



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Audio video wireless extender

Trade Mark: Wiistar

Test Model: Y1W_200M

Environmental Conditions

Temperature:	24.4° C
Relative Humidity:	52.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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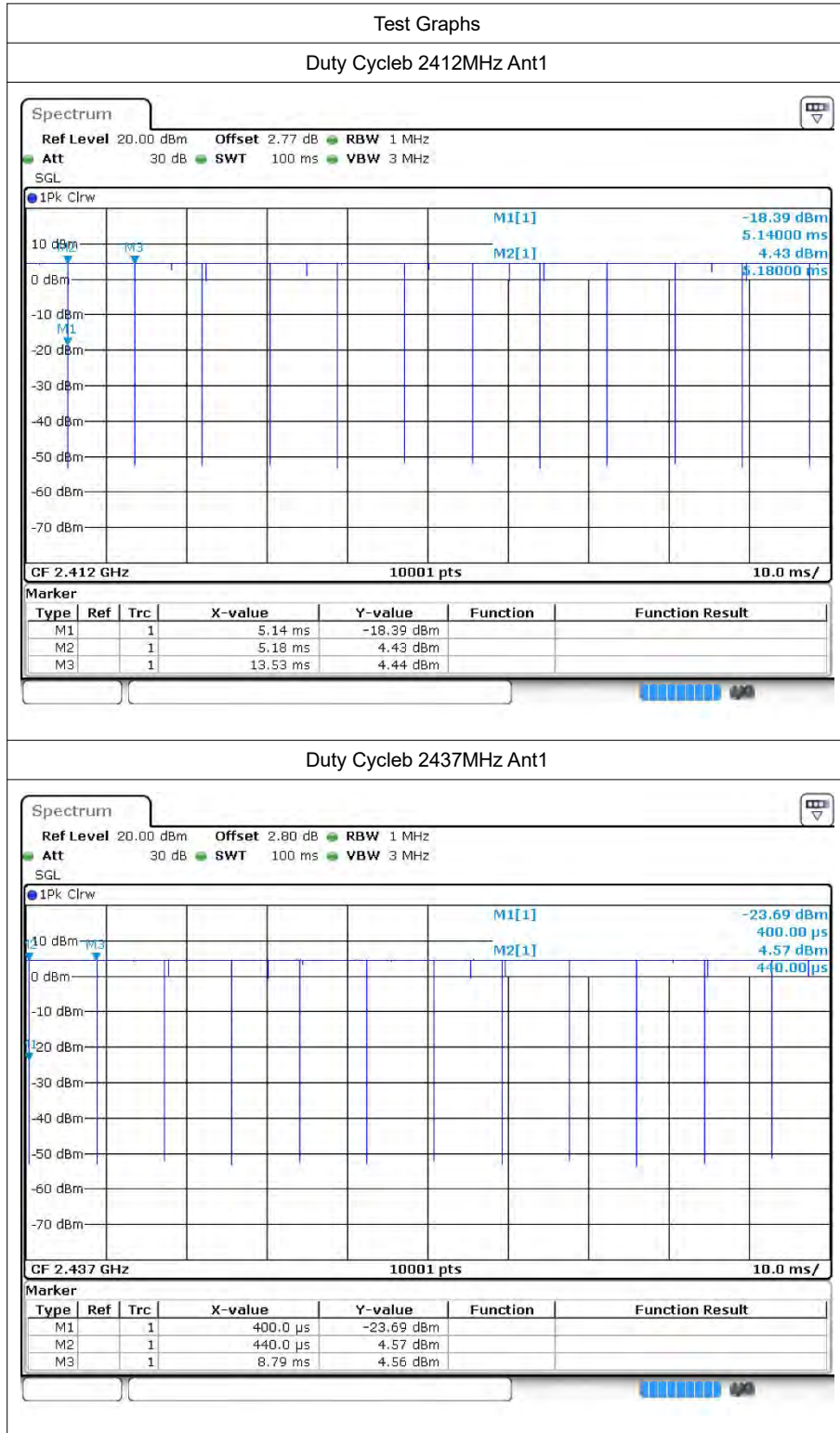


1 Duty Cycle

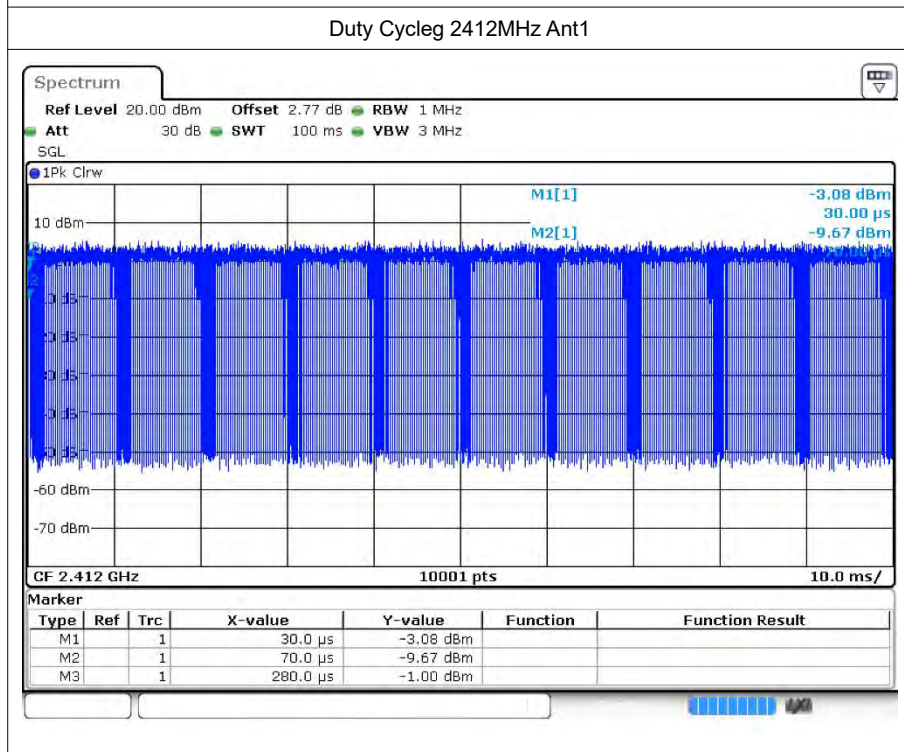
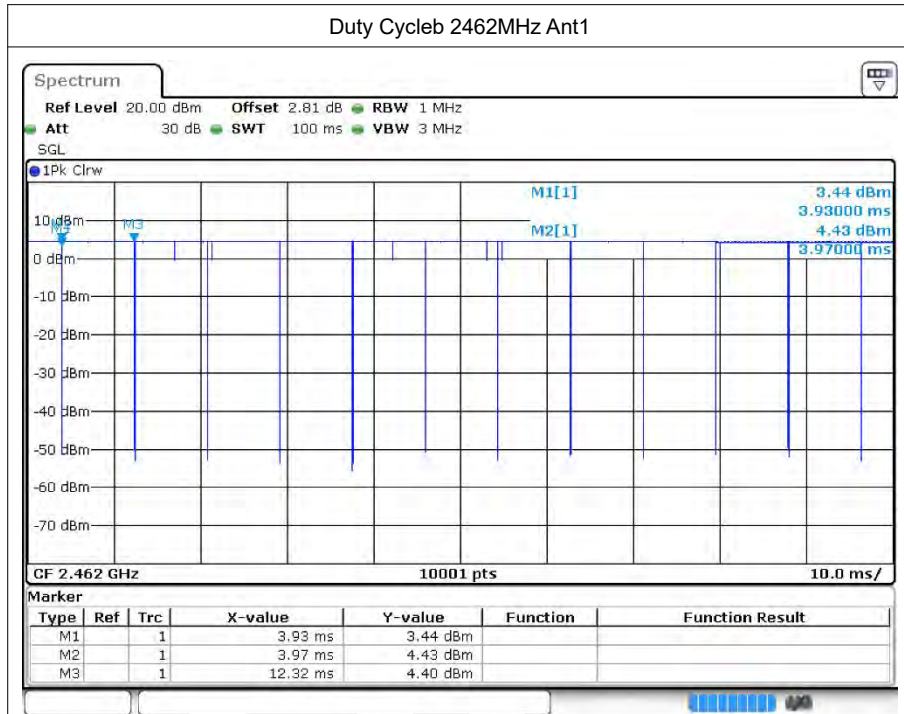
1.1 Test Result

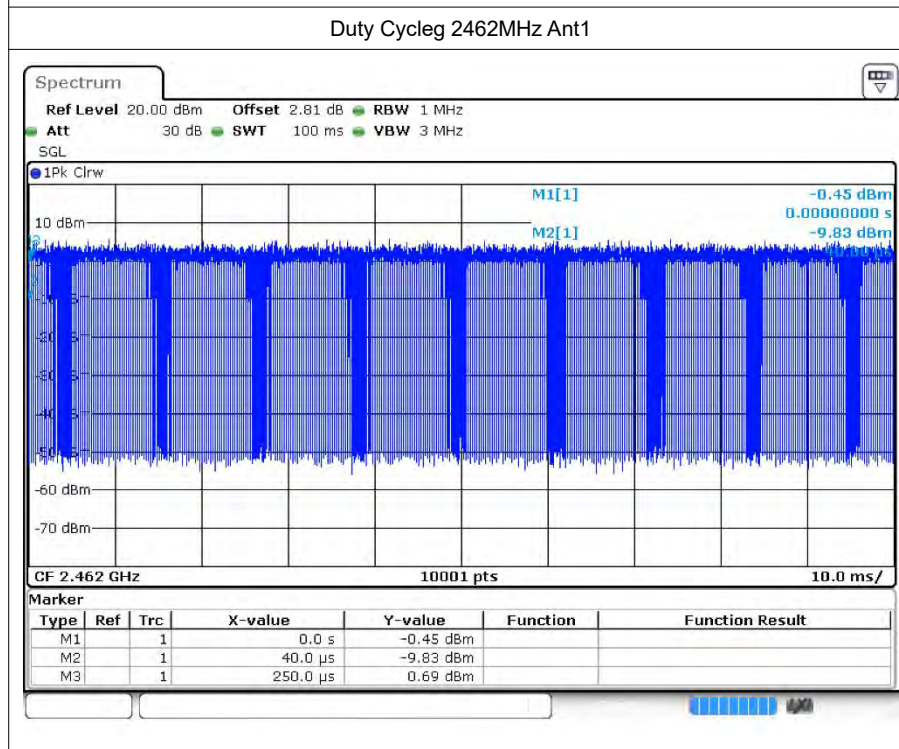
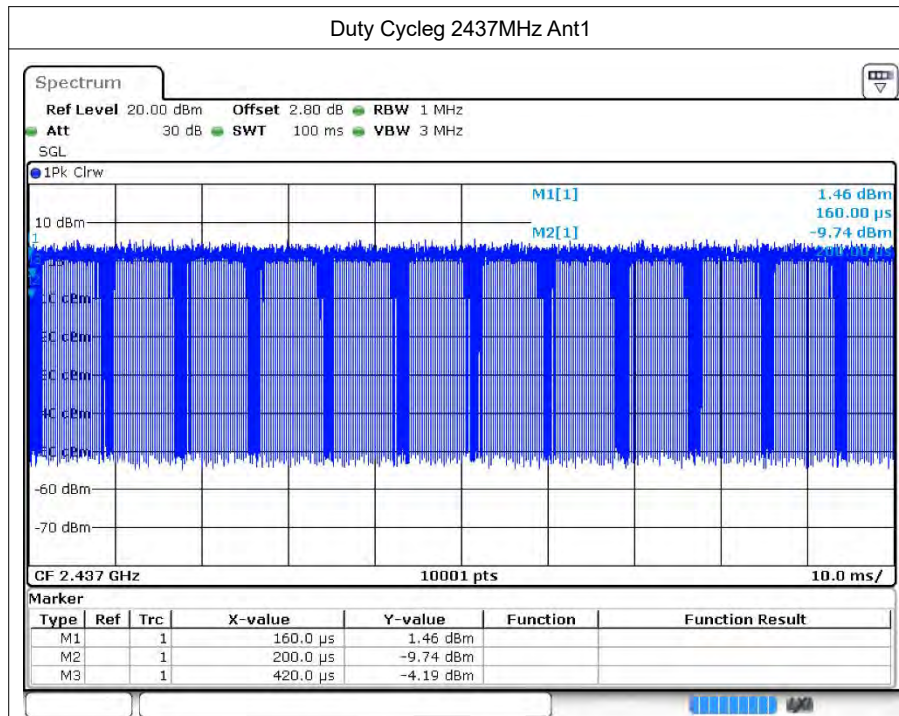
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	99.61	0.01
b	2437	Ant1	99.61	0.01
b	2462	Ant1	99.59	0.01
g	2412	Ant1	99.61	0.01
g	2437	Ant1	99.61	0.01
g	2462	Ant1	99.59	0.01
n20	2412	Ant1	93.01	2.22
n20	2437	Ant1	92.96	2.22
n20	2462	Ant1	92.84	2.22
n40	2422	Ant1	92.94	2.27
n40	2437	Ant1	92.91	2.22
n40	2452	Ant1	92.9	2.27
b	2412	Ant2	99.59	0.12
b	2437	Ant2	99.59	0.12
b	2462	Ant2	99.59	0.12
g	2412	Ant2	99.59	0.12
g	2437	Ant2	99.59	0.12
g	2462	Ant2	99.59	0.12
n20	2412	Ant2	92.98	2.22
n20	2437	Ant2	93.01	2.22
n20	2462	Ant2	93	2.22
n40	2422	Ant2	92.91	2.22
n40	2437	Ant2	92.92	2.27
n40	2452	Ant2	92.92	2.27

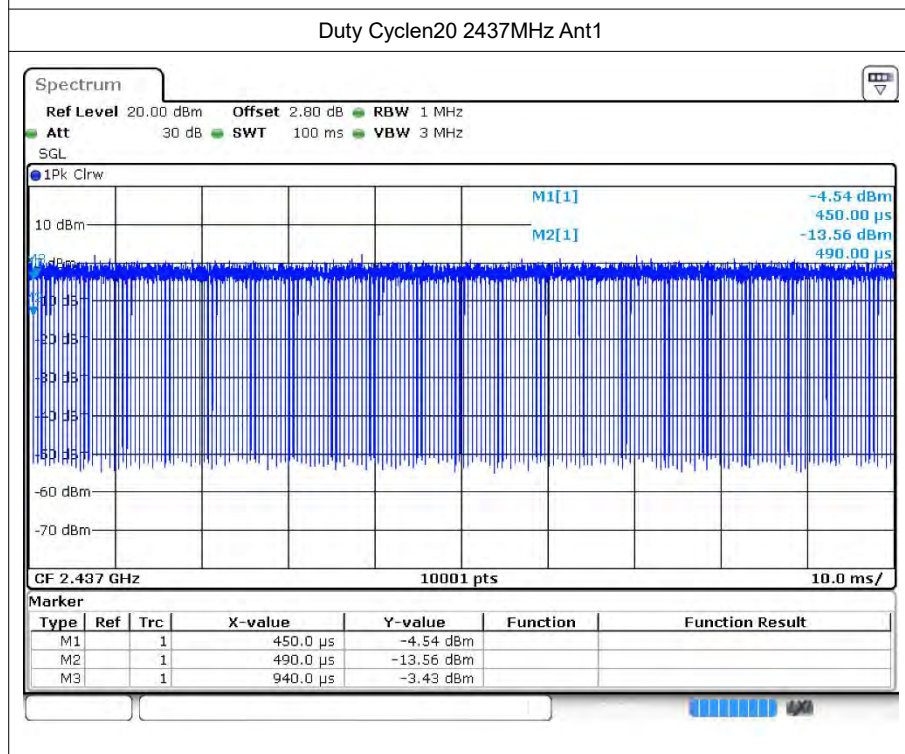
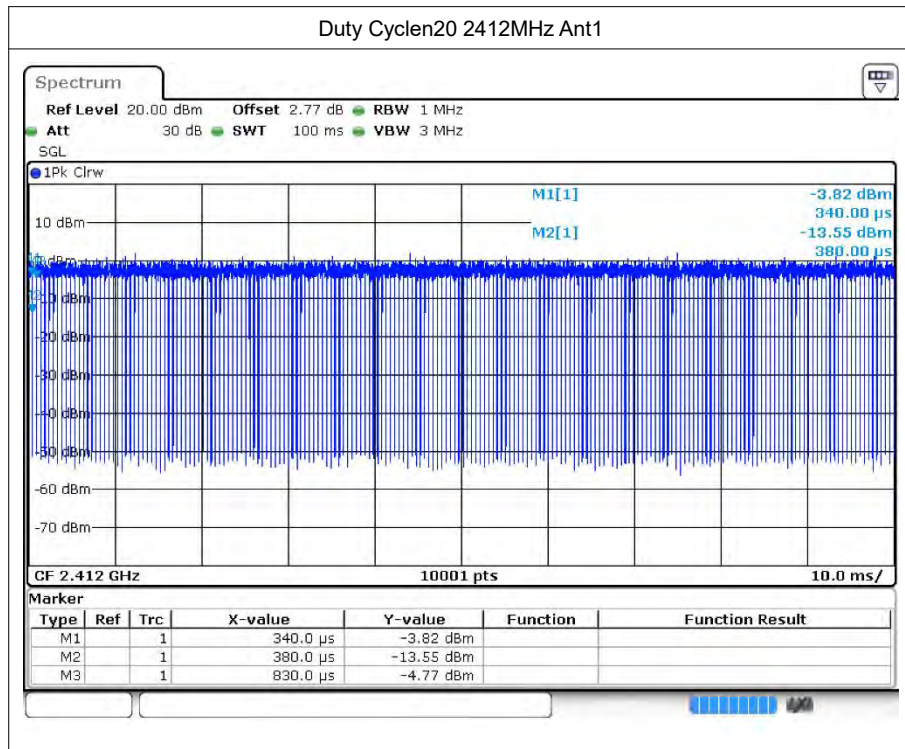
1.2 Test Graphs

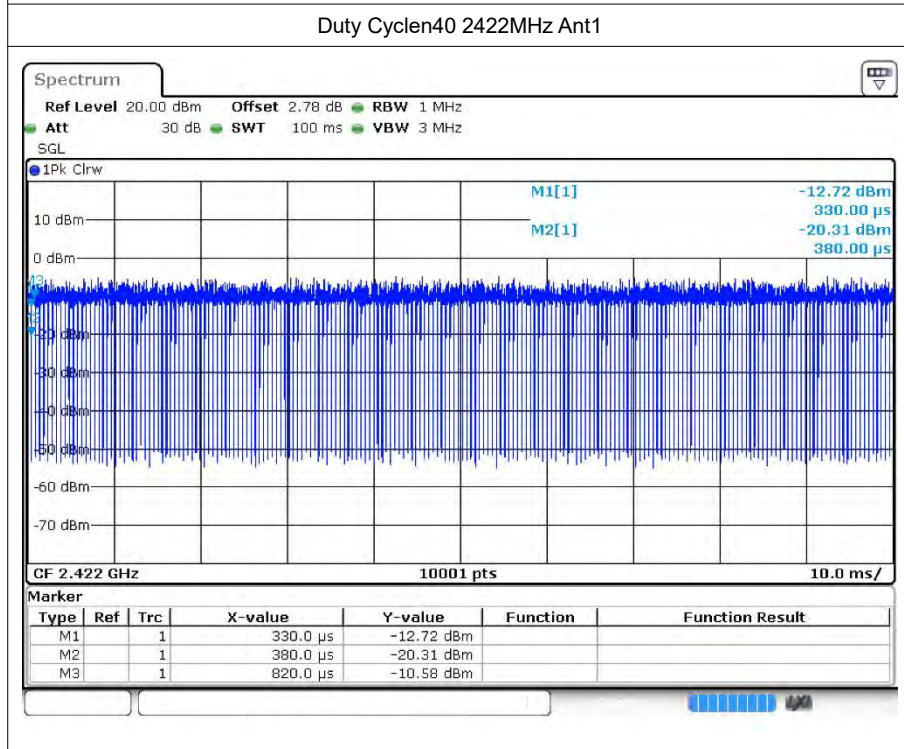
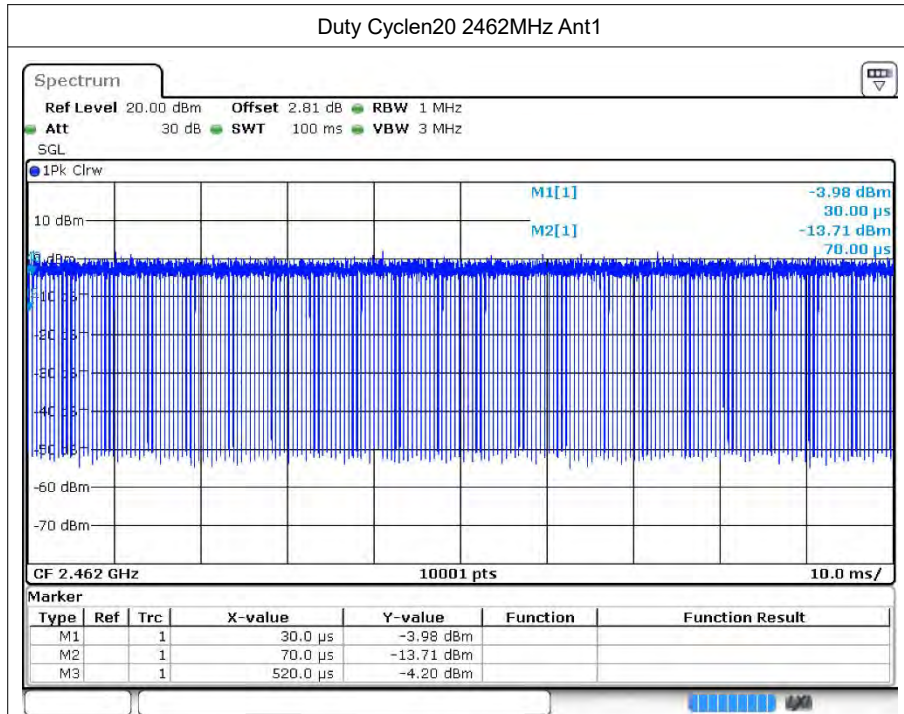


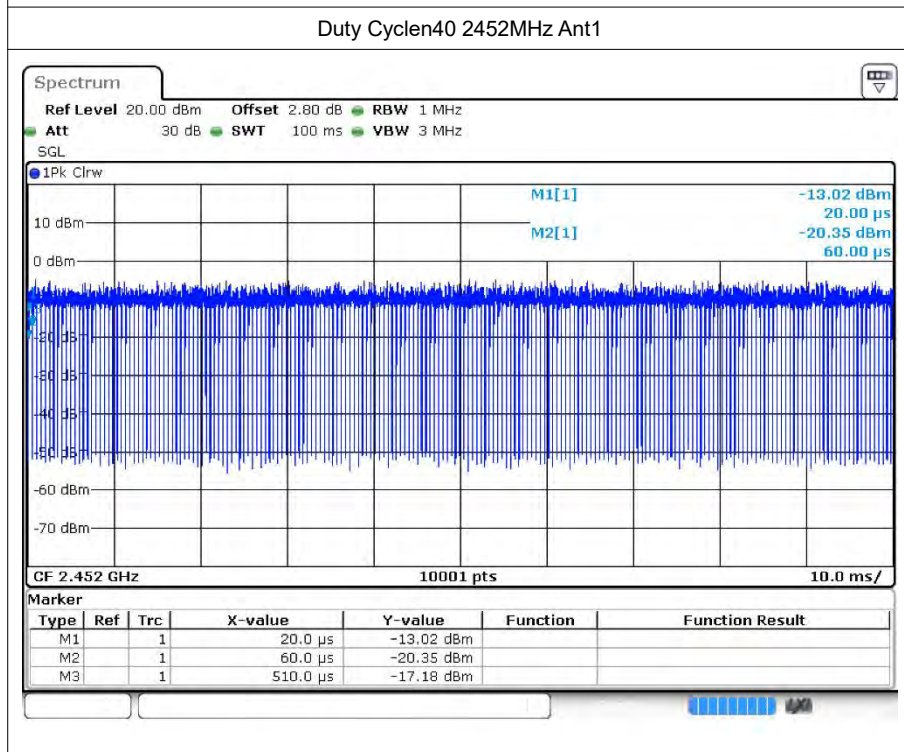
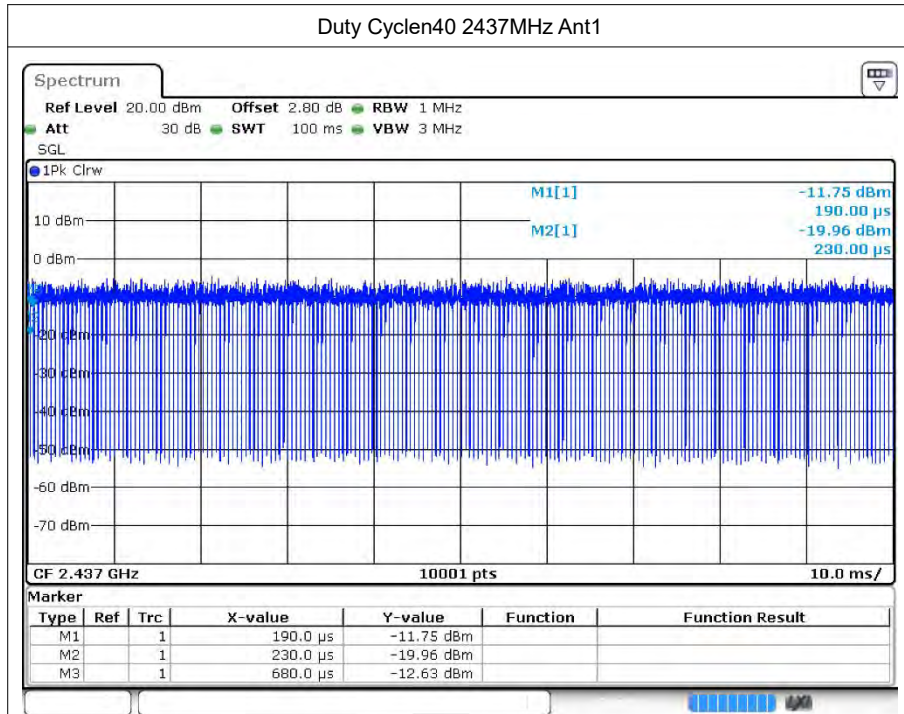
Duty Cycleb 2437MHz Ant1

