



Appendix B

RF Test Data for BT (BLE) (Conducted Measurement)

Product Name: Notebook PC

Trade Mark: Emdoor

Test Model: NP14IC-X(IC918)

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



Contents

	Page
COVER PAGE	
1 Duty Cycle	3
1.1 Test Result.....	3
1.2 Test Graphs	4
2 Maximum Conducted Output Power	7
2.1 Test Result.....	7
2.2 Test Graphs	8
3 -6dB Bandwidth	11
3.1 Test Result.....	11
3.2 Test Graphs	12
4 Maximum Power Spectral Density Level	15
4.1 Test Result.....	15
4.2 Test Graphs	16
5 Band Edge.....	19
5.1 Test Result.....	19
5.2 Test Graphs	20
6 Conducted RF Spurious Emission.....	24
6.1 Test Result.....	24
6.2 Test Graphs	25
7 Restrict Band	31
7.1 Test Result.....	31

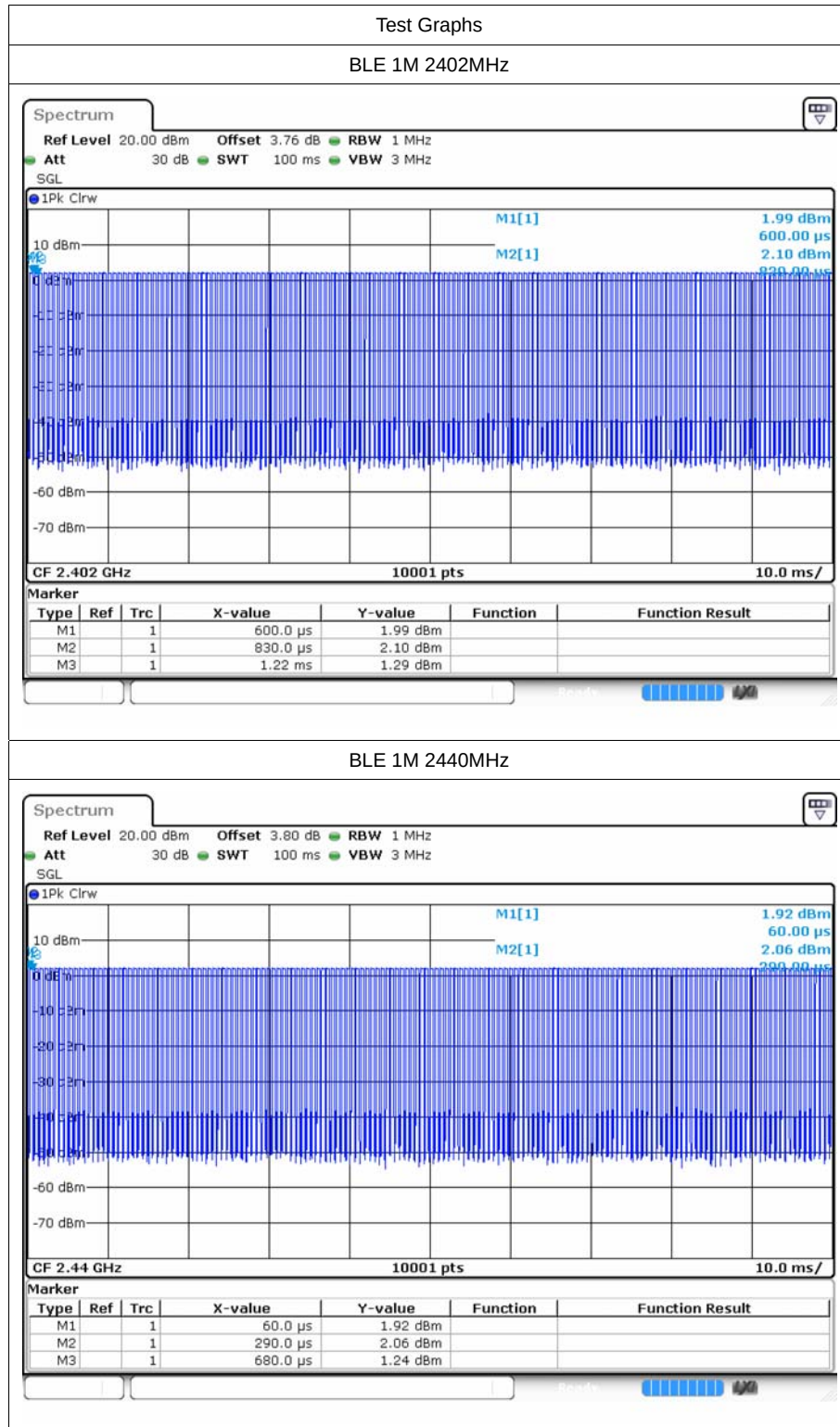


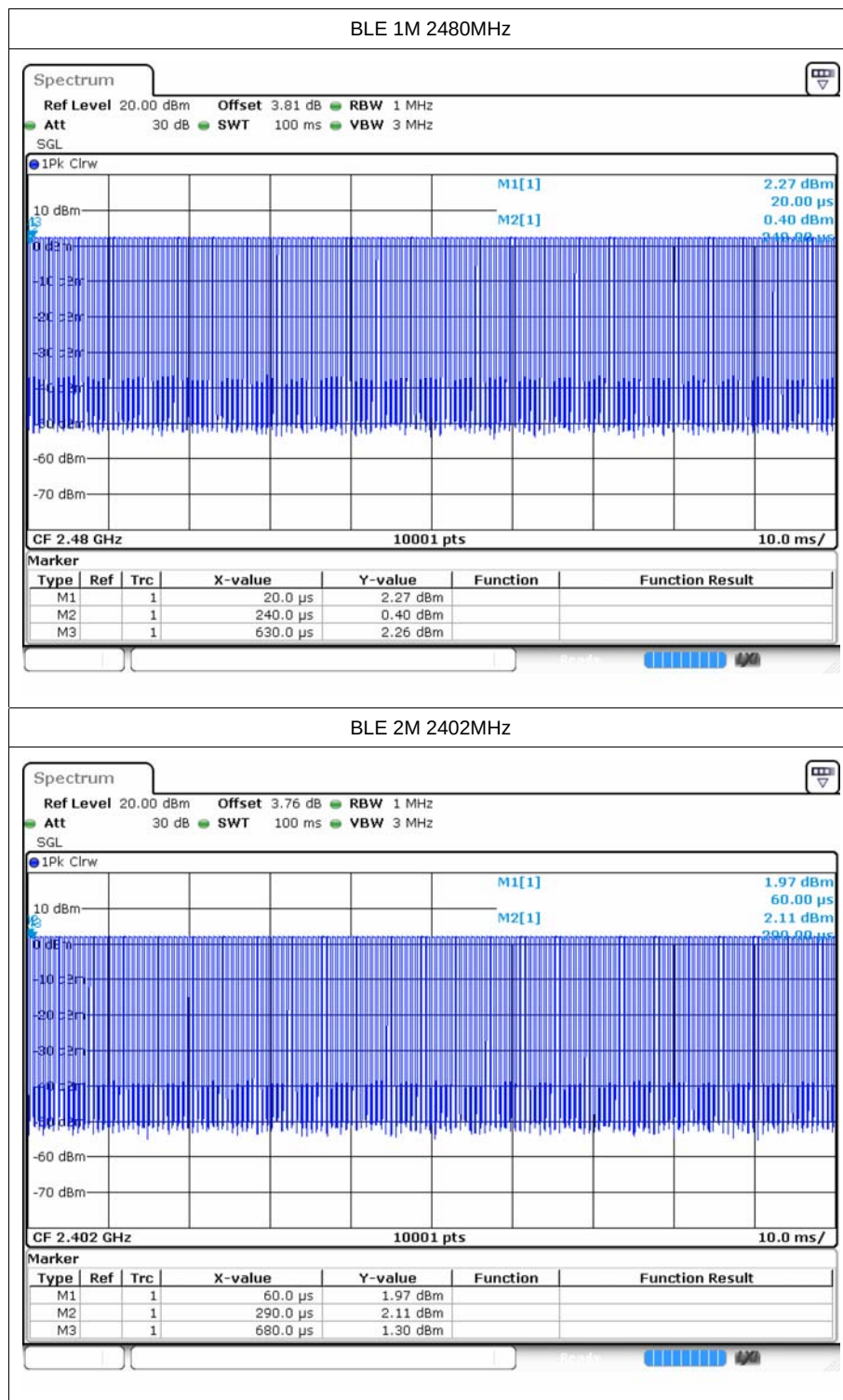
1 Duty Cycle

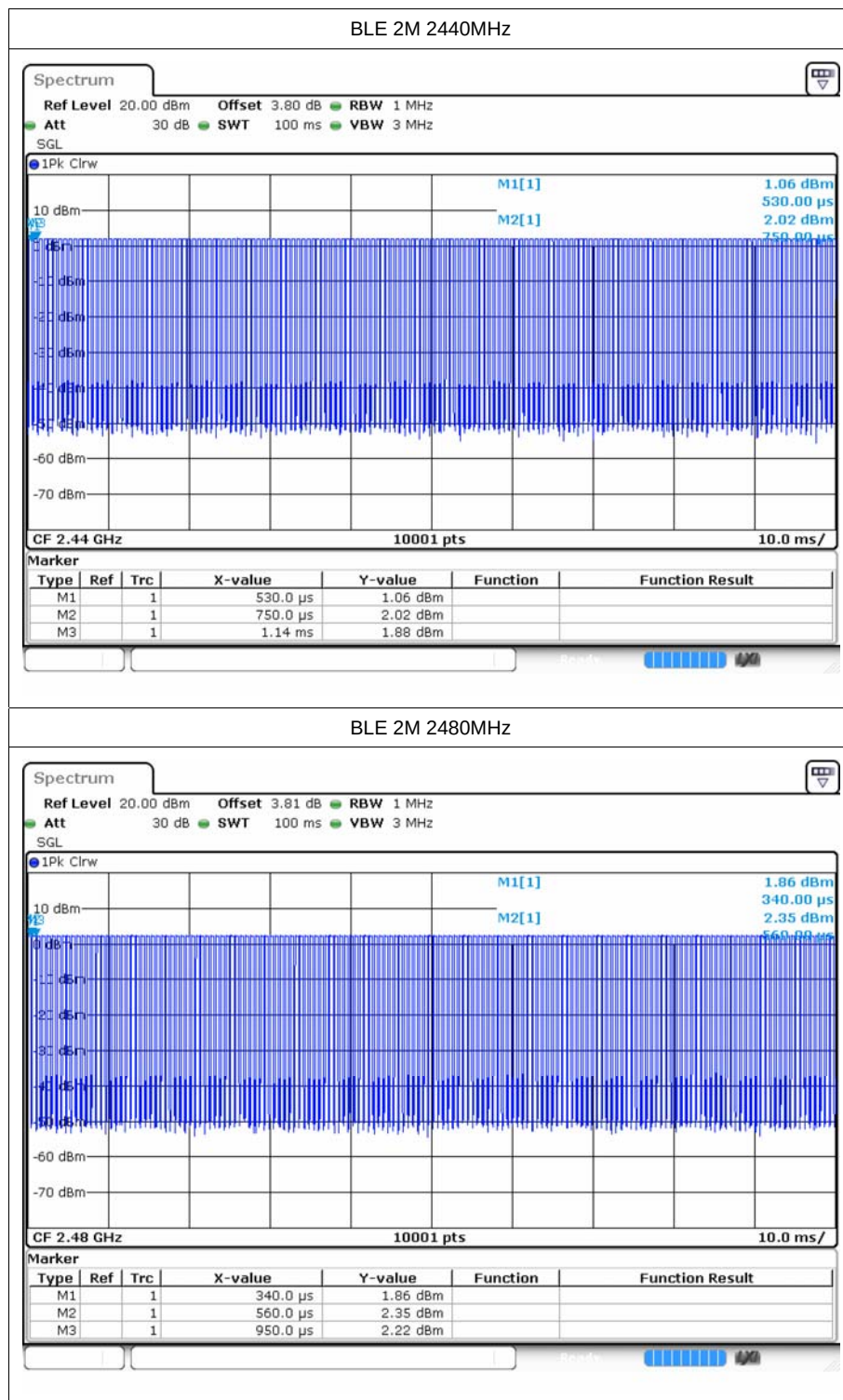
1.1 Test Result

Mode	Frequency (MHz)	Duty Cycle (%)	1/T (kHz)
BLE 1M	2402	65.34	2.56
BLE 1M	2440	65.11	2.56
BLE 1M	2480	65.26	2.56
BLE 2M	2402	65.28	2.56
BLE 2M	2440	65.29	2.56
BLE 2M	2480	65.37	2.56

