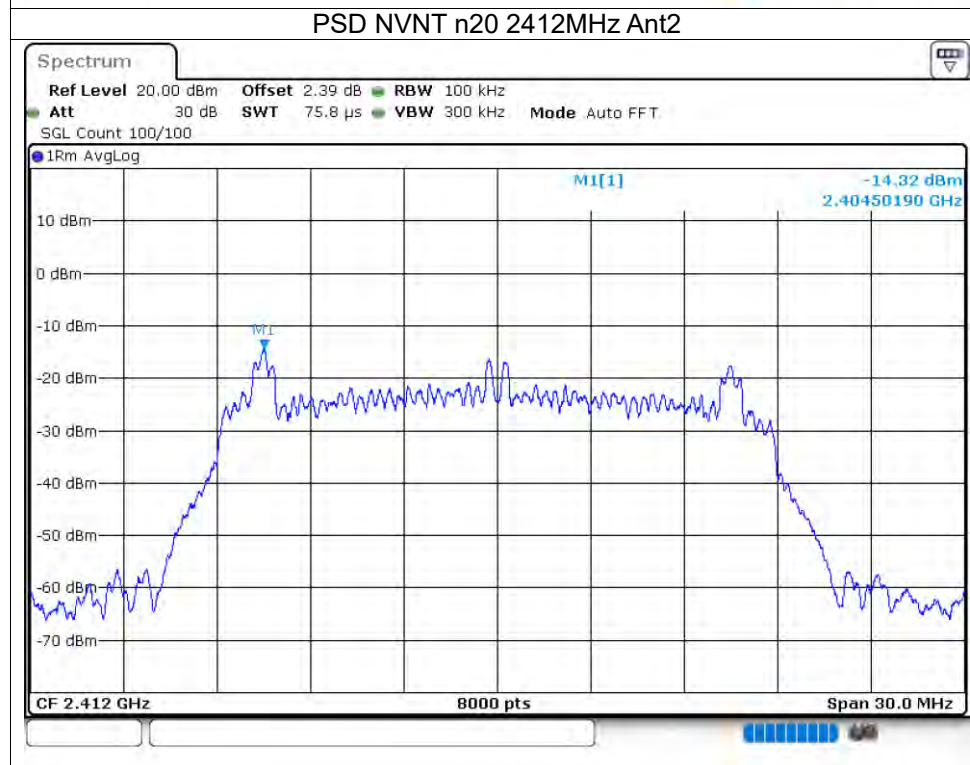
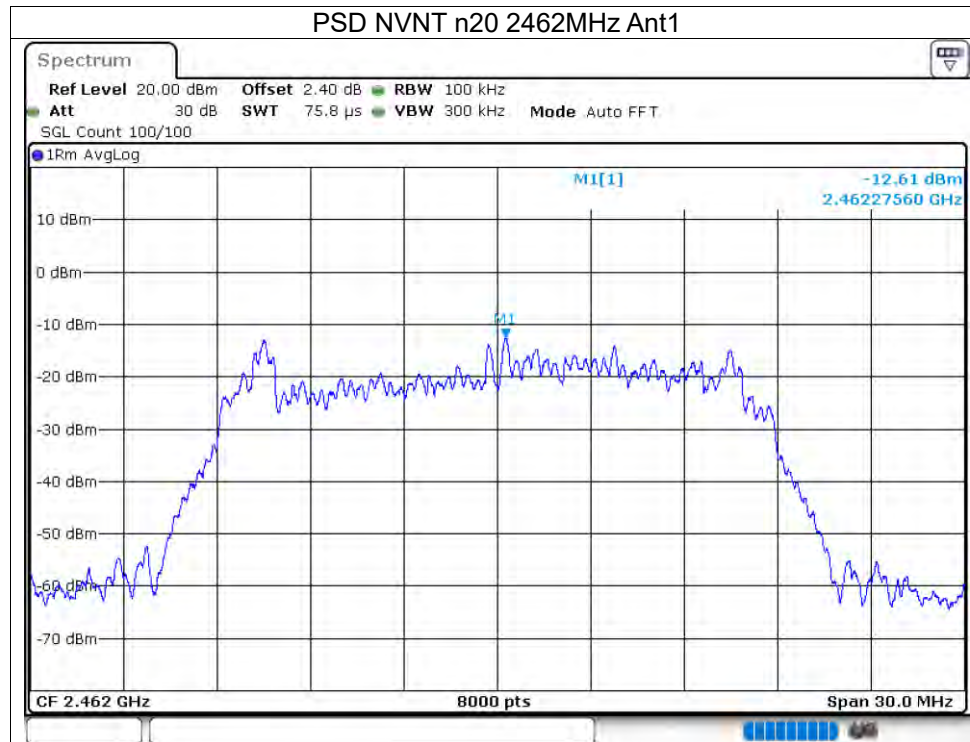
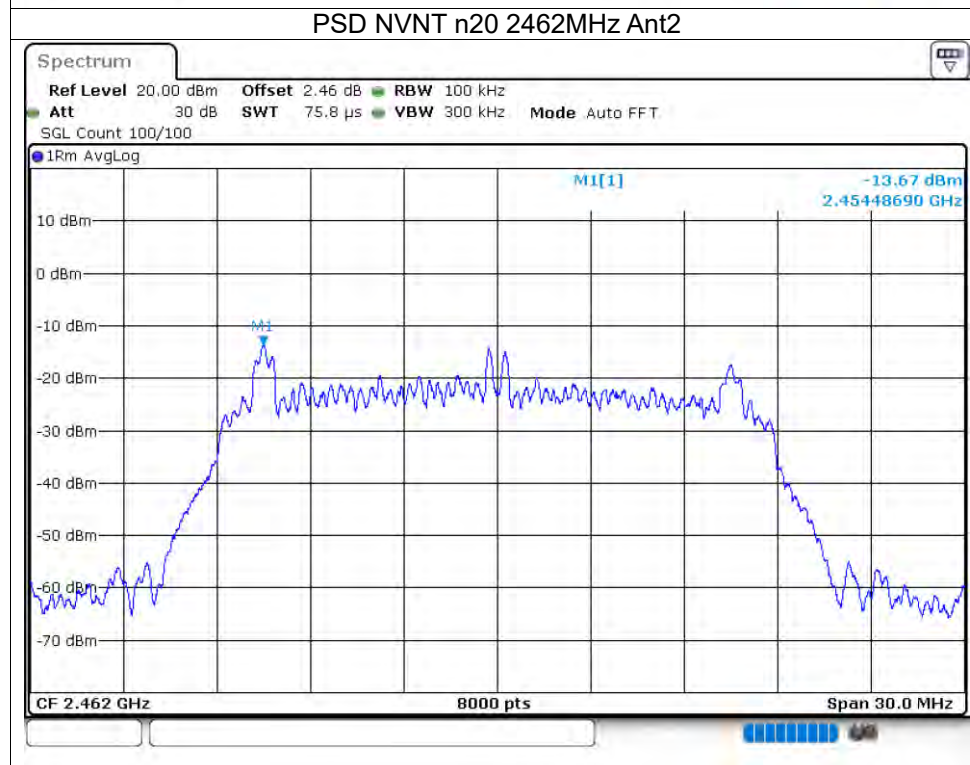
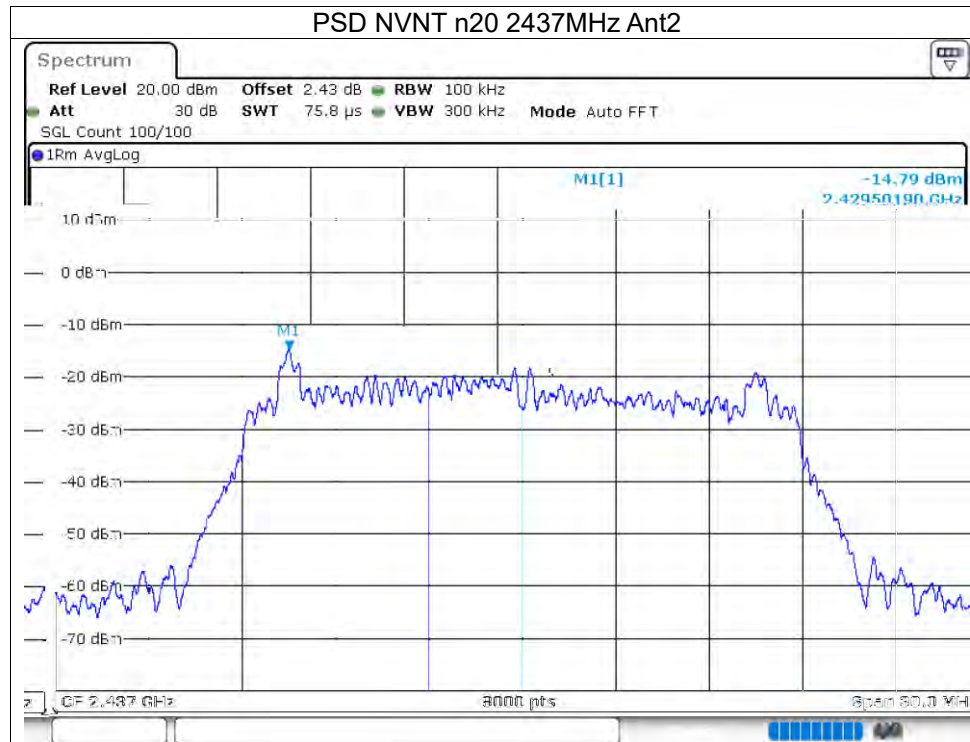
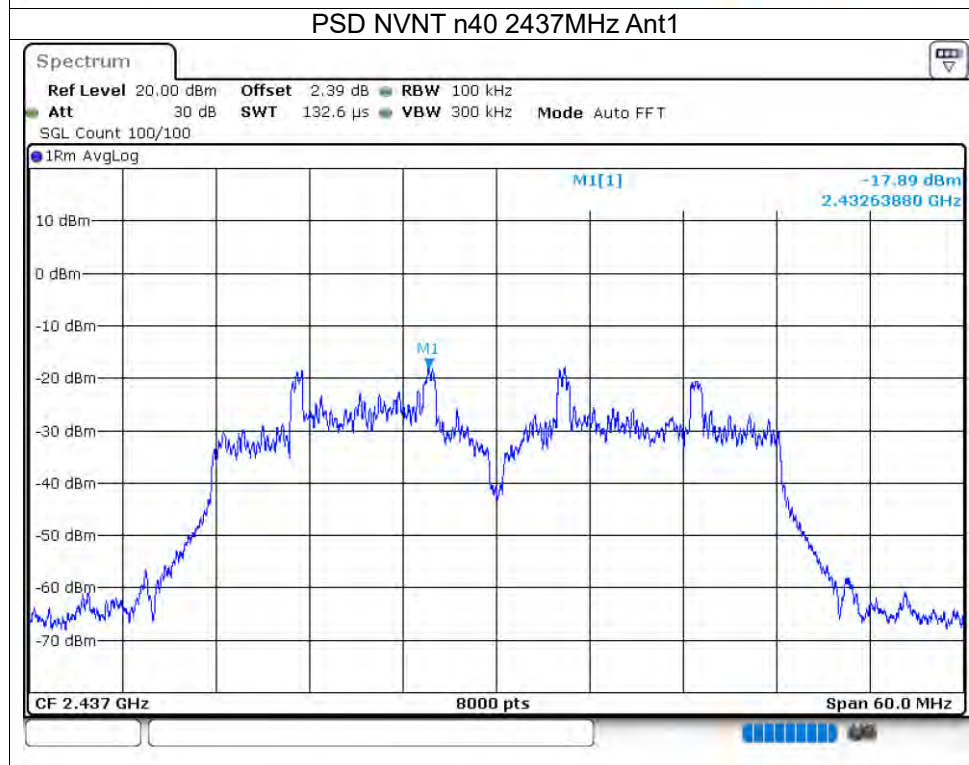
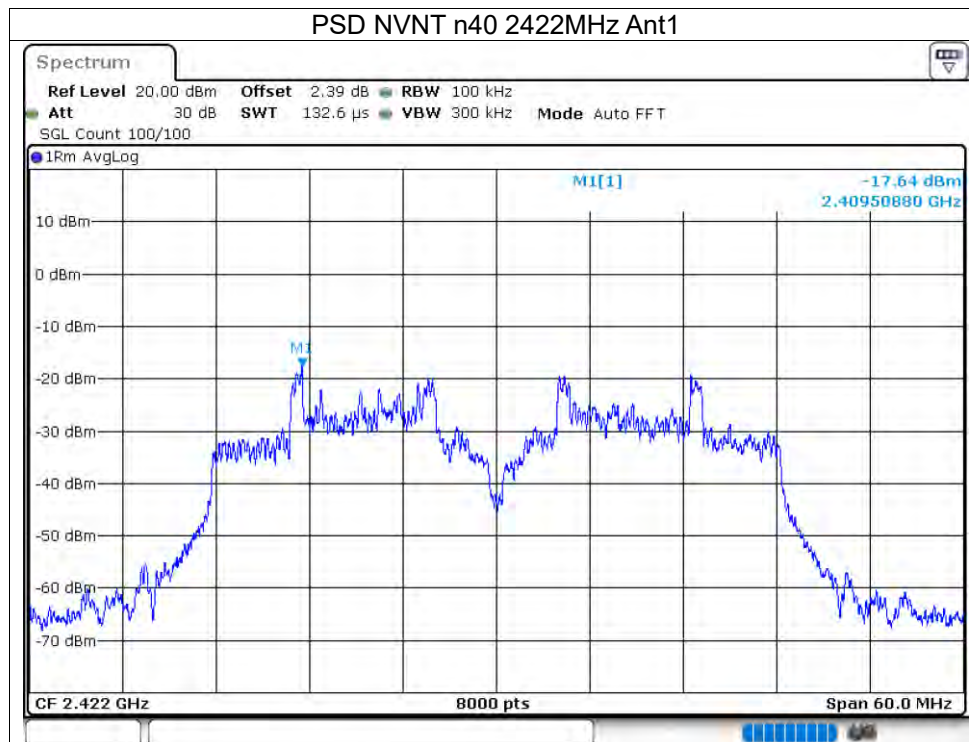
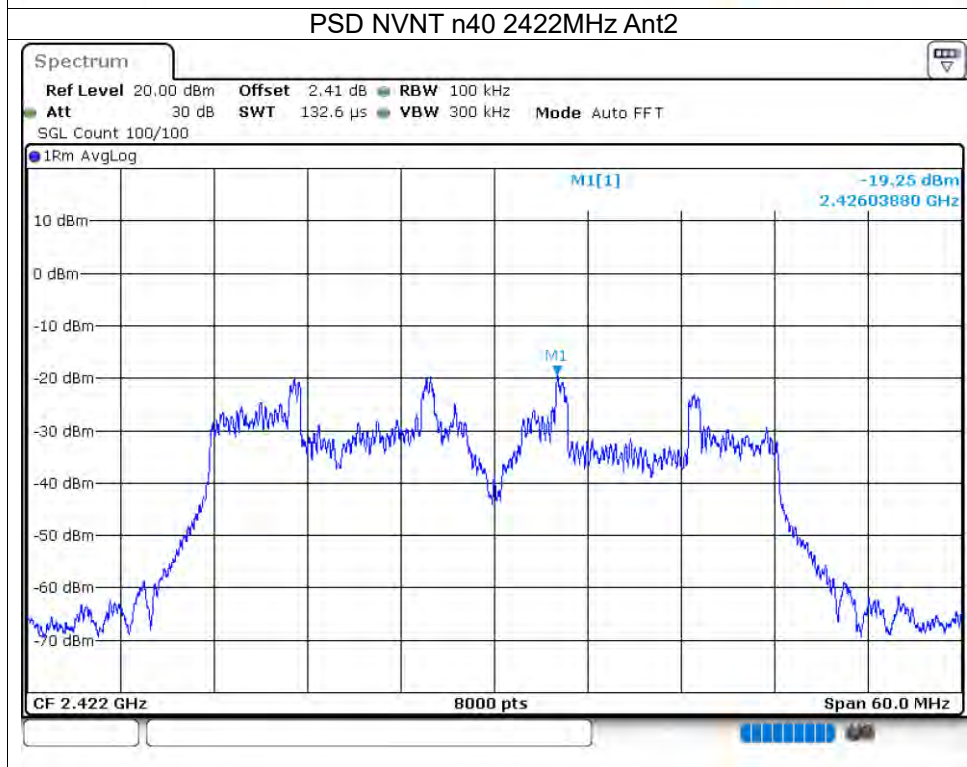
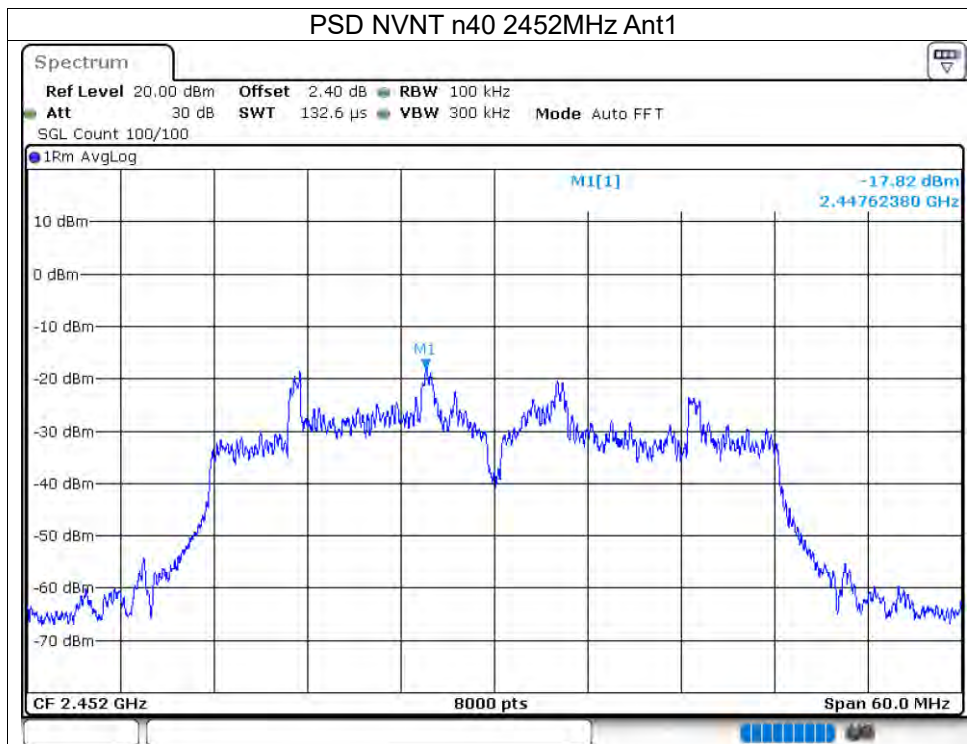
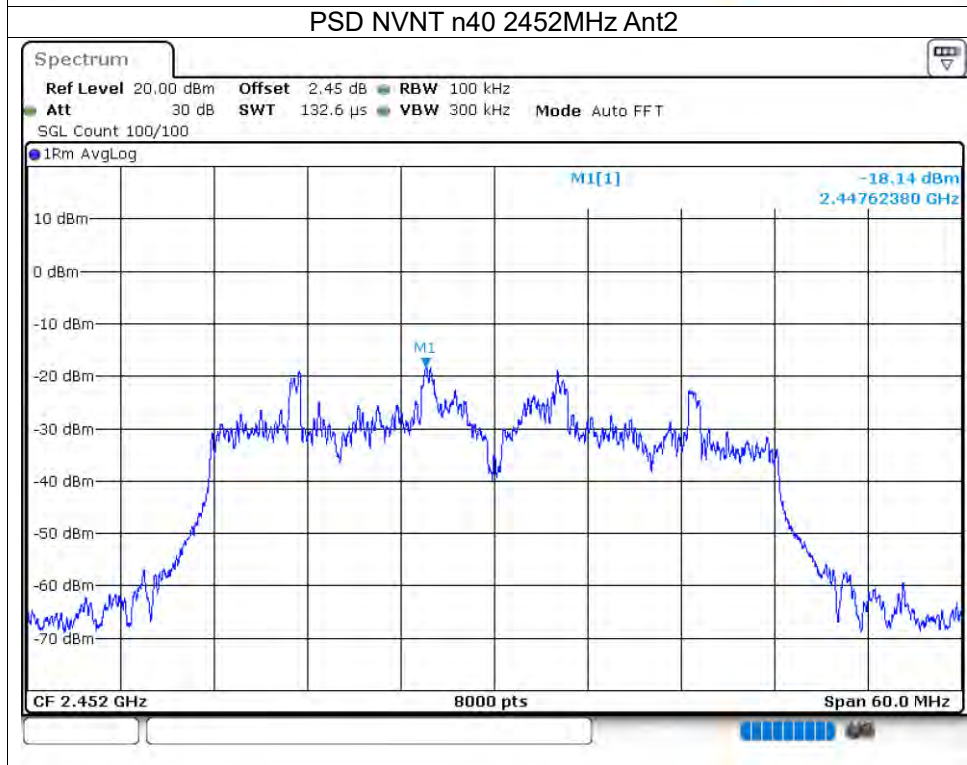
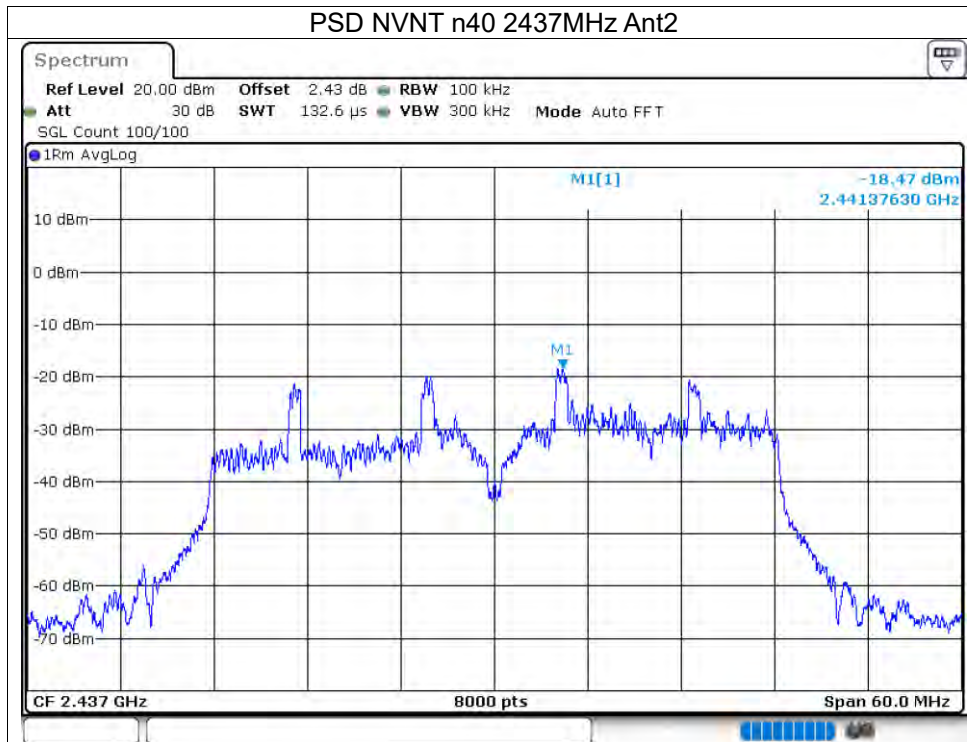










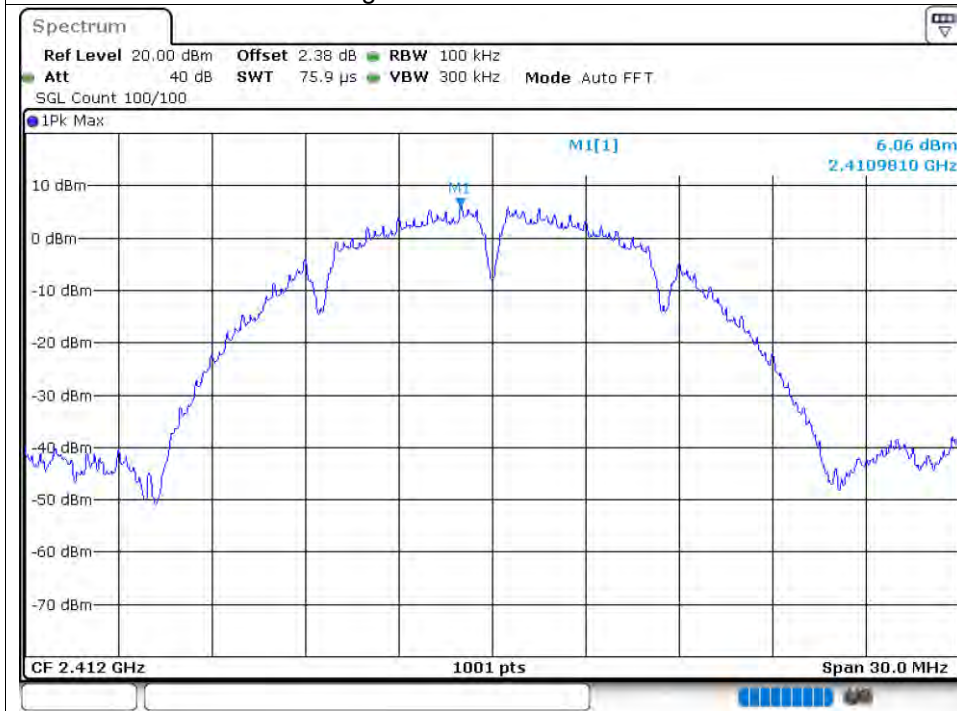


8.1.6 Band Edge

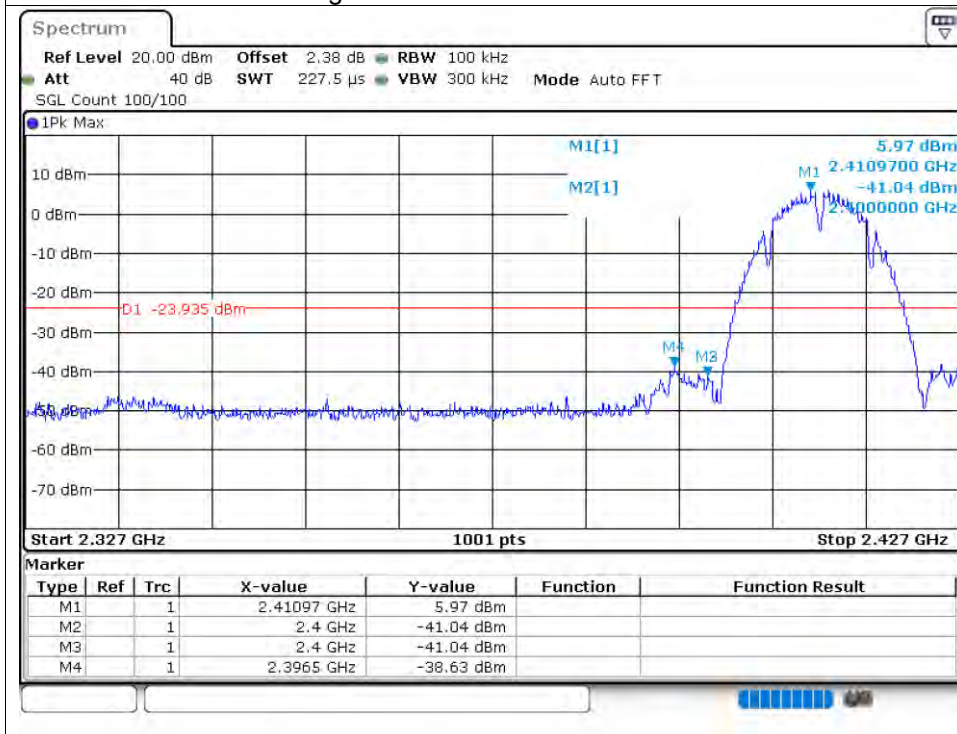
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-44.68	-30	Pass
NVNT	b	2462	Ant1	-58.77	-30	Pass
NVNT	b	2412	Ant2	-48.64	-30	Pass
NVNT	b	2462	Ant2	-61.78	-30	Pass
NVNT	g	2412	Ant1	-43.26	-30	Pass
NVNT	g	2462	Ant1	-53.79	-30	Pass
NVNT	g	2412	Ant2	-44.84	-30	Pass
NVNT	g	2462	Ant2	-55.18	-30	Pass
NVNT	n20	2412	Ant1	-45.3	-30	Pass
NVNT	n20	2462	Ant1	-53.33	-30	Pass
NVNT	n20	2412	Ant2	-44.45	-30	Pass
NVNT	n20	2462	Ant2	-53.42	-30	Pass
NVNT	n40	2422	Ant1	-39.76	-30	Pass
NVNT	n40	2452	Ant1	-45.81	-30	Pass
NVNT	n40	2422	Ant2	-39.1	-30	Pass
NVNT	n40	2452	Ant2	-49.83	-30	Pass

Test Graphs

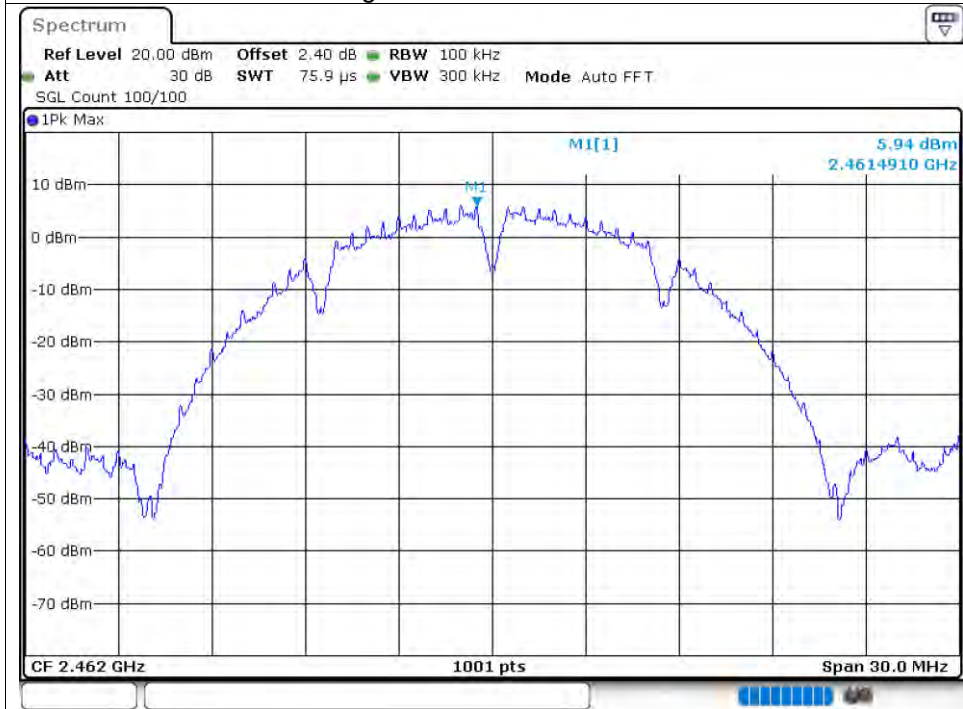
Band Edge NVNT b 2412MHz Ant1 Ref



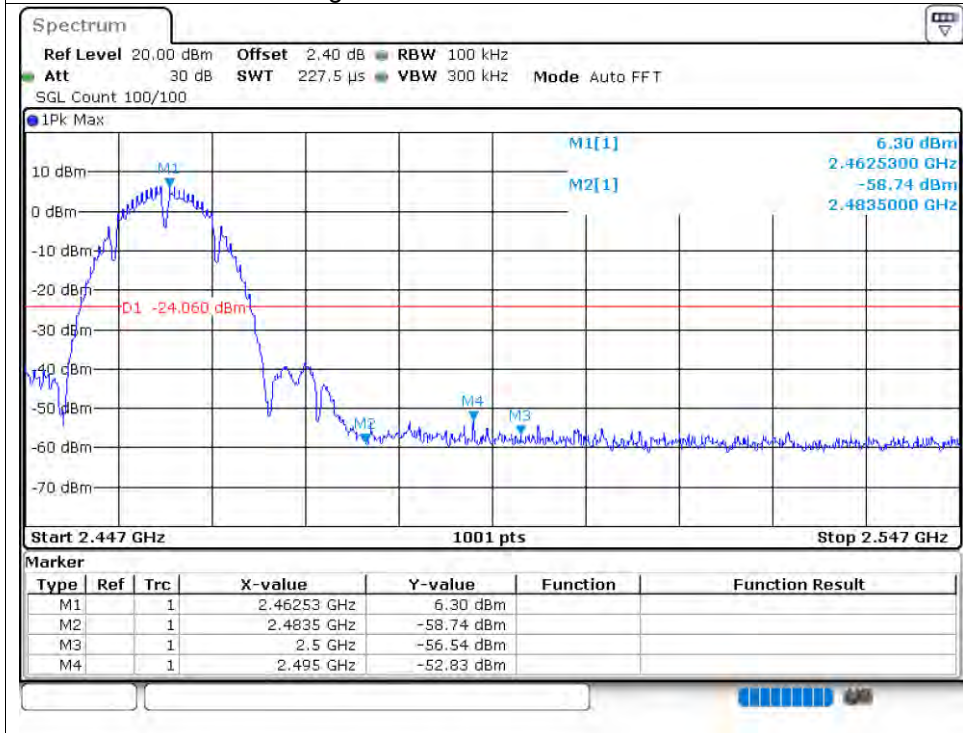
Band Edge NVNT b 2412MHz Ant1 Emission

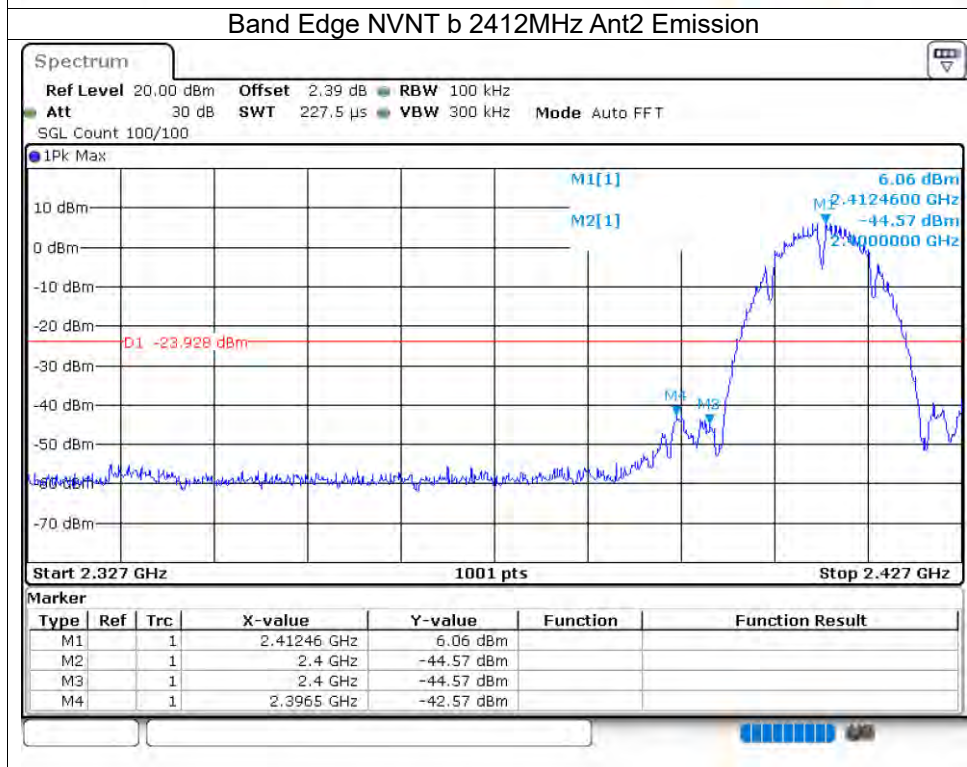
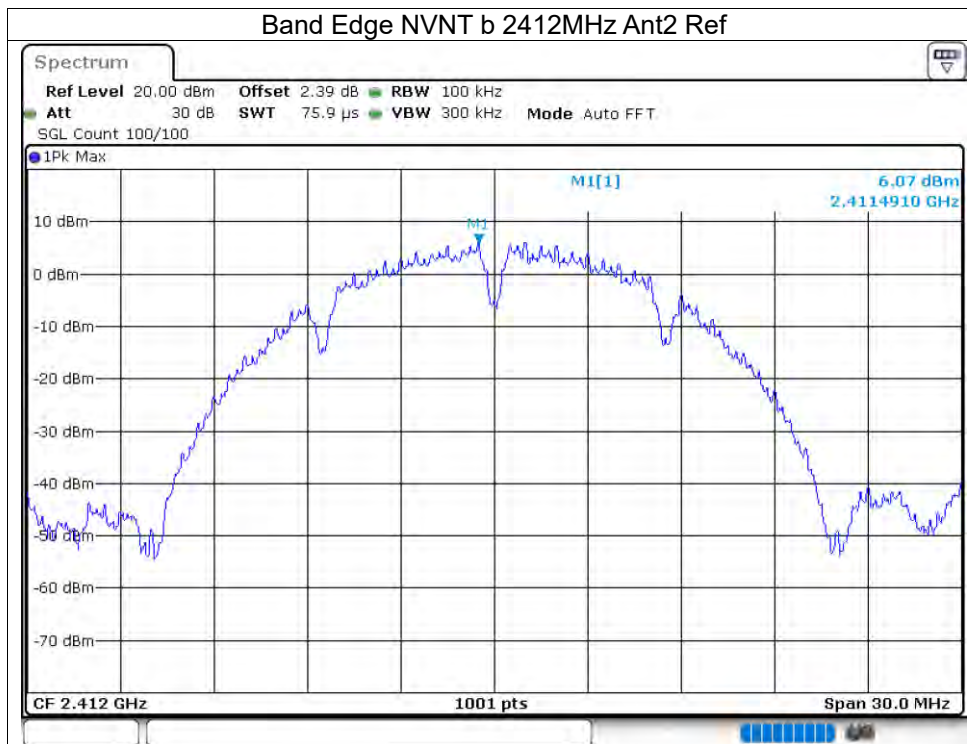


