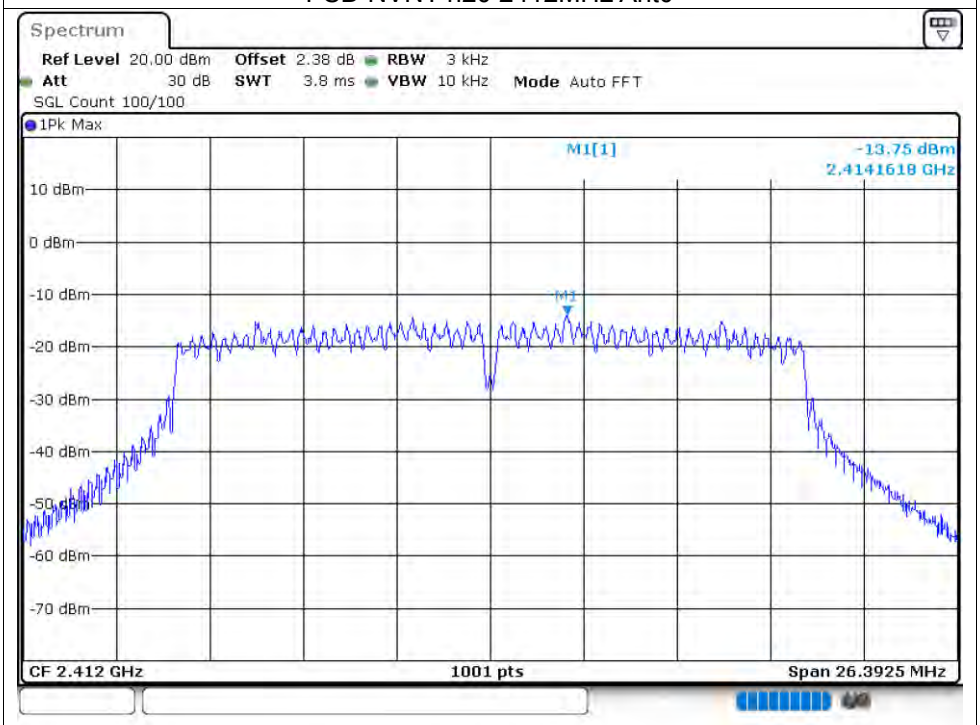
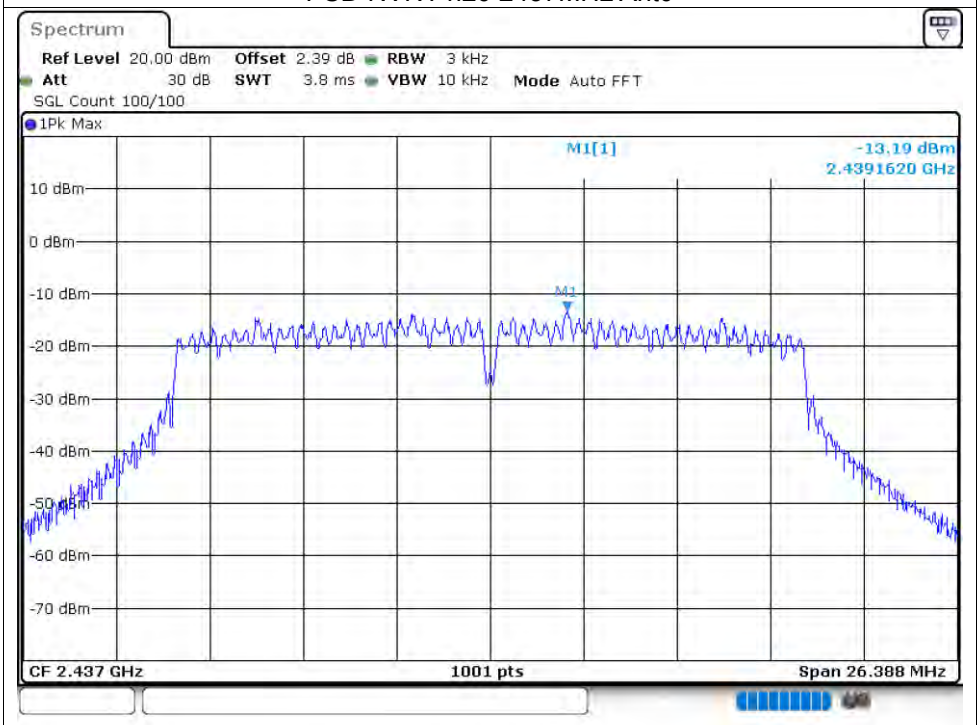
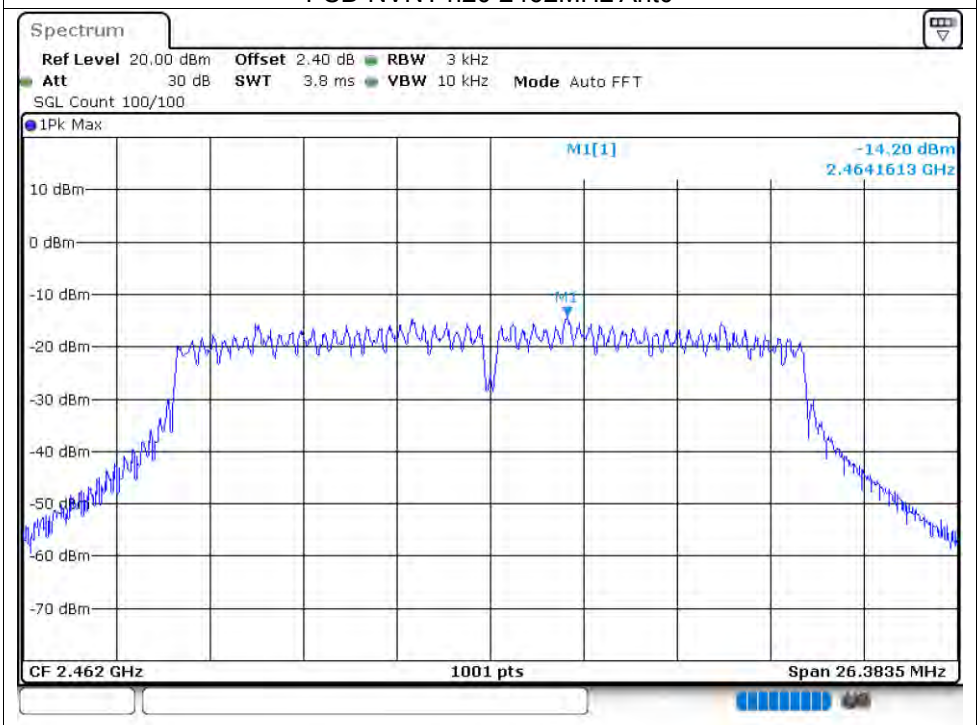
PSD NVNT n20 2412MHz Ant0



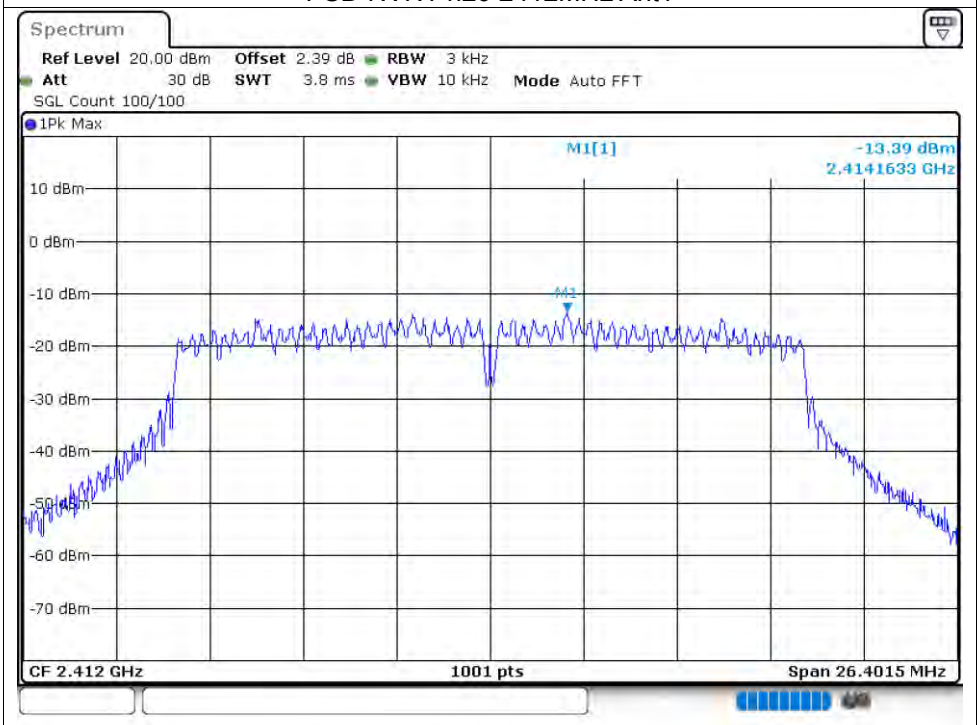
PSD NVNT n20 2437MHz Ant0



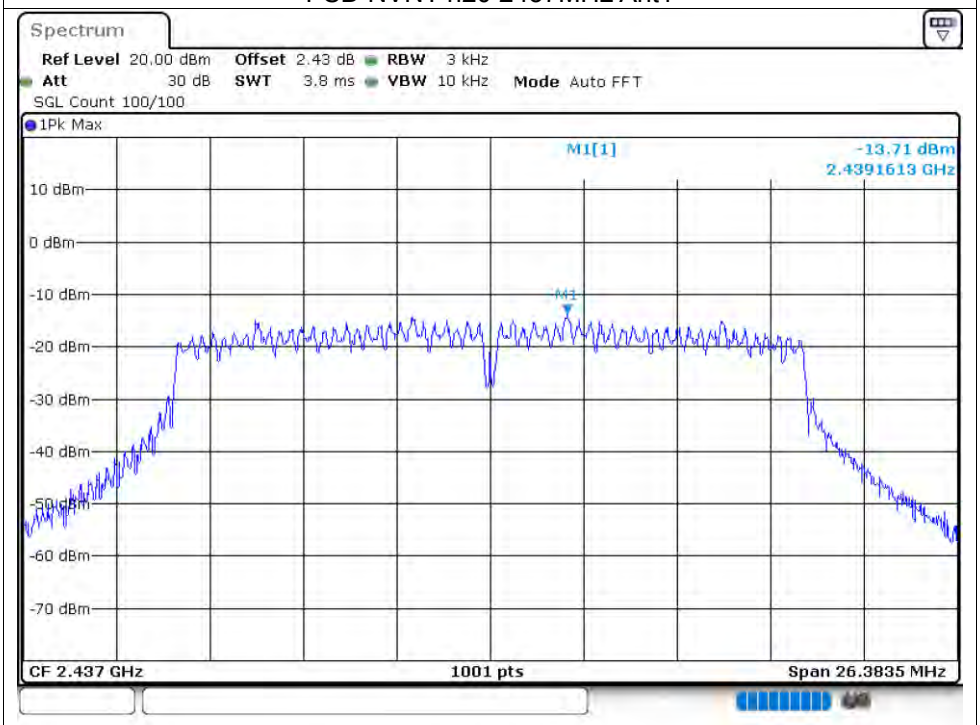
PSD NVNT n20 2462MHz Ant0



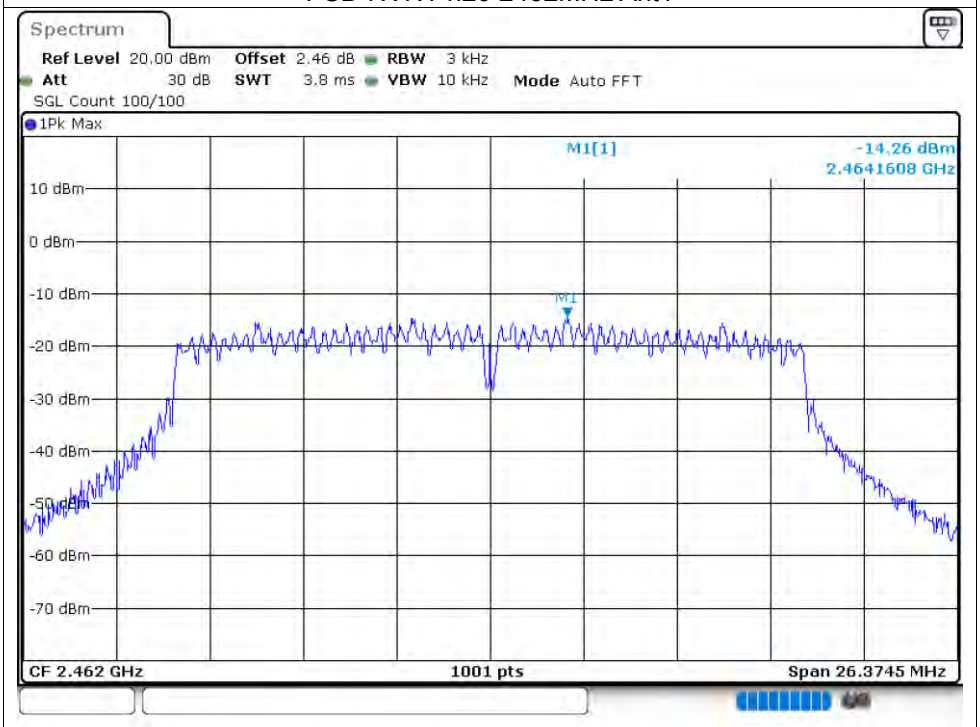
PSD NVNT n20 2412MHz Ant1



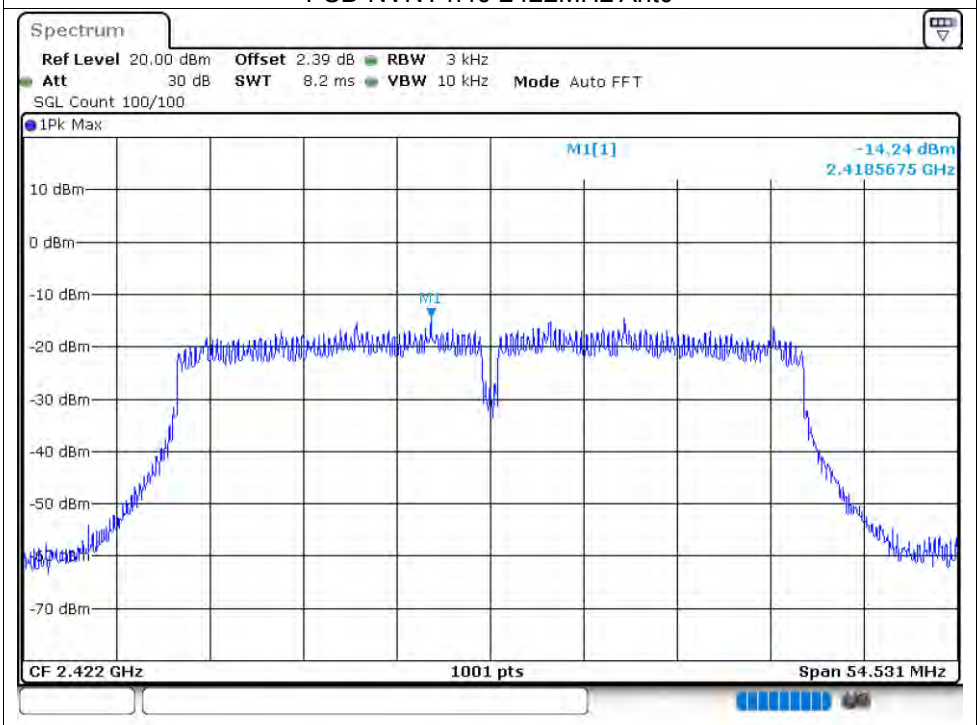
PSD NVNT n20 2437MHz Ant1



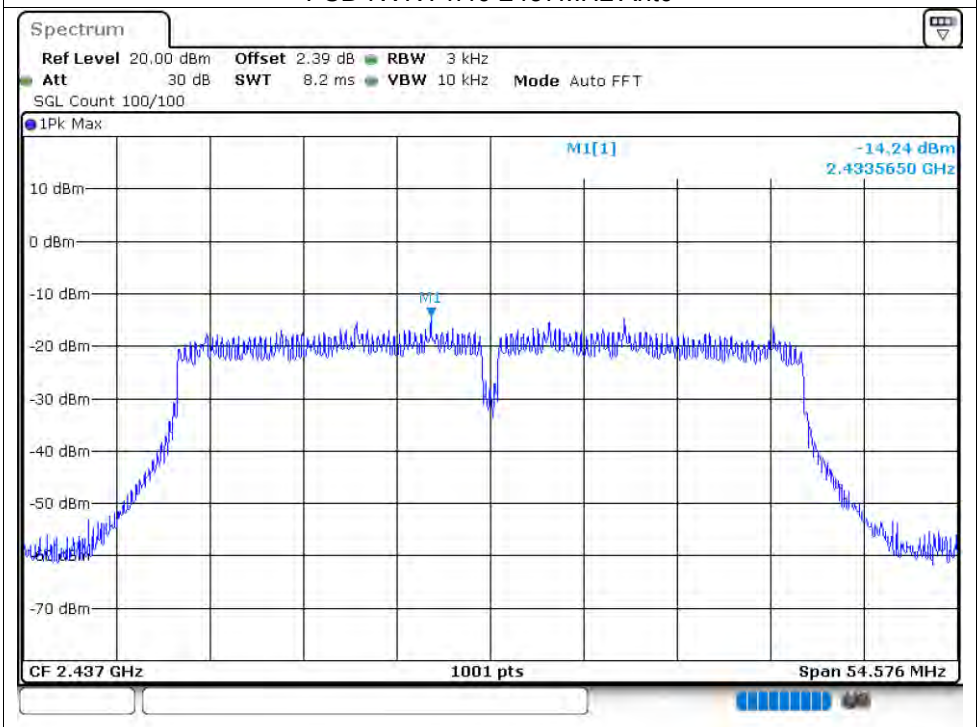
PSD NVNT n20 2462MHz Ant1



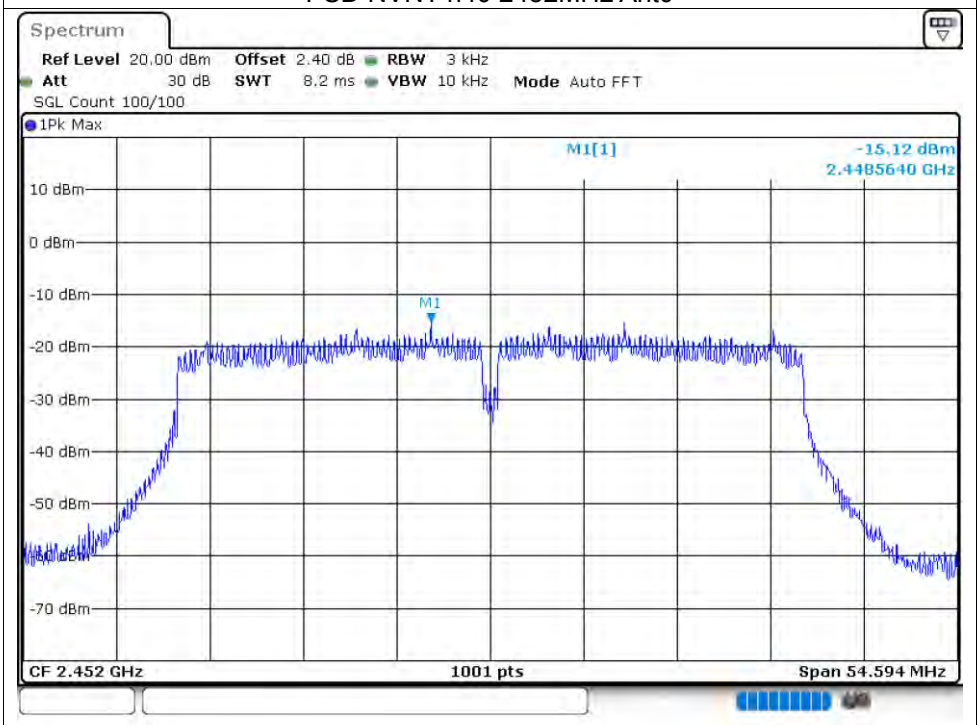
PSD NVNT n40 2422MHz Ant0



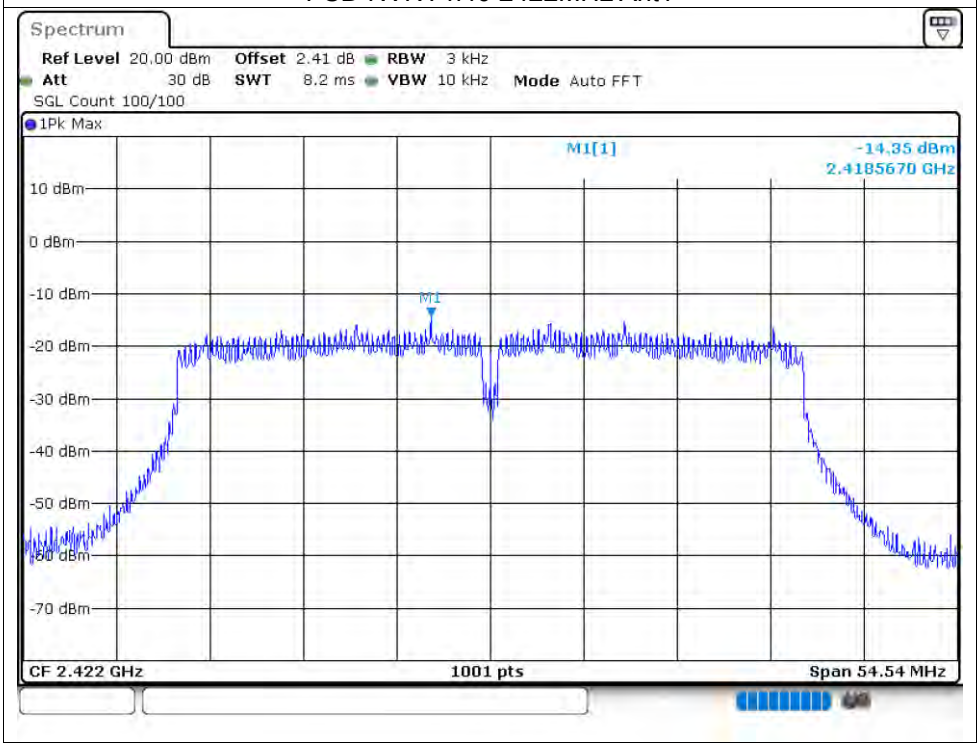
PSD NVNT n40 2437MHz Ant0



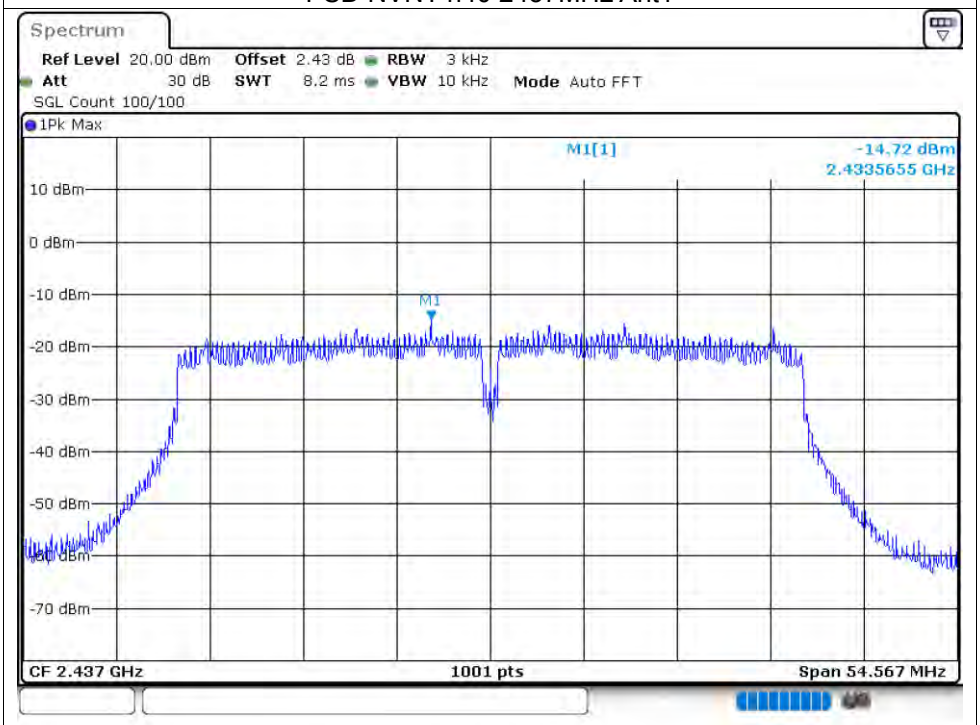
PSD NVNT n40 2452MHz Ant0



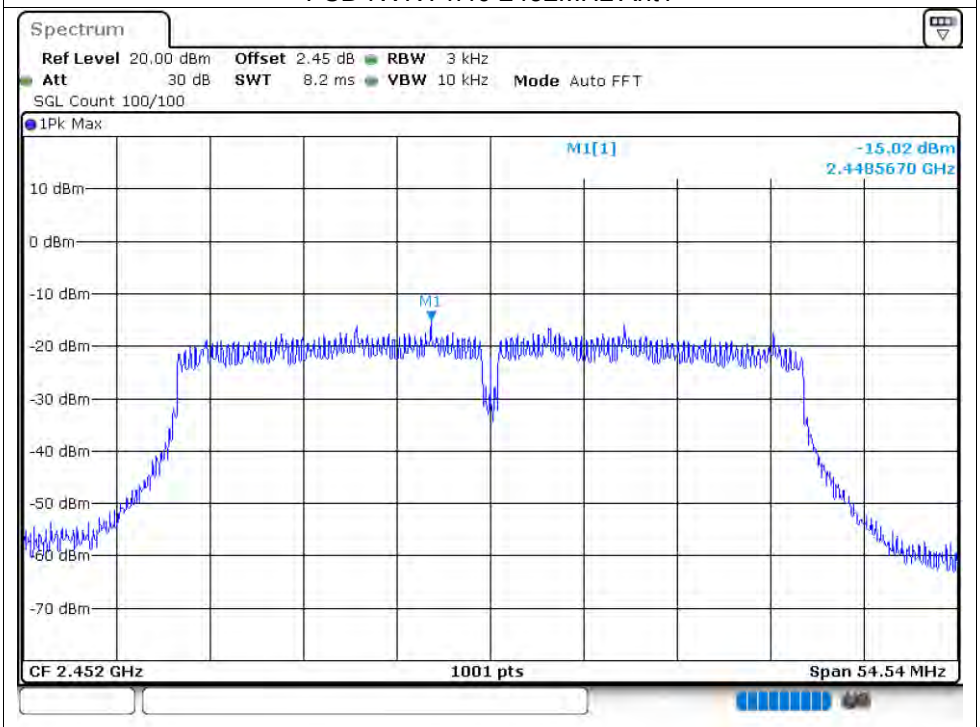
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

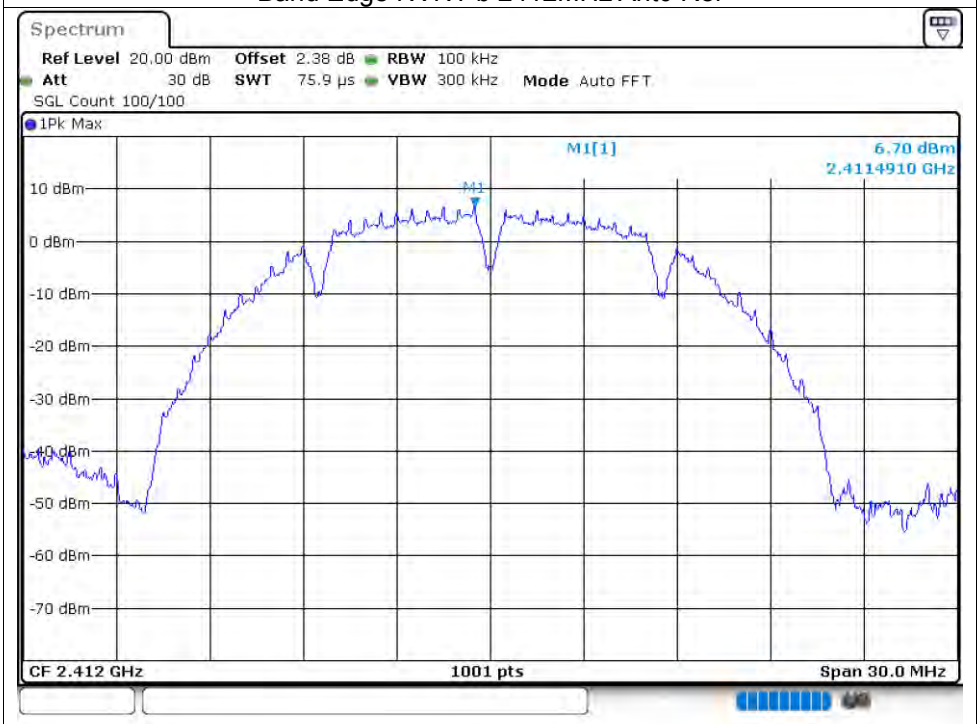


8.1.6 **Band Edge**

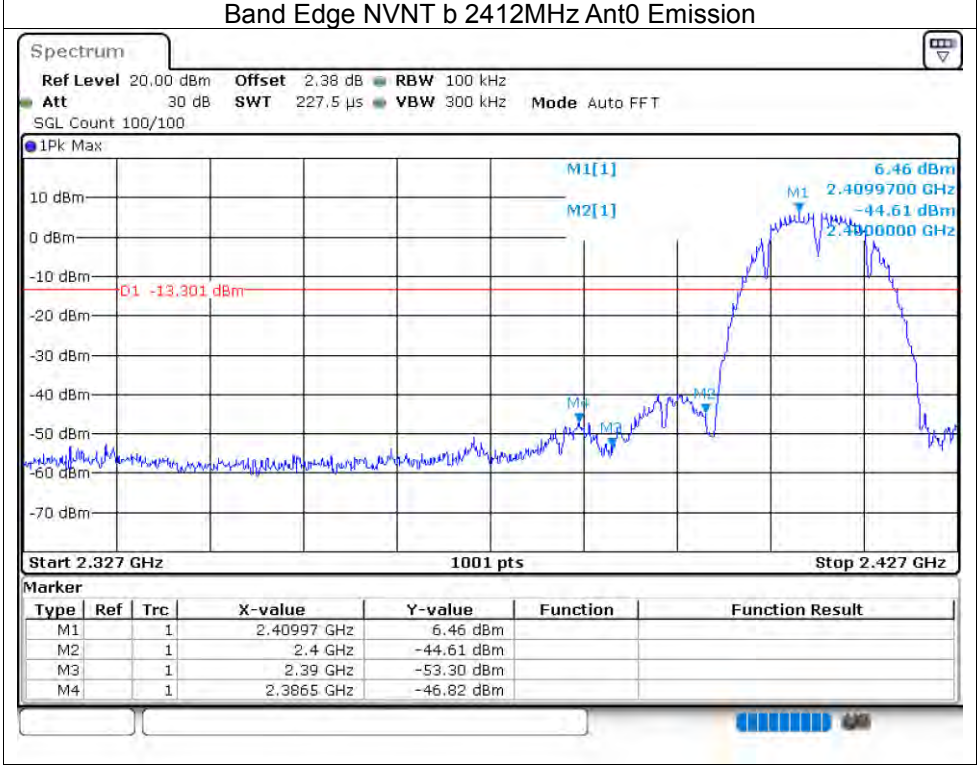
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-53.52	-20	Pass
NVNT	b	2462	Ant0	-57.3	-20	Pass
NVNT	b	2412	Ant1	-53.12	-20	Pass
NVNT	b	2462	Ant1	-57.07	-20	Pass
NVNT	g	2412	Ant0	-54.52	-20	Pass
NVNT	g	2462	Ant0	-55.74	-20	Pass
NVNT	g	2412	Ant1	-45.46	-20	Pass
NVNT	g	2462	Ant1	-46.86	-20	Pass
NVNT	n20	2412	Ant0	-48.33	-20	Pass
NVNT	n20	2462	Ant0	-49.34	-20	Pass
NVNT	n20	2412	Ant1	-44.3	-20	Pass
NVNT	n20	2462	Ant1	-45.77	-20	Pass
NVNT	n40	2422	Ant0	-42.43	-20	Pass
NVNT	n40	2452	Ant0	-42.64	-20	Pass
NVNT	n40	2422	Ant1	-37.49	-20	Pass
NVNT	n40	2452	Ant1	-41.71	-20	Pass