1.2 Test Graphs







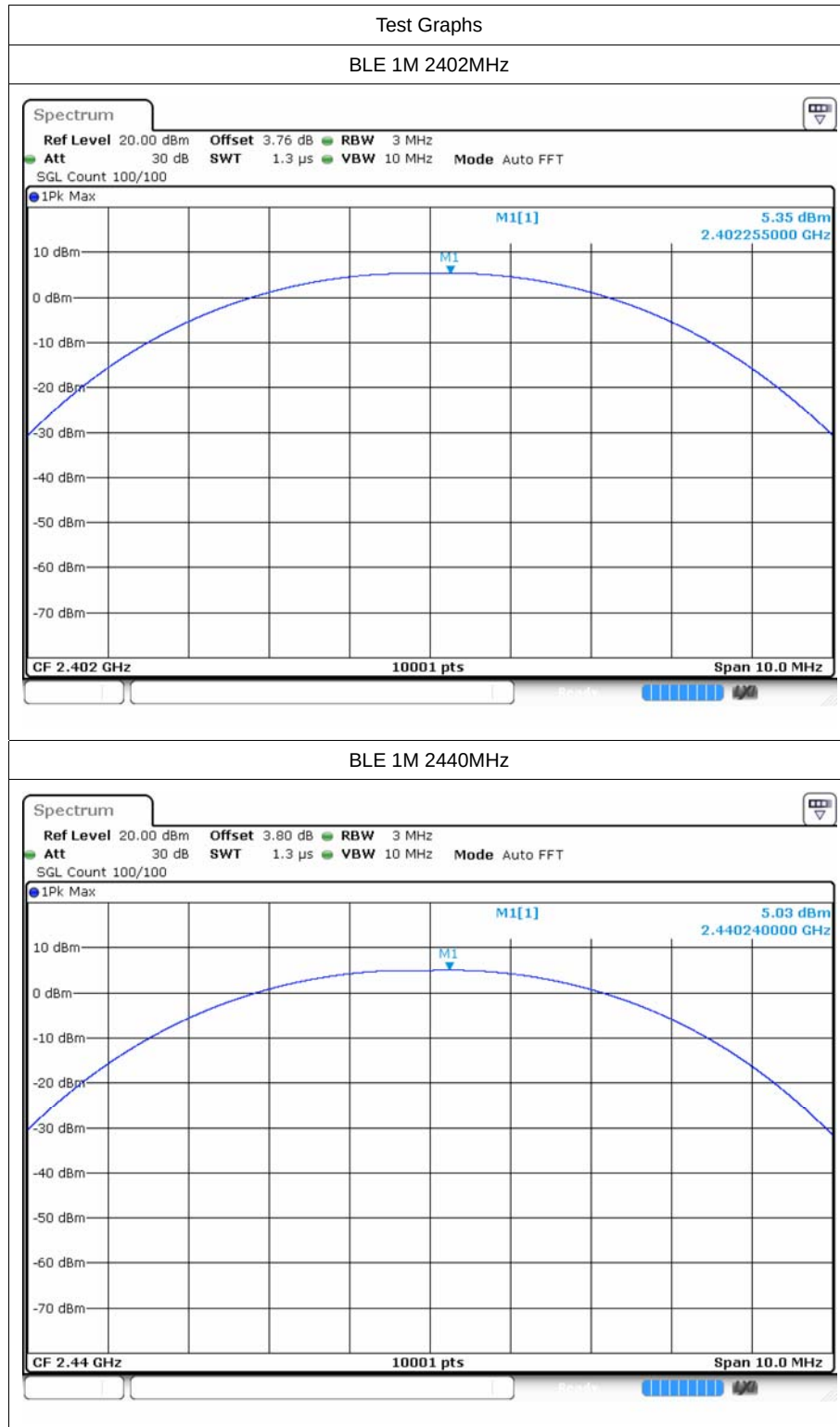


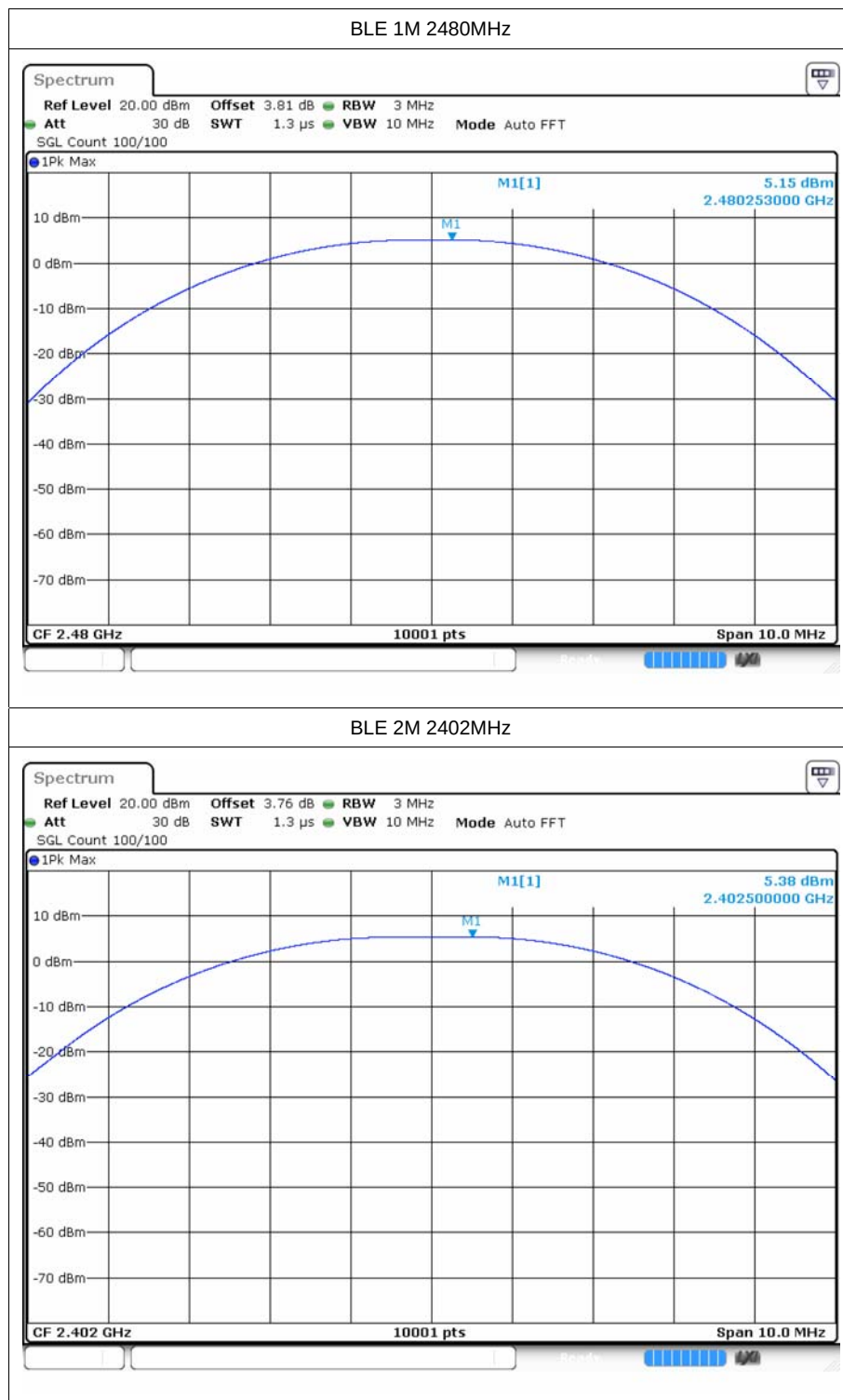
2 Maximum Conducted Output Power

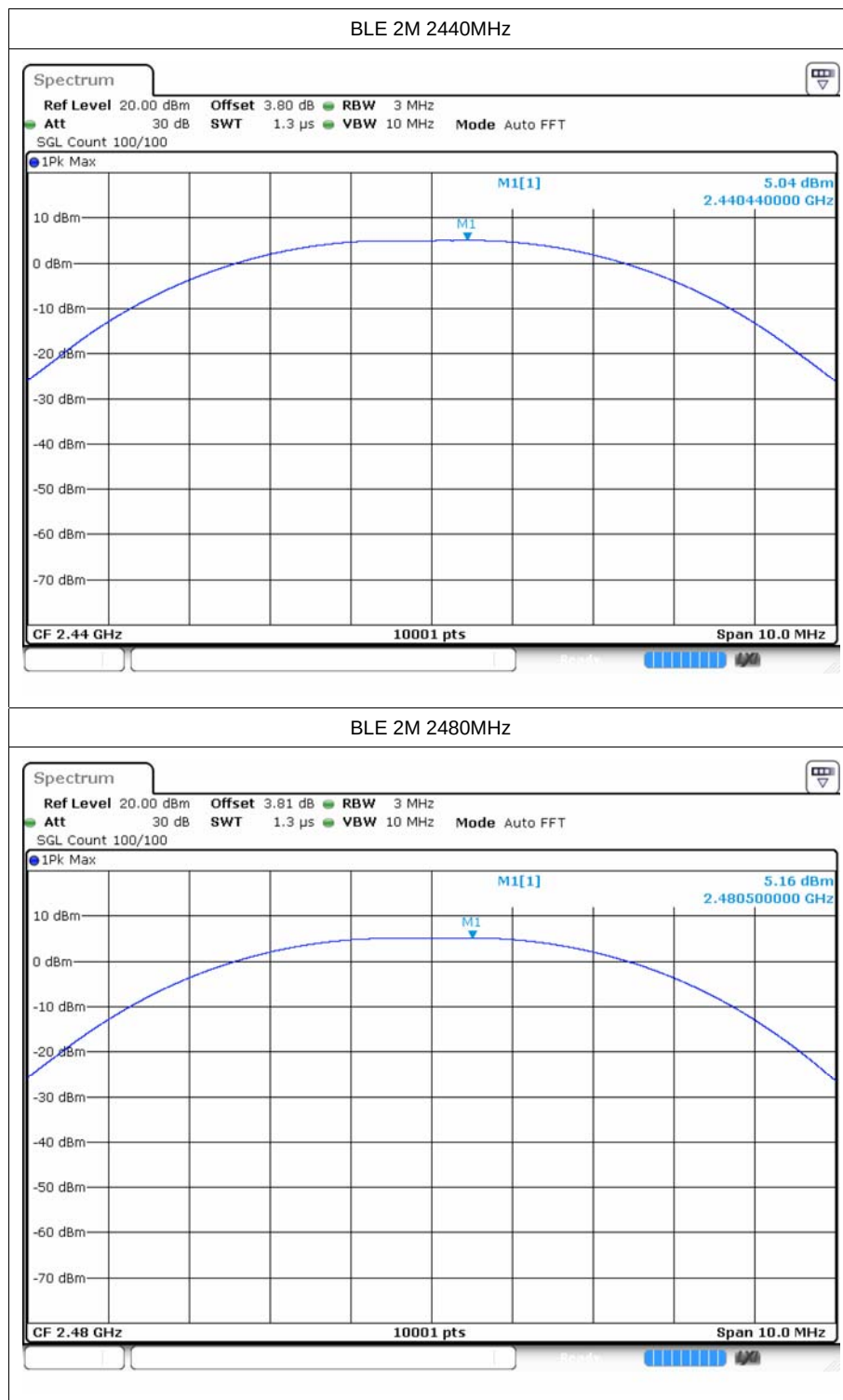
2.1 Test Result

Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	5.35	30	Pass
BLE 1M	2440	5.03	30	Pass
BLE 1M	2480	5.15	30	Pass
BLE 2M	2402	5.38	30	Pass
BLE 2M	2440	5.04	30	Pass
BLE 2M	2480	5.16	30	Pass

