Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Tablet

Trade Mark:

SUAAT, UJJ, Oghrti, DEERTiME, ZIOVO, DMOAO, SKYEGG, fezawio, JUEDUR, Biegedy, FACETEL, JUSYEA, SEBBE, Oangcc

Test Model: S10

Environmental Conditions

Temperature:	24.6° 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

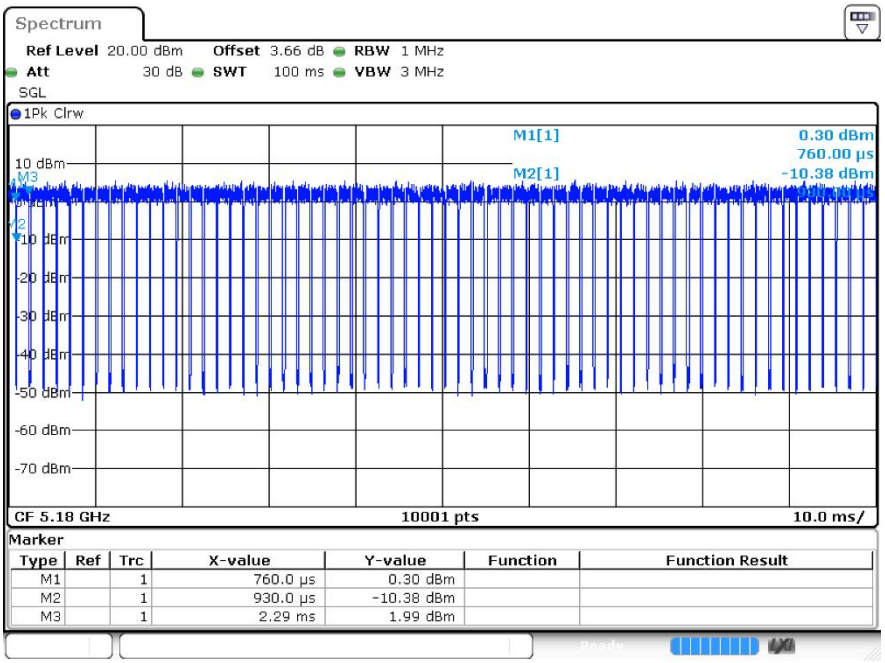
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	88.44	0.53	0.74
a	5200	Ant1	88.65	0.52	0.74
a	5240	Ant1	88.55	0.53	0.74
n20	5180	Ant1	86.95	0.61	0.87
n20	5200	Ant1	87.44	0.58	0.87
n20	5240	Ant1	87.35	0.59	0.87
n40	5190	Ant1	77.67	1.1	1.72
n40	5230	Ant1	77.35	1.12	1.75
ac20	5180	Ant1	87.27	0.59	0.86
ac20	5200	Ant1	87.12	0.6	0.86
ac20	5240	Ant1	87.16	0.6	0.87
ac40	5190	Ant1	76.96	1.14	1.69
ac40	5230	Ant1	76.99	1.14	1.72
ac80	5210	Ant1	63.79	1.95	3.57

