

8.3 -20dB BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	-20 dB Bandwidth (MHz)	Verdict
NVNT	1-DH5	2402	Ant1	0.952	Pass
NVNT	1-DH5	2441	Ant1	0.932	Pass
NVNT	1-DH5	2480	Ant1	1.018	Pass
NVNT	2-DH5	2402	Ant1	1.278	Pass
NVNT	2-DH5	2441	Ant1	1.278	Pass
NVNT	2-DH5	2480	Ant1	1.292	Pass
NVNT	3-DH5	2402	Ant1	1.286	Pass
NVNT	3-DH5	2441	Ant1	1.27	Pass
NVNT	3-DH5	2480	Ant1	1.286	Pass

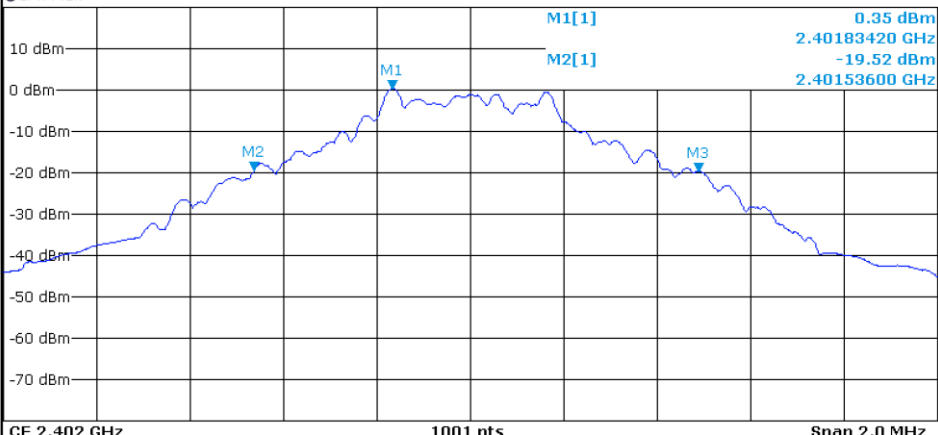
Test Graphs

-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 500/500

1Pk Max



Marker

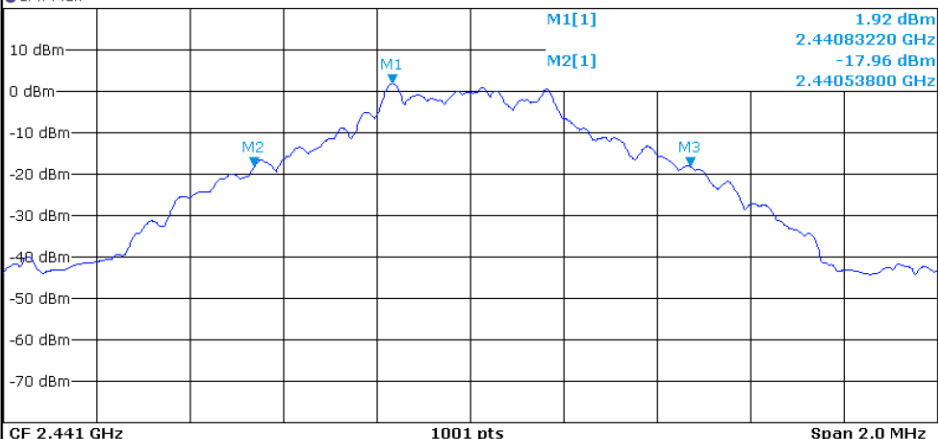
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.4018342 GHz	0.35 dBm		
M2	1		2.401536 GHz	-19.52 dBm		
M3	1		2.402488 GHz	-19.66 dBm		

-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 500/500

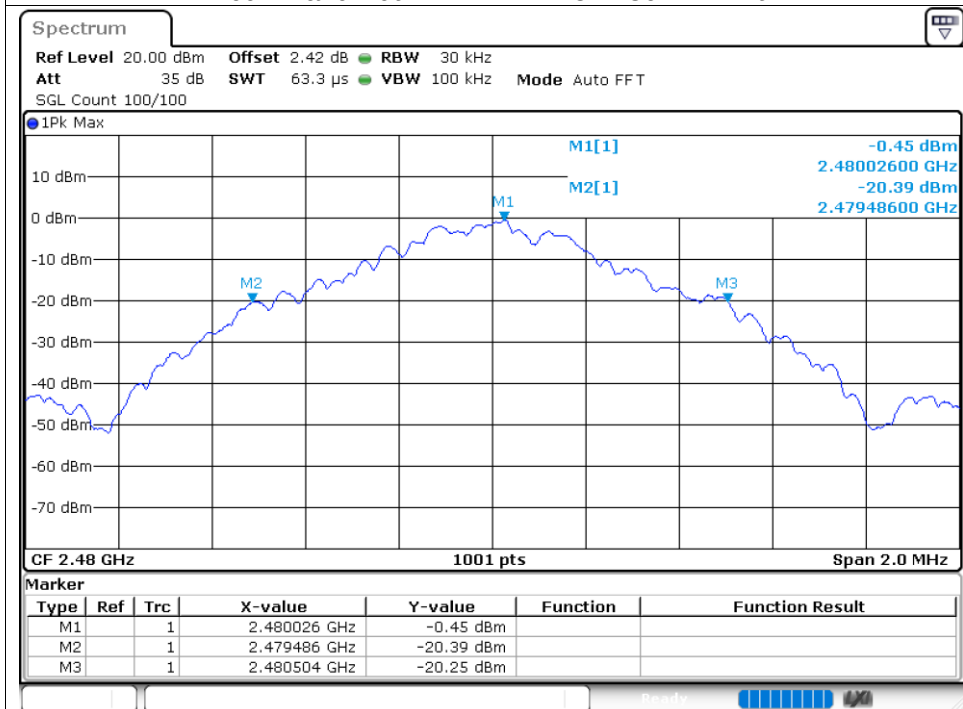
1Pk Max



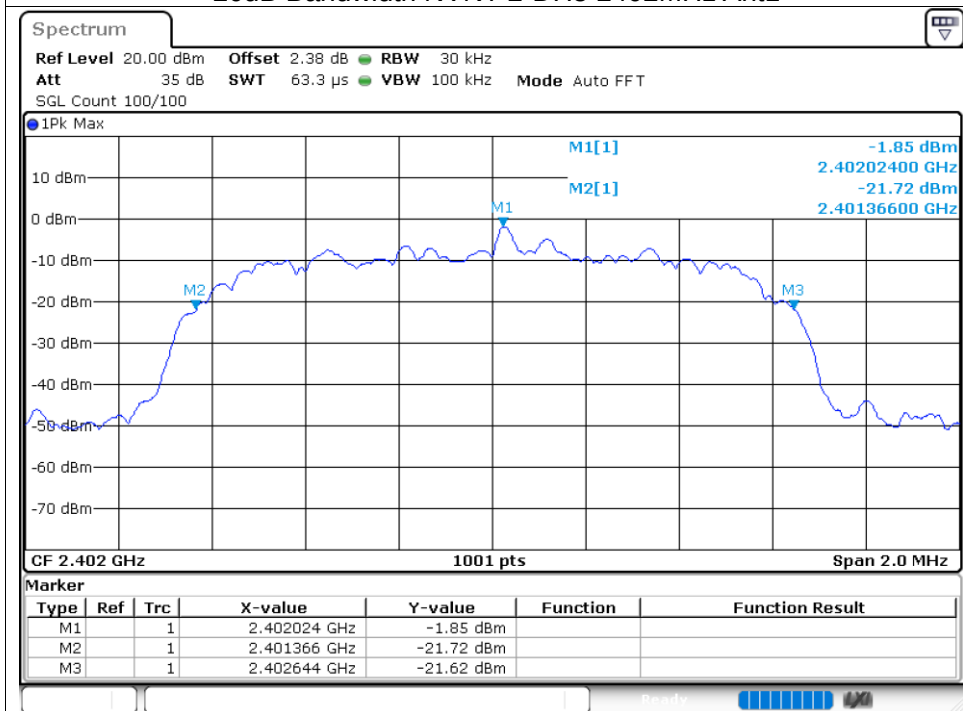
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.4408322 GHz	1.92 dBm		
M2	1		2.440538 GHz	-17.96 dBm		
M3	1		2.44147 GHz	-18.08 dBm		