Test Graphs

Band Edge NVNT b 2412MHz Ant0 Ref



Band Edge NVNT b 2412MHz Ant0 Emission

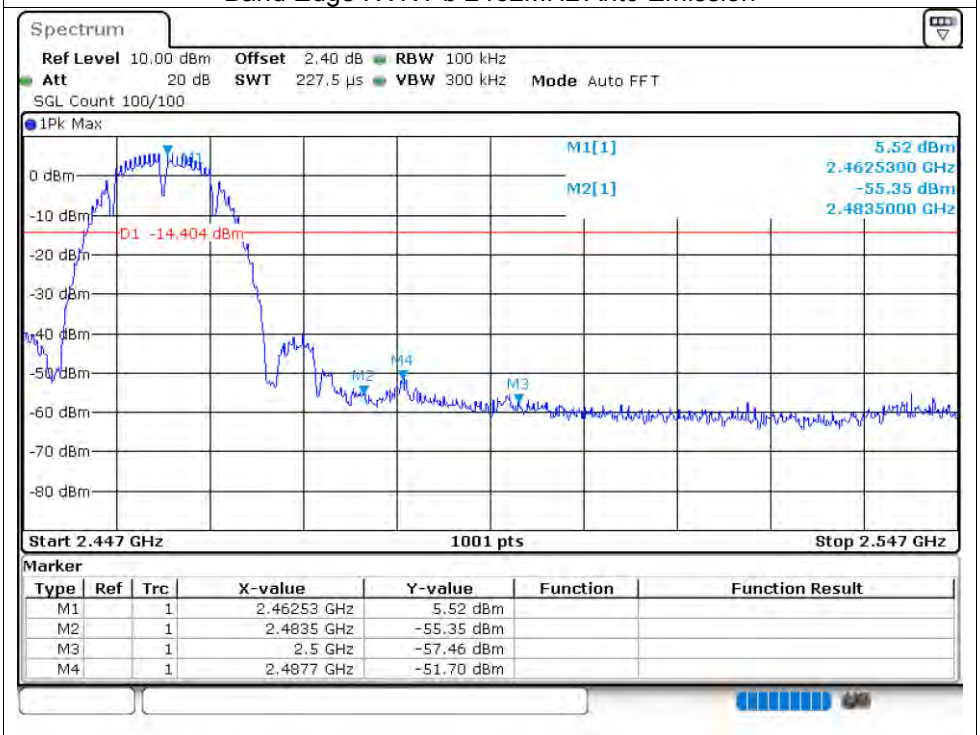


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40997 GHz	6.46 dBm		
M2		1	2.4 GHz	-44.61 dBm		
M3		1	2.39 GHz	-53.30 dBm		
M4		1	2.3865 GHz	-46.82 dBm		

Band Edge NVNT b 2462MHz Ant0 Ref

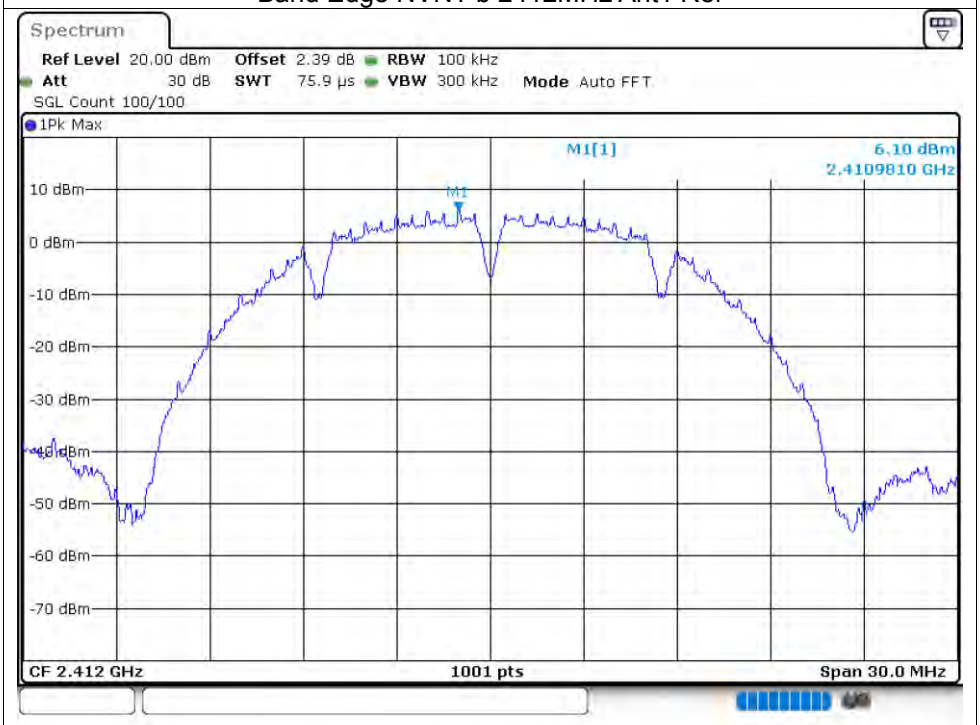
Band Edge NVNT b 2462MHz Ant0 Emission



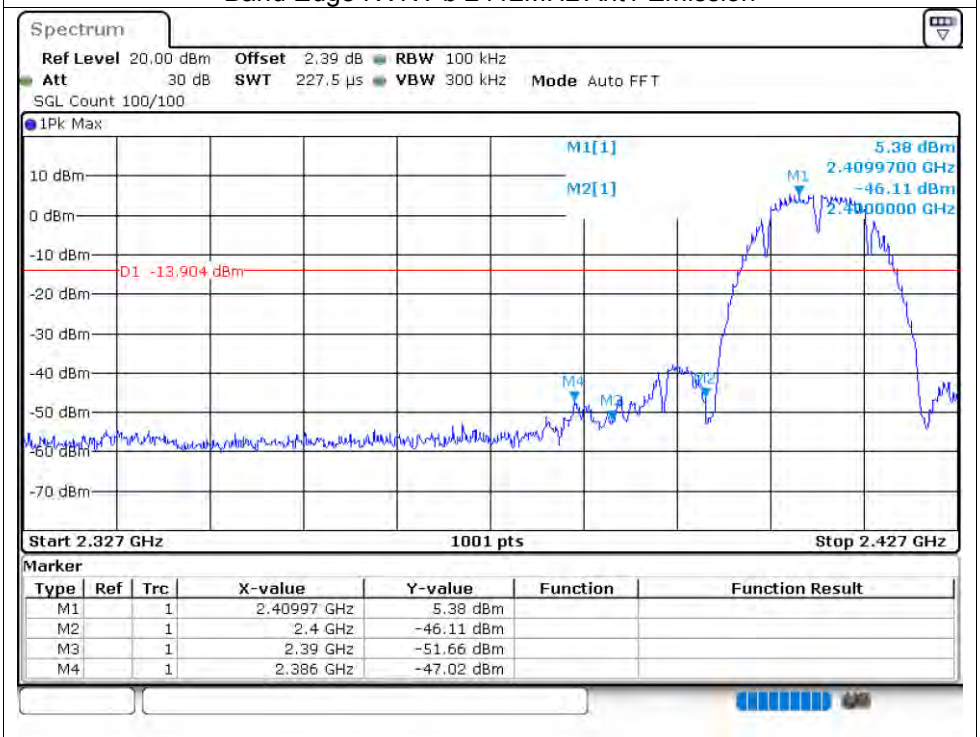
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46253 GHz	5.52 dBm		
M2		1	2.4835 GHz	-55.35 dBm		
M3		1	2.5 GHz	-57.46 dBm		
M4		1	2.4877 GHz	-51.70 dBm		

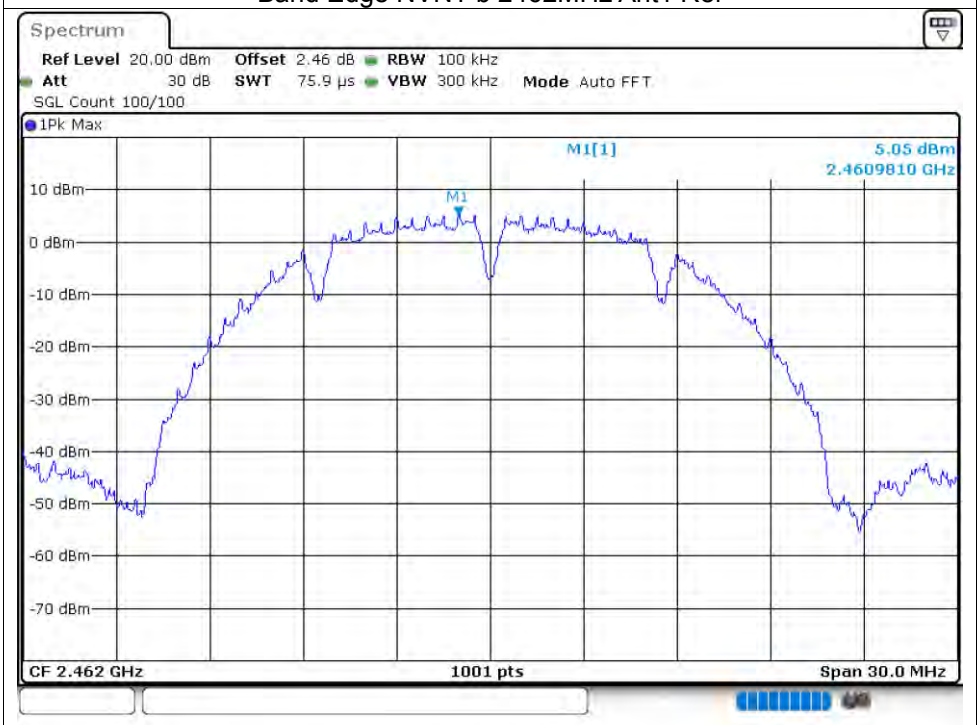
Band Edge NVNT b 2412MHz Ant1 Ref



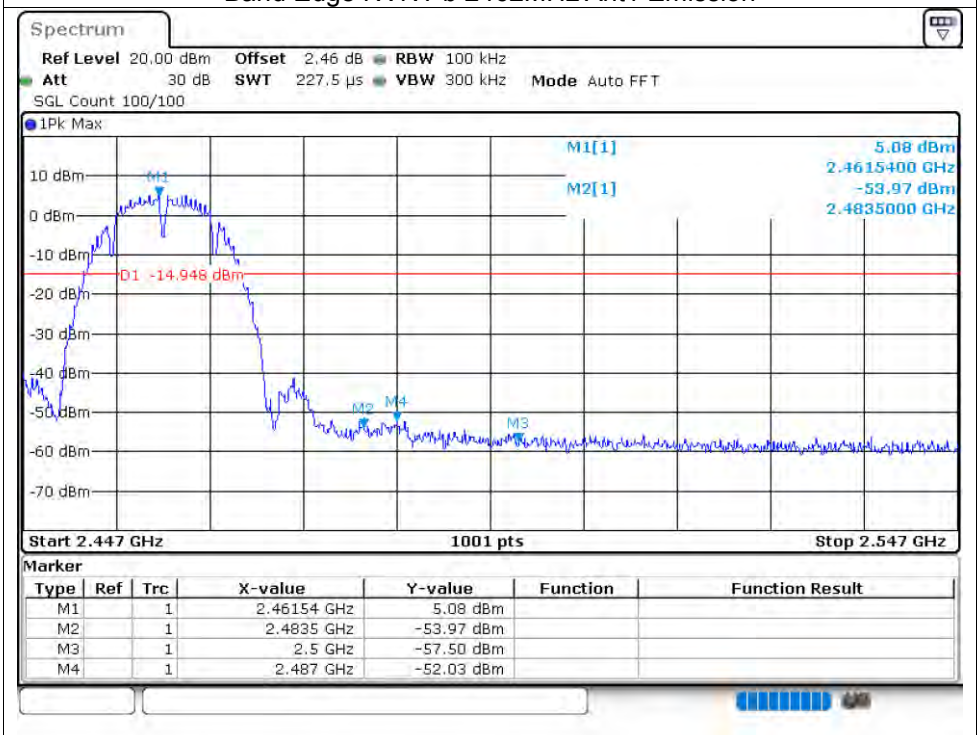
Band Edge NVNT b 2412MHz Ant1 Emission



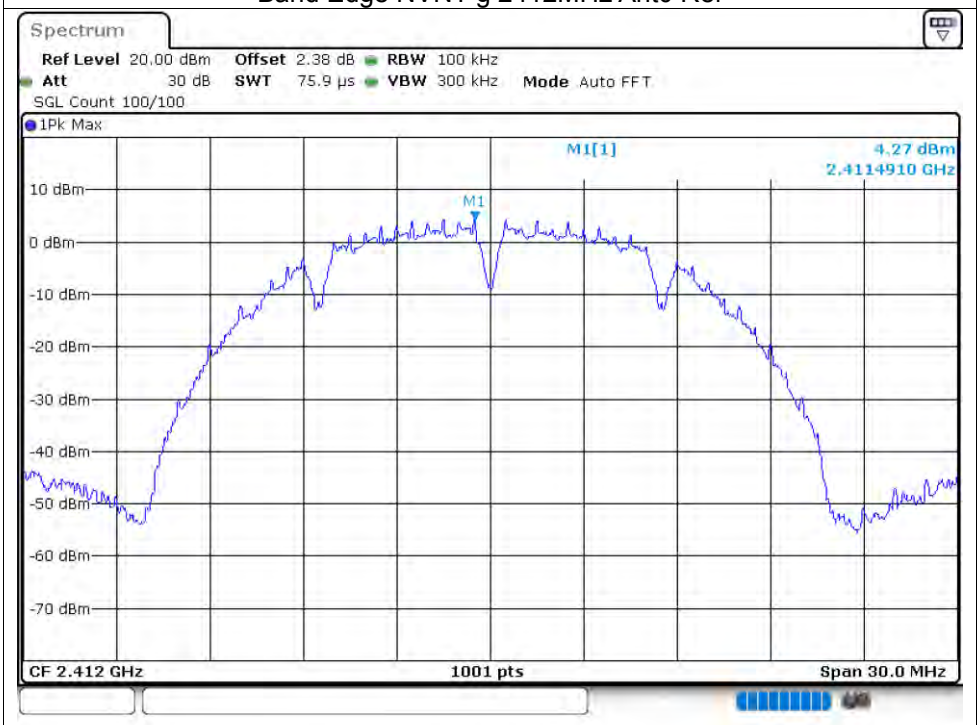
Band Edge NVNT b 2462MHz Ant1 Ref



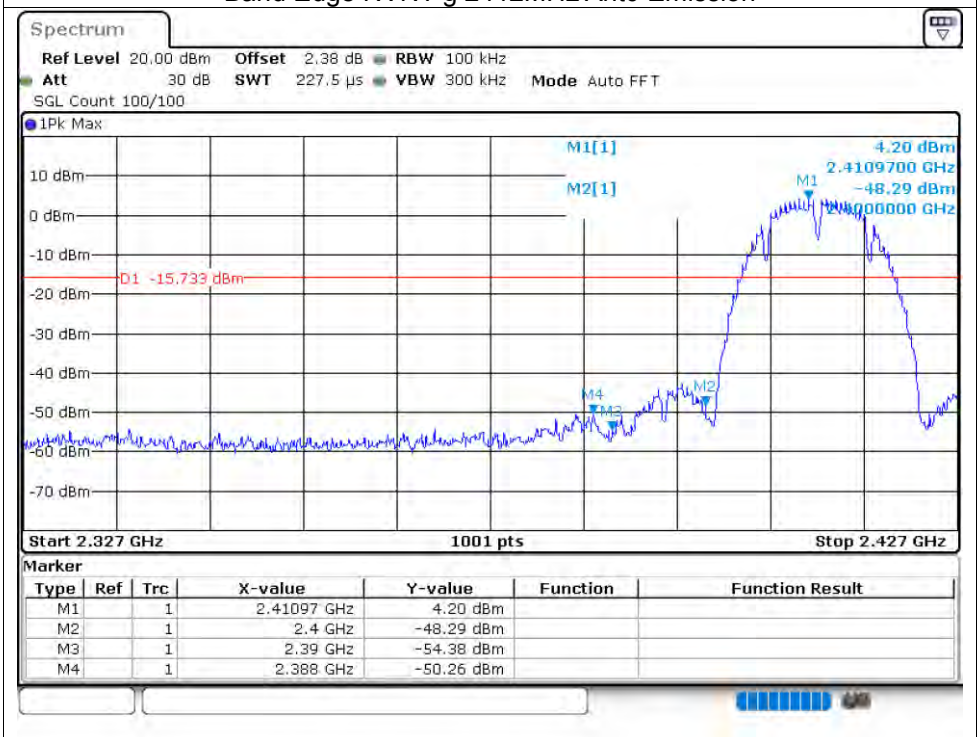
Band Edge NVNT b 2462MHz Ant1 Emission



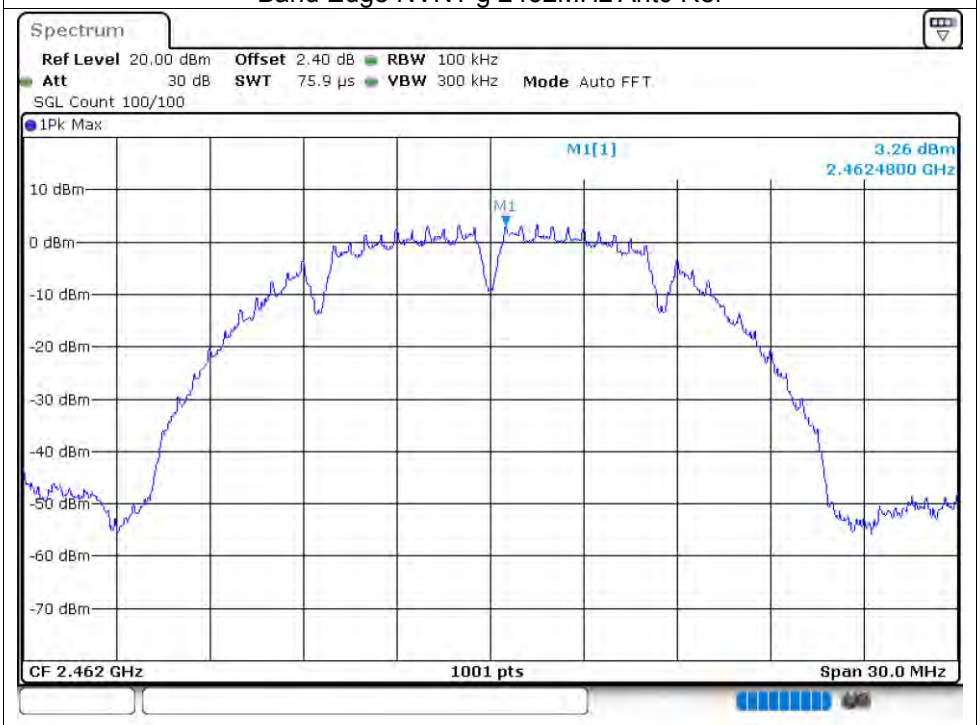
Band Edge NVNT g 2412MHz Ant0 Ref



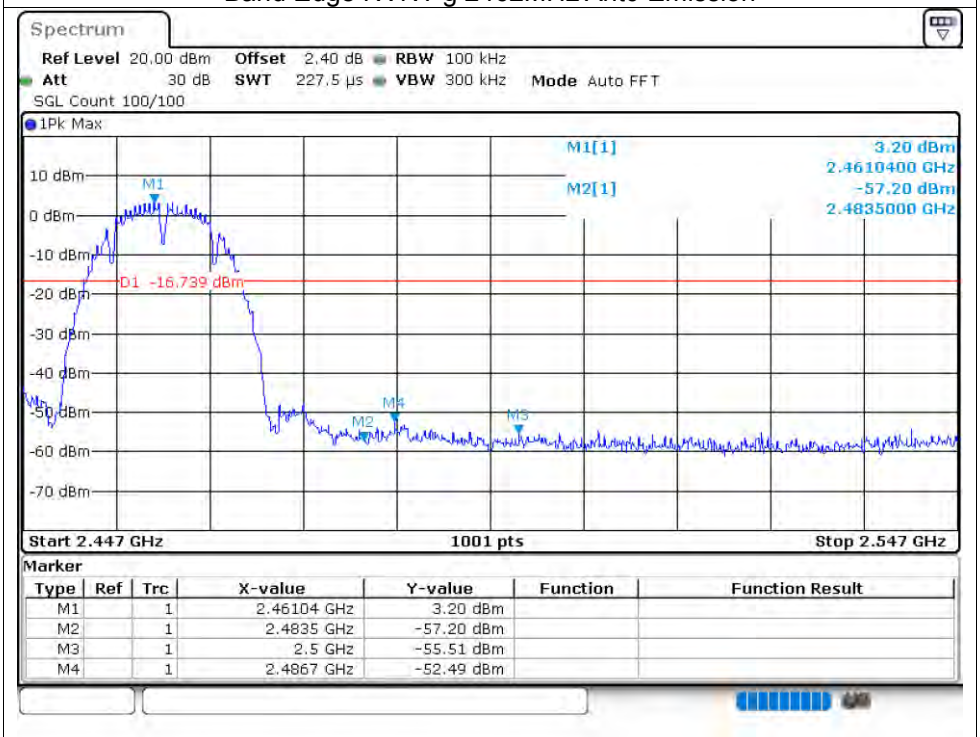
Band Edge NVNT g 2412MHz Ant0 Emission



Band Edge NVNT g 2462MHz Ant0 Ref

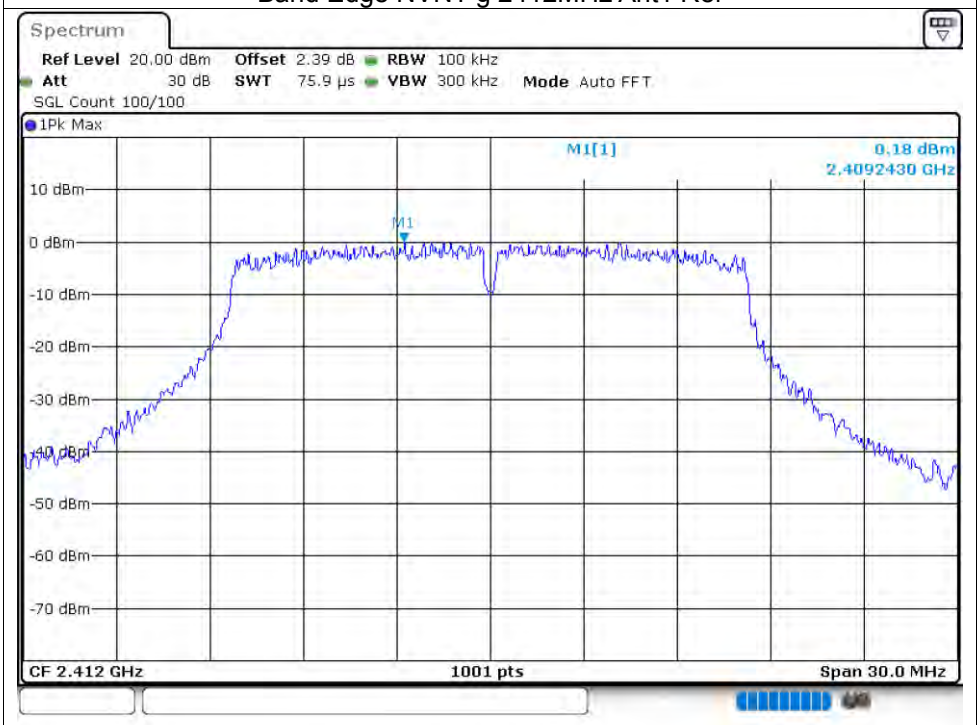


Band Edge NVNT g 2462MHz Ant0 Emission

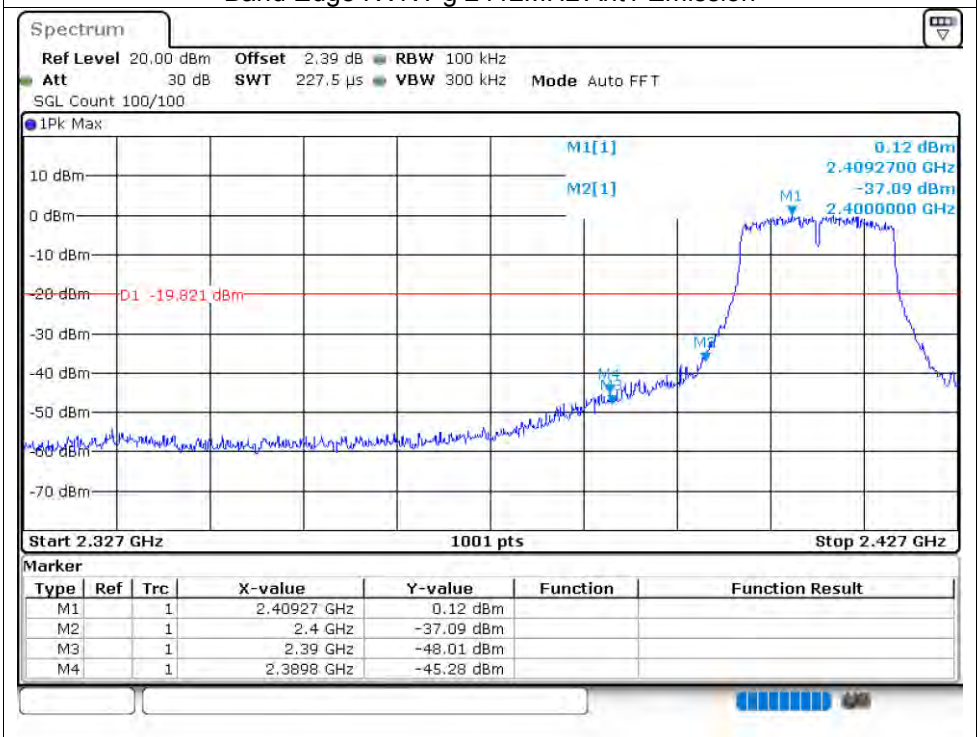


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46104 GHz	3.20 dBm		
M2		1	2.4835 GHz	-57.20 dBm		
M3		1	2.5 GHz	-55.51 dBm		
M4		1	2.4867 GHz	-52.49 dBm		