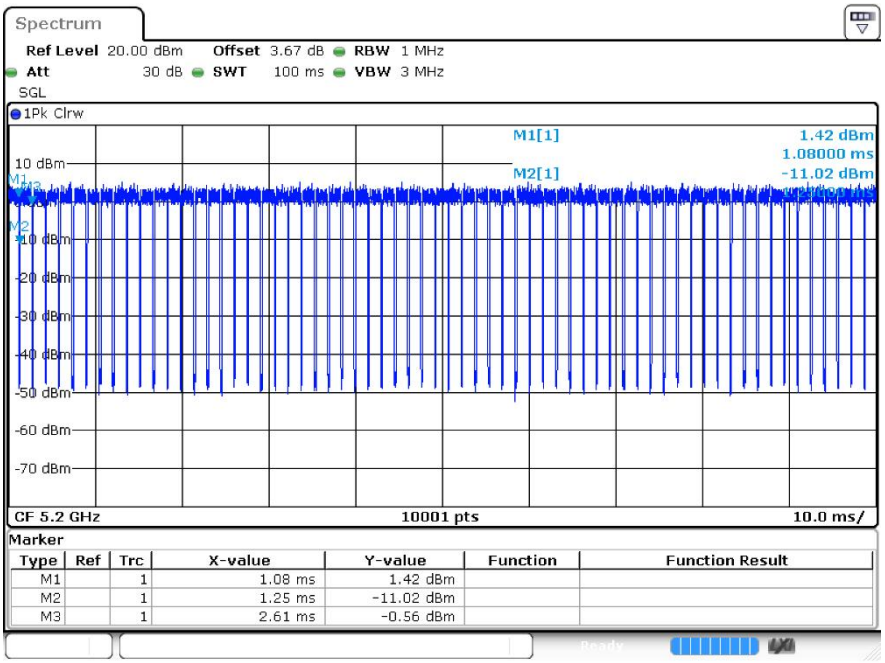
1.2 Test Graphs

Test Graphs

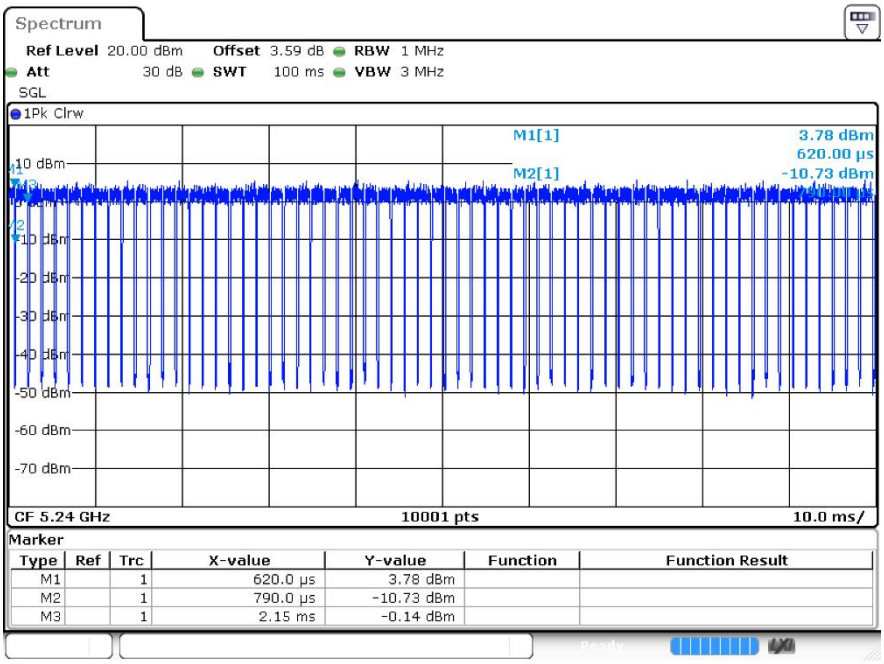
Duty Cyclea 5180MHz Ant1



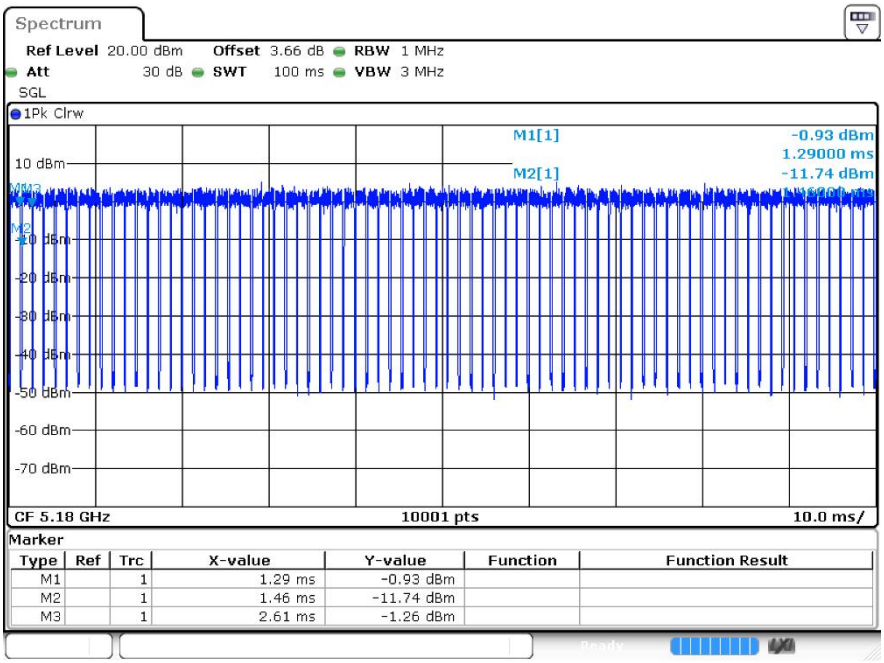
Duty Cycle a 5200MHz Ant1



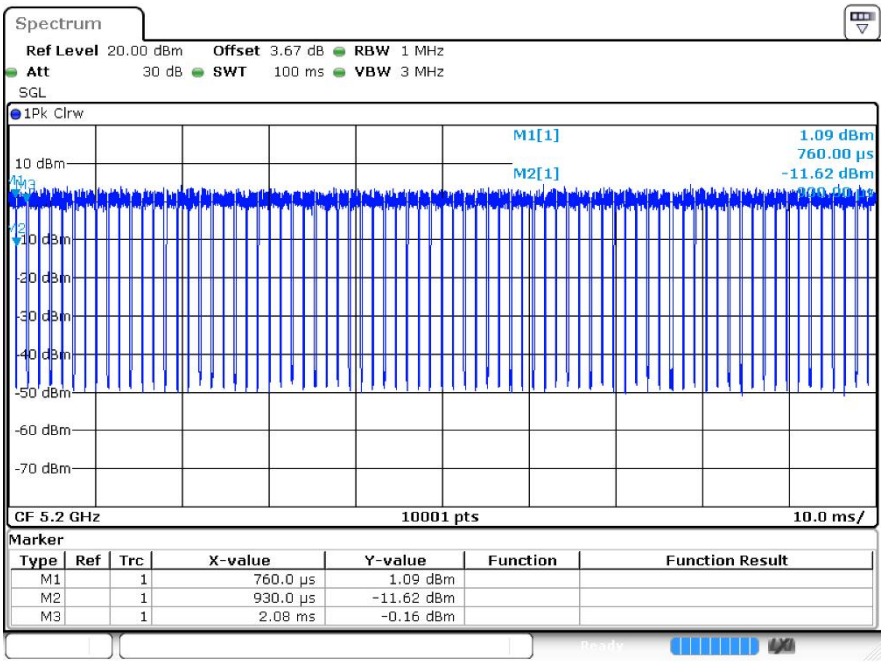
Duty Cyclea 5240MHz Ant1



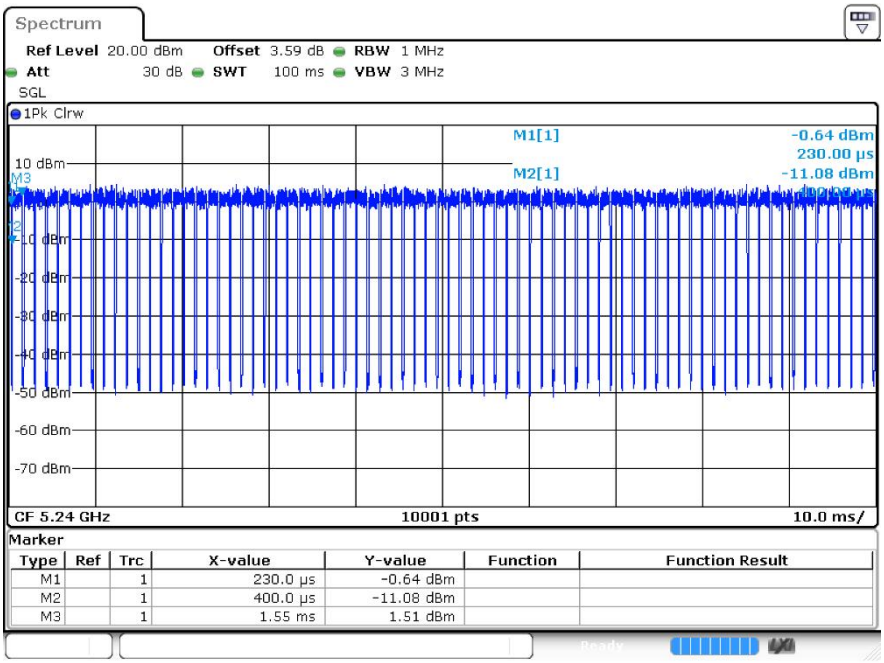
Duty Cycle n20 5180MHz Ant1



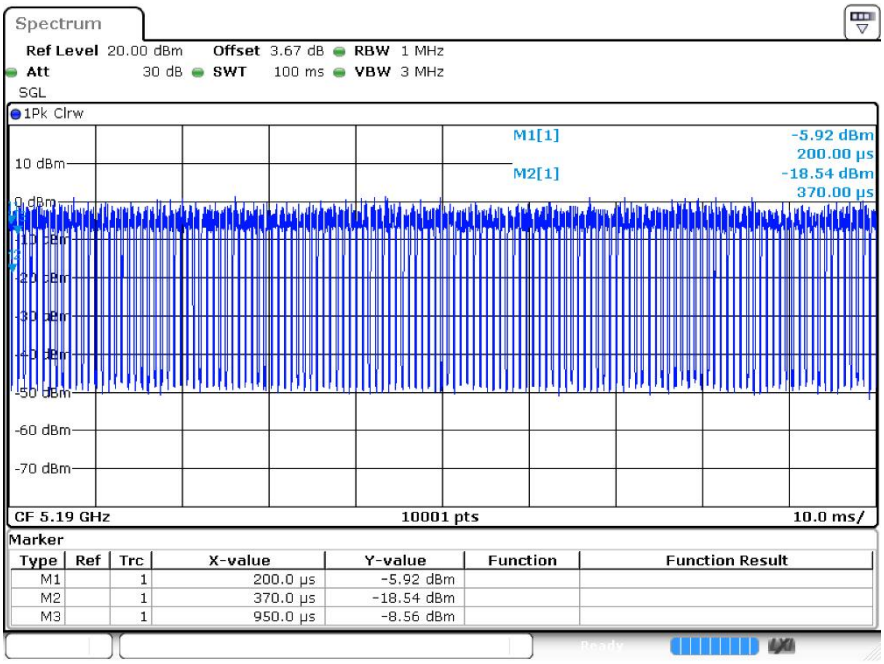
Duty Cycle n20 5200MHz Ant1



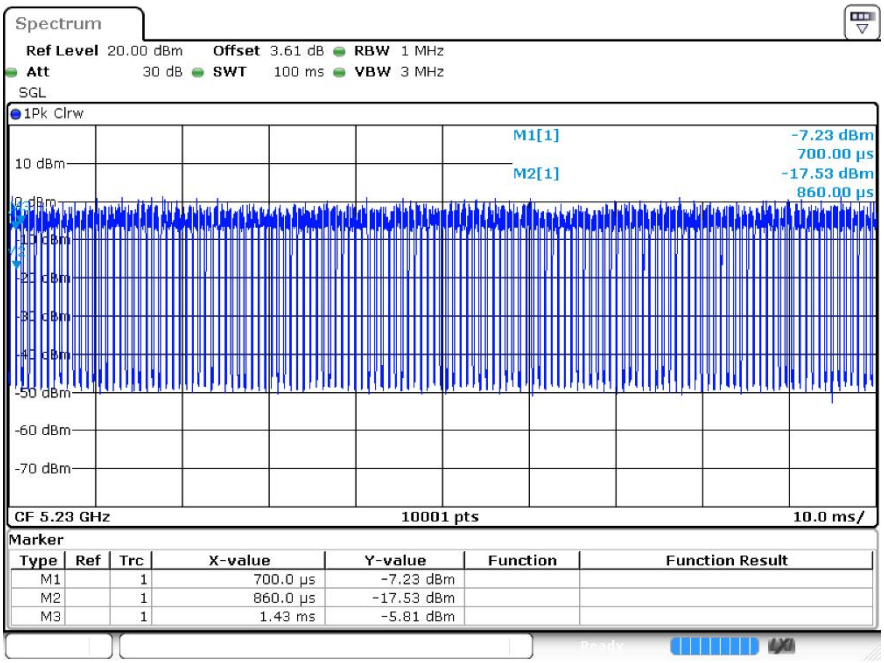
Duty Cycle n20 5240MHz Ant1



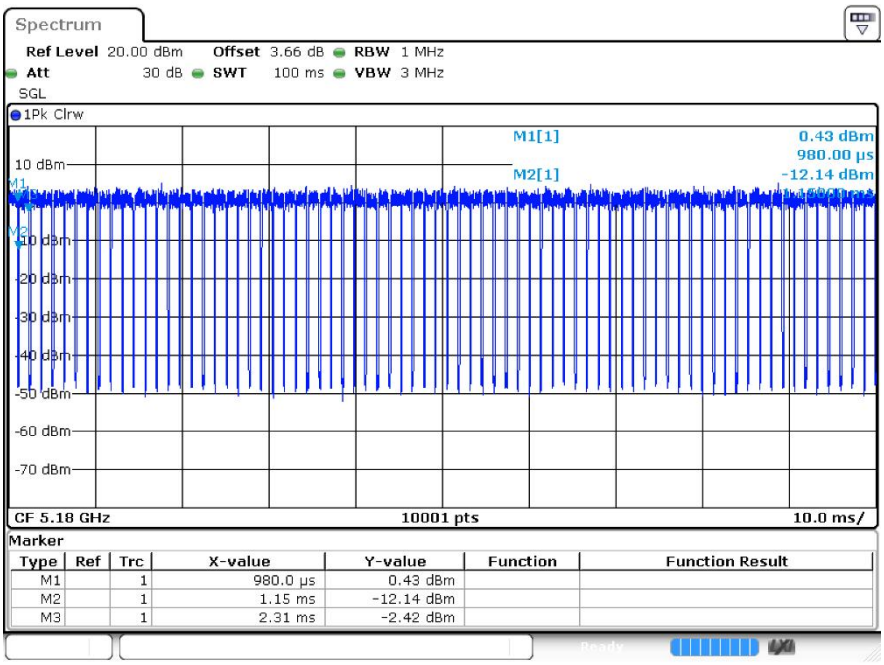
Duty Cyclen40 5190MHz Ant1



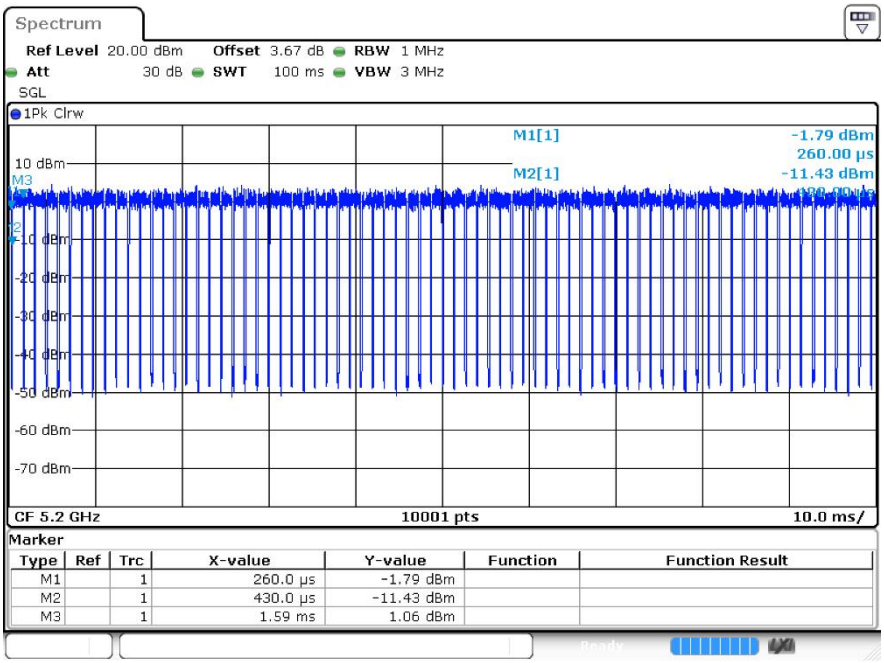
Duty Cyclen40 5230MHz Ant1



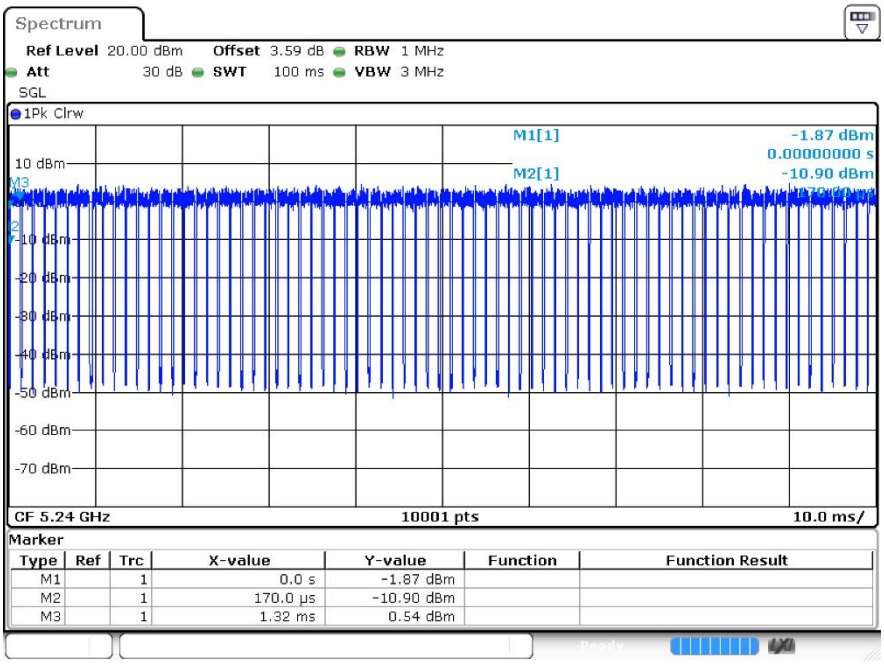
Duty Cycle ac20 5180MHz Ant1



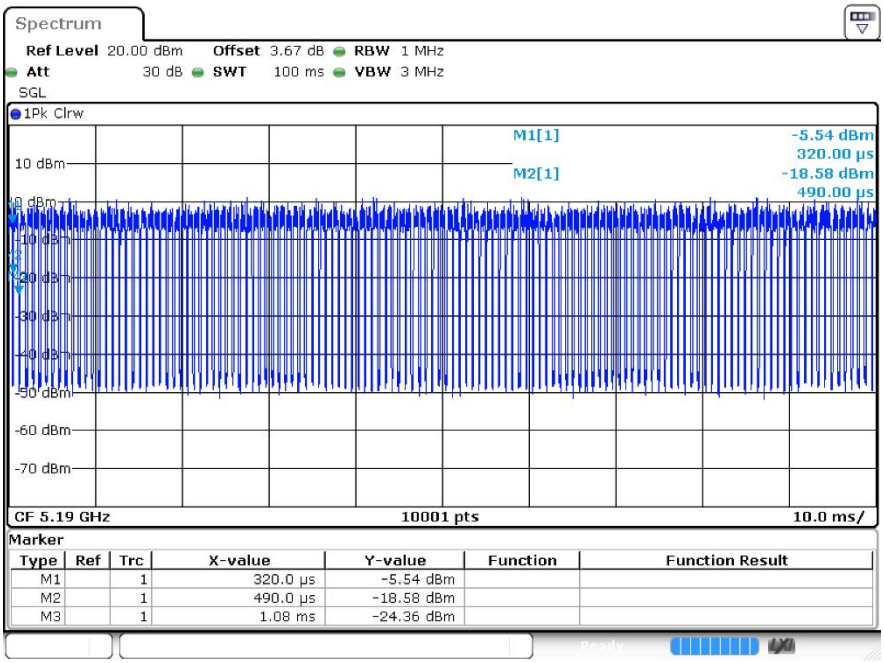
Duty Cycle ac20 5200MHz Ant1



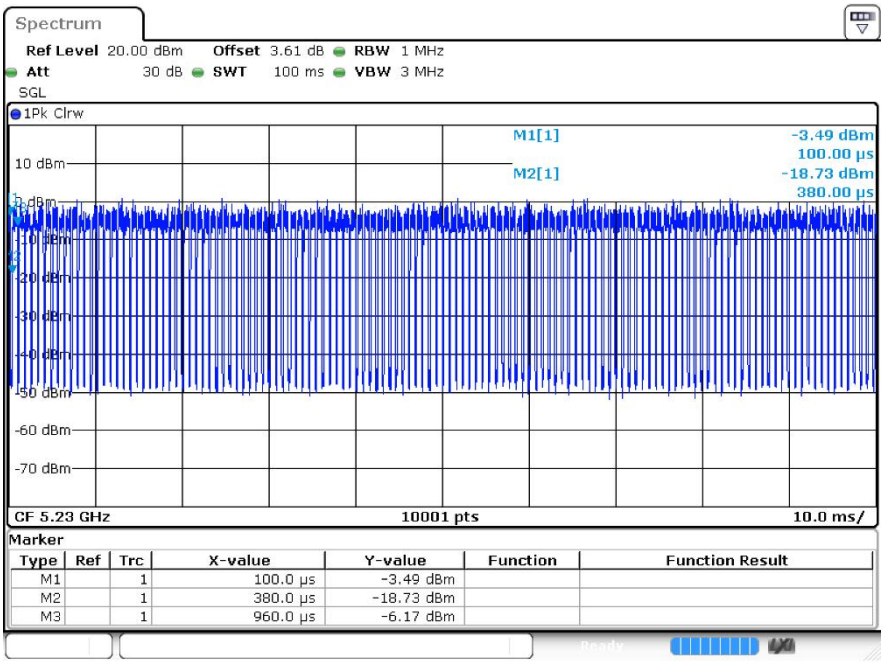
Duty Cycle ac20 5240MHz Ant1



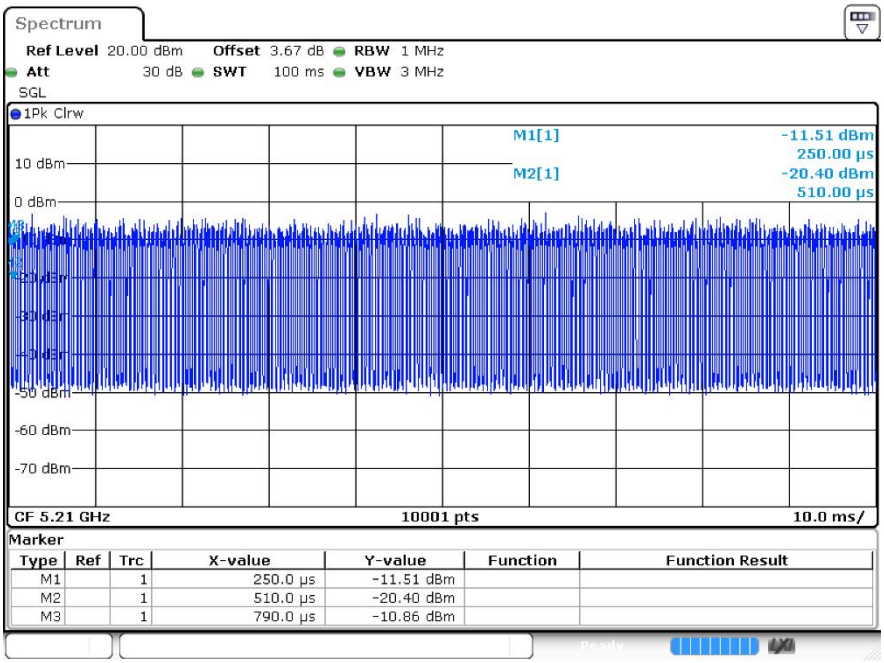
Duty Cycleac40 5190MHz Ant1



Duty Cycleac40 5230MHz Ant1



Duty Cycleac80 5210MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	12.92	24	Pass
