

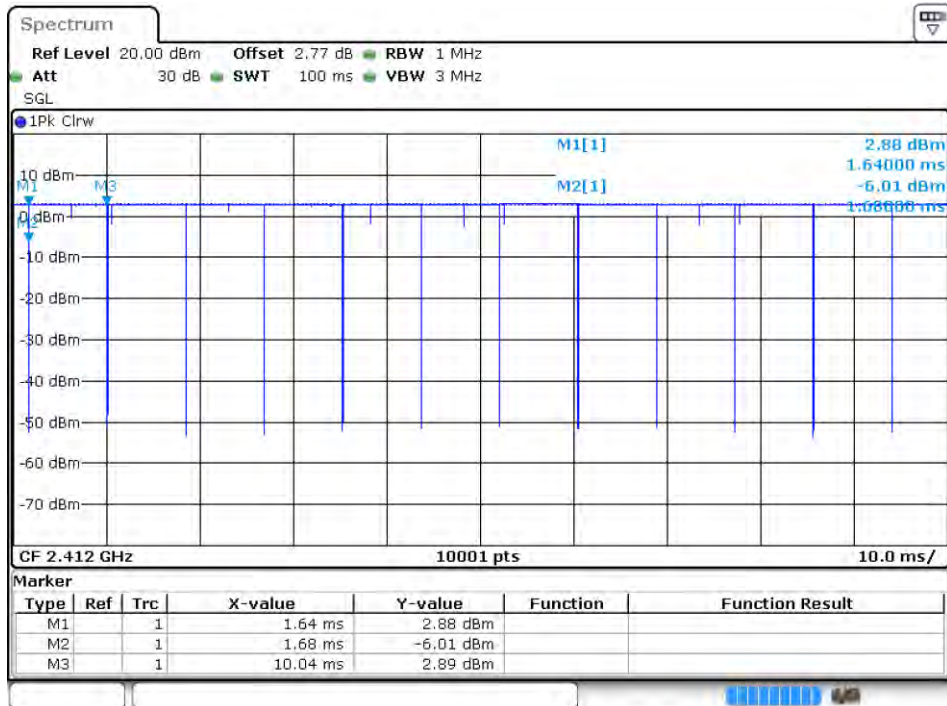
Appendix A

Duty Cycle

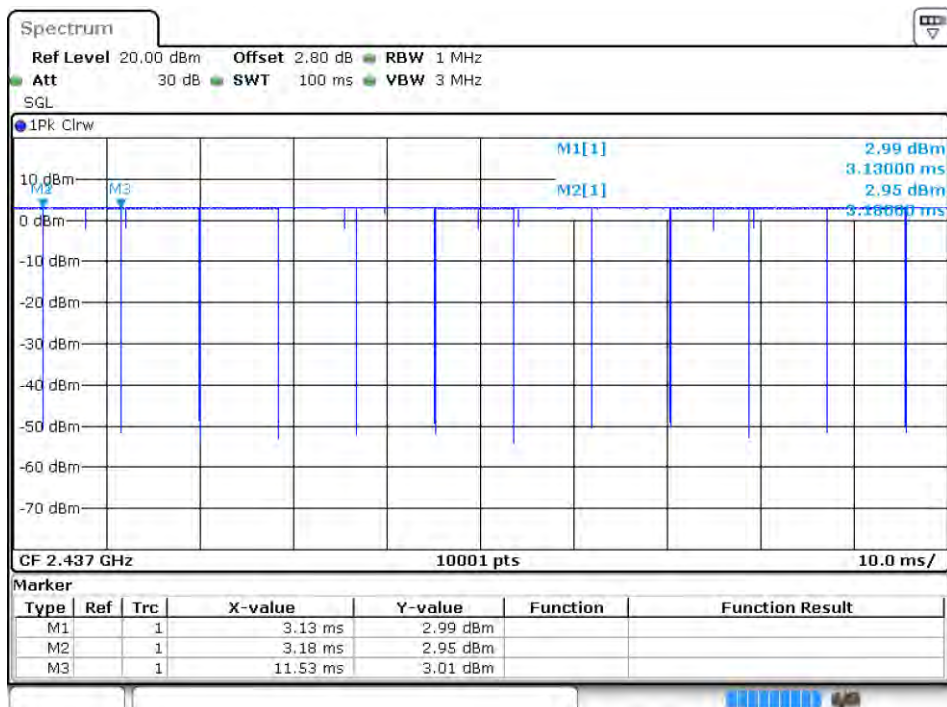
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.61	0.02	0.12
NVNT	b	2437	Ant1	99.59	0.02	0.12
NVNT	b	2462	Ant1	99.6	0.02	0.12
NVNT	g	2412	Ant1	86.91	0.61	4.76
NVNT	g	2437	Ant1	86.98	0.61	4.55
NVNT	g	2462	Ant1	86.9	0.61	4.76
NVNT	n20	2412	Ant1	87.57	0.58	4.35
NVNT	n20	2437	Ant1	87.6	0.57	4.35
NVNT	n20	2462	Ant1	87.58	0.58	4.35
NVNT	n40	2422	Ant1	88.03	0.55	4.17
NVNT	n40	2437	Ant1	88.02	0.55	4
NVNT	n40	2452	Ant1	88	0.56	4

Test Graphs

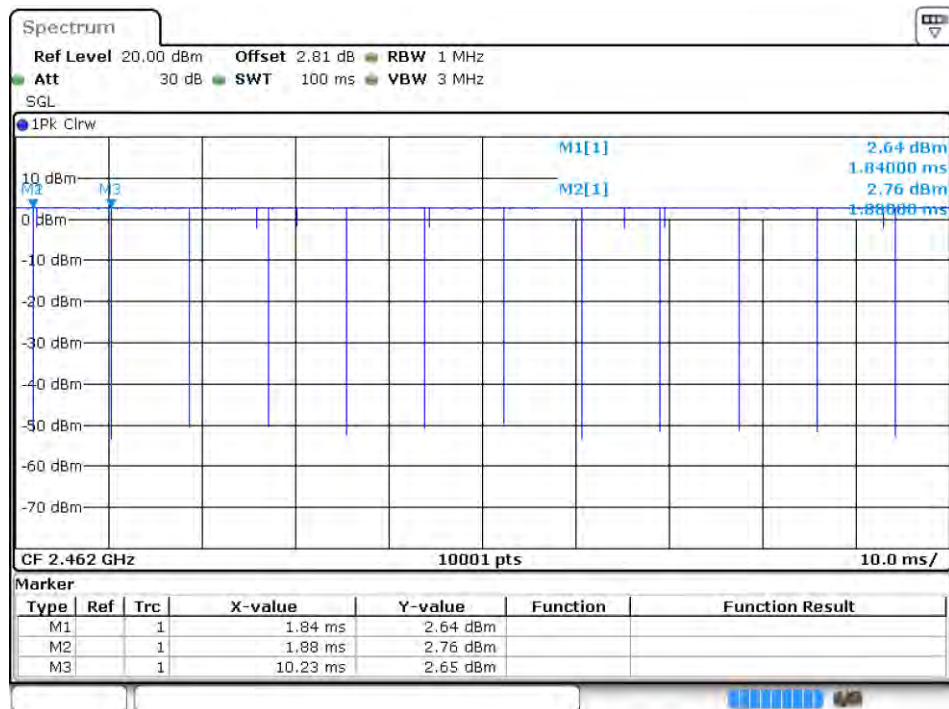
Duty Cycle NVNT b 2412MHz Ant1



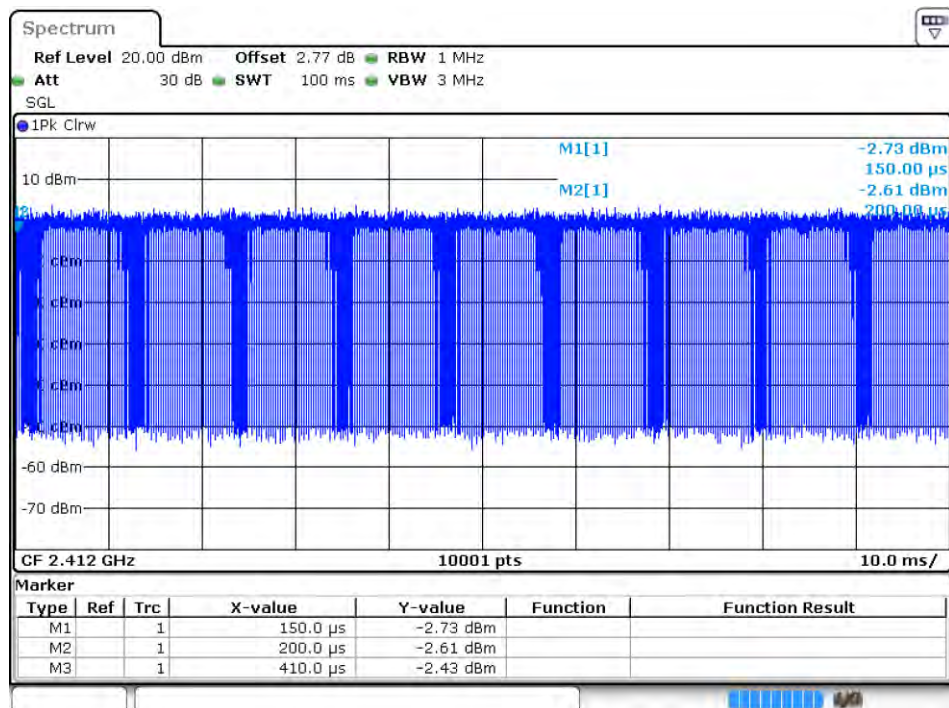
Duty Cycle NVNT b 2437MHz Ant1



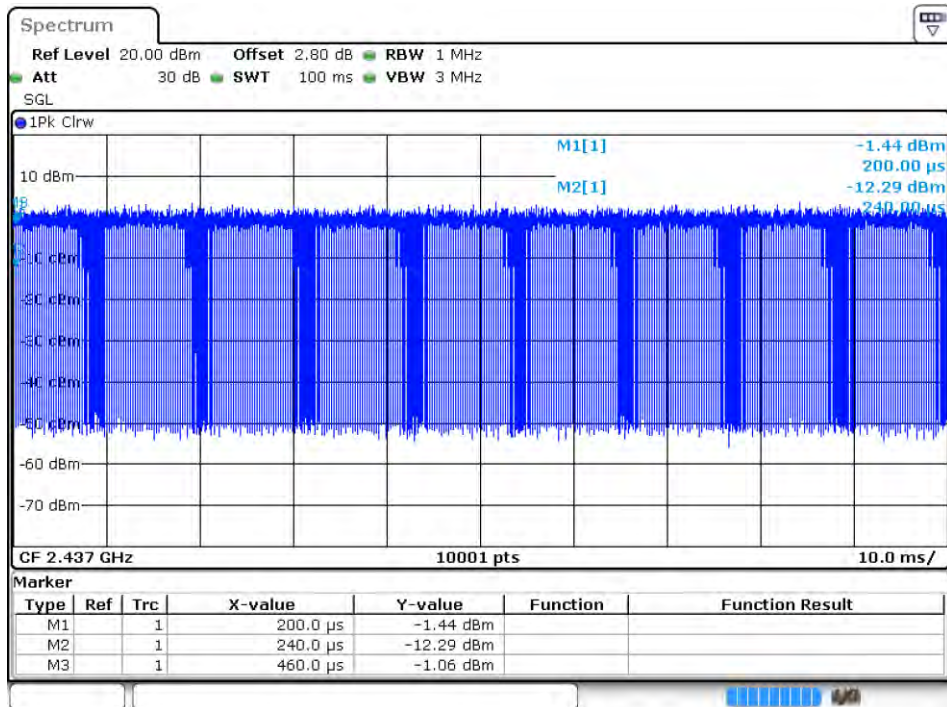
Duty Cycle NVNT b 2462MHz Ant1



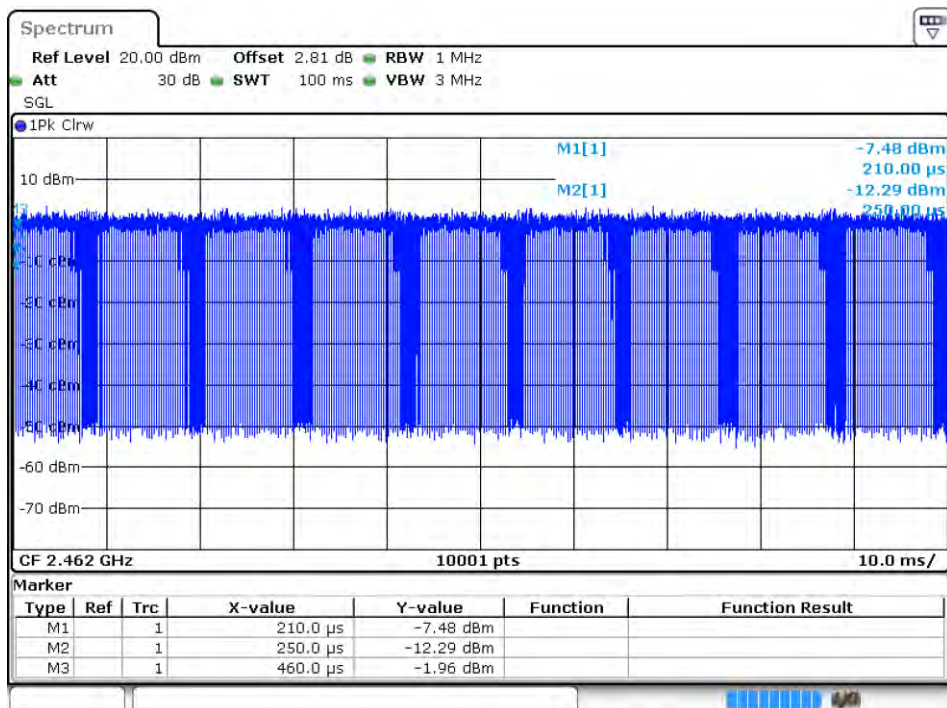
Duty Cycle NVNT g 2412MHz Ant1



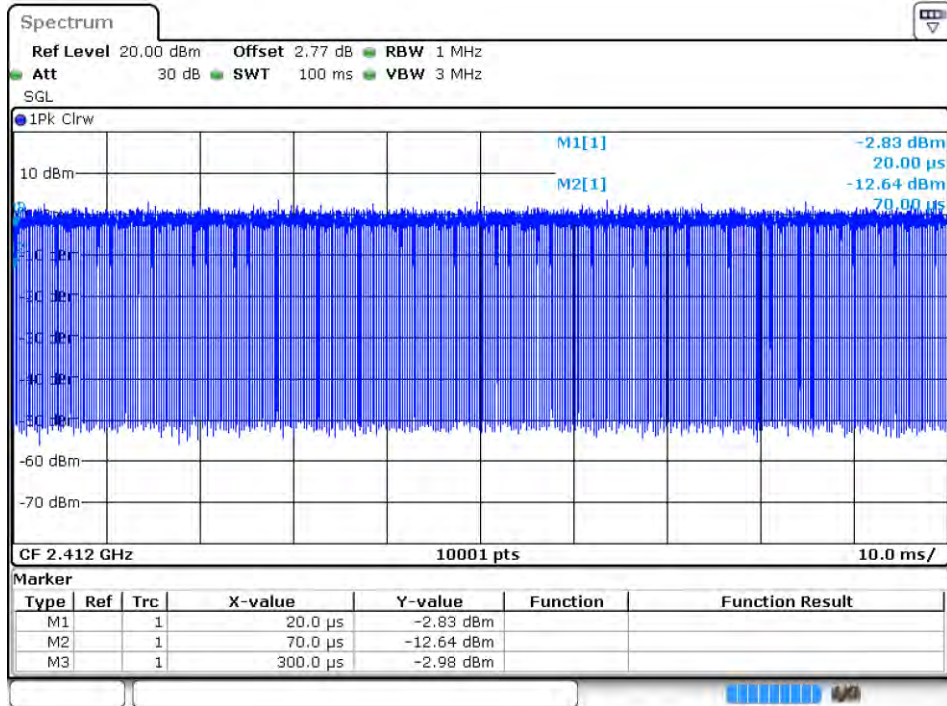
Duty Cycle NVNT g 2437MHz Ant1



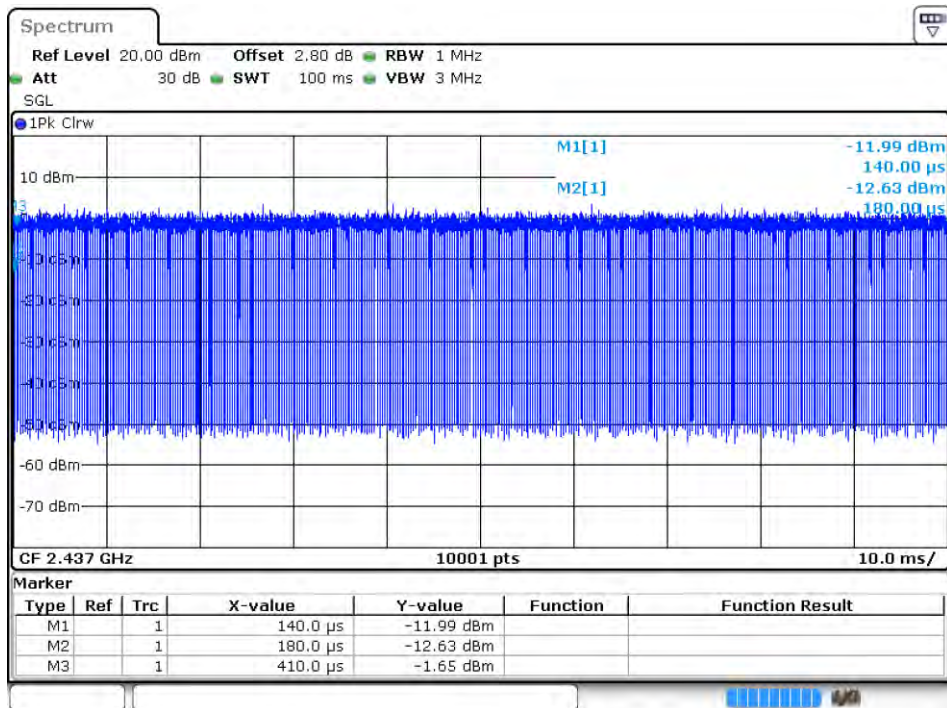
Duty Cycle NVNT g 2462MHz Ant1



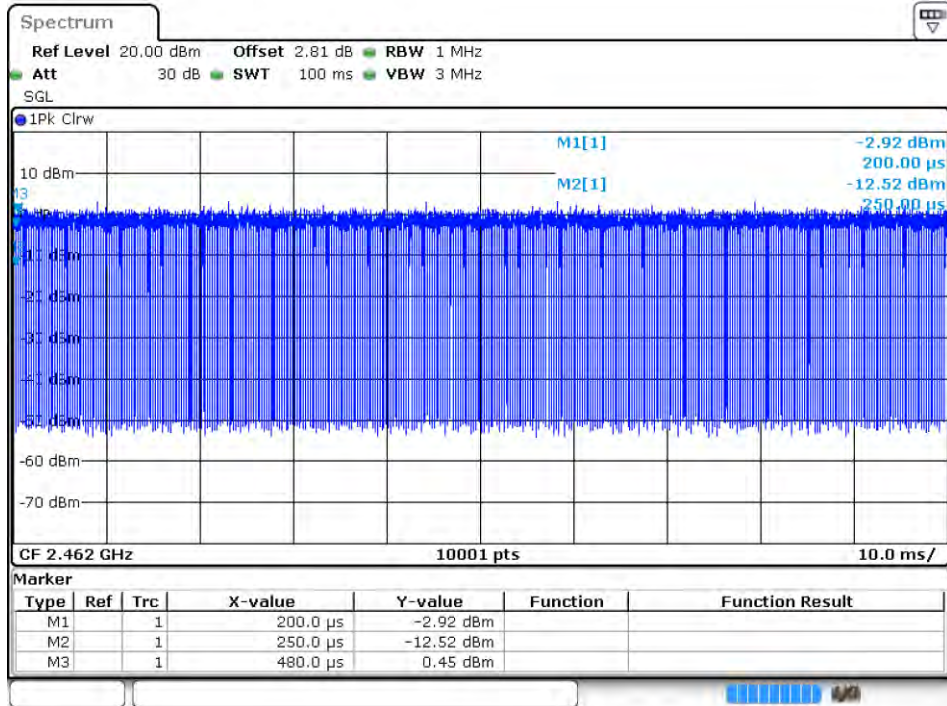
Duty Cycle NVNT n20 2412MHz Ant1



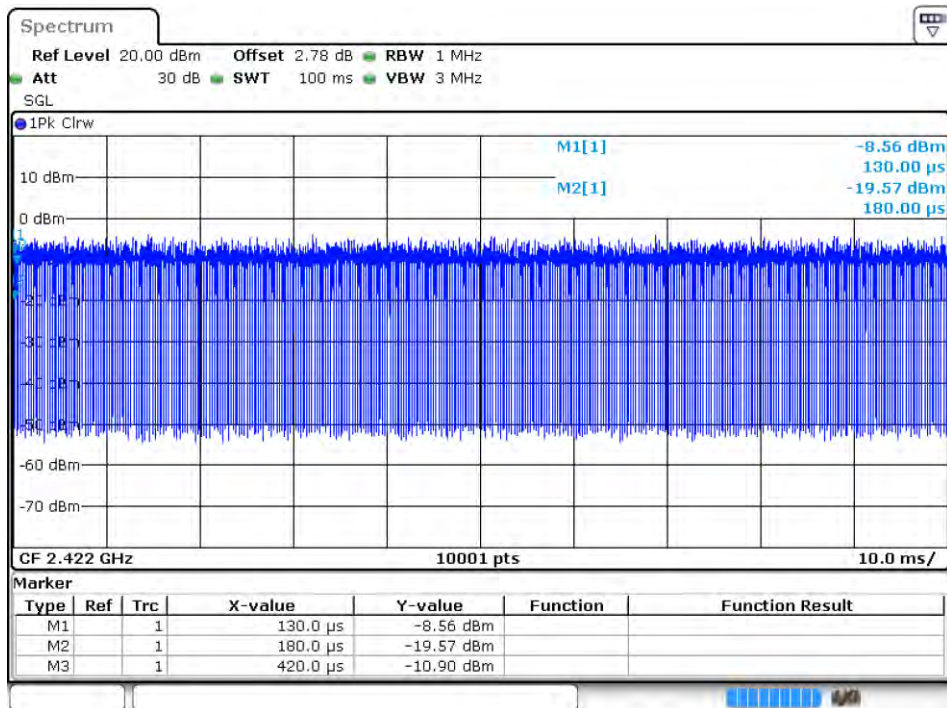
Duty Cycle NVNT n20 2437MHz Ant1



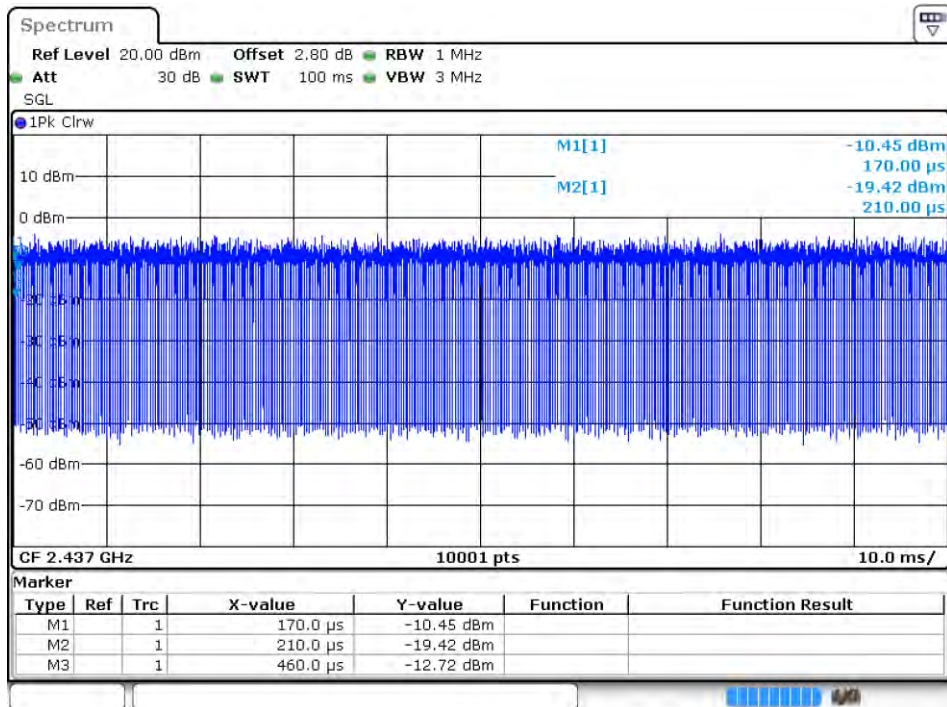
Duty Cycle NVNT n20 2462MHz Ant1



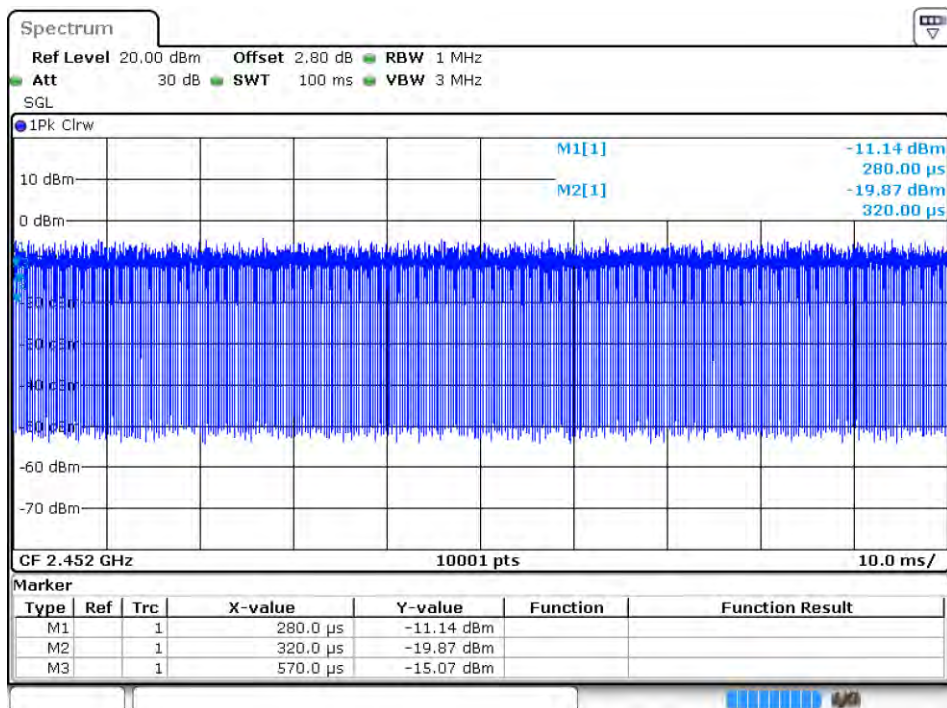
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



Maximum PEAK Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	13.36	0	13.36	30	Pass
NVNT	b	2437	Ant1	13.26	0	13.26	30	Pass
NVNT	b	2462	Ant1	13.25	0	13.25	30	Pass
NVNT	g	2412	Ant1	12.77	0	12.77	30	Pass
NVNT	g	2437	Ant1	12.73	0	12.73	30	Pass
NVNT	g	2462	Ant1	12.52	0	12.52	30	Pass
NVNT	n20	2412	Ant1	12.32	0	12.32	30	Pass
NVNT	n20	2437	Ant1	12.27	0	12.27	30	Pass
NVNT	n20	2462	Ant1	12	0	12	30	Pass
NVNT	n40	2422	Ant1	12.1	0	12.1	30	Pass
NVNT	n40	2437	Ant1	12	0	12	30	Pass
NVNT	n40	2452	Ant1	11.93	0	11.93	30	Pass

