



## Appendix D

### RF Test Data for B1WIFI(Conducted Measurement)

Product Name: G1 Pro/G1

Trade Mark: BOSMA

Test Model: DC0201

#### Environmental Conditions

Temperature:	25.2° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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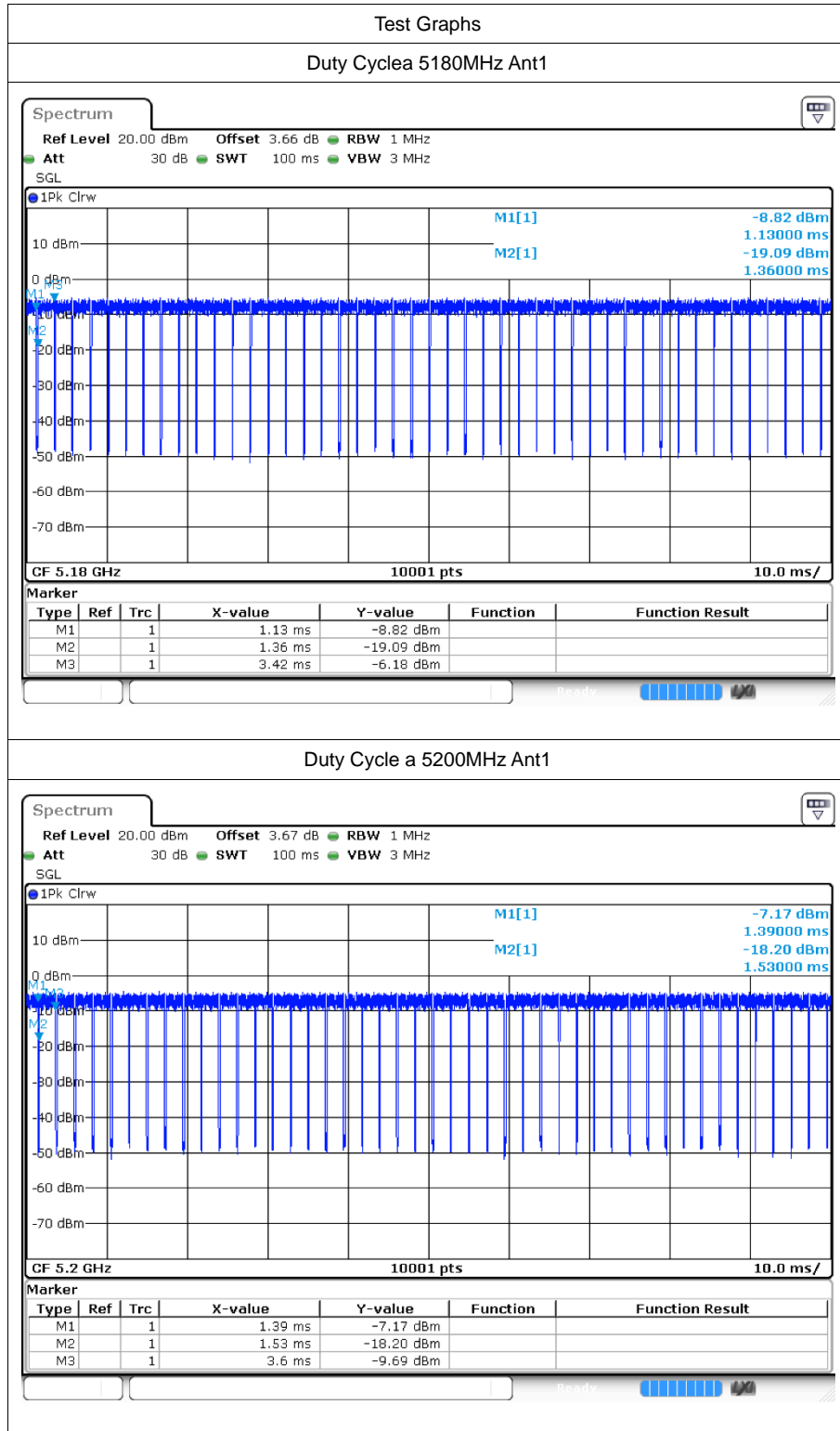
# 1 Duty Cycle

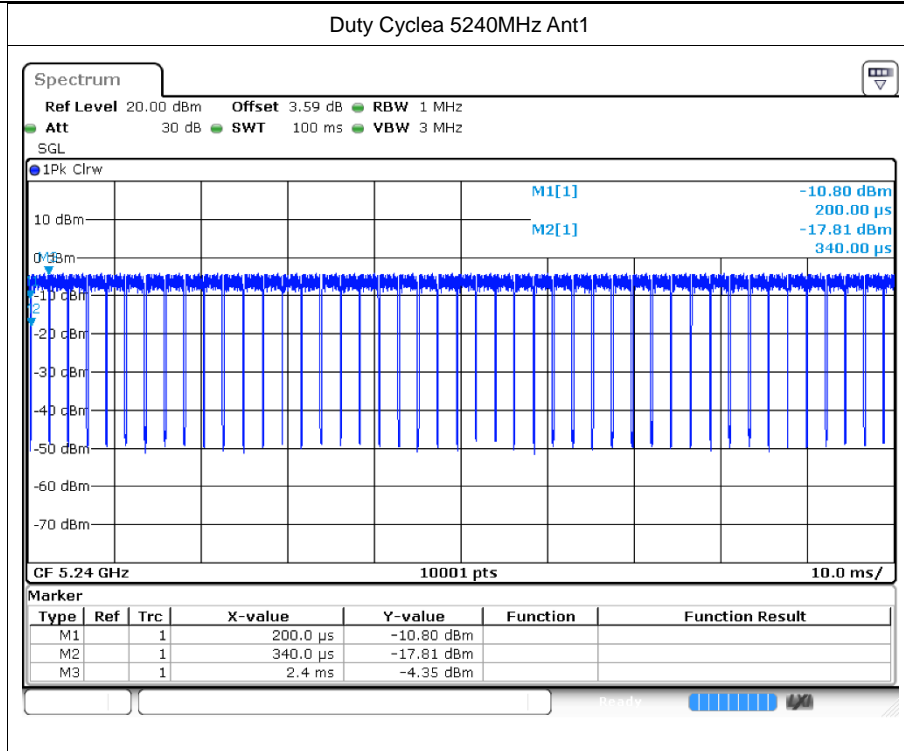
## 1.1 Test Result

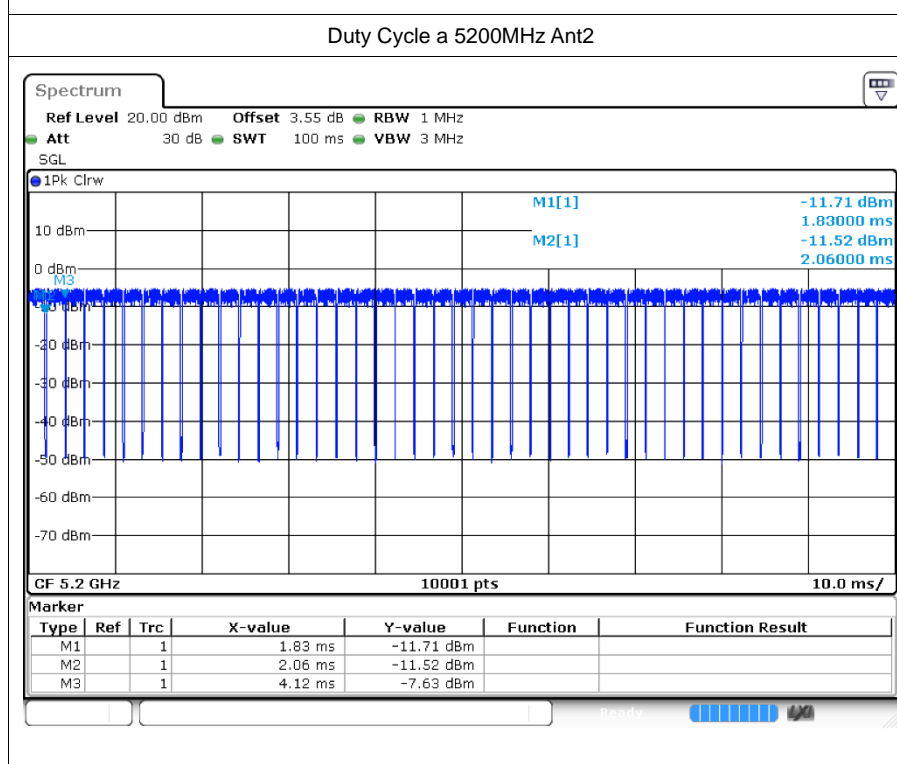
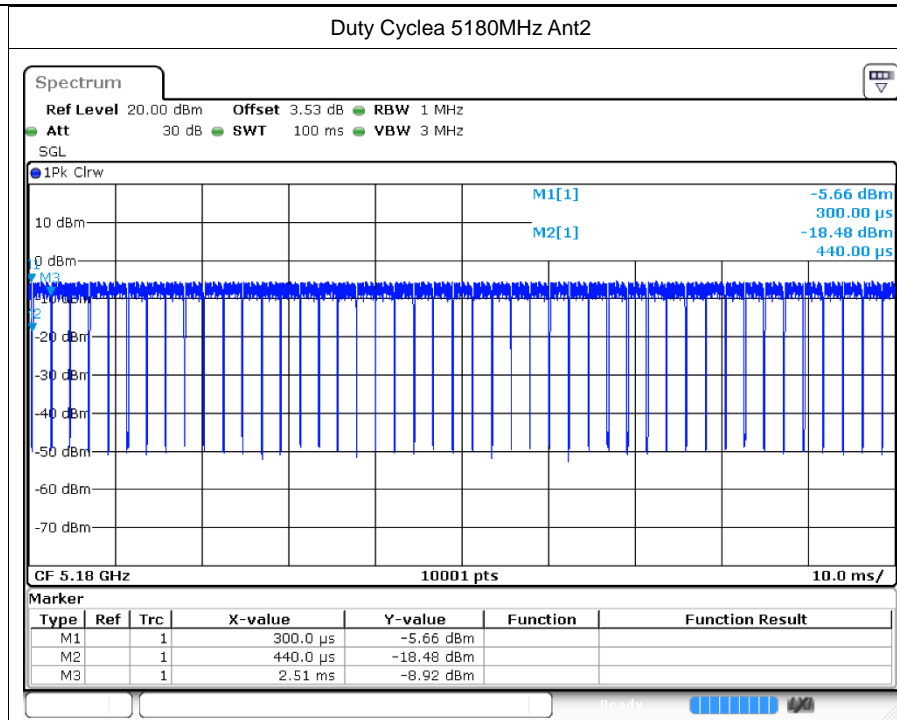
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	93.6	0.29	0.49
a	5200	Ant1	93.11	0.31	0.48
a	5240	Ant1	92.68	0.33	0.49
a	5180	Ant2	92.95	0.32	0.48
a	5200	Ant2	93.15	0.31	0.49
a	5240	Ant2	93.08	0.31	0.48
n20	5180	Ant1	93.21	0.31	0.52
n20	5200	Ant1	92.48	0.34	0.52
n20	5240	Ant1	92.71	0.33	0.52
n20	5180	Ant2	92.58	0.33	0.52
n20	5200	Ant2	92.3	0.35	0.52
n20	5240	Ant2	92.59	0.33	0.52
n40	5190	Ant1	86.17	0.65	1.05
n40	5230	Ant1	86.11	0.65	1.06
n40	5190	Ant2	85.84	0.66	1.05
n40	5230	Ant2	85.93	0.66	1.05
ac20	5180	Ant1	91.54	0.38	0.52
ac20	5200	Ant1	92.28	0.35	0.52
ac20	5240	Ant1	91.74	0.37	0.52
ac20	5180	Ant2	91.51	0.39	0.52
ac20	5200	Ant2	91.98	0.36	0.52
ac20	5240	Ant2	91.53	0.38	0.52
ac40	5190	Ant1	83.77	0.77	1.04
ac40	5230	Ant1	83.91	0.76	1.05
ac40	5190	Ant2	84.73	0.72	1.04
ac40	5230	Ant2	83.6	0.78	1.08
ac80	5210	Ant1	73.84	1.32	2.13

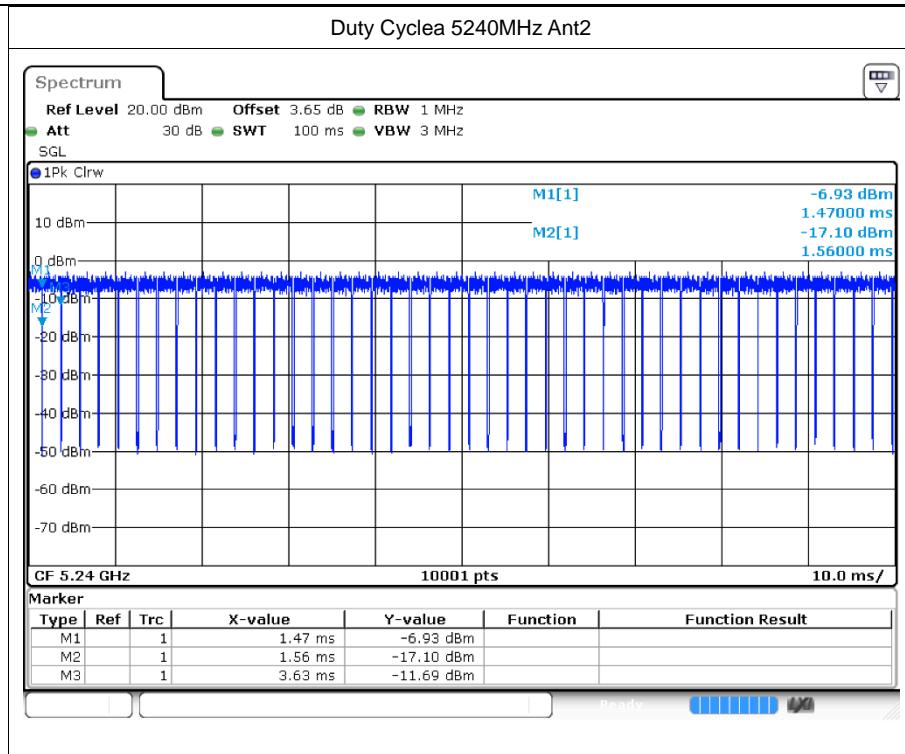


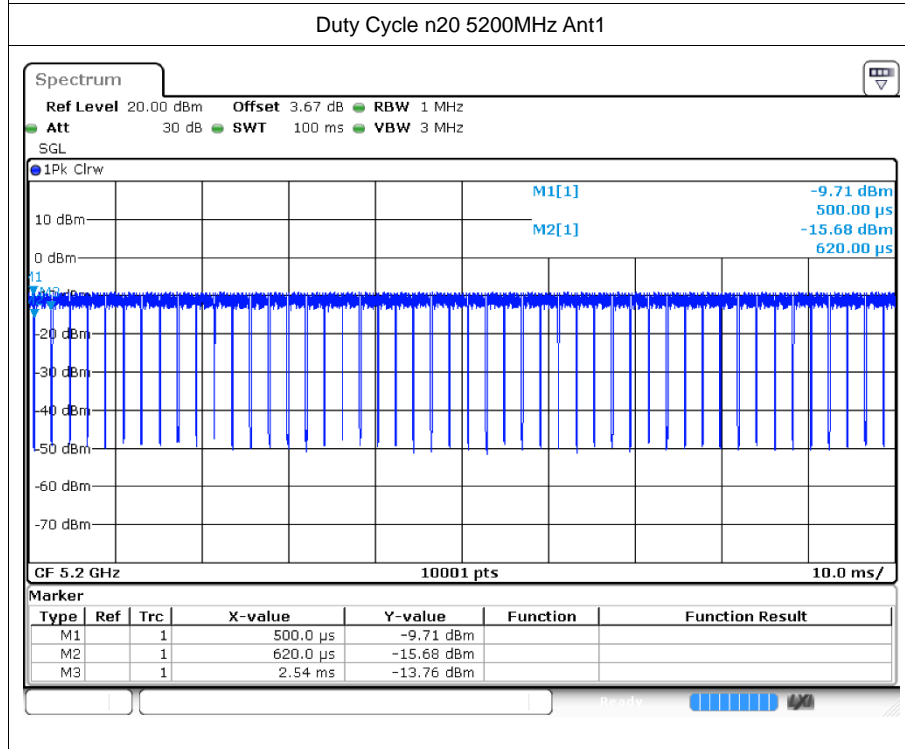
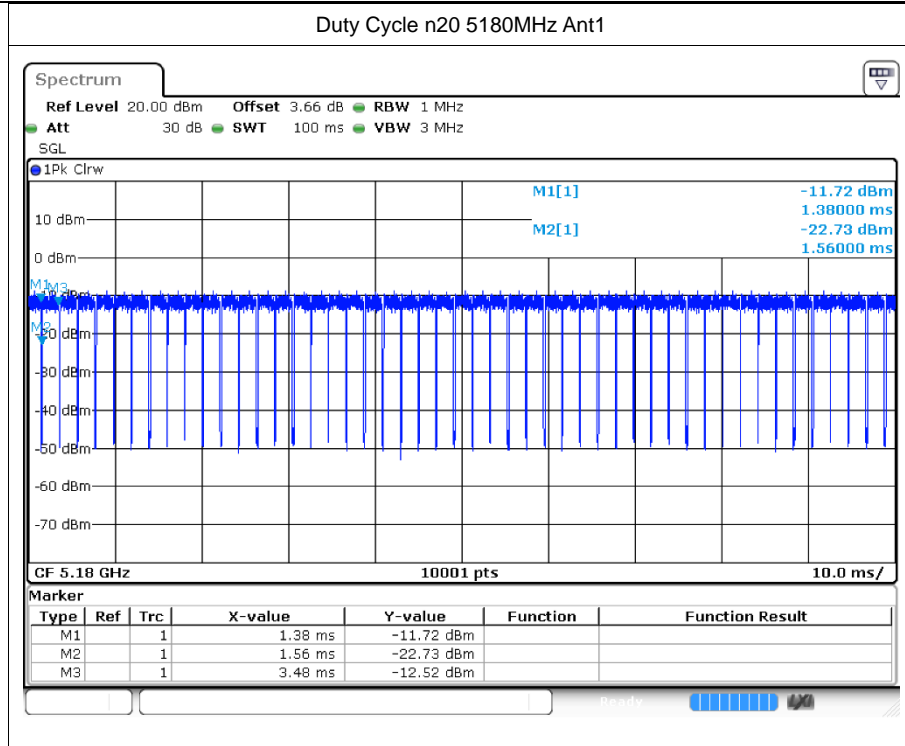
### 1.2 Test Graphs



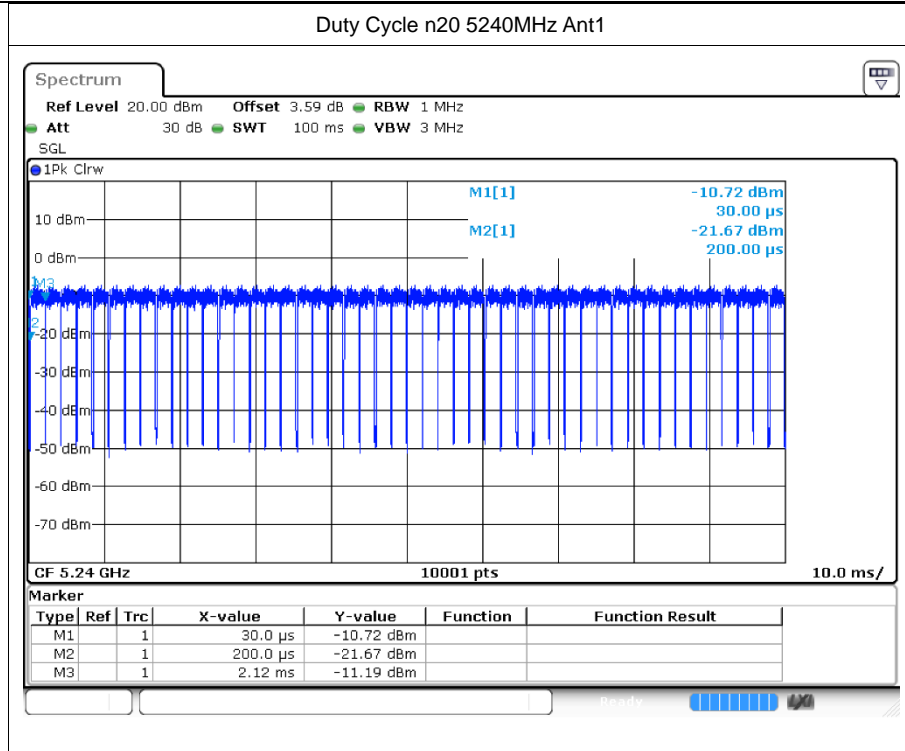


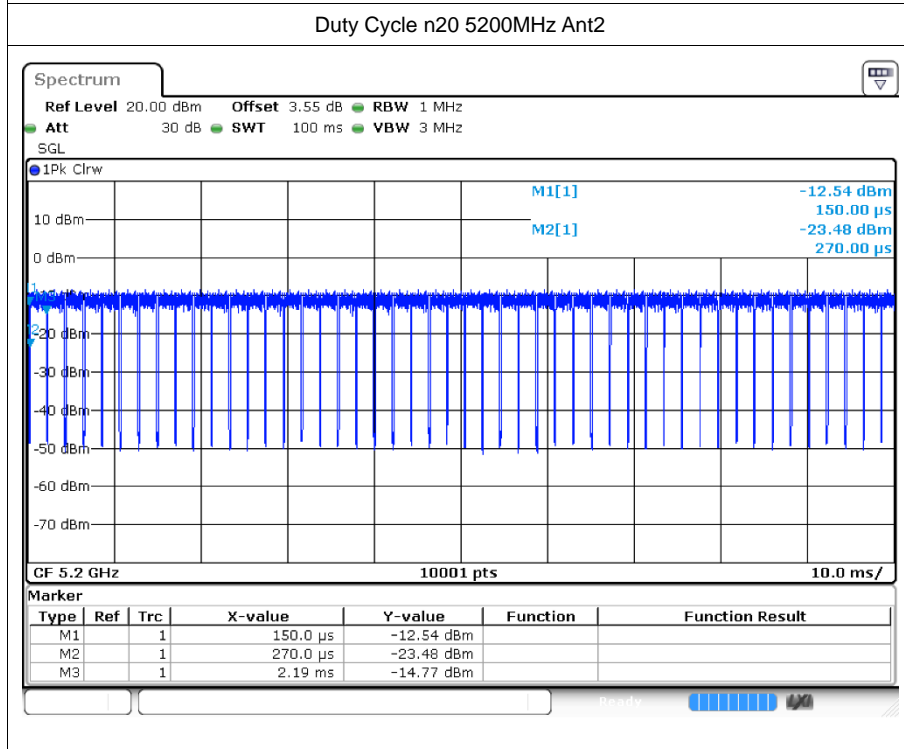
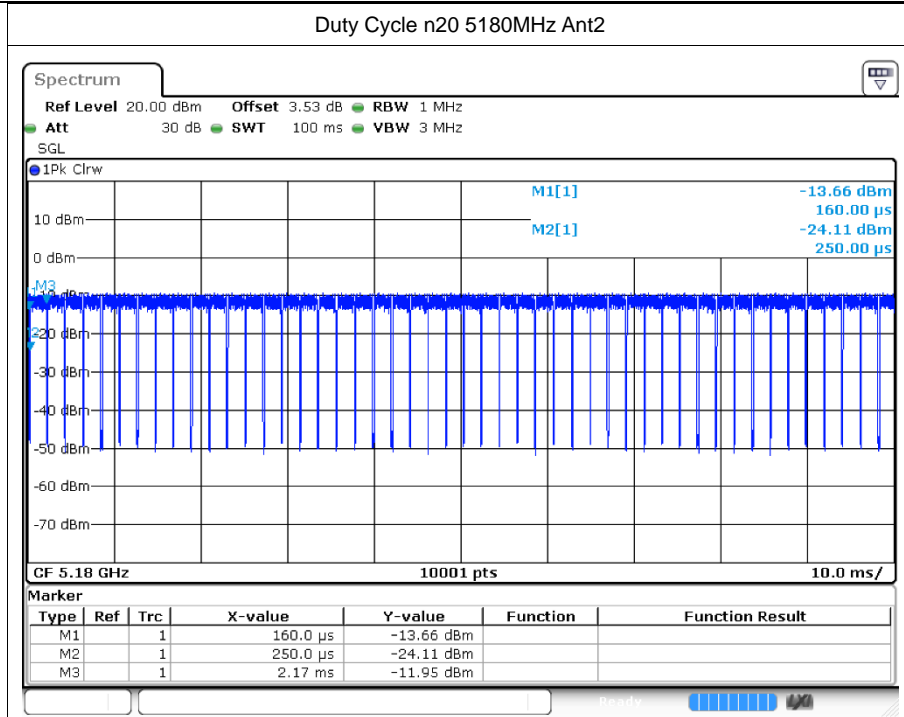


