Appendix: 2.4G WIFI of module 1

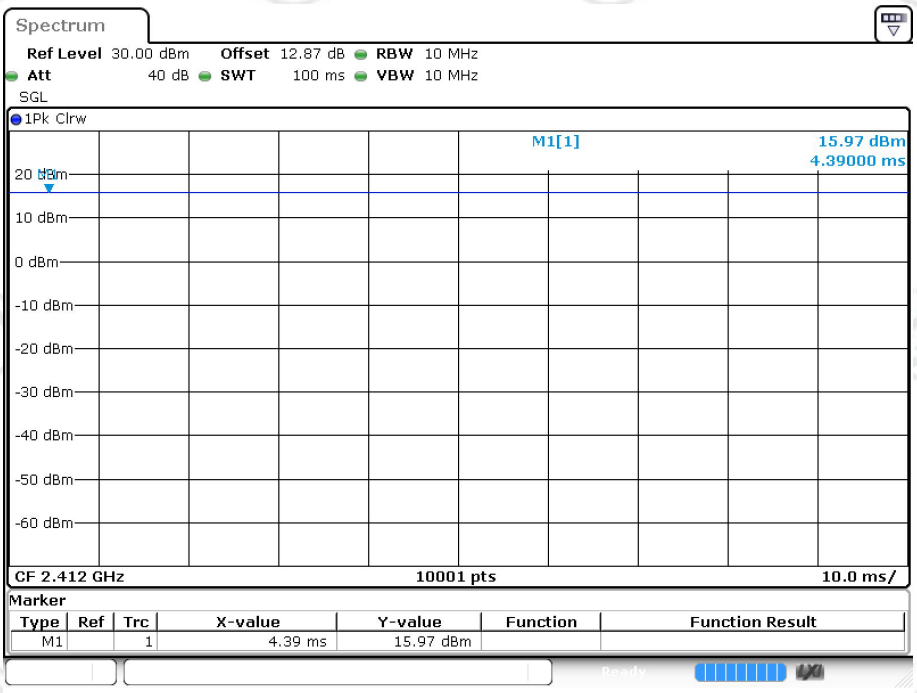
Contents

Duty Cycle

Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	100	0	0
NVNT	b	2437	Ant1	100	0	0
NVNT	b	2462	Ant1	100	0	0
NVNT	g	2412	Ant1	100	0	0
NVNT	g	2437	Ant1	100	0	0
NVNT	g	2462	Ant1	100	0	0
NVNT	n20	2412	Ant1	100	0	0
NVNT	n20	2437	Ant1	100	0	0
NVNT	n20	2462	Ant1	100	0	0
NVNT	n40	2422	Ant1	100	0	0
NVNT	n40	2437	Ant1	100	0	0
NVNT	n40	2452	Ant1	100	0	0