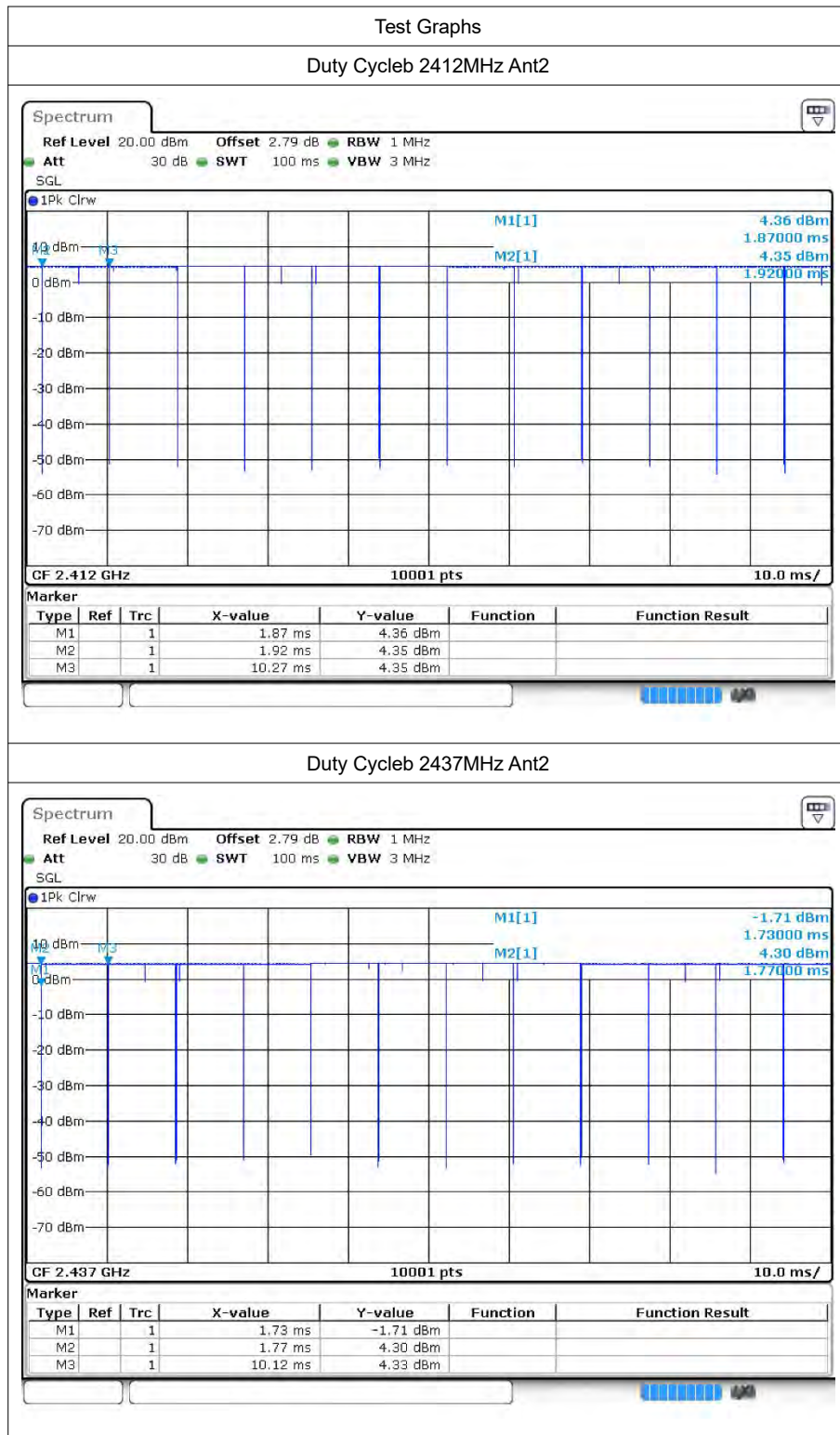


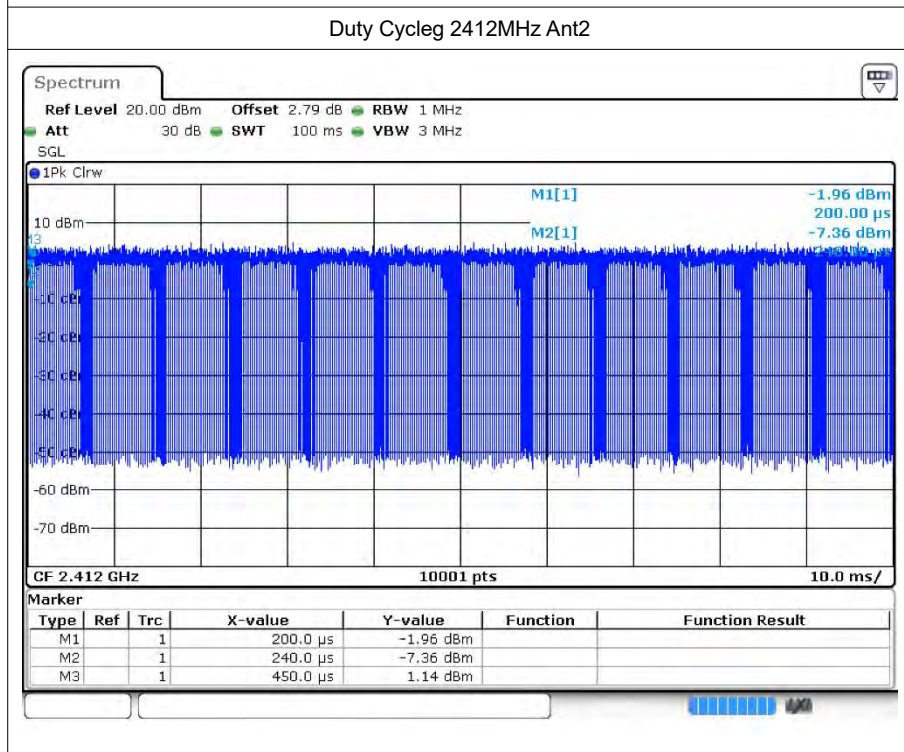
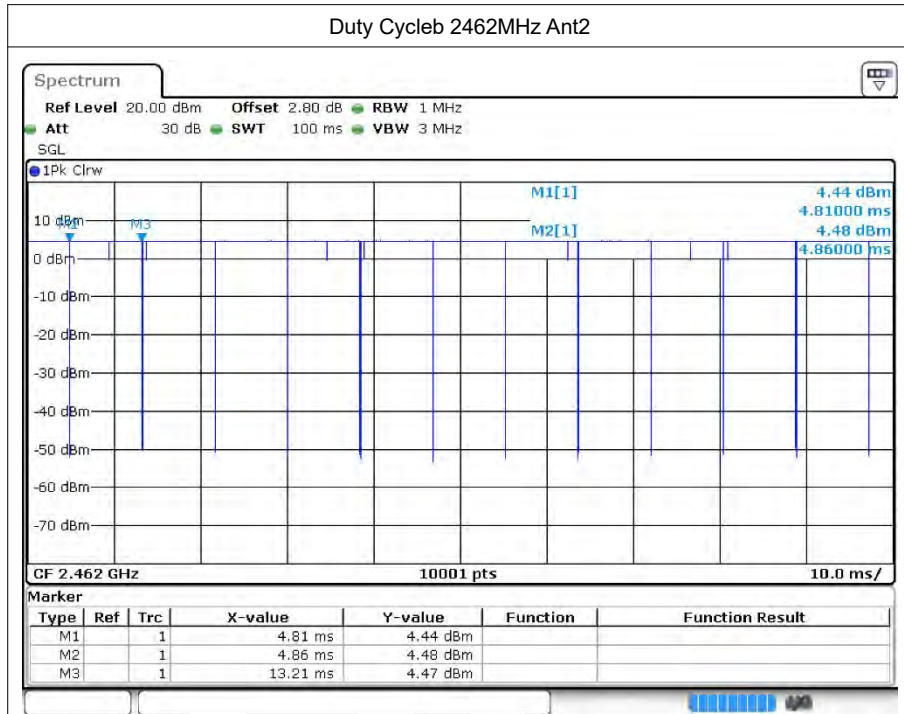


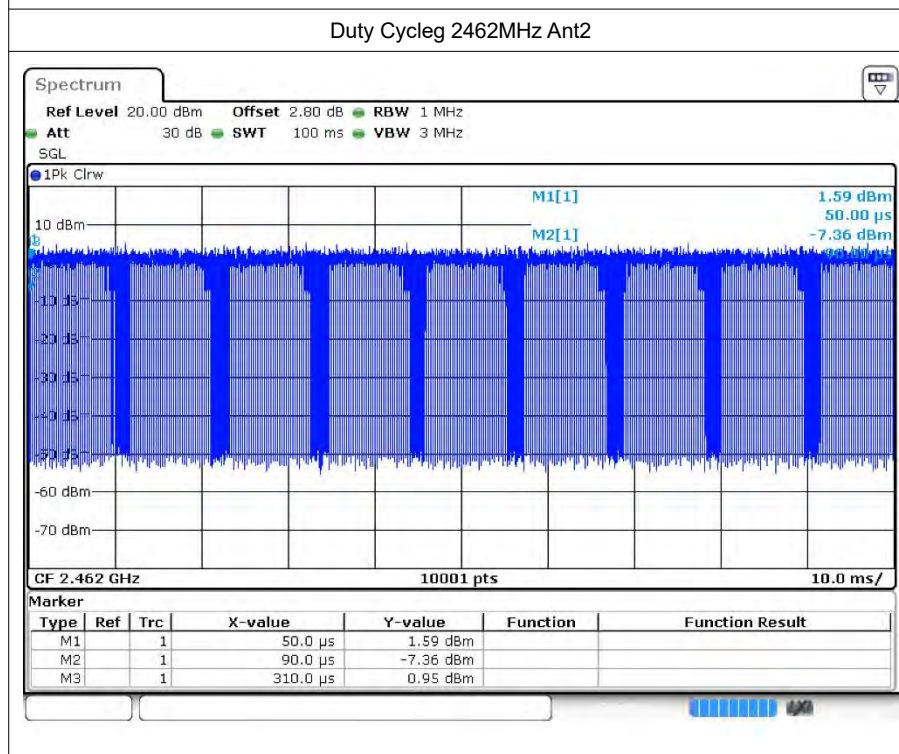
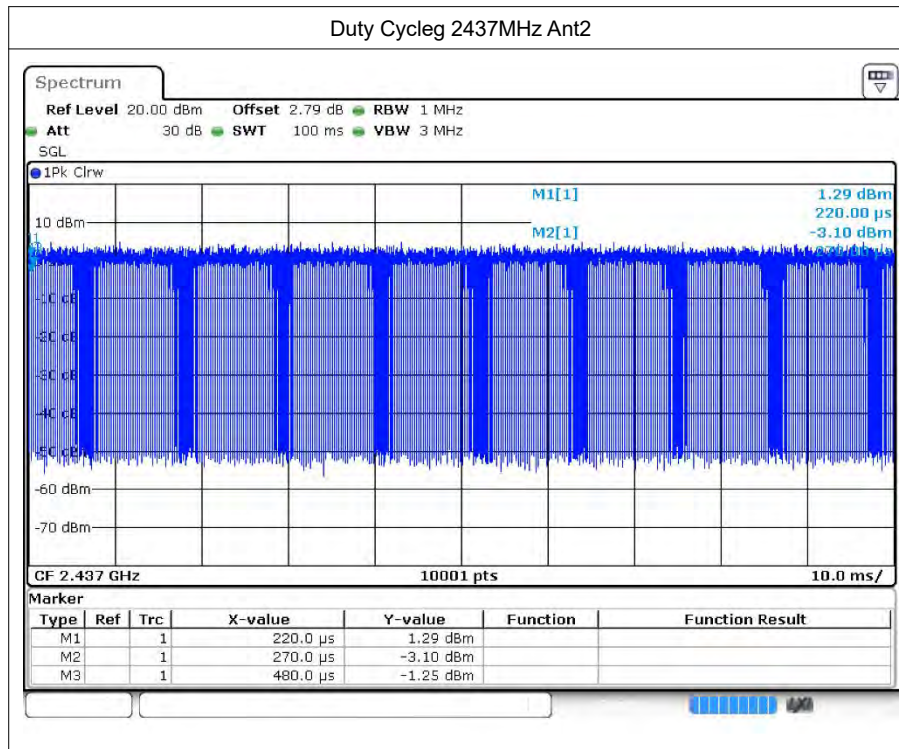


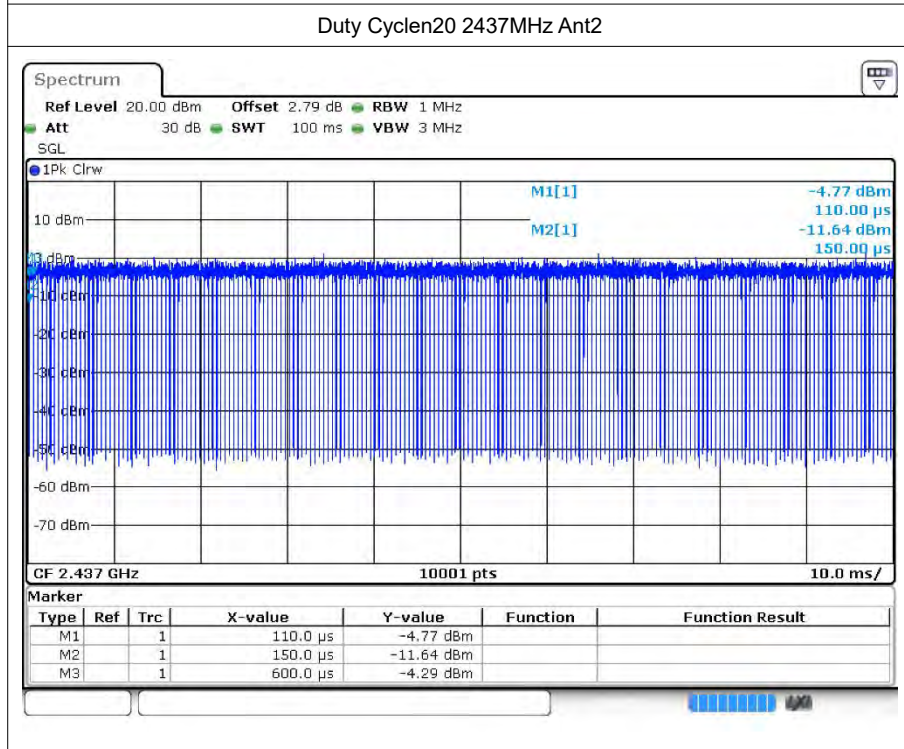
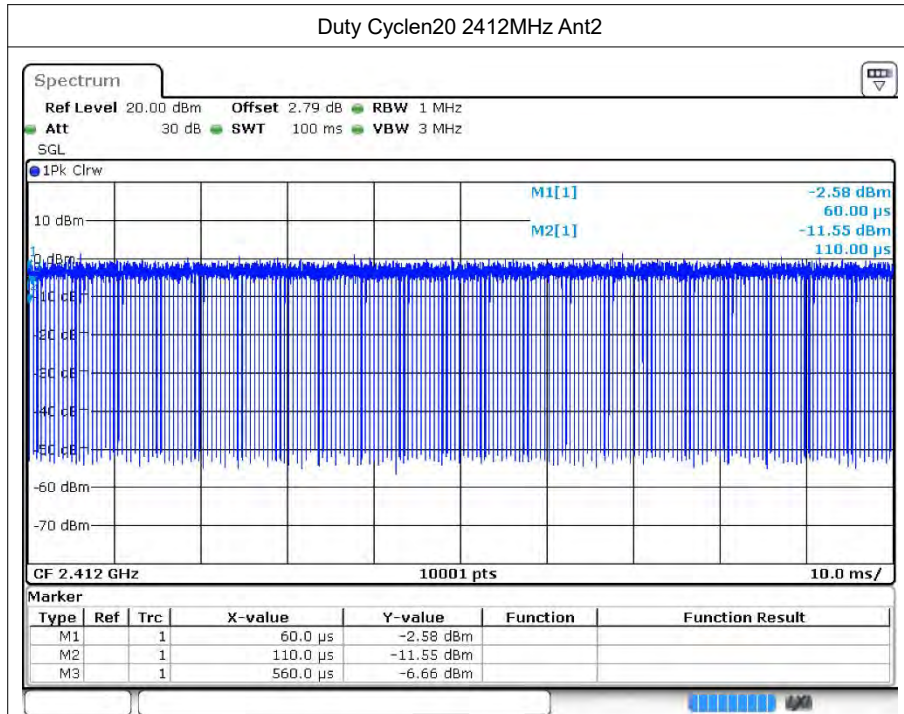


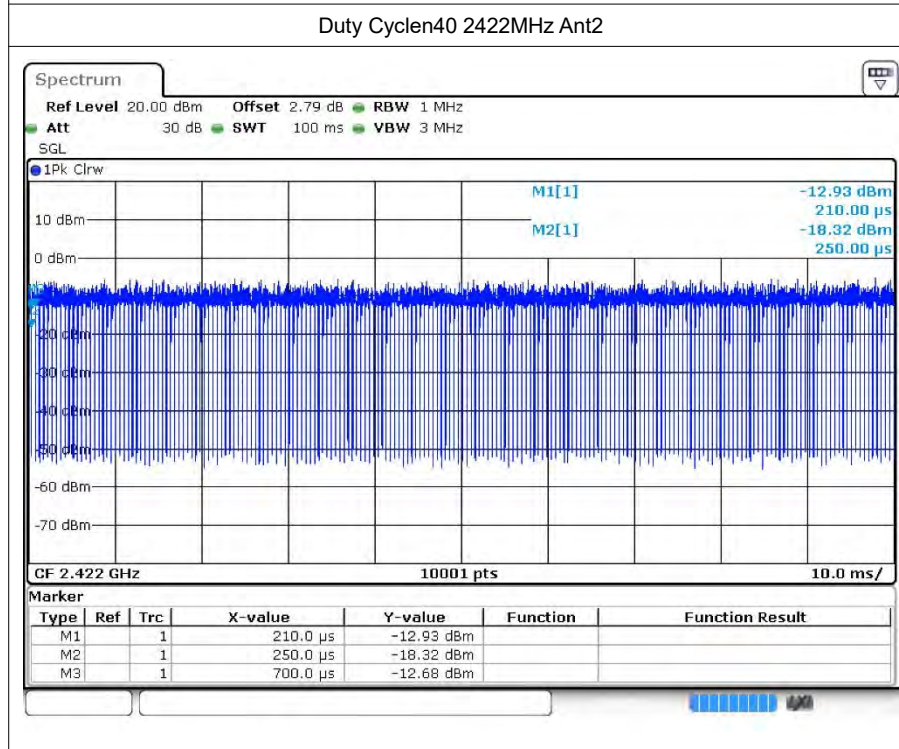
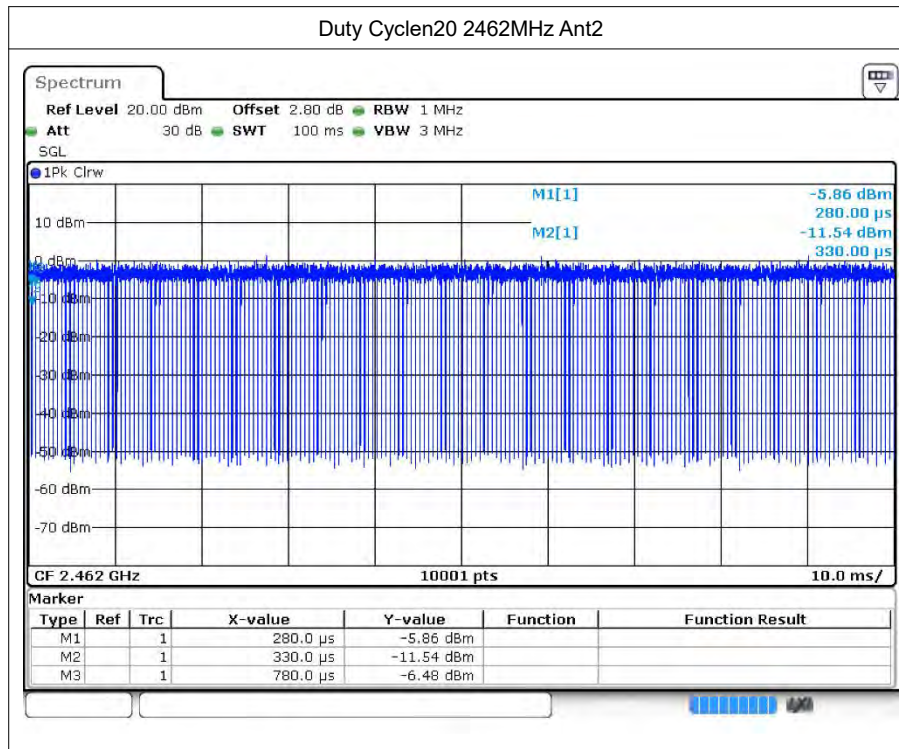


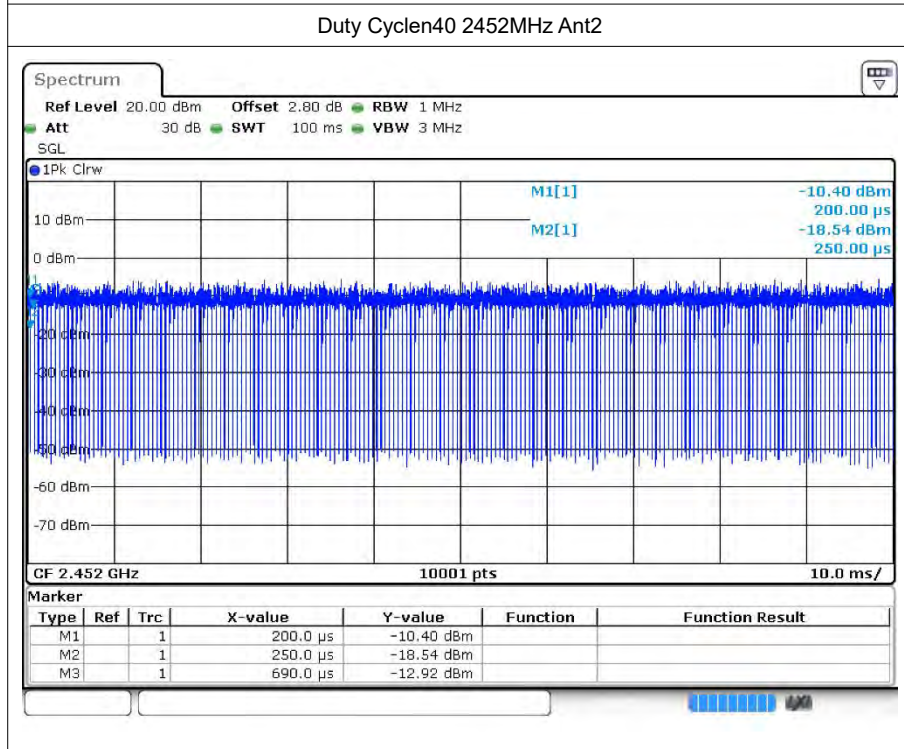
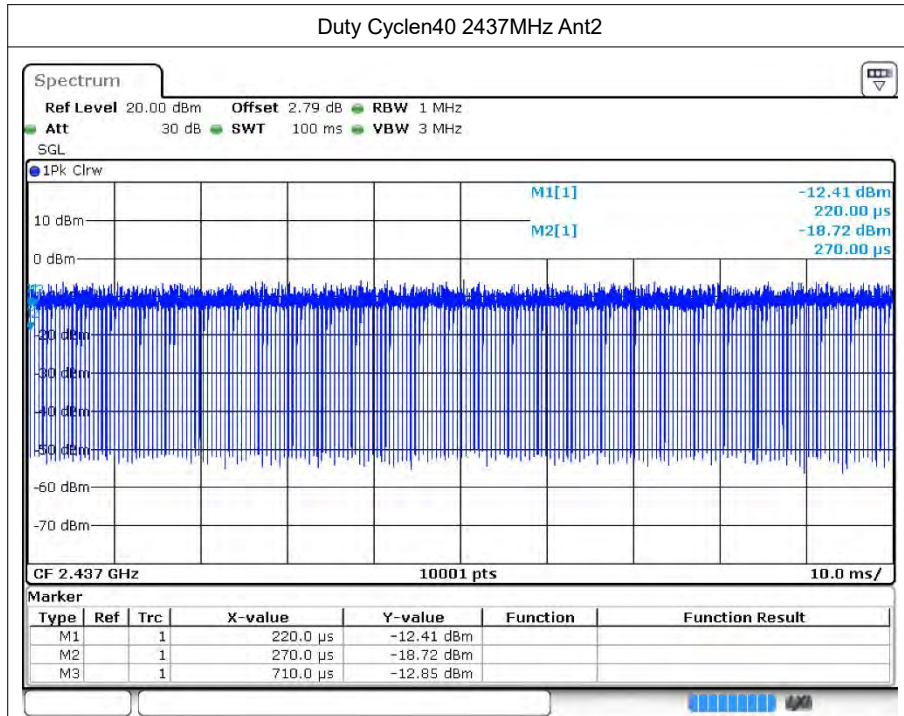












