



## Appendix C

### RF Test Data for 2.4GWIFI(Conducted Measurement)

Product Name: Wifi adapter

Trade Mark: N/A

Test Model: L6

#### 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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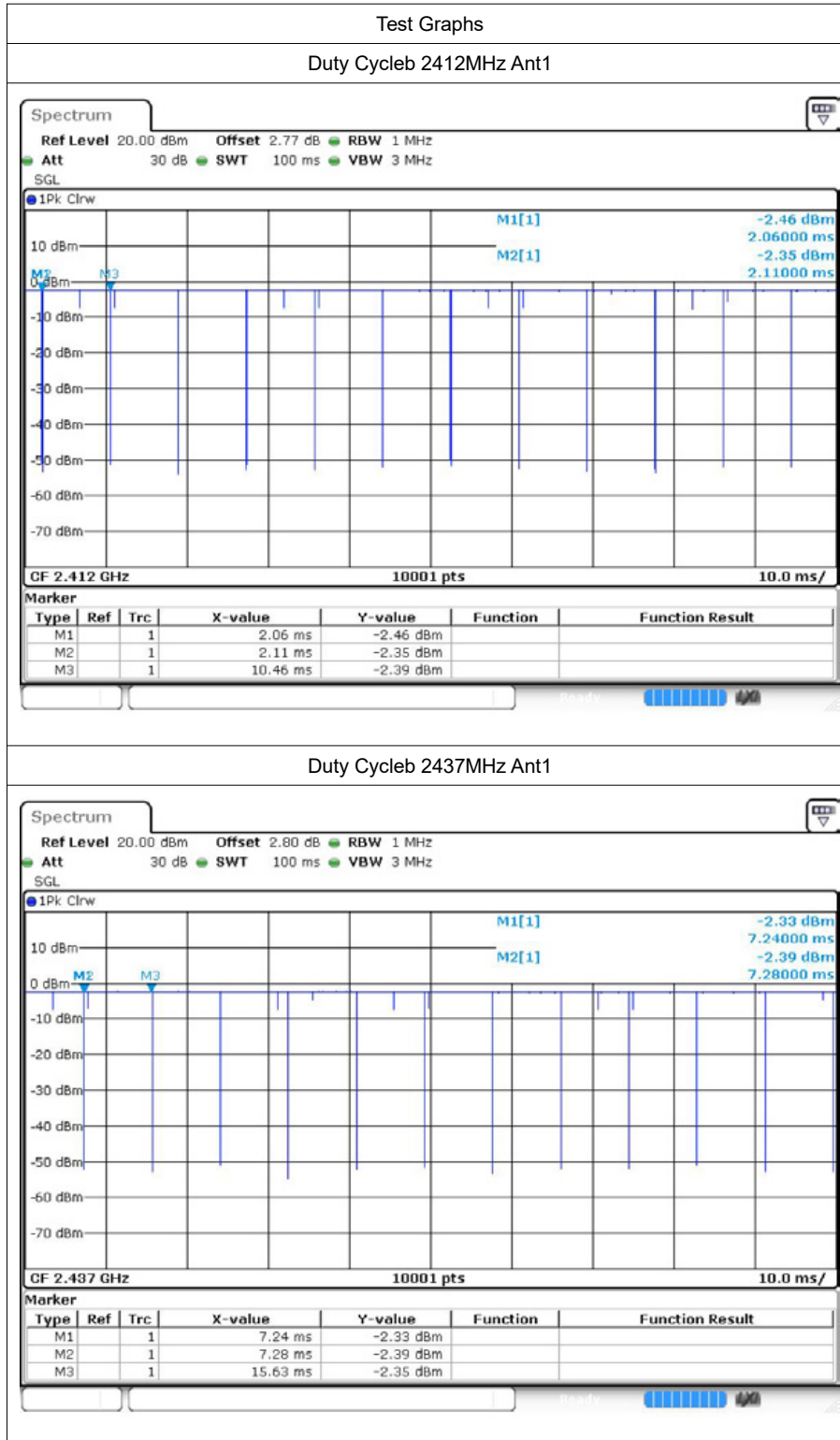


# 1 Duty Cycle

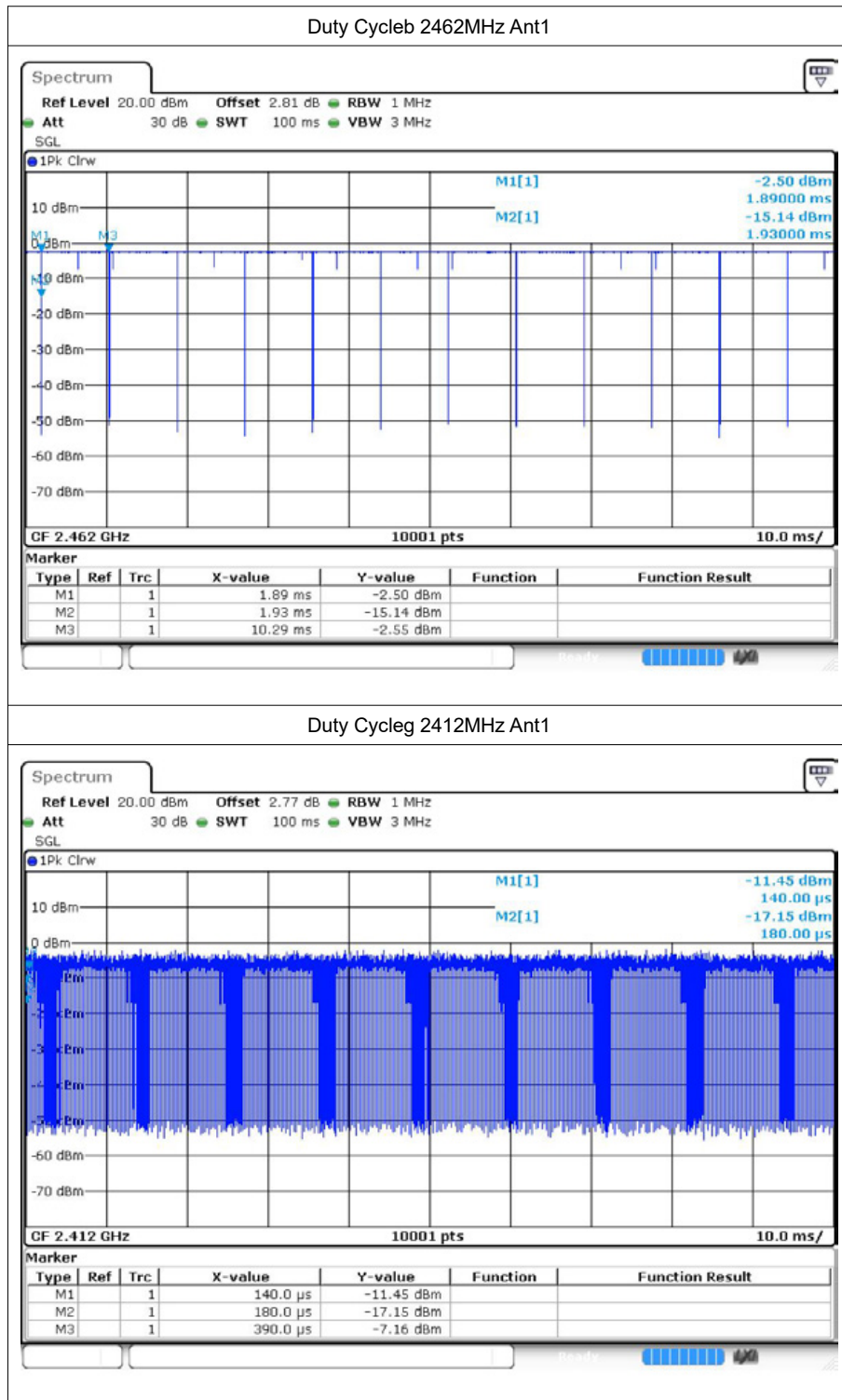
## 1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.59	0.02	0.12
b	2437	Ant1	99.6	0.02	0.12
b	2462	Ant1	99.6	0.02	0.12
g	2412	Ant1	99.59	0.02	0.12
g	2437	Ant1	99.6	0.02	0.12
g	2462	Ant1	99.6	0.02	0.12
n20	2412	Ant1	92.71	0.33	2.22
n20	2437	Ant1	92.99	0.32	2.22
n20	2462	Ant1	92.93	0.32	2.22
n40	2422	Ant1	88.42	0.53	16.67
n40	2437	Ant1	88.41	0.53	16.67
n40	2452	Ant1	88.49	0.53	2.33
ax20	2412	Ant1	86.94	0.61	4.55
ax20	2437	Ant1	86.95	0.61	4.35
ax20	2462	Ant1	86.96	0.61	4.55
ax40	2422	Ant1	79.08	1.02	4.76
ax40	2437	Ant1	79.33	1.01	4.55
ax40	2452	Ant1	79.41	1	4.17
b	2412	Ant2	99.6	0.02	0.12
b	2437	Ant2	99.6	0.02	0.12
b	2462	Ant2	99.59	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	99.59	0.02	0.12
n20	2412	Ant2	92.75	0.33	2.27
n20	2437	Ant2	92.95	0.32	2.22
n20	2462	Ant2	92.96	0.32	2.22
n40	2422	Ant2	91.7	0.38	25.00
n40	2437	Ant2	91.66	0.38	25.00
n40	2452	Ant2	91.65	0.38	25.00
ax20	2412	Ant2	86.91	0.61	4.35
ax20	2437	Ant2	86.87	0.61	4.55
ax20	2462	Ant2	86.87	0.61	4.55
ax40	2422	Ant2	84.59	0.73	4.76
ax40	2437	Ant2	85.63	0.67	4.55
ax40	2452	Ant2	85.48	0.68	4.17