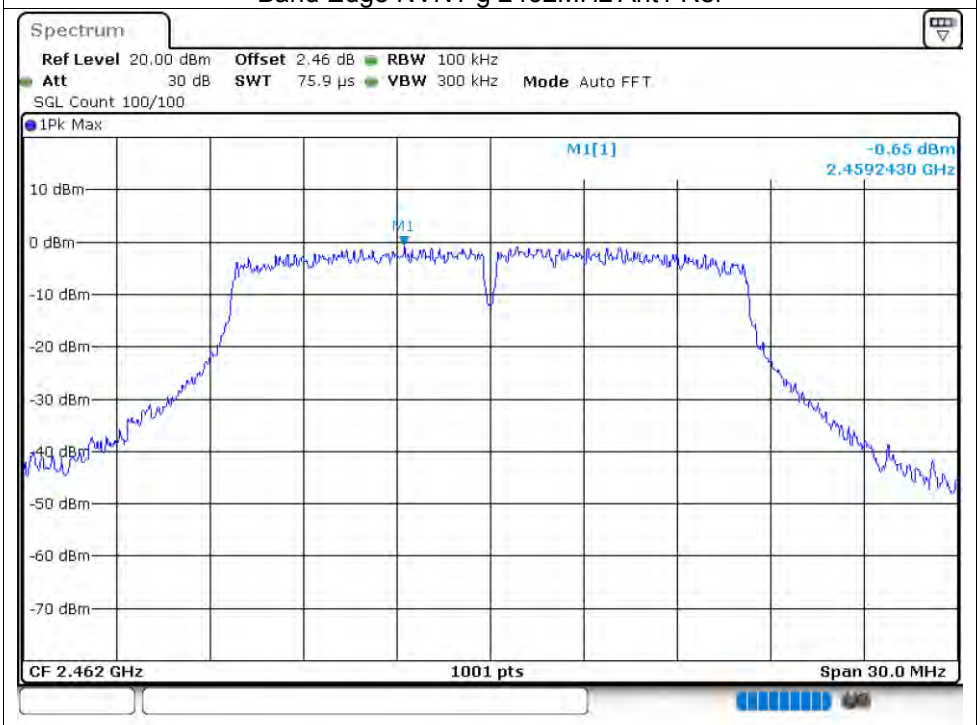
Band Edge NVNT g 2412MHz Ant1 Ref



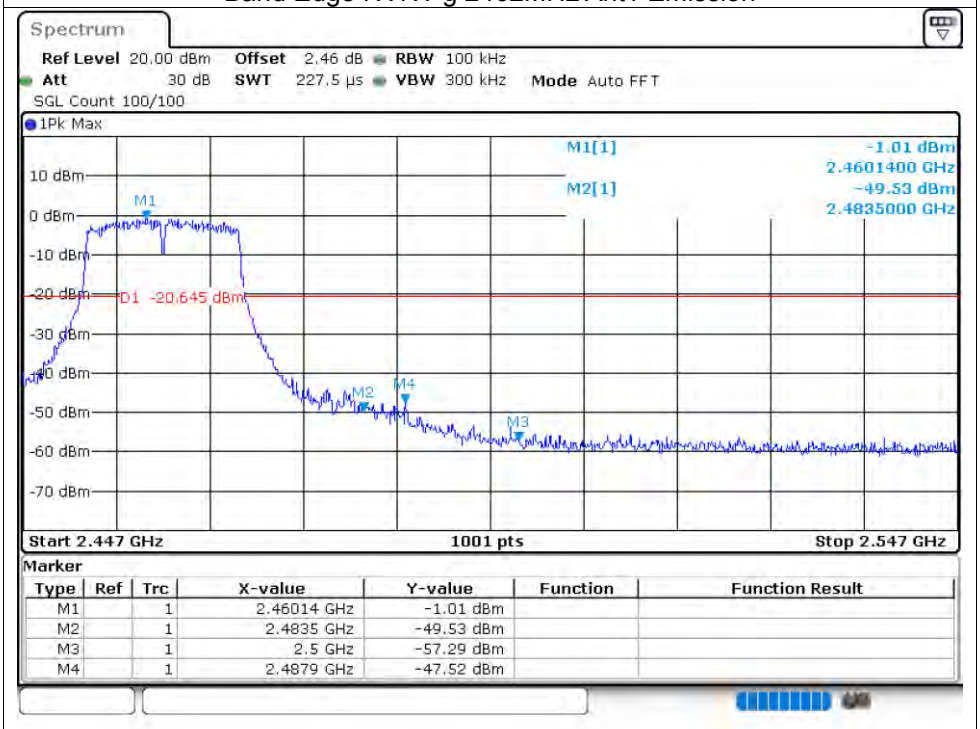
Band Edge NVNT g 2412MHz Ant1 Emission



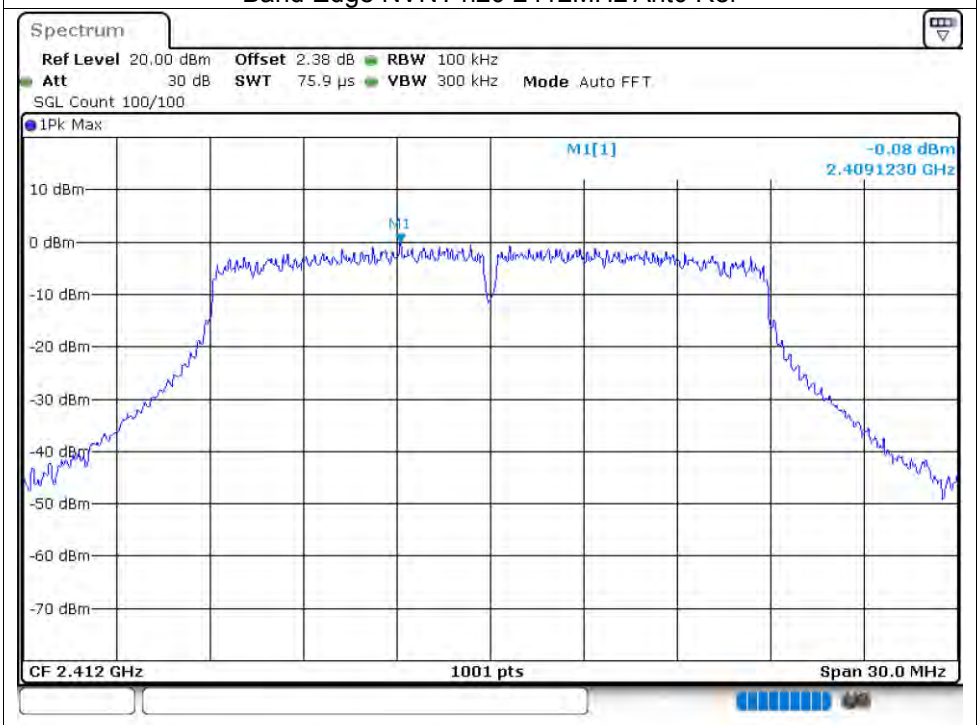
Band Edge NVNT g 2462MHz Ant1 Ref



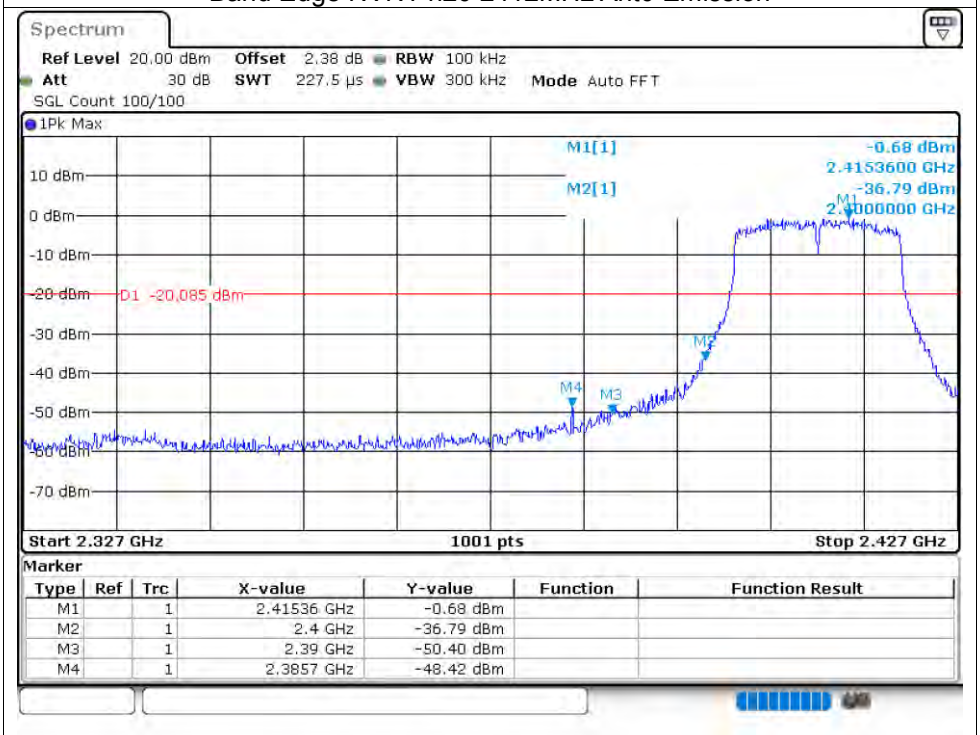
Band Edge NVNT g 2462MHz Ant1 Emission



Band Edge NVNT n20 2412MHz Ant0 Ref

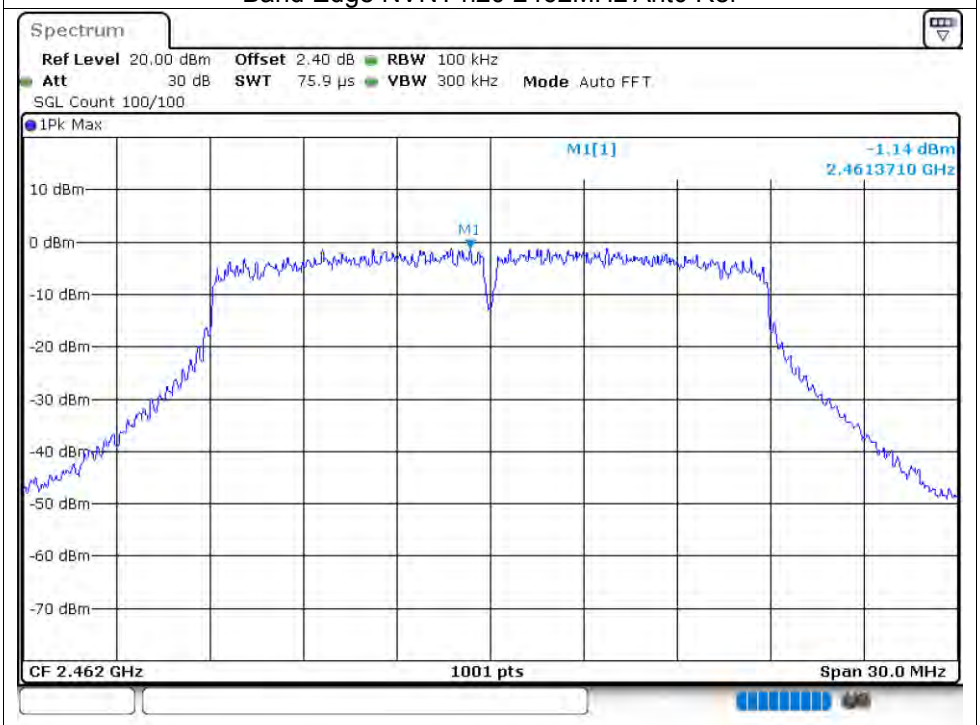


Band Edge NVNT n20 2412MHz Ant0 Emission

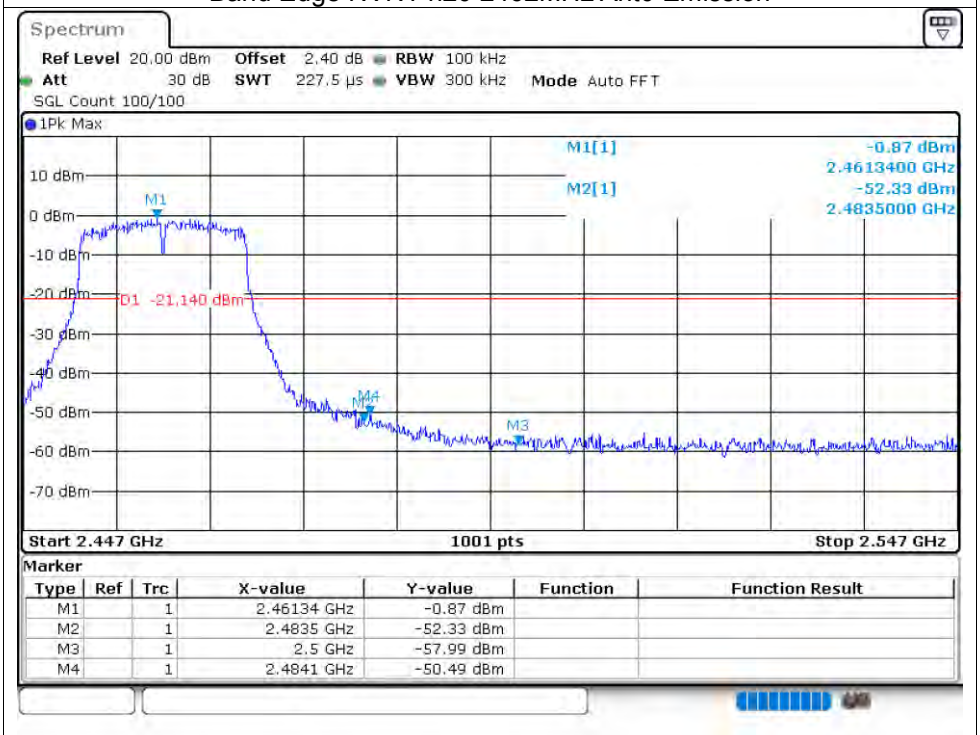


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41536 GHz	-0.68 dBm		
M2		1	2.4 GHz	-36.79 dBm		
M3		1	2.39 GHz	-50.40 dBm		
M4		1	2.3857 GHz	-48.42 dBm		

Band Edge NVNT n20 2462MHz Ant0 Ref

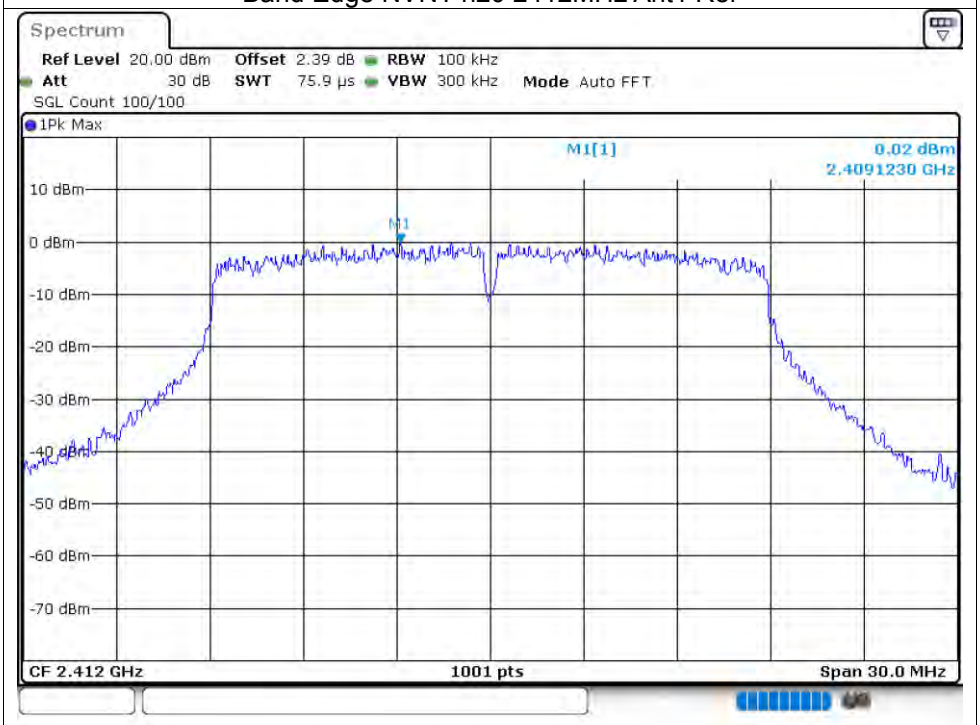


Band Edge NVNT n20 2462MHz Ant0 Emission

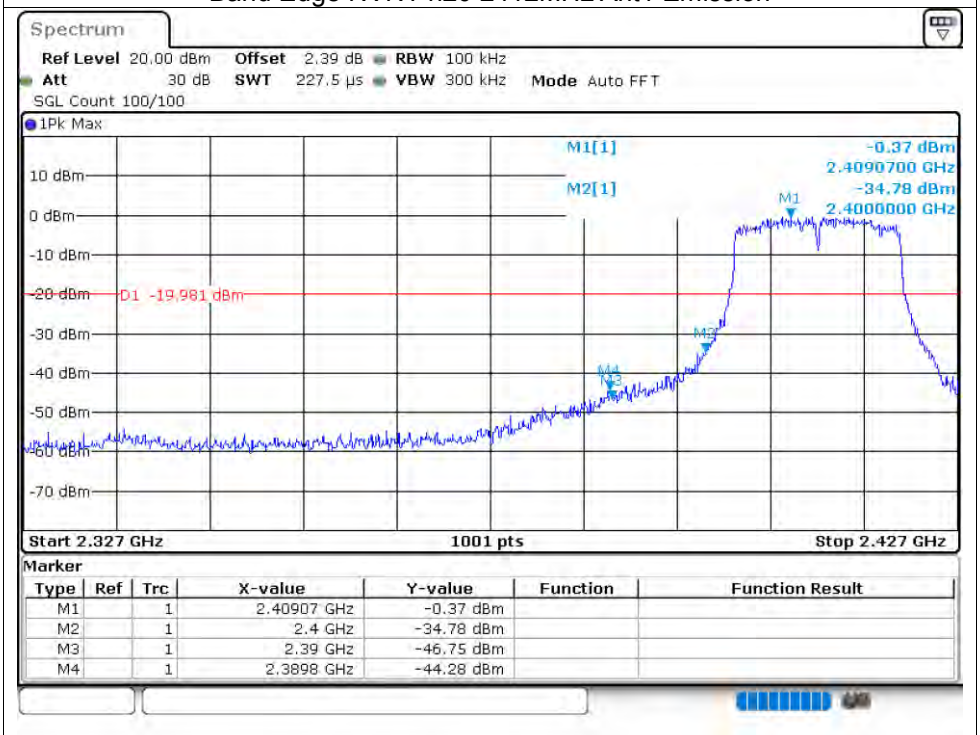


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46134 GHz	-0.87 dBm		
M2		1	2.4835 GHz	-52.33 dBm		
M3		1	2.5 GHz	-57.99 dBm		
M4		1	2.4841 GHz	-50.49 dBm		

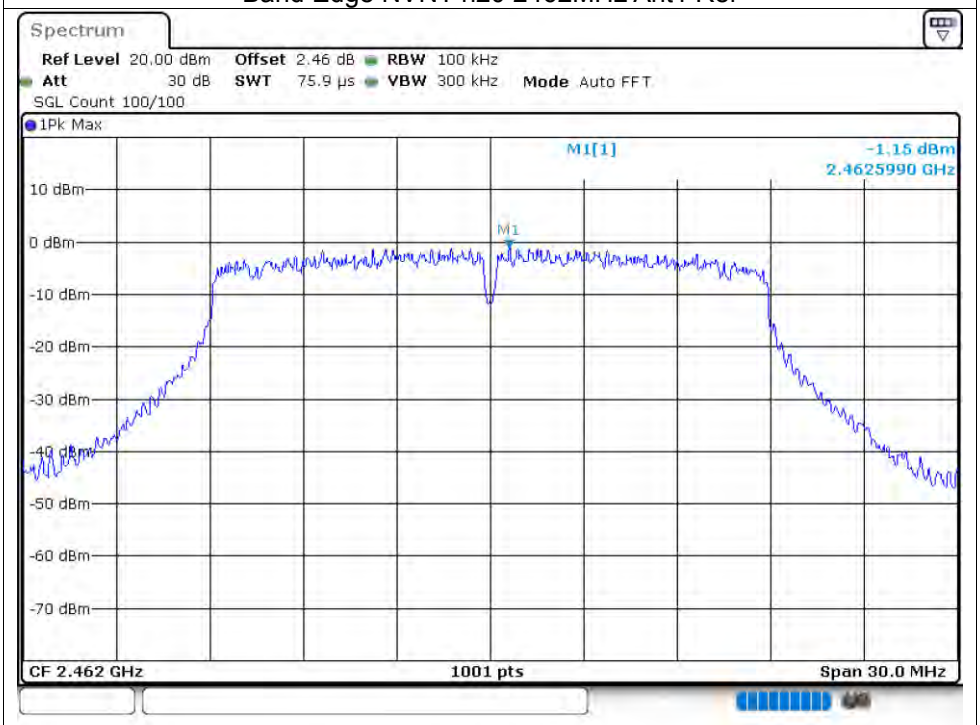
Band Edge NVNT n20 2412MHz Ant1 Ref



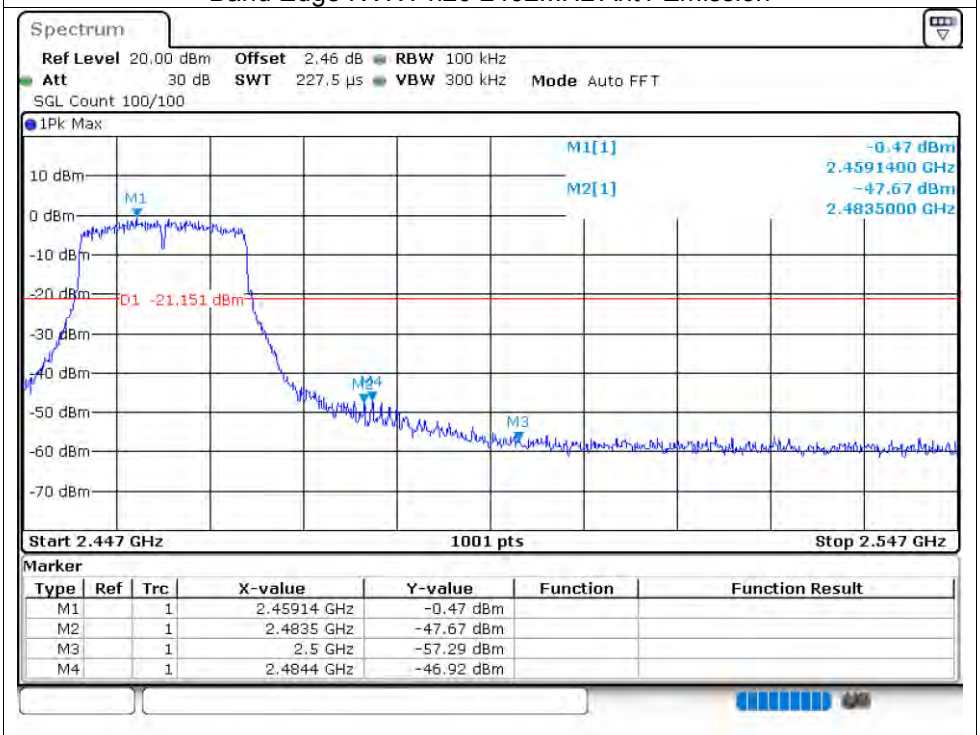
Band Edge NVNT n20 2412MHz Ant1 Emission



Band Edge NVNT n20 2462MHz Ant1 Ref

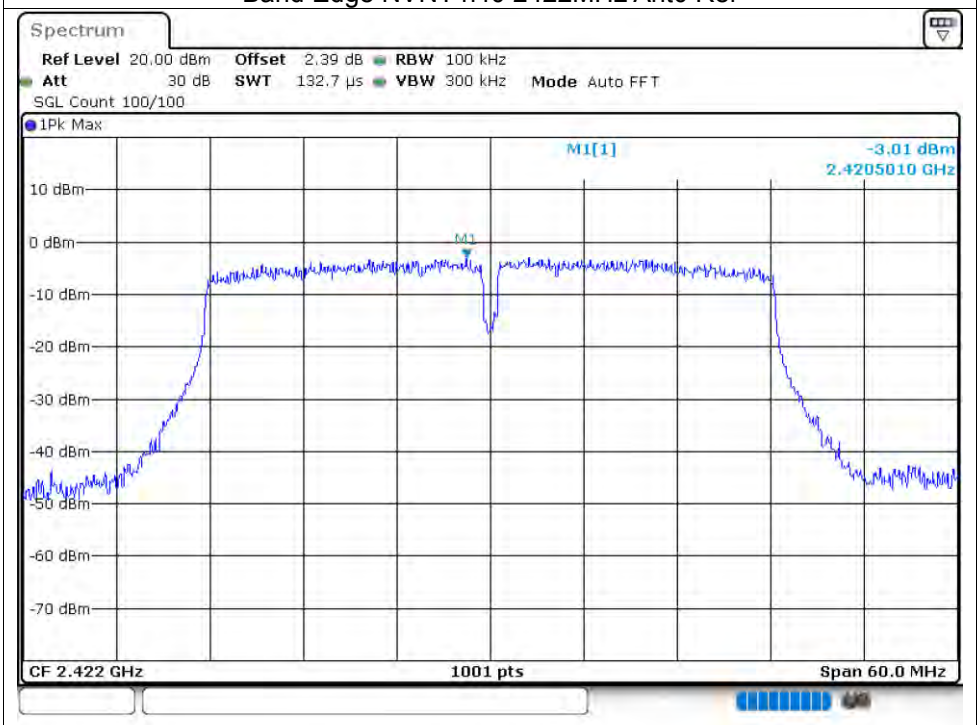


Band Edge NVNT n20 2462MHz Ant1 Emission

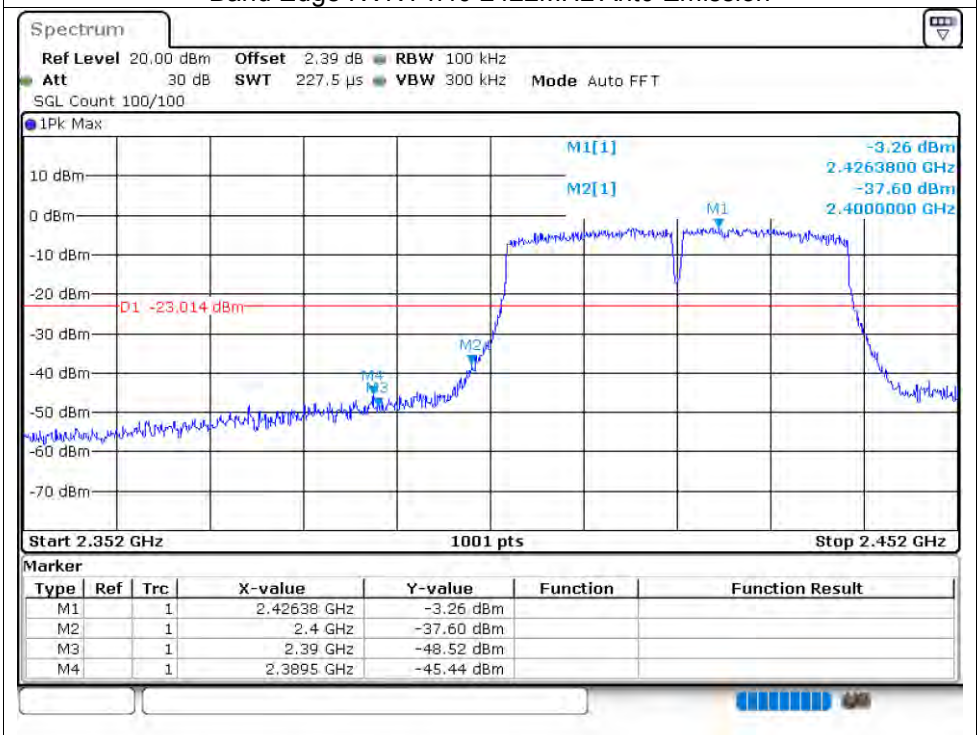


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45914 GHz	-0.47 dBm		
M2		1	2.4835 GHz	-47.67 dBm		
M3		1	2.5 GHz	-57.29 dBm		
M4		1	2.4844 GHz	-46.92 dBm		

Band Edge NVNT n40 2422MHz Ant0 Ref

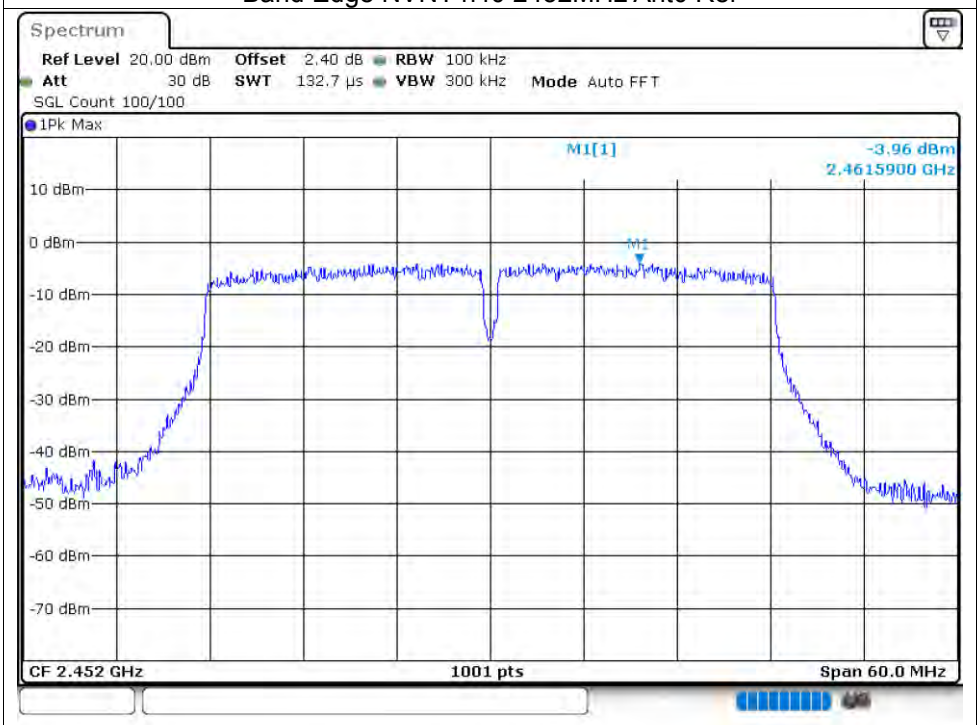


Band Edge NVNT n40 2422MHz Ant0 Emission

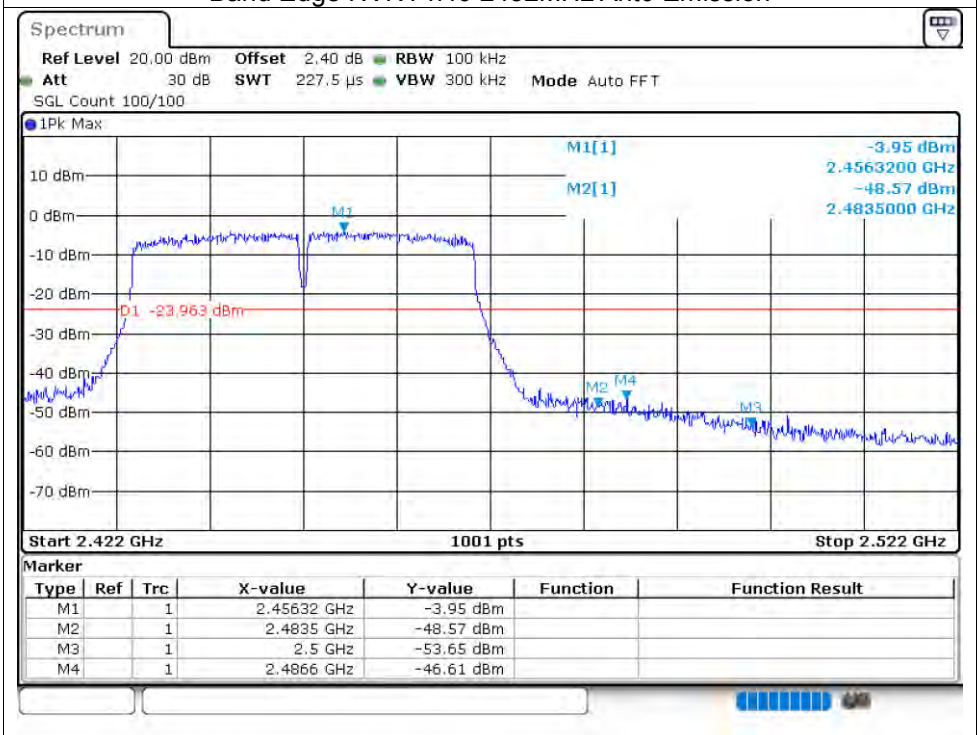


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42638 GHz	-3.26 dBm		
M2		1	2.4 GHz	-37.60 dBm		
M3		1	2.39 GHz	-48.52 dBm		
M4		1	2.3895 GHz	-45.44 dBm		

