

Appendix A for 2.4GWIFI Test Data

Product Name: Notebook

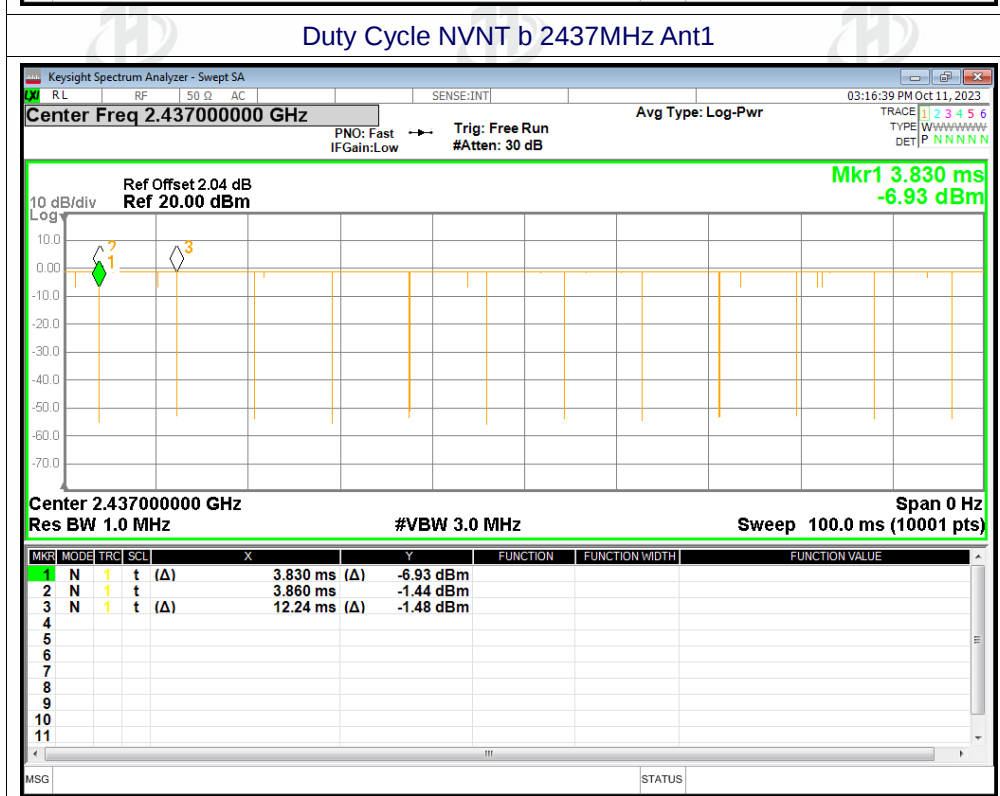
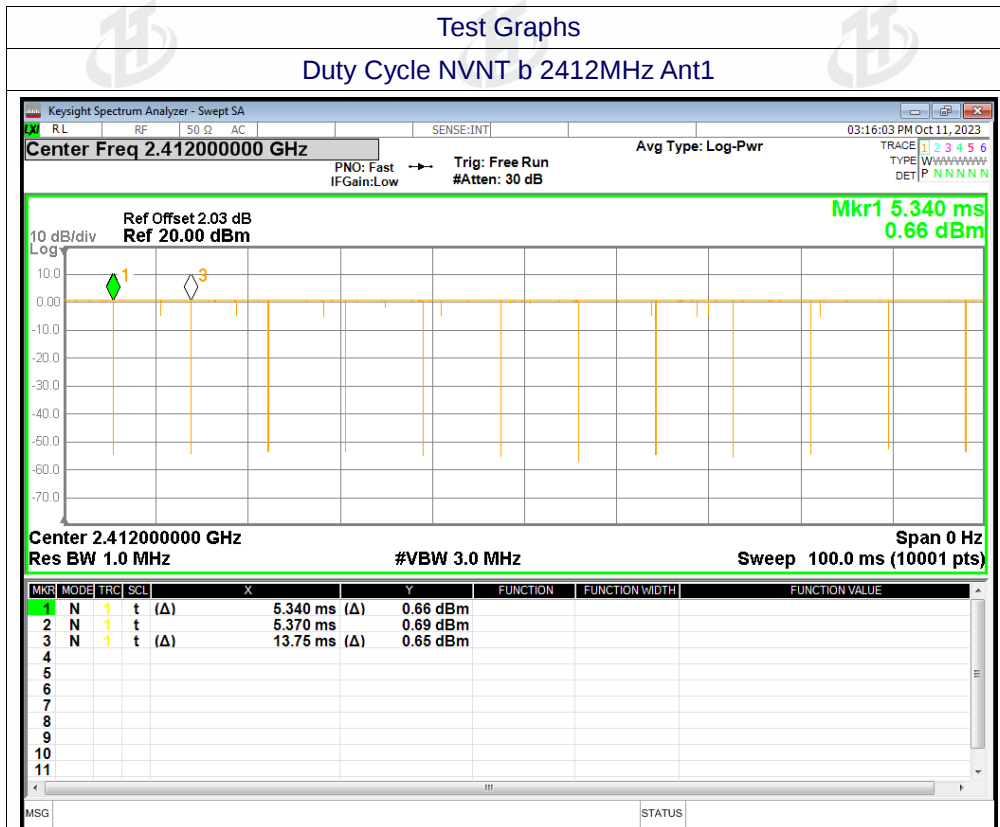
Test Model: A16

Environmental Conditions

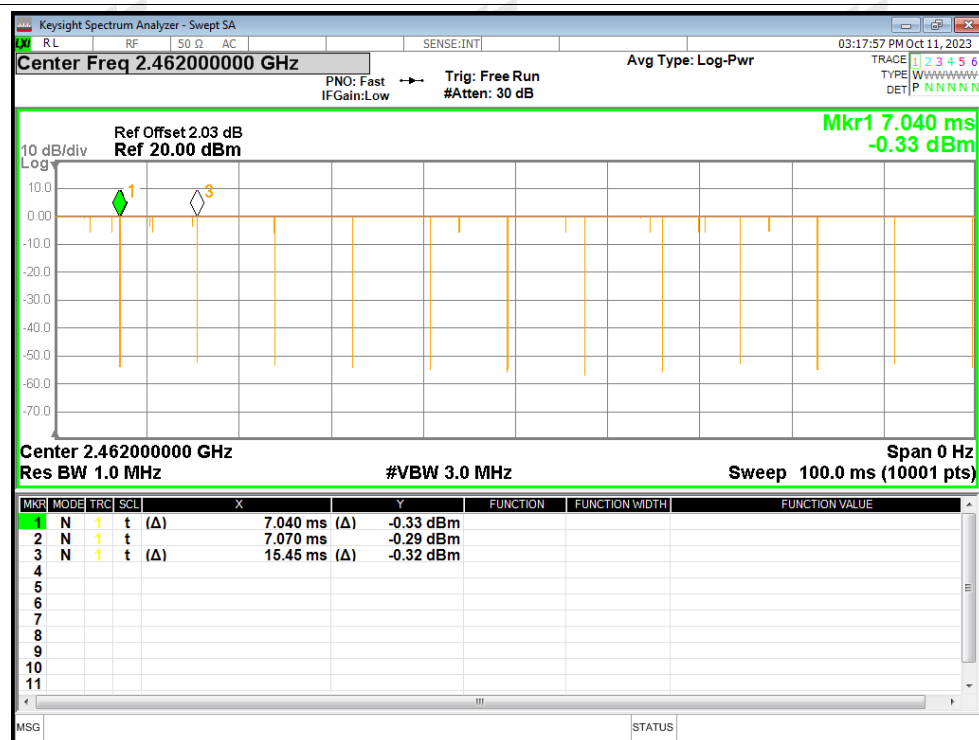
Temperature:	23.8℃
Relative Humidity:	52%
ATM Pressure:	101.0 kPa
Test Engineer:	Leon Li
Supervised by:	Baret Wu

A1. Duty Cycle

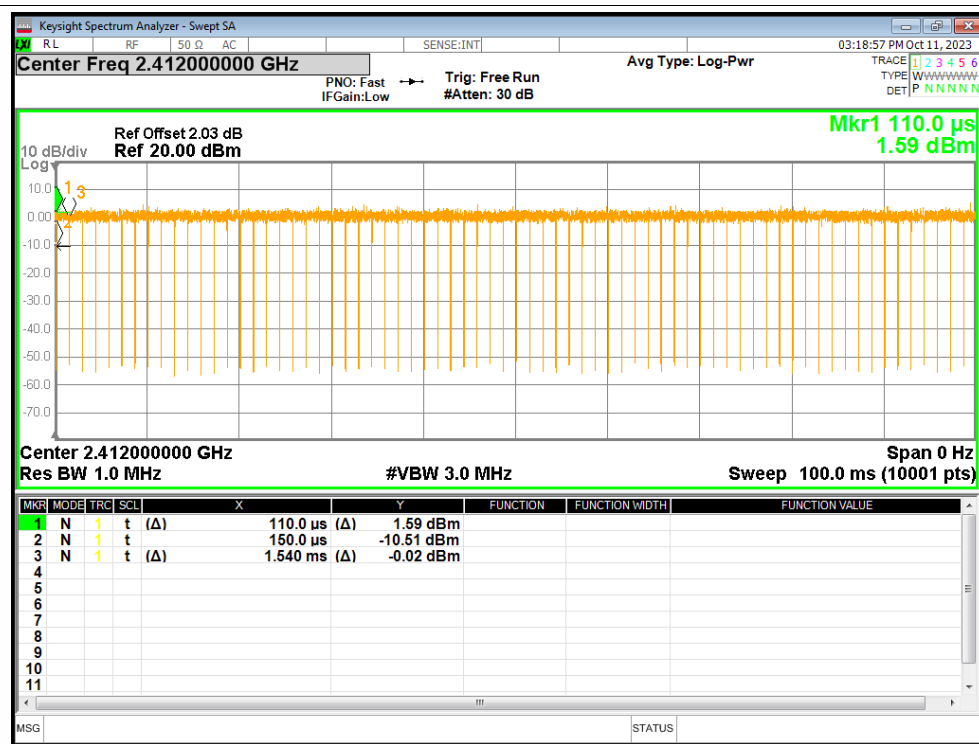
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	98.99	0
NVNT	b	2437	Ant1	98.96	0
NVNT	b	2462	Ant1	98.99	0
NVNT	b	2412	Ant2	98.96	0
NVNT	b	2437	Ant2	98.99	0
NVNT	b	2462	Ant2	98.98	0
NVNT	g	2412	Ant1	98.87	0.12
NVNT	g	2437	Ant1	98.87	0.13
NVNT	g	2462	Ant1	98.87	0.1
NVNT	g	2412	Ant2	98.94	0.09
NVNT	g	2437	Ant2	98.94	0.1
NVNT	g	2462	Ant2	98.79	0.1
NVNT	n20	2412	Ant1	98.94	0.09
NVNT	n20	2437	Ant1	98.94	0.13
NVNT	n20	2462	Ant1	98.94	0.1
NVNT	n20	2412	Ant2	98.94	0.09
NVNT	n20	2437	Ant2	98.79	0.13
NVNT	n20	2462	Ant2	98.94	0.13
NVNT	n40	2422	Ant1	98.78	0.2
NVNT	n40	2437	Ant1	98.78	0.26
NVNT	n40	2452	Ant1	98.78	0.2
NVNT	n40	2422	Ant2	98.78	0.26
NVNT	n40	2437	Ant2	98.78	0.2
NVNT	n40	2452	Ant2	98.78	0.2



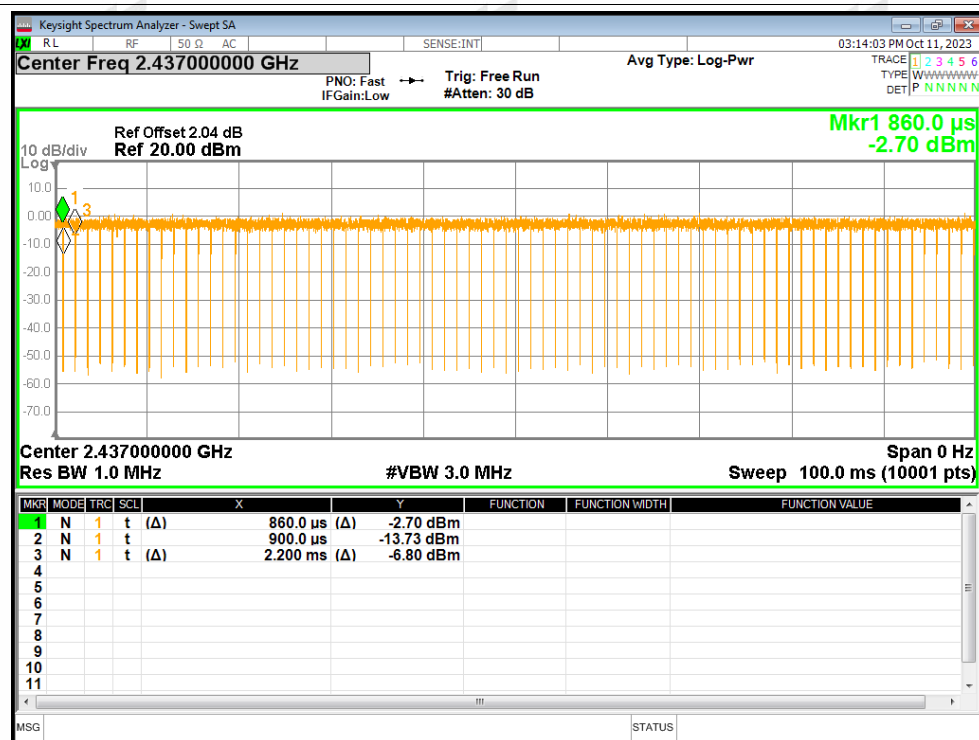
Duty Cycle NVNT b 2462MHz Ant1



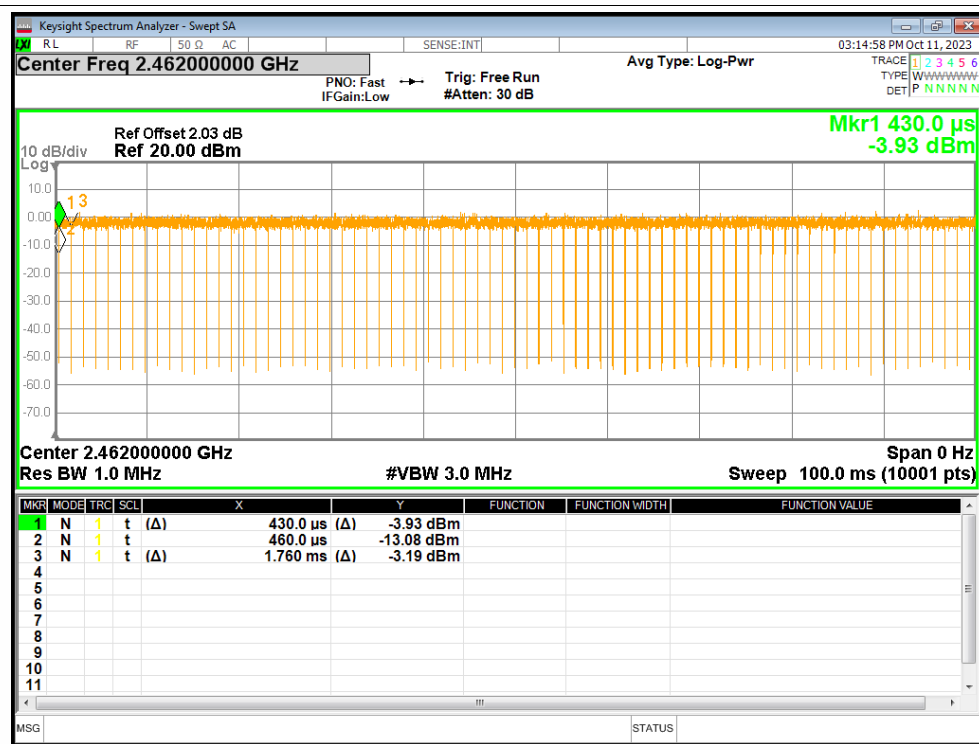
Duty Cycle NVNT g 2412MHz Ant1



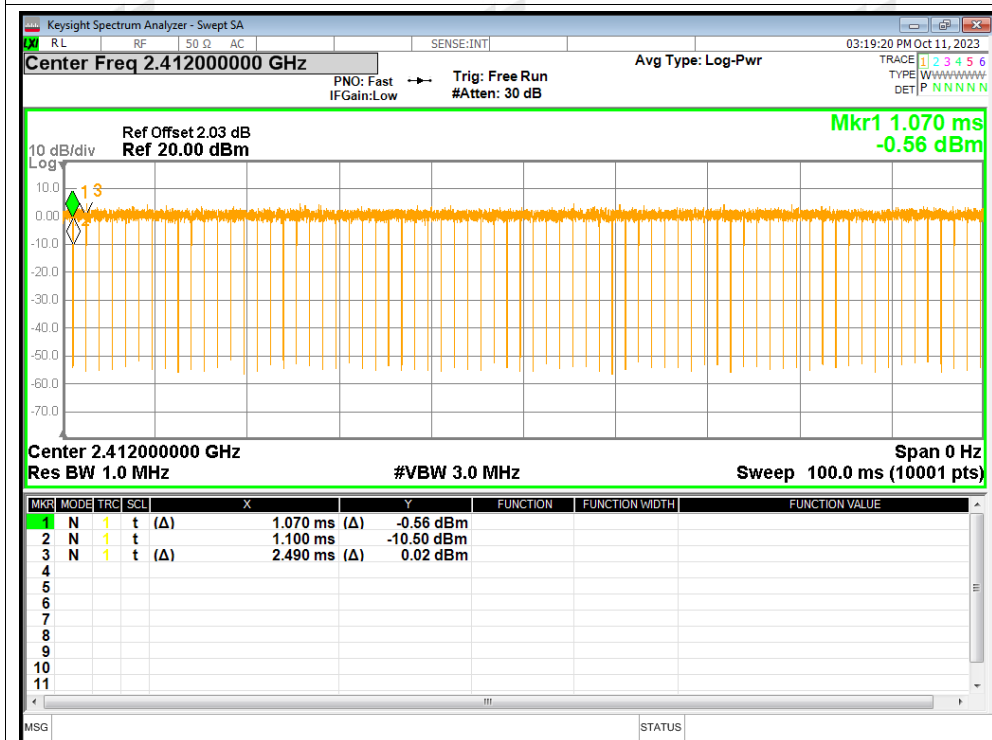
Duty Cycle NVNT g 2437MHz Ant1



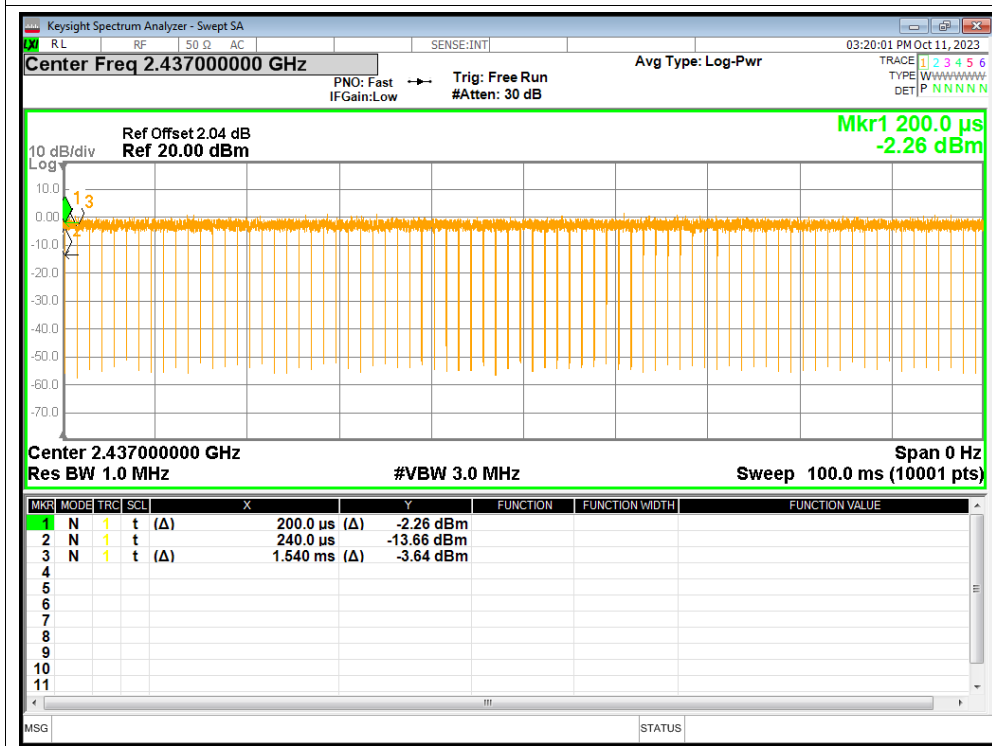
Duty Cycle NVNT g 2462MHz Ant1



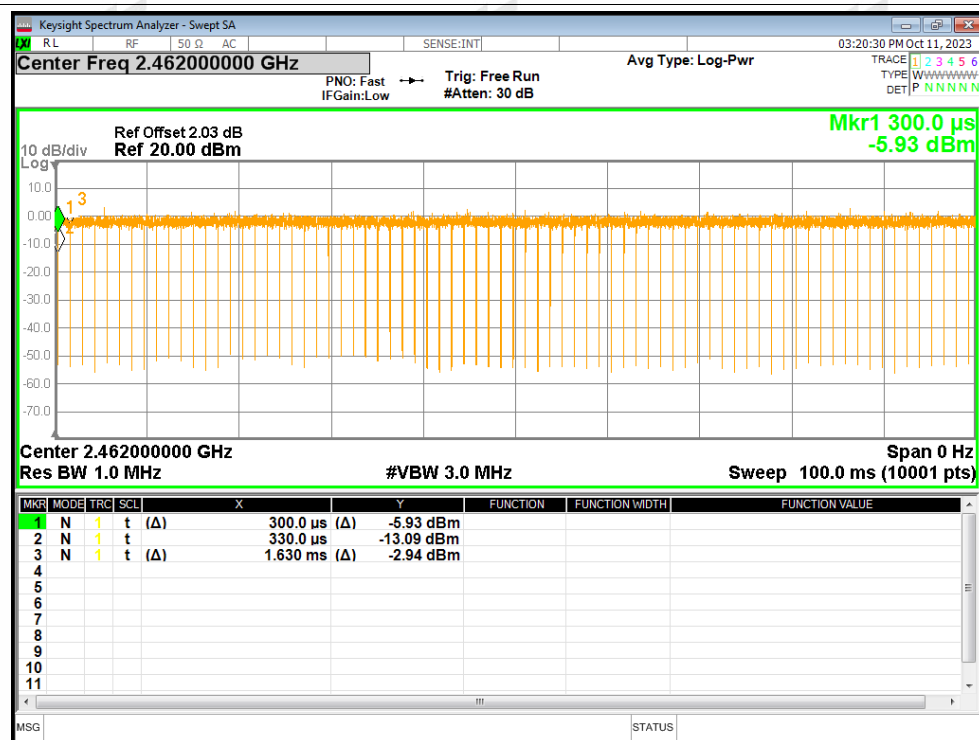
Duty Cycle NVNT n20 2412MHz Ant1



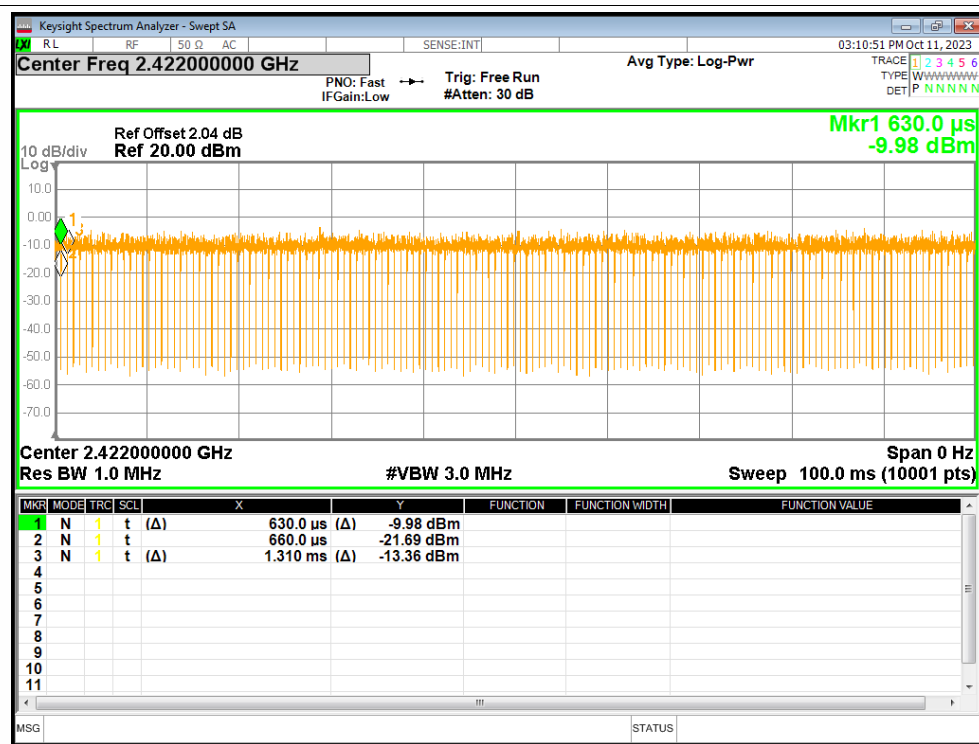
Duty Cycle NVNT n20 2437MHz Ant1

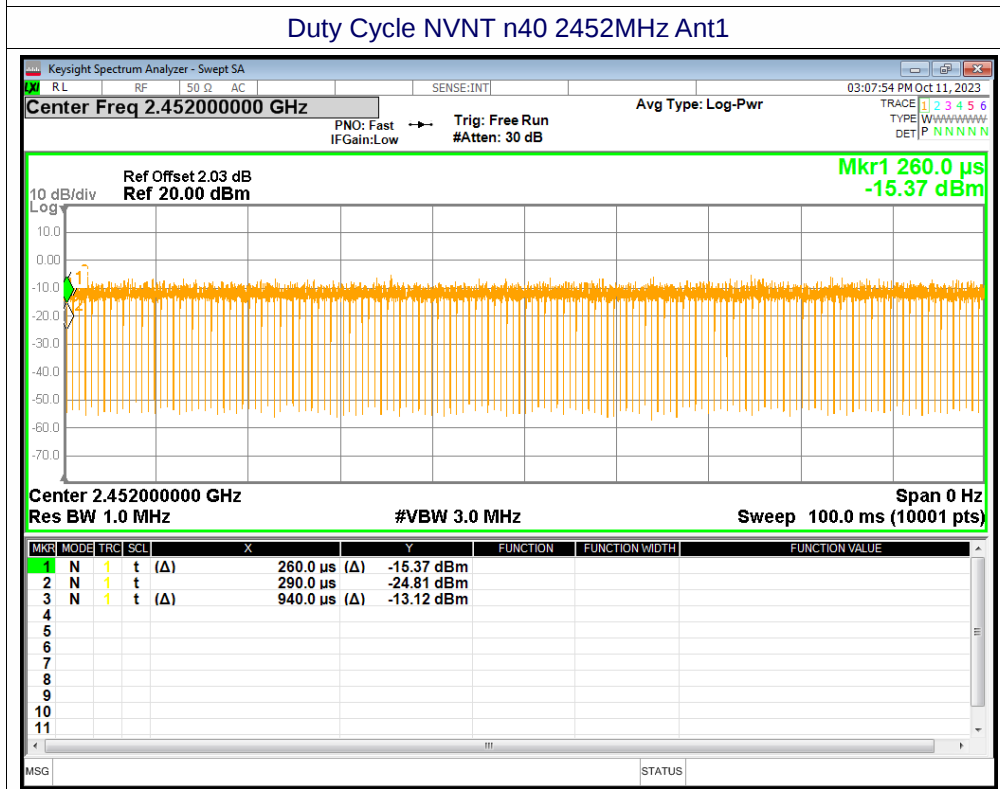
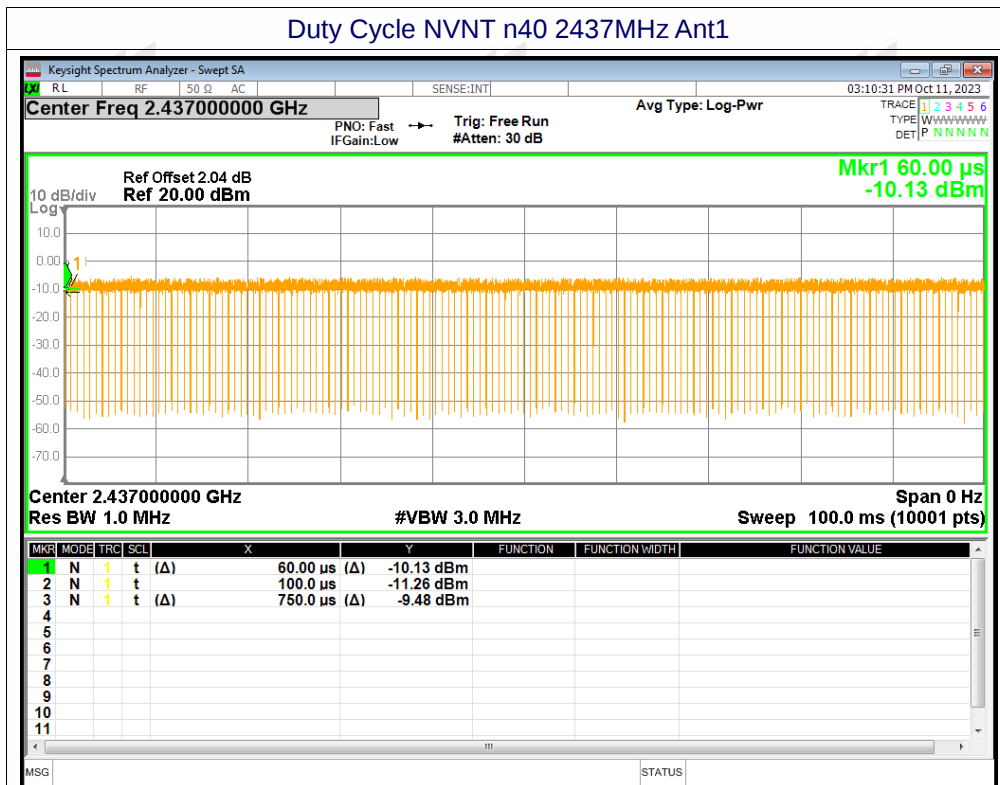


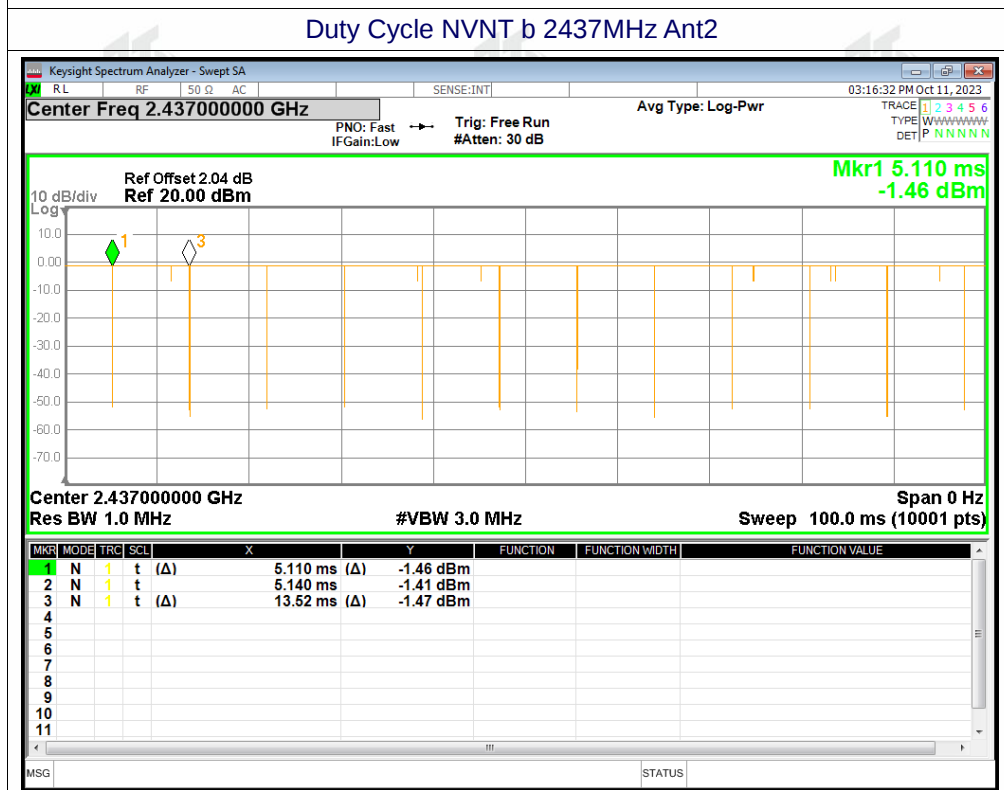
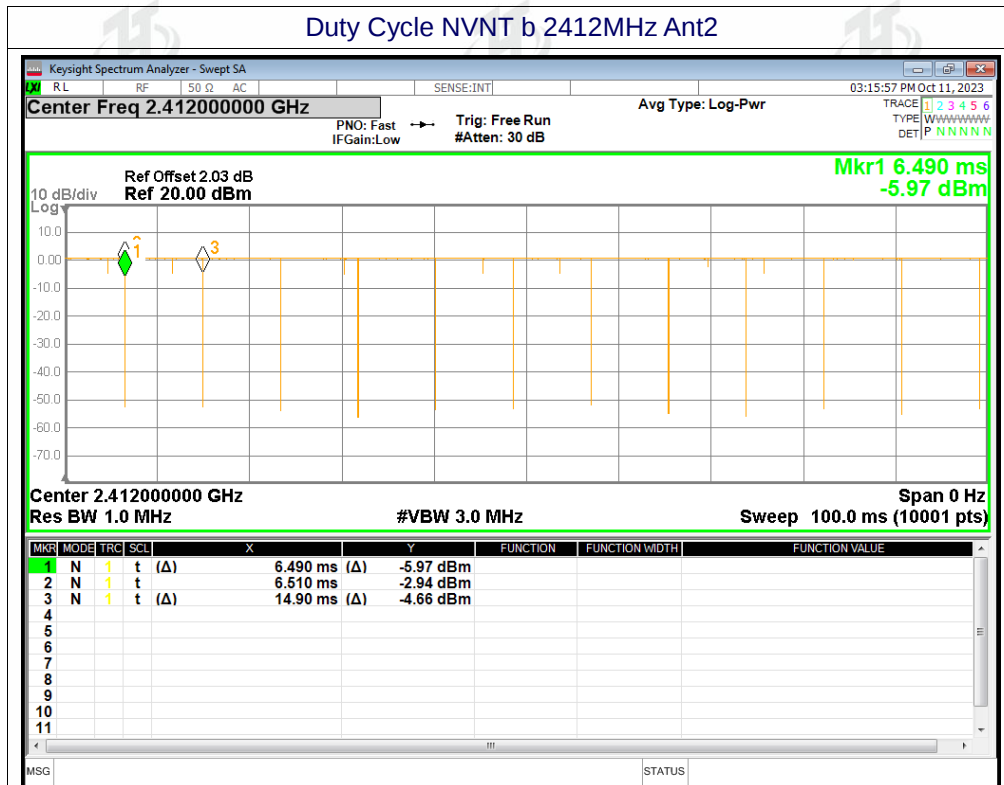
Duty Cycle NVNT n20 2462MHz Ant1



