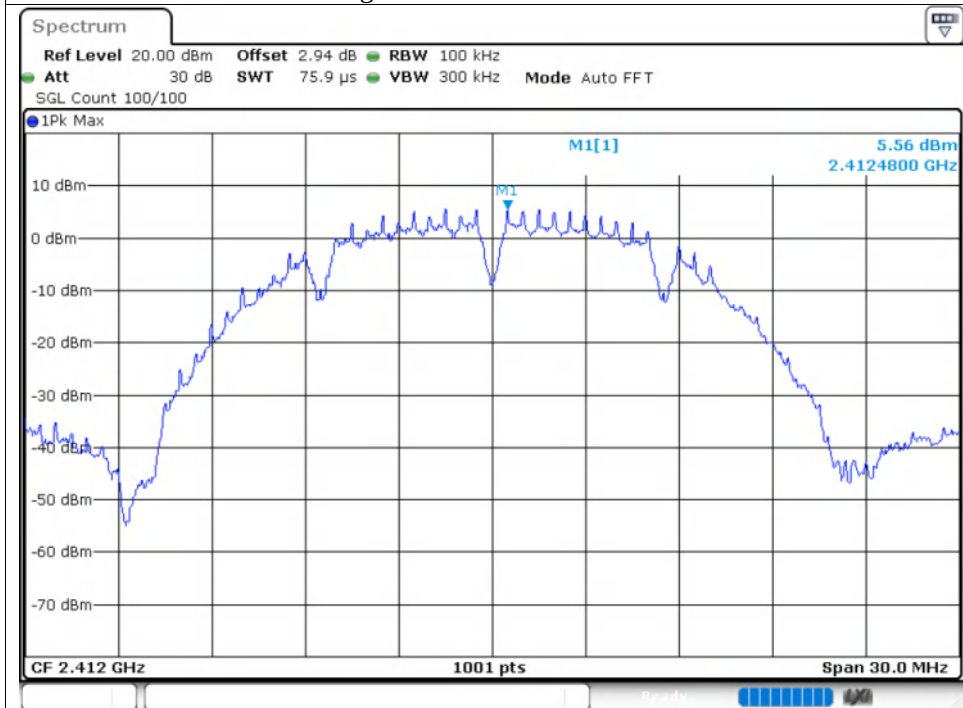
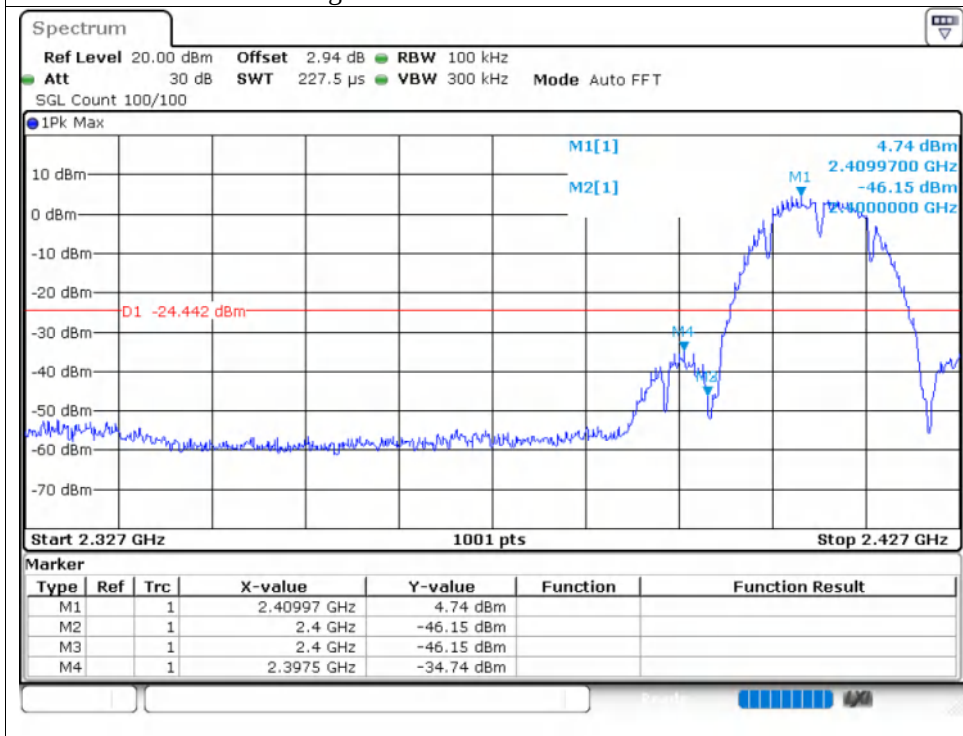


Test Graphs

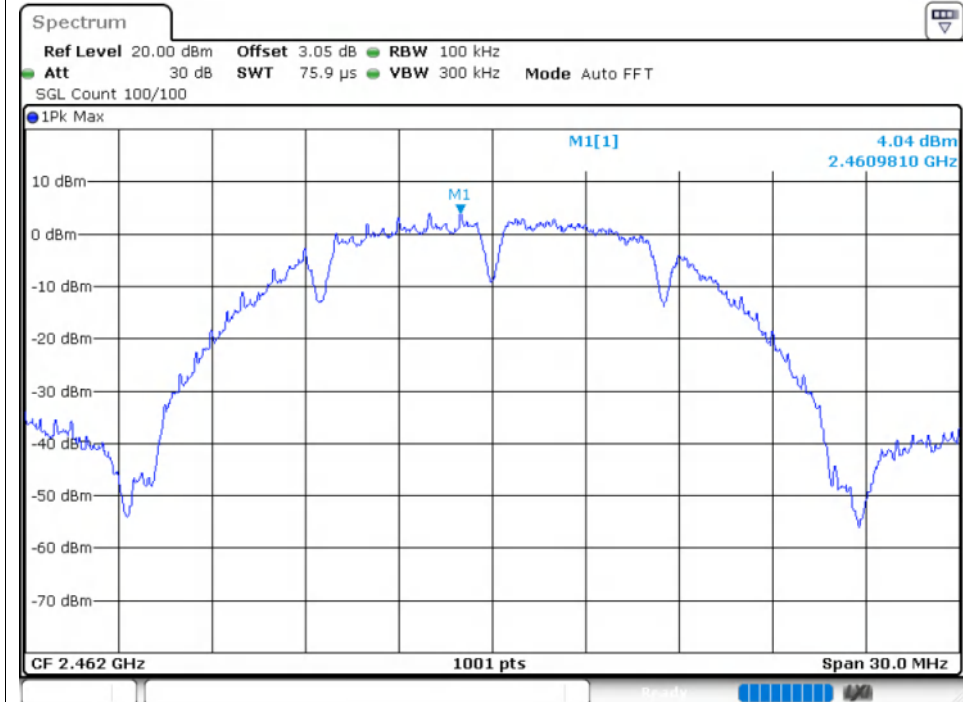
Band Edge NVNT b 2412MHz Ant1 Ref



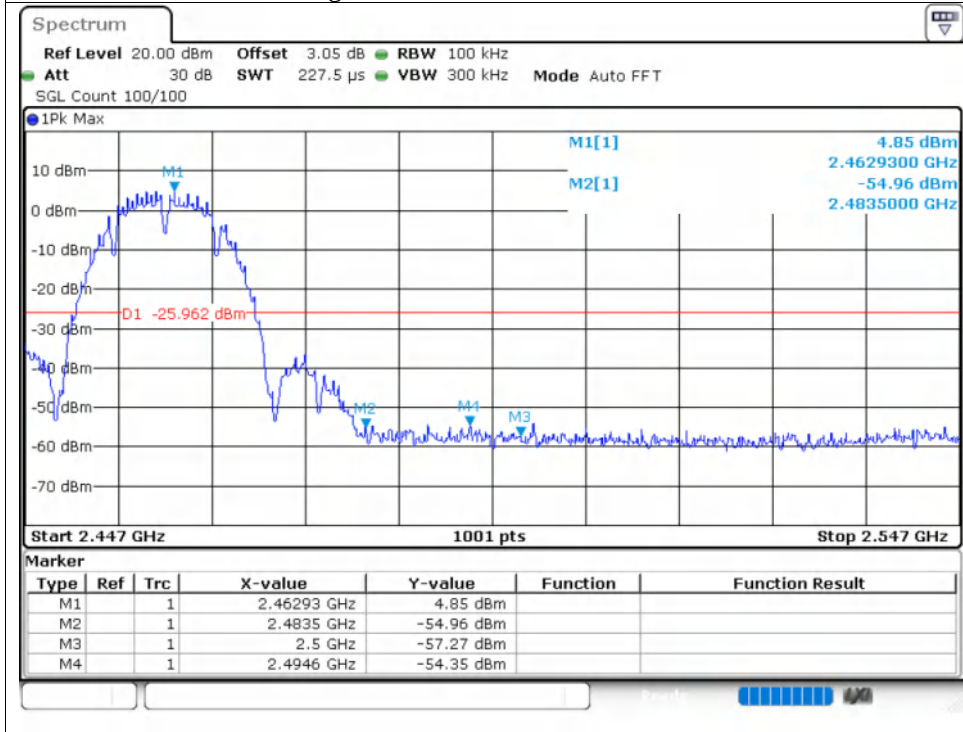
Band Edge NVNT b 2412MHz Ant1 Emission

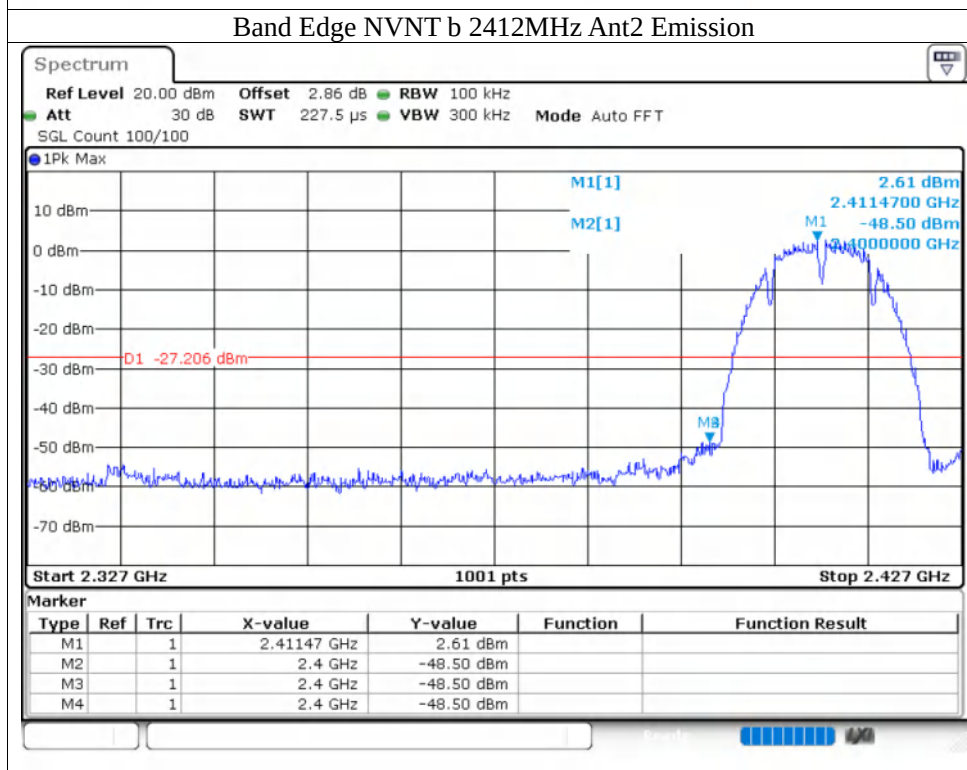
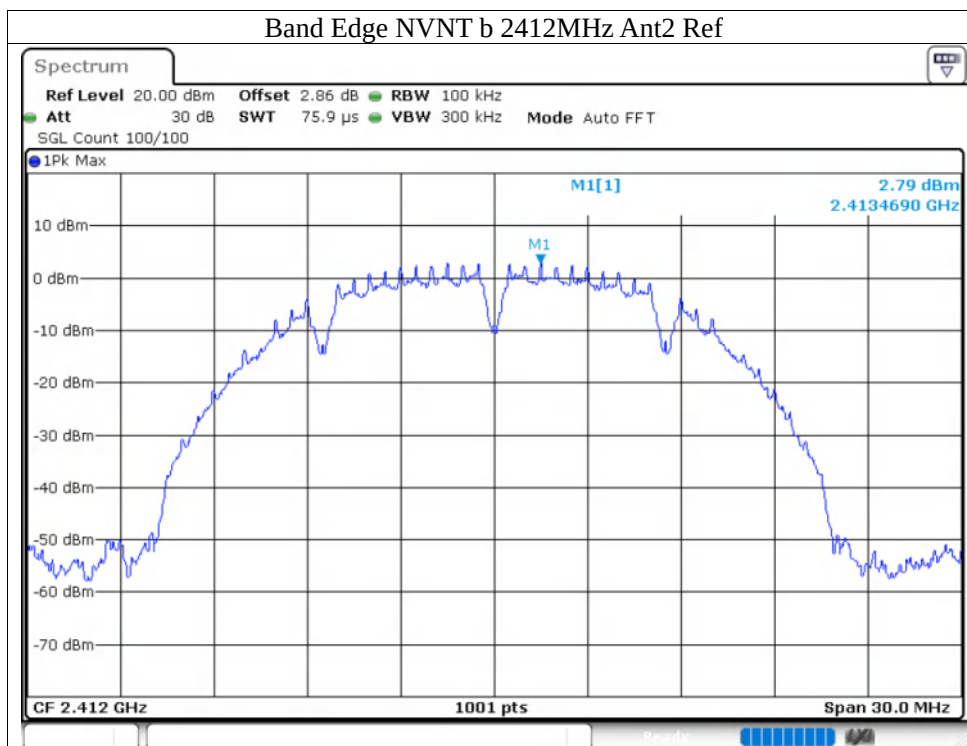


Band Edge NVNT b 2462MHz Ant1 Ref

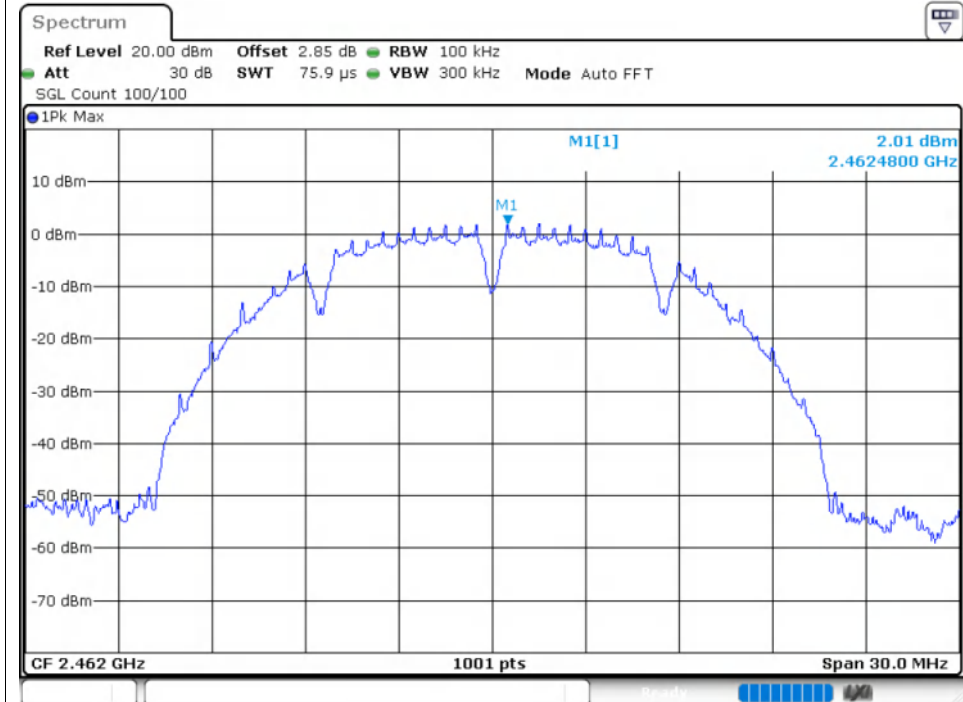


Band Edge NVNT b 2462MHz Ant1 Emission

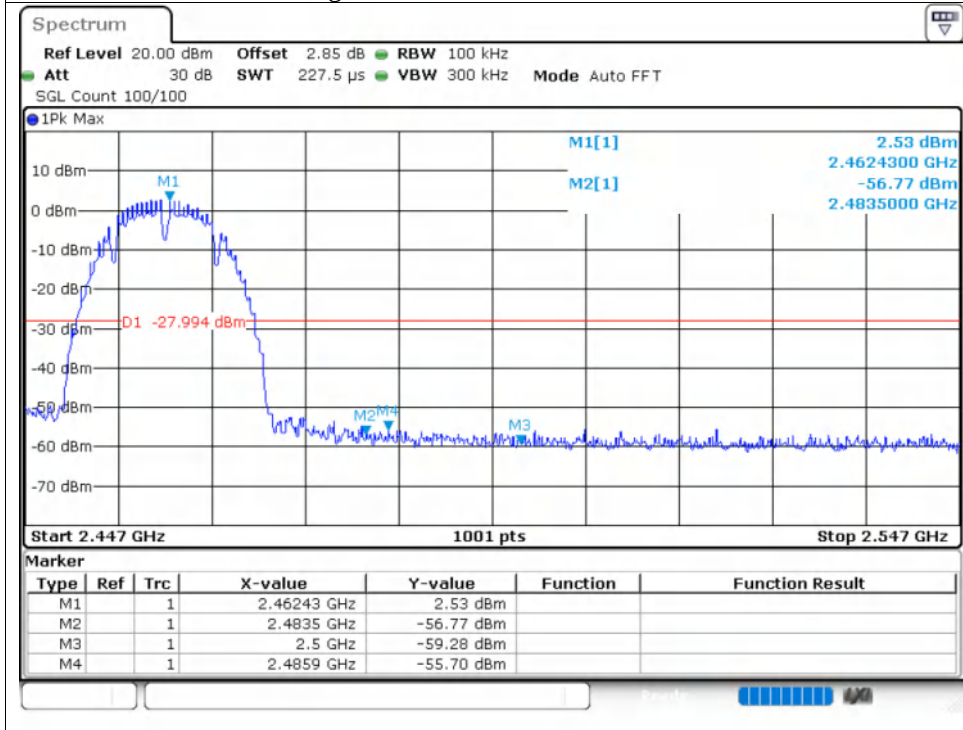


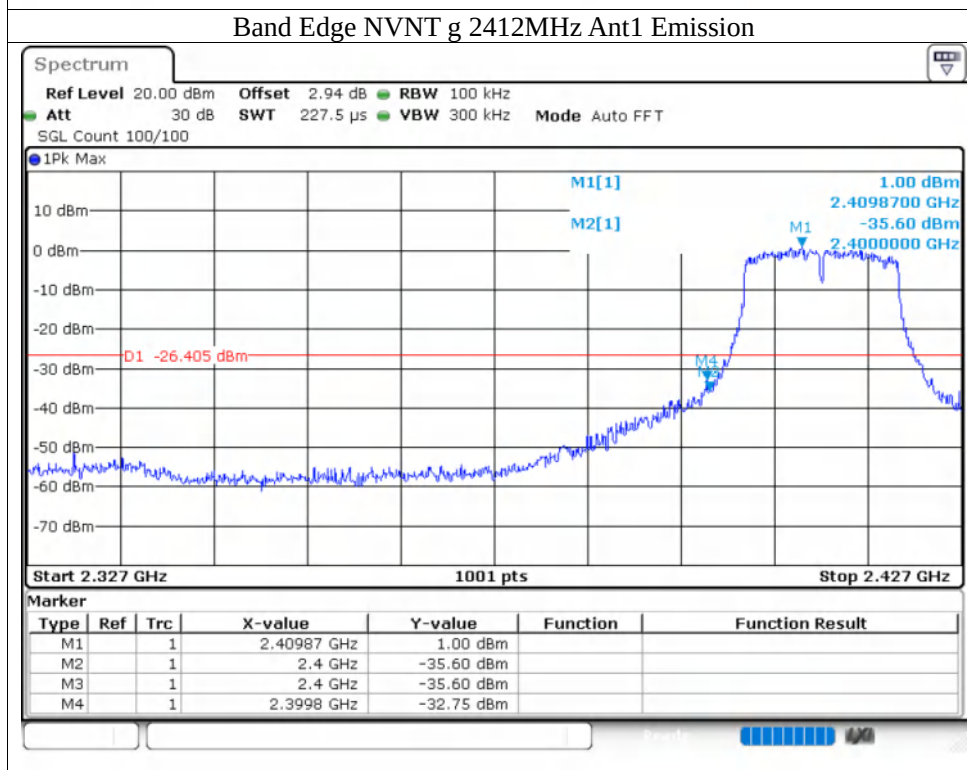
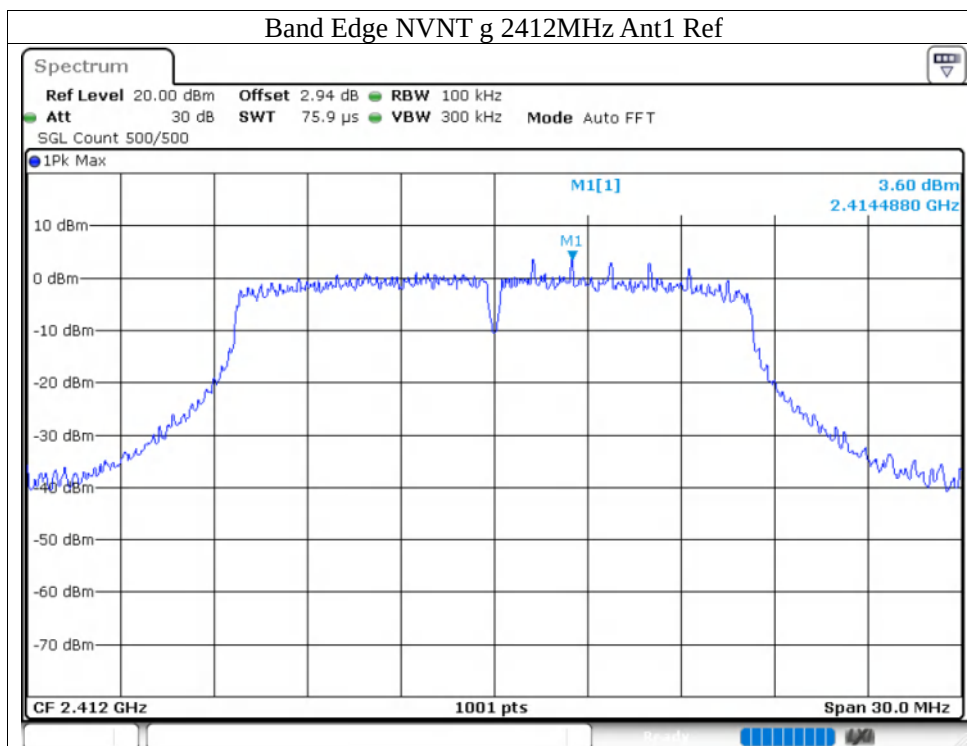


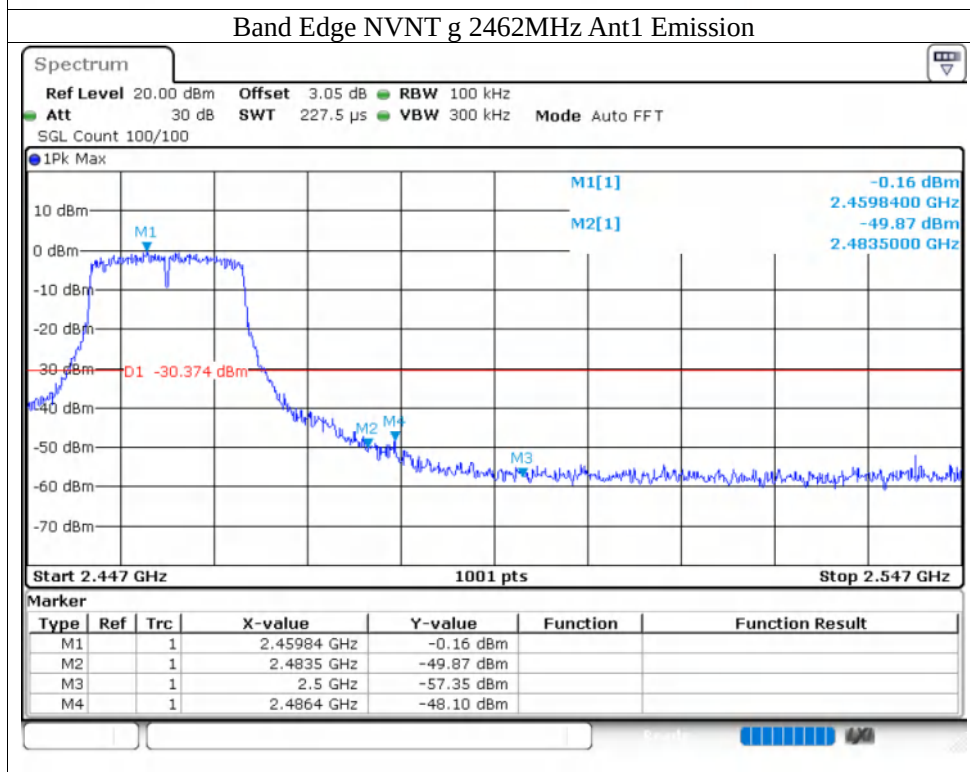
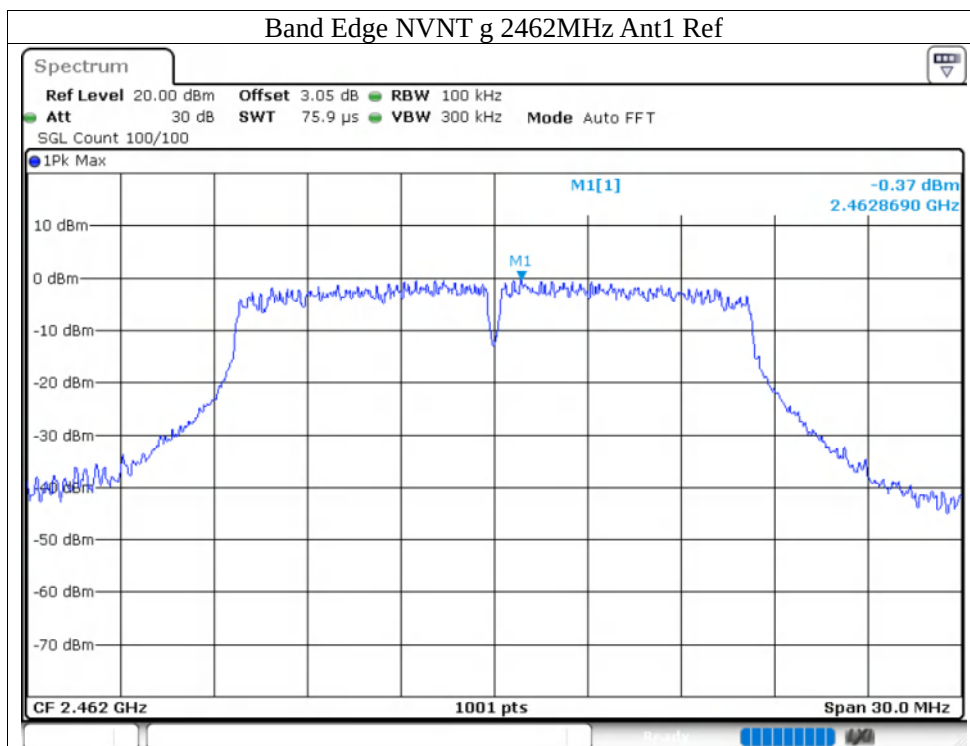
Band Edge NVNT b 2462MHz Ant2 Ref