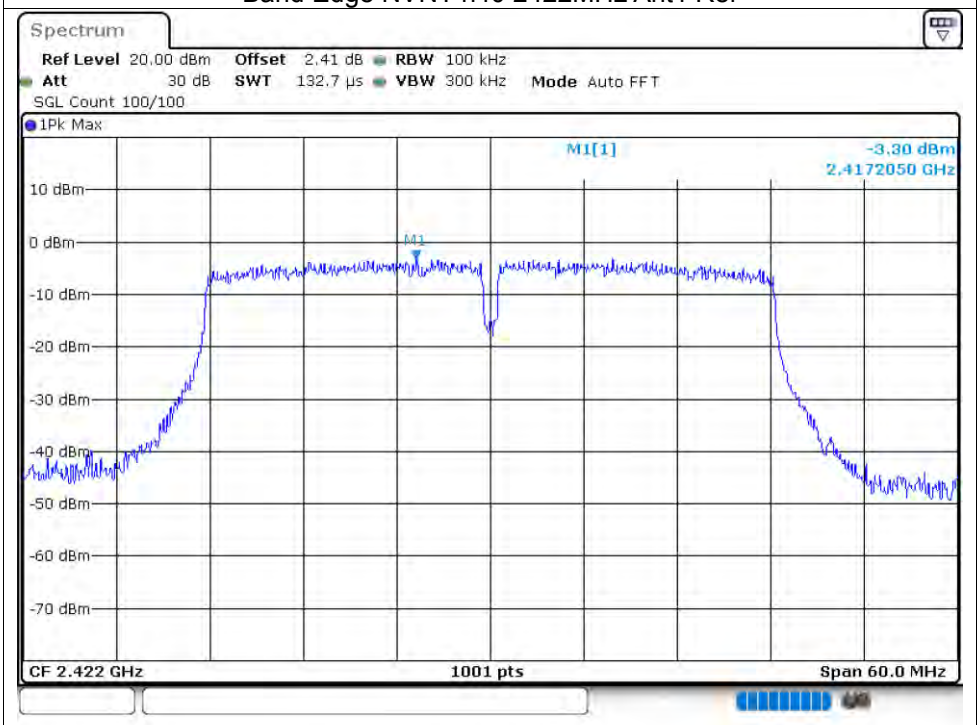
Band Edge NVNT n40 2452MHz Ant0 Ref



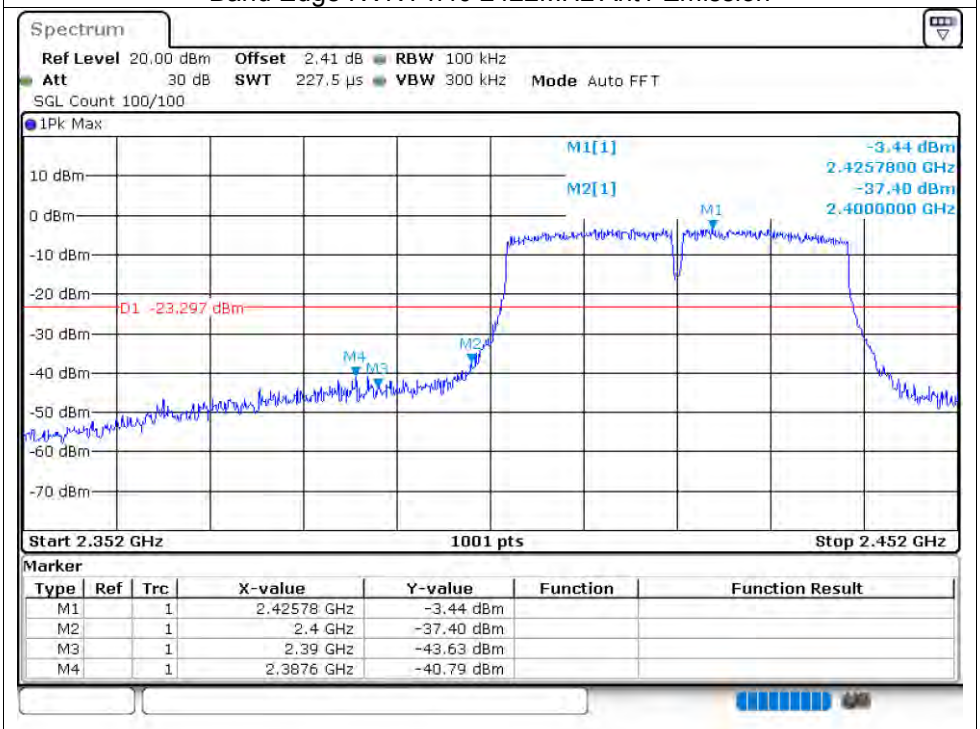
Band Edge NVNT n40 2452MHz Ant0 Emission



Band Edge NVNT n40 2422MHz Ant1 Ref

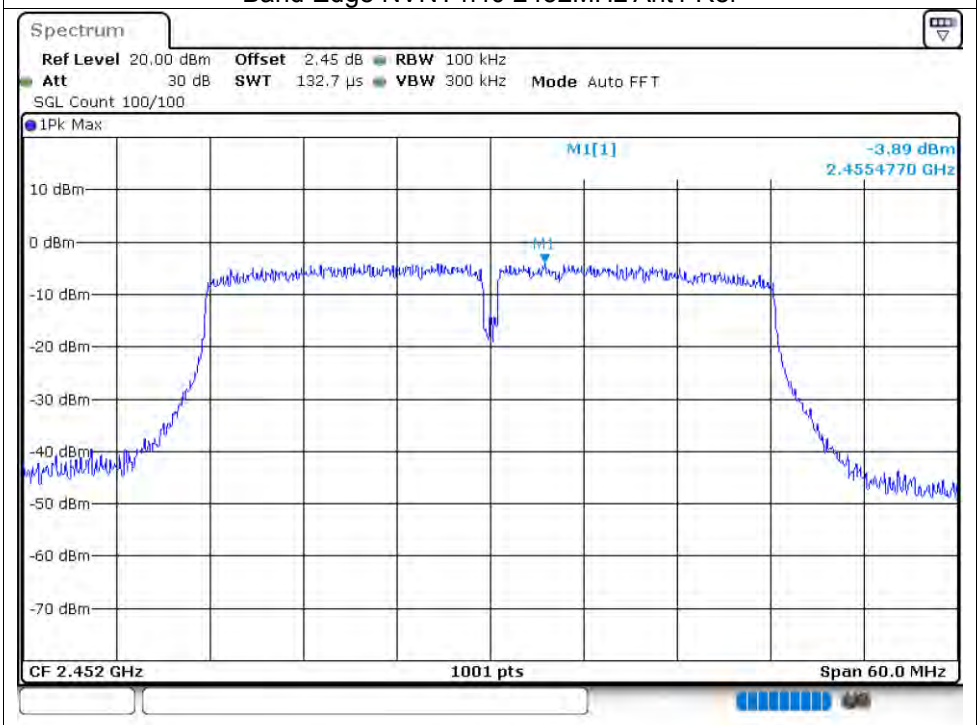


Band Edge NVNT n40 2422MHz Ant1 Emission

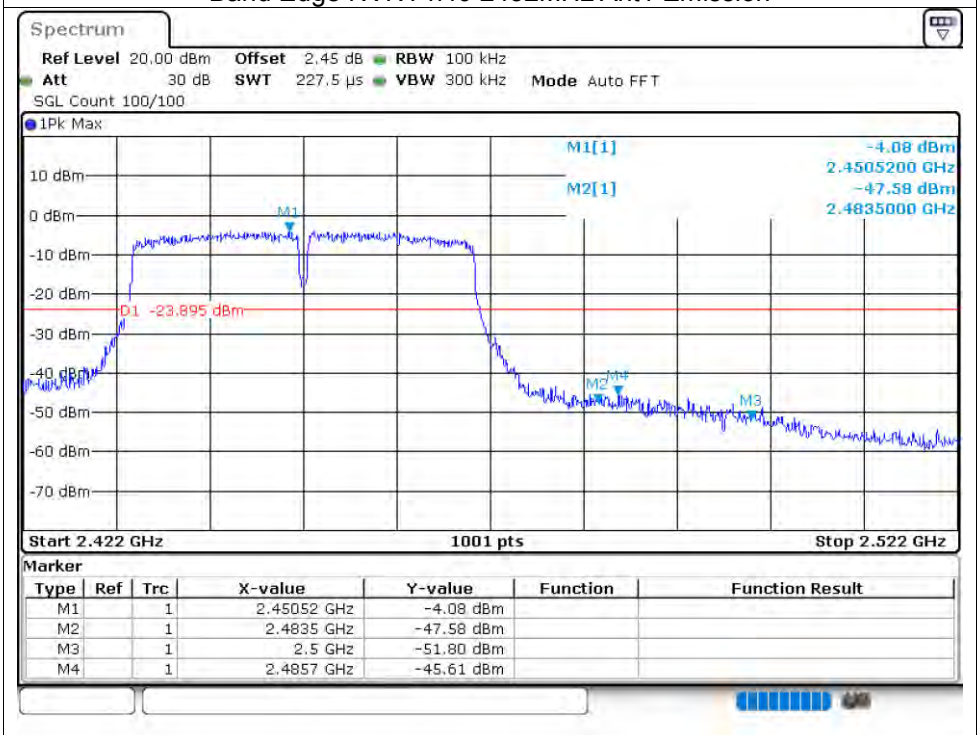


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.42578 GHz	-3.44 dBm		
M2		1	2.4 GHz	-37.40 dBm		
M3		1	2.39 GHz	-43.63 dBm		
M4		1	2.3876 GHz	-40.79 dBm		

Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

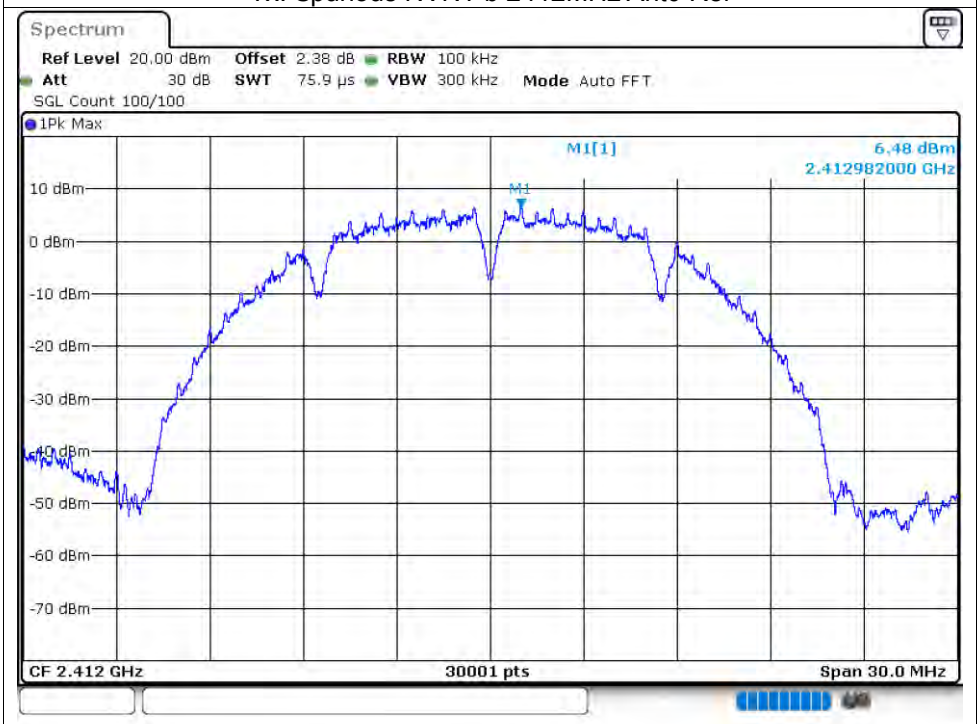


8.1.7 Conducted RF Spurious Emission

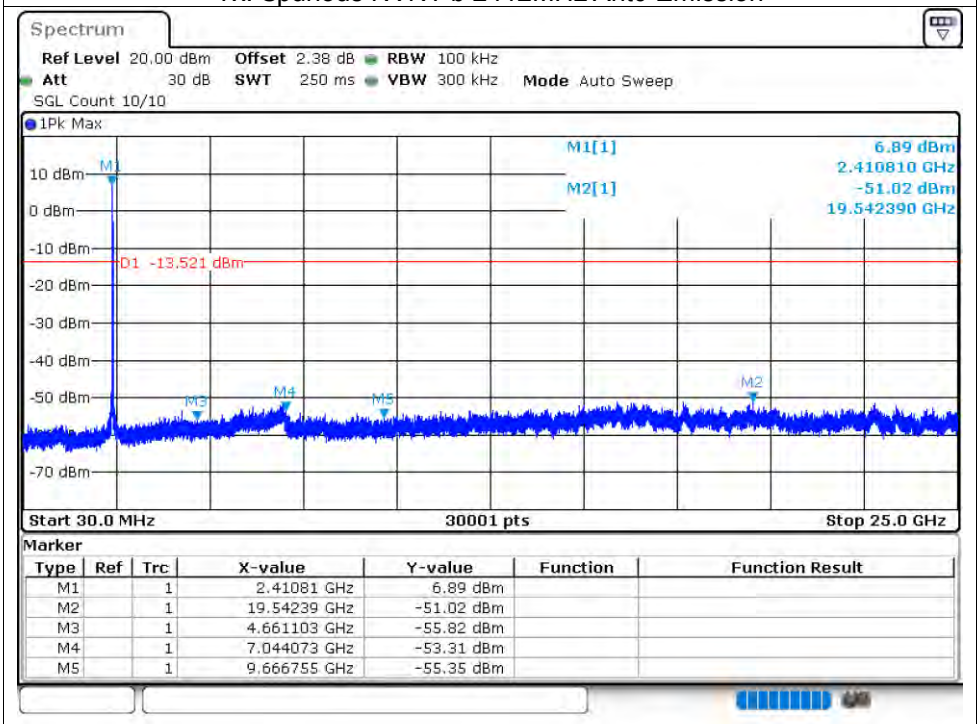
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant0	-57.49	-20	Pass
NVNT	b	2437	Ant0	-57.16	-20	Pass
NVNT	b	2462	Ant0	-56.07	-20	Pass
NVNT	b	2412	Ant1	-57.39	-20	Pass
NVNT	b	2437	Ant1	-56.62	-20	Pass
NVNT	b	2462	Ant1	-56.41	-20	Pass
NVNT	g	2412	Ant0	-55.42	-20	Pass
NVNT	g	2437	Ant0	-54.76	-20	Pass
NVNT	g	2462	Ant0	-54.03	-20	Pass
NVNT	g	2412	Ant1	-50.78	-20	Pass
NVNT	g	2437	Ant1	-50.43	-20	Pass
NVNT	g	2462	Ant1	-50.11	-20	Pass
NVNT	n20	2412	Ant0	-51.48	-20	Pass
NVNT	n20	2437	Ant0	-50.59	-20	Pass
NVNT	n20	2462	Ant0	-50.53	-20	Pass
NVNT	n20	2412	Ant1	-51.4	-20	Pass
NVNT	n20	2437	Ant1	-49.92	-20	Pass
NVNT	n20	2462	Ant1	-49.24	-20	Pass
NVNT	n40	2422	Ant0	-48.49	-20	Pass
NVNT	n40	2437	Ant0	-47.55	-20	Pass
NVNT	n40	2452	Ant0	-47.12	-20	Pass
NVNT	n40	2422	Ant1	-47.42	-20	Pass
NVNT	n40	2437	Ant1	-47.64	-20	Pass
NVNT	n40	2452	Ant1	-46.46	-20	Pass

Test Graphs

Tx. Spurious NVNT b 2412MHz Ant0 Ref



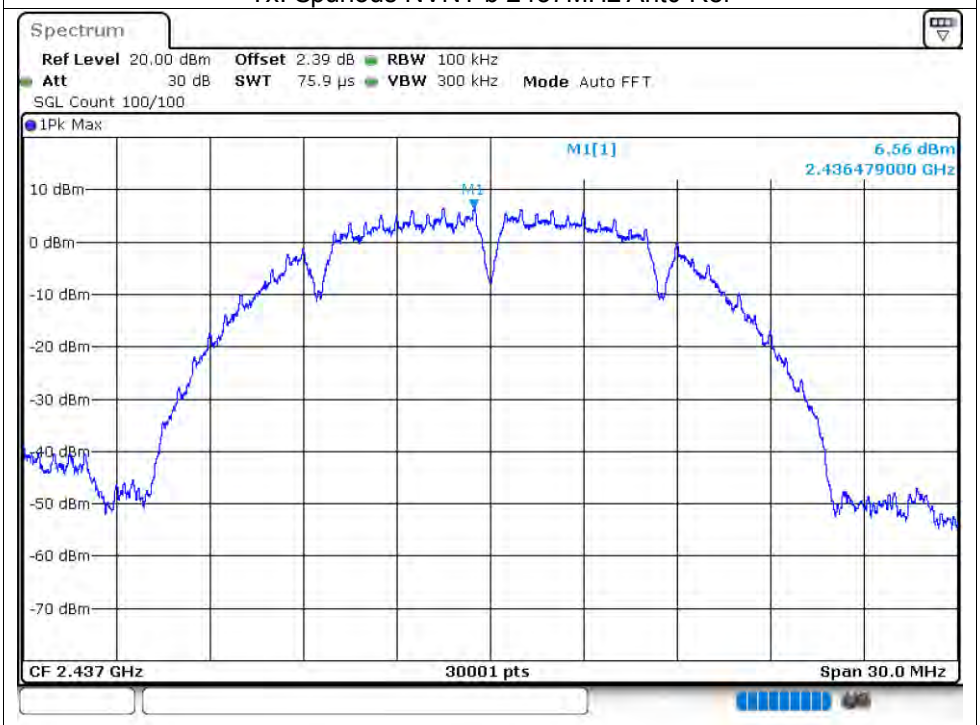
Tx. Spurious NVNT b 2412MHz Ant0 Emission



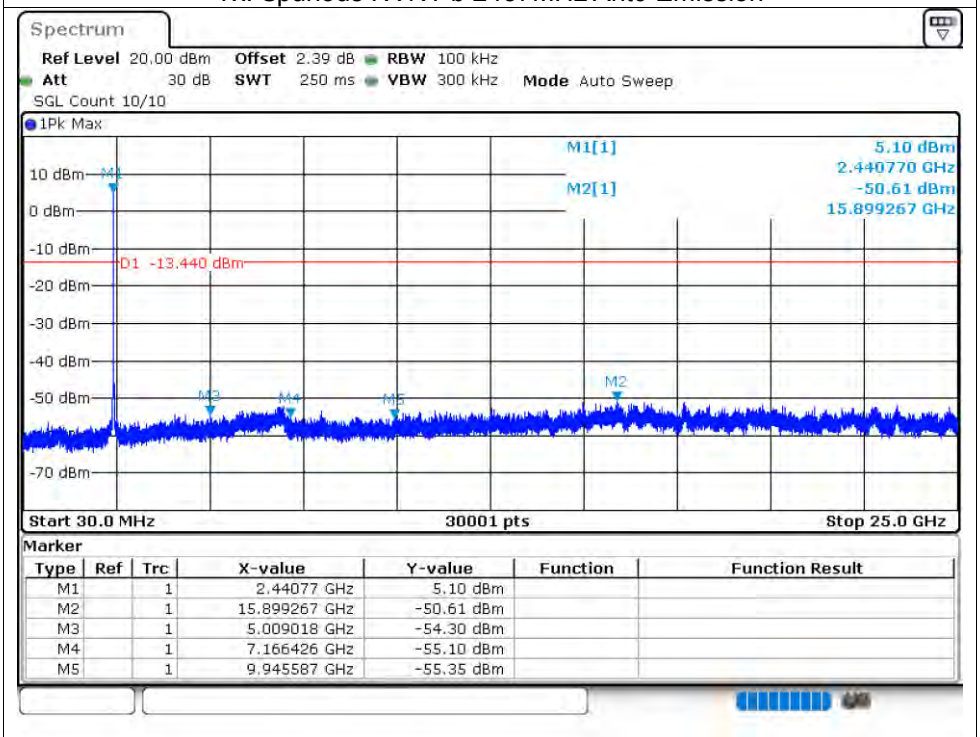
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41081 GHz	6.89 dBm		
M2		1	19.54239 GHz	-51.02 dBm		
M3		1	4.661103 GHz	-55.82 dBm		
M4		1	7.044073 GHz	-53.31 dBm		
M5		1	9.666755 GHz	-55.35 dBm		

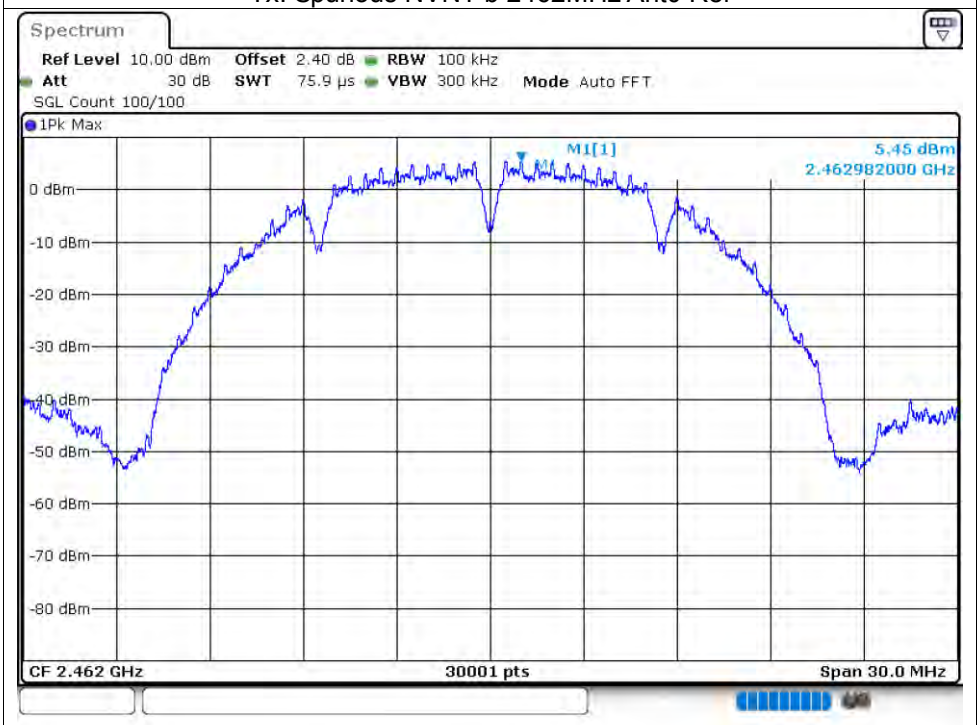
Tx. Spurious NVNT b 2437MHz Ant0 Ref



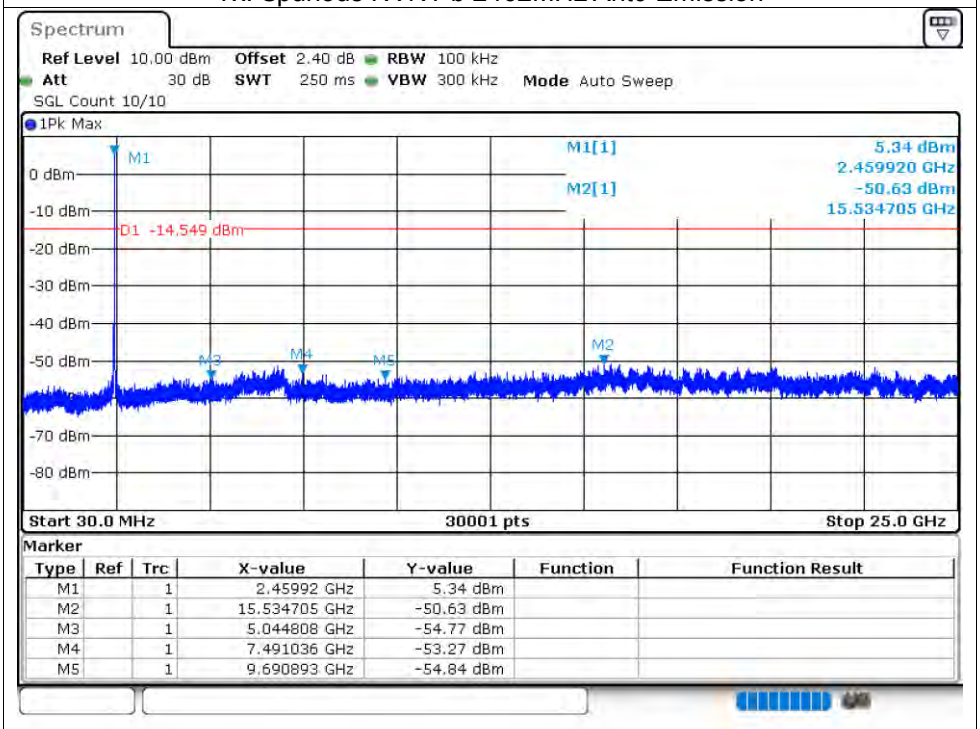
Tx. Spurious NVNT b 2437MHz Ant0 Emission



Tx. Spurious NVNT b 2462MHz Ant0 Ref



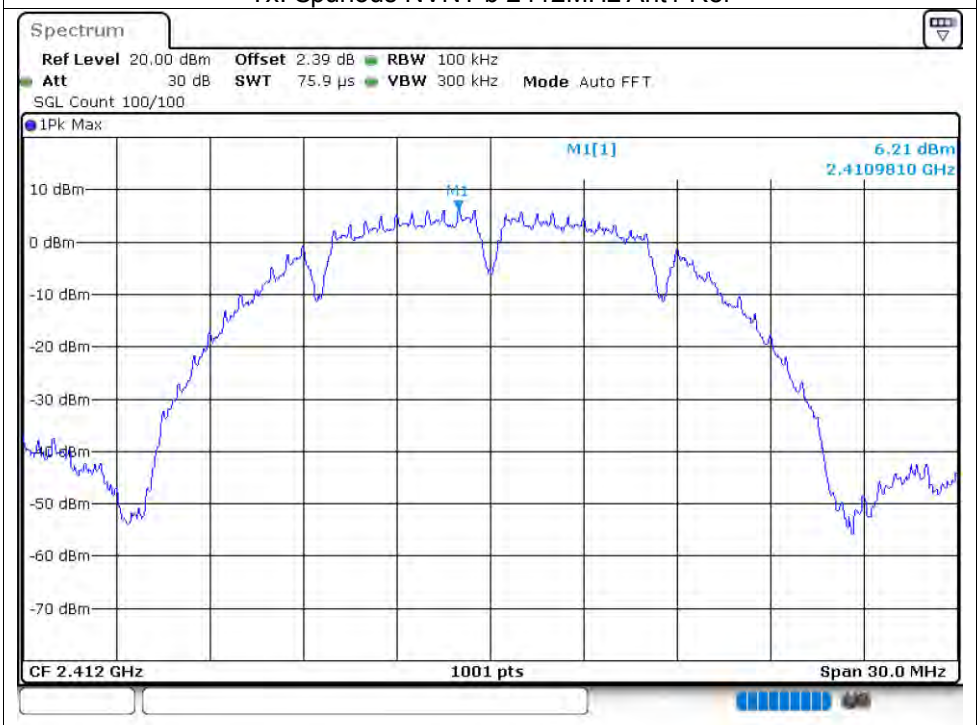
Tx. Spurious NVNT b 2462MHz Ant0 Emission



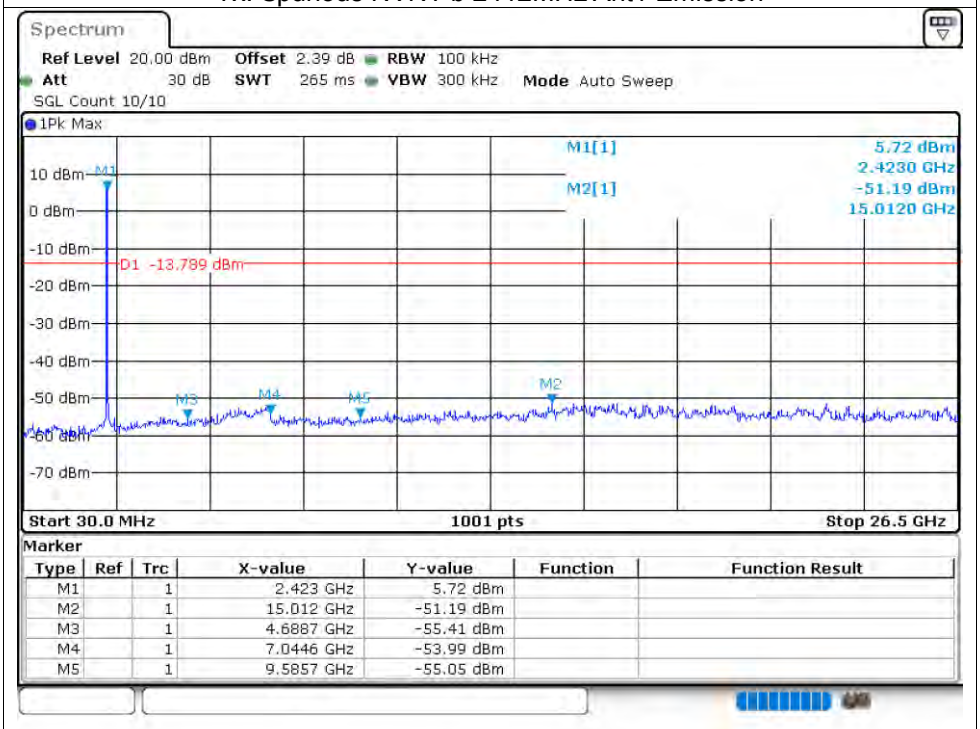
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45992 GHz	5.34 dBm		
M2		1	15.534705 GHz	-50.63 dBm		
M3		1	5.044808 GHz	-54.77 dBm		
M4		1	7.491036 GHz	-53.27 dBm		
M5		1	9.690893 GHz	-54.84 dBm		