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.25	30	Pass
b	2437	Ant1	15.22	30	Pass
b	2462	Ant1	15.14	30	Pass
b	2412	Ant2	14.99	30	Pass
b	2437	Ant2	14.93	30	Pass
b	2462	Ant2	14.11	30	Pass
g	2412	Ant1	14.86	30	Pass
g	2437	Ant1	14.9	30	Pass
g	2462	Ant1	14.85	30	Pass
g	2412	Ant2	14.23	30	Pass
g	2437	Ant2	14.26	30	Pass
g	2462	Ant2	14.23	30	Pass
n20	2412	Ant1	12.1	30	Pass
n20	2437	Ant1	12.13	30	Pass
n20	2462	Ant1	11.93	30	Pass
n20	2412	Ant2	11.36	30	Pass
n20	2437	Ant2	11.24	30	Pass
n20	2462	Ant2	11.37	30	Pass
n20	2412	Sum	14.76	30	Pass
n20	2437	Sum	14.72	30	Pass
n20	2462	Sum	14.67	30	Pass
n40	2422	Ant1	11.61	30	Pass
n40	2437	Ant1	11.55	30	Pass
n40	2452	Ant1	11.58	30	Pass
n40	2422	Ant2	10.68	30	Pass
n40	2437	Ant2	10.7	30	Pass
n40	2452	Ant2	10.61	30	Pass
n40	2422	Sum	14.18	30	Pass
n40	2437	Sum	14.16	30	Pass
n40	2452	Sum	14.13	30	Pass

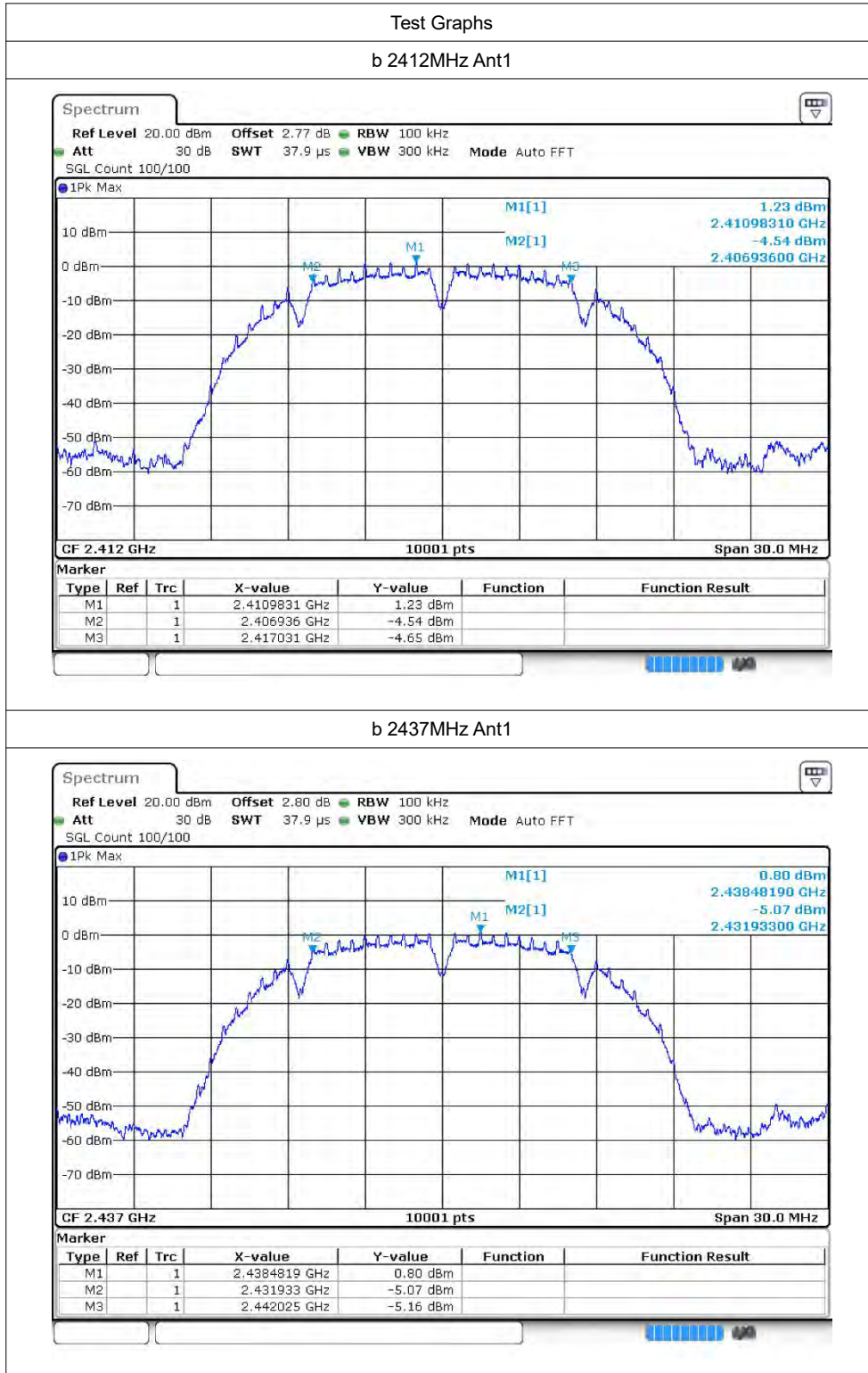


3 -6dB Bandwidth

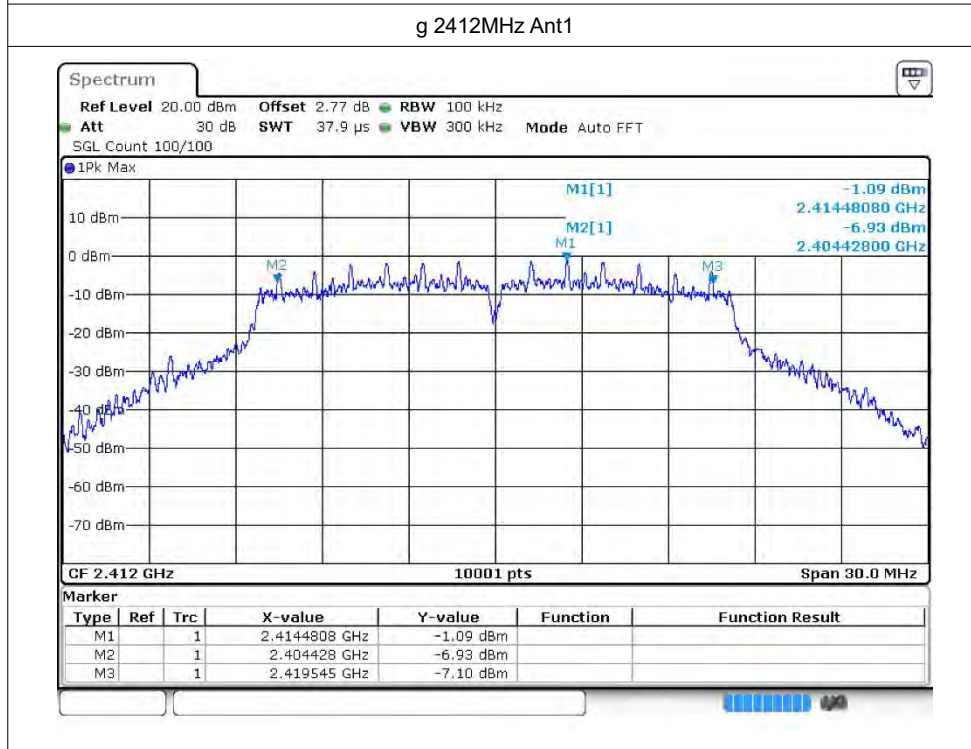
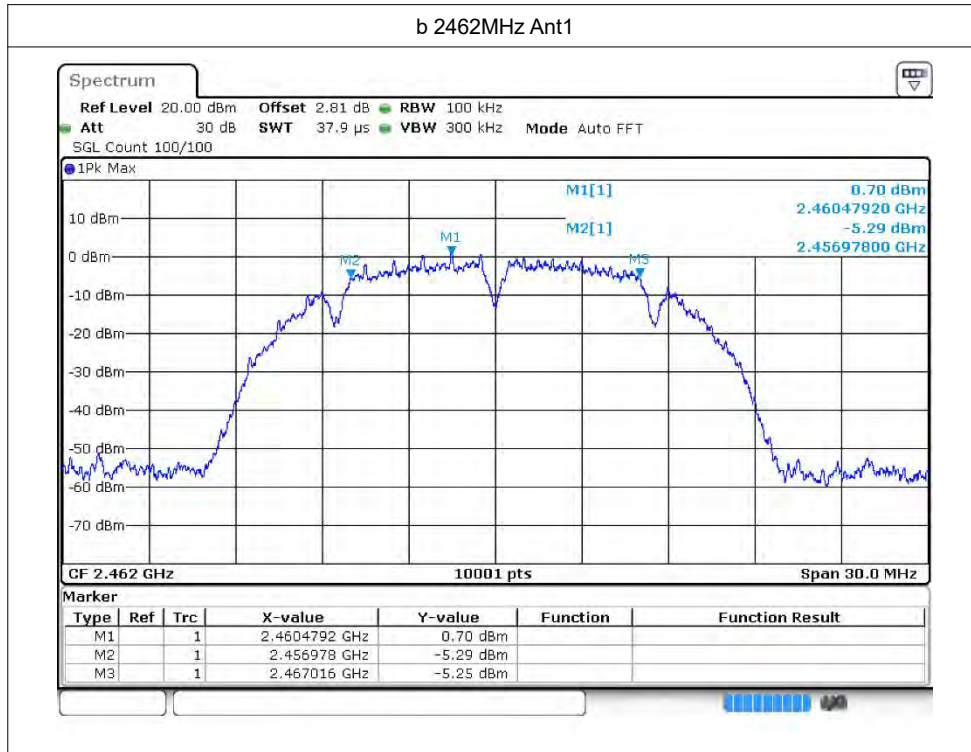
3.1 Test Result

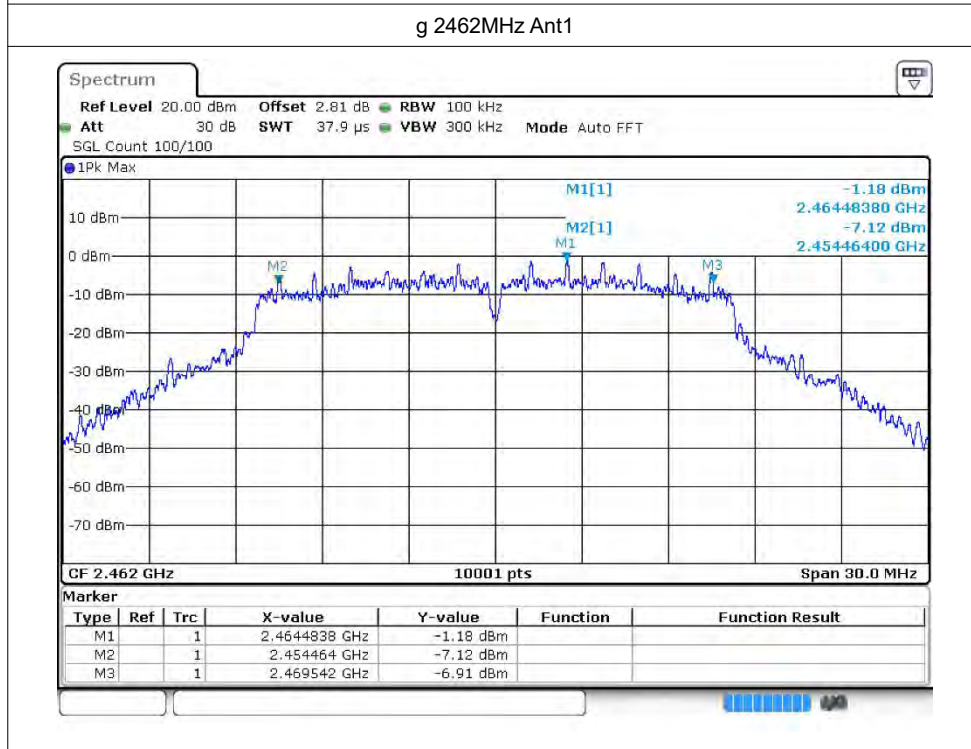
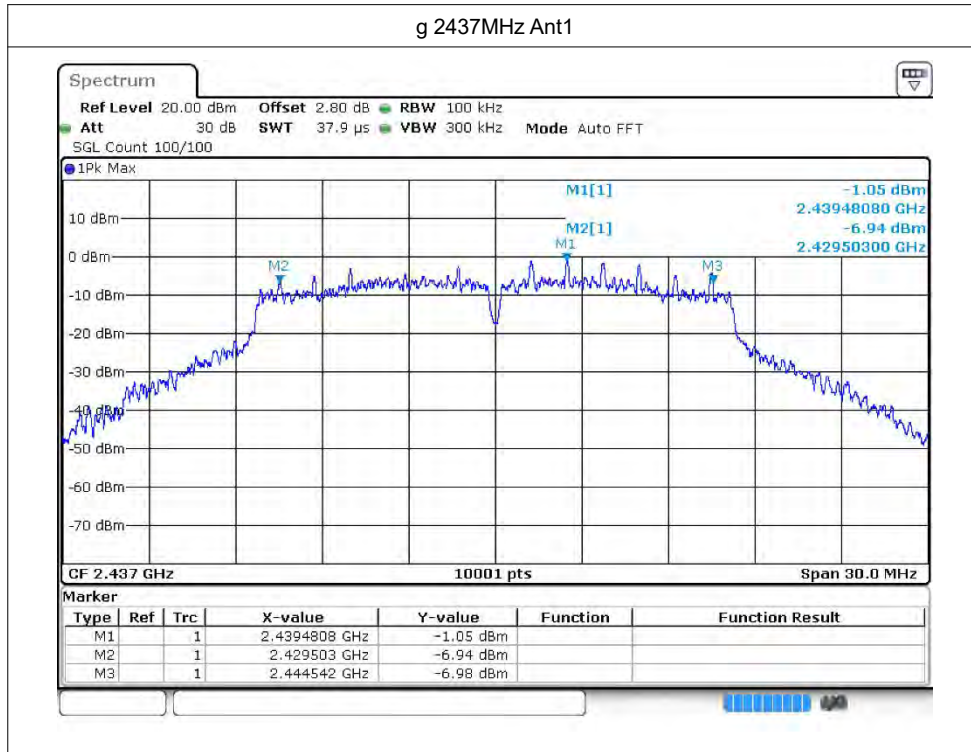
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.095	0.5	Pass
b	2437	Ant1	10.092	0.5	Pass
b	2462	Ant1	10.038	0.5	Pass
g	2412	Ant1	15.117	0.5	Pass
g	2437	Ant1	15.039	0.5	Pass
g	2462	Ant1	15.078	0.5	Pass
n20	2412	Ant1	15.096	0.5	Pass
n20	2437	Ant1	15.105	0.5	Pass
n20	2462	Ant1	15.111	0.5	Pass
n40	2422	Ant1	35.082	0.5	Pass
n40	2437	Ant1	33.834	0.5	Pass
n40	2452	Ant1	35.07	0.5	Pass
b	2412	Ant2	10.08	0.5	Pass
b	2437	Ant2	9.909	0.5	Pass
b	2462	Ant2	10.098	0.5	Pass
g	2412	Ant2	15.084	0.5	Pass
g	2437	Ant2	15.117	0.5	Pass
g	2462	Ant2	15.093	0.5	Pass
n20	2412	Ant2	13.854	0.5	Pass
n20	2437	Ant2	15.111	0.5	Pass
n20	2462	Ant2	15.102	0.5	Pass
n40	2422	Ant2	31.296	0.5	Pass
n40	2437	Ant2	35.676	0.5	Pass
n40	2452	Ant2	31.392	0.5	Pass

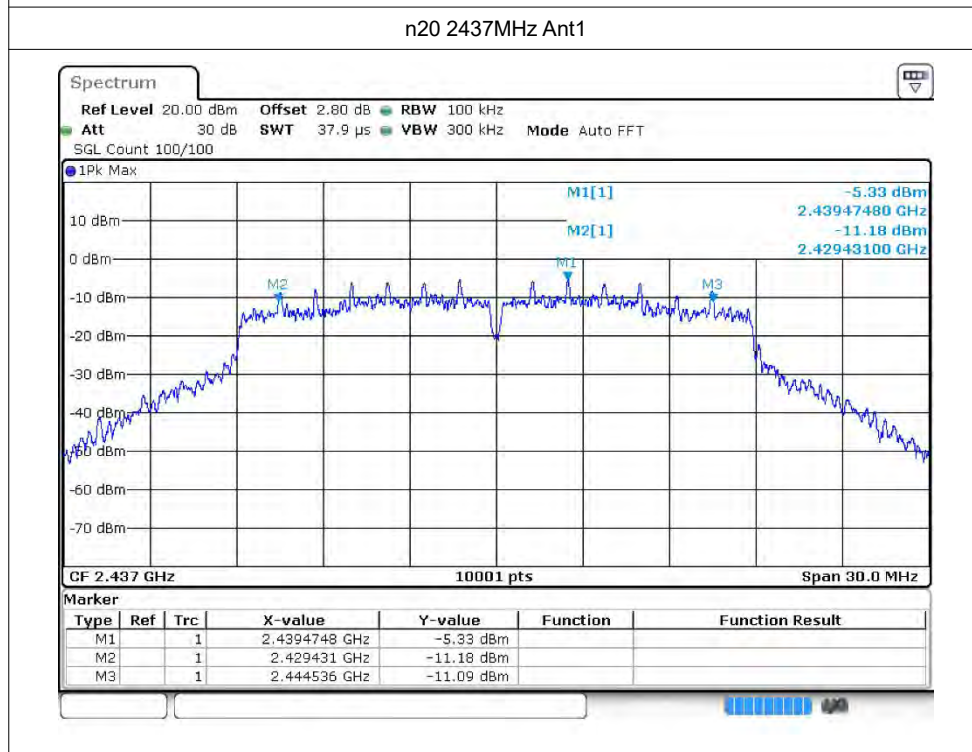
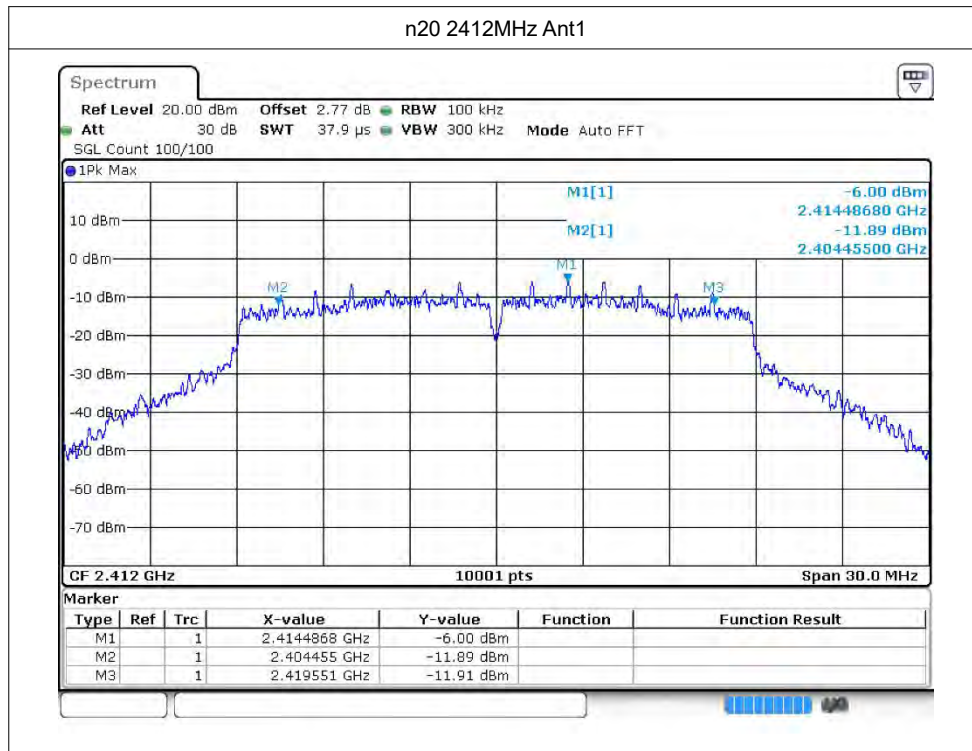
3.2 Test Graphs

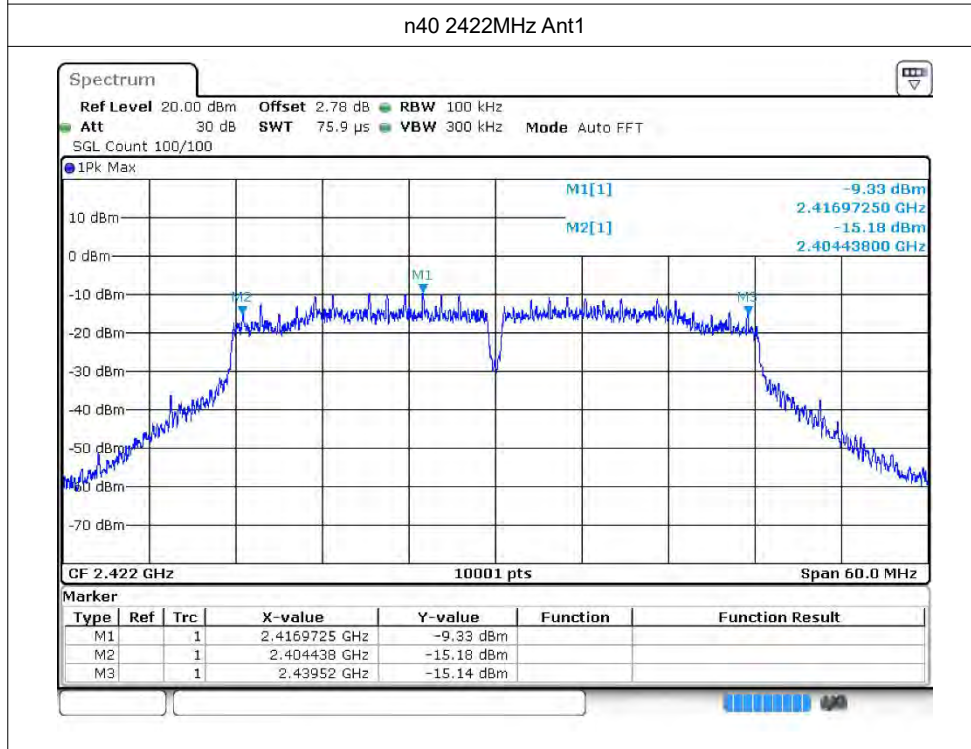
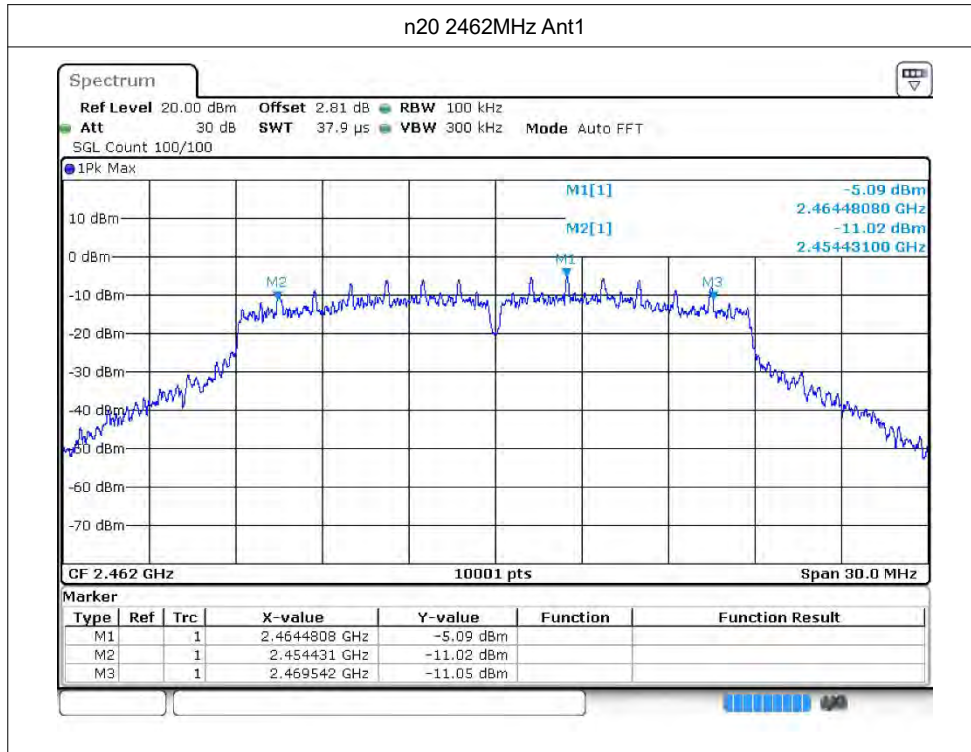