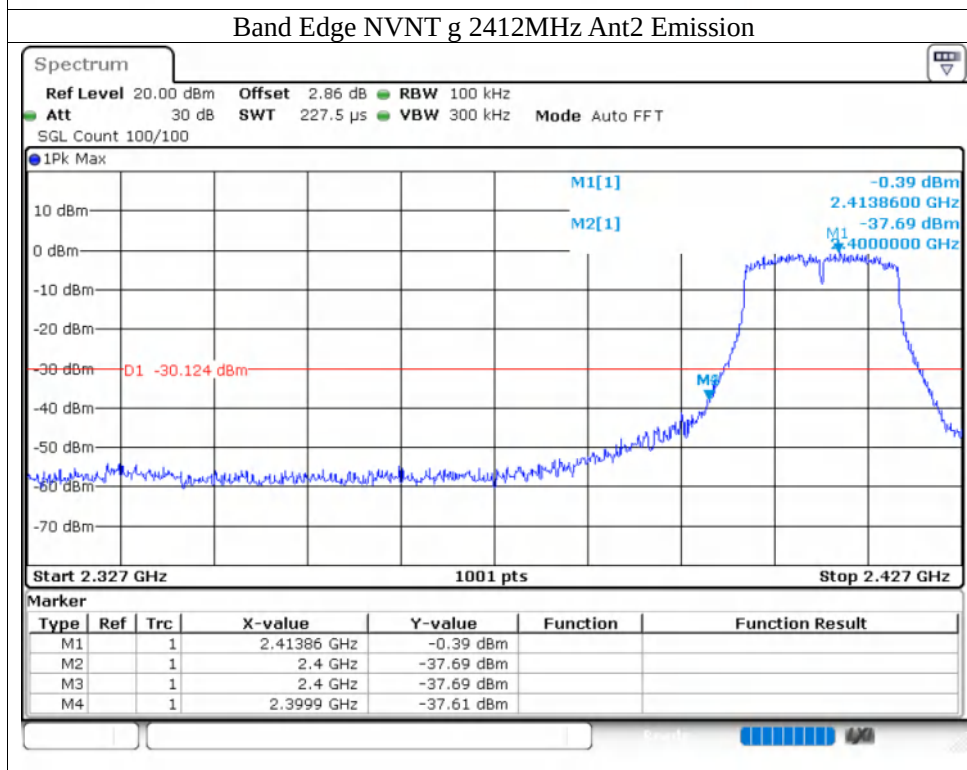
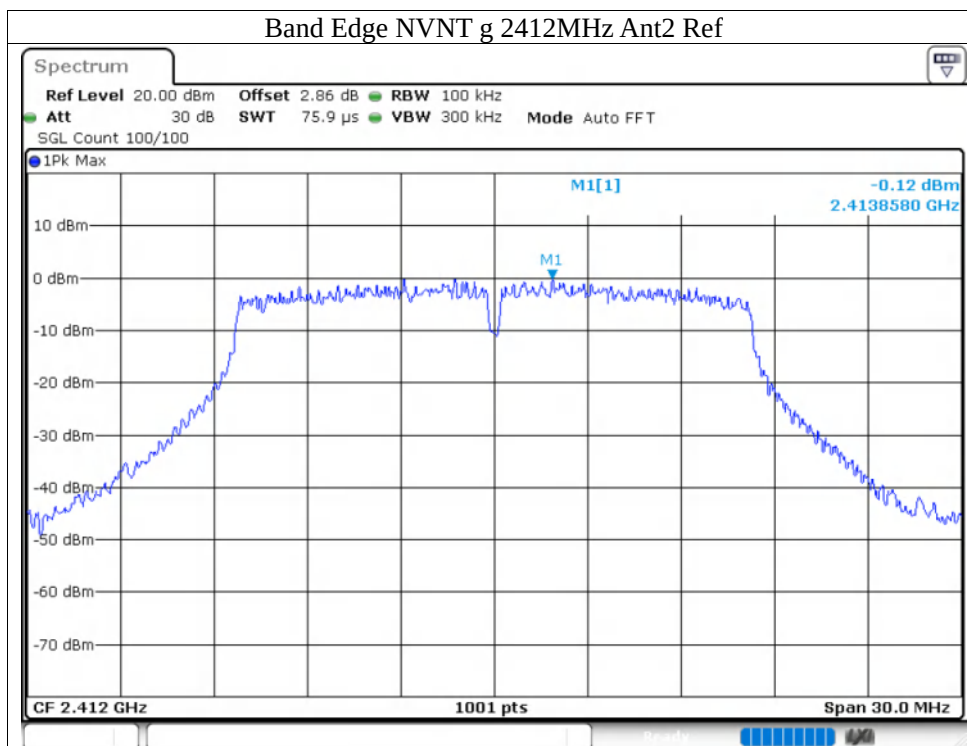


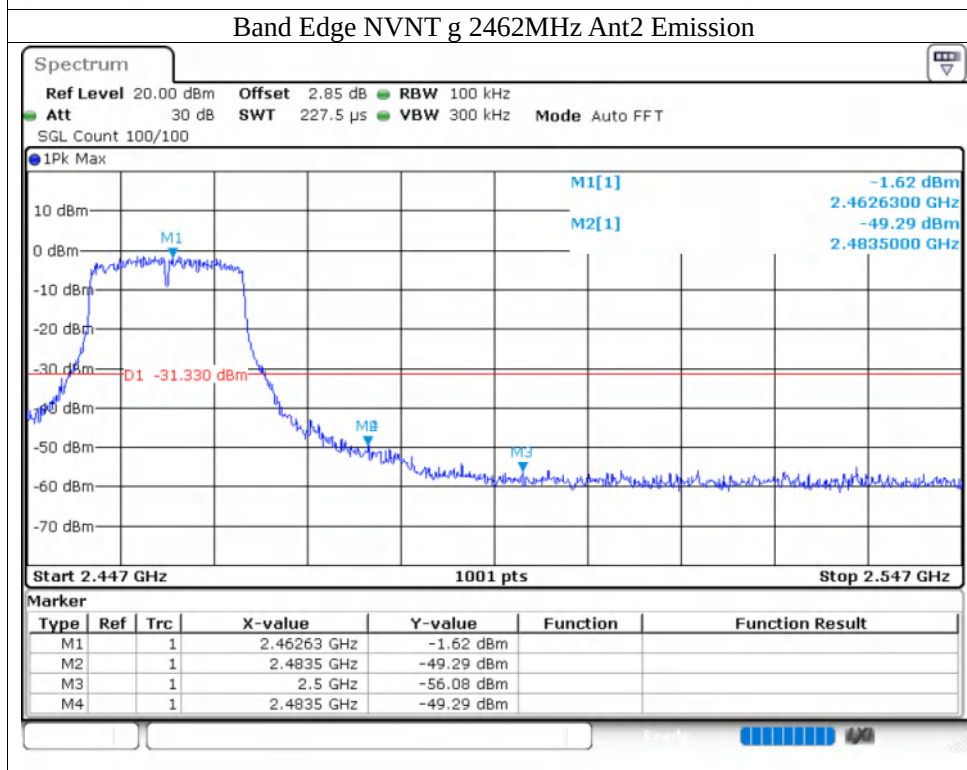
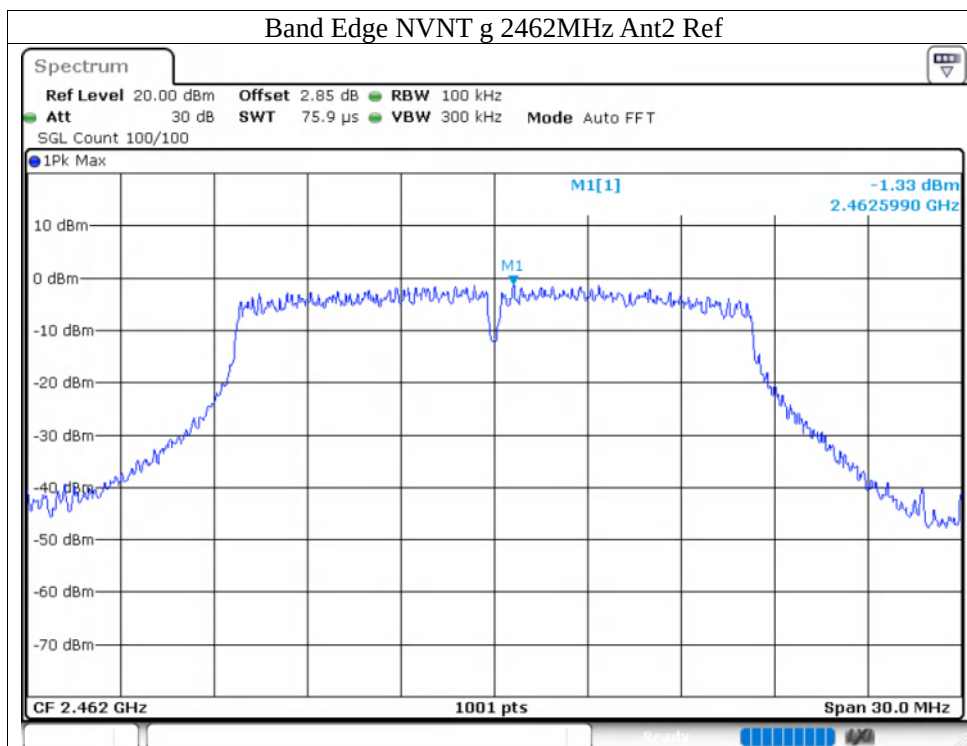
Band Edge NVNT b 2462MHz Ant2 Emission

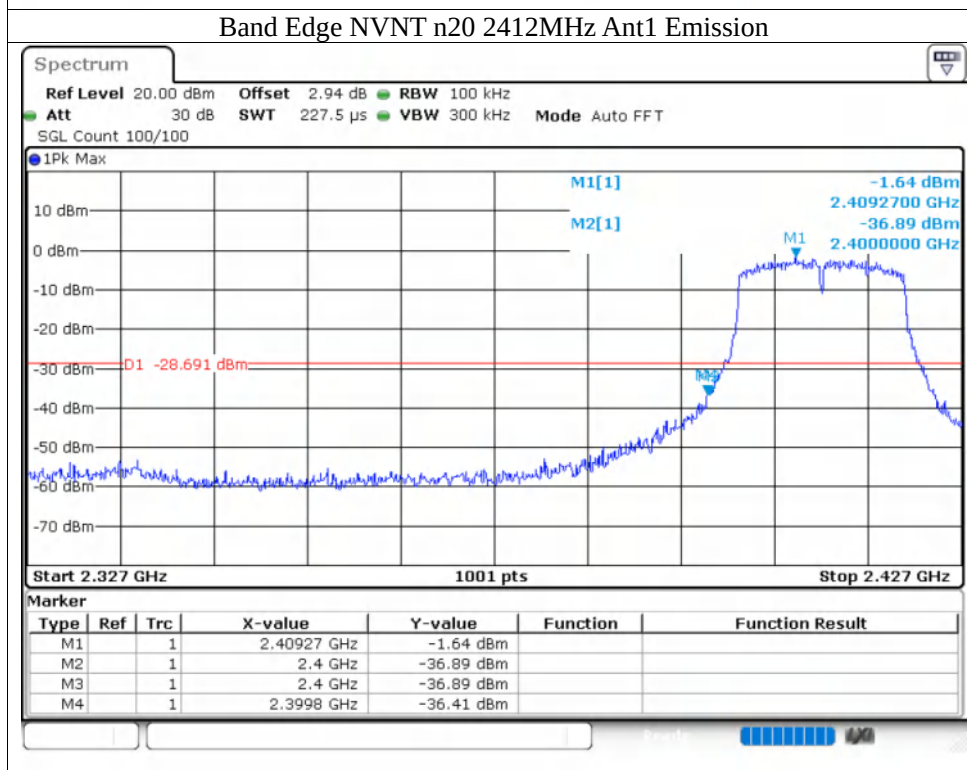
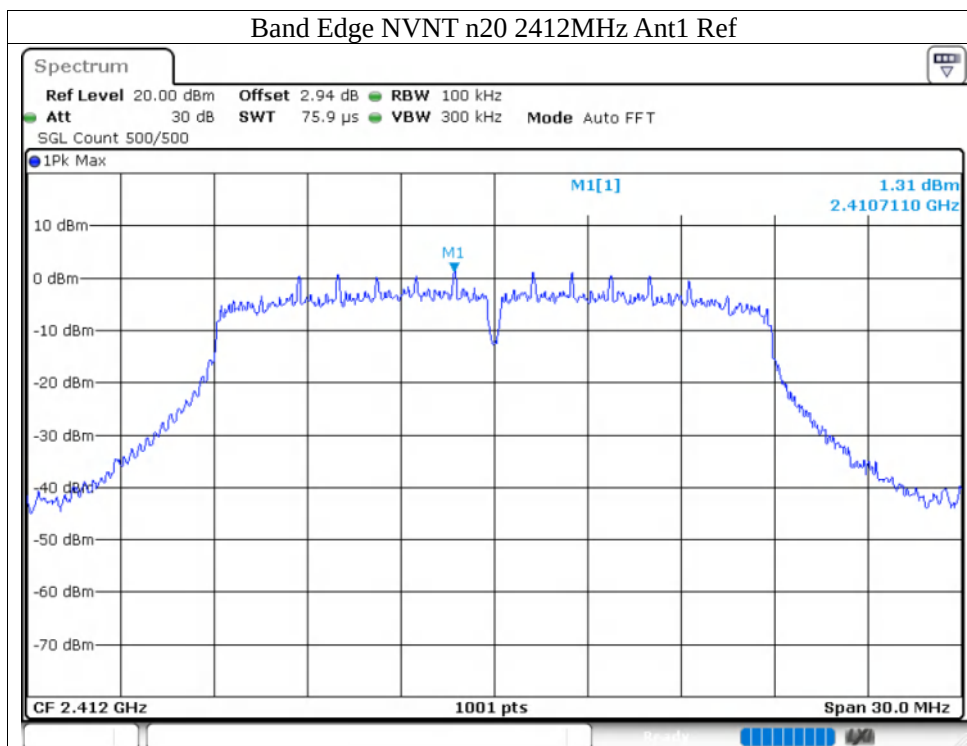




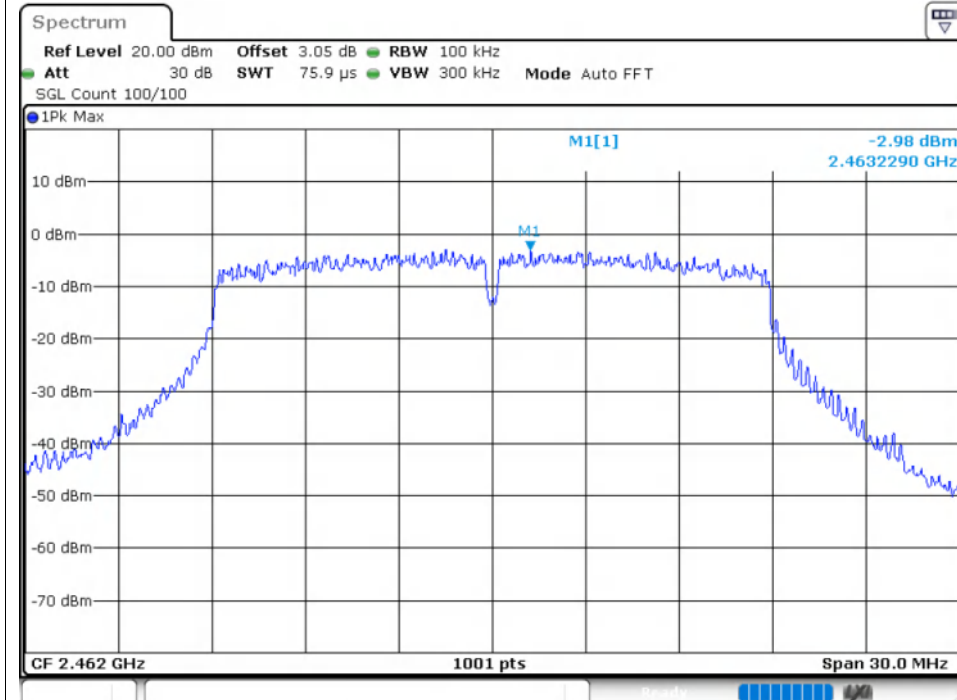




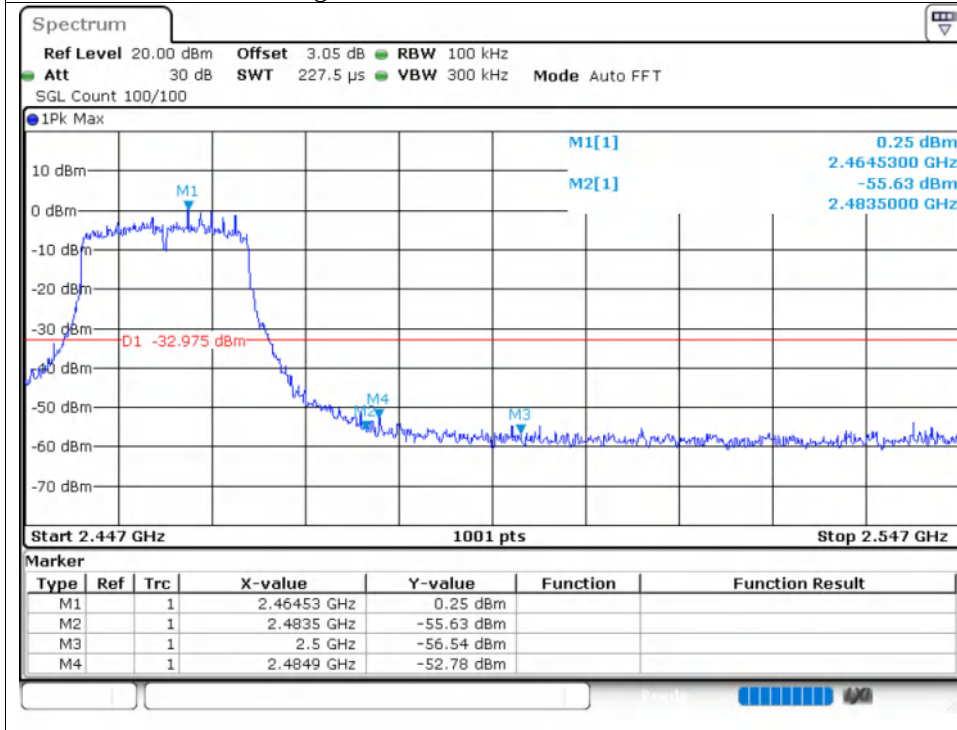




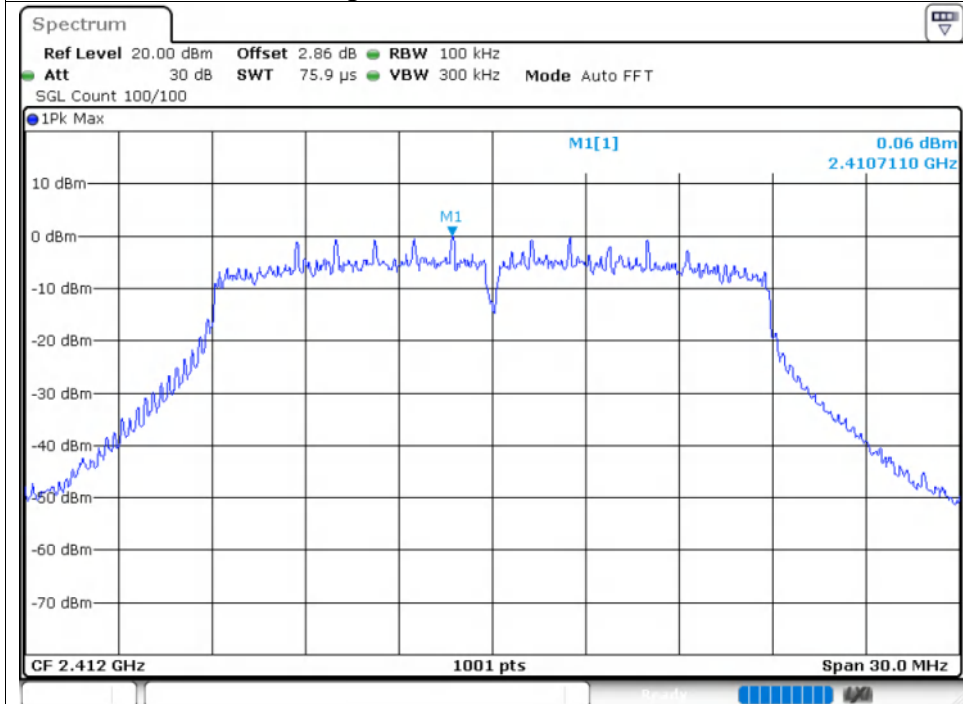
Band Edge NVNT n20 2462MHz Ant1 Ref



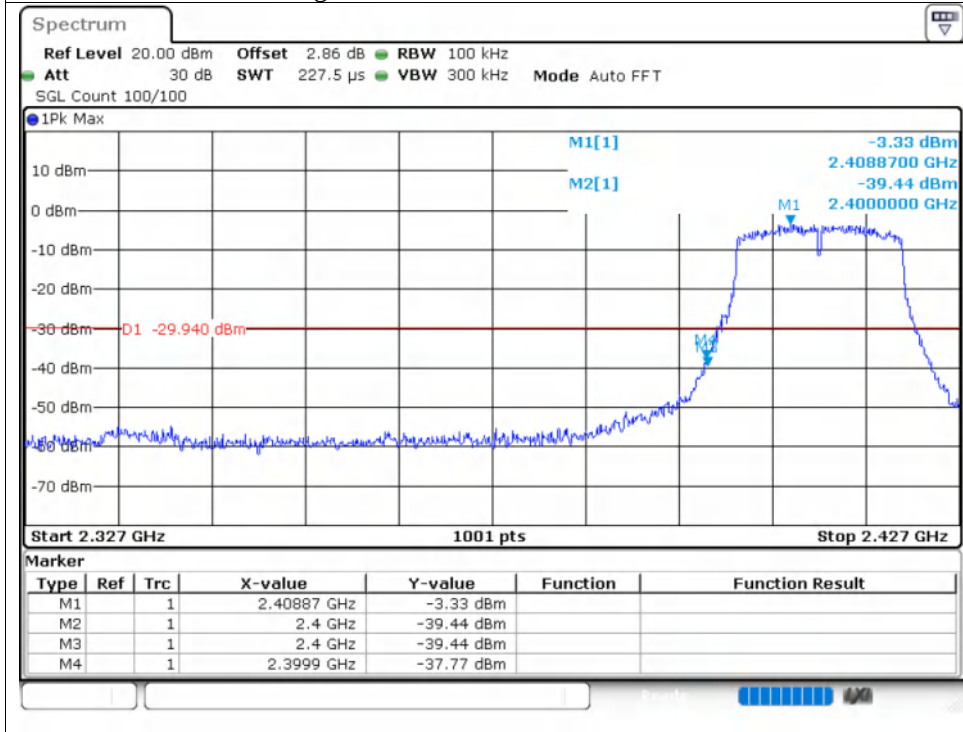
Band Edge NVNT n20 2462MHz Ant1 Emission

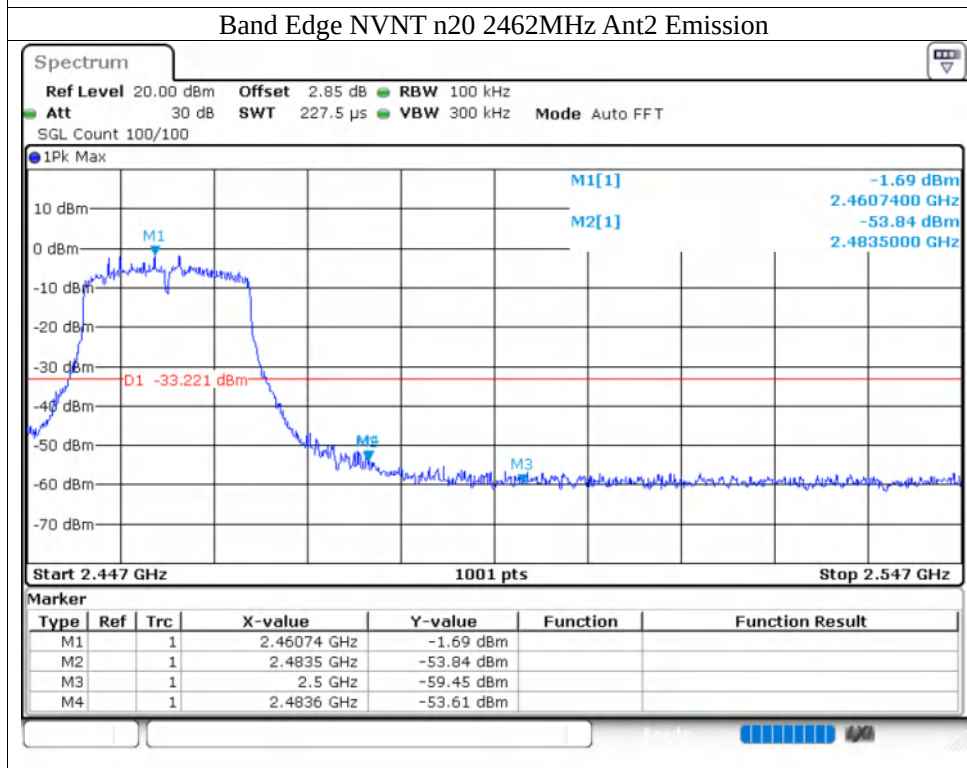
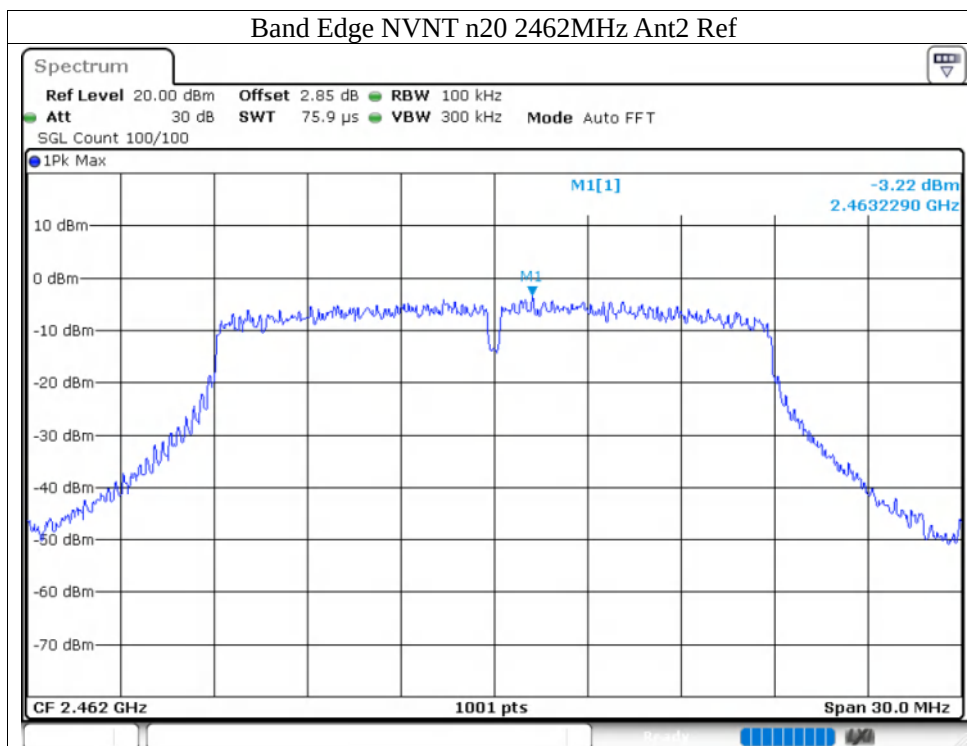


