



Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: projector

Trade Mark: N/A

Test Model: Projector2.69

Environmental Conditions

Temperature:	25.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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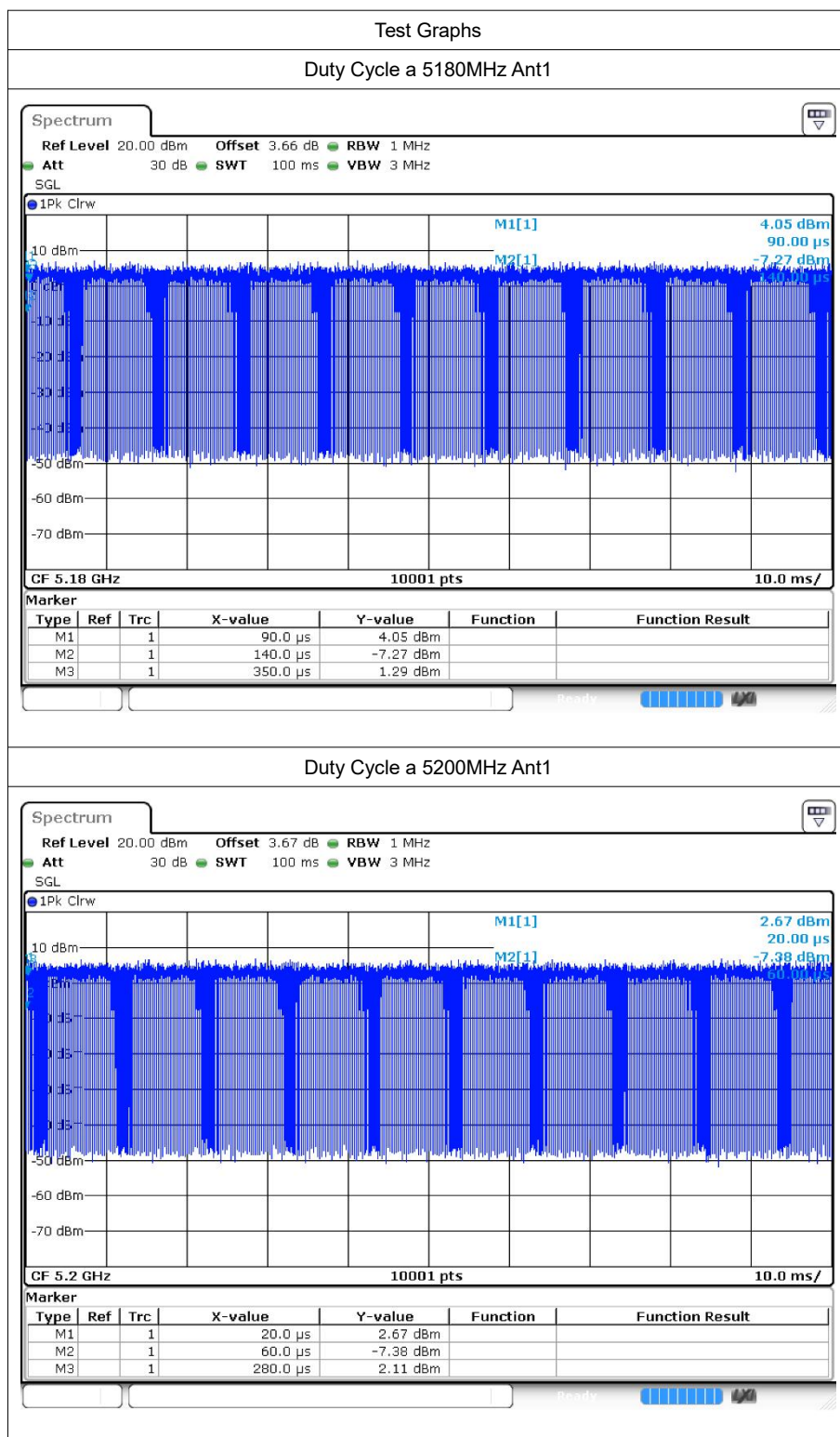
1 Duty Cycle

1.1 Test Result

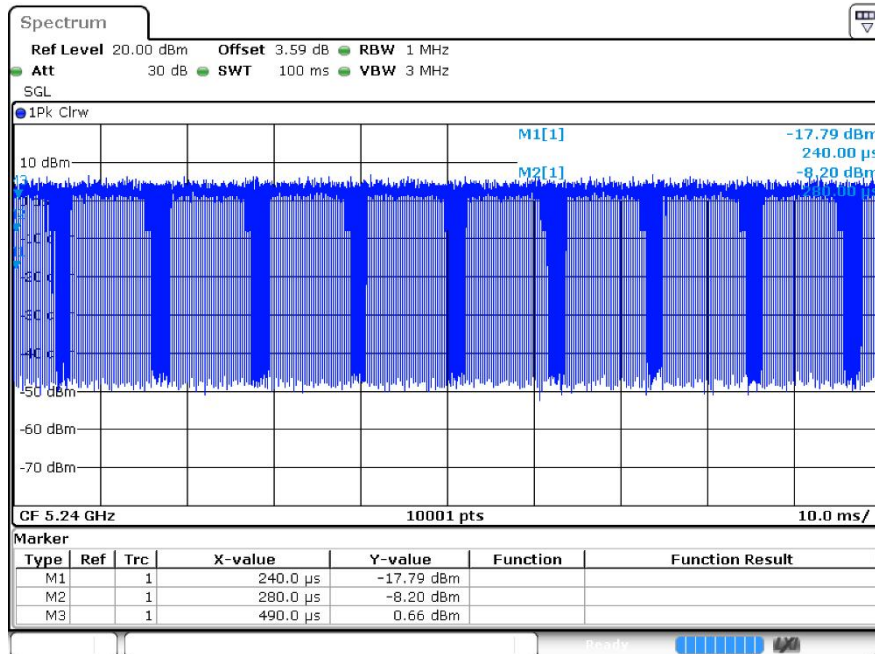
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	86.86	0.61	4.76
a	5200	Ant1	86.93	0.61	4.55
a	5240	Ant1	86.94	0.61	4.76
n20	5180	Ant1	87.62	0.57	4.35
n20	5200	Ant1	87.62	0.57	4.35
n20	5240	Ant1	87.63	0.57	4.35
n40	5190	Ant1	88.13	0.55	4.17
n40	5230	Ant1	88.14	0.55	4
ac20	5180	Ant1	87.17	0.6	4.35
ac20	5200	Ant1	87.34	0.59	4.35
ac20	5240	Ant1	87.25	0.59	4.35
ac40	5190	Ant1	87.05	0.6	4.55
ac40	5230	Ant1	87.09	0.6	4.35
ac80	5210	Ant1	87.36	0.59	4.35
ax20	5180	Ant1	87.17	0.6	4.35
ax20	5200	Ant1	87.12	0.6	4.55
ax20	5240	Ant1	87.05	0.6	4.55
ax40	5190	Ant1	87.44	0.58	4.35
ax40	5230	Ant1	87.46	0.58	4.17
ax80	5210	Ant1	87.97	0.56	4



