



Appendix C

RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: LCD projector

Trade Mark:  EXTRAVIS

Test Model: Y5

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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1 Duty Cycle

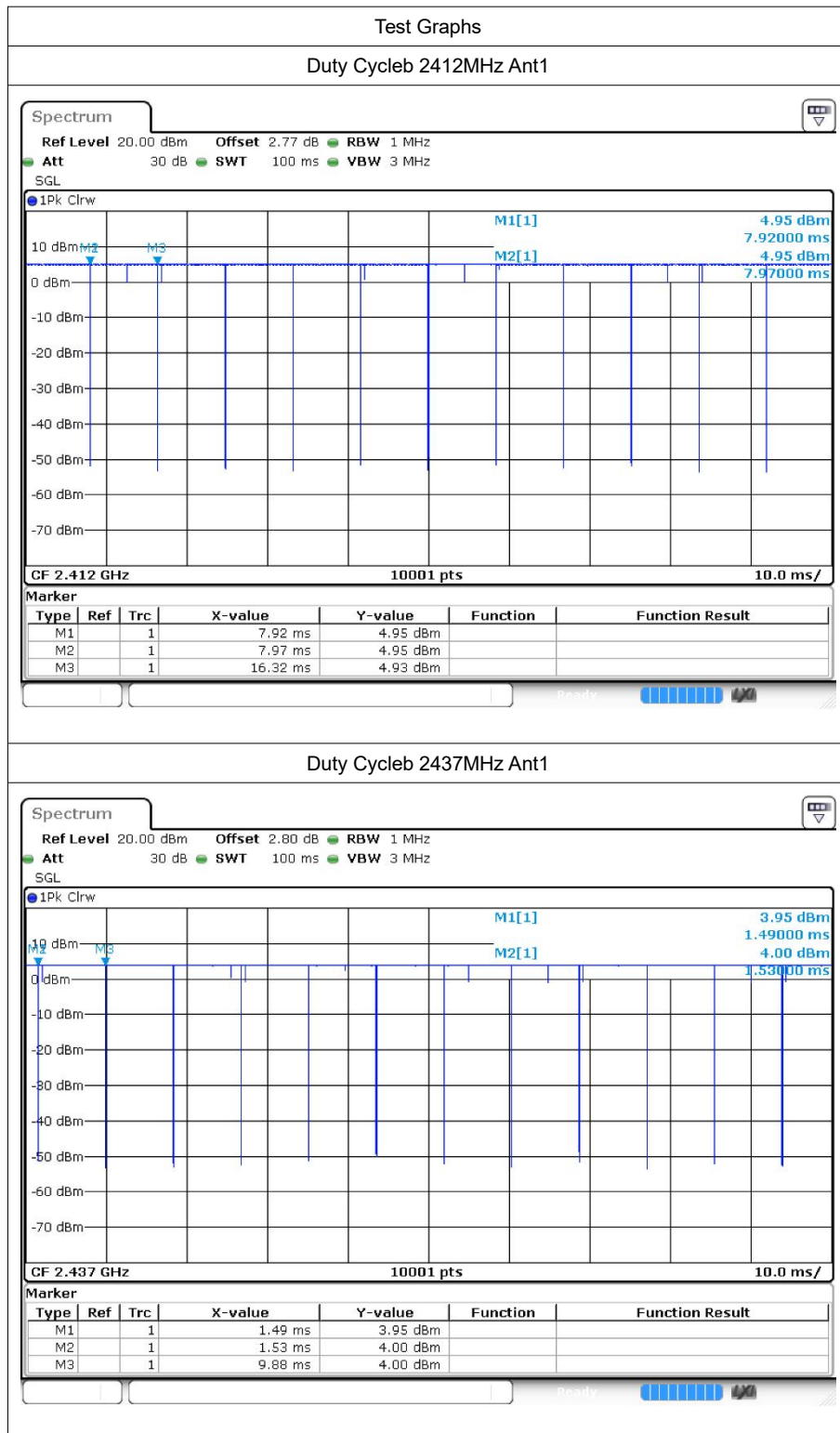
1.1 Test Result

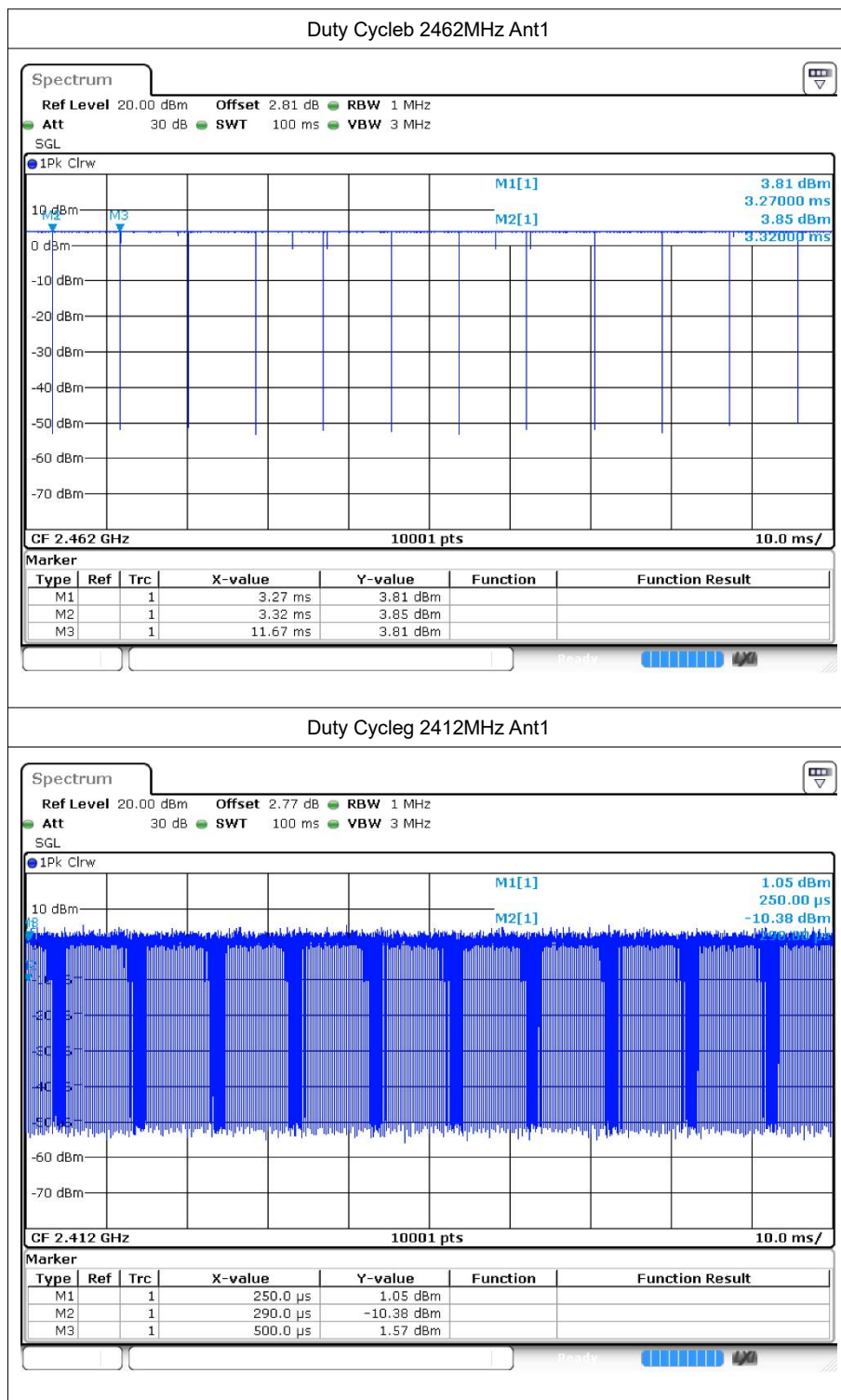
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.63	0.02	0.12
b	2437	Ant1	99.61	0.02	0.12
b	2462	Ant1	99.59	0.02	0.12
g	2412	Ant1	99.63	0.02	0.12
g	2437	Ant1	99.61	0.02	0.12
g	2462	Ant1	99.59	0.02	0.12
n20	2412	Ant1	92.92	0.32	2.22
n20	2437	Ant1	92.92	0.32	2.22
n20	2462	Ant1	92.98	0.32	2.22
n40	2422	Ant1	92.88	0.32	2.27
n40	2437	Ant1	92.91	0.32	2.27
n40	2452	Ant1	92.92	0.32	2.22
ax20	2412	Ant1	87.03	0.6	4.35
ax20	2437	Ant1	86.95	0.61	4.55
ax20	2462	Ant1	86.92	0.61	4.35
ax40	2422	Ant1	87.69	0.57	4.17
ax40	2437	Ant1	87.72	0.57	4.17
ax40	2452	Ant1	87.7	0.57	4.17
b	2412	Ant2	99.6	0.02	0.12
b	2437	Ant2	99.6	0.02	0.12
b	2462	Ant2	99.6	0.02	0.12
g	2412	Ant2	99.6	0.02	0.12
g	2437	Ant2	99.6	0.02	0.12
g	2462	Ant2	99.6	0.02	0.12
n20	2412	Ant2	92.99	0.32	2.22
n20	2437	Ant2	92.88	0.32	2.22
n20	2462	Ant2	92.9	0.32	2.22
n40	2422	Ant2	92.92	0.32	2.27
n40	2437	Ant2	92.92	0.32	2.22
n40	2452	Ant2	92.94	0.32	2.22
ax20	2412	Ant2	87.09	0.6	4.35
ax20	2437	Ant2	87.04	0.6	4.35
ax20	2462	Ant2	87.05	0.6	4.55
ax40	2422	Ant2	87.64	0.57	4.17
ax40	2437	Ant2	87.55	0.58	4.17
ax40	2452	Ant2	87.49	0.58	4.17