a	5200	Ant1	12.27	24	Pass
a	5240	Ant1	12.56	24	Pass
n20	5180	Ant1	12.1	24	Pass
n20	5200	Ant1	11.55	24	Pass
n20	5240	Ant1	11.88	24	Pass
n40	5190	Ant1	12.25	24	Pass
n40	5230	Ant1	12.5	24	Pass
ac20	5180	Ant1	12.12	24	Pass
ac20	5200	Ant1	11.55	24	Pass
ac20	5240	Ant1	11.89	24	Pass
ac40	5190	Ant1	12.16	24	Pass
ac40	5230	Ant1	12.04	24	Pass
ac80	5210	Ant1	11.53	24	Pass

Note:

The duty factor has been compensated into the result.

3 -26dB Bandwidth

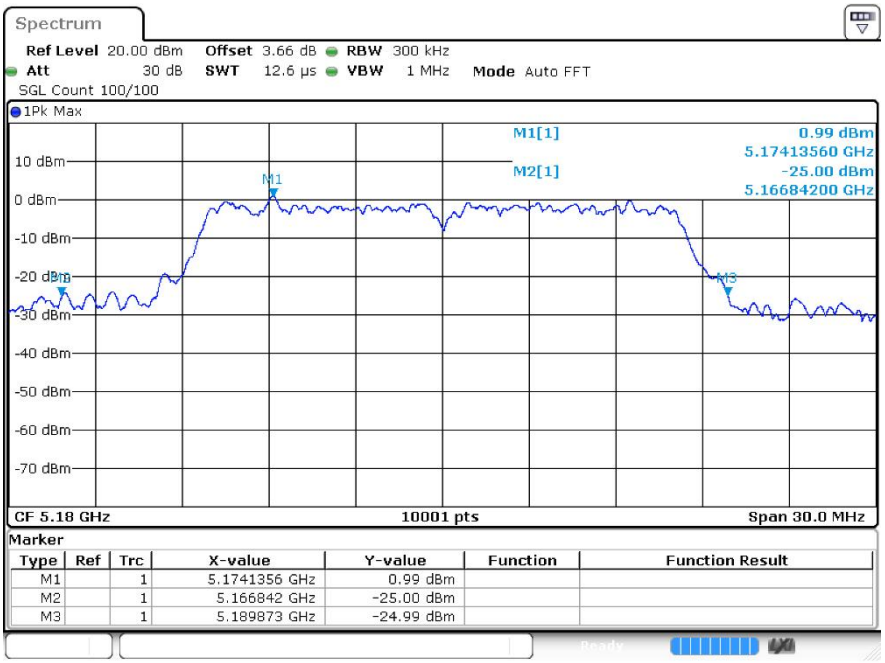
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-26 dB Bandwidth (MHz)	Limit -26 dB Bandwidth (MHz)	Verdict
a	5180	Ant1	23.031	0.5	Pass
a	5200	Ant1	23.811	0.5	Pass
a	5240	Ant1	22.026	0.5	Pass
n20	5180	Ant1	19.935	0.5	Pass
n20	5200	Ant1	20.07	0.5	Pass
n20	5240	Ant1	23.958	0.5	Pass
n40	5190	Ant1	39.906	0.5	Pass
n40	5230	Ant1	39.222	0.5	Pass
ac20	5180	Ant1	19.737	0.5	Pass
ac20	5200	Ant1	19.71	0.5	Pass
ac20	5240	Ant1	19.815	0.5	Pass
ac40	5190	Ant1	39.462	0.5	Pass
ac40	5230	Ant1	40.8	0.5	Pass
ac80	5210	Ant1	78.504	0.5	Pass

