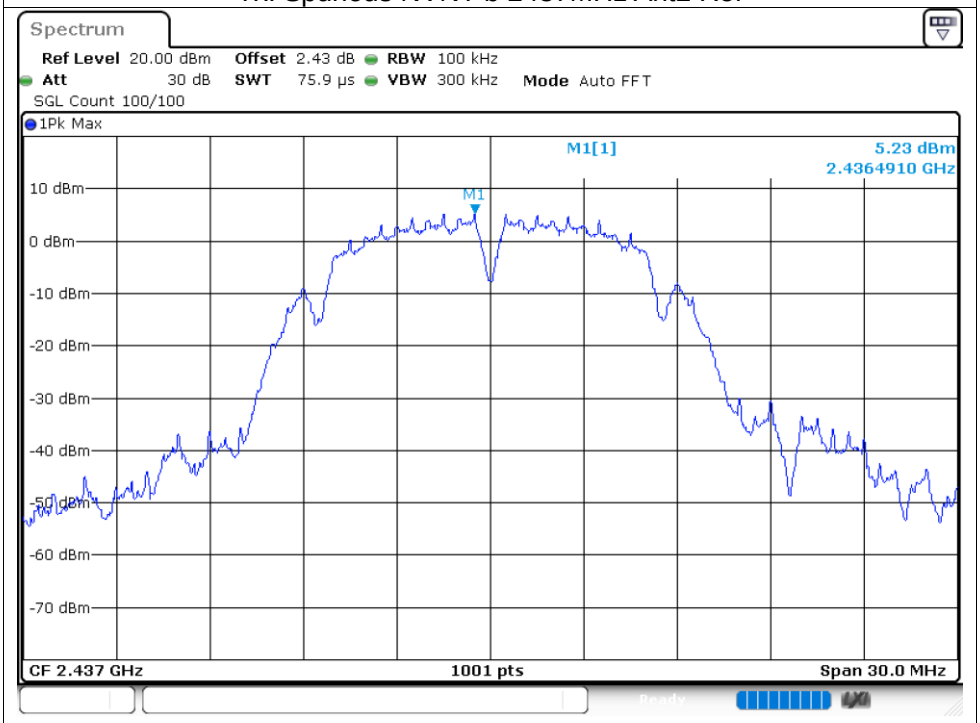
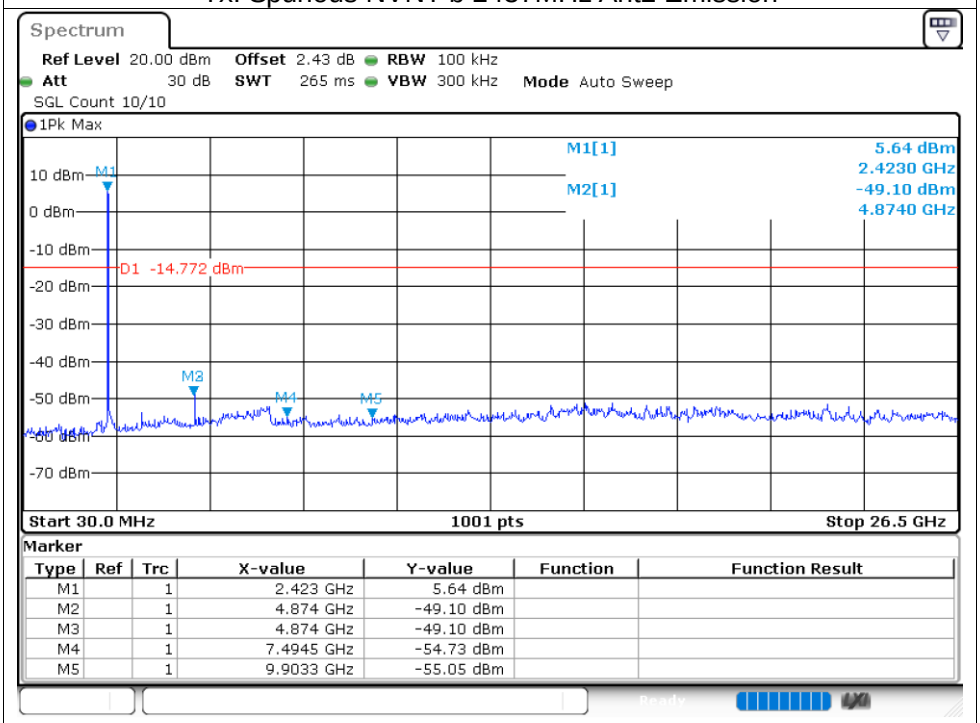
Tx. Spurious NVNT b 2437MHz Ant2 Ref



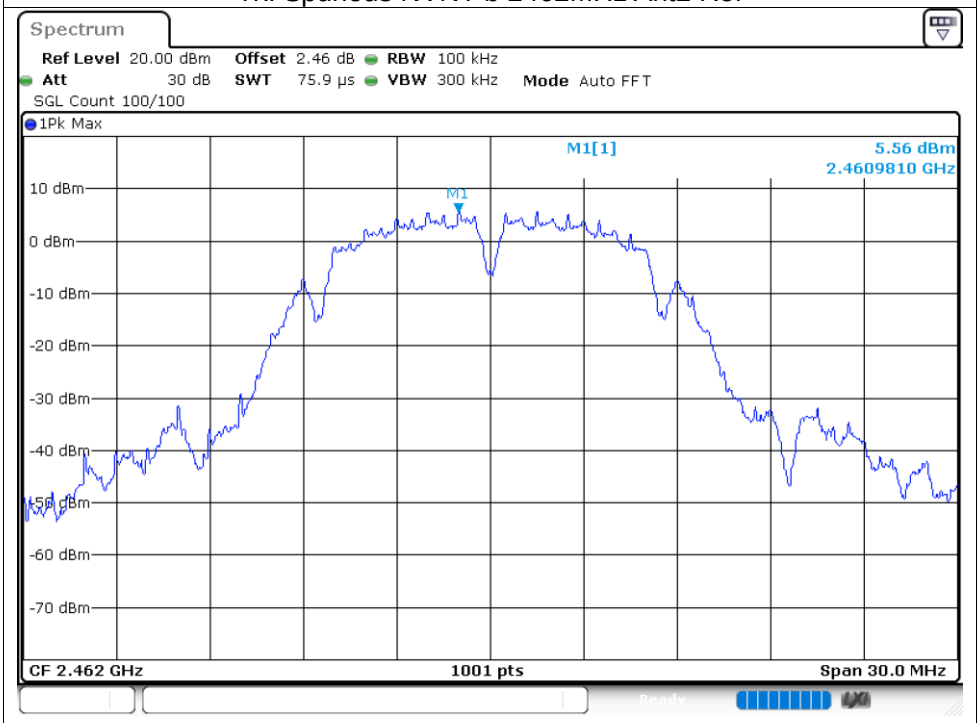
Tx. Spurious NVNT b 2437MHz Ant2 Emission



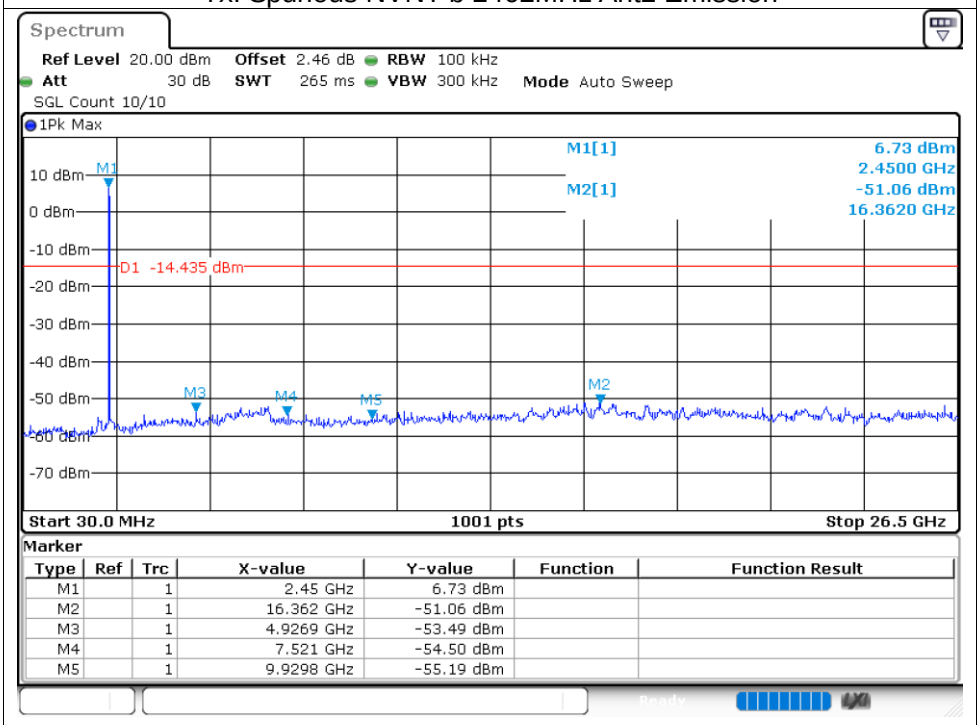
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	5.64 dBm		
M2		1	4.874 GHz	-49.10 dBm		
M3		1	4.874 GHz	-49.10 dBm		
M4		1	7.4945 GHz	-54.73 dBm		
M5		1	9.9033 GHz	-55.05 dBm		

Tx. Spurious NVNT b 2462MHz Ant2 Ref



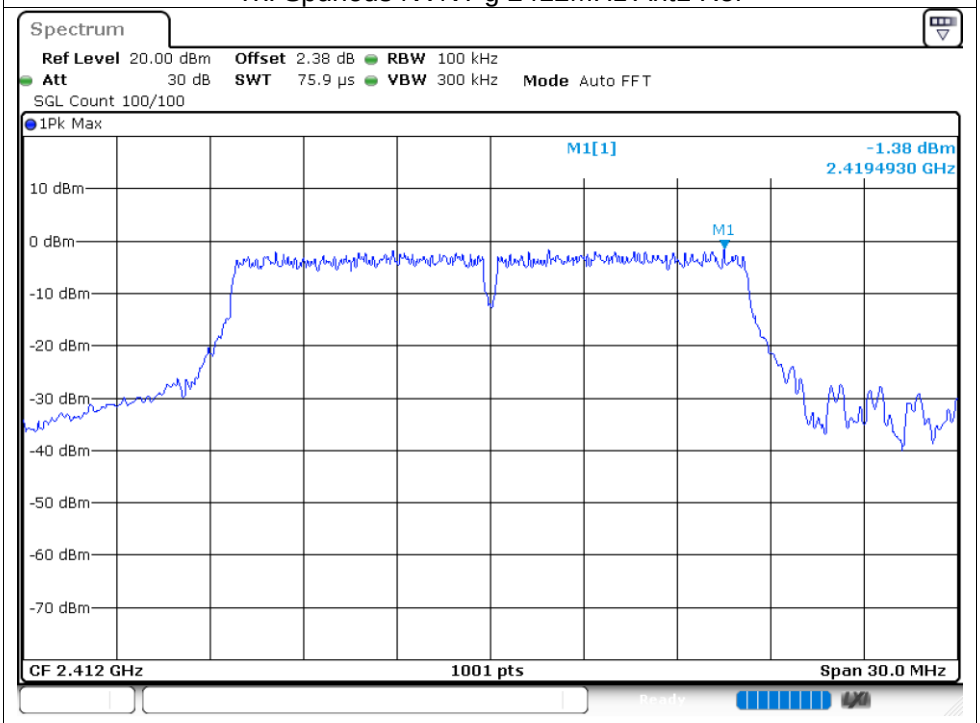
Tx. Spurious NVNT b 2462MHz Ant2 Emission



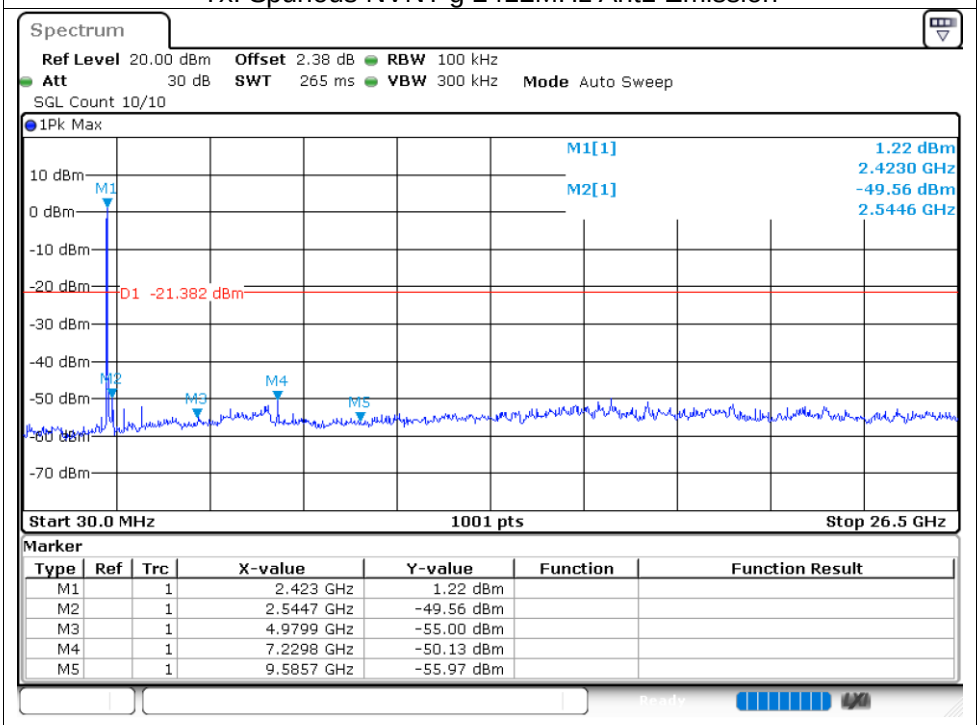
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	6.73 dBm		
M2		1	16.362 GHz	-51.06 dBm		
M3		1	4.9269 GHz	-53.49 dBm		
M4		1	7.521 GHz	-54.50 dBm		
M5		1	9.9298 GHz	-55.19 dBm		

Tx. Spurious NVNT g 2412MHz Ant1 Ref



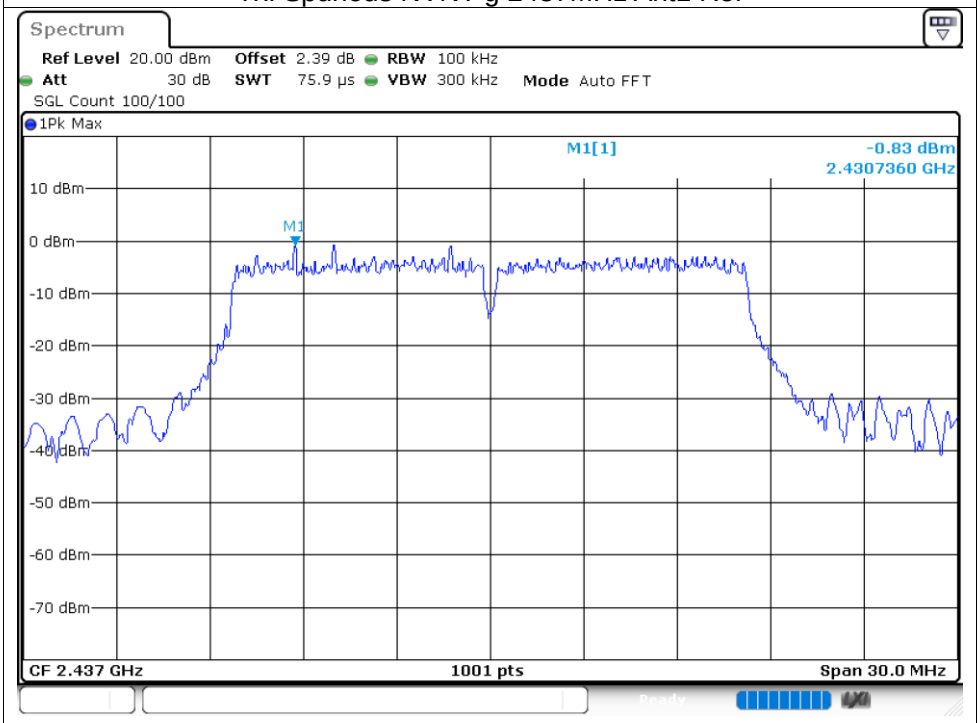
Tx. Spurious NVNT g 2412MHz Ant1 Emission



