



## Appendix C

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

Product Name: M5DinMeter

Trade Mark: M5STACK

Test Model: DinMeter

#### 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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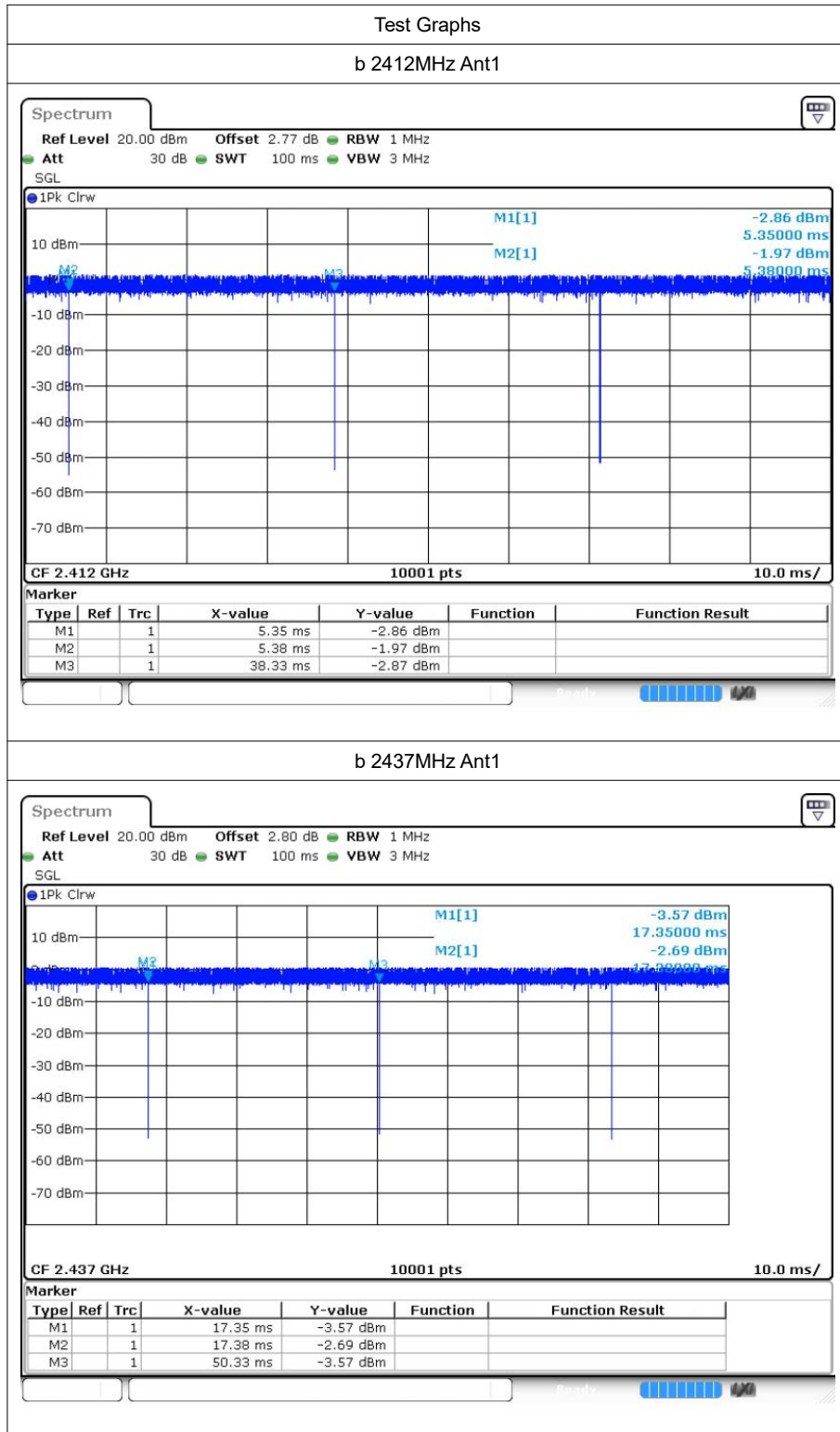