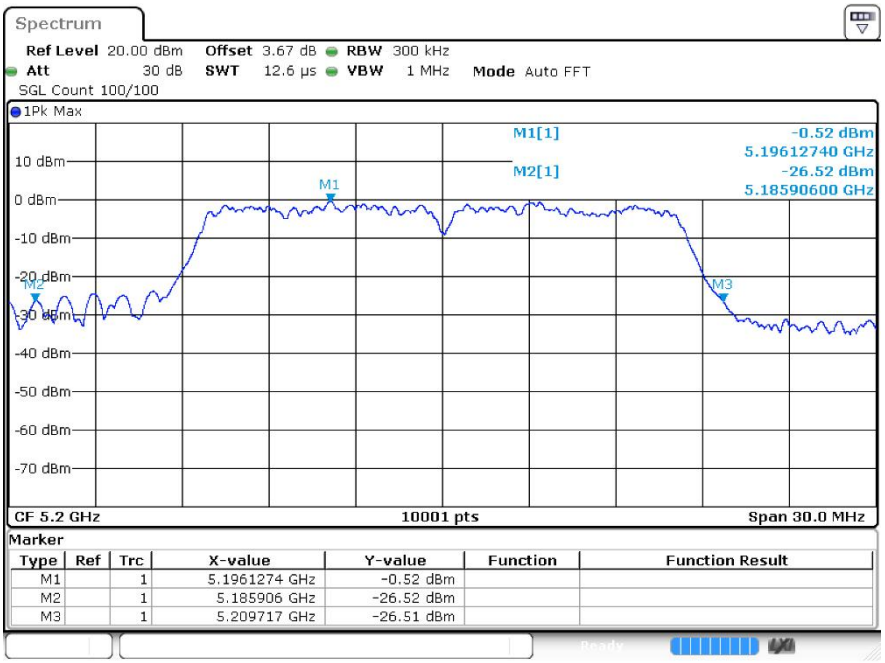
3.2 Test Graphs

Test Graphs

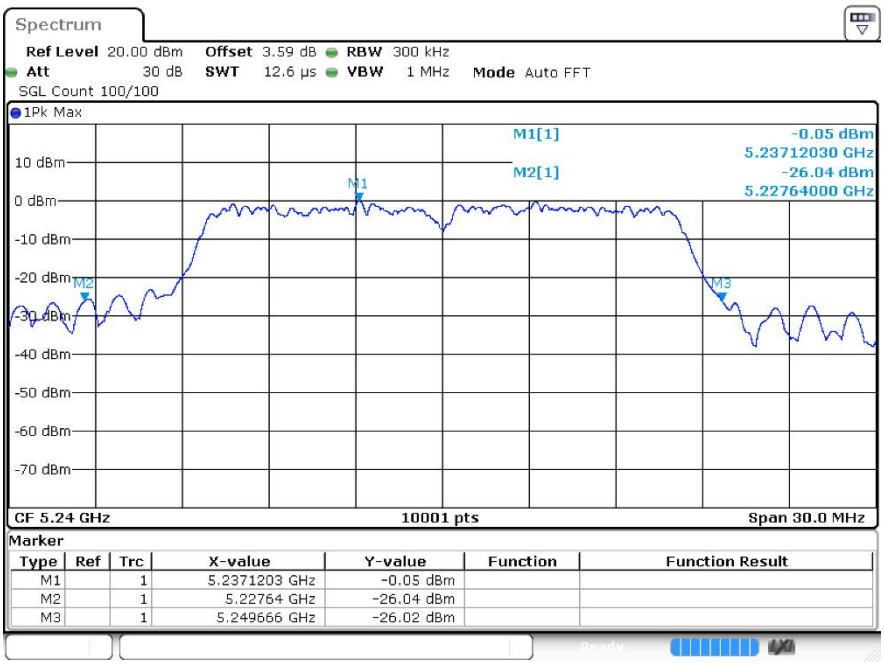
-26dB Bandwidtha 5180MHz Ant1



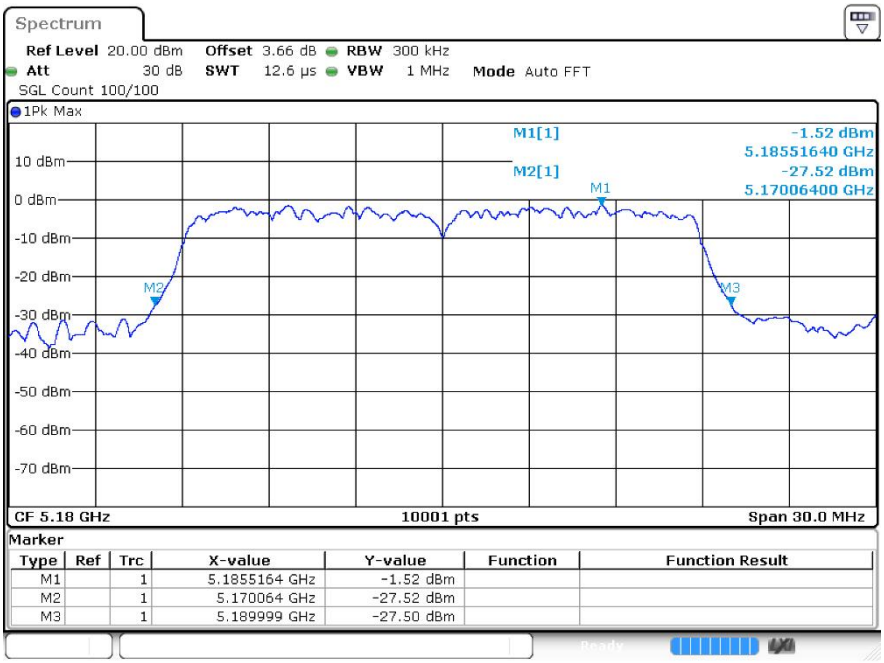
-26dB Bandwidtha 5200MHz Ant1



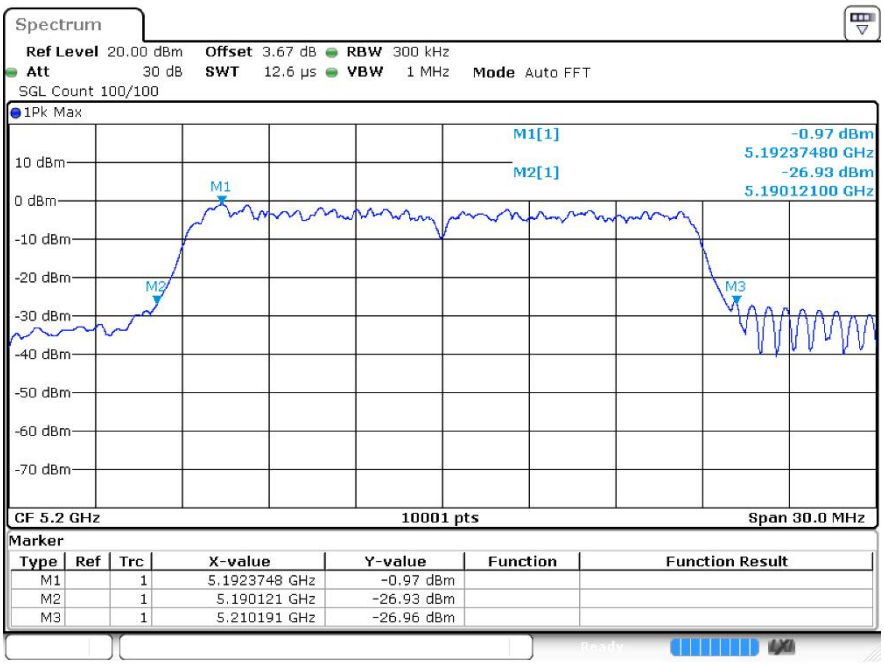
-26dB Bandwidtha 5240MHz Ant1



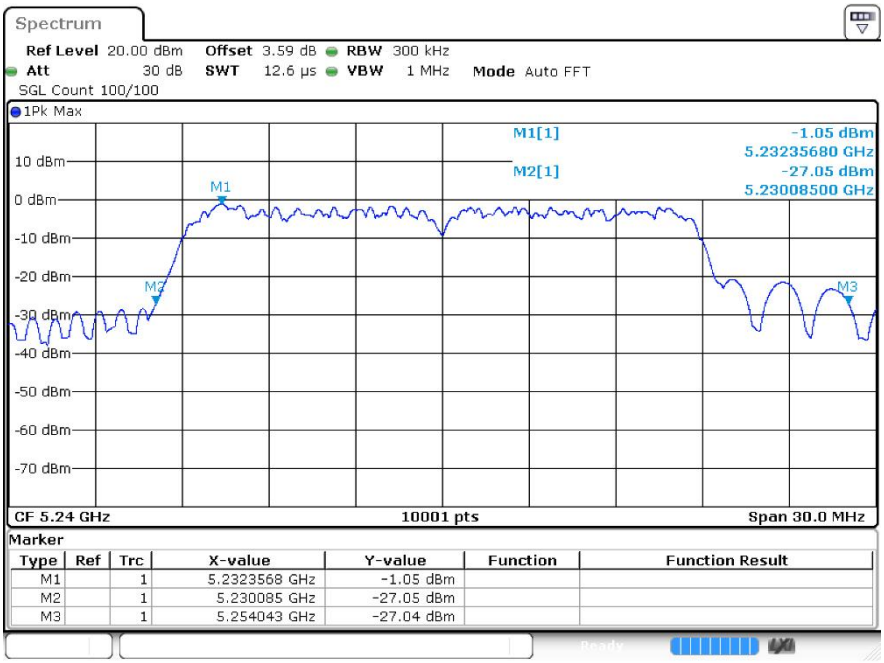
-26dB Bandwidth n20 5180MHz Ant1



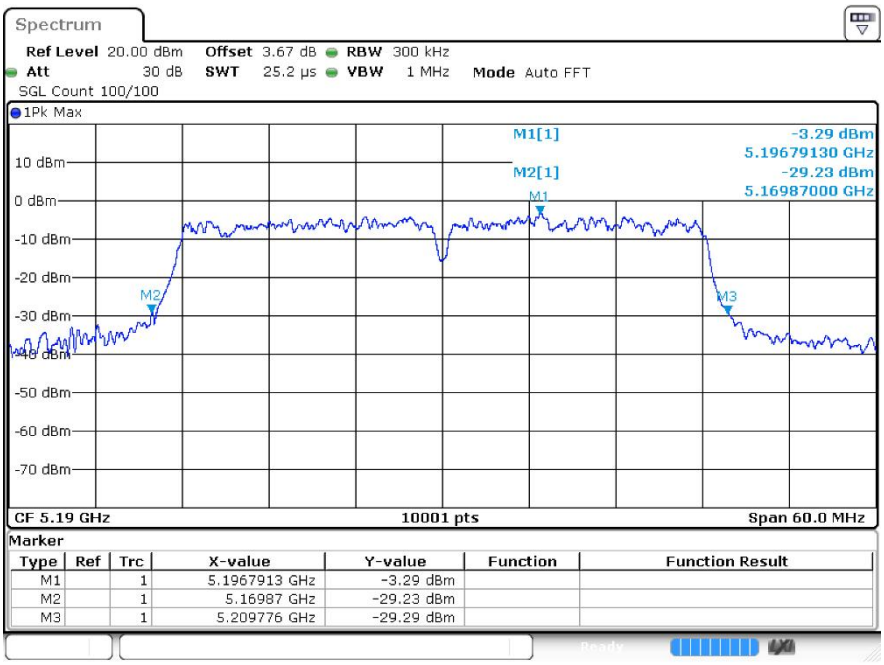
-26dB Bandwidth n20 5200MHz Ant1



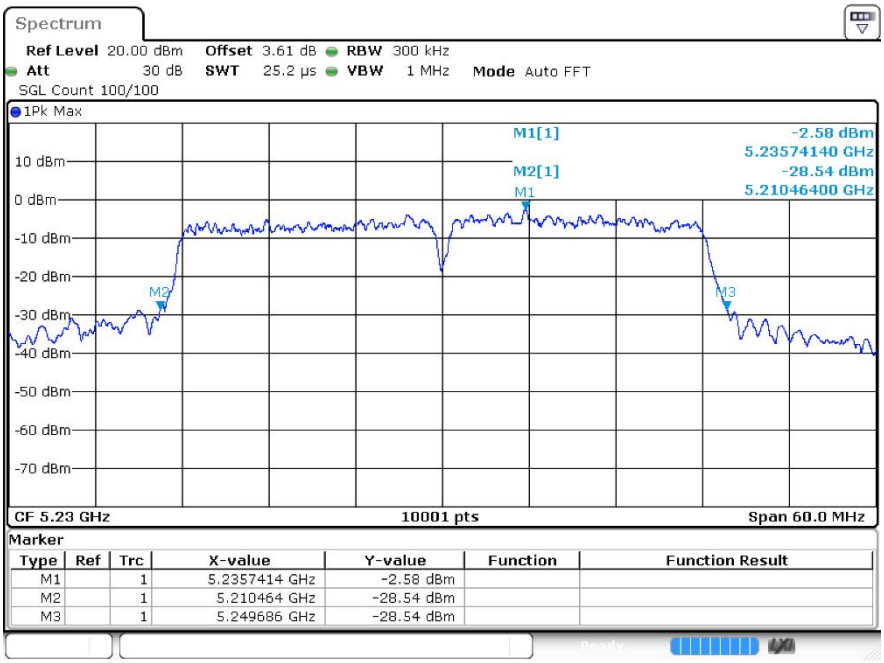
-26dB Bandwidth n20 5240MHz Ant1



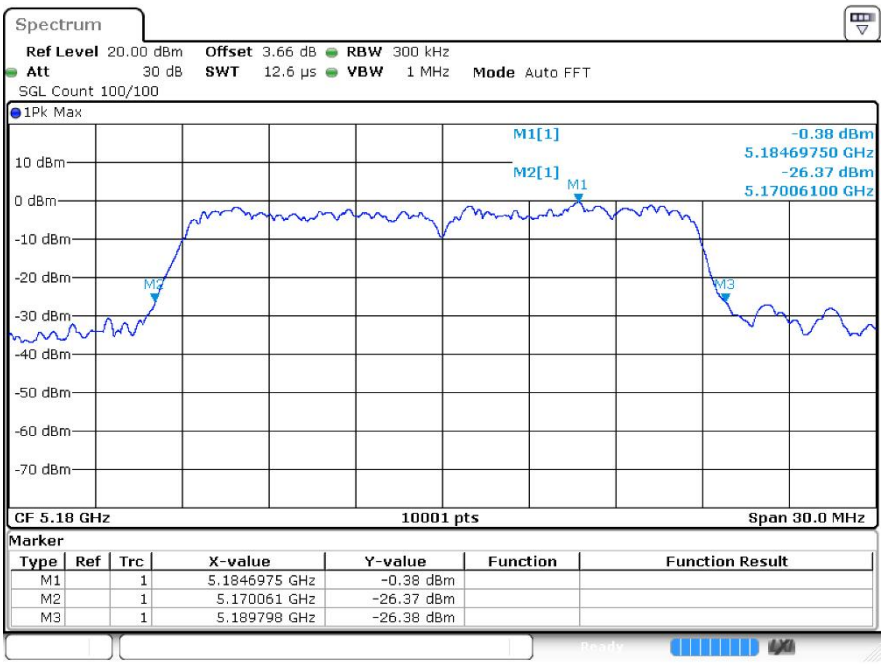
-26dB Bandwidthn40 5190MHz Ant1



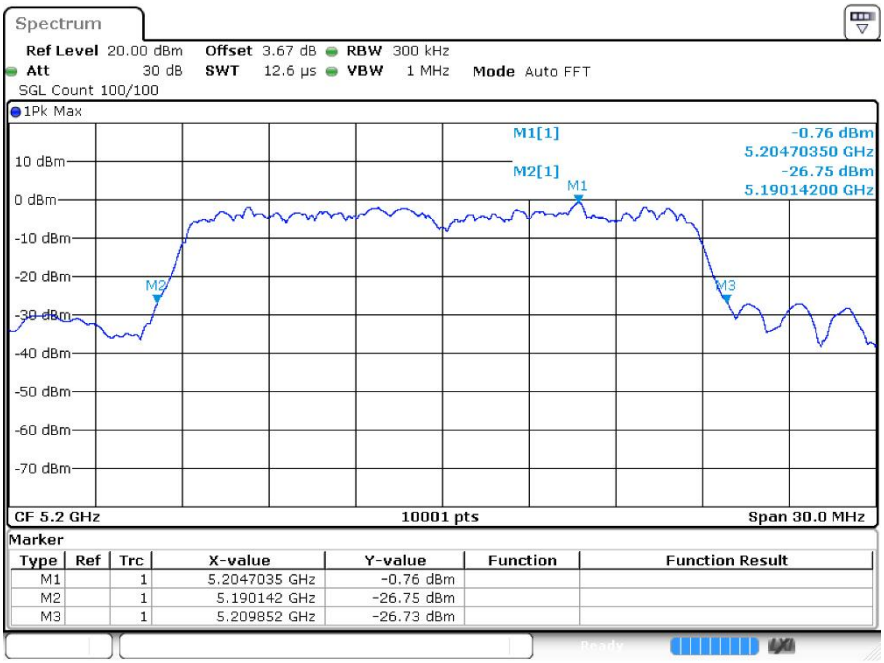
-26dB Bandwidthn40 5230MHz Ant1



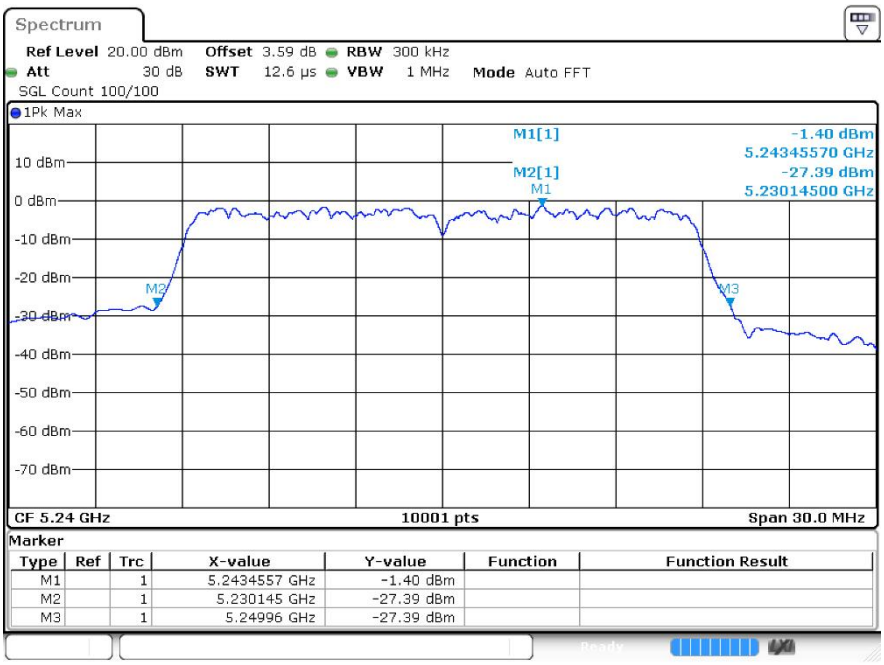
-26dB Bandwidth ac20 5180MHz Ant1