Band Edge NVNT b 2462MHz Ant1 Ref

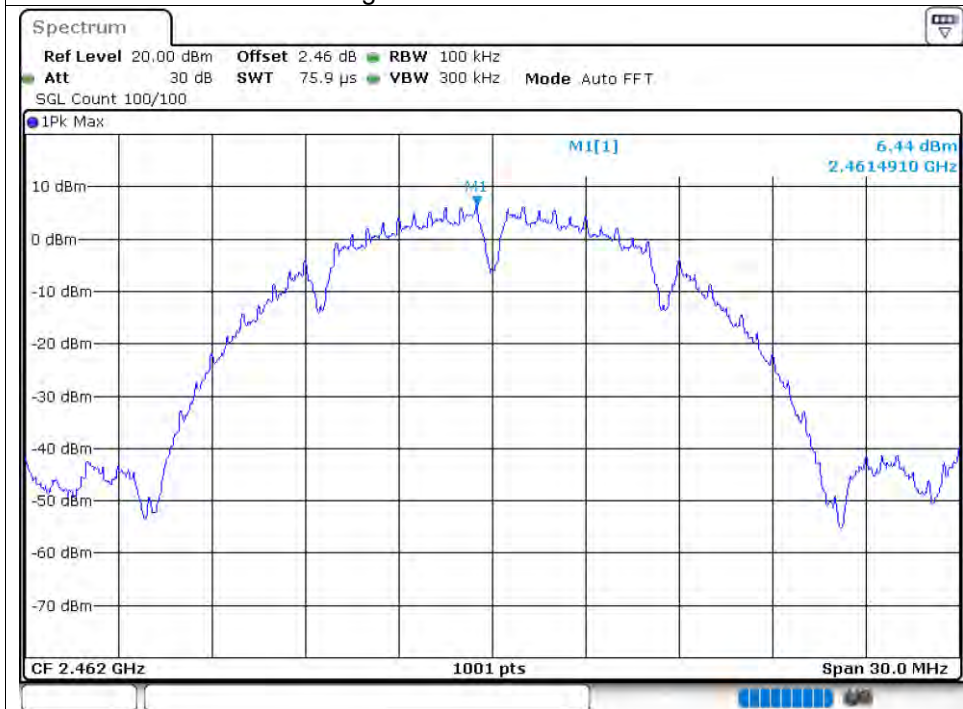


Band Edge NVNT b 2462MHz Ant1 Emission

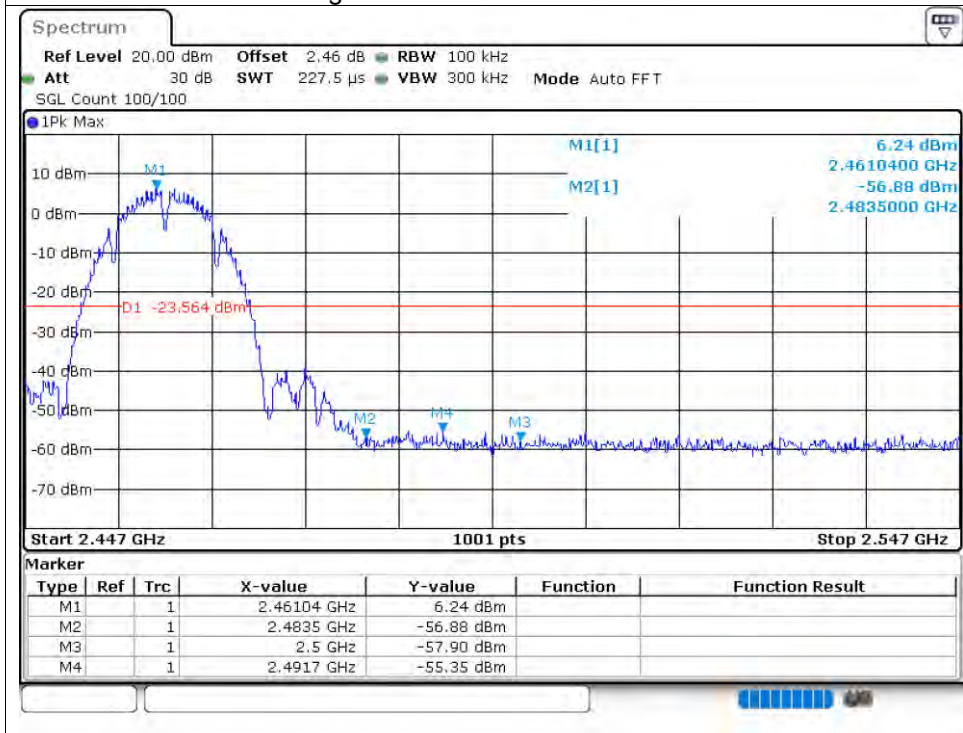


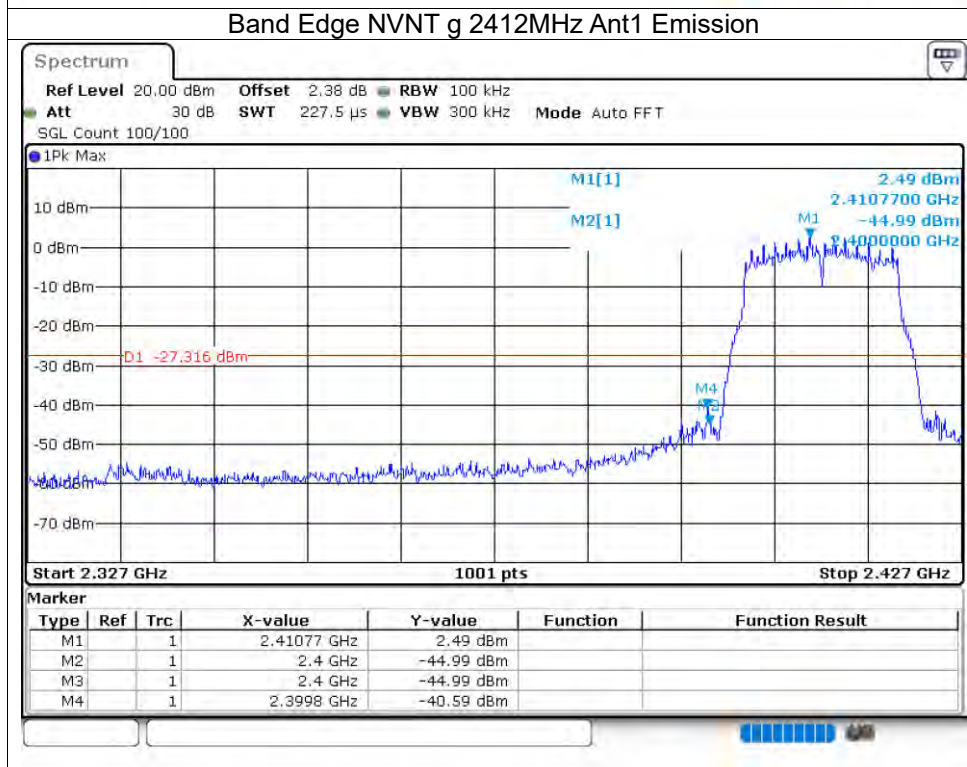
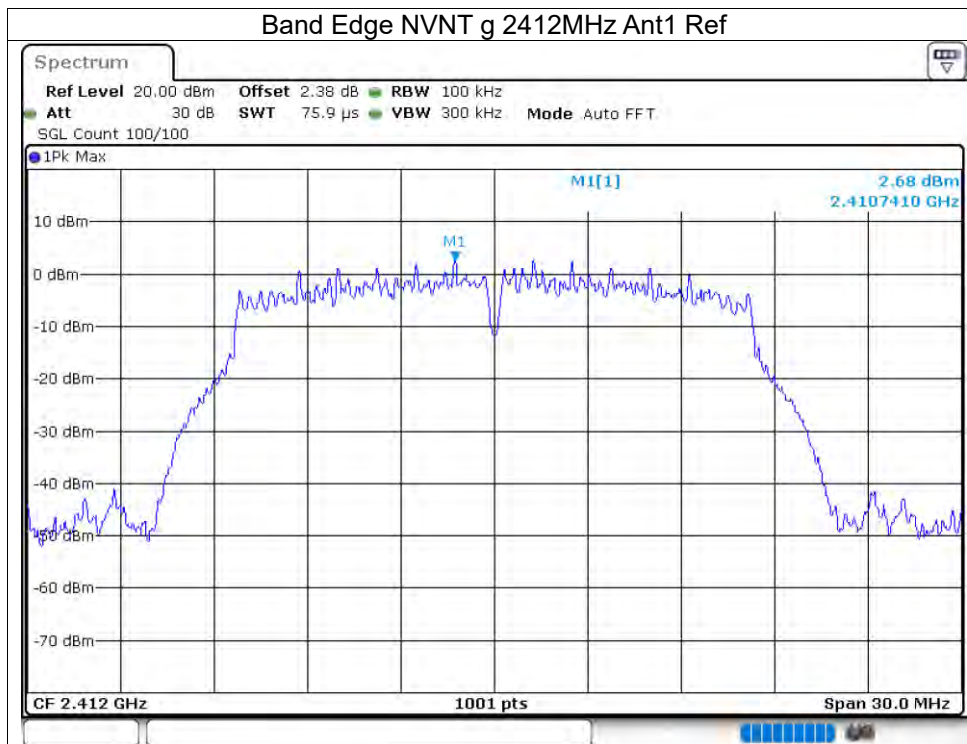


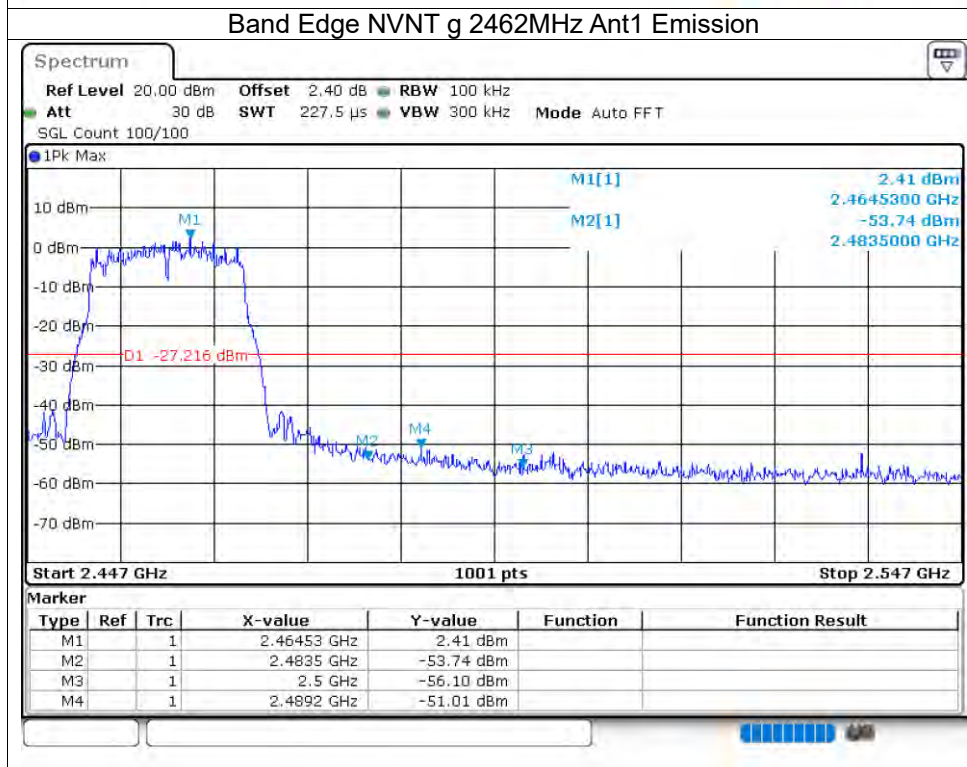
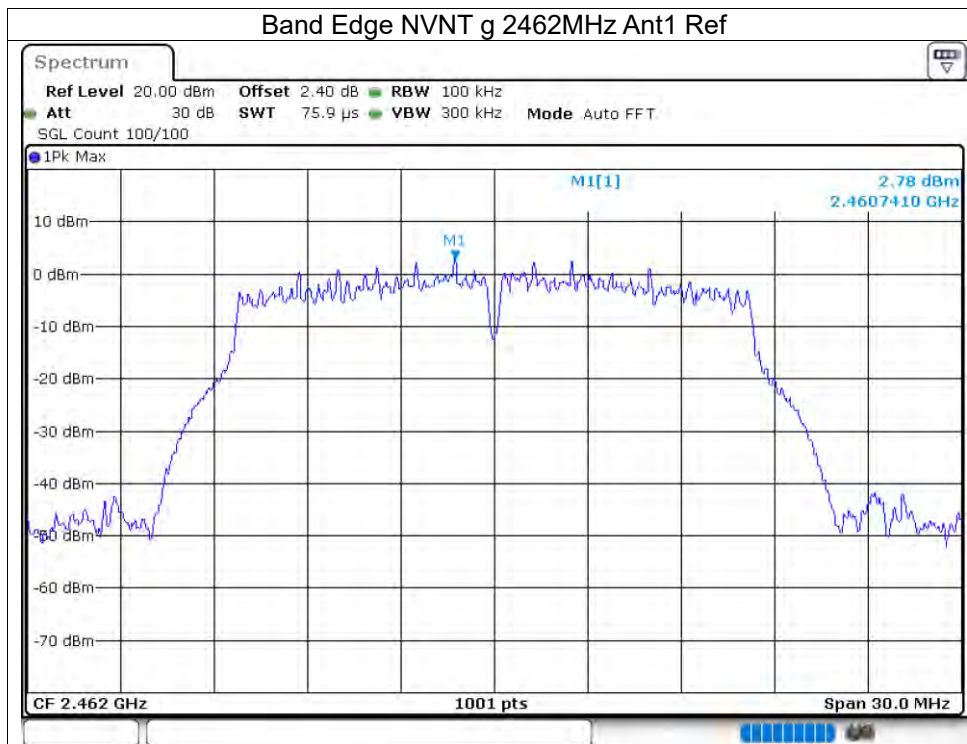
Band Edge NVNT b 2462MHz Ant2 Ref

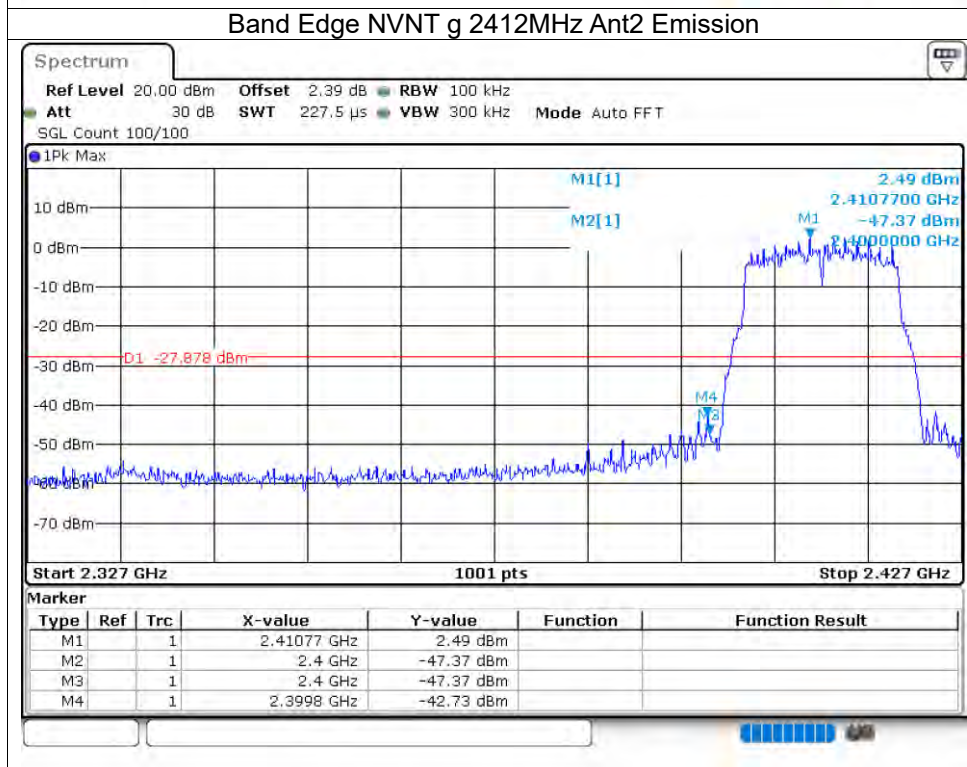
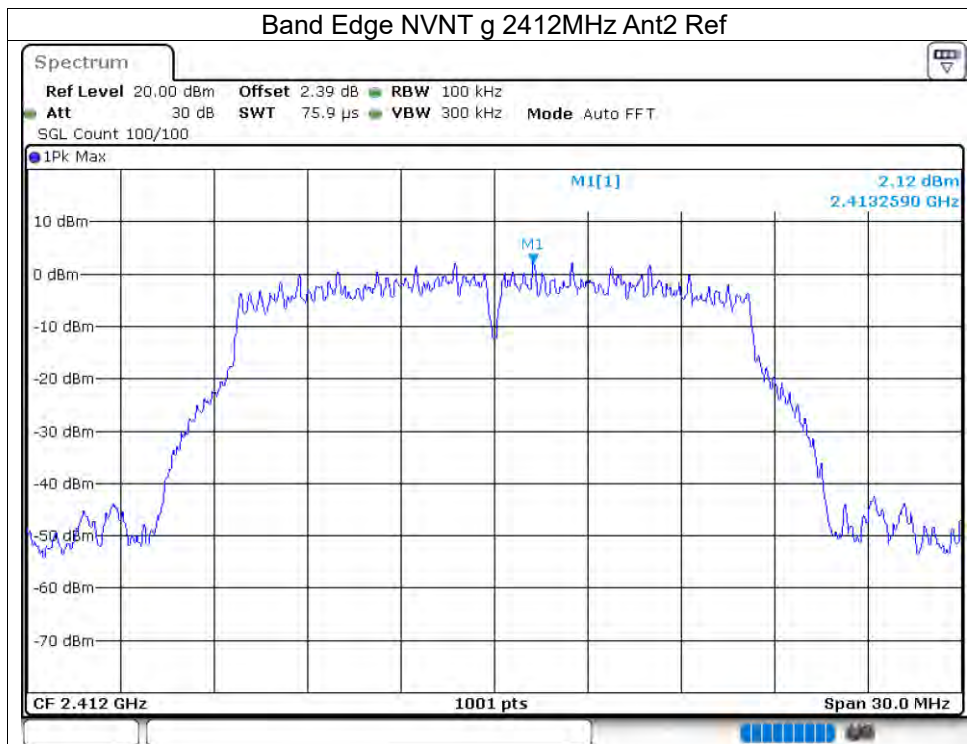


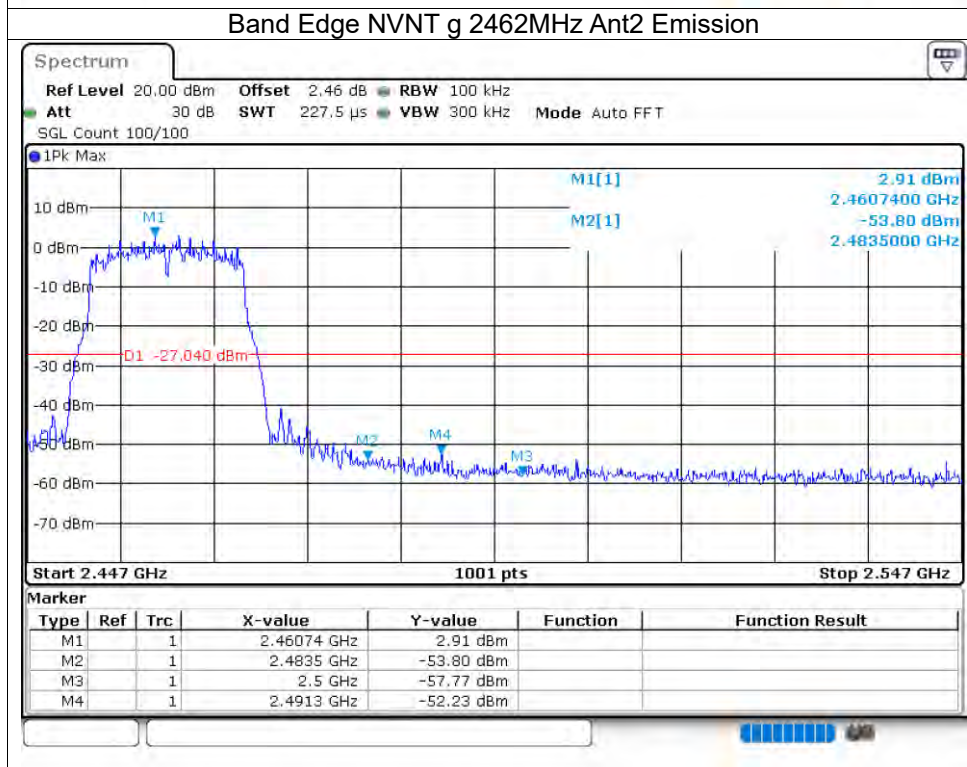
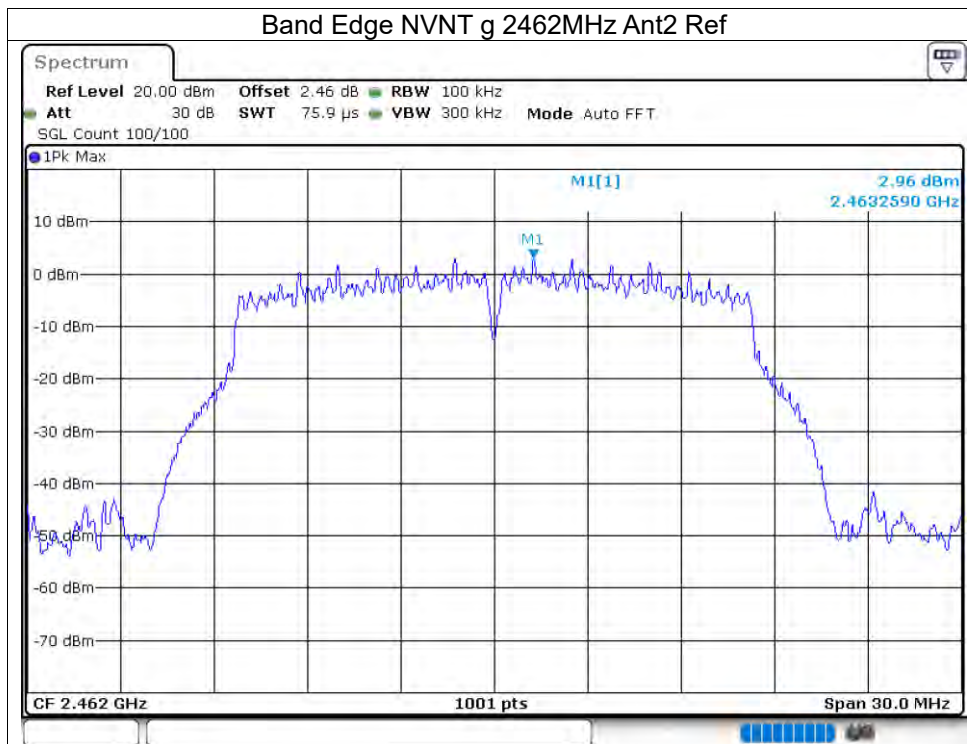
Band Edge NVNT b 2462MHz Ant2 Emission



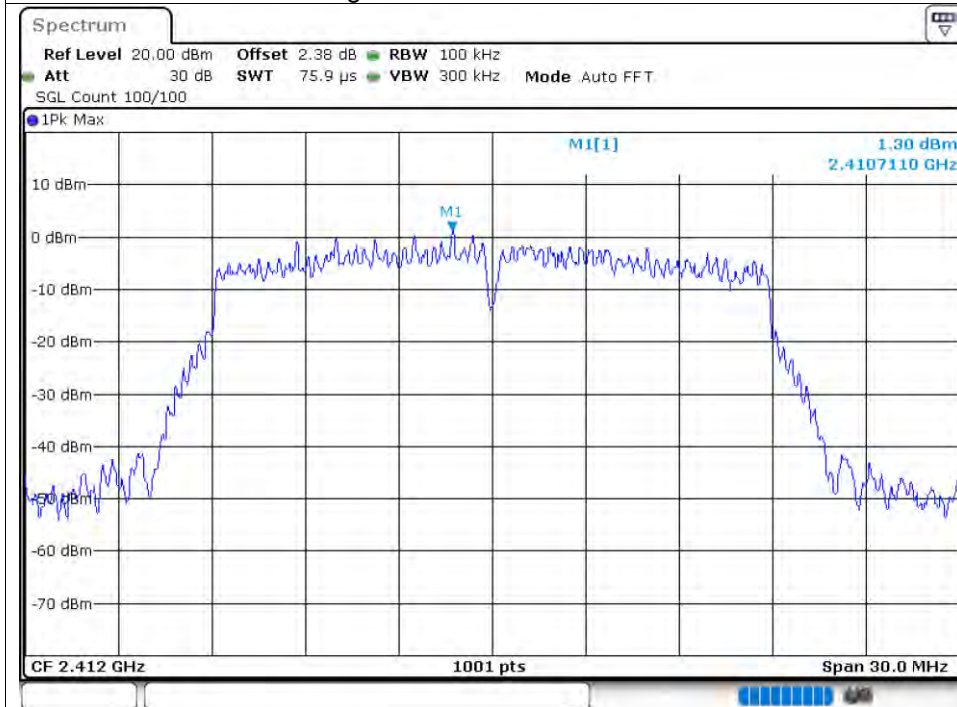




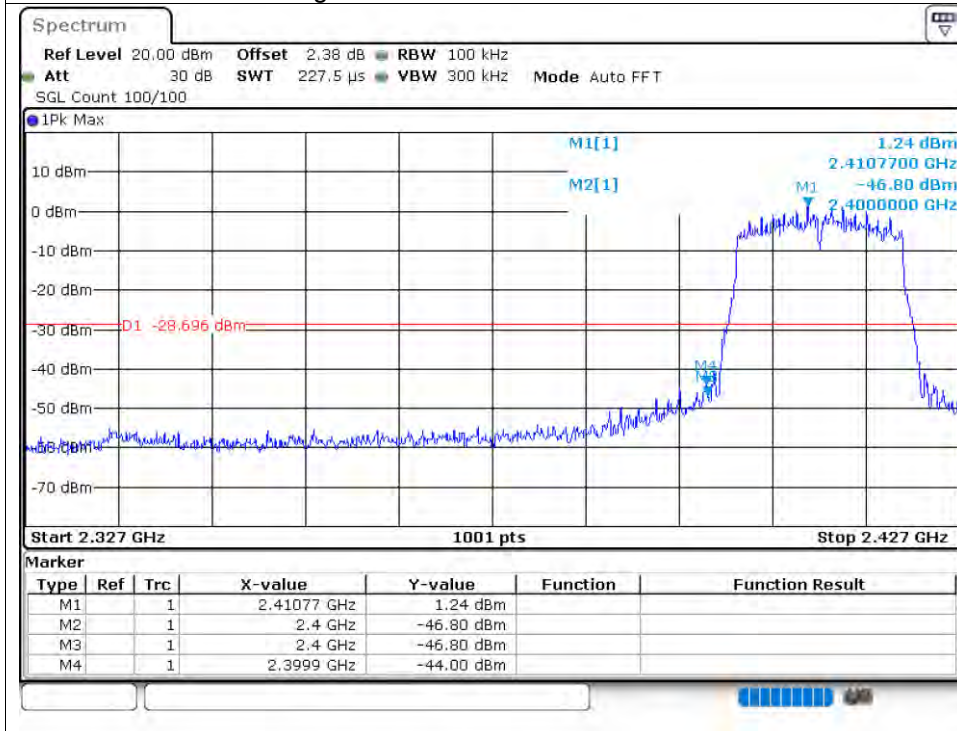




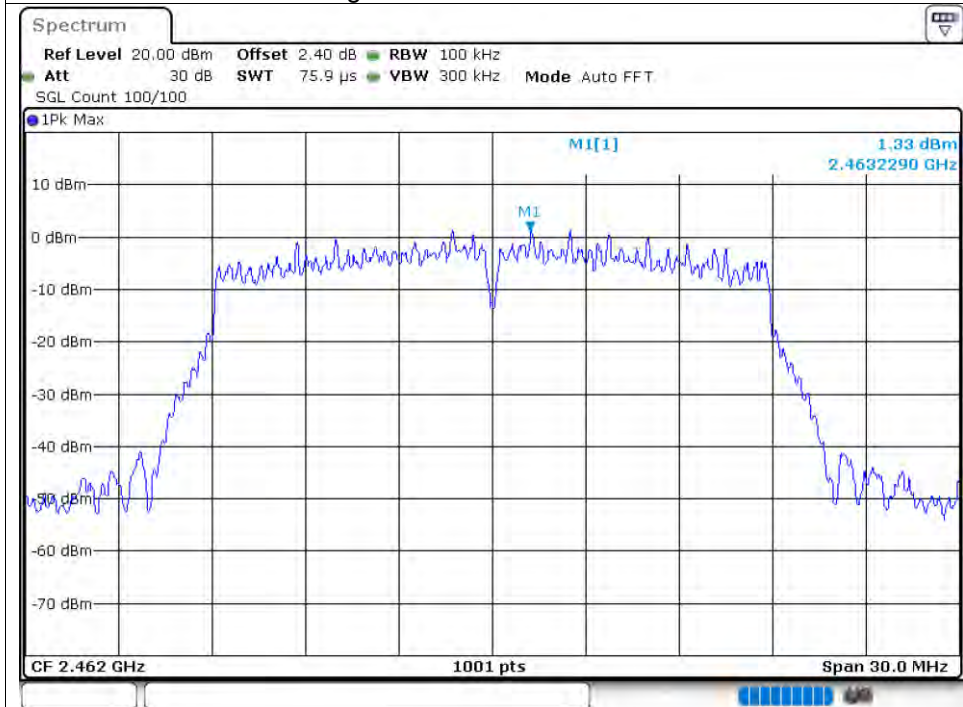
Band Edge NVNT n20 2412MHz Ant1 Ref



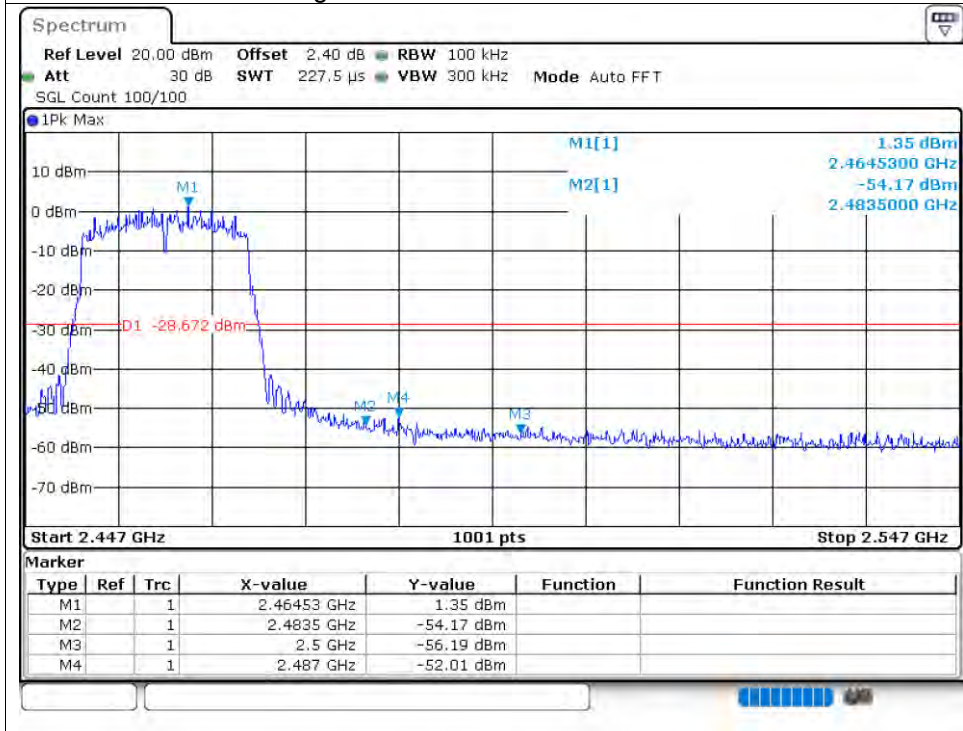
Band Edge NVNT n20 2412MHz Ant1 Emission



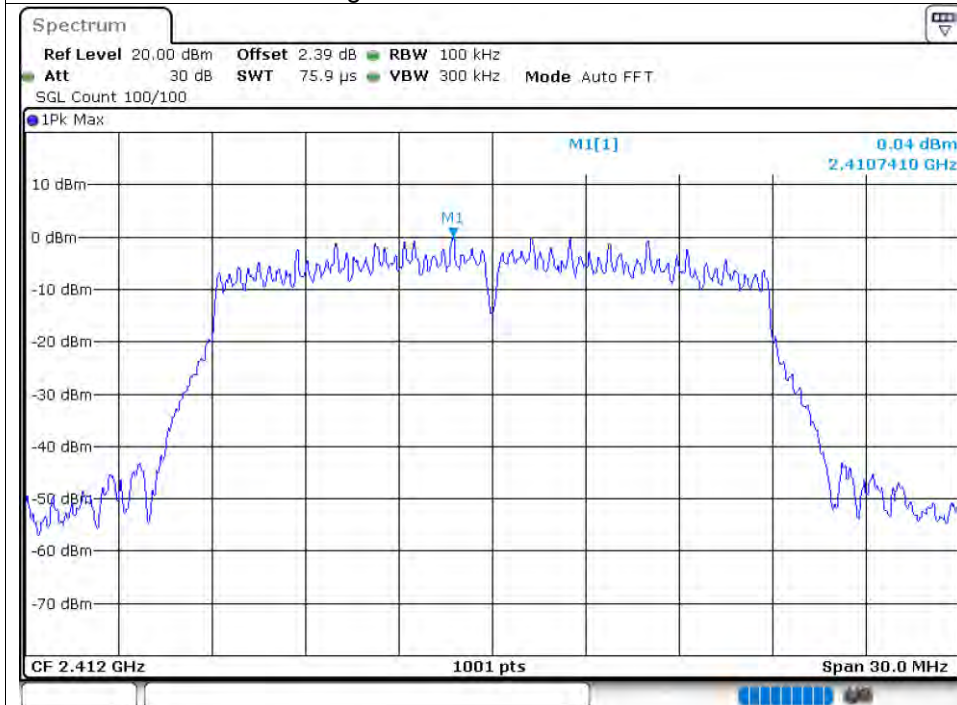
Band Edge NVNT n20 2462MHz Ant1 Ref



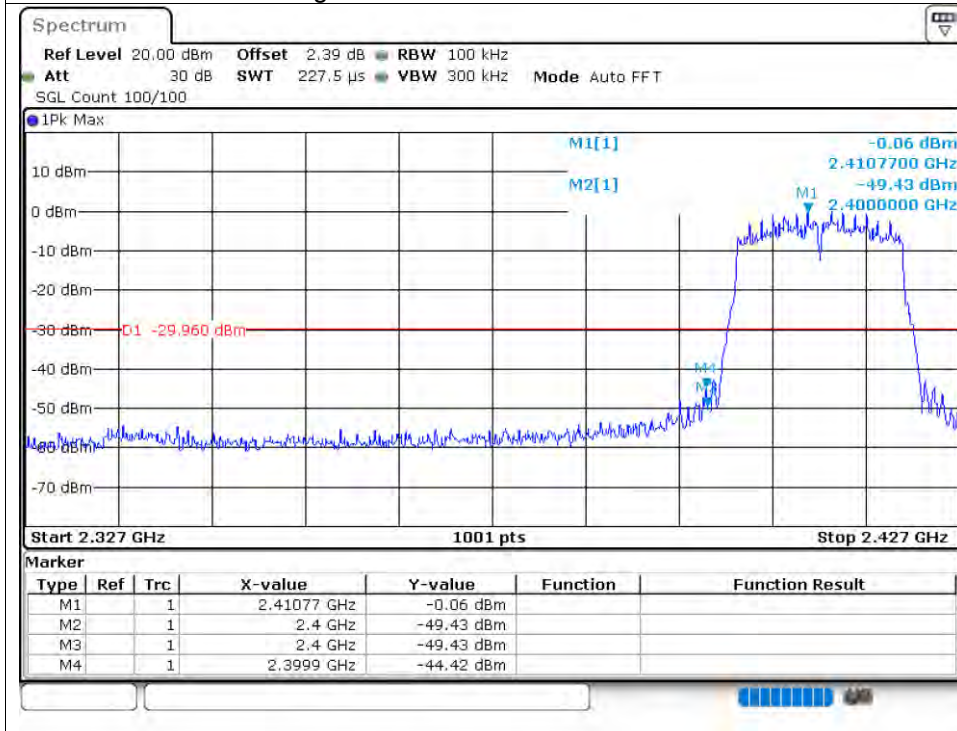
Band Edge NVNT n20 2462MHz Ant1 Emission



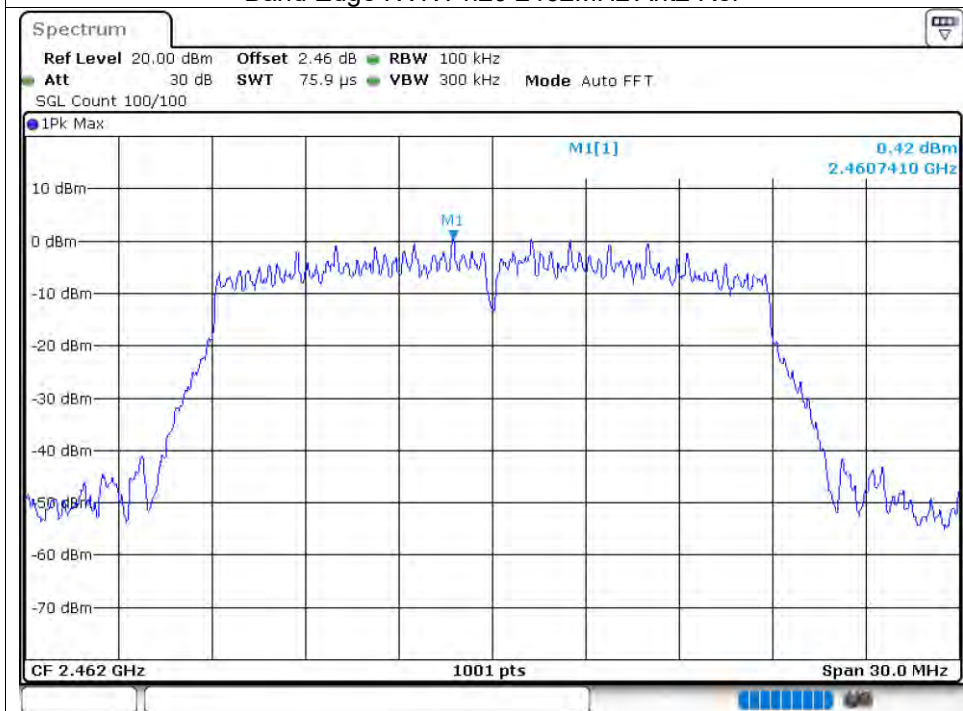
Band Edge NVNT n20 2412MHz Ant2 Ref



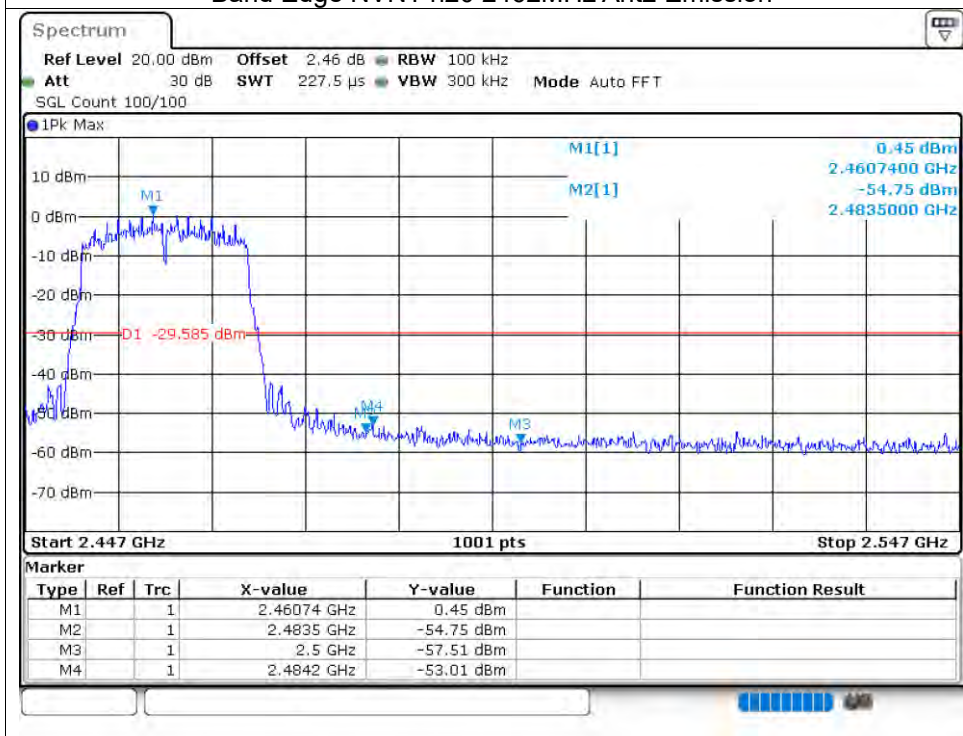
Band Edge NVNT n20 2412MHz Ant2 Emission



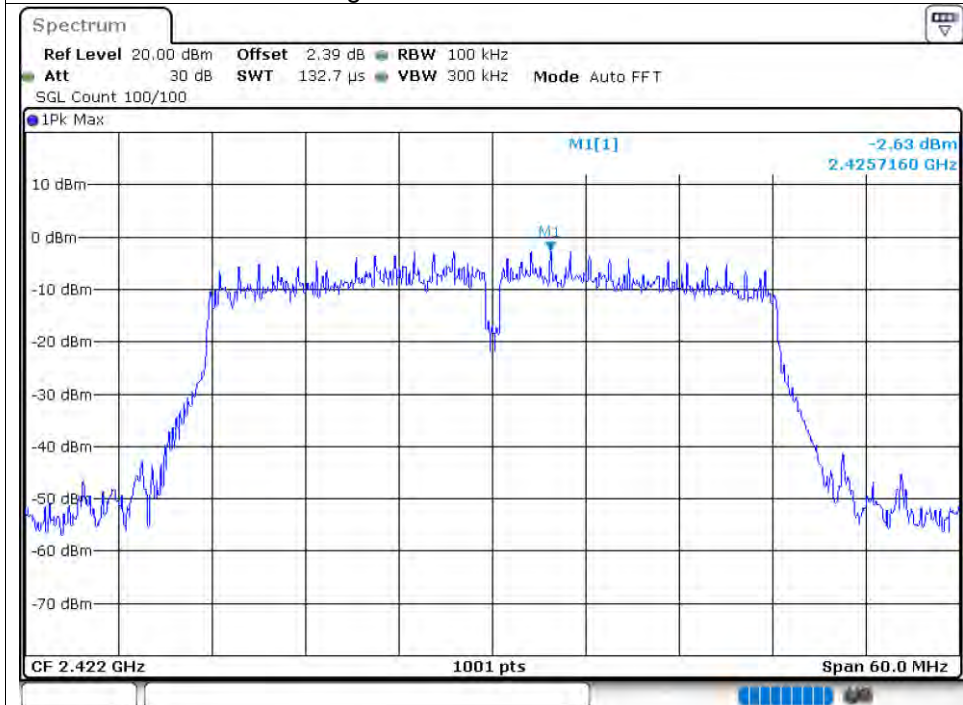
Band Edge NVNT n20 2462MHz Ant2 Ref



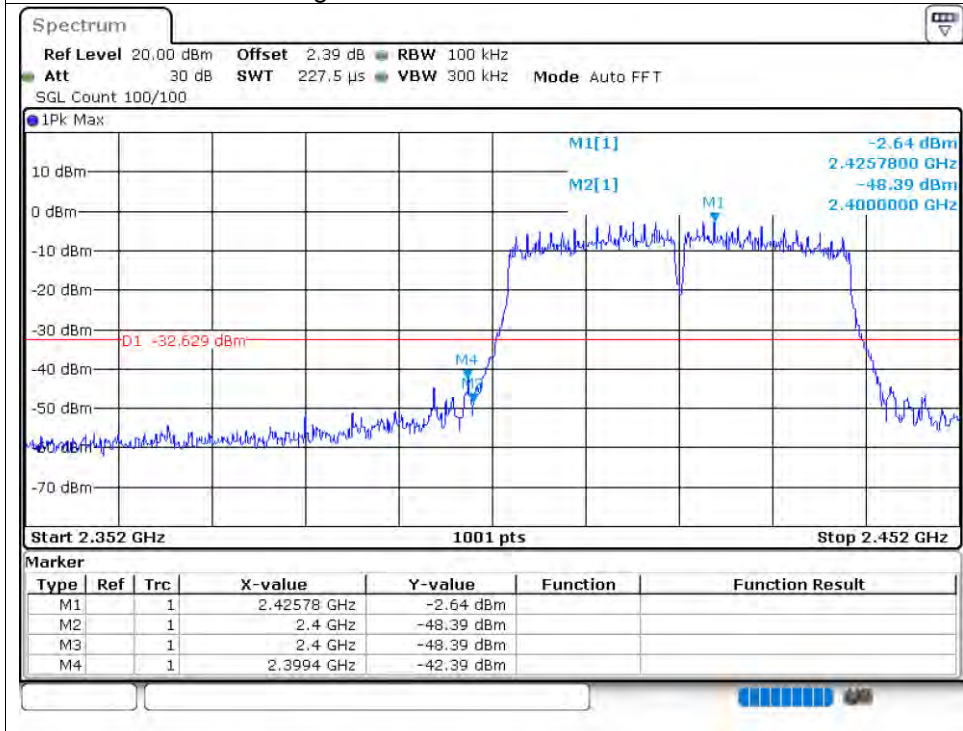
Band Edge NVNT n20 2462MHz Ant2 Emission