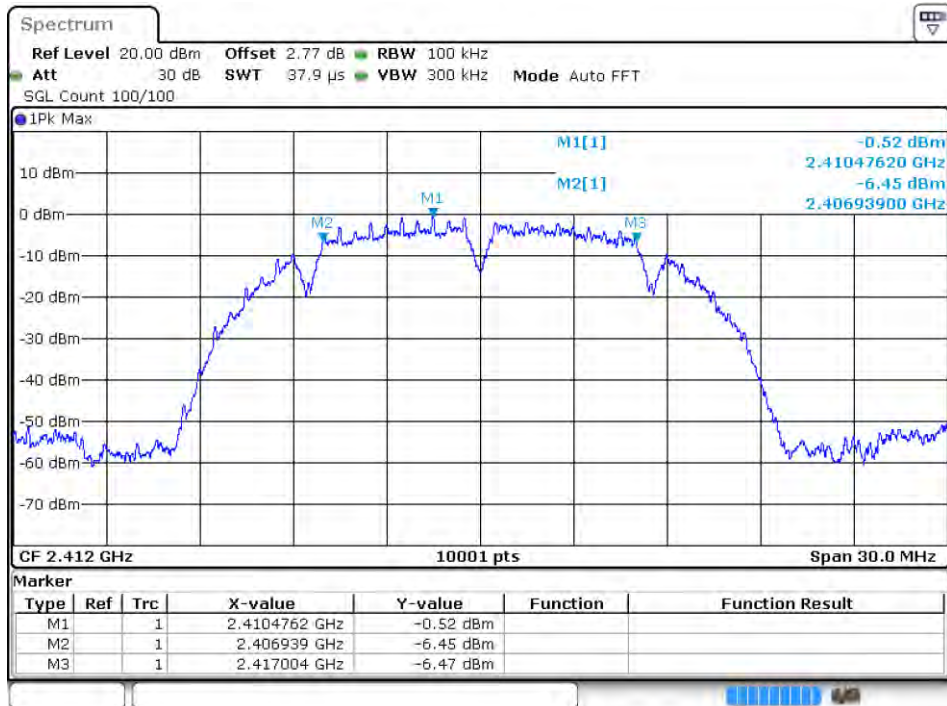


-6dB Bandwidth

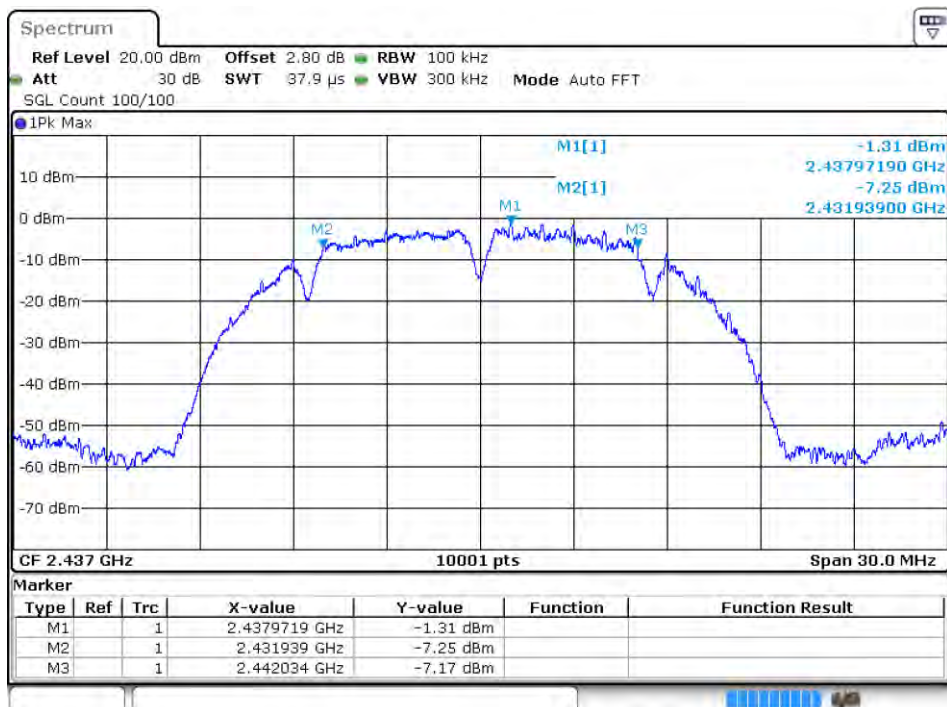
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.065	0.5	Pass
NVNT	b	2437	Ant1	10.095	0.5	Pass
NVNT	b	2462	Ant1	10.095	0.5	Pass
NVNT	g	2412	Ant1	15.108	0.5	Pass
NVNT	g	2437	Ant1	15.123	0.5	Pass
NVNT	g	2462	Ant1	15.111	0.5	Pass
NVNT	n20	2412	Ant1	15.111	0.5	Pass
NVNT	n20	2437	Ant1	15.087	0.5	Pass
NVNT	n20	2462	Ant1	15.108	0.5	Pass
NVNT	n40	2422	Ant1	35.076	0.5	Pass
NVNT	n40	2437	Ant1	35.088	0.5	Pass
NVNT	n40	2452	Ant1	35.118	0.5	Pass

Test Graphs

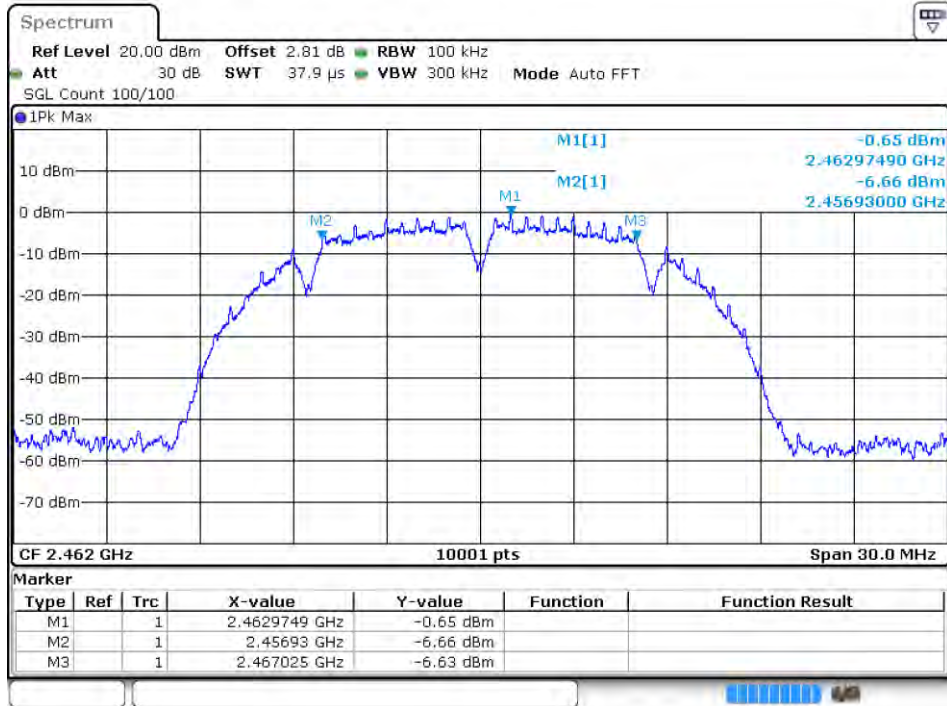
-6dB Bandwidth NVNT b 2412MHz Ant1



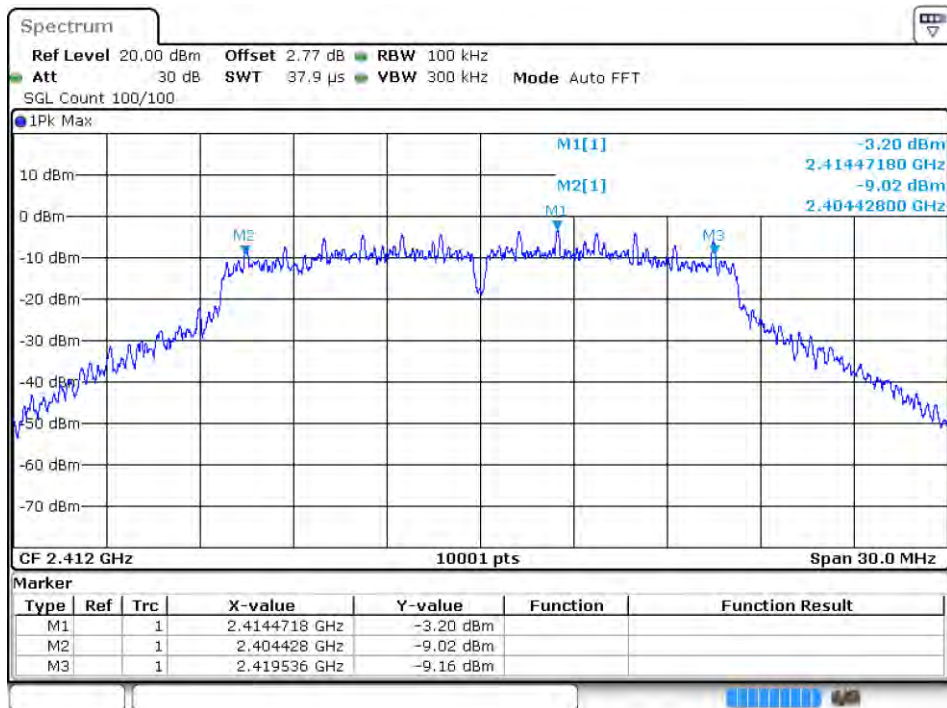
-6dB Bandwidth NVNT b 2437MHz Ant1



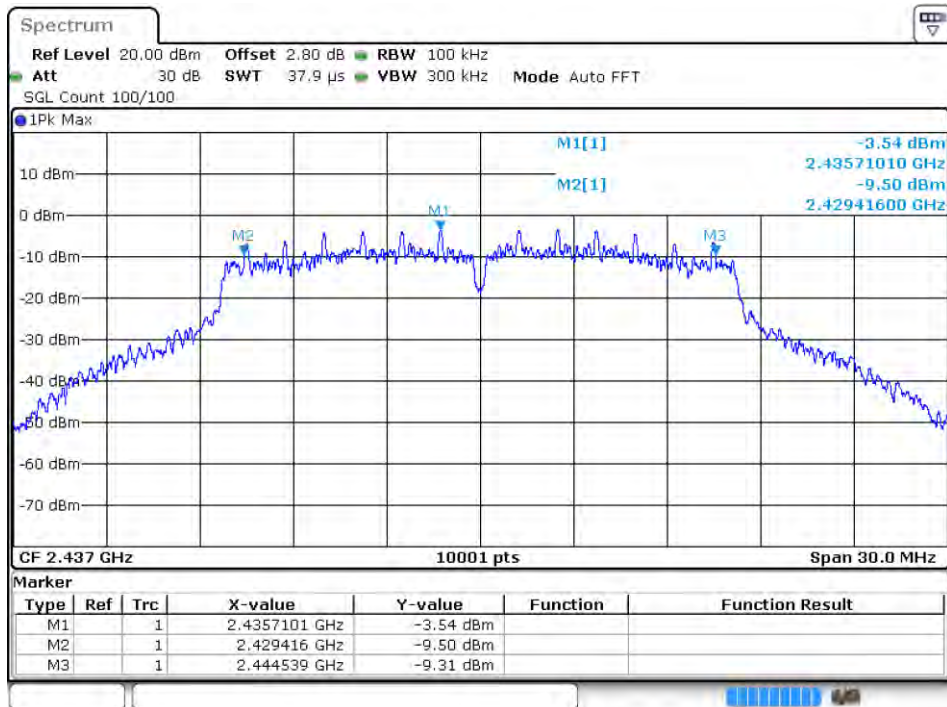
-6dB Bandwidth NVNT b 2462MHz Ant1



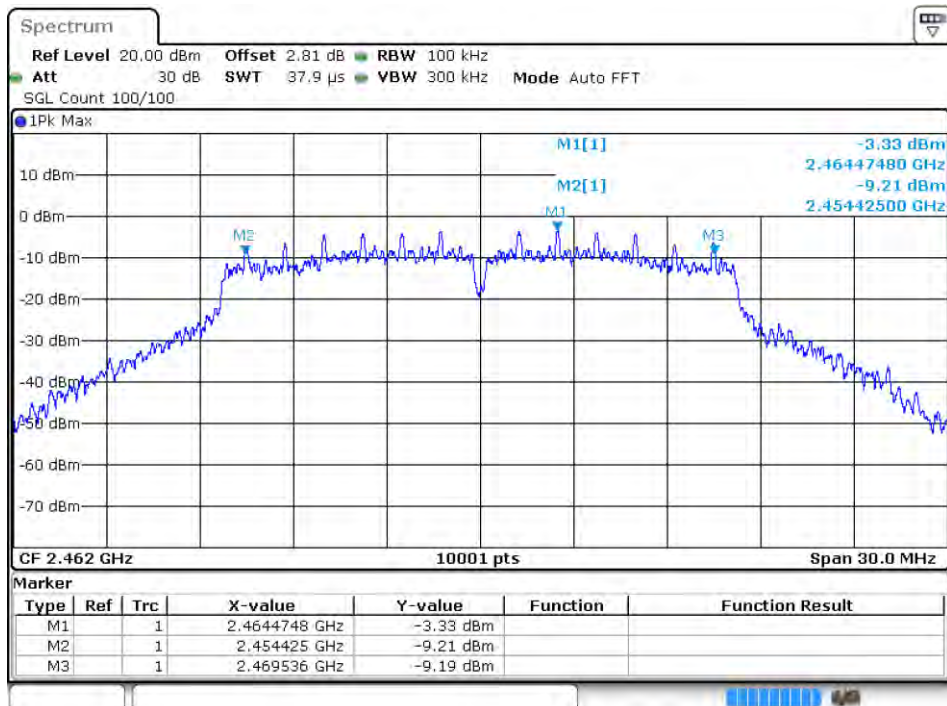
-6dB Bandwidth NVNT g 2412MHz Ant1



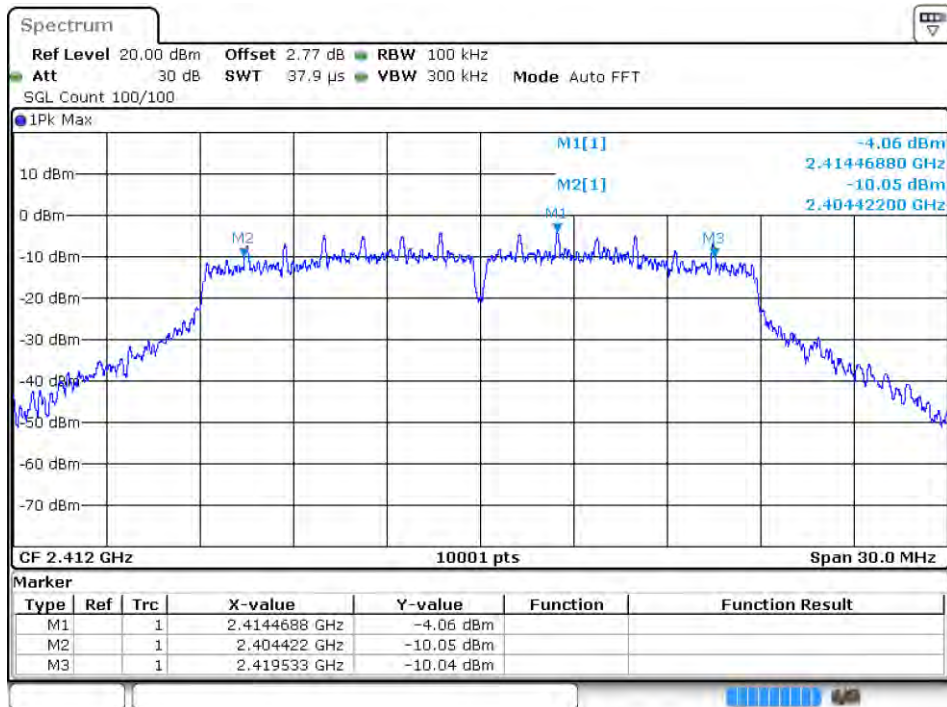
-6dB Bandwidth NVNT g 2437MHz Ant1



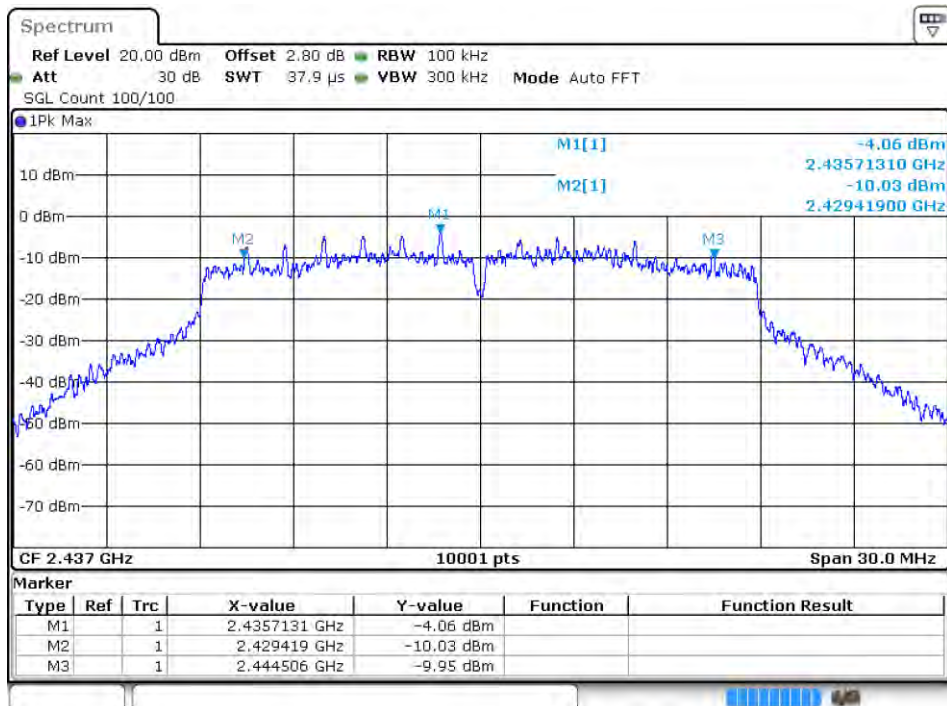
-6dB Bandwidth NVNT g 2462MHz Ant1



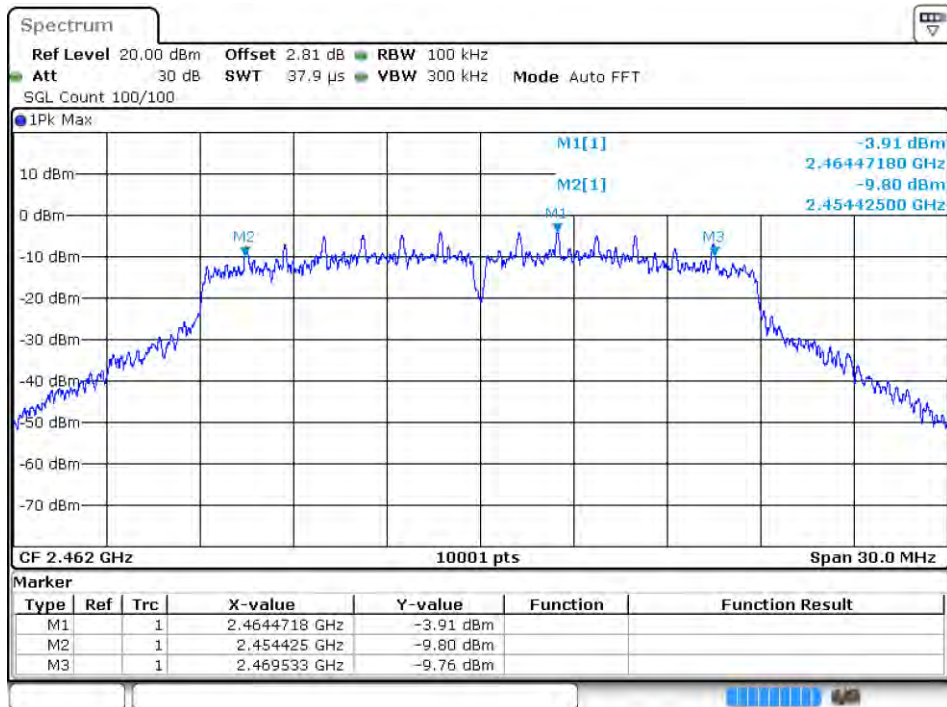
-6dB Bandwidth NVNT n20 2412MHz Ant1



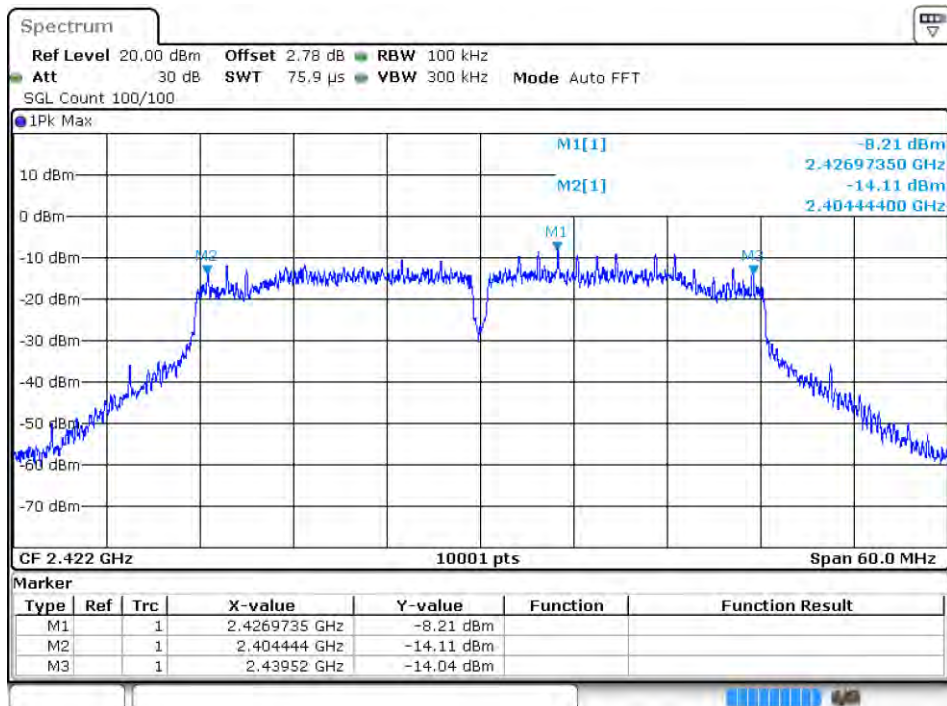
-6dB Bandwidth NVNT n20 2437MHz Ant1



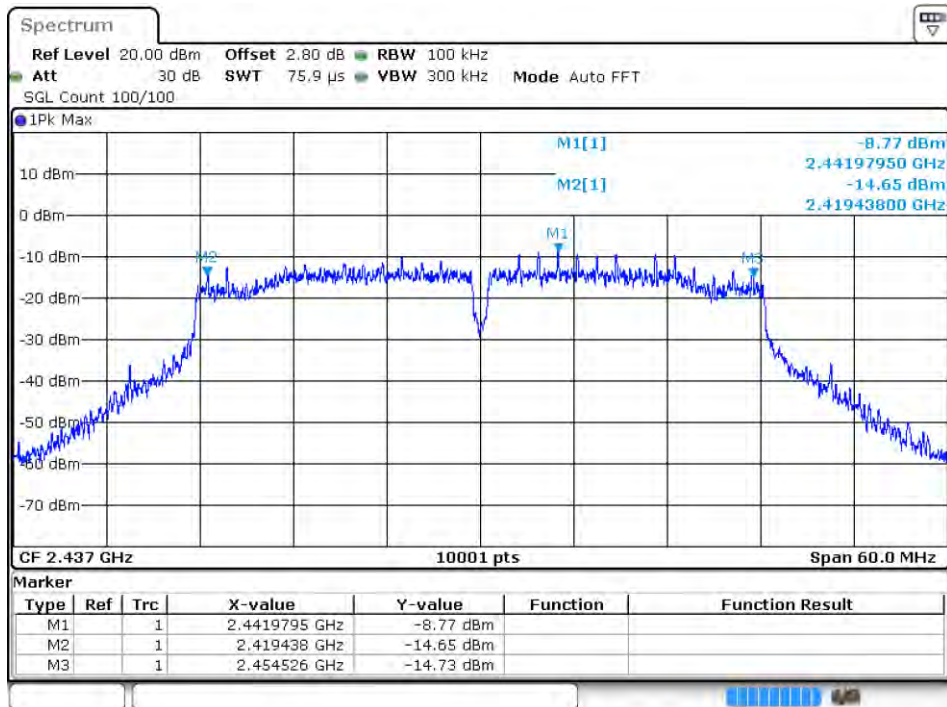
-6dB Bandwidth NVNT n20 2462MHz Ant1



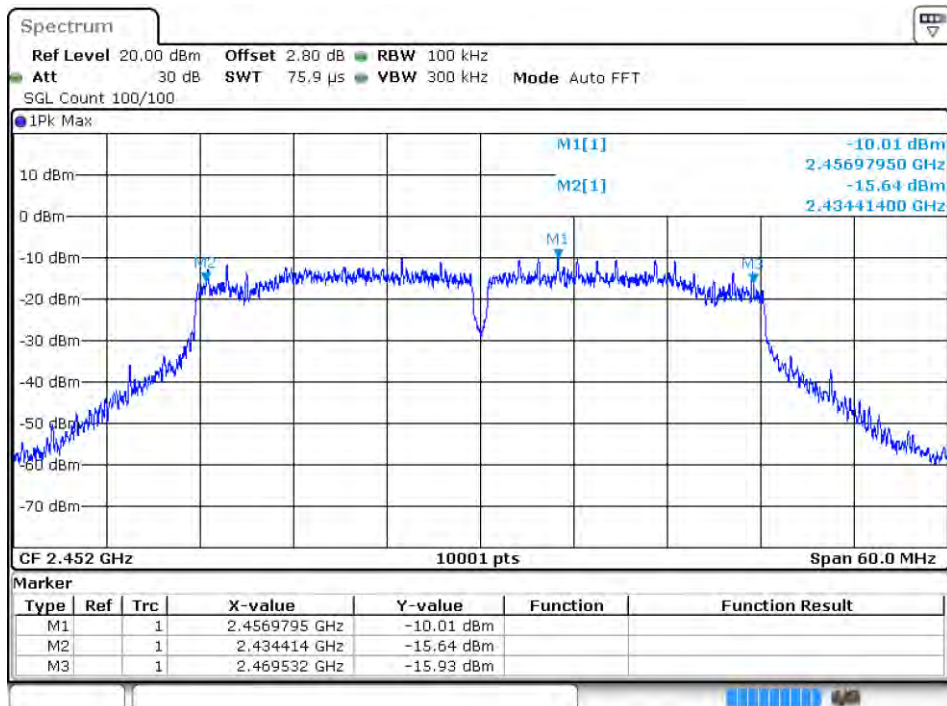
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1

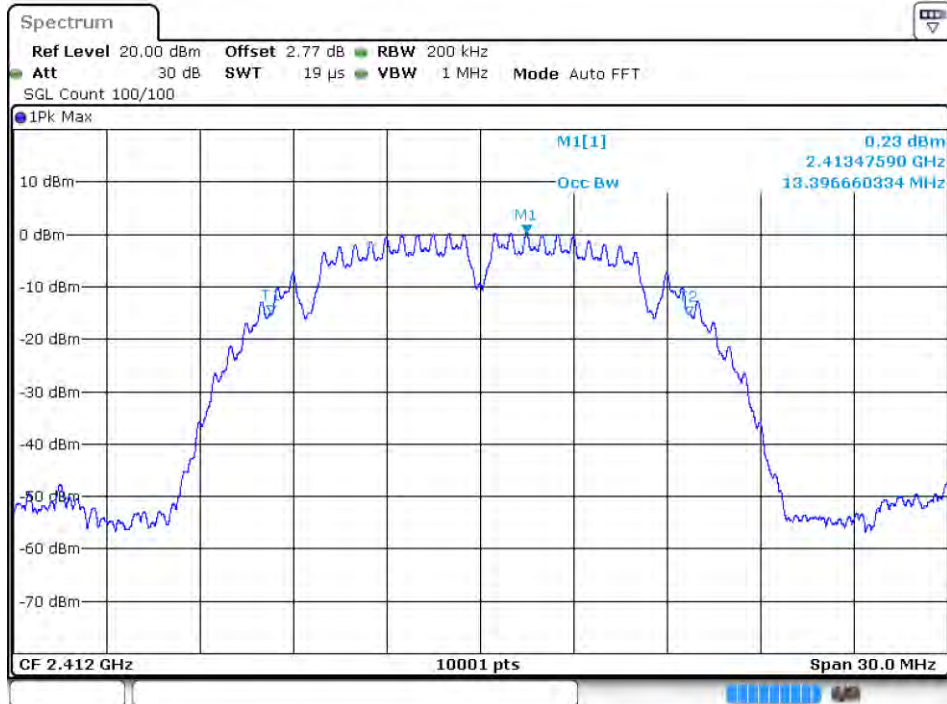


Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.397
NVNT	b	2437	Ant1	13.322
NVNT	b	2462	Ant1	13.346
NVNT	g	2412	Ant1	16.441
NVNT	g	2437	Ant1	16.396
NVNT	g	2462	Ant1	16.423
NVNT	n20	2412	Ant1	17.644
NVNT	n20	2437	Ant1	17.518
NVNT	n20	2462	Ant1	17.563
NVNT	n40	2422	Ant1	36.08
NVNT	n40	2437	Ant1	35.894
NVNT	n40	2452	Ant1	36.02

