



Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Mini PC

Trade Mark: Huidun

Test Model: H30

Environmental Conditions

Temperature:	24.8℃
Relative Humidity:	52.3%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung



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1 Duty Cycle

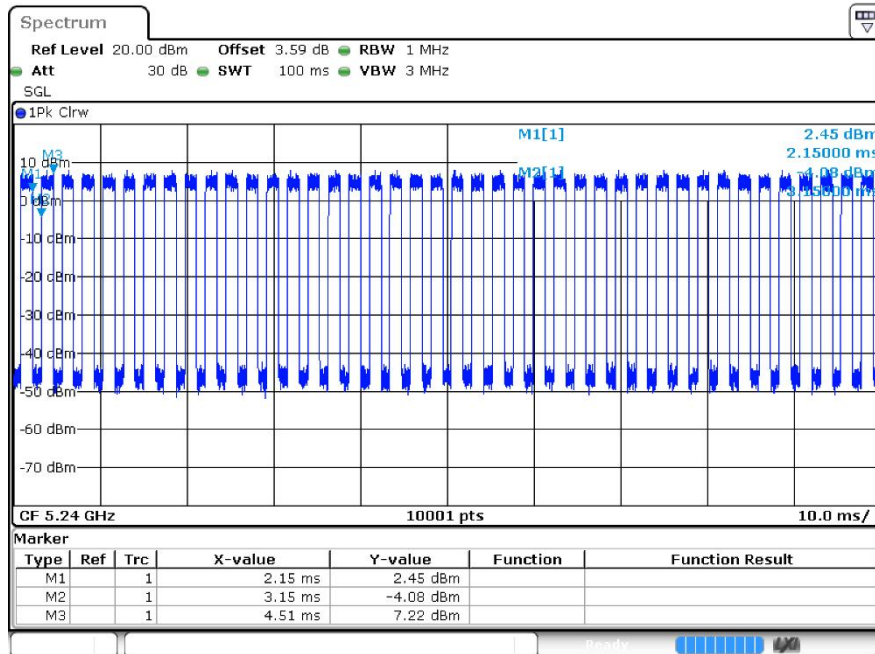
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	58.07	2.36	0.74
a	5200	Ant1	57.92	2.37	0.74
a	5240	Ant1	57.59	2.4	0.74
n20	5180	Ant1	56.3	2.49	0.79
n20	5200	Ant1	56.47	2.48	0.78
n20	5240	Ant1	56.31	2.49	0.79
n40	5190	Ant1	48.87	3.11	1.08
n40	5230	Ant1	48.44	3.15	1.08
ac20	5180	Ant1	56.3	2.49	0.78
ac20	5200	Ant1	56.67	2.47	0.78
ac20	5240	Ant1	56.61	2.47	0.79
ac40	5190	Ant1	48.38	3.15	1.08
ac40	5230	Ant1	48.81	3.12	1.08
ac80	5210	Ant1	42.79	3.69	1.43