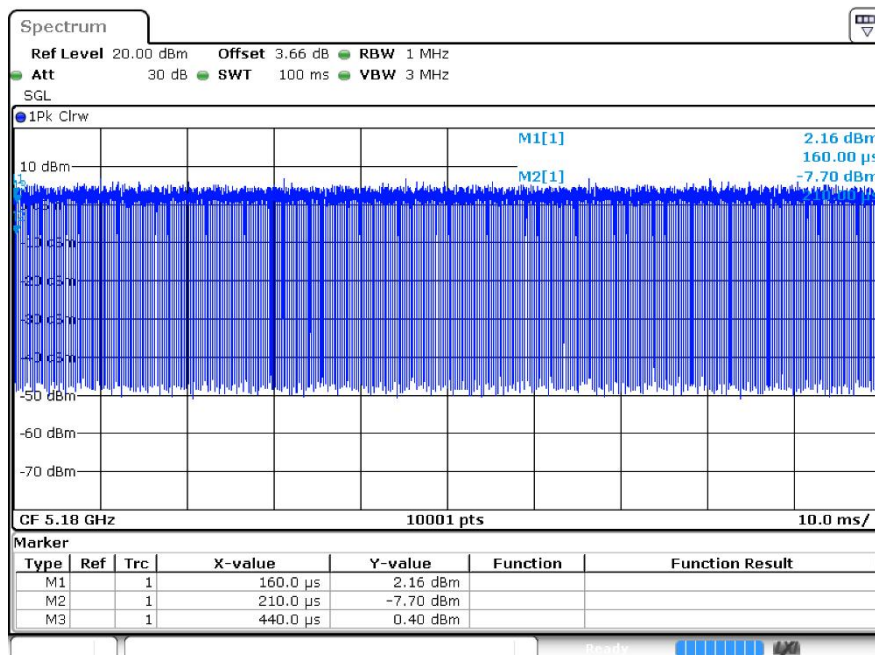
1.2 Test Graphs



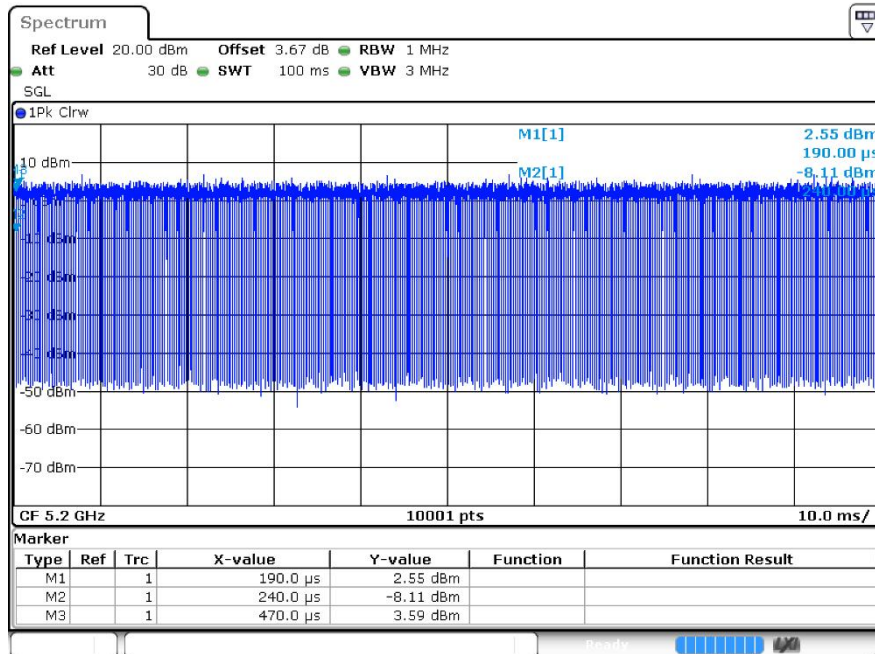
Duty Cycle a 5240MHz Ant1



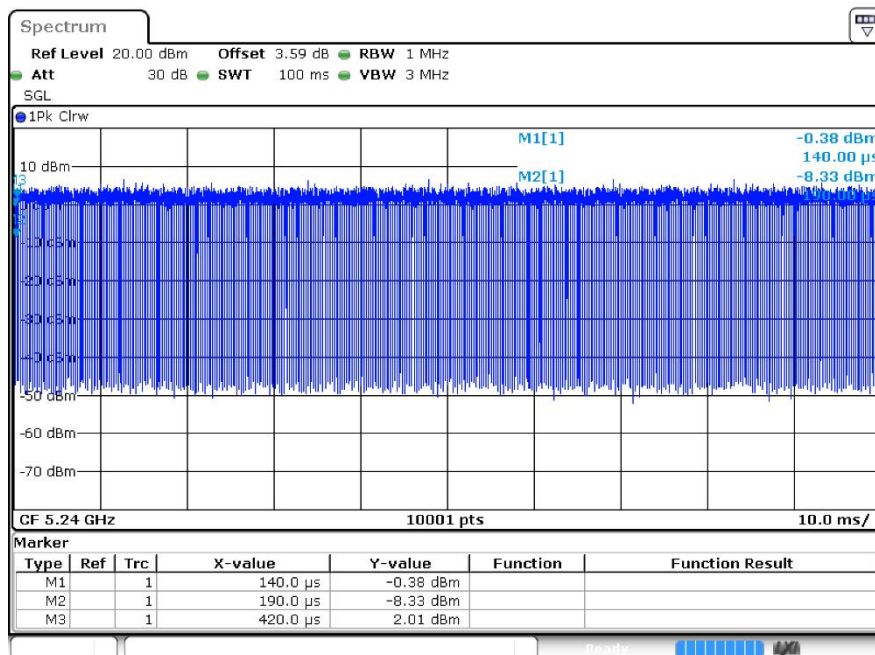
Duty Cycle n20 5180MHz Ant1



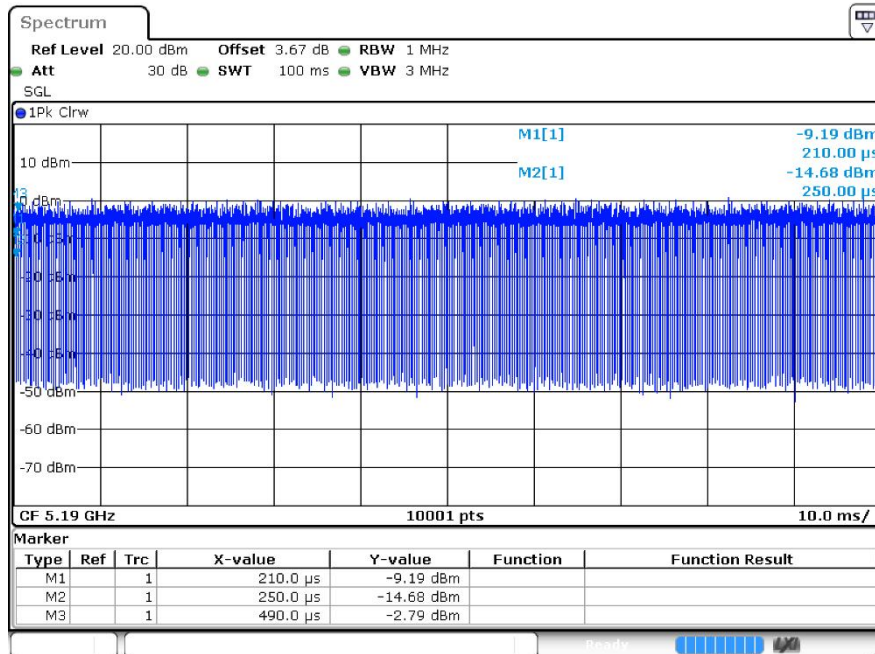
Duty Cycle a n20 5200MHz Ant1



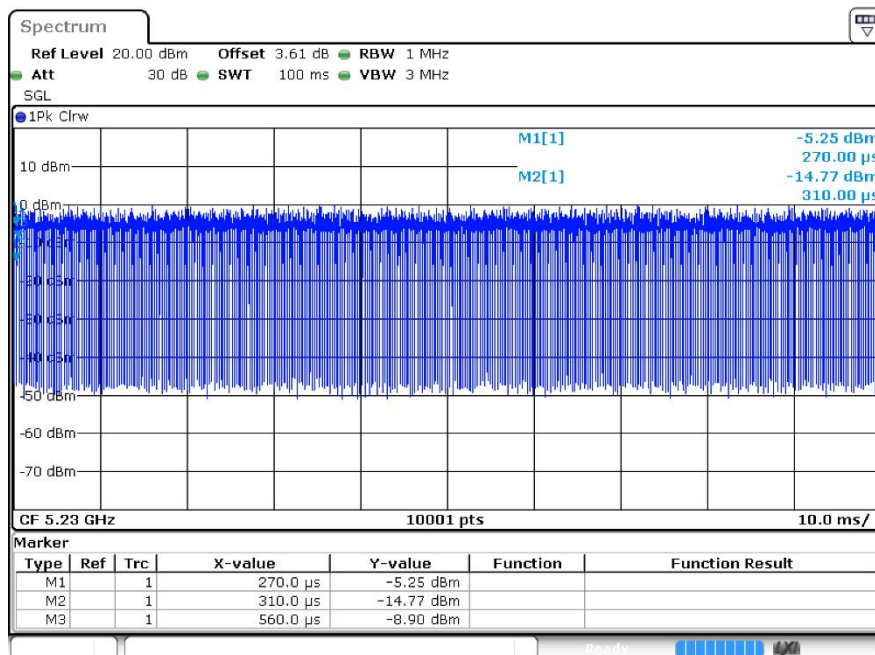
Duty Cycle n20 5240MHz Ant1



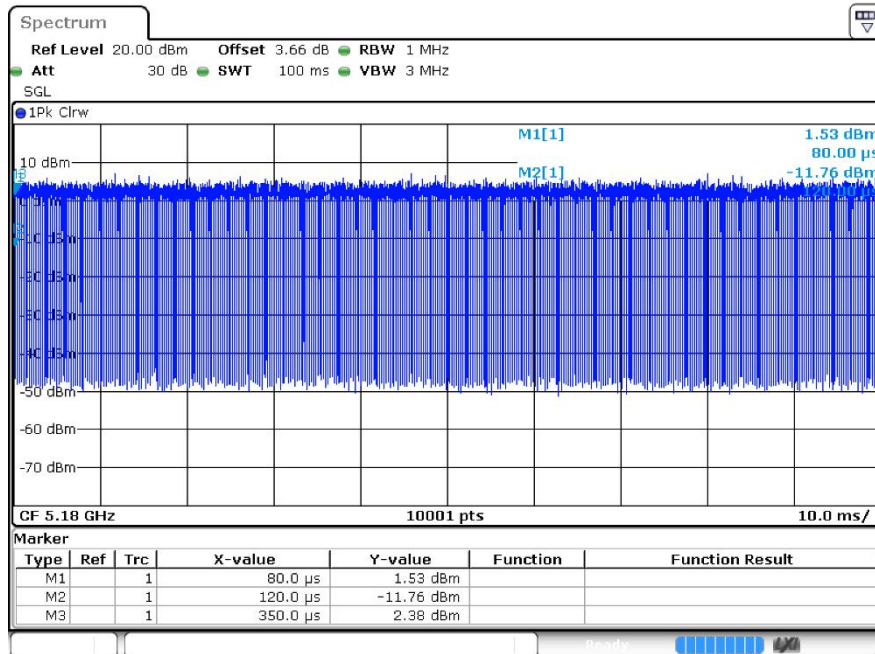
Duty Cyclen40 5190MHz Ant1



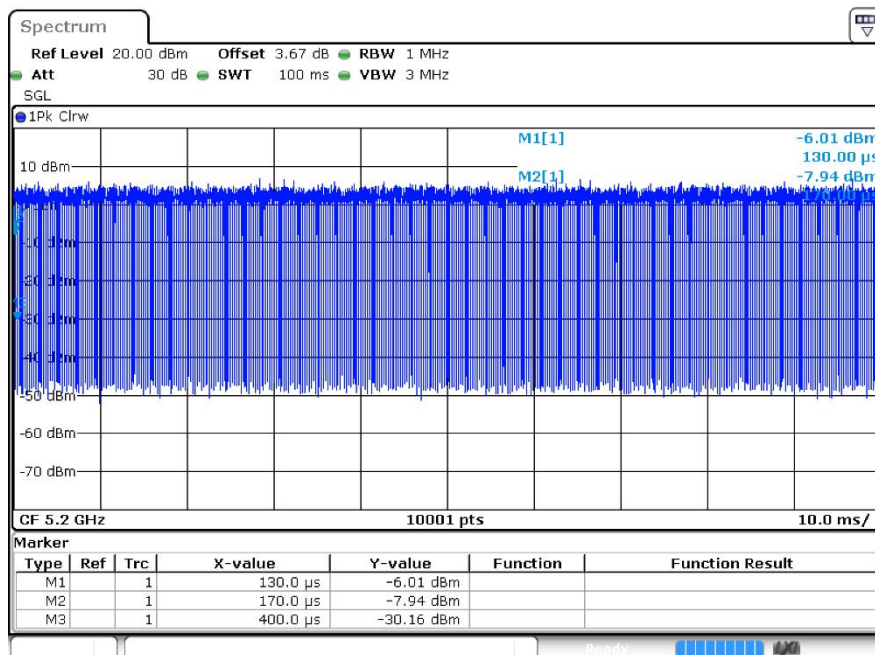
Duty Cyclen40 5230MHz Ant1



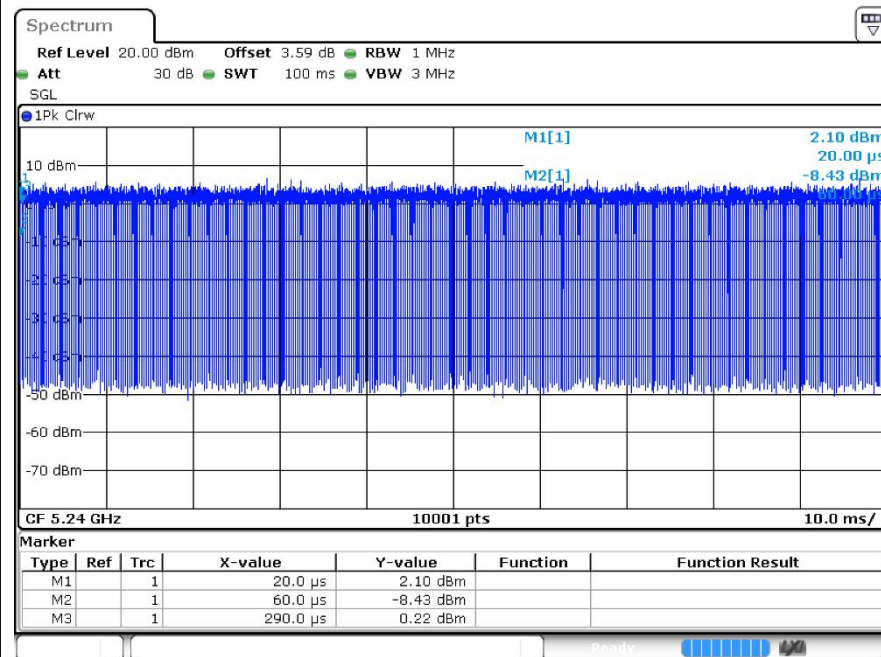
Duty Cycle ac20 5180MHz Ant1



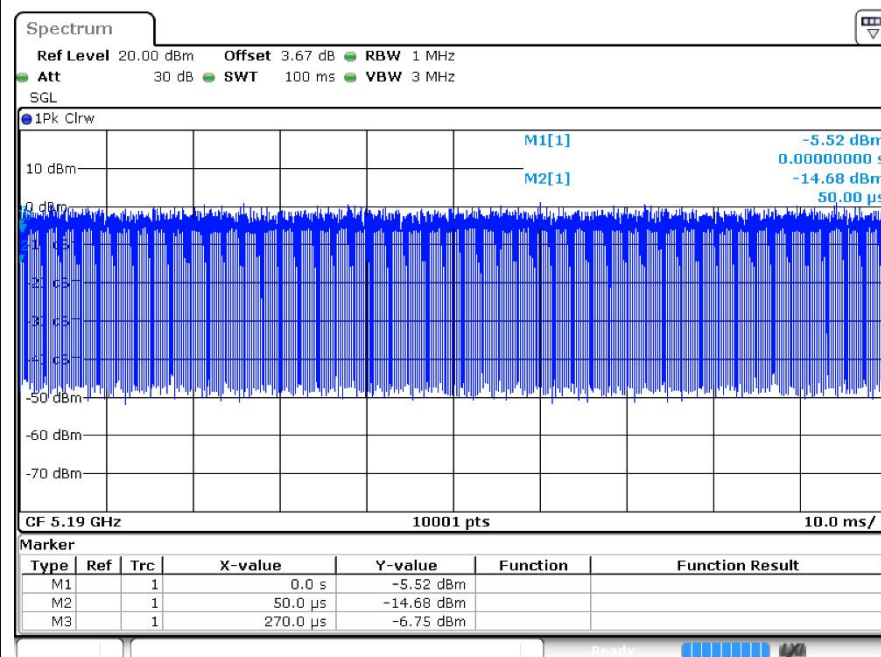
Duty Cycle ac20 5200MHz Ant1



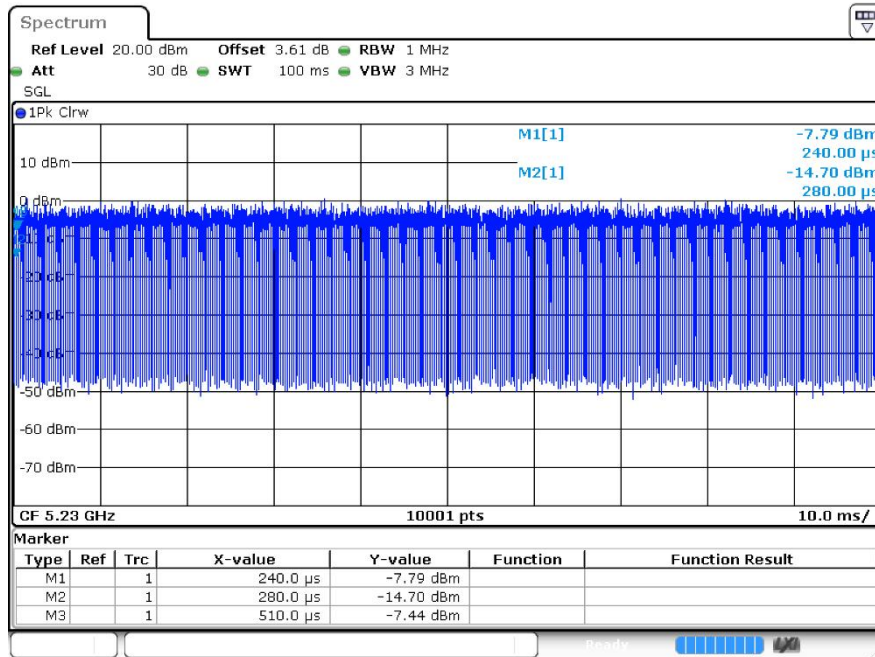
Duty Cycle ac20 5240MHz Ant1



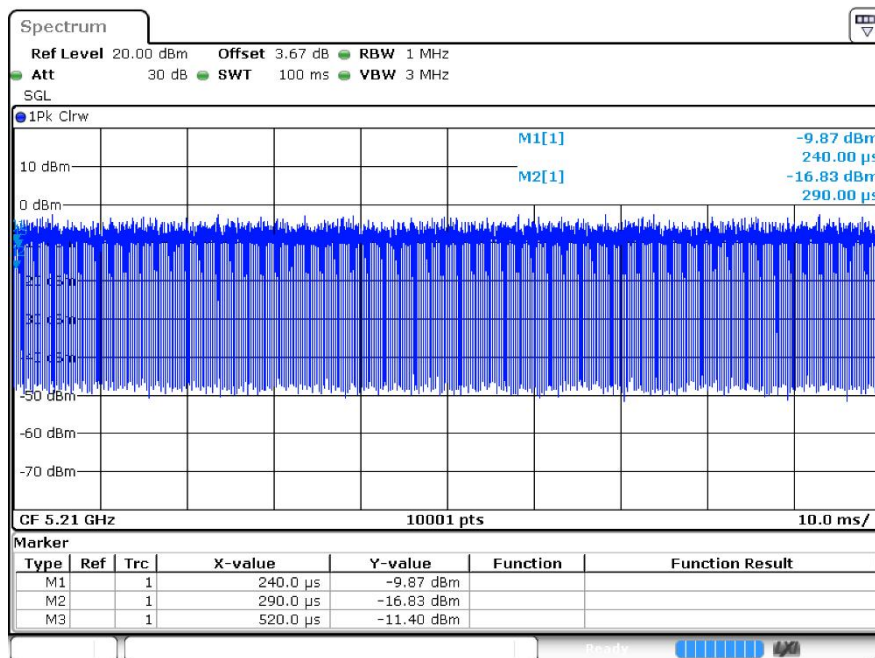
Duty Cycleac40 5190MHz Ant1



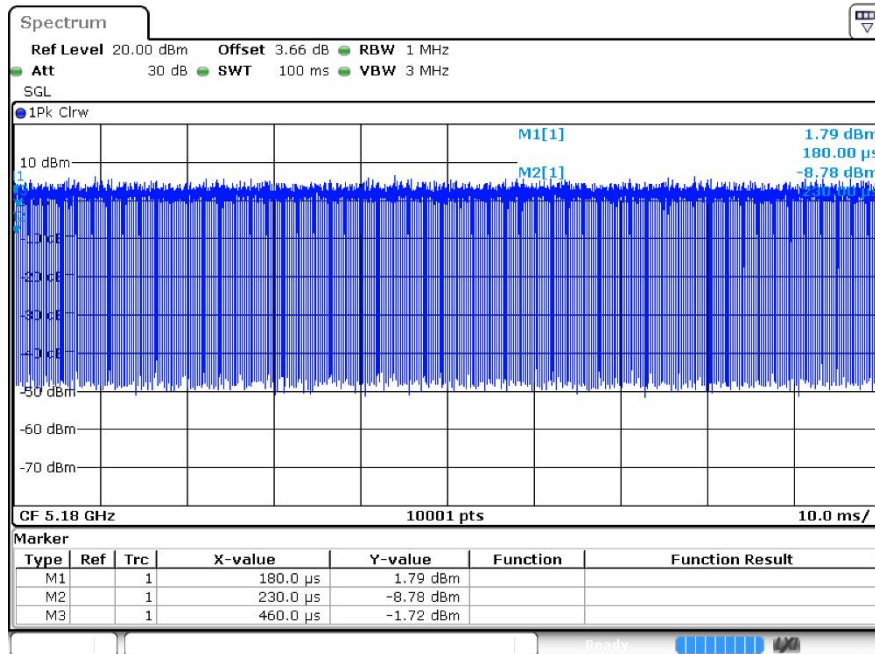
Duty Cycleac40 5230MHz Ant1