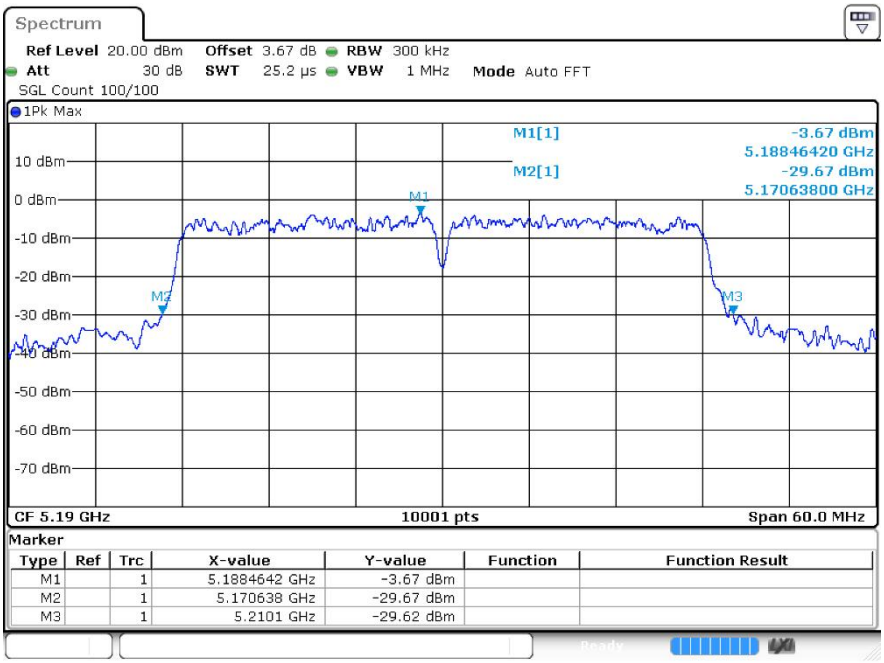
-26dB Bandwidth ac20 5200MHz Ant1



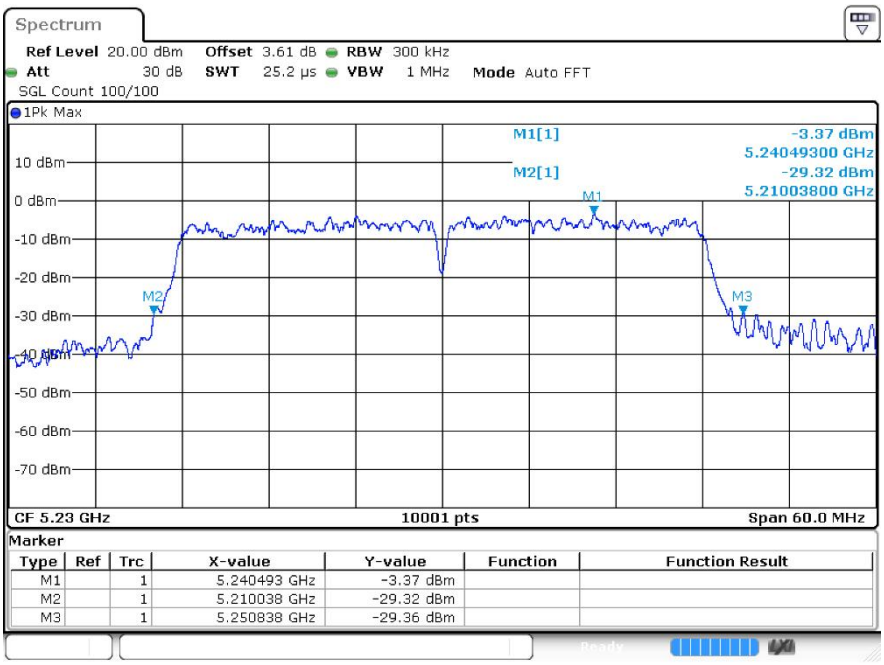
-26dB Bandwidth ac20 5240MHz Ant1



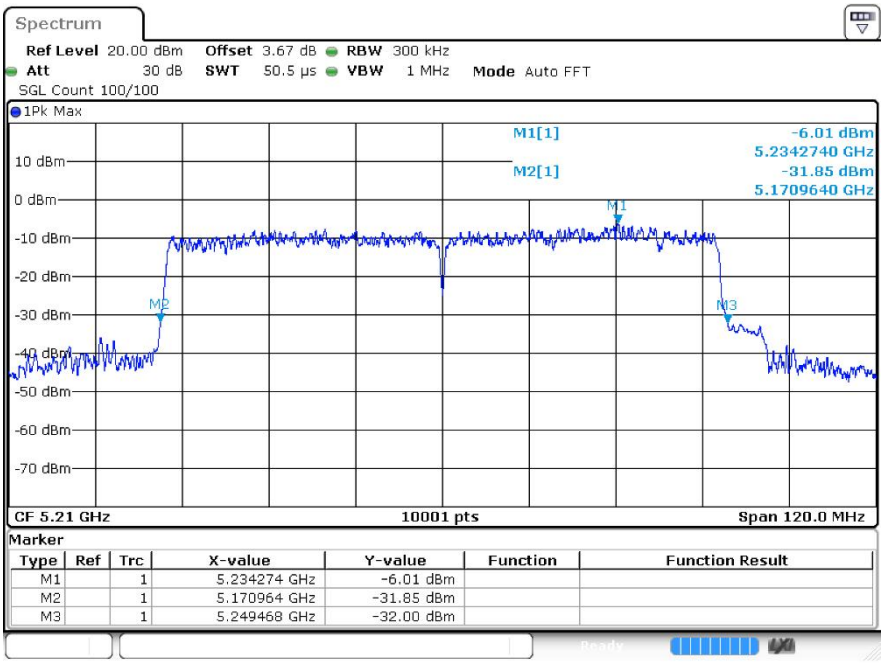
-26dB Bandwidthac40 5190MHz Ant1



-26dB Bandwidthac40 5230MHz Ant1



-26dB Bandwidthac80 5210MHz Ant1



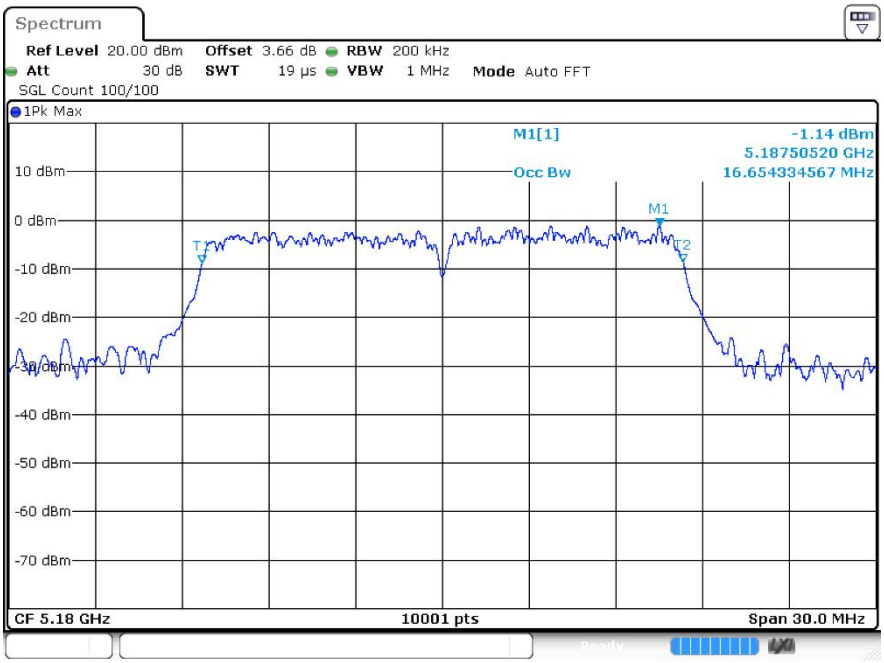
4 Occupied Channel Bandwidth

4.1 Test Result

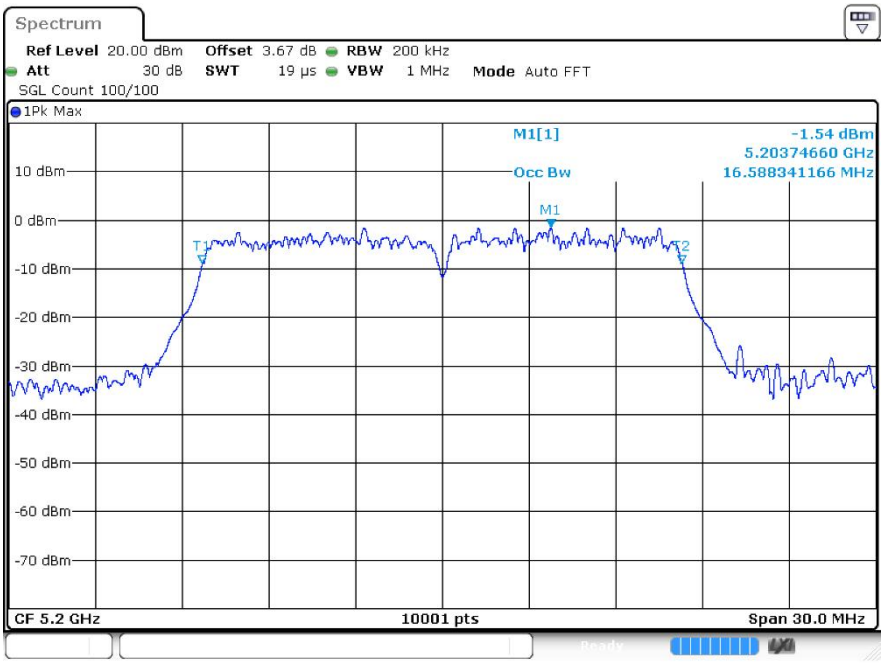
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.654
a	5200	Ant1	16.588
a	5240	Ant1	16.486
n20	5180	Ant1	17.674
n20	5200	Ant1	17.596
n20	5240	Ant1	17.593
n40	5190	Ant1	36.014
n40	5230	Ant1	36.218
ac20	5180	Ant1	17.68
ac20	5200	Ant1	17.548
ac20	5240	Ant1	17.506
ac40	5190	Ant1	36.212
ac40	5230	Ant1	36.134
ac80	5210	Ant1	75.676