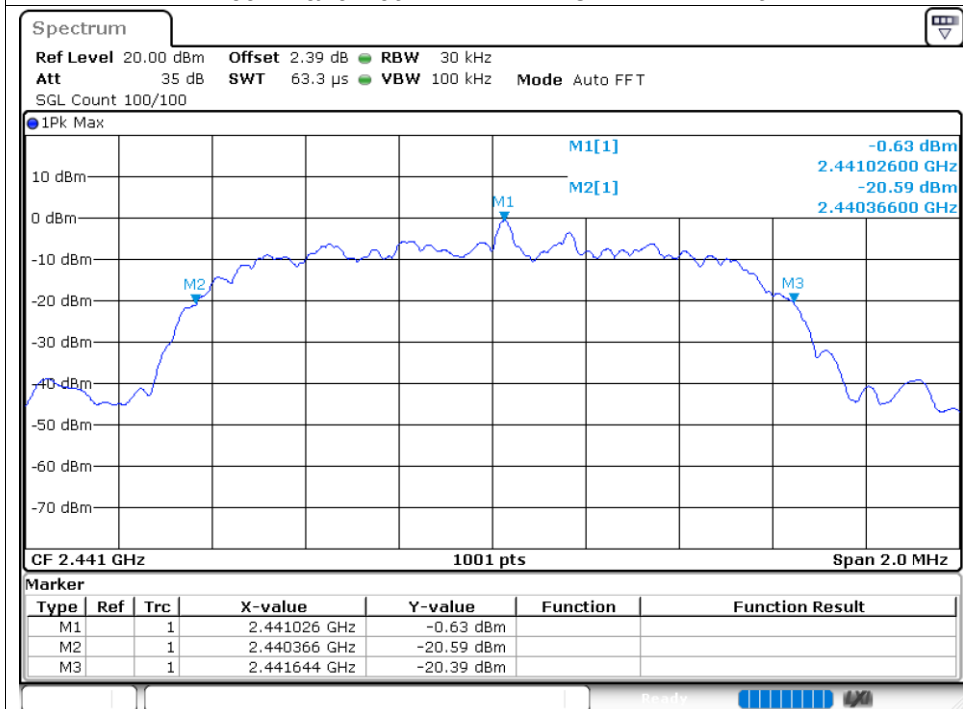
-20dB Bandwidth NVNT 1-DH5 2480MHz Ant1



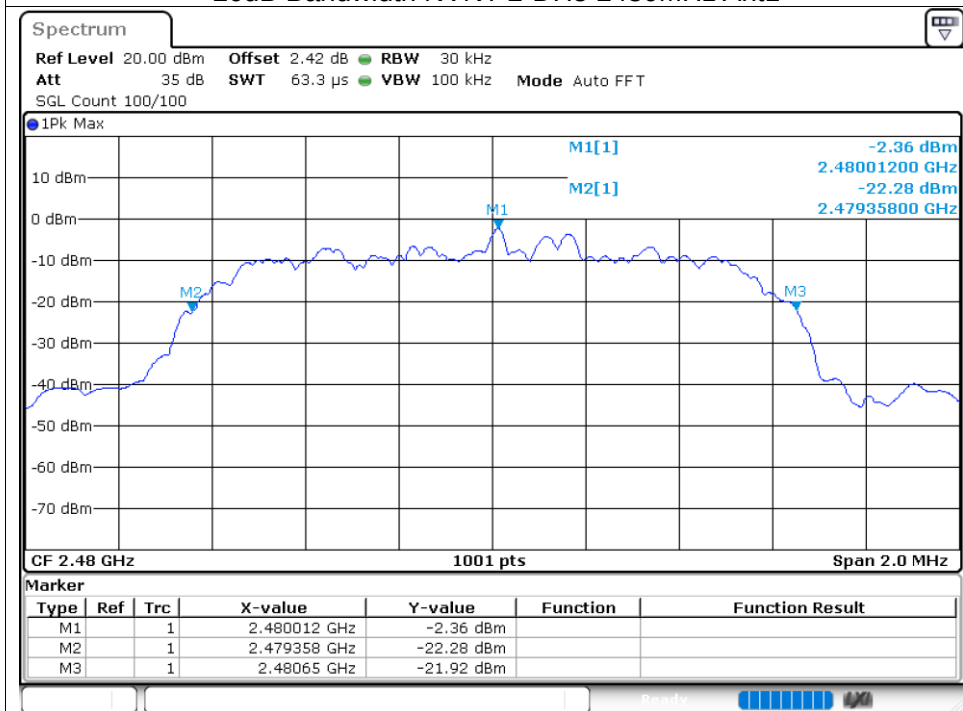
-20dB Bandwidth NVNT 2-DH5 2402MHz Ant1



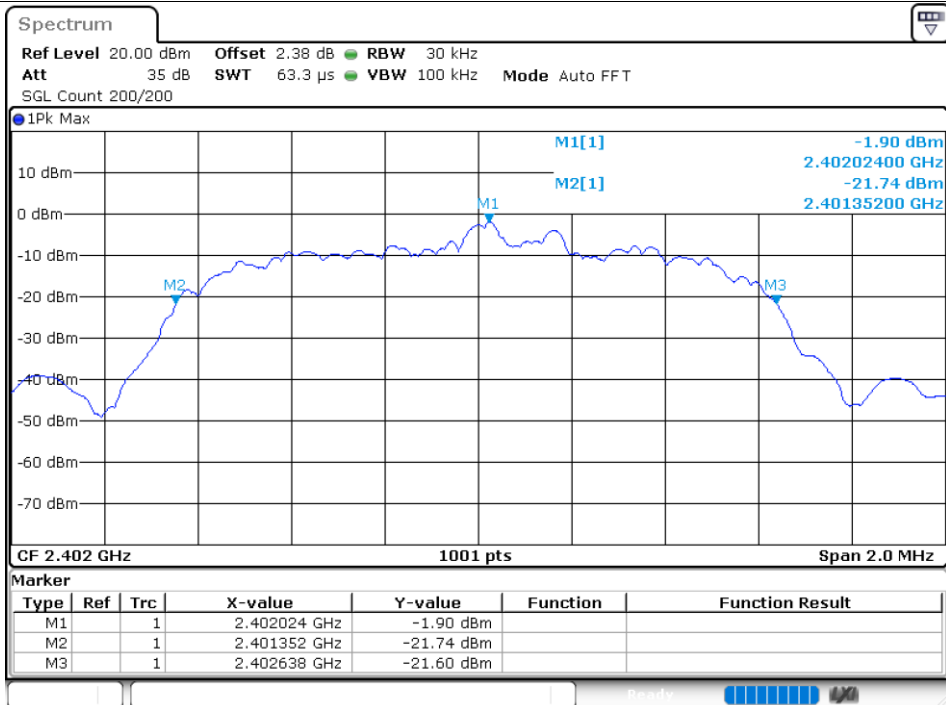
-20dB Bandwidth NVNT 2-DH5 2441MHz Ant1



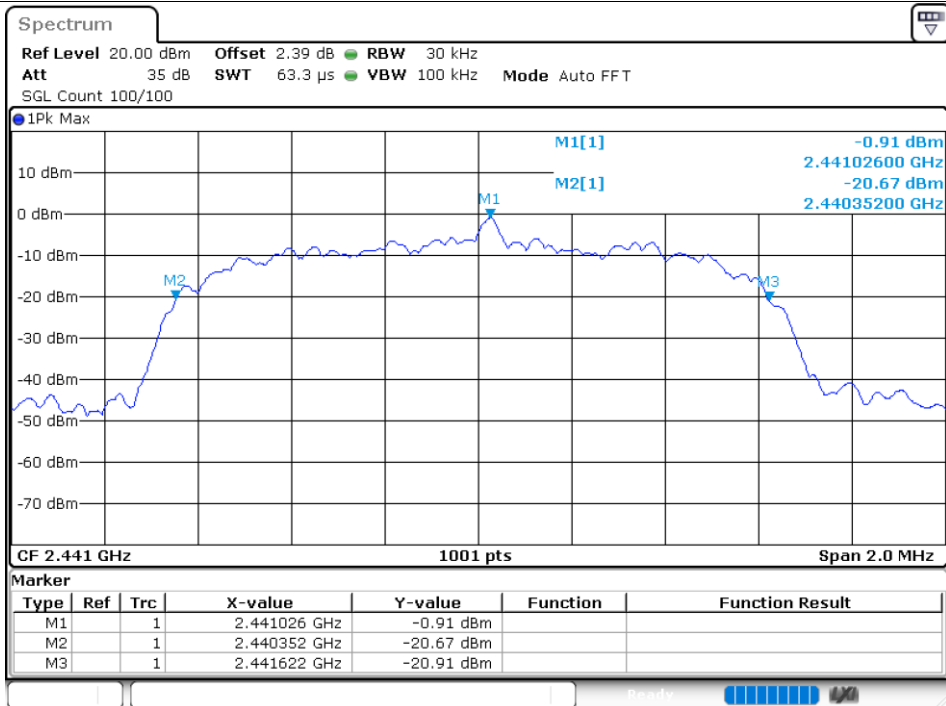
-20dB Bandwidth NVNT 2-DH5 2480MHz Ant1

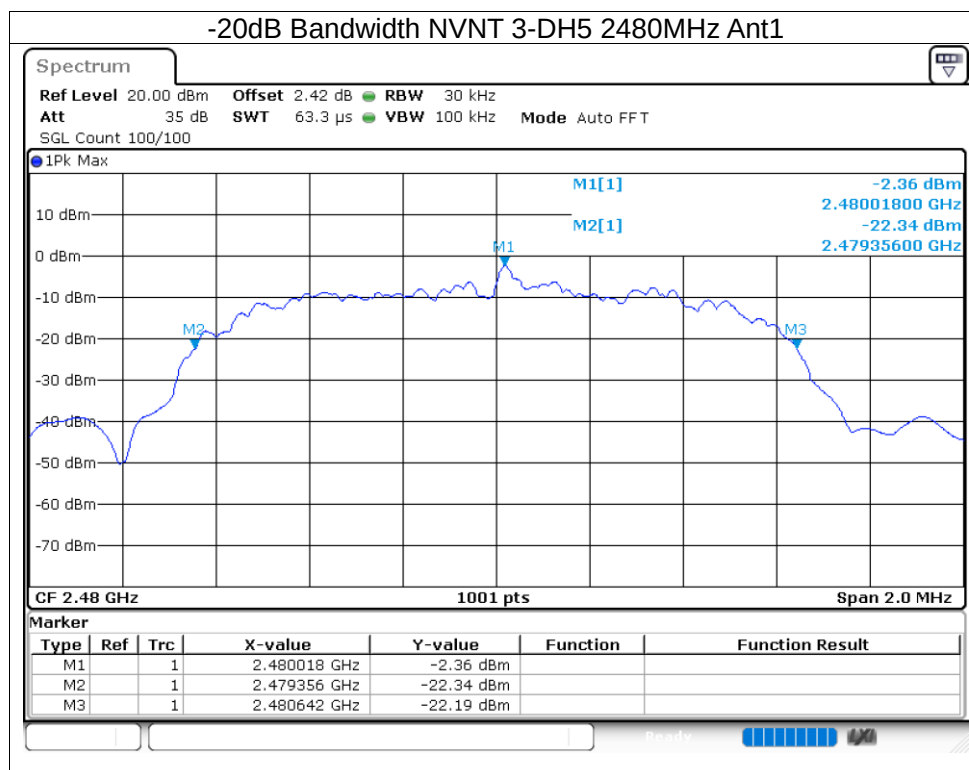


-20dB Bandwidth NVNT 3-DH5 2402MHz Ant1



-20dB Bandwidth NVNT 3-DH5 2441MHz Ant1





8.4 OCCUPIED CHANNEL BANDWIDTH

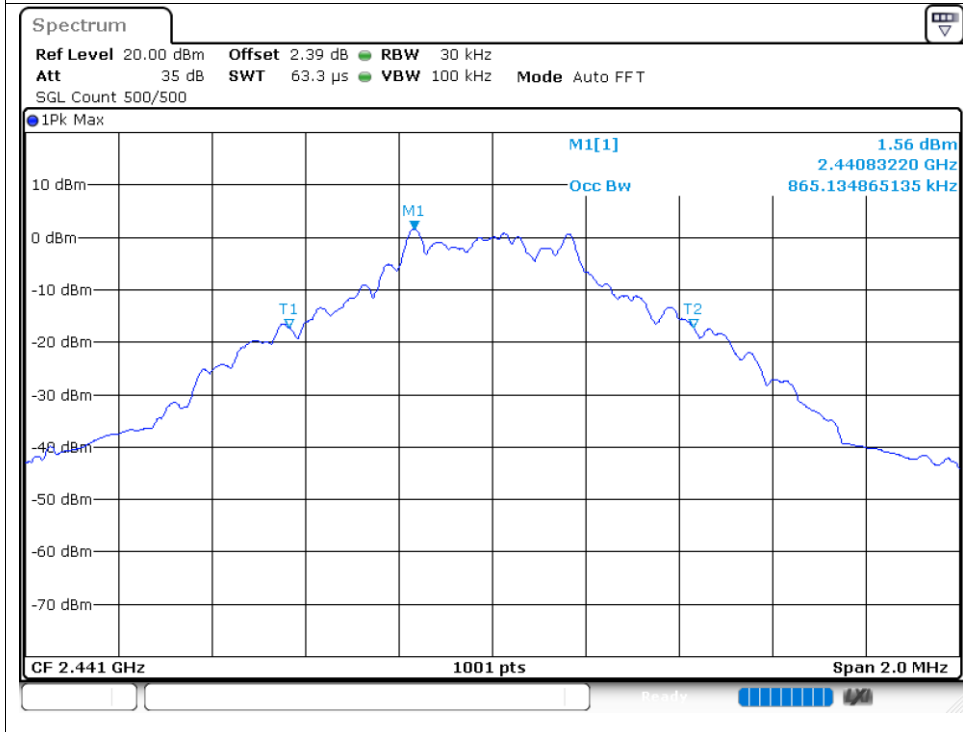
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH5	2402	Ant1	0.863
NVNT	1-DH5	2441	Ant1	0.865
NVNT	1-DH5	2480	Ant1	0.863
NVNT	2-DH5	2402	Ant1	1.175
NVNT	2-DH5	2441	Ant1	1.191
NVNT	2-DH5	2480	Ant1	1.177
NVNT	3-DH5	2402	Ant1	1.189
NVNT	3-DH5	2441	Ant1	1.187
NVNT	3-DH5	2480	Ant1	1.185