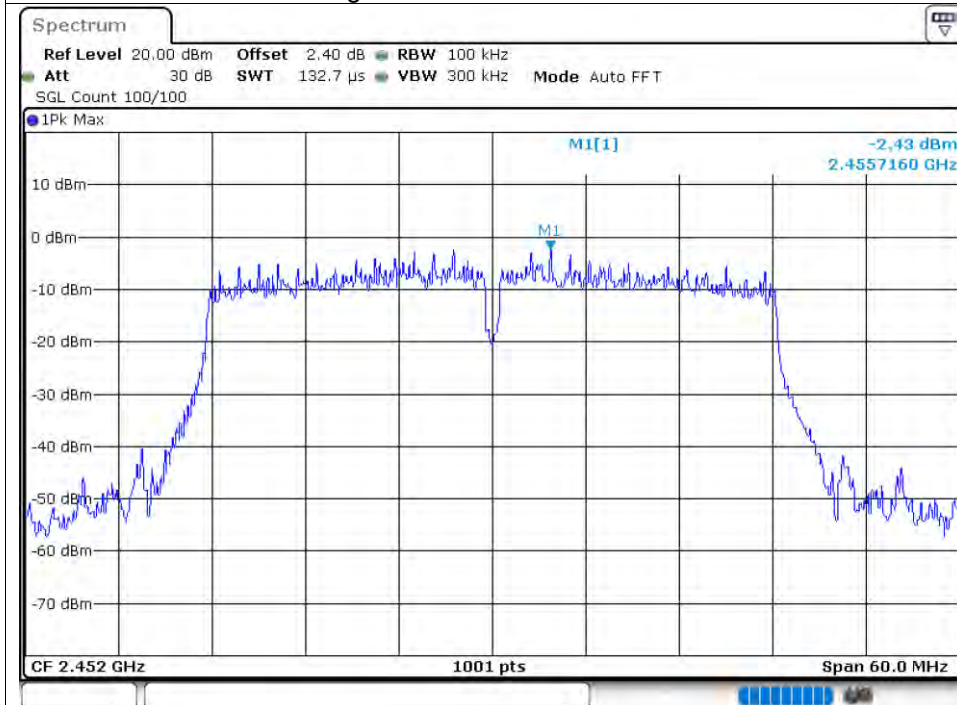
Band Edge NVNT n40 2422MHz Ant1 Ref



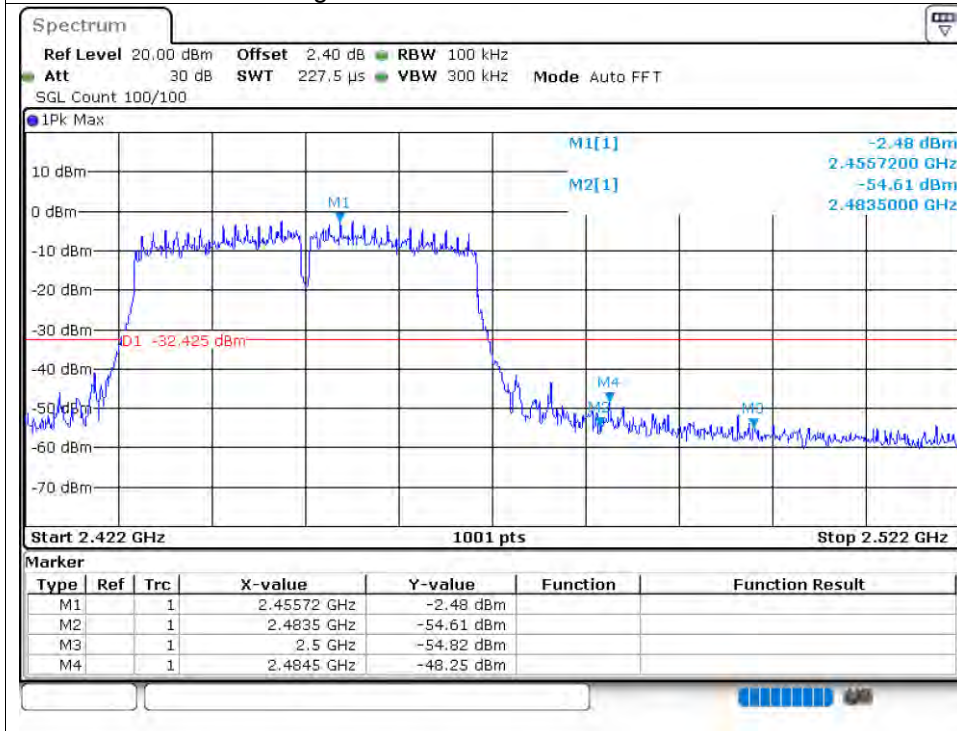
Band Edge NVNT n40 2422MHz Ant1 Emission



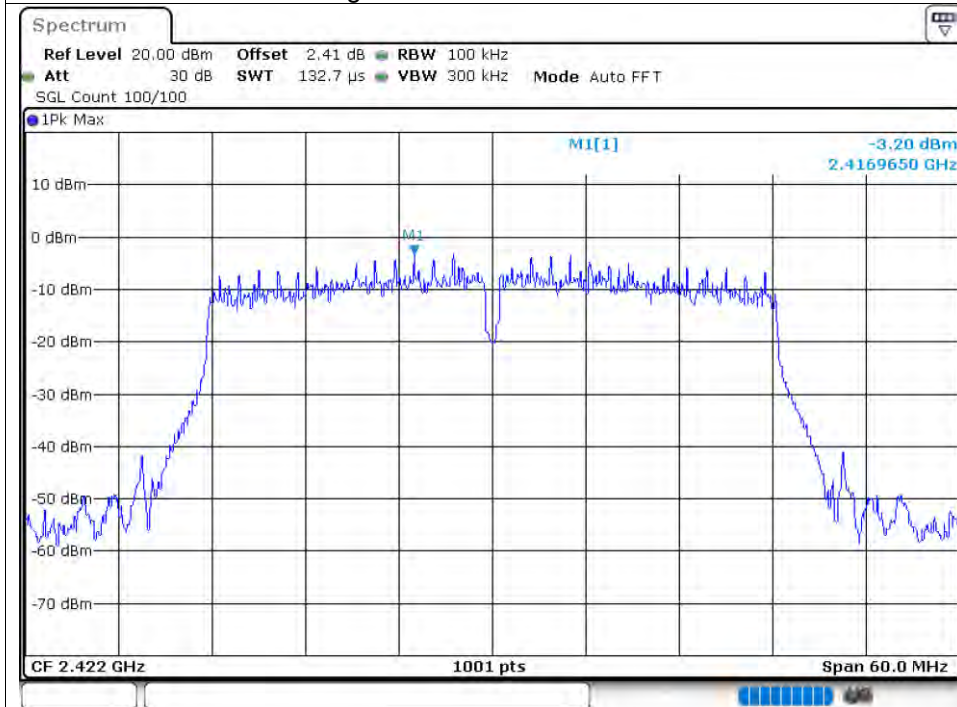
Band Edge NVNT n40 2452MHz Ant1 Ref



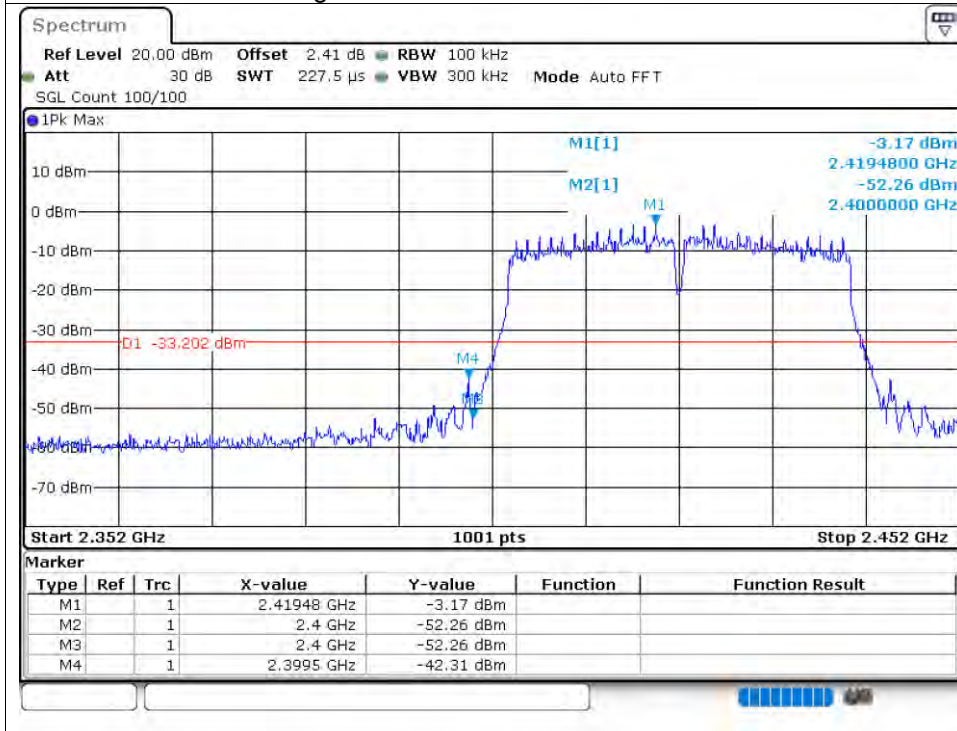
Band Edge NVNT n40 2452MHz Ant1 Emission



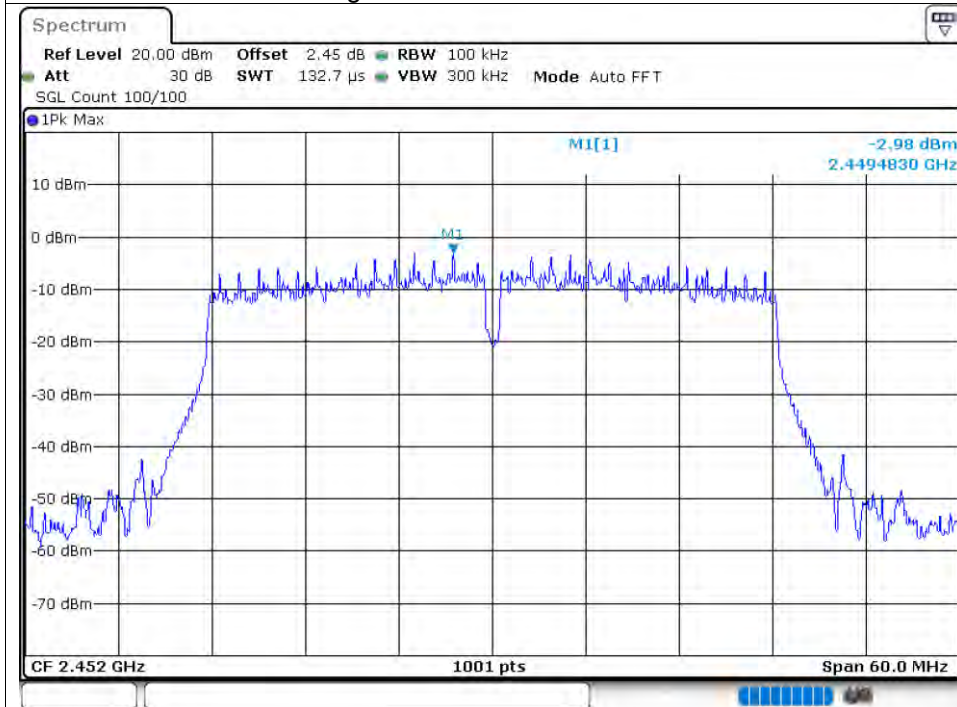
Band Edge NVNT n40 2422MHz Ant2 Ref



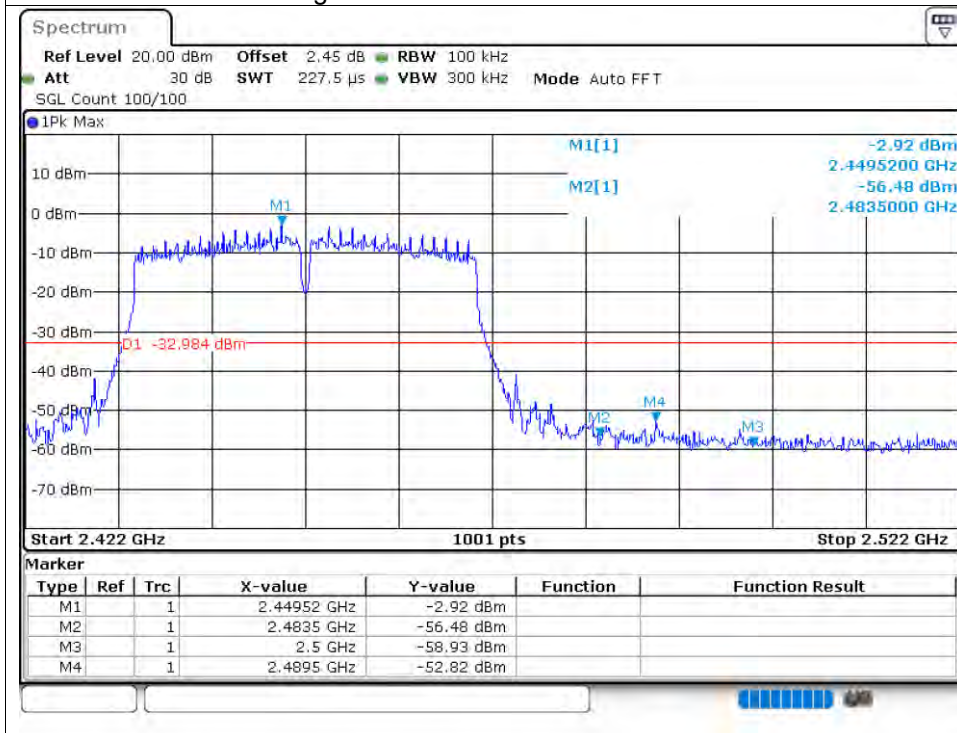
Band Edge NVNT n40 2422MHz Ant2 Emission



Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission

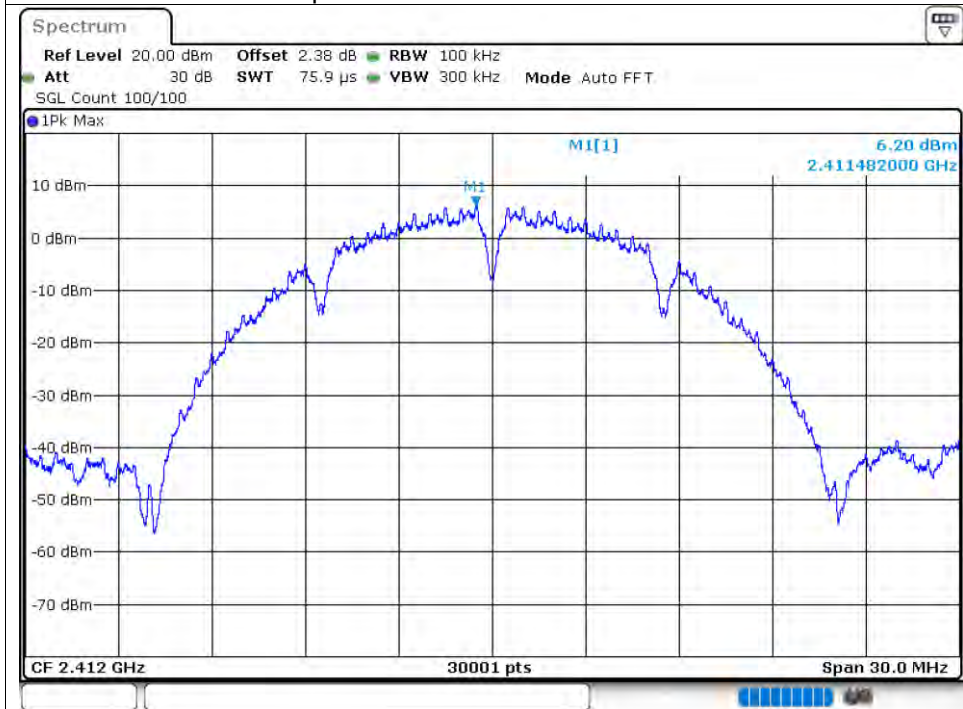


8.1.7 Conducted RF Spurious Emission

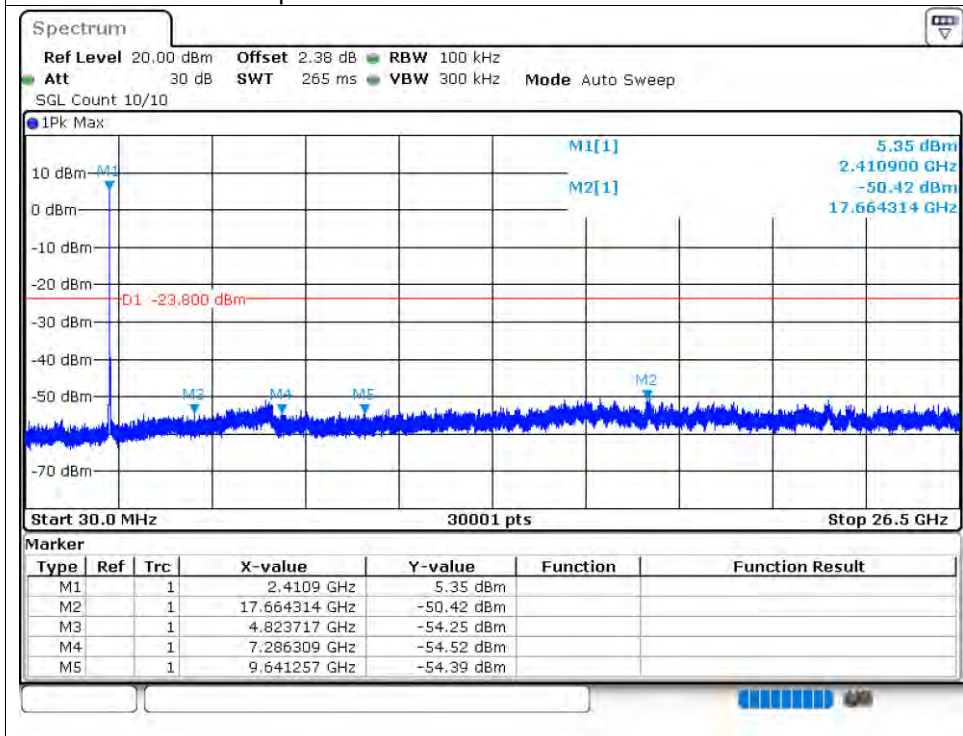
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-56.62	-30	Pass
NVNT	b	2437	Ant1	-49.53	-30	Pass
NVNT	b	2462	Ant1	-56.82	-30	Pass
NVNT	b	2412	Ant2	-56.94	-30	Pass
NVNT	b	2437	Ant2	-56.13	-30	Pass
NVNT	b	2462	Ant2	-57.18	-30	Pass
NVNT	g	2412	Ant1	-53.26	-30	Pass
NVNT	g	2437	Ant1	-53.36	-30	Pass
NVNT	g	2462	Ant1	-52.81	-30	Pass
NVNT	g	2412	Ant2	-52.71	-30	Pass
NVNT	g	2437	Ant2	-52.22	-30	Pass
NVNT	g	2462	Ant2	-53.31	-30	Pass
NVNT	n20	2412	Ant1	-50.14	-30	Pass
NVNT	n20	2437	Ant1	-51.36	-30	Pass
NVNT	n20	2462	Ant1	-51.75	-30	Pass
NVNT	n20	2412	Ant2	-49.91	-30	Pass
NVNT	n20	2437	Ant2	-50.39	-30	Pass
NVNT	n20	2462	Ant2	-50.68	-30	Pass
NVNT	n40	2422	Ant1	-46.21	-30	Pass
NVNT	n40	2437	Ant1	-47.75	-30	Pass
NVNT	n40	2452	Ant1	-47.07	-30	Pass
NVNT	n40	2422	Ant2	-45.84	-30	Pass
NVNT	n40	2437	Ant2	-45.36	-30	Pass
NVNT	n40	2452	Ant2	-46.23	-30	Pass

Test Graphs

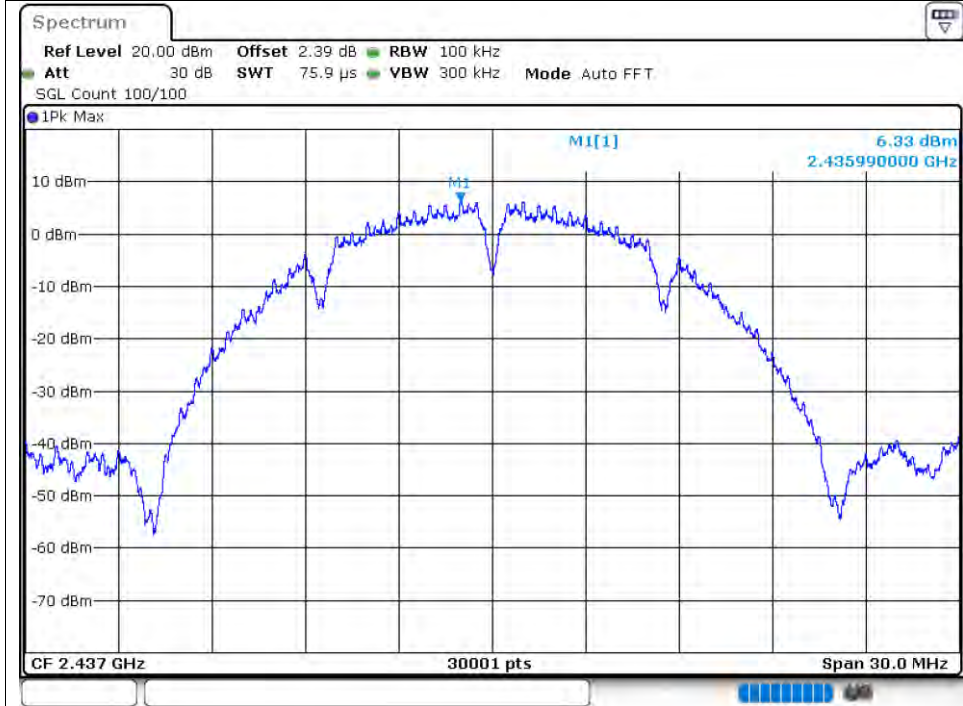
Tx. Spurious NVNT b 2412MHz Ant1 Ref



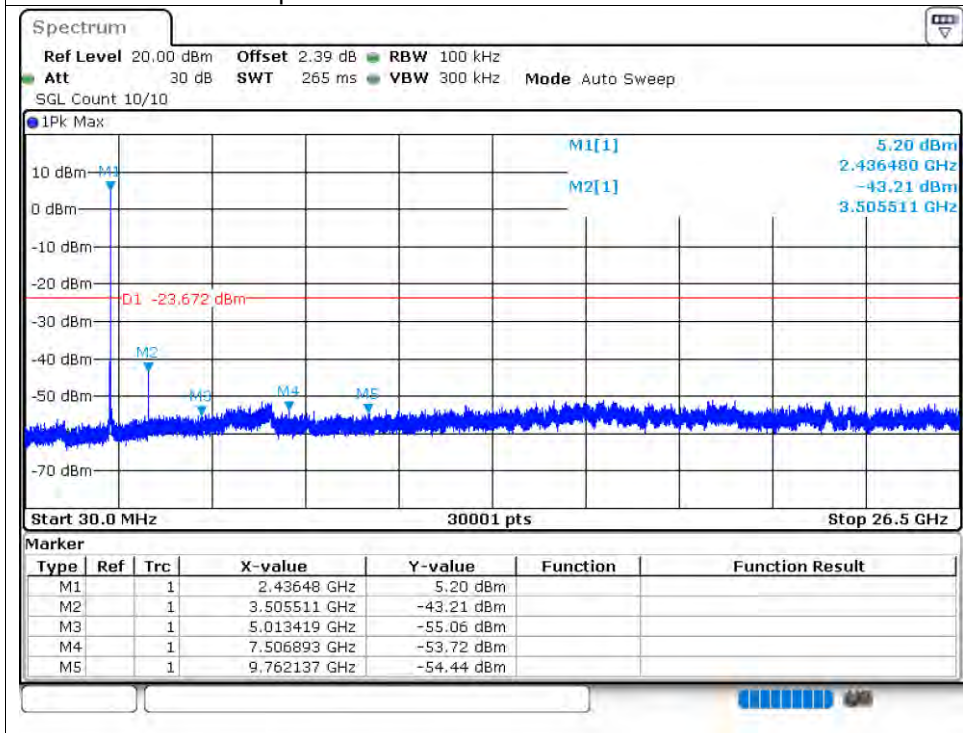
Tx. Spurious NVNT b 2412MHz Ant1 Emission

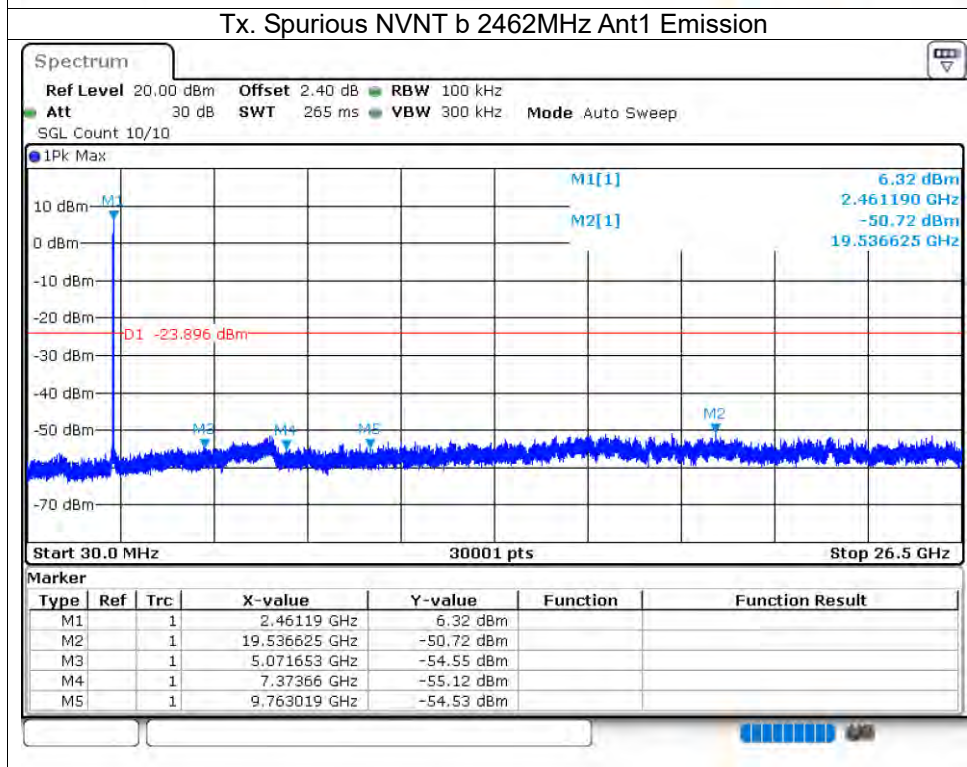
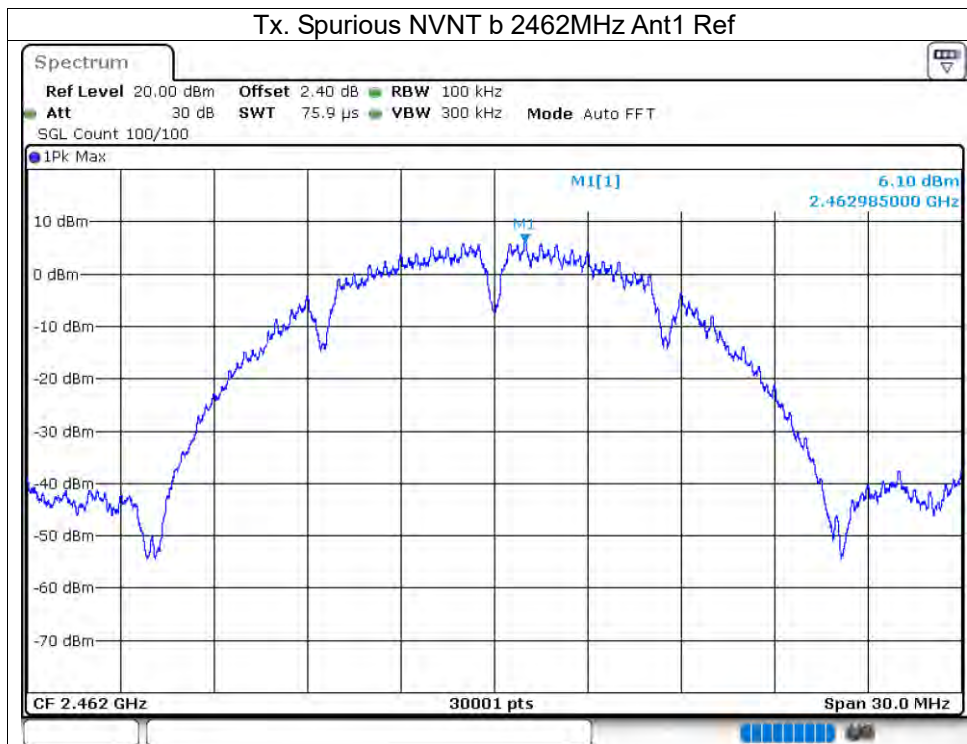


Tx. Spurious NVNT b 2437MHz Ant1 Ref

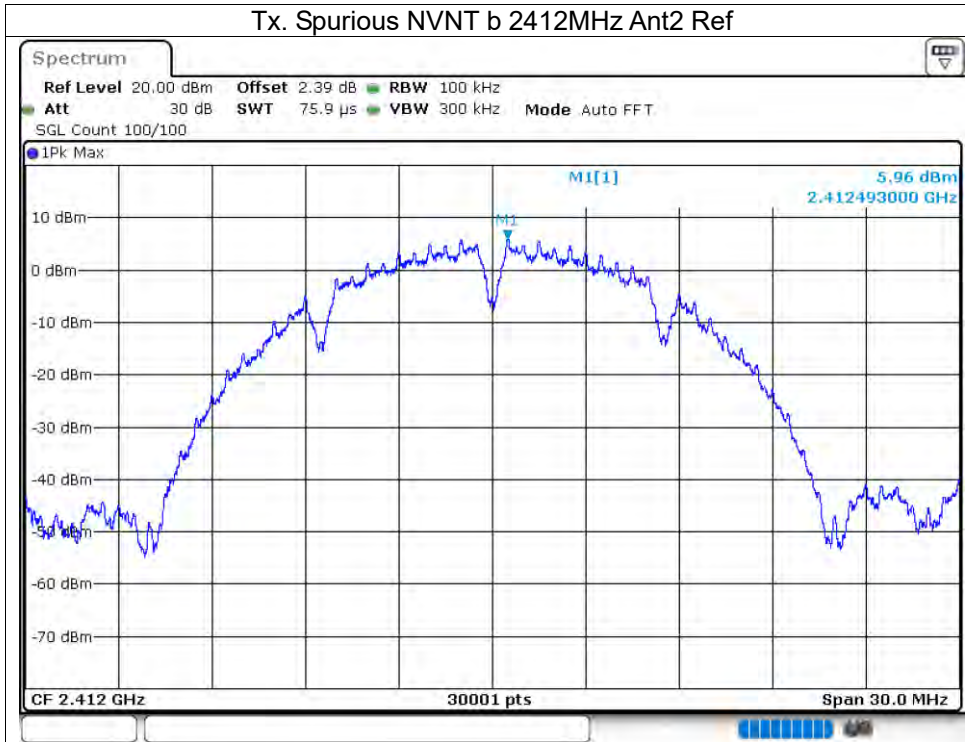


Tx. Spurious NVNT b 2437MHz Ant1 Emission

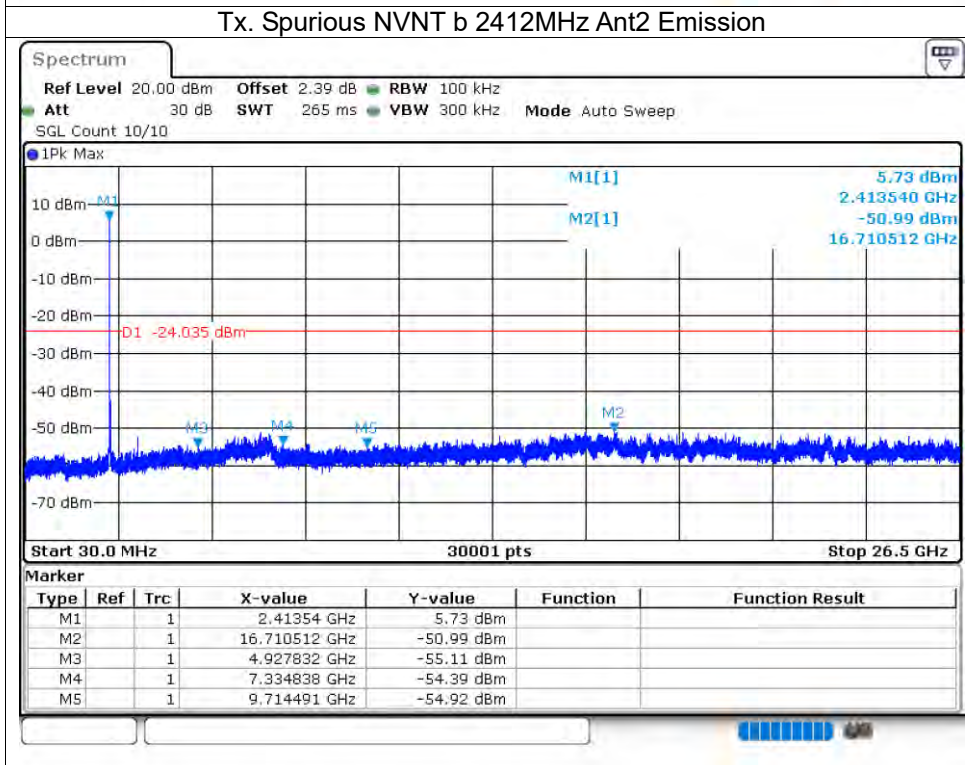




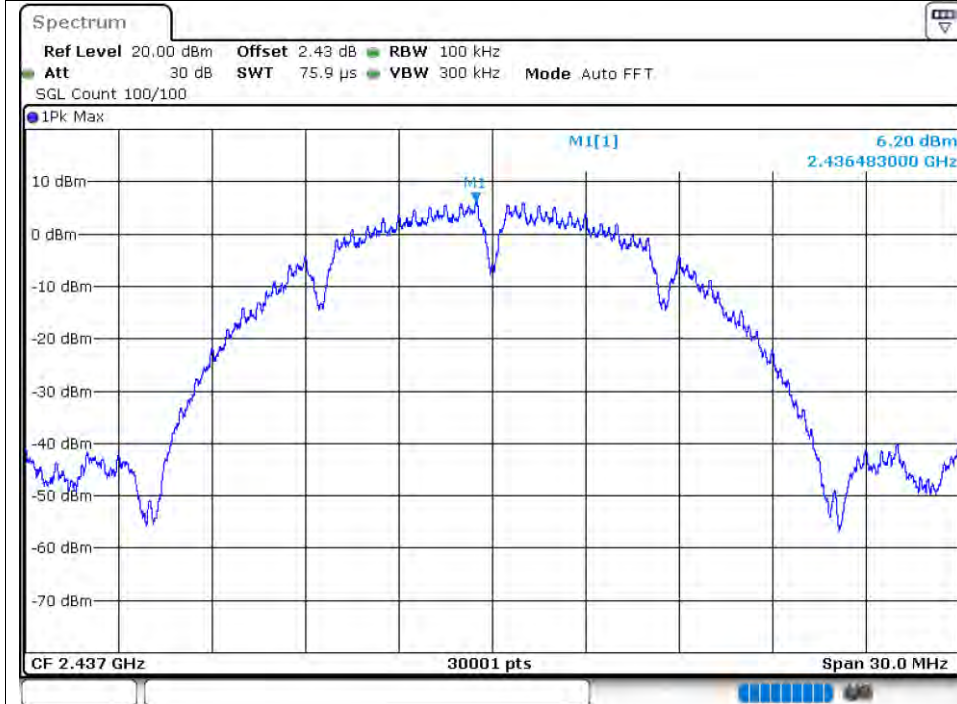
Tx. Spurious NVNT b 2412MHz Ant2 Ref



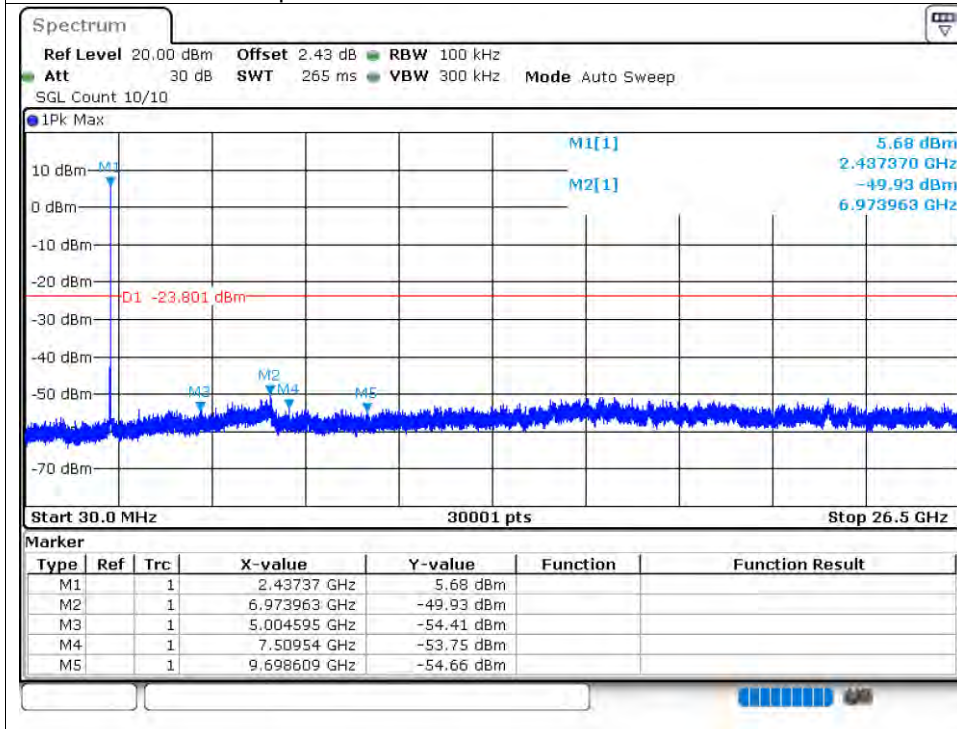
Tx. Spurious NVNT b 2412MHz Ant2 Emission