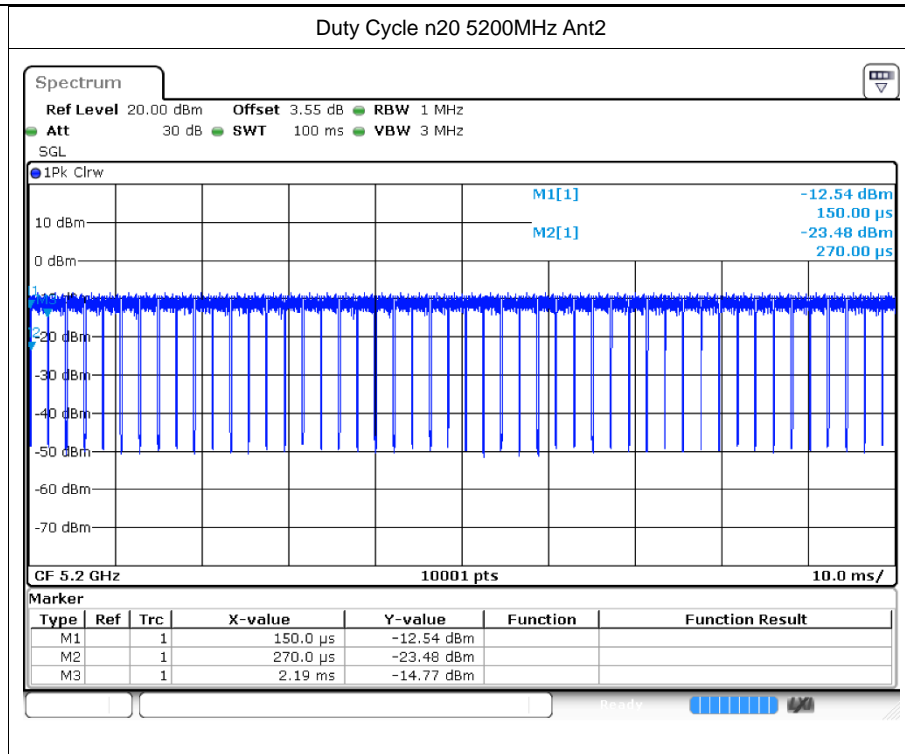


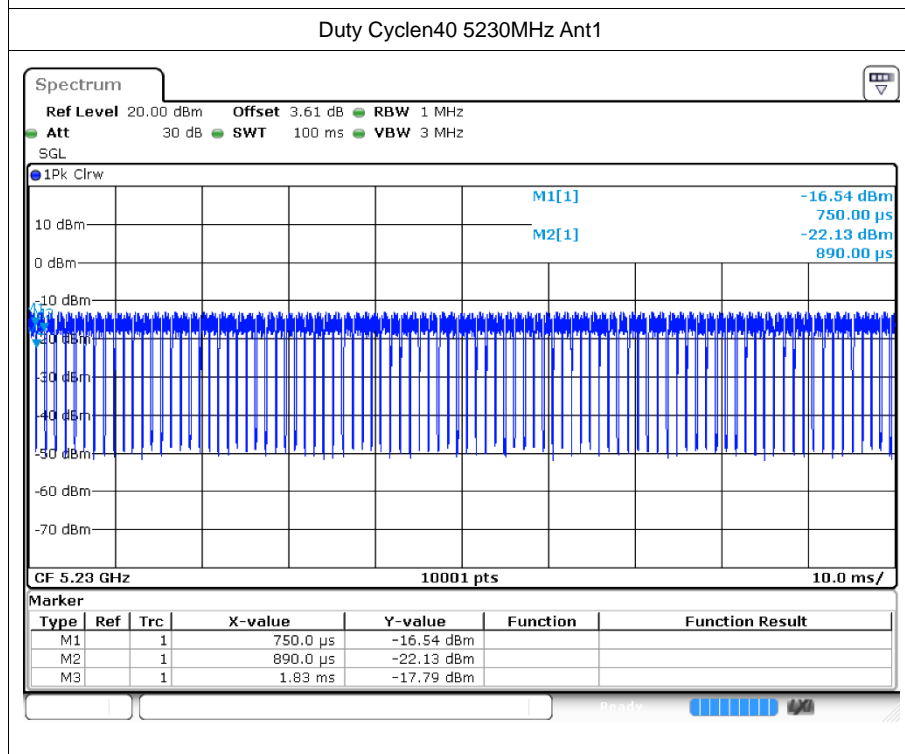
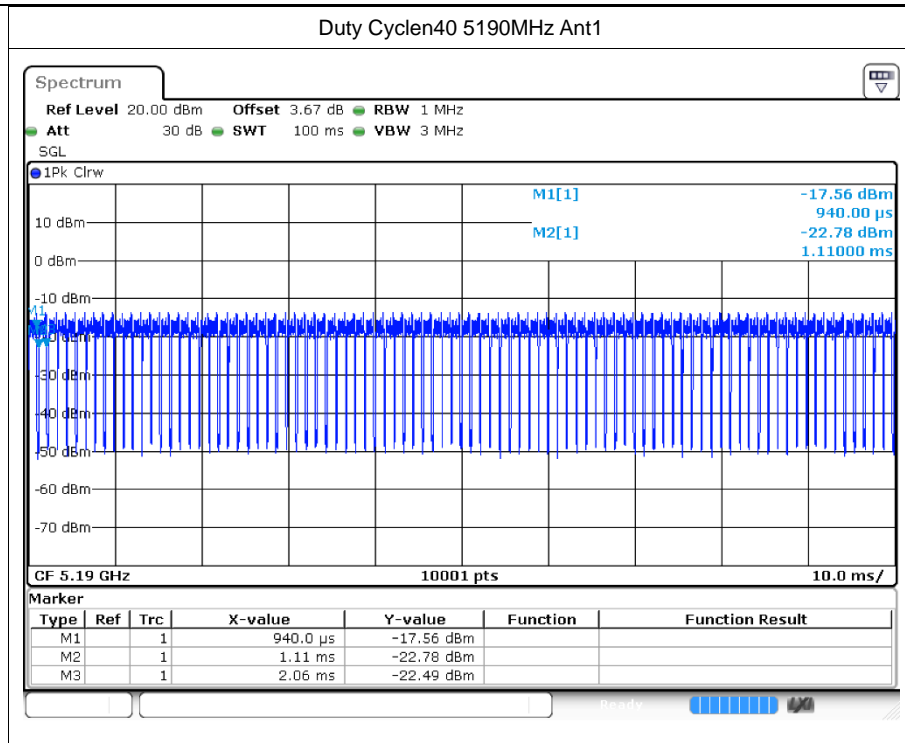


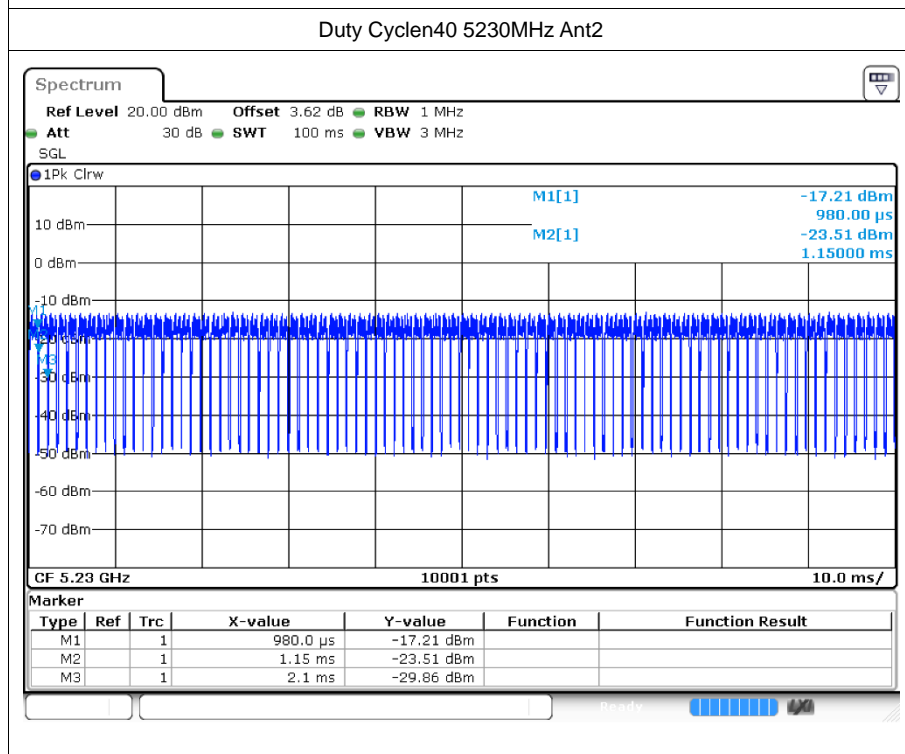
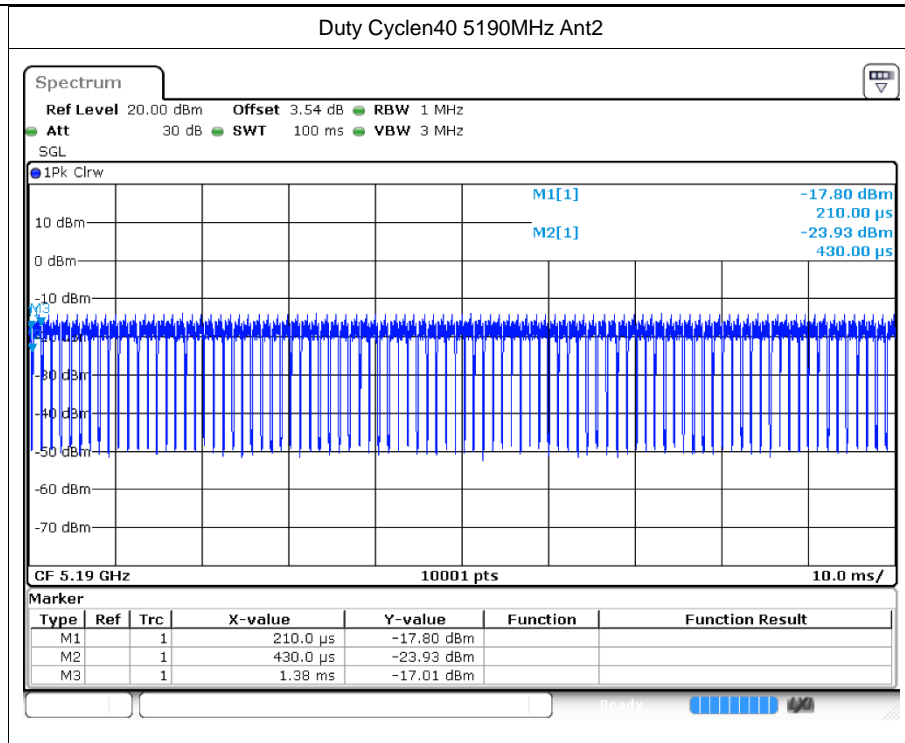


