Appendix C

RF Test Data for 2.4GWIFI (Conducted Measurement)

Product Name: Viewedge Tab 11

Trade Mark: N/A

Test Model: V11

Environmental Conditions

Temperature:	25.6° C
Relative Humidity:	52.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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1 Duty Cycle

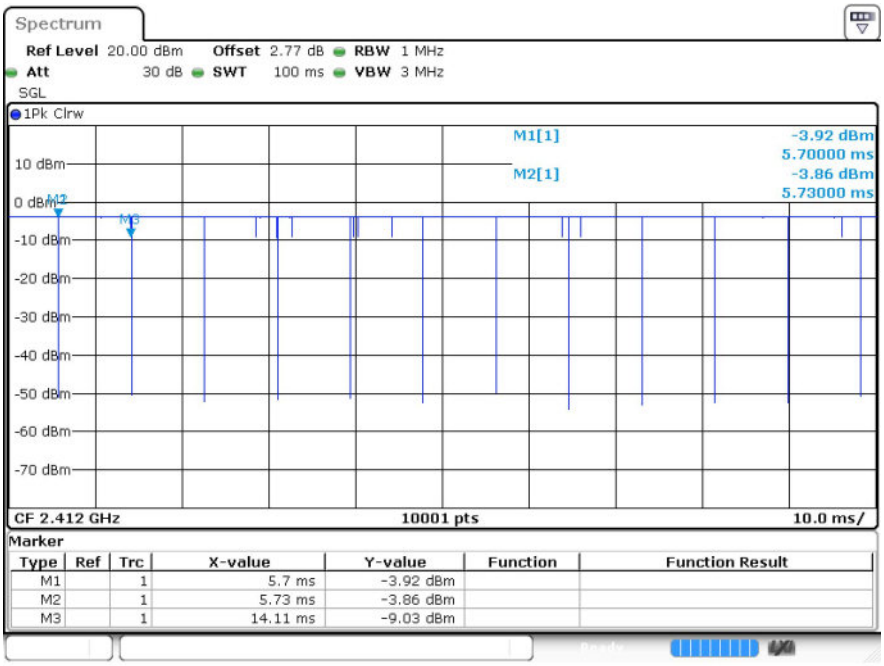
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor	1/T (kHz)
b	2412	Ant1	99.78	0.01	0.12
b	2437	Ant1	99.79	0.01	0.12
b	2462	Ant1	99.79	0.01	0.12
g	2412	Ant1	98.22	0.08	0.72
g	2437	Ant1	98.19	0.08	0.72
g	2462	Ant1	98.2	0.08	0.72
n20	2412	Ant1	98.07	0.08	0.77
n20	2437	Ant1	98.08	0.08	0.77
n20	2462	Ant1	98.07	0.08	0.77