Test Graphs

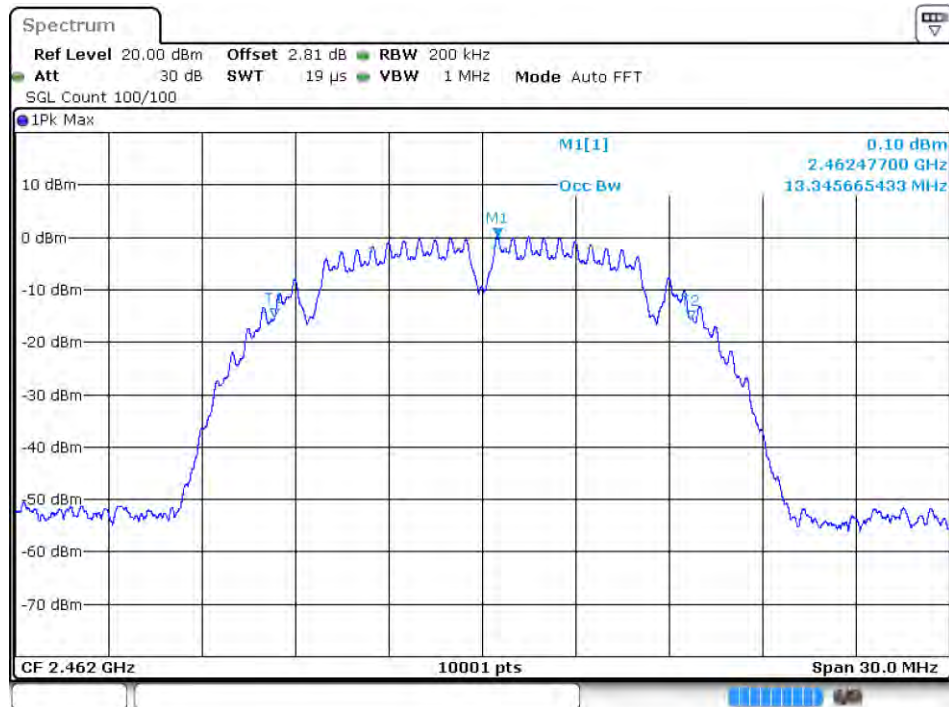
OBW NVNT b 2412MHz Ant1



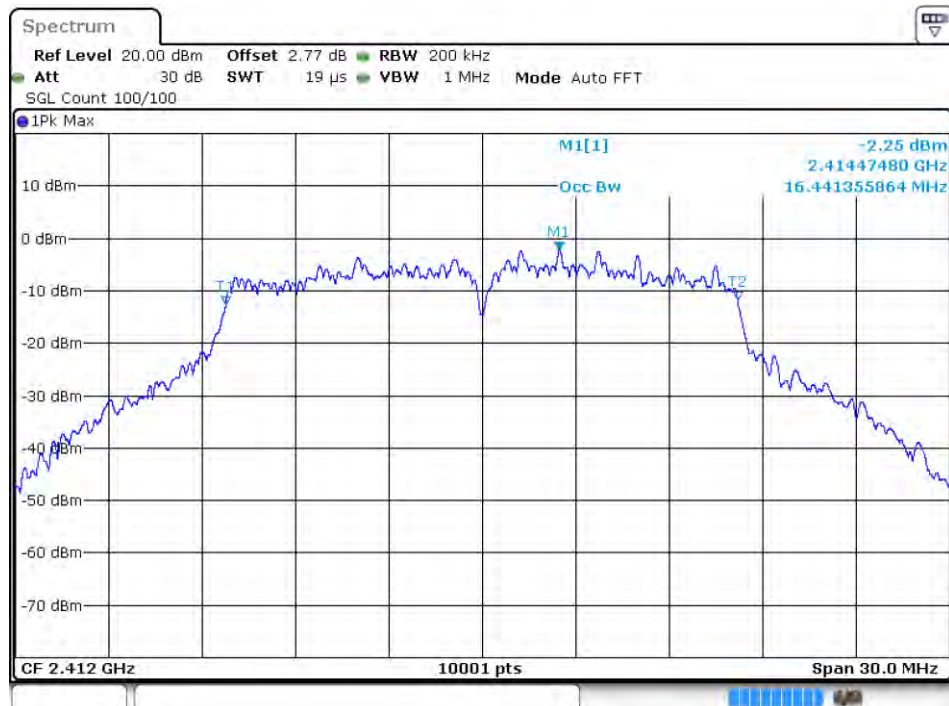
OBW NVNT b 2437MHz Ant1



OBW NVNT b 2462MHz Ant1



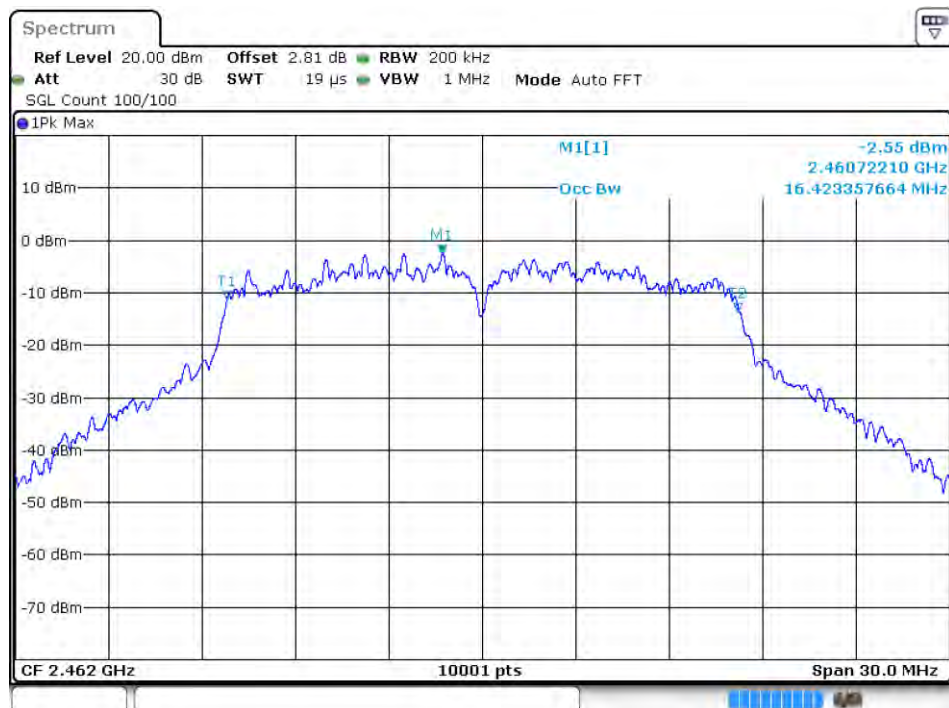
OBW NVNT g 2412MHz Ant1



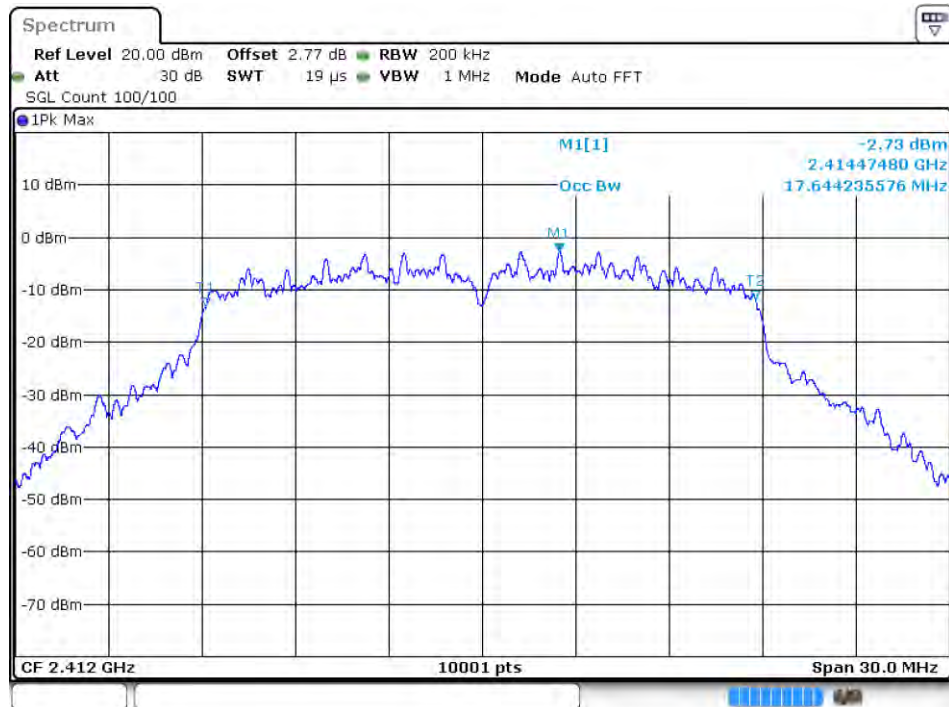
OBW NVNT g 2437MHz Ant1



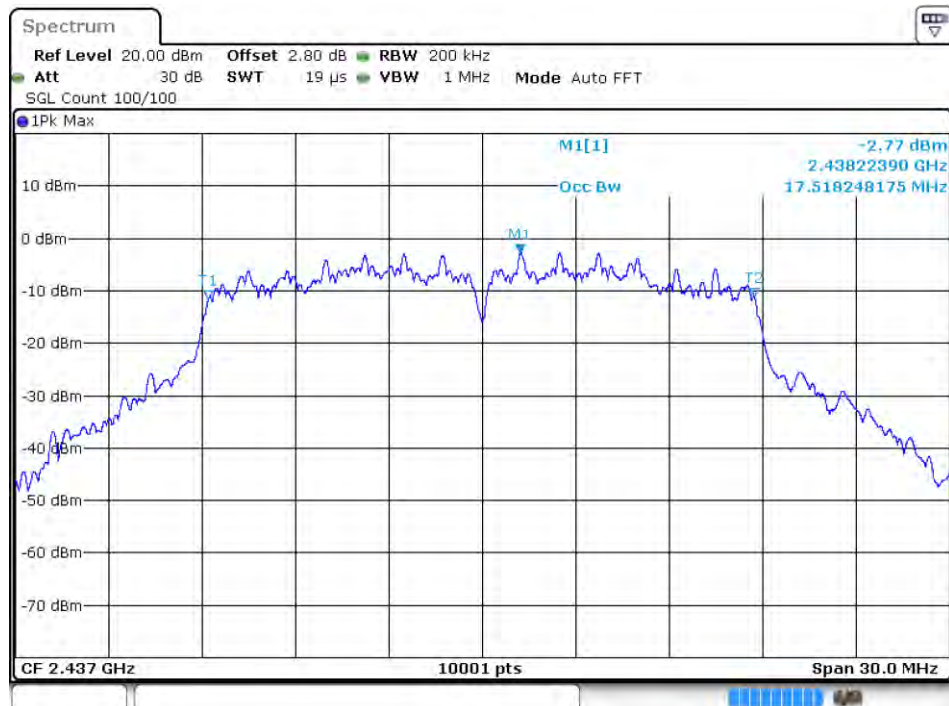
OBW NVNT g 2462MHz Ant1



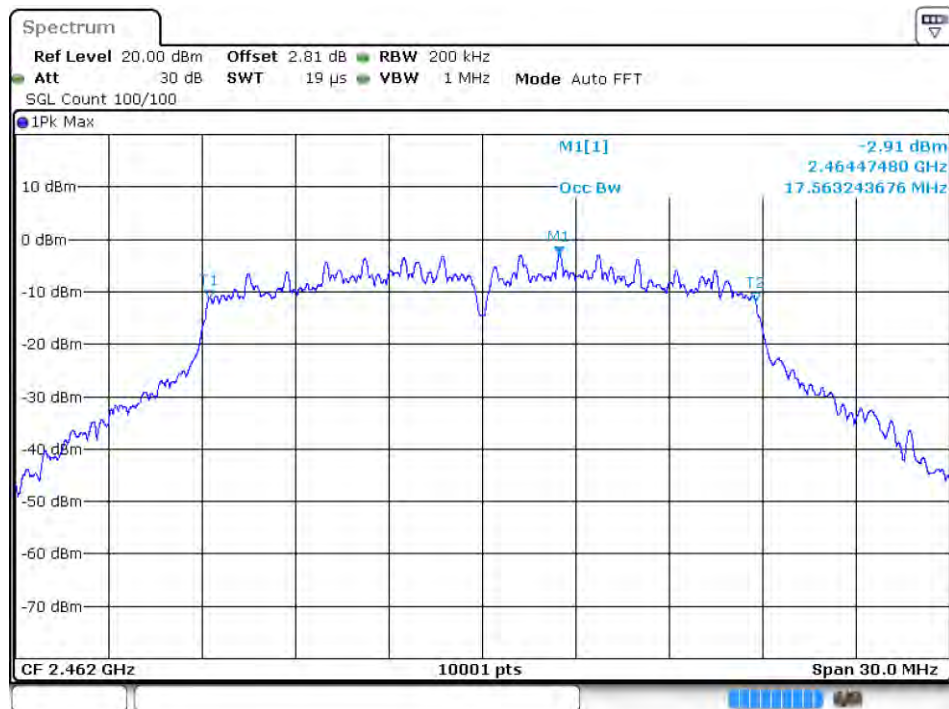
OBW NVNT n20 2412MHz Ant1



OBW NVNT n20 2437MHz Ant1



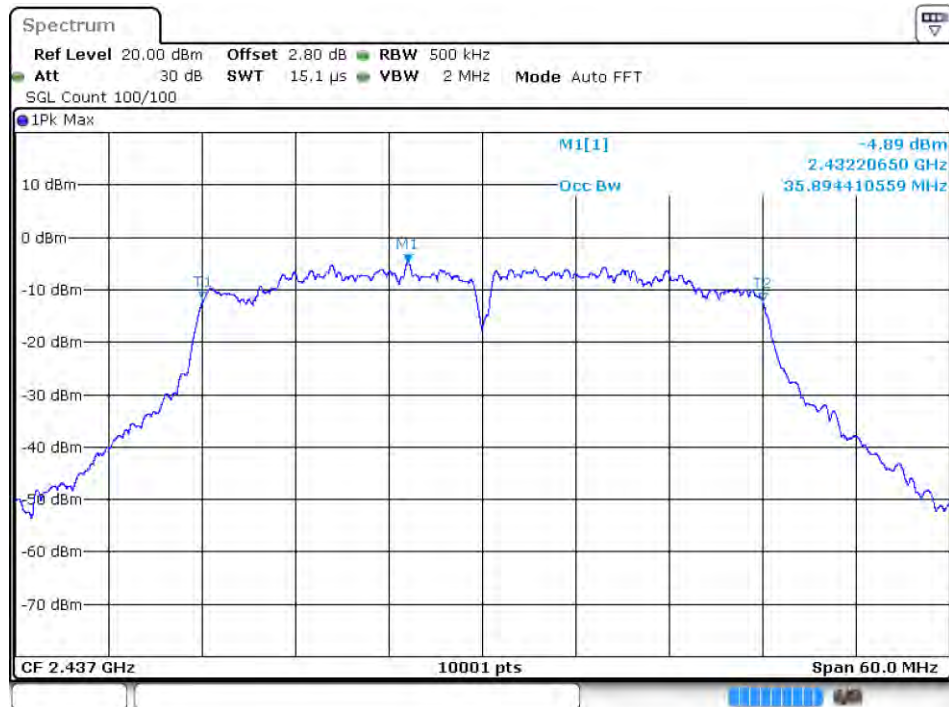
OBW NVNT n20 2462MHz Ant1



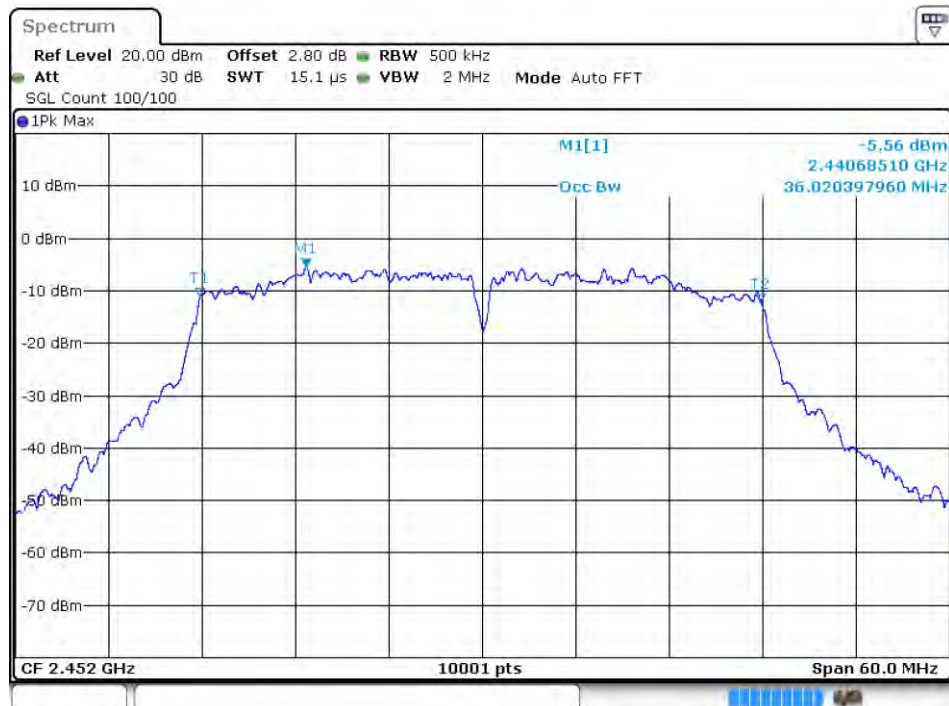
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



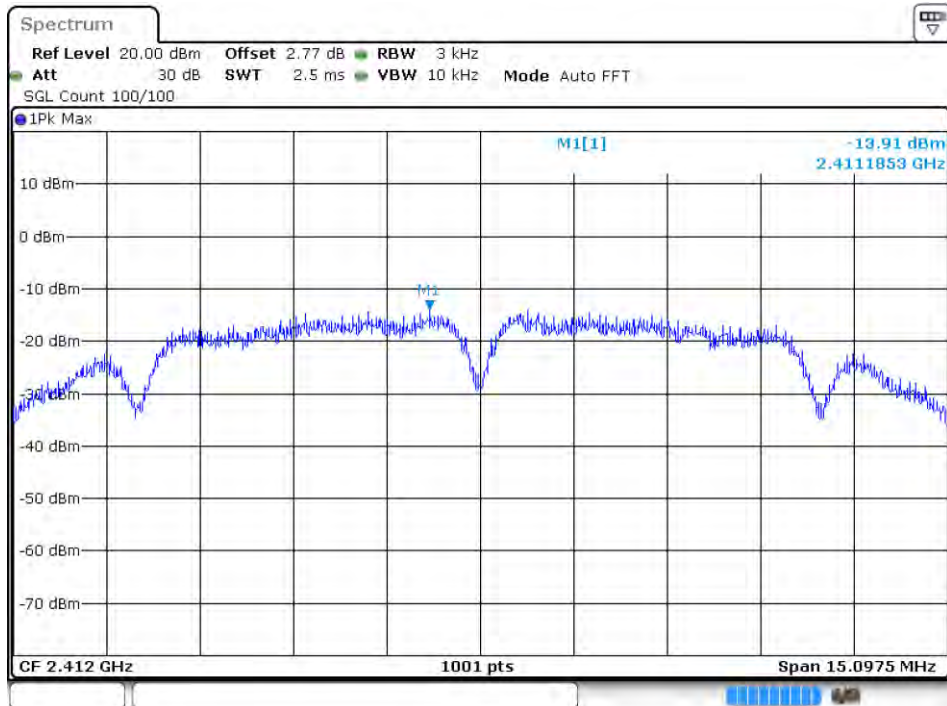


Maximum Power Spectral Density Level

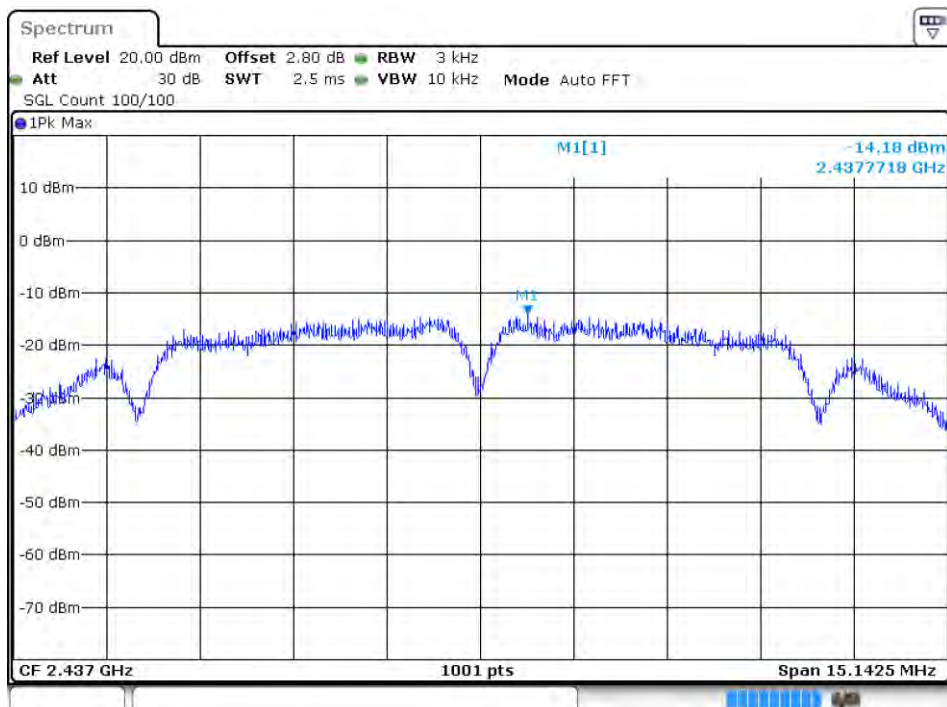
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-13.91	0	-13.91	8	Pass
NVNT	b	2437	Ant1	-14.18	0	-14.18	8	Pass
NVNT	b	2462	Ant1	-14.27	0	-14.27	8	Pass
NVNT	g	2412	Ant1	-18.17	0	-18.17	8	Pass
NVNT	g	2437	Ant1	-17.68	0	-17.68	8	Pass
NVNT	g	2462	Ant1	-17.96	0	-17.96	8	Pass
NVNT	n20	2412	Ant1	-18.55	0	-18.55	8	Pass
NVNT	n20	2437	Ant1	-17.55	0	-17.55	8	Pass
NVNT	n20	2462	Ant1	-18.11	0	-18.11	8	Pass
NVNT	n40	2422	Ant1	-23.07	0	-23.07	8	Pass
NVNT	n40	2437	Ant1	-22.06	0	-22.06	8	Pass
NVNT	n40	2452	Ant1	-22.4	0	-22.4	8	Pass