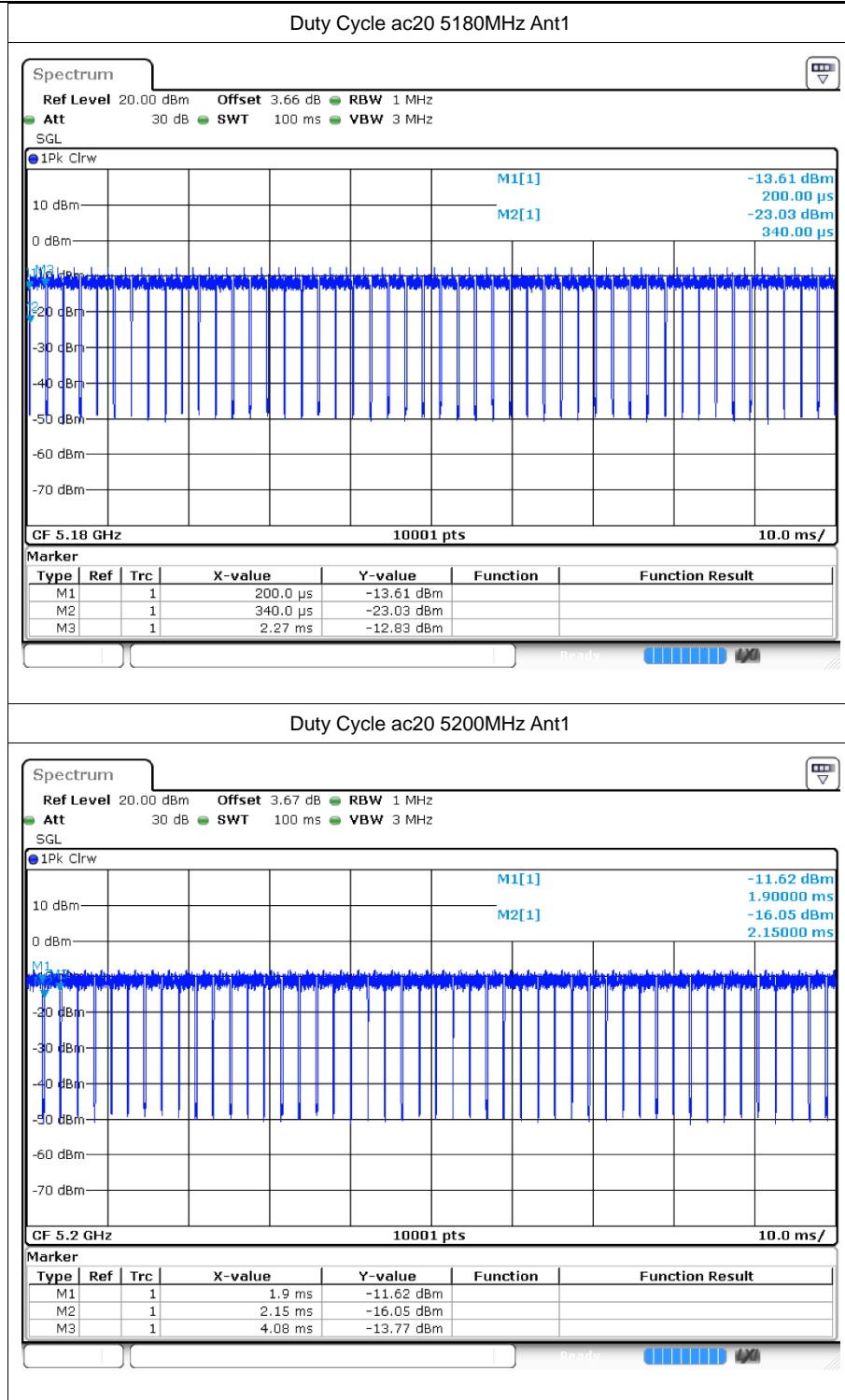


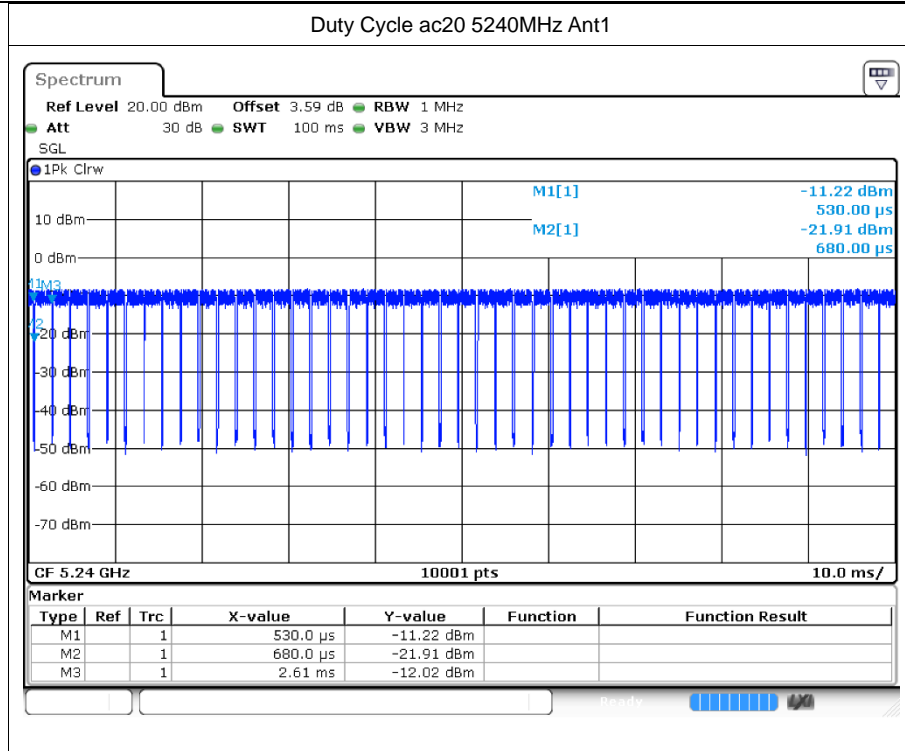


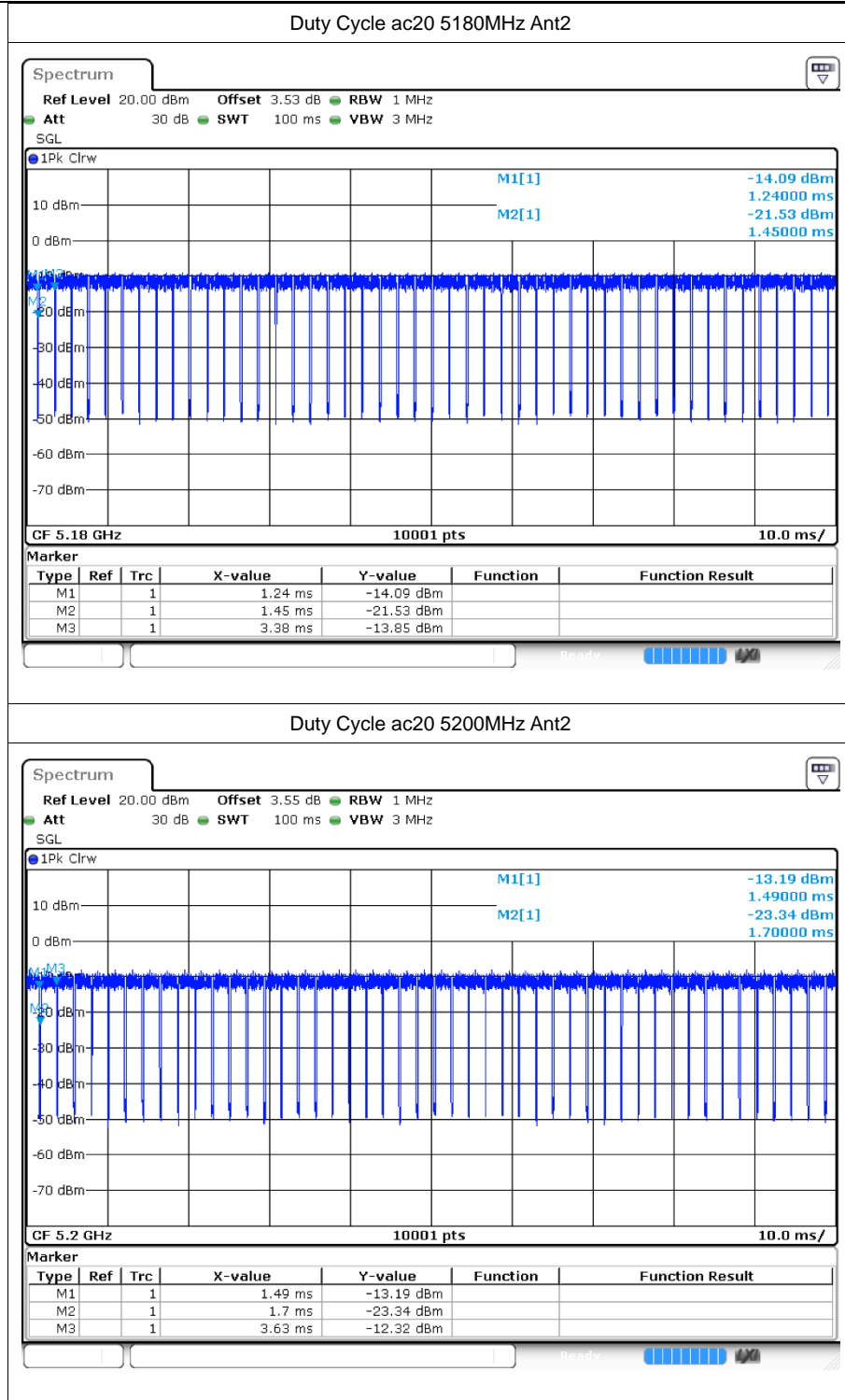




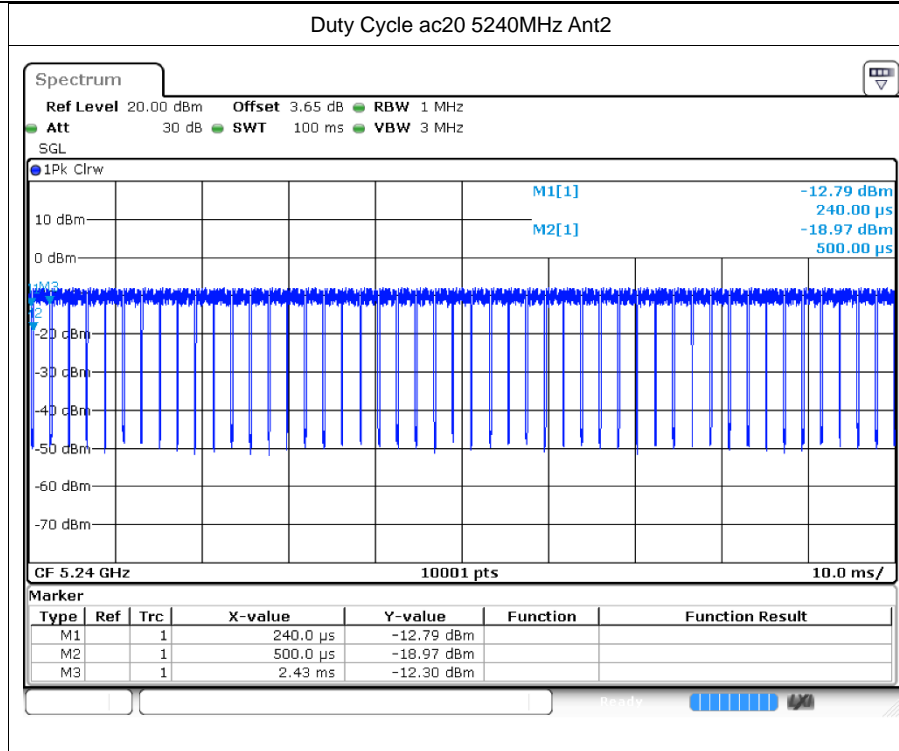


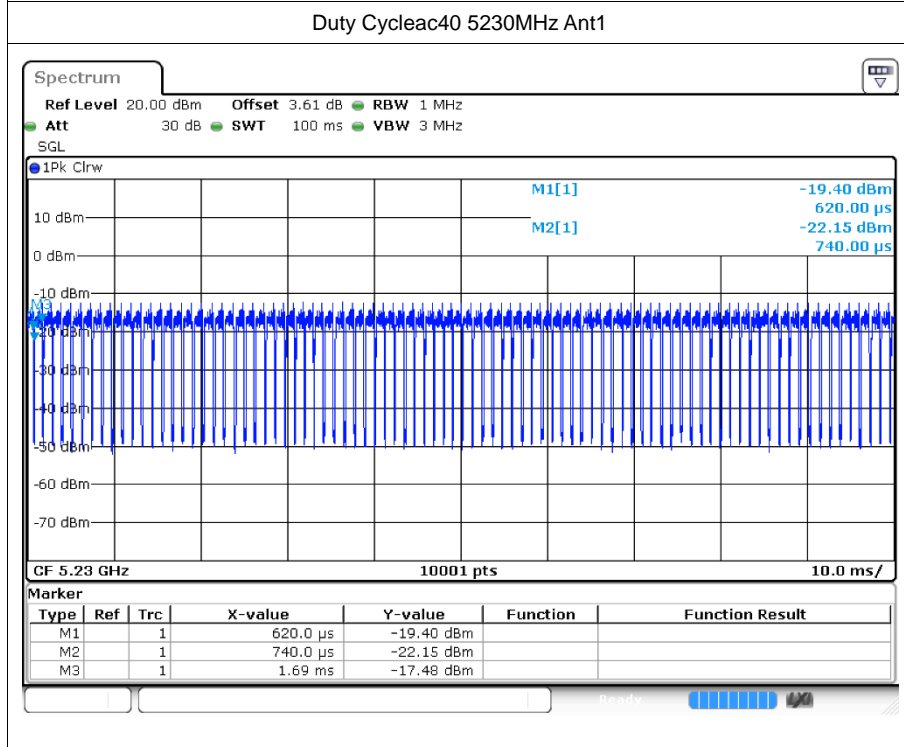
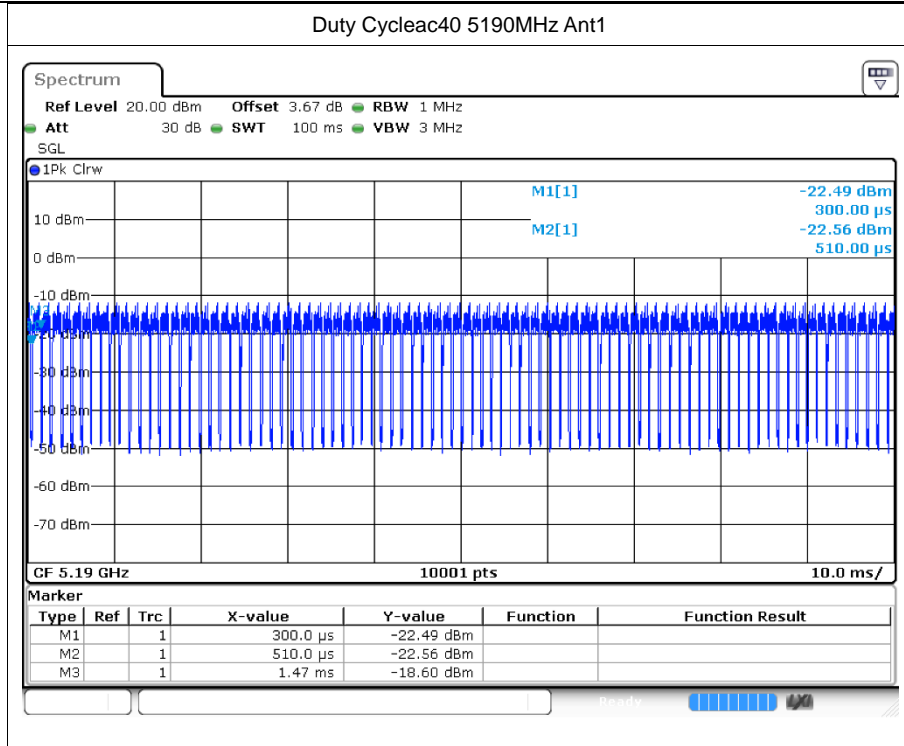


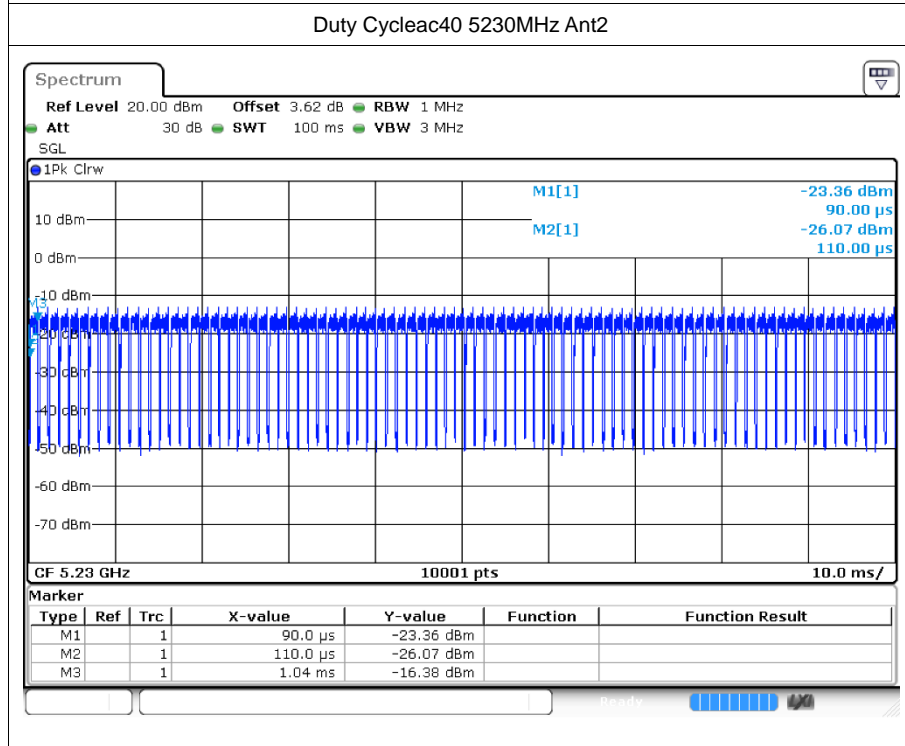
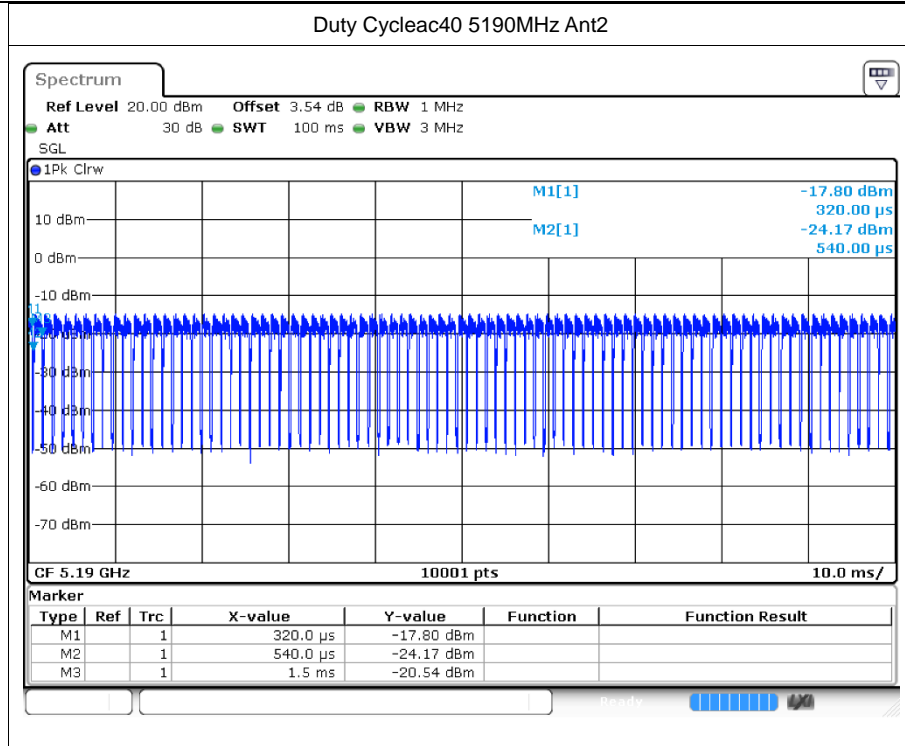


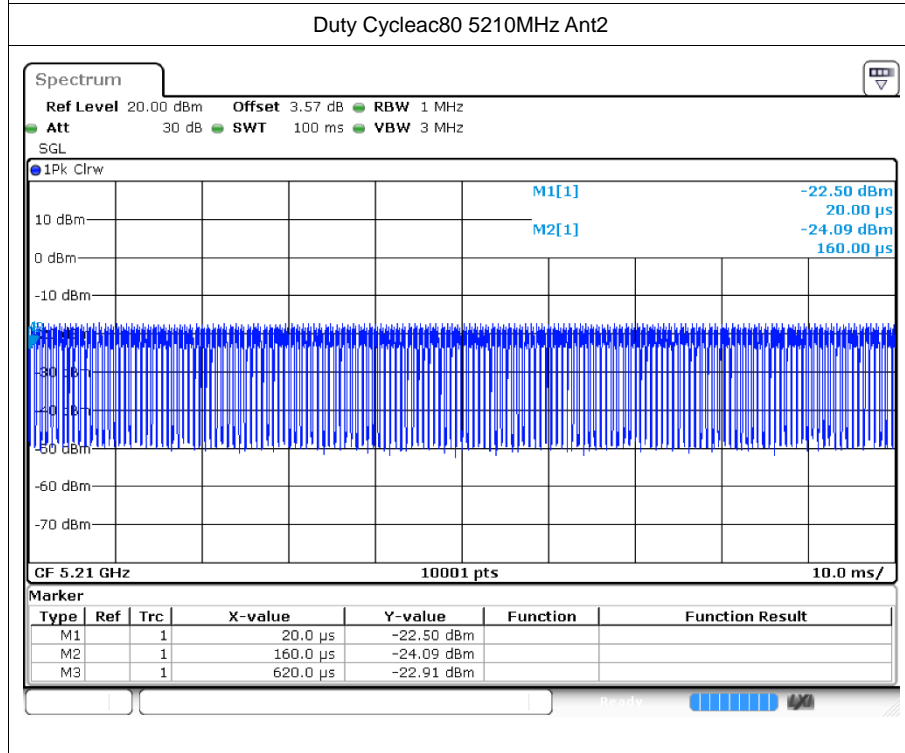
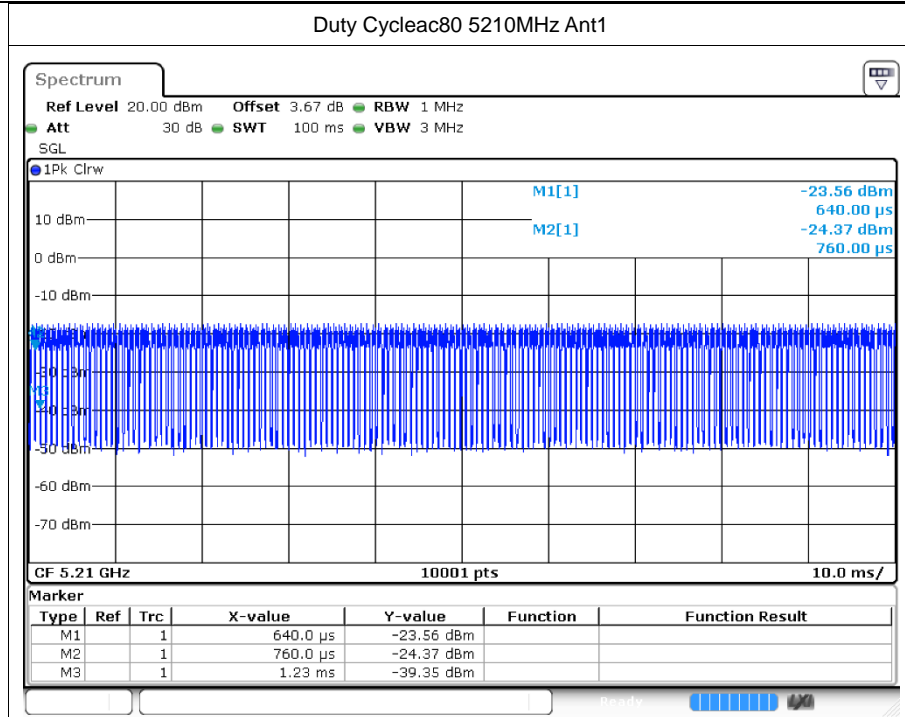














## 2 Maximum Conducted Output Power

### 2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	2.98	0.29	3.27	24	Pass
a	5200	Ant1	3.49	0.31	3.80	24	Pass
a	5240	Ant1	4.16	0.33	4.49	24	Pass
a	5180	Ant2	3.02	0.32	3.34	24	Pass
a	5200	Ant2	3.17	0.31	3.48	24	Pass
a	5240	Ant2	4.48	0.31	4.79	24	Pass
n20	5180	Ant1	-0.63	0.31	-0.32	24	Pass
n20	5180	Ant2	-0.62	0.33	-0.29	24	Pass
n20	5180	Sum	2.39	0.33	2.72	23.99	Pass
n20	5200	Ant1	-0.19	0.34	0.15	24	Pass
n20	5200	Ant2	-0.47	0.35	-0.12	24	Pass
n20	5200	Sum	2.68	0.35	3.03	23.99	Pass
n20	5240	Ant1	0.53	0.33	0.86	24	Pass
n20	5240	Ant2	0.8	0.33	1.13	24	Pass
n20	5240	Sum	3.68	0.33	4.01	23.99	Pass
n40	5190	Ant1	-0.57	0.65	0.08	24	Pass
n40	5190	Ant2	-0.77	0.66	-0.11	24	Pass
n40	5190	Sum	2.34	0.66	3.00	23.99	Pass
n40	5230	Ant1	0.33	0.65	0.98	24	Pass
n40	5230	Ant2	0.16	0.66	0.82	24	Pass
n40	5230	Sum	3.26	0.66	3.92	23.99	Pass
ac20	5180	Ant1	-0.75	0.38	-0.37	24	Pass
ac20	5180	Ant2	-0.68	0.39	-0.29	24	Pass
ac20	5180	Sum	2.3	0.39	2.69	23.99	Pass
ac20	5200	Ant1	-0.24	0.35	0.11	24	Pass
ac20	5200	Ant2	-0.54	0.36	-0.18	24	Pass
ac20	5200	Sum	2.62	0.36	2.98	23.99	Pass
ac20	5240	Ant1	0.47	0.37	0.84	24	Pass
ac20	5240	Ant2	0.78	0.38	1.16	24	Pass
ac20	5240	Sum	3.64	0.38	4.02	23.99	Pass
ac40	5190	Ant1	-0.67	0.77	0.10	24	Pass
ac40	5190	Ant2	-0.78	0.72	-0.06	24	Pass
ac40	5190	Sum	2.29	0.72	3.01	23.99	Pass
ac40	5230	Ant1	0.35	0.76	1.11	24	Pass
ac40	5230	Ant2	0.07	0.78	0.85	24	Pass
ac40	5230	Sum	3.22	0.78	4.00	23.99	Pass



ac80	5210	Ant1	-0.39	1.32	0.93	24	Pass
ac80	5210	Ant2	-0.69	1.32	0.63	24	Pass
ac80	5210	Sum	2.47	1.32	3.79	23.99	Pass

