



## Appendix C

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

Product Name: AUTOMOTIVE DIAGNOSIS SYSTEM,COMPREHENSIVE TPMS TOOL

Trade Mark: AUTEL

Test Model: MaxiCheck MX900-TS

#### Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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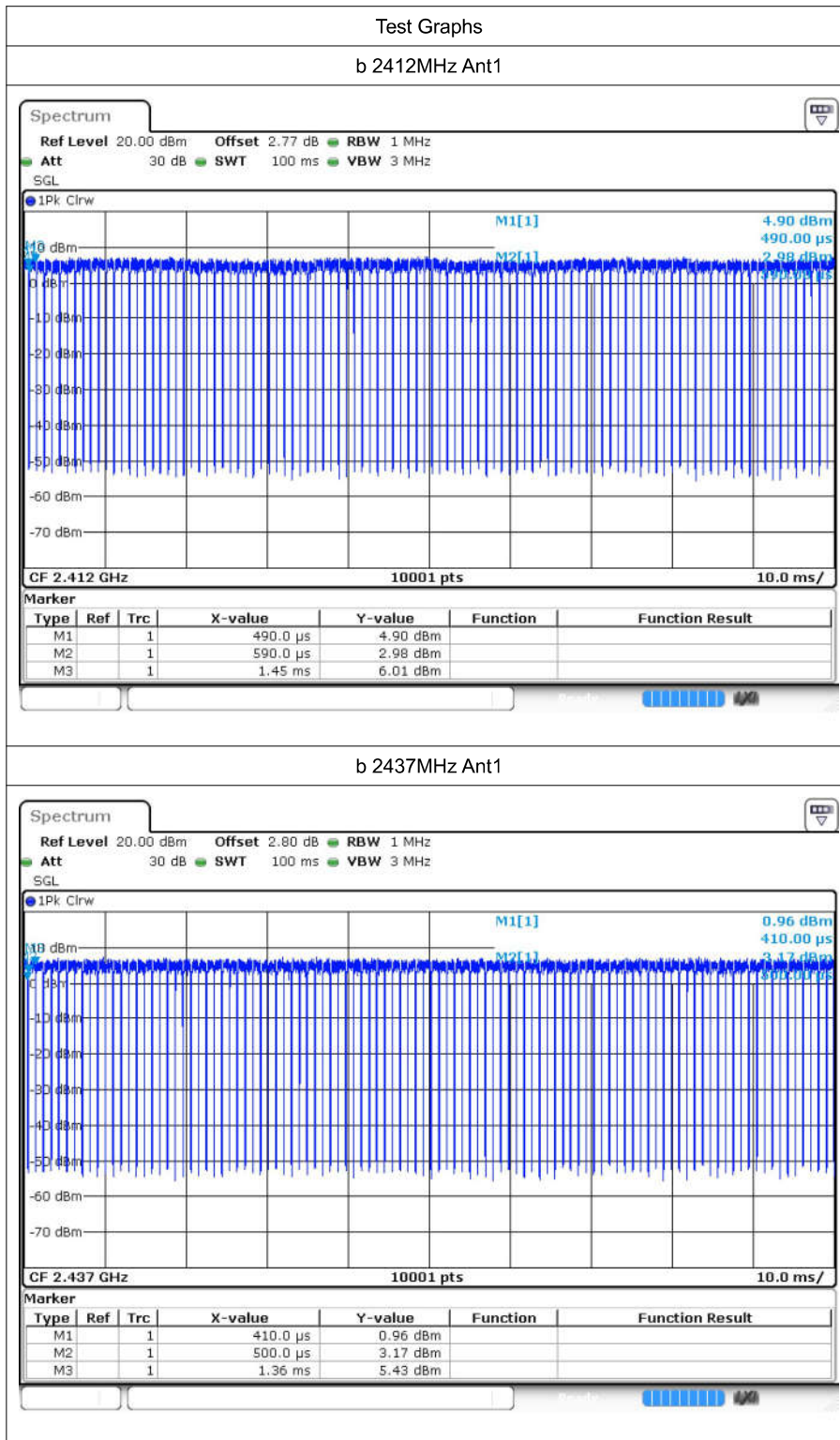
# 1 Duty Cycle

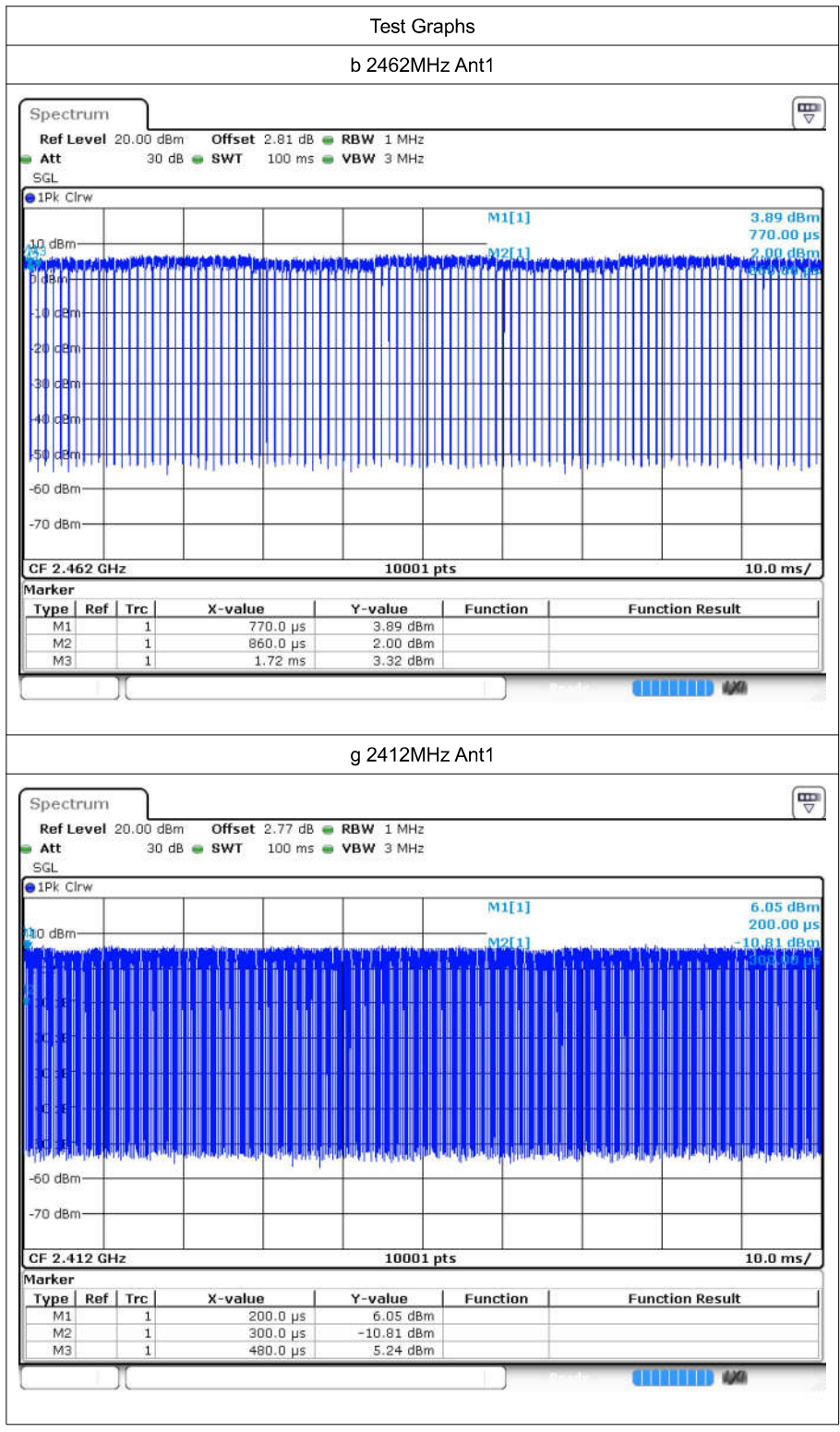
## 1.1 Test Result

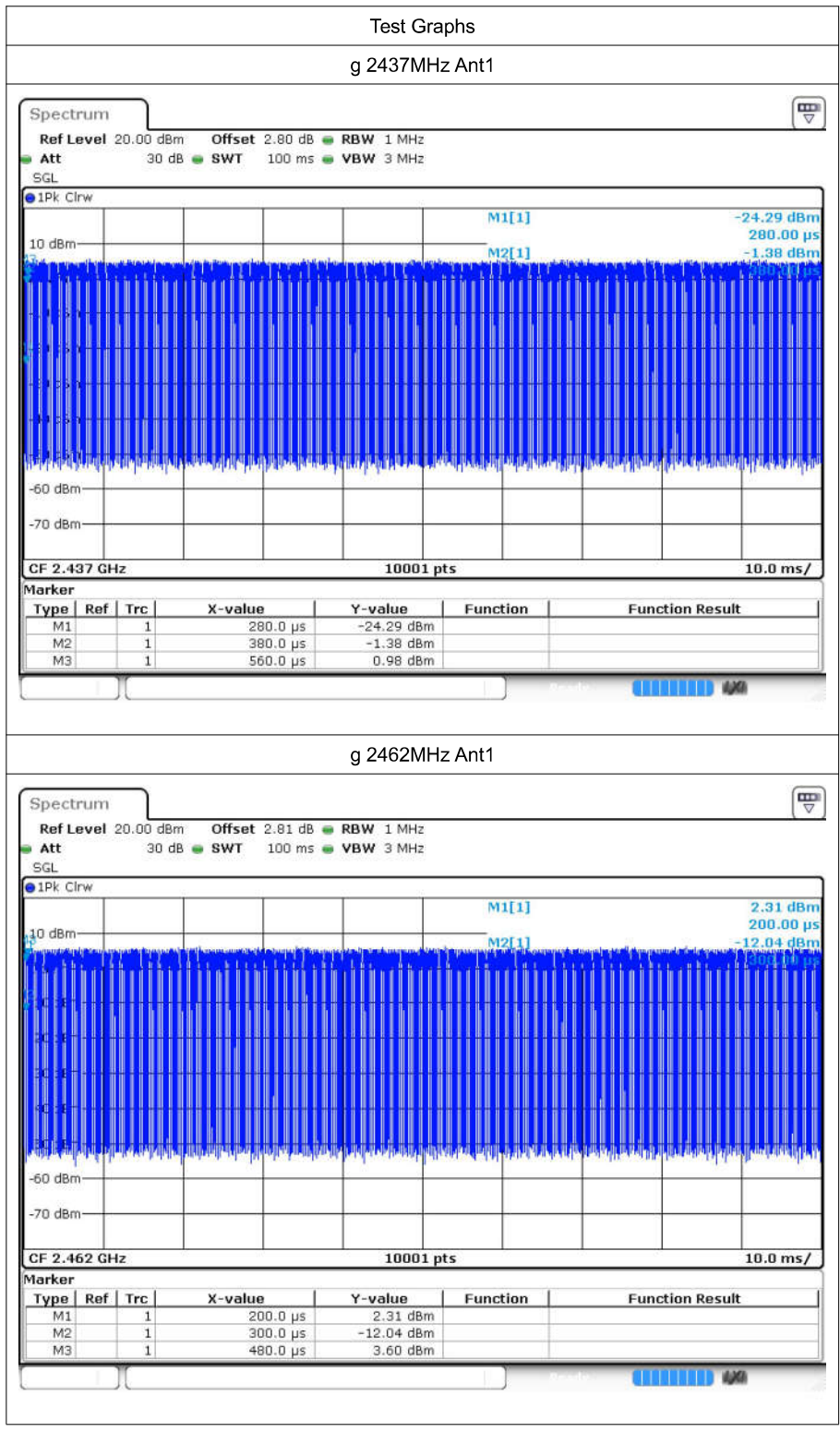
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	91.23	1.16
b	2437	Ant1	91.12	1.16
b	2462	Ant1	91.25	1.16
g	2412	Ant1	67.63	5.56
g	2437	Ant1	67.57	5.56
g	2462	Ant1	67.61	5.56
n20	2412	Ant1	66.21	5.88
n20	2437	Ant1	66.2	5.88
n20	2462	Ant1	66.17	5.88
n40	2422	Ant1	54.52	10
n40	2437	Ant1	53.03	11.11
n40	2452	Ant1	52.83	11.11