Test Graphs

OBW NVNT 1-DH5 2402MHz Ant1



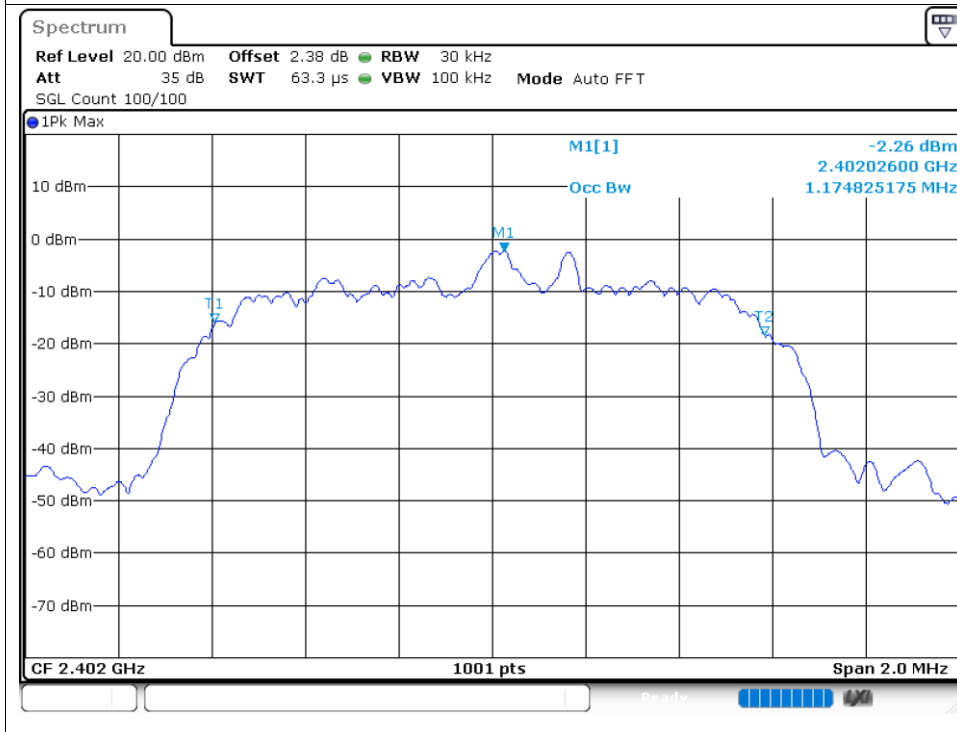
OBW NVNT 1-DH5 2441MHz Ant1



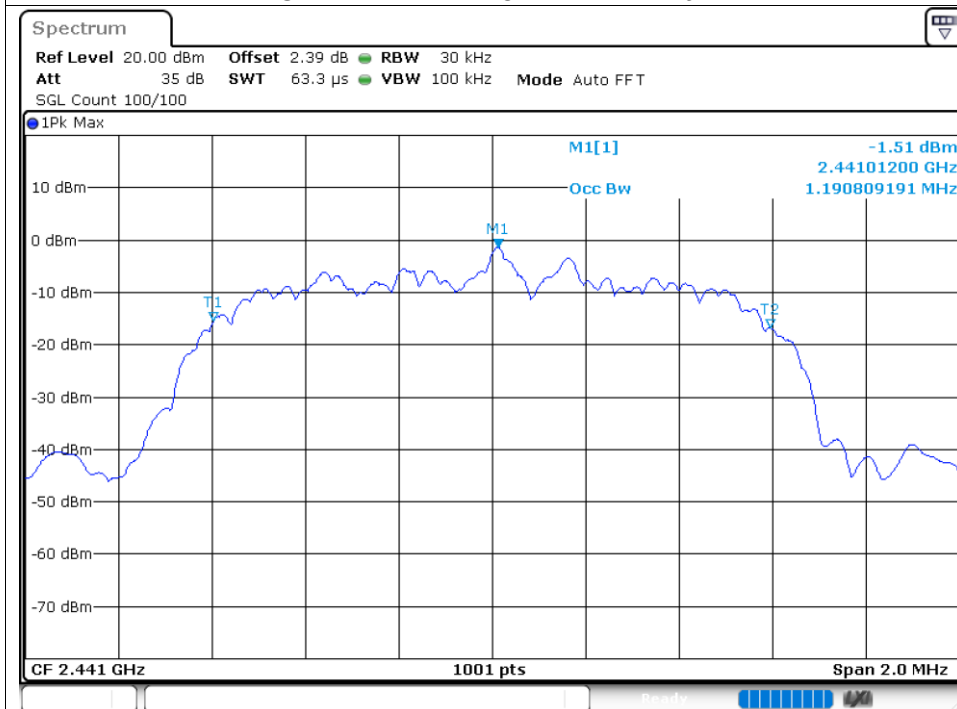
OBW NVNT 1-DH5 2480MHz Ant1



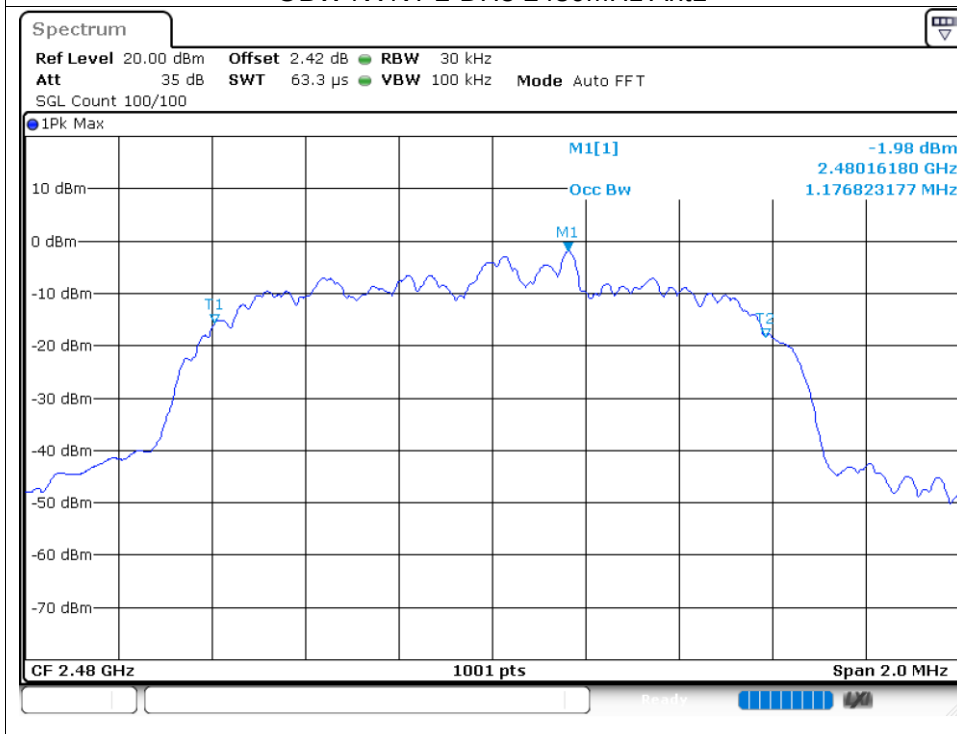
OBW NVNT 2-DH5 2402MHz Ant1



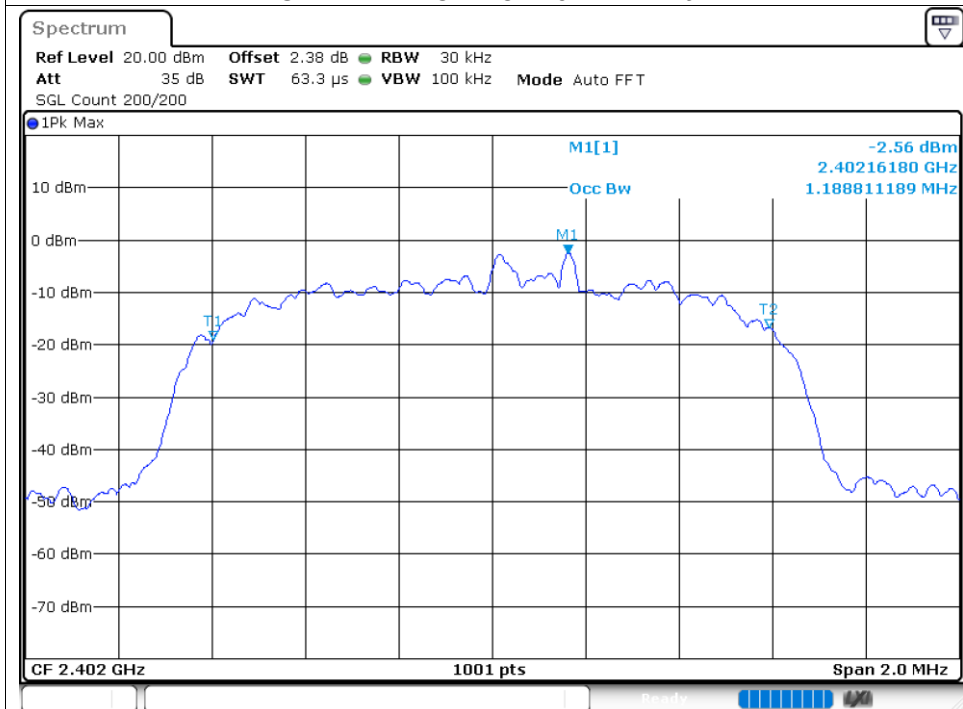
OBW NVNT 2-DH5 2441MHz Ant1



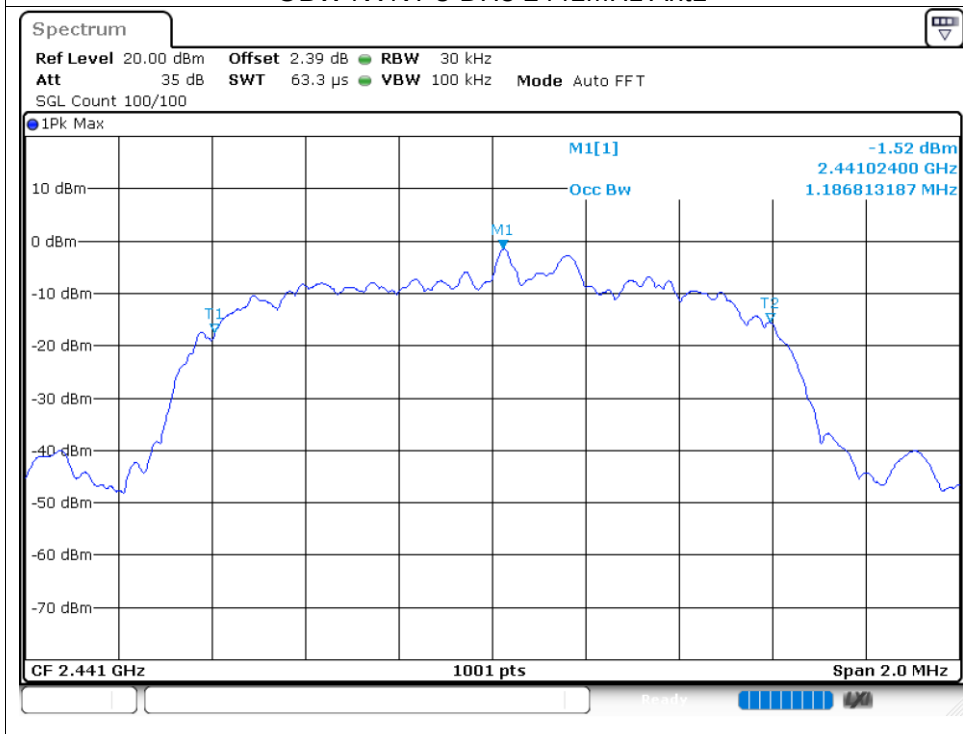
OBW NVNT 2-DH5 2480MHz Ant1

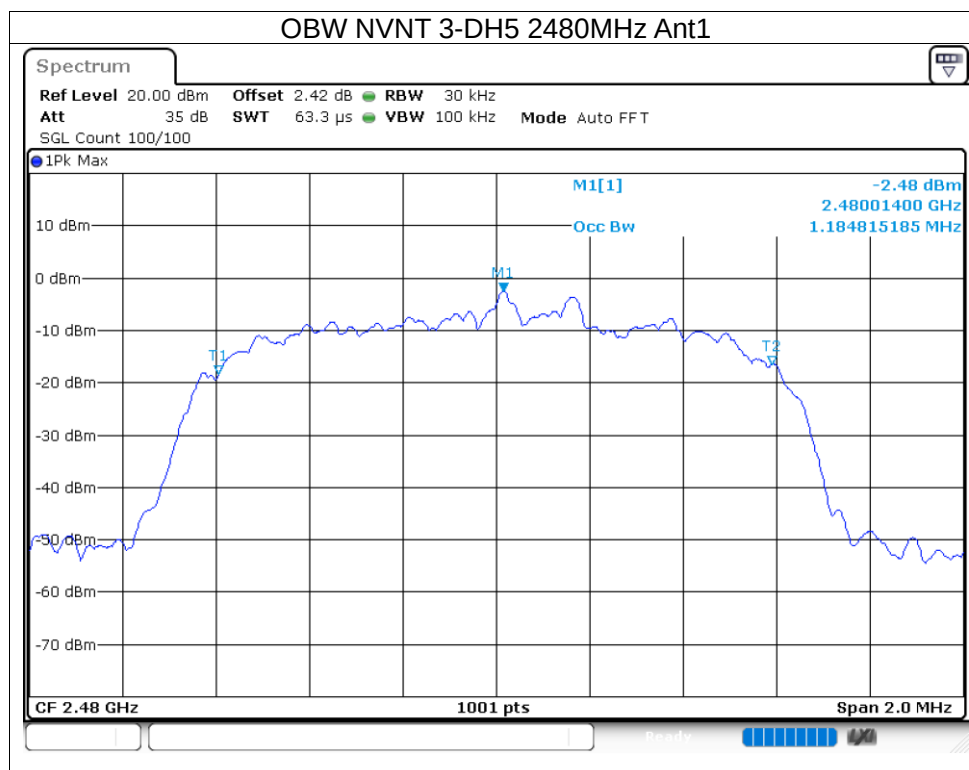


OBW NVNT 3-DH5 2402MHz Ant1



OBW NVNT 3-DH5 2441MHz Ant1



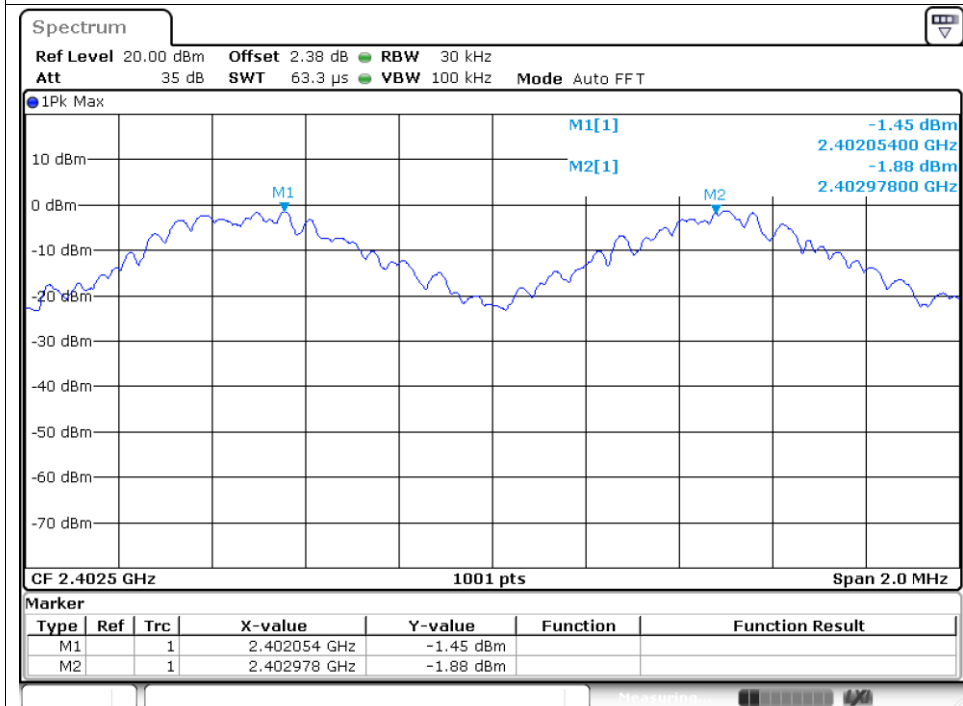


8.5 CARRIER FREQUENCIES SEPARATION

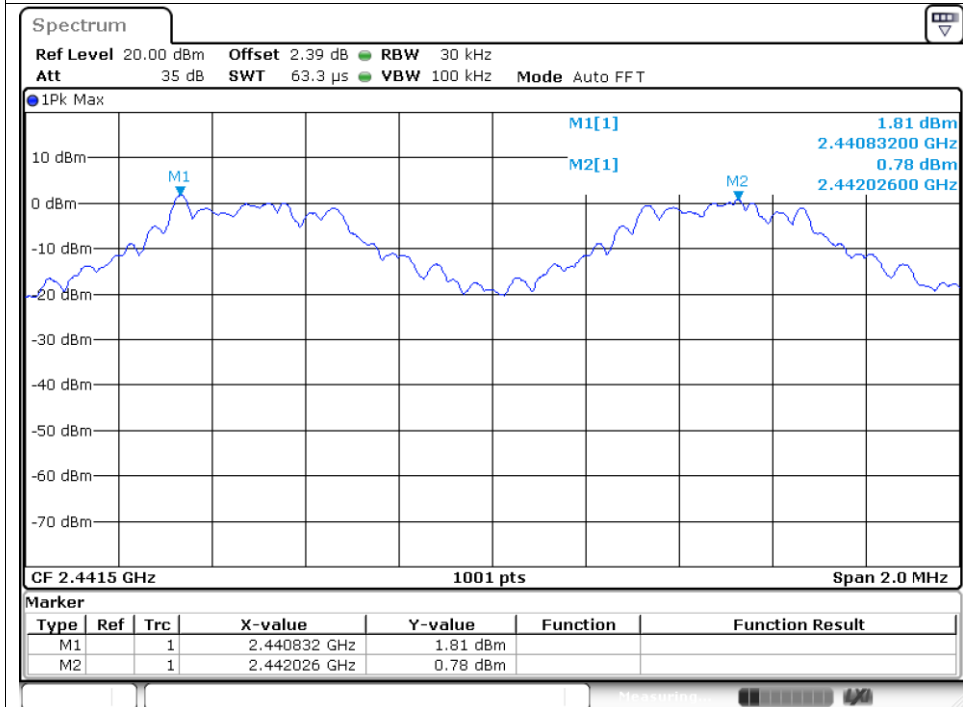
Condition	Mode	Antenna	Hopping Freq1 (MHz)	Hopping Freq2 (MHz)	HFS (MHz)	Limit (MHz)	Verdict
NVNT	1-DH5	Ant1	2402.054	2402.978	0.924	0.635	Pass
NVNT	1-DH5	Ant1	2440.832	2442.026	1.194	0.621	Pass
NVNT	1-DH5	Ant1	2479.024	2480.026	1.002	0.679	Pass
NVNT	2-DH5	Ant1	2402.004	2403.026	1.022	0.852	Pass
NVNT	2-DH5	Ant1	2441.02	2442.011	0.991	0.852	Pass
NVNT	2-DH5	Ant1	2479.01	2480.011	1.001	0.861	Pass
NVNT	3-DH5	Ant1	2401.832	2403.026	1.194	0.857	Pass
NVNT	3-DH5	Ant1	2440.893	2441.975	1.082	0.847	Pass
NVNT	3-DH5	Ant1	2479.024	2480.026	1.002	0.857	Pass