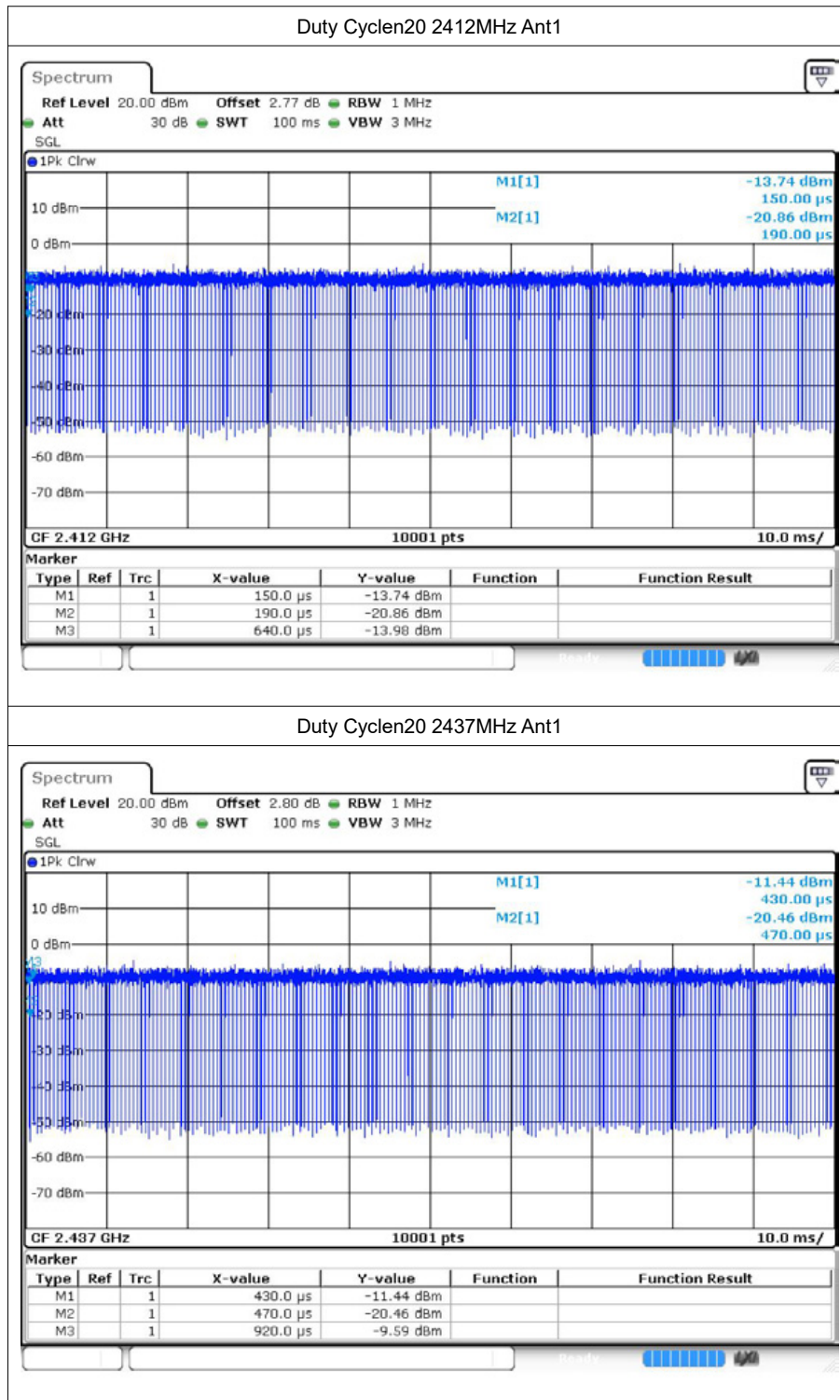
## 1.2 Test Graphs

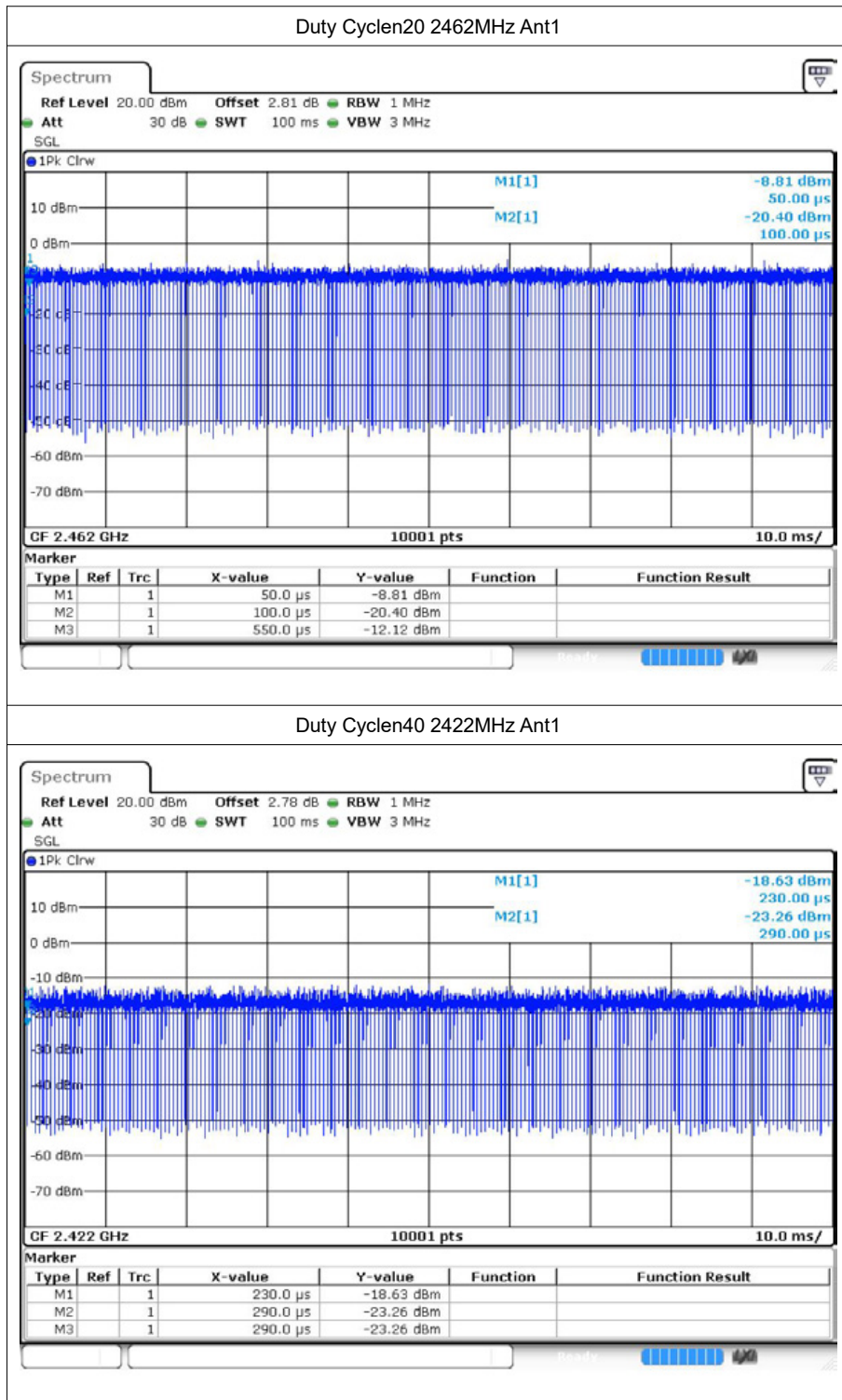


Duty Cycleb 2437MHz Ant1

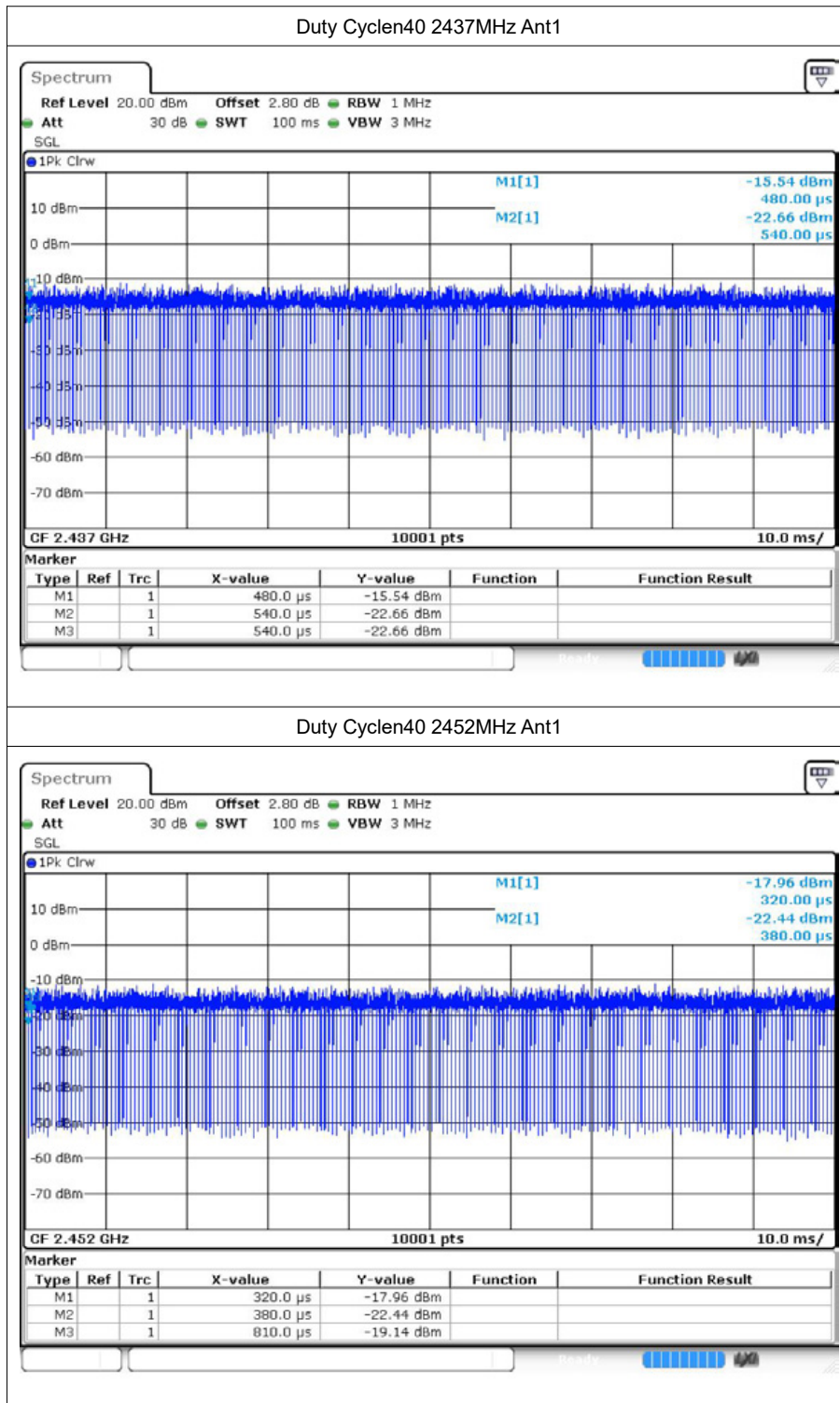






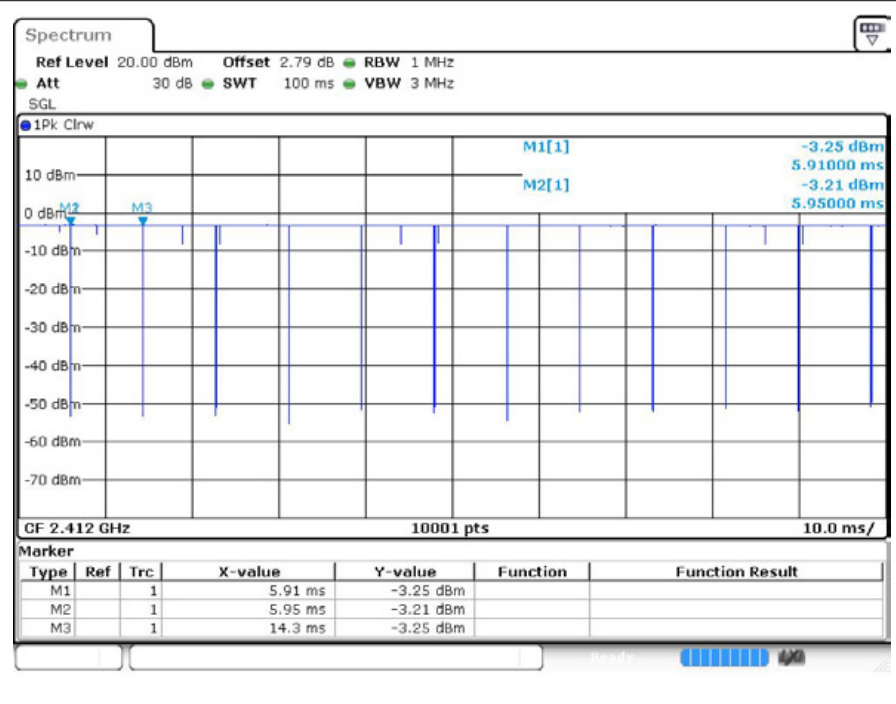




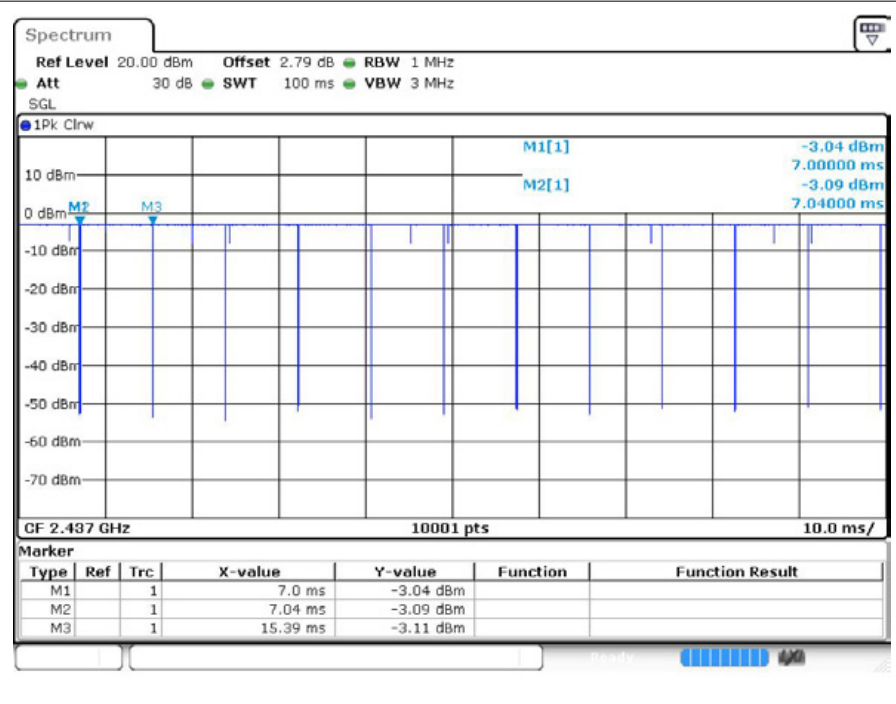


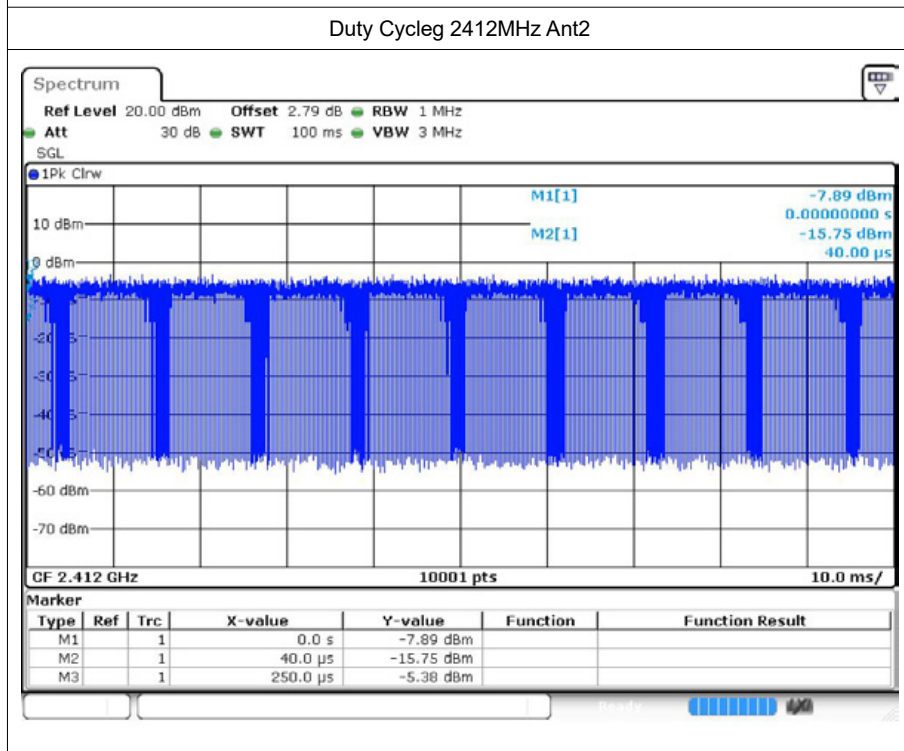
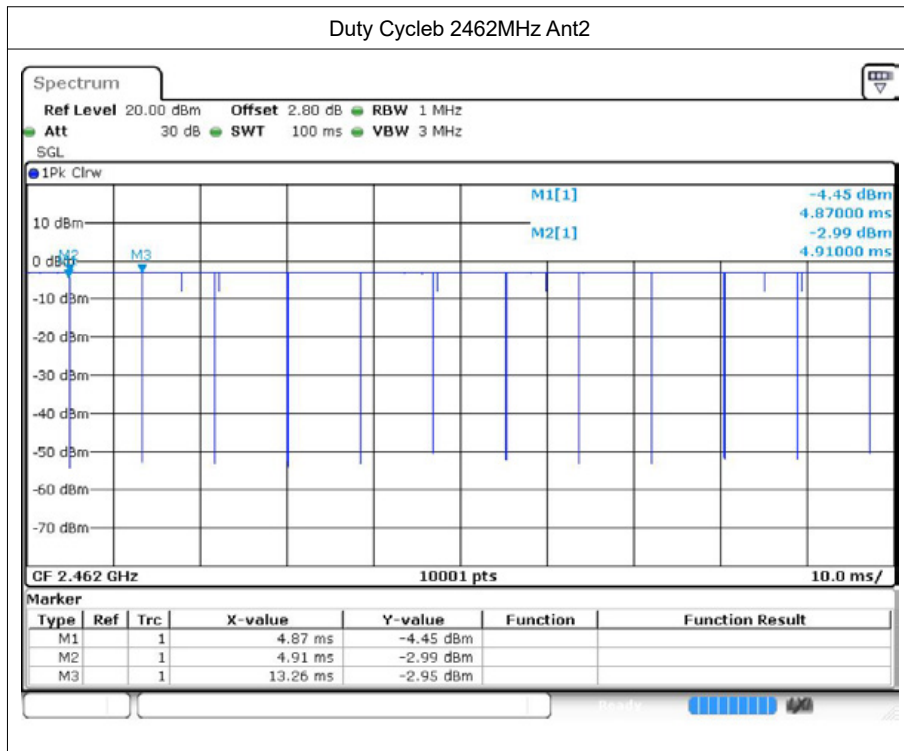
Test Graphs