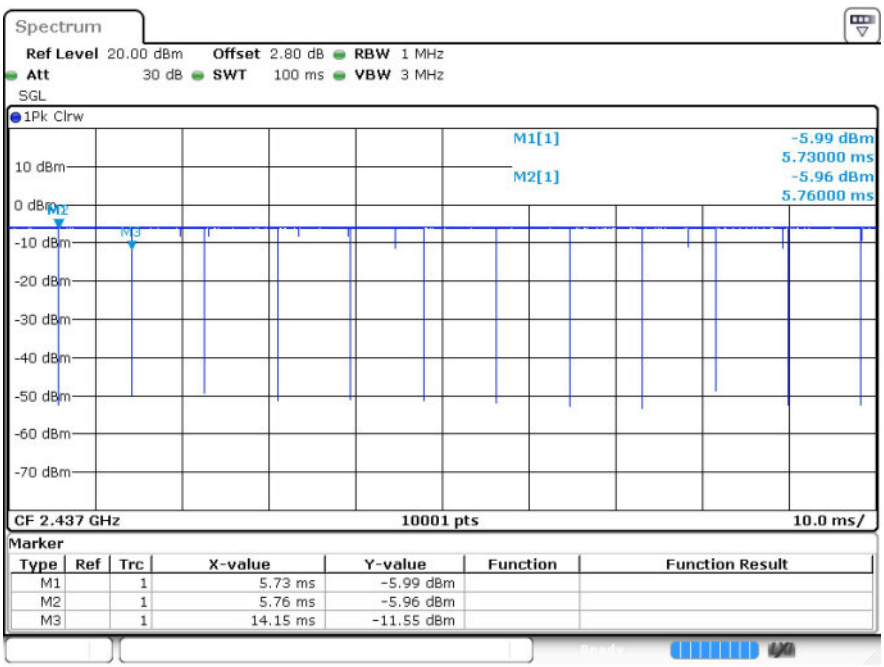
1.2 Test Graphs

Test Graphs

b 2412MHz Ant1

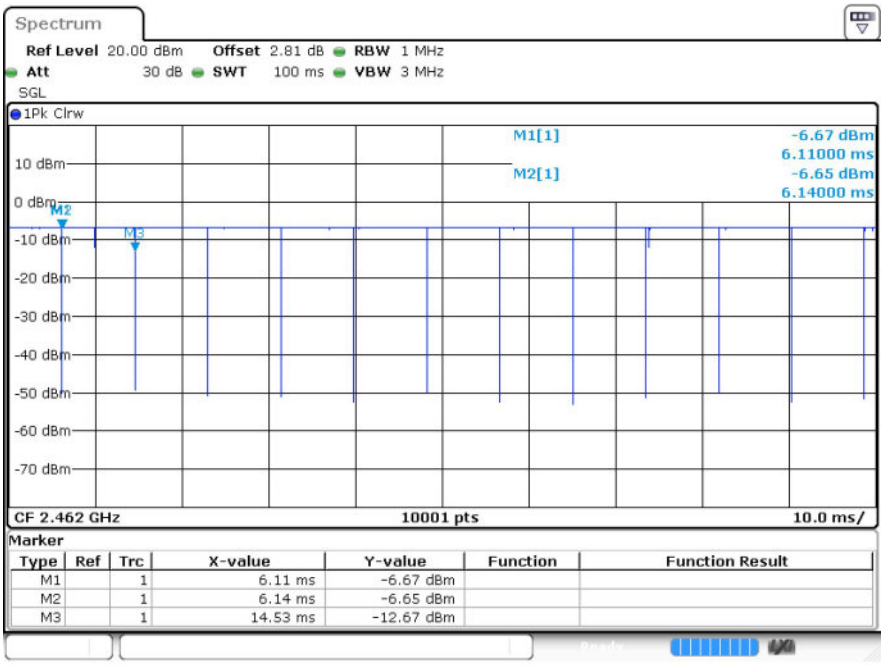


b 2437MHz Ant1

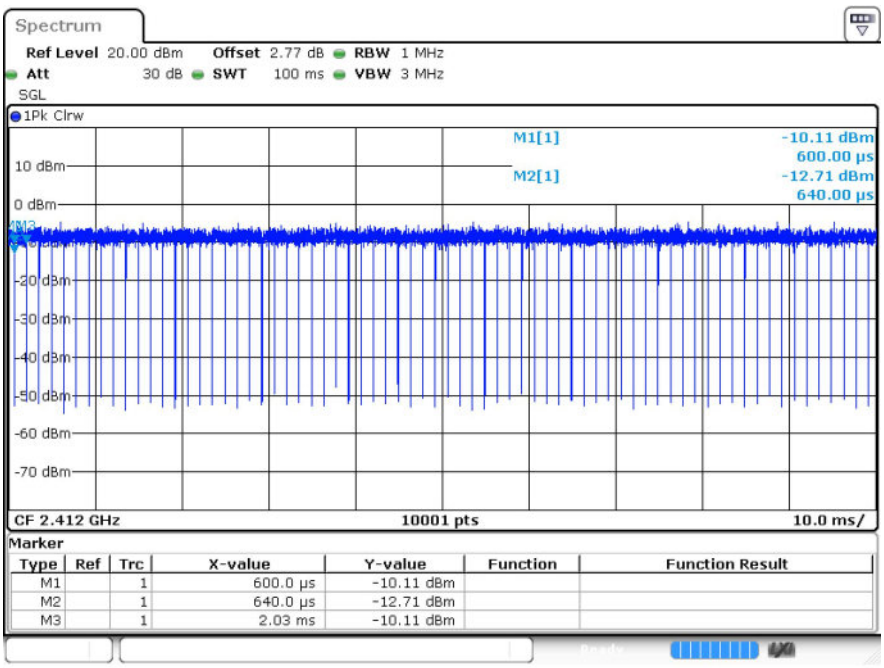


Test Graphs

b 2462MHz Ant1

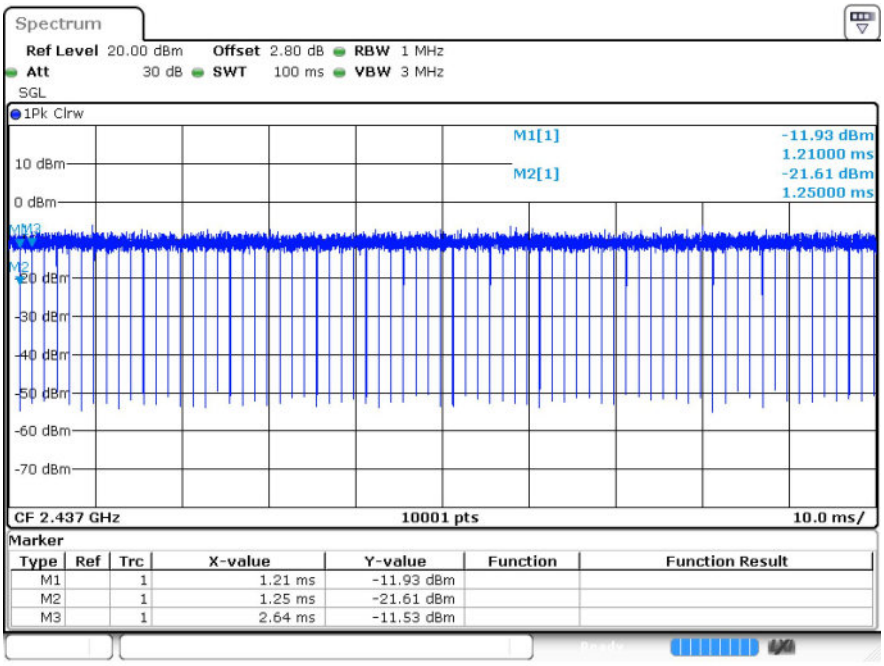


g 2412MHz Ant1

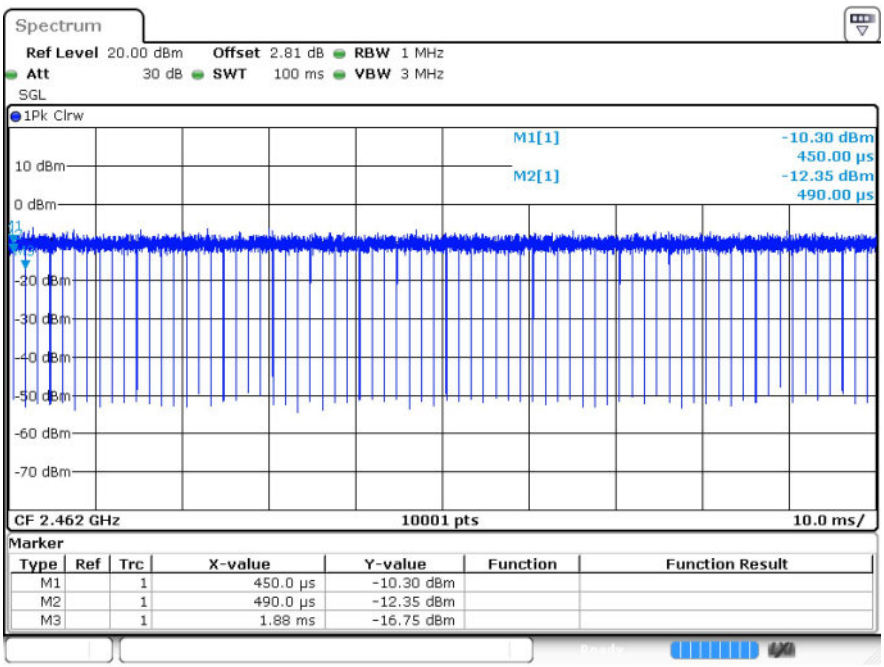


Test Graphs

g 2437MHz Ant1

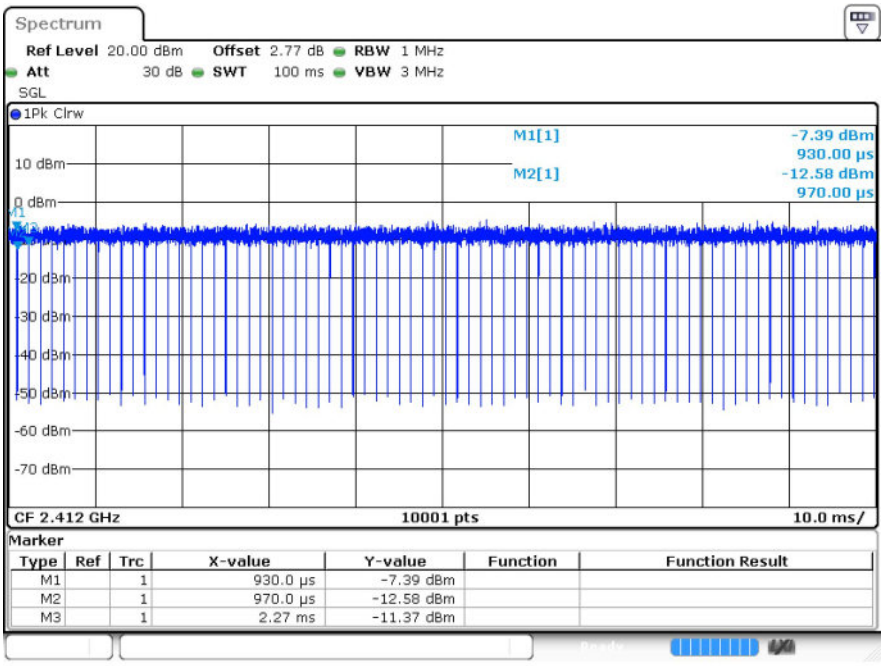


g 2462MHz Ant1

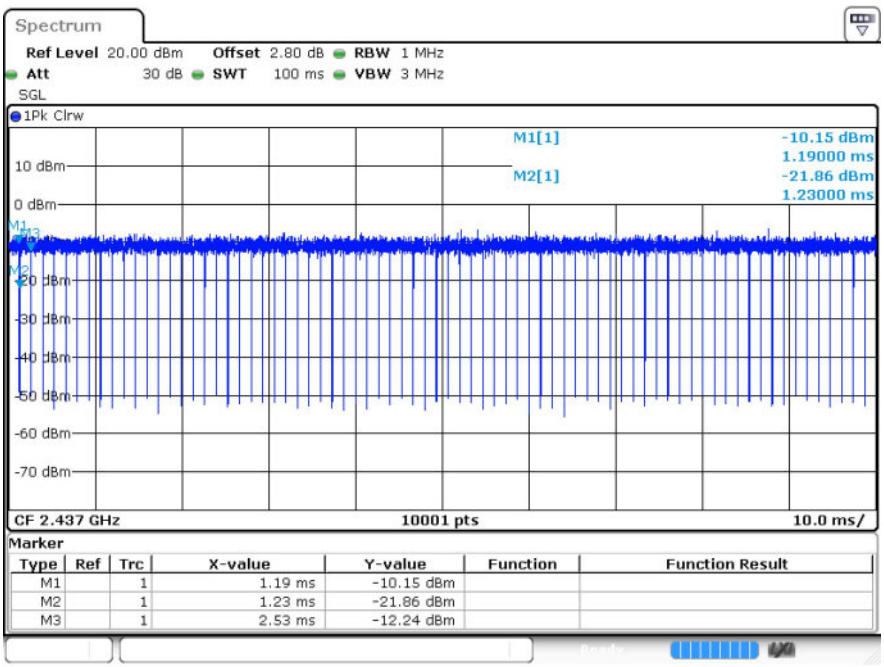


Test Graphs

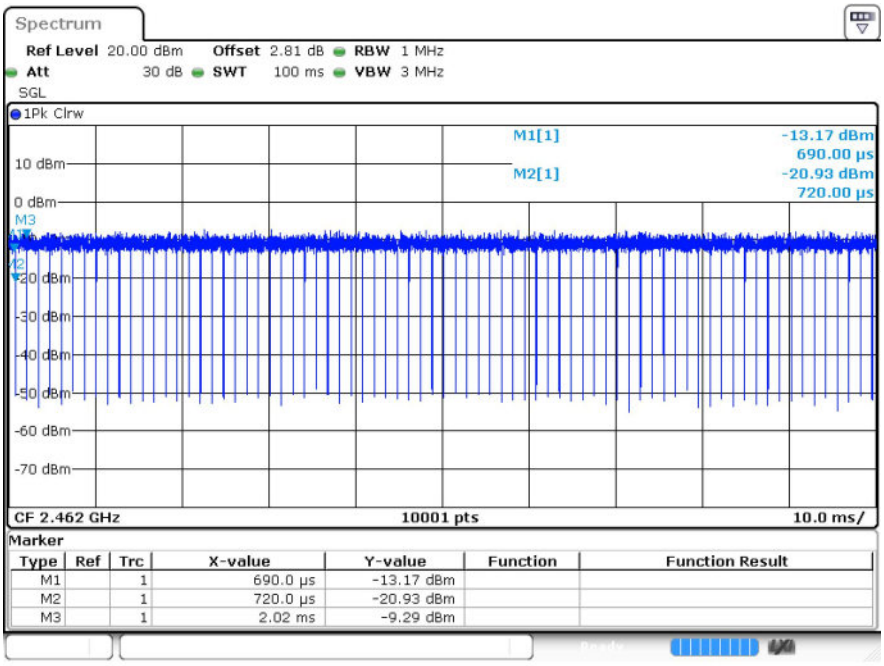
n20 2412MHz Ant1



n20 2437MHz Ant1



Test Graphs
n20 2462MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	3.89	30	Pass
b	2437	Ant1	1.67	30	Pass
b	2462	Ant1	1.30	30	Pass
g	2412	Ant1	3.55	30	Pass
g	2437	Ant1	1.95	30	Pass
g	2462	Ant1	1.25	30	Pass
n20	2412	Ant1	3.45	30	Pass
n20	2437	Ant1	2.04	30	Pass
n20	2462	Ant1	1.38	30	Pass

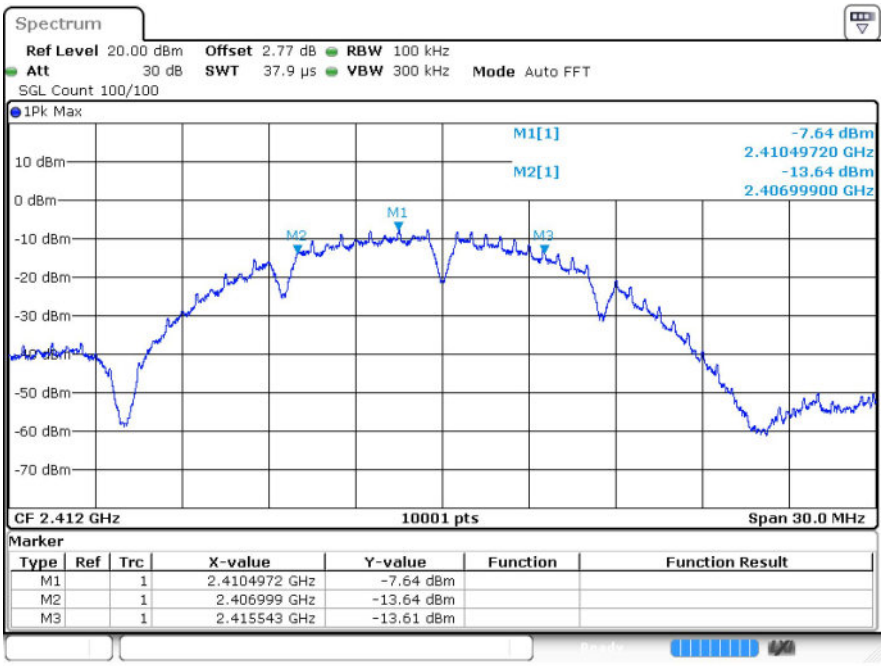
3 -6dB Bandwidth

3.1 Test Result

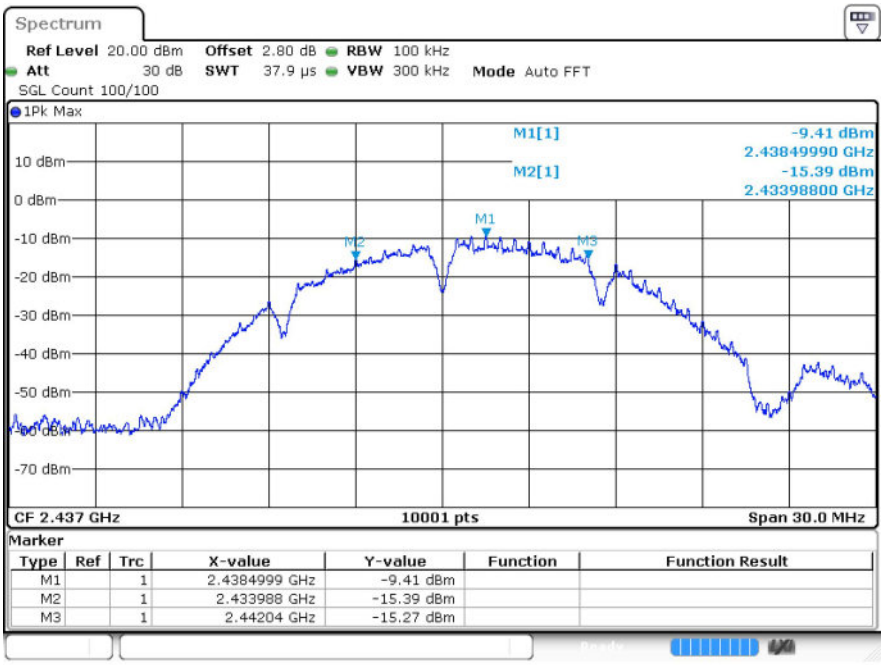
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.544	0.5	Pass
b	2437	Ant1	8.052	0.5	Pass
b	2462	Ant1	9.063	0.5	Pass
g	2412	Ant1	13.326	0.5	Pass
g	2437	Ant1	7.059	0.5	Pass
g	2462	Ant1	15.849	0.5	Pass
n20	2412	Ant1	11.301	0.5	Pass
n20	2437	Ant1	9.567	0.5	Pass
n20	2462	Ant1	13.941	0.5	Pass