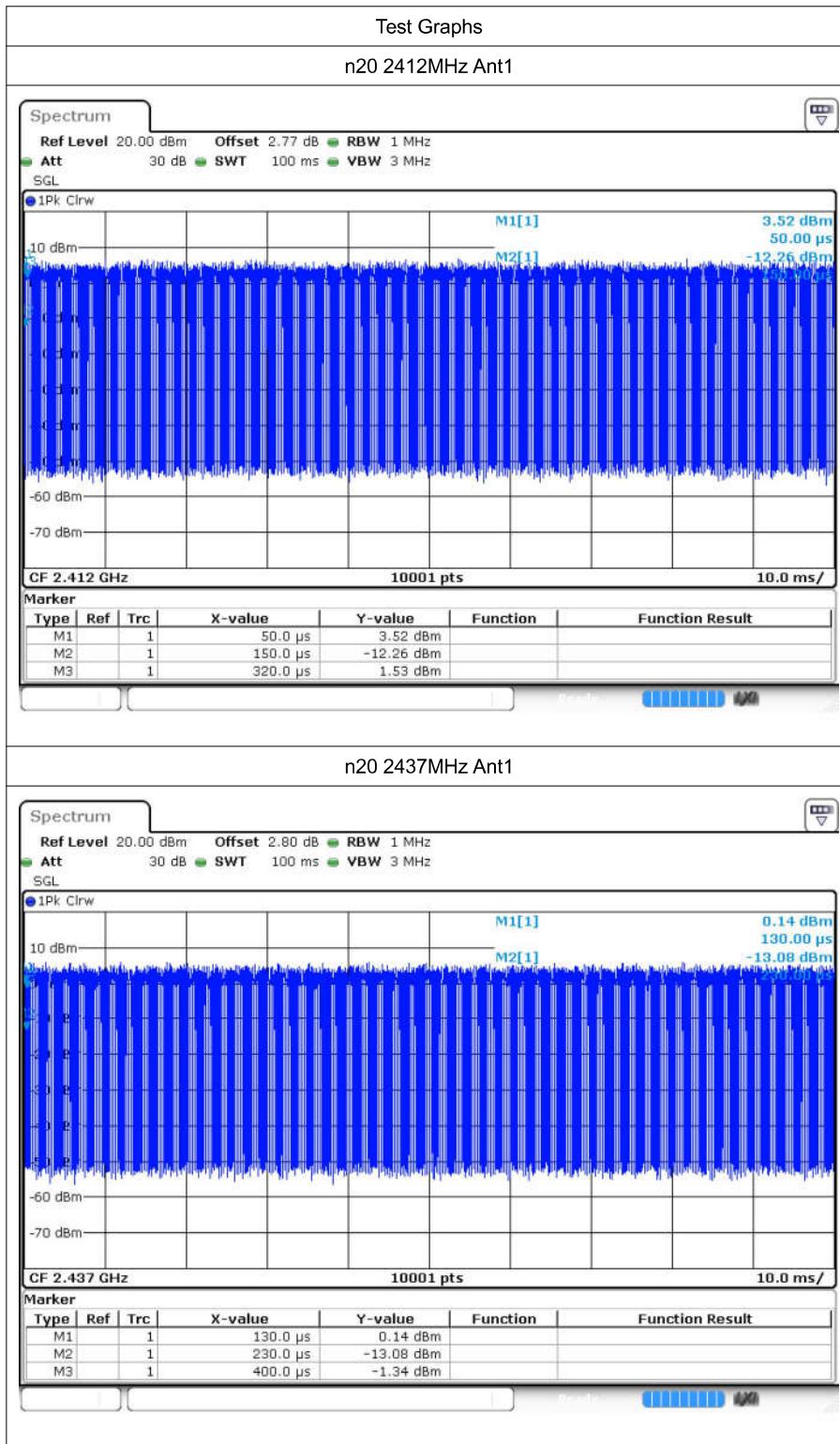


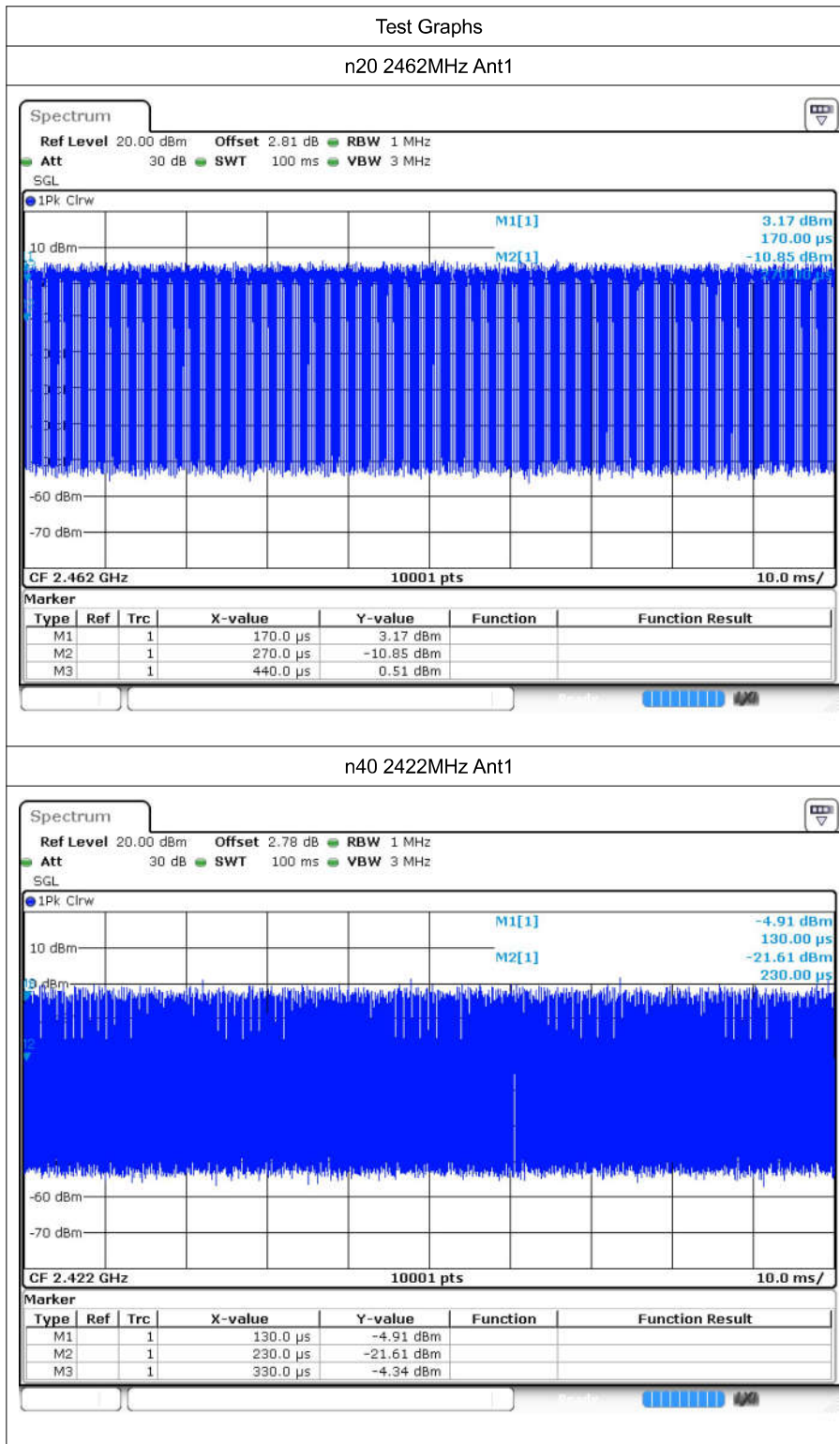
## 1.2 Test Graphs



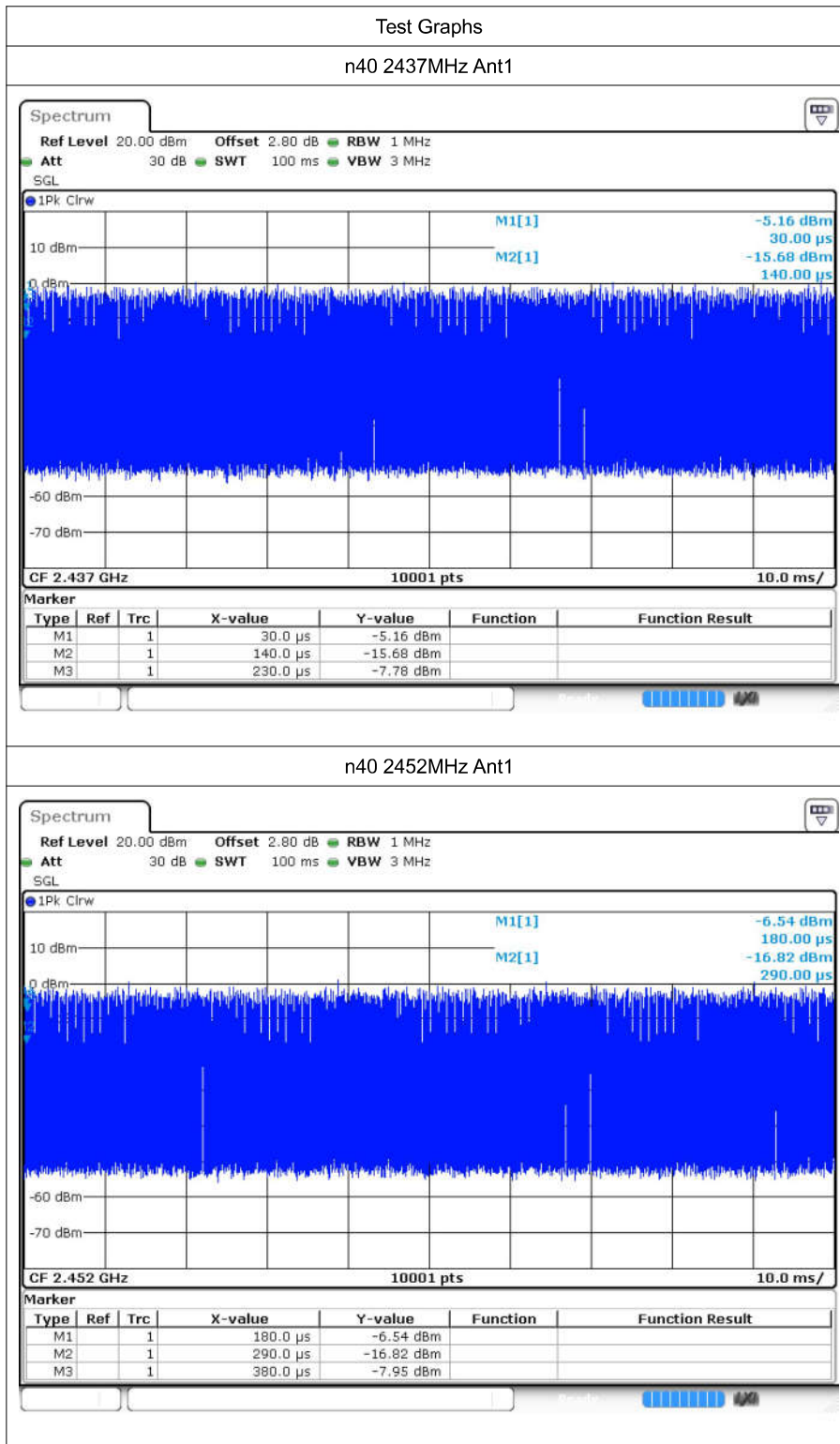














## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	15.24	30	Pass
b	2437	Ant1	15.16	30	Pass
b	2462	Ant1	15.07	30	Pass
g	2412	Ant1	14.56	30	Pass
g	2437	Ant1	14.38	30	Pass
g	2462	Ant1	14.22	30	Pass
n20	2412	Ant1	14.26	30	Pass
n20	2437	Ant1	14.16	30	Pass
n20	2462	Ant1	14.02	30	Pass
n40	2422	Ant1	14.45	30	Pass
n40	2437	Ant1	14.23	30	Pass
n40	2452	Ant1	13.98	30	Pass