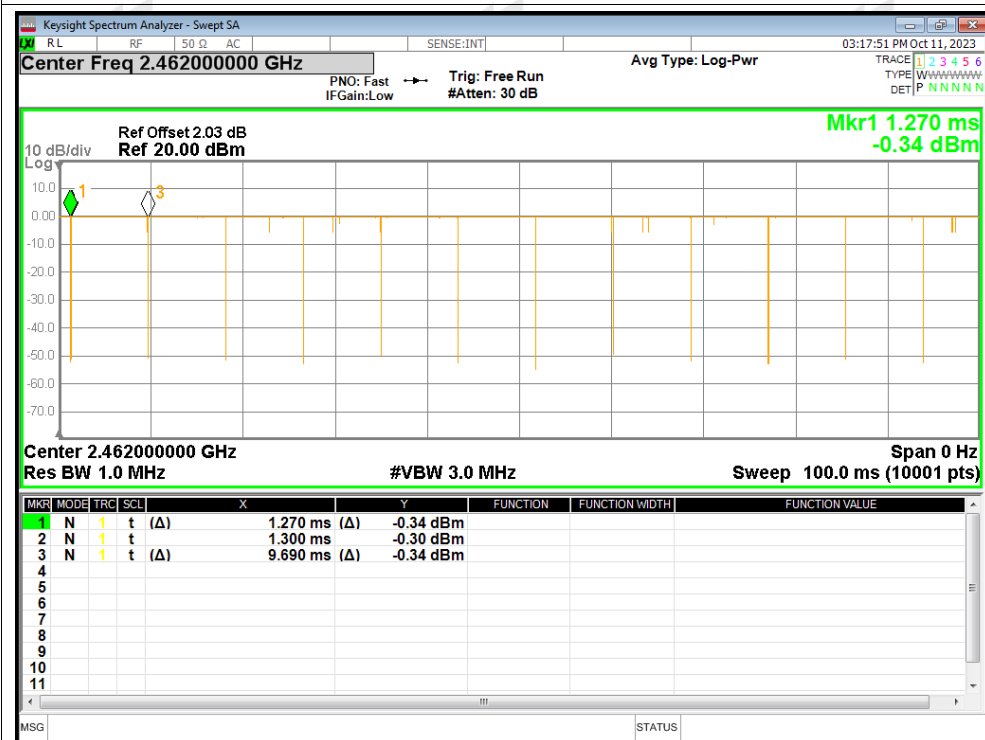
Duty Cycle NVNT n40 2422MHz Ant1



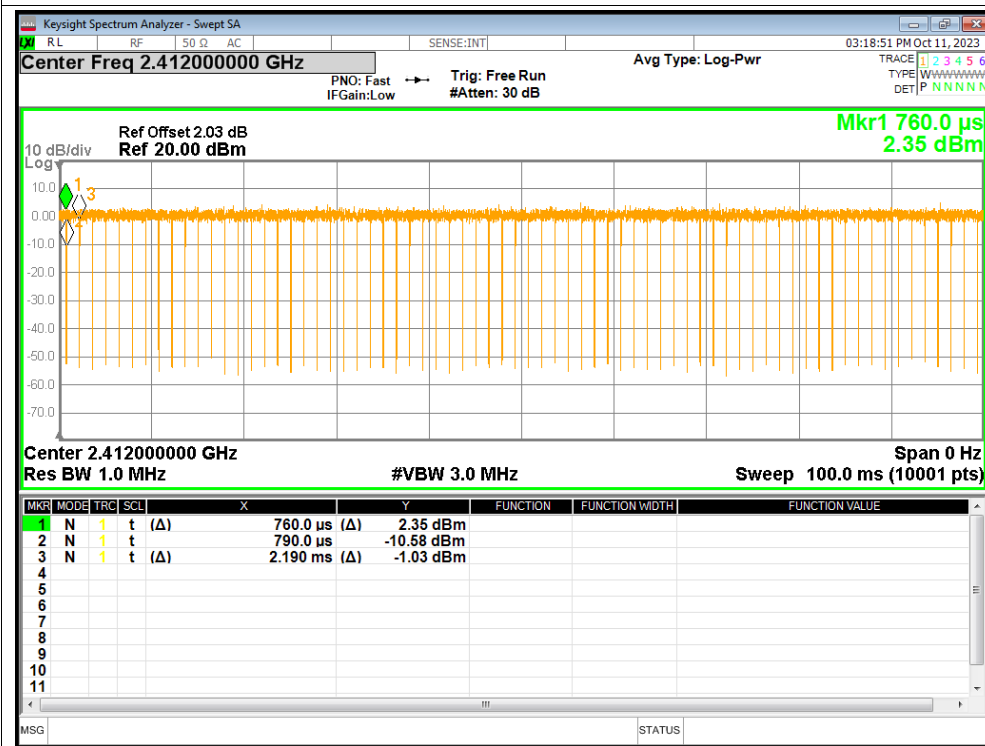


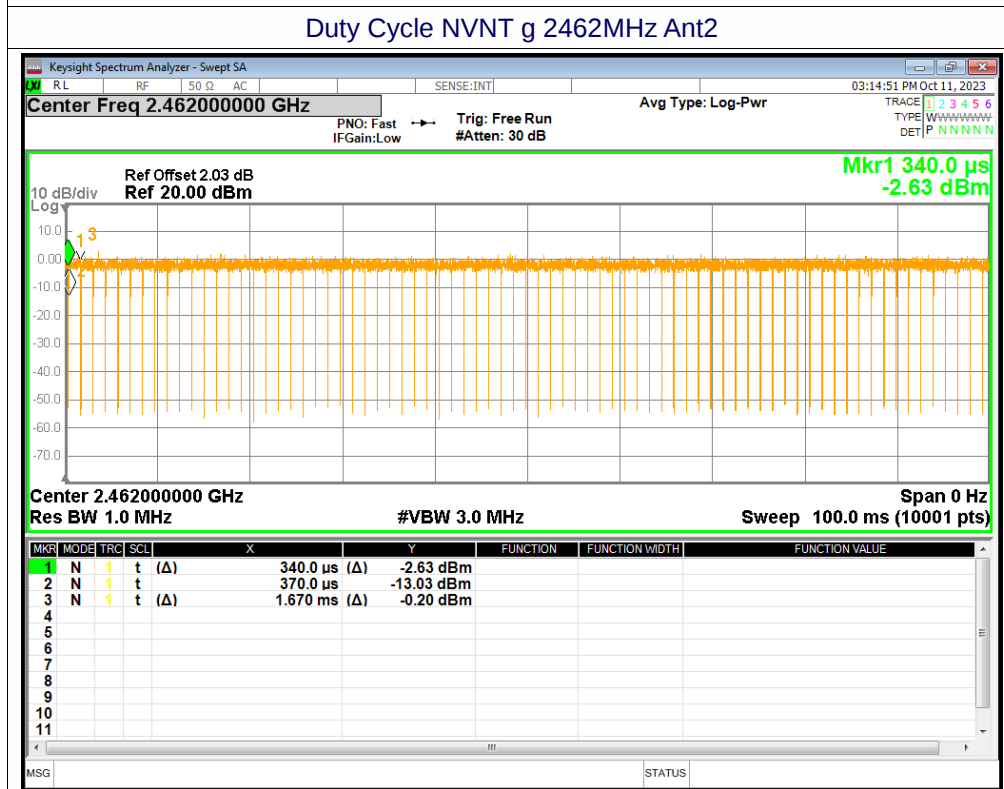
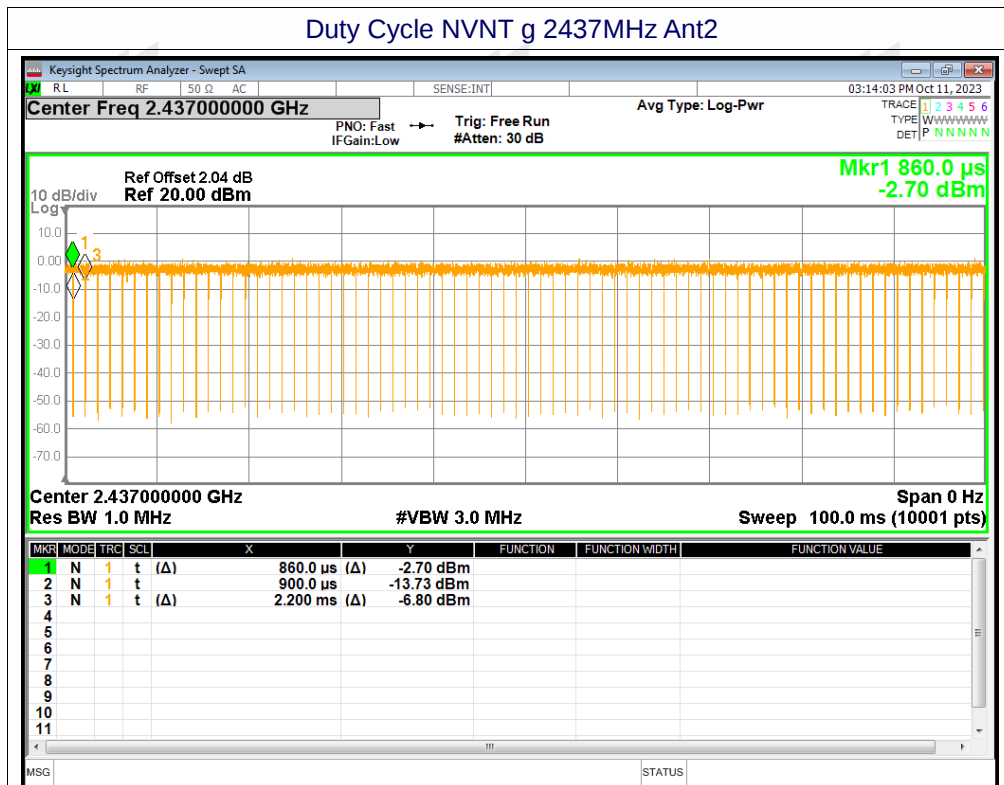


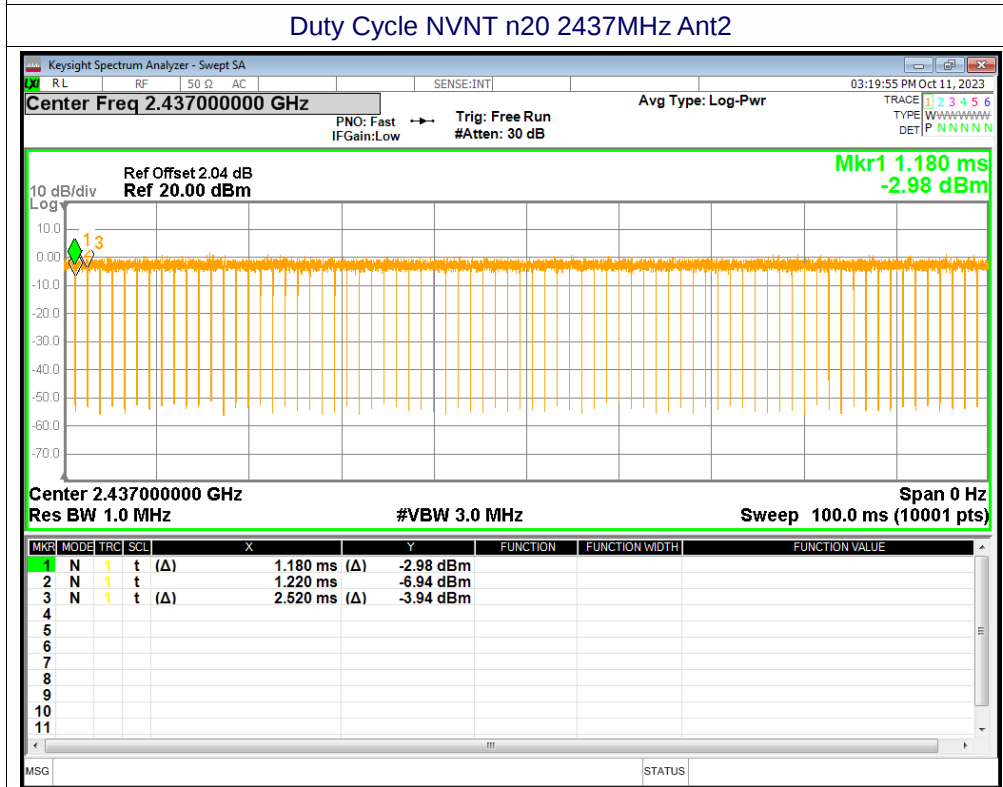
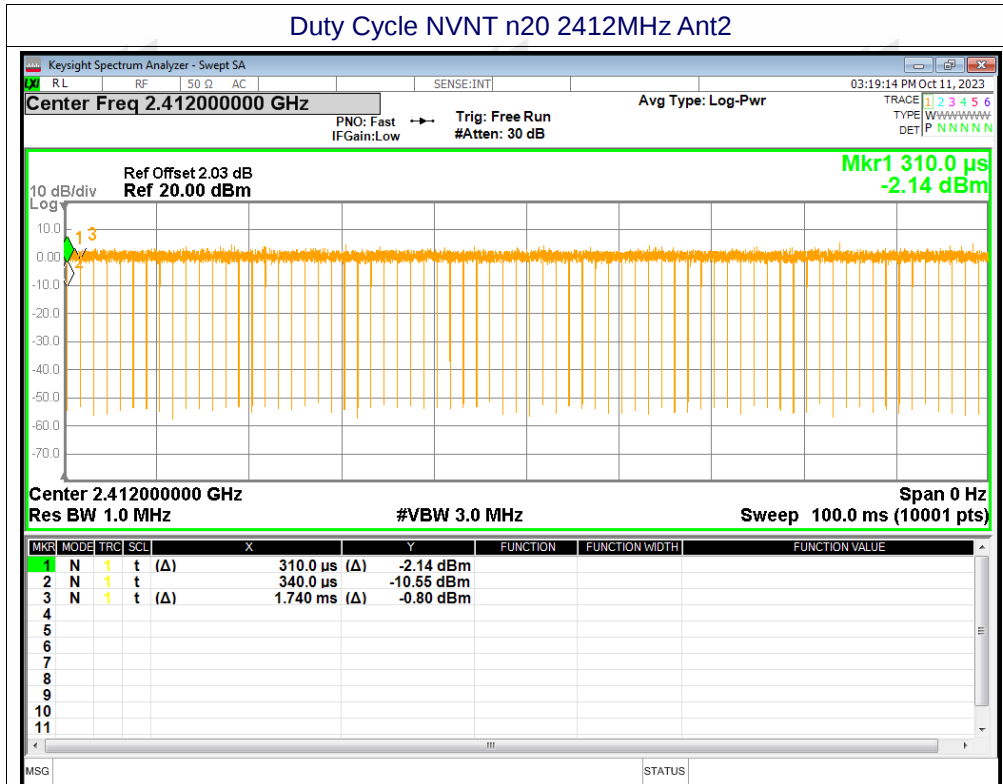
Duty Cycle NVNT b 2462MHz Ant2

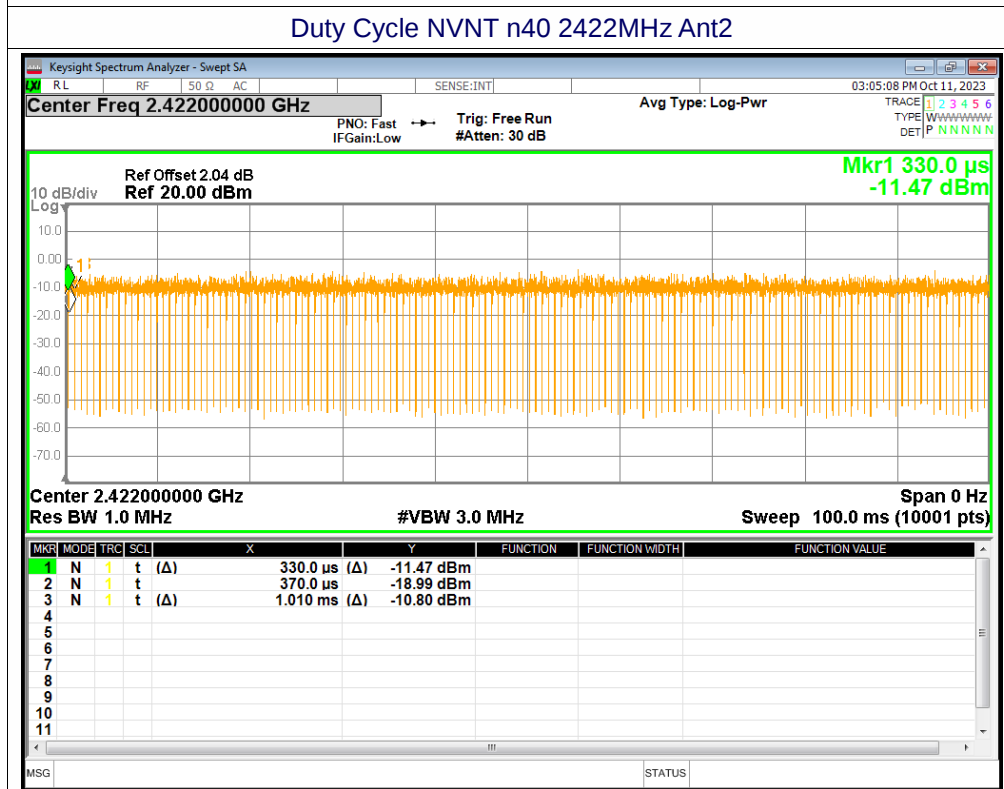
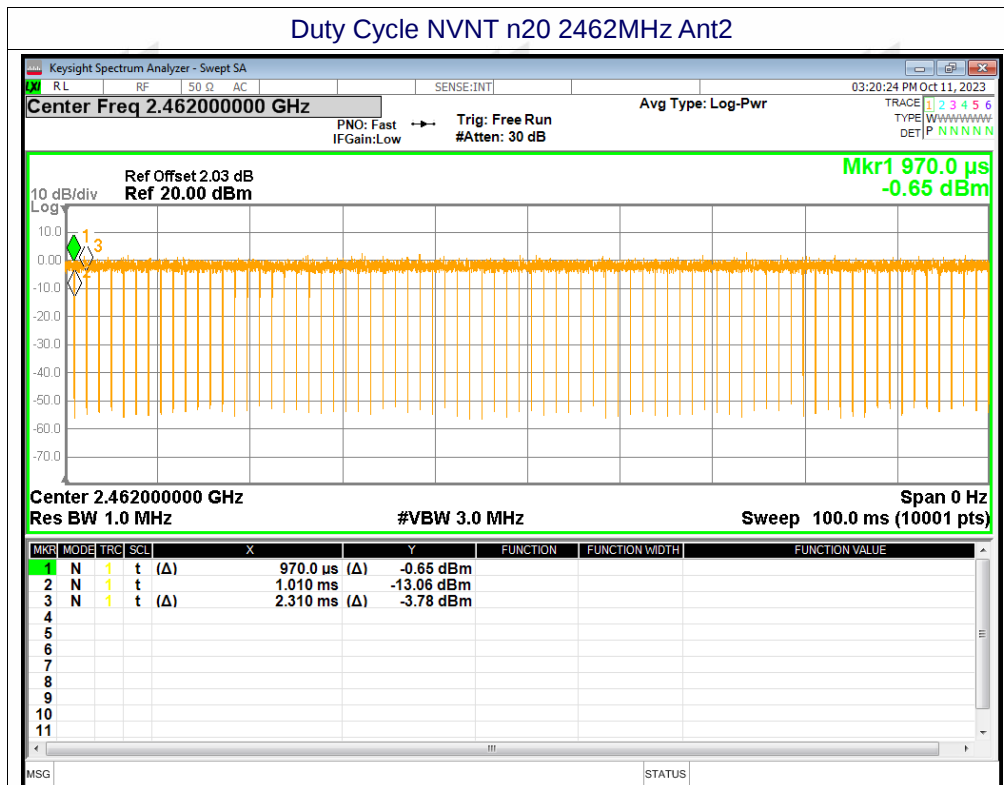


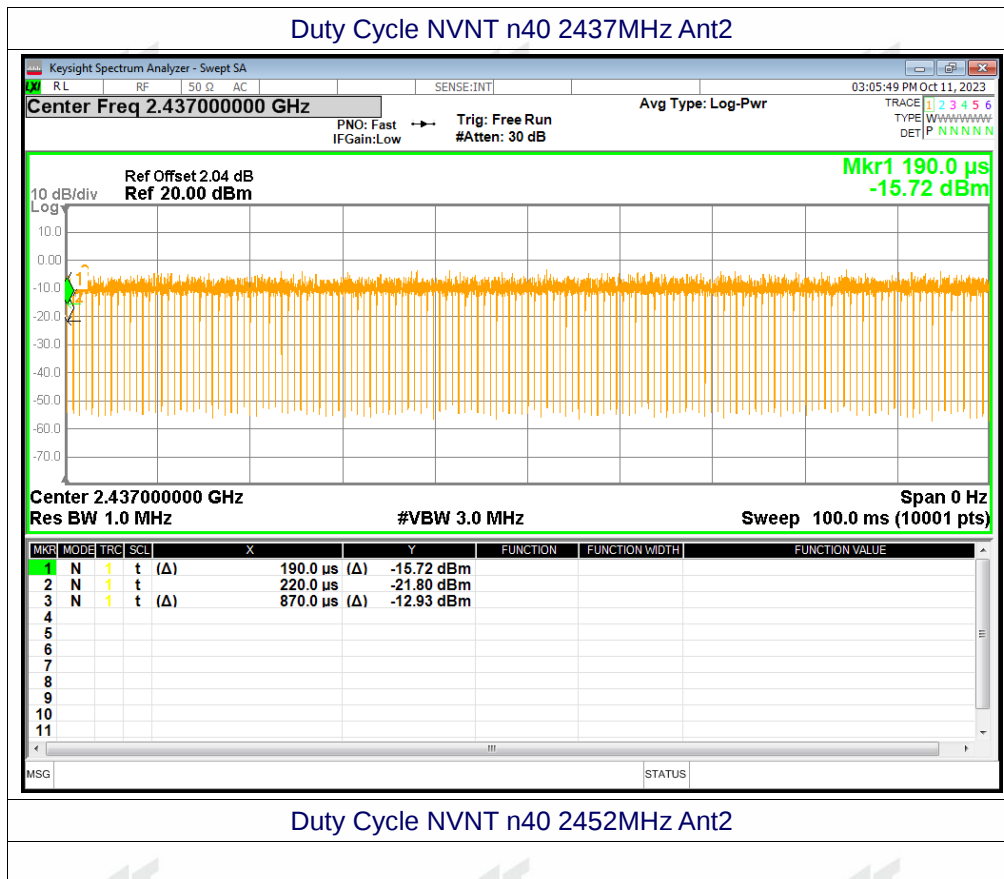
Duty Cycle NVNT g 2412MHz Ant2







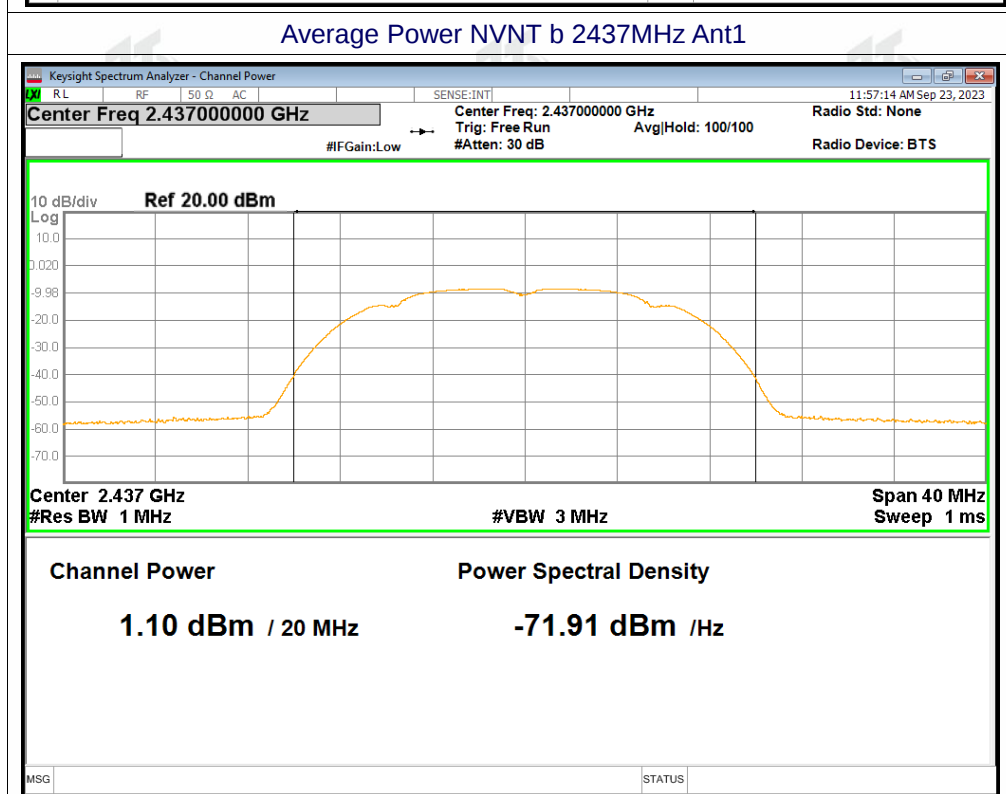
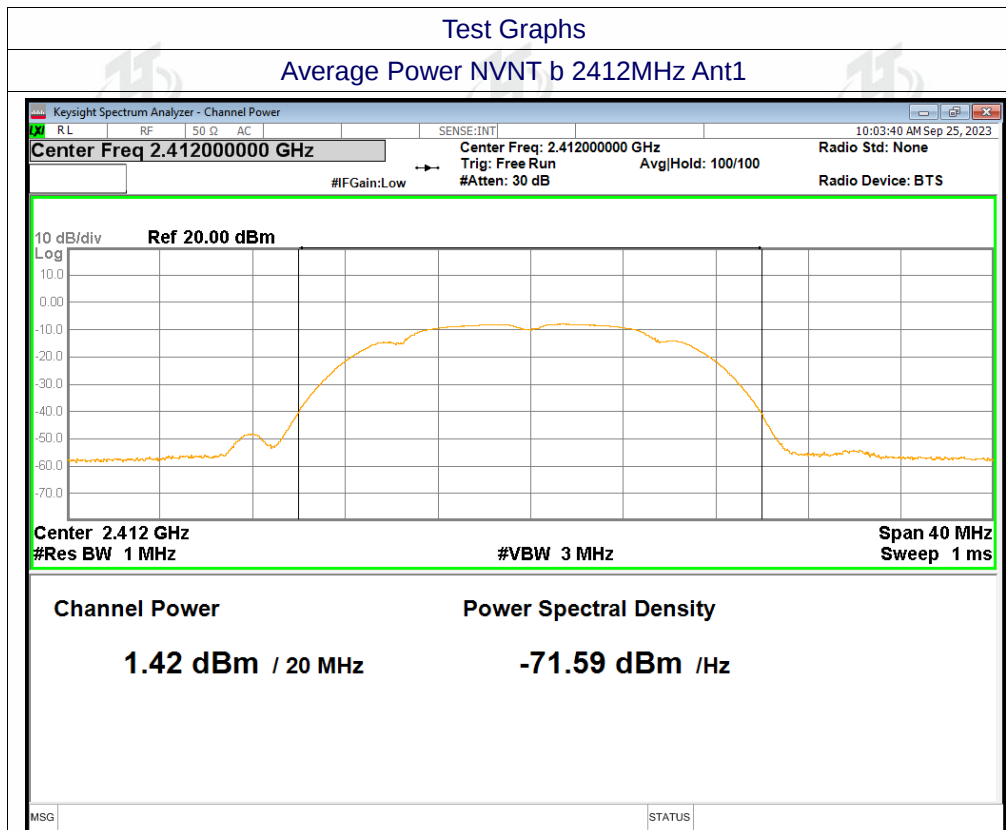




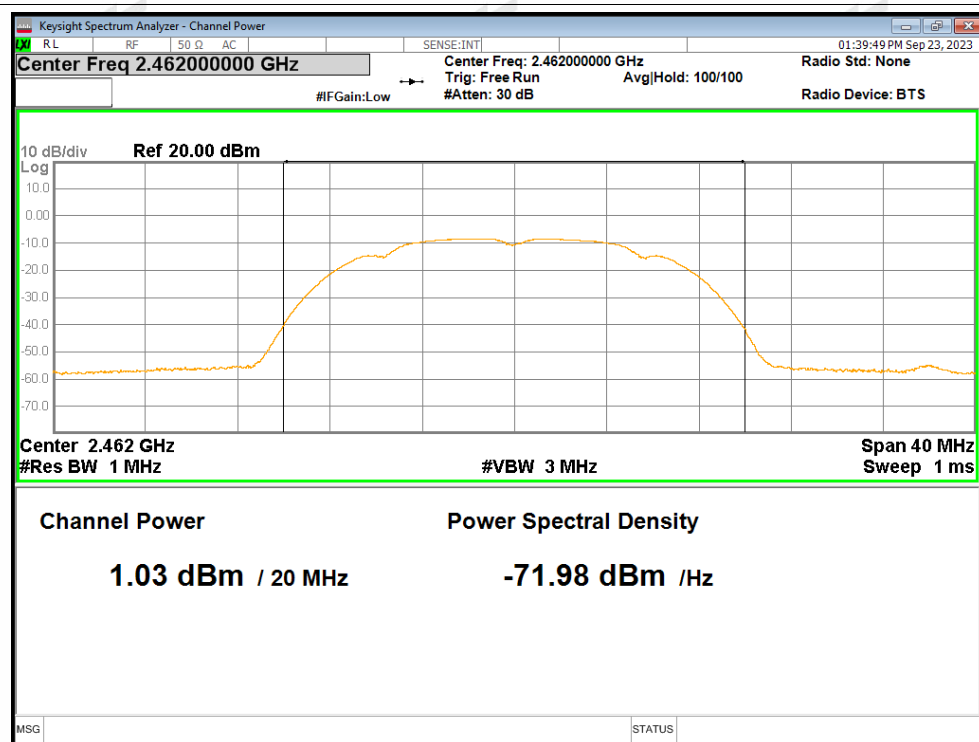


A2 Maximum Average Conducted Output Power

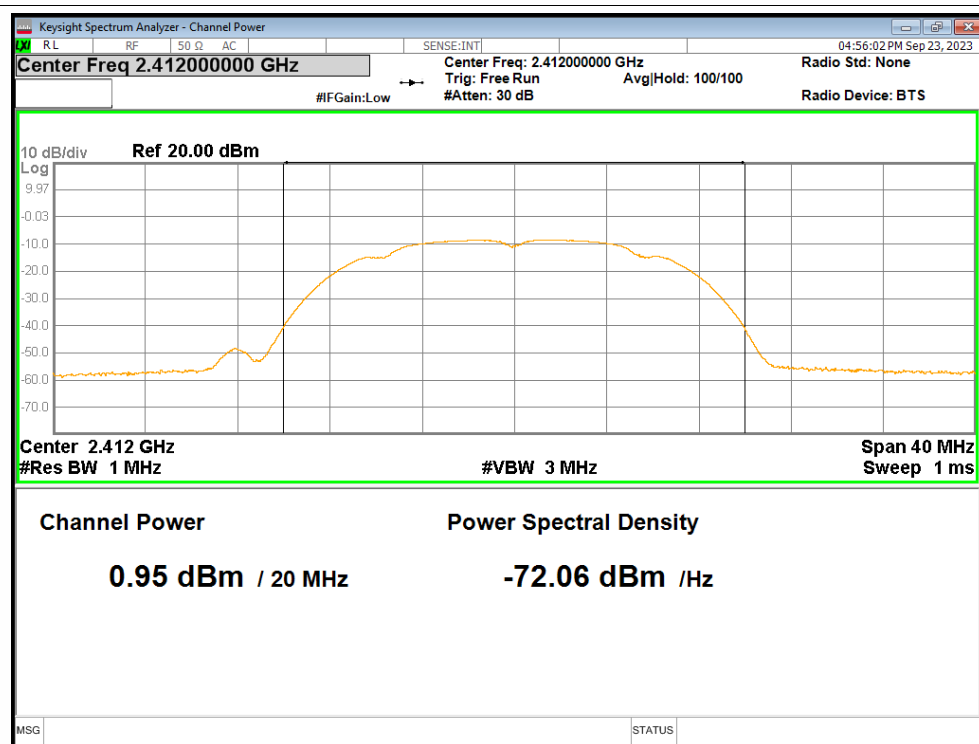
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	1.42	0	1.42	30	Pass
NVNT	b	2437	Ant1	1.1	0	1.1	30	Pass
NVNT	b	2462	Ant1	1.03	0	1.03	30	Pass
NVNT	b	2412	Ant2	0.95	0	0.95	30	Pass
NVNT	b	2437	Ant2	1.22	0	1.22	30	Pass
NVNT	b	2462	Ant2	1.12	0	1.12	30	Pass
NVNT	g	2412	Ant1	-3.34	0.12	-3.22	30	Pass
NVNT	g	2437	Ant1	-3.18	0.13	-3.05	30	Pass
NVNT	g	2462	Ant1	-3.27	0.1	-3.17	30	Pass
NVNT	g	2412	Ant2	-3.46	0.09	-3.37	30	Pass
NVNT	g	2437	Ant2	-3.29	0.1	-3.19	30	Pass
NVNT	g	2462	Ant2	-3.38	0.1	-3.28	30	Pass
NVNT	n20	2412	Ant1	-3.58	0.09	-3.49	30	Pass
NVNT	n20	2437	Ant1	-3.36	0.13	-3.23	30	Pass
NVNT	n20	2462	Ant1	-3.34	0.1	-3.24	30	Pass
NVNT	n20	2412	Ant2	-3.52	0.09	-3.43	30	Pass
NVNT	n20	2437	Ant2	-3.31	0.13	-3.18	30	Pass
NVNT	n20	2462	Ant2	-3.38	0.13	-3.25	30	Pass
NVNT	n40	2422	Ant1	-4.61	0.2	-4.41	30	Pass
NVNT	n40	2437	Ant1	-4.75	0.26	-4.49	30	Pass
NVNT	n40	2452	Ant1	-4.88	0.2	-4.68	30	Pass
NVNT	n40	2422	Ant2	-4.58	0.26	-4.32	30	Pass
NVNT	n40	2437	Ant2	-4.74	0.2	-4.54	30	Pass
NVNT	n40	2452	Ant2	-4.77	0.2	-4.57	30	Pass
NVNT	n20	2412	MIMO	/	/	-0.45	30	Pass
NVNT	n20	2437	MIMO	/	/	-0.32	30	Pass
NVNT	n20	2462	MIMO	/	/	-0.23	30	Pass
NVNT	n40	2422	MIMO	/	/	-1.35	30	Pass
NVNT	n40	2437	MIMO	/	/	-1.48	30	Pass
NVNT	n40	2452	MIMO	/	/	-1.61	30	Pass