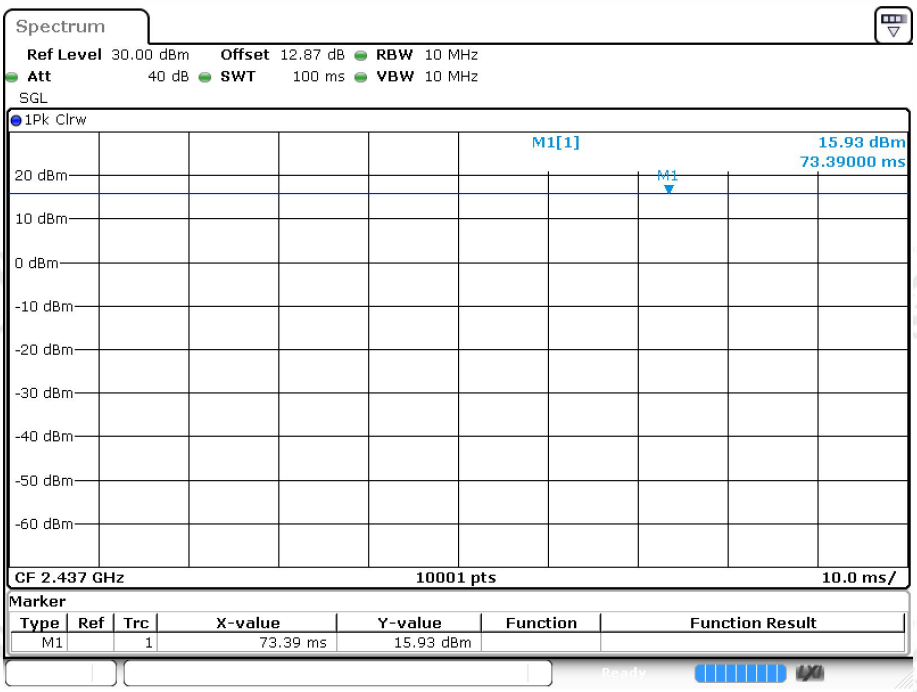
Test Graphs

Duty Cycle NVNT b 2412MHz Ant1



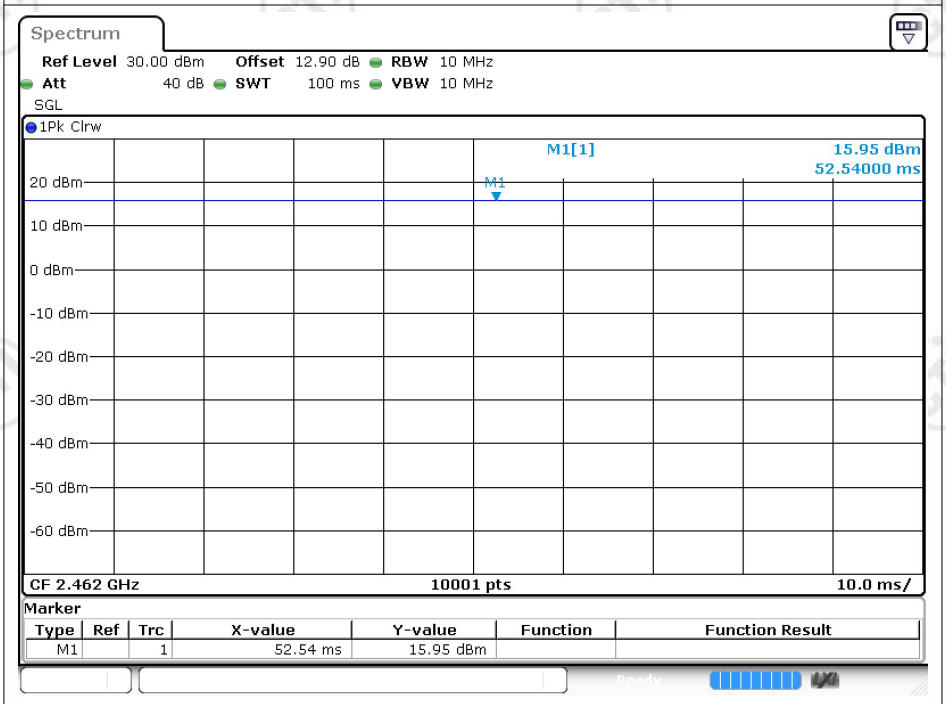
Date: 10.OCT.2022 02:59:06

Duty Cycle NVNT b 2437MHz Ant1



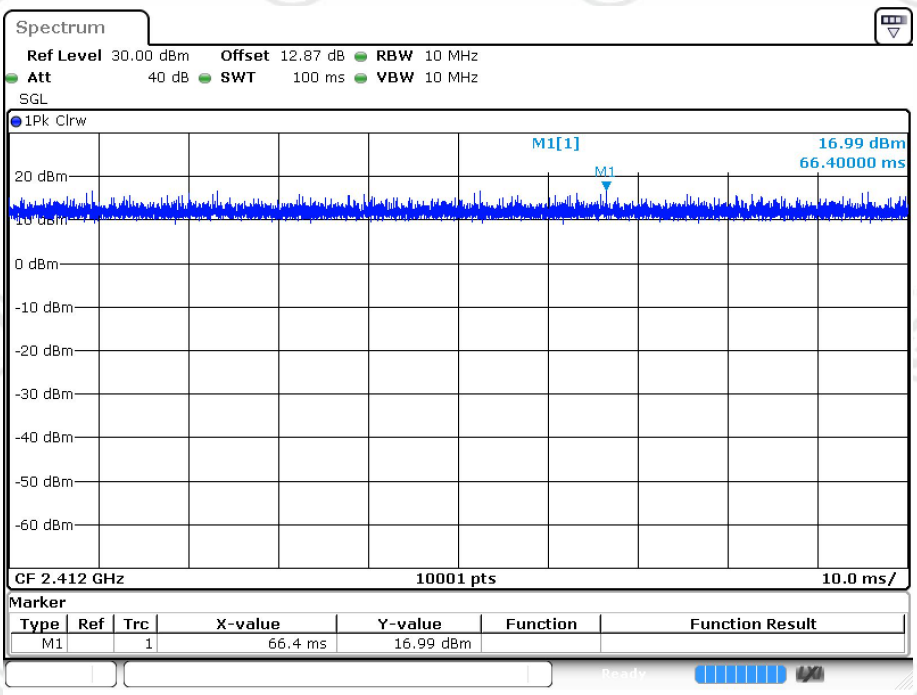
Date: 10.OCT.2022 03:00:49

Duty Cycle NVNT b 2462MHz Ant1



Date: 10.OCT.2022 03:04:28

Duty Cycle NVNT g 2412MHz Ant1



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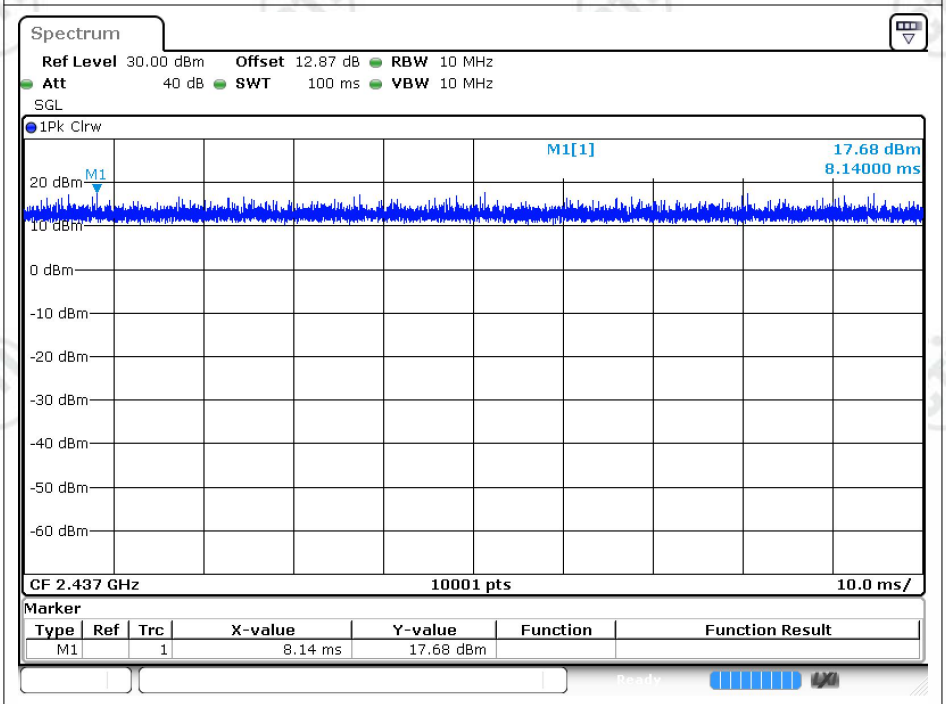
Duty Cycle NVNT g 2437MHz Ant1



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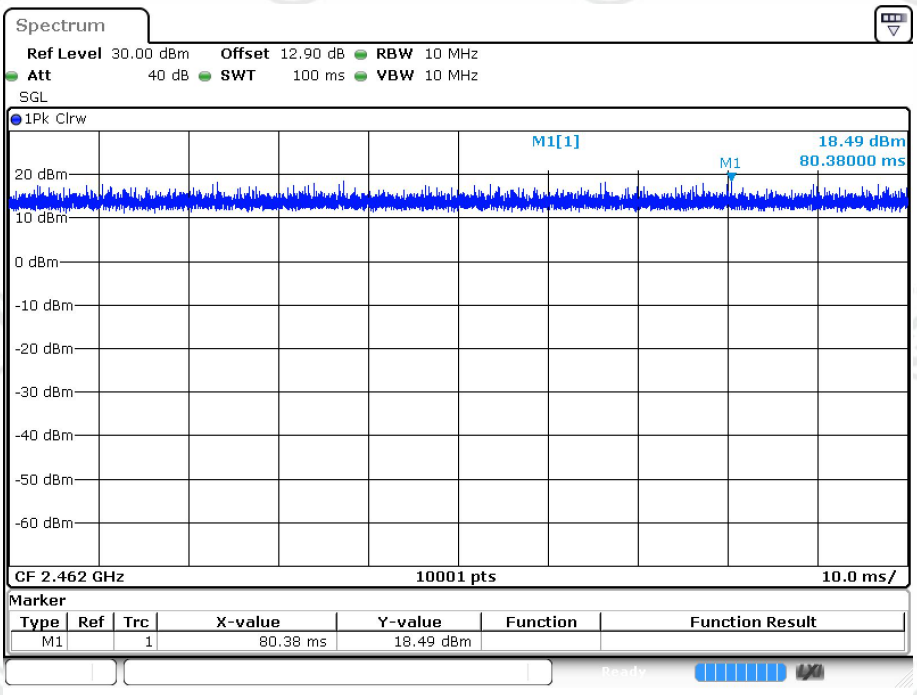
Duty Cycle NVNT g 2462MHz Ant1



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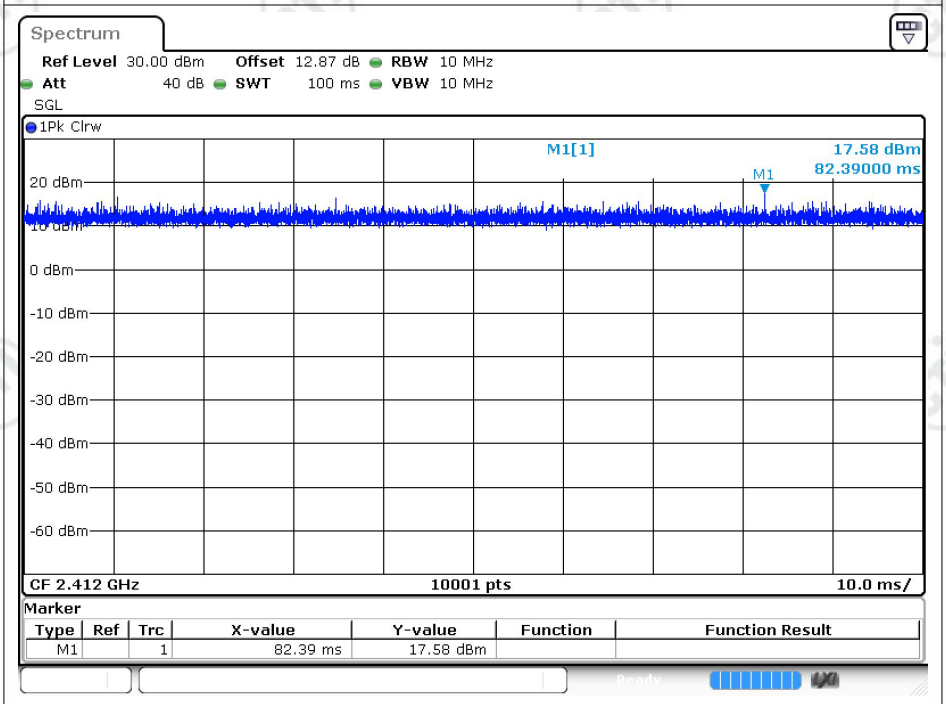
Duty Cycle NVNT n20 2412MHz Ant1



