Appendix D

RF Test Data for B1WIFI(Conducted Measurement)

Product Name: Tablet

Trade Mark:

SUAAT, UJJ, DEERTIME, ZIOVO, DMOAO, SKYEGG, fezawio, JUEDUR, Biegedy, JUSYEA, YESTEL, Biegedy, GOODTEL

Test Model: S3

Environmental Conditions

Temperature:	24.6℃
Relative Humidity:	52.4%
ATM Pressure:	101Kpa
Test Engineer:	Emiya lin
Supervised by:	Simba Haung

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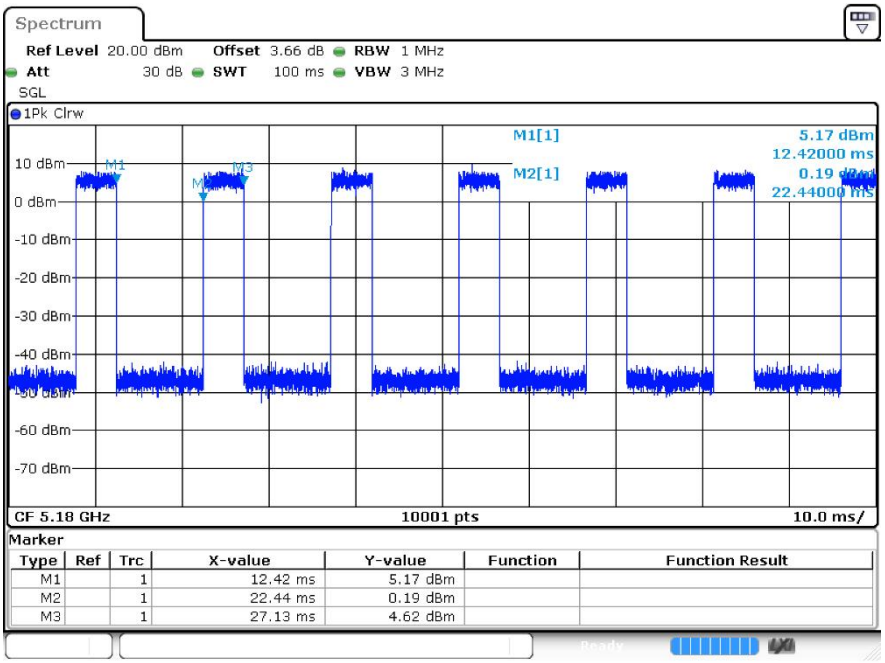
1 Duty Cycle

1.1 Test Result

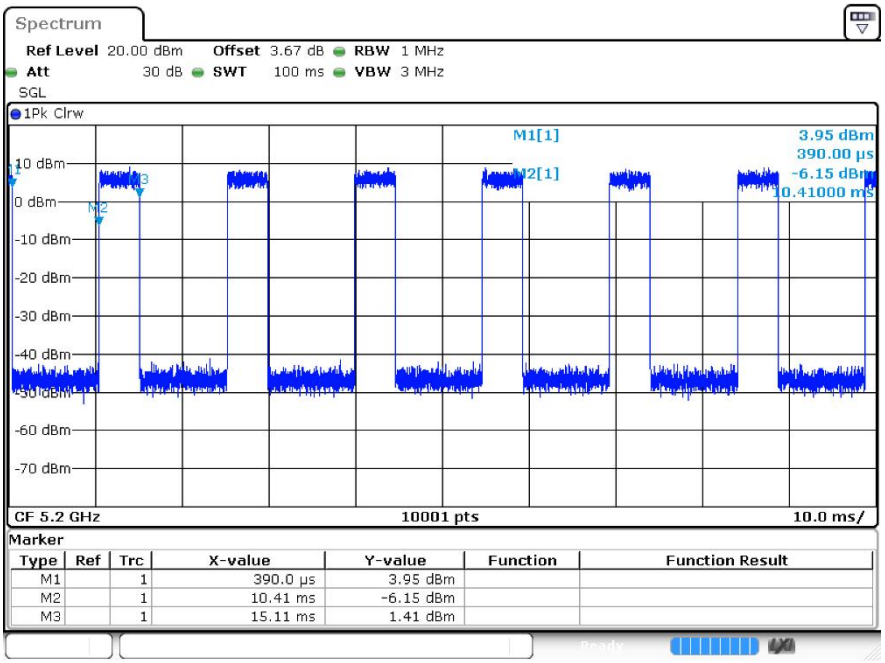
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5180	Ant1	32.25	4.92	0.21
a	5200	Ant1	29.94	5.24	0.21
a	5240	Ant1	32.17	4.93	0.21
n20	5180	Ant1	37.26	4.29	0.16
n20	5200	Ant1	37.26	4.29	0.16
n20	5240	Ant1	39.27	4.06	0.16
n40	5190	Ant1	32.22	4.92	0.2
n40	5230	Ant1	30.61	5.14	0.2
ac20	5180	Ant1	30.91	5.1	0.2
ac20	5200	Ant1	34.1	4.67	0.2
ac20	5240	Ant1	35.44	4.51	0.2
ac40	5190	Ant1	30.39	5.17	0.2
ac40	5230	Ant1	34.41	4.63	0.2
ac80	5210	Ant1	29.9	5.24	0.22
ax20	5180	Ant1	27.21	5.65	0.26
ax20	5200	Ant1	28.44	5.46	0.26
ax20	5240	Ant1	29.97	5.23	0.26
ax40	5190	Ant1	27.77	5.56	0.26
ax40	5230	Ant1	29.92	5.24	0.26
ax80	5210	Ant1	26.96	5.69	0.27