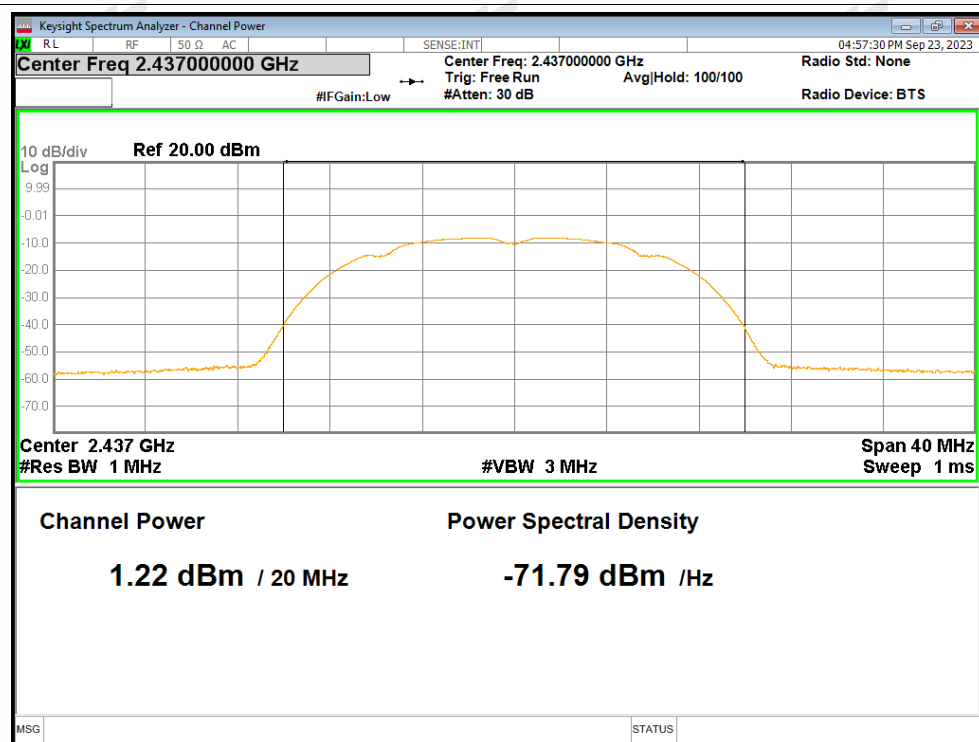
Average Power NVNT b 2462MHz Ant1



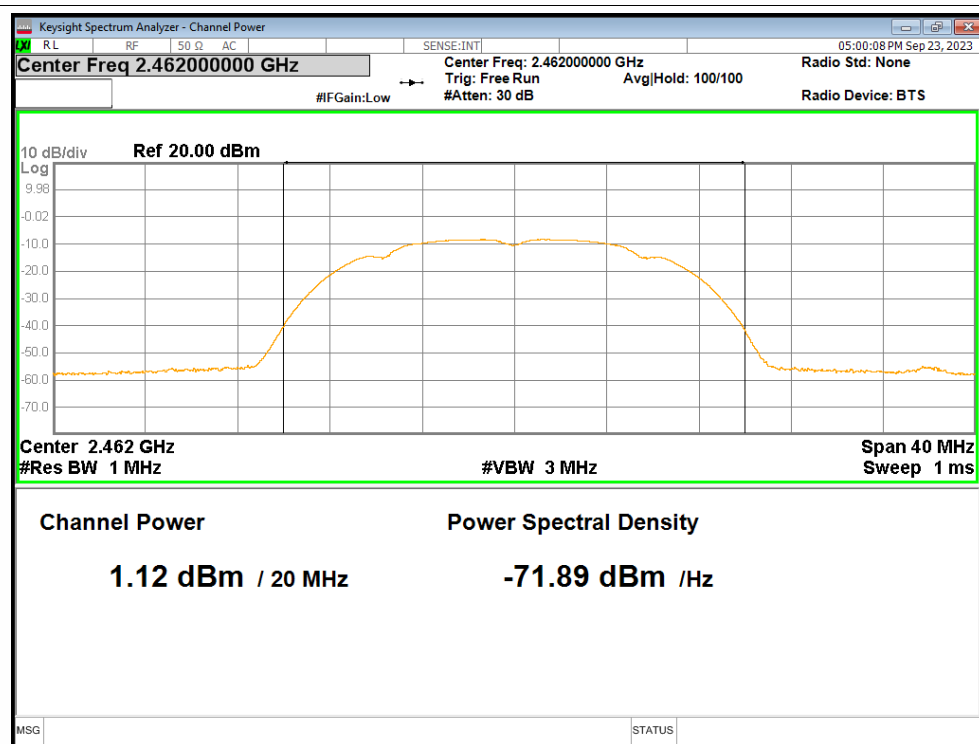
Average Power NVNT b 2412MHz Ant2



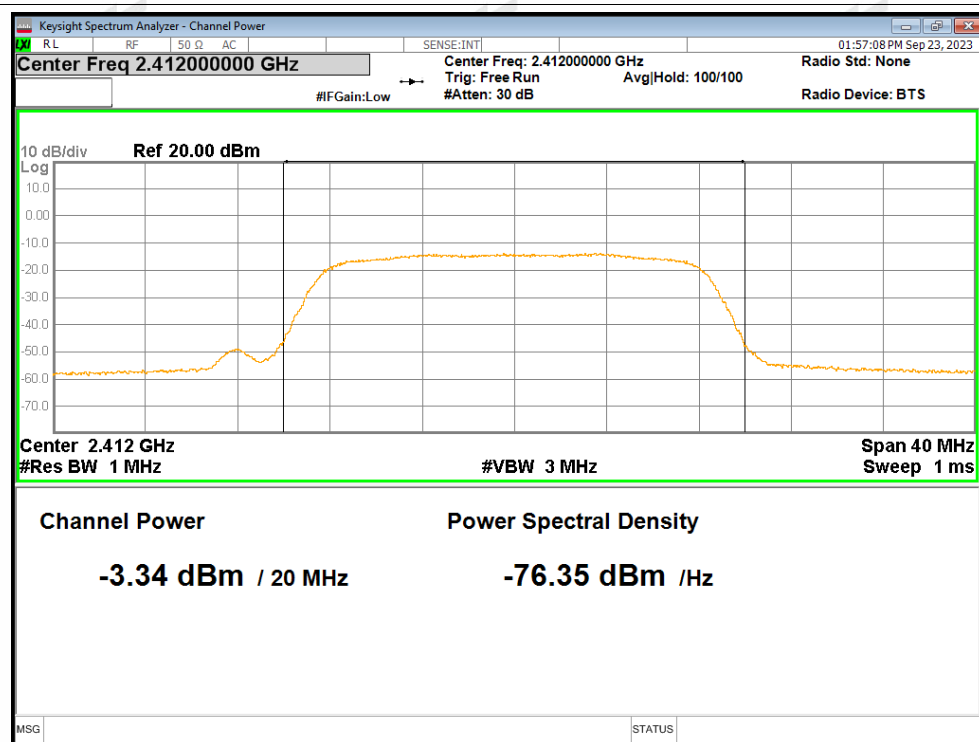
Average Power NVNT b 2437MHz Ant2



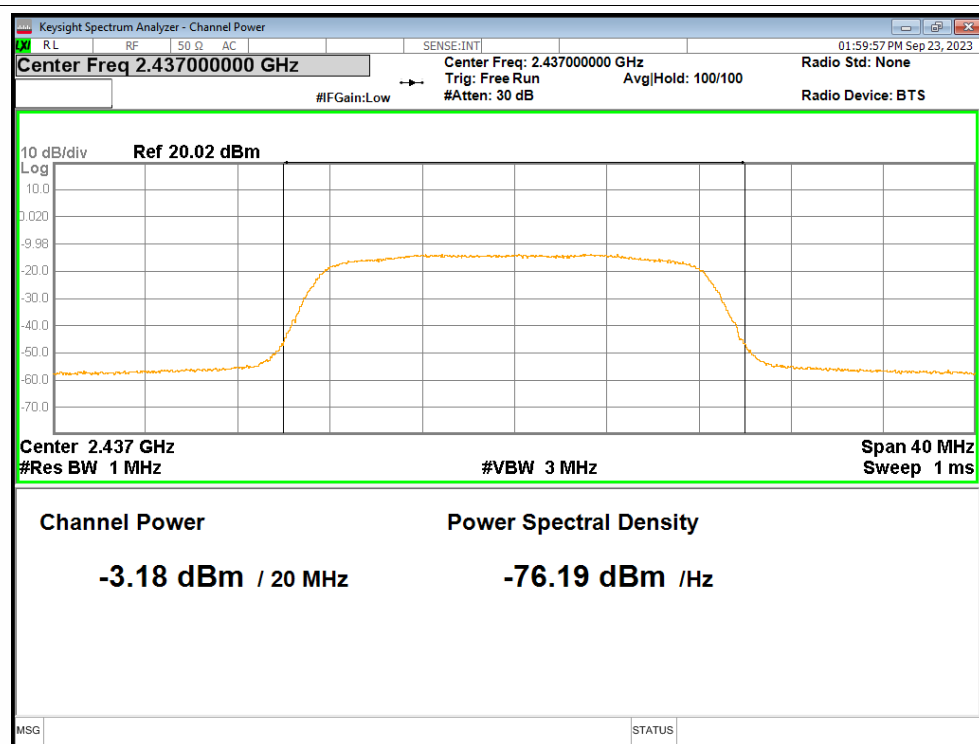
Average Power NVNT b 2462MHz Ant2



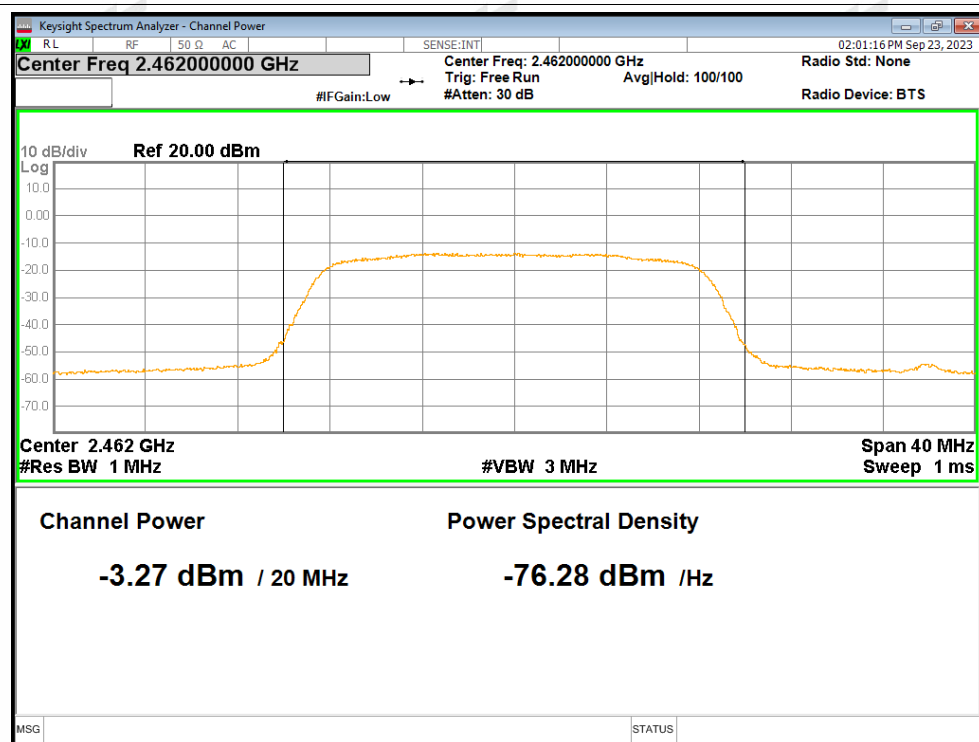
Average Power NVNT g 2412MHz Ant1



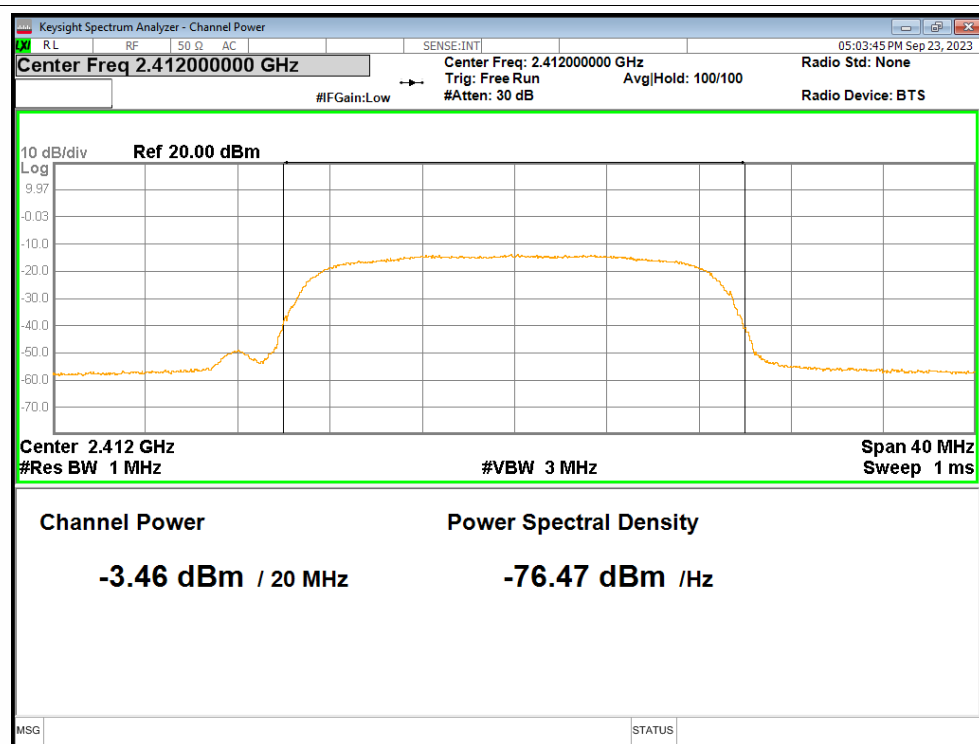
Average Power NVNT g 2437MHz Ant1



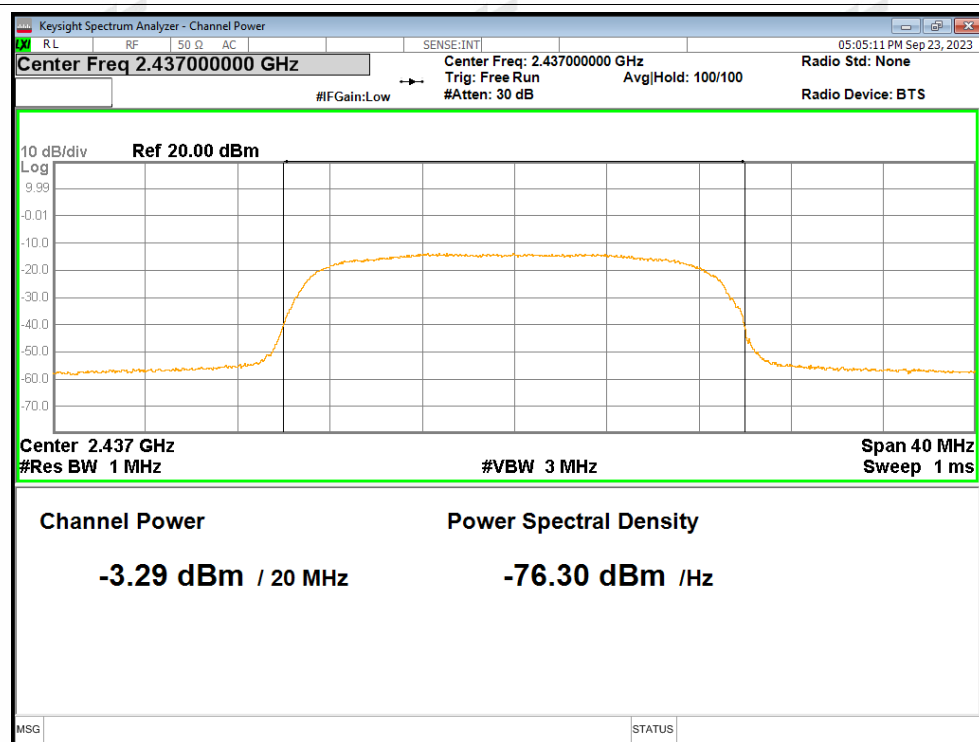
Average Power NVNT g 2462MHz Ant1



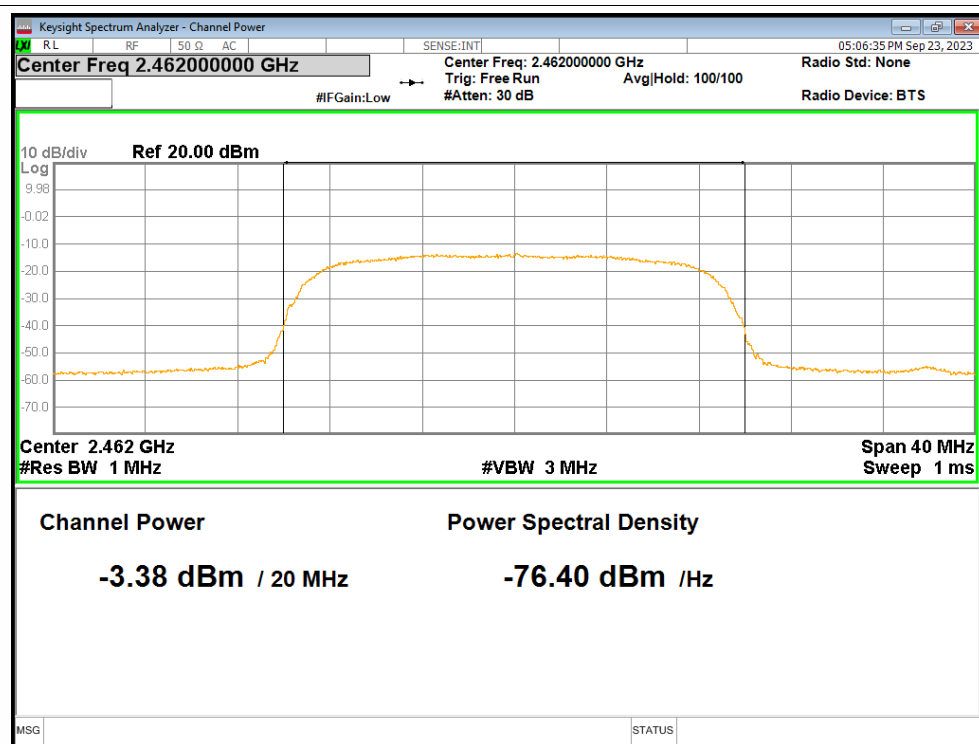
Average Power NVNT g 2412MHz Ant2



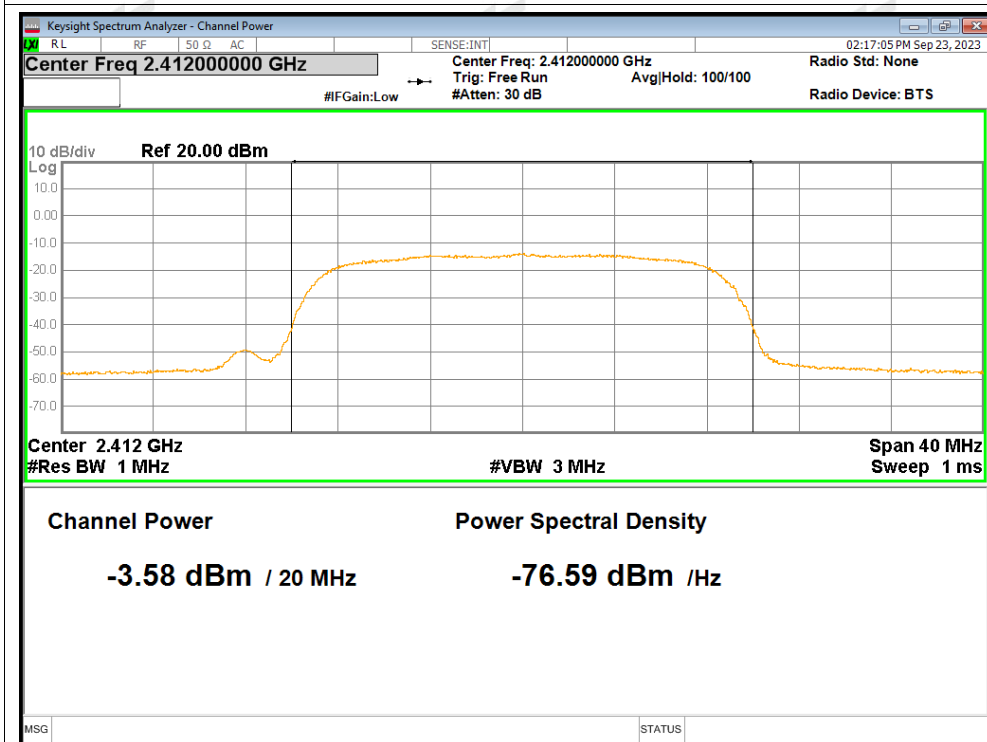
Average Power NVNT g 2437MHz Ant2



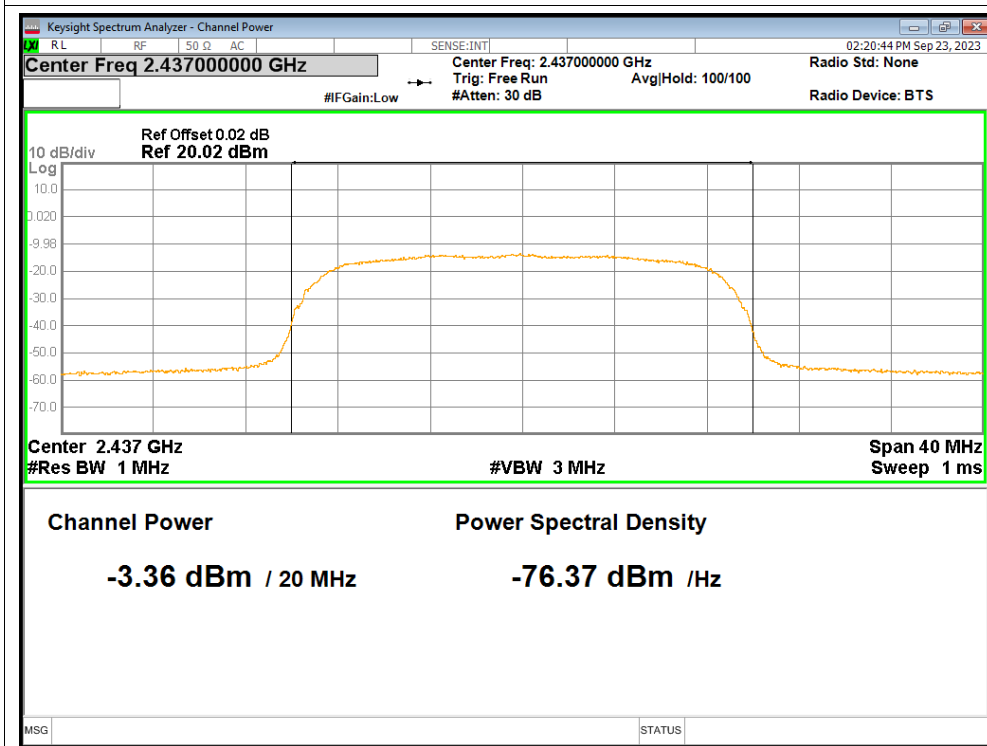
Average Power NVNT g 2462MHz Ant2



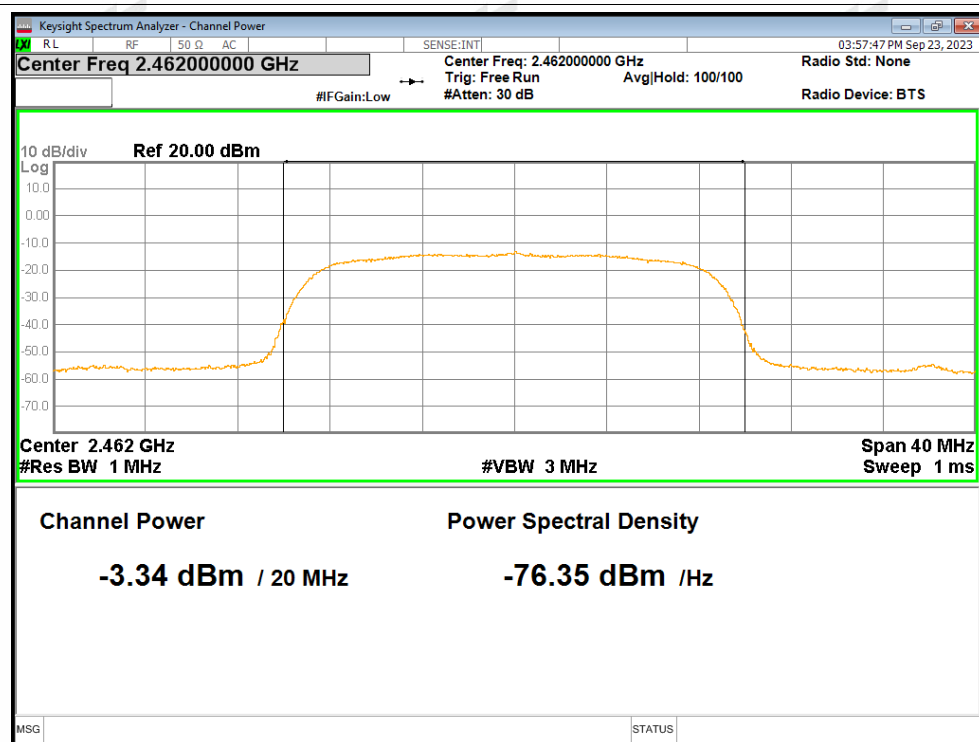
Average Power NVNT n20 2412MHz Ant1



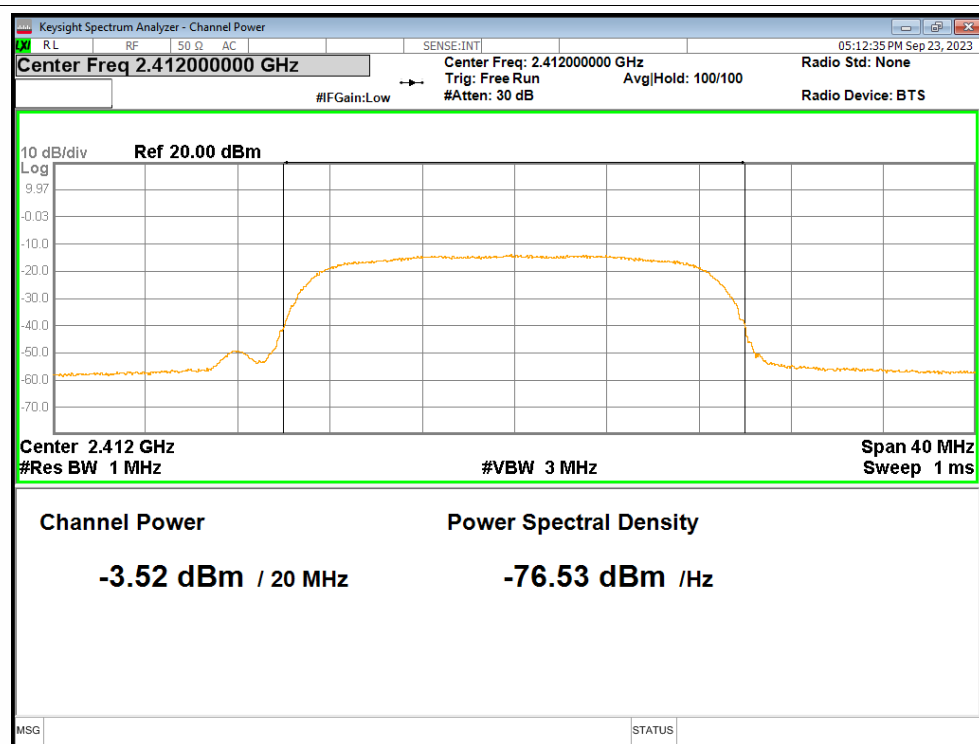
Average Power NVNT n20 2437MHz Ant1



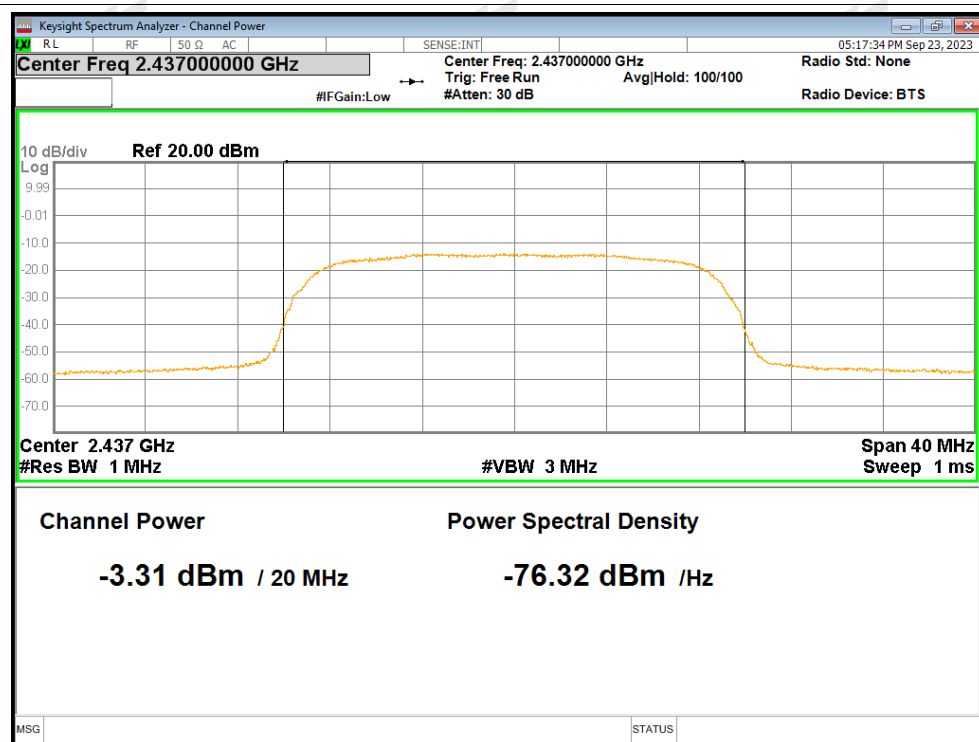
Average Power NVNT n20 2462MHz Ant1



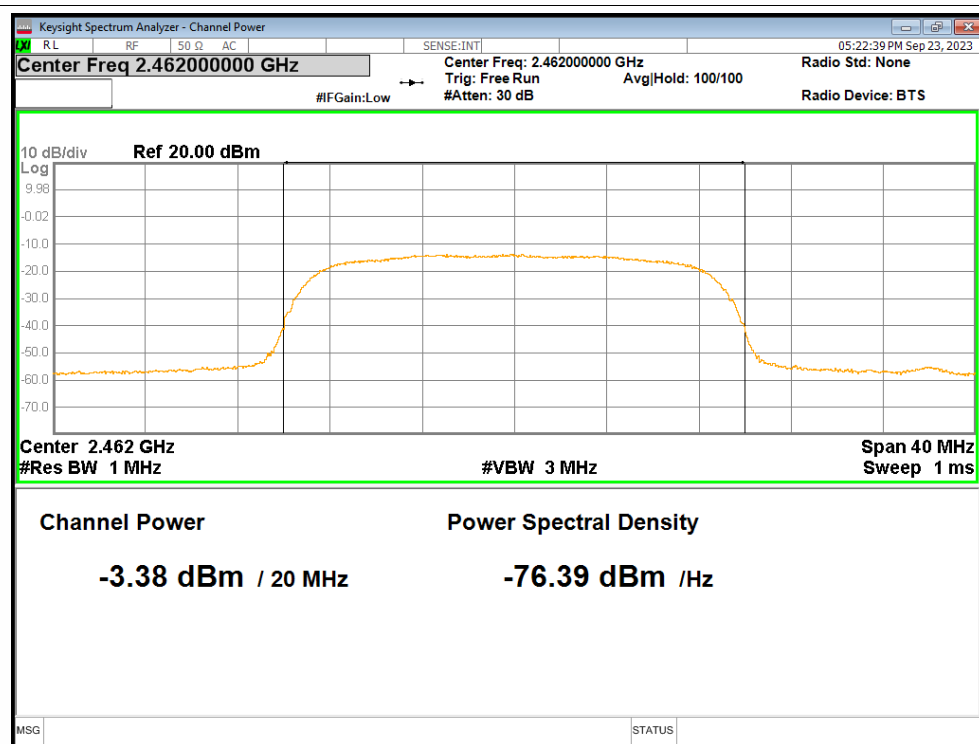
Average Power NVNT n20 2412MHz Ant2



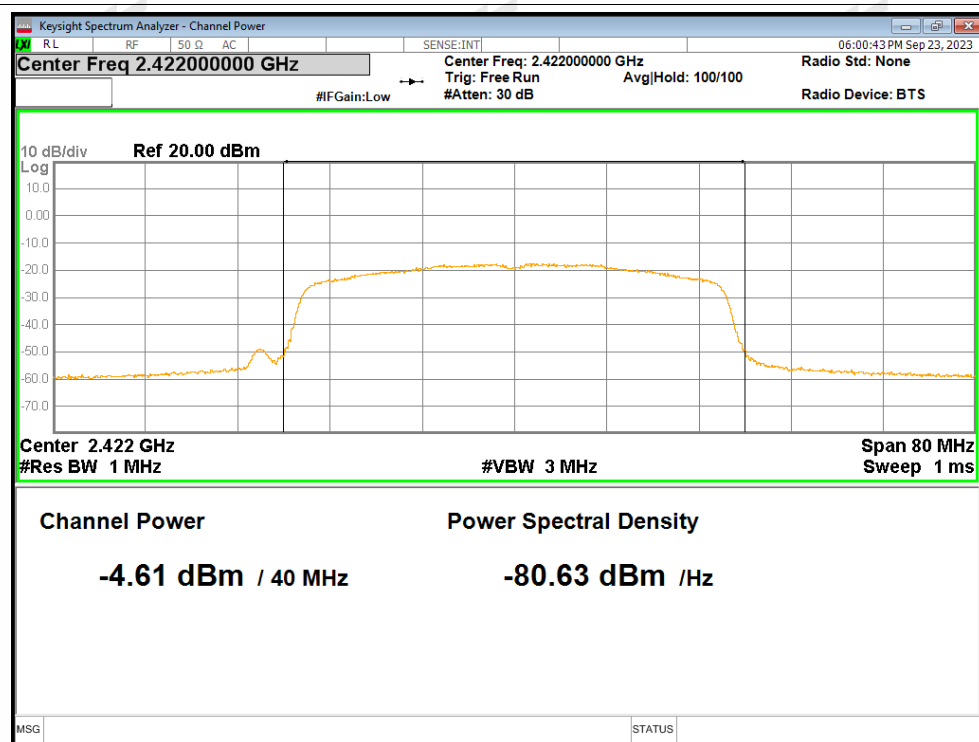
Average Power NVNT n20 2437MHz Ant2



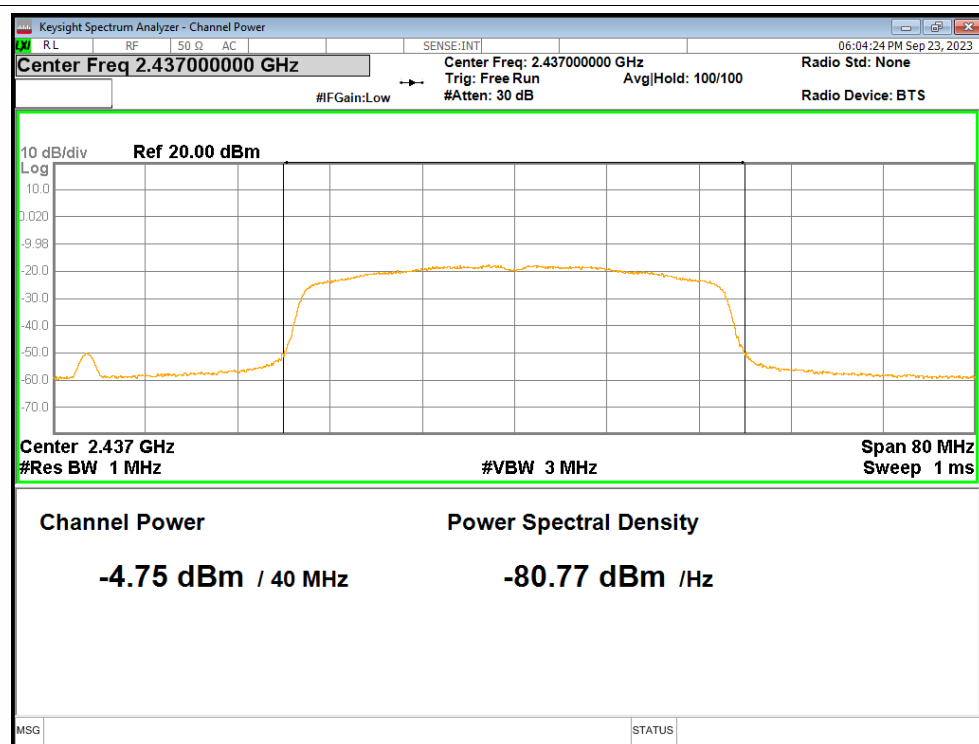
Average Power NVNT n20 2462MHz Ant2



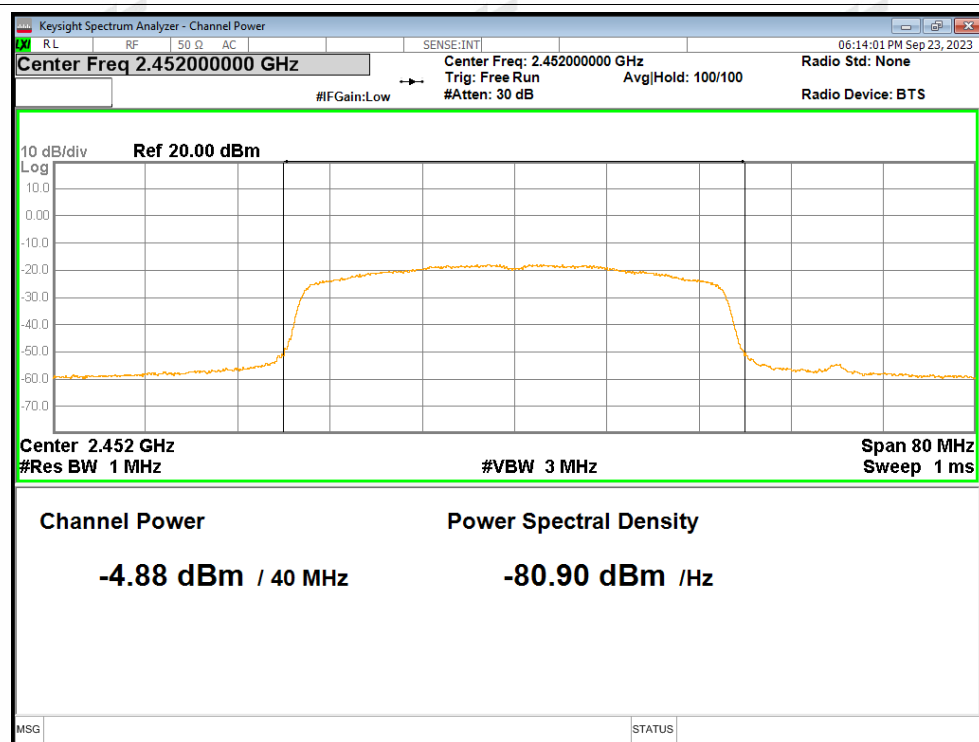
Average Power NVNT n40 2422MHz Ant1



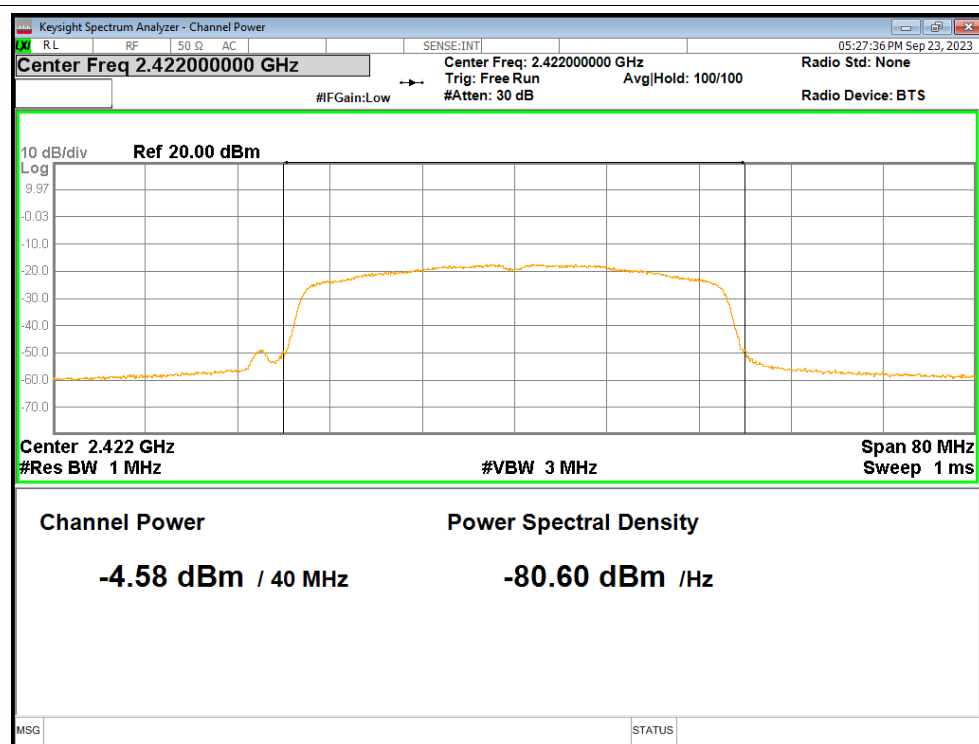
Average Power NVNT n40 2437MHz Ant1



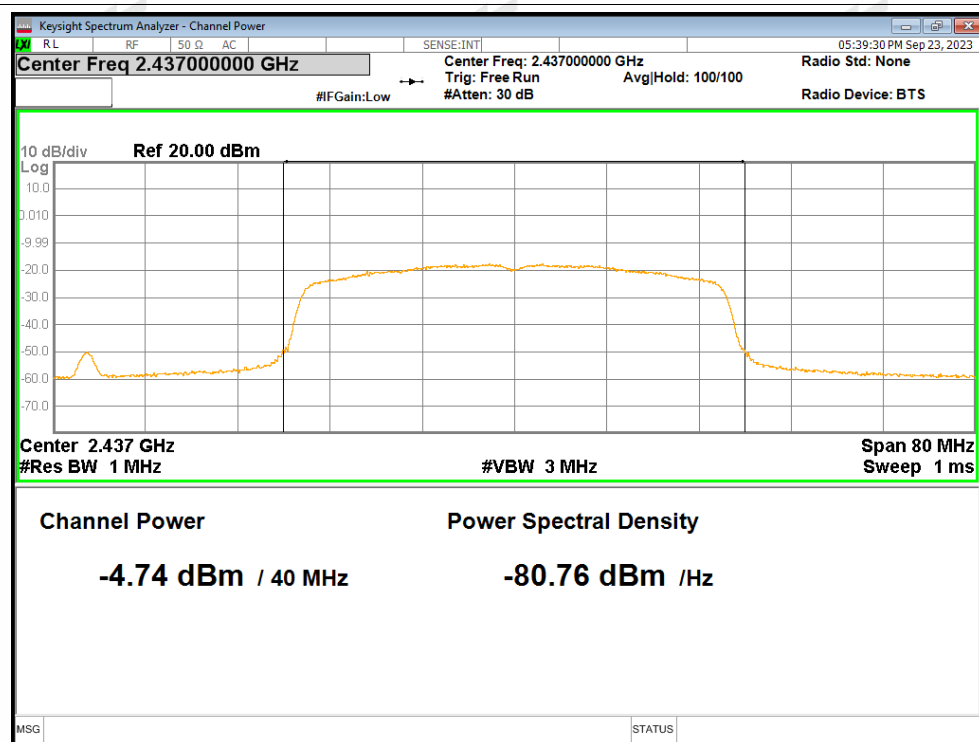
Average Power NVNT n40 2452MHz Ant1



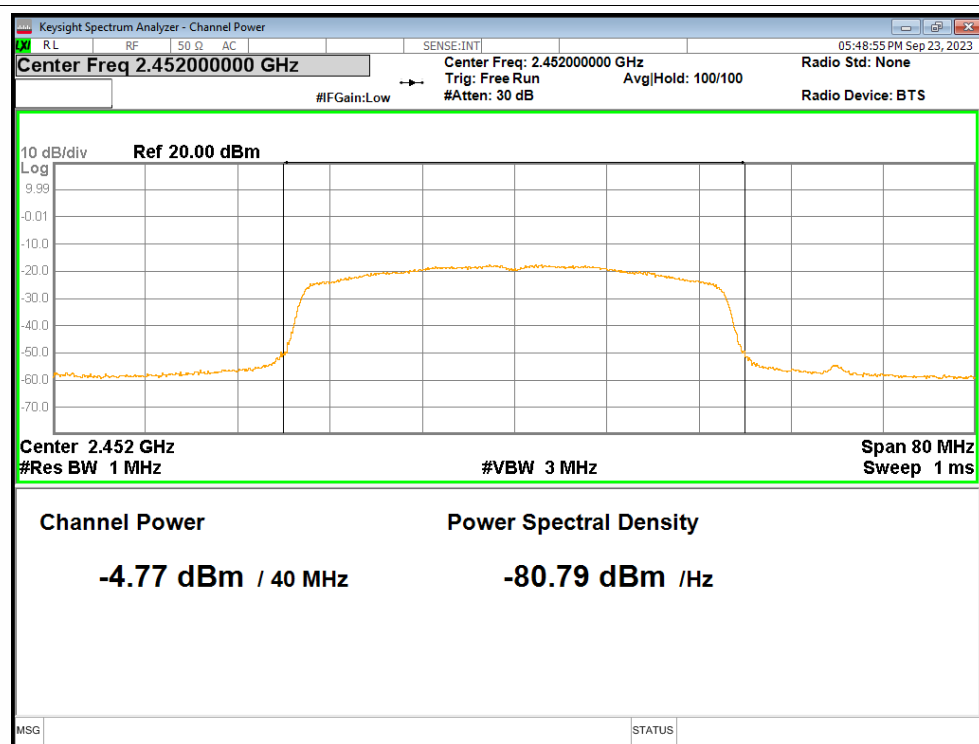
Average Power NVNT n40 2422MHz Ant2



Average Power NVNT n40 2437MHz Ant2



Average Power NVNT n40 2452MHz Ant2

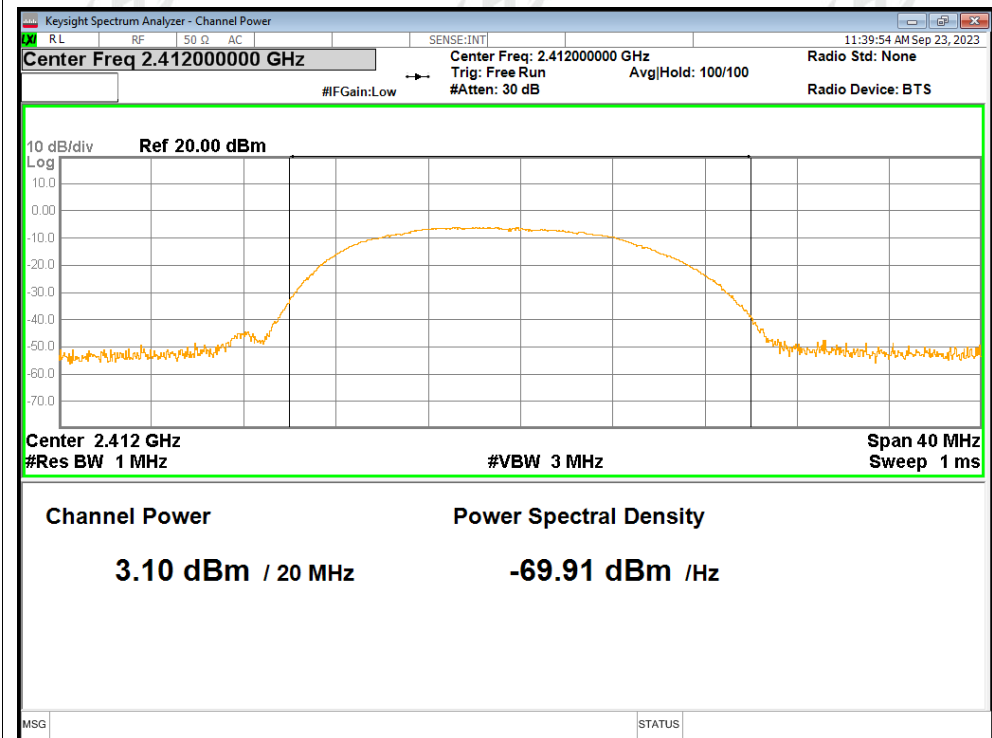


A3 Maximum Peak Conducted Output Power

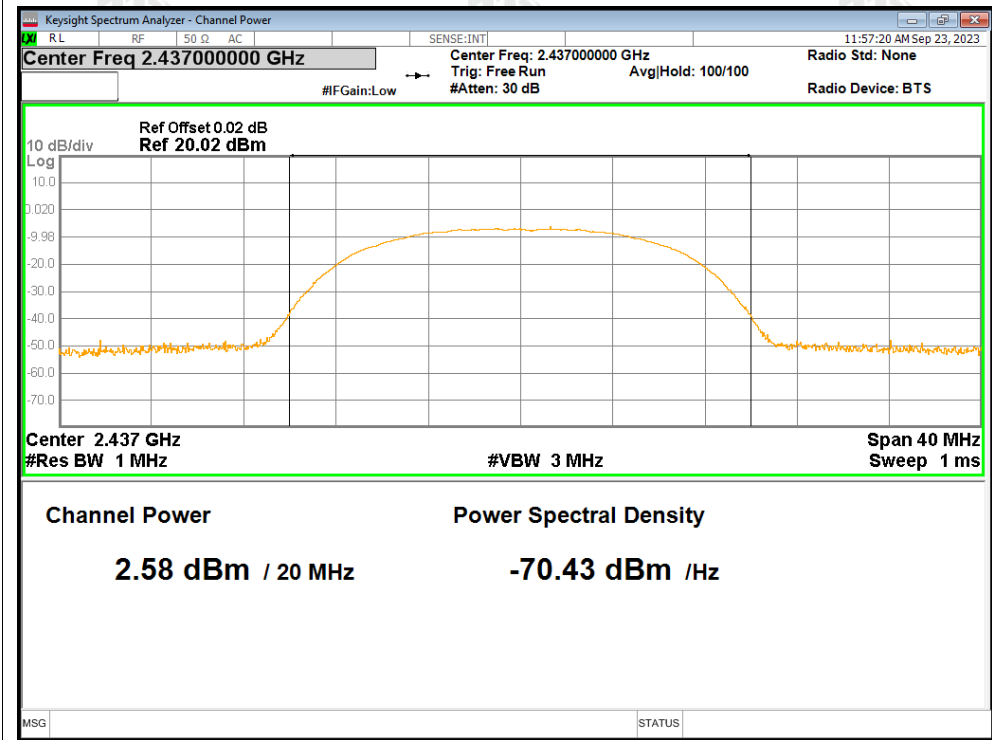
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	3.1	0	3.1	30	Pass
NVNT	b	2437	Ant1	2.58	0	2.58	30	Pass
NVNT	b	2462	Ant1	2.53	0	2.53	30	Pass
NVNT	b	2412	Ant2	2.43	0	2.43	30	Pass
NVNT	b	2437	Ant2	2.73	0	2.73	30	Pass
NVNT	b	2462	Ant2	2.59	0	2.59	30	Pass
NVNT	g	2412	Ant1	1.32	0.12	1.32	30	Pass
NVNT	g	2437	Ant1	1.46	0.13	1.46	30	Pass
NVNT	g	2462	Ant1	1.41	0.1	1.41	30	Pass
NVNT	g	2412	Ant2	1.24	0.09	1.24	30	Pass
NVNT	g	2437	Ant2	1.49	0.1	1.49	30	Pass
NVNT	g	2462	Ant2	1.44	0.1	1.44	30	Pass
NVNT	n20	2412	Ant1	1.2	0.09	1.2	30	Pass
NVNT	n20	2437	Ant1	1.41	0.13	1.41	30	Pass
NVNT	n20	2462	Ant1	1.42	0.1	1.42	30	Pass
NVNT	n20	2412	Ant2	1.25	0.09	1.25	30	Pass
NVNT	n20	2437	Ant2	1.31	0.13	1.31	30	Pass
NVNT	n20	2462	Ant2	1.47	0.13	1.47	30	Pass
NVNT	n40	2422	Ant1	-0.04	0.2	-0.04	30	Pass
NVNT	n40	2437	Ant1	-0.19	0.26	-0.19	30	Pass
NVNT	n40	2452	Ant1	-0.32	0.2	-0.32	30	Pass
NVNT	n40	2422	Ant2	-0.09	0.26	-0.09	30	Pass
NVNT	n40	2437	Ant2	-0.13	0.2	-0.13	30	Pass
NVNT	n40	2452	Ant2	-0.22	0.2	-0.22	30	Pass
NVNT	n20	2412	MIMO	/	/	4.24	30	Pass
NVNT	n20	2437	MIMO	/	/	4.37	30	Pass
NVNT	n20	2462	MIMO	/	/	4.46	30	Pass
NVNT	n40	2422	MIMO	/	/	2.95	30	Pass
NVNT	n40	2437	MIMO	/	/	2.85	30	Pass
NVNT	n40	2452	MIMO	/	/	2.74	30	Pass