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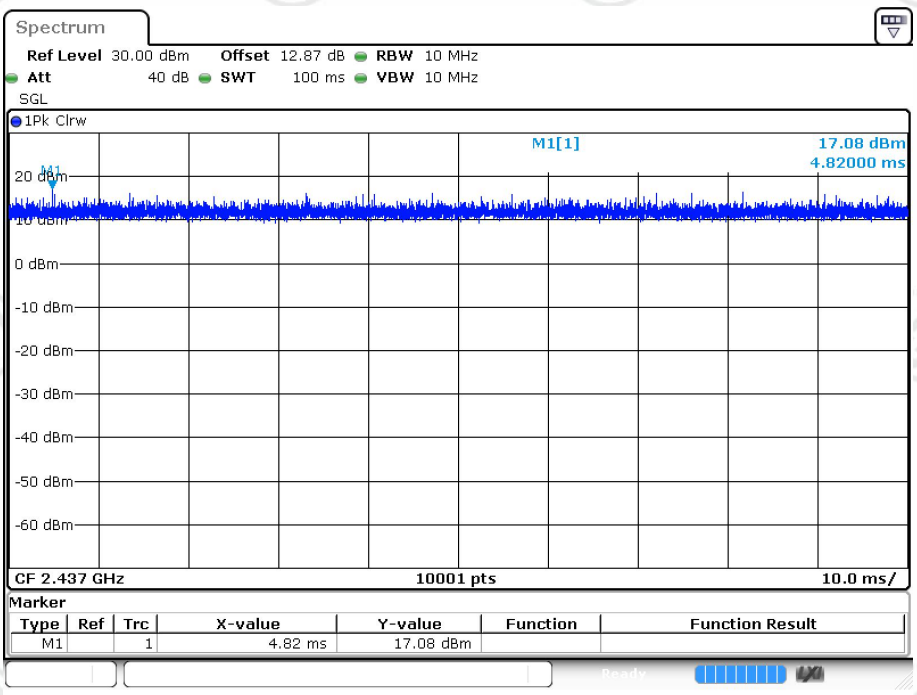
Duty Cycle NVNT n20 2437MHz Ant1



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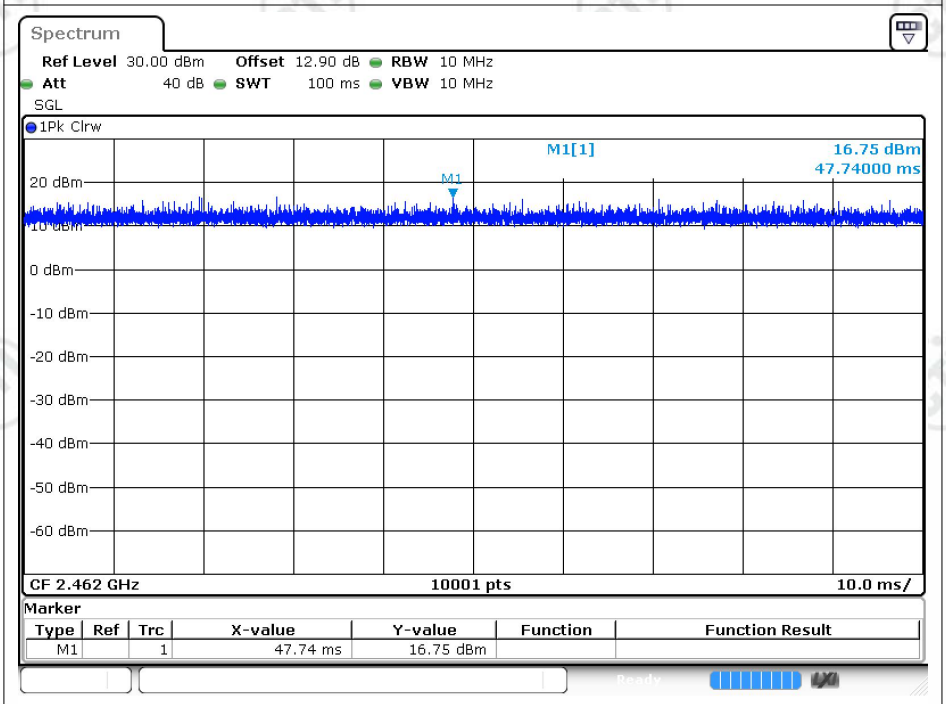
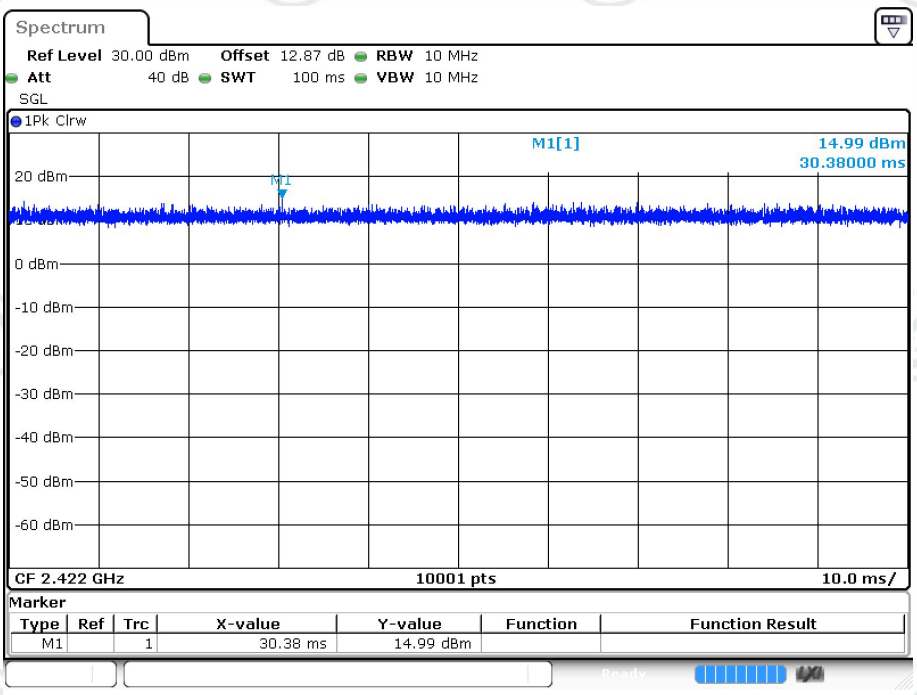
Duty Cycle NVNT n20 2462MHz Ant1