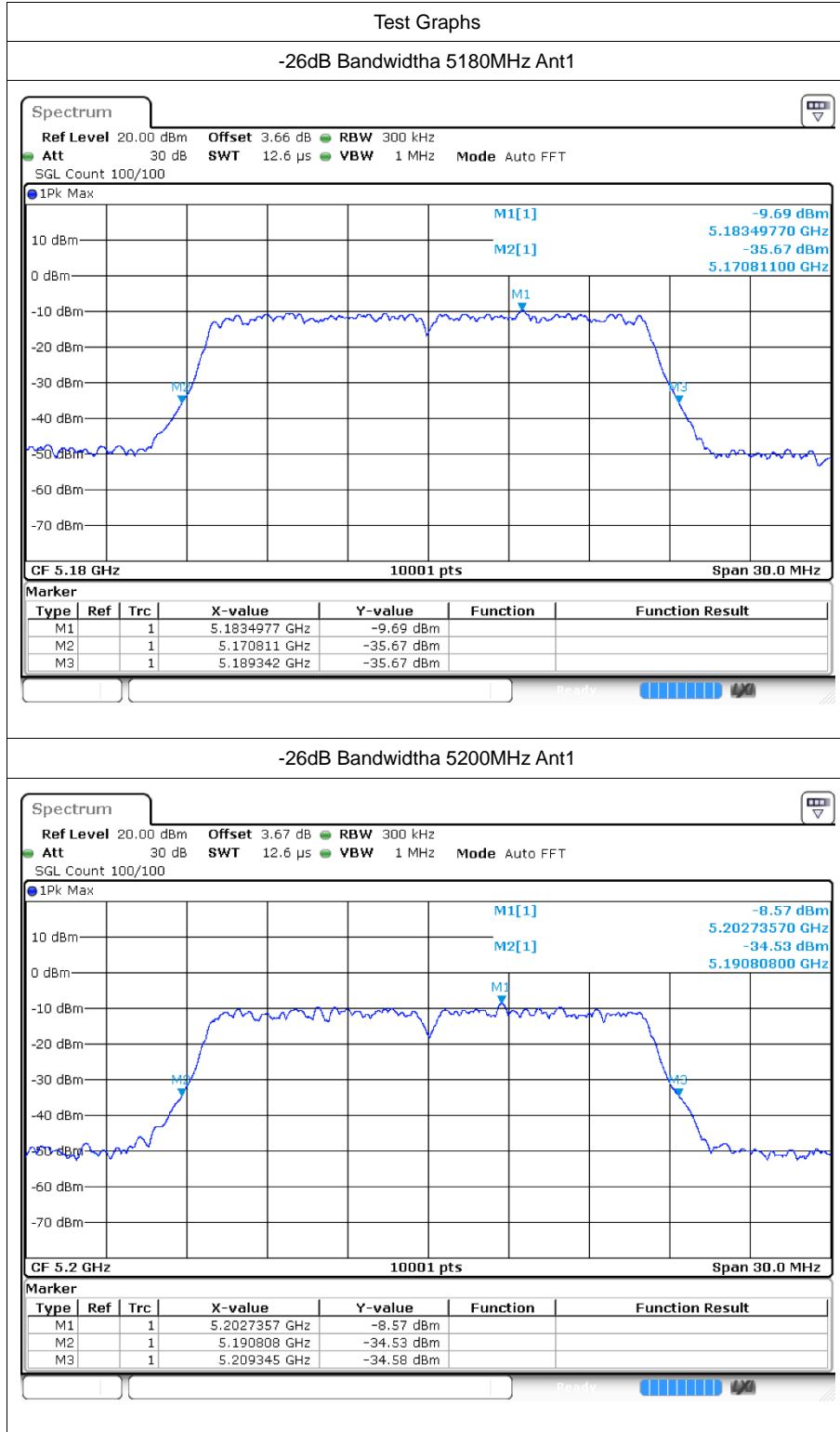


### 3 -26dB Bandwidth

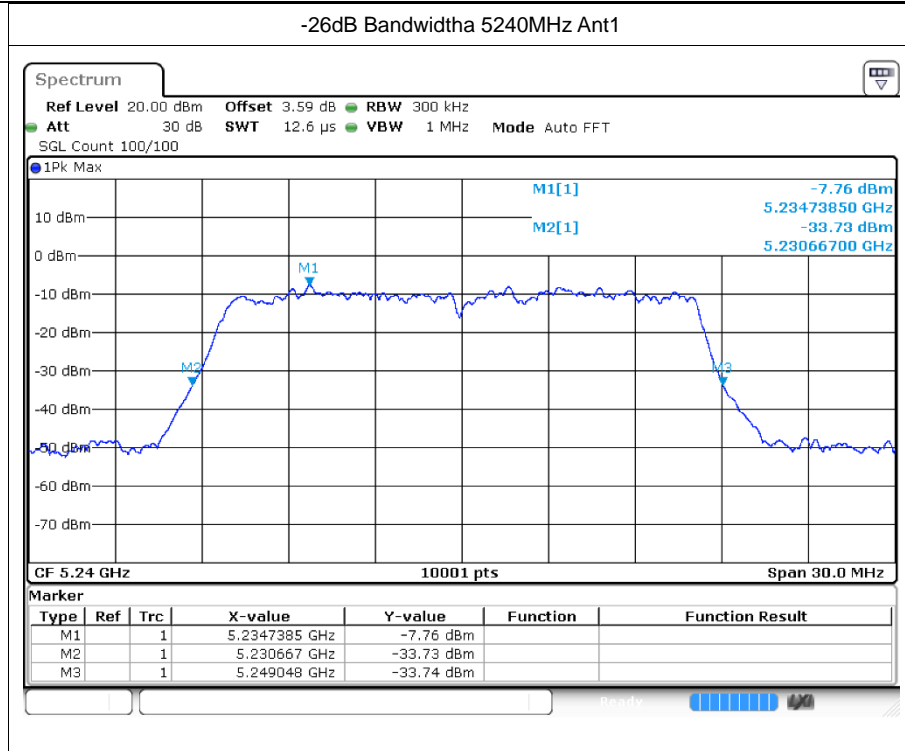
#### 3.1 Test Result

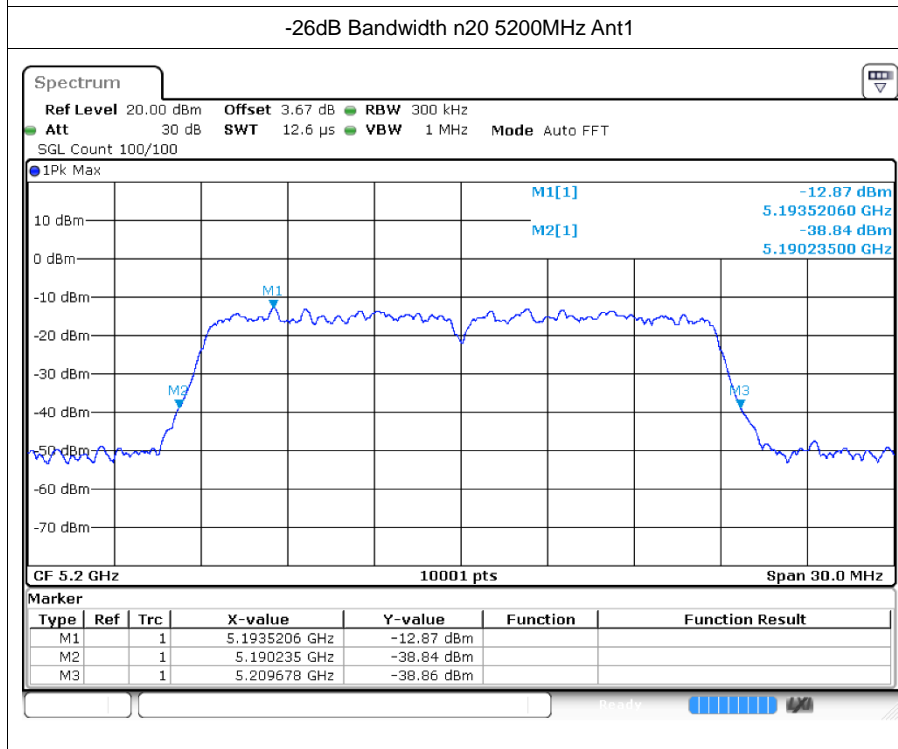
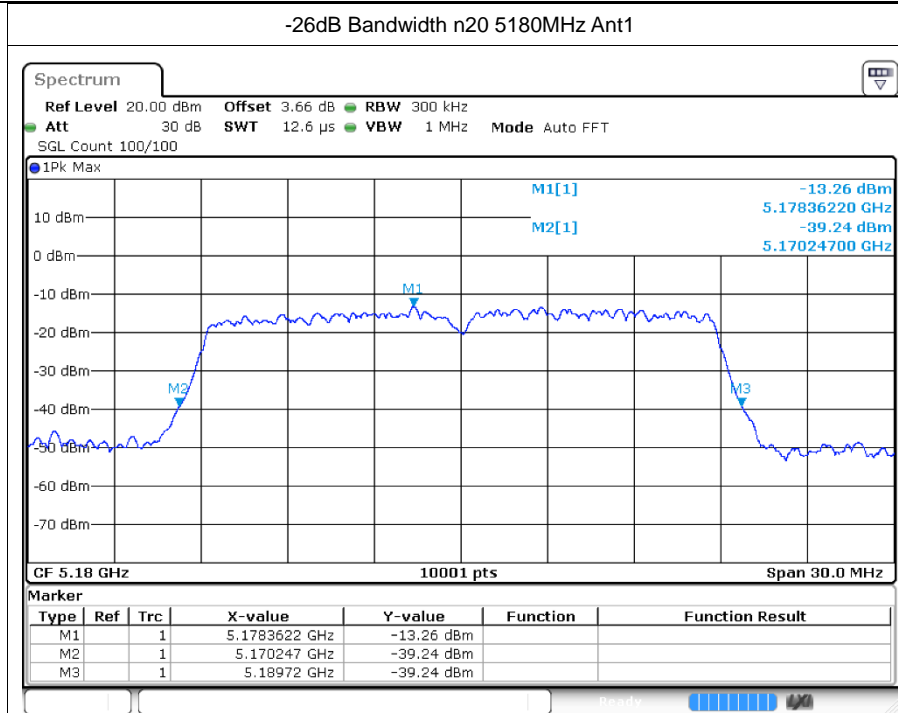
Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	18.531	No limit	Pass
a	5200	Ant1	18.537	No limit	Pass
a	5240	Ant1	18.381	No limit	Pass
n20	5180	Ant1	19.473	No limit	Pass
n20	5200	Ant1	19.443	No limit	Pass
n20	5240	Ant1	19.575	No limit	Pass
n40	5190	Ant1	39.246	No limit	Pass
n40	5230	Ant1	40.344	No limit	Pass
ac20	5180	Ant1	19.437	No limit	Pass
ac20	5200	Ant1	19.323	No limit	Pass
ac20	5240	Ant1	19.386	No limit	Pass
ac80	5210	Ant1	79.368	No limit	Pass
a	5180	Ant2	18.546	No limit	Pass
a	5200	Ant2	18.531	No limit	Pass
a	5240	Ant2	18.819	No limit	Pass
n20	5180	Ant2	19.5	No limit	Pass
n20	5200	Ant2	19.521	No limit	Pass
n20	5240	Ant2	19.545	No limit	Pass
n40	5190	Ant2	39.168	No limit	Pass
n40	5230	Ant2	40.29	No limit	Pass
ac20	5180	Ant2	19.398	No limit	Pass
ac20	5200	Ant2	19.467	No limit	Pass
ac20	5240	Ant2	19.365	No limit	Pass
ac40	5190	Ant2	39.786	No limit	Pass
ac40	5230	Ant2	40.764	No limit	Pass
ac80	5210	Ant2	78.792	No limit	Pass

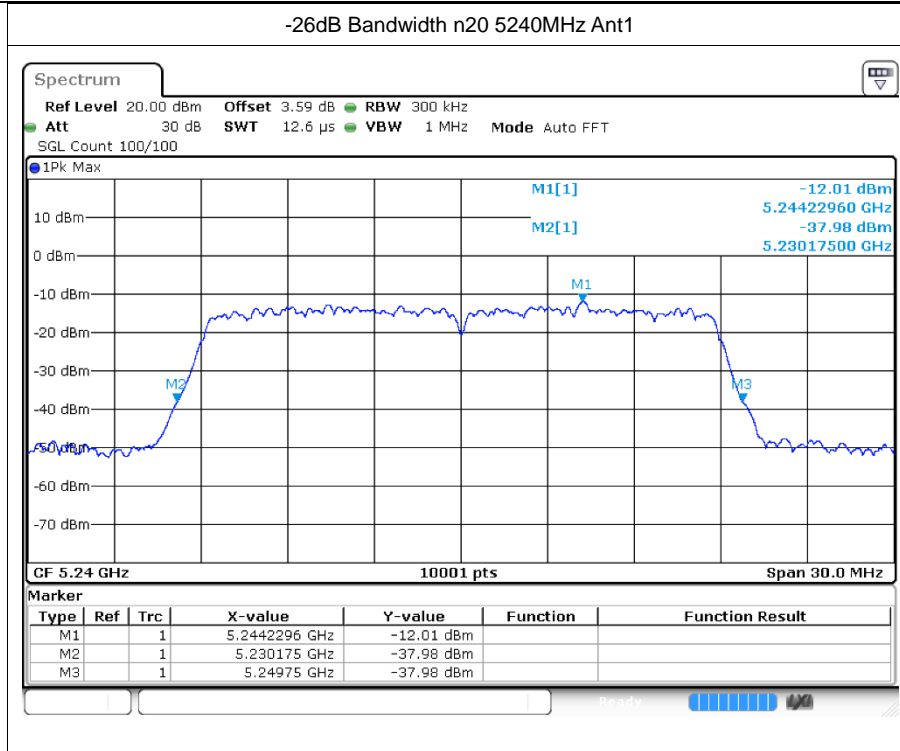
### 3.2 Test Graphs





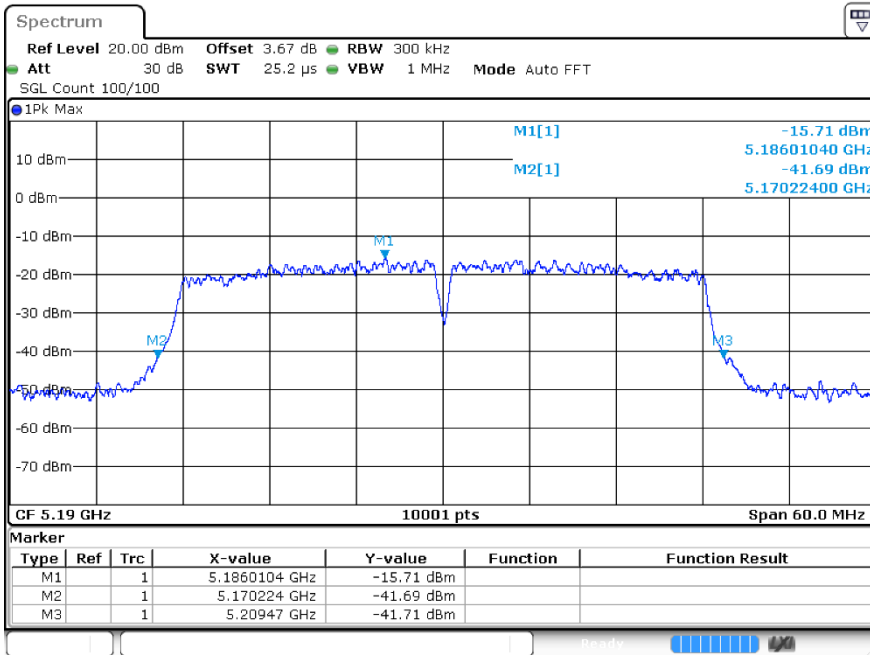




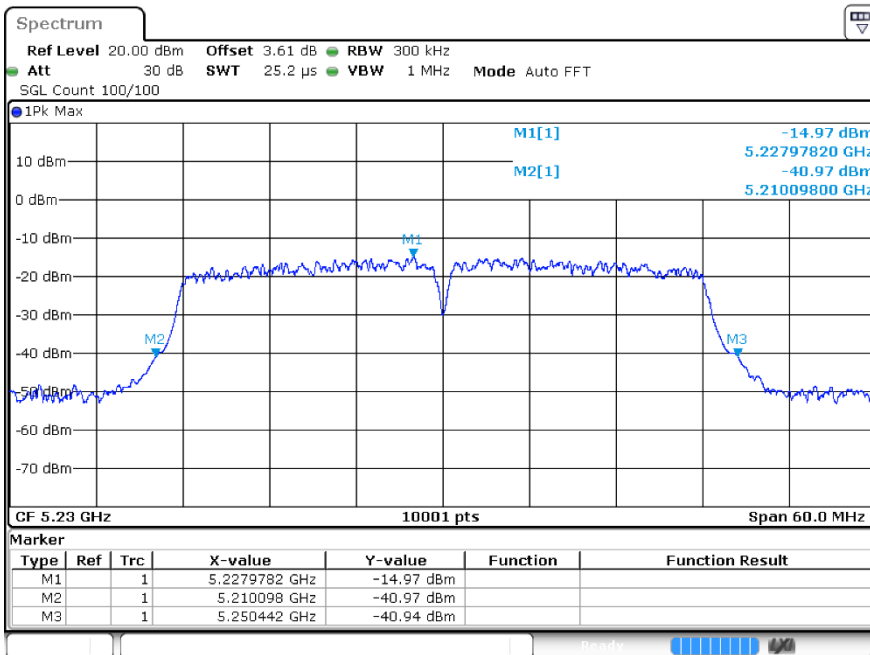


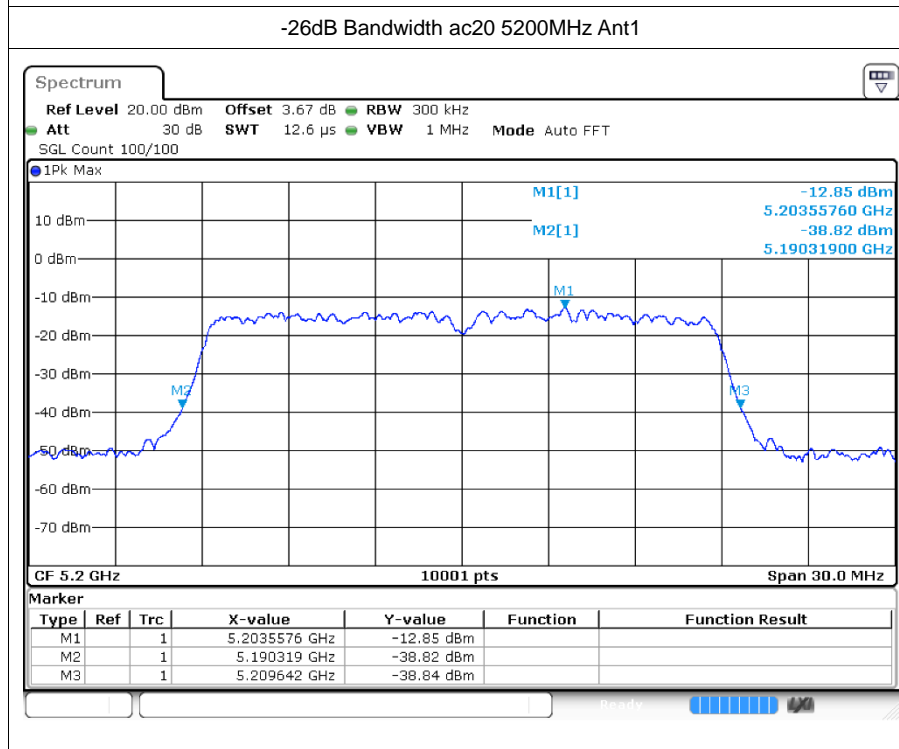
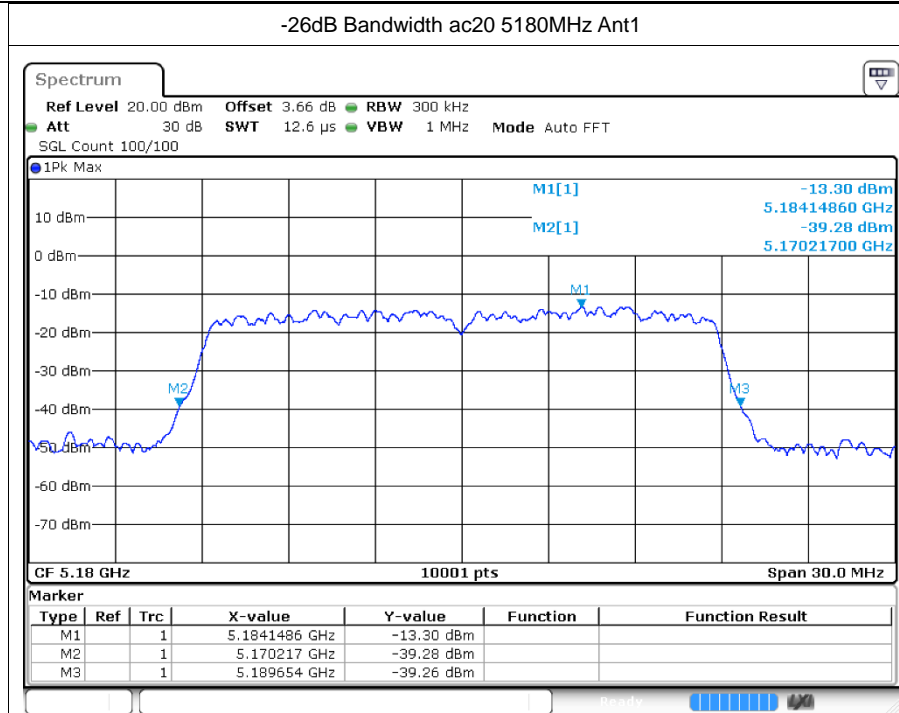