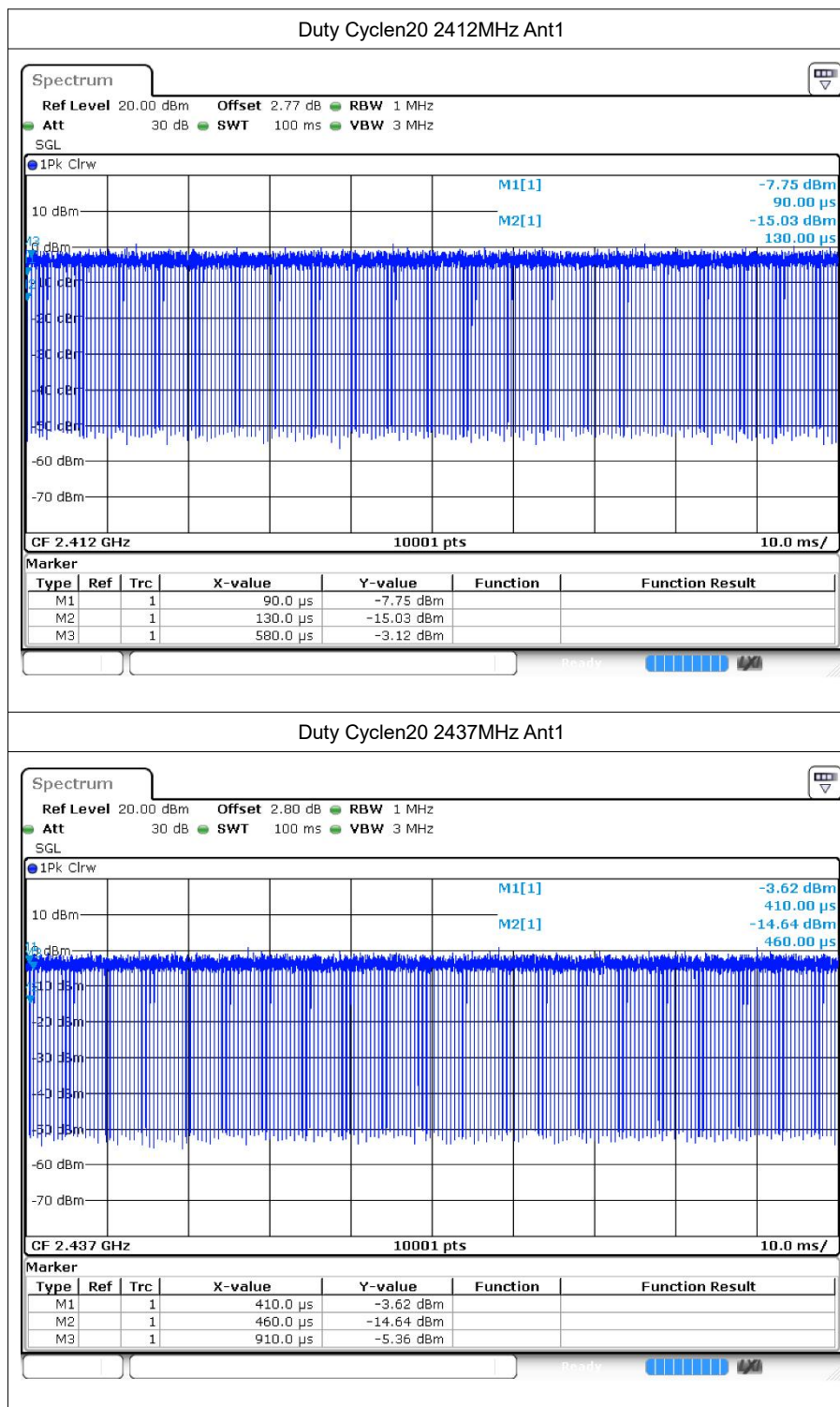


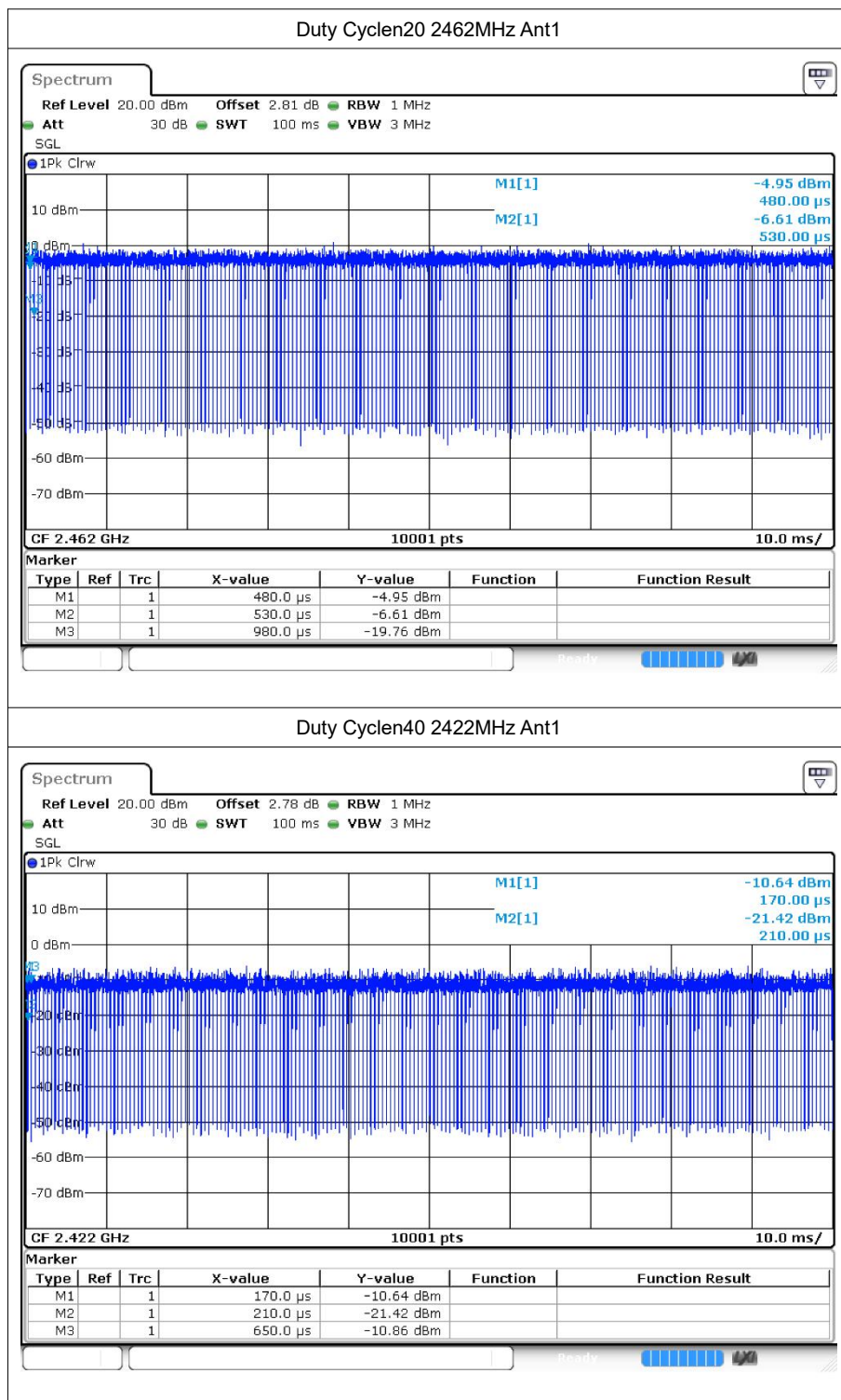
1.2 Test Graphs

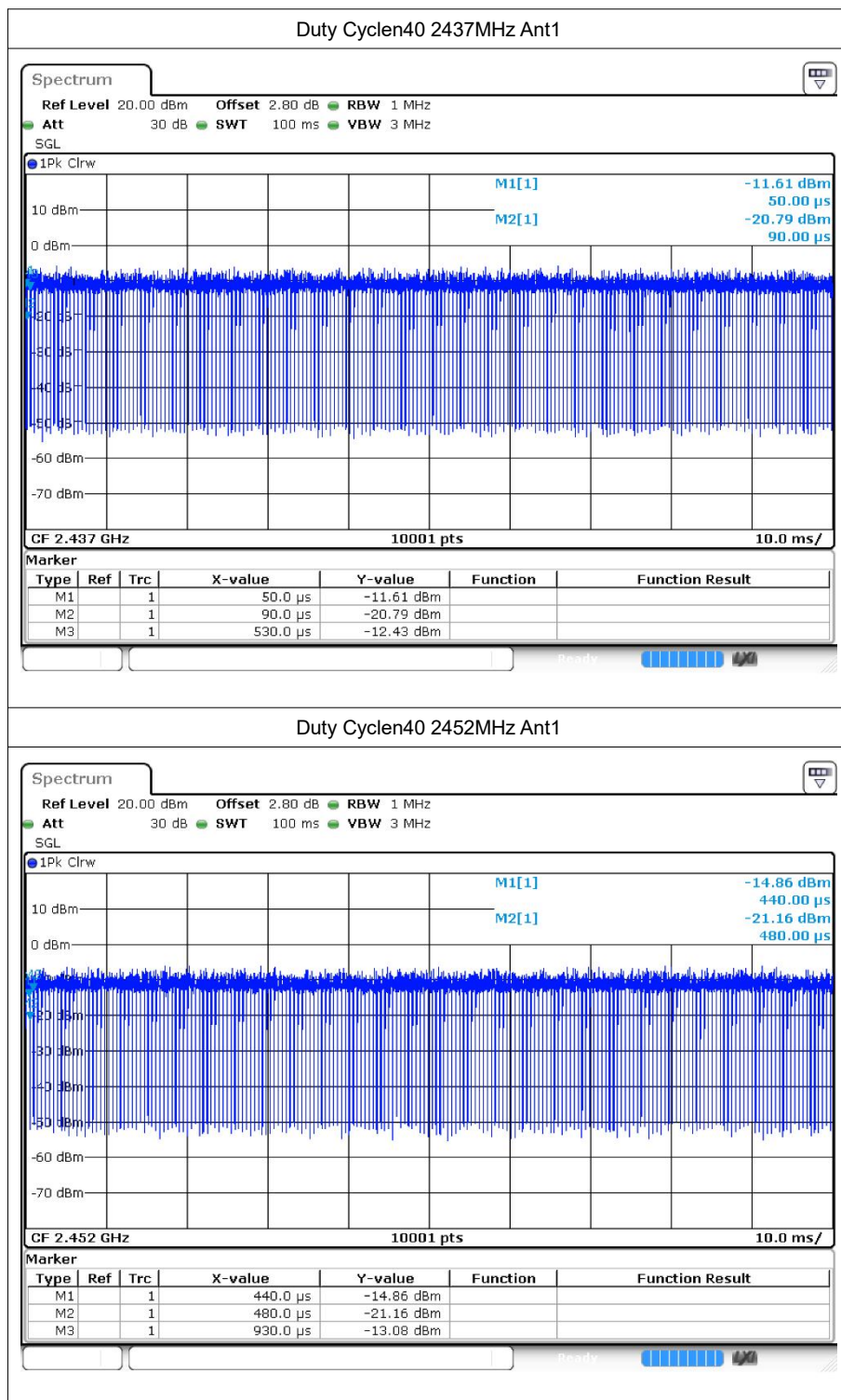






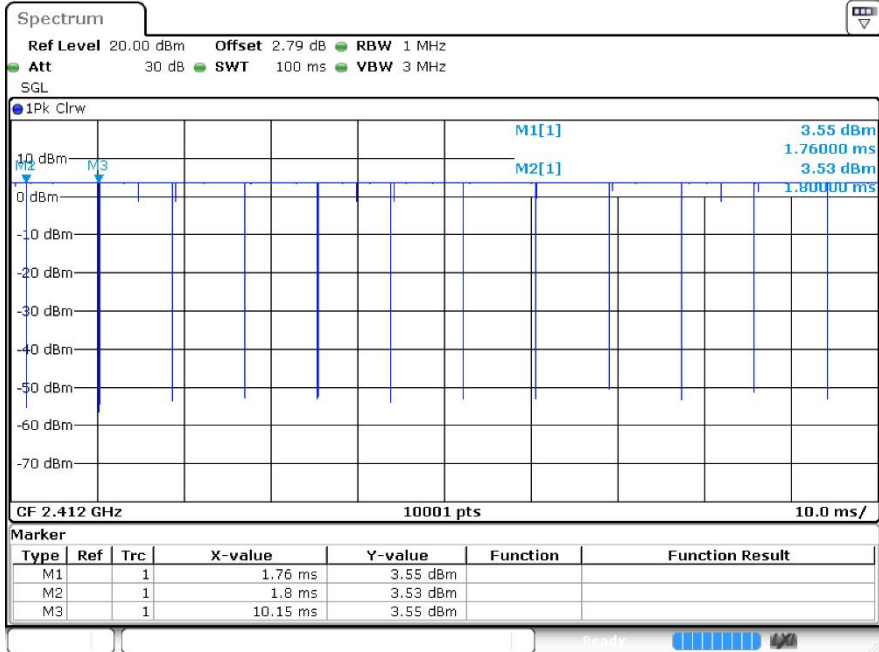




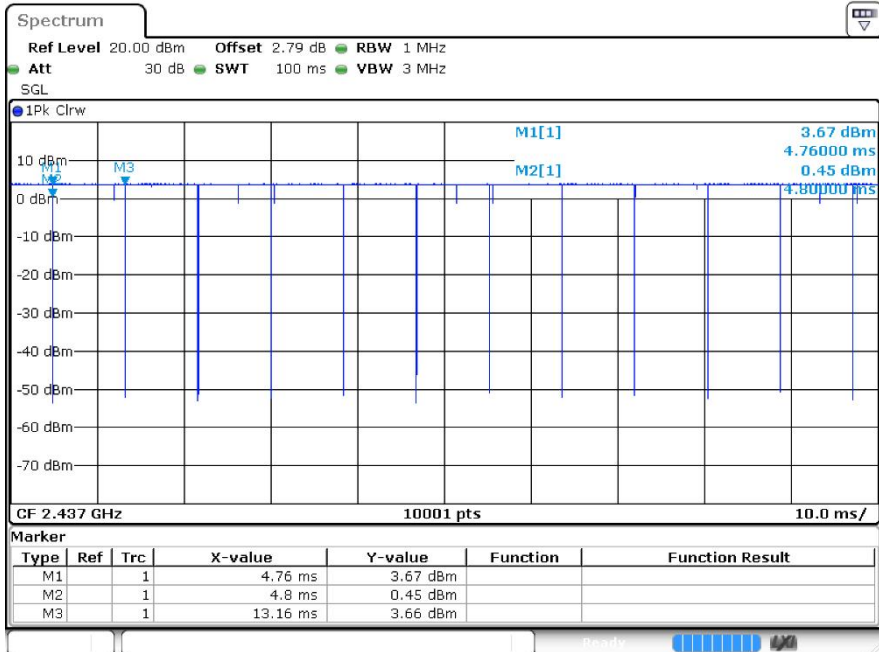


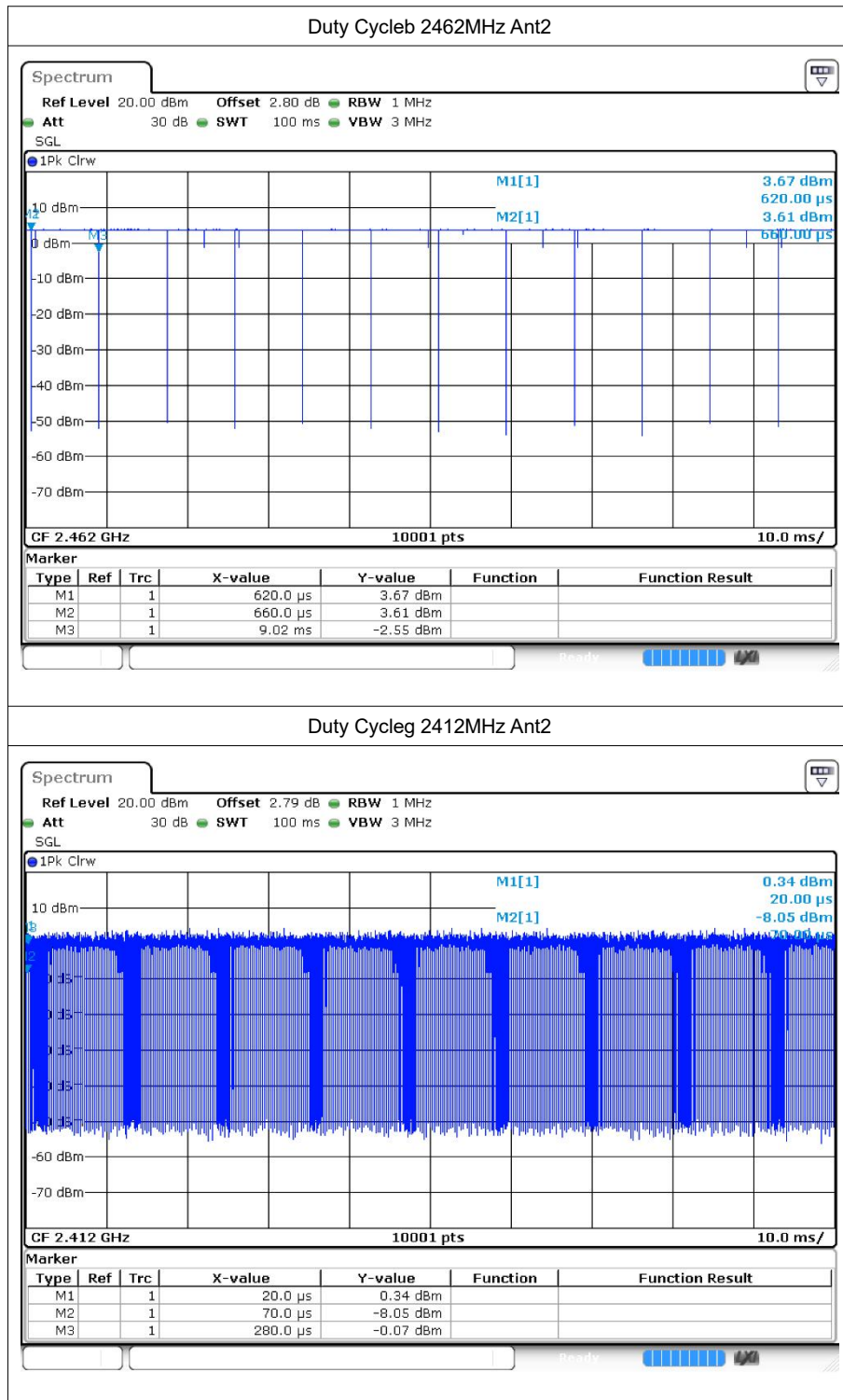
Test Graphs

Duty Cycle 2412MHz Ant2

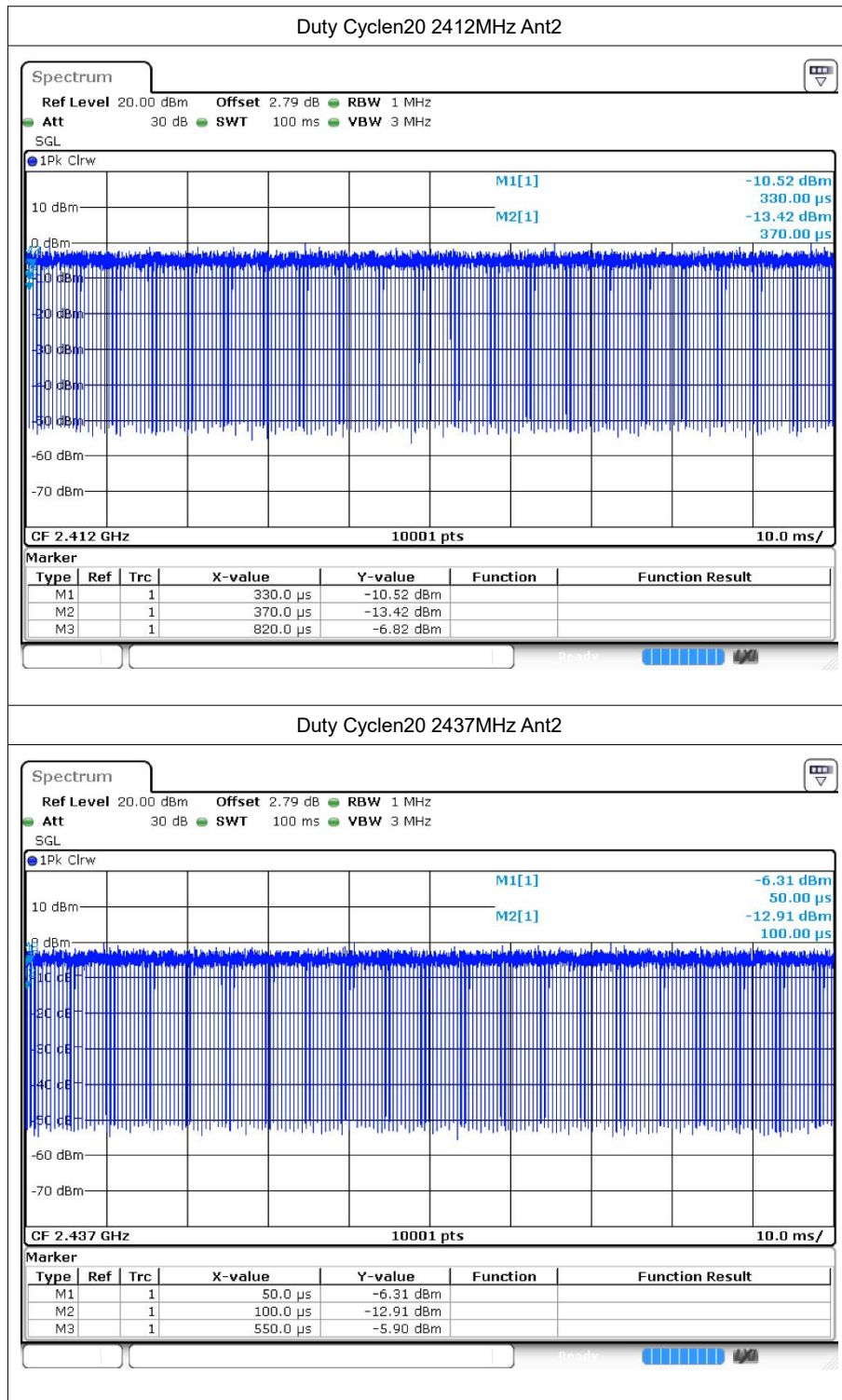