2.2 Test Graphs







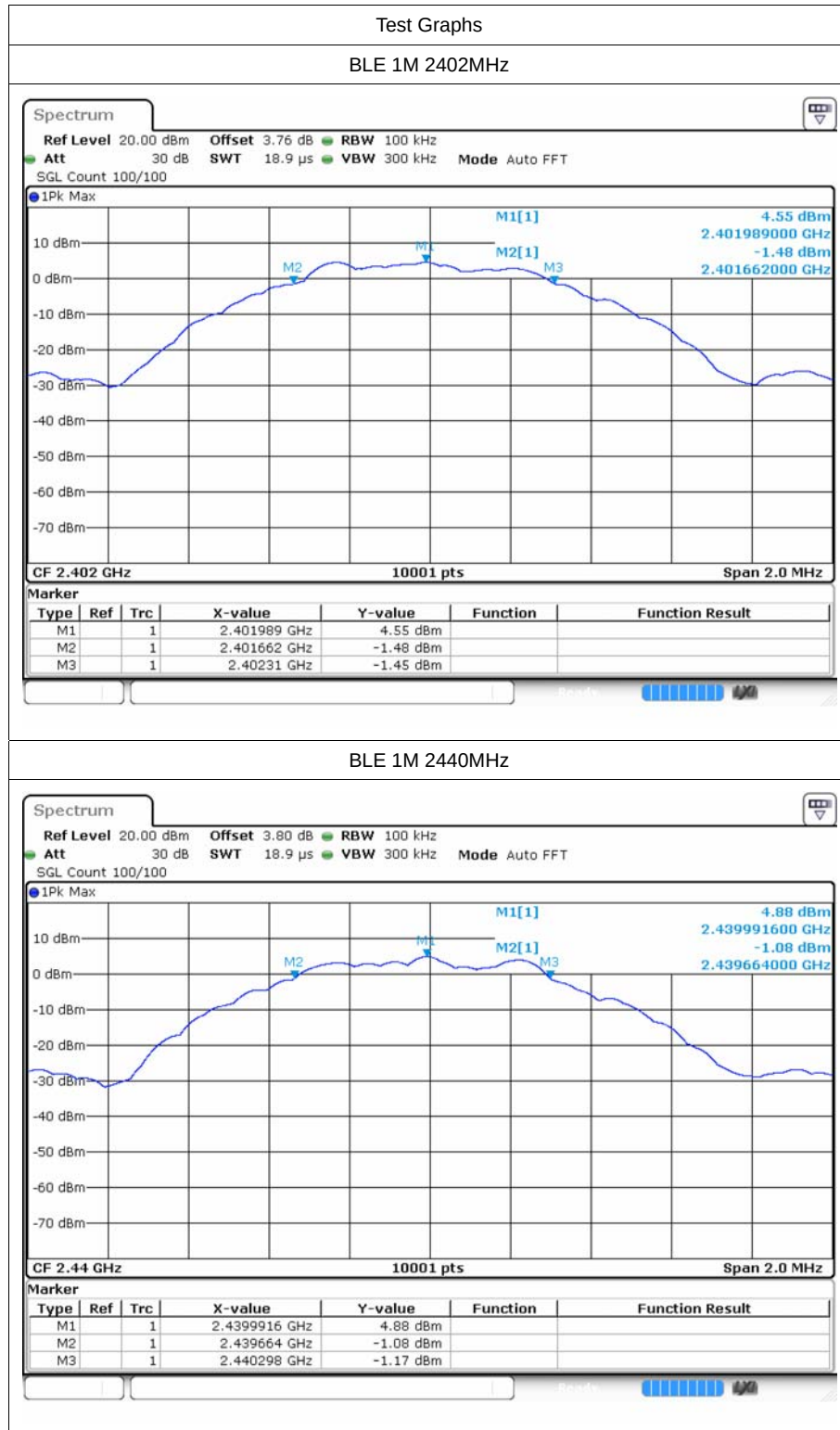


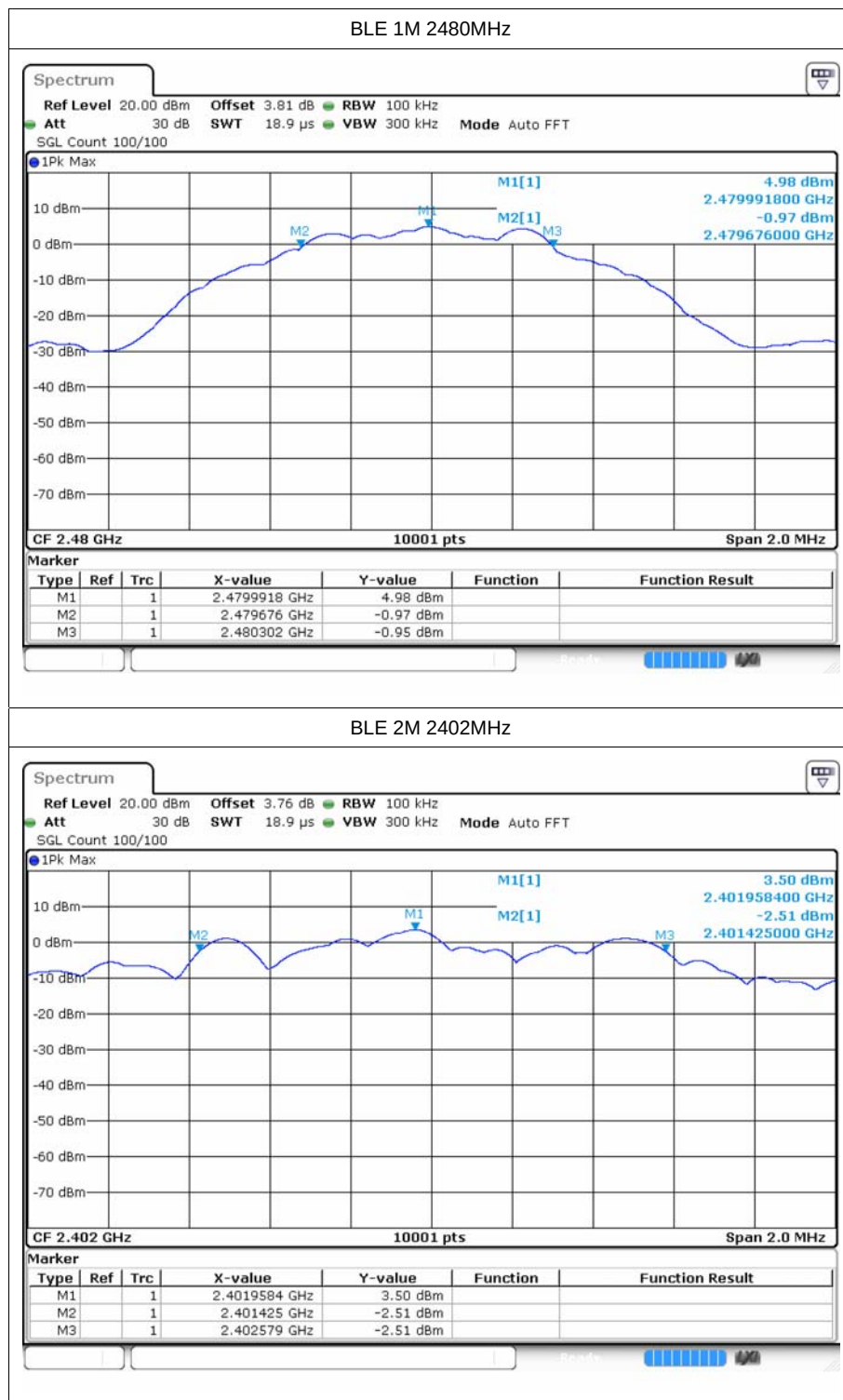
3 -6dB Bandwidth

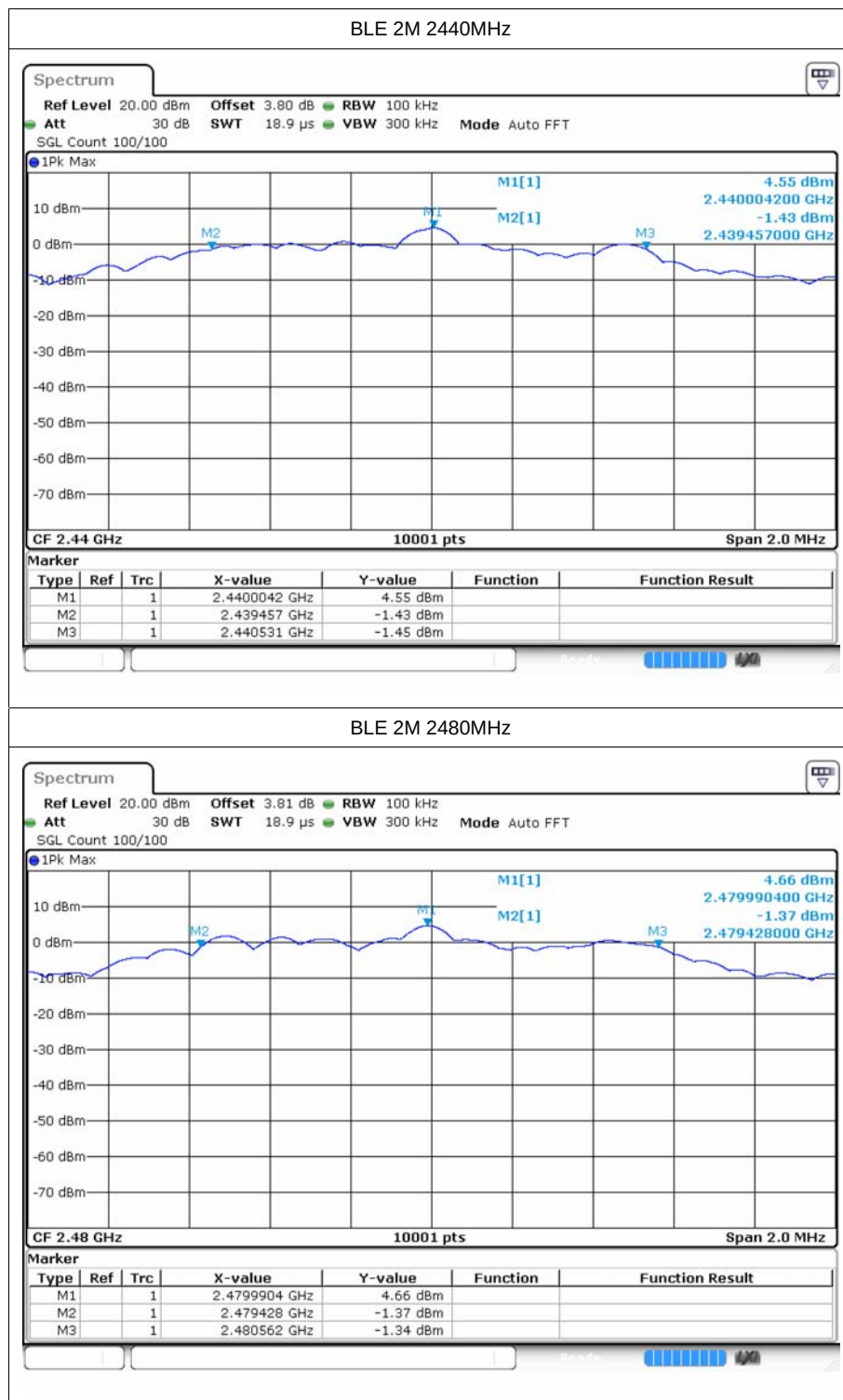
3.1 Test Result

Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
BLE 1M	2402	0.648	0.5	Pass
BLE 1M	2440	0.634	0.5	Pass
BLE 1M	2480	0.627	0.5	Pass
BLE 2M	2402	1.154	0.5	Pass
BLE 2M	2440	1.074	0.5	Pass
BLE 2M	2480	1.134	0.5	Pass