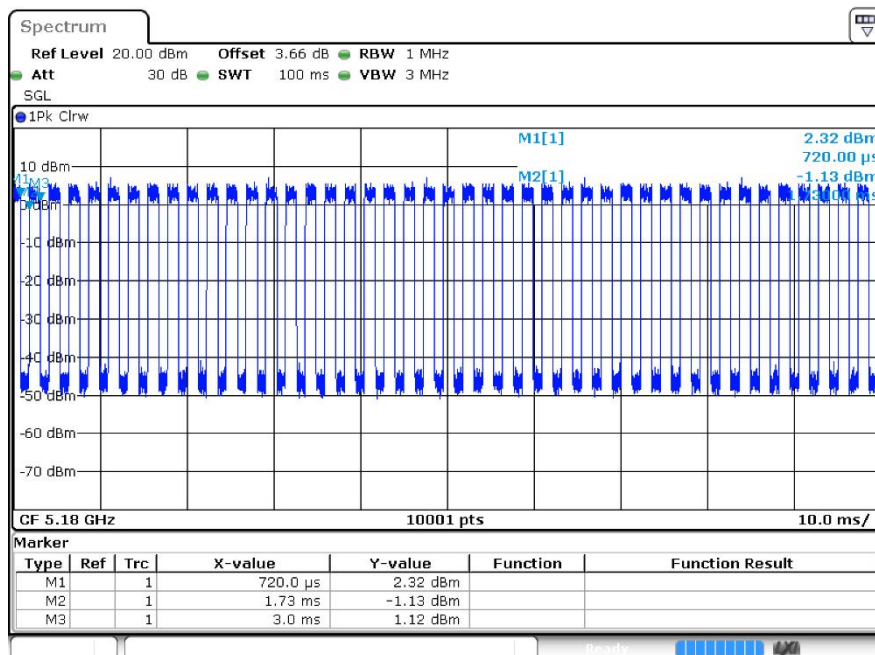
1.2 Test Graphs



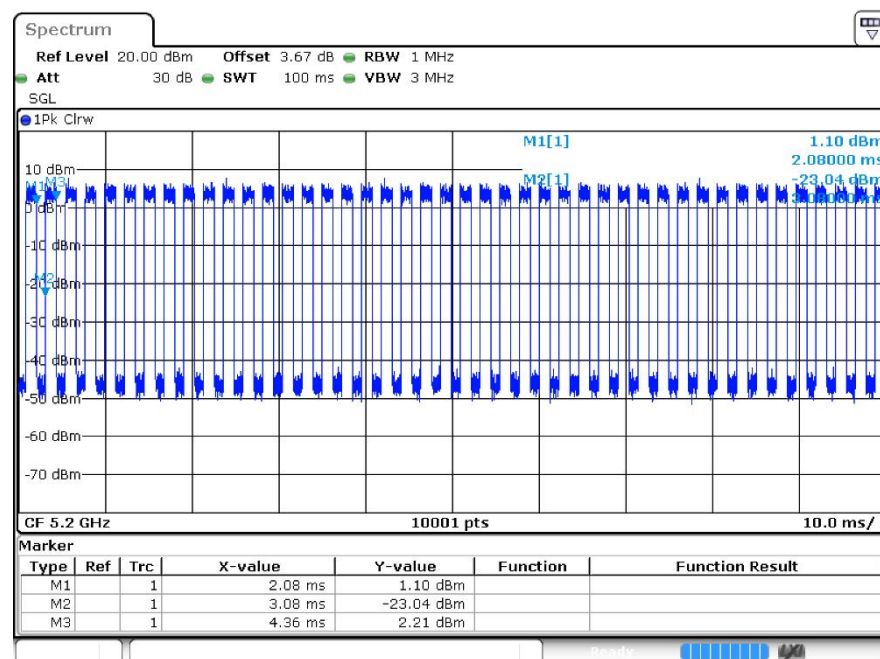
Duty Cyclea 5240MHz Ant1



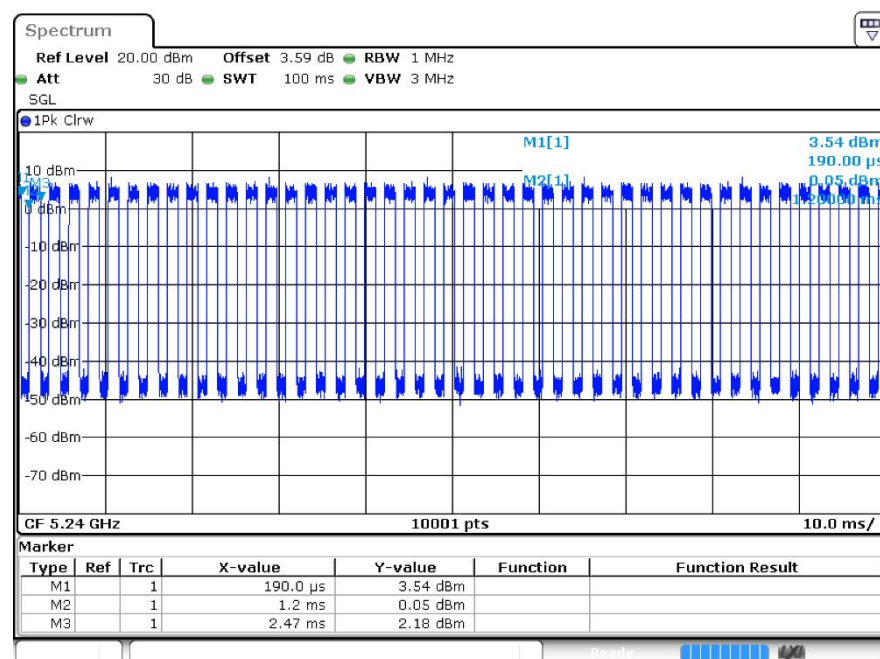
Duty Cycle n20 5180MHz Ant1



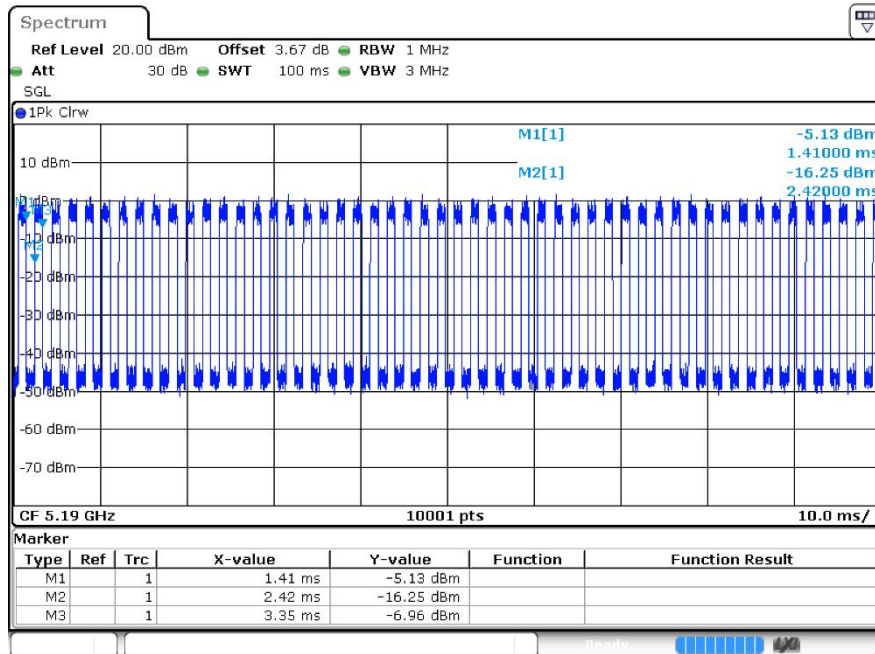
Duty Cycle n20 5200MHz Ant1



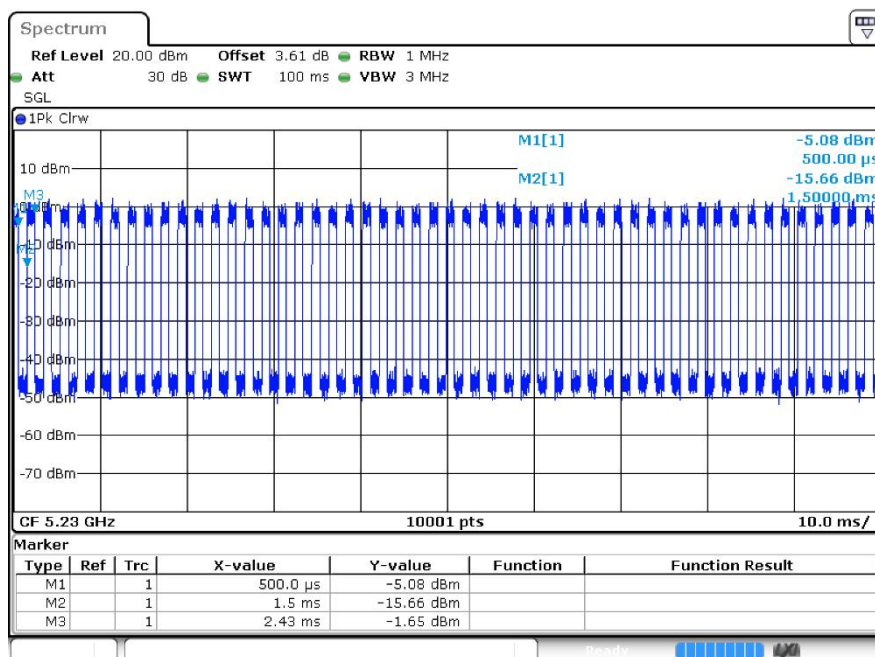
Duty Cycle n20 5240MHz Ant1



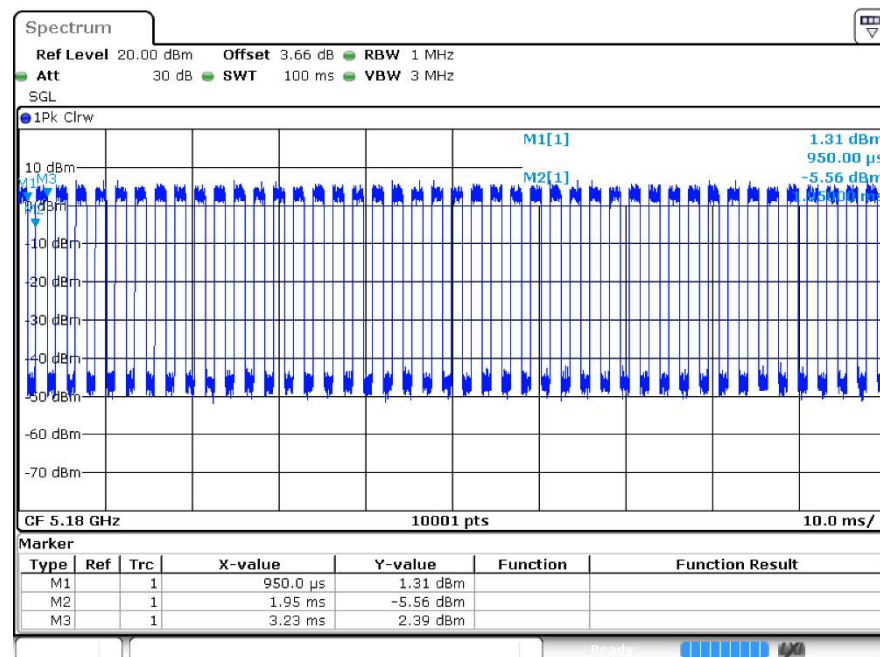
Duty Cyclen40 5190MHz Ant1



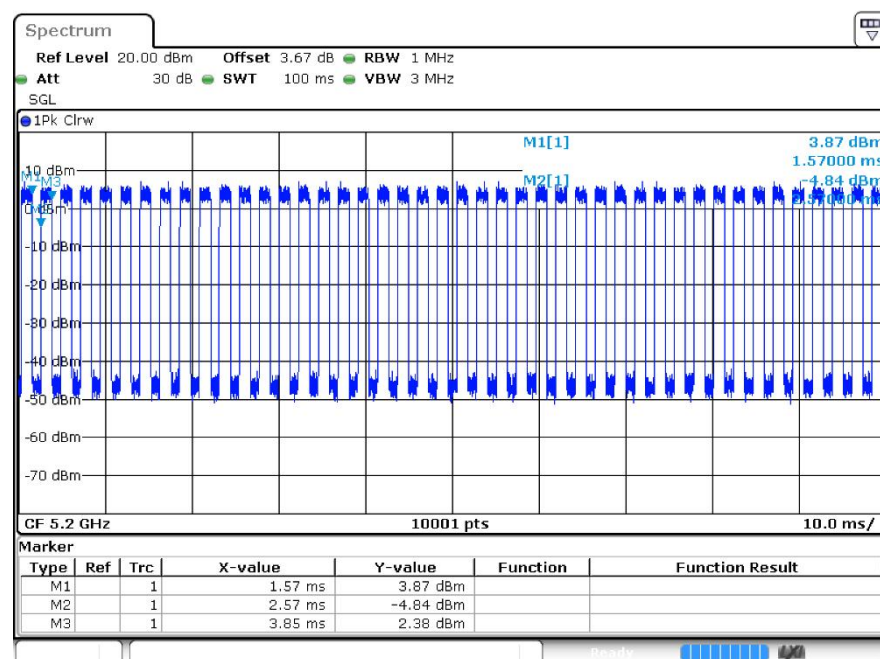
Duty Cyclen40 5230MHz Ant1



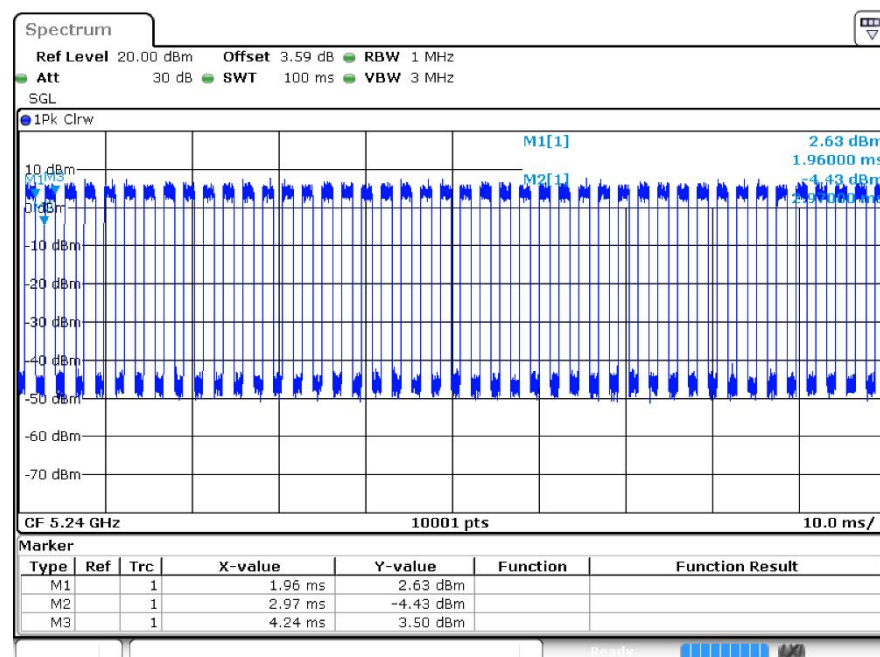
Duty Cycle ac20 5180MHz Ant1



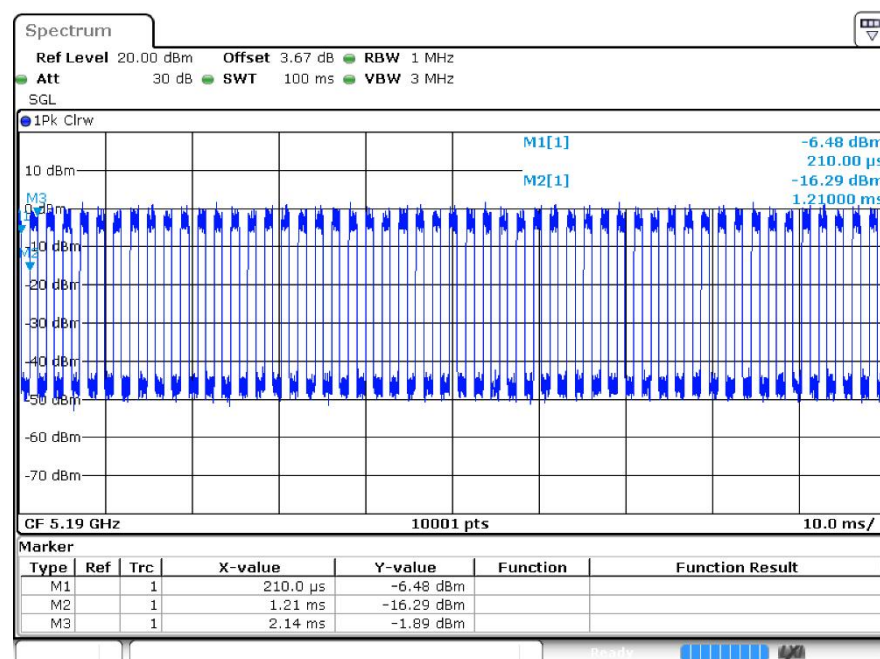