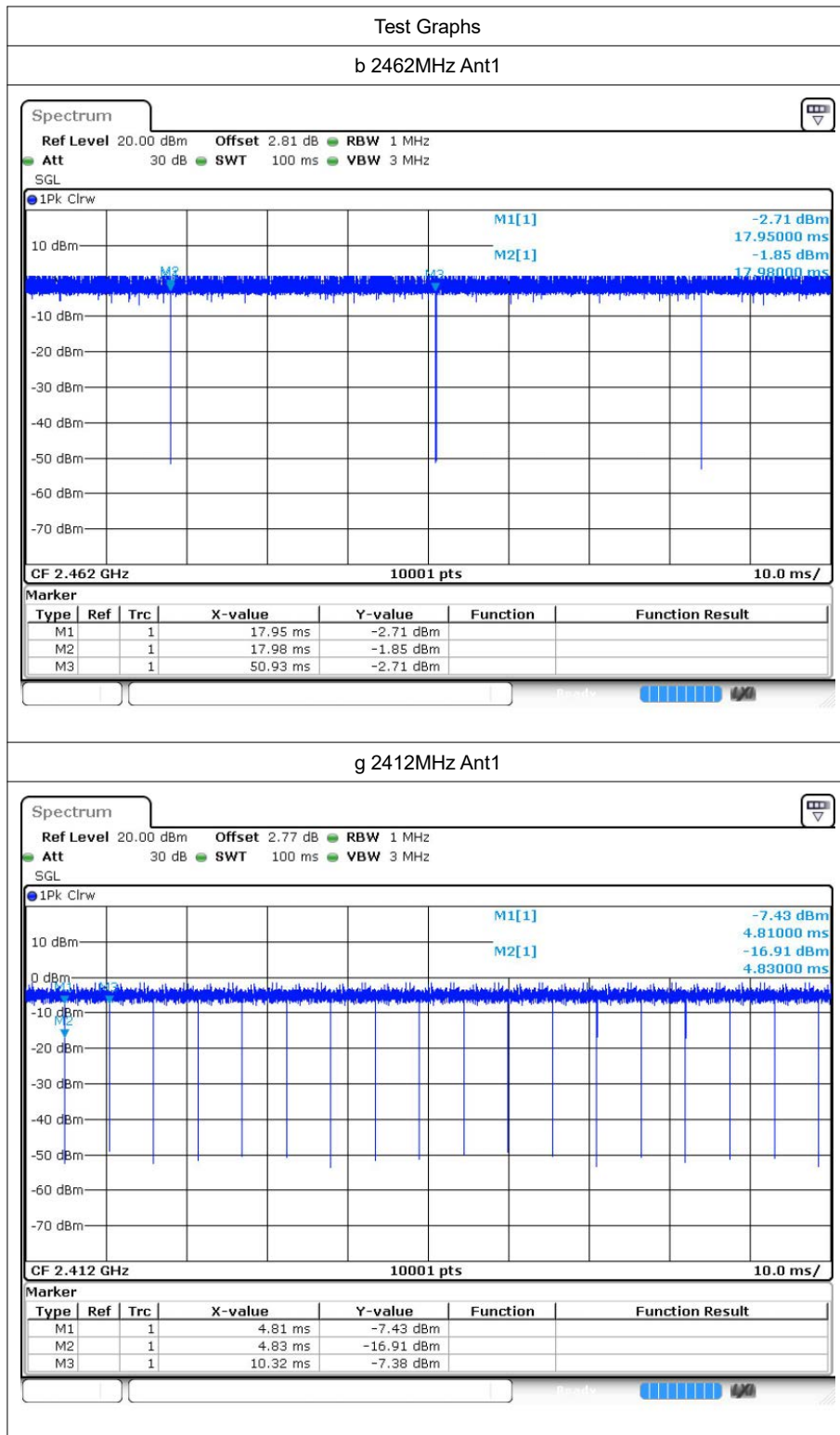
# 1 Duty Cycle

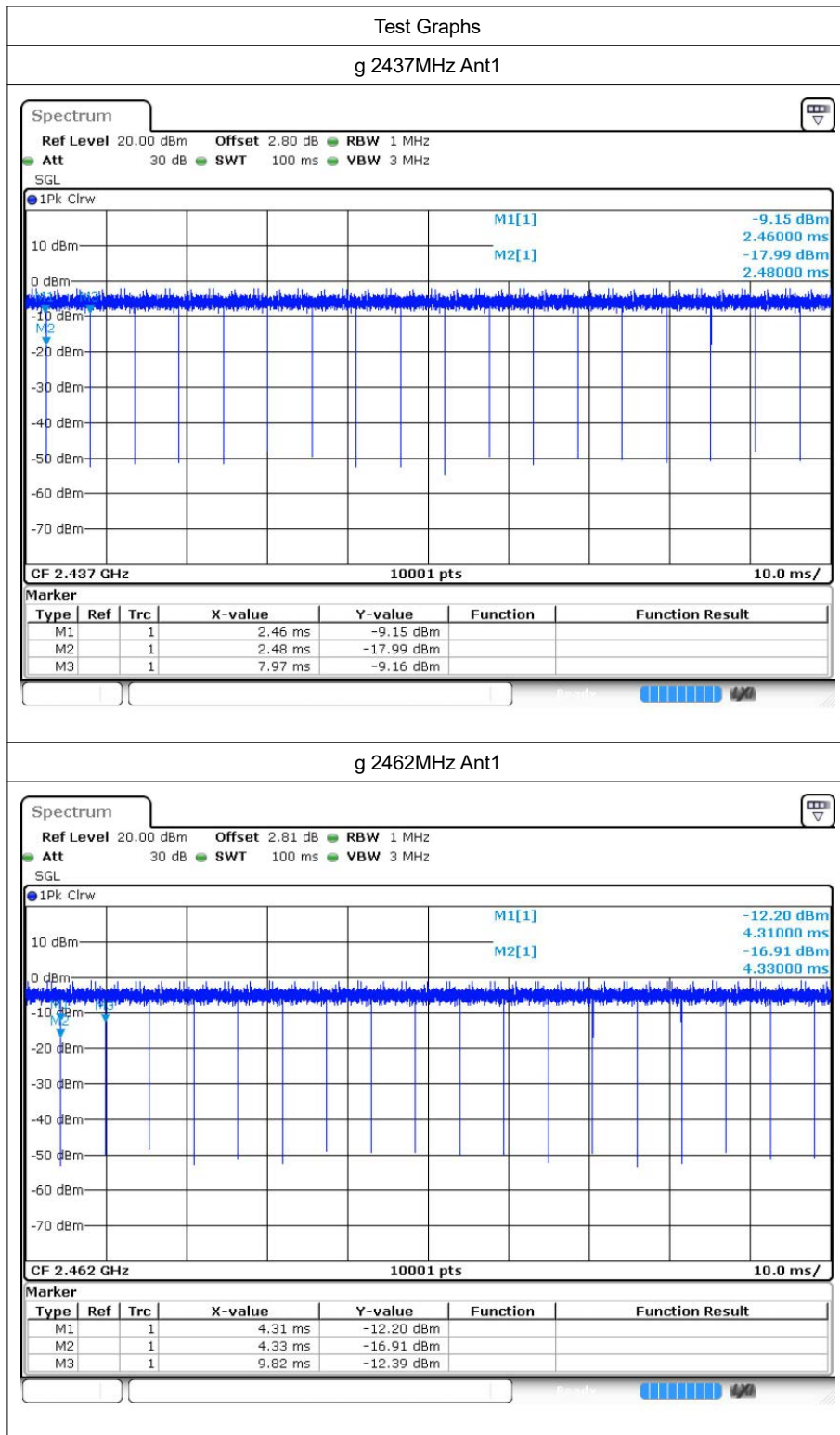
## 1.1 Test Result

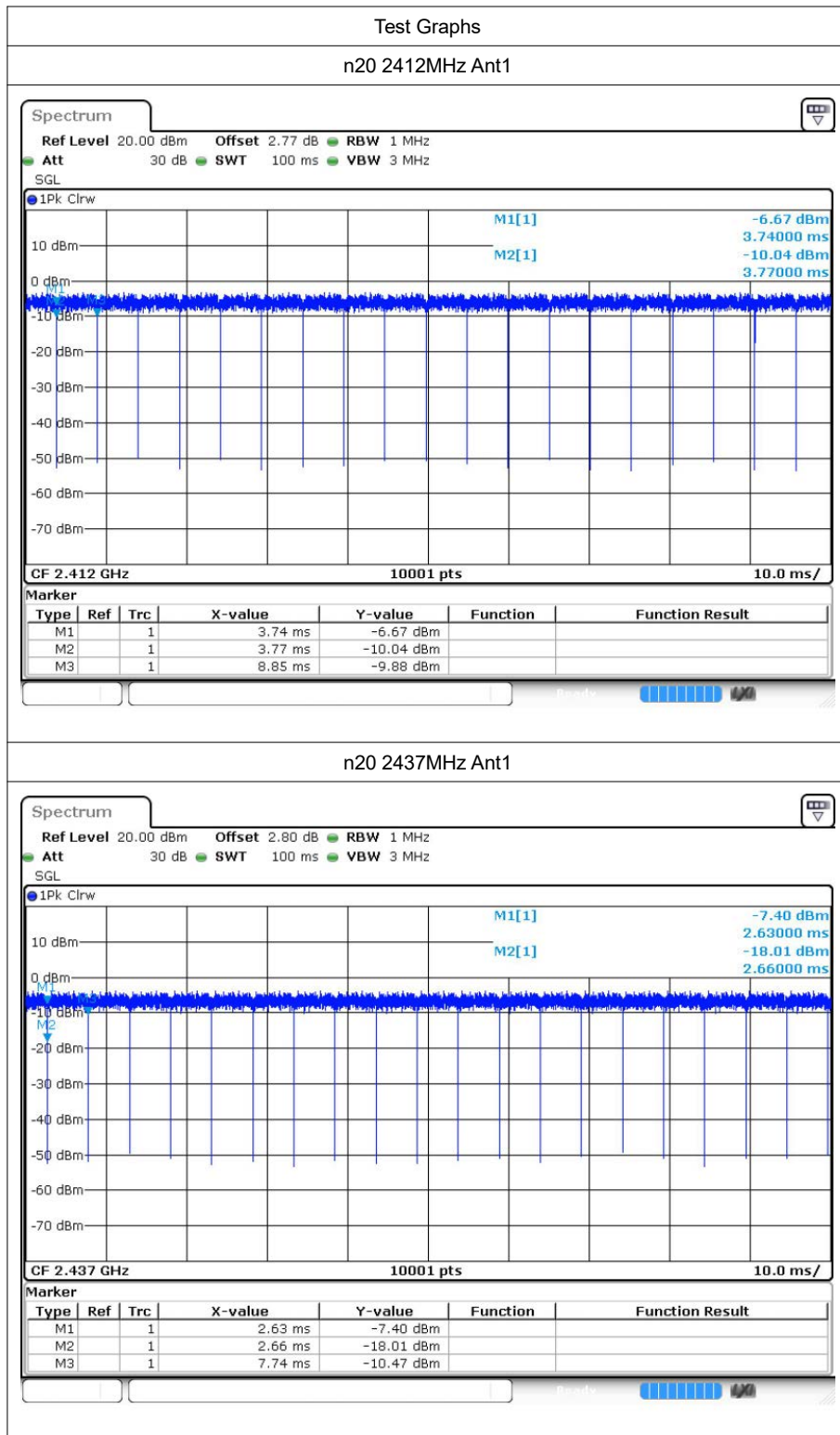
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.94	0	0.03
b	2437	Ant1	99.94	0	0.03
b	2462	Ant1	99.94	0	0.03
g	2412	Ant1	99.82	0.01	0.18
g	2437	Ant1	99.82	0.01	0.18
g	2462	Ant1	99.82	0.01	0.18
n20	2412	Ant1	99.7	0.01	0.2
n20	2437	Ant1	99.72	0.01	0.2
n20	2462	Ant1	99.68	0.01	0.2
n40	2422	Ant1	99.06	0.04	0.41
n40	2437	Ant1	98.97	0.04	100
n40	2452	Ant1	99.04	0.04	0.41

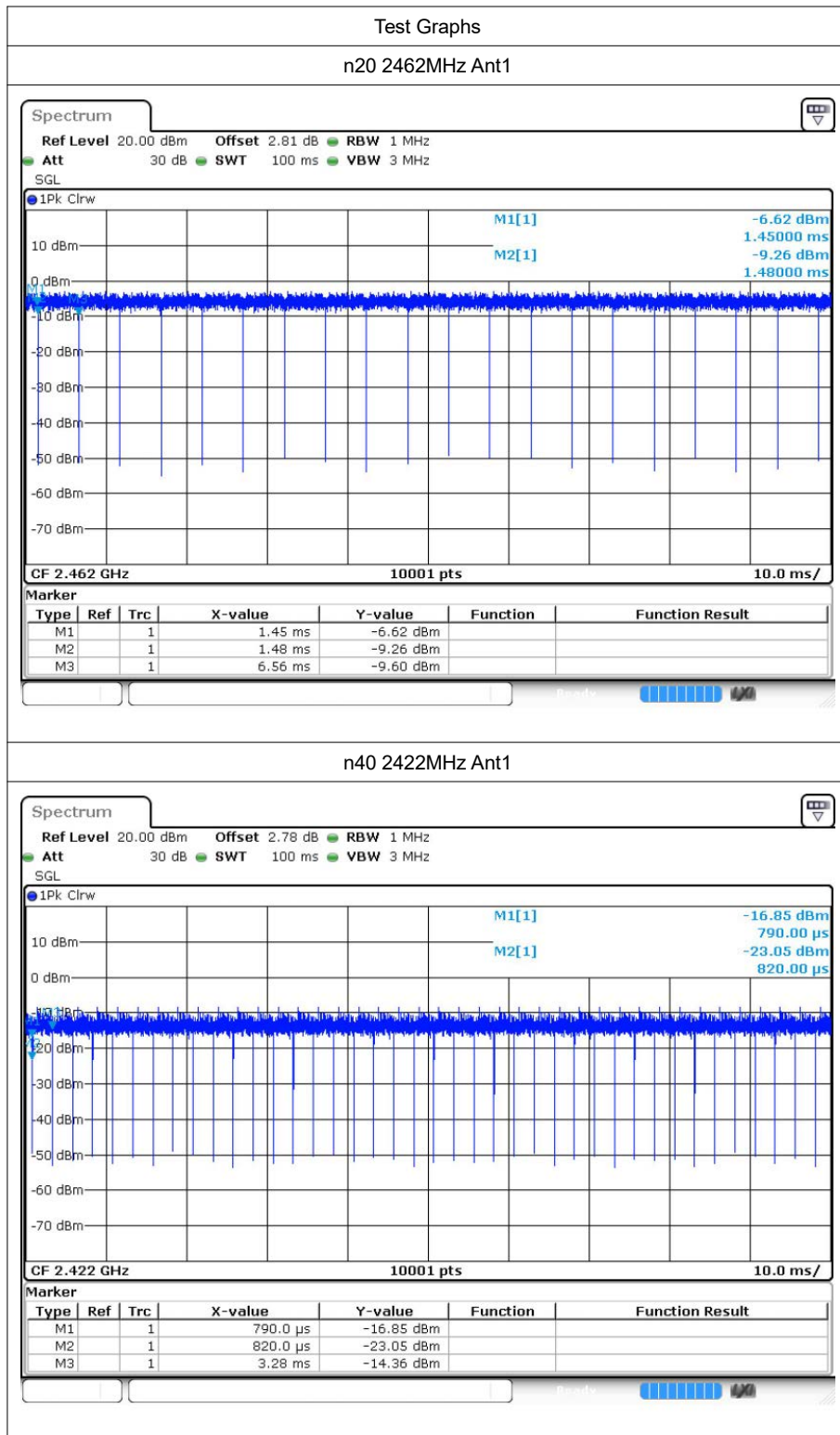
## 1.2 Test Graphs



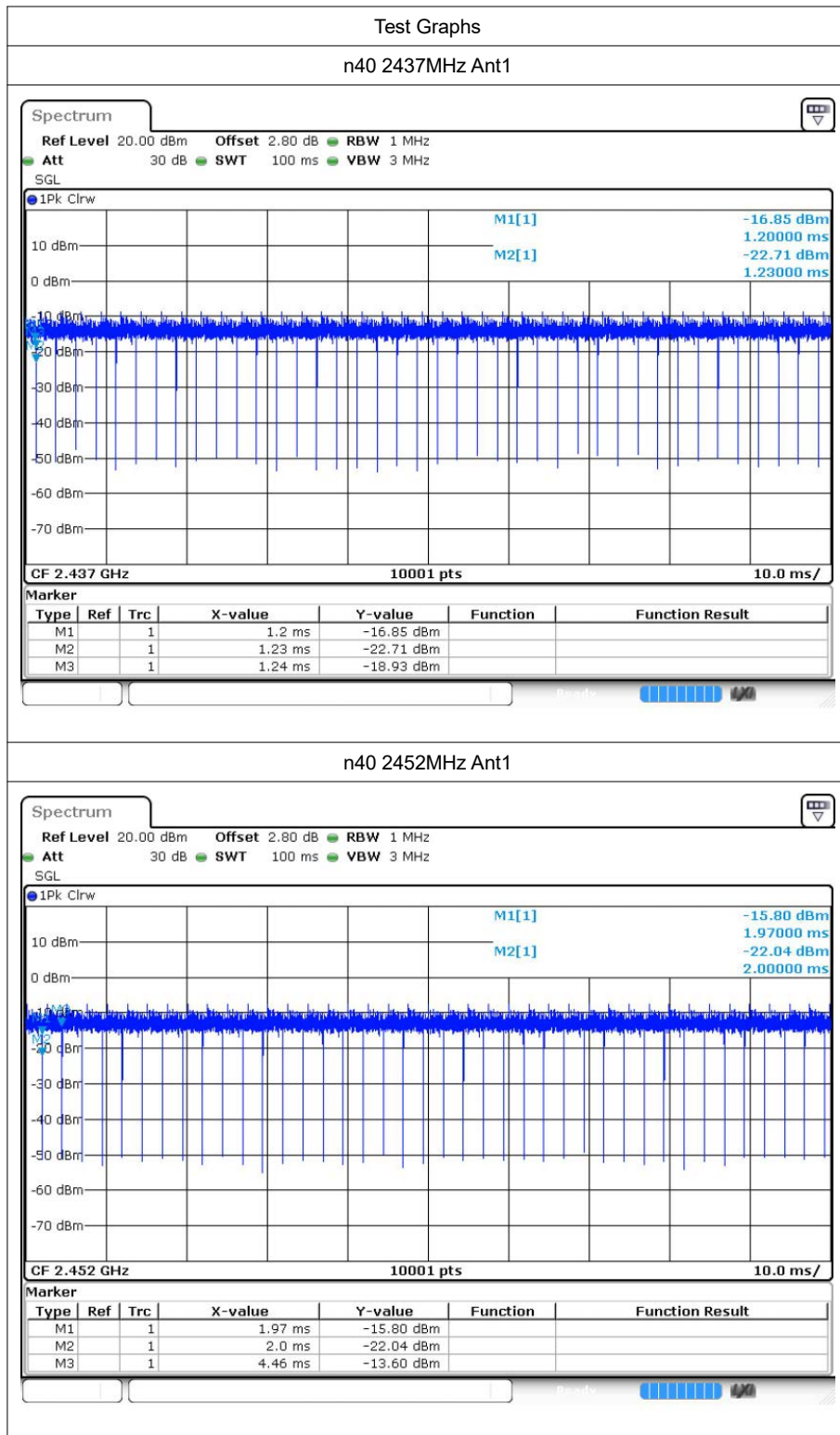












## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	8.38	30	Pass
b	2437	Ant1	7.98	30	Pass
b	2462	Ant1	8.73	30	Pass
g	2412	Ant1	7.68	30	Pass
g	2437	Ant1	7.22	30	Pass
g	2462	Ant1	8.2	30	Pass
n20	2412	Ant1	7.14	30	Pass
n20	2437	Ant1	6.66	30	Pass
n20	2462	Ant1	7.52	30	Pass
n40	2422	Ant1	6.96	30	Pass
n40	2437	Ant1	7.09	30	Pass
n40	2452	Ant1	7.72	30	Pass