3.2 Test Graphs







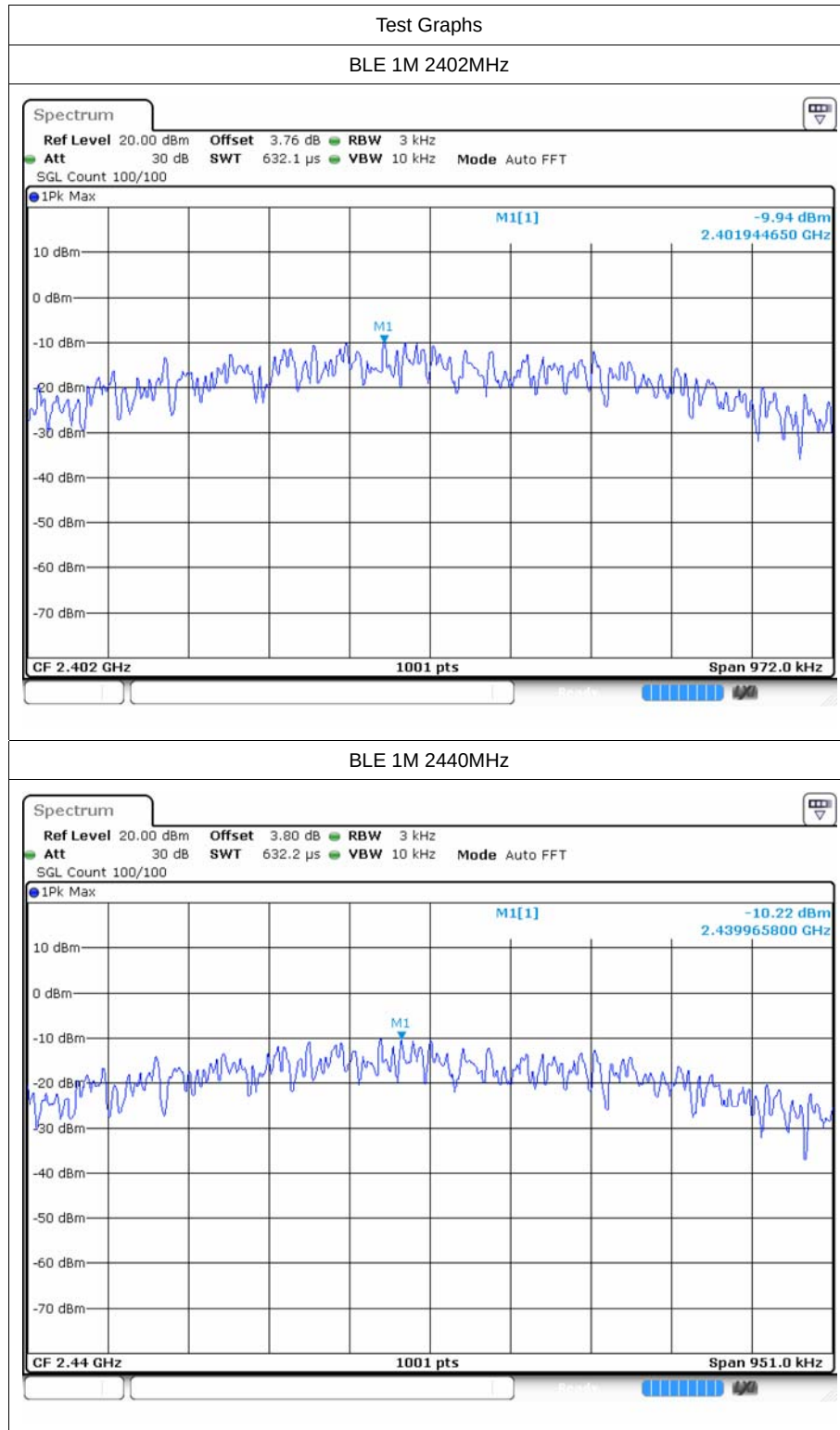


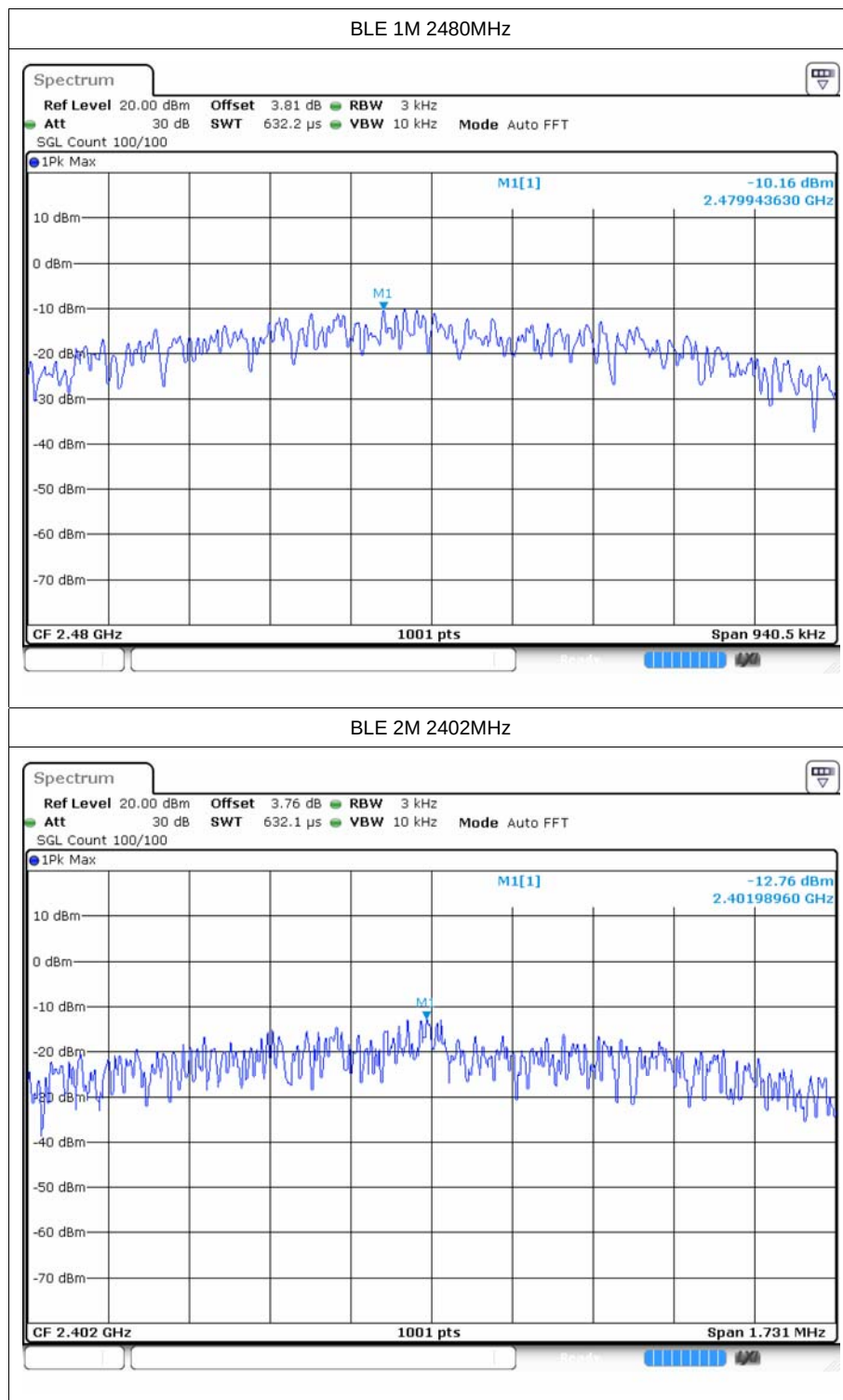
4 Maximum Power Spectral Density Level

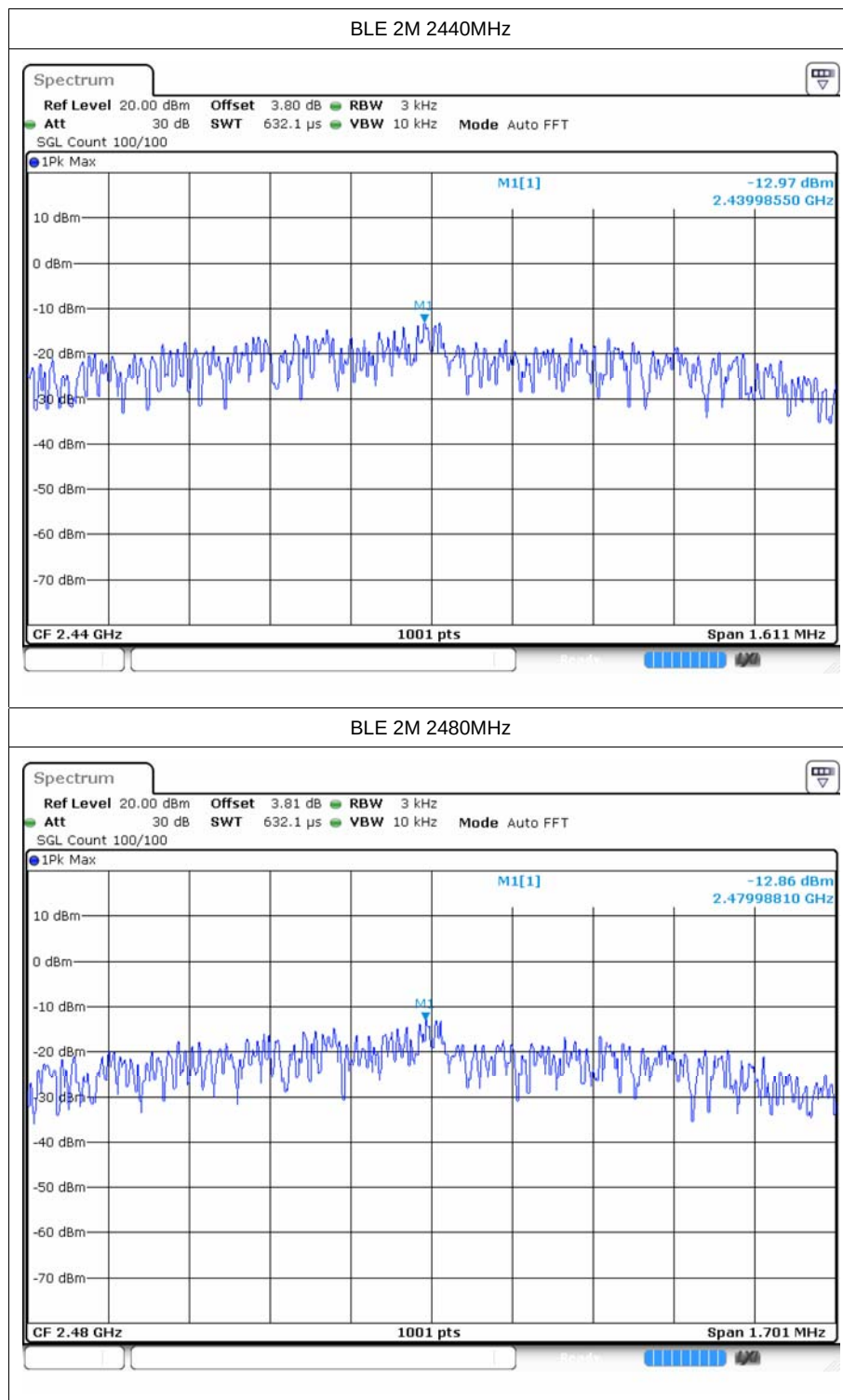
4.1 Test Result

Mode	Frequency (MHz)	Conducted PSD (dBm)	Limit (dBm)	Verdict
BLE 1M	2402	-9.94	8	Pass
BLE 1M	2440	-10.22	8	Pass
BLE 1M	2480	-10.16	8	Pass
BLE 2M	2402	-12.76	8	Pass
BLE 2M	2440	-12.97	8	Pass
BLE 2M	2480	-12.86	8	Pass