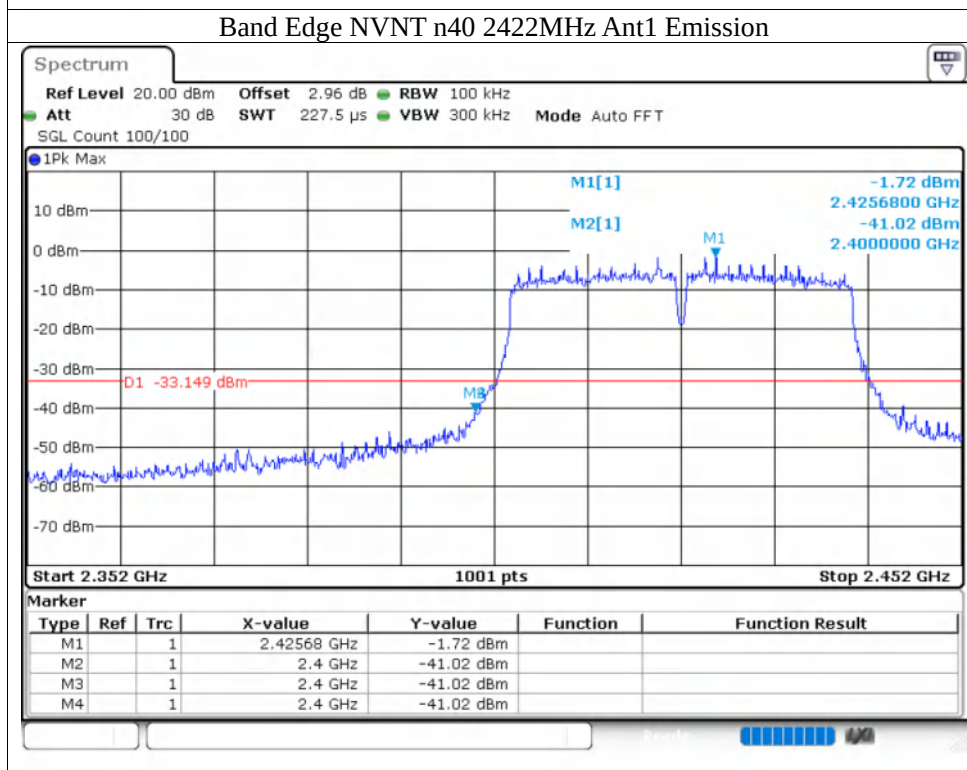
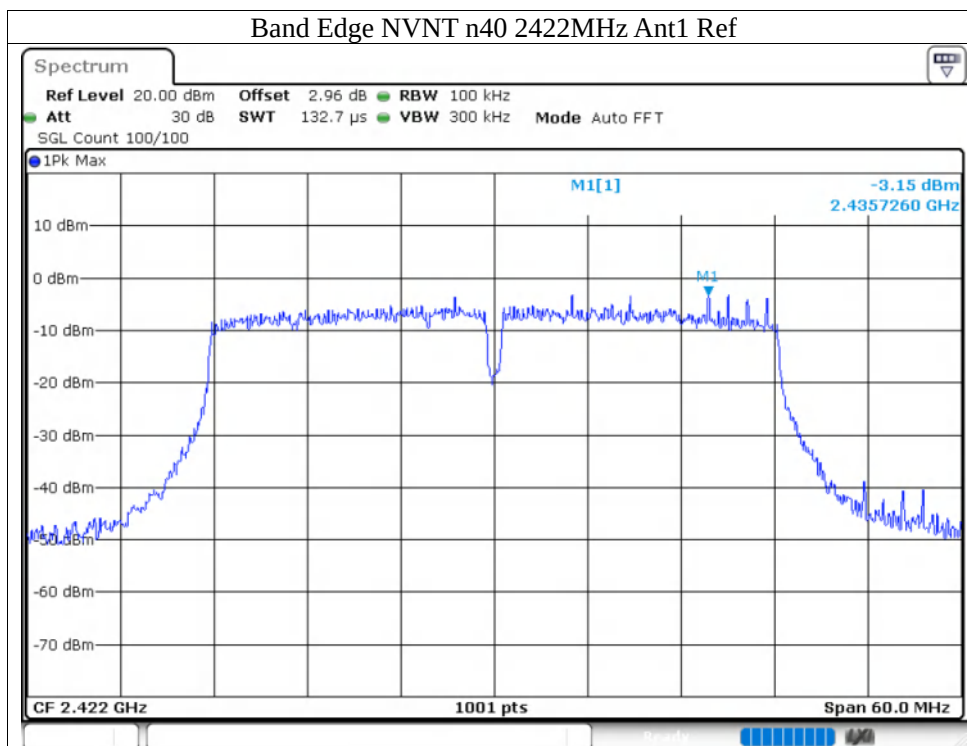
Band Edge NVNT n20 2412MHz Ant2 Ref



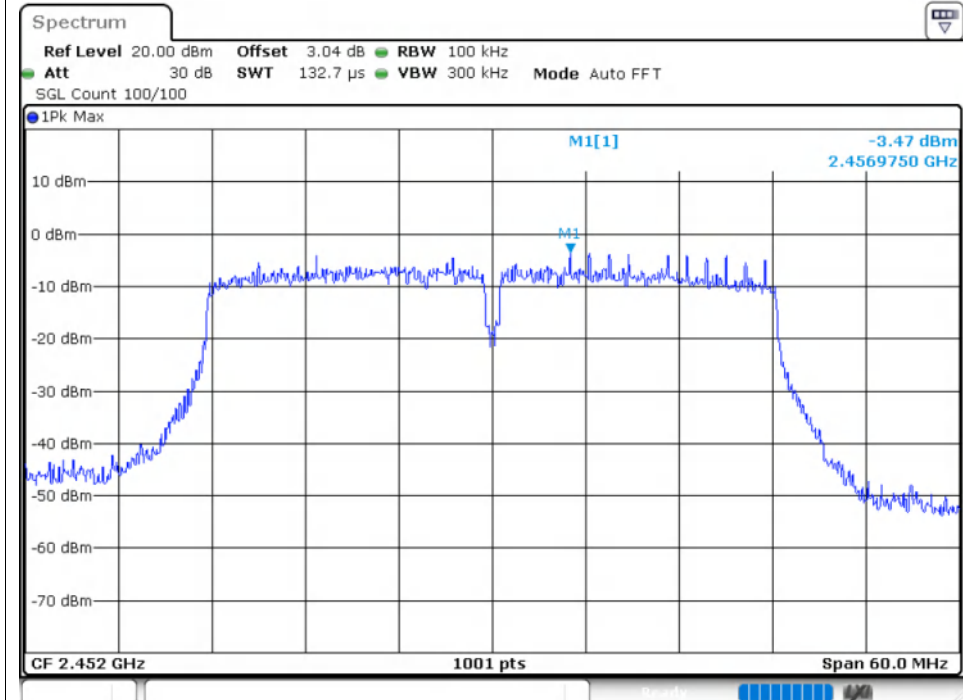
Band Edge NVNT n20 2412MHz Ant2 Emission



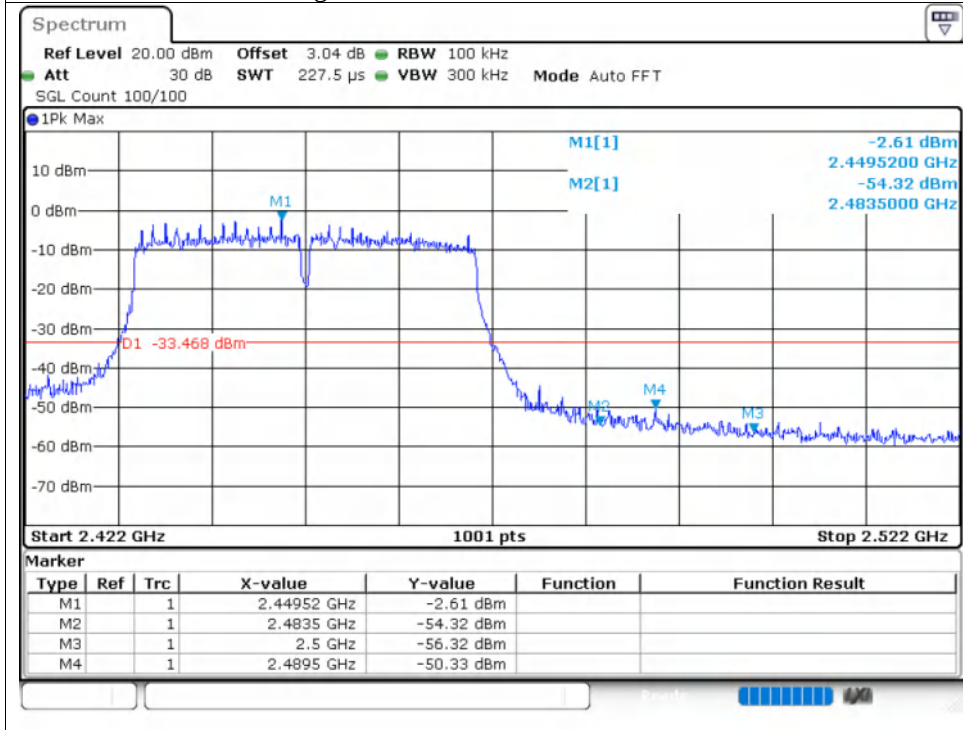


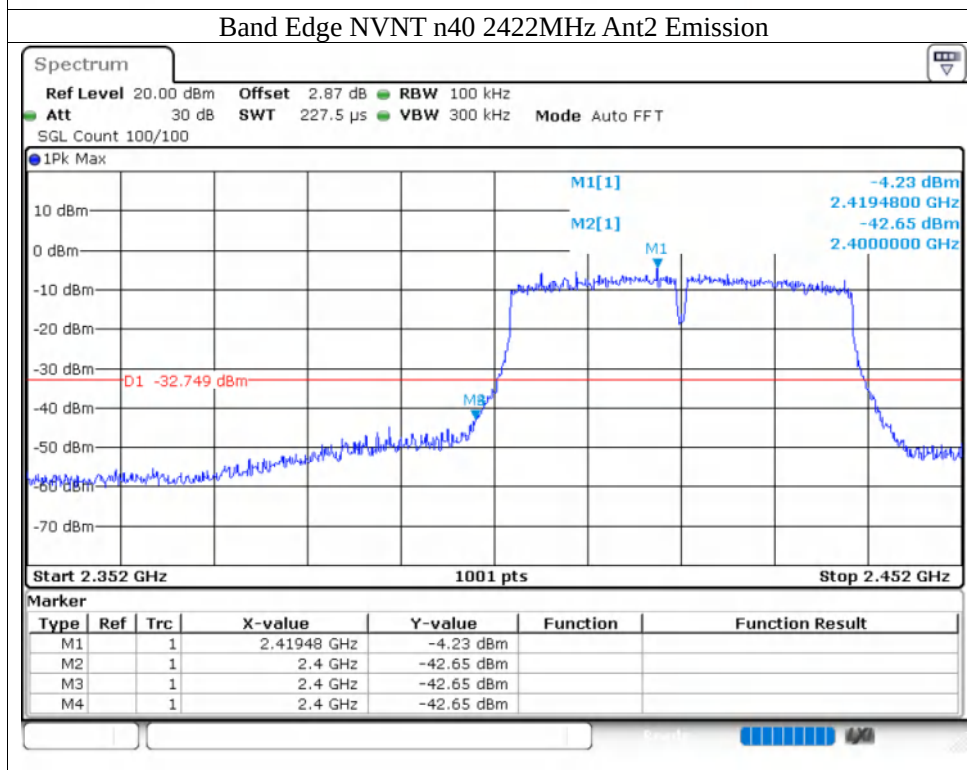
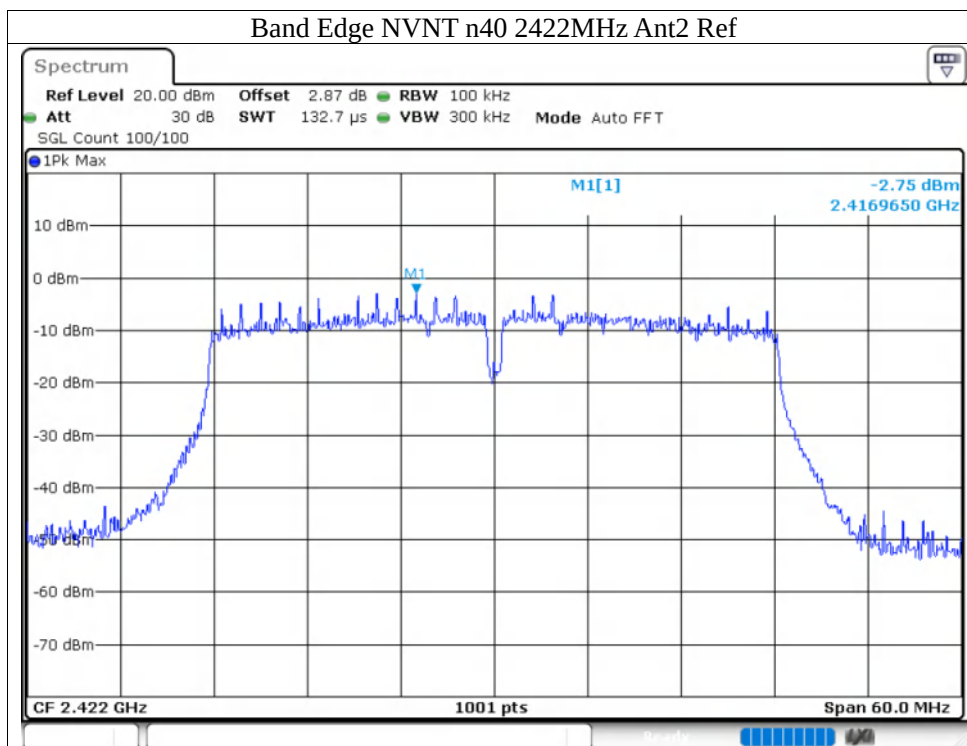


Band Edge NVNT n40 2452MHz Ant1 Ref

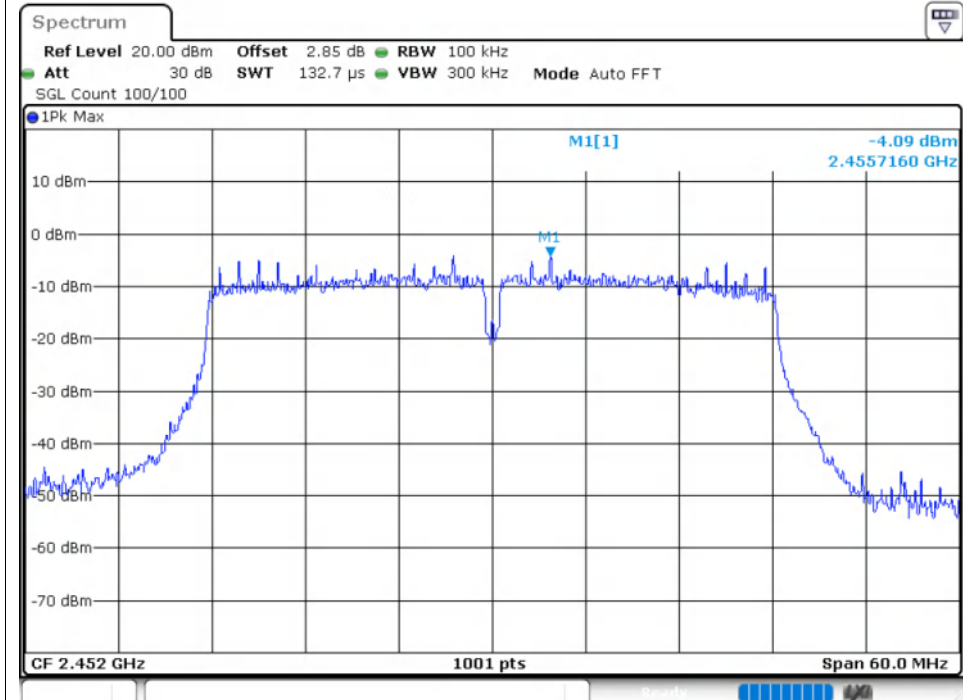


Band Edge NVNT n40 2452MHz Ant1 Emission

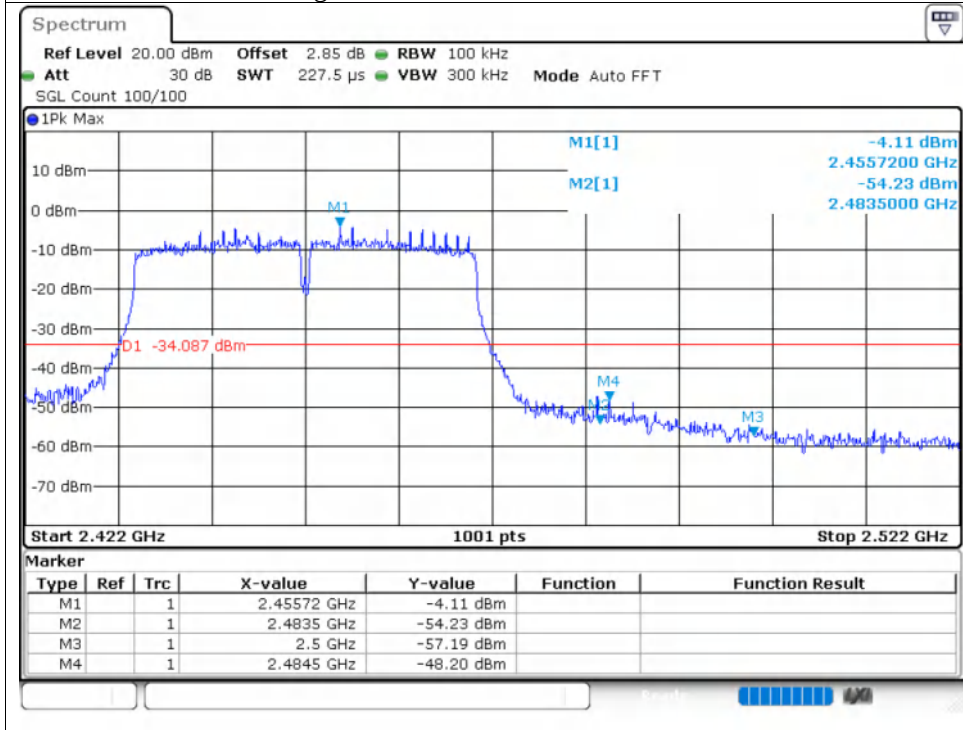




Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission

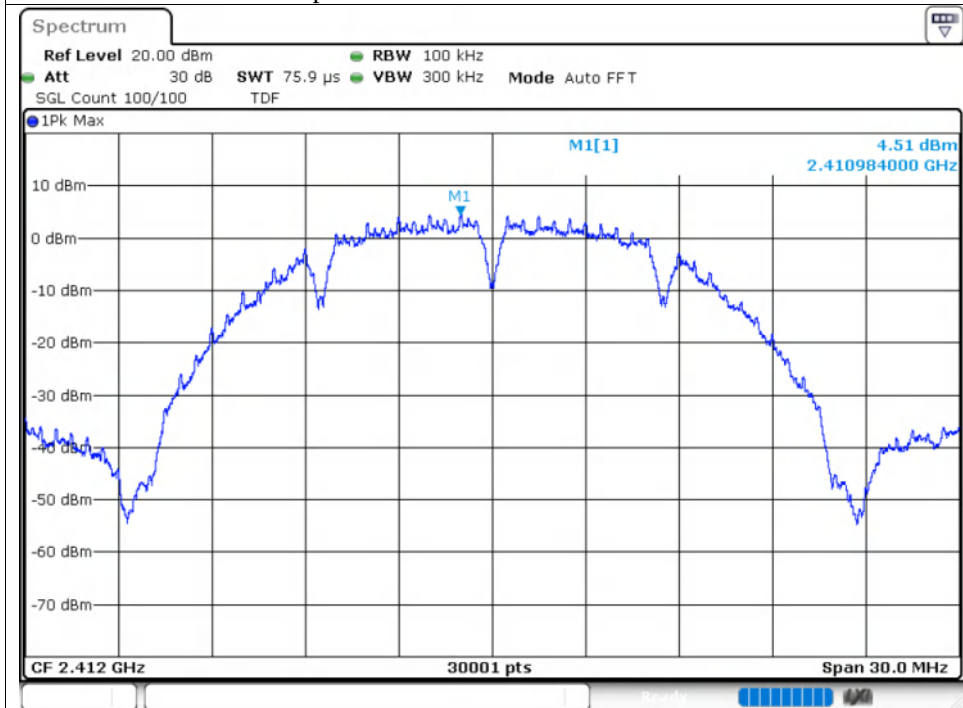


8.1.7 Conducted RF Spurious Emission

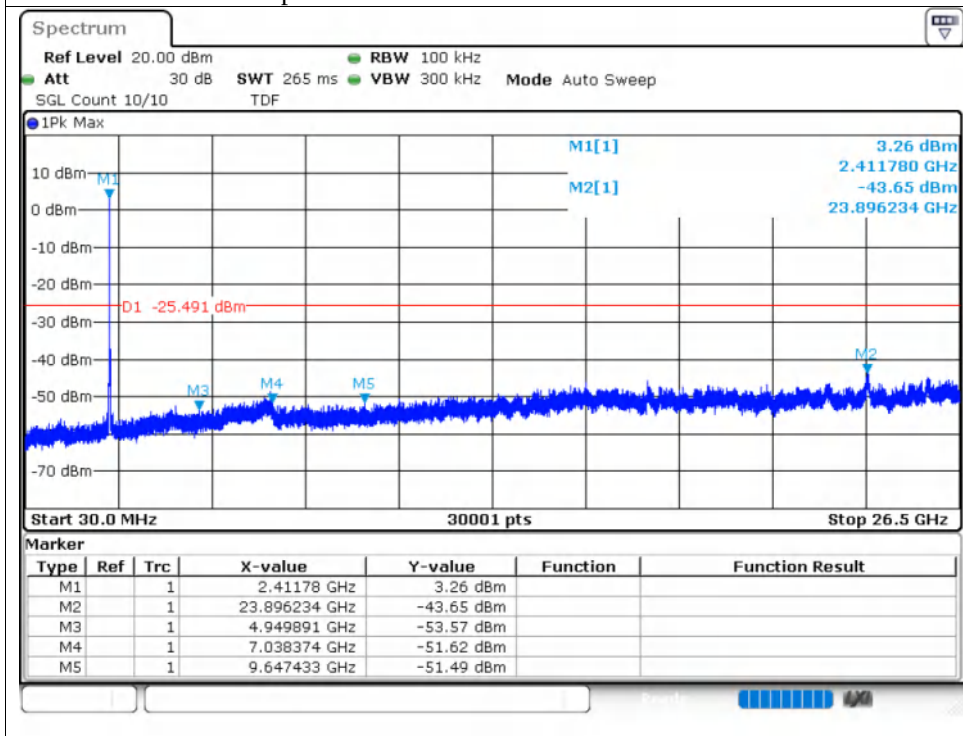
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-48.15	-30	Pass
NVNT	b	2437	Ant1	-46.29	-30	Pass
NVNT	b	2462	Ant1	-48.28	-30	Pass
NVNT	b	2412	Ant2	-45.95	-30	Pass
NVNT	b	2437	Ant2	-46.16	-30	Pass
NVNT	b	2462	Ant2	-45.31	-30	Pass
NVNT	g	2412	Ant1	-45.78	-30	Pass
NVNT	g	2437	Ant1	-44.34	-30	Pass
NVNT	g	2462	Ant1	-43.1	-30	Pass
NVNT	g	2412	Ant2	-45.97	-30	Pass
NVNT	g	2437	Ant2	-41.88	-30	Pass
NVNT	g	2462	Ant2	-41.76	-30	Pass
NVNT	n20	2412	Ant1	-44.51	-30	Pass
NVNT	n20	2437	Ant1	-44.2	-30	Pass
NVNT	n20	2462	Ant1	-41.74	-30	Pass
NVNT	n20	2412	Ant2	-40.42	-30	Pass
NVNT	n20	2437	Ant2	-40.22	-30	Pass
NVNT	n20	2462	Ant2	-39.46	-30	Pass
NVNT	n40	2422	Ant1	-40.77	-30	Pass
NVNT	n40	2437	Ant1	-40.64	-30	Pass
NVNT	n40	2452	Ant1	-39.57	-30	Pass
NVNT	n40	2422	Ant2	-40.46	-30	Pass
NVNT	n40	2437	Ant2	-39.38	-30	Pass
NVNT	n40	2452	Ant2	-38.04	-30	Pass

Test Graphs

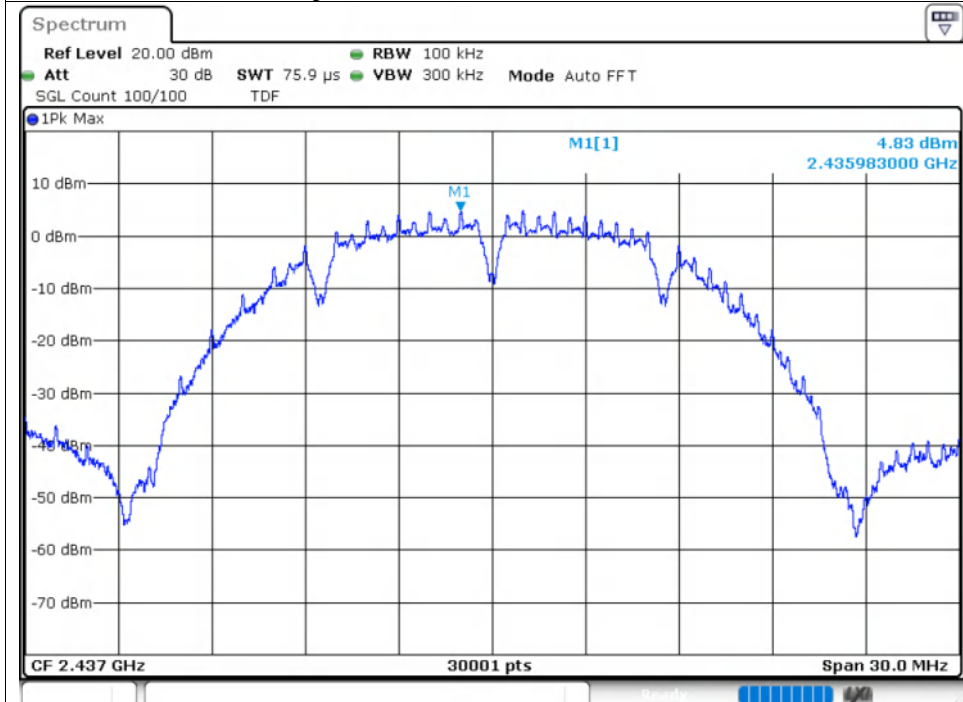
Tx. Spurious NVNT b 2412MHz Ant1 Ref



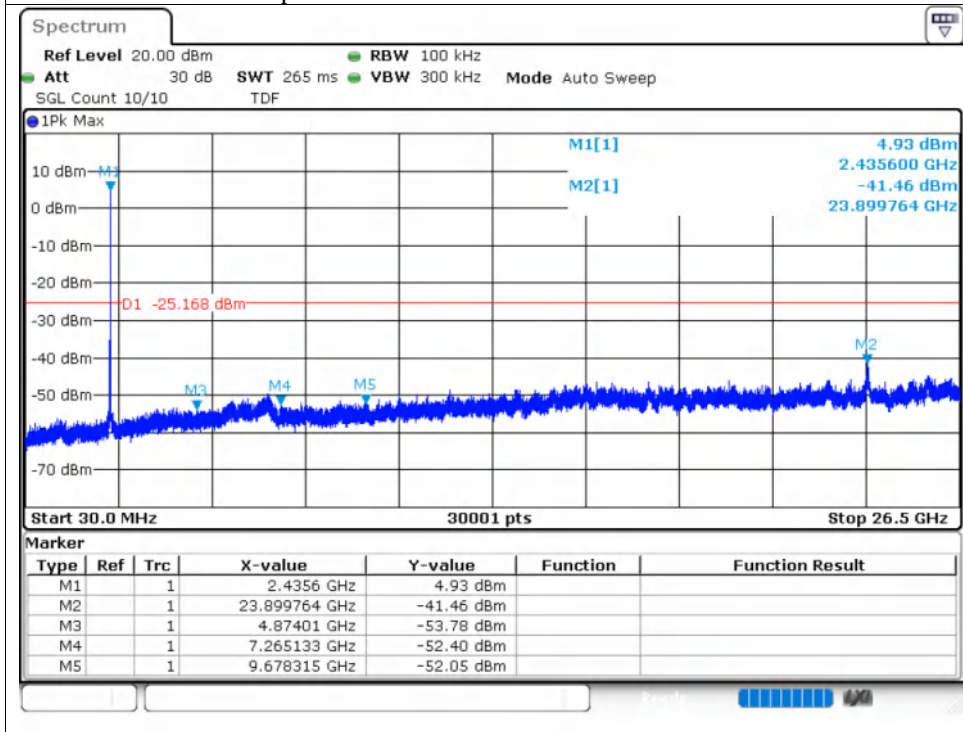
Tx. Spurious NVNT b 2412MHz Ant1 Emission