Test Graphs

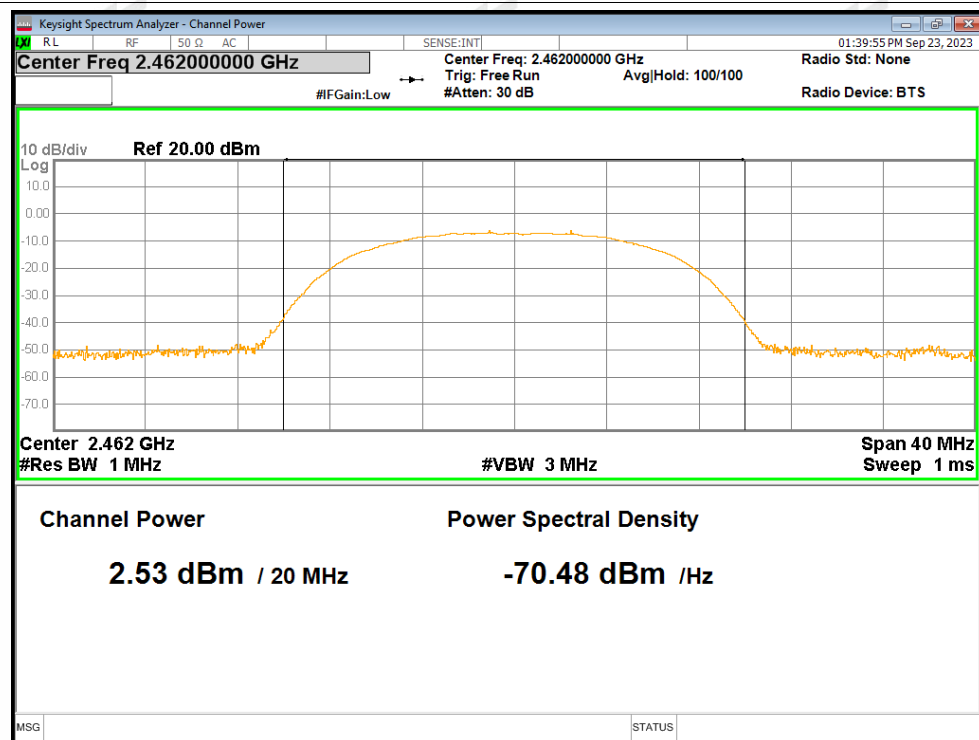
Peak Power NVNT b 2412MHz Ant1



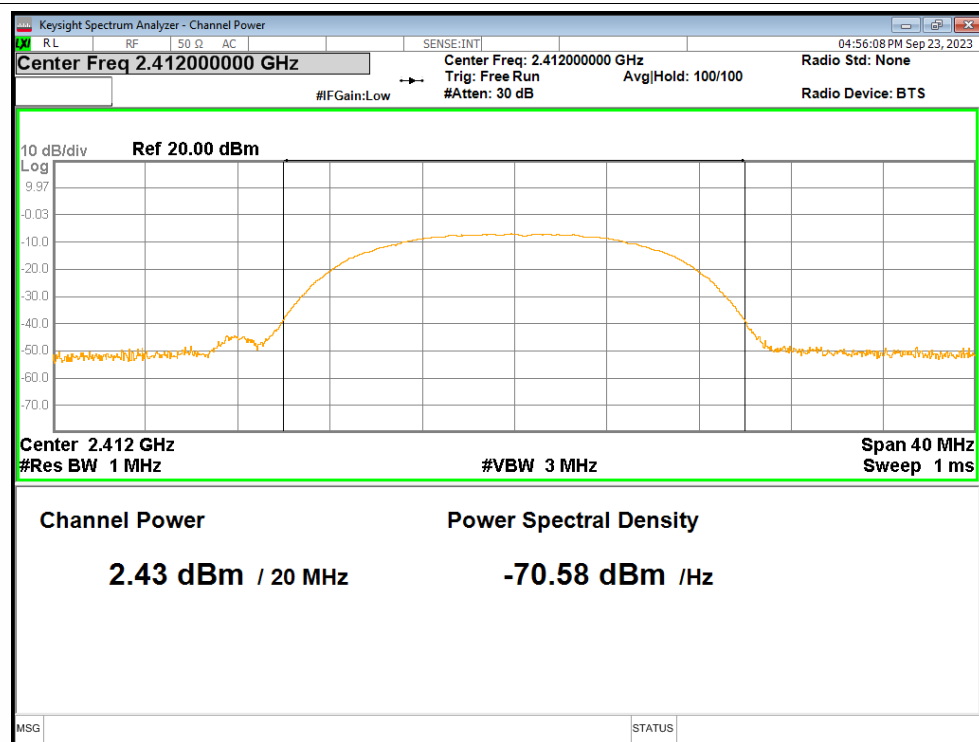
Peak Power NVNT b 2437MHz Ant1



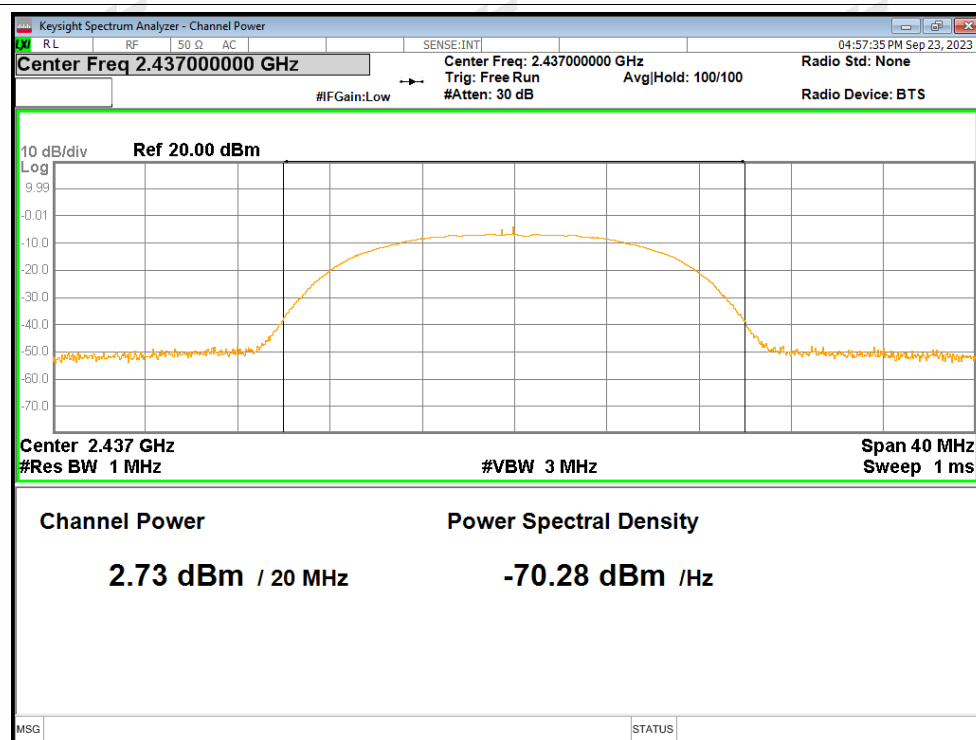
Peak Power NVNT b 2462MHz Ant1



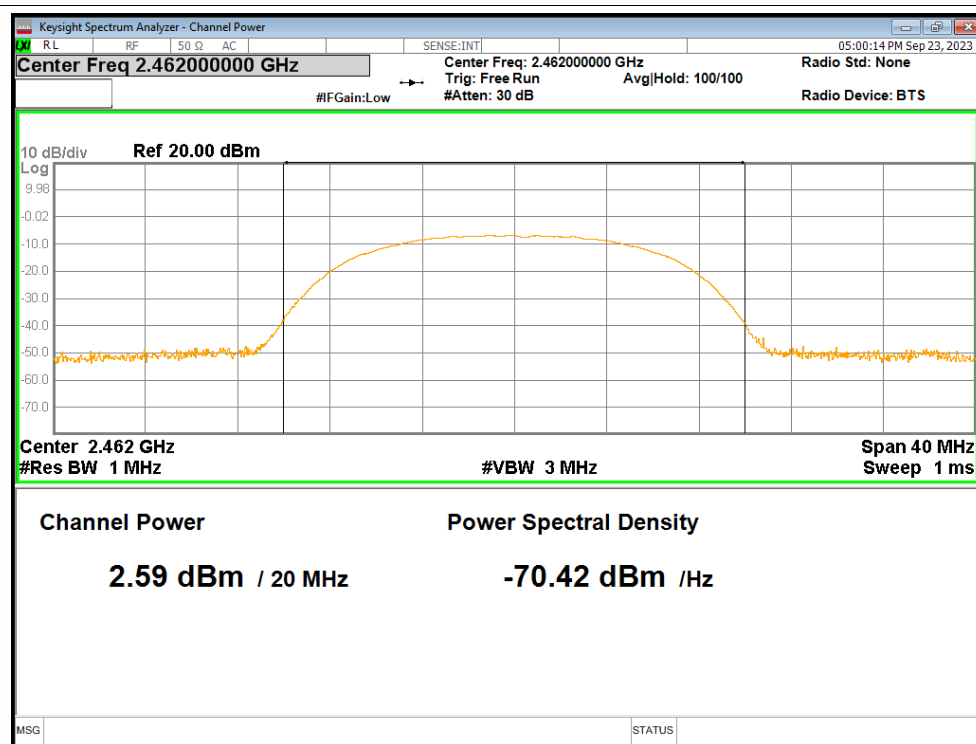
Peak Power NVNT b 2412MHz Ant2



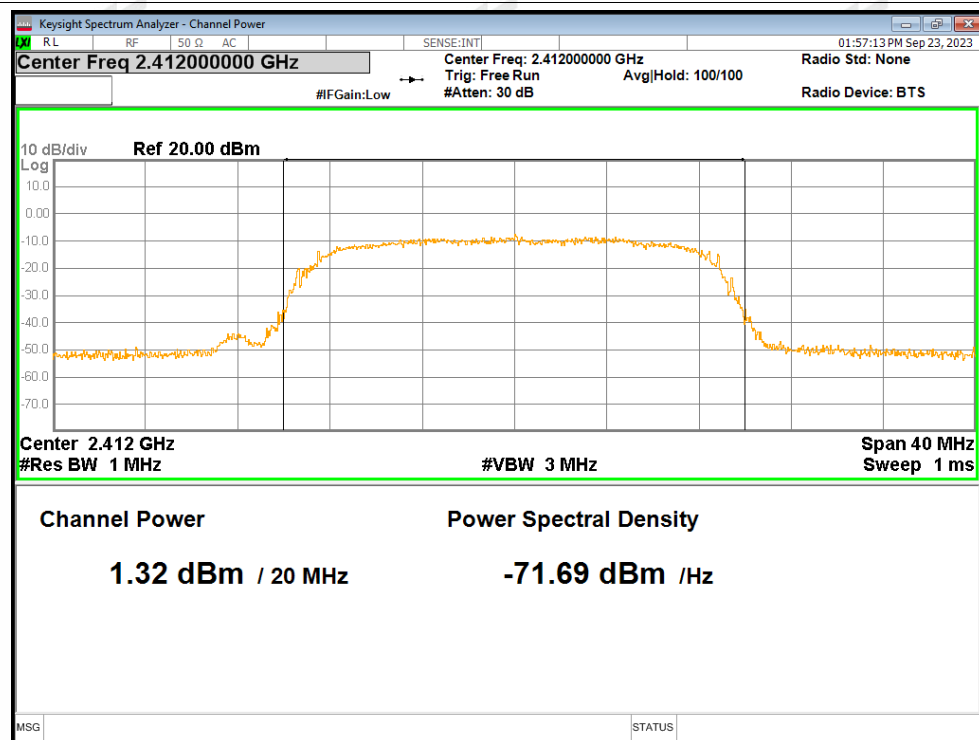
Peak Power NVNT b 2437MHz Ant2



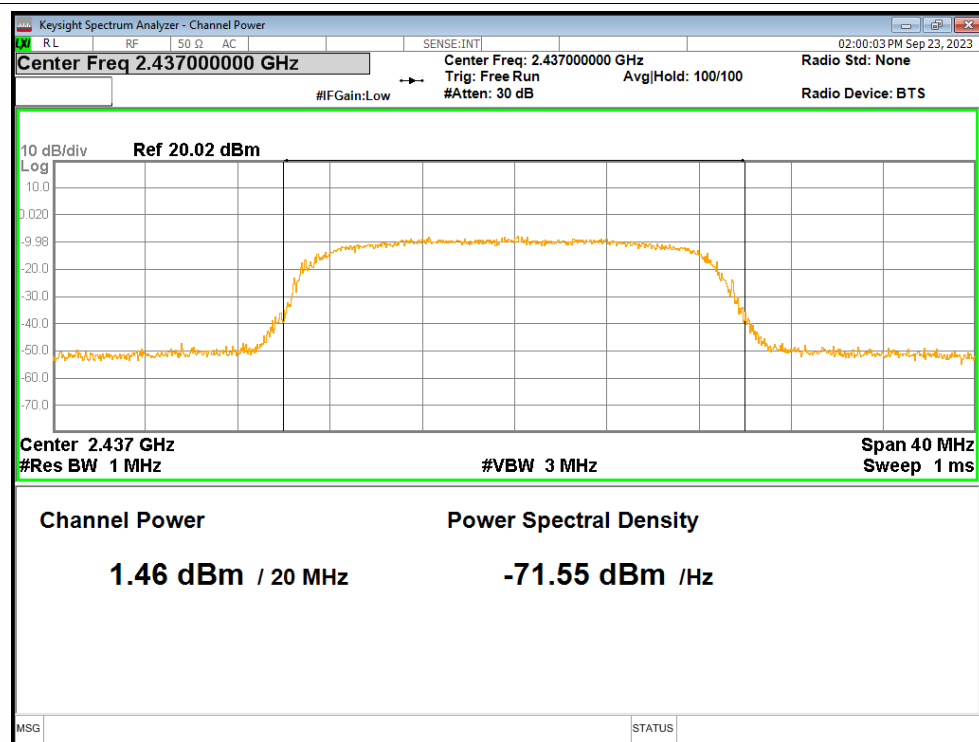
Peak Power NVNT b 2462MHz Ant2



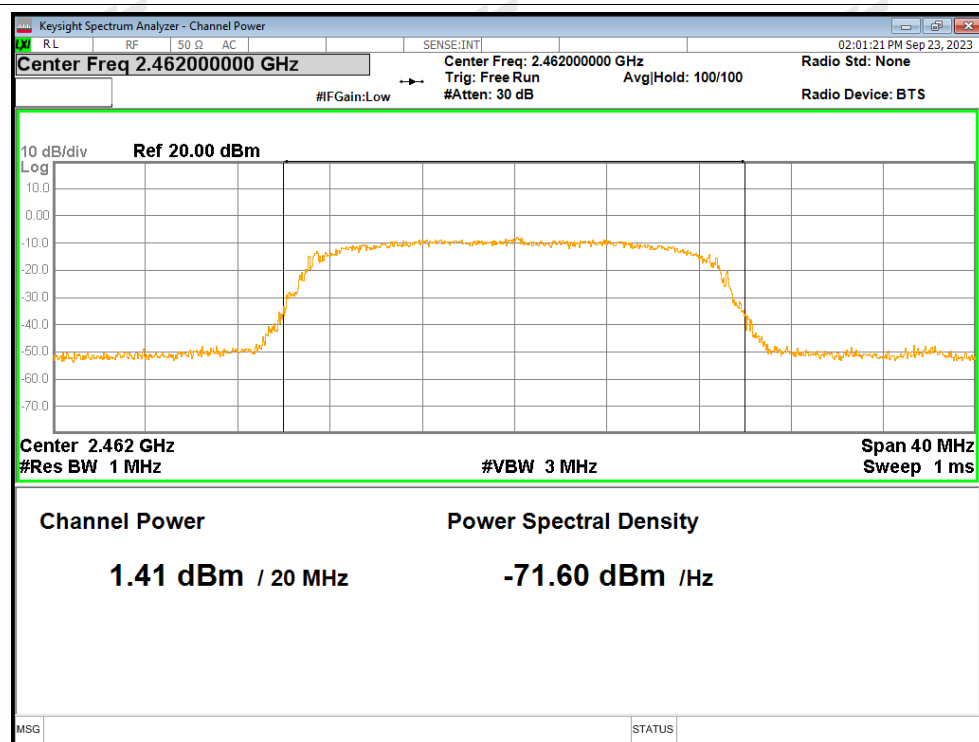
Peak Power NVNT g 2412MHz Ant1



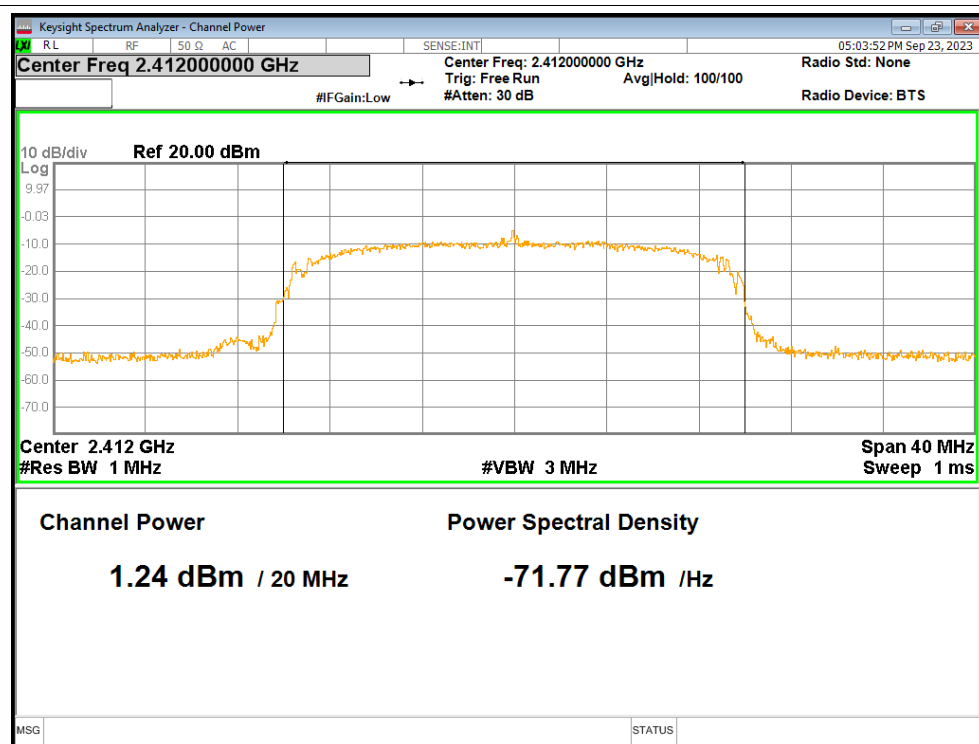
Peak Power NVNT g 2437MHz Ant1



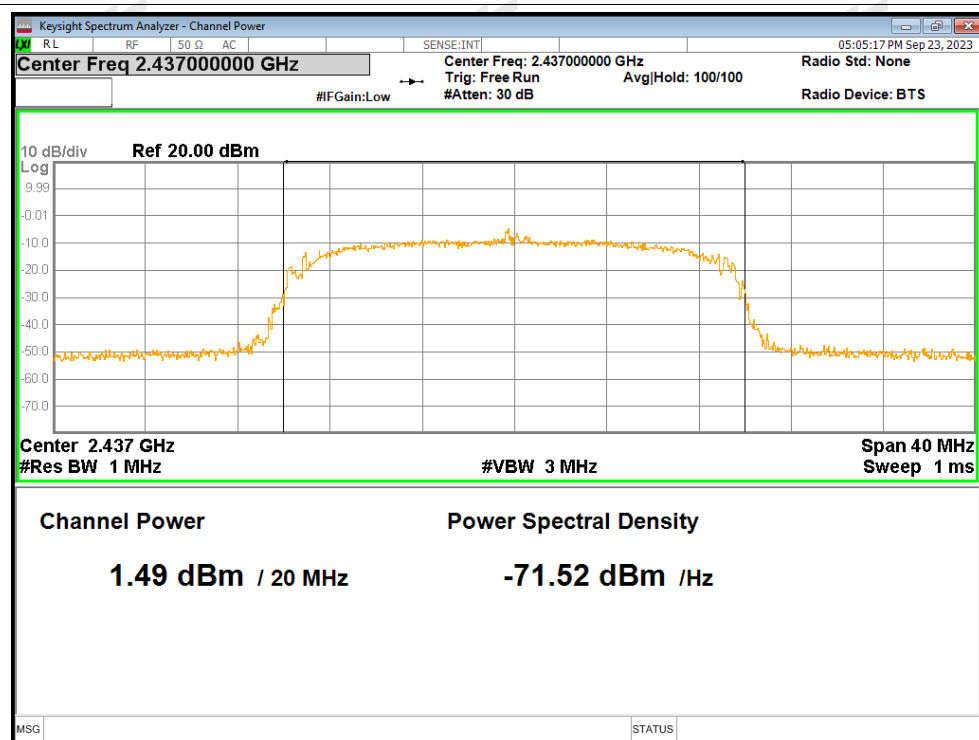
Peak Power NVNT g 2462MHz Ant1



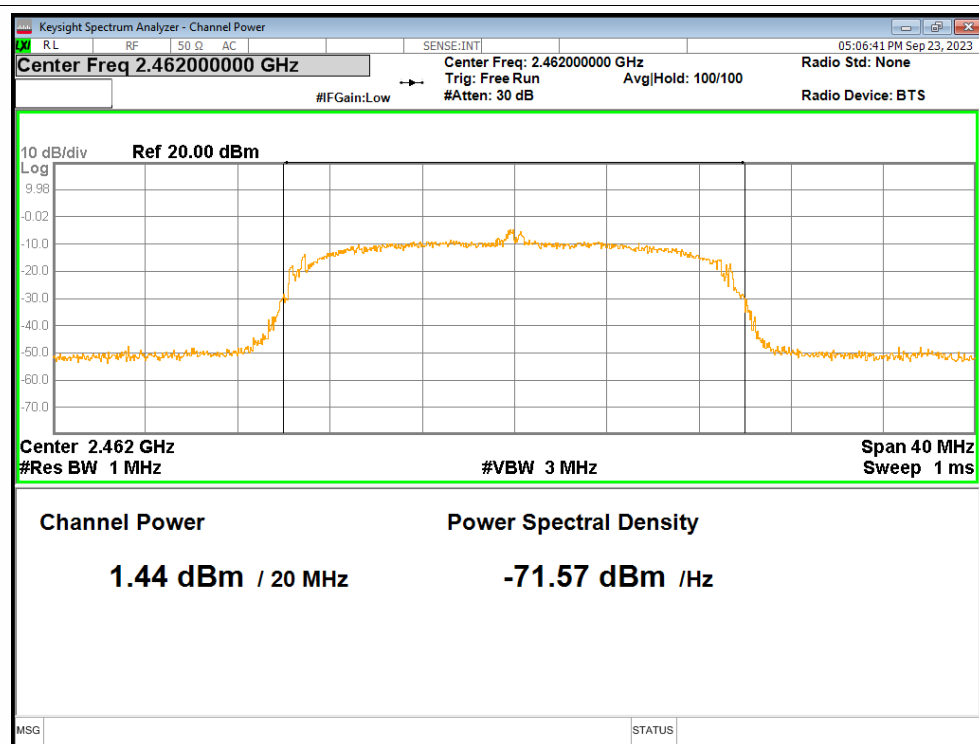
Peak Power NVNT g 2412MHz Ant2



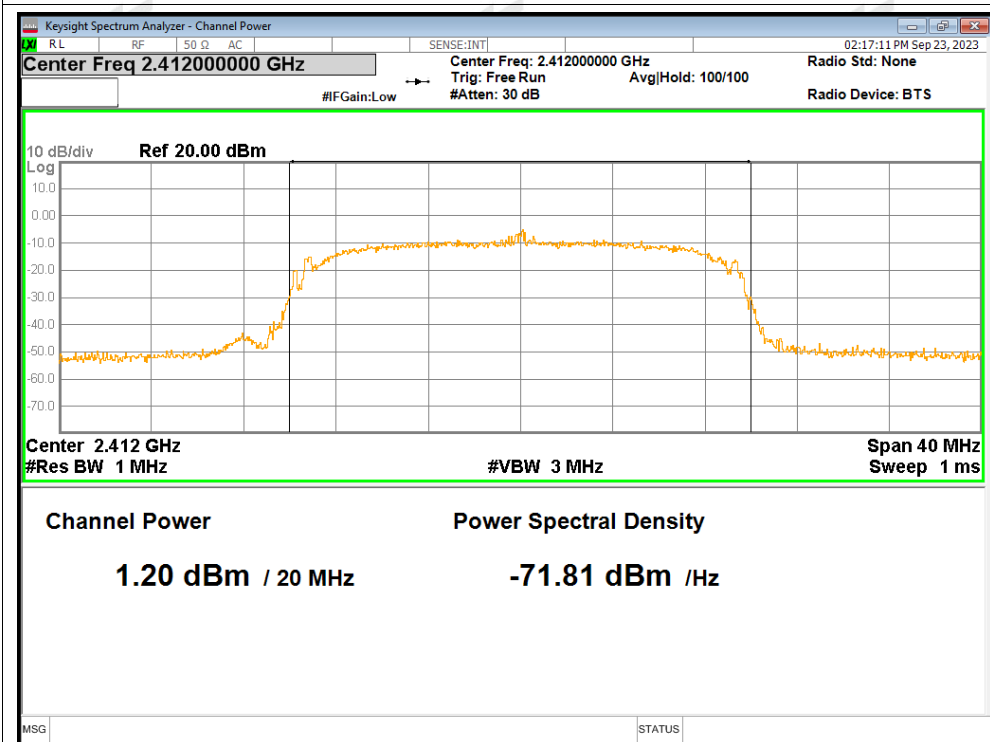
Peak Power NVNT g 2437MHz Ant2



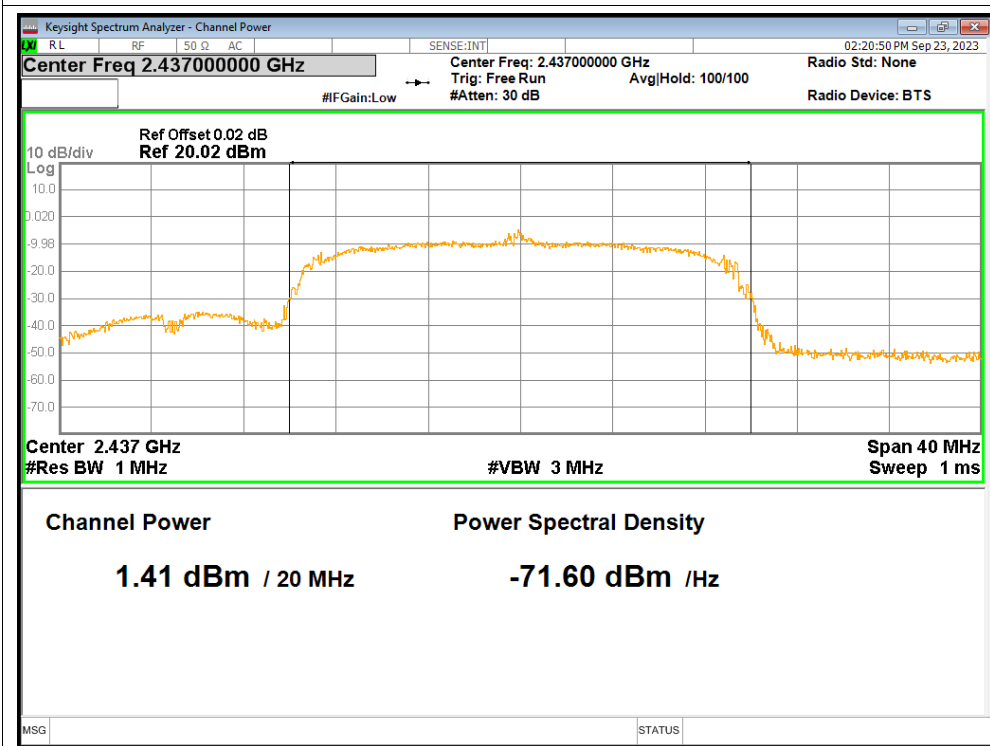
Peak Power NVNT g 2462MHz Ant2



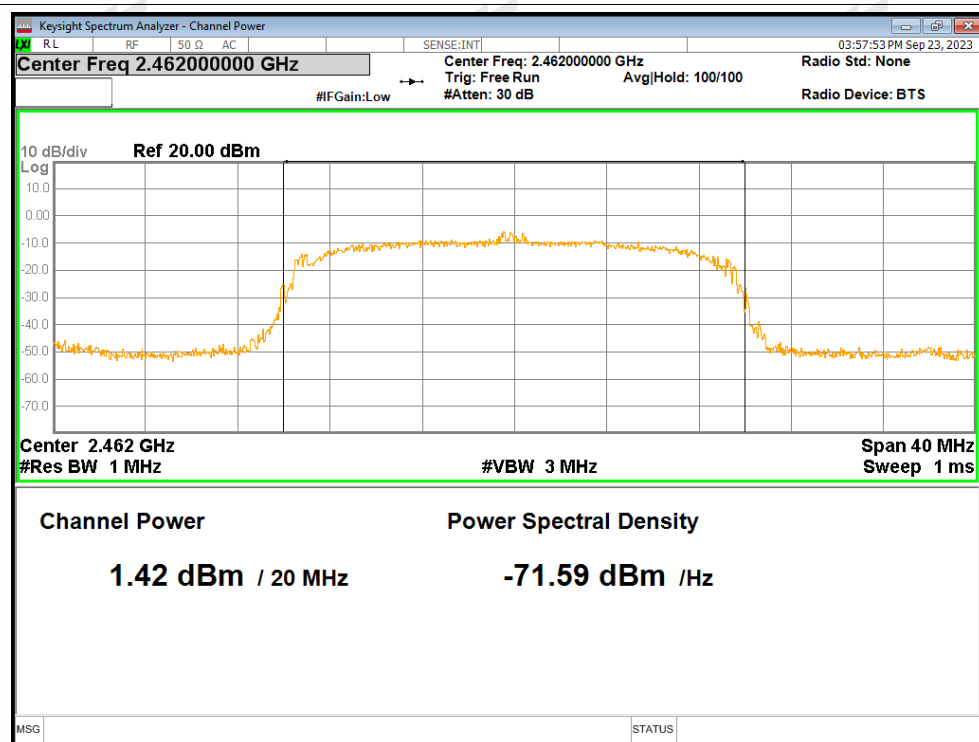
Peak Power NVNT n20 2412MHz Ant1



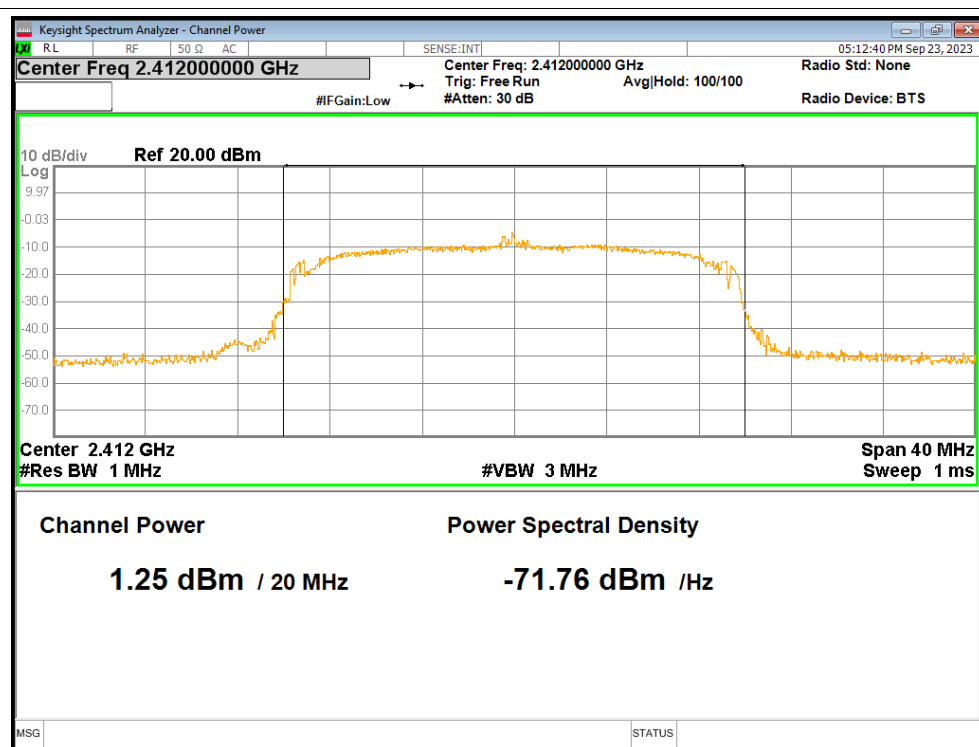
Peak Power NVNT n20 2437MHz Ant1



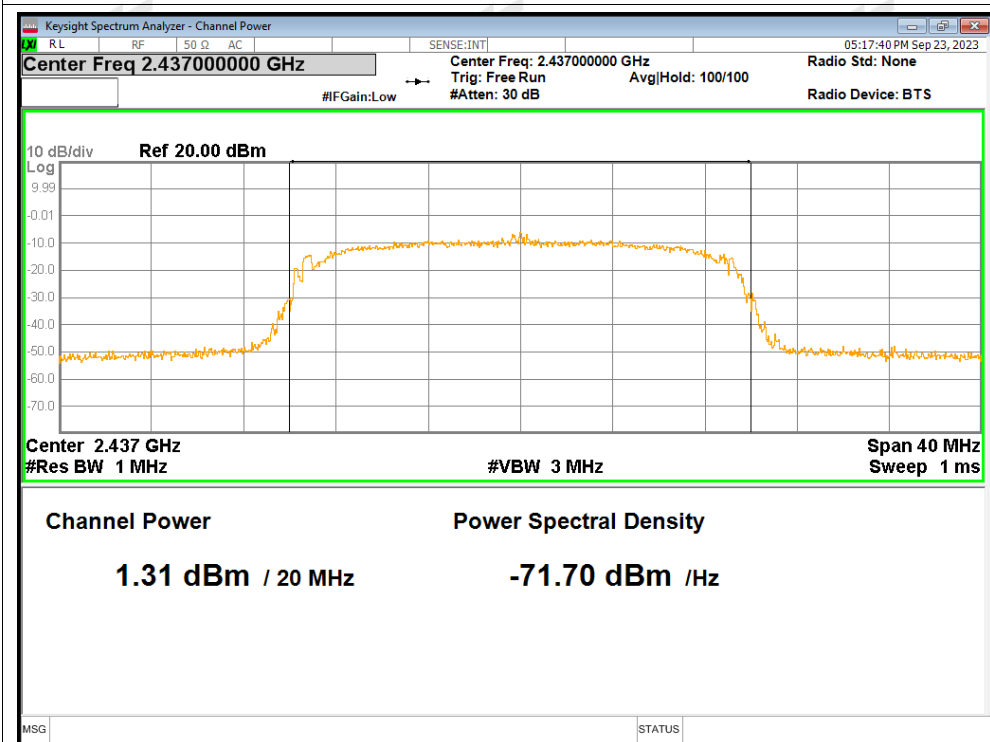
Peak Power NVNT n20 2462MHz Ant1



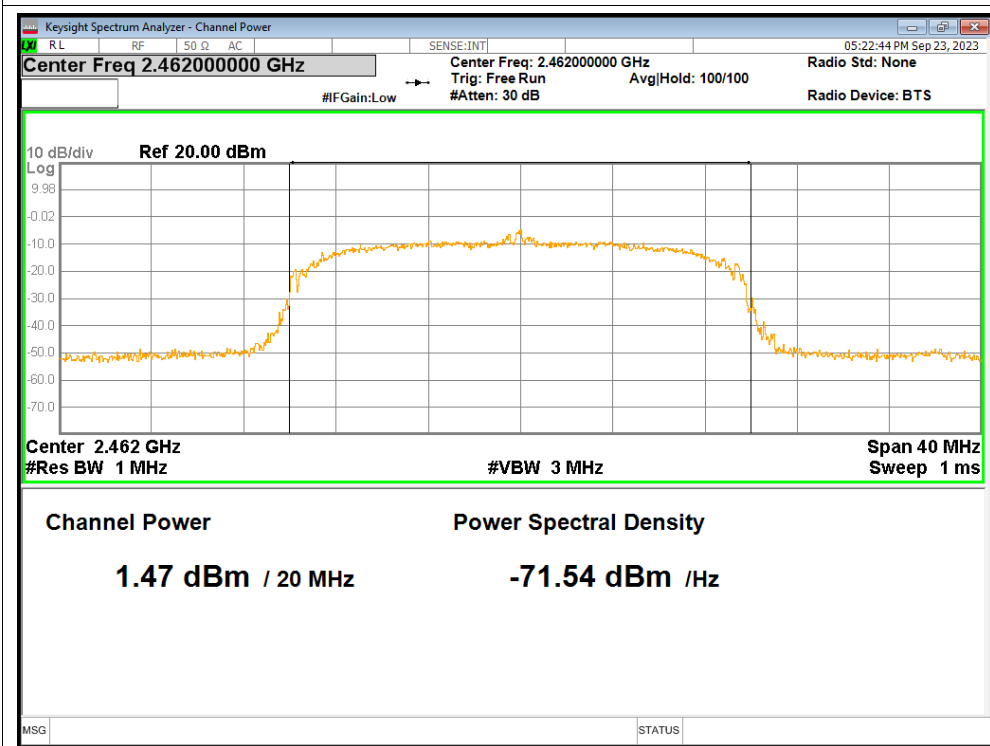
Peak Power NVNT n20 2412MHz Ant2



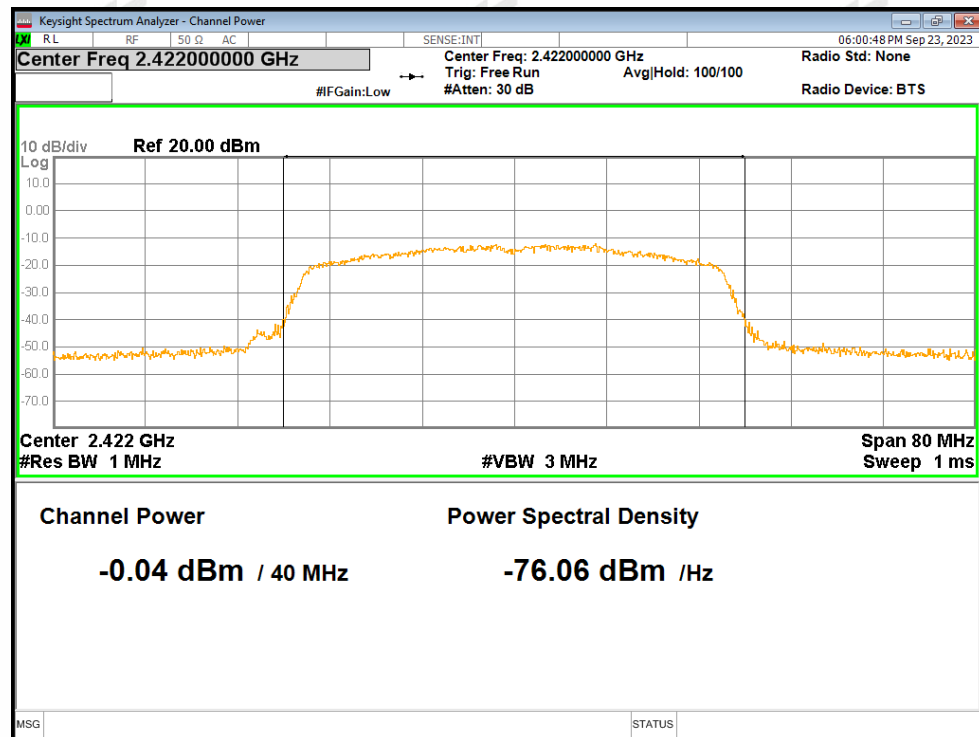
Peak Power NVNT n20 2437MHz Ant2



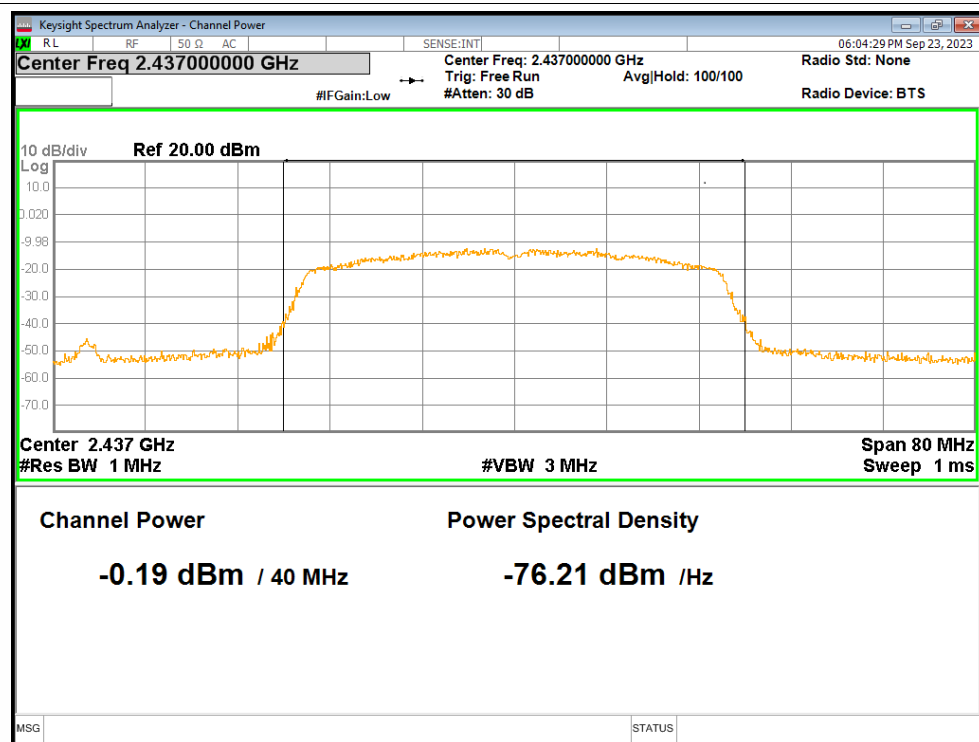