Duty Cycle ac20 5200MHz Ant1

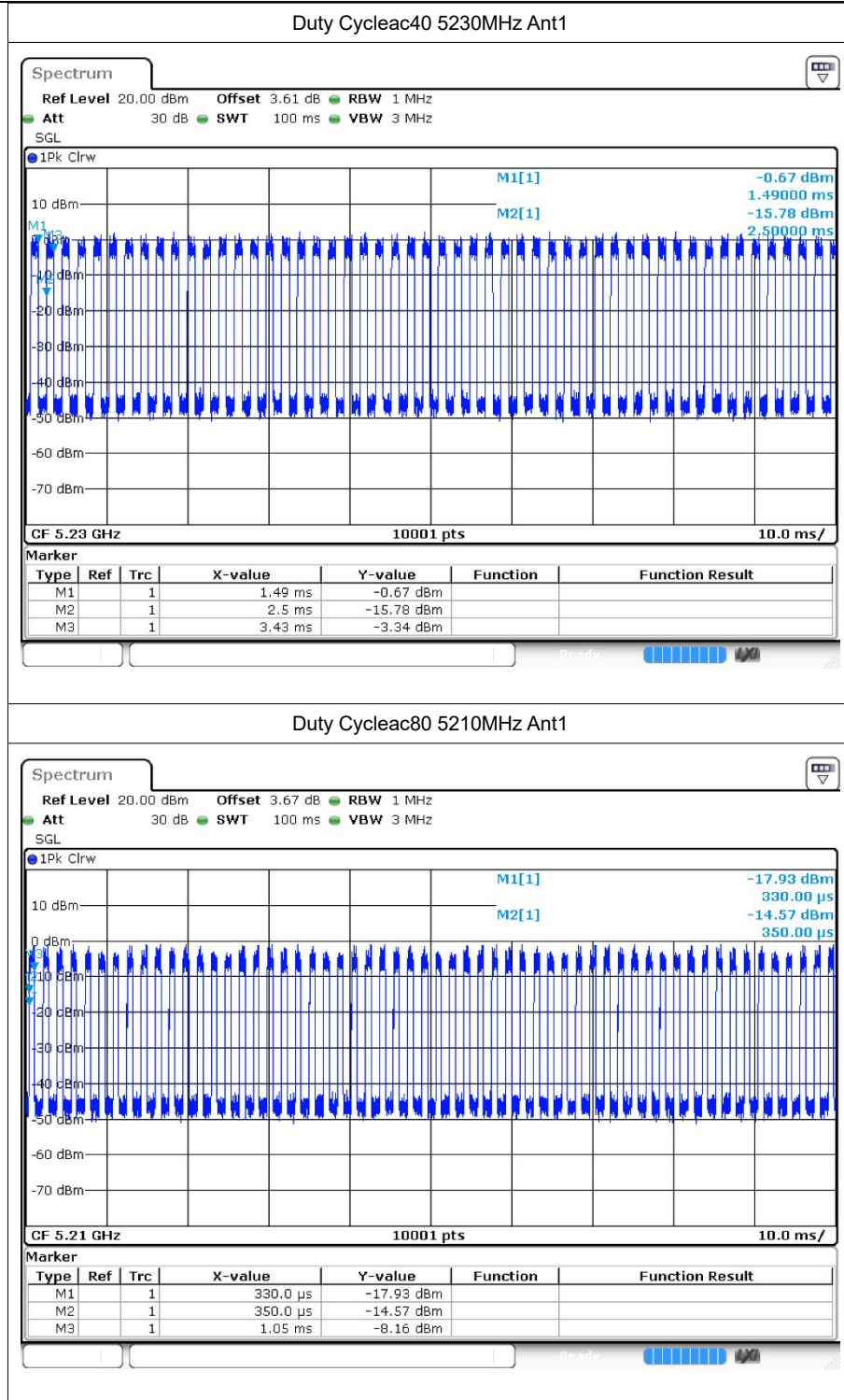


Duty Cycle ac20 5240MHz Ant1



Duty Cycleac40 5190MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	15.02	24	Pass
a	5200	Ant1	15.56	24	Pass
a	5240	Ant1	16.11	24	Pass
n20	5180	Ant1	14.57	24	Pass
n20	5200	Ant1	15.09	24	Pass
n20	5240	Ant1	15.54	24	Pass
n40	5190	Ant1	13.65	24	Pass
n40	5230	Ant1	14.41	24	Pass
ac20	5180	Ant1	14.49	24	Pass
ac20	5200	Ant1	15.04	24	Pass
ac20	5240	Ant1	15.65	24	Pass
ac40	5190	Ant1	13.73	24	Pass
ac40	5230	Ant1	14.37	24	Pass
ac80	5210	Ant1	13.66	24	Pass

Note:

The duty factor has been compensated into the result.

