



Appendix D

RF Test Data for B1-B3WIFI(Conducted Measurement)

Product Name: EBOOK READER

Trade Mark: HQ MEEBOOK

Test Model: MEEBOOK M7

Environmental Conditions

Temperature:	25.2°C
Relative Humidity:	51.2%
ATM Pressure:	101Kpa
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.....	5
2 Maximum Conducted Output Power	28
2.1 Test Result.....	28
3 -26dB Bandwidth	30
3.1 Test Result.....	30
3.2 Test Graphs.....	32
4 Occupied Channel Bandwidth	55
4.1 Test Result.....	55
4.2 Test Graphs.....	57
5 Maximum Power Spectral Density Level.....	80
5.1 Test Result.....	80
5.2 Test Graphs.....	82
6 Frequency Stability.....	105
6.1 Test Result.....	105
7 Conducted RF Spurious Emission	116
7.1 Test Result.....	116
7.2 Test Graphs.....	118
8 Restrict Band.....	141
8.1 Test Result.....	141
8.2 Test Graphs.....	146



1 Duty Cycle

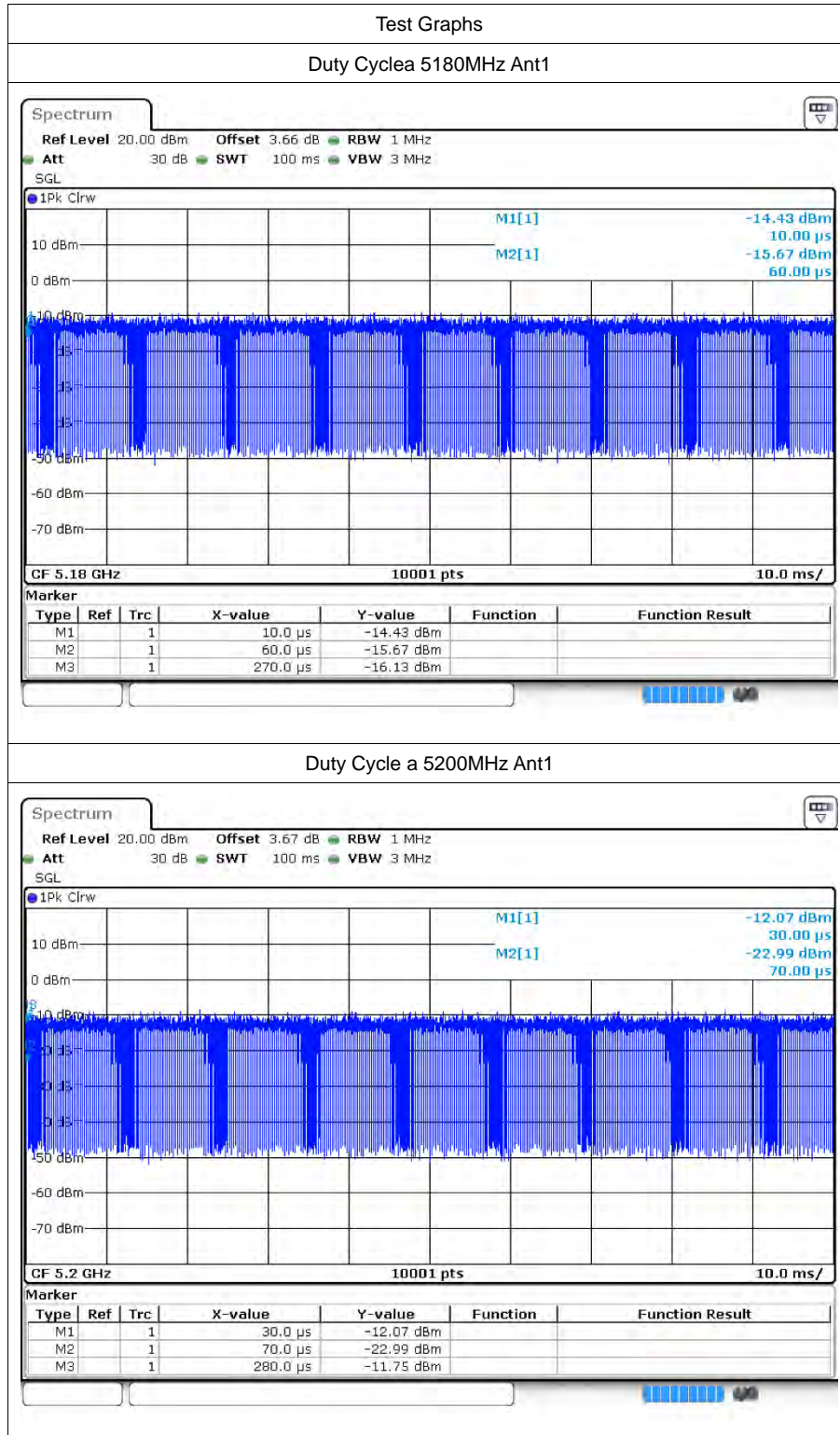
1.1 Test Result

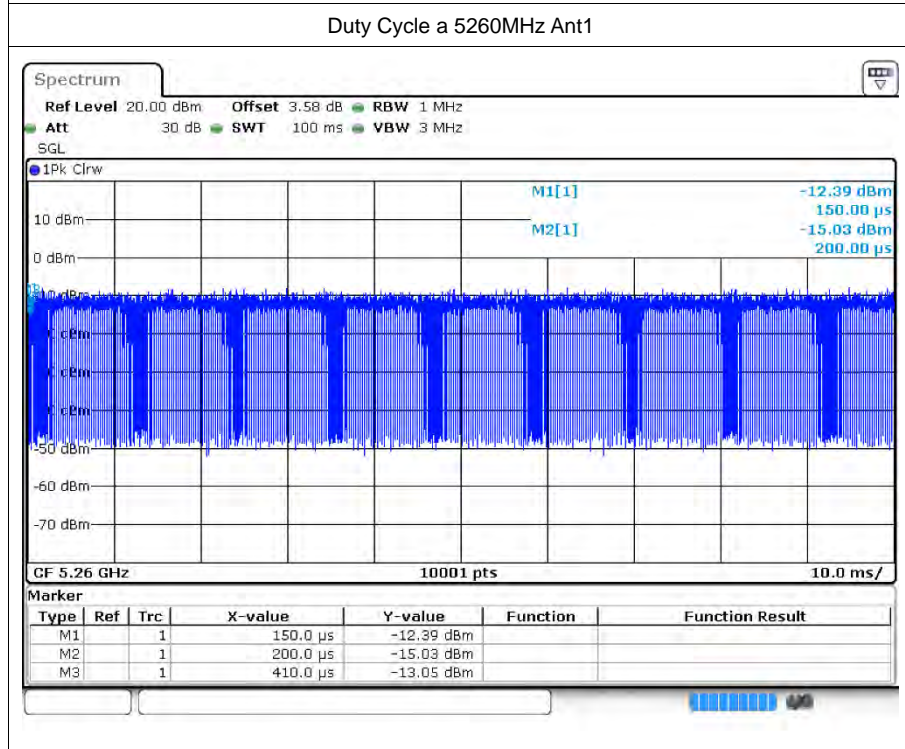
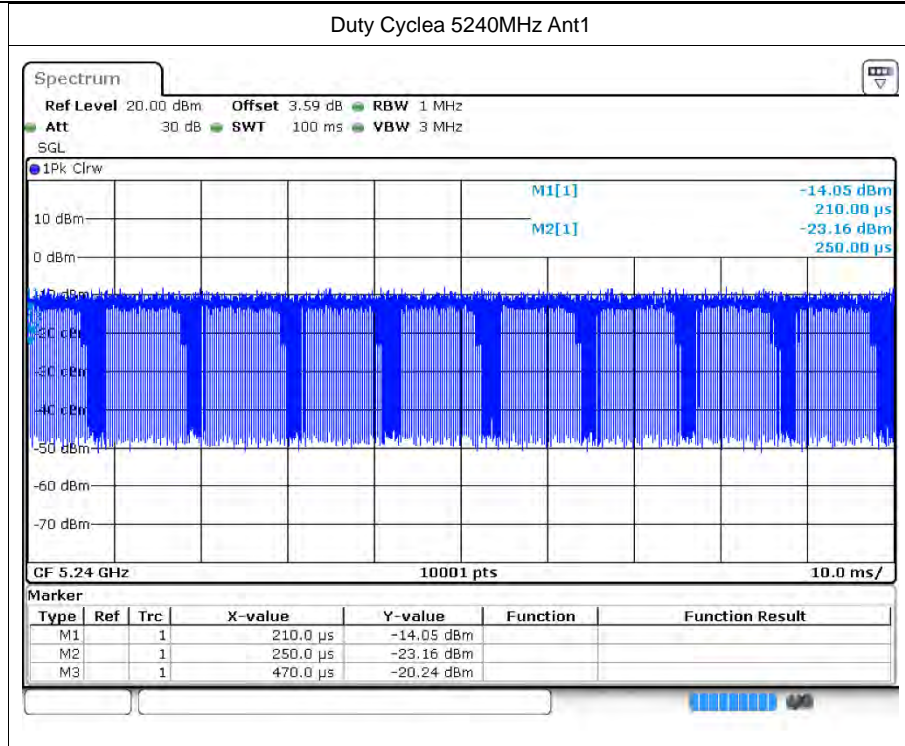
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.67	0.62	4.76
a	5200	Ant1	86.69	0.62	4.76
a	5240	Ant1	86.79	0.62	4.55
a	5260	Ant1	86.76	0.62	4.76
a	5280	Ant1	86.75	0.62	4.76
a	5320	Ant1	86.75	0.62	4.55
a	5500	Ant1	86.74	0.62	4.76
a	5600	Ant1	86.78	0.62	4.55
a	5700	Ant1	86.84	0.61	4.55
n20	5180	Ant1	87.33	0.59	4.17
n20	5200	Ant1	87.37	0.59	4.35
n20	5240	Ant1	87.38	0.59	4.35
n20	5260	Ant1	87.37	0.59	4.35
n20	5280	Ant1	87.4	0.58	4.17
n20	5320	Ant1	87.4	0.58	4.17
n20	5500	Ant1	87.36	0.59	4.35
n20	5600	Ant1	87.37	0.59	4.17
n20	5700	Ant1	87.48	0.58	4.17
n40	5190	Ant1	76.72	1.15	4.76
n40	5230	Ant1	76.7	1.15	4.55
n40	5270	Ant1	76.74	1.15	4.76
n40	5310	Ant1	76.73	1.15	4.55
n40	5510	Ant1	76.59	1.16	4.55
n40	5670	Ant1	76.96	1.14	4.76
ac20	5180	Ant1	86.88	0.61	4.55
ac20	5200	Ant1	86.98	0.61	4.55
ac20	5240	Ant1	87.02	0.6	4.55
ac20	5260	Ant1	86.98	0.61	4.35
ac20	5280	Ant1	86.99	0.61	4.55
ac20	5320	Ant1	87.03	0.6	4.35
ac20	5500	Ant1	87	0.6	4.35
ac20	5600	Ant1	87.03	0.6	4.55
ac20	5700	Ant1	87.03	0.6	4.55
ac40	5190	Ant1	74.92	1.25	5.26
ac40	5230	Ant1	75.01	1.25	5.26
ac40	5310	Ant1	75.1	1.24	5
ac40	5270	Ant1	75.14	1.24	5.26

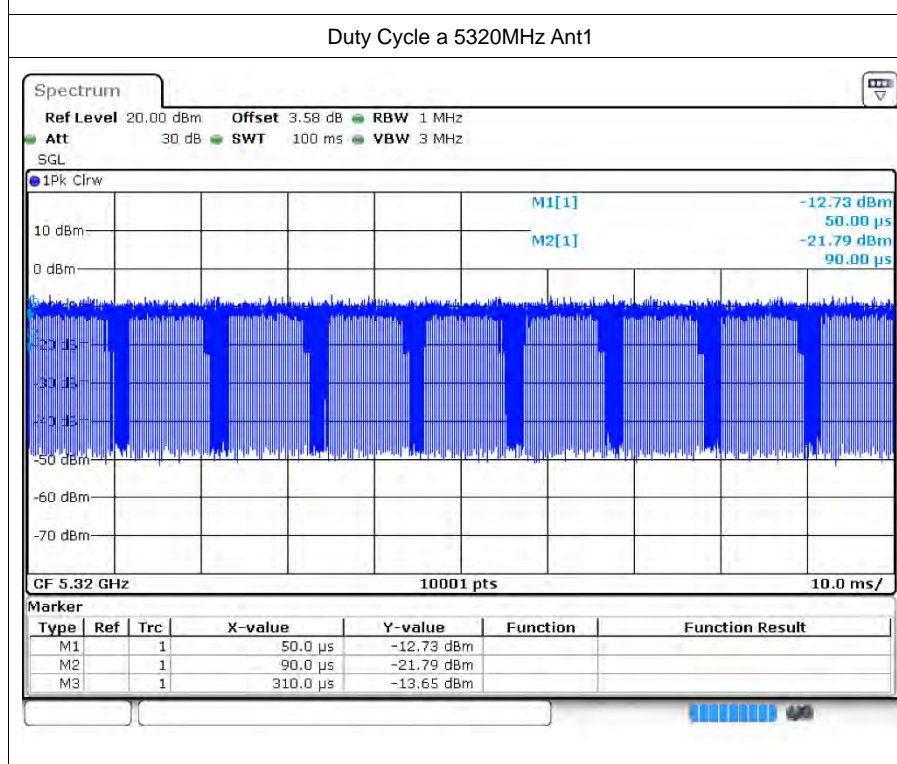
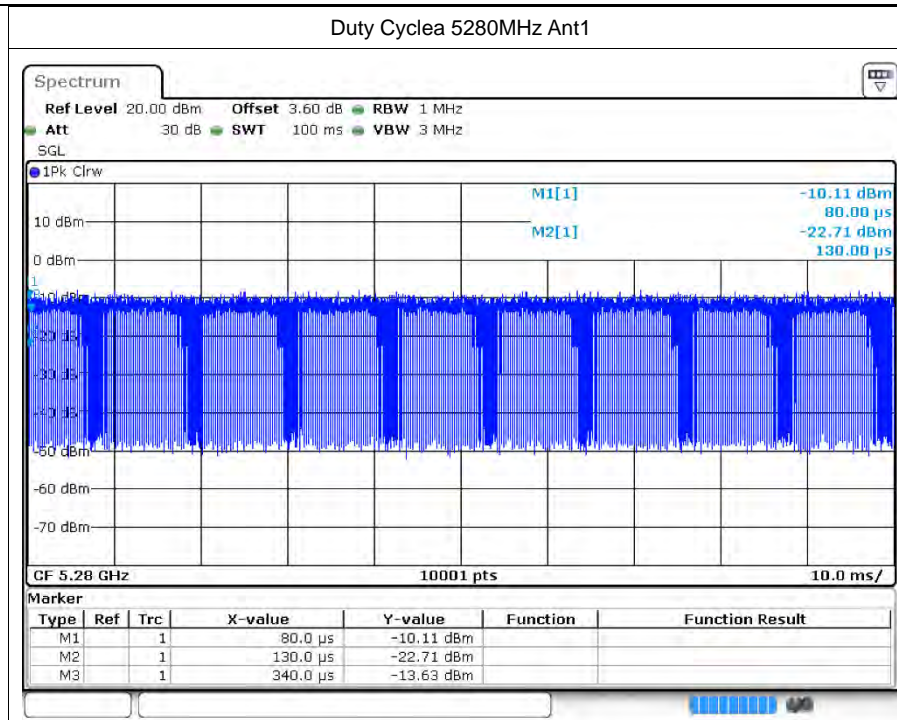


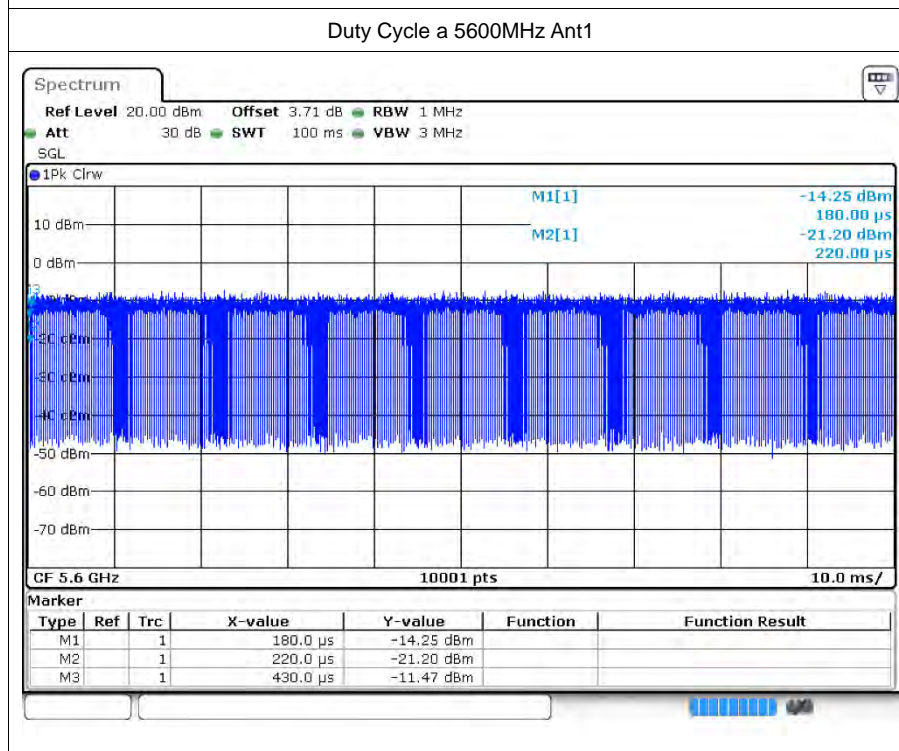
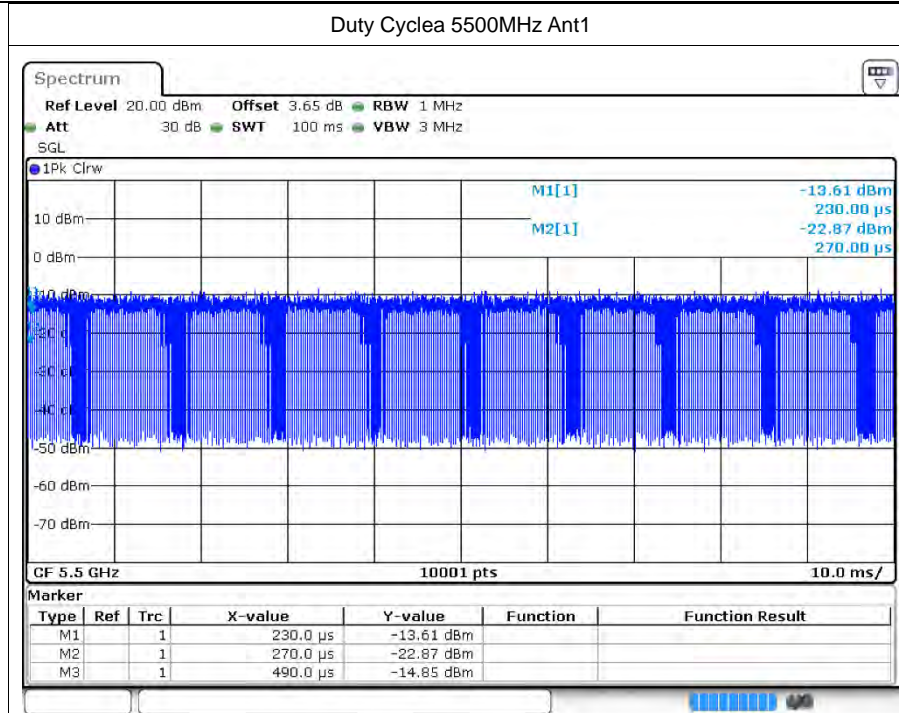
ac40	5510	Ant1	74.89	1.26	5
ac40	5670	Ant1	76.92	1.14	4.76
ac80	5210	Ant1	68.89	1.62	20
ac80	5290	Ant1	69.49	1.58	20
ac80	5530	Ant1	69.5	1.58	100
ac80	5610	Ant1	74.17	1.3	5

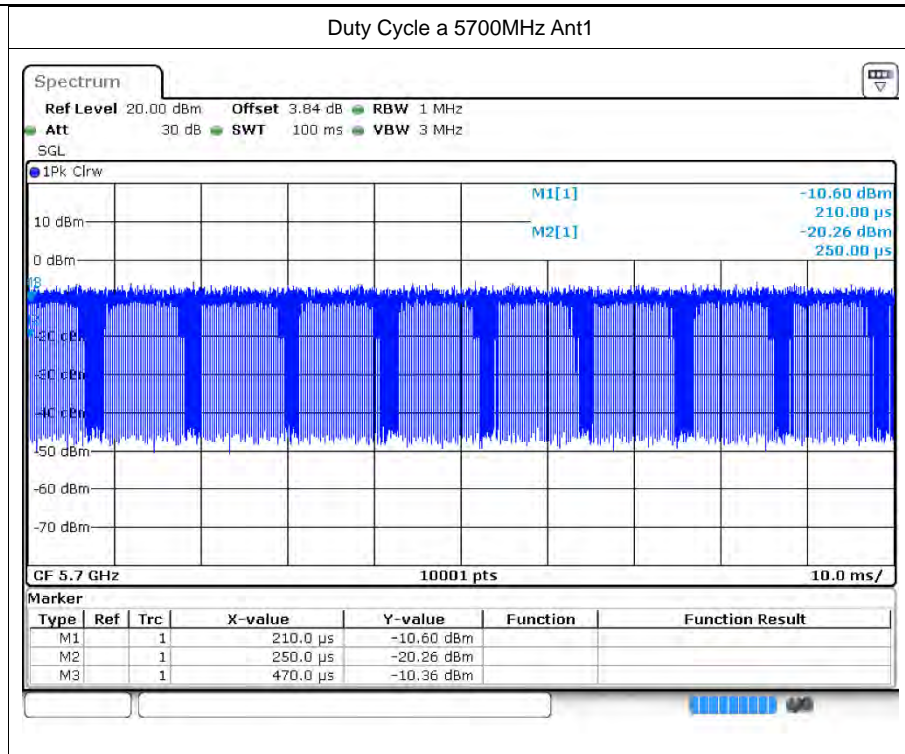
1.2 Test Graphs

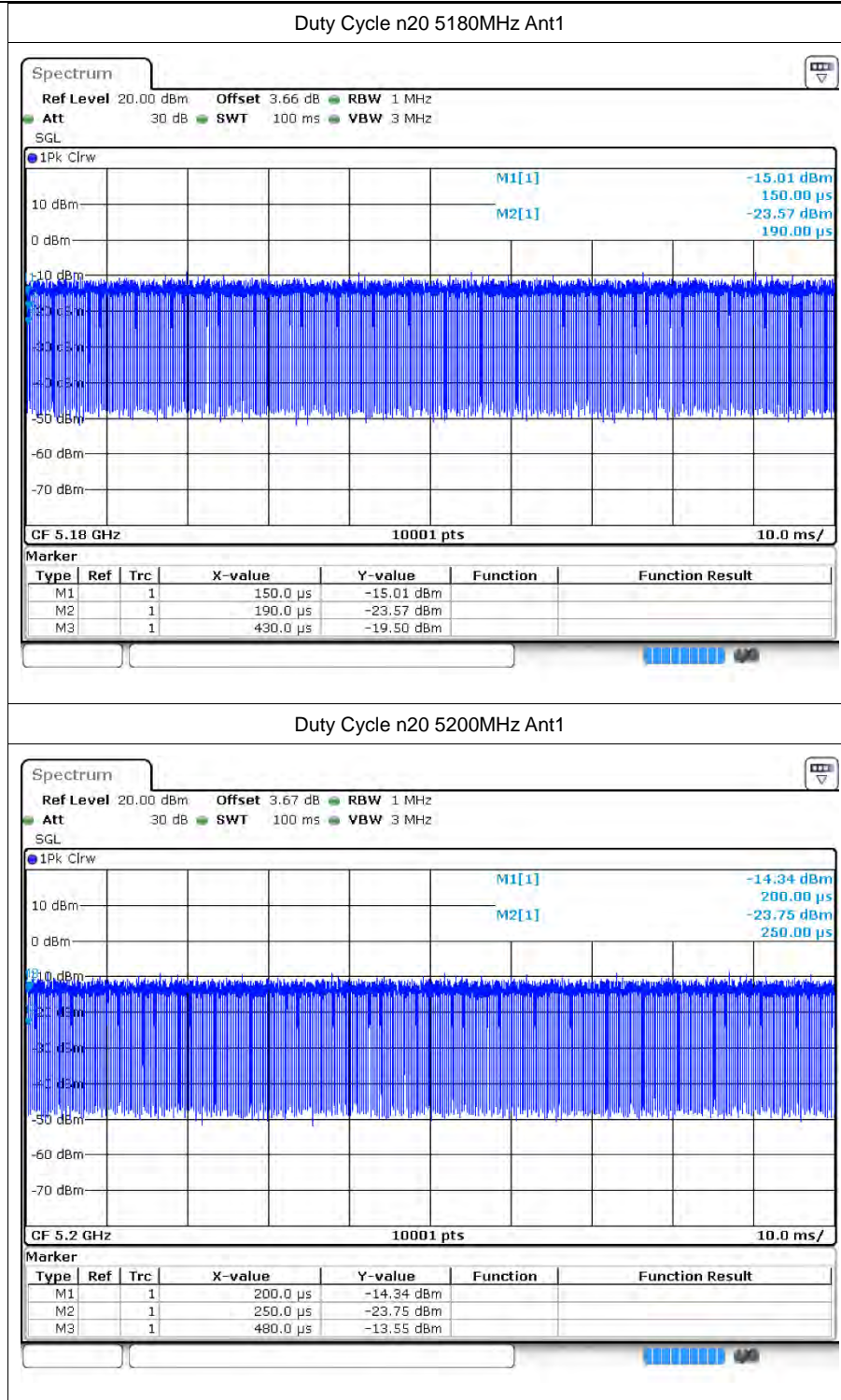


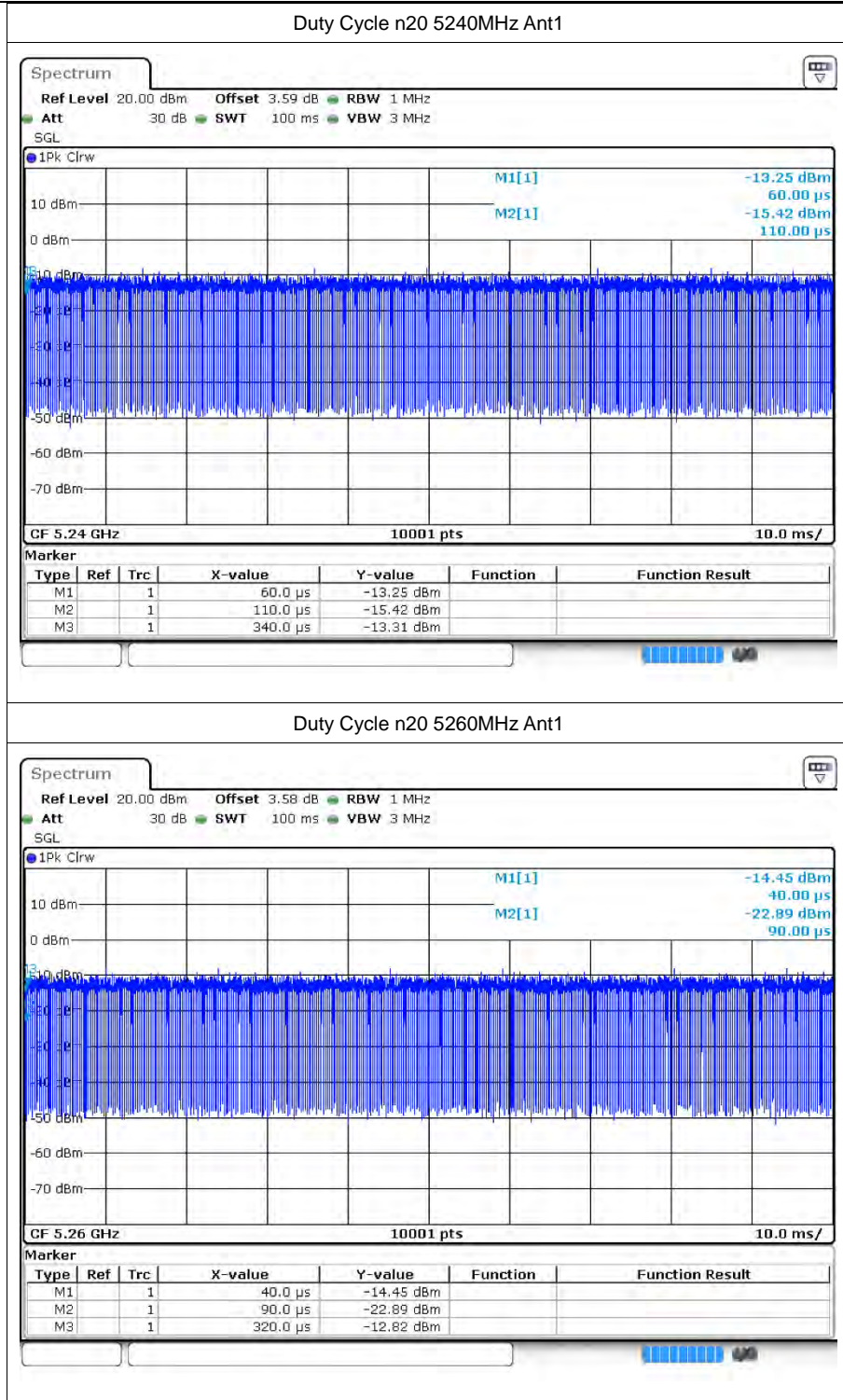


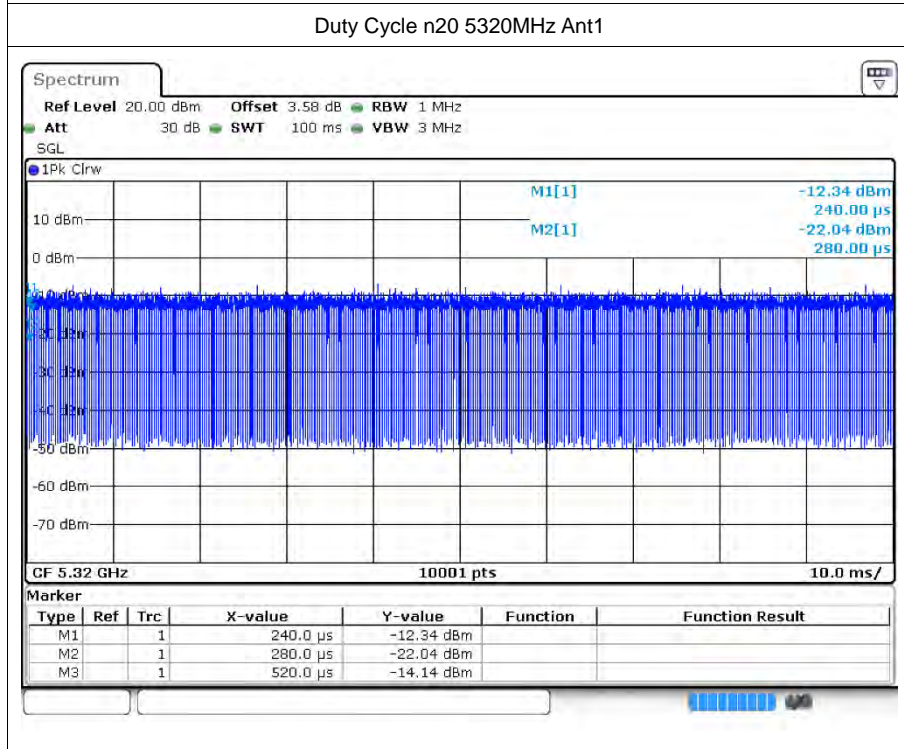
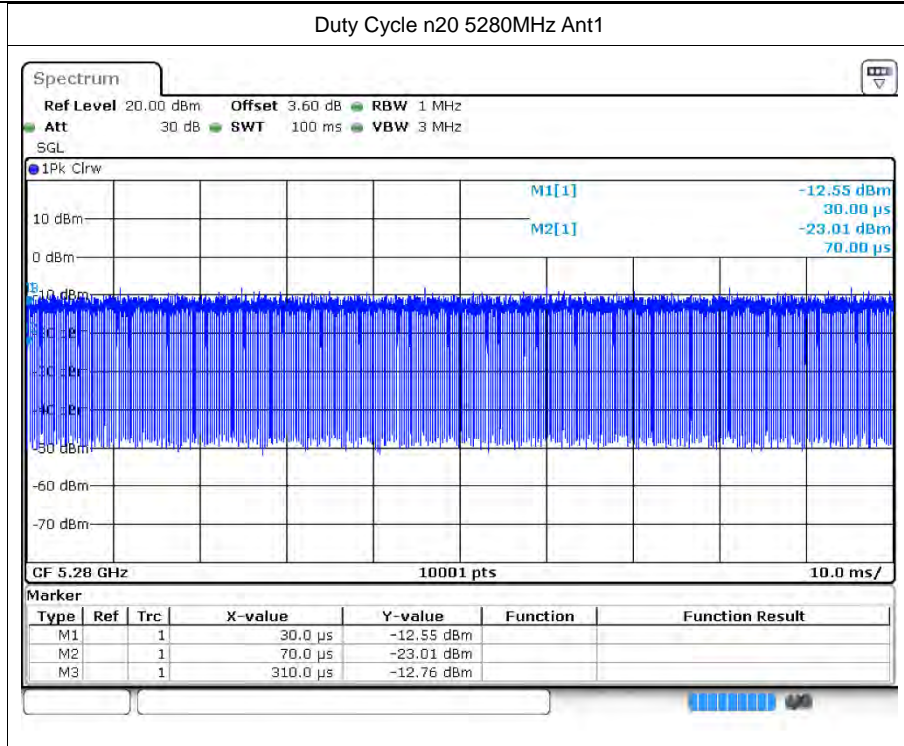