4.2 Test Graphs

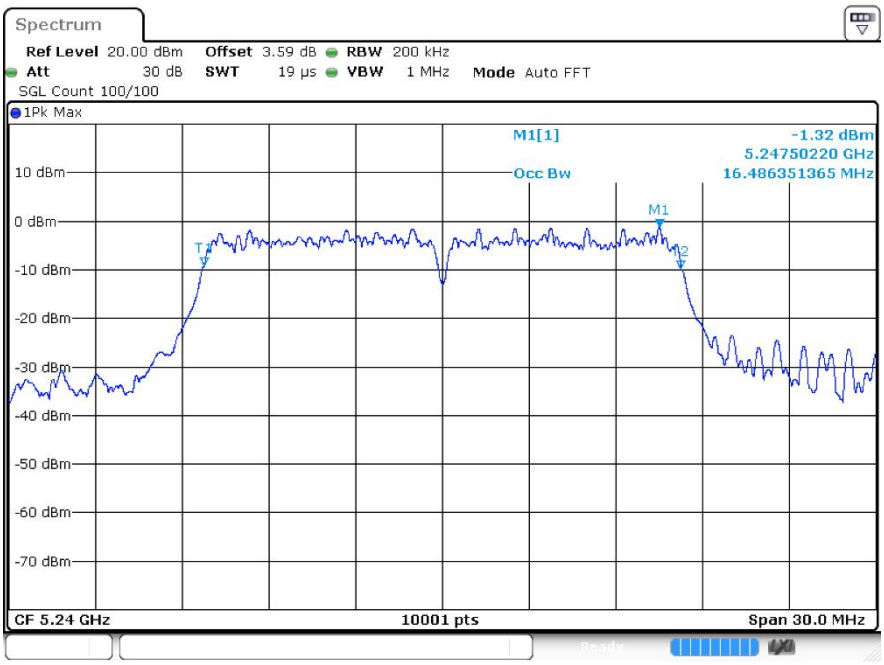
Test Graphs
OBWa 5180MHz Ant1



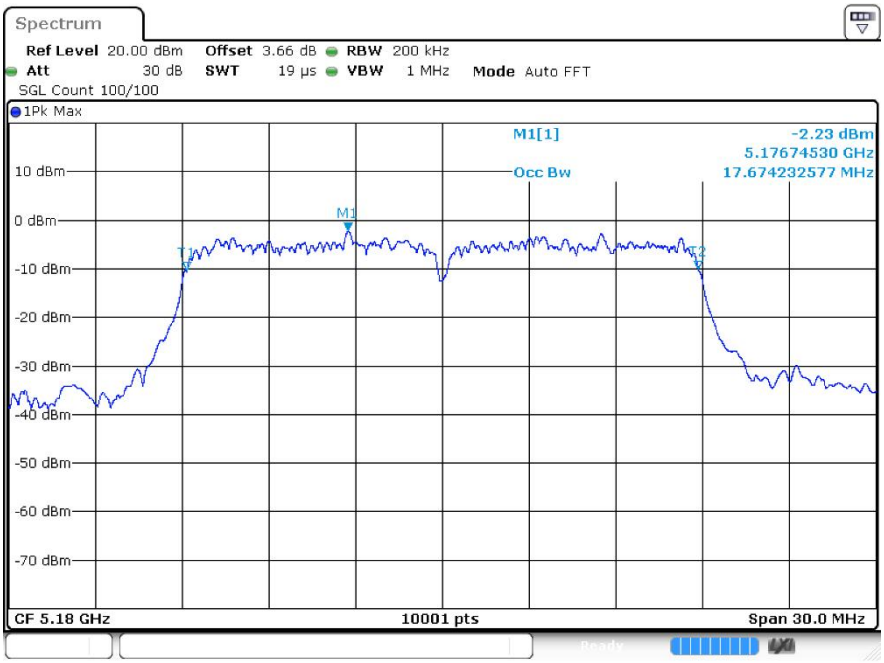
OBWa 5200MHz Ant1



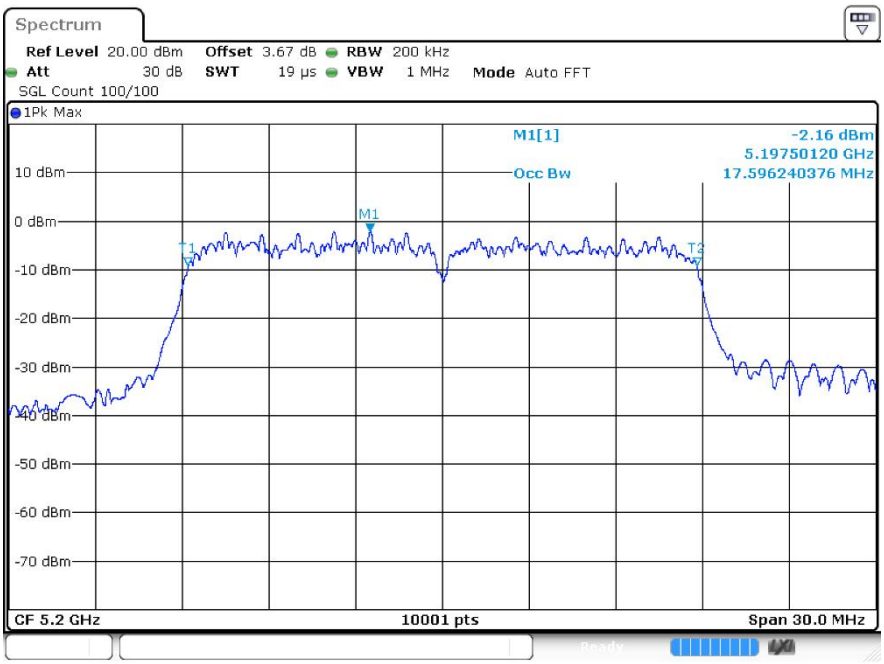
OBWa 5240MHz Ant1



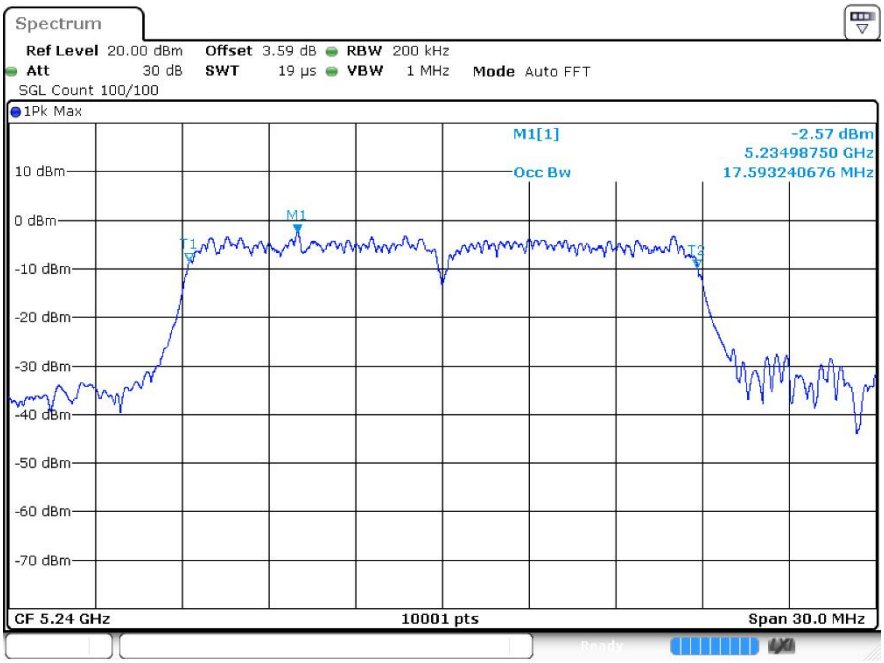
OBW n20 5180MHz Ant1



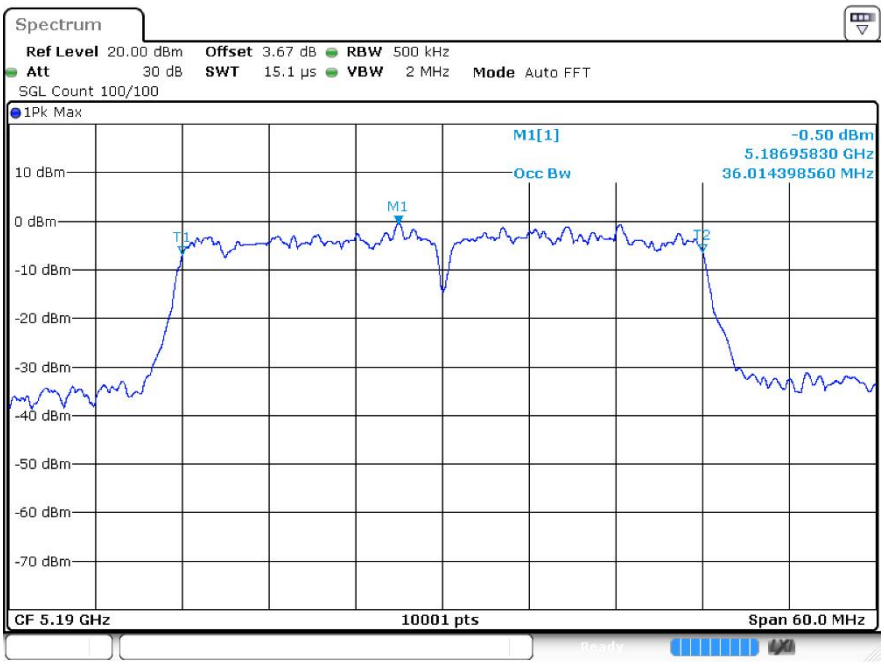
OBW n20 5200MHz Ant1



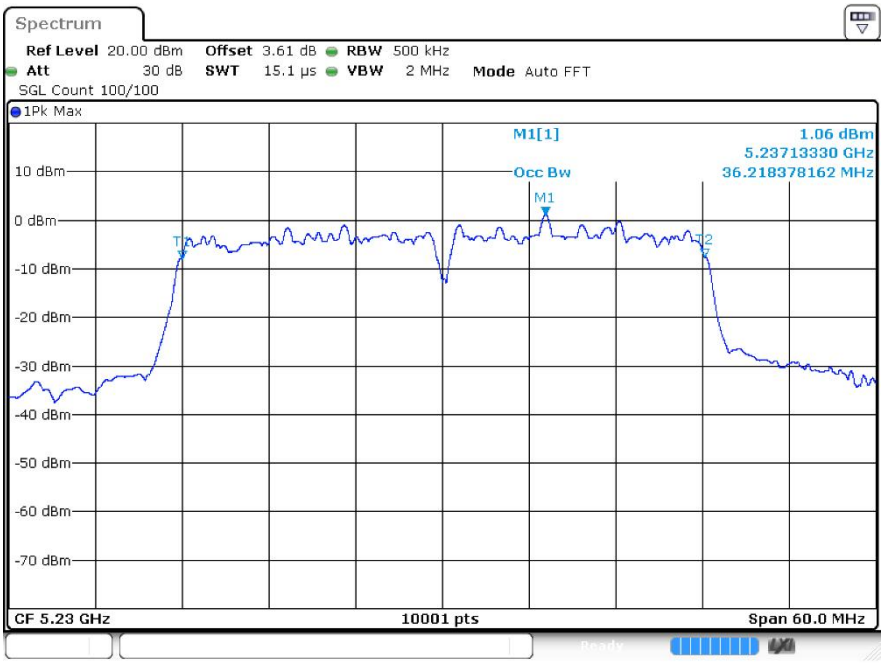
OBW n20 5240MHz Ant1



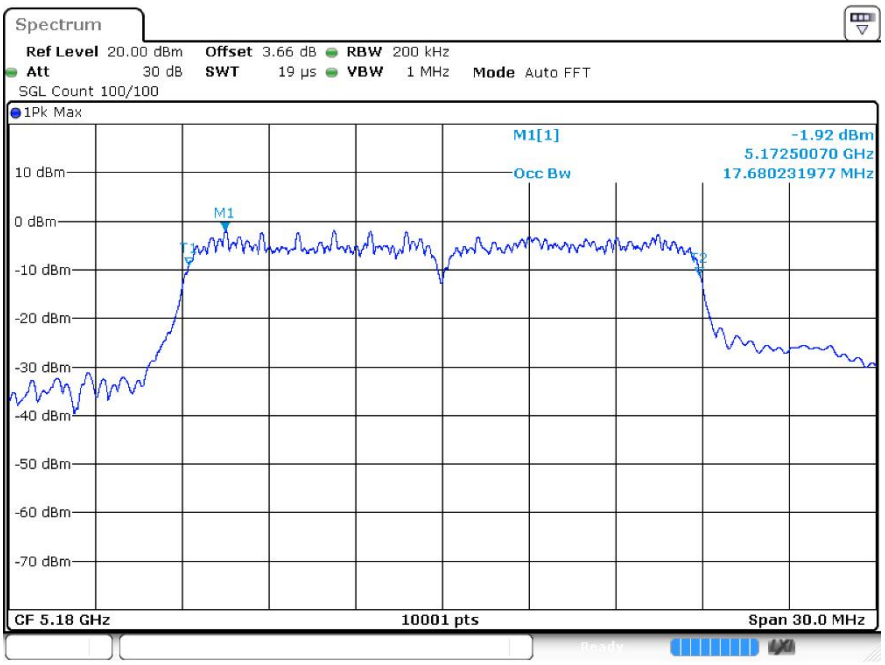
OBWn40 5190MHz Ant1



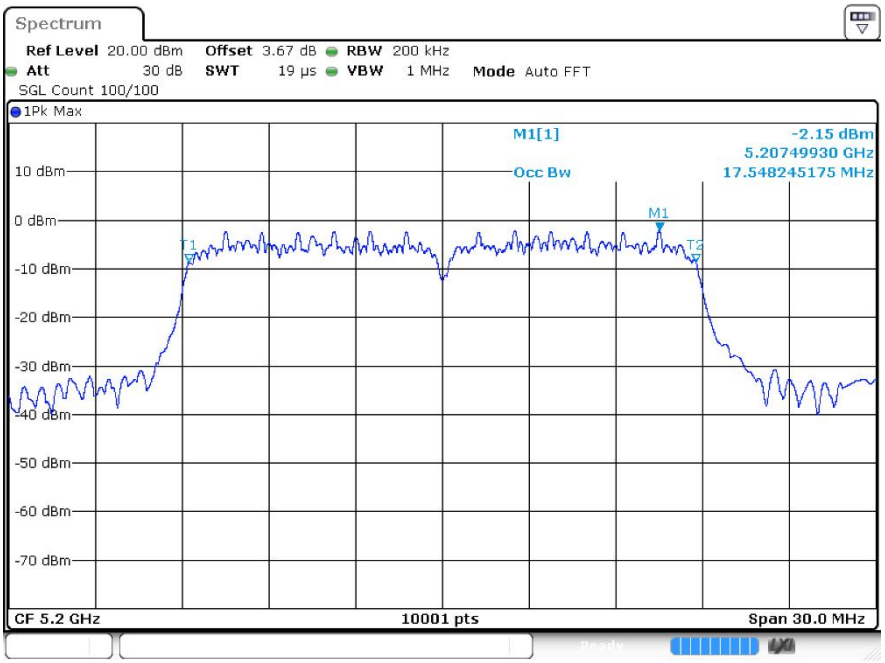
OBWn40 5230MHz Ant1



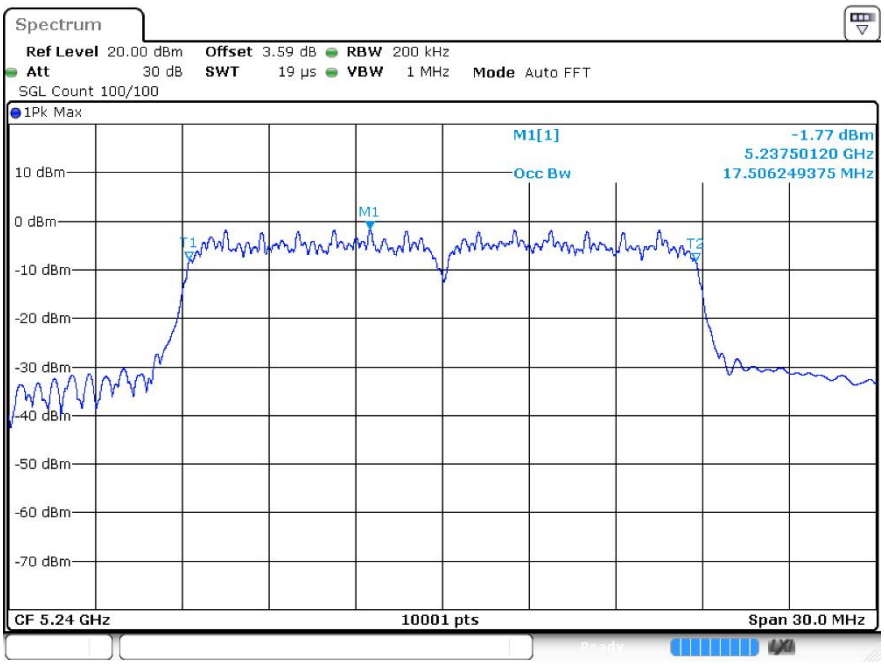
OBW ac20 5180MHz Ant1



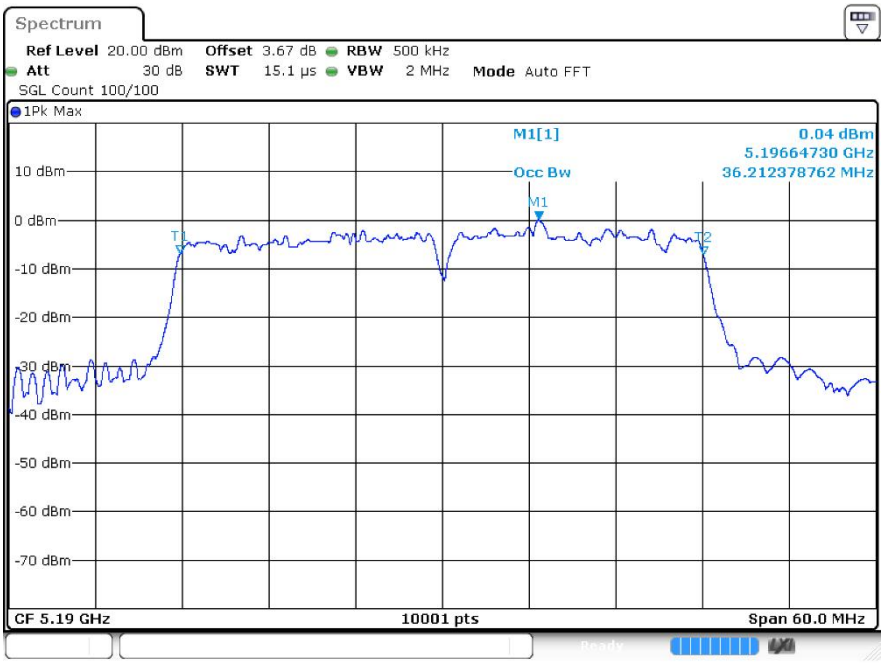