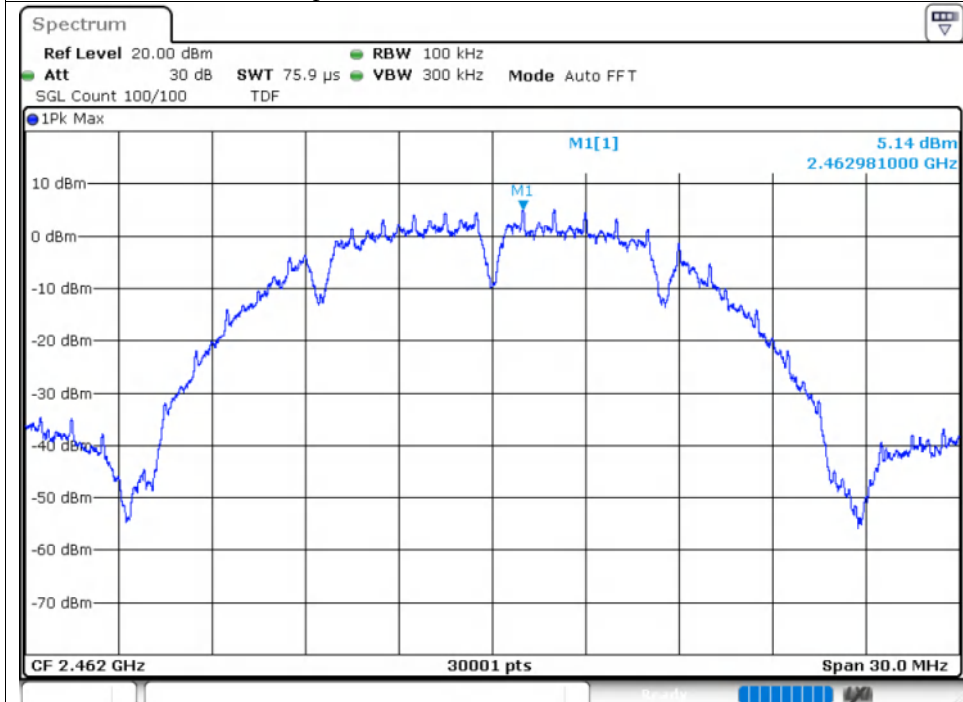
Tx. Spurious NVNT b 2437MHz Ant1 Ref



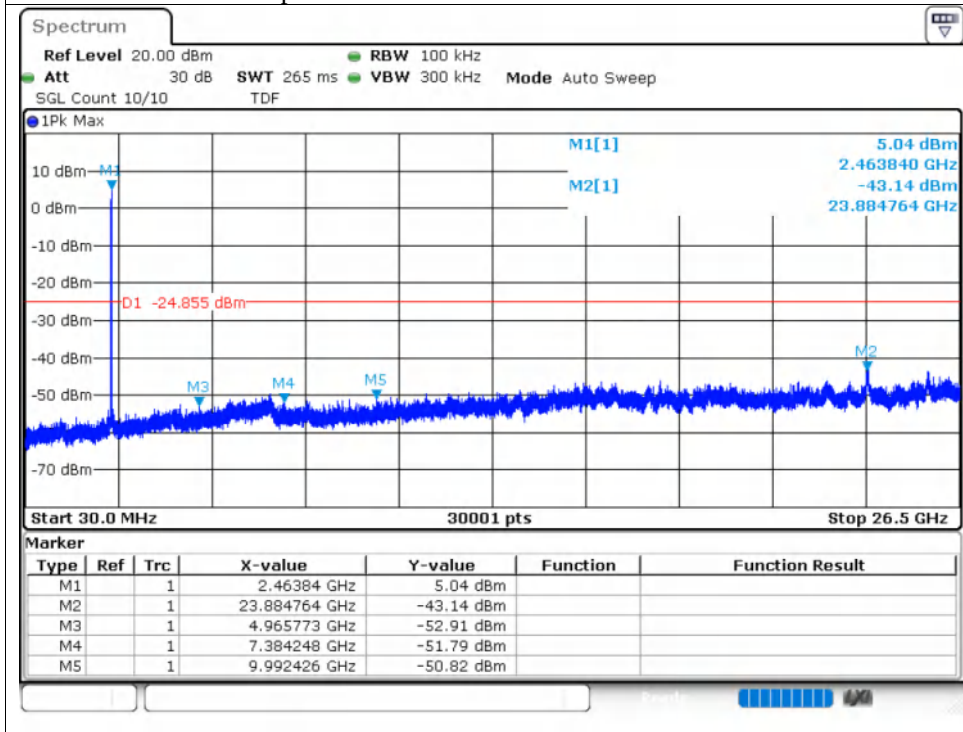
Tx. Spurious NVNT b 2437MHz Ant1 Emission



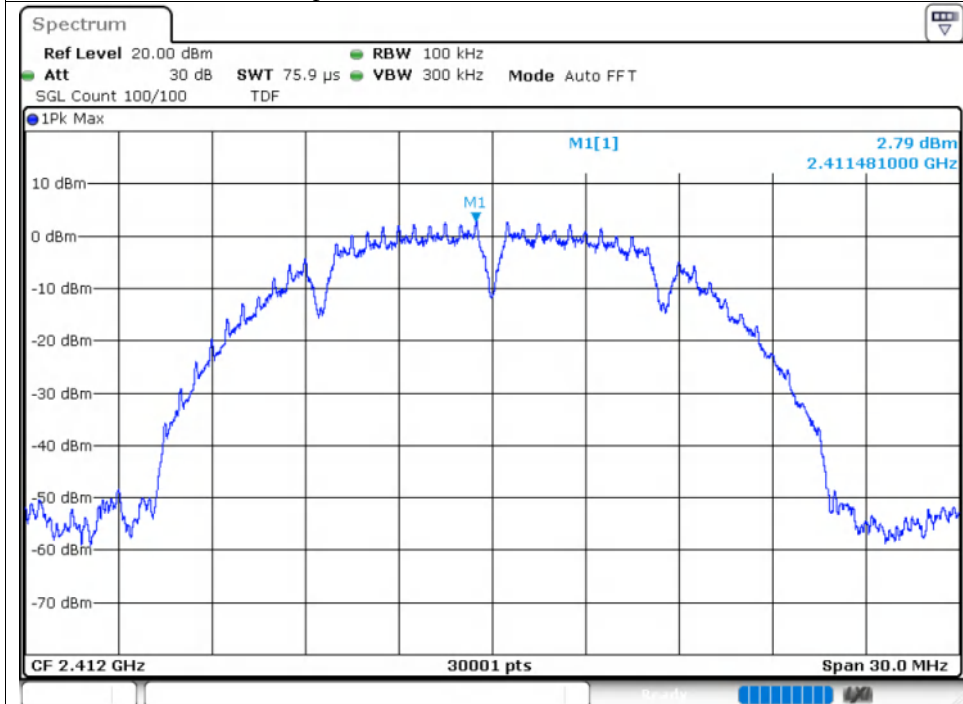
Tx. Spurious NVNT b 2462MHz Ant1 Ref



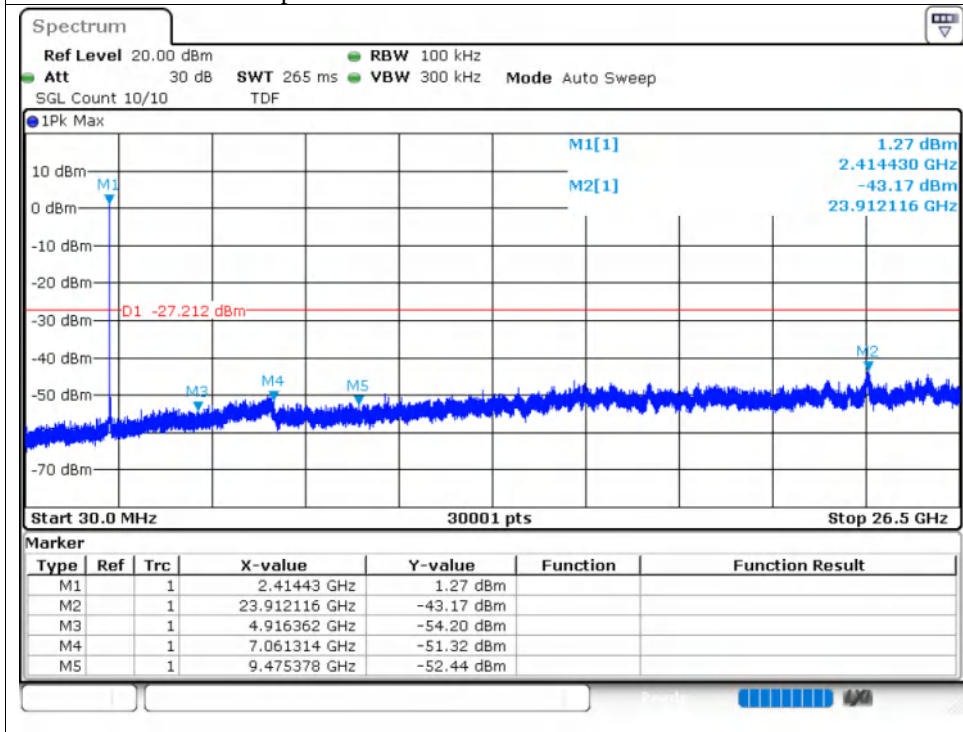
Tx. Spurious NVNT b 2462MHz Ant1 Emission



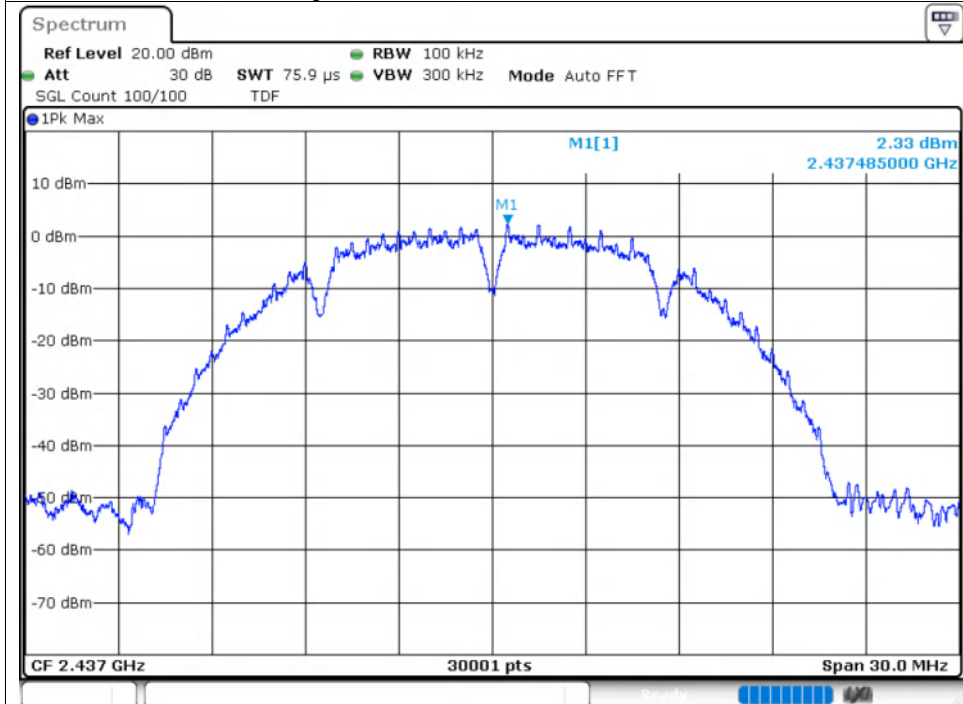
Tx. Spurious NVNT b 2412MHz Ant2 Ref



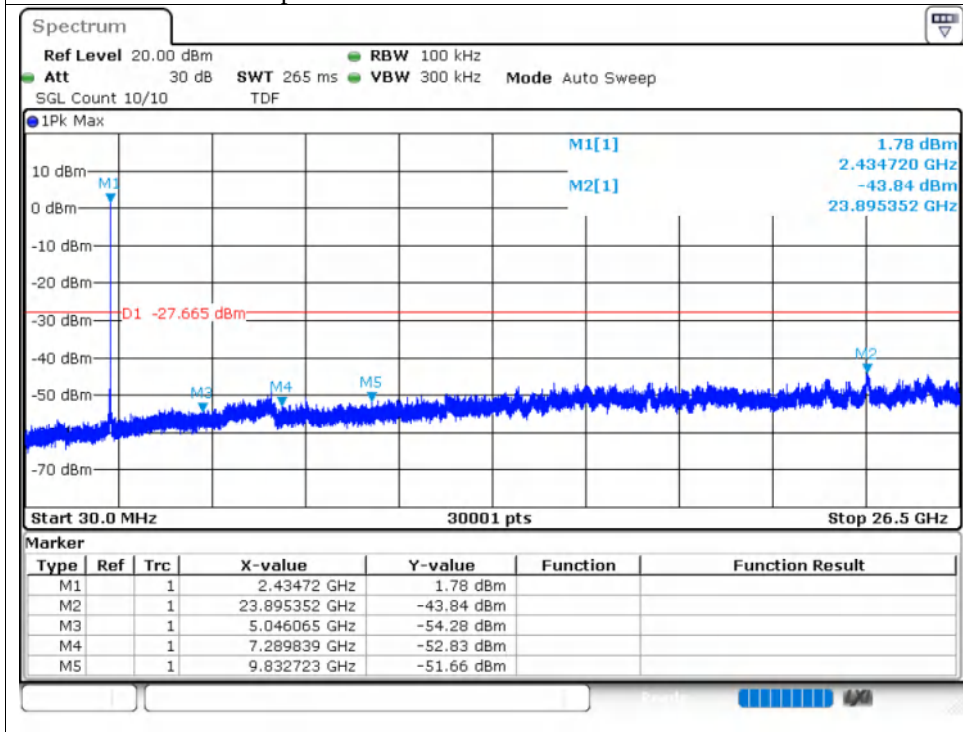
Tx. Spurious NVNT b 2412MHz Ant2 Emission



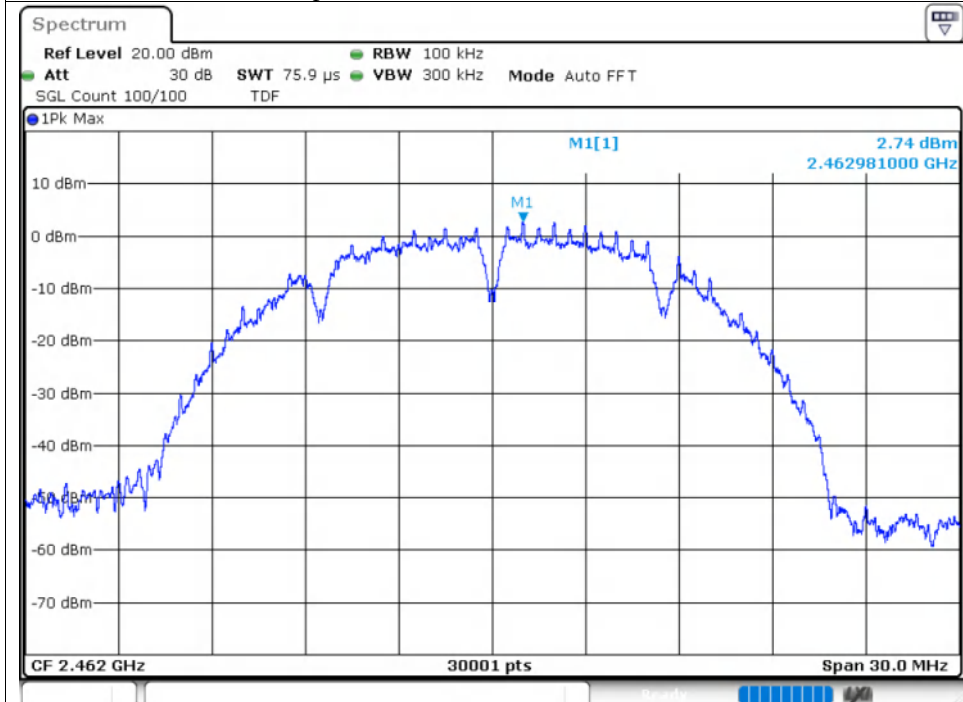
Tx. Spurious NVNT b 2437MHz Ant2 Ref



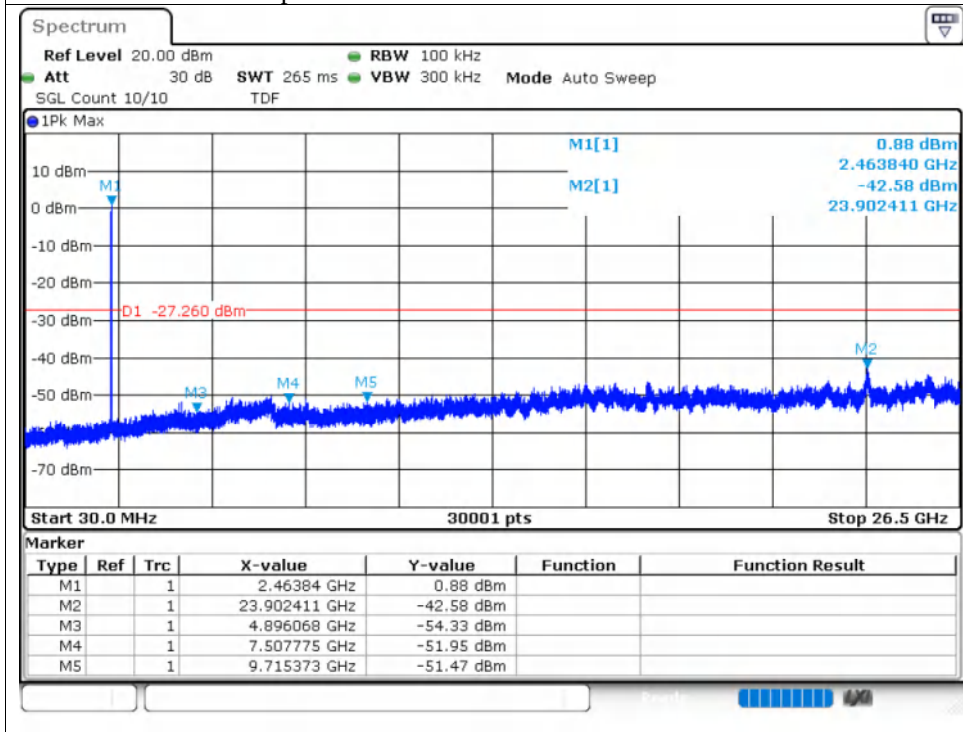
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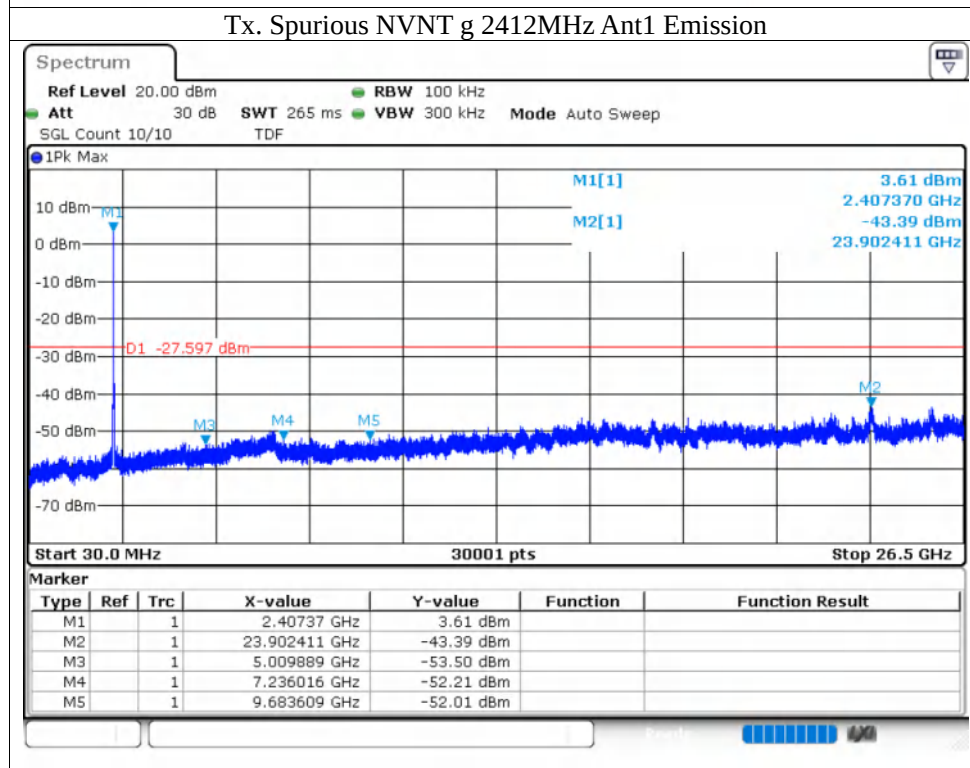
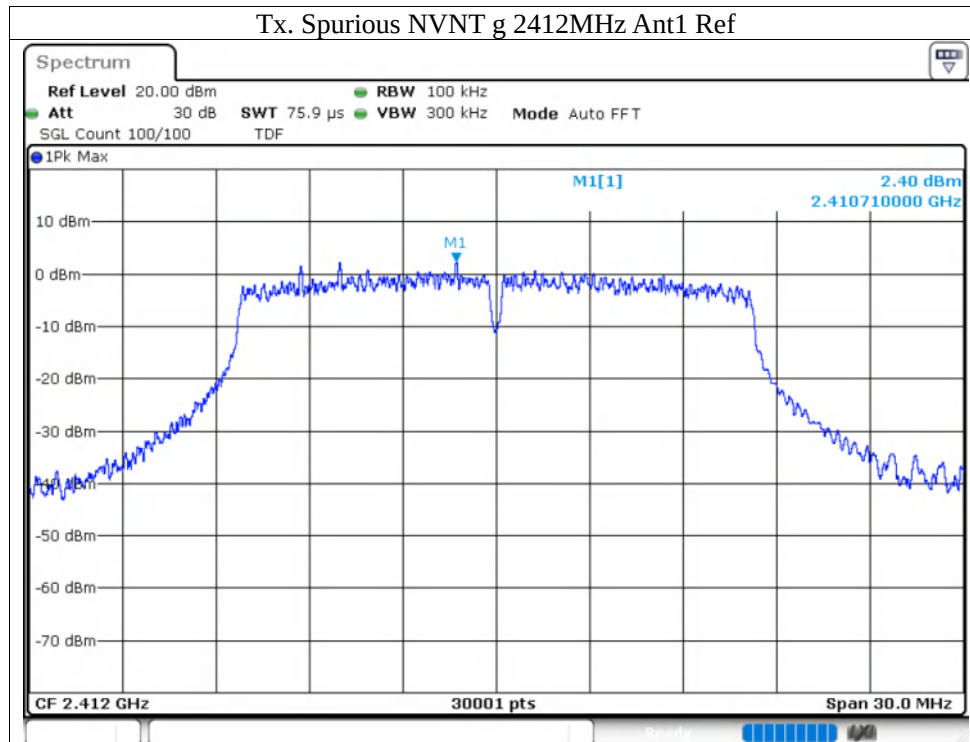


Tx. Spurious NVNT b 2462MHz Ant2 Ref

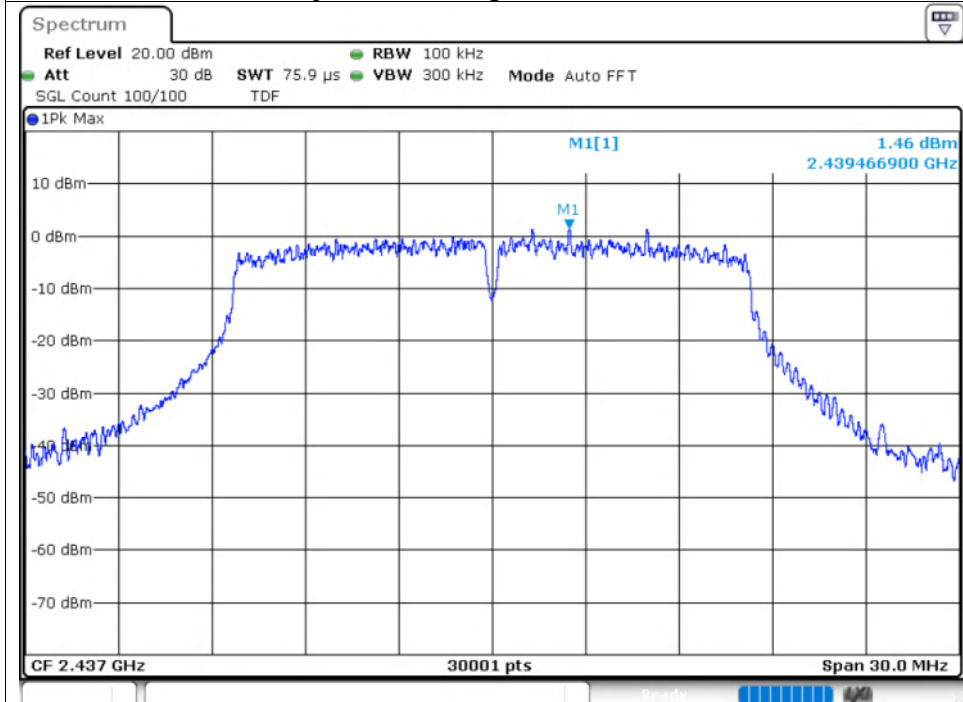


Tx. Spurious NVNT b 2462MHz Ant2 Emission

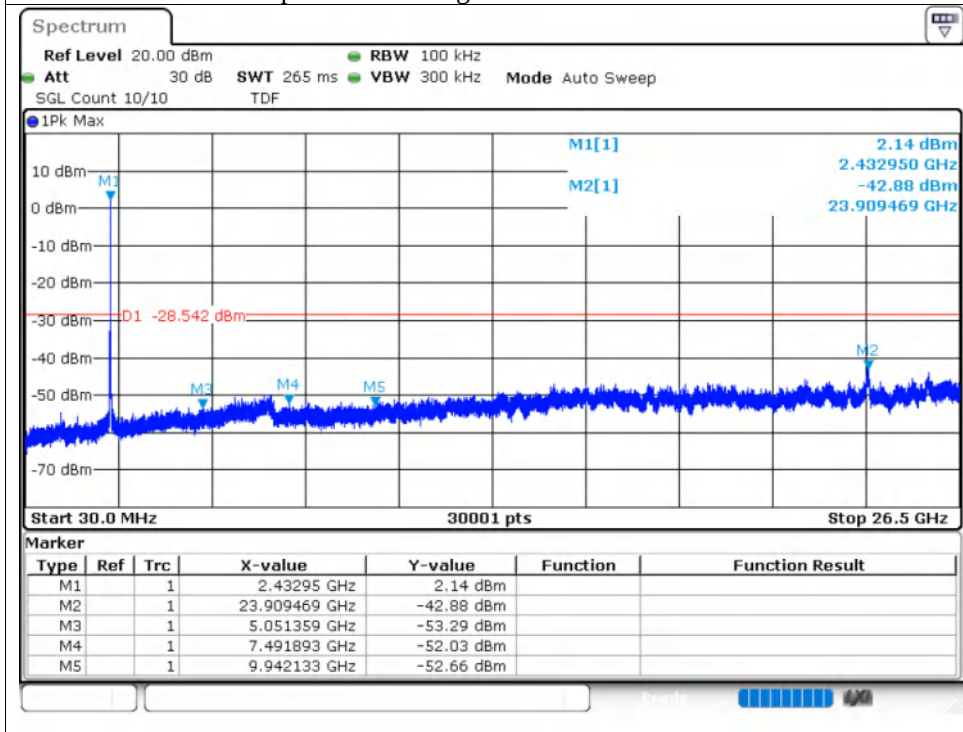




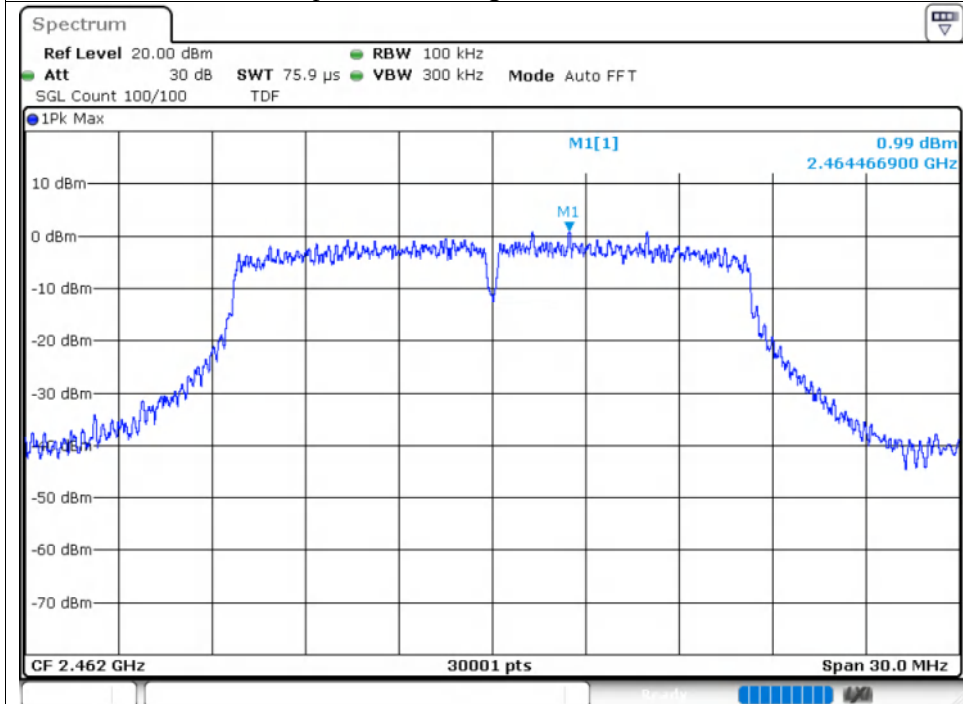
Tx. Spurious NVNT g 2437MHz Ant1 Ref



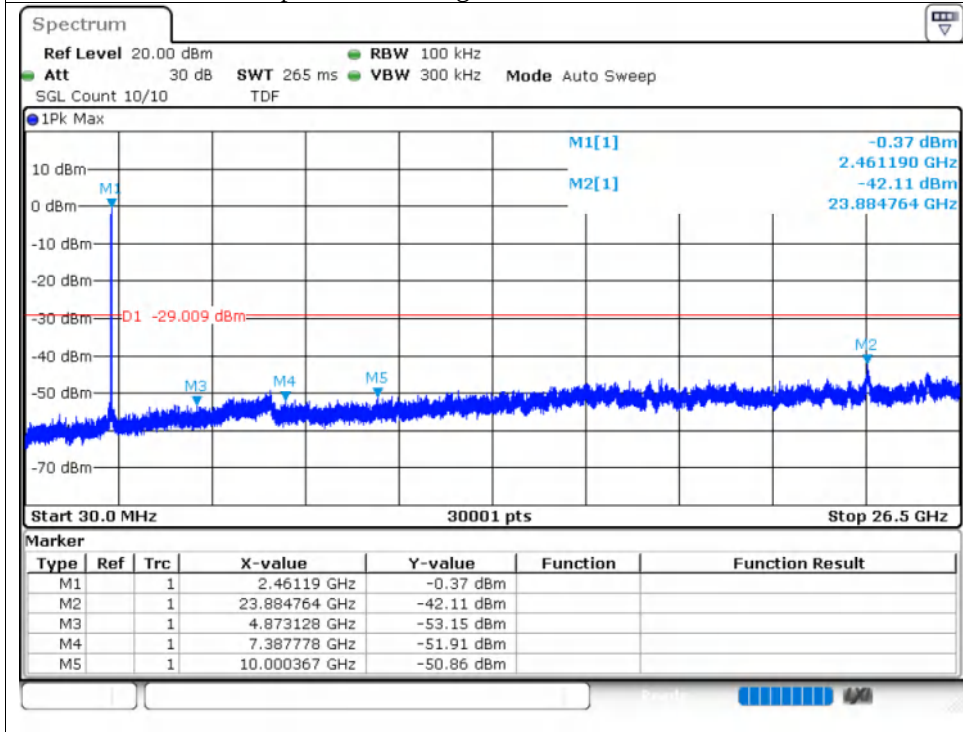
Tx. Spurious NVNT g 2437MHz Ant1 Emission