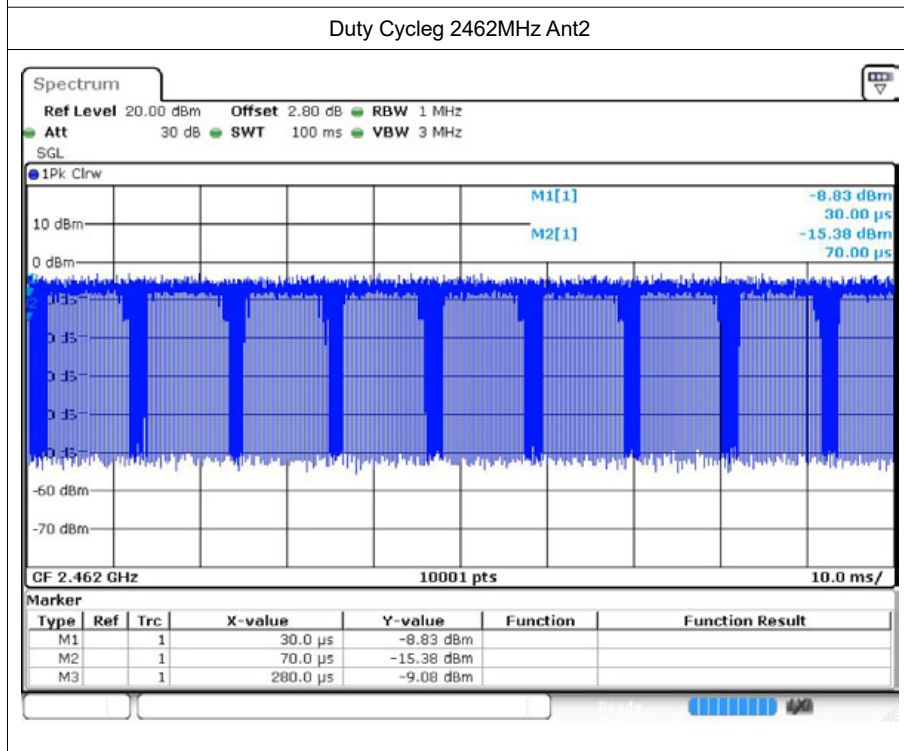
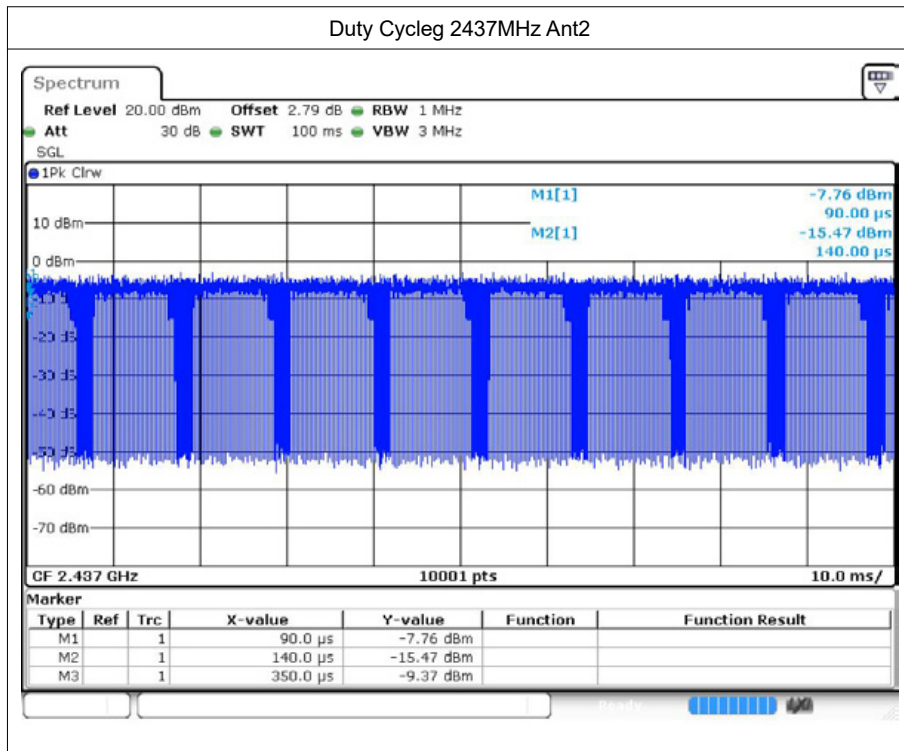
Duty Cycle 2412MHz Ant2