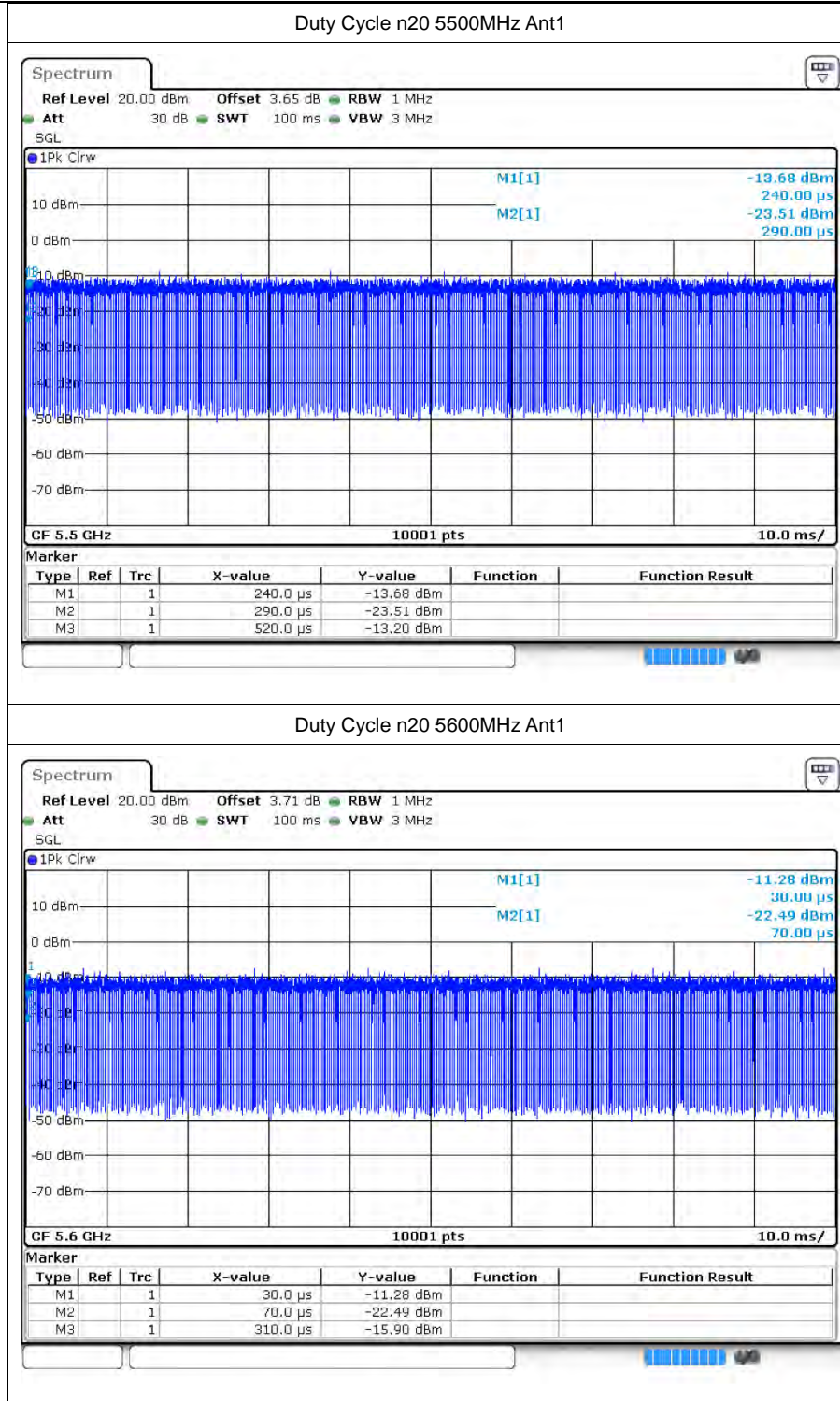


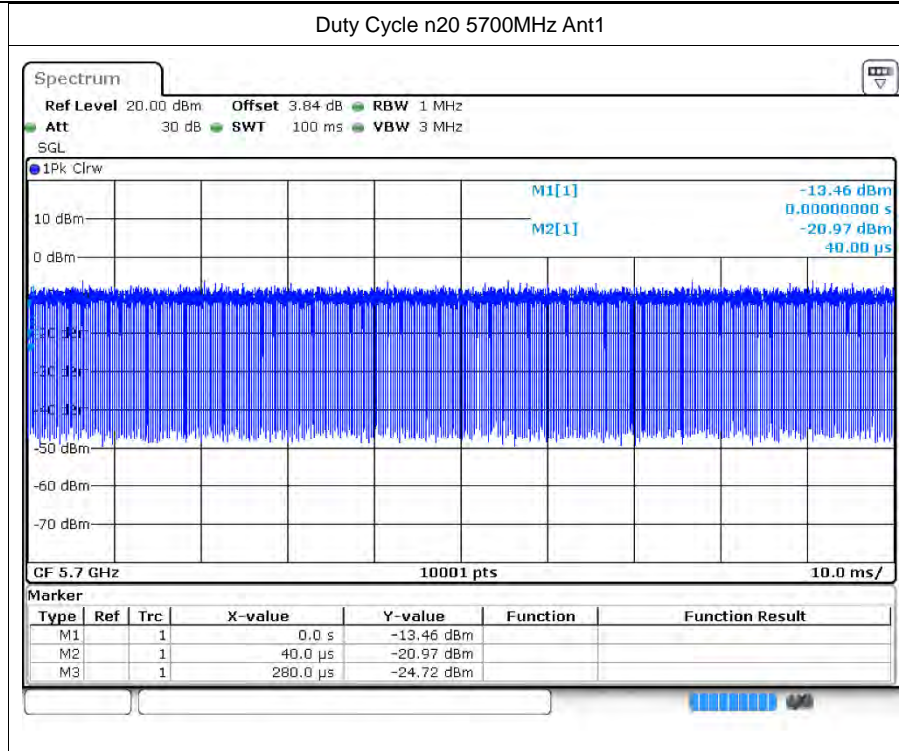


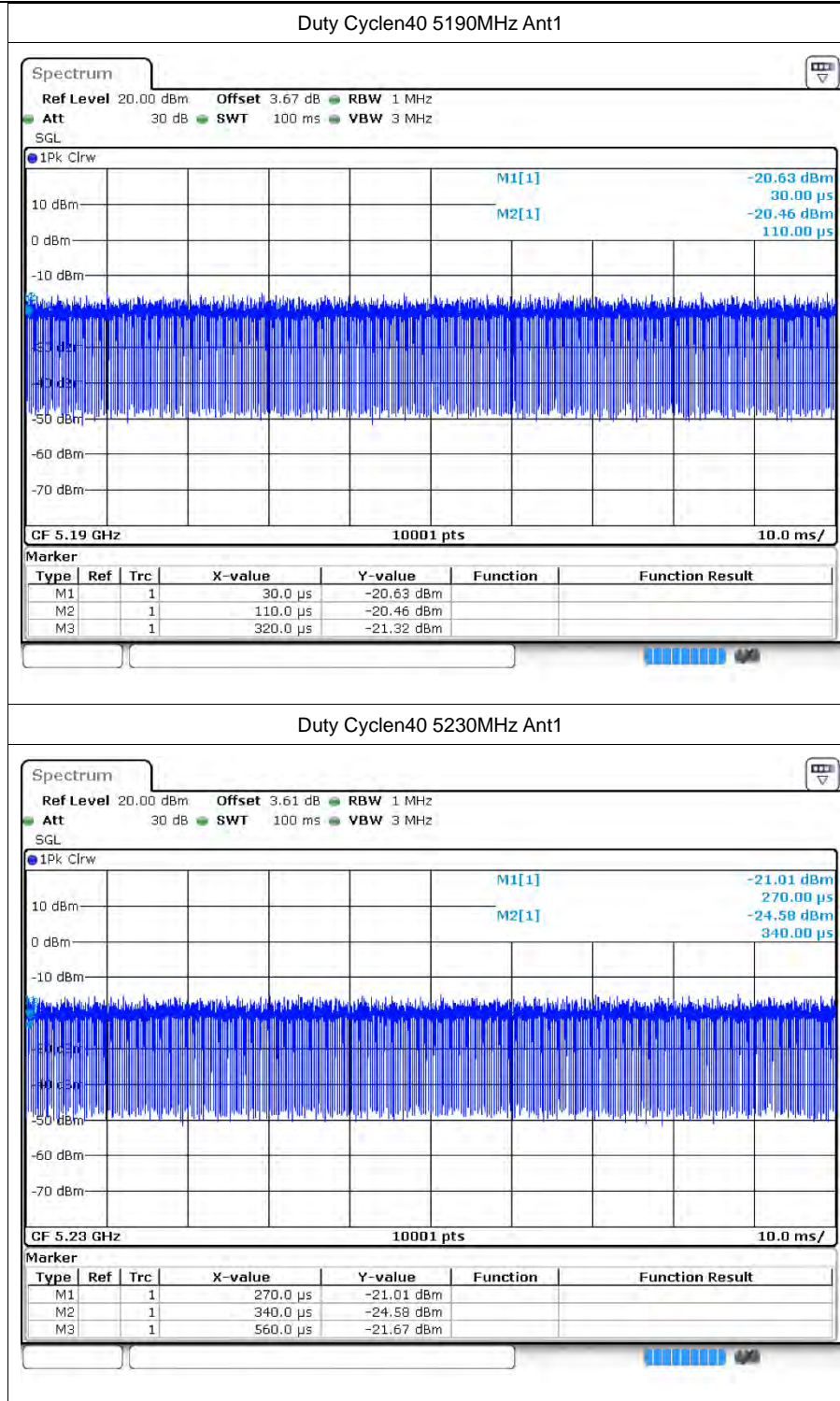


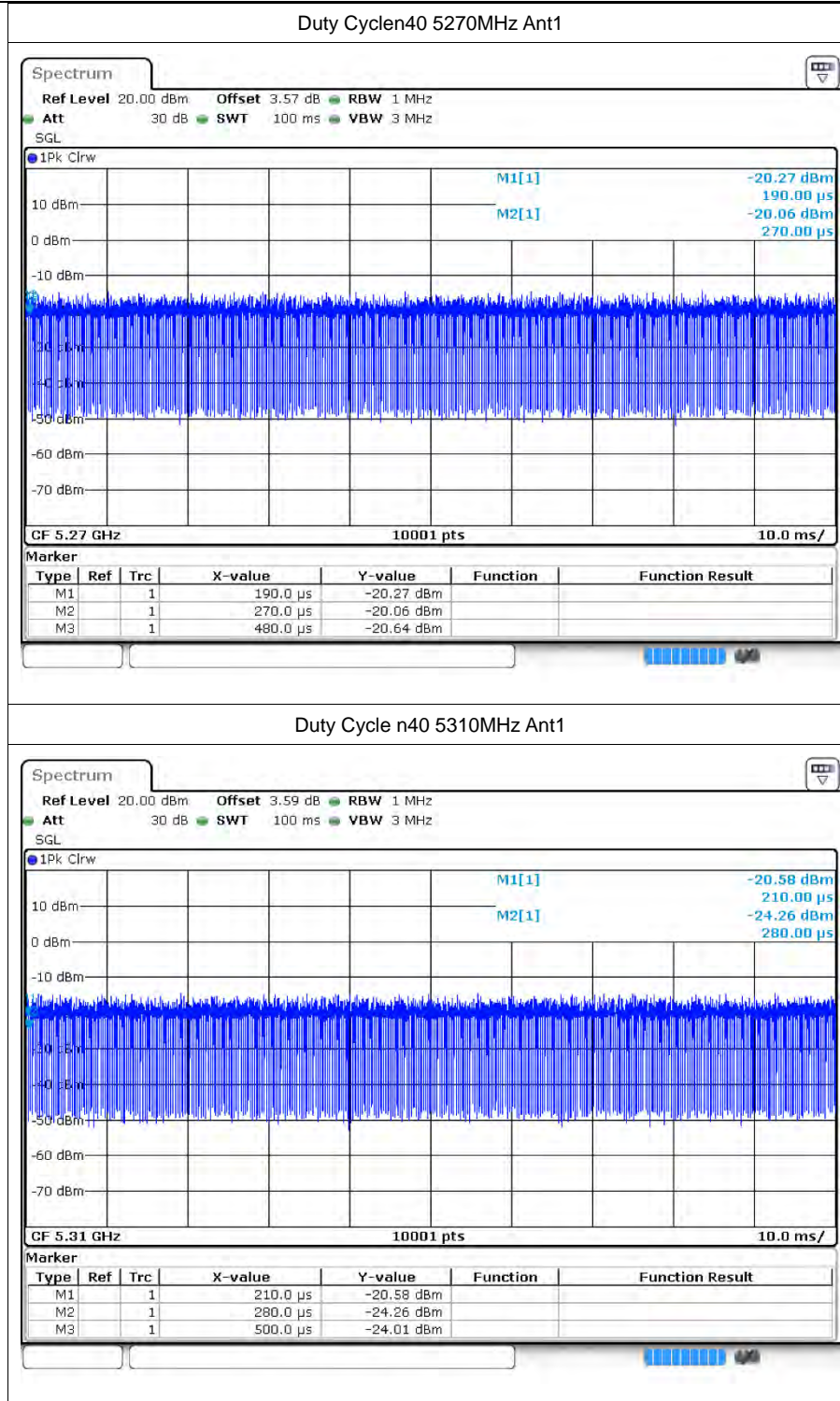


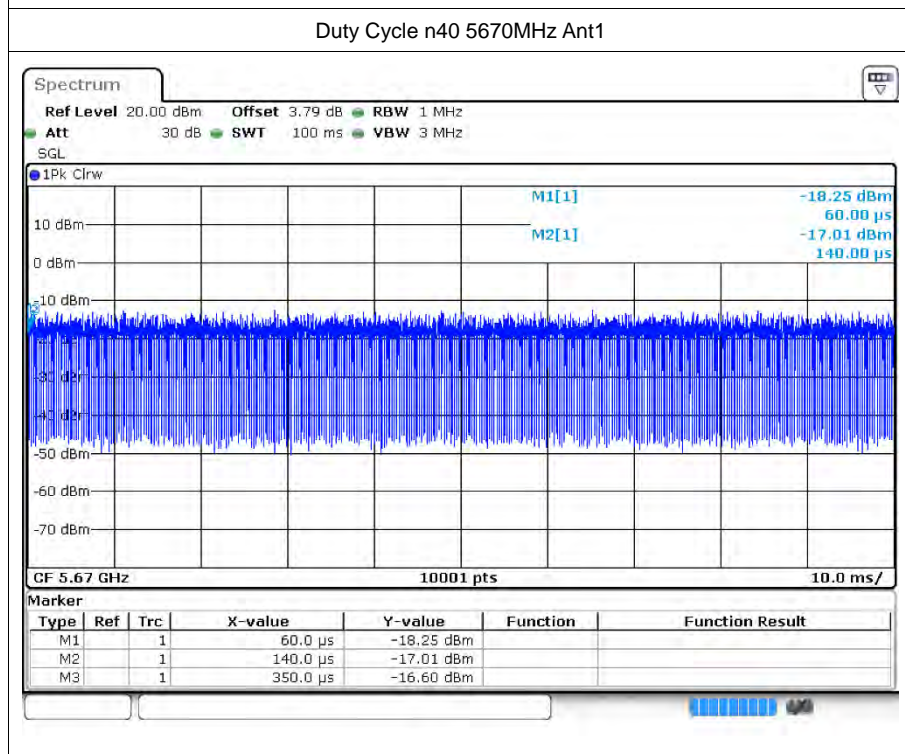
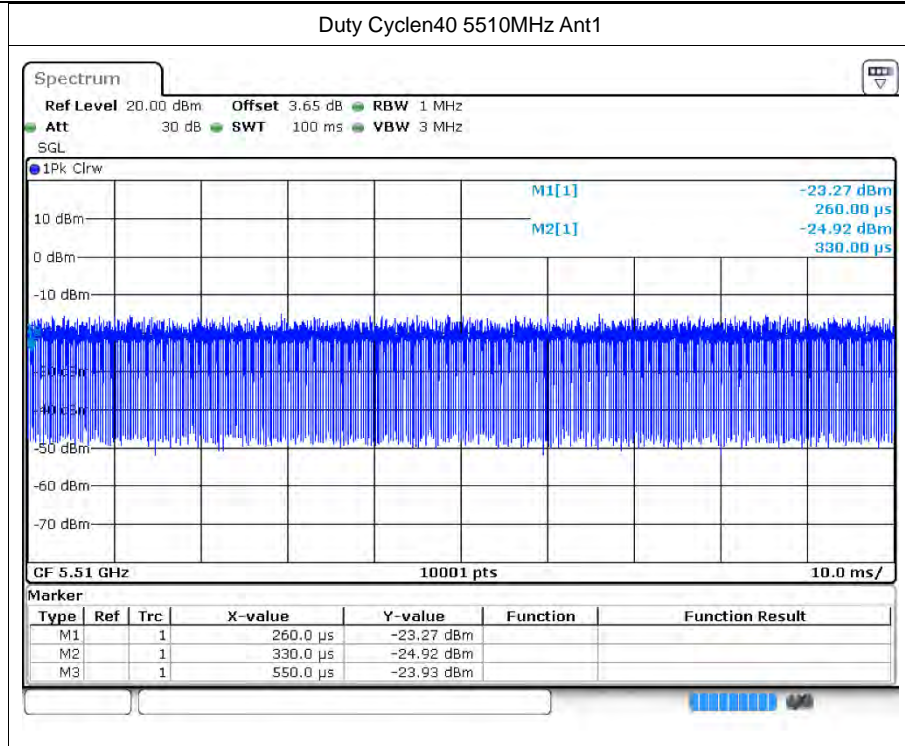


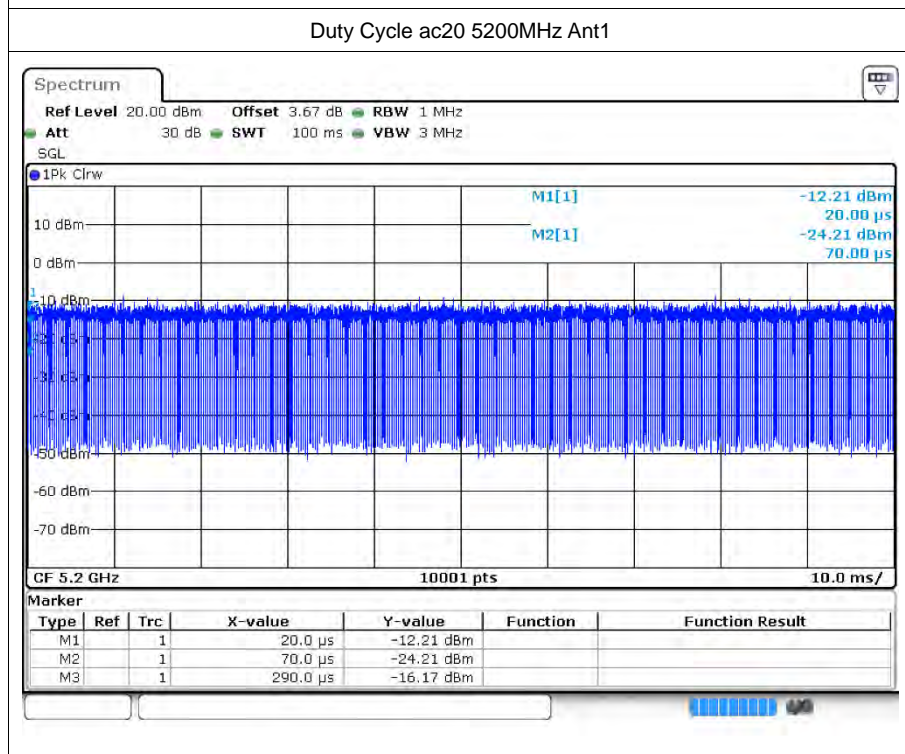
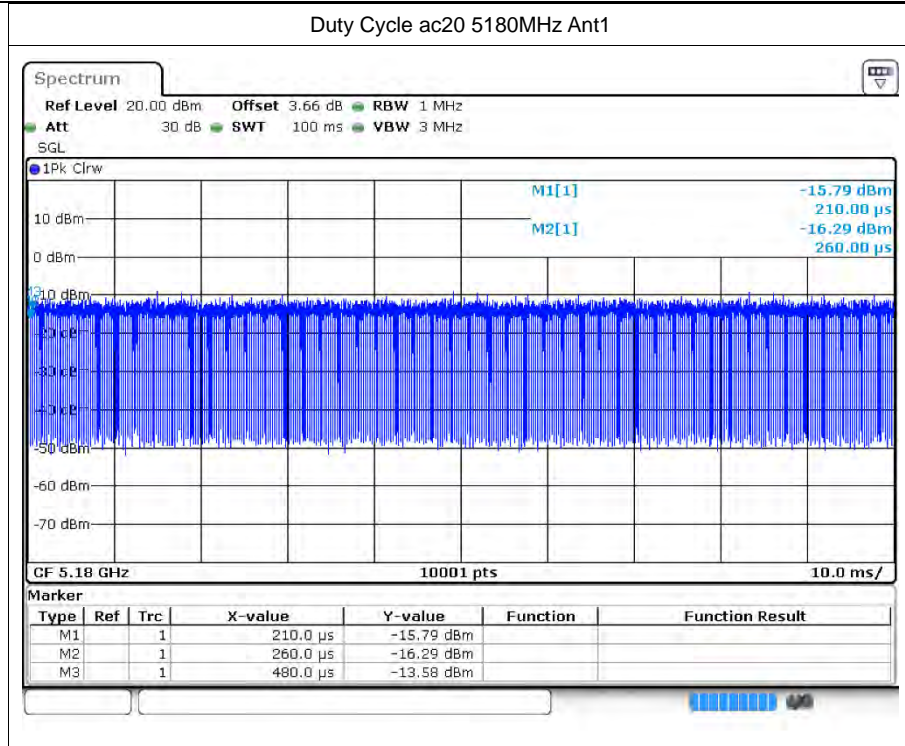


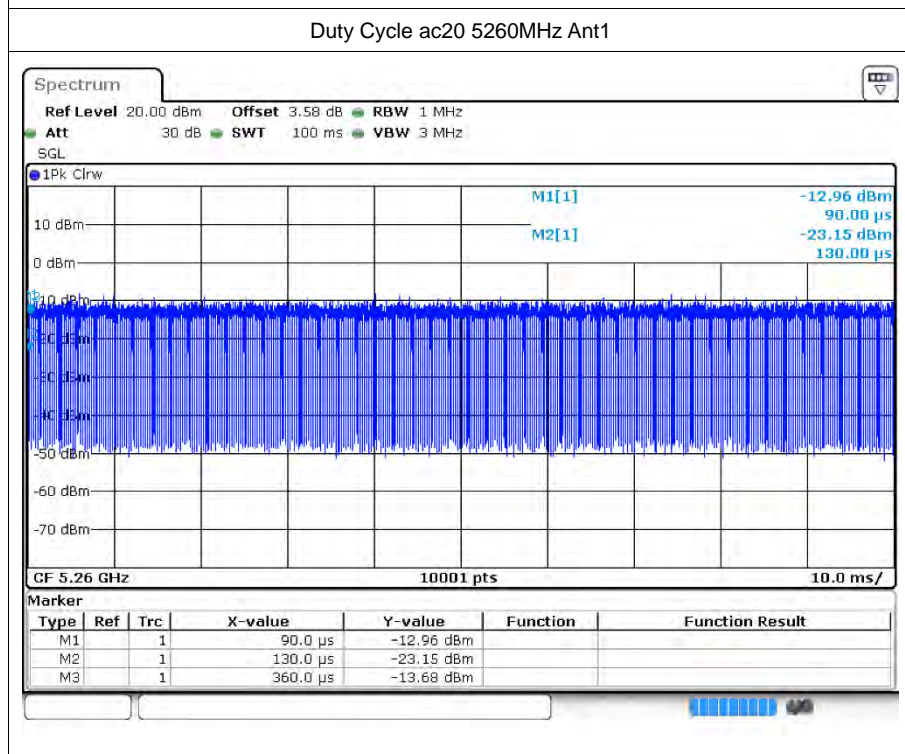
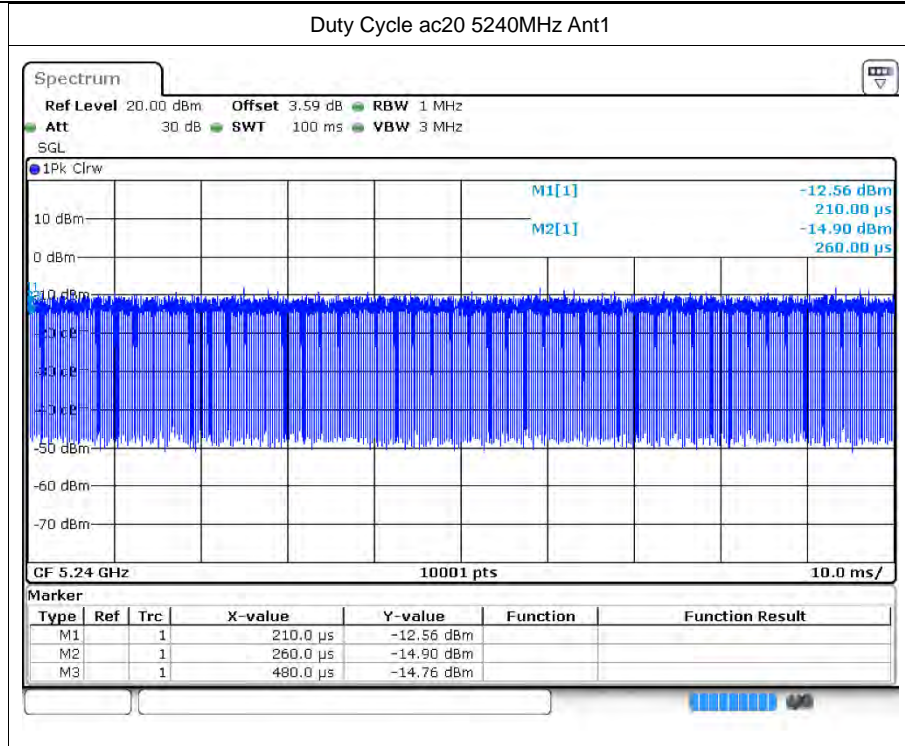




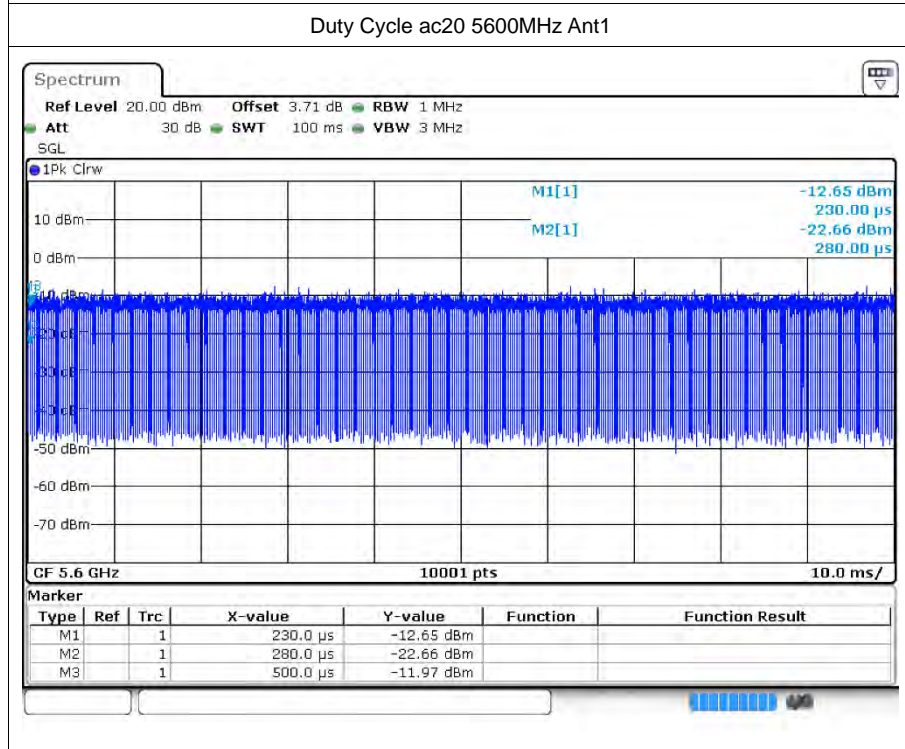
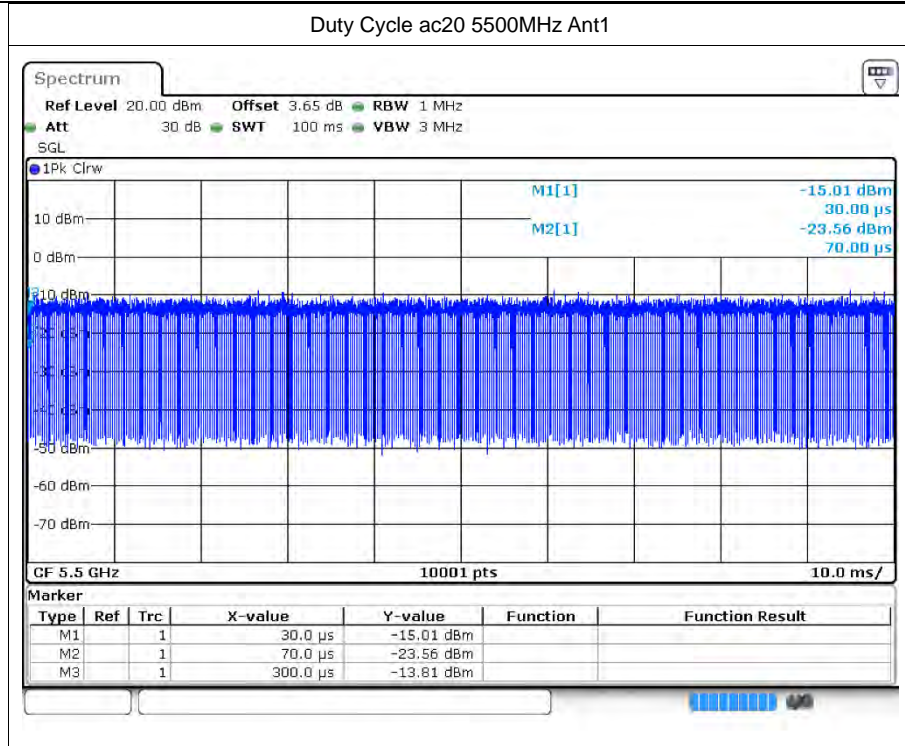