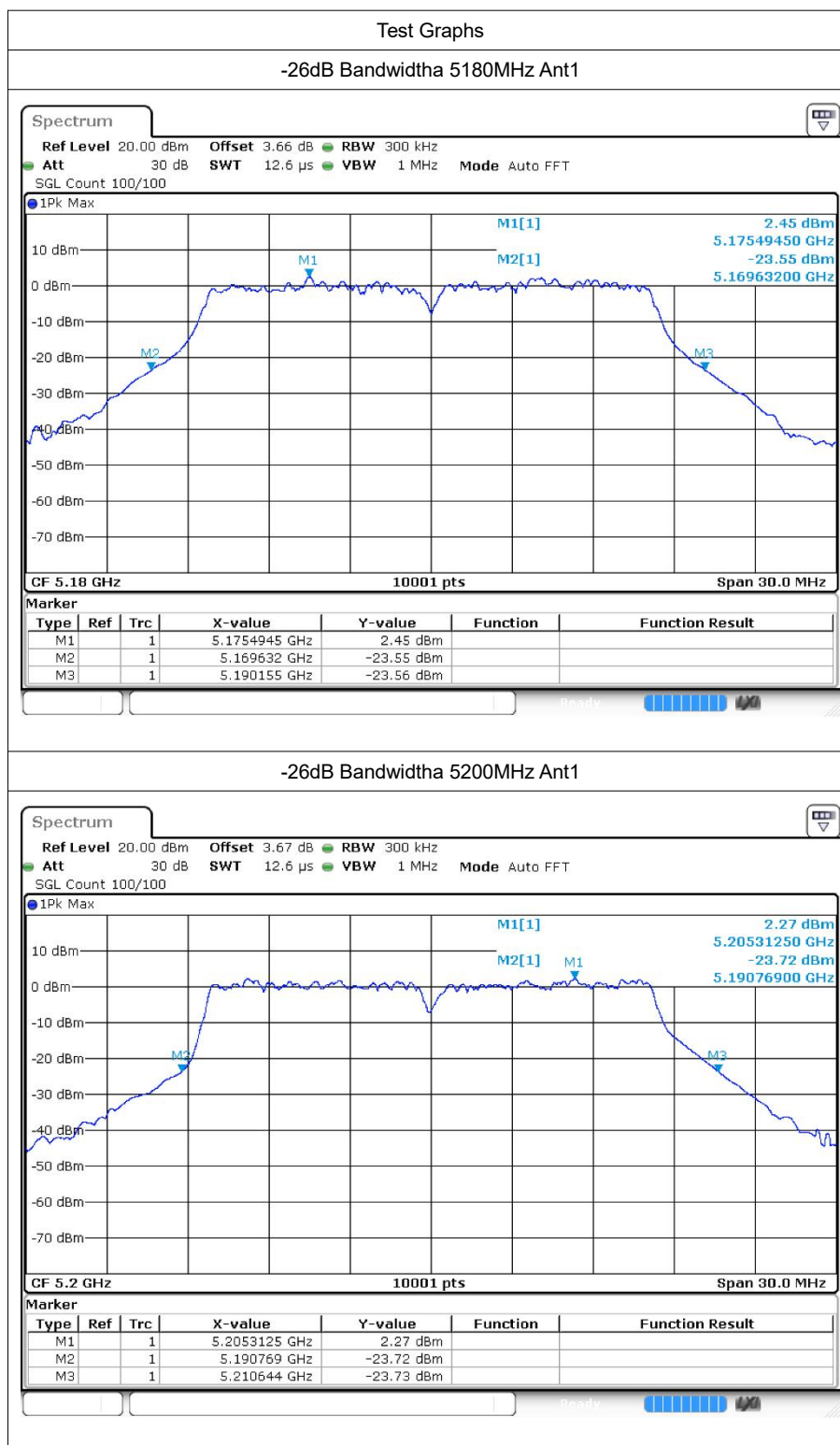


3 -26dB Bandwidth

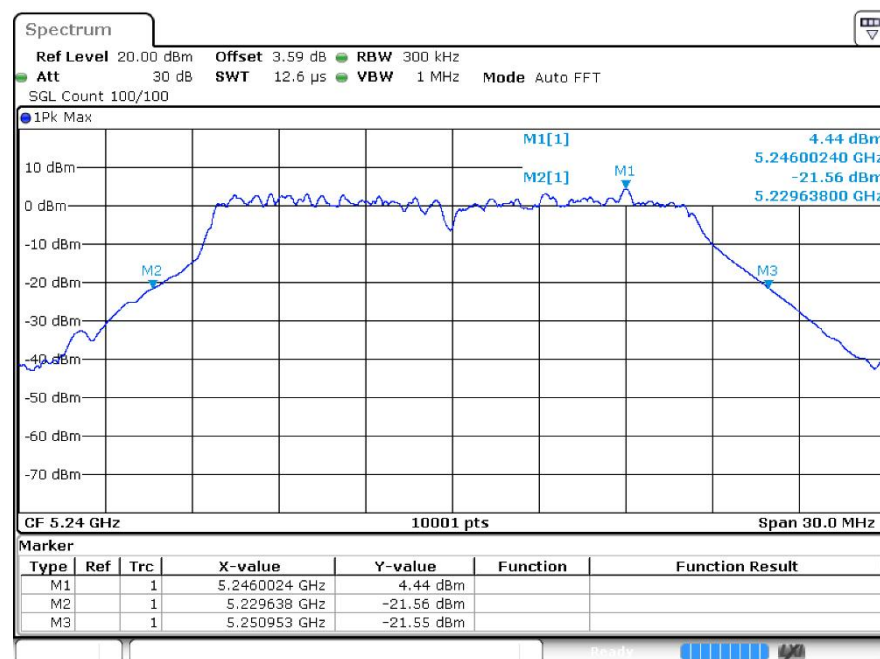
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	20.523	0.5	Pass
a	5200	Ant1	19.875	0.5	Pass
a	5240	Ant1	21.315	0.5	Pass
n20	5180	Ant1	21.675	0.5	Pass
n20	5200	Ant1	21.84	0.5	Pass
n20	5240	Ant1	21.138	0.5	Pass
n40	5190	Ant1	40.968	0.5	Pass
n40	5230	Ant1	40.422	0.5	Pass
ac20	5180	Ant1	22.398	0.5	Pass
ac20	5200	Ant1	21.114	0.5	Pass
ac20	5240	Ant1	21.714	0.5	Pass
ac40	5190	Ant1	40.464	0.5	Pass
ac40	5230	Ant1	40.542	0.5	Pass
ac80	5210	Ant1	79.74	0.5	Pass