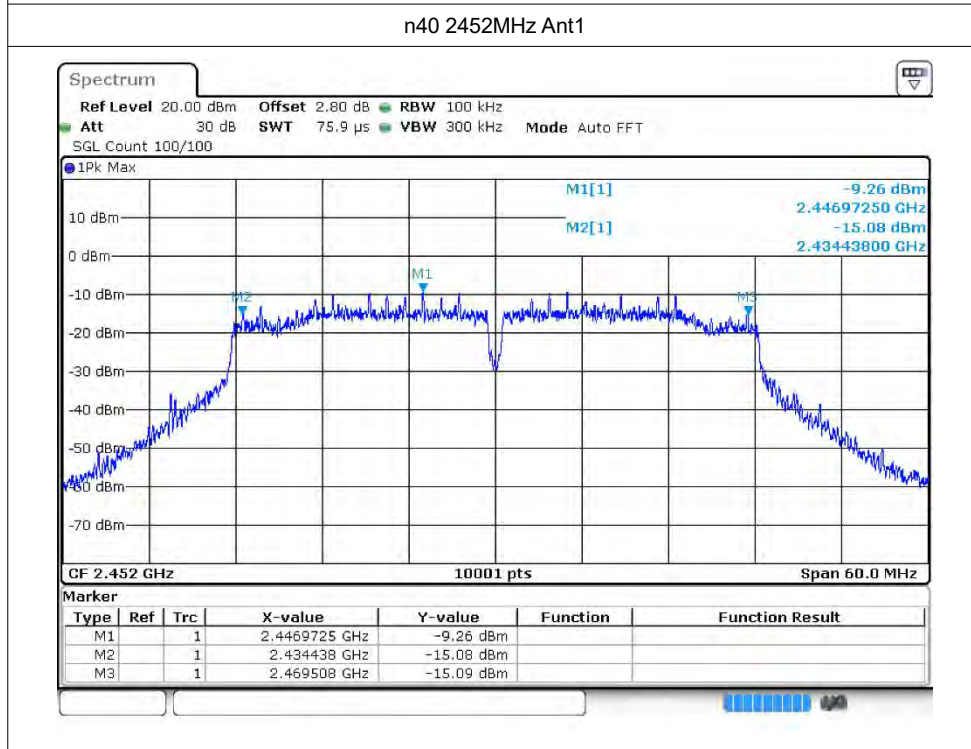
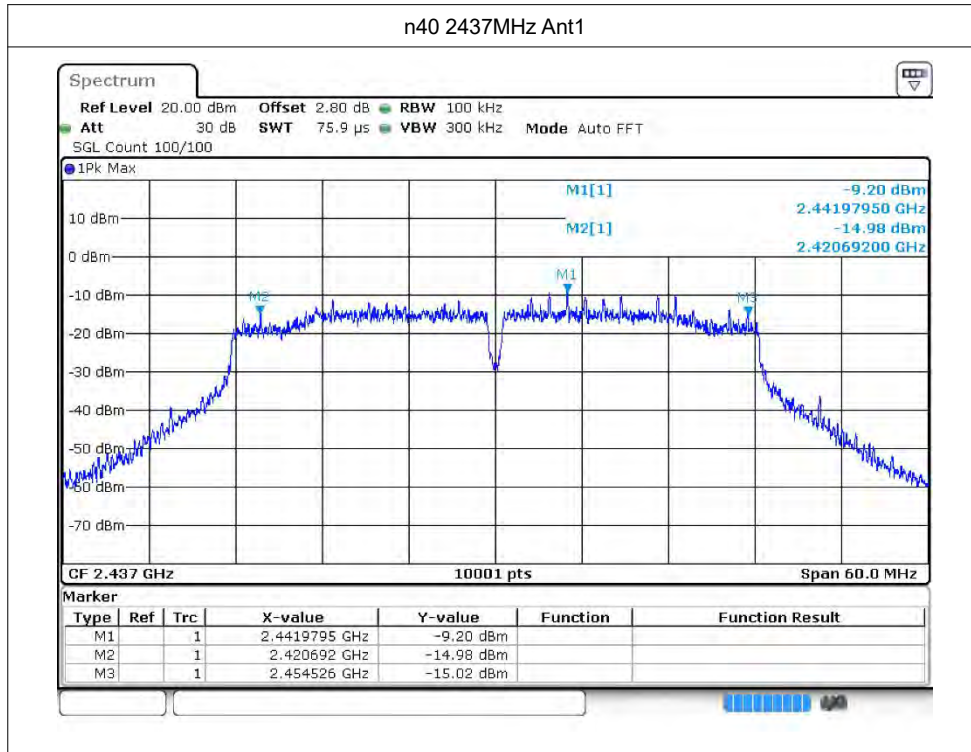
b 2437MHz Ant1

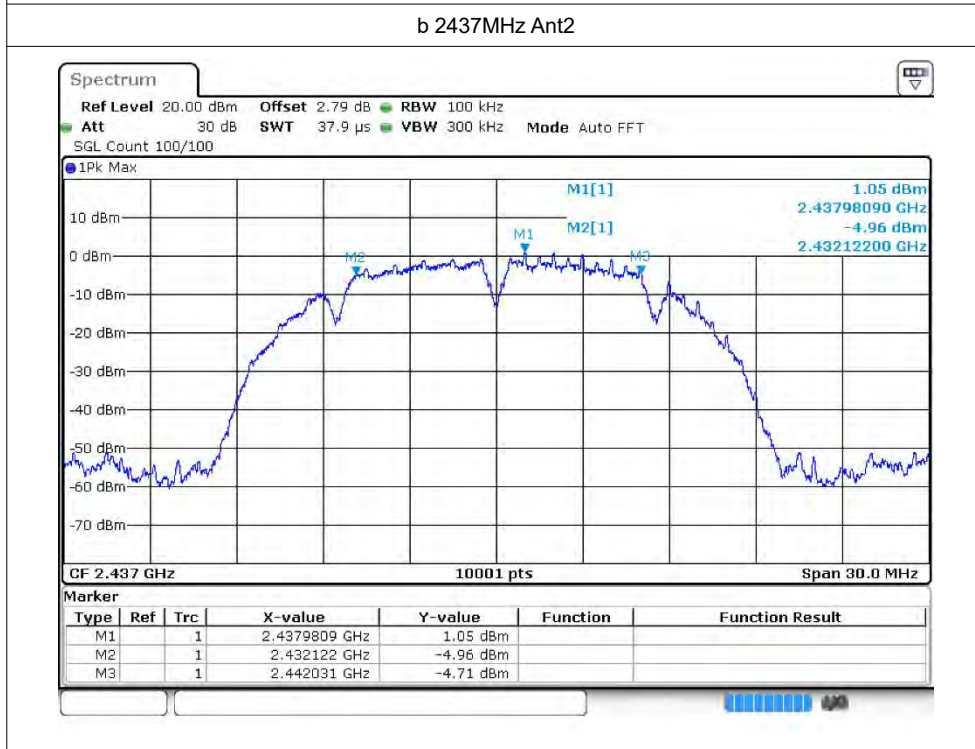
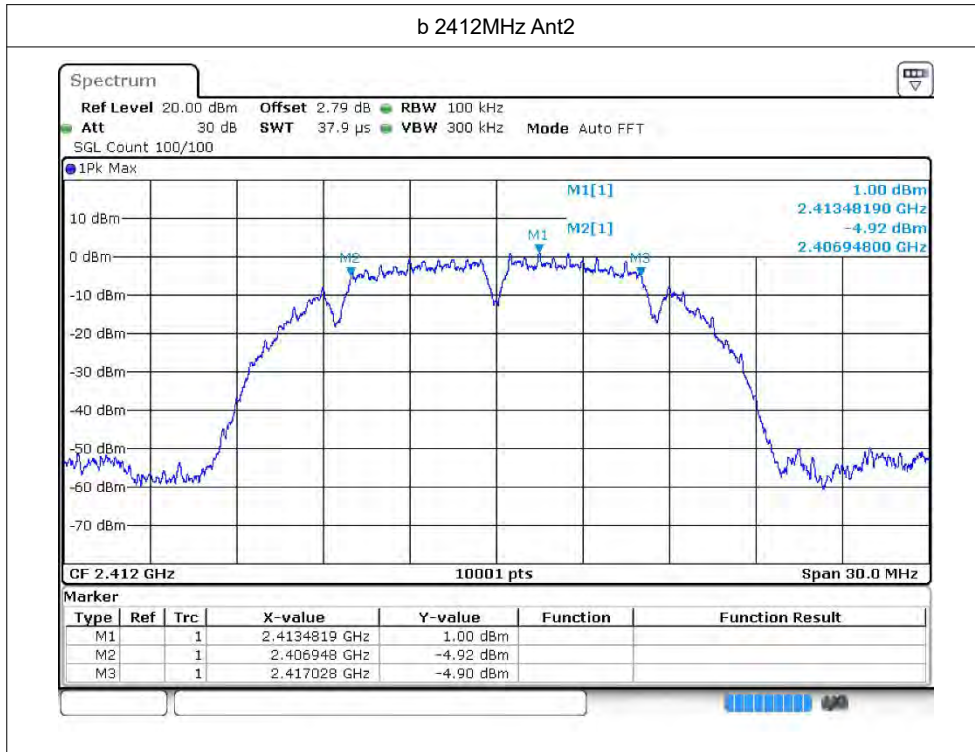


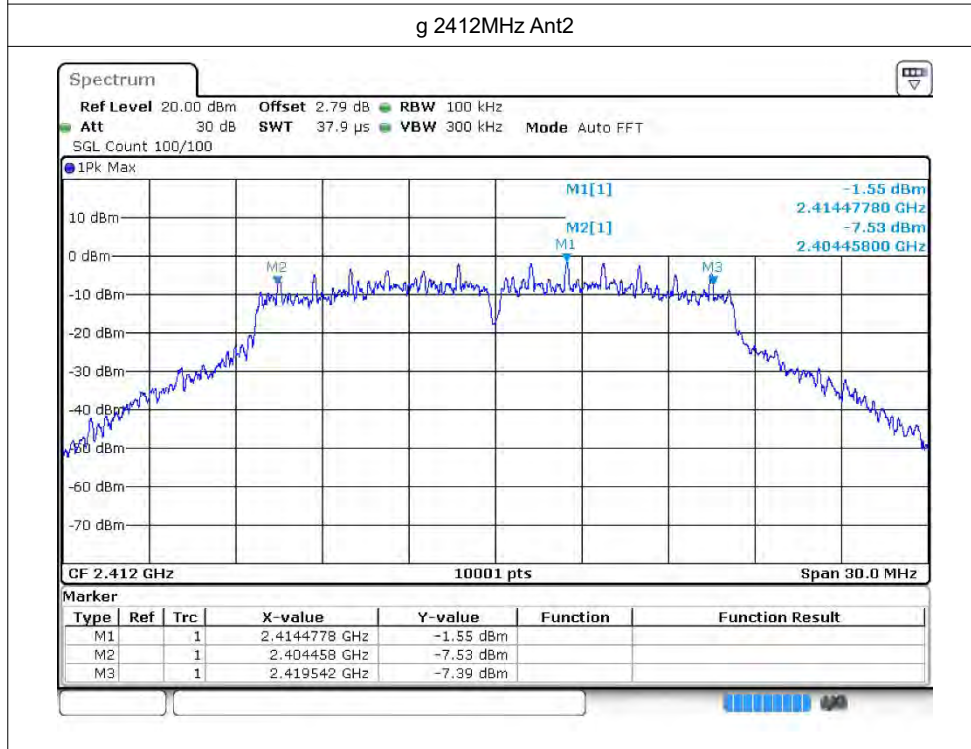
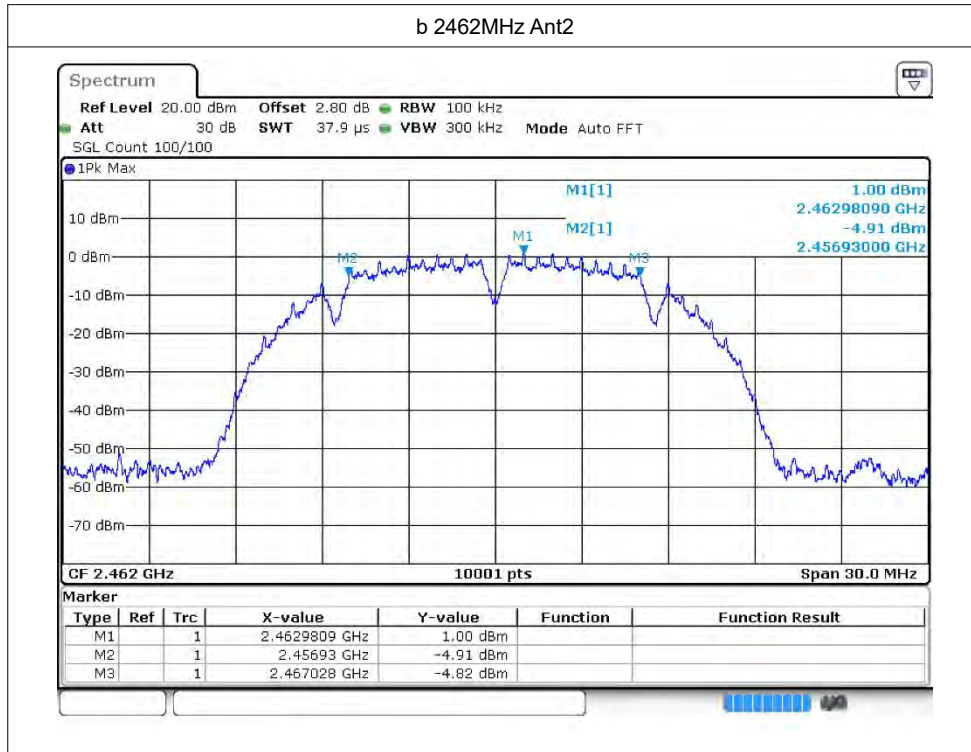


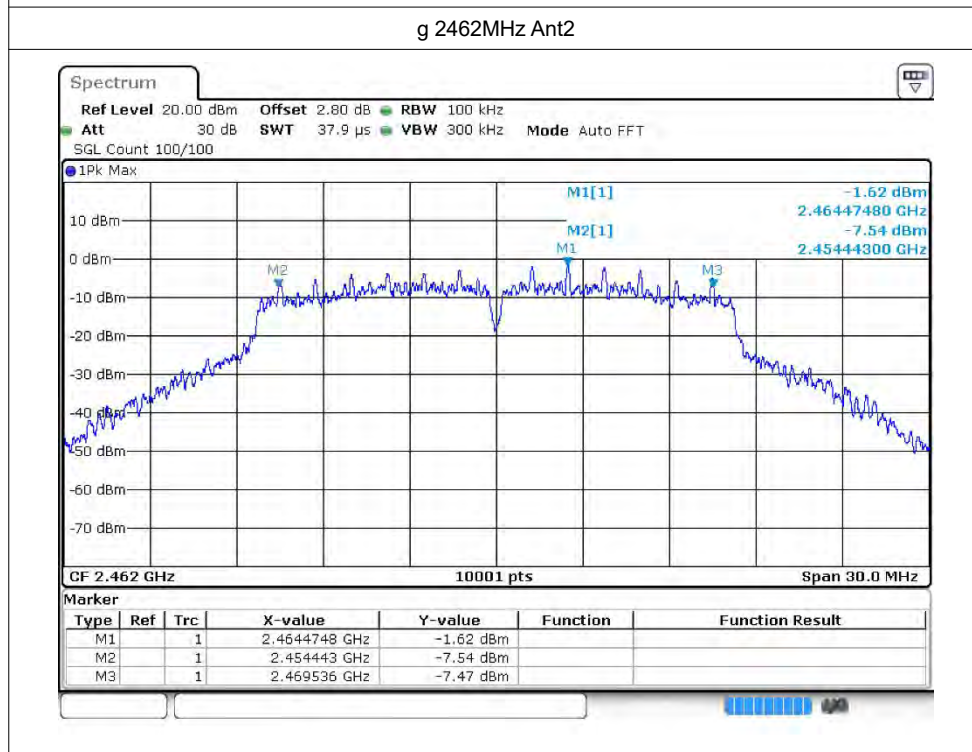
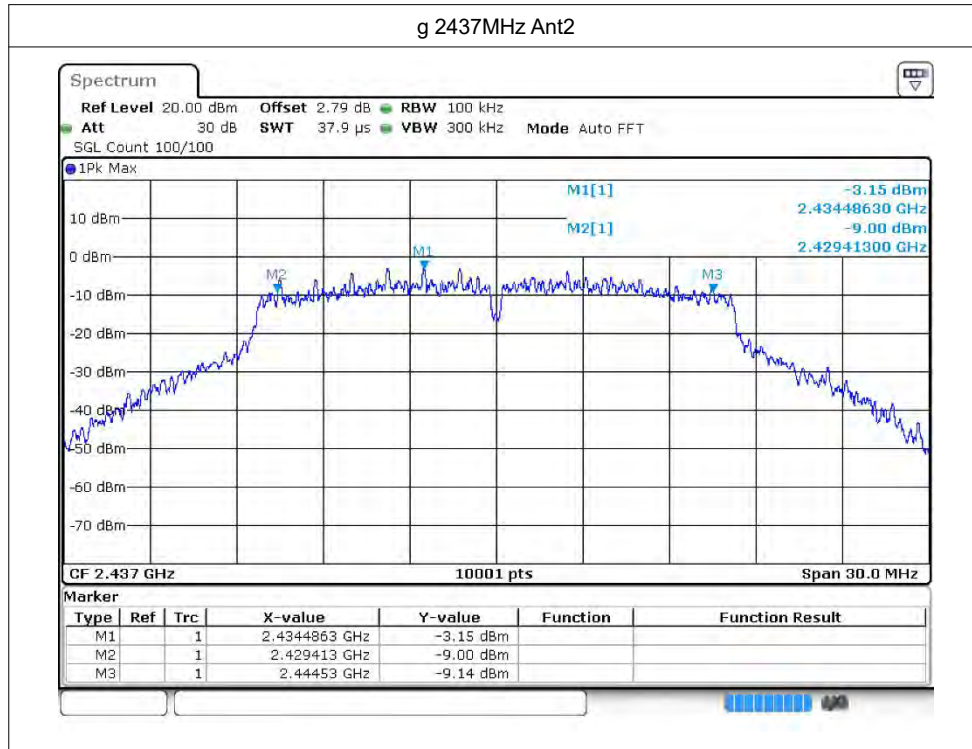


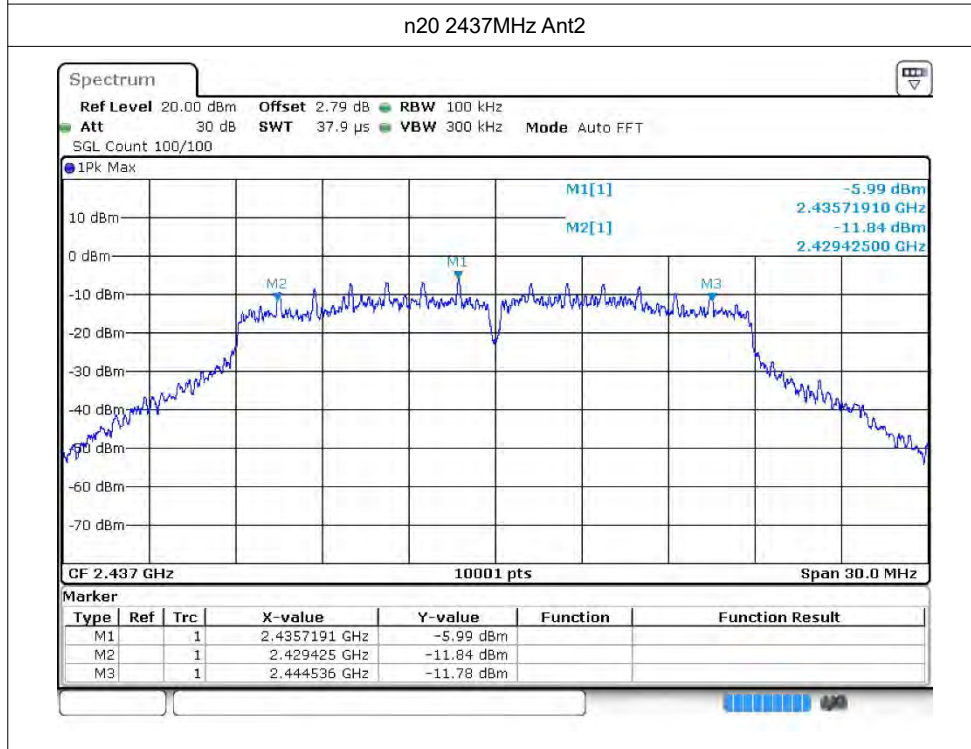
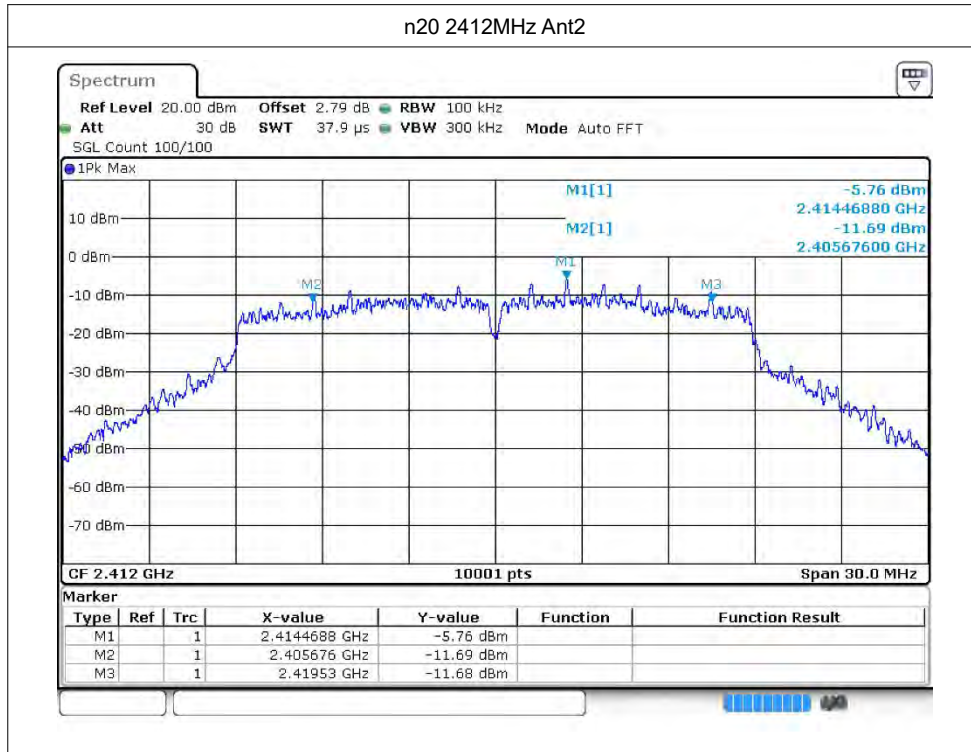


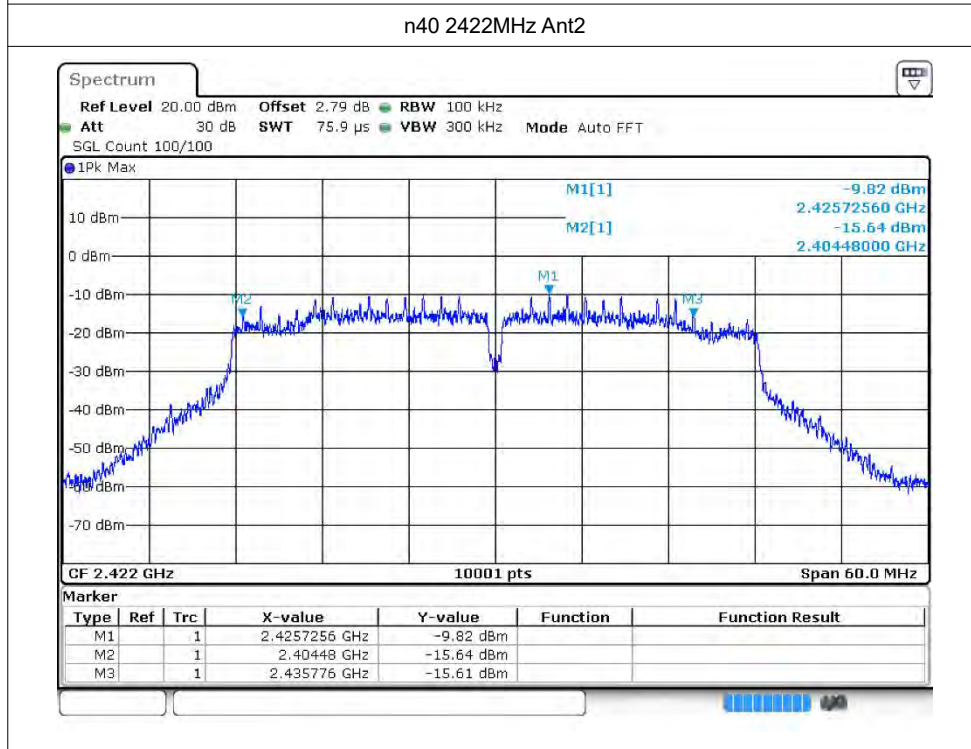
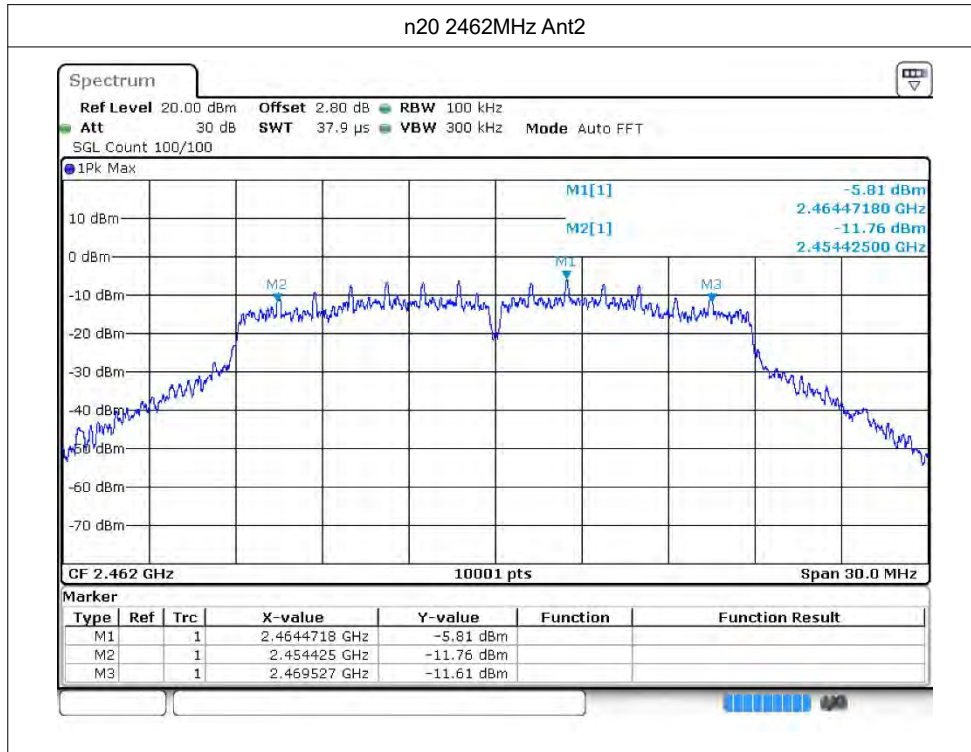