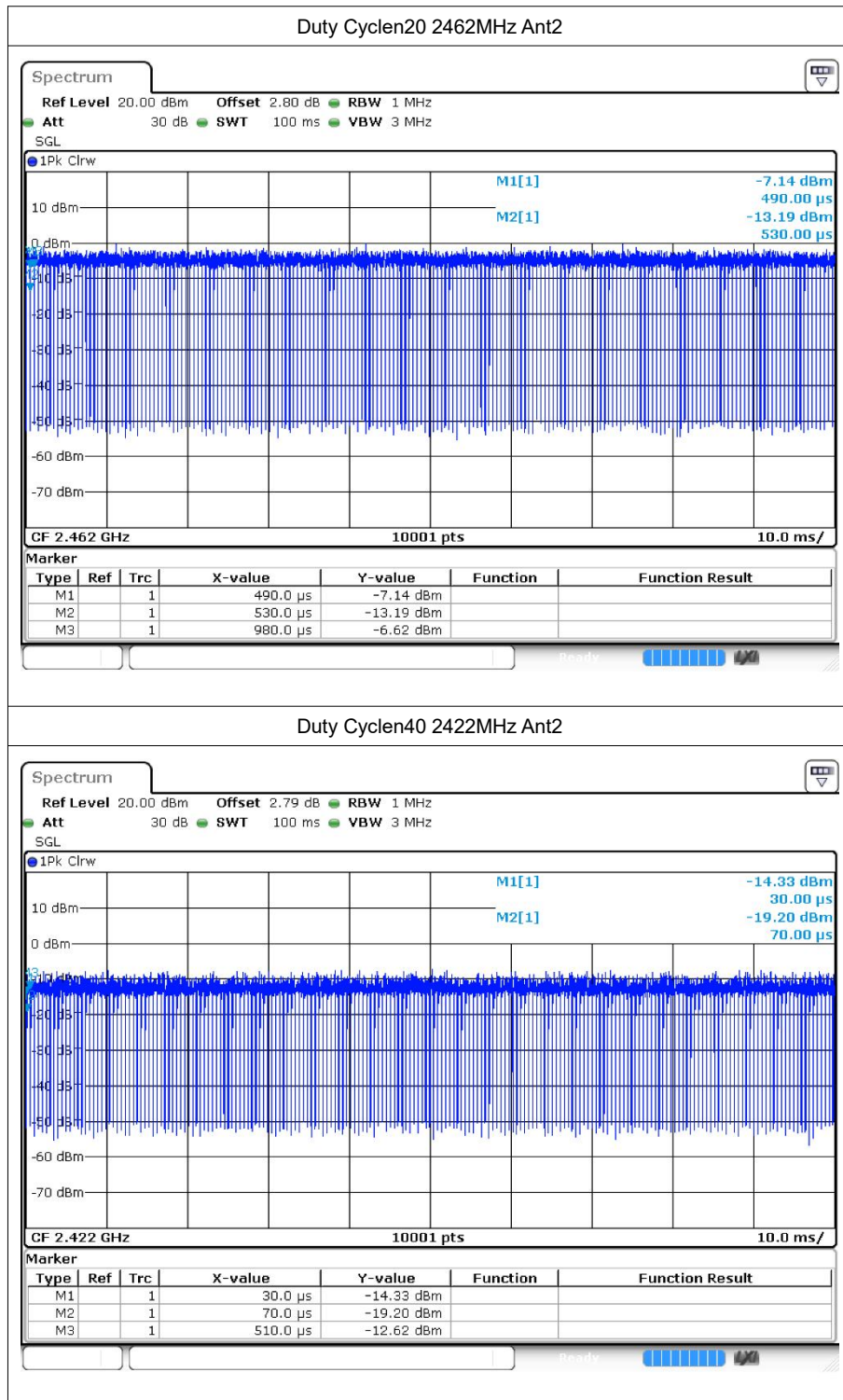
Duty Cycle 2437MHz Ant2

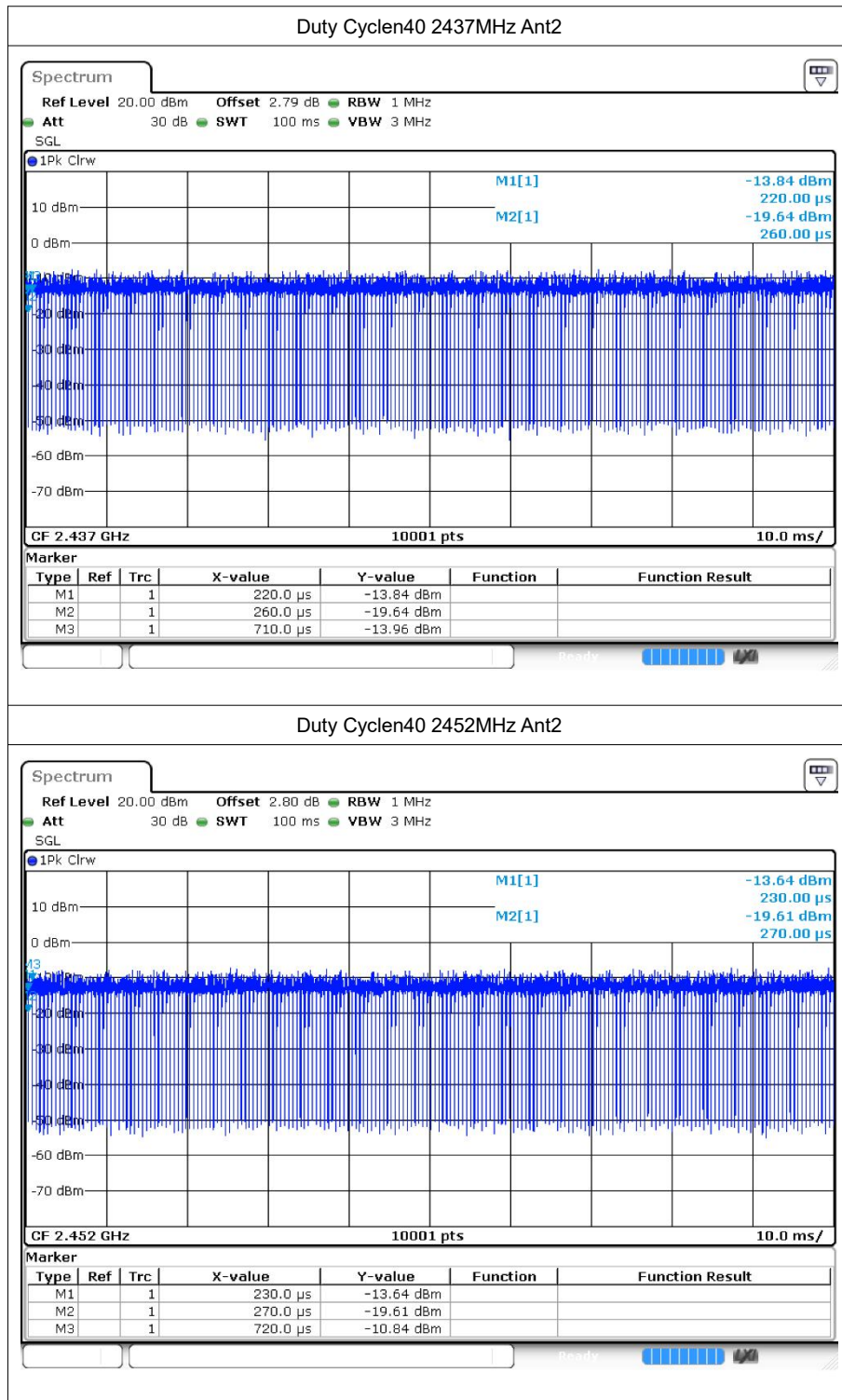


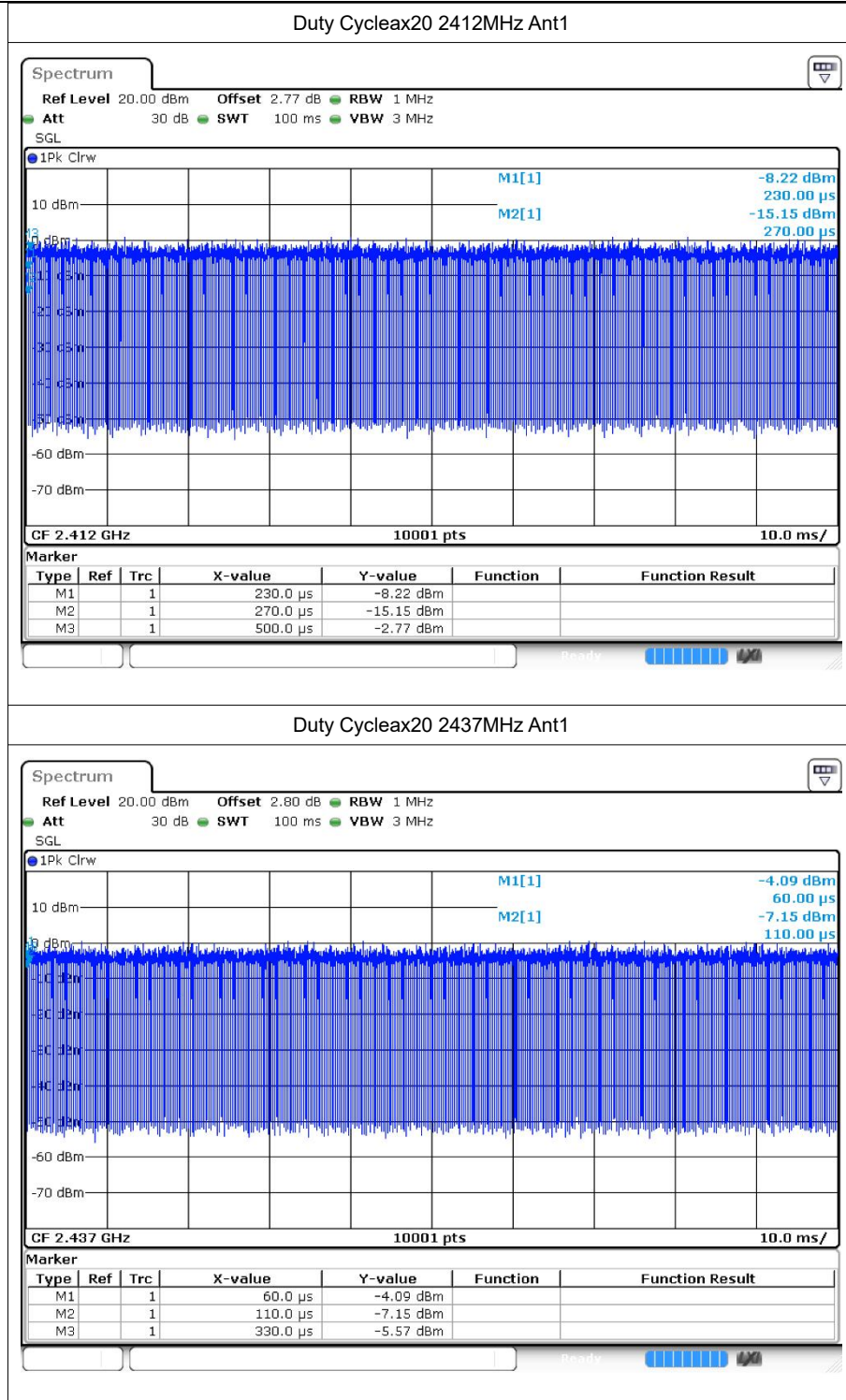


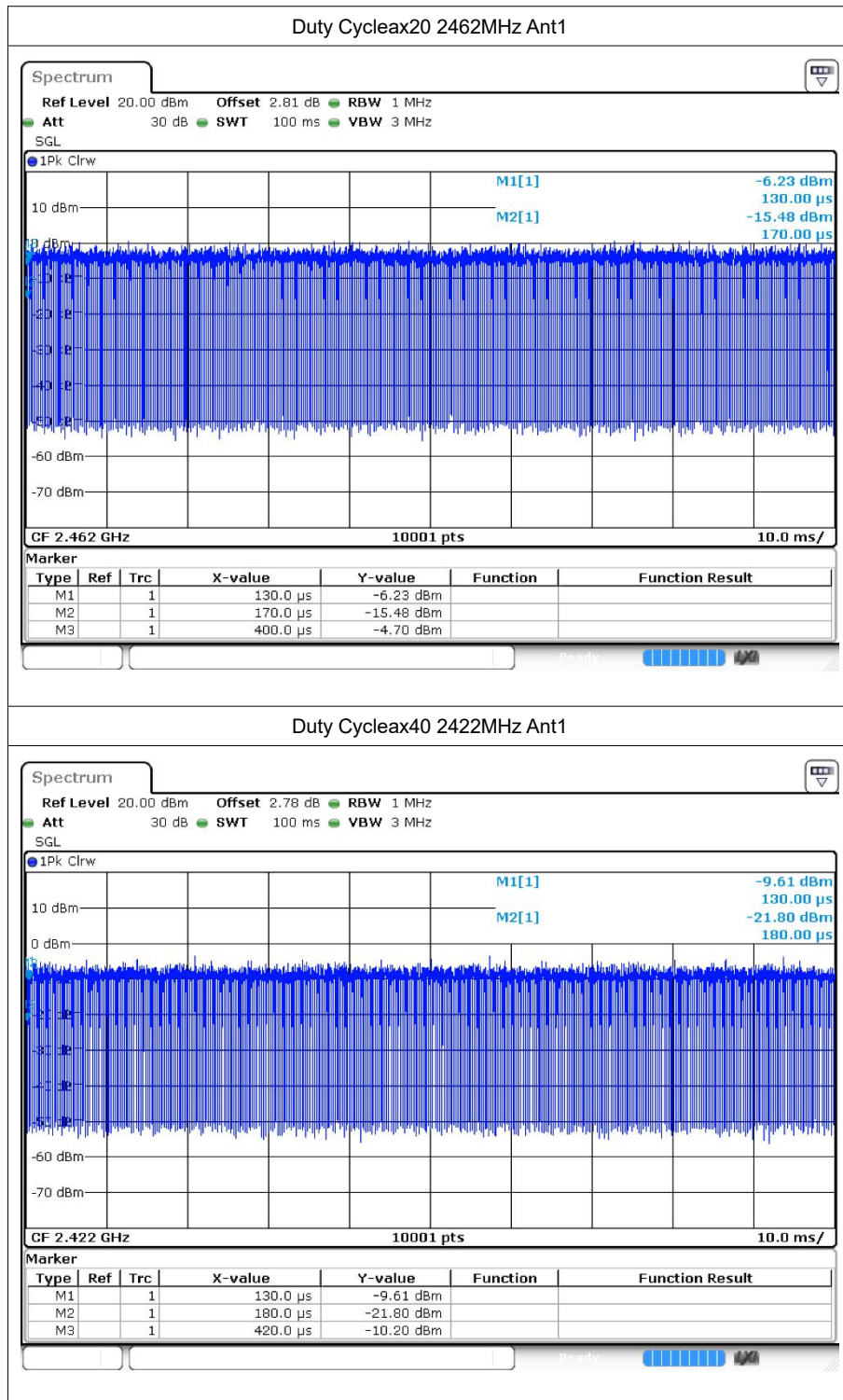


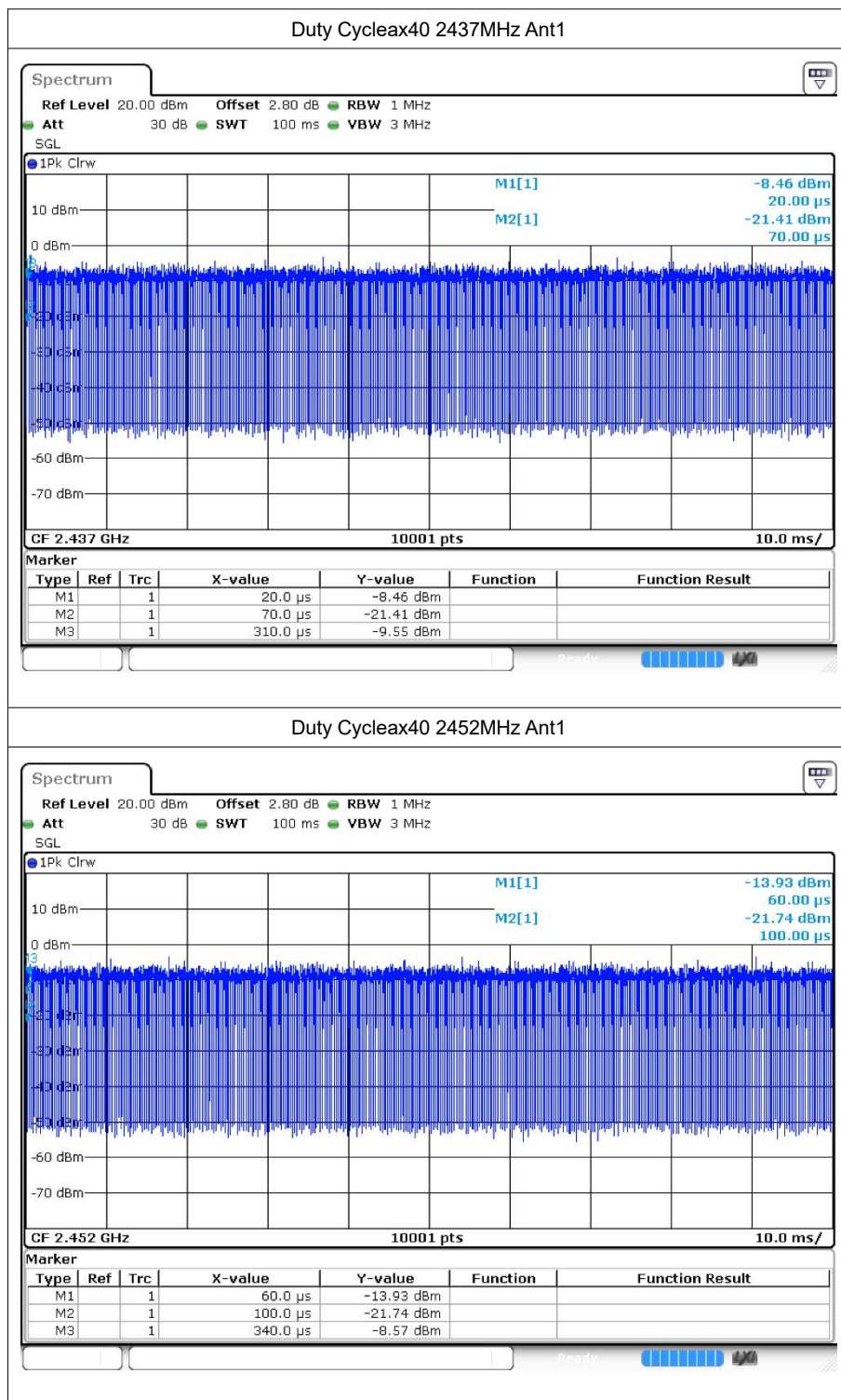


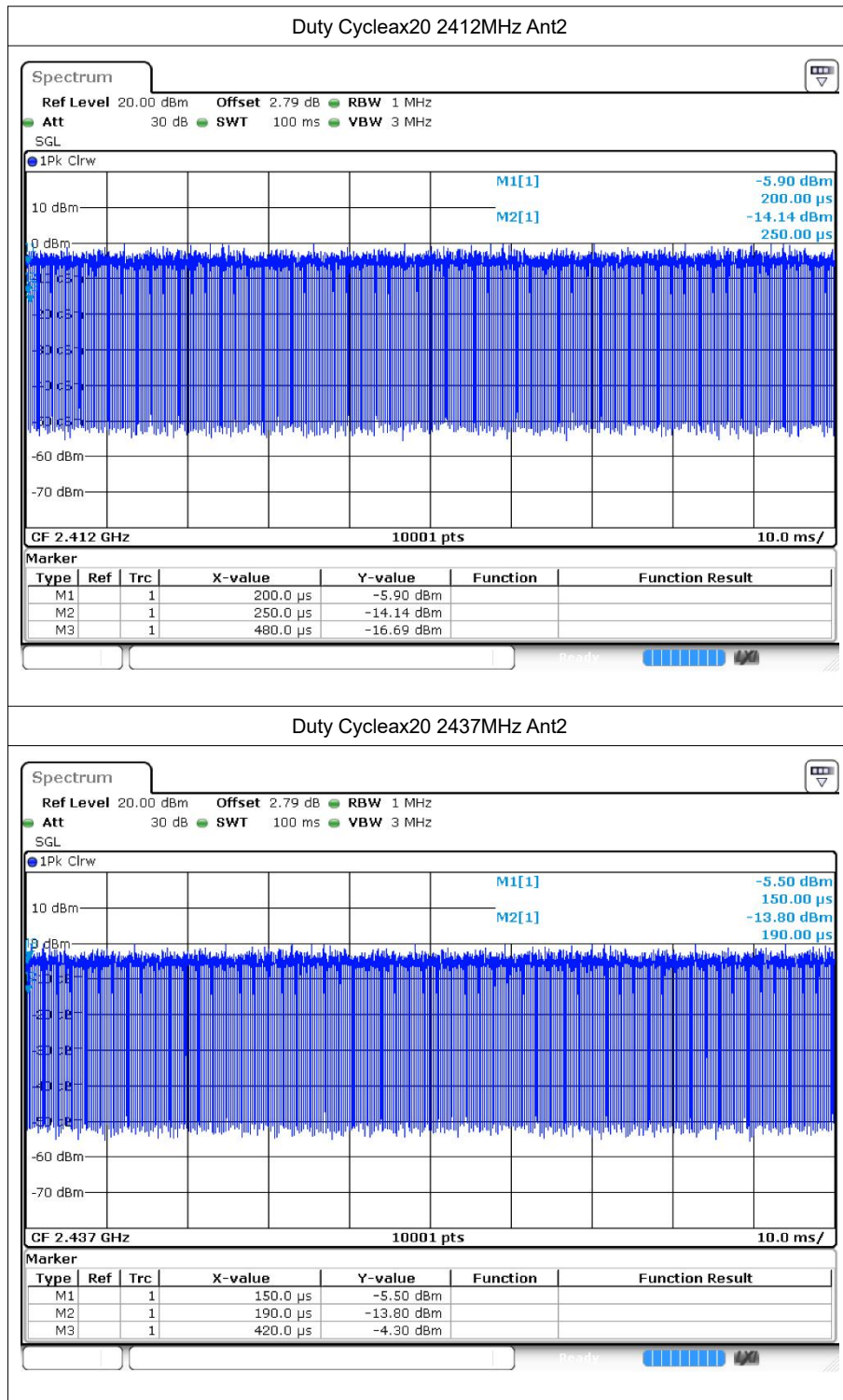


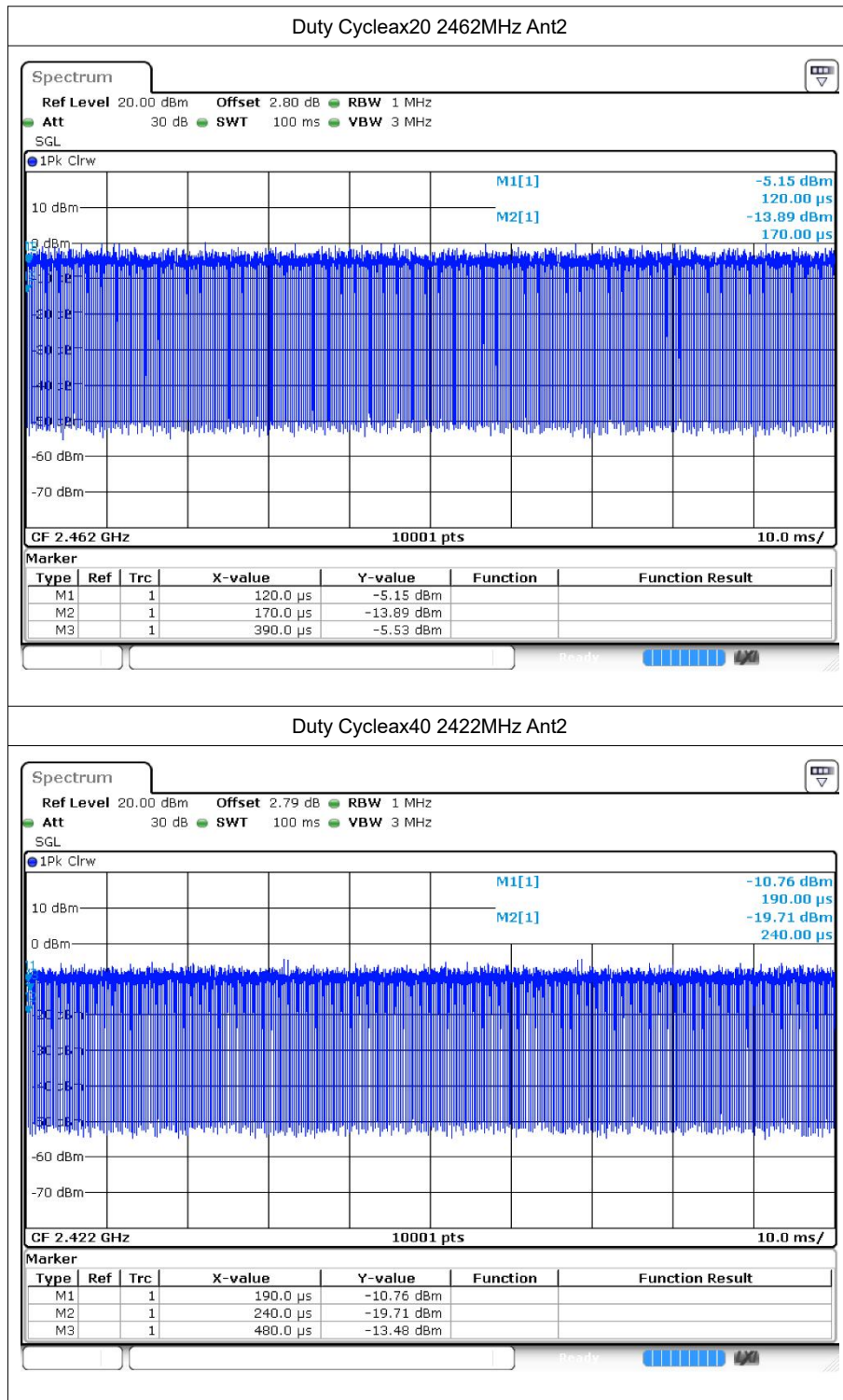


