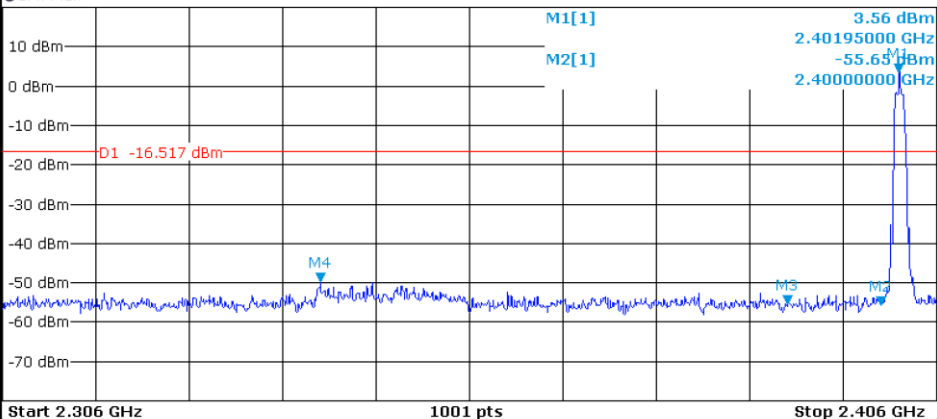


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max



Marker

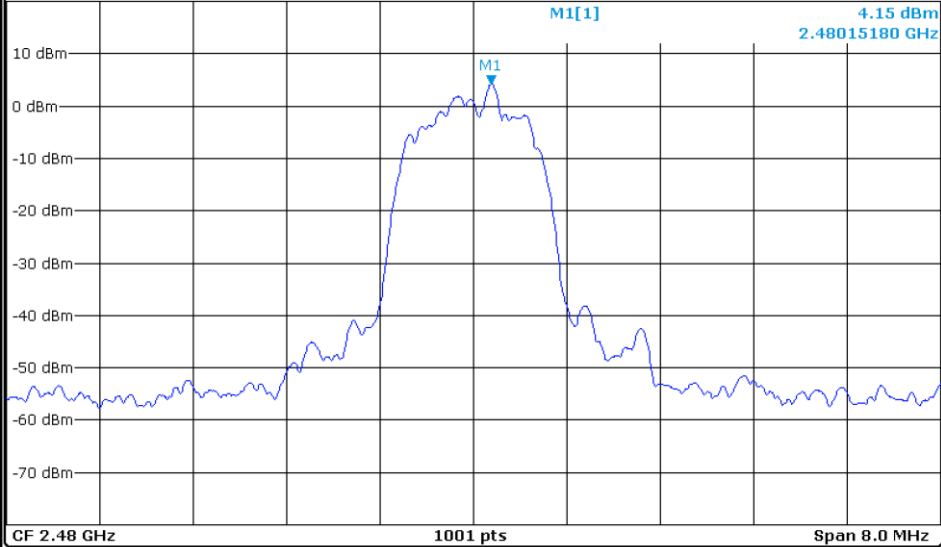
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40195 GHz	3.56 dBm		
M2	1		2.4 GHz	-55.65 dBm		
M3	1		2.39 GHz	-55.40 dBm		
M4	1		2.3401 GHz	-49.76 dBm		

Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

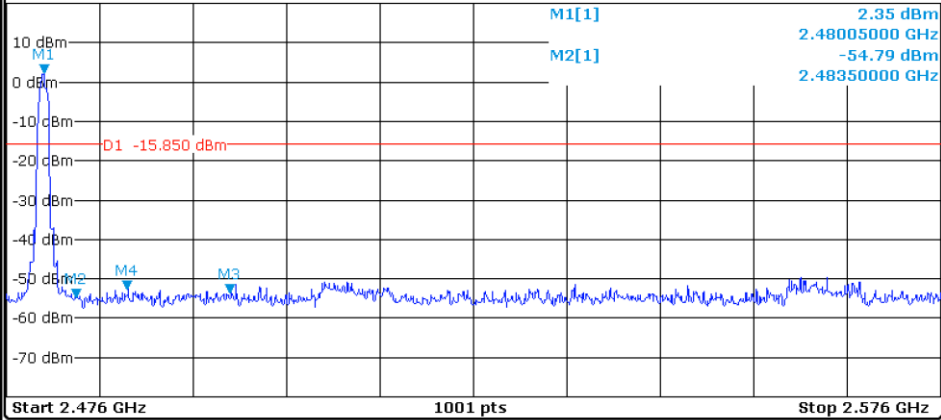


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

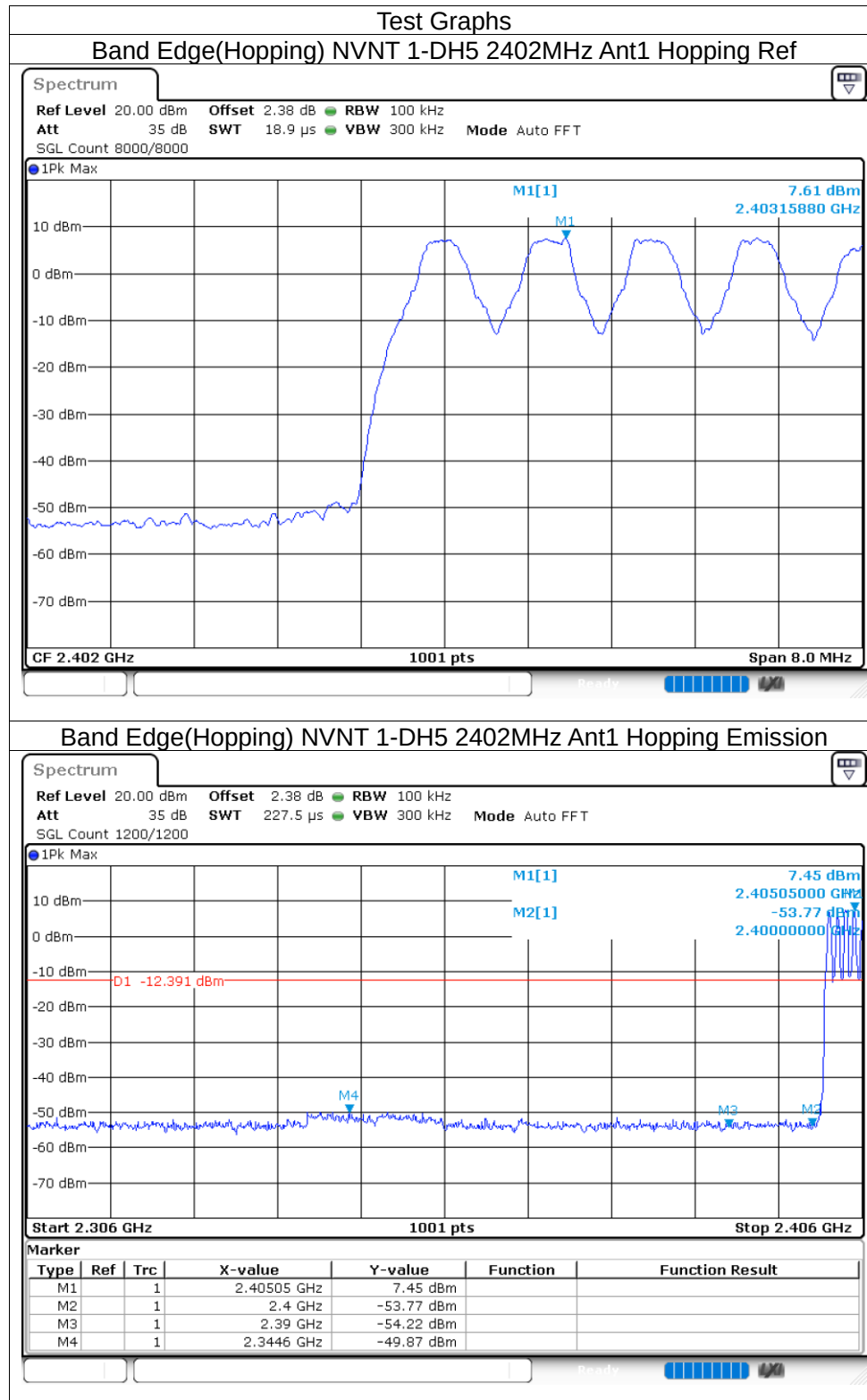


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.48005 GHz	2.35 dBm		
M2	1		2.4835 GHz	-54.79 dBm		
M3	1		2.5 GHz	-53.56 dBm		
M4	1		2.489 GHz	-52.67 dBm		