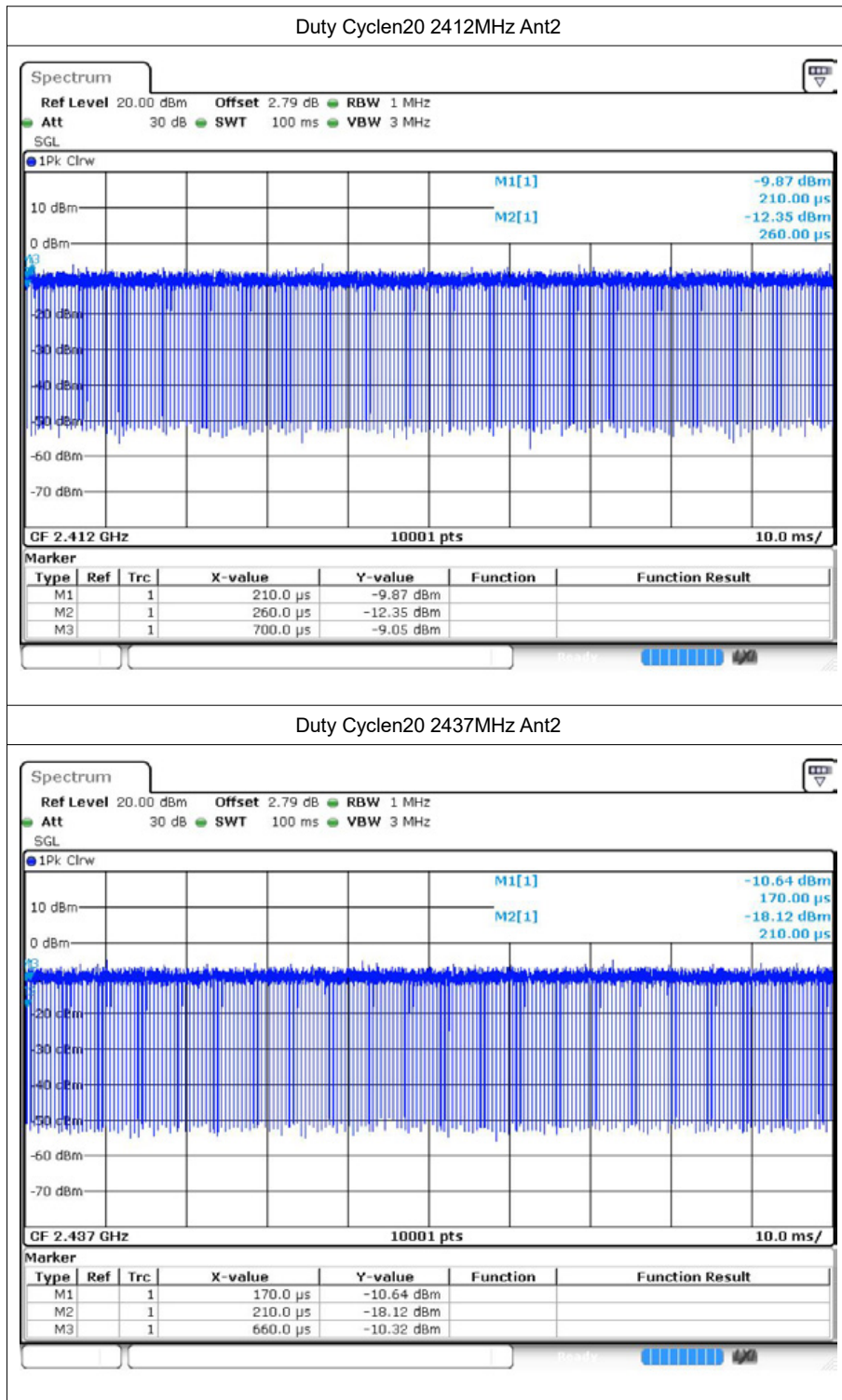


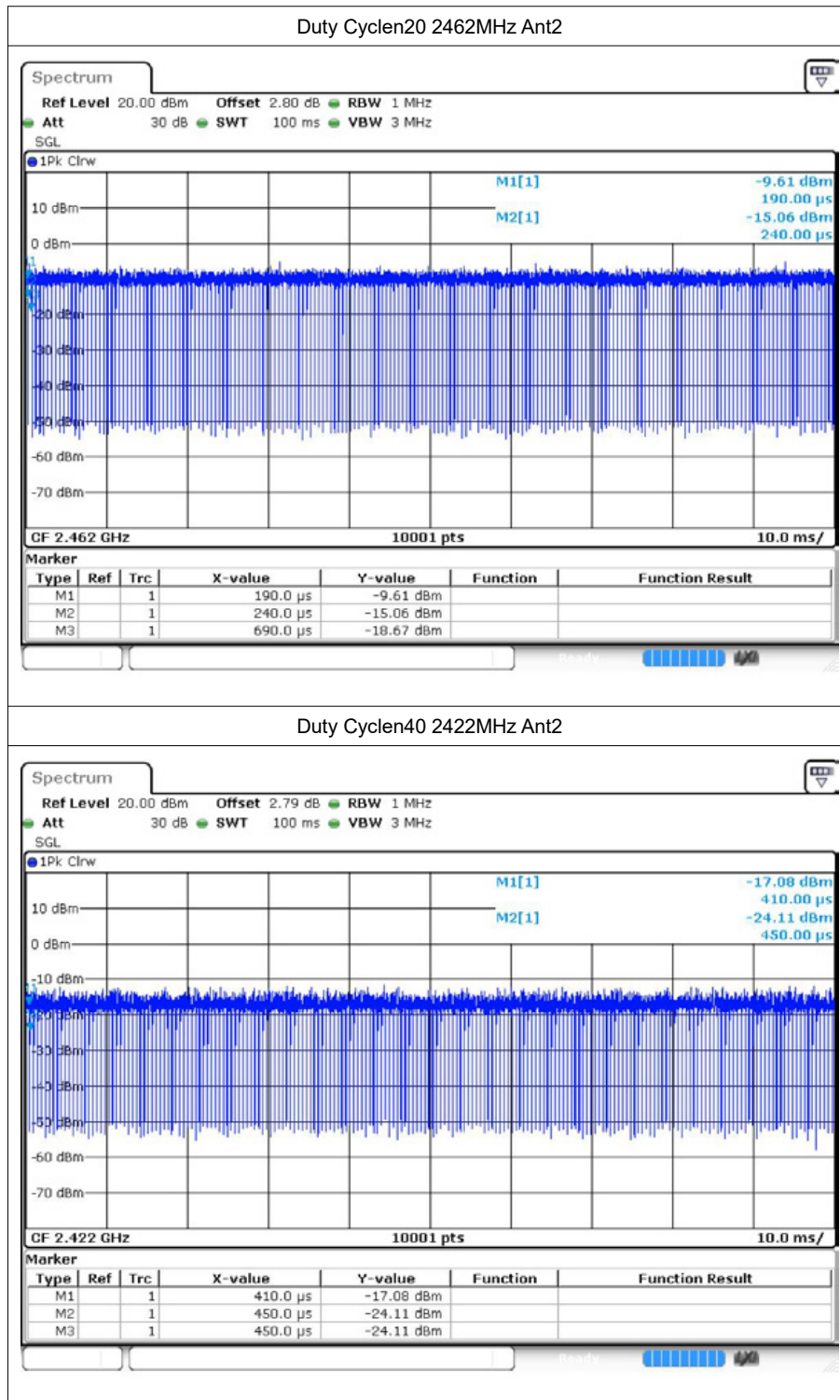
Duty Cycle 2437MHz Ant2

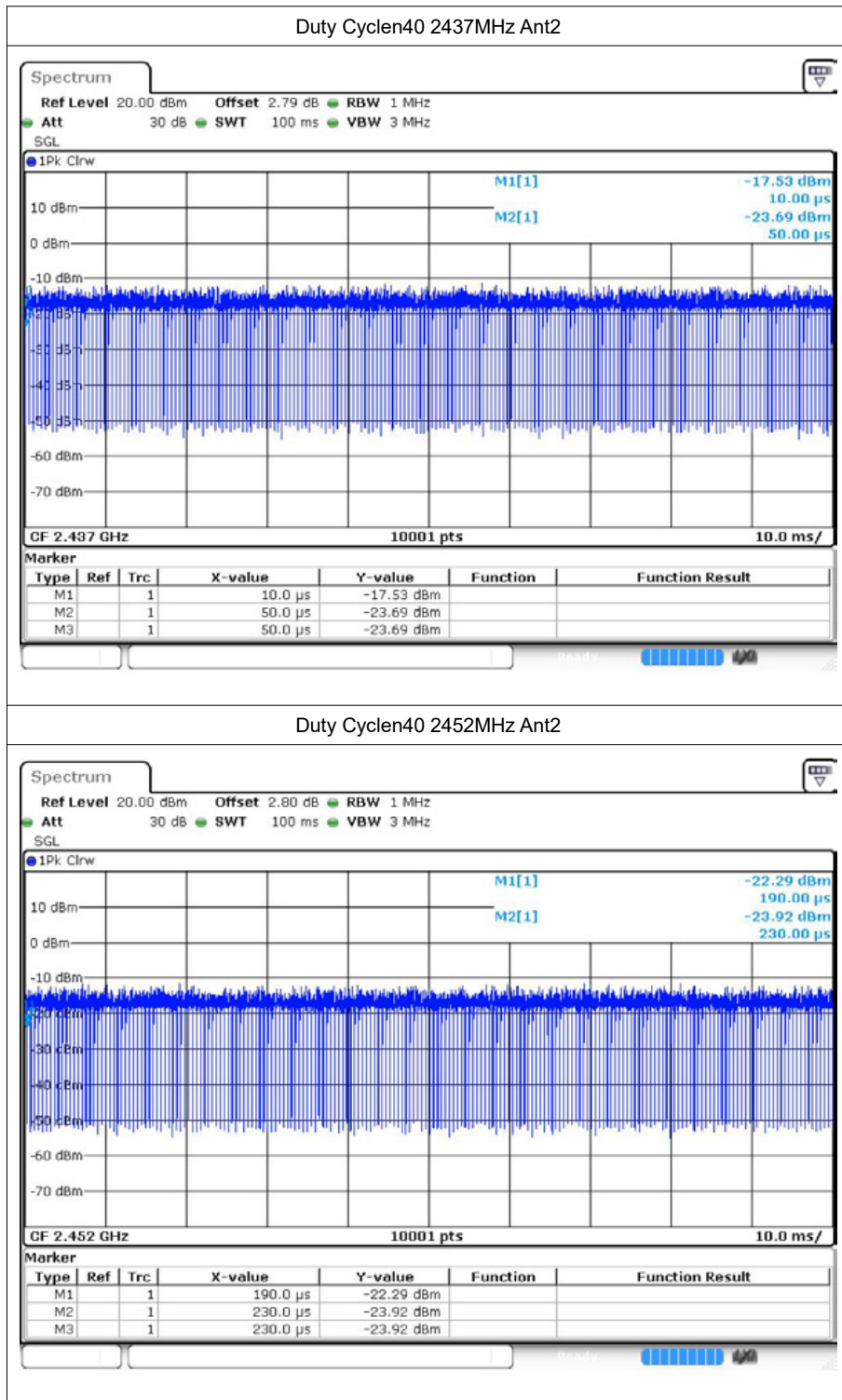


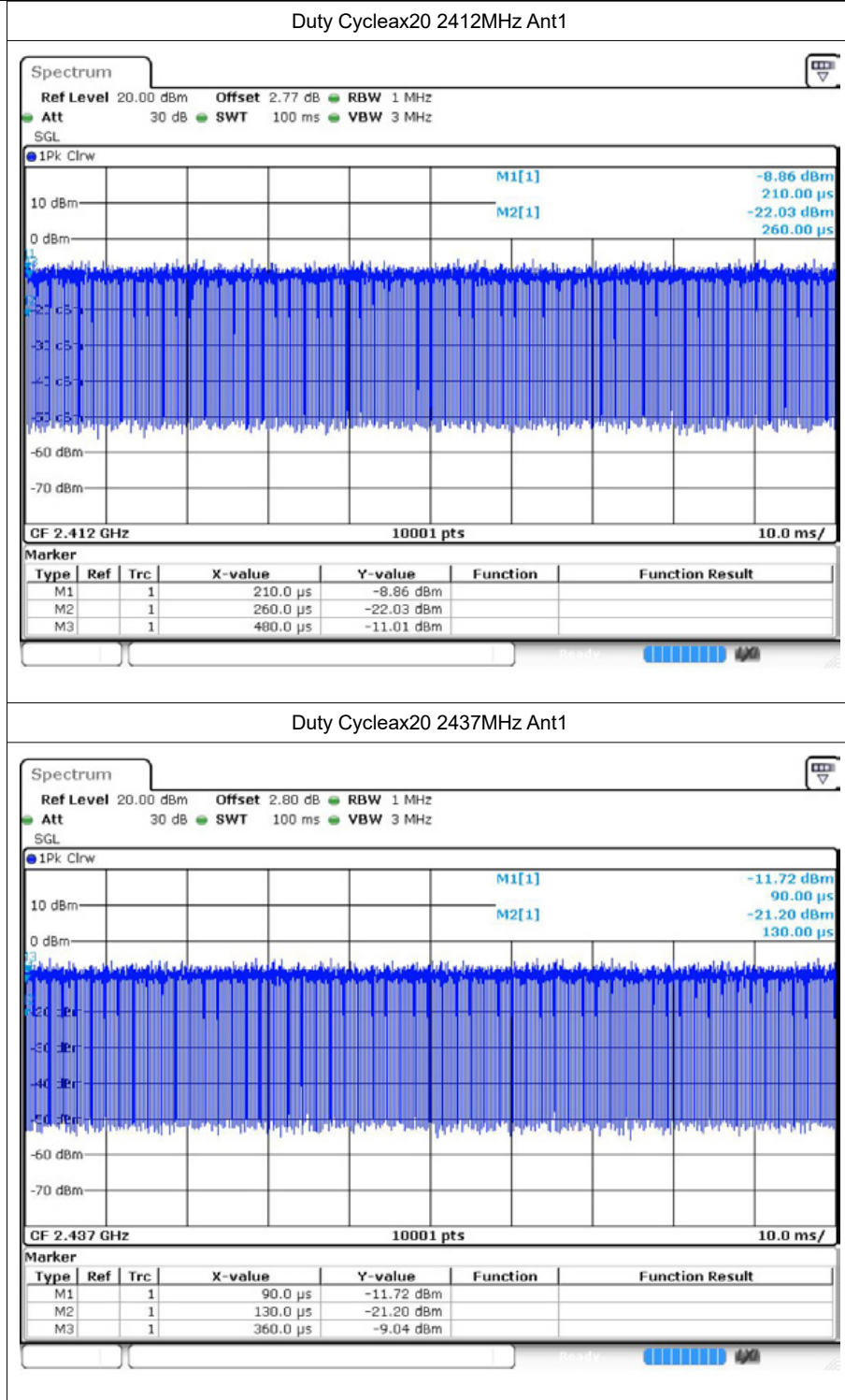




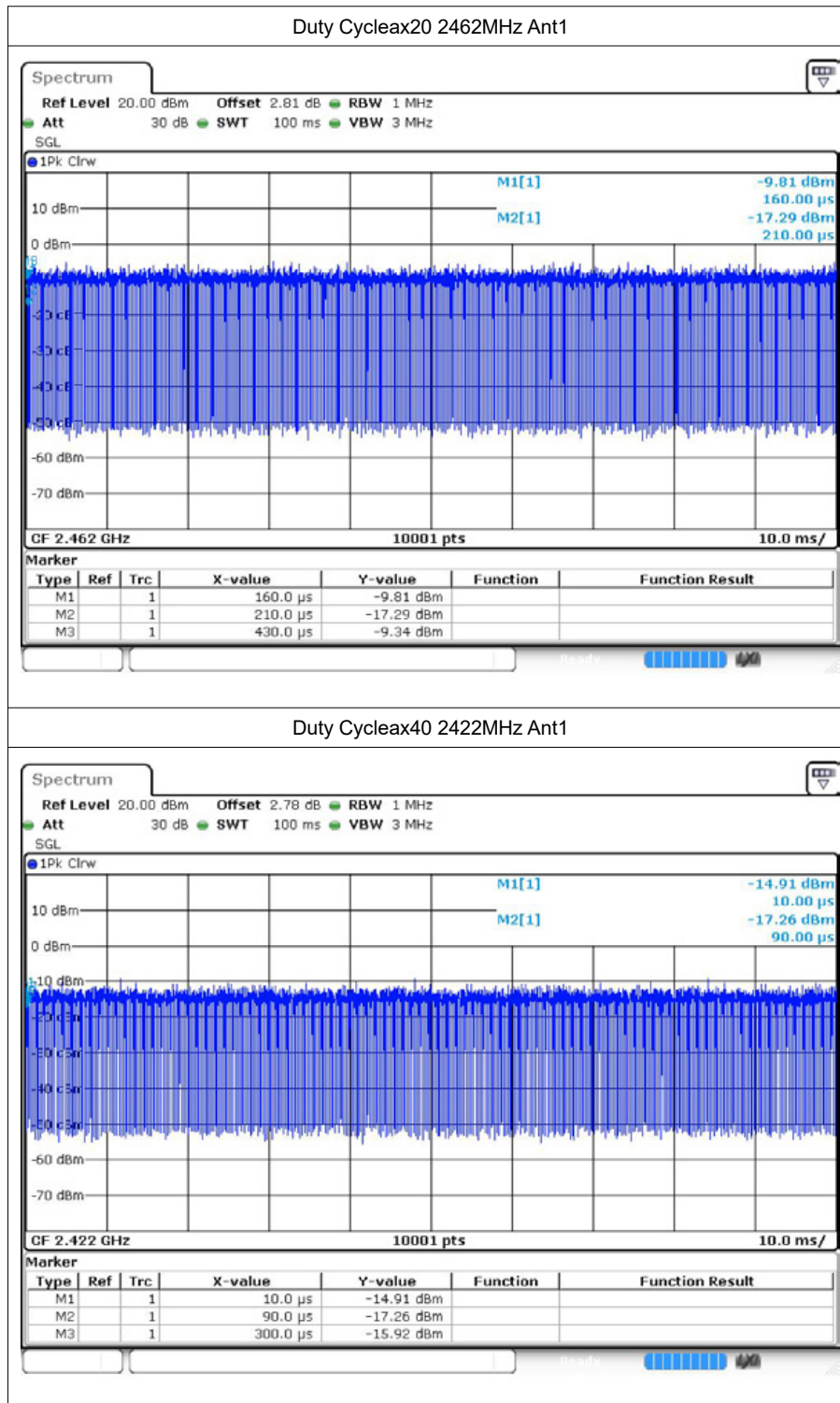


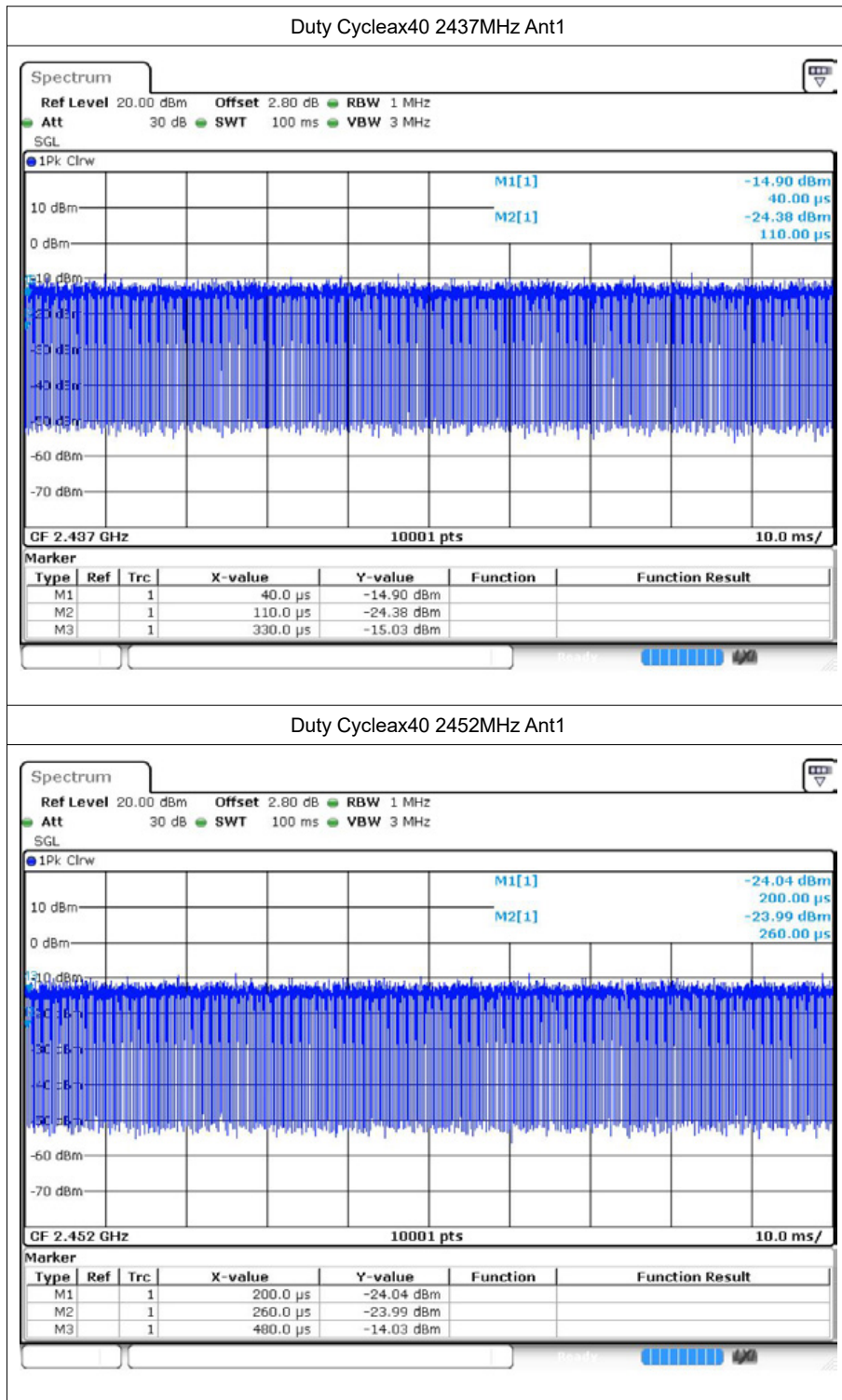


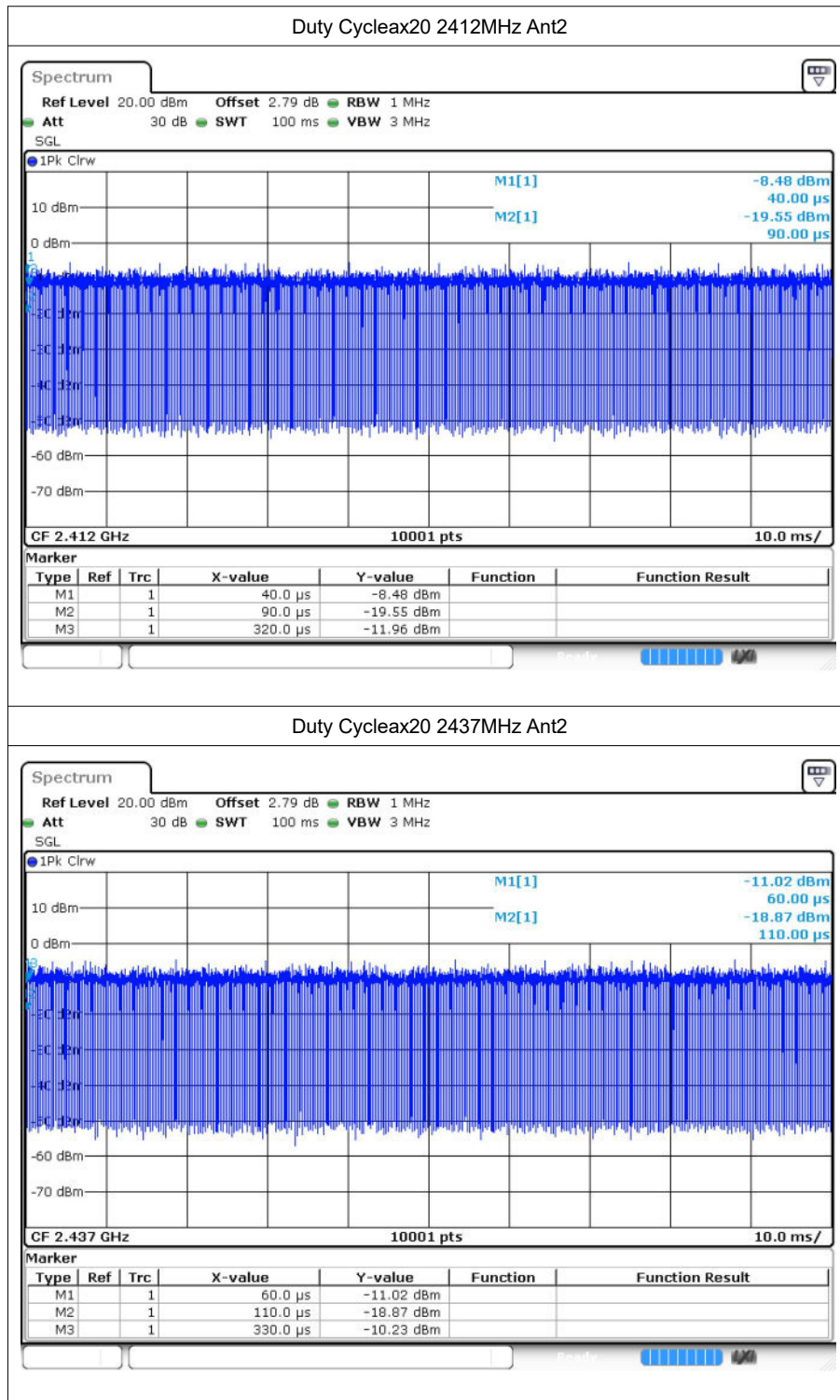


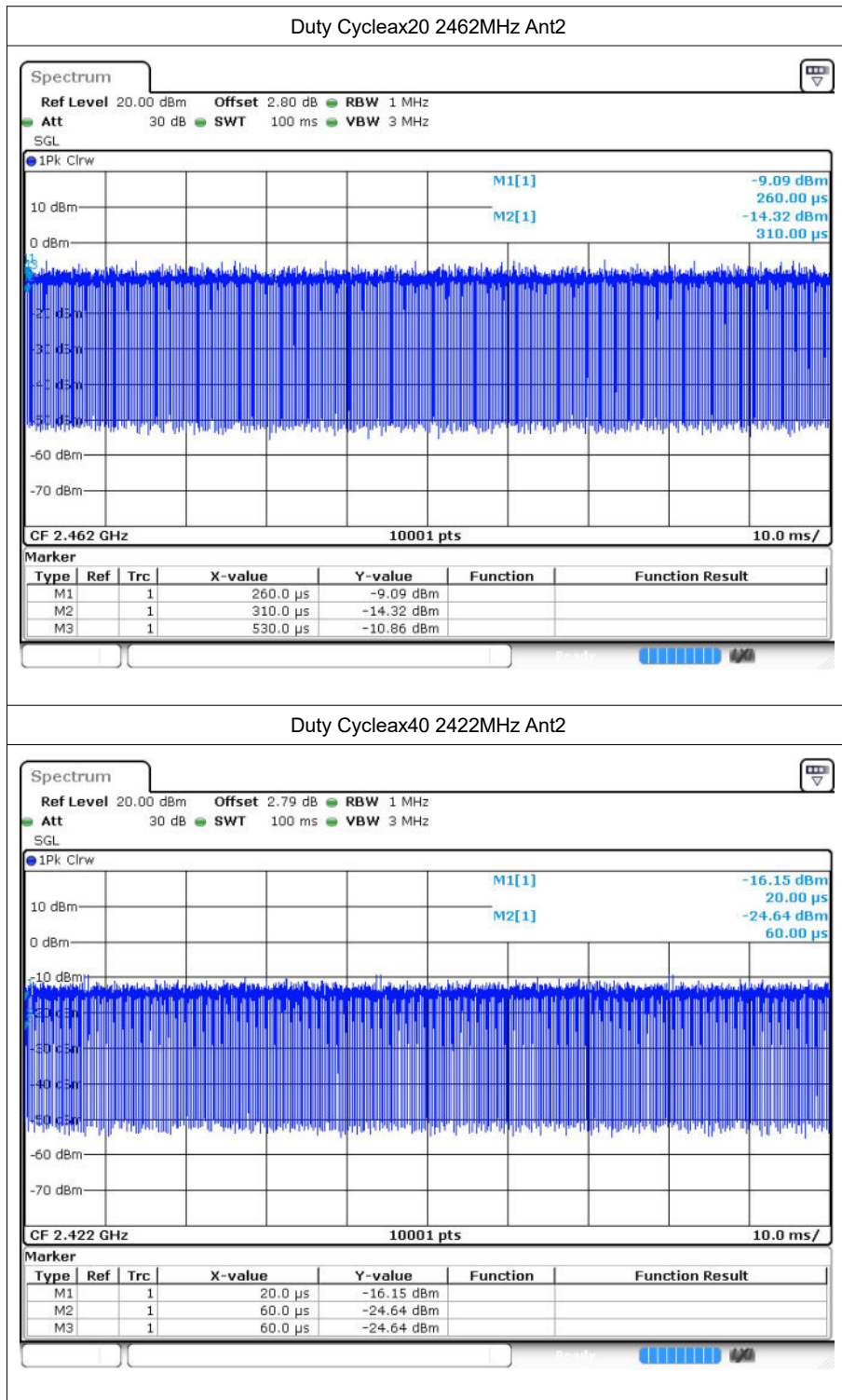


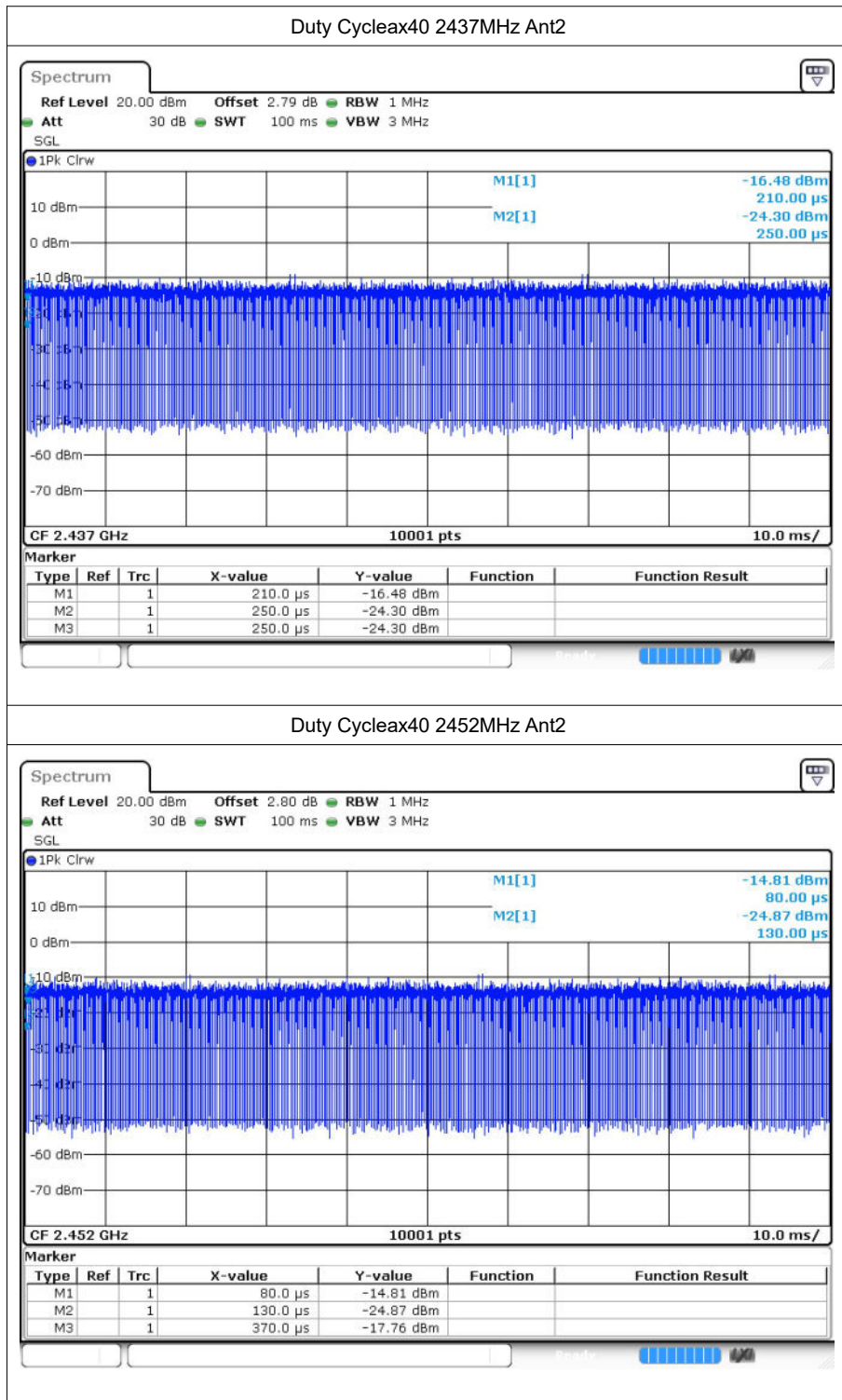














## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	8.13	30	Pass
b	2437	Ant1	7.99	30	Pass
b	2462	Ant1	8.05	30	Pass
b	2412	Ant2	7.15	30	Pass
b	2437	Ant2	7.28	30	Pass
b	2462	Ant2	6.52	30	Pass
g	2412	Ant1	7.35	30	Pass
g	2437	Ant1	7.25	30	Pass
g	2462	Ant1	7.41	30	Pass
g	2412	Ant2	6.19	30	Pass
g	2437	Ant2	6.37	30	Pass
g	2462	Ant2	6.61	30	Pass
n20	2412	Ant1	4.53	30	Pass
n20	2437	Ant1	5.33	30	Pass
n20	2462	Ant1	5.36	30	Pass
n20	2412	Ant2	4.27	30	Pass