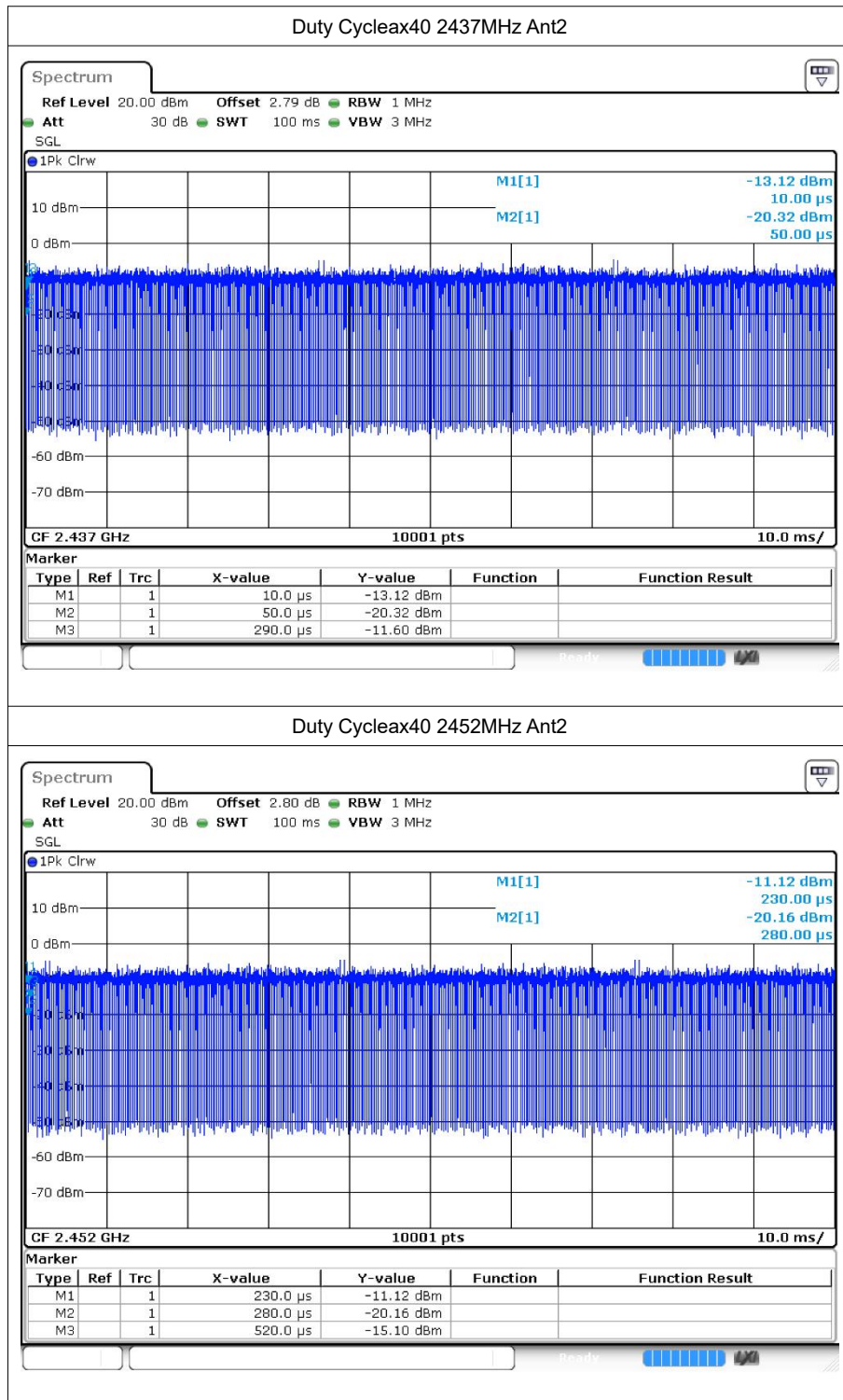












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.36	30	Pass
b	2437	Ant1	14.25	30	Pass
b	2462	Ant1	14.28	30	Pass
b	2412	Ant2	14.13	30	Pass
b	2437	Ant2	14.17	30	Pass
b	2462	Ant2	13.27	30	Pass
g	2412	Ant1	14.54	30	Pass
g	2437	Ant1	14.37	30	Pass
g	2462	Ant1	14.33	30	Pass
g	2412	Ant2	13.68	30	Pass