8.8 Band Edge(Hopping)

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	Hopping	-57.48	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-58.98	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-55.51	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-55.78	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-55.15	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-56.2	-20	Pass

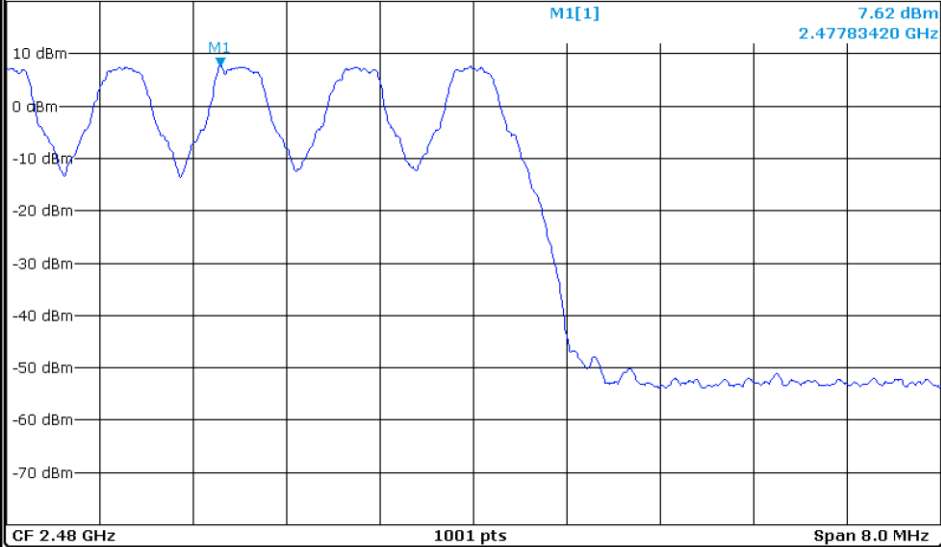


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

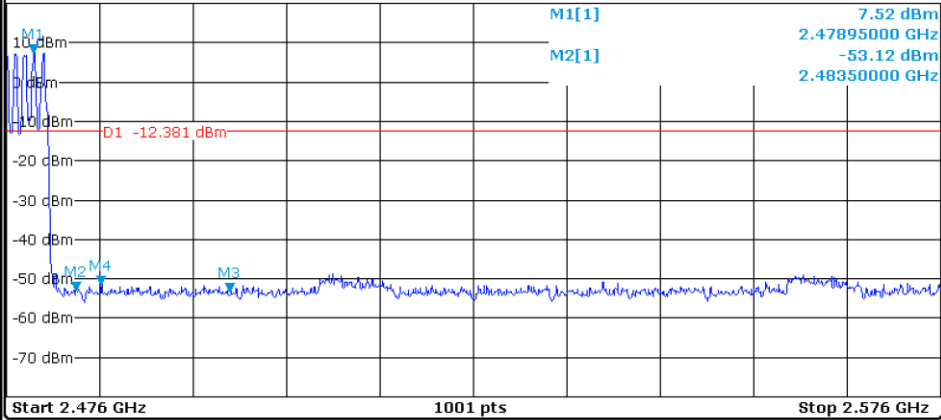


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

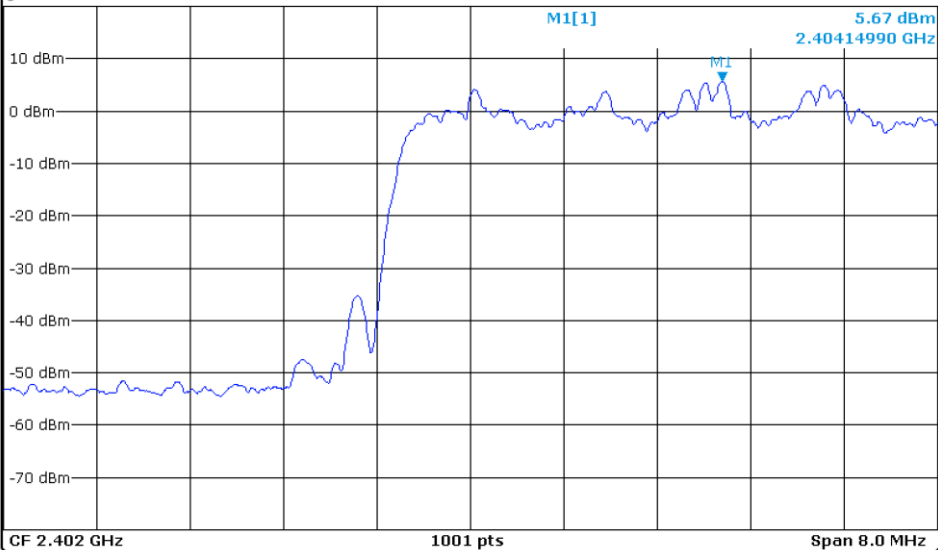
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47895 GHz	7.52 dBm		
M2		1	2.4835 GHz	-53.12 dBm		
M3		1	2.5 GHz	-53.14 dBm		
M4		1	2.4862 GHz	-51.36 dBm		

Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

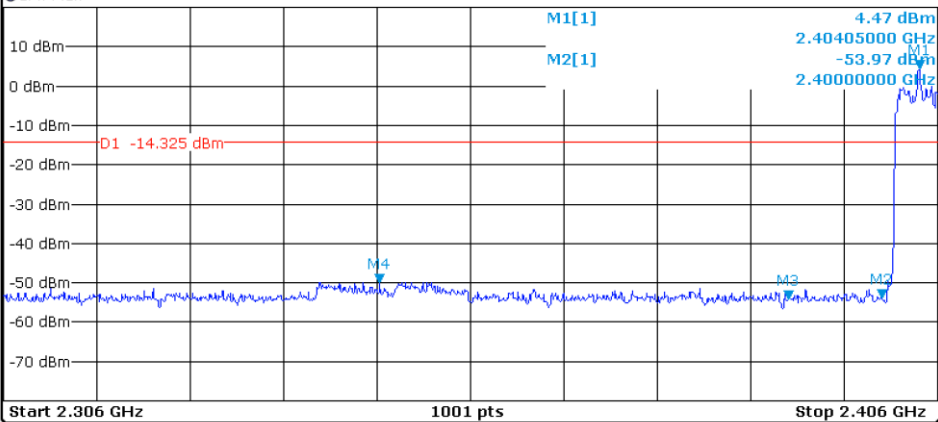


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



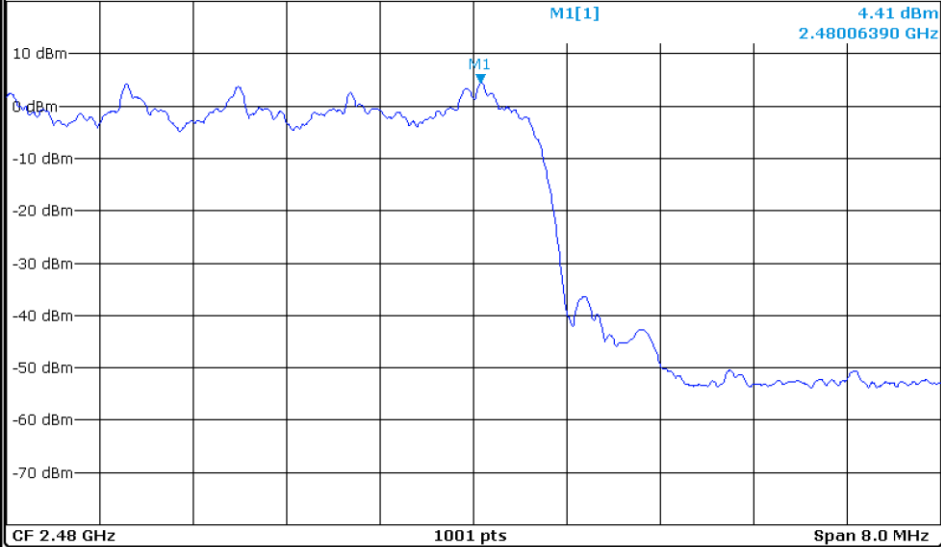
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40405 GHz	4.47 dBm		
M2		1	2.4 GHz	-53.97 dBm		
M3		1	2.39 GHz	-54.13 dBm		
M4		1	2.3463 GHz	-49.84 dBm		

Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

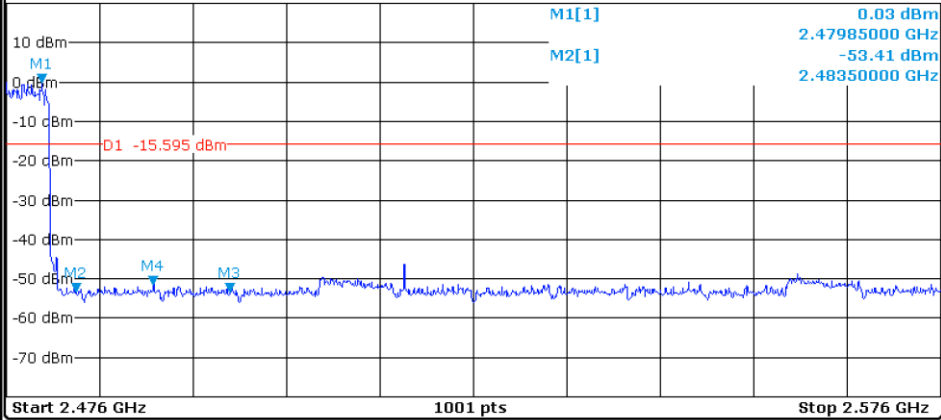


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

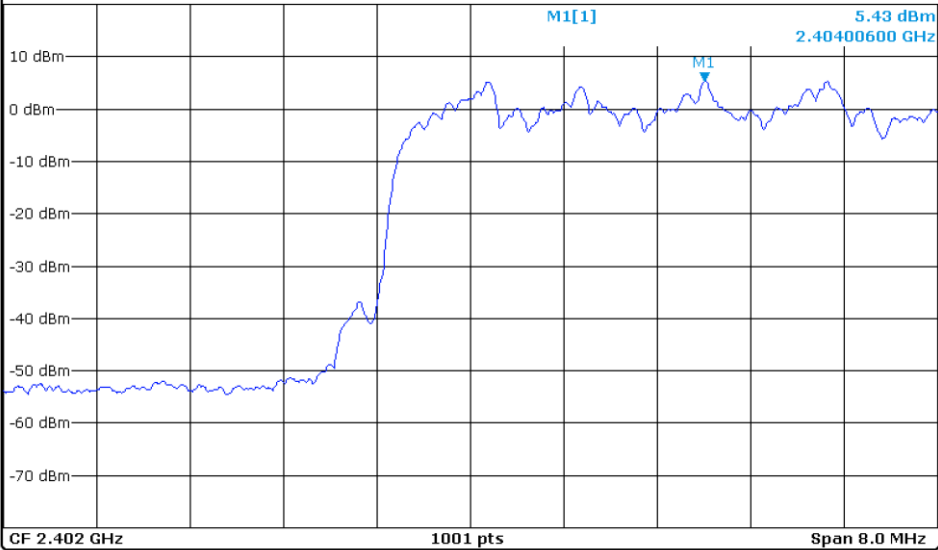
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	0.03 dBm		
M2		1	2.4835 GHz	-53.41 dBm		
M3		1	2.5 GHz	-53.19 dBm		
M4		1	2.4917 GHz	-51.38 dBm		

Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

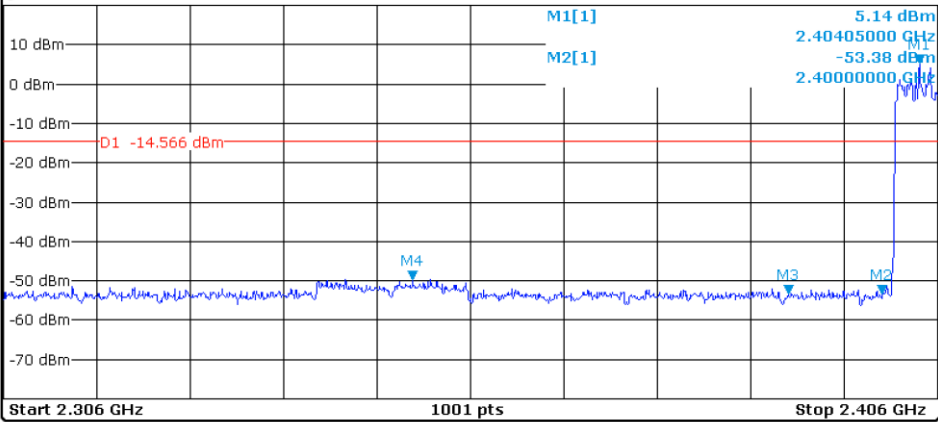


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

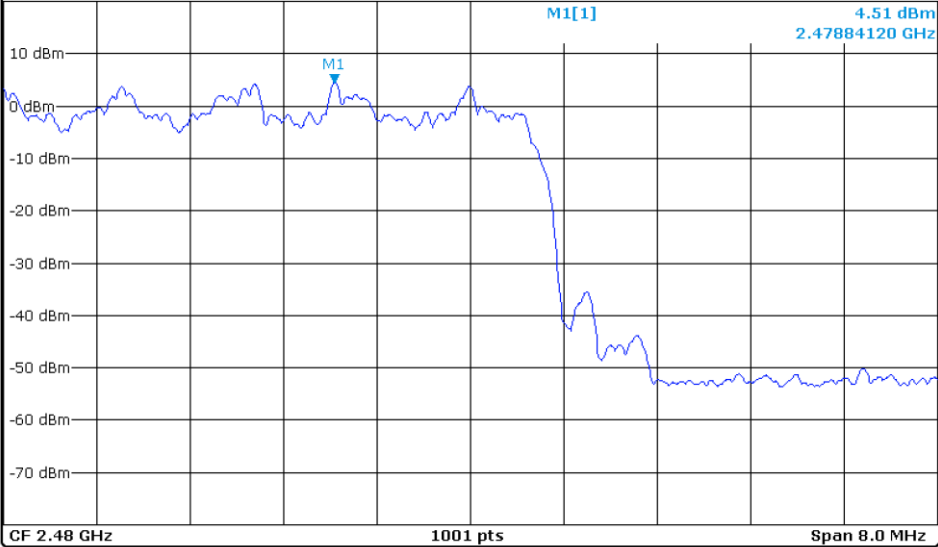
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40405 GHz	5.14 dBm		
M2		1	2.4 GHz	-53.38 dBm		
M3		1	2.39 GHz	-53.21 dBm		
M4		1	2.3498 GHz	-49.72 dBm		

Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Ref

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 8000/8000

1Pk Max

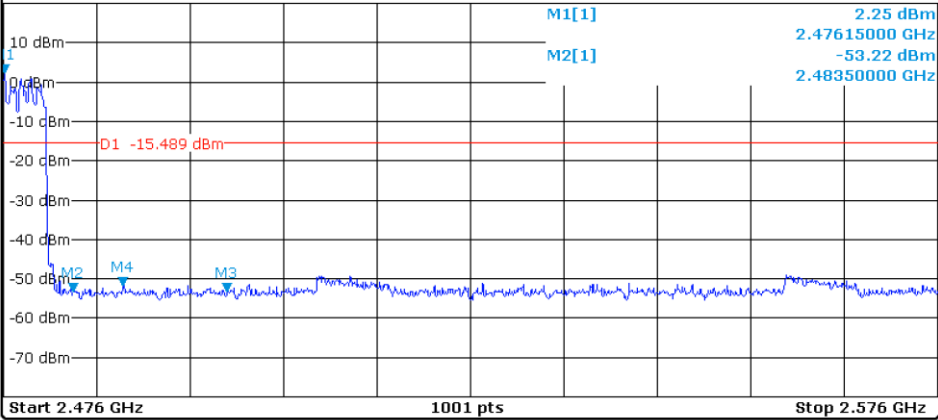


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

Spectrum

Ref Level 20.00 dBm Offset 2.42 dB RBW 100 kHz
Att 35 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 1200/1200