n20	2437	Ant2	5	30	Pass
n20	2462	Ant2	4.76	30	Pass
n20	2412	Sum	7.41	30	Pass
n20	2437	Sum	8.18	30	Pass
n20	2462	Sum	8.08	30	Pass
n40	2422	Ant1	4.81	30	Pass
n40	2437	Ant1	5.14	30	Pass
n40	2452	Ant1	5.36	30	Pass
n40	2422	Ant2	4.45	30	Pass
n40	2437	Ant2	4.82	30	Pass
n40	2452	Ant2	4.73	30	Pass
n40	2422	Sum	7.64	30	Pass
n40	2437	Sum	7.99	30	Pass
n40	2452	Sum	8.07	30	Pass
ax20	2412	Ant1	4.34	30	Pass
ax20	2437	Ant1	5.05	30	Pass
ax20	2462	Ant1	5.14	30	Pass
ax20	2412	Ant2	4.04	30	Pass
ax20	2437	Ant2	4.93	30	Pass
ax20	2462	Ant2	4.67	30	Pass



ax20	2412	Sum	7.28	30	Pass
ax20	2437	Sum	8.1	30	Pass
ax20	2462	Sum	7.93	30	Pass
ax40	2422	Ant1	4.48	30	Pass
ax40	2437	Ant1	4.88	30	Pass
ax40	2452	Ant1	5.16	30	Pass
ax40	2422	Ant2	4.35	30	Pass
ax40	2437	Ant2	4.81	30	Pass
ax40	2452	Ant2	4.76	30	Pass
ax40	2422	Sum	7.43	30	Pass
ax40	2437	Sum	7.86	30	Pass
ax40	2452	Sum	7.97	30	Pass