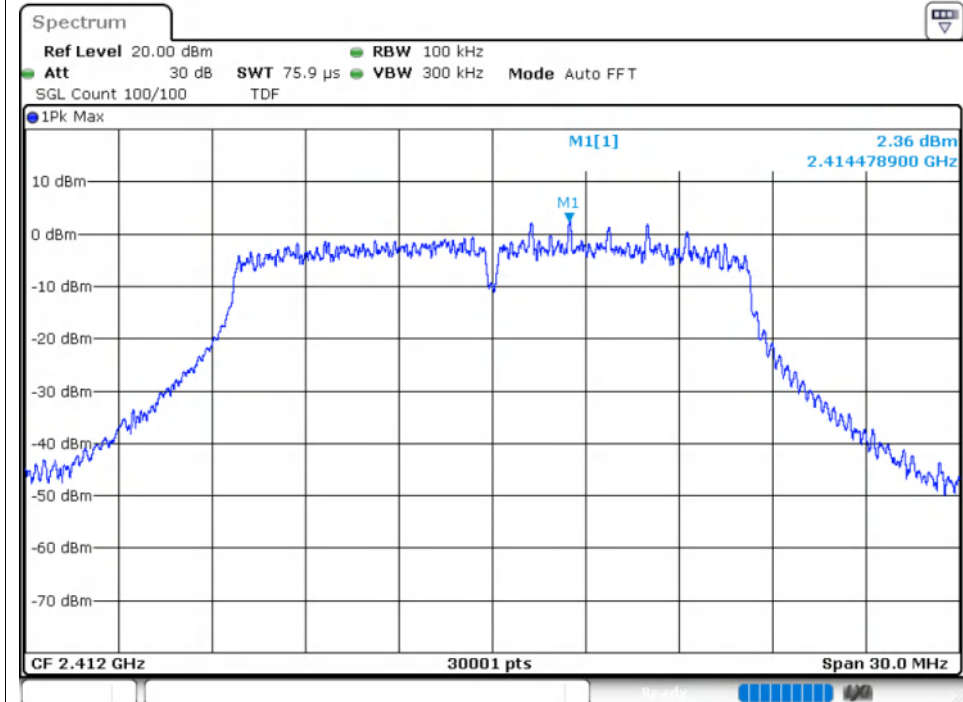
Tx. Spurious NVNT g 2462MHz Ant1 Ref



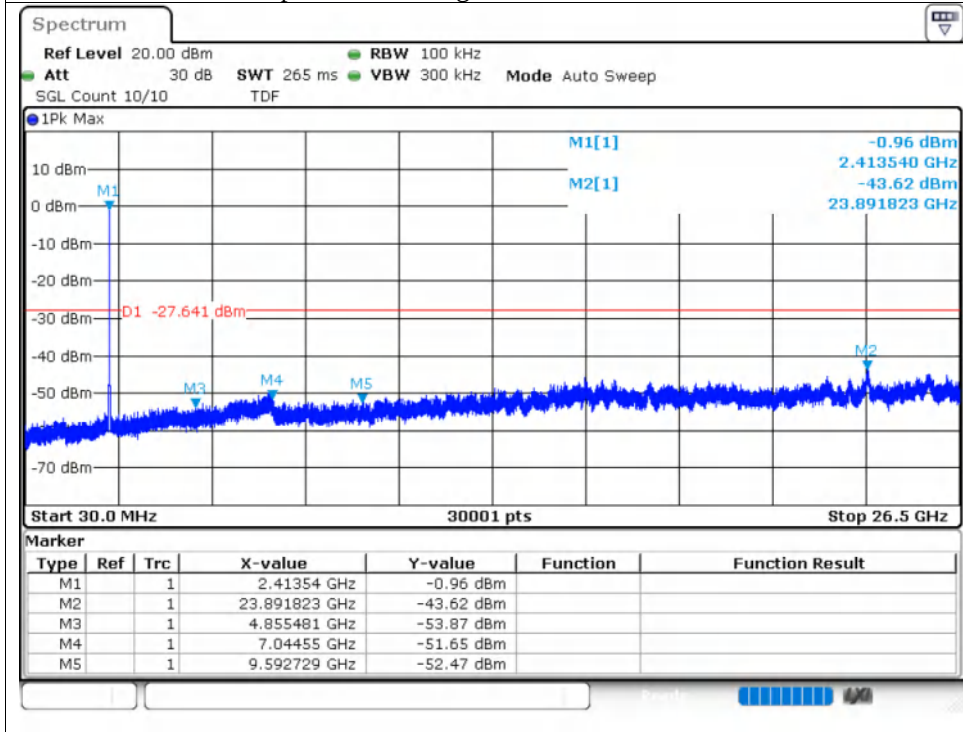
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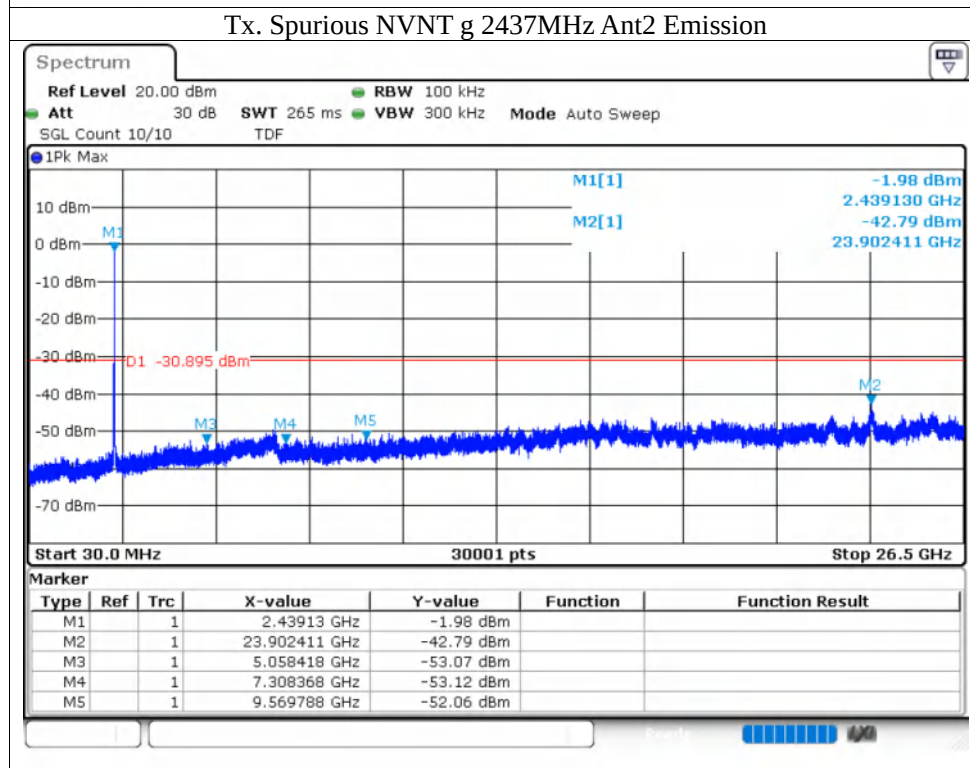
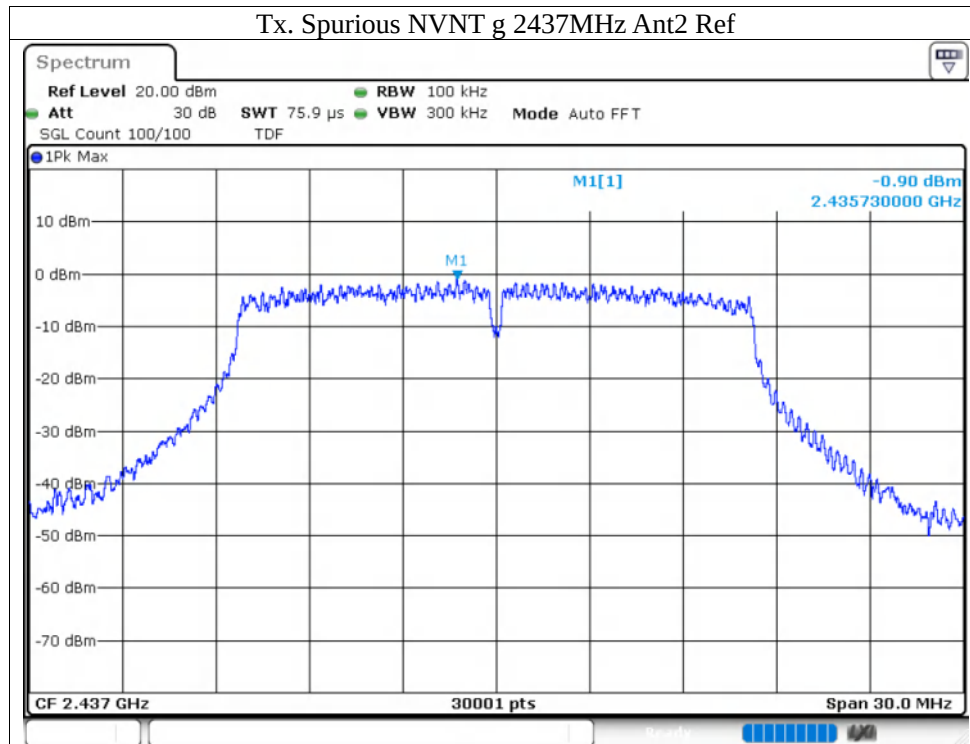


Tx. Spurious NVNT g 2412MHz Ant2 Ref

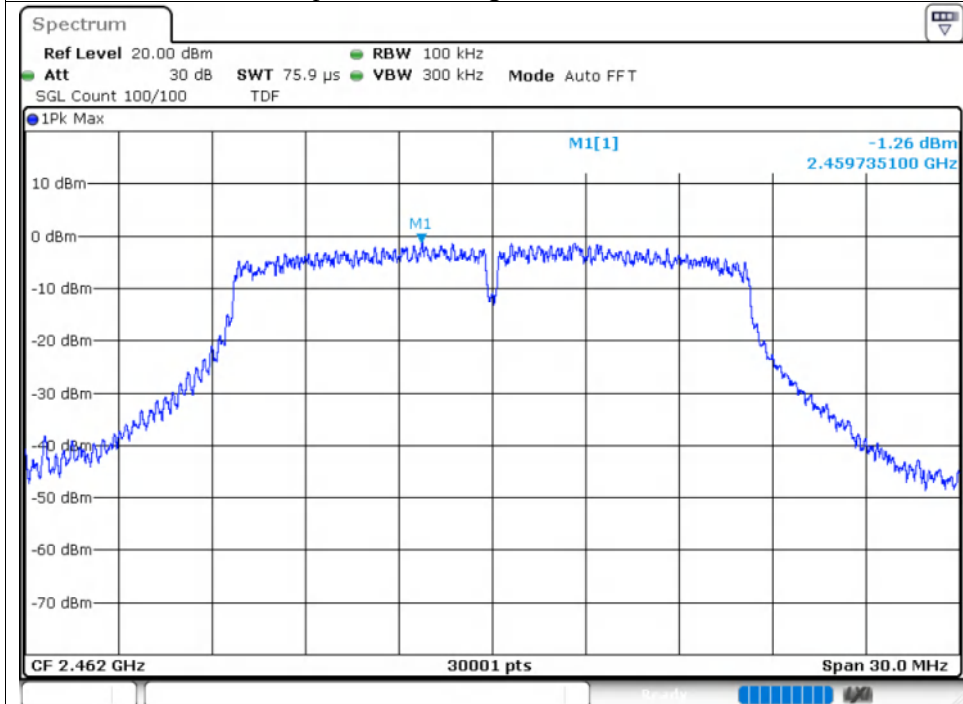


Tx. Spurious NVNT g 2412MHz Ant2 Emission

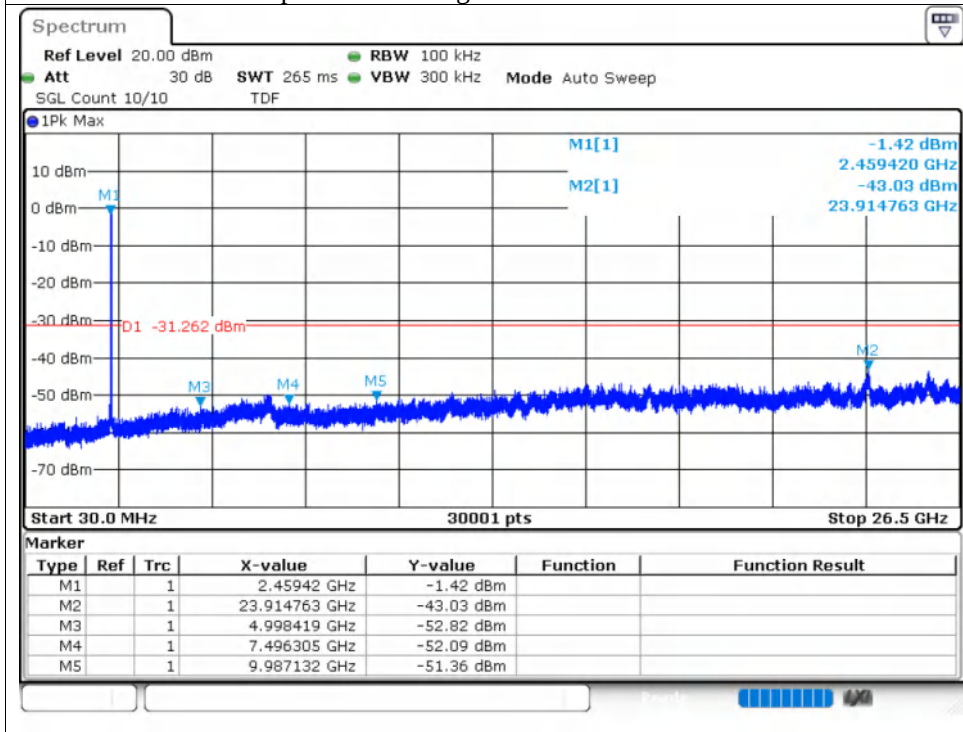




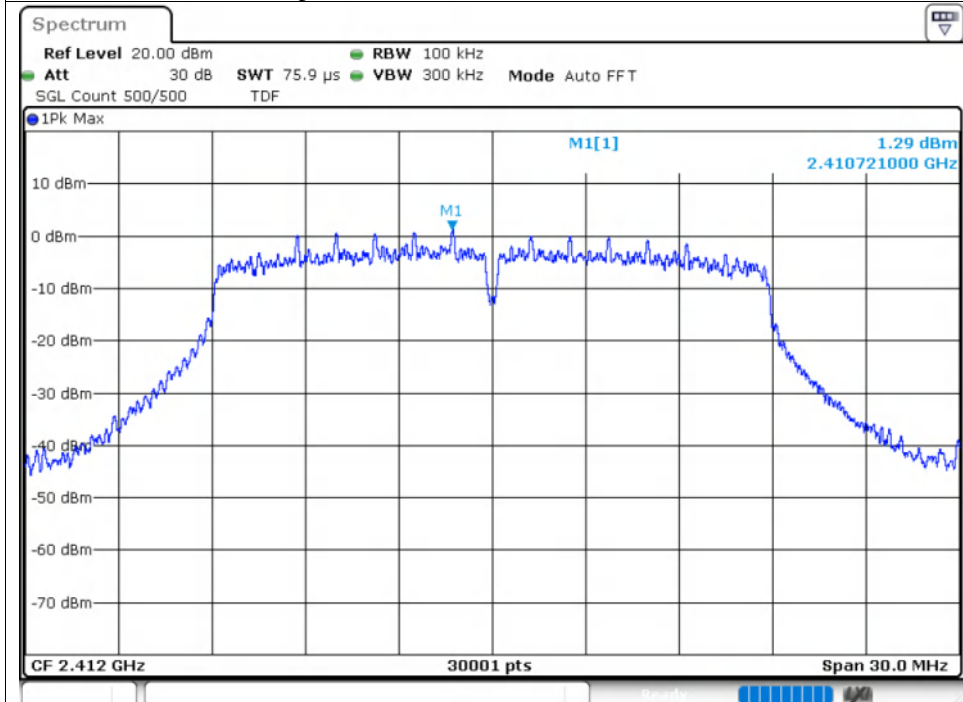
Tx. Spurious NVNT g 2462MHz Ant2 Ref



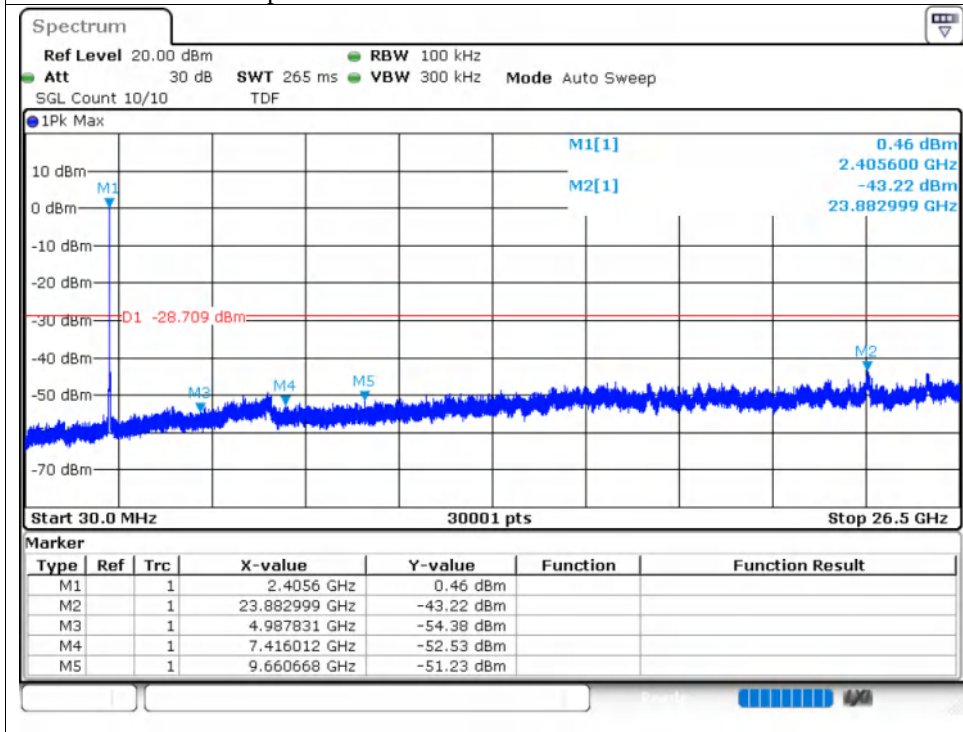
Tx. Spurious NVNT g 2462MHz Ant2 Emission



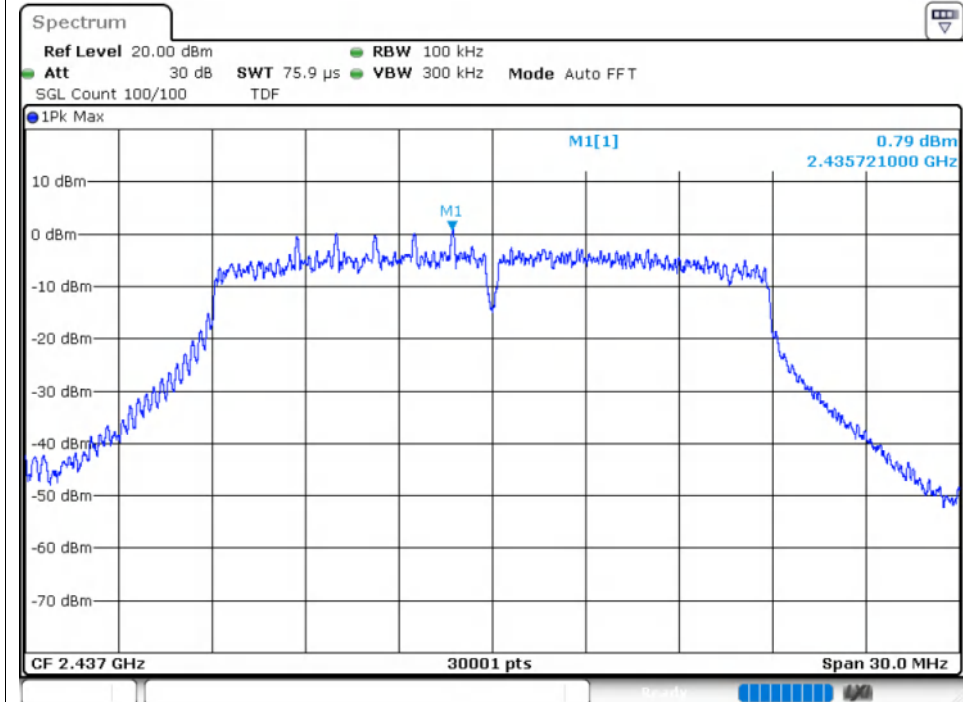
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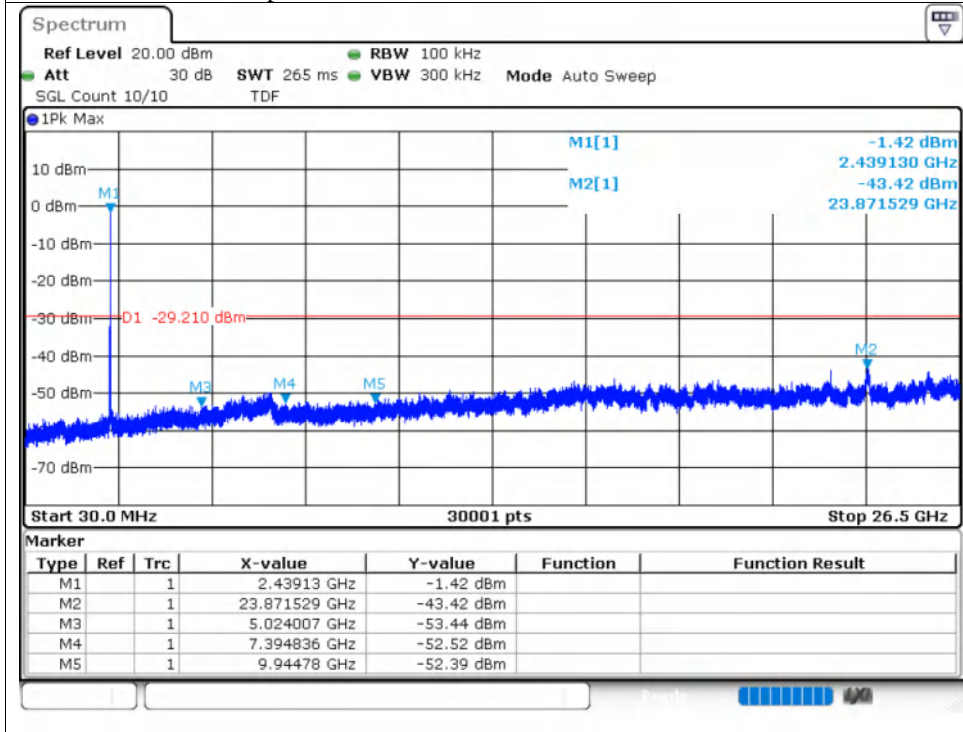
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



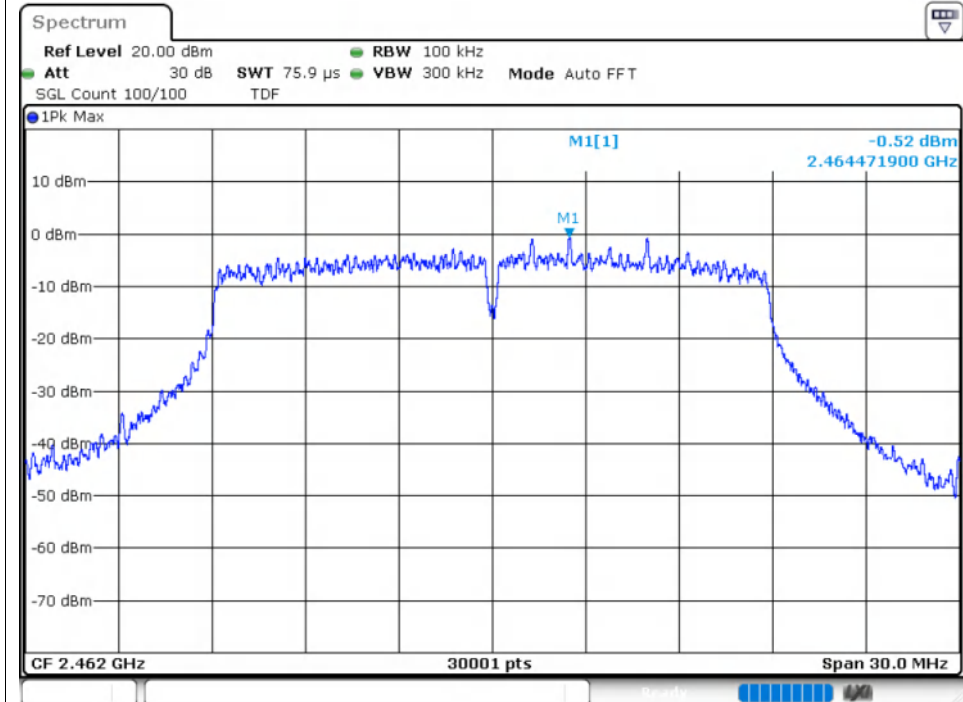
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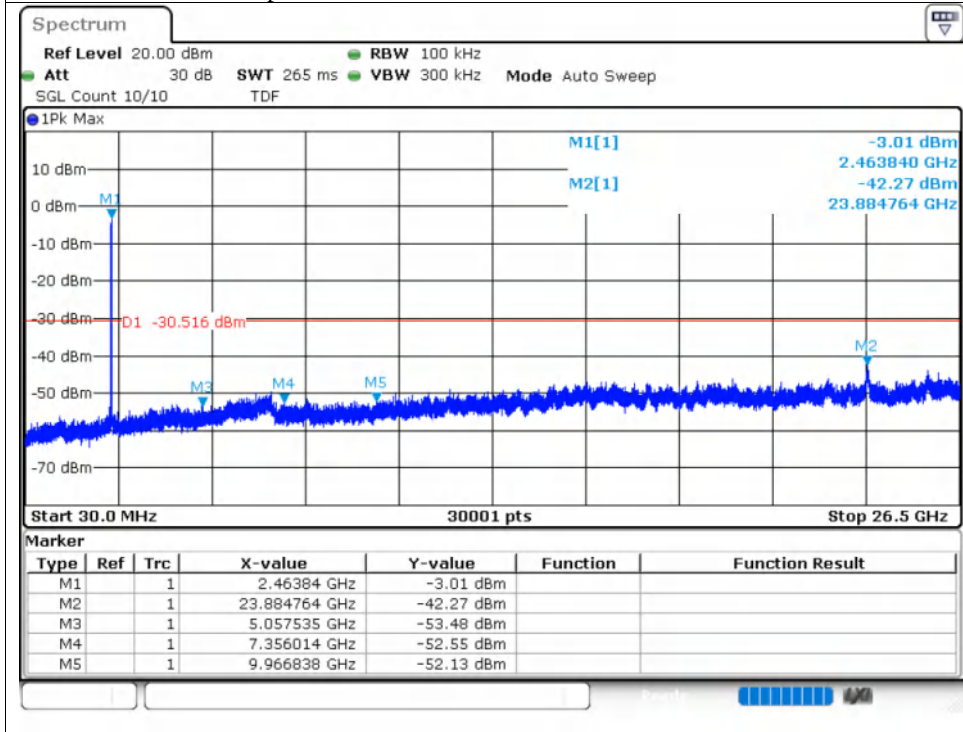
Tx. Spurious NVNT n20 2437MHz Ant1 Emission