1Pk Max



Marker

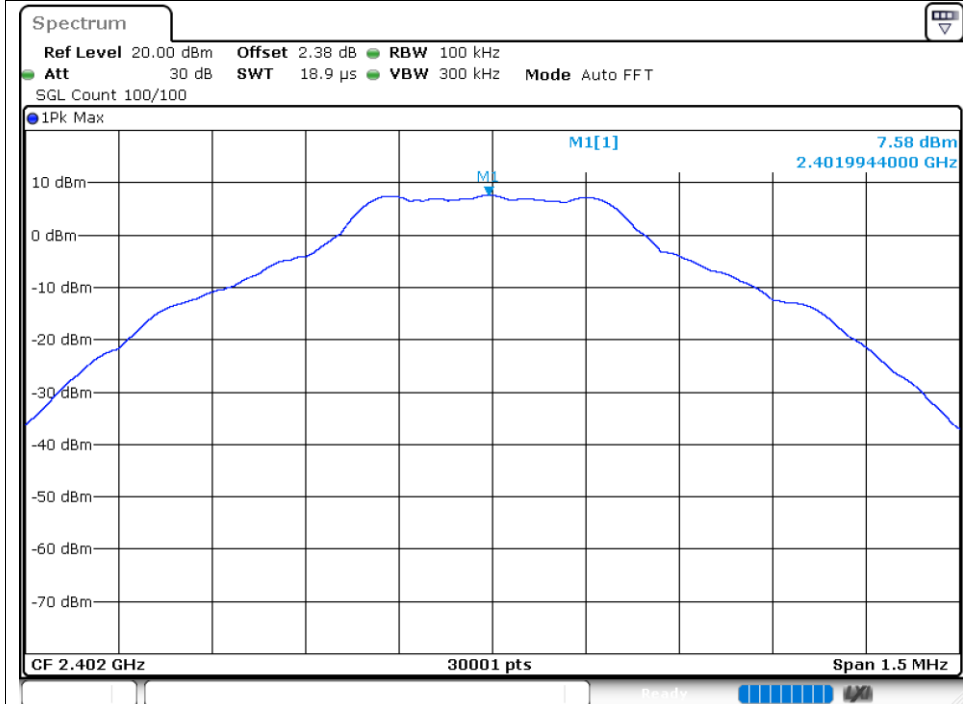
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47615 GHz	2.25 dBm		
M2		1	2.4835 GHz	-53.22 dBm		
M3		1	2.5 GHz	-53.18 dBm		
M4		1	2.4888 GHz	-51.69 dBm		

8.9 Conducted RF Spurious Emission

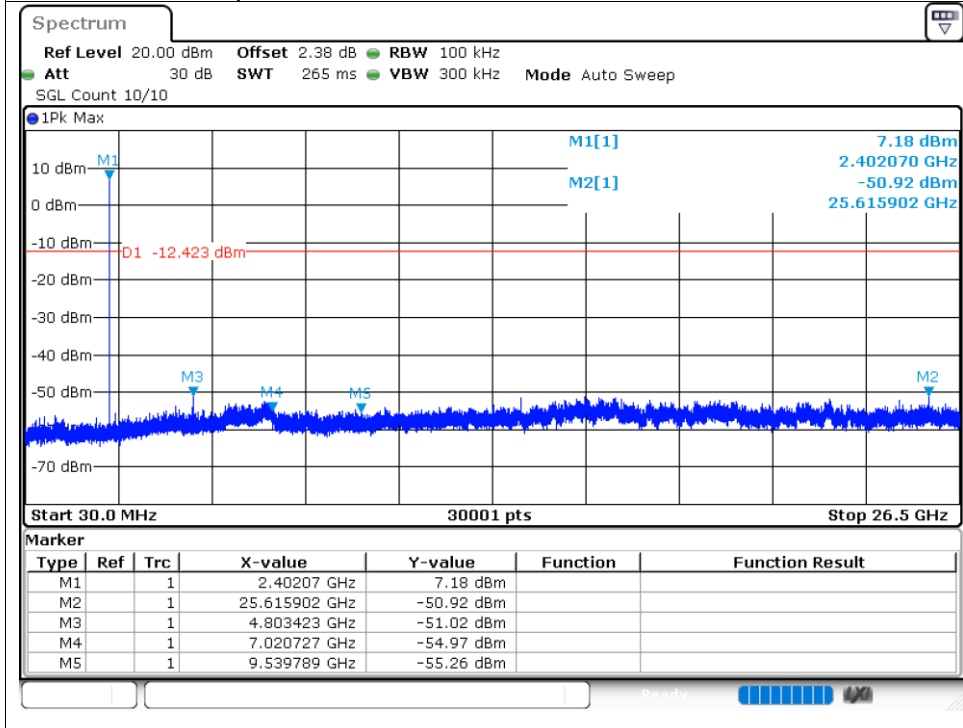
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-58.5	-20	Pass
NVNT	1-DH5	2441	Ant1	-57.52	-20	Pass
NVNT	1-DH5	2480	Ant1	-58.8	-20	Pass
NVNT	2-DH5	2402	Ant1	-52.87	-20	Pass
NVNT	2-DH5	2441	Ant1	-54.02	-20	Pass
NVNT	2-DH5	2480	Ant1	-54.01	-20	Pass
NVNT	3-DH5	2402	Ant1	-52.42	-20	Pass
NVNT	3-DH5	2441	Ant1	-55.51	-20	Pass
NVNT	3-DH5	2480	Ant1	-55.22	-20	Pass

Test Graphs

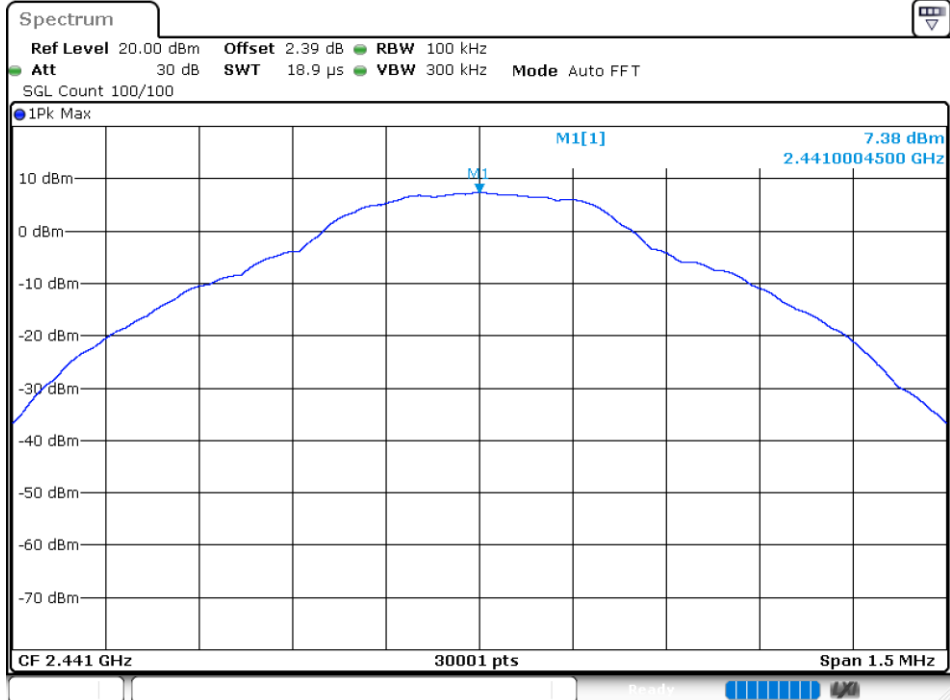
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Ref