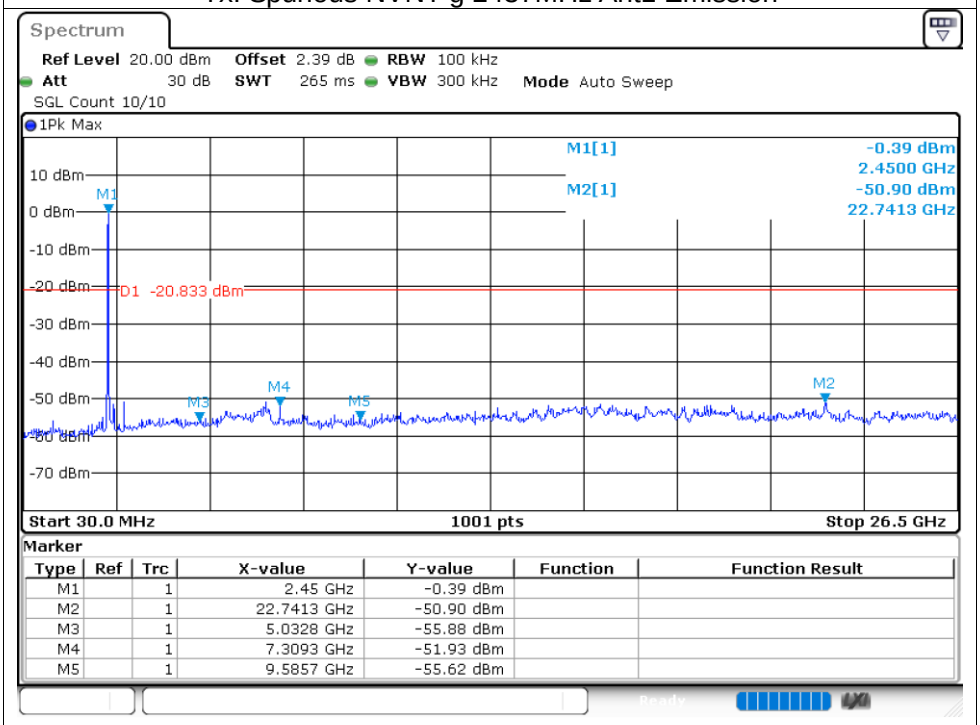
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	1.22 dBm		
M2		1	2.5447 GHz	-49.56 dBm		
M3		1	4.9799 GHz	-55.00 dBm		
M4		1	7.2298 GHz	-50.13 dBm		
M5		1	9.5857 GHz	-55.97 dBm		

Tx. Spurious NVNT g 2437MHz Ant1 Ref



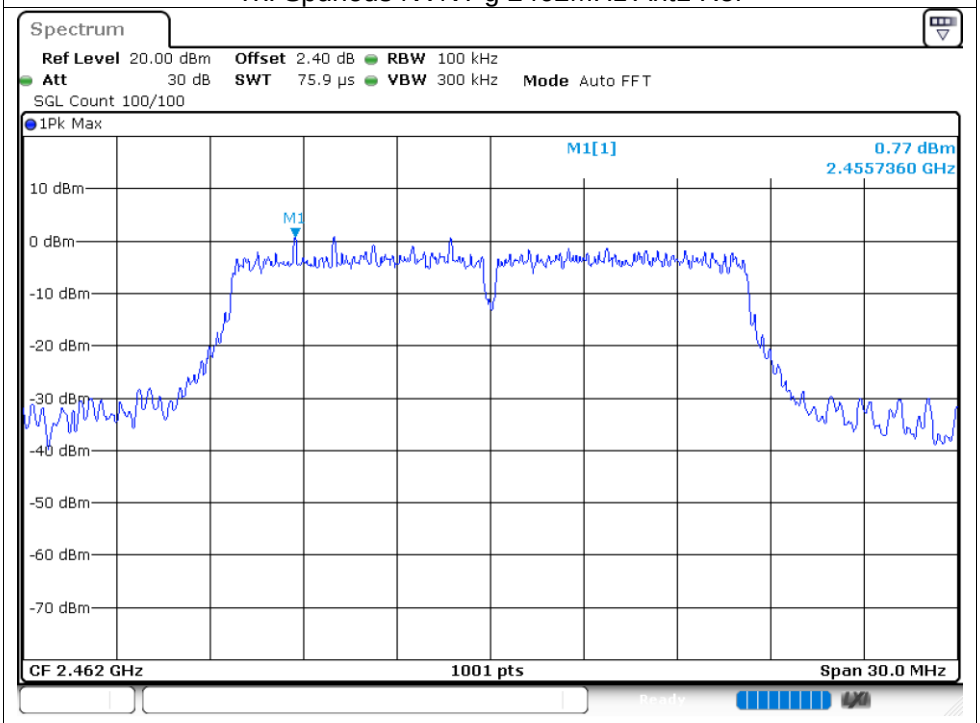
Tx. Spurious NVNT g 2437MHz Ant1 Emission



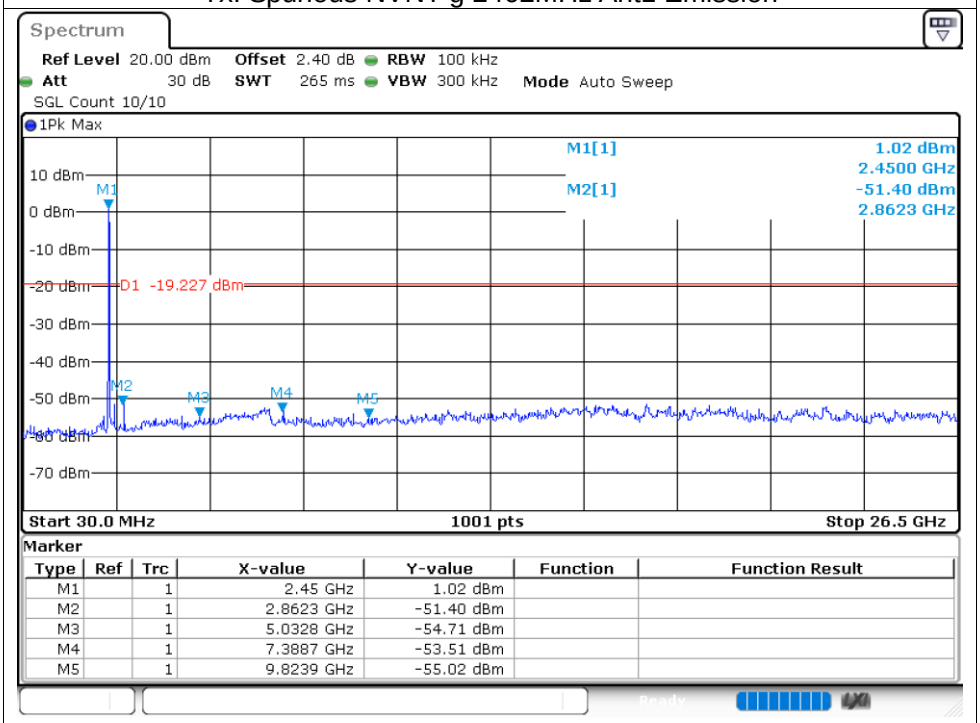
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-0.39 dBm		
M2		1	22.7413 GHz	-50.90 dBm		
M3		1	5.0328 GHz	-55.88 dBm		
M4		1	7.3093 GHz	-51.93 dBm		
M5		1	9.5857 GHz	-55.62 dBm		

Tx. Spurious NVNT g 2462MHz Ant1 Ref



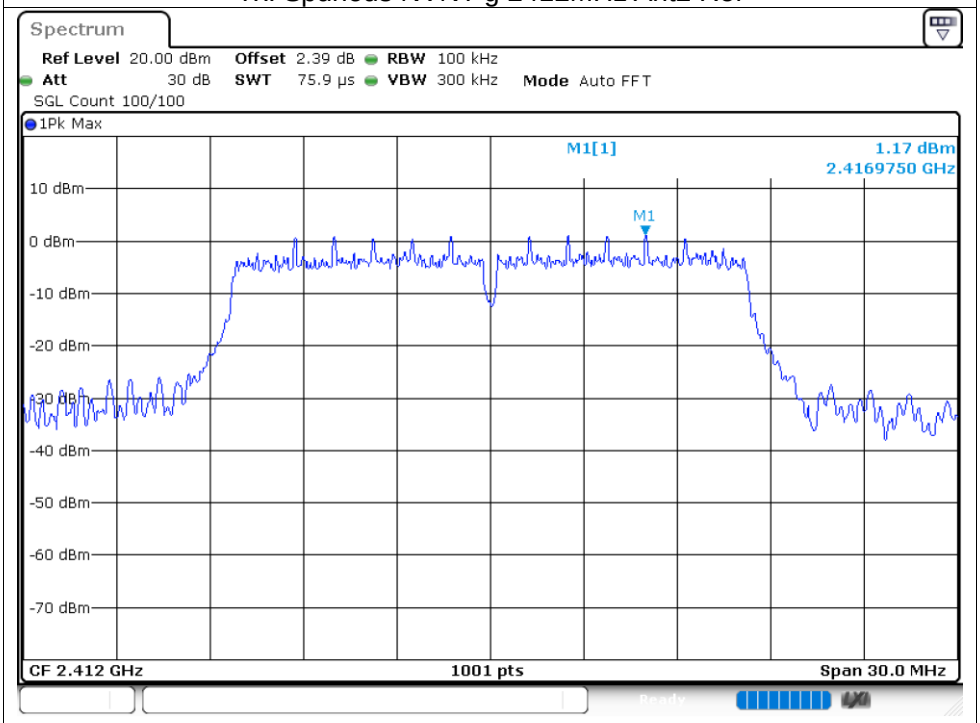
Tx. Spurious NVNT g 2462MHz Ant1 Emission



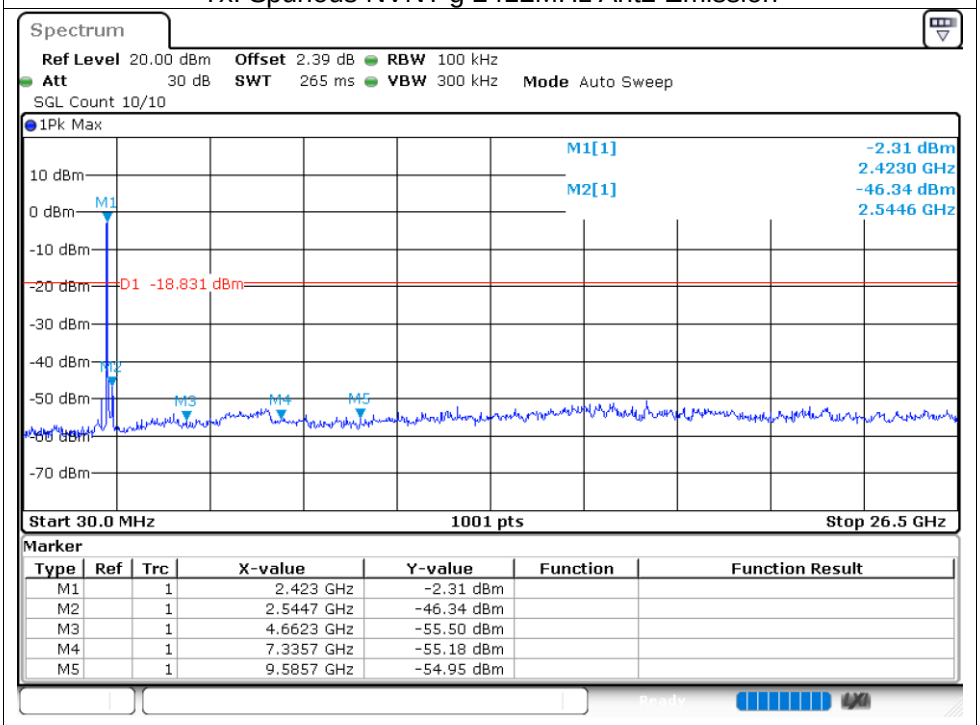
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	1.02 dBm		
M2		1	2.8623 GHz	-51.40 dBm		
M3		1	5.0328 GHz	-54.71 dBm		
M4		1	7.3887 GHz	-53.51 dBm		
M5		1	9.8239 GHz	-55.02 dBm		

Tx. Spurious NVNT g 2412MHz Ant2 Ref



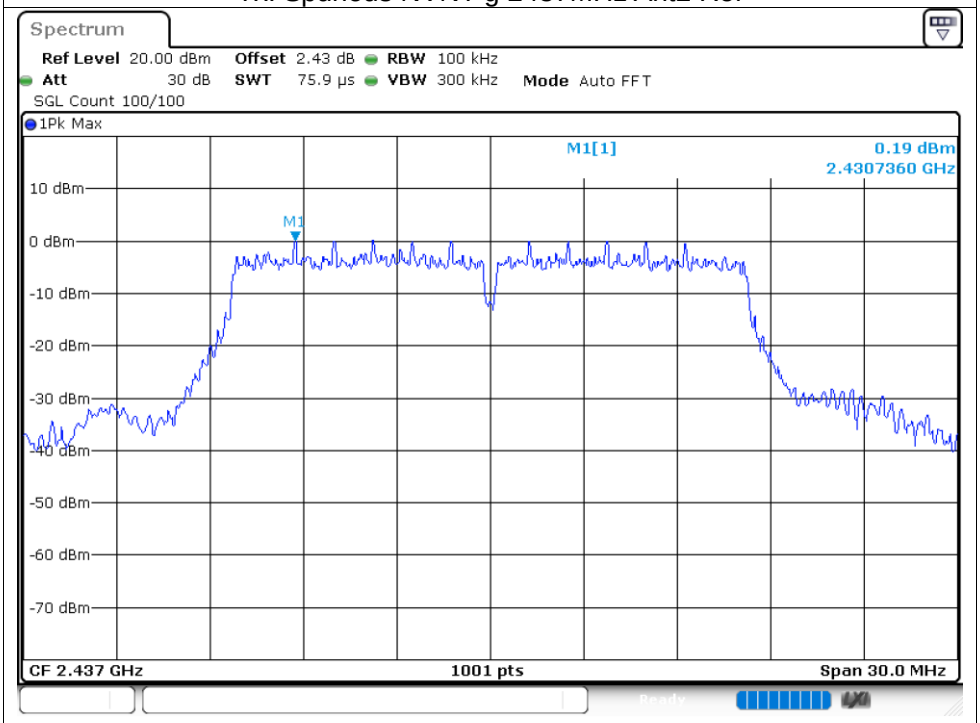
Tx. Spurious NVNT g 2412MHz Ant2 Emission



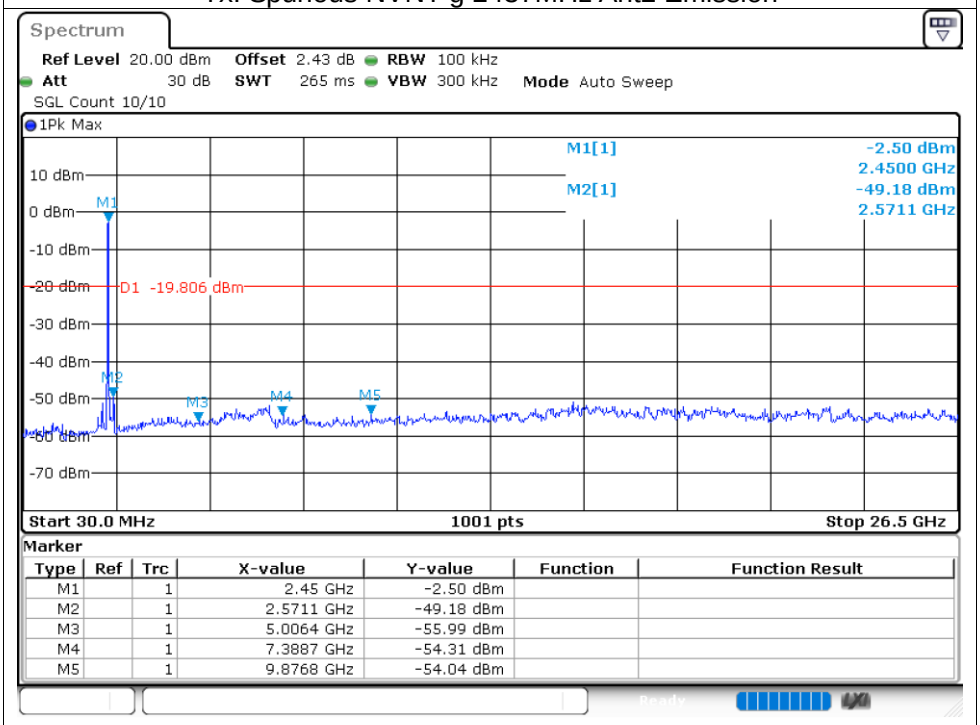
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-2.31 dBm		
M2		1	2.5447 GHz	-46.34 dBm		
M3		1	4.6623 GHz	-55.50 dBm		
M4		1	7.3357 GHz	-55.18 dBm		
M5		1	9.5857 GHz	-54.95 dBm		

Tx. Spurious NVNT g 2437MHz Ant2 Ref



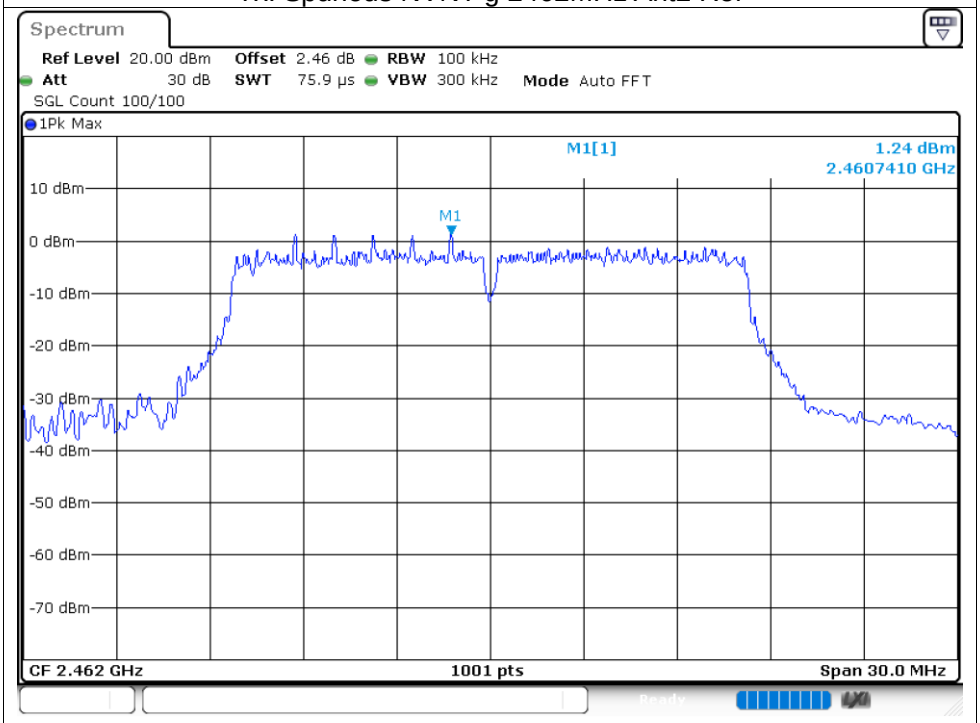
Tx. Spurious NVNT g 2437MHz Ant2 Emission