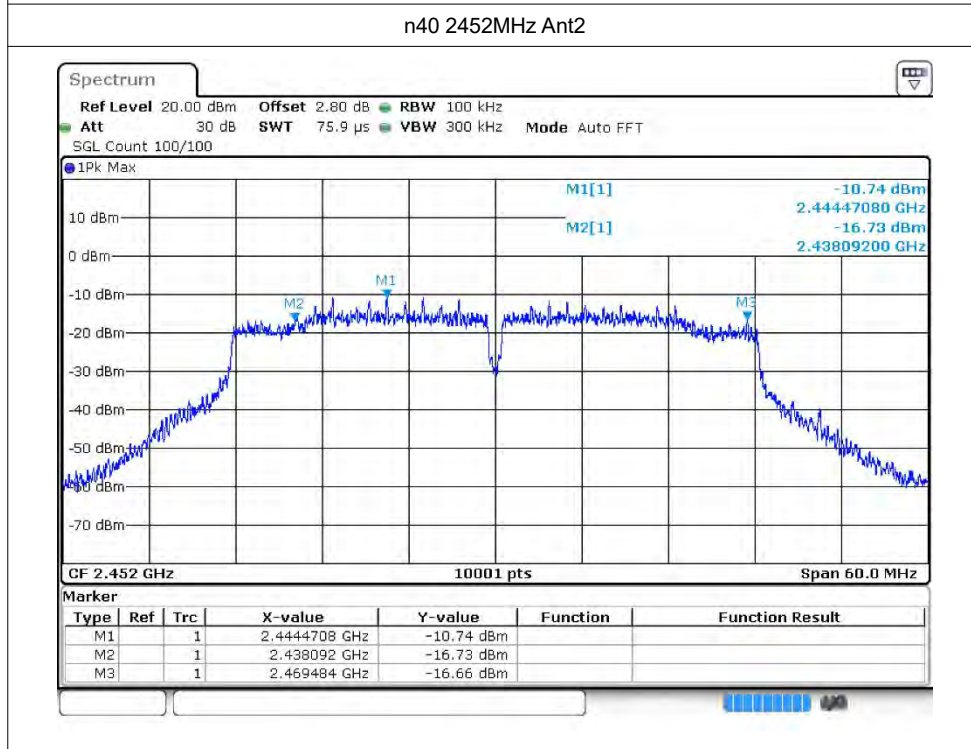
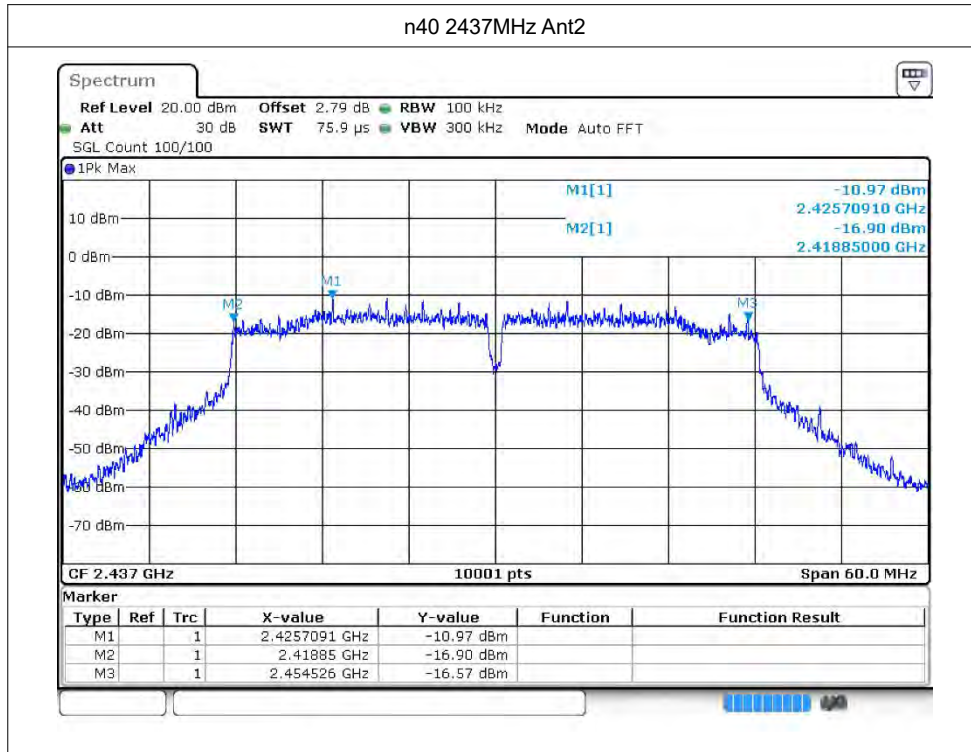












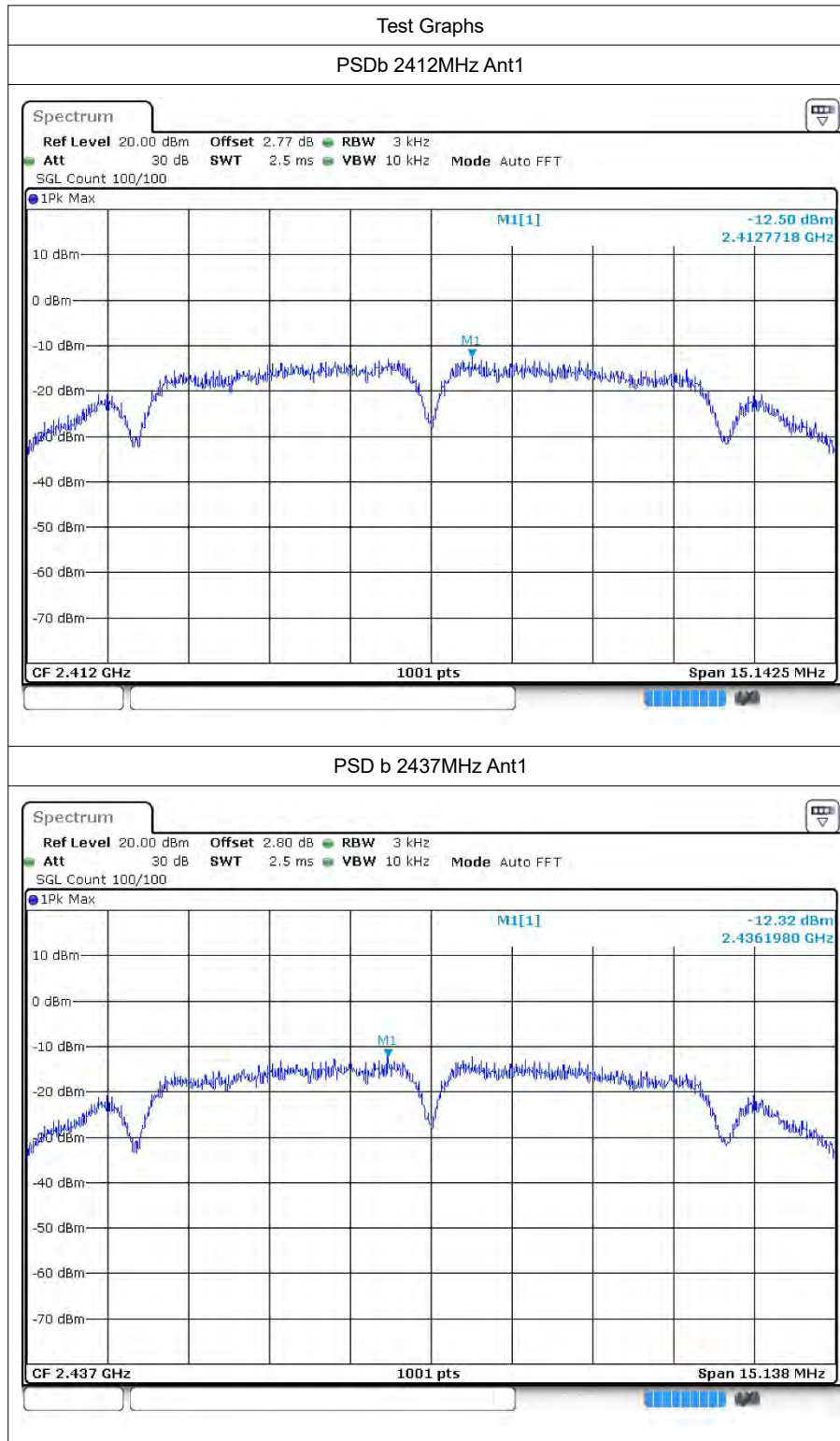


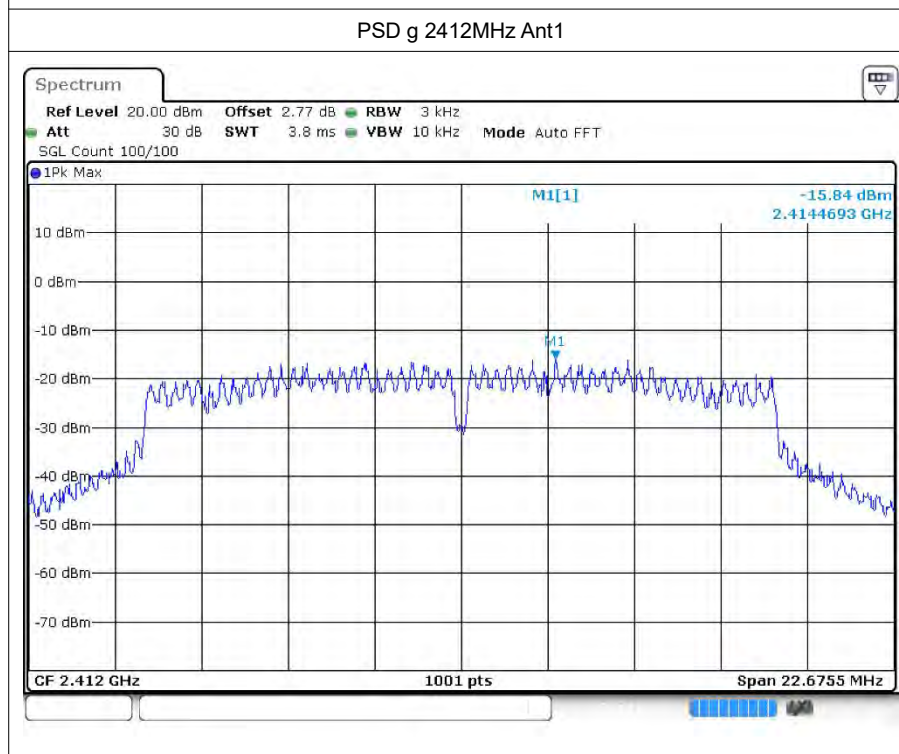
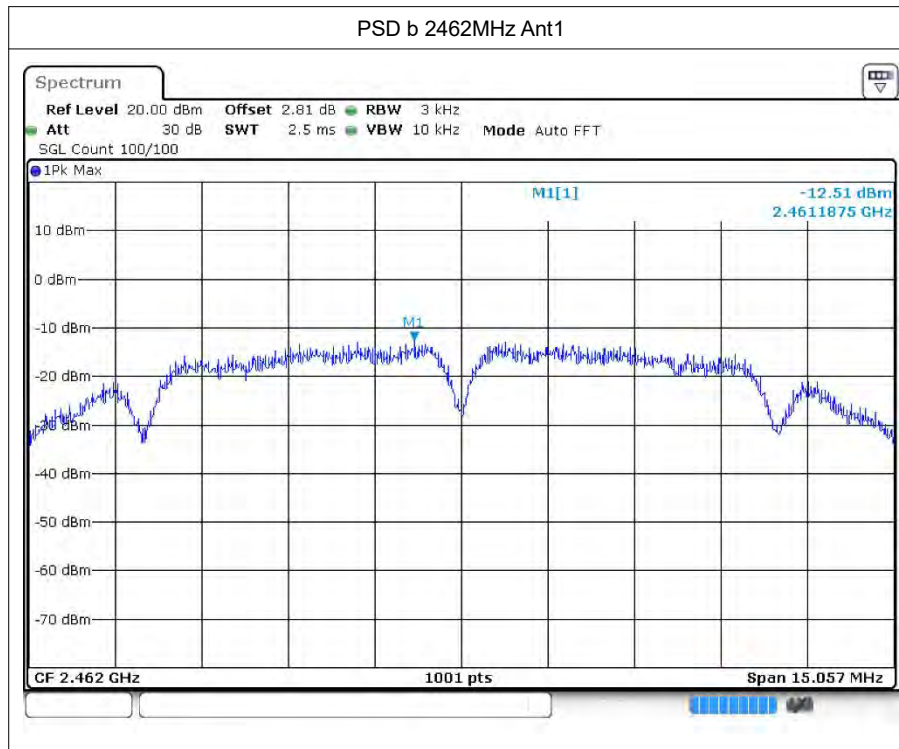
4 Maximum Power Spectral Density Level

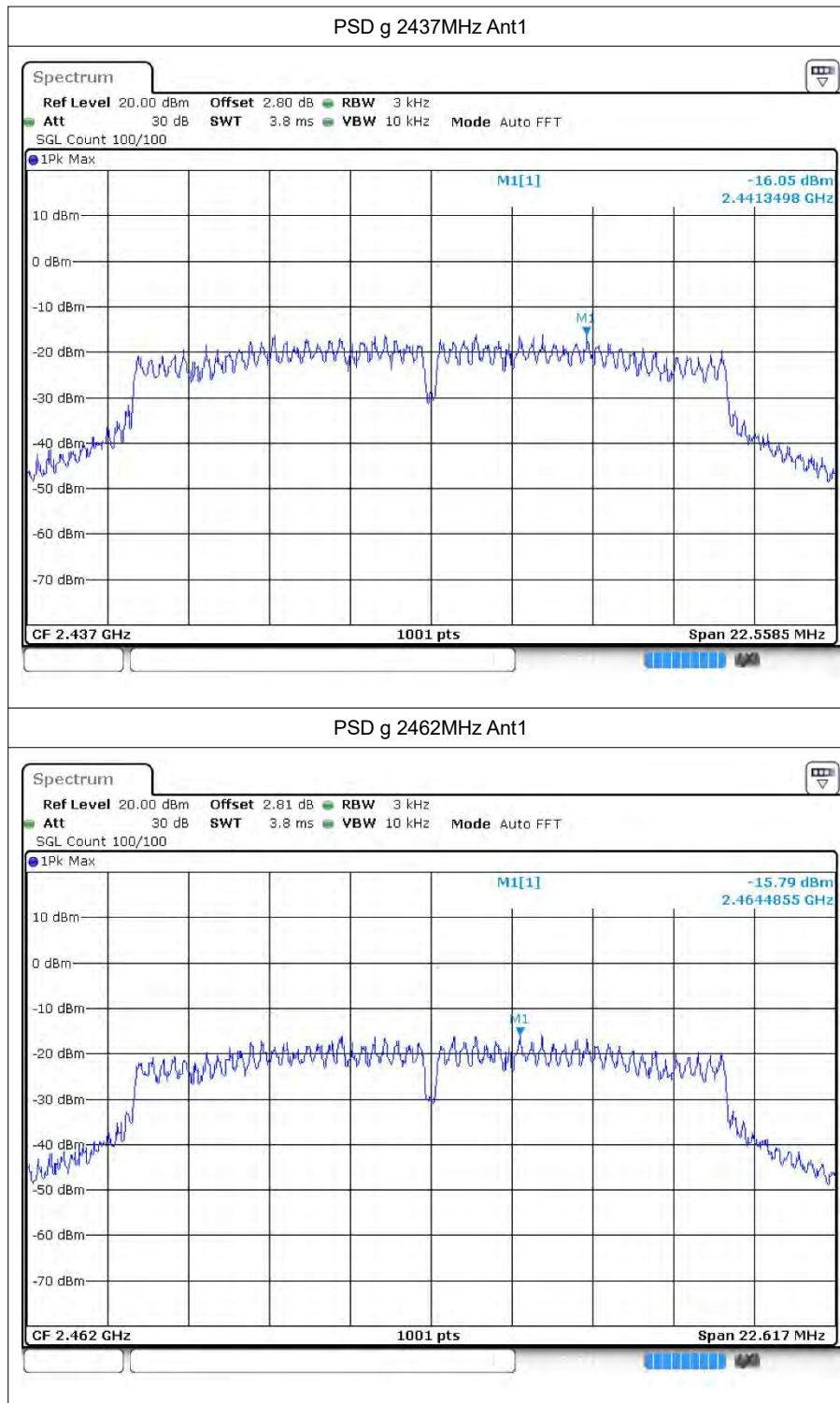
4.1 Test Result

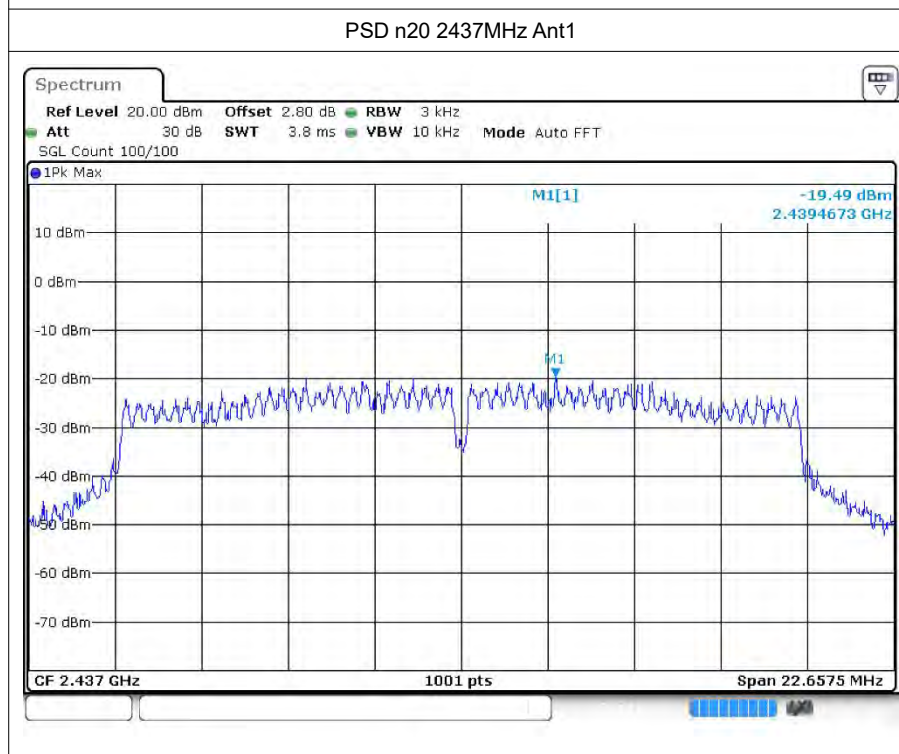
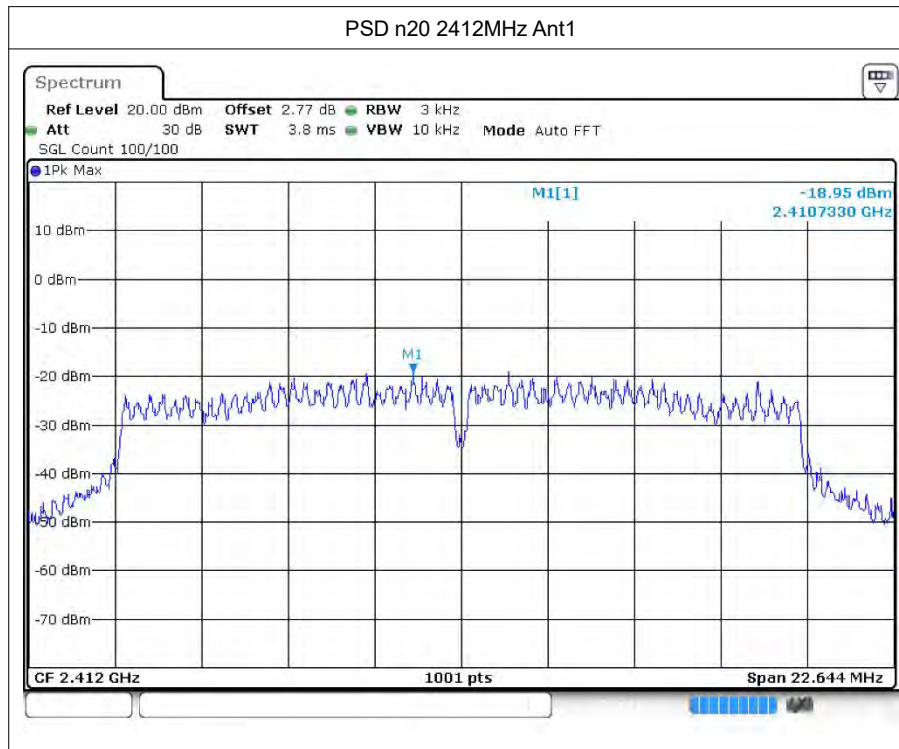
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-12.5	≤8	Pass
b	2437	Ant1	-12.32	≤8	Pass
b	2462	Ant1	-12.51	≤8	Pass
g	2412	Ant1	-15.84	≤8	Pass
g	2437	Ant1	-16.05	≤8	Pass
g	2462	Ant1	-15.79	≤8	Pass
n20	2412	Ant1	-18.95	≤8	Pass
n20	2437	Ant1	-19.49	≤8	Pass
n20	2462	Ant1	-19.15	≤8	Pass
n40	2422	Ant1	-22.67	≤8	Pass
n40	2437	Ant1	-23.22	≤8	Pass
n40	2452	Ant1	-23.49	≤8	Pass
b	2412	Ant2	-12.51	≤8	Pass
b	2437	Ant2	-12.29	≤8	Pass
b	2462	Ant2	-12.34	≤8	Pass
g	2412	Ant2	-15.75	≤8	Pass
g	2437	Ant2	-17.06	≤8	Pass
g	2462	Ant2	-16.71	≤8	Pass
n20	2412	Ant2	-19.93	≤8	Pass
n20	2437	Ant2	-20.58	≤8	Pass
n20	2462	Ant2	-20.12	≤8	Pass
n40	2422	Ant2	-22.61	≤8	Pass
n40	2437	Ant2	-23.11	≤8	Pass
n40	2452	Ant2	-23.85	≤8	Pass
n20	2412	Sum	-16.40	≤8	Pass
n20	2437	Sum	-16.99	≤8	Pass
n20	2462	Sum	-16.60	≤8	Pass
n40	2422	Sum	-19.63	≤8	Pass
n40	2437	Sum	-20.15	≤8	Pass
n40	2452	Sum	-20.66	≤8	Pass