Test Graphs

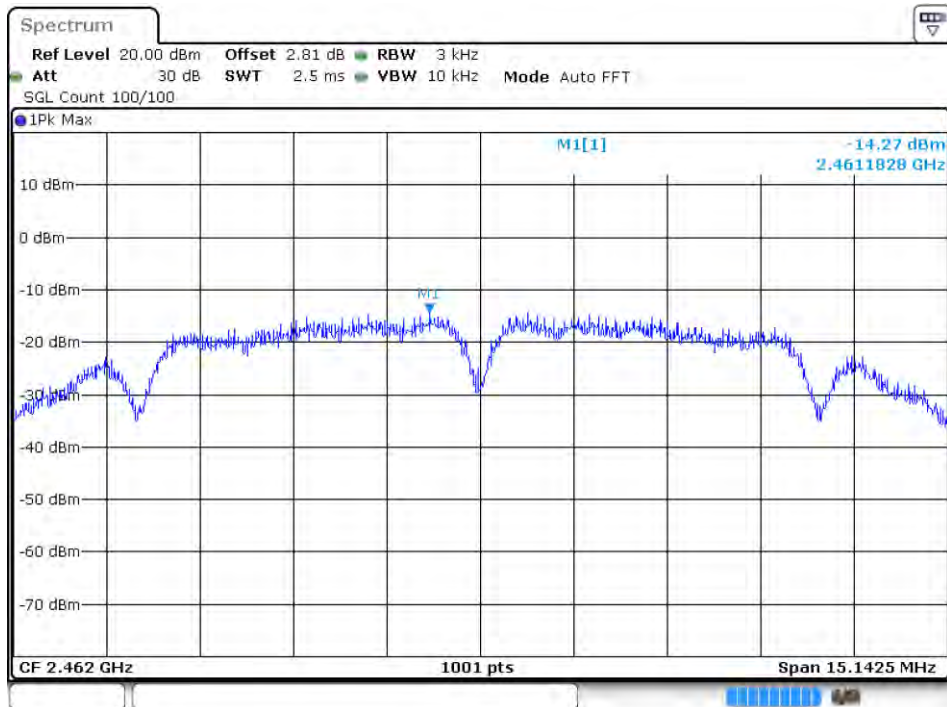
PSD NVNT b 2412MHz Ant1



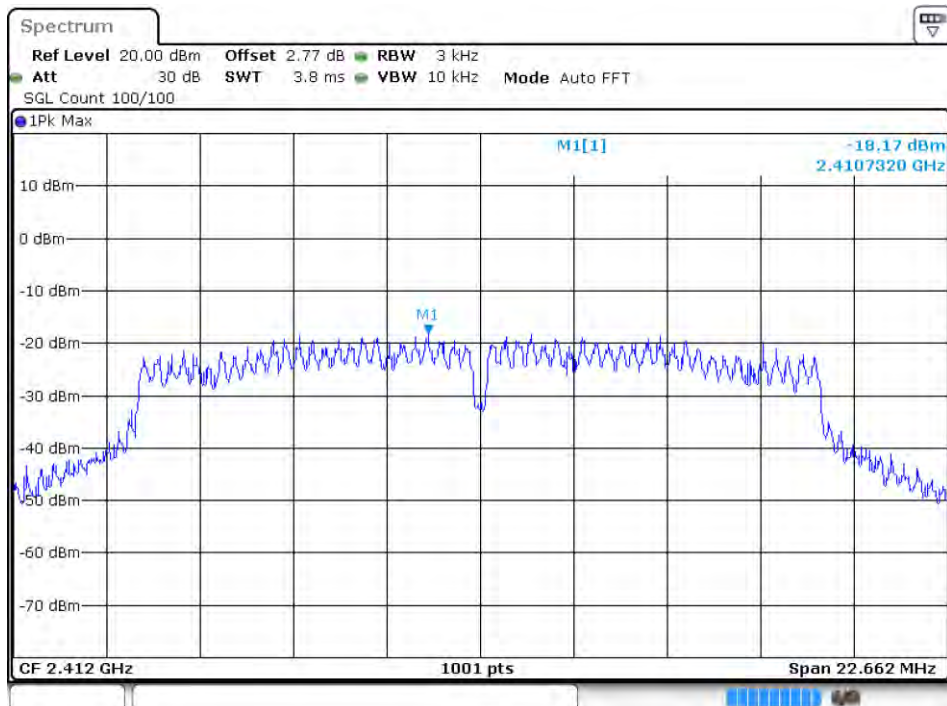
PSD NVNT b 2437MHz Ant1



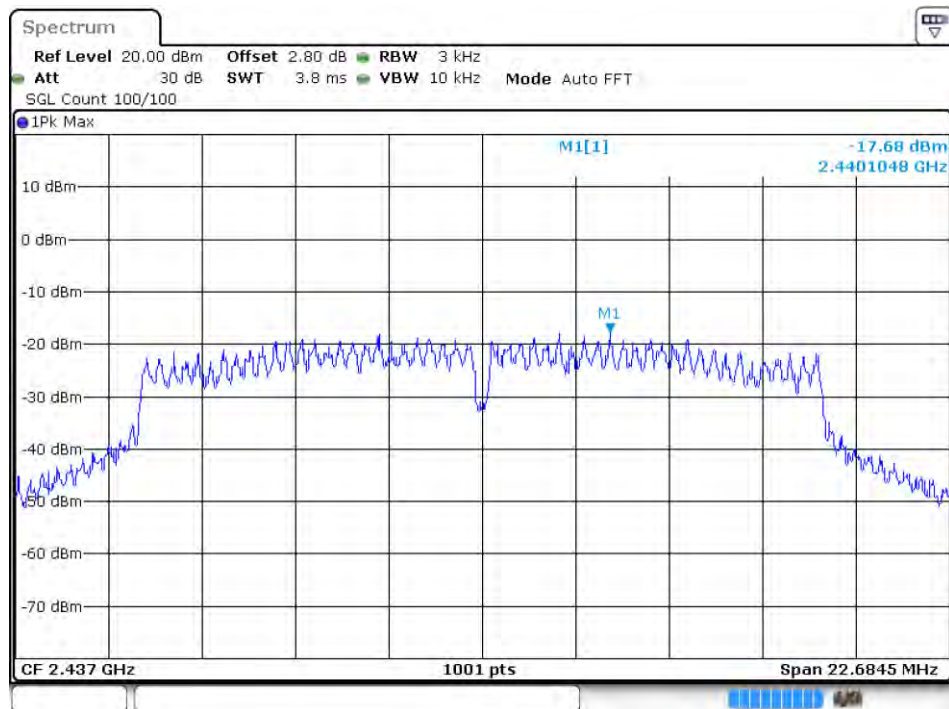
PSD NVNT b 2462MHz Ant1



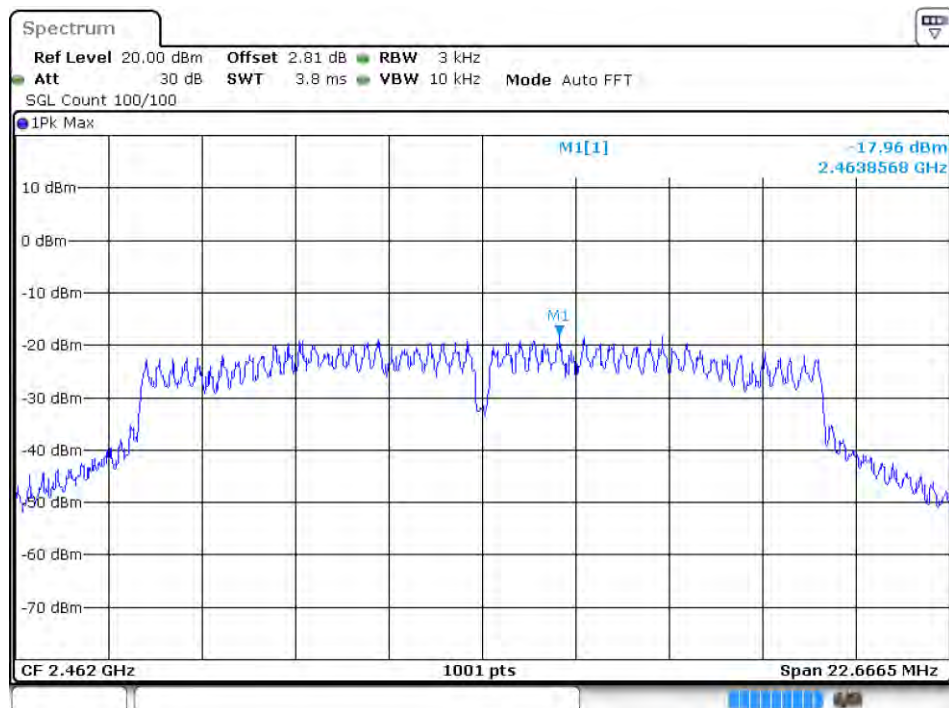
PSD NVNT g 2412MHz Ant1

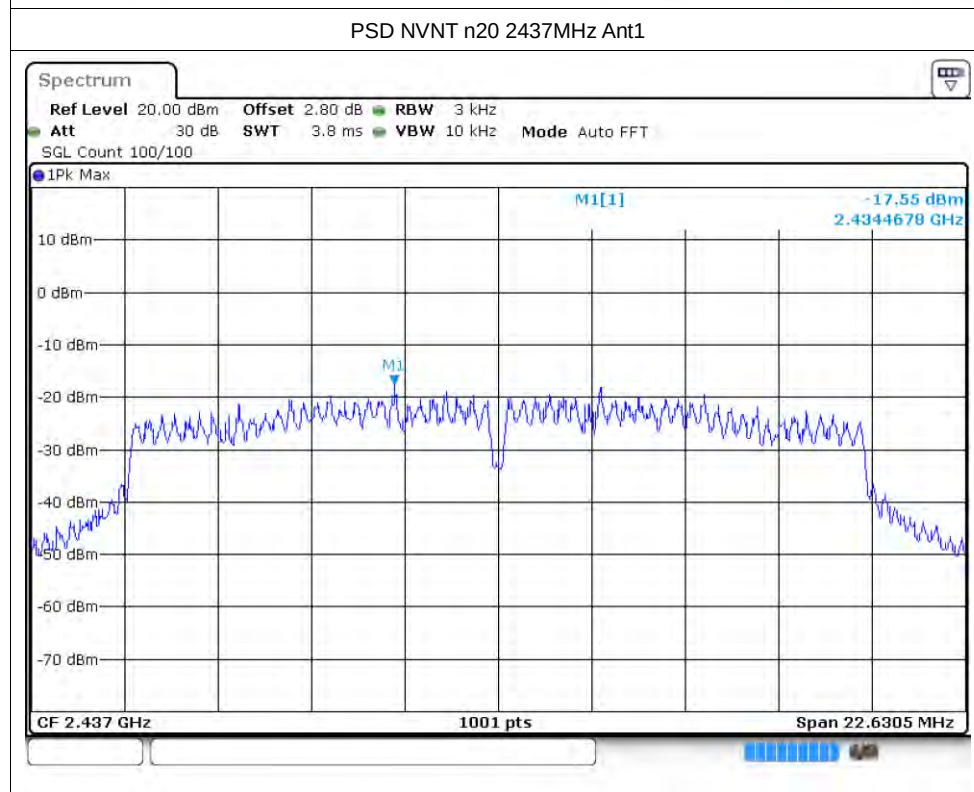
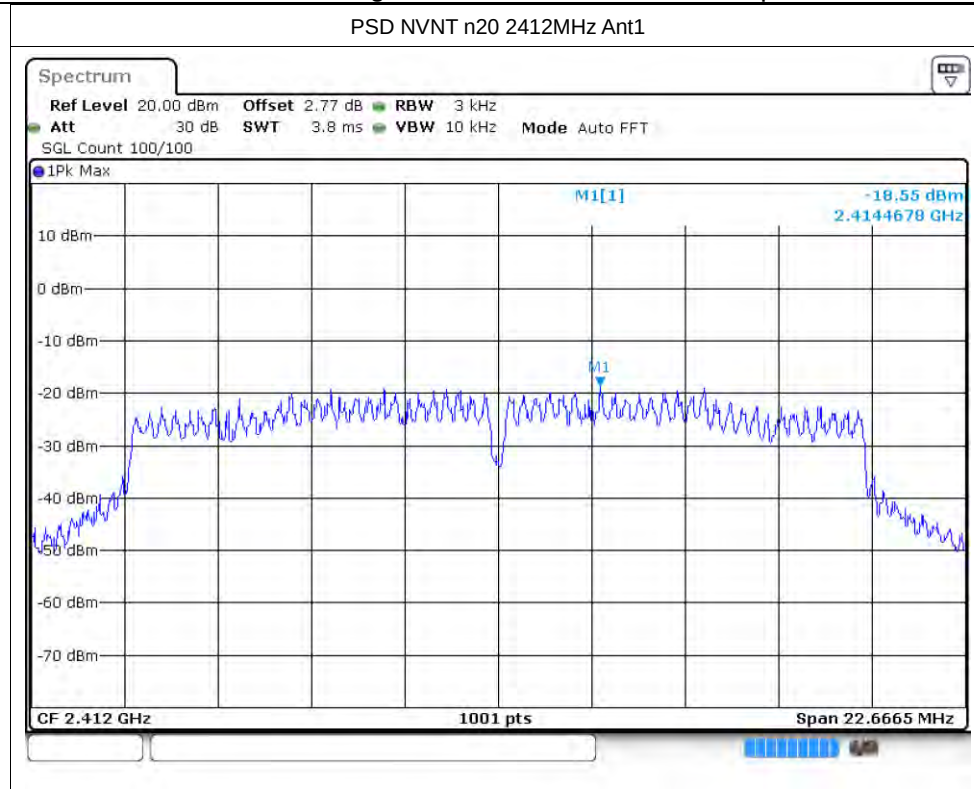


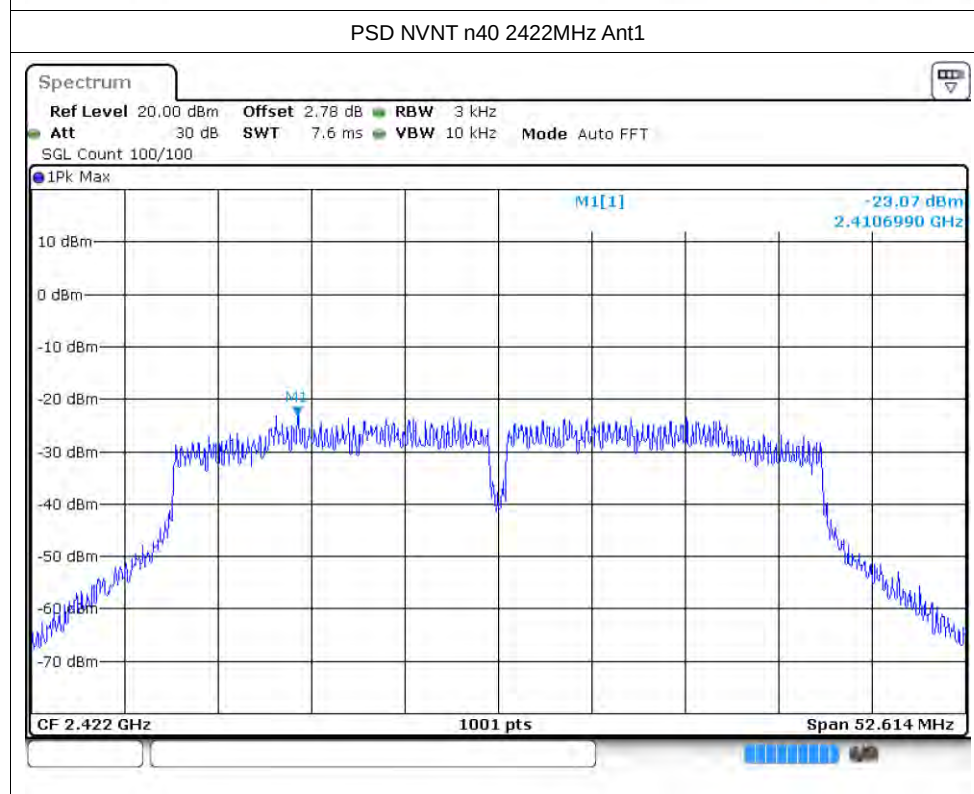
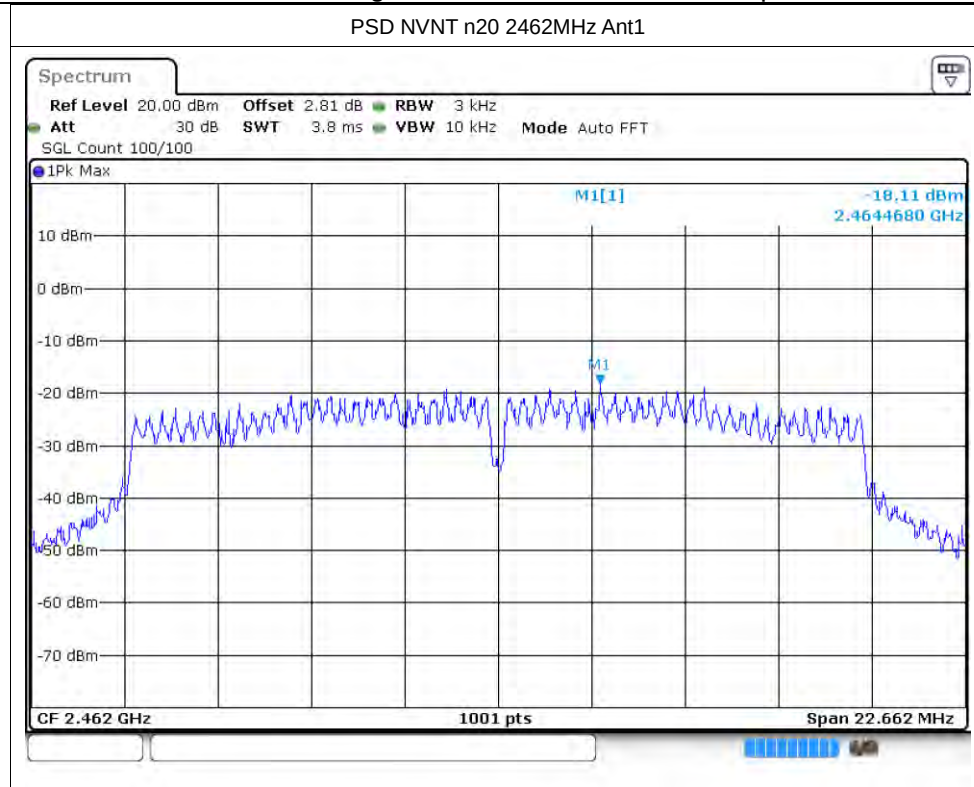
PSD NVNT g 2437MHz Ant1

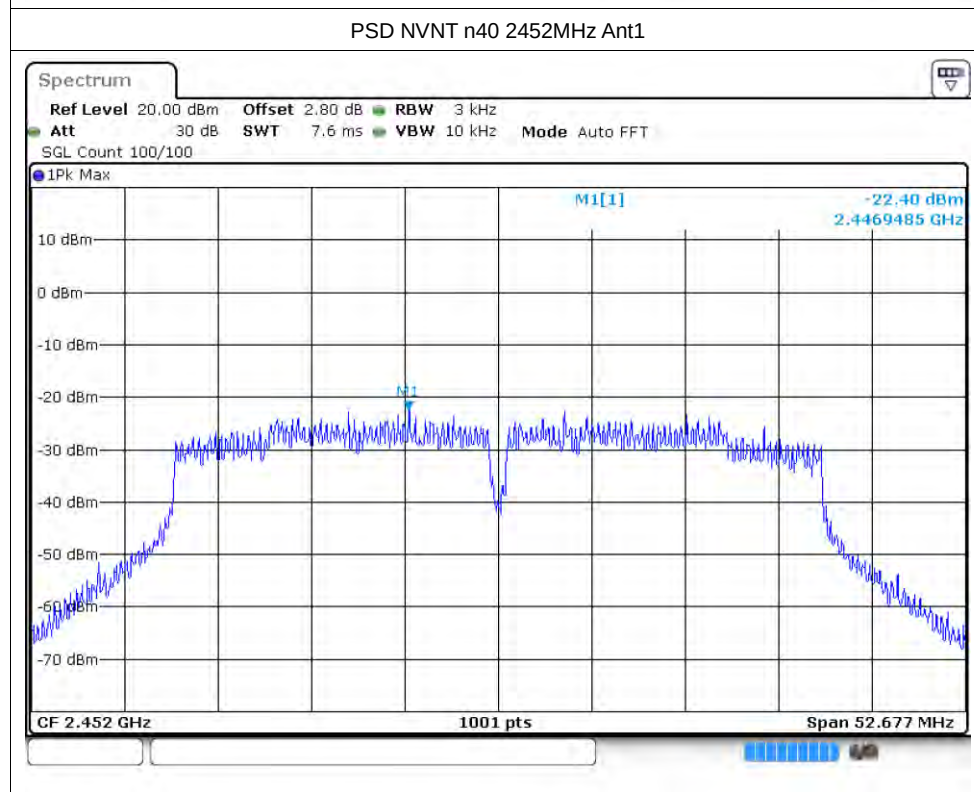
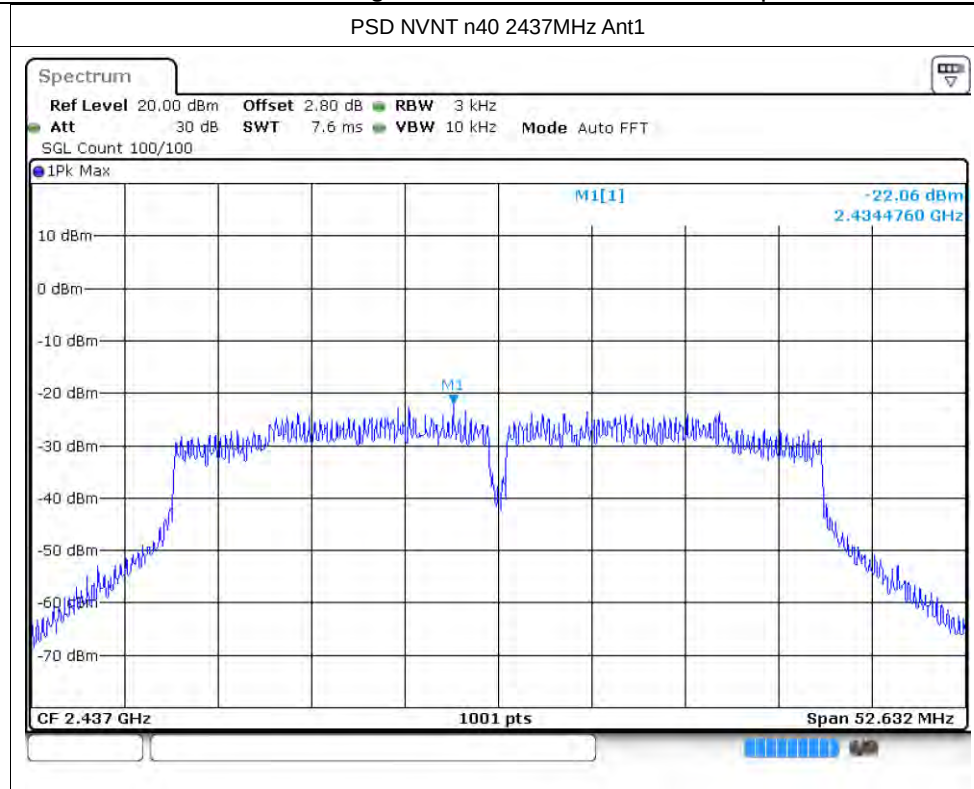


PSD NVNT g 2462MHz Ant1











Band Edge

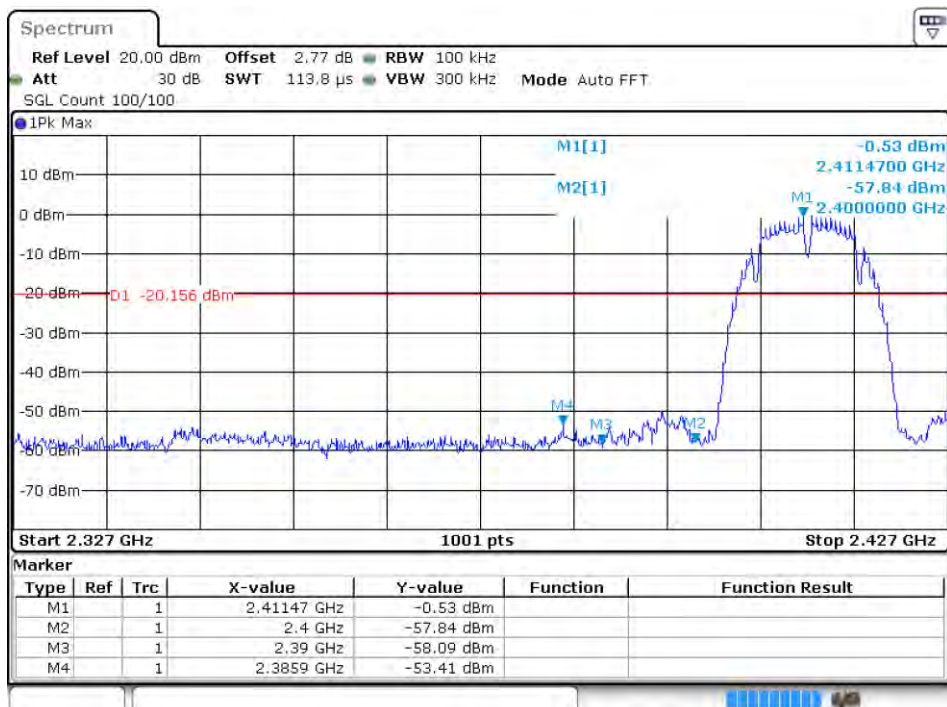
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-53.25	-20	Pass
NVNT	b	2462	Ant1	-54.28	-20	Pass
NVNT	g	2412	Ant1	-49.7	-20	Pass
NVNT	g	2462	Ant1	-50.86	-20	Pass
NVNT	n20	2412	Ant1	-51.02	-20	Pass
NVNT	n20	2462	Ant1	-52.14	-20	Pass
NVNT	n40	2422	Ant1	-46.67	-20	Pass
NVNT	n40	2452	Ant1	-47.06	-20	Pass