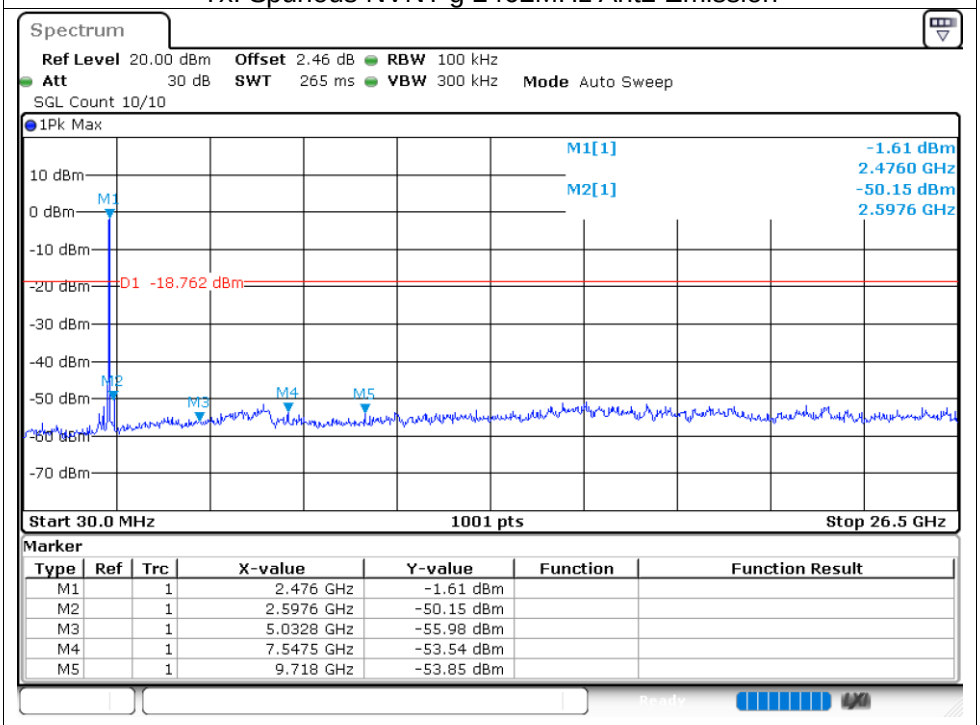
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-2.50 dBm		
M2		1	2.5711 GHz	-49.18 dBm		
M3		1	5.0064 GHz	-55.99 dBm		
M4		1	7.3887 GHz	-54.31 dBm		
M5		1	9.8768 GHz	-54.04 dBm		

Tx. Spurious NVNT g 2462MHz Ant2 Ref



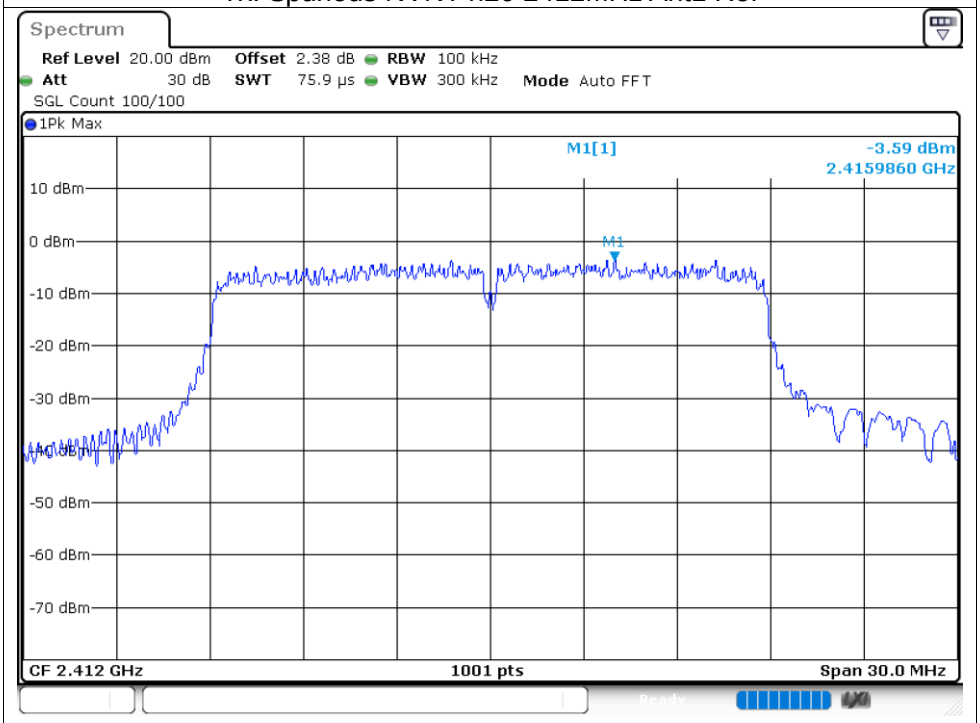
Tx. Spurious NVNT g 2462MHz Ant2 Emission



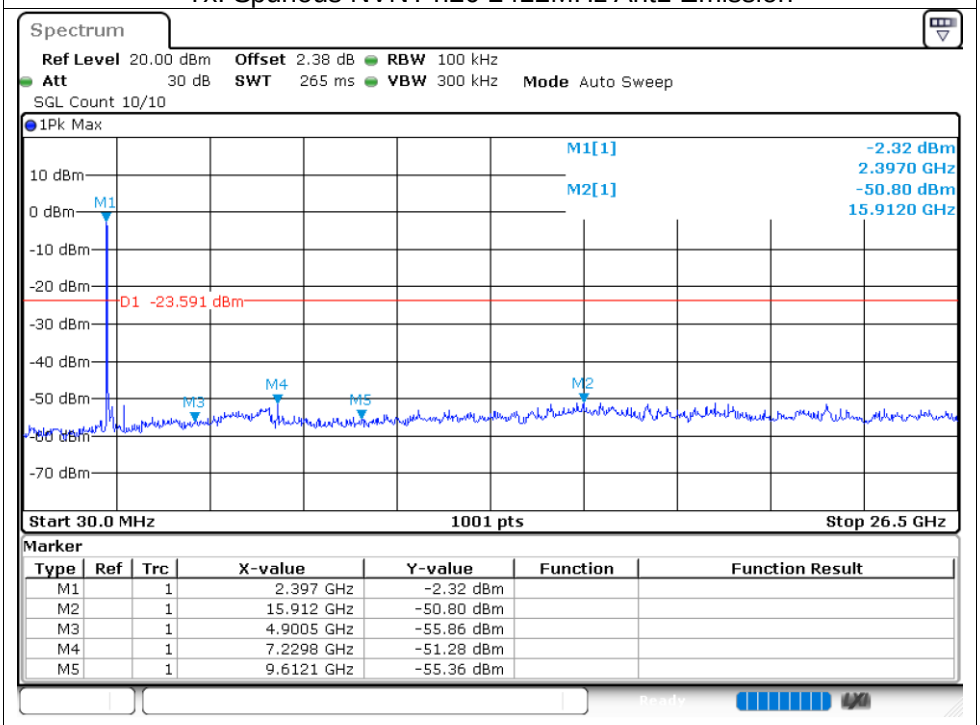
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	-1.61 dBm		
M2		1	2.5976 GHz	-50.15 dBm		
M3		1	5.0328 GHz	-55.98 dBm		
M4		1	7.5475 GHz	-53.54 dBm		
M5		1	9.718 GHz	-53.85 dBm		

Tx. Spurious NVNT n20 2412MHz Ant1 Ref



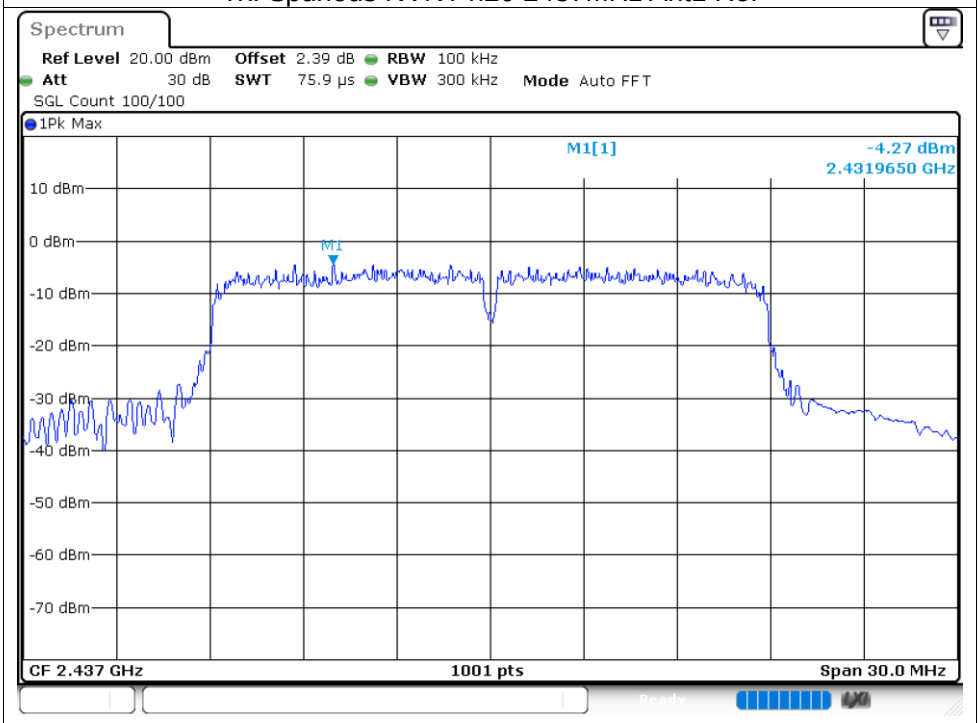
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



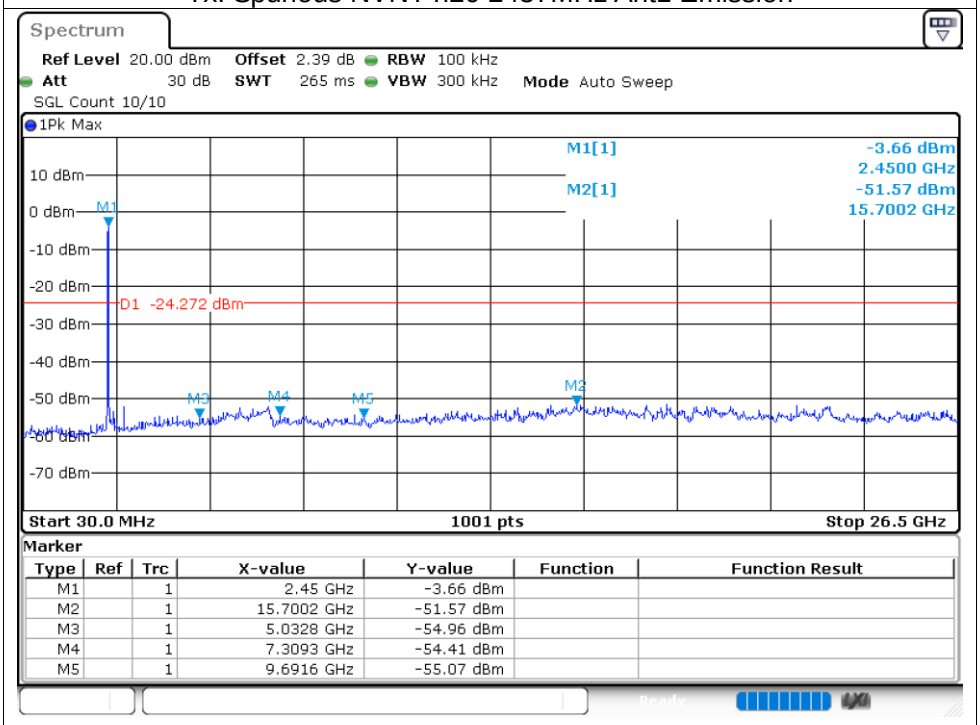
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-2.32 dBm		
M2		1	15.912 GHz	-50.80 dBm		
M3		1	4.9005 GHz	-55.86 dBm		
M4		1	7.2298 GHz	-51.28 dBm		
M5		1	9.6121 GHz	-55.36 dBm		

Tx. Spurious NVNT n20 2437MHz Ant1 Ref



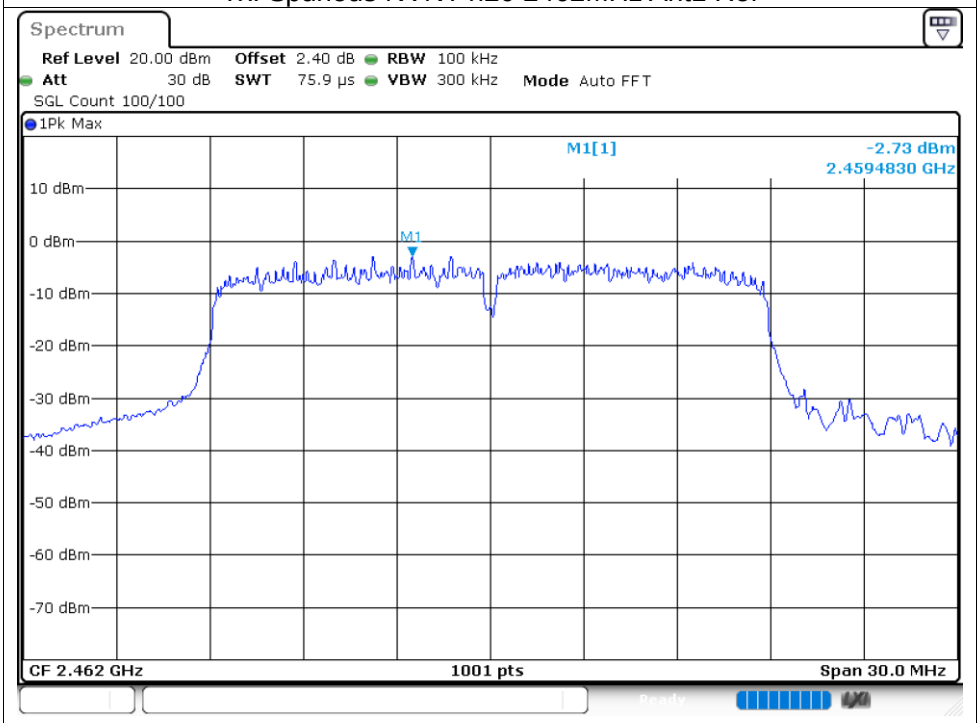
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



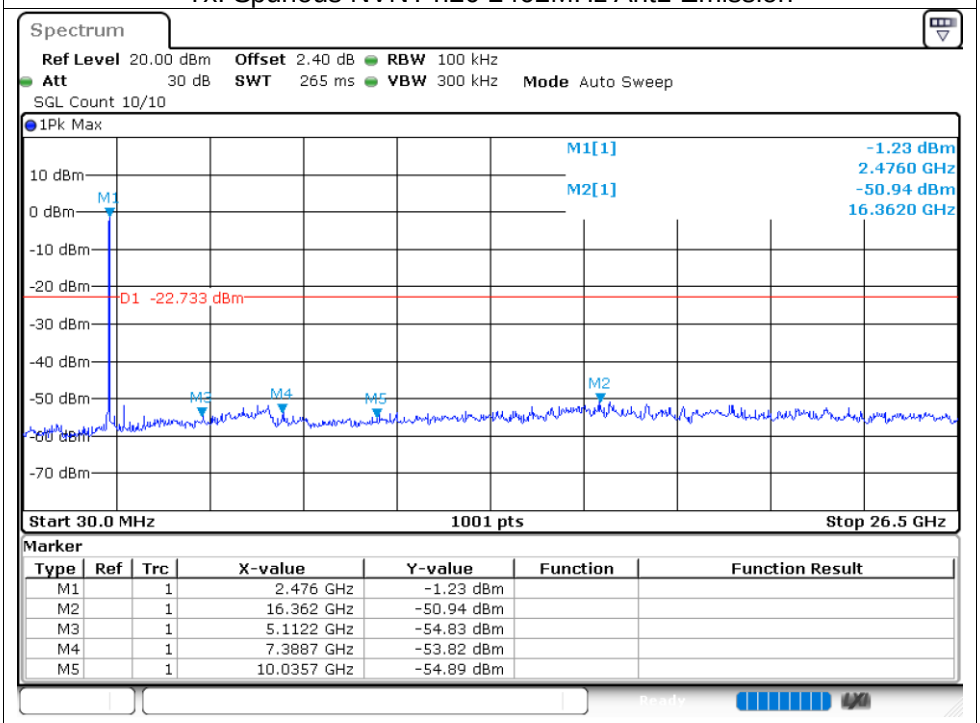
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-3.66 dBm		
M2		1	15.7002 GHz	-51.57 dBm		
M3		1	5.0328 GHz	-54.96 dBm		
M4		1	7.3093 GHz	-54.41 dBm		
M5		1	9.6916 GHz	-55.07 dBm		