Test Graphs

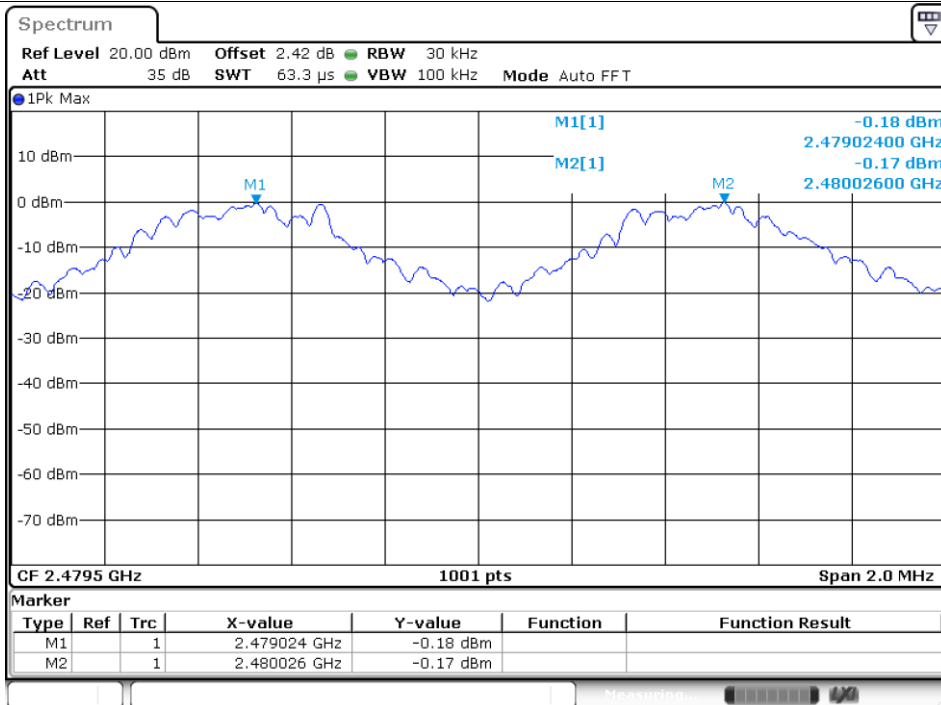
CFS NVNT 1-DH5 2402MHz Ant1



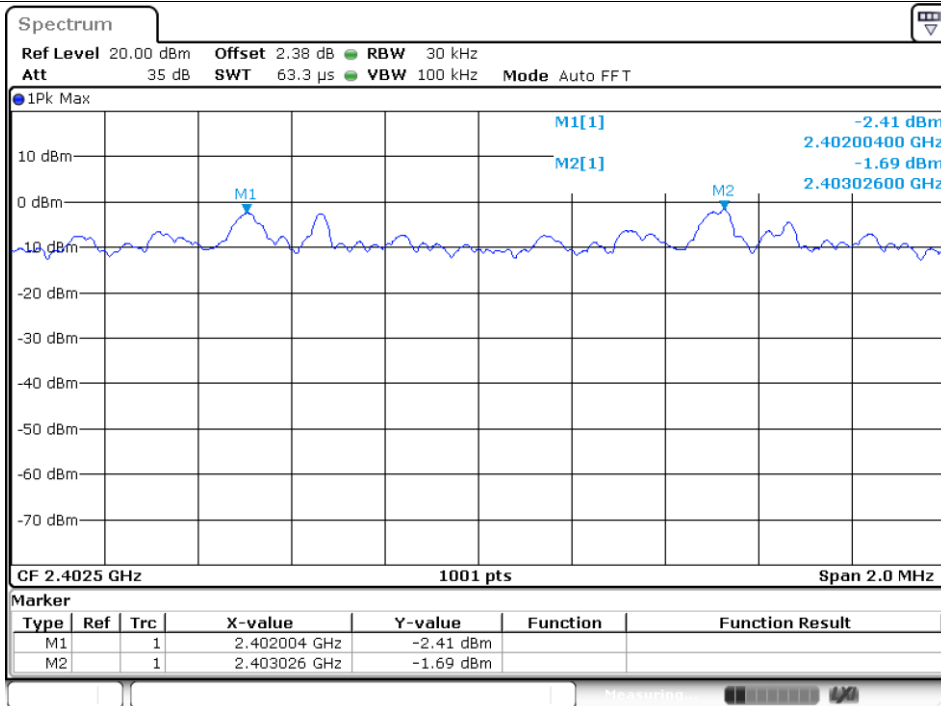
CFS NVNT 1-DH5 2441MHz Ant1



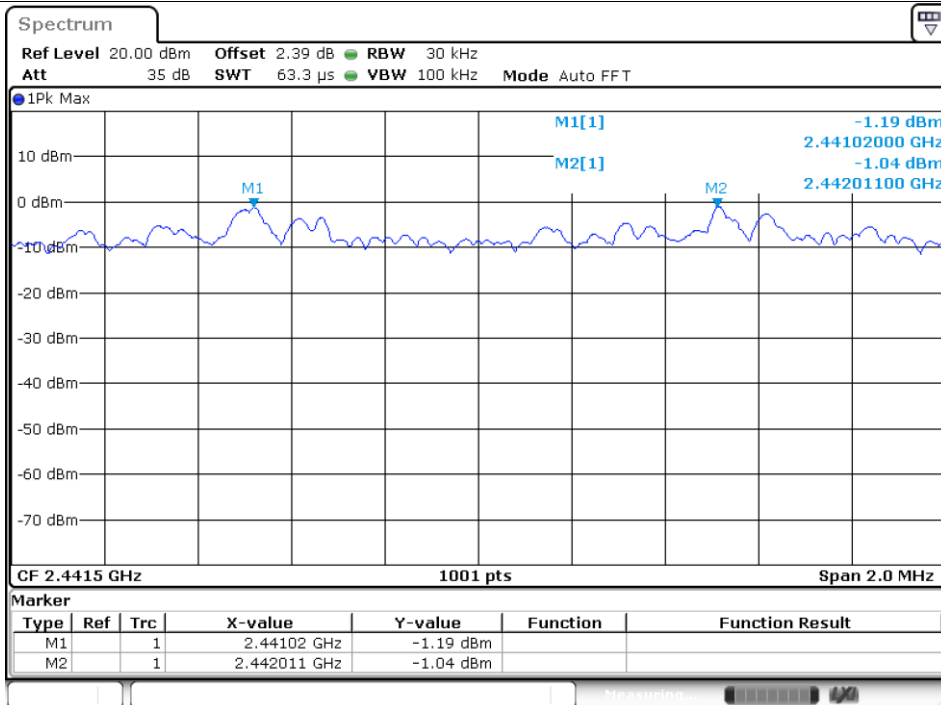
CFS NVNT 1-DH5 2480MHz Ant1



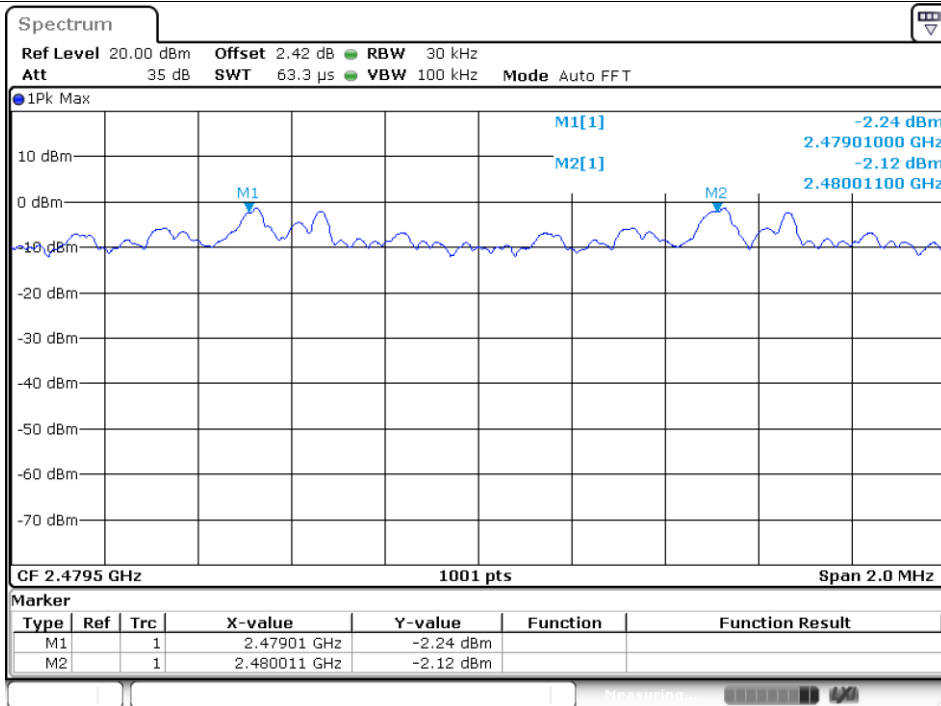
CFS NVNT 2-DH5 2402MHz Ant1



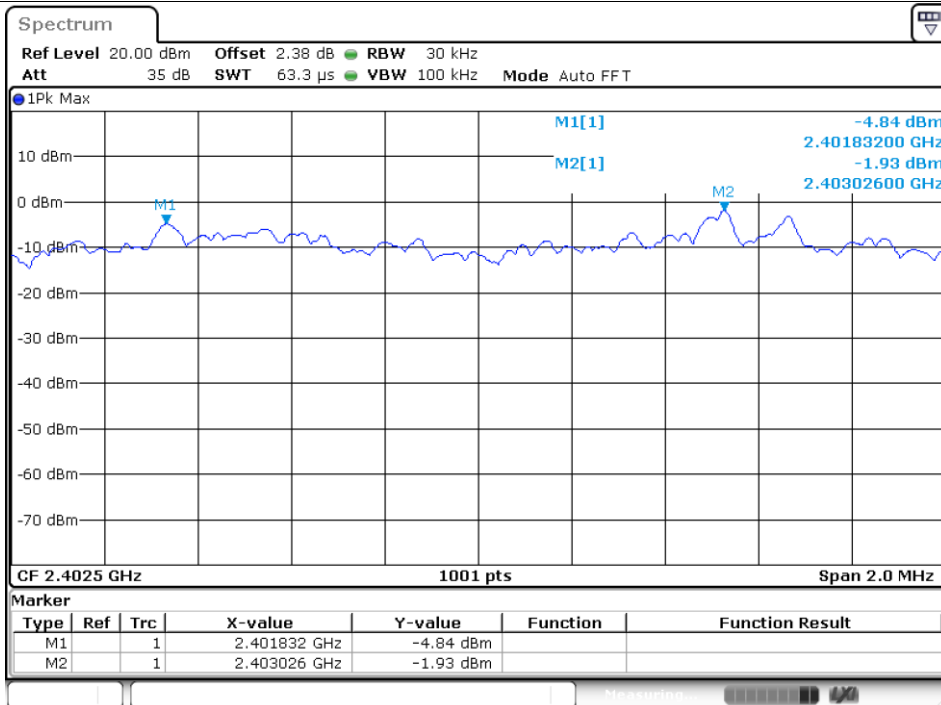
CFS NVNT 2-DH5 2441MHz Ant1



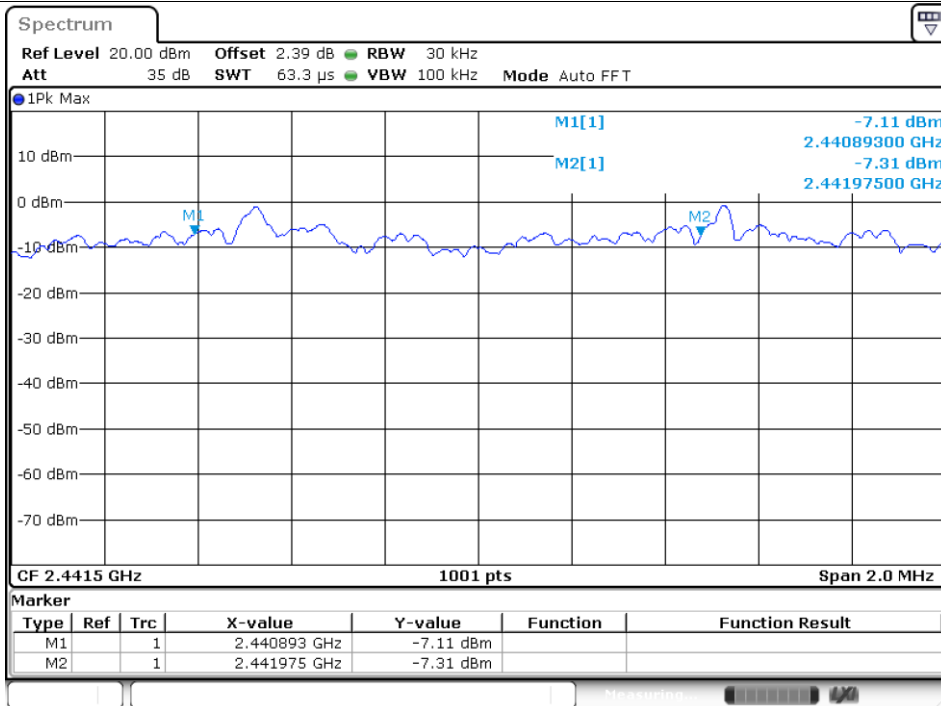
CFS NVNT 2-DH5 2480MHz Ant1

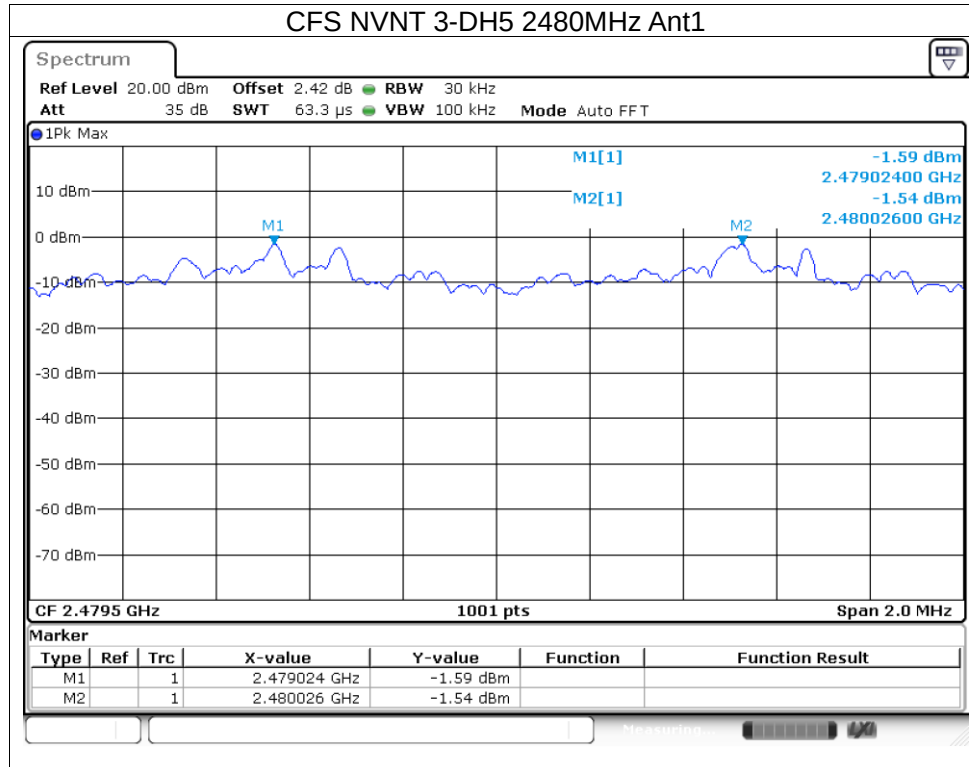


CFS NVNT 3-DH5 2402MHz Ant1



CFS NVNT 3-DH5 2441MHz Ant1



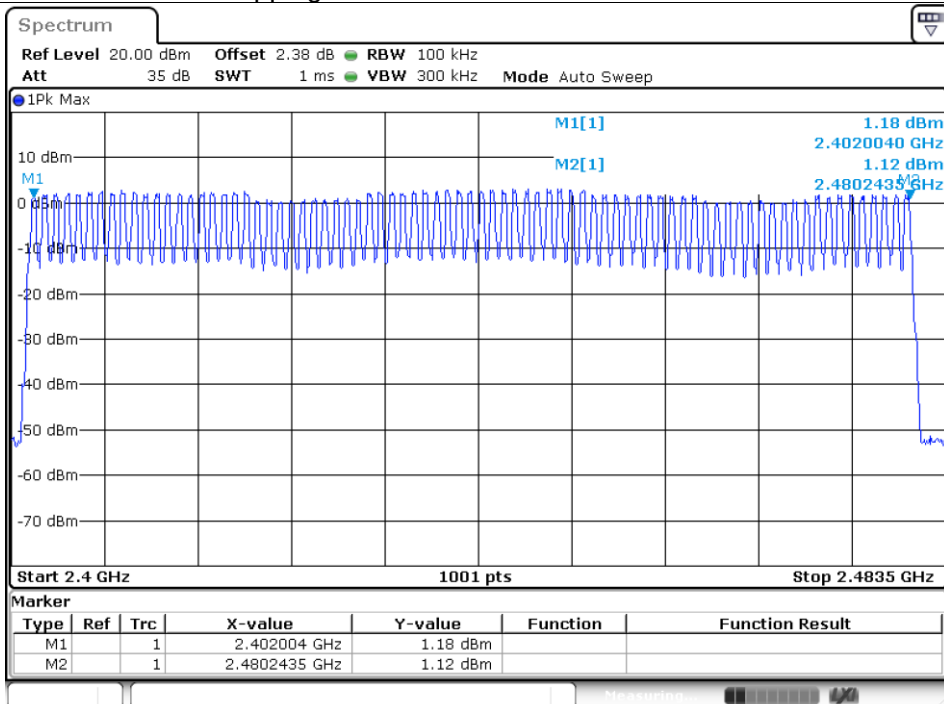


8.6 NUMBER OF HOPPING CHANNEL

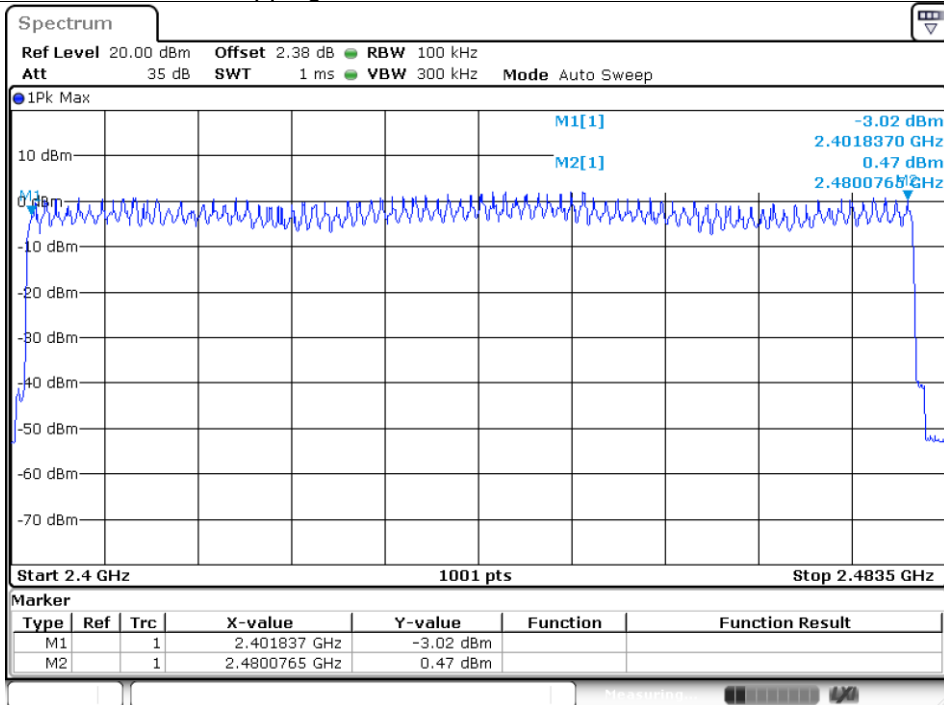
Condition	Mode	Antenna	Hopping Number	Limit	Verdict
NVNT	1-DH5	Ant1	79	15	Pass
NVNT	2-DH5	Ant1	79	15	Pass
NVNT	3-DH5	Ant1	79	15	Pass

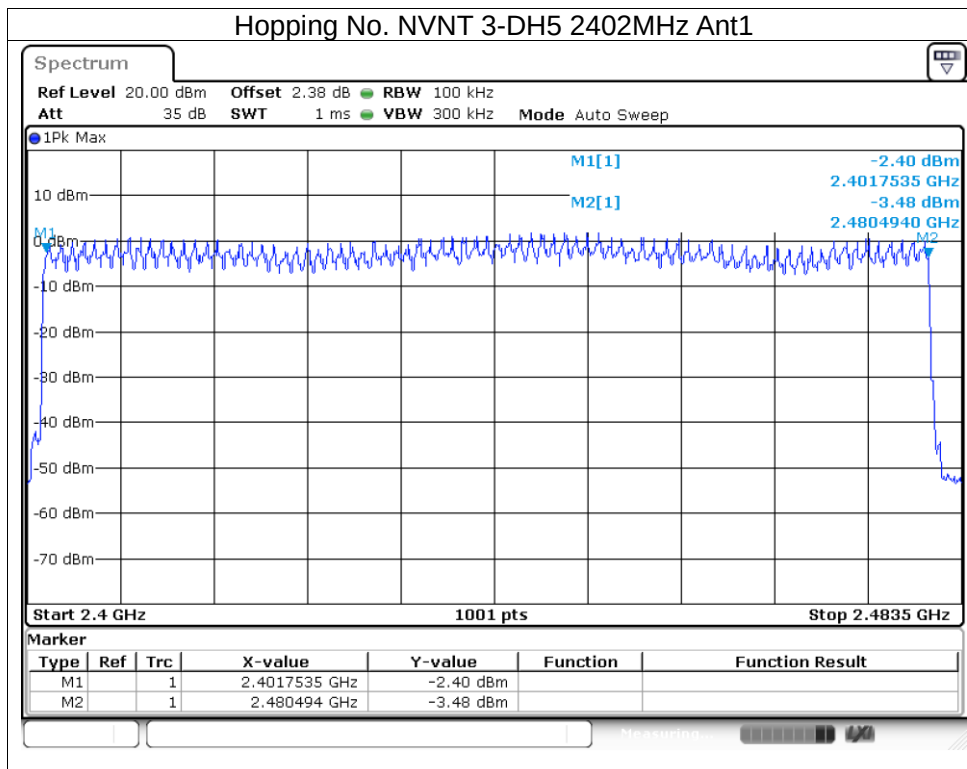
Test Graphs

Hopping No. NVNT 1-DH5 2402MHz Ant1



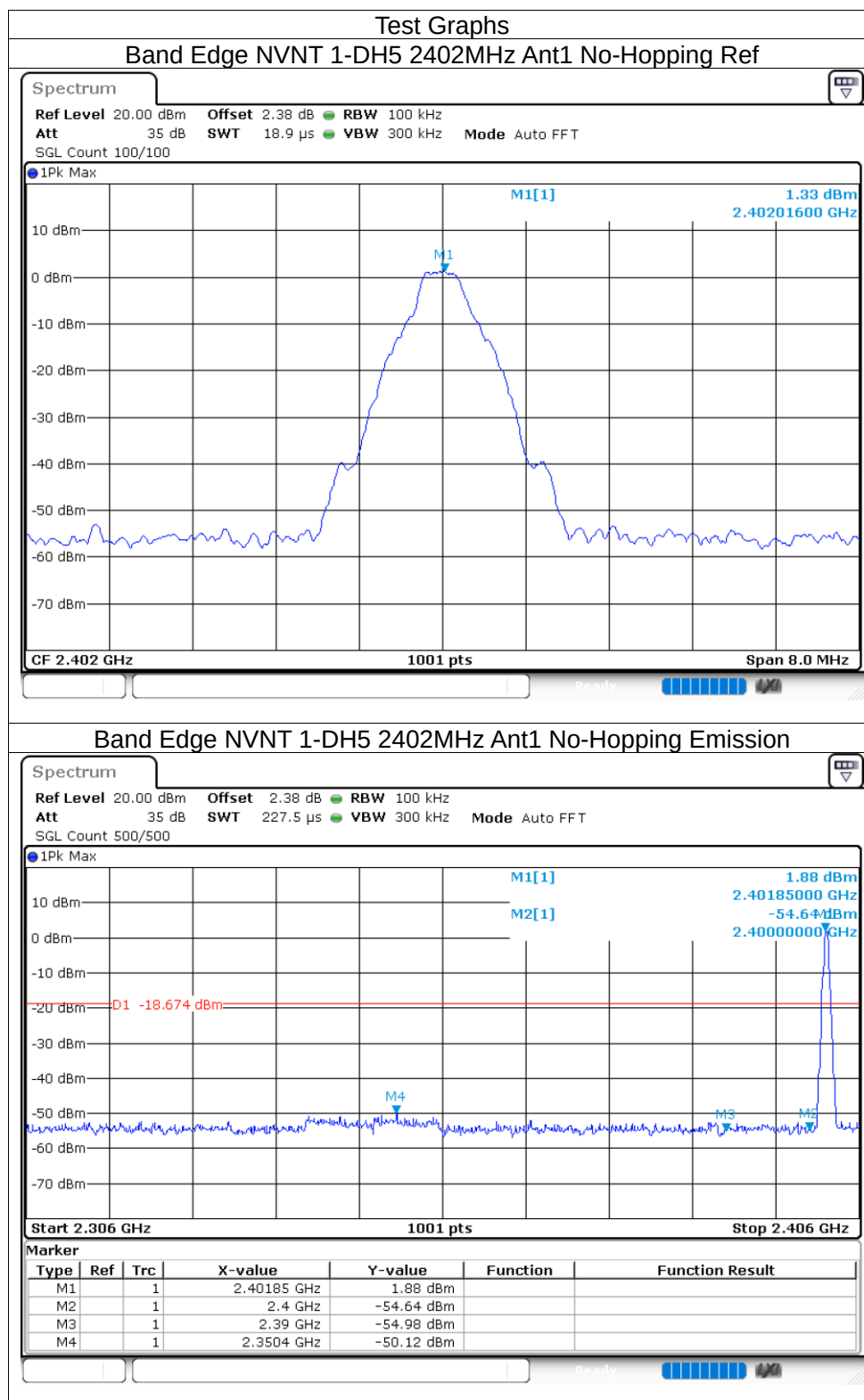
Hopping No. NVNT 2-DH5 2402MHz Ant1





8.7 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Hopping Mode	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	No-Hopping	-51.44	-20	Pass
NVNT	1-DH5	2480	Ant1	No-Hopping	-54.47	-20	Pass
NVNT	2-DH5	2402	Ant1	No-Hopping	-50	-20	Pass
NVNT	2-DH5	2480	Ant1	No-Hopping	-52.44	-20	Pass
NVNT	3-DH5	2402	Ant1	No-Hopping	-50.26	-20	Pass
NVNT	3-DH5	2480	Ant1	No-Hopping	-61.67	-20	Pass

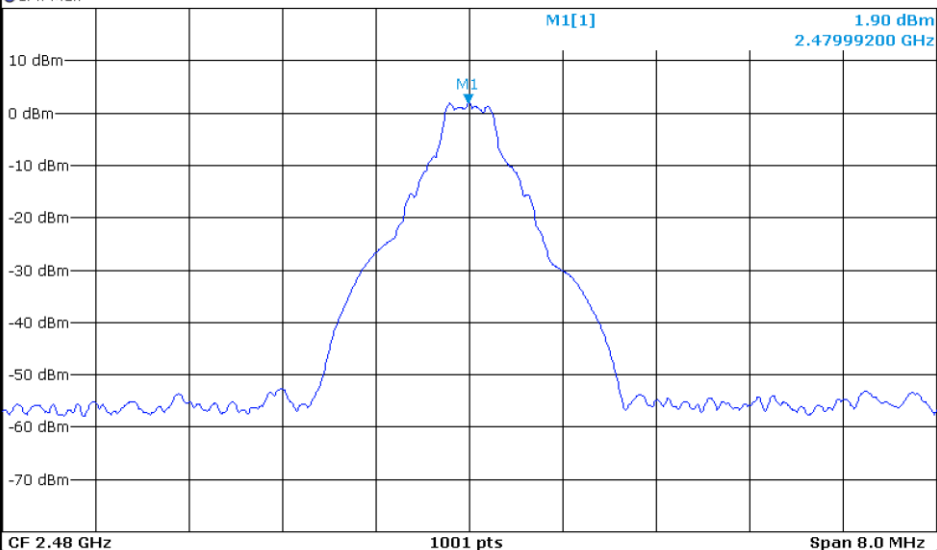


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Ref

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

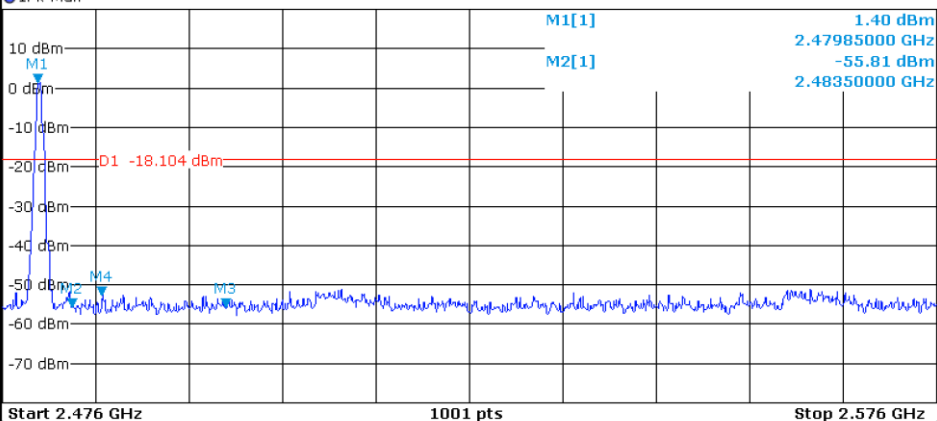


Band Edge NVNT 1-DH5 2480MHz Ant1 No-Hopping Emission

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

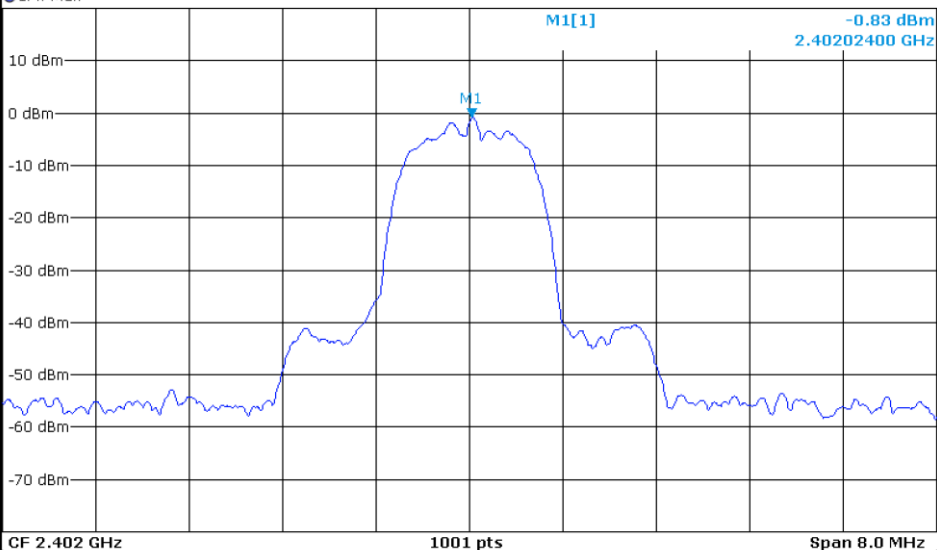
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	1.40 dBm		
M2		1	2.4835 GHz	-55.81 dBm		
M3		1	2.5 GHz	-55.69 dBm		
M4		1	2.4867 GHz	-52.58 dBm		