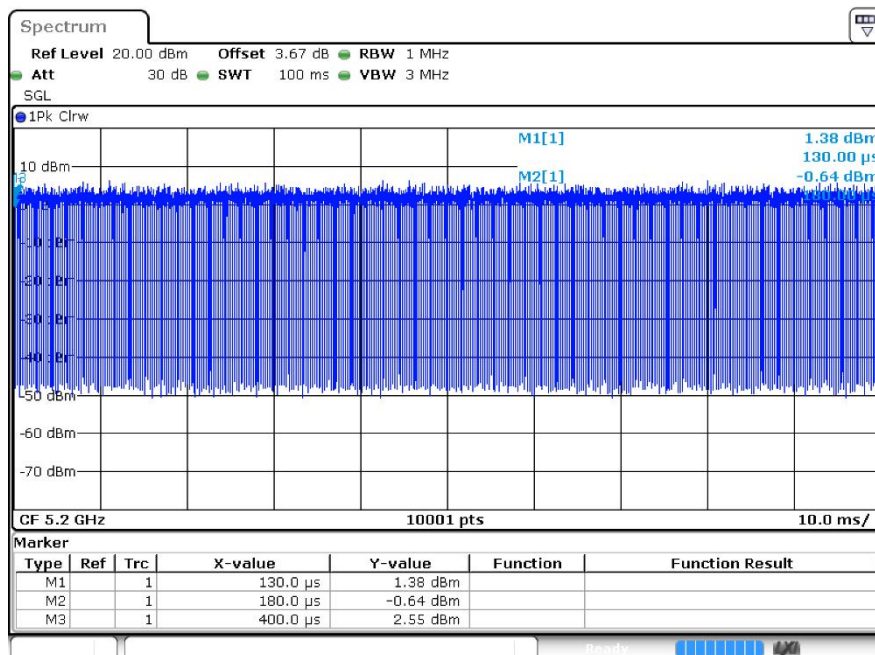
Duty Cycleac80 5210MHz Ant1



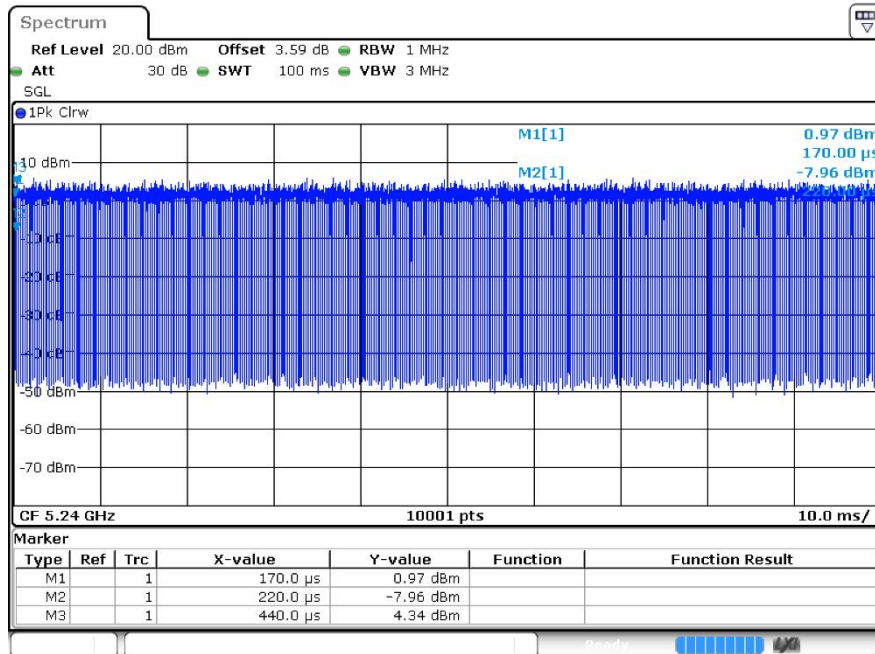
Duty Cycle ax20 5180MHz Ant1



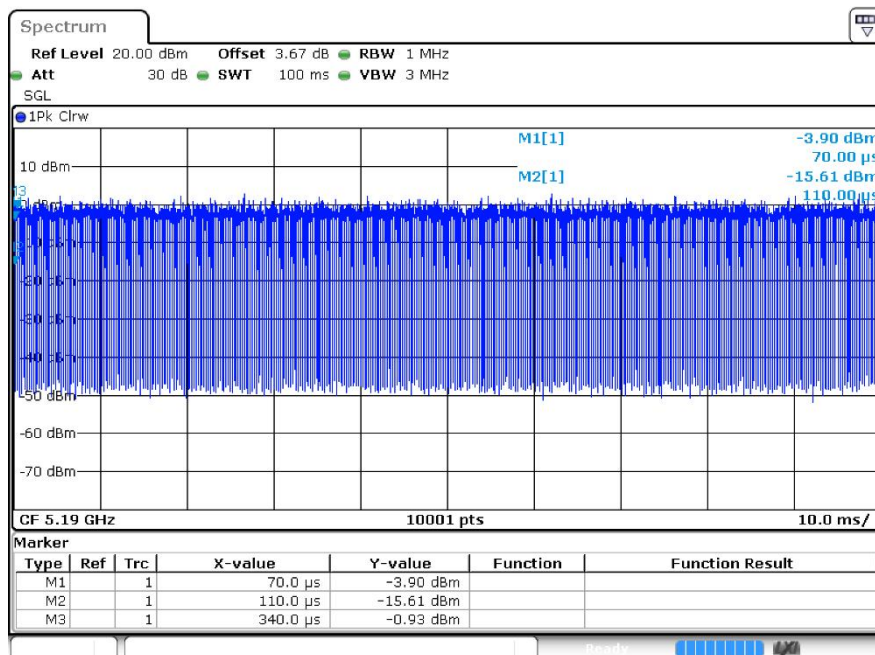
Duty Cycle ax20 5200MHz Ant1

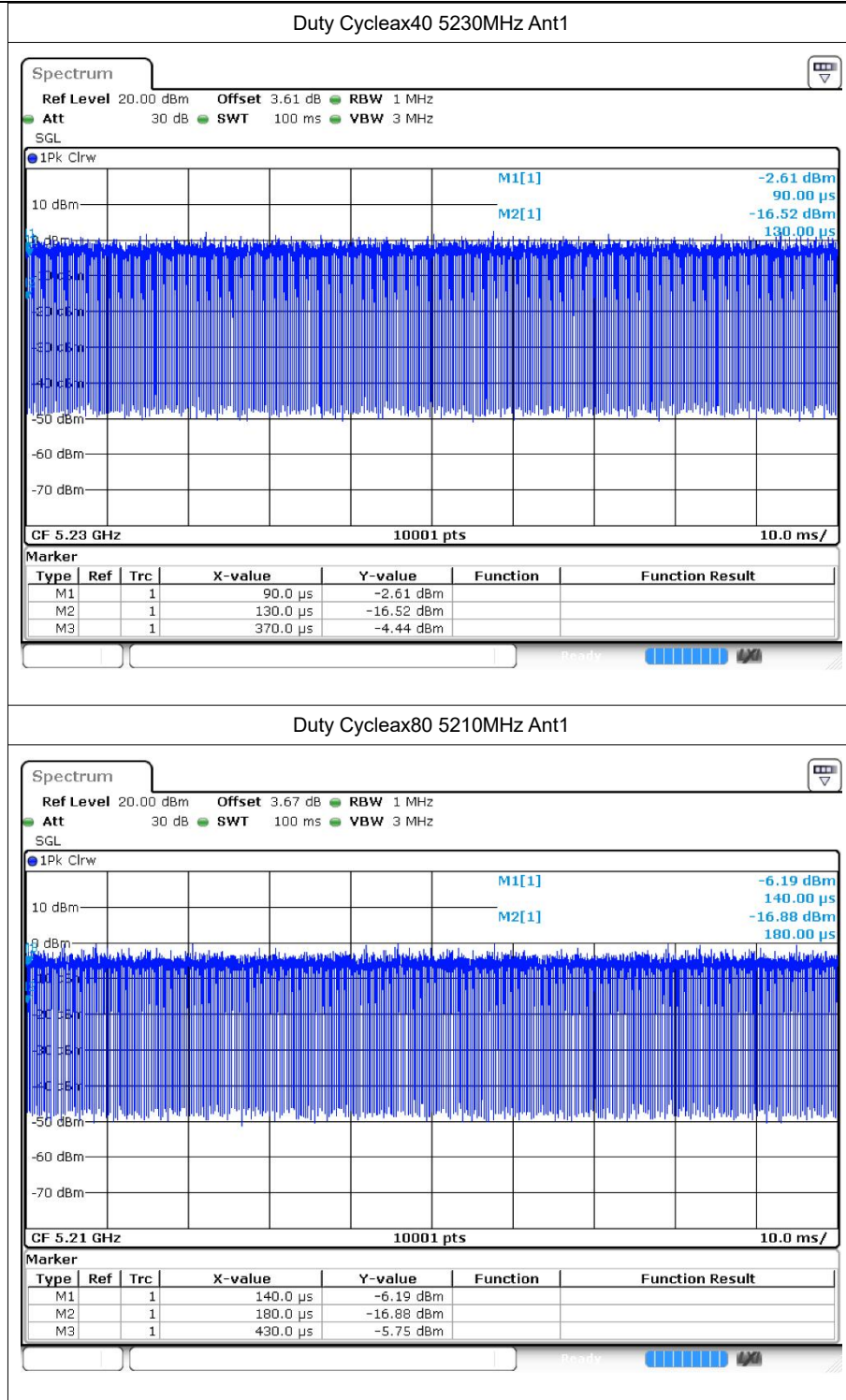


Duty Cycle ax20 5240MHz Ant1



Duty Cycleax40 5190MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	13.44	24	Pass
a	5200	Ant1	13.27	24	Pass
a	5240	Ant1	12.96	24	Pass
n20	5180	Ant1	12.89	24	Pass
n20	5200	Ant1	12.83	24	Pass
n20	5240	Ant1	12.58	24	Pass
n40	5190	Ant1	12.6	24	Pass
n40	5230	Ant1	12.04	24	Pass
ac20	5180	Ant1	12.99	24	Pass
ac20	5200	Ant1	12.85	24	Pass
ac20	5240	Ant1	12.59	24	Pass
ac40	5190	Ant1	12.61	24	Pass
ac40	5230	Ant1	12.19	24	Pass
ac80	5210	Ant1	12.13	24	Pass
ax20	5180	Ant1	13.05	24	Pass
ax20	5200	Ant1	12.97	24	Pass
ax20	5240	Ant1	12.73	24	Pass