Test Graphs

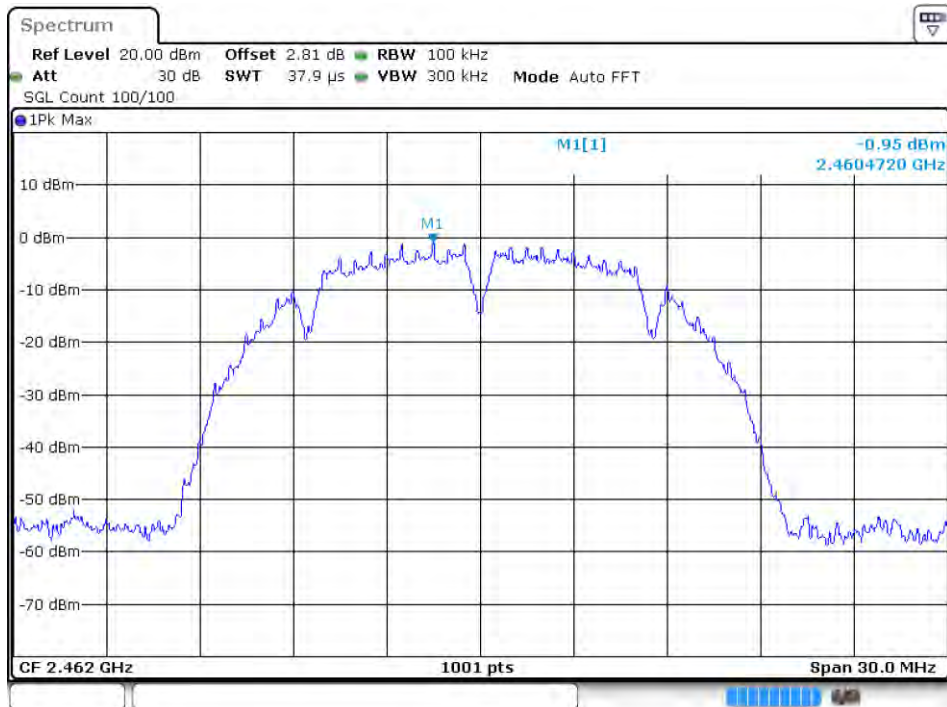
Band Edge NVNT b 2412MHz Ant1 Ref



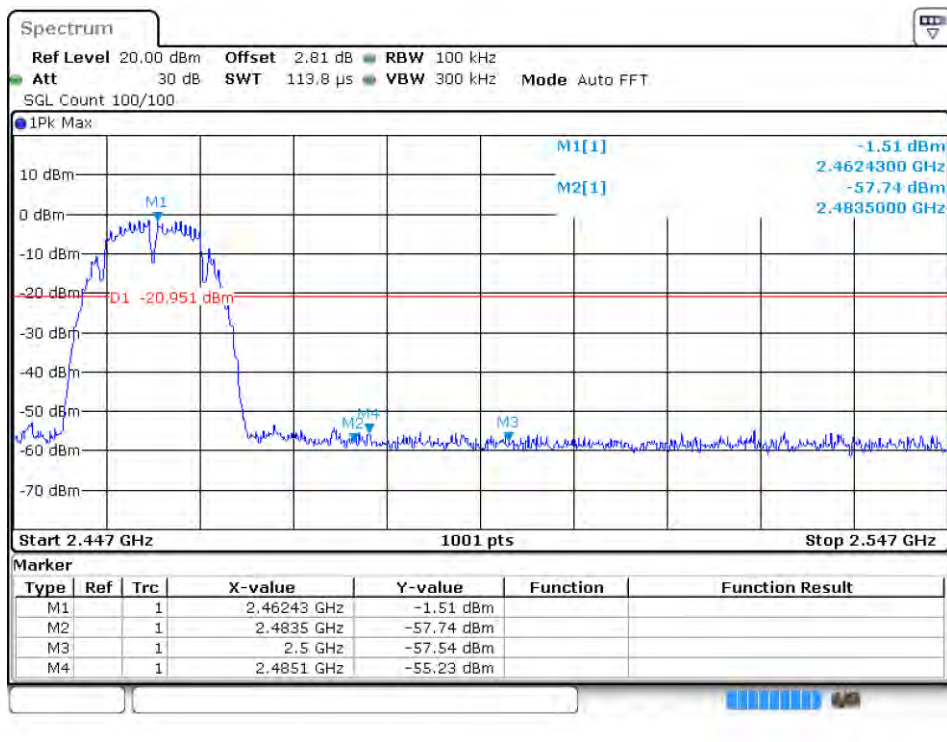
Band Edge NVNT b 2412MHz Ant1 Emission



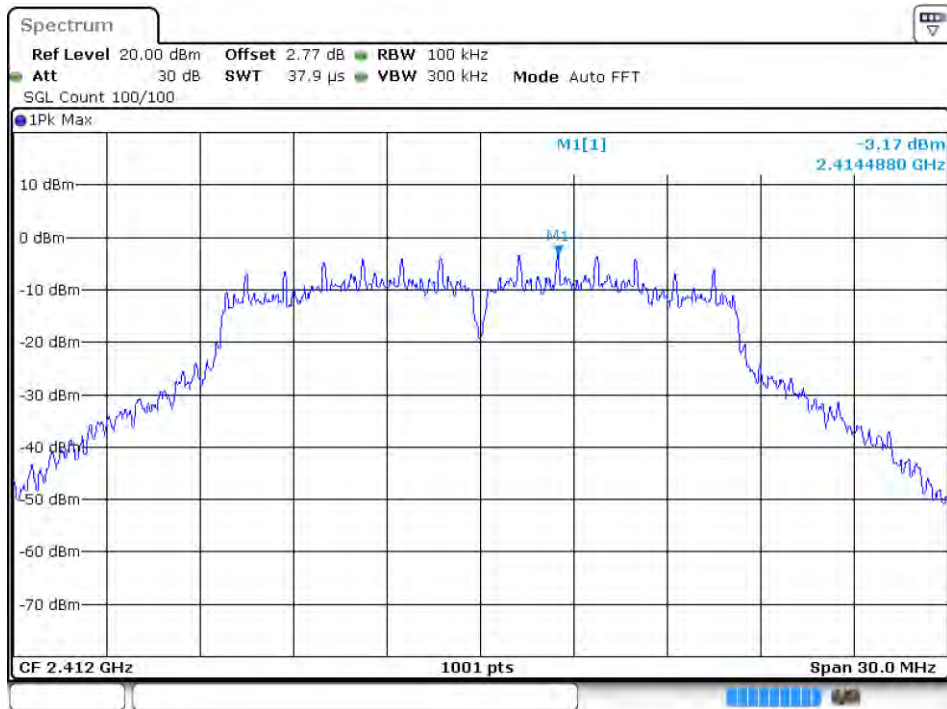
Band Edge NVNT b 2462MHz Ant1 Ref



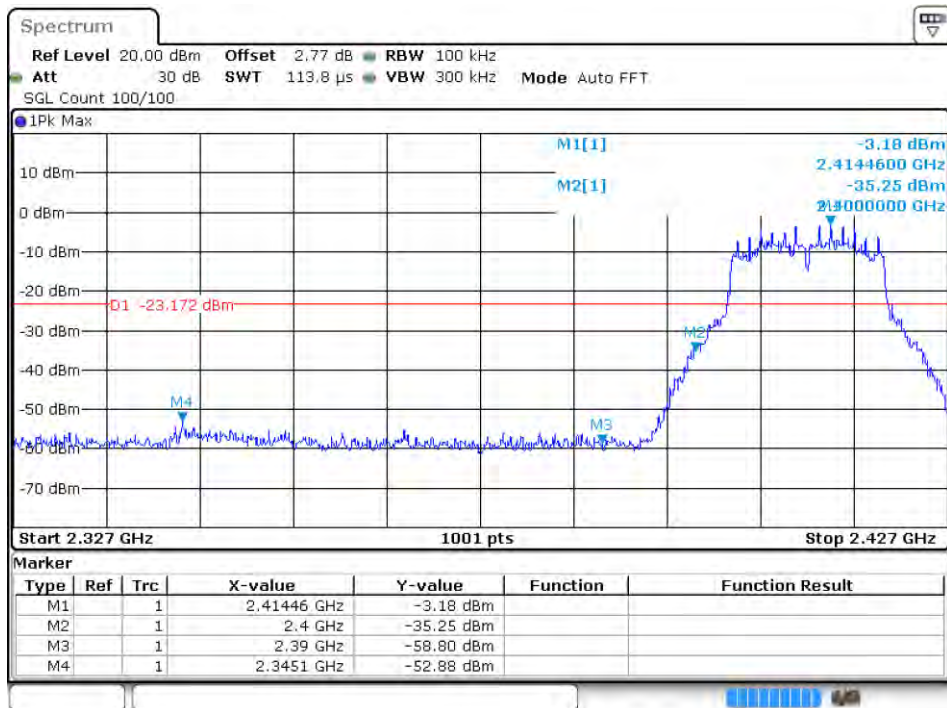
Band Edge NVNT b 2462MHz Ant1 Emission



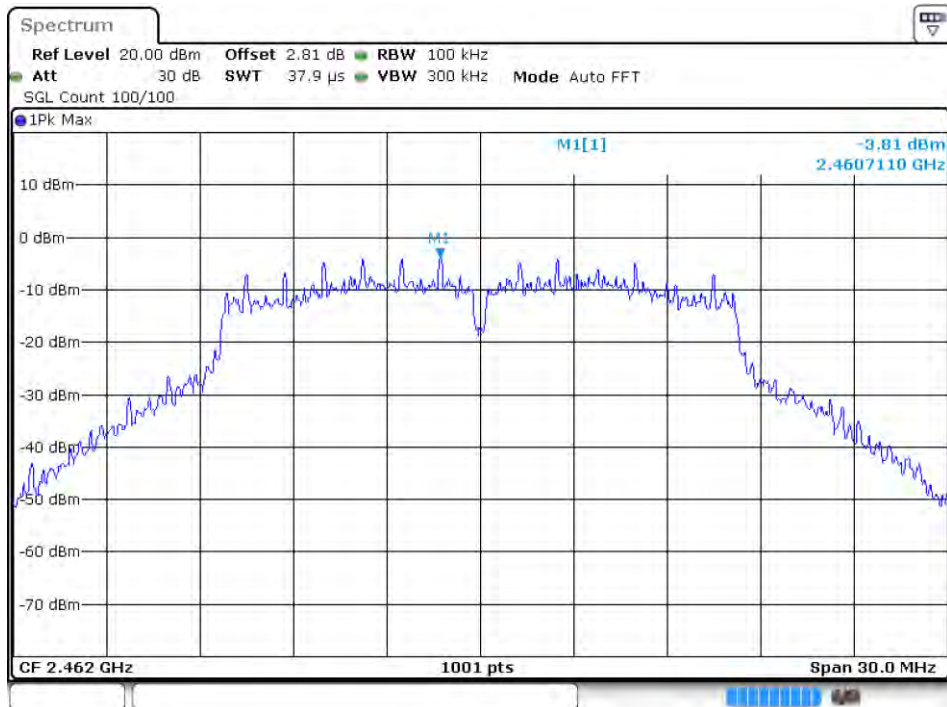
Band Edge NVNT g 2412MHz Ant1 Ref



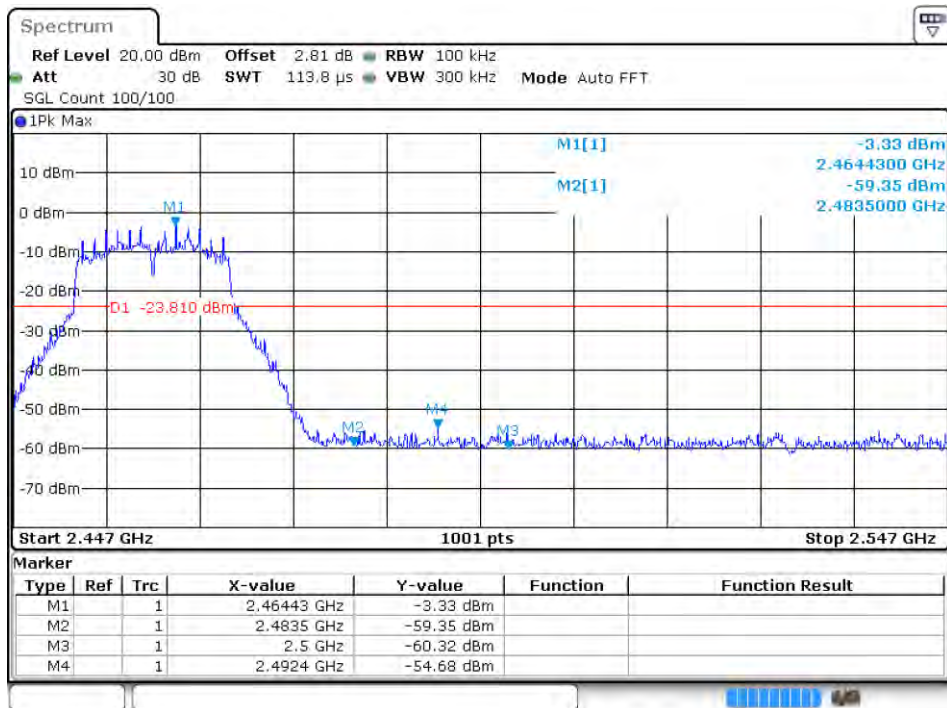
Band Edge NVNT g 2412MHz Ant1 Emission



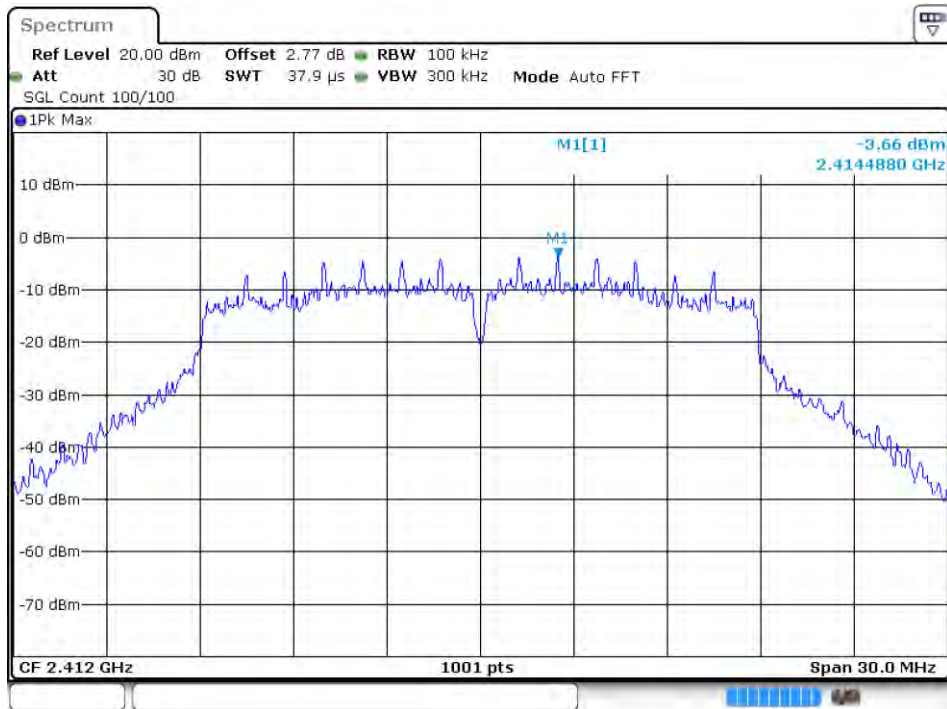
Band Edge NVNT g 2462MHz Ant1 Ref



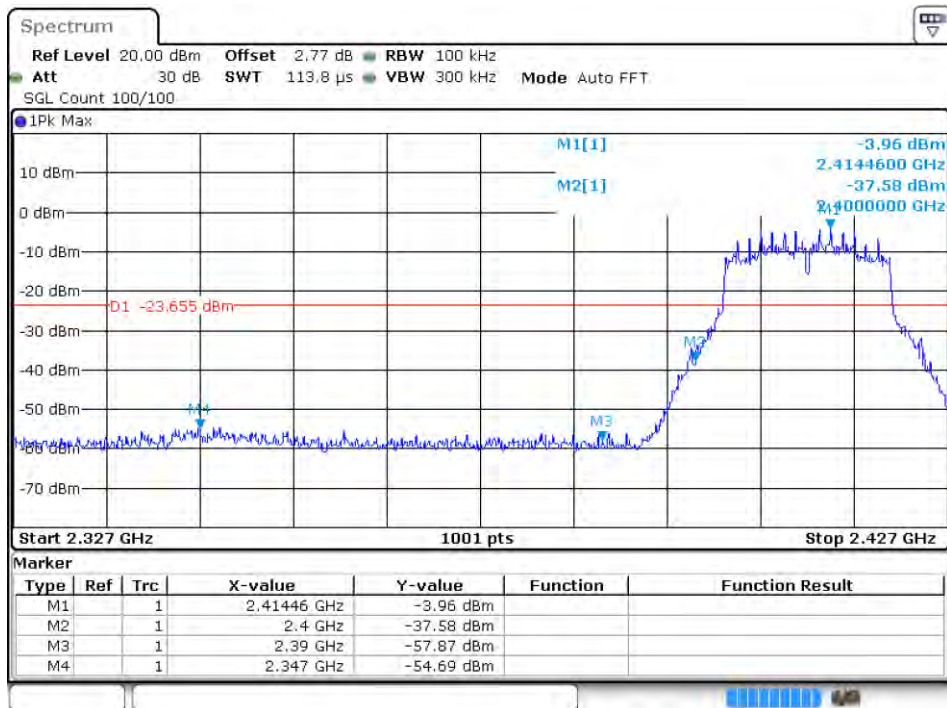
Band Edge NVNT g 2462MHz Ant1 Emission



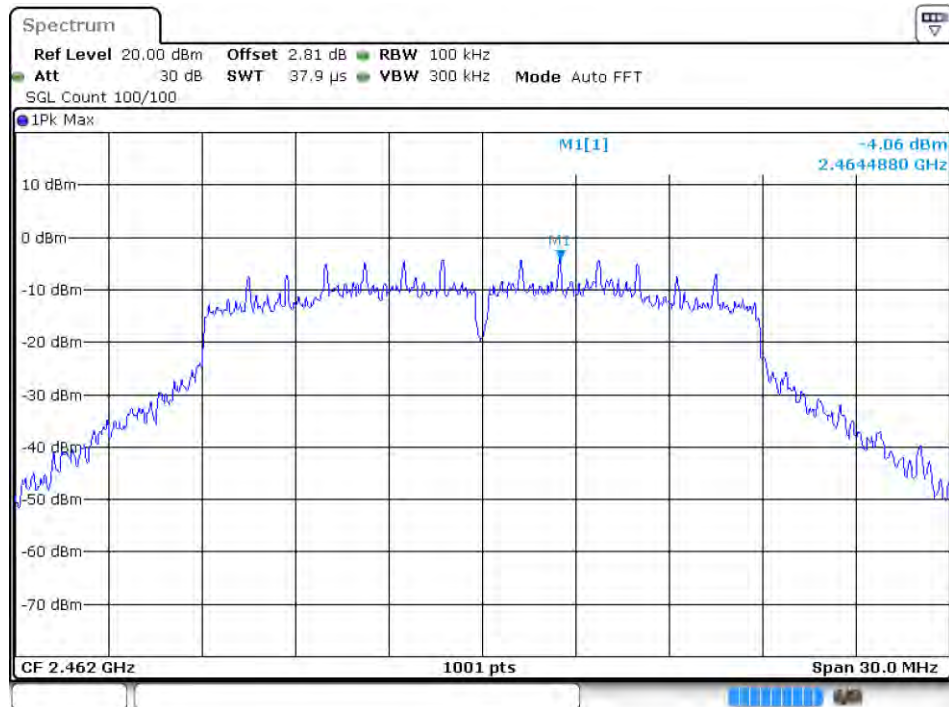
Band Edge NVNT n20 2412MHz Ant1 Ref



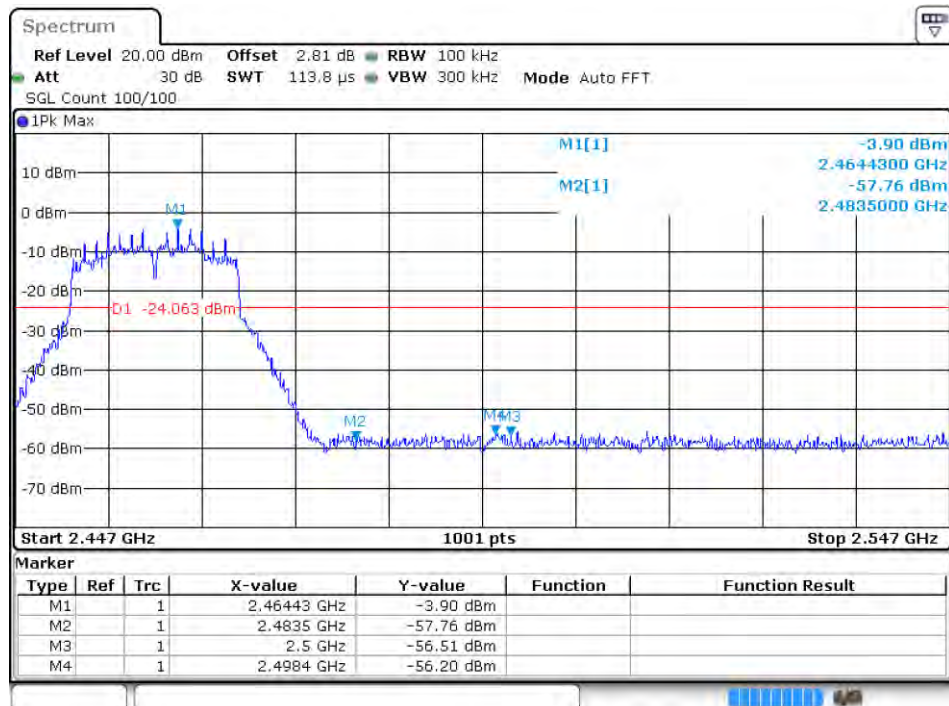
Band Edge NVNT n20 2412MHz Ant1 Emission



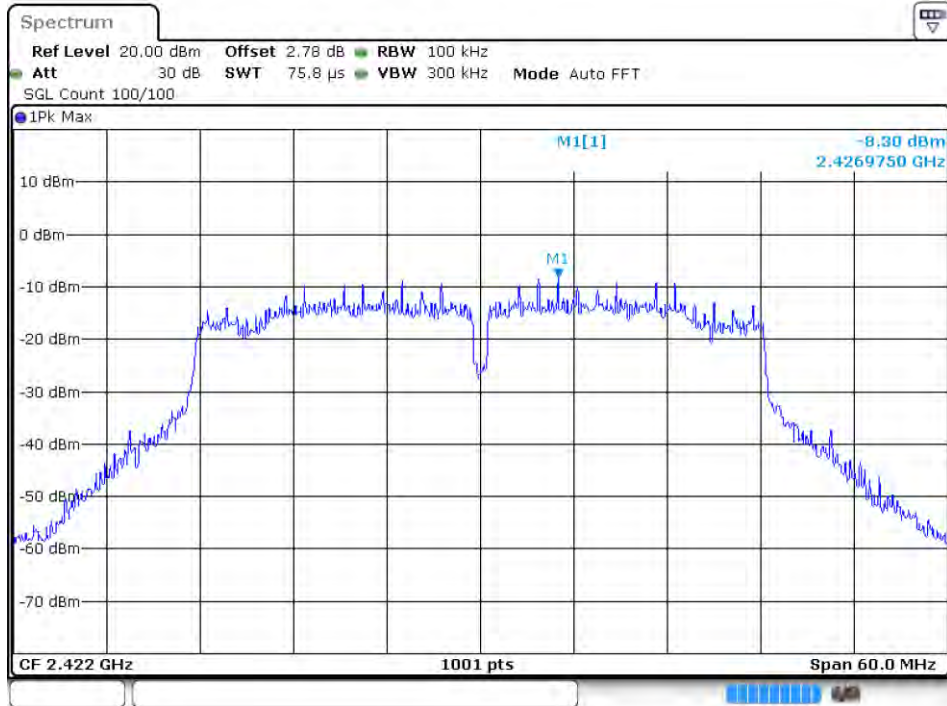
Band Edge NVNT n20 2462MHz Ant1 Ref



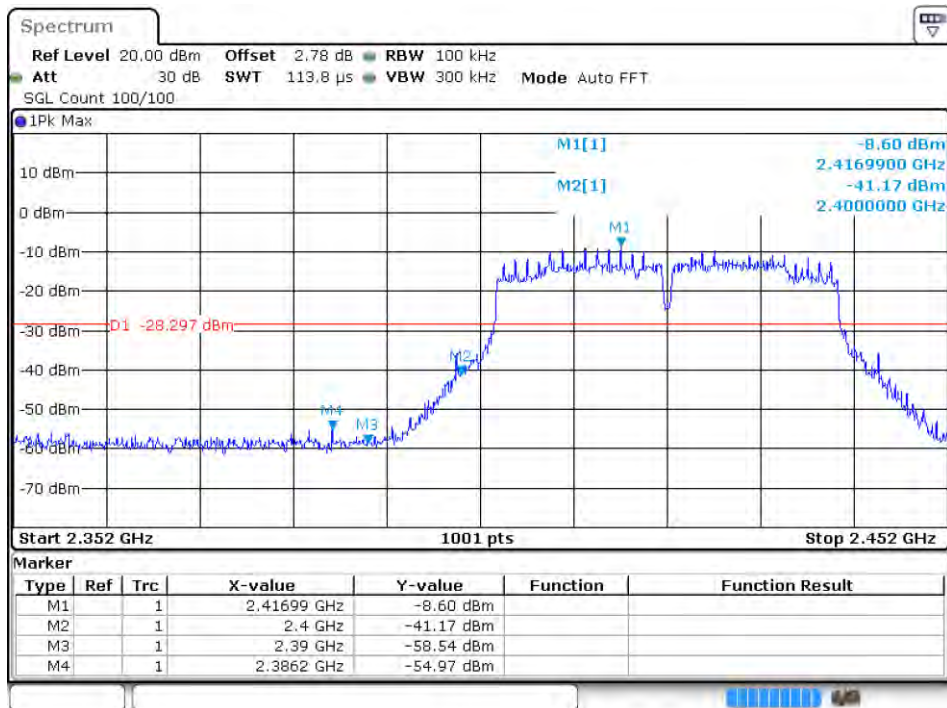
Band Edge NVNT n20 2462MHz Ant1 Emission



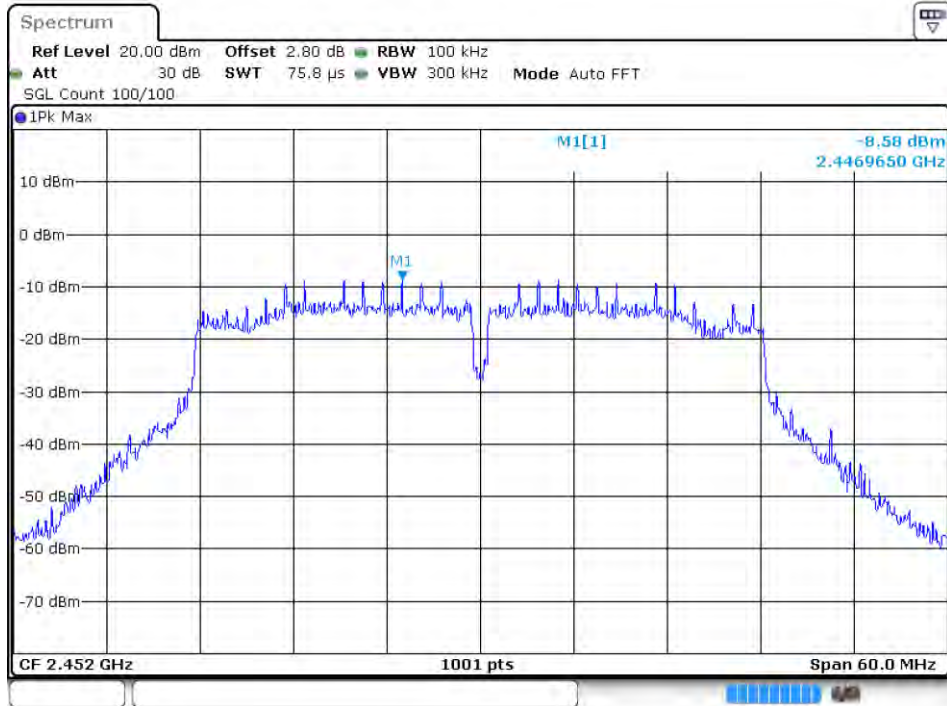
Band Edge NVNT n40 2422MHz Ant1 Ref



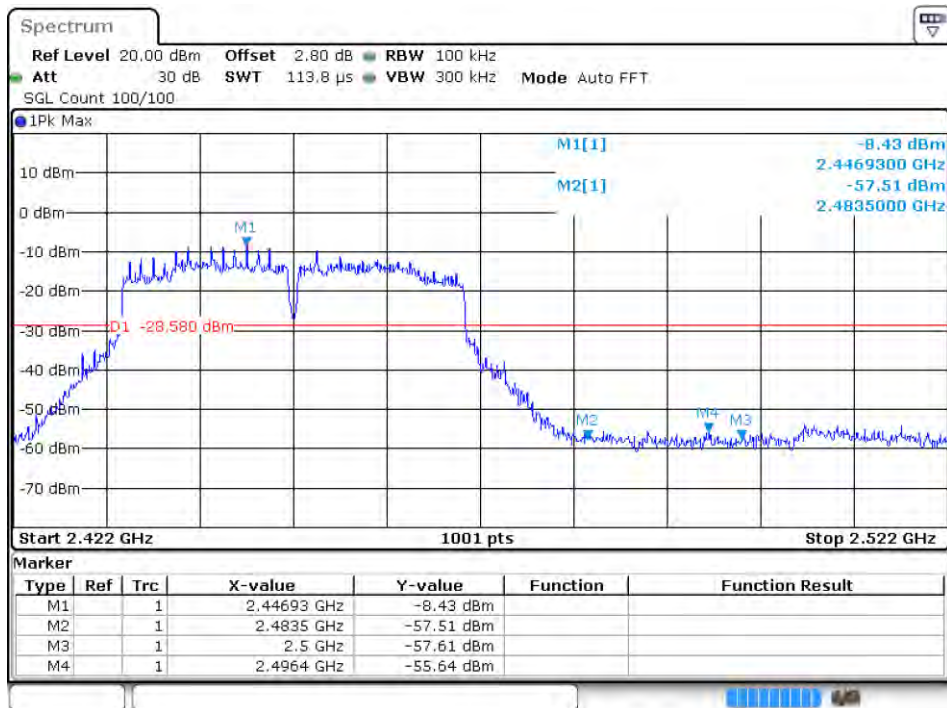
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission



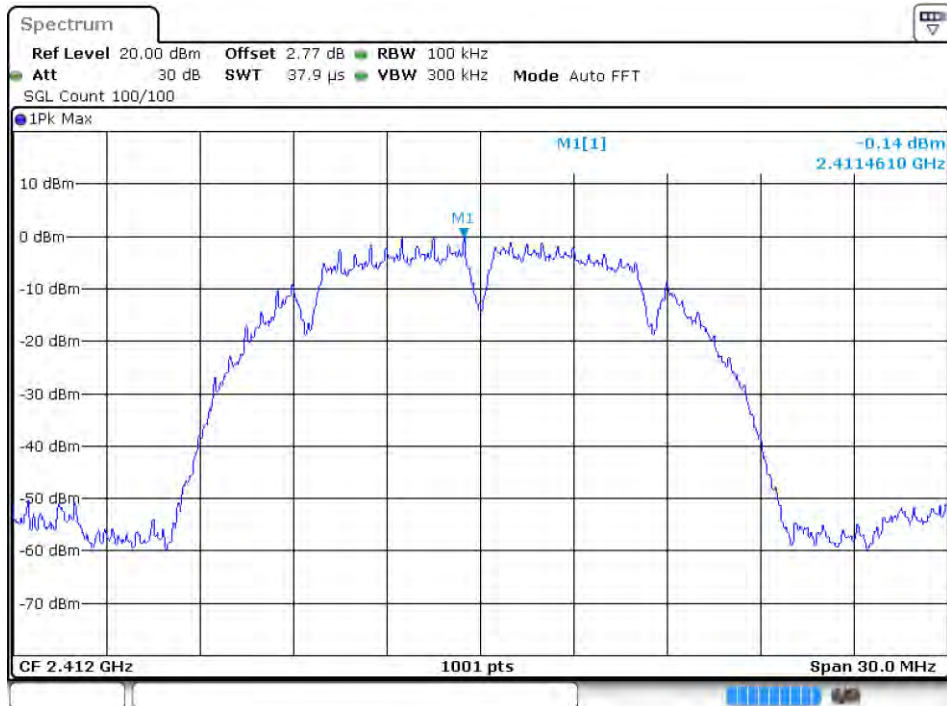


Conducted RF Spurious Emission

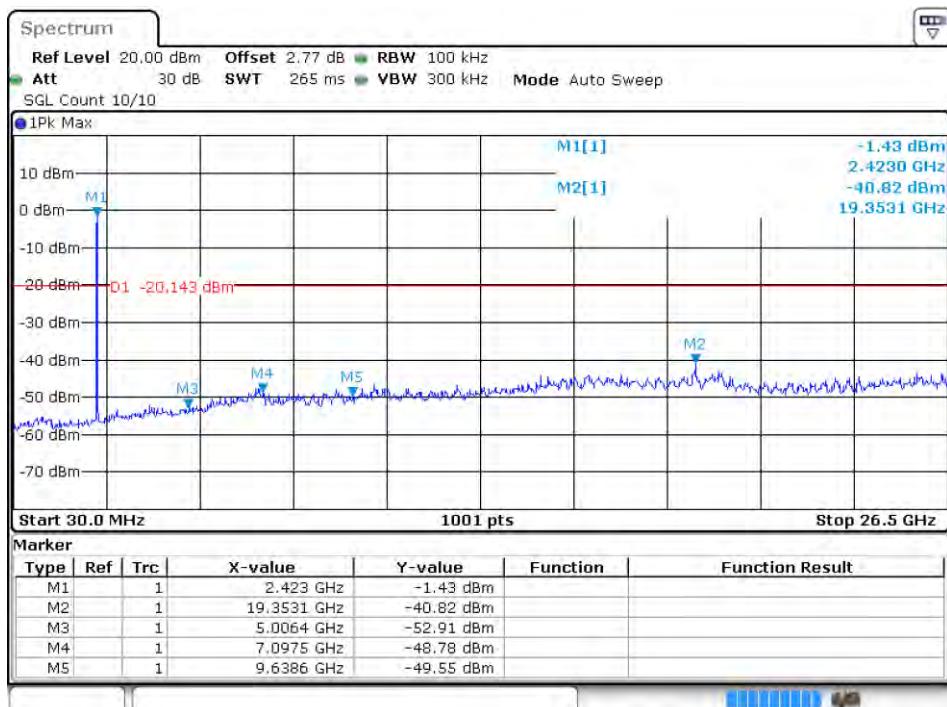
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-40.67	-20	Pass
NVNT	b	2437	Ant1	-42.39	-20	Pass
NVNT	b	2462	Ant1	-41.9	-20	Pass
NVNT	g	2412	Ant1	-39.13	-20	Pass
NVNT	g	2437	Ant1	-38.85	-20	Pass
NVNT	g	2462	Ant1	-39	-20	Pass
NVNT	n20	2412	Ant1	-37.79	-20	Pass
NVNT	n20	2437	Ant1	-38.63	-20	Pass
NVNT	n20	2462	Ant1	-38.76	-20	Pass
NVNT	n40	2422	Ant1	-33.8	-20	Pass
NVNT	n40	2437	Ant1	-33.98	-20	Pass
NVNT	n40	2452	Ant1	-33.66	-20	Pass