Date: 10.OCT.2022 03:31:14

Duty Cycle NVNT n40 2422MHz Ant1



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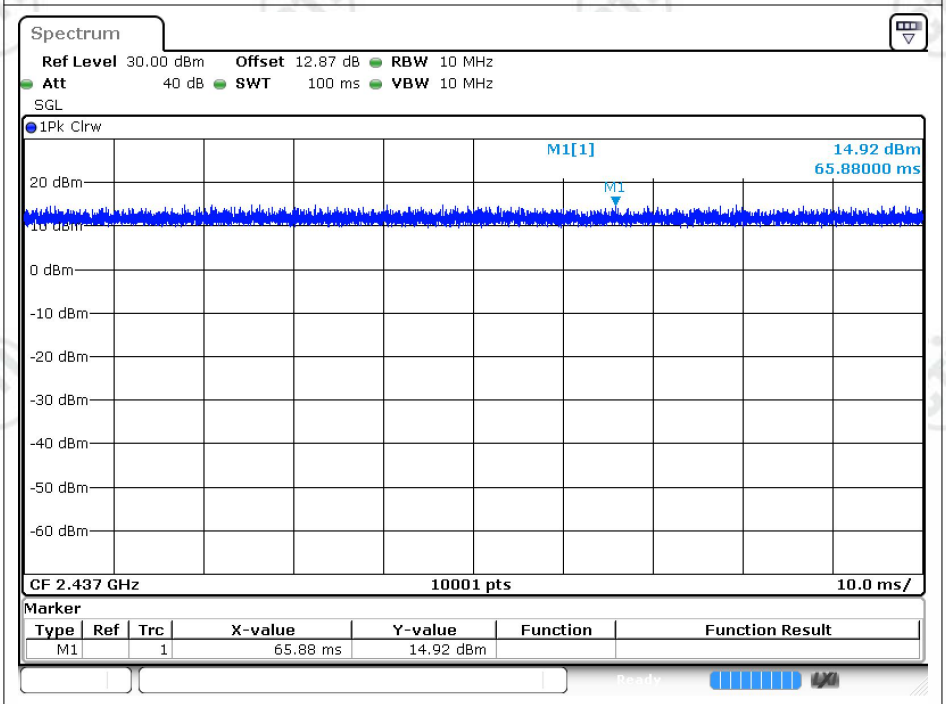
Duty Cycle NVNT n40 2437MHz Ant1



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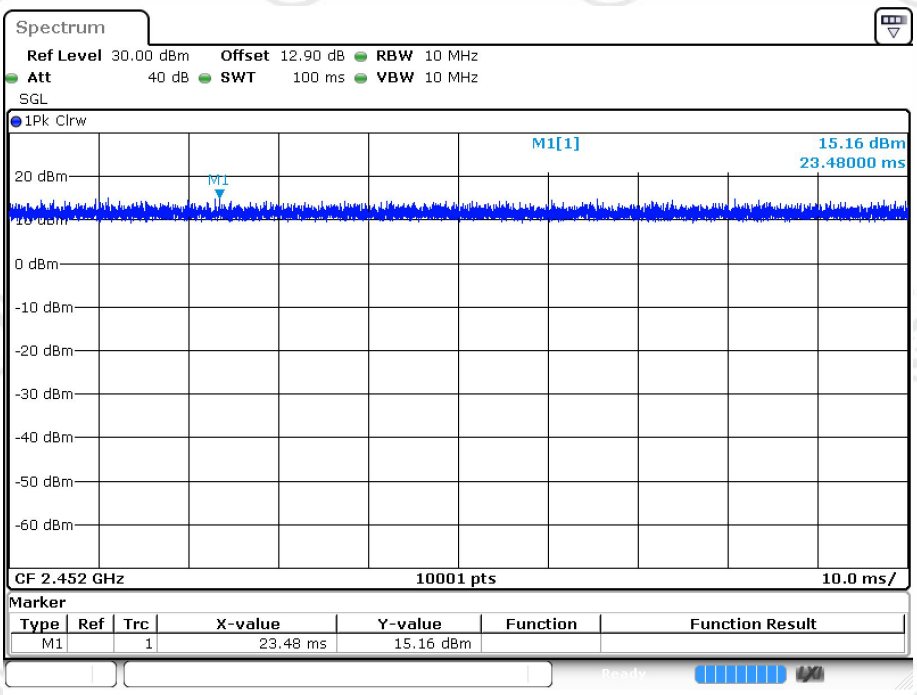
Duty Cycle NVNT n40 2452MHz Ant1



Date: 10.OCT.2022 03:39:40

Maximum Peak Conducted Output Power

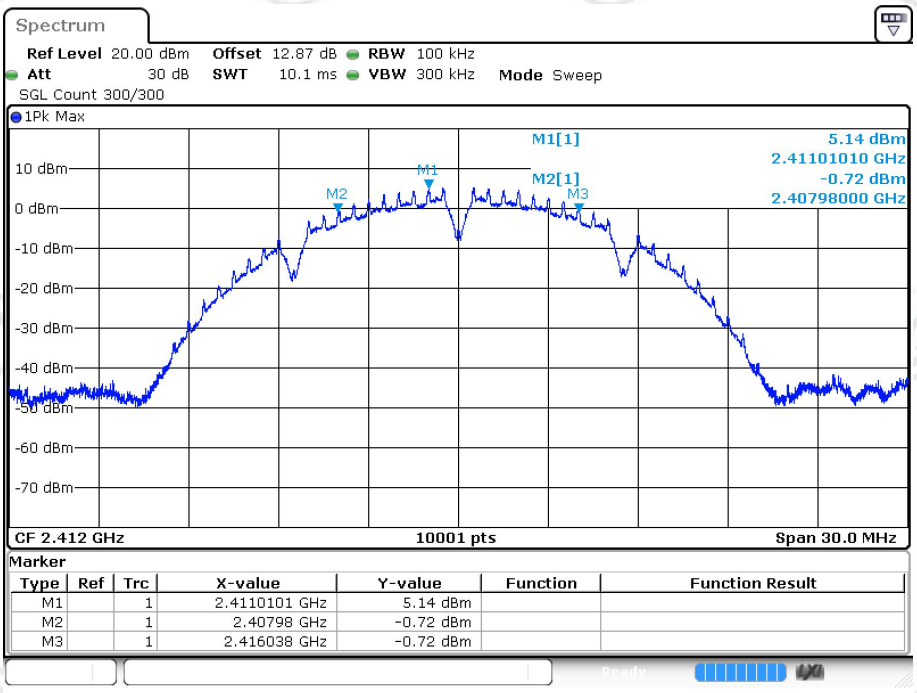
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	16.55	0	16.55	30	Pass
NVNT	b	2437	Ant1	16.5	0	16.5	30	Pass
NVNT	b	2462	Ant1	16.5	0	16.5	30	Pass
NVNT	g	2412	Ant1	15.19	0	15.19	30	Pass
NVNT	g	2437	Ant1	15.66	0	15.66	30	Pass
NVNT	g	2462	Ant1	15.73	0	15.73	30	Pass
NVNT	n20	2412	Ant1	15.09	0	15.09	30	Pass
NVNT	n20	2437	Ant1	15.03	0	15.03	30	Pass
NVNT	n20	2462	Ant1	15.07	0	15.07	30	Pass
NVNT	n40	2422	Ant1	14.08	0	14.08	30	Pass
NVNT	n40	2437	Ant1	14.02	0	14.02	30	Pass
NVNT	n40	2452	Ant1	14.76	0	14.76	30	Pass

-6dB Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.058	0.5	Pass
NVNT	b	2437	Ant1	8.061	0.5	Pass
NVNT	b	2462	Ant1	8.064	0.5	Pass
NVNT	g	2412	Ant1	16.347	0.5	Pass
NVNT	g	2437	Ant1	16.338	0.5	Pass
NVNT	g	2462	Ant1	16.323	0.5	Pass
NVNT	n20	2412	Ant1	17.571	0.5	Pass
NVNT	n20	2437	Ant1	17.577	0.5	Pass
NVNT	n20	2462	Ant1	17.574	0.5	Pass
NVNT	n40	2422	Ant1	36.048	0.5	Pass
NVNT	n40	2437	Ant1	35.916	0.5	Pass
NVNT	n40	2452	Ant1	36.054	0.5	Pass

