



## Appendix C

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

Product Name: SMART PHOTO FRAME

Trade Mark: TIBUTA/BYYBUO

Test Model: TID15

#### 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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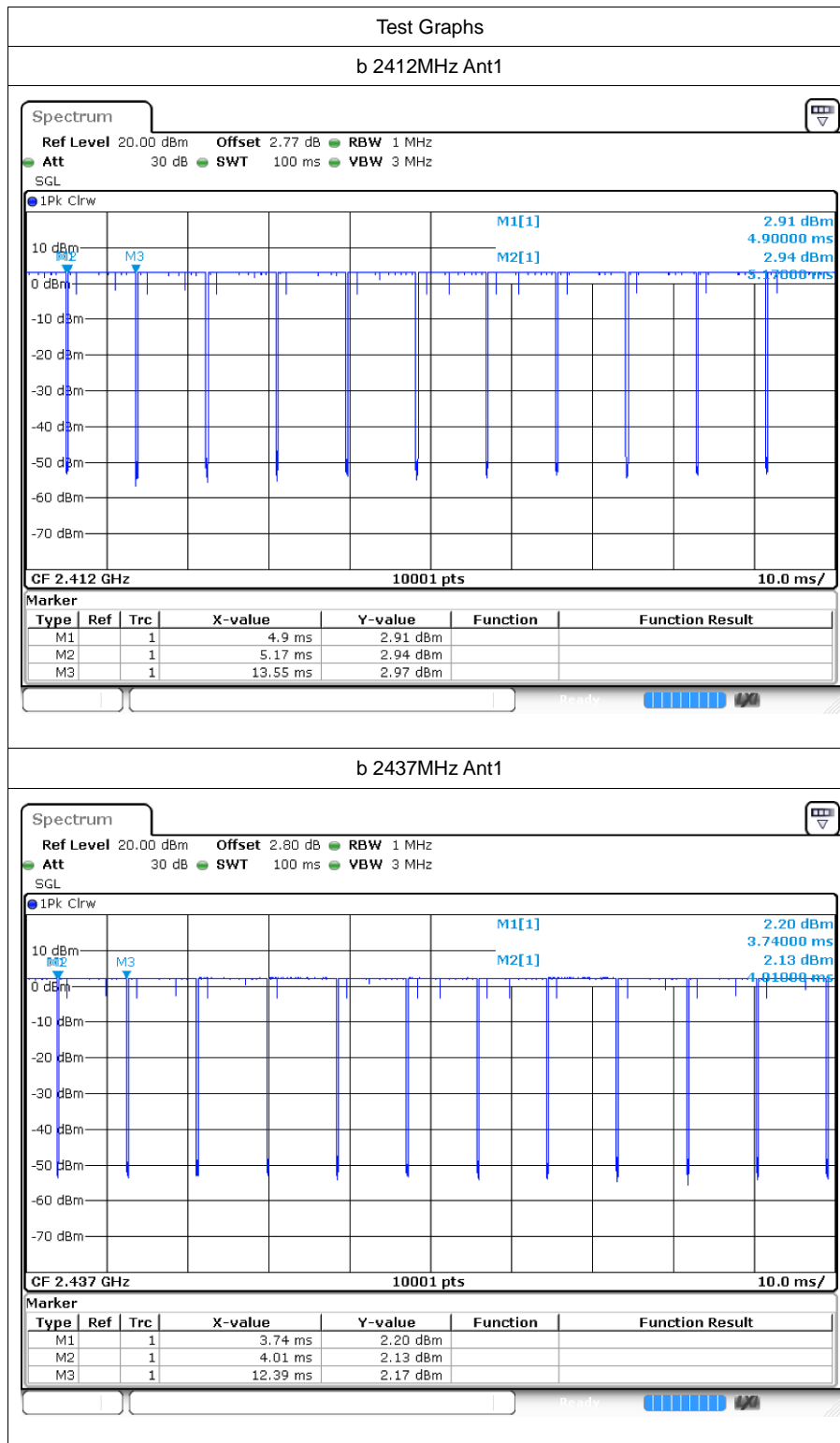
# 1 Duty Cycle

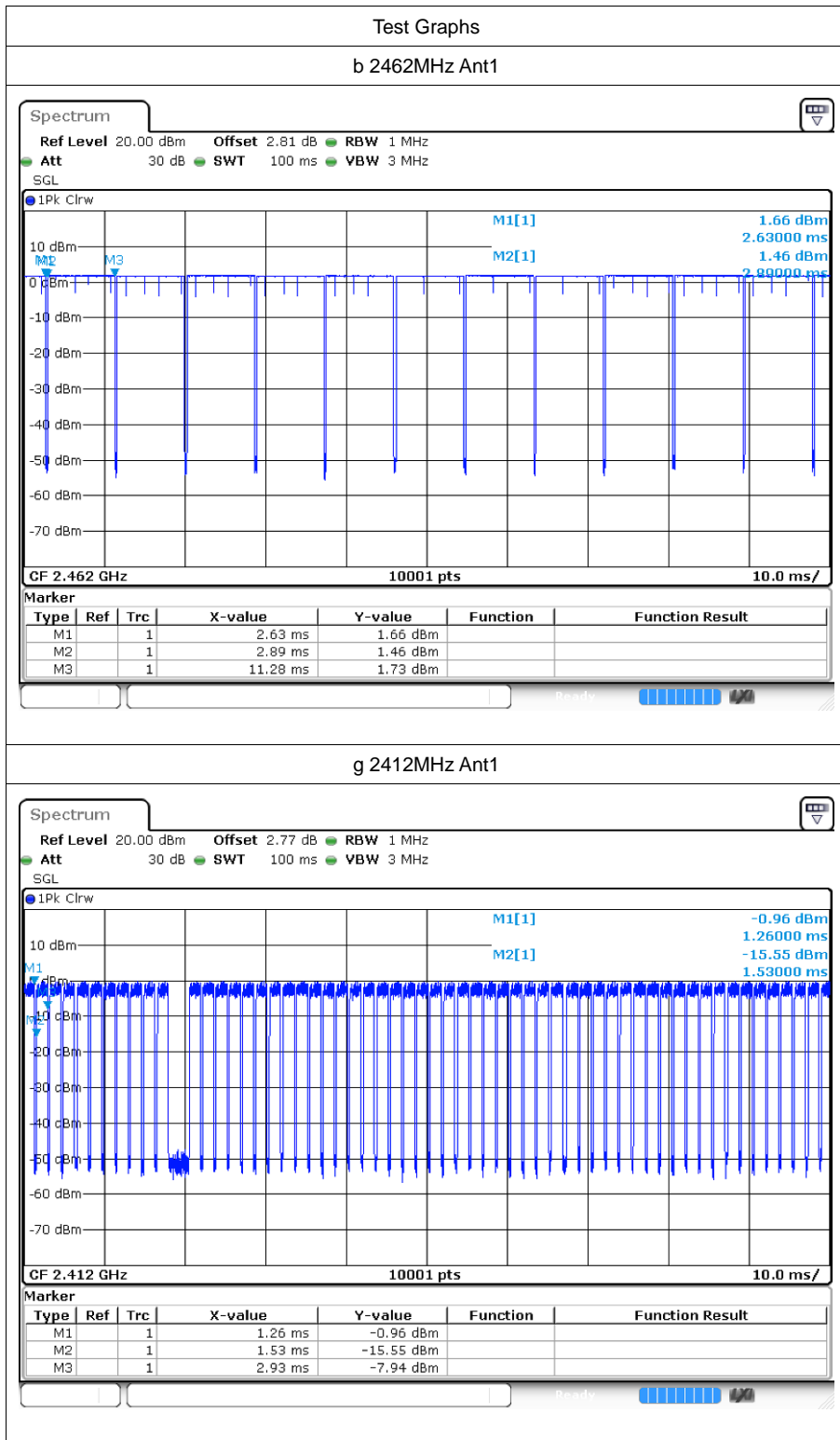
## 1.1 Test Result

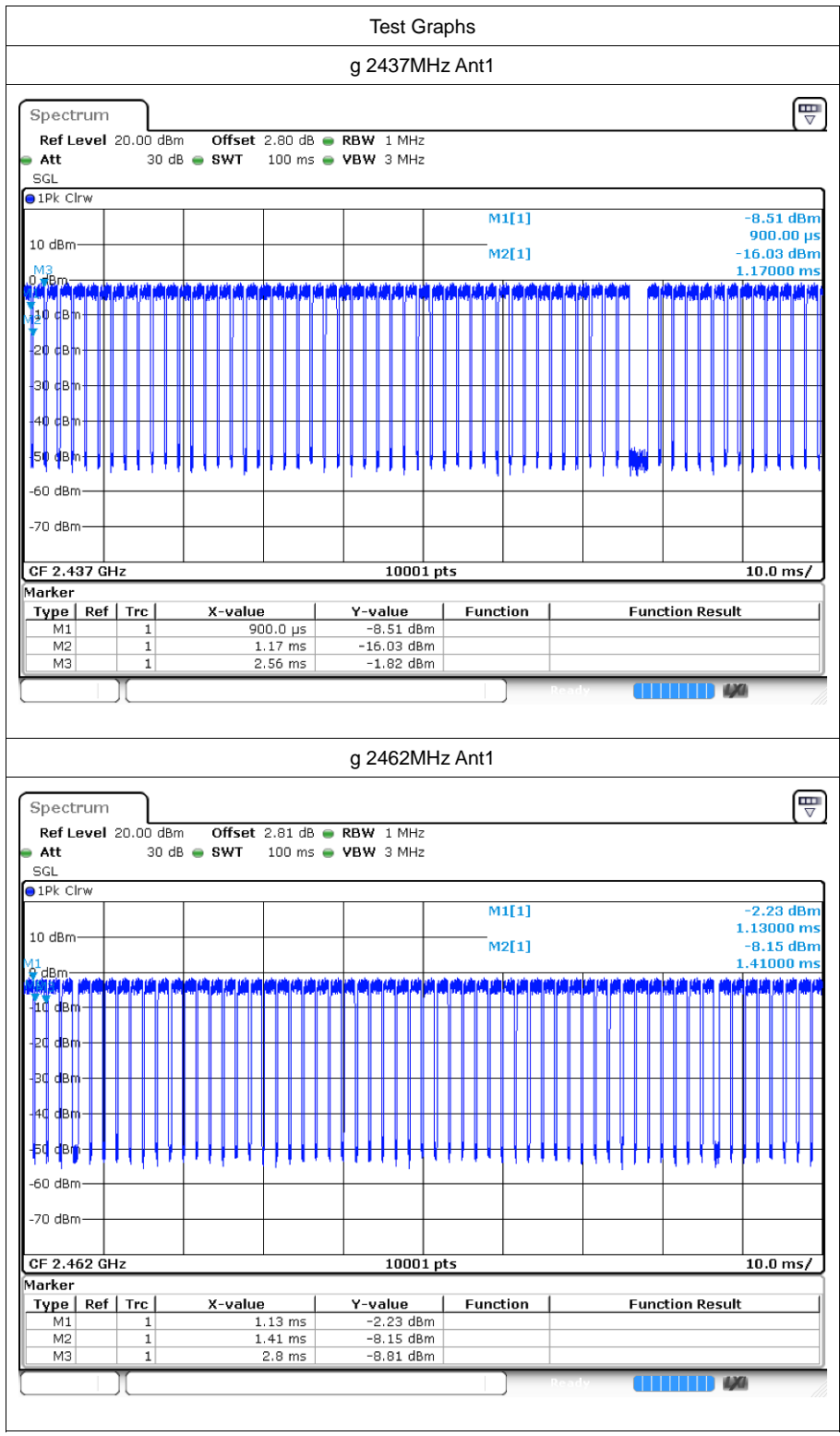
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	1/T (kHz)
b	2412	Ant1	97.14	0.12
b	2437	Ant1	96.87	0.12
b	2462	Ant1	96.95	0.12
g	2412	Ant1	82.27	0.71
g	2437	Ant1	82.57	0.72
g	2462	Ant1	83.78	0.72
n20	2412	Ant1	94.16	0.2
n20	2437	Ant1	95.02	0.2
n20	2462	Ant1	95.04	0.2
n40	2422	Ant1	90.08	0.4
n40	2437	Ant1	90.64	0.4
n40	2452	Ant1	90.37	0.4

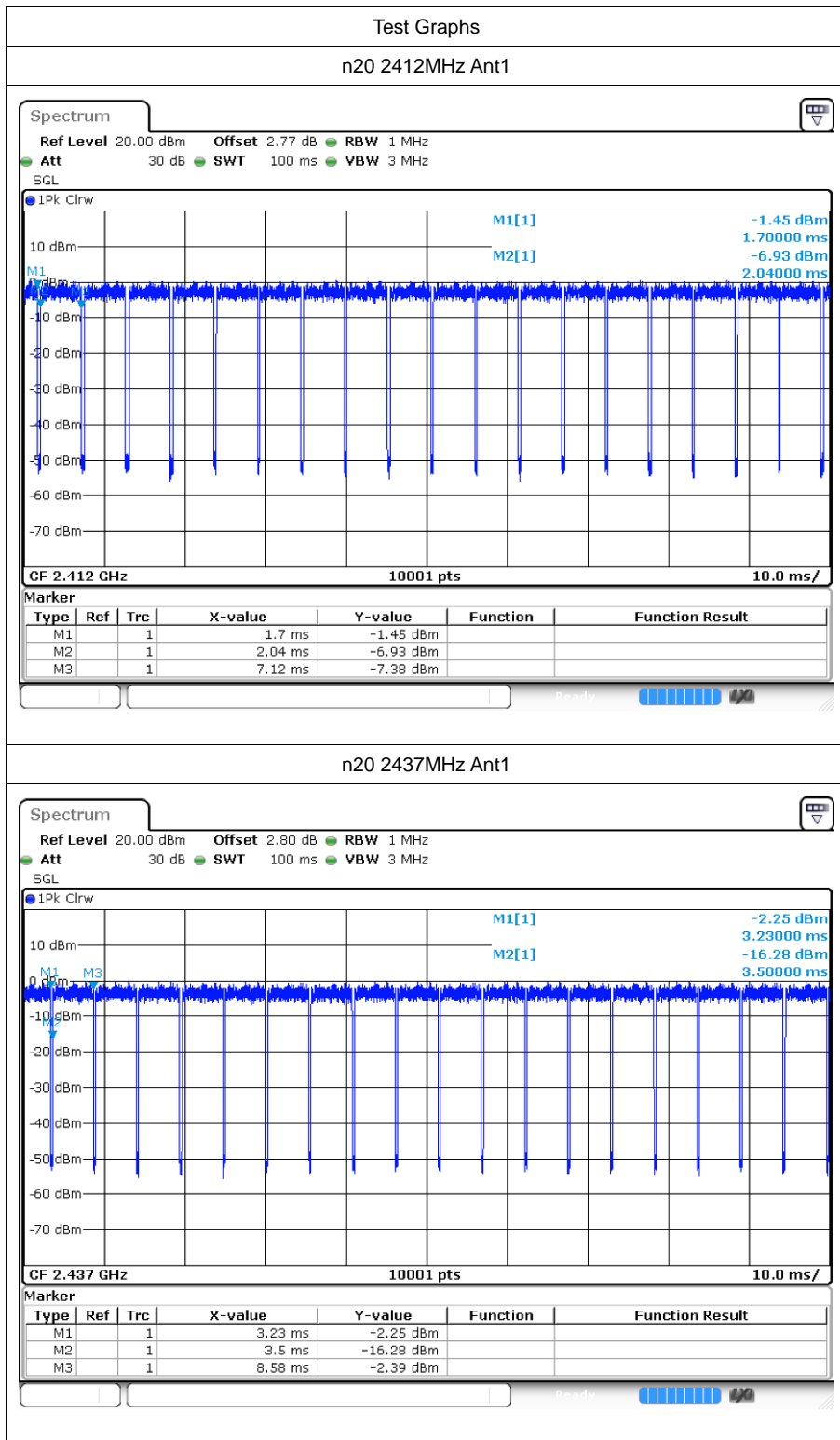


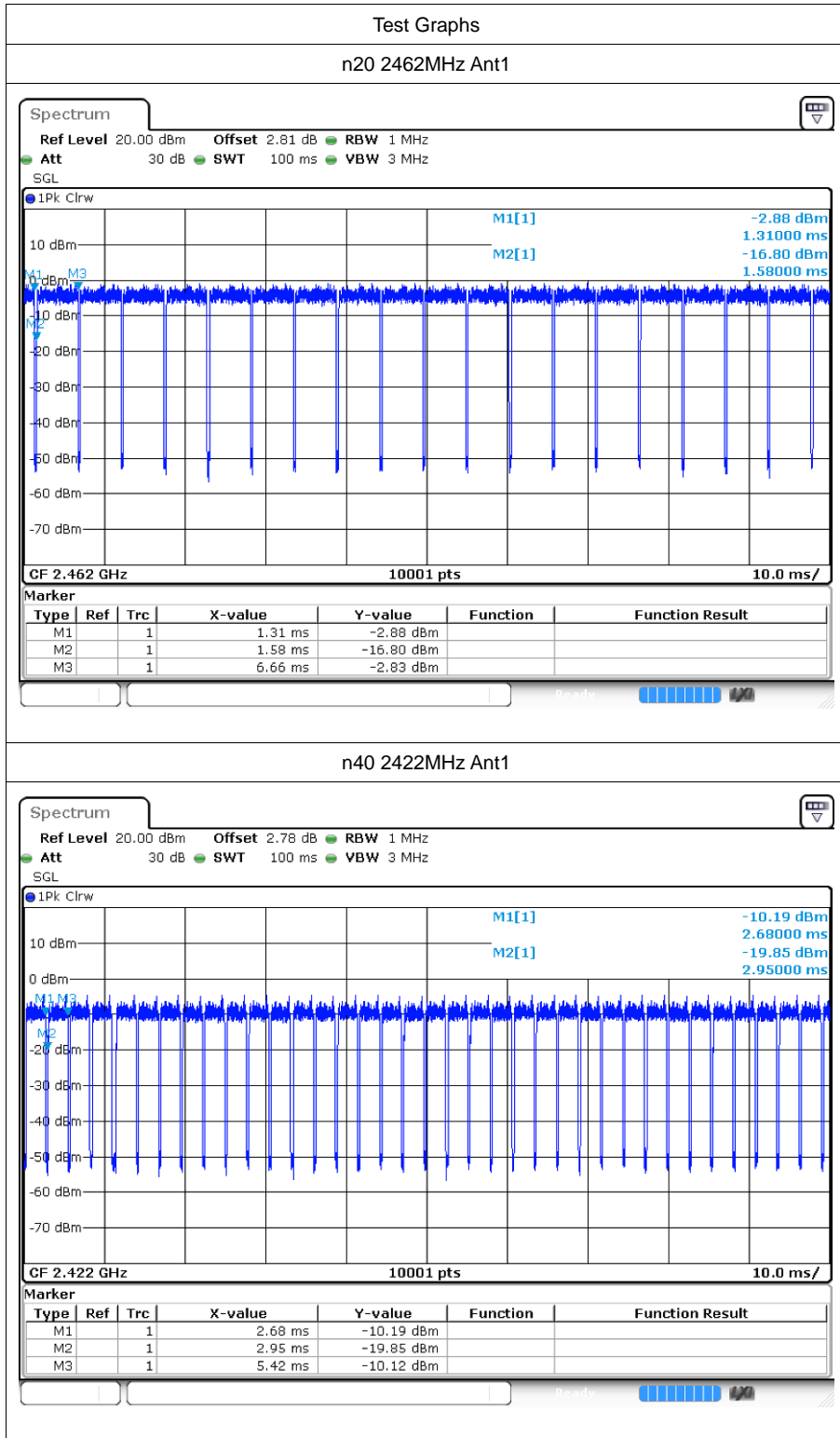
### 1.2 Test Graphs



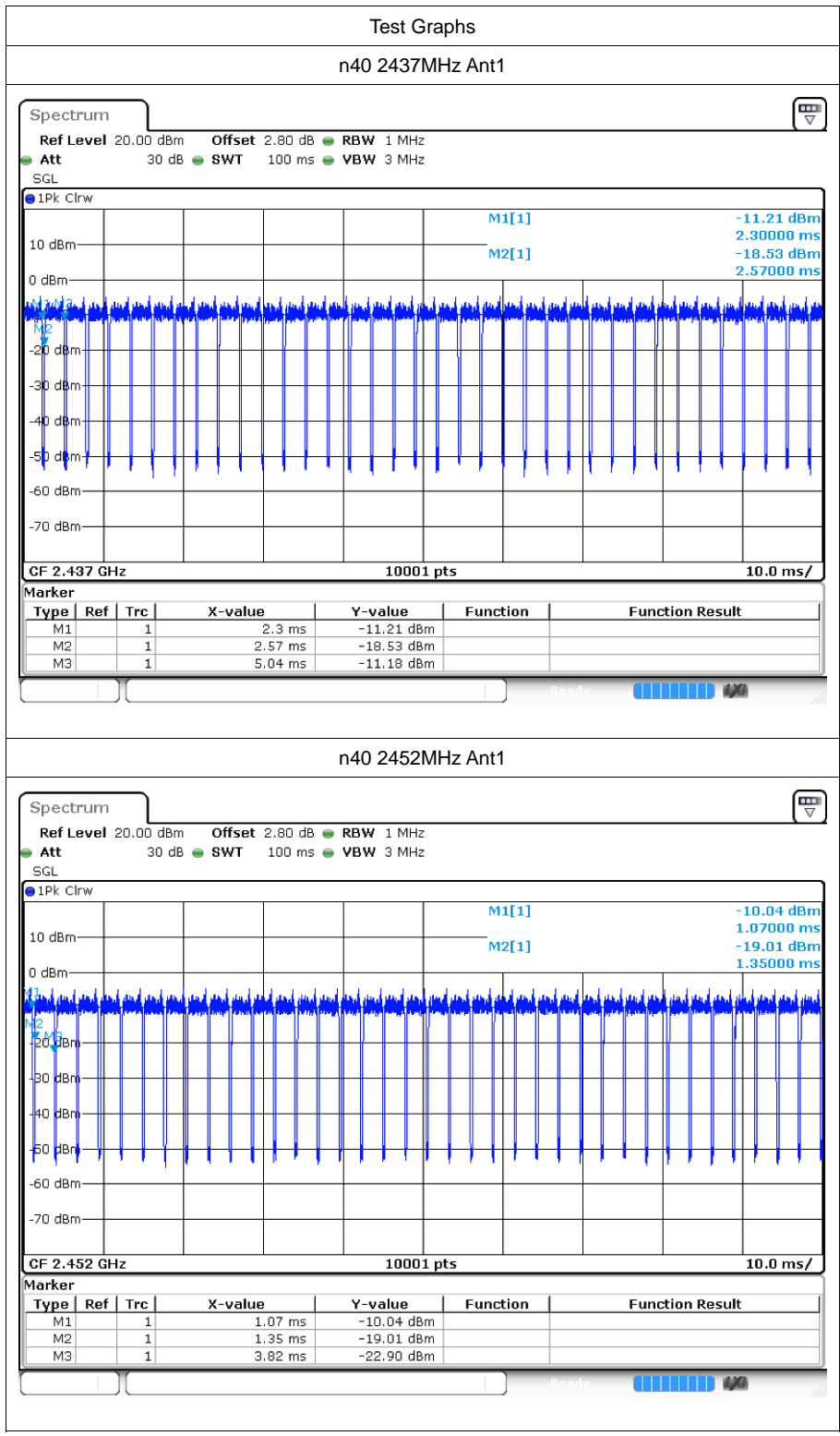














## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
b	2412	Ant1	12.36	30	Pass
b	2437	Ant1	11.72	30	Pass
b	2462	Ant1	11.19	30	Pass
g	2412	Ant1	11.35	30	Pass
g	2437	Ant1	10.54	30	Pass
g	2462	Ant1	10.09	30	Pass
n20	2412	Ant1	11.53	30	Pass
n20	2437	Ant1	10.6	30	Pass
n20	2462	Ant1	10.08	30	Pass
n40	2422	Ant1	11.68	30	Pass
n40	2437	Ant1	10.98	30	Pass
n40	2452	Ant1	11.46	30	Pass