Peak Power NVNT n20 2462MHz Ant2



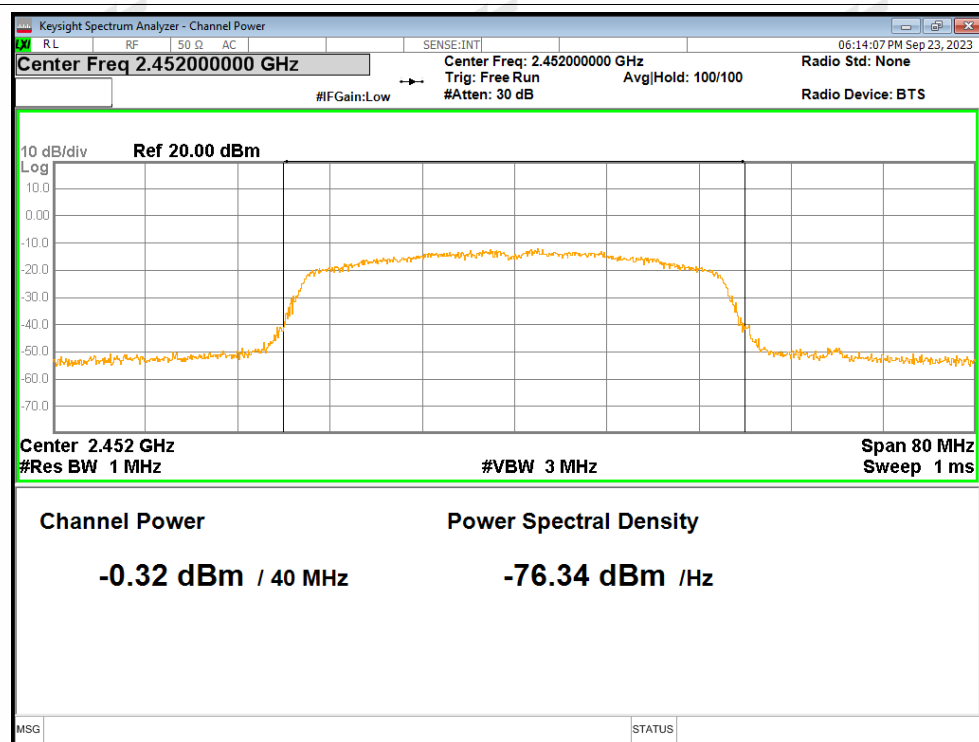
Peak Power NVNT n40 2422MHz Ant1



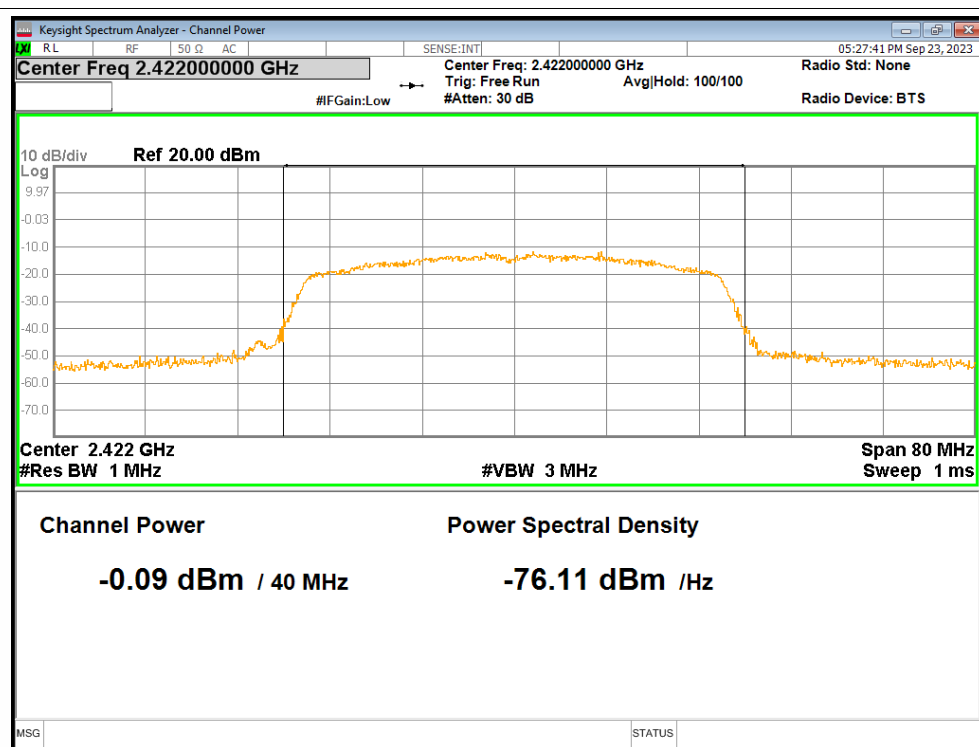
Peak Power NVNT n40 2437MHz Ant1



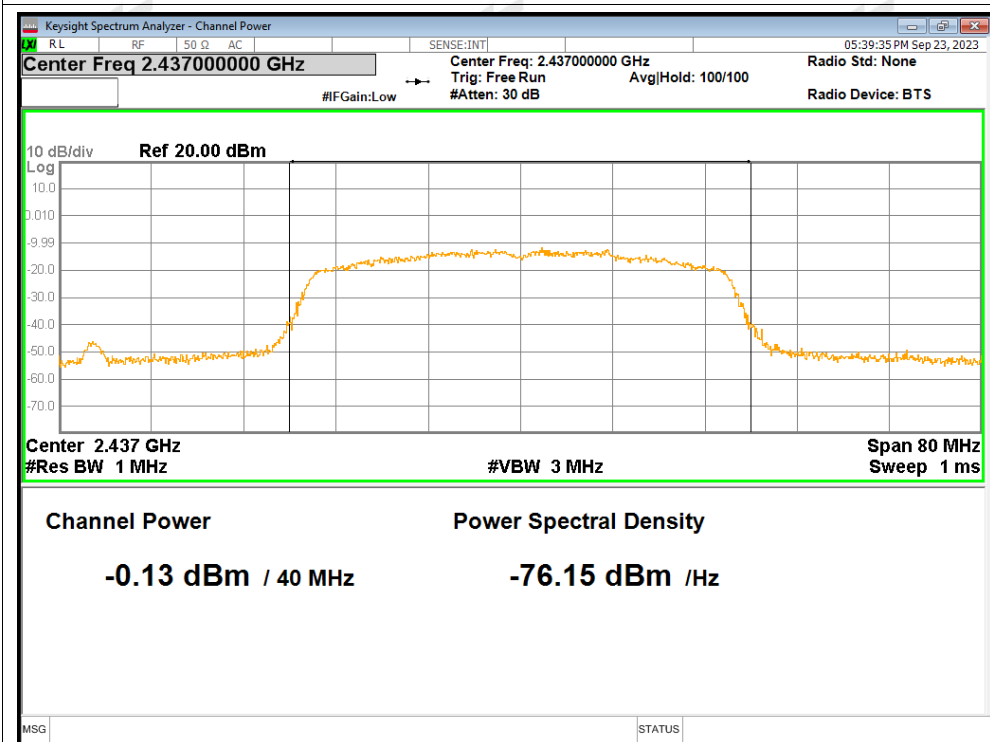
Peak Power NVNT n40 2452MHz Ant1



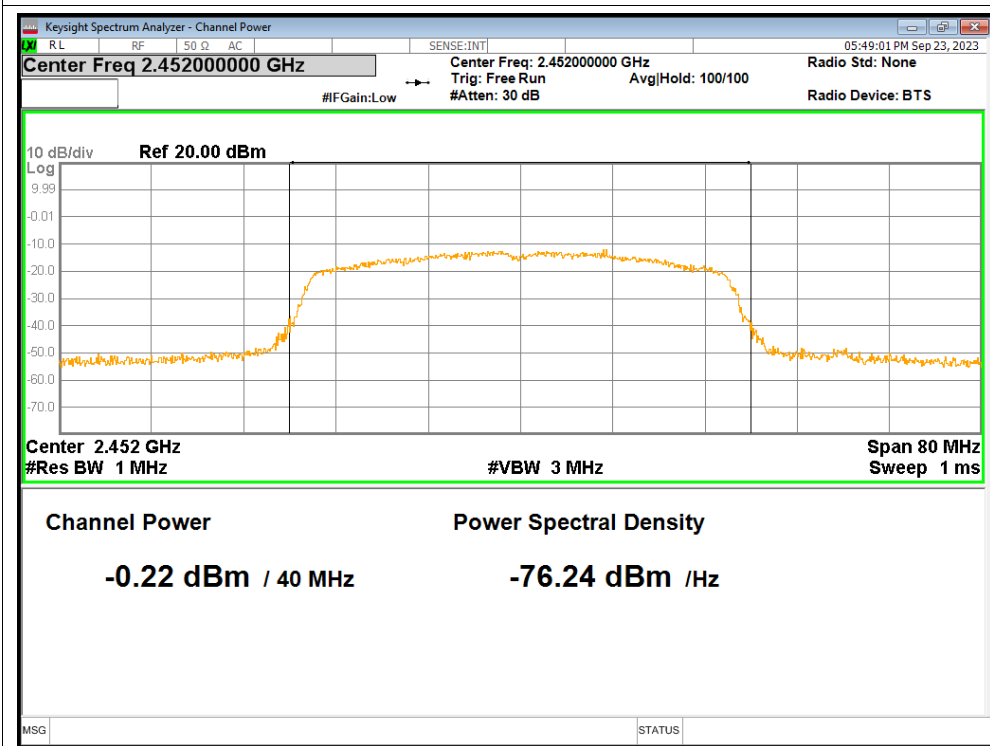
Peak Power NVNT n40 2422MHz Ant2



Peak Power NVNT n40 2437MHz Ant2



Peak Power NVNT n40 2452MHz Ant2



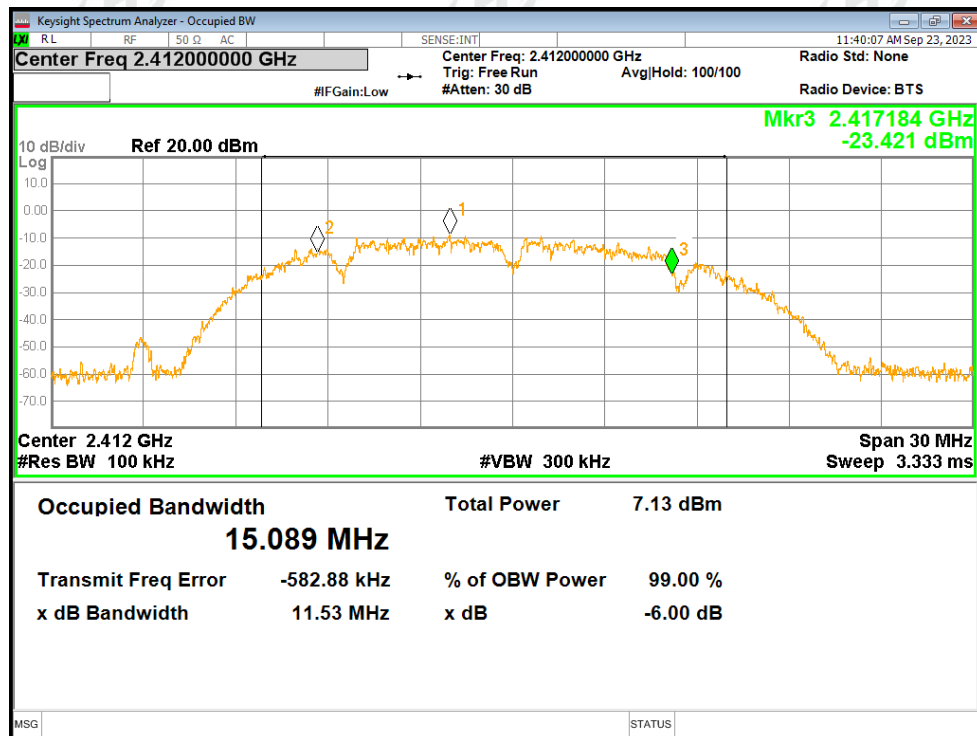


A4 -6dB Bandwidth

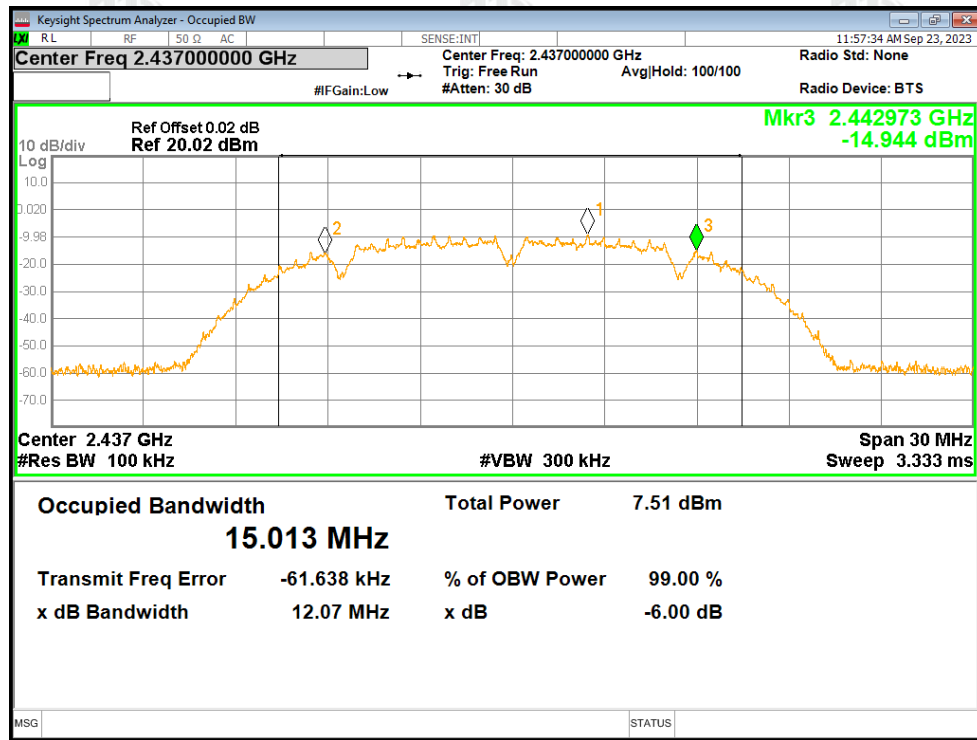
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	11.53	0.5	Pass
NVNT	b	2437	Ant1	12.07	0.5	Pass
NVNT	b	2462	Ant1	12.02	0.5	Pass
NVNT	b	2412	Ant2	12.07	0.5	Pass
NVNT	b	2437	Ant2	11.10	0.5	Pass
NVNT	b	2462	Ant2	12.07	0.5	Pass
NVNT	g	2412	Ant1	15.14	0.5	Pass
NVNT	g	2437	Ant1	15.09	0.5	Pass
NVNT	g	2462	Ant1	15.01	0.5	Pass
NVNT	g	2412	Ant2	13.84	0.5	Pass
NVNT	g	2437	Ant2	13.84	0.5	Pass
NVNT	g	2462	Ant2	10.00	0.5	Pass
NVNT	n20	2412	Ant1	13.81	0.5	Pass
NVNT	n20	2437	Ant1	14.98	0.5	Pass
NVNT	n20	2462	Ant1	13.77	0.5	Pass
NVNT	n20	2412	Ant2	12.84	0.5	Pass
NVNT	n20	2437	Ant2	13.83	0.5	Pass
NVNT	n20	2462	Ant2	12.17	0.5	Pass
NVNT	n40	2422	Ant1	33.80	0.5	Pass
NVNT	n40	2437	Ant1	28.80	0.5	Pass
NVNT	n40	2452	Ant1	31.29	0.5	Pass
NVNT	n40	2422	Ant2	31.31	0.5	Pass
NVNT	n40	2437	Ant2	30.07	0.5	Pass
NVNT	n40	2452	Ant2	31.29	0.5	Pass