ax40	5190	Ant1	12.56	24	Pass
ax40	5230	Ant1	12.32	24	Pass
ax80	5210	Ant1	12.37	24	Pass

Note:

The duty factor has been compensated into the result.

3 -26dB Bandwidth

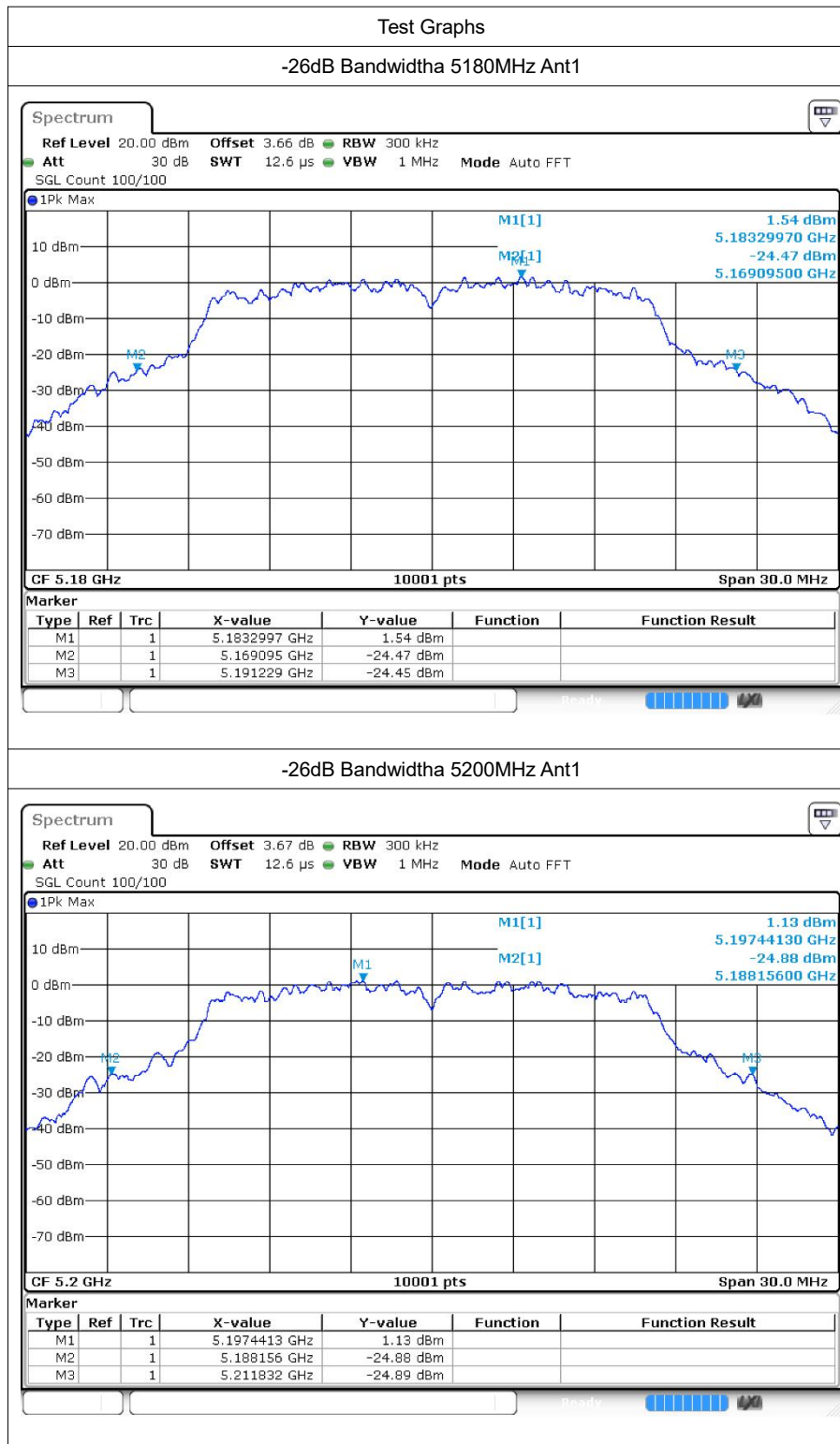
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	22.134	0.5	Pass
a	5200	Ant1	23.676	0.5	Pass
a	5240	Ant1	22.494	0.5	Pass
n20	5180	Ant1	22.383	0.5	Pass
n20	5200	Ant1	22.89	0.5	Pass
n20	5240	Ant1	23.127	0.5	Pass
n40	5190	Ant1	43.14	0.5	Pass
n40	5230	Ant1	41.772	0.5	Pass
ac20	5180	Ant1	22.599	0.5	Pass
ac20	5200	Ant1	23.289	0.5	Pass
ac20	5240	Ant1	22.884	0.5	Pass
ac40	5190	Ant1	42.222	0.5	Pass
ac40	5230	Ant1	41.436	0.5	Pass
ac80	5210	Ant1	84.816	0.5	Pass
ax20	5180	Ant1	22.986	0.5	Pass
ax20	5200	Ant1	22.275	0.5	Pass
ax20	5240	Ant1	21.903	0.5	Pass
ax40	5190	Ant1	42.378	0.5	Pass
ax40	5230	Ant1	42.39	0.5	Pass
ax80	5210	Ant1	82.752	0.5	Pass