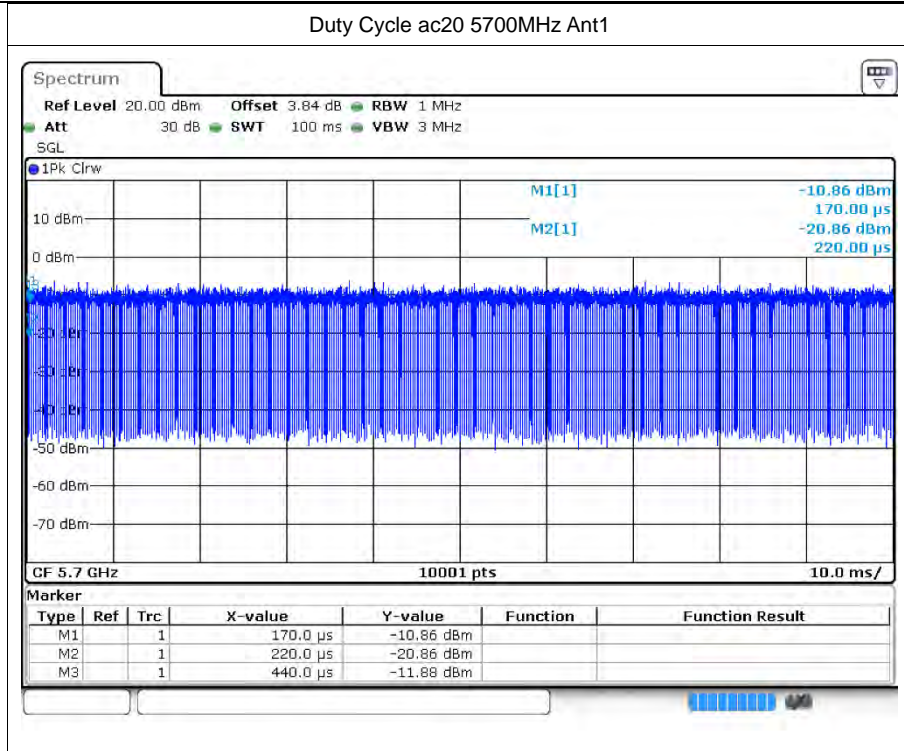


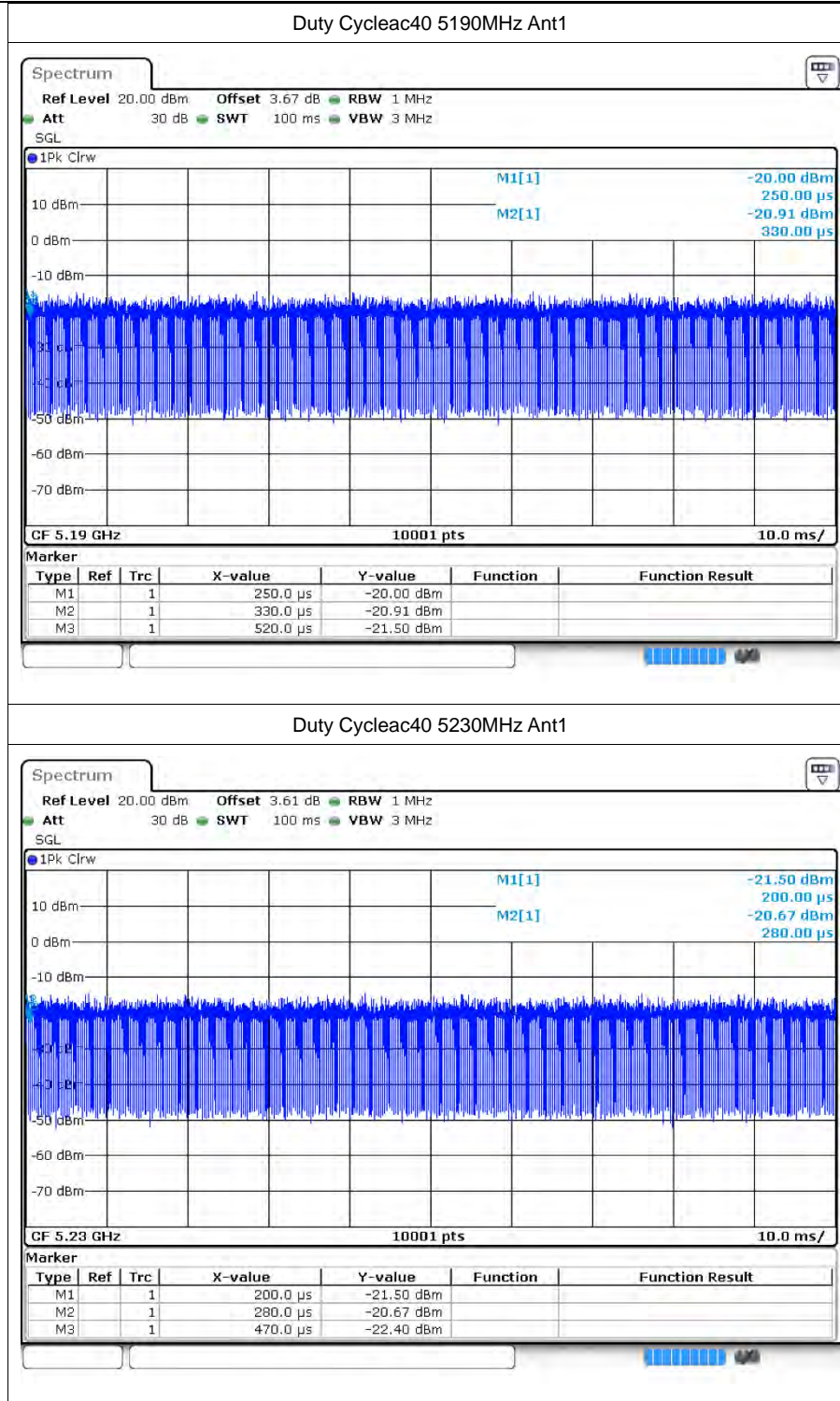


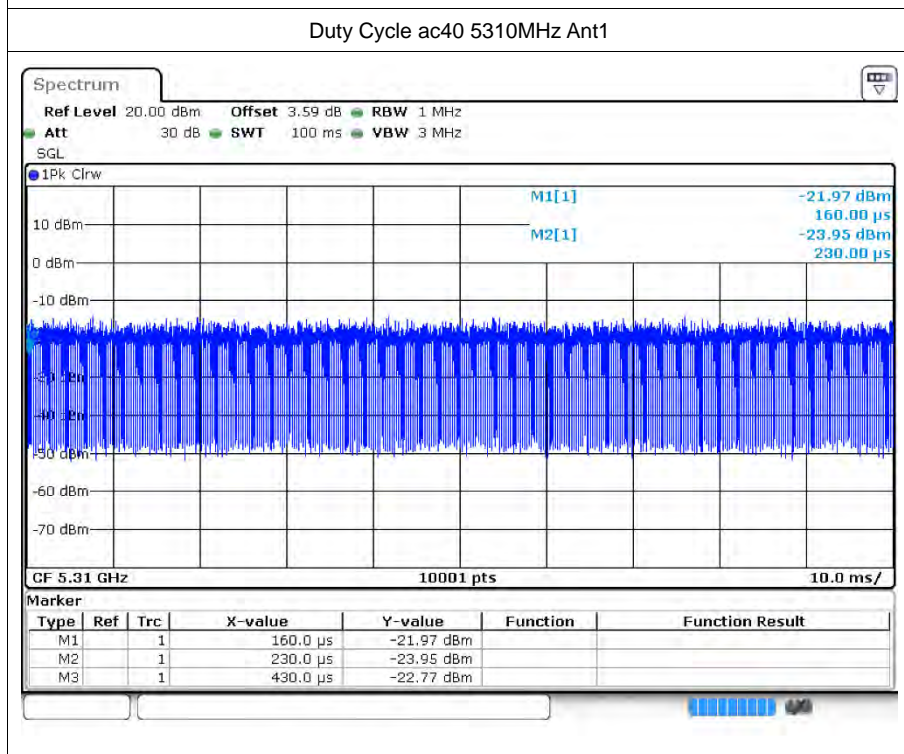
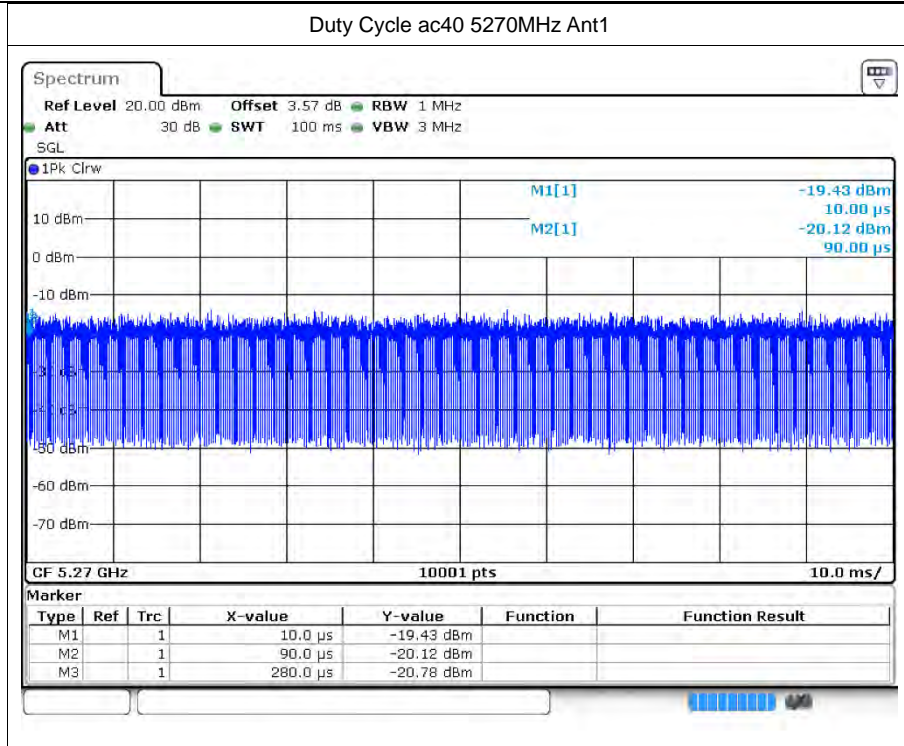


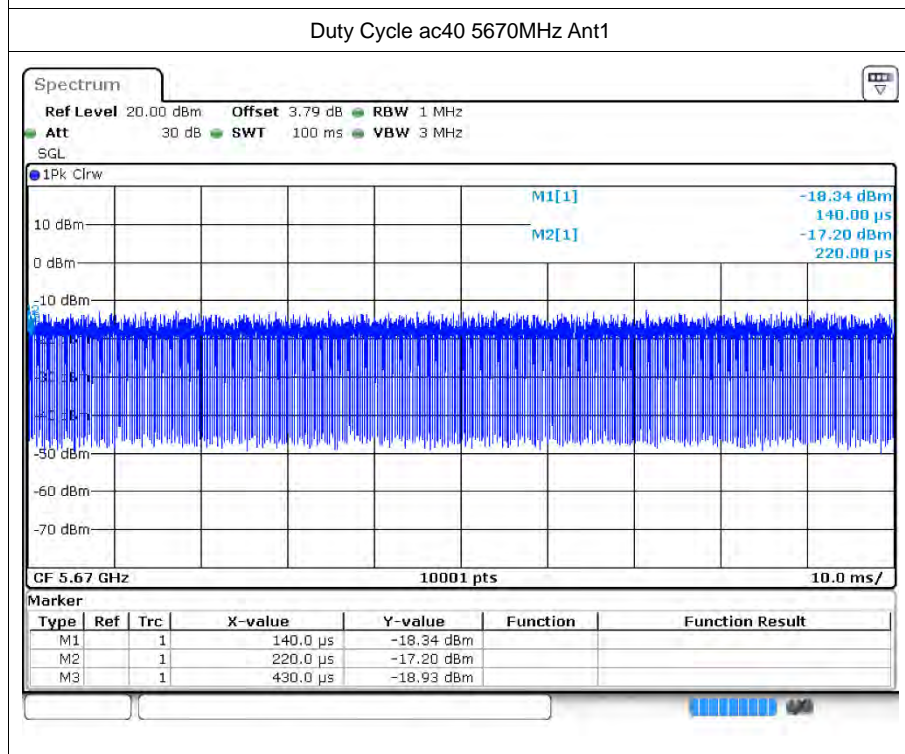
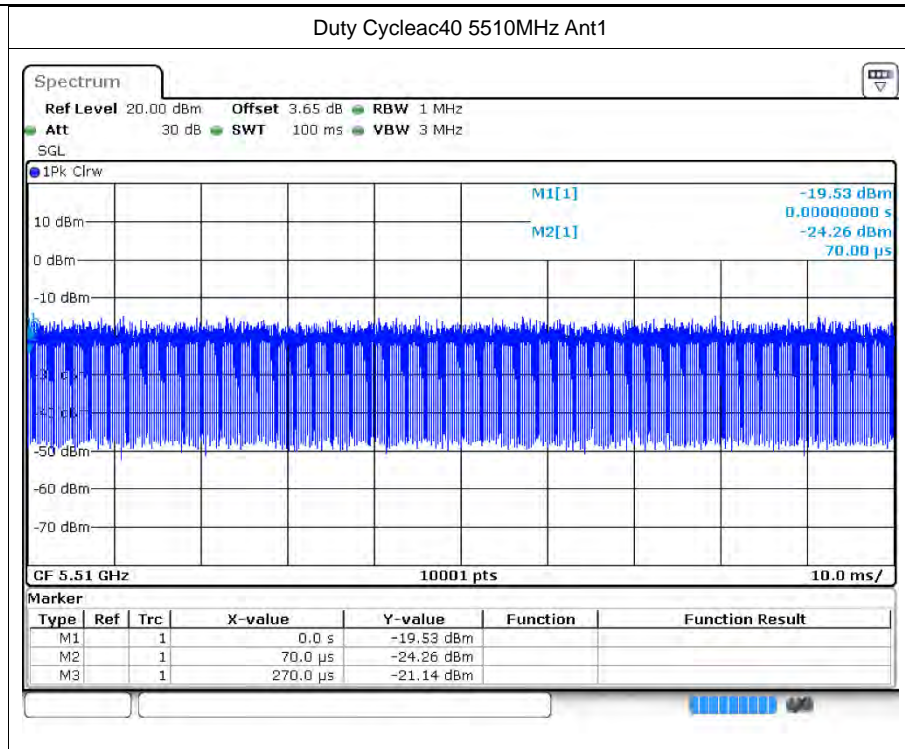


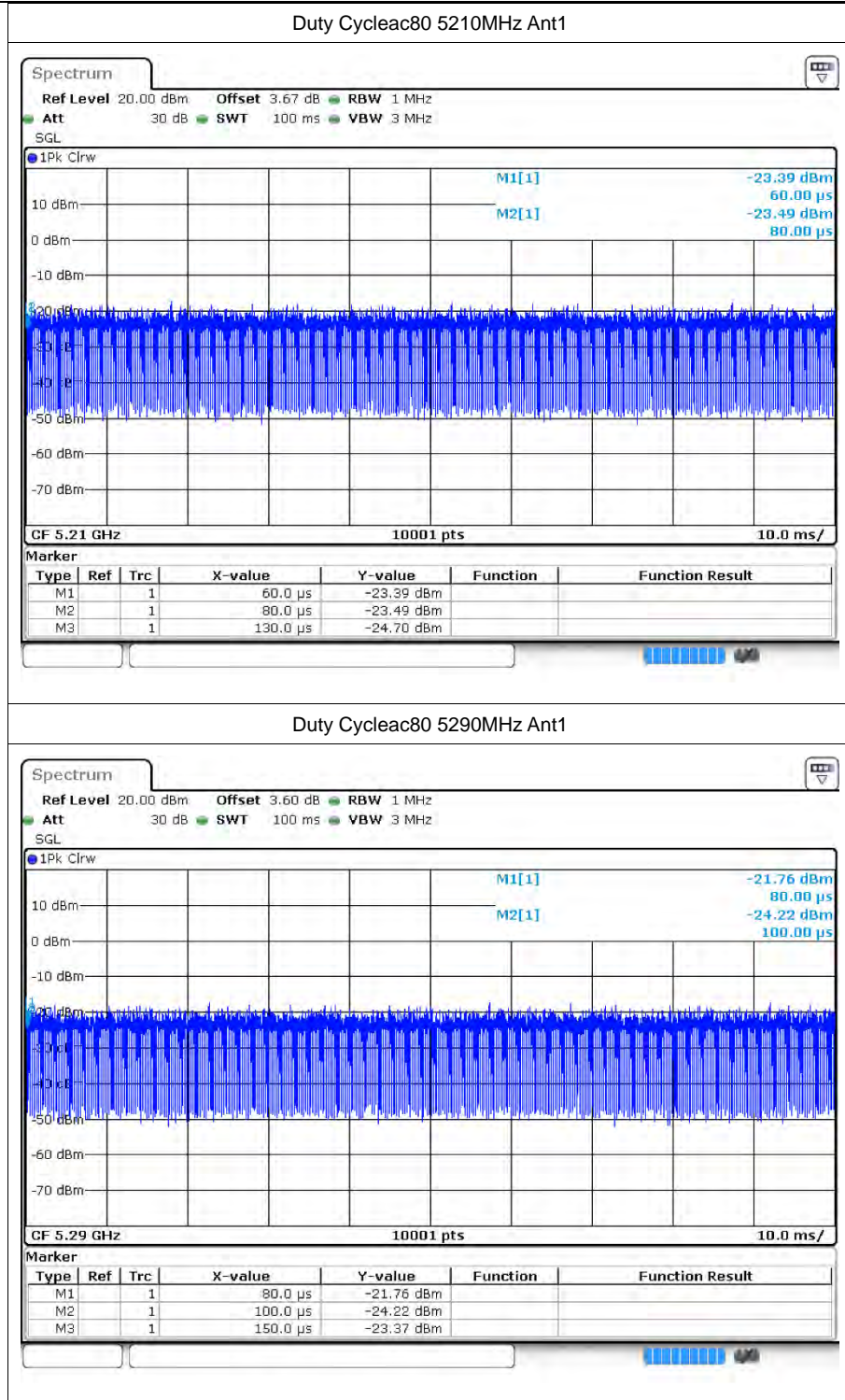


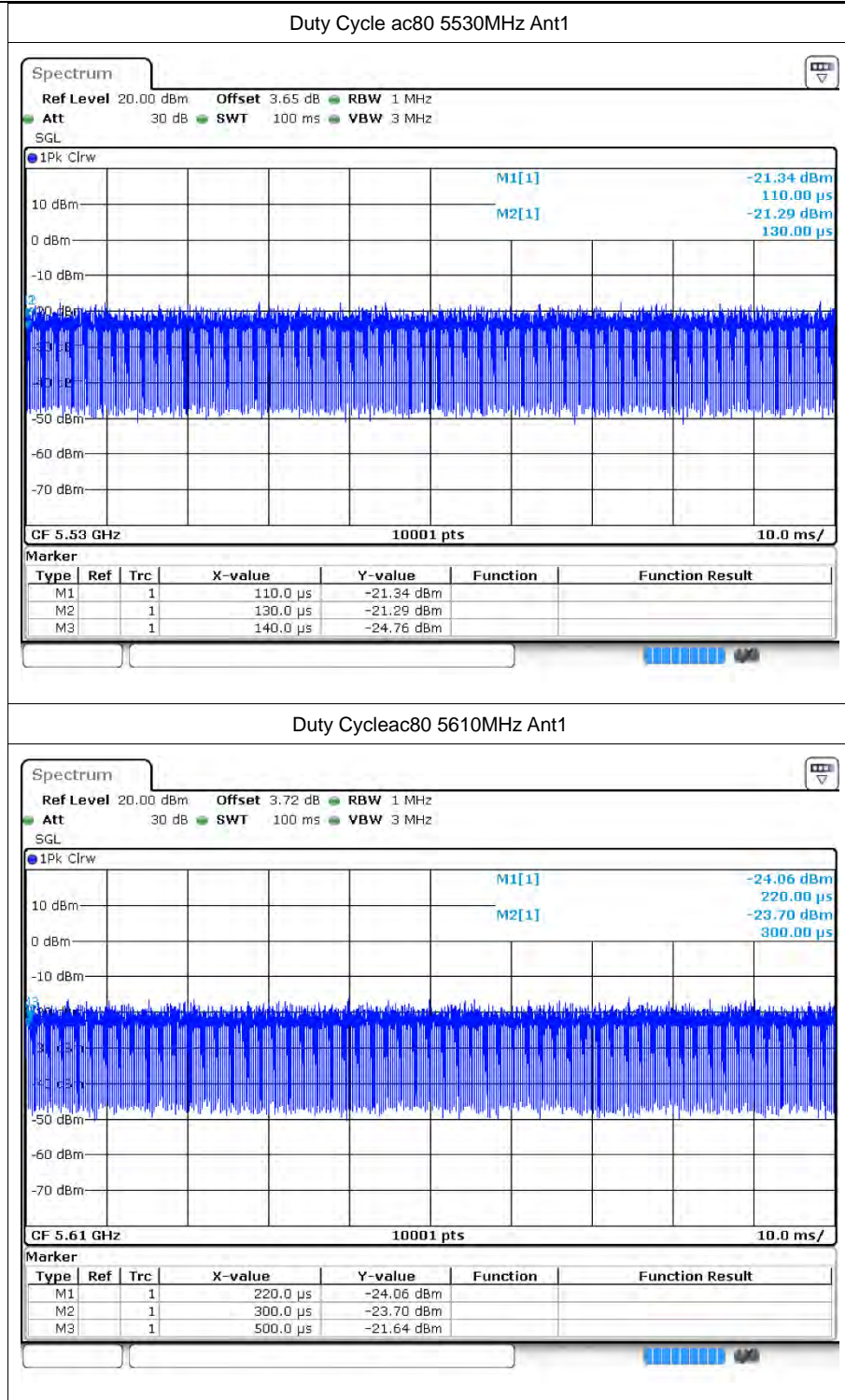












2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-2.52	24	Pass
a	5200	Ant1	-2.48	24	Pass
a	5240	Ant1	-1.81	24	Pass
a	5260	Ant1	-1.6	24	Pass
a	5280	Ant1	-1.69	24	Pass
a	5320	Ant1	-0.74	24	Pass
a	5500	Ant1	-2.21	24	Pass
a	5600	Ant1	-0.89	24	Pass
a	5700	Ant1	-0.77	24	Pass
n20	5180	Ant1	-3.08	24	Pass
n20	5200	Ant1	-2.99	24	Pass
n20	5240	Ant1	-2.27	24	Pass
n20	5280	Ant1	-2.28	24	Pass
n20	5320	Ant1	-1.32	24	Pass
n20	5500	Ant1	-2.84	24	Pass
n20	5600	Ant1	-1.56	24	Pass
n20	5700	Ant1	-0.8	24	Pass
n40	5190	Ant1	-2.67	24	Pass
n40	5230	Ant1	-2.62	24	Pass
n40	5270	Ant1	-2.32	24	Pass
n40	5310	Ant1	-2.16	24	Pass
n40	5510	Ant1	-2.85	24	Pass
n40	5670	Ant1	-1.2	24	Pass
ac20	5180	Ant1	-3.23	24	Pass
ac20	5200	Ant1	-3.16	24	Pass
ac20	5240	Ant1	-2.43	24	Pass
ac20	5280	Ant1	-2.3	24	Pass
ac20	5320	Ant1	-1.38	24	Pass
ac20	5500	Ant1	-2.84	24	Pass
ac20	5600	Ant1	-1.64	24	Pass
ac20	5700	Ant1	-1.08	24	Pass
ac40	5190	Ant1	-2.69	24	Pass
ac40	5230	Ant1	-2.7	24	Pass
ac40	5270	Ant1	-2.36	24	Pass
ac40	5310	Ant1	-2.15	24	Pass
ac40	5510	Ant1	-2.79	24	Pass



ac40	5670	Ant1	-1.25	24	Pass
ac80	5210	Ant1	-2.66	24	Pass
ac80	5290	Ant1	-2.35	24	Pass
ac80	5530	Ant1	-2.98	24	Pass
ac80	5610	Ant1	-1.69	24	Pass



3 -26dB Bandwidth

3.1 Test Result

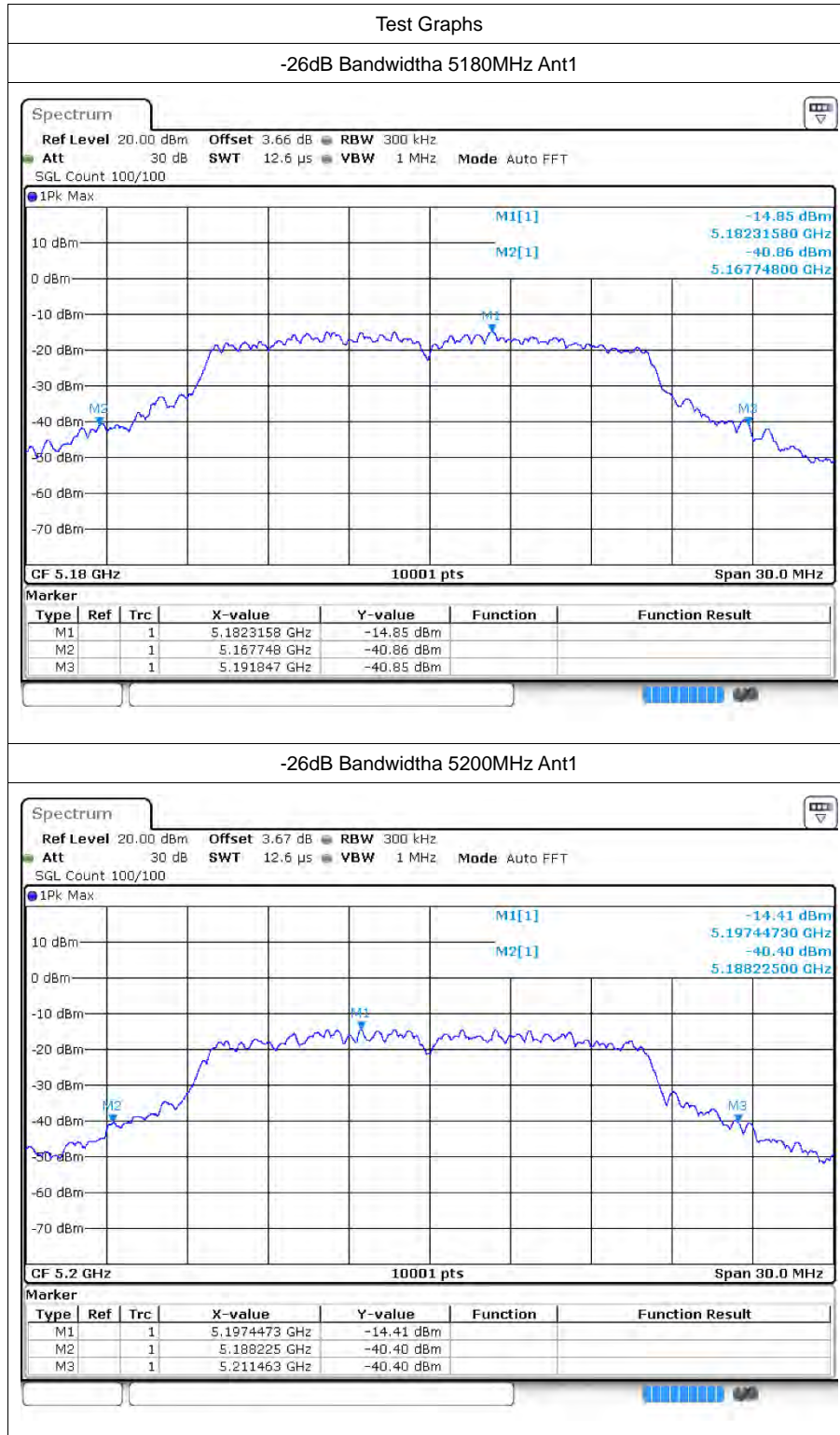
Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	24.099	0.5	Pass
a	5200	Ant1	23.238	0.5	Pass
a	5240	Ant1	21.984	0.5	Pass
a	5260	Ant1	22.377	0.5	Pass
a	5280	Ant1	22.488	0.5	Pass
a	5320	Ant1	22.683	0.5	Pass
a	5500	Ant1	21.093	0.5	Pass
a	5600	Ant1	22.638	0.5	Pass
a	5700	Ant1	22.473	0.5	Pass
n20	5180	Ant1	22.863	0.5	Pass
n20	5200	Ant1	22.758	0.5	Pass
n20	5240	Ant1	22.965	0.5	Pass
n20	5280	Ant1	22.989	0.5	Pass
n20	5320	Ant1	22.263	0.5	Pass
n20	5500	Ant1	22.836	0.5	Pass
n20	5600	Ant1	23.271	0.5	Pass
n20	5700	Ant1	22.563	0.5	Pass
n40	5190	Ant1	44.334	0.5	Pass
n40	5230	Ant1	42.666	0.5	Pass
n40	5270	Ant1	43.23	0.5	Pass
n40	5310	Ant1	42.63	0.5	Pass
n40	5510	Ant1	42.996	0.5	Pass
n40	5670	Ant1	44.358	0.5	Pass
ac20	5180	Ant1	22.794	0.5	Pass
ac20	5200	Ant1	22.974	0.5	Pass
ac20	5240	Ant1	23.025	0.5	Pass
ac20	5260	Ant1	23.514	0.5	Pass
ac20	5280	Ant1	23.679	0.5	Pass
ac20	5320	Ant1	23.034	0.5	Pass
ac20	5500	Ant1	22.488	0.5	Pass
ac20	5600	Ant1	22.278	0.5	Pass
ac20	5700	Ant1	22.872	0.5	Pass
ac40	5190	Ant1	43.164	0.5	Pass
ac40	5230	Ant1	41.736	0.5	Pass
ac40	5270	Ant1	41.196	0.5	Pass
ac40	5310	Ant1	42.186	0.5	Pass
ac40	5510	Ant1	43.422	0.5	Pass



ac40	5670	Ant1	43.272	0.5	Pass
ac80	5210	Ant1	86.808	0.5	Pass
ac80	5290	Ant1	86.016	0.5	Pass
ac80	5530	Ant1	84.684	0.5	Pass
ac80	5610	Ant1	85.452	0.5	Pass