Test Graphs

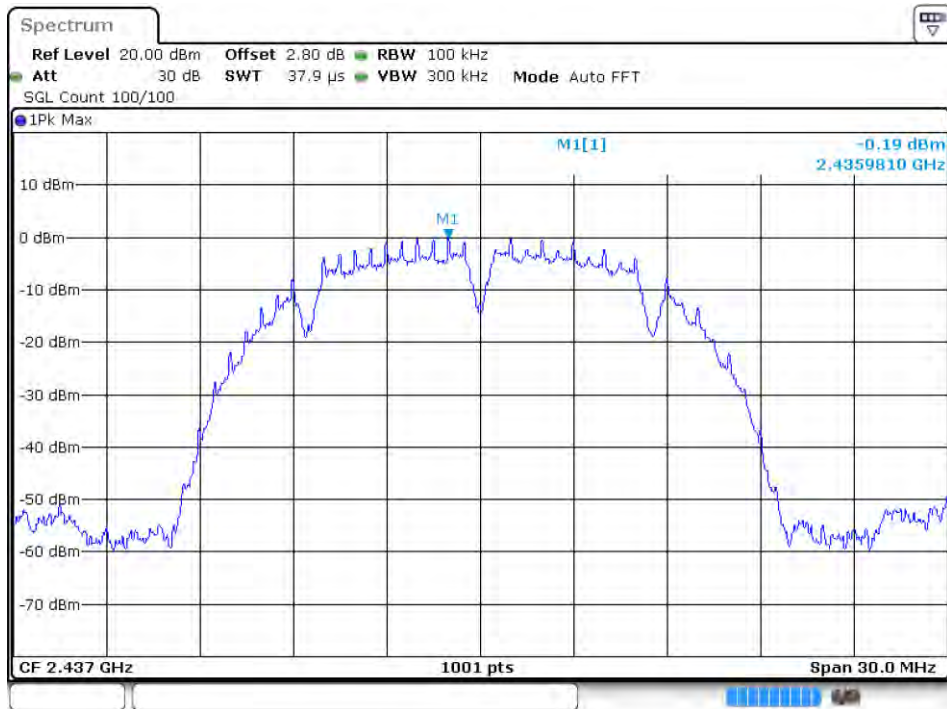
Tx. Spurious NVNT b 2412MHz Ant1 Ref



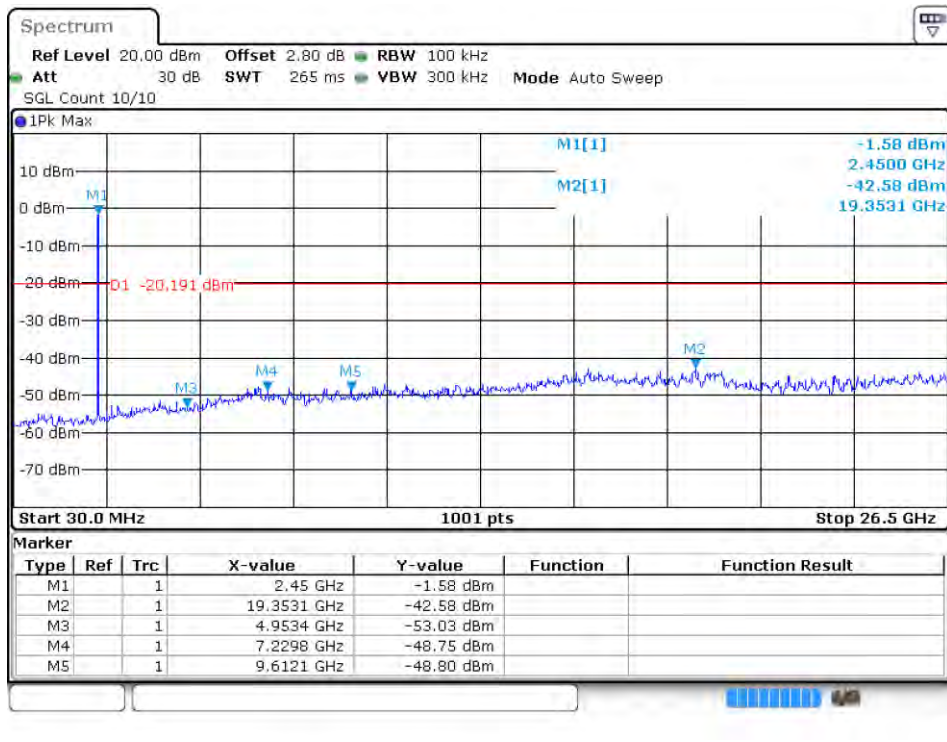
Tx. Spurious NVNT b 2412MHz Ant1 Emission



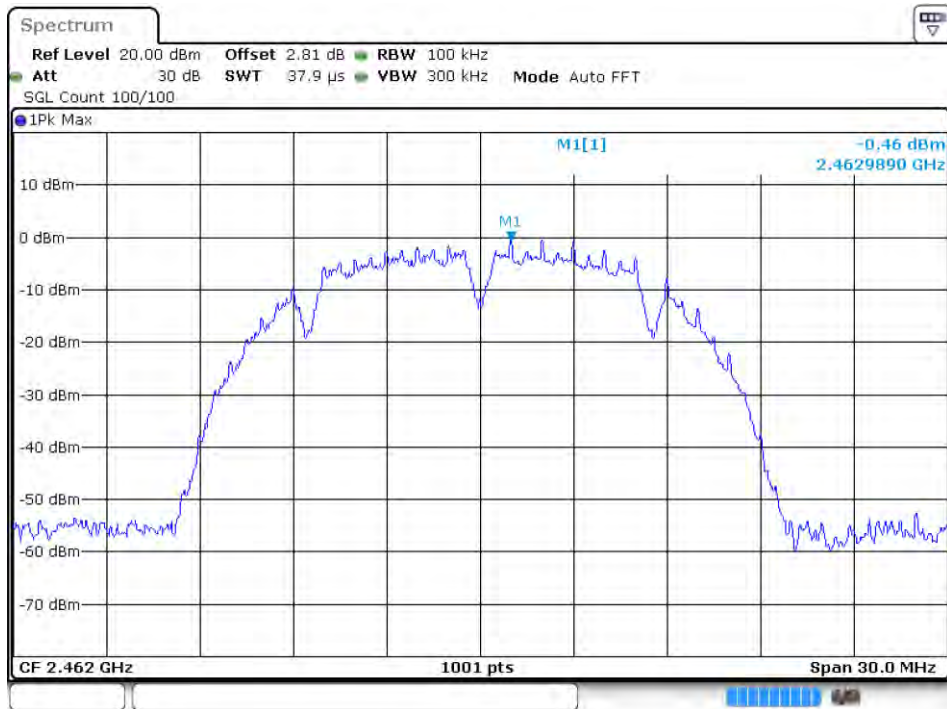
Tx. Spurious NVNT b 2437MHz Ant1 Ref



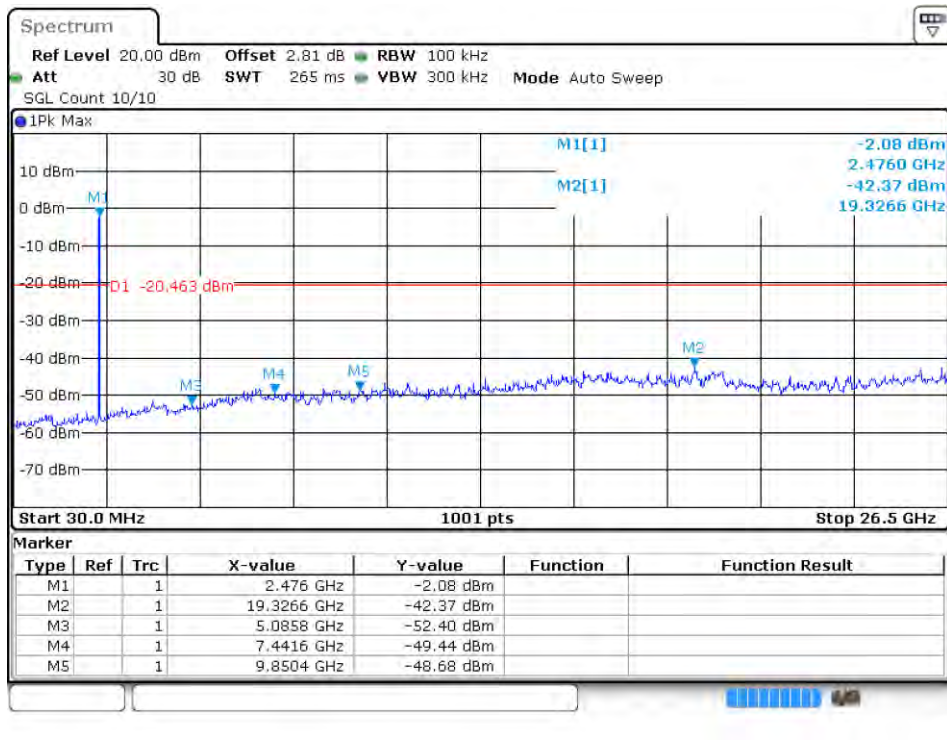
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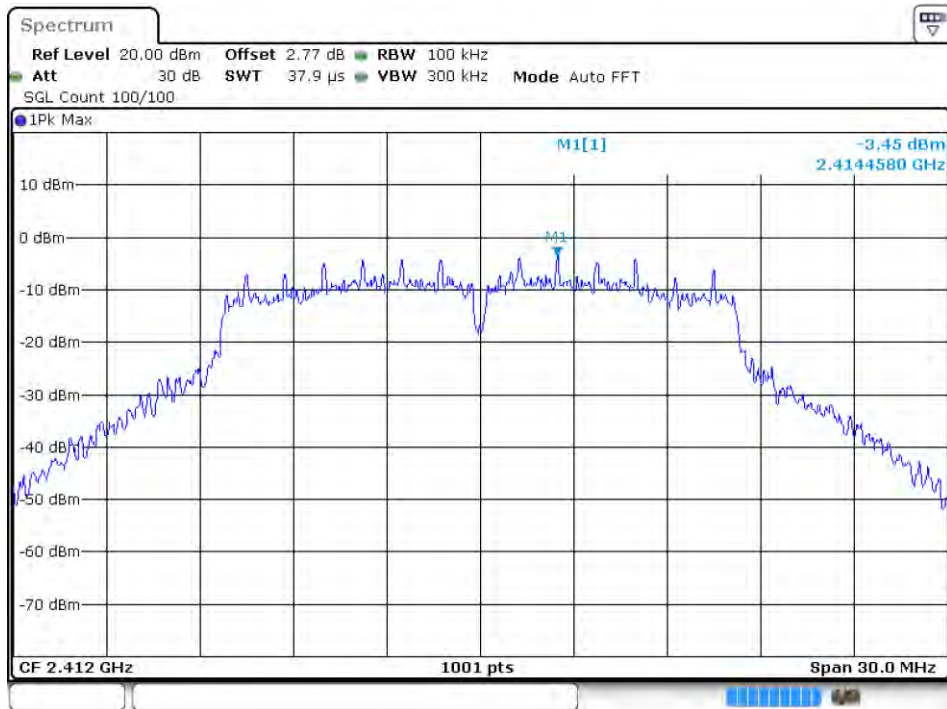
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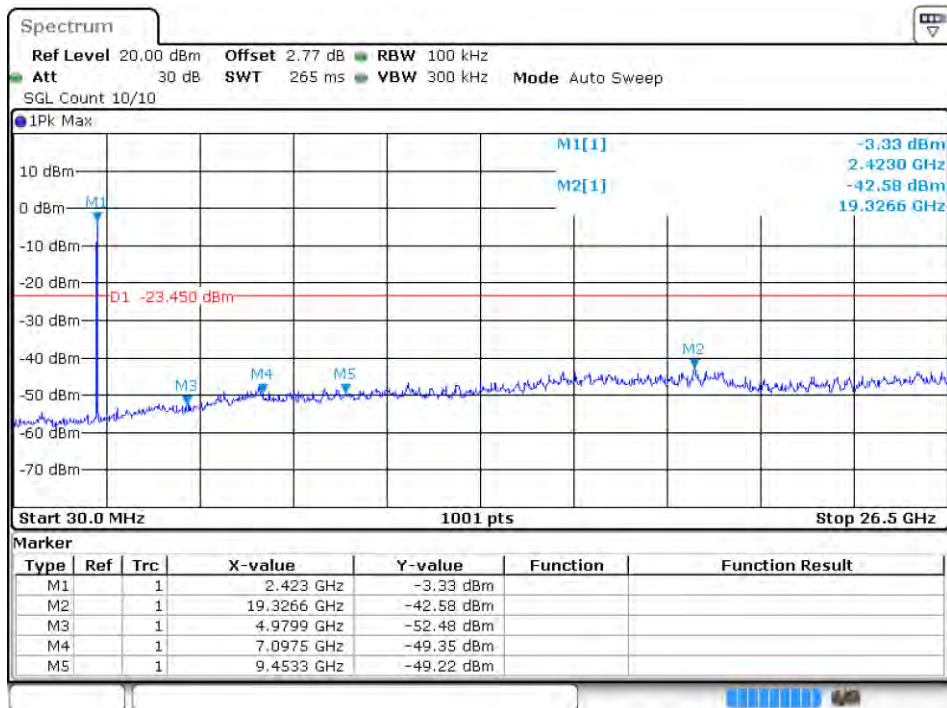
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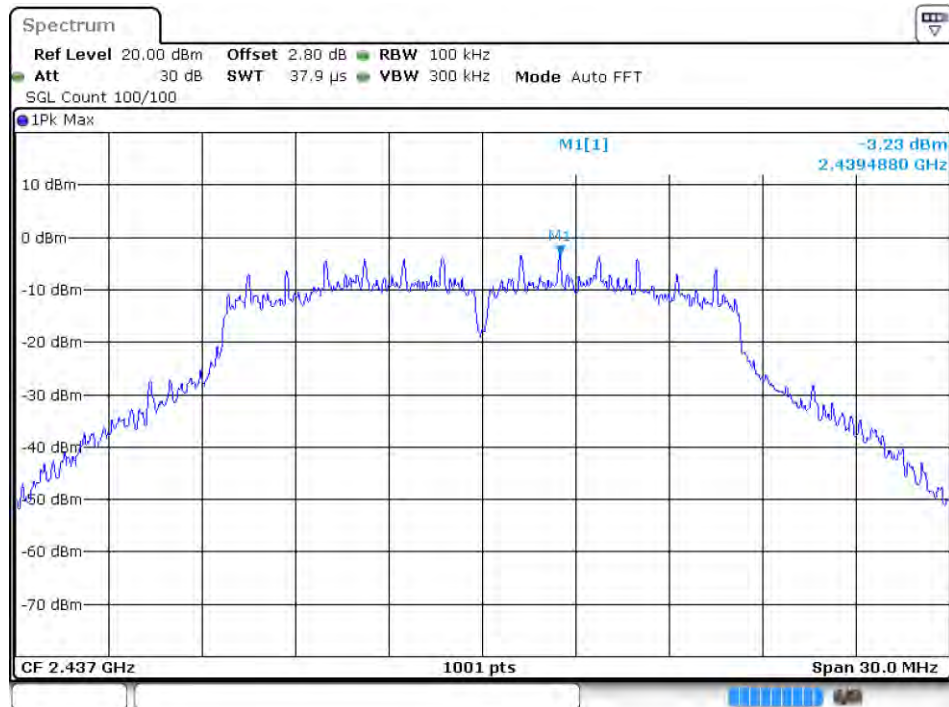
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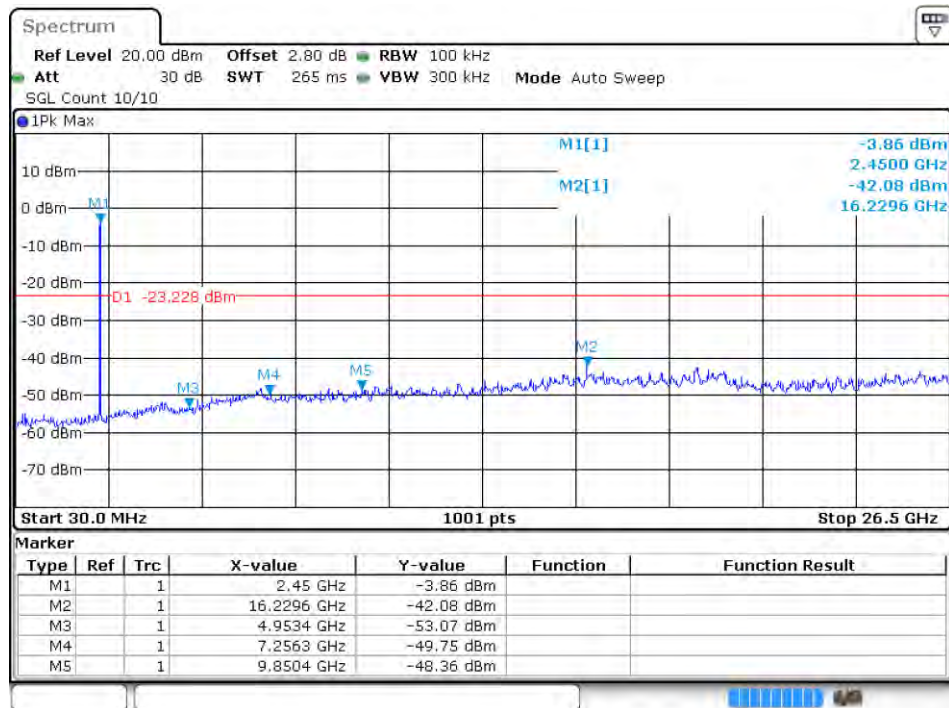
Tx. Spurious NVNT g 2412MHz Ant1 Emission



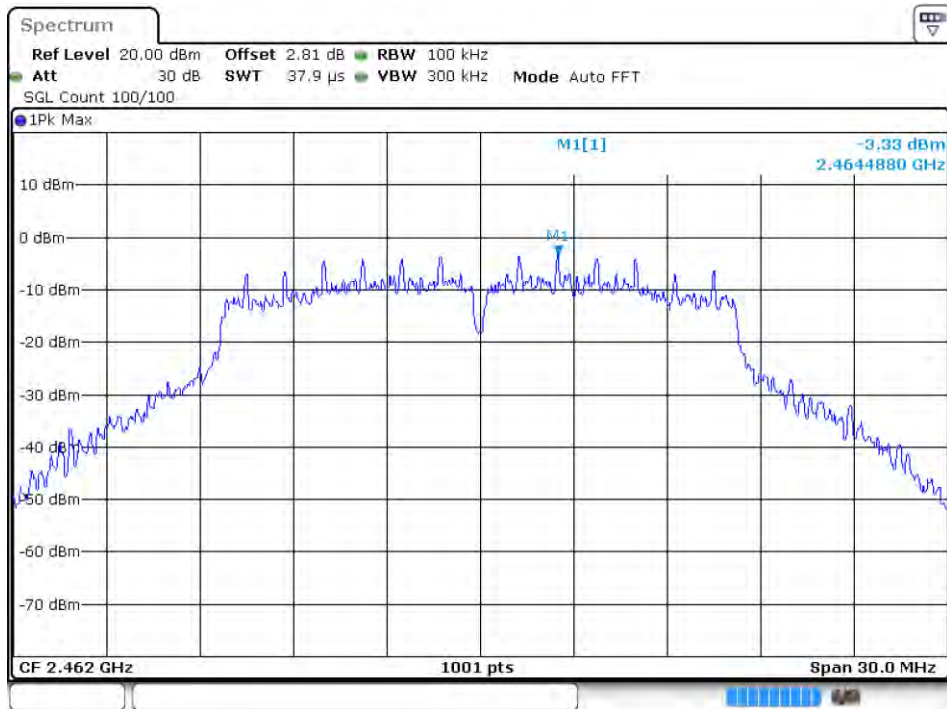
Tx. Spurious NVNT g 2437MHz Ant1 Ref



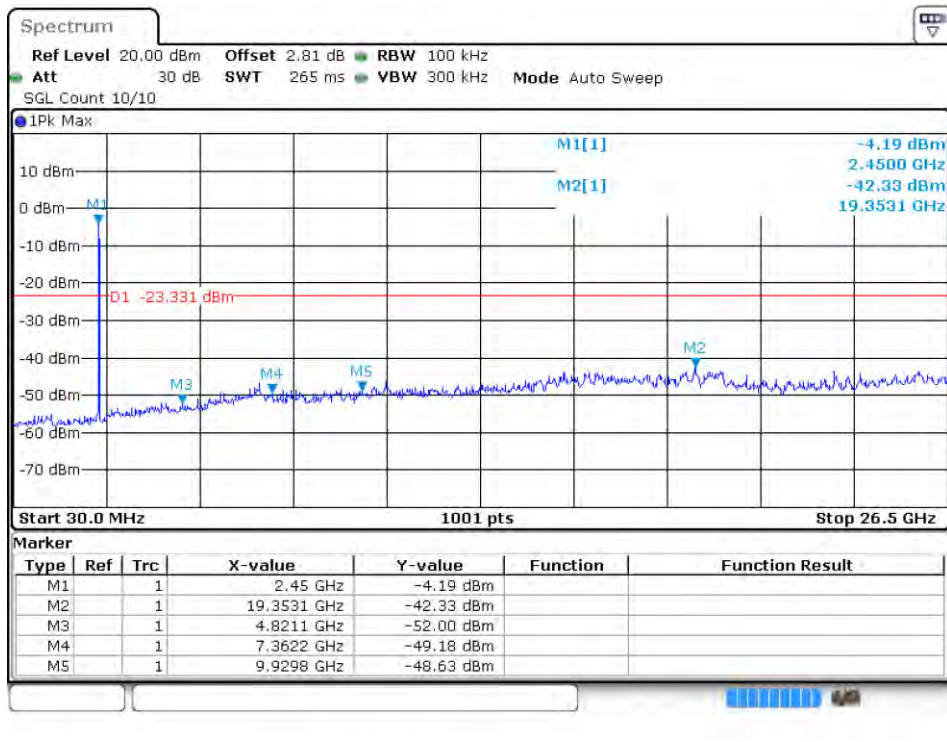
Tx. Spurious NVNT g 2437MHz Ant1 Emission



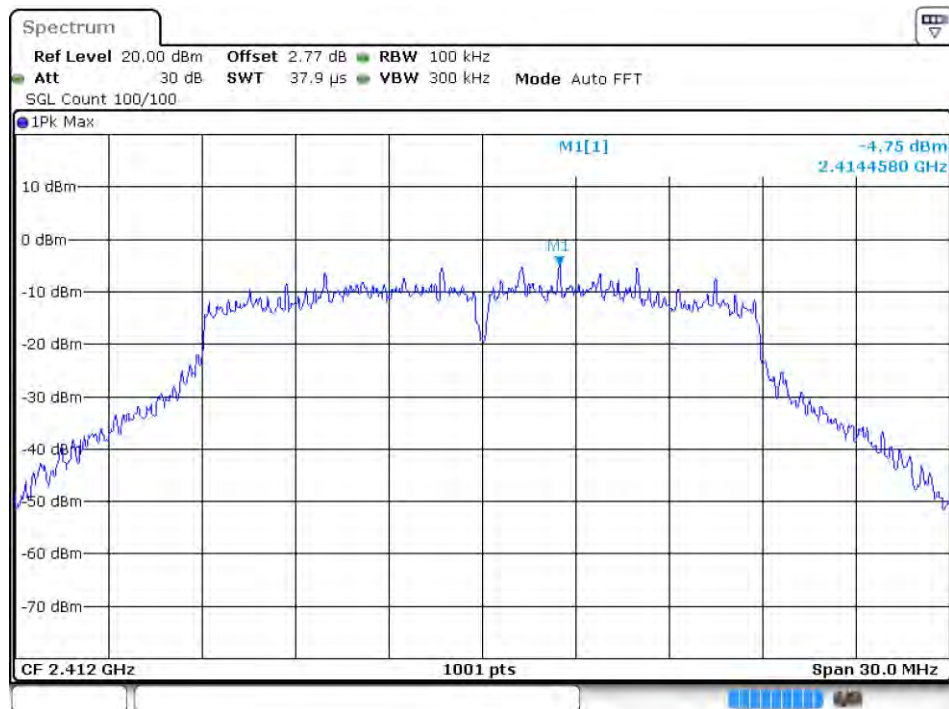
Tx. Spurious NVNT g 2462MHz Ant1 Ref



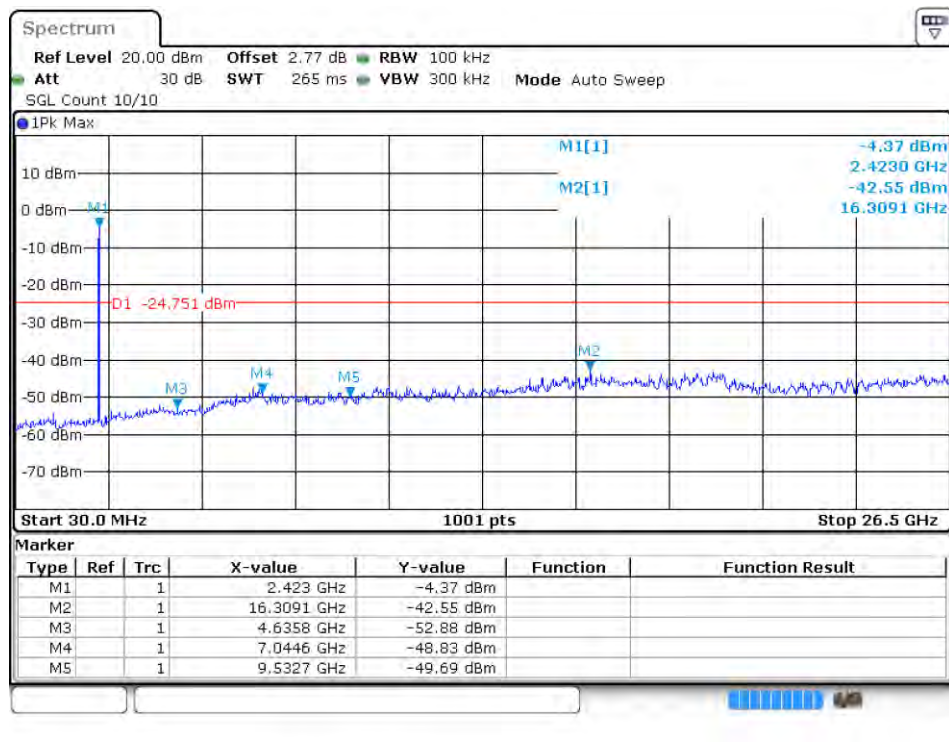
Tx. Spurious NVNT g 2462MHz Ant1 Emission