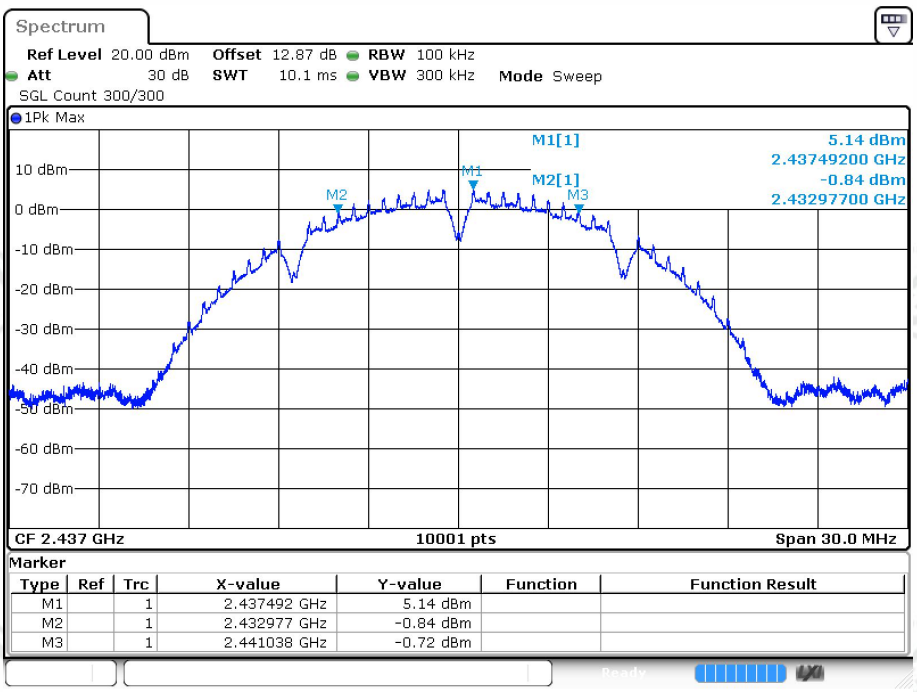
Test Graphs

-6dB Bandwidth NVNT b 2412MHz Ant1



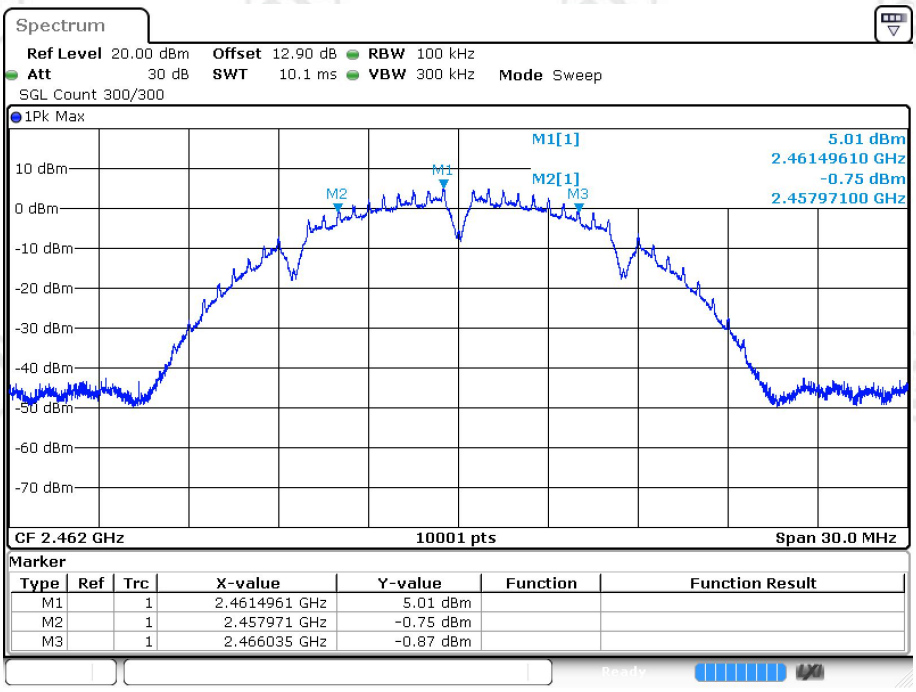
Date: 10.OCT.2022 02:59:41

-6dB Bandwidth NVNT b 2437MHz Ant1



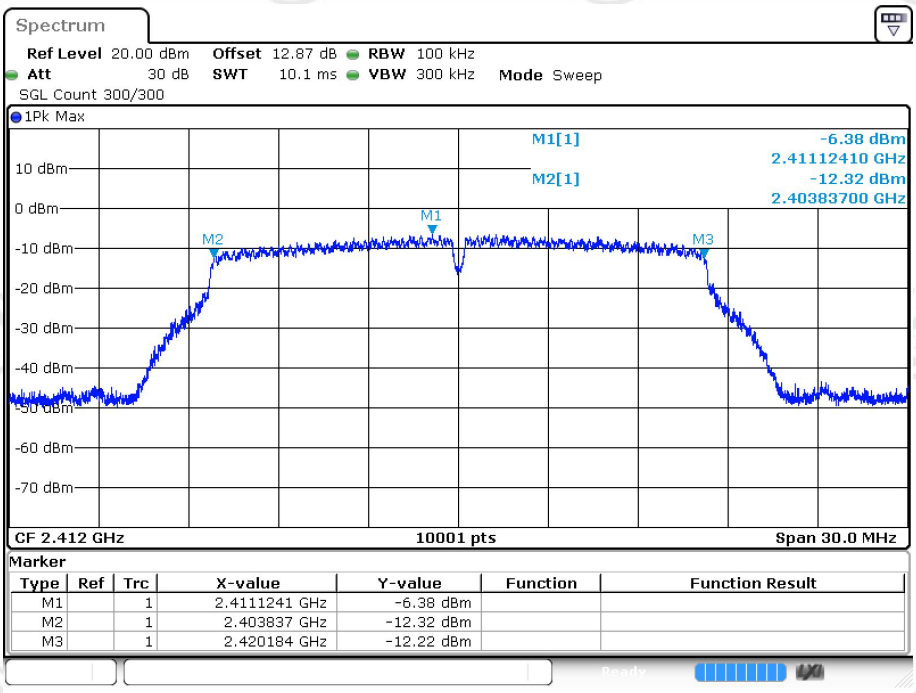
Date: 10.OCT.2022 03:01:27

-6dB Bandwidth NVNT b 2462MHz Ant1



Date: 10.OCT.2022 03:05:09

-6dB Bandwidth NVNT g 2412MHz Ant1



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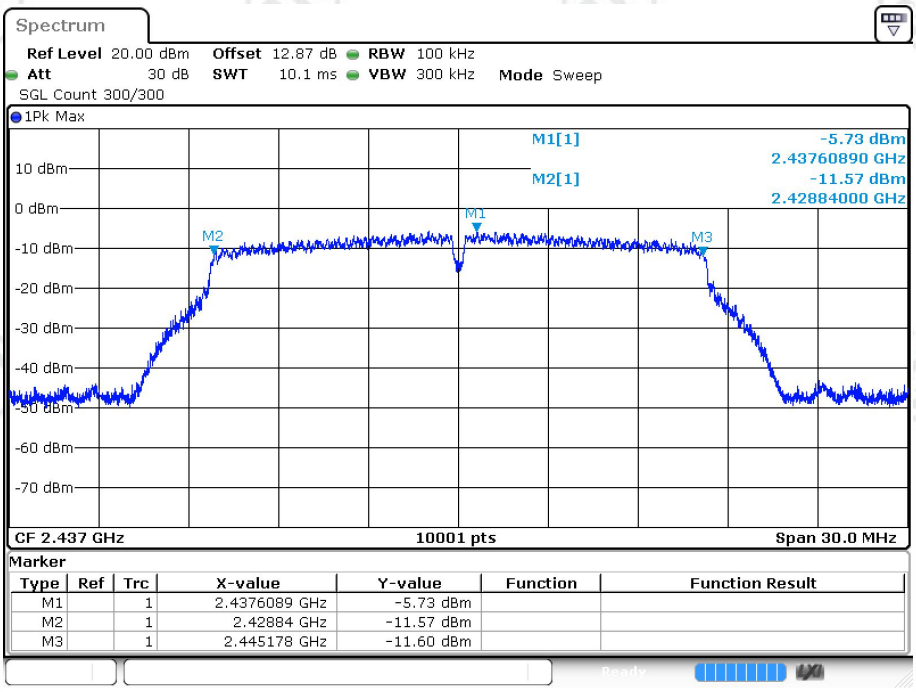
-6dB Bandwidth NVNT g 2437MHz Ant1