Tx. Spurious NVNT n20 2462MHz Ant1 Ref



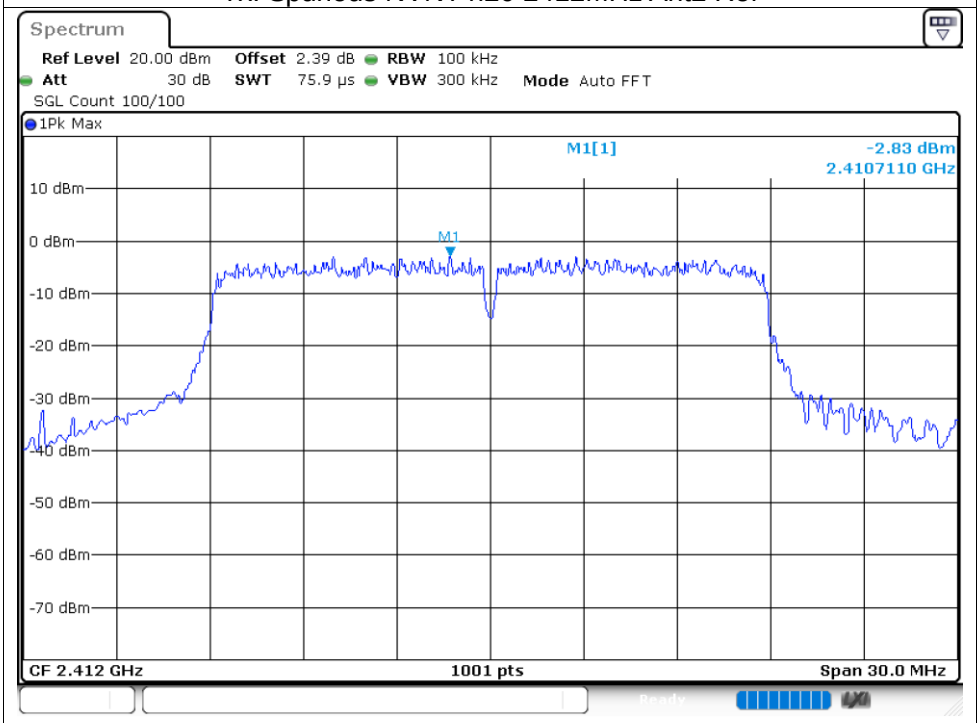
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



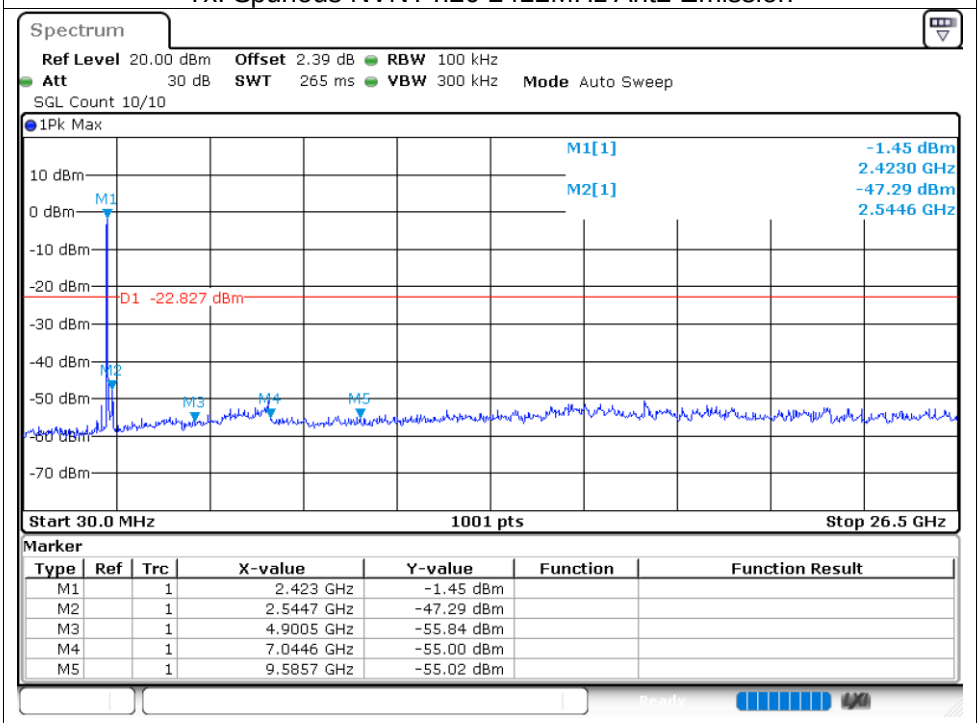
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	-1.23 dBm		
M2		1	16.362 GHz	-50.94 dBm		
M3		1	5.1122 GHz	-54.83 dBm		
M4		1	7.3887 GHz	-53.82 dBm		
M5		1	10.0357 GHz	-54.89 dBm		

Tx. Spurious NVNT n20 2412MHz Ant2 Ref

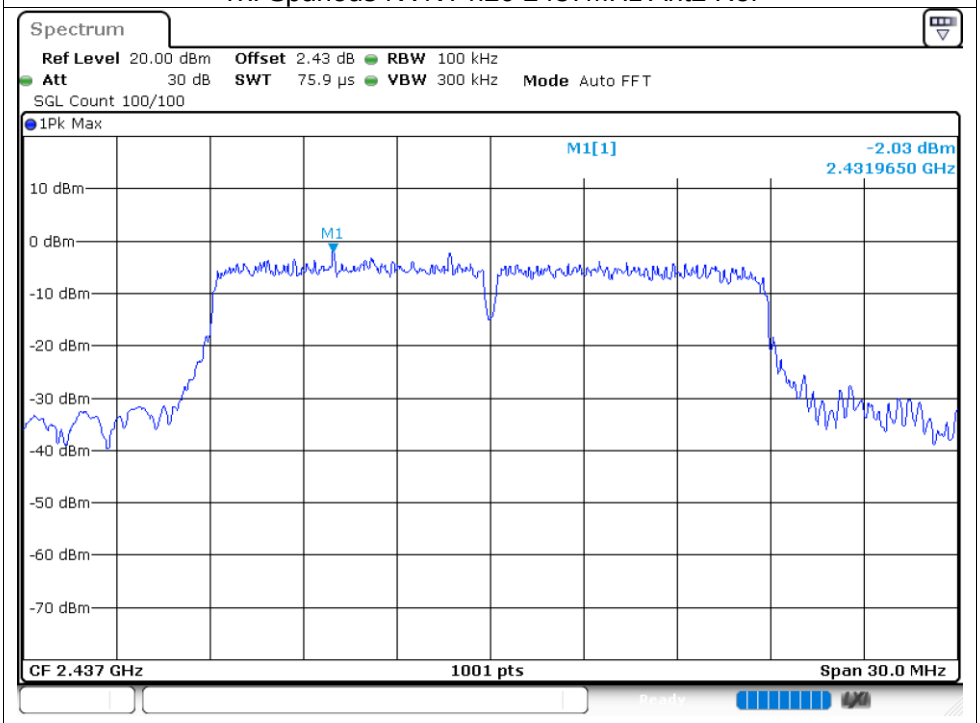


Tx. Spurious NVNT n20 2412MHz Ant2 Emission

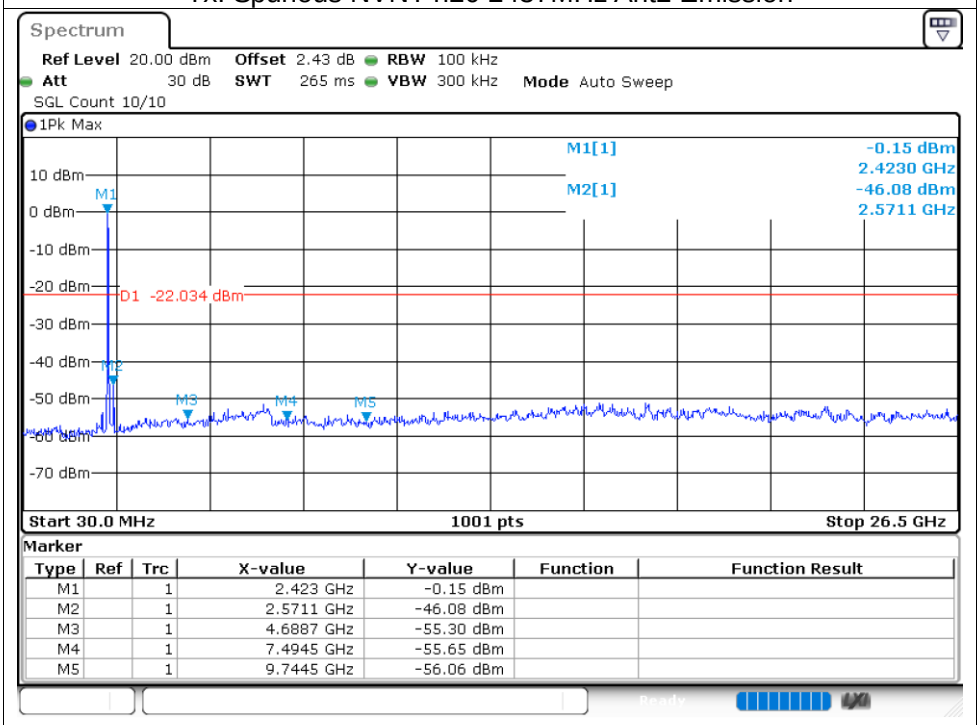


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-1.45 dBm		
M2		1	2.5447 GHz	-47.29 dBm		
M3		1	4.9005 GHz	-55.84 dBm		
M4		1	7.0446 GHz	-55.00 dBm		
M5		1	9.5857 GHz	-55.02 dBm		

Tx. Spurious NVNT n20 2437MHz Ant2 Ref



Tx. Spurious NVNT n20 2437MHz Ant2 Emission



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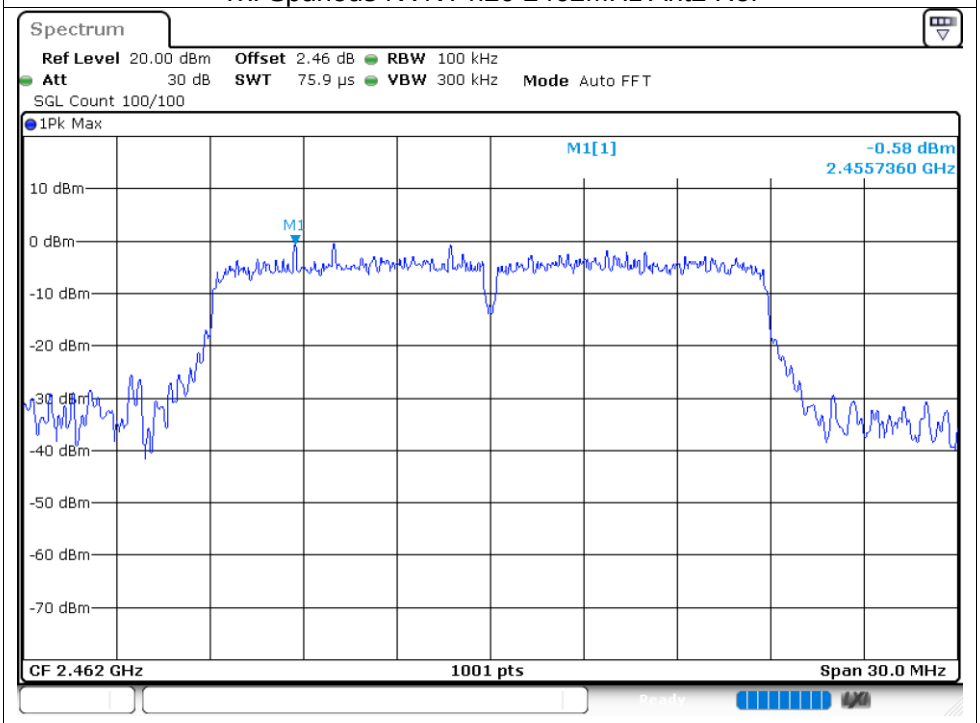
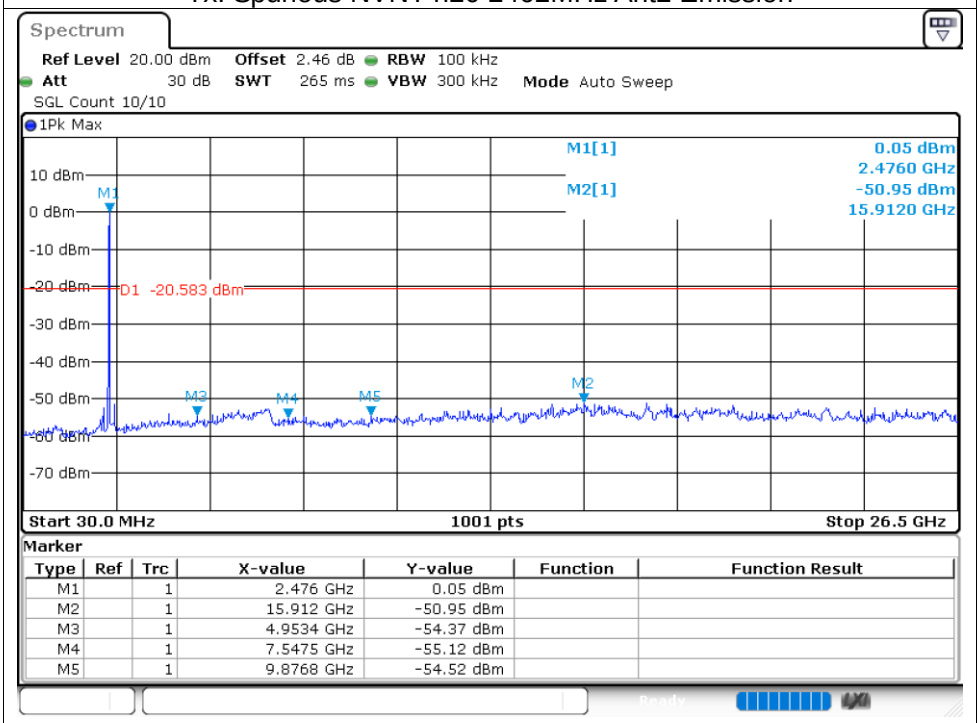
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-0.15 dBm		
M2		1	2.5711 GHz	-46.08 dBm		
M3		1	4.6887 GHz	-55.30 dBm		
M4		1	7.4945 GHz	-55.65 dBm		
M5		1	9.7445 GHz	-56.06 dBm		

Tx. Spurious NVNT n20 2462MHz Ant2 Ref



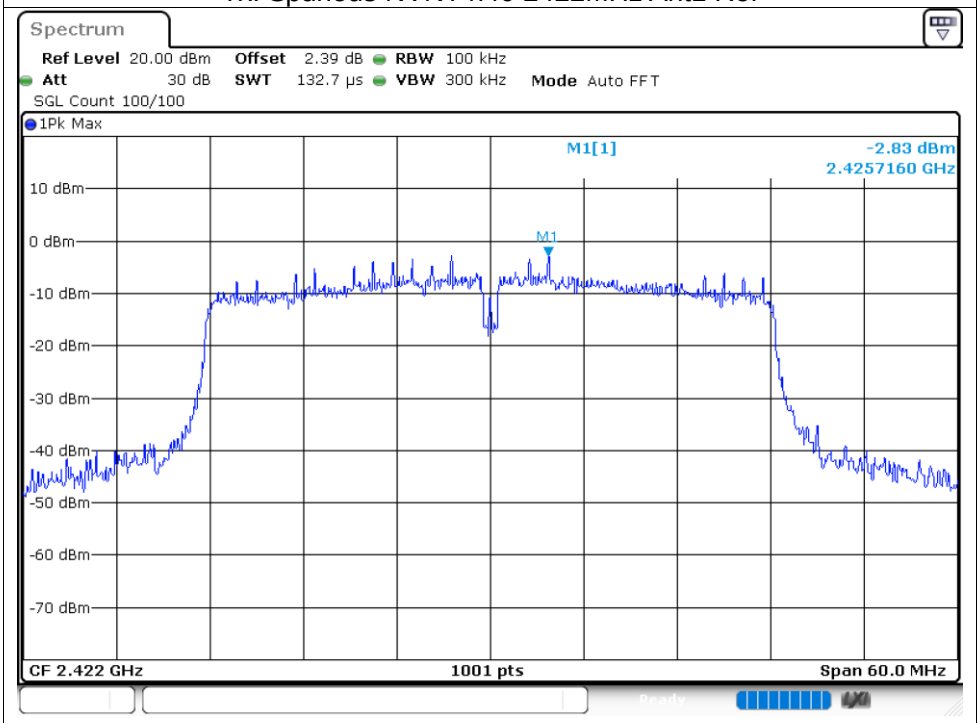
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