4.2 Test Graphs





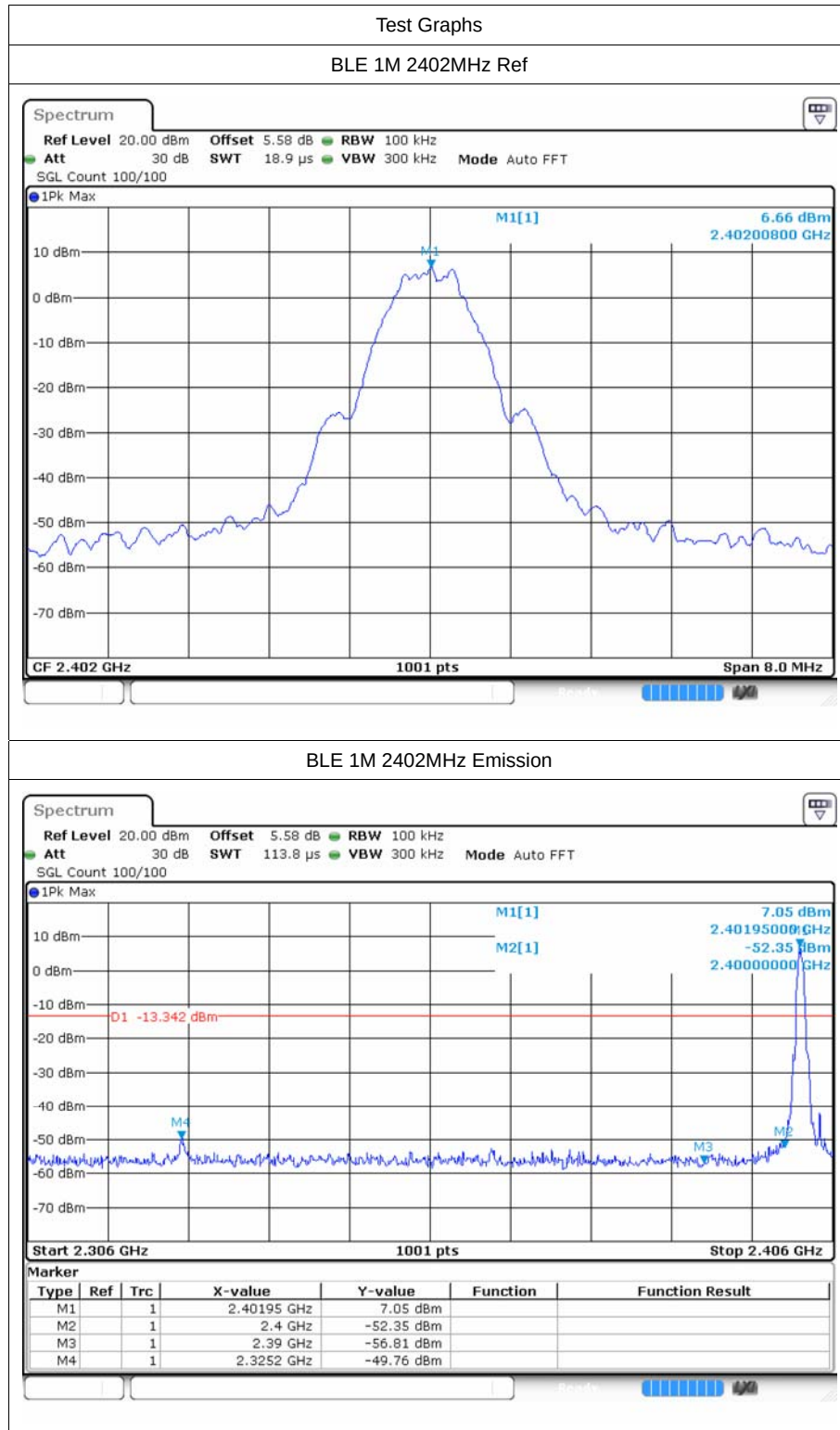


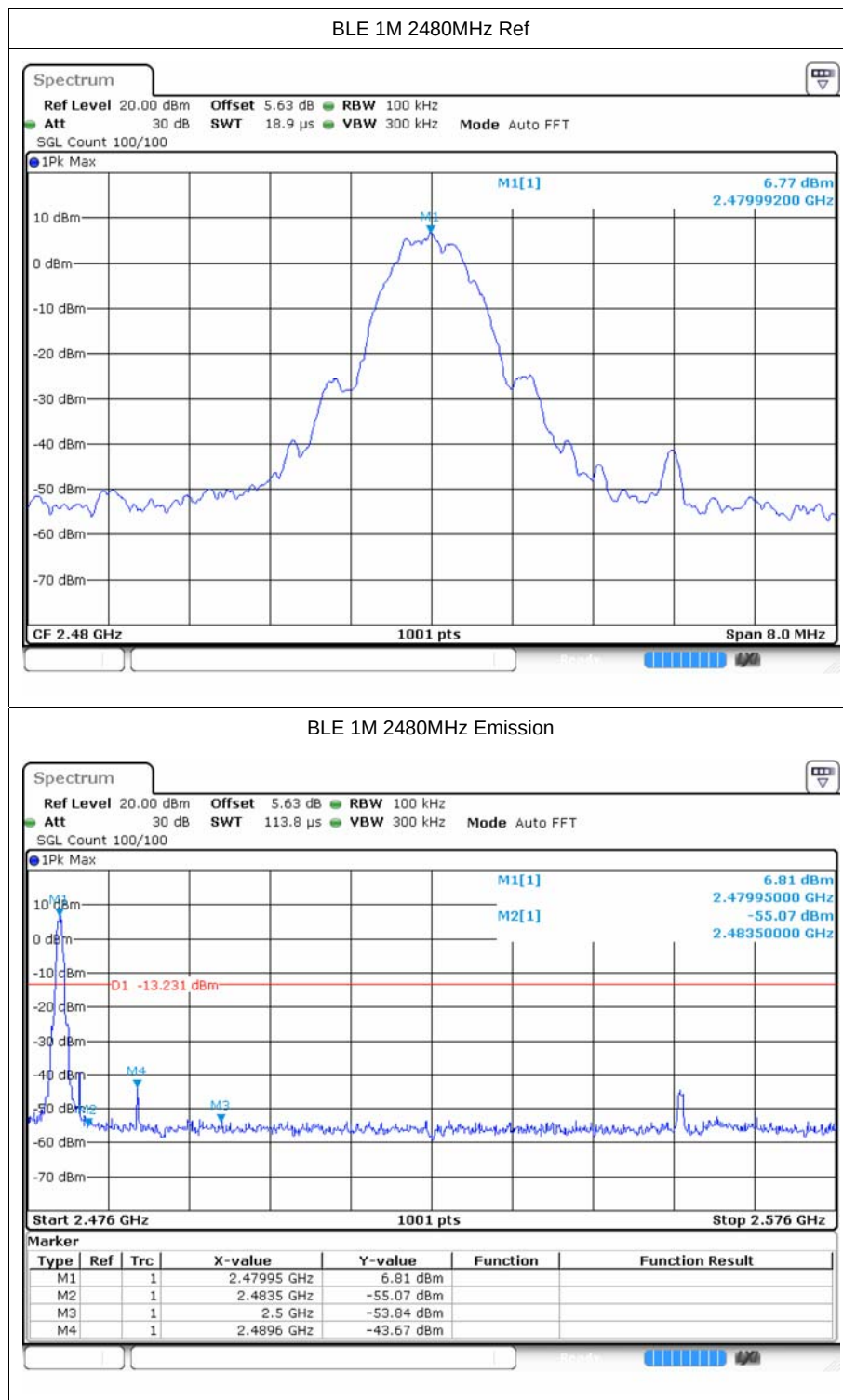
5 Band Edge

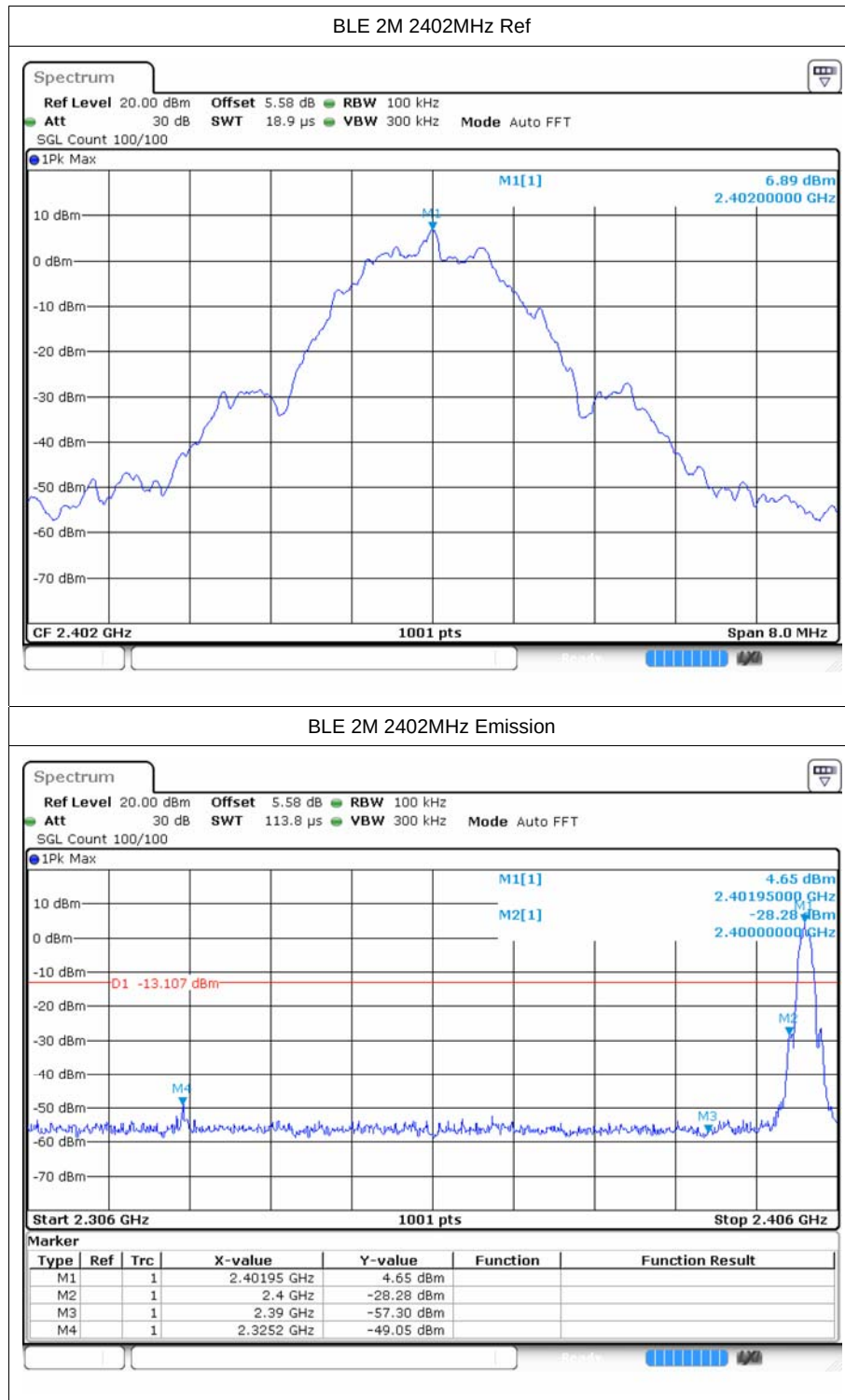
5.1 Test Result

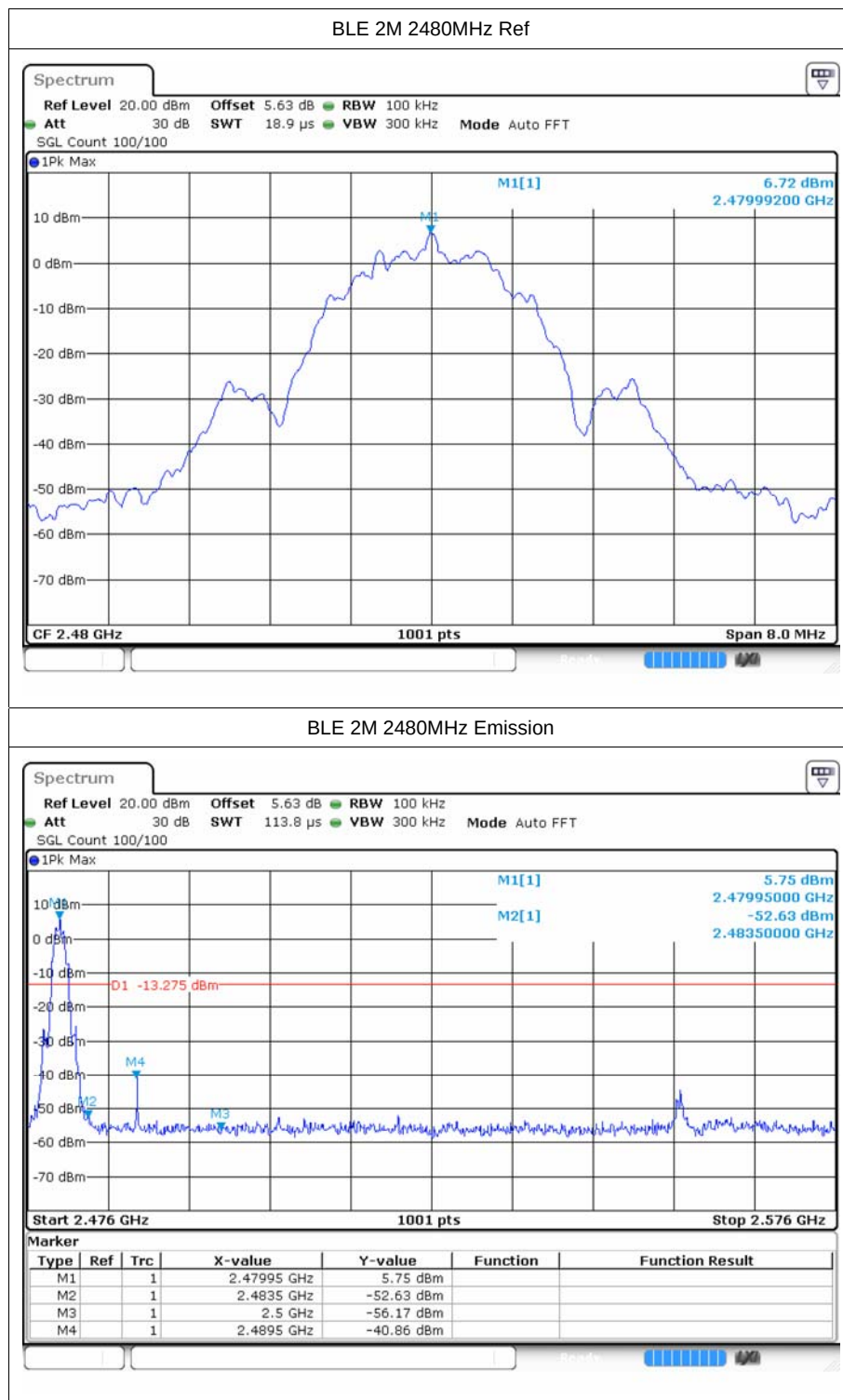
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-56.41	-20	Pass
BLE 1M	2480	-50.43	-20	Pass
BLE 2M	2402	-55.94	-20	Pass
BLE 2M	2480	-47.58	-20	Pass