1.2 Test Graphs

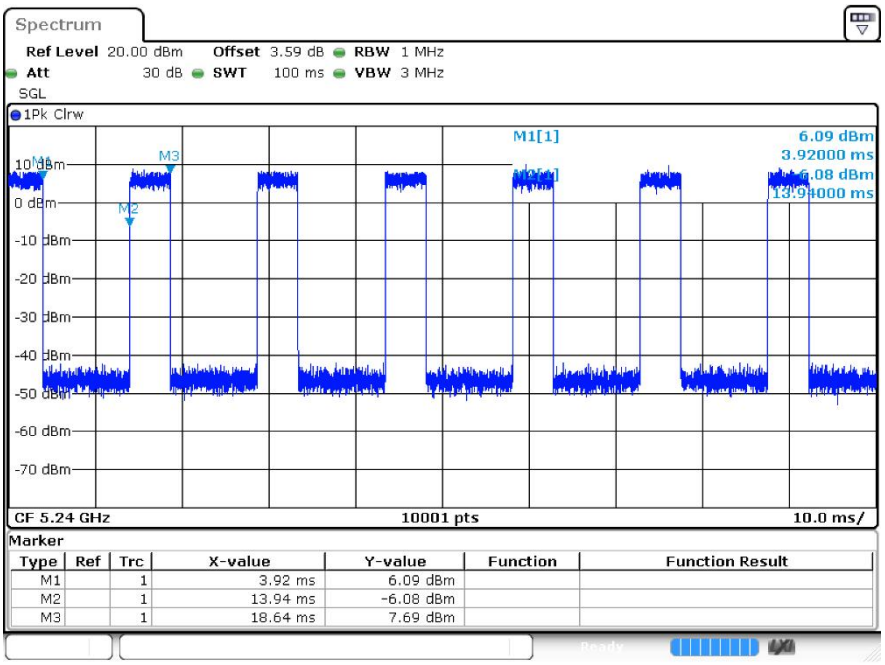
Test Graphs
Duty Cycle a 5180MHz Ant1



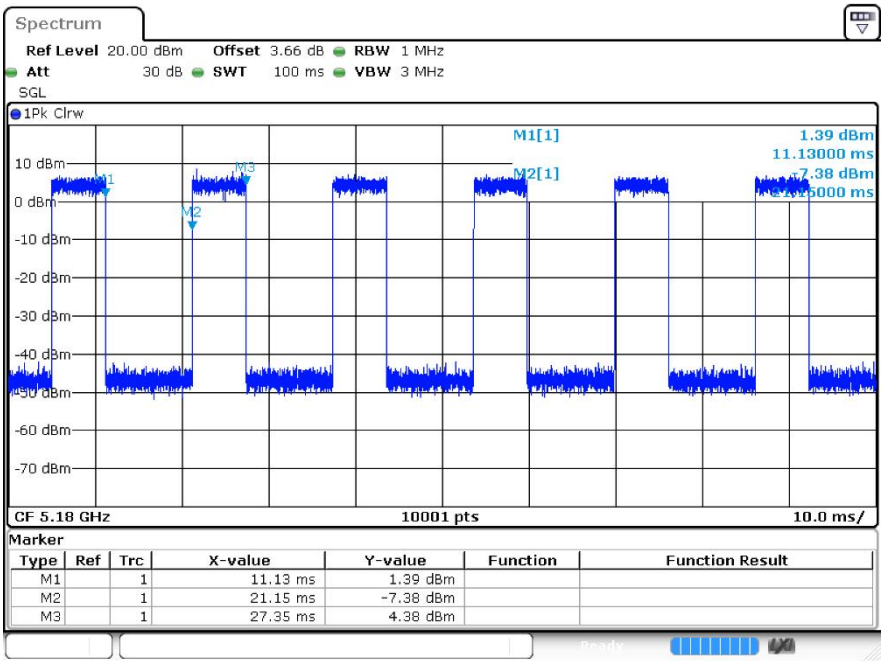
Duty Cycle a 5200MHz Ant1



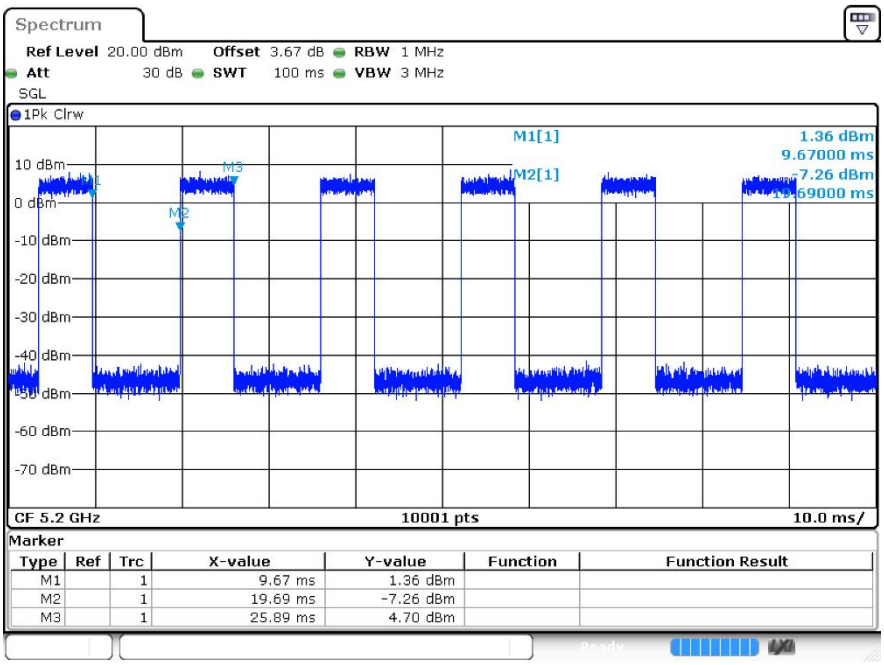
Duty Cycle a 5240MHz Ant1



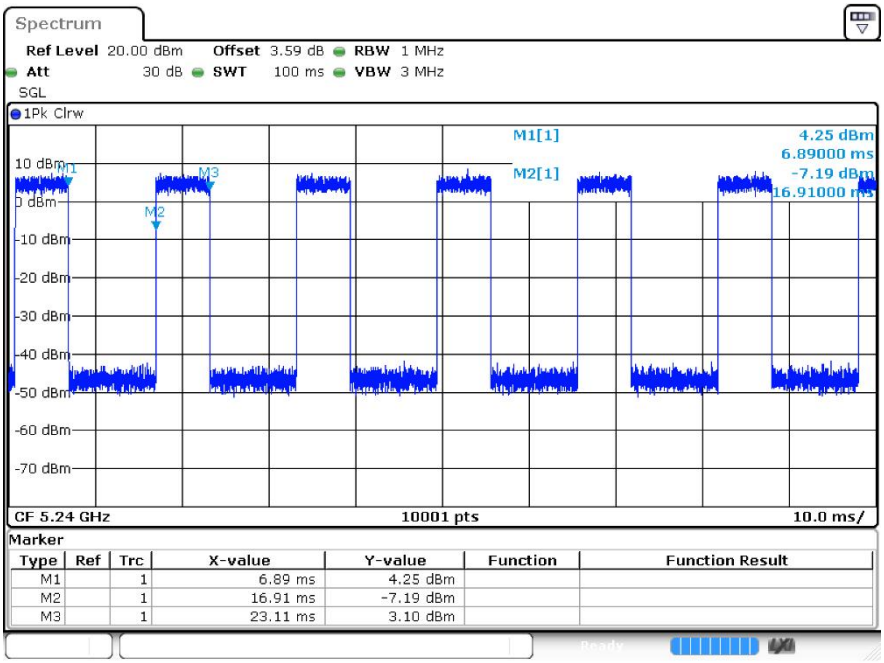
Duty Cycle n20 5180MHz Ant1



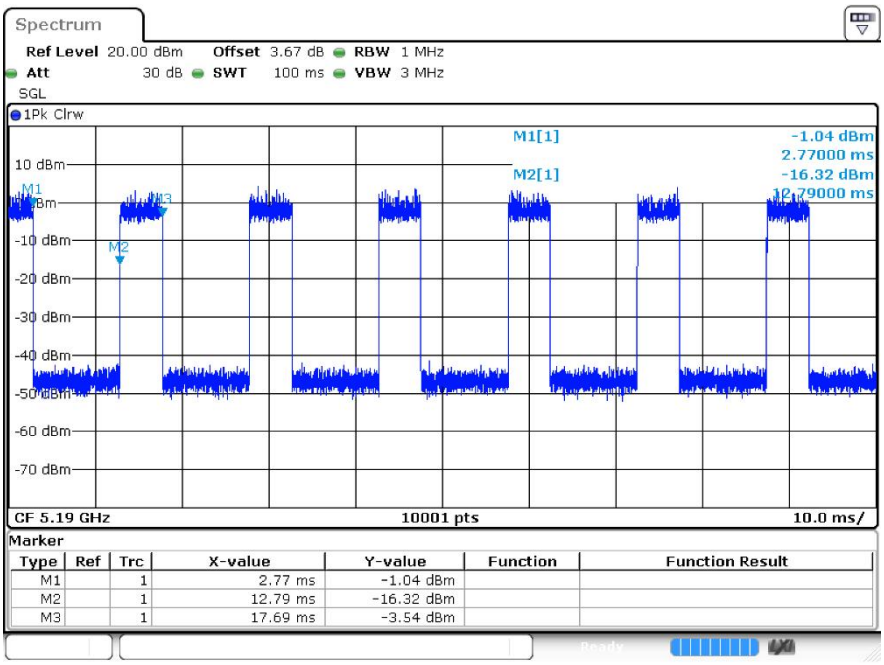
Duty Cycle a n20 5200MHz Ant1



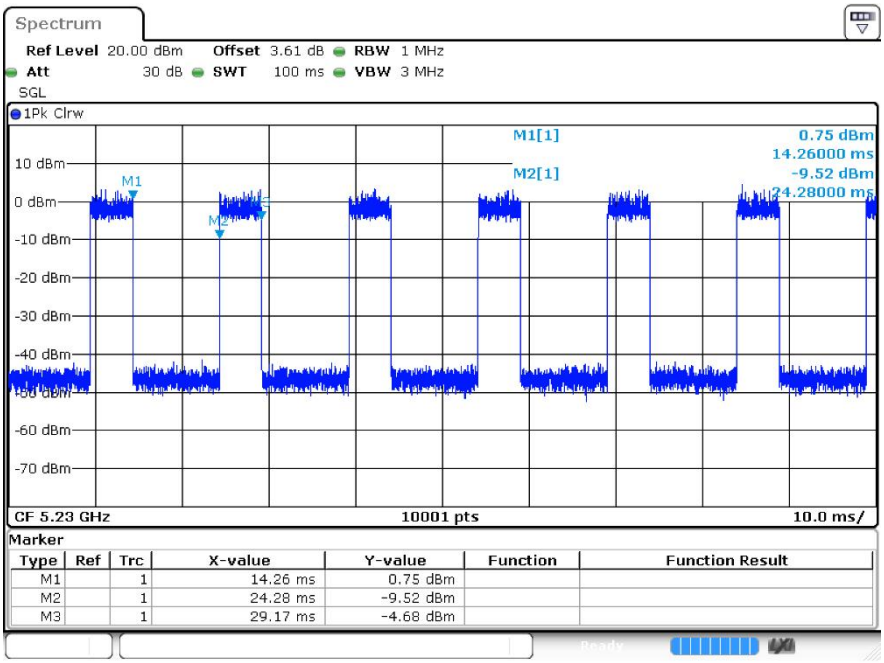
Duty Cycle n20 5240MHz Ant1



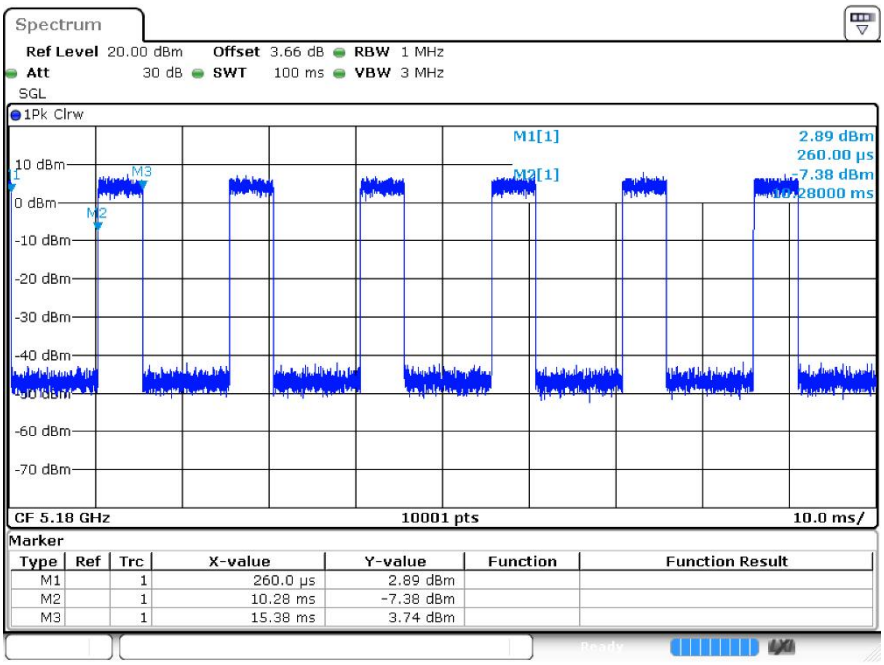
Duty Cyclen40 5190MHz Ant1



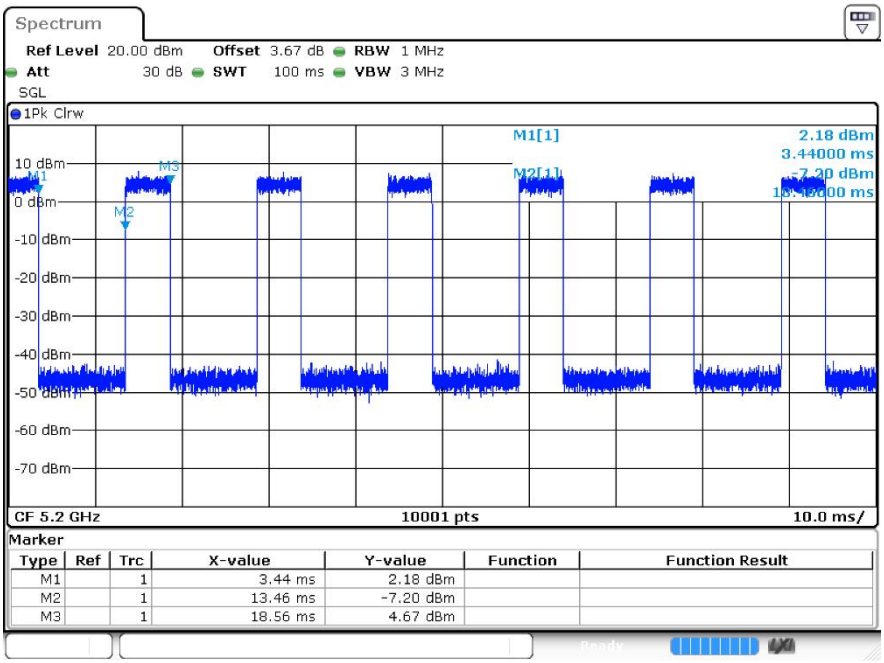
Duty Cyclen40 5230MHz Ant1



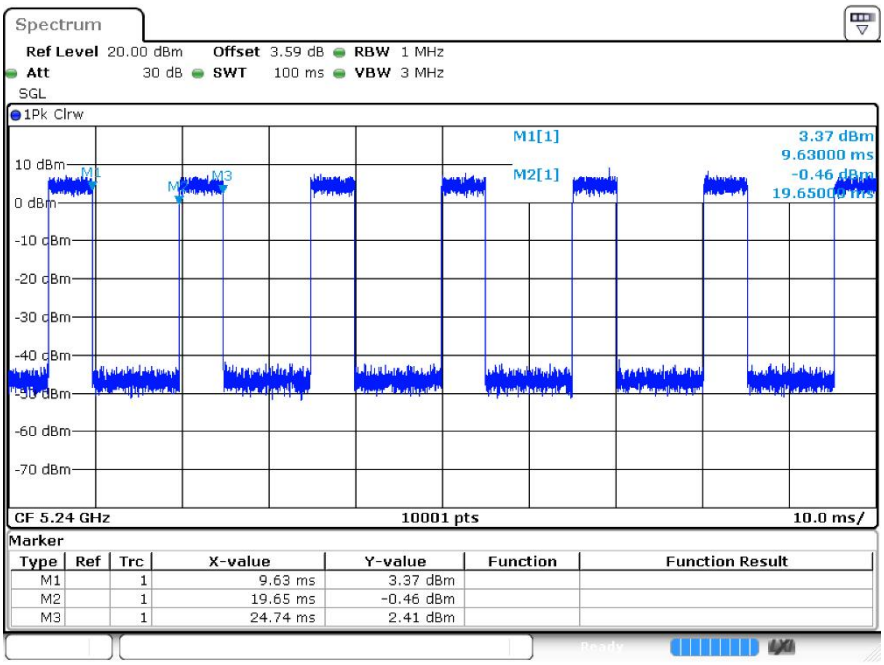
Duty Cycle ac20 5180MHz Ant1



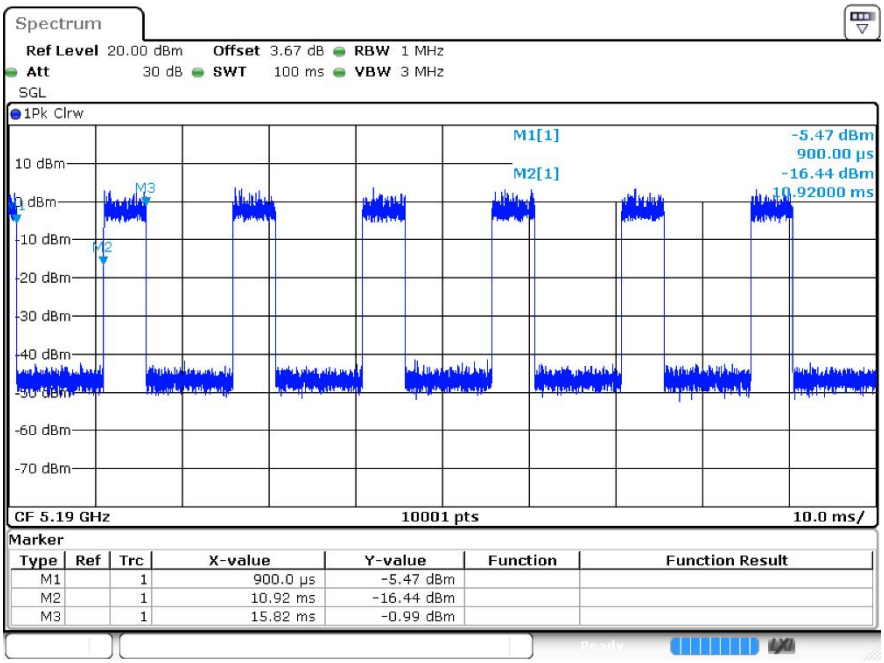
Duty Cycle ac20 5200MHz Ant1



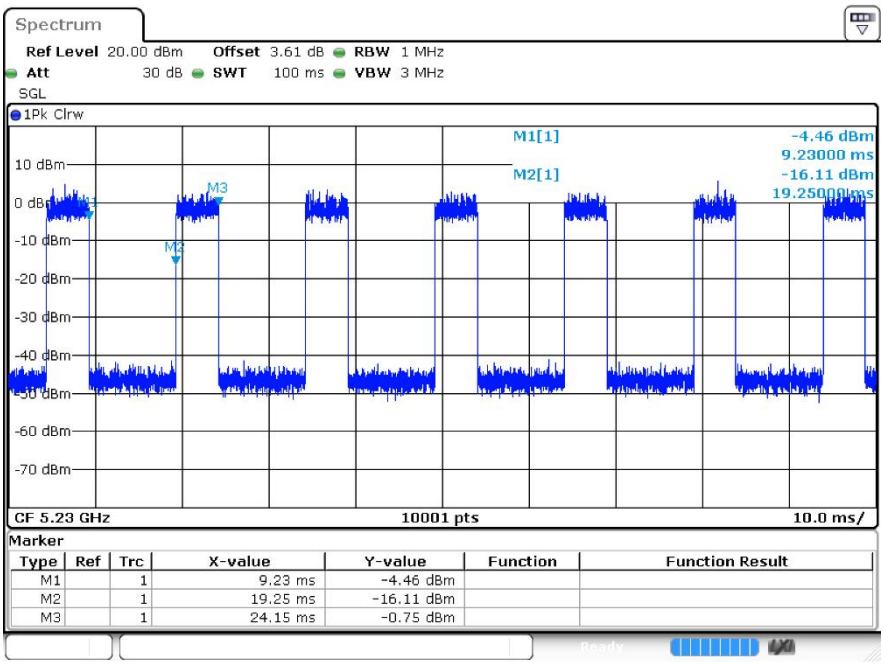
Duty Cycle ac20 5240MHz Ant1



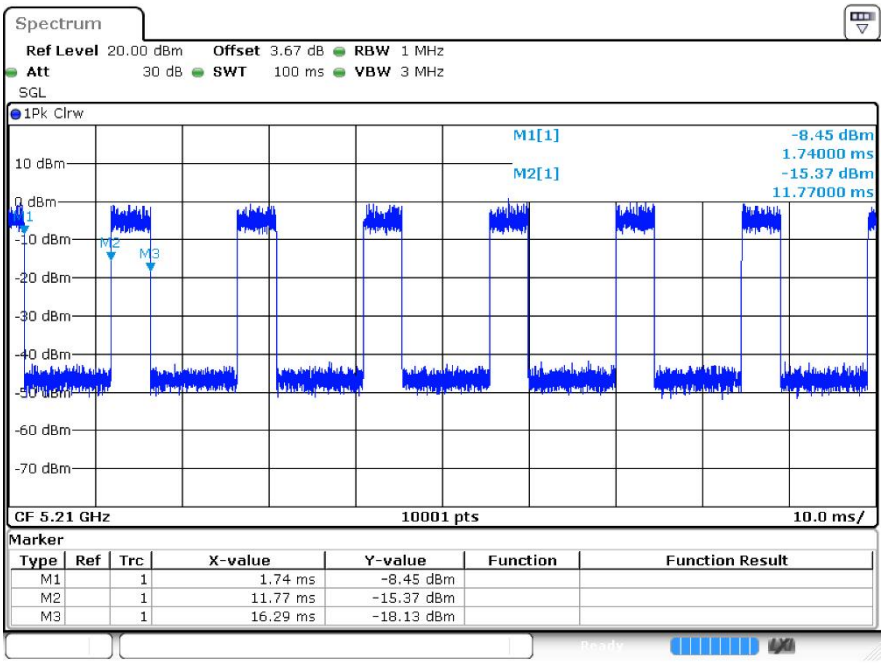
Duty Cycleac40 5190MHz Ant1