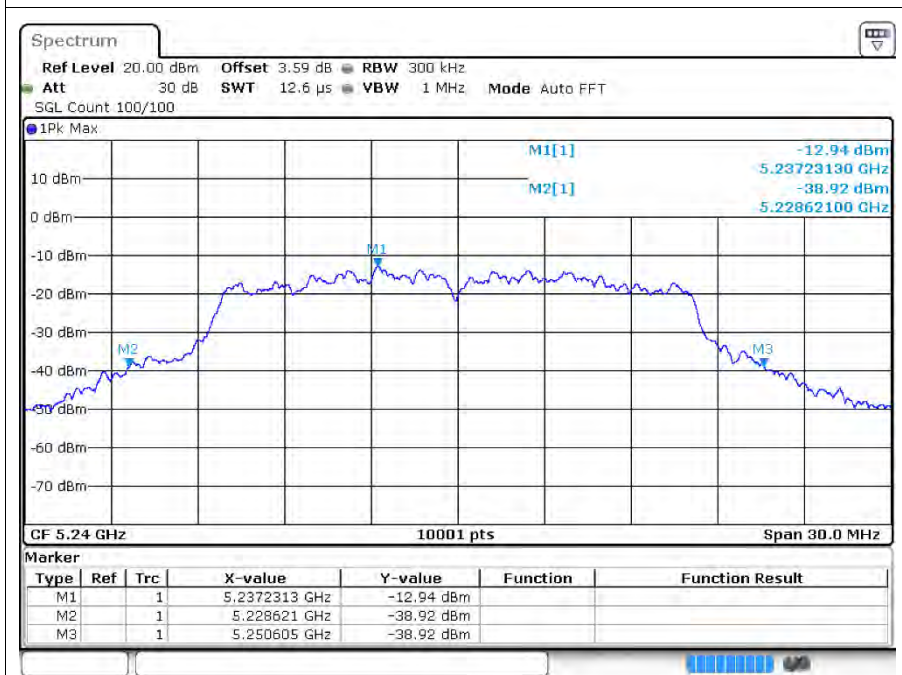


3.2 Test Graphs

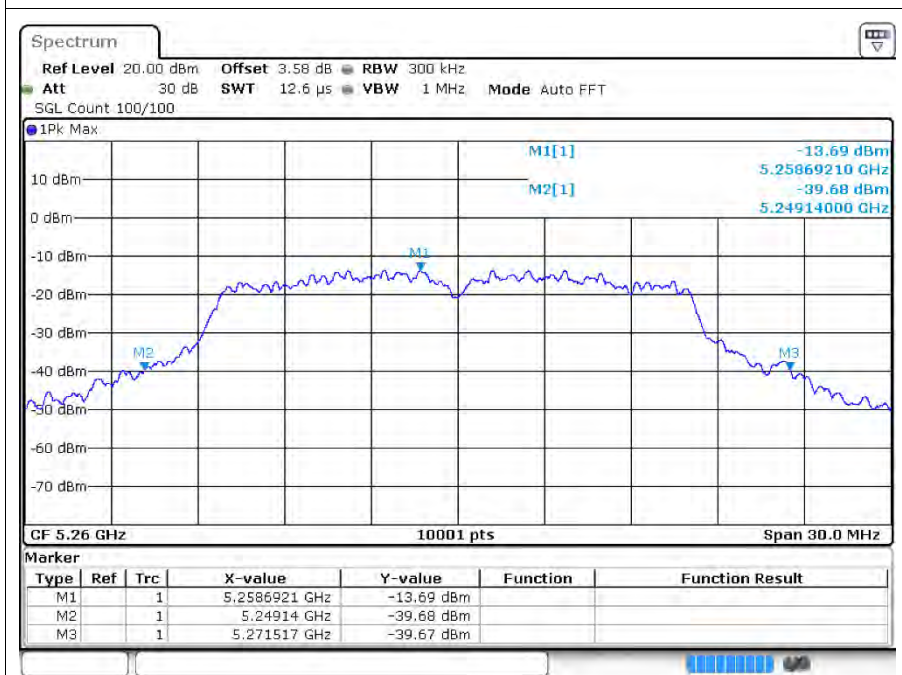




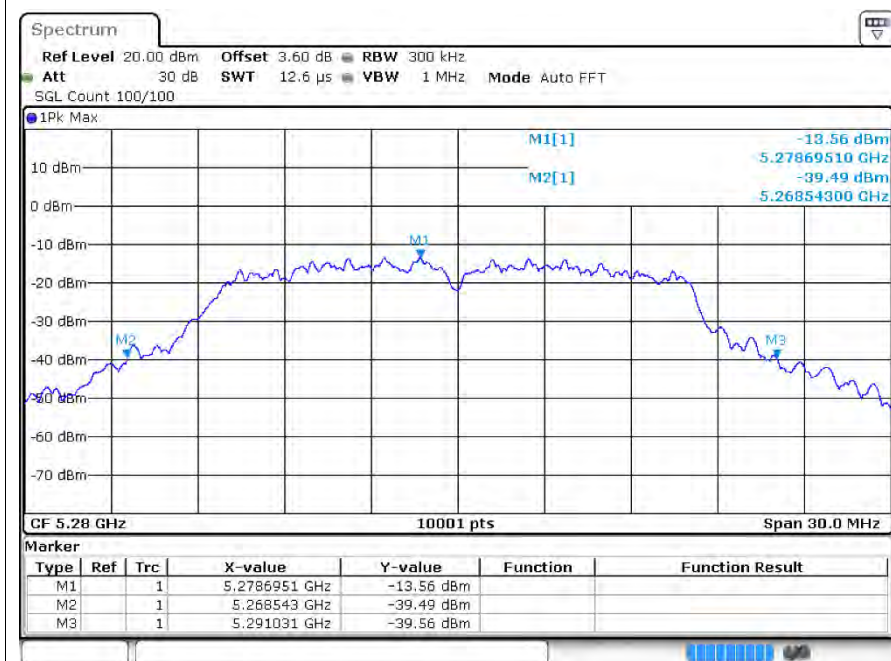
-26dB Bandwidtha 5240MHz Ant1



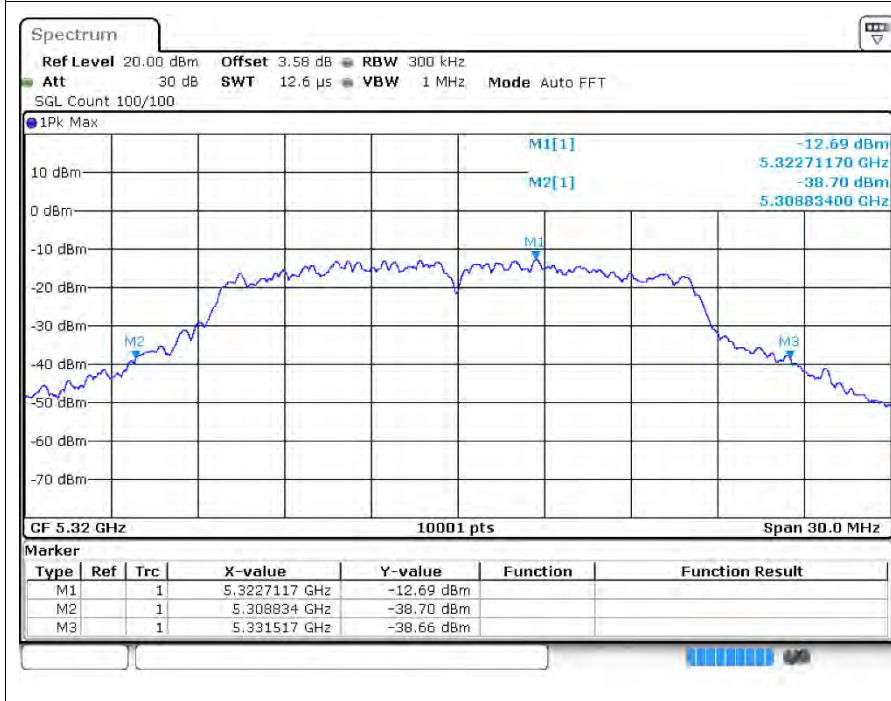
-26dB Bandwidtha 5260MHz Ant1



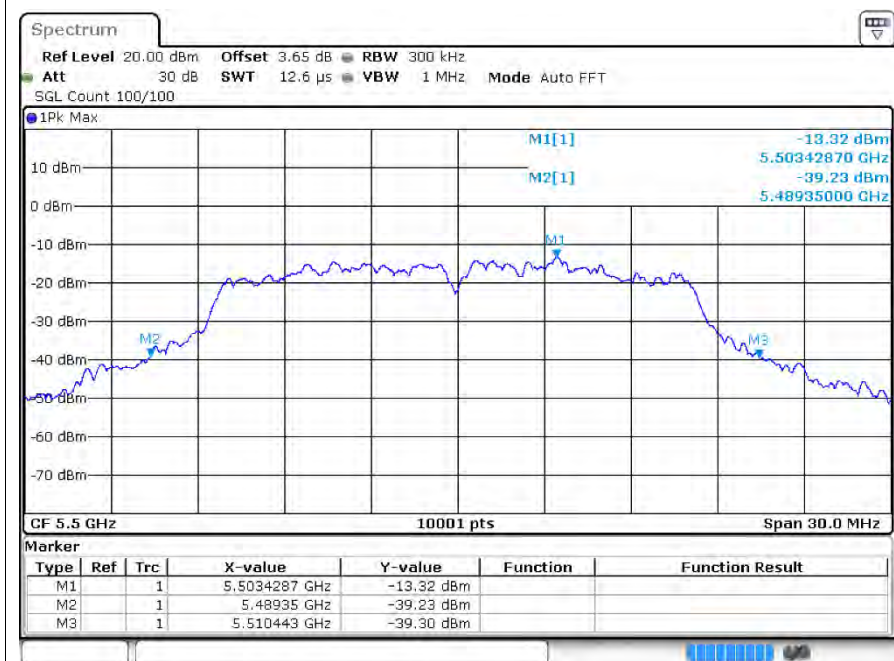
-26dB Bandwidth a 5280MHz Ant1



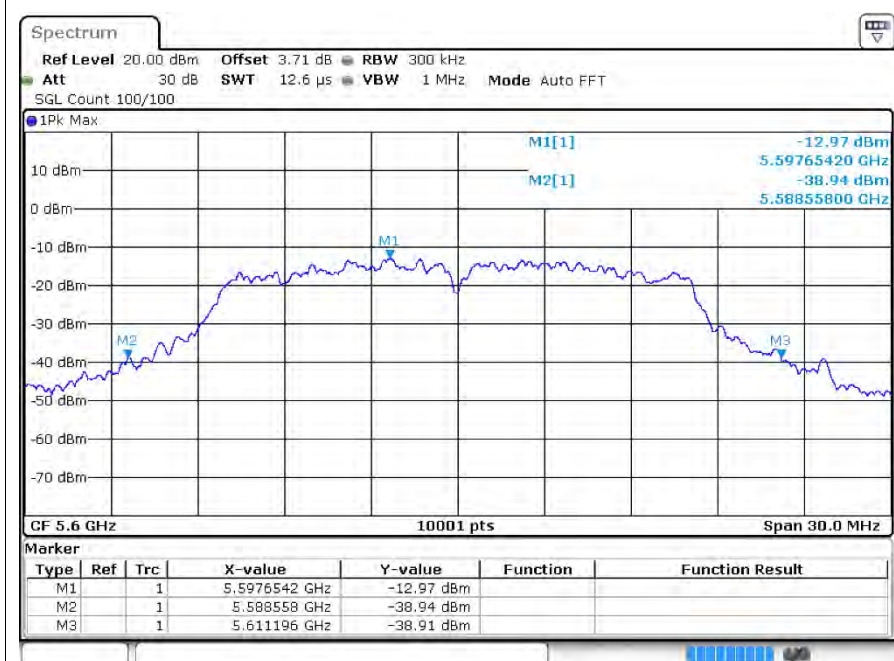
-26dB Bandwidth a 5320MHz Ant1

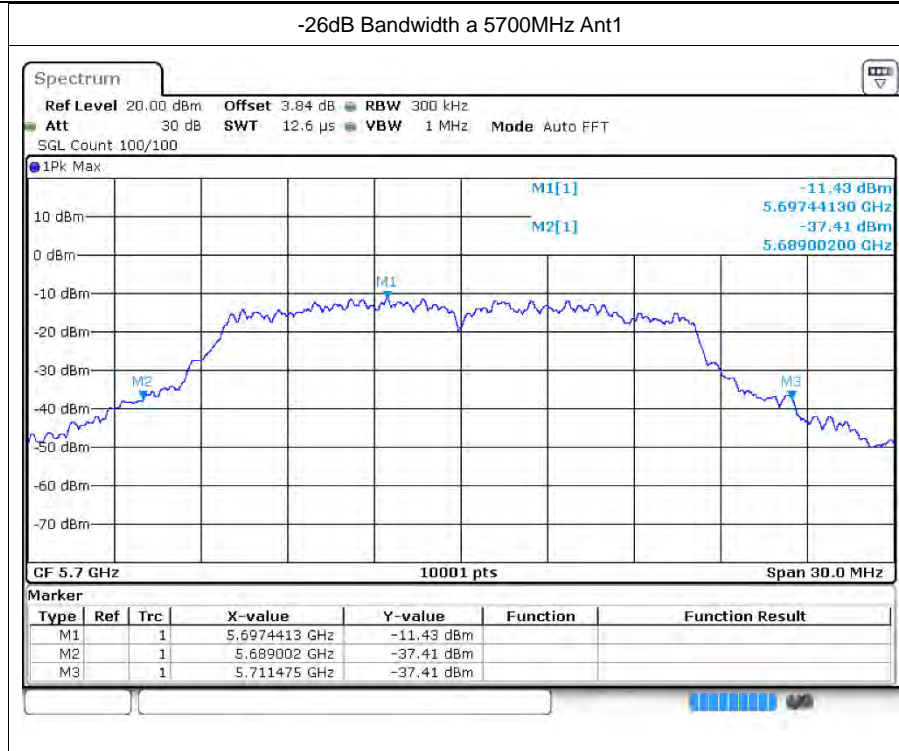


-26dB Bandwidtha 5500MHz Ant1



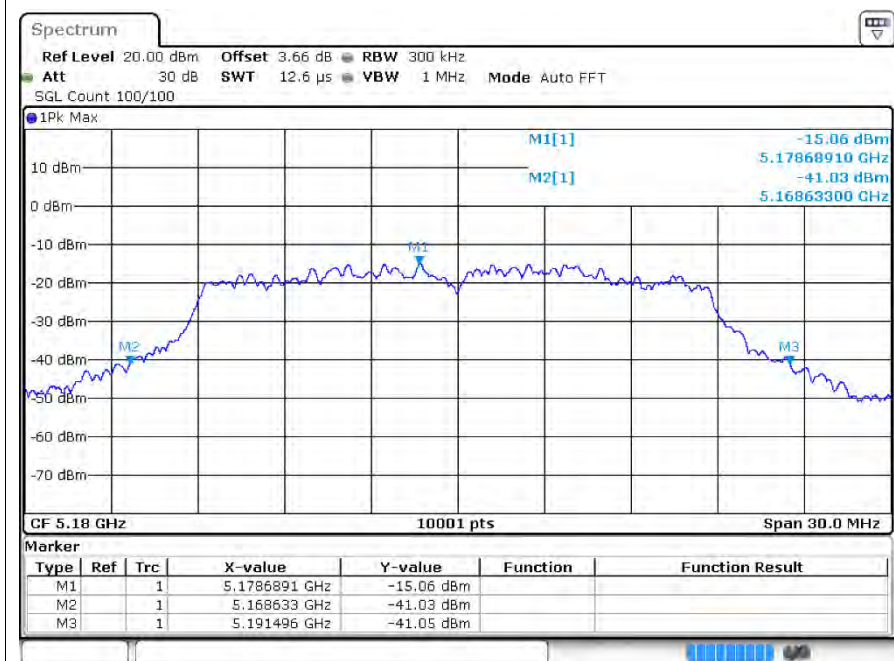
-26dB Bandwidtha 5600MHz Ant1



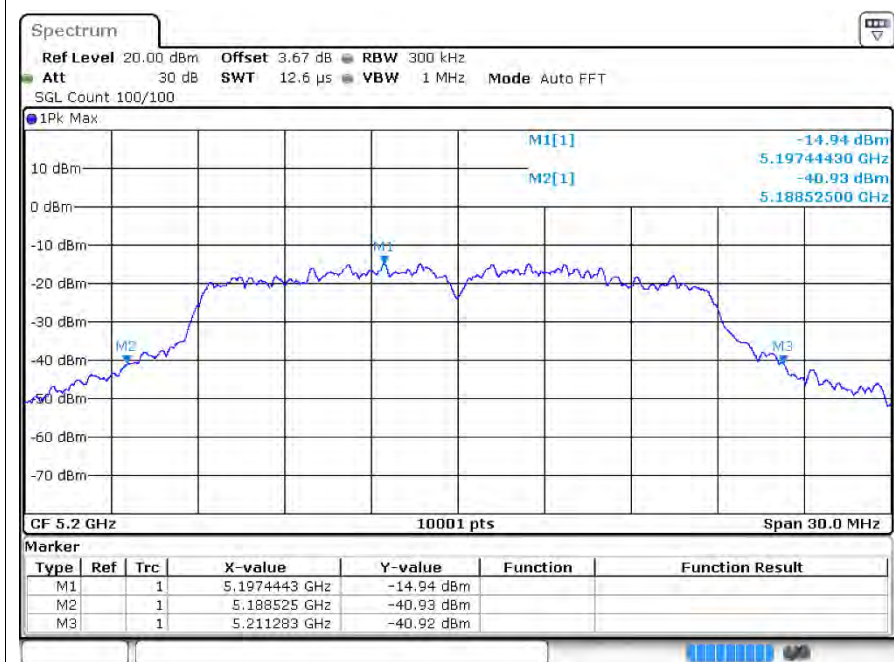




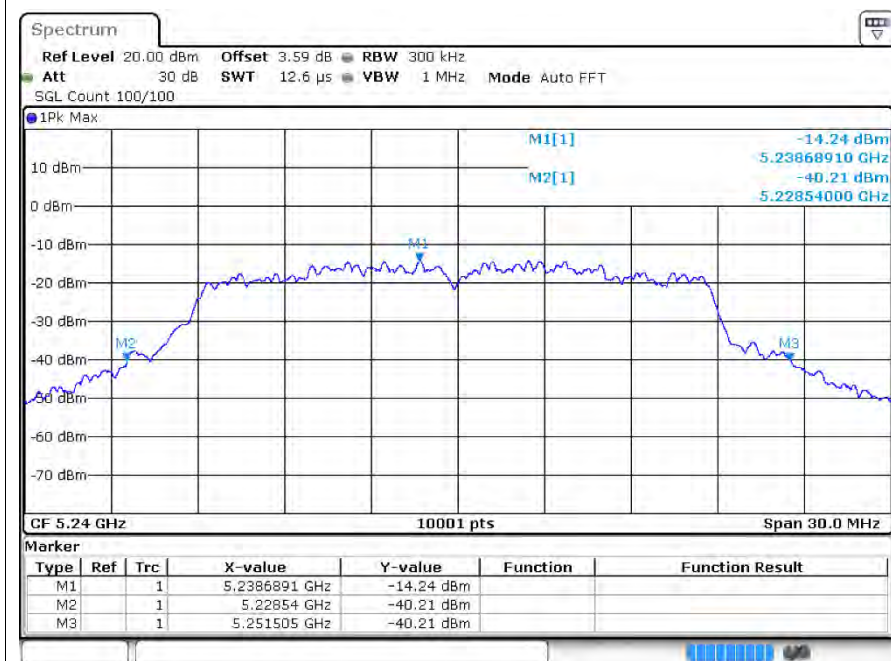
-26dB Bandwidth n20 5180MHz Ant1



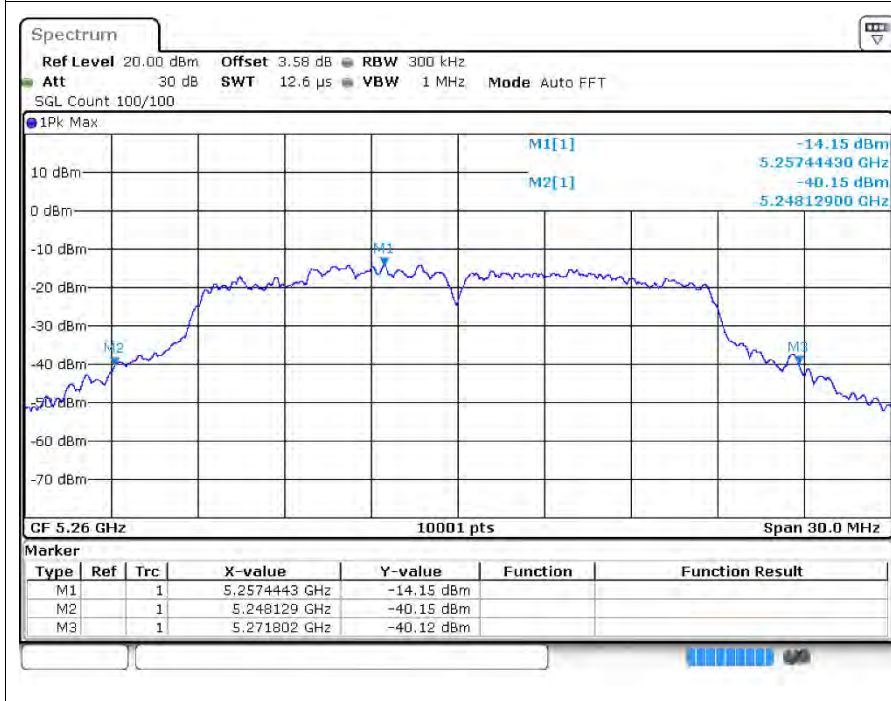
-26dB Bandwidth n20 5200MHz Ant1



-26dB Bandwidth n20 5240MHz Ant1

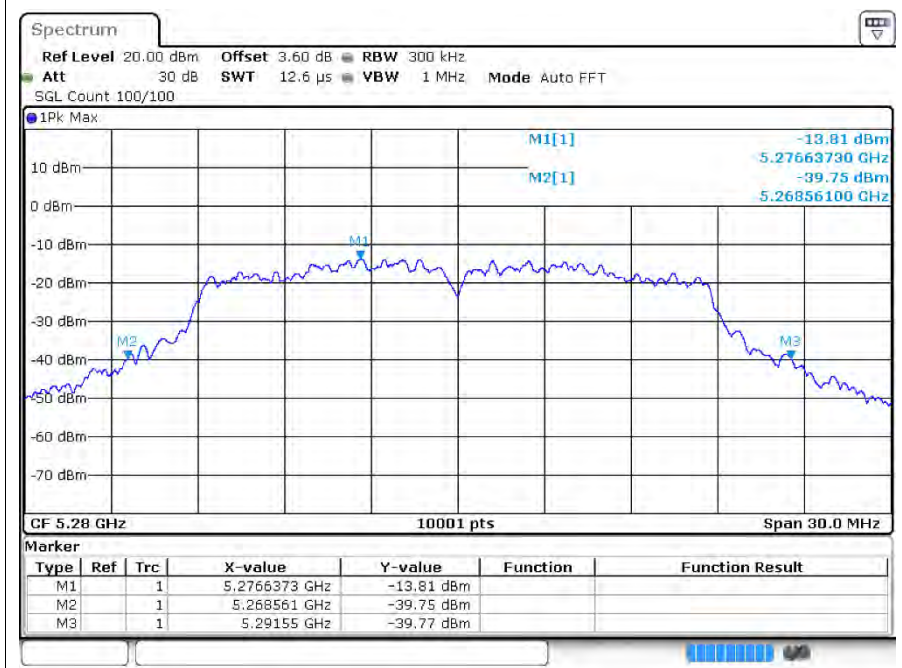


-26dB Bandwidth n20 5260MHz Ant1

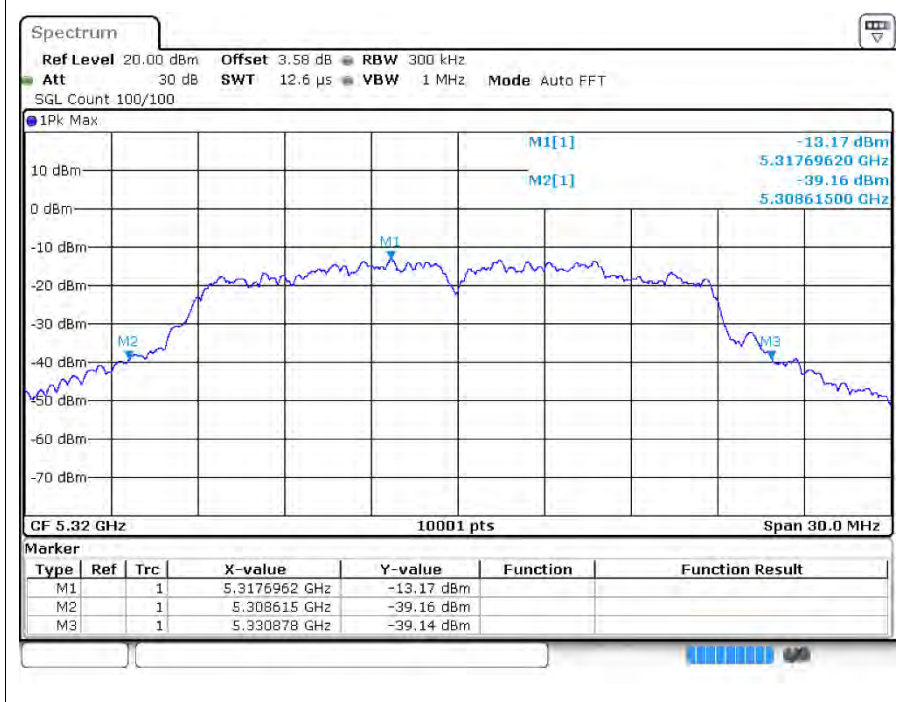


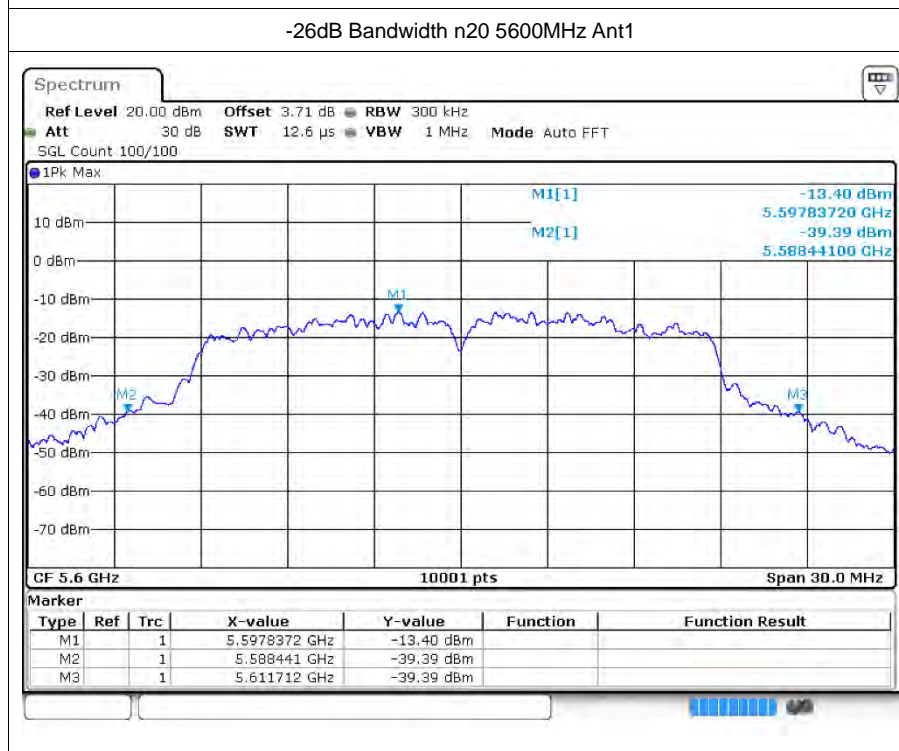
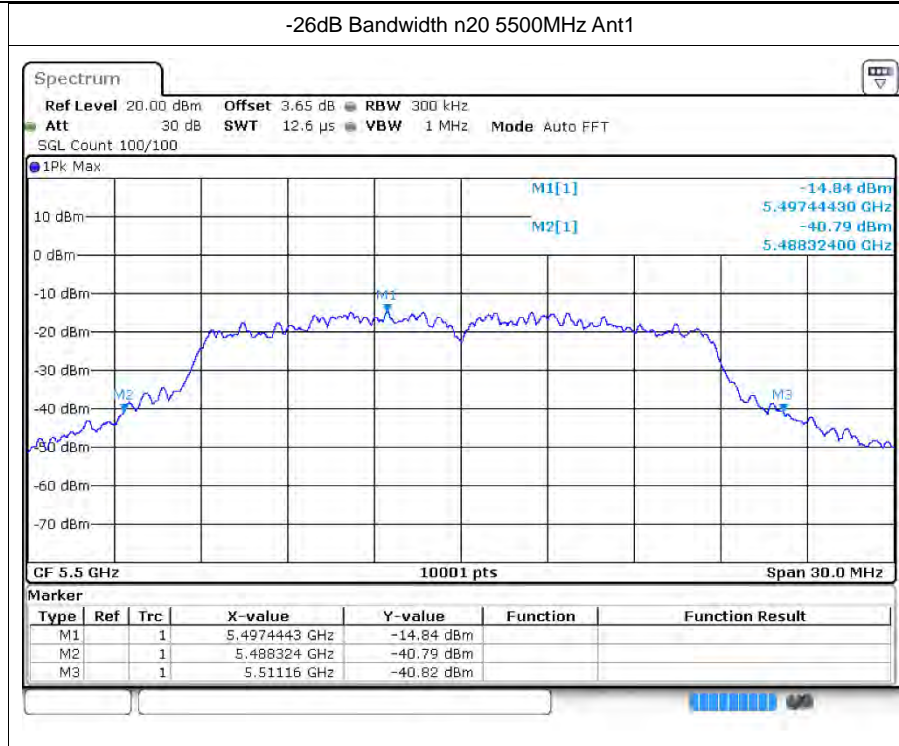