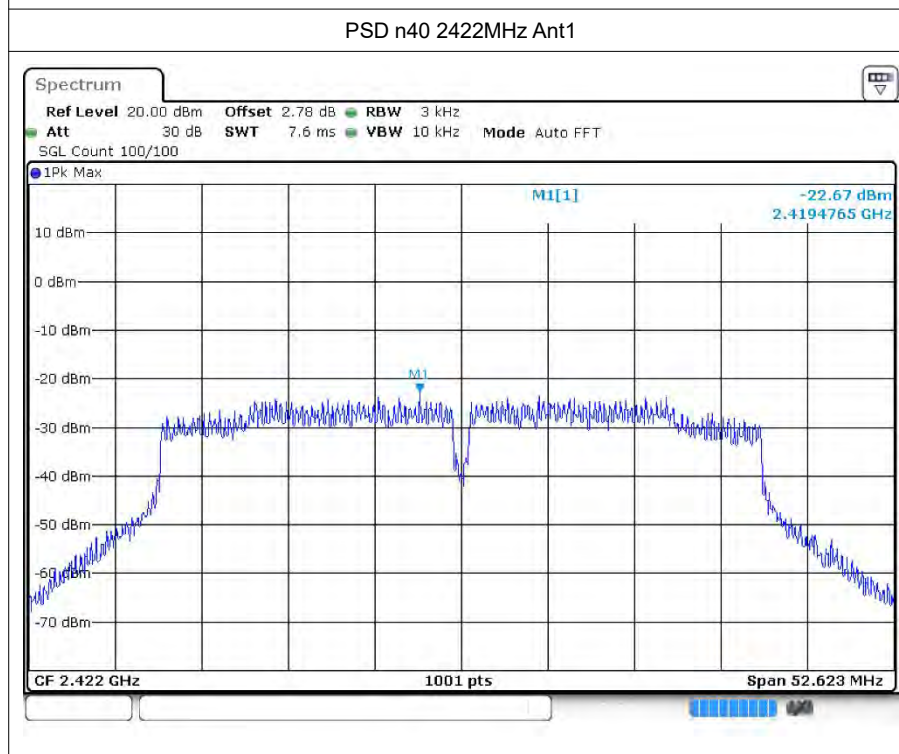
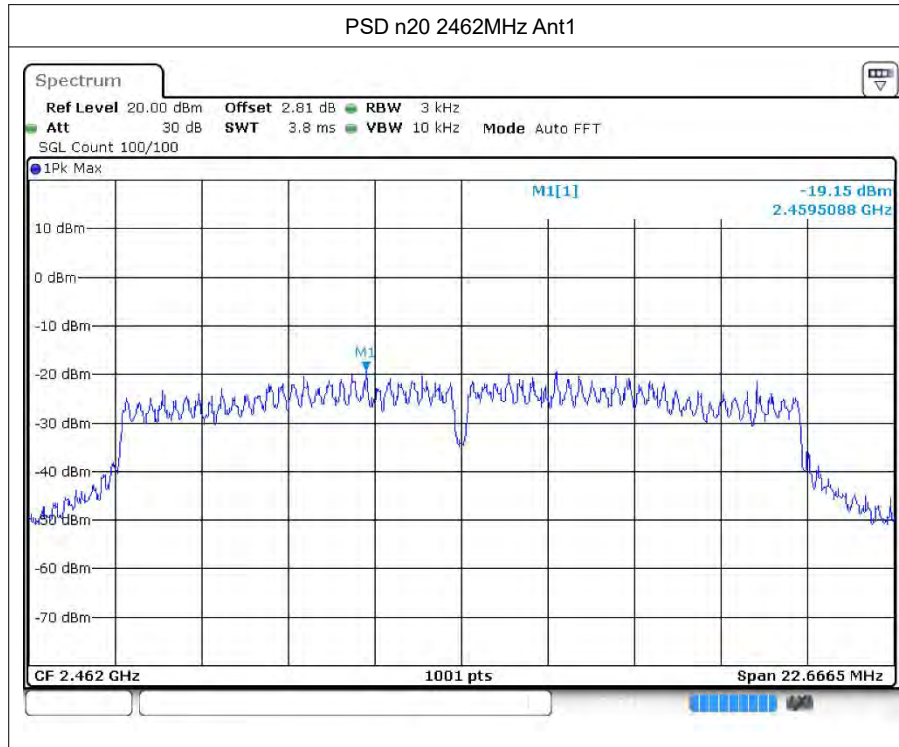
4.2 Test Graphs

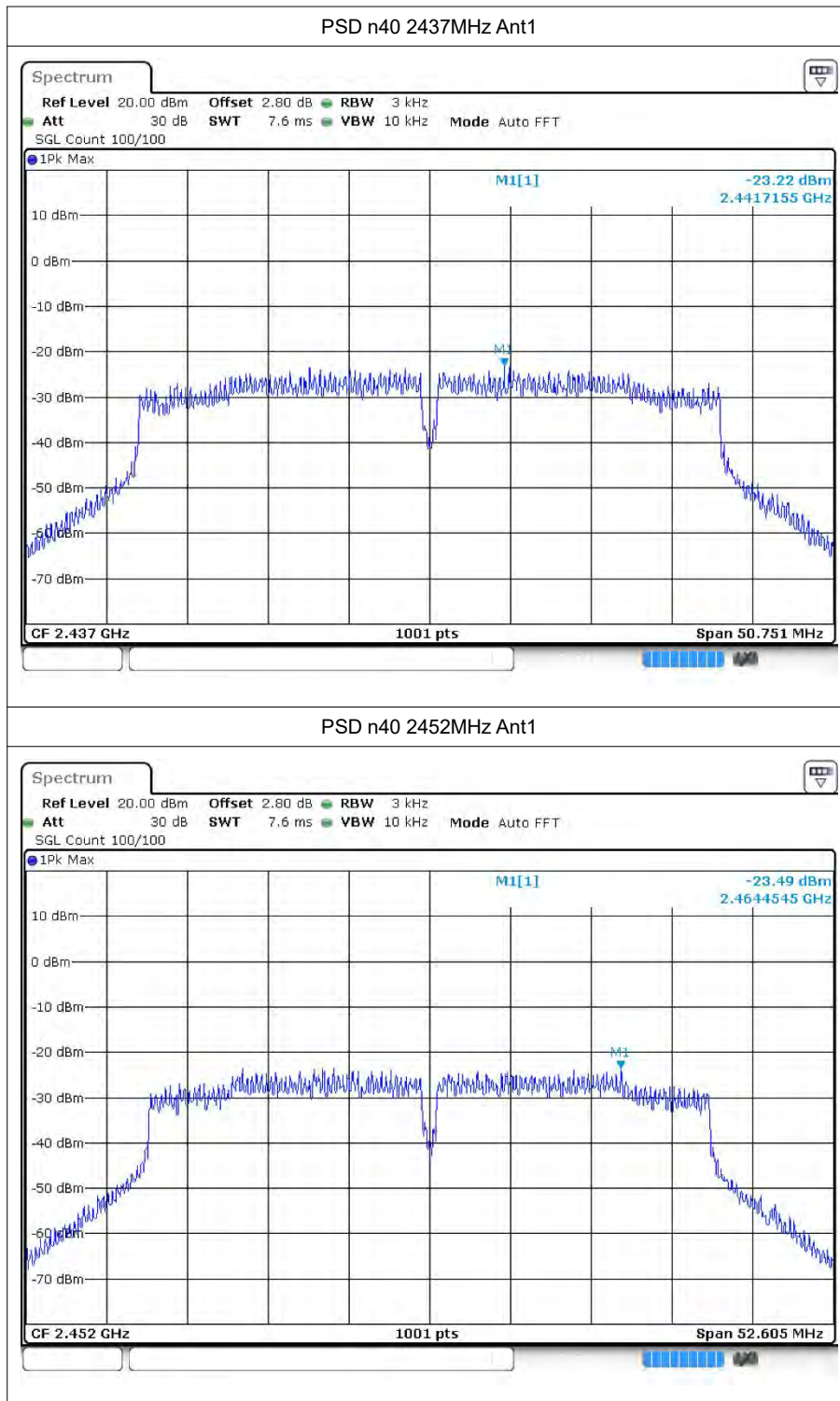












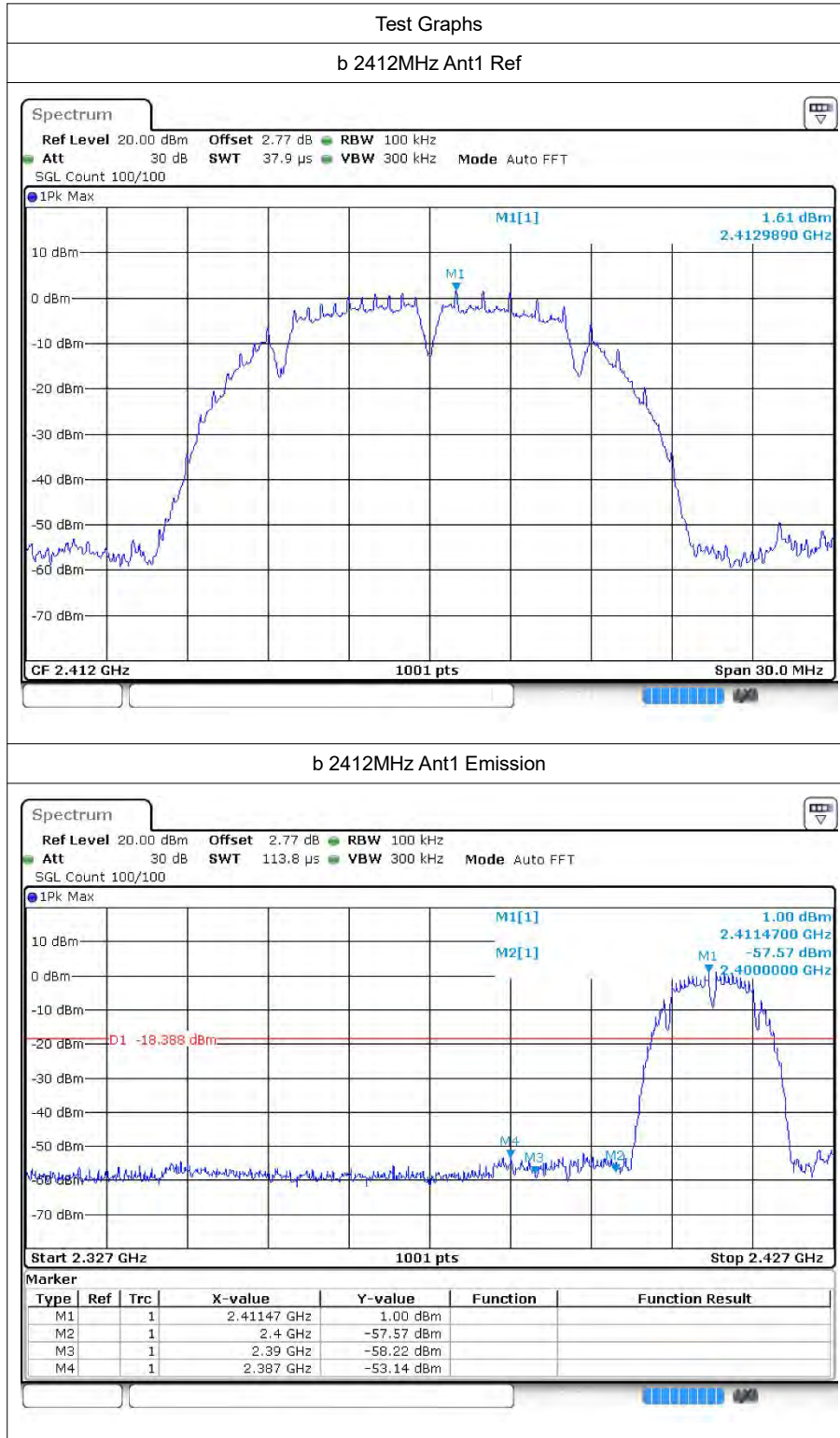


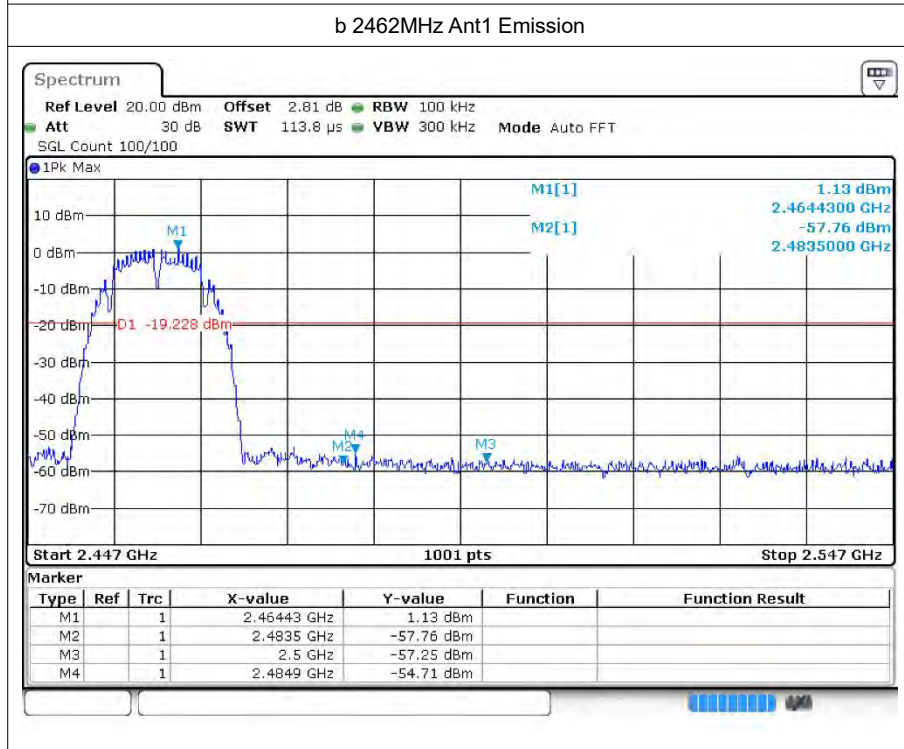
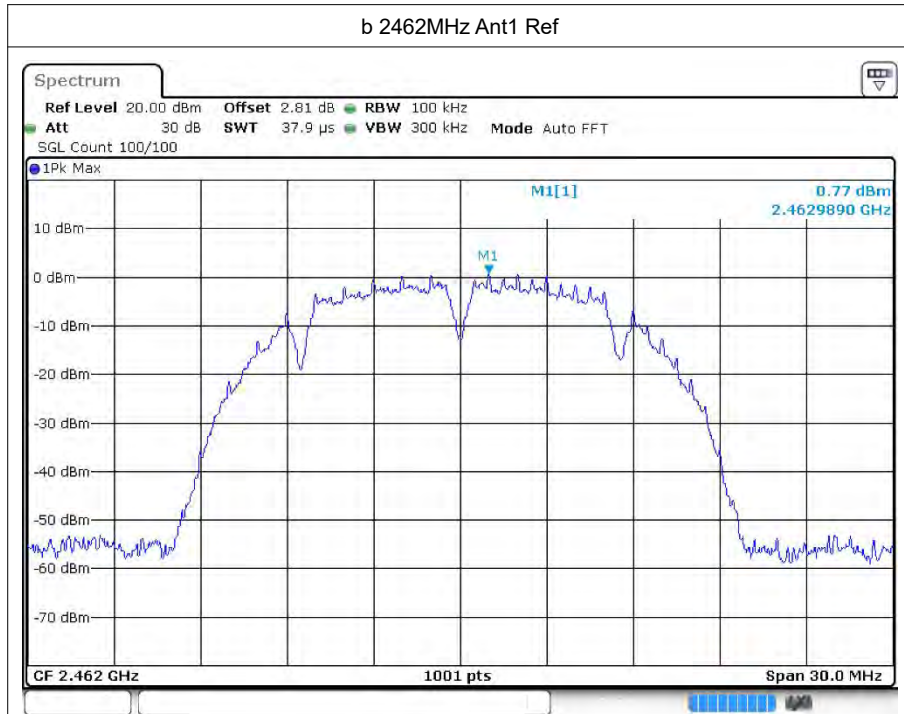
5 Band Edge

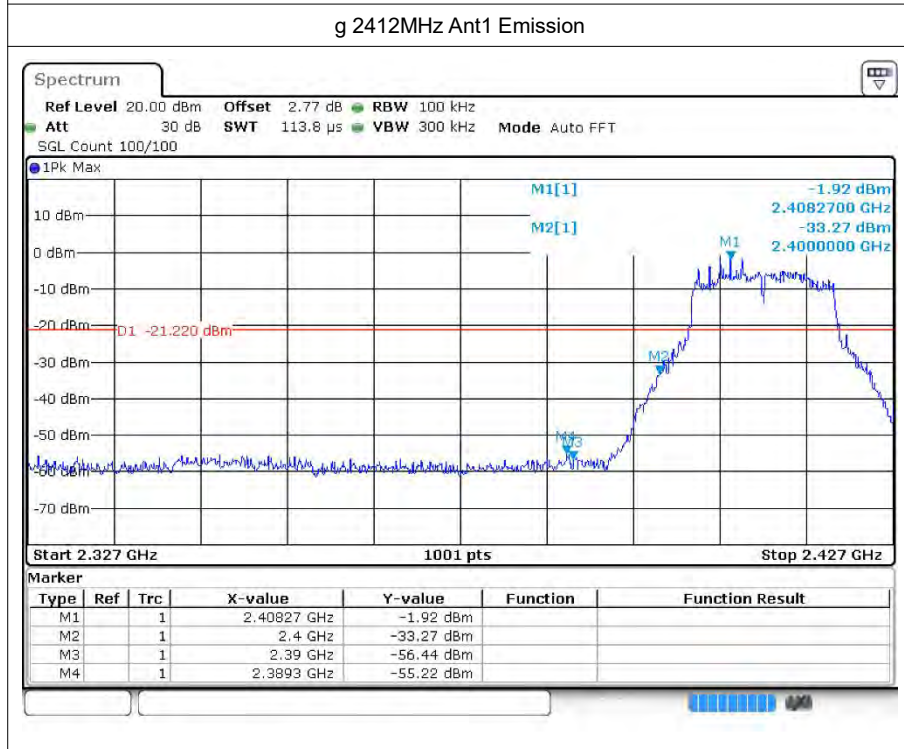
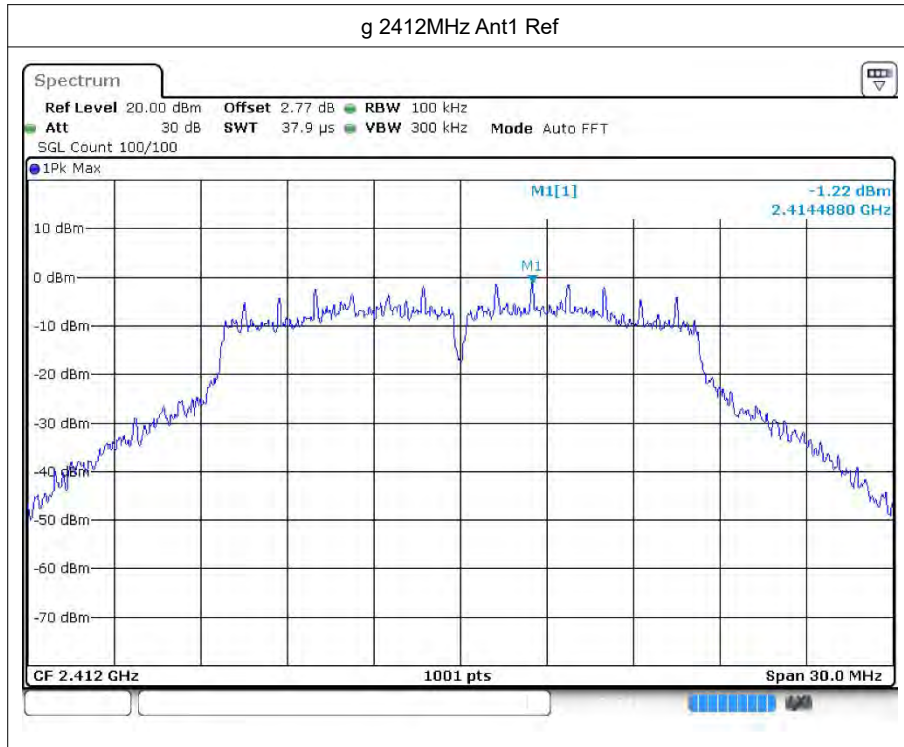
5.1 Test Result

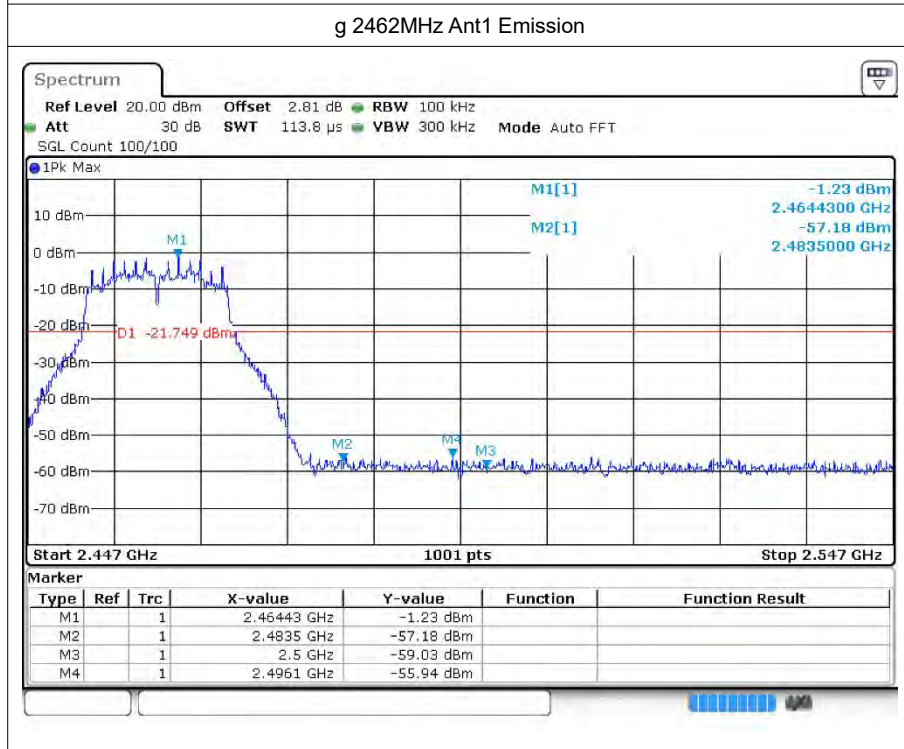
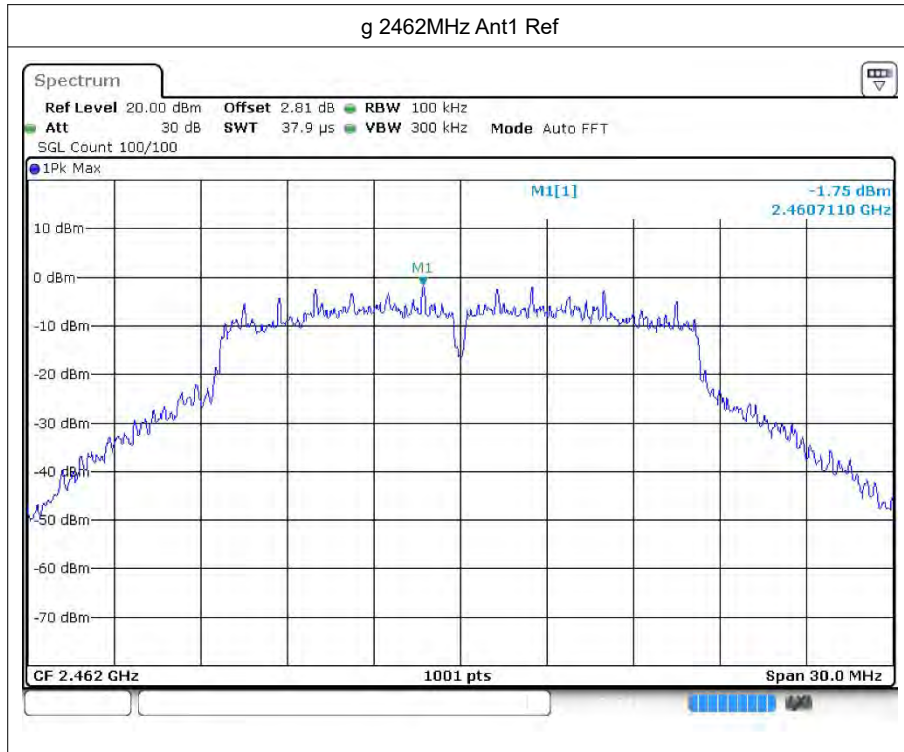
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.75	-20	-54.75
b	2462	Ant1	-55.48	-20	Pass
g	2412	Ant1	-53.99	-20	Pass
g	2462	Ant1	-54.19	-20	Pass
n20	2412	Ant1	-50.25	-20	Pass
n20	2462	Ant1	-49.34	-20	Pass
n40	2422	Ant1	-46.99	-20	Pass
n40	2452	Ant1	-45.74	-20	Pass
b	2412	Ant2	-55.09	-20	-55.09
b	2462	Ant2	-55.05	-20	Pass
g	2412	Ant2	-51.04	-20	Pass
g	2462	Ant2	-53.17	-20	Pass
n20	2412	Ant2	-49.62	-20	Pass
n20	2462	Ant2	-49.95	-20	Pass
n40	2422	Ant2	-46.66	-20	Pass
n40	2452	Ant2	-44.6	-20	Pass