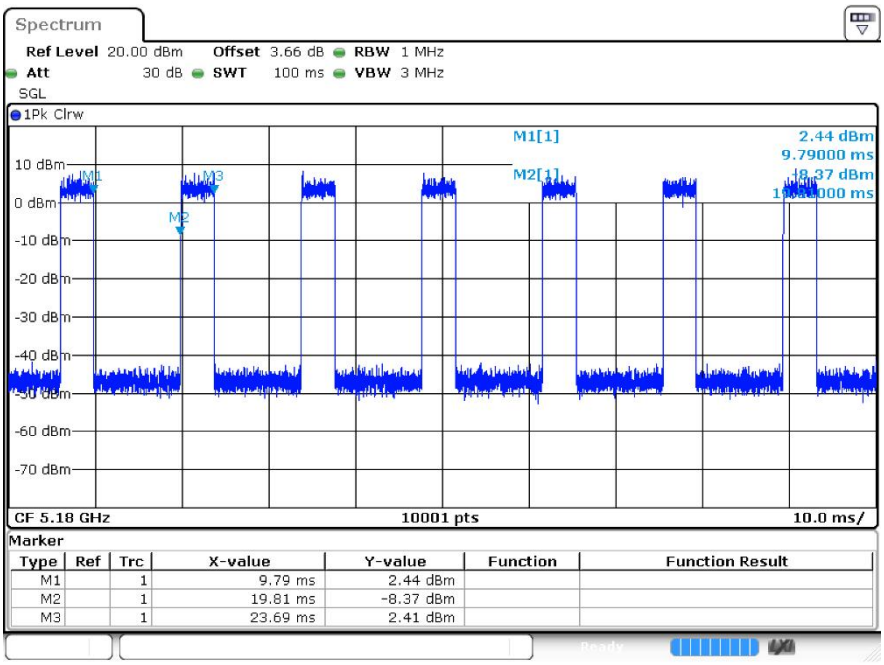
Duty Cycleac40 5230MHz Ant1



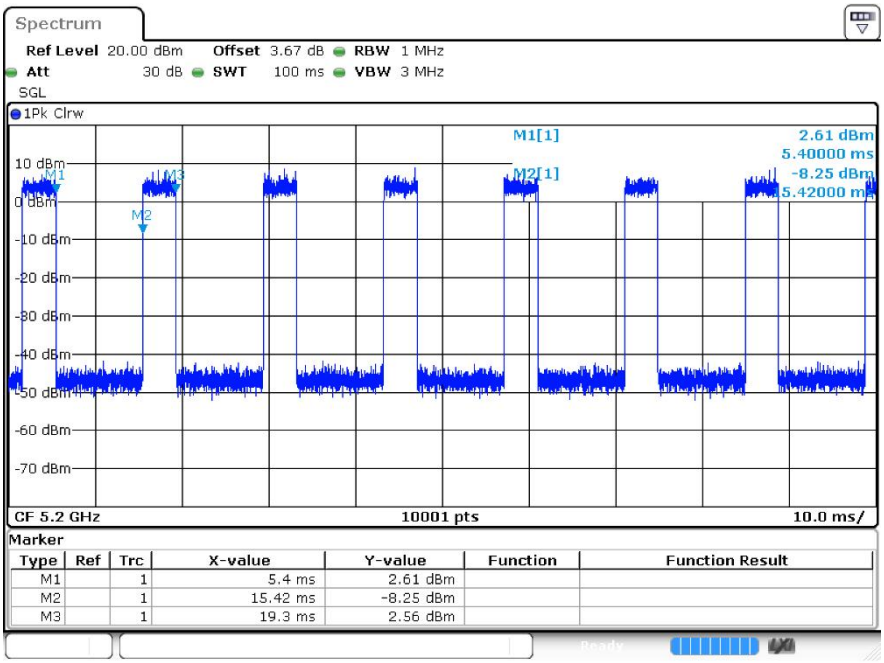
Duty Cycleac80 5210MHz Ant1



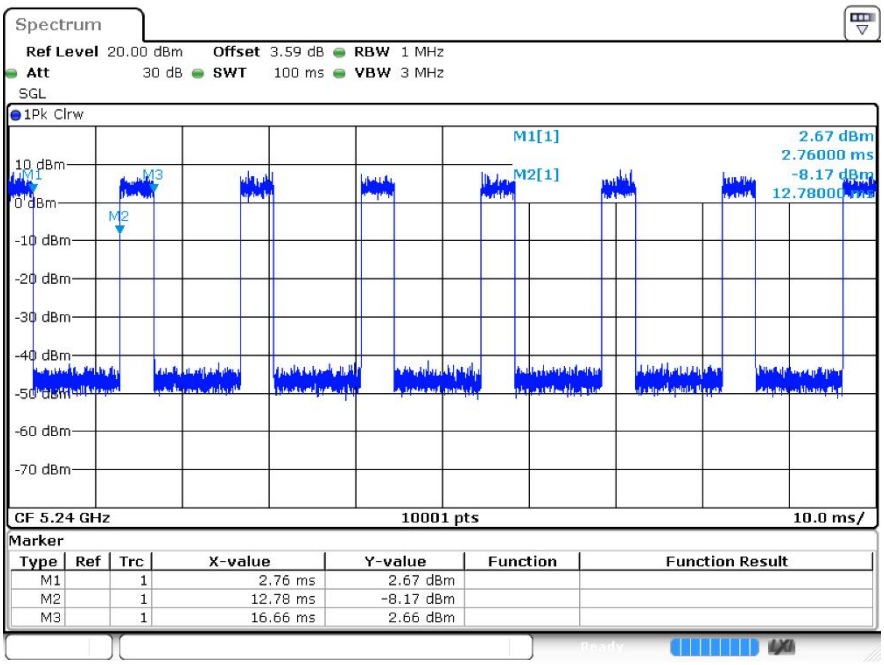
Duty Cycle ax20 5180MHz Ant1



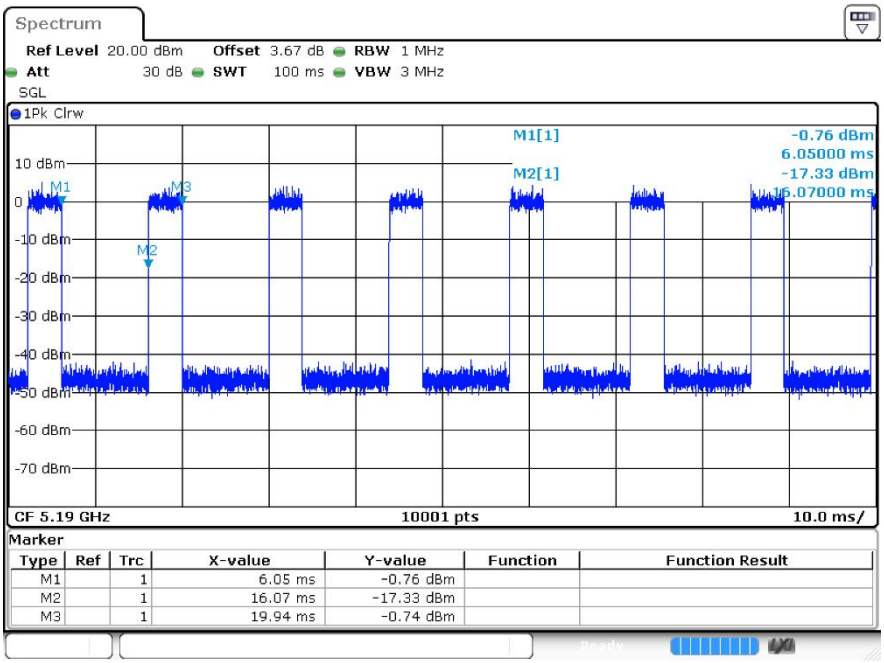
Duty Cycle ax20 5200MHz Ant1



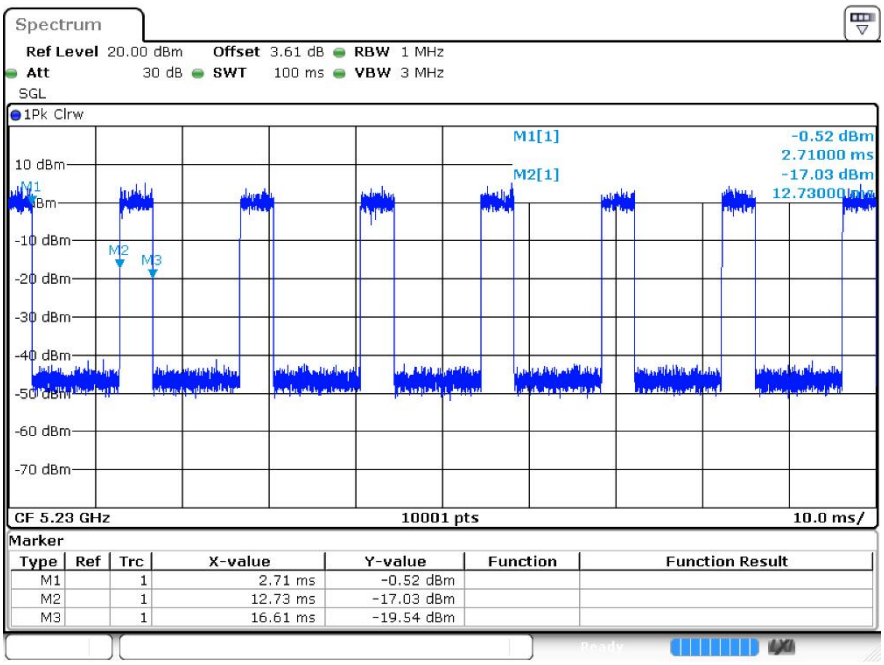
Duty Cycle ax20 5240MHz Ant1



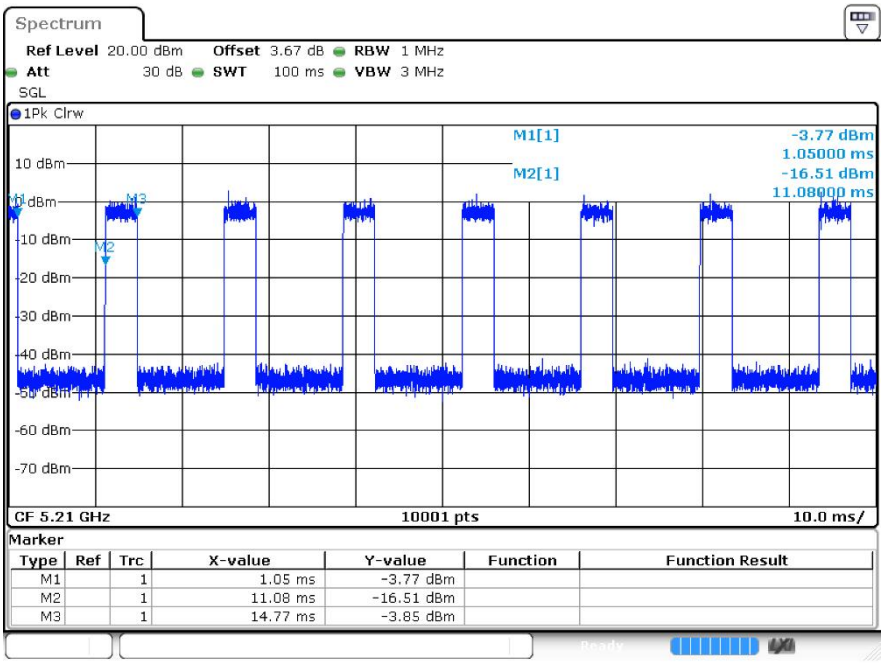
Duty Cycleax40 5190MHz Ant1



Duty Cycleax40 5230MHz Ant1



Duty Cycleax80 5210MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	15.21	24	Pass
a	5200	Ant1	15.44	24	Pass
a	5240	Ant1	15.62	24	Pass
n20	5180	Ant1	14.29	24	Pass
n20	5200	Ant1	14.46	24	Pass
n20	5240	Ant1	14.62	24	Pass
n40	5190	Ant1	14.23	24	Pass
n40	5230	Ant1	14.54	24	Pass
ac20	5180	Ant1	14.24	24	Pass
ac20	5200	Ant1	14.48	24	Pass
ac20	5240	Ant1	14.43	24	Pass
ac40	5190	Ant1	14.17	24	Pass
ac40	5230	Ant1	14.52	24	Pass
ac80	5210	Ant1	14.37	24	Pass