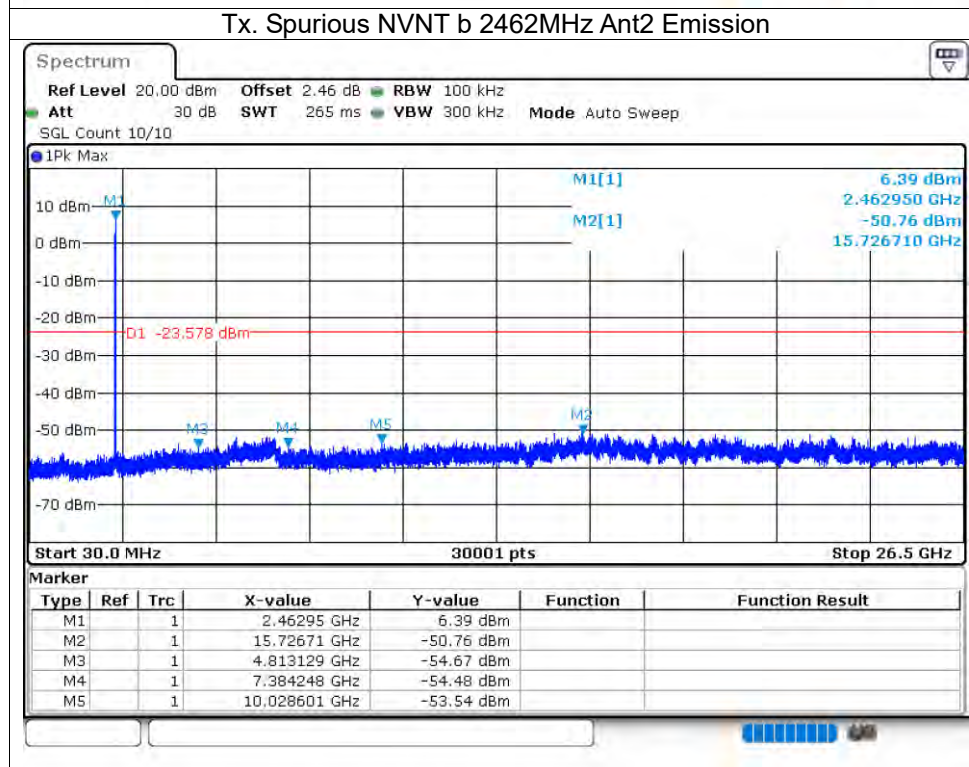
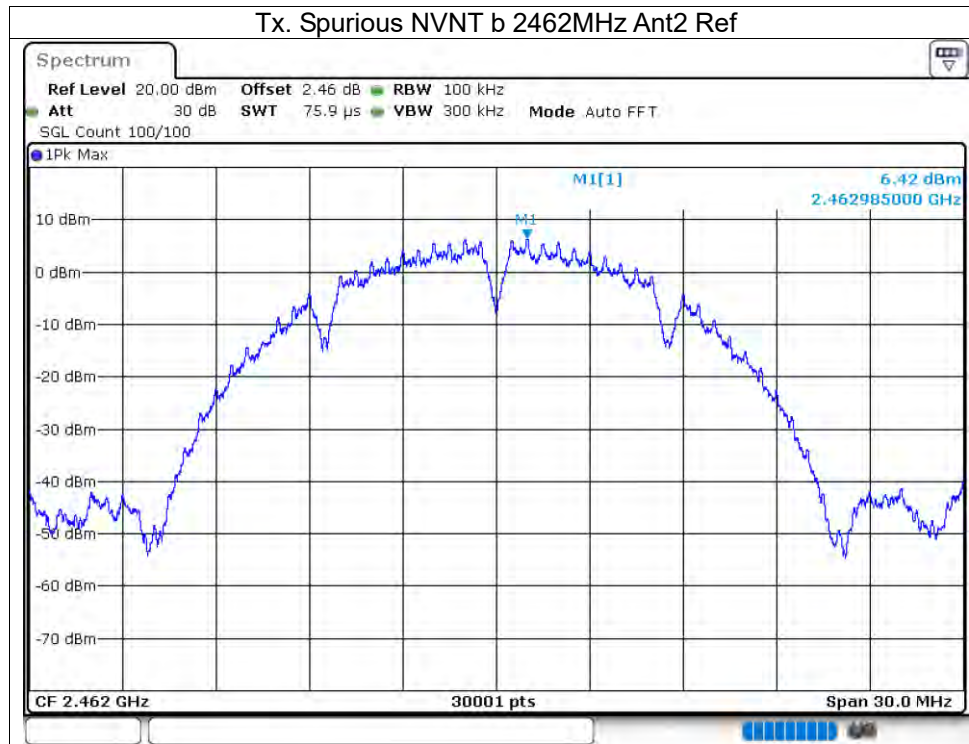


Tx. Spurious NVNT b 2437MHz Ant2 Ref

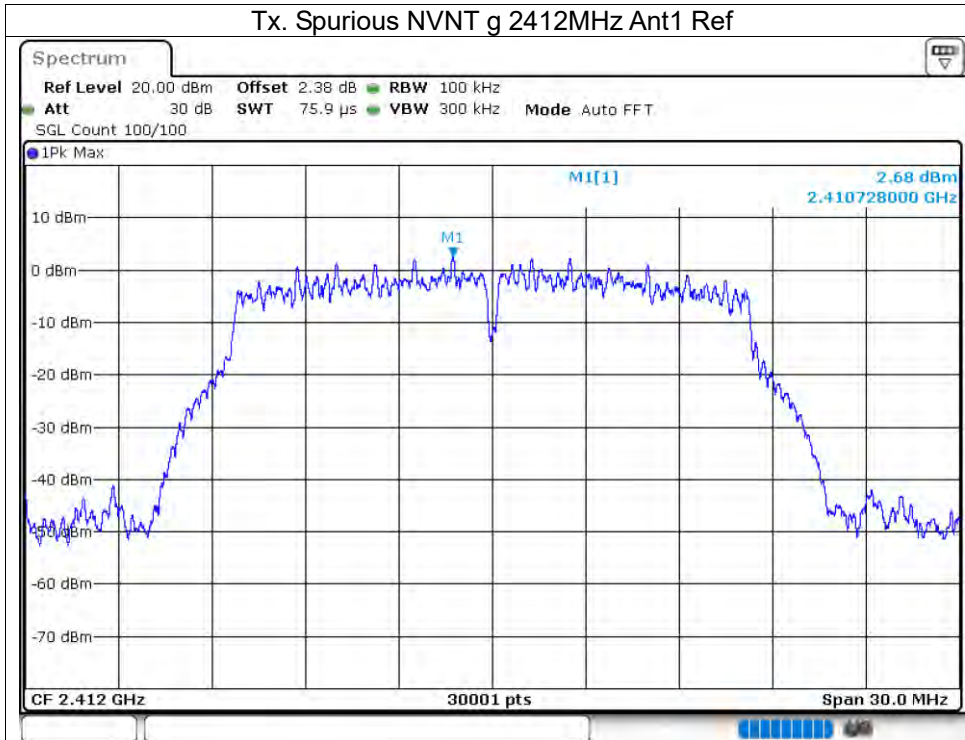


Tx. Spurious NVNT b 2437MHz Ant2 Emission

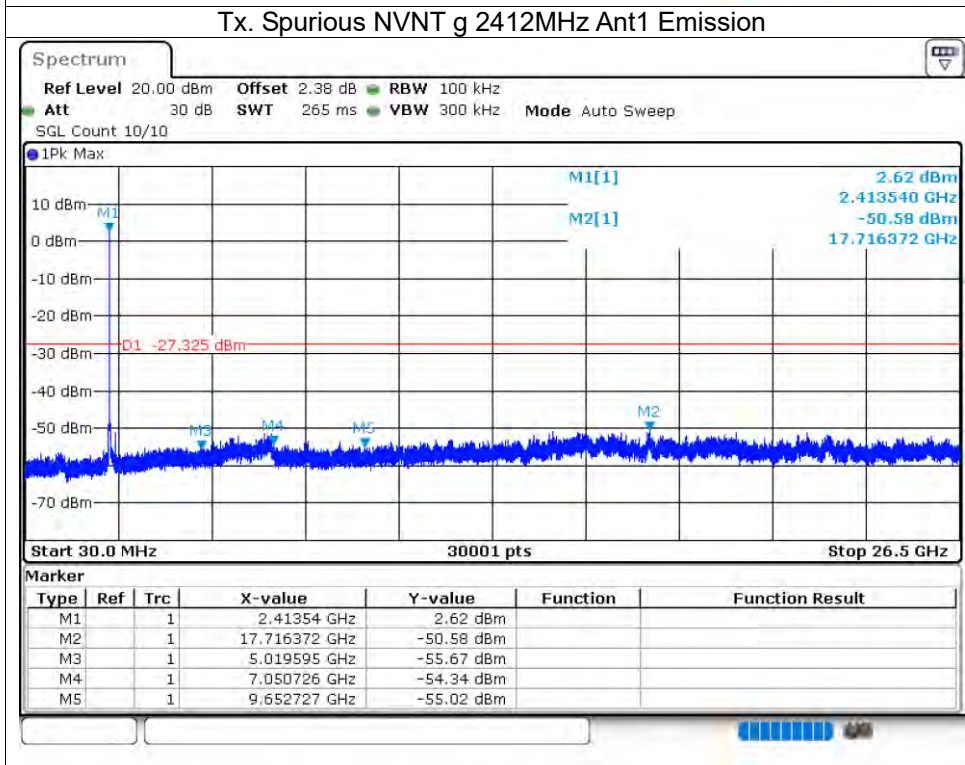




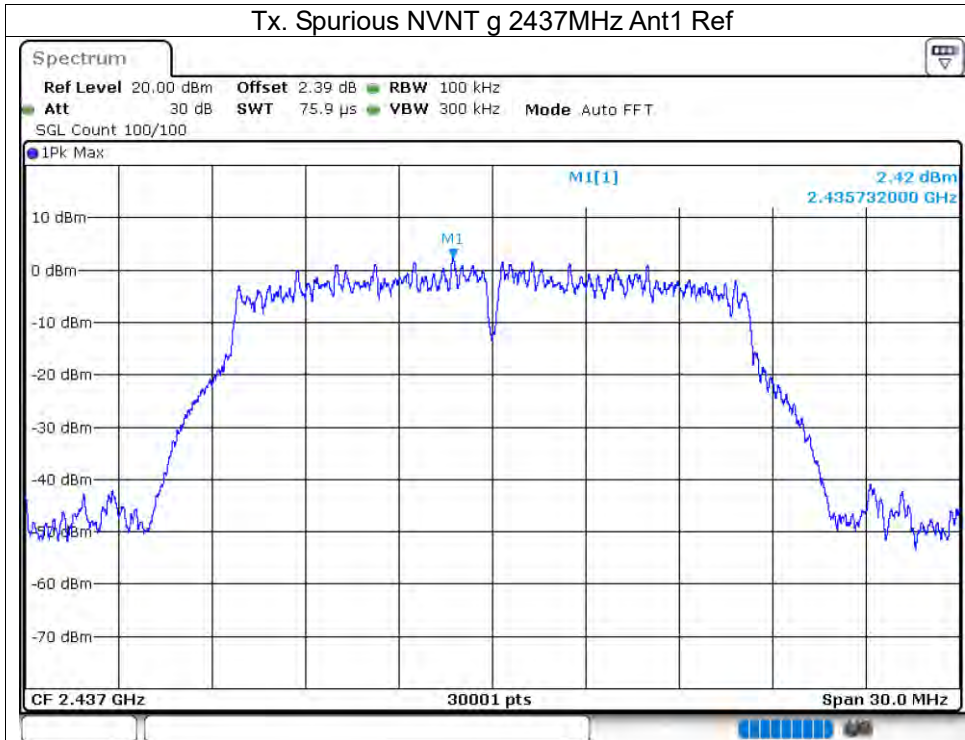
Tx. Spurious NVNT g 2412MHz Ant1 Ref



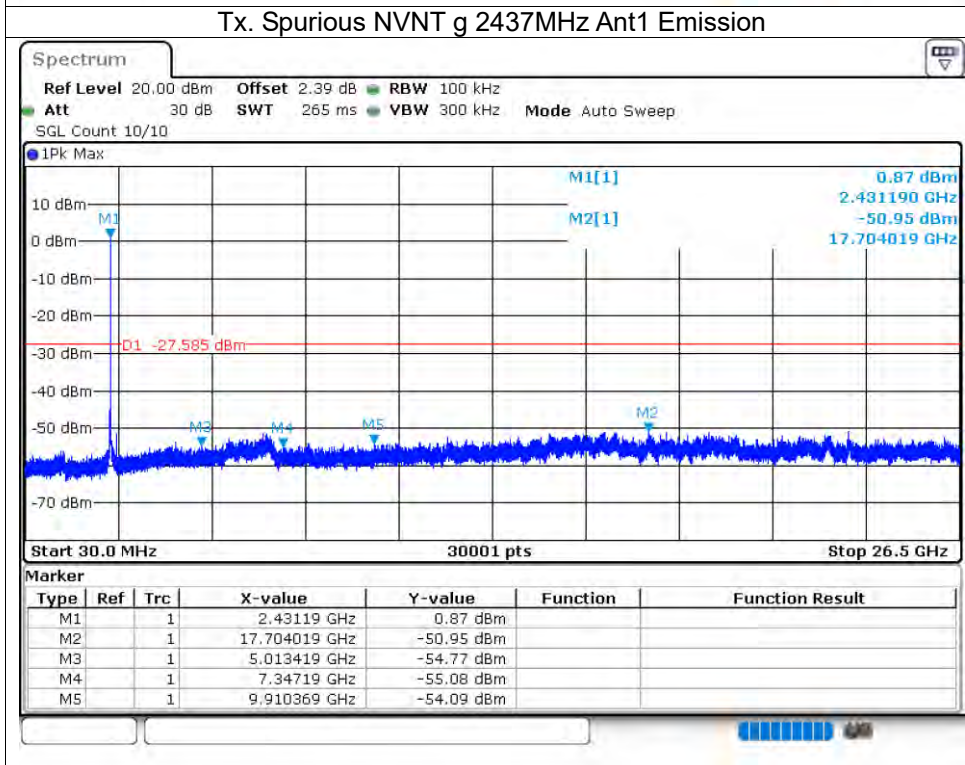
Tx. Spurious NVNT g 2412MHz Ant1 Emission

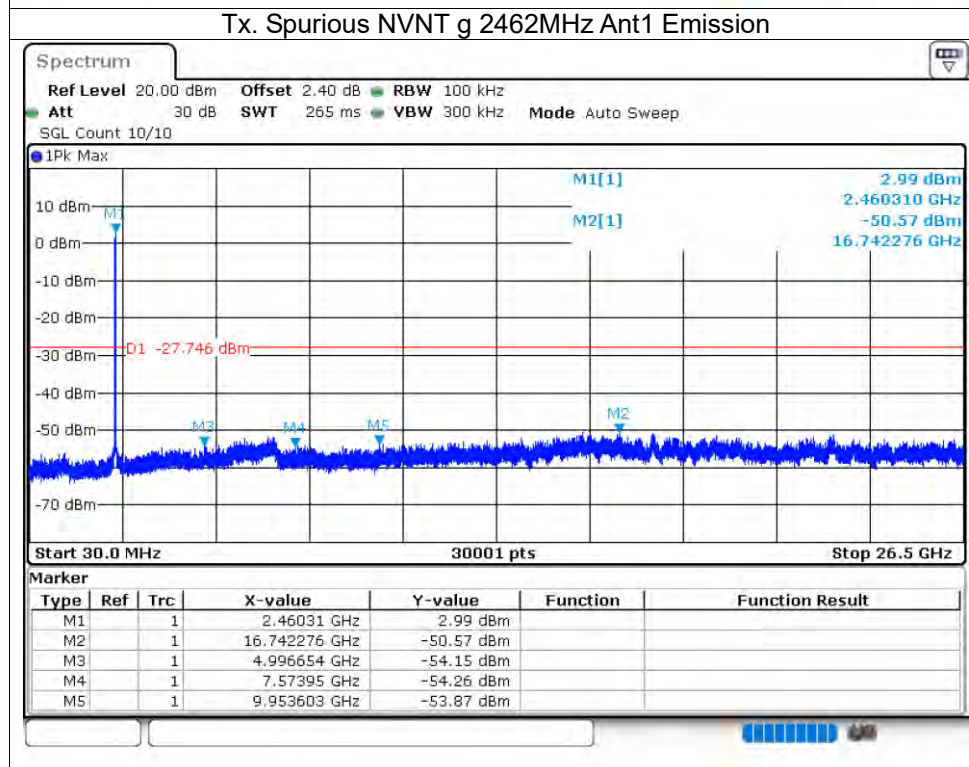
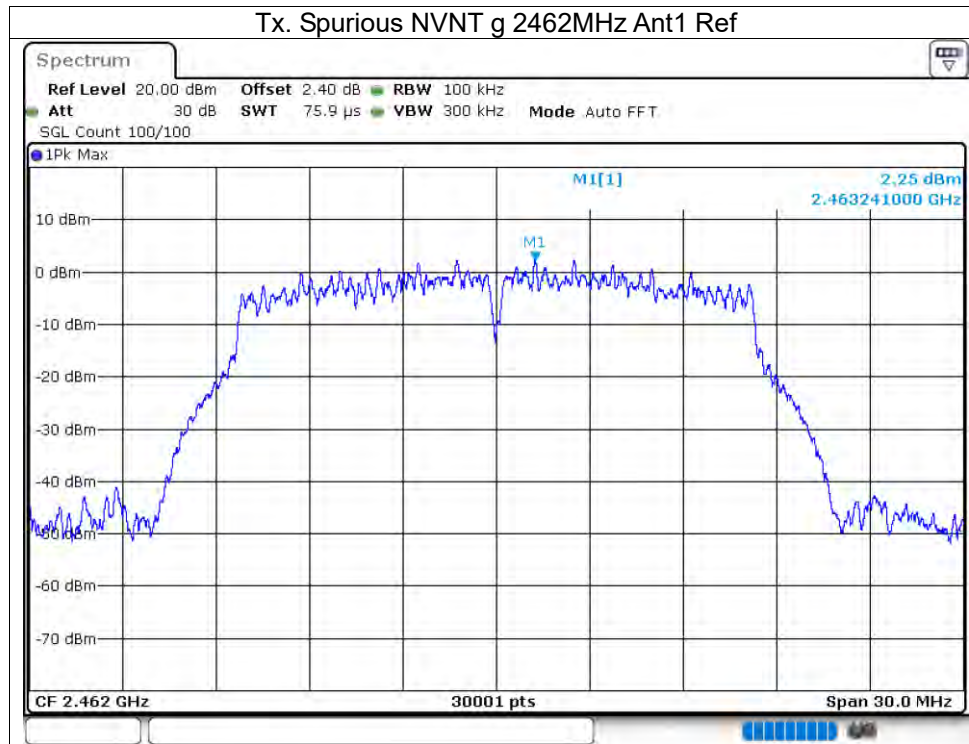


Tx. Spurious NVNT g 2437MHz Ant1 Ref

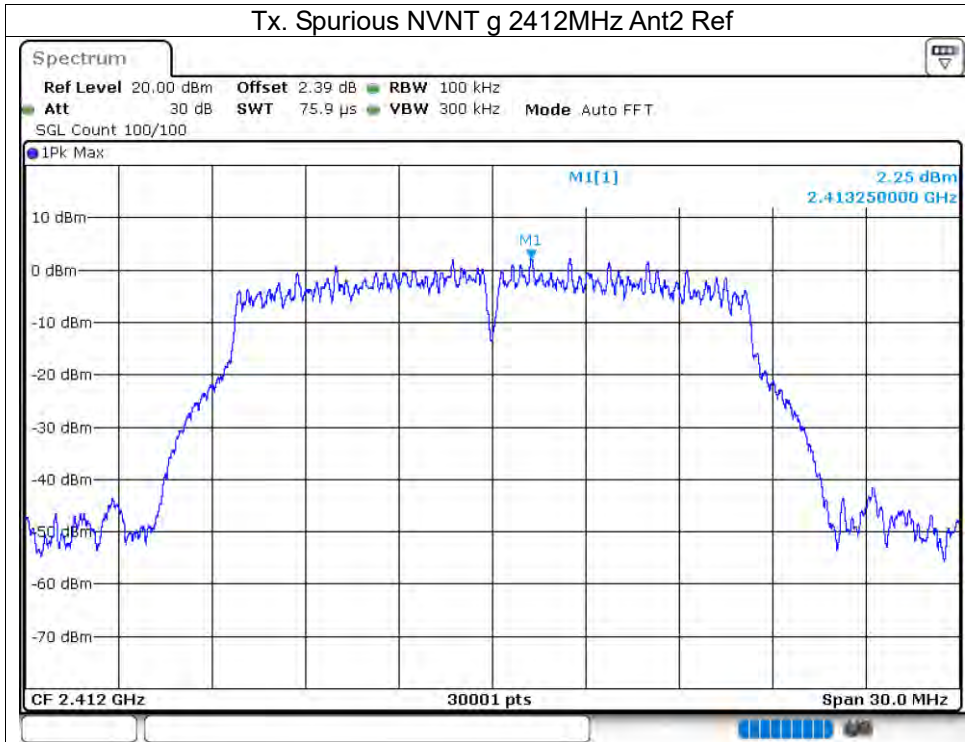


Tx. Spurious NVNT g 2437MHz Ant1 Emission

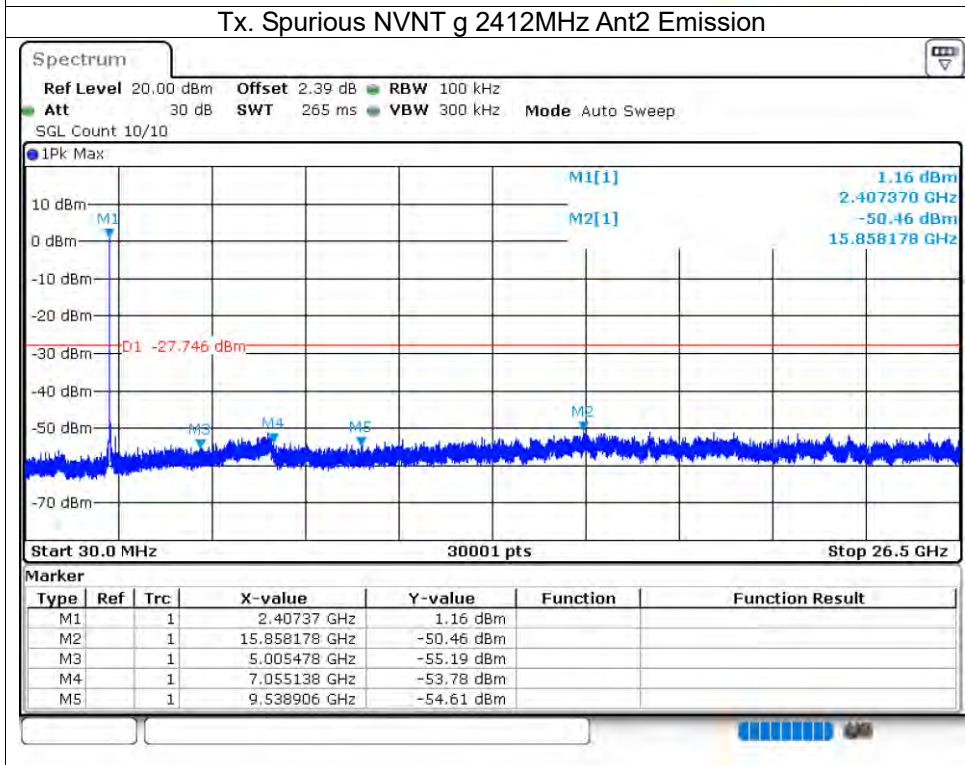


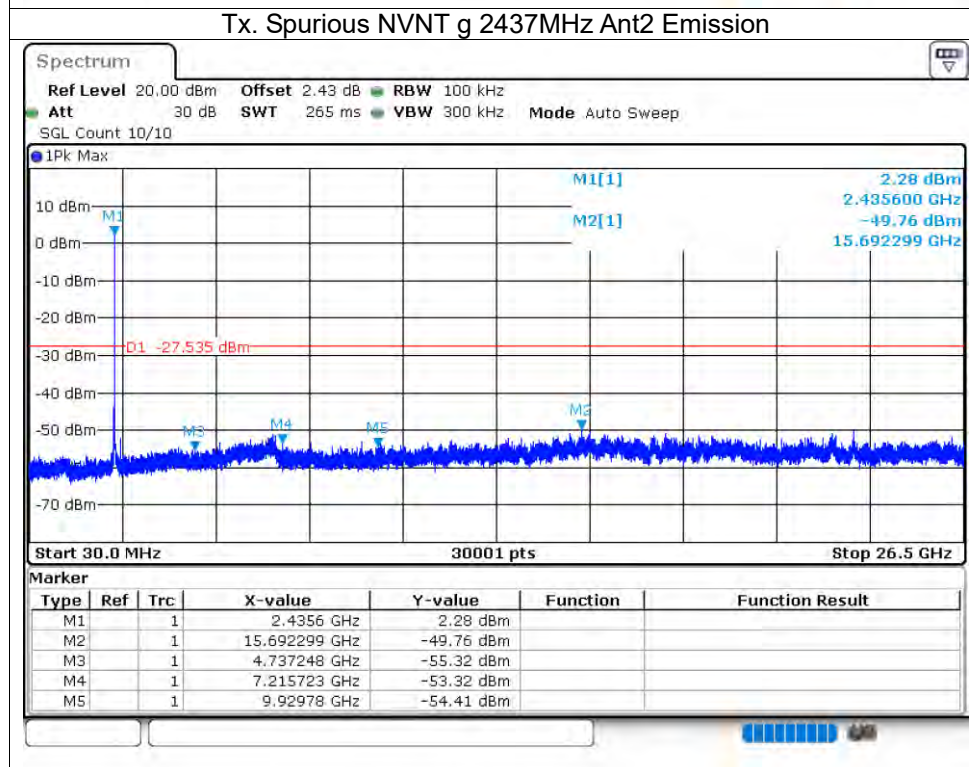
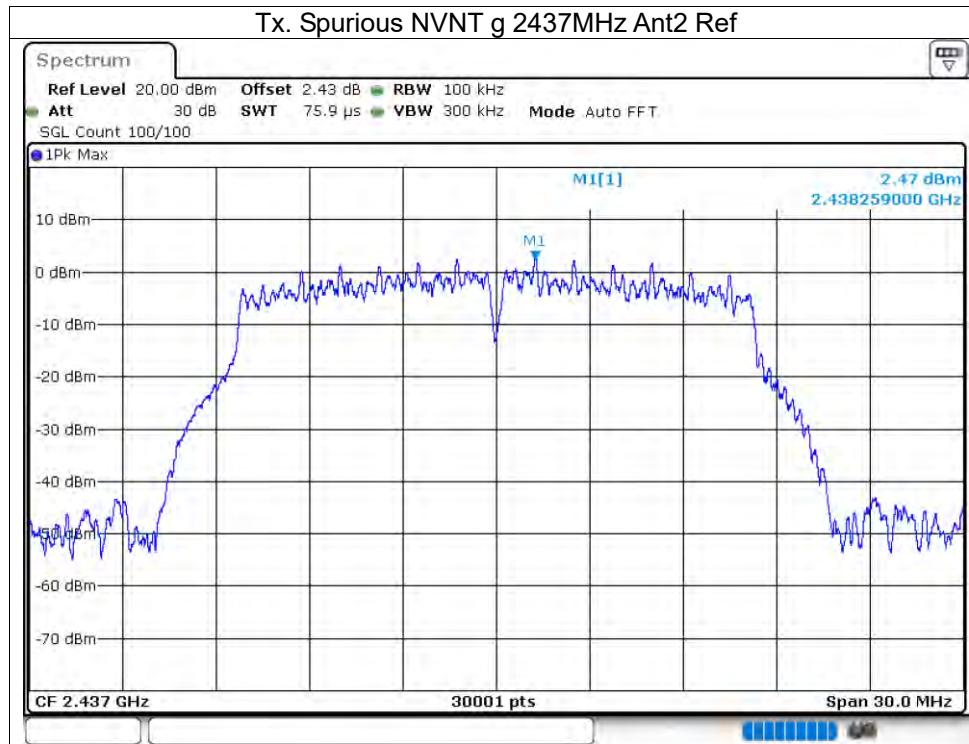


Tx. Spurious NVNT g 2412MHz Ant2 Ref

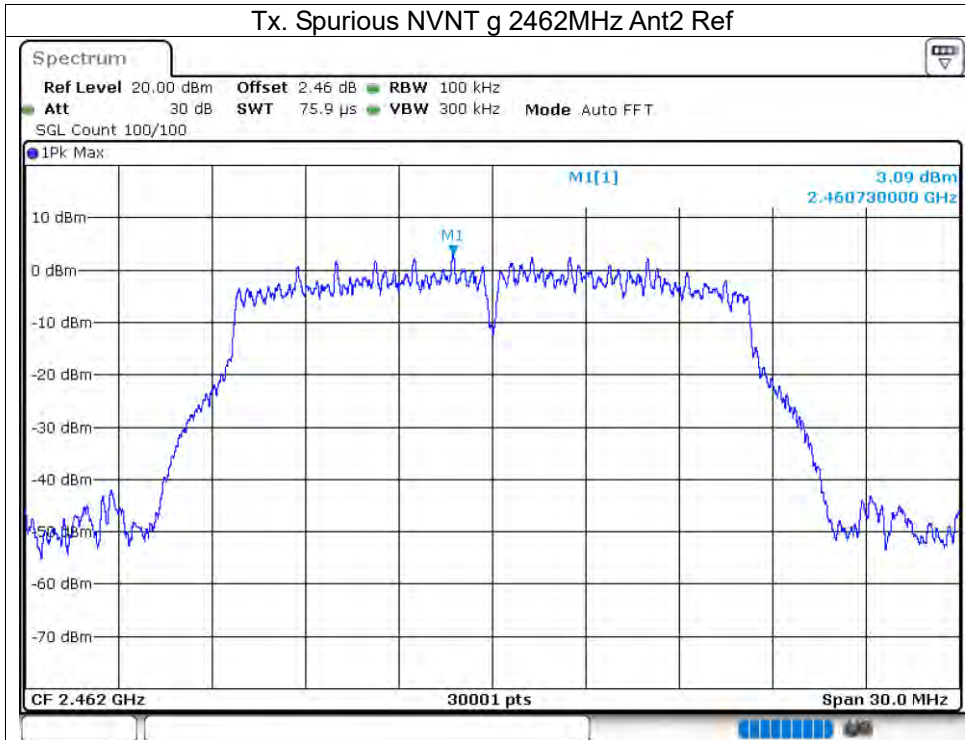


Tx. Spurious NVNT g 2412MHz Ant2 Emission

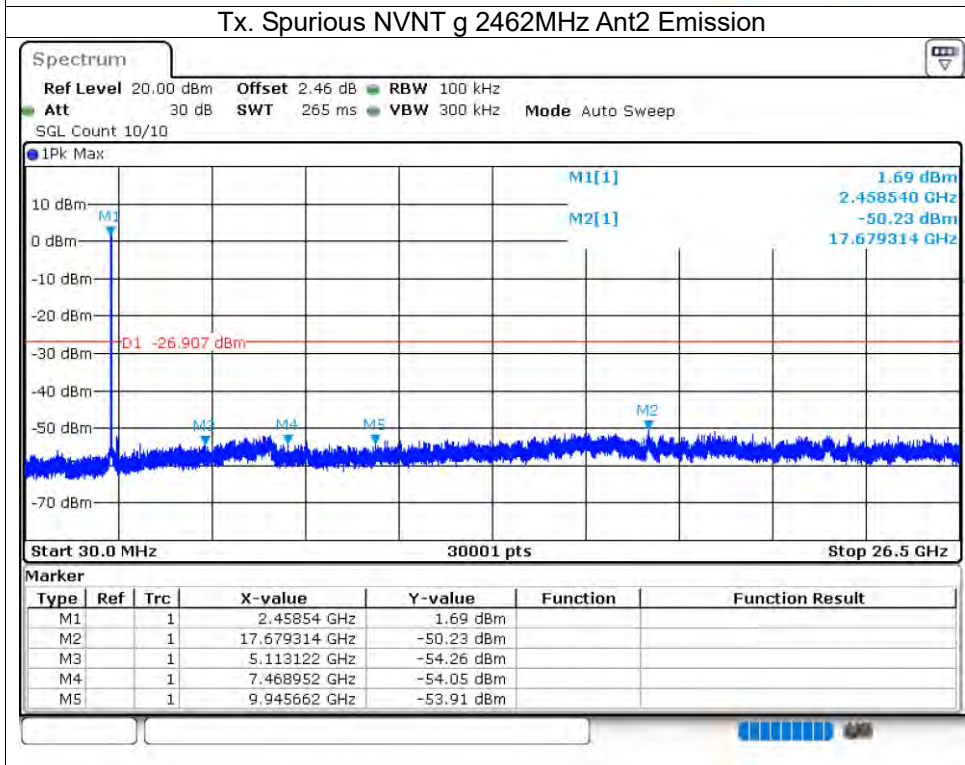




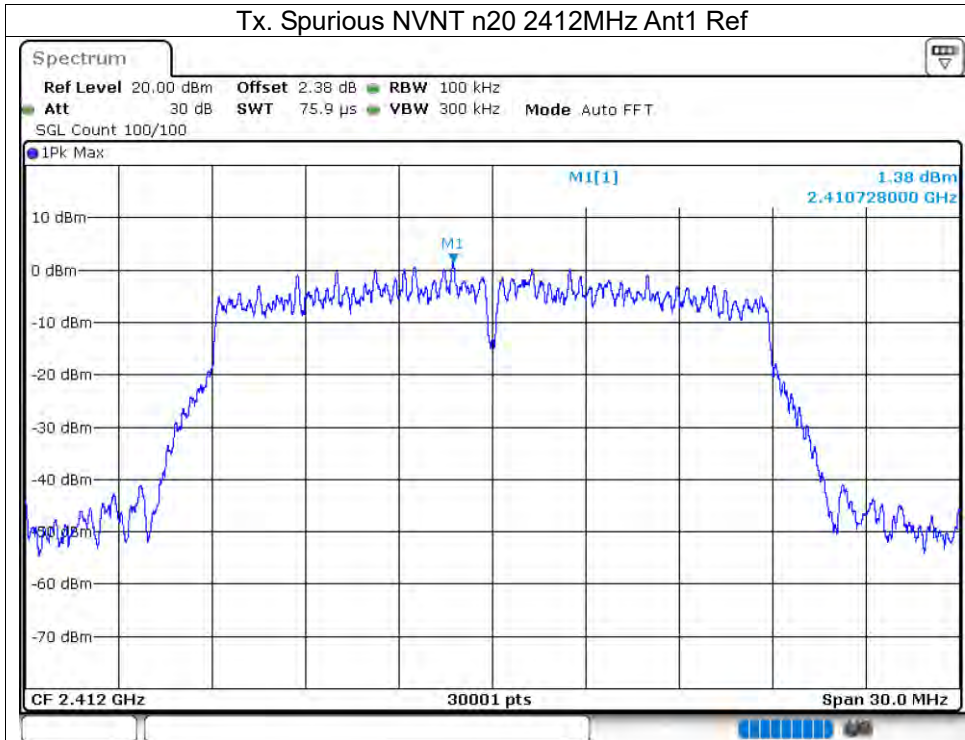
Tx. Spurious NVNT g 2462MHz Ant2 Ref



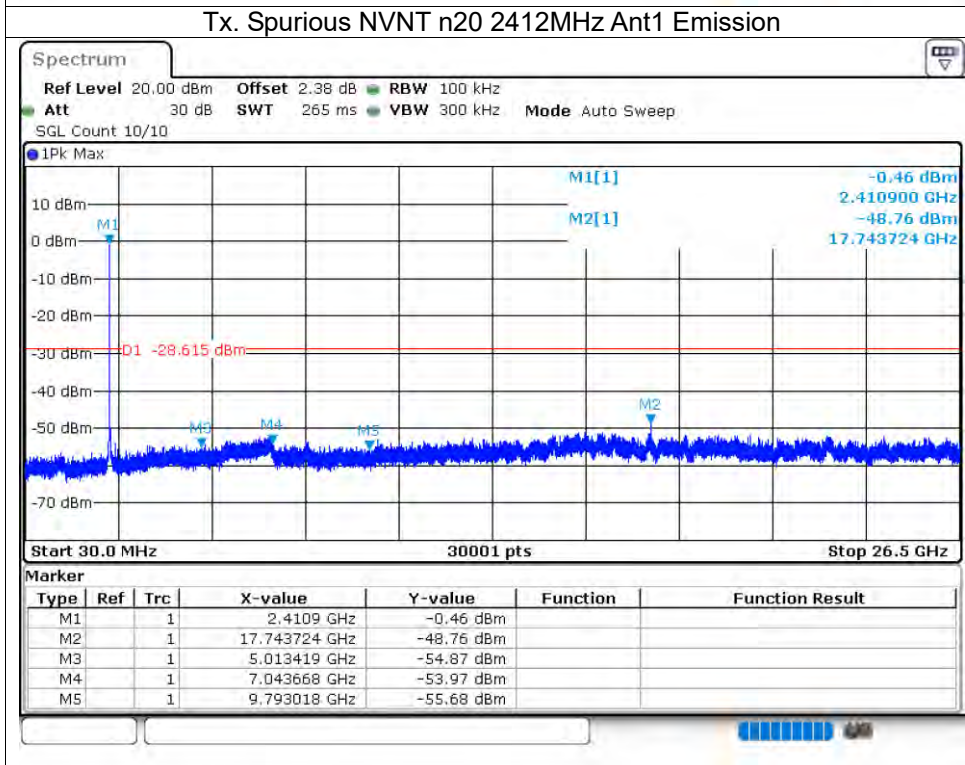
Tx. Spurious NVNT g 2462MHz Ant2 Emission



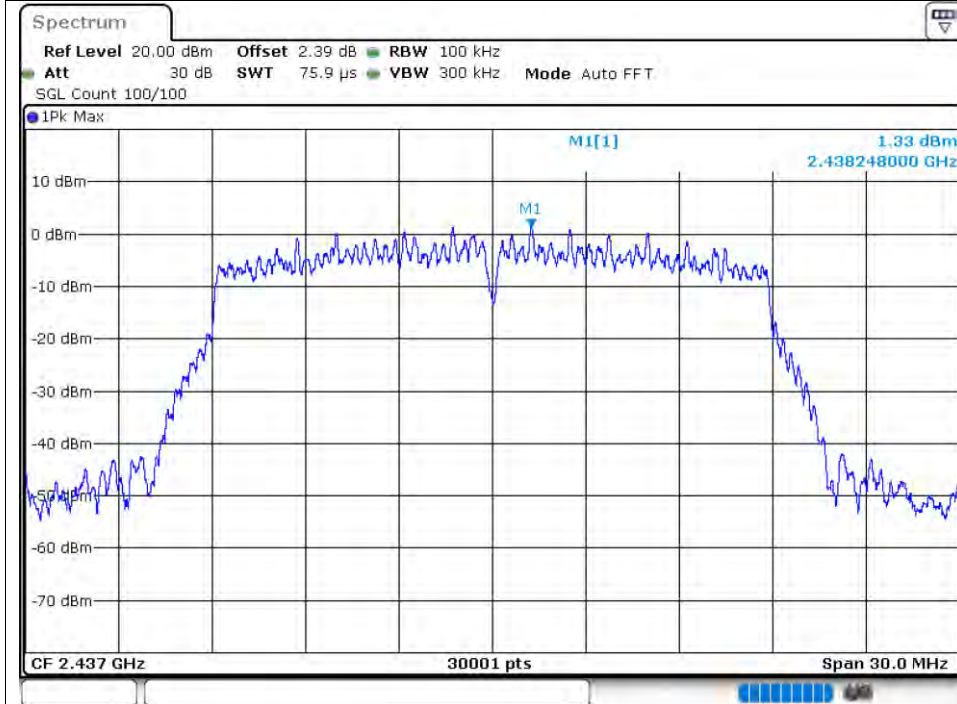
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



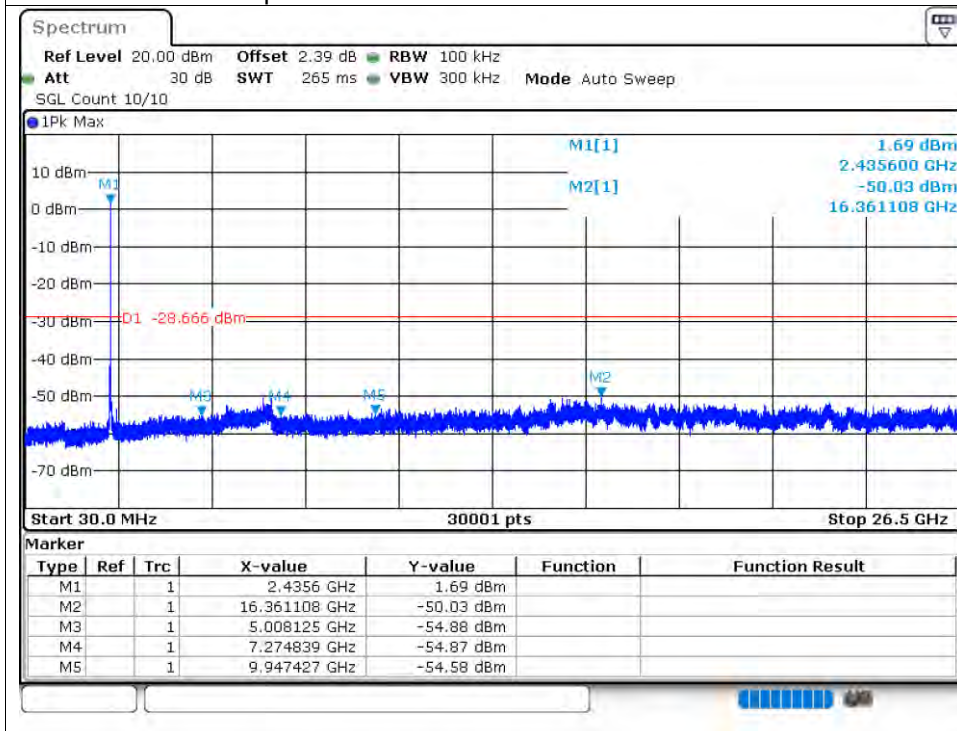
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



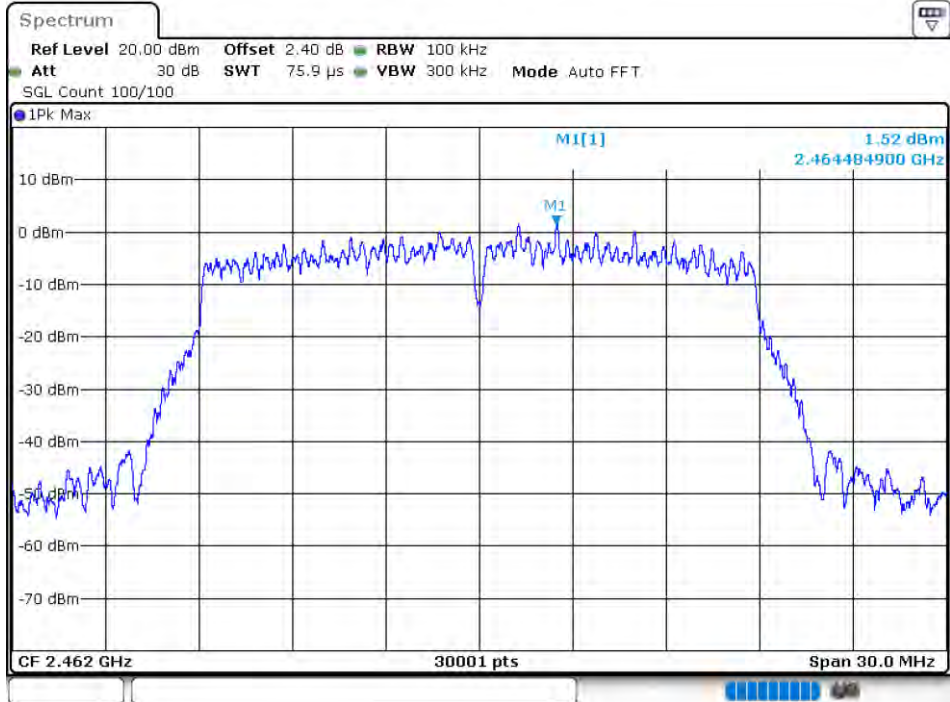
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