g	2437	Ant2	13.94	30	Pass
g	2462	Ant2	13.77	30	Pass
n20	2412	Ant1	10.94	30	Pass
n20	2437	Ant1	10.89	30	Pass
n20	2462	Ant1	10.73	30	Pass
n20	2412	Ant2	9.83	30	Pass
n20	2437	Ant2	9.83	30	Pass
n20	2462	Ant2	9.96	30	Pass
n20	2412	Sum	13.43	30	Pass
n20	2437	Sum	13.4	30	Pass
n20	2462	Sum	13.37	30	Pass
n40	2422	Ant1	10.34	30	Pass
n40	2437	Ant1	10.33	30	Pass
n40	2452	Ant1	10.23	30	Pass
n40	2422	Ant2	9.07	30	Pass
n40	2437	Ant2	9.21	30	Pass
n40	2452	Ant2	9.21	30	Pass
n40	2422	Sum	12.76	30	Pass
n40	2437	Sum	12.82	30	Pass
n40	2452	Sum	12.76	30	Pass
ax20	2412	Ant1	10.87	30	Pass
ax20	2437	Ant1	10.8	30	Pass



ax20	2462	Ant1	10.75	30	Pass
ax20	2412	Ant2	9.63	30	Pass
ax20	2437	Ant2	9.83	30	Pass
ax20	2462	Ant2	9.77	30	Pass
ax20	2412	Sum	13.39	30	Pass
ax20	2437	Sum	13.33	30	Pass
ax20	2462	Sum	13.44	30	Pass
ax40	2422	Ant1	10.31	30	Pass
ax40	2437	Ant1	10.22	30	Pass
ax40	2452	Ant1	10.2	30	Pass
ax40	2422	Ant2	9.2	30	Pass
ax40	2437	Ant2	9.21	30	Pass
ax40	2452	Ant2	9.12	30	Pass
ax40	2422	Sum	12.8	30	Pass
ax40	2437	Sum	12.75	30	Pass
ax40	2452	Sum	12.7	30	Pass