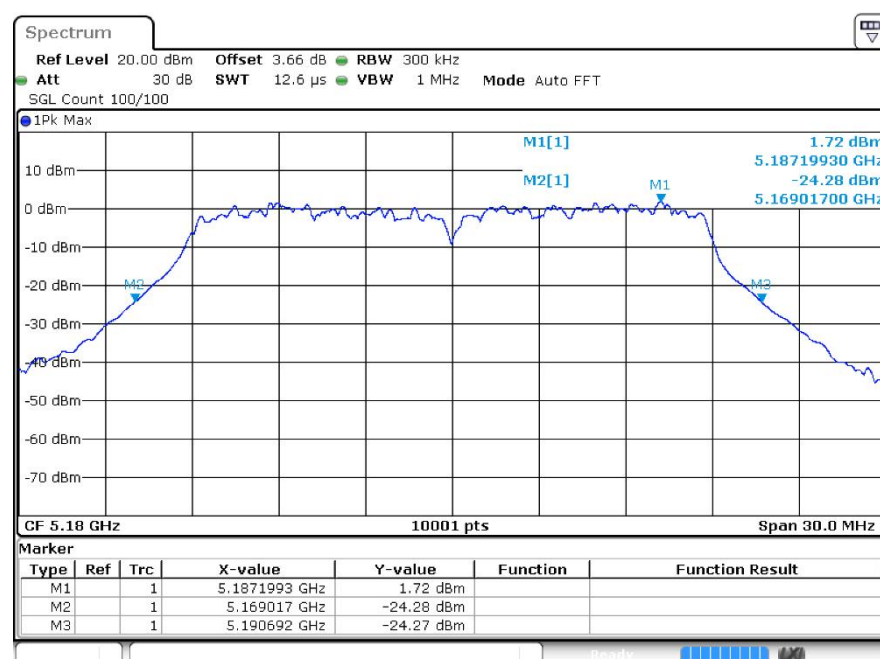
3.2 Test Graphs



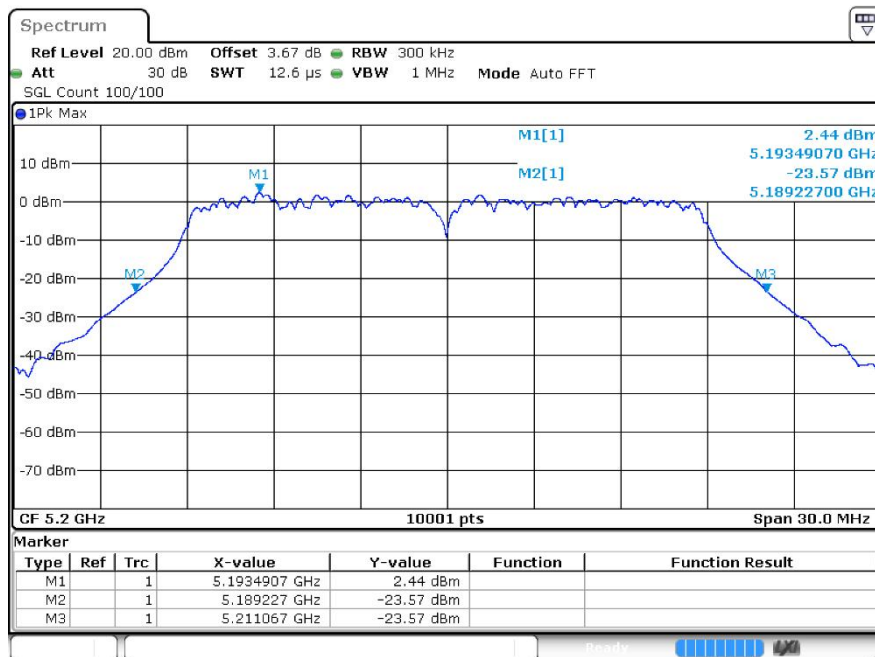
-26dB Bandwidth 5240MHz Ant1



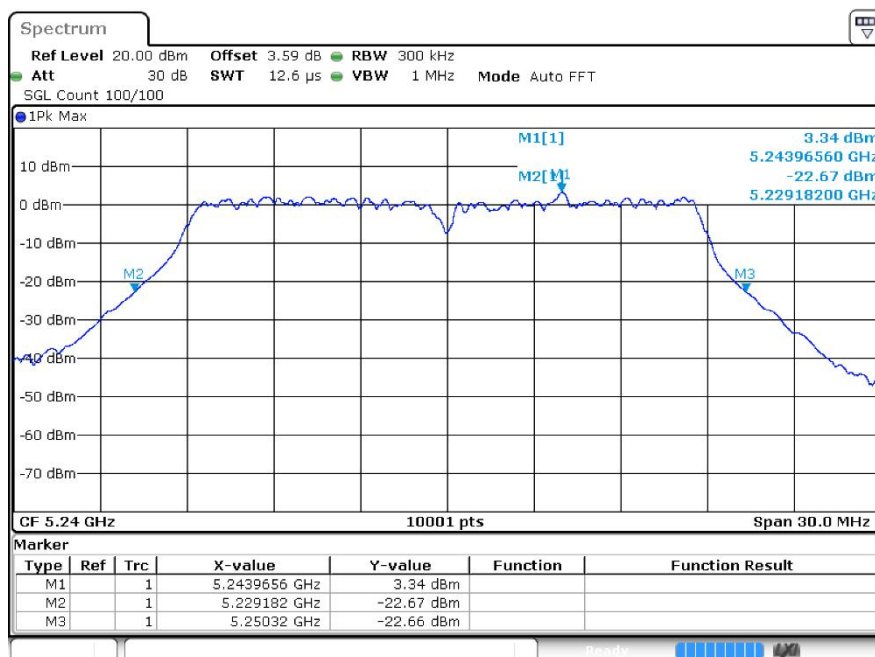
-26dB Bandwidth n20 5180MHz Ant1



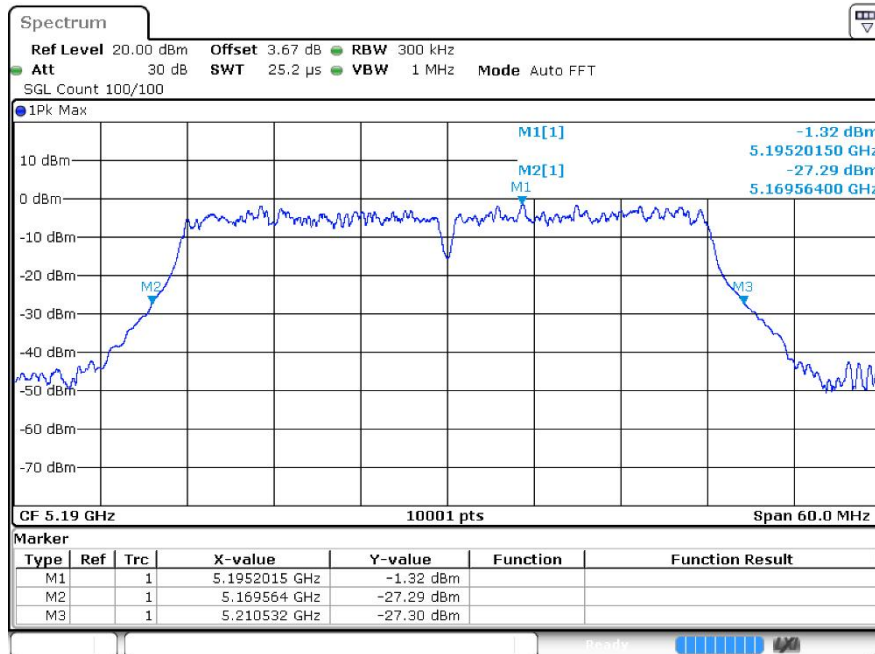
-26dB Bandwidth n20 5200MHz Ant1



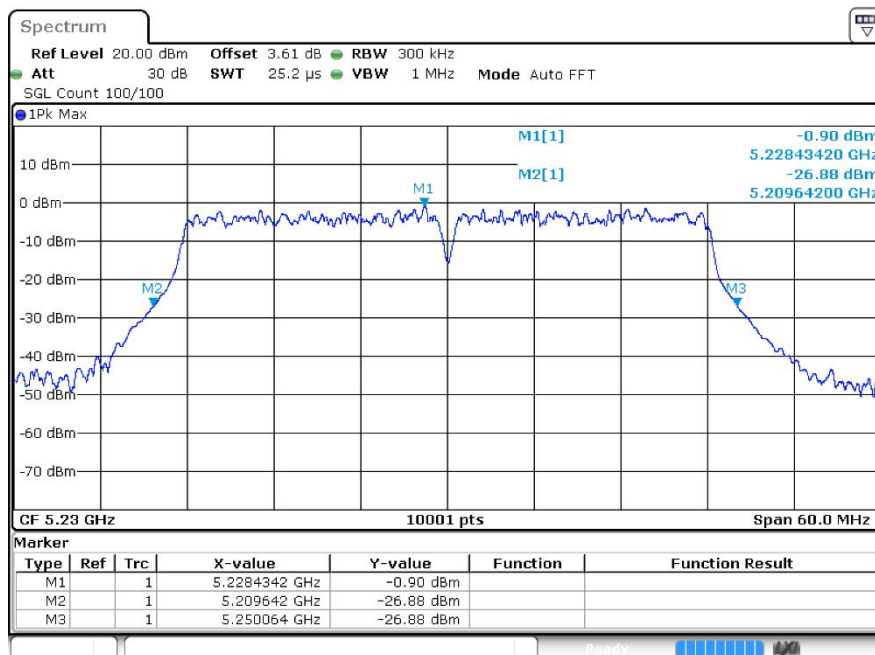
-26dB Bandwidth n20 5240MHz Ant1



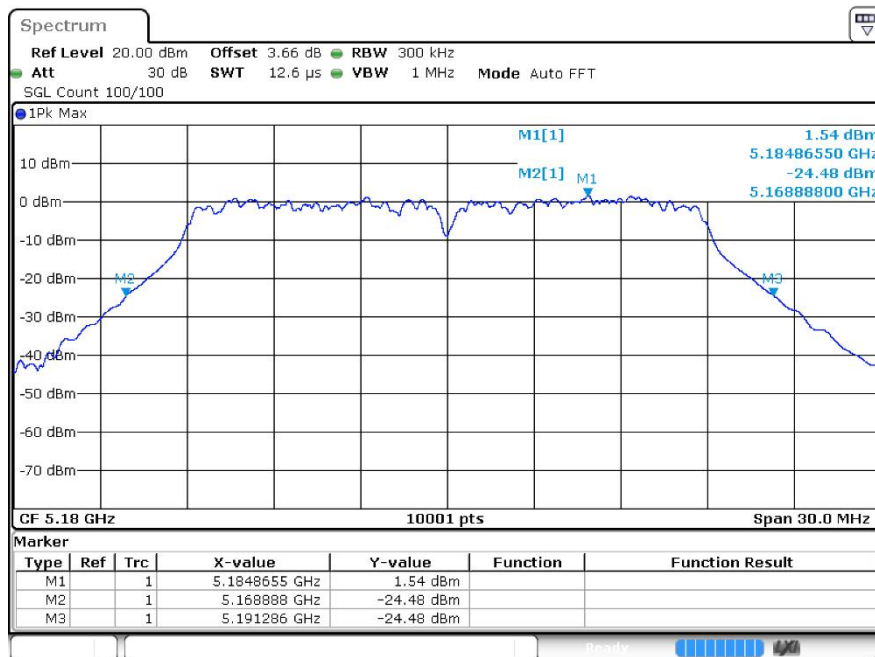
-26dB Bandwidthn40 5190MHz Ant1