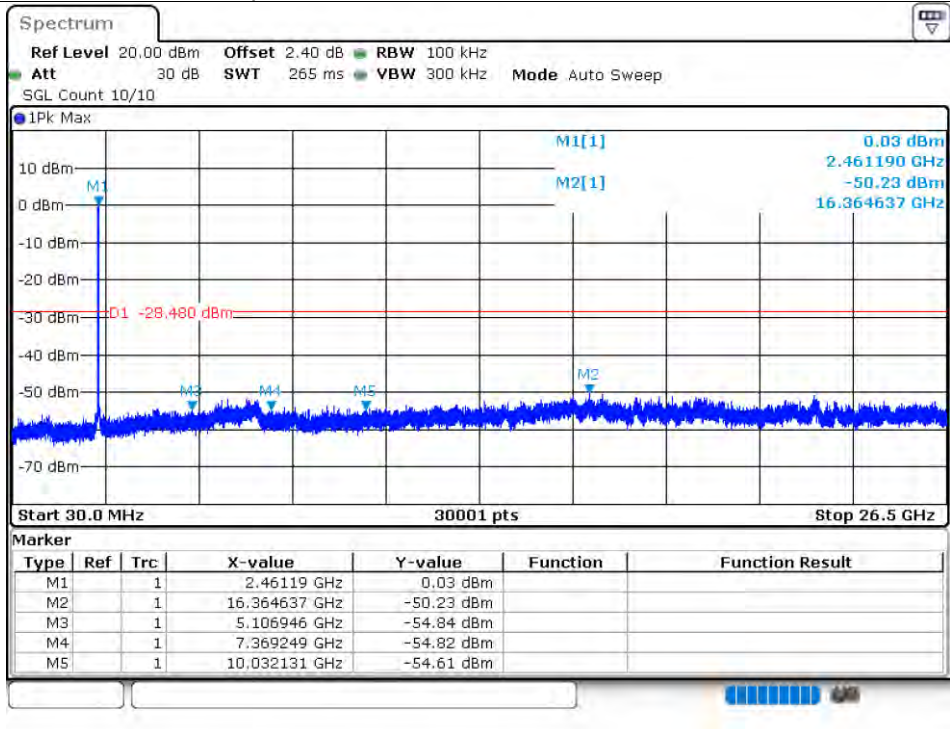
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



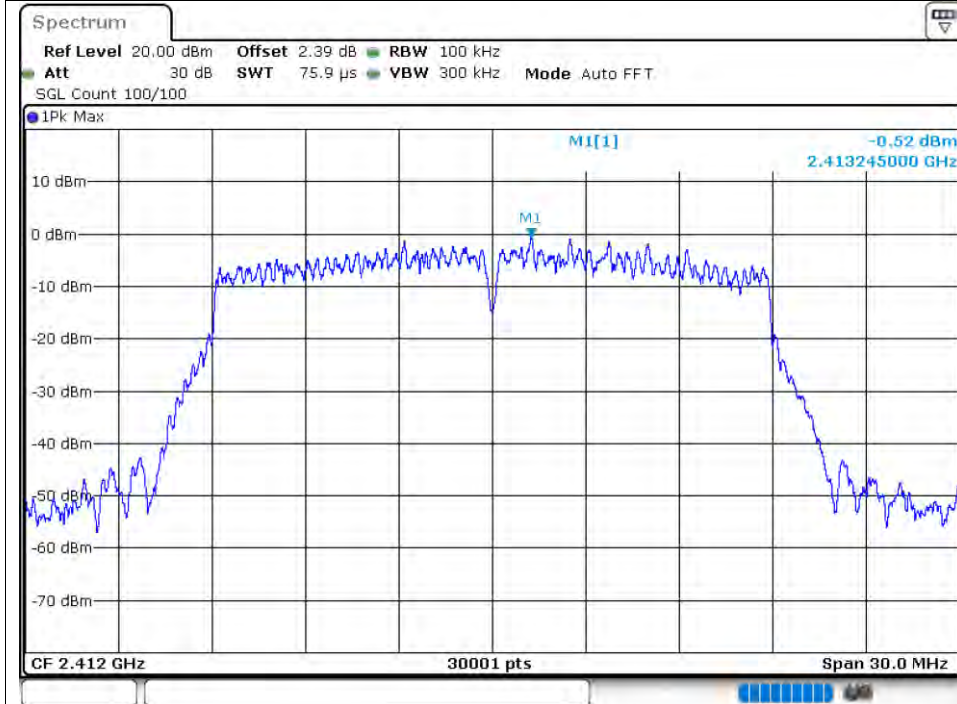
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



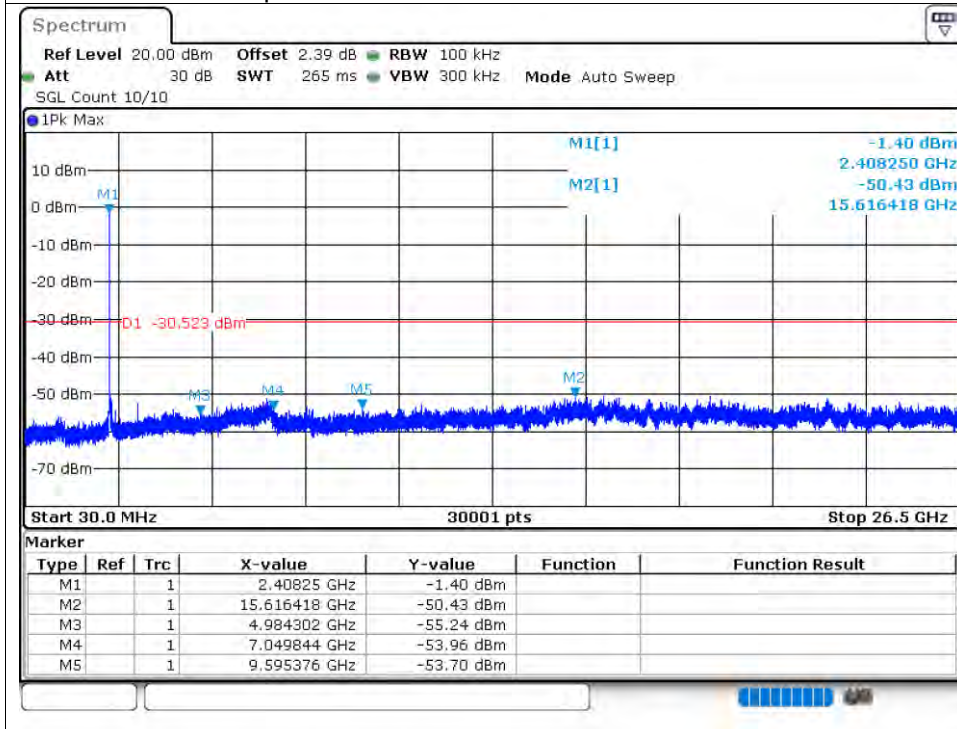
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



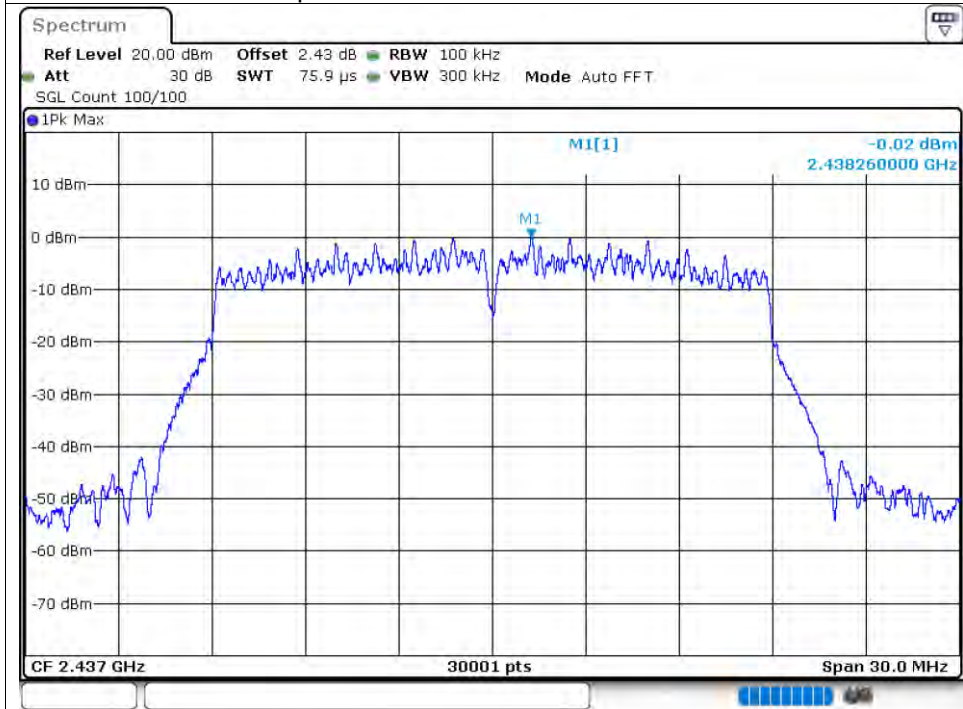
Tx. Spurious NVNT n20 2412MHz Ant2 Ref



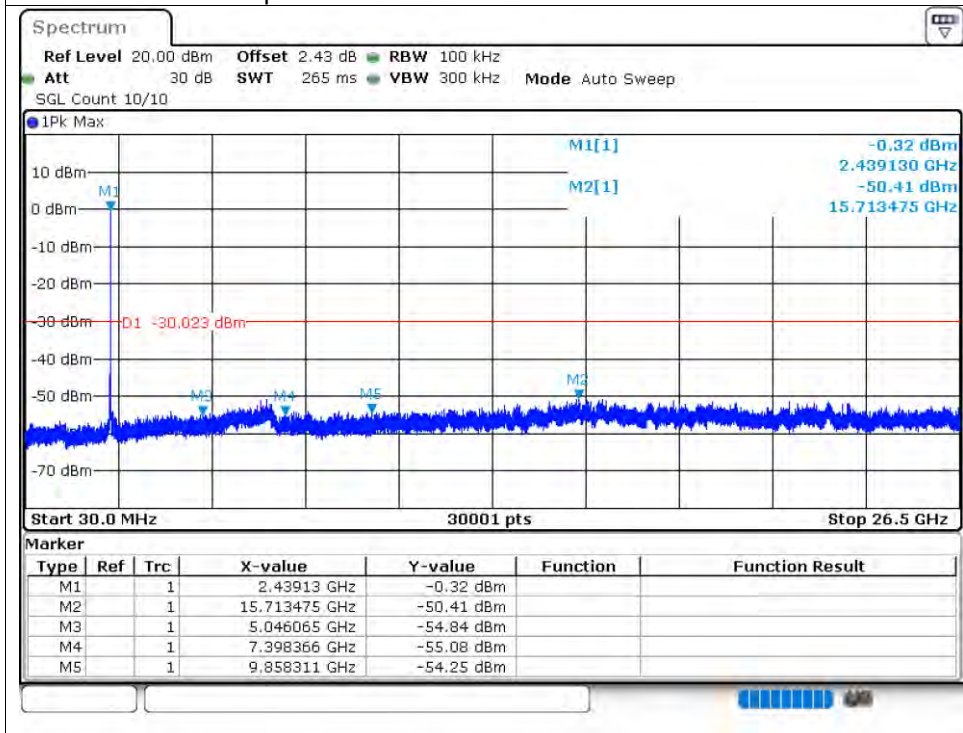
Tx. Spurious NVNT n20 2412MHz Ant2 Emission



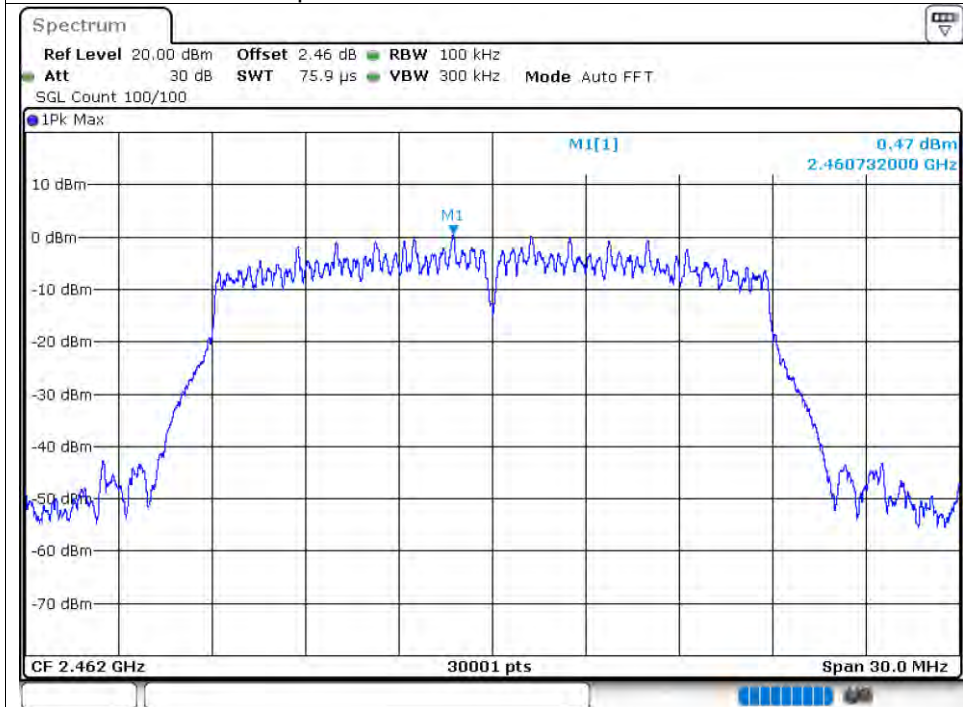
Tx. Spurious NVNT n20 2437MHz Ant2 Ref



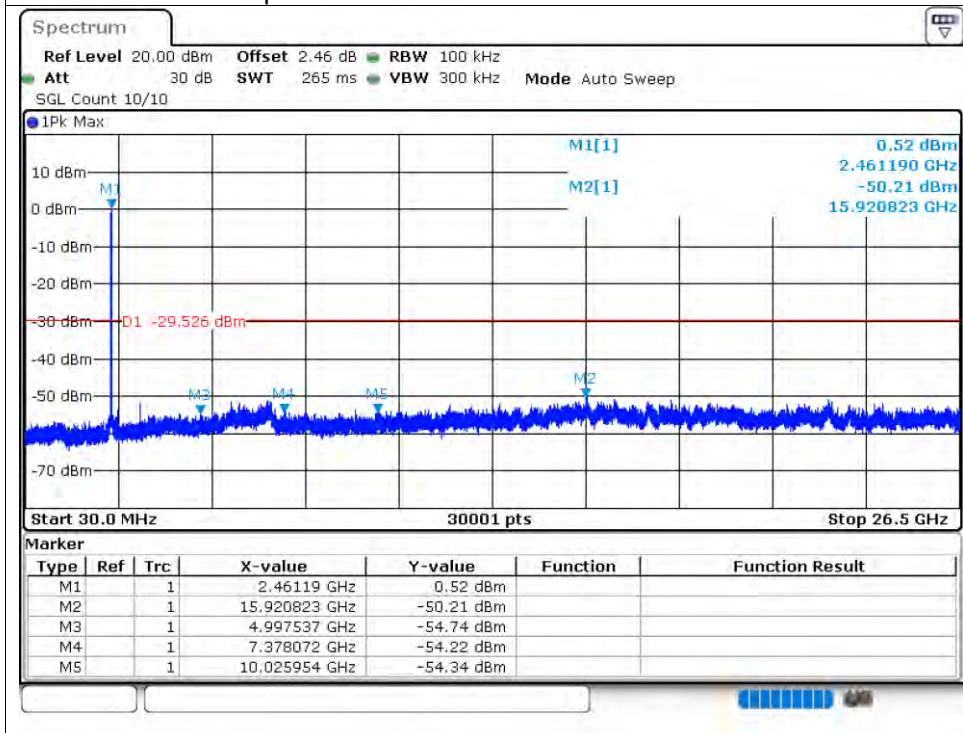
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



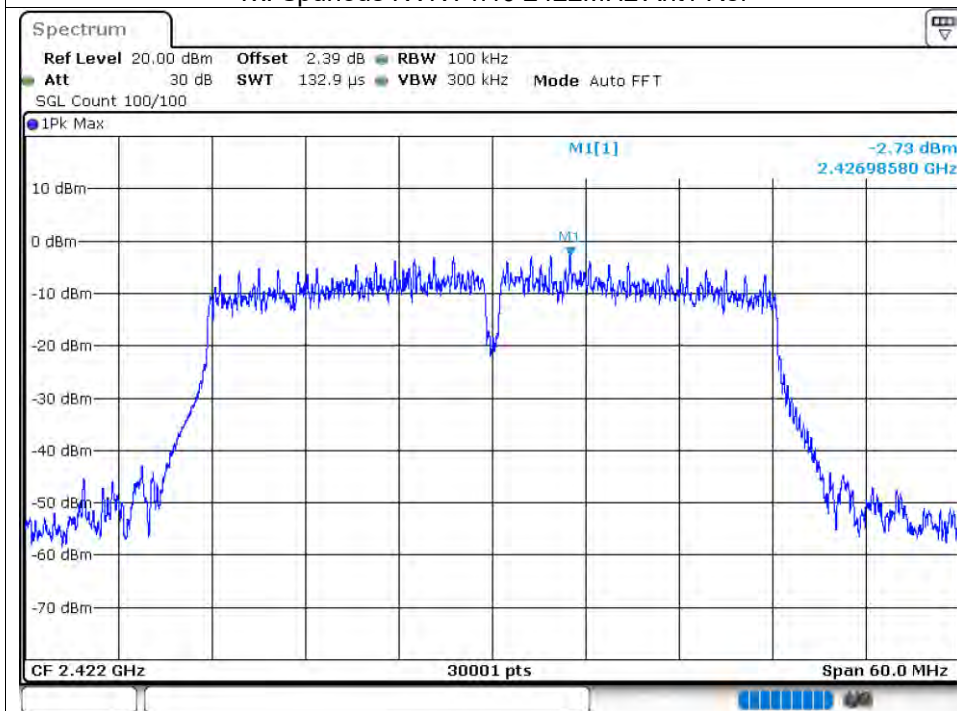
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



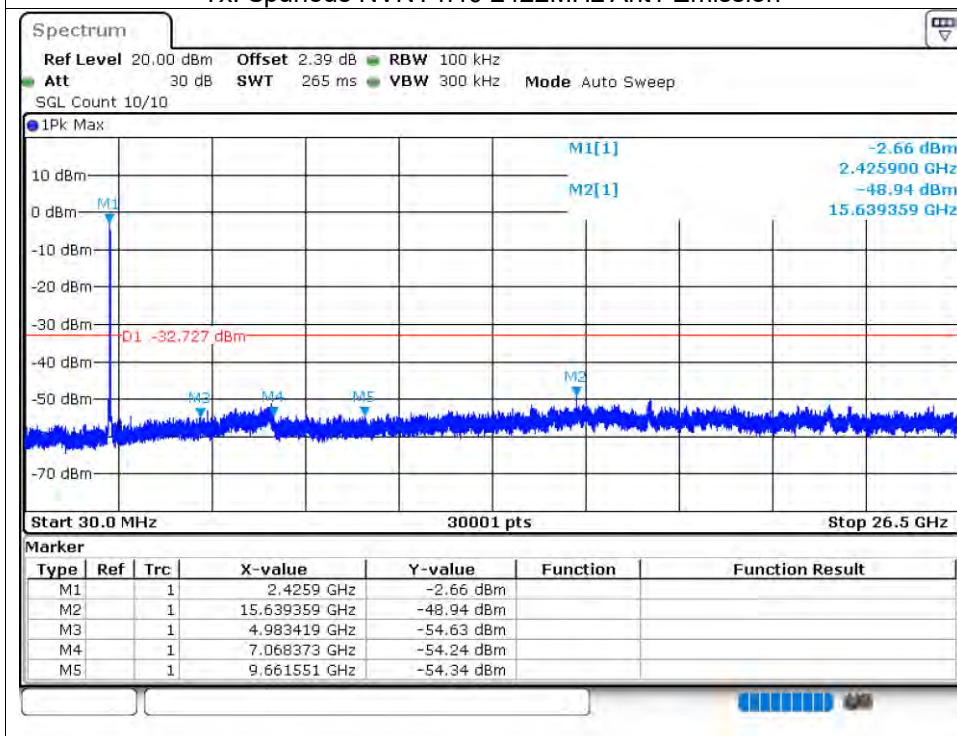
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



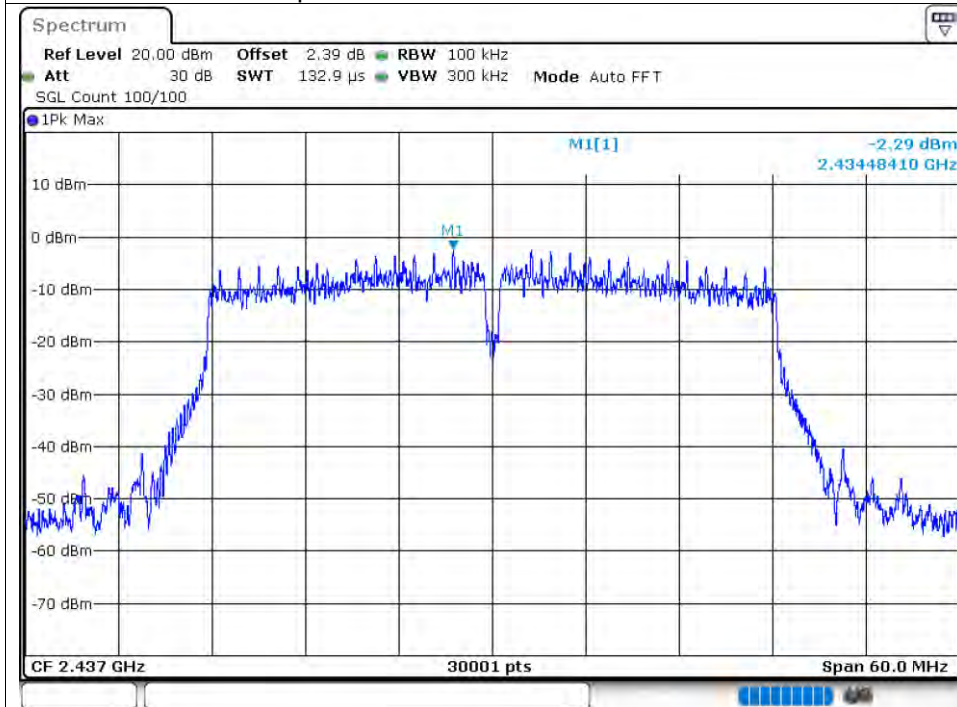
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



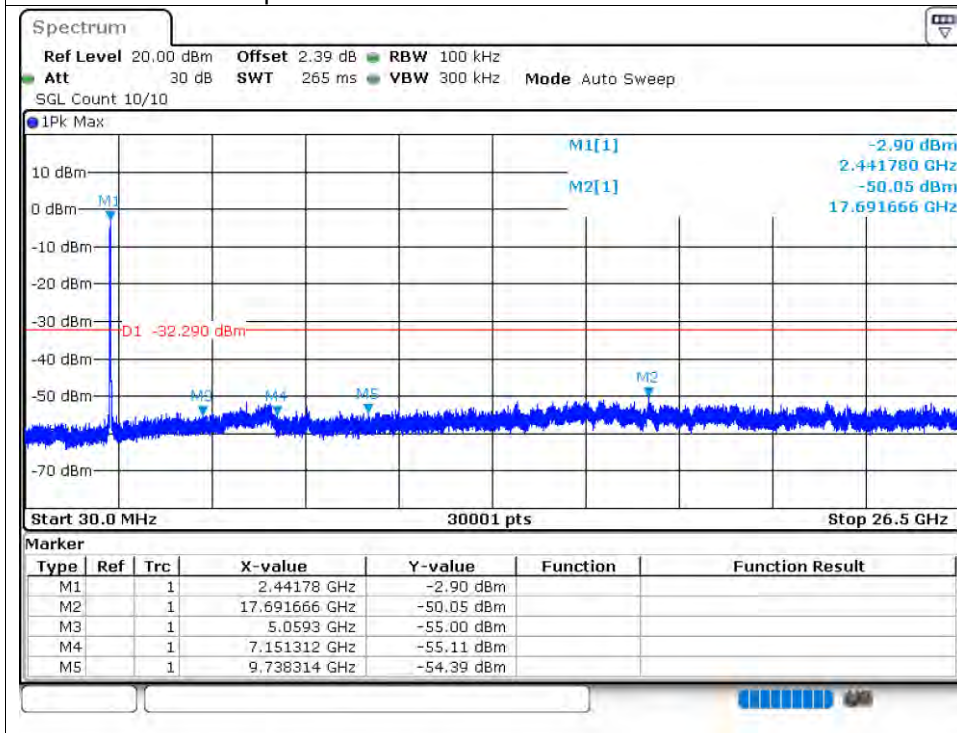
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



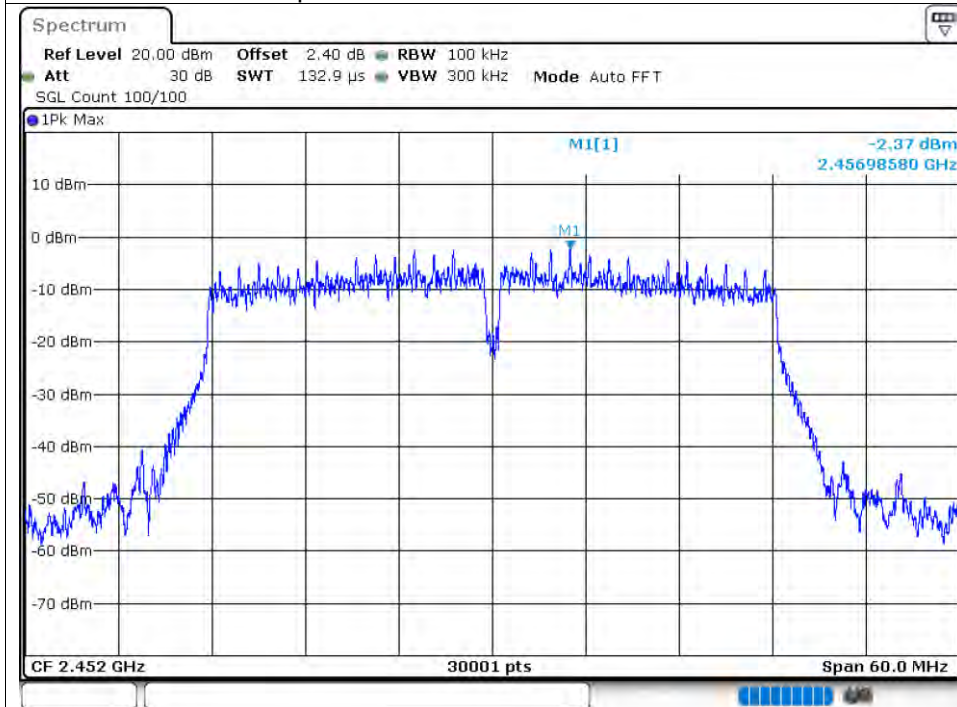
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



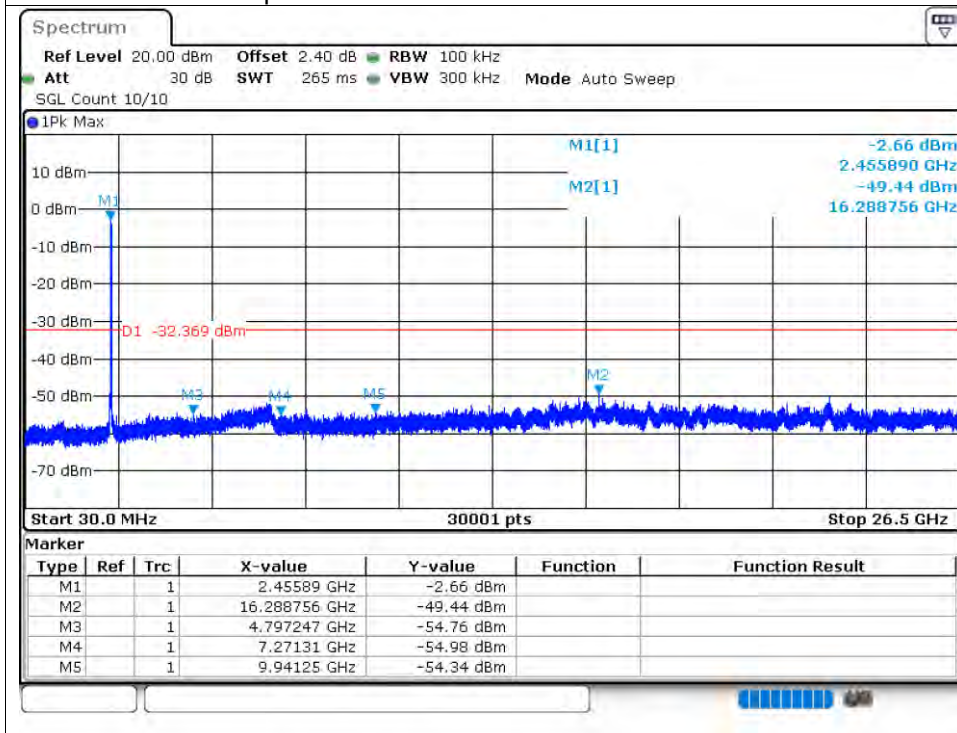
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



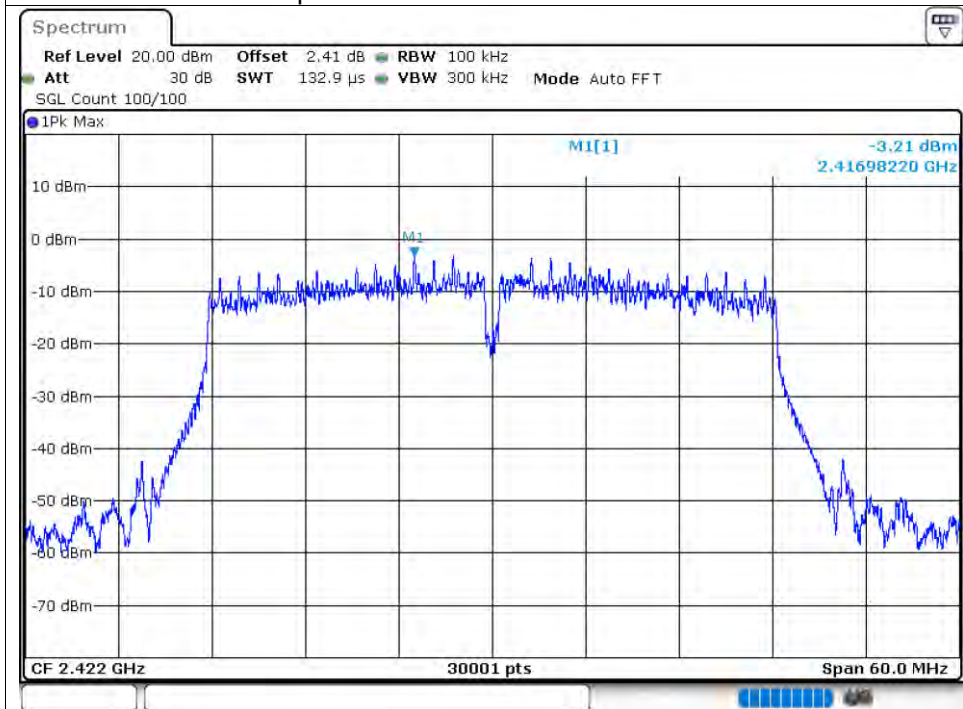
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



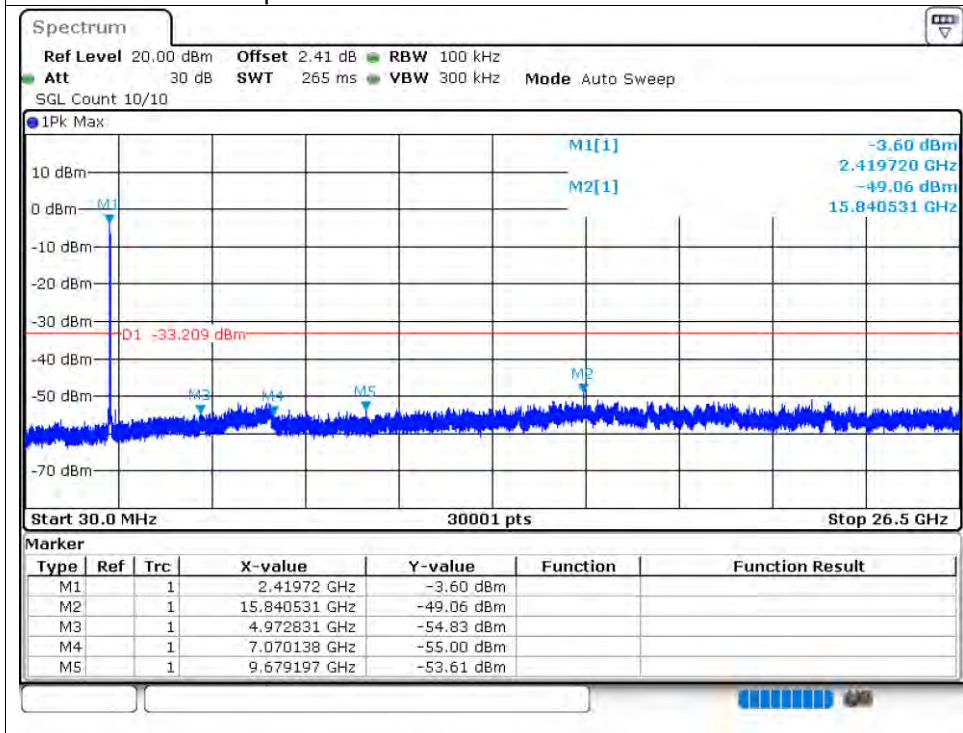
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



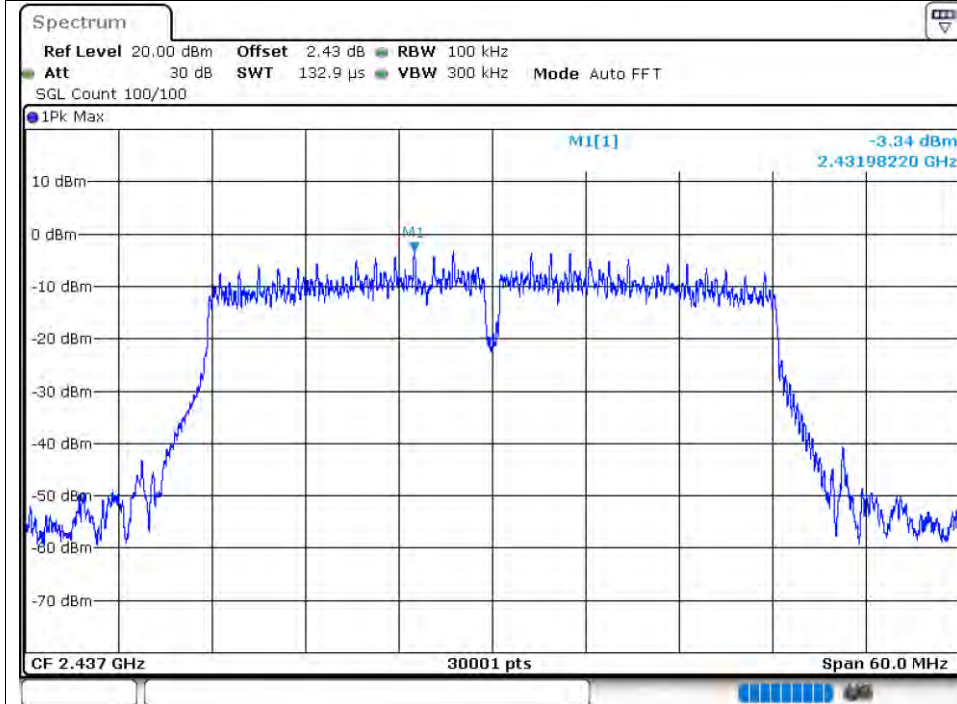
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



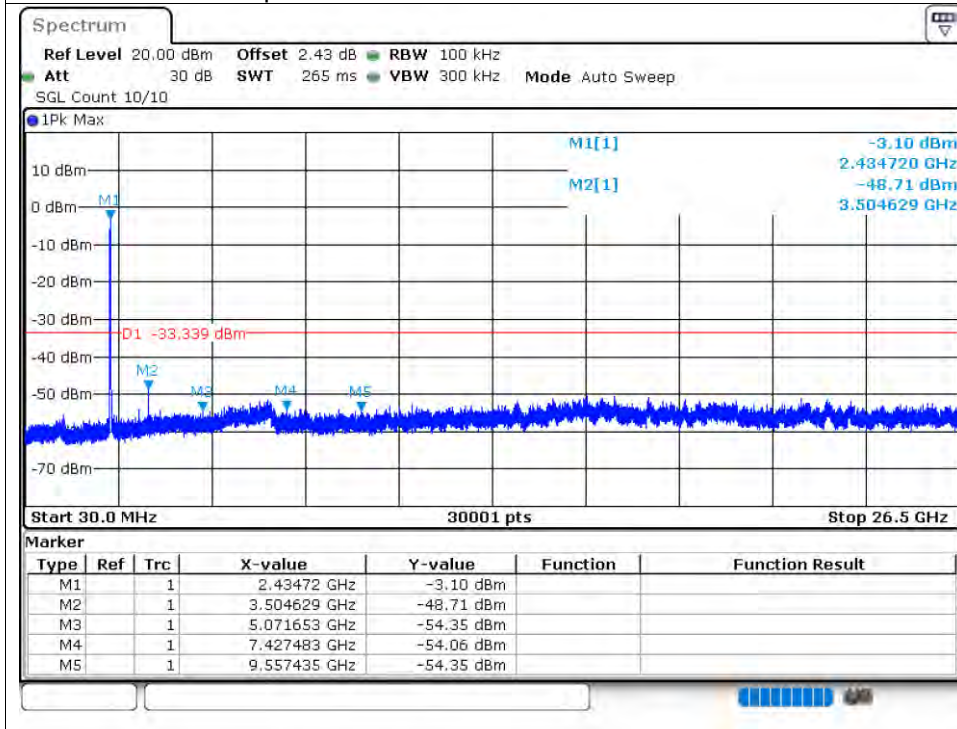
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



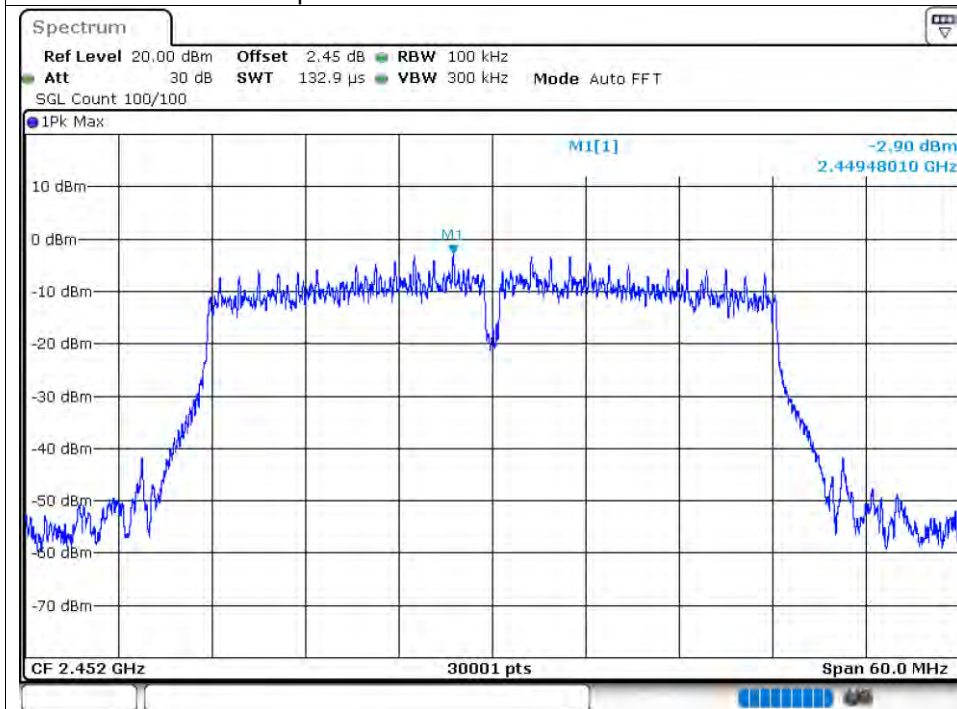
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