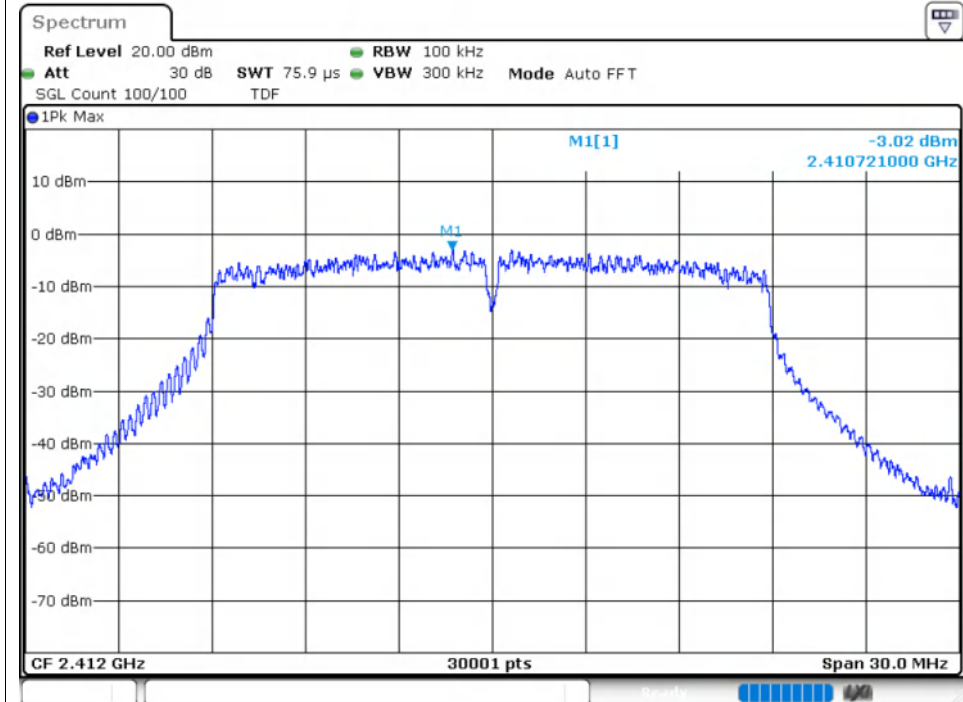
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



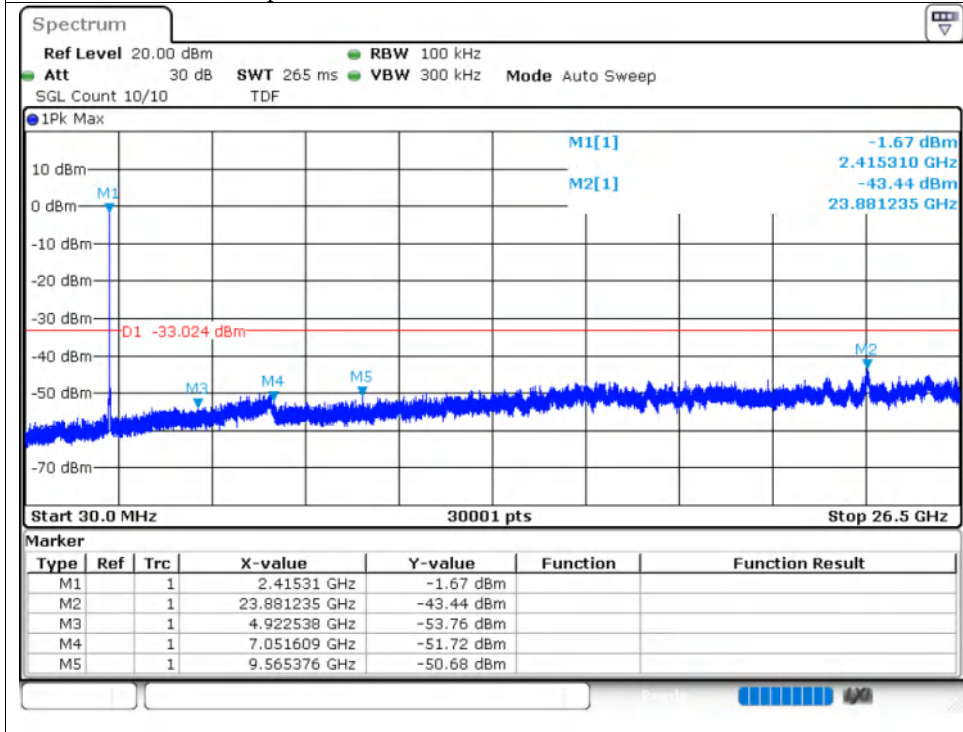
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



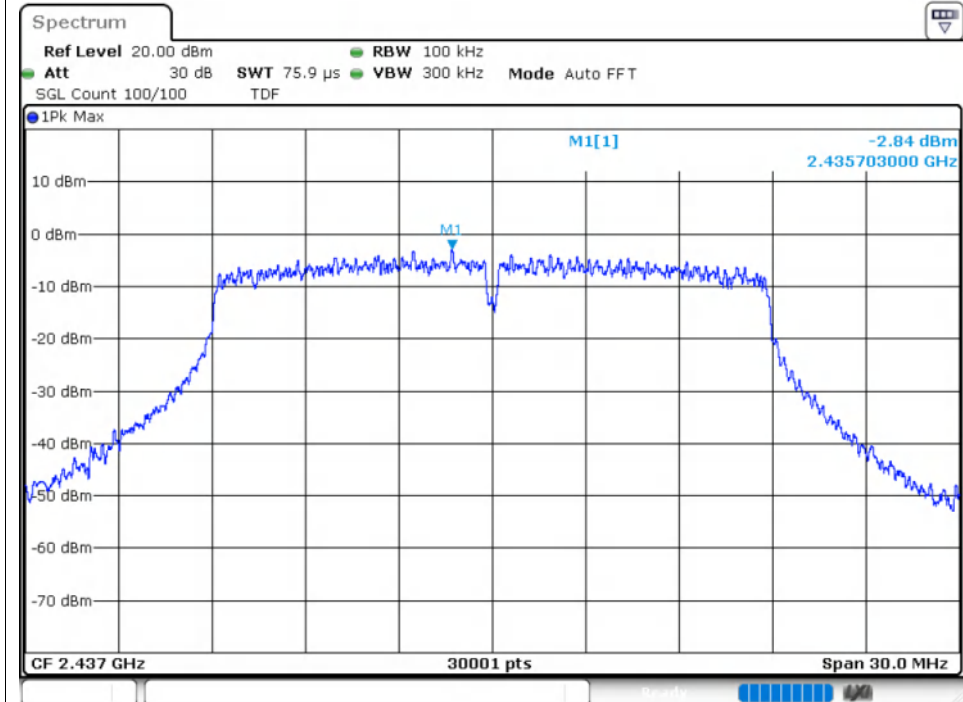
Tx. Spurious NVNT n20 2412MHz Ant2 Ref



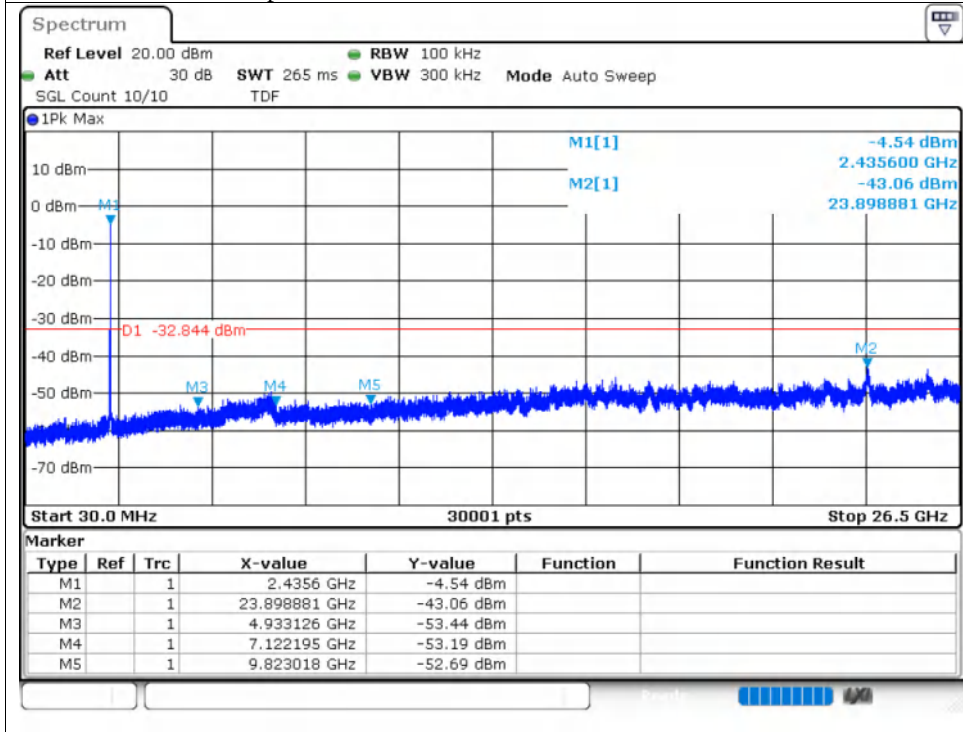
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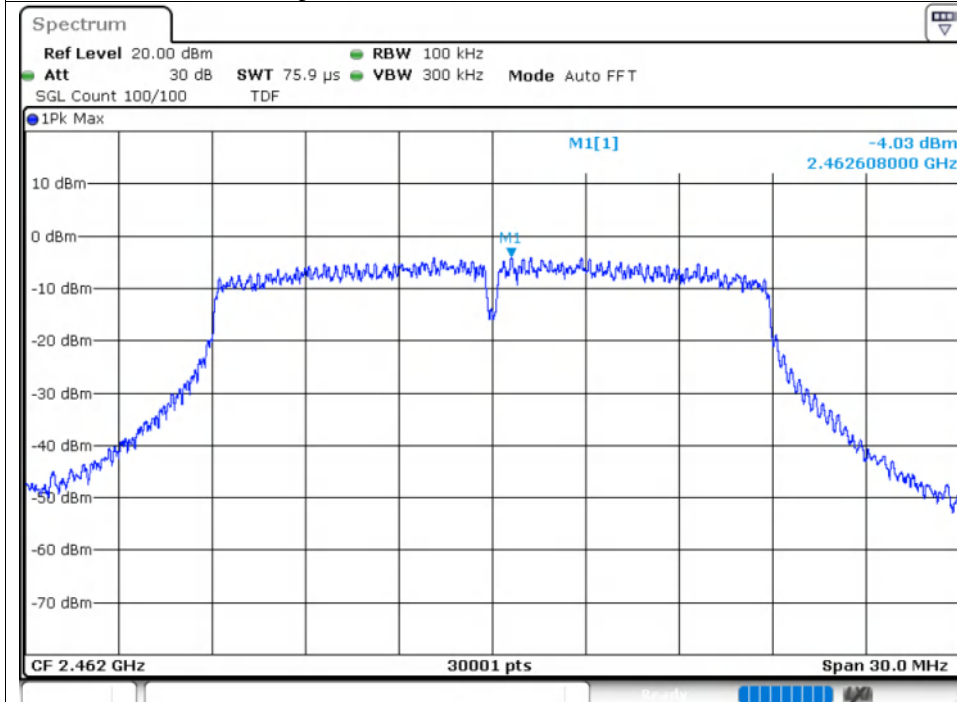
Tx. Spurious NVNT n20 2437MHz Ant2 Ref



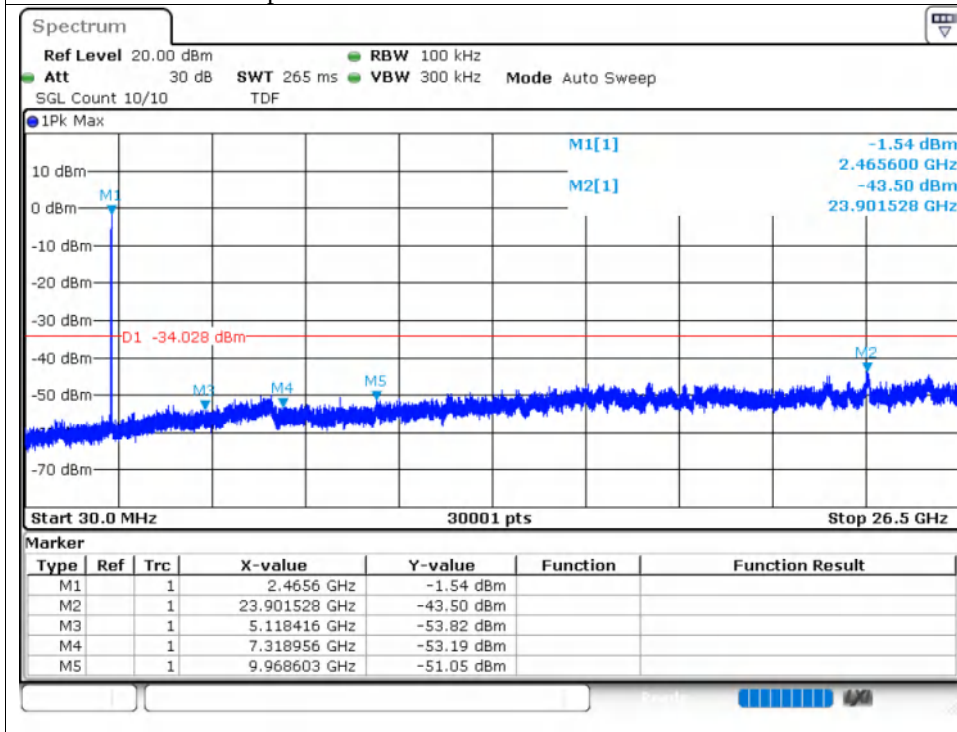
Tx. Spurious NVNT n20 2437MHz Ant2 Emission



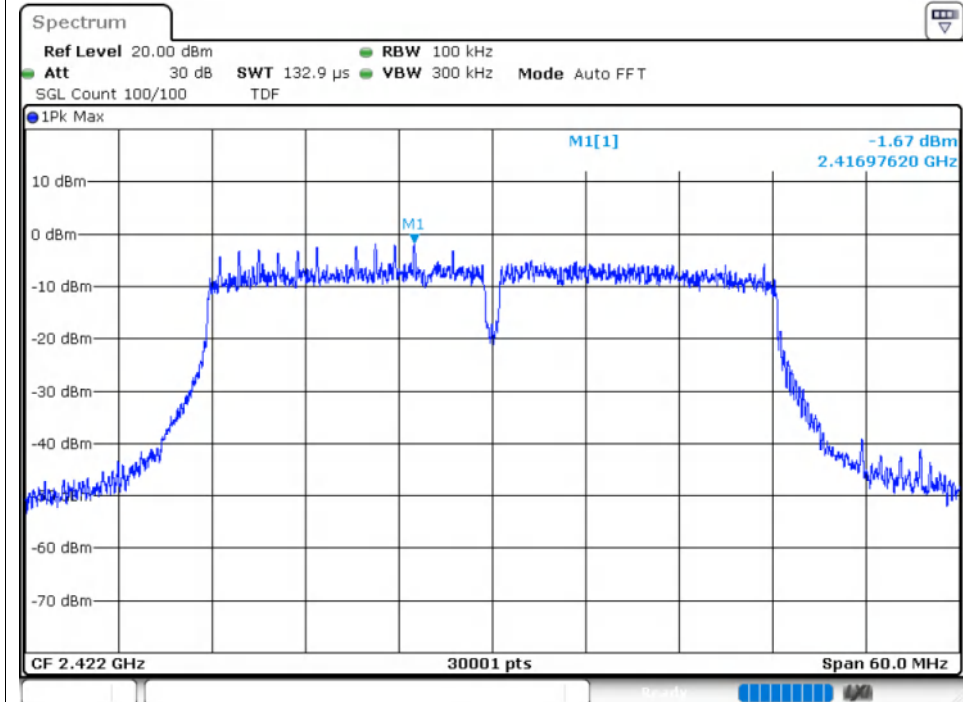
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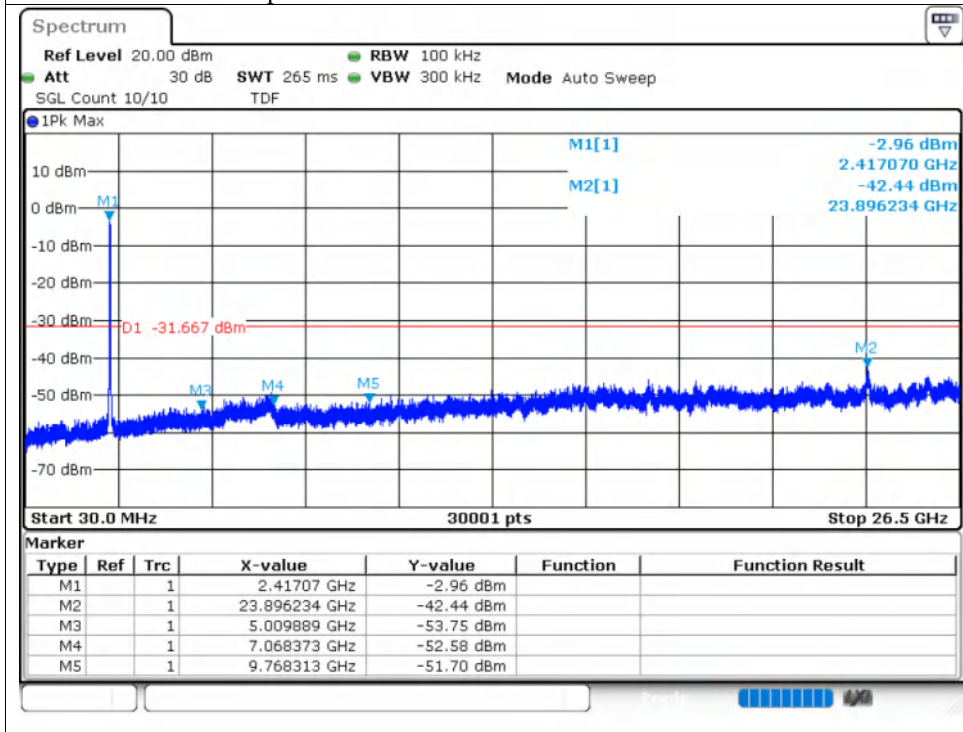
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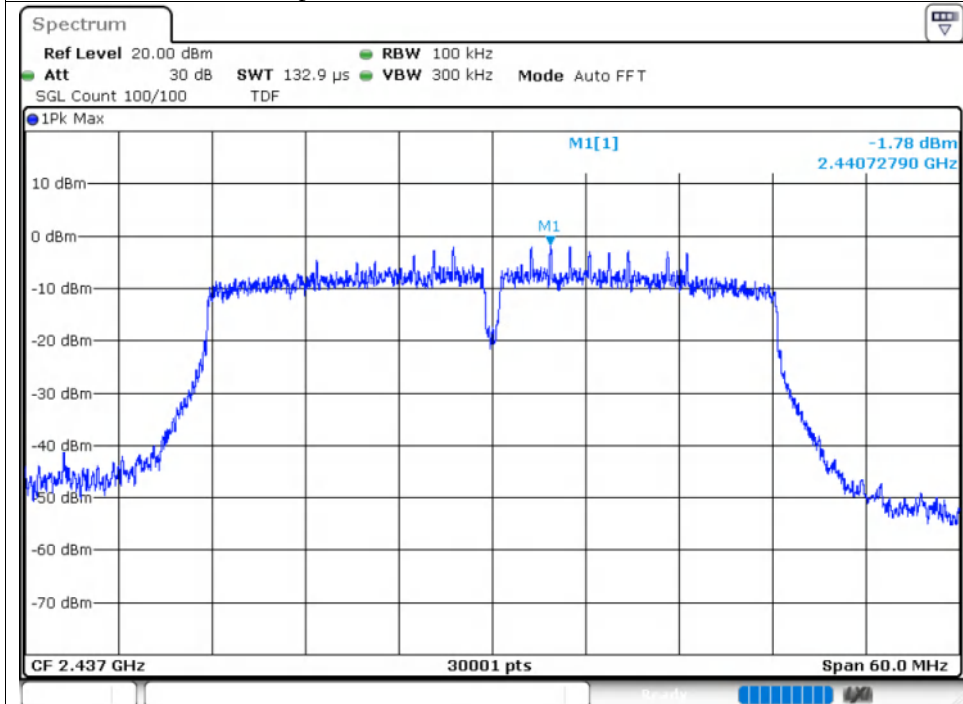
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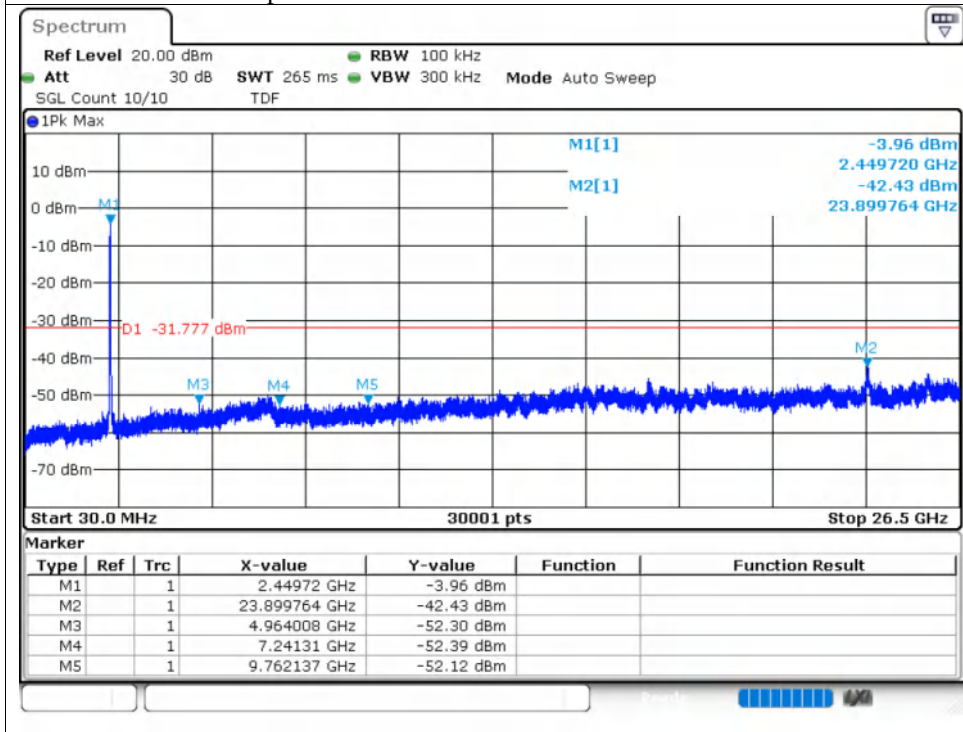
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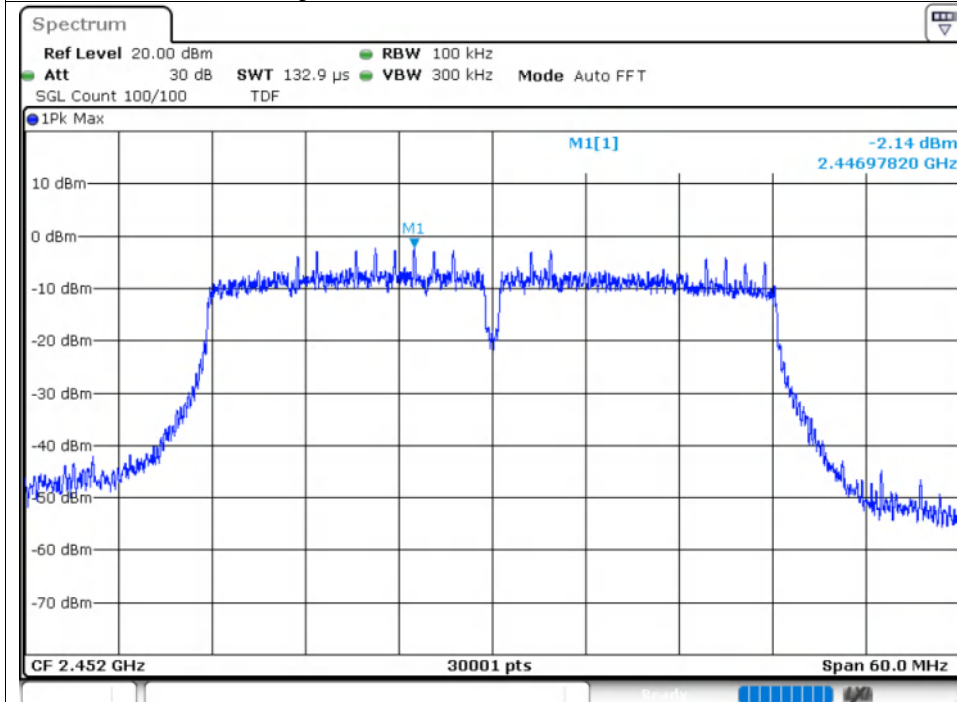
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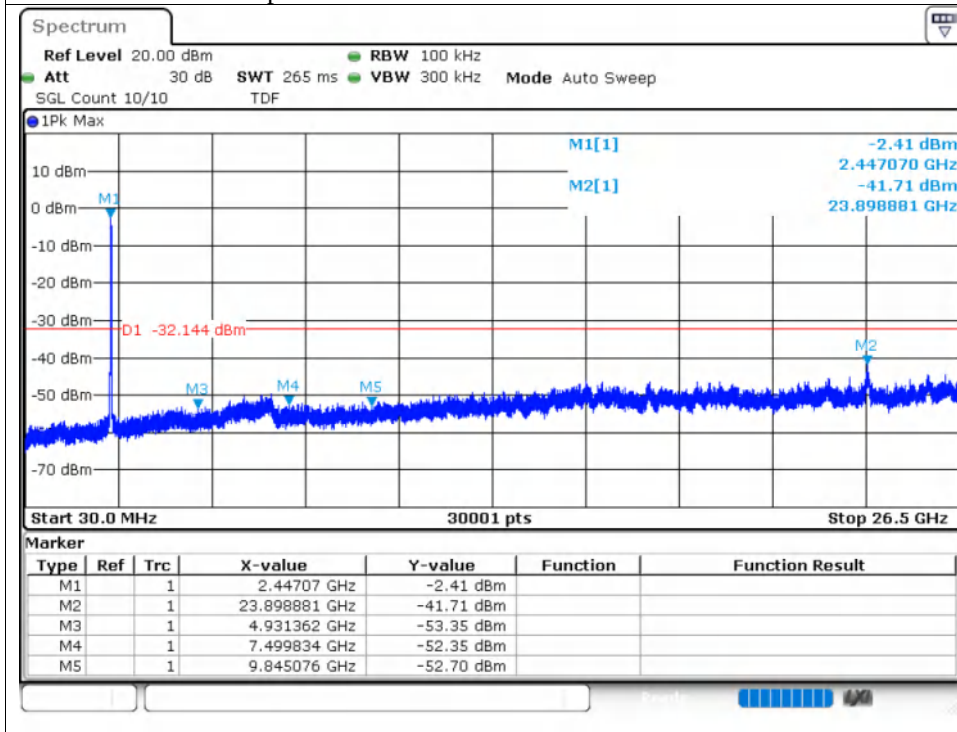
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