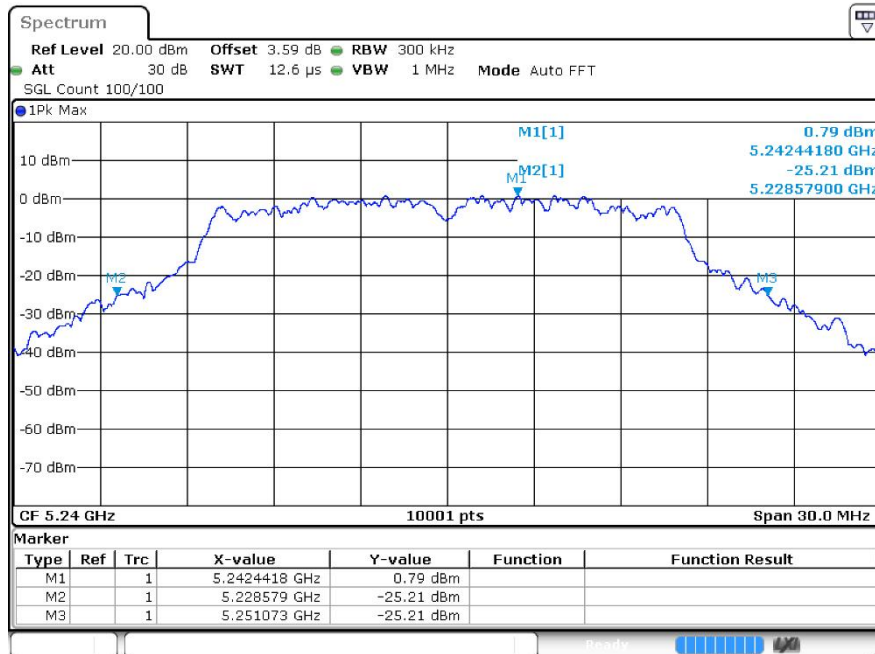
Note:

The duty factor has been compensated into the result.