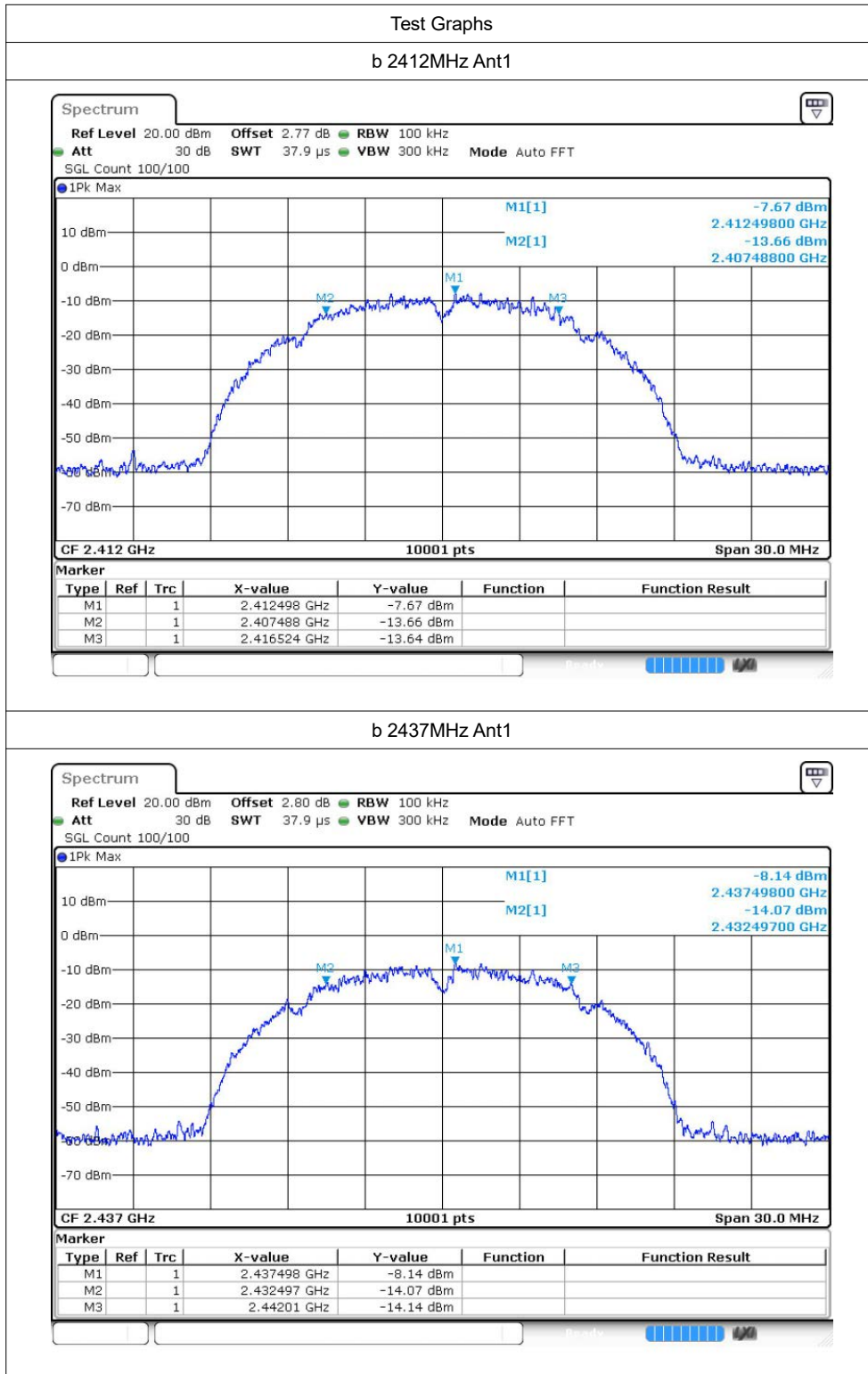


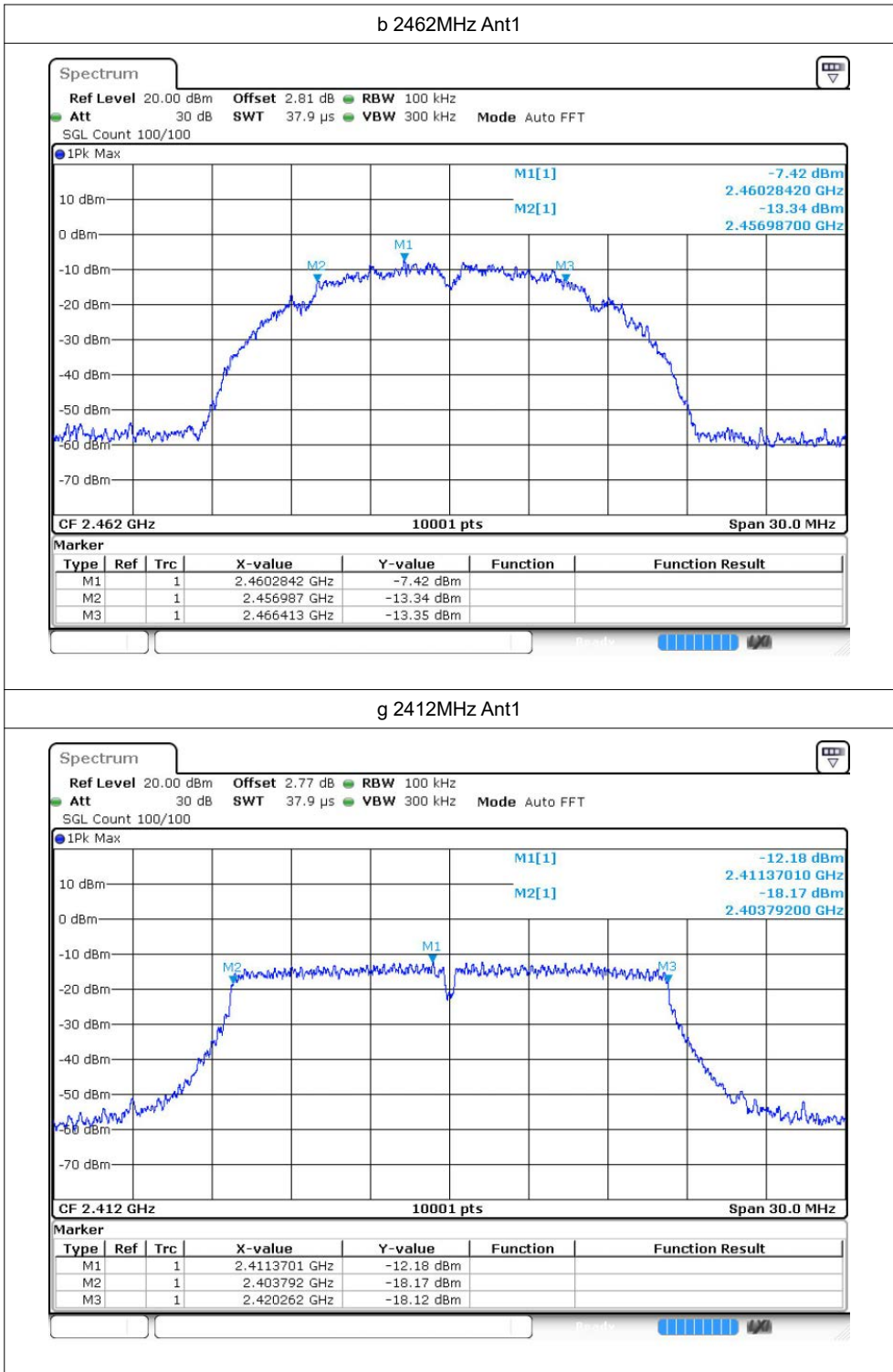
### 3 -6dB Bandwidth

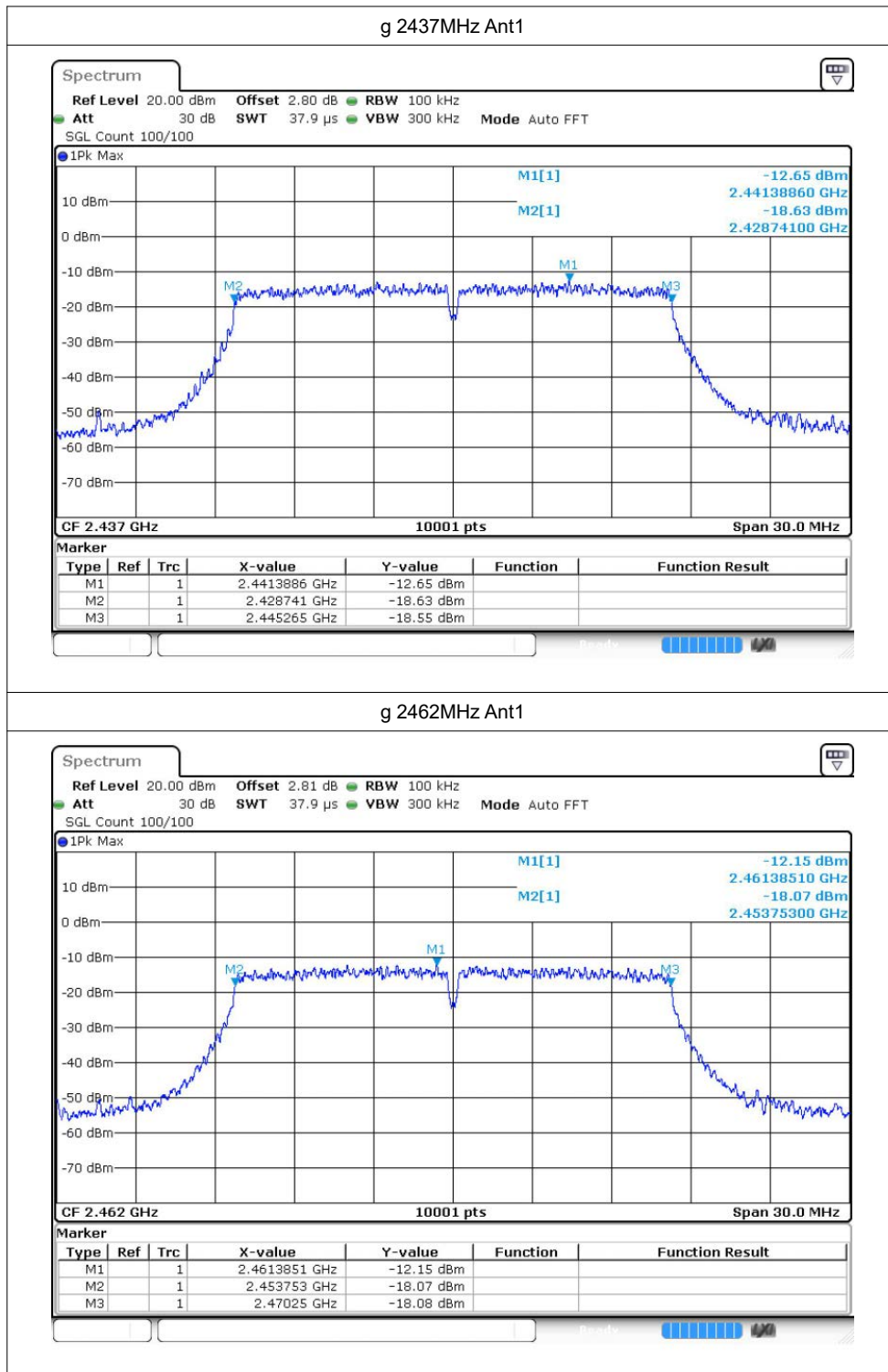
#### 3.1 Test Result

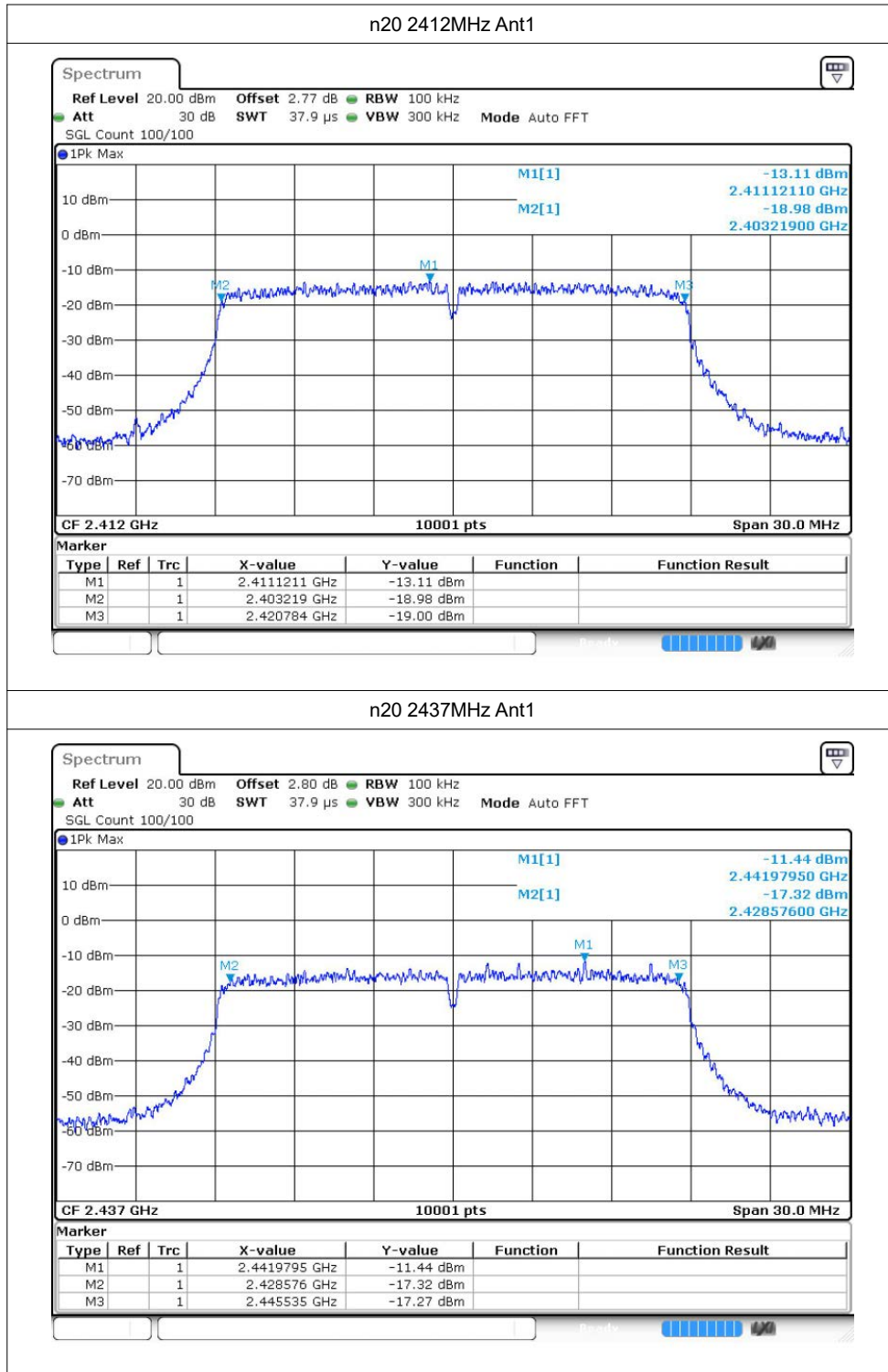
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	9.036	0.5	Pass
b	2437	Ant1	9.513	0.5	Pass
b	2462	Ant1	9.426	0.5	Pass
g	2412	Ant1	16.47	0.5	Pass
g	2437	Ant1	16.524	0.5	Pass
g	2462	Ant1	16.497	0.5	Pass
n20	2412	Ant1	17.565	0.5	Pass
n20	2437	Ant1	16.959	0.5	Pass
n20	2462	Ant1	16.974	0.5	Pass
n40	2422	Ant1	34.104	0.5	Pass
n40	2437	Ant1	36.312	0.5	Pass
n40	2452	Ant1	30.012	0.5	Pass