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

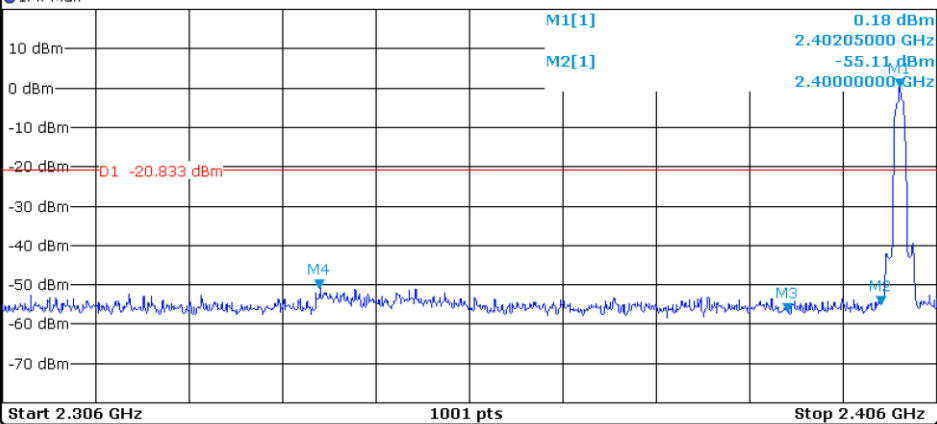


Band Edge NVNT 2-DH5 2402MHz Ant1 No-Hopping Emission

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

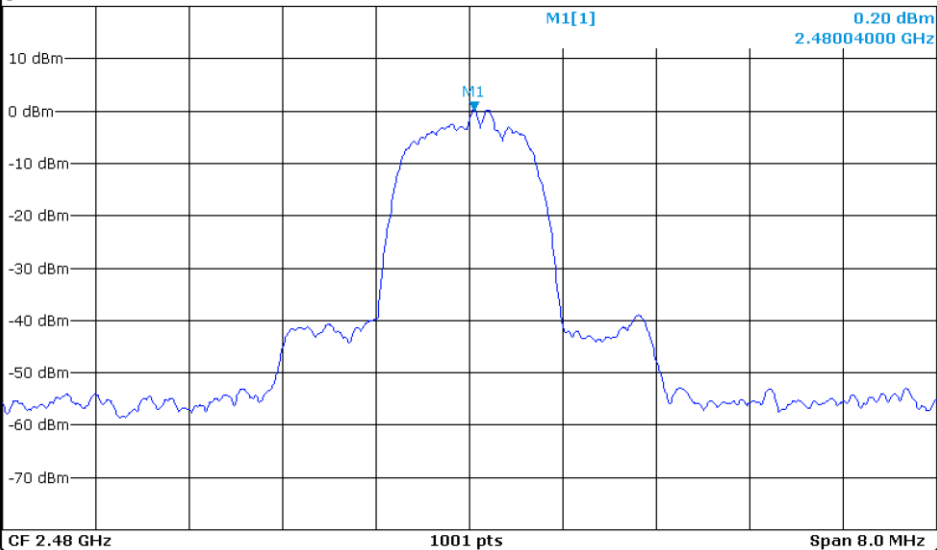
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	0.18 dBm		
M2		1	2.4 GHz	-55.11 dBm		
M3		1	2.39 GHz	-56.83 dBm		
M4		1	2.34 GHz	-50.83 dBm		

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

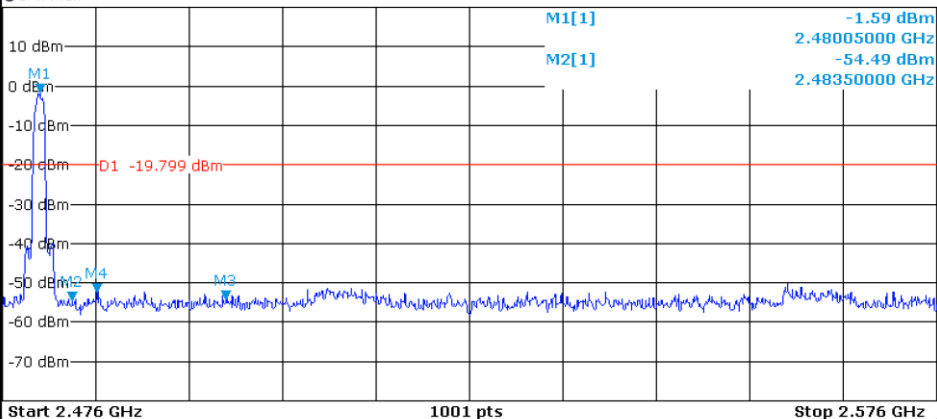


Band Edge NVNT 2-DH5 2480MHz Ant1 No-Hopping Emission

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

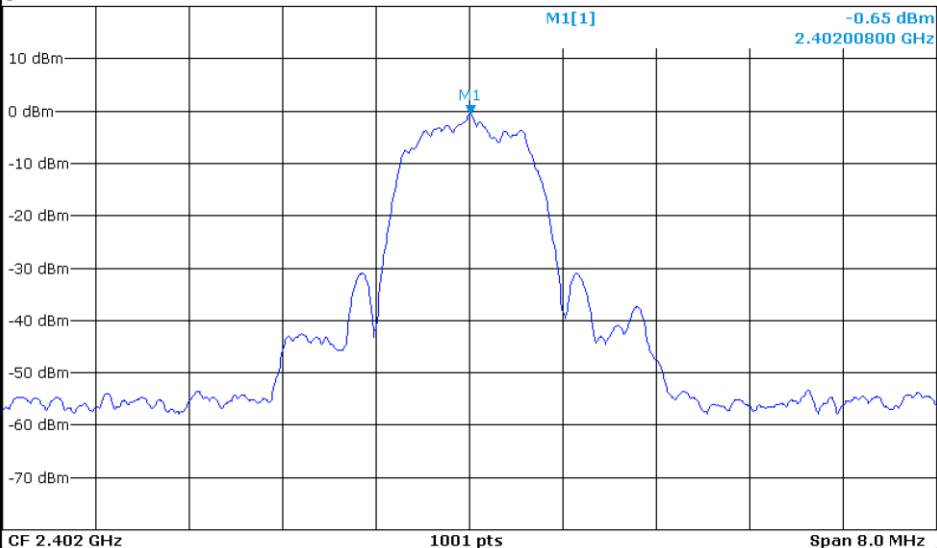
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48005 GHz	-1.59 dBm		
M2		1	2.4835 GHz	-54.49 dBm		
M3		1	2.5 GHz	-54.32 dBm		
M4		1	2.4862 GHz	-52.24 dBm		

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

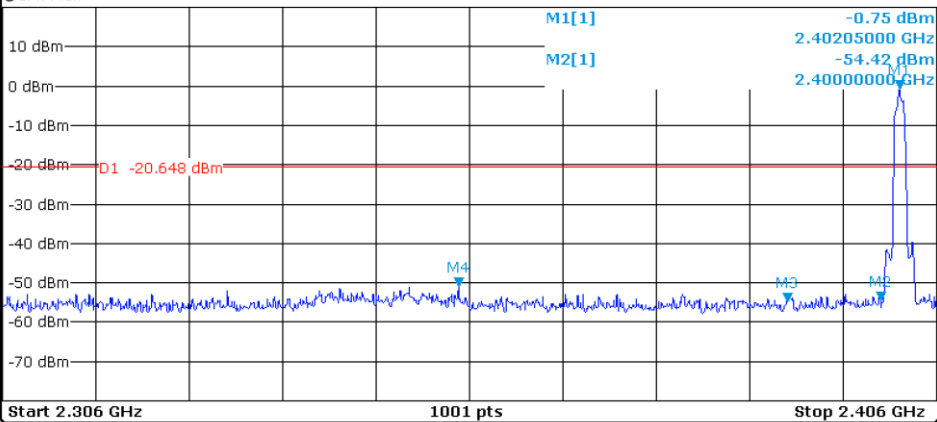


Band Edge NVNT 3-DH5 2402MHz Ant1 No-Hopping Emission

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

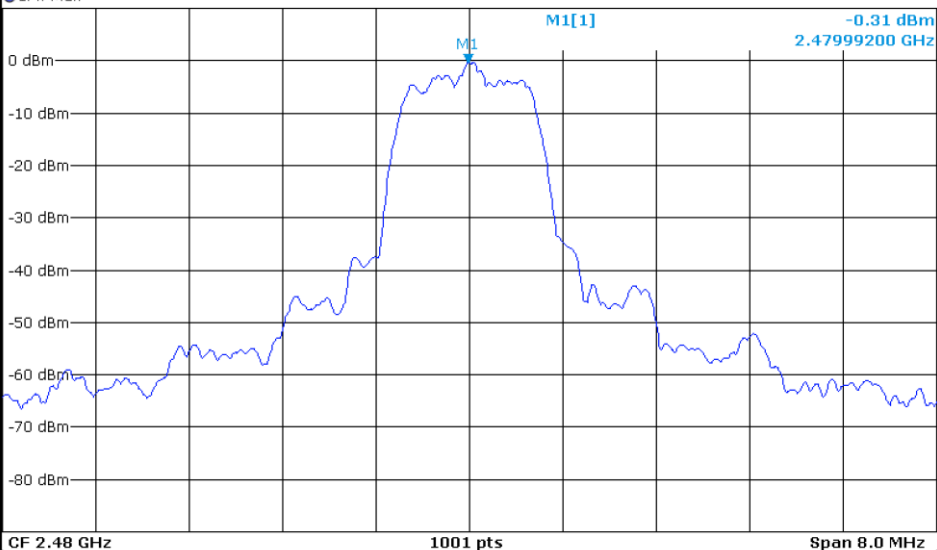
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40205 GHz	-0.75 dBm		
M2	1		2.4 GHz	-54.42 dBm		
M3	1		2.39 GHz	-54.68 dBm		
M4	1		2.3548 GHz	-50.92 dBm		

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

Spectrum

Ref Level 10.00 dBm Offset 2.42 dB RBW 100 kHz
Att 25 dB SWT 18.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

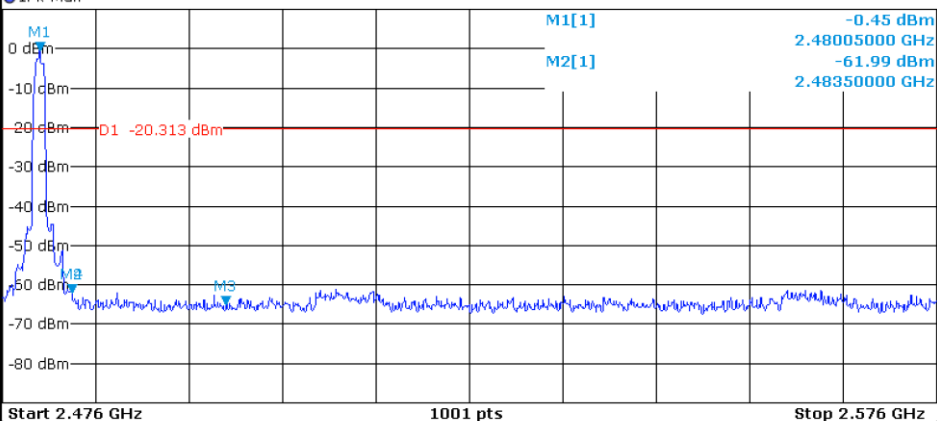


Band Edge NVNT 3-DH5 2480MHz Ant1 No-Hopping Emission

Spectrum

Ref Level 10.00 dBm Offset 2.42 dB RBW 100 kHz
Att 25 dB SWT 227.5 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

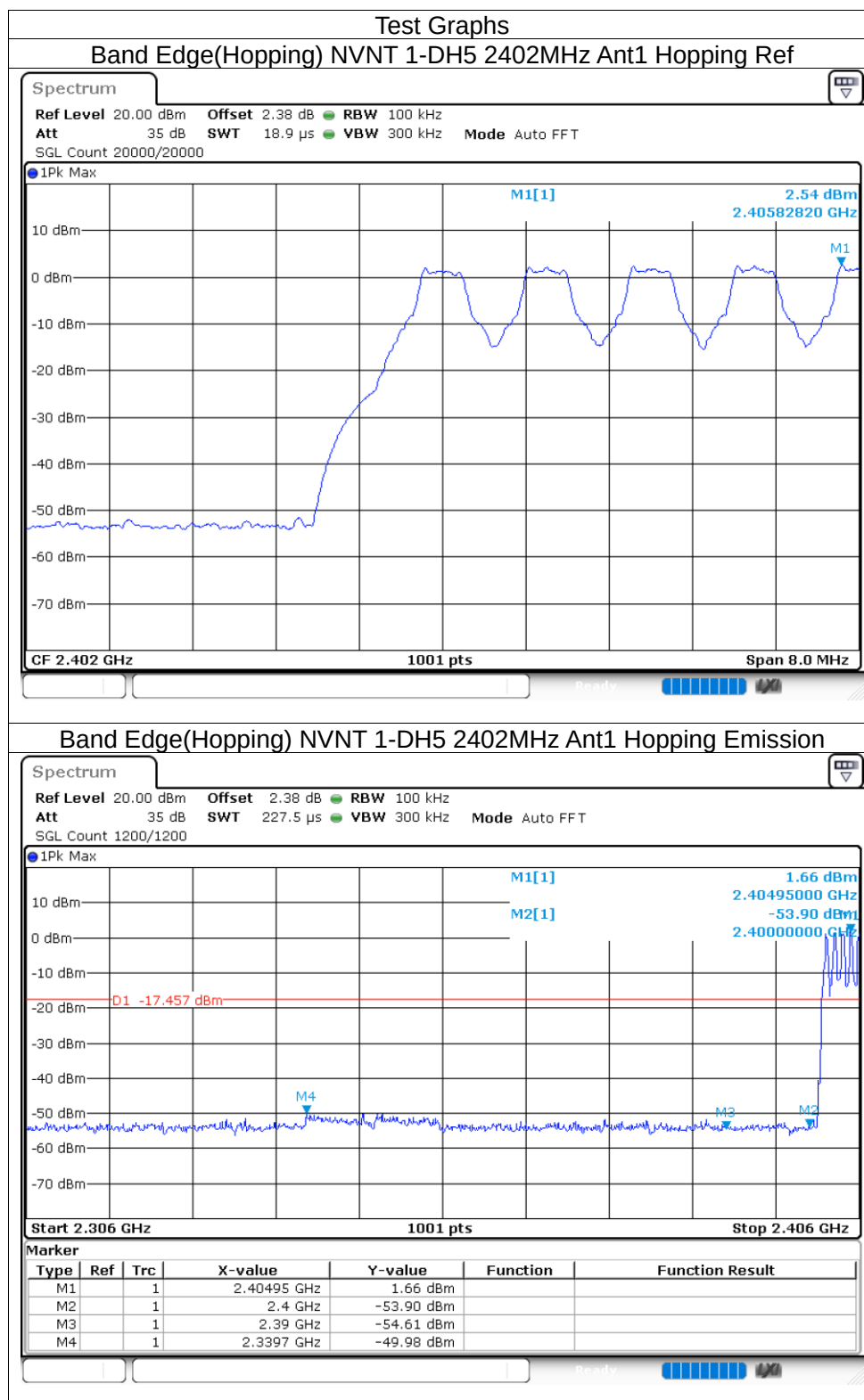


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.48005 GHz	-0.45 dBm		
M2		1	2.4835 GHz	-61.99 dBm		
M3		1	2.5 GHz	-65.19 dBm		
M4		1	2.4835 GHz	-61.99 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	-52.52	-20	Pass
NVNT	1-DH5	2480	Ant1	Hopping	-53.07	-20	Pass
NVNT	2-DH5	2402	Ant1	Hopping	-51.27	-20	Pass
NVNT	2-DH5	2480	Ant1	Hopping	-52.73	-20	Pass
NVNT	3-DH5	2402	Ant1	Hopping	-50.84	-20	Pass
NVNT	3-DH5	2480	Ant1	Hopping	-51.88	-20	Pass