3.2 Test Graphs

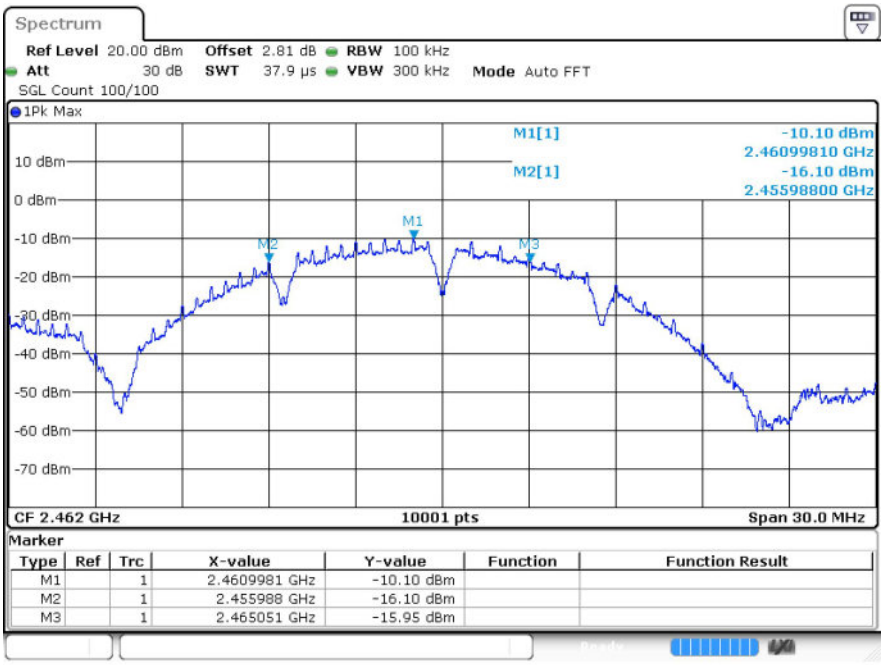
Test Graphs
b 2412MHz Ant1



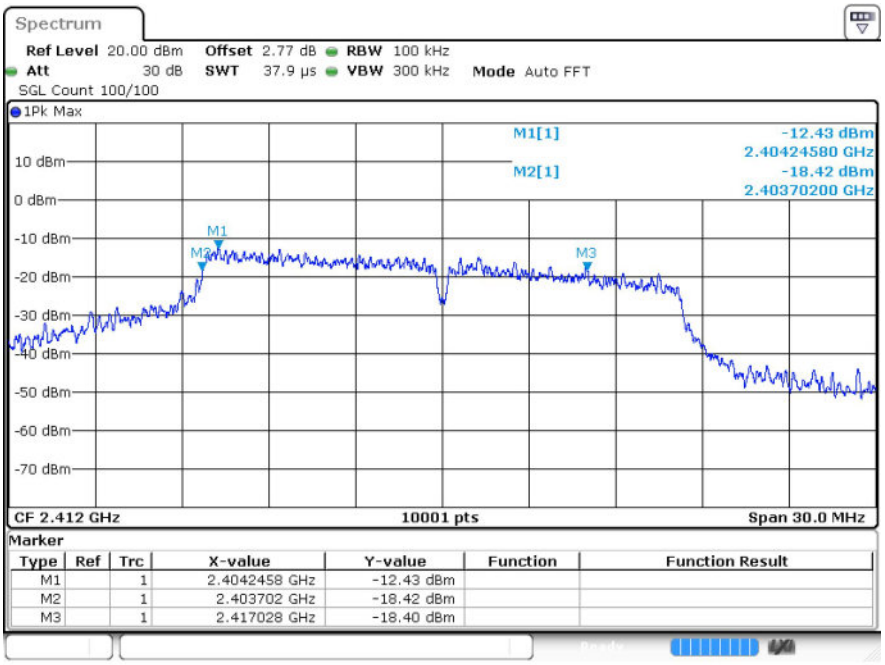
b 2437MHz Ant1



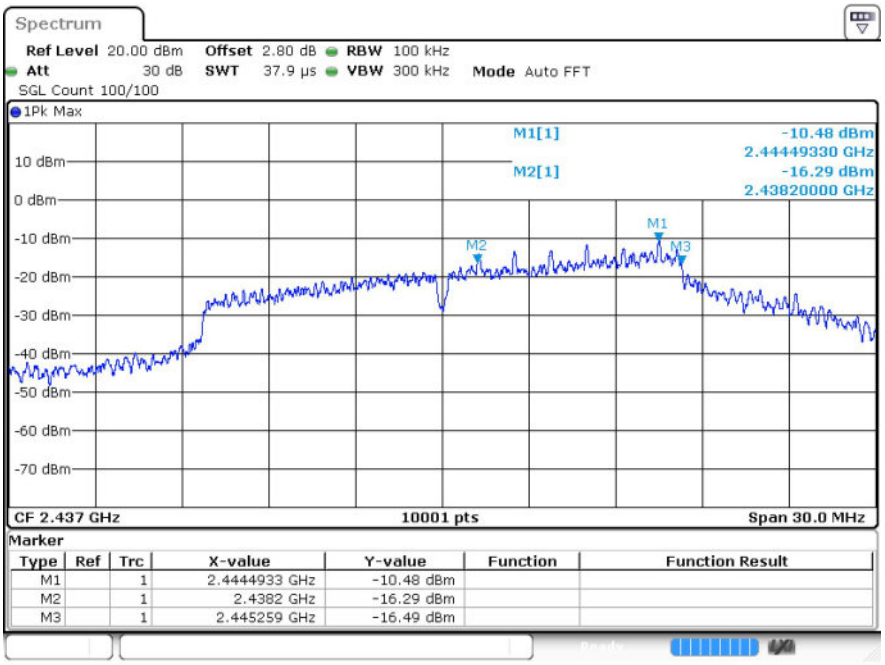
b 2462MHz Ant1



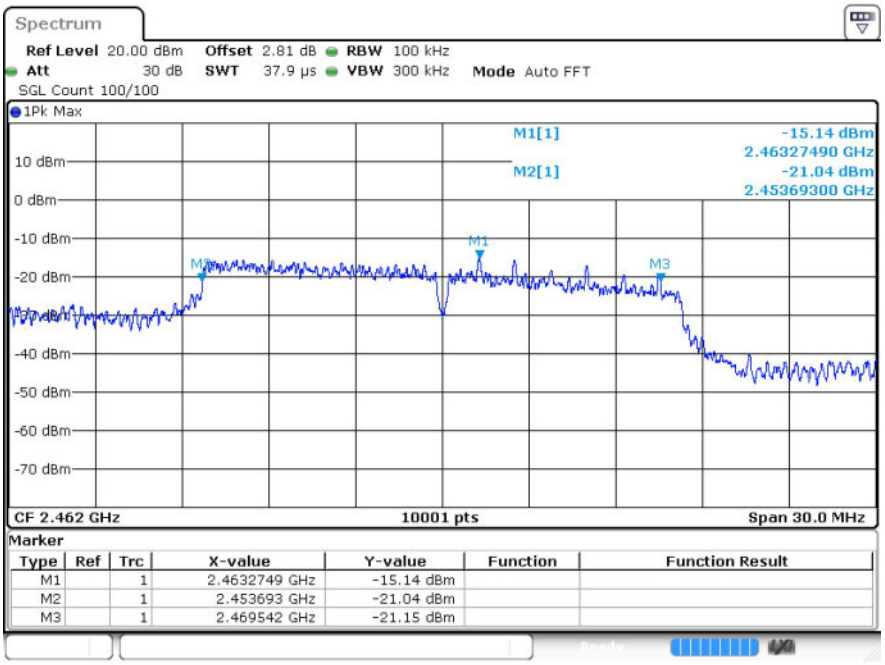
g 2412MHz Ant1



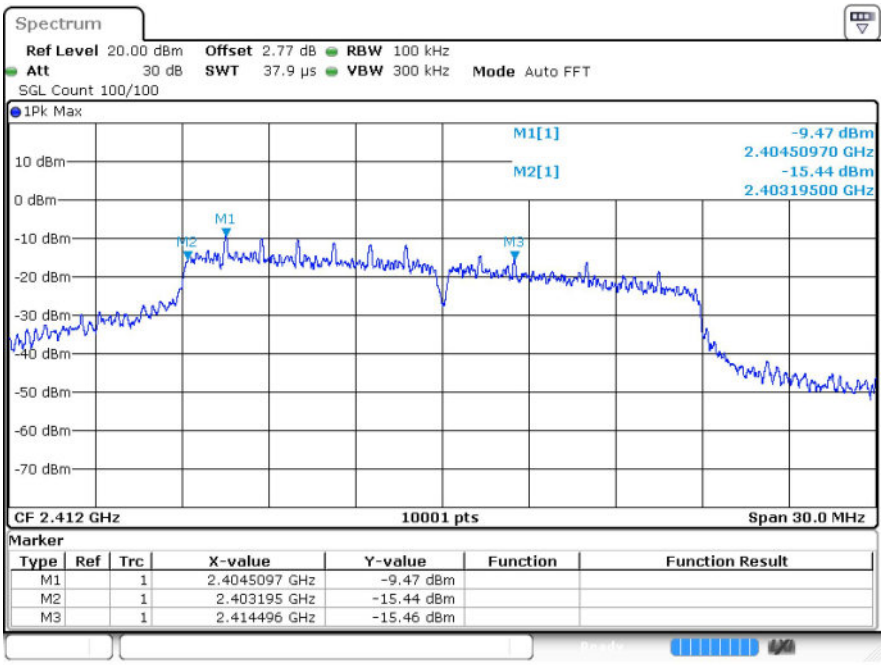
g 2437MHz Ant1



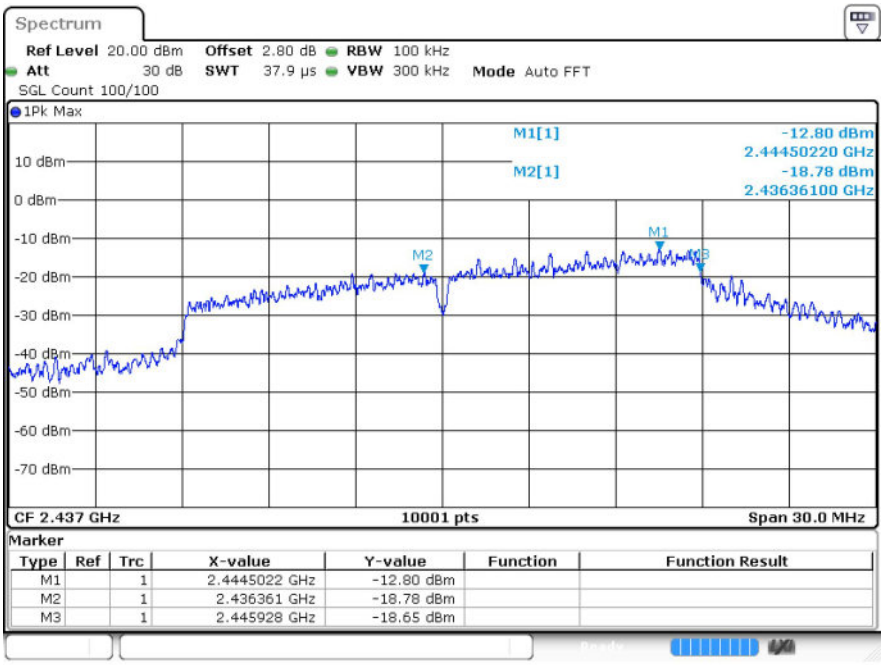
g 2462MHz Ant1



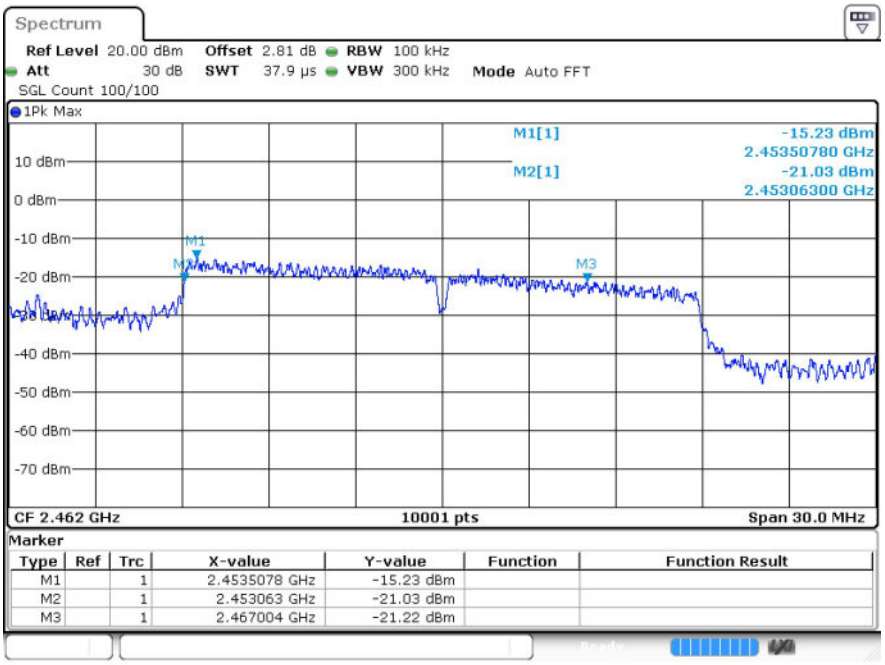
n20 2412MHz Ant1



n20 2437MHz Ant1



n20 2462MHz Ant1

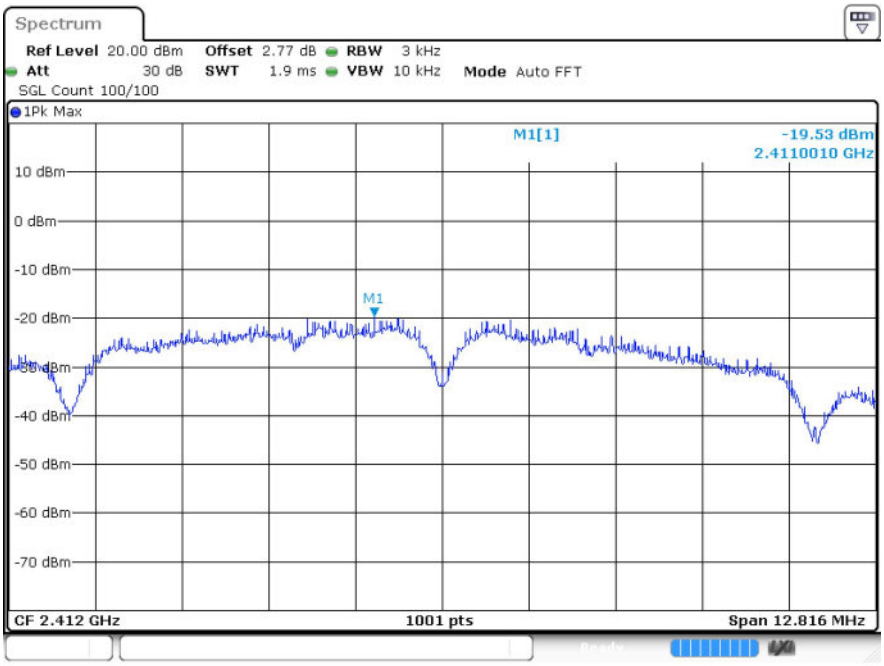
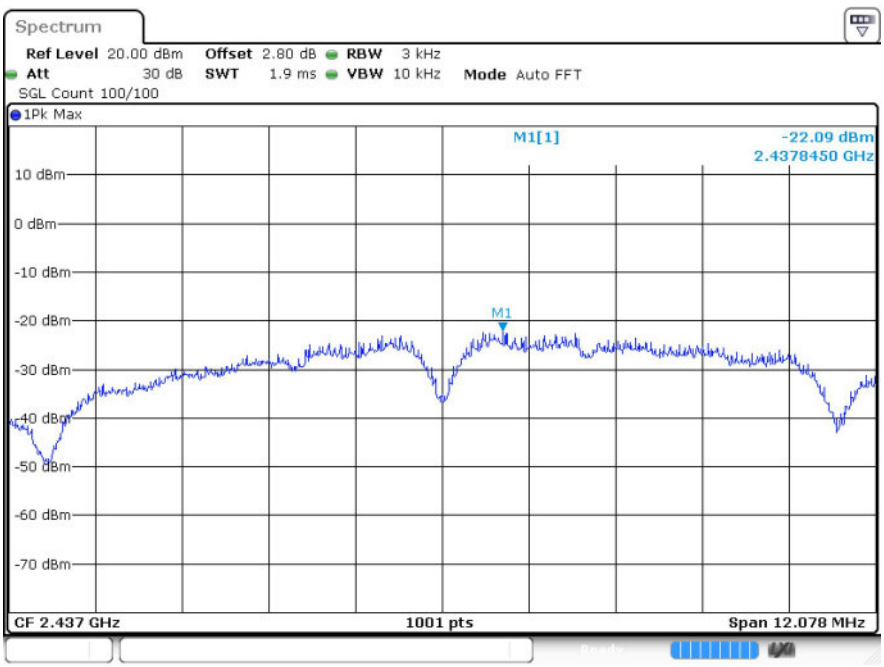


4 Maximum Power Spectral Density Level

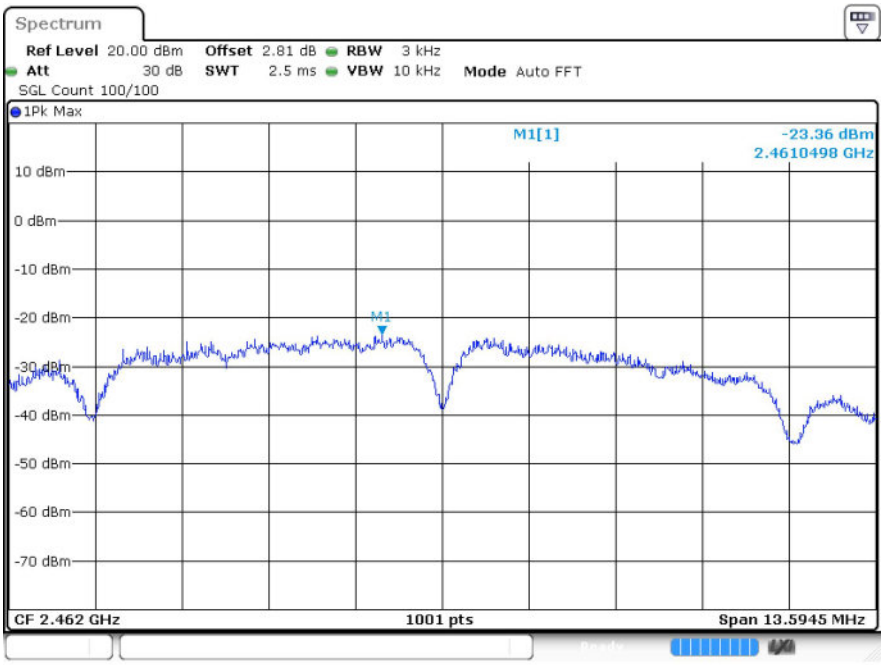
4.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-19.53	≤8	Pass
b	2437	Ant1	-22.09	≤8	Pass
b	2462	Ant1	-23.36	≤8	Pass
g	2412	Ant1	-23.66	≤8	Pass
g	2437	Ant1	-26.03	≤8	Pass
g	2462	Ant1	-25.99	≤8	Pass
n20	2412	Ant1	-23.4	≤8	Pass
n20	2437	Ant1	-24.95	≤8	Pass
n20	2462	Ant1	-26.22	≤8	Pass