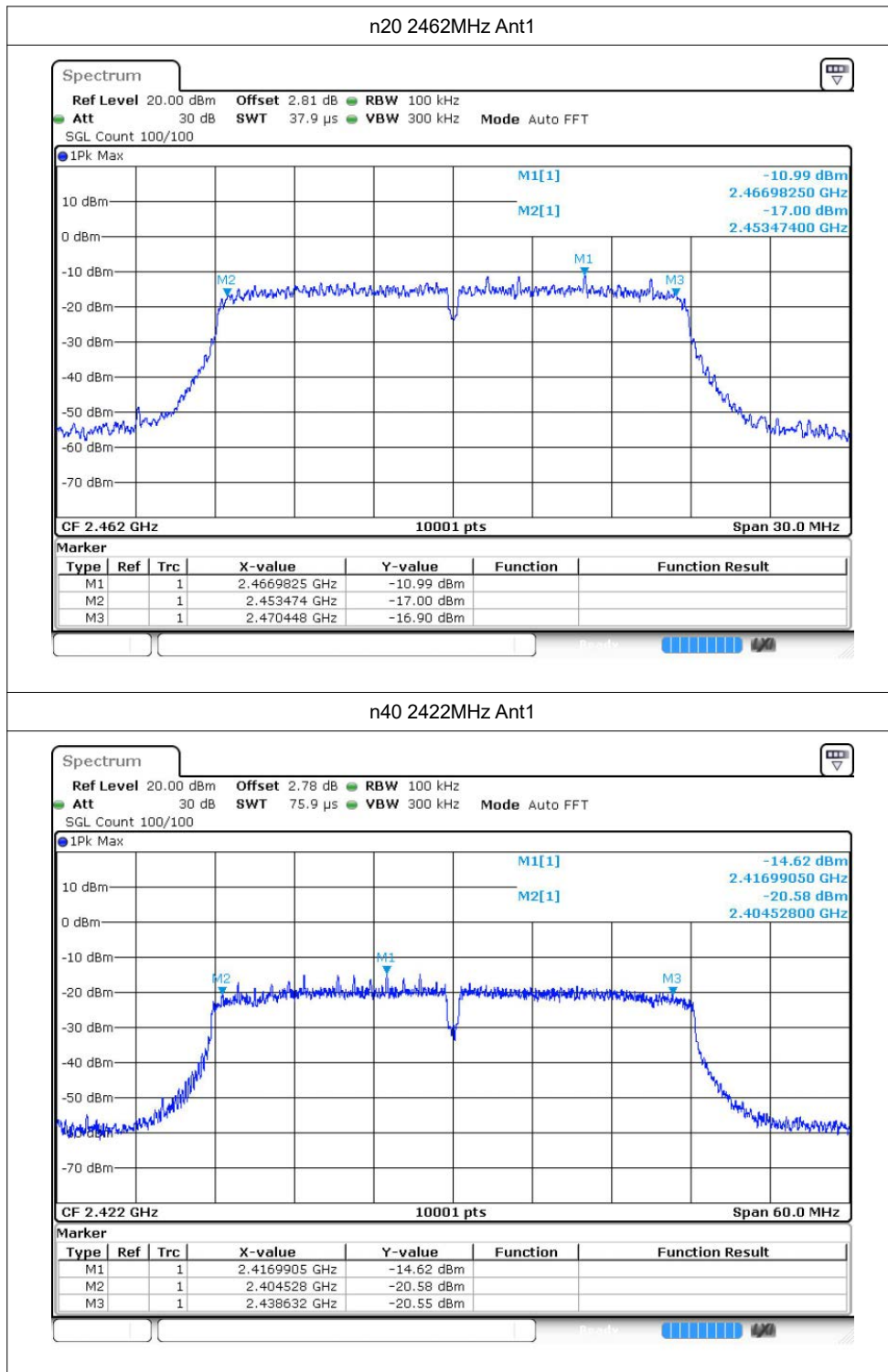
### 3.2 Test Graphs



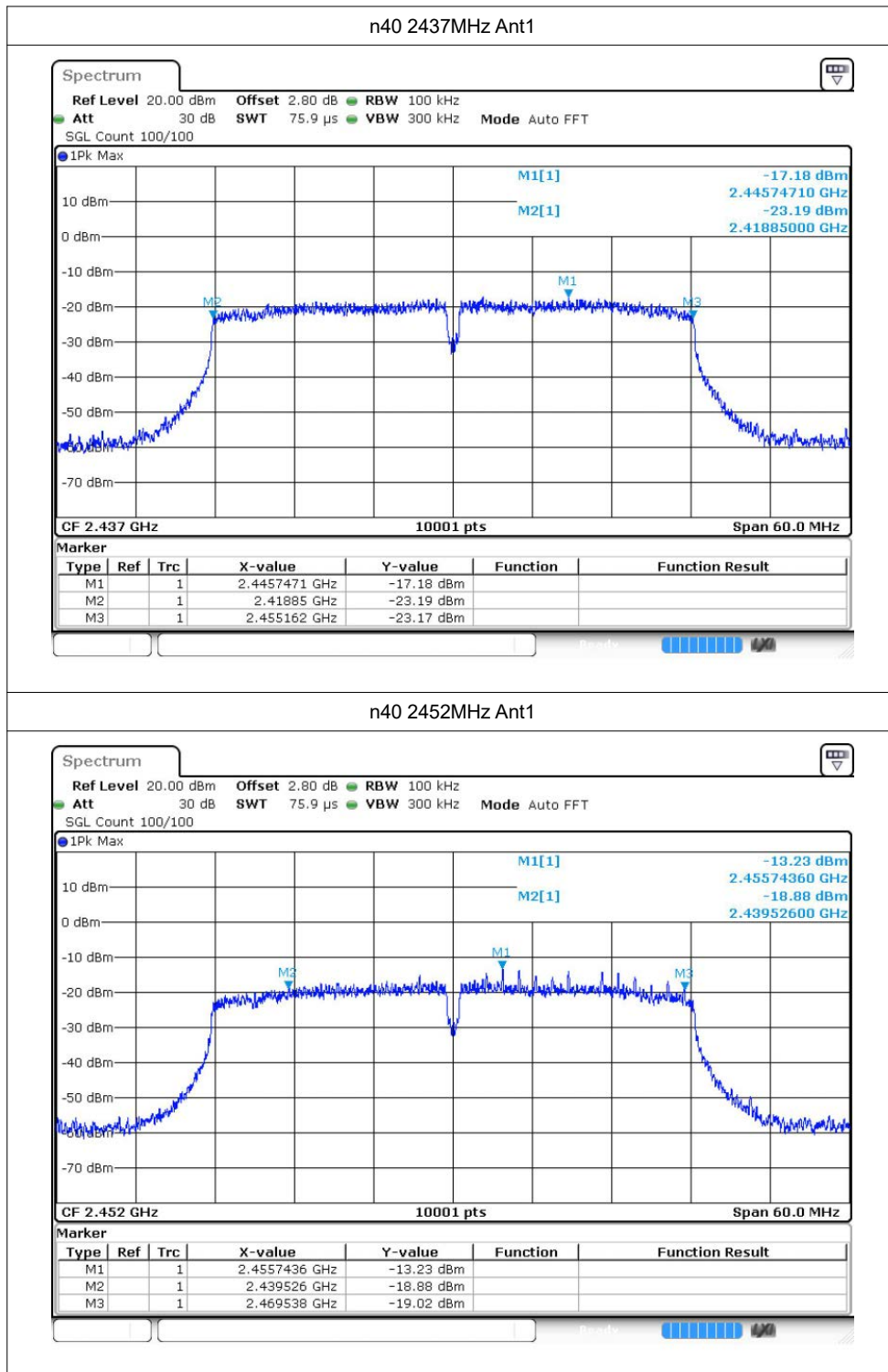










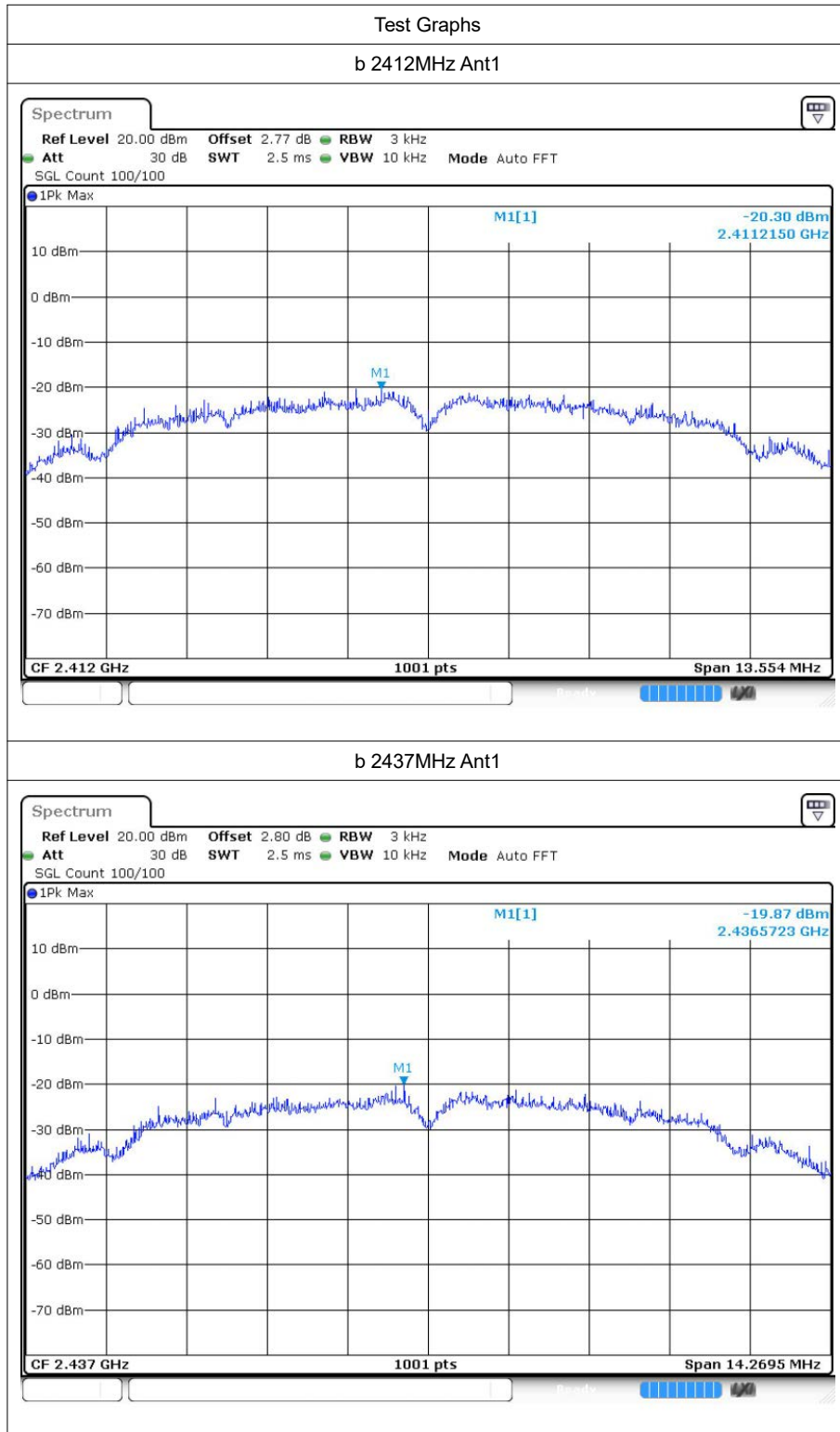


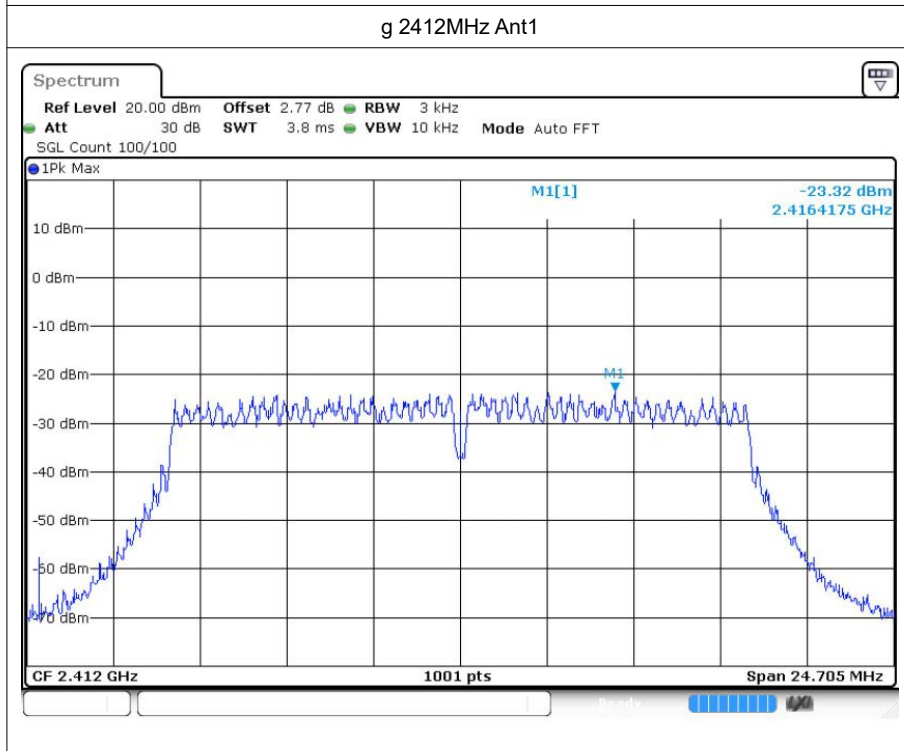
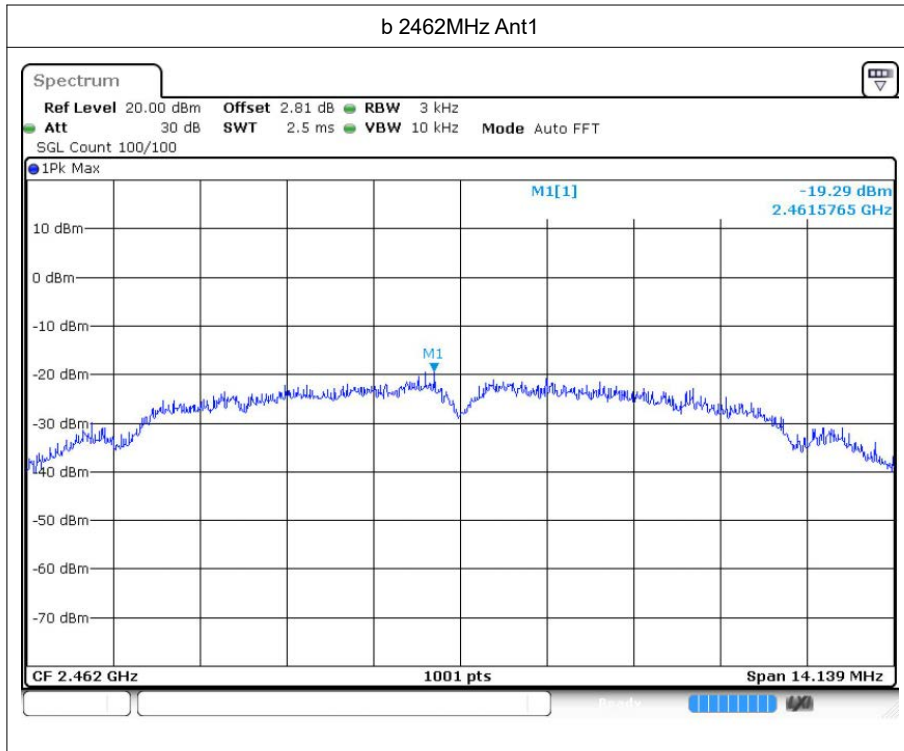
## 4 Maximum Power Spectral Density Level

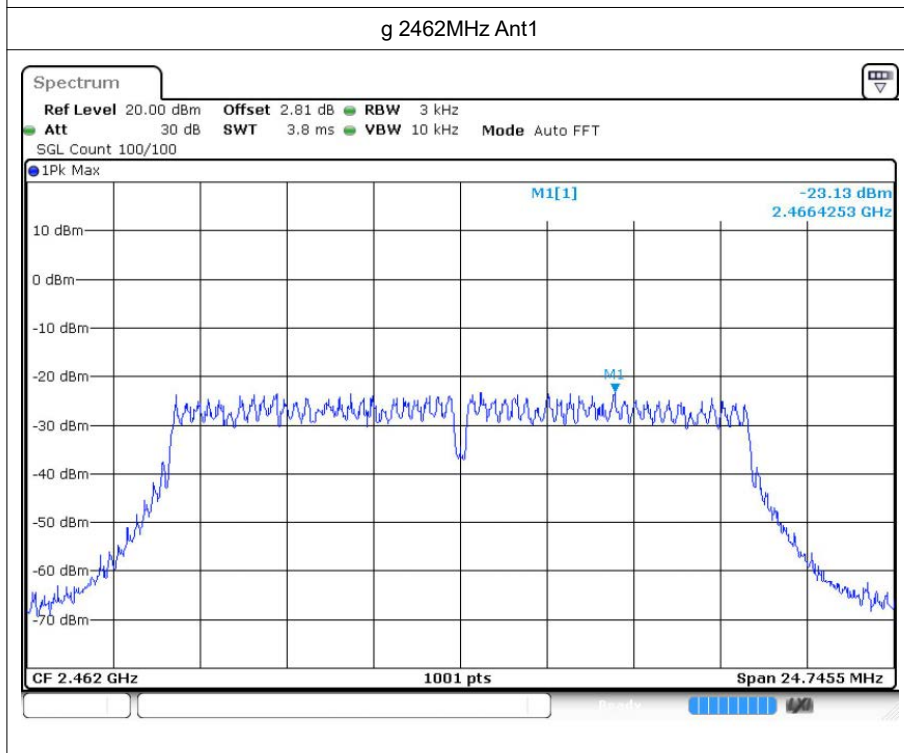
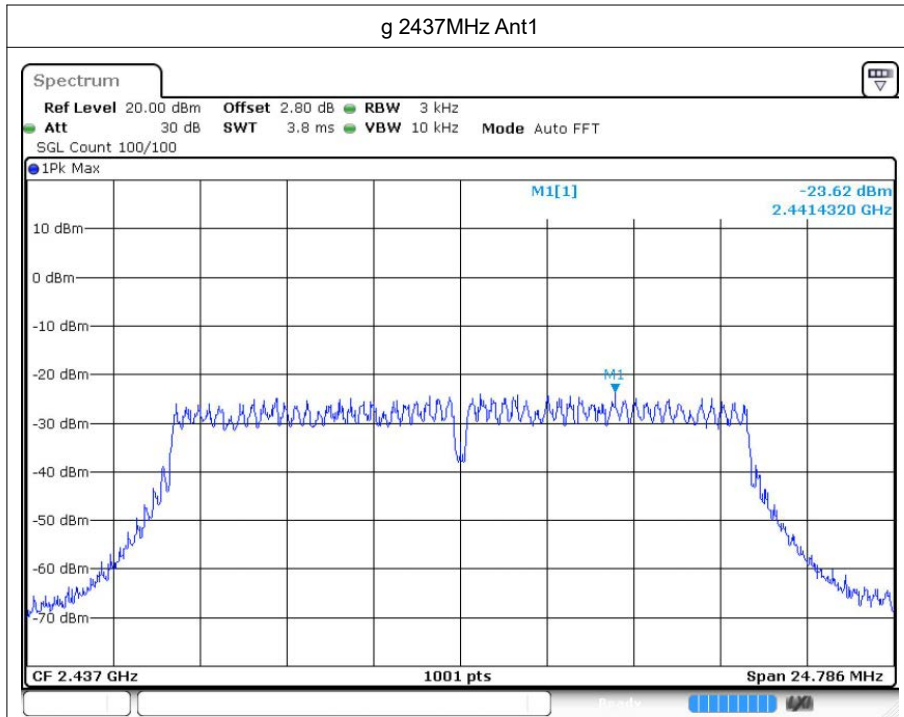
### 4.1 Test Result

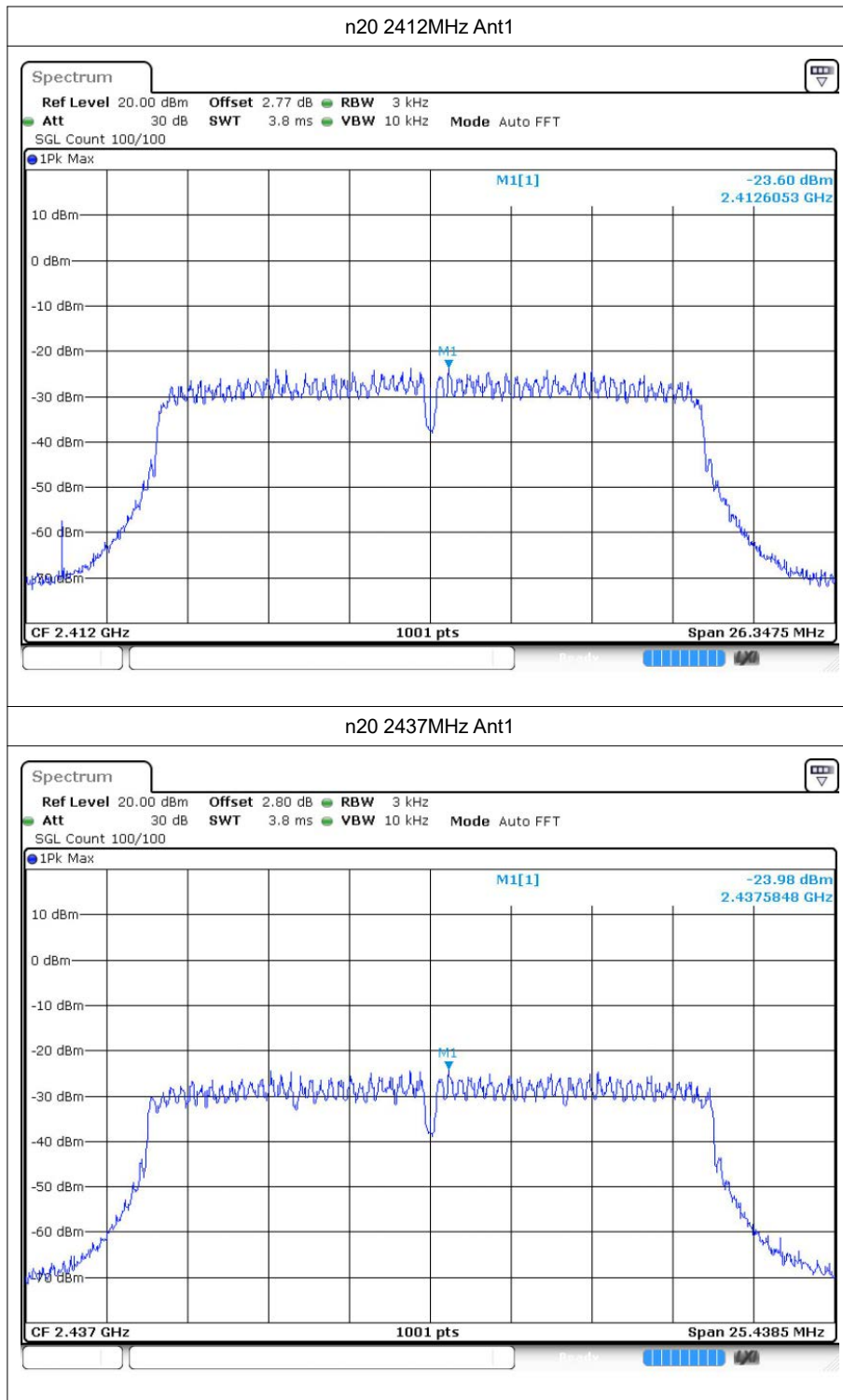
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-20.3	≤8	Pass
b	2437	Ant1	-19.87	≤8	Pass
b	2462	Ant1	-19.29	≤8	Pass
g	2412	Ant1	-23.32	≤8	Pass
g	2437	Ant1	-23.62	≤8	Pass
g	2462	Ant1	-23.13	≤8	Pass
n20	2412	Ant1	-23.6	≤8	Pass
n20	2437	Ant1	-23.98	≤8	Pass
n20	2462	Ant1	-22.72	≤8	Pass
n40	2422	Ant1	-27.75	≤8	Pass
n40	2437	Ant1	-27.65	≤8	Pass
n40	2452	Ant1	-26.67	≤8	Pass