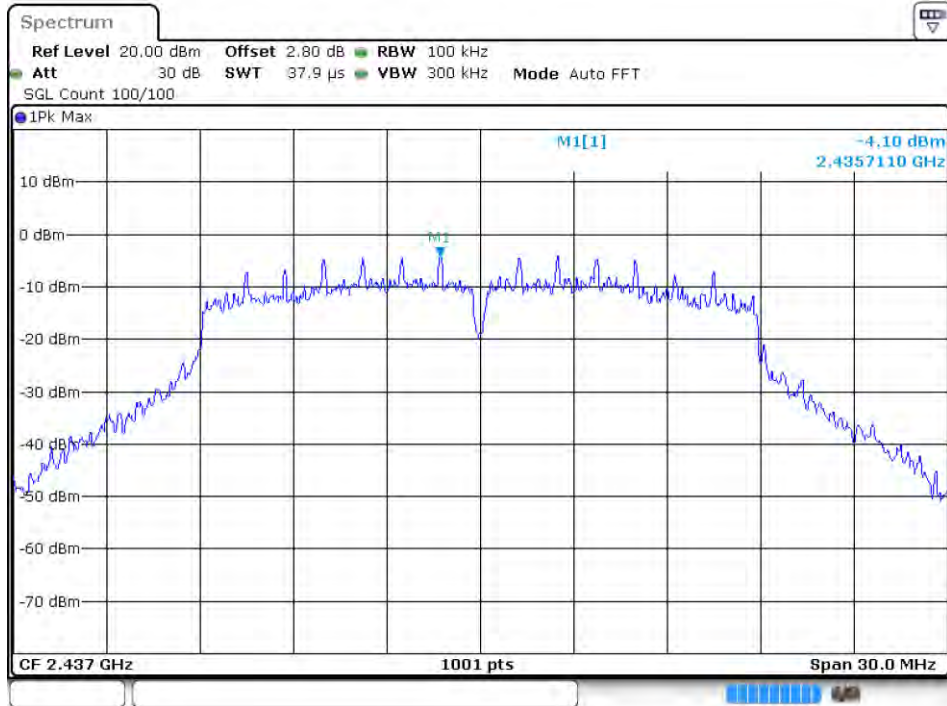
Tx. Spurious NVNT n20 2412MHz Ant1 Ref



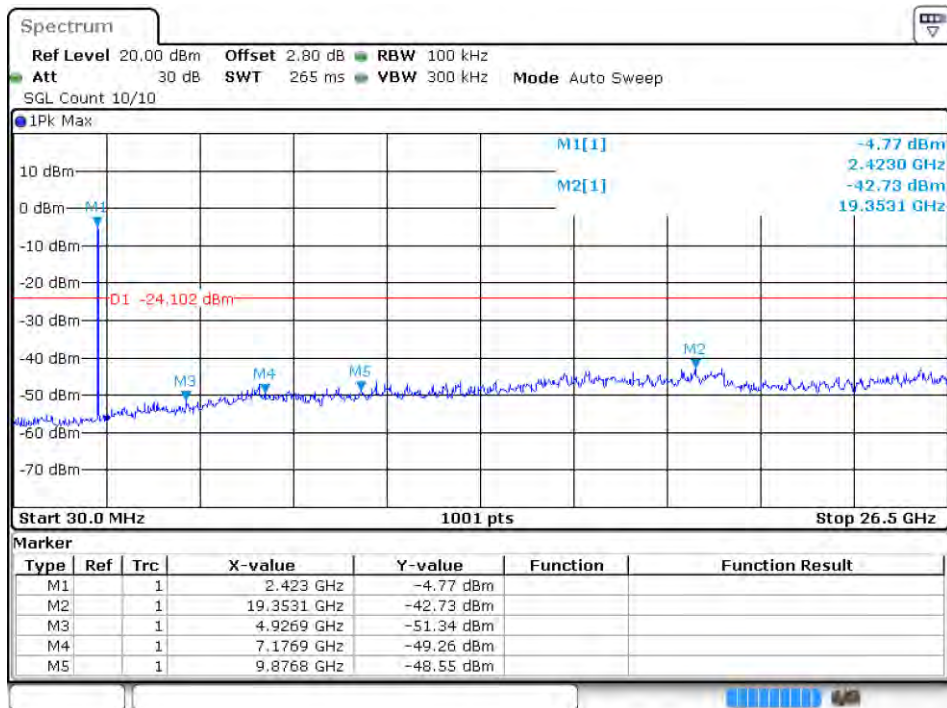
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



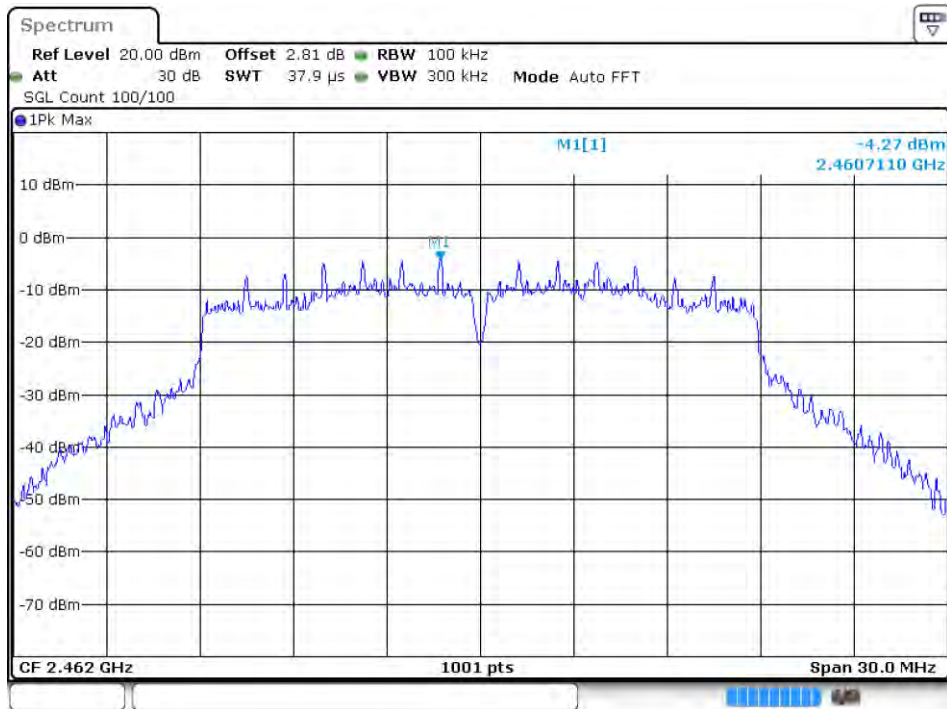
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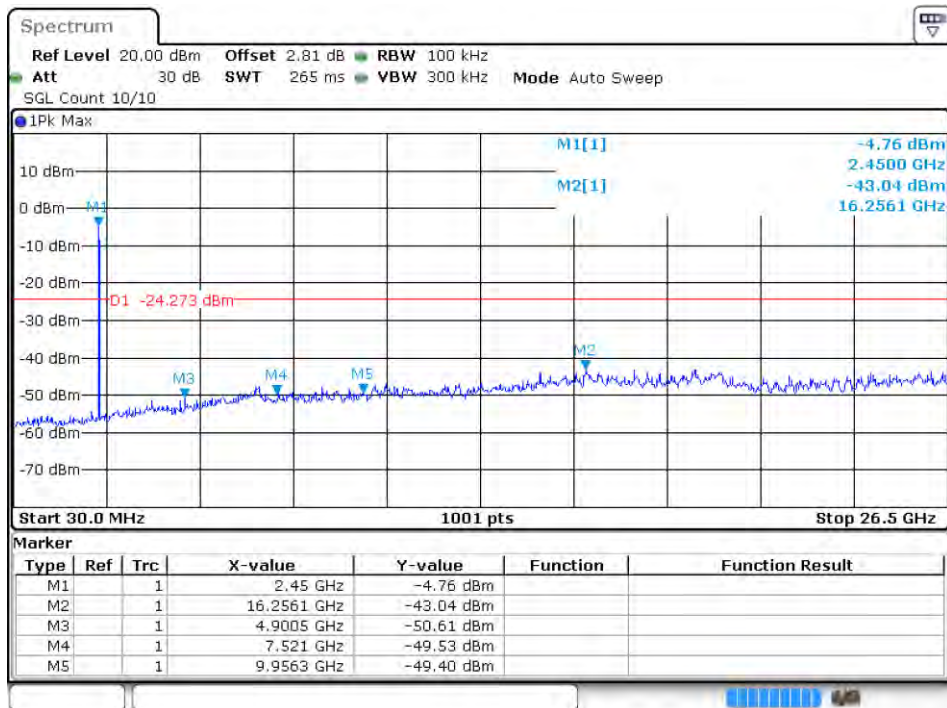
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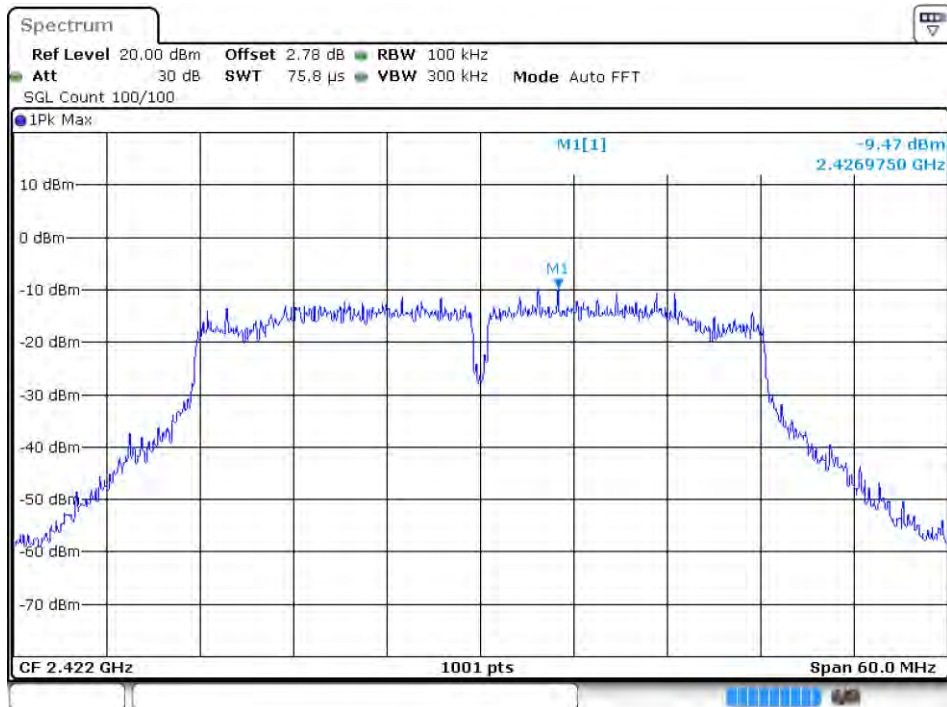
Tx. Spurious NVNT n20 2462MHz Ant1 Ref



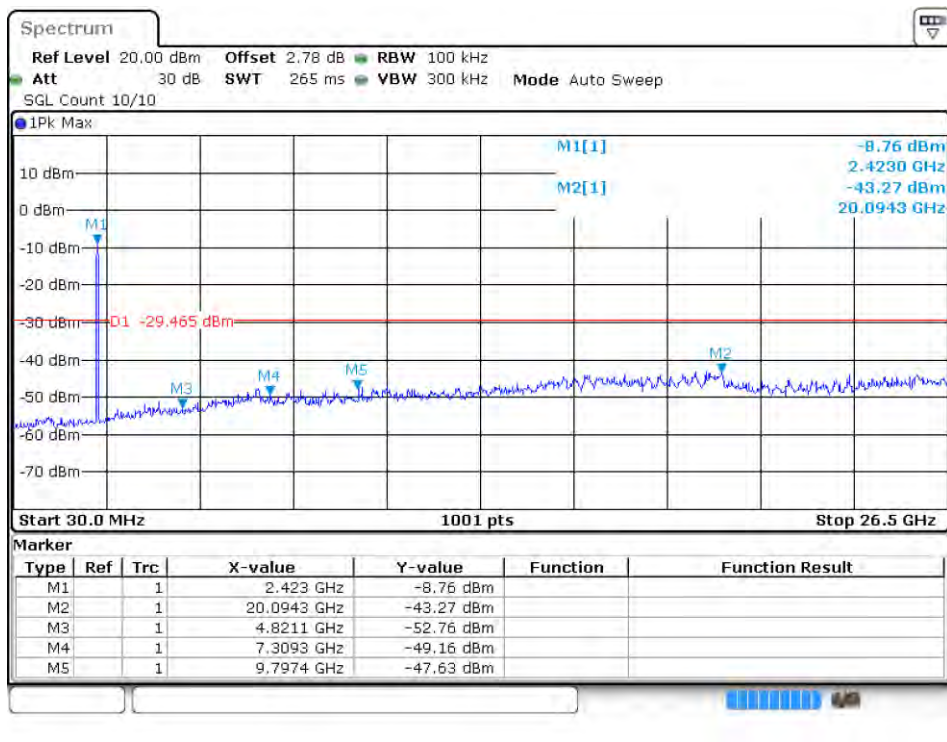
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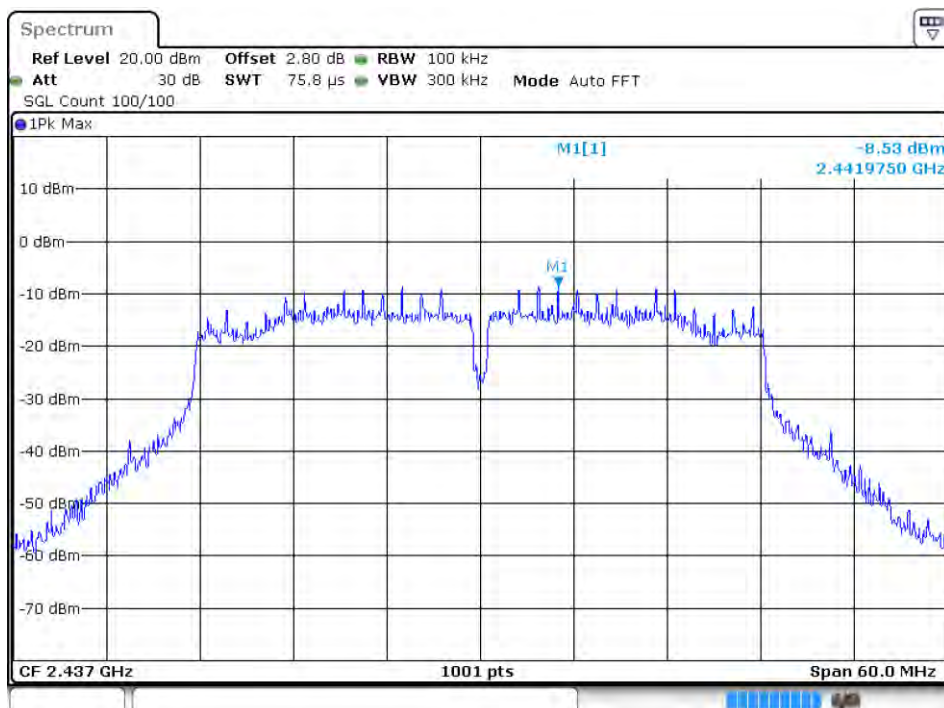
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



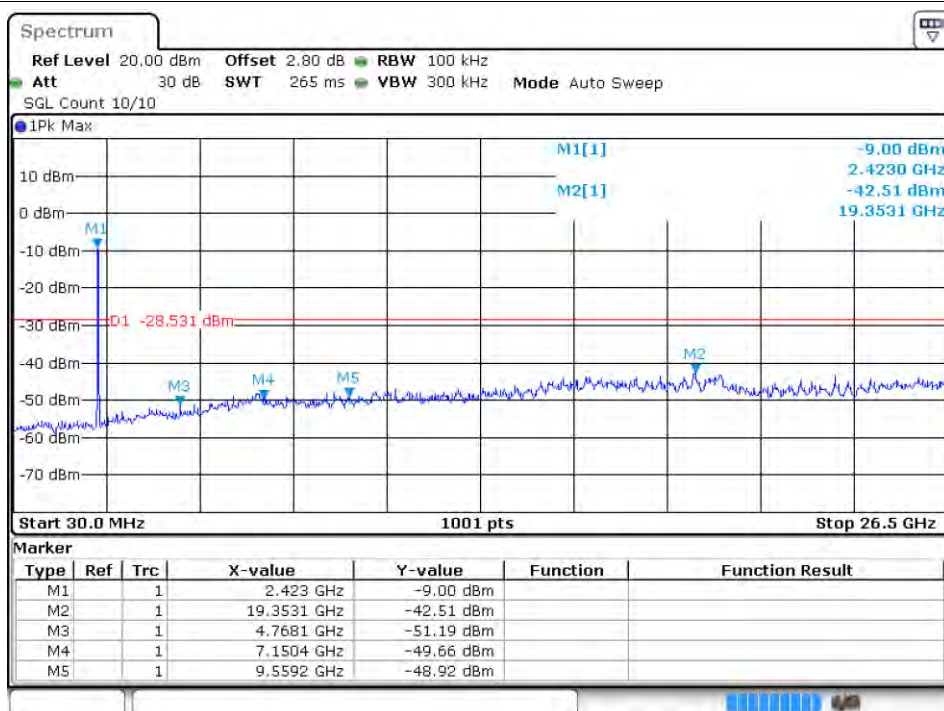
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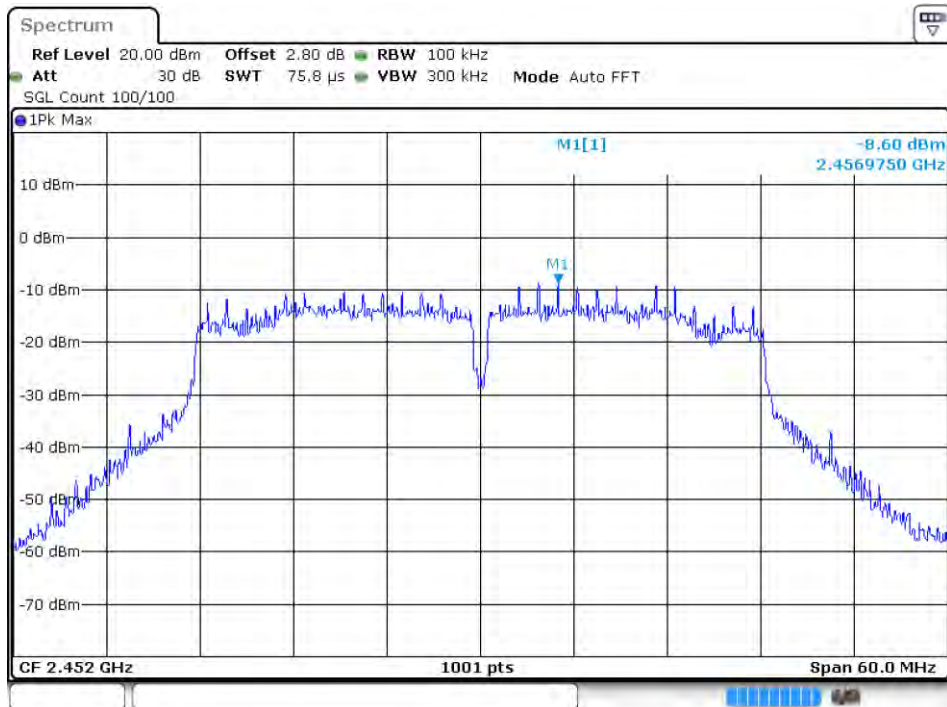
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



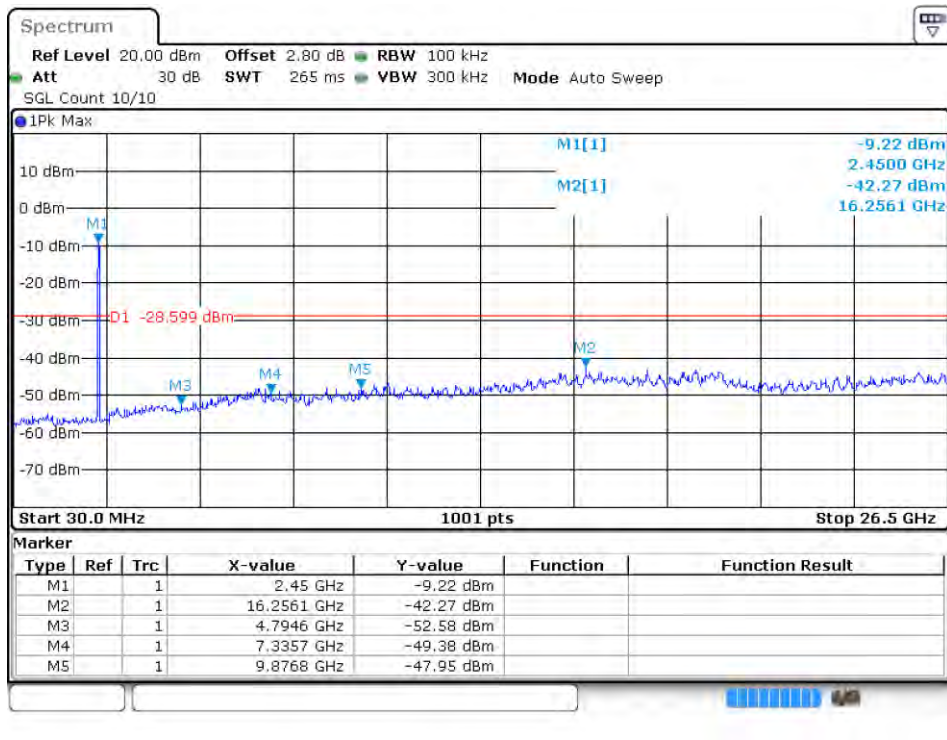
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant1 Ref



Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Restrict Band

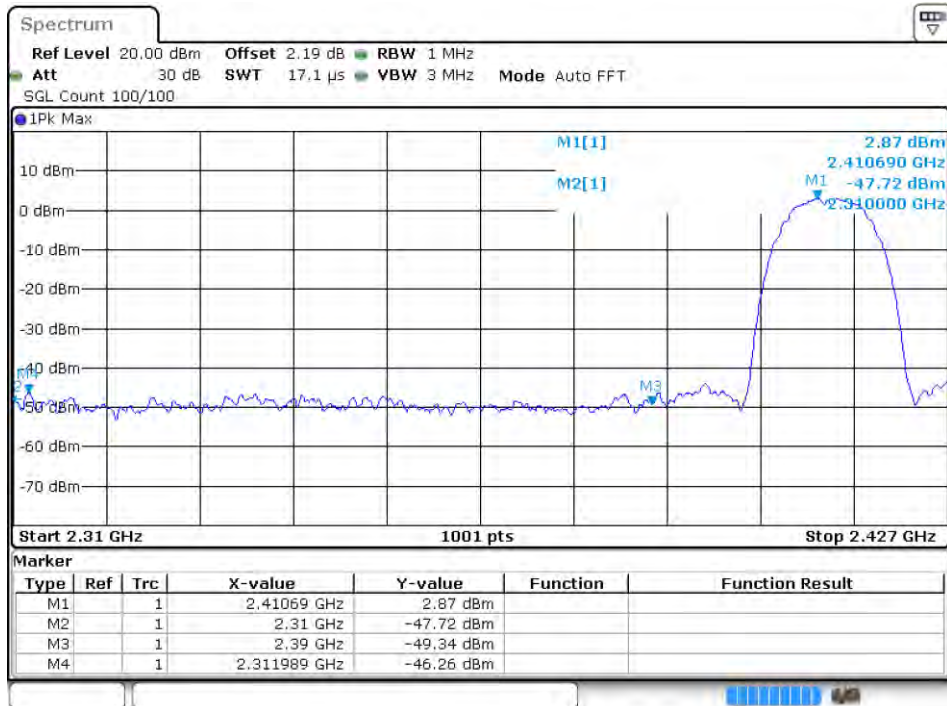
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	b	2412	Ant1	2310	-47.72	2	49.54	Peak	74	Pass
NVNT	b	2412	Ant1	2310	-58.78	2	38.48	Average	54	Pass
NVNT	b	2412	Ant1	2311.989	-46.25	2	51.01	Peak	74	Pass
NVNT	b	2412	Ant1	2385.933	-56.61	2	40.65	Average	54	Pass
NVNT	b	2412	Ant1	2390	-49.34	2	47.92	Peak	74	Pass
NVNT	b	2412	Ant1	2390	-57.55	2	39.71	Average	54	Pass
NVNT	b	2462	Ant1	2483.5	-48.75	2	48.51	Peak	74	Pass
NVNT	b	2462	Ant1	2483.5	-58.26	2	39	Average	54	Pass
NVNT	b	2462	Ant1	2487.916	-46.85	2	50.41	Peak	74	Pass
NVNT	b	2462	Ant1	2484.312	-57.91	2	39.35	Average	54	Pass
NVNT	b	2462	Ant1	2500	-47.18	2	50.08	Peak	74	Pass
NVNT	b	2462	Ant1	2500	-58.67	2	38.59	Average	54	Pass
NVNT	g	2412	Ant1	2310	-49.75	2	47.51	Peak	74	Pass
NVNT	g	2412	Ant1	2310	-57.67	2	39.59	Average	54	Pass
NVNT	g	2412	Ant1	2316.318	-46.5	2	50.76	Peak	74	Pass
NVNT	g	2412	Ant1	2340.303	-55.64	2	41.62	Average	54	Pass
NVNT	g	2412	Ant1	2390	-51.05	2	46.21	Peak	74	Pass
NVNT	g	2412	Ant1	2390	-57.95	2	39.31	Average	54	Pass
NVNT	g	2462	Ant1	2483.5	-48.55	2	48.71	Peak	74	Pass
NVNT	g	2462	Ant1	2483.5	-57.12	2	40.14	Average	54	Pass
NVNT	g	2462	Ant1	2484.577	-47.93	2	49.33	Peak	74	Pass
NVNT	g	2462	Ant1	2498.145	-56.19	2	41.07	Average	54	Pass
NVNT	g	2462	Ant1	2500	-49.83	2	47.43	Peak	74	Pass
NVNT	g	2462	Ant1	2500	-57.62	2	39.64	Average	54	Pass
NVNT	n20	2412	Ant1	2310	-49.89	2	47.37	Peak	74	Pass
NVNT	n20	2412	Ant1	2310	-57.38	2	39.88	Average	54	Pass
NVNT	n20	2412	Ant1	2340.771	-46.22	2	51.04	Peak	74	Pass
NVNT	n20	2412	Ant1	2337.027	-55.06	2	42.2	Average	54	Pass
NVNT	n20	2412	Ant1	2390	-51.2	2	46.06	Peak	74	Pass
NVNT	n20	2412	Ant1	2390	-57.85	2	39.41	Average	54	Pass
NVNT	n20	2462	Ant1	2483.5	-48.38	2	48.88	Peak	74	Pass
NVNT	n20	2462	Ant1	2483.5	-57.18	2	40.08	Average	54	Pass
NVNT	n20	2462	Ant1	2484.1	-45.74	2	51.52	Peak	74	Pass
NVNT	n20	2462	Ant1	2484.895	-56.82	2	40.44	Average	54	Pass
NVNT	n20	2462	Ant1	2500	-50.66	2	46.6	Peak	74	Pass
NVNT	n20	2462	Ant1	2500	-57.02	2	40.24	Average	54	Pass
NVNT	n40	2422	Ant1	2310	-50.23	2	47.03	Peak	74	Pass
NVNT	n40	2422	Ant1	2310	-57.18	2	40.08	Average	54	Pass
NVNT	n40	2422	Ant1	2340.956	-46.79	2	50.47	Peak	74	Pass



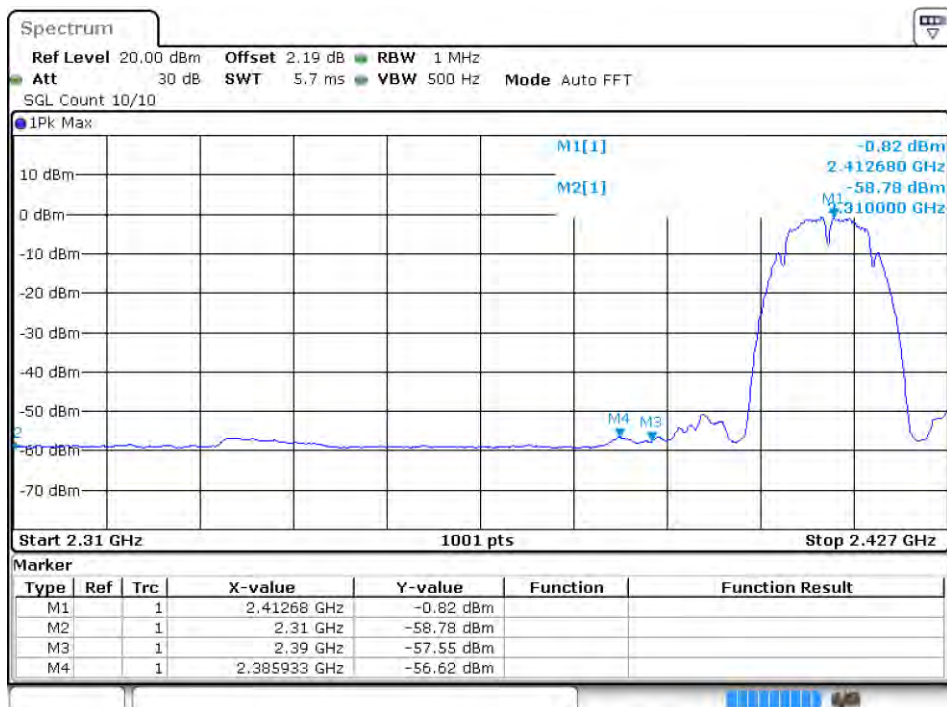
NVNT	n40	2422	Ant1	2342.234	-55.32	2	41.94	Average	54	Pass
NVNT	n40	2422	Ant1	2390	-49.19	2	48.07	Peak	74	Pass
NVNT	n40	2422	Ant1	2390	-57.89	2	39.37	Average	54	Pass
NVNT	n40	2452	Ant1	2483.5	-48.33	2	48.93	Peak	74	Pass
NVNT	n40	2452	Ant1	2483.5	-56.78	2	40.48	Average	54	Pass
NVNT	n40	2452	Ant1	2494.774	-45.55	2	51.71	Peak	74	Pass
NVNT	n40	2452	Ant1	2487.676	-56.25	2	41.01	Average	54	Pass
NVNT	n40	2452	Ant1	2500	-50.3	2	46.96	Peak	74	Pass
NVNT	n40	2452	Ant1	2500	-57.55	2	39.71	Average	54	Pass