ax20	5180	Ant1	13.77	24	Pass
ax20	5200	Ant1	13.82	24	Pass
ax20	5240	Ant1	14.11	24	Pass
ax40	5190	Ant1	13.76	24	Pass
ax40	5230	Ant1	14.23	24	Pass
ax80	5210	Ant1	14.09	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	24.252	0.5	Pass
a	5200	Ant1	22.41	0.5	Pass
a	5240	Ant1	20.409	0.5	Pass
n20	5180	Ant1	23.655	0.5	Pass
n20	5200	Ant1	28.011	0.5	Pass
n20	5240	Ant1	21.498	0.5	Pass
n40	5190	Ant1	42.294	0.5	Pass
n40	5230	Ant1	42.972	0.5	Pass
ac20	5180	Ant1	25.503	0.5	Pass
ac20	5200	Ant1	25.239	0.5	Pass
ac20	5240	Ant1	23.319	0.5	Pass
ac40	5190	Ant1	41.682	0.5	Pass
ac40	5230	Ant1	42.606	0.5	Pass
ac80	5210	Ant1	80.688	0.5	Pass
ax20	5180	Ant1	24.285	0.5	Pass
ax20	5200	Ant1	21.06	0.5	Pass
ax20	5240	Ant1	21.642	0.5	Pass
ax40	5190	Ant1	39.408	0.5	Pass
ax40	5230	Ant1	40.53	0.5	Pass
ax80	5210	Ant1	80.328	0.5	Pass

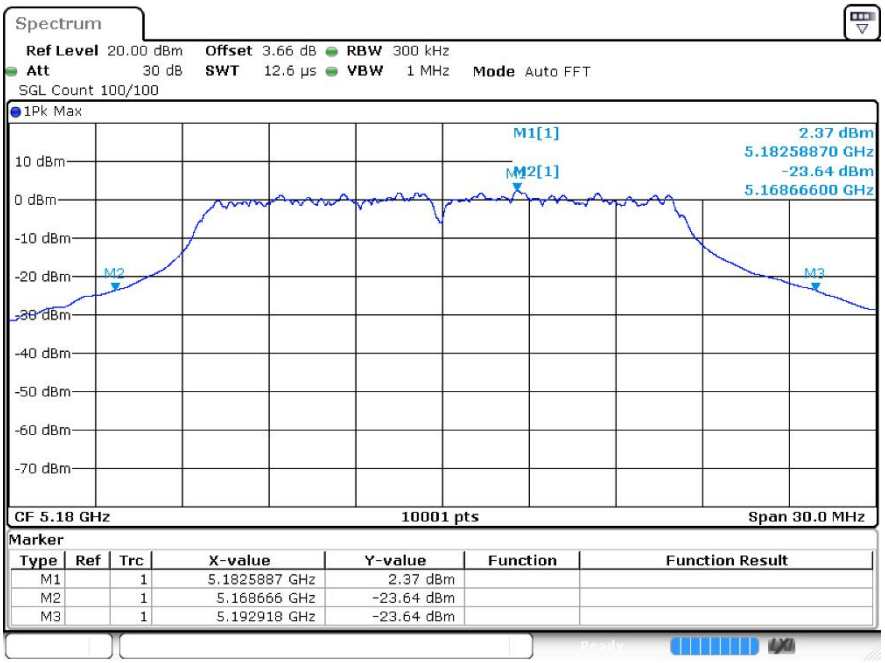
Note:

The duty factor has been compensated into the result.