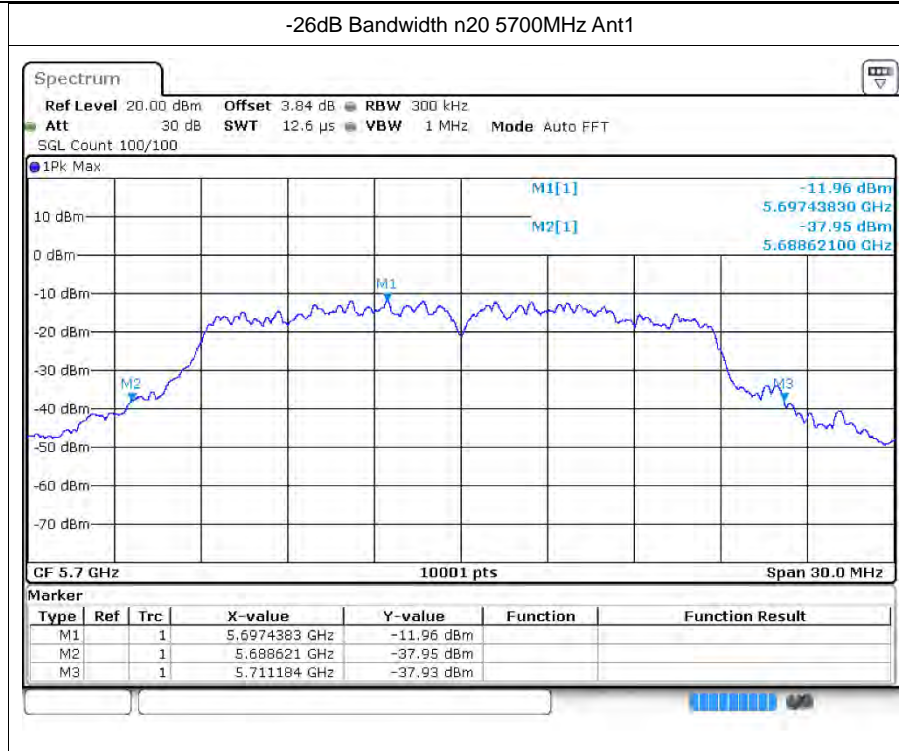
-26dB Bandwidth n20 5280MHz Ant1



-26dB Bandwidth n20 5320MHz Ant1

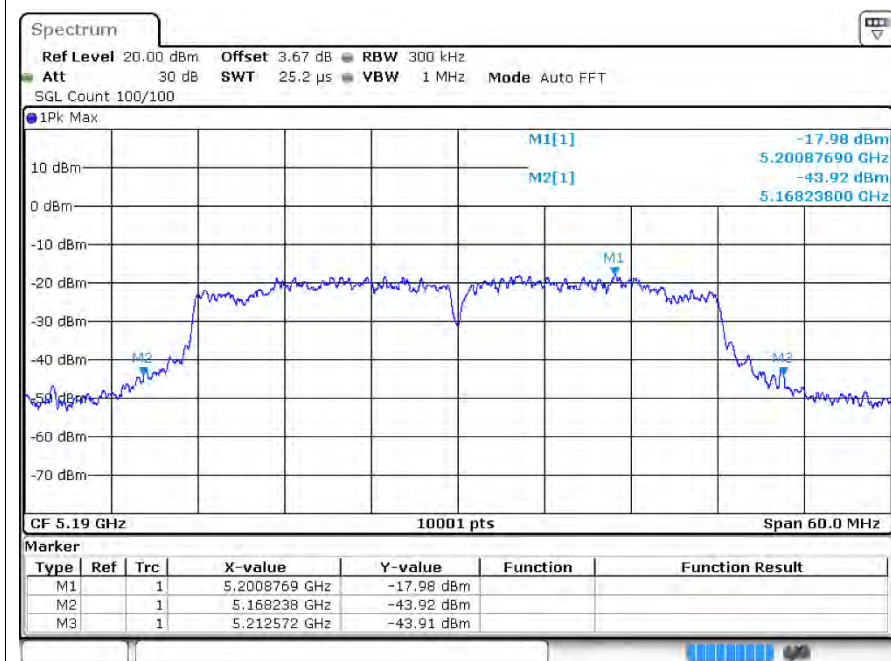




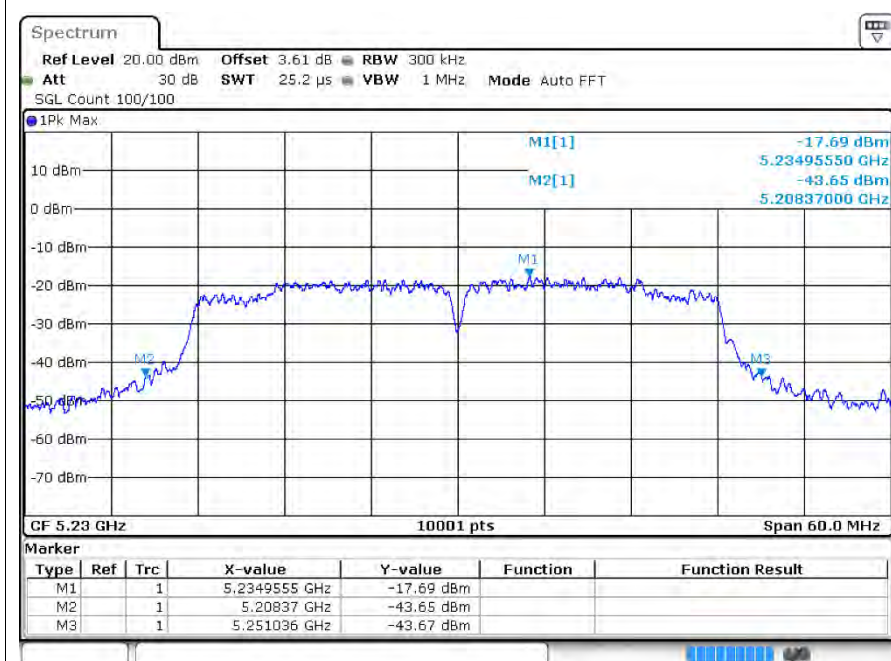




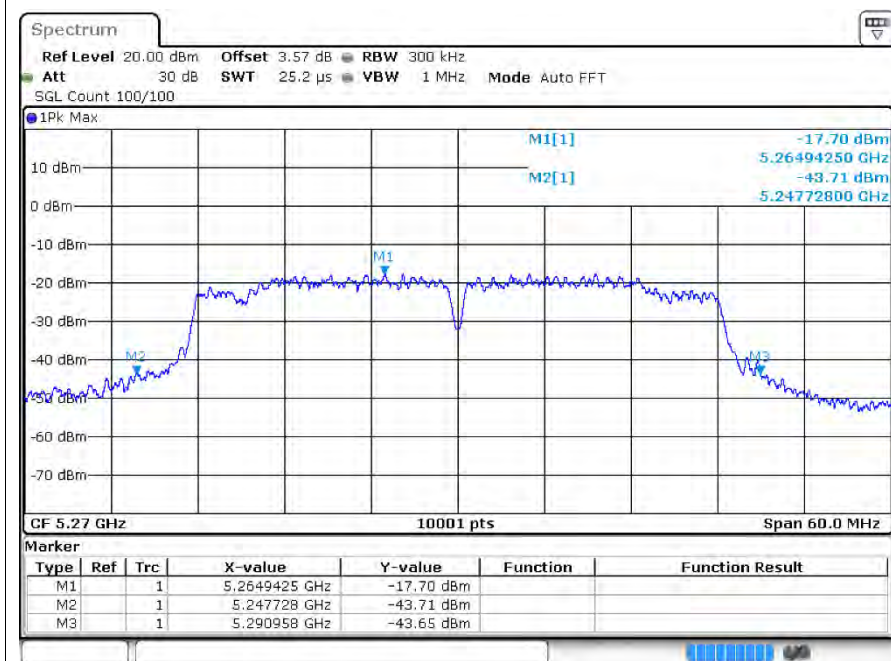
-26dB Bandwidthn40 5190MHz Ant1



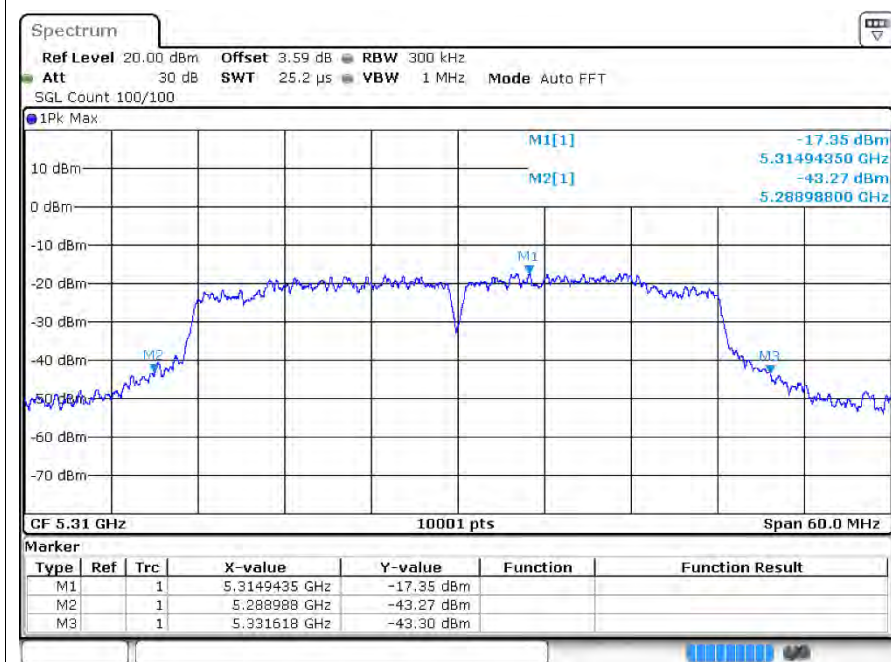
-26dB Bandwidthn40 5230MHz Ant1



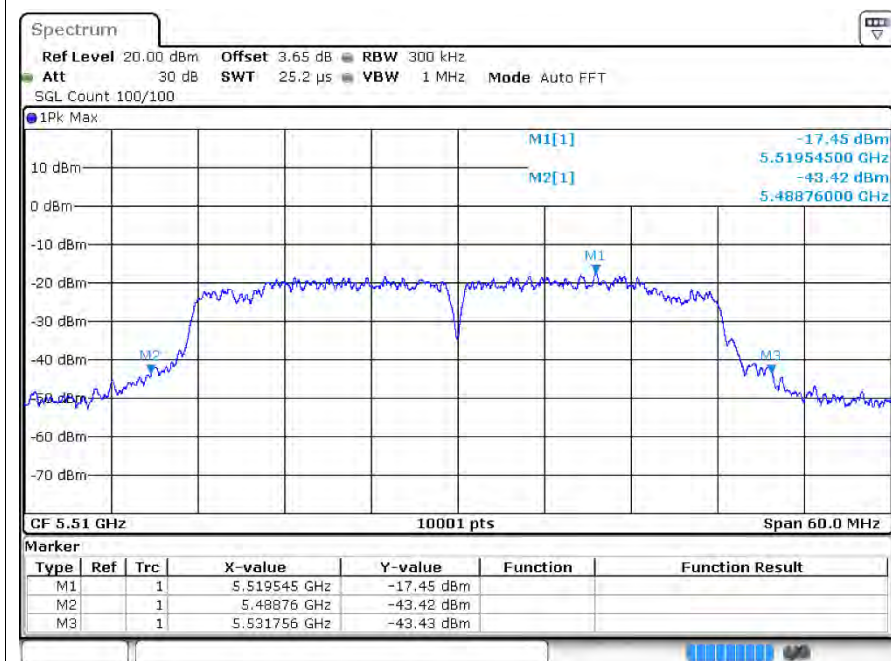
-26dB Bandwidth n40 5270MHz Ant1



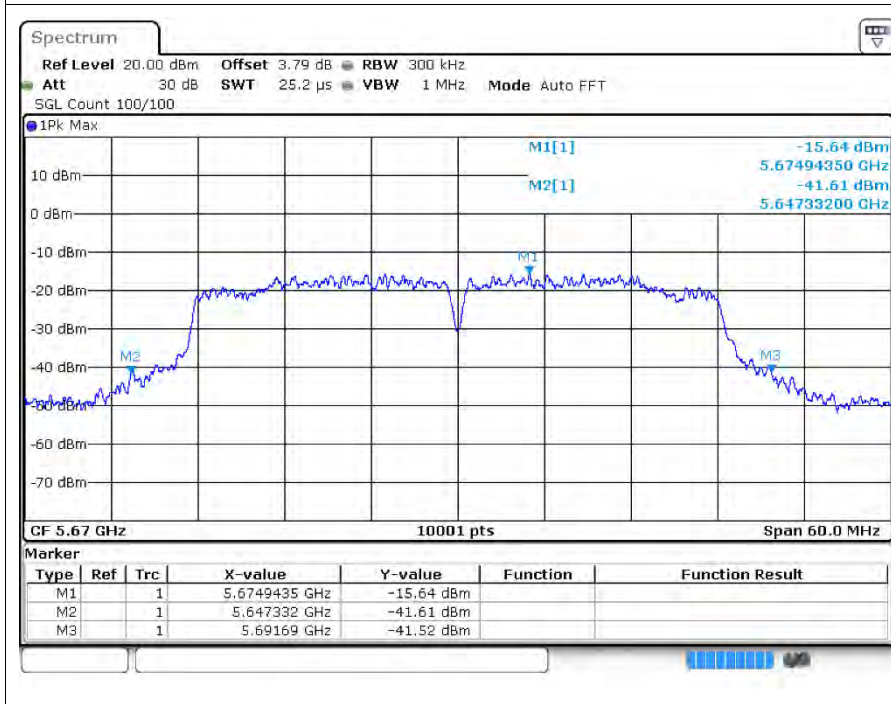
-26dB Bandwidth n40 5310MHz Ant1



-26dB Bandwidth40 5510MHz Ant1

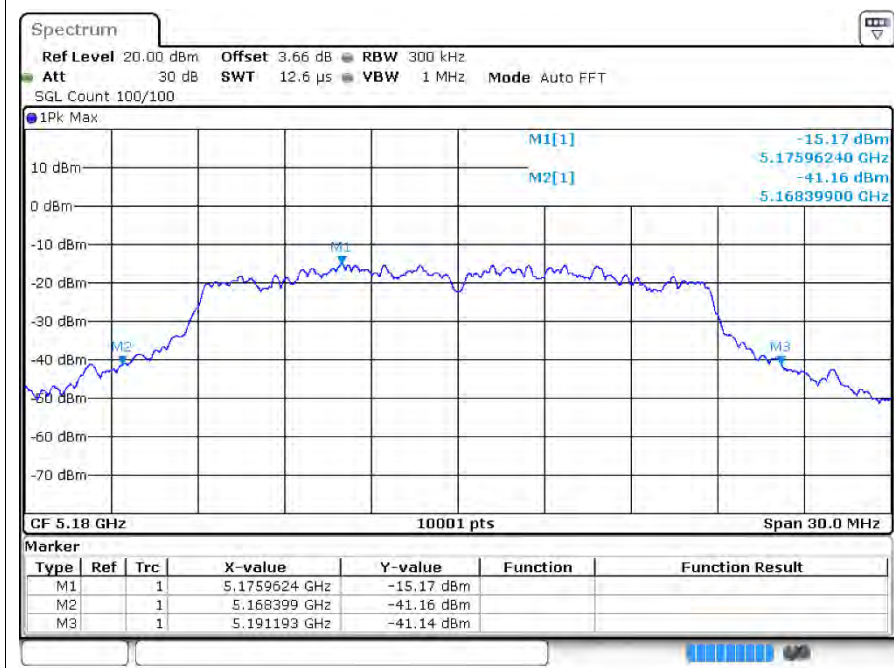


-26dB Bandwidth n40 5670MHz Ant1

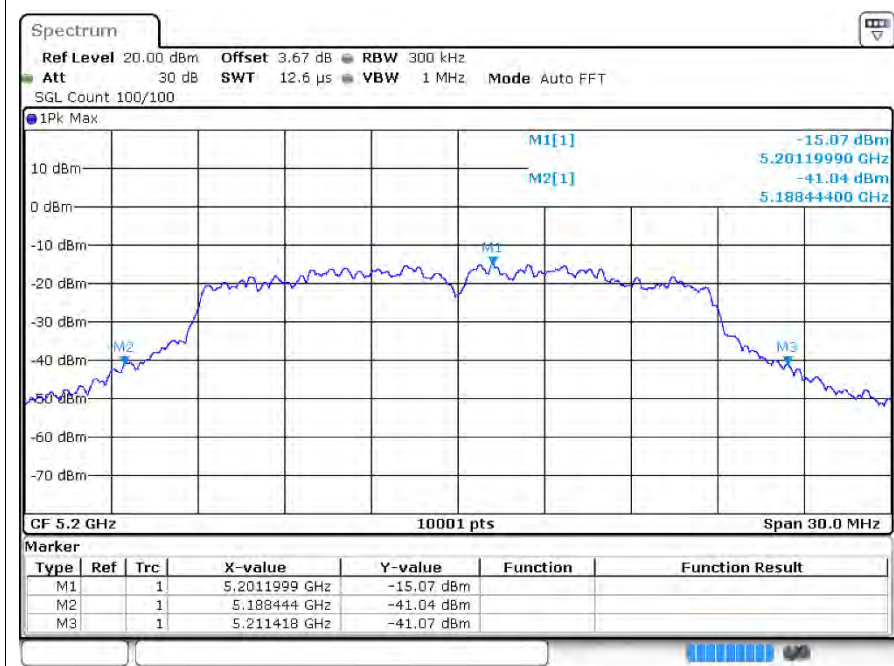




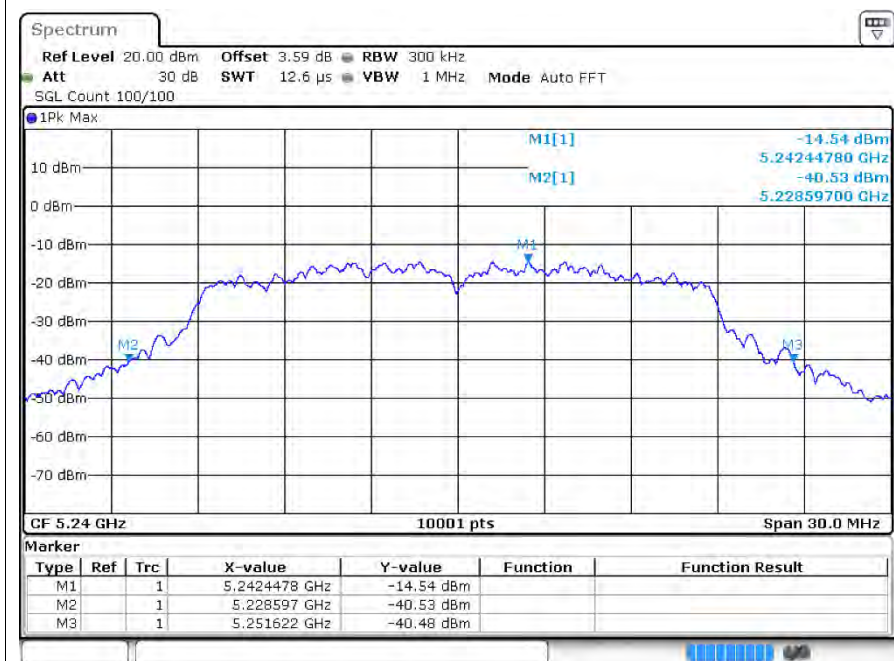
-26dB Bandwidth ac20 5180MHz Ant1



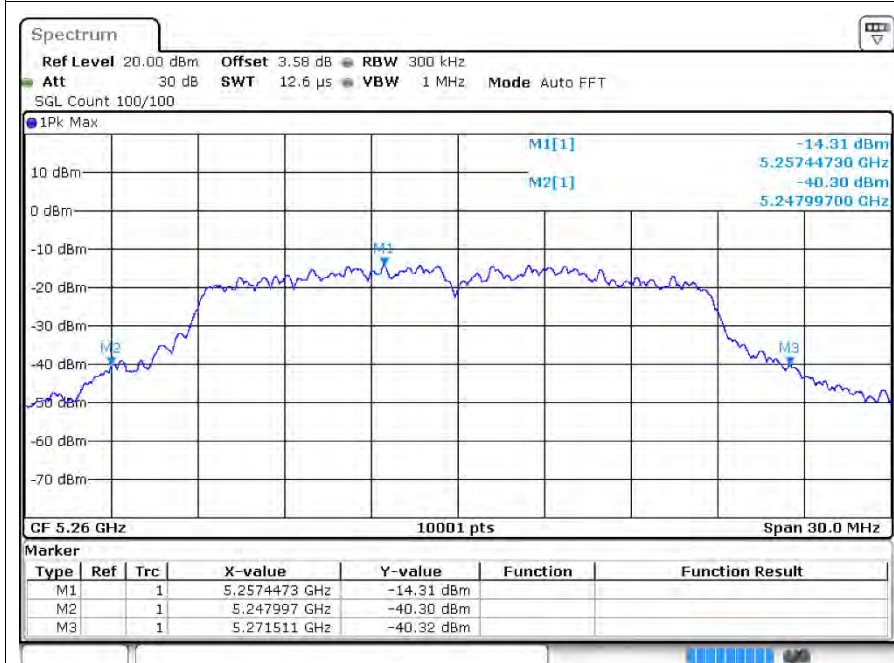
-26dB Bandwidth ac20 5200MHz Ant1



-26dB Bandwidth ac20 5240MHz Ant1

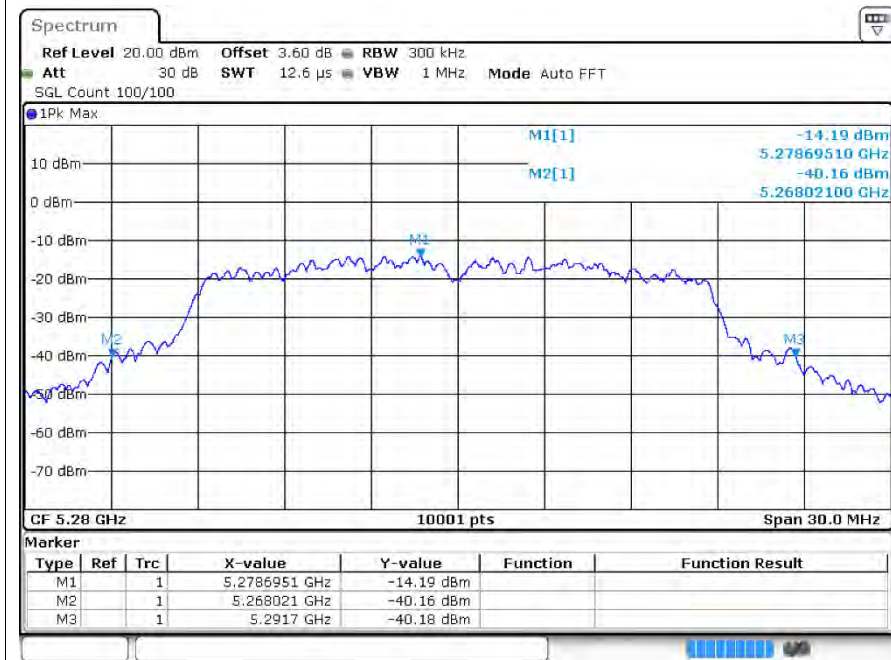


-26dB Bandwidth ac20 5260MHz Ant1

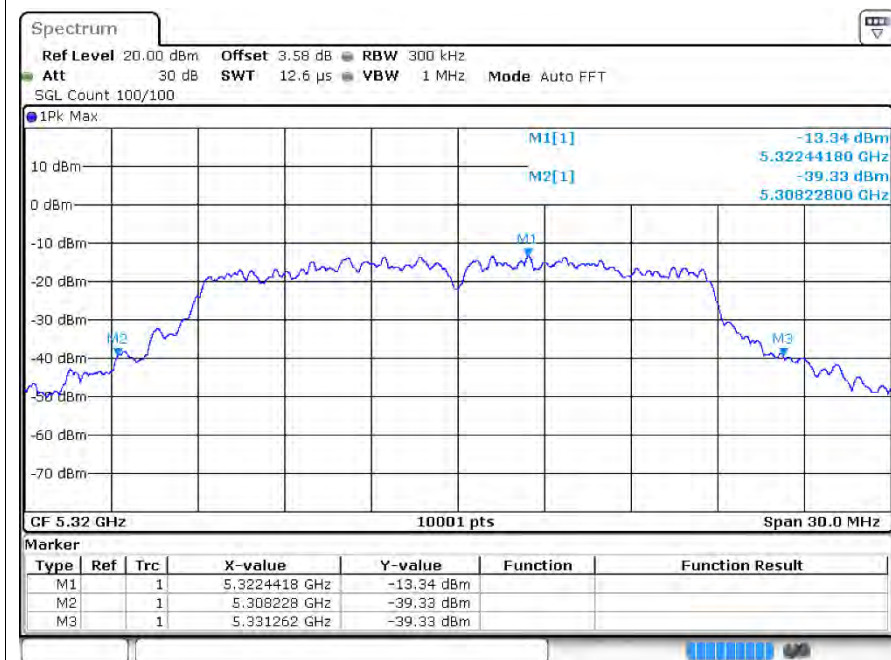




-26dB Bandwidth ac20 5280MHz Ant1

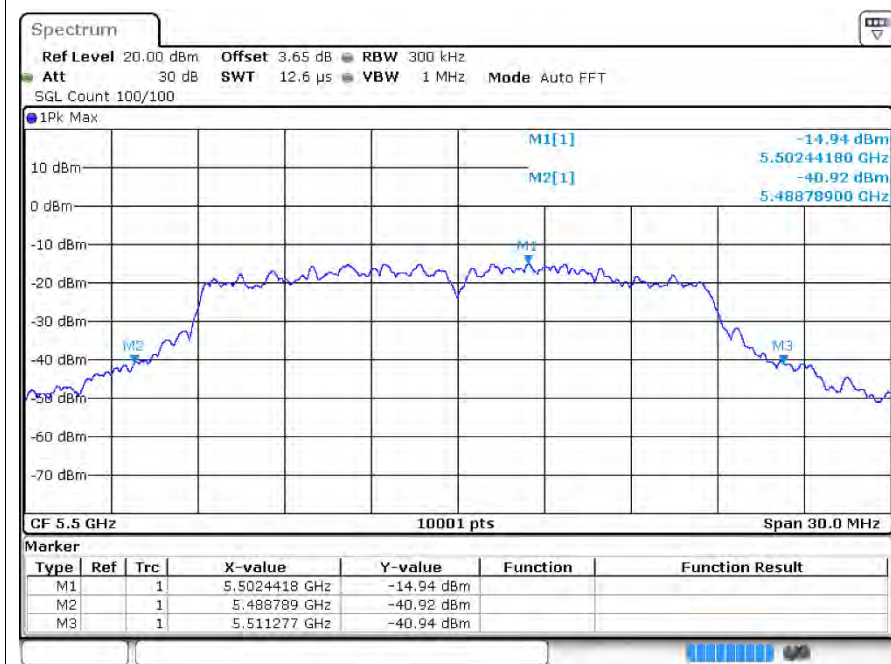


-26dB Bandwidth ac20 5320MHz Ant1

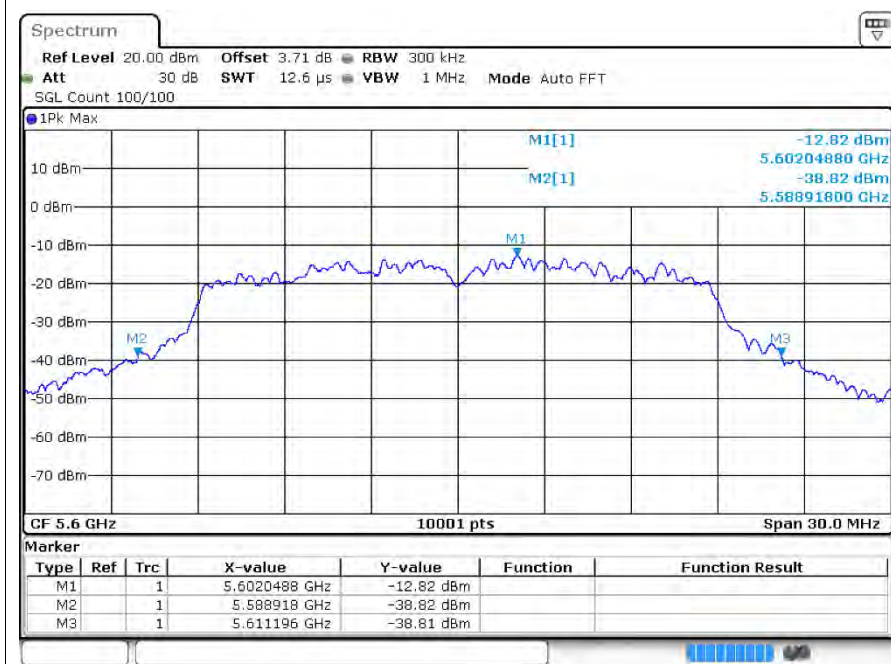


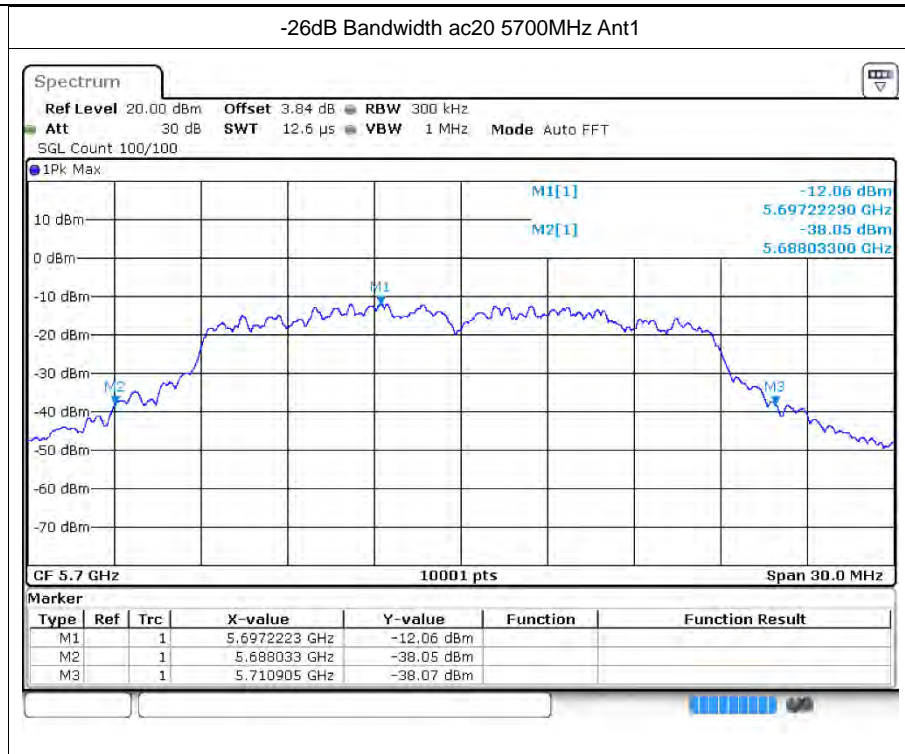


-26dB Bandwidth ac20 5500MHz Ant1



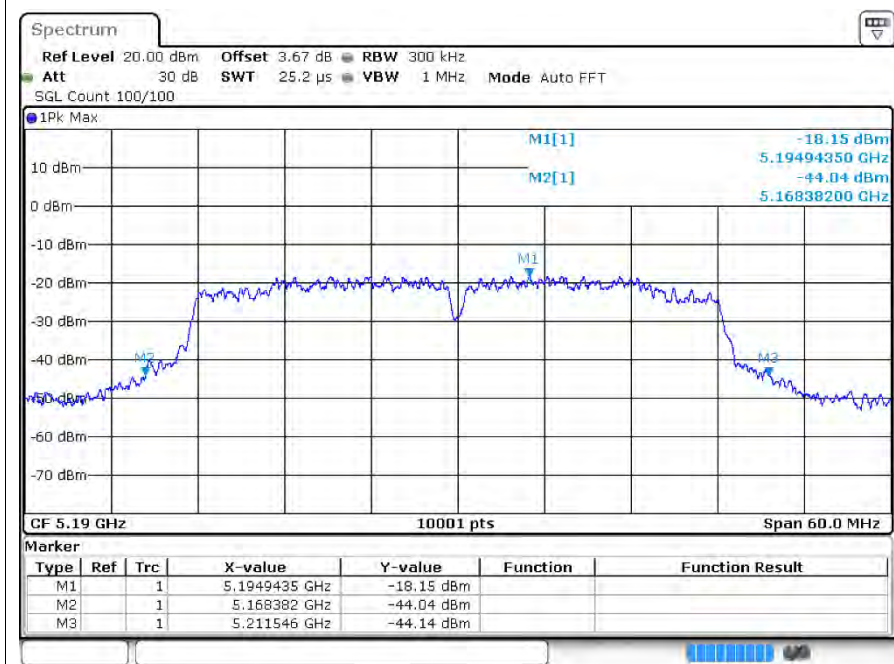
-26dB Bandwidth ac20 5600MHz Ant1



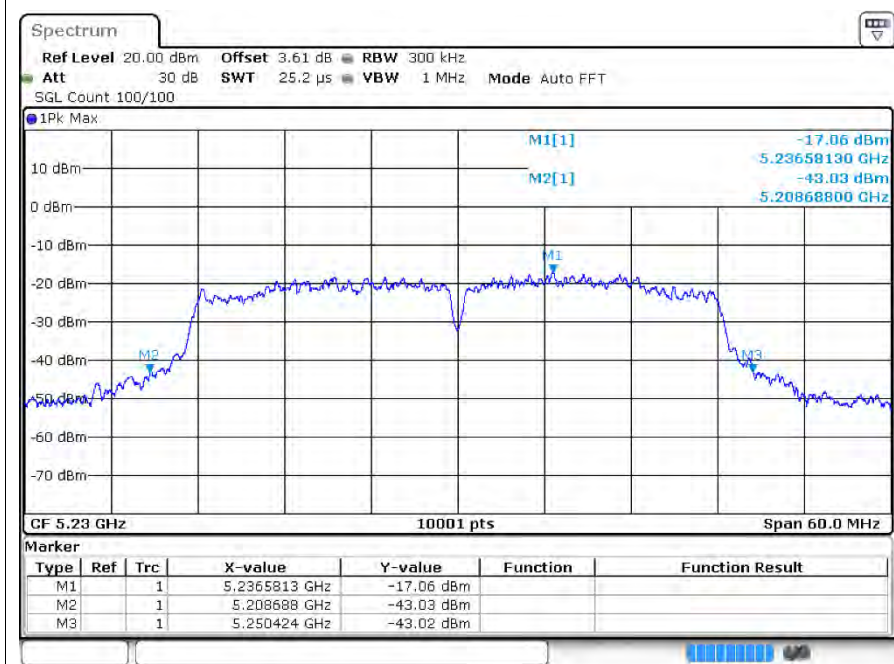




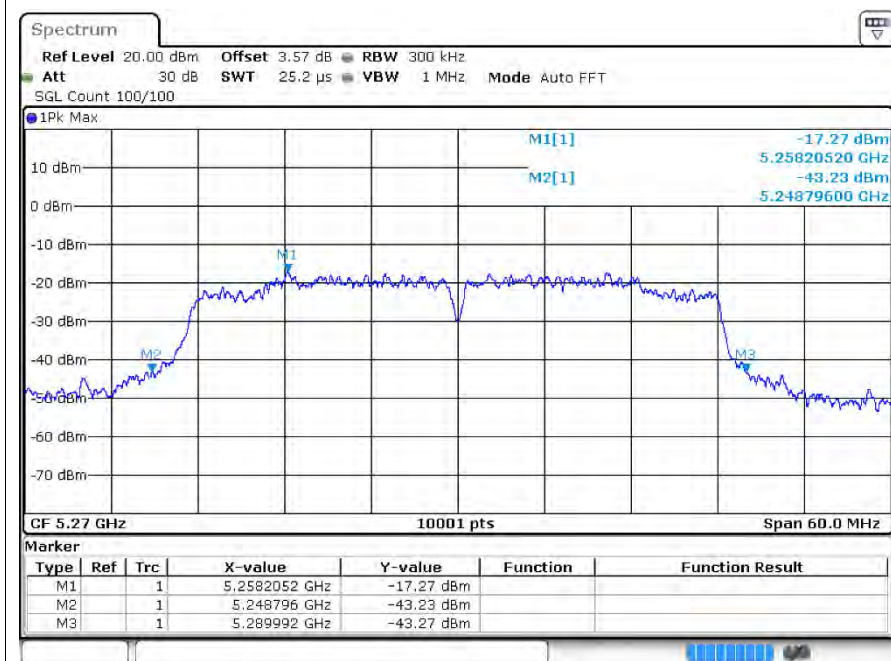
-26dB Bandwidthac40 5190MHz Ant1



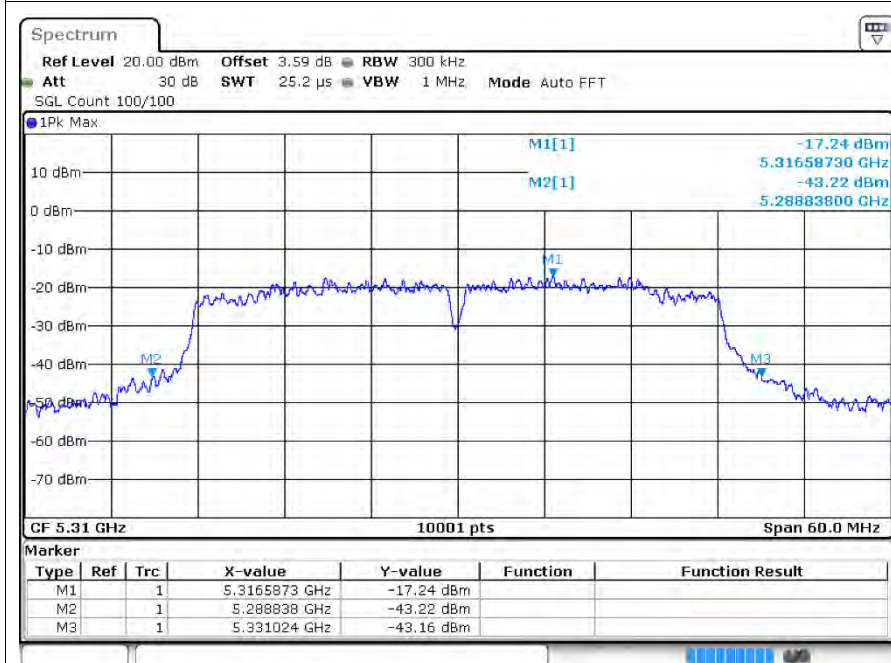
-26dB Bandwidthac40 5230MHz Ant1



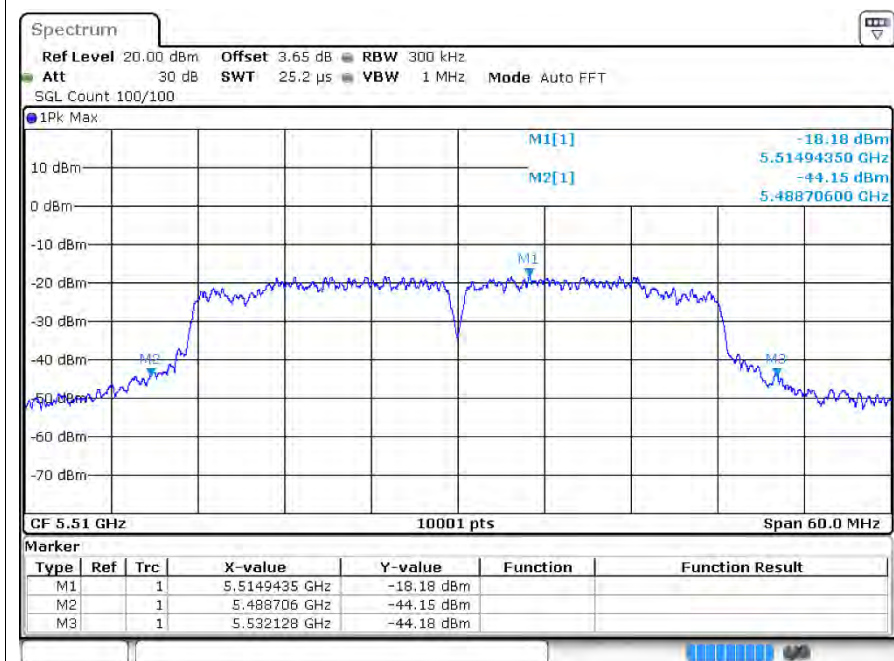
-26dB Bandwidth ac40 5270MHz Ant1



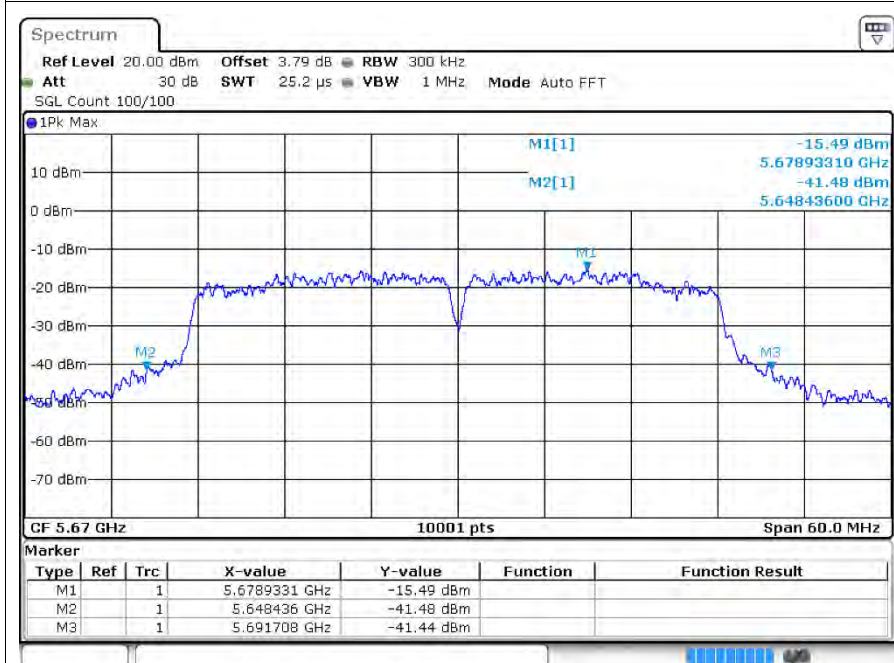
-26dB Bandwidth ac40 5310MHz Ant1