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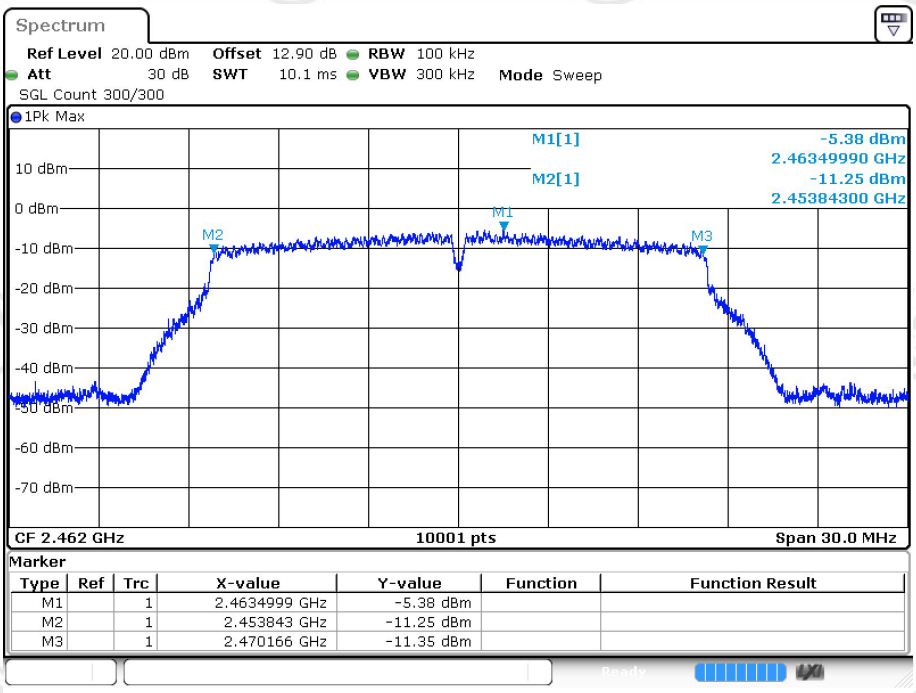
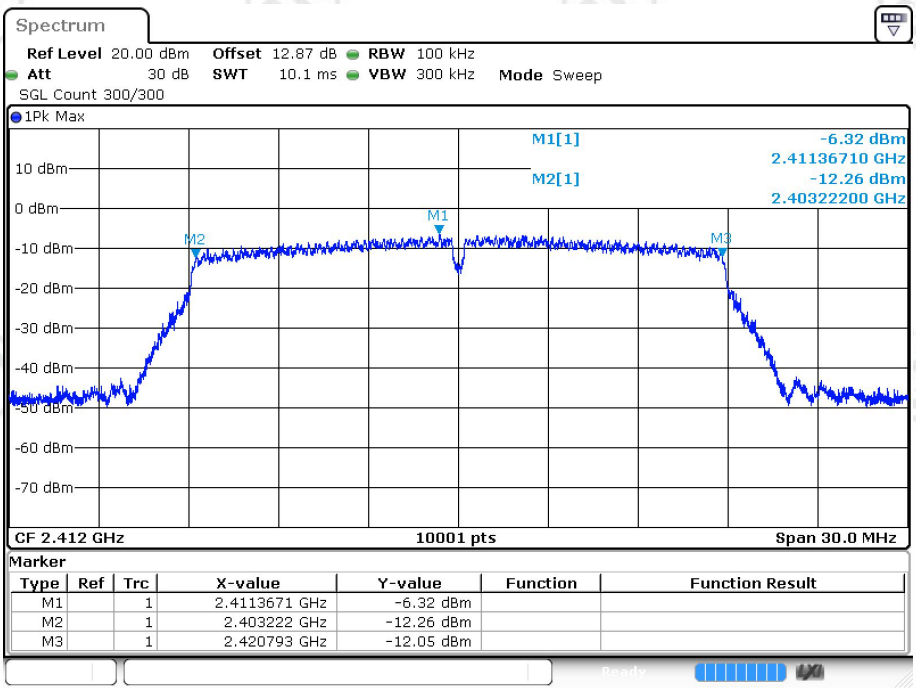
-6dB Bandwidth NVNT g 2462MHz Ant1



Date: 10.OCT.2022 03:24:19

-6dB Bandwidth NVNT n20 2412MHz Ant1



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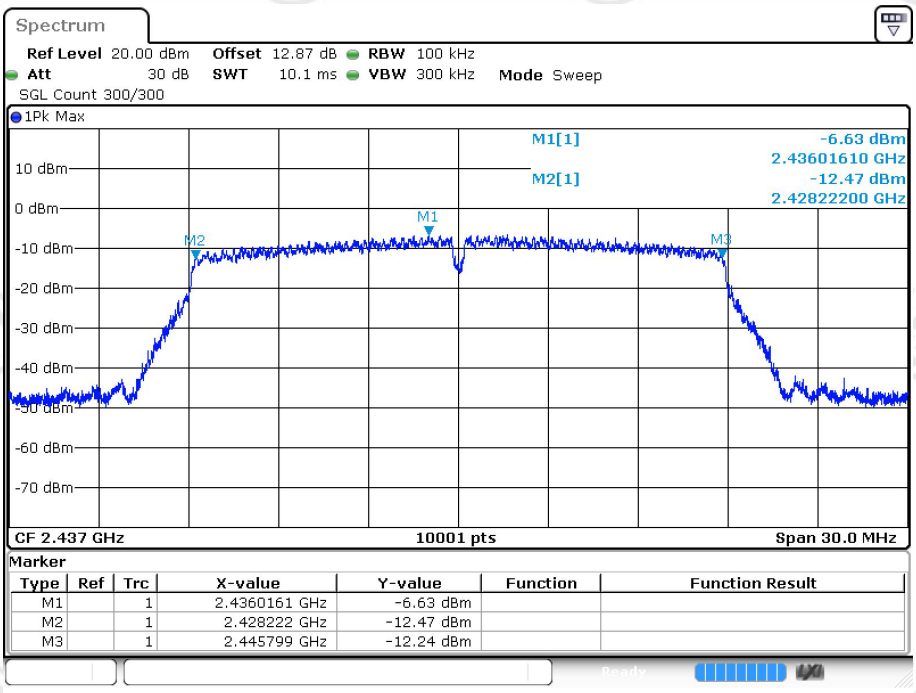
-6dB Bandwidth NVNT n20 2437MHz Ant1