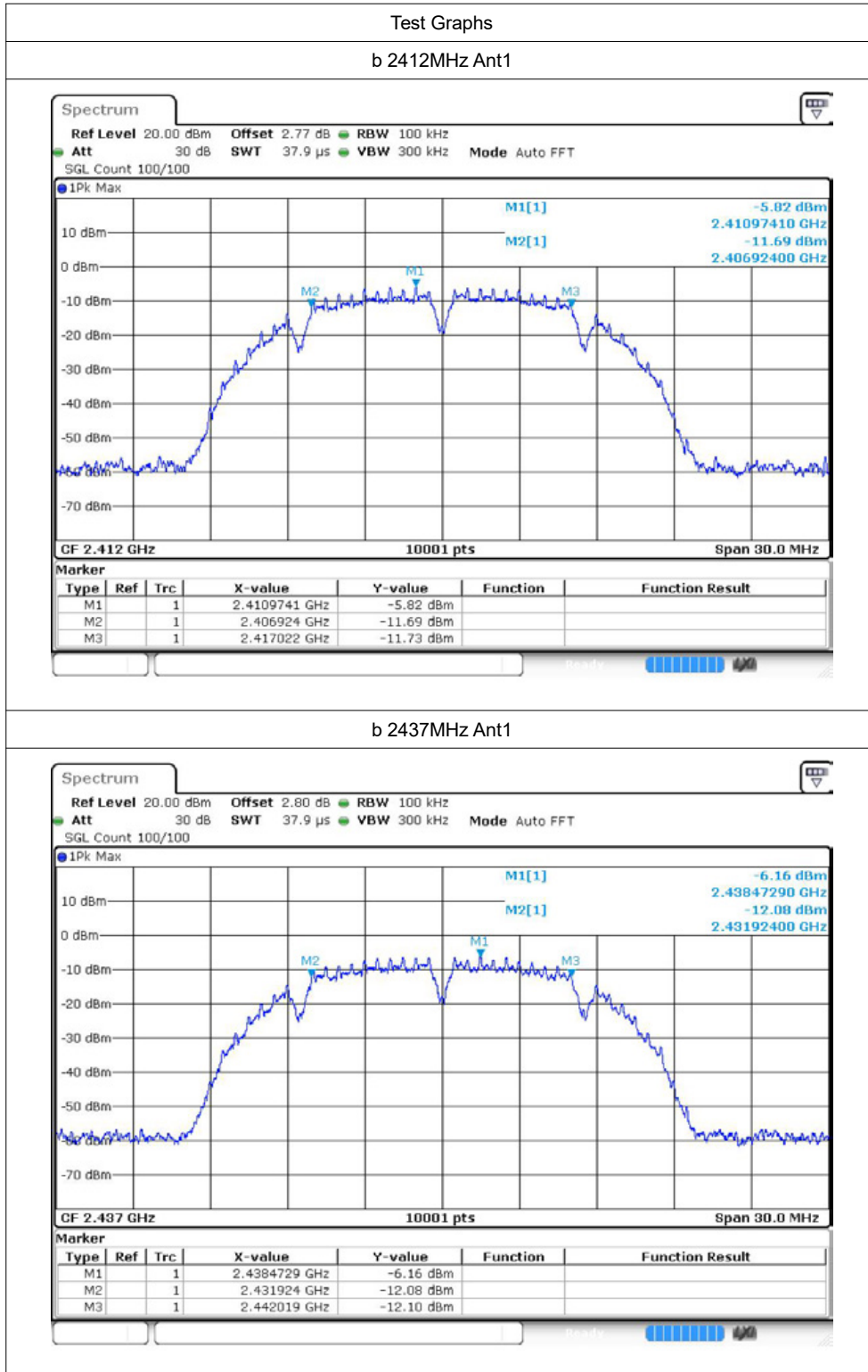
### 3 -6dB Bandwidth

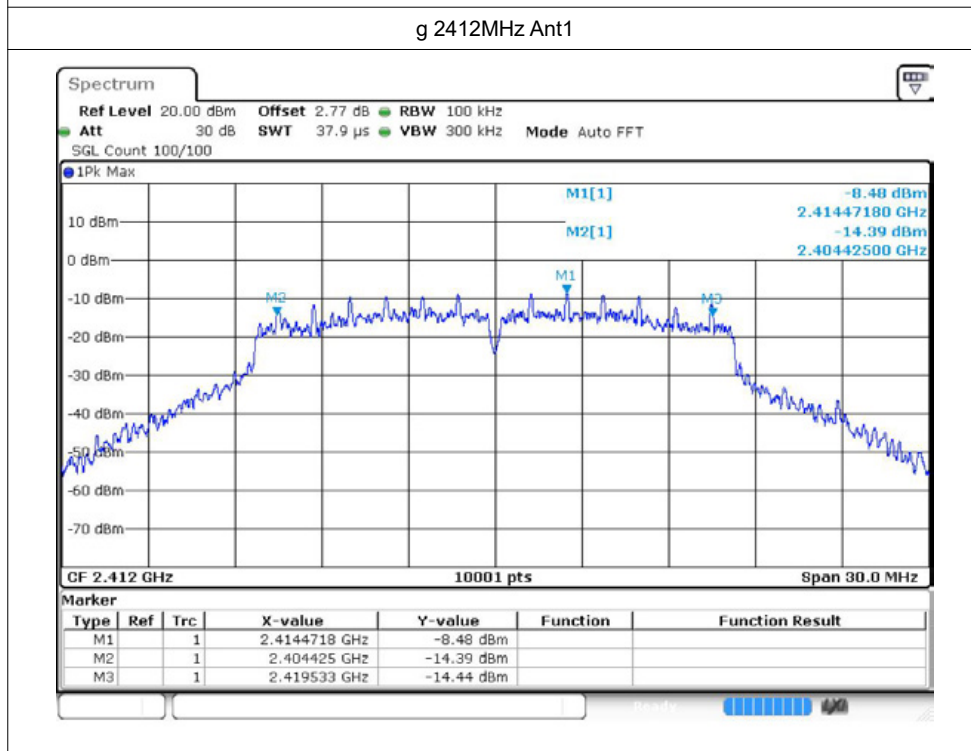
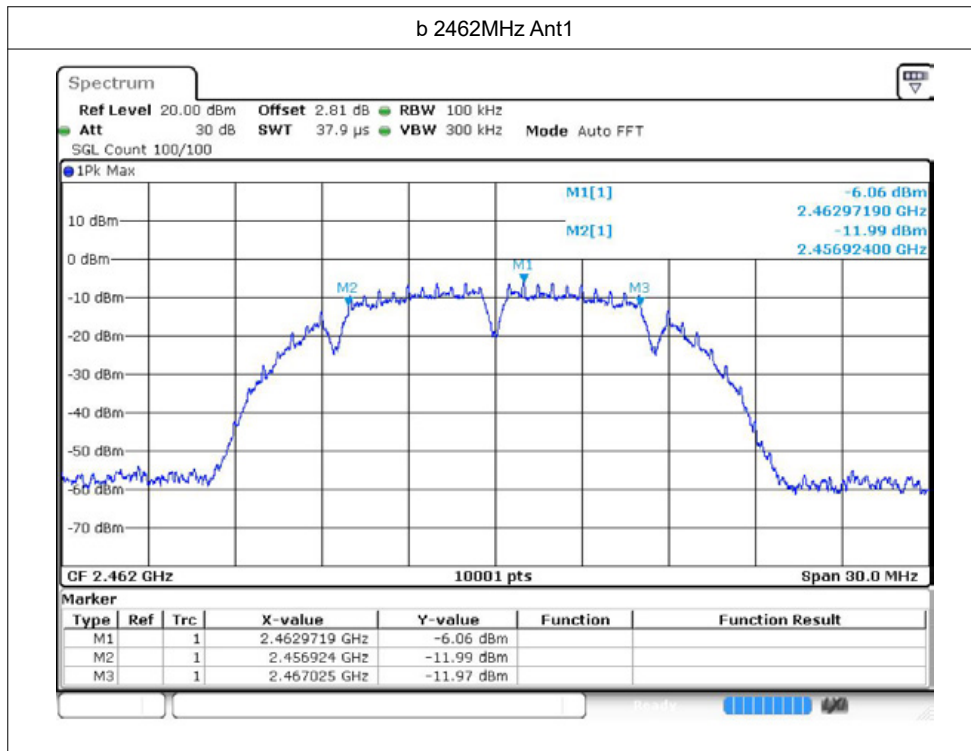
#### 3.1 Test Result

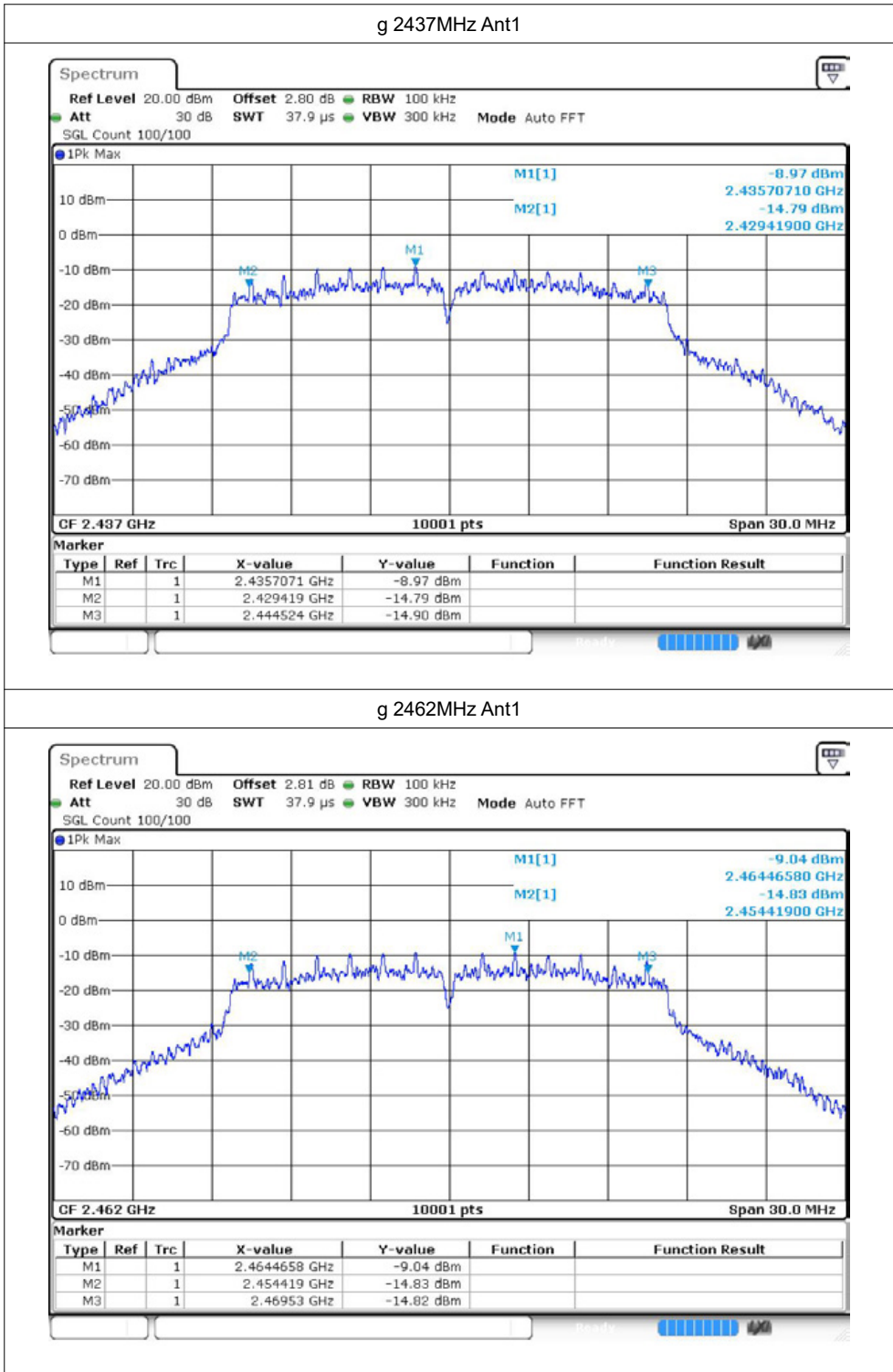
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	10.098	0.5	Pass
b	2437	Ant1	10.095	0.5	Pass
b	2462	Ant1	10.101	0.5	Pass
g	2412	Ant1	15.108	0.5	Pass
g	2437	Ant1	15.105	0.5	Pass
g	2462	Ant1	15.111	0.5	Pass
n20	2412	Ant1	13.203	0.5	Pass
n20	2437	Ant1	15.114	0.5	Pass
n20	2462	Ant1	15.105	0.5	Pass
n40	2422	Ant1	31.29	0.5	Pass
n40	2437	Ant1	31.314	0.5	Pass
n40	2452	Ant1	30.654	0.5	Pass
ax20	2412	Ant1	15.105	0.5	Pass
ax20	2437	Ant1	13.83	0.5	Pass
ax20	2462	Ant1	15.39	0.5	Pass
ax40	2422	Ant1	35.04	0.5	Pass
ax40	2437	Ant1	33.84	0.5	Pass
ax40	2452	Ant1	35.094	0.5	Pass
b	2412	Ant2	10.095	0.5	Pass
b	2437	Ant2	9.867	0.5	Pass
b	2462	Ant2	10.083	0.5	Pass
g	2412	Ant2	15.111	0.5	Pass
g	2437	Ant2	15.099	0.5	Pass
g	2462	Ant2	15.105	0.5	Pass
n20	2412	Ant2	15.057	0.5	Pass
n20	2437	Ant2	15.114	0.5	Pass
n20	2462	Ant2	15.327	0.5	Pass
n40	2422	Ant2	31.422	0.5	Pass
n40	2437	Ant2	35.04	0.5	Pass
n40	2452	Ant2	35.082	0.5	Pass
ax20	2412	Ant2	16.389	0.5	Pass
ax20	2437	Ant2	15.09	0.5	Pass
ax20	2462	Ant2	15.111	0.5	Pass
ax40	2422	Ant2	35.076	0.5	Pass
ax40	2437	Ant2	35.052	0.5	Pass
ax40	2452	Ant2	35.07	0.5	Pass