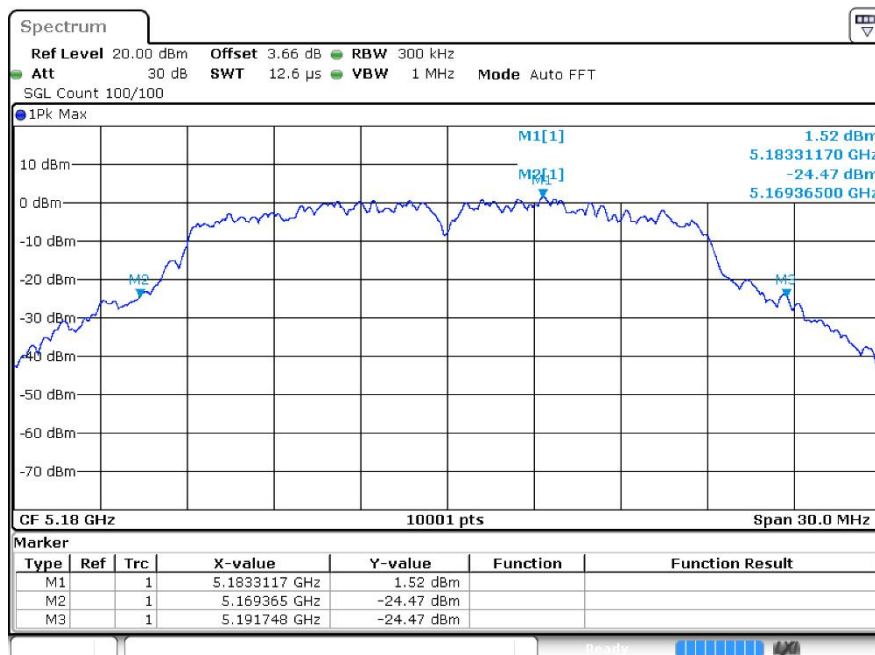
3.2 Test Graphs



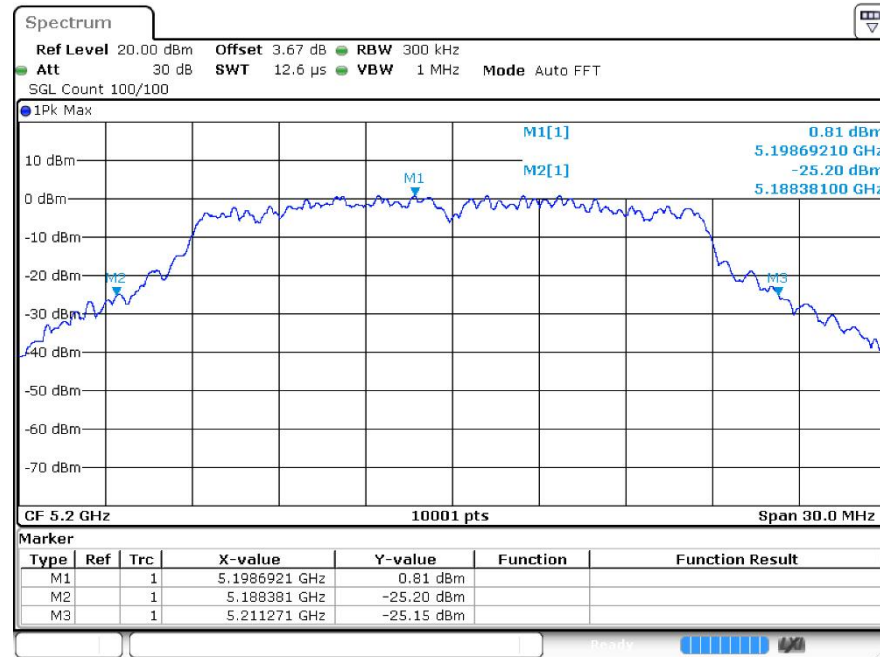
-26dB Bandwidth 5240MHz Ant1



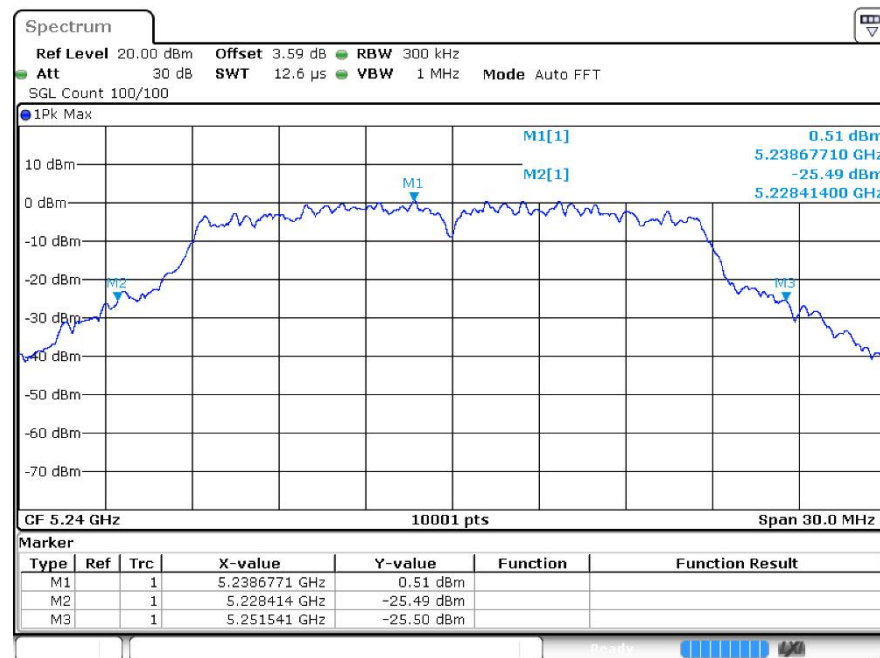
-26dB Bandwidth n20 5180MHz Ant1



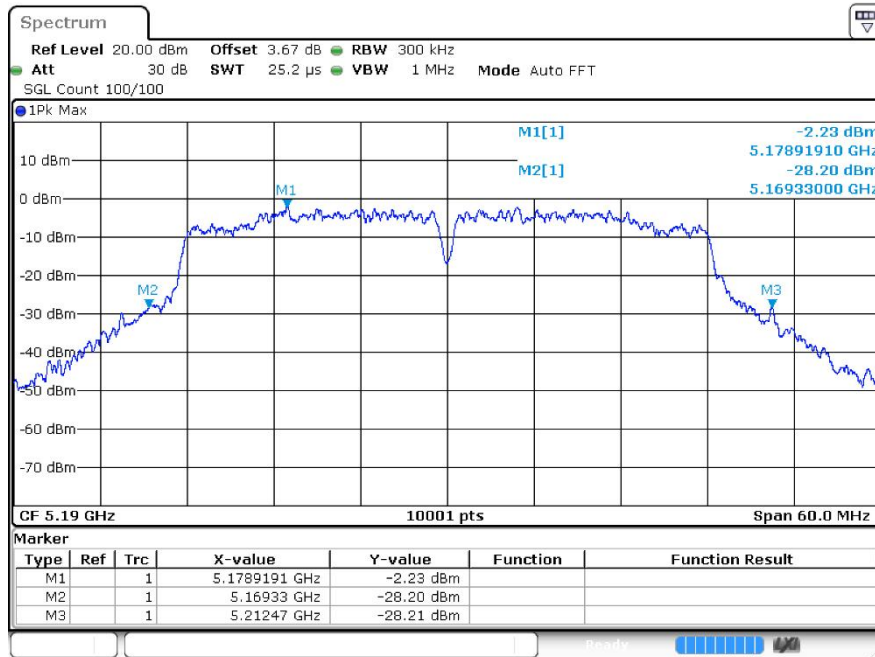
-26dB Bandwidth n20 5200MHz Ant1



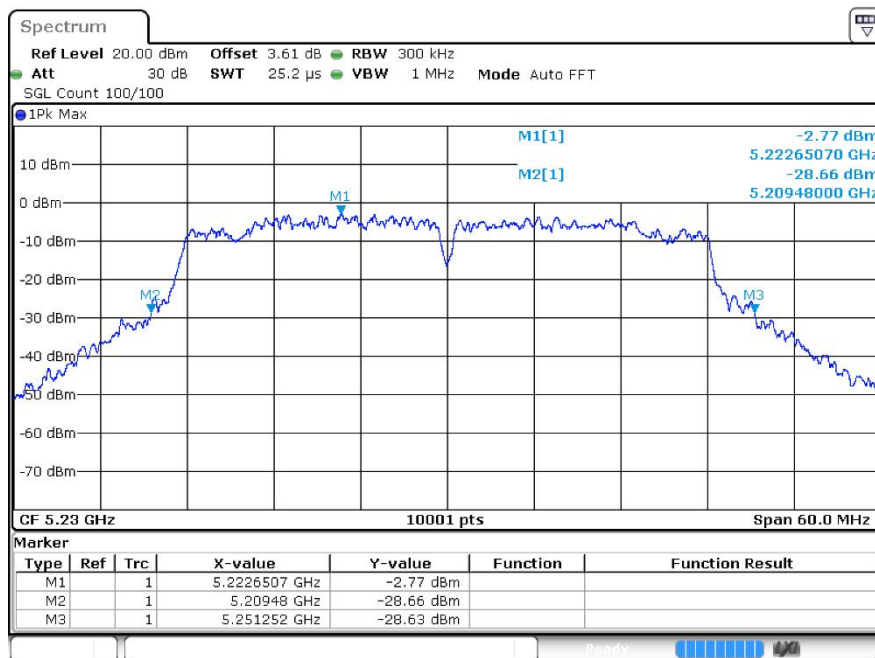
-26dB Bandwidth n20 5240MHz Ant1



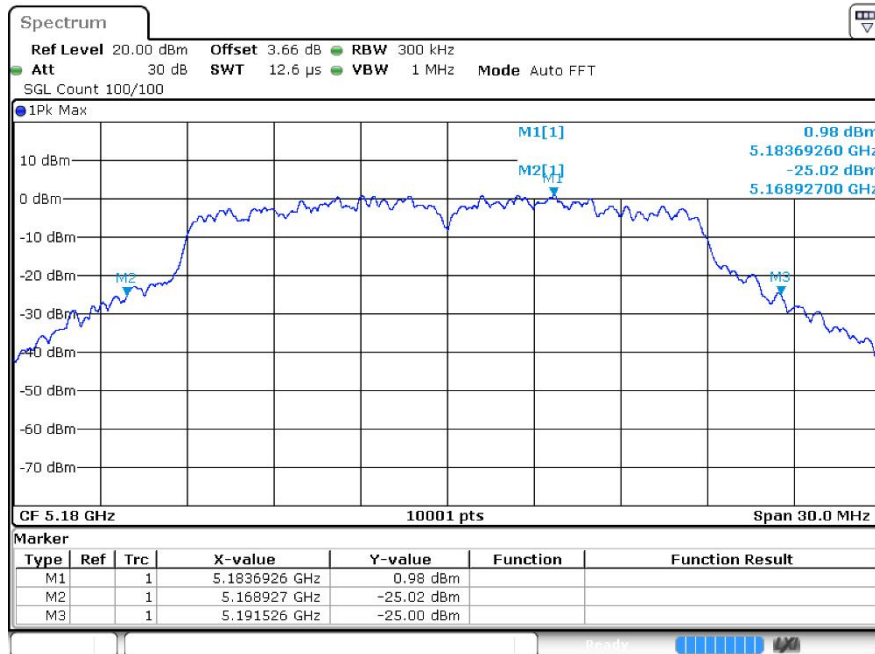
-26dB Bandwidthn40 5190MHz Ant1



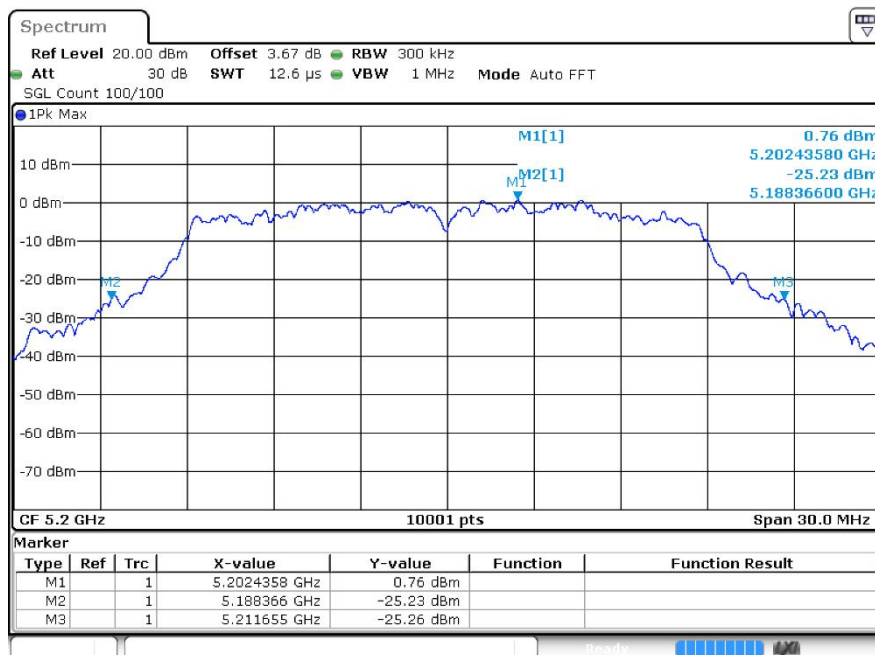
-26dB Bandwidthn40 5230MHz Ant1



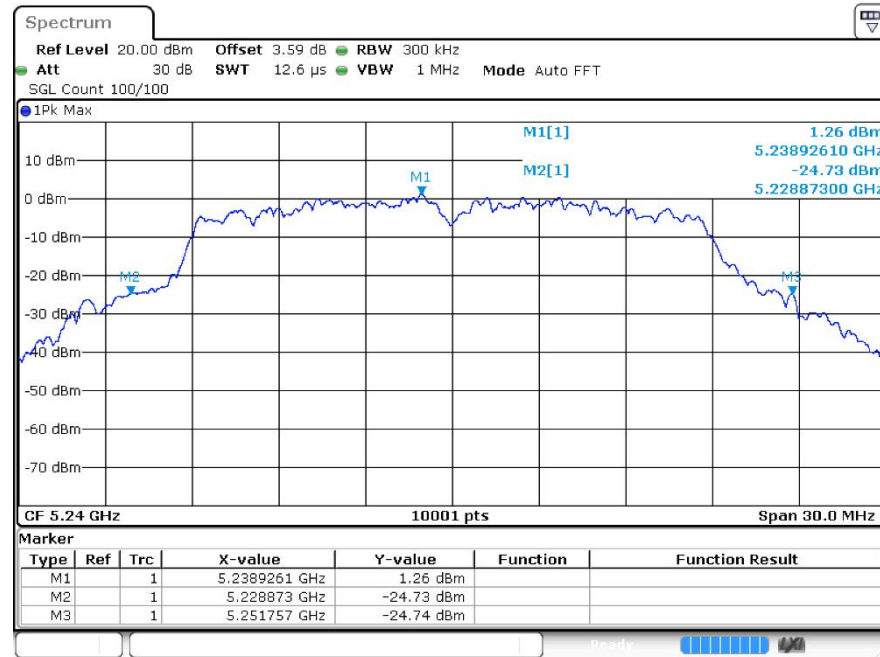
-26dB Bandwidth ac20 5180MHz Ant1



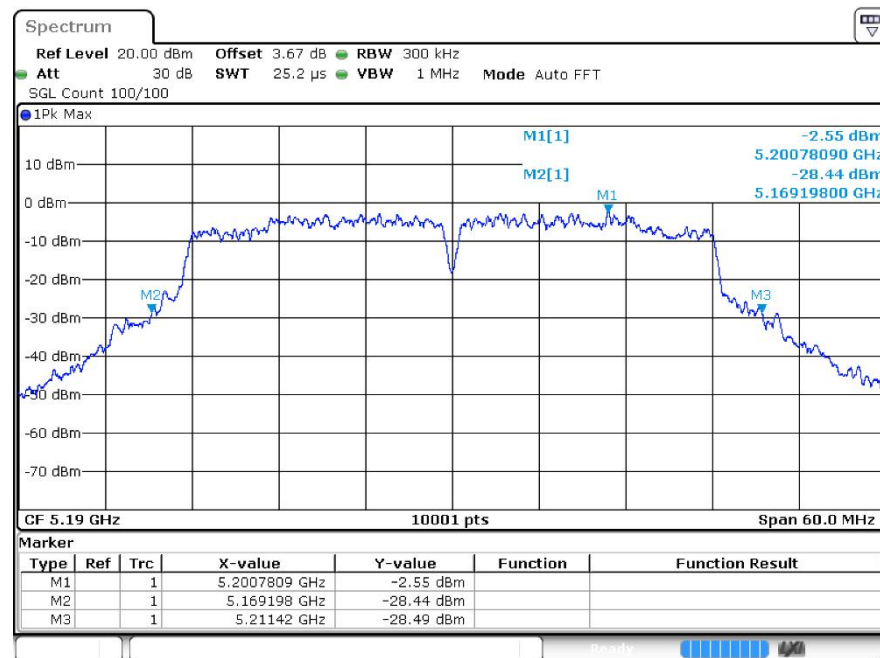
-26dB Bandwidth ac20 5200MHz Ant1



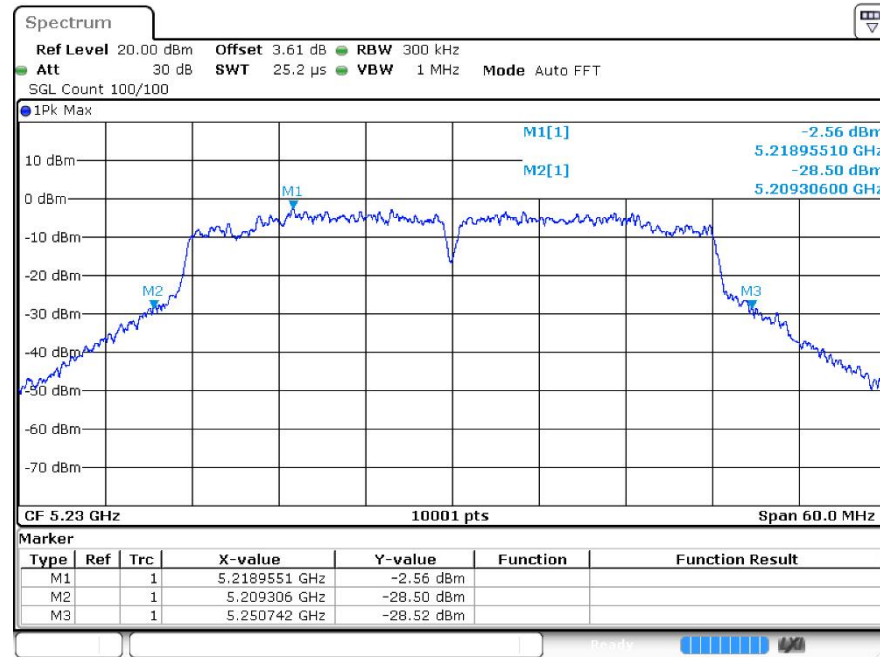