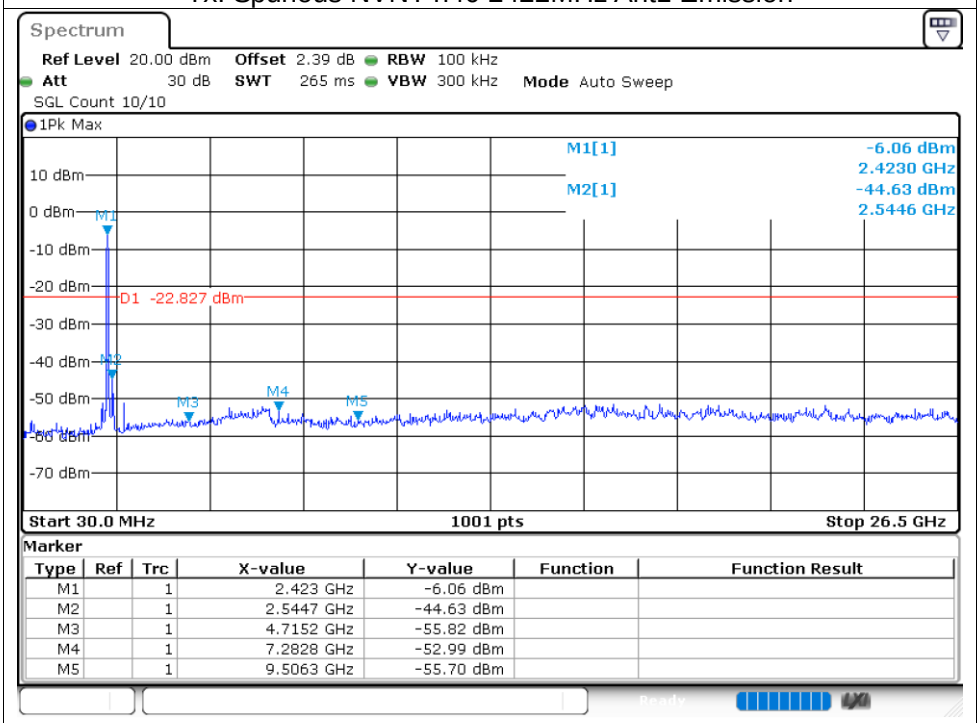
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	0.05 dBm		
M2		1	15.912 GHz	-50.95 dBm		
M3		1	4.9534 GHz	-54.37 dBm		
M4		1	7.5475 GHz	-55.12 dBm		
M5		1	9.8768 GHz	-54.52 dBm		

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



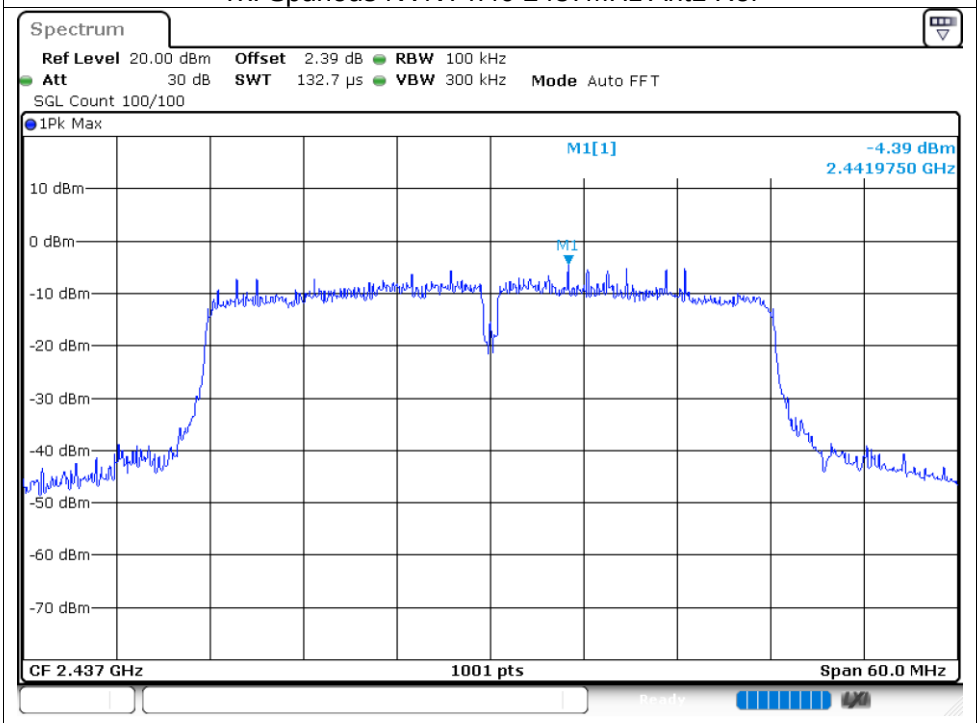
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



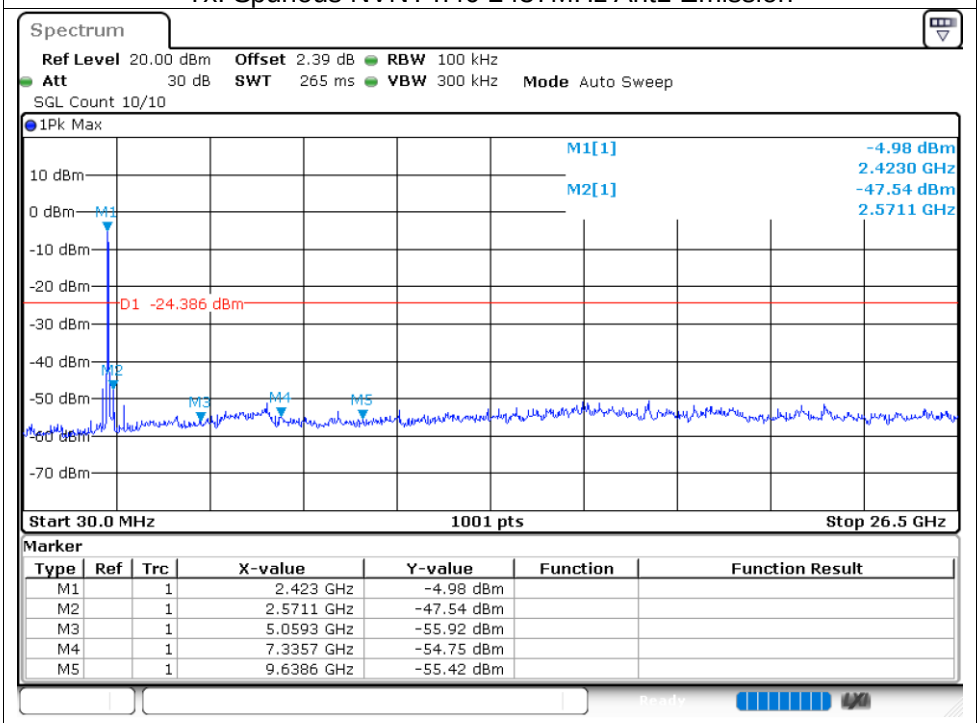
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-6.06 dBm		
M2		1	2.5447 GHz	-44.63 dBm		
M3		1	4.7152 GHz	-55.82 dBm		
M4		1	7.2828 GHz	-52.99 dBm		
M5		1	9.5063 GHz	-55.70 dBm		

Tx. Spurious NVNT n40 2437MHz Ant1 Ref



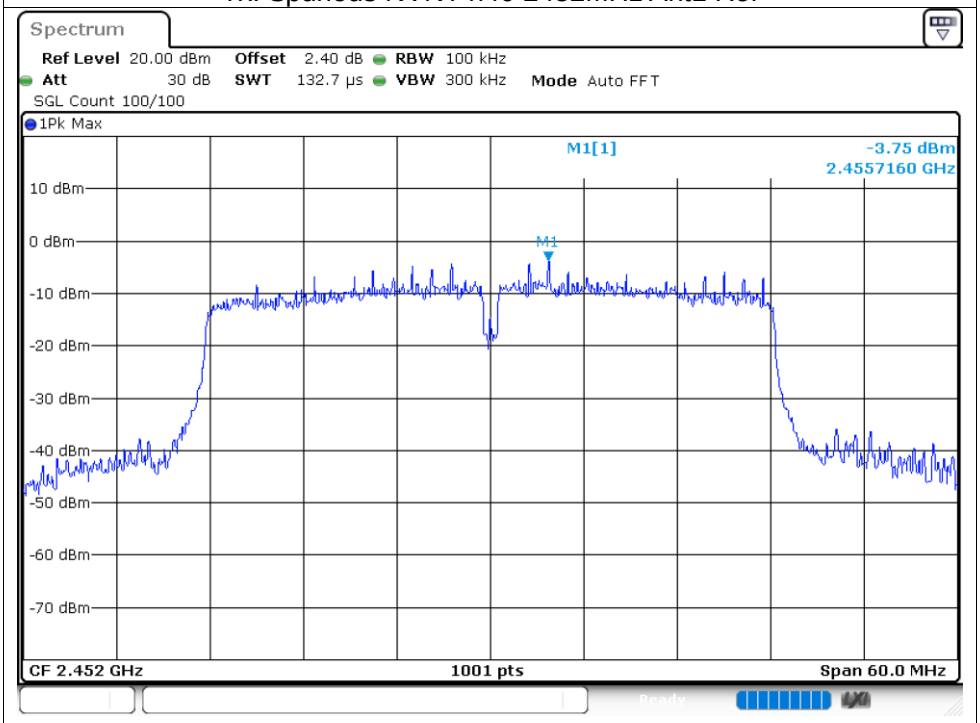
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



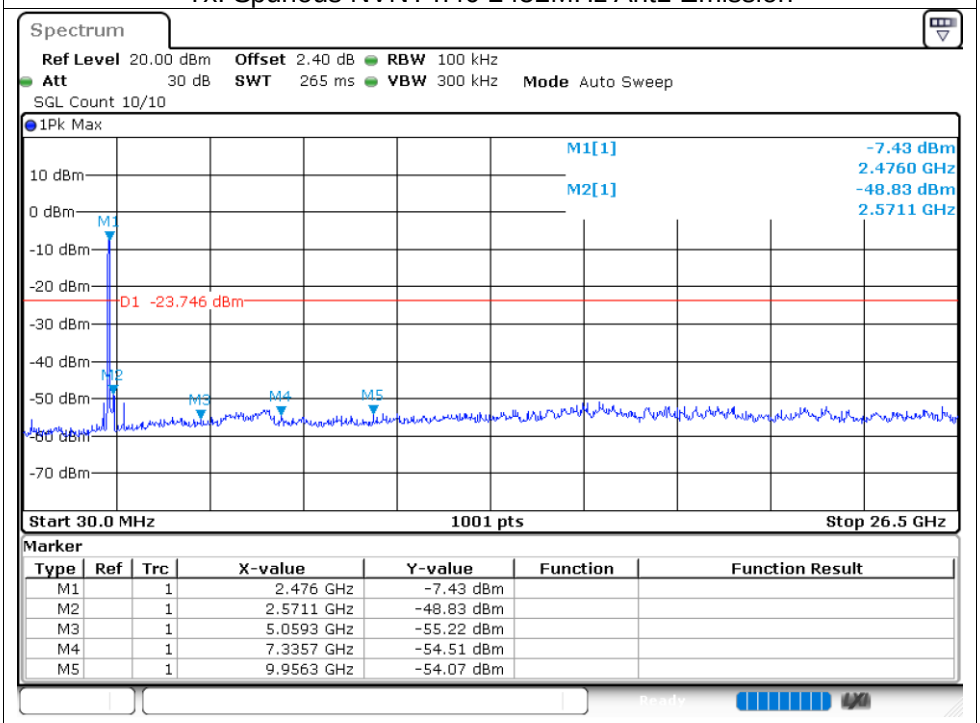
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-4.98 dBm		
M2		1	2.5711 GHz	-47.54 dBm		
M3		1	5.0593 GHz	-55.92 dBm		
M4		1	7.3357 GHz	-54.75 dBm		
M5		1	9.6386 GHz	-55.42 dBm		

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



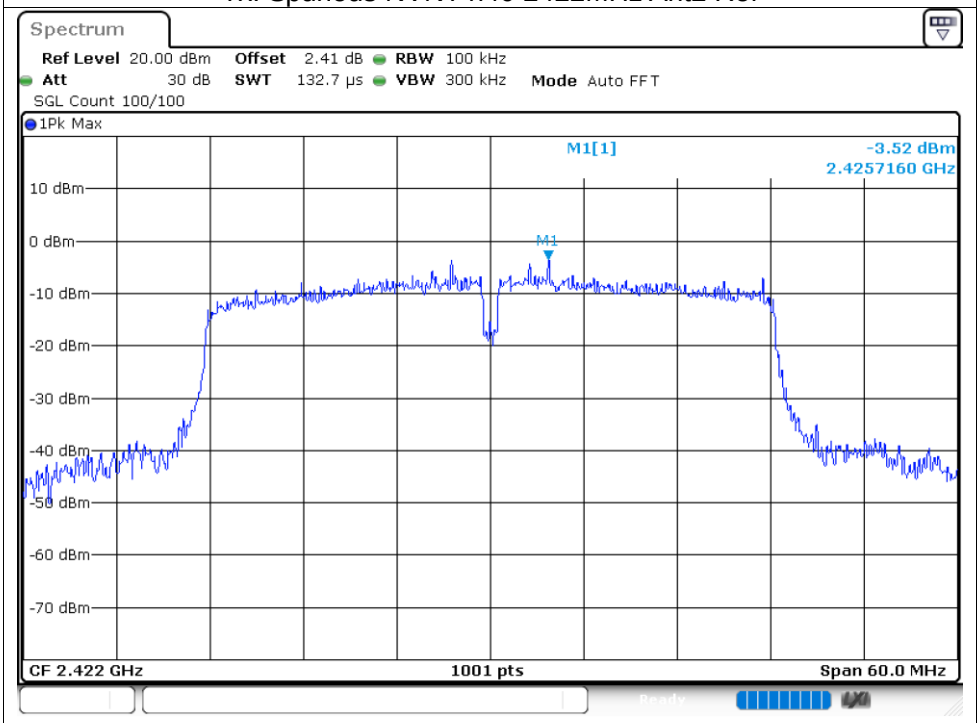
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



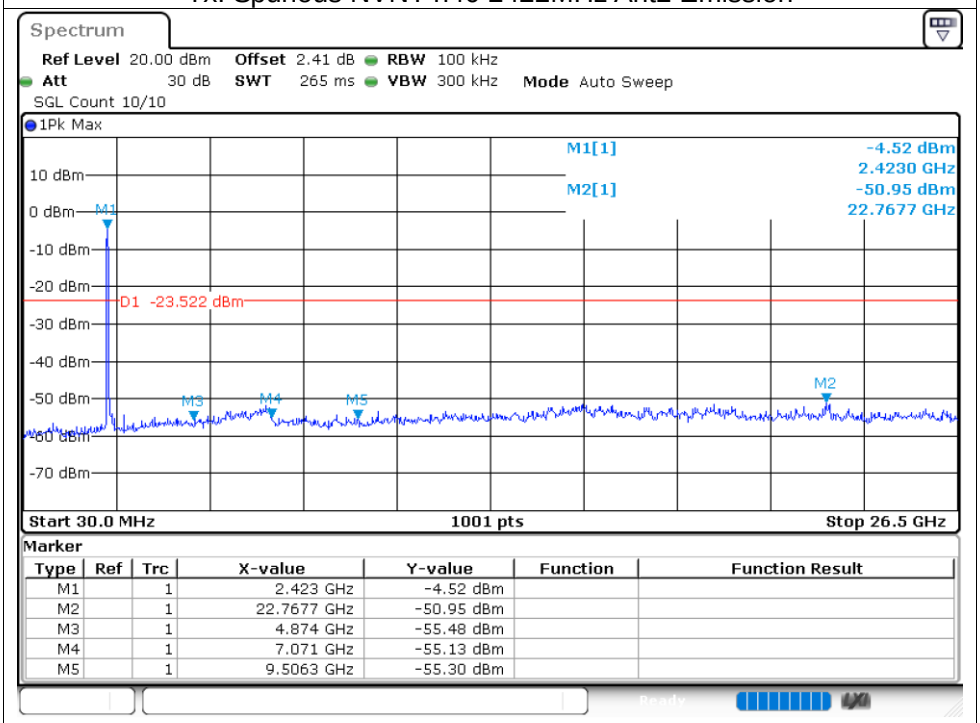
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	-7.43 dBm		
M2		1	2.5711 GHz	-48.83 dBm		
M3		1	5.0593 GHz	-55.22 dBm		
M4		1	7.3357 GHz	-54.51 dBm		
M5		1	9.9563 GHz	-54.07 dBm		

Tx. Spurious NVNT n40 2422MHz Ant2 Ref



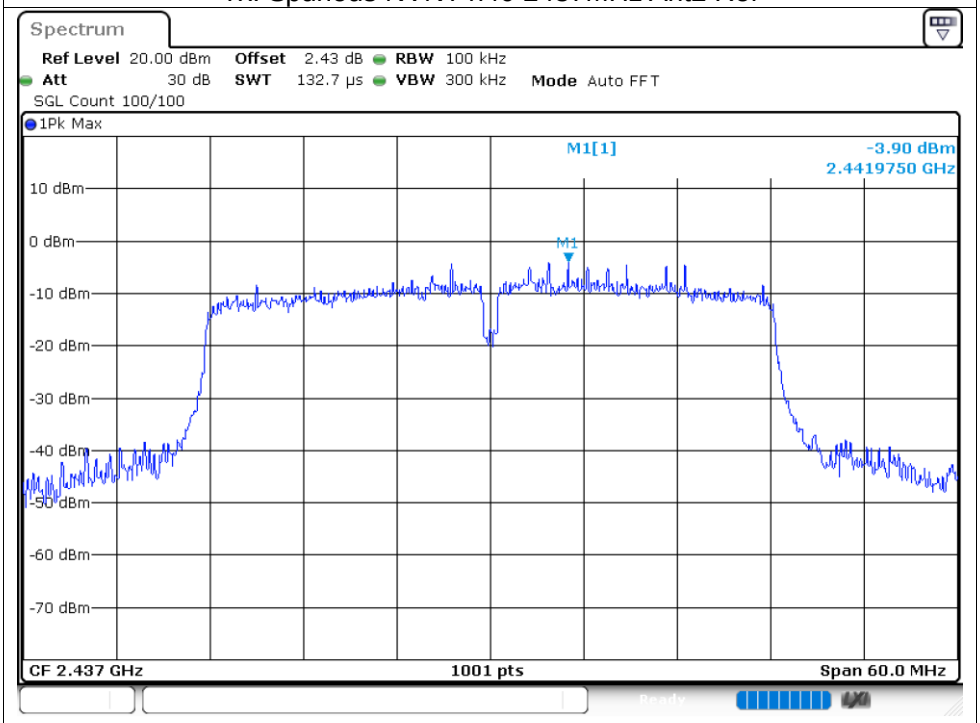
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