Test Graphs

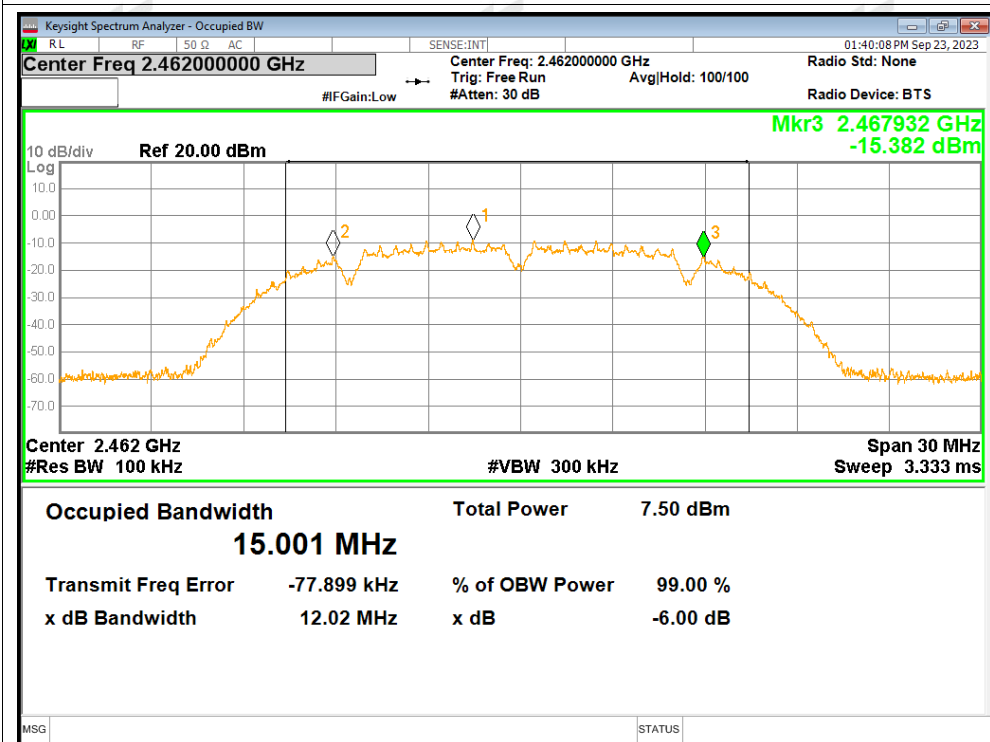
-6dB Bandwidth NVNT b 2412MHz Ant1



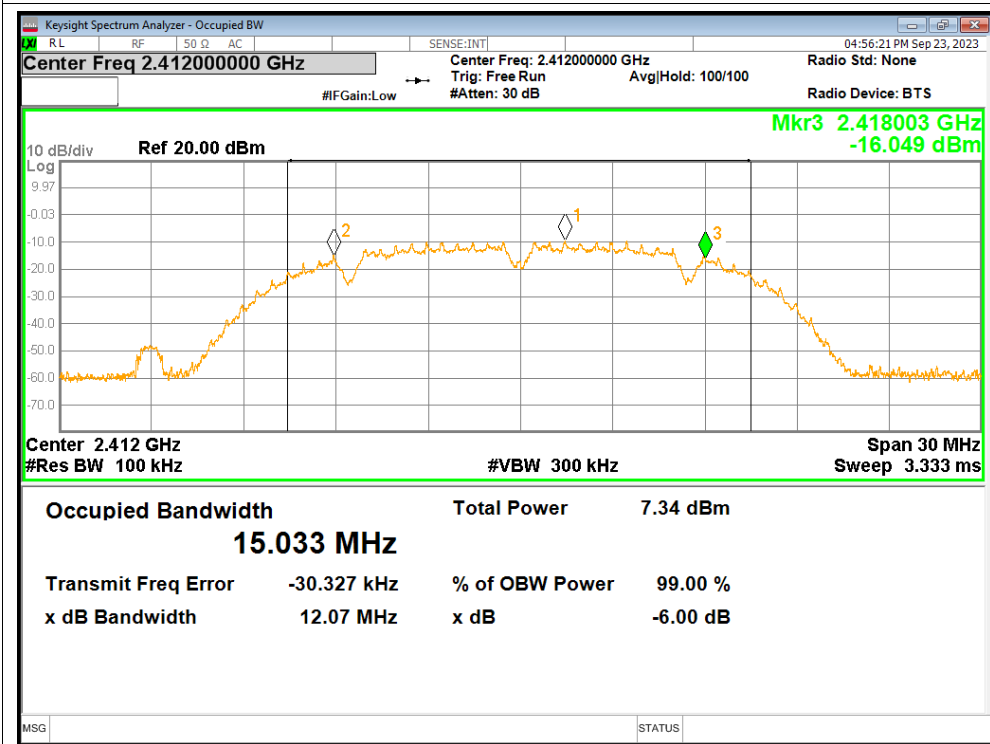
-6dB Bandwidth NVNT b 2437MHz Ant1



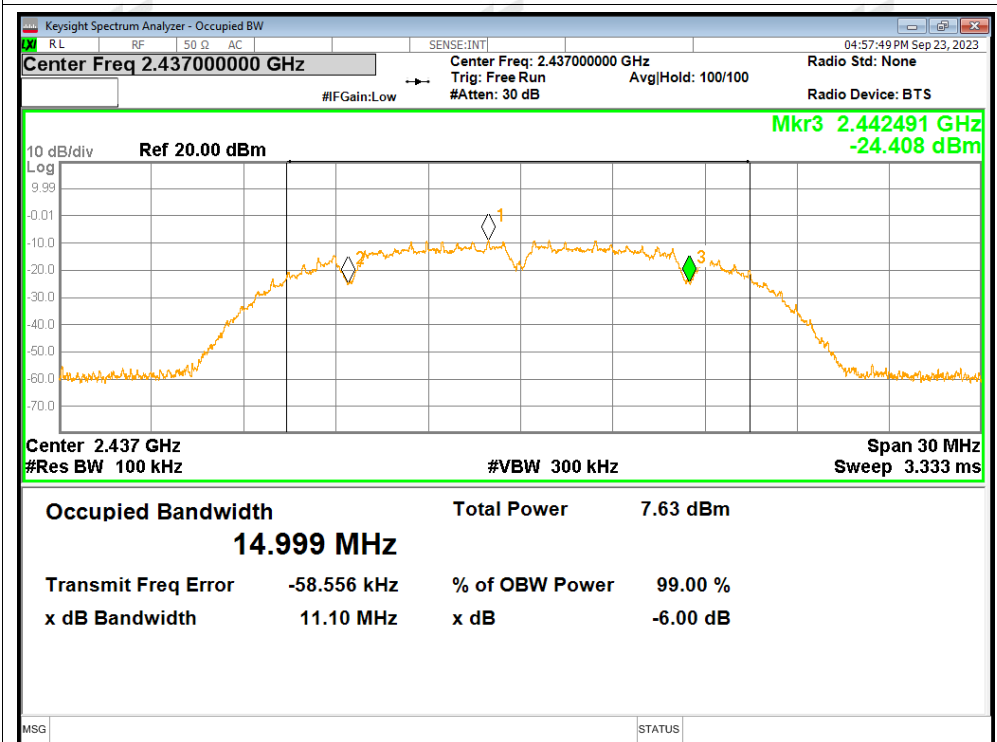
-6dB Bandwidth NVNT b 2462MHz Ant1



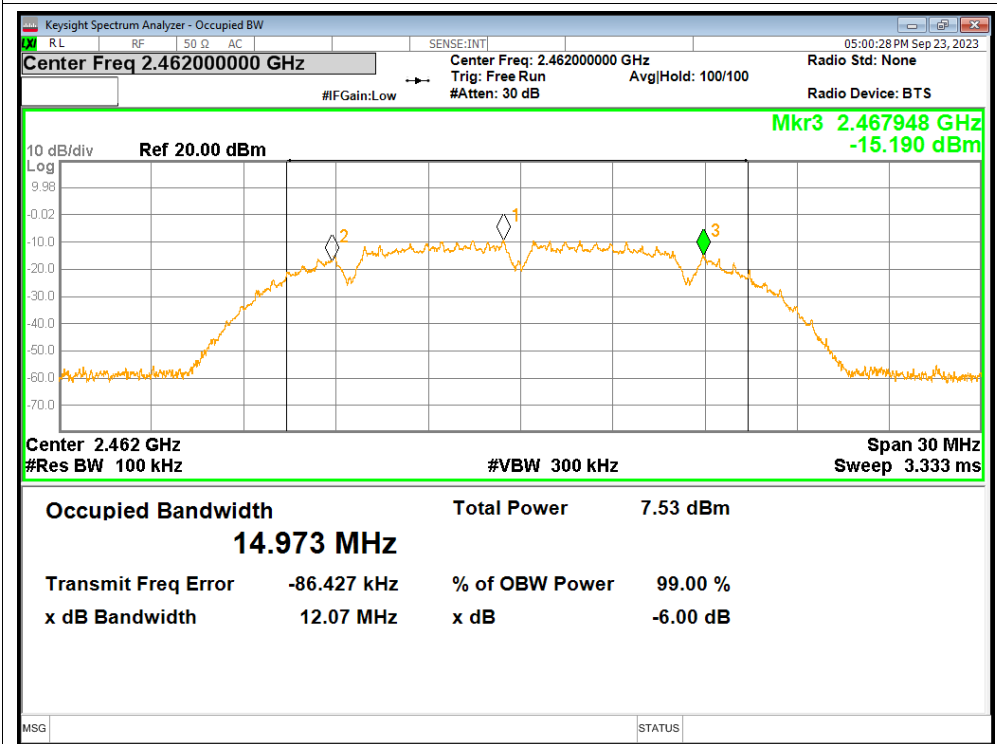
-6dB Bandwidth NVNT b 2412MHz Ant2



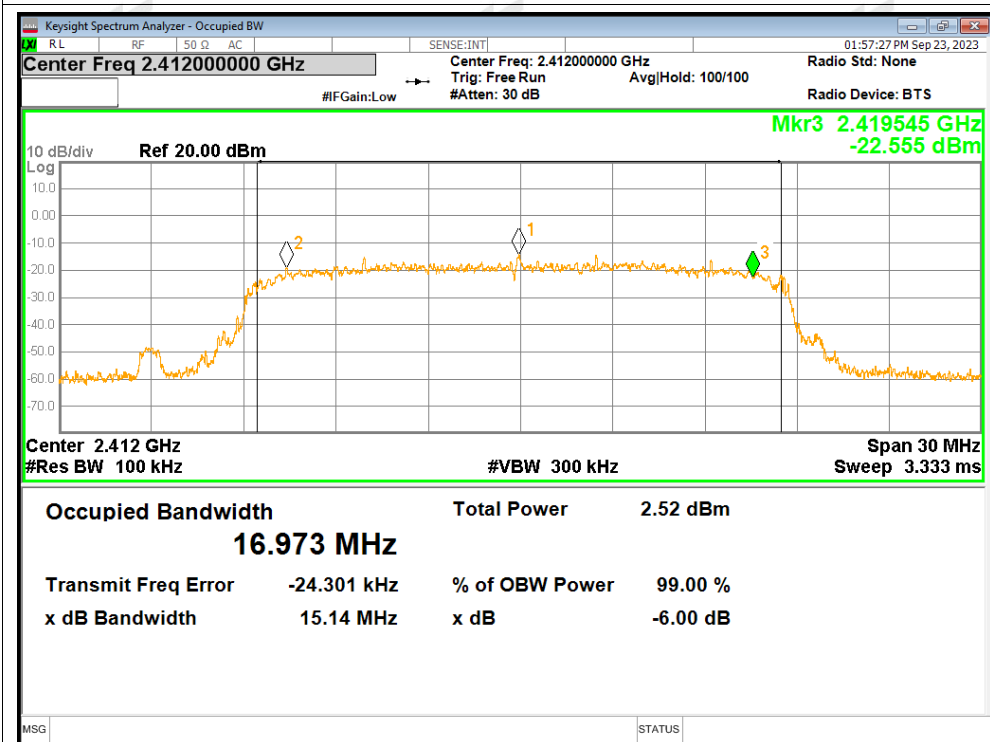
-6dB Bandwidth NVNT b 2437MHz Ant2



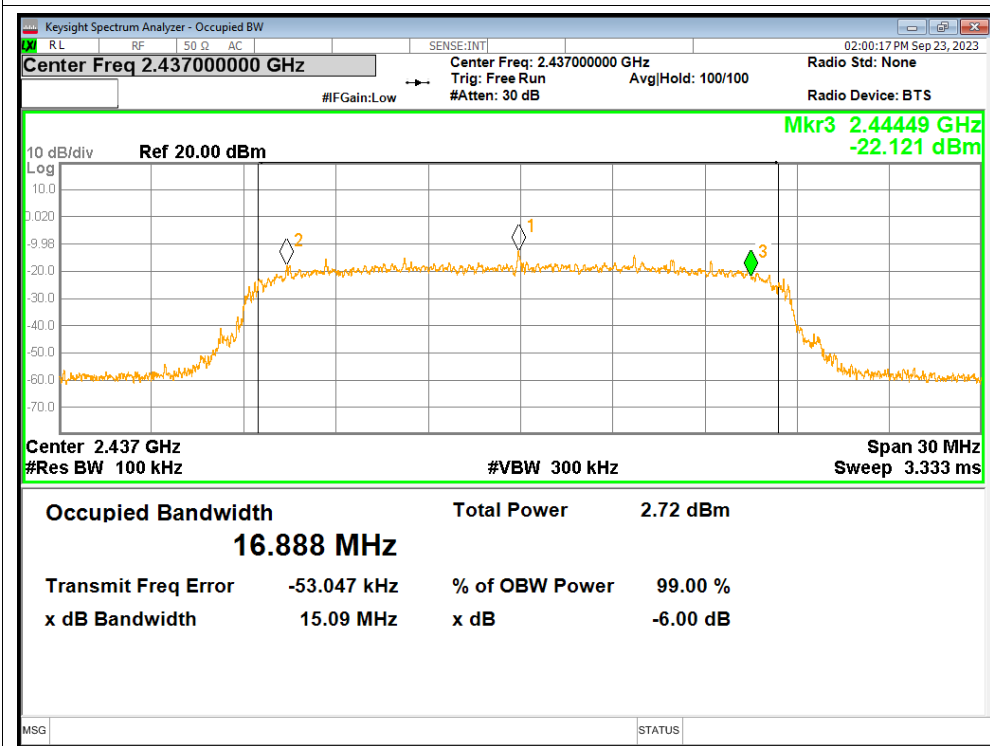
-6dB Bandwidth NVNT b 2462MHz Ant2



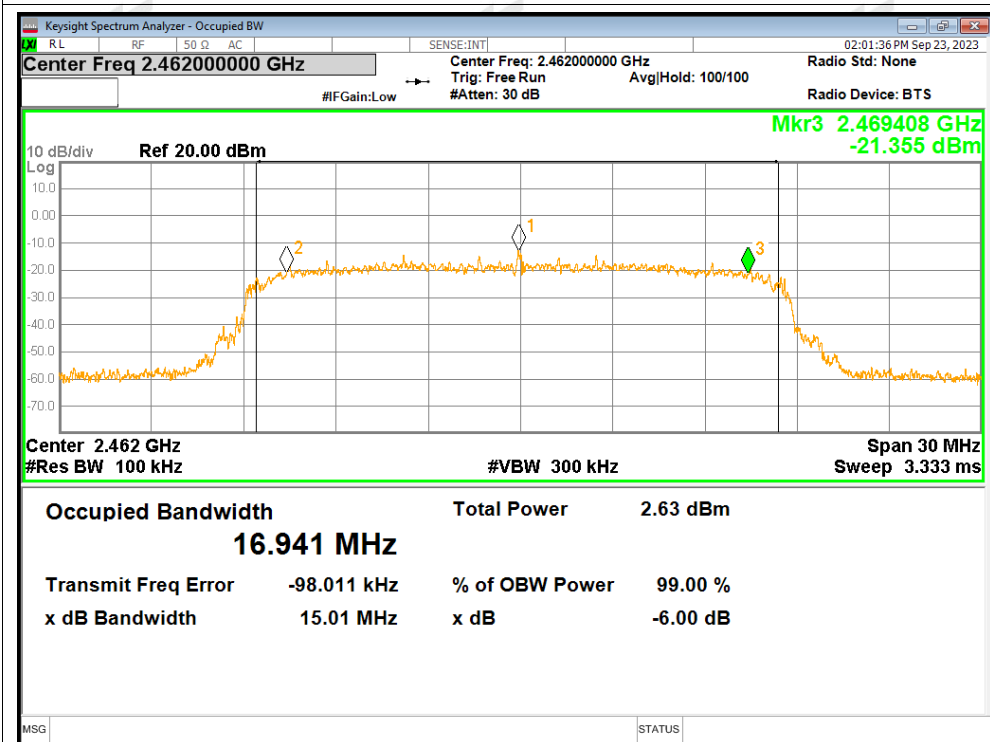
-6dB Bandwidth NVNT g 2412MHz Ant1



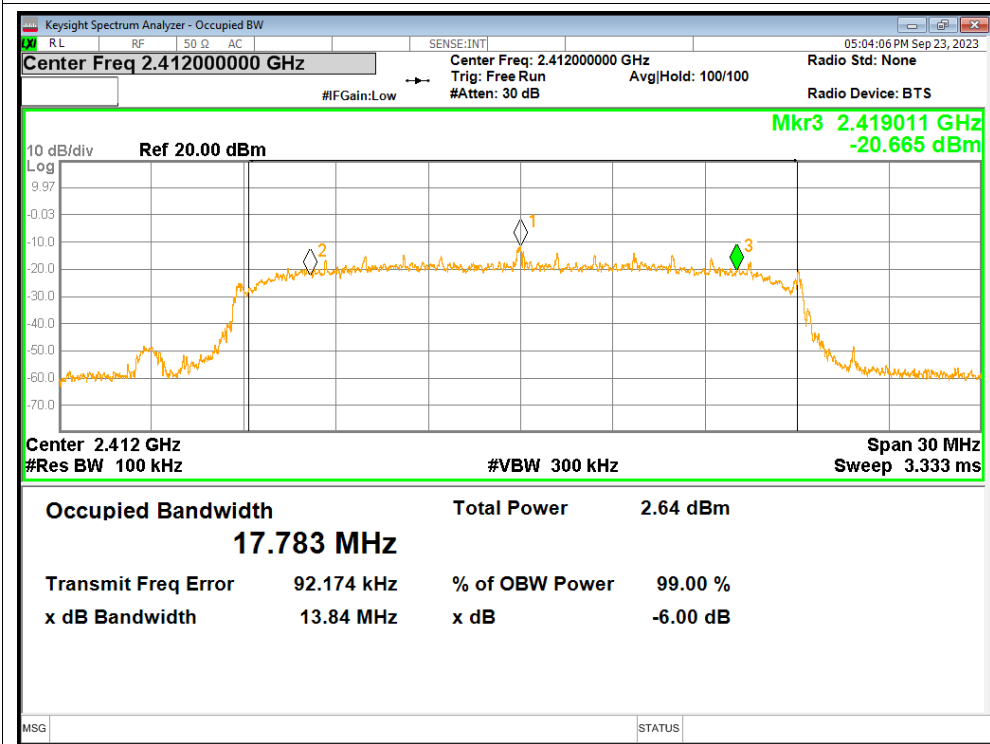
-6dB Bandwidth NVNT g 2437MHz Ant1



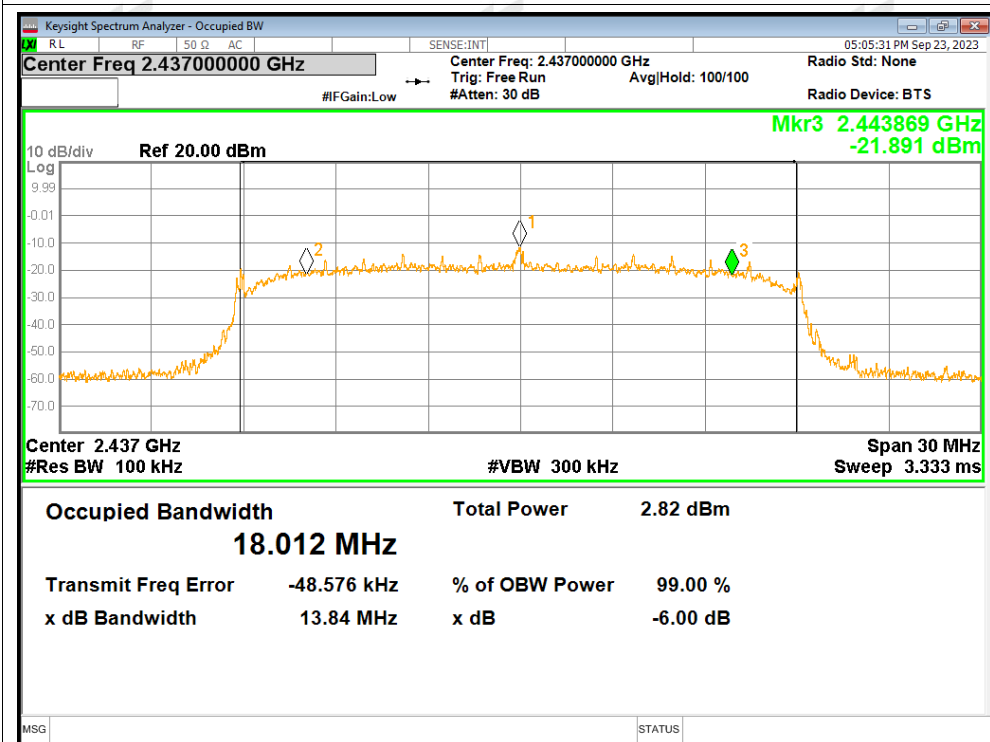
-6dB Bandwidth NVNT g 2462MHz Ant1



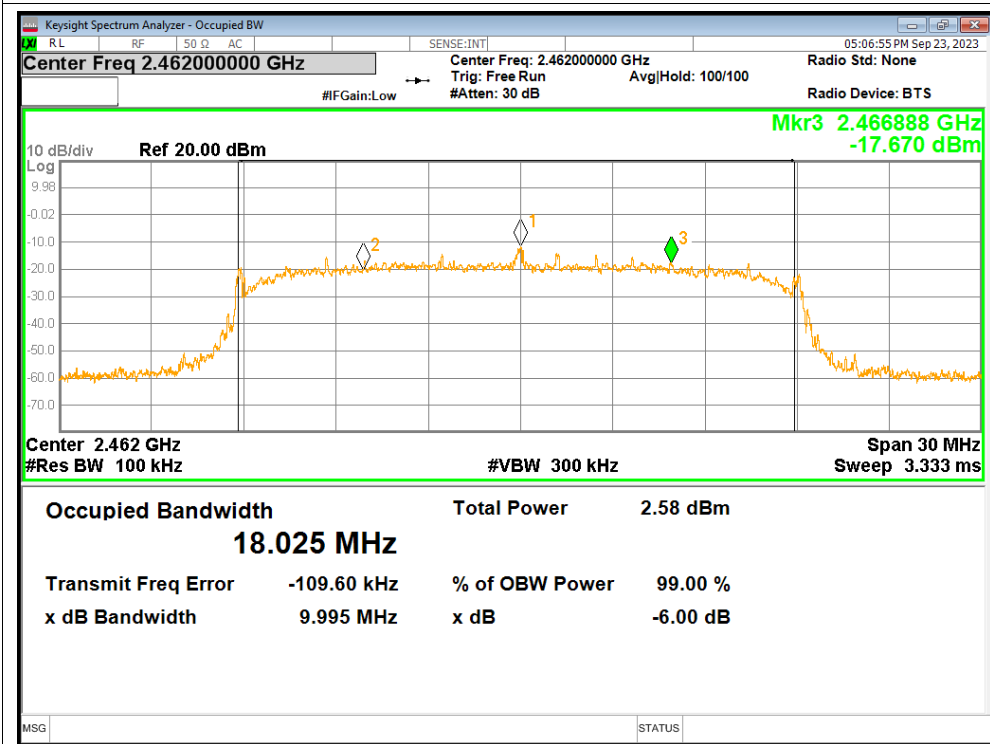
-6dB Bandwidth NVNT g 2412MHz Ant2



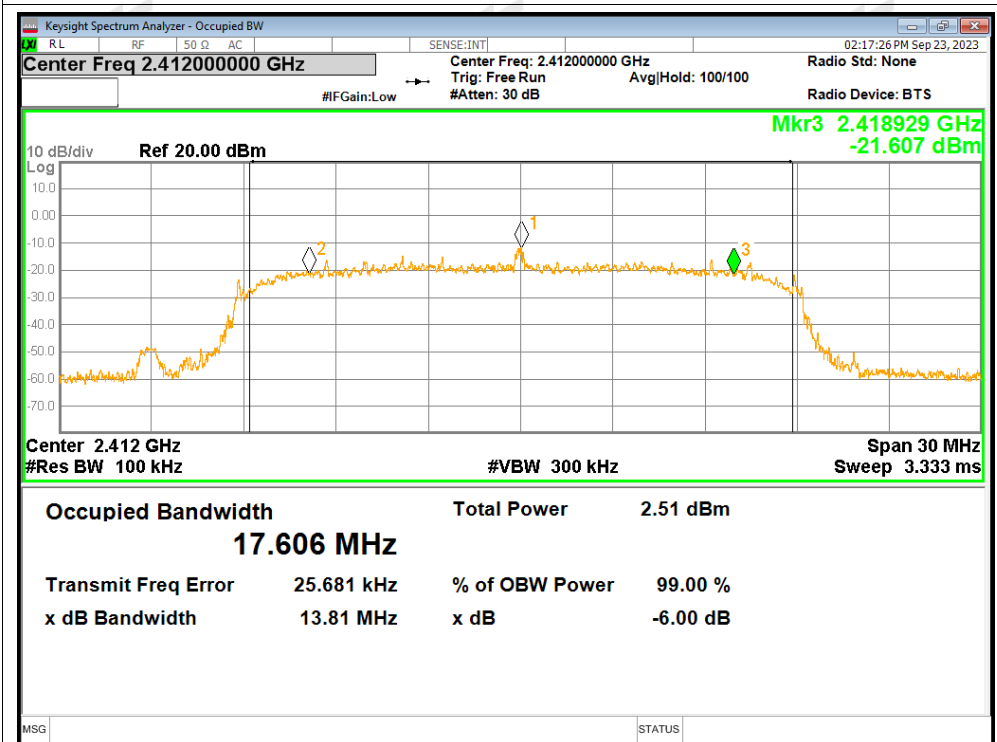
-6dB Bandwidth NVNT g 2437MHz Ant2



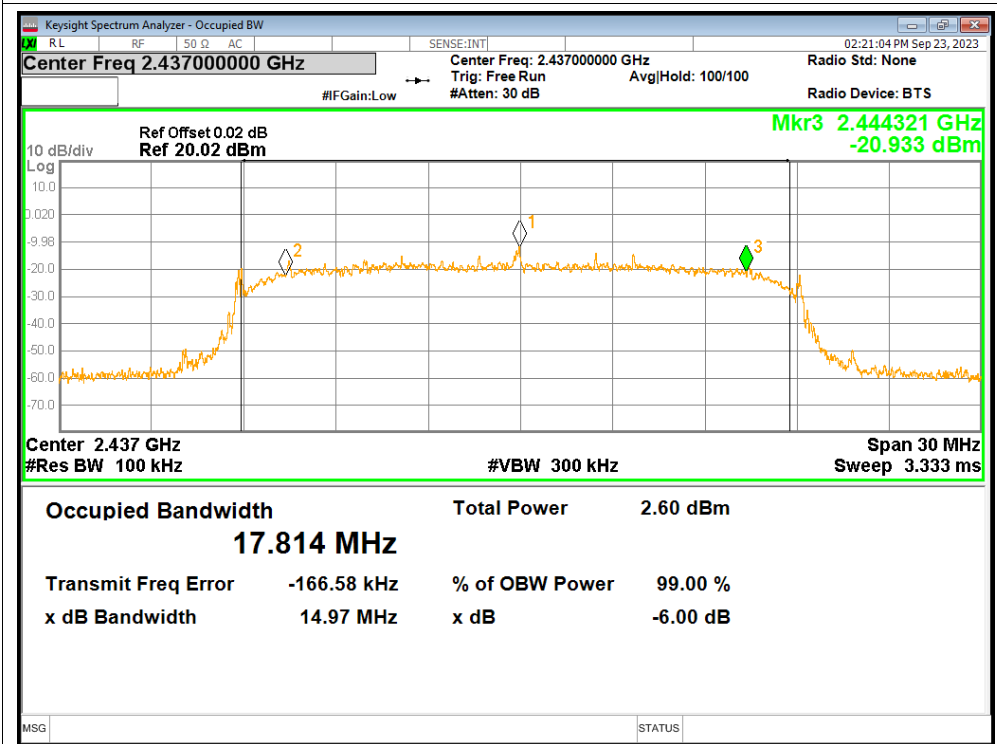
-6dB Bandwidth NVNT g 2462MHz Ant2



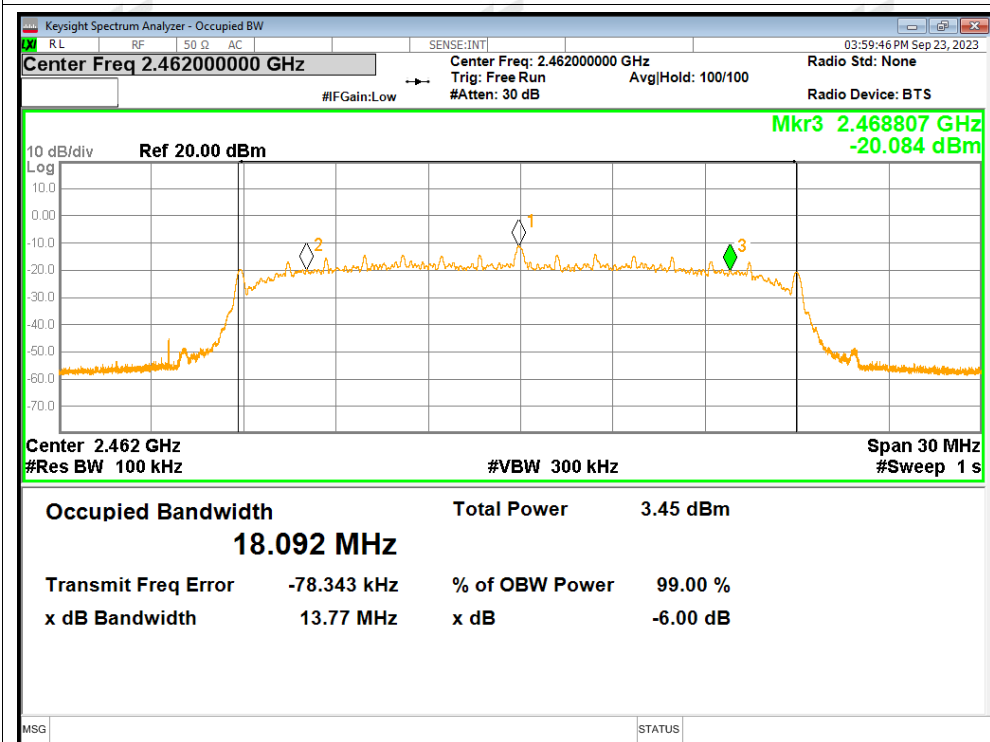
-6dB Bandwidth NVNT n20 2412MHz Ant1



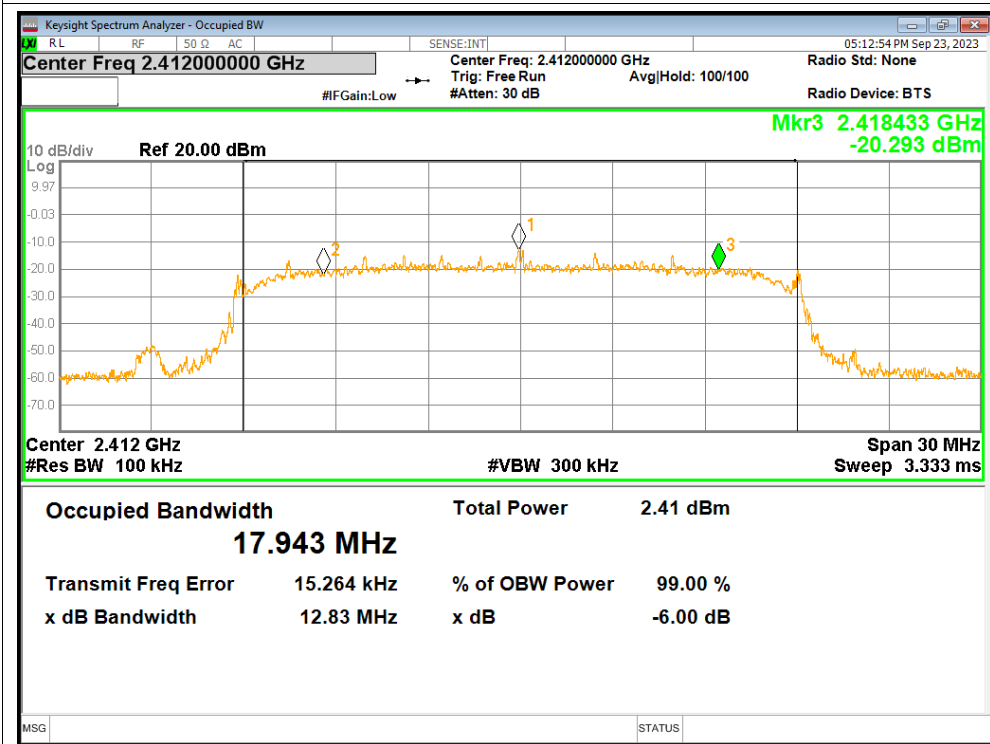
-6dB Bandwidth NVNT n20 2437MHz Ant1



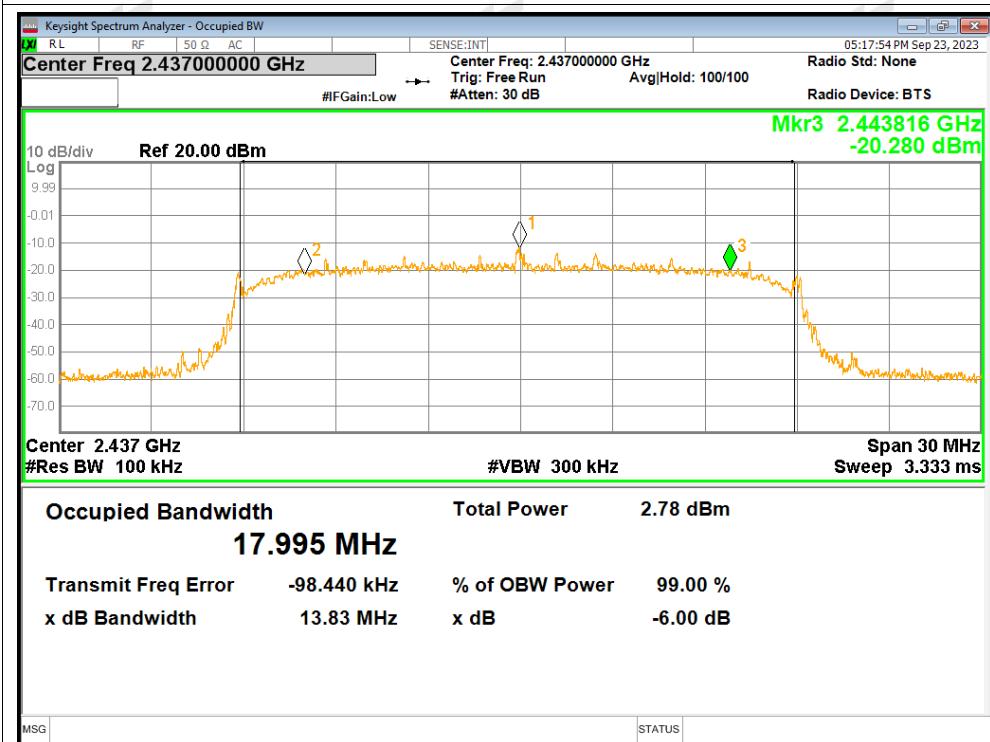
-6dB Bandwidth NVNT n20 2462MHz Ant1



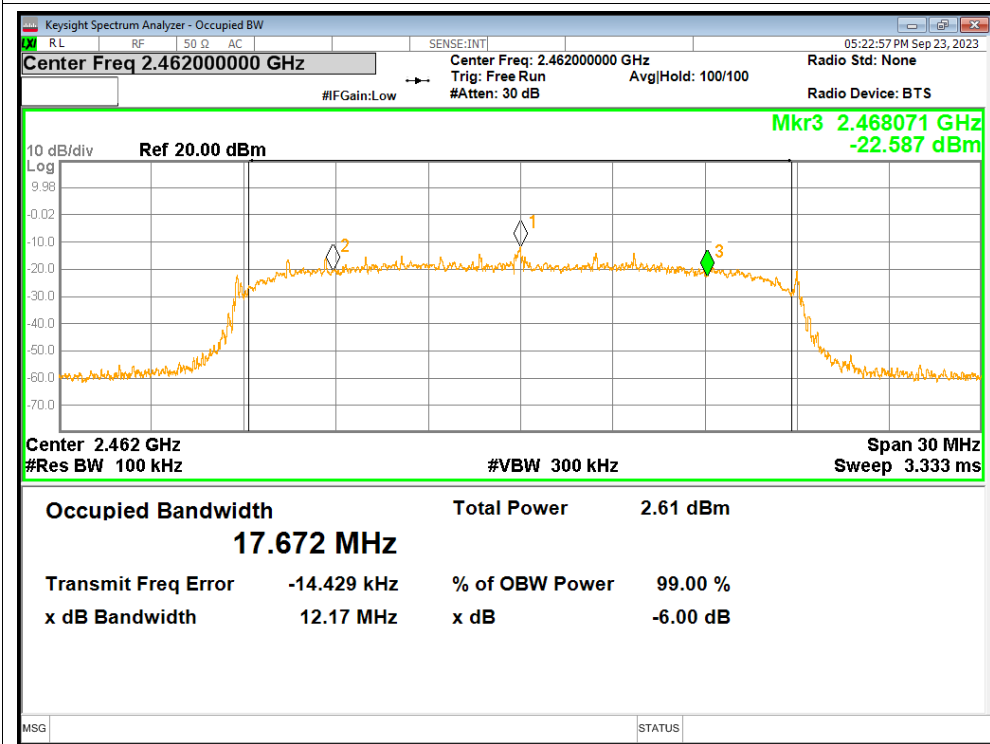
-6dB Bandwidth NVNT n20 2412MHz Ant2



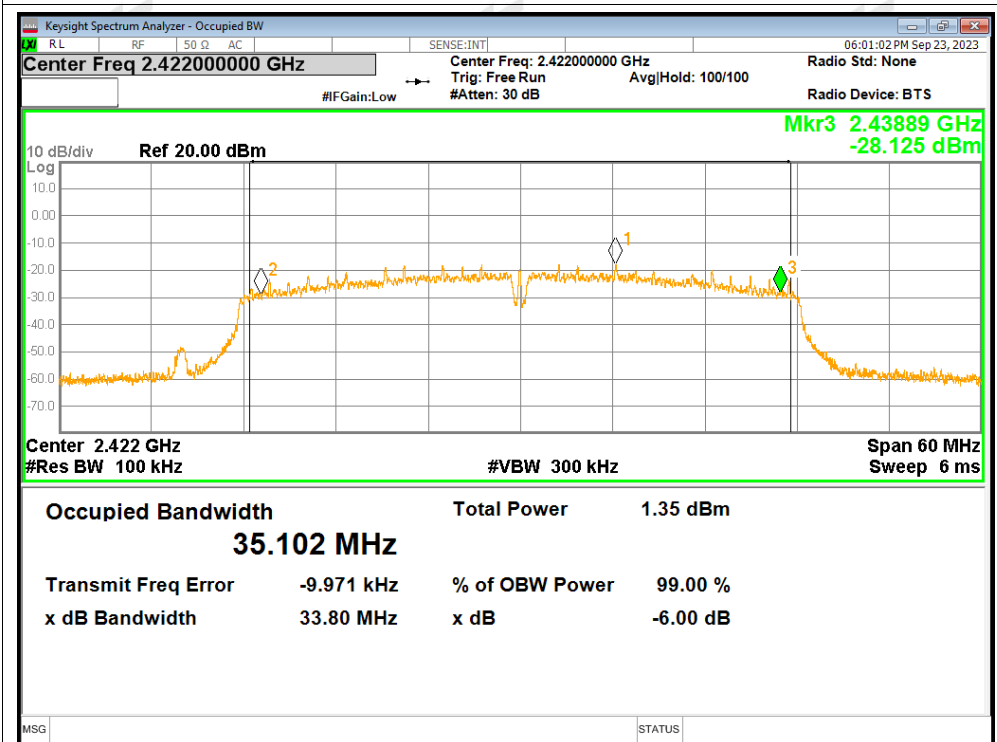