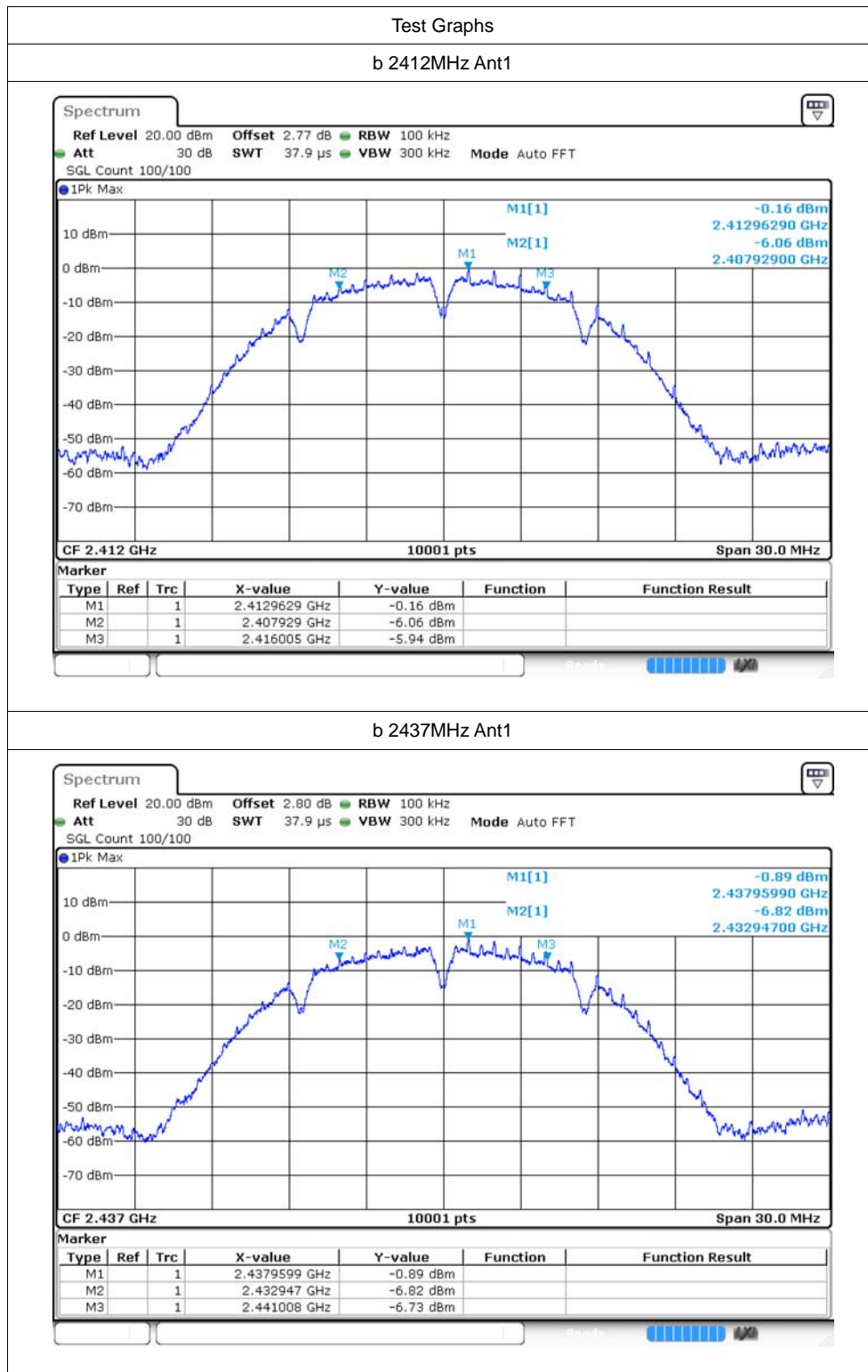


### 3 -6dB Bandwidth

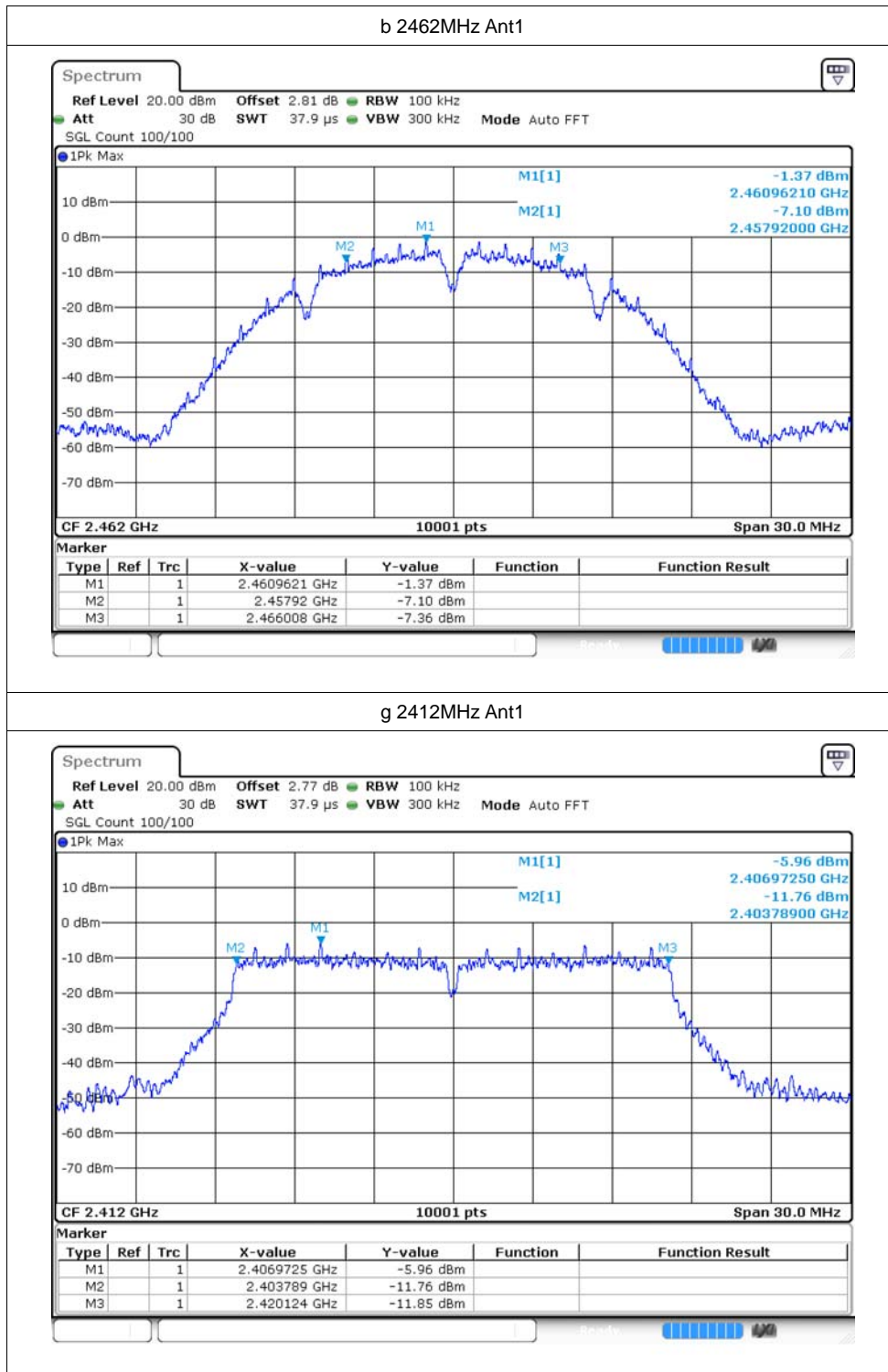
#### 3.1 Test Result

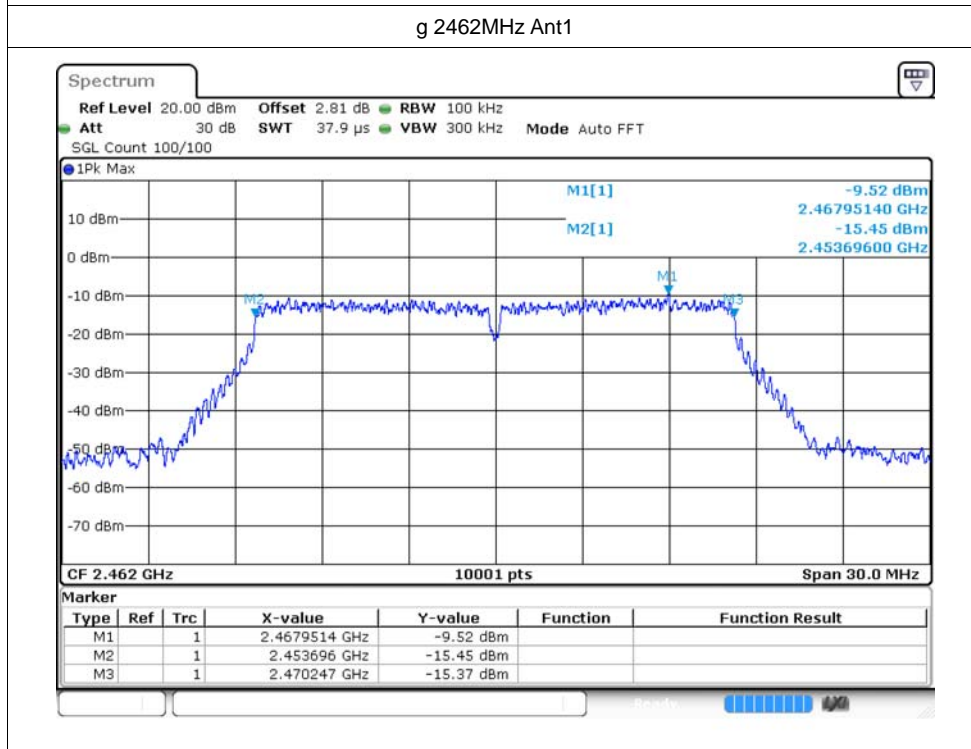
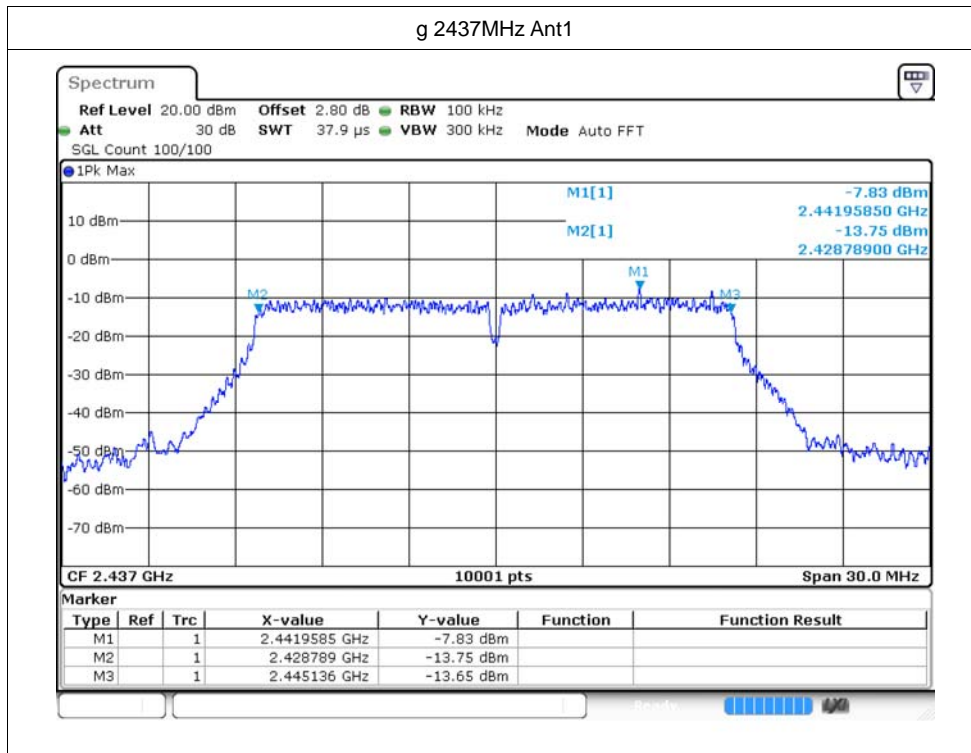
Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
b	2412	Ant1	8.076	0.5	Pass
b	2437	Ant1	8.061	0.5	Pass
b	2462	Ant1	8.088	0.5	Pass
g	2412	Ant1	16.335	0.5	Pass
g	2437	Ant1	16.347	0.5	Pass
g	2462	Ant1	16.551	0.5	Pass
n20	2412	Ant1	17.661	0.5	Pass
n20	2437	Ant1	17.589	0.5	Pass
n20	2462	Ant1	17.592	0.5	Pass
n40	2422	Ant1	36.3	0.5	Pass
n40	2437	Ant1	36.33	0.5	Pass
n40	2452	Ant1	36.456	0.5	Pass

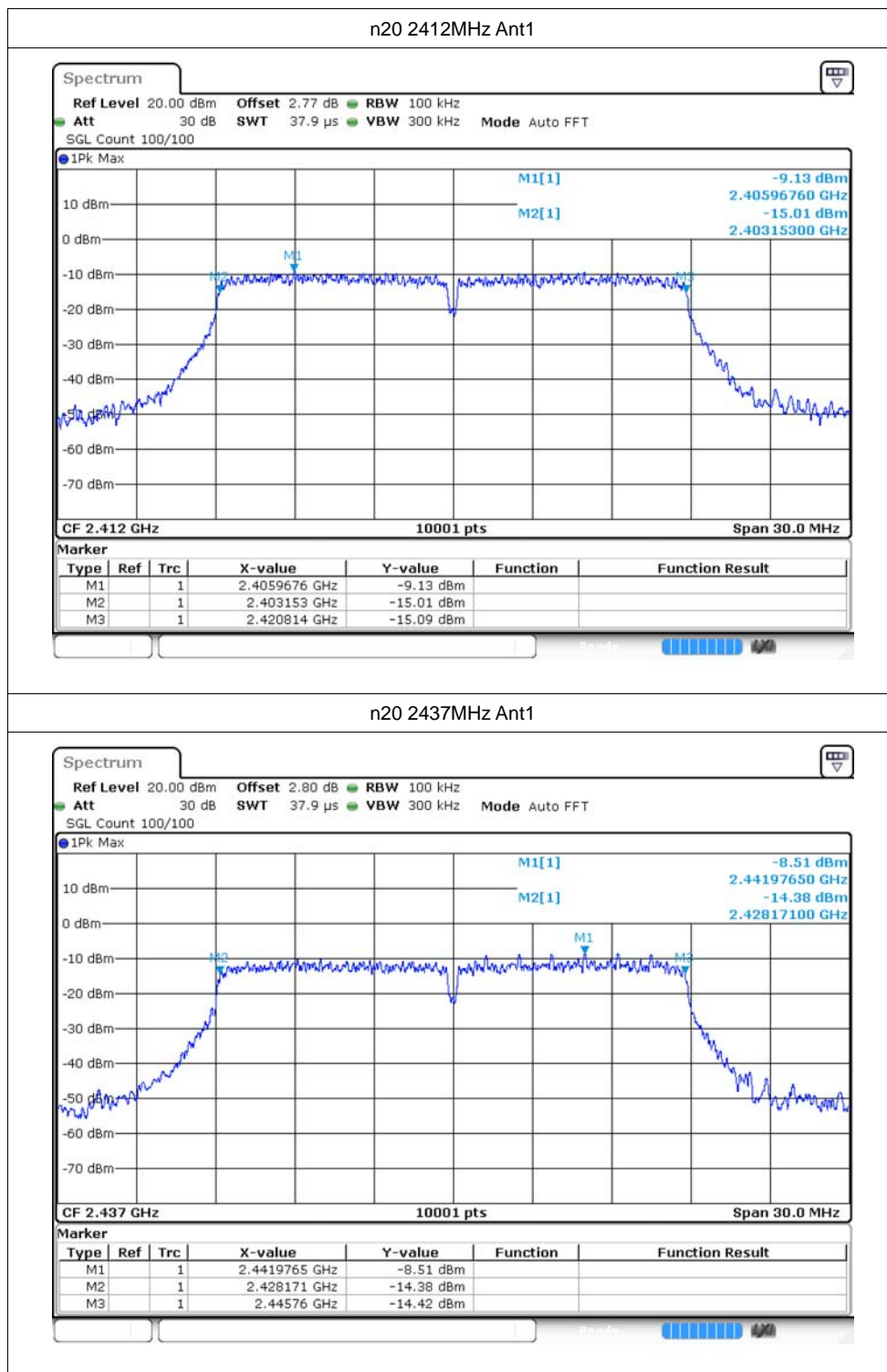
### 3.2 Test Graphs

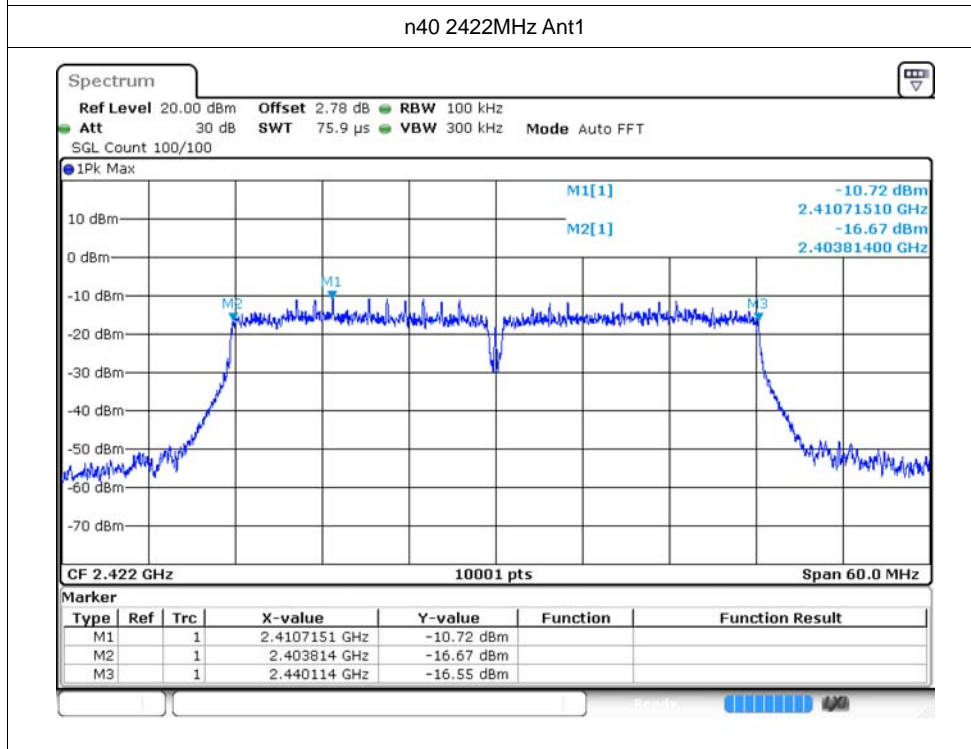
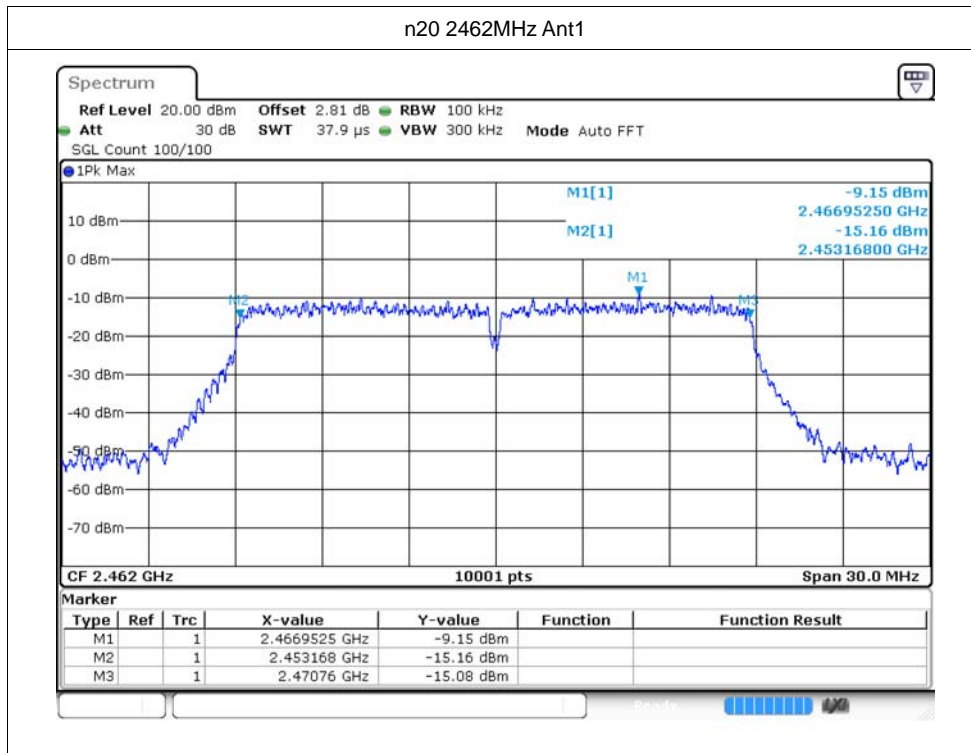


b 2437MHz Ant1

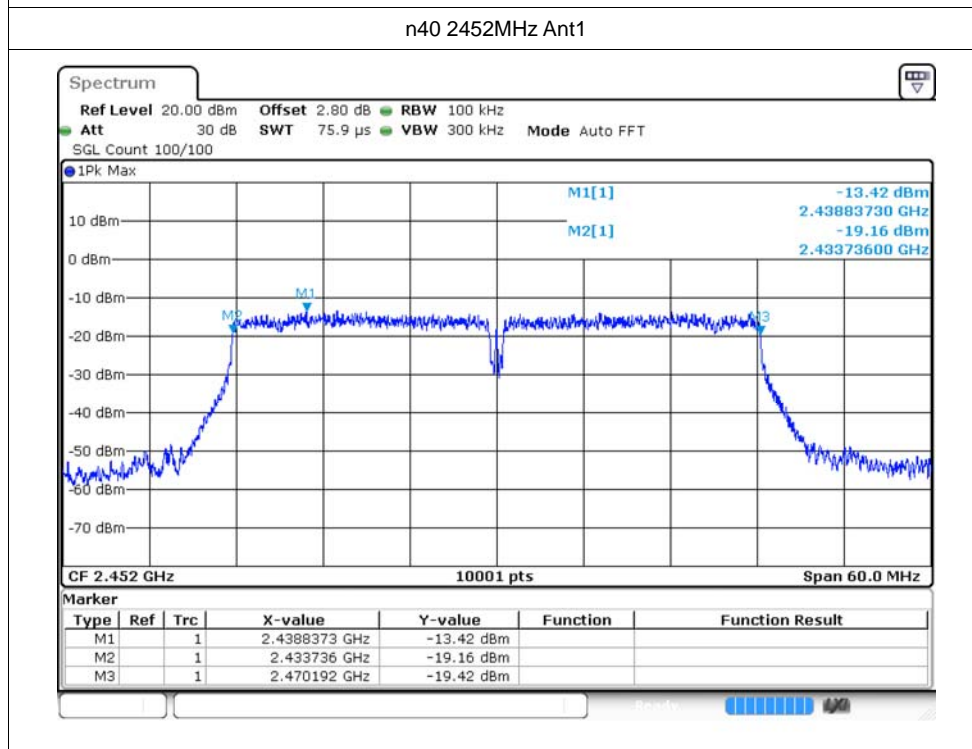
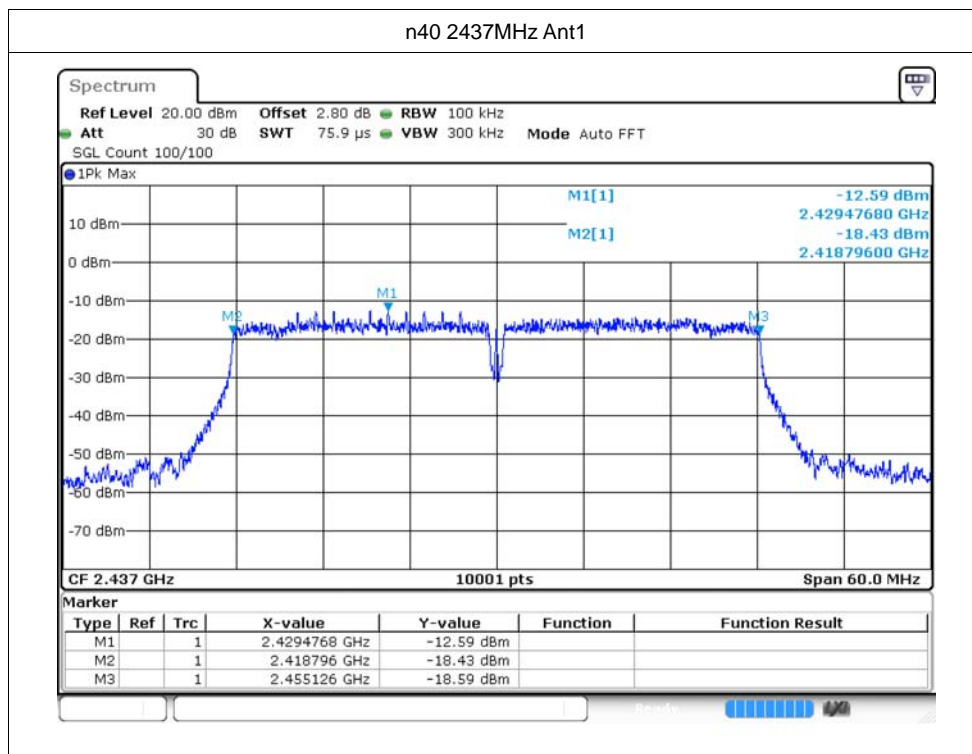