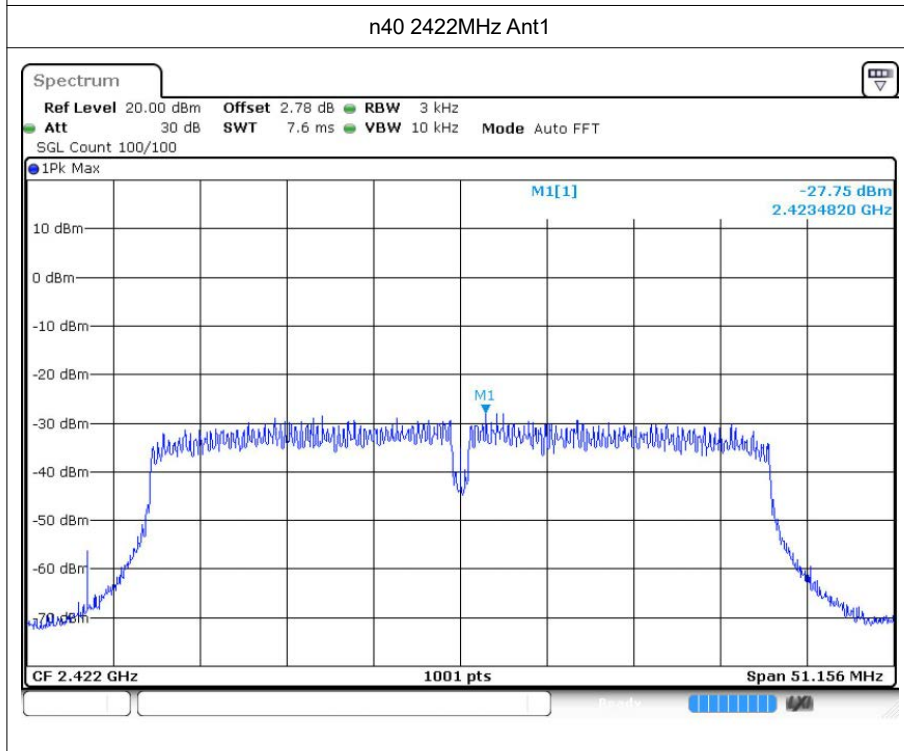
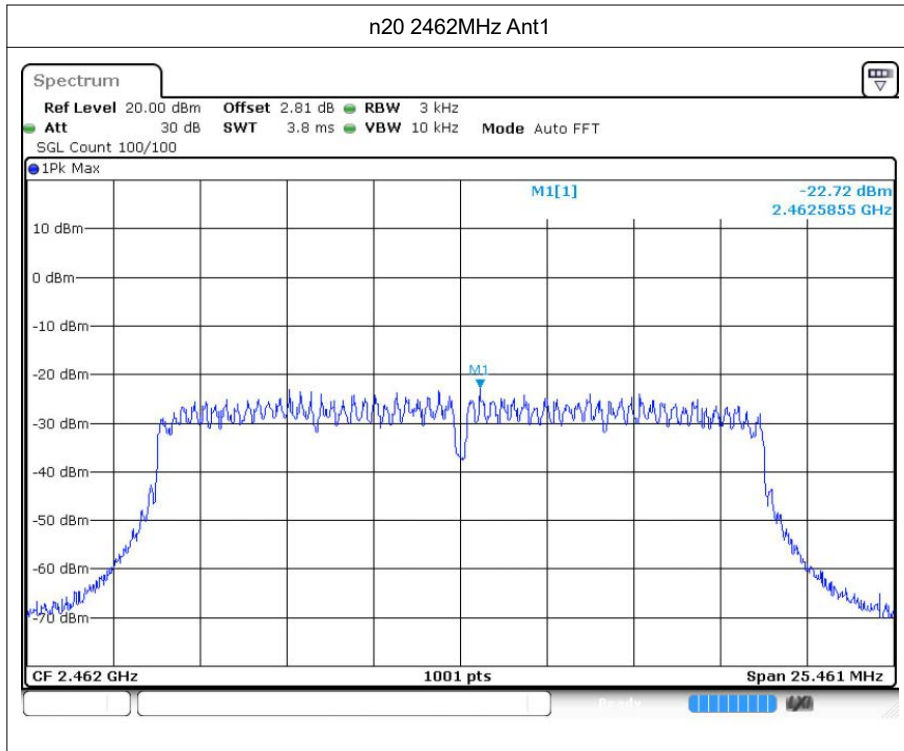
## 4.2 Test Graphs

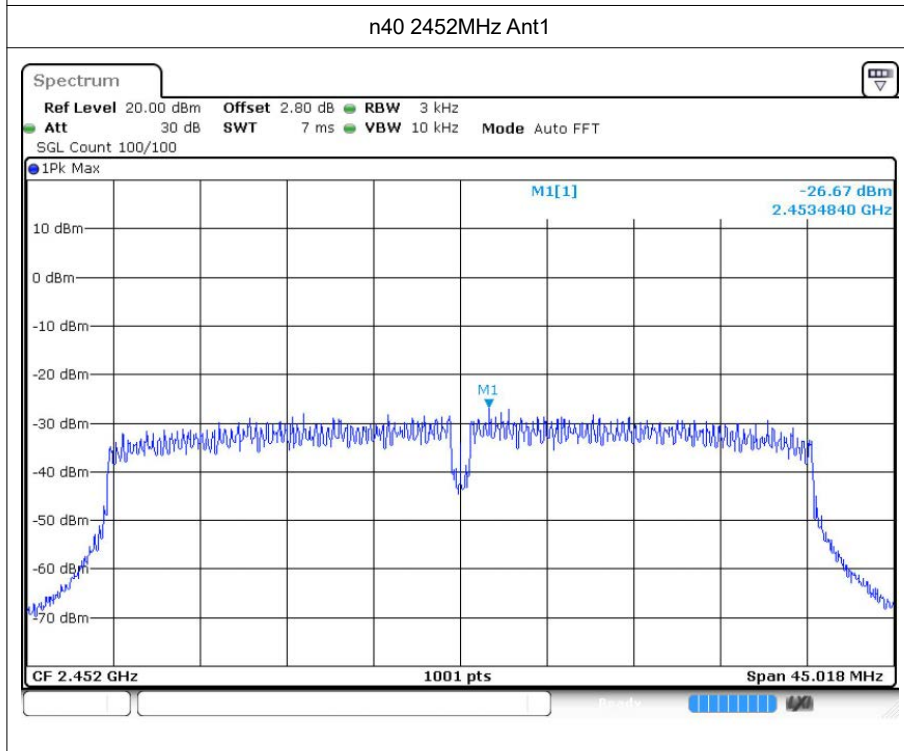
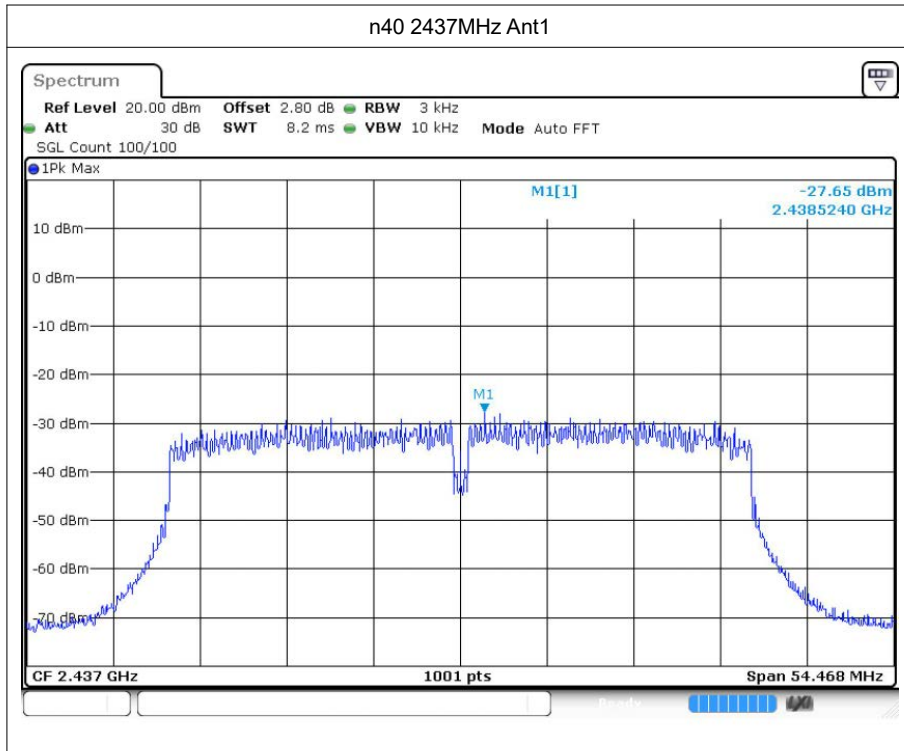














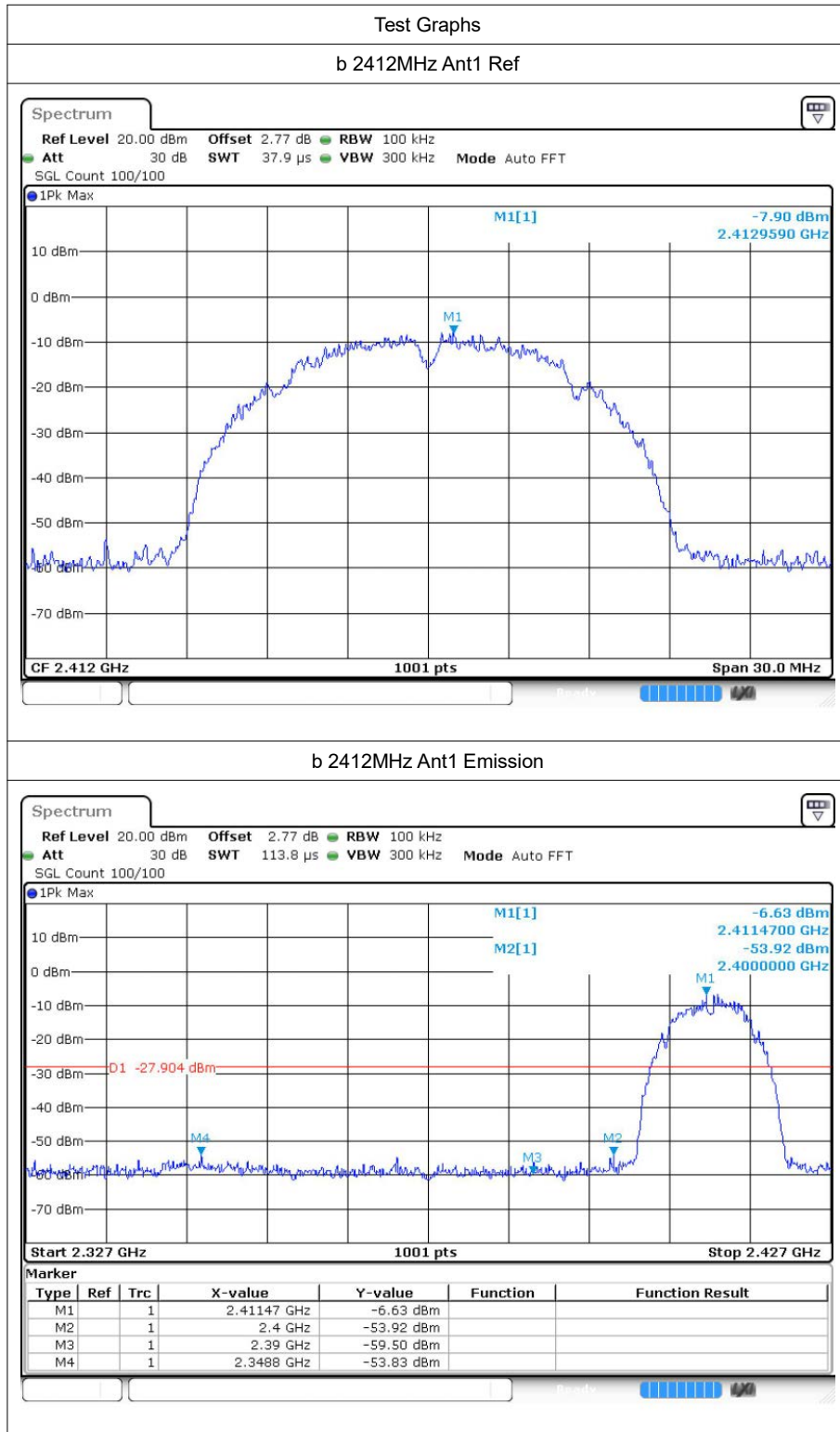


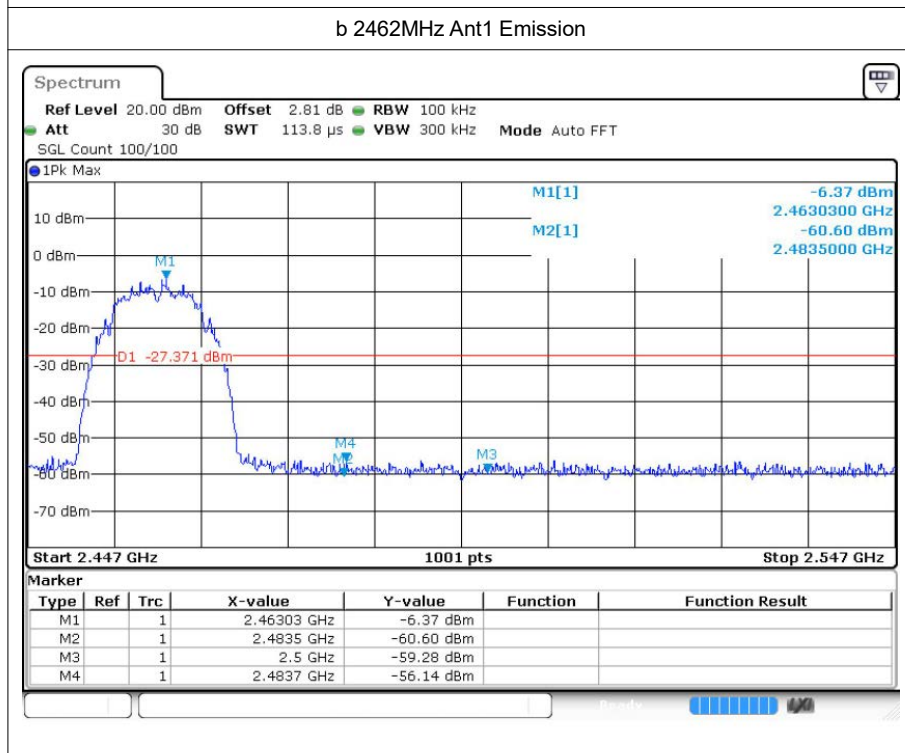
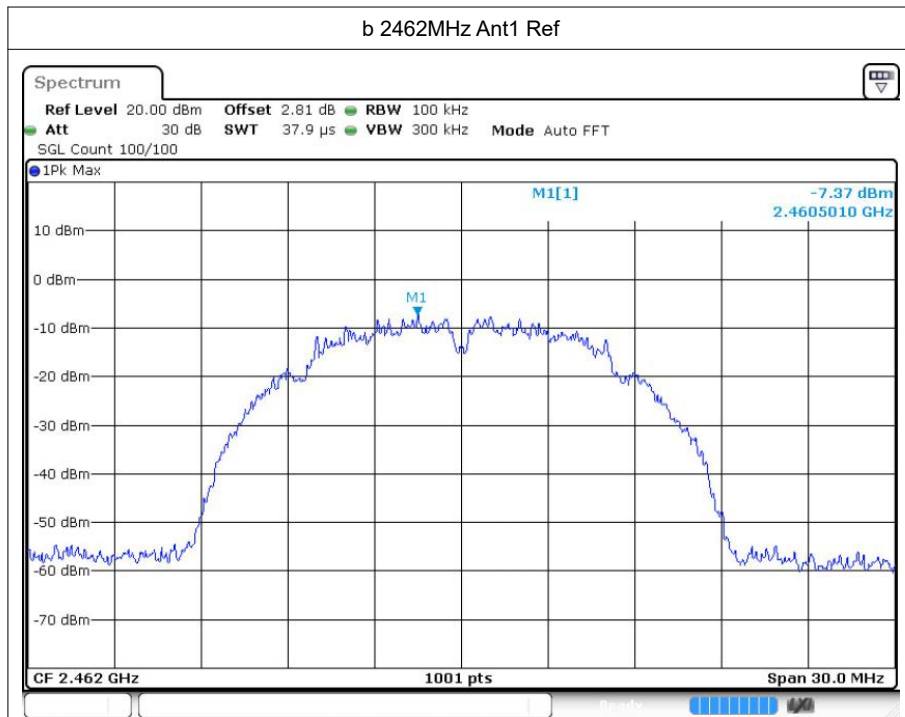
## 5 Band Edge