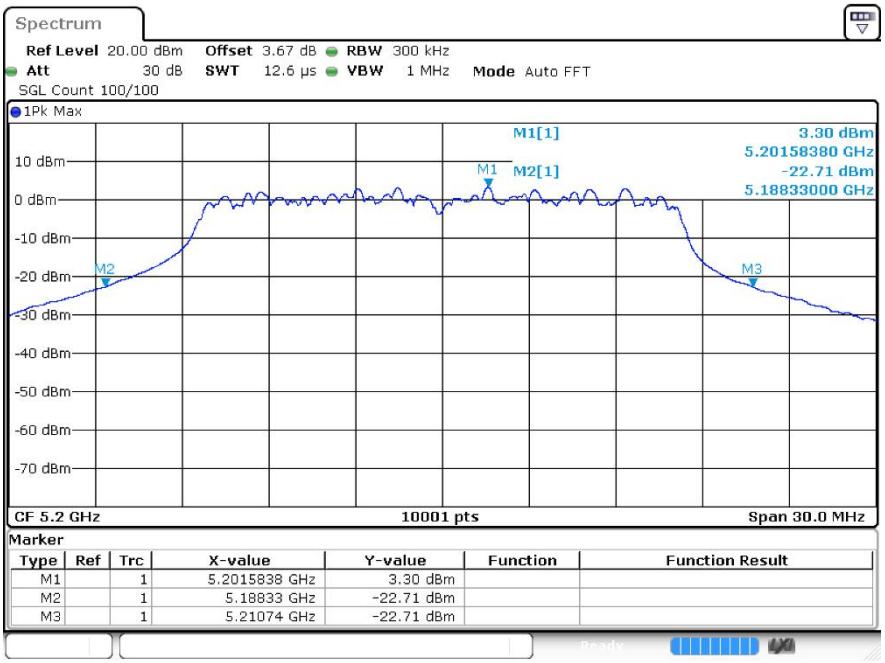
3.2 Test Graphs

Test Graphs

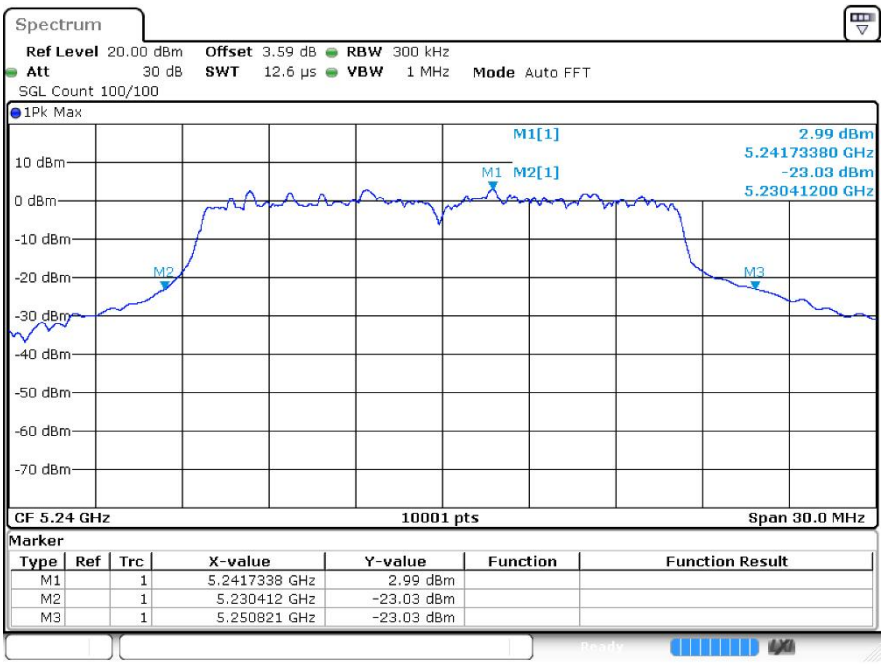
-26dB Bandwidtha 5180MHz Ant1



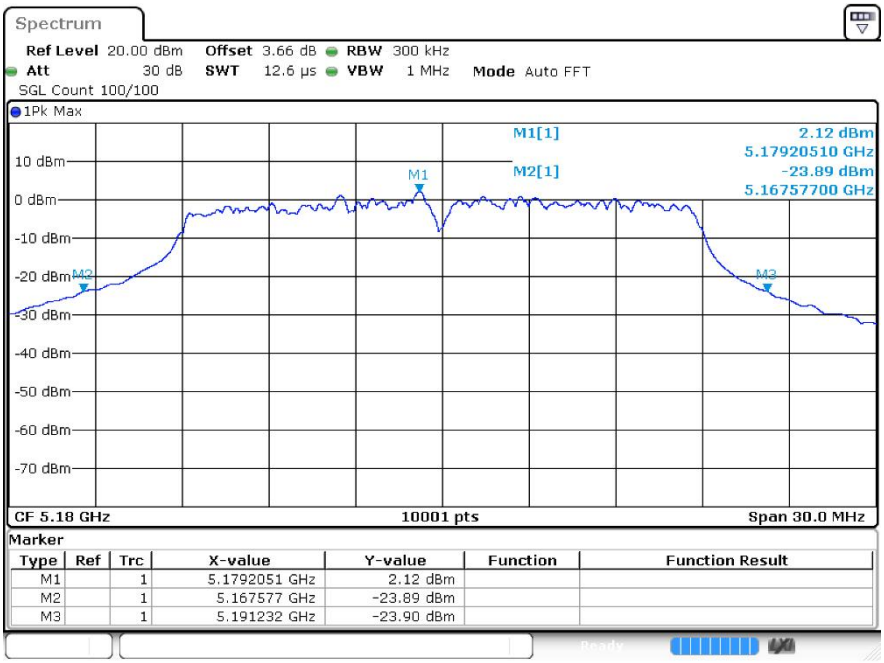
-26dB Bandwidtha 5200MHz Ant1



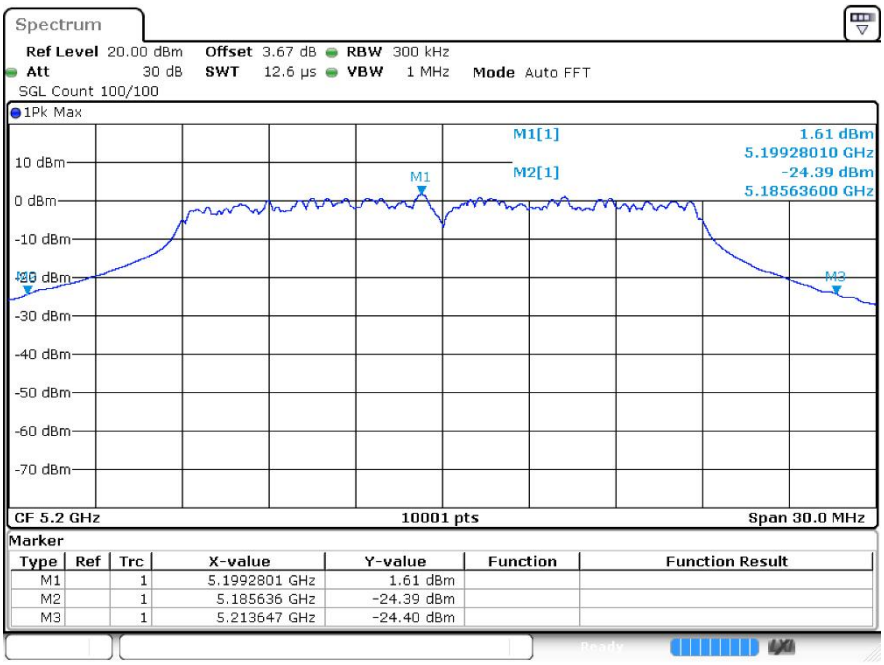
-26dB Bandwidtha 5240MHz Ant1



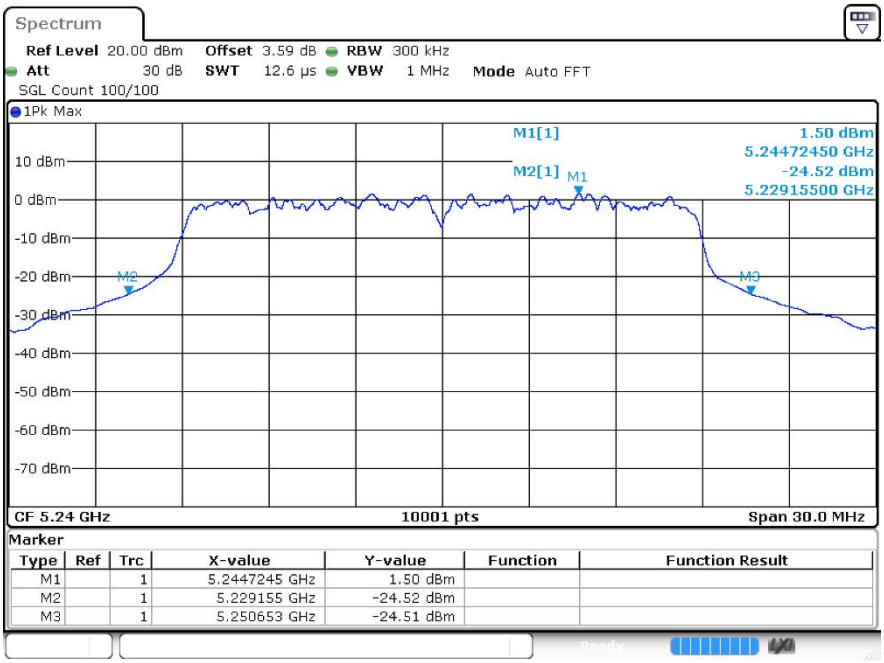
-26dB Bandwidth n20 5180MHz Ant1



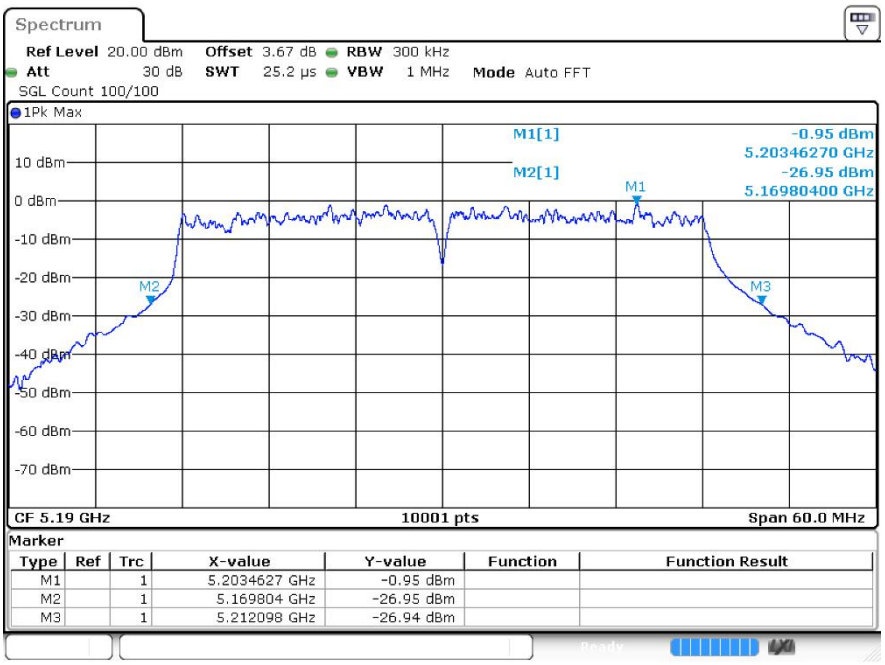
-26dB Bandwidth n20 5200MHz Ant1



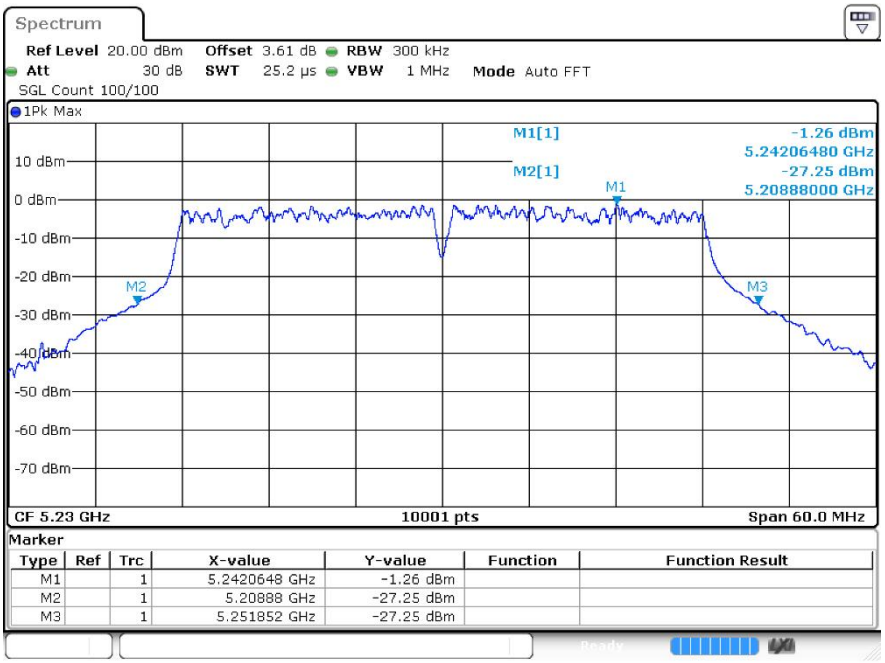
-26dB Bandwidth n20 5240MHz Ant1



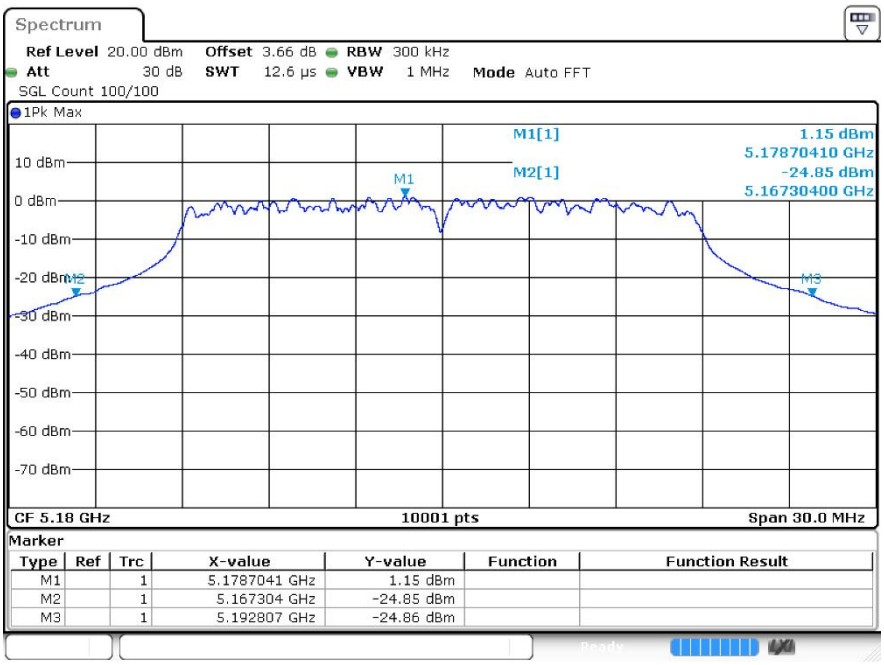
-26dB Bandwidthn40 5190MHz Ant1



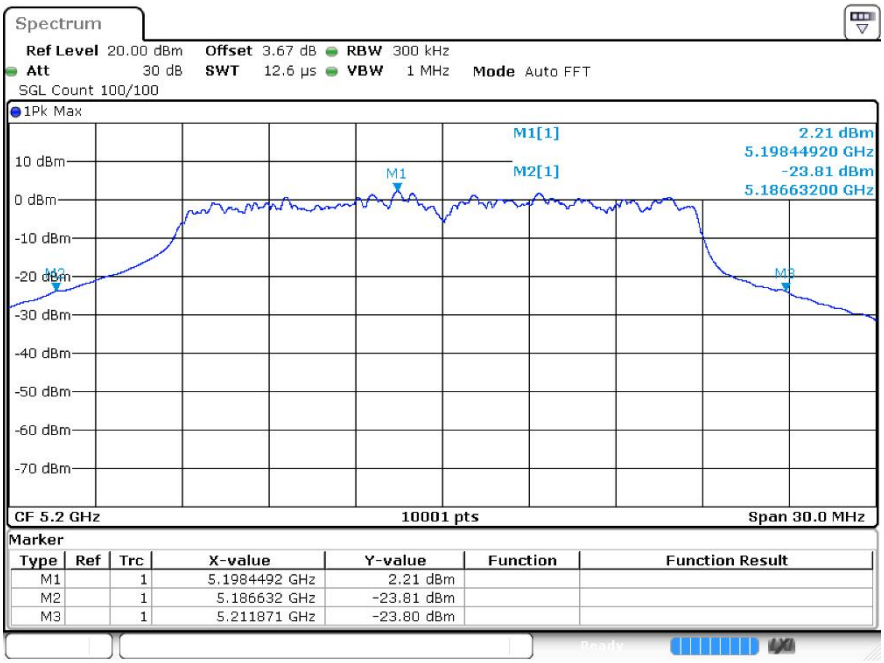
-26dB Bandwidthn40 5230MHz Ant1



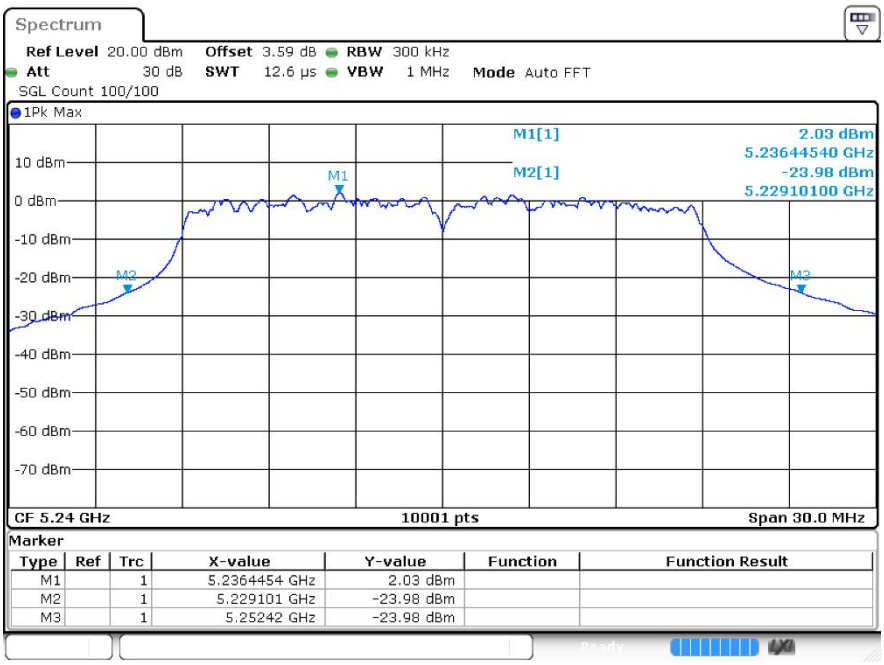