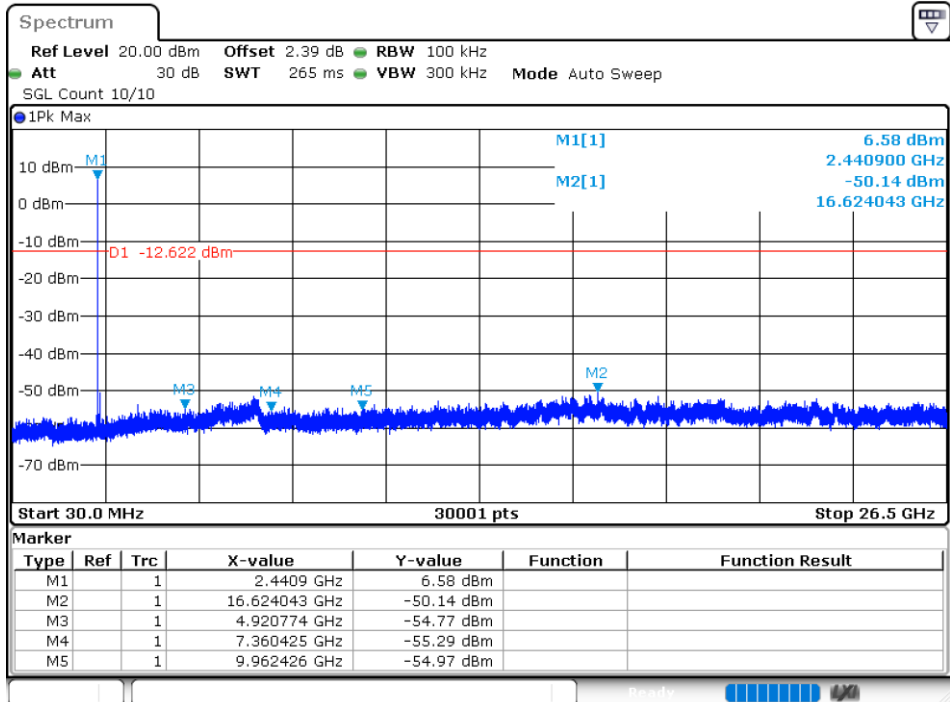
Tx. Spurious NVNT 1-DH5 2402MHz Ant1 Emission



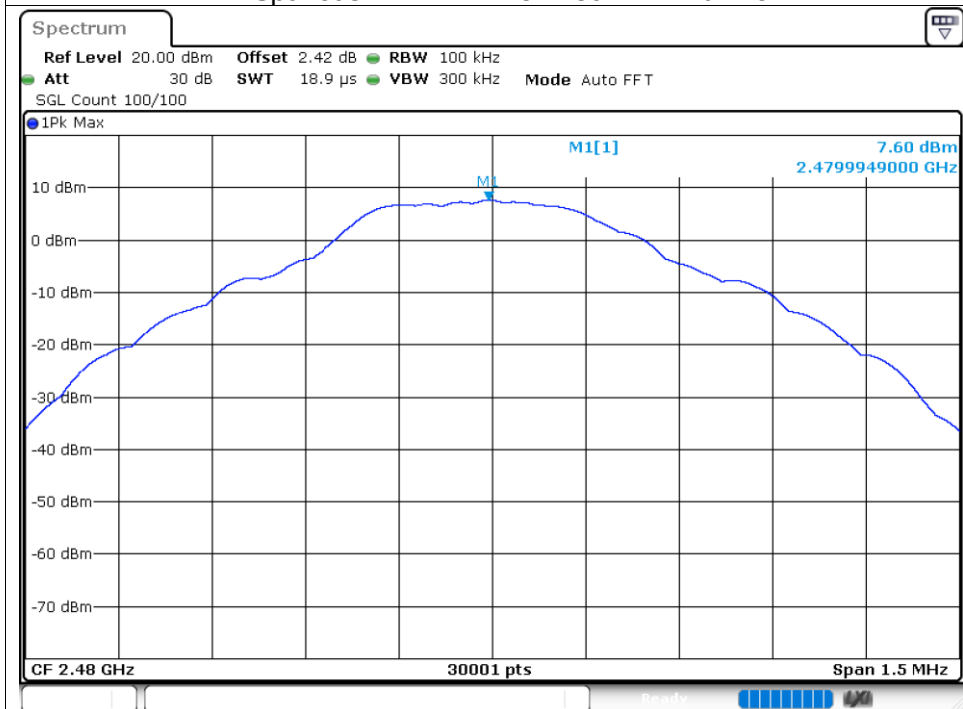
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



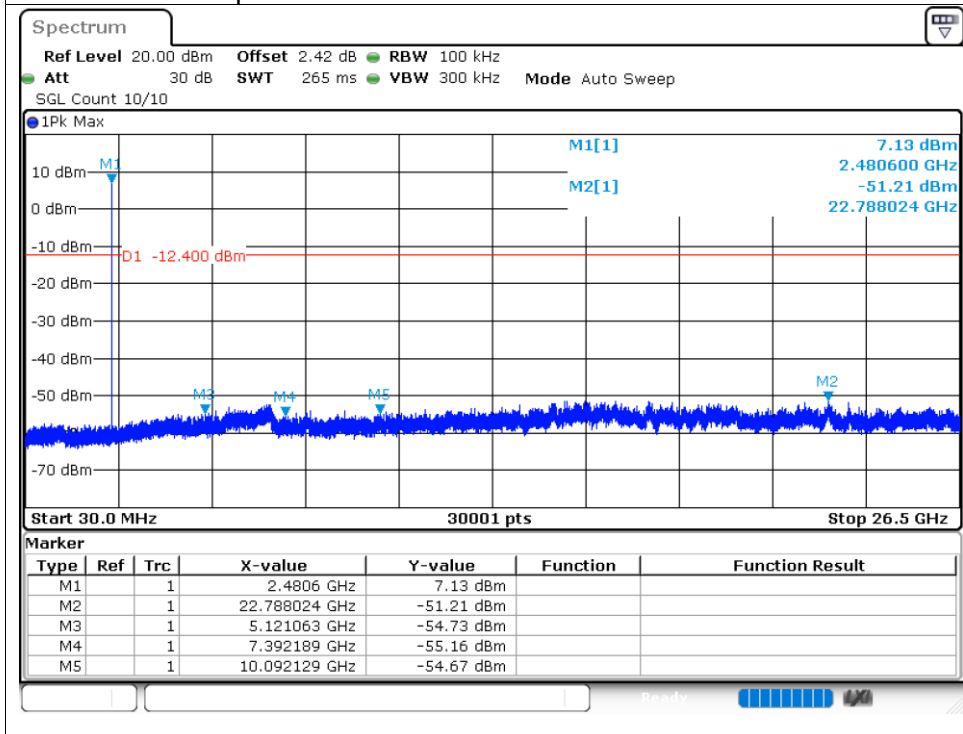
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



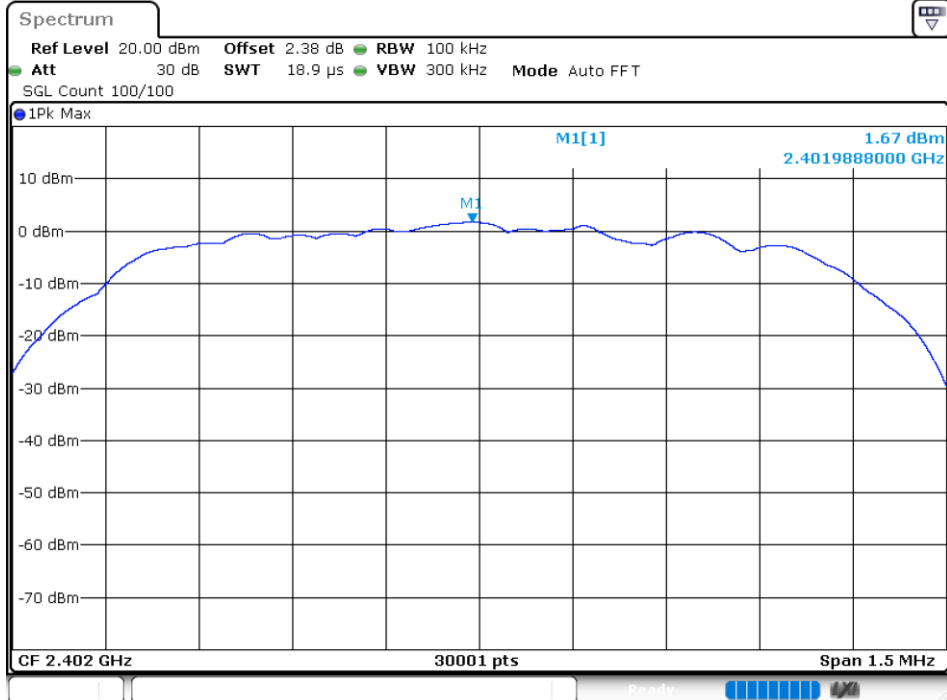
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