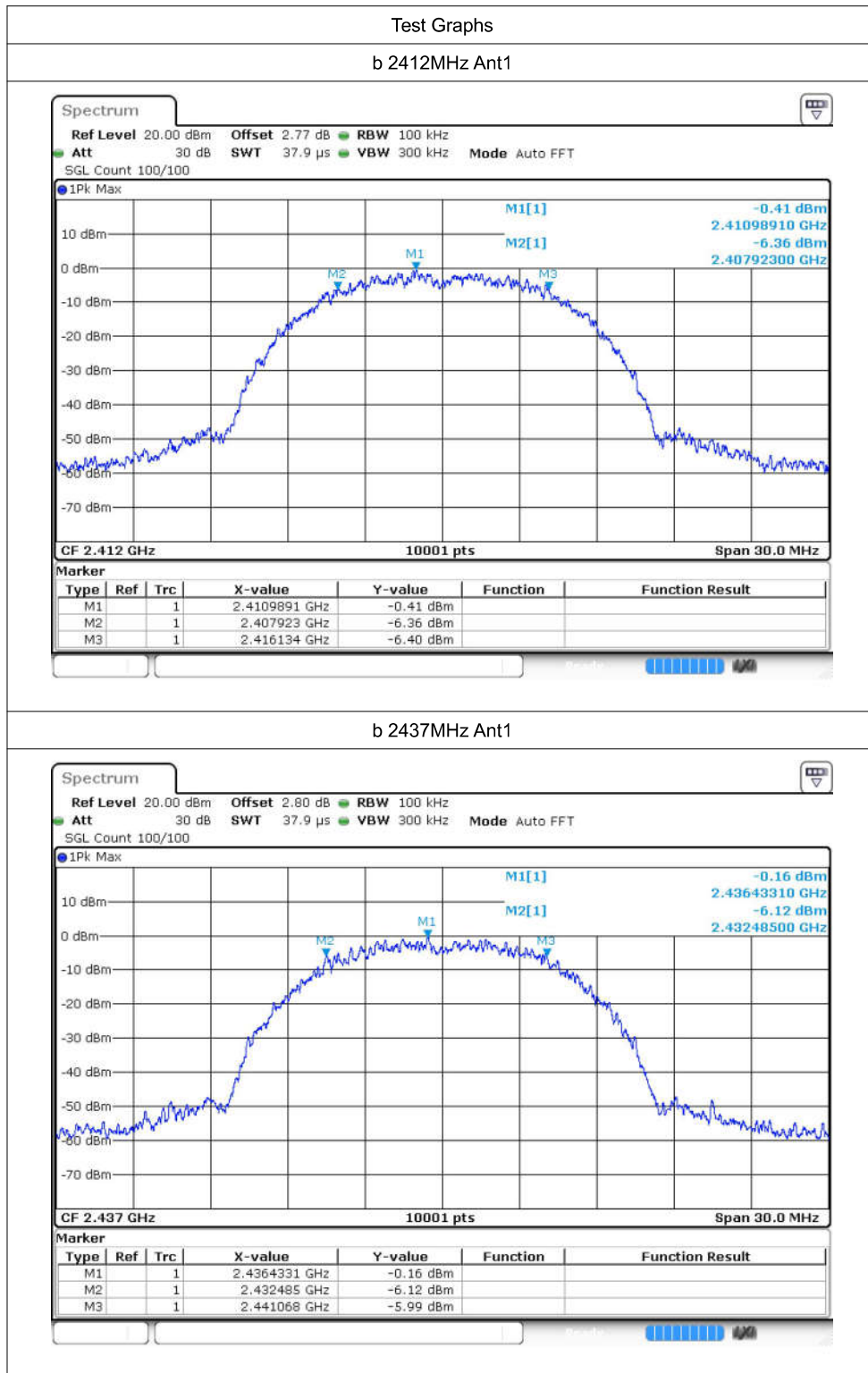
### 3 -6dB Bandwidth

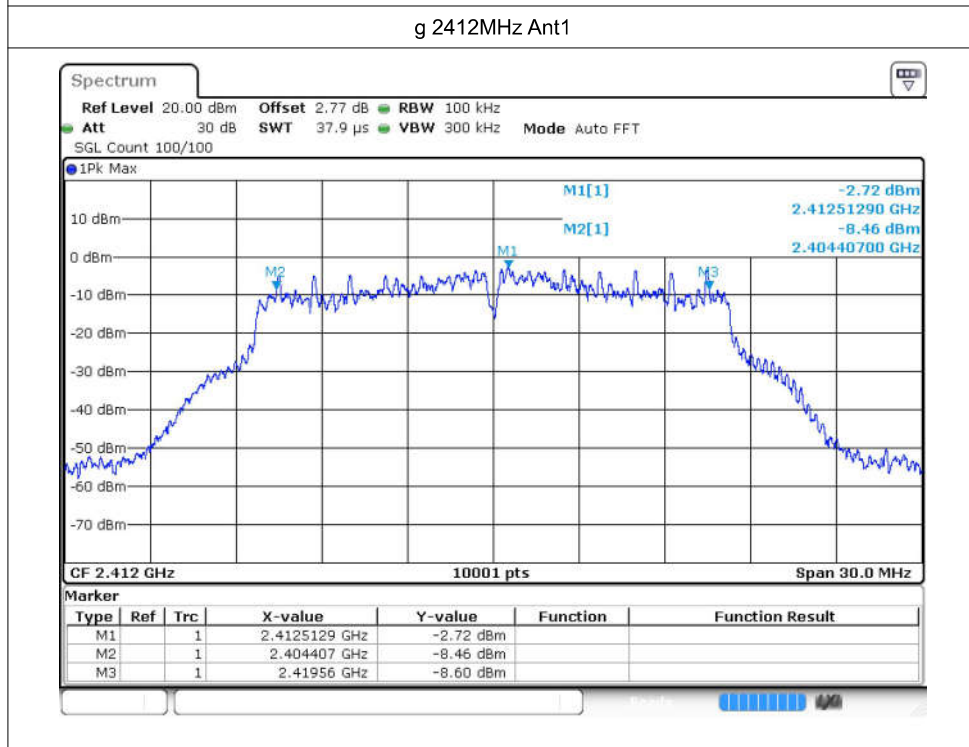
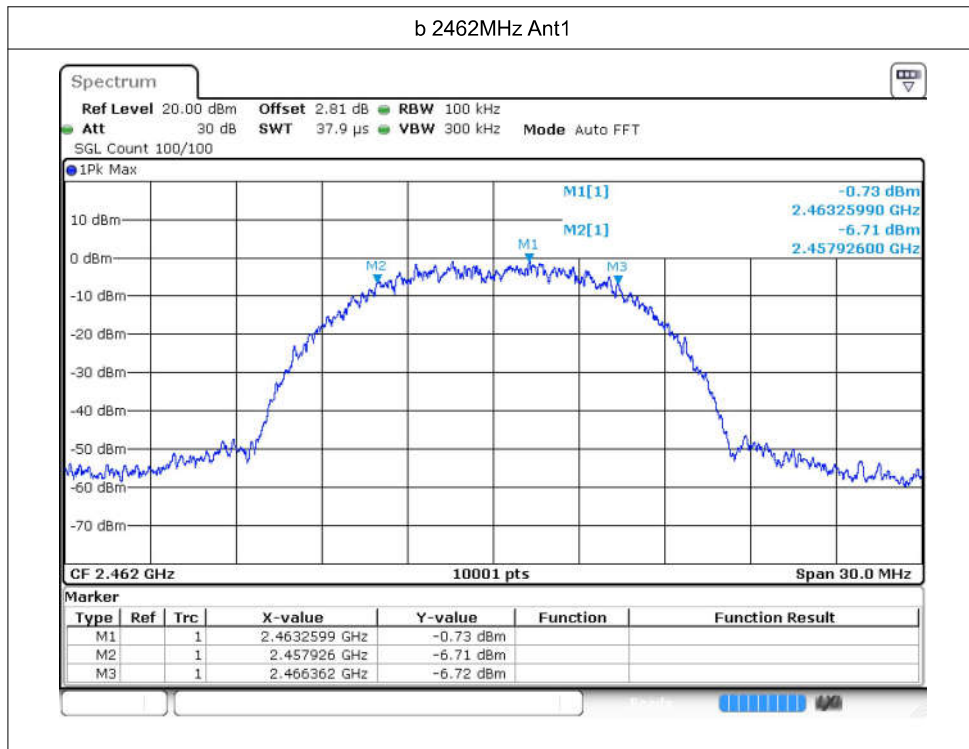
#### 3.1 Test Result

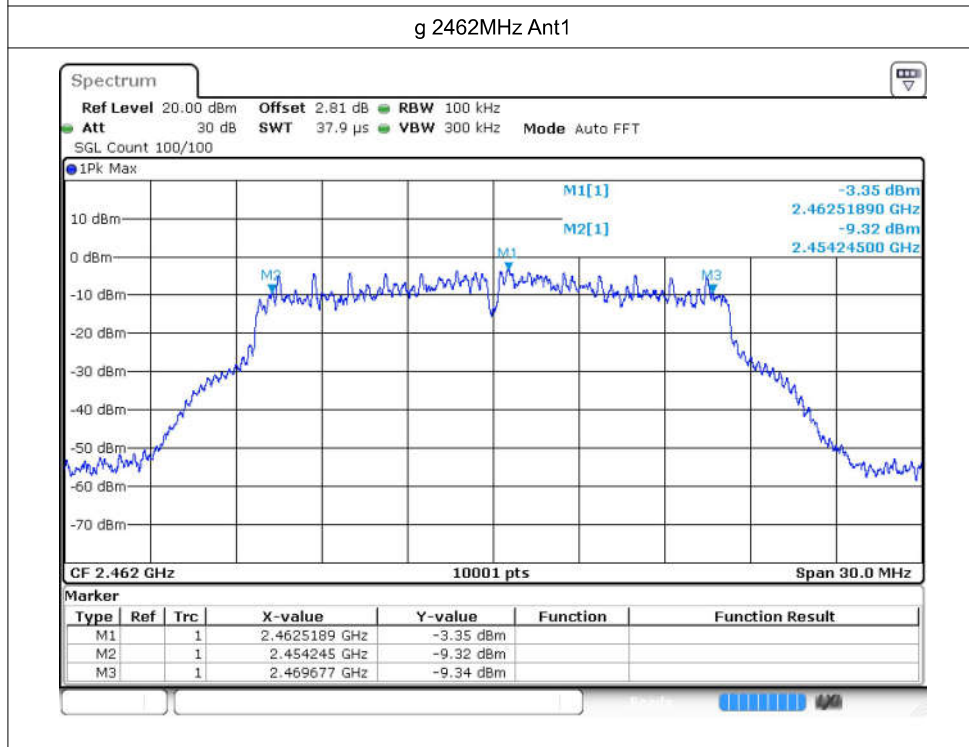
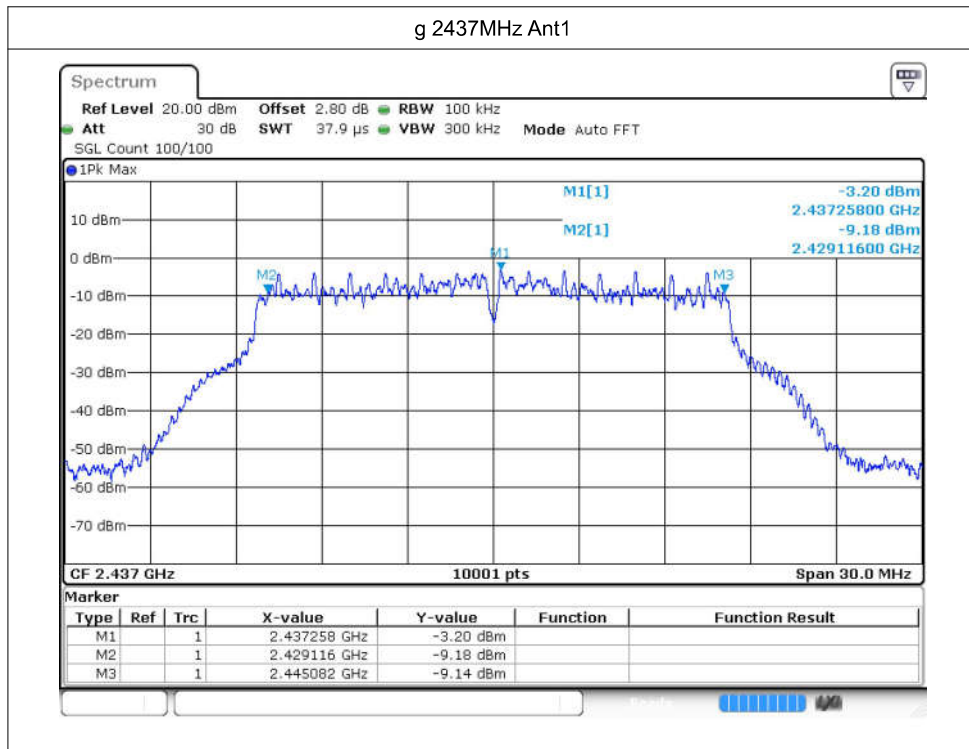
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.211	0.5	Pass
b	2437	Ant1	8.583	0.5	Pass
b	2462	Ant1	8.436	0.5	Pass
g	2412	Ant1	15.153	0.5	Pass
g	2437	Ant1	15.966	0.5	Pass
g	2462	Ant1	15.432	0.5	Pass
n20	2412	Ant1	15.435	0.5	Pass
n20	2437	Ant1	17.379	0.5	Pass
n20	2462	Ant1	15.156	0.5	Pass
n40	2422	Ant1	35.418	0.5	Pass
n40	2437	Ant1	36.162	0.5	Pass
n40	2452	Ant1	36.342	0.5	Pass

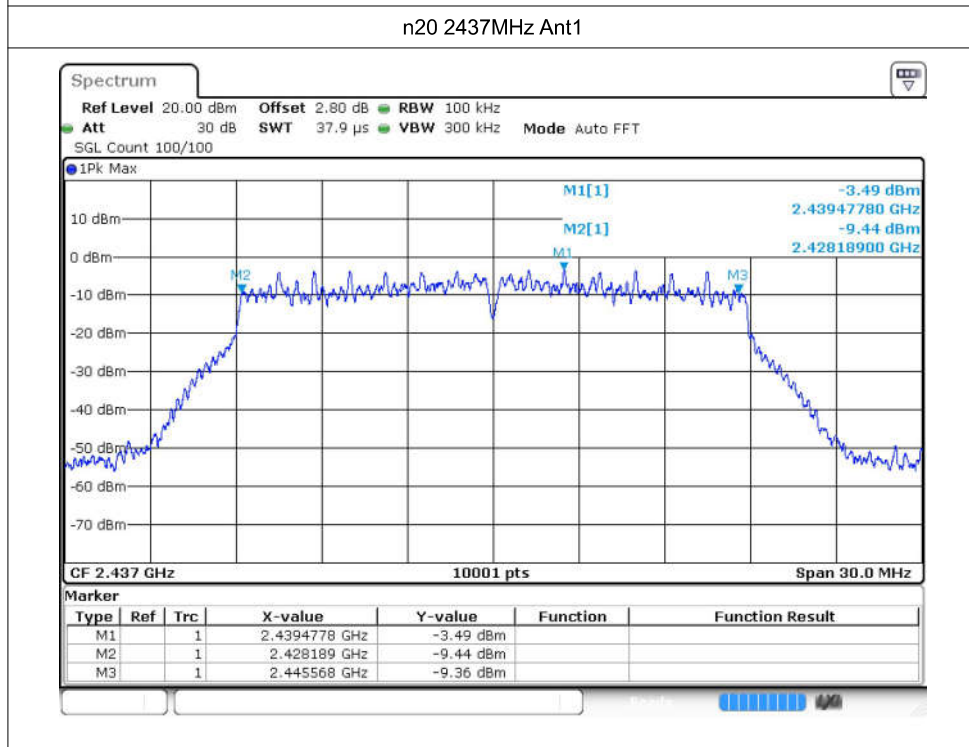
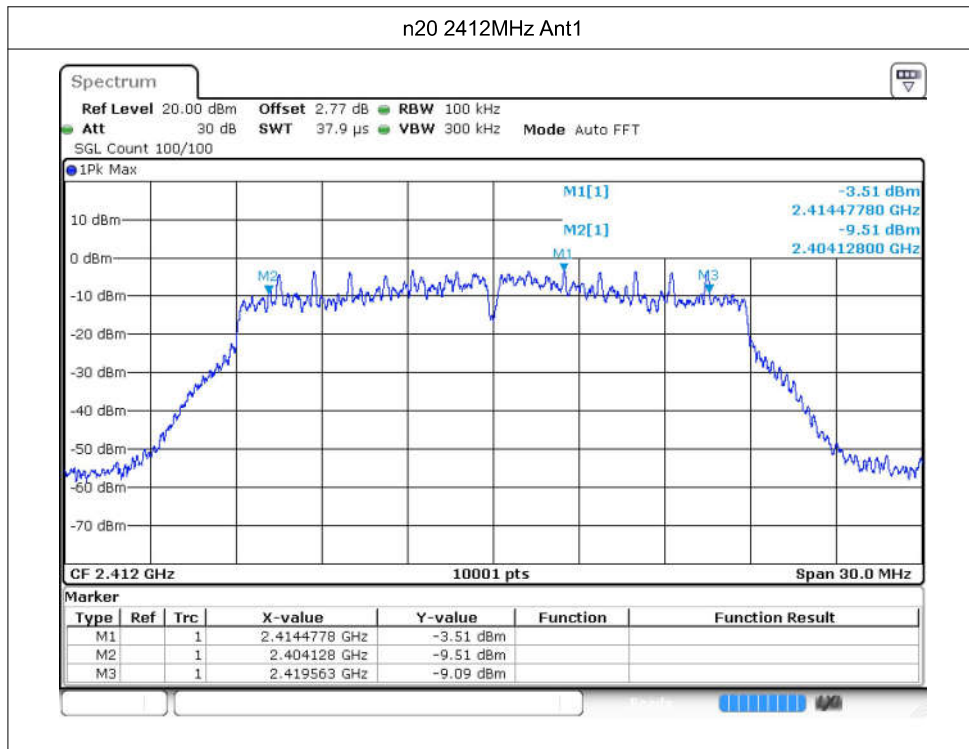