-26dB Bandwidth ac20 5180MHz Ant1



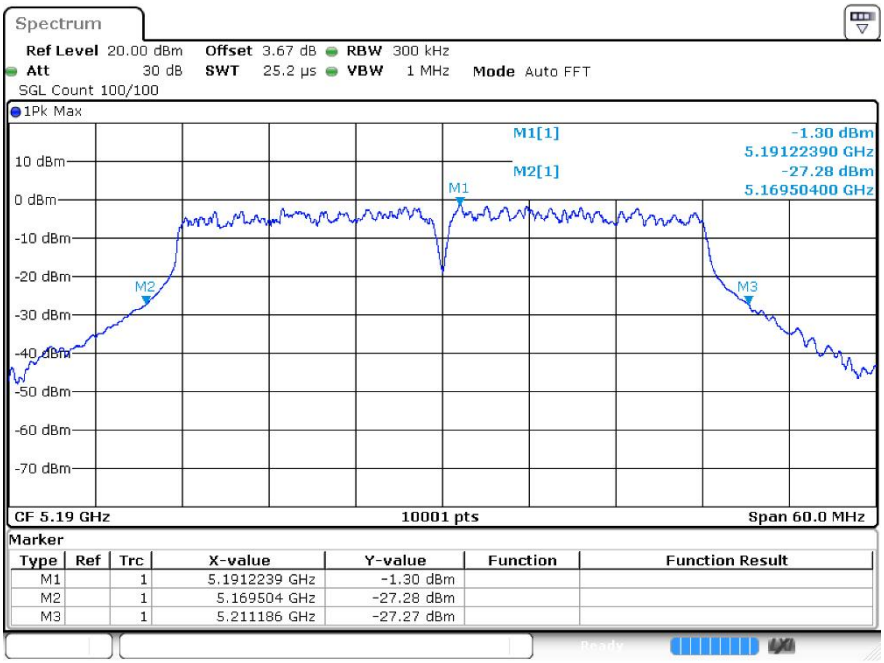
-26dB Bandwidth ac20 5200MHz Ant1



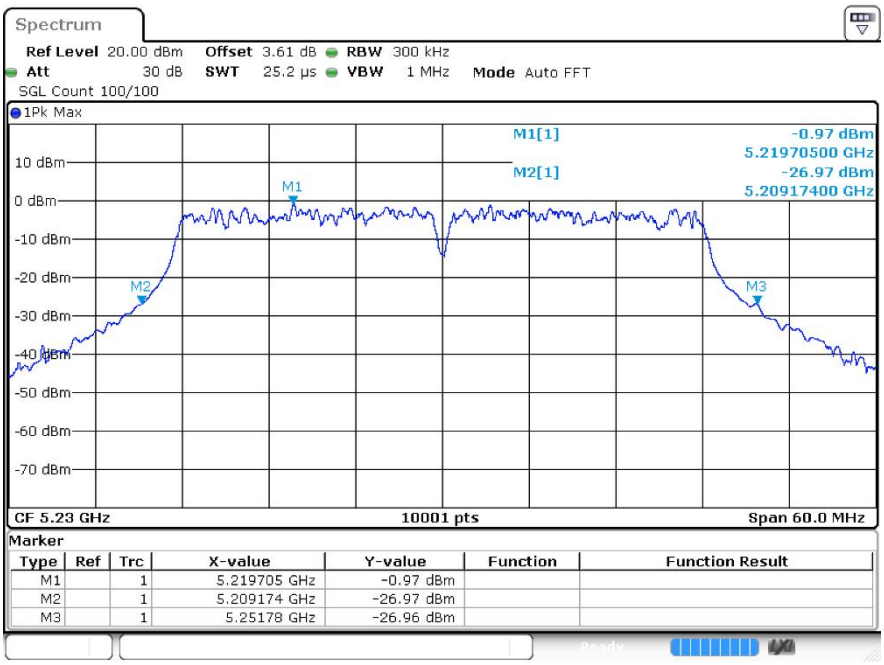
-26dB Bandwidth ac20 5240MHz Ant1



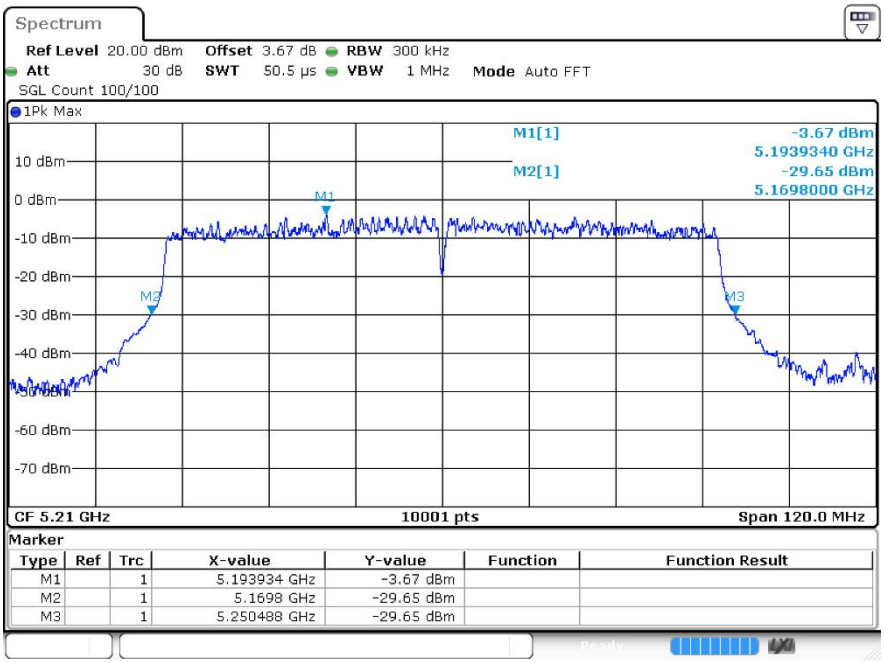
-26dB Bandwidthac40 5190MHz Ant1



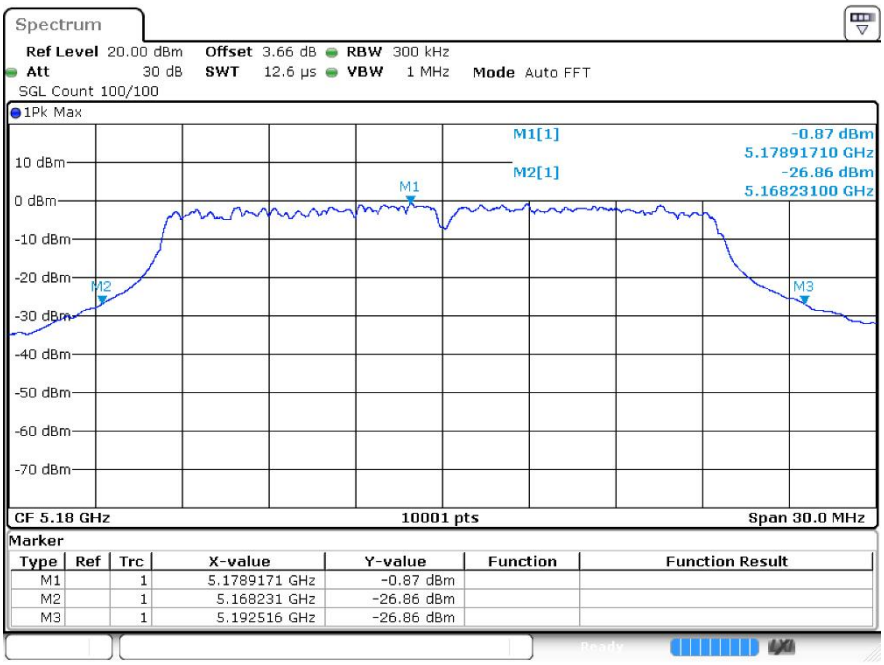
-26dB Bandwidthac40 5230MHz Ant1



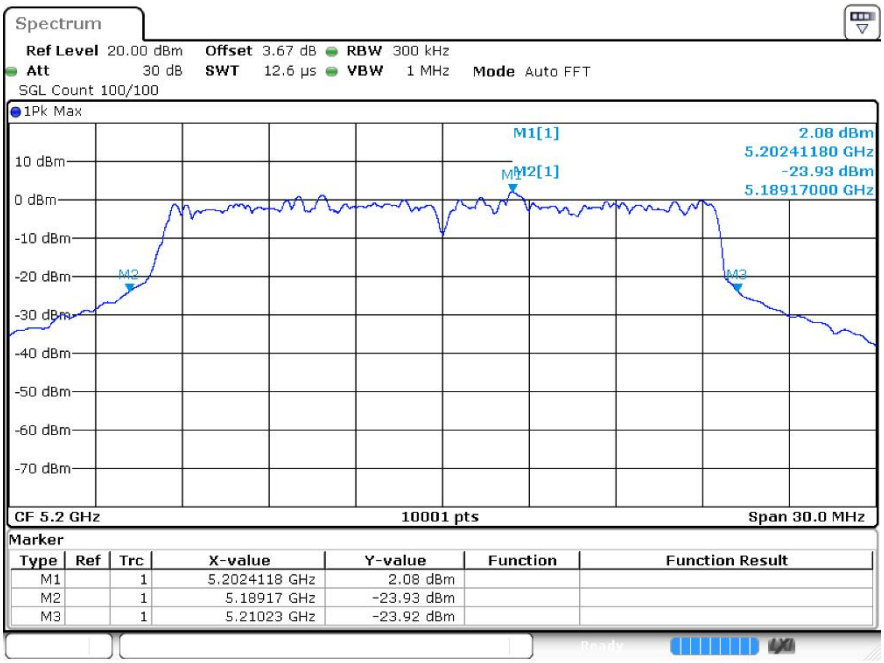
-26dB Bandwidthac80 5210MHz Ant1



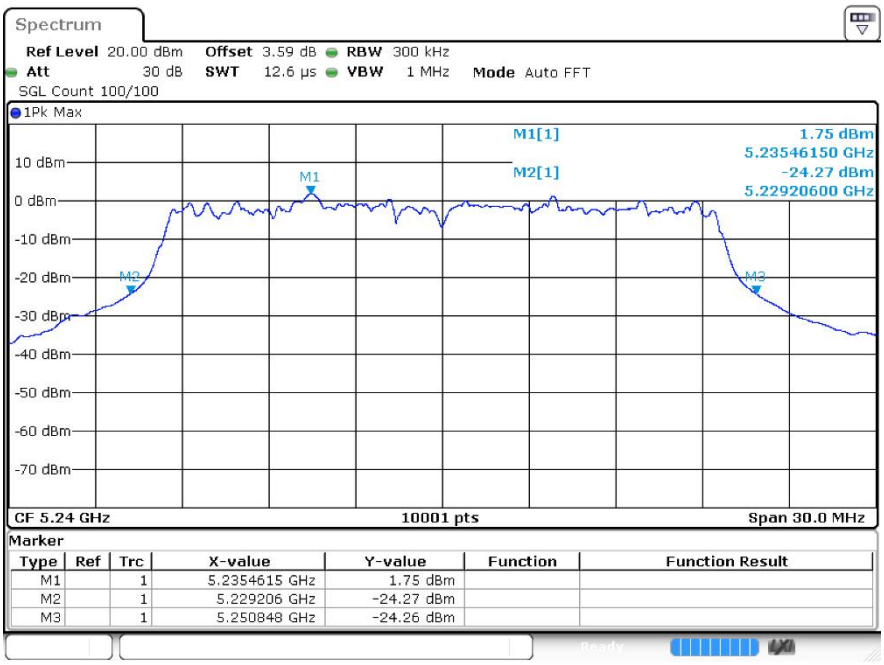
-26dB Bandwidth ax20 5180MHz Ant1



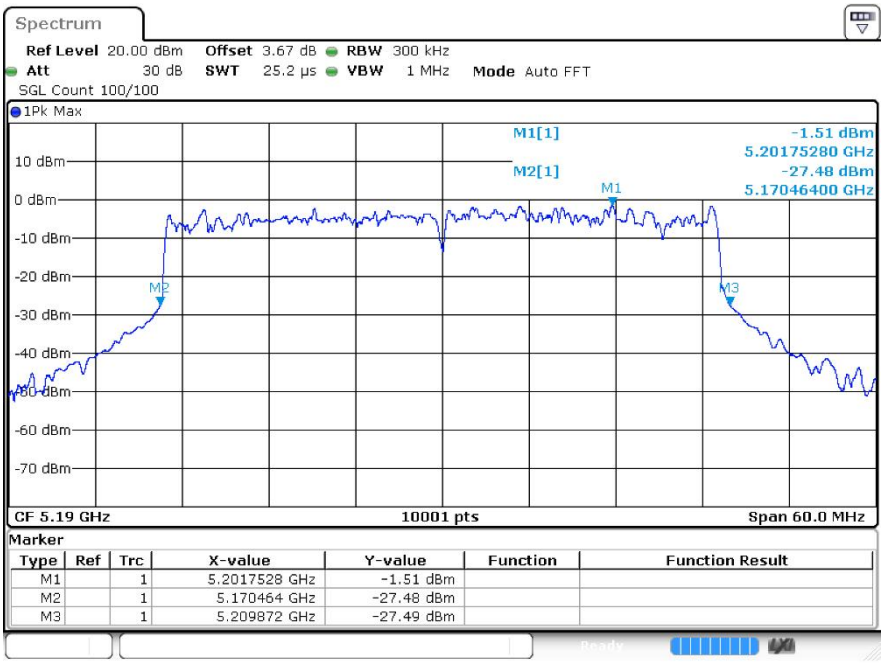
-26dB Bandwidth ax20 5200MHz Ant1



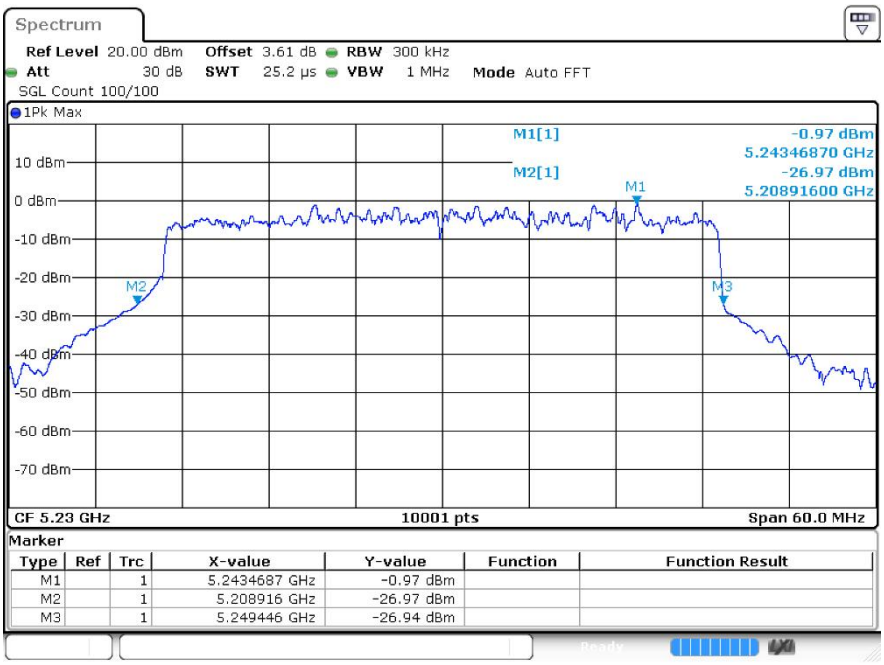
-26dB Bandwidth ax20 5240MHz Ant1



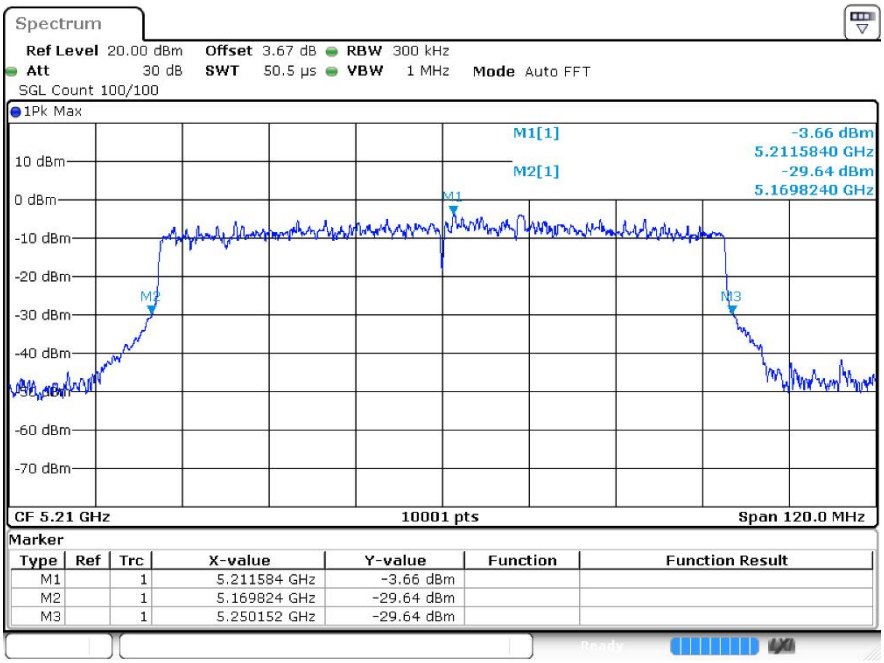