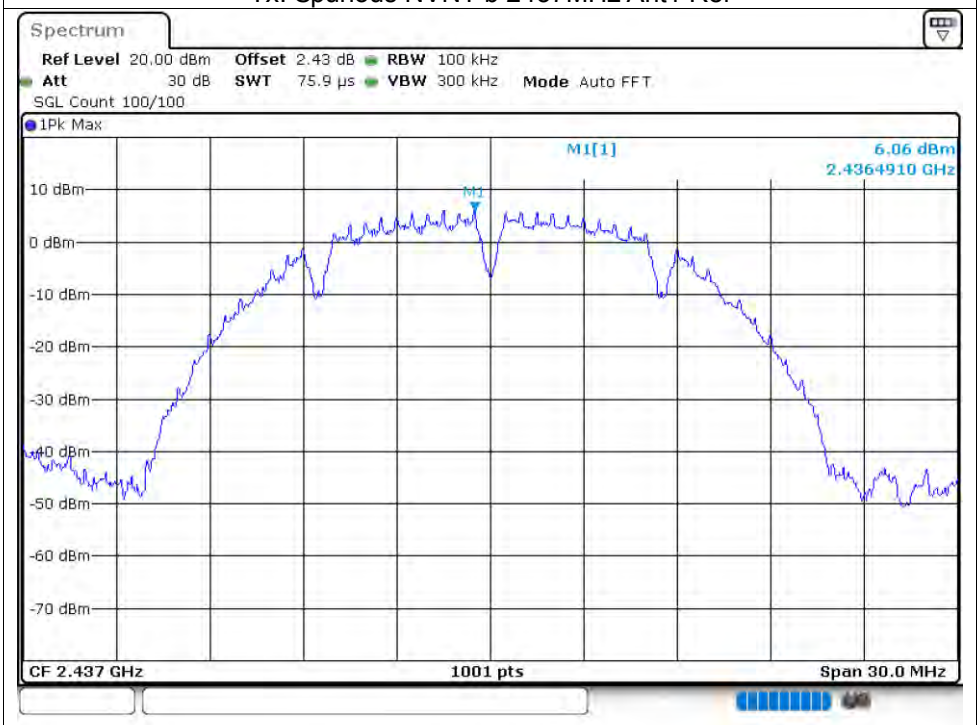
Tx. Spurious NVNT b 2412MHz Ant1 Ref



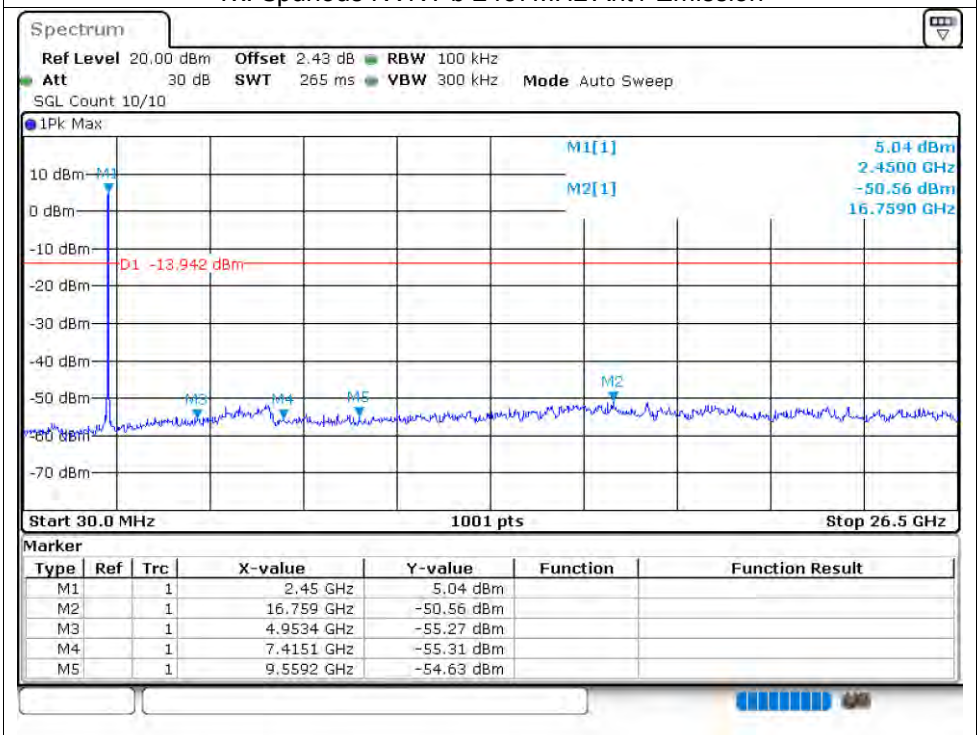
Tx. Spurious NVNT b 2412MHz Ant1 Emission



Tx. Spurious NVNT b 2437MHz Ant1 Ref

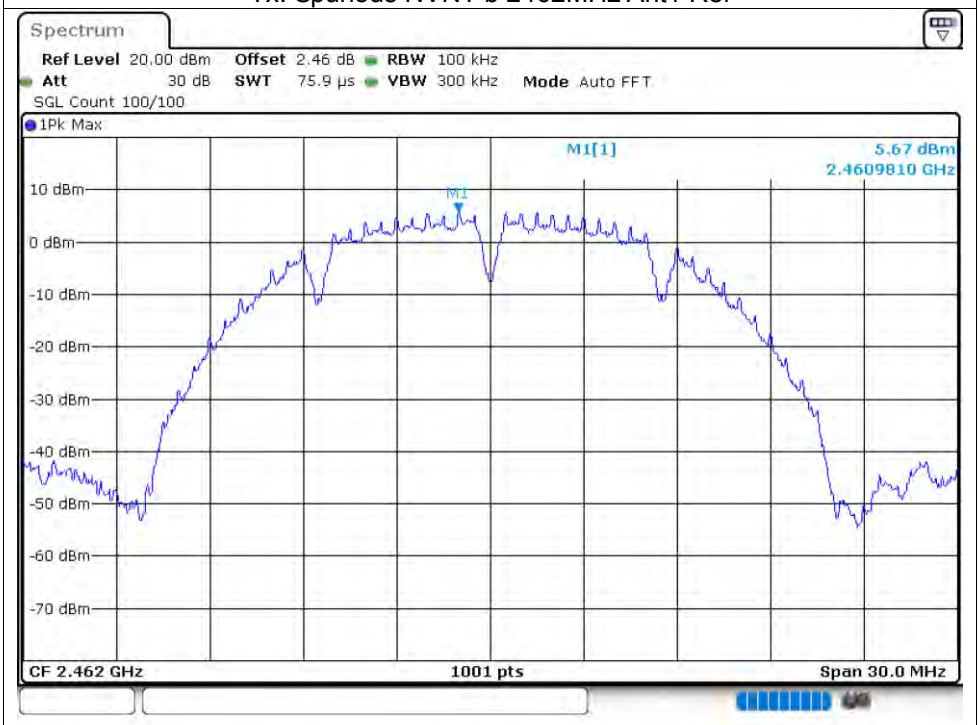


Tx. Spurious NVNT b 2437MHz Ant1 Emission

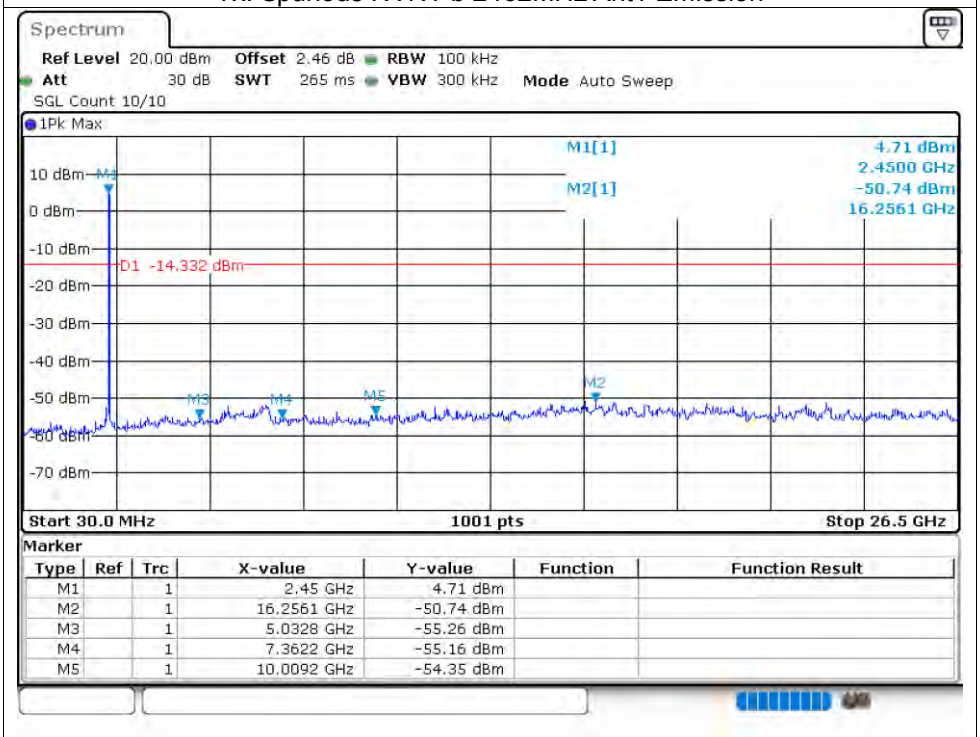


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	5.04 dBm		
M2		1	16.759 GHz	-50.56 dBm		
M3		1	4.9534 GHz	-55.27 dBm		
M4		1	7.4151 GHz	-55.31 dBm		
M5		1	9.5592 GHz	-54.63 dBm		

Tx. Spurious NVNT b 2462MHz Ant1 Ref



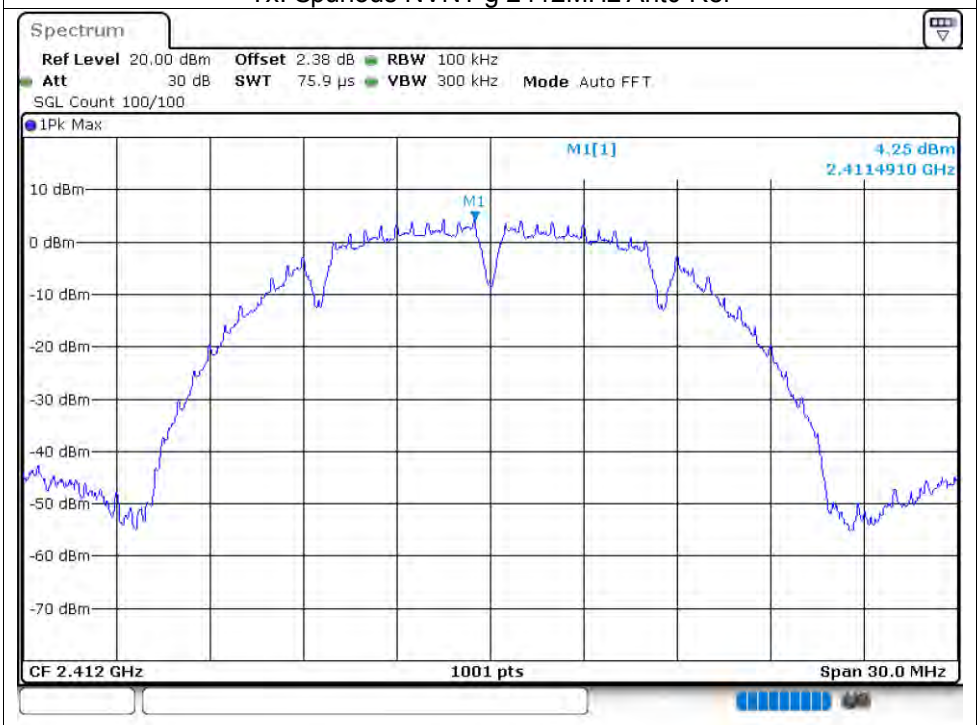
Tx. Spurious NVNT b 2462MHz Ant1 Emission



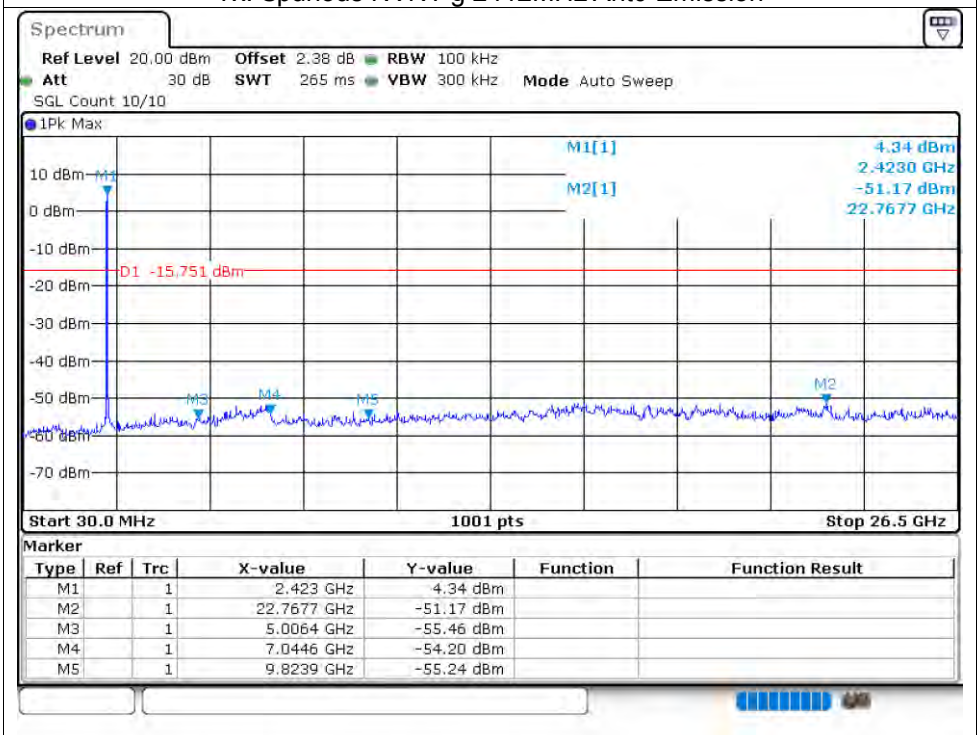
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	4.71 dBm		
M2		1	16.2561 GHz	-50.74 dBm		
M3		1	5.0328 GHz	-55.26 dBm		
M4		1	7.3622 GHz	-55.16 dBm		
M5		1	10.0092 GHz	-54.35 dBm		

Tx. Spurious NVNT g 2412MHz Ant0 Ref



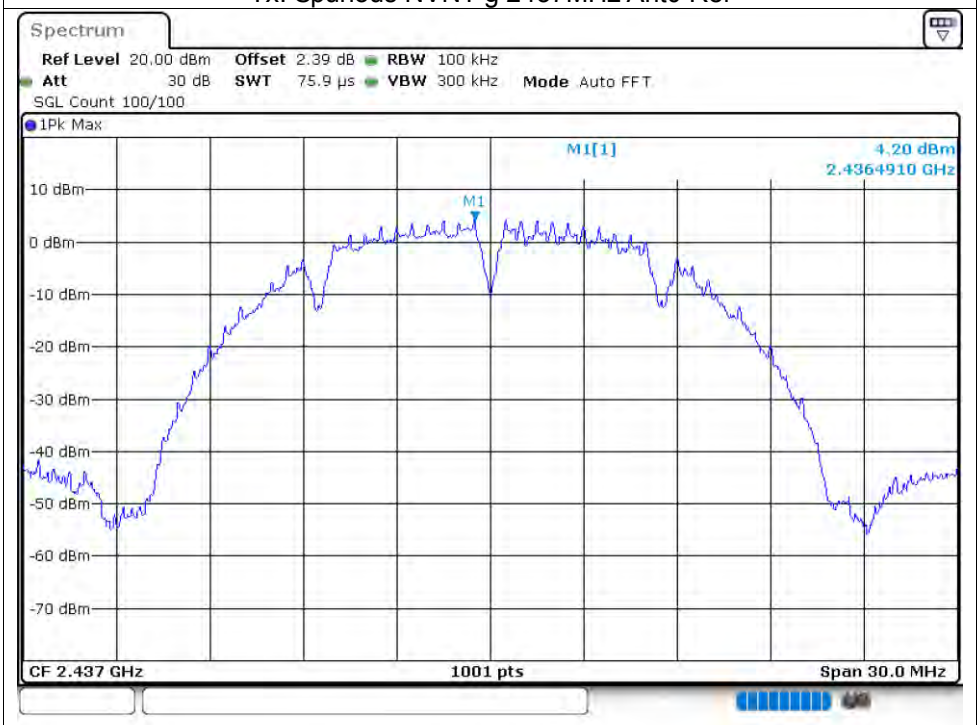
Tx. Spurious NVNT g 2412MHz Ant0 Emission



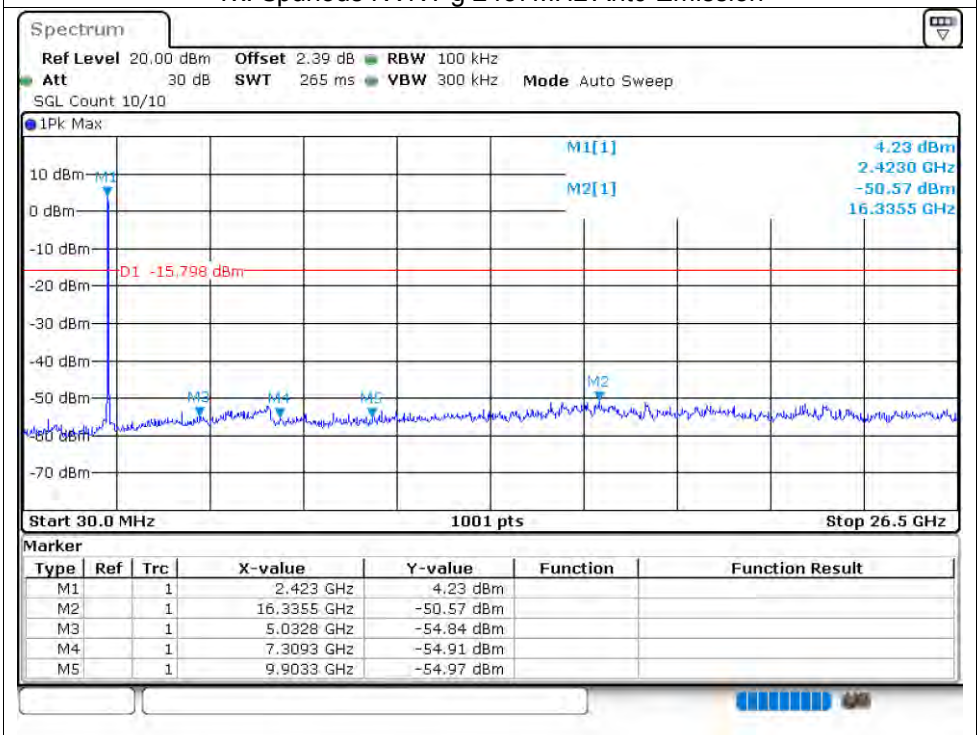
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	4.34 dBm		
M2		1	22.7677 GHz	-51.17 dBm		
M3		1	5.0064 GHz	-55.46 dBm		
M4		1	7.0446 GHz	-54.20 dBm		
M5		1	9.8239 GHz	-55.24 dBm		

Tx. Spurious NVNT g 2437MHz Ant0 Ref

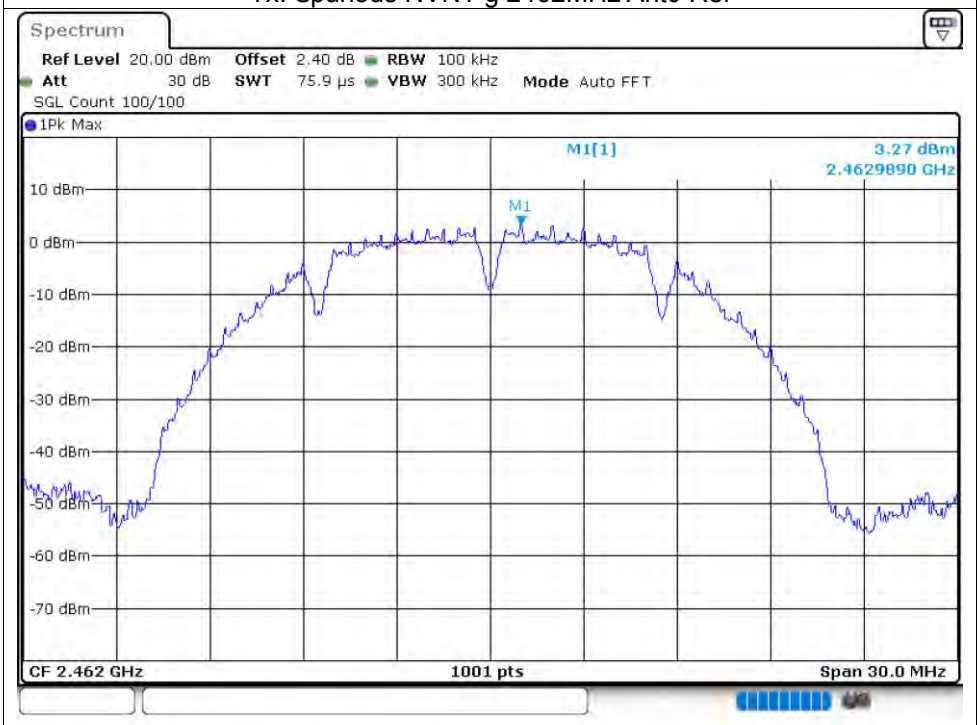


Tx. Spurious NVNT g 2437MHz Ant0 Emission

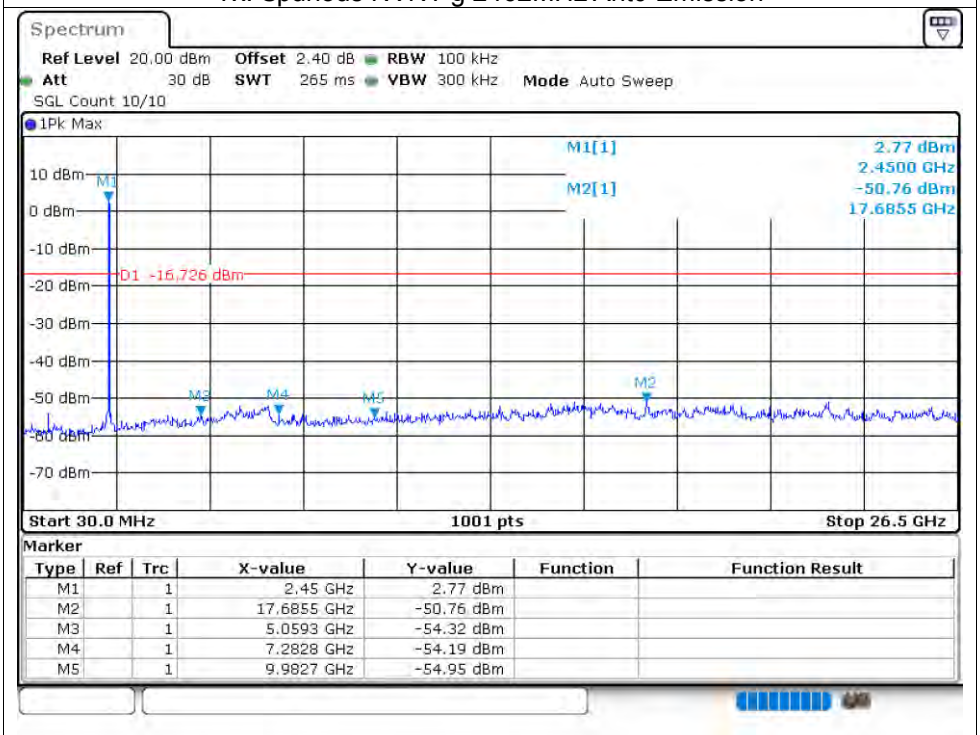


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	4.23 dBm		
M2		1	16.3355 GHz	-50.57 dBm		
M3		1	5.0328 GHz	-54.84 dBm		
M4		1	7.3093 GHz	-54.91 dBm		
M5		1	9.9033 GHz	-54.97 dBm		

Tx. Spurious NVNT g 2462MHz Ant0 Ref



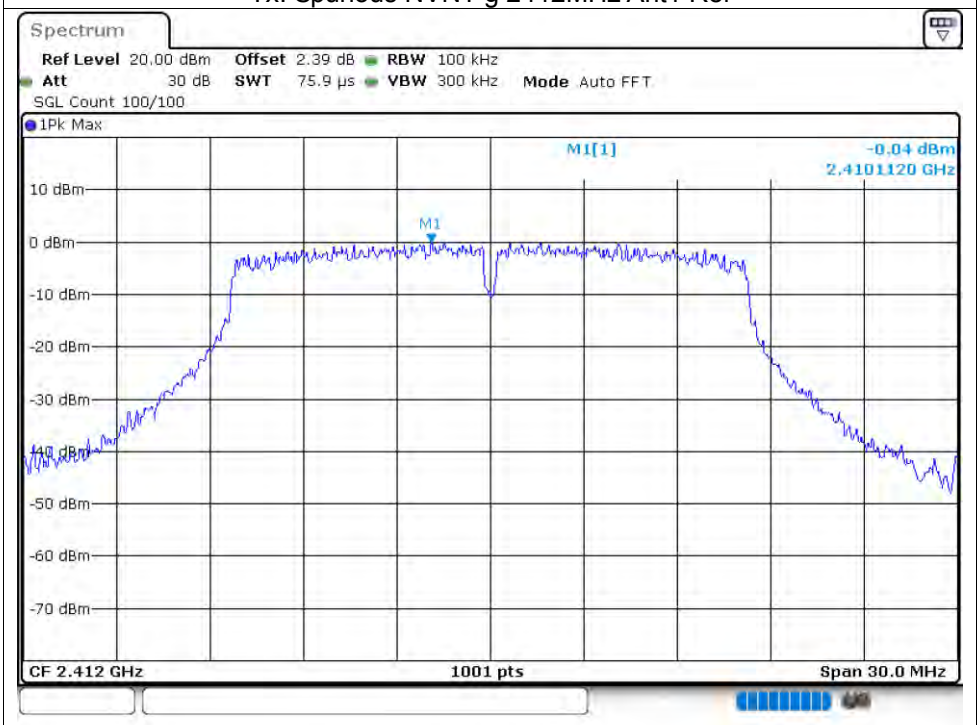
Tx. Spurious NVNT g 2462MHz Ant0 Emission



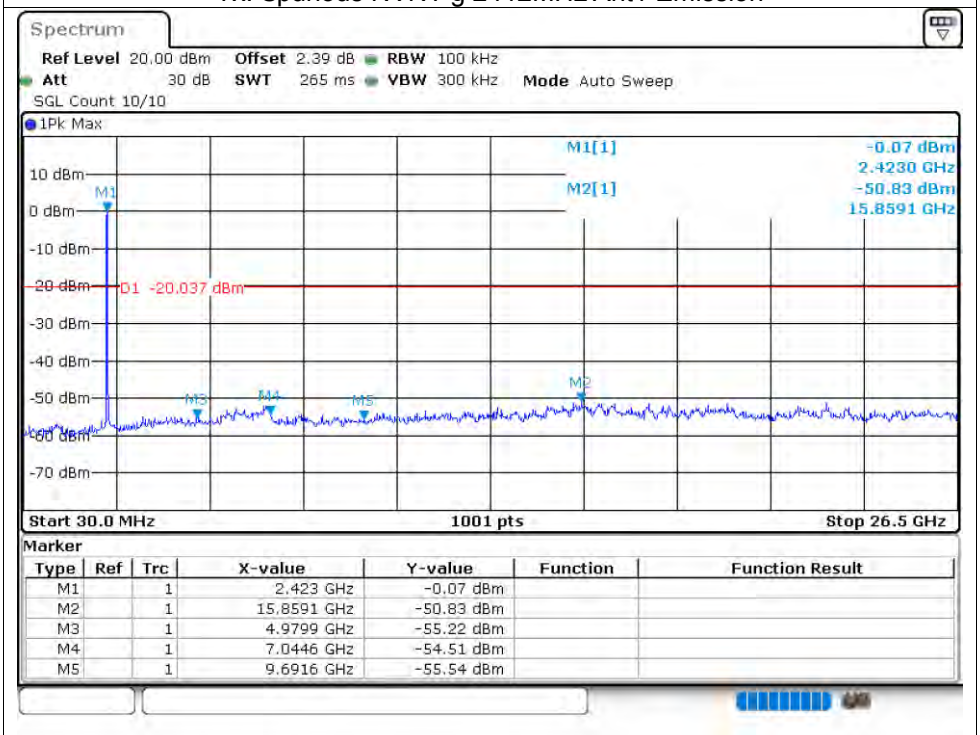
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	2.77 dBm		
M2		1	17.6855 GHz	-50.76 dBm		
M3		1	5.0593 GHz	-54.32 dBm		
M4		1	7.2828 GHz	-54.19 dBm		
M5		1	9.9827 GHz	-54.95 dBm		

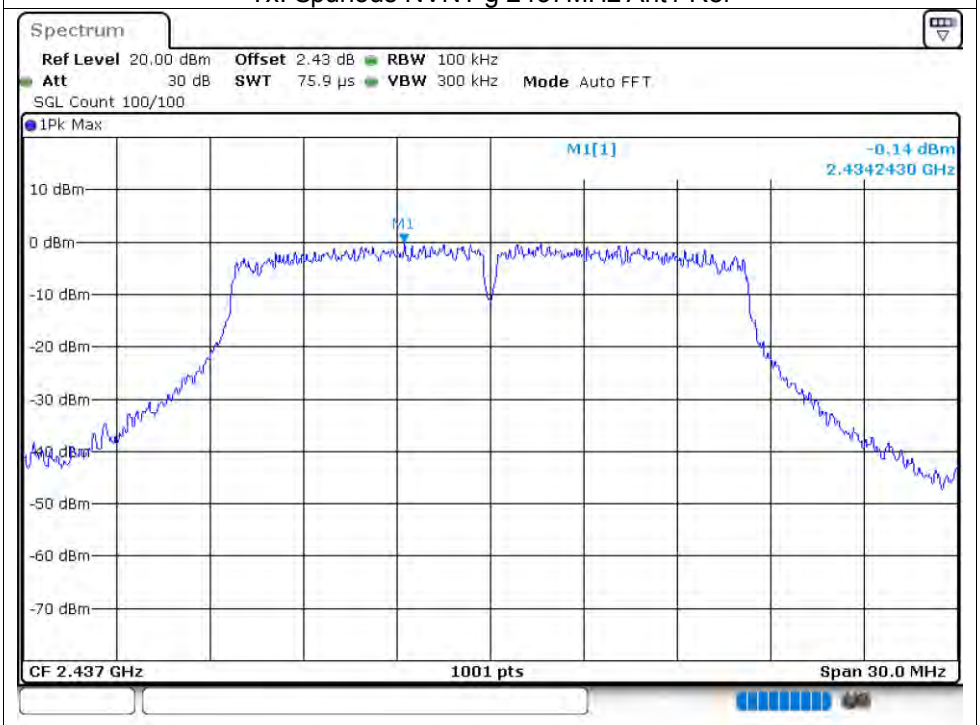
Tx. Spurious NVNT g 2412MHz Ant1 Ref



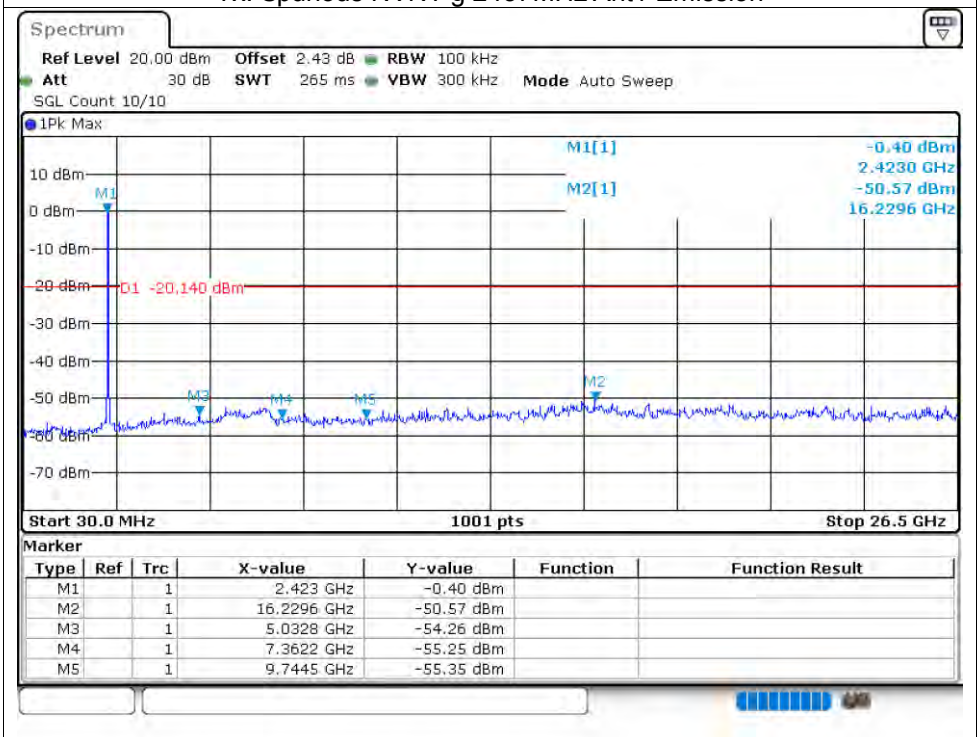
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