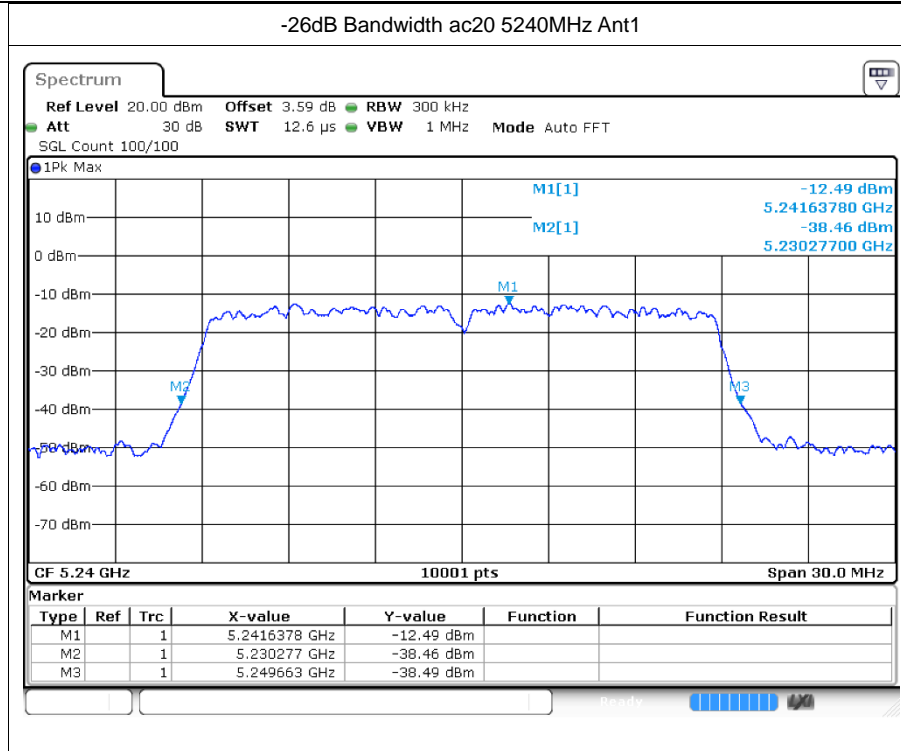
-26dB Bandwidth40 5190MHz Ant1

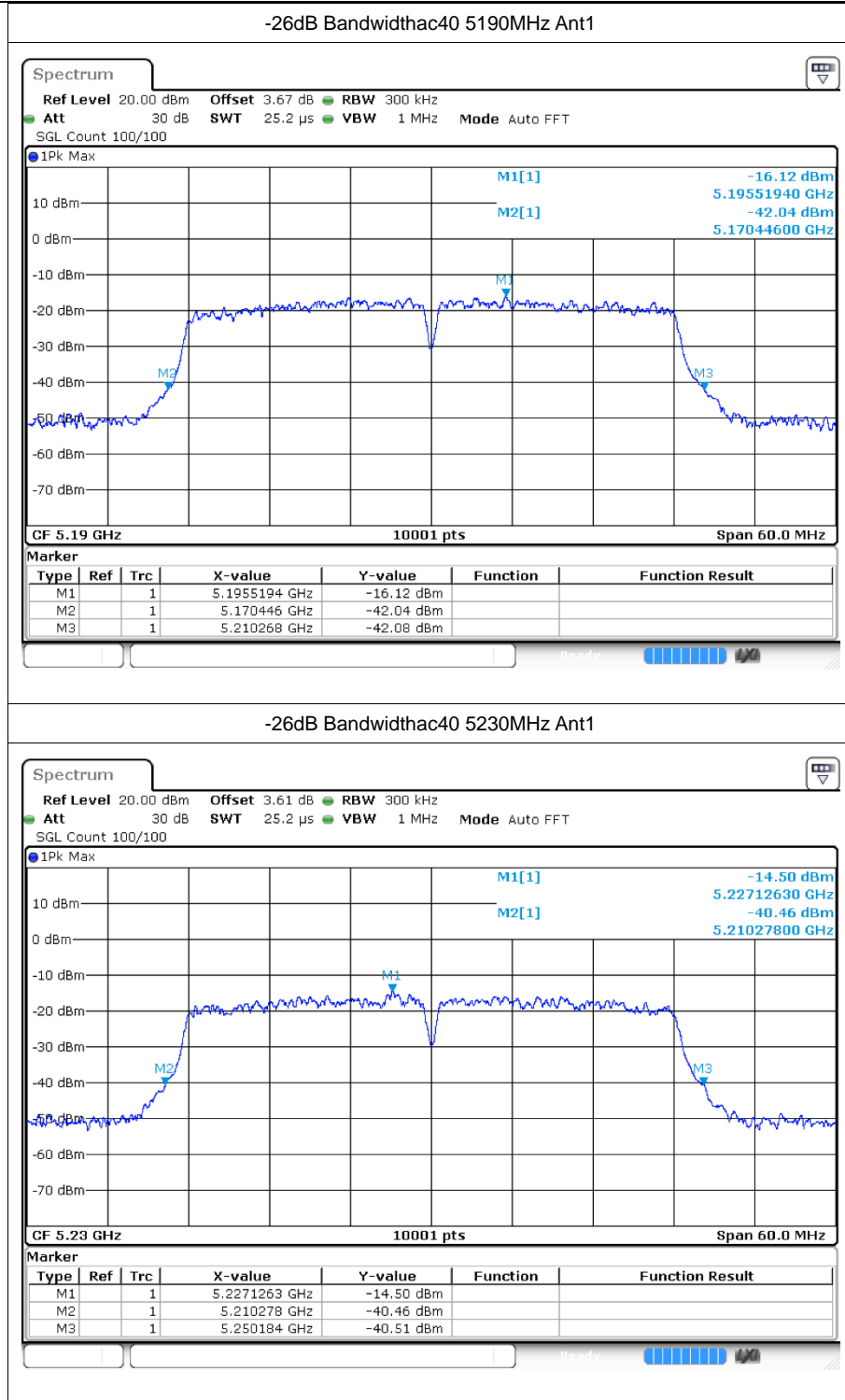


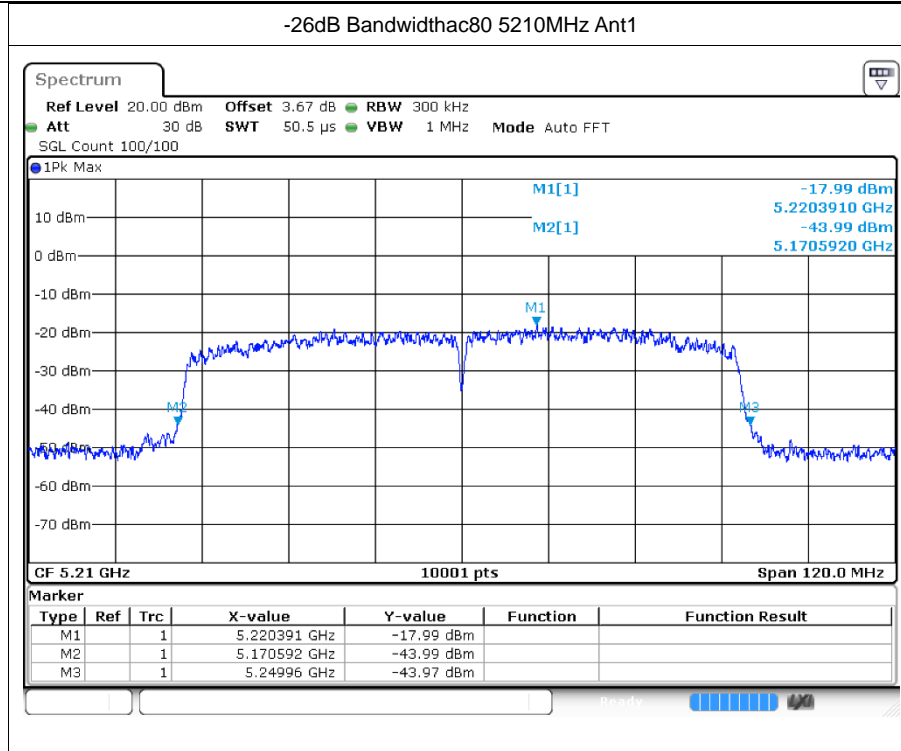
-26dB Bandwidth40 5230MHz Ant1







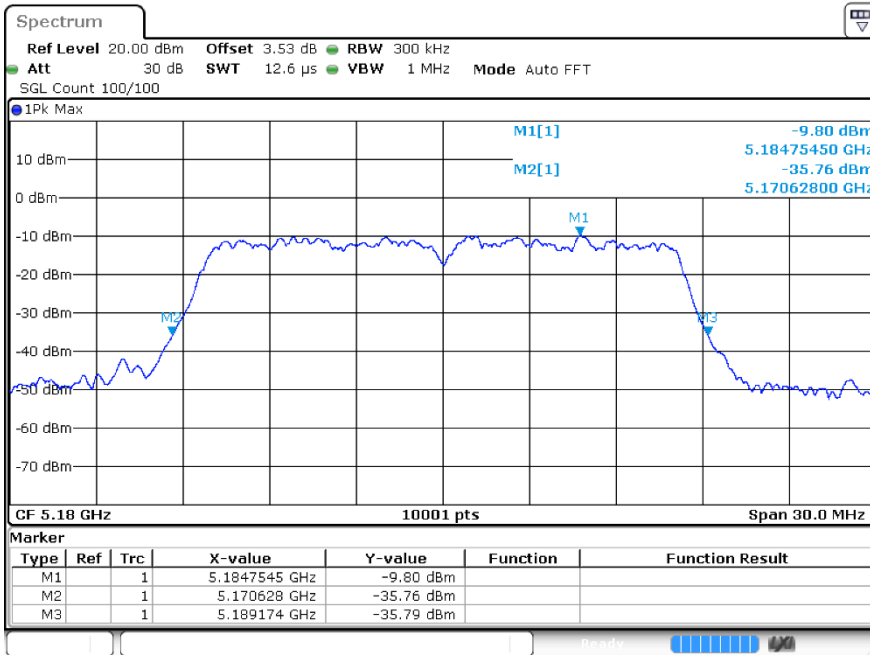




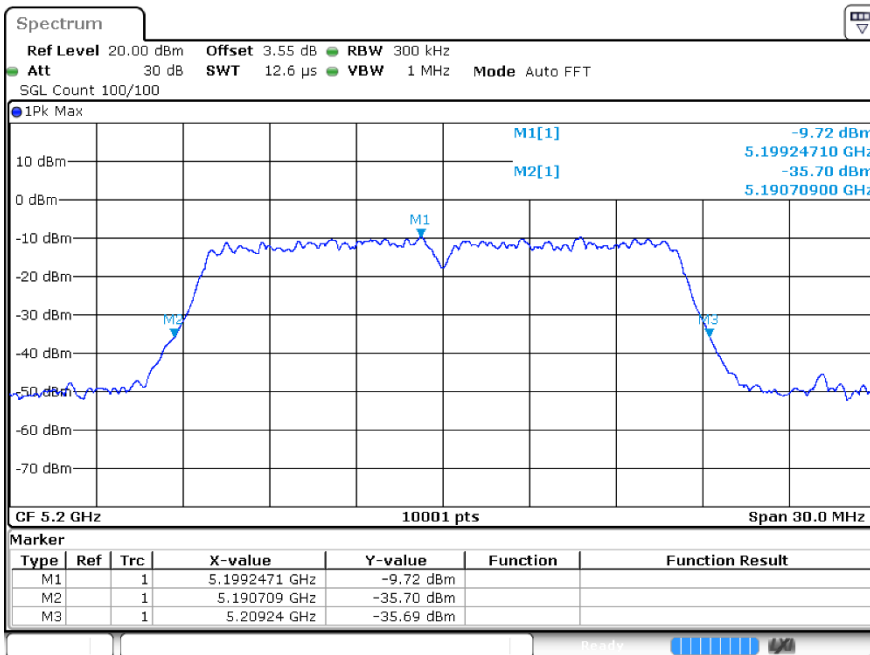


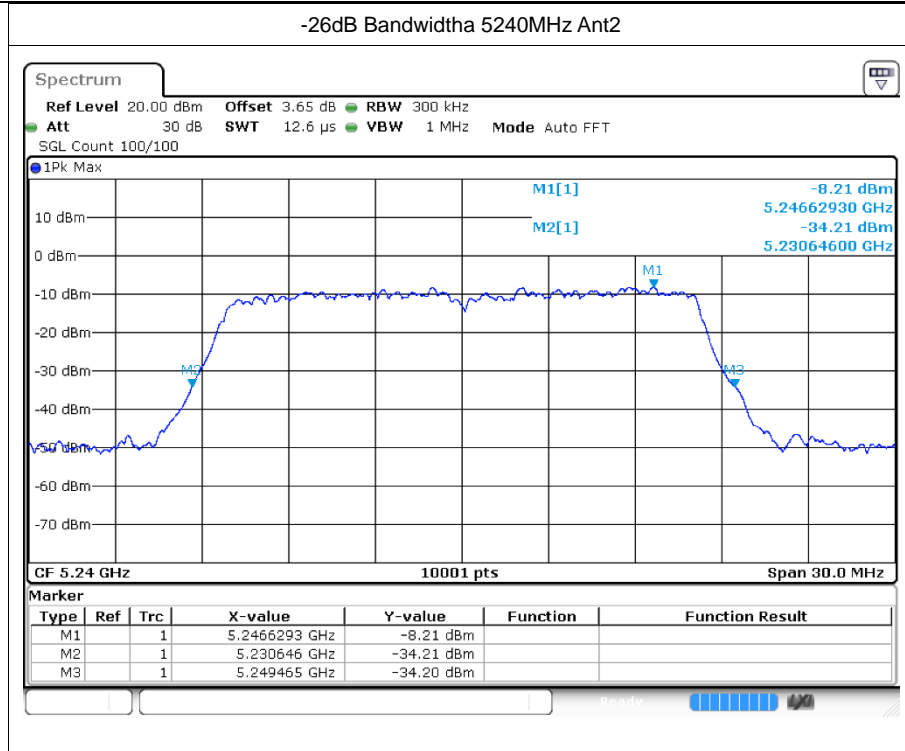


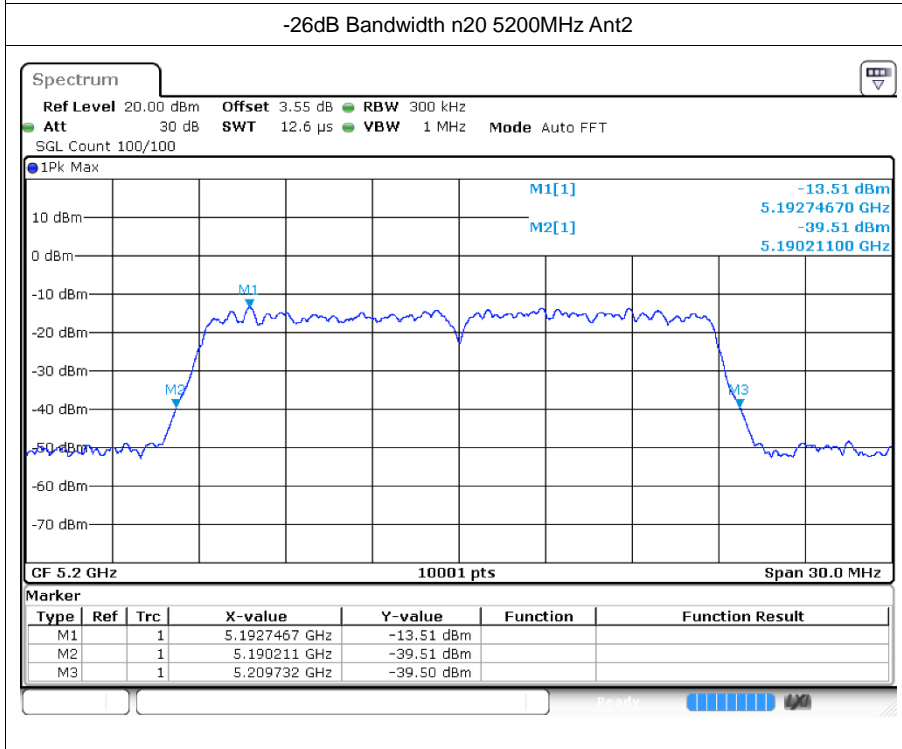
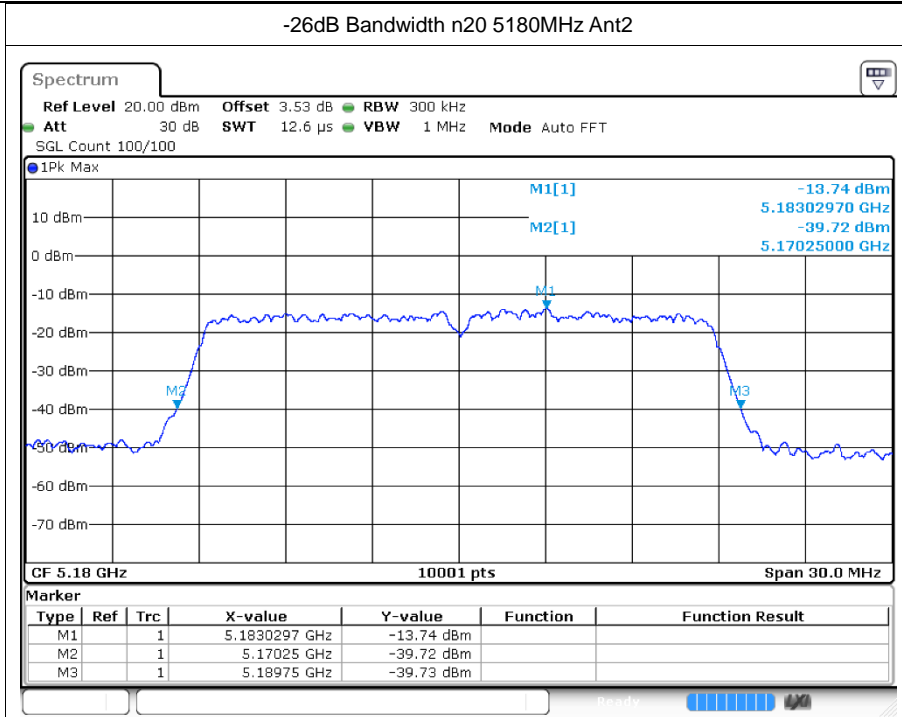
-26dB Bandwidth 5180MHz Ant2