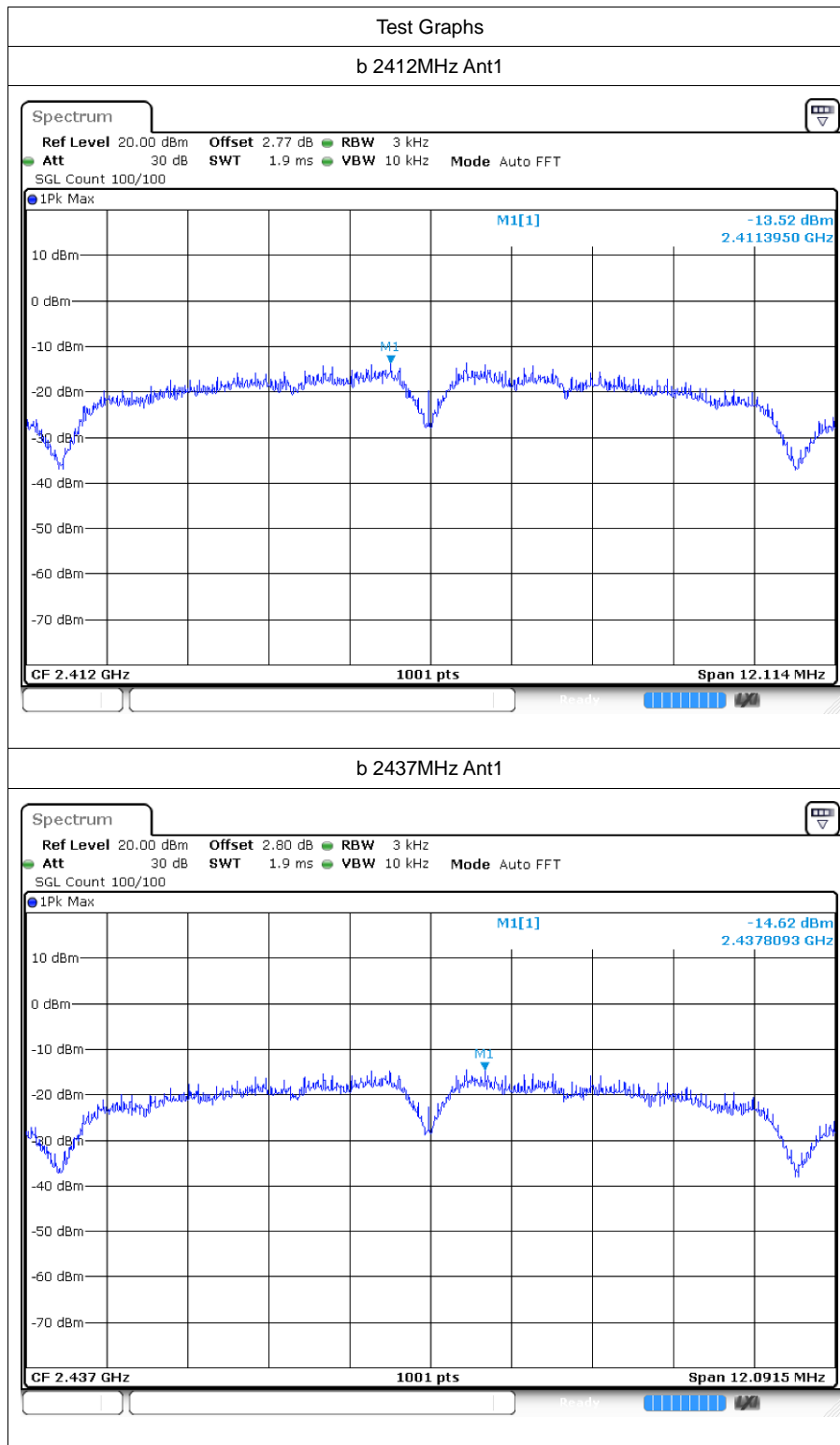


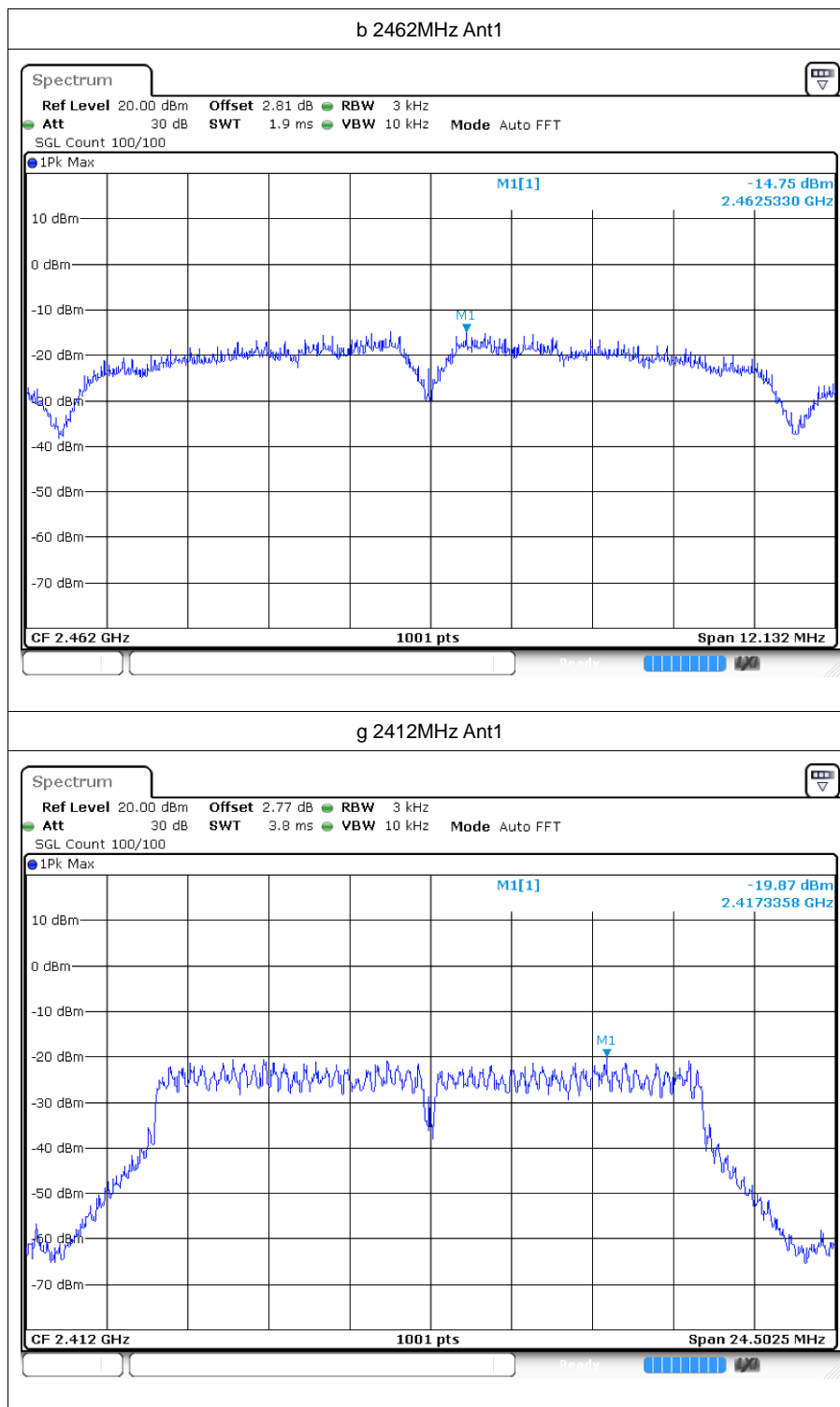
## 4 Maximum Power Spectral Density Level

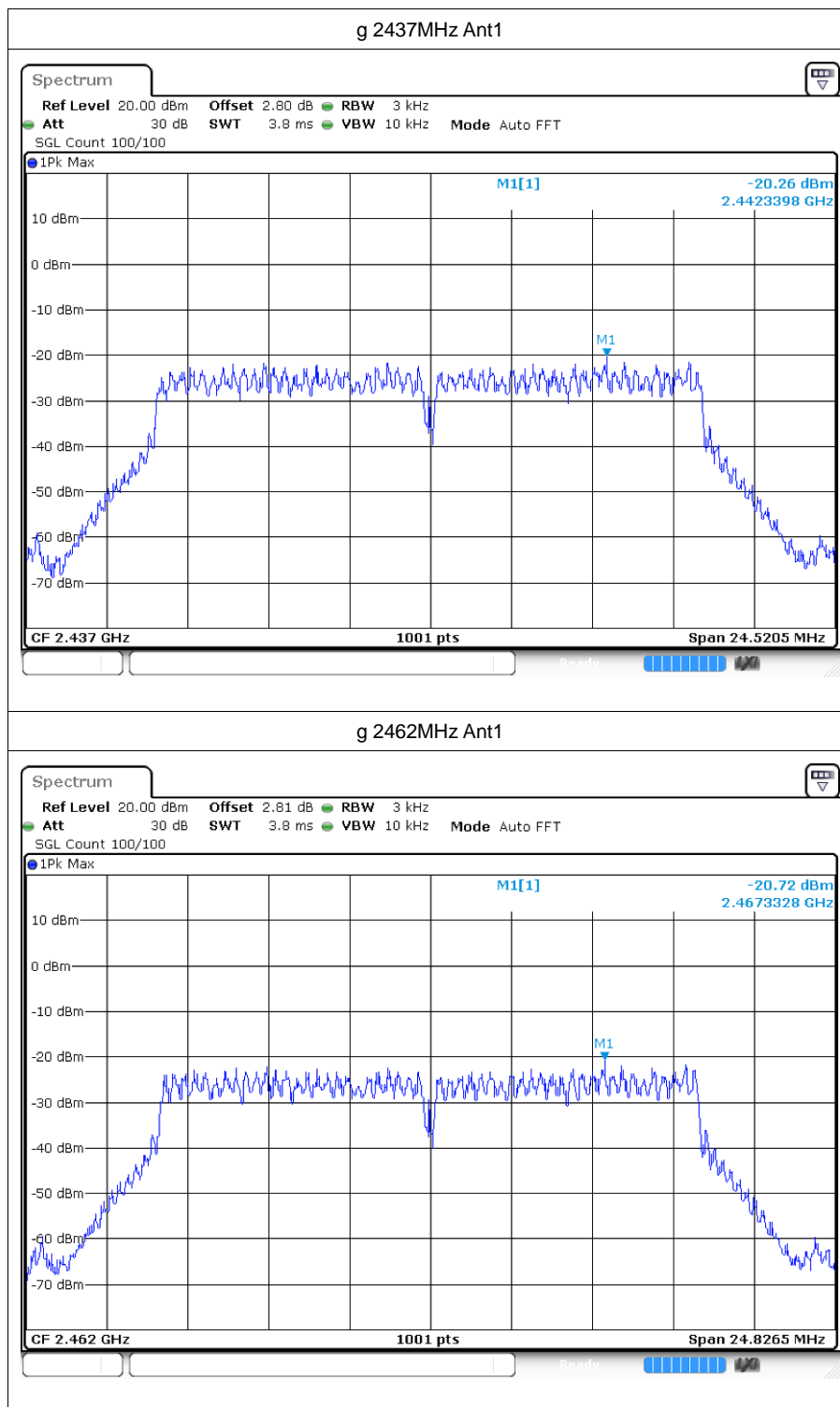
### 4.1 Test Result

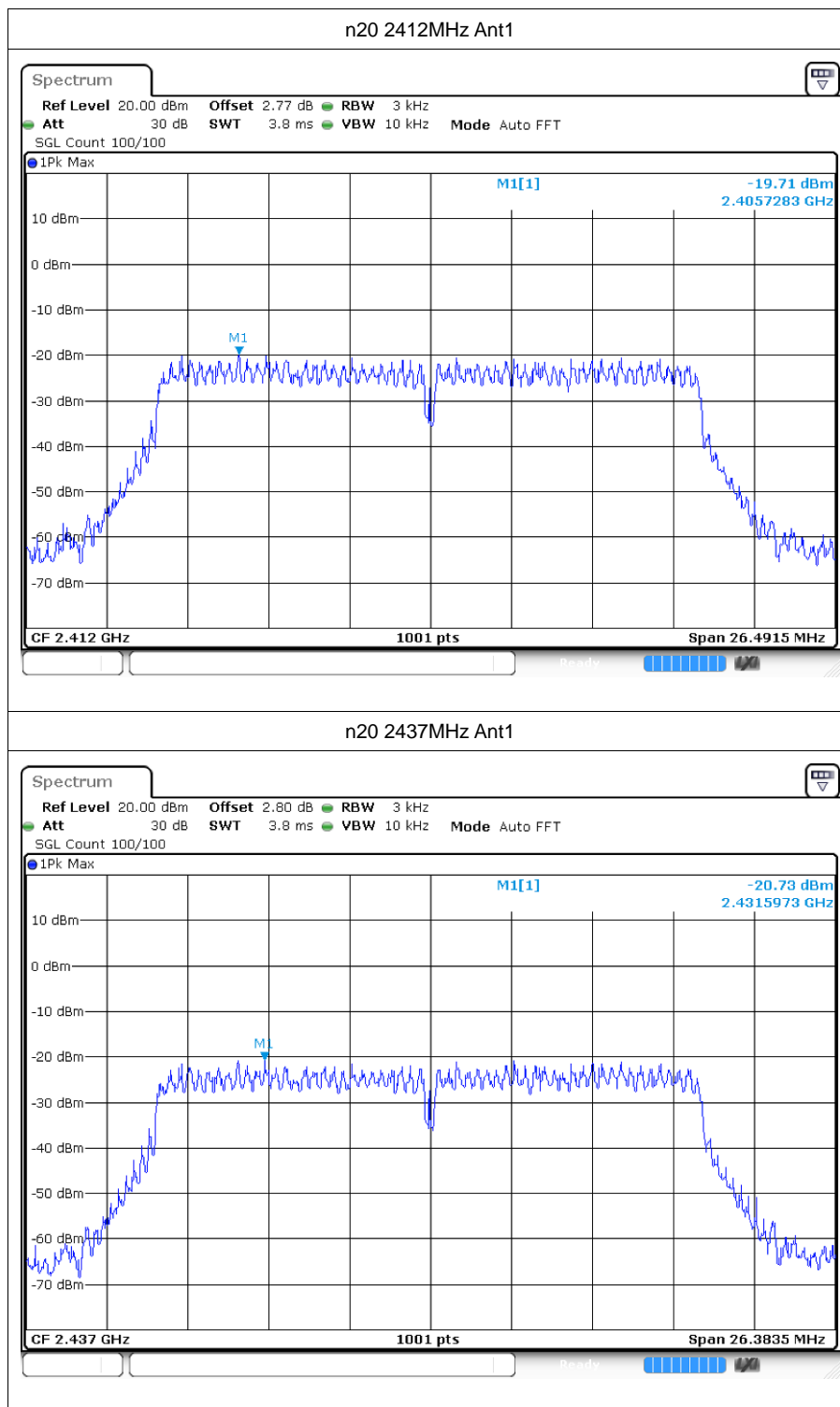
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3-100kHz)	Limit (dBm/3kHz)	Verdict
b	2412	Ant1	-13.52	≤8	Pass
b	2437	Ant1	-14.62	≤8	Pass
b	2462	Ant1	-14.75	≤8	Pass
g	2412	Ant1	-19.87	≤8	Pass
g	2437	Ant1	-20.26	≤8	Pass
g	2462	Ant1	-20.72	≤8	Pass
n20	2412	Ant1	-19.71	≤8	Pass
n20	2437	Ant1	-20.73	≤8	Pass
n20	2462	Ant1	-21.21	≤8	Pass
n40	2422	Ant1	-19.8	≤8	Pass
n40	2437	Ant1	-19.02	≤8	Pass
n40	2452	Ant1	-19.41	≤8	Pass