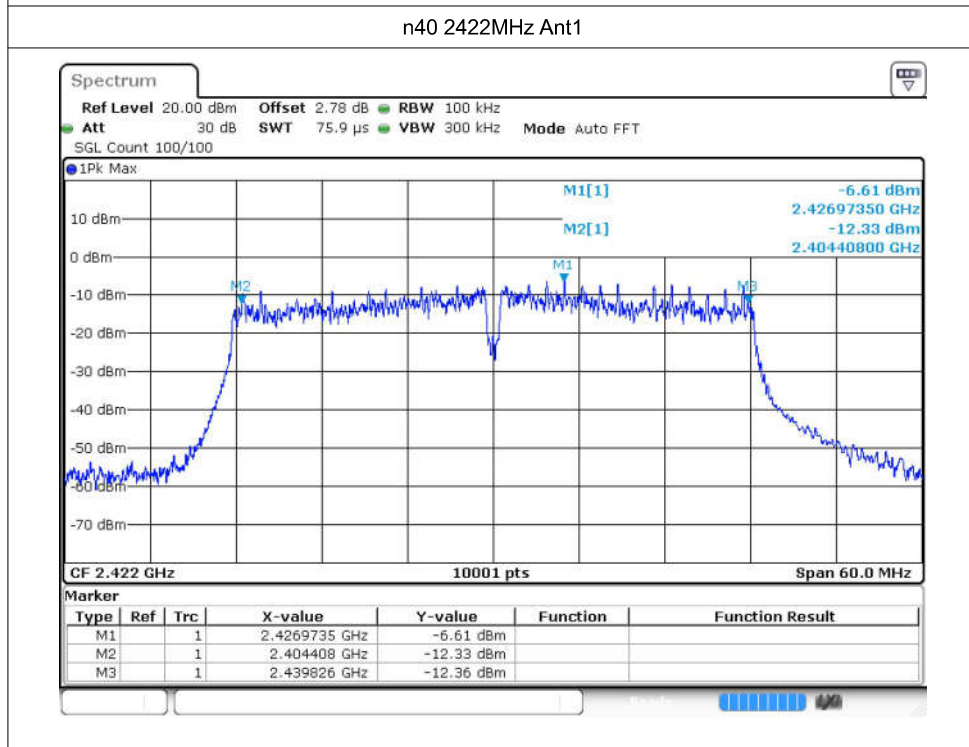
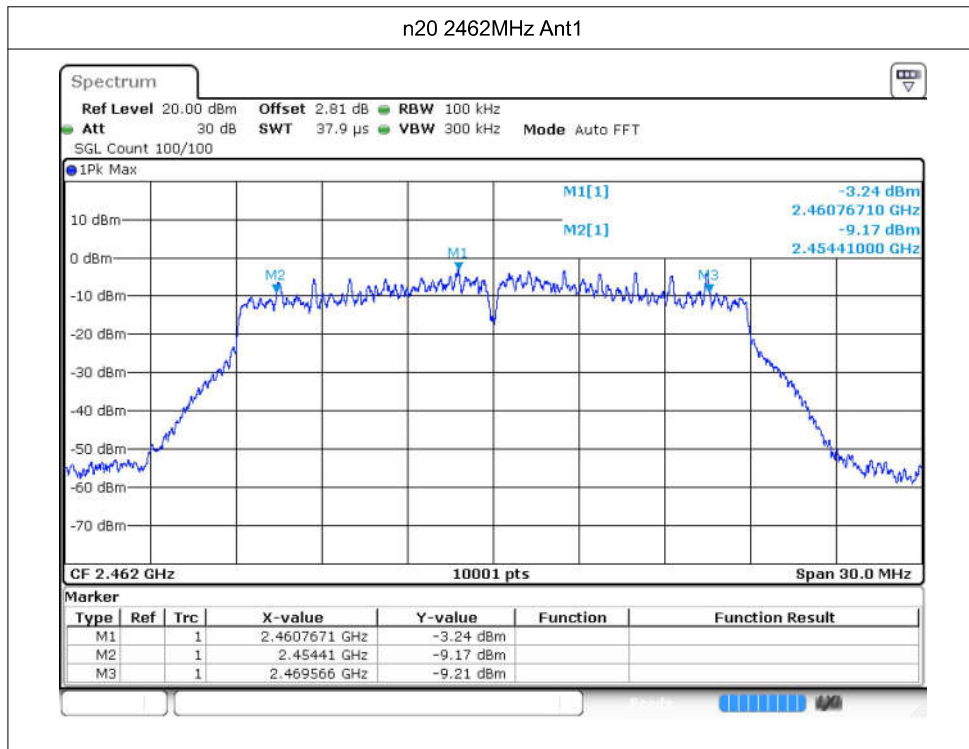
### 3.2 Test Graphs



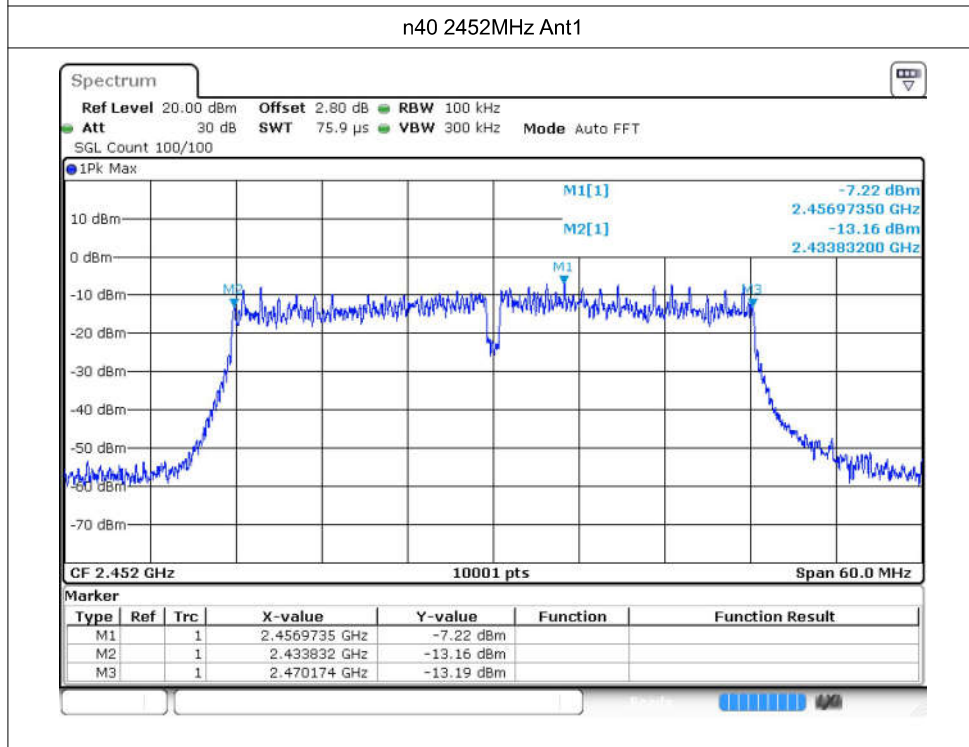
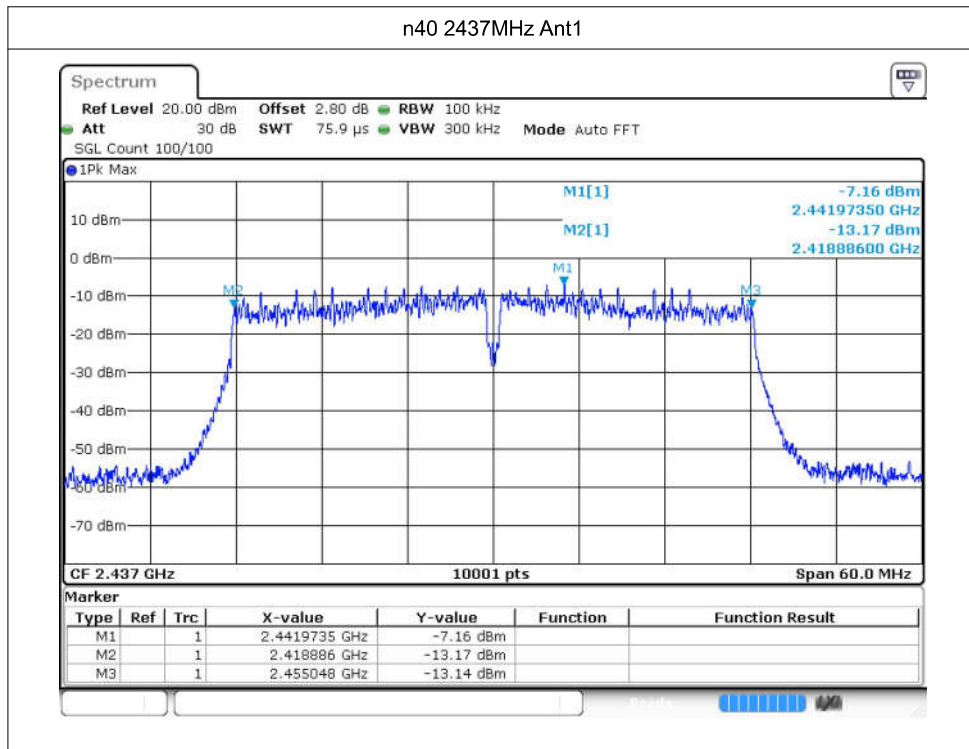














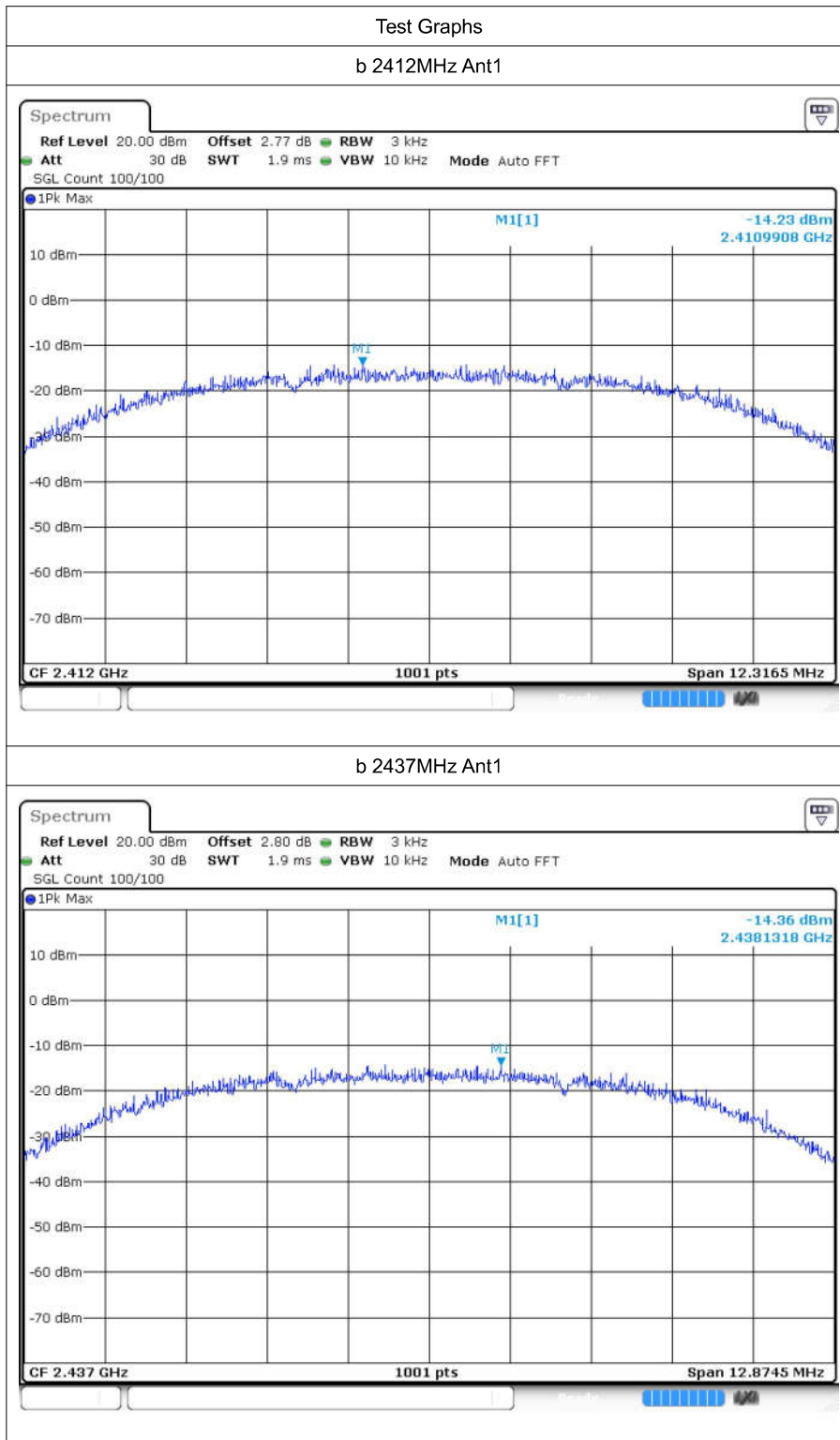
## 4 Maximum Power Spectral Density Level