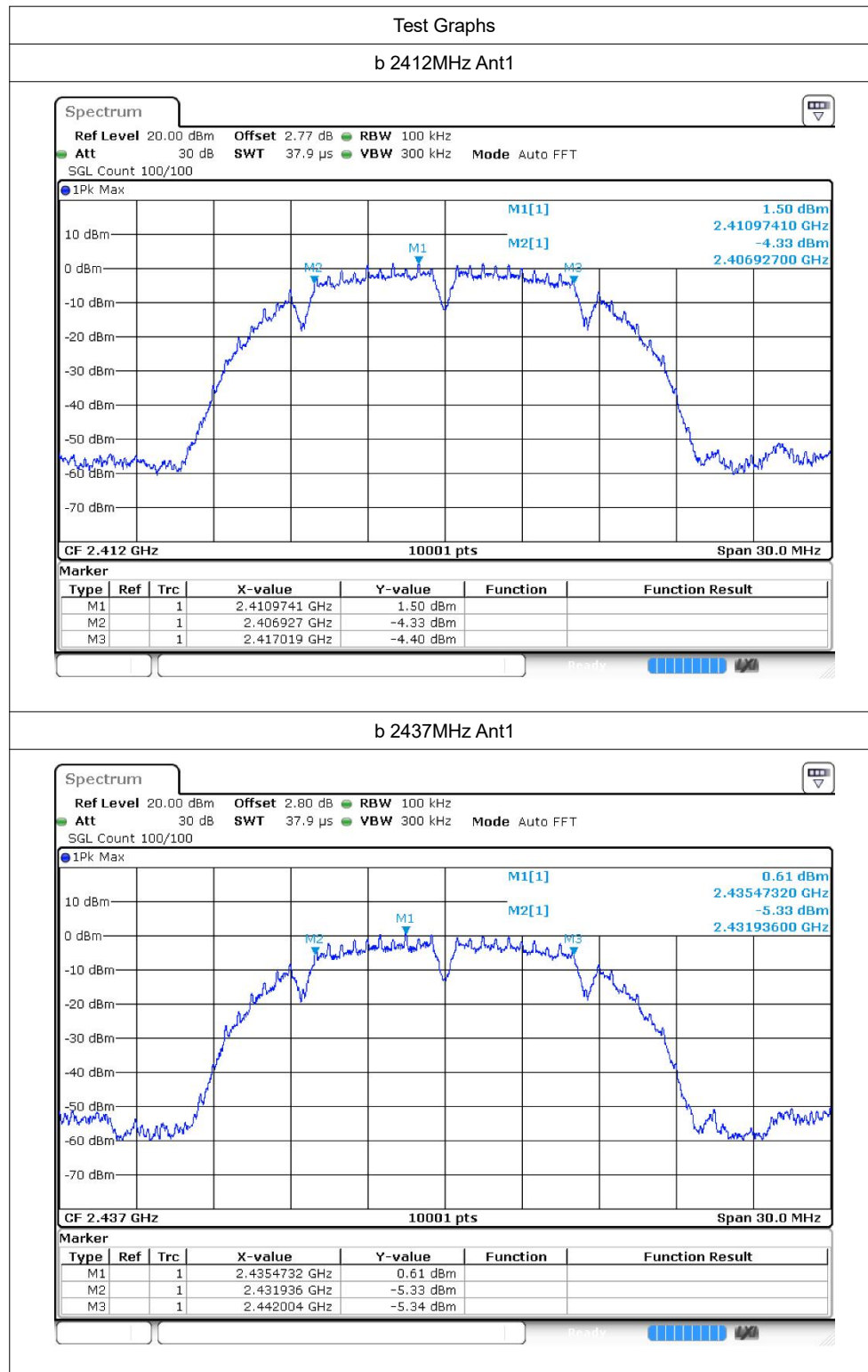


3 -6dB Bandwidth

3.1 Test Result

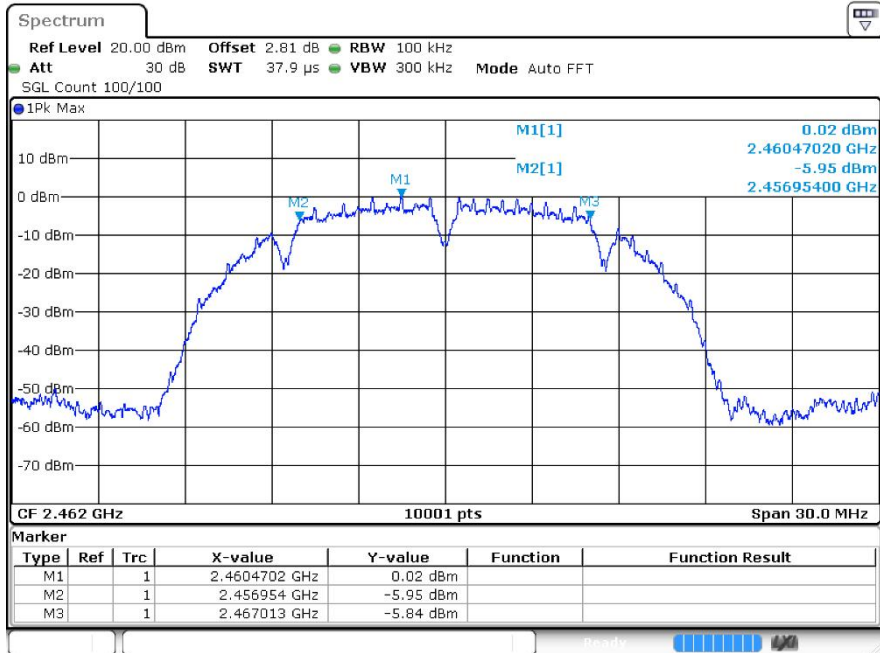
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.092	0.5	Pass
b	2437	Ant1	10.068	0.5	Pass
b	2462	Ant1	10.059	0.5	Pass
g	2412	Ant1	15.114	0.5	Pass
g	2437	Ant1	15.099	0.5	Pass
g	2462	Ant1	15.114	0.5	Pass
n20	2412	Ant1	15.087	0.5	Pass
n20	2437	Ant1	15.108	0.5	Pass
n20	2462	Ant1	15.12	0.5	Pass
n40	2422	Ant1	35.064	0.5	Pass
n40	2437	Ant1	31.338	0.5	Pass
n40	2452	Ant1	35.052	0.5	Pass
ax20	2412	Ant1	15.123	0.5	Pass
ax20	2437	Ant1	15.108	0.5	Pass
ax20	2462	Ant1	15.12	0.5	Pass
ax40	2422	Ant1	35.076	0.5	Pass
ax40	2437	Ant1	35.064	0.5	Pass
ax40	2452	Ant1	35.082	0.5	Pass
b	2412	Ant2	10.098	0.5	Pass
b	2437	Ant2	10.065	0.5	Pass
b	2462	Ant2	10.101	0.5	Pass
g	2412	Ant2	15.102	0.5	Pass
g	2437	Ant2	15.069	0.5	Pass
g	2462	Ant2	15.114	0.5	Pass
n20	2412	Ant2	15.078	0.5	Pass
n20	2437	Ant2	15.081	0.5	Pass
n20	2462	Ant2	15.042	0.5	Pass
n40	2422	Ant2	35.688	0.5	Pass
n40	2437	Ant2	31.314	0.5	Pass
n40	2452	Ant2	35.064	0.5	Pass
ax20	2412	Ant2	15.096	0.5	Pass
ax20	2437	Ant2	15.102	0.5	Pass
ax20	2462	Ant2	15.081	0.5	Pass
ax40	2422	Ant2	35.01	0.5	Pass
ax40	2437	Ant2	35.034	0.5	Pass
ax40	2452	Ant2	35.07	0.5	Pass

3.2 Test Graphs

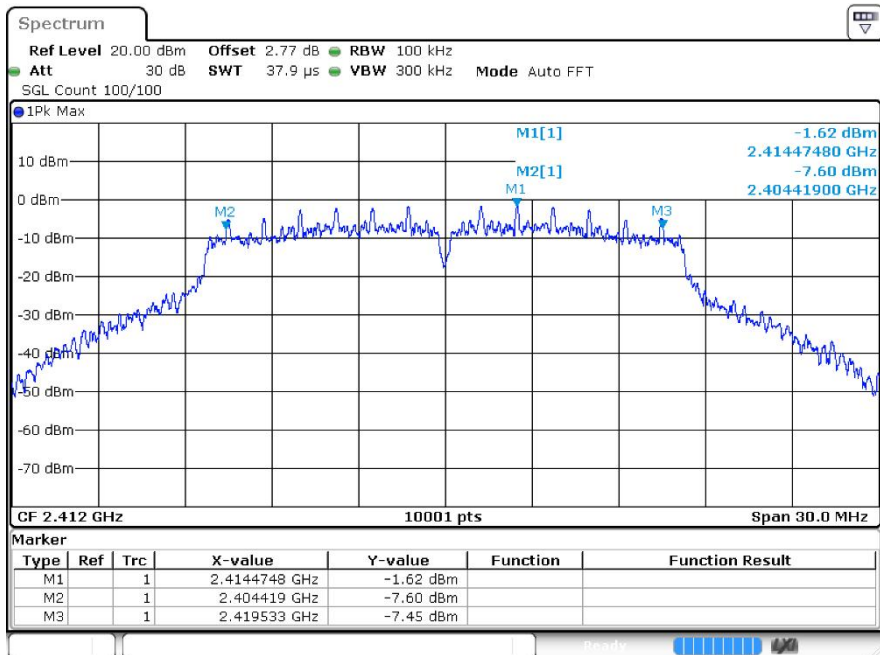




b 2462MHz Ant1

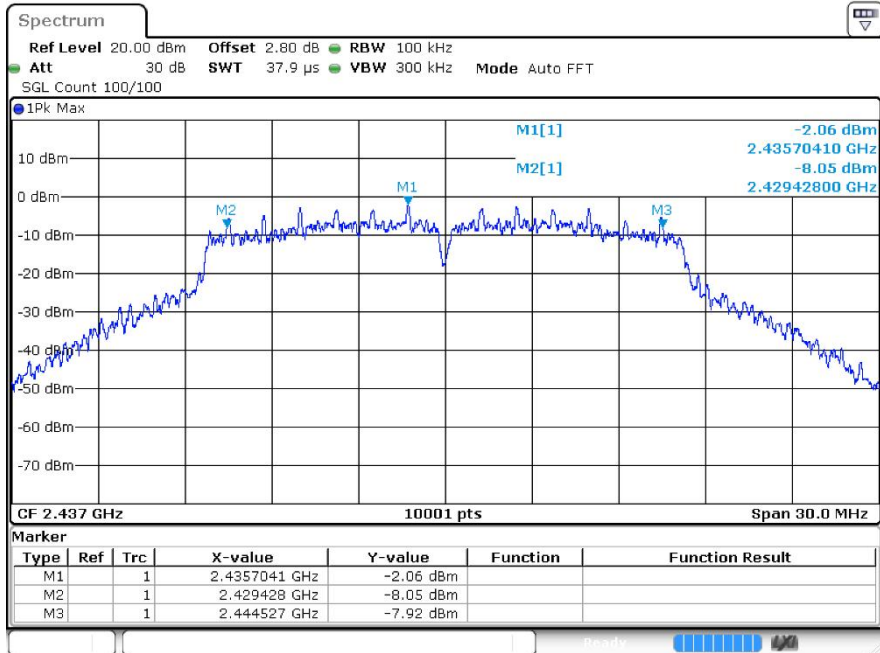


g 2412MHz Ant1





g 2437MHz Ant1



g 2462MHz Ant1