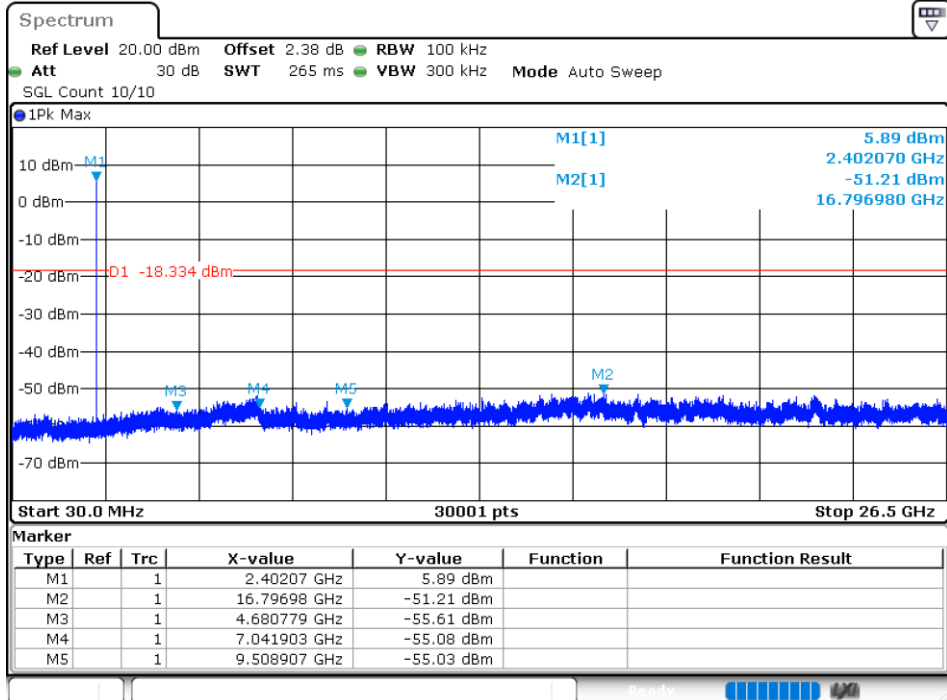
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



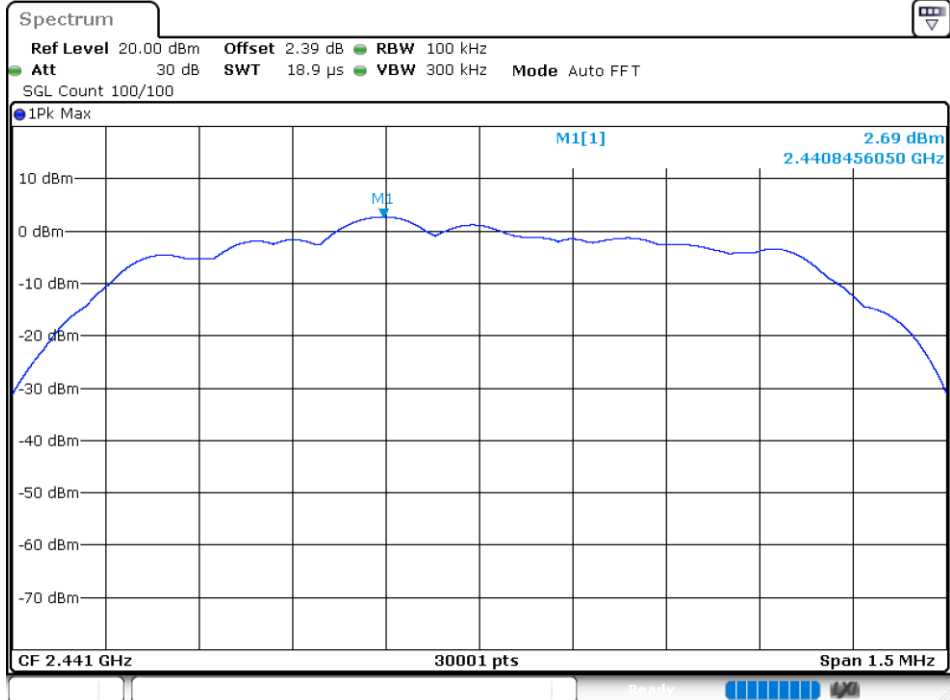
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



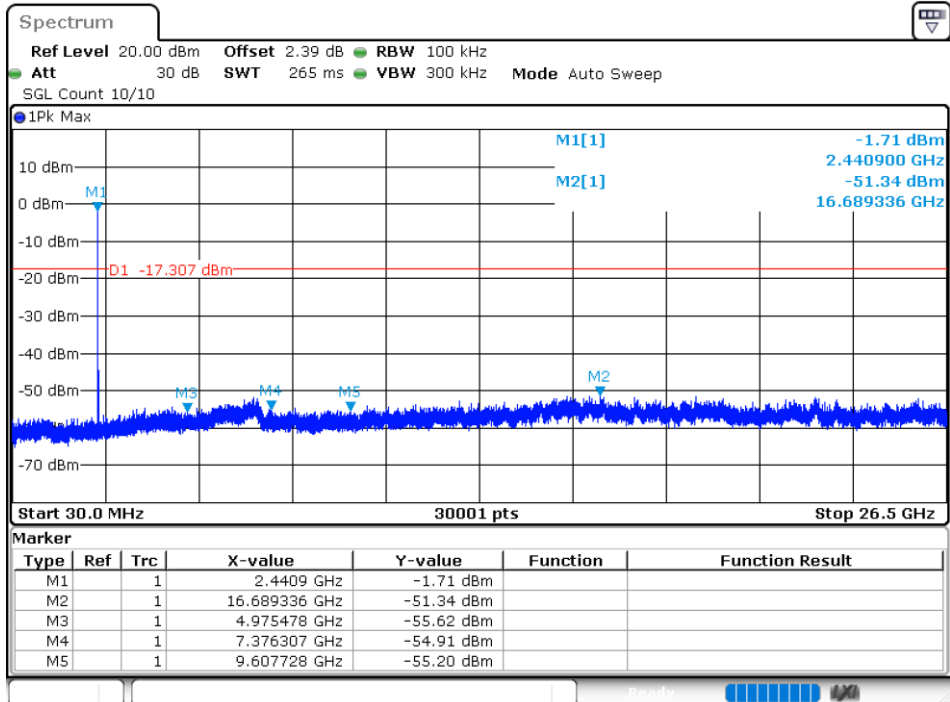
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



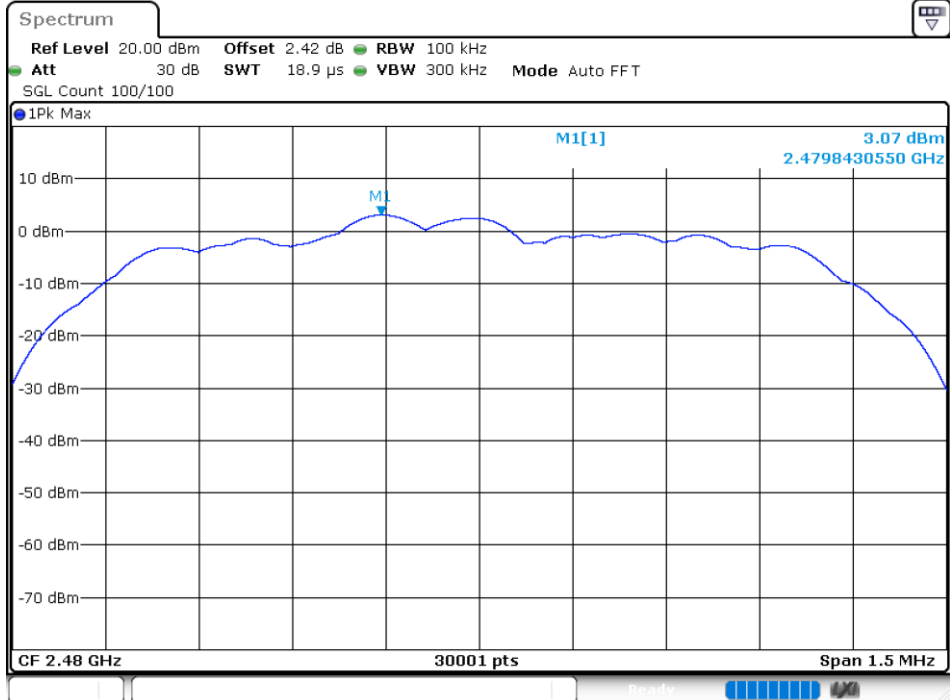
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