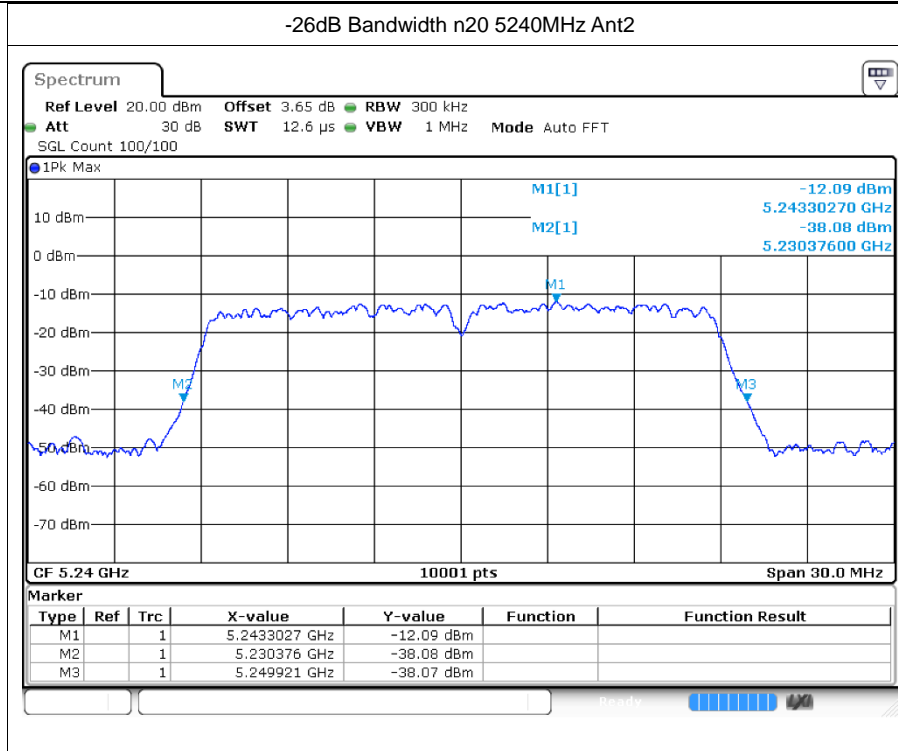


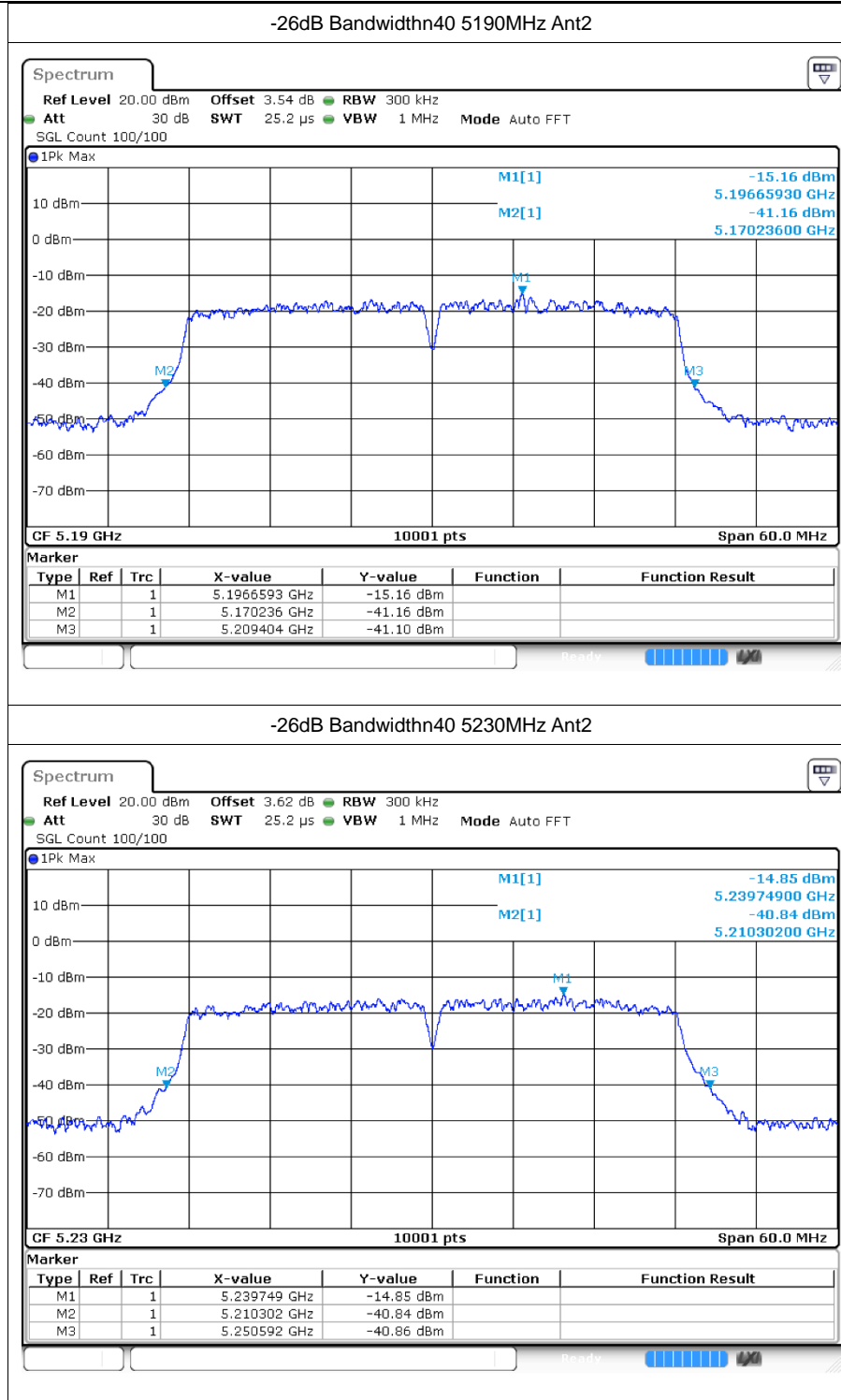
-26dB Bandwidth 5200MHz Ant2

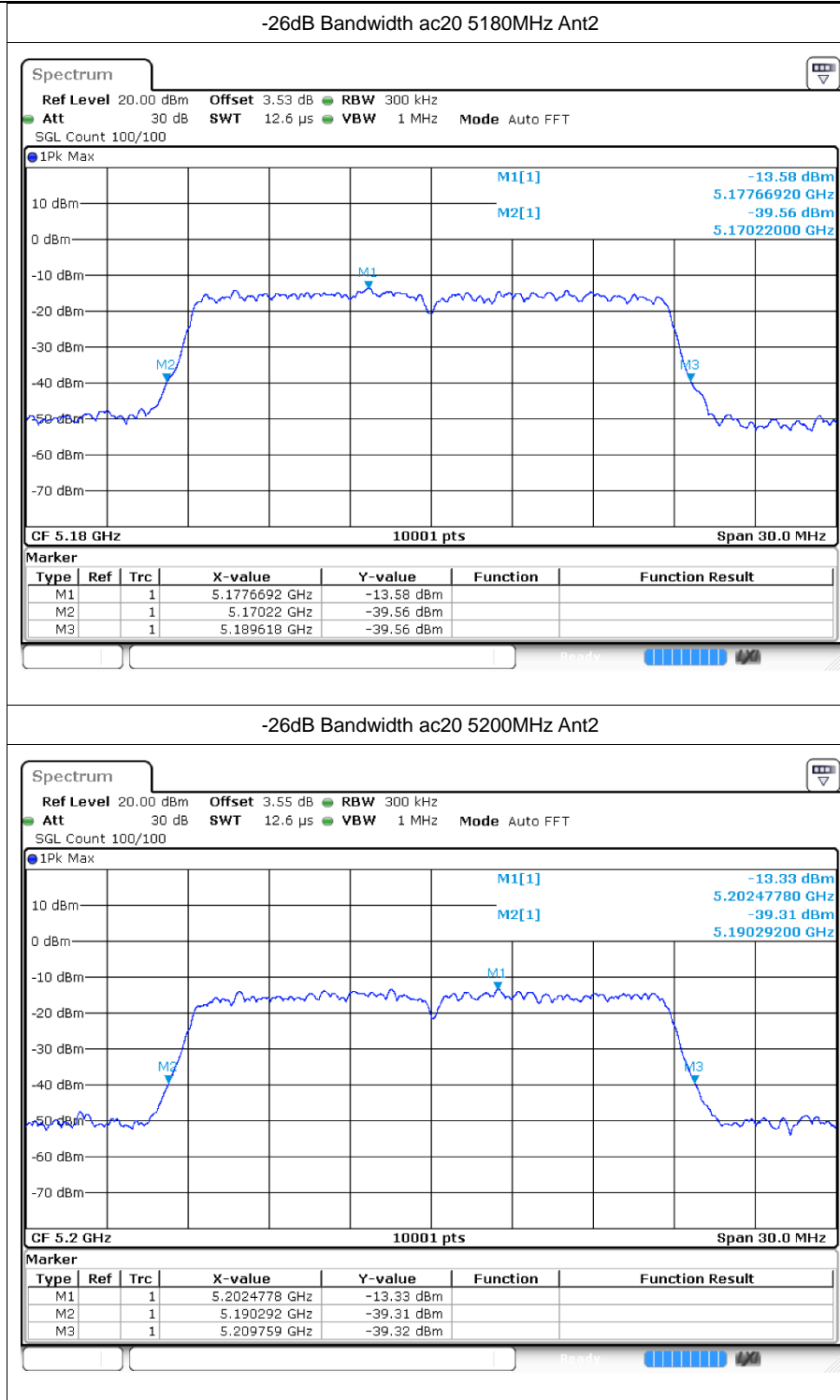


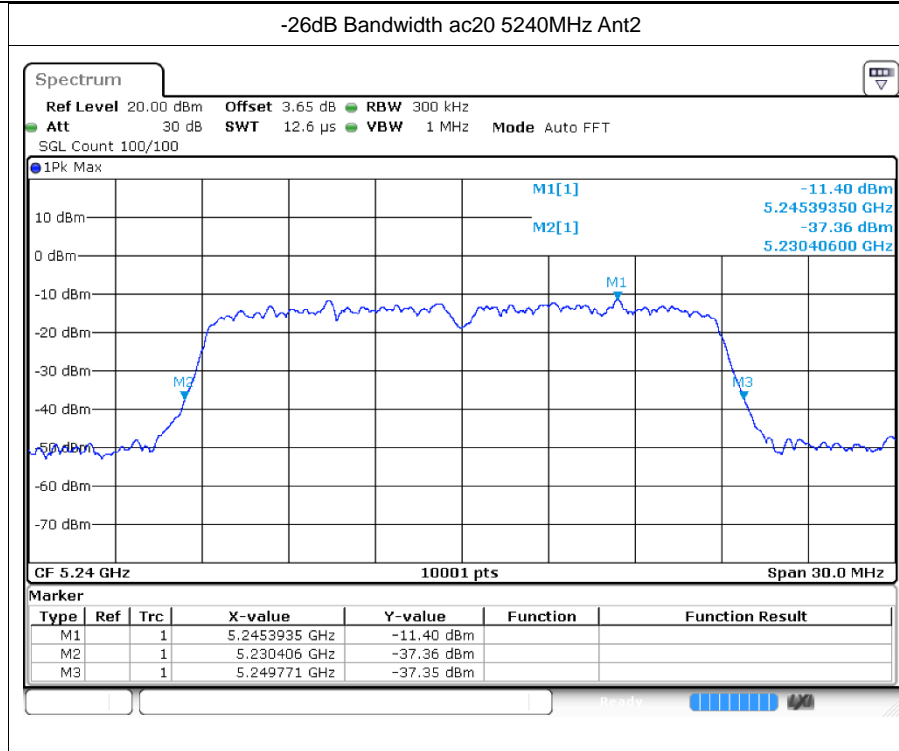






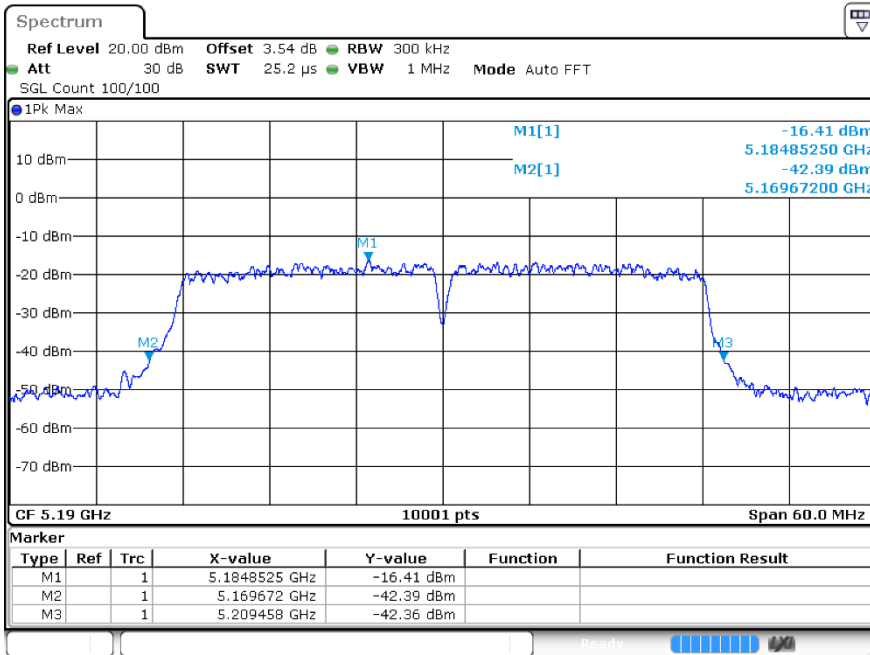




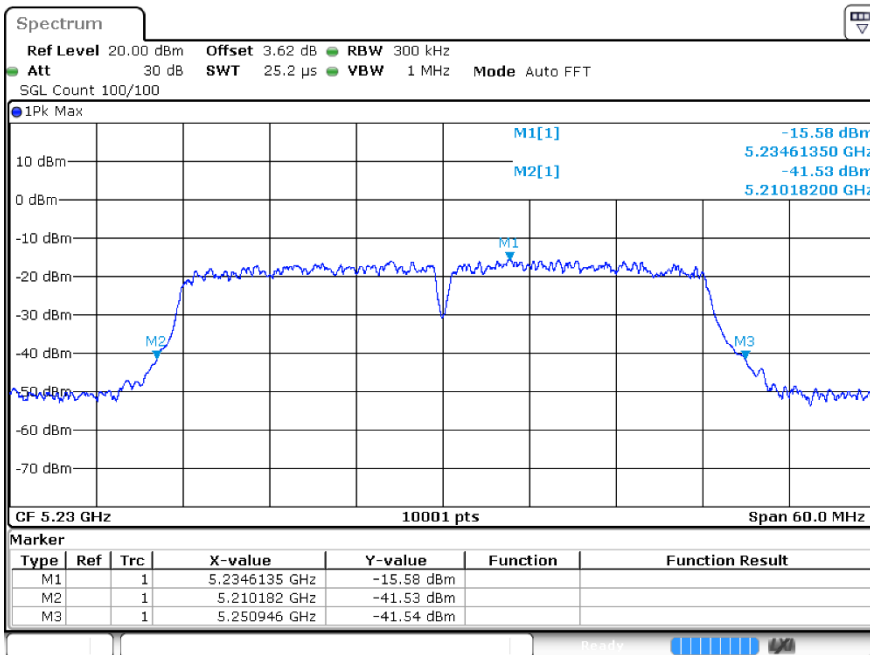




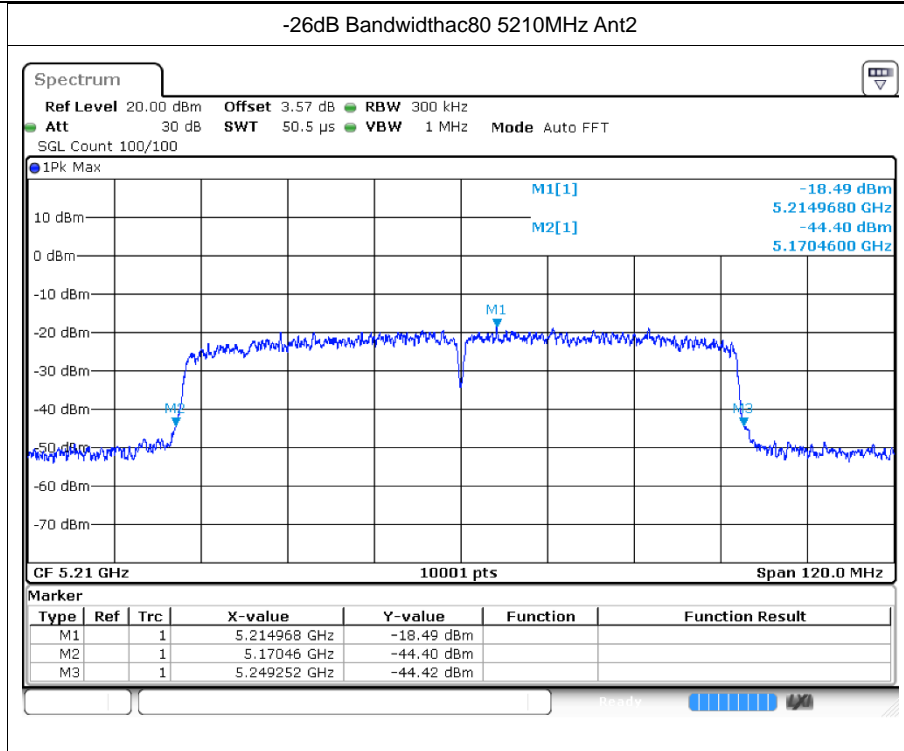
-26dB Bandwidthac40 5190MHz Ant2



-26dB Bandwidthac40 5230MHz Ant2









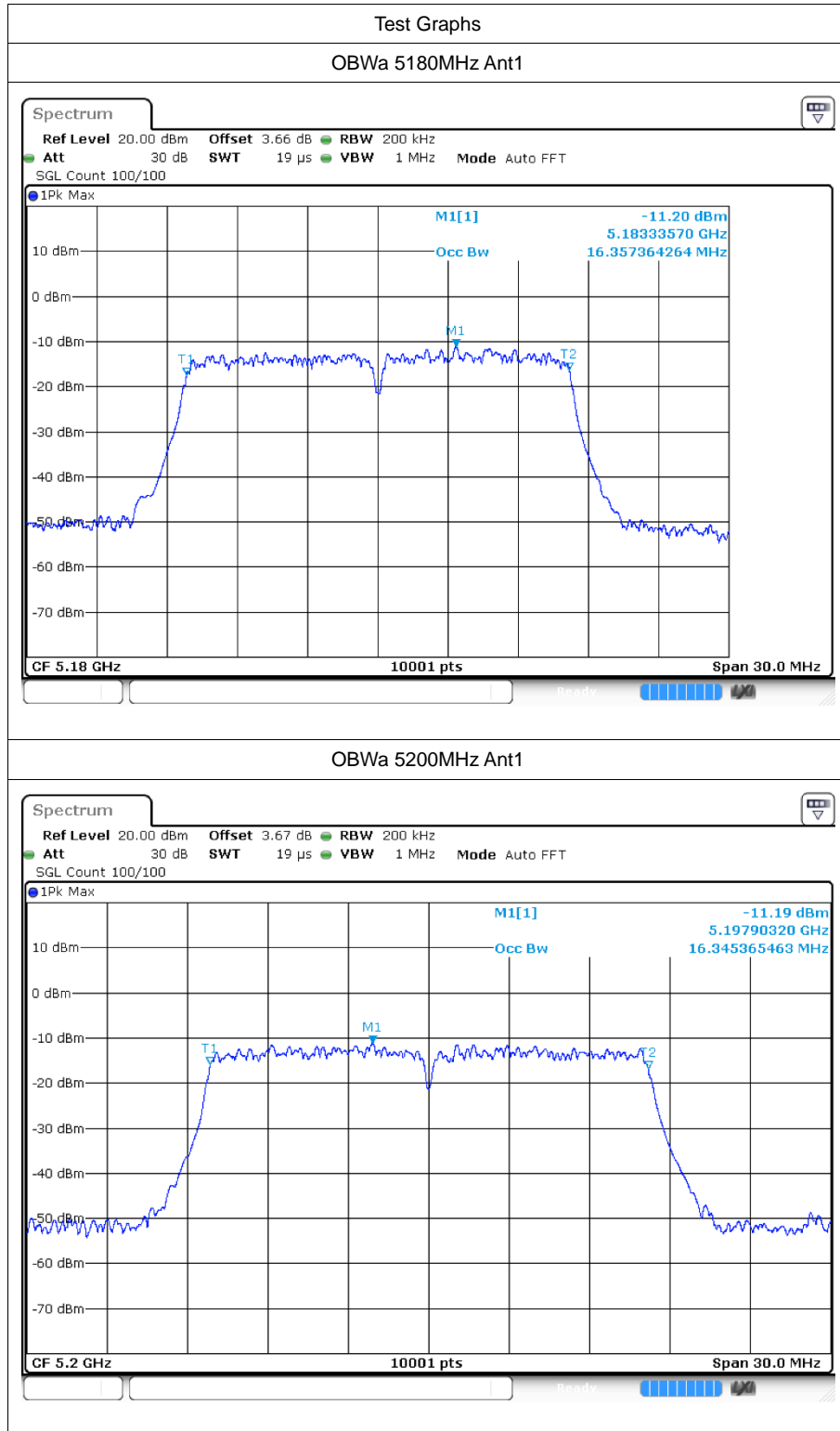
## 4 Occupied Channel Bandwidth

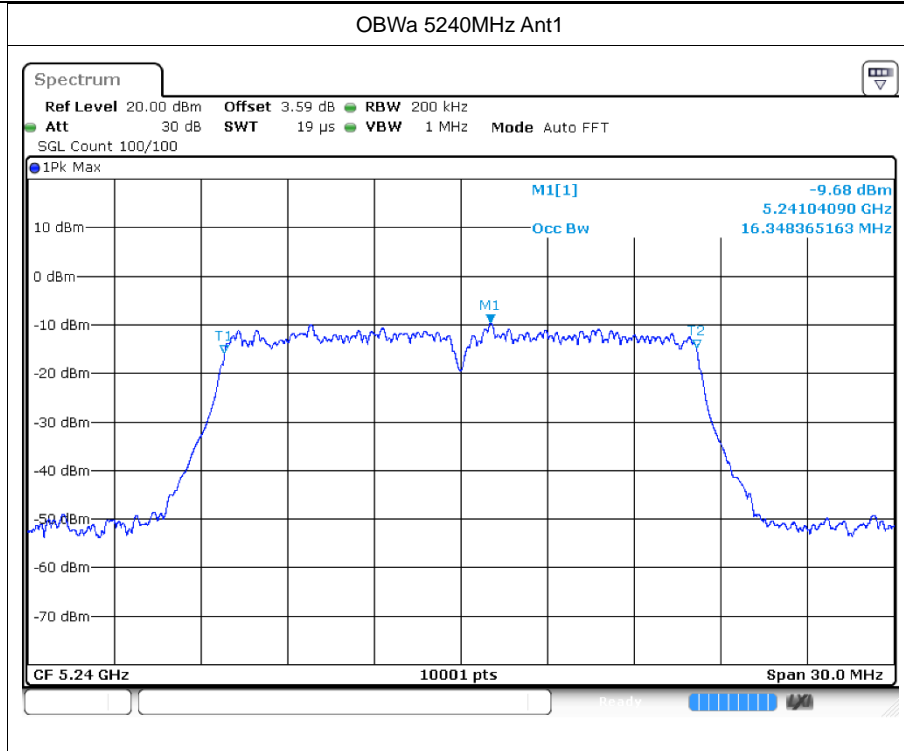
### 4.1 Test Result

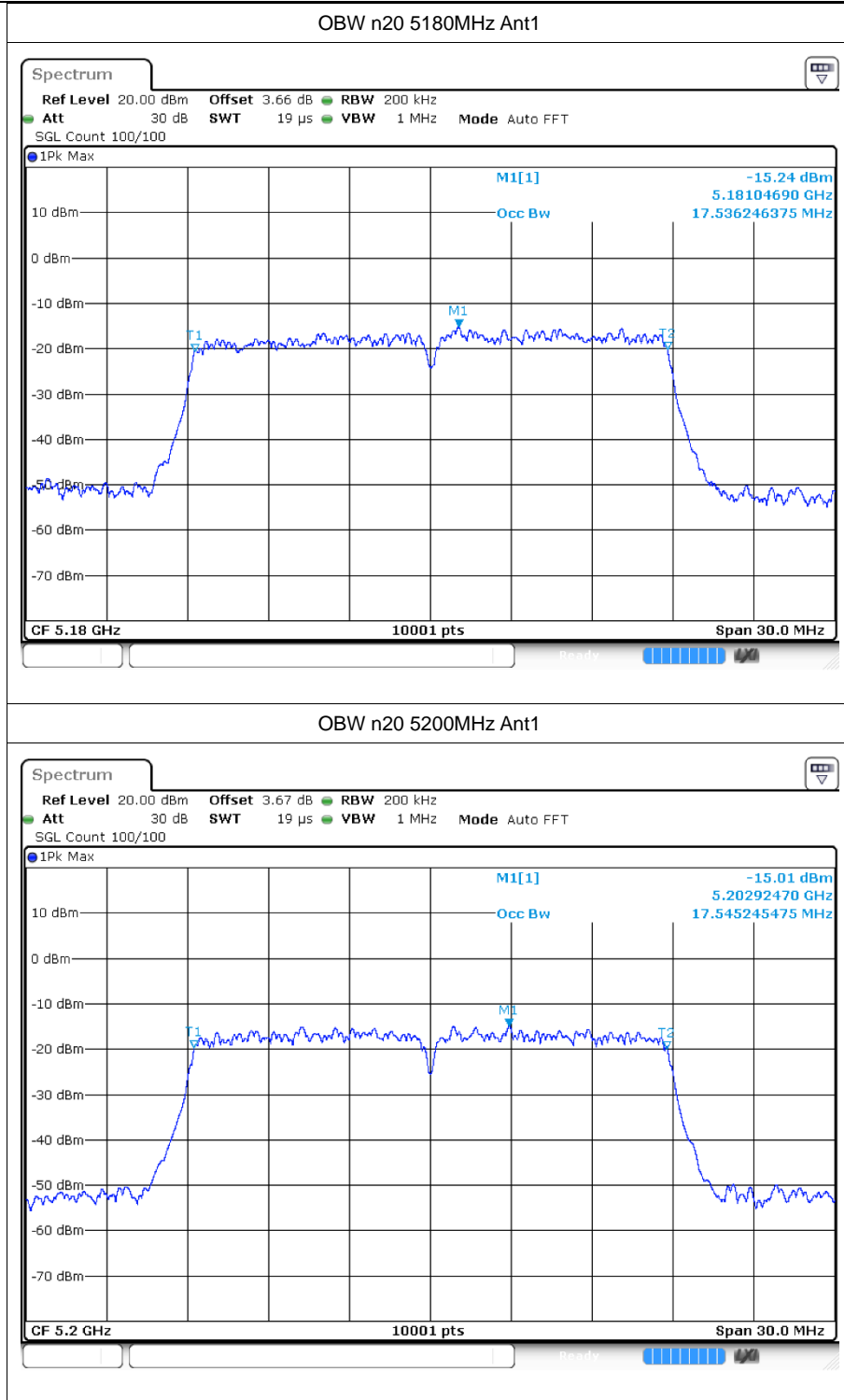
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.357
a	5200	Ant1	16.345
a	5240	Ant1	16.348
n20	5180	Ant1	17.536
n20	5200	Ant1	17.545
n20	5240	Ant1	17.53
n40	5190	Ant1	36.05
n40	5230	Ant1	35.984
ac20	5180	Ant1	17.518
ac20	5200	Ant1	17.515
ac20	5240	Ant1	17.509
ac40	5190	Ant1	36.08
ac40	5230	Ant1	36.062
ac80	5210	Ant1	74.789
a	5180	Ant2	16.321
a	5200	Ant2	16.312
a	5240	Ant2	16.294
n20	5180	Ant2	17.476
n20	5200	Ant2	17.518
n20	5240	Ant2	17.5
n40	5190	Ant2	36.236
n40	5230	Ant2	36.29
ac20	5180	Ant2	17.584
ac20	5200	Ant2	17.506
ac20	5240	Ant2	17.56
ac40	5190	Ant2	36.104
ac40	5230	Ant2	36.14
ac80	5210	Ant2	74.885

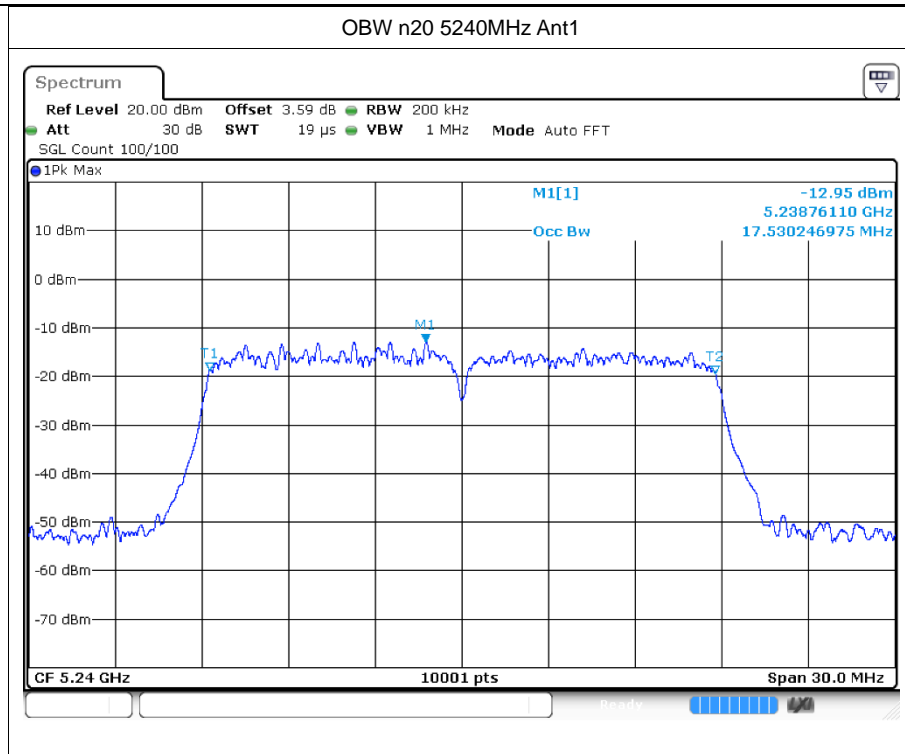


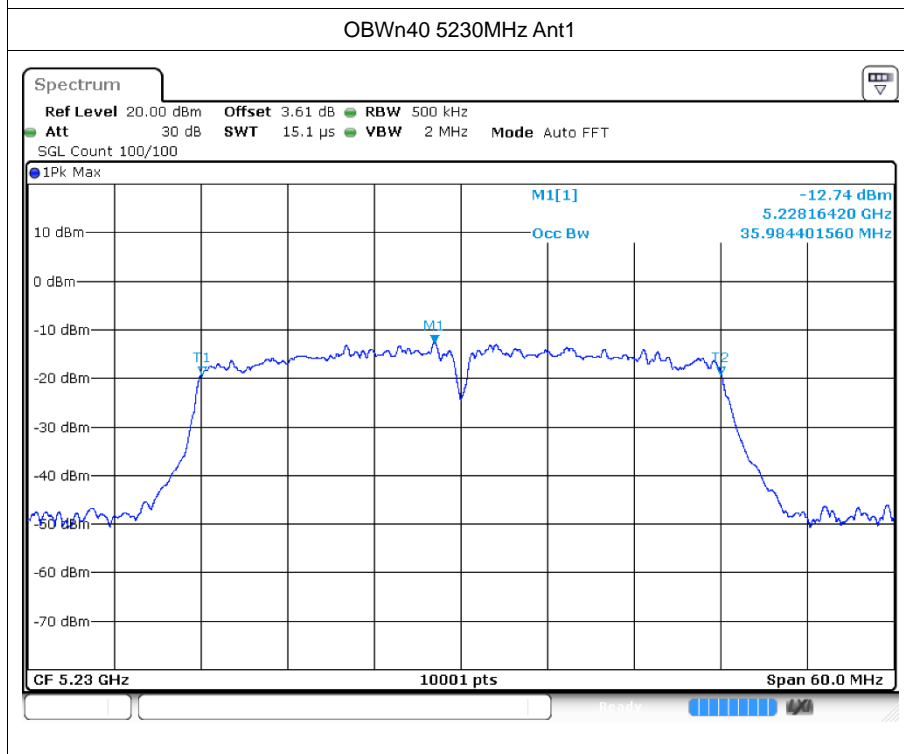
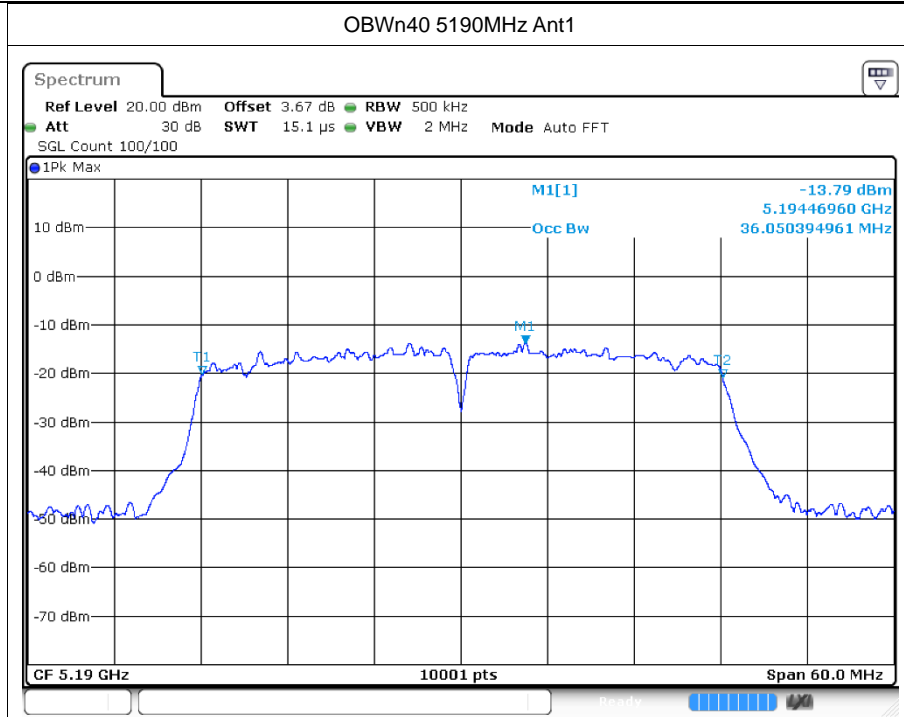
### 4.2 Test Graphs