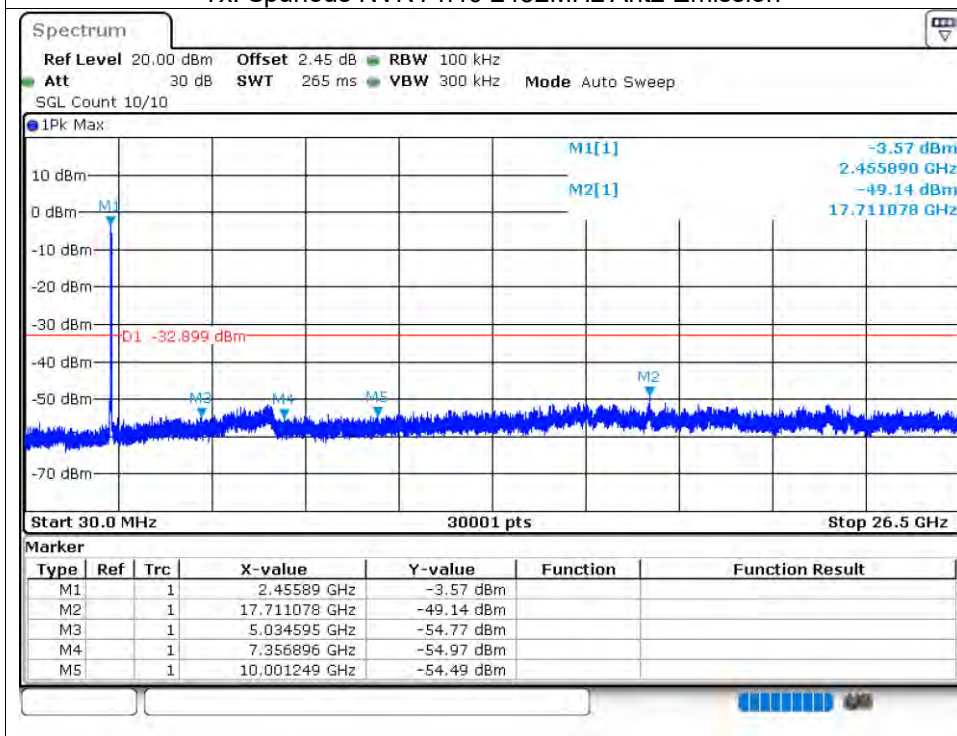
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



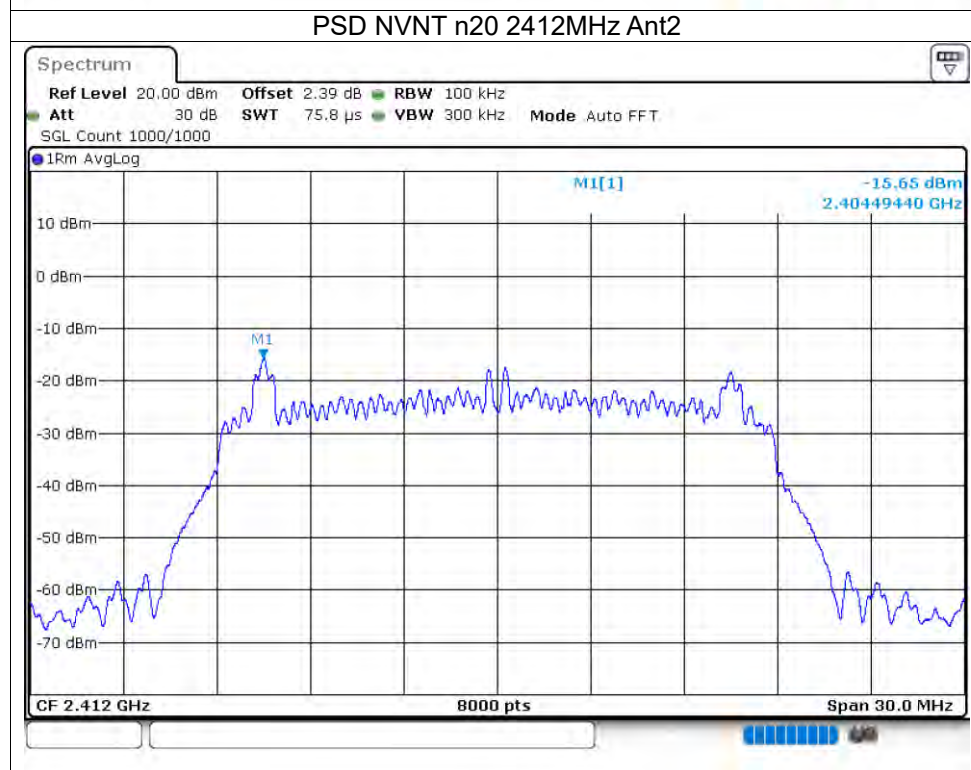
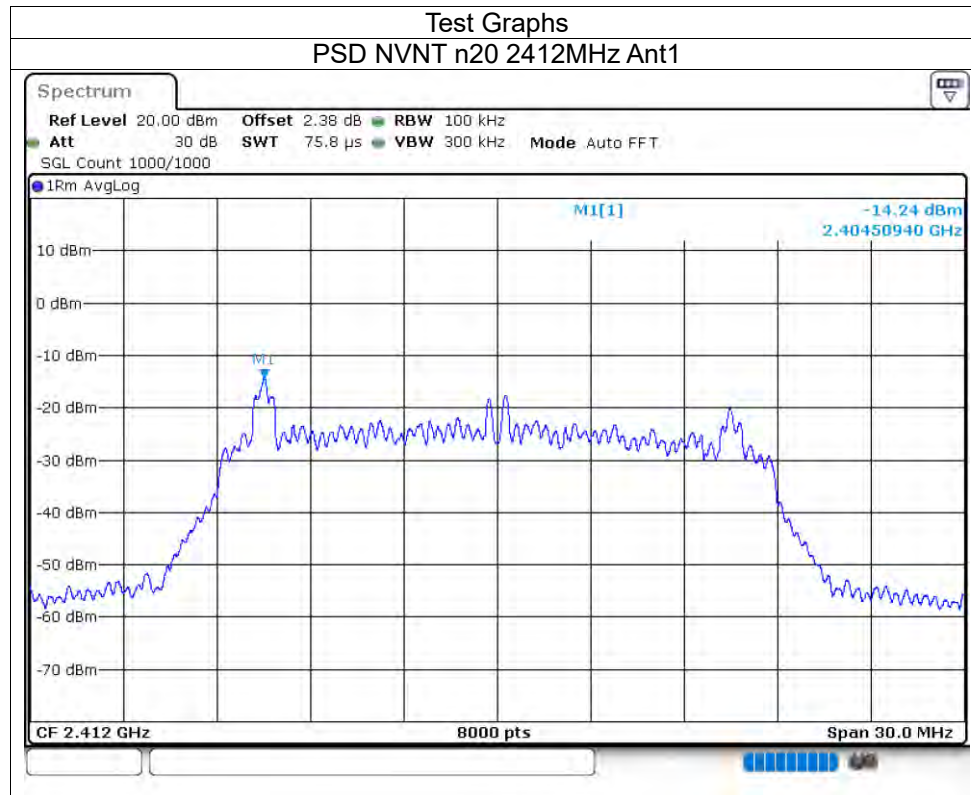
8.2 2.4G WIFI MIMO

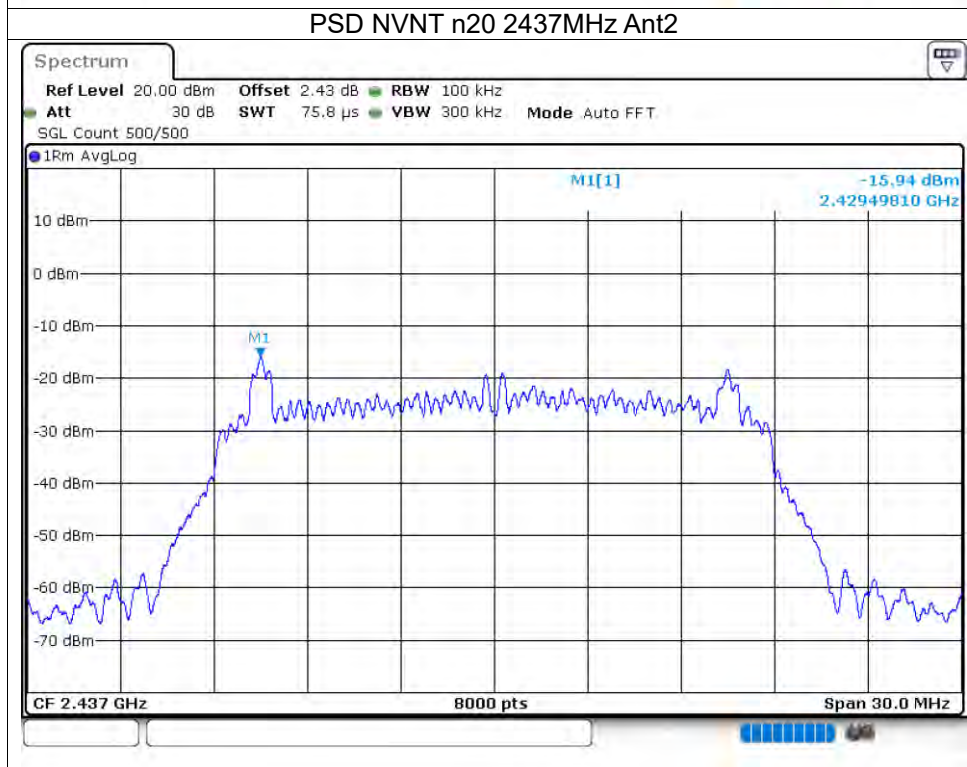
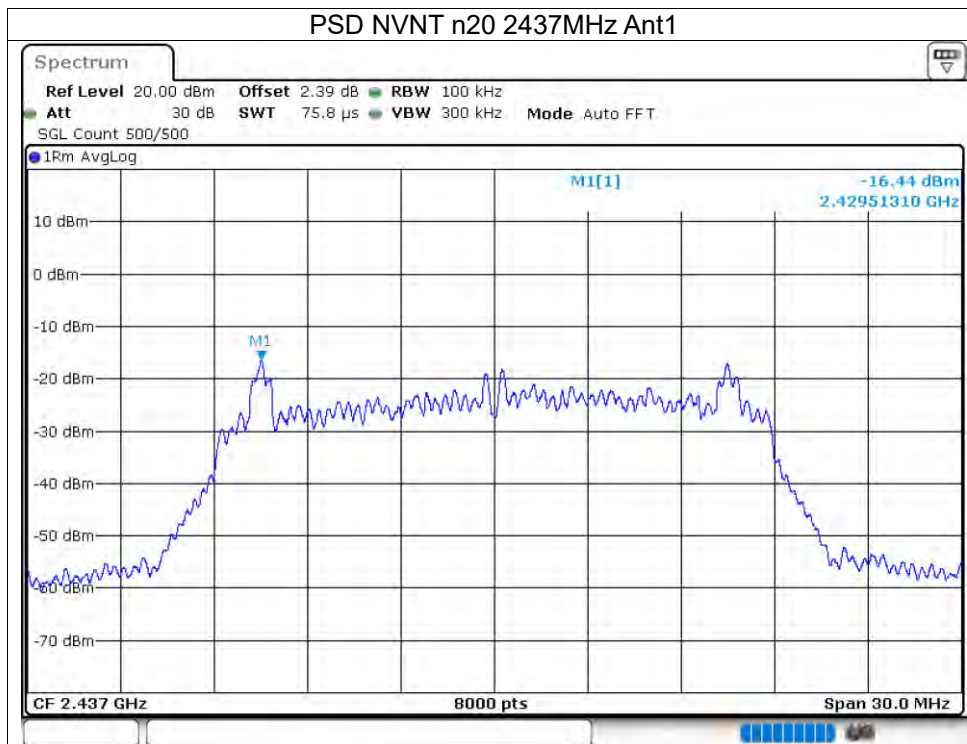
8.2.1 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant1	10.48	0.79	11.27	30	Pass
NVNT	n20	2412	Ant2	11.55	0.79	12.34	30	Pass
NVNT	n20	2412	Sum	--	--	14.85	30	Pass
NVNT	n20	2437	Ant1	9.82	0.79	10.61	30	Pass
NVNT	n20	2437	Ant2	10.73	0.79	11.52	30	Pass
NVNT	n20	2437	Sum	--	--	14.1	30	Pass
NVNT	n20	2462	Ant1	10	0.79	10.79	30	Pass
NVNT	n20	2462	Ant2	10.77	0.79	11.56	30	Pass
NVNT	n20	2462	Sum	--	--	14.2	30	Pass
NVNT	n40	2422	Ant1	6.13	1.17	7.3	30	Pass
NVNT	n40	2422	Ant2	7.05	1.17	8.22	30	Pass
NVNT	n40	2422	Sum	--	--	10.79	30	Pass
NVNT	n40	2437	Ant1	6.51	1.17	7.68	30	Pass
NVNT	n40	2437	Ant2	7.15	1.17	8.32	30	Pass
NVNT	n40	2437	Sum	--	--	11.02	30	Pass
NVNT	n40	2452	Ant1	5.65	1.17	6.82	30	Pass
NVNT	n40	2452	Ant2	7.19	1.17	8.36	30	Pass
NVNT	n40	2452	Sum	10.48	--	10.67	30	Pass

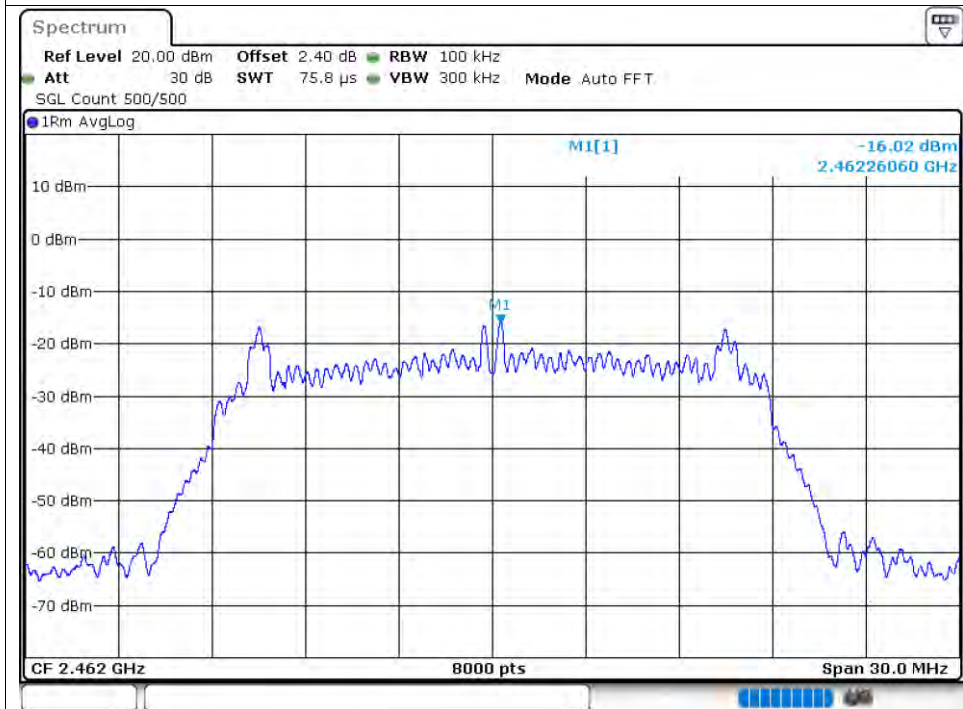
8.2.2 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant1	-14.24	0.79	--	8	Pass
NVNT	n20	2412	Ant2	-15.65	0.79	--	8	Pass
NVNT	n20	2412	Sum	-11.88	0.79	-11.09	8	Pass
NVNT	n20	2437	Ant1	-16.44	0.79	--	8	Pass
NVNT	n20	2437	Ant2	-15.94	0.79	--	8	Pass
NVNT	n20	2437	Sum	-13.17	0.79	-12.38	8	Pass
NVNT	n20	2462	Ant1	-16.02	0.79	--	8	Pass
NVNT	n20	2462	Ant2	-16.08	0.79	--	8	Pass
NVNT	n20	2462	Sum	-13.04	0.79	-12.25	8	Pass
NVNT	n40	2422	Ant1	-22.67	1.16	--	8	Pass
NVNT	n40	2422	Ant2	-22.99	1.16	--	8	Pass
NVNT	n40	2422	Sum	-19.82	1.16	-18.66	8	Pass
NVNT	n40	2437	Ant1	-22.26	1.16	--	8	Pass
NVNT	n40	2437	Ant2	-22.24	1.16	--	8	Pass
NVNT	n40	2437	Sum	-19.24	1.16	-18.08	8	Pass
NVNT	n40	2452	Ant1	-22.94	1.17	--	8	Pass
NVNT	n40	2452	Ant2	-22.89	1.17	--	8	Pass
NVNT	n40	2452	Sum	-19.90	1.16	-18.74	8	Pass

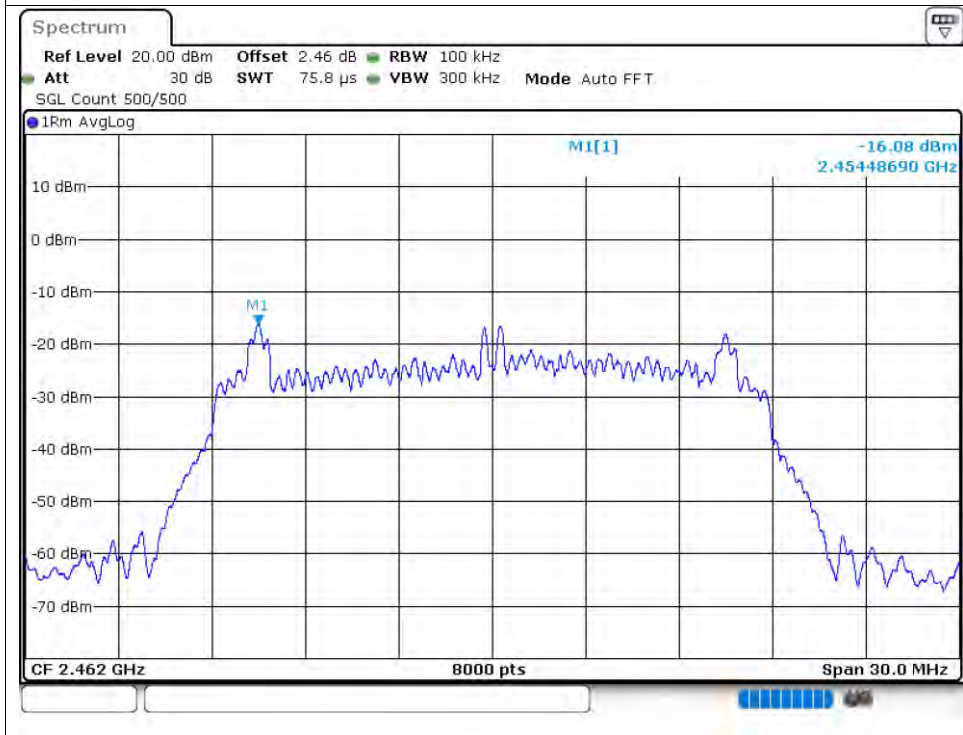


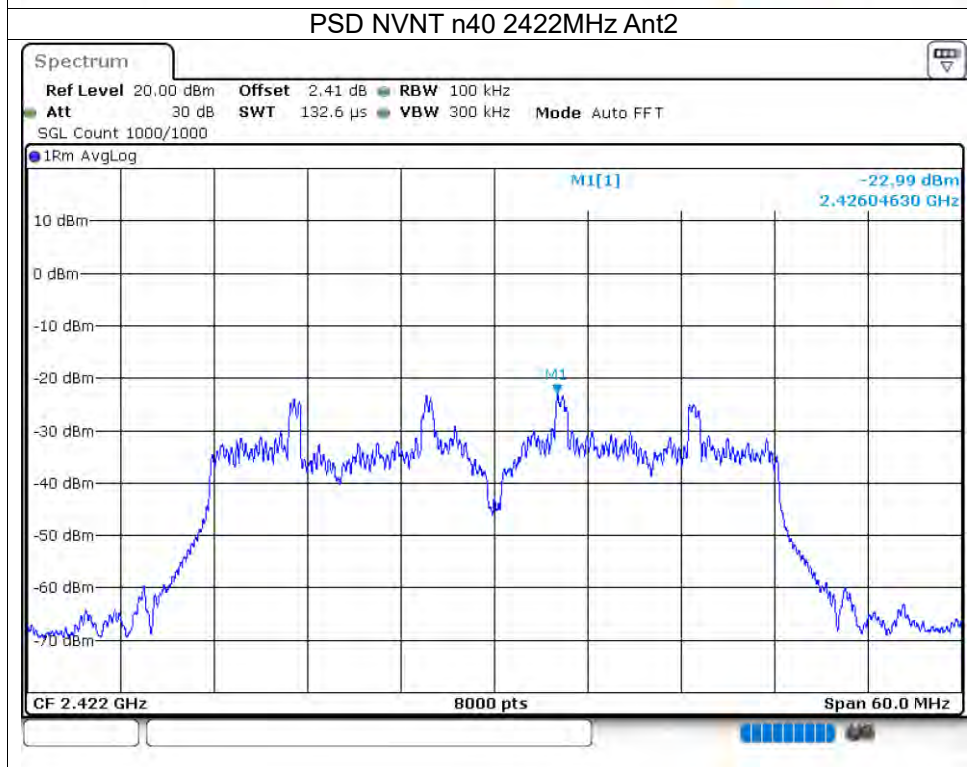
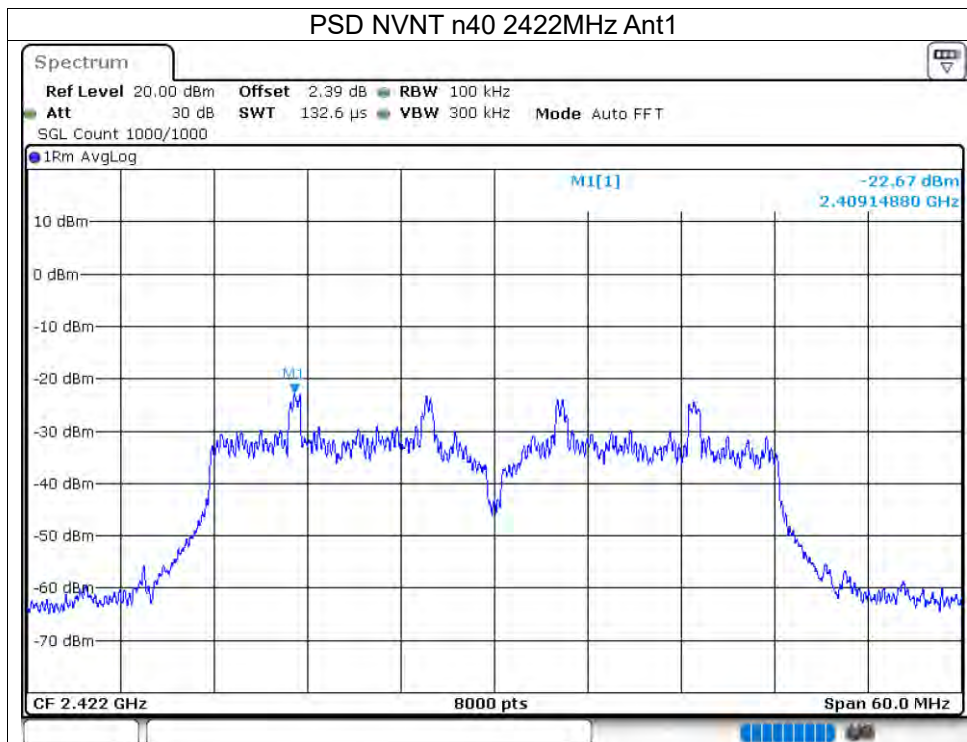


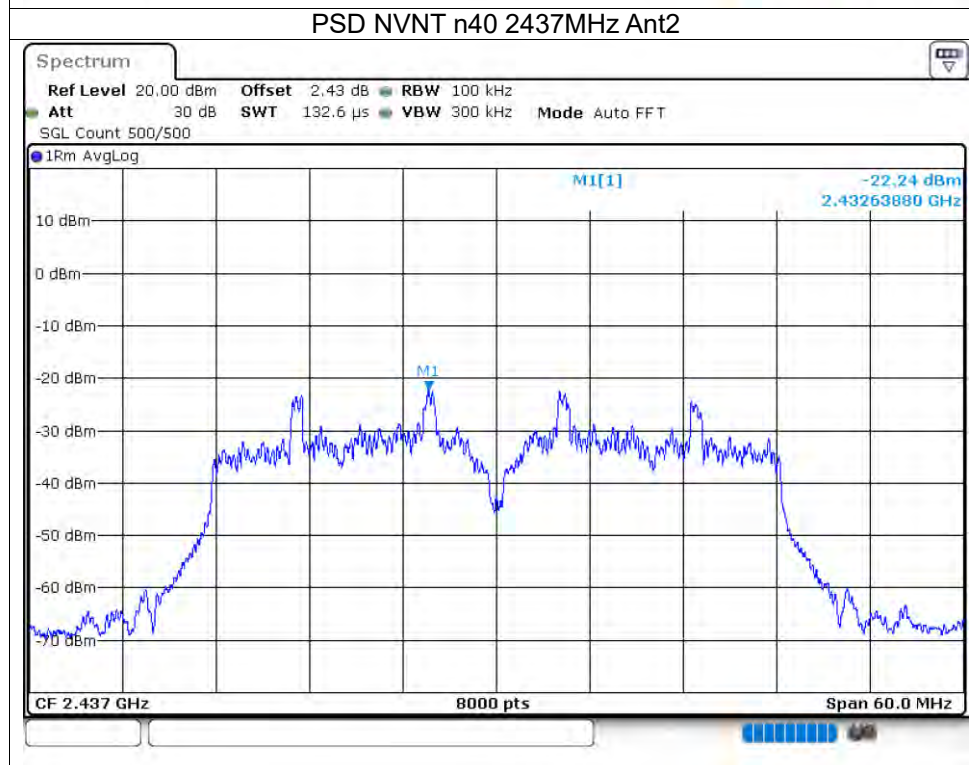
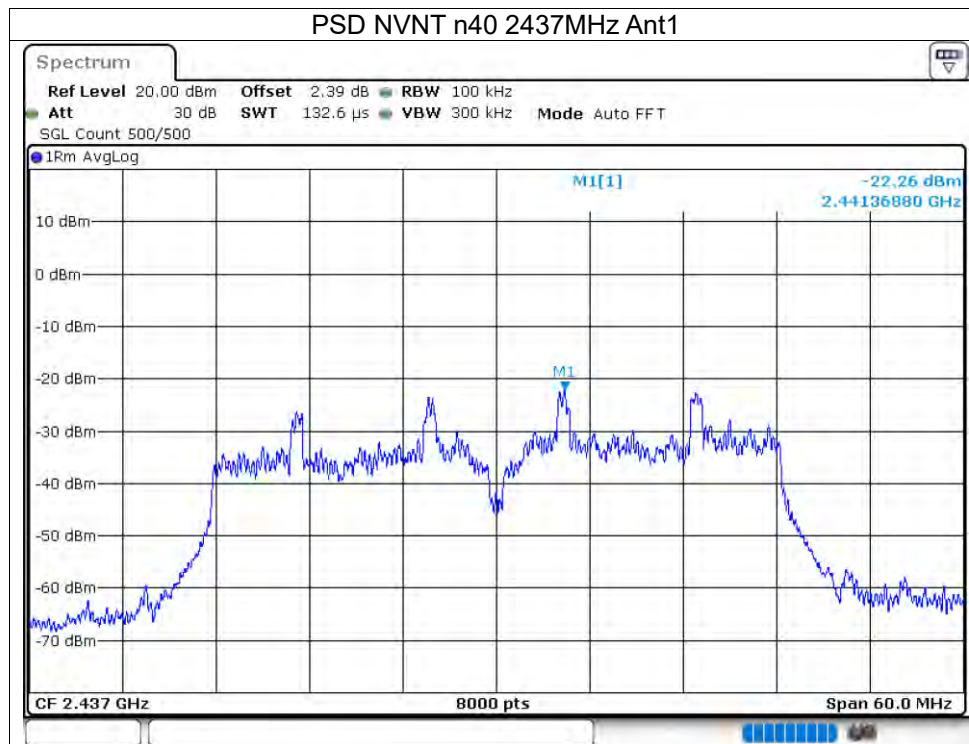
PSD NVNT n20 2462MHz Ant1



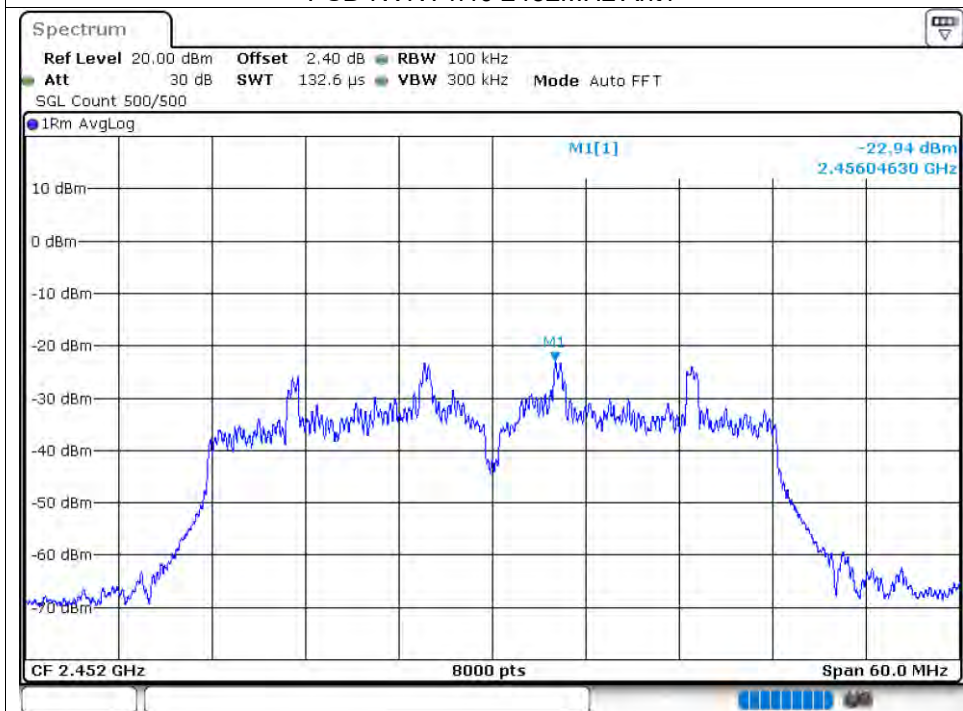
PSD NVNT n20 2462MHz Ant2



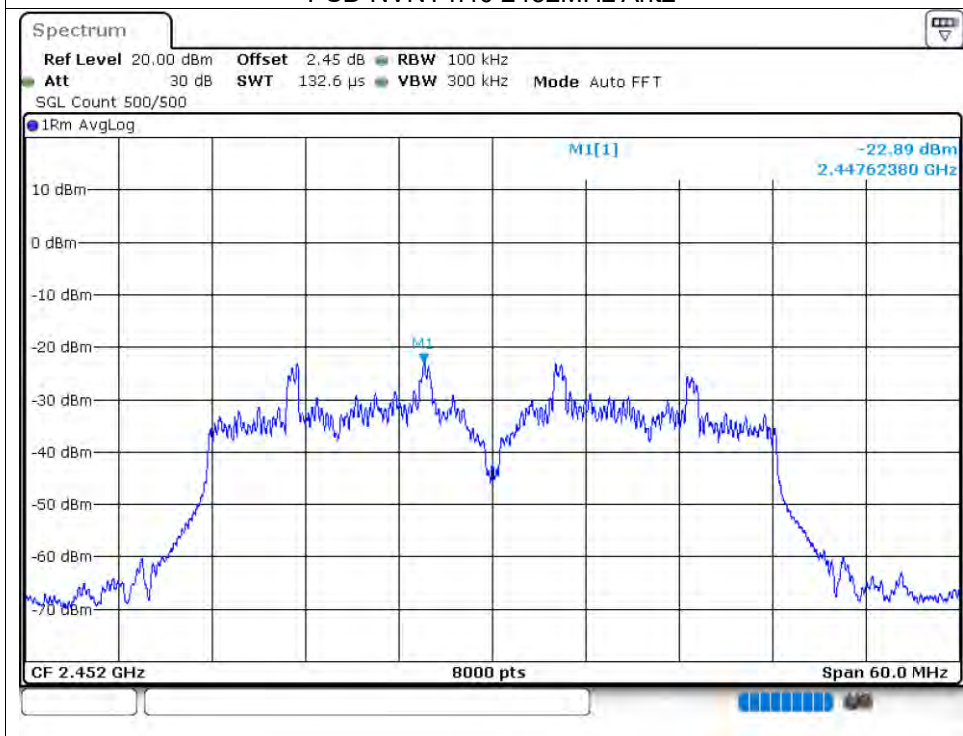




PSD NVNT n40 2452MHz Ant1



PSD NVNT n40 2452MHz Ant2



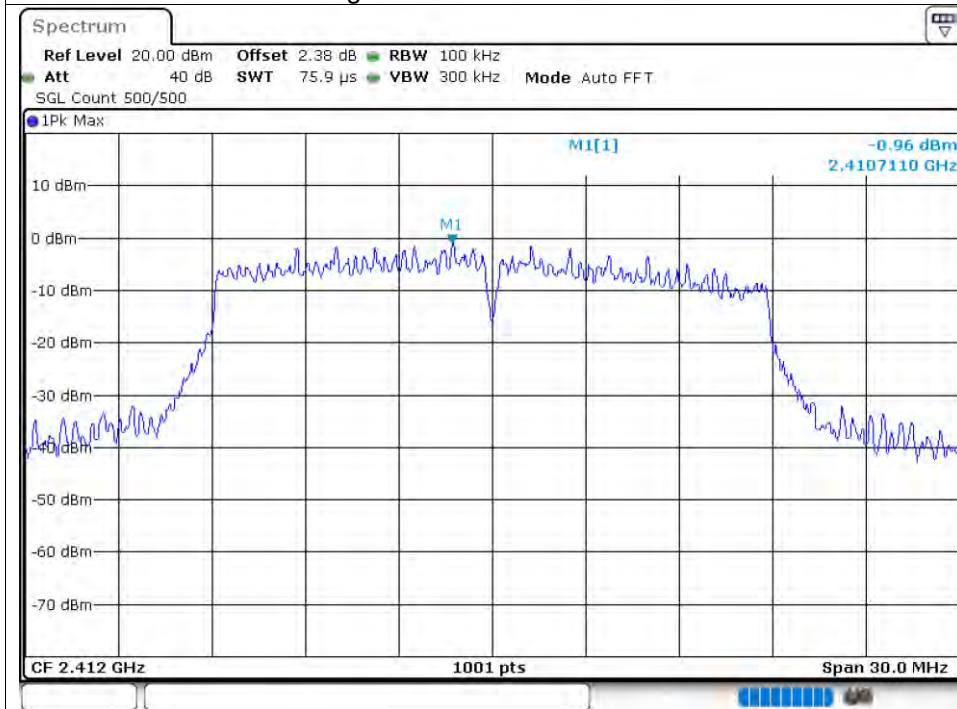
8.2.3 Band Edge

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	n20	2412	Ant1	-32.72	-30	Pass
NVNT	n20	2412	Ant2	-43.82	-30	Pass
NVNT	n20	2462	Ant1	-53.01	-30	Pass
NVNT	n20	2462	Ant2	-51.79	-30	Pass
NVNT	n40	2422	Ant1	-31.88	-30	Pass
NVNT	n40	2422	Ant2	-38.91	-30	Pass
NVNT	n40	2452	Ant1	-47.53	-30	Pass
NVNT	n40	2452	Ant2	-48.06	-30	Pass

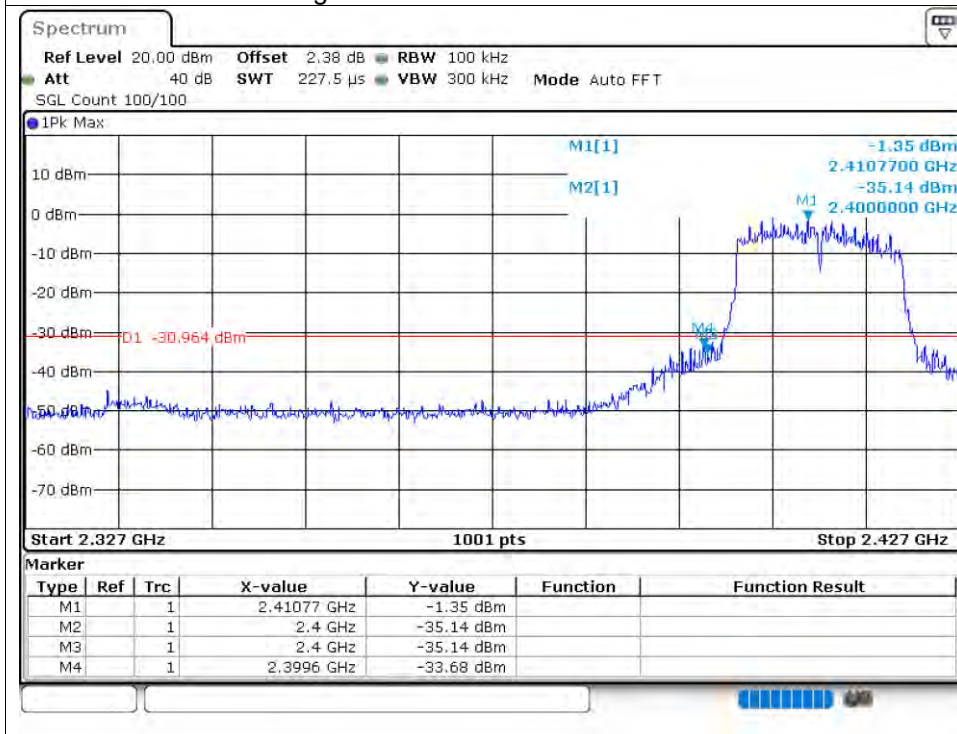
Note: The emissions of Ant 1& Ant 2 both have 3dB margin for the limits, so the MIMO test data is below the limits, this conclusion is based on validation results.