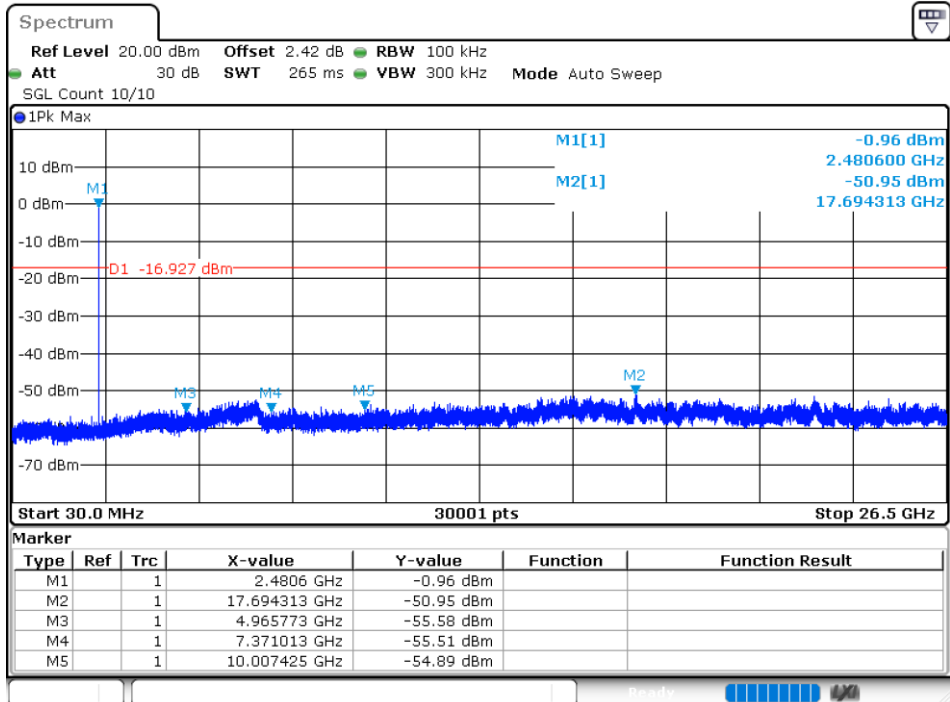
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



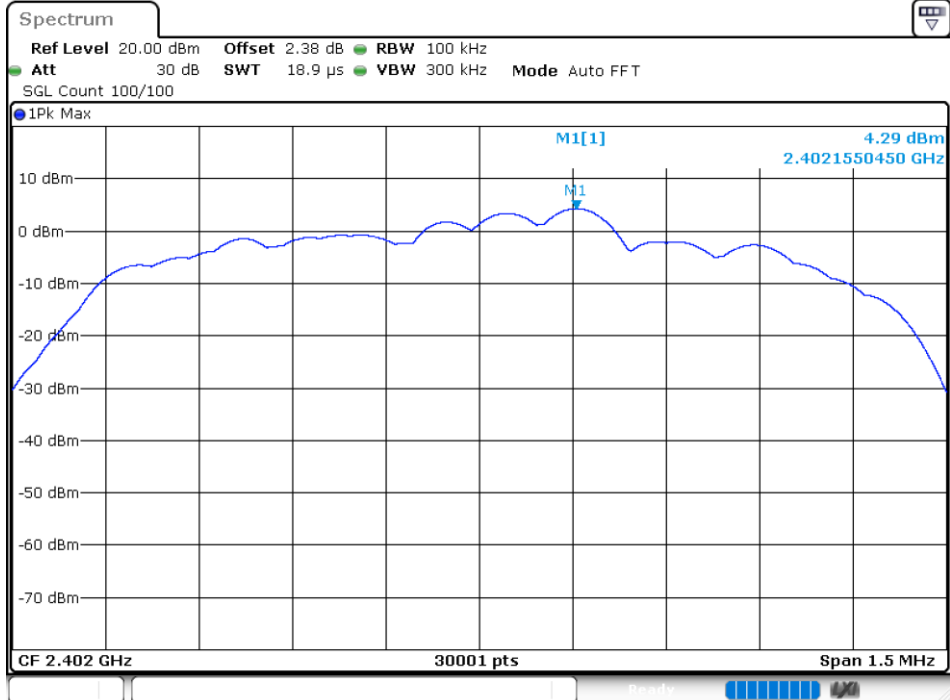
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



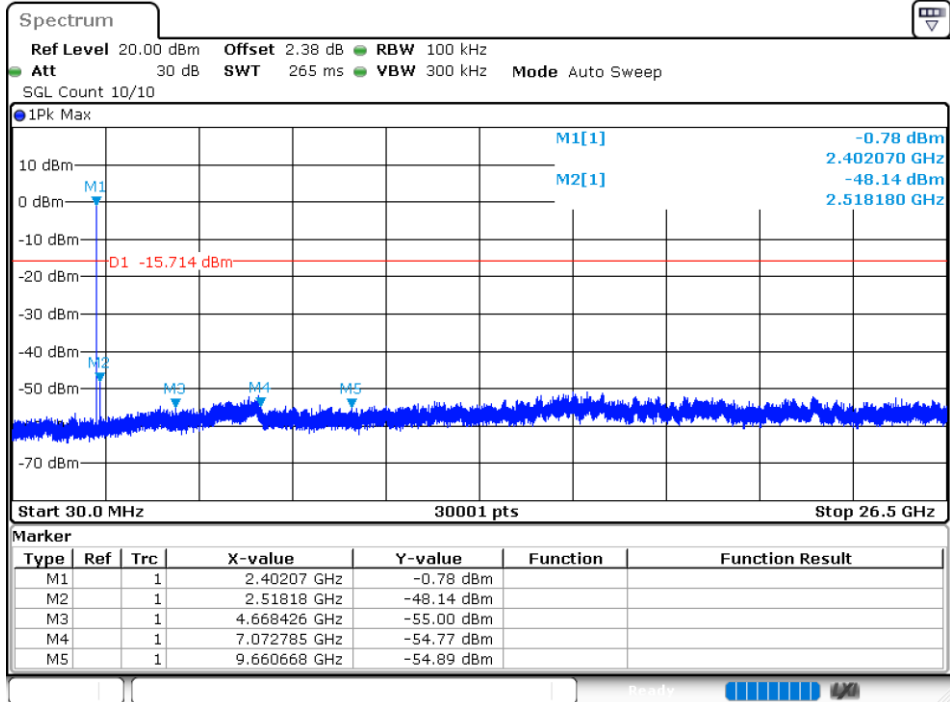
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