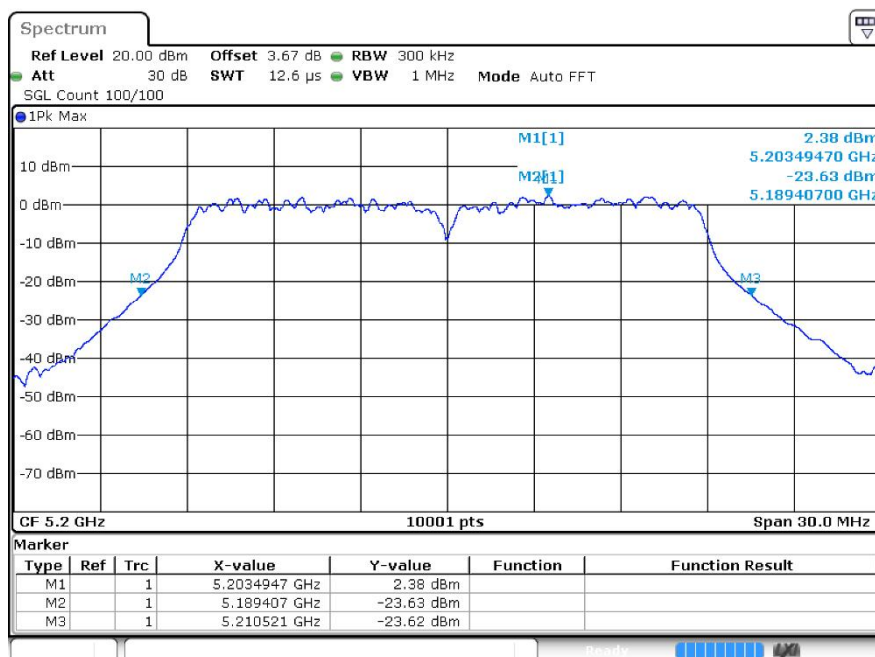
-26dB Bandwidthn40 5230MHz Ant1



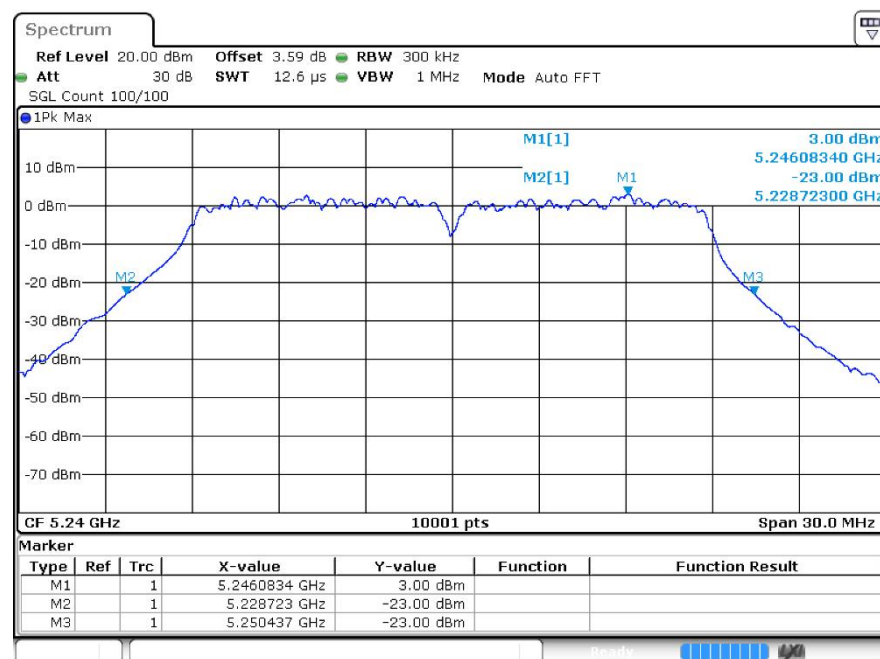
-26dB Bandwidth ac20 5180MHz Ant1



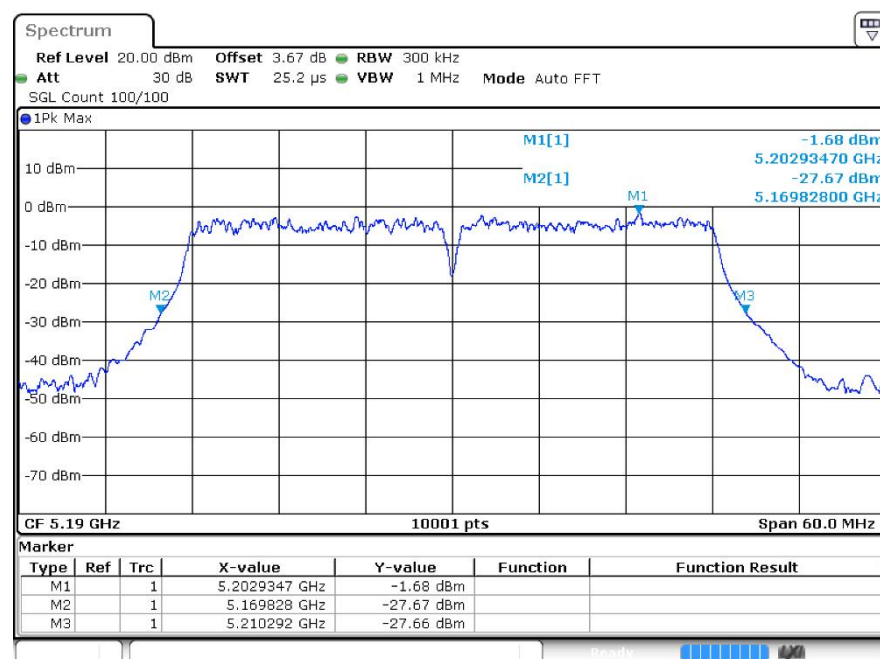
-26dB Bandwidth ac20 5200MHz Ant1



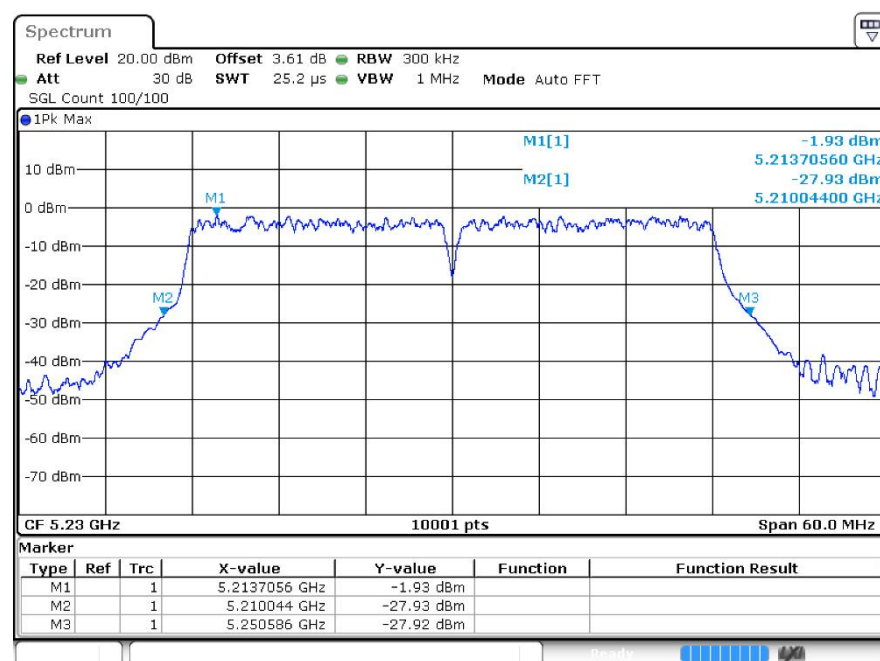
-26dB Bandwidth ac20 5240MHz Ant1



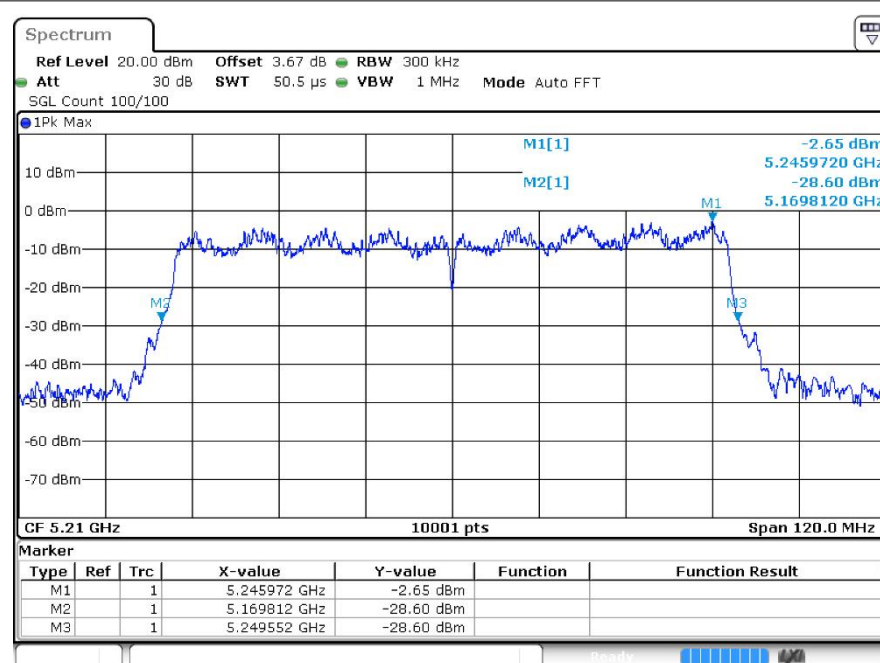
-26dB Bandwidthac40 5190MHz Ant1



-26dB Bandwidthac40 5230MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1