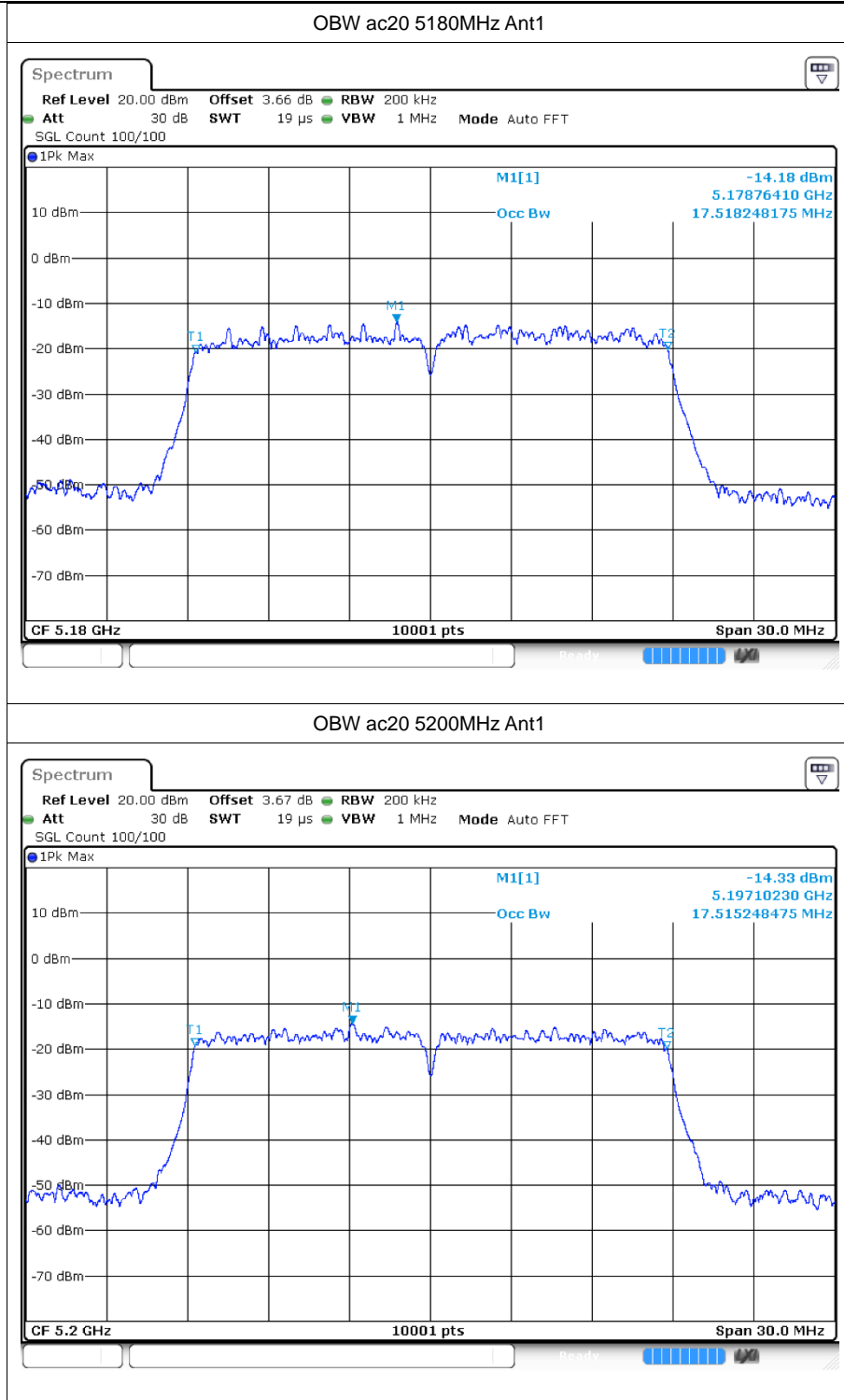




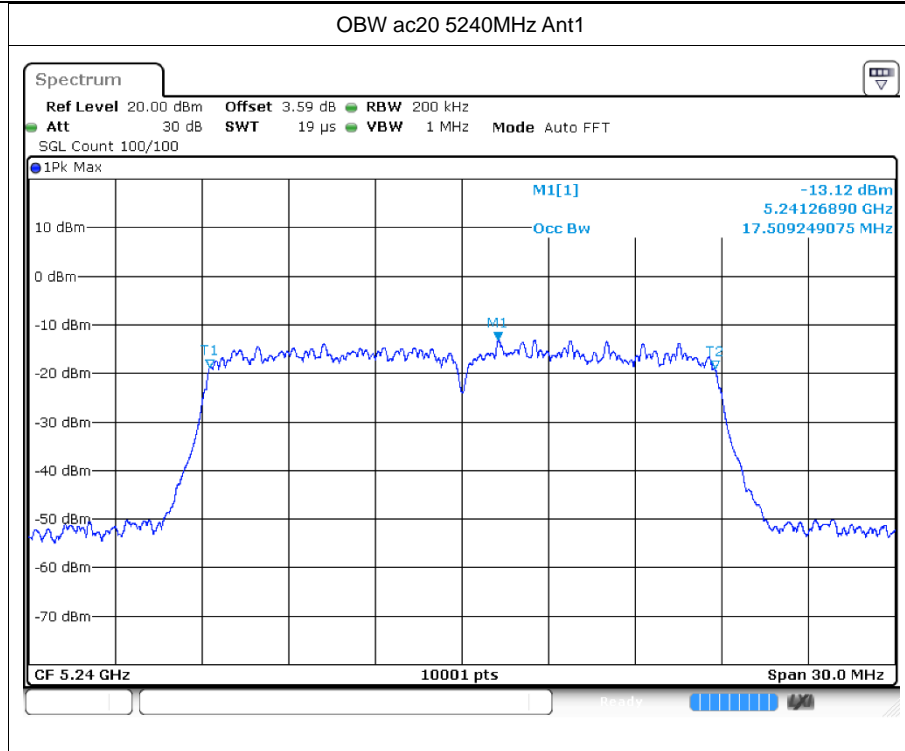


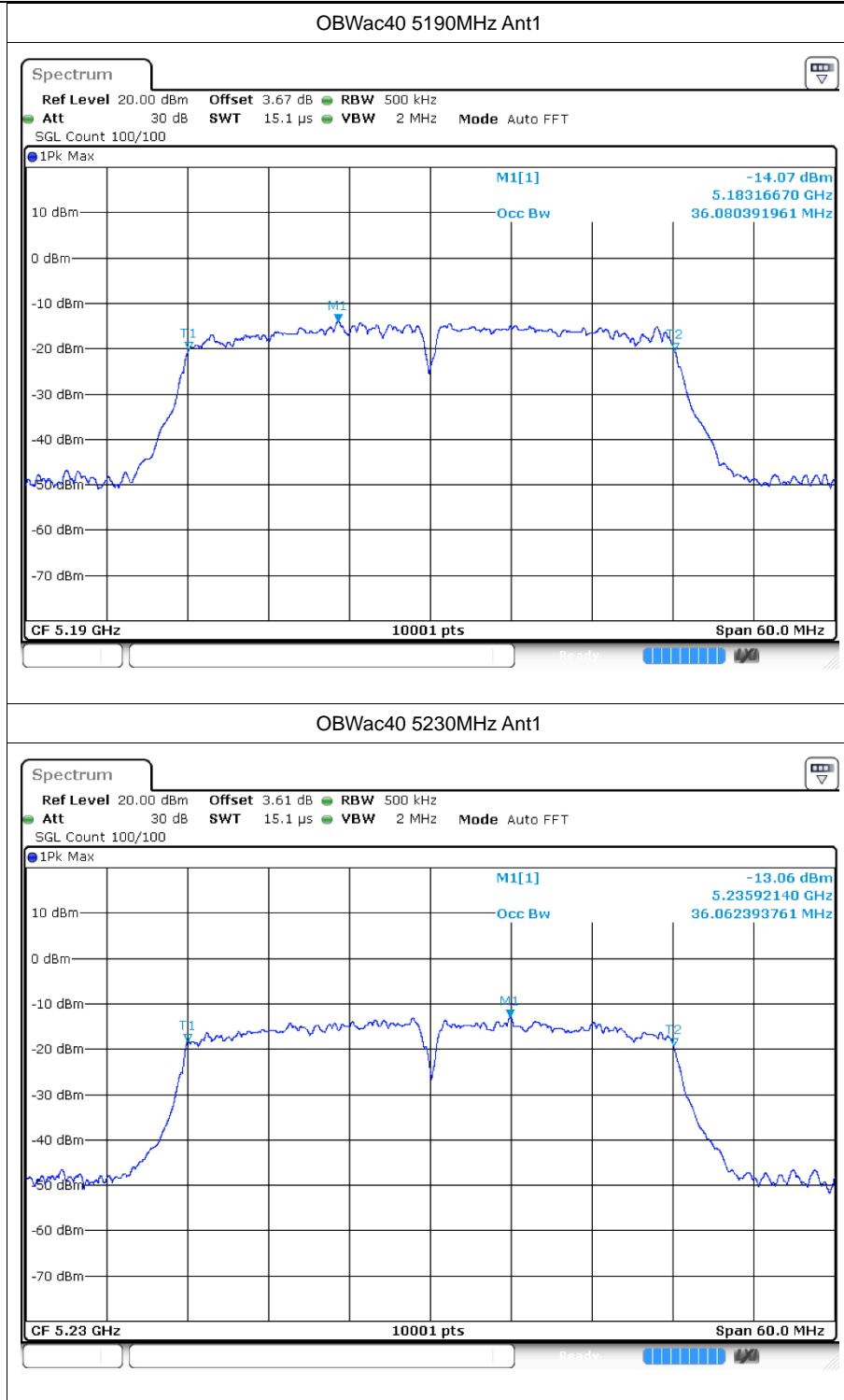


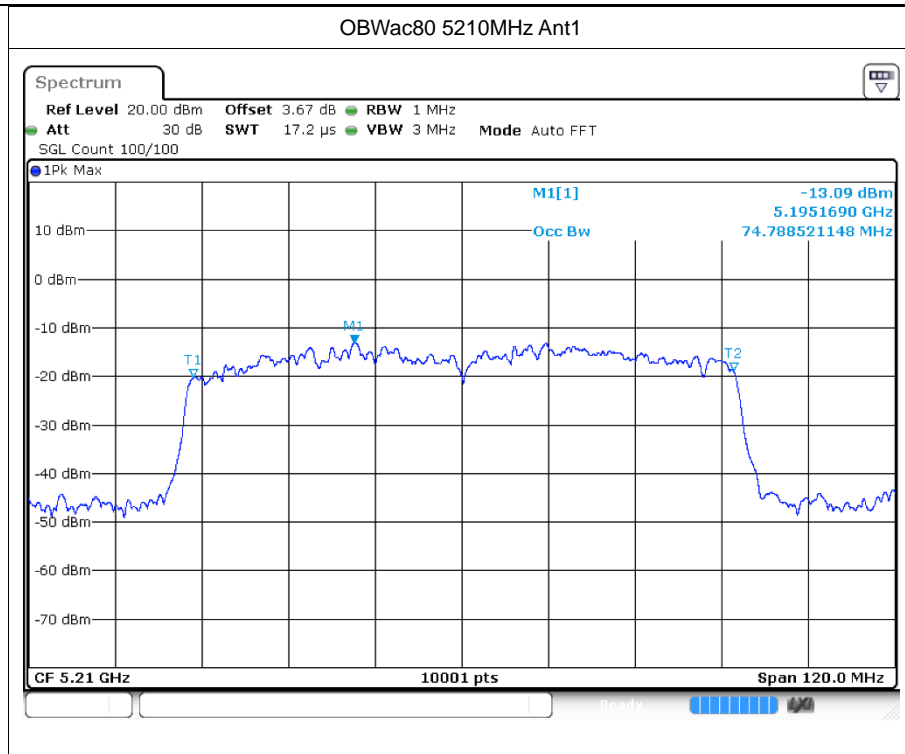


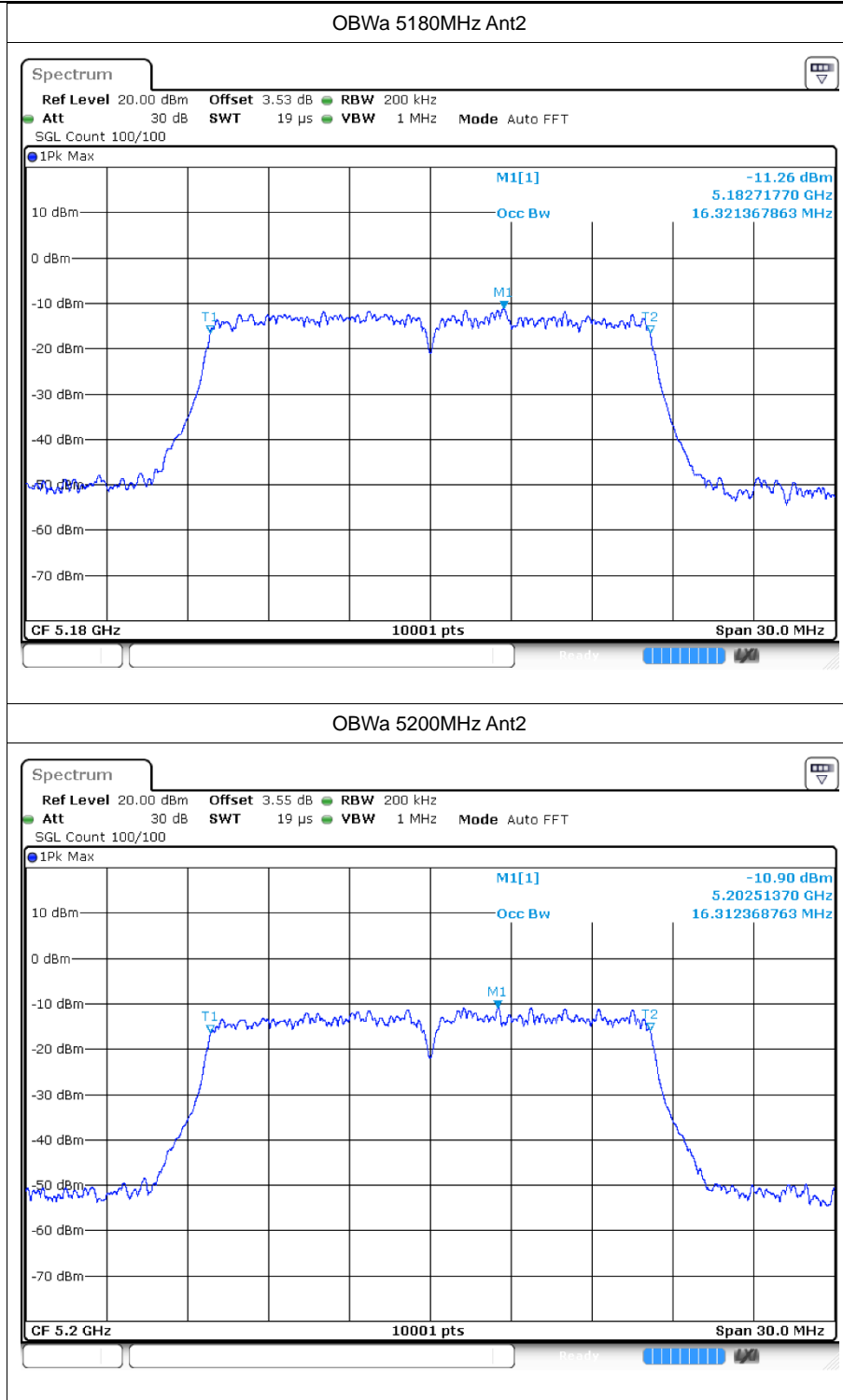


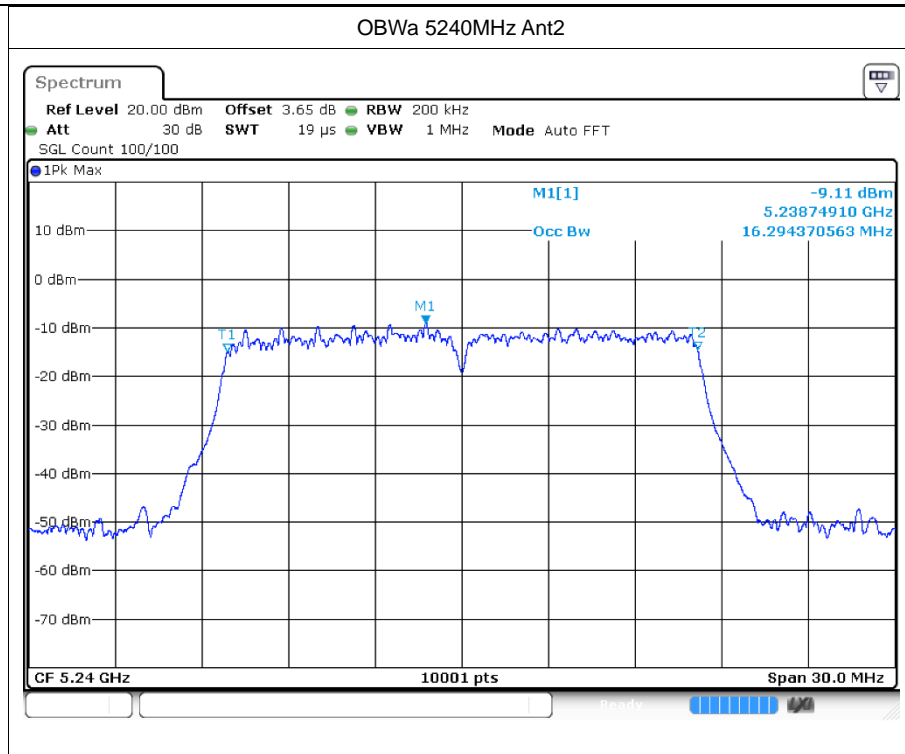


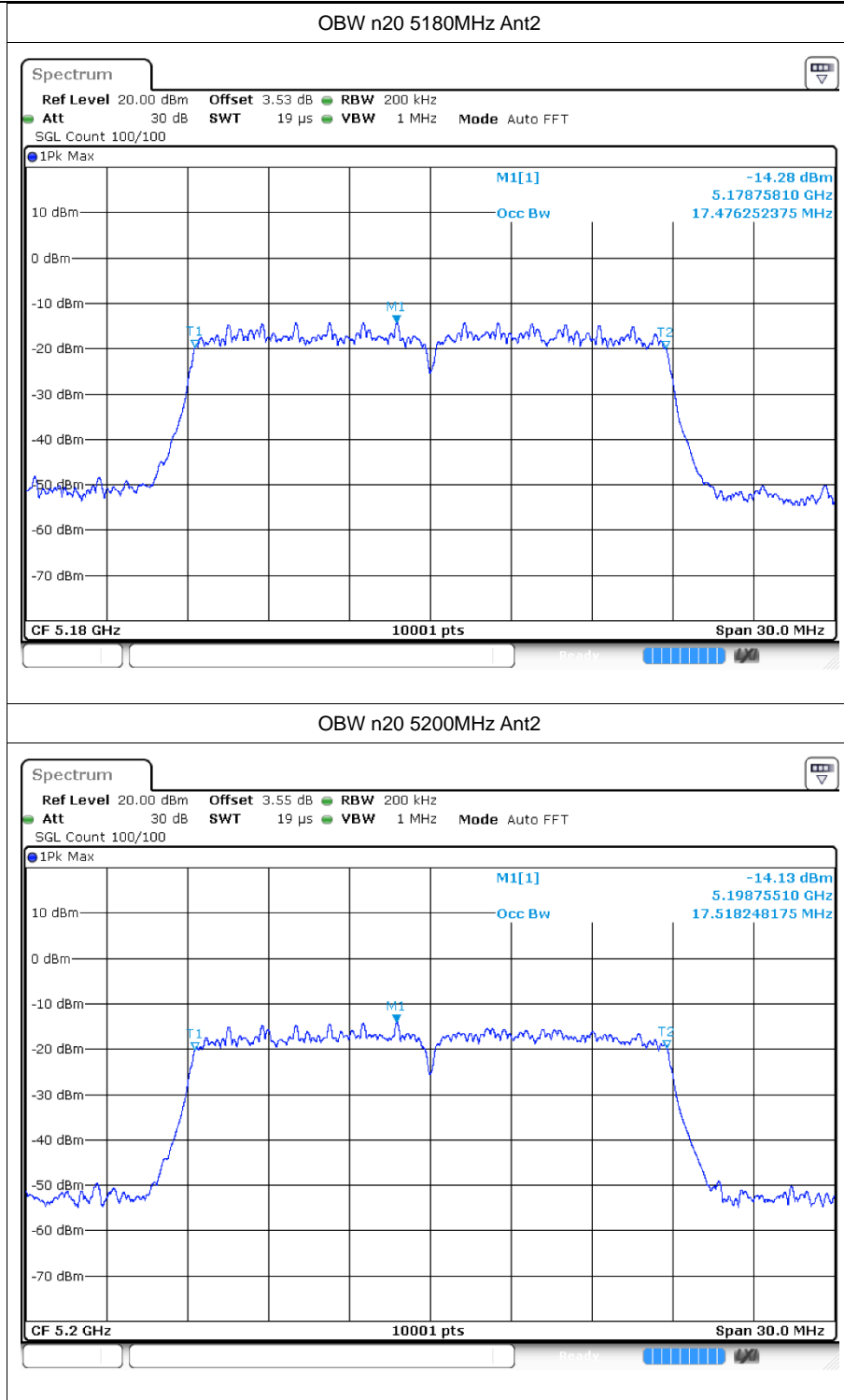


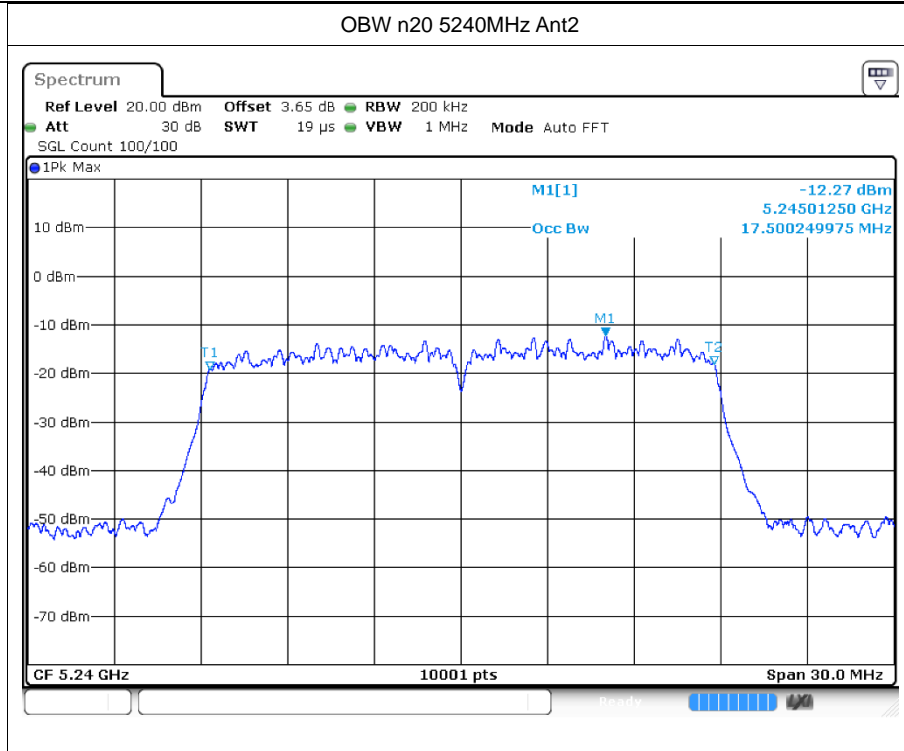


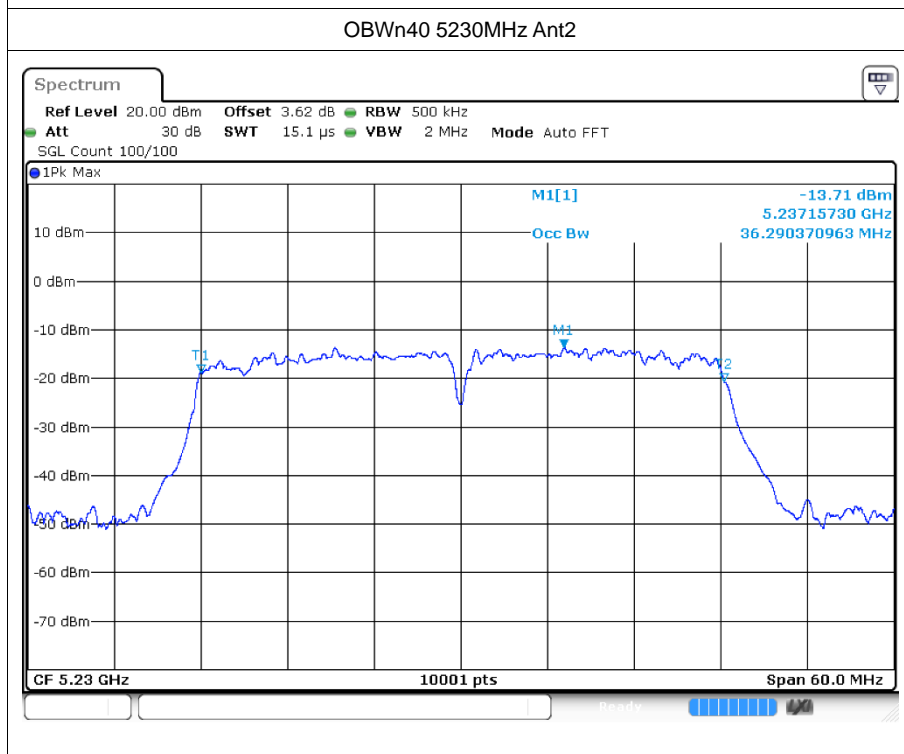
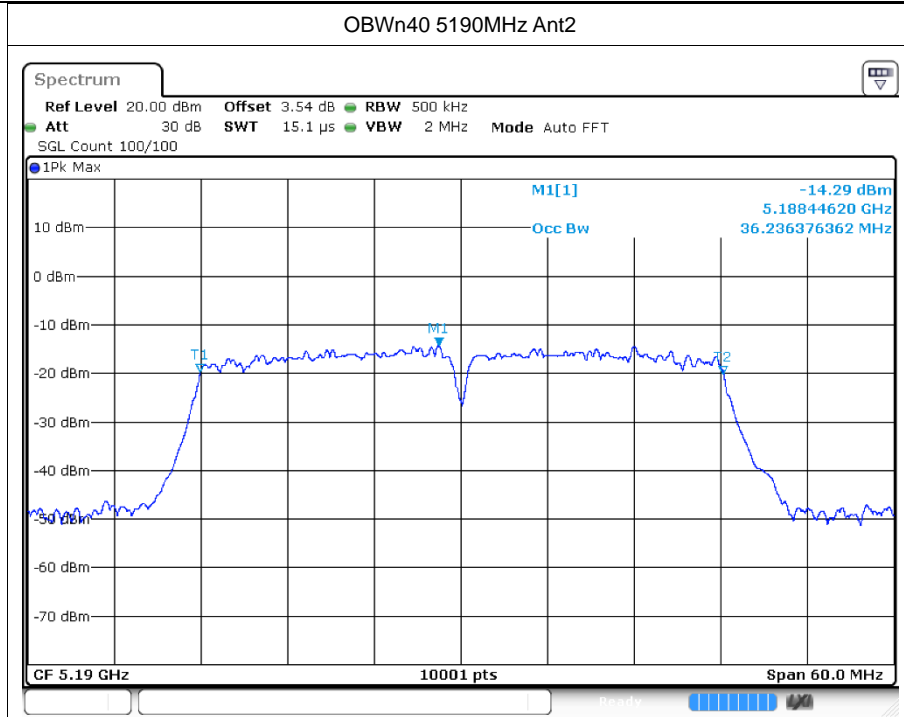




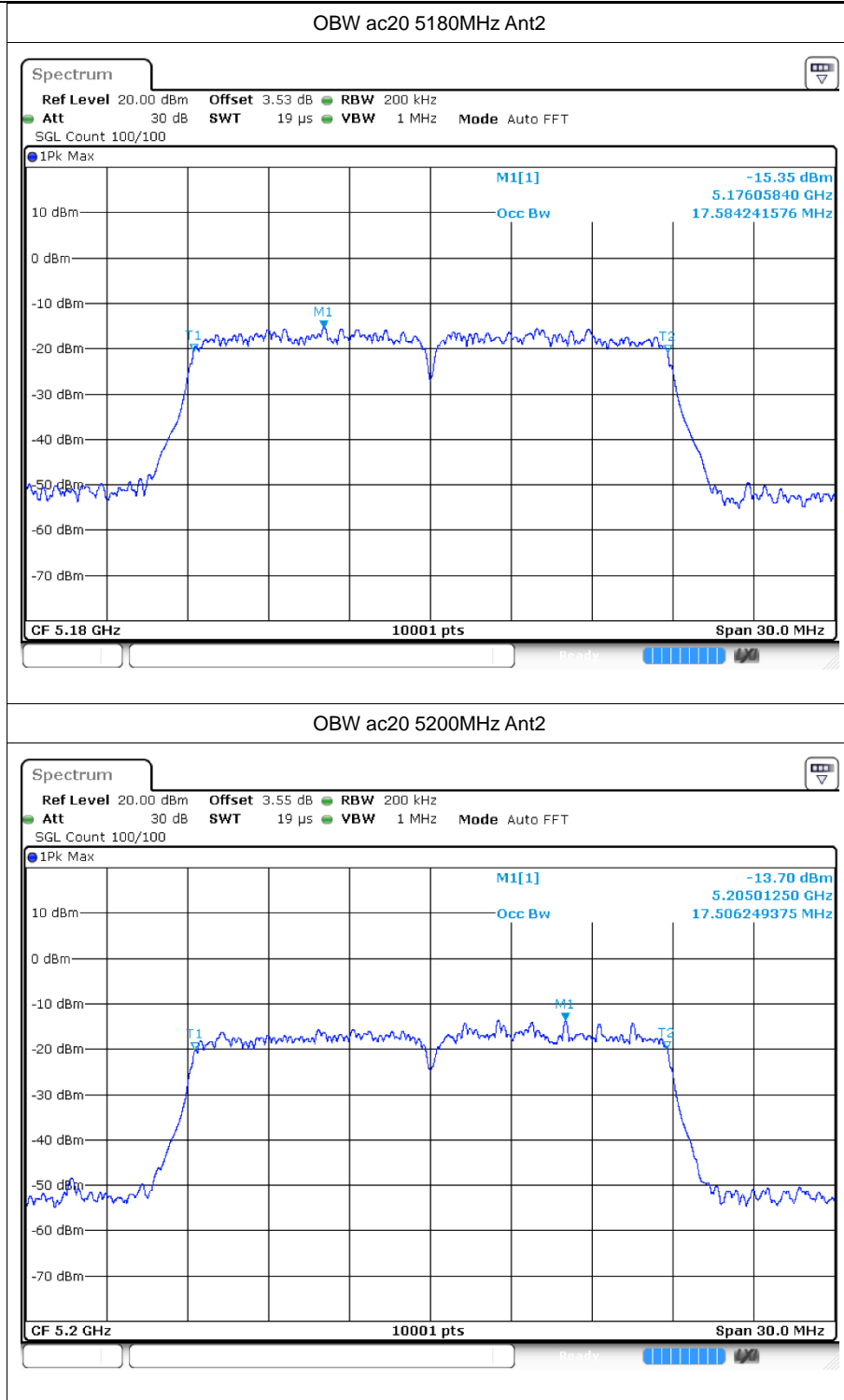


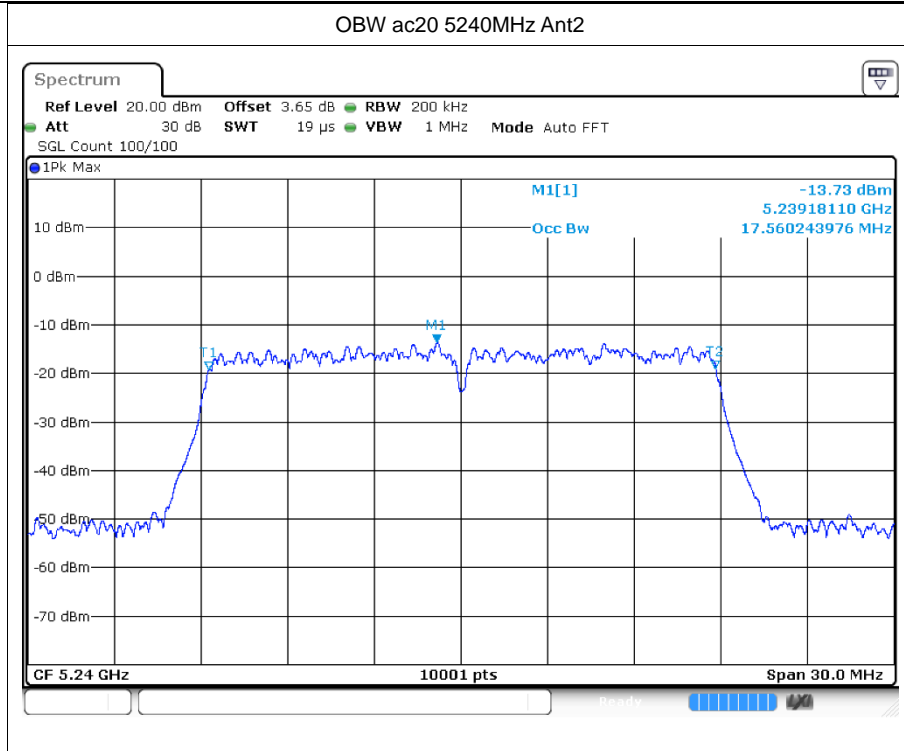


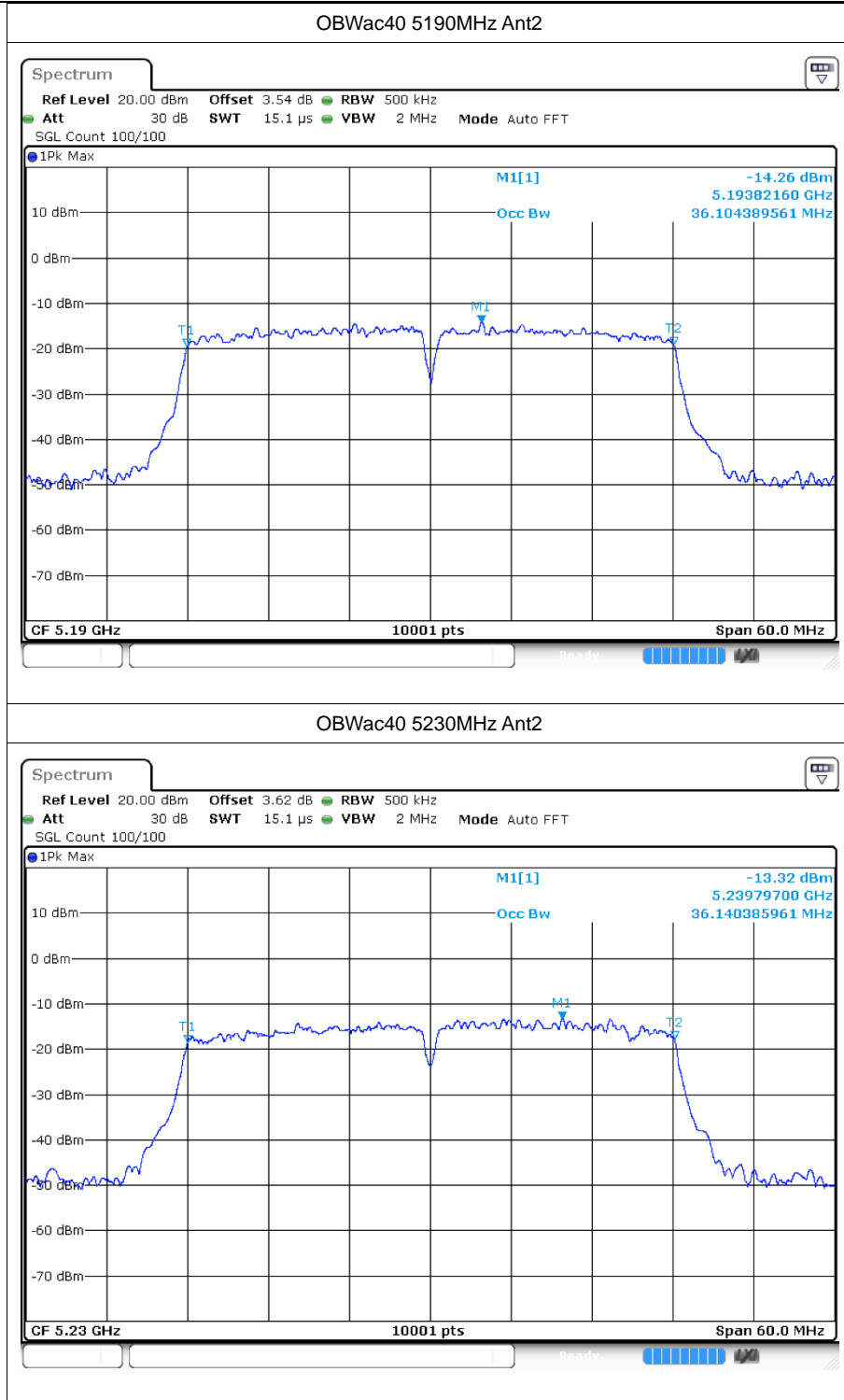


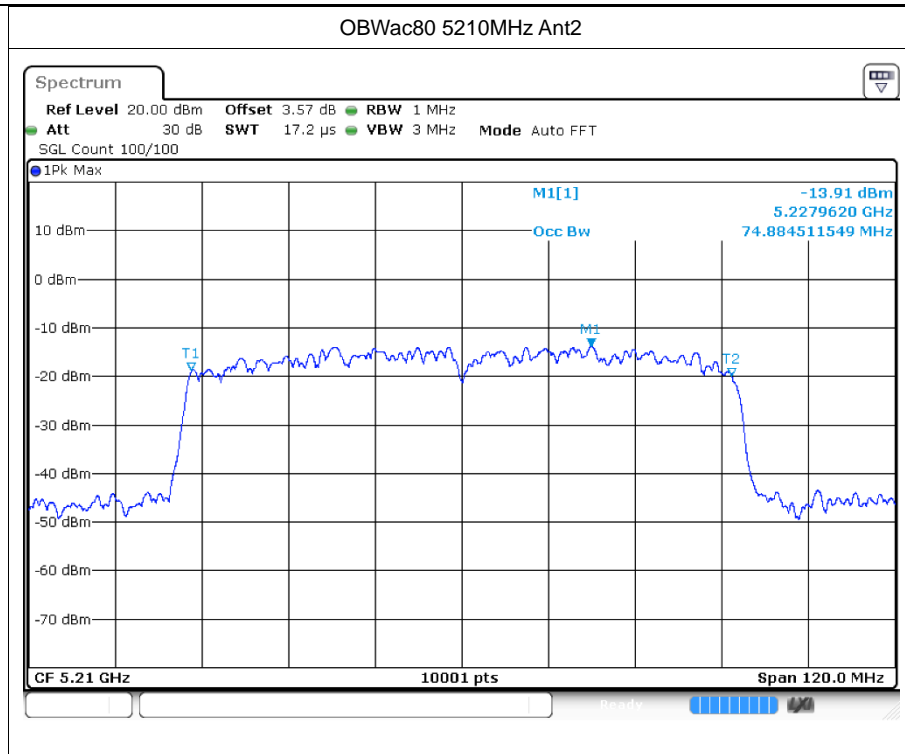














## 5 Maximum Power Spectral Density Level

### 5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-4.31	0.29	-4.02	11	Pass
a	5200	Ant1	-3.51	0.31	-3.20	11	Pass
a	5240	Ant1	-2.99	0.33	-2.66	11	Pass
a	5180	Ant2	-4.2	0.32	-3.88	11	Pass
a	5200	Ant2	-3.49	0.31	-3.18	11	Pass
a	5240	Ant2	-2.08	0.31	-1.77	11	Pass
n20	5180	Ant1	-7.81	0.31	-7.50	11	Pass
n20	5180	Ant2	-8.43	0.33	-8.10	11	Pass
n20	5180	Sum	-5.1	0.33	-4.77	10.99	Pass
n20	5200	Ant1	-7.26	0.34	-6.92	11	Pass
n20	5200	Ant2	-7.7	0.35	-7.35	11	Pass