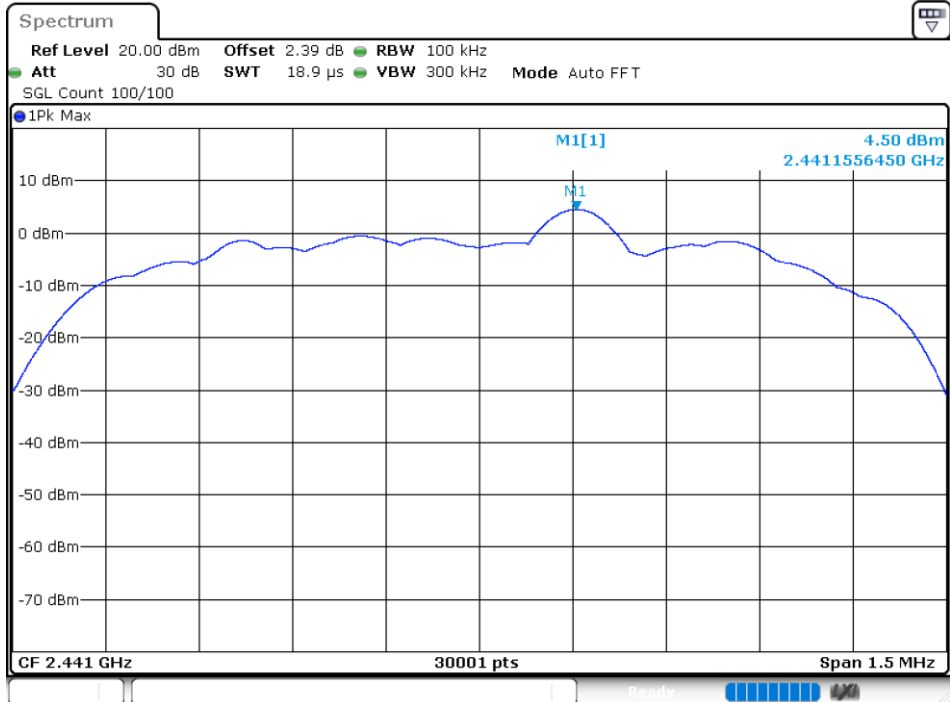
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



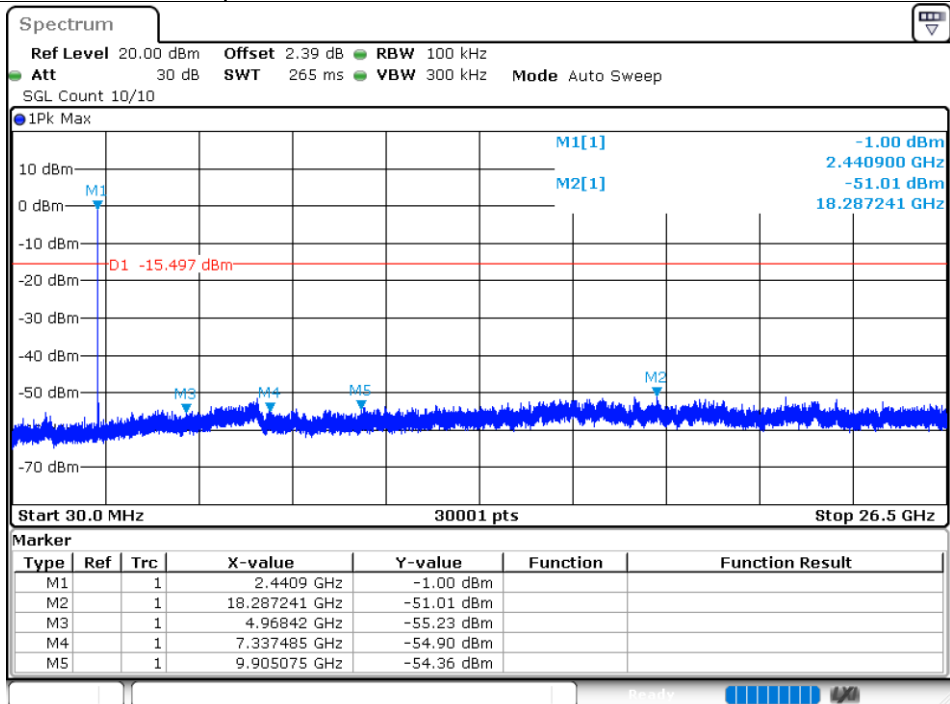
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



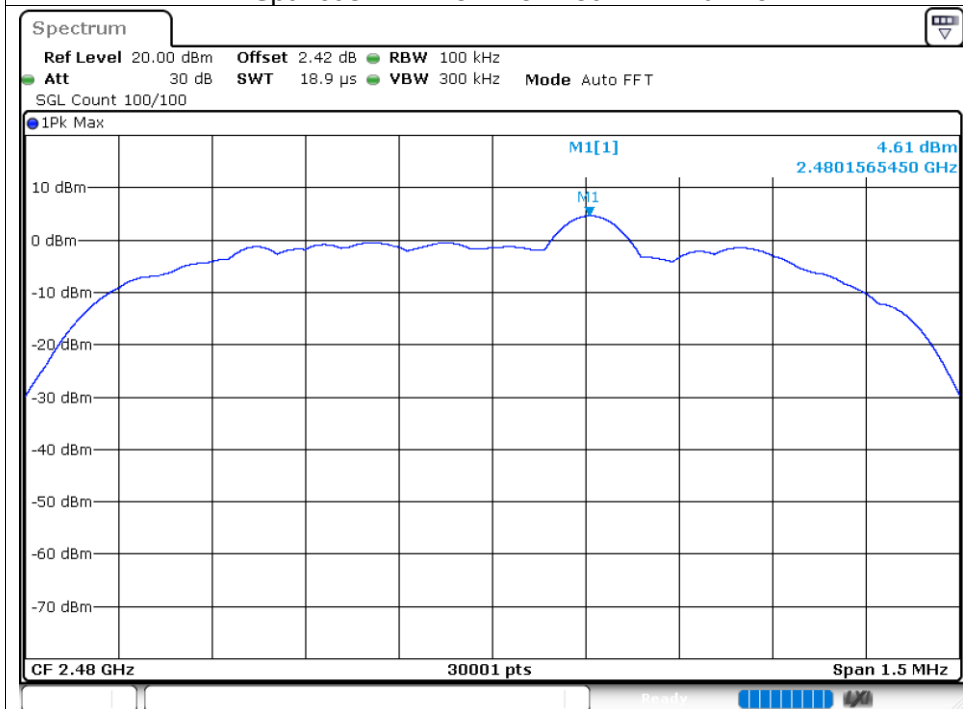
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



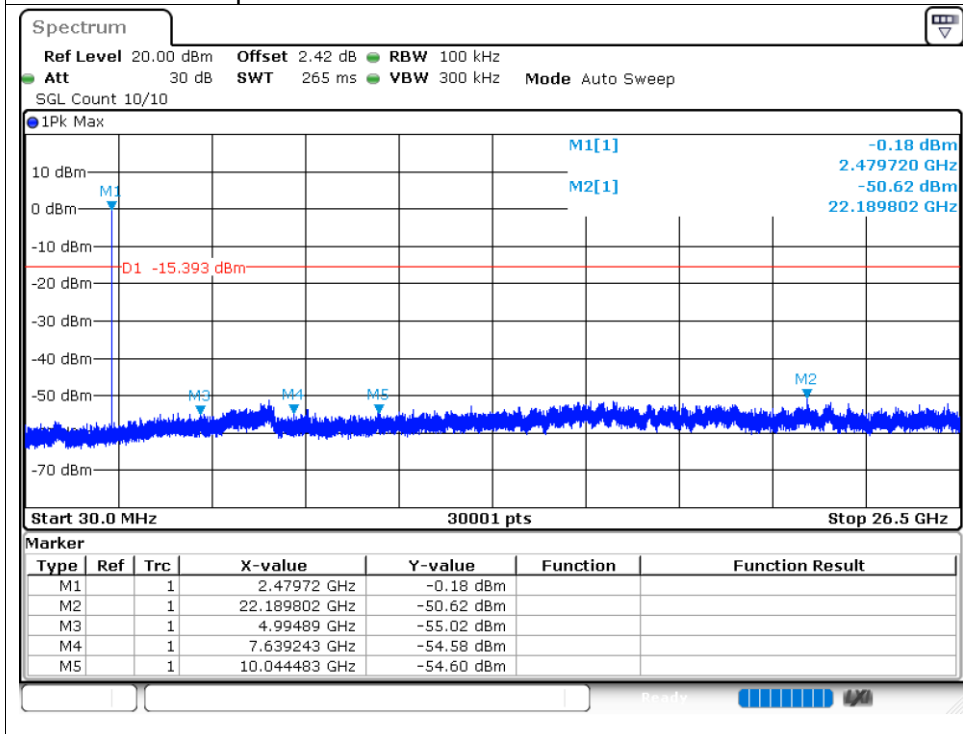
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



END OF REPORT