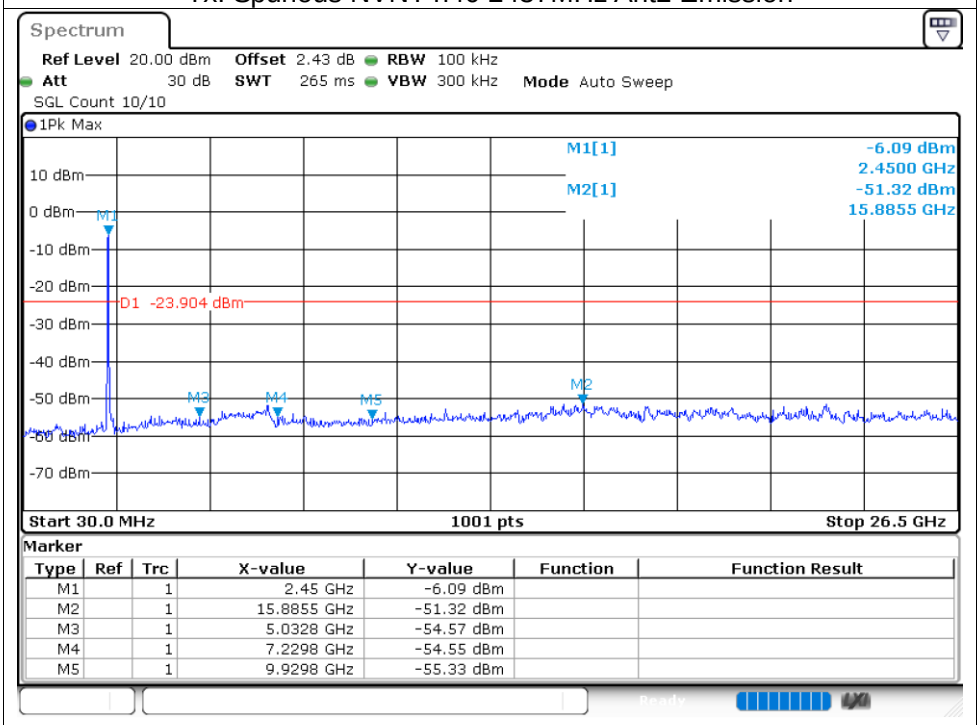
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-4.52 dBm		
M2		1	22.7677 GHz	-50.95 dBm		
M3		1	4.874 GHz	-55.48 dBm		
M4		1	7.071 GHz	-55.13 dBm		
M5		1	9.5063 GHz	-55.30 dBm		

Tx. Spurious NVNT n40 2437MHz Ant2 Ref



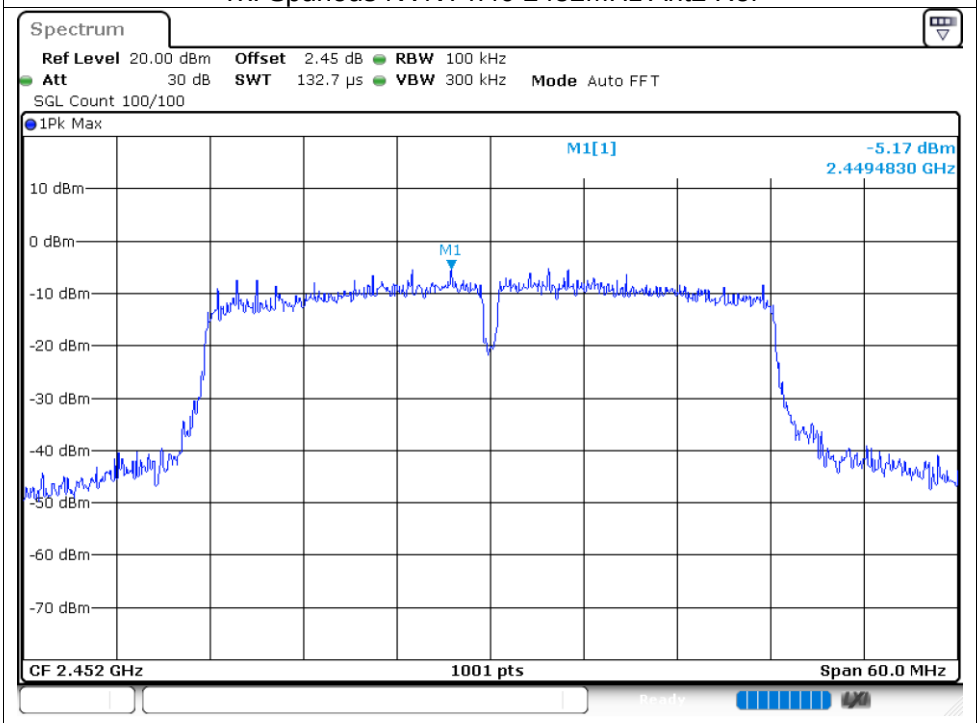
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



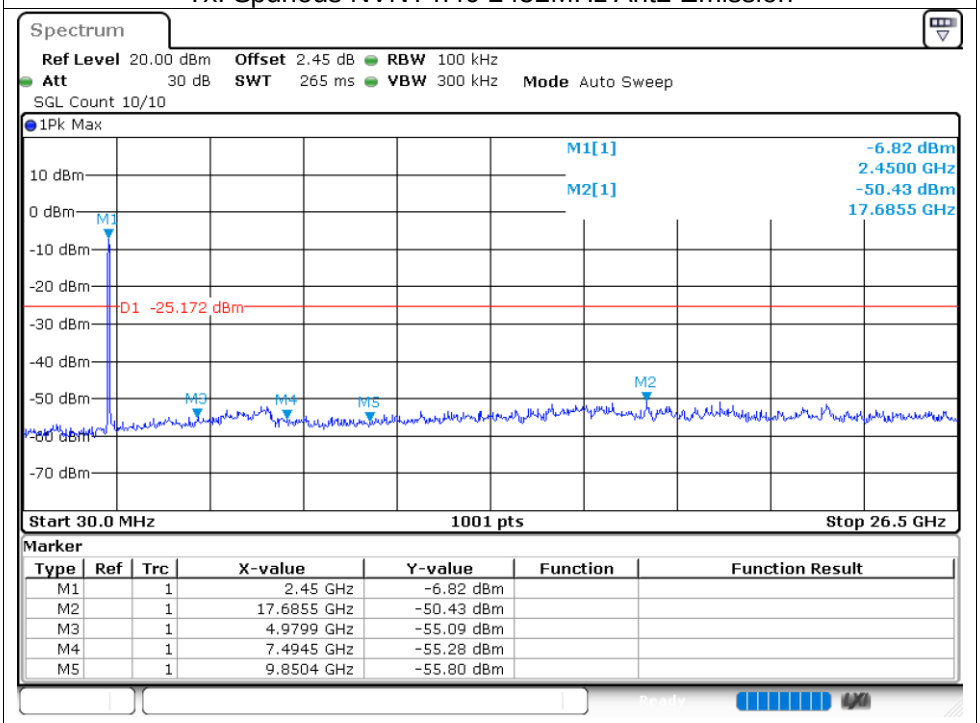
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-6.09 dBm		
M2		1	15.8855 GHz	-51.32 dBm		
M3		1	5.0328 GHz	-54.57 dBm		
M4		1	7.2298 GHz	-54.55 dBm		
M5		1	9.9298 GHz	-55.33 dBm		

Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-6.82 dBm		
M2		1	17.6855 GHz	-50.43 dBm		
M3		1	4.9799 GHz	-55.09 dBm		
M4		1	7.4945 GHz	-55.28 dBm		
M5		1	9.8504 GHz	-55.80 dBm		

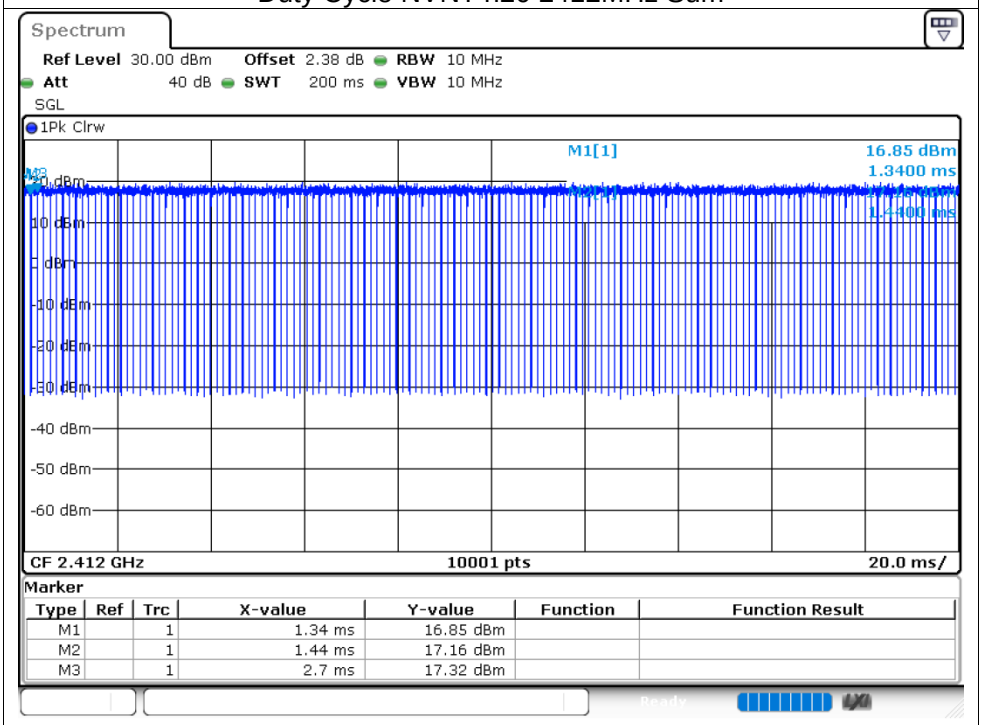
8.2 **2.4G WIFI MIMO**

8.2.1 Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	n20	2412	Sum	94.43	0.25	0.79
NVNT	n20	2437	Sum	94.36	0.25	0.78
NVNT	n20	2462	Sum	97.67	0.1	0.79
NVNT	n40	2422	Sum	95.44	0.2	1.56
NVNT	n40	2437	Sum	95.37	0.21	1.59
NVNT	n40	2452	Sum	95.35	0.21	1.59

Test Graphs

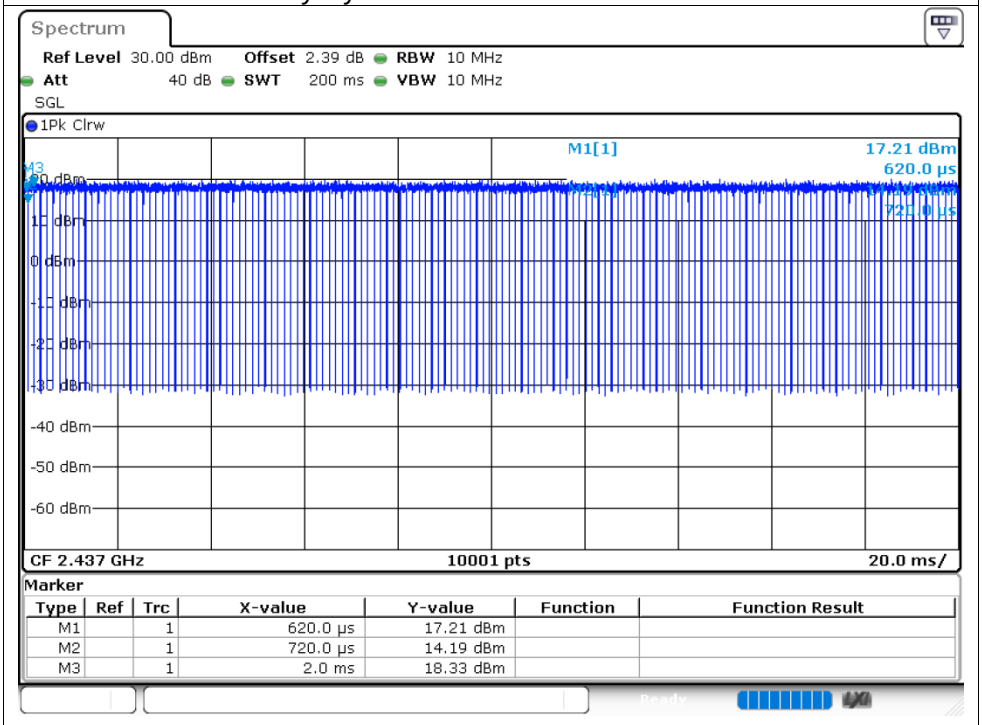
Duty Cycle NVNT n20 2412MHz Sum



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	1.34 ms	16.85 dBm		
M2		1	1.44 ms	17.16 dBm		
M3		1	2.7 ms	17.32 dBm		

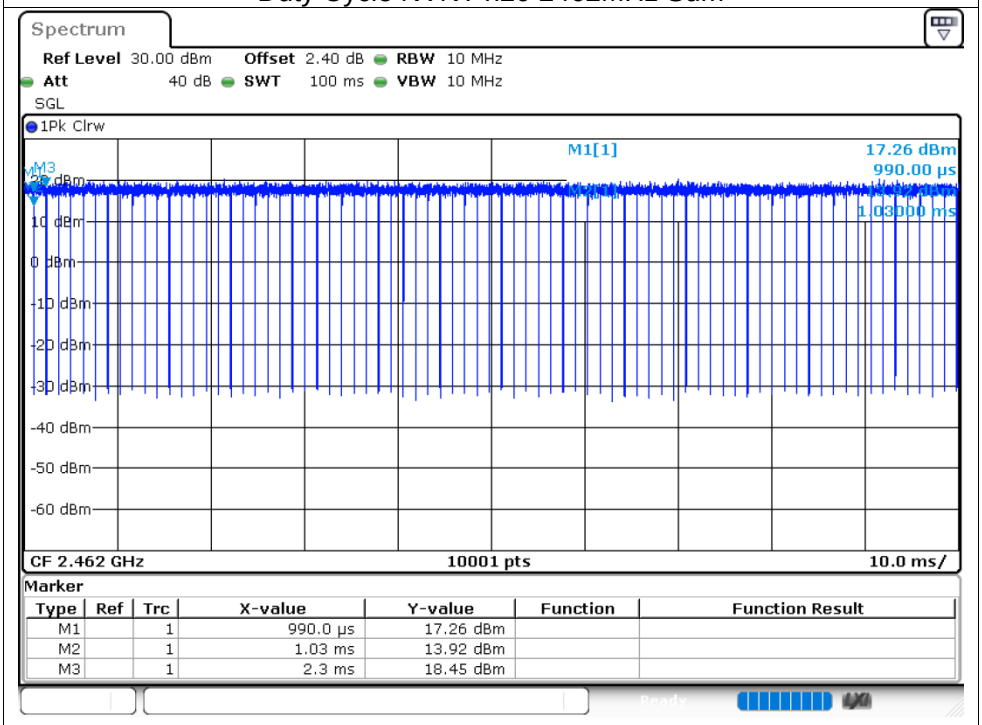
Duty Cycle NVNT n20 2437MHz Sum



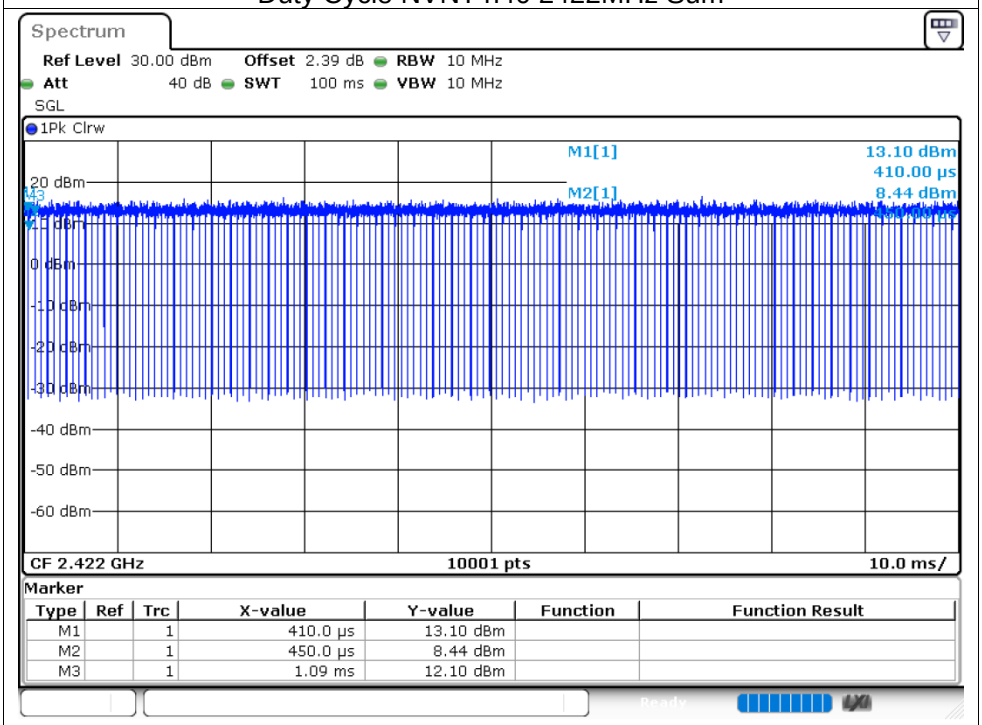
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	620.0 µs	17.21 dBm		
M2		1	720.0 µs	14.19 dBm		
M3		1	2.0 ms	18.33 dBm		