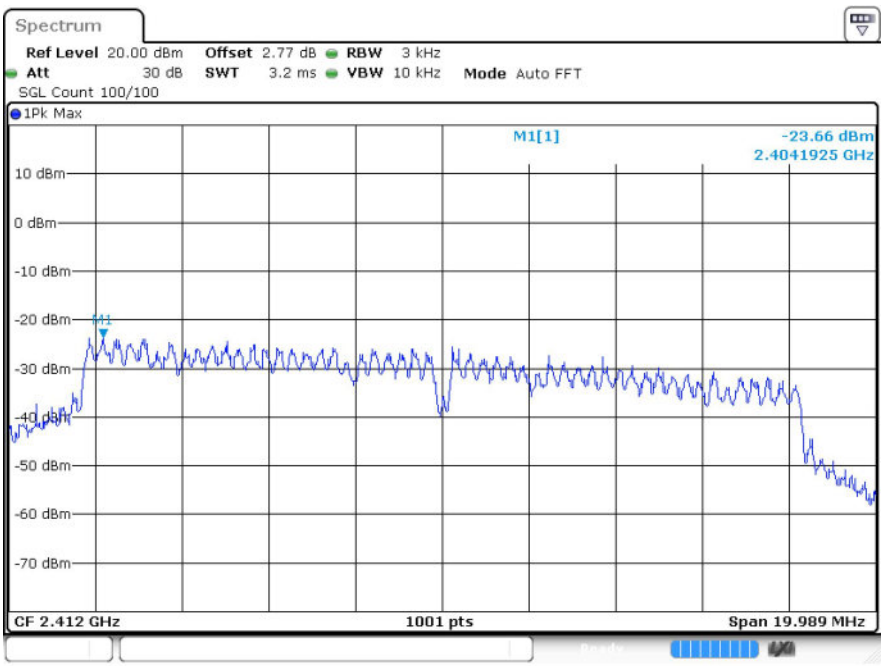
4.2 Test Graphs

Test Graphs
b 2412MHz Ant1

b 2437MHz Ant1


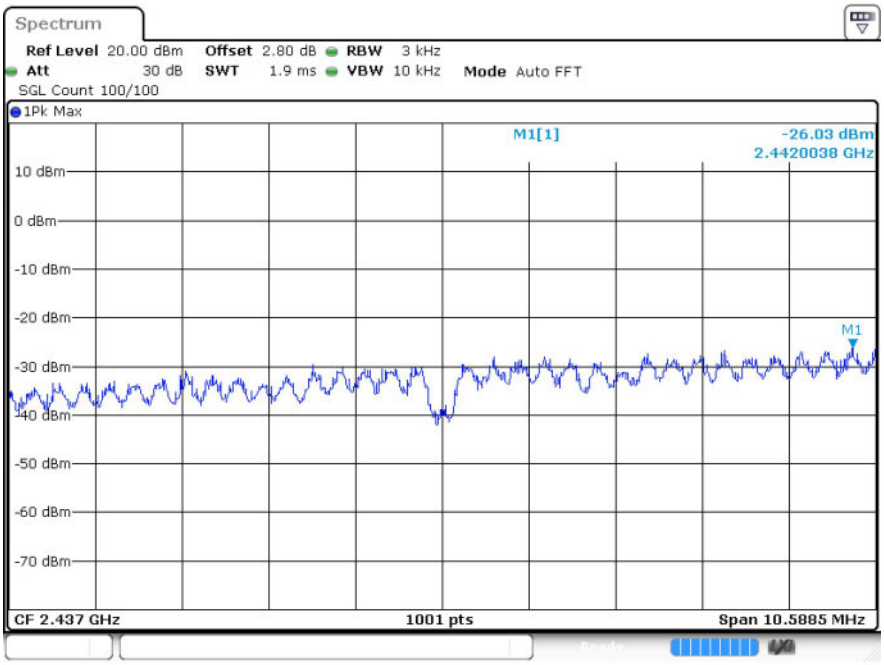
b 2462MHz Ant1



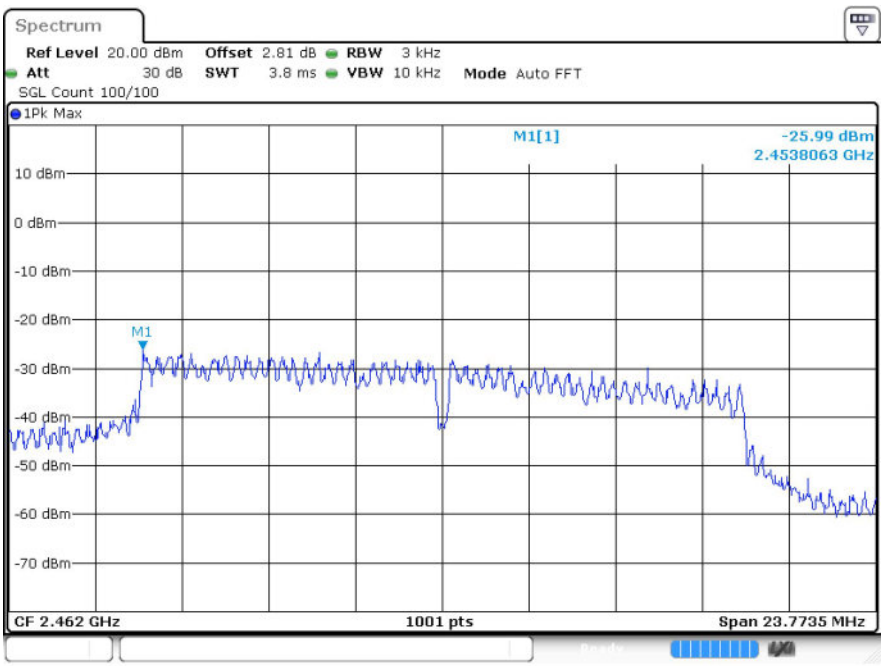
g 2412MHz Ant1



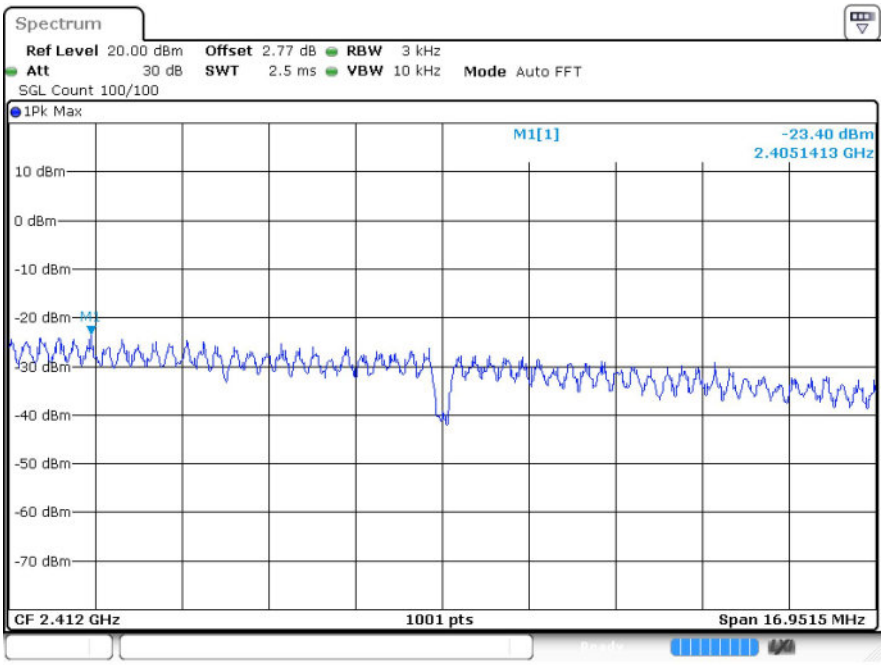
g 2437MHz Ant1



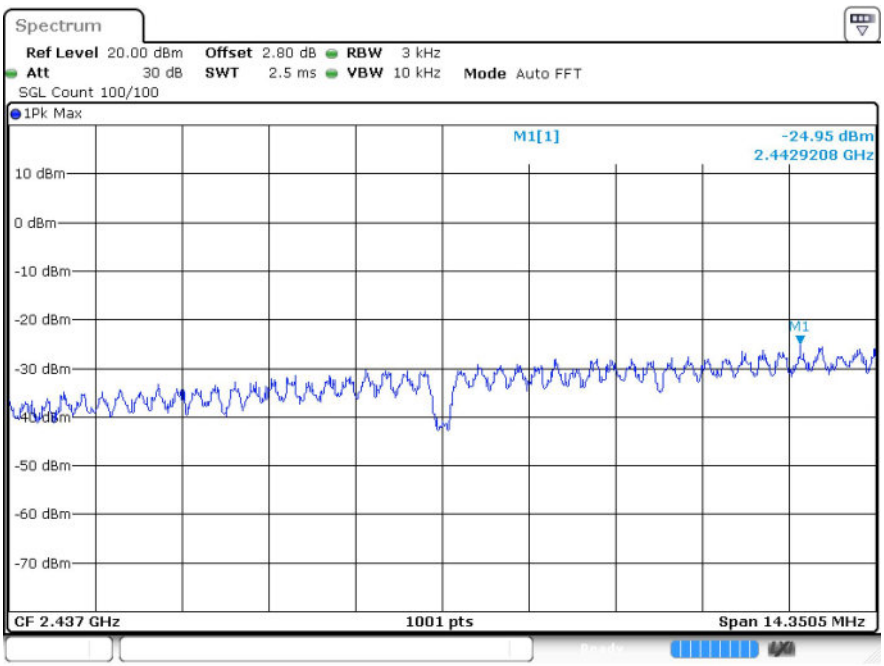
g 2462MHz Ant1



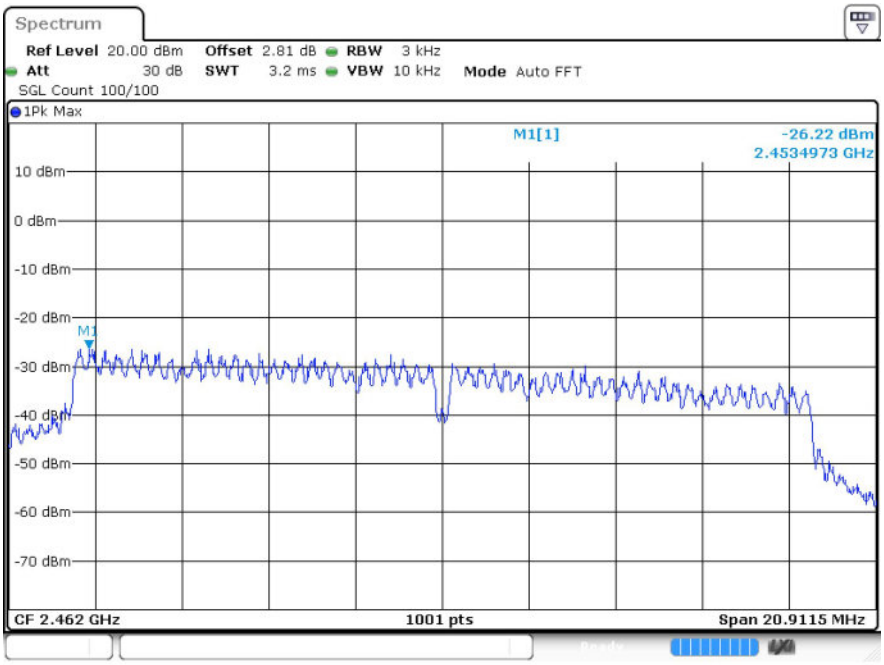
n20 2412MHz Ant1



n20 2437MHz Ant1



n20 2462MHz Ant1



5 Band Edge

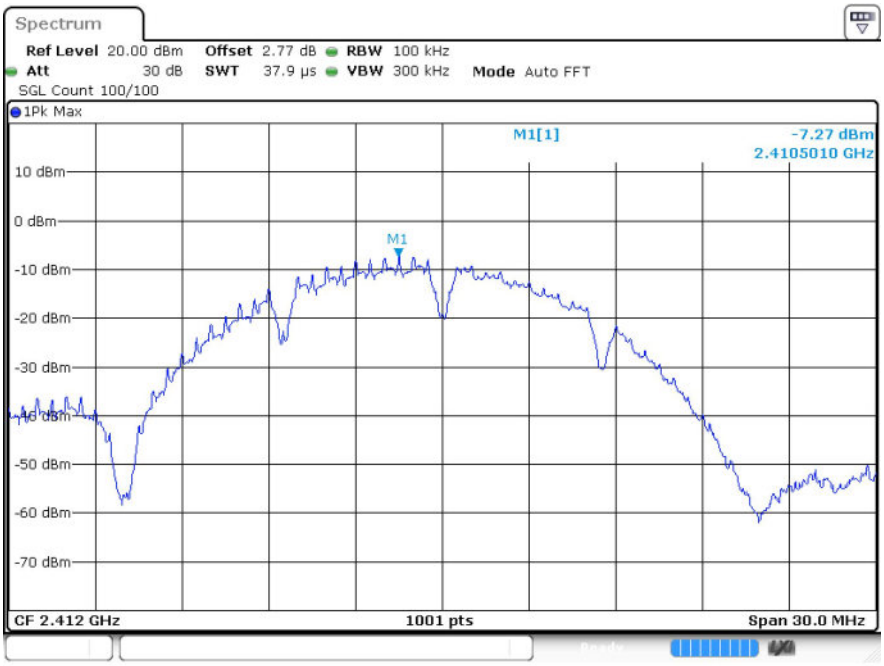
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-47.37	-20	Pass
b	2462	Ant1	-46.25	-20	Pass
g	2412	Ant1	-39.32	-20	Pass
g	2462	Ant1	-30.88	-20	Pass
n20	2412	Ant1	-34.23	-20	Pass
n20	2462	Ant1	-33.51	-20	Pass