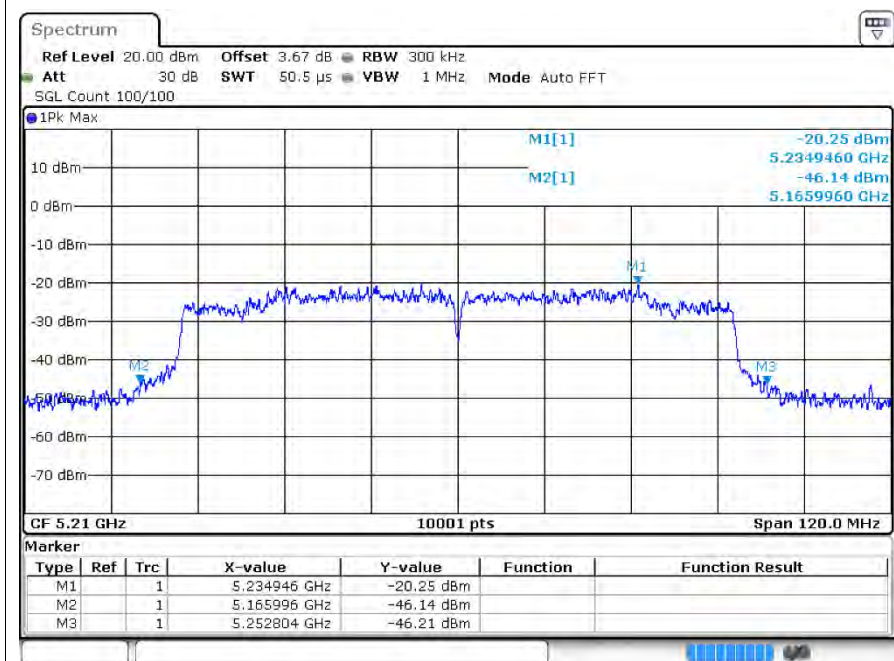
-26dB Bandwidth ac40 5510MHz Ant1



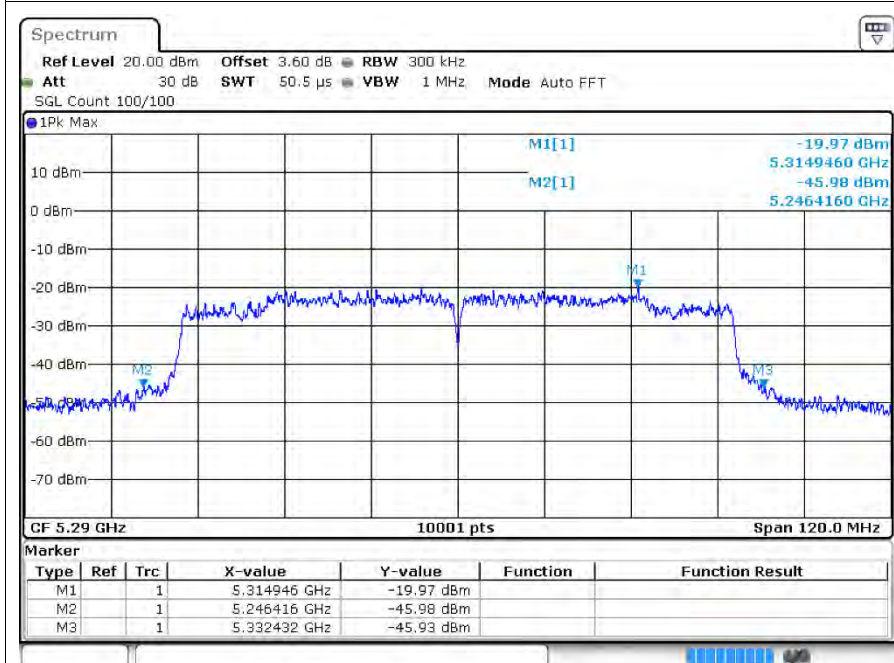
-26dB Bandwidth ac40 5670MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1

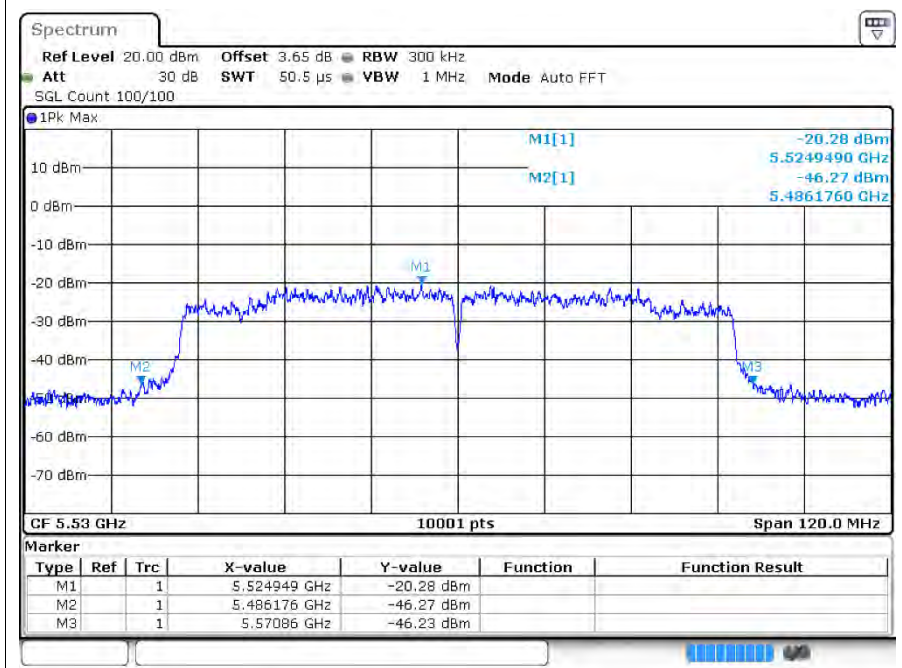


-26dB Bandwidthac80 5290MHz Ant1

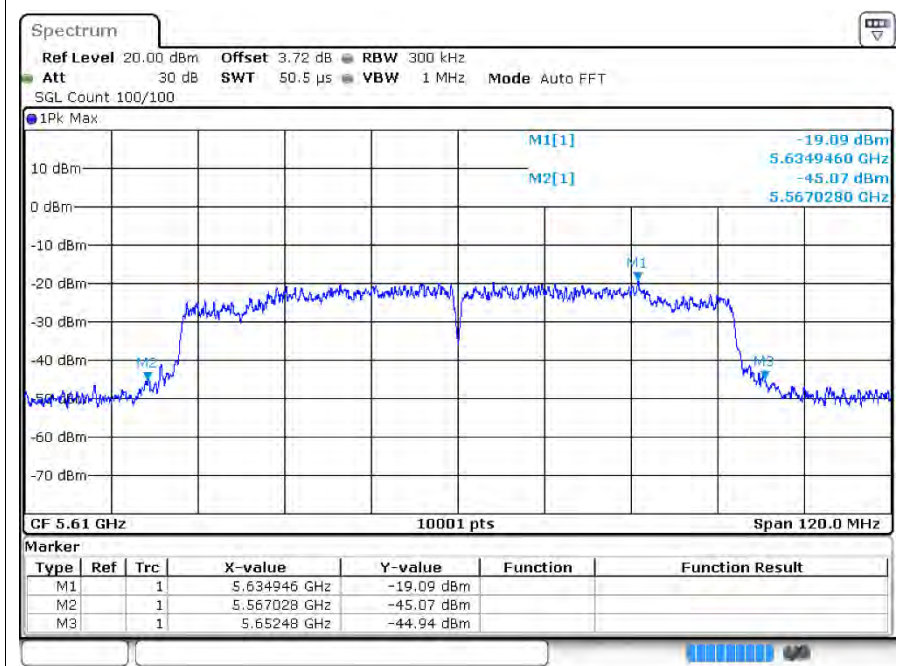




-26dB Bandwidth ac80 5530MHz Ant1



-26dB Bandwidth ac80 5610MHz Ant1





4 Occupied Channel Bandwidth

4.1 Test Result

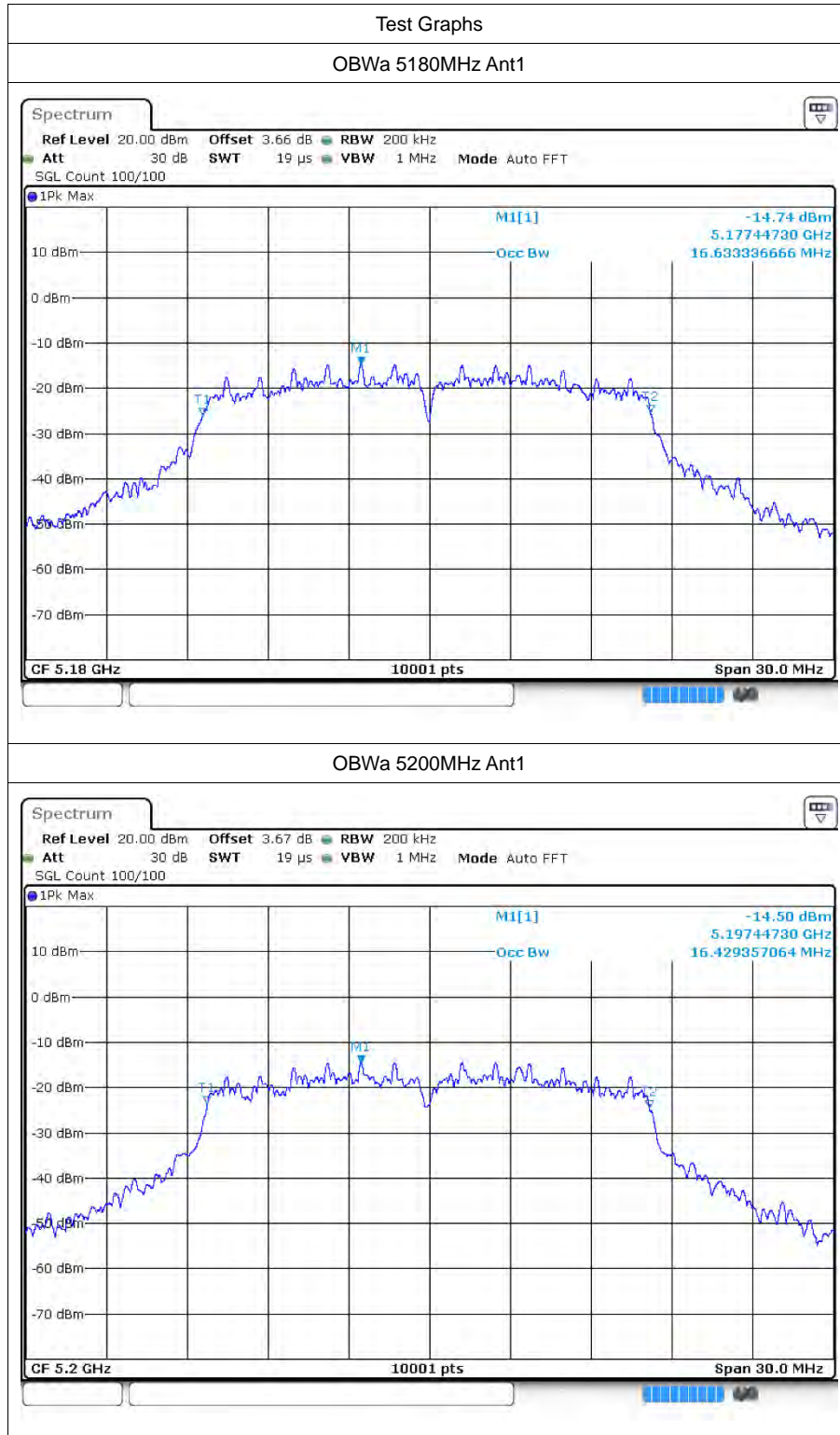
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.633
a	5200	Ant1	16.429
a	5240	Ant1	16.396
a	5260	Ant1	16.6
a	5280	Ant1	16.441
a	5320	Ant1	16.483
a	5500	Ant1	16.426
a	5600	Ant1	16.471
a	5700	Ant1	16.462
n20	5180	Ant1	17.587
n20	5200	Ant1	17.611
n20	5240	Ant1	17.608
n20	5260	Ant1	17.629
n20	5280	Ant1	17.611
n20	5320	Ant1	17.635
n20	5500	Ant1	17.539
n20	5600	Ant1	17.632
n20	5700	Ant1	17.68
n40	5190	Ant1	36.068
n40	5230	Ant1	36.08
n40	5270	Ant1	36.008
n40	5310	Ant1	35.984
n40	5510	Ant1	36.164
n40	5670	Ant1	36.008
ac20	5180	Ant1	17.623
ac20	5200	Ant1	17.614
ac20	5240	Ant1	17.608
ac20	5260	Ant1	17.611
ac20	5280	Ant1	17.644
ac20	5320	Ant1	17.572
ac20	5500	Ant1	17.638
ac20	5600	Ant1	17.539
ac20	5700	Ant1	17.674
ac40	5190	Ant1	36.134
ac40	5230	Ant1	35.99
ac40	5270	Ant1	36.038

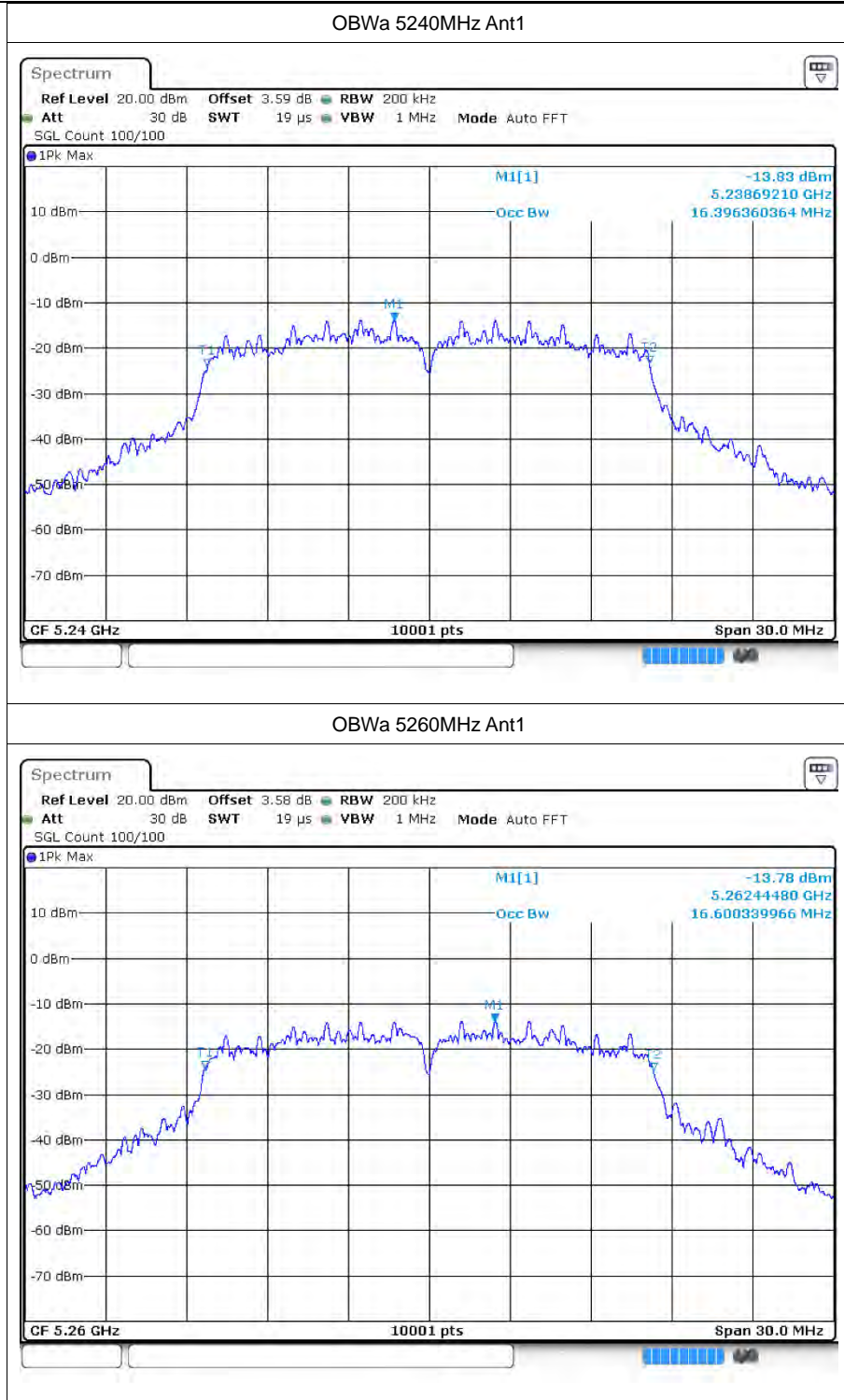


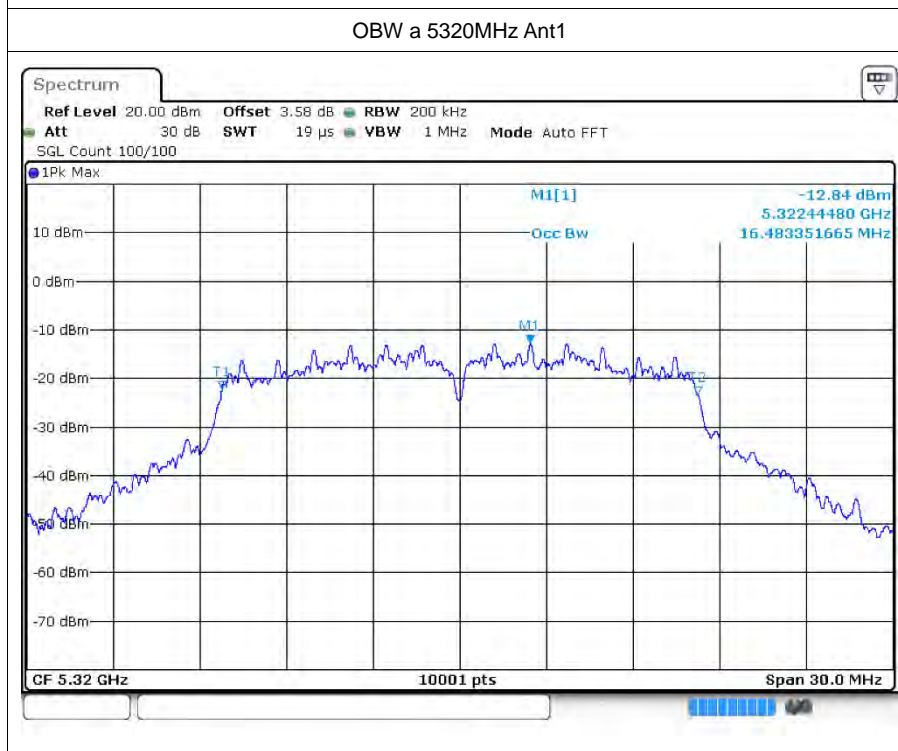
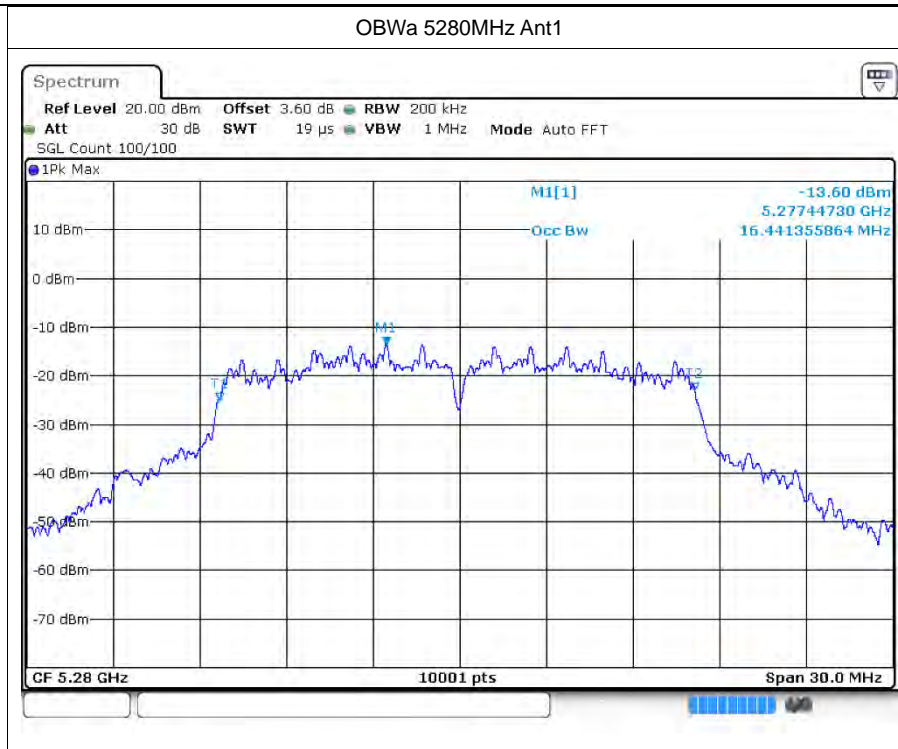
ac40	5310	Ant1	36.182
ac40	5510	Ant1	35.99
ac40	5670	Ant1	36.128
ac80	5210	Ant1	75.4
ac80	5290	Ant1	75.268
ac80	5530	Ant1	75.472
ac80	5610	Ant1	75.244

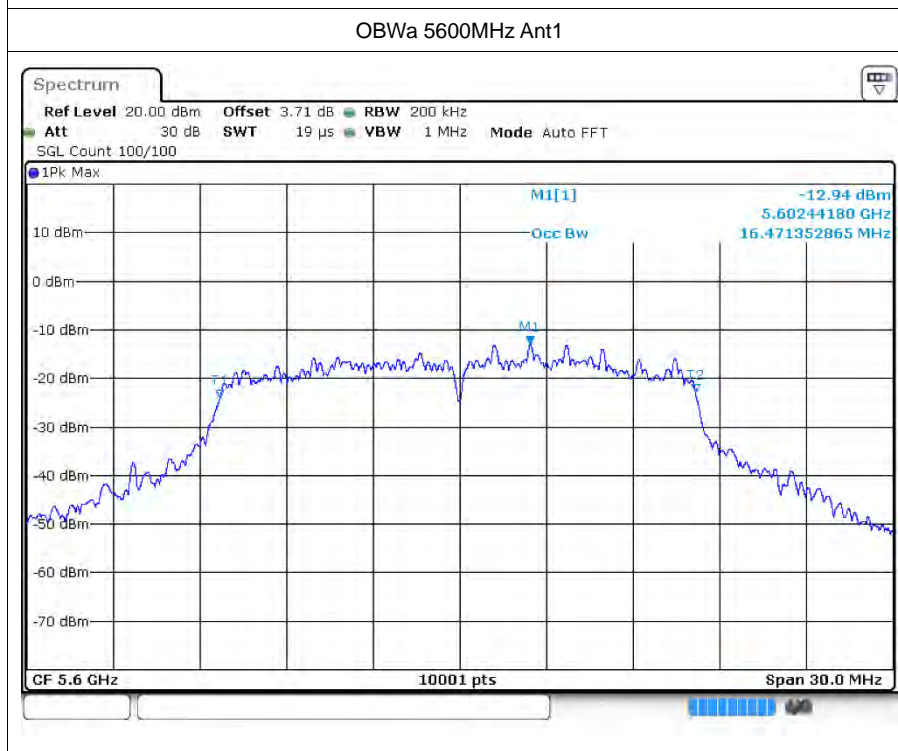
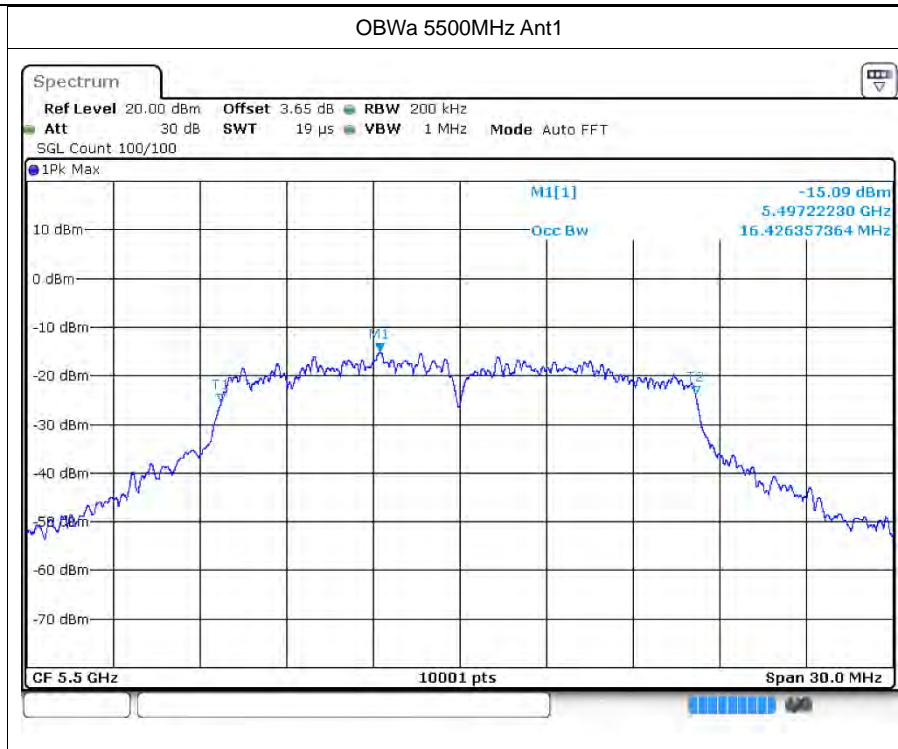