5.2 Test Graphs









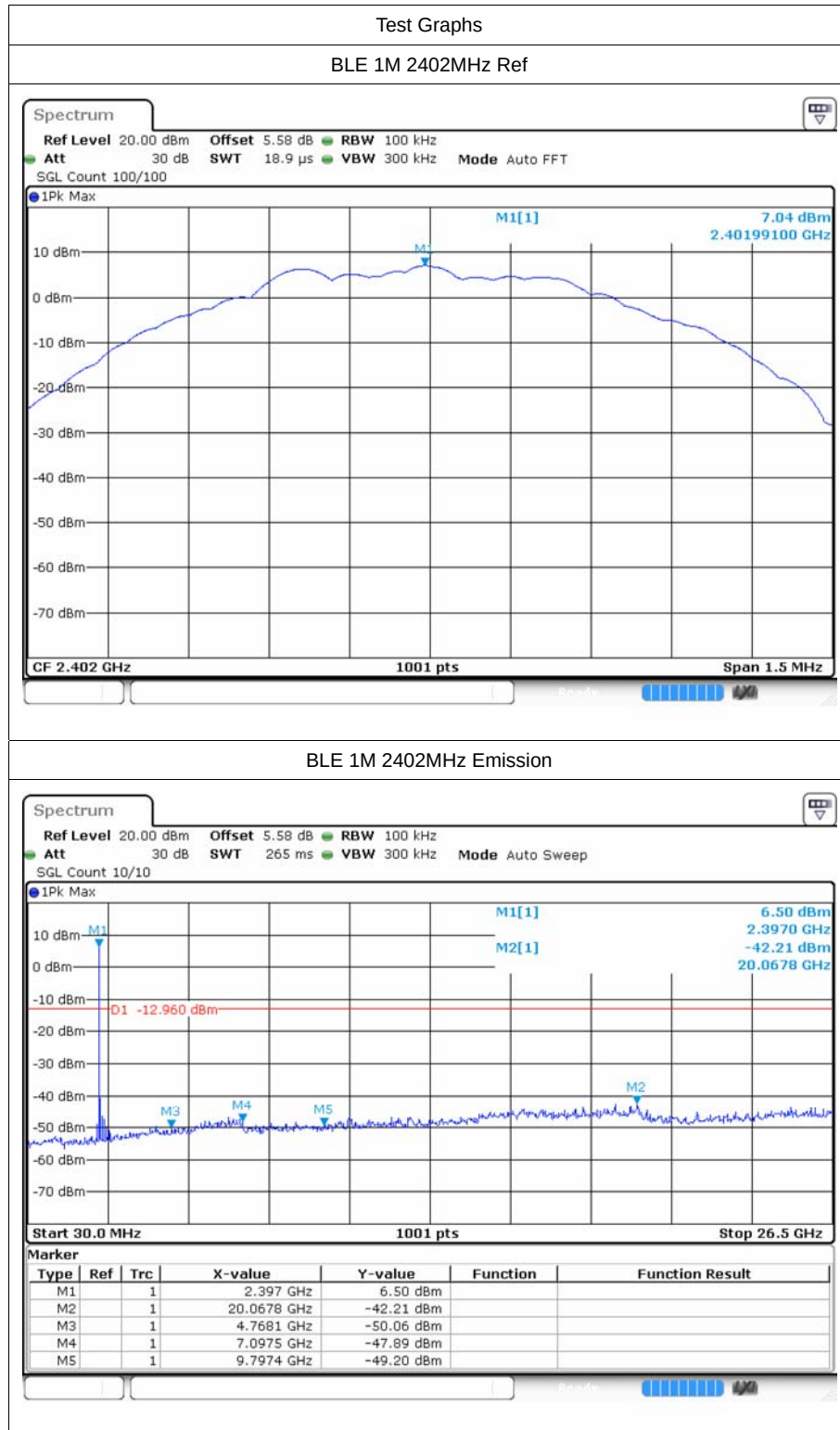


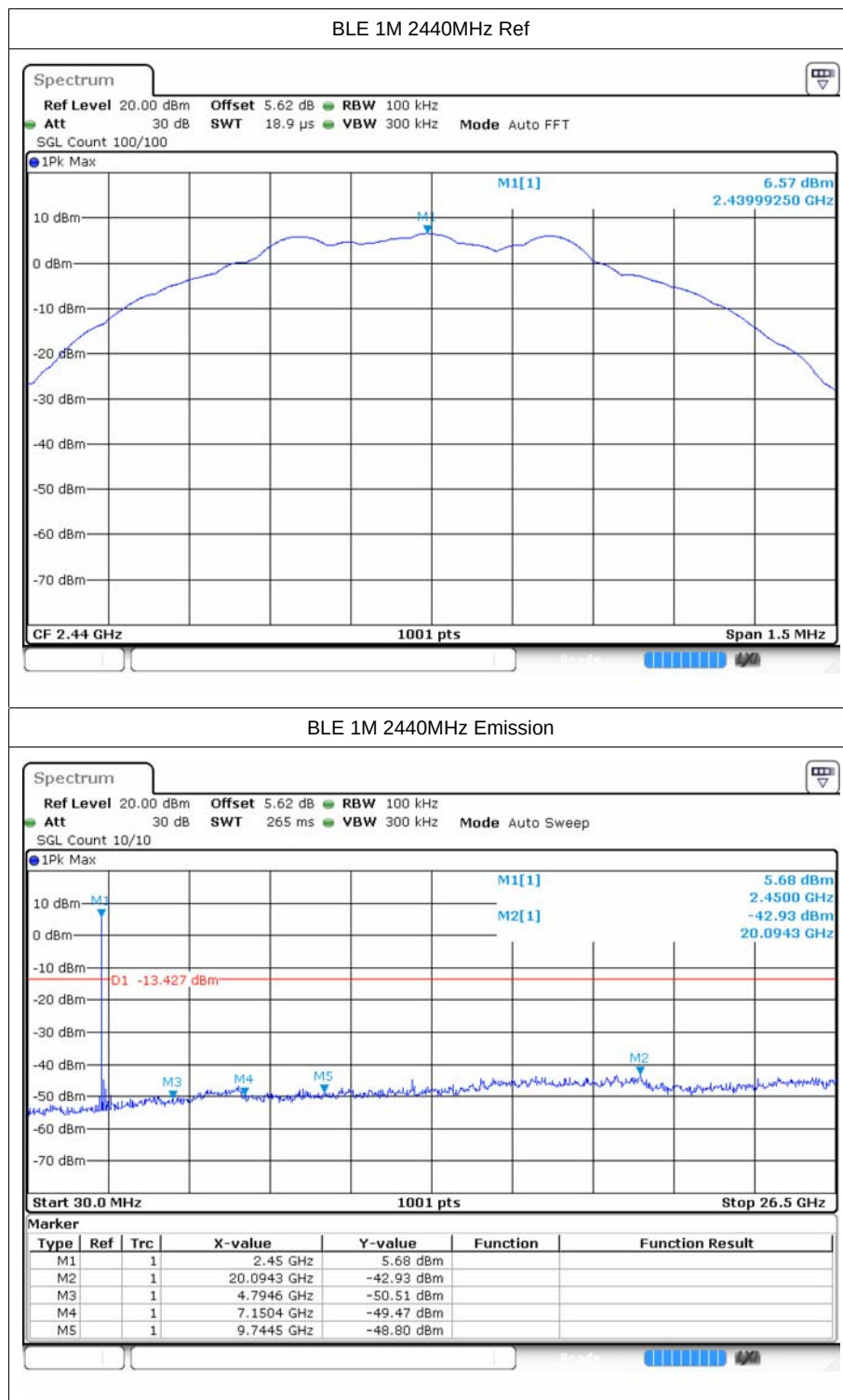
6 Conducted RF Spurious Emission

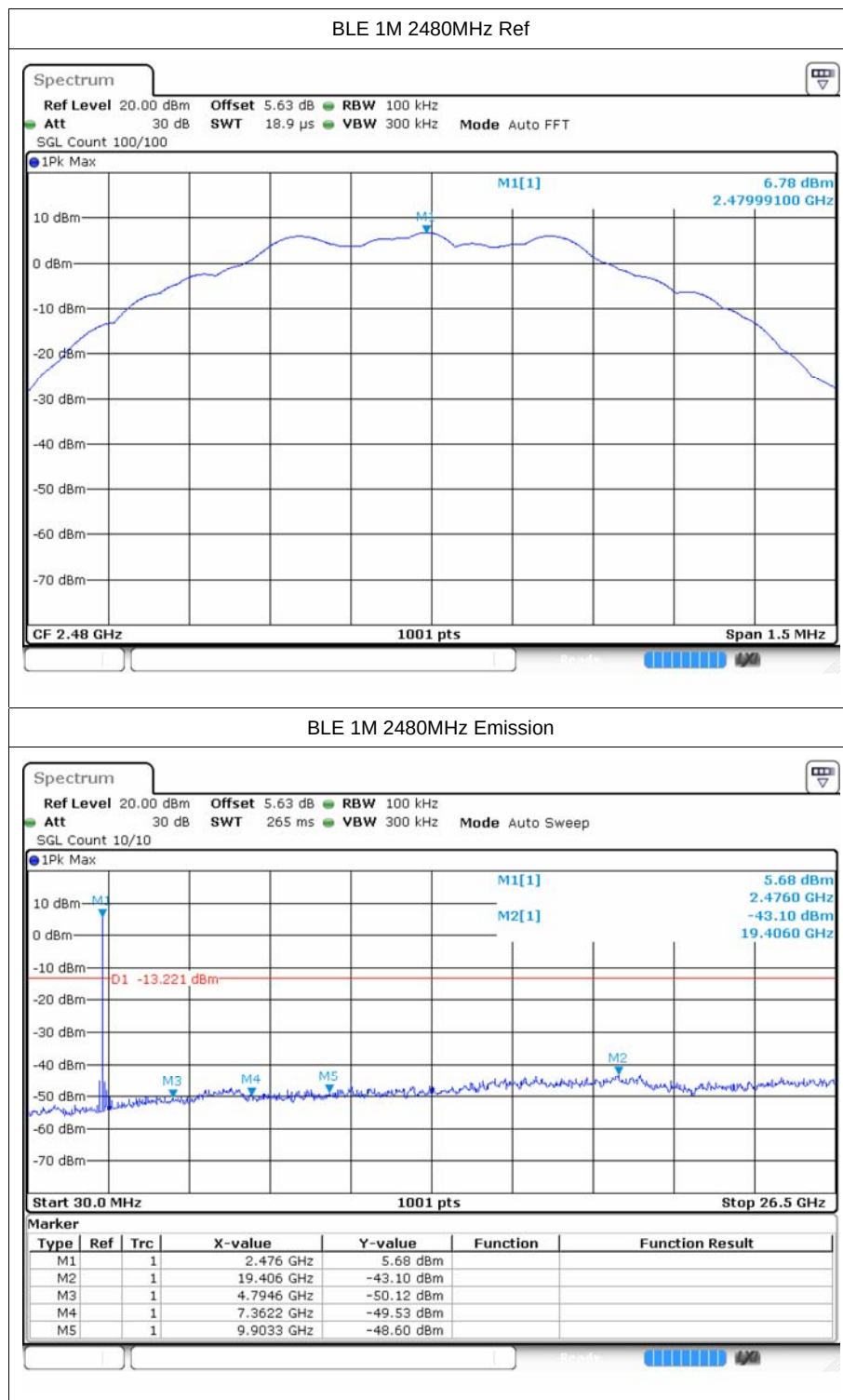
6.1 Test Result

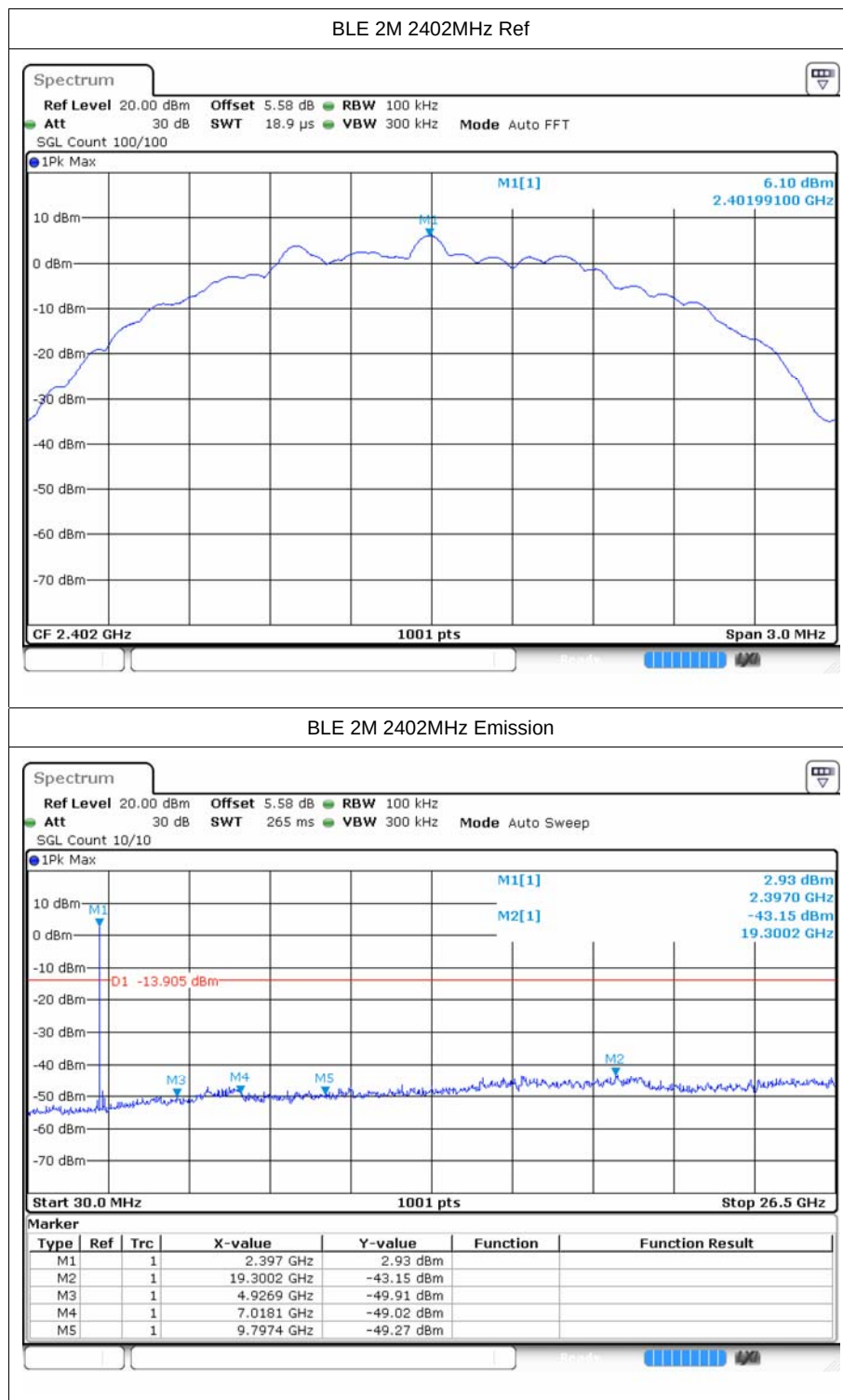
Mode	Frequency (MHz)	Max Value (dBc)	Limit (dBc)	Verdict
BLE 1M	2402	-49.25	-20	Pass
BLE 1M	2440	-49.5	-20	Pass
BLE 1M	2480	-49.88	-20	Pass
BLE 2M	2402	-49.25	-20	Pass
BLE 2M	2440	-46.44	-20	Pass
BLE 2M	2480	-48.02	-20	Pass