-26dB Bandwidthax40 5190MHz Ant1



-26dB Bandwidthax40 5230MHz Ant1



-26dB Bandwidthax80 5210MHz Ant1



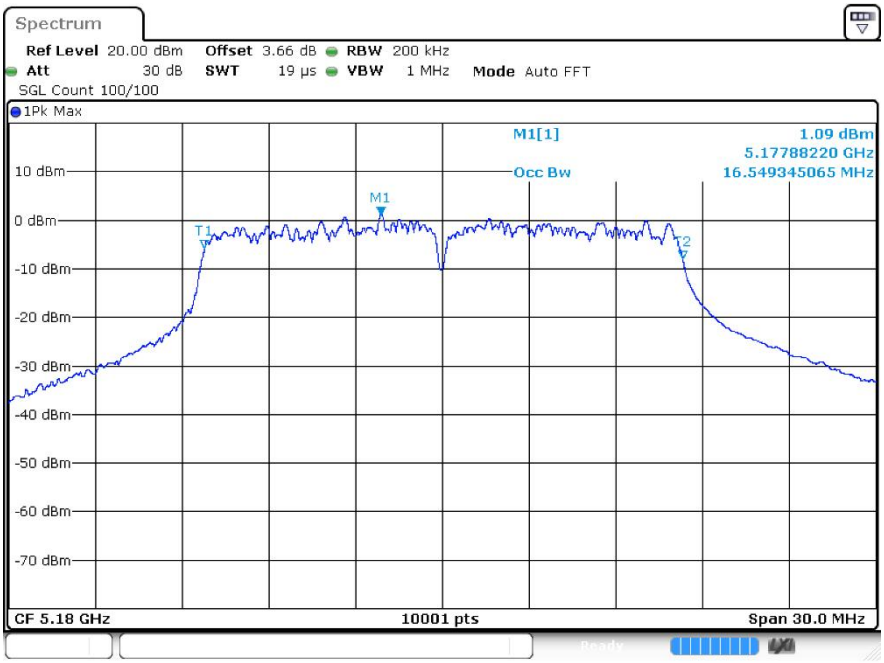
4 Occupied Channel Bandwidth

4.1 Test Result

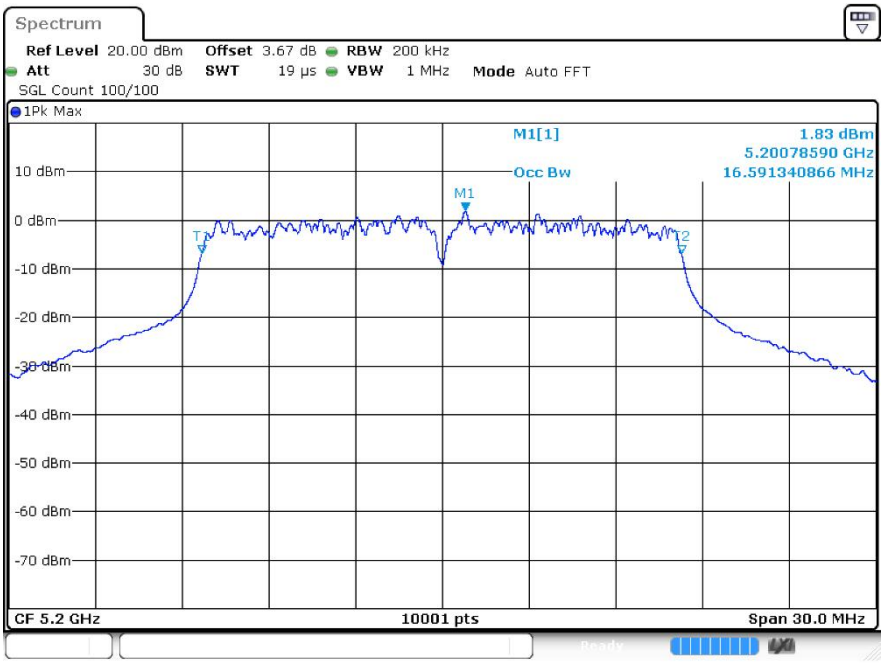
Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5180	Ant1	16.549
a	5200	Ant1	16.591
a	5240	Ant1	16.516
n20	5180	Ant1	17.815
n20	5200	Ant1	17.926
n20	5240	Ant1	17.89
n40	5190	Ant1	36.524
n40	5230	Ant1	36.602
ac20	5180	Ant1	17.848
ac20	5200	Ant1	18.148
ac20	5240	Ant1	18.025
ac40	5190	Ant1	36.122
ac40	5230	Ant1	36.38
ac80	5210	Ant1	75.916
ax20	5180	Ant1	18.946
ax20	5200	Ant1	19.108
ax20	5240	Ant1	19.024
ax40	5190	Ant1	37.94
ax40	5230	Ant1	37.94
ax80	5210	Ant1	77.128