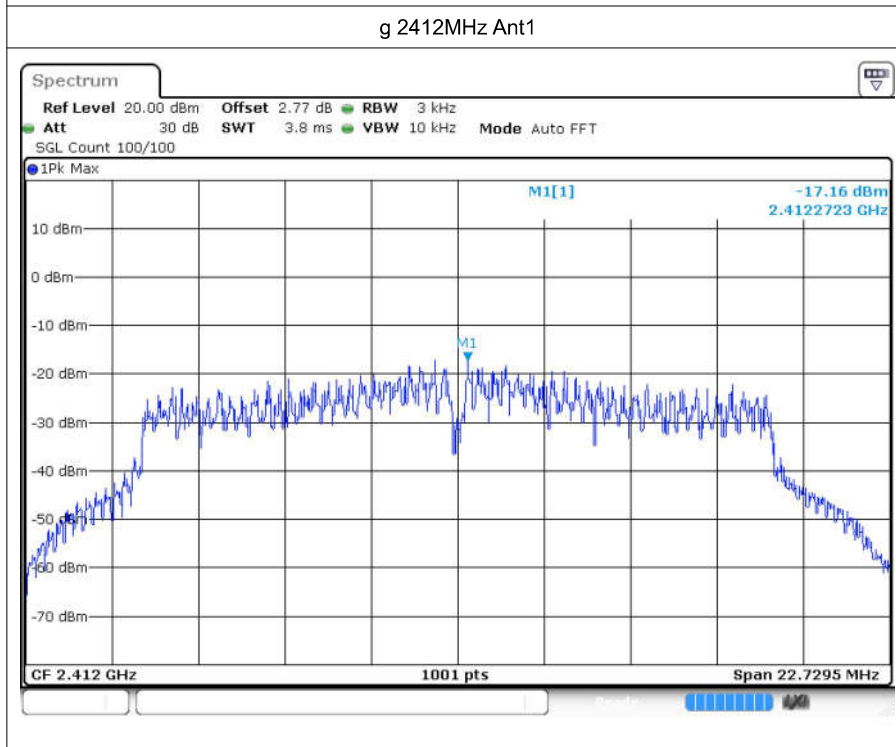
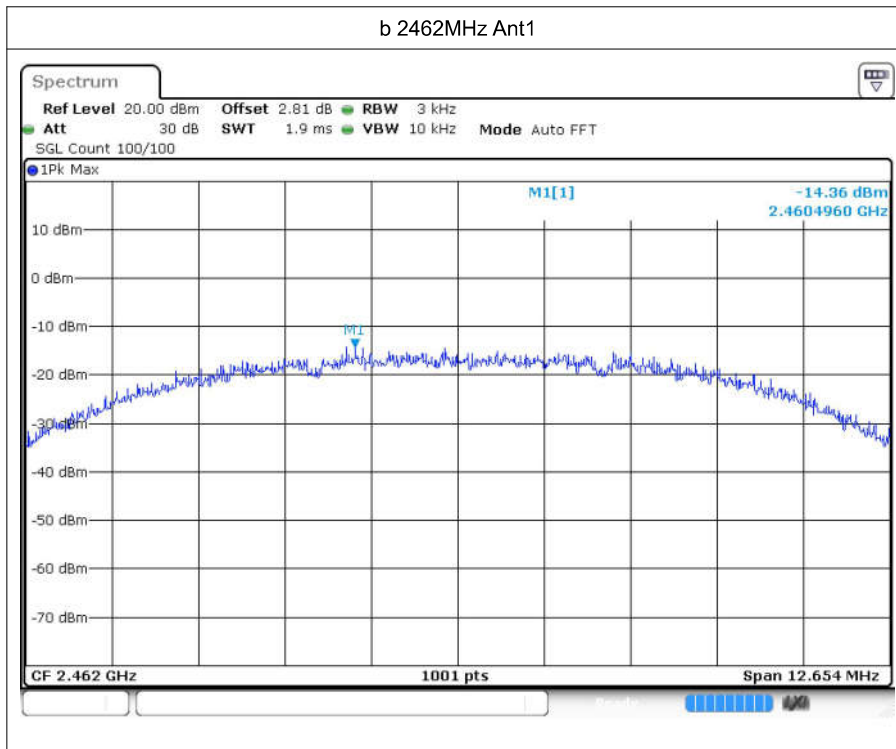
### 4.1 Test Result

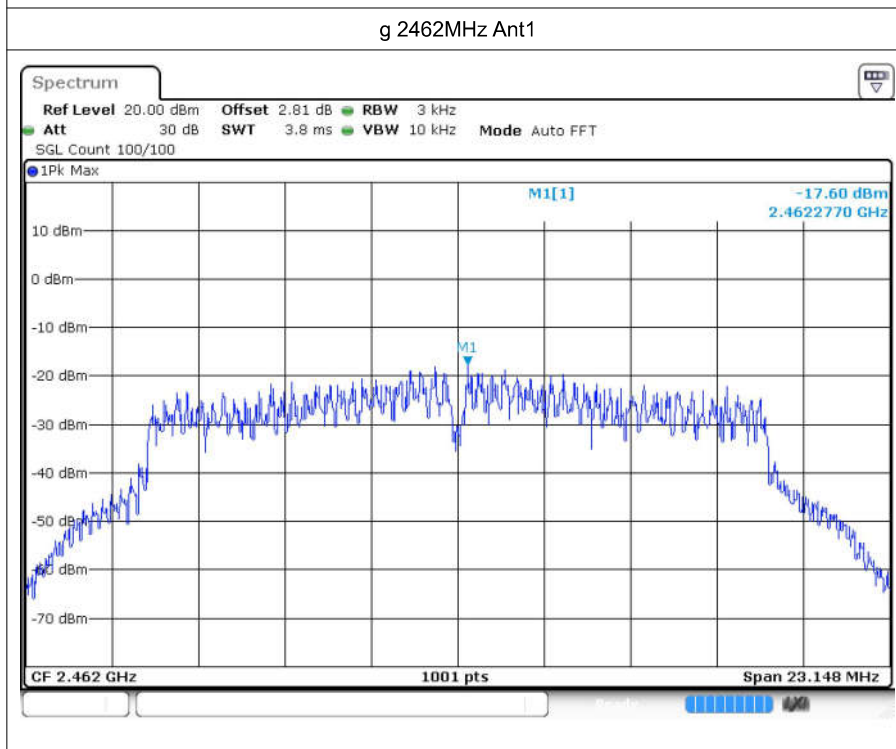
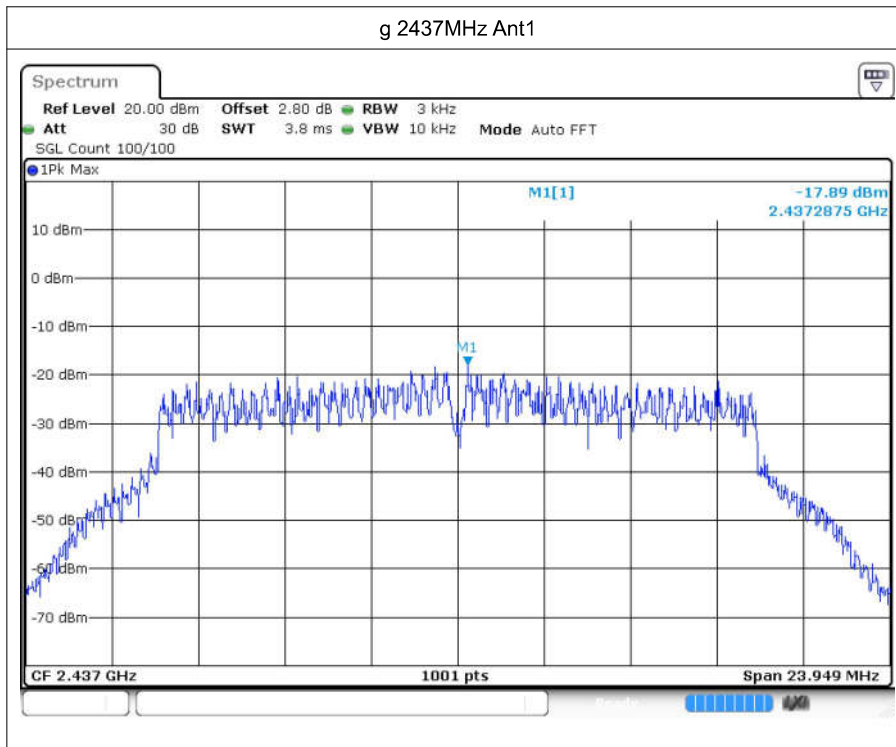
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-14.23	≤8	Pass
b	2437	Ant1	-14.36	≤8	Pass
b	2462	Ant1	-14.36	≤8	Pass
g	2412	Ant1	-17.16	≤8	Pass
g	2437	Ant1	-17.89	≤8	Pass
g	2462	Ant1	-17.6	≤8	Pass
n20	2412	Ant1	-16.28	≤8	Pass
n20	2437	Ant1	-17.11	≤8	Pass
n20	2462	Ant1	-16.52	≤8	Pass
n40	2422	Ant1	-22.59	≤8	Pass
n40	2437	Ant1	-22.38	≤8	Pass
n40	2452	Ant1	-22.61	≤8	Pass

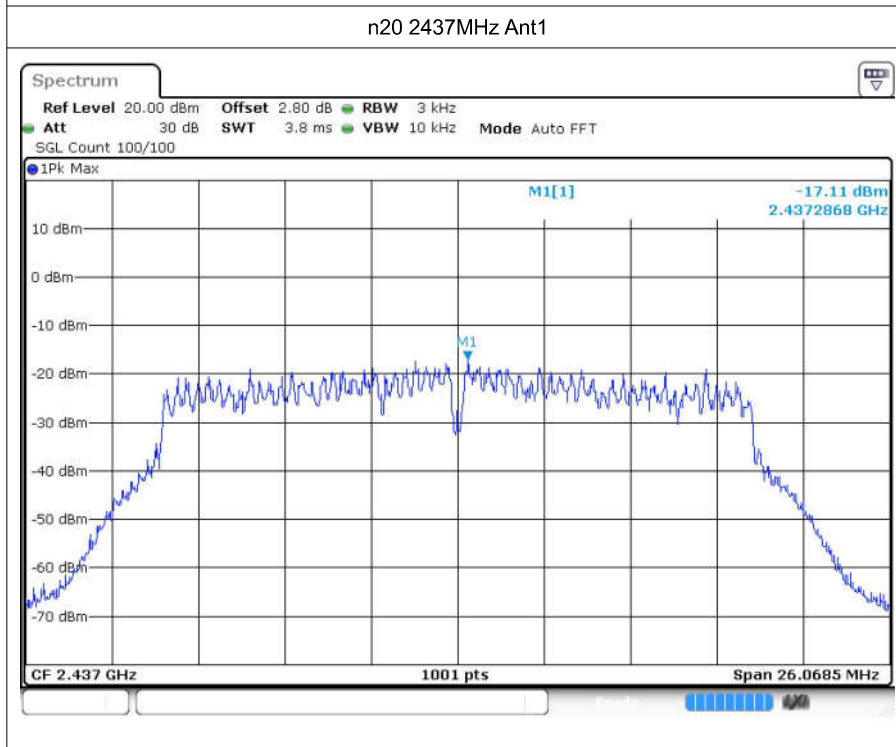
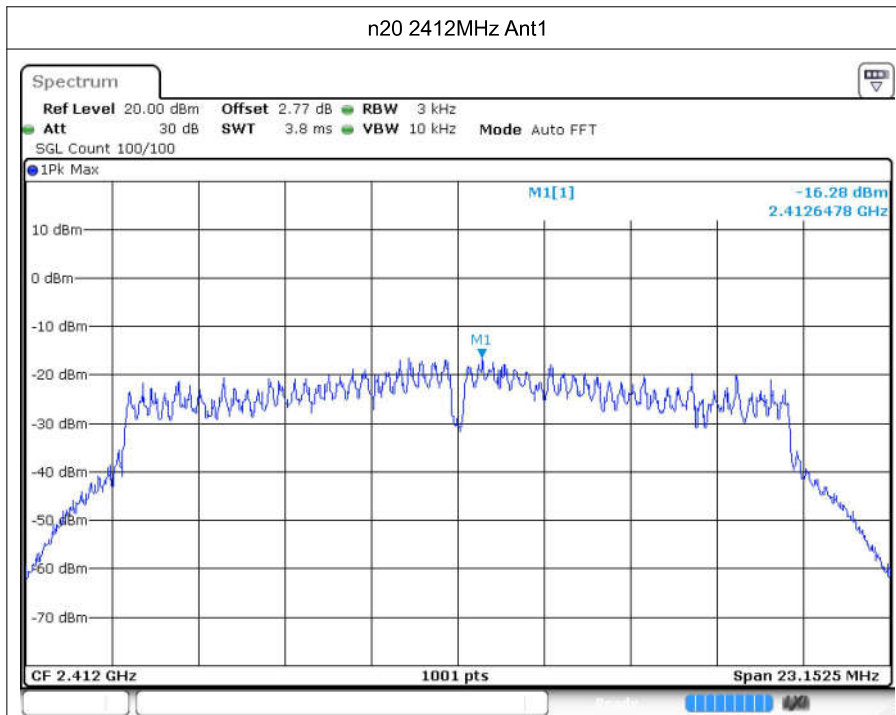