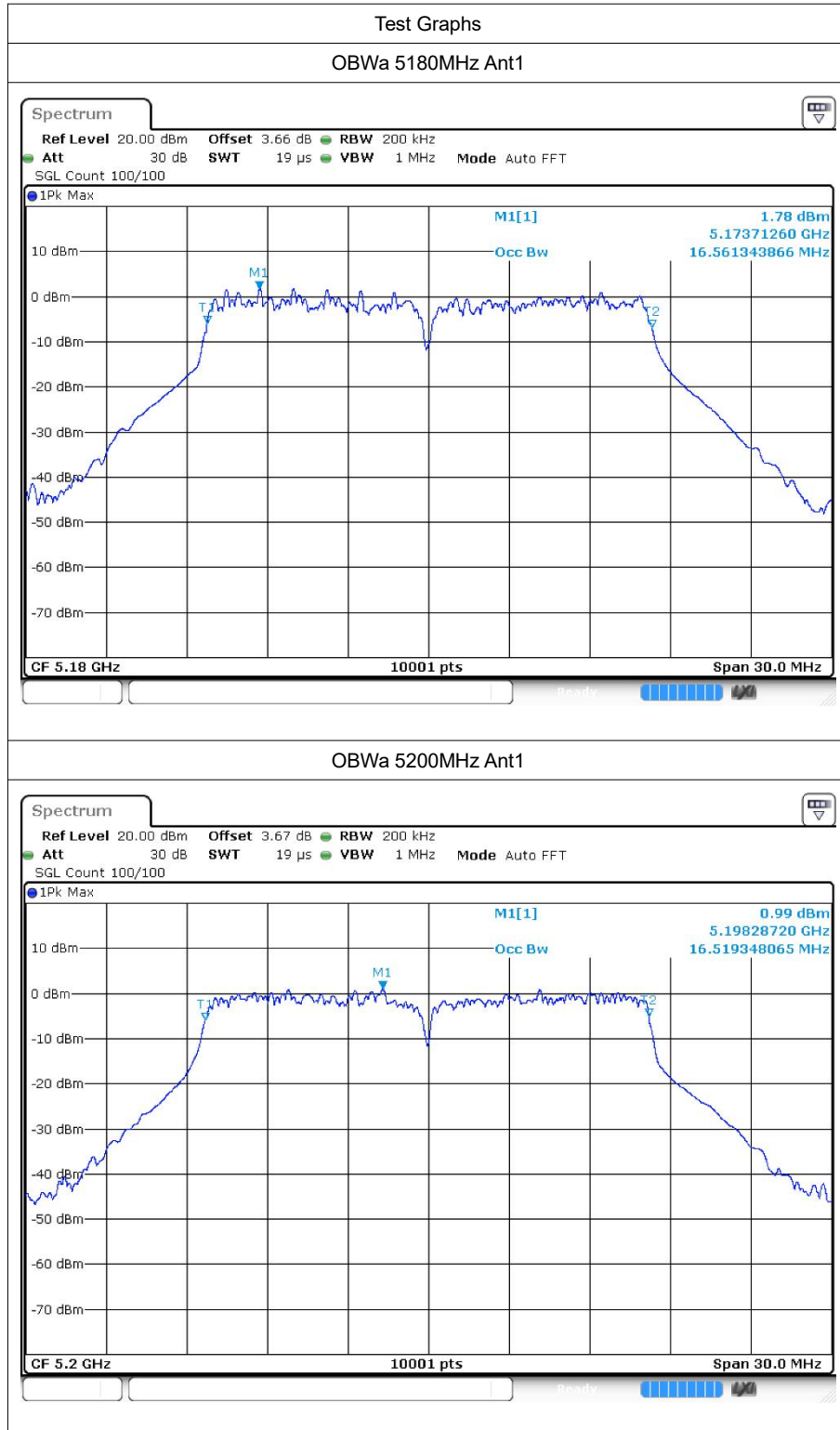


4 Occupied Channel Bandwidth

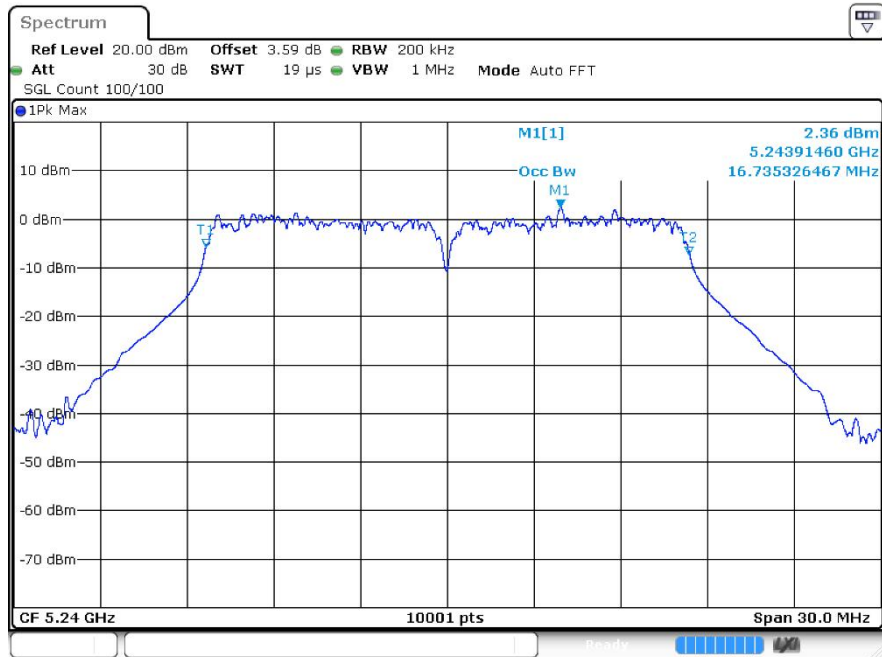
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.561
a	5200	Ant1	16.519
a	5240	Ant1	16.735
n20	5180	Ant1	17.788
n20	5200	Ant1	17.62
n20	5240	Ant1	17.773
n40	5190	Ant1	36.332
n40	5230	Ant1	36.212
ac20	5180	Ant1	17.773
ac20	5200	Ant1	17.725
ac20	5240	Ant1	17.677
ac40	5190	Ant1	36.284
ac40	5230	Ant1	36.524
ac80	5210	Ant1	75.688