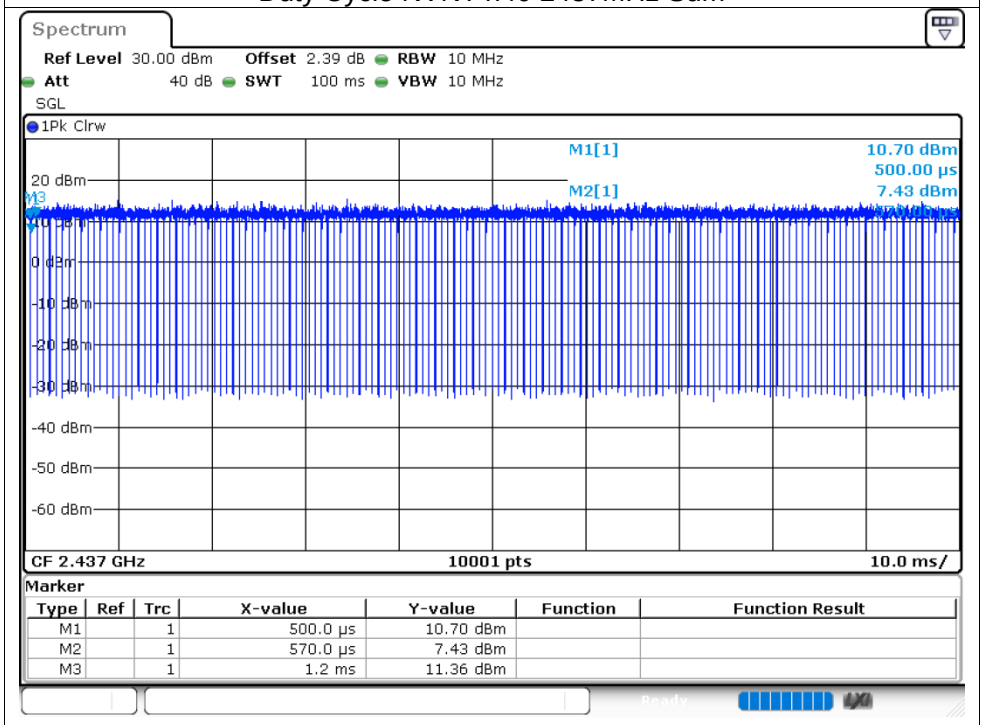
Duty Cycle NVNT n20 2462MHz Sum



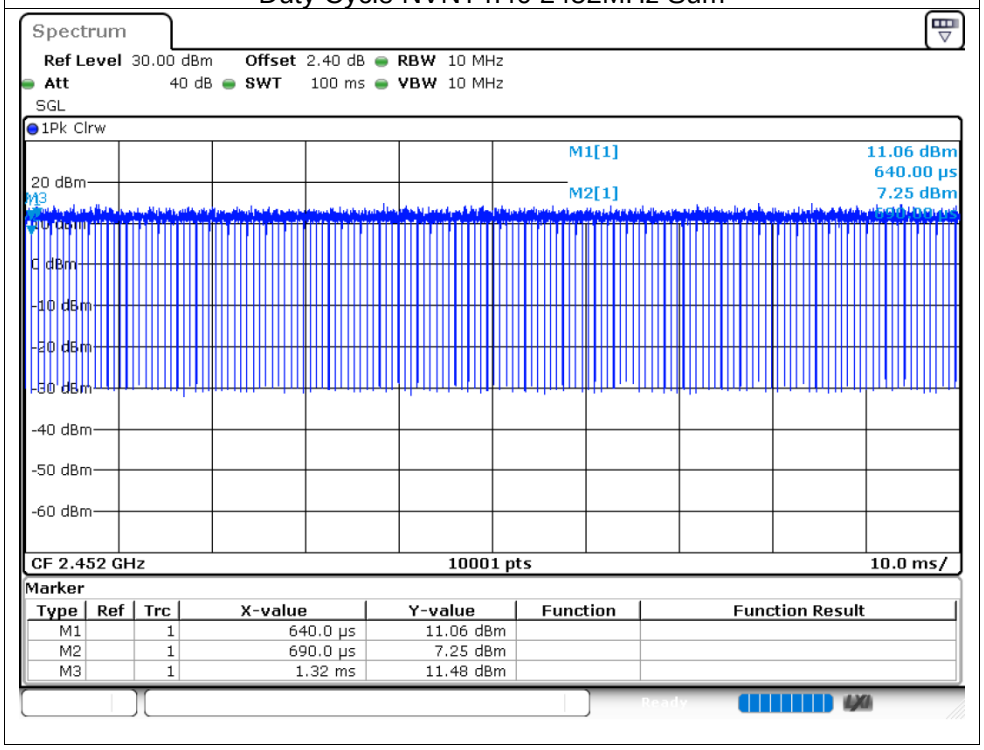
Duty Cycle NVNT n40 2422MHz Sum



Duty Cycle NVNT n40 2437MHz Sum



Duty Cycle NVNT n40 2452MHz Sum



8.2.2 Maximum Conducted Output Power

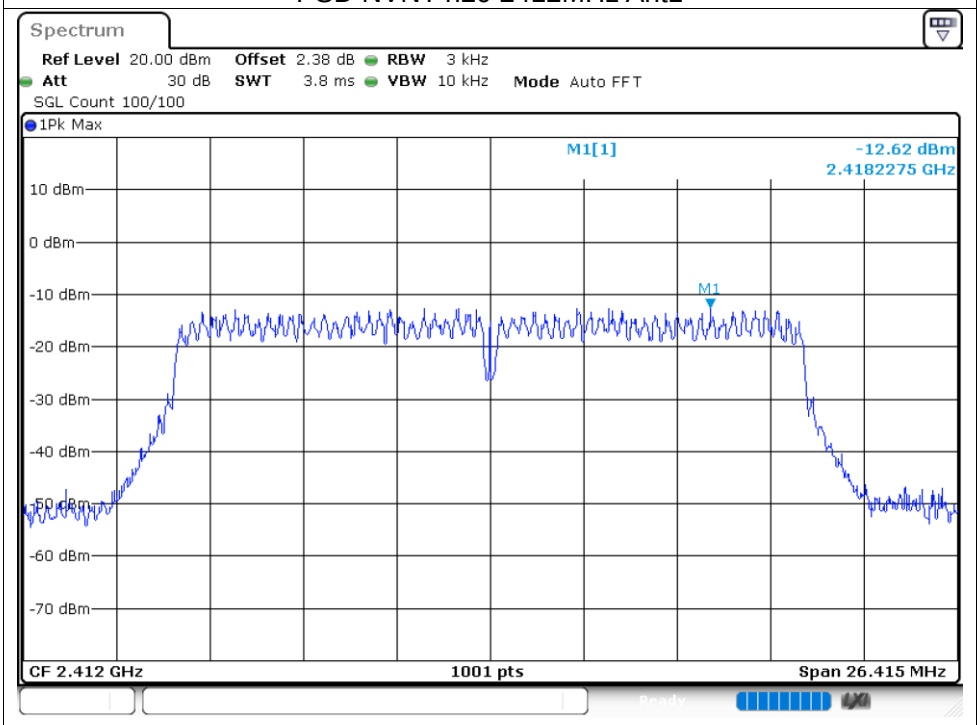
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant1	13.76	29.41	Pass
NVNT	n20	2412	Ant2	14.37	29.41	Pass
NVNT	n20	2412	Sum	17.09	29.41	Pass
NVNT	n20	2437	Ant1	13.74	29.41	Pass
NVNT	n20	2437	Ant2	12.87	29.41	Pass
NVNT	n20	2437	Sum	16.34	29.41	Pass
NVNT	n20	2462	Ant1	13.7	29.41	Pass
NVNT	n20	2462	Ant2	13.44	29.41	Pass
NVNT	n20	2462	Sum	16.58	29.41	Pass
NVNT	n40	2422	Ant1	11.34	29.41	Pass
NVNT	n40	2422	Ant2	10.99	29.41	Pass
NVNT	n40	2422	Sum	14.18	29.41	Pass
NVNT	n40	2437	Ant1	10.46	29.41	Pass
NVNT	n40	2437	Ant2	10.26	29.41	Pass
NVNT	n40	2437	Sum	13.37	29.41	Pass
NVNT	n40	2452	Ant1	10.48	29.41	Pass
NVNT	n40	2452	Ant2	10.51	29.41	Pass
NVNT	n40	2452	Sum	13.51	29.41	Pass

8.2.3 Maximum Power Spectral Density Level

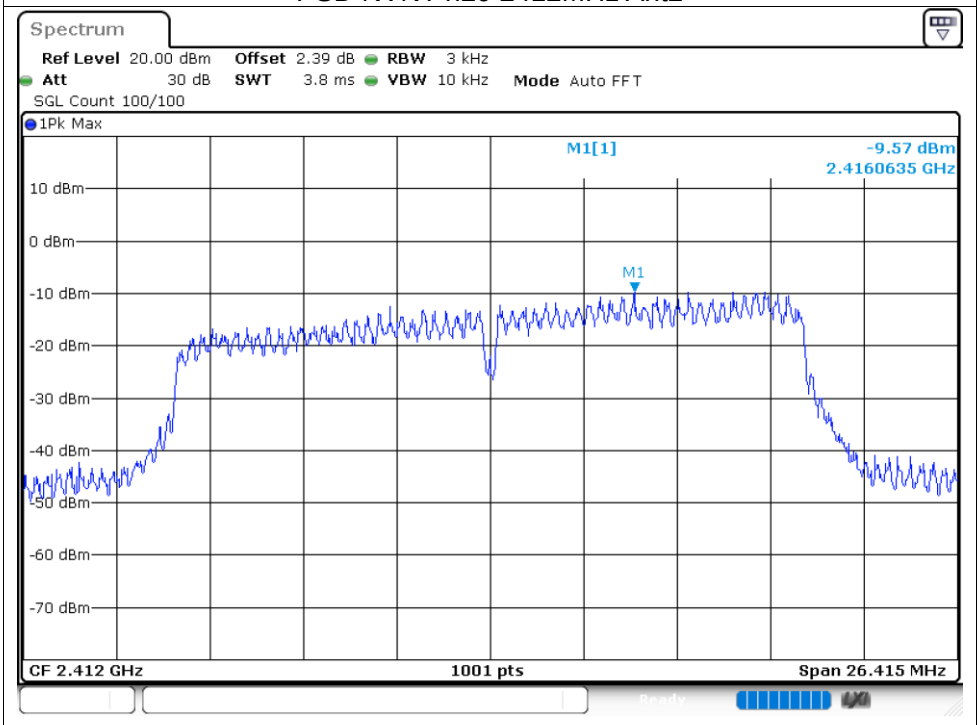
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant1	-12.62	7.41	Pass
NVNT	n20	2412	Ant2	-9.57	7.41	Pass
NVNT	n20	2412	Sum	-7.82	7.41	Pass
NVNT	n20	2437	Ant1	-11.14	7.41	Pass
NVNT	n20	2437	Ant2	-12.22	7.41	Pass
NVNT	n20	2437	Sum	-8.64	7.41	Pass
NVNT	n20	2462	Ant1	-10.99	7.41	Pass
NVNT	n20	2462	Ant2	-11.89	7.41	Pass
NVNT	n20	2462	Sum	-8.41	7.41	Pass
NVNT	n40	2422	Ant1	-14.49	7.41	Pass
NVNT	n40	2422	Ant2	-17.09	7.41	Pass
NVNT	n40	2422	Sum	-12.59	7.41	Pass
NVNT	n40	2437	Ant1	-17.08	7.41	Pass
NVNT	n40	2437	Ant2	-18.19	7.41	Pass
NVNT	n40	2437	Sum	-14.59	7.41	Pass
NVNT	n40	2452	Ant1	-18.42	7.41	Pass
NVNT	n40	2452	Ant2	-15.33	7.41	Pass
NVNT	n40	2452	Sum	-13.6	7.41	Pass

Test Graphs

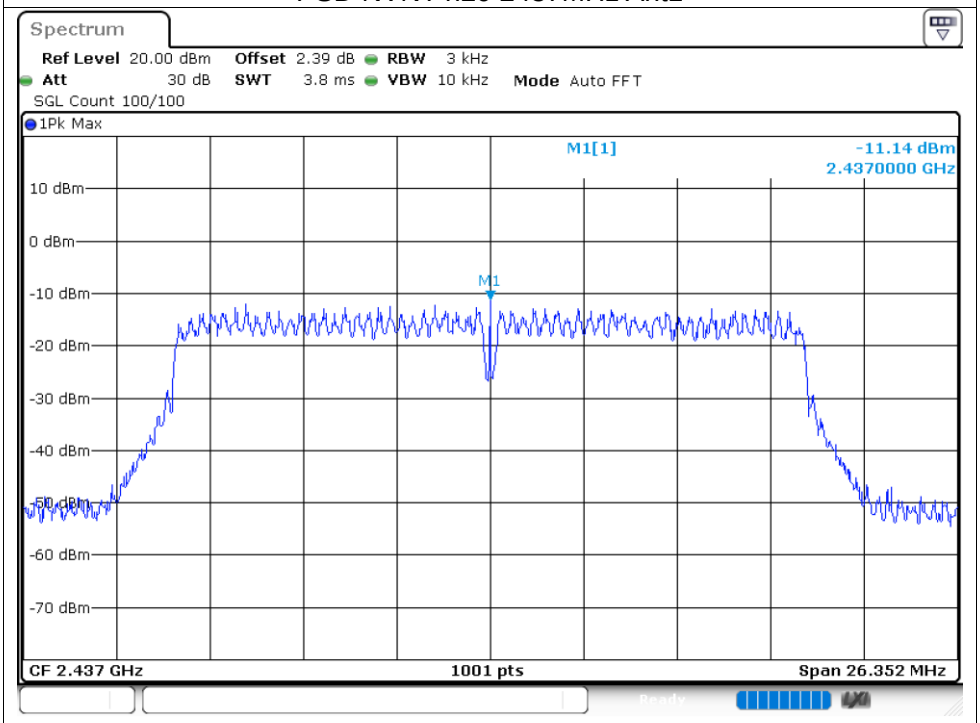
PSD NVNT n20 2412MHz Ant1



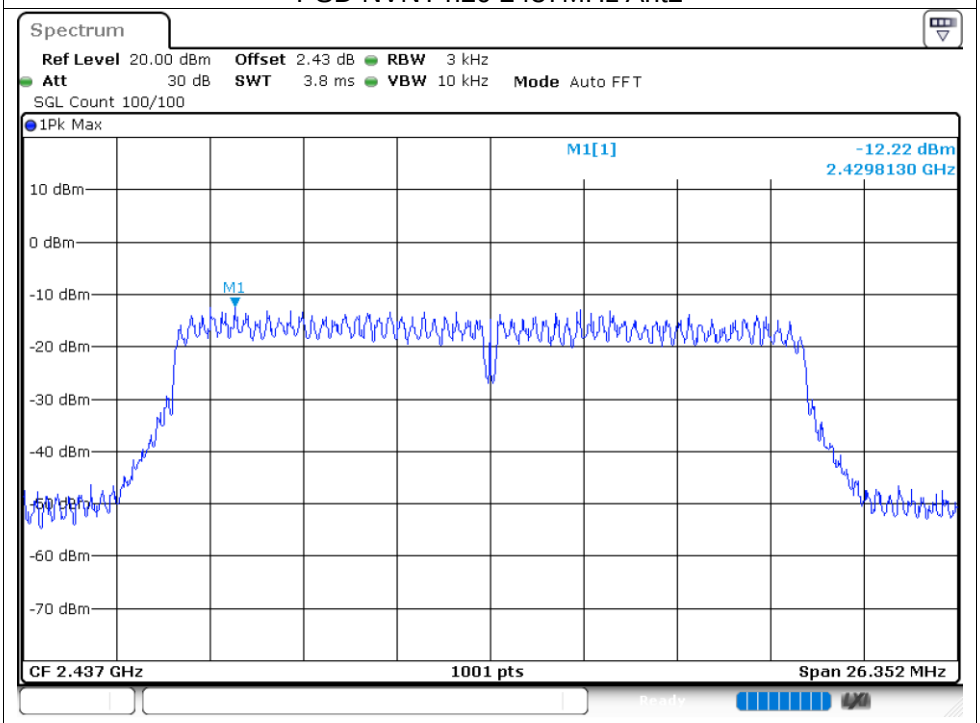
PSD NVNT n20 2412MHz Ant2



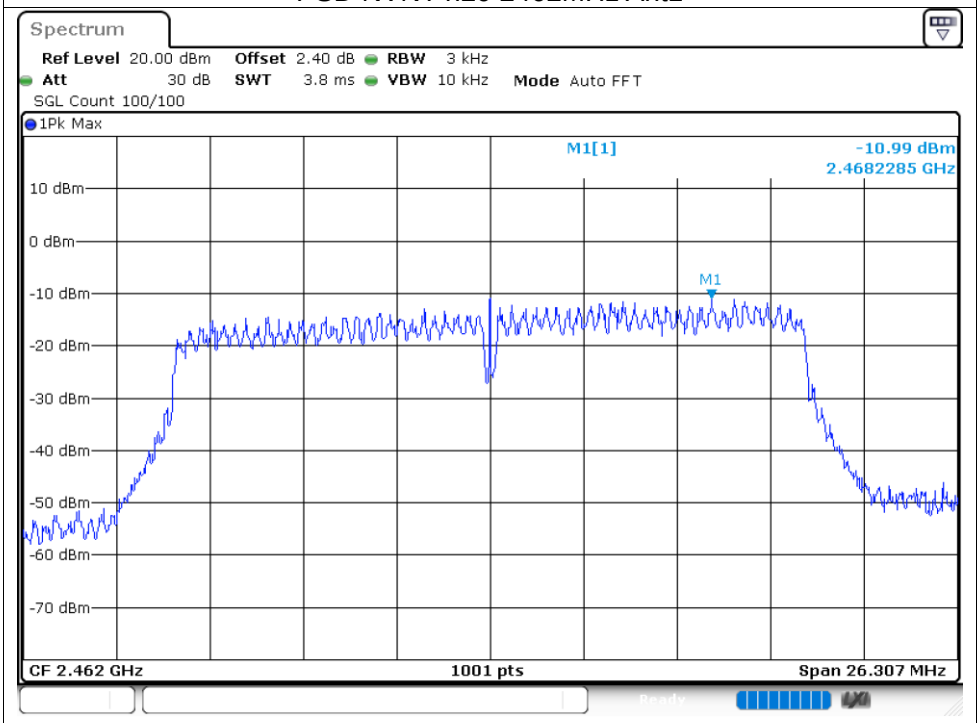
PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2437MHz Ant2