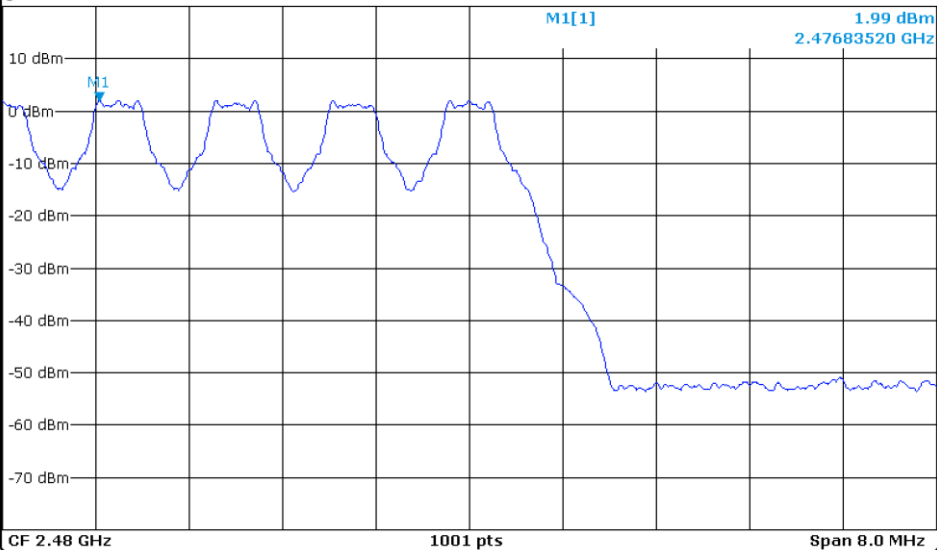


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Ref

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 20000/20000

1Pk Max

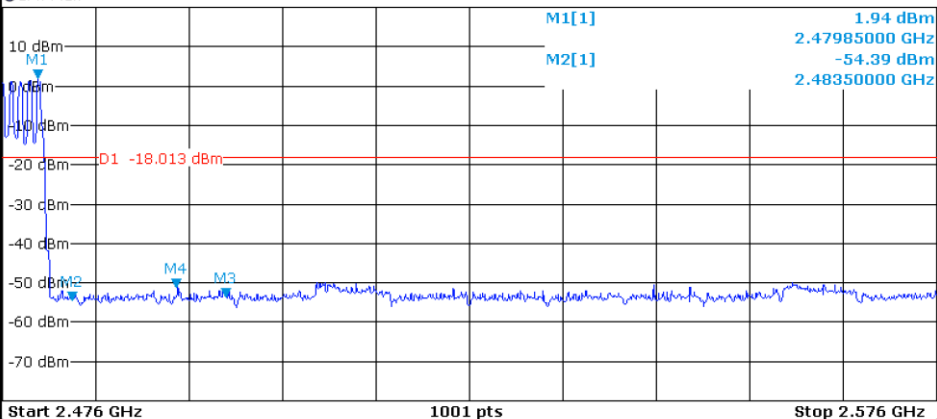


Band Edge(Hopping) NVNT 1-DH5 2480MHz Ant1 Hopping Emission

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

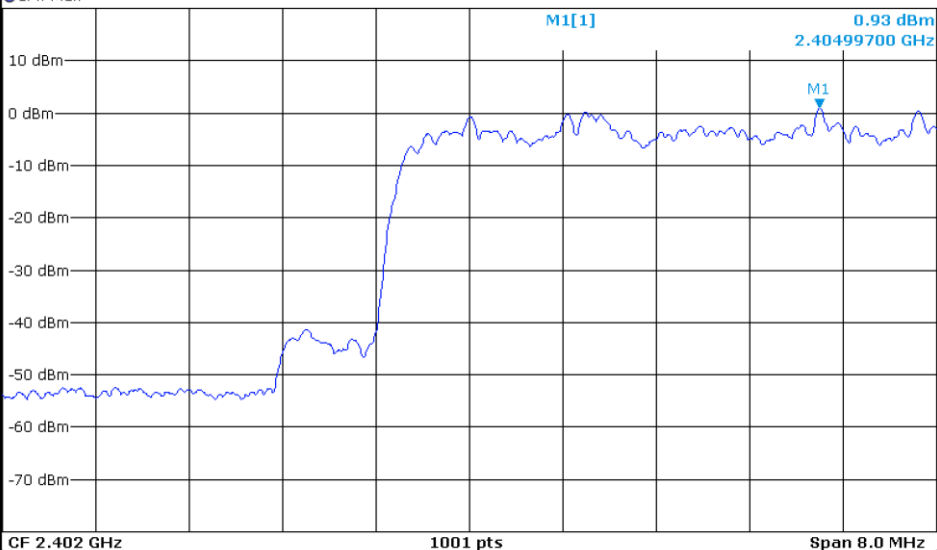
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47985 GHz	1.94 dBm		
M2		1	2.4835 GHz	-54.39 dBm		
M3		1	2.5 GHz	-53.45 dBm		
M4		1	2.4947 GHz	-51.08 dBm		

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

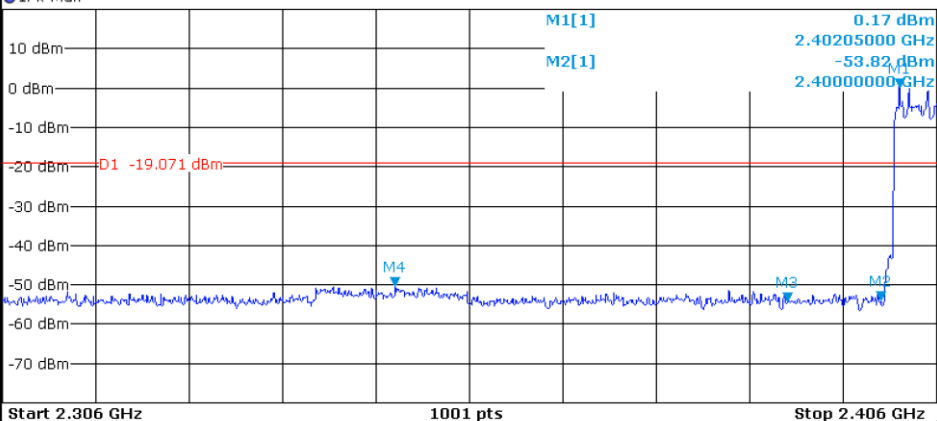


Band Edge(Hopping) NVNT 2-DH5 2402MHz Ant1 Hopping Emission

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



Marker

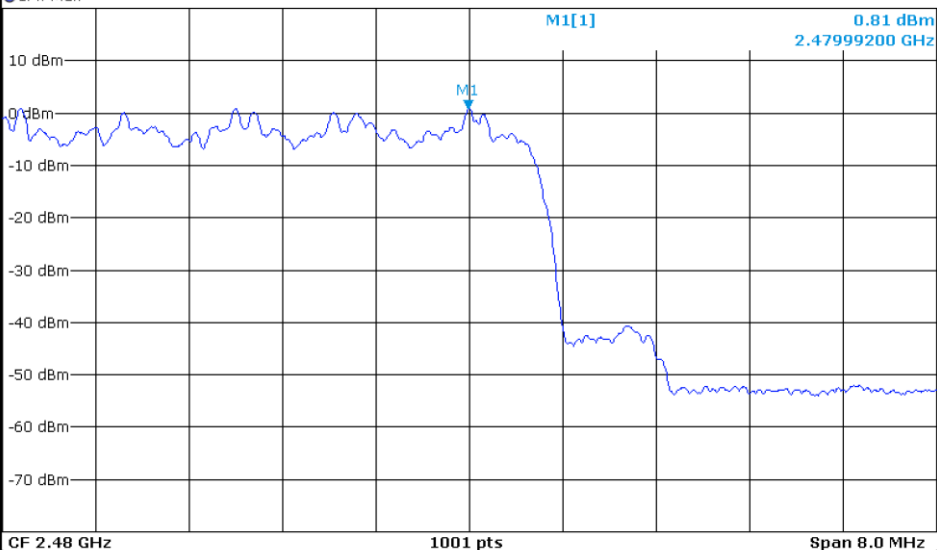
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40205 GHz	0.17 dBm		
M2		1	2.4 GHz	-53.82 dBm		
M3		1	2.39 GHz	-54.16 dBm		
M4		1	2.348 GHz	-50.34 dBm		

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

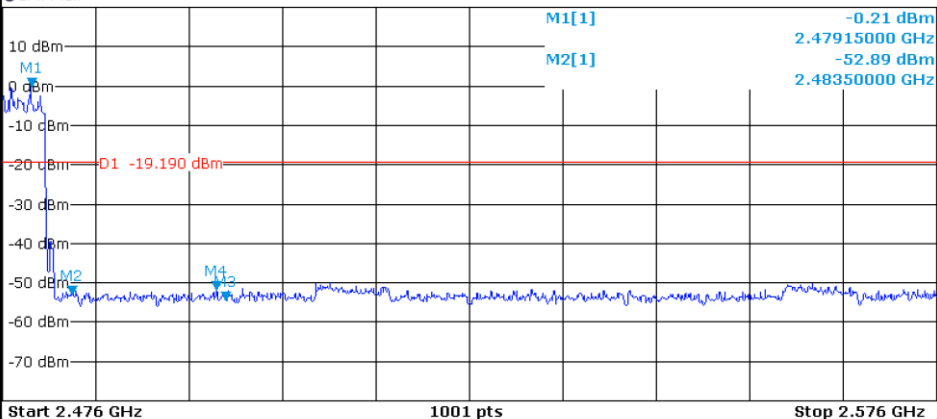


Band Edge(Hopping) NVNT 2-DH5 2480MHz Ant1 Hopping Emission

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

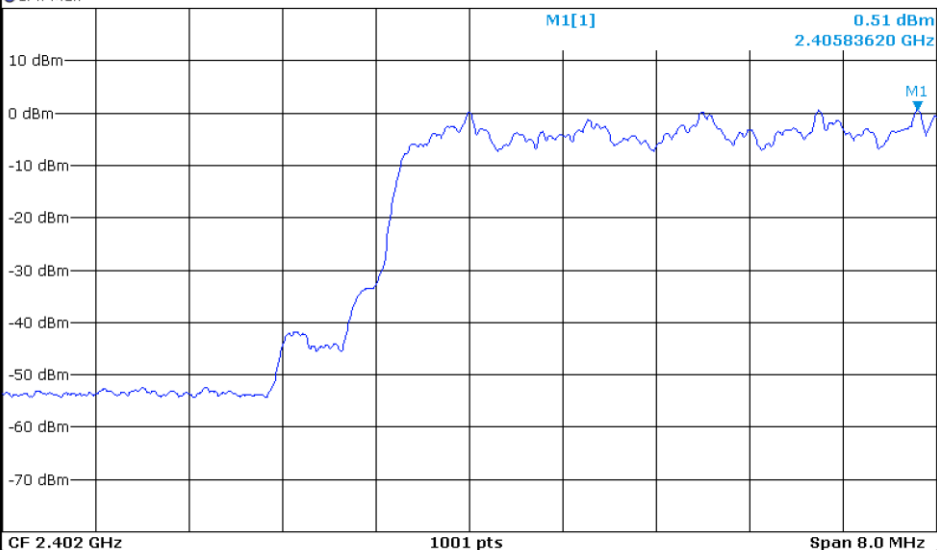
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.47915 GHz	-0.21 dBm		
M2	1		2.4835 GHz	-52.89 dBm		
M3	1		2.5 GHz	-54.44 dBm		
M4	1		2.4989 GHz	-51.92 dBm		

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

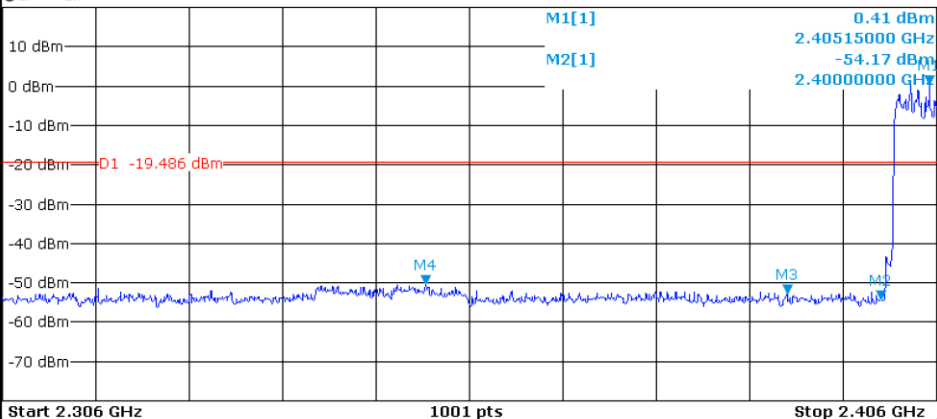


Band Edge(Hopping) NVNT 3-DH5 2402MHz Ant1 Hopping Emission

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

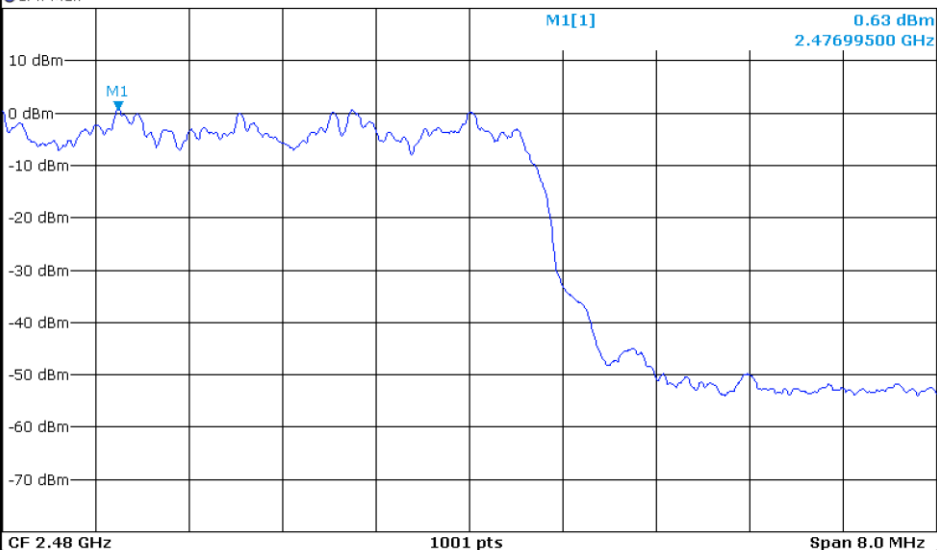
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40515 GHz	0.41 dBm		
M2	1		2.4 GHz	-54.17 dBm		
M3	1		2.39 GHz	-52.61 dBm		
M4	1		2.3513 GHz	-50.33 dBm		

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

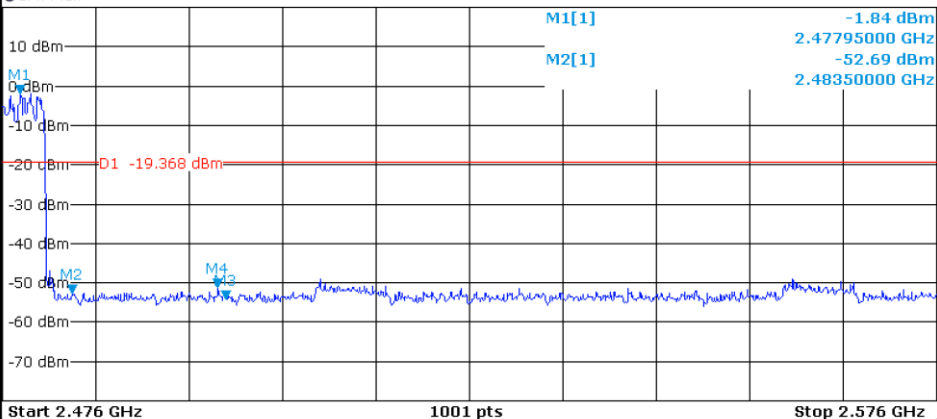


Band Edge(Hopping) NVNT 3-DH5 2480MHz Ant1 Hopping Emission

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



Start 2.476 GHz

1001 pts

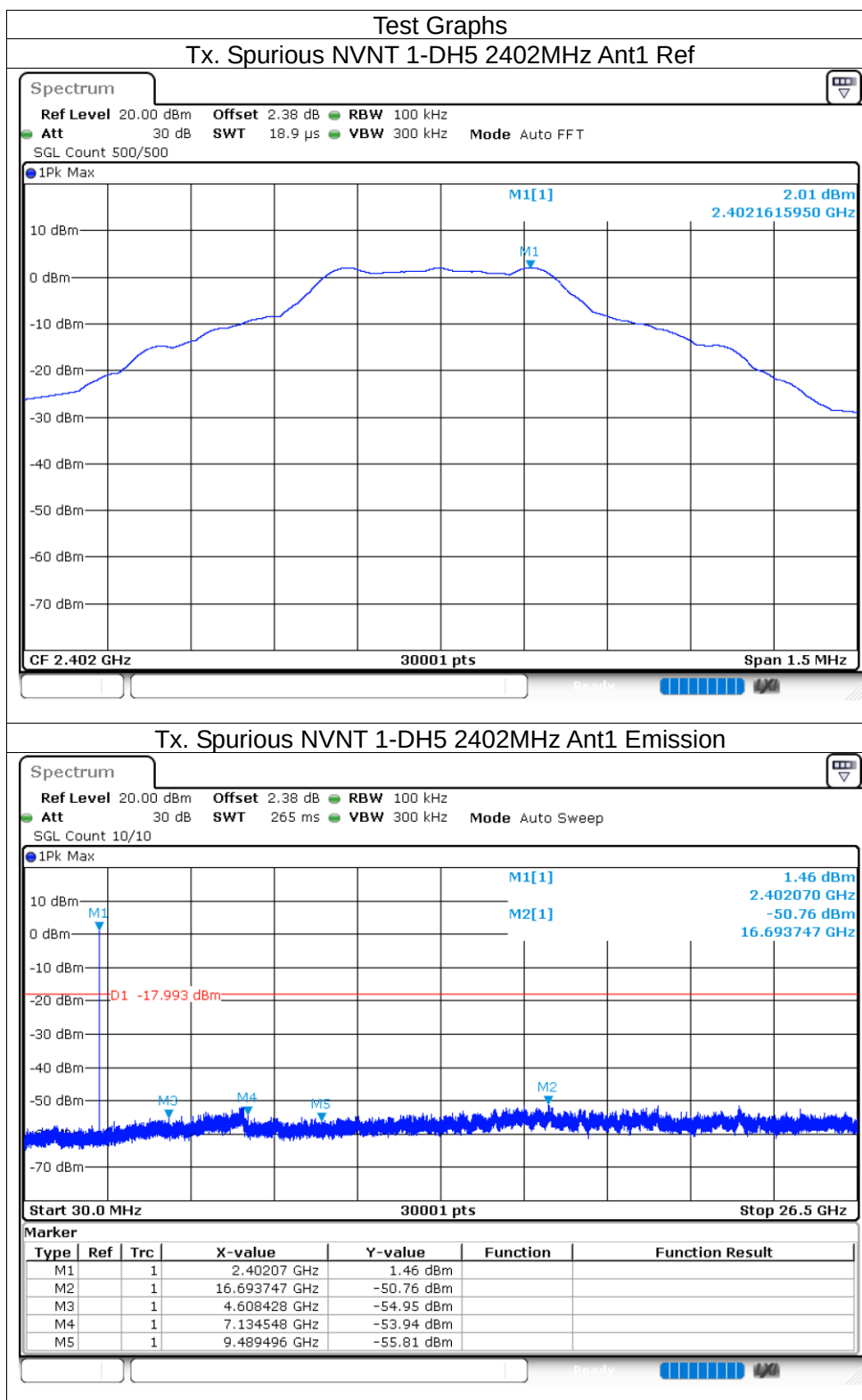
Stop 2.576 GHz

Marker

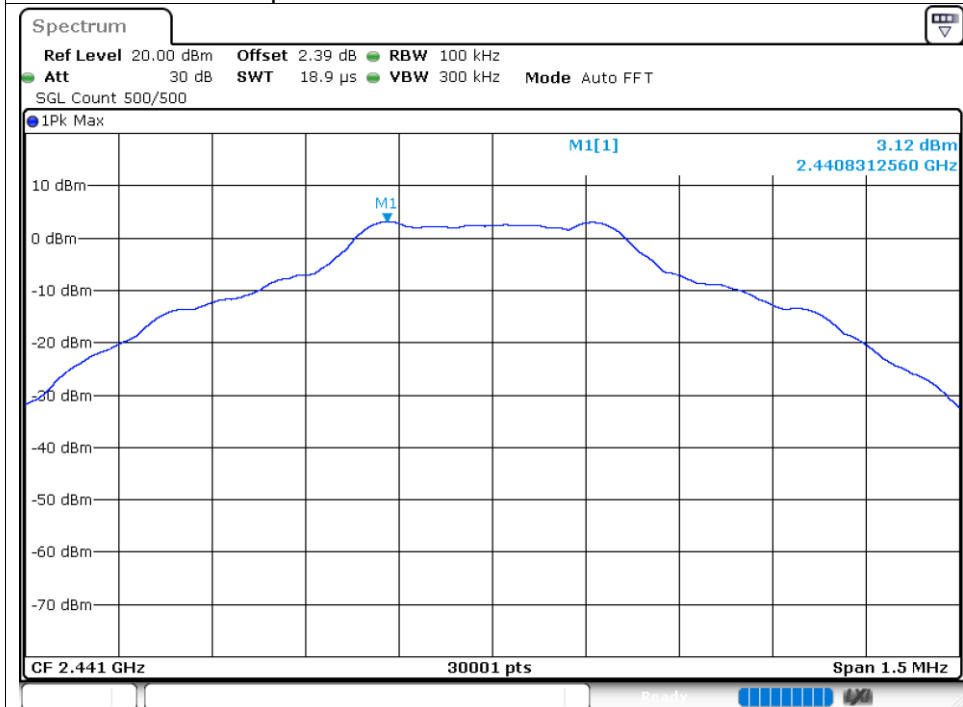
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47795 GHz	-1.84 dBm		
M2		1	2.4835 GHz	-52.69 dBm		
M3		1	2.5 GHz	-54.04 dBm		
M4		1	2.4991 GHz	-51.25 dBm		