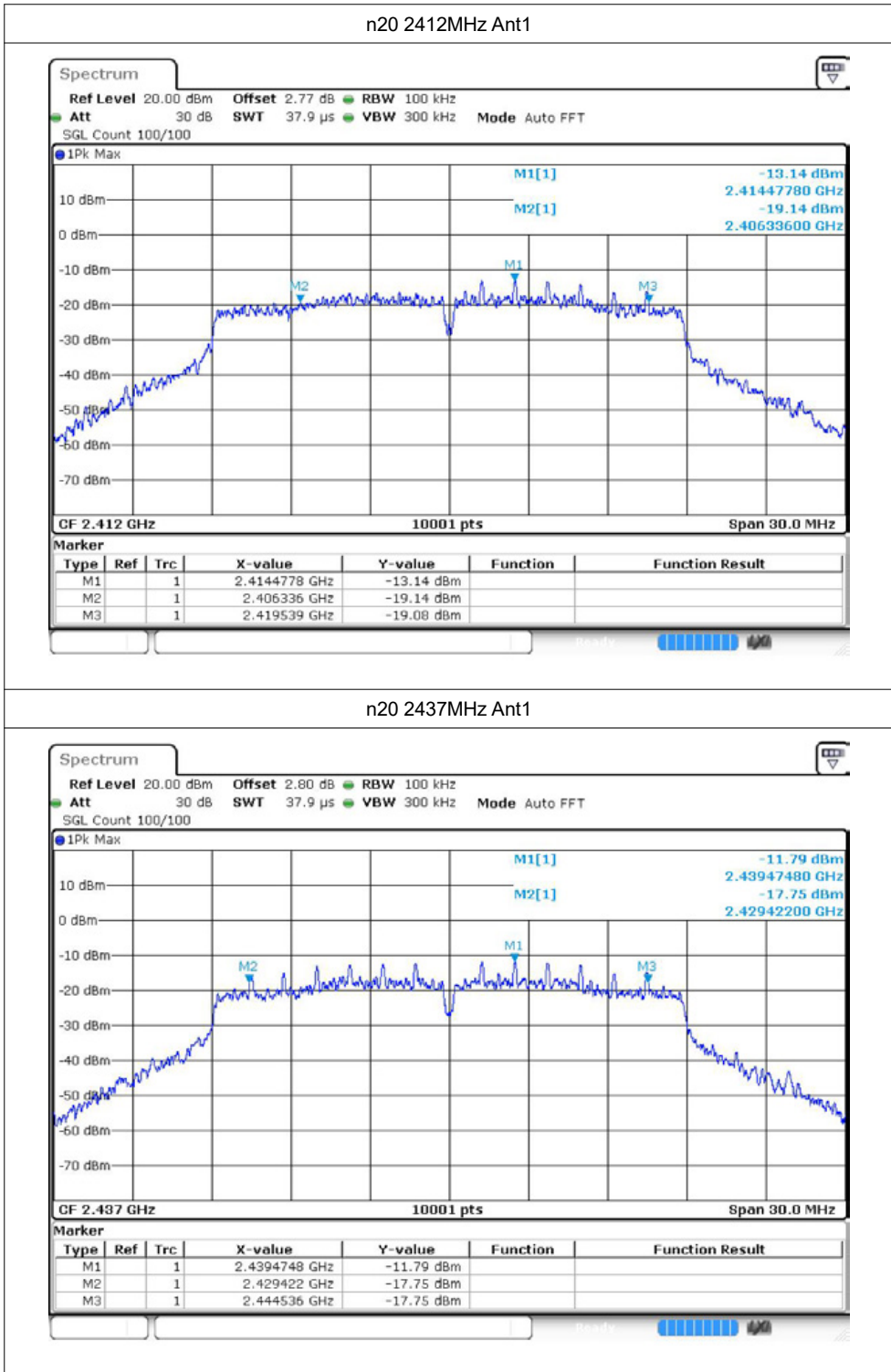


### 3.2 Test Graphs

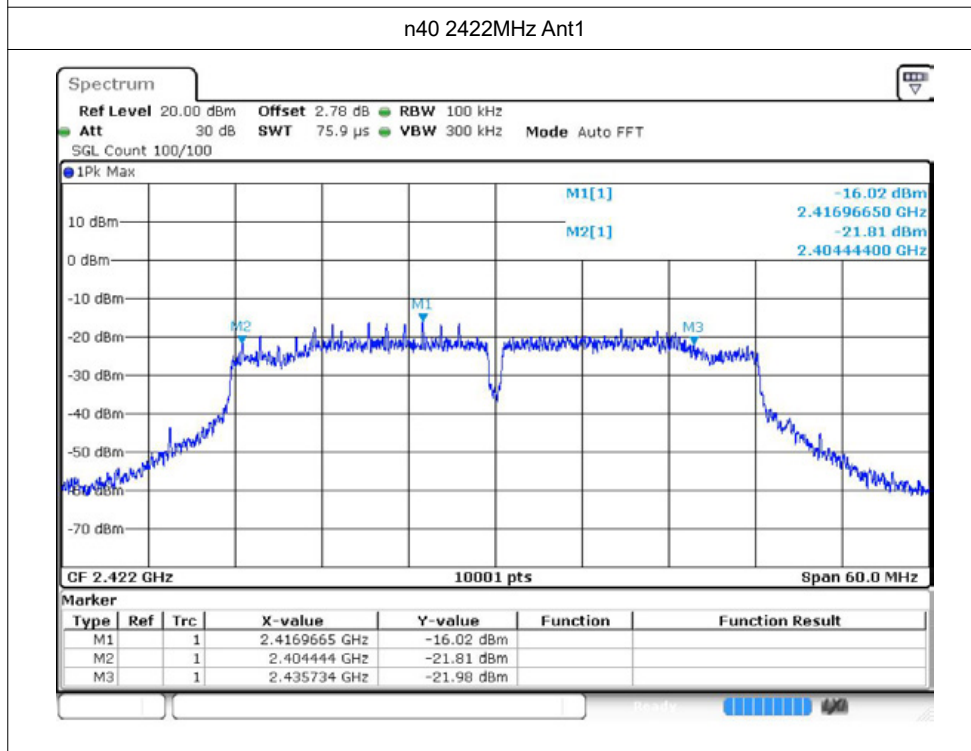
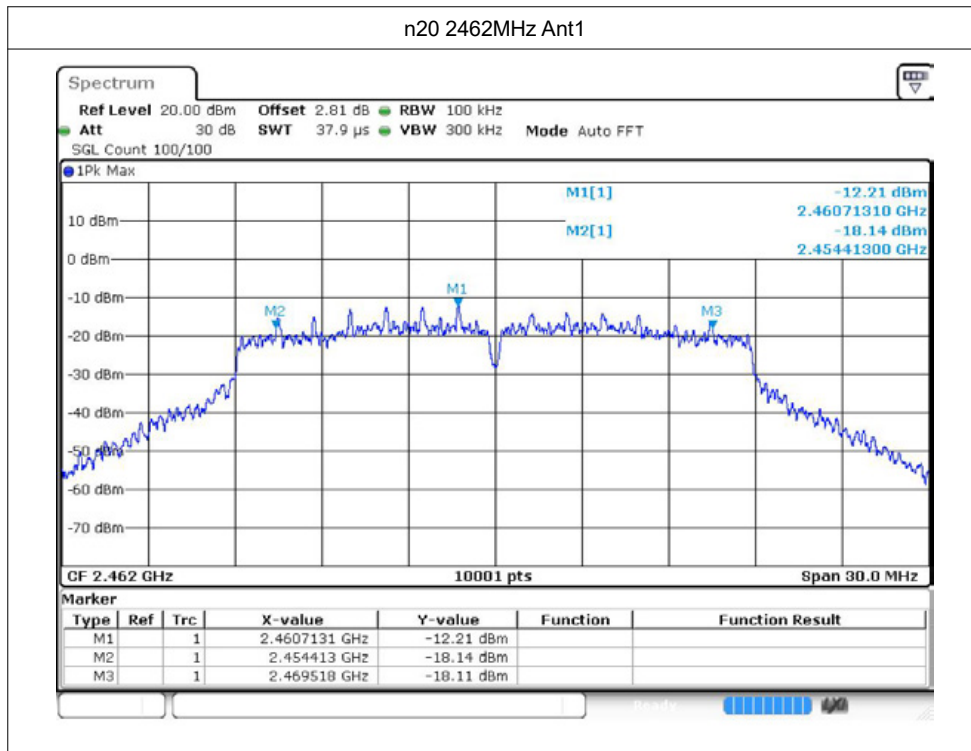


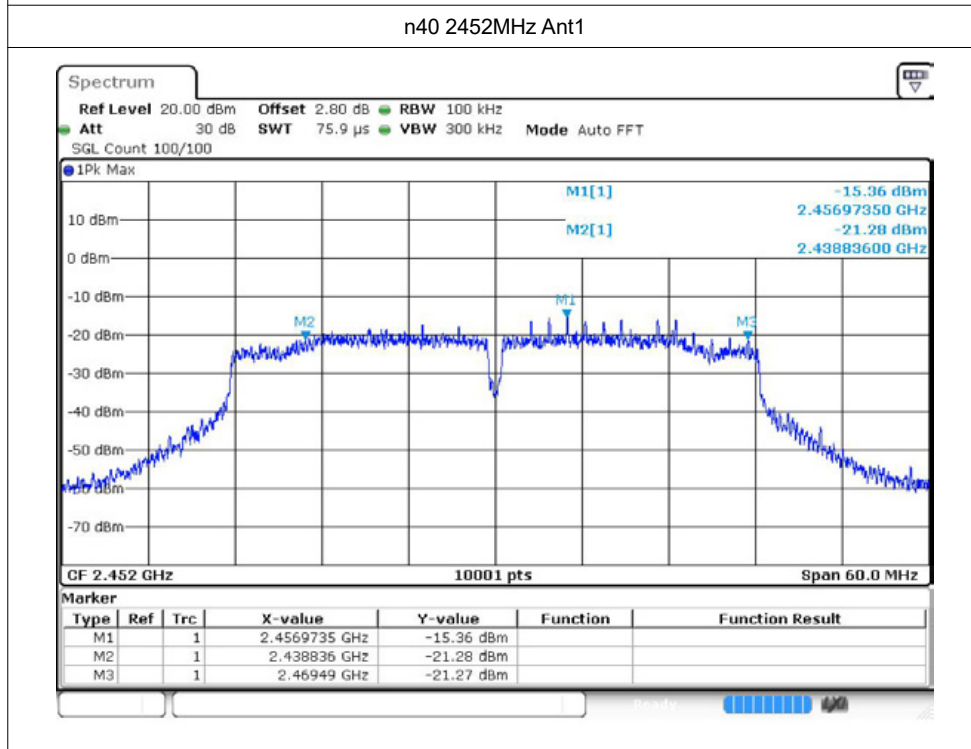
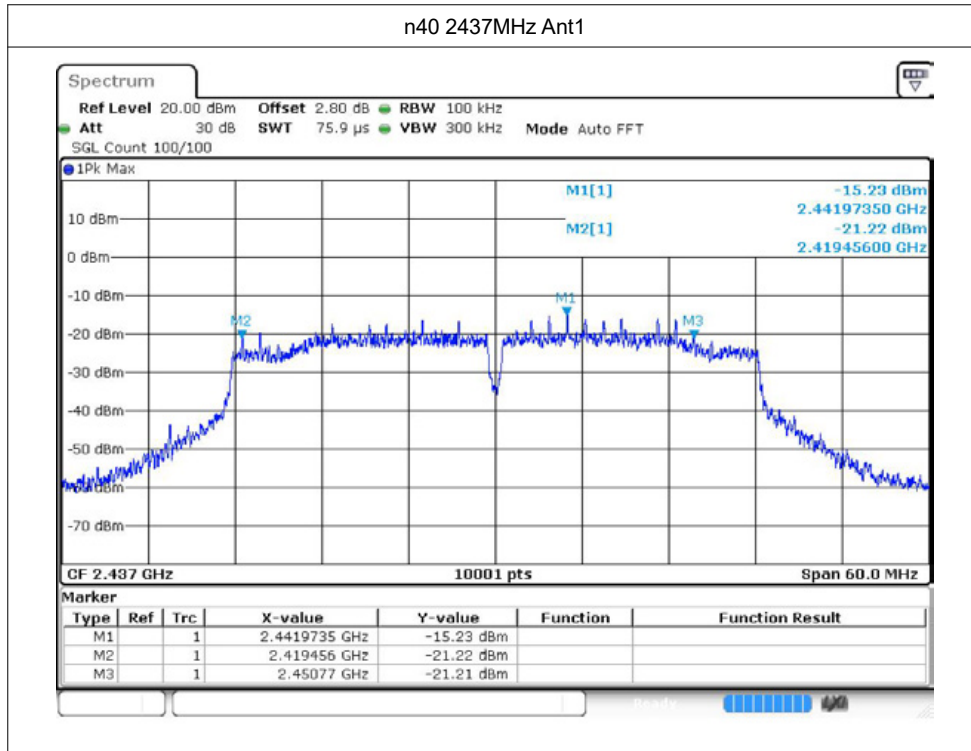