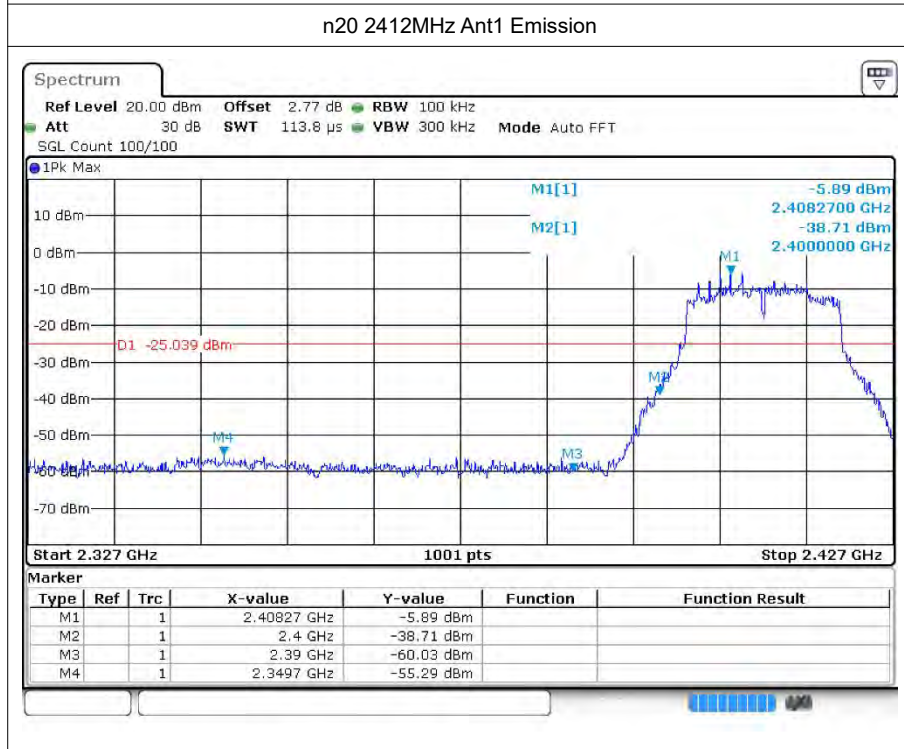
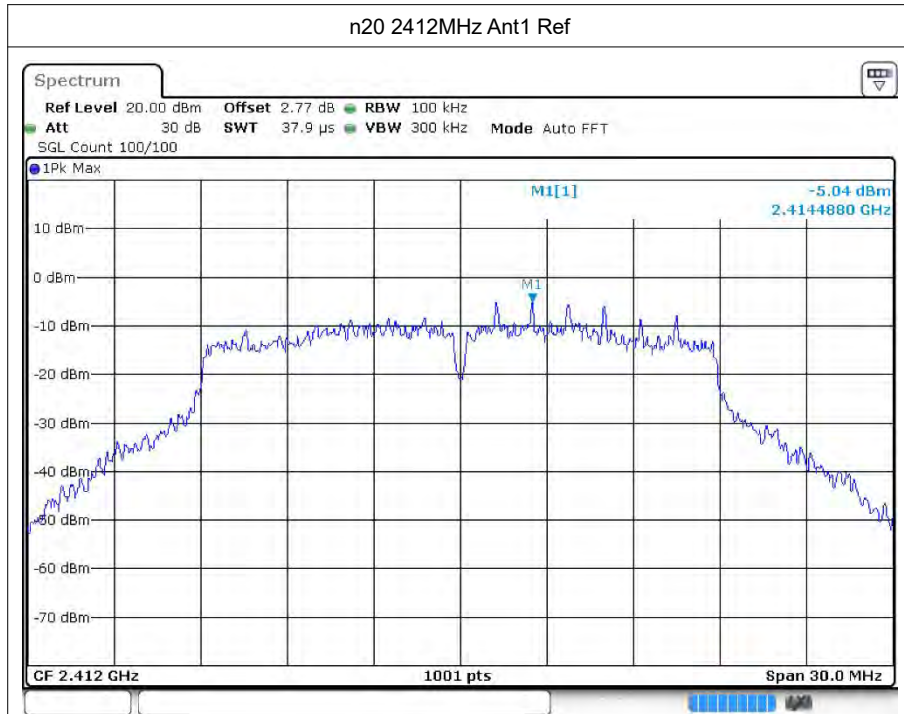
5.2 Test Graphs

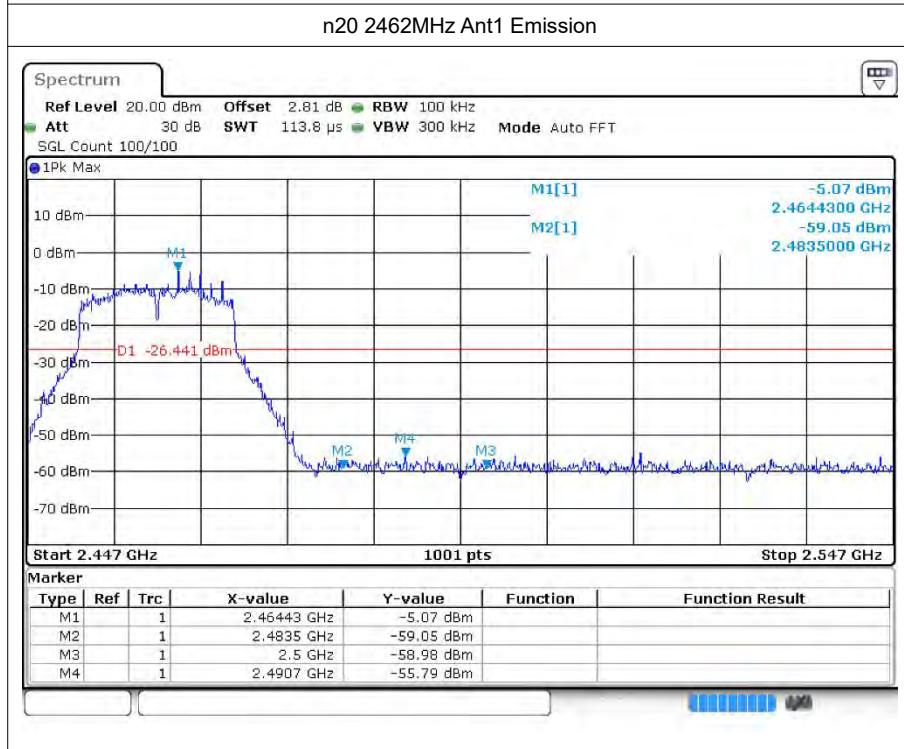
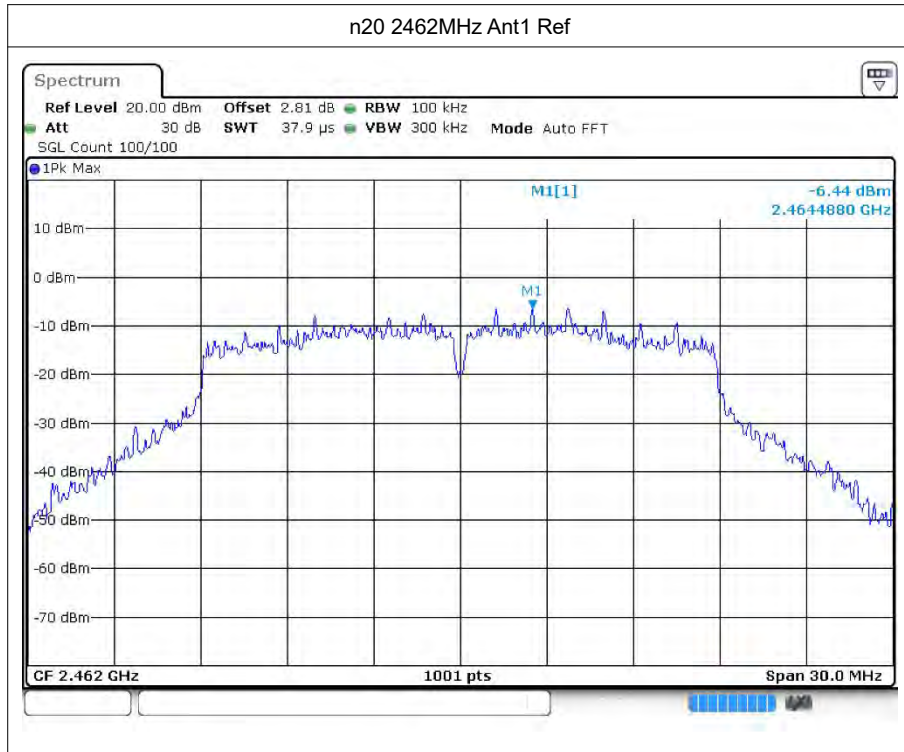


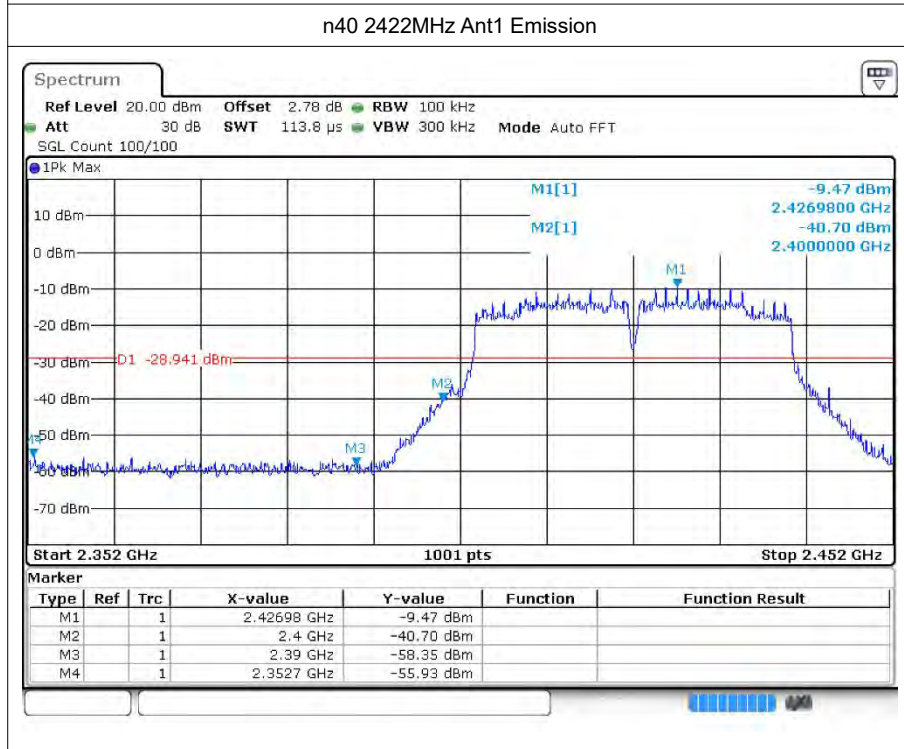
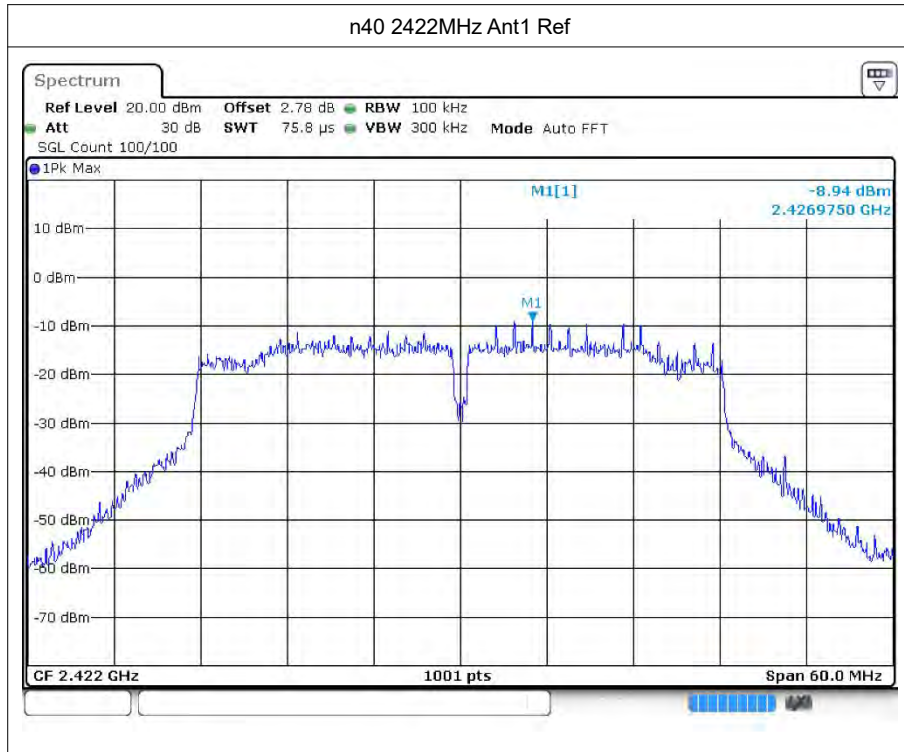


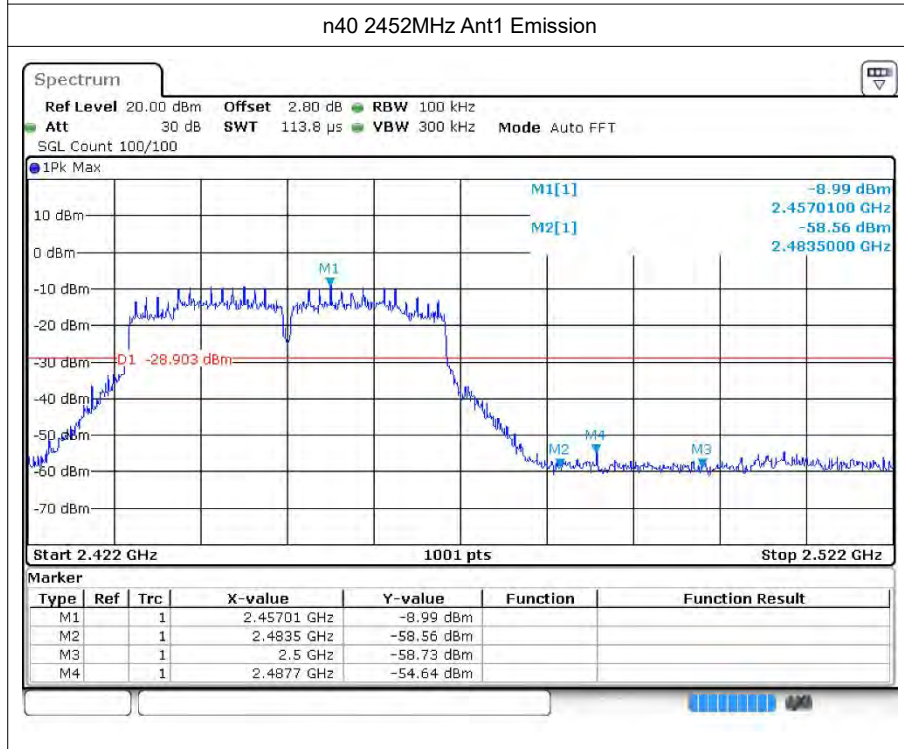
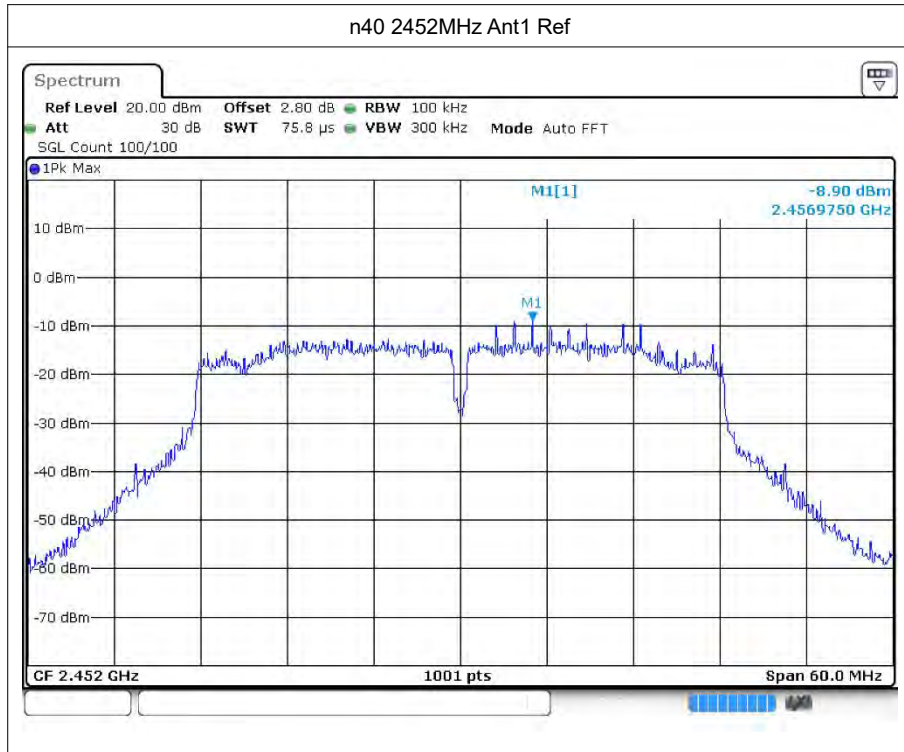


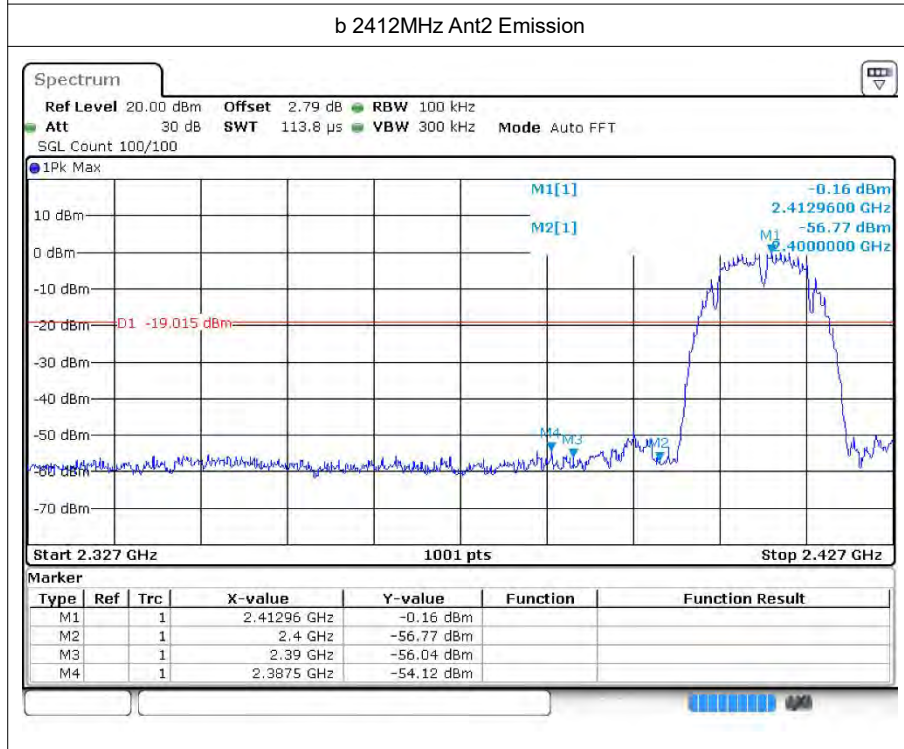
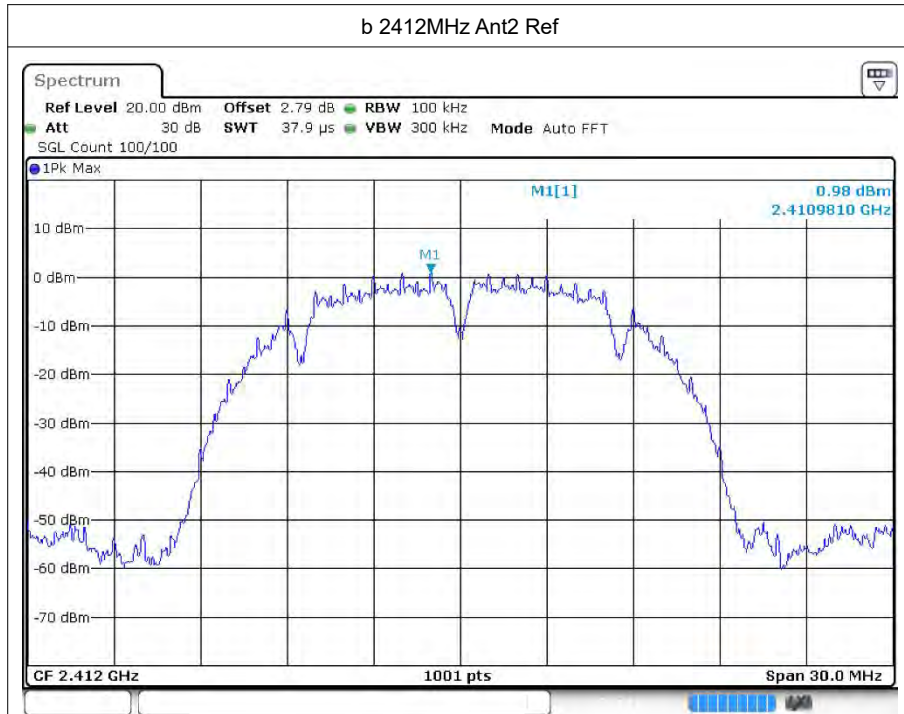


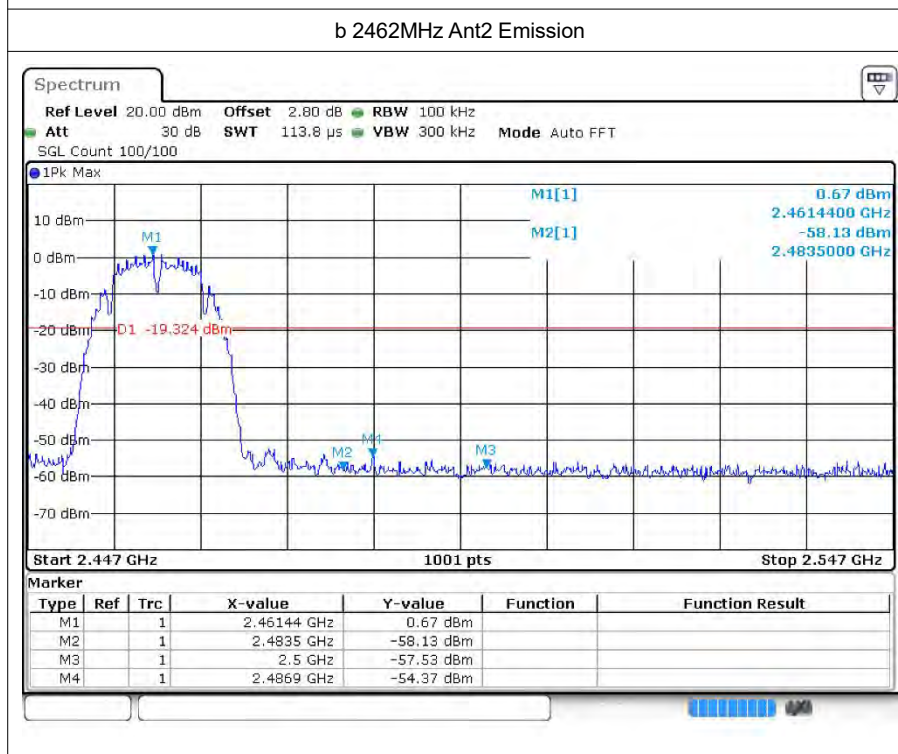
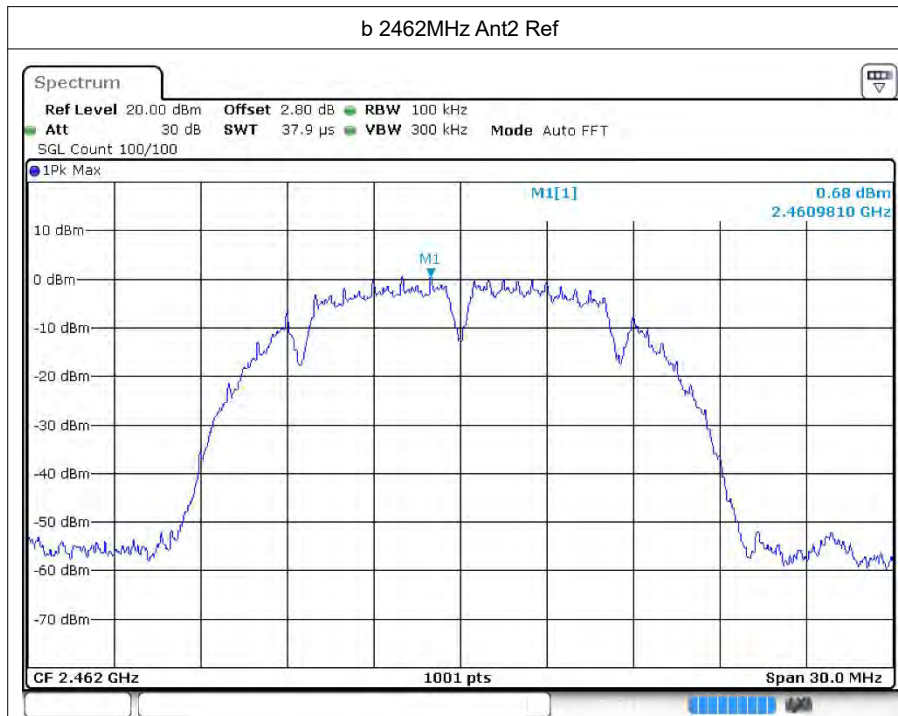