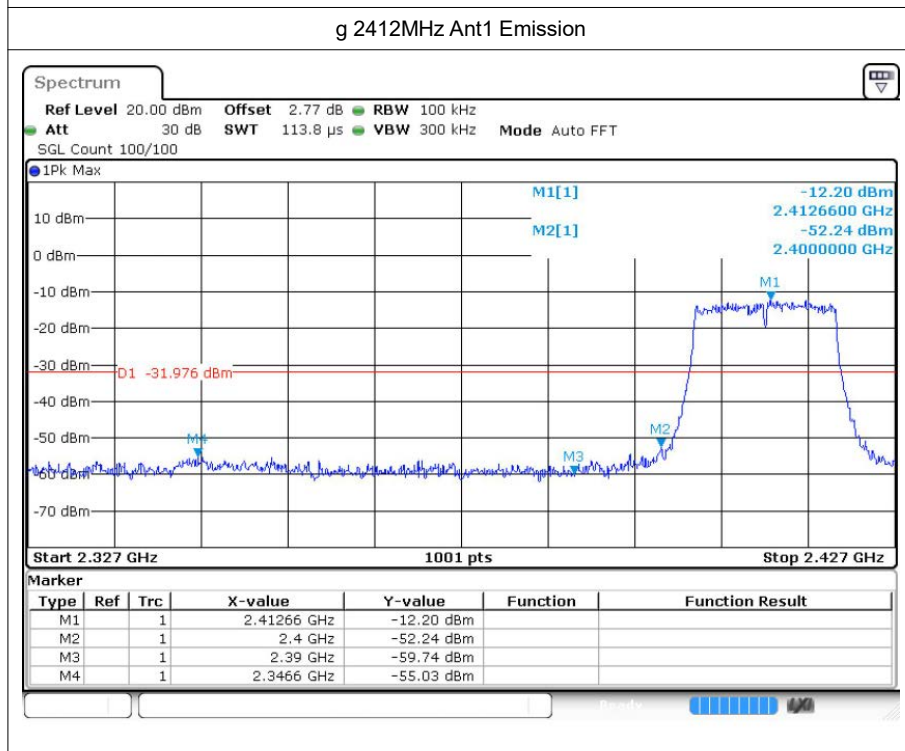
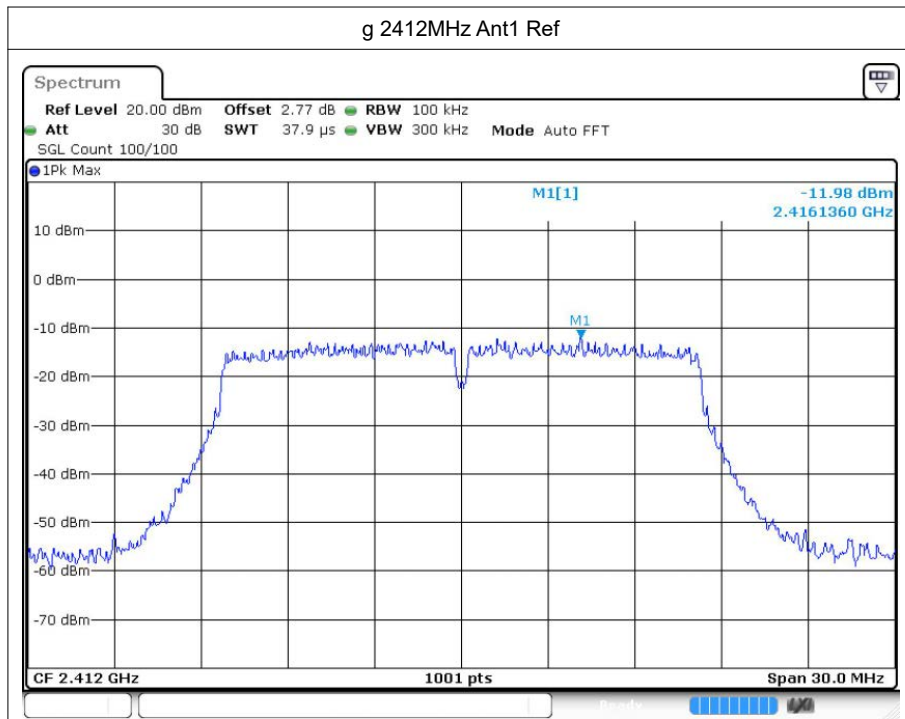
### 5.1 Test Result

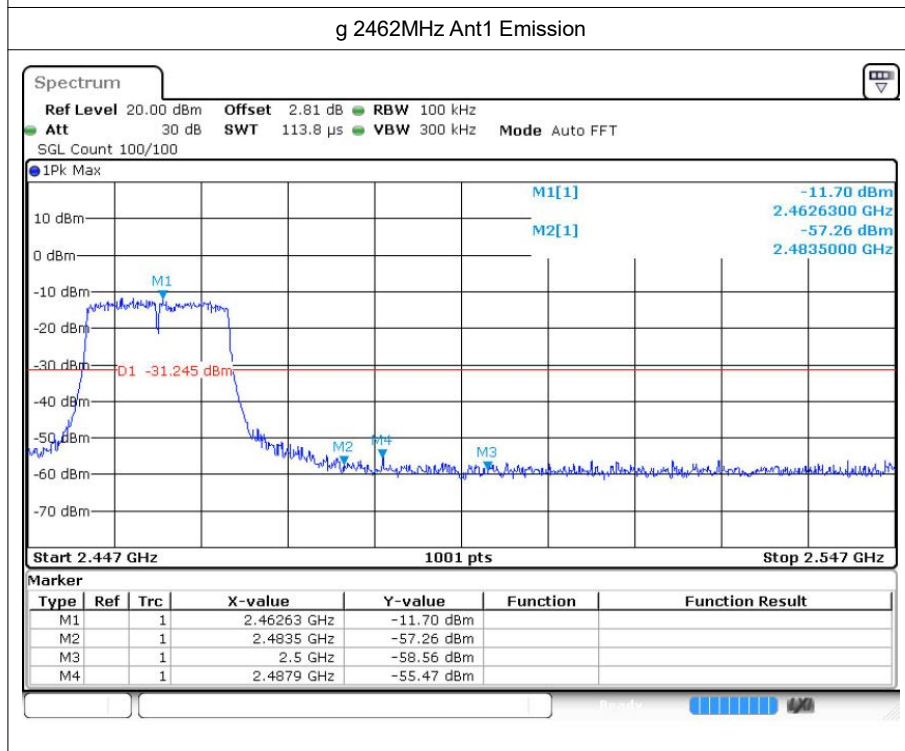
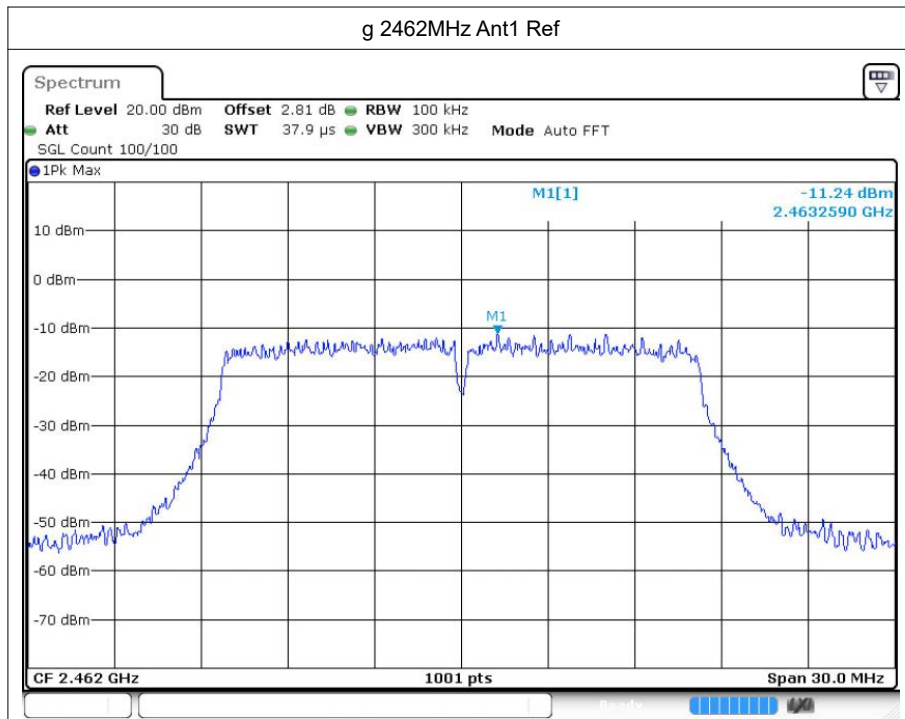
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-45.92	-20	Pass
b	2462	Ant1	-48.77	-20	Pass
g	2412	Ant1	-43.05	-20	Pass
g	2462	Ant1	-44.22	-20	Pass
n20	2412	Ant1	-43.12	-20	Pass
n20	2462	Ant1	-43.6	-20	Pass
n40	2422	Ant1	-41.34	-20	Pass
n40	2452	Ant1	-37.78	-20	Pass

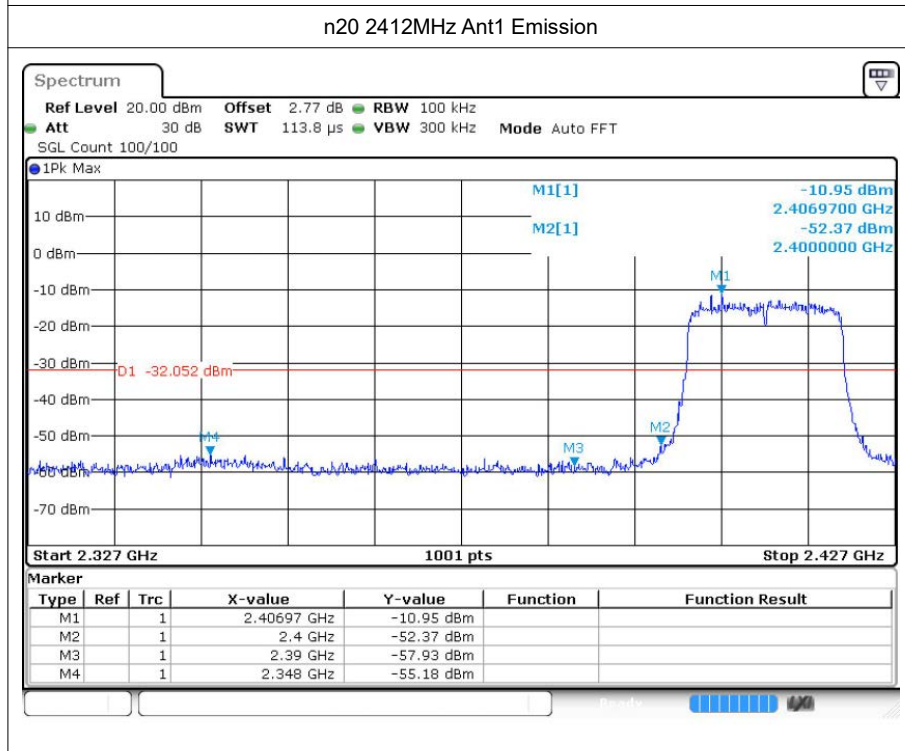
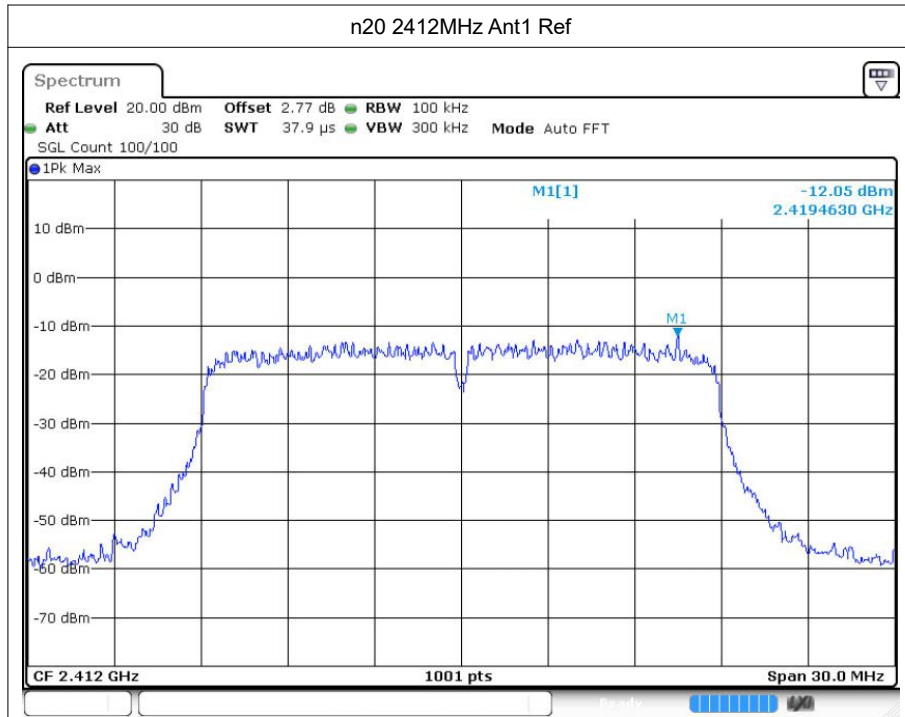
## 5.2 Test Graphs