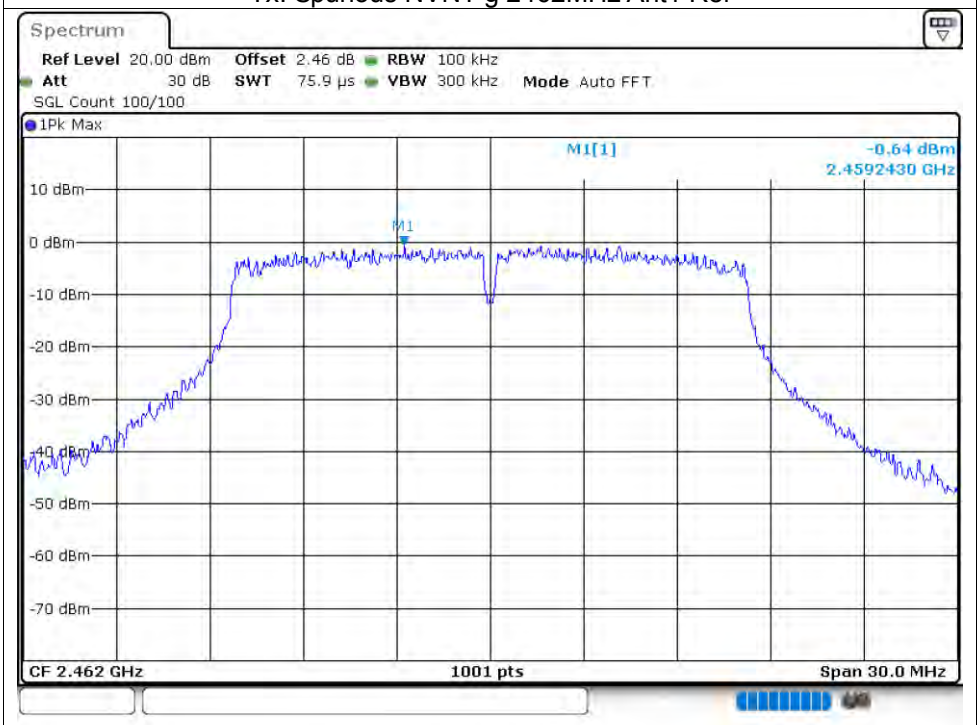
Tx. Spurious NVNT g 2437MHz Ant1 Emission



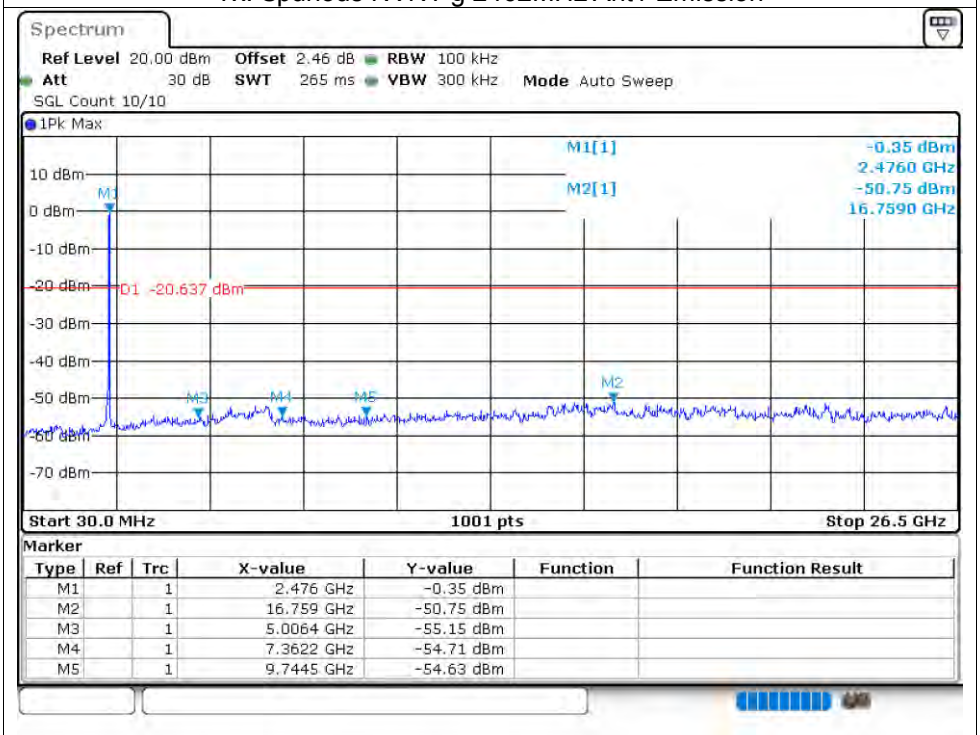
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-0.40 dBm		
M2		1	16.2296 GHz	-50.57 dBm		
M3		1	5.0328 GHz	-54.26 dBm		
M4		1	7.3622 GHz	-55.25 dBm		
M5		1	9.7445 GHz	-55.35 dBm		

Tx. Spurious NVNT g 2462MHz Ant1 Ref



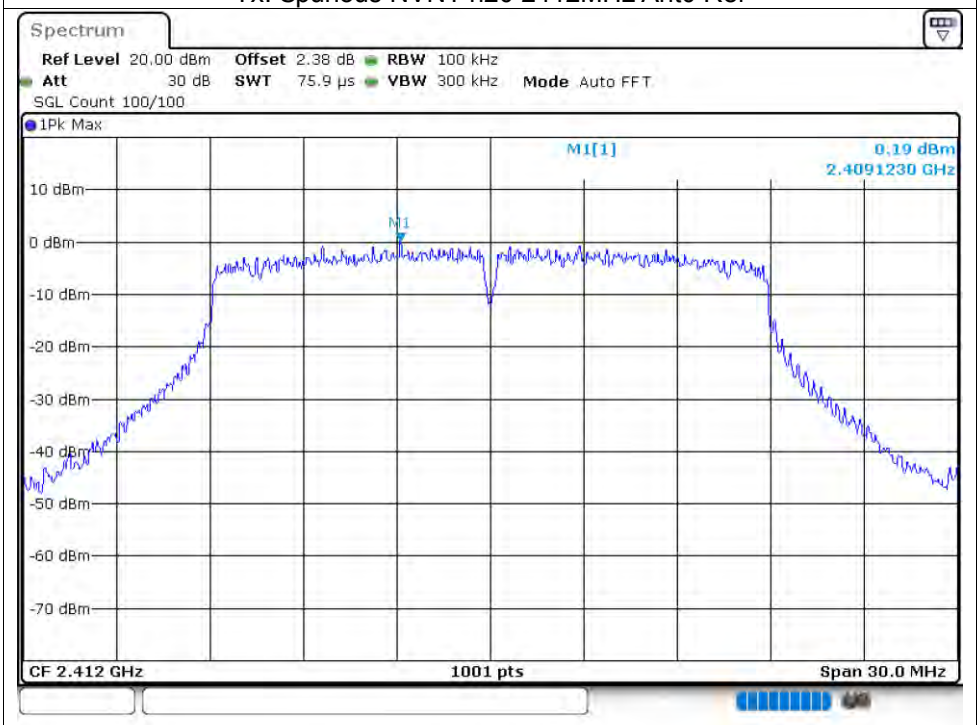
Tx. Spurious NVNT g 2462MHz Ant1 Emission



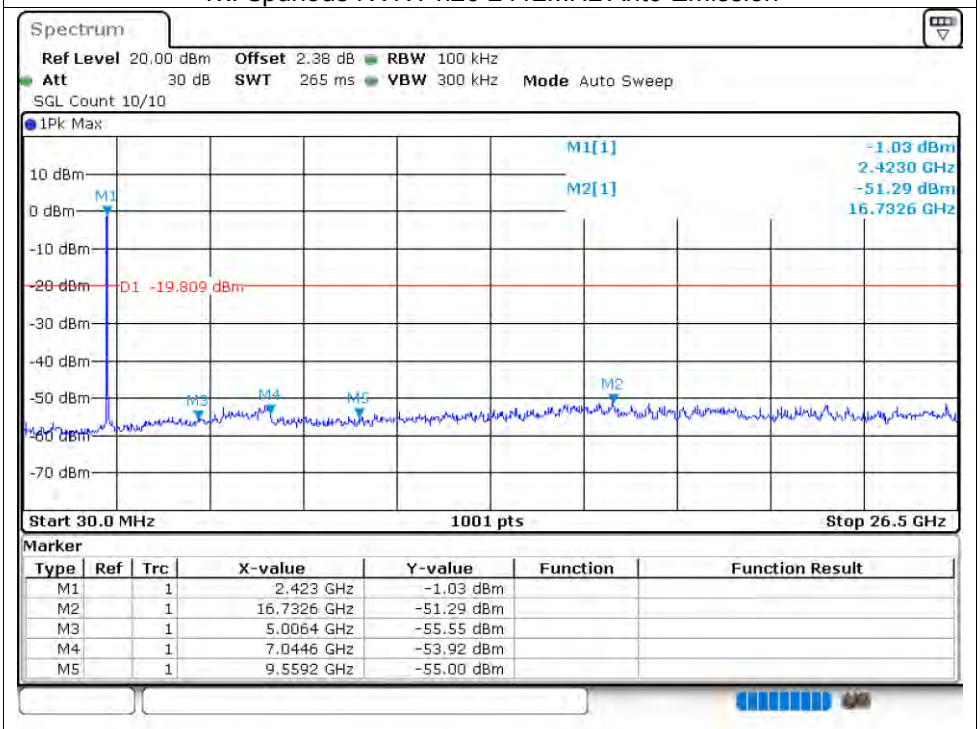
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.476 GHz	-0.35 dBm		
M2		1	16.759 GHz	-50.75 dBm		
M3		1	5.0064 GHz	-55.15 dBm		
M4		1	7.3622 GHz	-54.71 dBm		
M5		1	9.7445 GHz	-54.63 dBm		

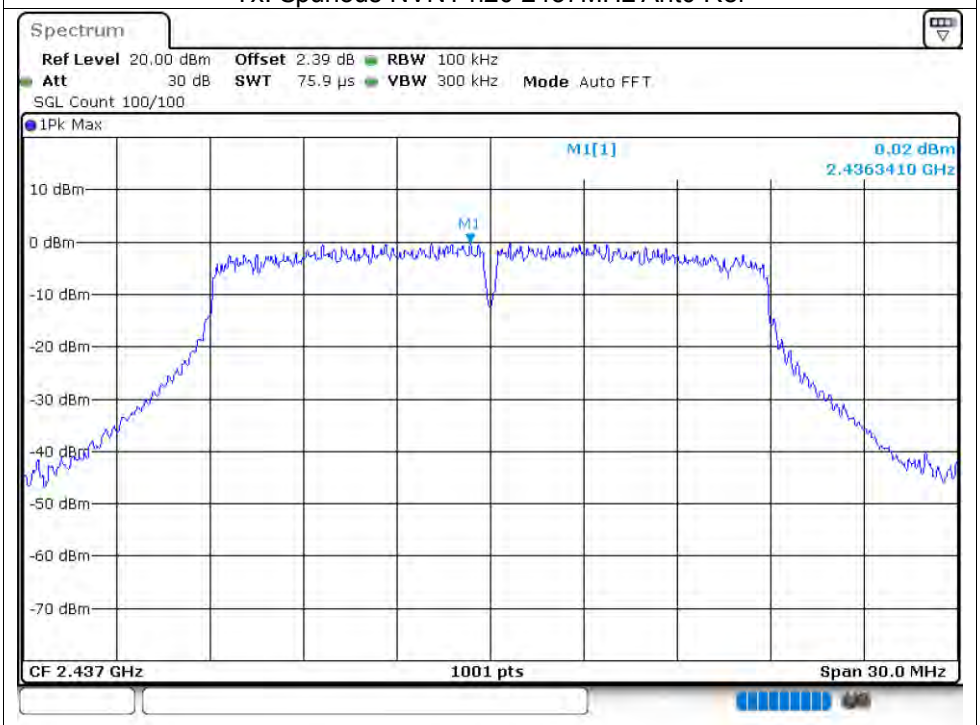
Tx. Spurious NVNT n20 2412MHz Ant0 Ref



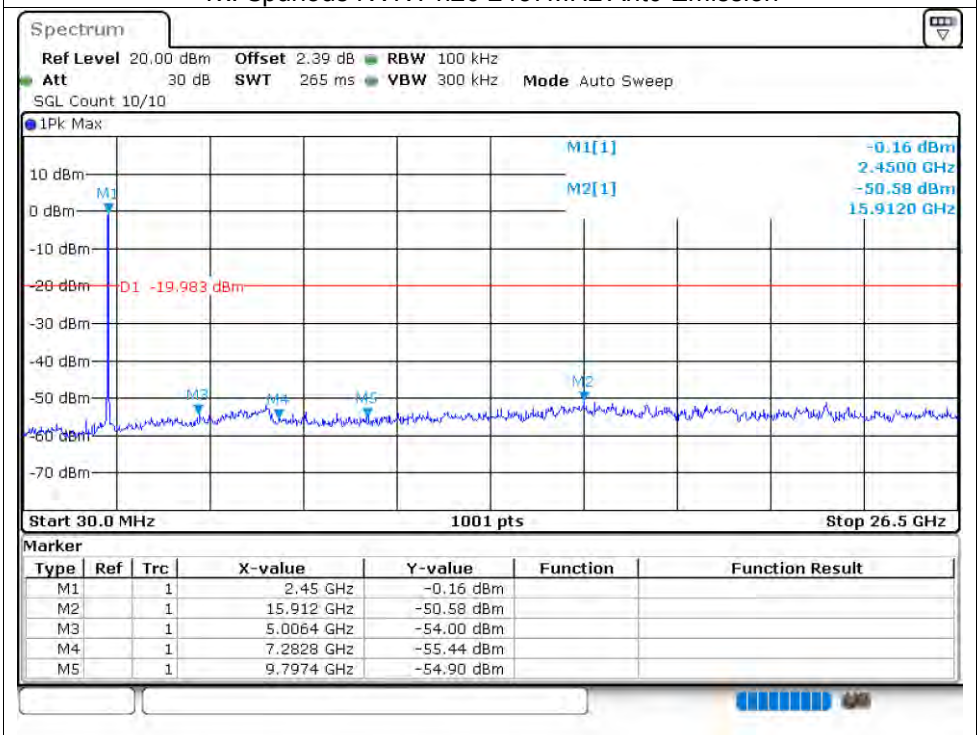
Tx. Spurious NVNT n20 2412MHz Ant0 Emission



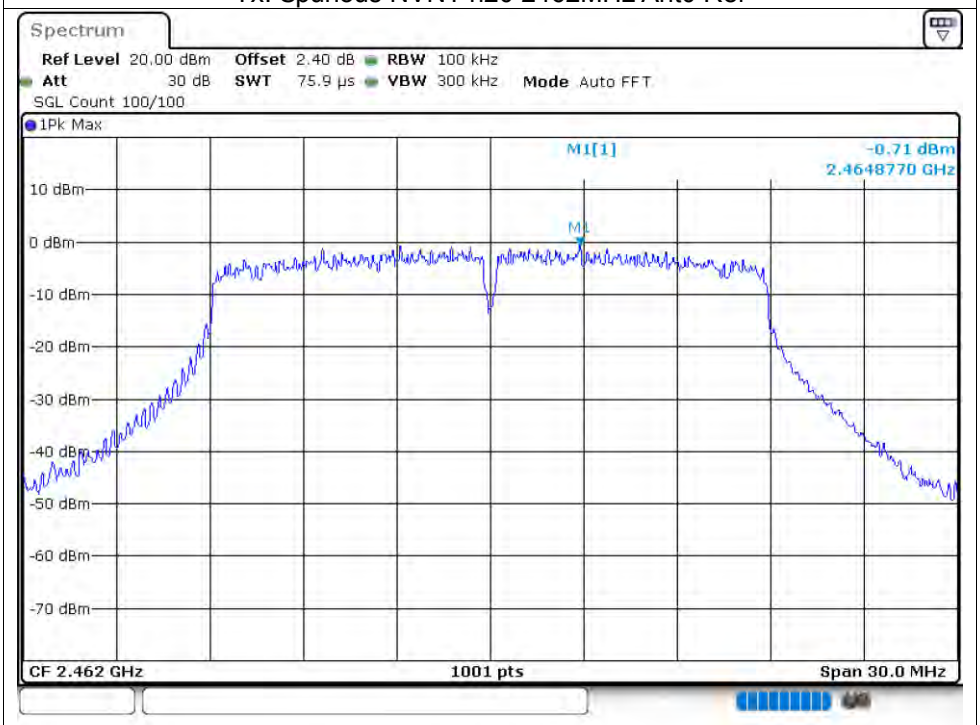
Tx. Spurious NVNT n20 2437MHz Ant0 Ref



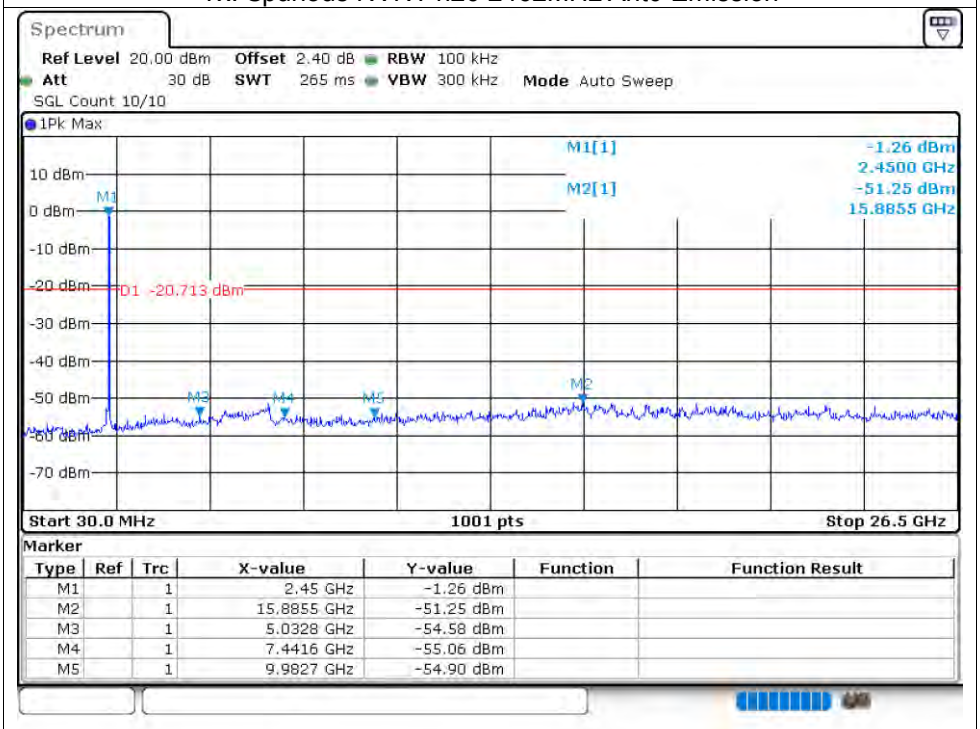
Tx. Spurious NVNT n20 2437MHz Ant0 Emission



Tx. Spurious NVNT n20 2462MHz Ant0 Ref



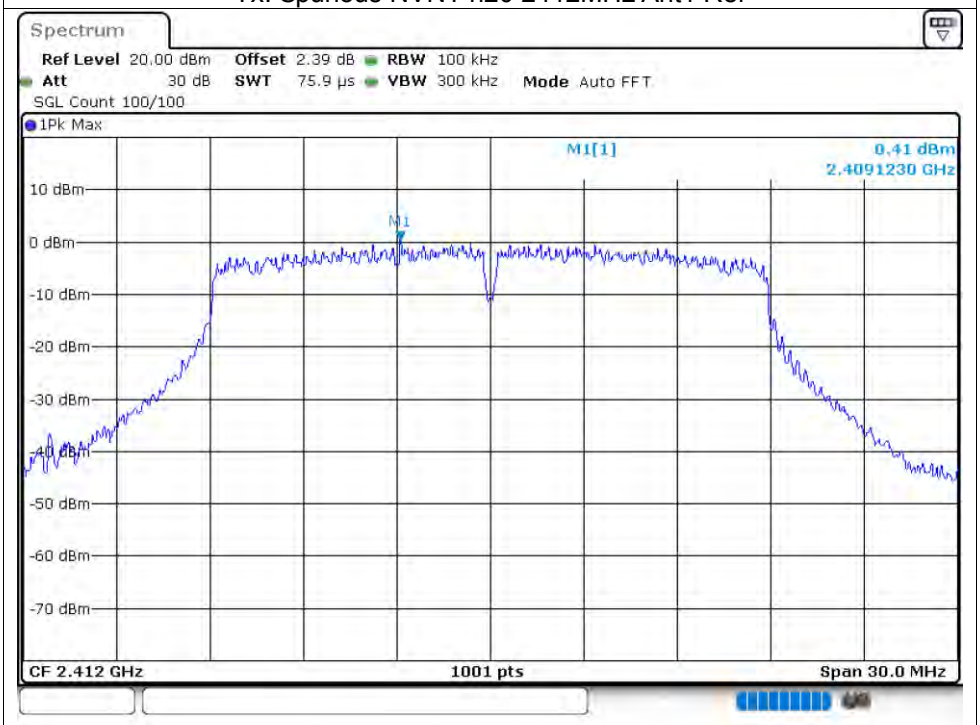
Tx. Spurious NVNT n20 2462MHz Ant0 Emission



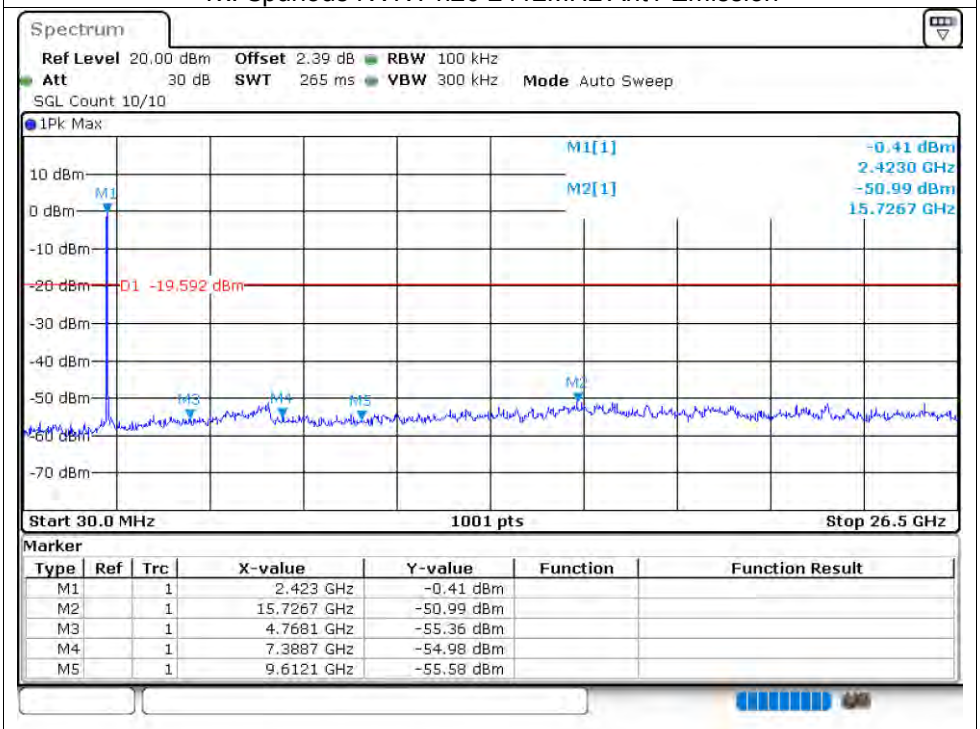
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-1.26 dBm		
M2		1	15.8855 GHz	-51.25 dBm		
M3		1	5.0328 GHz	-54.58 dBm		
M4		1	7.4416 GHz	-55.06 dBm		
M5		1	9.9827 GHz	-54.90 dBm		

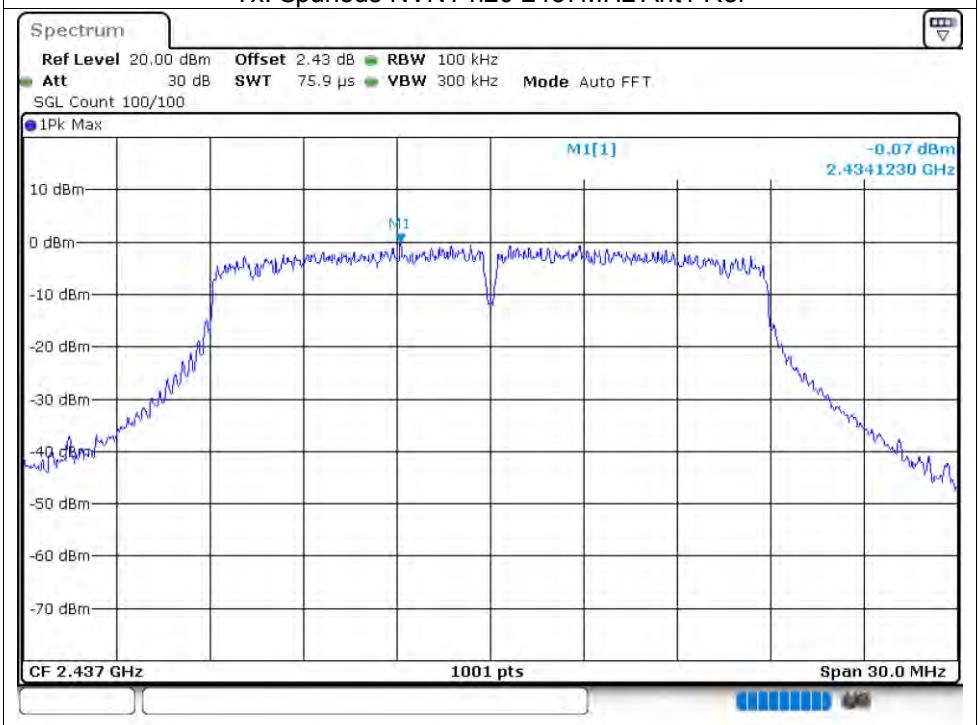
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



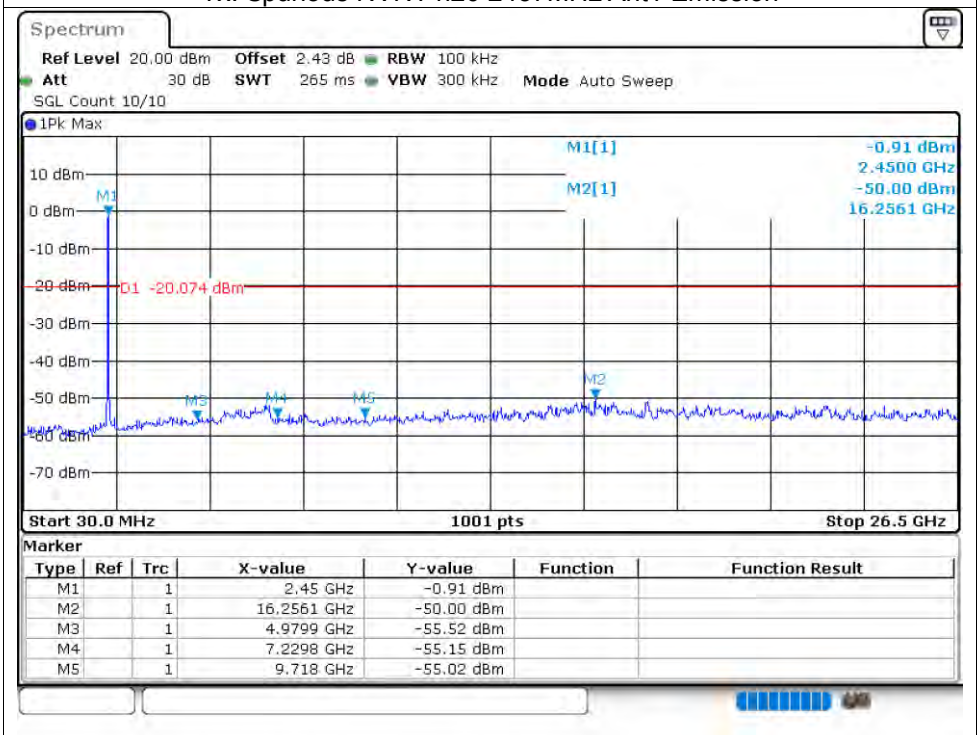
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