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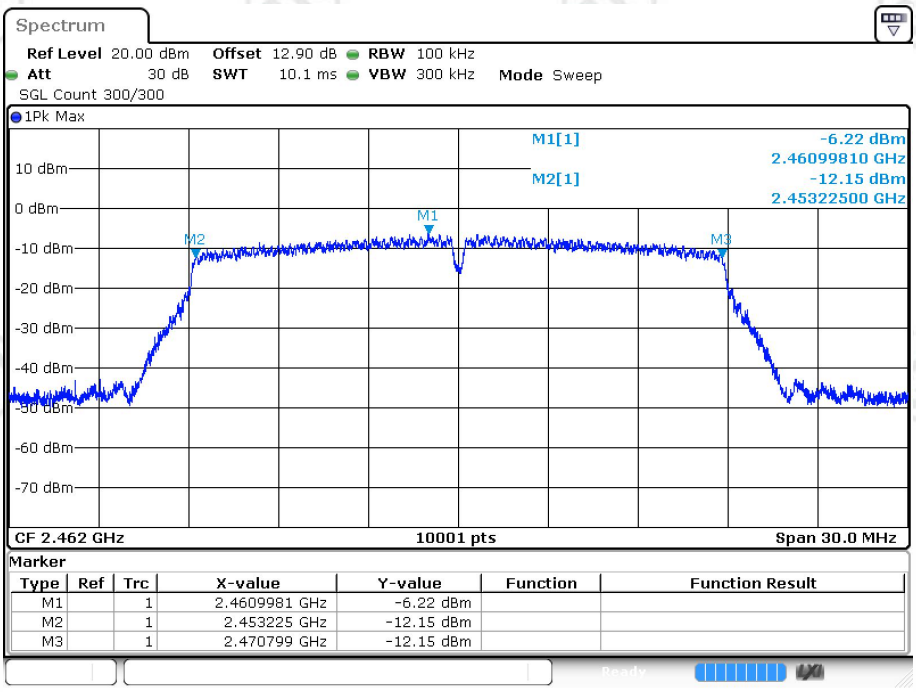
-6dB Bandwidth NVNT n20 2462MHz Ant1



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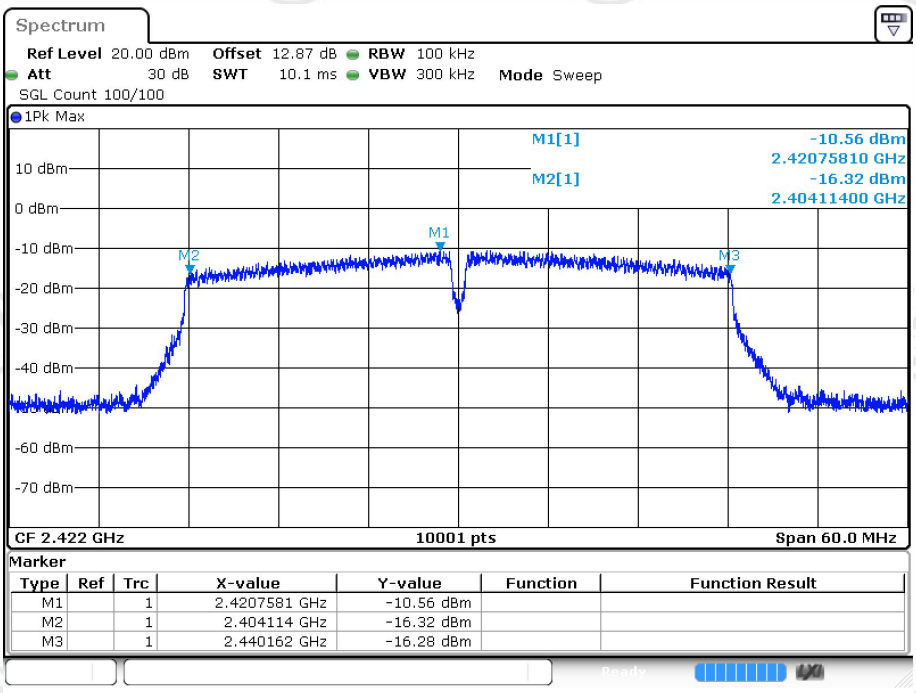
-6dB Bandwidth NVNT n40 2422MHz Ant1



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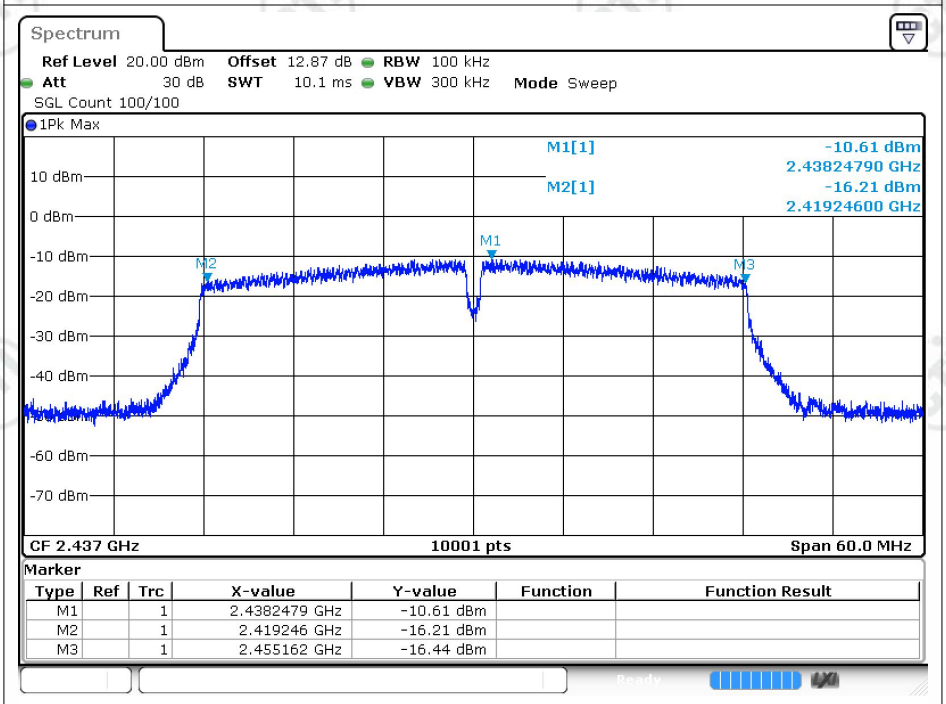
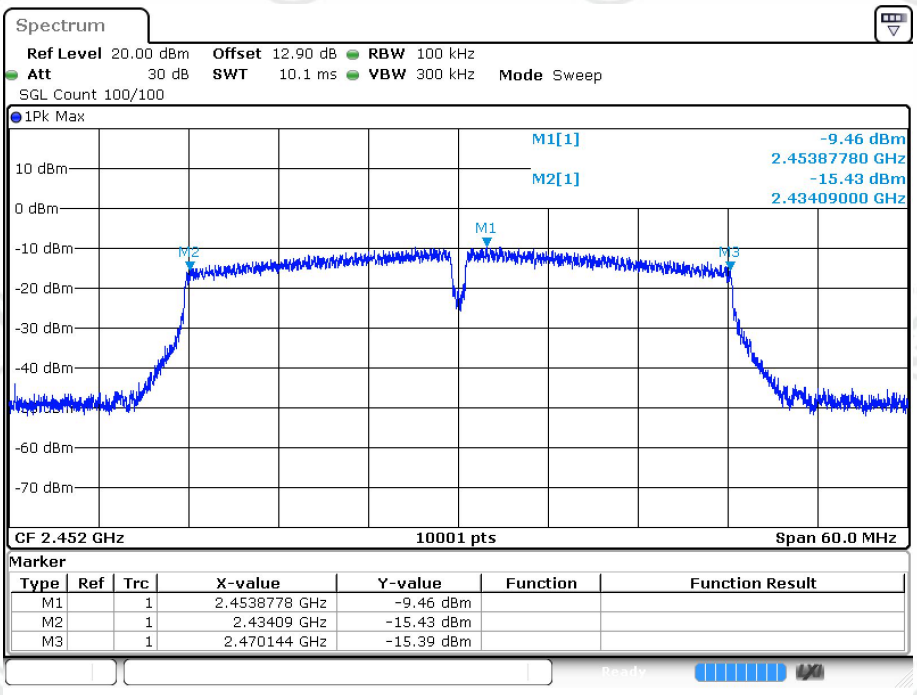
-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 10.OCT.2022 03:38:28