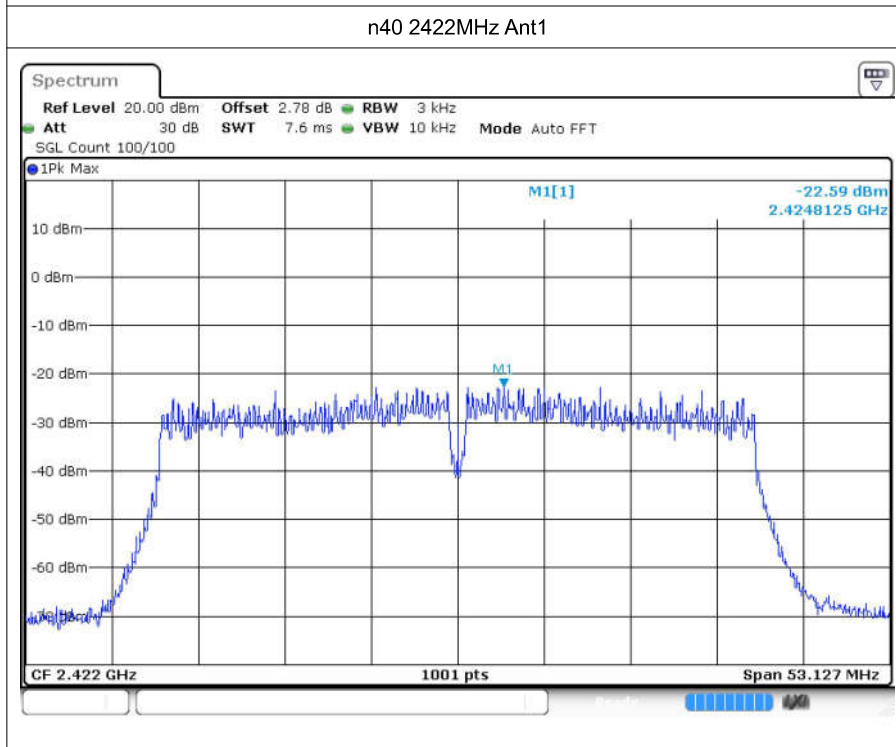
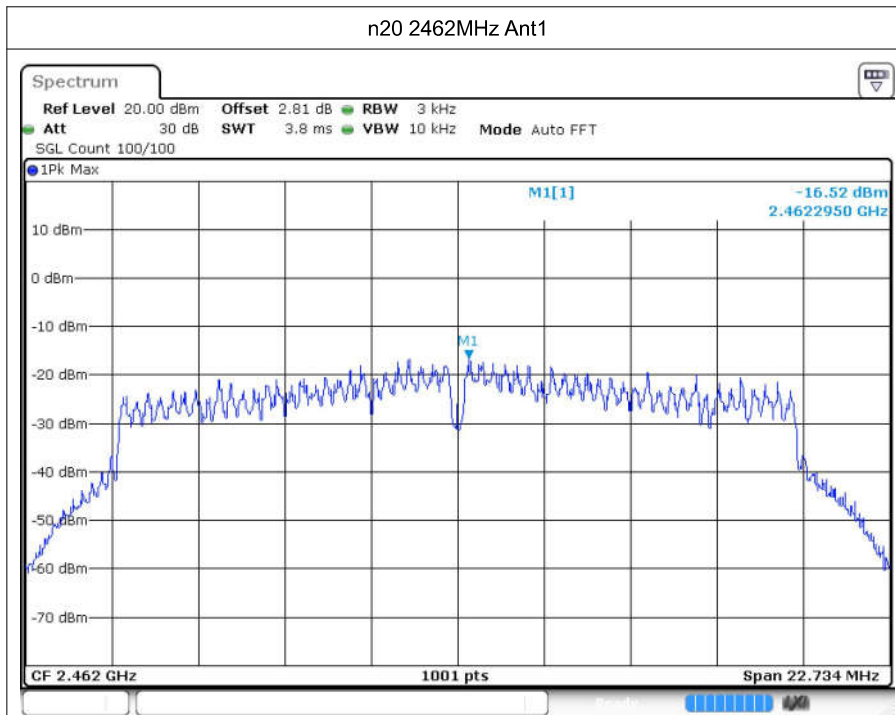
## 4.2 Test Graphs

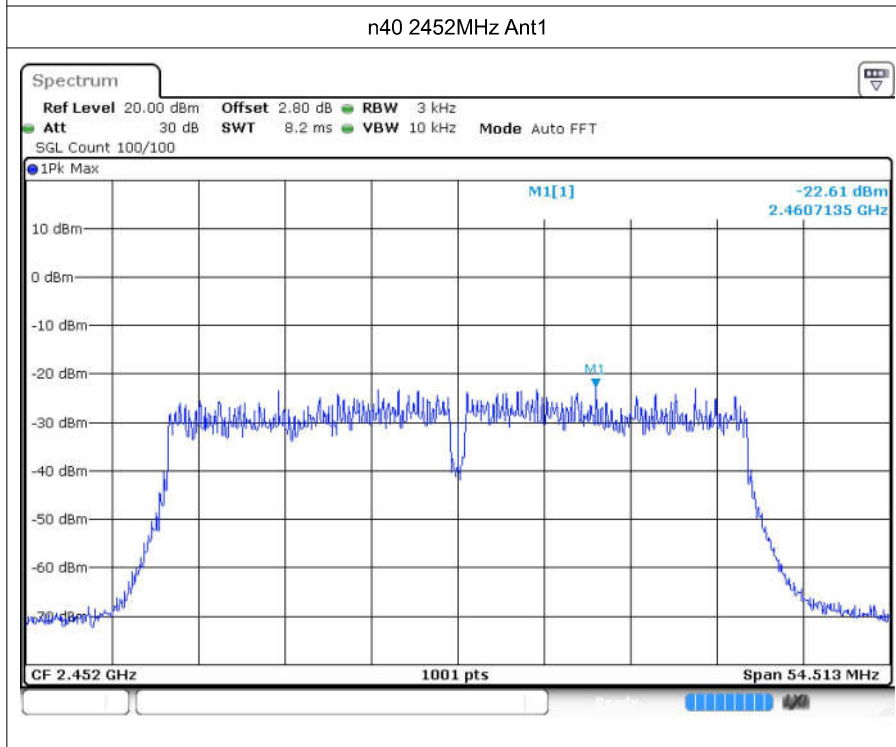
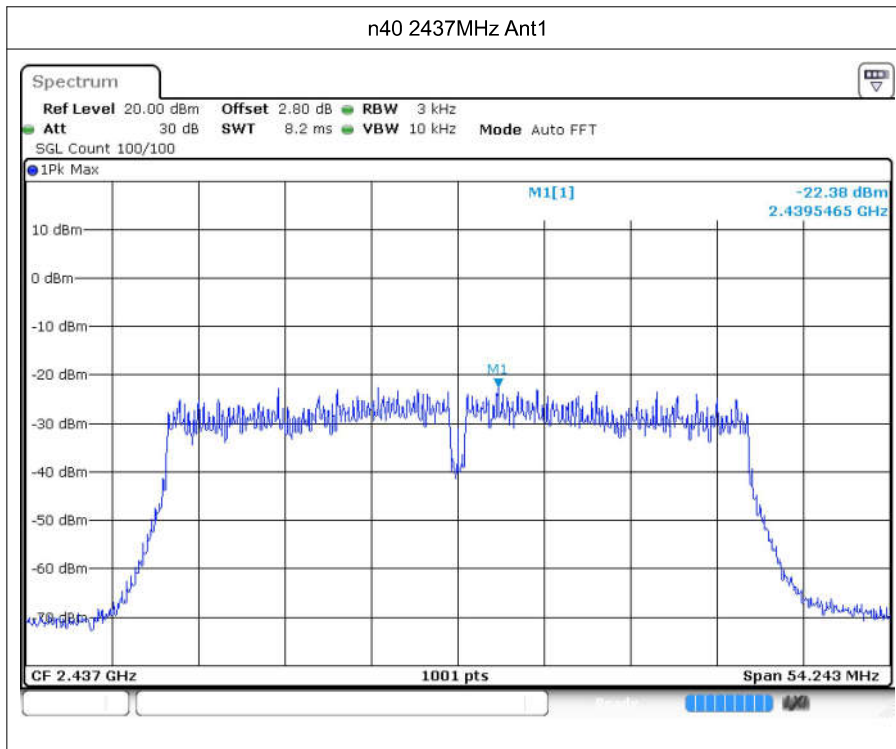
















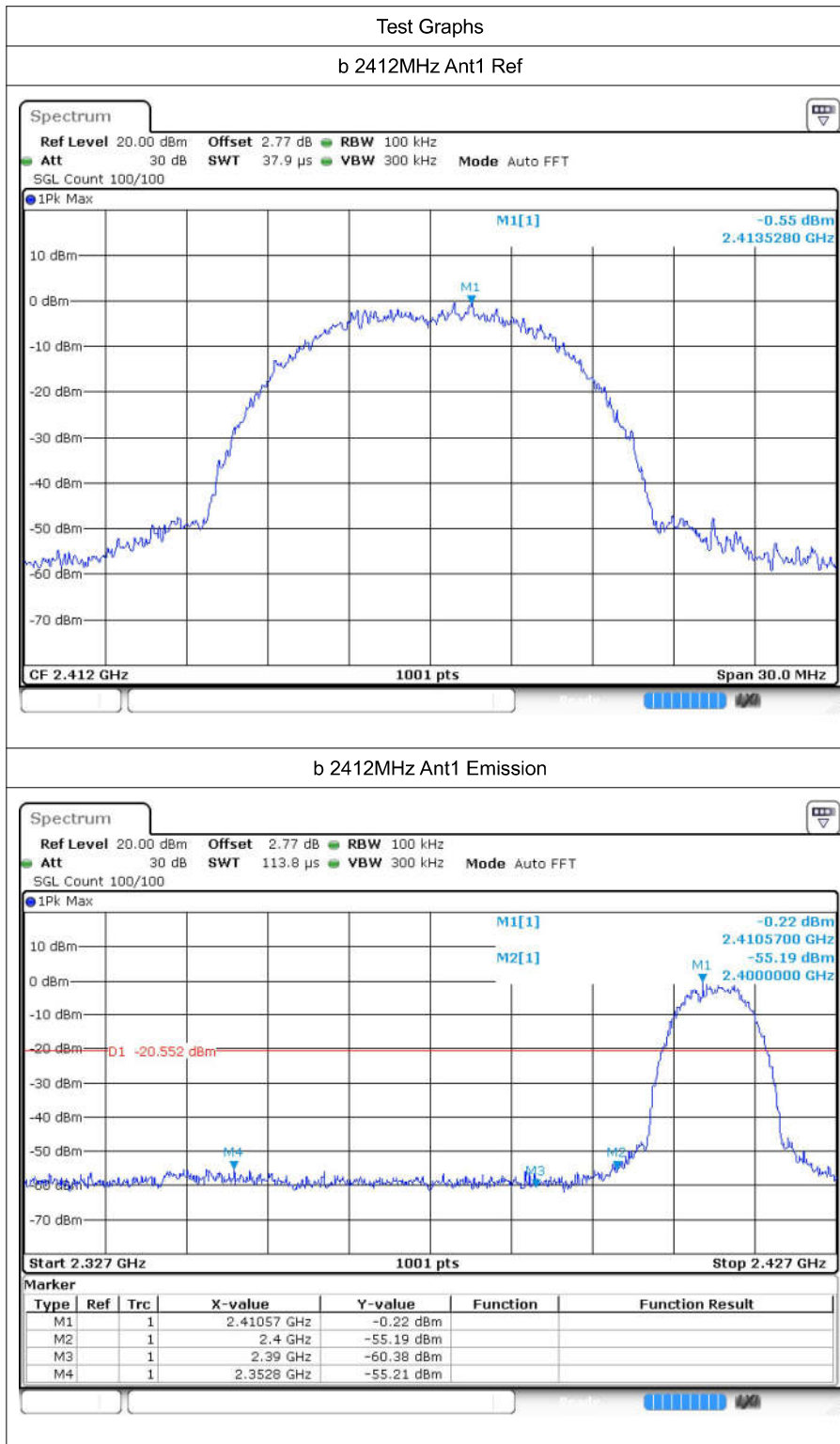
## 5 Band Edge

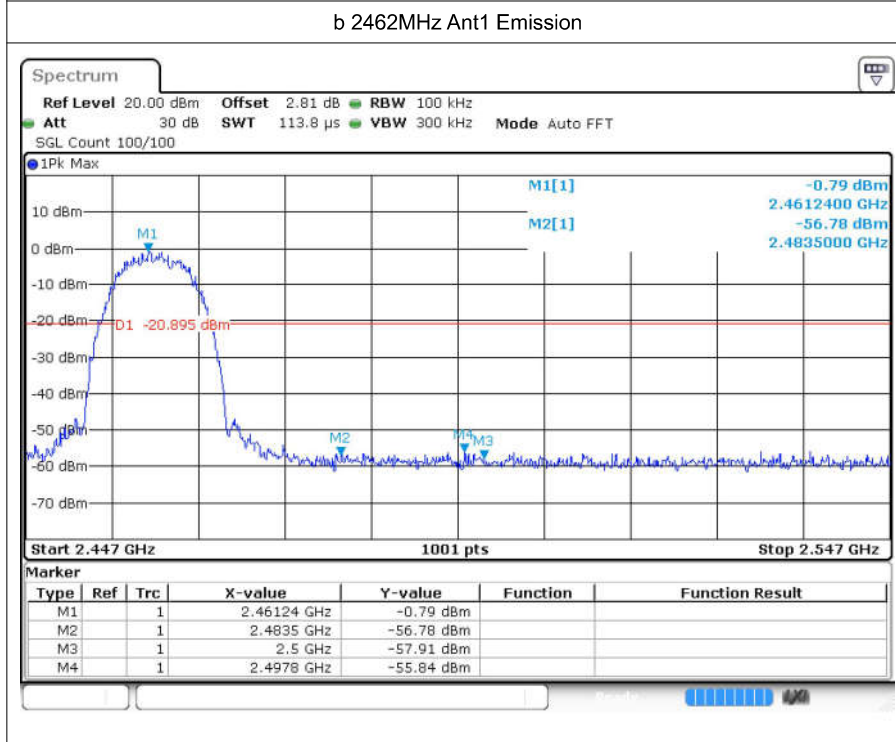
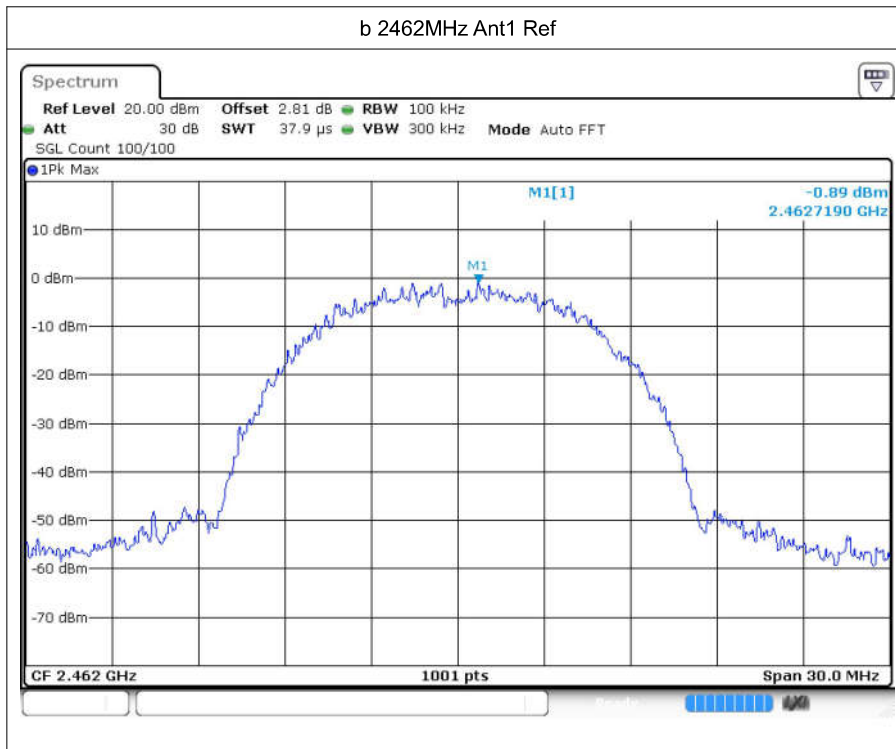
### 5.1 Test Result