-26dB Bandwidth ac20 5240MHz Ant1



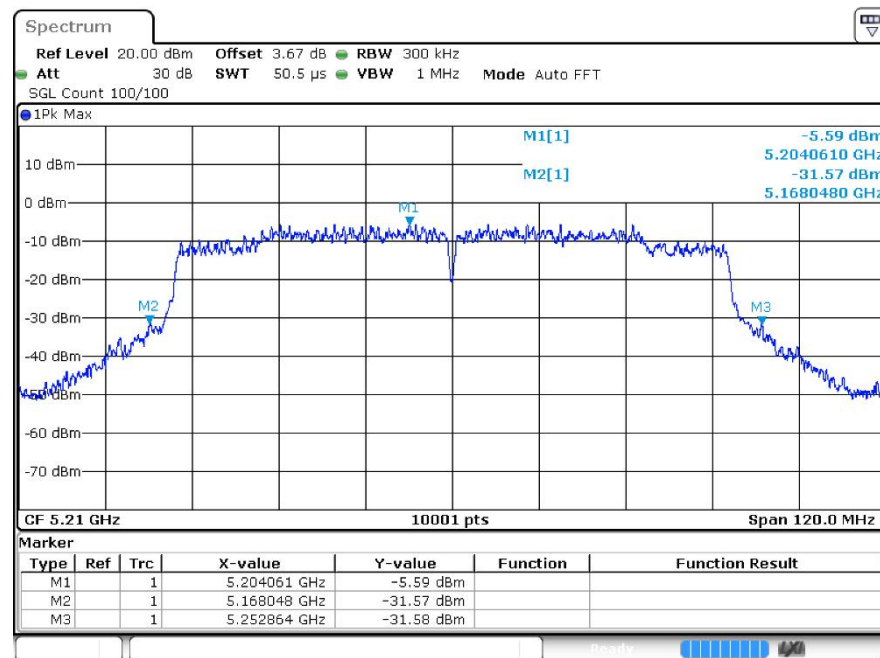
-26dB Bandwidthac40 5190MHz Ant1



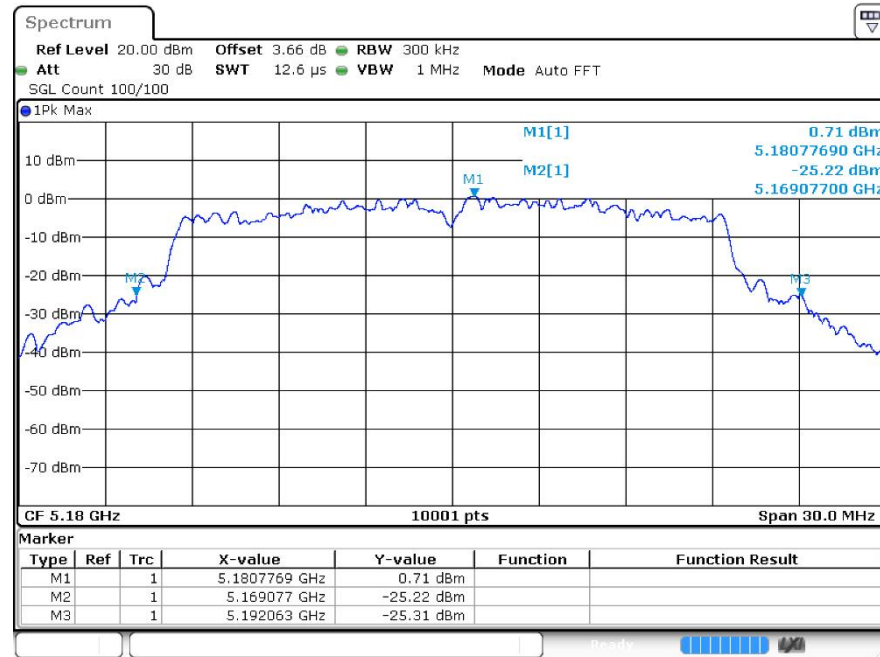
-26dB Bandwidthac40 5230MHz Ant1



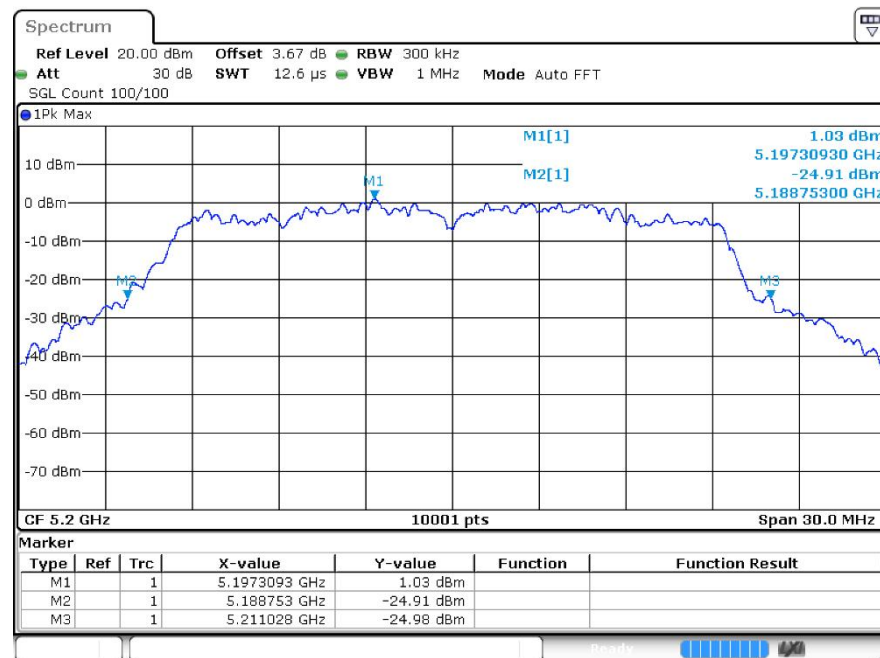
-26dB Bandwidthac80 5210MHz Ant1



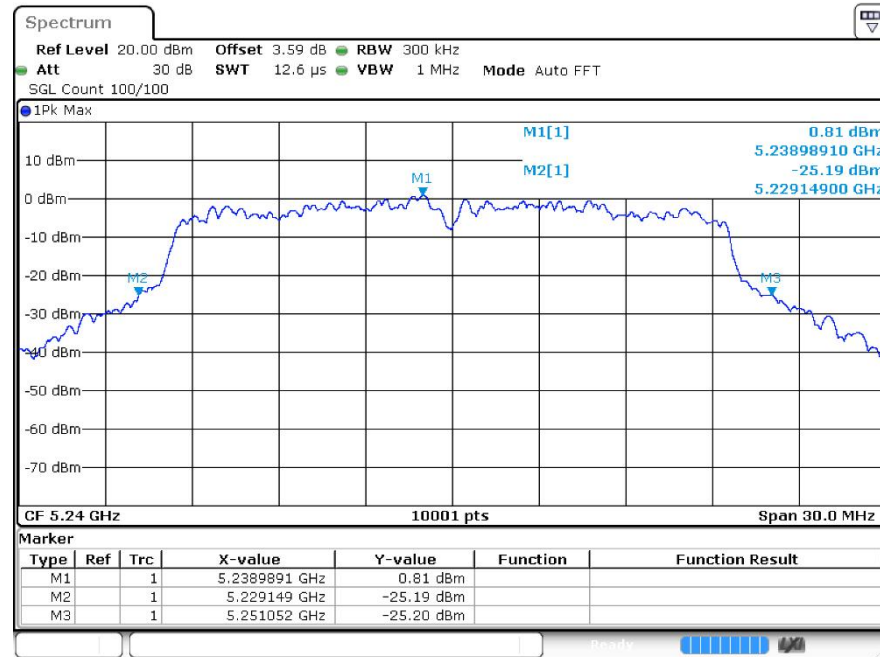
-26dB Bandwidth ax20 5180MHz Ant1



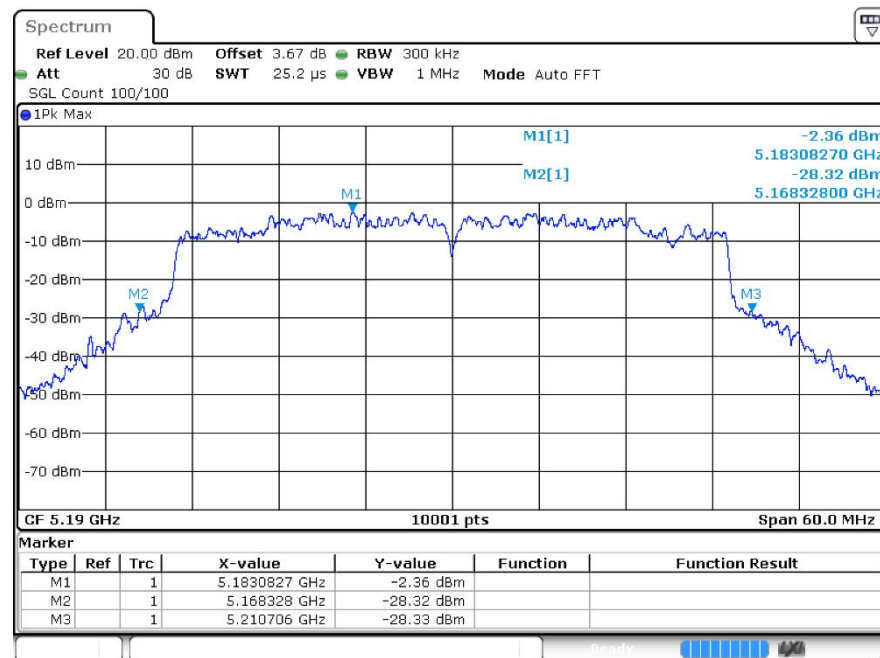
-26dB Bandwidth ax20 5200MHz Ant1



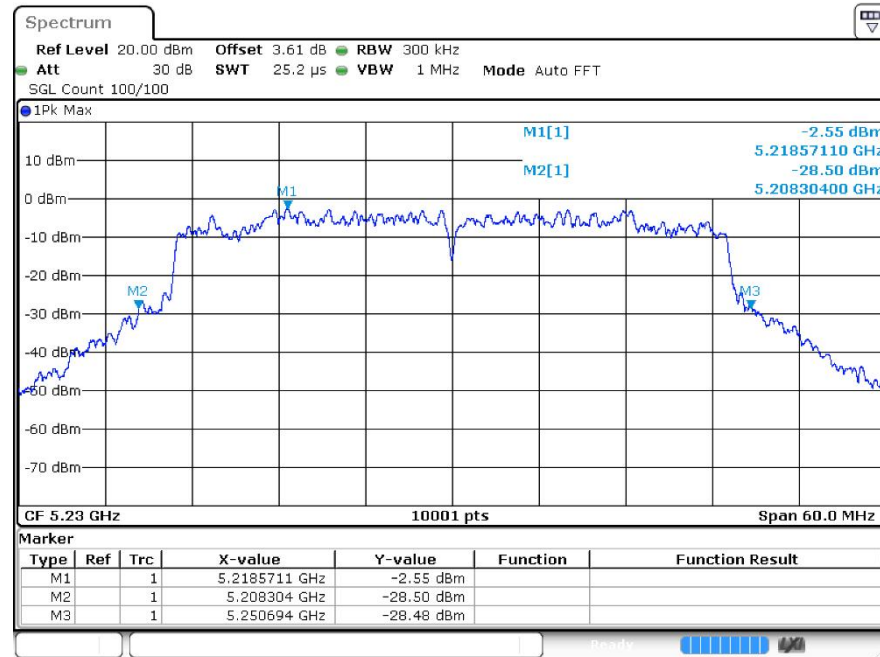
-26dB Bandwidth ax20 5240MHz Ant1



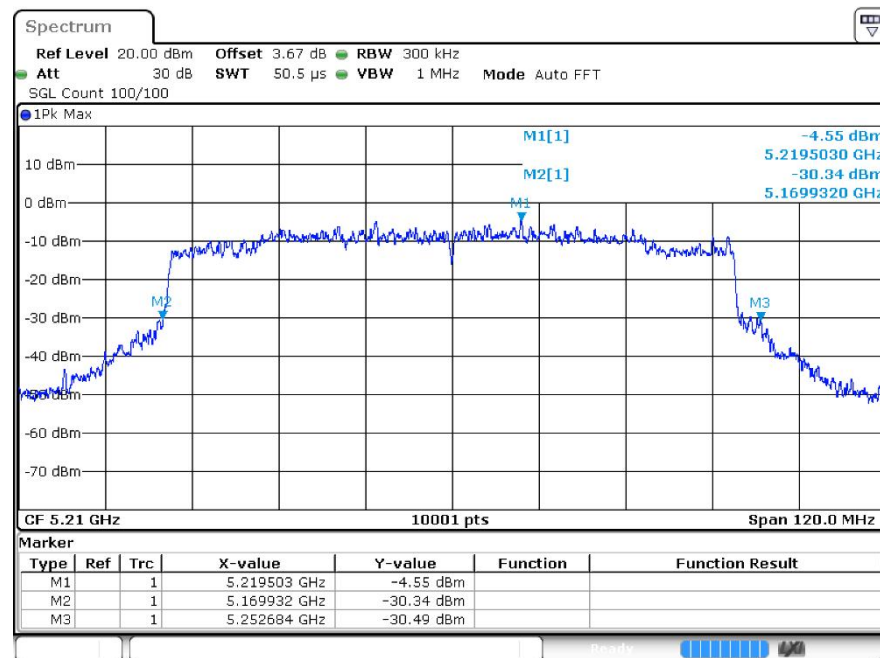
-26dB Bandwidthax40 5190MHz Ant1



-26dB Bandwidthax40 5230MHz Ant1



-26dB Bandwidthax80 5210MHz Ant1



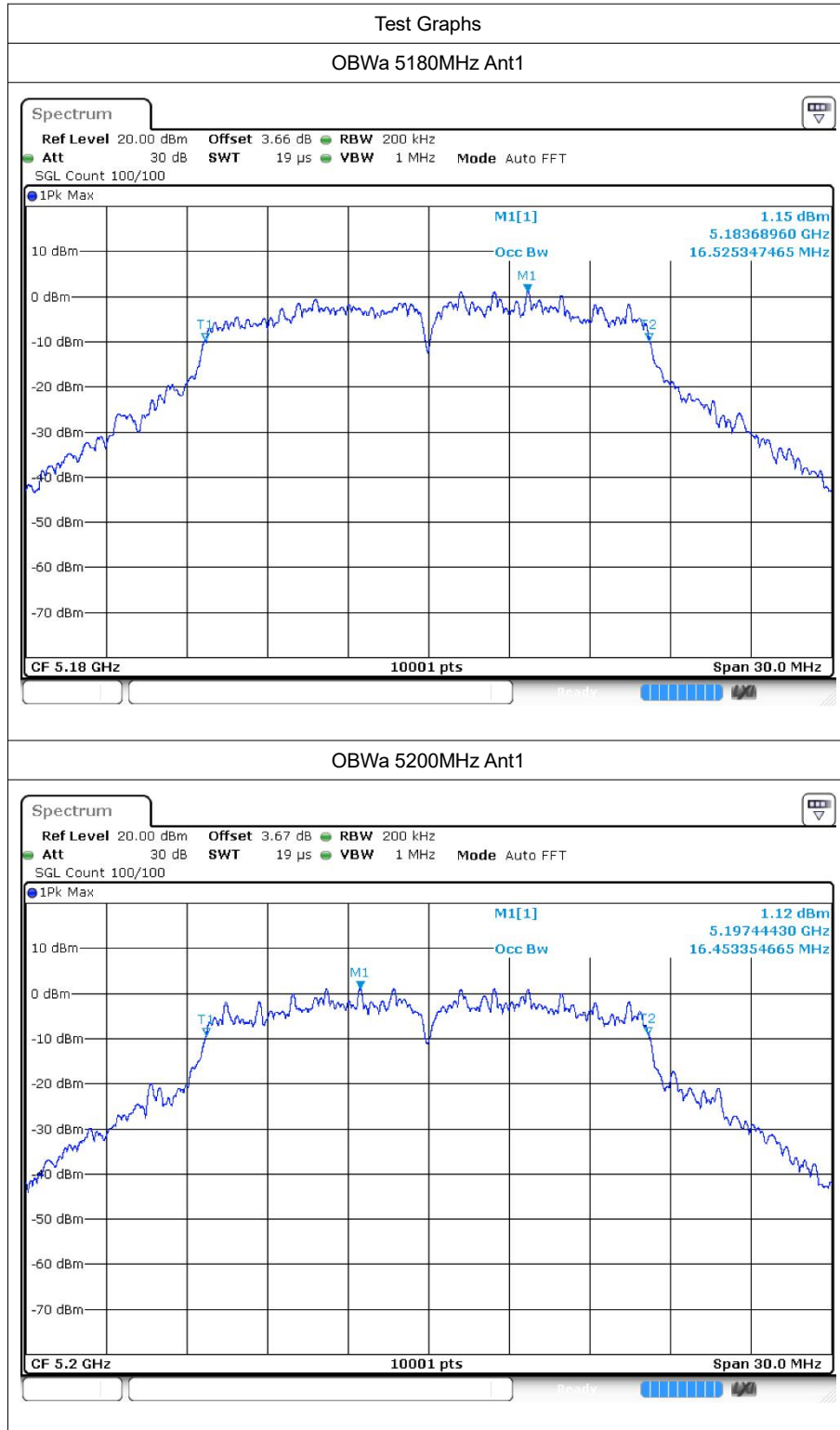