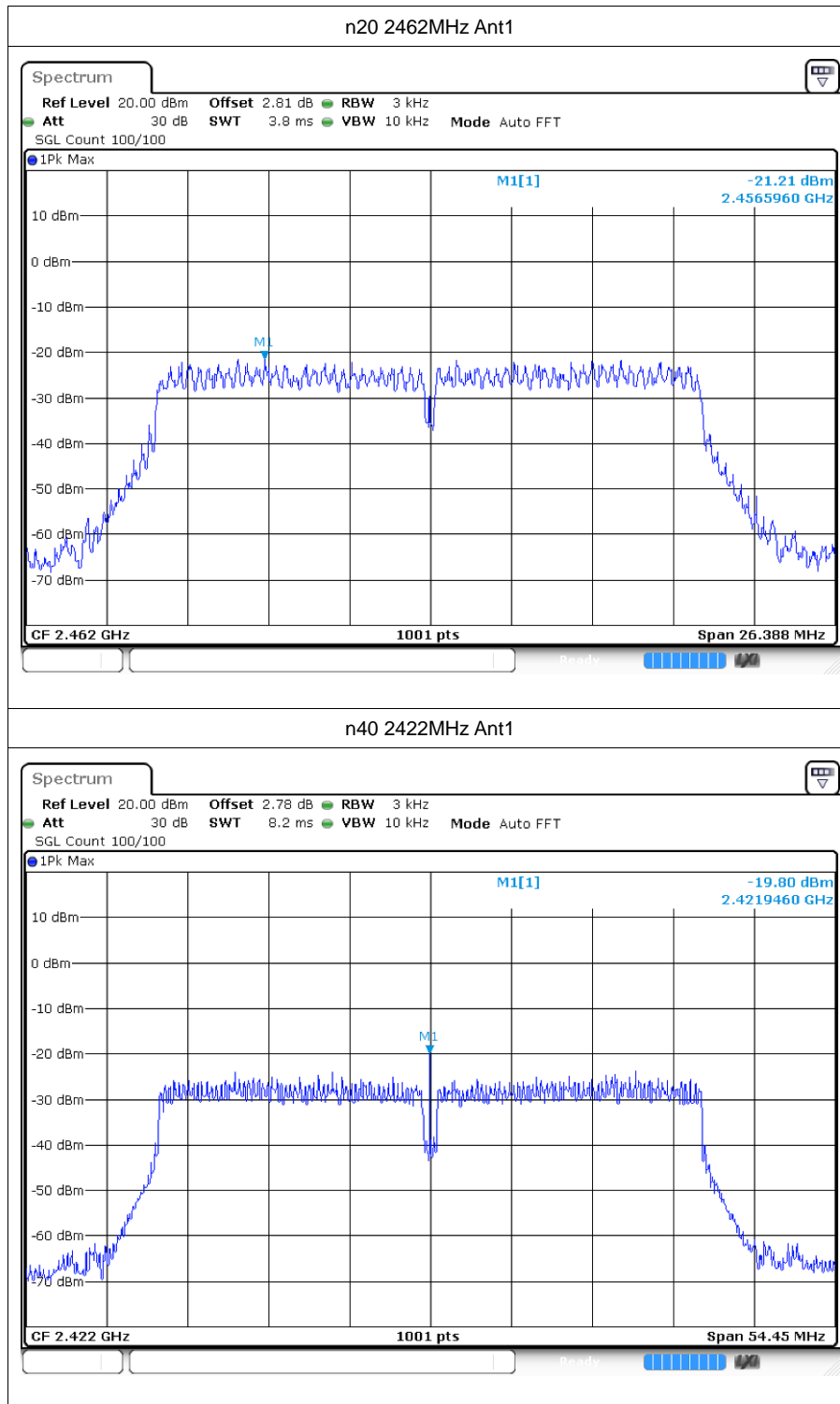
## 4.2 Test Graphs

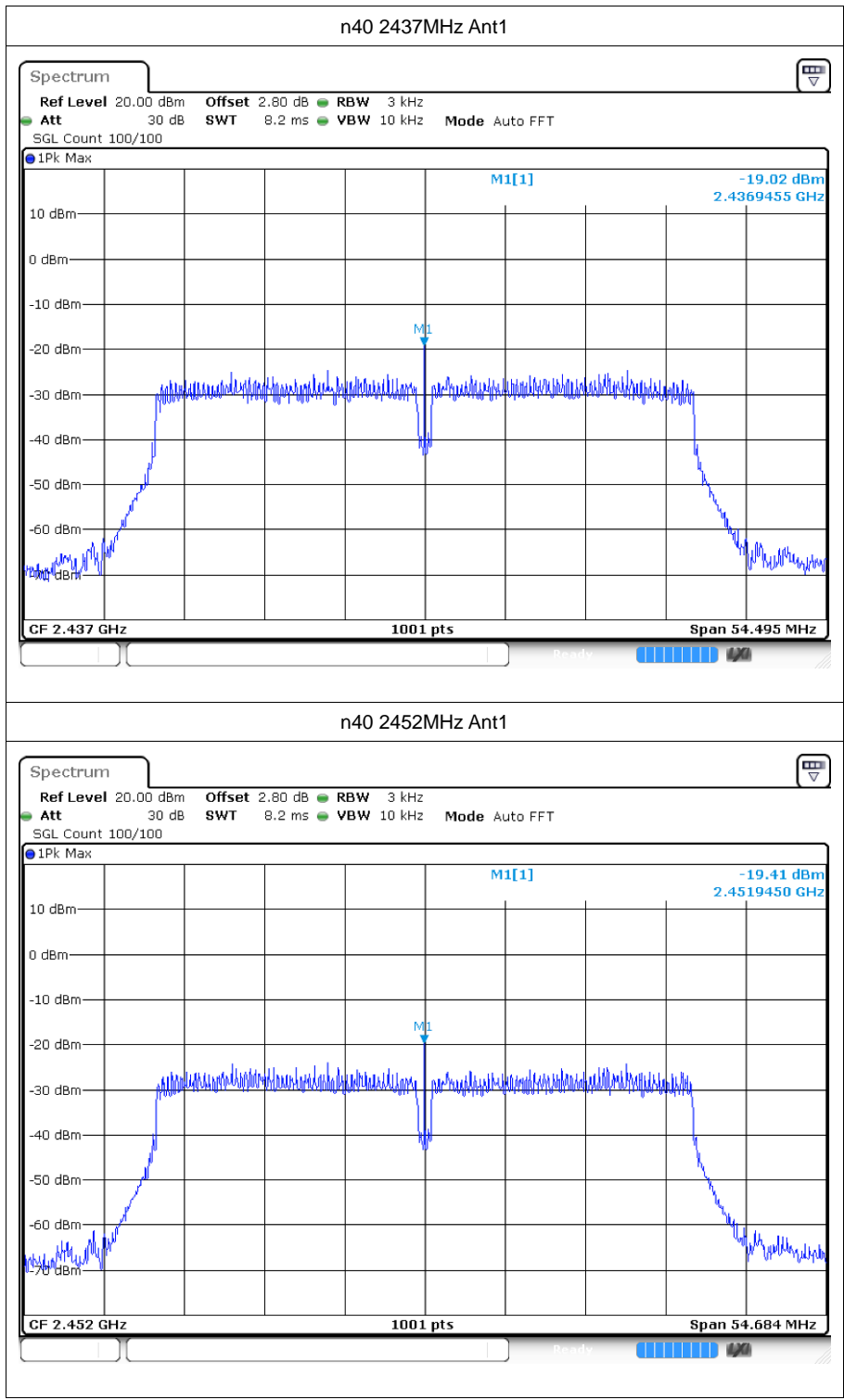














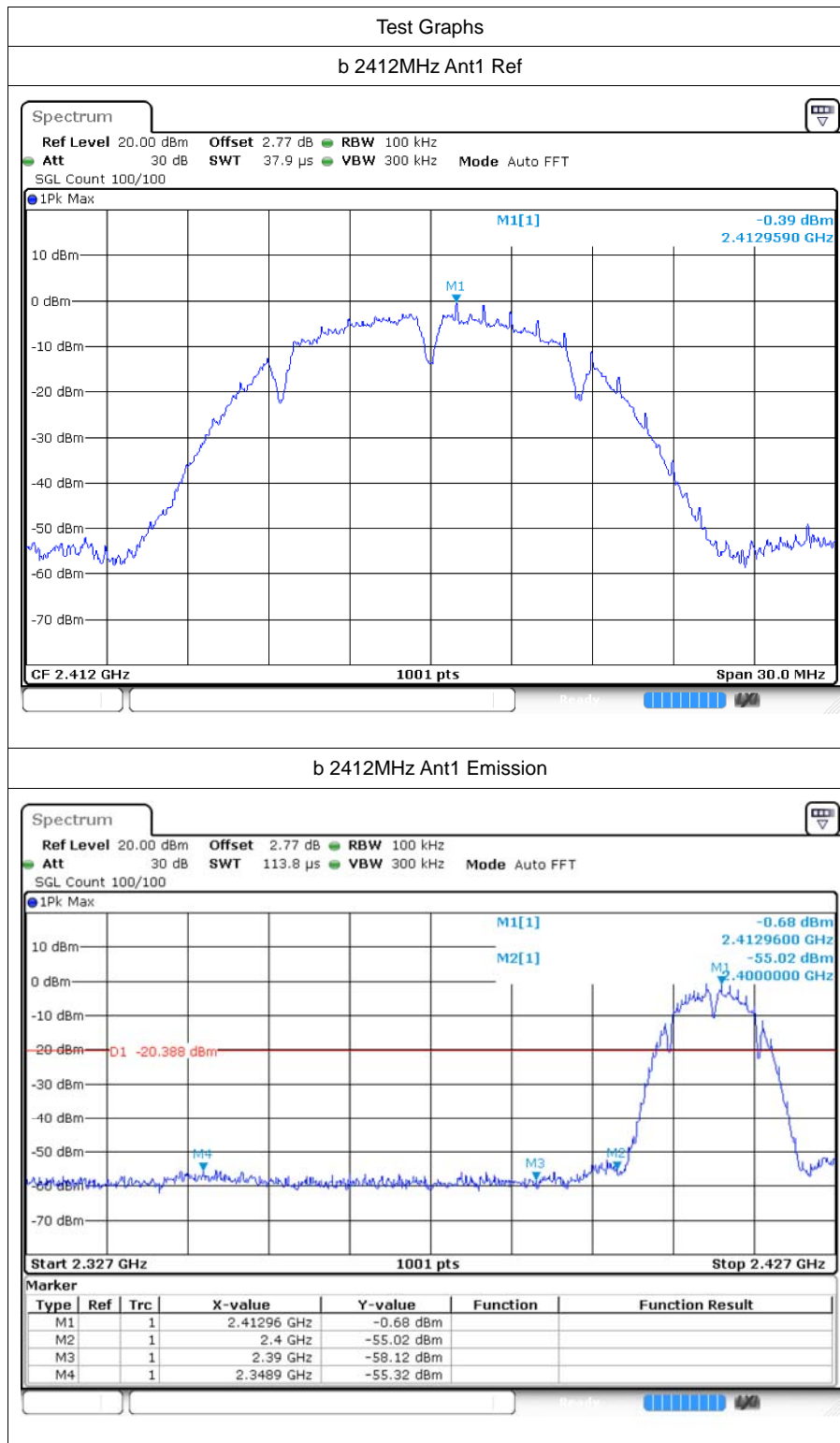


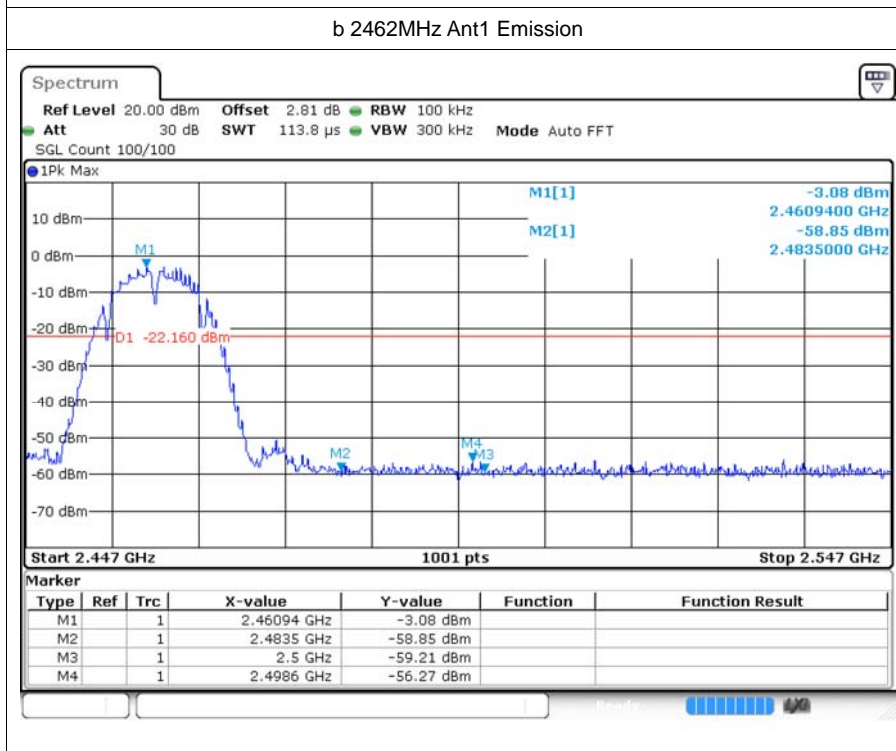
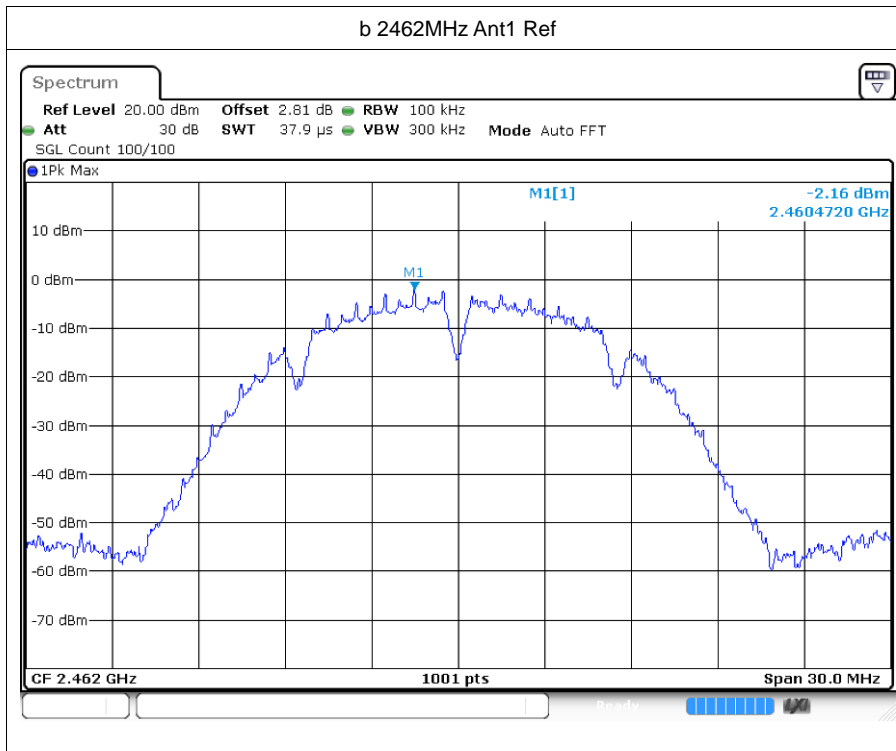
## 5 Band Edge

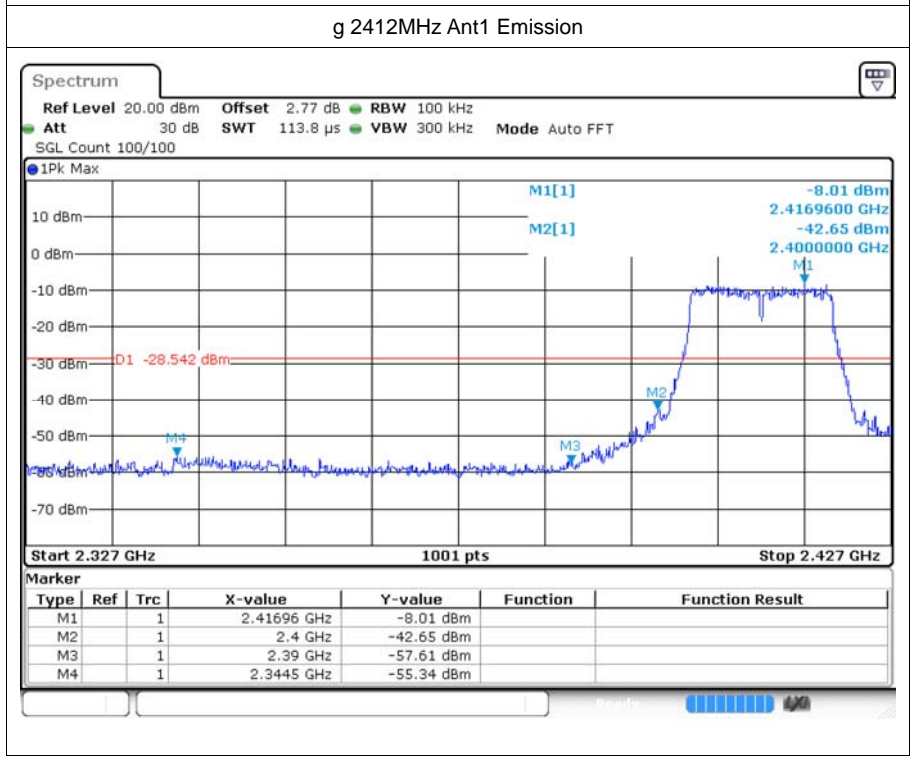
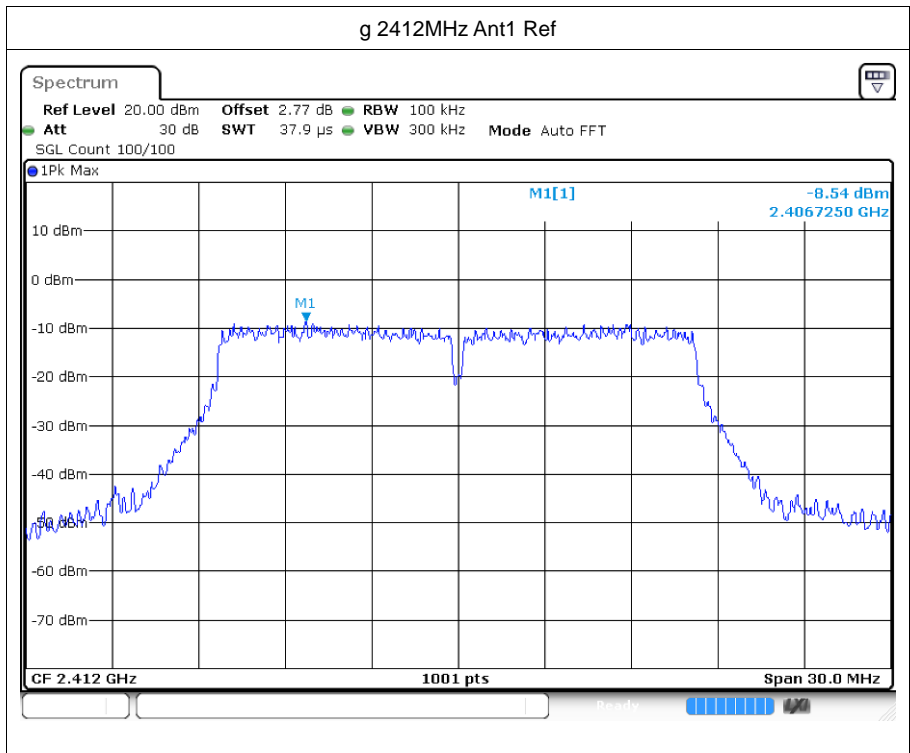
### 5.1 Test Result

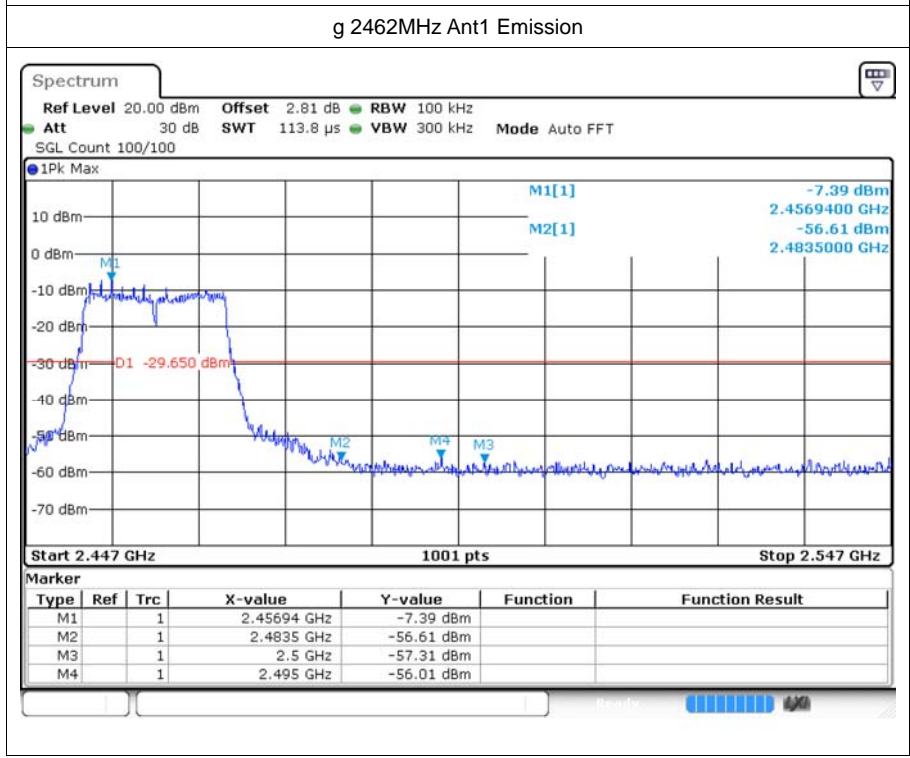
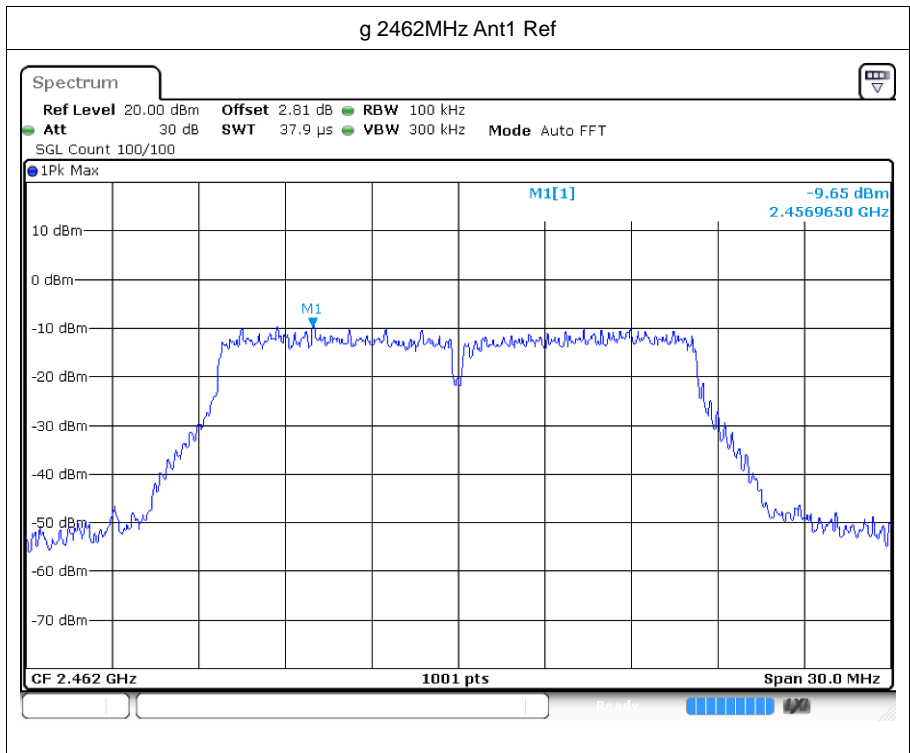
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-54.93	-20	-54.93
b	2462	Ant1	-54.11	-20	Pass
g	2412	Ant1	-46.8	-20	Pass
g	2462	Ant1	-46.35	-20	Pass
n20	2412	Ant1	-49.23	-20	Pass
n20	2462	Ant1	-45.22	-20	Pass
n40	2422	Ant1	-41.93	-20	Pass
n40	2452	Ant1	-38.96	-20	Pass