PSD NVNT n20 2462MHz Ant1



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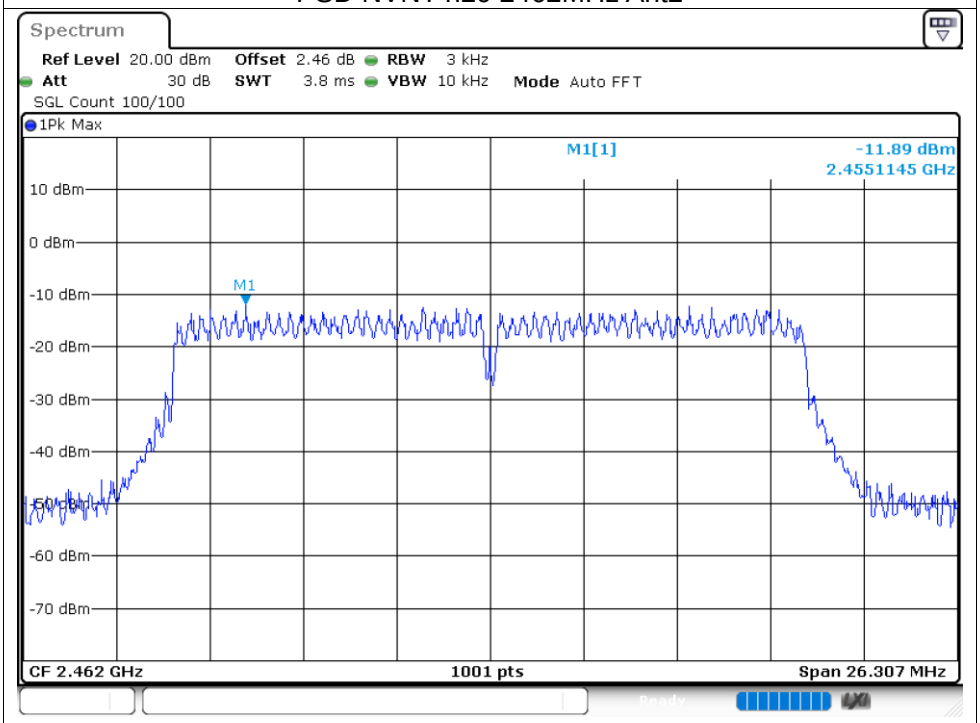
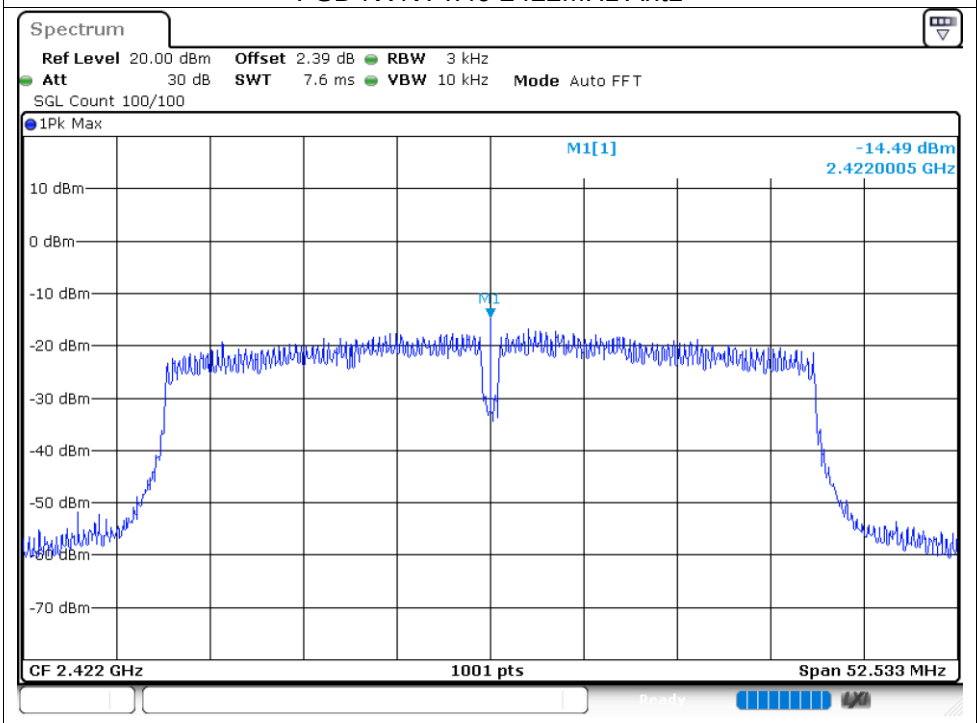
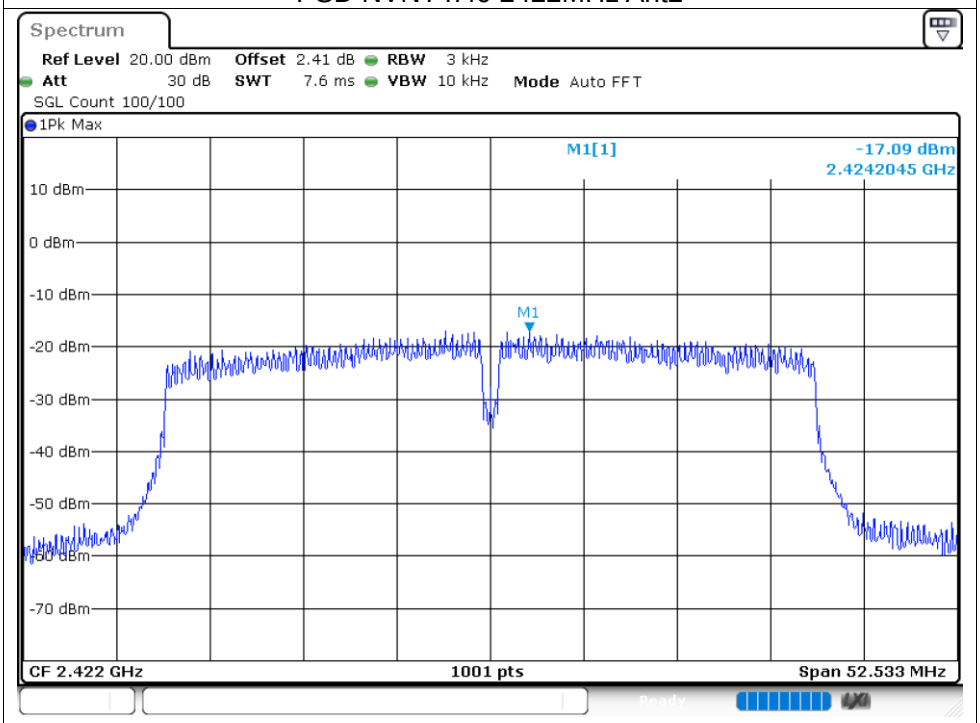


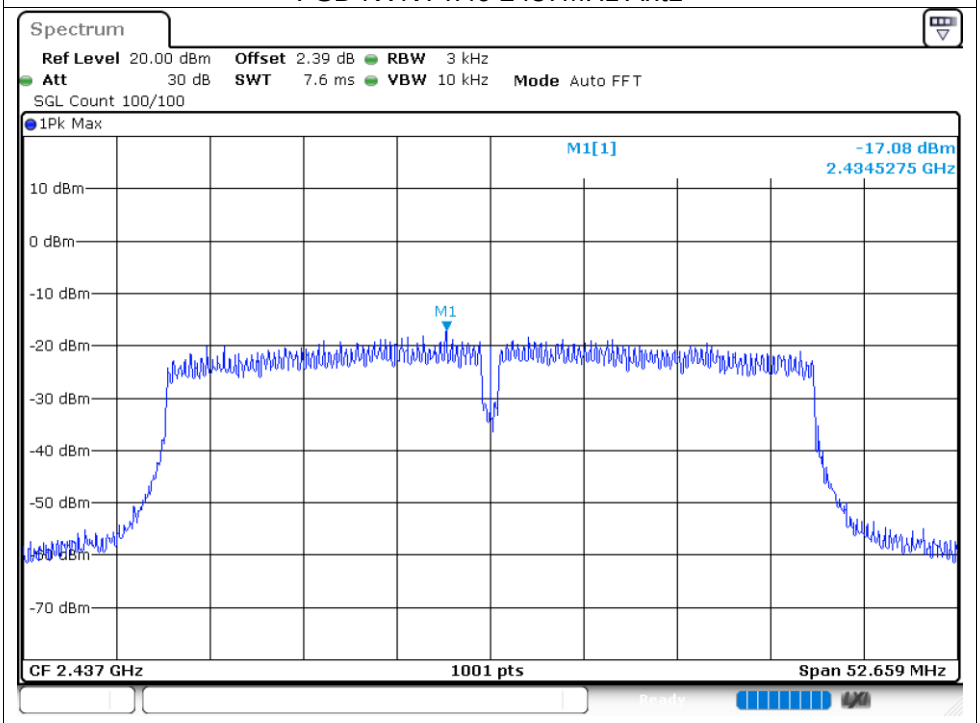
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2422MHz Ant2



PSD NVNT n40 2437MHz Ant1



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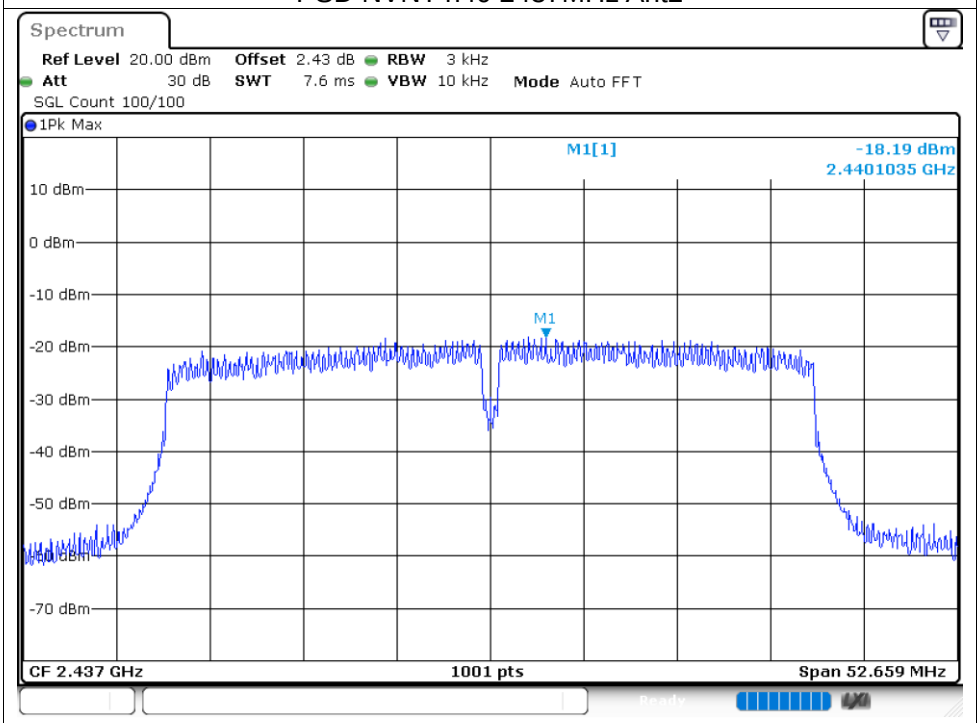
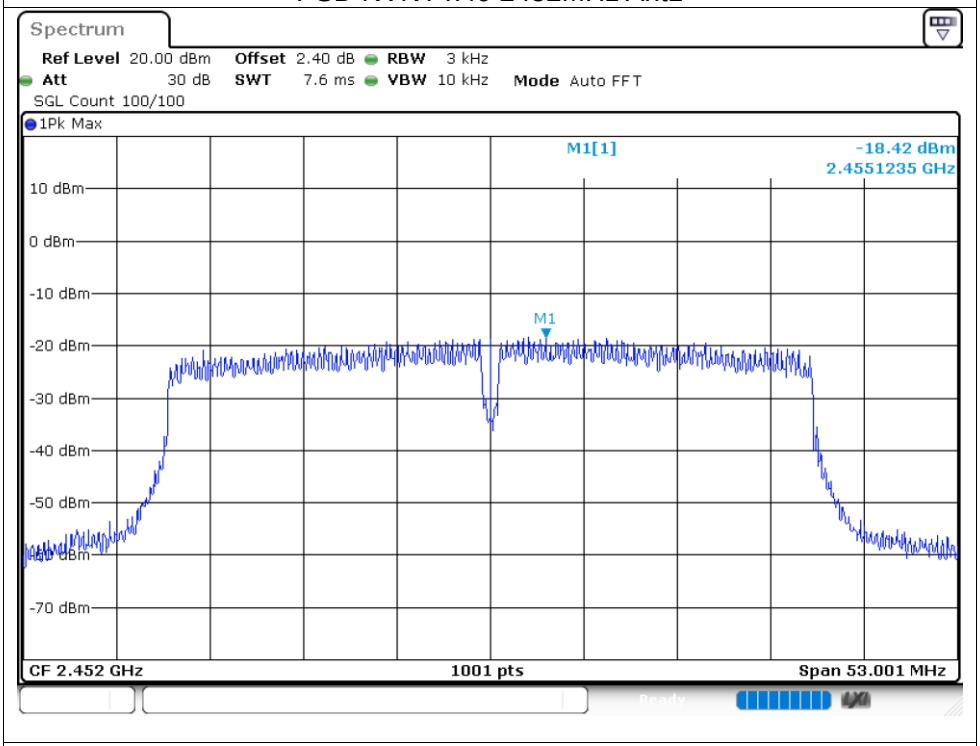
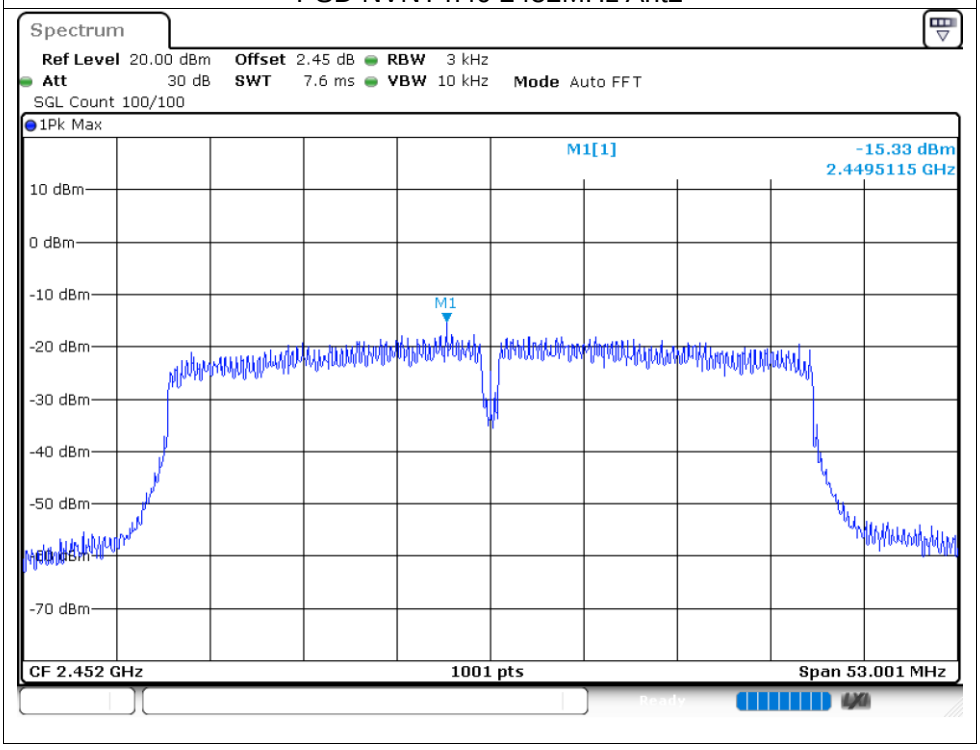


PSD NVNT n40 2452MHz Ant1



PSD NVNT n40 2452MHz Ant2



END OF REPORT