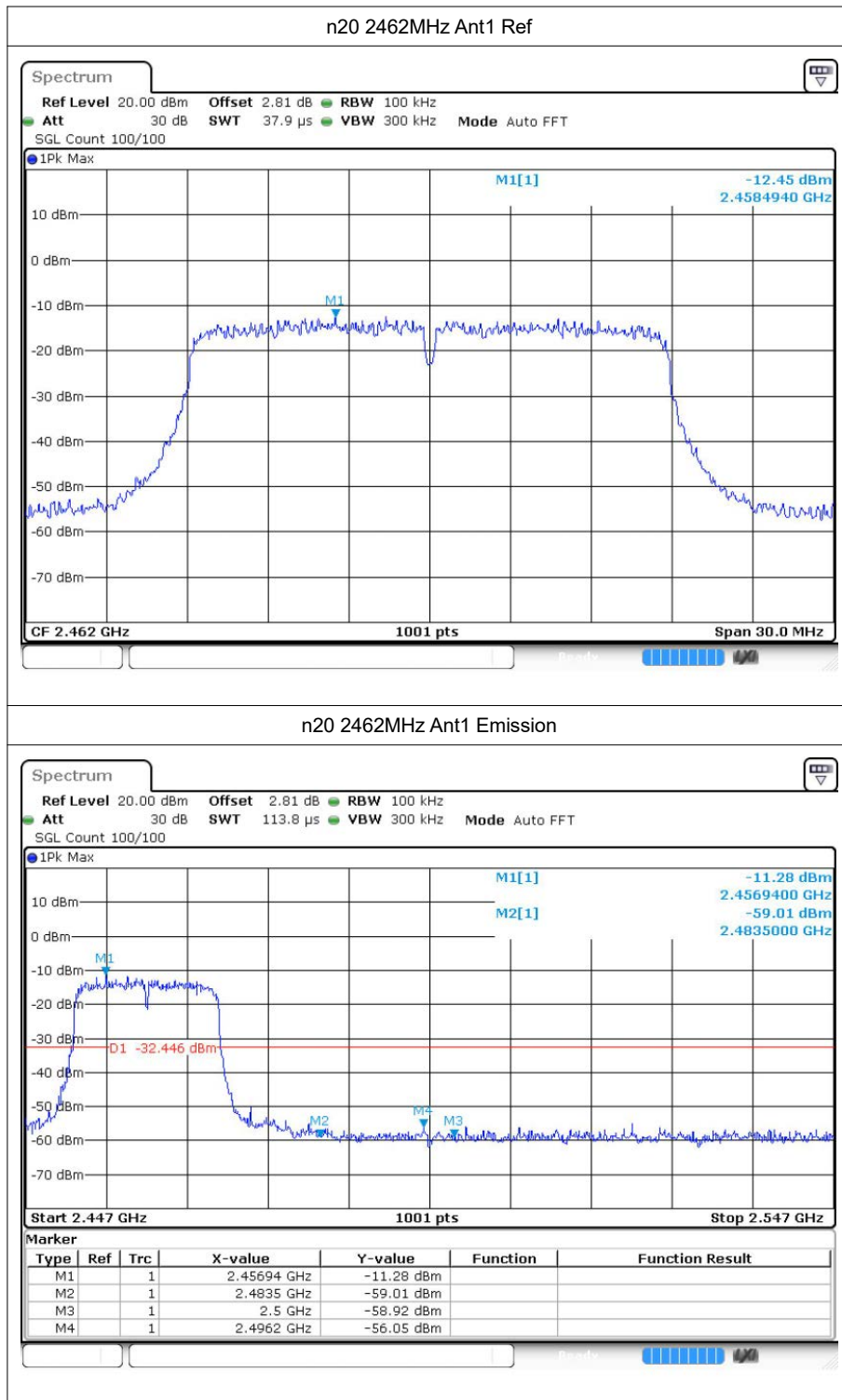


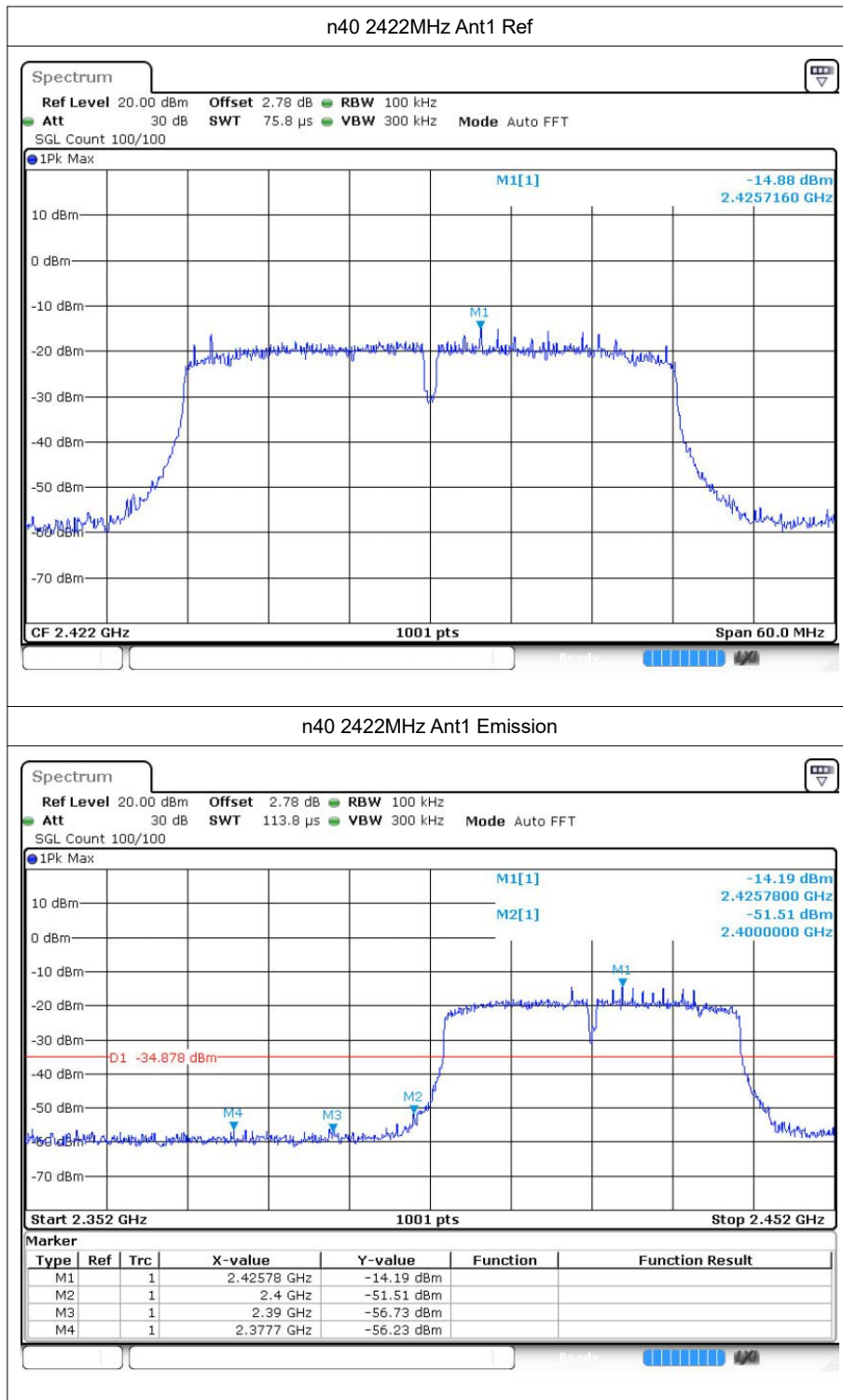




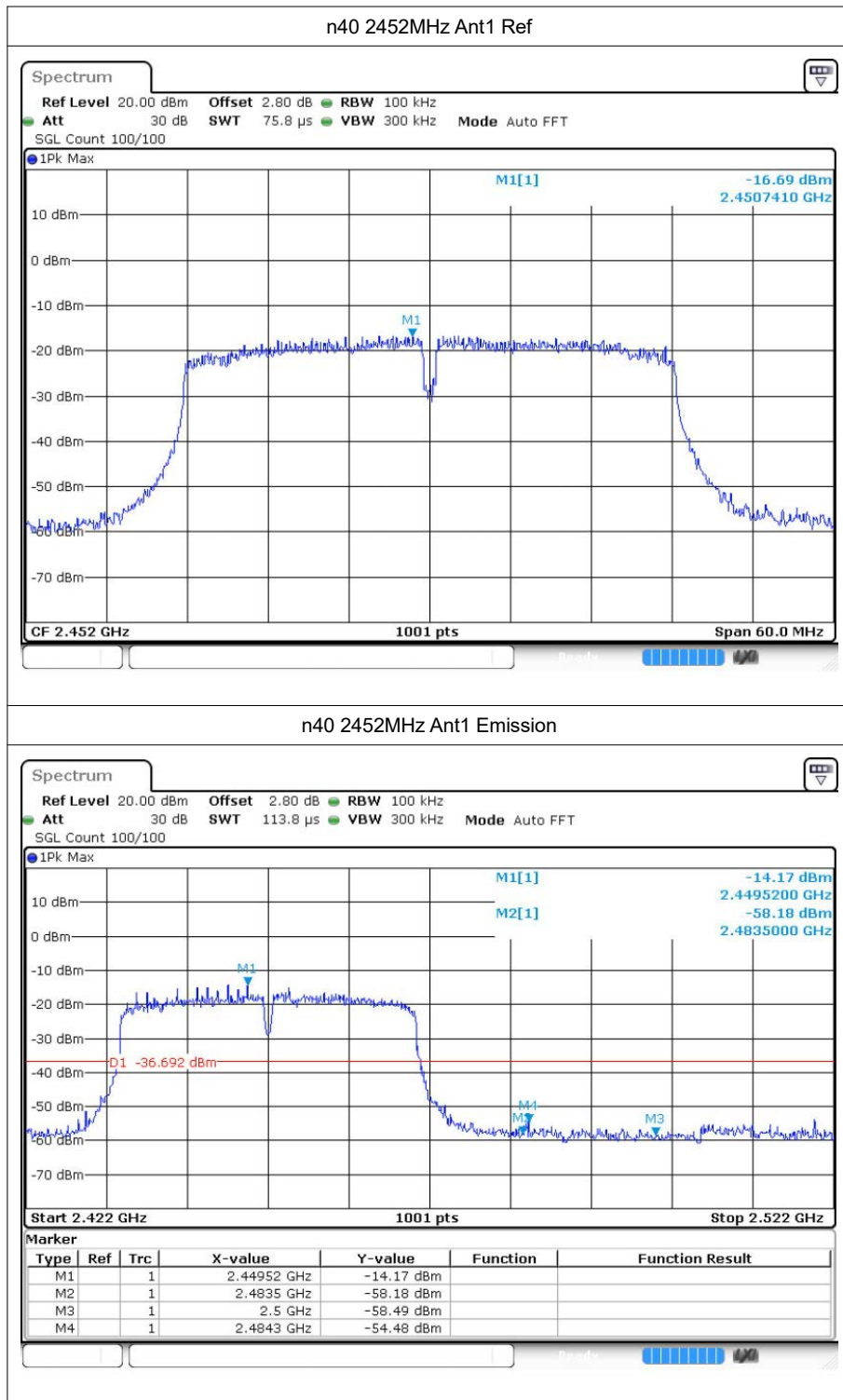












## 6 Conducted RF Spurious Emission

### 6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-34.73	-20	Pass
b	2437	Ant1	-35.37	-20	Pass
b	2462	Ant1	-36.35	-20	Pass
g	2412	Ant1	-30.28	-20	Pass
g	2437	Ant1	-29.96	-20	Pass
g	2462	Ant1	-31.15	-20	Pass
n20	2412	Ant1	-30.17	-20	Pass
n20	2437	Ant1	-29.11	-20	Pass
n20	2462	Ant1	-30.77	-20	Pass
n40	2422	Ant1	-29.24	-20	Pass
n40	2437	Ant1	-27.23	-20	Pass
n40	2452	Ant1	-27.41	-20	Pass

## 6.2 Test Graphs