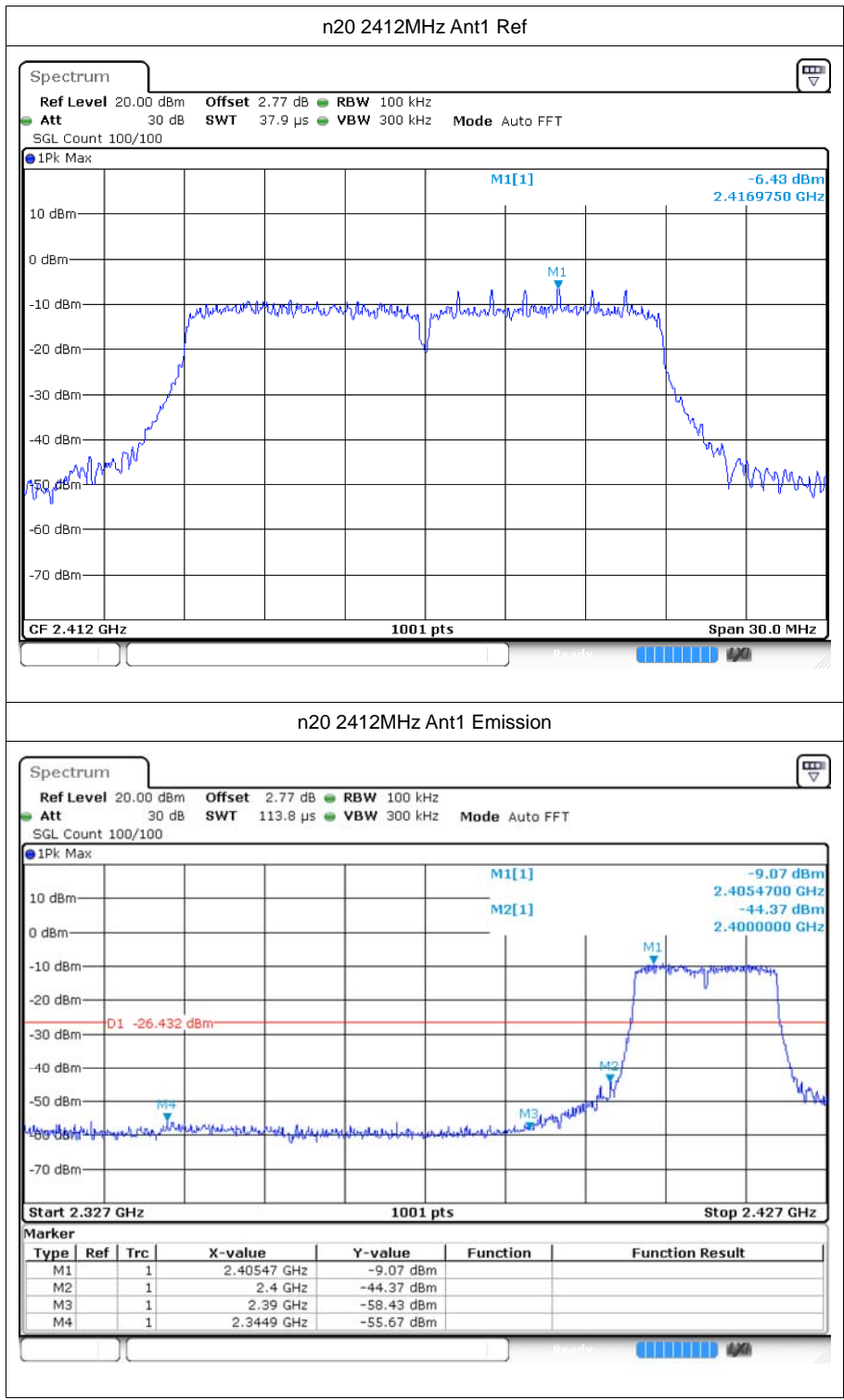
## 5.2 Test Graphs

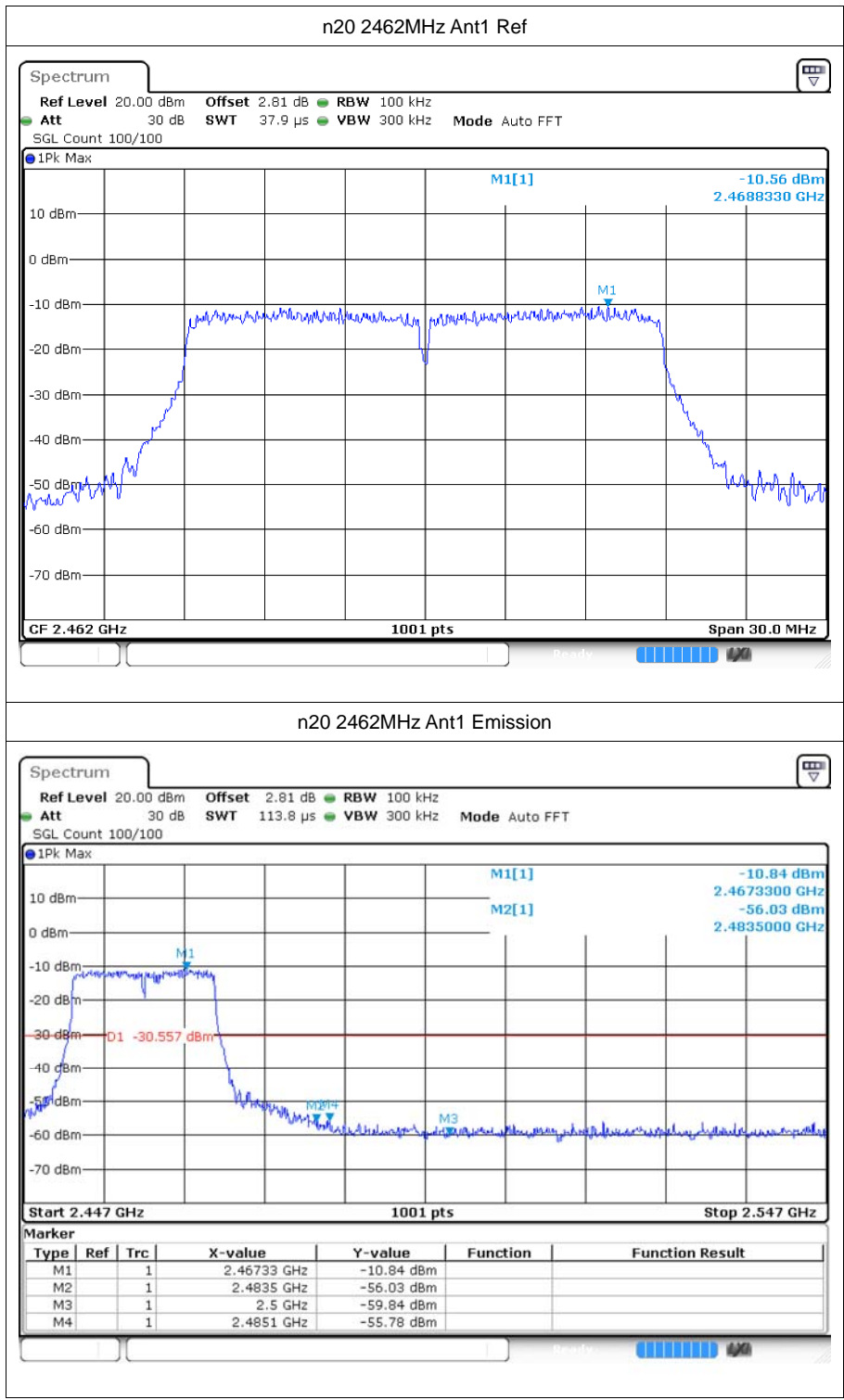


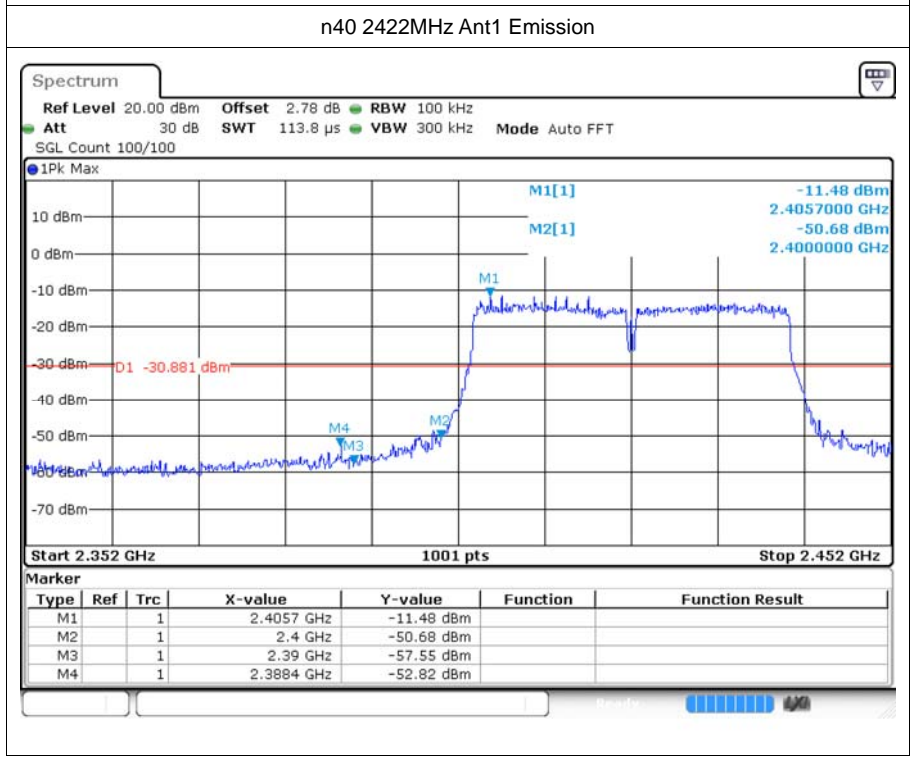
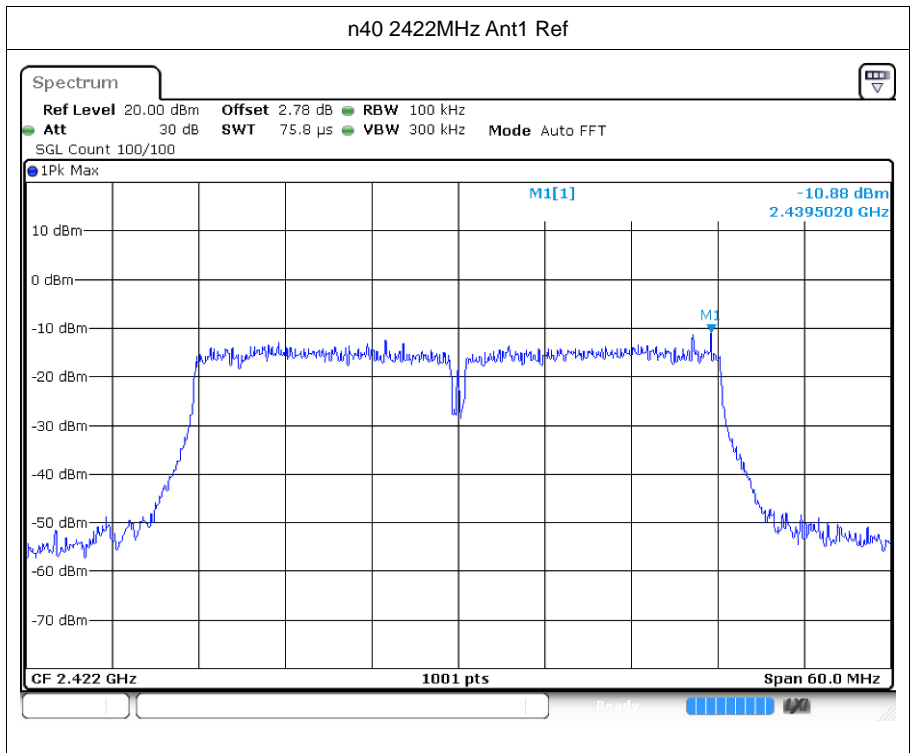




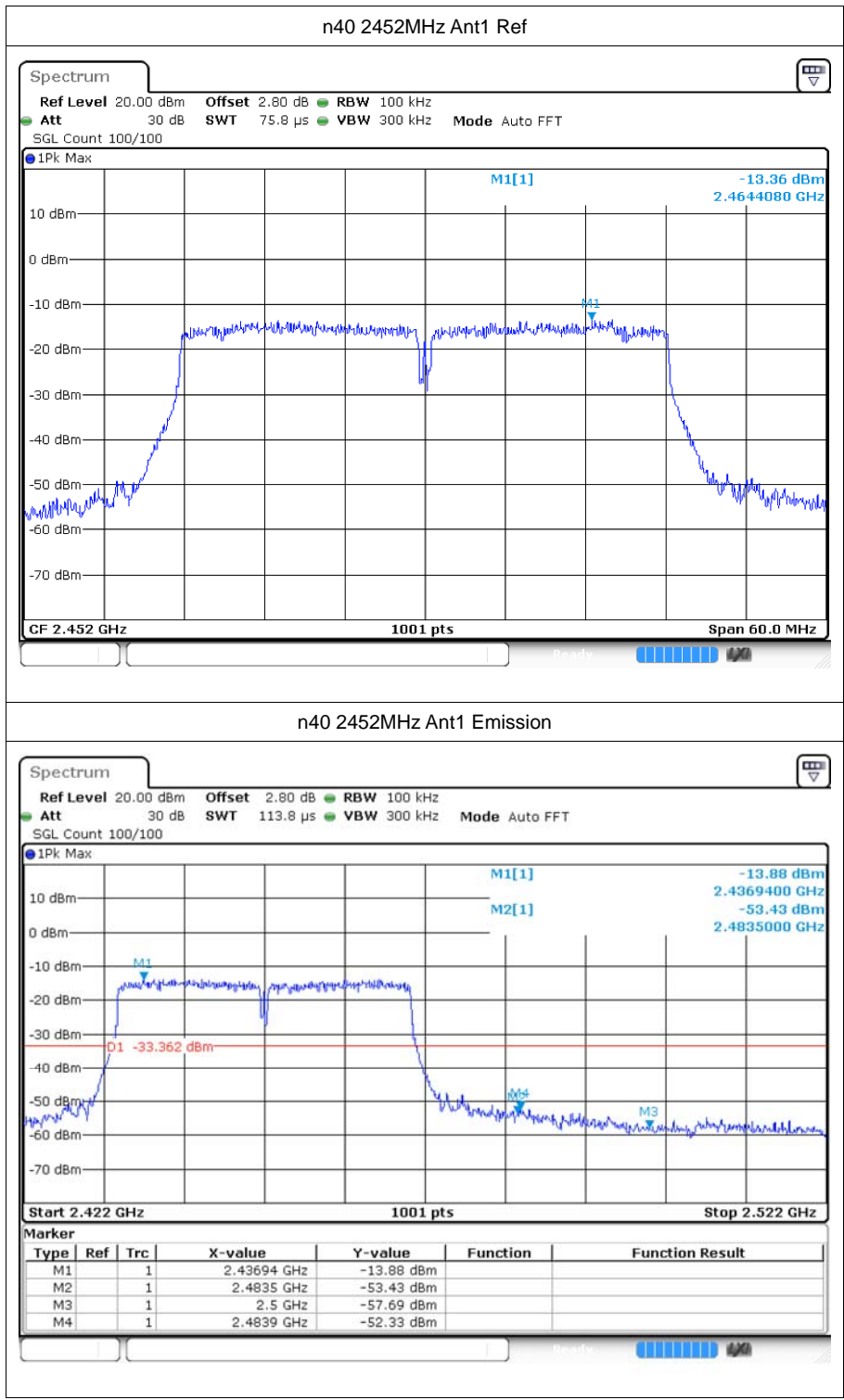










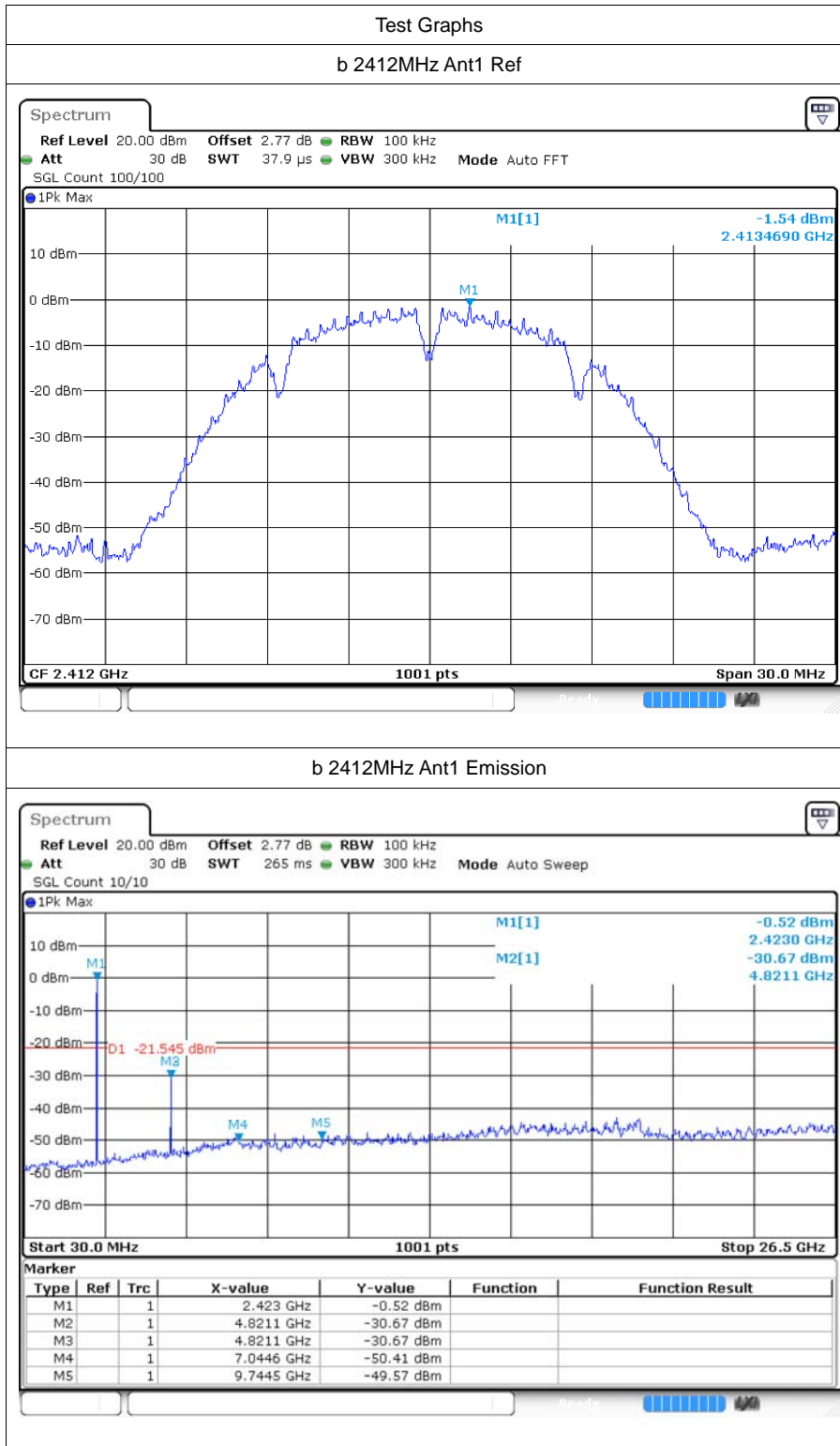


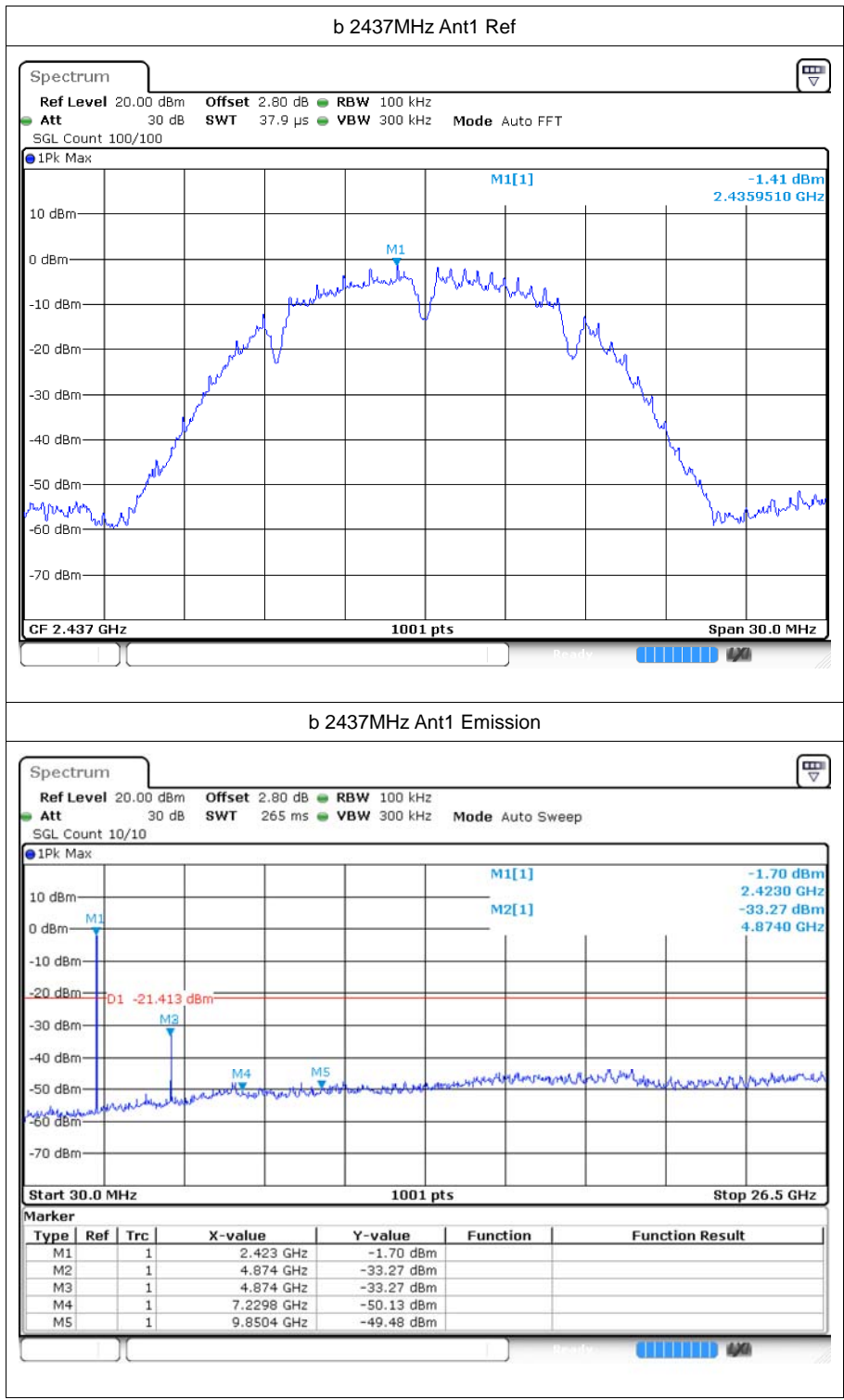
## 6 Conducted RF Spurious Emission

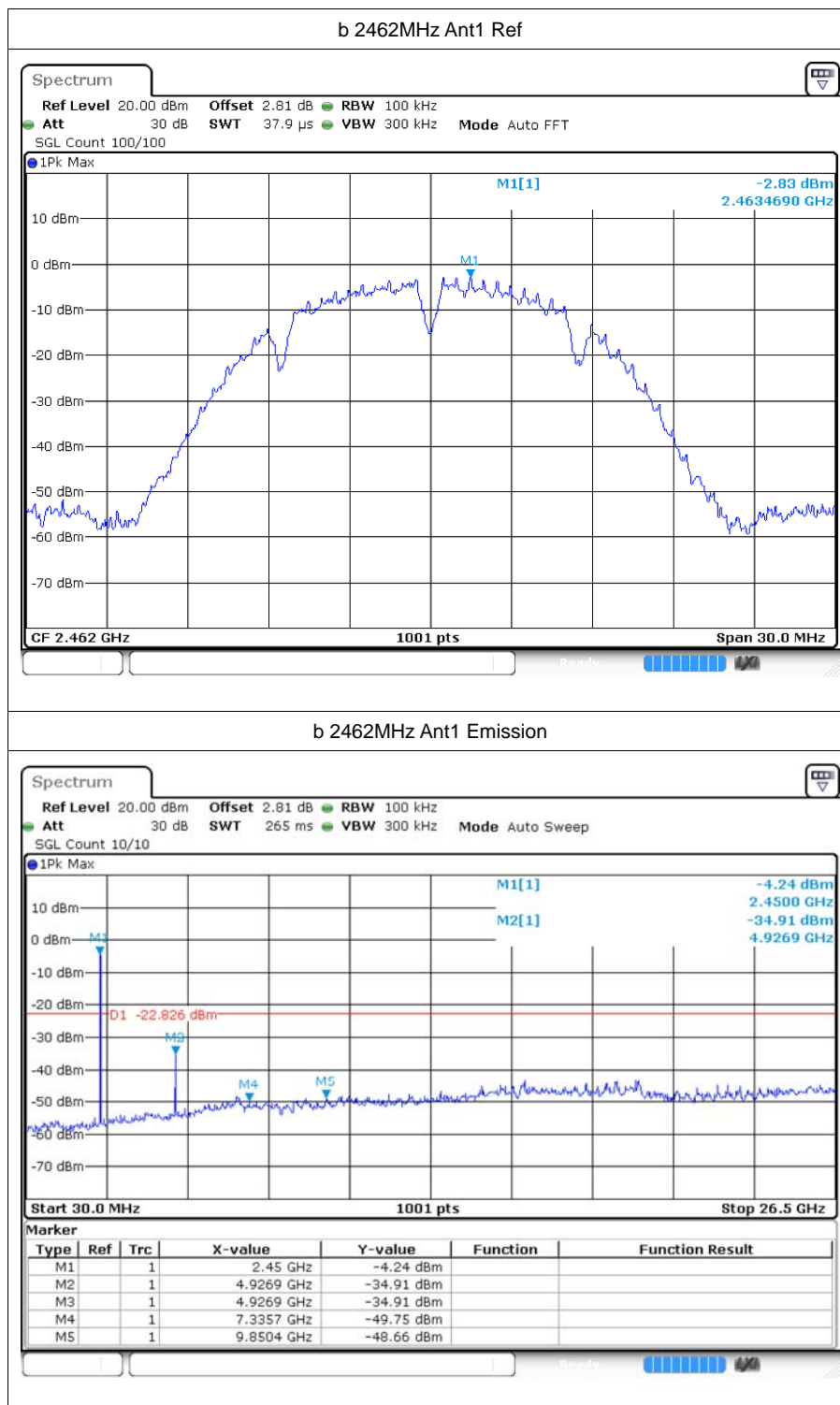
### 6.1 Test Result

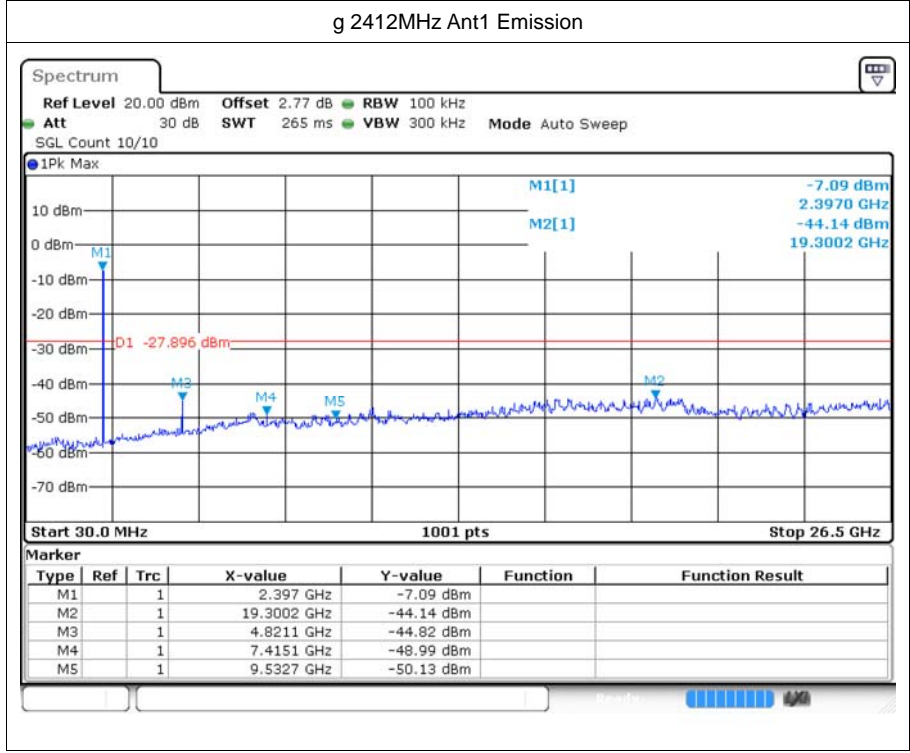
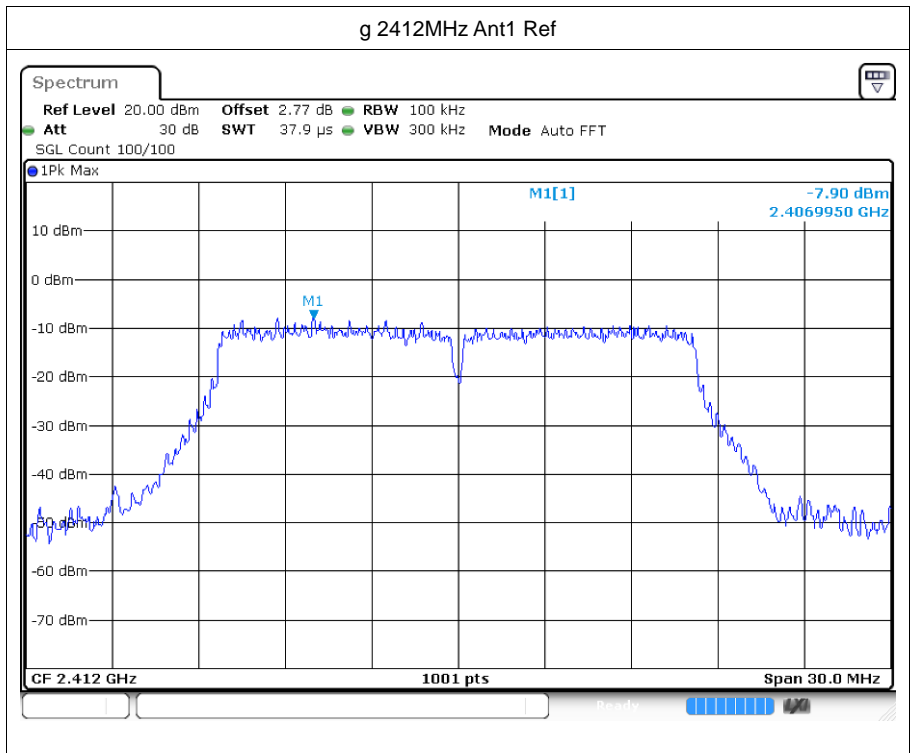
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
b	2412	Ant1	-29.13	-20	Pass
b	2437	Ant1	-31.86	-20	Pass
b	2462	Ant1	-32.07	-20	Pass
g	2412	Ant1	-36.23	-20	Pass
g	2437	Ant1	-36.49	-20	Pass
g	2462	Ant1	-34.96	-20	Pass
n20	2412	Ant1	-36.54	-20	Pass
n20	2437	Ant1	-35.52	-20	Pass
n20	2462	Ant1	-35.07	-20	Pass
n40	2422	Ant1	-32.86	-20	Pass
n40	2437	Ant1	-29.72	-20	Pass
n40	2452	Ant1	-31.26	-20	Pass