8.9 CONDUCTED RF SPURIOUS EMISSION

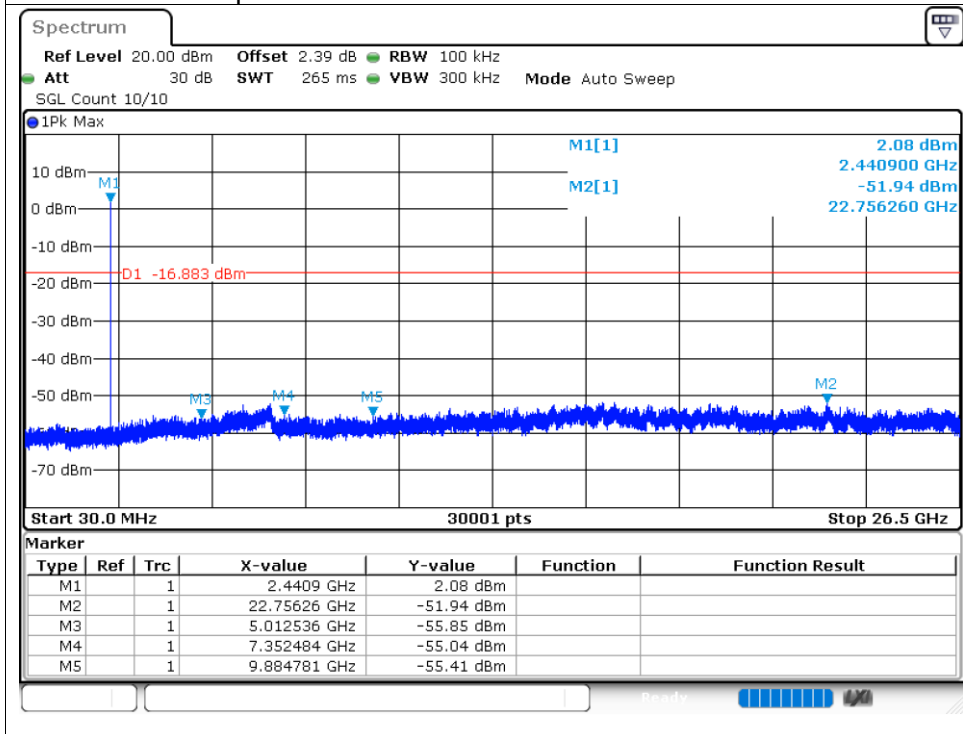
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	1-DH5	2402	Ant1	-52.77	-20	Pass
NVNT	1-DH5	2441	Ant1	-55.05	-20	Pass
NVNT	1-DH5	2480	Ant1	-52.62	-20	Pass
NVNT	2-DH5	2402	Ant1	-51.81	-20	Pass
NVNT	2-DH5	2441	Ant1	-52.32	-20	Pass
NVNT	2-DH5	2480	Ant1	-51.48	-20	Pass
NVNT	3-DH5	2402	Ant1	-50.94	-20	Pass
NVNT	3-DH5	2441	Ant1	-52.25	-20	Pass
NVNT	3-DH5	2480	Ant1	-46.25	-20	Pass



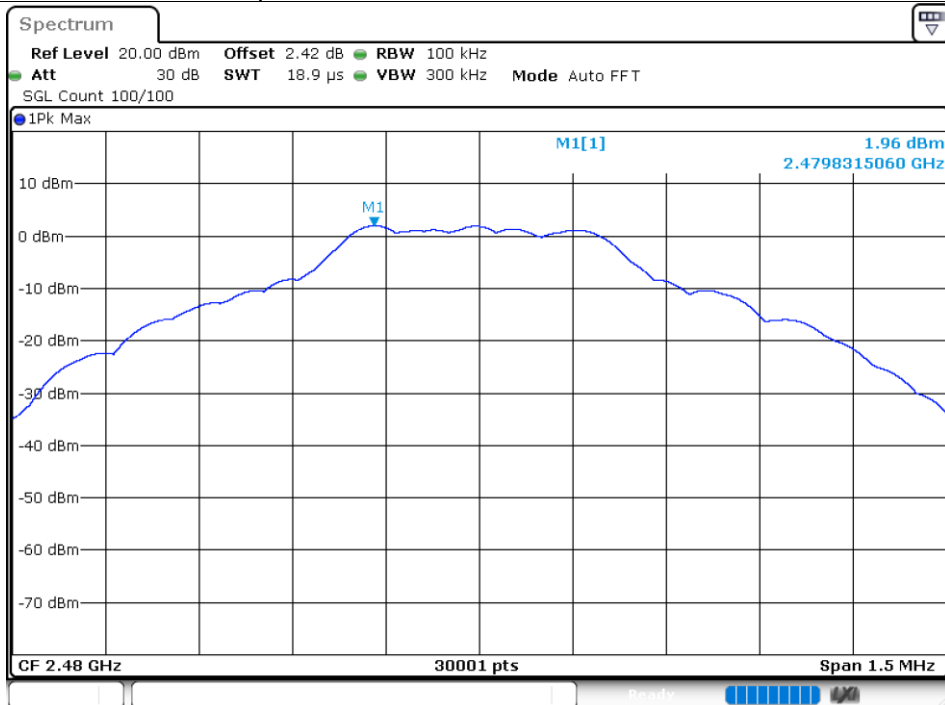
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Ref



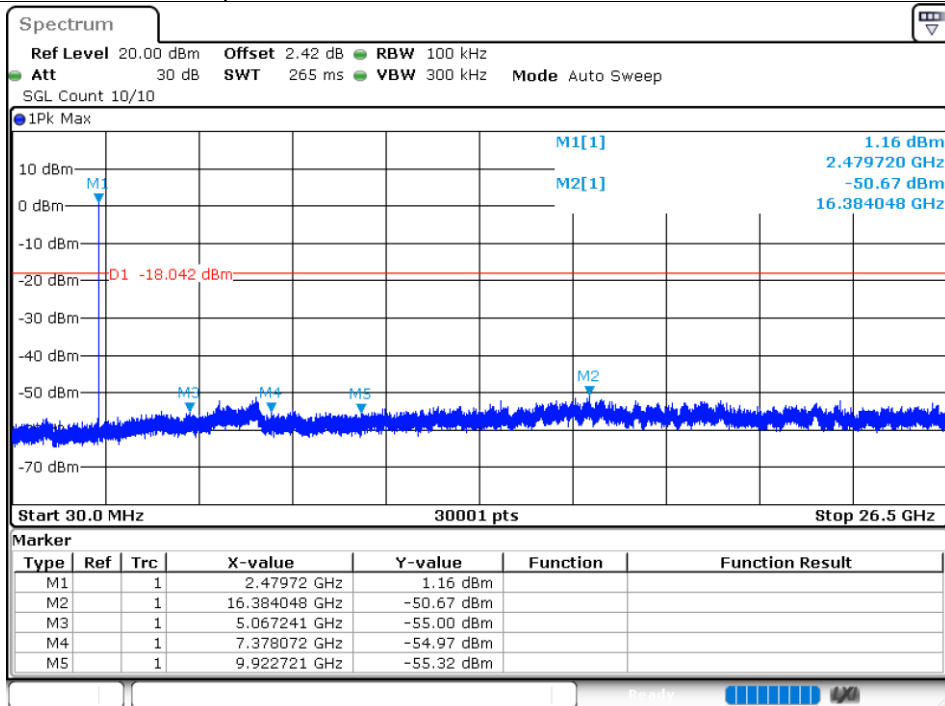
Tx. Spurious NVNT 1-DH5 2441MHz Ant1 Emission



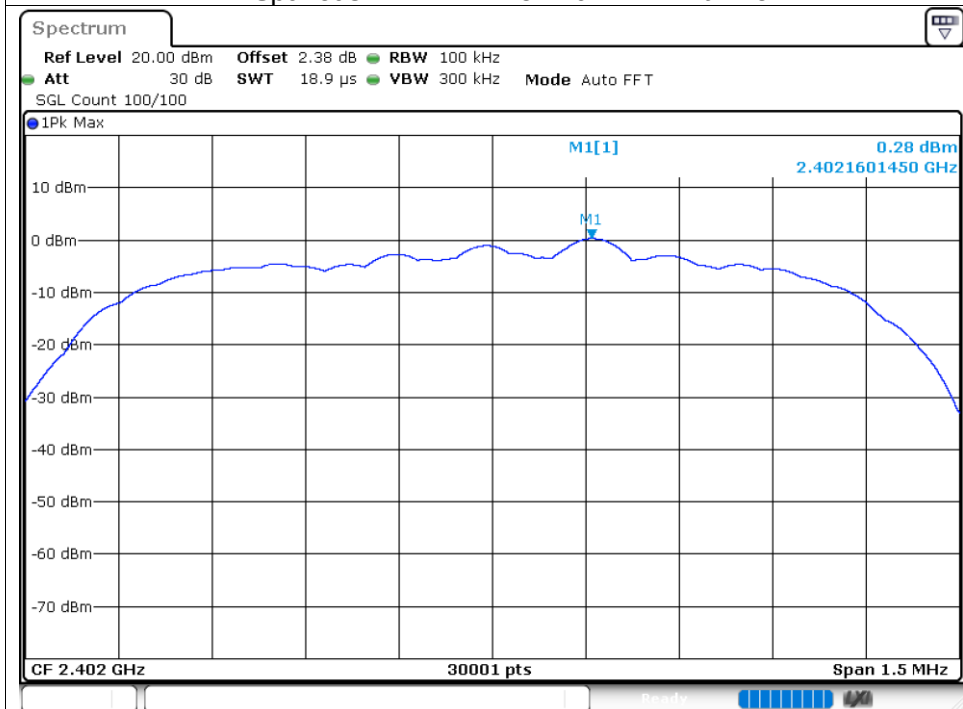
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Ref



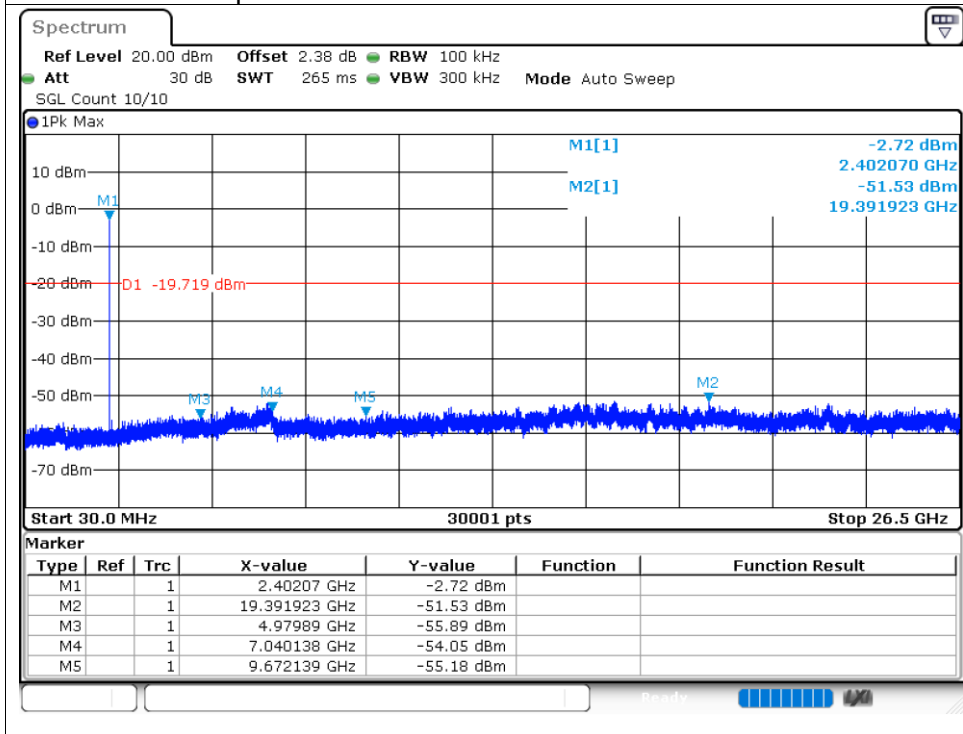
Tx. Spurious NVNT 1-DH5 2480MHz Ant1 Emission



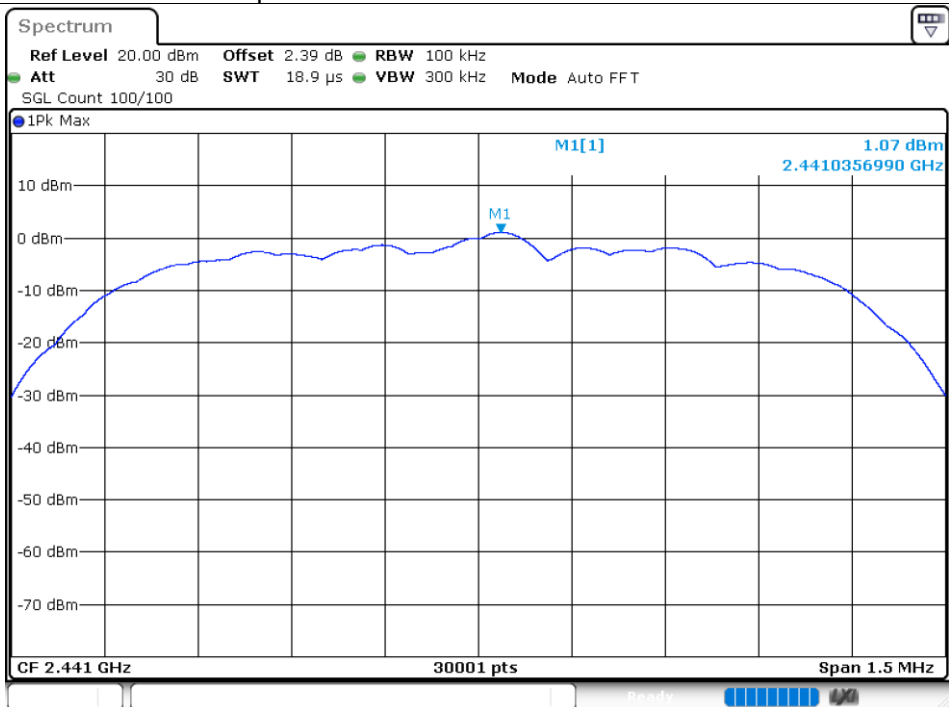
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Ref



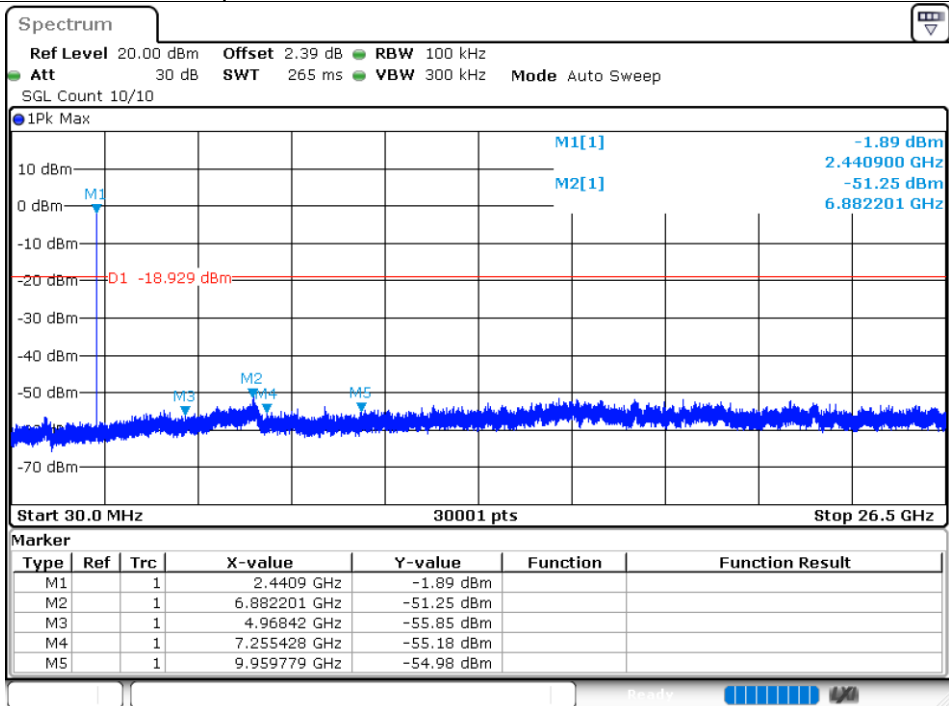
Tx. Spurious NVNT 2-DH5 2402MHz Ant1 Emission