Test Graphs

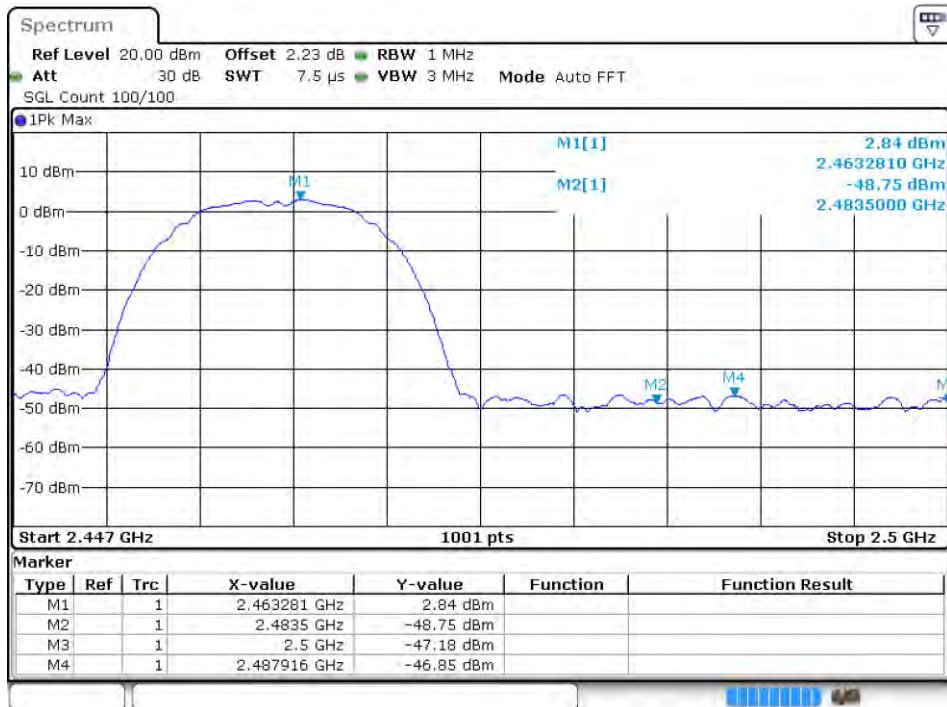
Restrict Band NVNT b 2412MHz Ant1 Peak



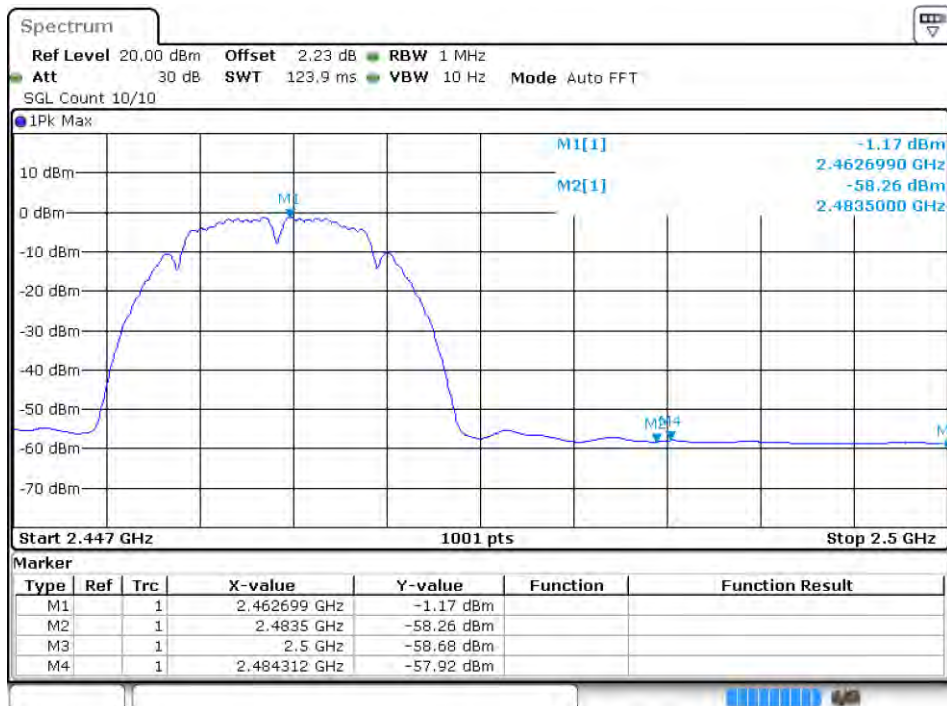
Restrict Band NVNT b 2412MHz Ant1 Average



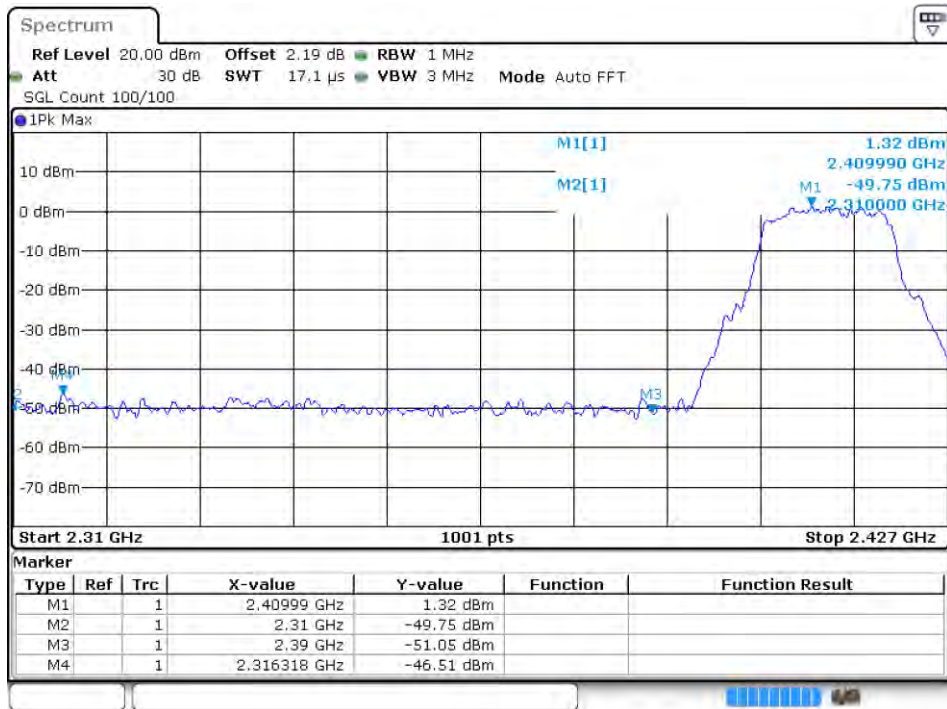
Restrict Band NVNT b 2462MHz Ant1 Peak



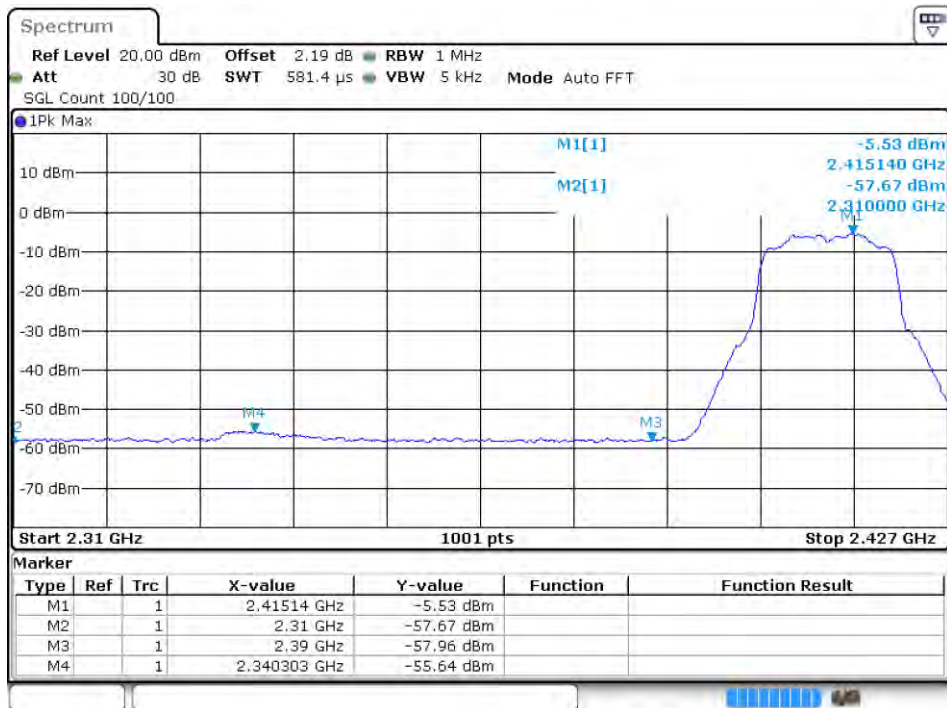
Restrict Band NVNT b 2462MHz Ant1 Average



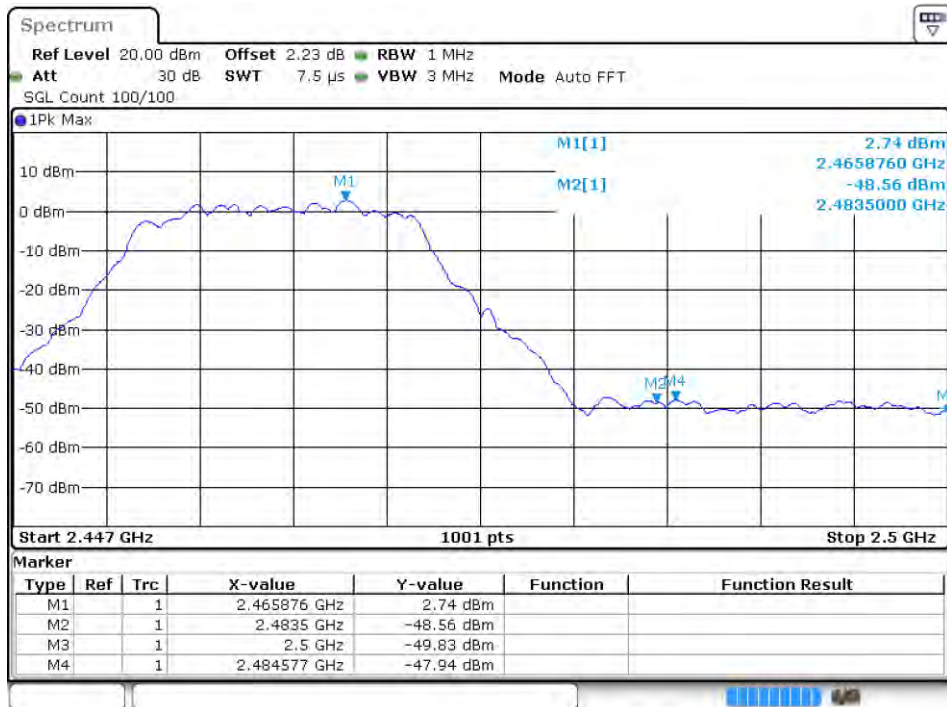
Restrict Band NVNT g 2412MHz Ant1 Peak



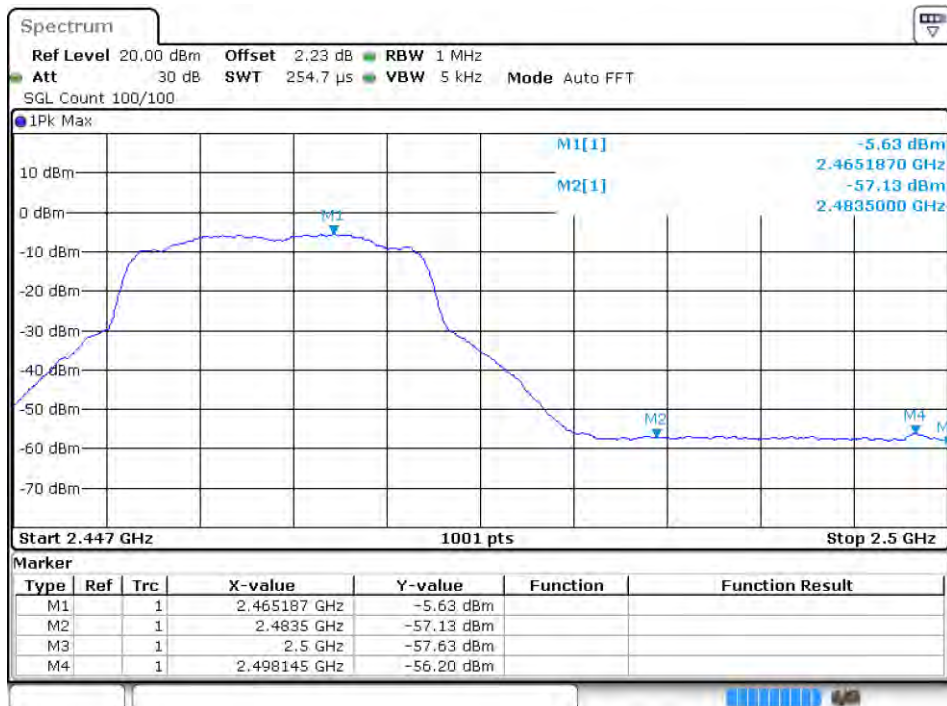
Restrict Band NVNT g 2412MHz Ant1 Average



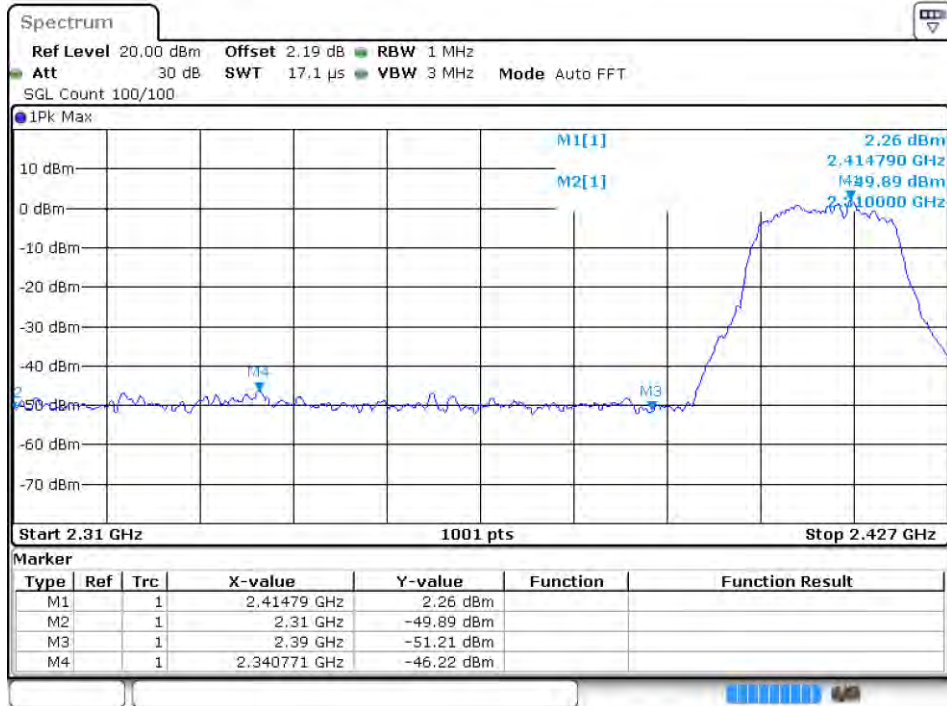
Restrict Band NVNT g 2462MHz Ant1 Peak



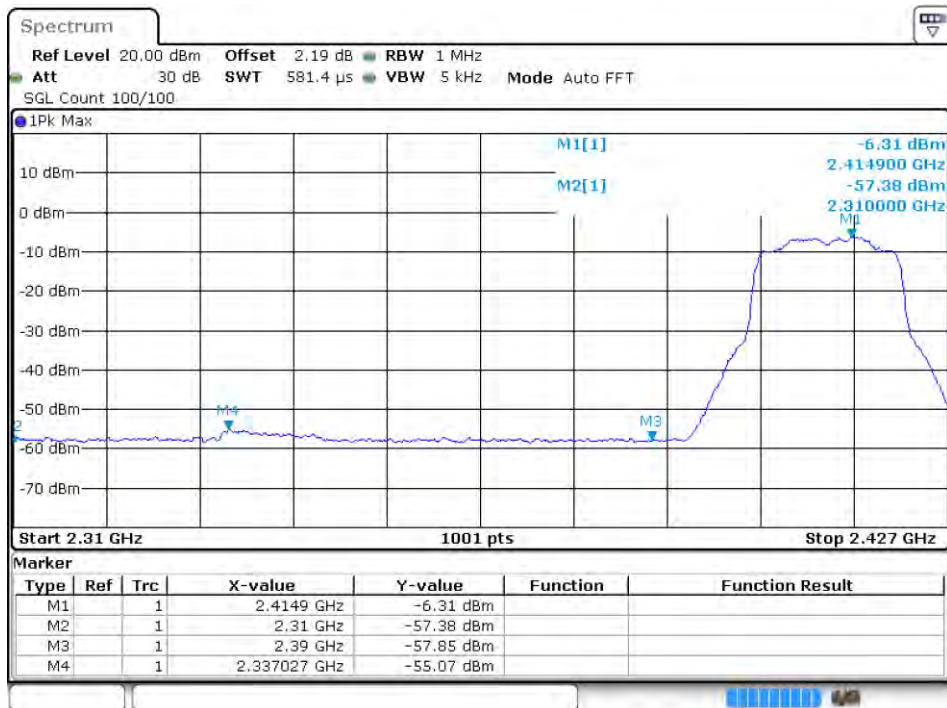
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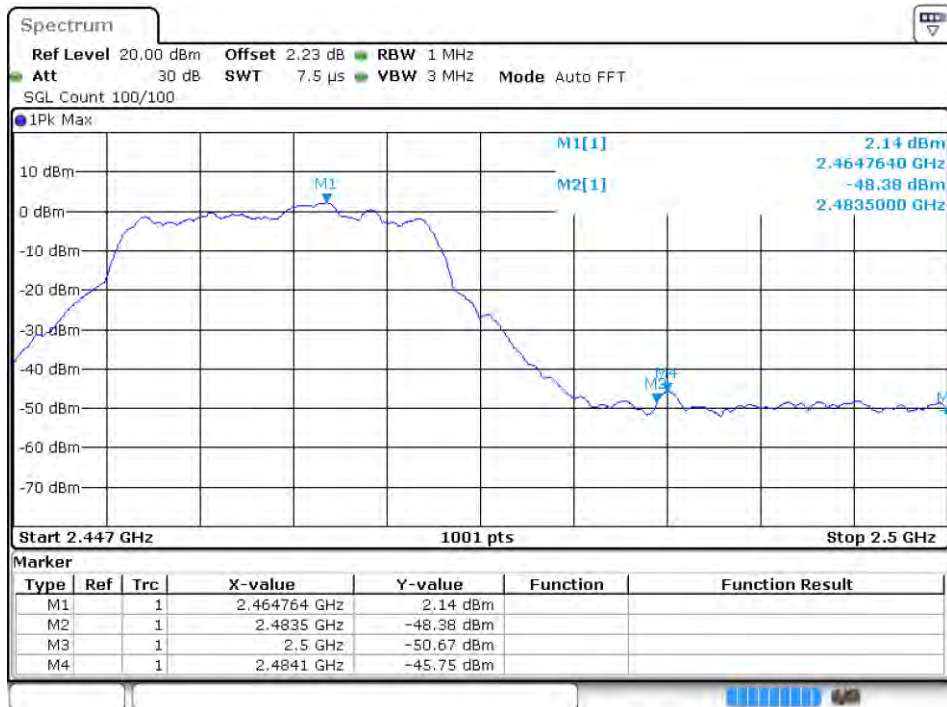
Restrict Band NVNT n20 2412MHz Ant1 Peak



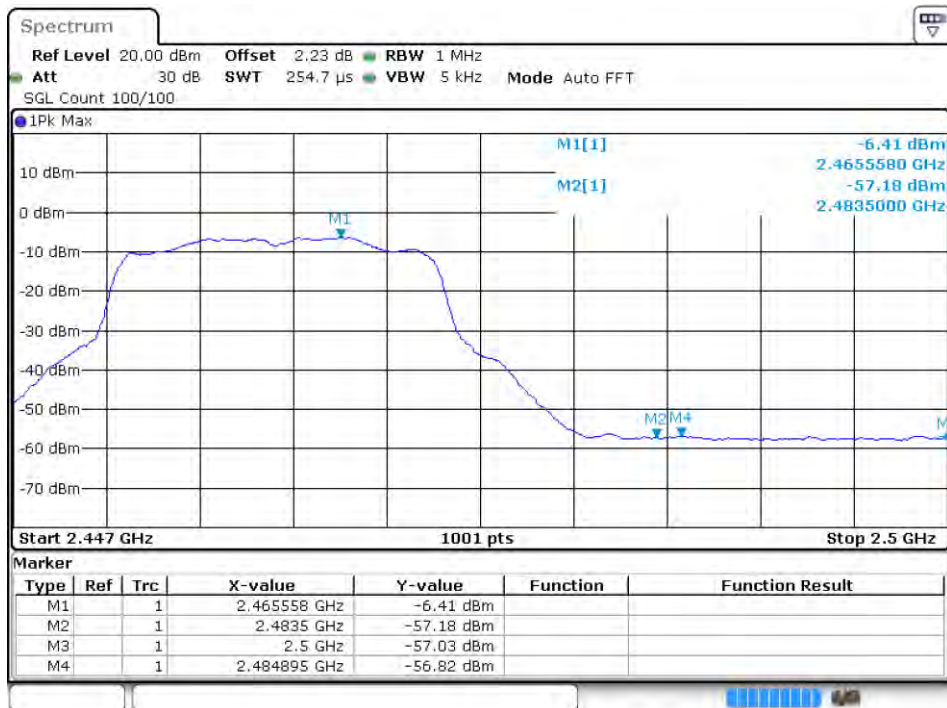
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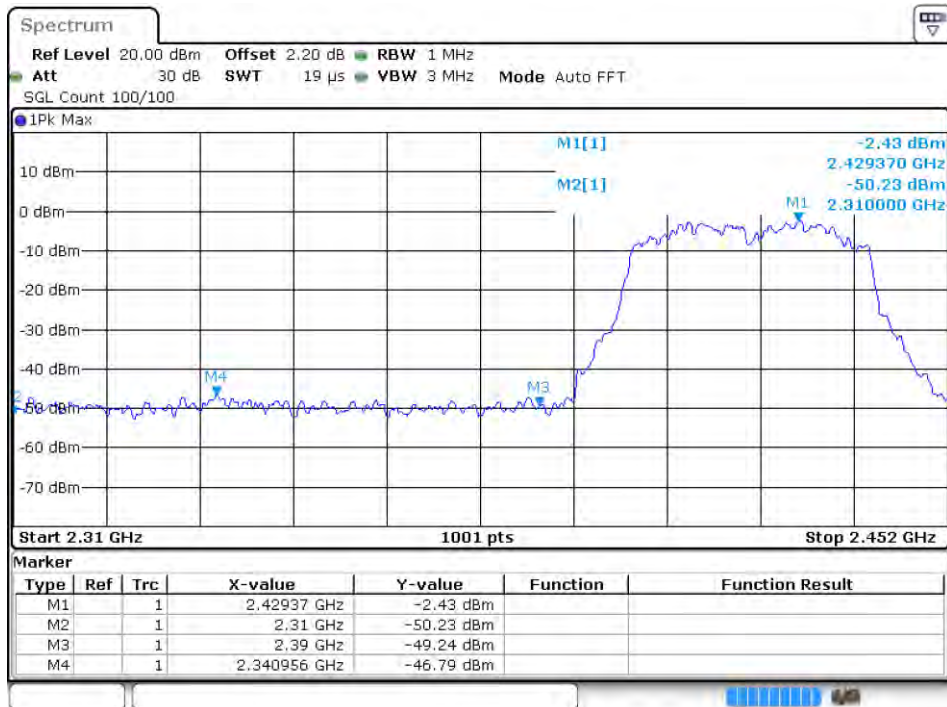
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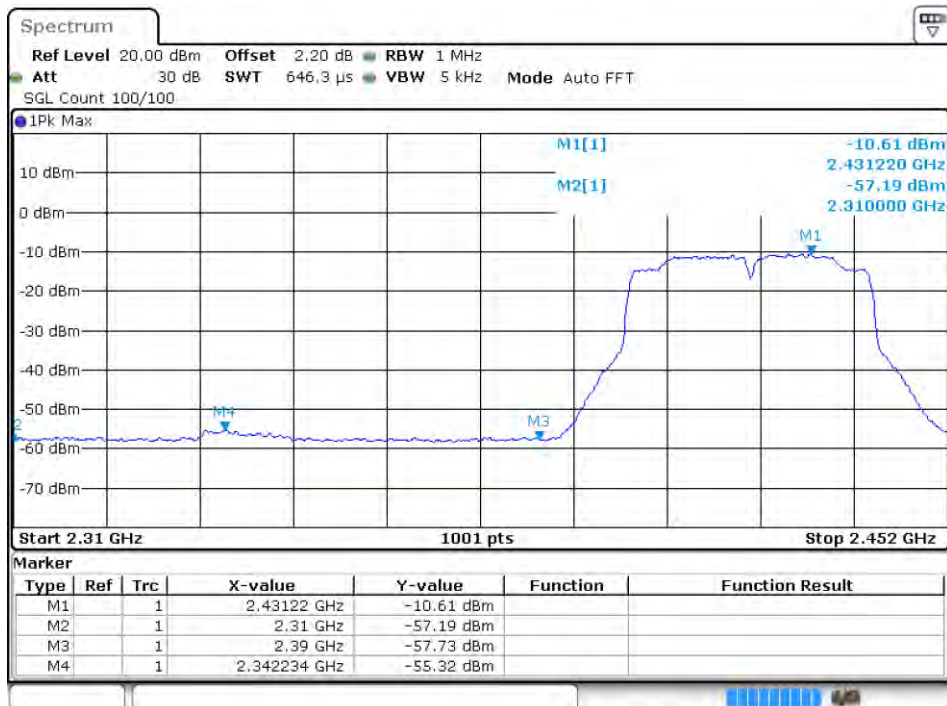
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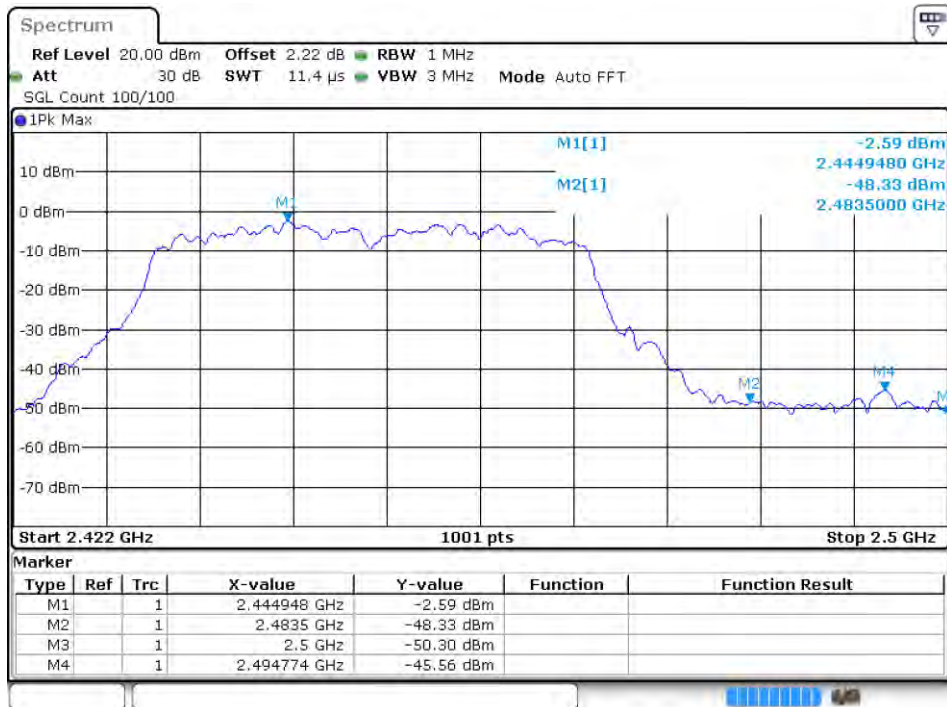
Restrict Band NVNT n40 2422MHz Ant1 Peak



Restrict Band NVNT n40 2422MHz Ant1 Average



Restrict Band NVNT n40 2452MHz Ant1 Peak



Restrict Band NVNT n40 2452MHz Ant1 Average