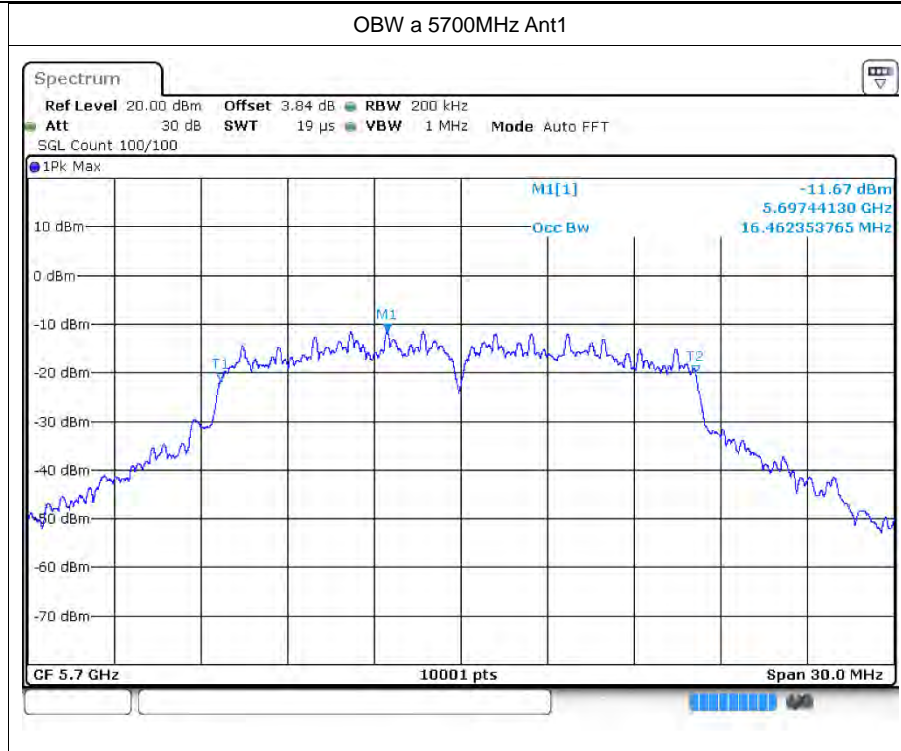
4.2 Test Graphs





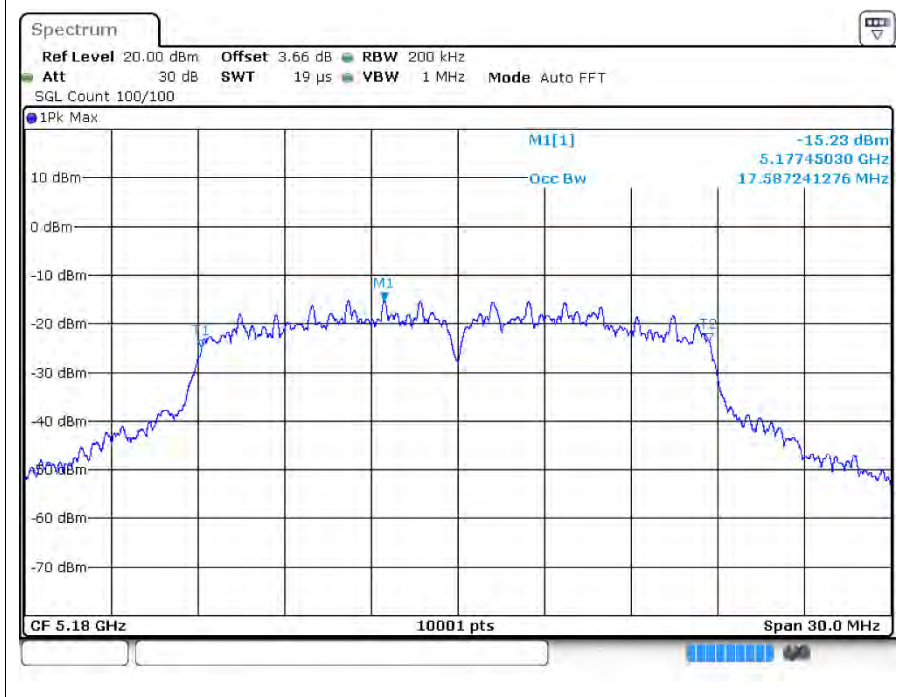




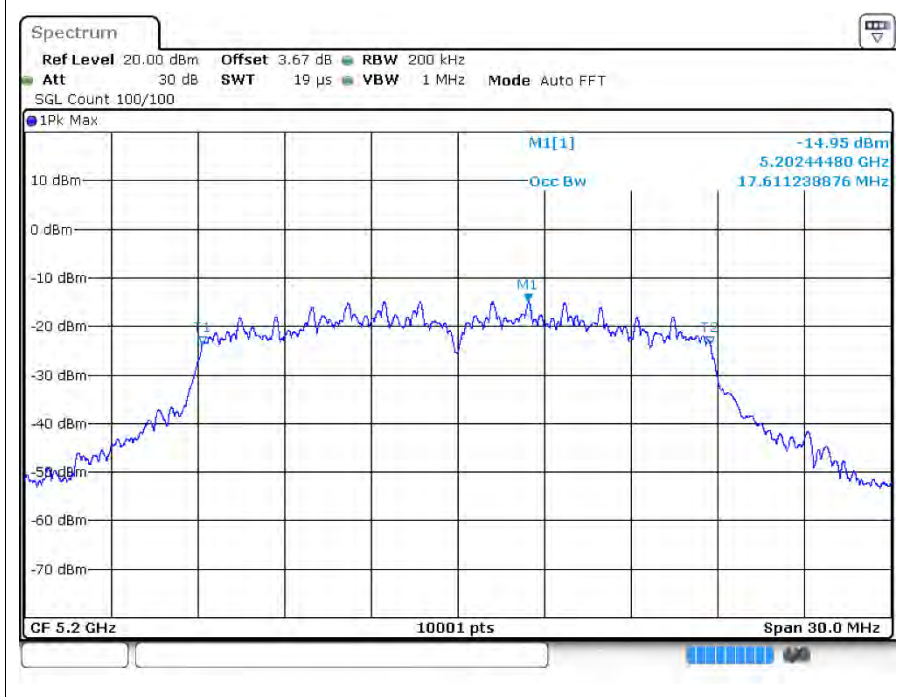




OBW n20 5180MHz Ant1

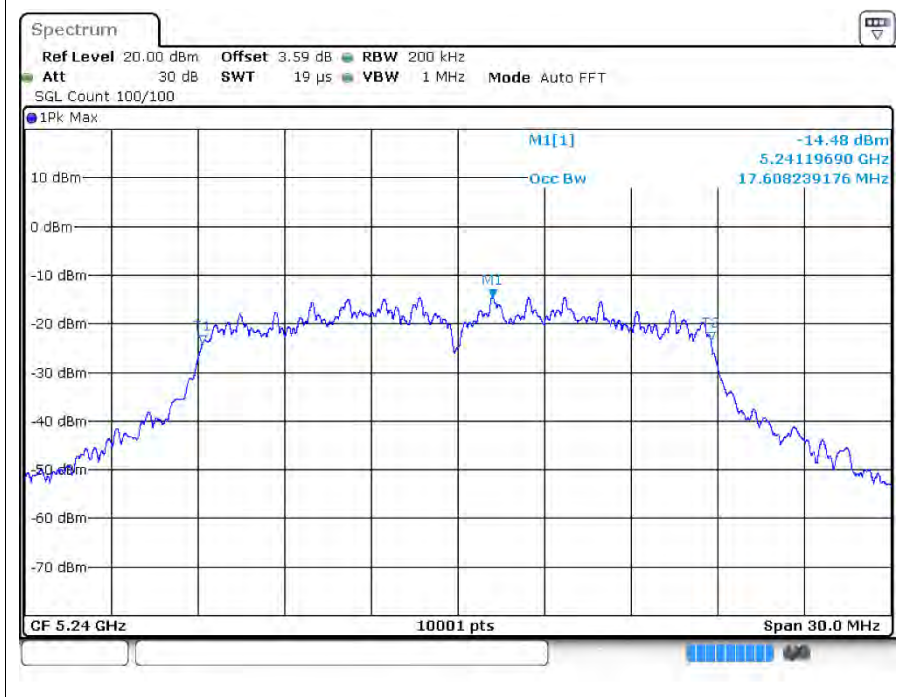


OBW n20 5200MHz Ant1

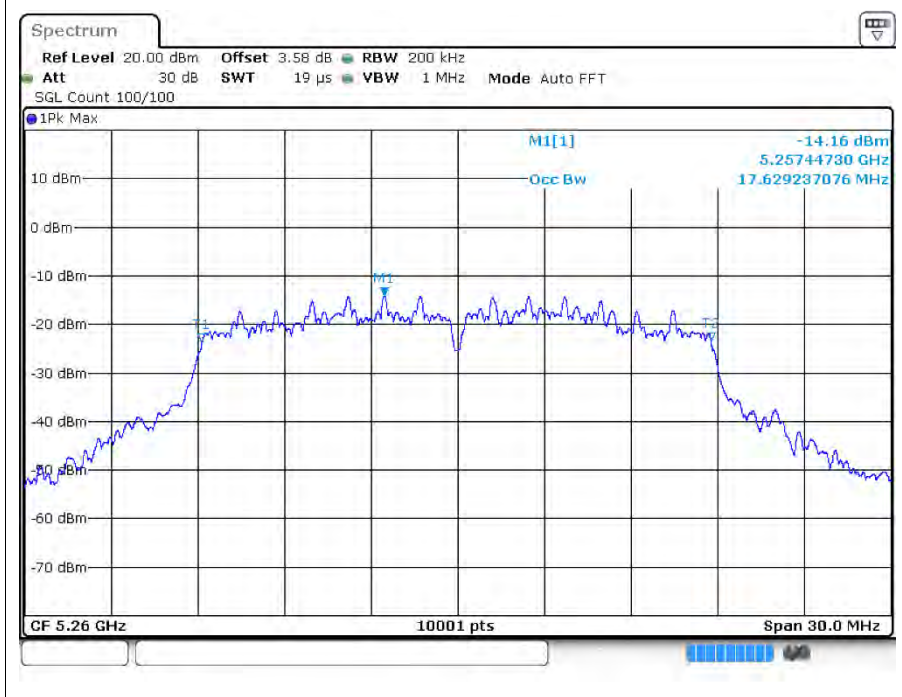




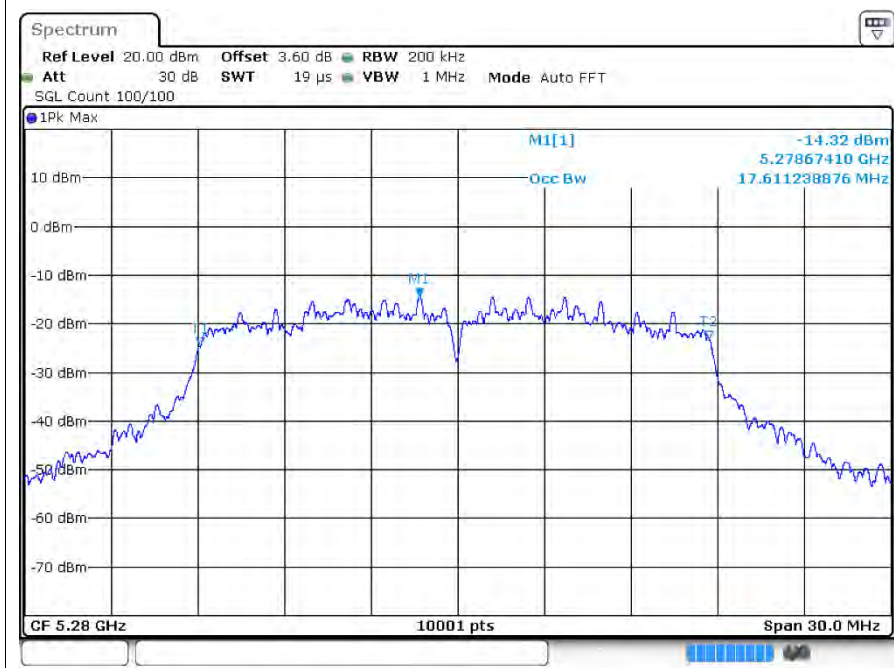
OBW n20 5240MHz Ant1



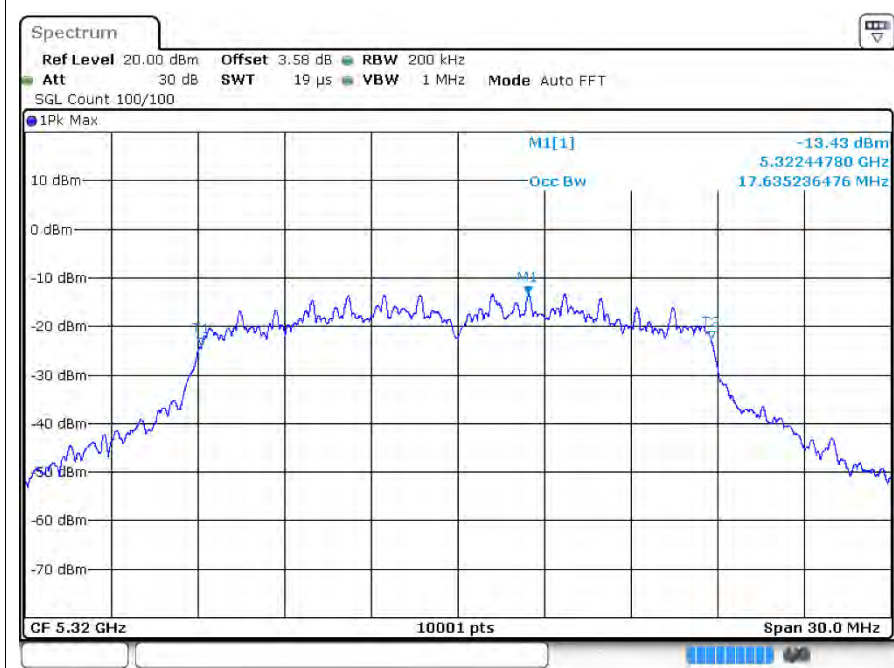
OBW n20 5260MHz Ant1

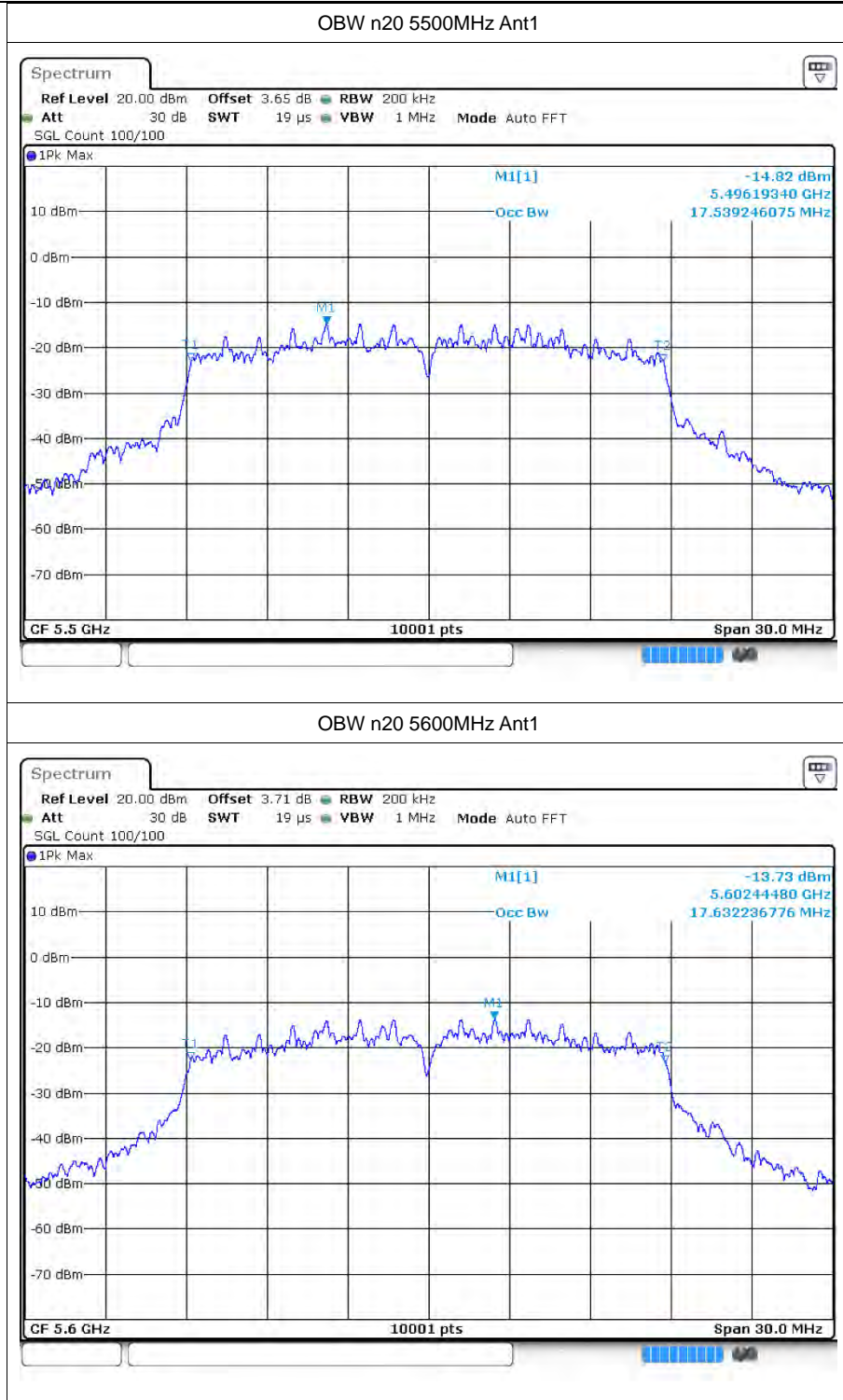


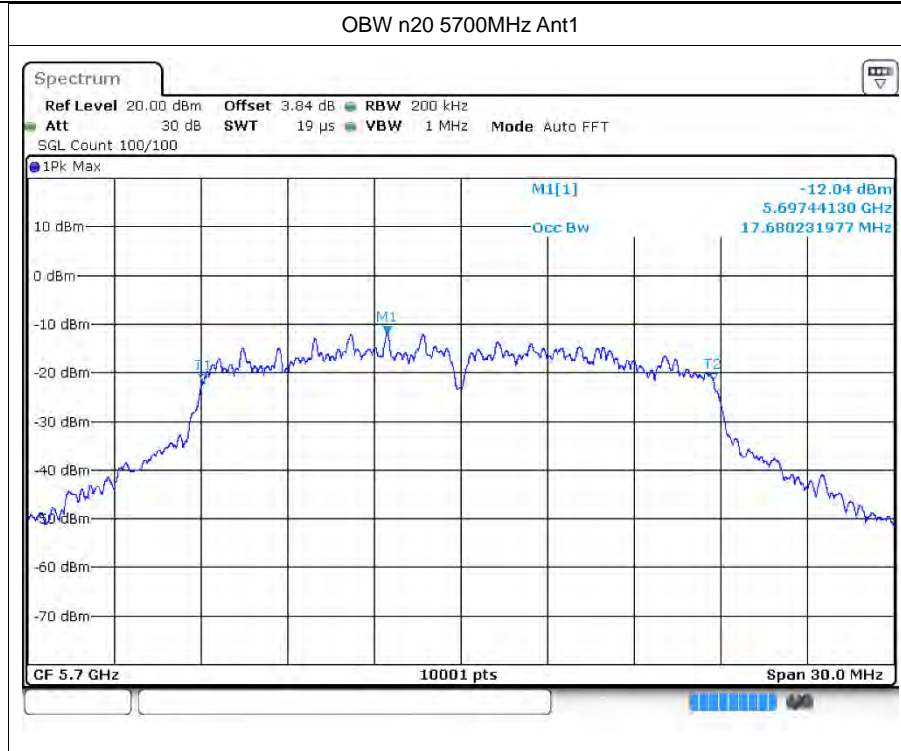
OBW n20 5280MHz Ant1

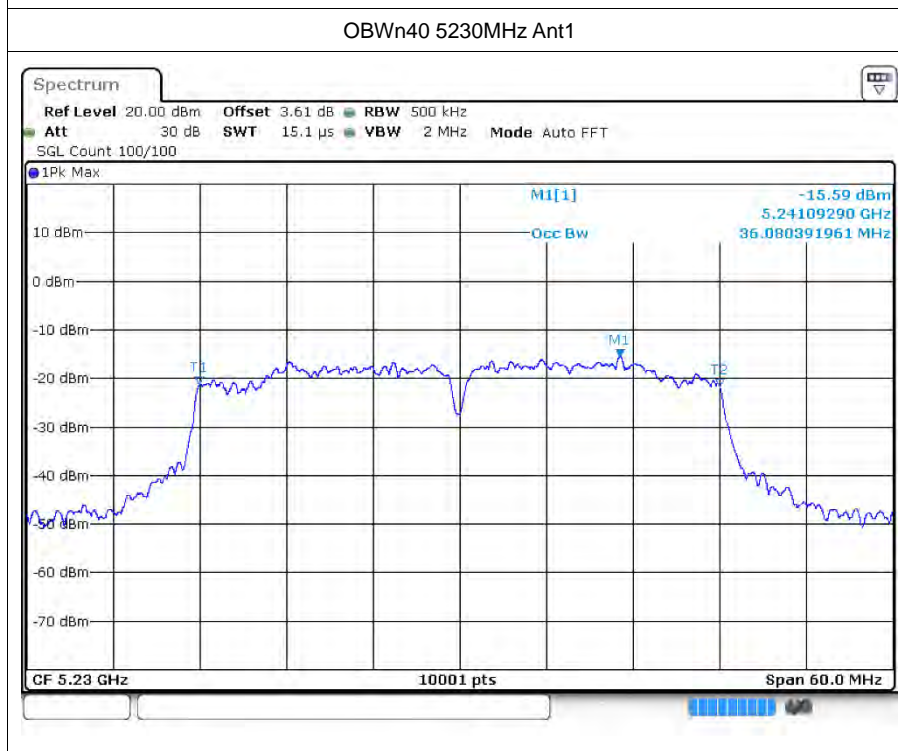
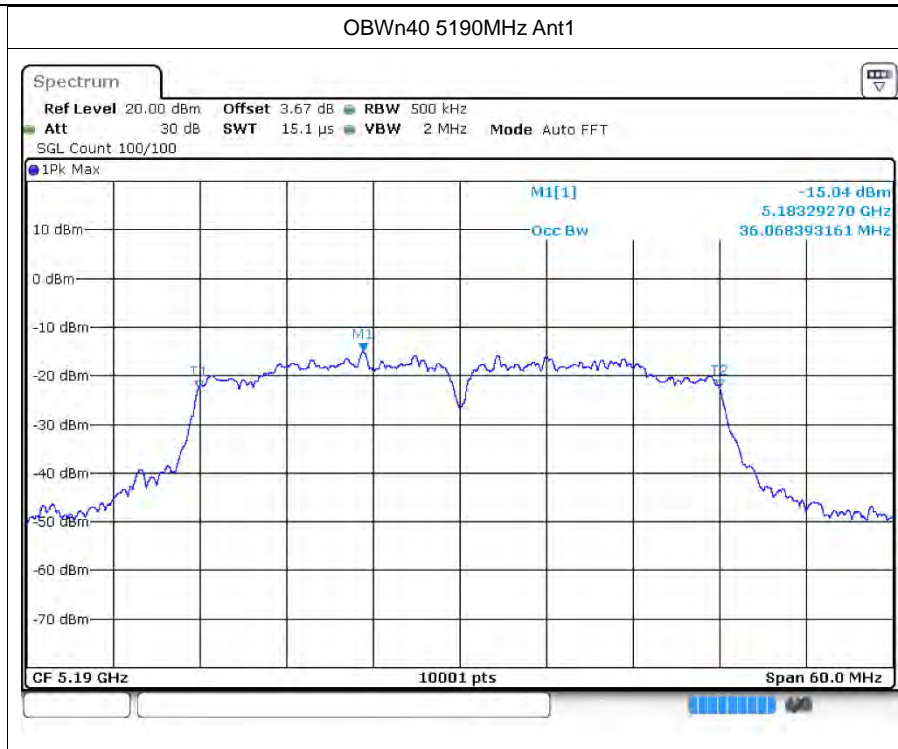