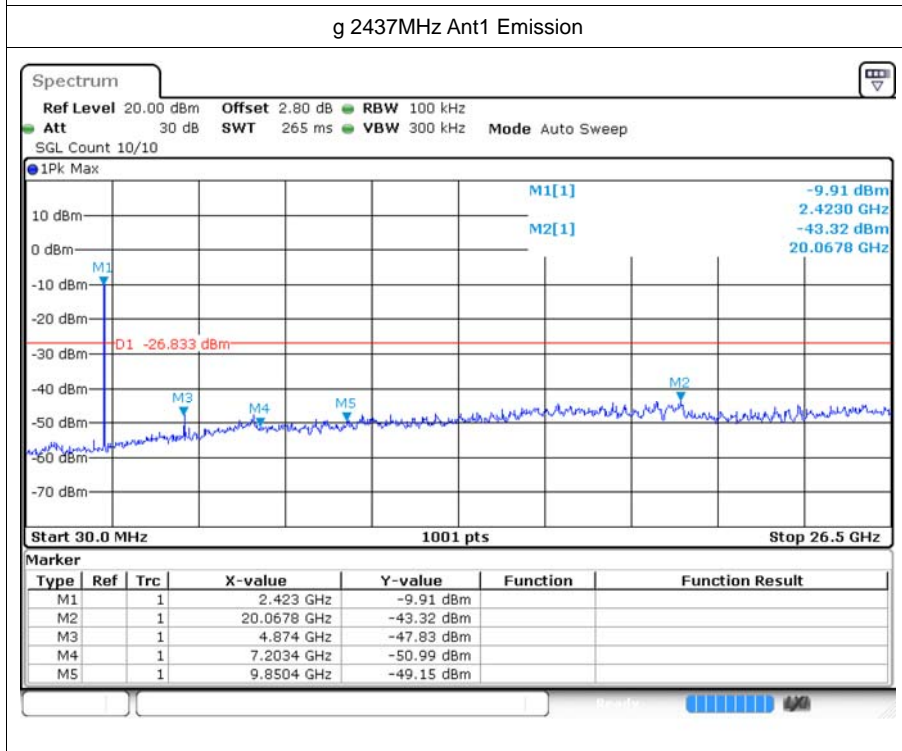
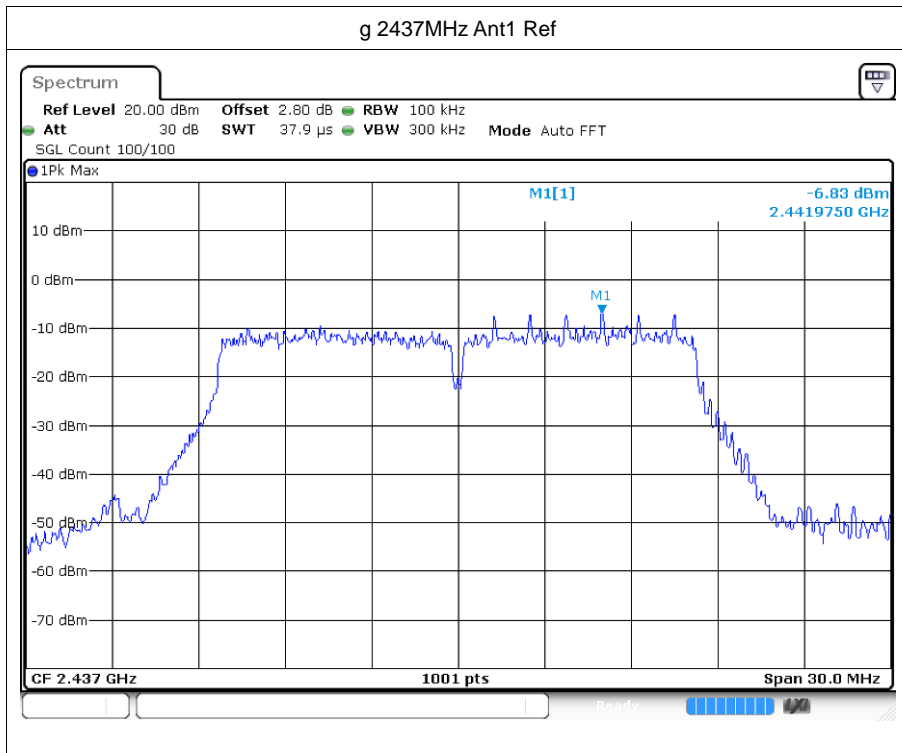
## 6.2 Test Graphs

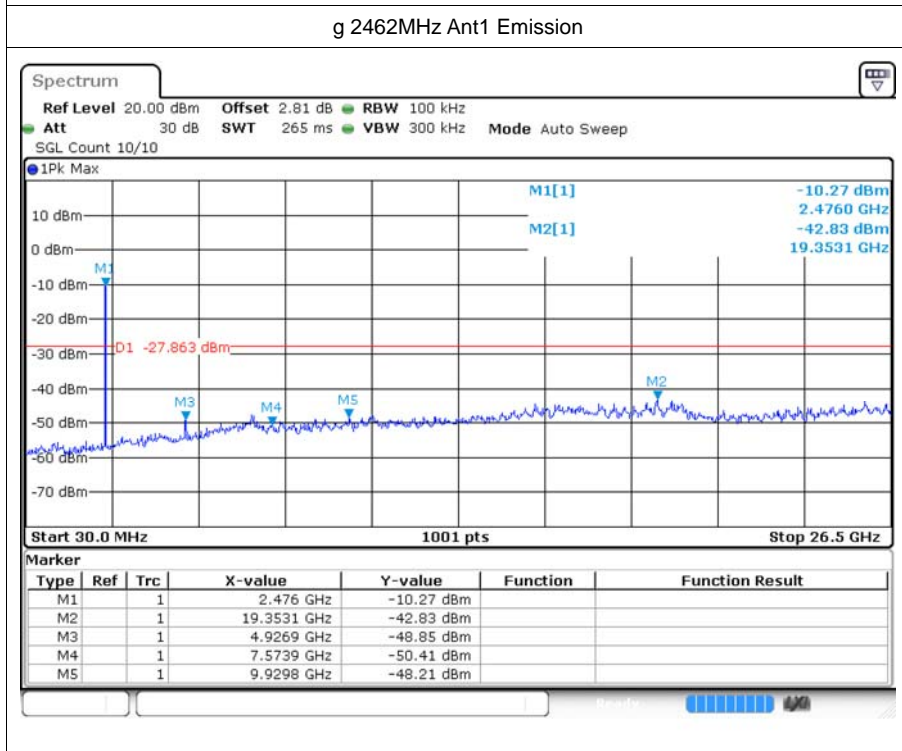
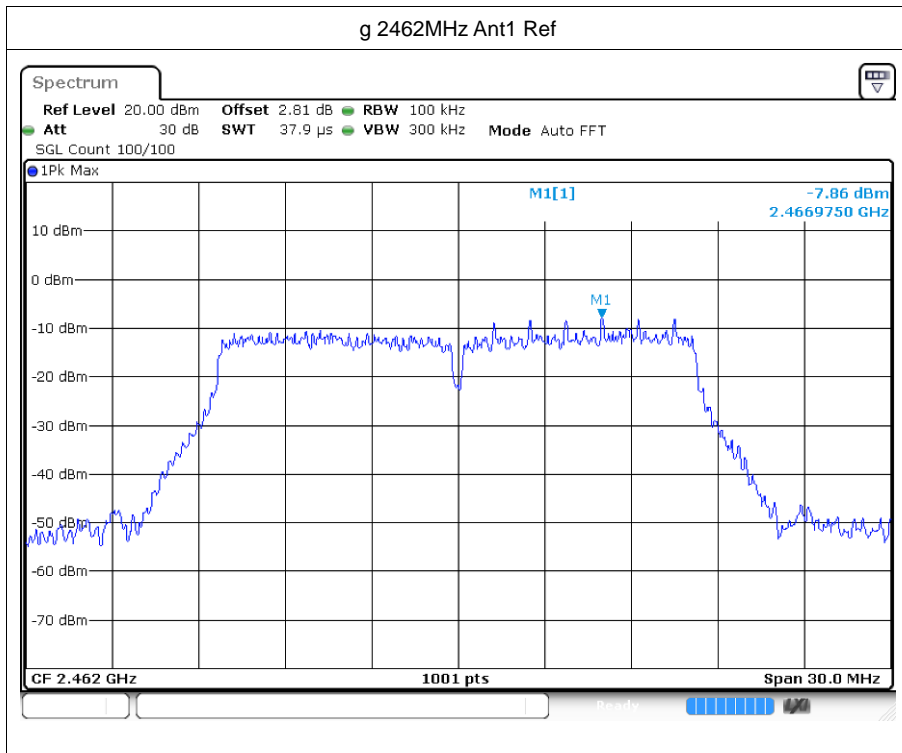




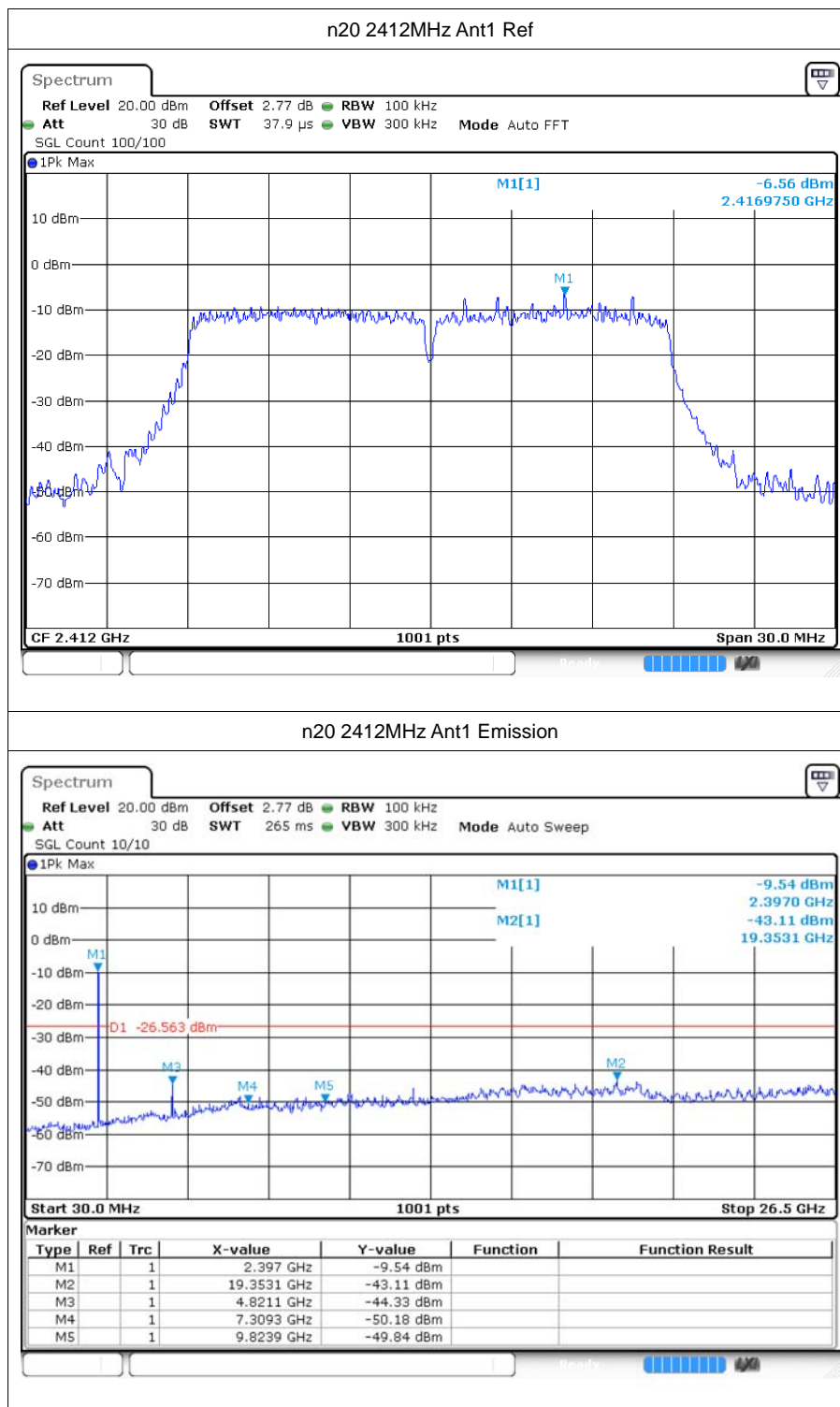


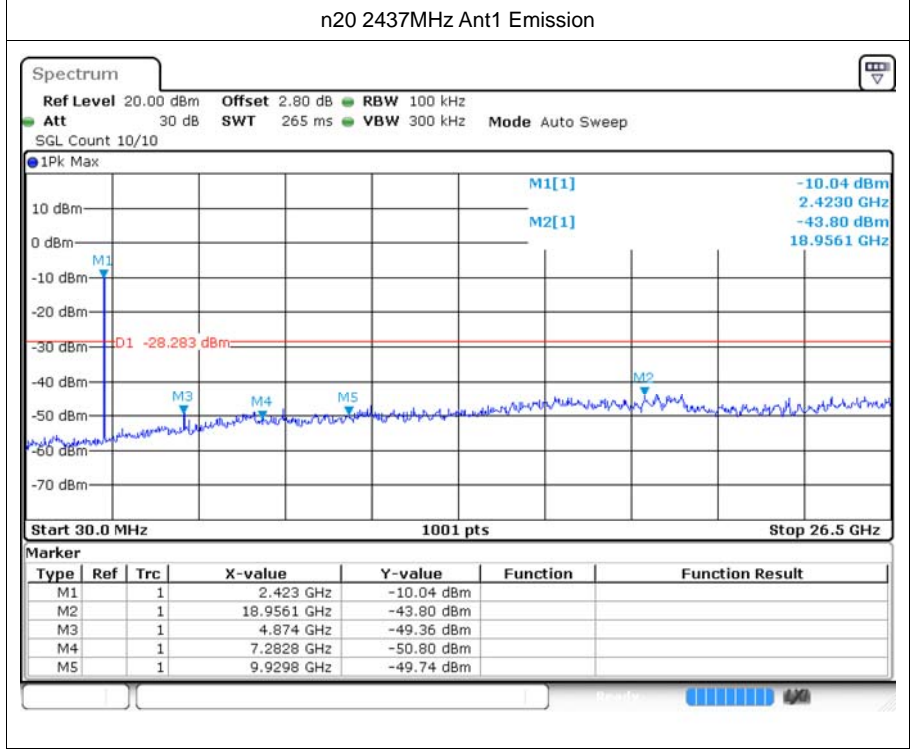
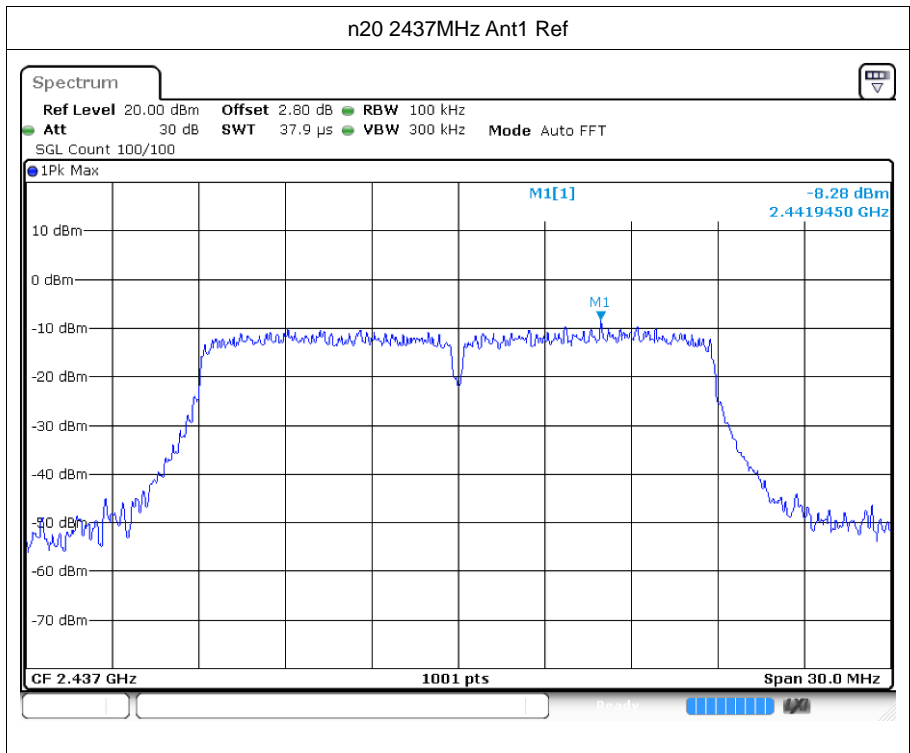


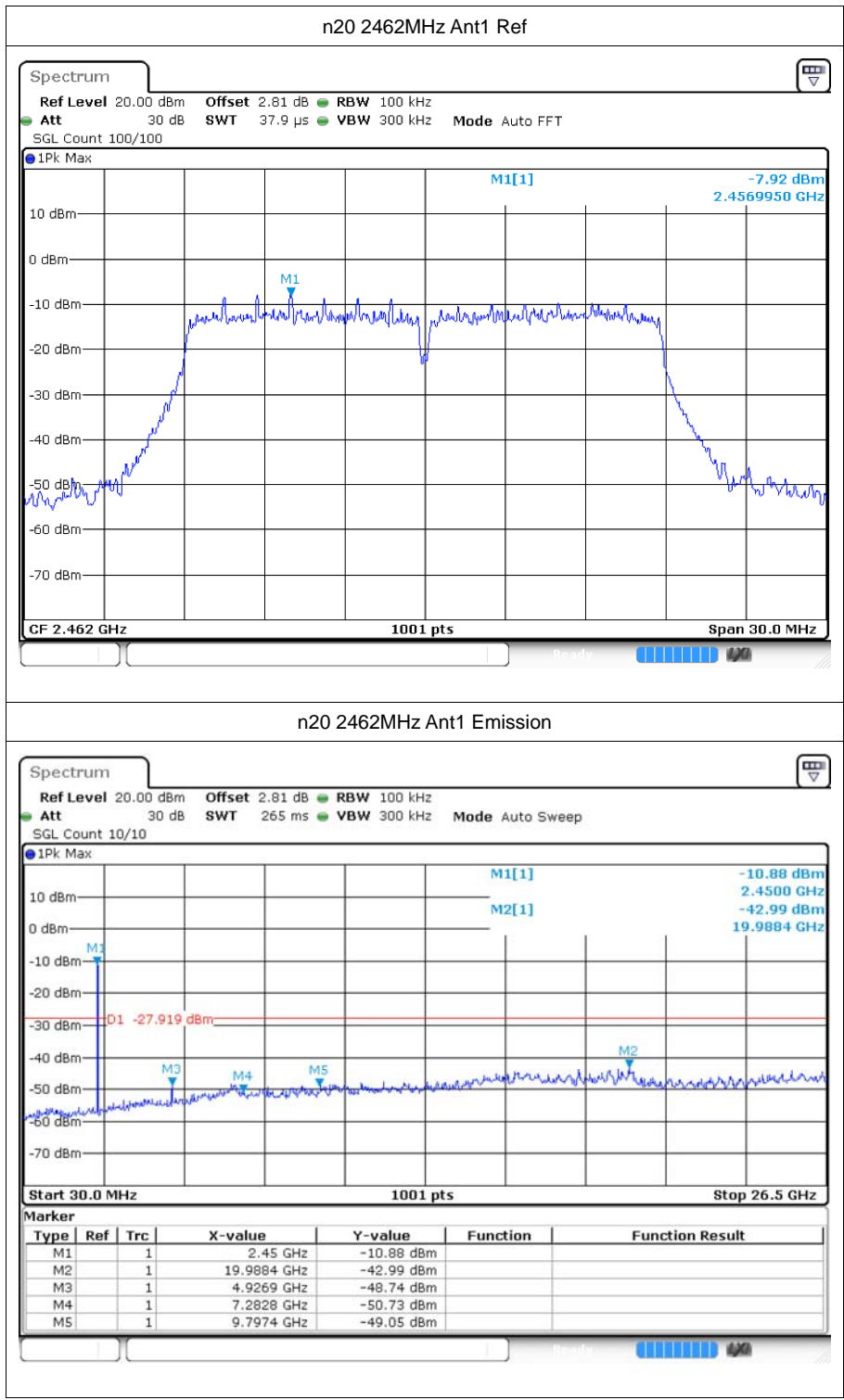


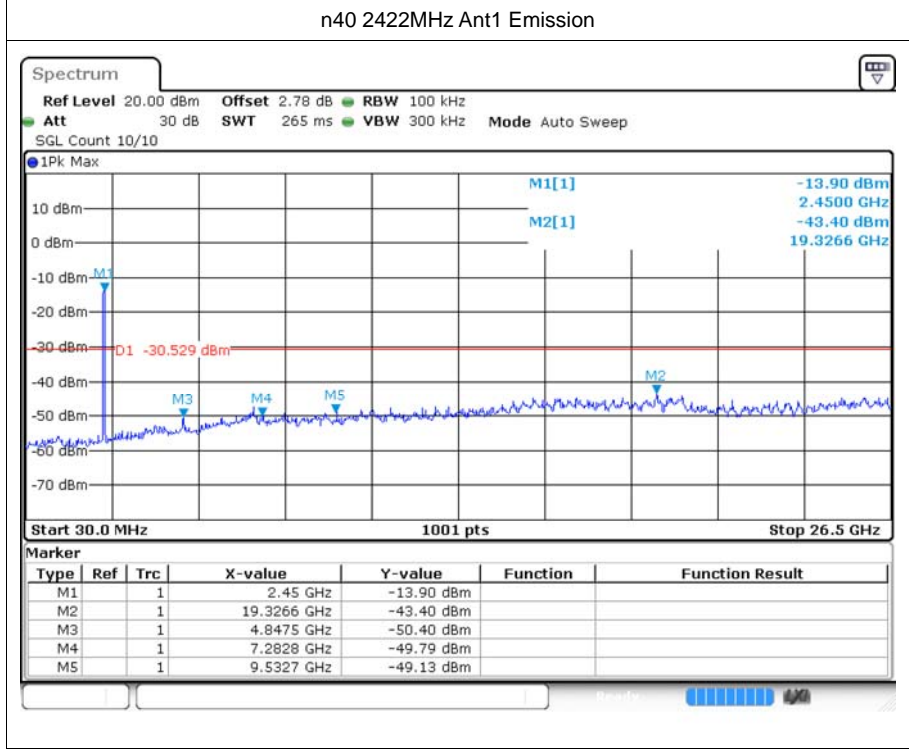
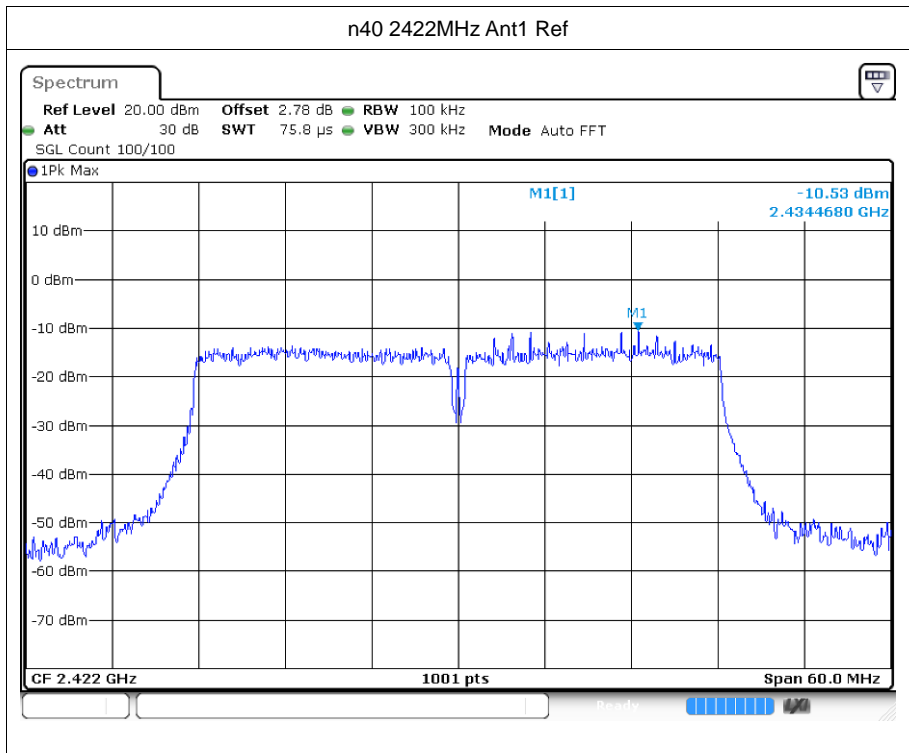