Test Graphs

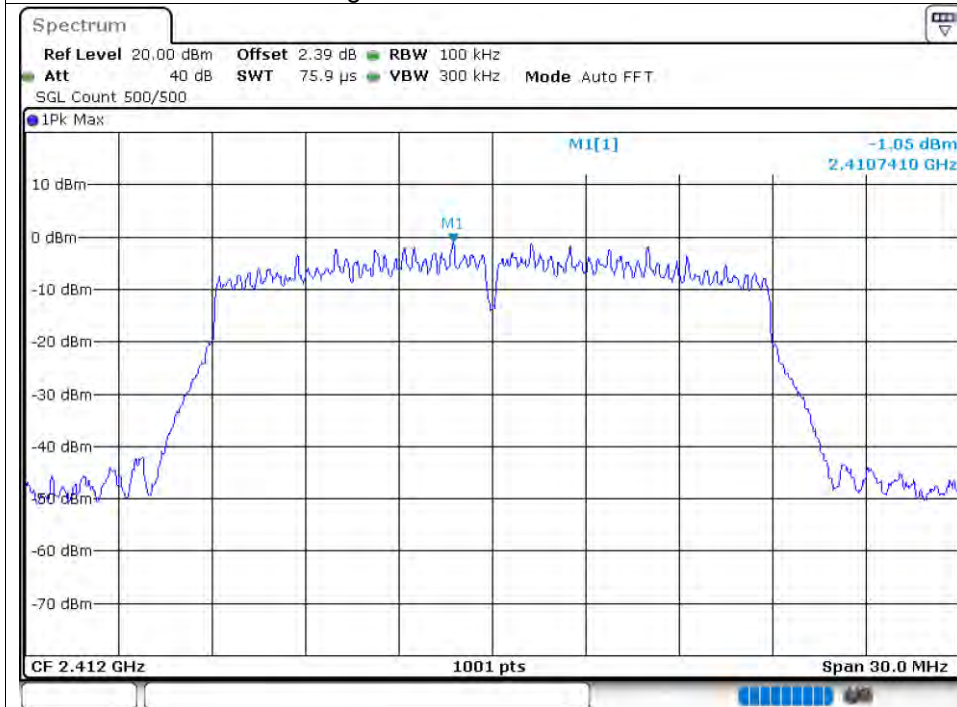
Band Edge NVNT n20 2412MHz Ant1 Ref



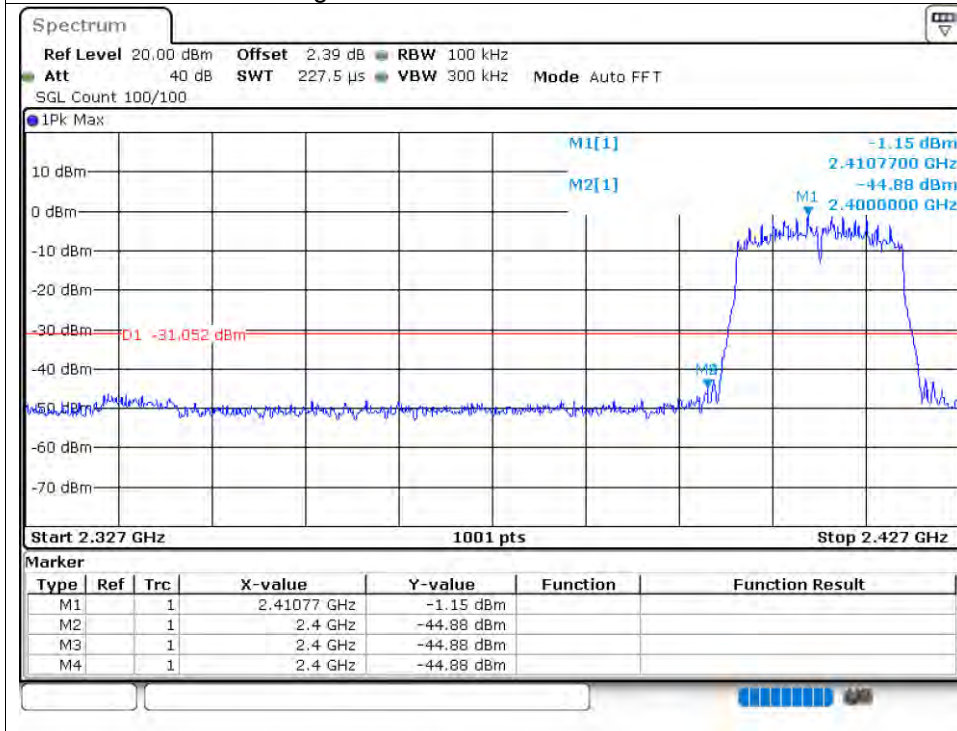
Band Edge NVNT n20 2412MHz Ant1 Emission



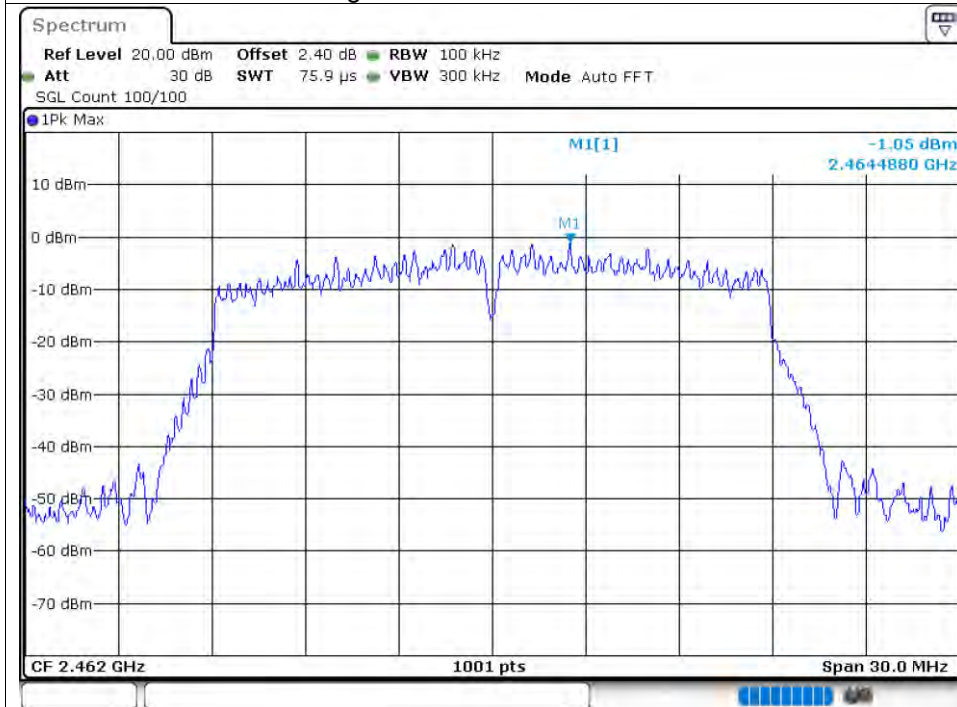
Band Edge NVNT n20 2412MHz Ant2 Ref



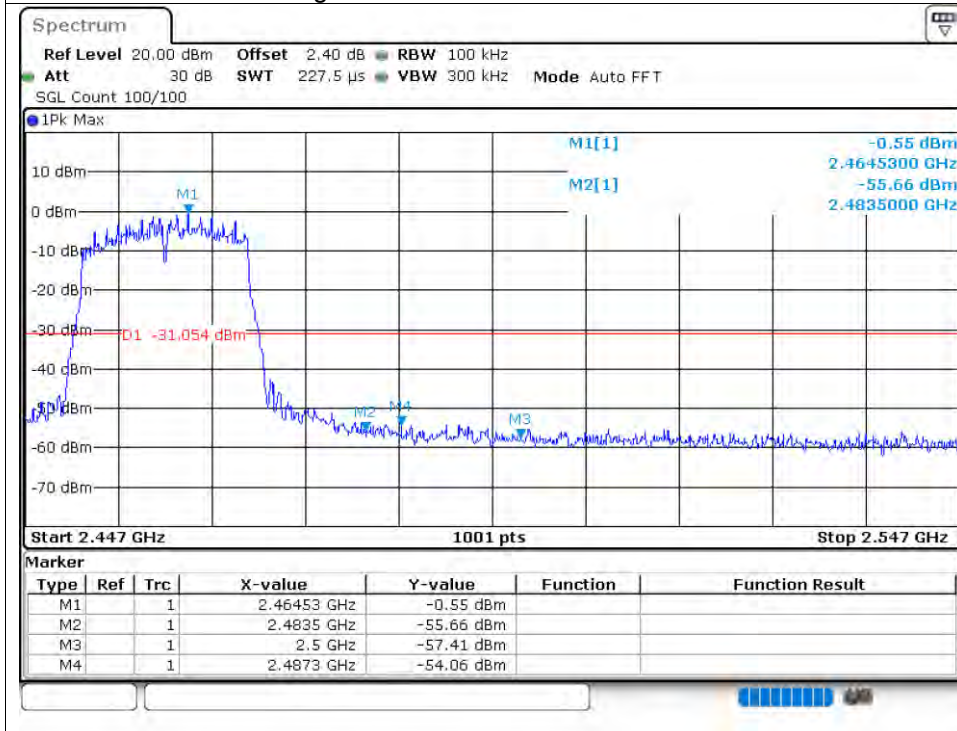
Band Edge NVNT n20 2412MHz Ant2 Emission



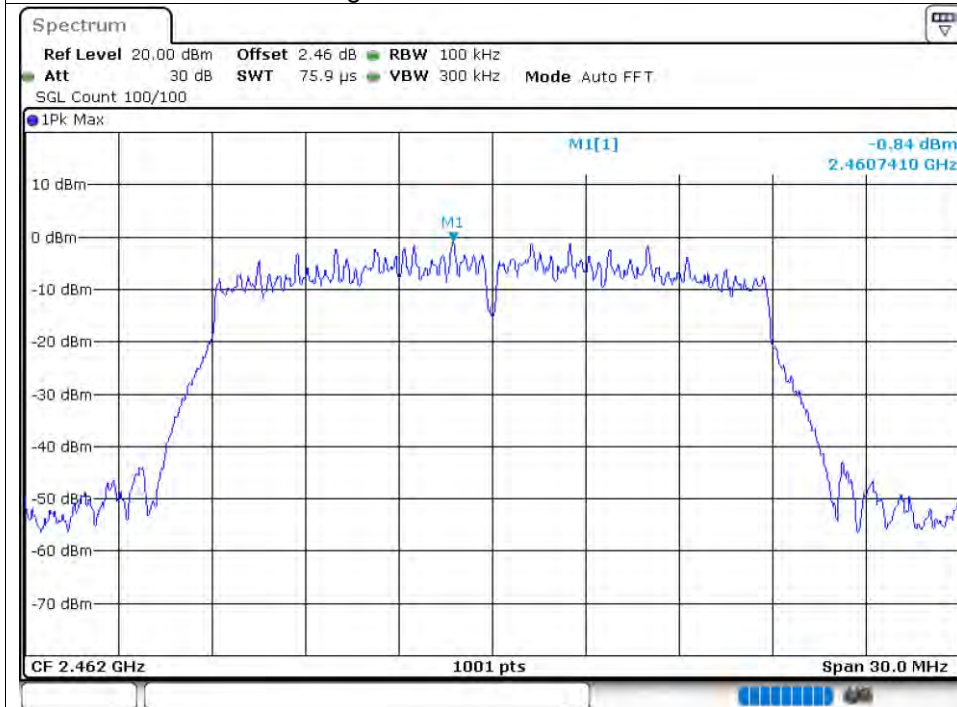
Band Edge NVNT n20 2462MHz Ant1 Ref



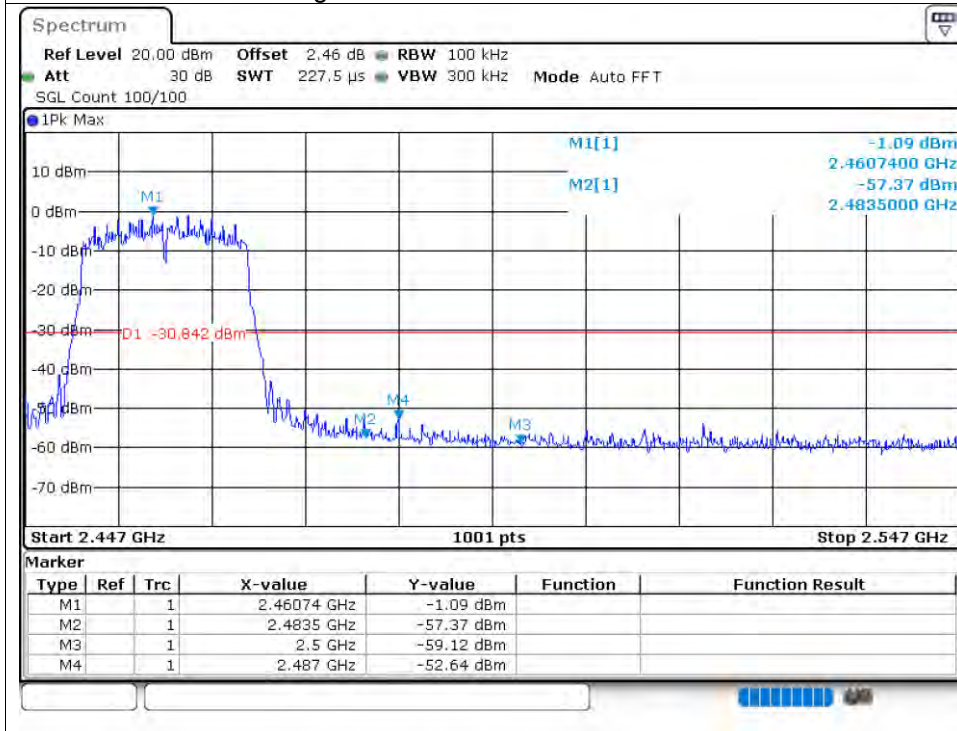
Band Edge NVNT n20 2462MHz Ant1 Emission



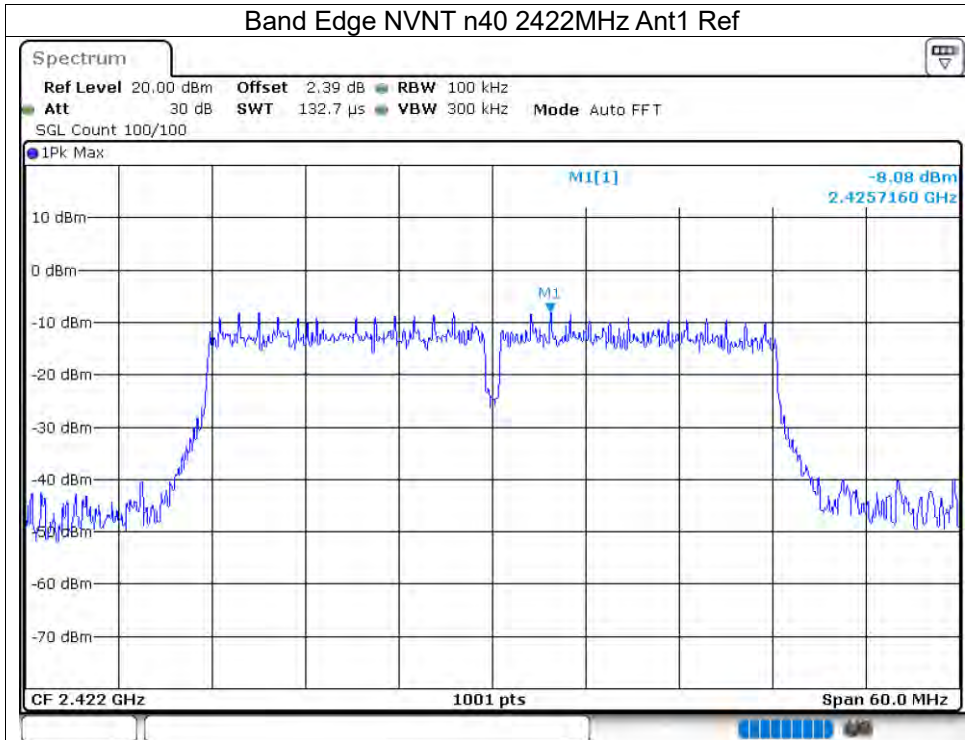
Band Edge NVNT n20 2462MHz Ant2 Ref



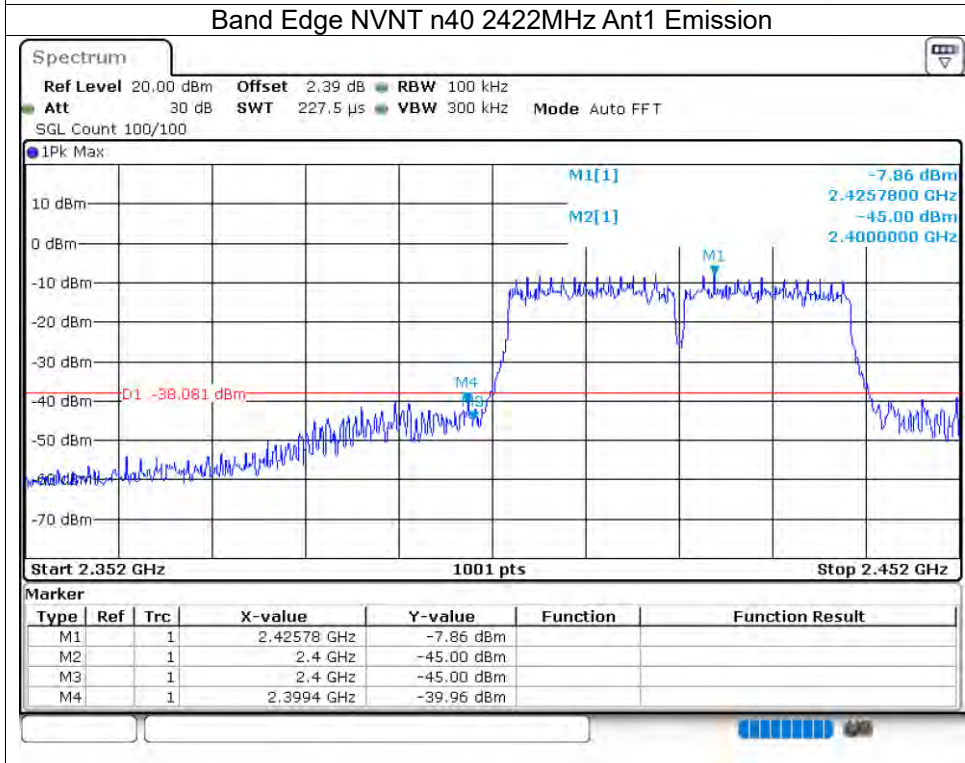
Band Edge NVNT n20 2462MHz Ant2 Emission



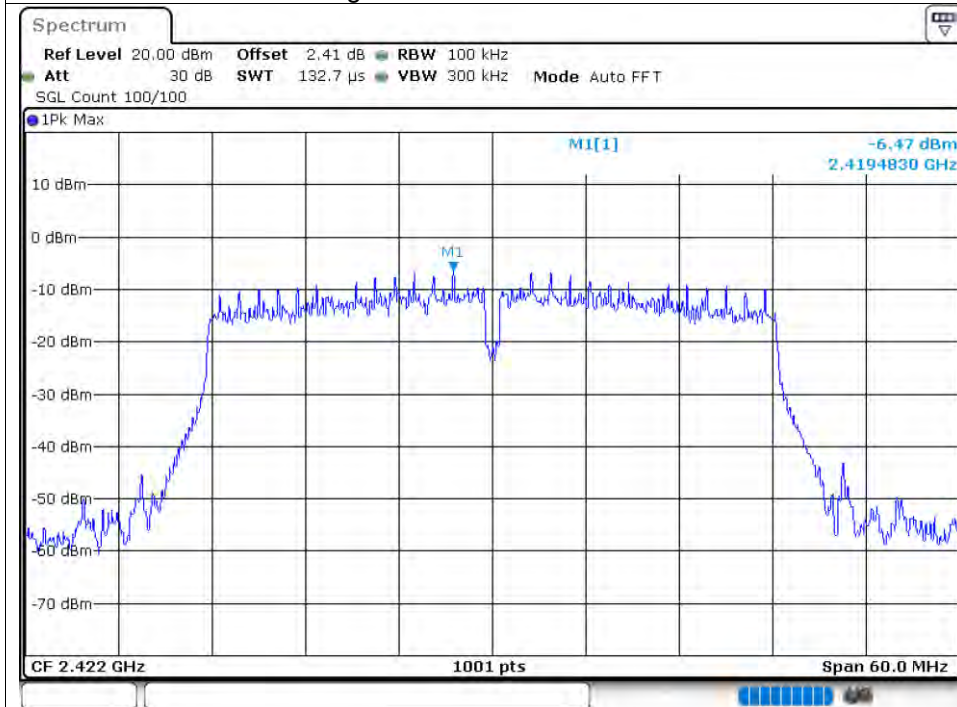
Band Edge NVNT n40 2422MHz Ant1 Ref



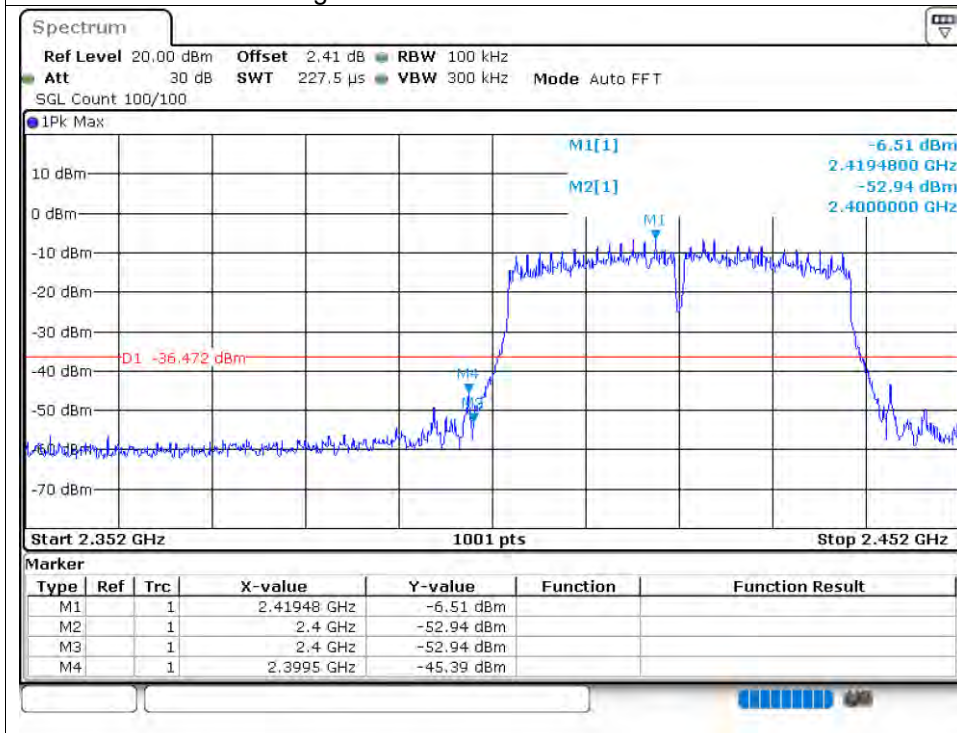
Band Edge NVNT n40 2422MHz Ant1 Emission

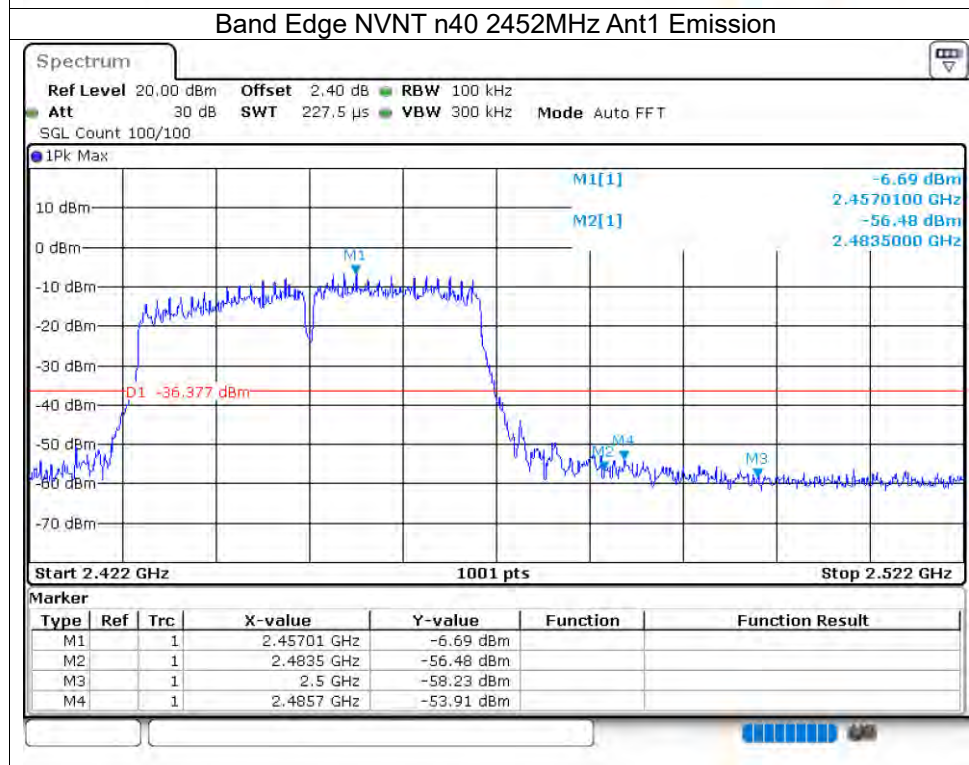
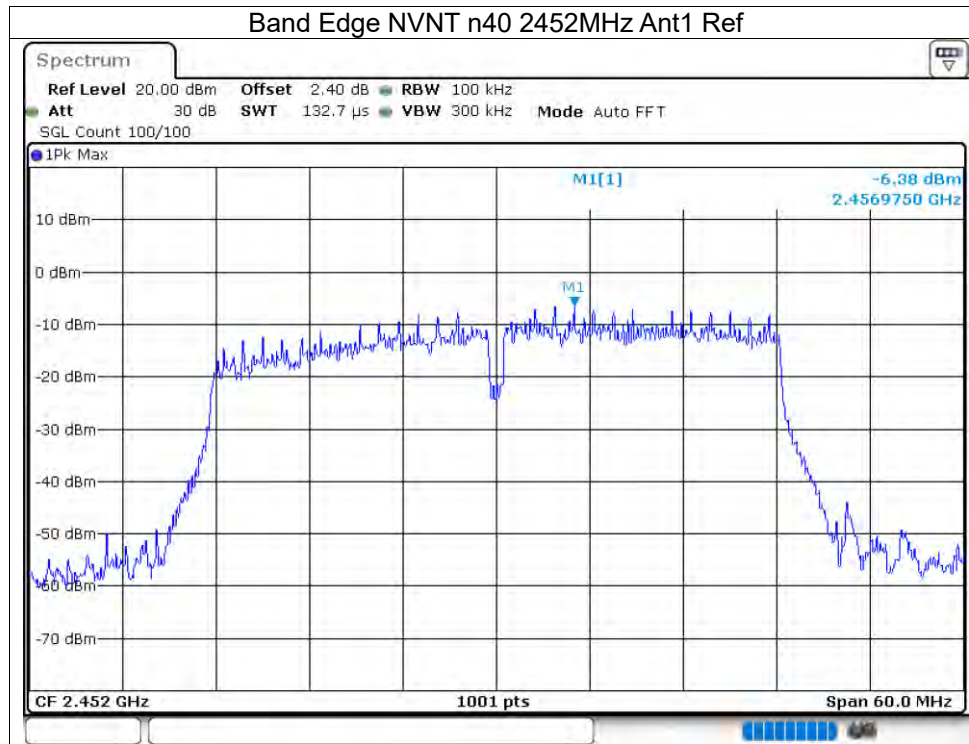


Band Edge NVNT n40 2422MHz Ant2 Ref

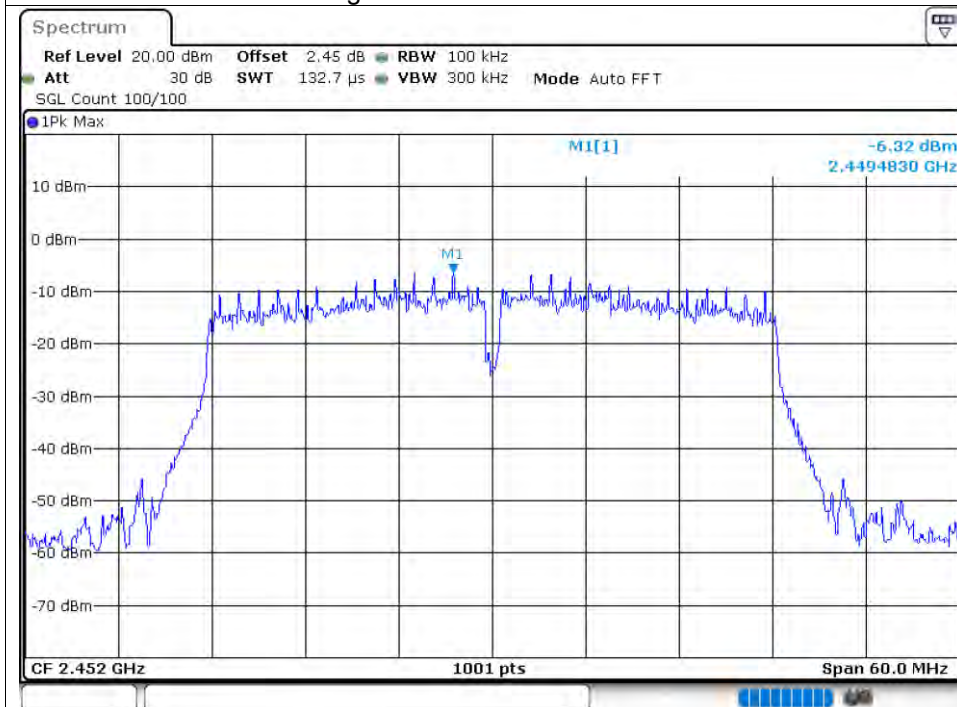


Band Edge NVNT n40 2422MHz Ant2 Emission

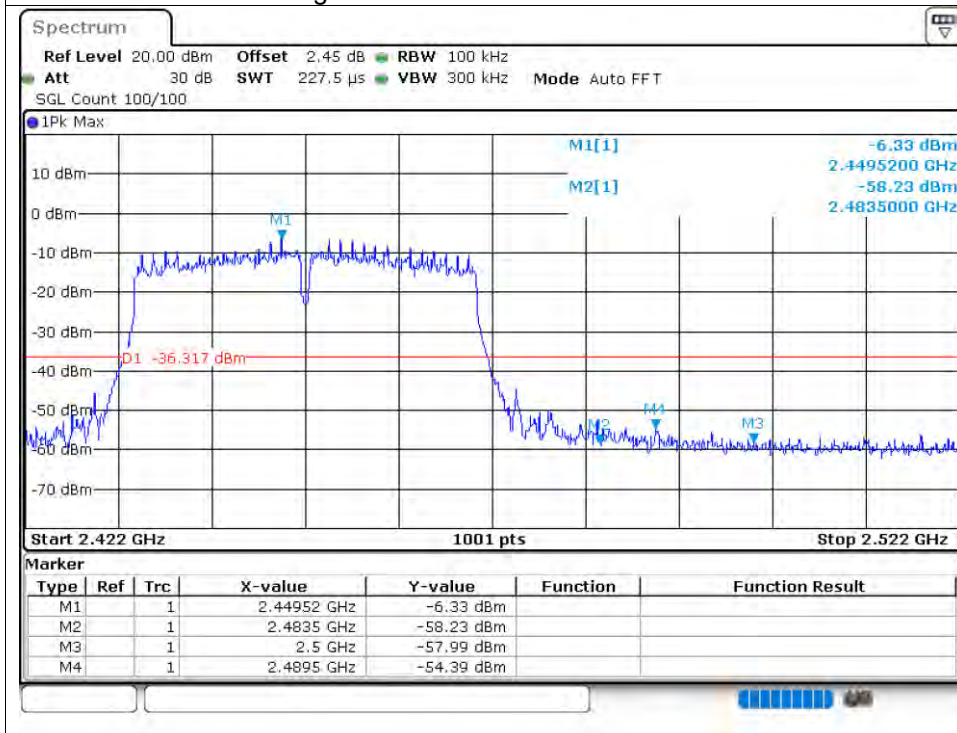




Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission



8.2.4 Conducted RF Spurious Emission

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	n20	2412	Ant1	-49.7	-30	Pass
NVNT	n20	2412	Ant2	-49.54	-30	Pass
NVNT	n20	2437	Ant1	-49.68	-30	Pass
NVNT	n20	2437	Ant2	-49.59	-30	Pass
NVNT	n20	2462	Ant1	-49.43	-30	Pass
NVNT	n20	2462	Ant2	-49.69	-30	Pass
NVNT	n40	2422	Ant1	-42.79	-30	Pass
NVNT	n40	2422	Ant2	-43.49	-30	Pass
NVNT	n40	2437	Ant1	-43.55	-30	Pass
NVNT	n40	2437	Ant2	-43.79	-30	Pass
NVNT	n40	2452	Ant1	-44.35	-30	Pass
NVNT	n40	2452	Ant2	-44.33	-30	Pass

Note: The emissions of Ant 1& Ant 2 both have 3dB margin for the limits, so the MIMO test data is below the limits, this conclusion is based on validation results.

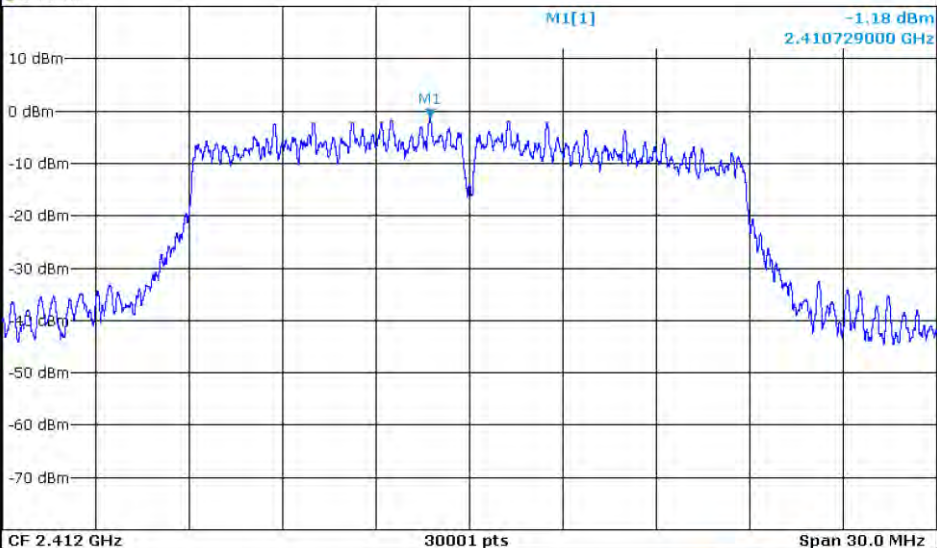
Test Graphs

Tx. Spurious NVNT n20 2412MHz Ant1 Ref

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 30 dB SWT 75.9 μ s VBW 300 kHz Mode Auto FFT
SGL Count 100/100

1Pk Max

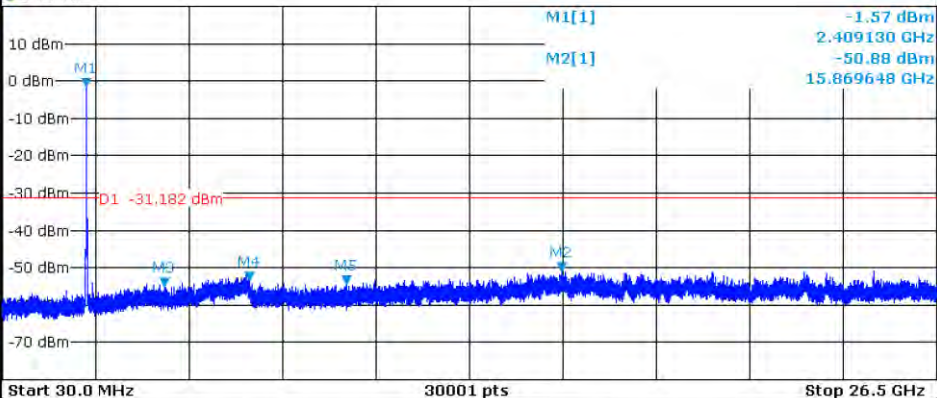


Tx. Spurious NVNT n20 2412MHz Ant1 Emission

Spectrum

Ref Level 20.00 dBm Offset 2.38 dB RBW 100 kHz
Att 30 dB SWT 265 ms VBW 300 kHz Mode Auto Sweep
SGL Count 10/10

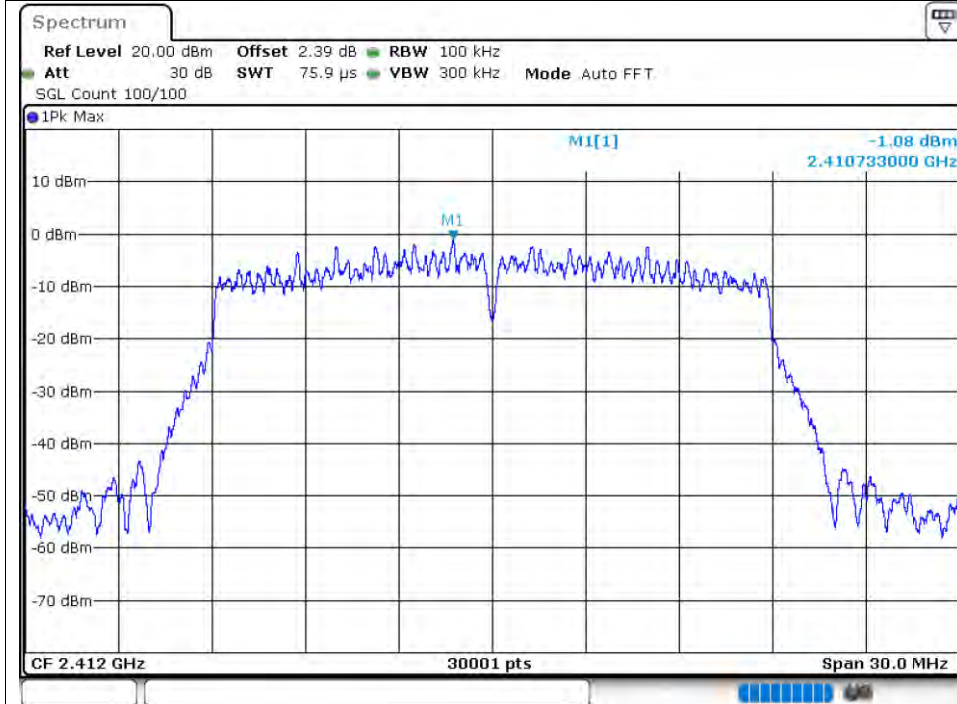
1Pk Max



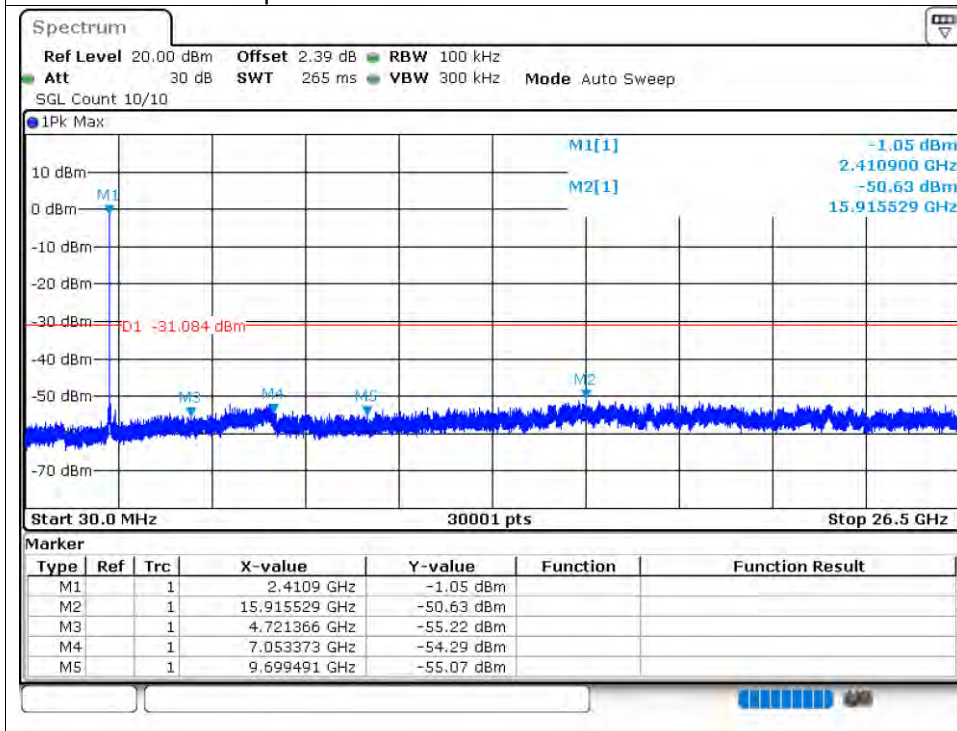
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1		2.40913 GHz	-1.57 dBm		
M2	1		15.869648 GHz	-50.88 dBm		
M3	1		4.629604 GHz	-55.04 dBm		
M4	1		7.037491 GHz	-53.35 dBm		
M5	1		9.779783 GHz	-54.35 dBm		

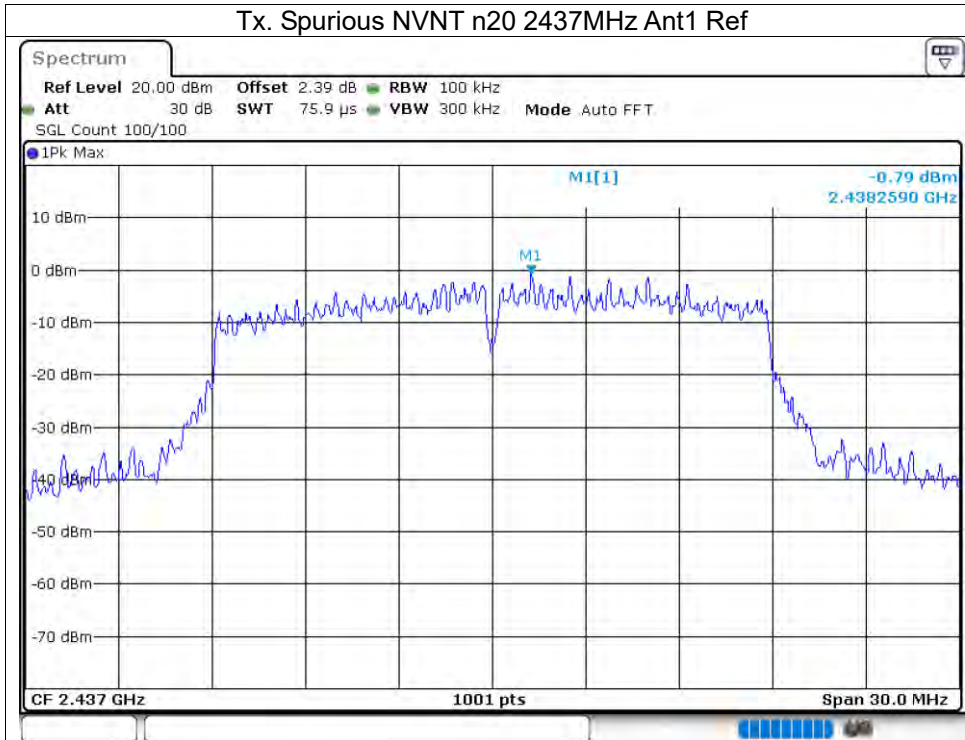
Tx. Spurious NVNT n20 2412MHz Ant2 Ref



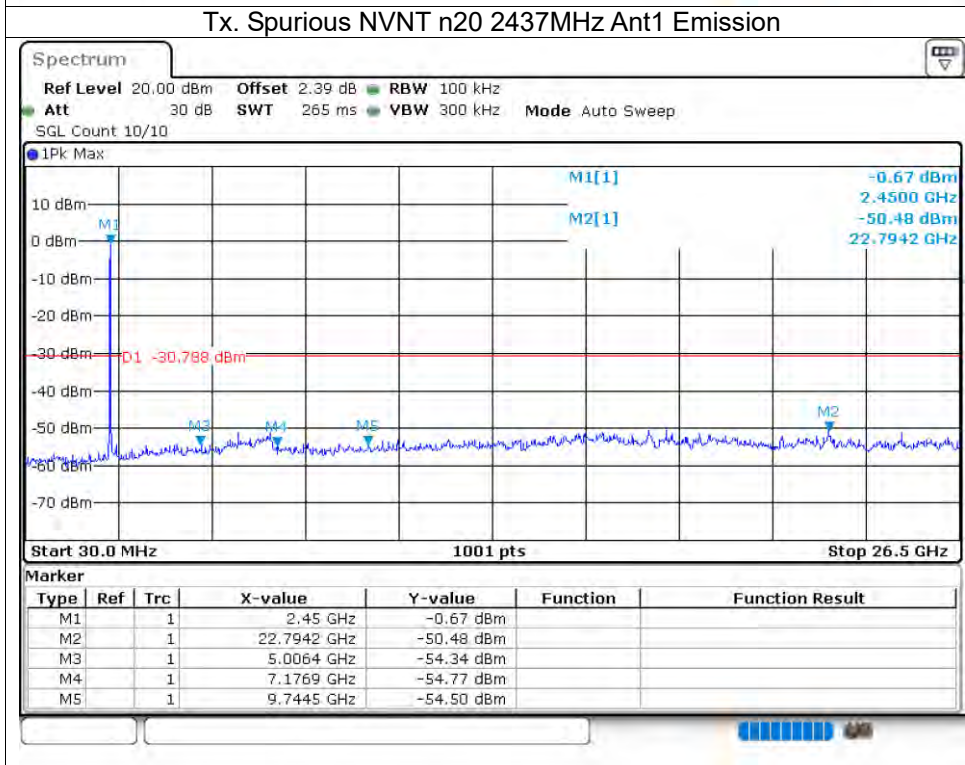
Tx. Spurious NVNT n20 2412MHz Ant2 Emission