OBW n20 5320MHz Ant1



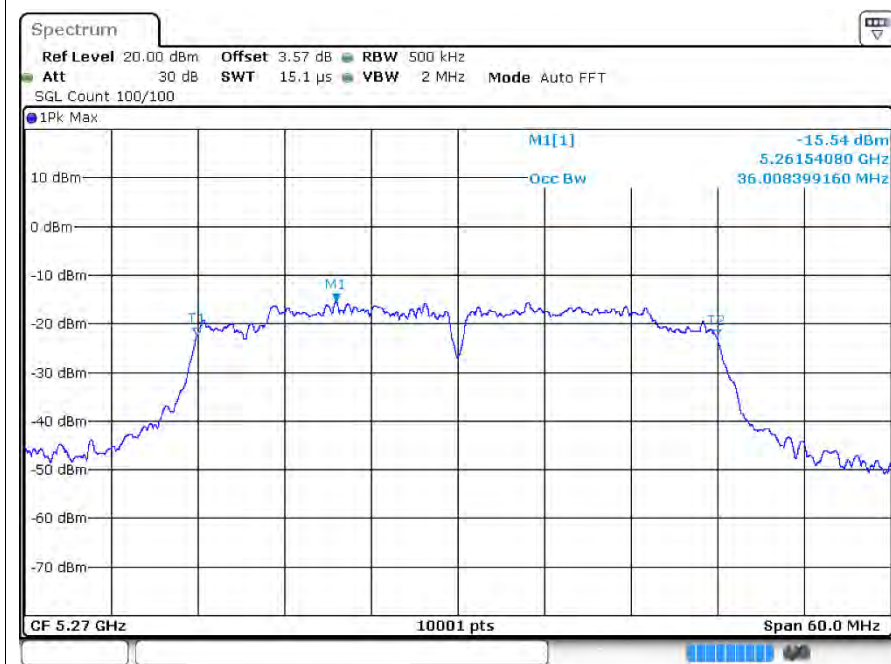




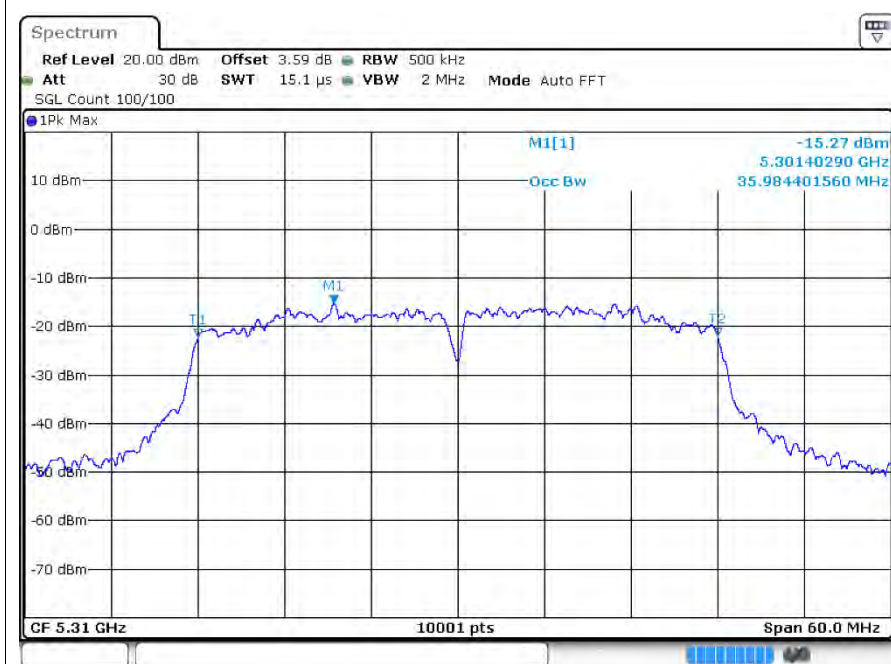


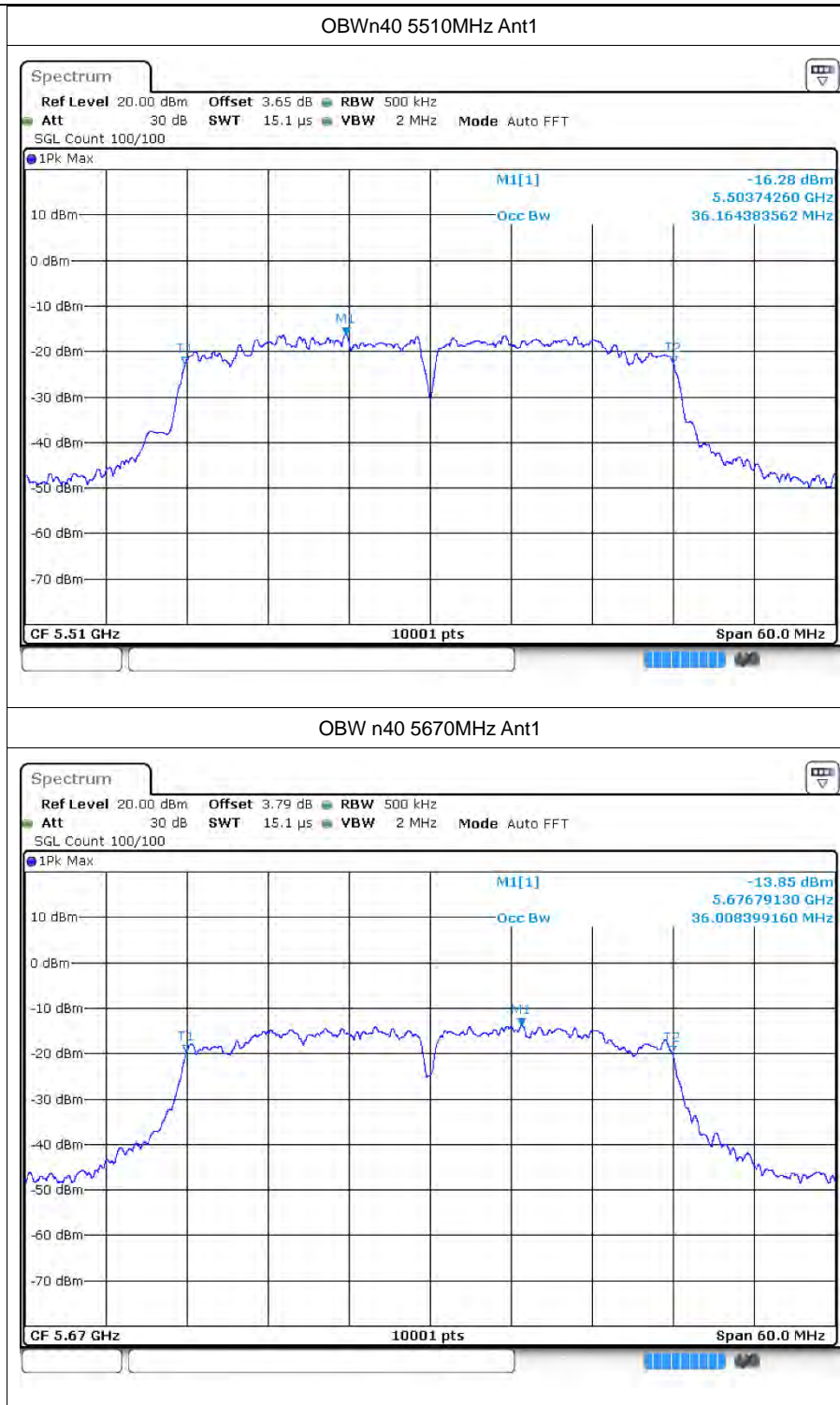


OBW n40 5270MHz Ant1

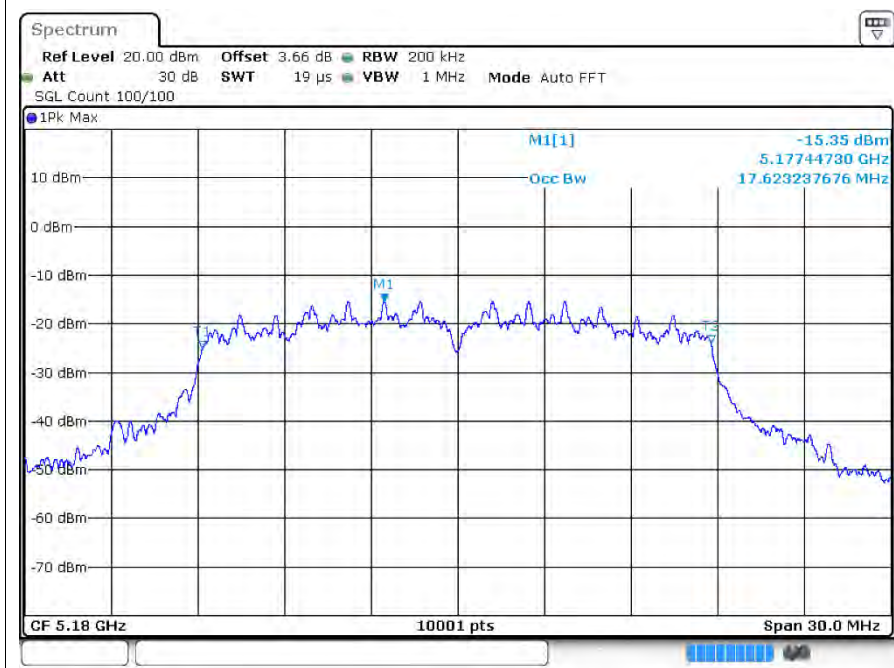


OBW n40 5310MHz Ant1

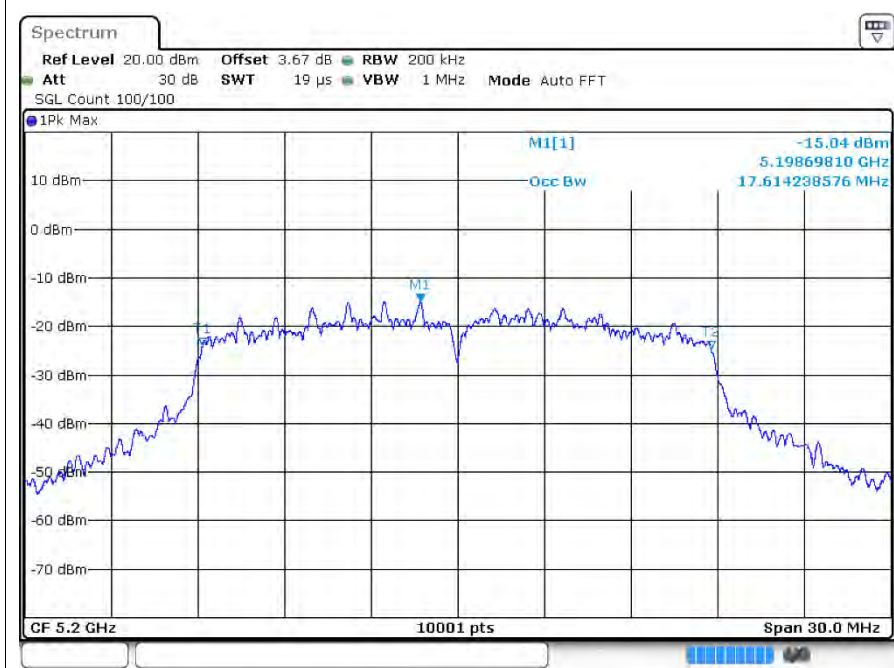




OBW ac20 5180MHz Ant1

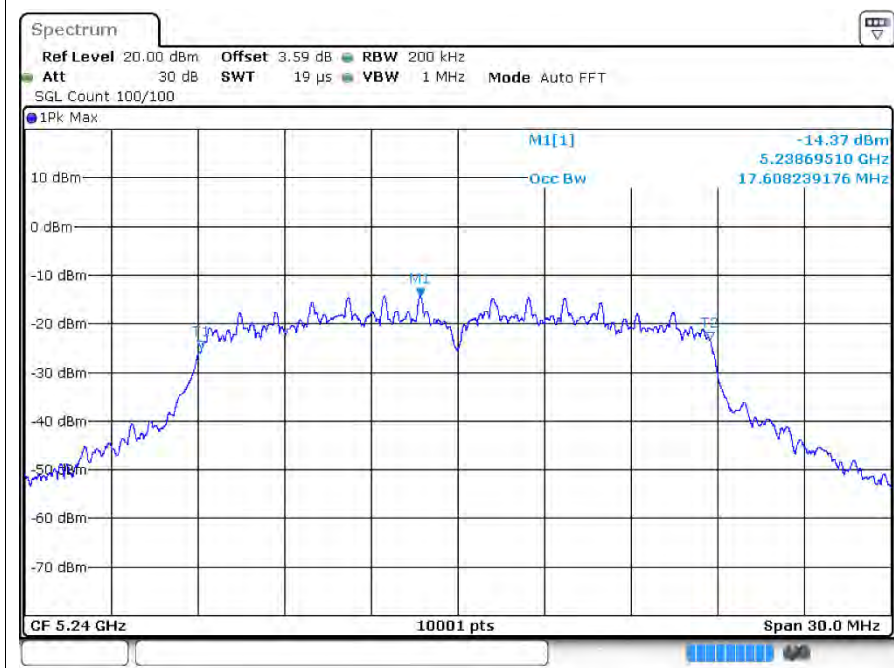


OBW ac20 5200MHz Ant1

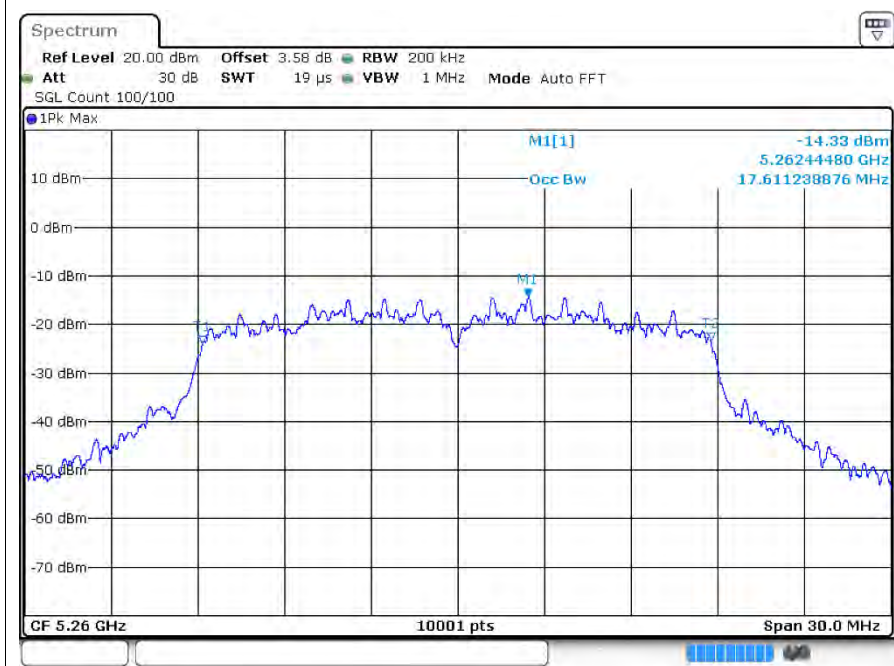




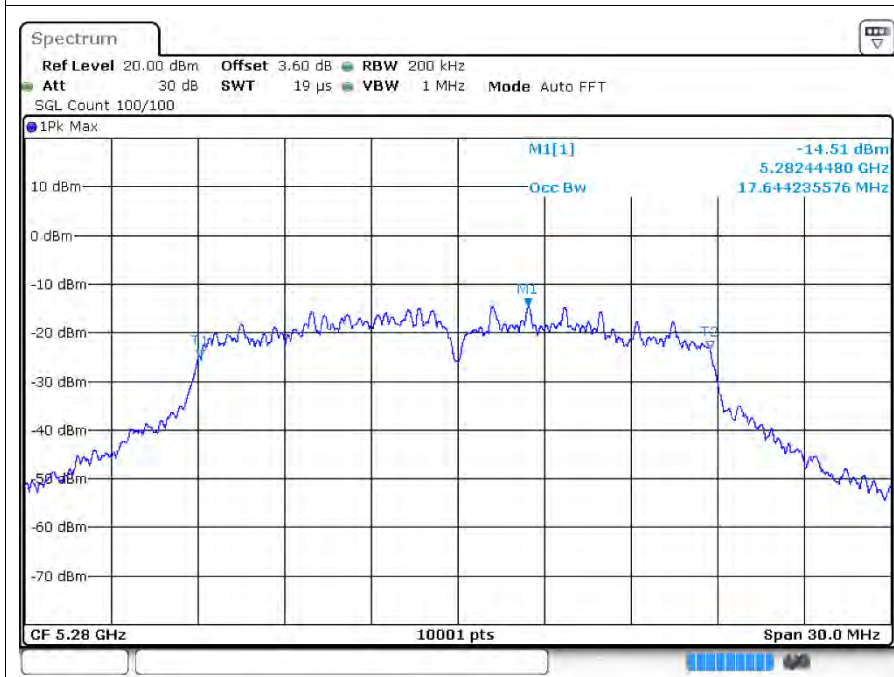
OBW ac20 5240MHz Ant1



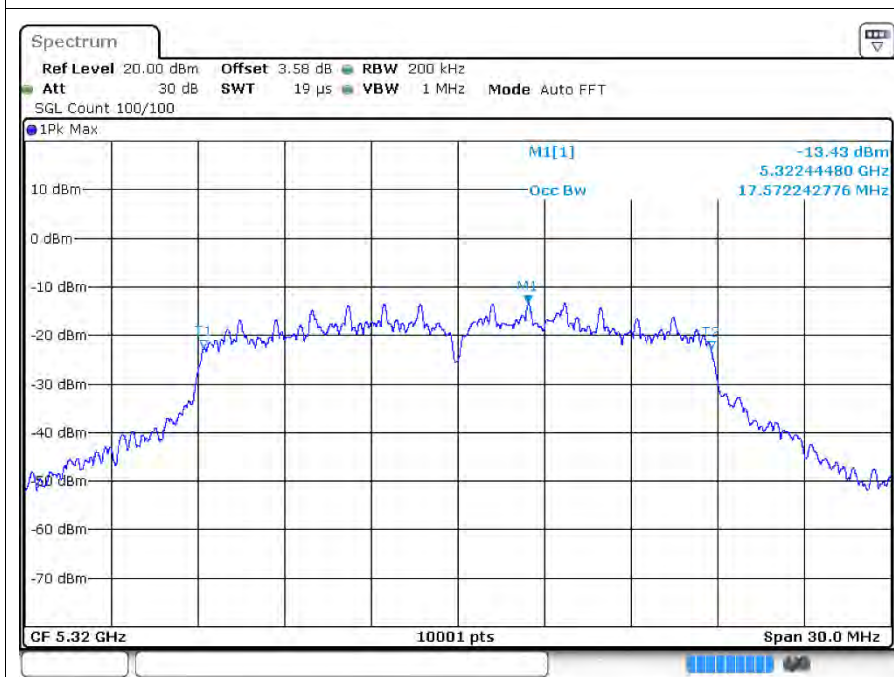
OBW ac20 5260MHz Ant1



OBW ac20 5280MHz Ant1

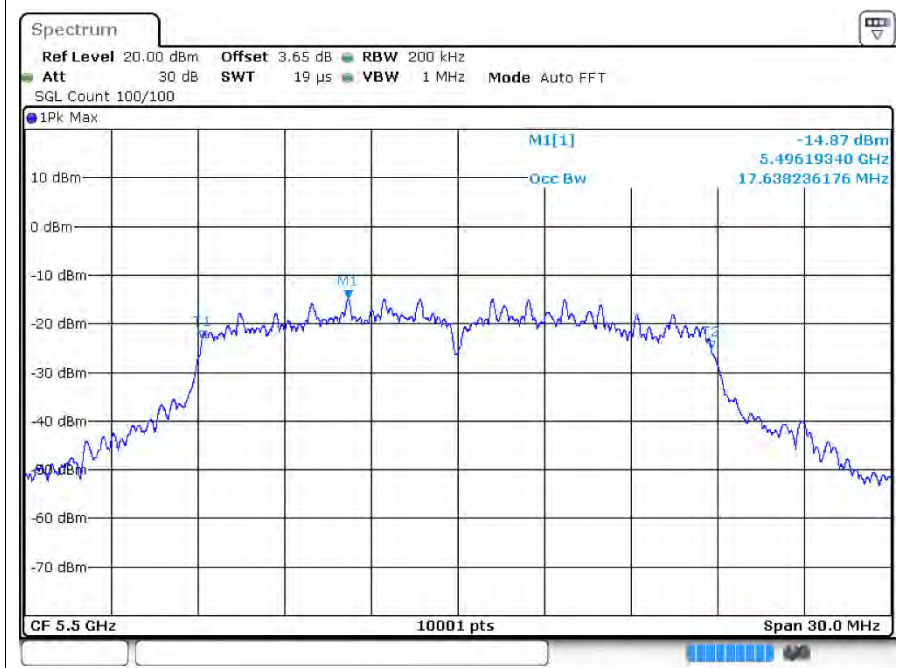


OBW ac20 5320MHz Ant1

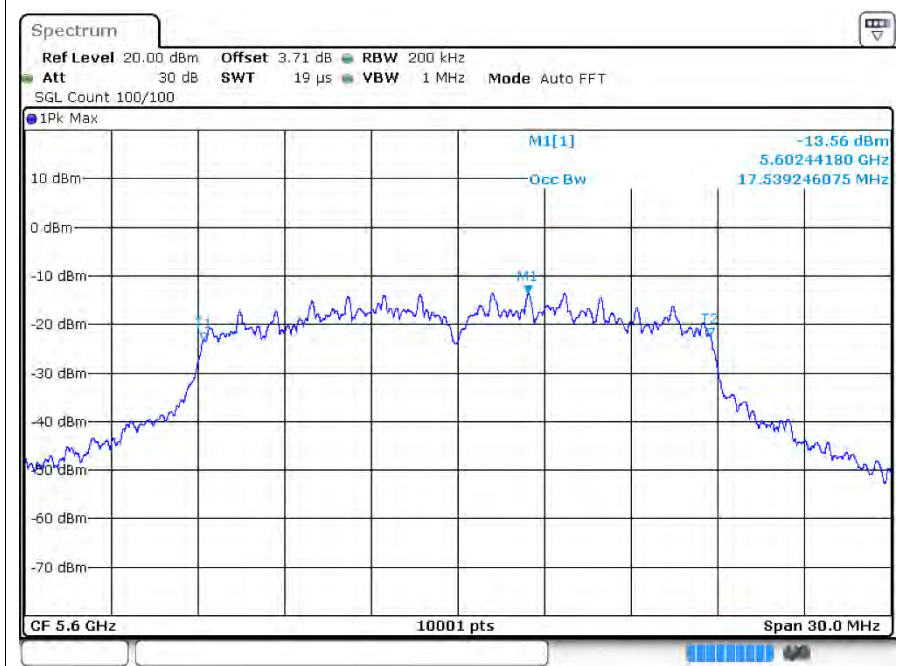


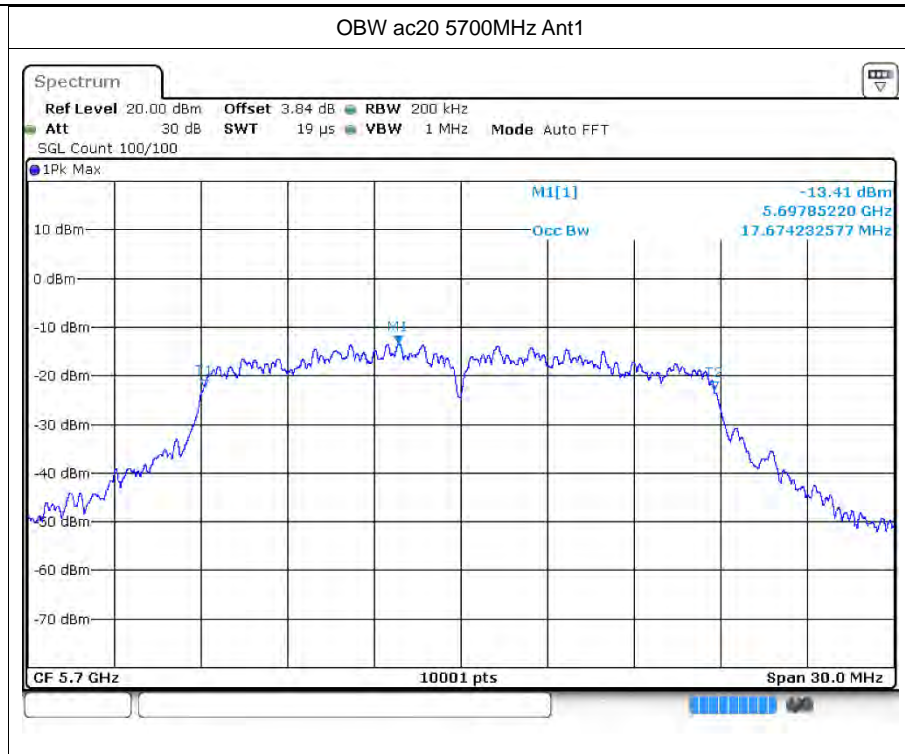


OBW ac20 5500MHz Ant1

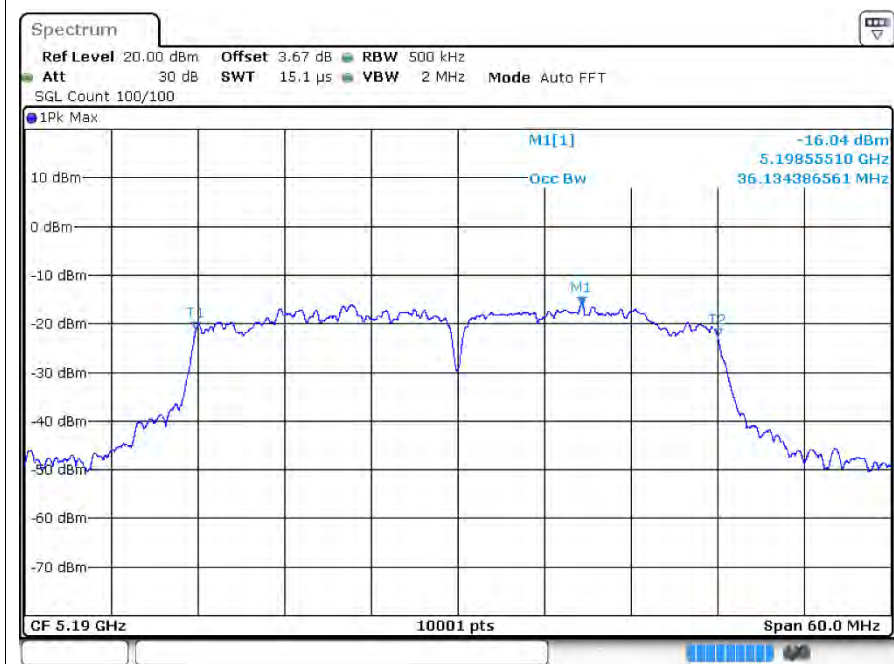


OBW ac20 5600MHz Ant1

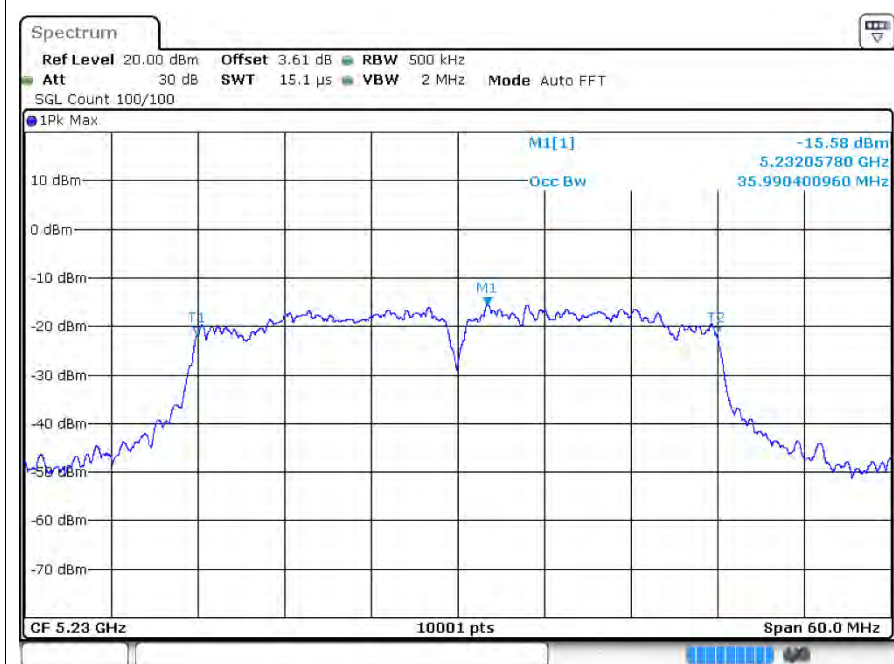




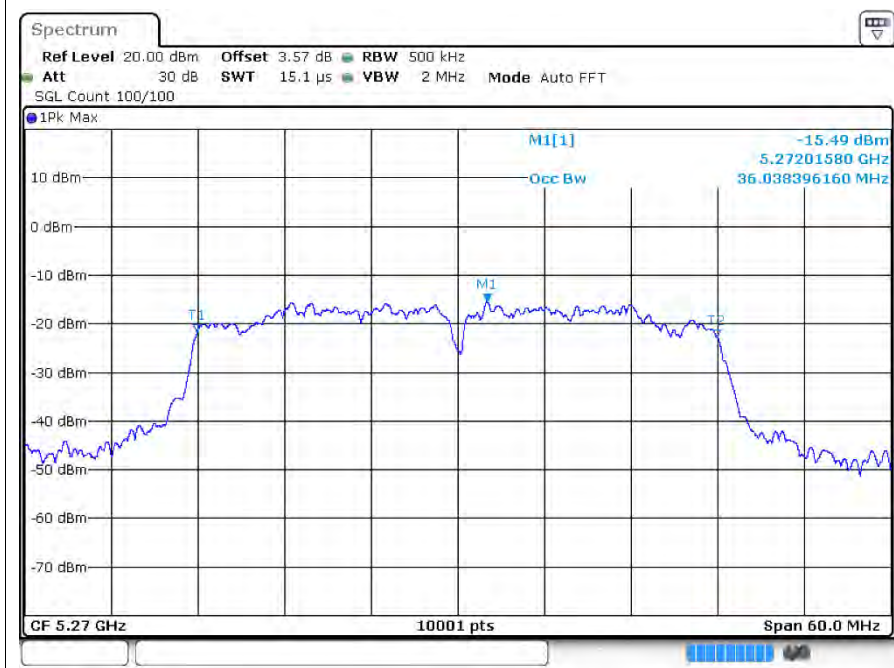
OBWac40 5190MHz Ant1



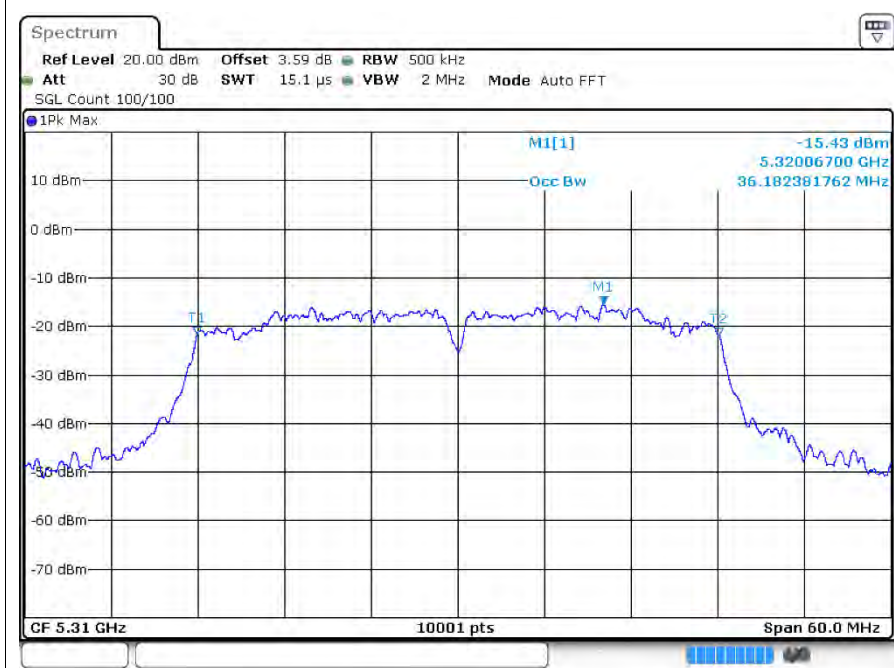
OBWac40 5230MHz Ant1



OBW ac40 5270MHz Ant1

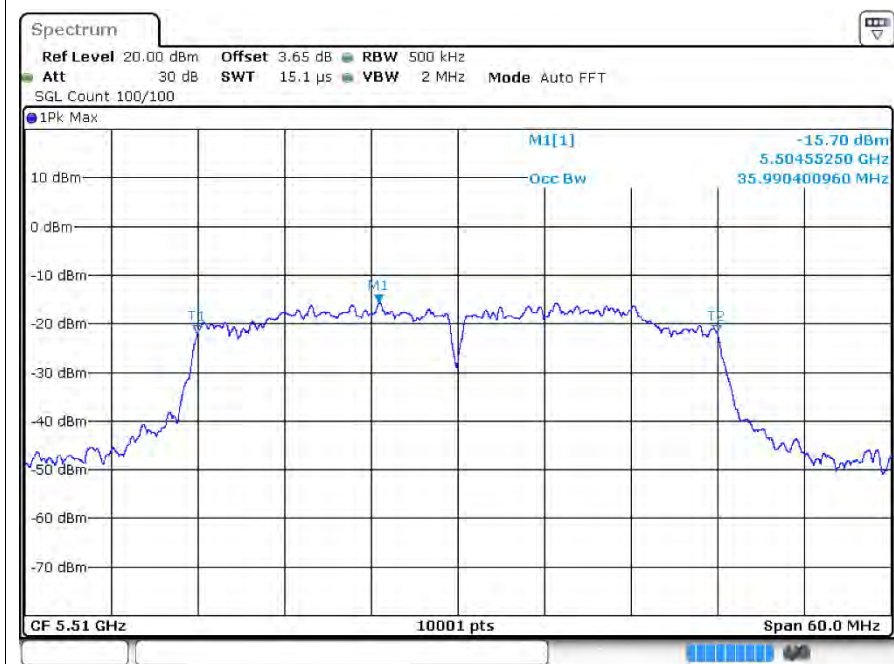


OBW ac40 5310MHz Ant1

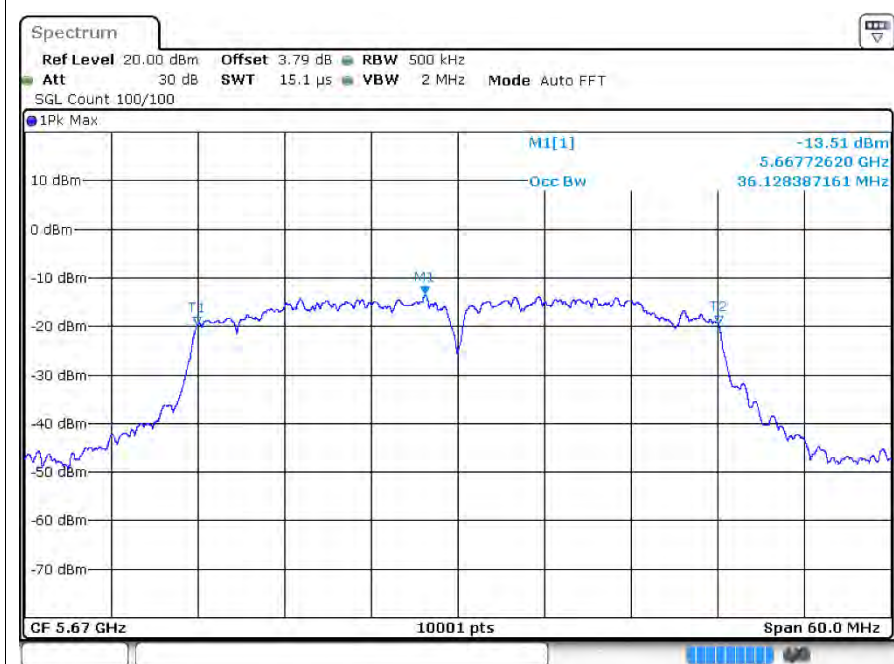




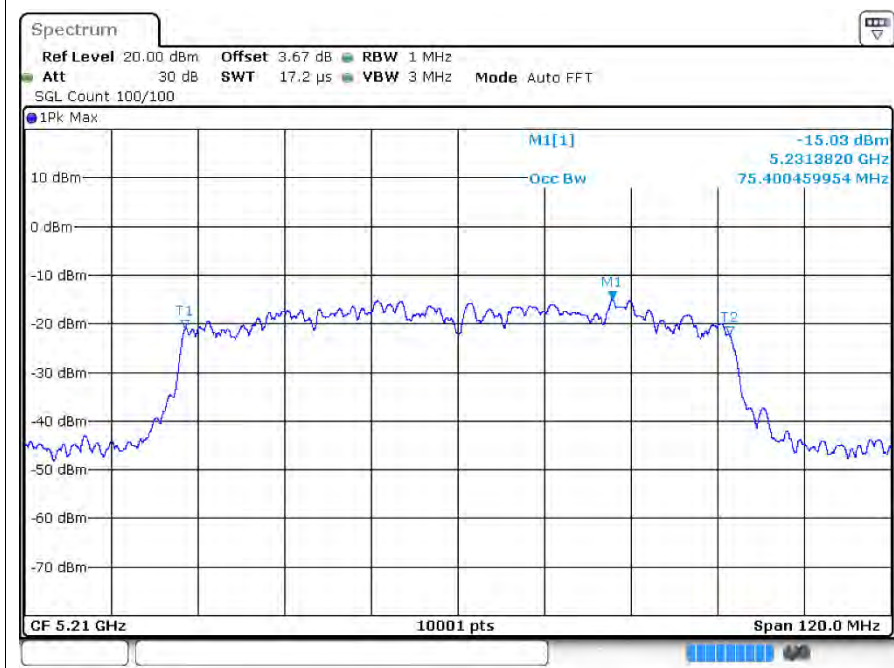
OBWac40 5510MHz Ant1



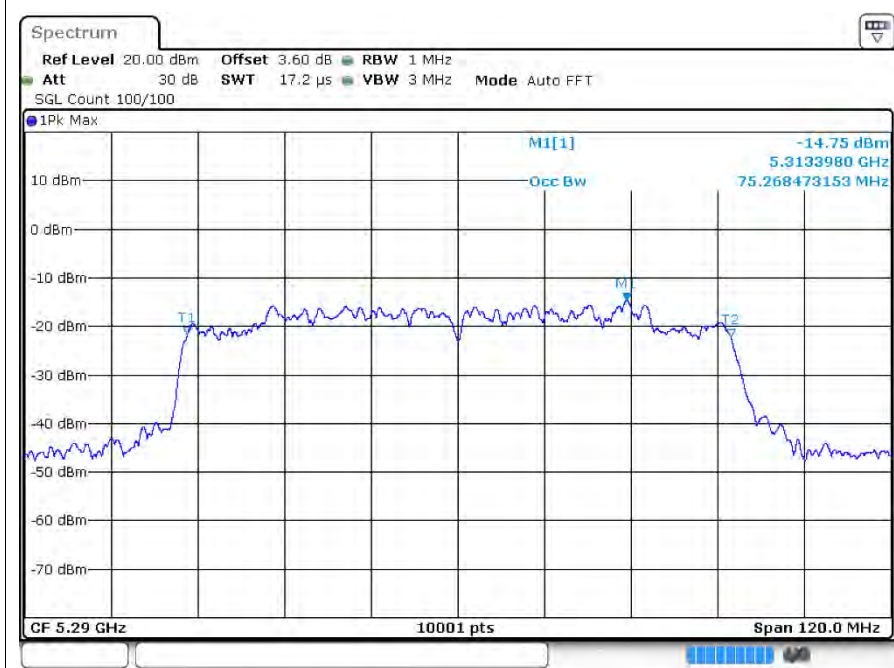
OBW ac40 5670MHz Ant1



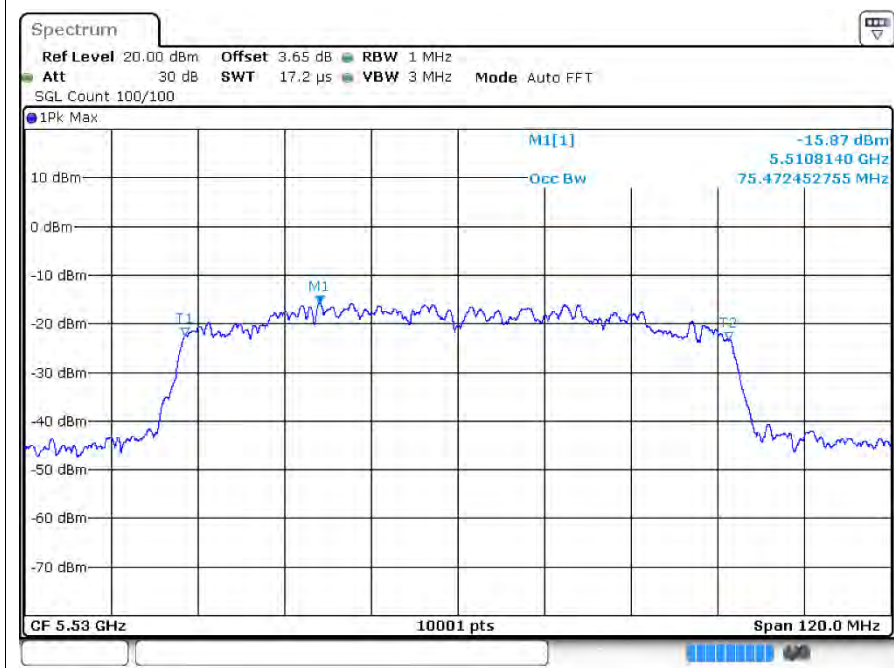
OBWac80 5210MHz Ant1



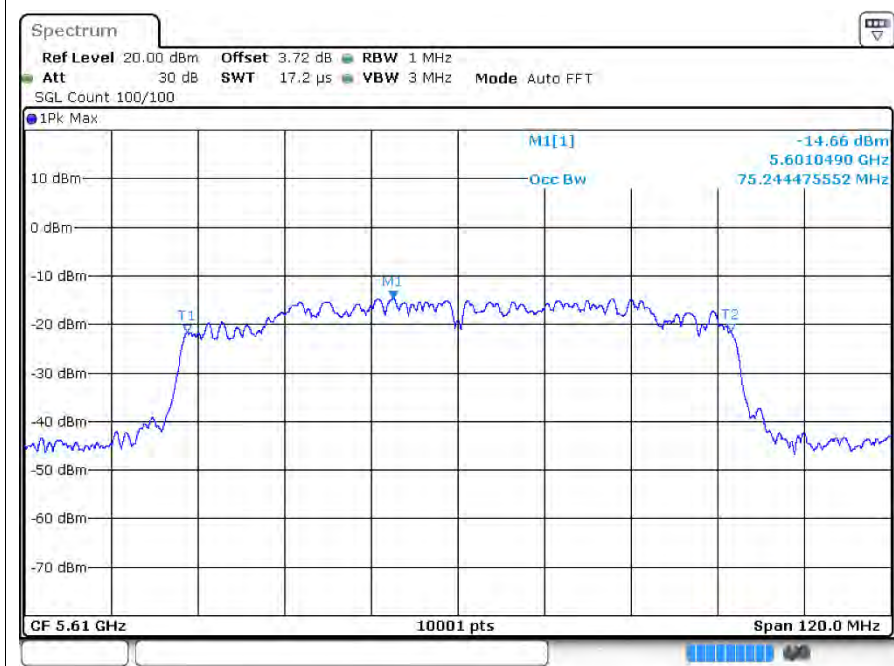
OBWac80 5290MHz Ant1



OBW ac80 5530MHz Ant1



OBWac80 5610MHz Ant1



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	-8.69	0.62	-8.07	11	Pass
a	5200	Ant1	-9.51	0.62	-8.89	11	Pass
a	5240	Ant1	-8.33	0.62	-7.71	11	Pass
a	5260	Ant1	-8.35	0.62	-7.73	11	Pass
a	5280	Ant1	-8.61	0.62	-7.99	11	Pass
a	5320	Ant1	-6.53	0.62	-5.91	11	Pass
a	5500	Ant1	-8.75	0.62	-8.13	11	Pass
a	5600	Ant1	-7.15	0.62	-6.53	11	Pass
a	5700	Ant1	-7.55	0.61	-6.94	11	Pass
n20	5180	Ant1	-10.61	0.59	-10.02	11	Pass
n20	5200	Ant1	-9.05	0.59	-8.46	11	Pass
n20	5240	Ant1	-9.9	0.59	-9.31	11	Pass
n20	5260	Ant1	-9.09	0.59	-8.5	11	Pass
n20	5280	Ant1	-9.53	0.58	-8.95	11	Pass
n20	5320	Ant1	-8.6	0.58	-8.02	11	Pass
n20	5500	Ant1	-10.26	0.59	-9.67	11	Pass
n20	5600	Ant1	-7.82	0.59	-7.23	11	Pass
n20	5700	Ant1	-8.06	0.58	-7.48	11	Pass
n40	5190	Ant1	-12.35	1.15	-11.2	11	Pass
n40	5230	Ant1	-11.95	1.15	-10.8	11	Pass
n40	5270	Ant1	-12.43	1.15	-11.28	11	Pass
n40	5310	Ant1	-11.87	1.15	-10.72	11	Pass
n40	5510	Ant1	-12.34	1.16	-11.18	11	Pass
n40	5670	Ant1	-11.21	1.14	-10.07	11	Pass
ac20	5180	Ant1	-10.5	0.61	-9.89	11	Pass
ac20	5200	Ant1	-9.17	0.61	-8.56	11	Pass
ac20	5240	Ant1	-9.18	0.6	-8.58	11	Pass
ac20	5260	Ant1	-9.79	0.61	-9.18	11	Pass
ac20	5280	Ant1	-9	0.61	-8.39	11	Pass
ac20	5320	Ant1	-8.32	0.6	-7.72	11	Pass
ac20	5500	Ant1	-10.19	0.6	-9.59	11	Pass
ac20	5600	Ant1	-9.07	0.6	-8.47	11	Pass
ac20	5700	Ant1	-7.47	0.6	-6.87	11	Pass
ac40	5190	Ant1	-12.27	1.25	-11.02	11	Pass
ac40	5230	Ant1	-12.24	1.25	-10.99	11	Pass



ac40	5270	Ant1	-12.47	1.24	-11.23	11	Pass
ac40	5310	Ant1	-11.96	1.24	-10.72	11	Pass
ac40	5510	Ant1	-12.51	1.26	-11.25	11	Pass
ac40	5670	Ant1	-10.56	1.14	-9.42	11	Pass
ac80	5210	Ant1	-15.4	1.62	-13.78	11	Pass
ac80	5290	Ant1	-15.16	1.58	-13.58	11	Pass
ac80	5530	Ant1	-15.53	1.58	-13.95	11	Pass
ac80	5610	Ant1	-14.61	1.3	-13.31	11	Pass

5.2 Test Graphs