5.2 Test Graphs

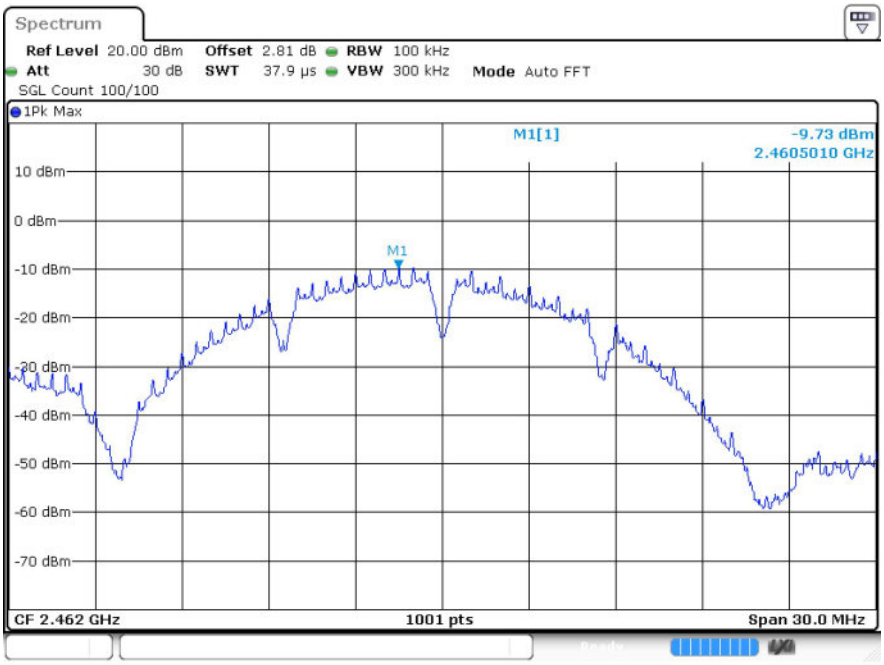
Test Graphs

b 2412MHz Ant1 Ref

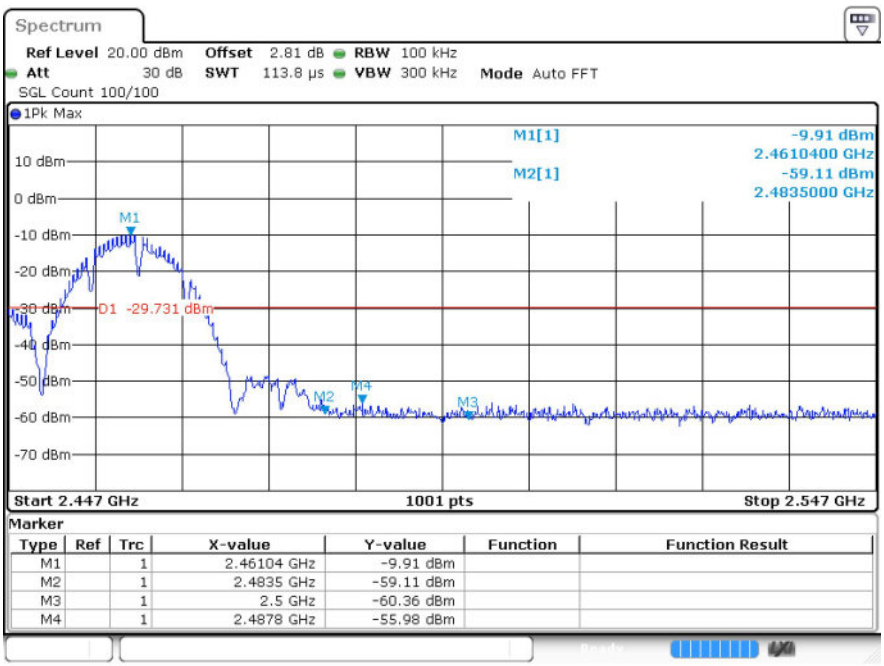


b 2412MHz Ant1 Emission

b 2462MHz Ant1 Ref



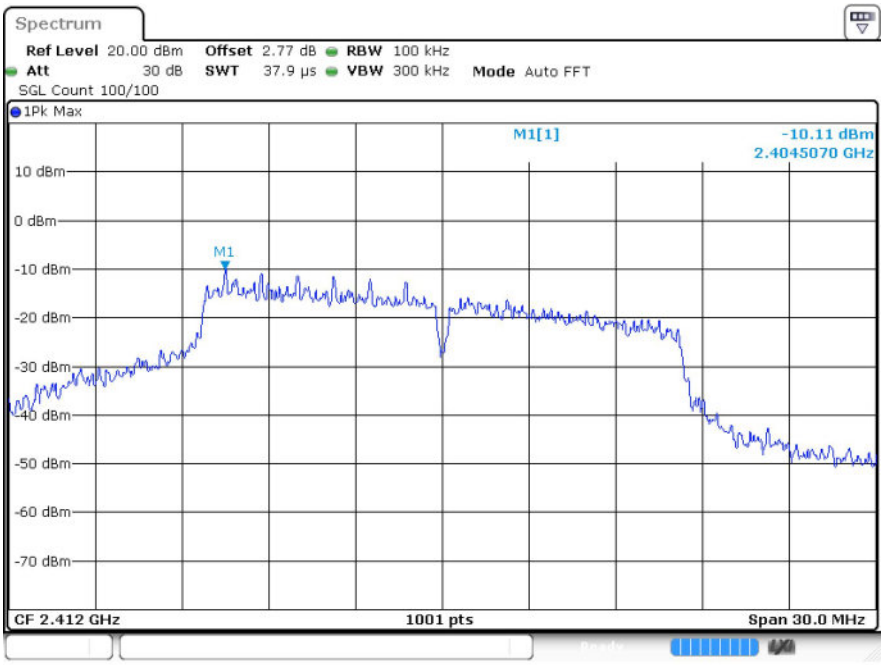
b 2462MHz Ant1 Emission



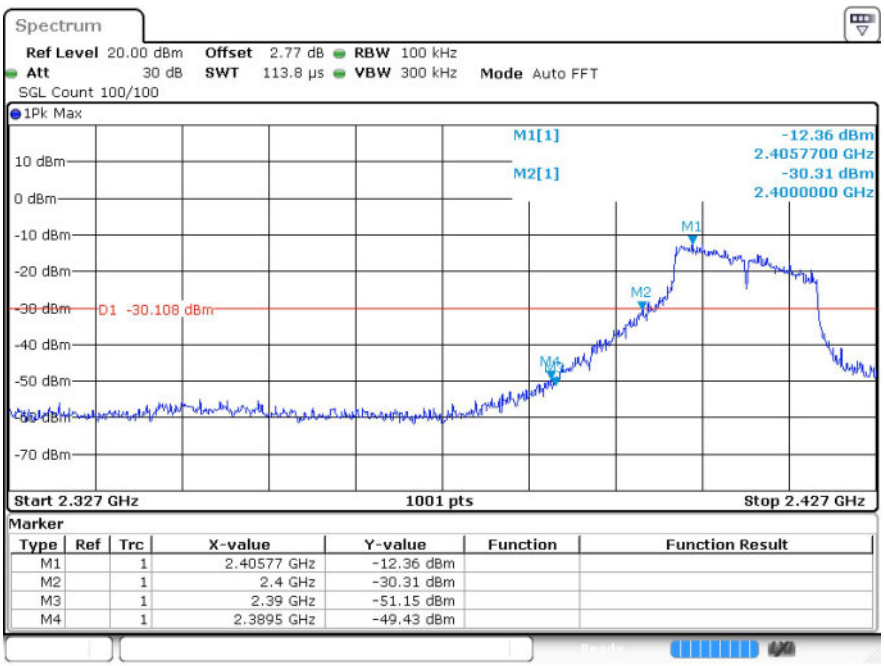
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46104 GHz	-9.91 dBm		
M2		1	2.4835 GHz	-59.11 dBm		
M3		1	2.5 GHz	-60.36 dBm		
M4		1	2.4878 GHz	-55.98 dBm		

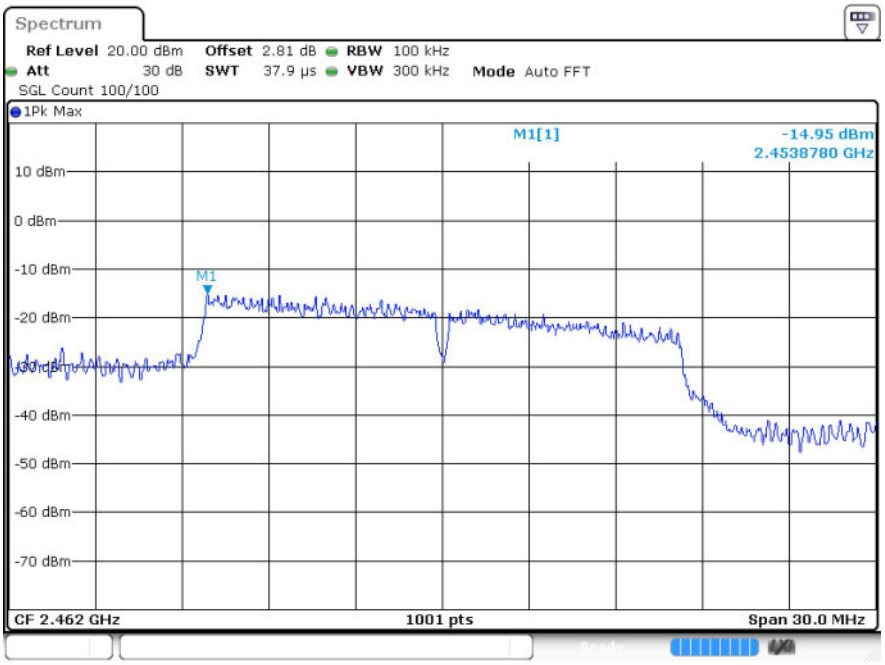
g 2412MHz Ant1 Ref



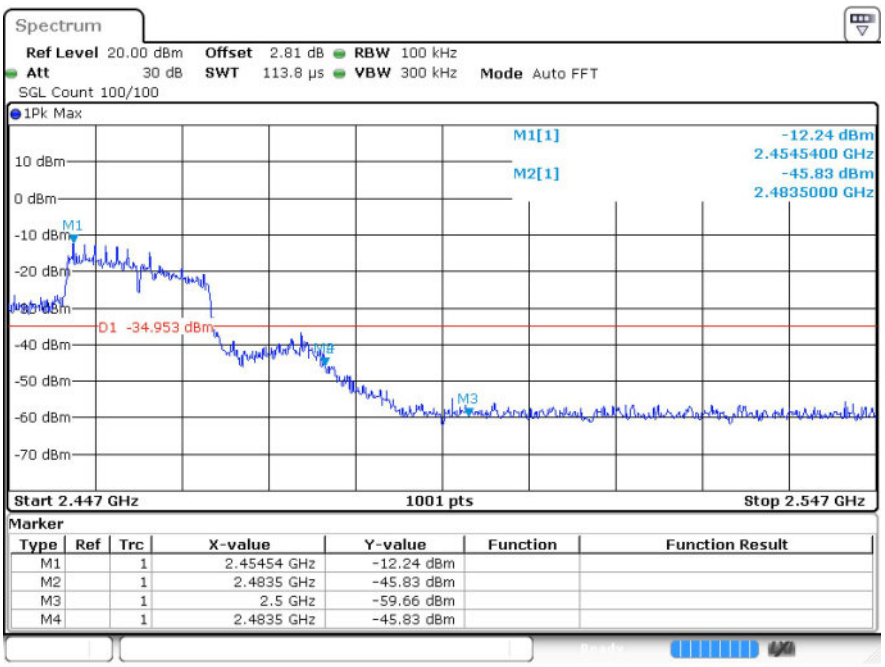
g 2412MHz Ant1 Emission



g 2462MHz Ant1 Ref

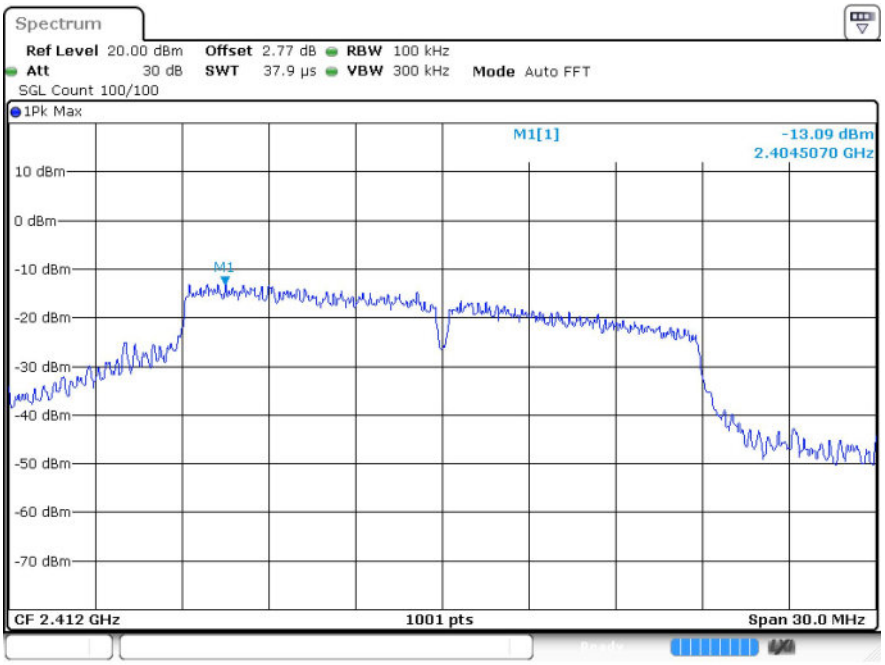


g 2462MHz Ant1 Emission



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45454 GHz	-12.24 dBm		
M2		1	2.4835 GHz	-45.83 dBm		
M3		1	2.5 GHz	-59.66 dBm		
M4		1	2.4835 GHz	-45.83 dBm		