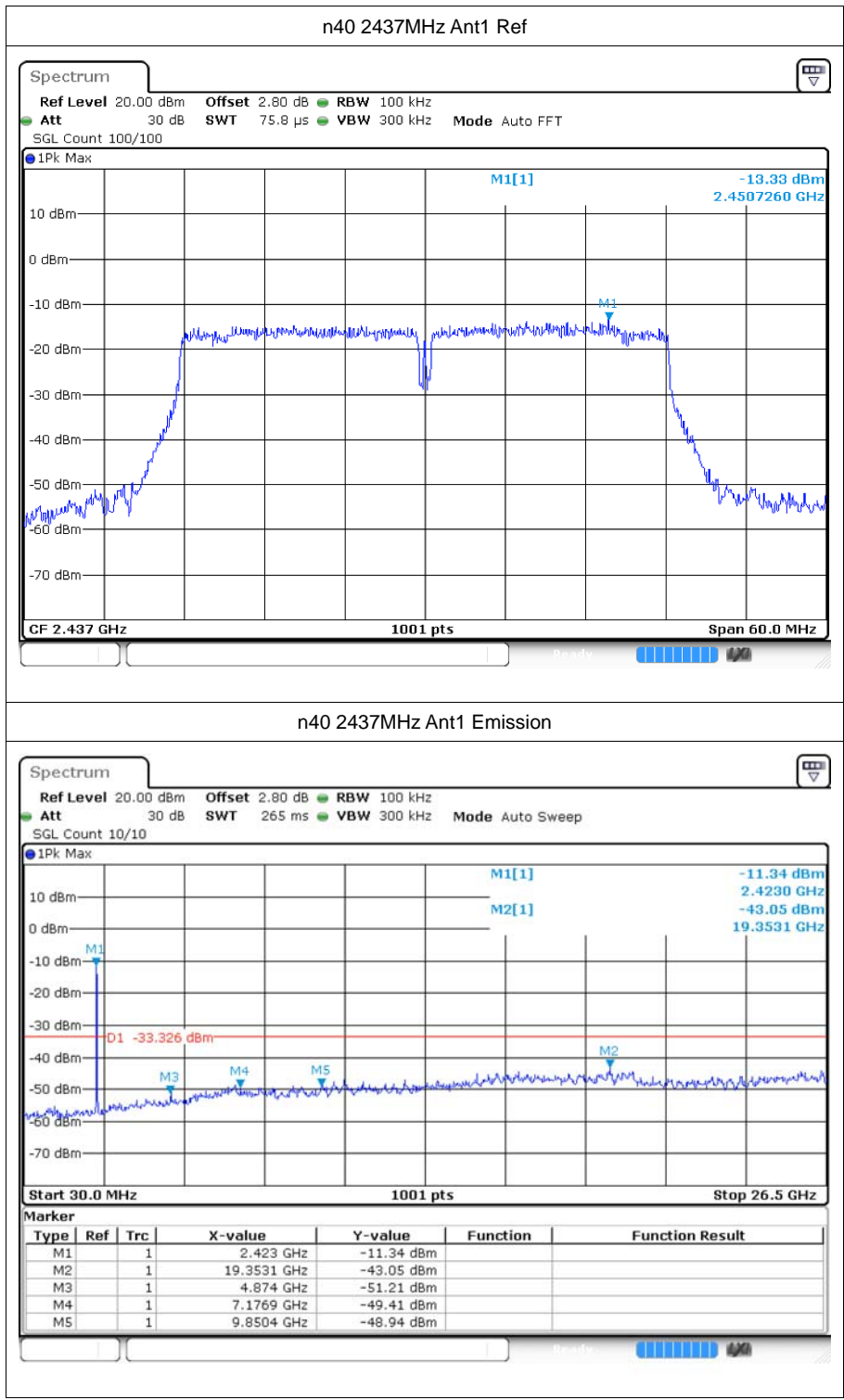


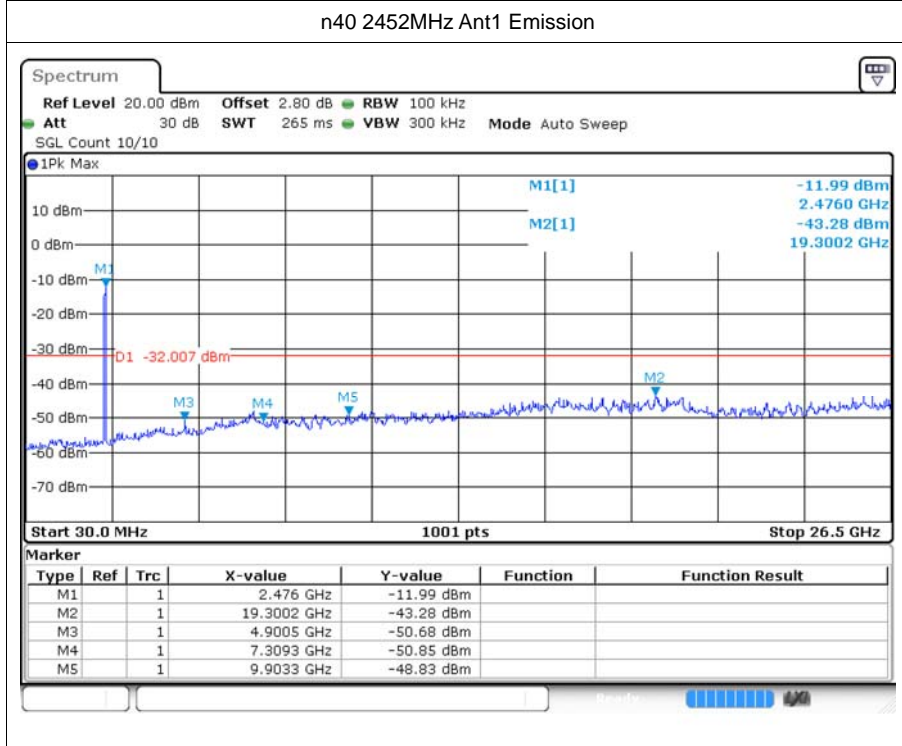
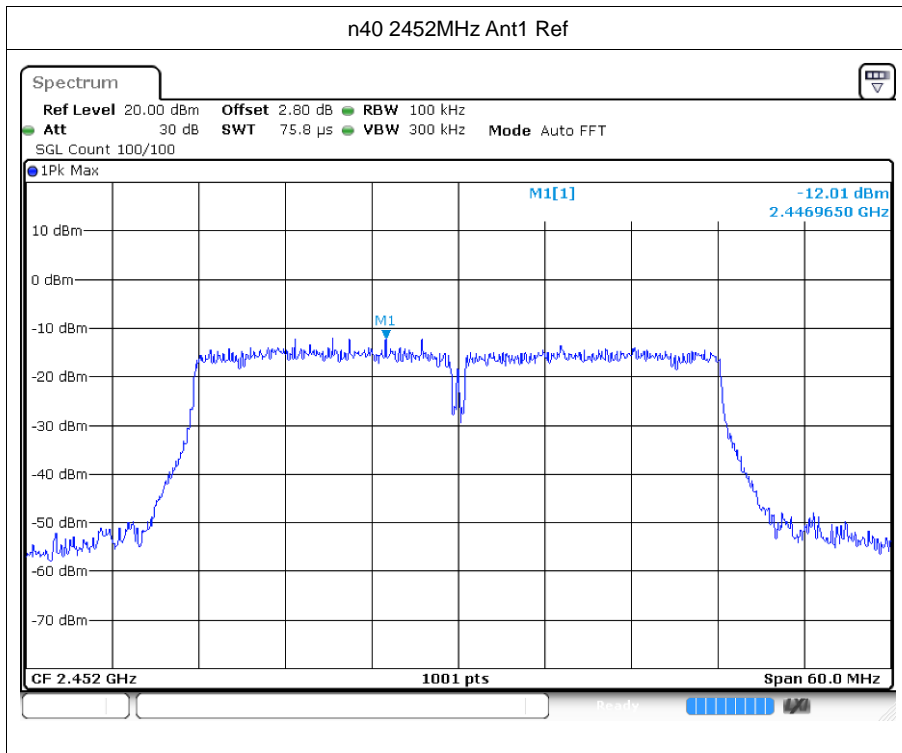














## 7 Restrict Band

### 7.1 Test Result

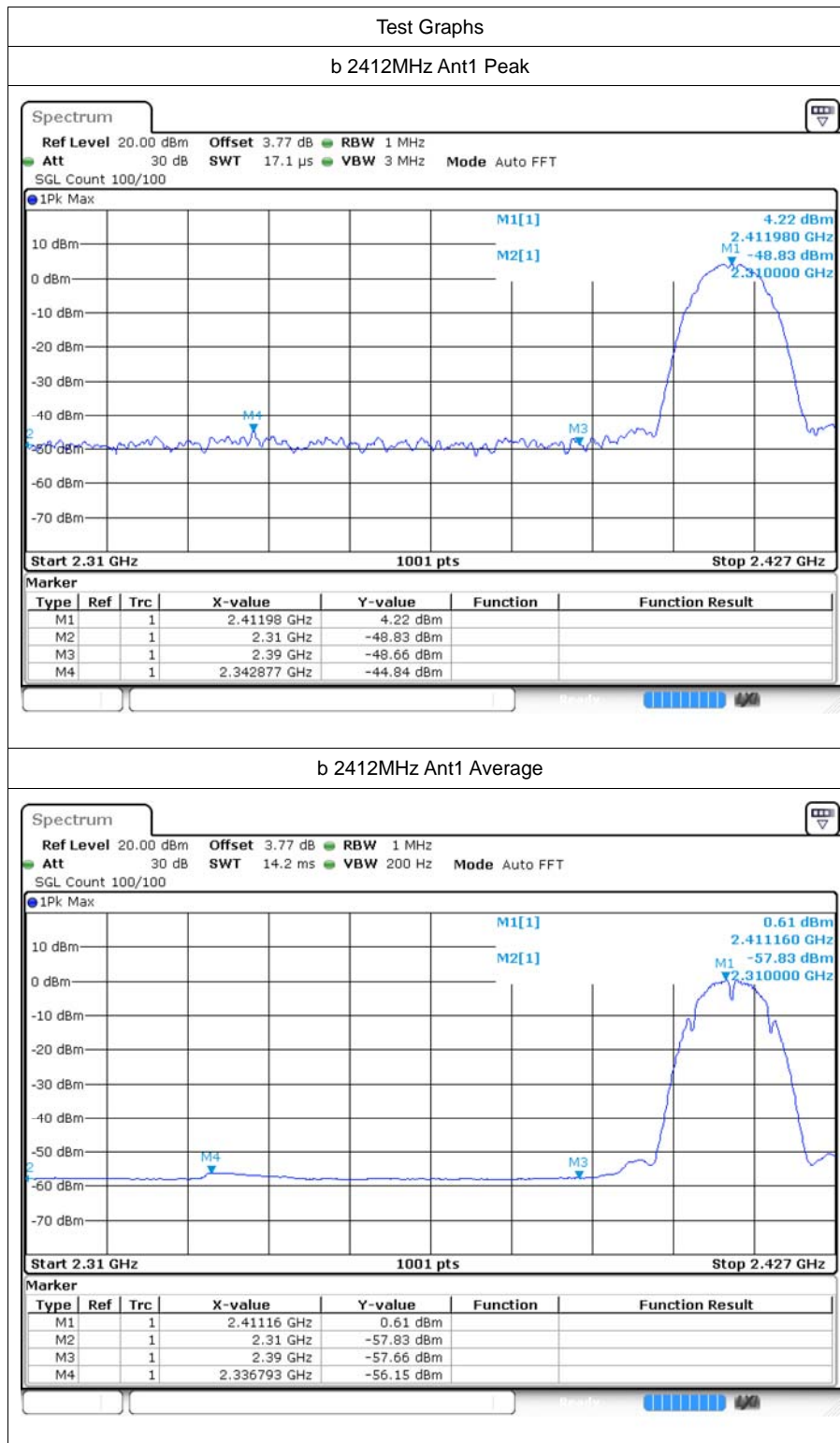
Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBUV/m)	Detector	Limit (dBUV/m)	Verdict
b	2412	Ant1	2310	-48.82	2	48.44	Peak	74	Pass
b	2412	Ant1	2310	-57.83	2	39.43	Average	54	Pass
b	2412	Ant1	2342.877	-44.83	2	52.43	Peak	74	Pass
b	2412	Ant1	2336.793	-56.15	2	41.11	Average	54	Pass
b	2412	Ant1	2390	-48.65	2	48.61	Peak	74	Pass
b	2412	Ant1	2390	-57.65	2	39.61	Average	54	Pass
b	2462	Ant1	2483.5	-48.08	2	49.18	Peak	74	49.18
b	2462	Ant1	2483.5	-57.53	2	39.73	Average	54	Pass
b	2462	Ant1	2483.888	-46.76	2	50.5	Peak	74	Pass
b	2462	Ant1	2485.637	-57.35	2	39.91	Average	54	Pass
b	2462	Ant1	2500	-49.89	2	47.37	Peak	74	Pass
b	2462	Ant1	2500	-57.6	2	39.66	Average	54	Pass
g	2412	Ant1	2310	-49.39	2	47.87	Peak	74	Pass
g	2412	Ant1	2310	-57.58	2	39.68	Average	54	Pass
g	2412	Ant1	2324.976	-45.17	2	52.09	Peak	74	Pass
g	2412	Ant1	2337.378	-55.69	2	41.57	Average	54	Pass
g	2412	Ant1	2390	-46.57	2	48.61	Peak	74	Pass
g	2412	Ant1	2390	-56.62	2	40.64	Average	54	Pass
g	2462	Ant1	2483.5	-49.17	2	48.09	Peak	74	Pass
g	2462	Ant1	2483.5	-55.72	2	41.54	Average	54	Pass
g	2462	Ant1	2483.888	-45.68	2	51.58	Peak	74	Pass
g	2462	Ant1	2483.57	-55.71	2	41.55	Average	54	Pass
g	2462	Ant1	2500	-48.46	2	47.37	Peak	74	Pass
g	2462	Ant1	2500	-57.52	2	39.74	Average	54	Pass
n20	2412	Ant1	2310	-49.04	2	48.22	Peak	74	Pass
n20	2412	Ant1	2310	-57.93	2	39.33	Average	54	Pass
n20	2412	Ant1	2337.495	-45.46	2	51.8	Peak	74	Pass
n20	2412	Ant1	2336.91	-56.05	2	41.21	Average	54	Pass
n20	2412	Ant1	2390	-47.01	2	50.25	Peak	74	Pass
n20	2412	Ant1	2390	-56.39	2	40.87	Average	54	Pass
n20	2462	Ant1	2483.5	-43.33	2	53.93	Peak	74	Pass
n20	2462	Ant1	2483.5	-55.55	2	41.71	Average	54	Pass
n20	2462	Ant1	2483.782	-42.6	2	54.66	Peak	74	Pass
n20	2462	Ant1	2483.517	-55.55	2	41.71	Average	54	Pass

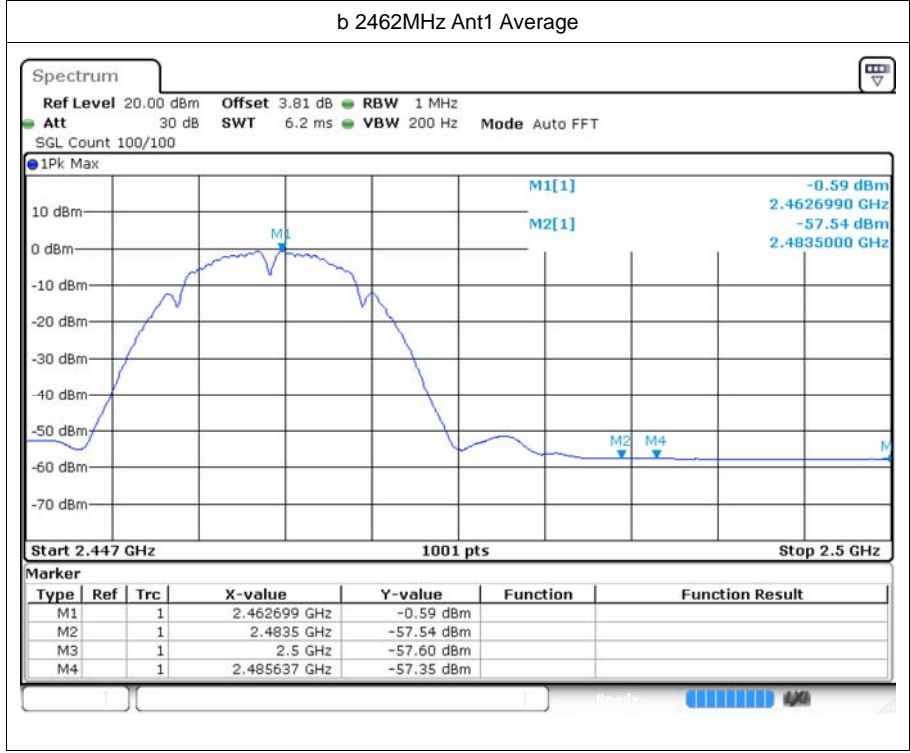
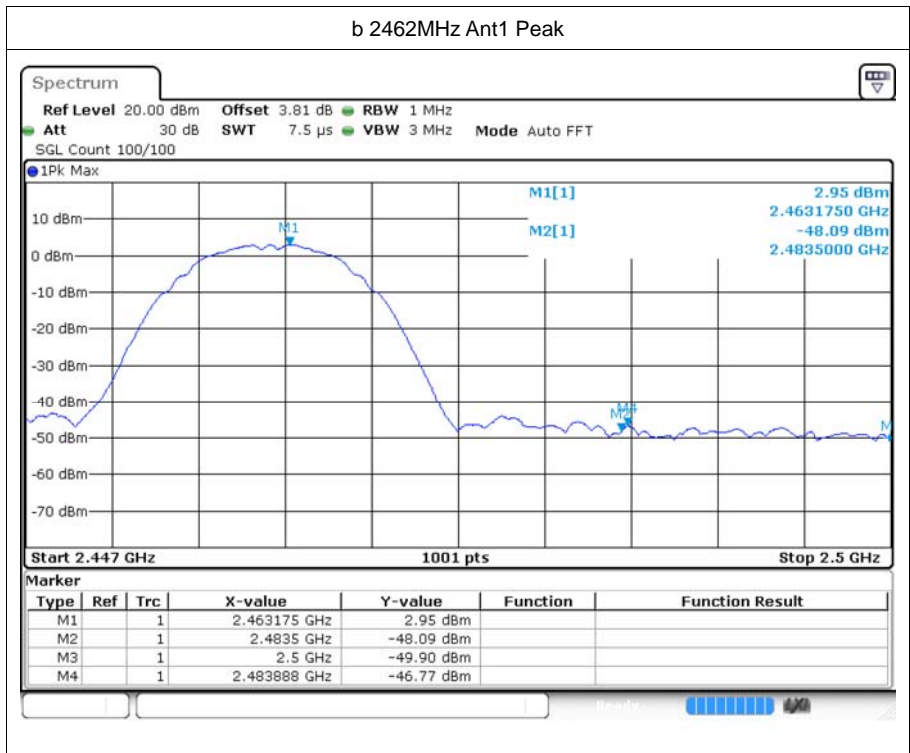