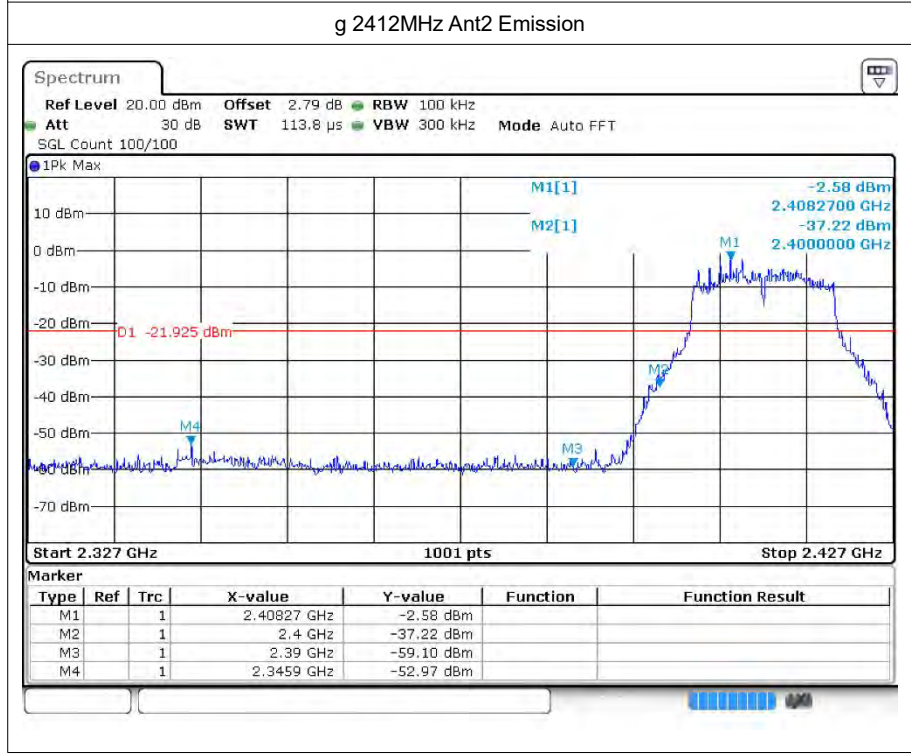
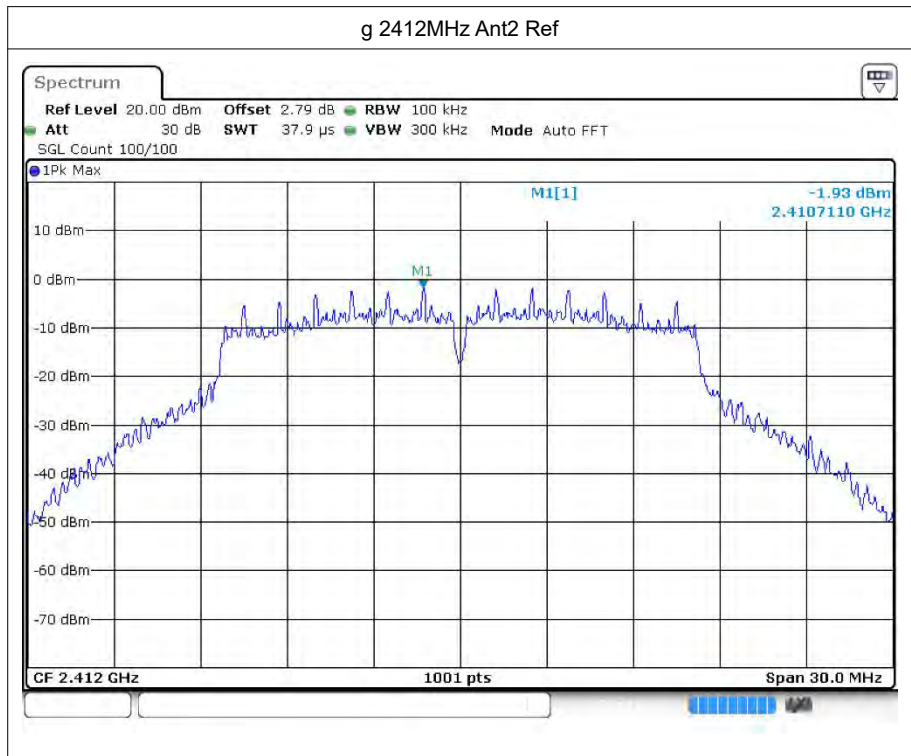


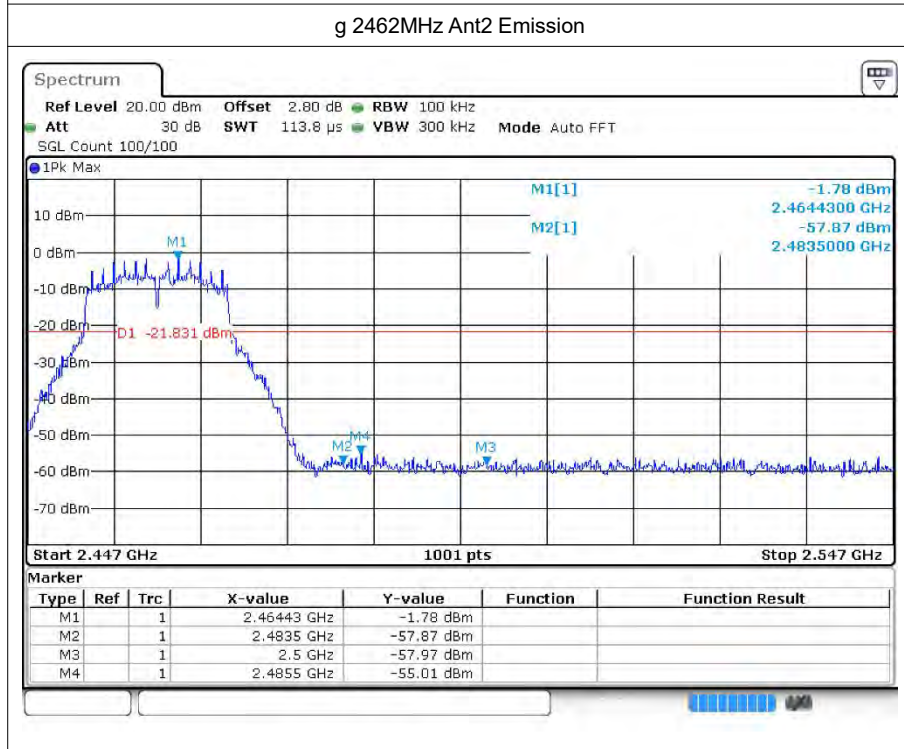
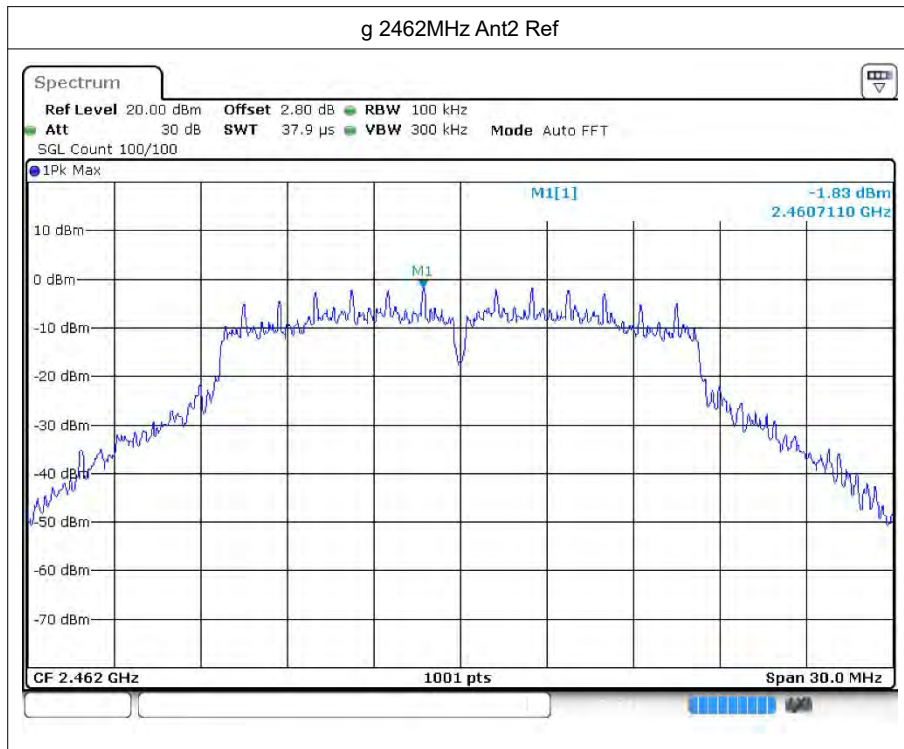


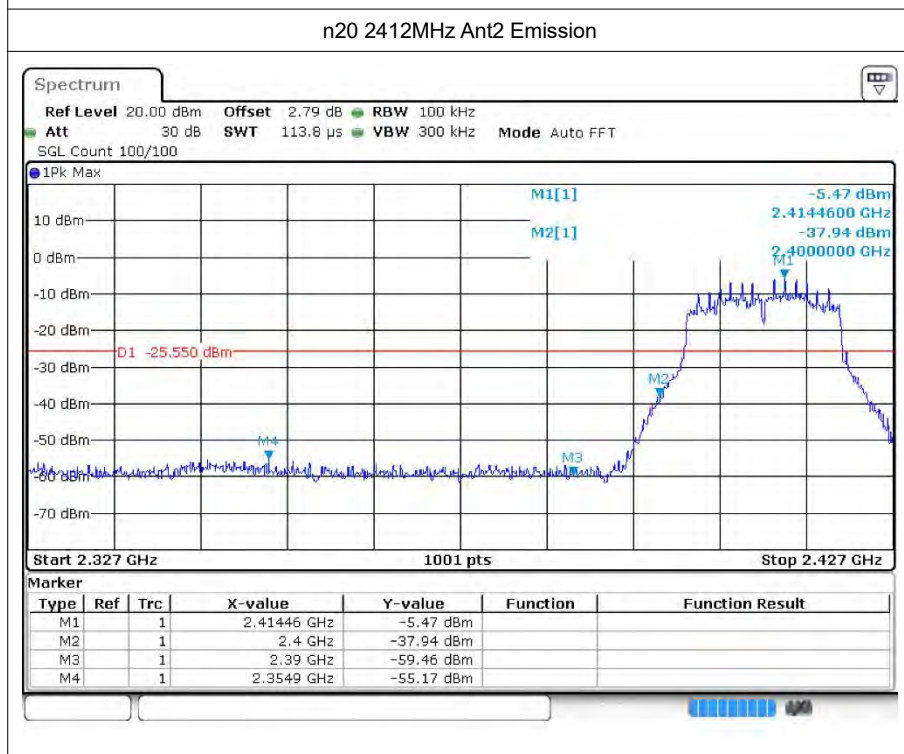
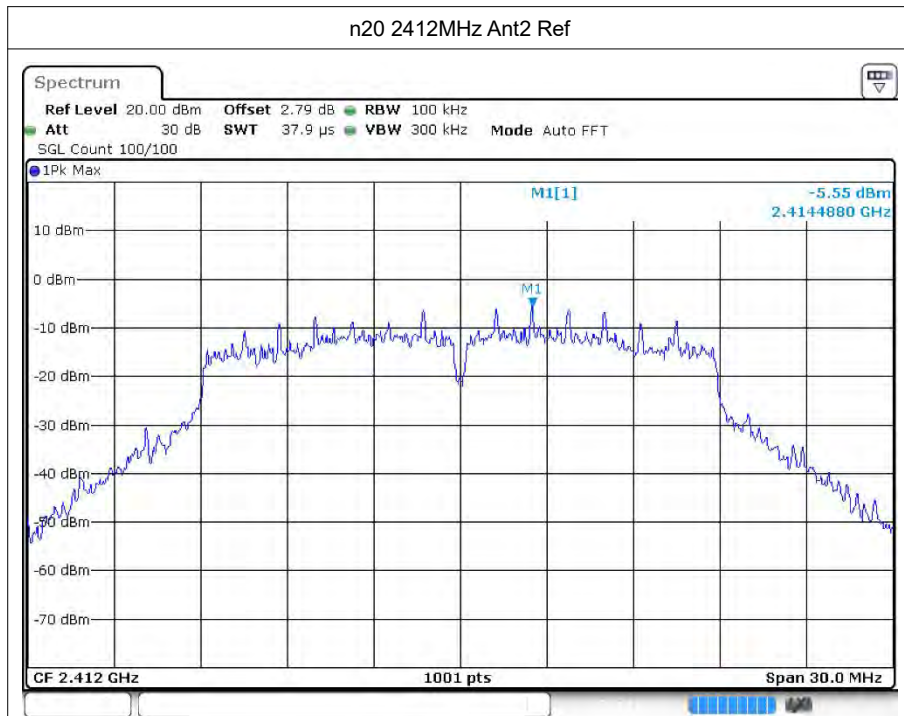


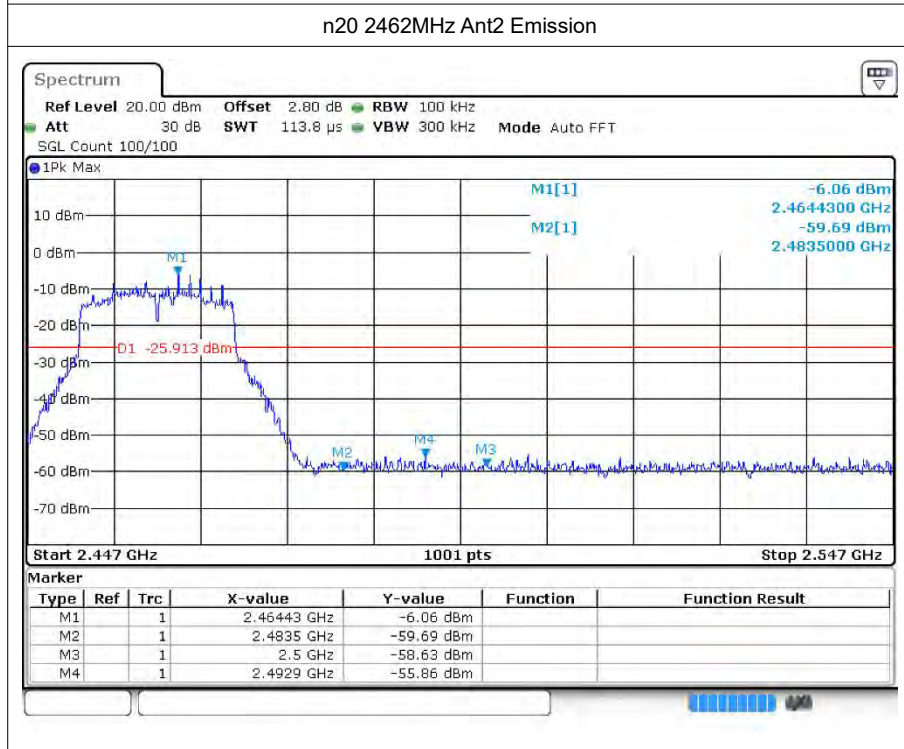
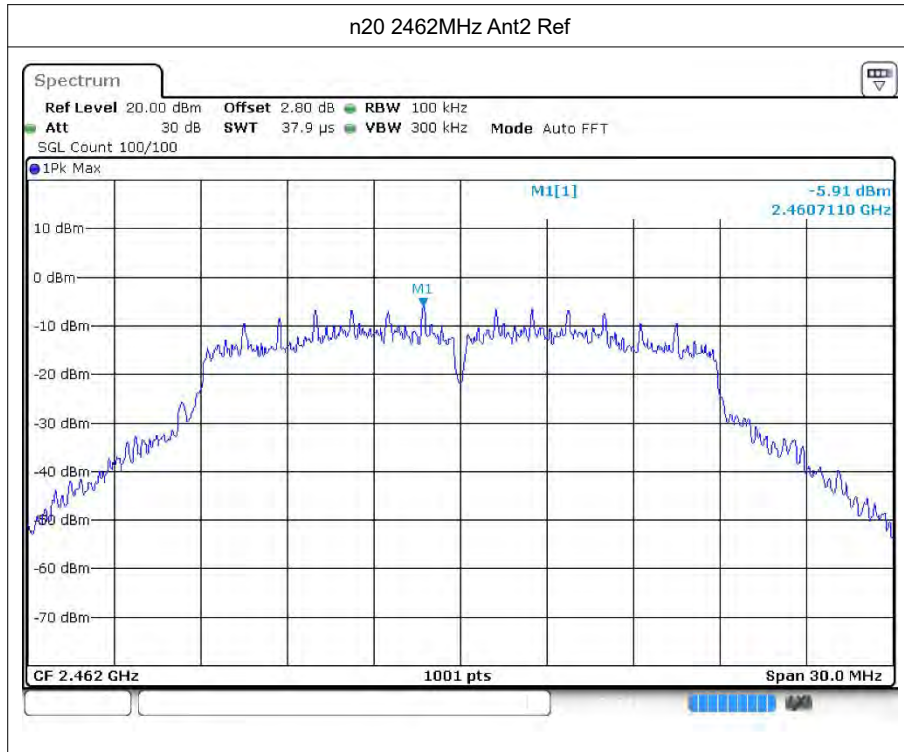


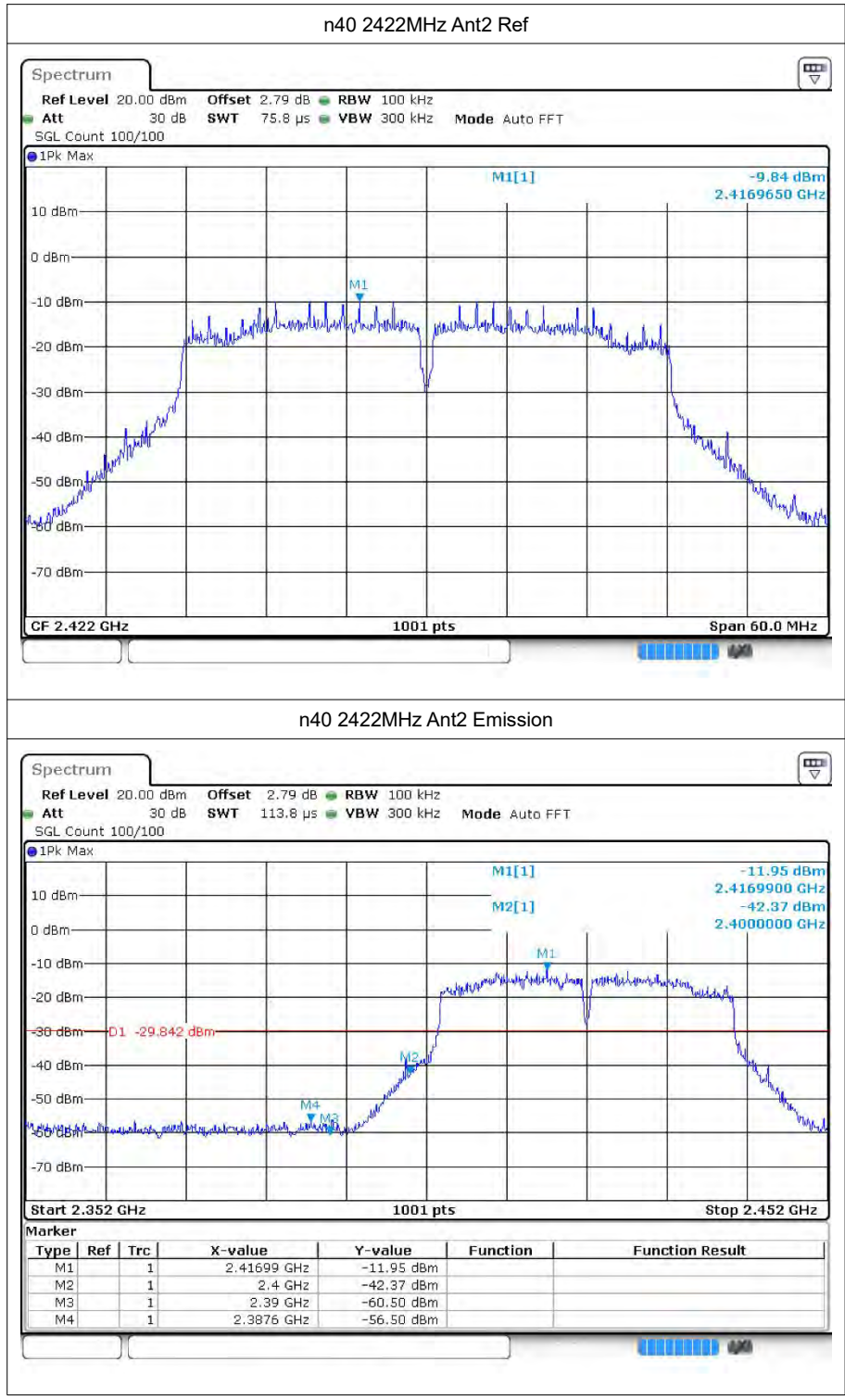


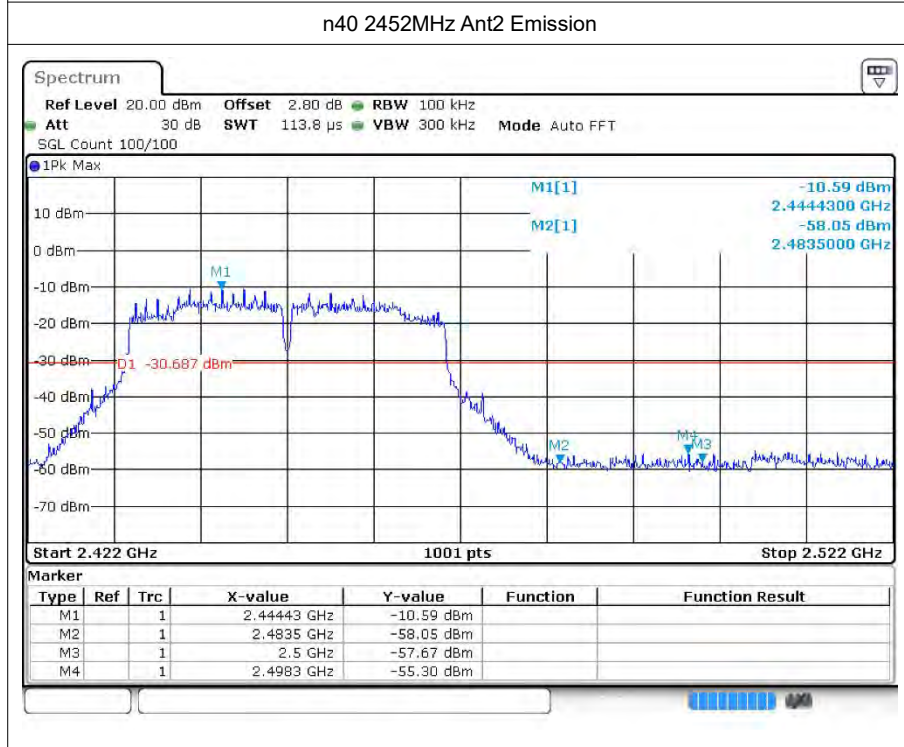
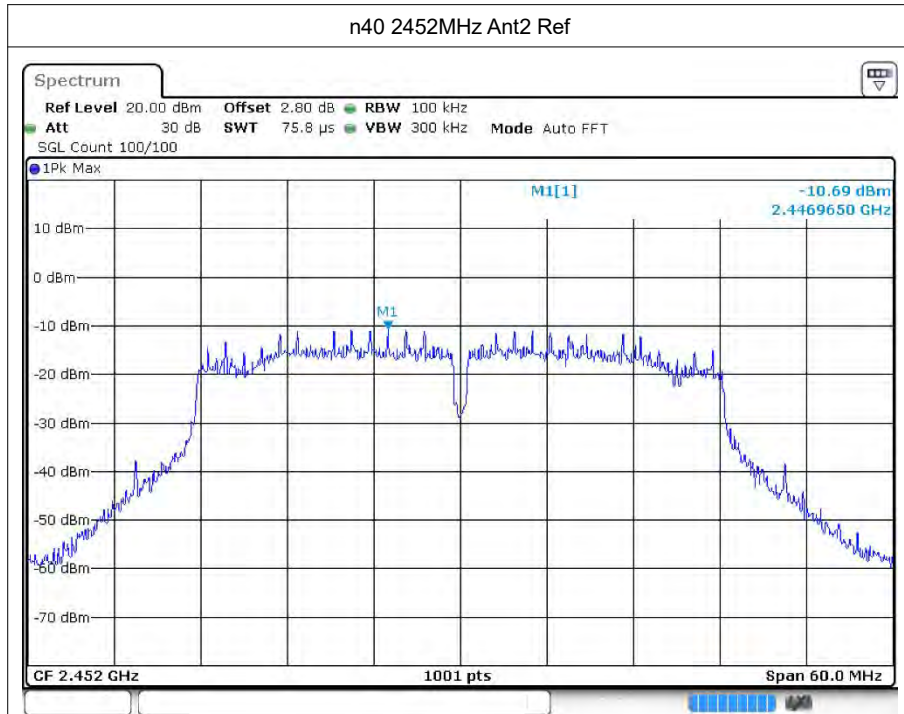














6 Conducted RF Spurious Emission

6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.33	-20	Pass
b	2437	Ant1	-46.7	-20	Pass
b	2462	Ant1	-46.5	-20	Pass
g	2412	Ant1	-43.91	-20	Pass
g	2437	Ant1	-44.31	-20	Pass
g	2462	Ant1	-44.18	-20	Pass
n20	2412	Ant1	-40.64	-20	Pass
n20	2437	Ant1	-39.53	-20	Pass
n20	2462	Ant1	-40.82	-20	Pass
n40	2422	Ant1	-36.54	-20	Pass
n40	2437	Ant1	-36.37	-20	Pass
n40	2452	Ant1	-36.02	-20	Pass
b	2412	Ant2	-46.88	-20	Pass
b	2437	Ant2	-46.95	-20	Pass
b	2462	Ant2	-48.05	-20	Pass
g	2412	Ant2	-43.63	-20	Pass
g	2437	Ant2	-43.84	-20	Pass
g	2462	Ant2	-44.2	-20	Pass
n20	2412	Ant2	-40.05	-20	Pass
n20	2437	Ant2	-39.41	-20	Pass
n20	2462	Ant2	-39.84	-20	Pass
n40	2422	Ant2	-35.93	-20	Pass
n40	2437	Ant2	-34.26	-20	Pass
n40	2452	Ant2	-35.71	-20	Pass

6.2 Test Graphs