-6dB Bandwidth NVNT n40 2452MHz Ant1



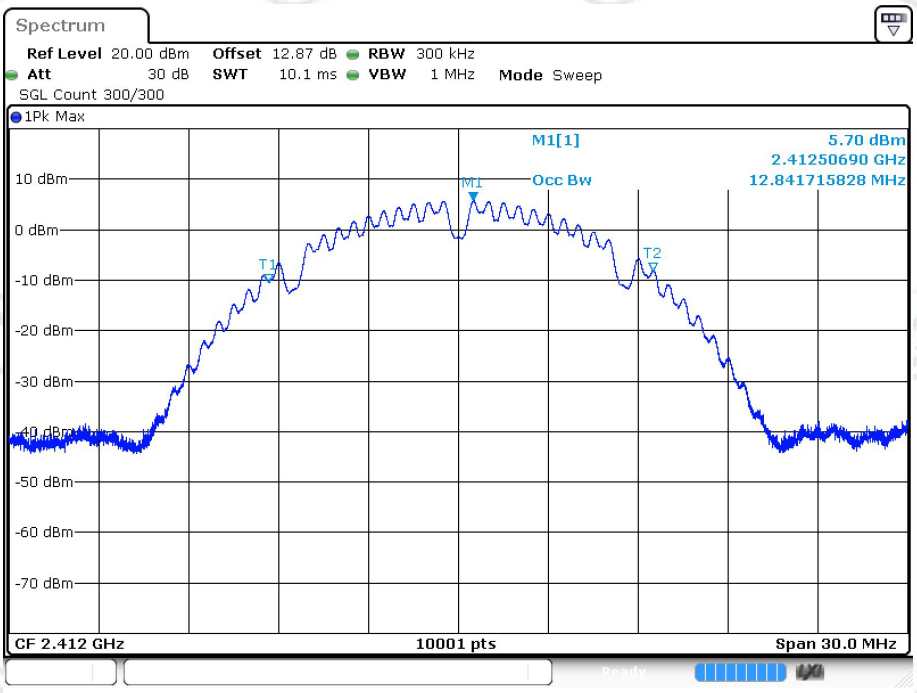
Date: 10.OCT.2022 03:41:36

Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.842
NVNT	b	2437	Ant1	12.839
NVNT	b	2462	Ant1	12.848
NVNT	g	2412	Ant1	16.645
NVNT	g	2437	Ant1	16.636
NVNT	g	2462	Ant1	16.645
NVNT	n20	2412	Ant1	17.689
NVNT	n20	2437	Ant1	17.68
NVNT	n20	2462	Ant1	17.683
NVNT	n40	2422	Ant1	36.002
NVNT	n40	2437	Ant1	35.99
NVNT	n40	2452	Ant1	35.984

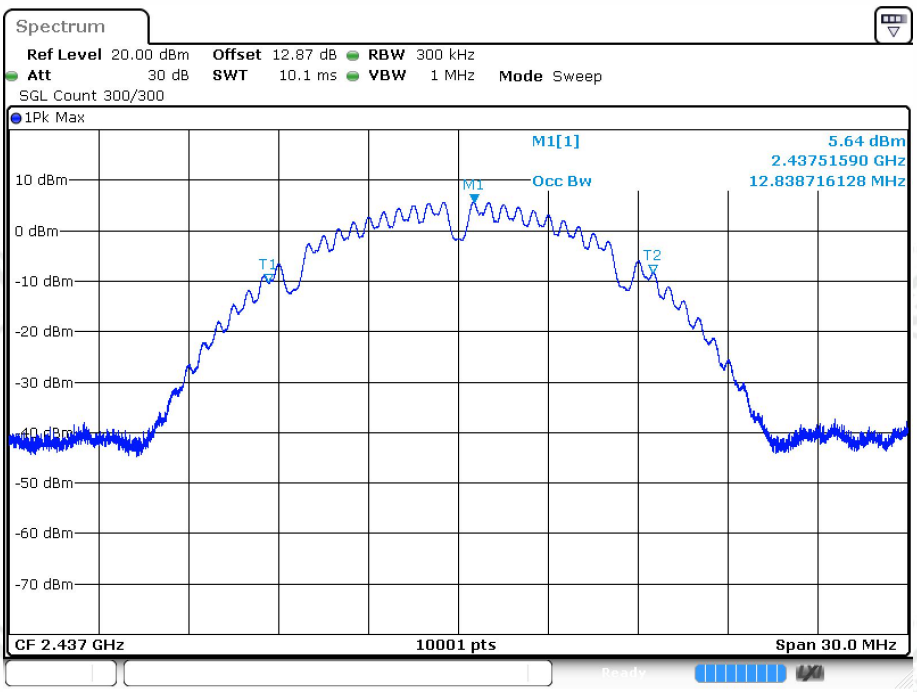
Test Graphs

OBW NVNT b 2412MHz Ant1



Date: 10.OCT.2022 02:59:29

OBW NVNT b 2437MHz Ant1



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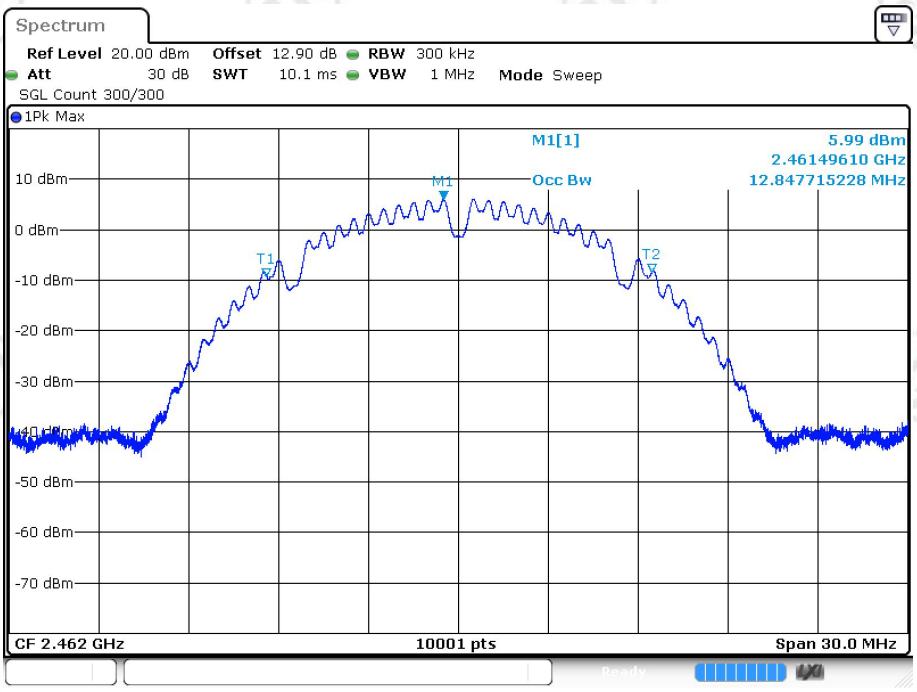
OBW NVNT b 2462MHz Ant1



OBW NVNT g 2412MHz Ant1