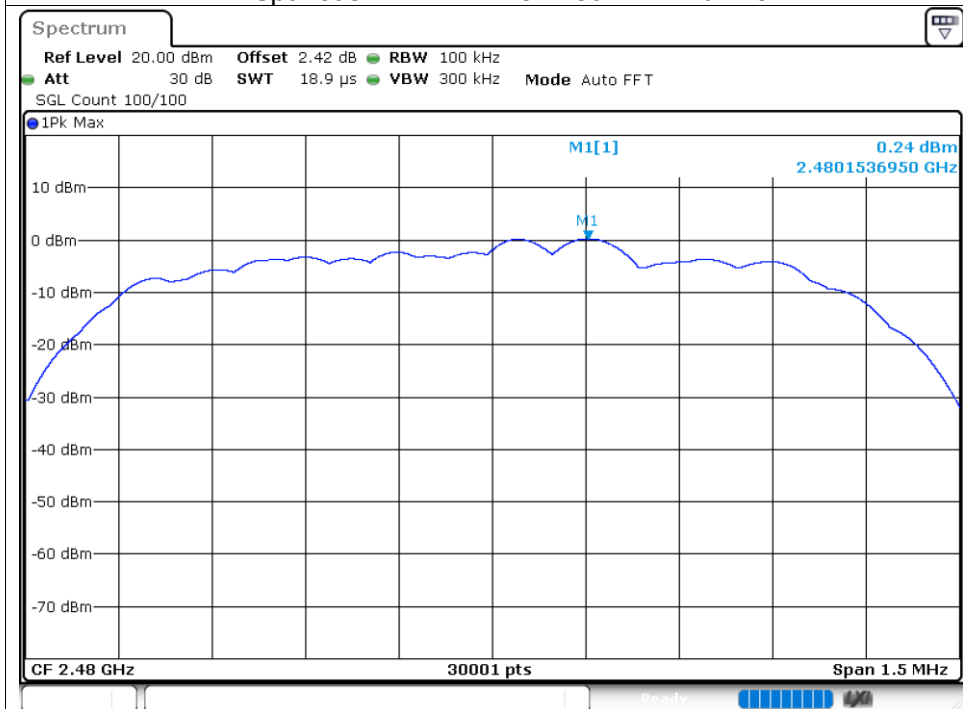
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Ref



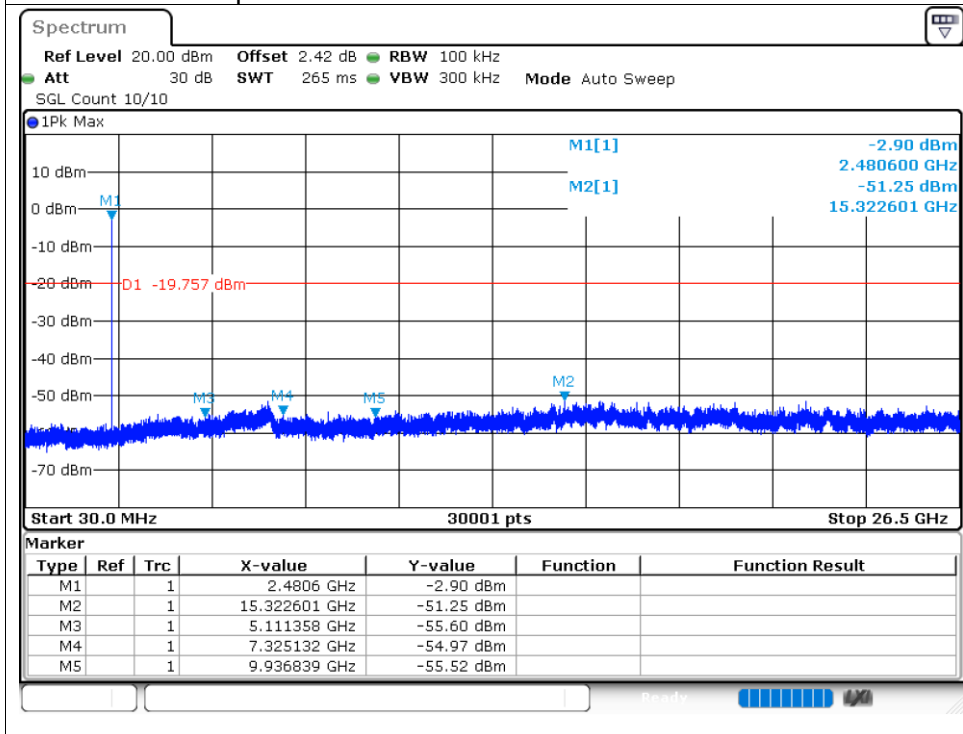
Tx. Spurious NVNT 2-DH5 2441MHz Ant1 Emission



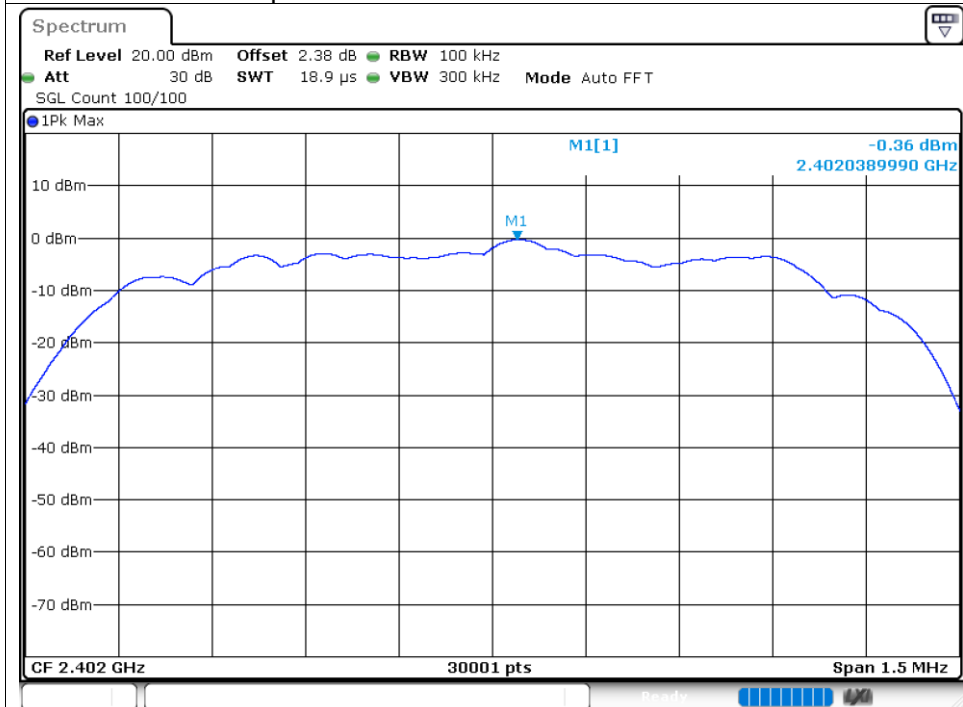
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Ref



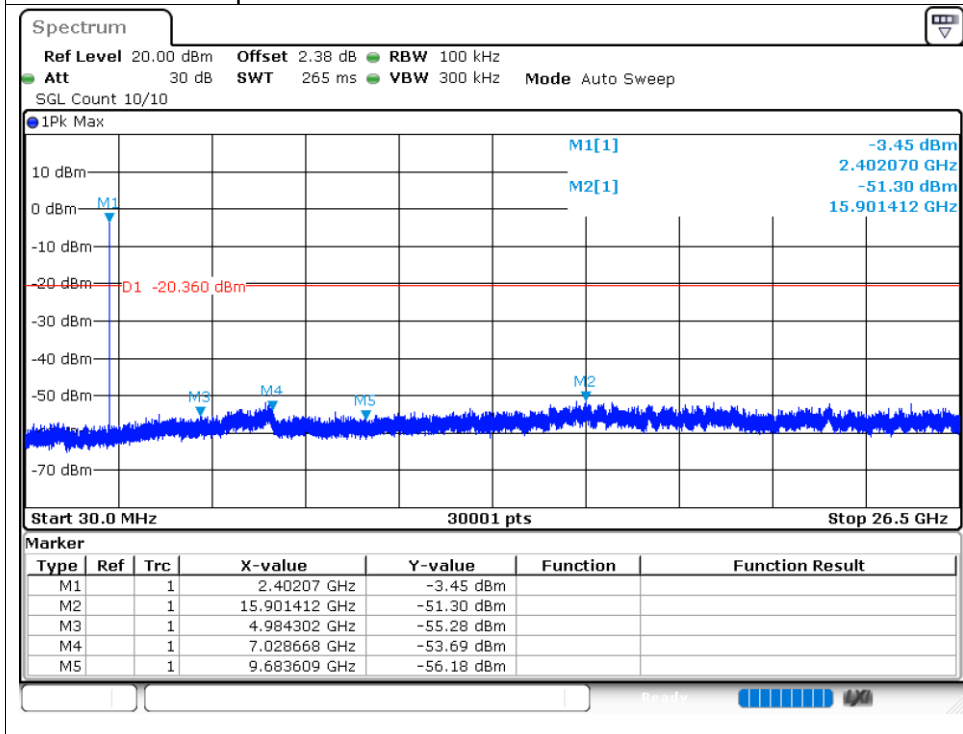
Tx. Spurious NVNT 2-DH5 2480MHz Ant1 Emission



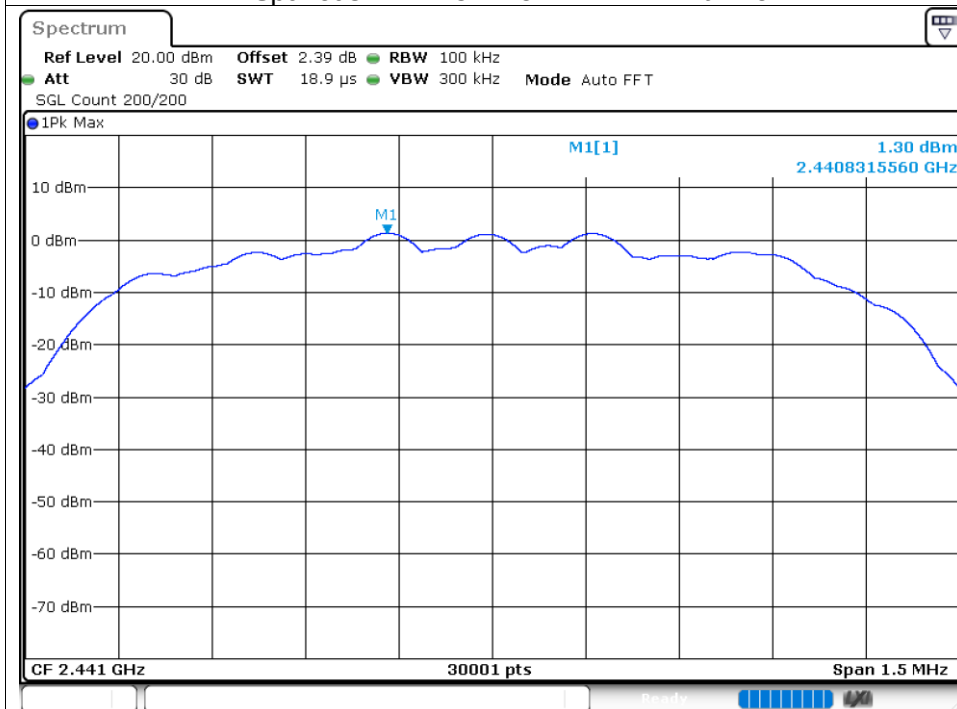
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Ref



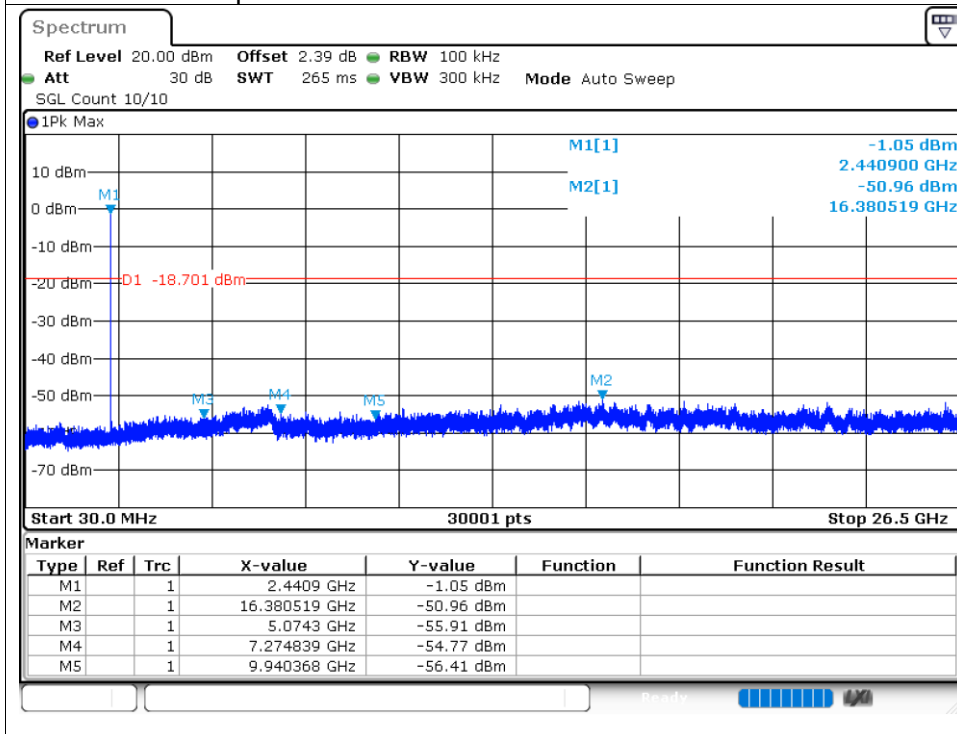
Tx. Spurious NVNT 3-DH5 2402MHz Ant1 Emission



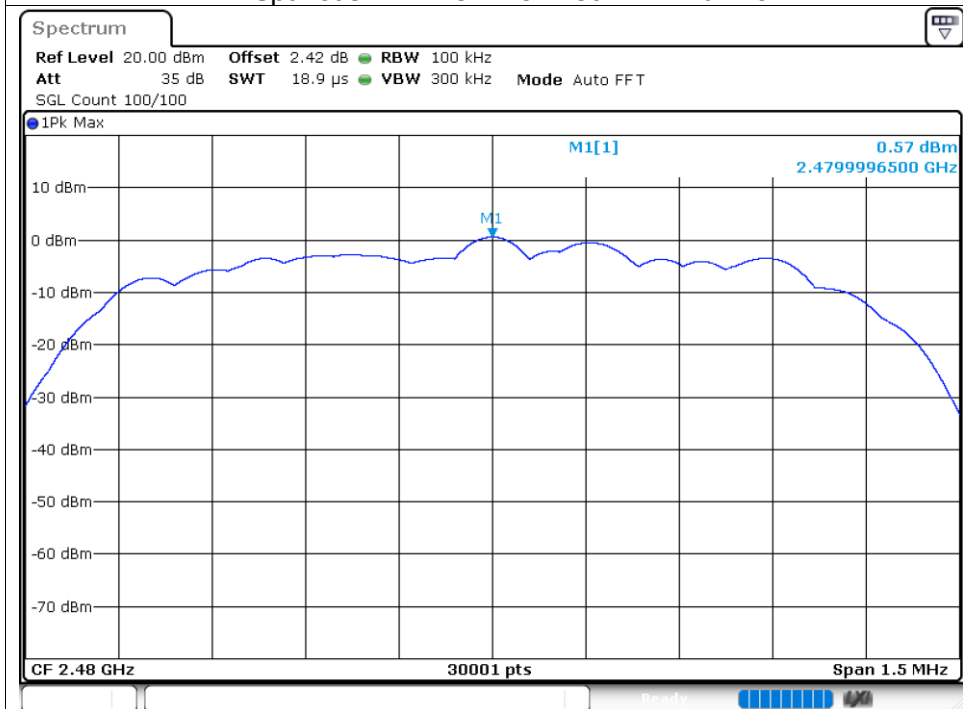
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Ref



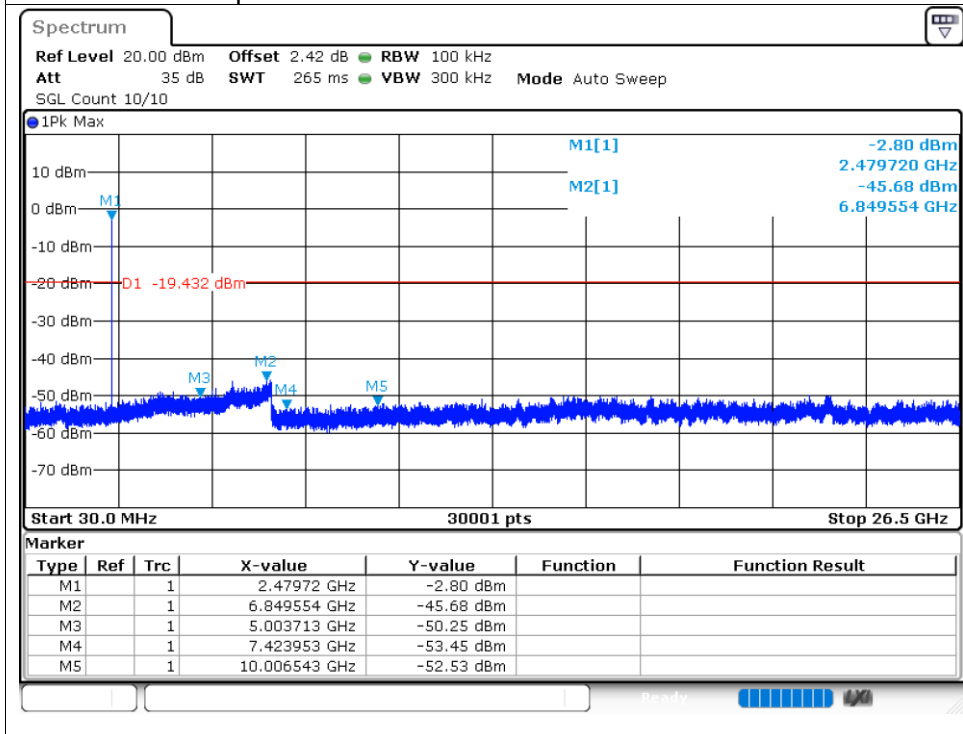
Tx. Spurious NVNT 3-DH5 2441MHz Ant1 Emission



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Ref



Tx. Spurious NVNT 3-DH5 2480MHz Ant1 Emission



END OF REPORT