n20	5200	Sum	-4.46	0.35	-4.11	10.99	Pass
n20	5240	Ant1	-7.28	0.33	-6.95	11	Pass
n20	5240	Ant2	-6.68	0.33	-6.35	11	Pass
n20	5240	Sum	-3.96	0.33	-3.63	10.99	Pass
n40	5190	Ant1	-10.34	0.65	-9.69	11	Pass
n40	5190	Ant2	-10.62	0.66	-9.96	11	Pass
n40	5190	Sum	-7.47	0.66	-6.81	10.99	Pass
n40	5230	Ant1	-9.41	0.65	-8.76	11	Pass
n40	5230	Ant2	-9.62	0.66	-8.96	11	Pass
n40	5230	Sum	-6.5	0.66	-5.84	10.99	Pass
ac20	5180	Ant1	-8.2	0.38	-7.82	11	Pass
ac20	5180	Ant2	-8.22	0.39	-7.83	11	Pass
ac20	5180	Sum	-5.2	0.39	-4.81	10.99	Pass
ac20	5200	Ant1	-7.29	0.35	-6.94	11	Pass
ac20	5200	Ant2	-7.6	0.36	-7.24	11	Pass
ac20	5200	Sum	-4.43	0.36	-4.07	10.99	Pass
ac20	5240	Ant1	-6.84	0.37	-6.47	11	Pass
ac20	5240	Ant2	-6.41	0.38	-6.03	11	Pass
ac20	5240	Sum	-3.61	0.38	-3.23	10.99	Pass
ac40	5190	Ant1	-10.03	0.77	-9.26	11	Pass
ac40	5190	Ant2	-10.5	0.72	-9.78	11	Pass
ac40	5190	Sum	-7.25	0.72	-6.53	10.99	Pass
ac40	5230	Ant1	-9.26	0.76	-8.50	11	Pass
ac40	5230	Ant2	-9.76	0.78	-8.98	11	Pass
ac40	5230	Sum	-6.49	0.78	-5.71	10.99	Pass



ac80	5210	Ant1	-12.24	1.32	-10.92	11	Pass
ac80	5210	Ant2	-13.31	1.32	-11.99	11	Pass
ac80	5210	Sum	-9.73	1.32	-8.41	10.99	Pass

## 5.2 Test Graphs