n20 2412MHz Ant1 Ref

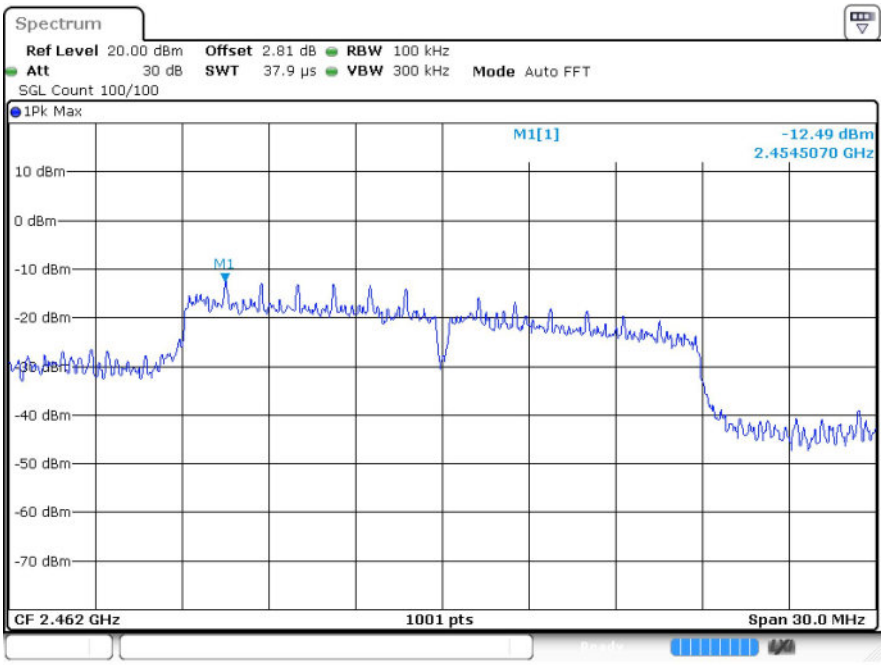


n20 2412MHz Ant1 Emission

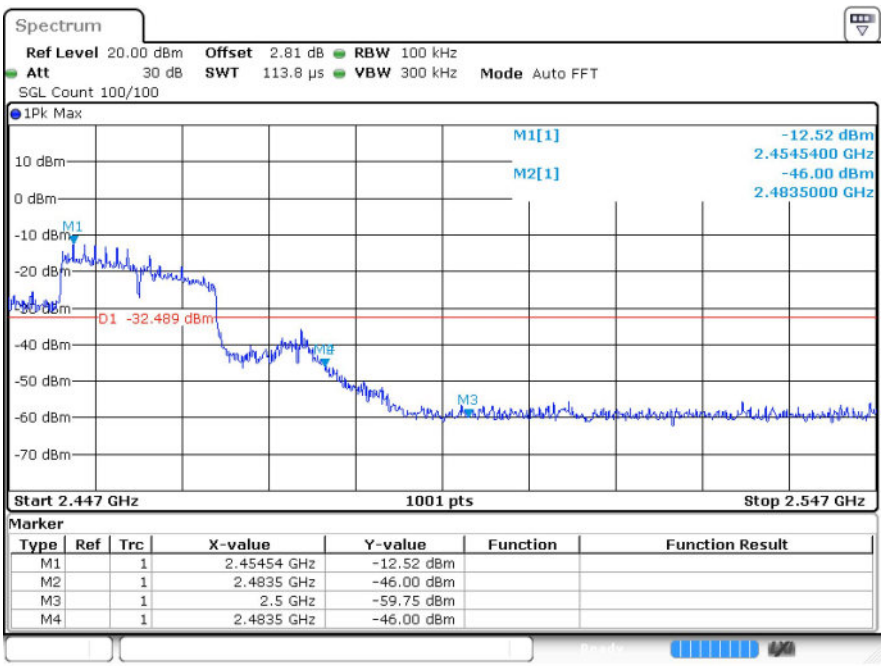
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40577 GHz	-10.00 dBm		
M2		1	2.4 GHz	-30.82 dBm		
M3		1	2.39 GHz	-48.58 dBm		
M4		1	2.3899 GHz	-47.33 dBm		

n20 2462MHz Ant1 Ref



n20 2462MHz Ant1 Emission



Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45454 GHz	-12.52 dBm		
M2		1	2.4835 GHz	-46.00 dBm		
M3		1	2.5 GHz	-59.75 dBm		
M4		1	2.4835 GHz	-46.00 dBm		

6 Conducted RF Spurious Emission

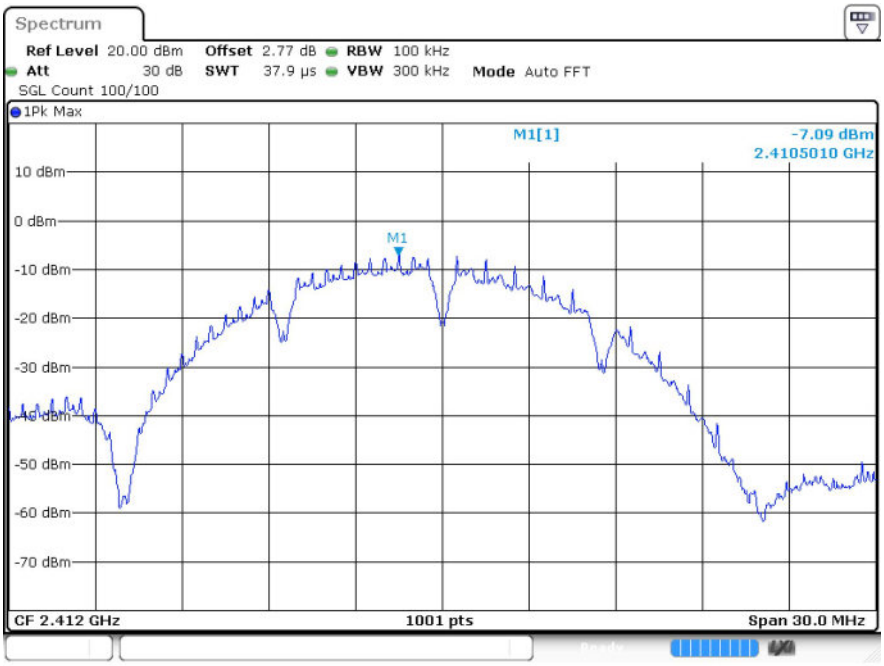
6.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-35.74	-20	Pass
b	2437	Ant1	-33.13	-20	Pass
b	2462	Ant1	-32.55	-20	Pass
g	2412	Ant1	-32.37	-20	Pass
g	2437	Ant1	-31.67	-20	Pass
g	2462	Ant1	-28.11	-20	Pass
n20	2412	Ant1	-30.69	-20	Pass
n20	2437	Ant1	-30.55	-20	Pass
n20	2462	Ant1	-27.46	-20	Pass

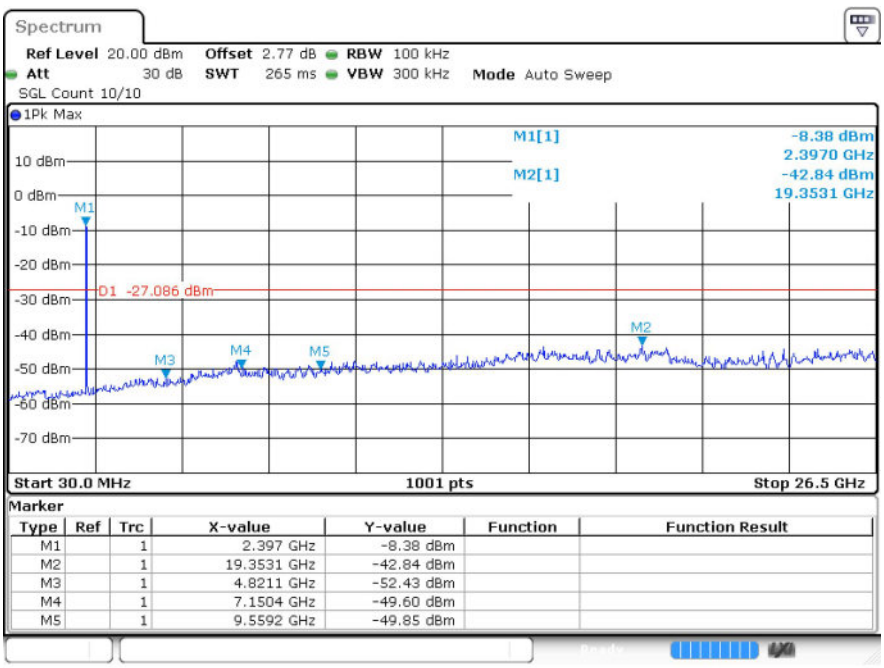
6.2 Test Graphs

Test Graphs

b 2412MHz Ant1 Ref

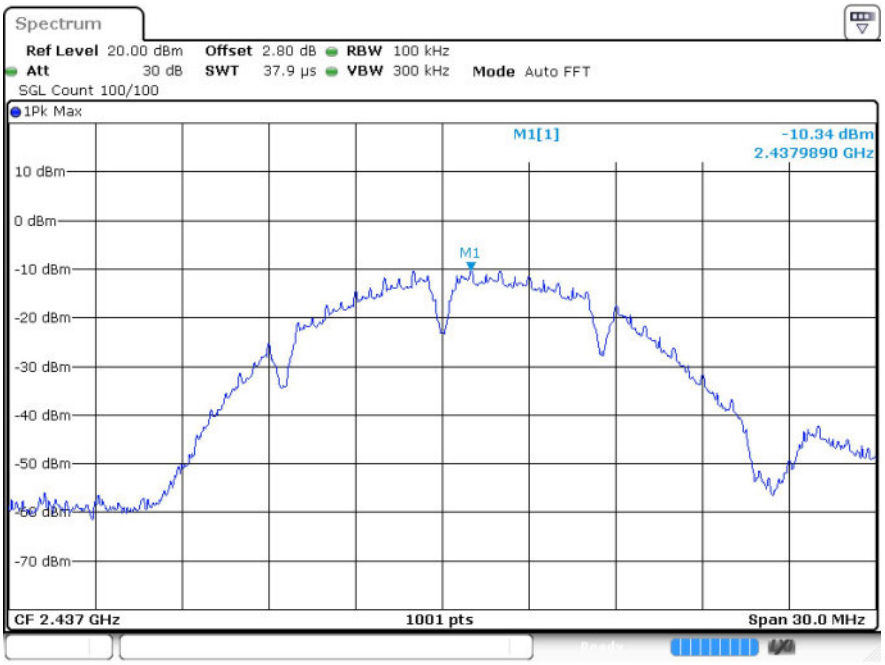


b 2412MHz Ant1 Emission

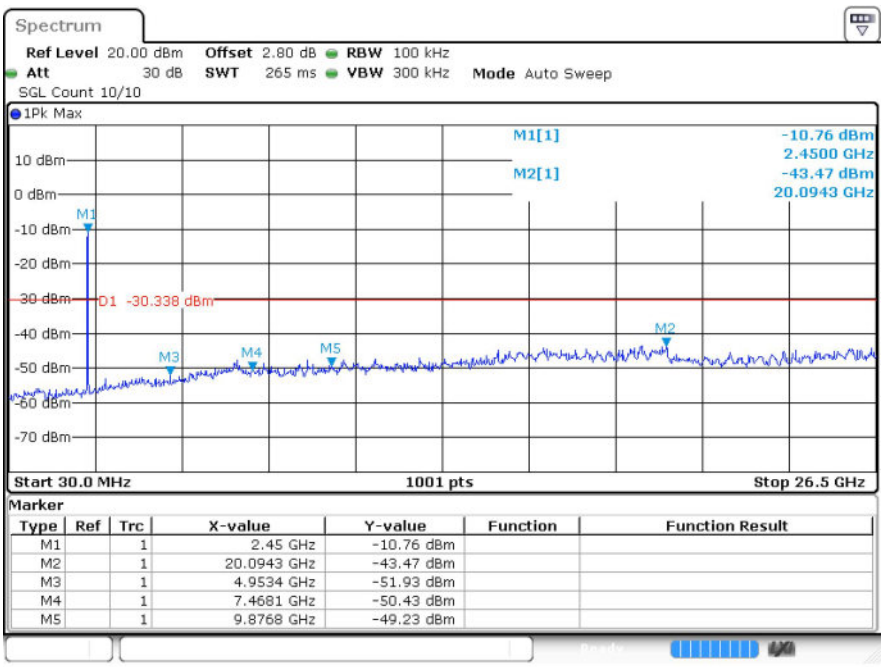


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-8.38 dBm		
M2		1	19.3531 GHz	-42.84 dBm		
M3		1	4.8211 GHz	-52.43 dBm		
M4		1	7.1504 GHz	-49.60 dBm		
M5		1	9.5592 GHz	-49.85 dBm		