Tx. Spurious NVNT n20 2437MHz Ant1 Ref

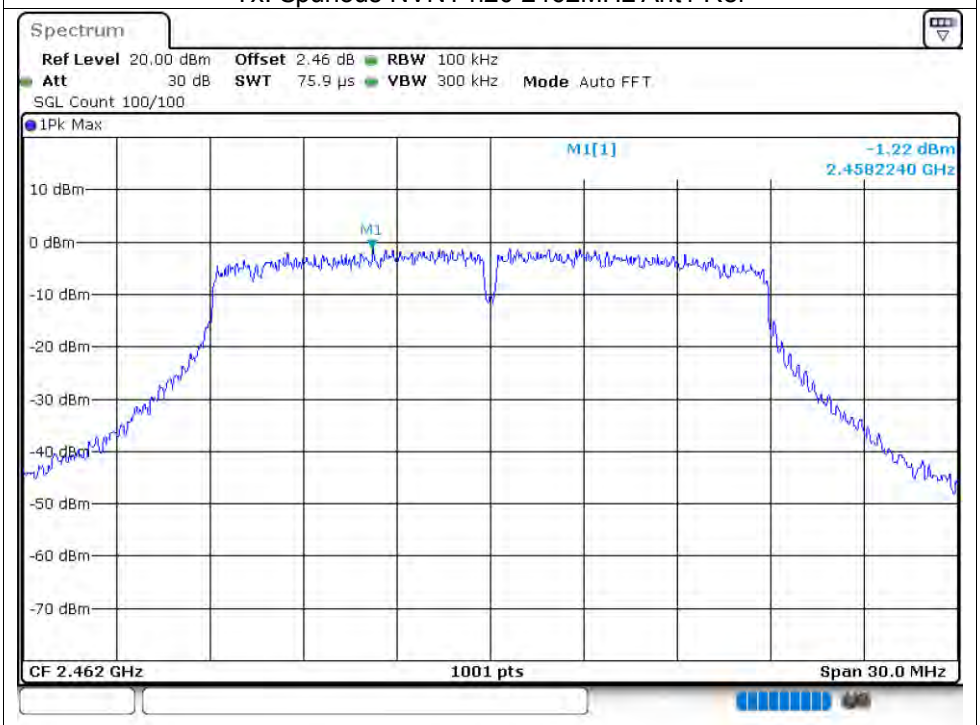


Tx. Spurious NVNT n20 2437MHz Ant1 Emission

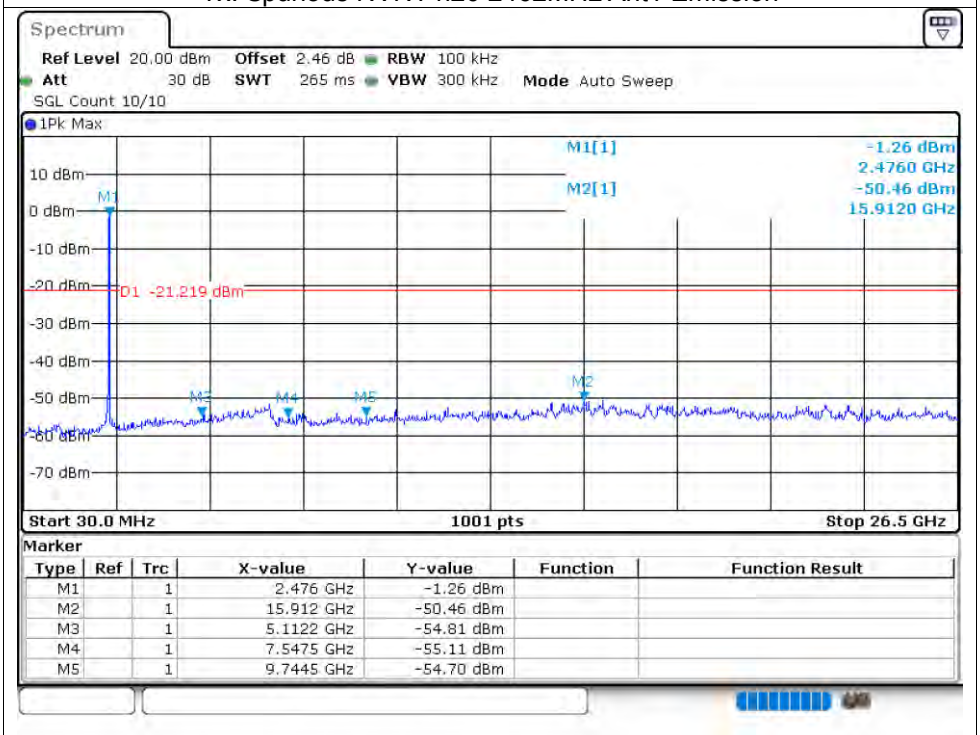


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-0.91 dBm		
M2		1	16.2561 GHz	-50.00 dBm		
M3		1	4.9799 GHz	-55.52 dBm		
M4		1	7.2298 GHz	-55.15 dBm		
M5		1	9.718 GHz	-55.02 dBm		

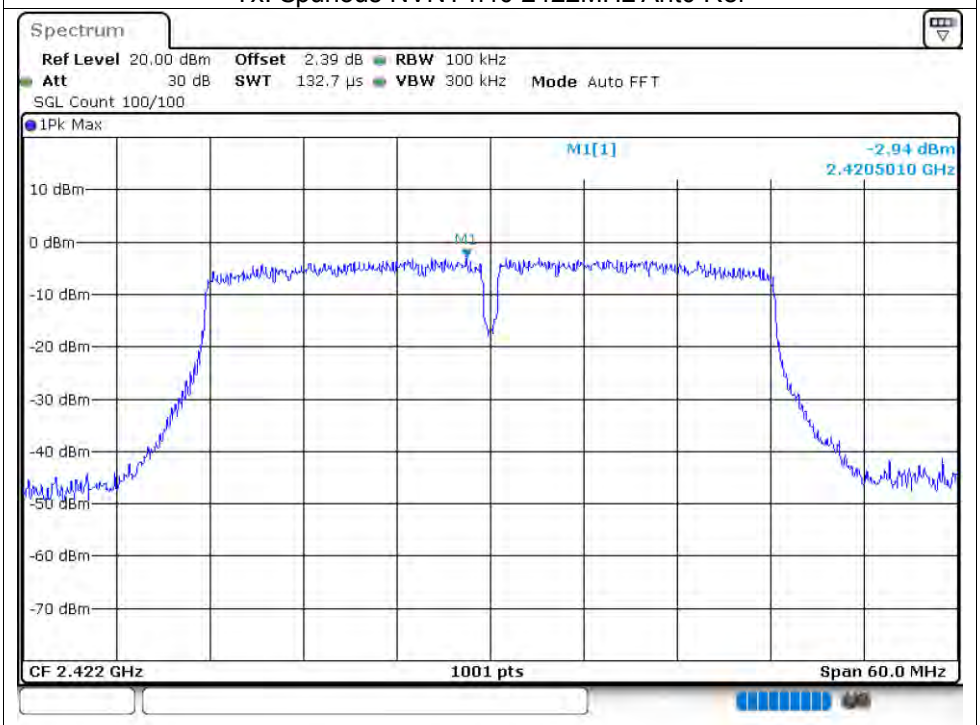
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



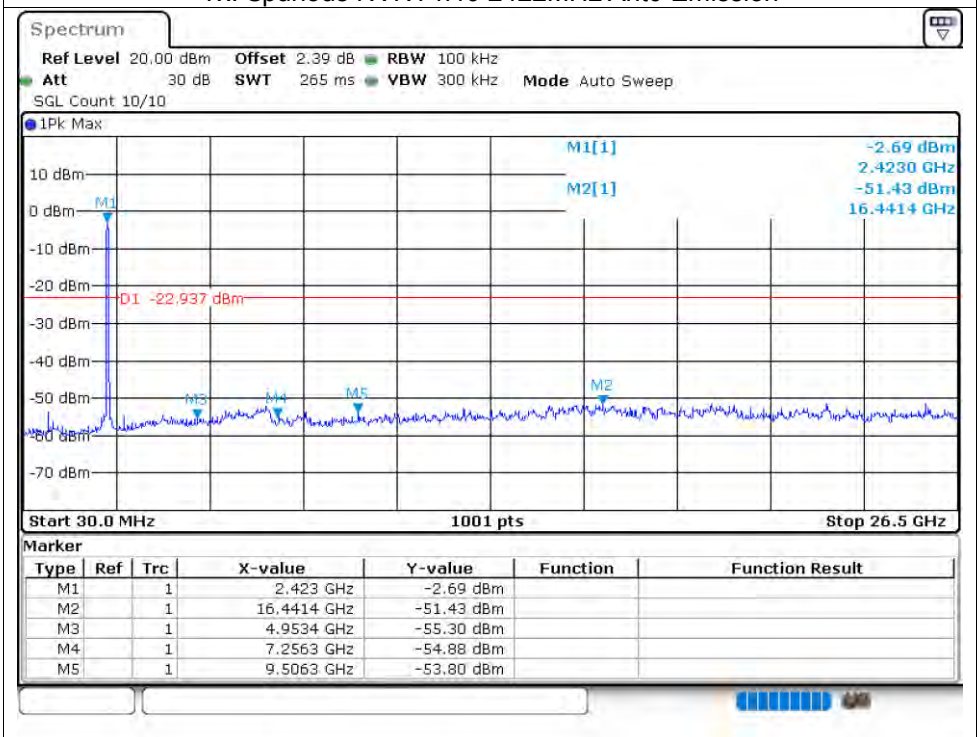
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



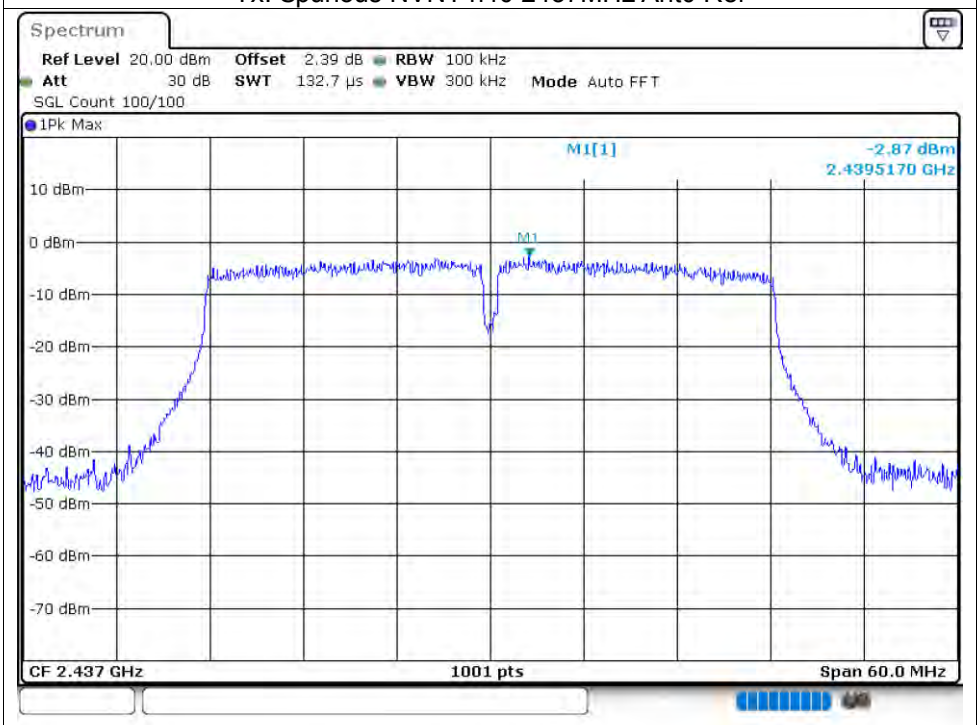
Tx. Spurious NVNT n40 2422MHz Ant0 Ref



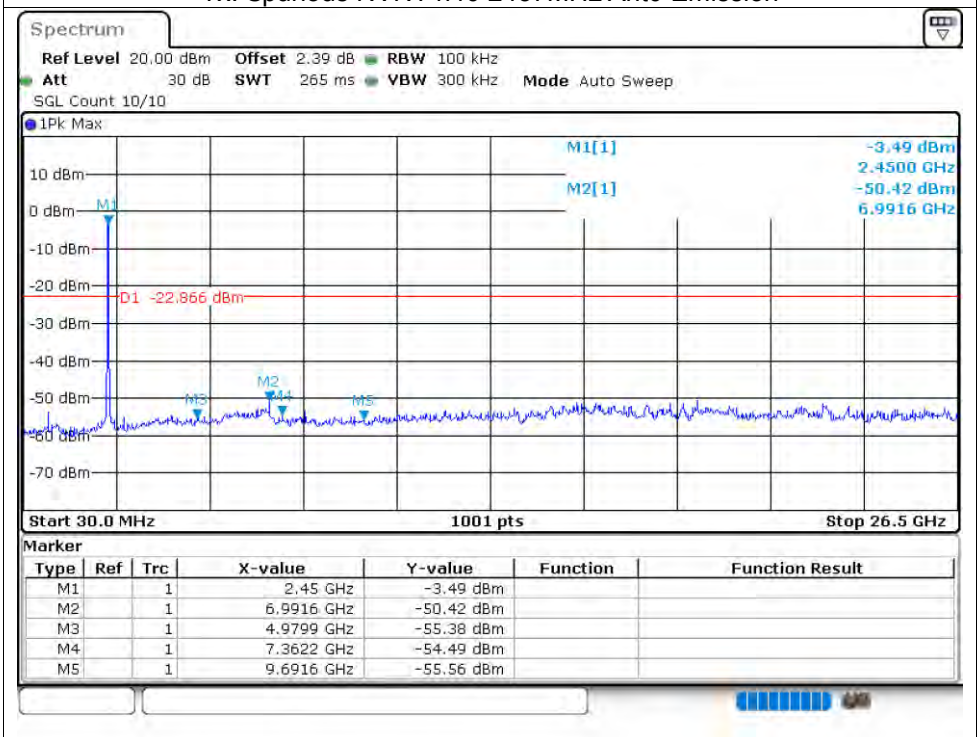
Tx. Spurious NVNT n40 2422MHz Ant0 Emission



Tx. Spurious NVNT n40 2437MHz Ant0 Ref



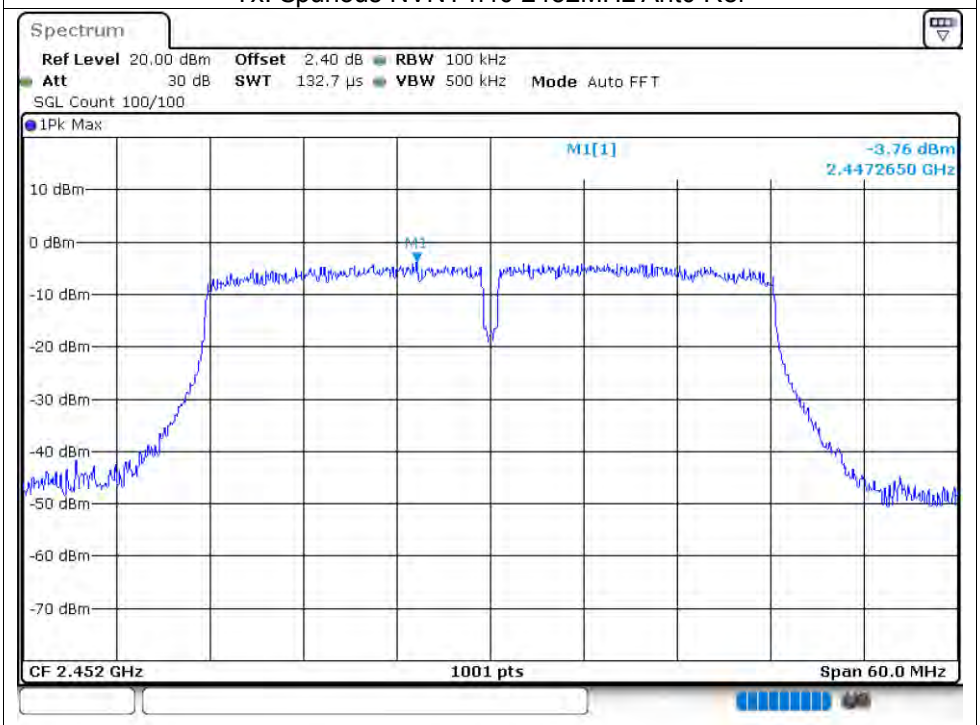
Tx. Spurious NVNT n40 2437MHz Ant0 Emission



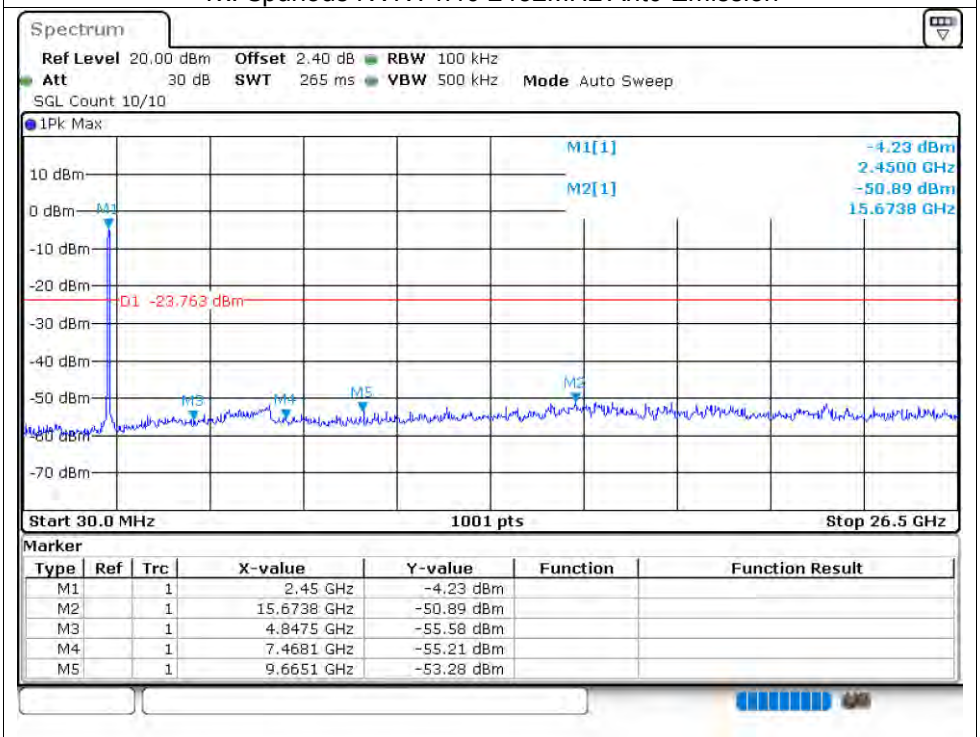
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-3.49 dBm		
M2		1	6.9916 GHz	-50.42 dBm		
M3		1	4.9799 GHz	-55.38 dBm		
M4		1	7.3622 GHz	-54.49 dBm		
M5		1	9.6916 GHz	-55.56 dBm		

Tx. Spurious NVNT n40 2452MHz Ant0 Ref

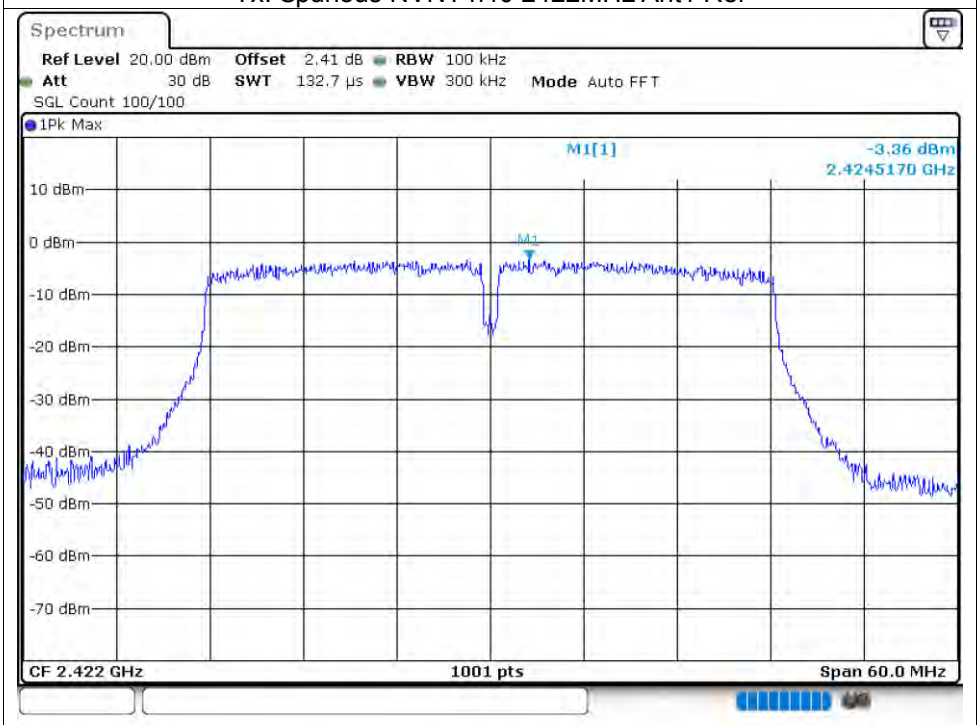


Tx. Spurious NVNT n40 2452MHz Ant0 Emission

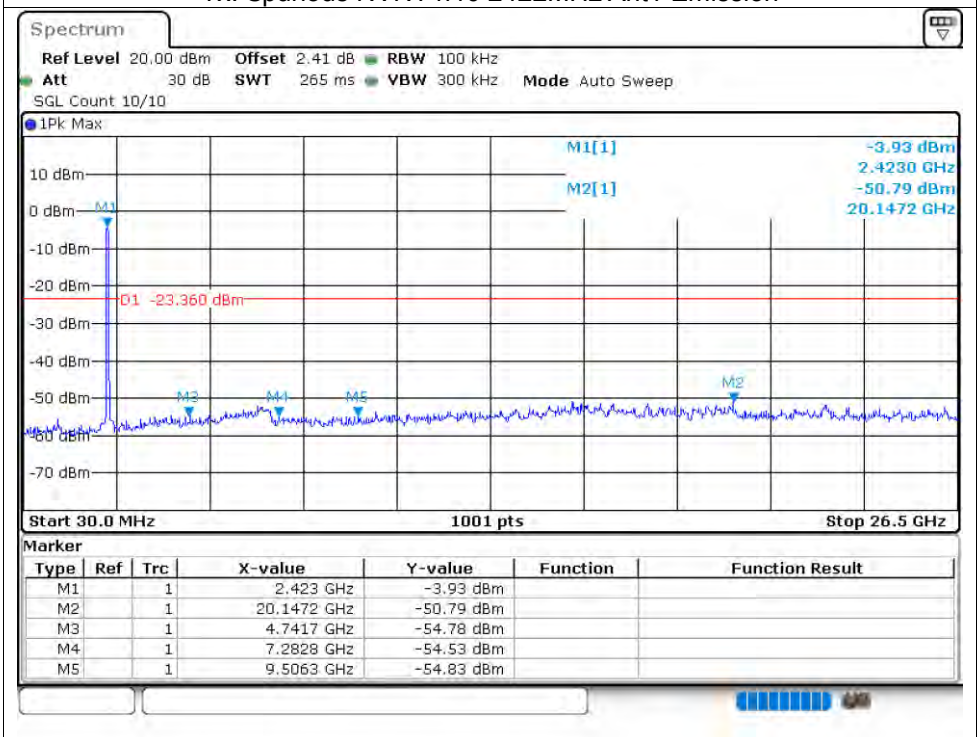


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-4.23 dBm		
M2		1	15.6738 GHz	-50.89 dBm		
M3		1	4.8475 GHz	-55.58 dBm		
M4		1	7.4681 GHz	-55.21 dBm		
M5		1	9.6651 GHz	-53.28 dBm		

Tx. Spurious NVNT n40 2422MHz Ant1 Ref

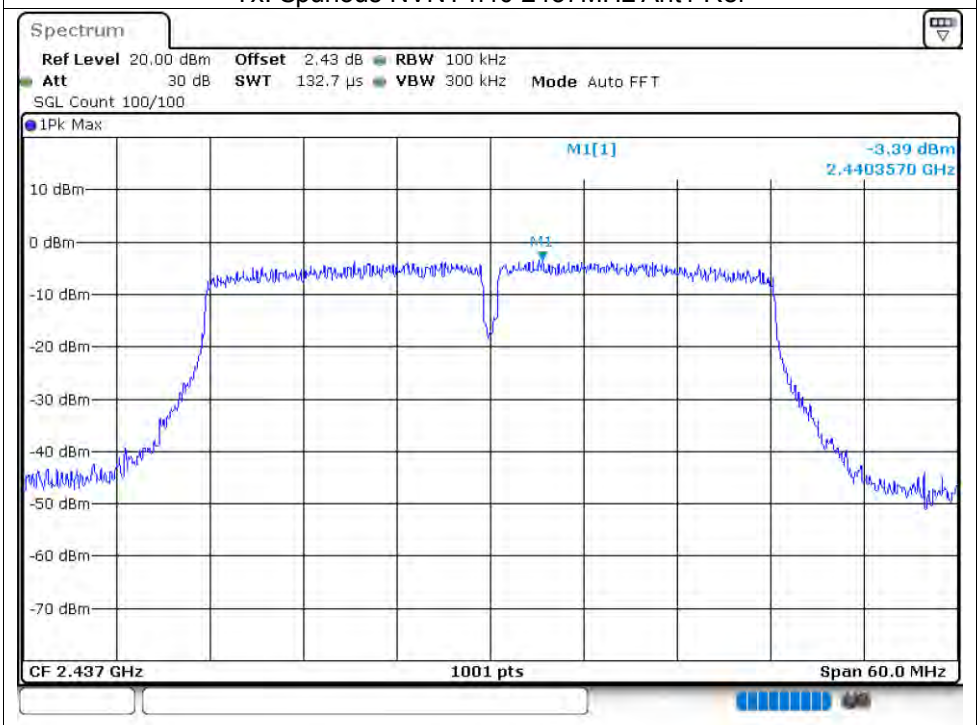


Tx. Spurious NVNT n40 2422MHz Ant1 Emission

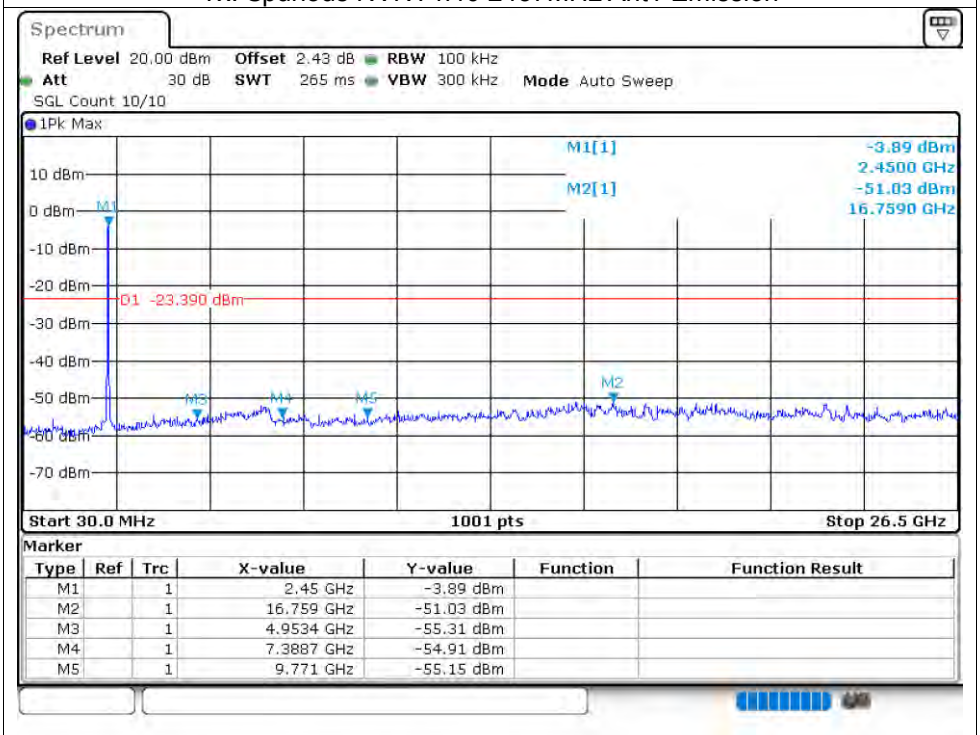


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-3.93 dBm		
M2		1	20.1472 GHz	-50.79 dBm		
M3		1	4.7417 GHz	-54.78 dBm		
M4		1	7.2828 GHz	-54.53 dBm		
M5		1	9.5063 GHz	-54.83 dBm		

Tx. Spurious NVNT n40 2437MHz Ant1 Ref

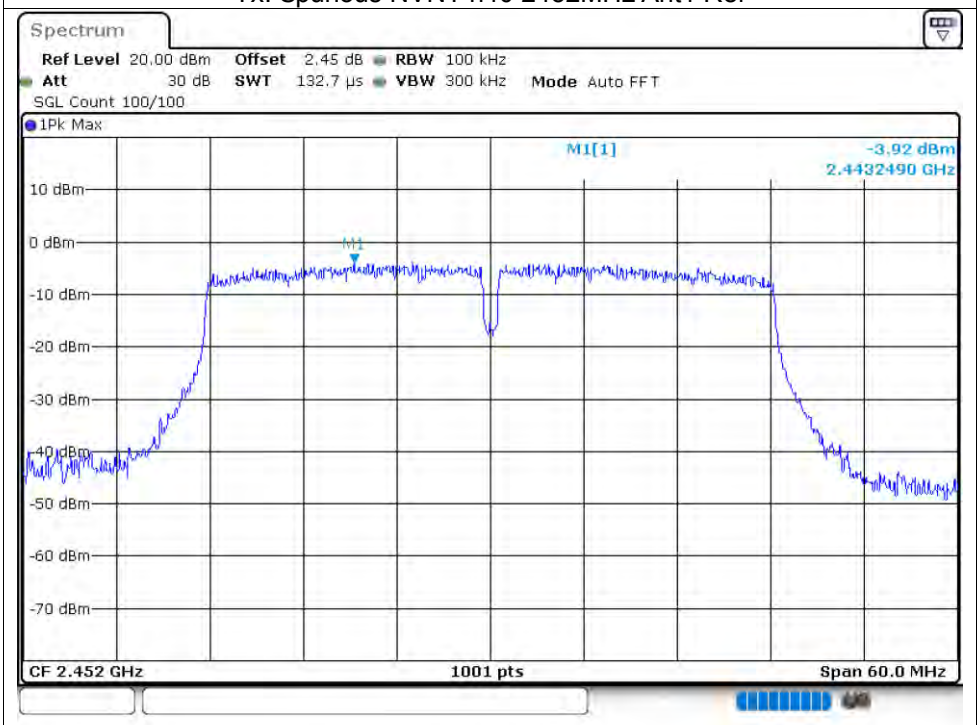


Tx. Spurious NVNT n40 2437MHz Ant1 Emission

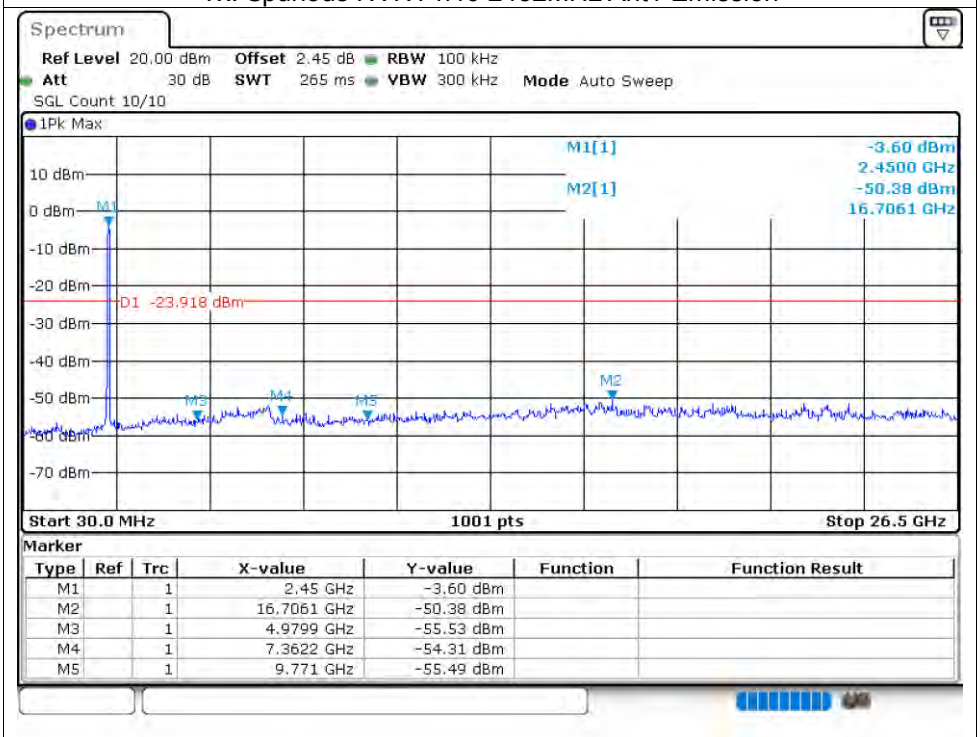


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-3.89 dBm		
M2		1	16.759 GHz	-51.03 dBm		
M3		1	4.9534 GHz	-55.31 dBm		
M4		1	7.3887 GHz	-54.91 dBm		
M5		1	9.771 GHz	-55.15 dBm		

Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



8.2 2.4G WIFI MIMO

8.2.1 Maximum Conducted Output Power

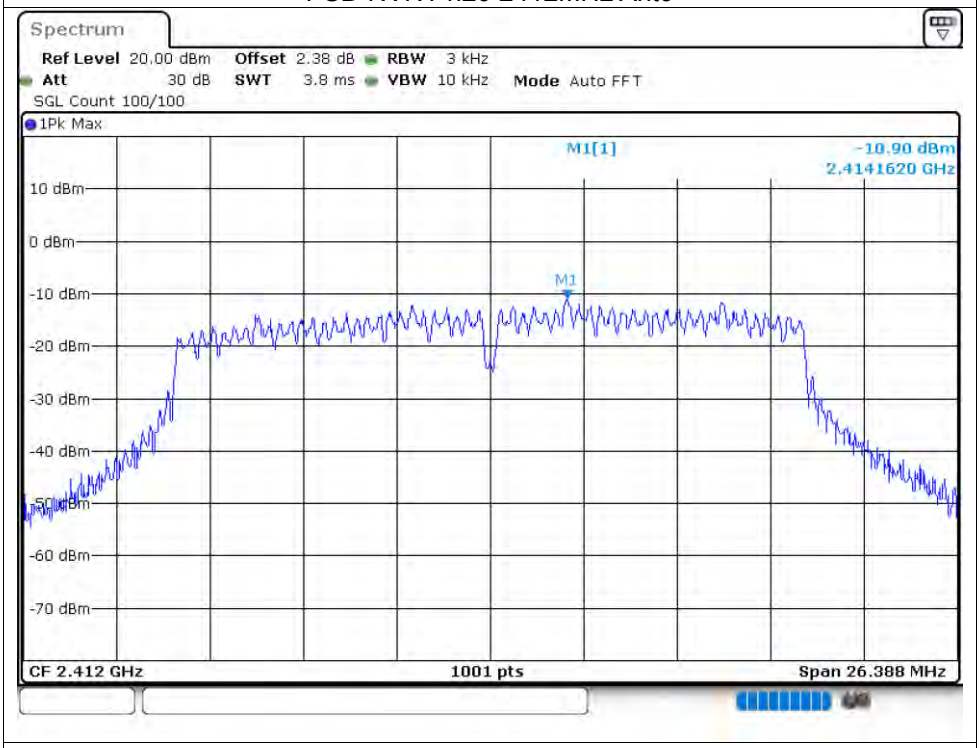
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant0	16.86	--	Pass
NVNT	n20	2412	Ant1	14.74	--	Pass
NVNT	n20	2412	Sum	18.94	29.56	Pass
NVNT	n20	2437	Ant0	16.65	--	Pass
NVNT	n20	2437	Ant1	14.33	--	Pass
NVNT	n20	2437	Sum	18.65	29.56	Pass
NVNT	n20	2462	Ant0	15.68	--	Pass
NVNT	n20	2462	Ant1	13.71	--	Pass
NVNT	n20	2462	Sum	17.82	29.56	Pass
NVNT	n40	2422	Ant0	15.75	--	Pass
NVNT	n40	2422	Ant1	13.53	--	Pass
NVNT	n40	2422	Sum	17.79	29.56	Pass
NVNT	n40	2437	Ant0	15.18	--	Pass
NVNT	n40	2437	Ant1	13.39	--	Pass
NVNT	n40	2437	Sum	17.39	29.56	Pass
NVNT	n40	2452	Ant0	15.22	--	Pass
NVNT	n40	2452	Ant1	12.95	--	Pass
NVNT	n40	2452	Sum	17.24	29.56	Pass

8.2.2 Maximum Power Spectral Density Level

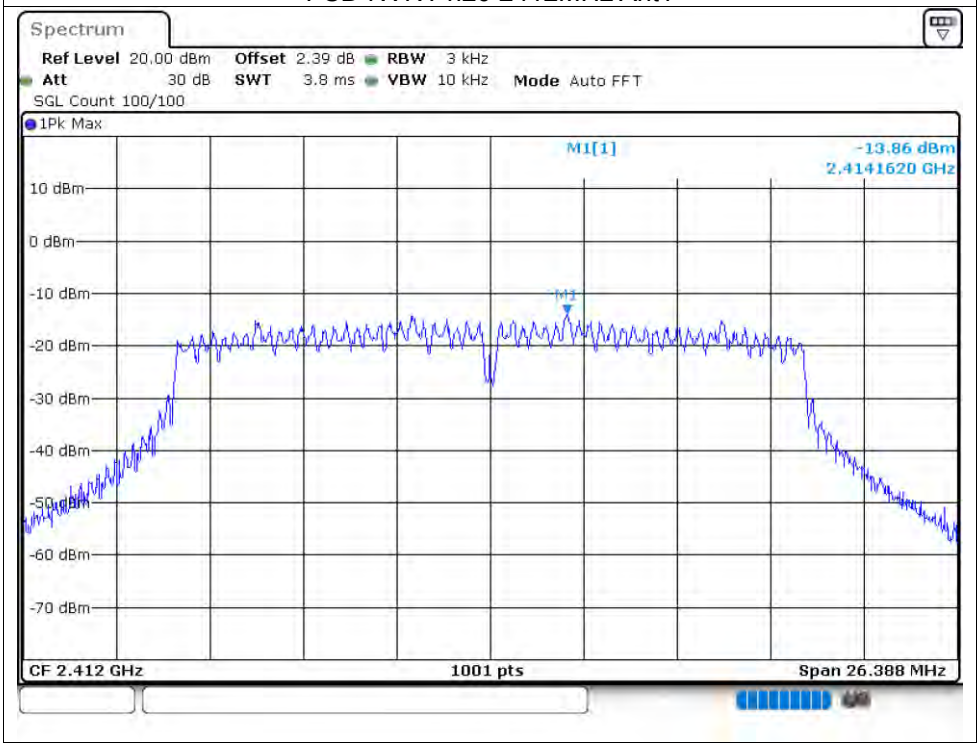
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant0	-10.9	--	Pass
NVNT	n20	2412	Ant1	-13.86	--	Pass
NVNT	n20	2412	Sum	-9.12	7.56	Pass
NVNT	n20	2437	Ant0	-11.21	--	Pass
NVNT	n20	2437	Ant1	-14.22	--	Pass
NVNT	n20	2437	Sum	-9.45	7.56	Pass
NVNT	n20	2462	Ant0	-11.82	--	Pass
NVNT	n20	2462	Ant1	-14.78	--	Pass
NVNT	n20	2462	Sum	-10.04	7.56	Pass
NVNT	n40	2422	Ant0	-13.06	--	Pass
NVNT	n40	2422	Ant1	-16.31	--	Pass
NVNT	n40	2422	Sum	-11.38	7.56	Pass
NVNT	n40	2437	Ant0	-13.45	--	Pass
NVNT	n40	2437	Ant1	-16.71	--	Pass
NVNT	n40	2437	Sum	-11.77	7.56	Pass
NVNT	n40	2452	Ant0	-13.48	--	Pass
NVNT	n40	2452	Ant1	-16.83	--	Pass
NVNT	n40	2452	Sum	-11.83	7.56	Pass

Test Graphs

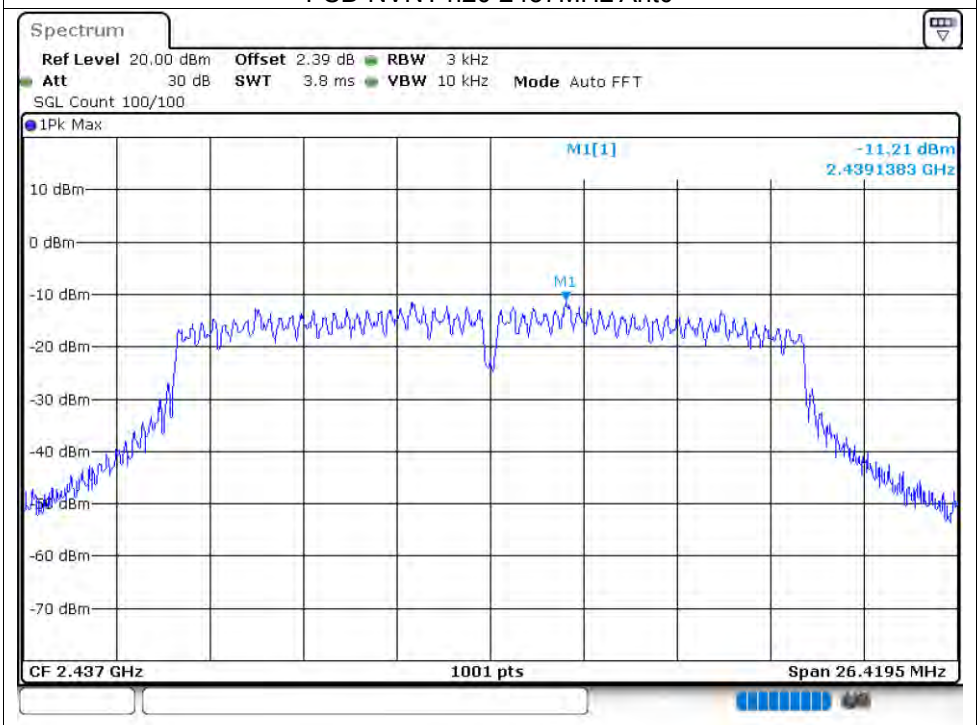
PSD NVNT n20 2412MHz Ant0



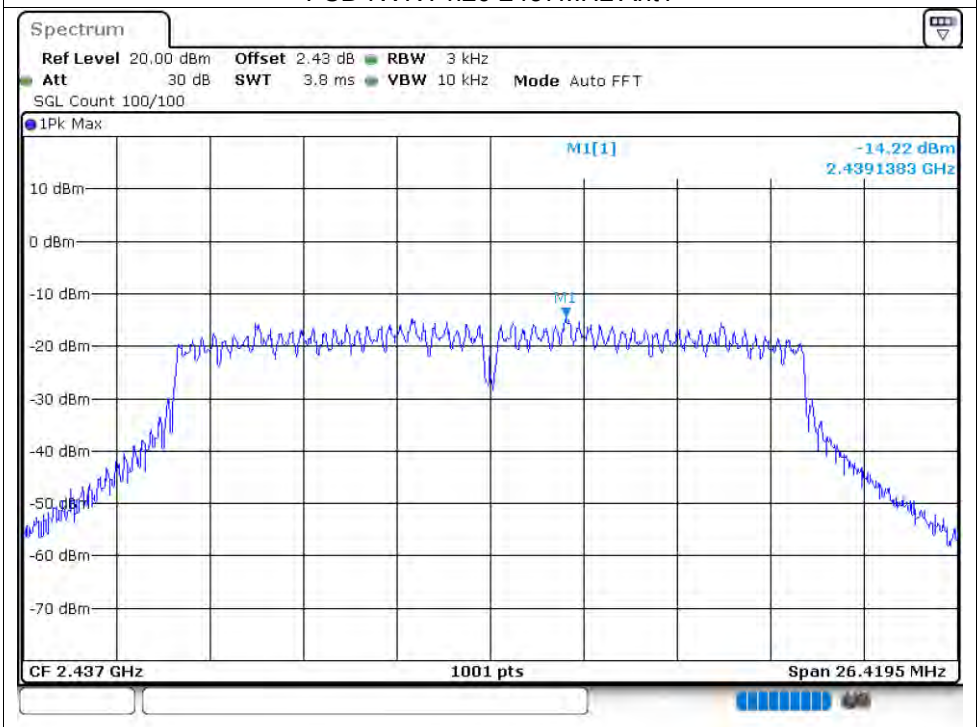
PSD NVNT n20 2412MHz Ant1



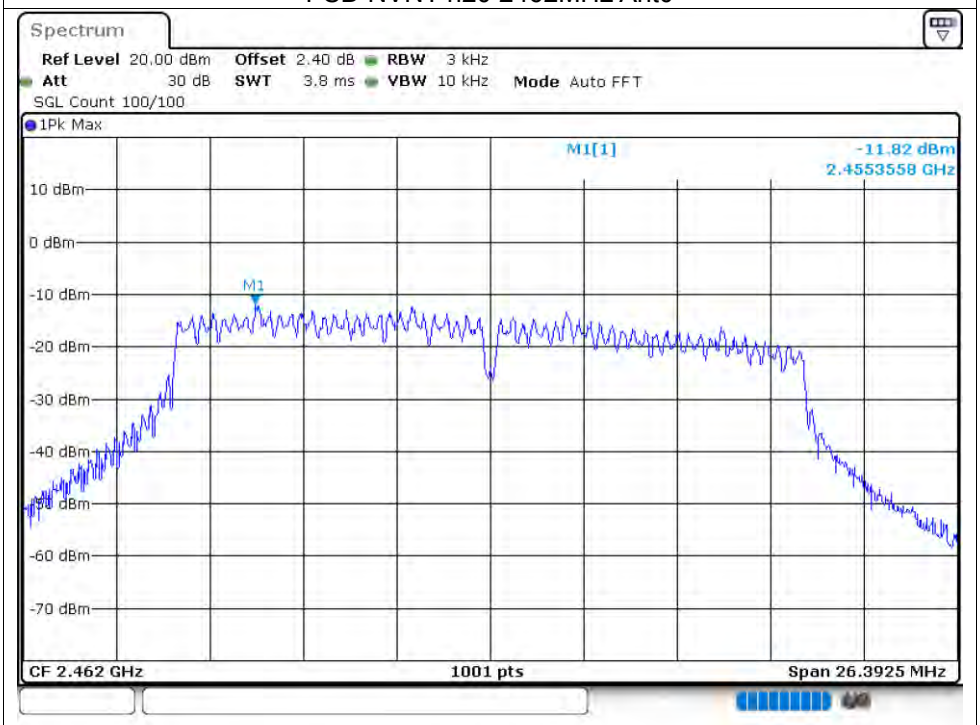
PSD NVNT n20 2437MHz Ant0



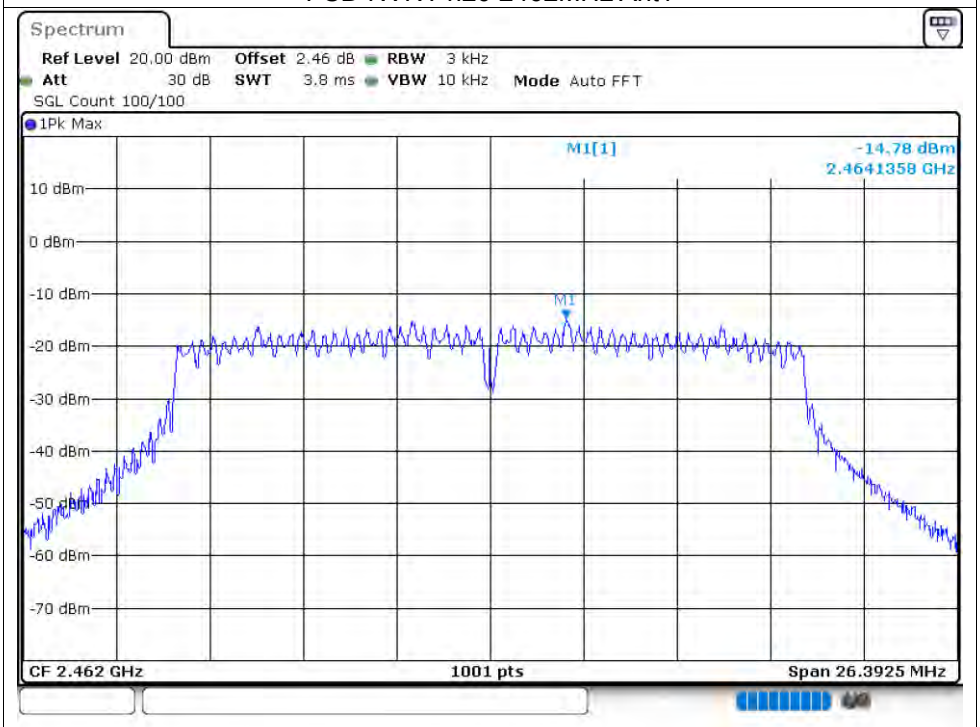
PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant0



PSD NVNT n20 2462MHz Ant1



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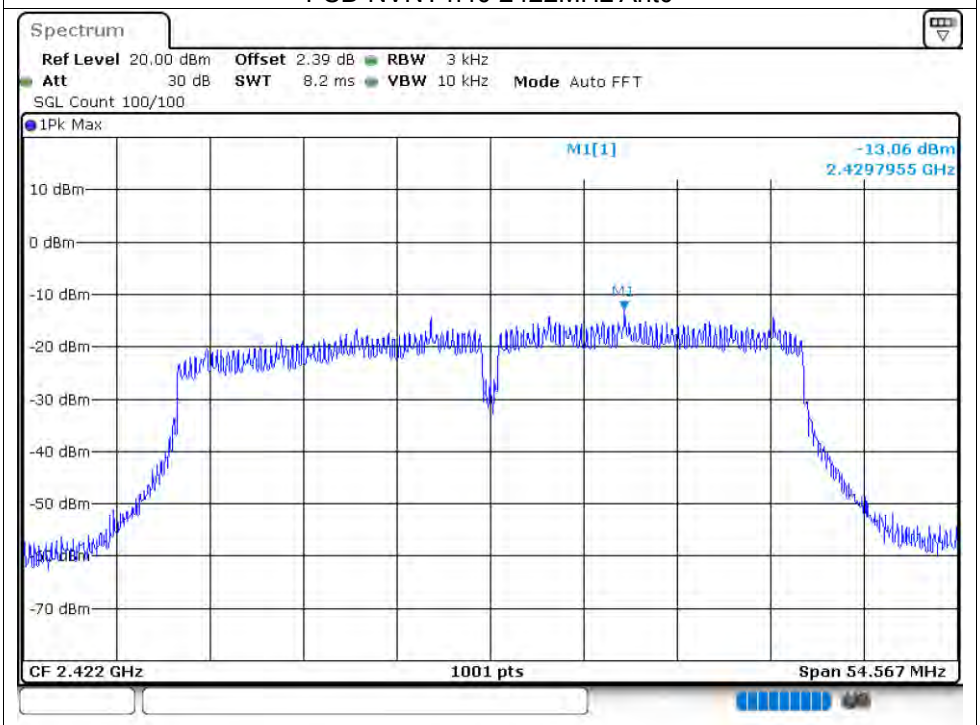
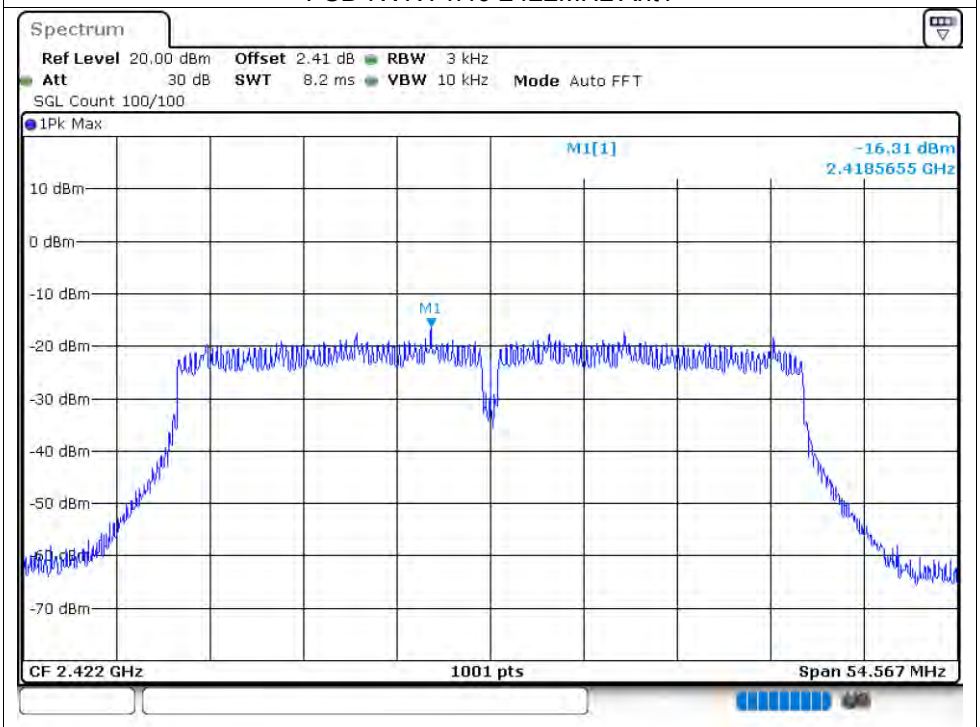
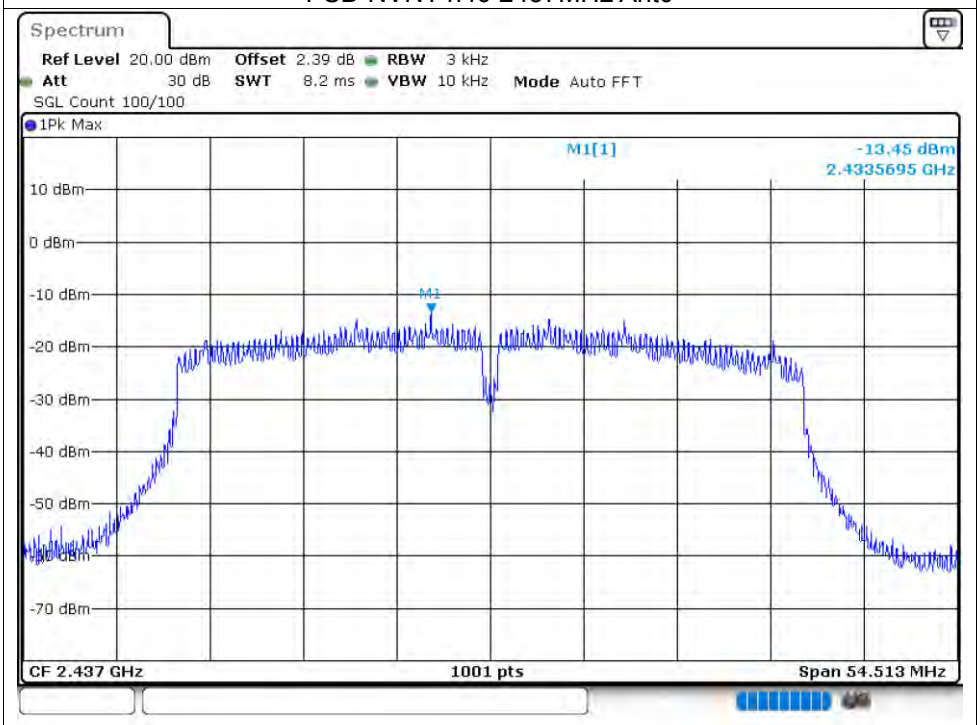


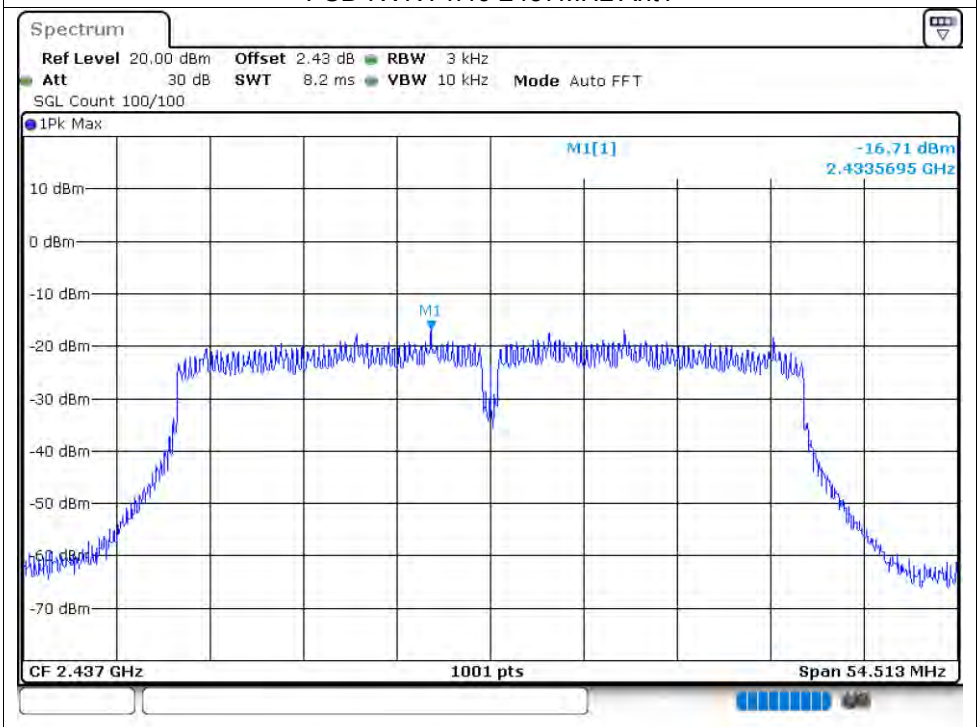
PSD NVNT n40 2422MHz Ant1



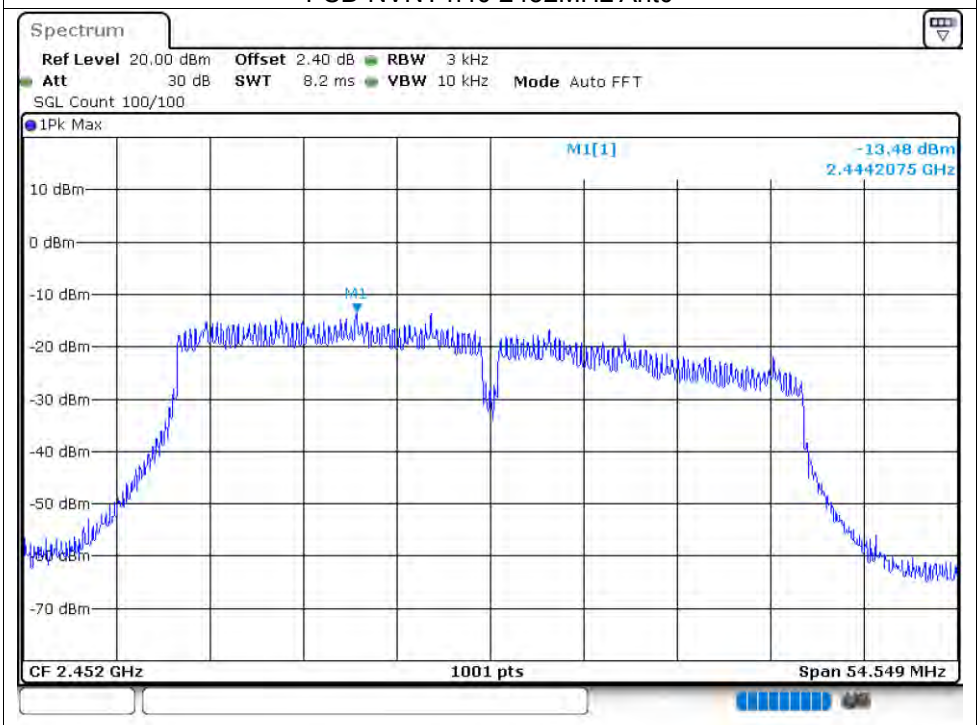
PSD NVNT n40 2437MHz Ant0



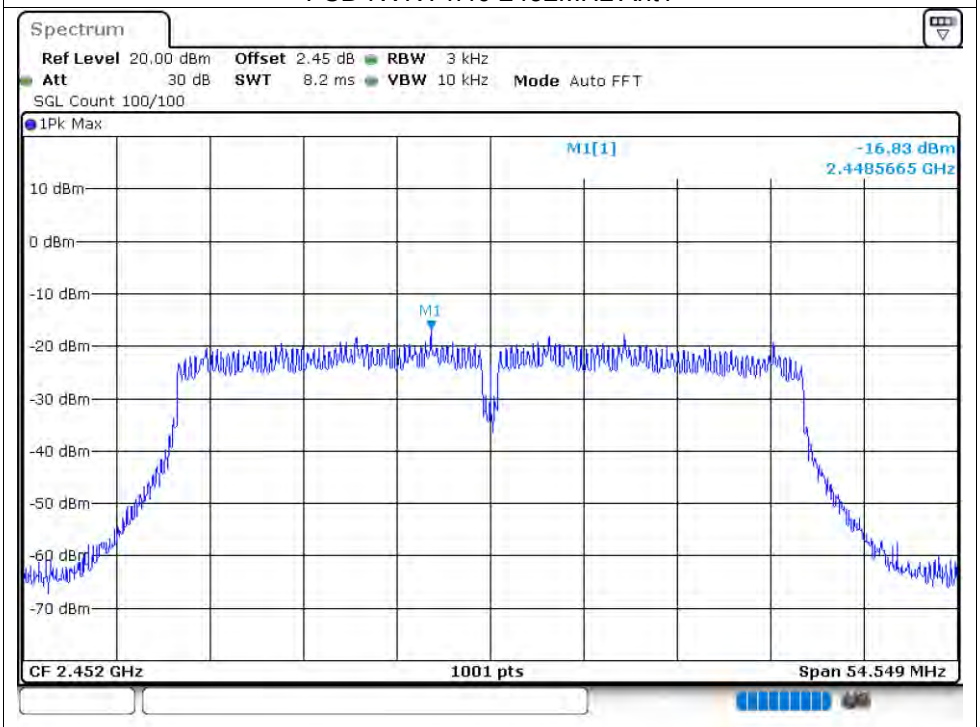
PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant0



PSD NVNT n40 2452MHz Ant1



END OF REPORT