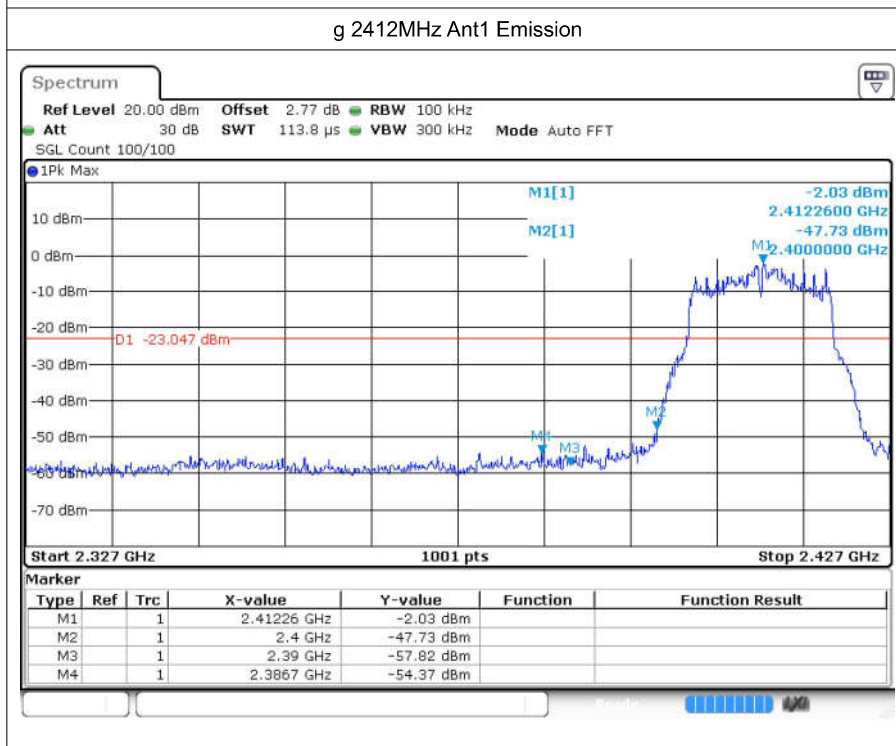
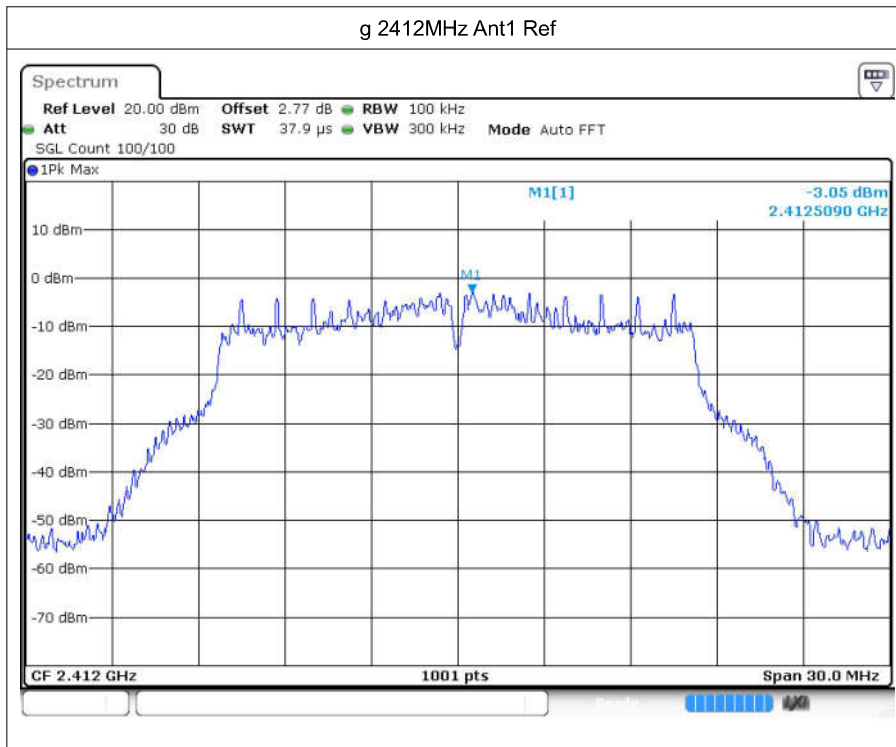
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.65	-20	-54.65
b	2462	Ant1	-54.95	-20	Pass
g	2412	Ant1	-51.32	-20	Pass
g	2462	Ant1	-50.68	-20	Pass
n20	2412	Ant1	-51.7	-20	Pass
n20	2462	Ant1	-50.63	-20	Pass
n40	2422	Ant1	-46.77	-20	Pass
n40	2452	Ant1	-46.72	-20	Pass

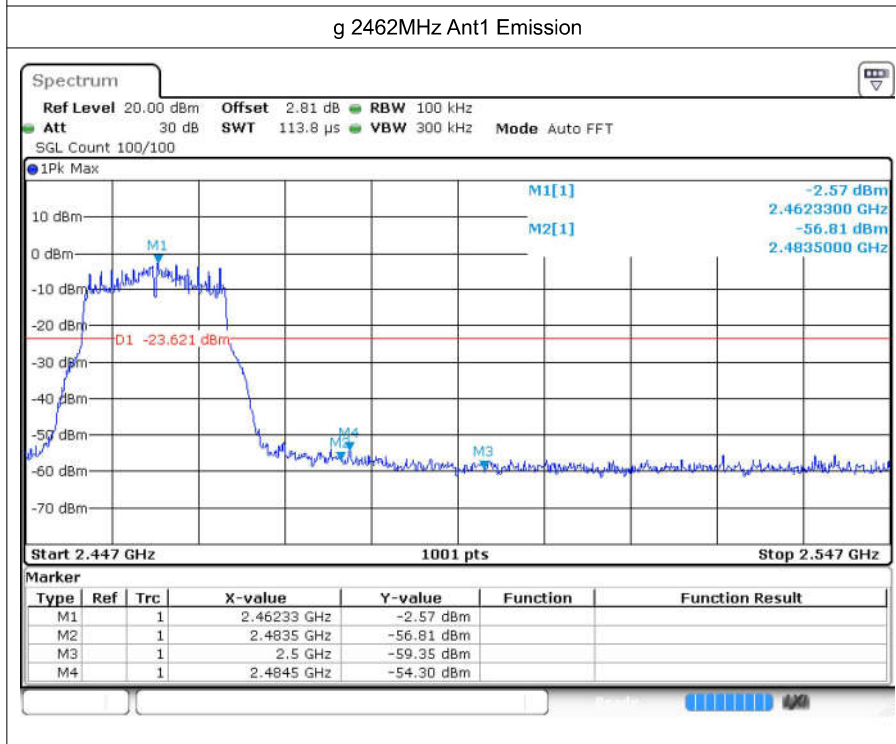
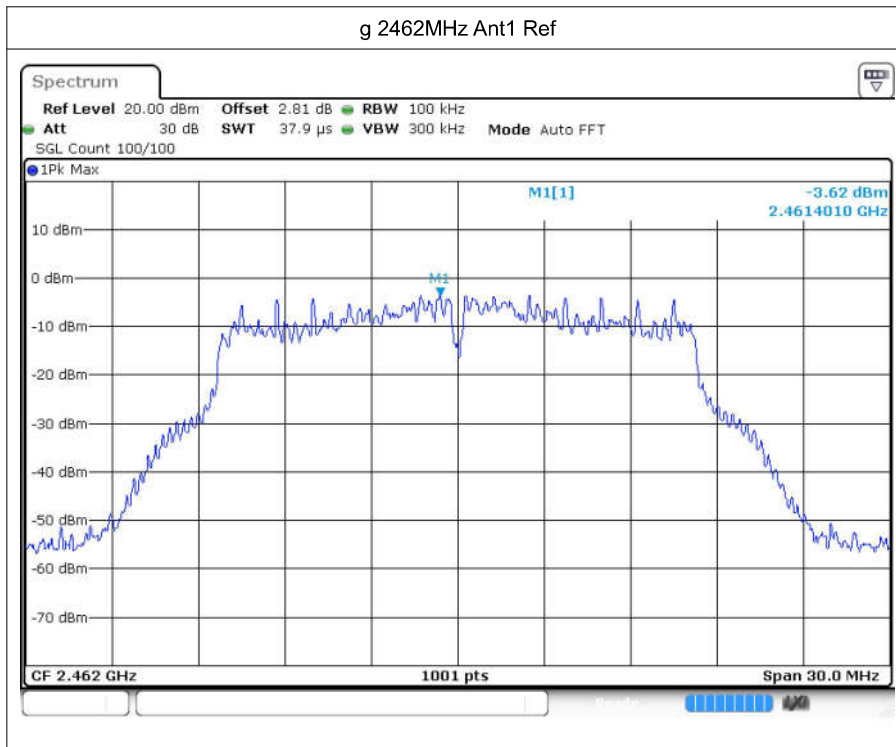


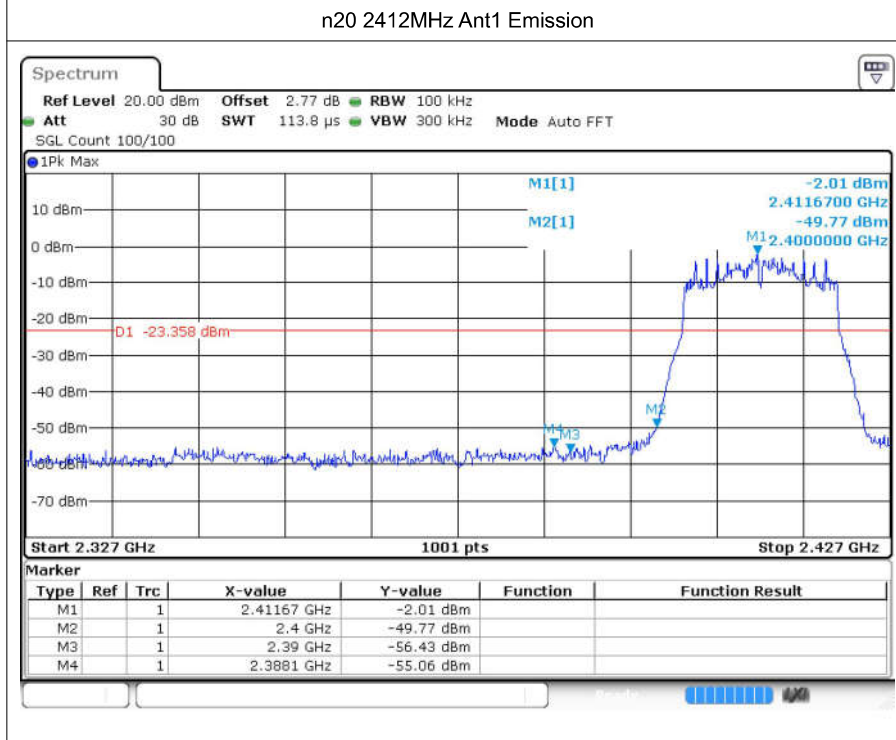
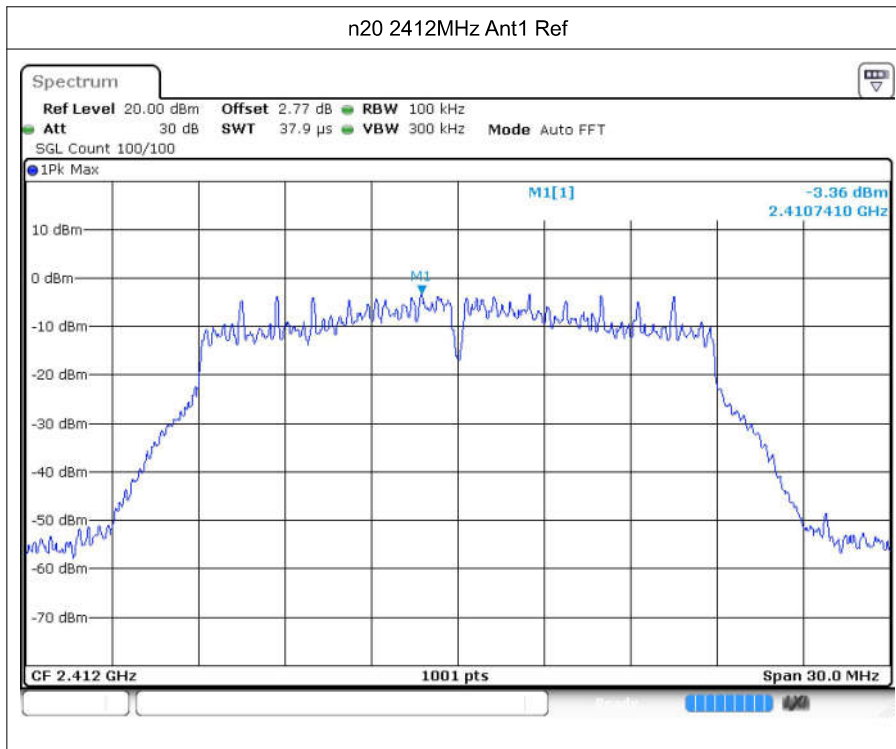
## 5.2 Test Graphs