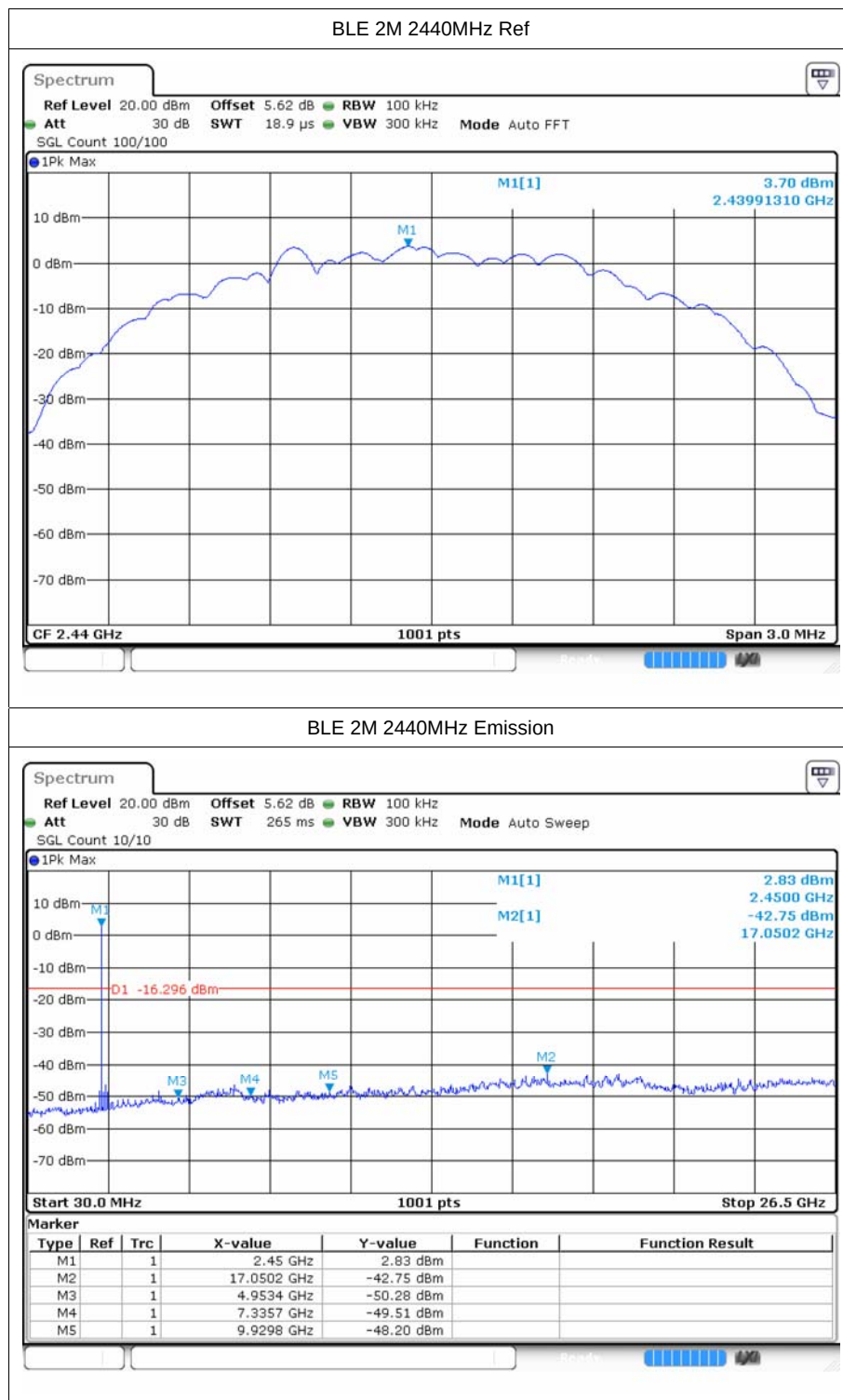
6.2 Test Graphs

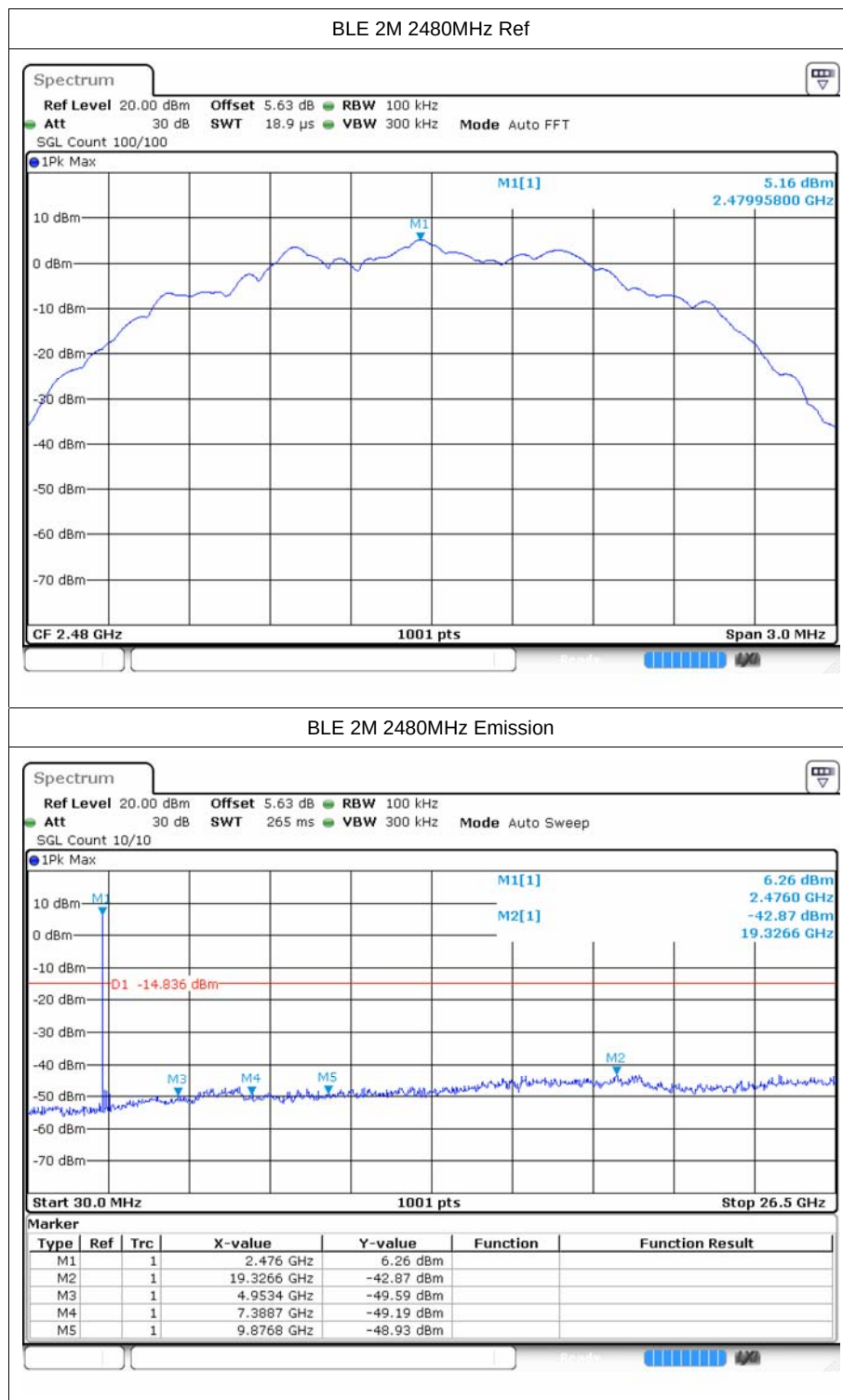














7 Restrict Band

7.1 Test Result

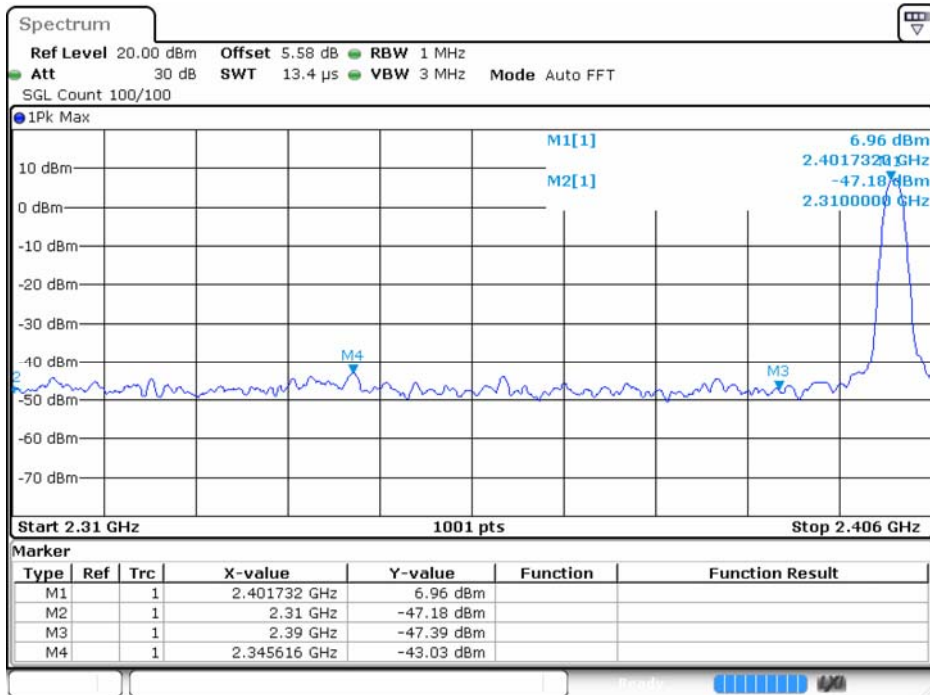
Condition	Mode	Frequency (MHz)	Antenna	Spur Freq (MHz)	Power (dBm)	Gain (dBi)	E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	BLE 1M	2402	Ant1	2310	-47.18	2	50.08	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2310	-55.46	2	41.8	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2345.616	-43.02	2	54.24	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2342.064	-51.58	2	45.68	Average	54	Pass
NVNT	BLE 1M	2402	Ant1	2390	-47.39	2	49.87	Peak	74	Pass
NVNT	BLE 1M	2402	Ant1	2390	-55.5	2	41.76	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-43.53	2	53.73	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.5	-51.93	2	45.33	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2487.424	-35.02	2	62.24	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2483.512	-51.93	2	45.33	Average	54	Pass
NVNT	BLE 1M	2480	Ant1	2500	-47.15	2	50.11	Peak	74	Pass
NVNT	BLE 1M	2480	Ant1	2500	-55.01	2	42.25	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2310	-46.5	2	50.76	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2310	-55.27	2	41.99	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2339.664	-43.31	2	53.95	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2342.16	-53	2	44.26	Average	54	Pass
NVNT	BLE 2M	2402	Ant1	2390	-47.12	2	50.14	Peak	74	Pass
NVNT	BLE 2M	2402	Ant1	2390	-55.62	2	41.64	Average	54	Pass



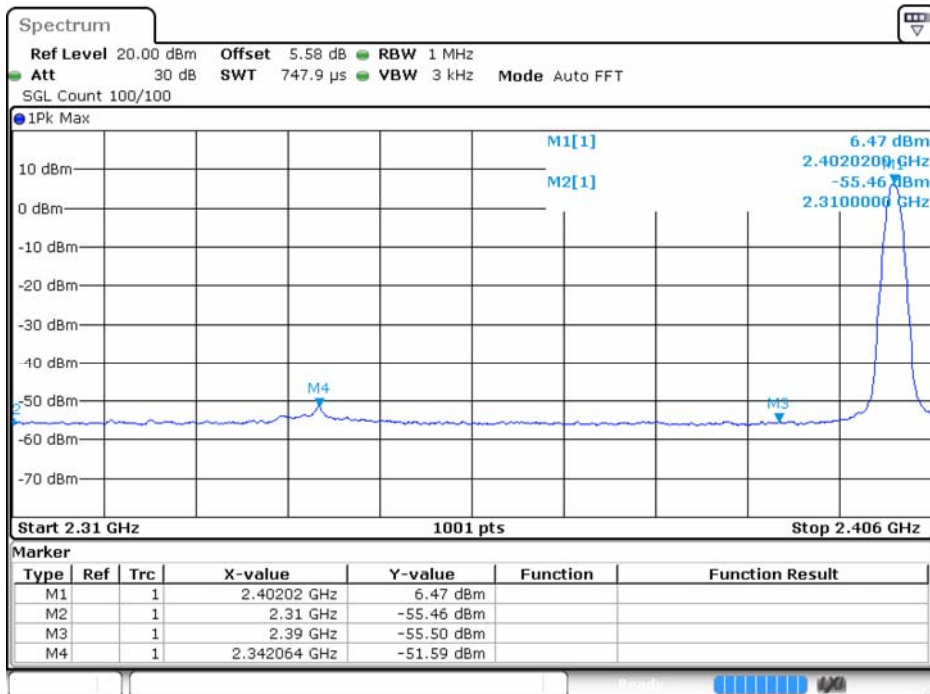
	2M									
NVNT	BLE 2M	2480	Ant1	2483.5	-40.28	2	56.98	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.5	-50.24	2	47.02	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2487.424	-34.24	2	63.02	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2483.512	-50.24	2	47.02	Average	54	Pass
NVNT	BLE 2M	2480	Ant1	2500	-47.53	2	49.73	Peak	74	Pass
NVNT	BLE 2M	2480	Ant1	2500	-56.05	2	41.21	Average	54	Pass