OBW ac20 5200MHz Ant1



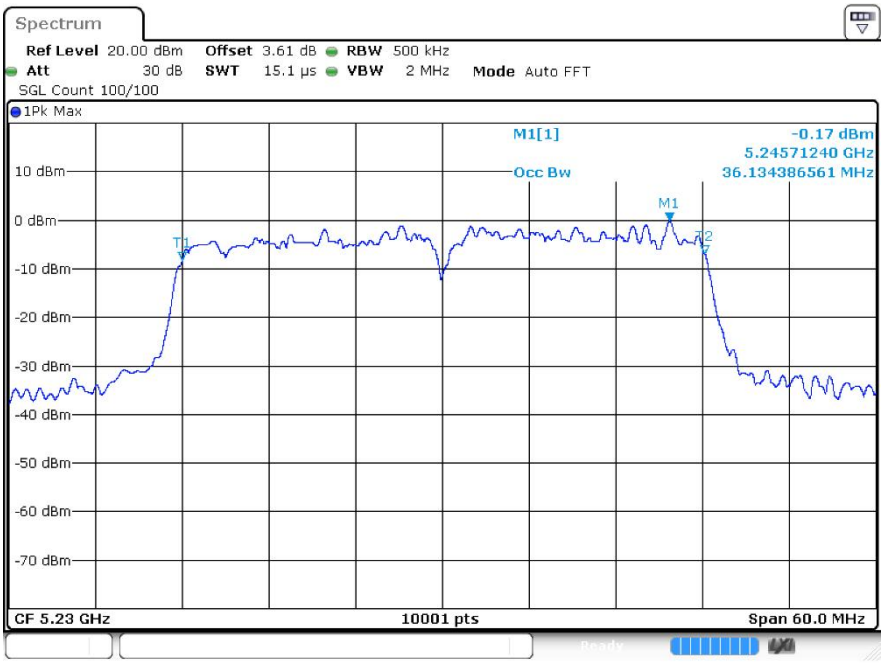
OBW ac20 5240MHz Ant1



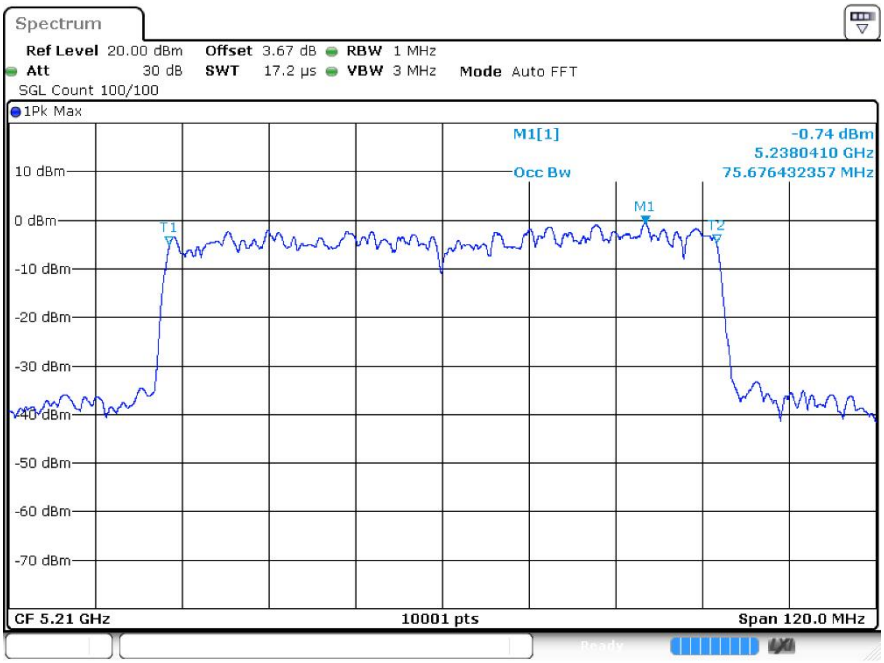
OBWac40 5190MHz Ant1



OBWac40 5230MHz Ant1



OBWac80 5210MHz Ant1



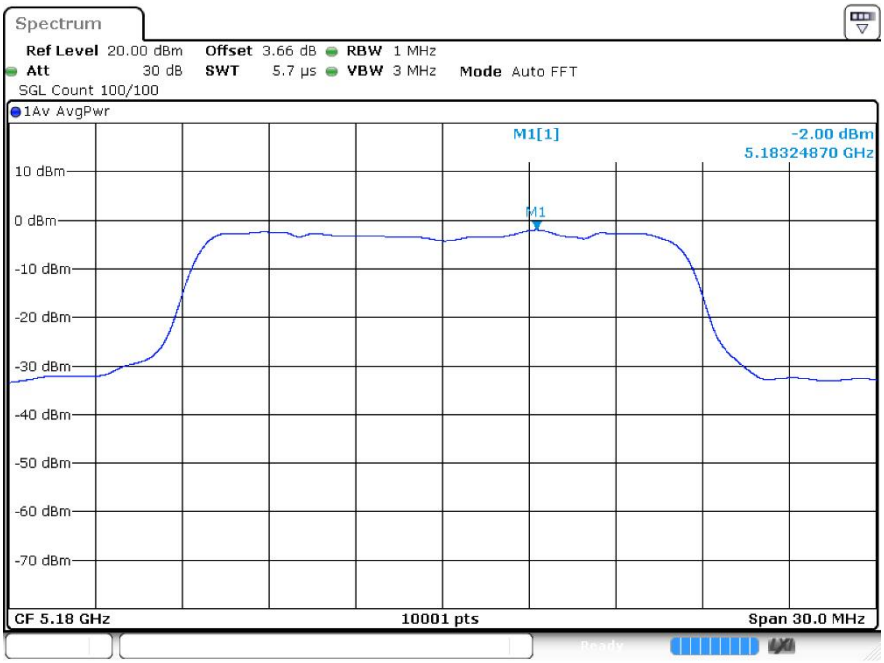
5 Maximum Power Spectral Density Level

5.1 Test Result

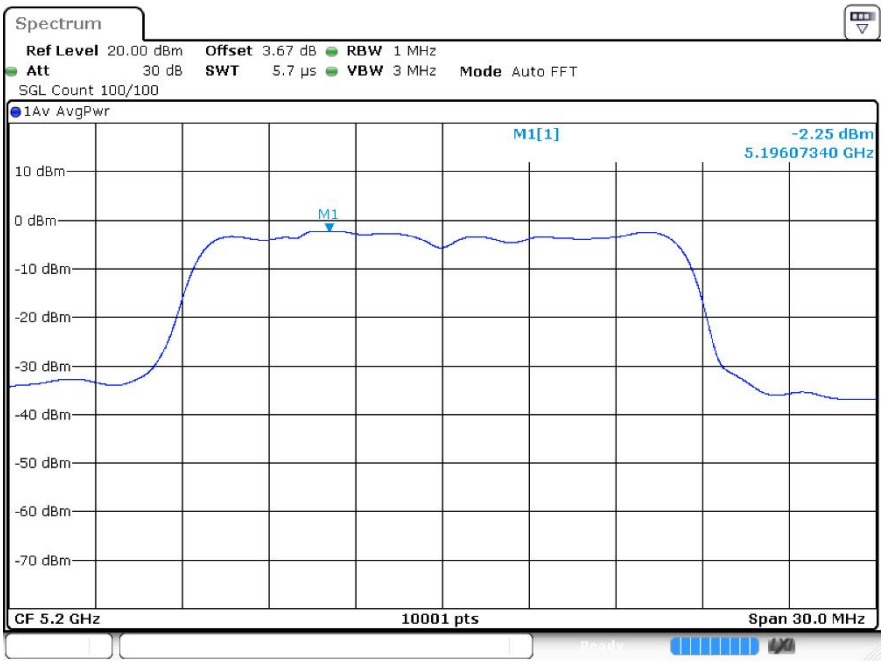
Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	-2	0.53	-1.47	11	Pass
a	5200	Ant1	-2.25	0.52	-1.73	11	Pass
a	5240	Ant1	-2.06	0.53	-1.53	11	Pass
n20	5180	Ant1	-2.75	0.61	-2.14	11	Pass
n20	5200	Ant1	-3.83	0.58	-3.25	11	Pass
n20	5240	Ant1	-3.57	0.59	-2.98	11	Pass