b 2437MHz Ant1 Ref



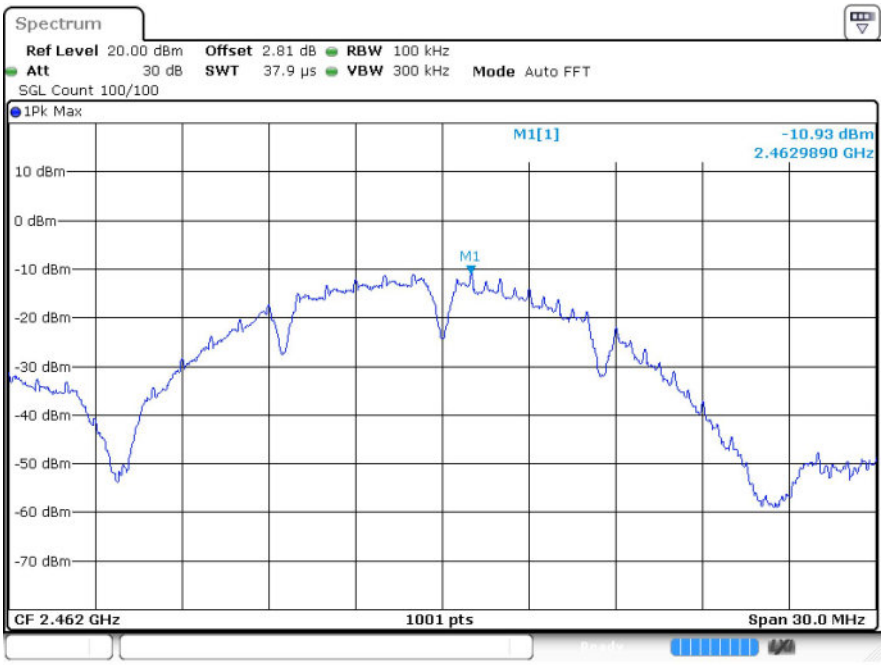
b 2437MHz Ant1 Emission



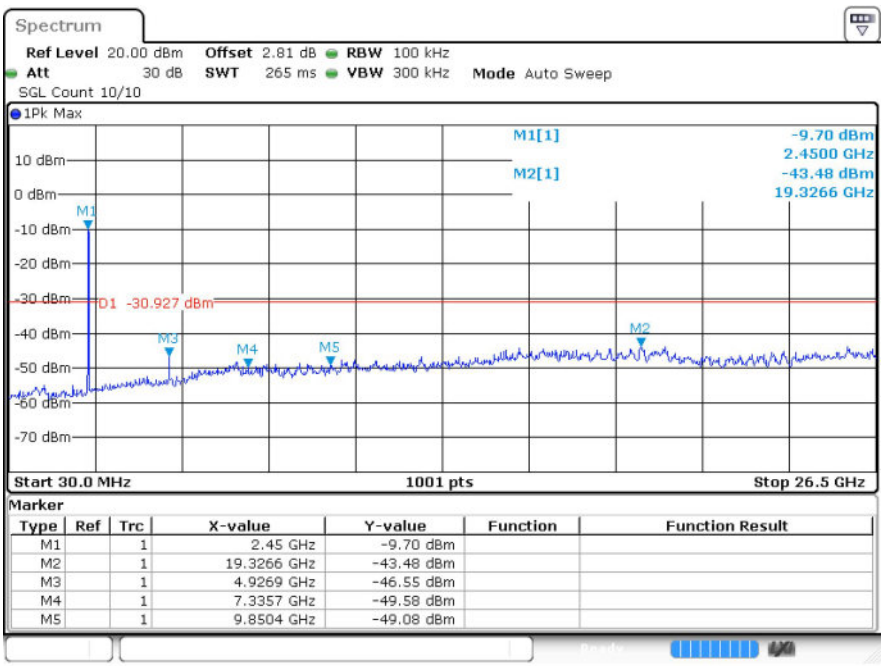
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-10.76 dBm		
M2		1	20.0943 GHz	-43.47 dBm		
M3		1	4.9534 GHz	-51.93 dBm		
M4		1	7.4681 GHz	-50.43 dBm		
M5		1	9.8768 GHz	-49.23 dBm		

b 2462MHz Ant1 Ref



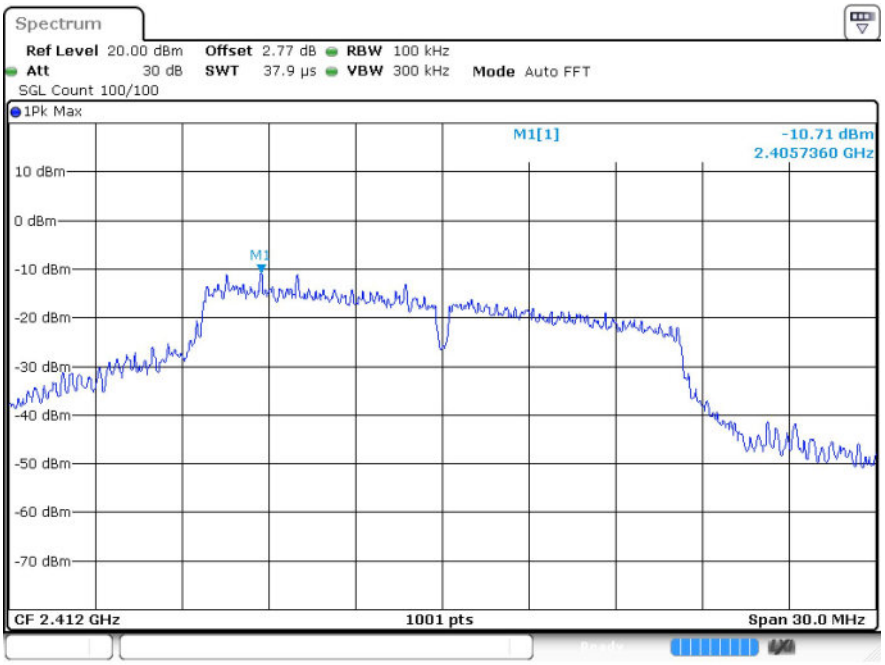
b 2462MHz Ant1 Emission



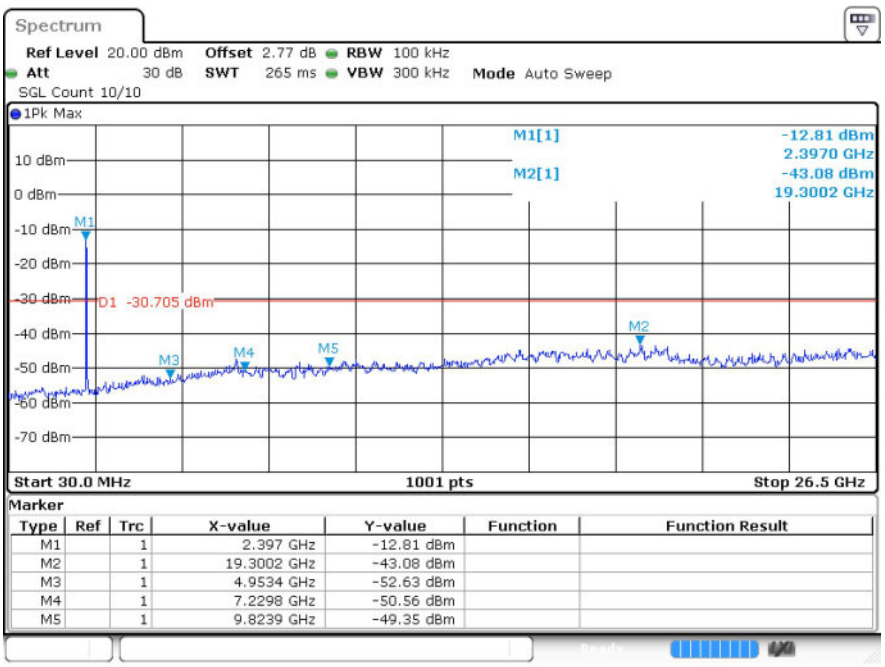
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-9.70 dBm		
M2		1	19.3266 GHz	-43.48 dBm		
M3		1	4.9269 GHz	-46.55 dBm		
M4		1	7.3357 GHz	-49.58 dBm		
M5		1	9.8504 GHz	-49.08 dBm		

g 2412MHz Ant1 Ref



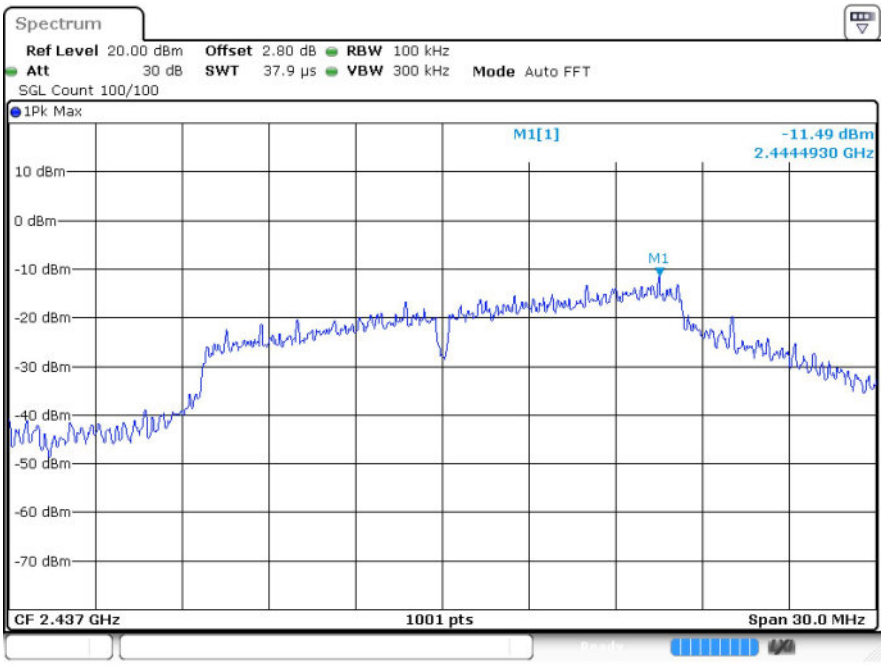
g 2412MHz Ant1 Emission



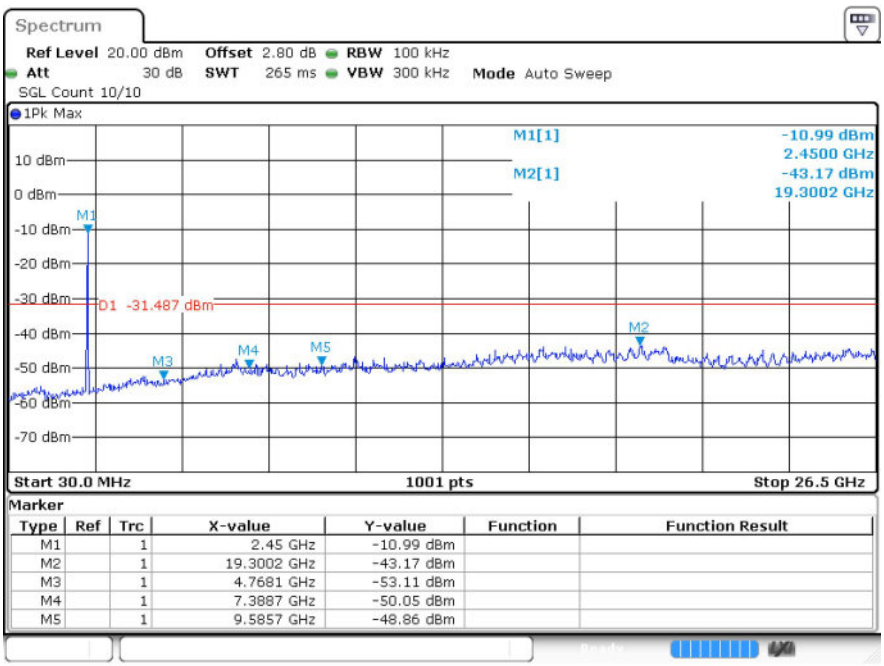
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-12.81 dBm		
M2		1	19.3002 GHz	-43.08 dBm		
M3		1	4.9534 GHz	-52.63 dBm		
M4		1	7.2298 GHz	-50.56 dBm		
M5		1	9.8239 GHz	-49.35 dBm		

g 2437MHz Ant1 Ref

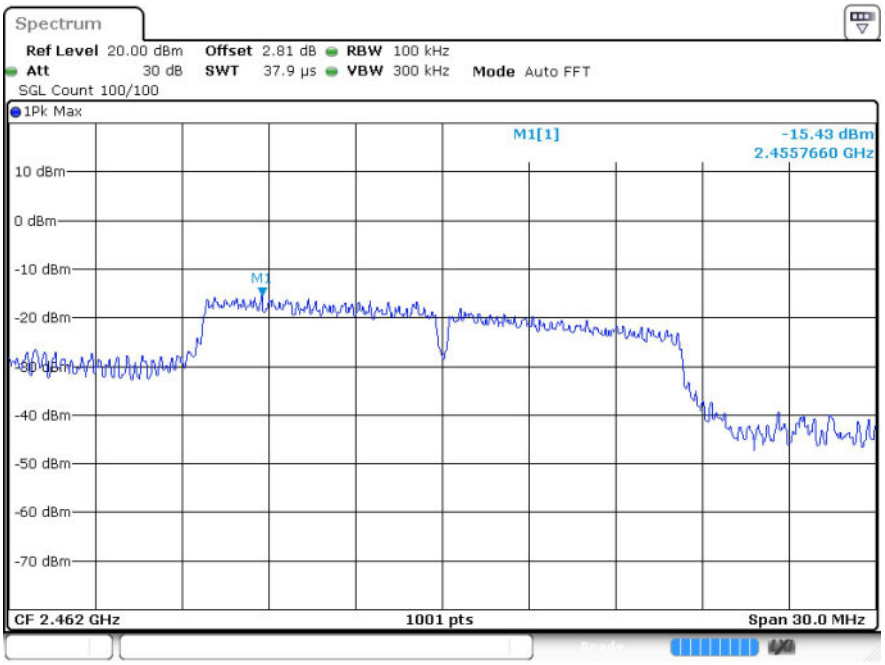


g 2437MHz Ant1 Emission

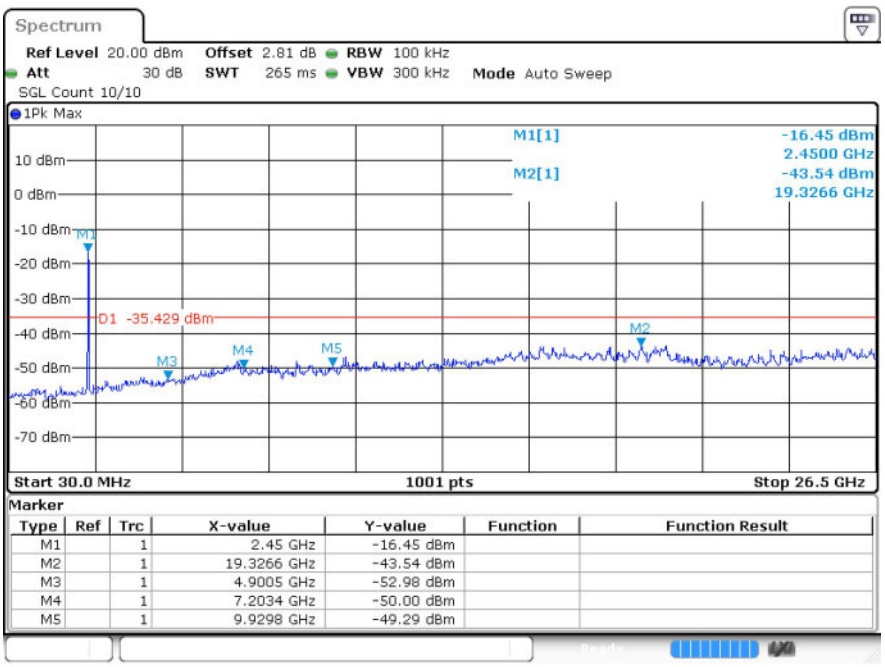


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-10.99 dBm		
M2		1	19.3002 GHz	-43.17 dBm		
M3		1	4.7681 GHz	-53.11 dBm		
M4		1	7.3887 GHz	-50.05 dBm		
M5		1	9.5857 GHz	-48.86 dBm		