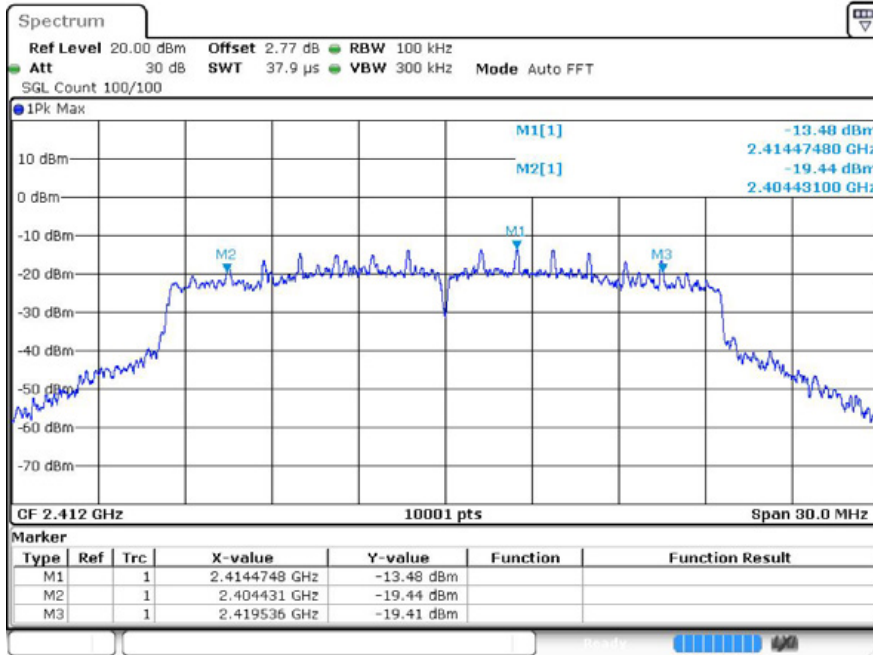


n20 2437MHz Ant1

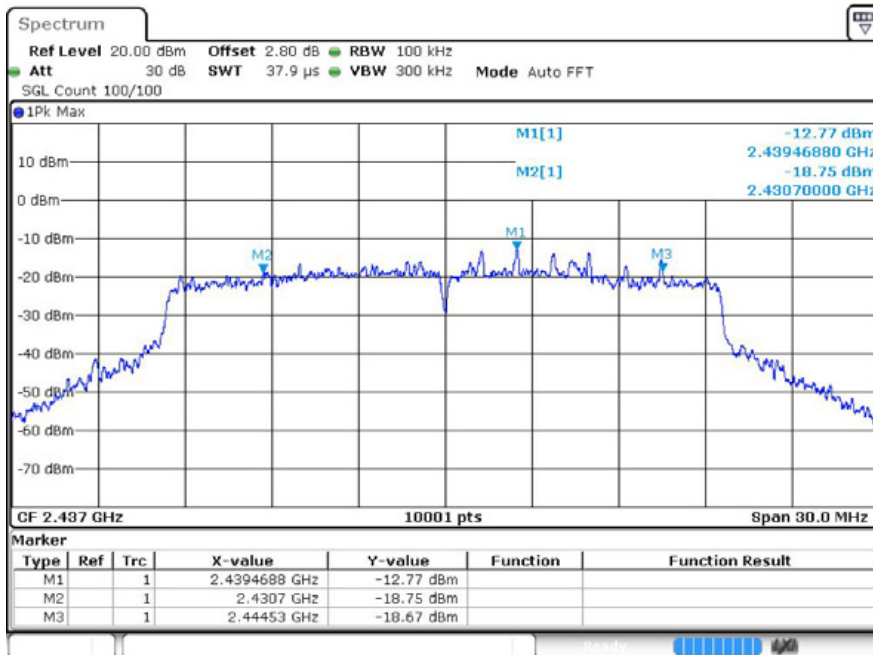


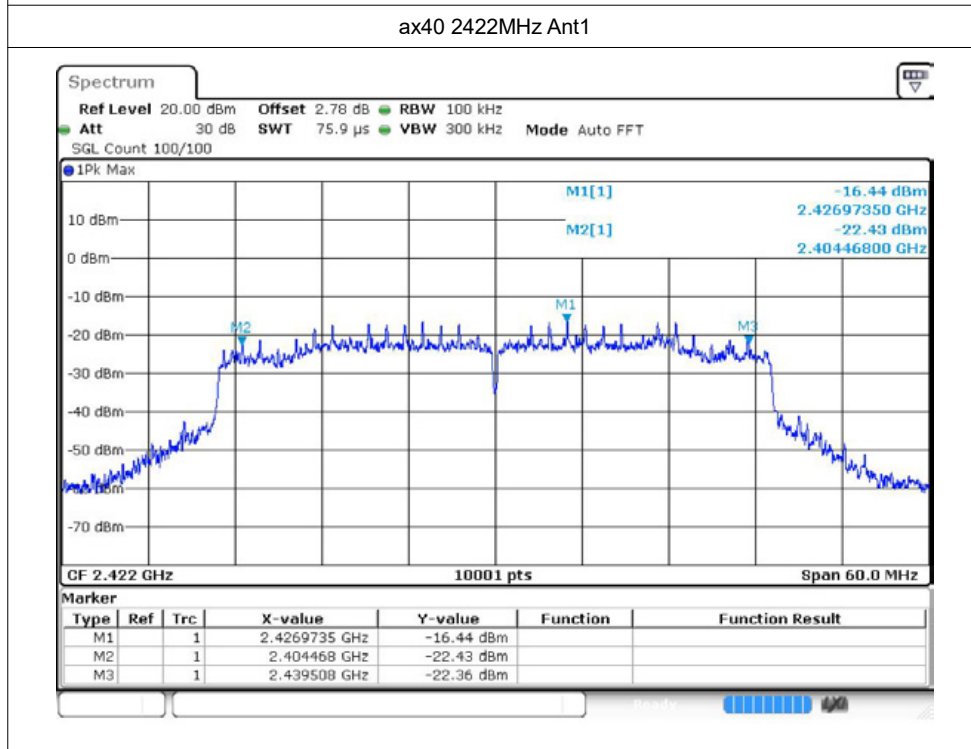
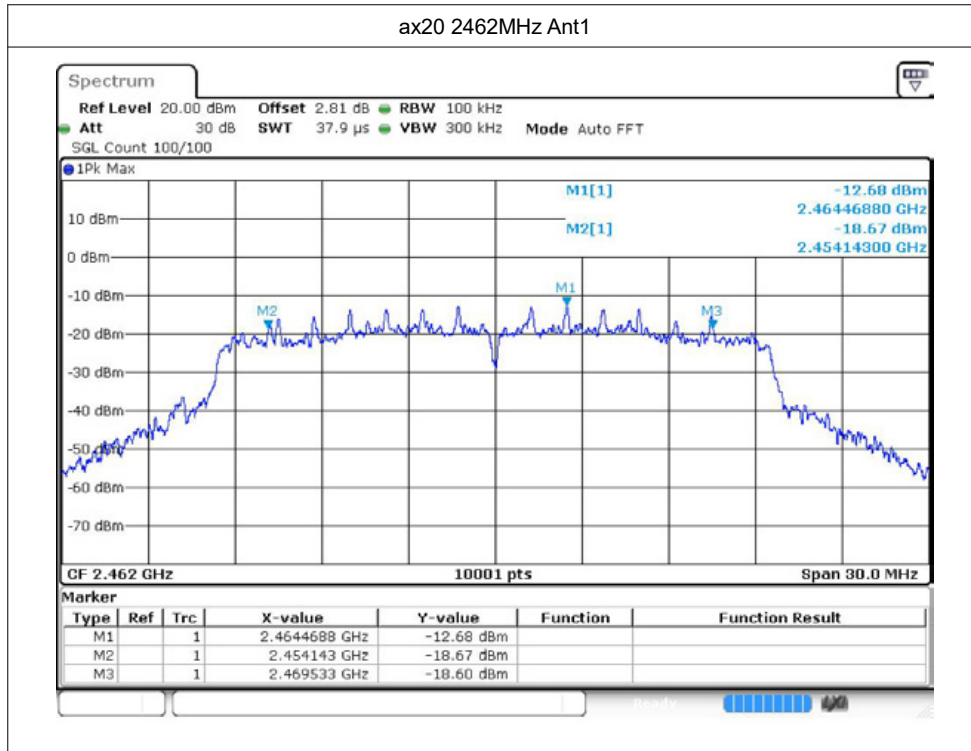


ax20 2412MHz Ant1

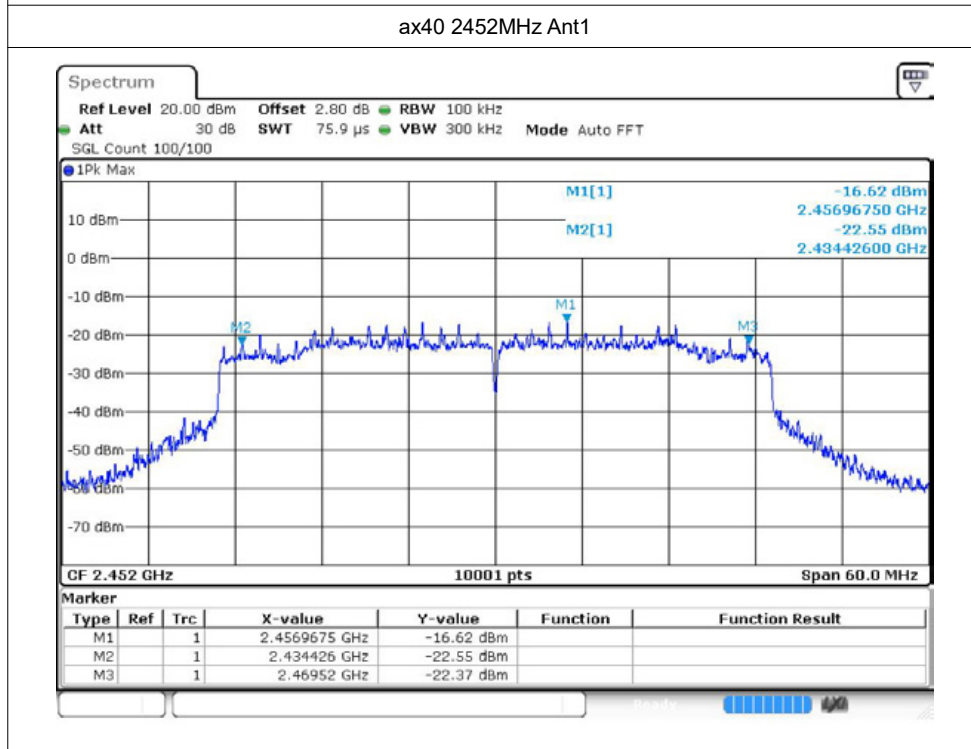
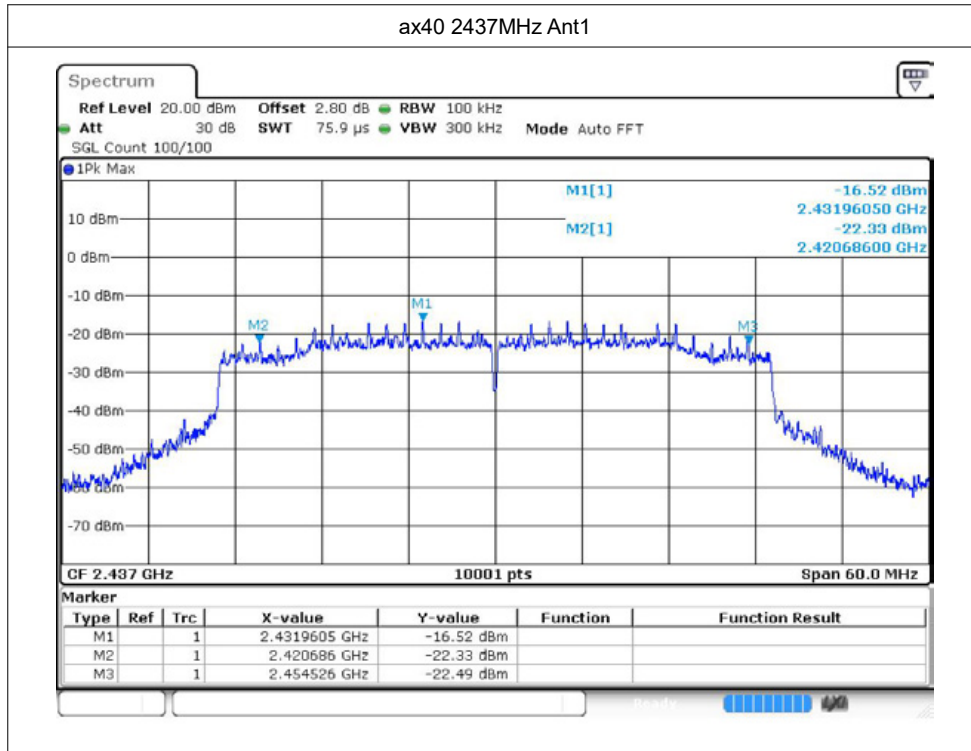


ax20 2437MHz Ant1

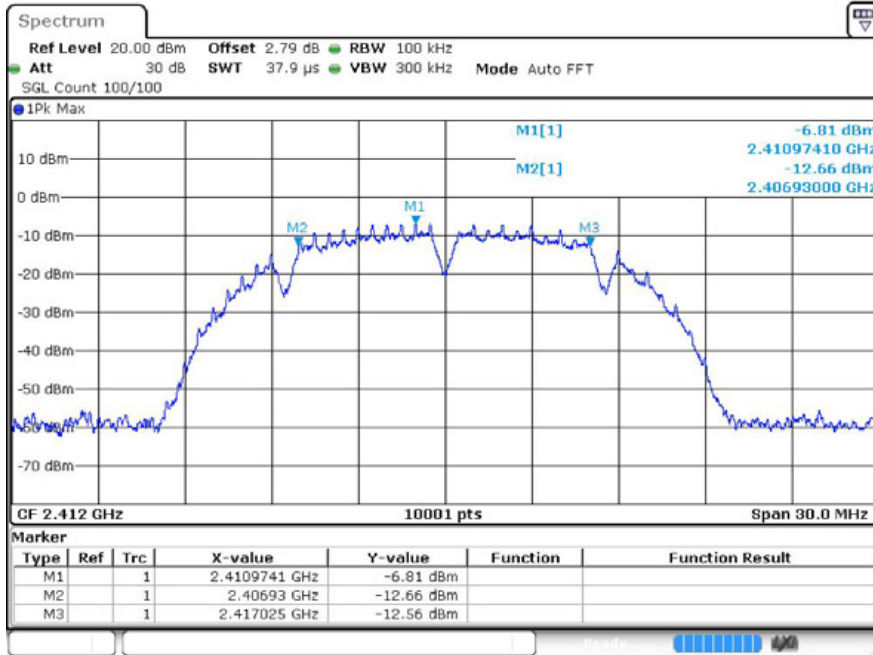








b 2412MHz Ant2



b 2437MHz Ant2