n40	5190	Ant1	-5.92	1.1	-4.82	11	Pass
n40	5230	Ant1	-6.34	1.12	-5.22	11	Pass
ac20	5180	Ant1	-3.42	0.59	-2.83	11	Pass
ac20	5200	Ant1	-3.59	0.6	-2.99	11	Pass
ac20	5240	Ant1	-3.21	0.6	-2.61	11	Pass
ac40	5190	Ant1	-6.3	1.14	-5.16	11	Pass
ac40	5230	Ant1	-6.64	1.14	-5.5	11	Pass
ac80	5210	Ant1	-9.5	1.95	-7.55	11	Pass

5.2 Test Graphs

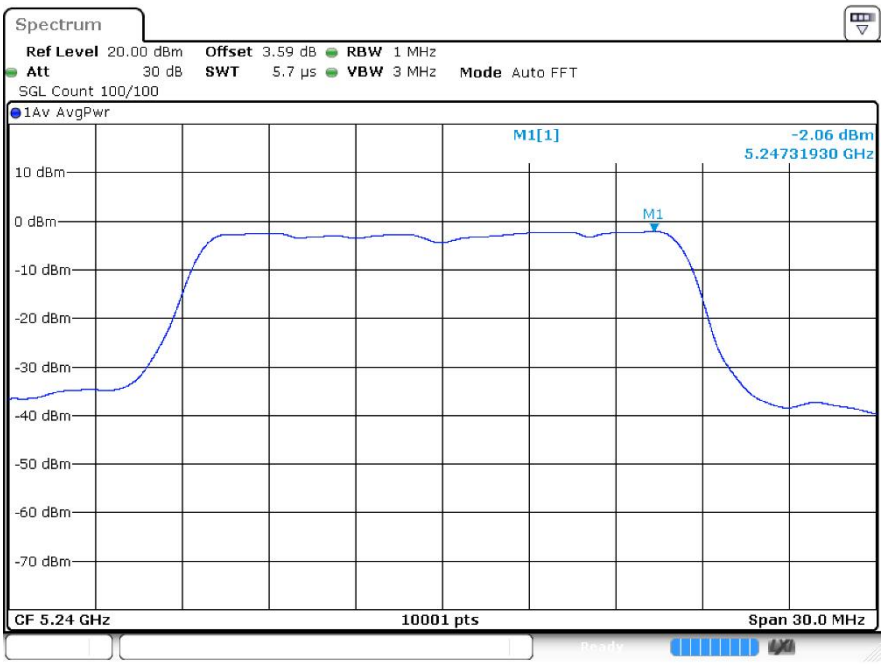
Test Graphs
PSDa 5180MHz Ant1



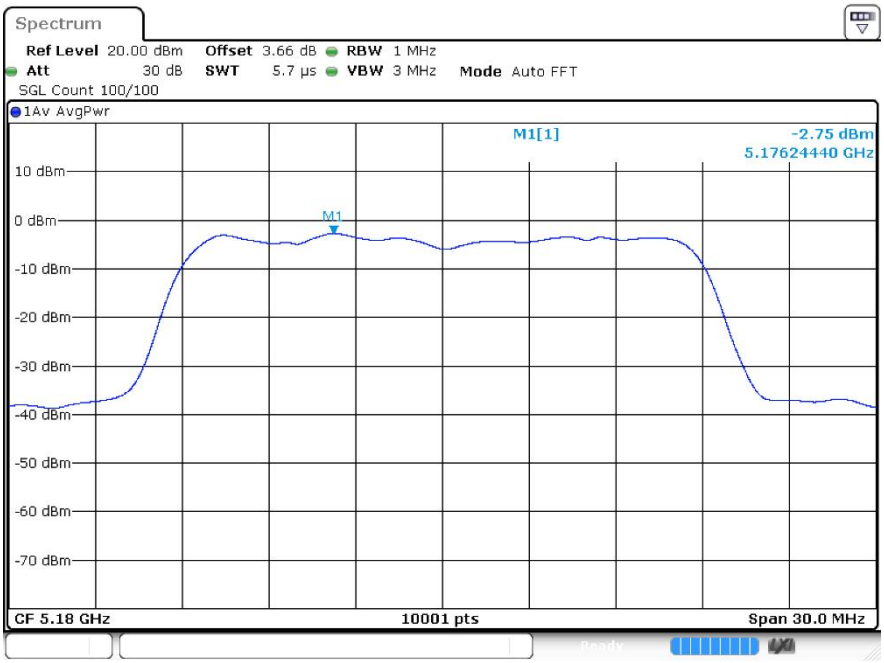
PSD a 5200MHz Ant1



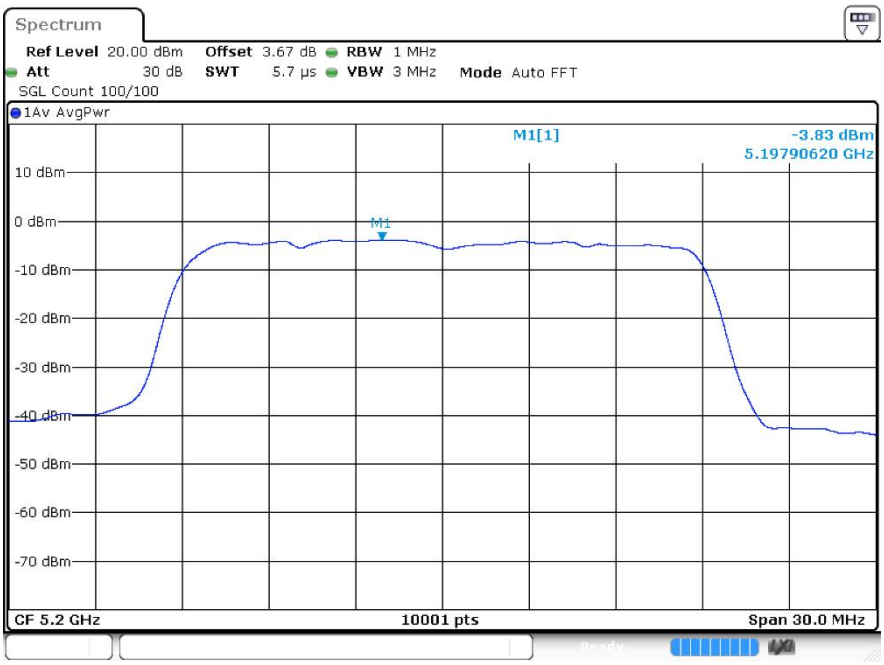
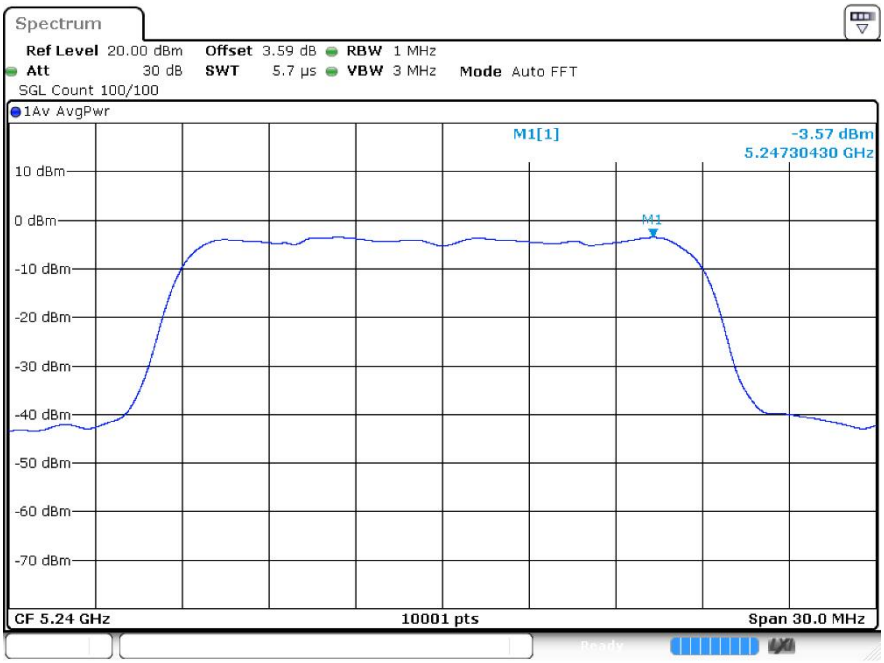
PSDa 5240MHz Ant1



PSD n20 5180MHz Ant1



PSD n20 5200MHz Ant1



PSD n20 5240MHz Ant1