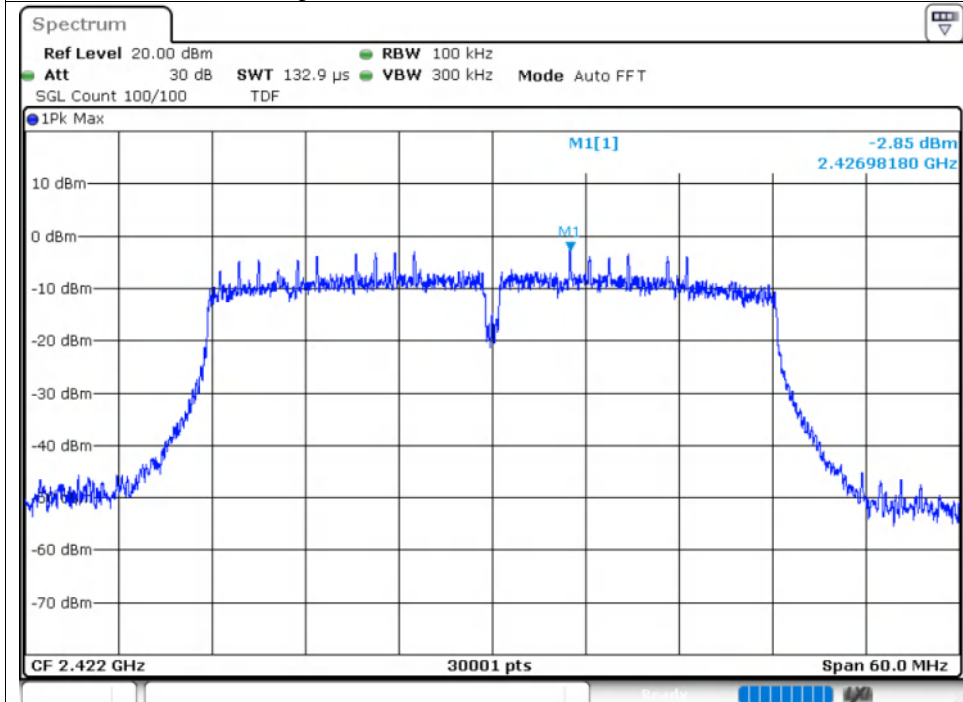
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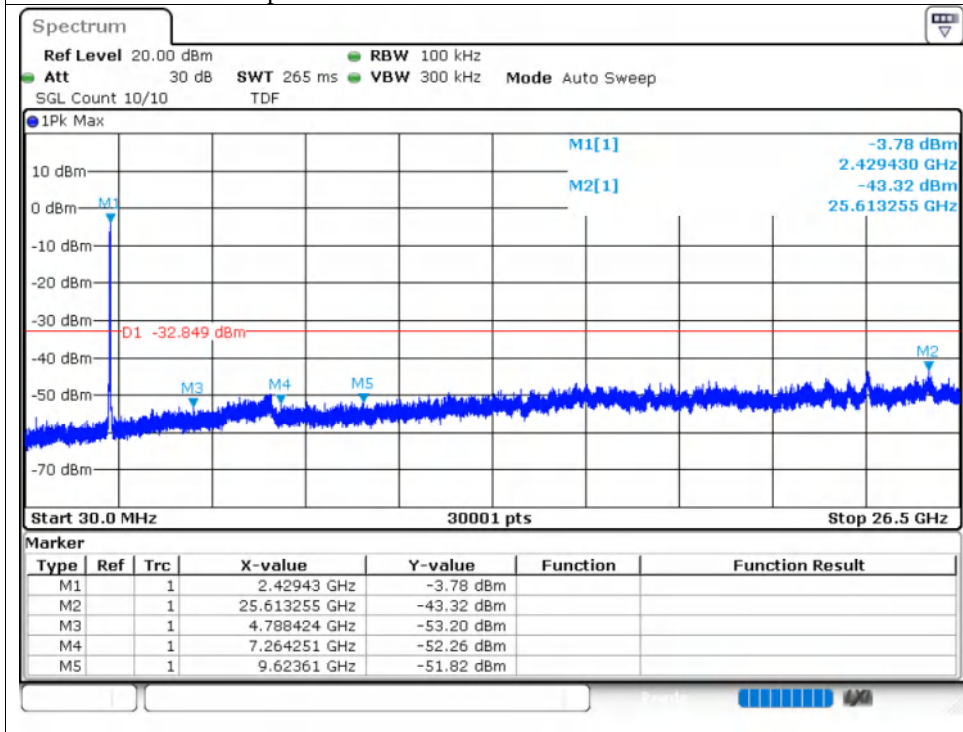
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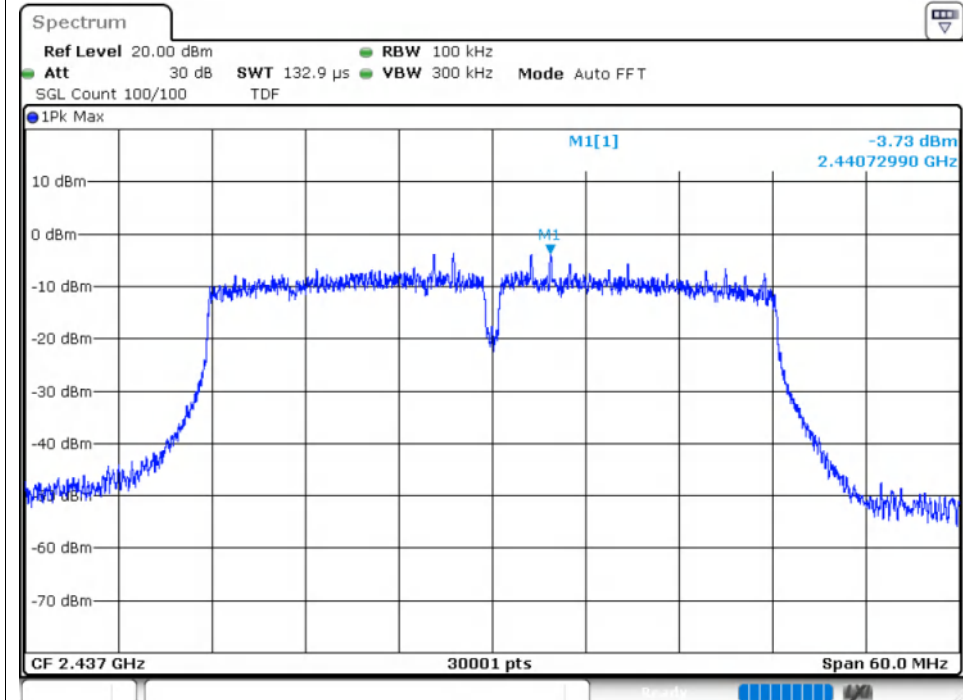
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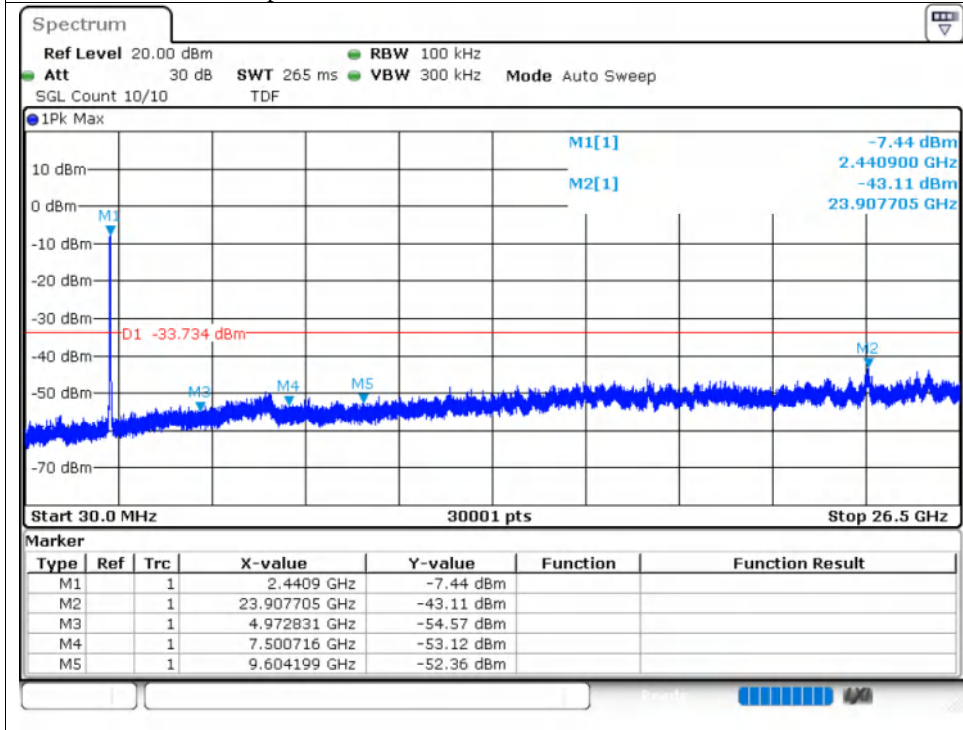
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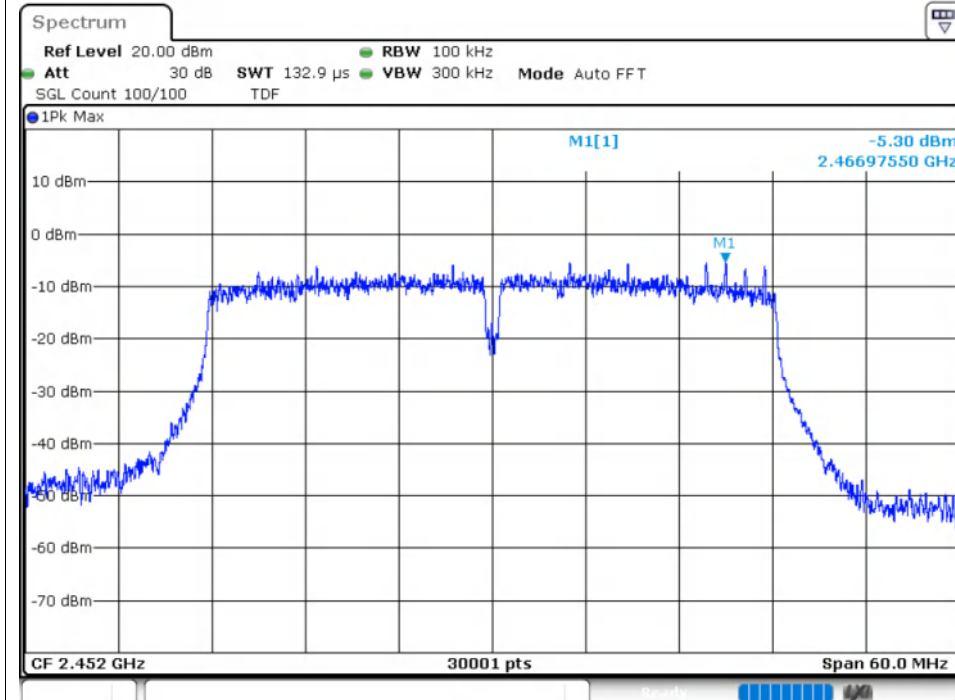
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



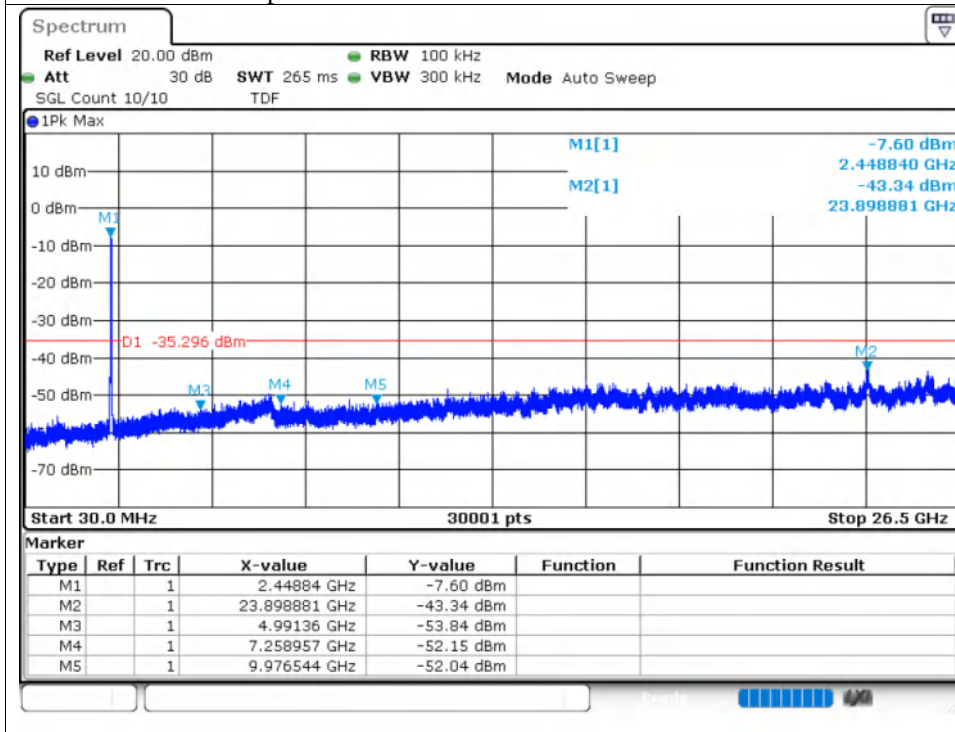
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



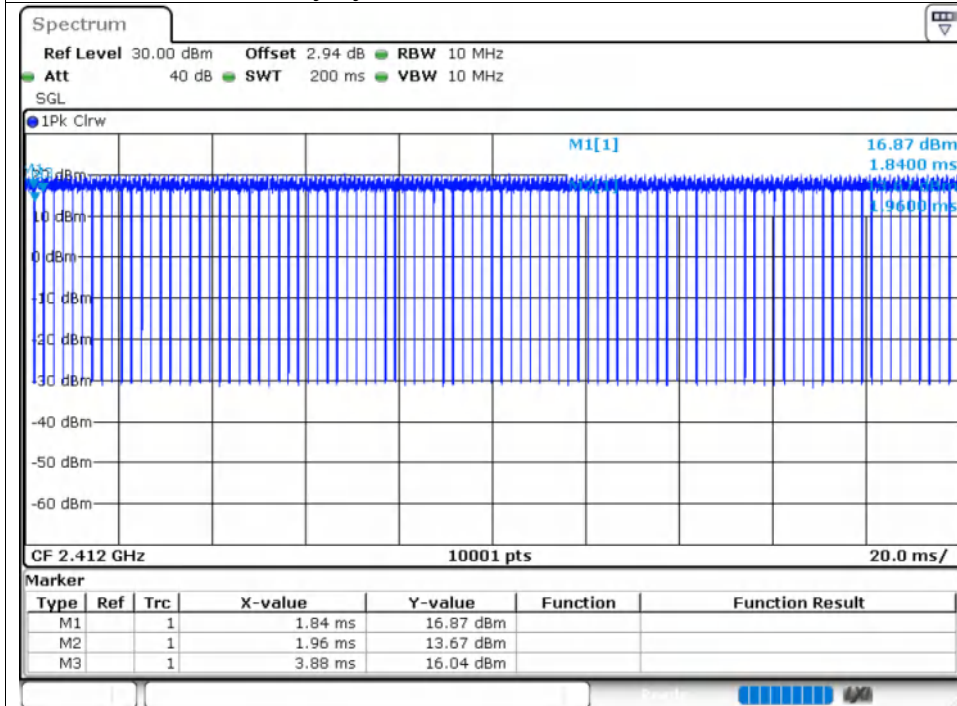
8.2 2.4G WIFI MIMO

8.2.1 Maximum Duty Cycle

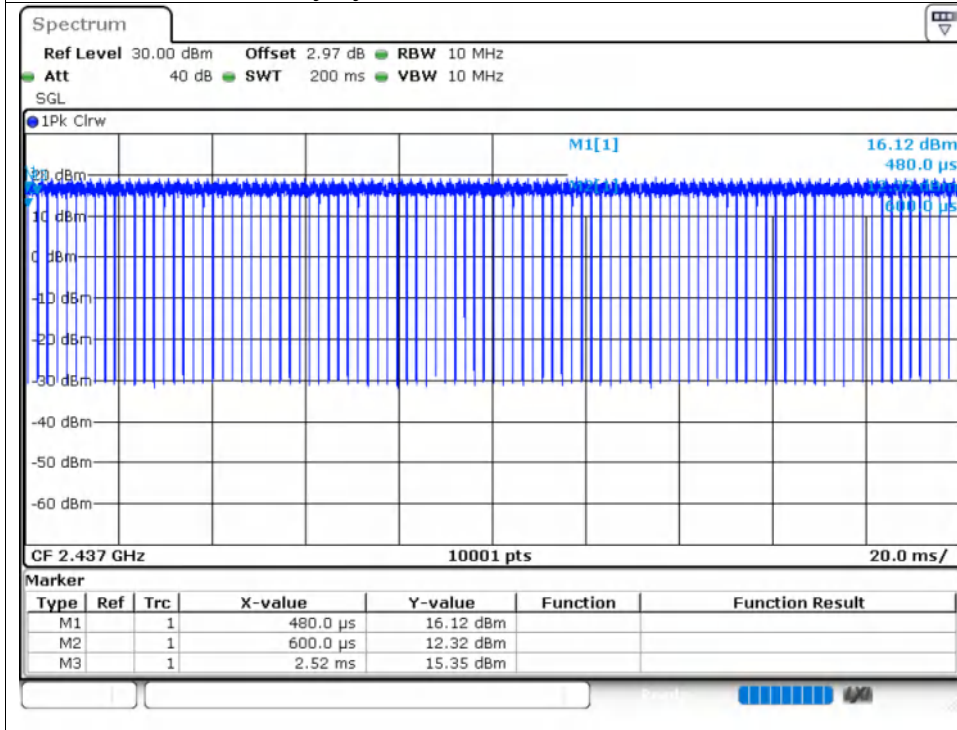
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	n20	2412	Ant1	93.14	0.31	0.52
NVNT	n20	2437	Ant1	93.47	0.29	0.52
NVNT	n20	2462	Ant1	92.89	0.32	0.52
NVNT	n40	2422	Ant1	87.01	0.6	1.05
NVNT	n40	2437	Ant1	85.33	0.69	1.06
NVNT	n40	2452	Ant1	85.8	0.67	1.06

Test Graphs

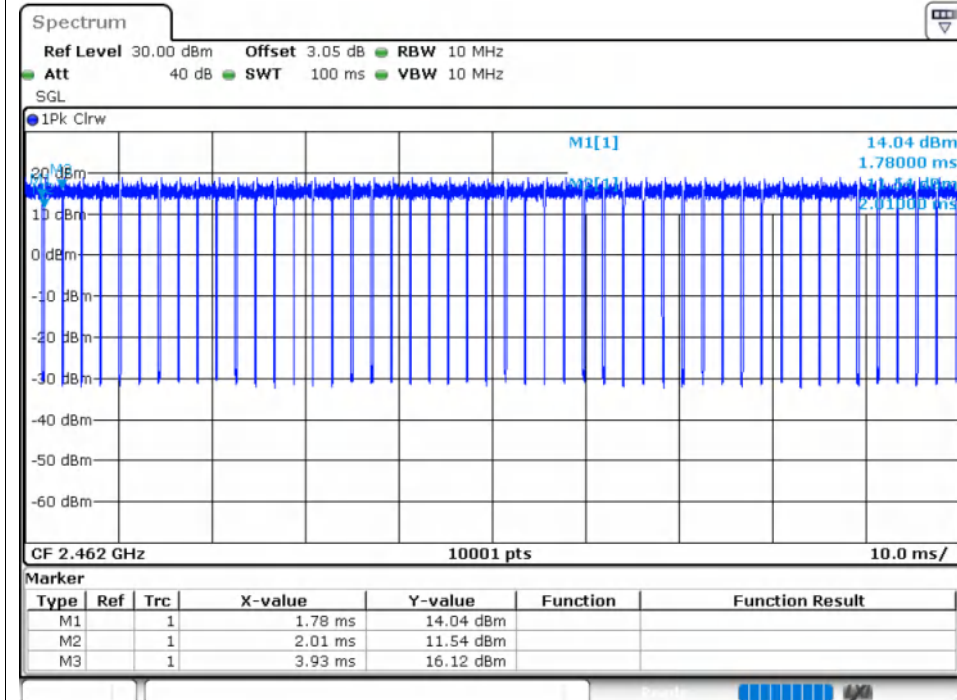
Duty Cycle NVNT n20 2412MHz Sum



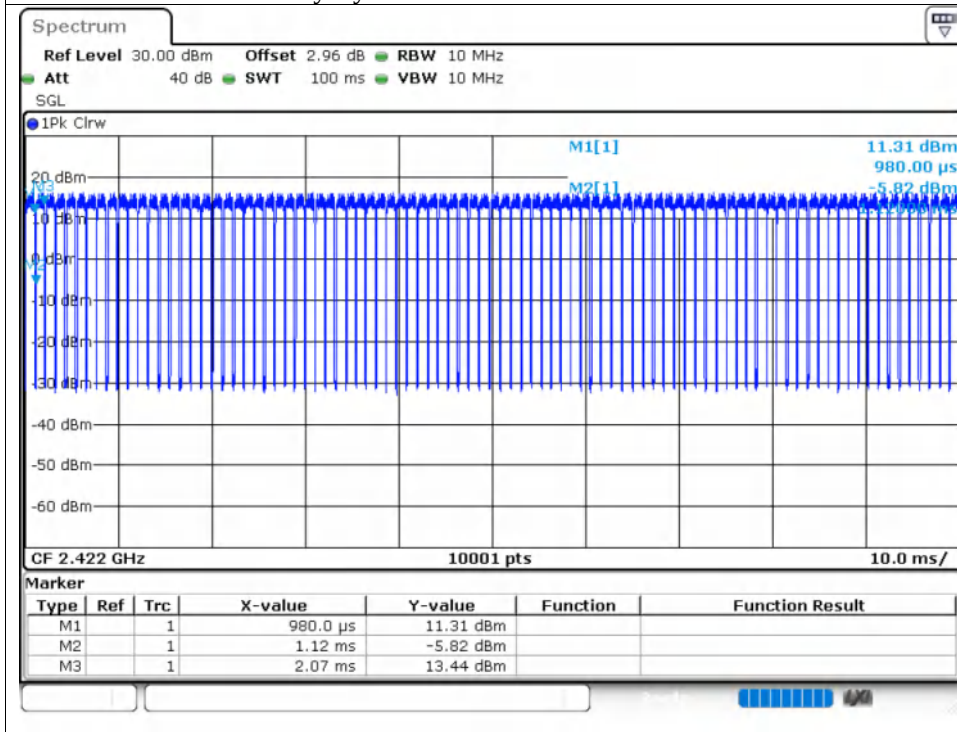
Duty Cycle NVNT n20 2437MHz Sum



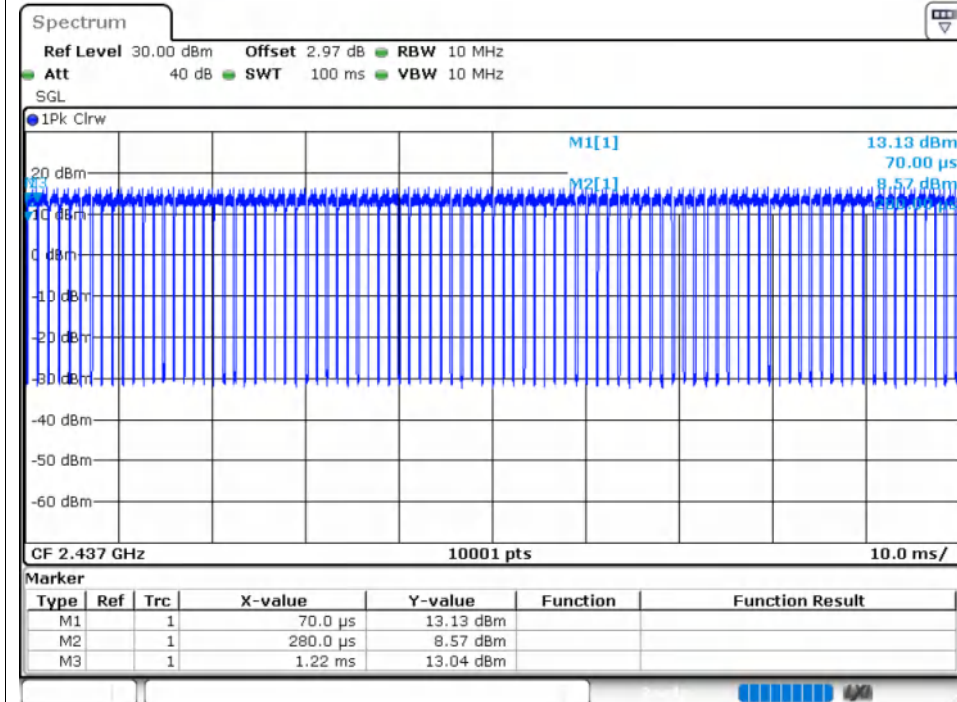
Duty Cycle NVNT n20 2462MHz Sum



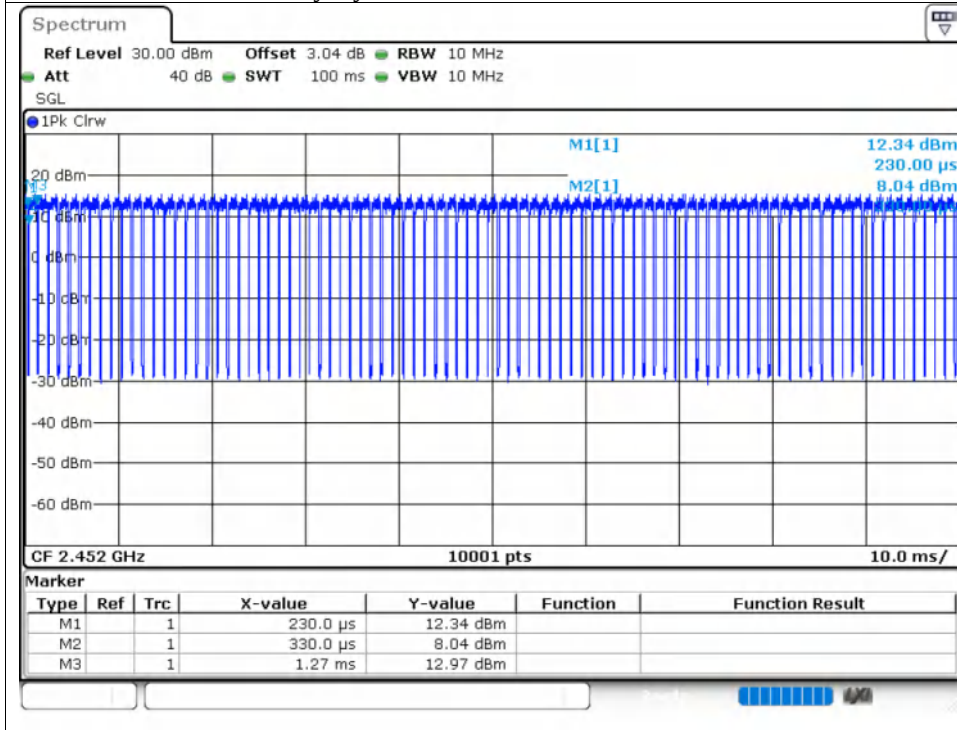
Duty Cycle NVNT n40 2422MHz Sum



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)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	n20	2412	Ant1	11.71	0.31	12.02	30	Pass
NVNT	n20	2412	Ant2	11.8	0.31	12.11	30	Pass
NVNT	n20	2412	Sum	14.77	0.31	15.08	30	Pass
NVNT	n20	2437	Ant1	10.77	0.29	11.06	30	Pass
NVNT	n20	2437	Ant2	10.95	0.29	11.24	30	Pass
NVNT	n20	2437	Sum	13.87	0.29	14.16	30	Pass
NVNT	n20	2462	Ant1	10.62	0.32	10.94	30	Pass
NVNT	n20	2462	Ant2	10.48	0.32	10.80	30	Pass
NVNT	n20	2462	Sum	13.56	0.32	13.88	30	Pass
NVNT	n40	2422	Ant1	11.49	0.6	12.09	30	Pass
NVNT	n40	2422	Ant2	11.47	0.6	12.07	30	Pass
NVNT	n40	2422	Sum	14.49	0.6	15.09	30	Pass
NVNT	n40	2437	Ant1	10.96	0.69	11.65	30	Pass
NVNT	n40	2437	Ant2	11.14	0.69	11.83	30	Pass
NVNT	n40	2437	Sum	14.06	0.69	14.75	30	Pass
NVNT	n40	2452	Ant1	10.76	0.67	11.43	30	Pass
NVNT	n40	2452	Ant2	10.79	0.67	11.46	30	Pass
NVNT	n40	2452	Sum	13.79	0.67	14.46	30	Pass

Note: For 802.11n20/n40, this device employ CDD for MIMO mode, according to KDB 662911 D01 Multiple Transmitter Output v02r01,
 Directional gain = $G_{ANT} + 10 \log(N)$
 Directional gain = $1.95 + 3 = 4.95 \text{ dBi} < 6 \text{ dBi}$, So the limit does not need to be reduced.