-6dB Bandwidth NVNT n20 2437MHz Ant2



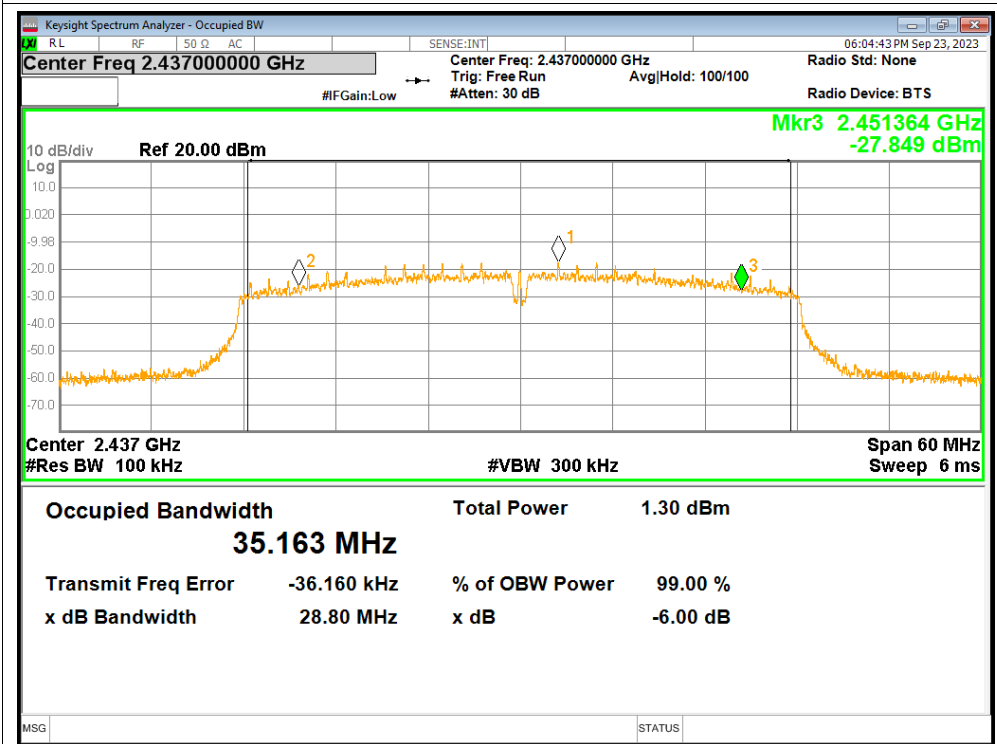
-6dB Bandwidth NVNT n20 2462MHz Ant2



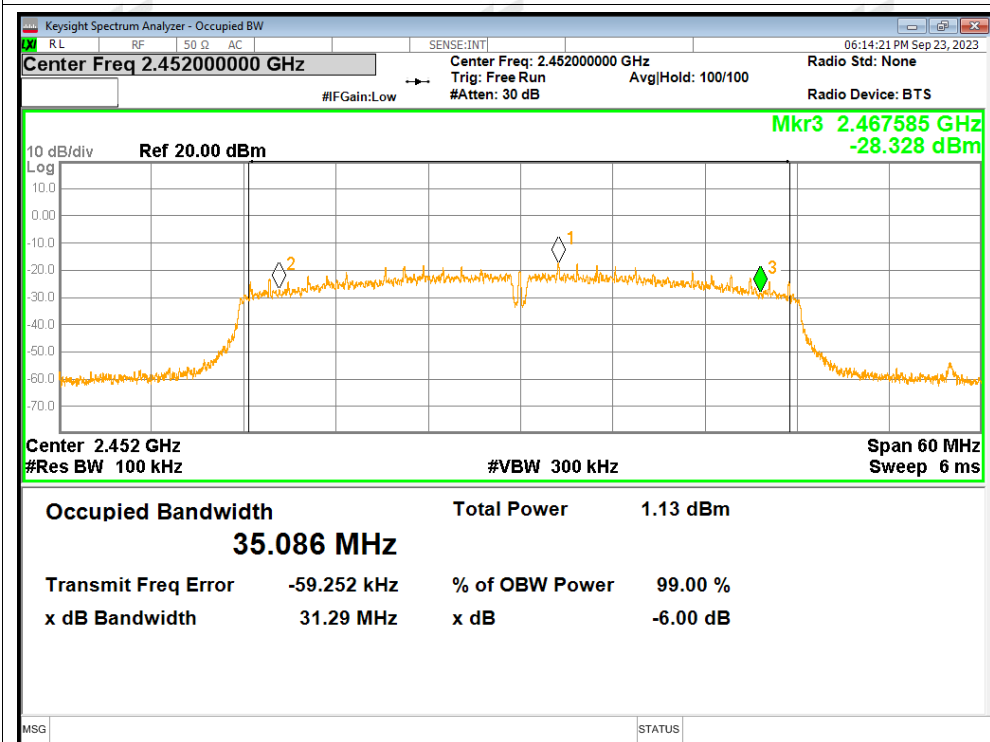
-6dB Bandwidth NVNT n40 2422MHz Ant1



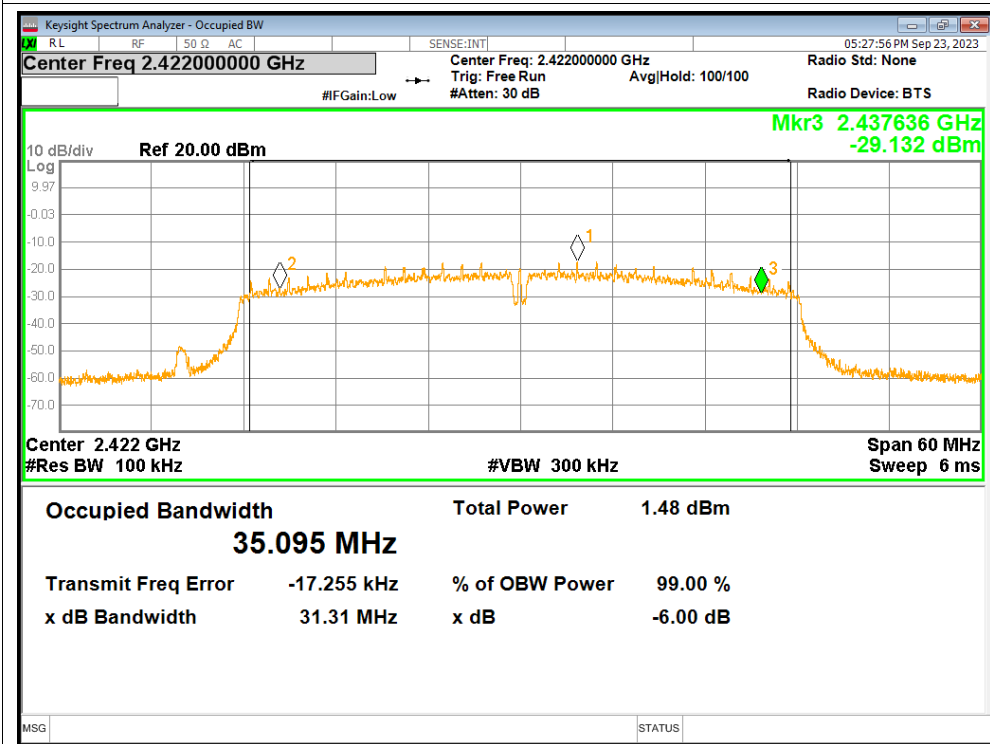
-6dB Bandwidth NVNT n40 2437MHz Ant1



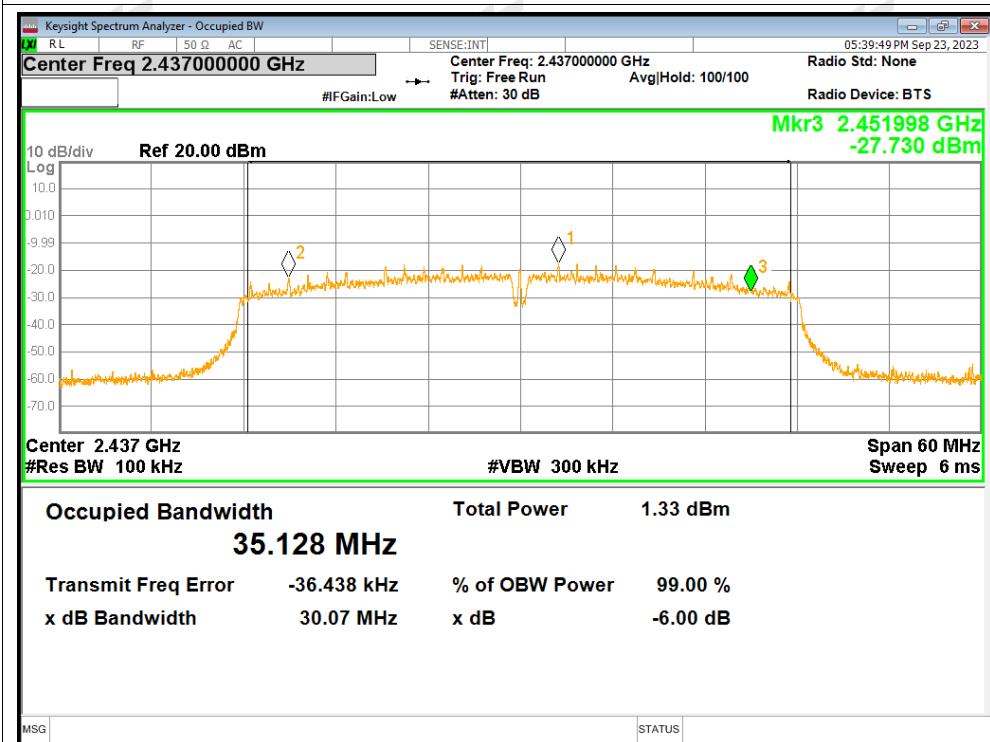
-6dB Bandwidth NVNT n40 2452MHz Ant1



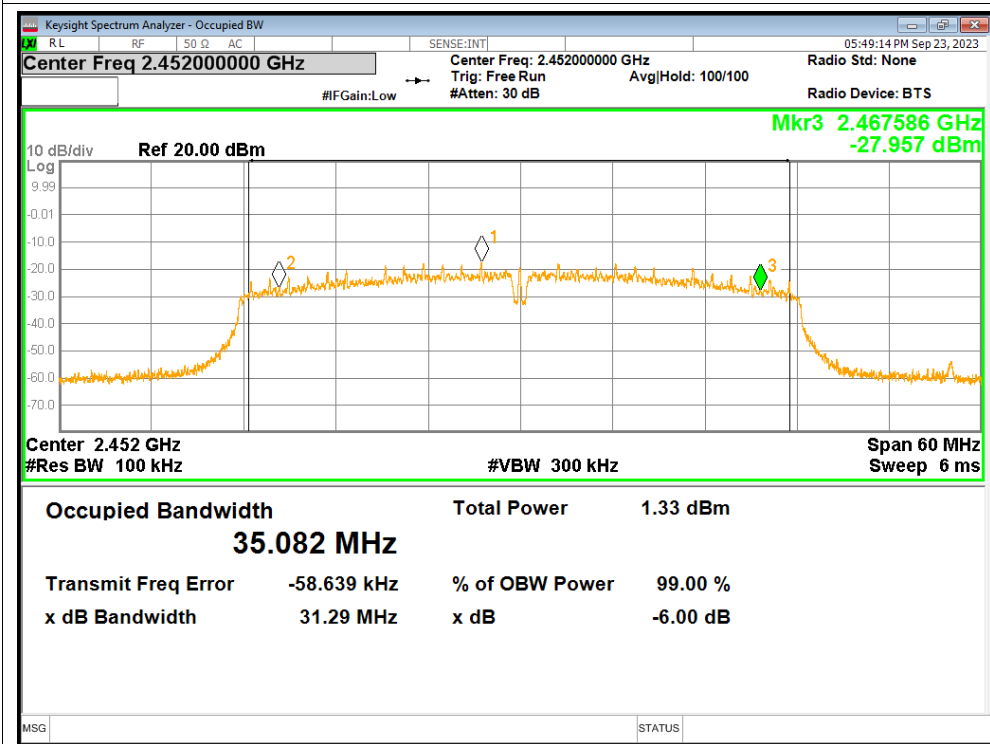
-6dB Bandwidth NVNT n40 2422MHz Ant2



-6dB Bandwidth NVNT n40 2437MHz Ant2

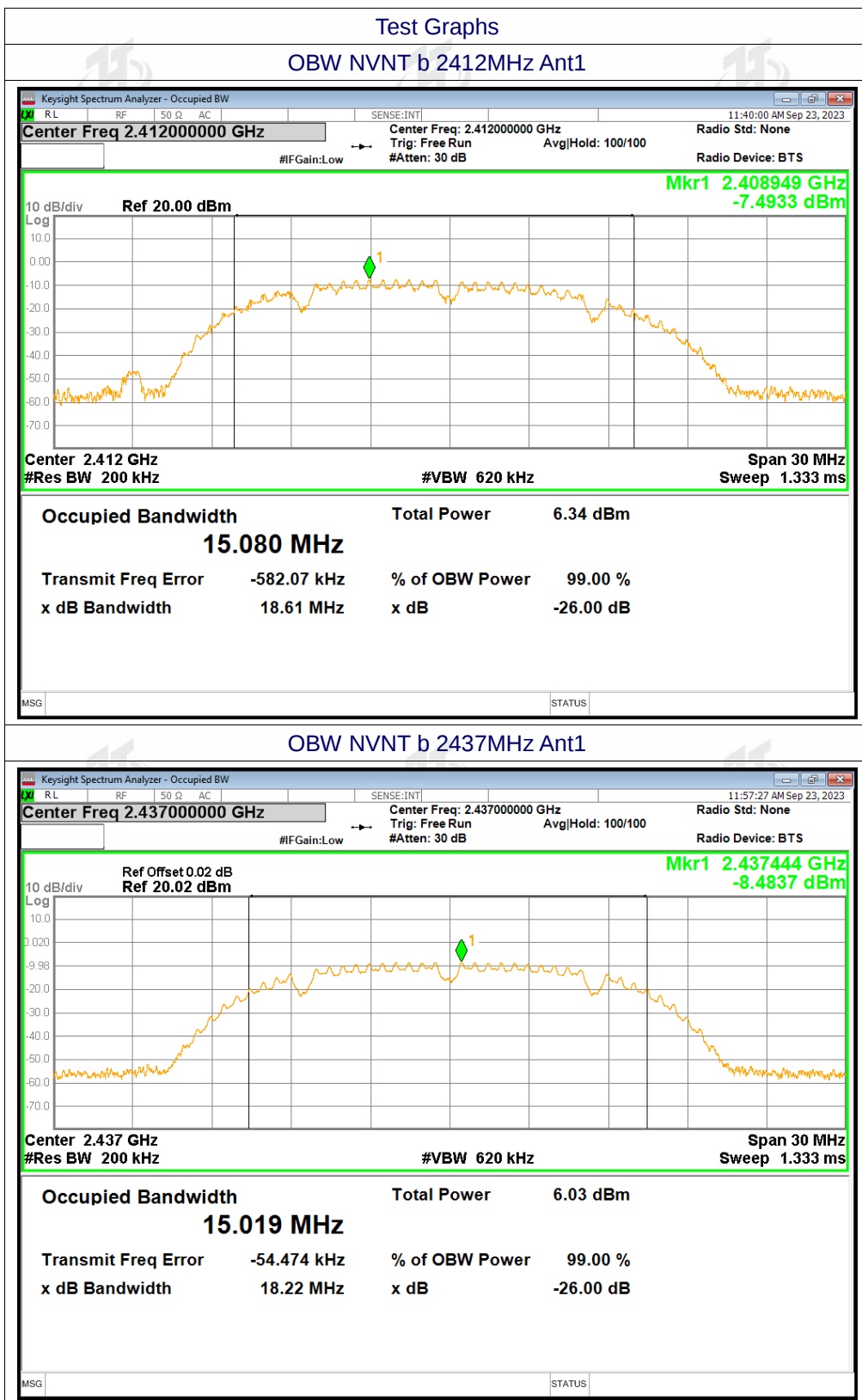


-6dB Bandwidth NVNT n40 2452MHz Ant2

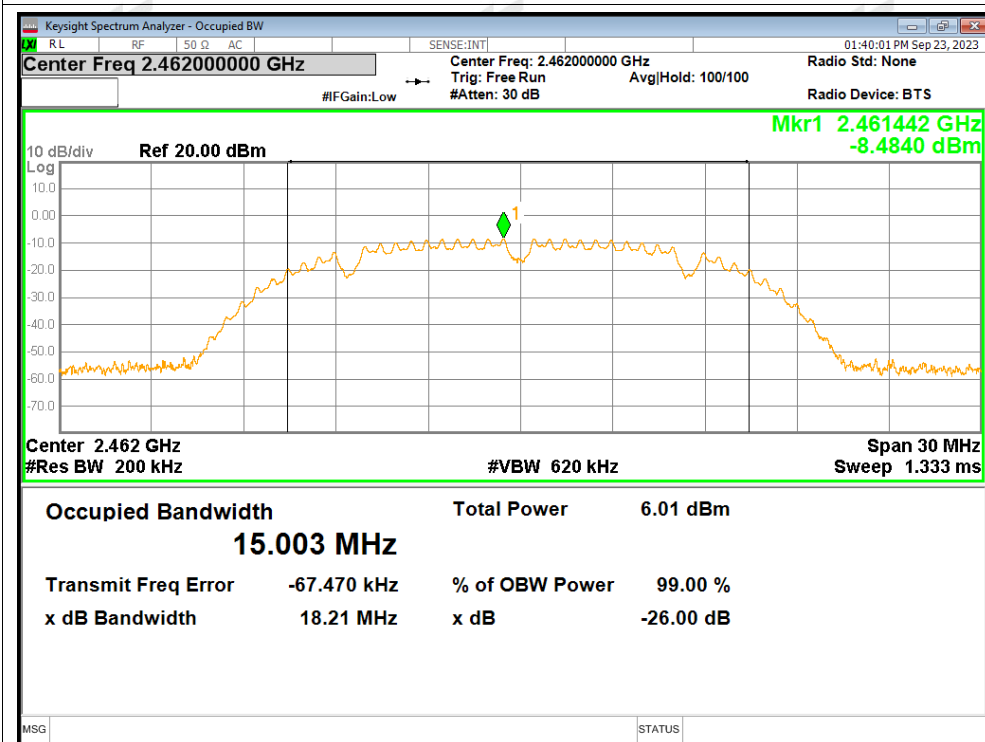


A5 Occupied Channel Bandwidth

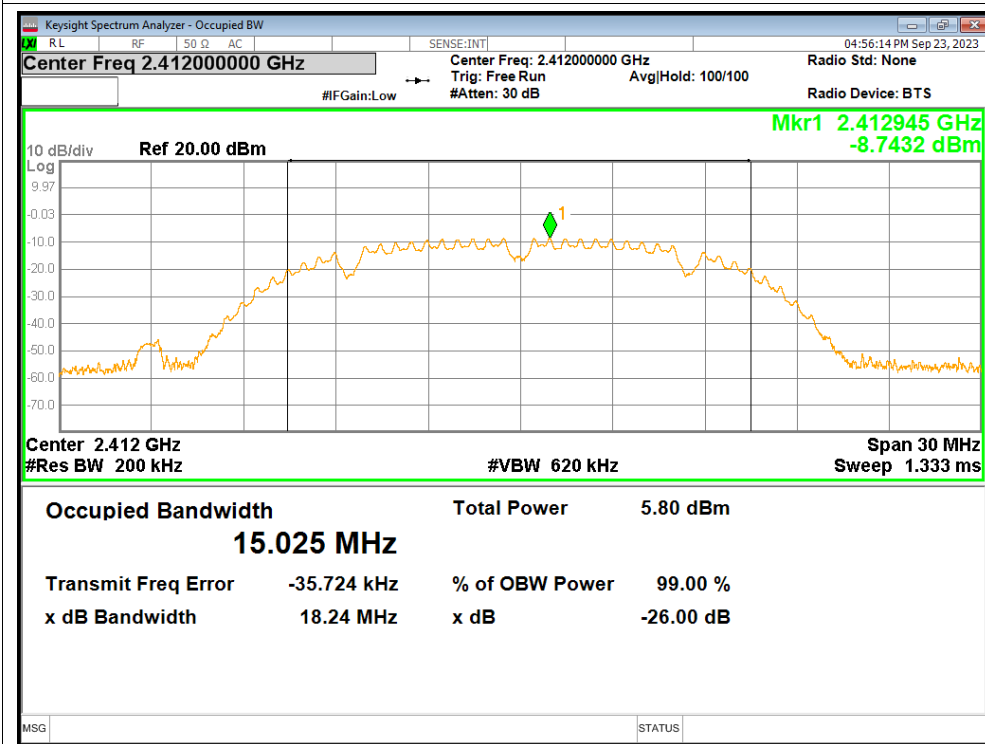
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	15.08
NVNT	b	2437	Ant1	15.019
NVNT	b	2462	Ant1	15.003
NVNT	b	2412	Ant2	15.025
NVNT	b	2437	Ant2	15.016
NVNT	b	2462	Ant2	14.997
NVNT	g	2412	Ant1	16.977
NVNT	g	2437	Ant1	16.834
NVNT	g	2462	Ant1	17.097
NVNT	g	2412	Ant2	18.163
NVNT	g	2437	Ant2	17.816
NVNT	g	2462	Ant2	17.952
NVNT	n20	2412	Ant1	17.642
NVNT	n20	2437	Ant1	18.066
NVNT	n20	2462	Ant1	17.79
NVNT	n20	2412	Ant2	17.855
NVNT	n20	2437	Ant2	17.9
NVNT	n20	2462	Ant2	18.14
NVNT	n40	2422	Ant1	35.201
NVNT	n40	2437	Ant1	35.283
NVNT	n40	2452	Ant1	35.204
NVNT	n40	2422	Ant2	35.225
NVNT	n40	2437	Ant2	35.272
NVNT	n40	2452	Ant2	35.194