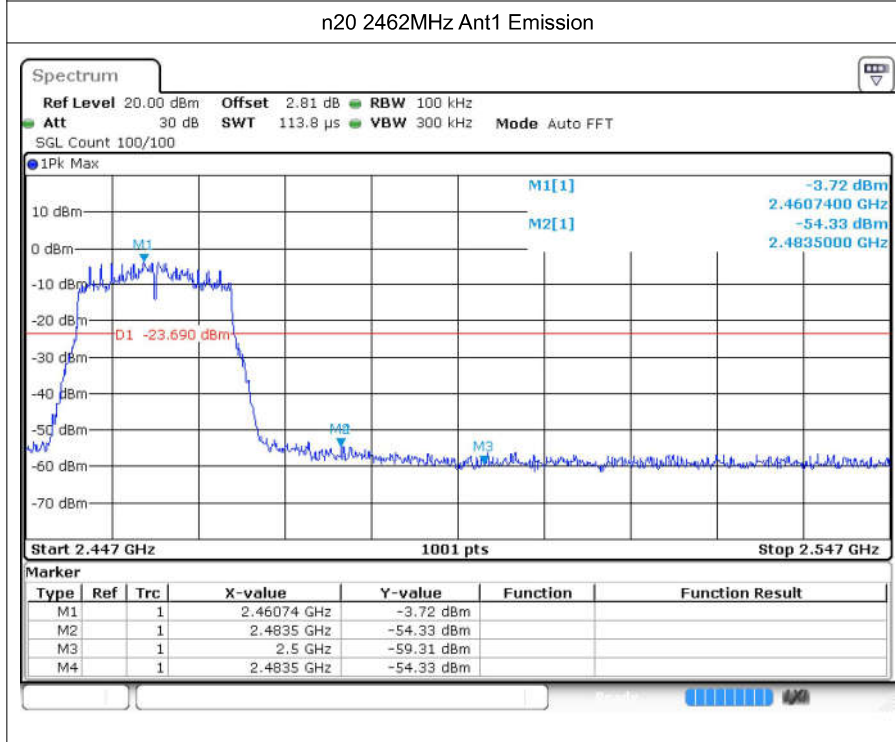
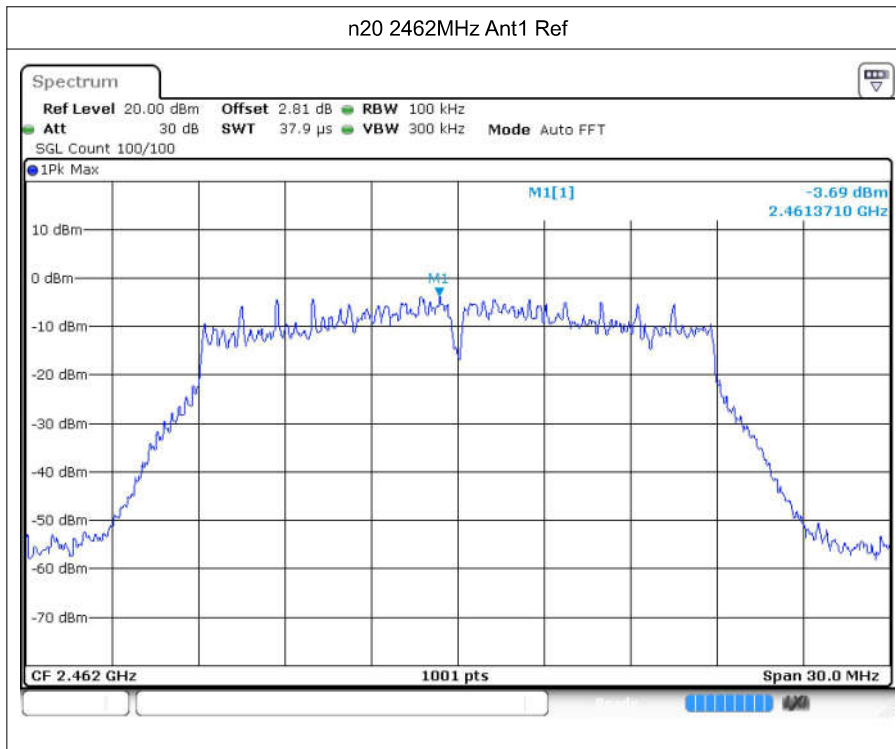


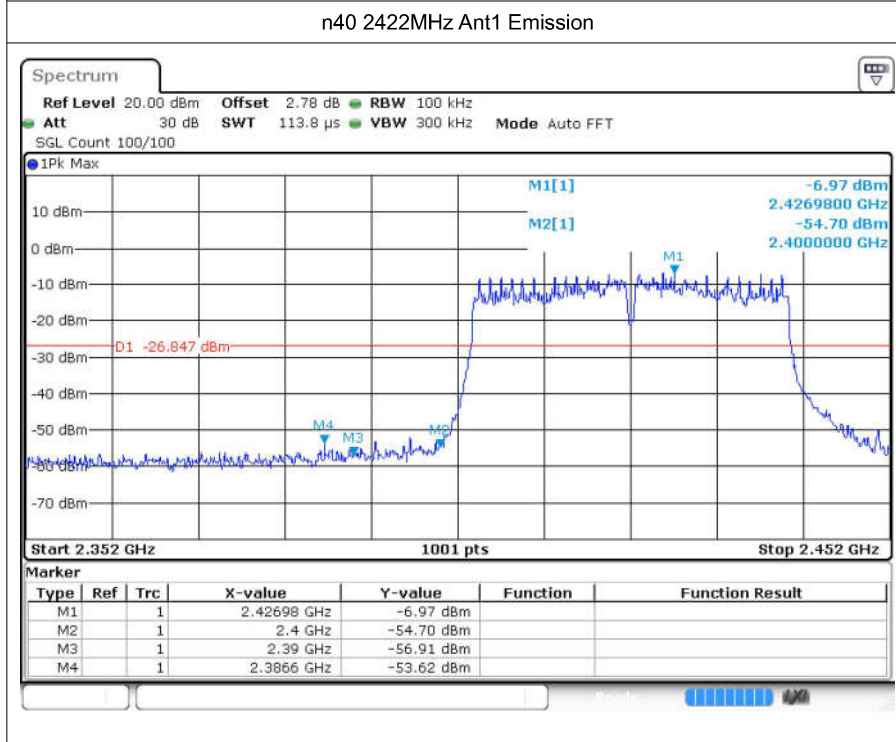
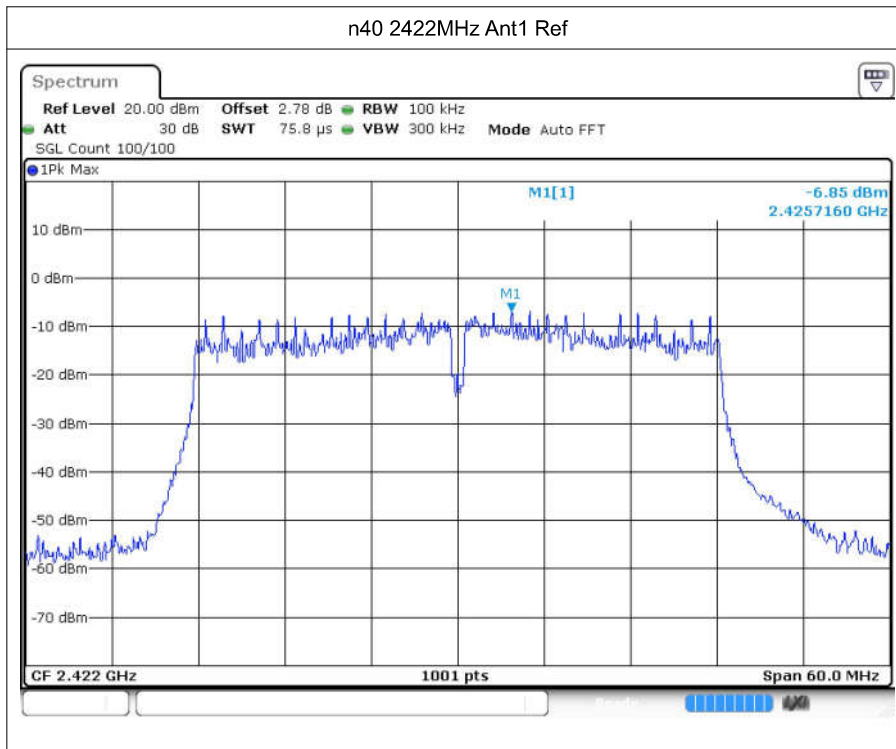




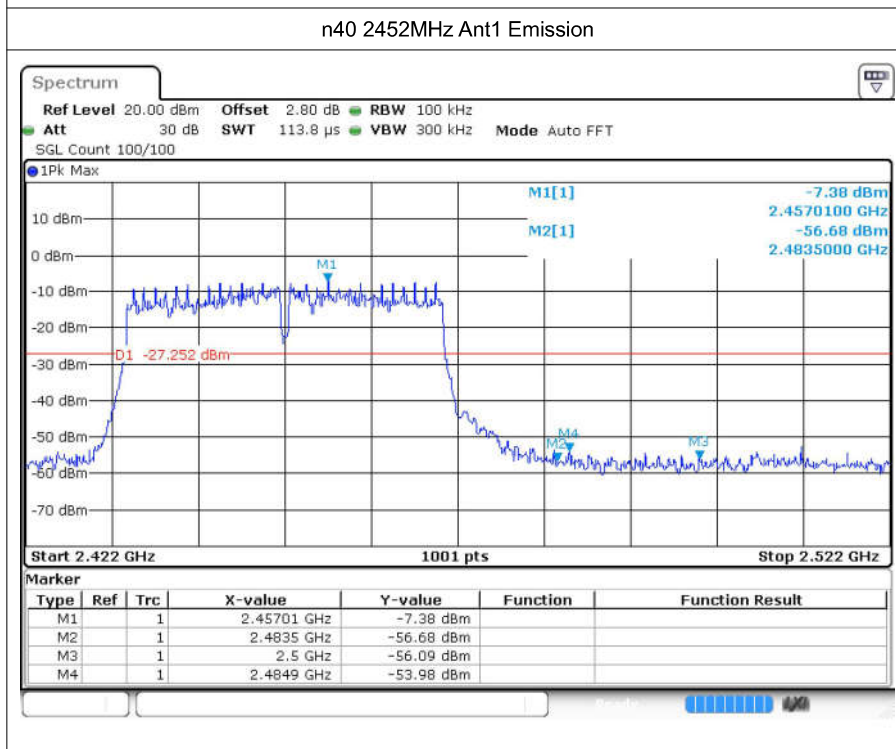
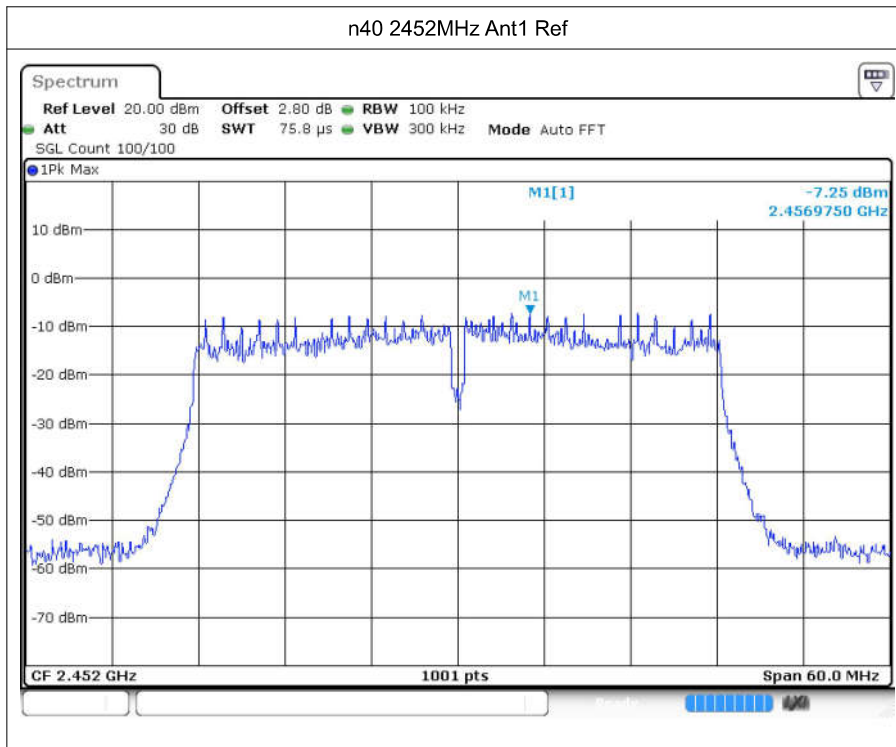














## 6 Conducted RF Spurious Emission

### 6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-42.87	-20	Pass
b	2437	Ant1	-43.15	-20	Pass
b	2462	Ant1	-42.43	-20	Pass
g	2412	Ant1	-40.48	-20	Pass
g	2437	Ant1	-39.28	-20	Pass
g	2462	Ant1	-39.93	-20	Pass
n20	2412	Ant1	-40.84	-20	Pass
n20	2437	Ant1	-39	-20	Pass
n20	2462	Ant1	-39.14	-20	Pass
n40	2422	Ant1	-36.53	-20	Pass
n40	2437	Ant1	-35.18	-20	Pass
n40	2452	Ant1	-36.48	-20	Pass

## 6.2 Test Graphs