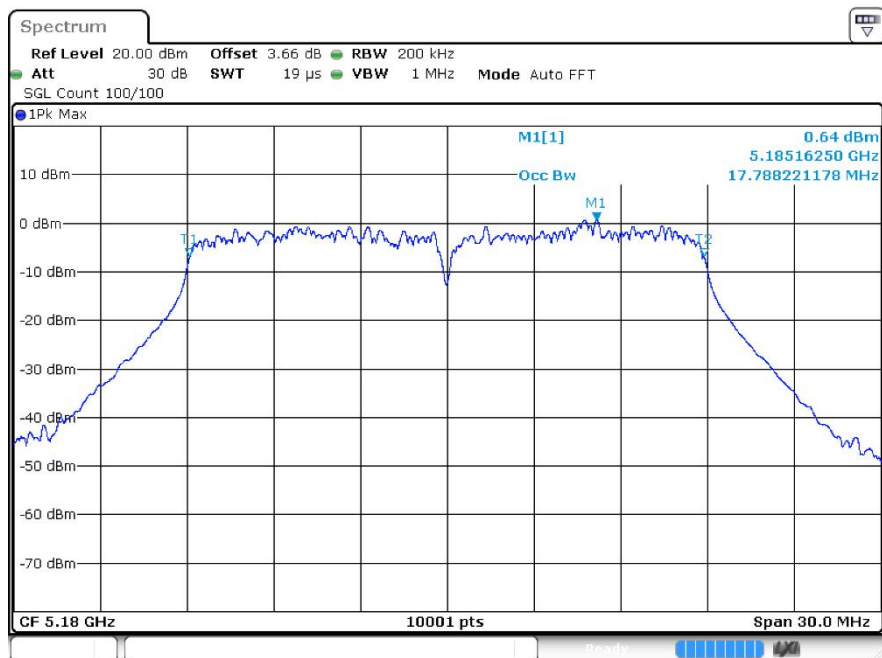
4.2 Test Graphs



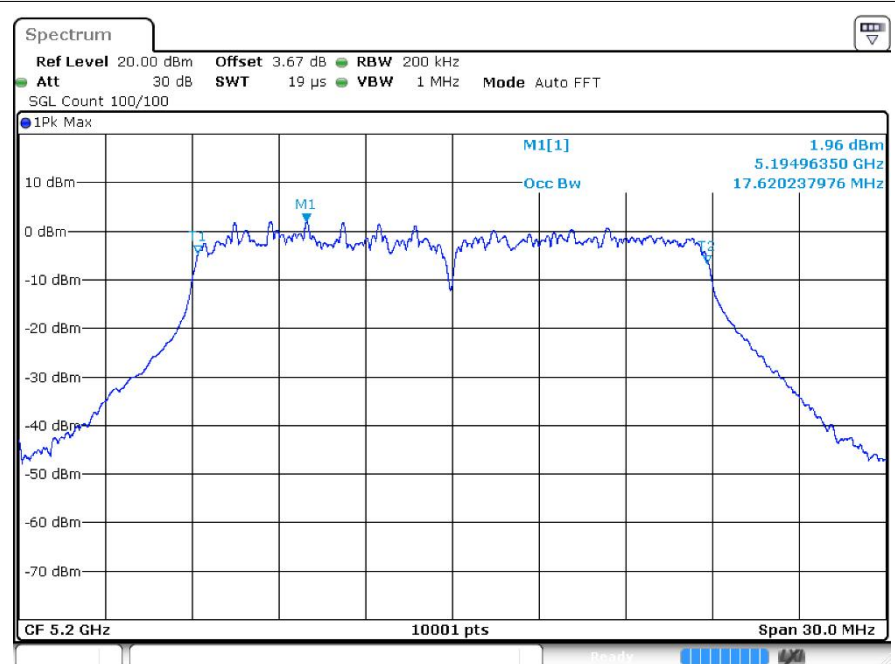
OBWa 5240MHz Ant1



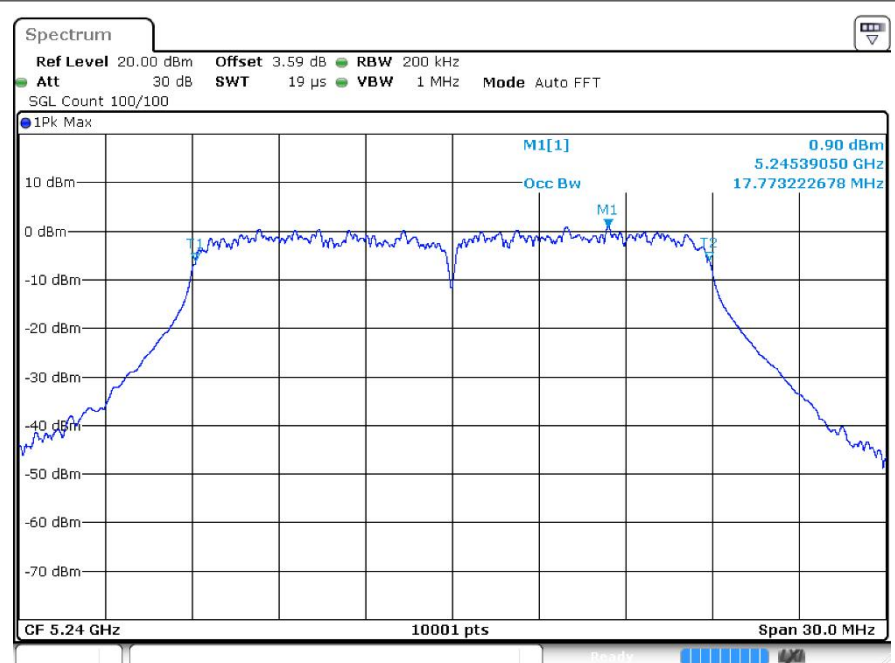
OBW n20 5180MHz Ant1



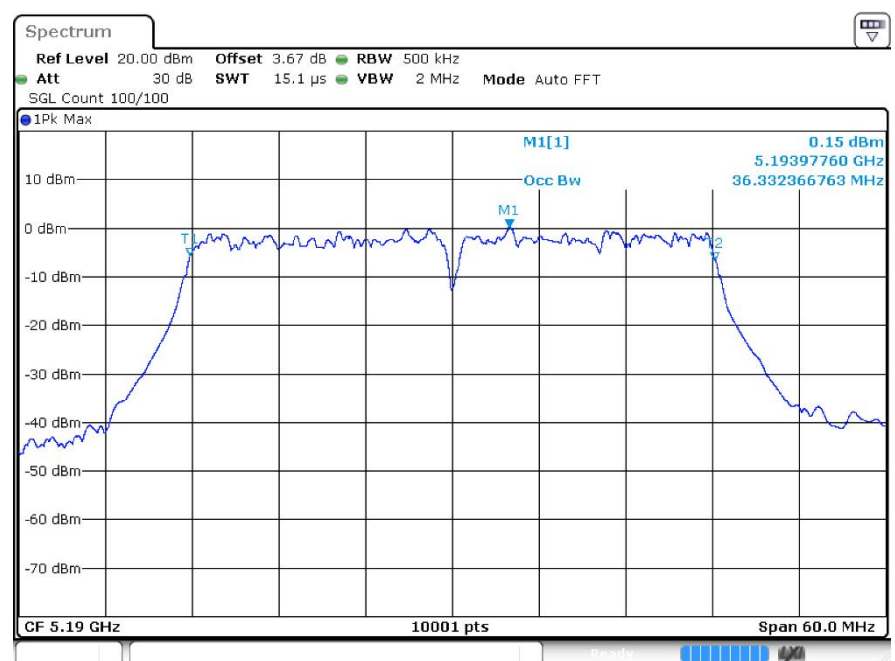
OBW n20 5200MHz Ant1



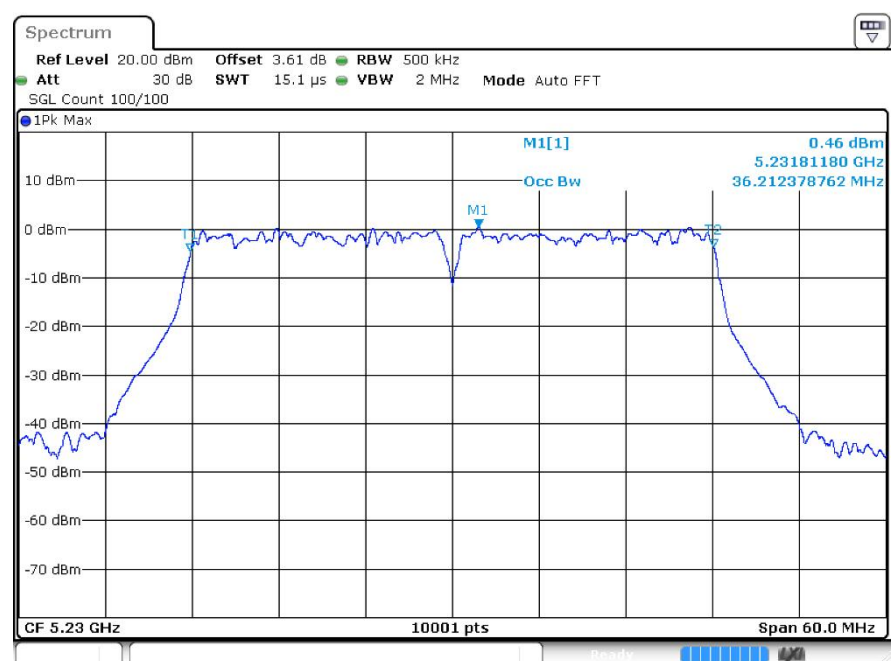
OBW n20 5240MHz Ant1



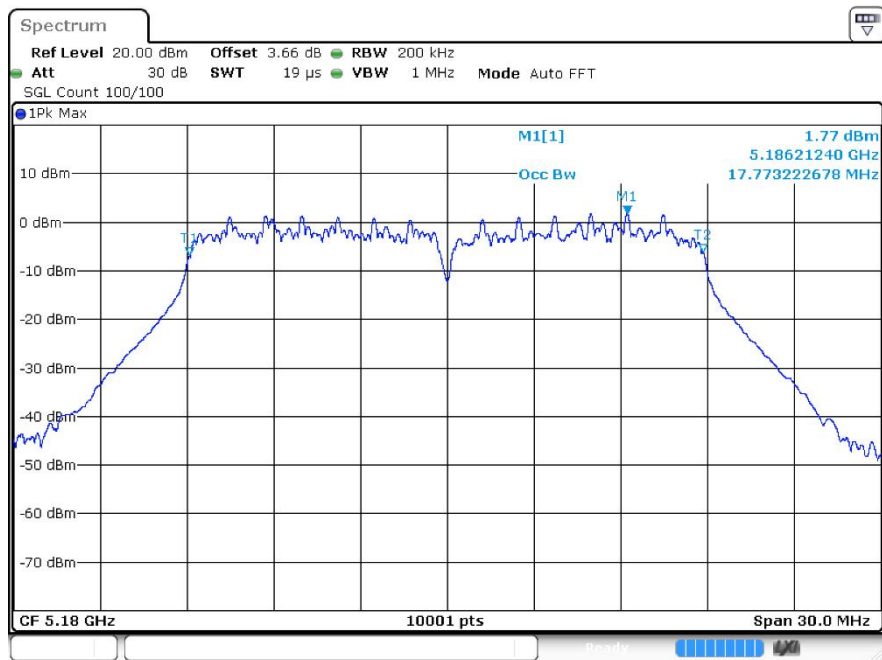
OBWn40 5190MHz Ant1



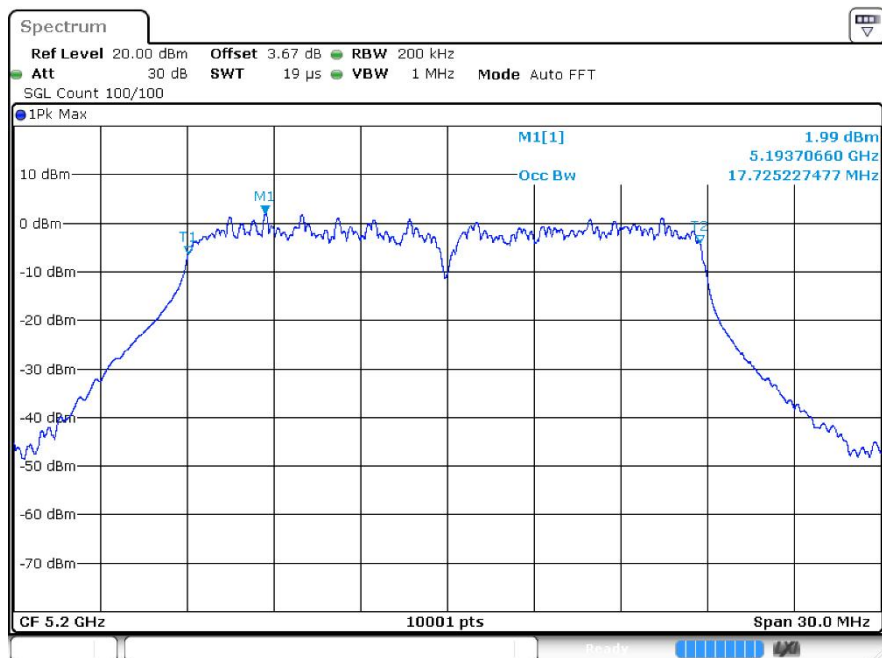
OBWn40 5230MHz Ant1



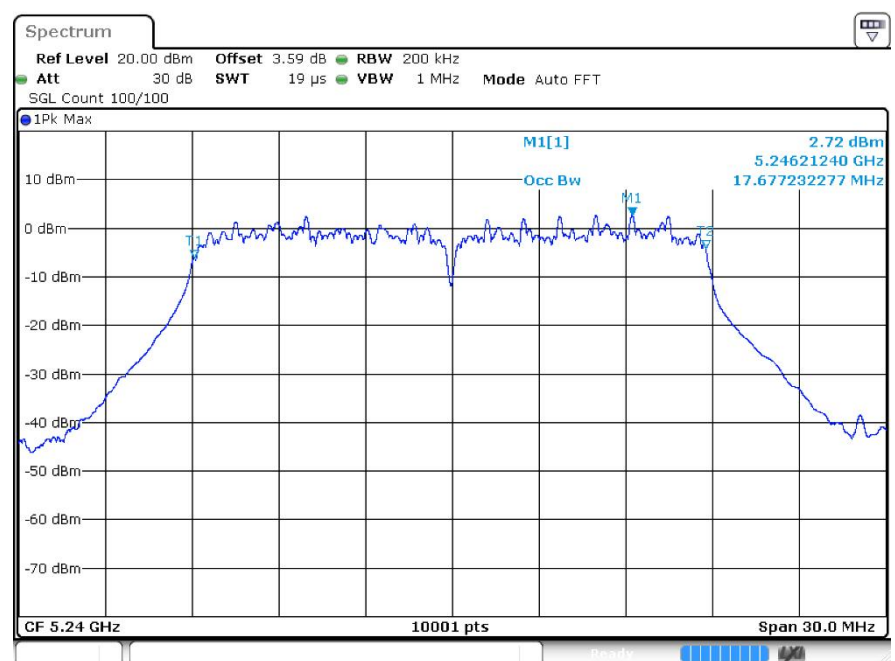
OBW ac20 5180MHz Ant1



OBW ac20 5200MHz Ant1



OBW ac20 5240MHz Ant1



OBWac40 5190MHz Ant1