4 Occupied Channel Bandwidth

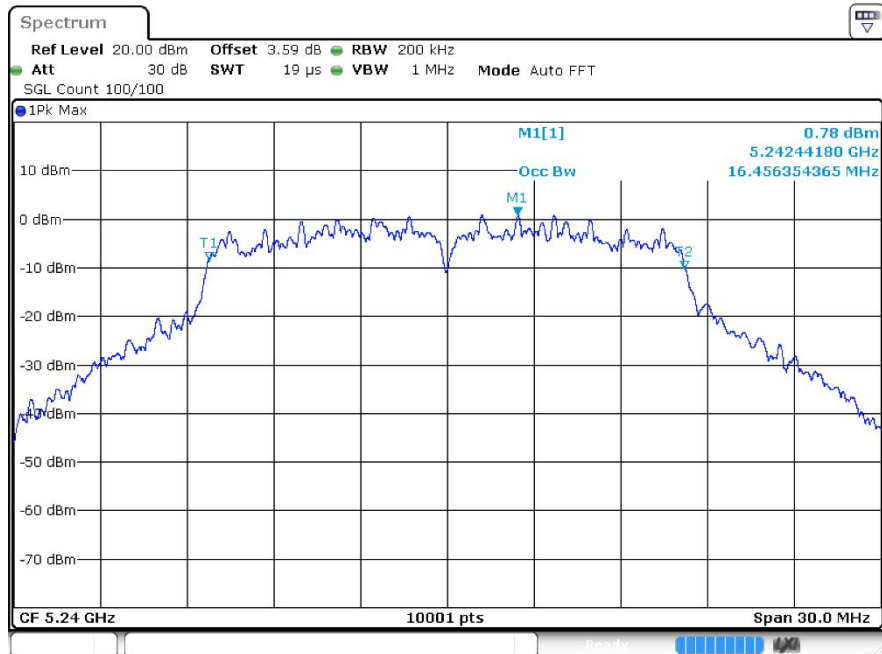
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.525
a	5200	Ant1	16.453
a	5240	Ant1	16.456
n20	5180	Ant1	17.704
n20	5200	Ant1	17.593
n20	5240	Ant1	17.578
n40	5190	Ant1	36.032
n40	5230	Ant1	35.99
ac20	5180	Ant1	17.587
ac20	5200	Ant1	17.599
ac20	5240	Ant1	17.611
ac40	5190	Ant1	36.14
ac40	5230	Ant1	36.2
ac80	5210	Ant1	75.136
ax20	5180	Ant1	18.82
ax20	5200	Ant1	18.751
ax20	5240	Ant1	18.868
ax40	5190	Ant1	37.244
ax40	5230	Ant1	37.514
ax80	5210	Ant1	76.612

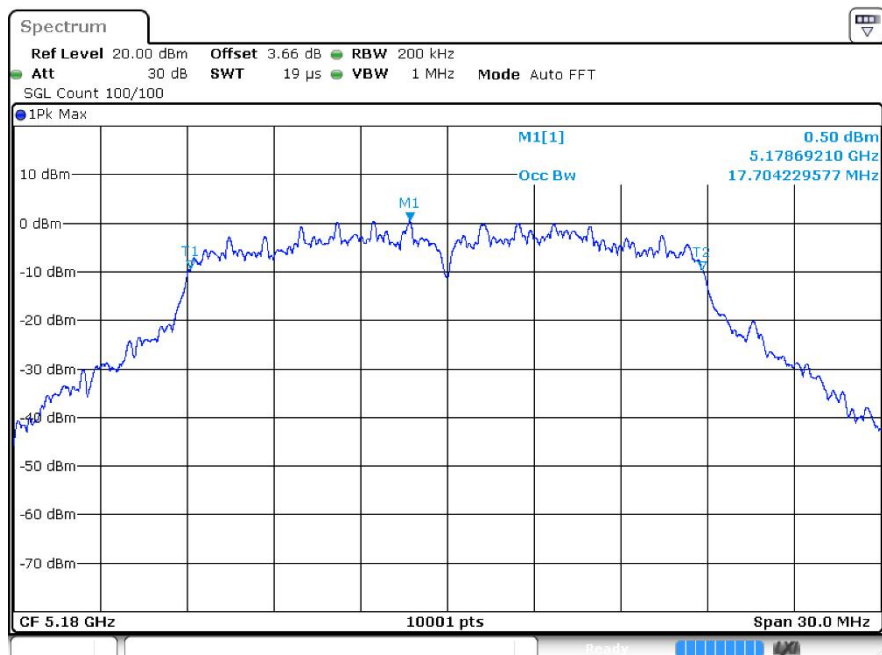
4.2 Test Graphs



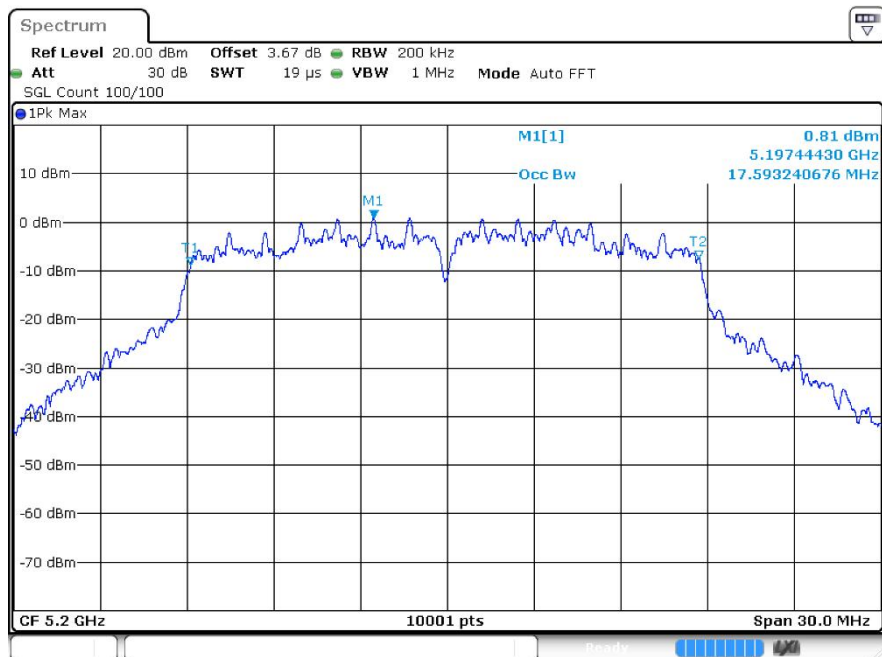
OBWa 5240MHz Ant1



OBW n20 5180MHz Ant1



OBW n20 5200MHz Ant1



OBW n20 5240MHz Ant1