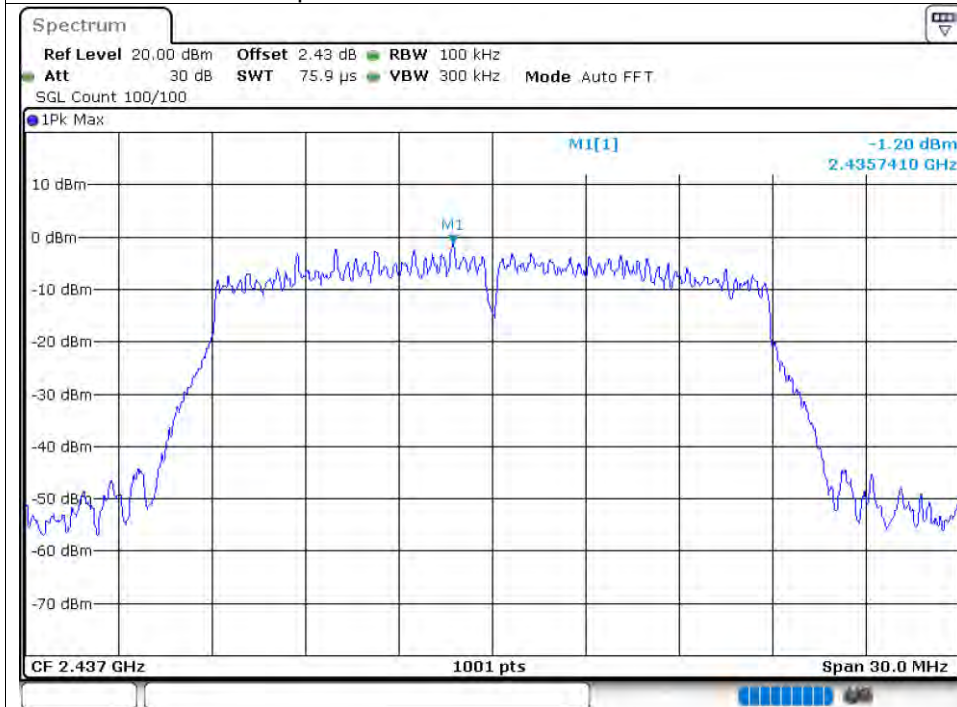
Tx. Spurious NVNT n20 2437MHz Ant1 Ref



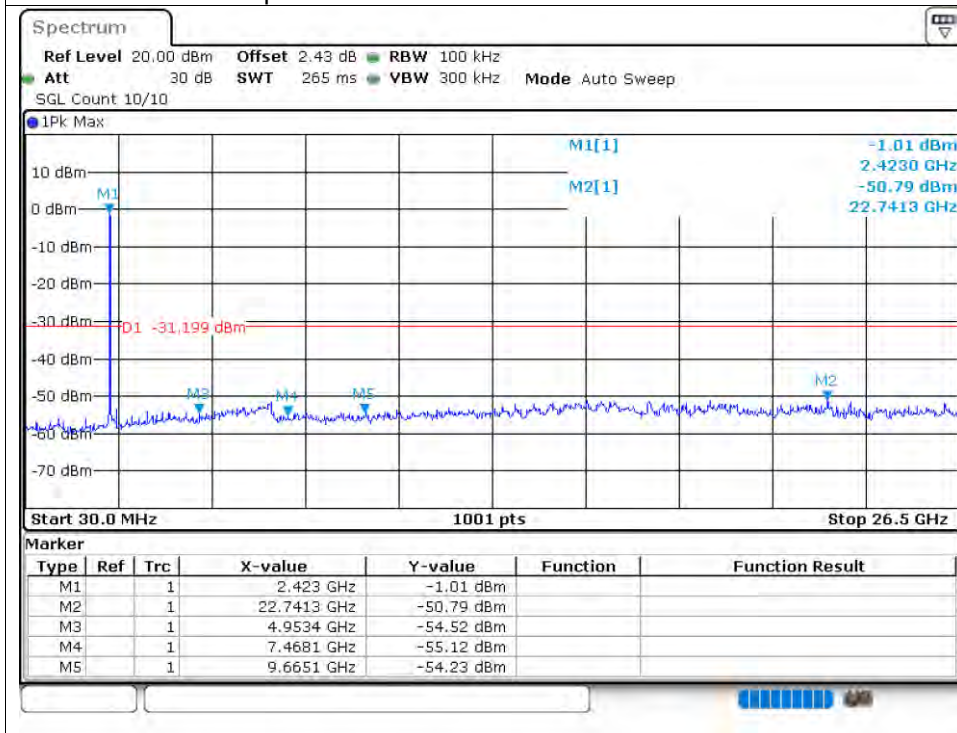
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



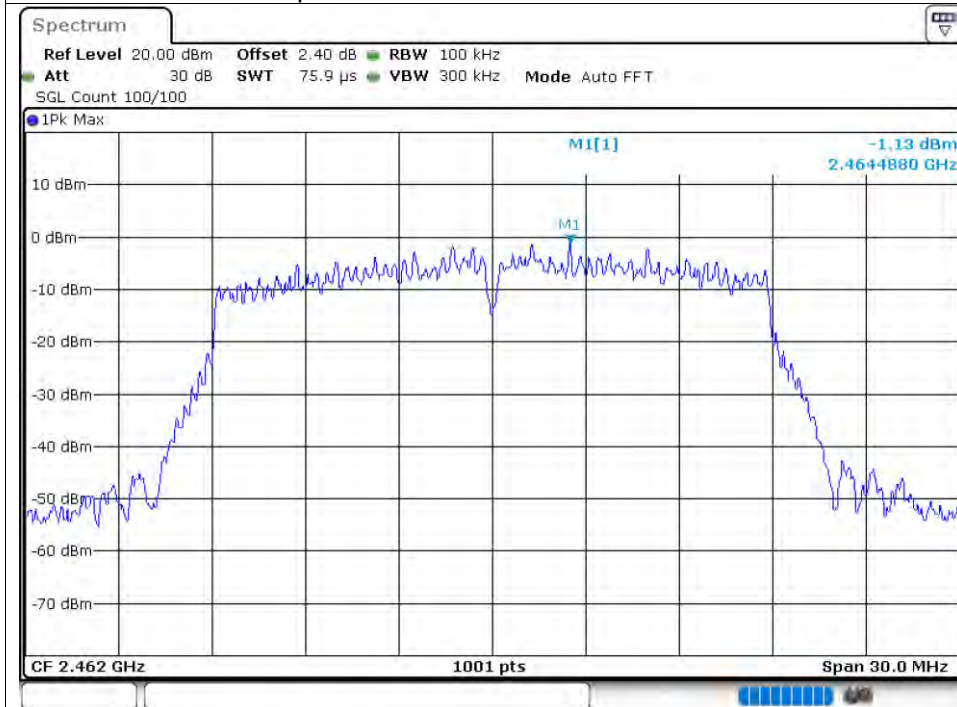
Tx. Spurious NVNT n20 2437MHz Ant2 Ref



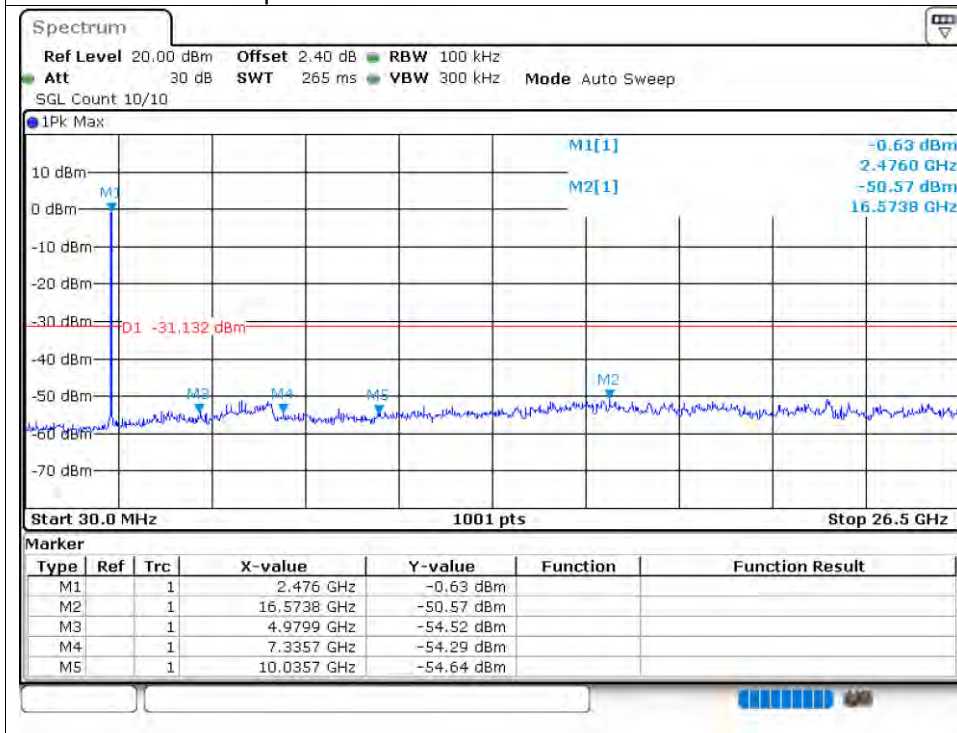
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



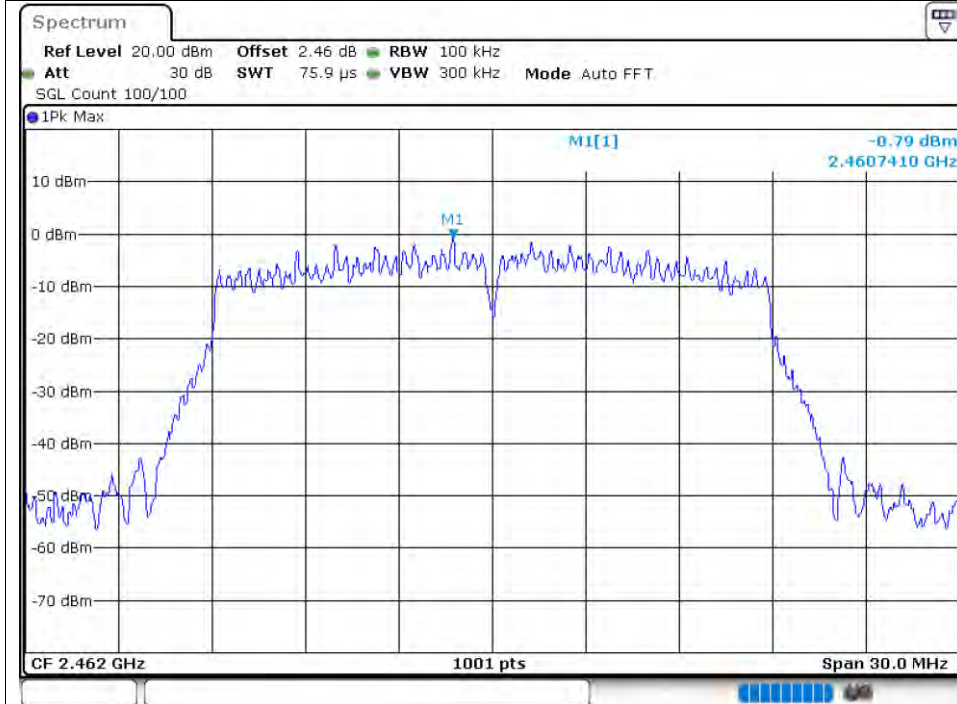
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



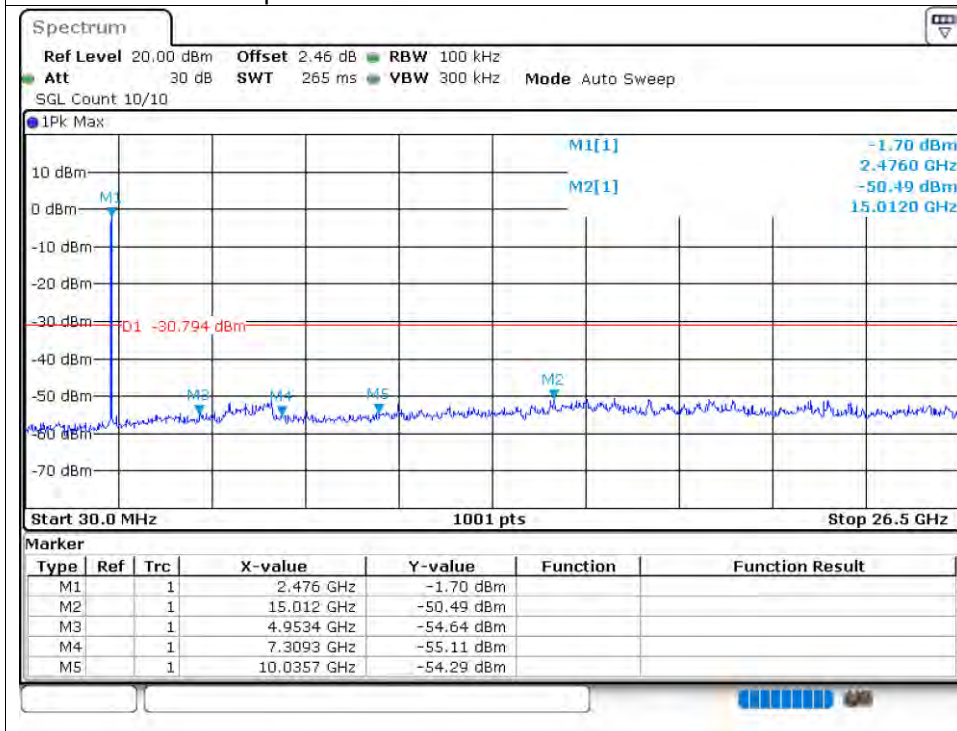
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



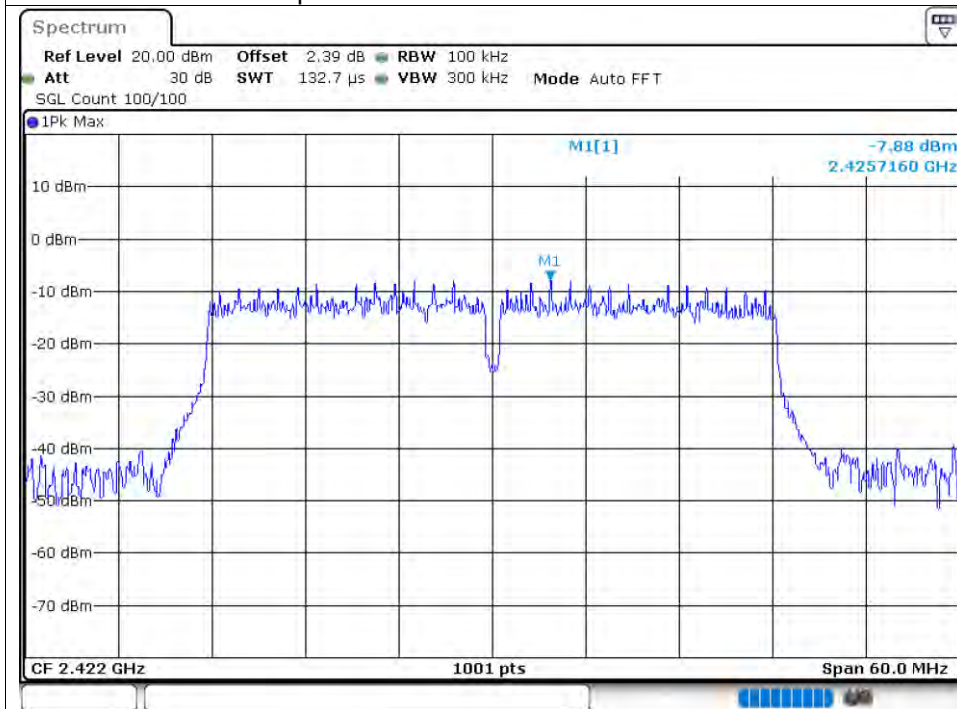
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



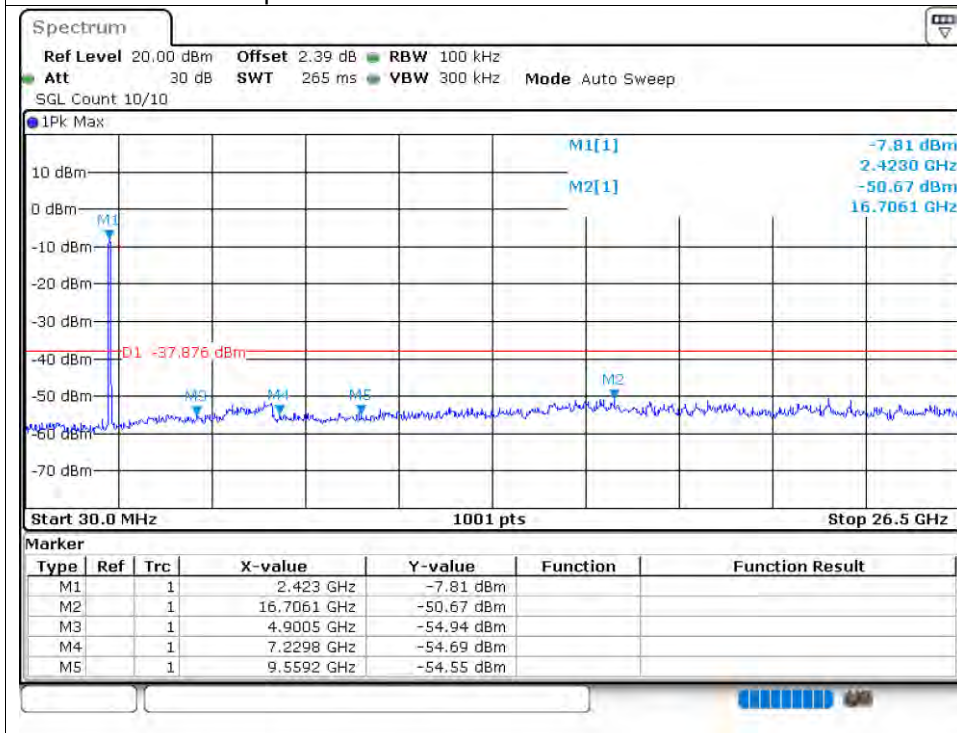
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



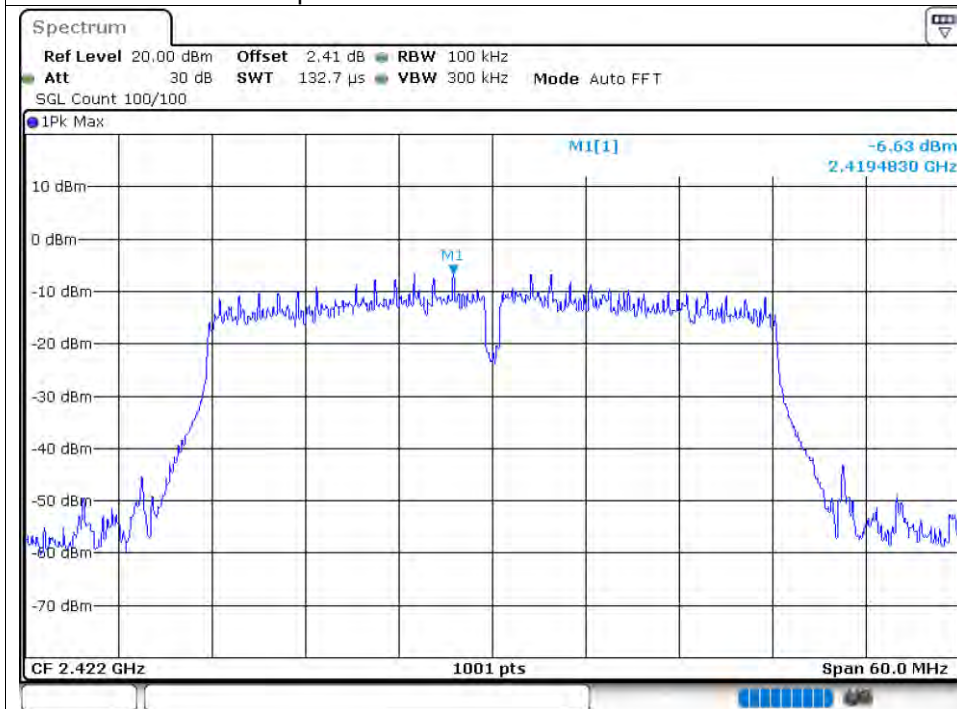
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



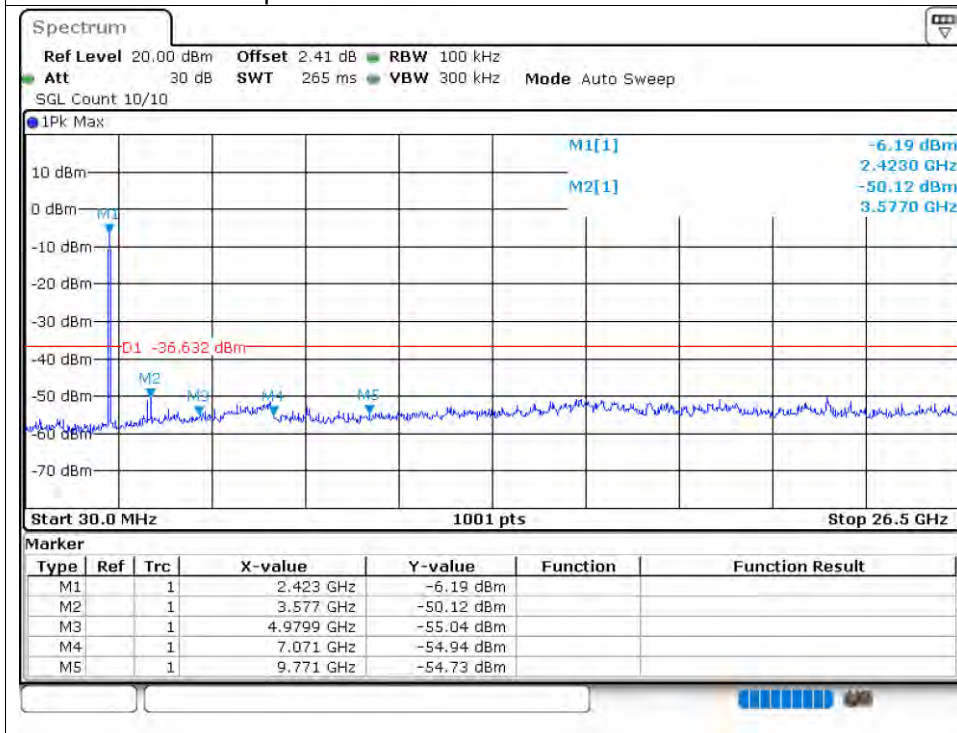
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



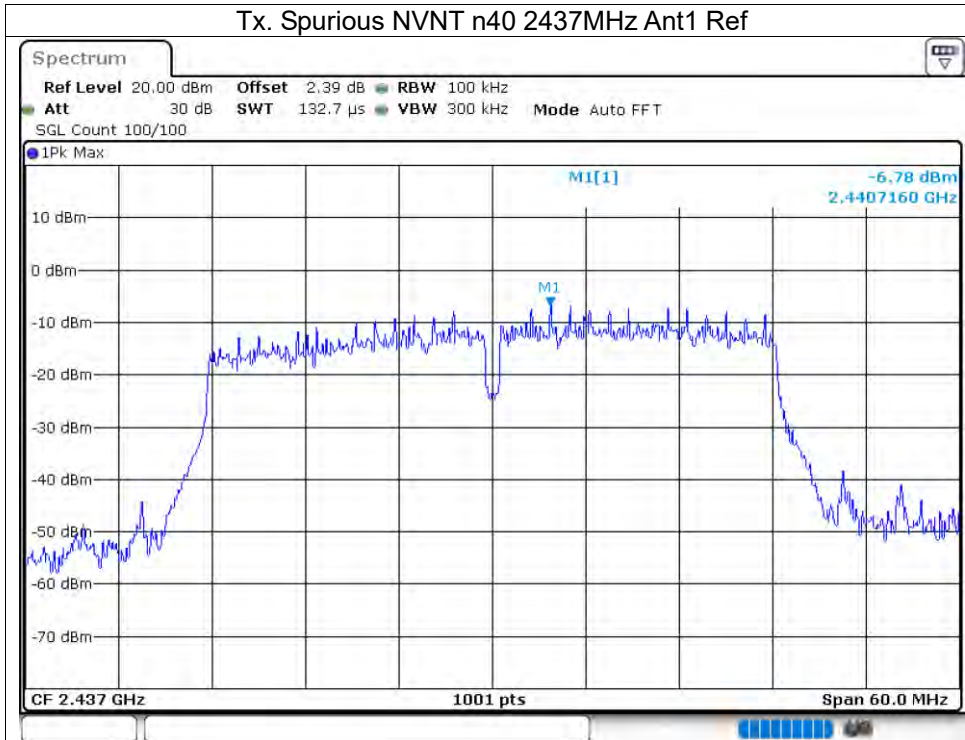
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



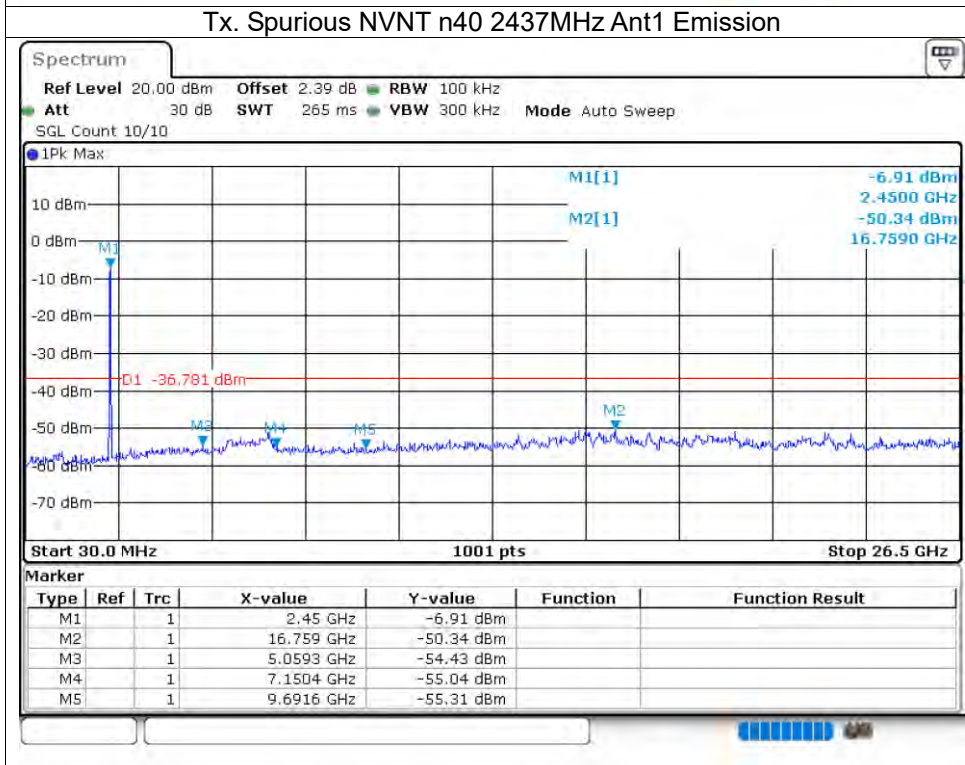
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



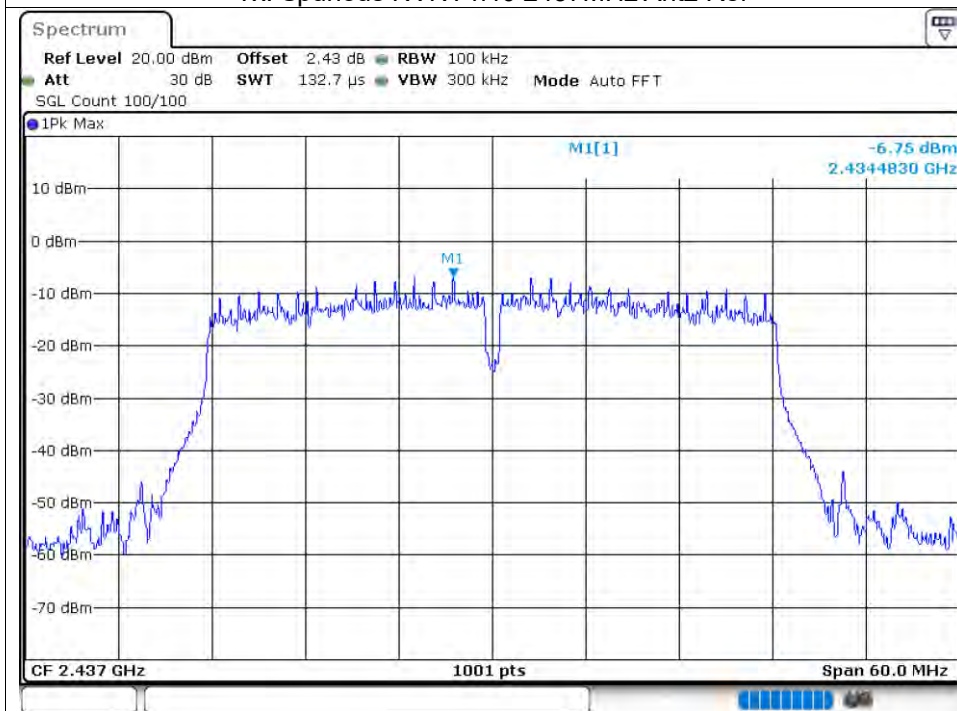
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



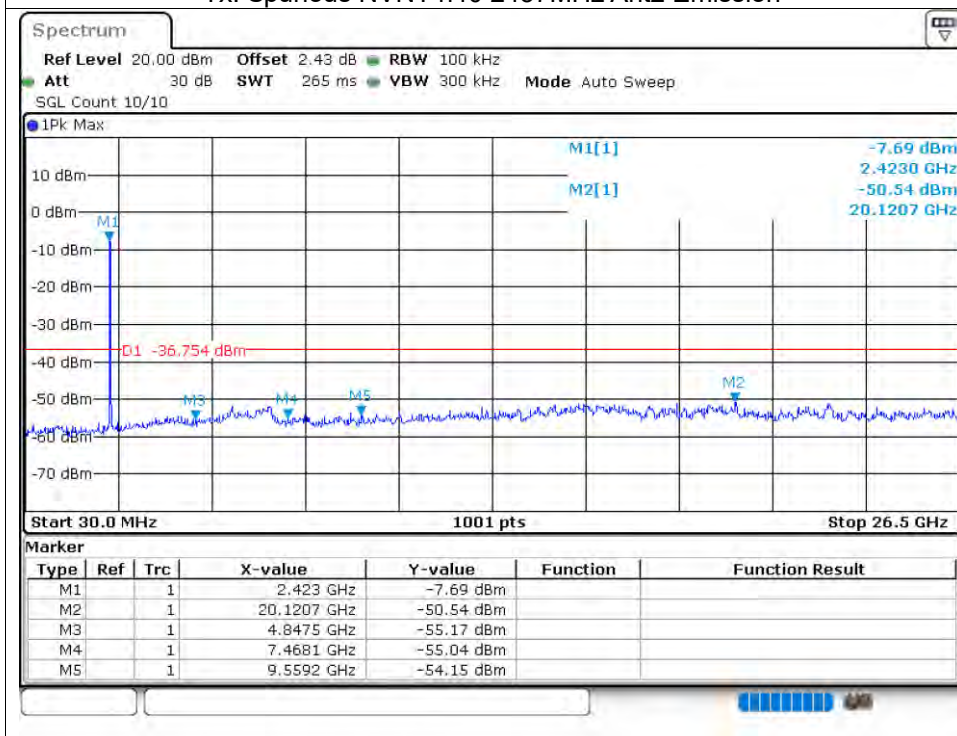
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



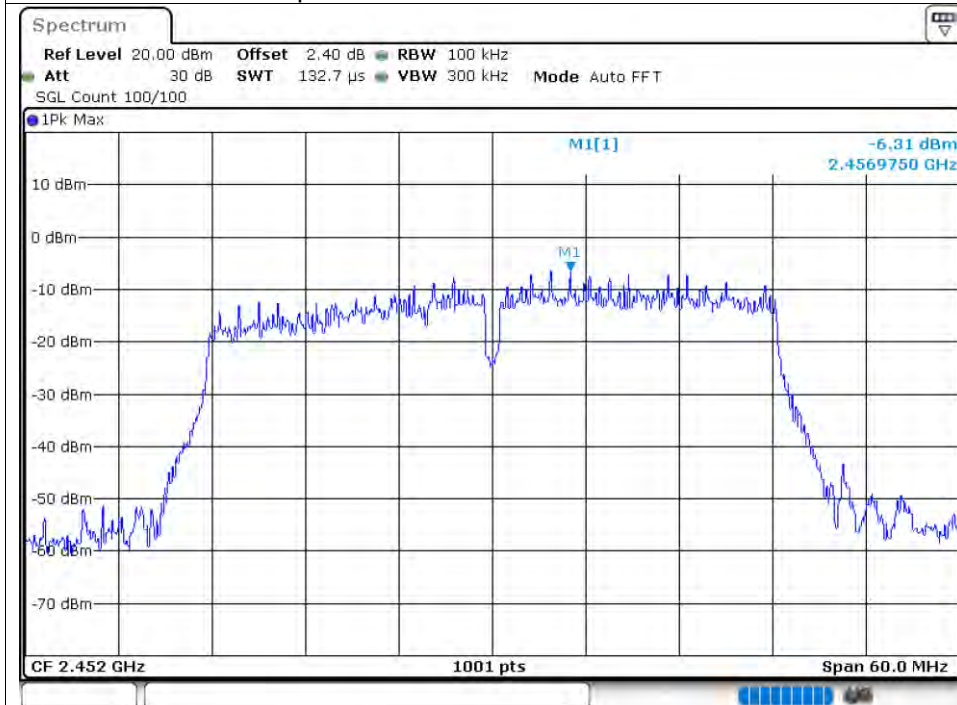
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



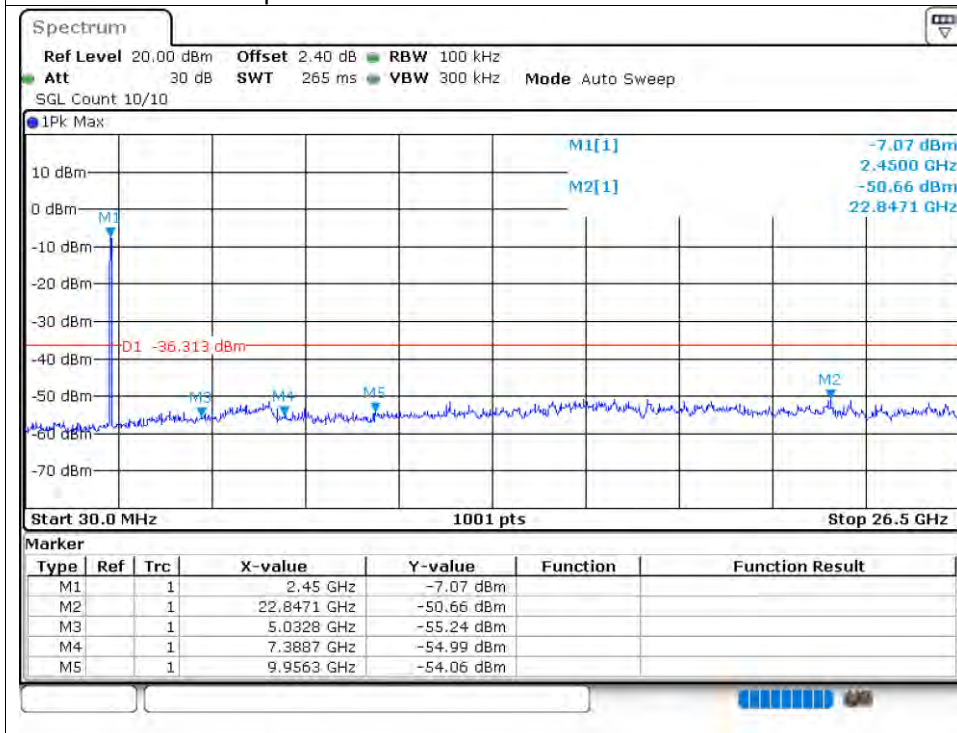
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



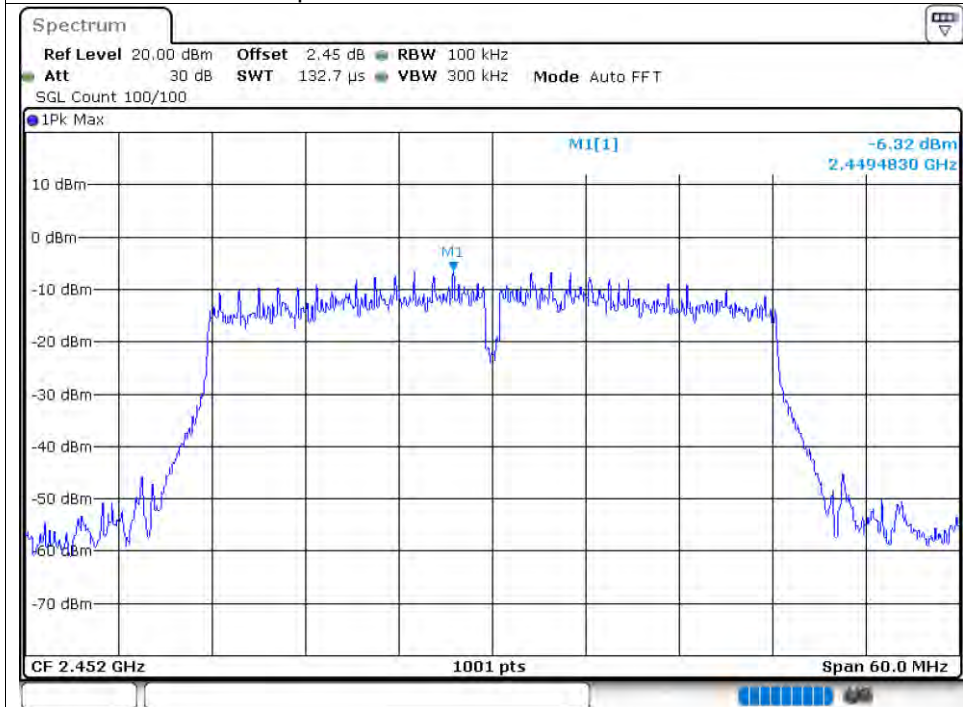
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



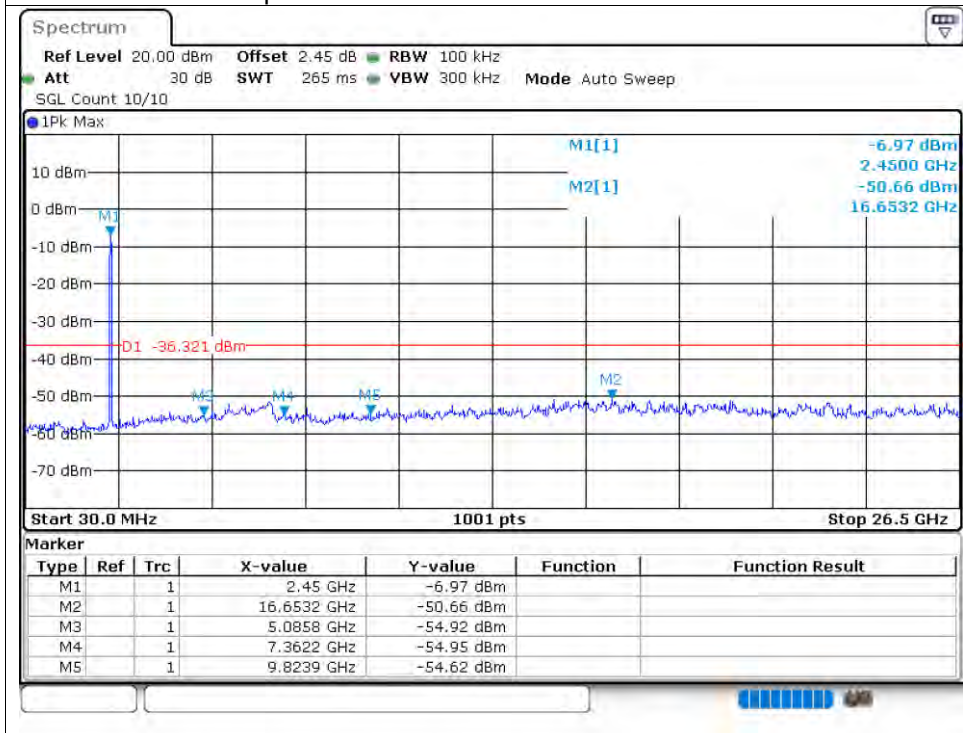
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



END OF REPORT