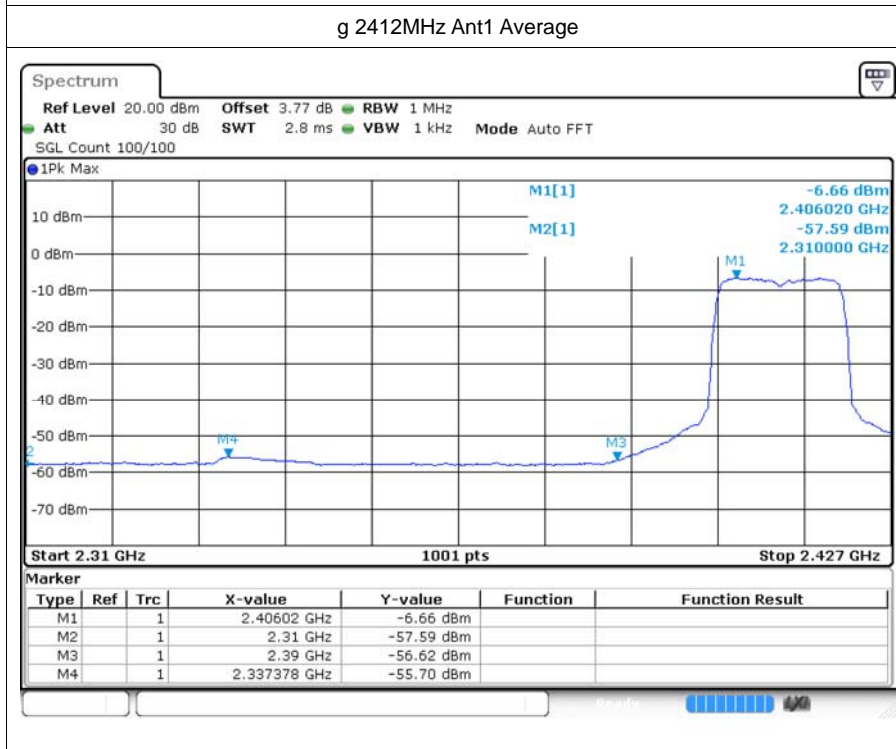
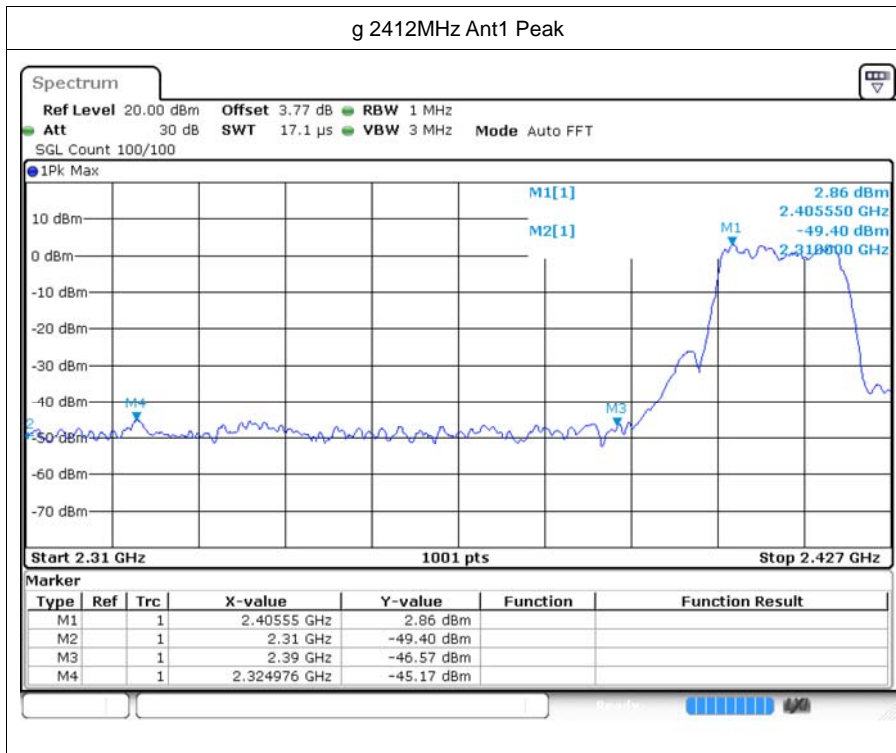
n20	2462	Ant1	2500	-47.54	2	49.72	Peak	74	Pass
n20	2462	Ant1	2500	-57.76	2	39.5	Average	54	Pass
n40	2422	Ant1	2310	-49.8	2	47.46	Peak	74	Pass
n40	2422	Ant1	2310	-57.62	2	39.64	Average	54	Pass
n40	2422	Ant1	2344.79	-44.11	2	53.15	Peak	74	Pass
n40	2422	Ant1	2389.52	-54.94	2	42.32	Average	54	Pass
n40	2422	Ant1	2390	-46.86	2	50.4	Peak	74	Pass
n40	2422	Ant1	2390	-55.15	2	42.11	Average	54	Pass
n40	2452	Ant1	2483.5	-43.98	2	53.28	Peak	74	Pass
n40	2452	Ant1	2483.5	-53.13	2	44.13	Average	54	Pass
n40	2452	Ant1	2486.194	-40.53	2	56.73	Peak	74	Pass
n40	2452	Ant1	2483.932	-53.05	2	44.21	Average	54	Pass
n40	2452	Ant1	2500	-48.44	2	48.82	Peak	74	Pass
n40	2452	Ant1	2500	-56.67	2	40.59	Average	54	Pass

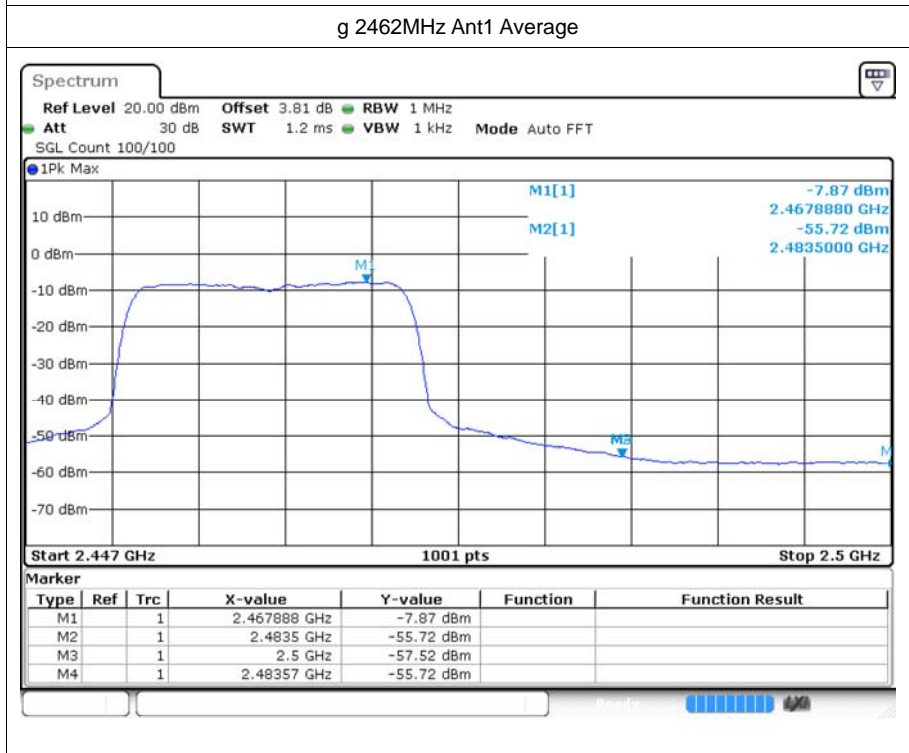
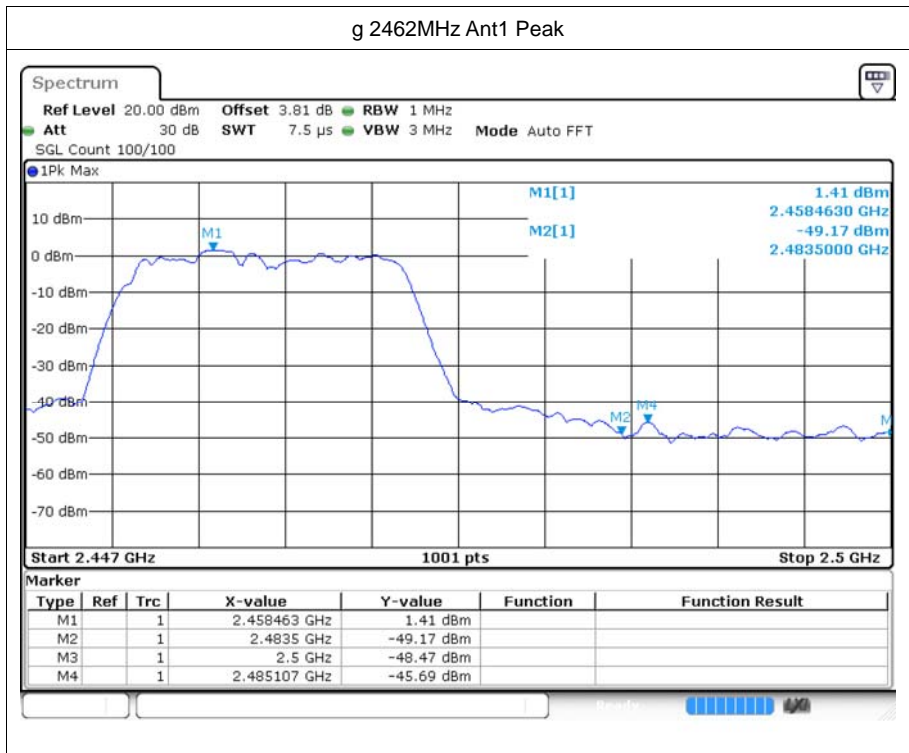


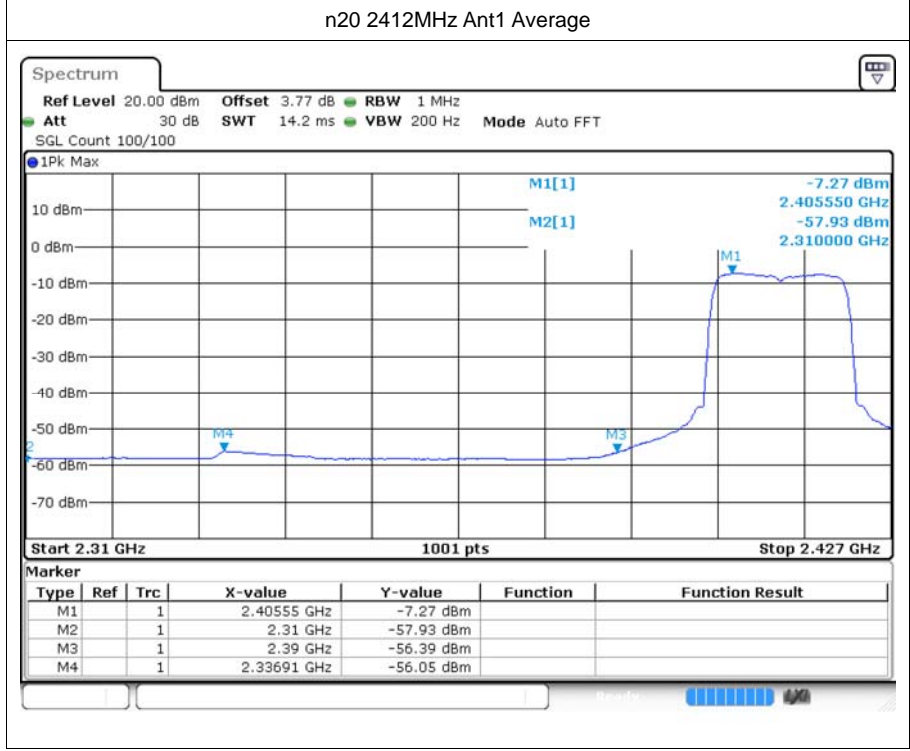
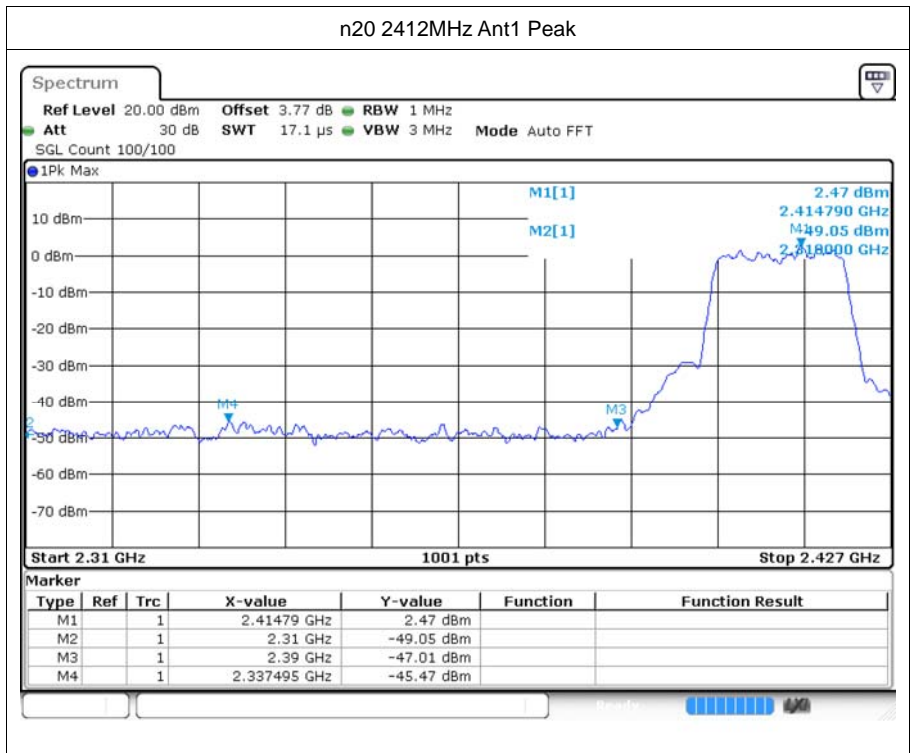
## 7.2 Test Graphs

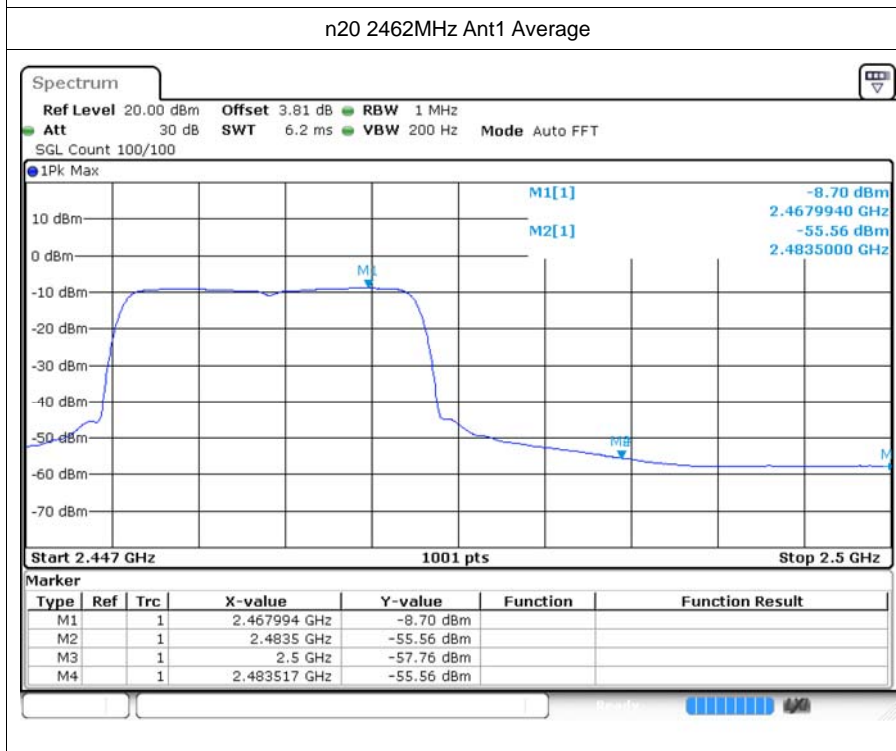
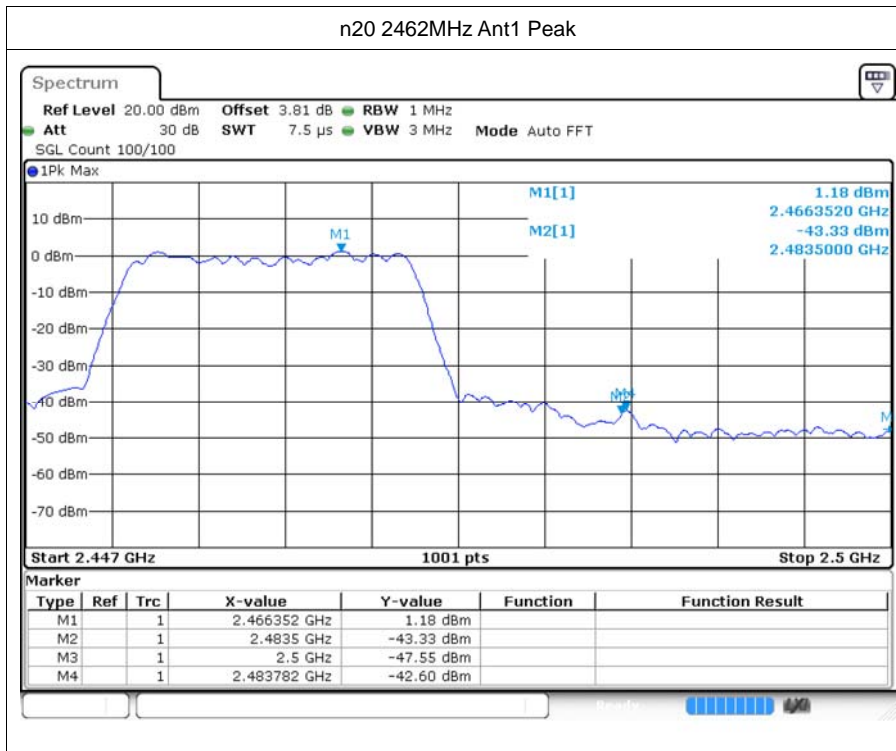


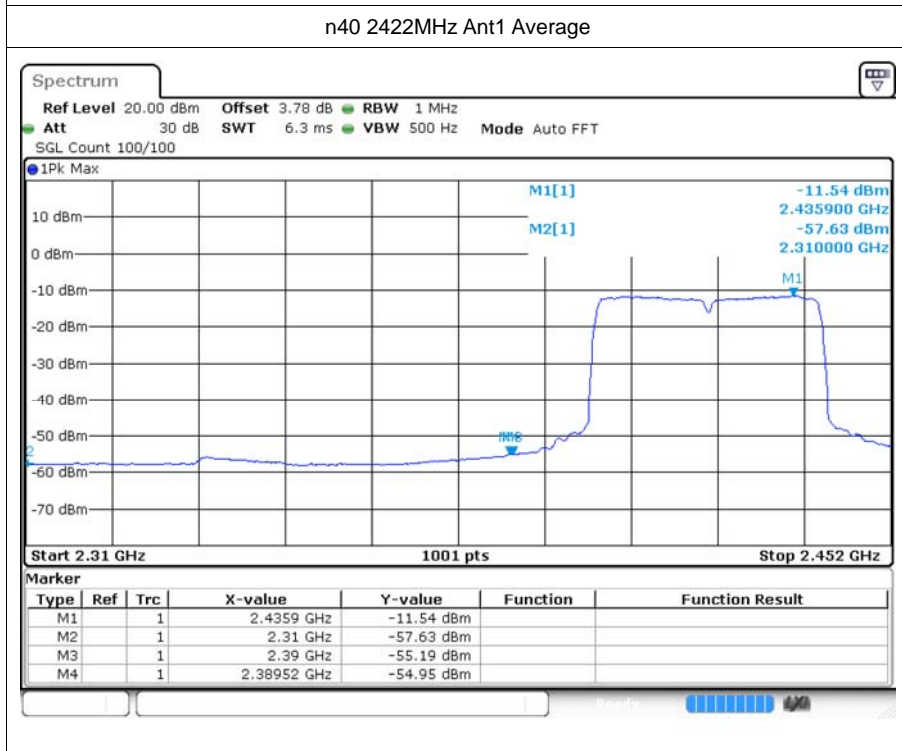
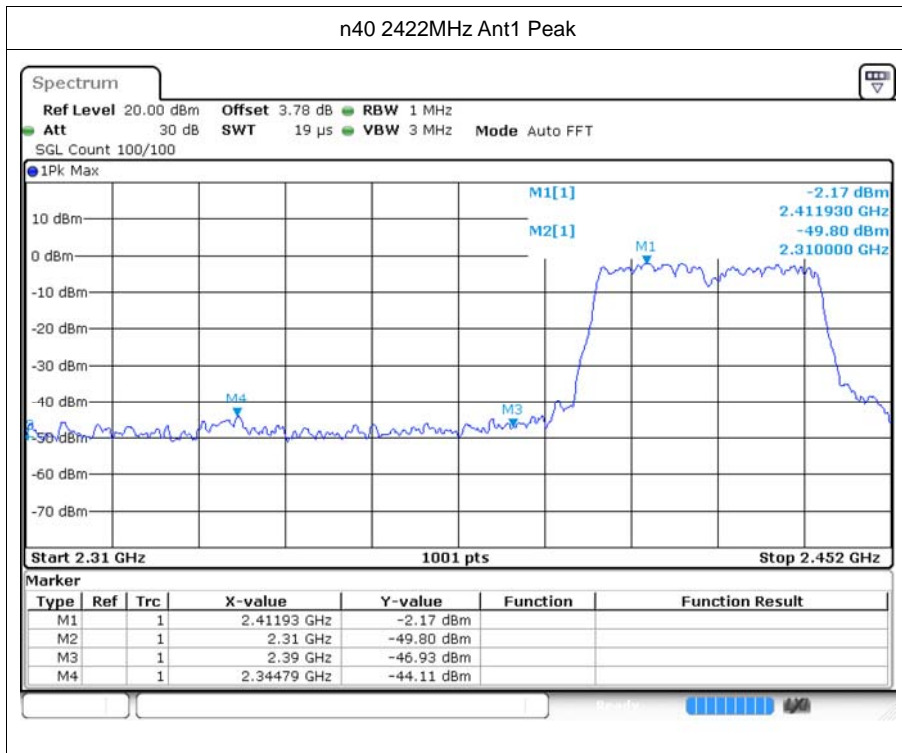




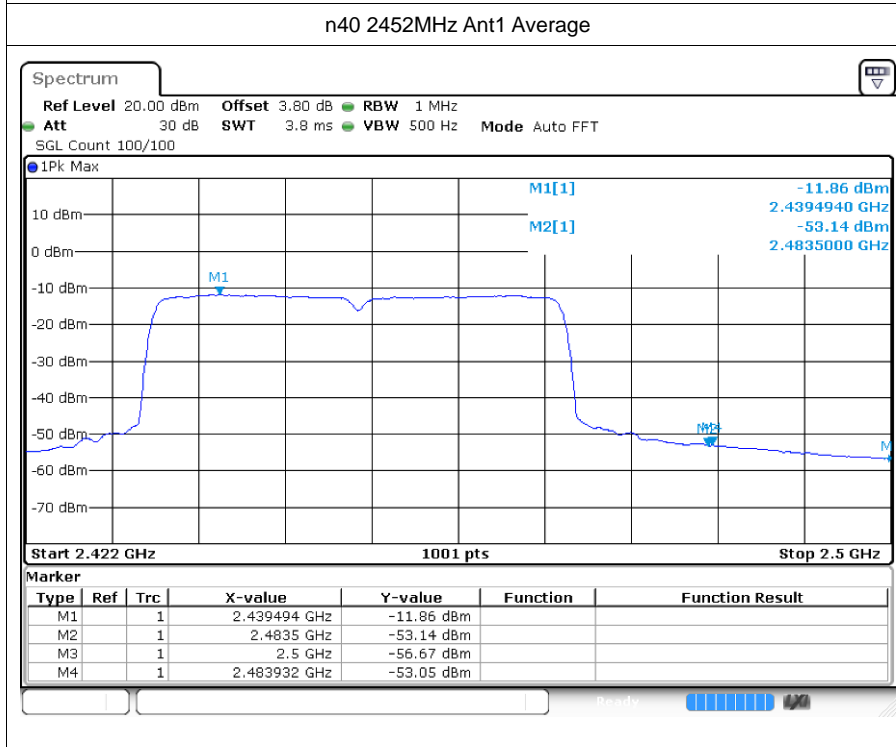
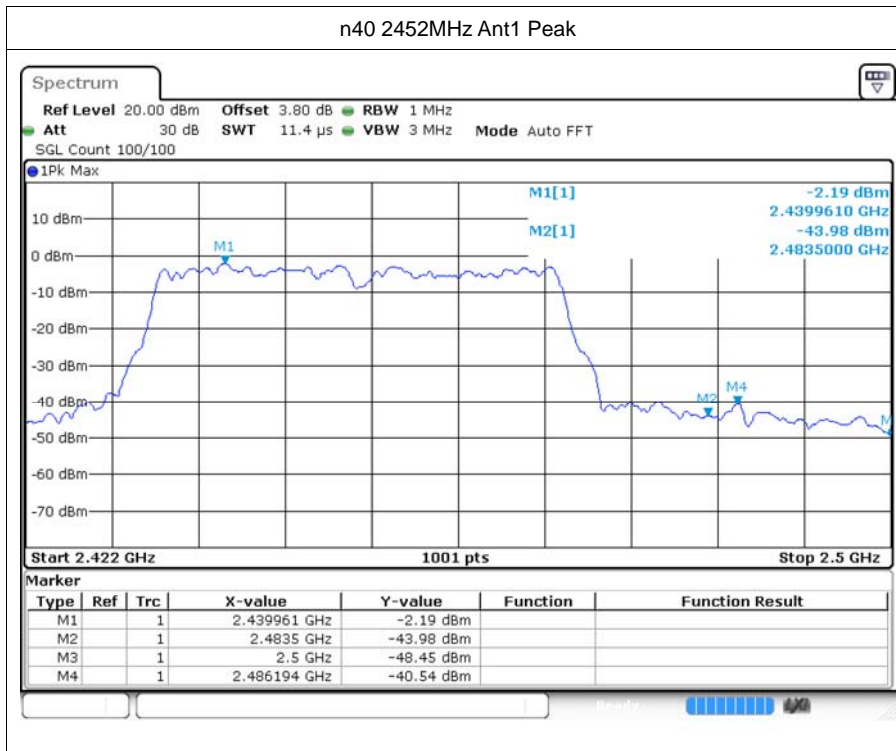












---The End---