g 2462MHz Ant1 Ref



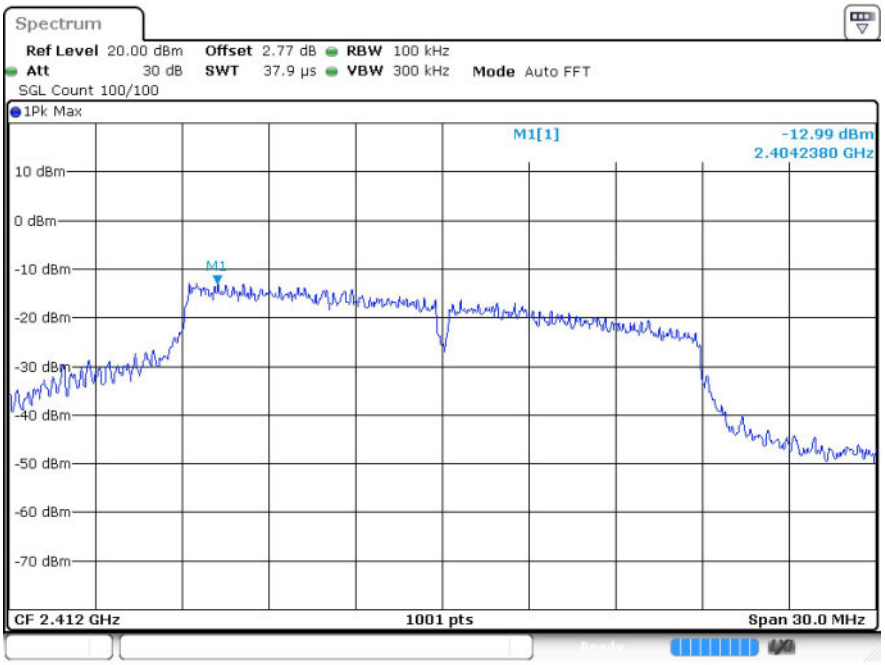
g 2462MHz Ant1 Emission



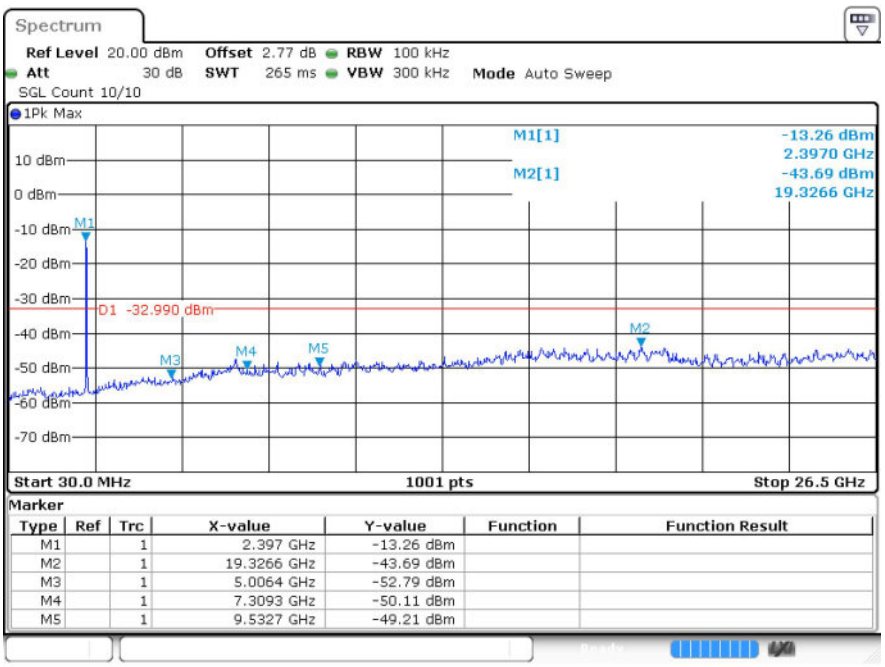
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-16.45 dBm		
M2		1	19.3266 GHz	-43.54 dBm		
M3		1	4.9005 GHz	-52.98 dBm		
M4		1	7.2034 GHz	-50.00 dBm		
M5		1	9.9298 GHz	-49.29 dBm		

n20 2412MHz Ant1 Ref



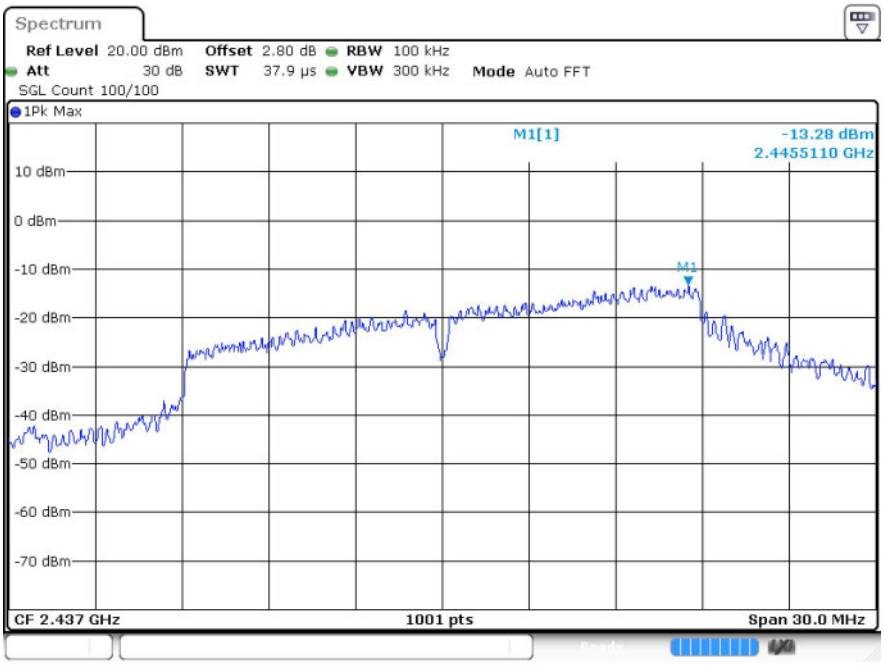
n20 2412MHz Ant1 Emission



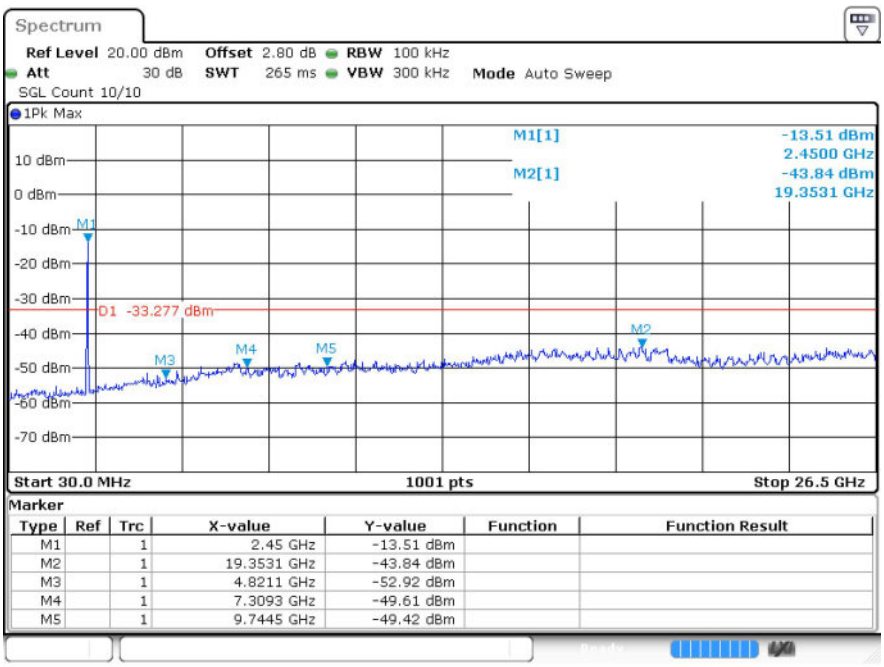
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.397 GHz	-13.26 dBm		
M2		1	19.3266 GHz	-43.69 dBm		
M3		1	5.0064 GHz	-52.79 dBm		
M4		1	7.3093 GHz	-50.11 dBm		
M5		1	9.5327 GHz	-49.21 dBm		

n20 2437MHz Ant1 Ref



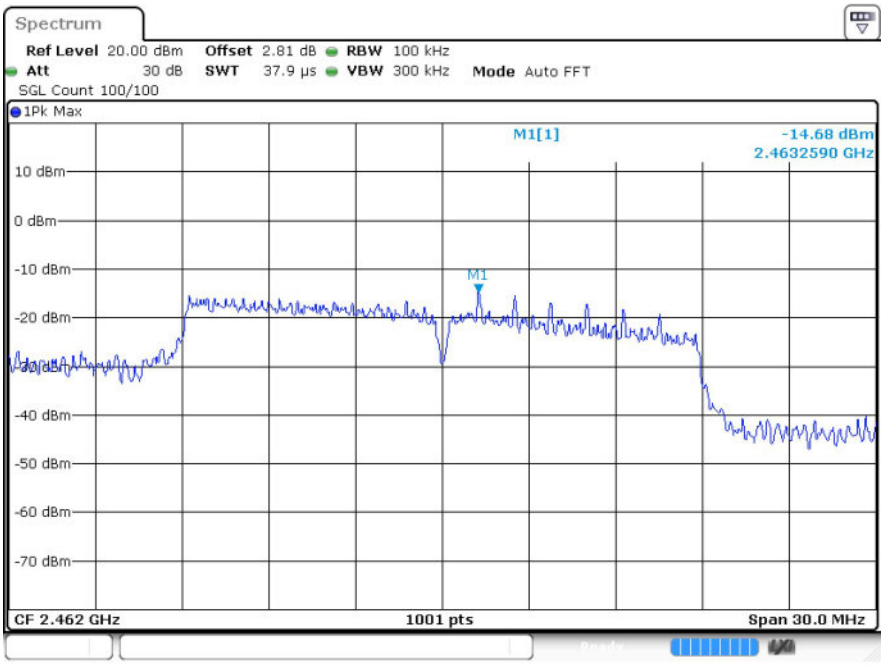
n20 2437MHz Ant1 Emission



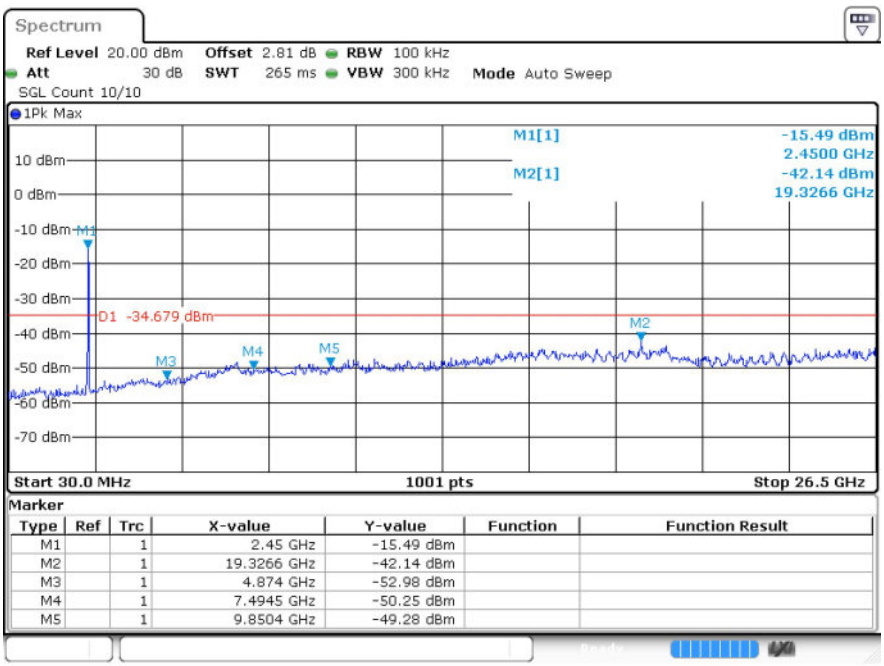
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-13.51 dBm		
M2		1	19.3531 GHz	-43.84 dBm		
M3		1	4.8211 GHz	-52.92 dBm		
M4		1	7.3093 GHz	-49.61 dBm		
M5		1	9.7445 GHz	-49.42 dBm		

n20 2462MHz Ant1 Ref



n20 2462MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-15.49 dBm		
M2		1	19.3266 GHz	-42.14 dBm		
M3		1	4.874 GHz	-52.98 dBm		
M4		1	7.4945 GHz	-50.25 dBm		
M5		1	9.8504 GHz	-49.28 dBm		

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