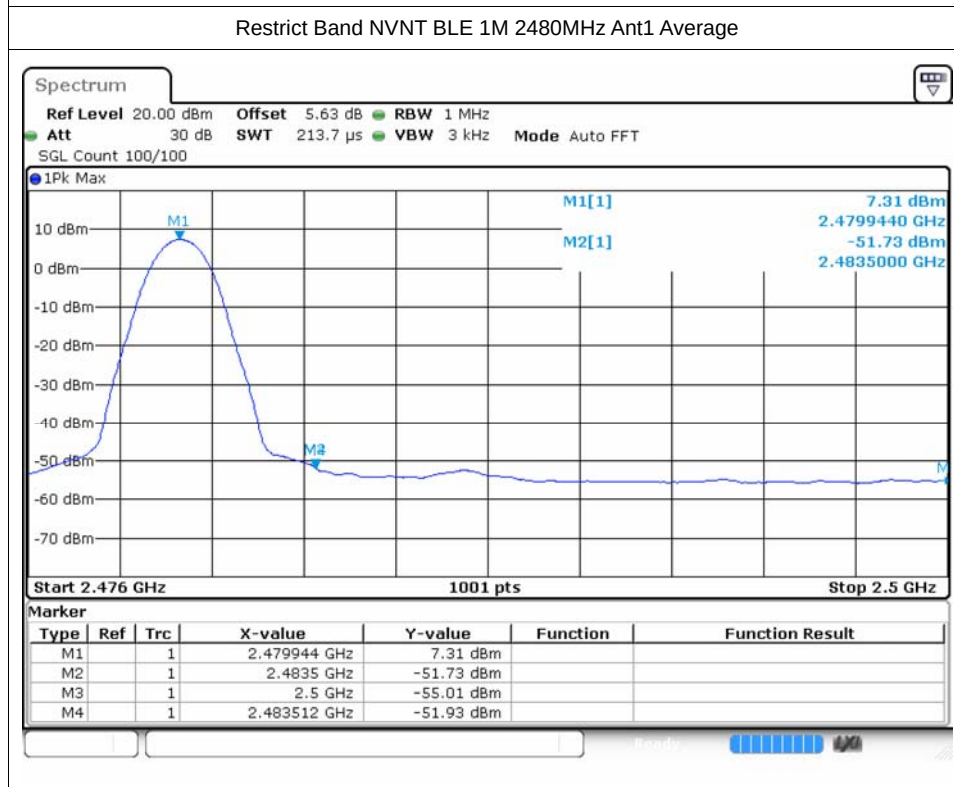
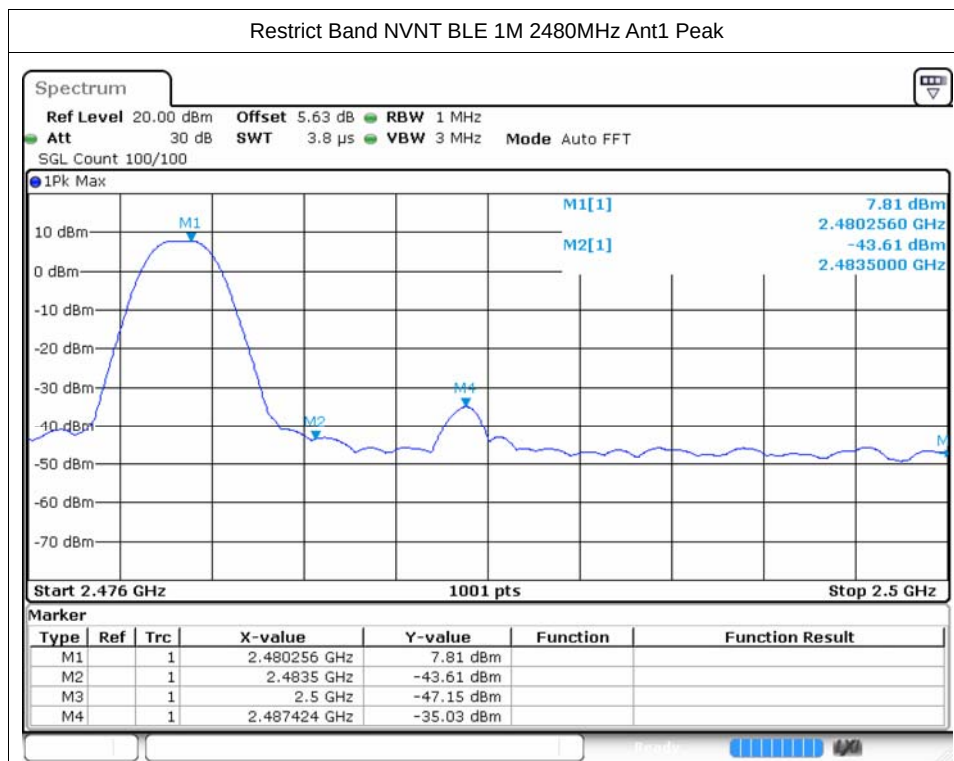
Test Graphs

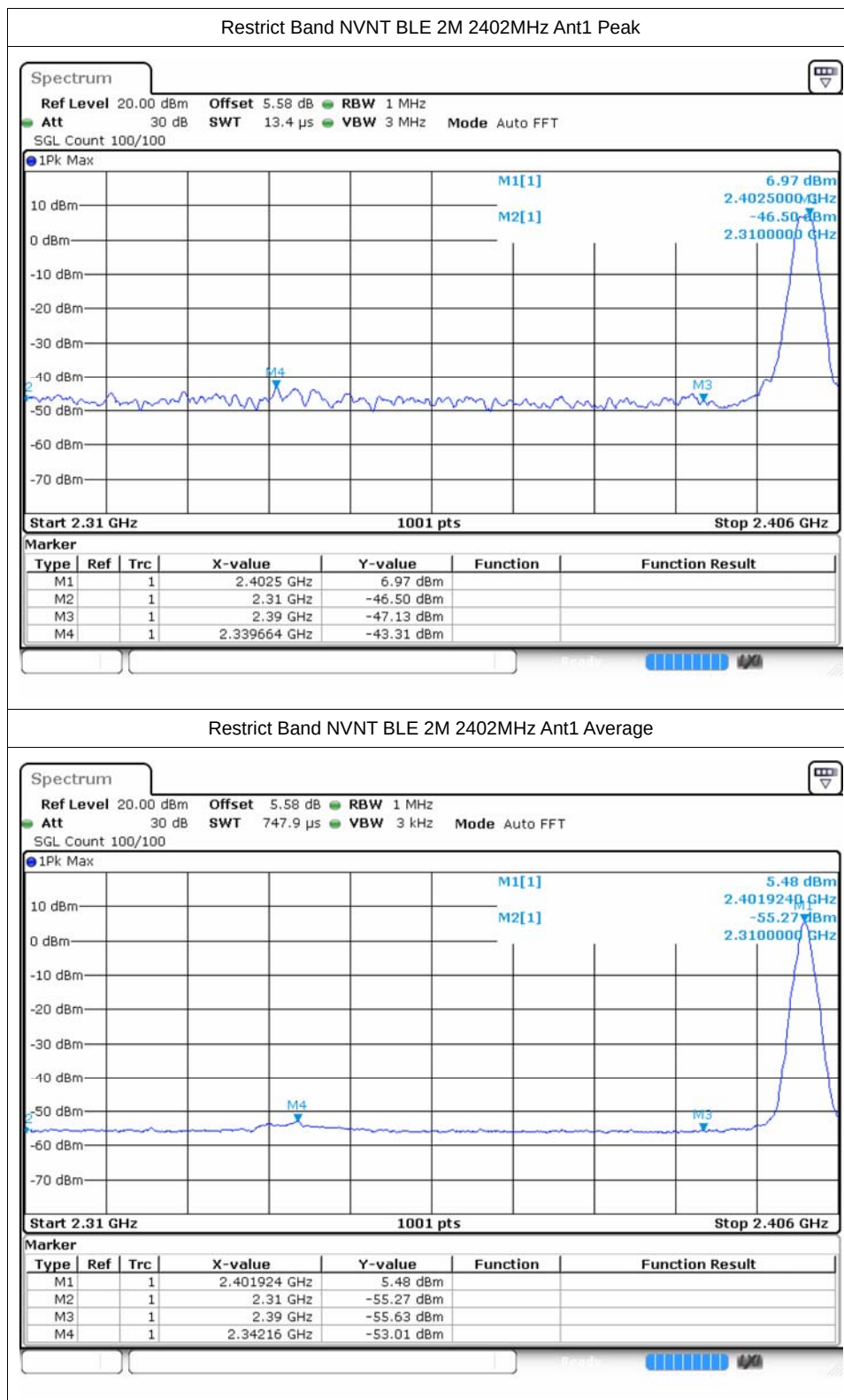
Restrict Band NVNT BLE 1M 2402MHz Ant1 Peak

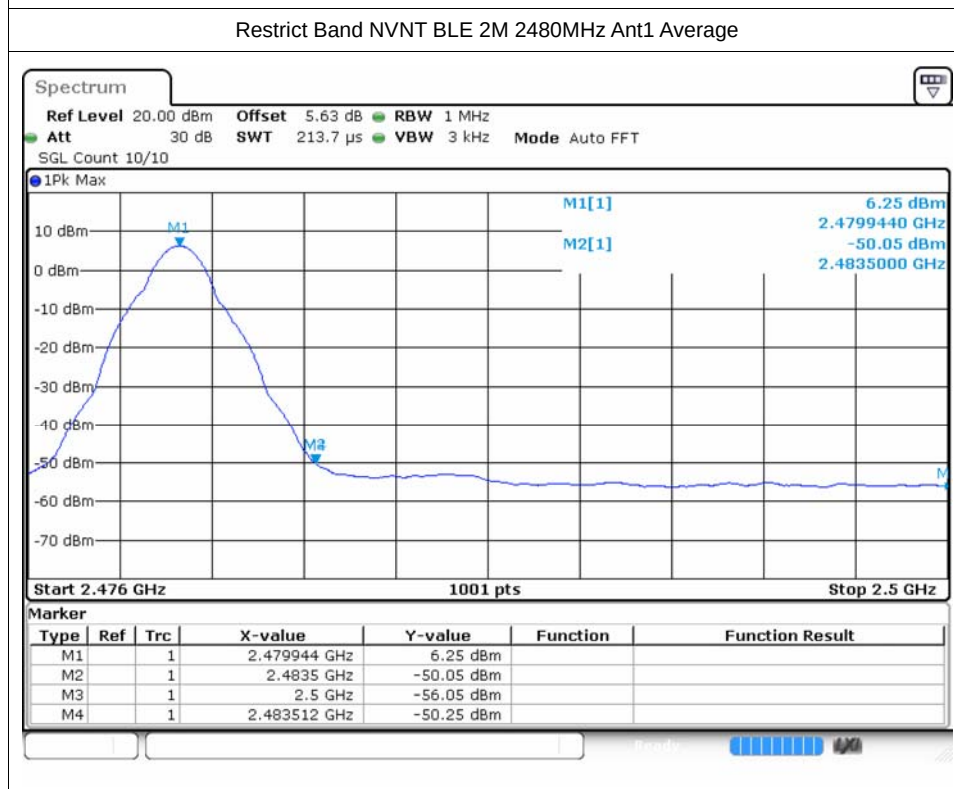
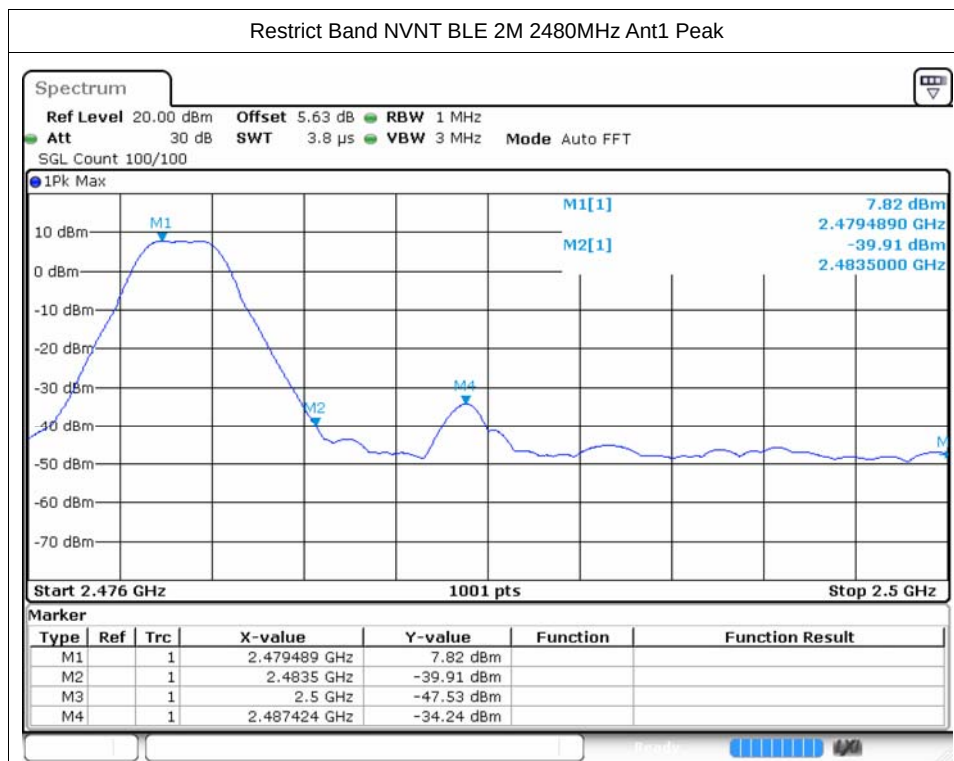


Restrict Band NVNT BLE 1M 2402MHz Ant1 Average









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