8.2.3 Maximum Power Spectral Density Level

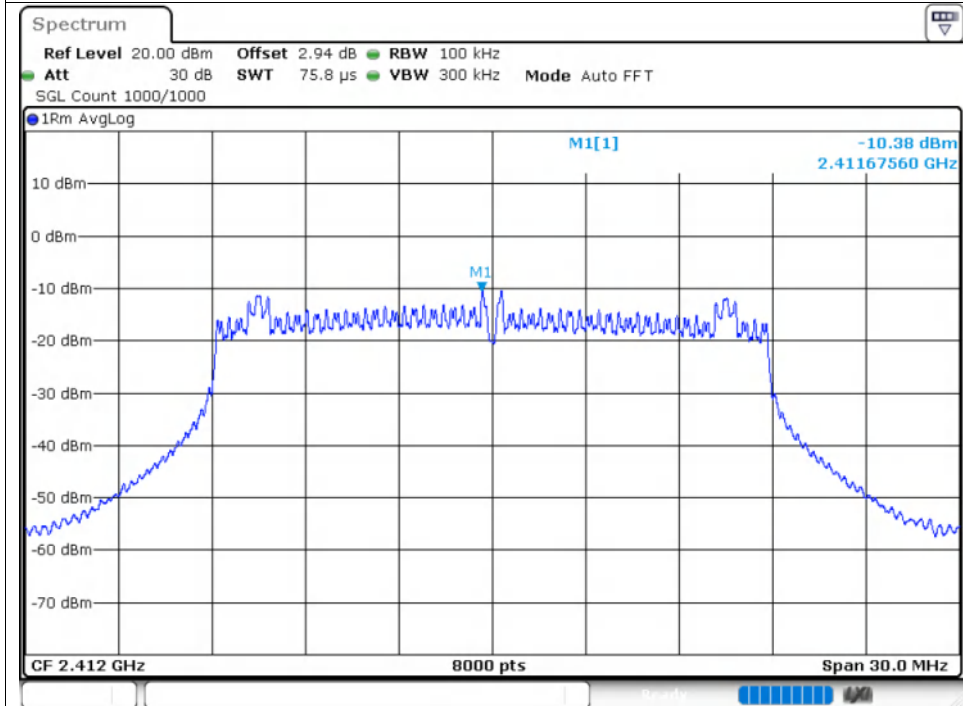
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Duty Factor (dB)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	n20	2412	Ant1	-10.38	0.31	-10.07	8	Pass
NVNT	n20	2412	Ant2	-12.12	0.31	-11.81	8	Pass
NVNT	n20	2412	Sum	-8.15	0.31	-7.84	8	Pass
NVNT	n20	2437	Ant1	-11.37	0.29	-11.08	8	Pass
NVNT	n20	2437	Ant2	-12.39	0.29	-12.1	8	Pass
NVNT	n20	2437	Sum	-8.84	0.29	-8.55	8	Pass
NVNT	n20	2462	Ant1	-11.46	0.32	-11.14	8	Pass
NVNT	n20	2462	Ant2	-12.61	0.32	-12.29	8	Pass
NVNT	n20	2462	Sum	-8.99	0.32	-8.67	8	Pass
NVNT	n40	2422	Ant1	-14.15	0.6	-13.55	8	Pass
NVNT	n40	2422	Ant2	-15.22	0.6	-14.62	8	Pass
NVNT	n40	2422	Sum	-11.64	0.6	-11.04	8	Pass
NVNT	n40	2437	Ant1	-13.81	0.69	-13.12	8	Pass
NVNT	n40	2437	Ant2	-15.2	0.69	-14.51	8	Pass
NVNT	n40	2437	Sum	-11.44	0.69	-10.75	8	Pass
NVNT	n40	2452	Ant1	-14.21	0.67	-13.54	8	Pass
NVNT	n40	2452	Ant2	-16.03	0.67	-15.36	8	Pass
NVNT	n40	2452	Sum	-12.02	0.67	-11.35	8	Pass

Note: For 802.11n20/n40, this device employ CDD for MIMO mode, according to KDB 662911 D01 Multiple Transmitter Output v02r01,

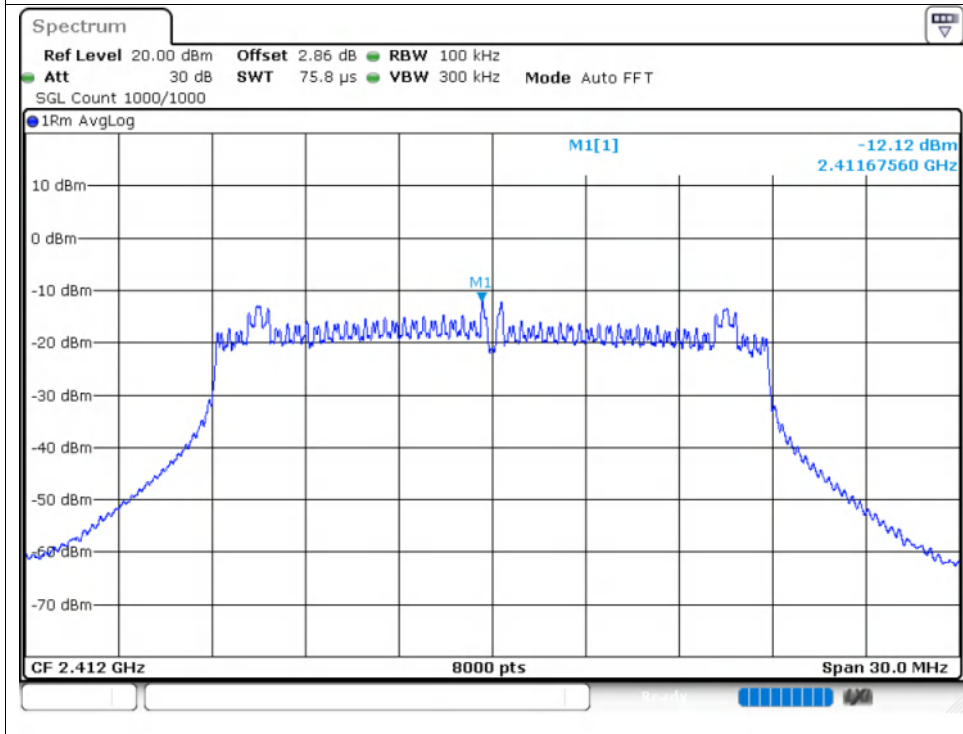
Directional gain = GANT + 10 log(N)

Directional gain=1.95+3=4.95dBi < 6dBi, So the limit does not need to be reduced.

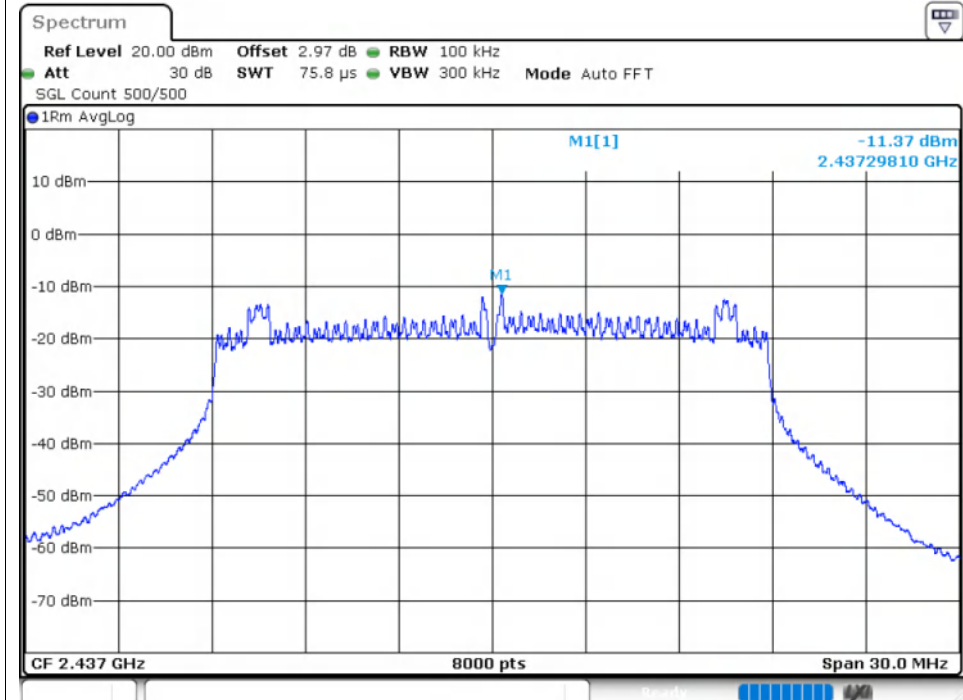
Test Graphs
PSD NVNT n20 2412MHz Ant1



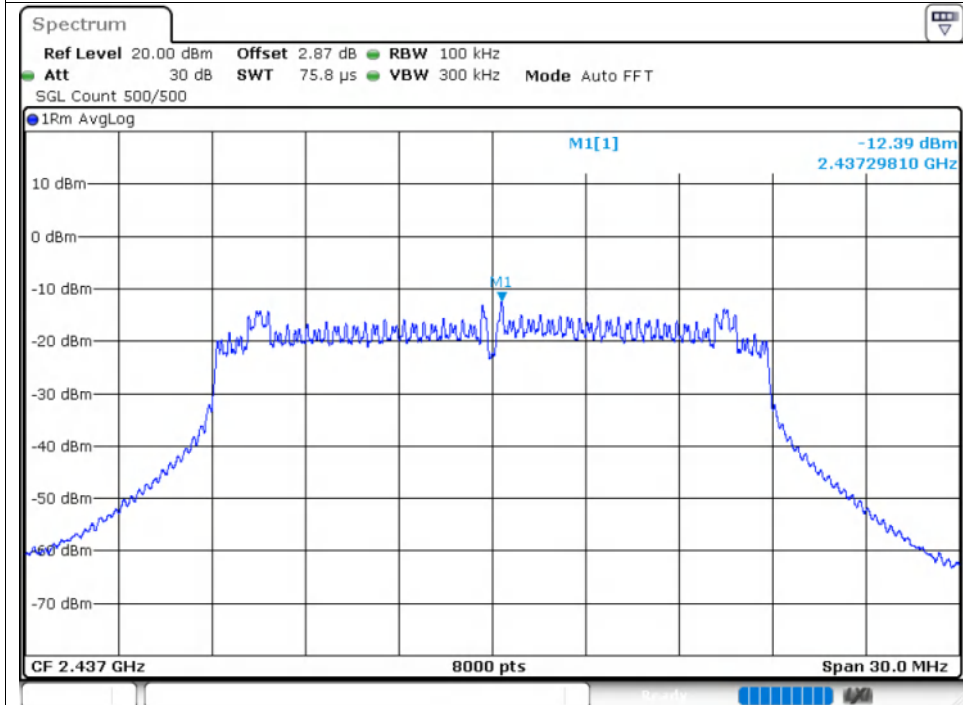
PSD NVNT n20 2412MHz Ant2



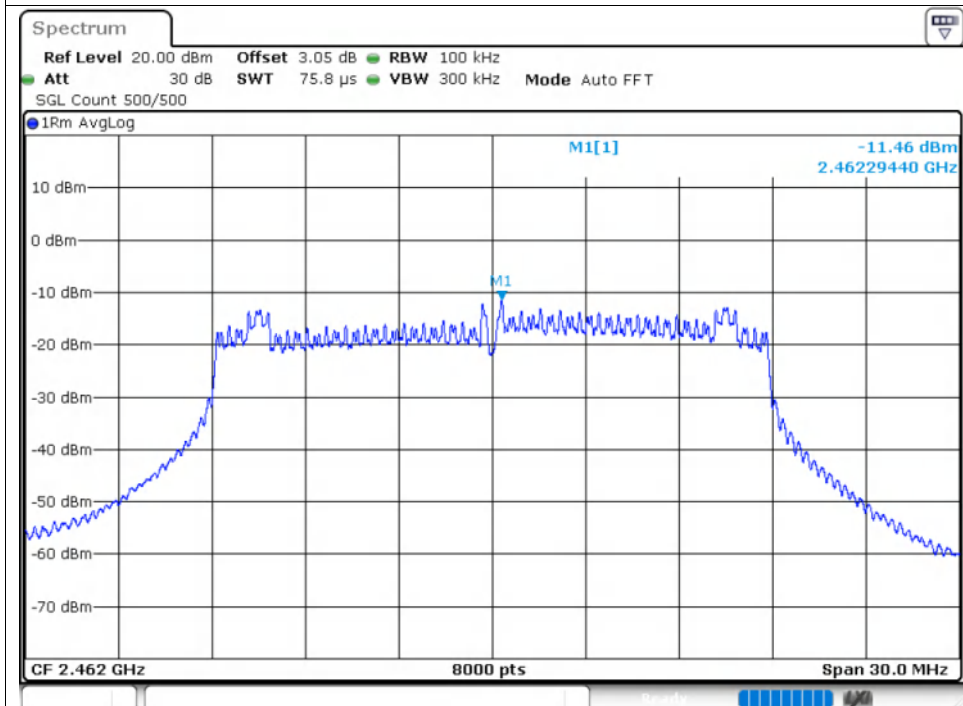
PSD NVNT n20 2437MHz Ant1



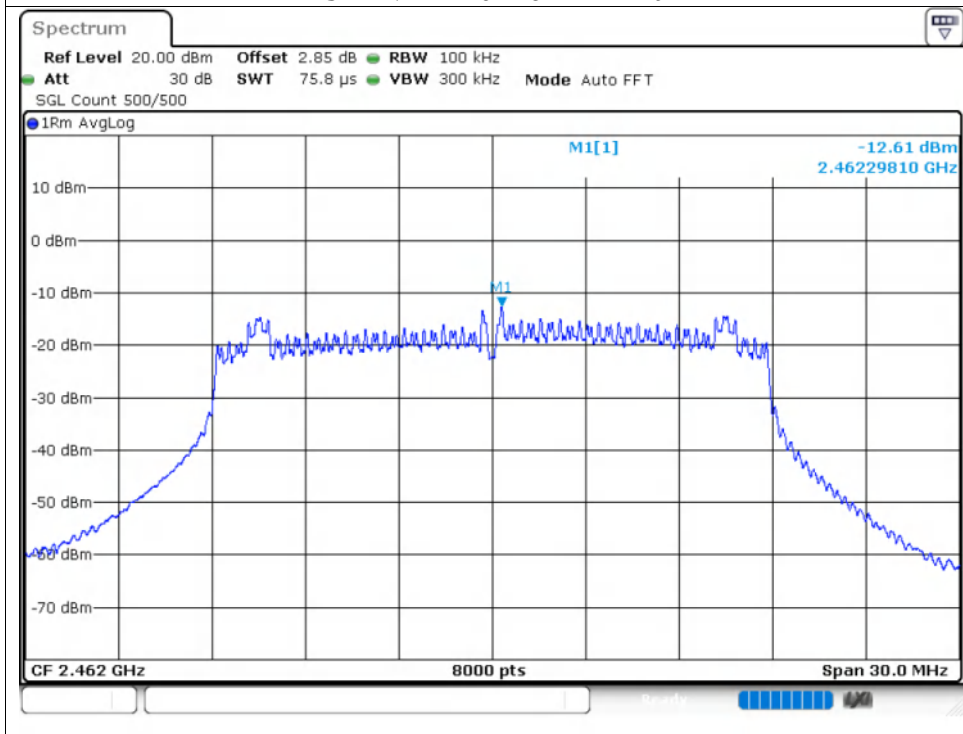
PSD NVNT n20 2437MHz Ant2



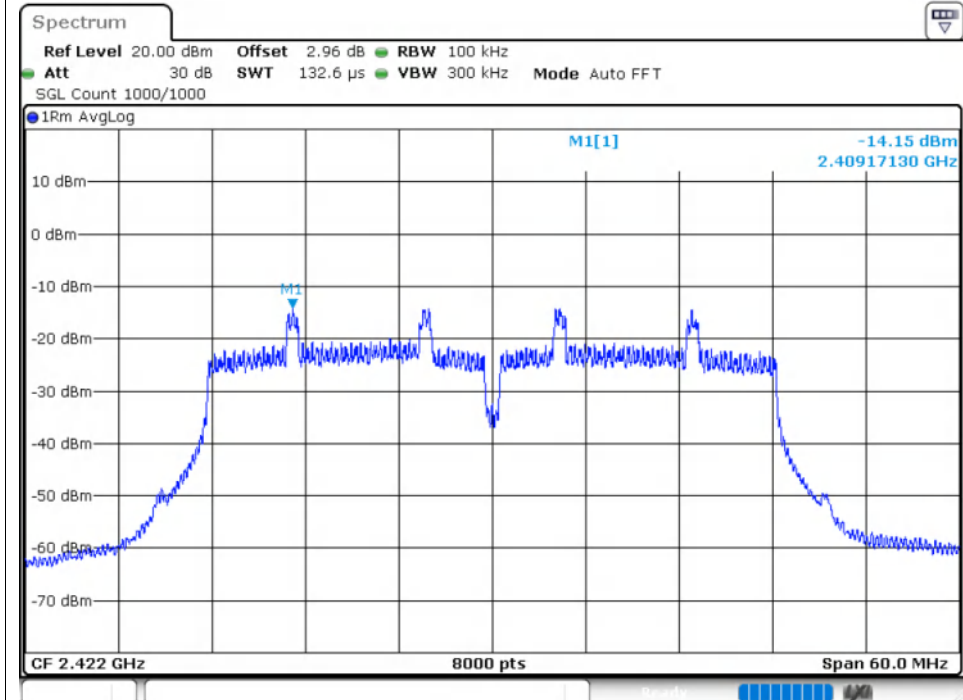
PSD NVNT n20 2462MHz Ant1



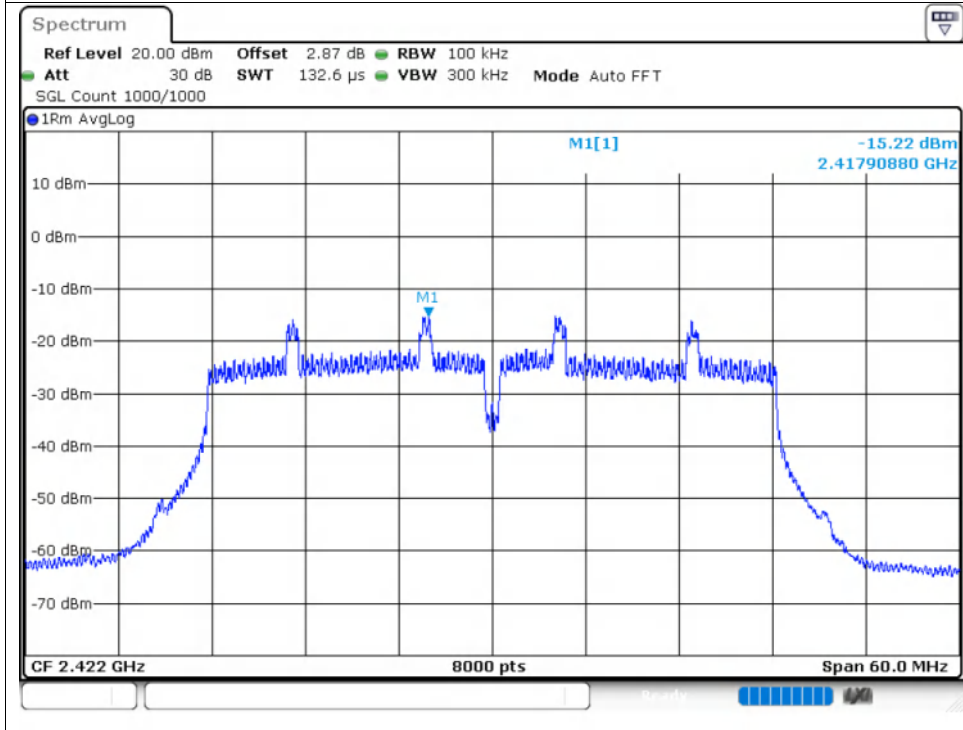
PSD NVNT n20 2462MHz Ant2



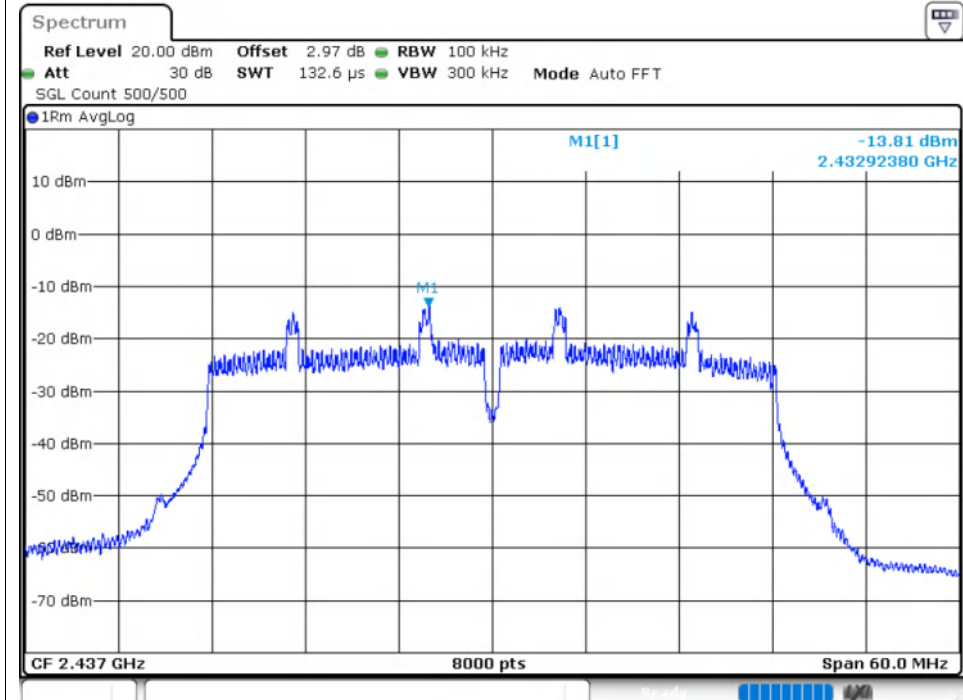
PSD NVNT n40 2422MHz Ant1



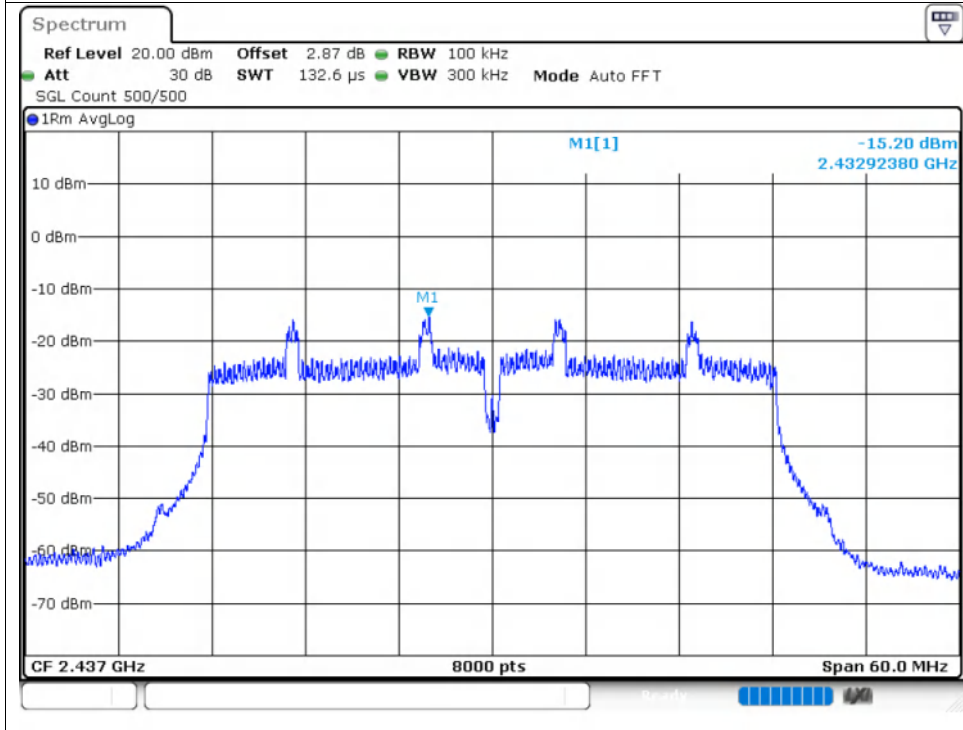
PSD NVNT n40 2422MHz Ant2

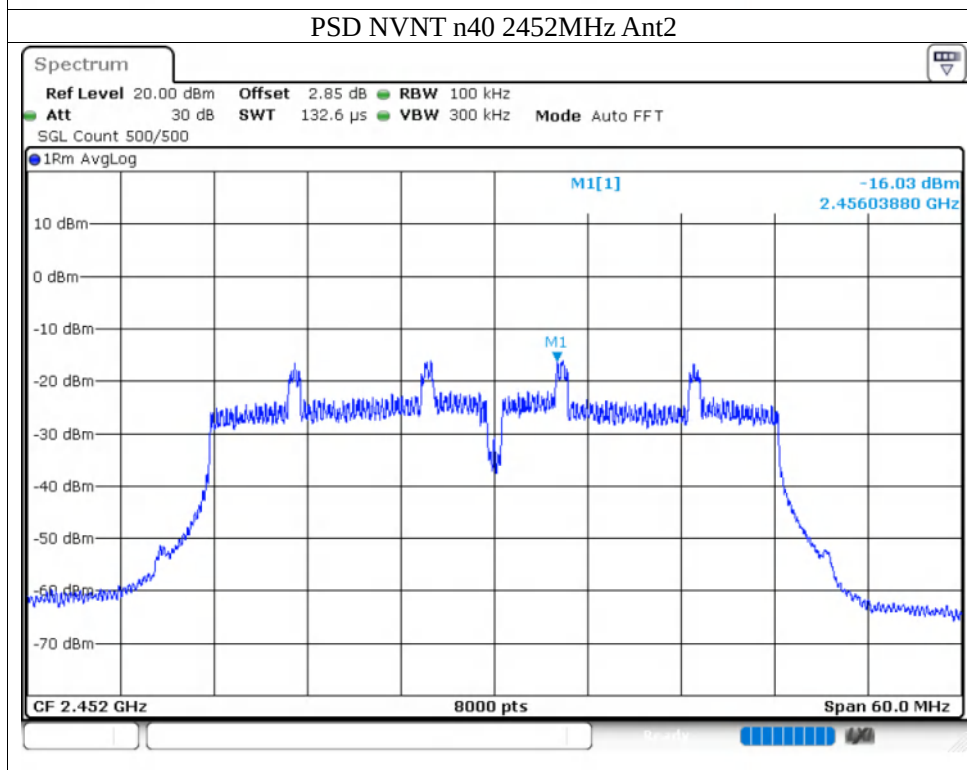
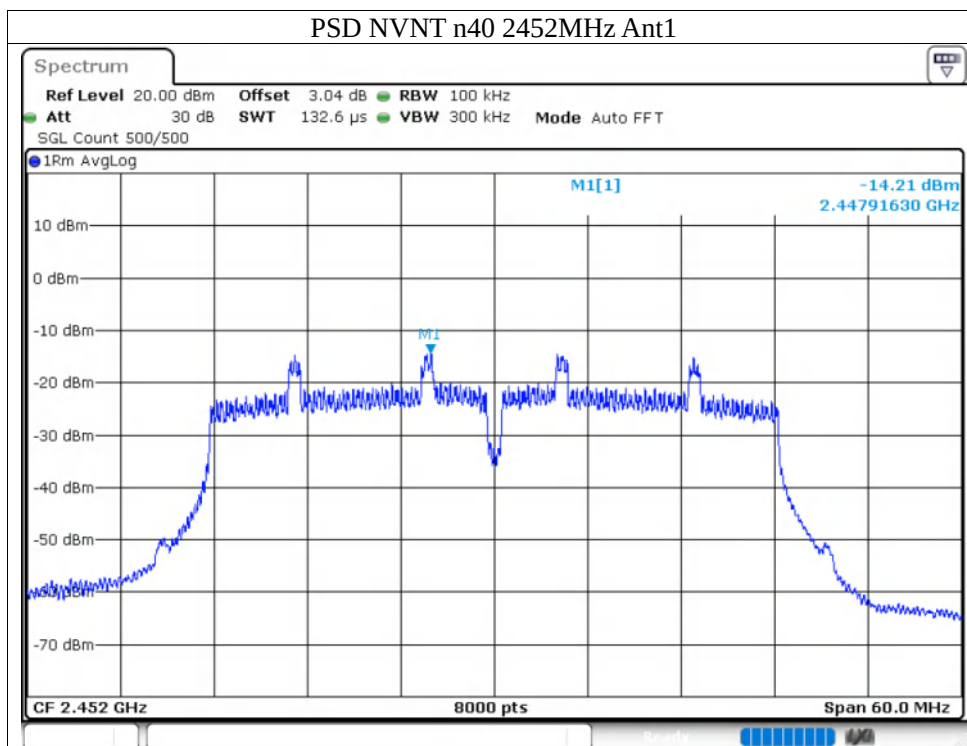


PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2437MHz Ant2





END OF REPORT