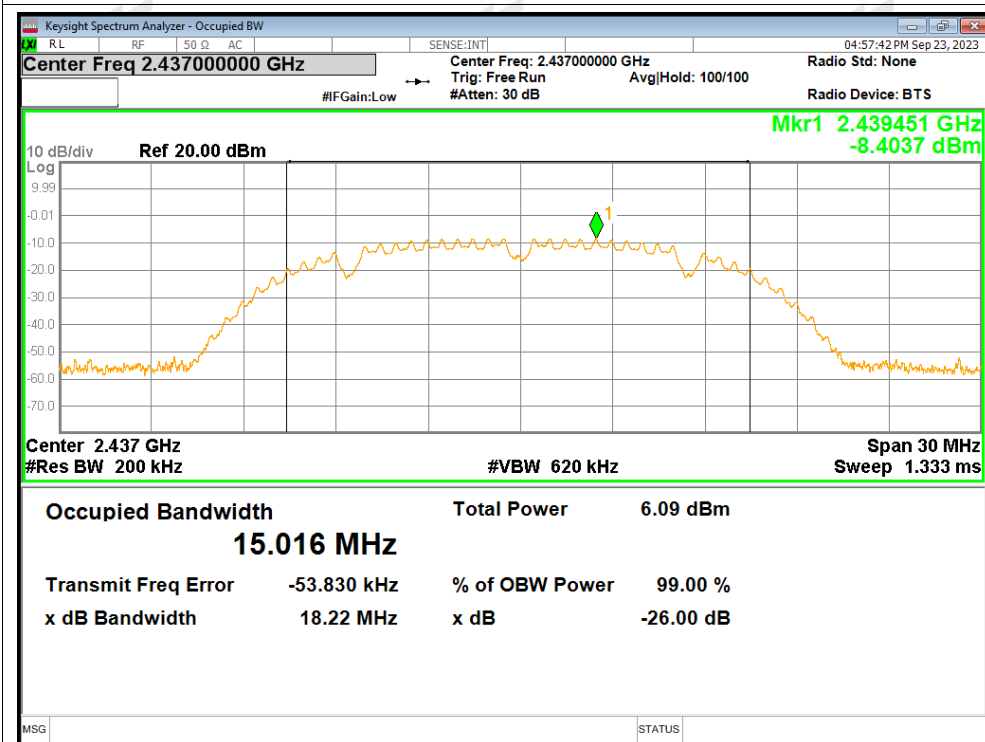
OBW NVNT b 2462MHz Ant1



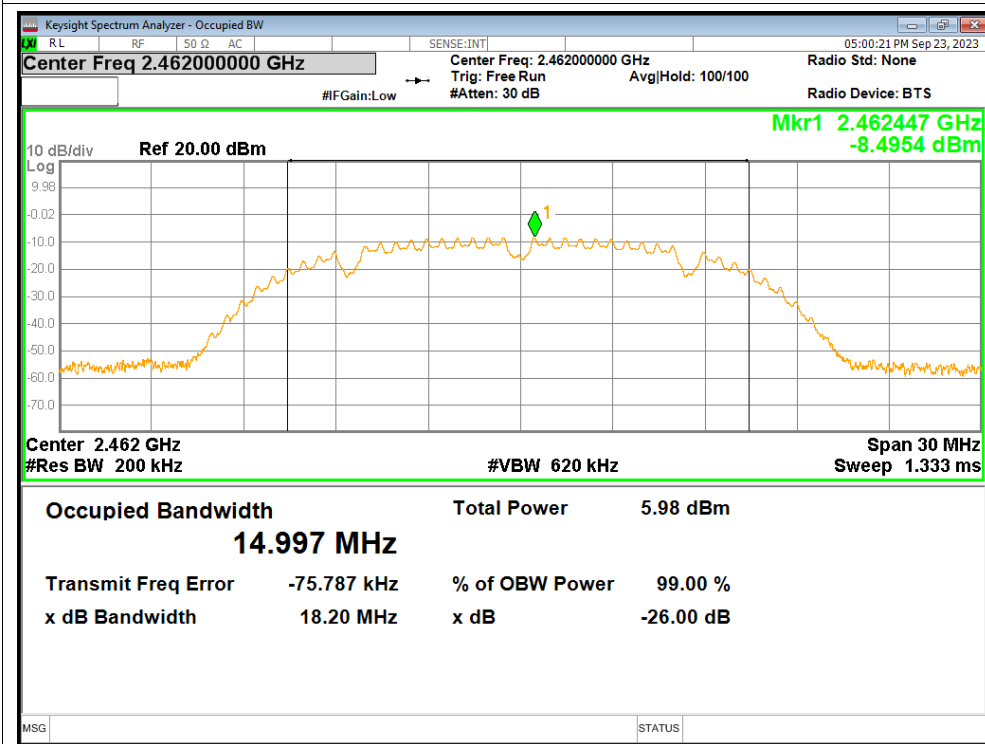
OBW NVNT b 2412MHz Ant2



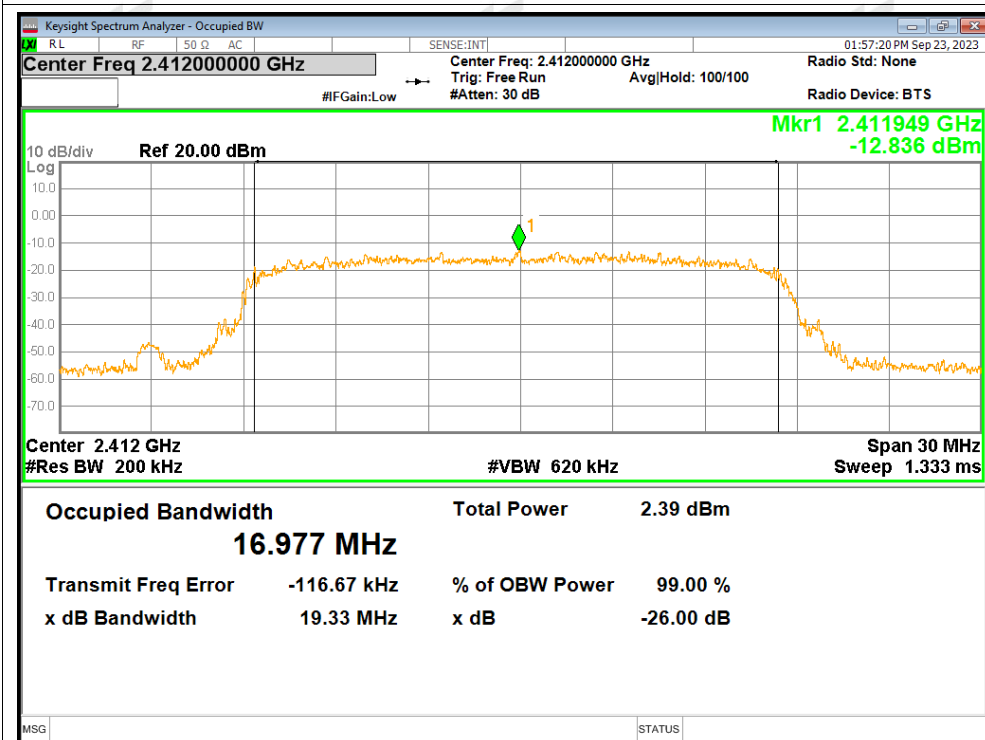
OBW NVNT b 2437MHz Ant2



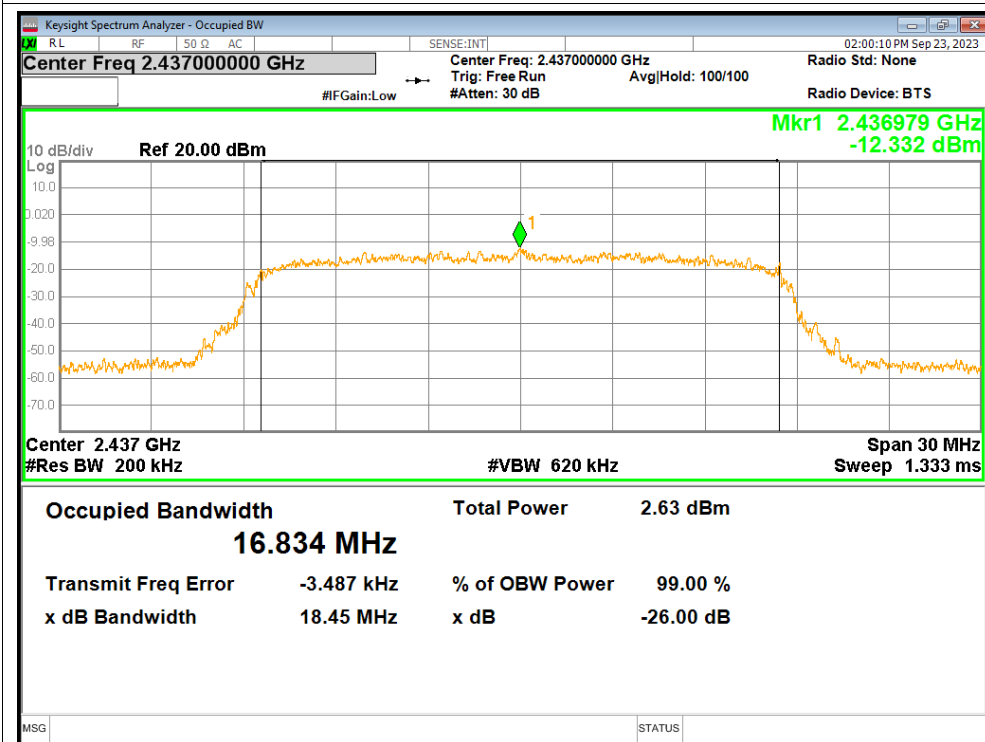
OBW NVNT b 2462MHz Ant2



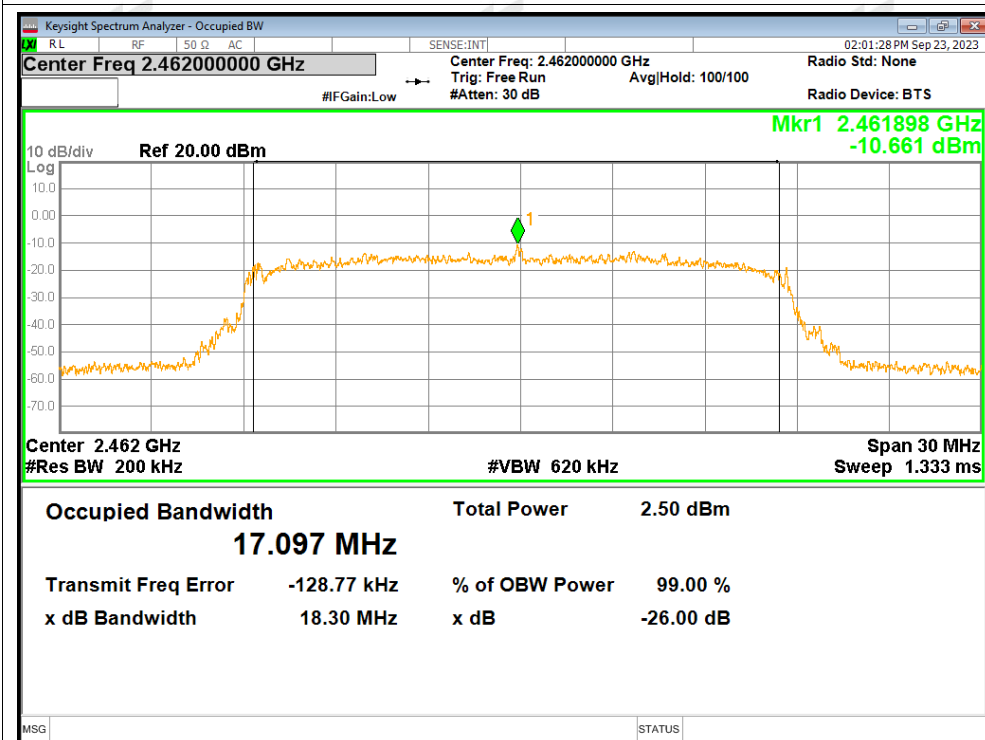
OBW NVNT g 2412MHz Ant1



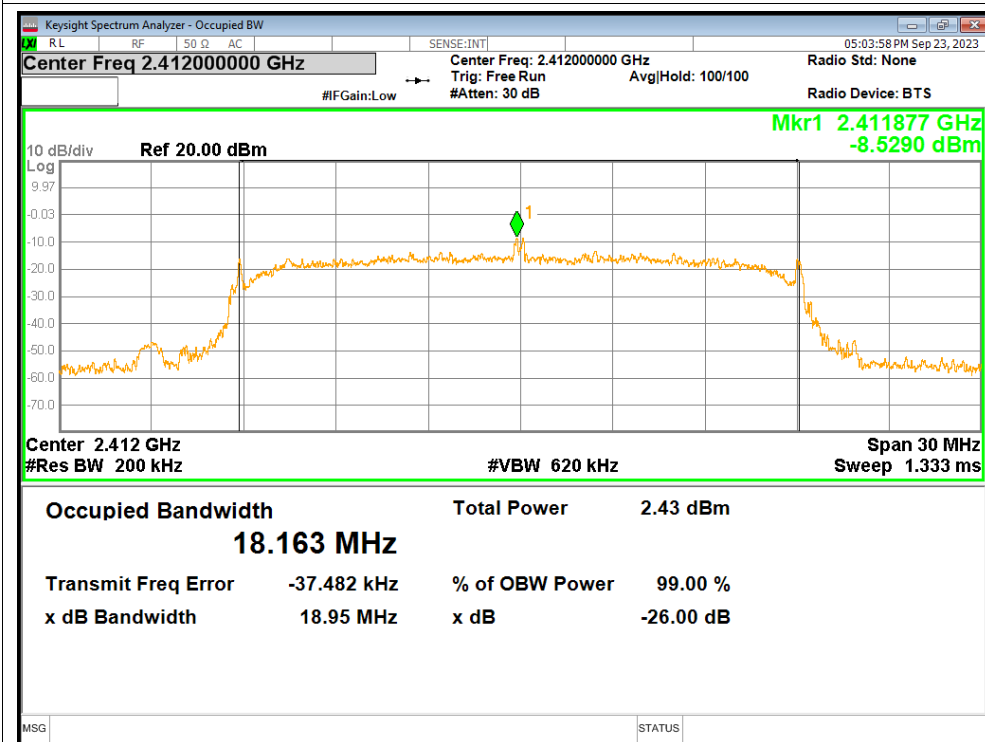
OBW NVNT g 2437MHz Ant1



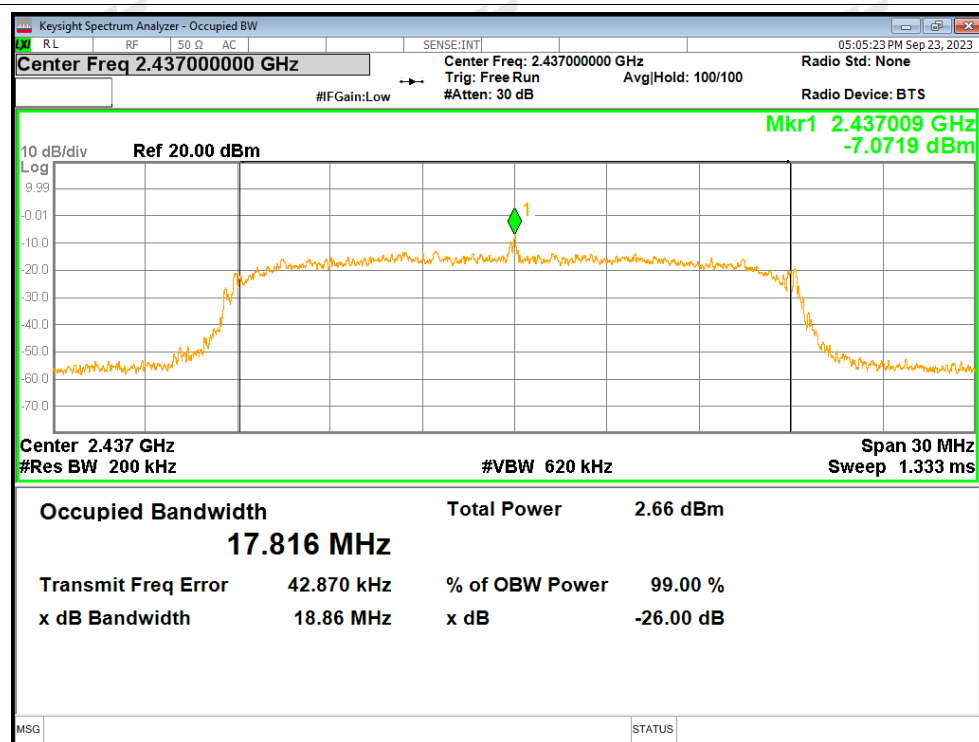
OBW NVNT g 2462MHz Ant1



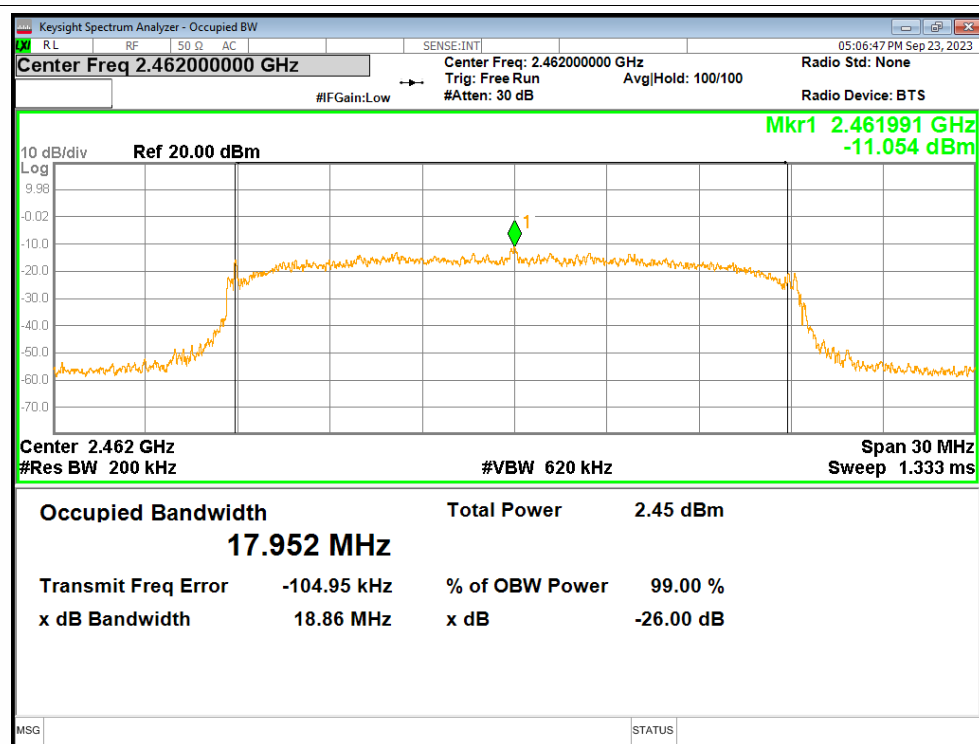
OBW NVNT g 2412MHz Ant2



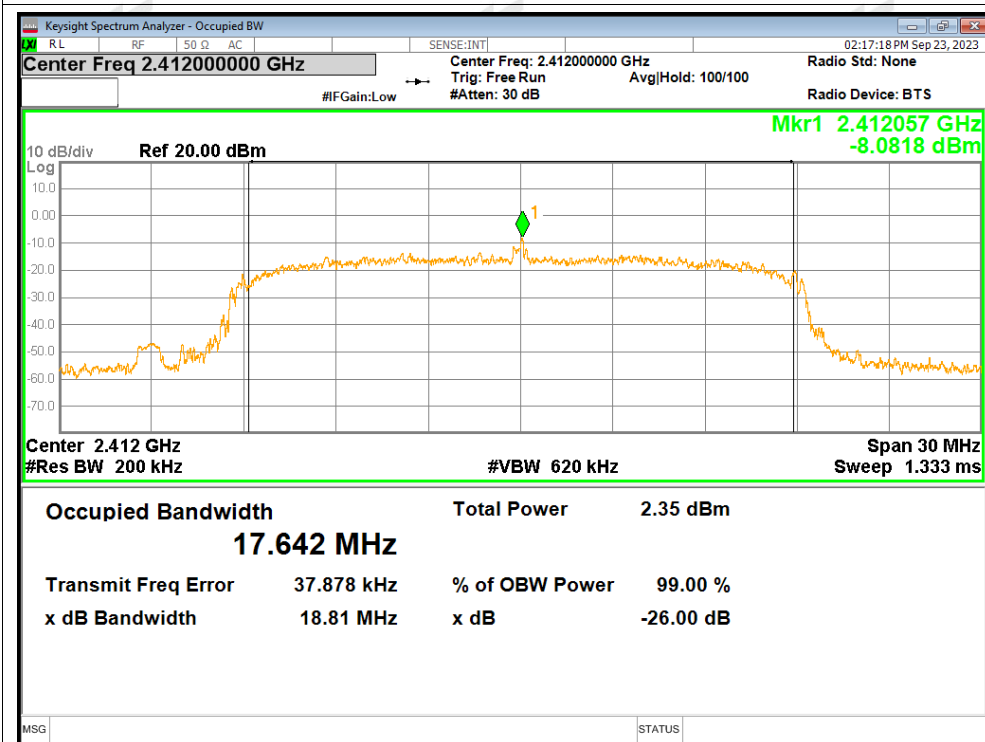
OBW NVNT g 2437MHz Ant2



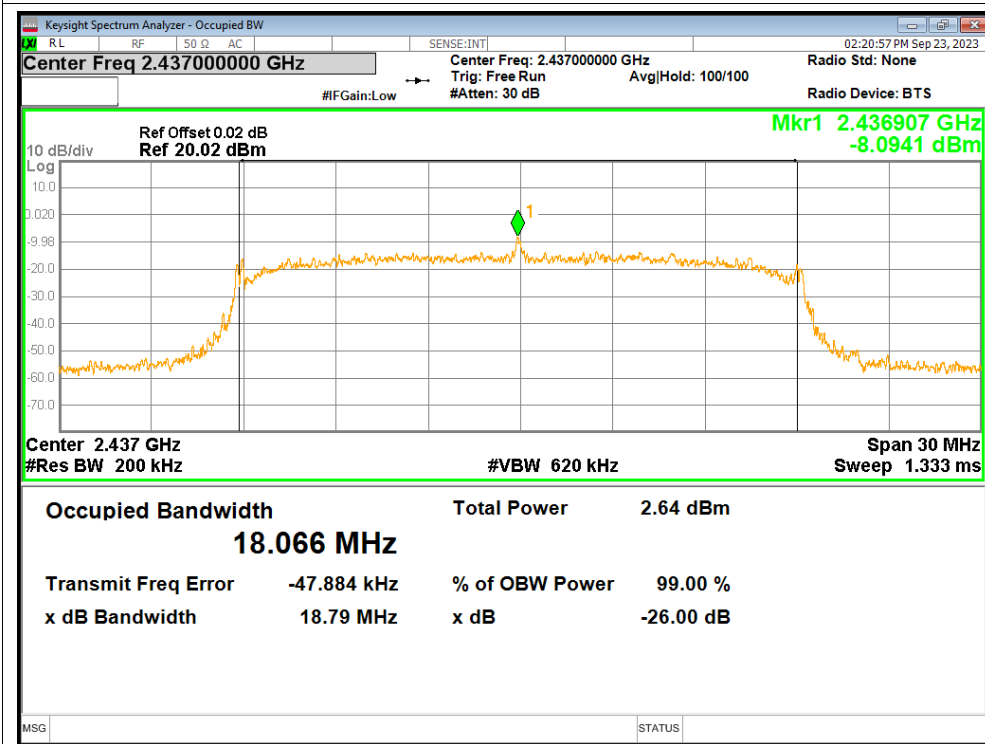
OBW NVNT g 2462MHz Ant2



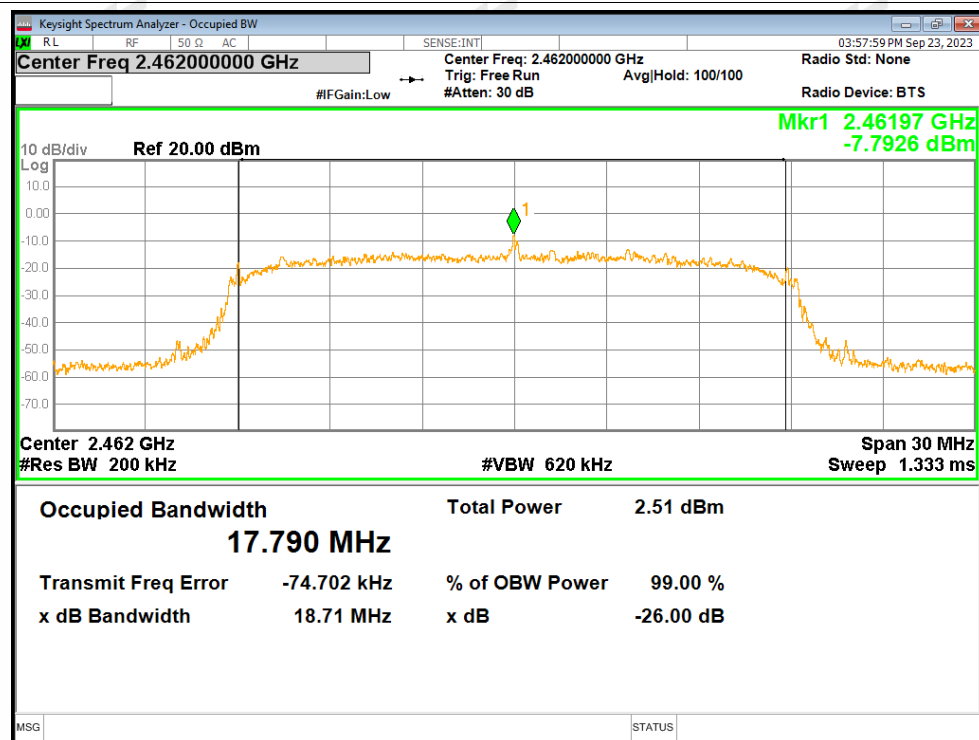
OBW NVNT n20 2412MHz Ant1



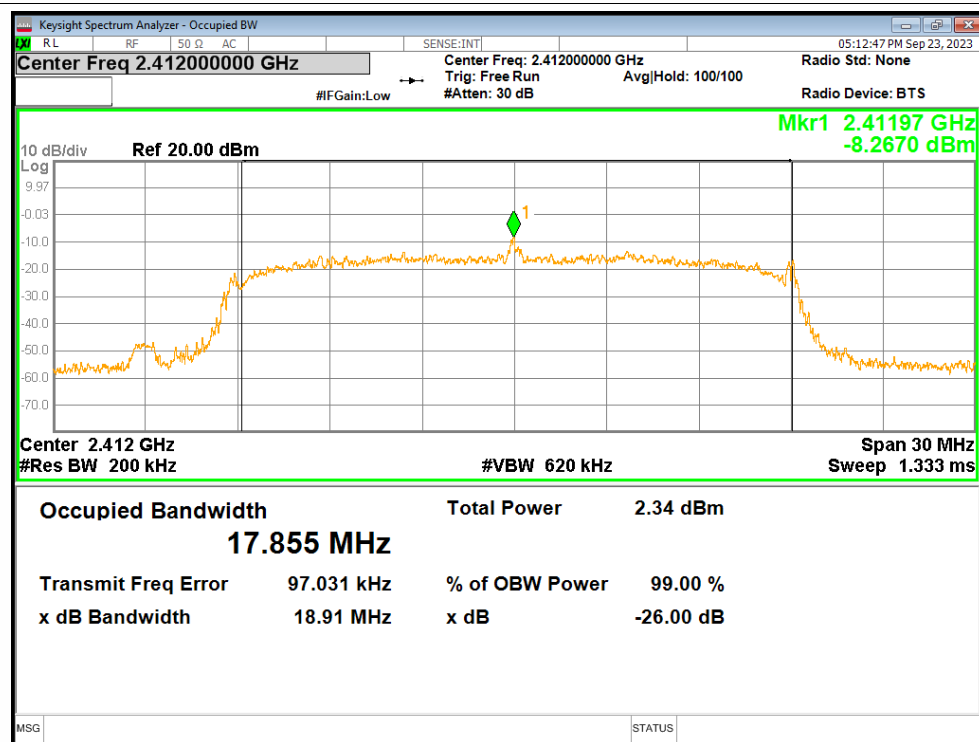
OBW NVNT n20 2437MHz Ant1



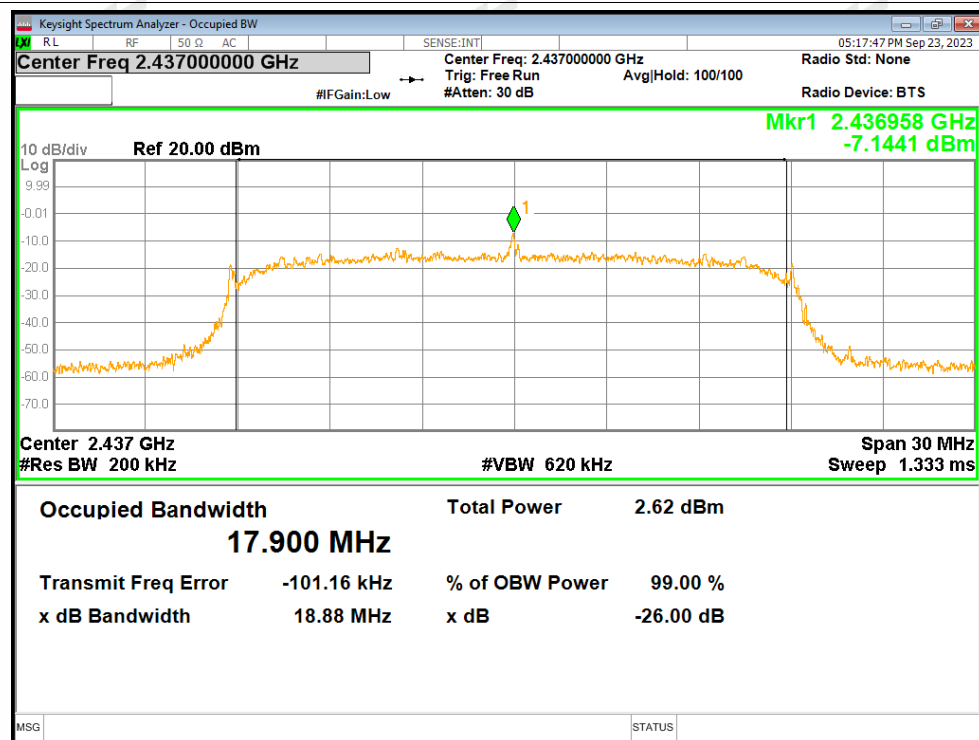
OBW NVNT n20 2462MHz Ant1



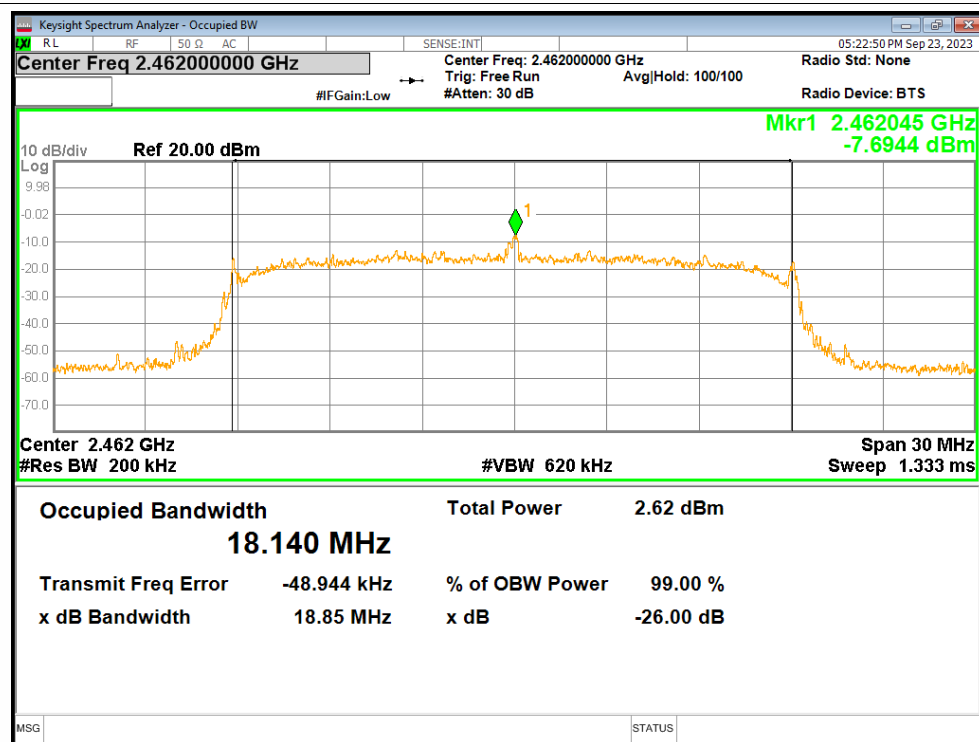
OBW NVNT n20 2412MHz Ant2



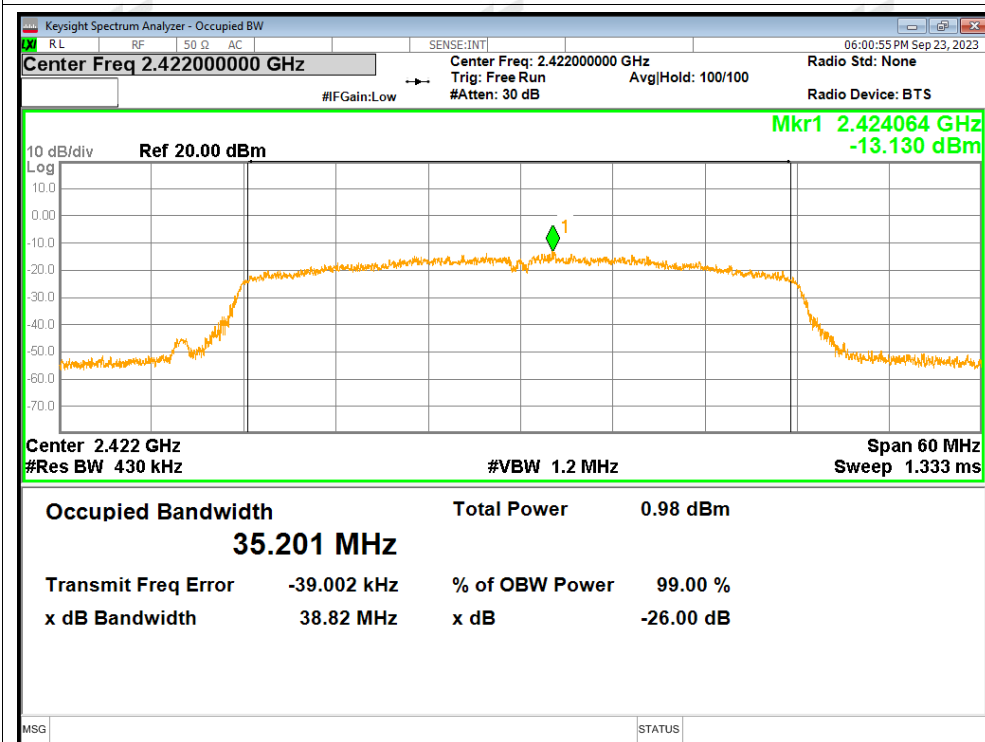
OBW NVNT n20 2437MHz Ant2



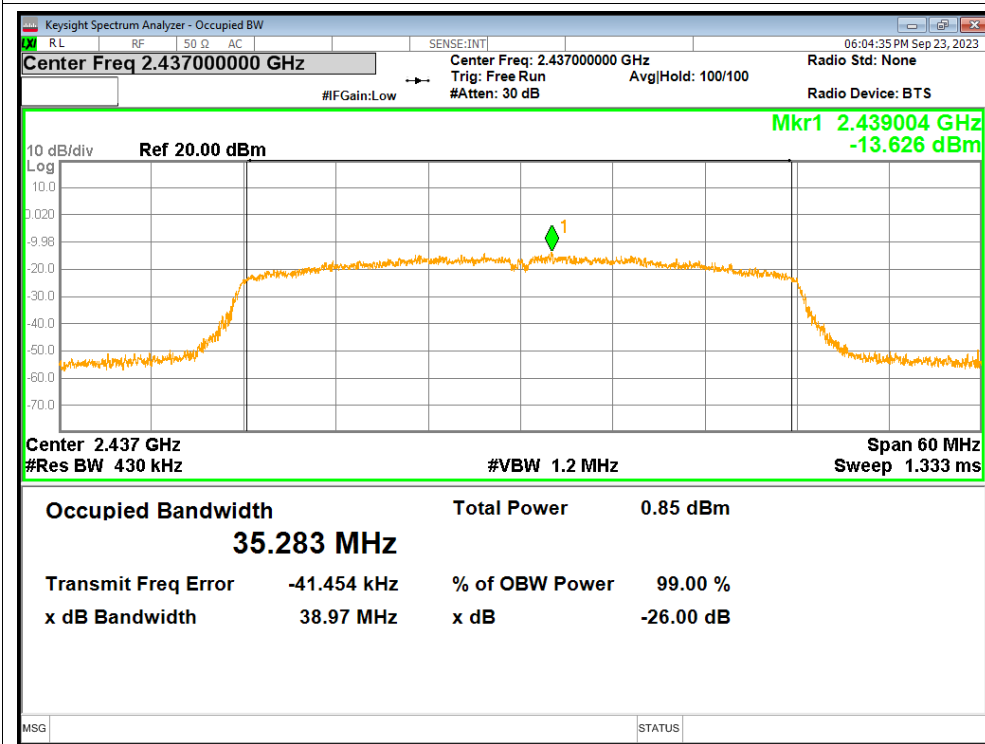
OBW NVNT n20 2462MHz Ant2



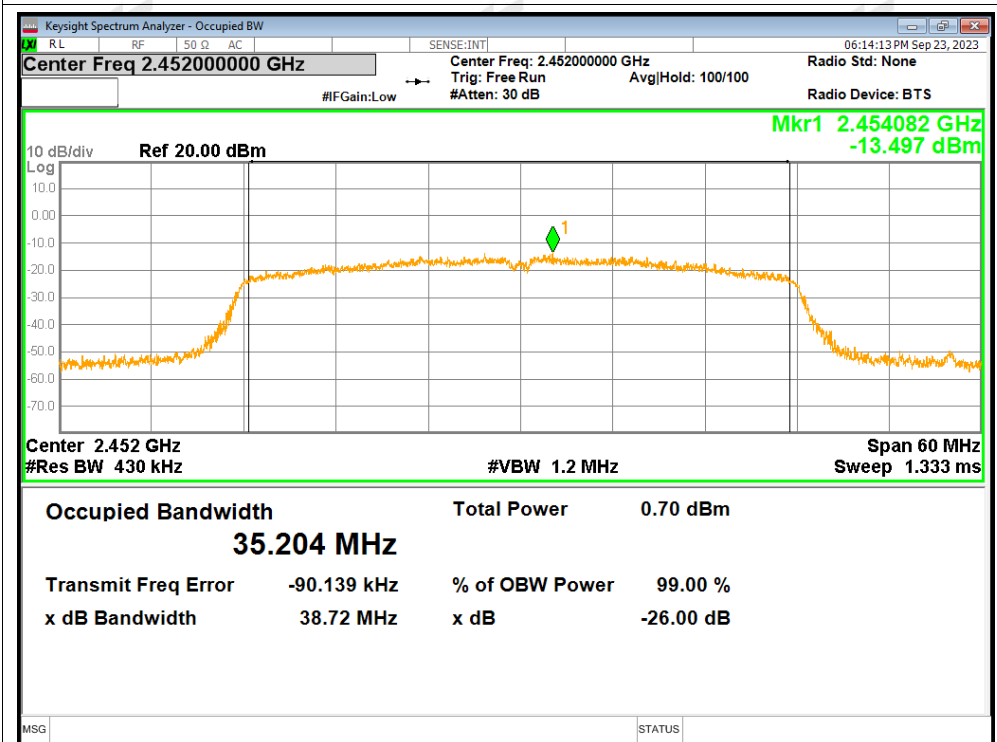
OBW NVNT n40 2422MHz Ant1



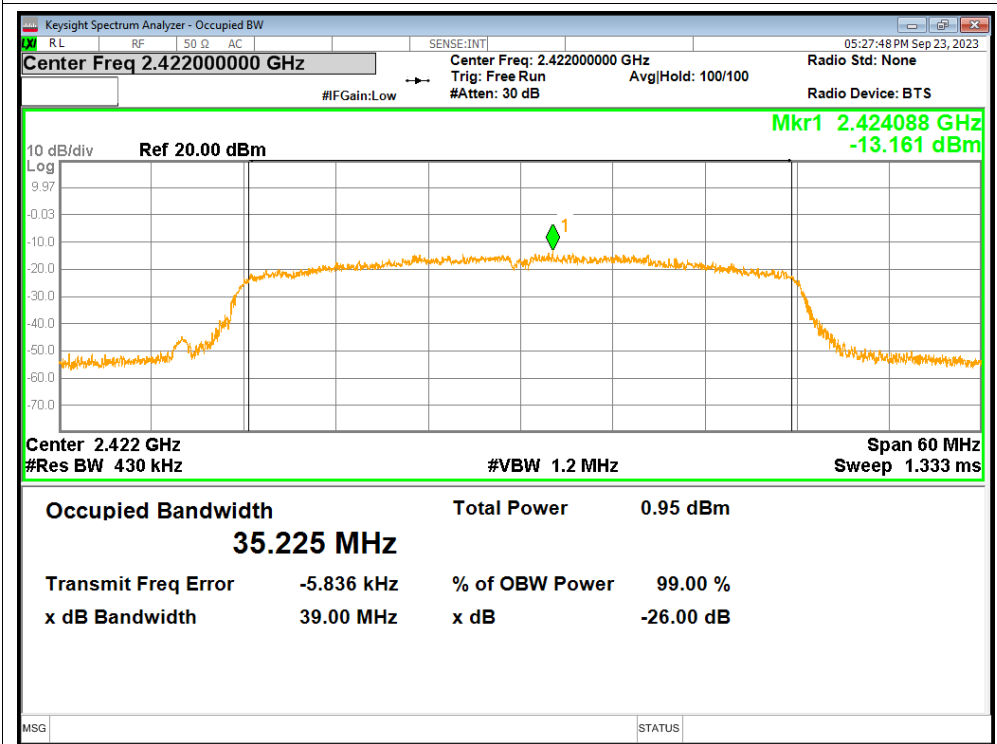
OBW NVNT n40 2437MHz Ant1



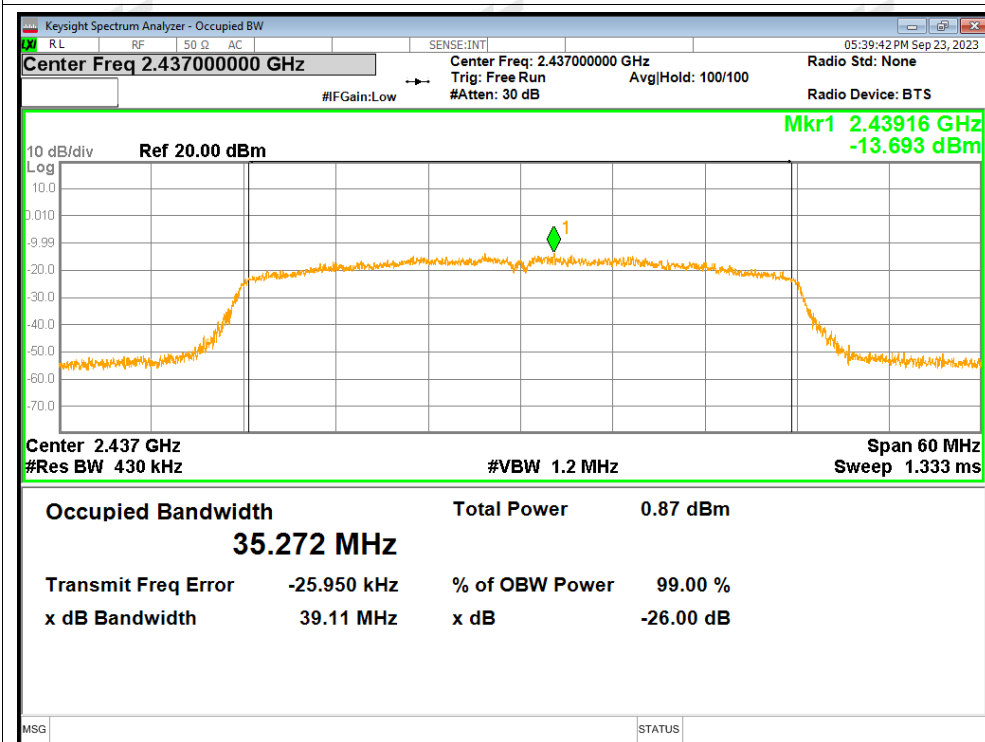
OBW NVNT n40 2452MHz Ant1



OBW NVNT n40 2422MHz Ant2



OBW NVNT n40 2437MHz Ant2



OBW NVNT n40 2452MHz Ant2