4.2 Test Graphs

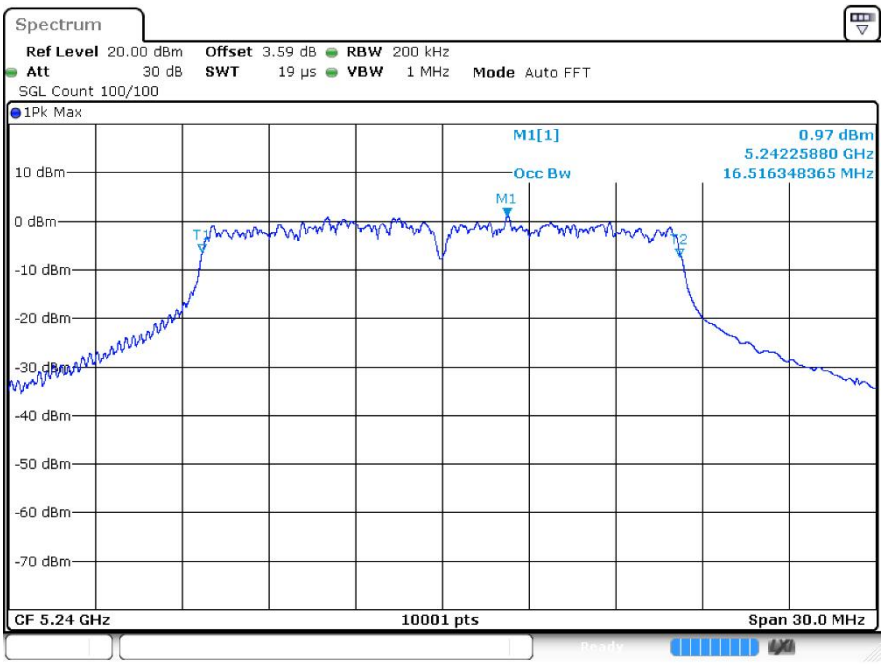
Test Graphs
OBWa 5180MHz Ant1



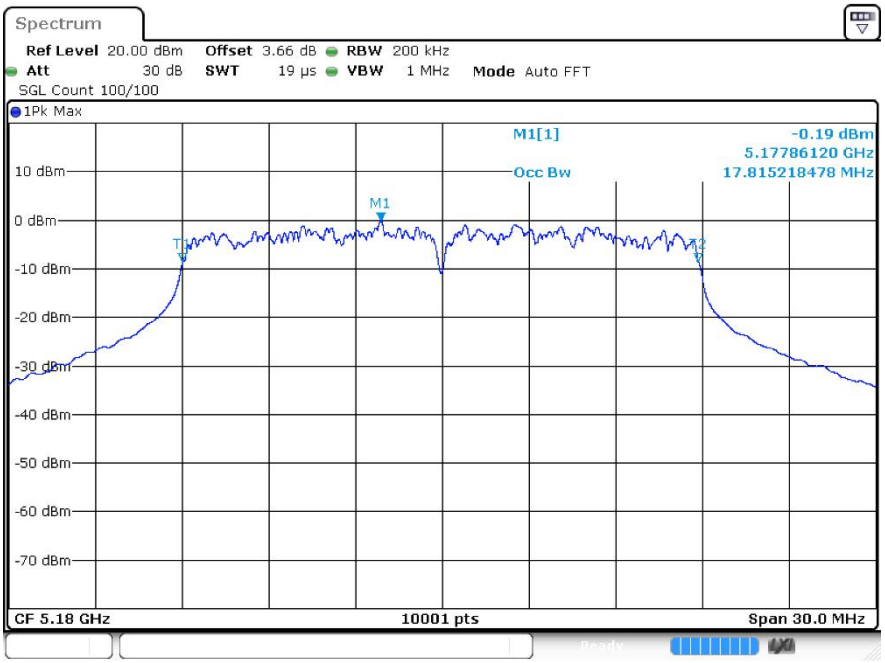
OBWa 5200MHz Ant1



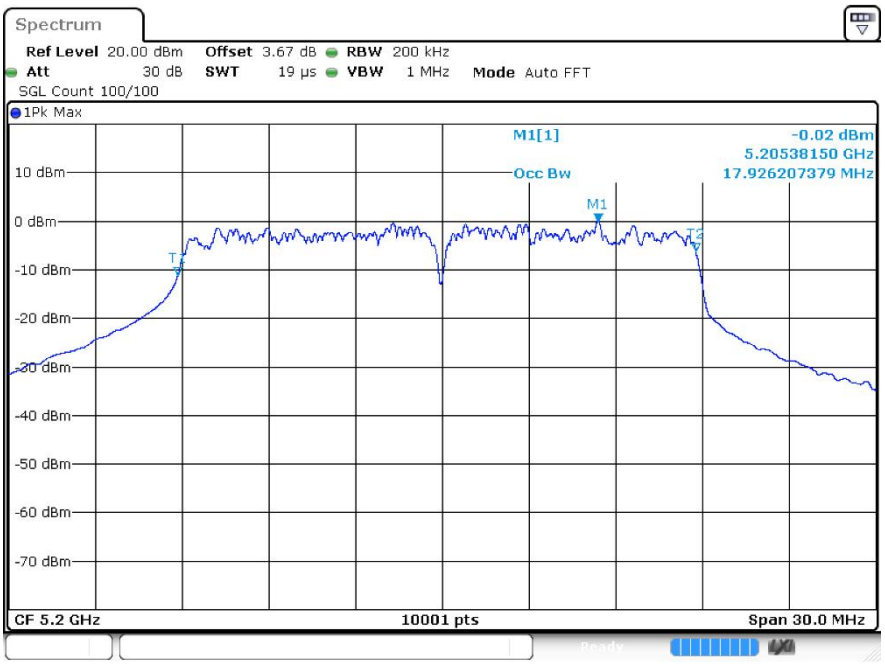
OBWa 5240MHz Ant1



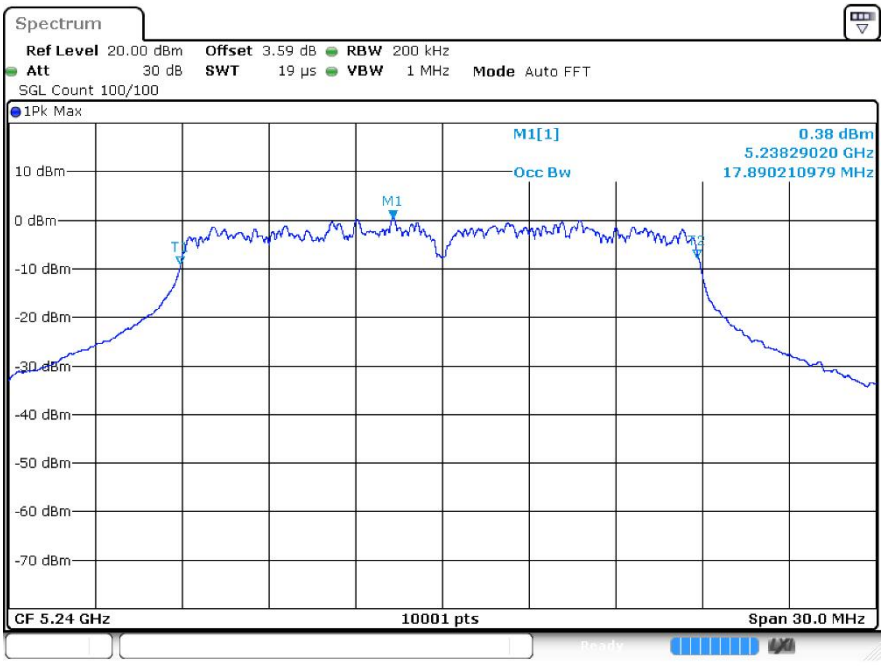
OBW n20 5180MHz Ant1



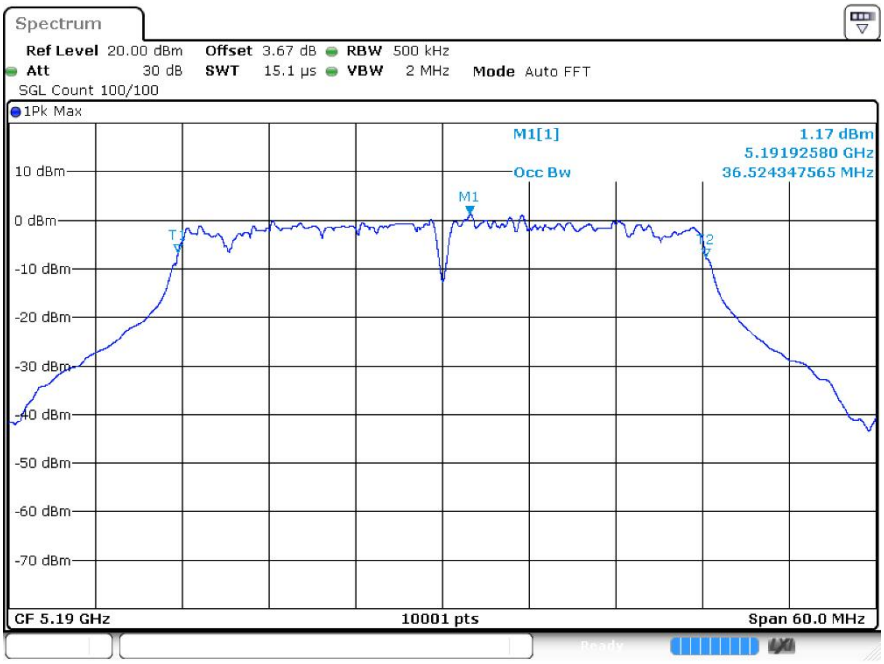
OBW n20 5200MHz Ant1



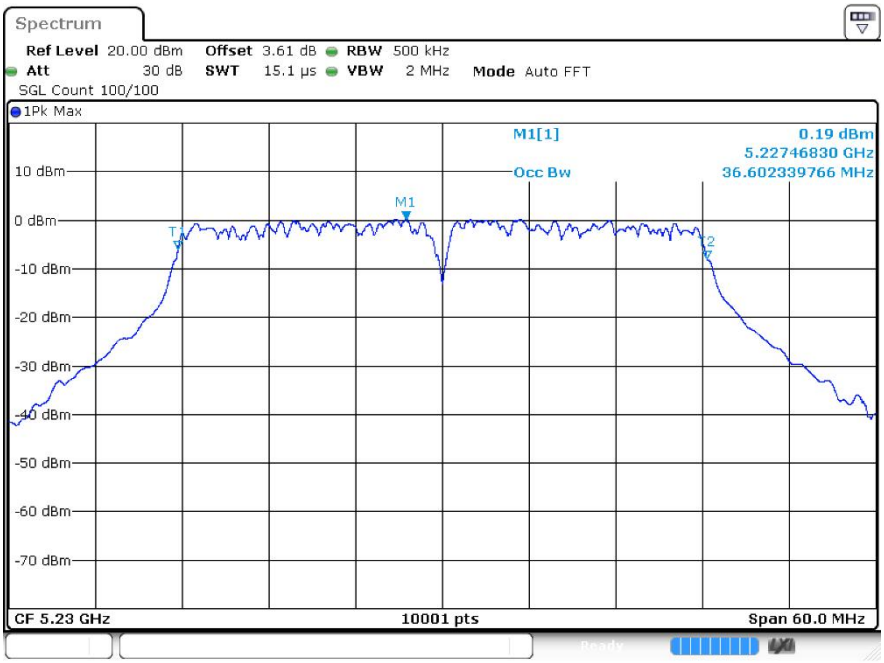
OBW n20 5240MHz Ant1



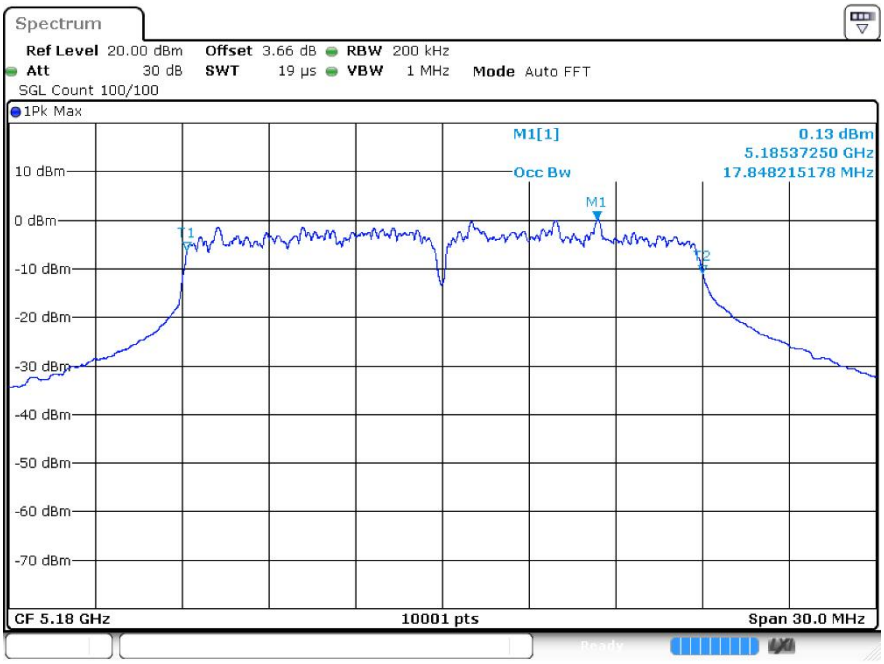
OBWn40 5190MHz Ant1



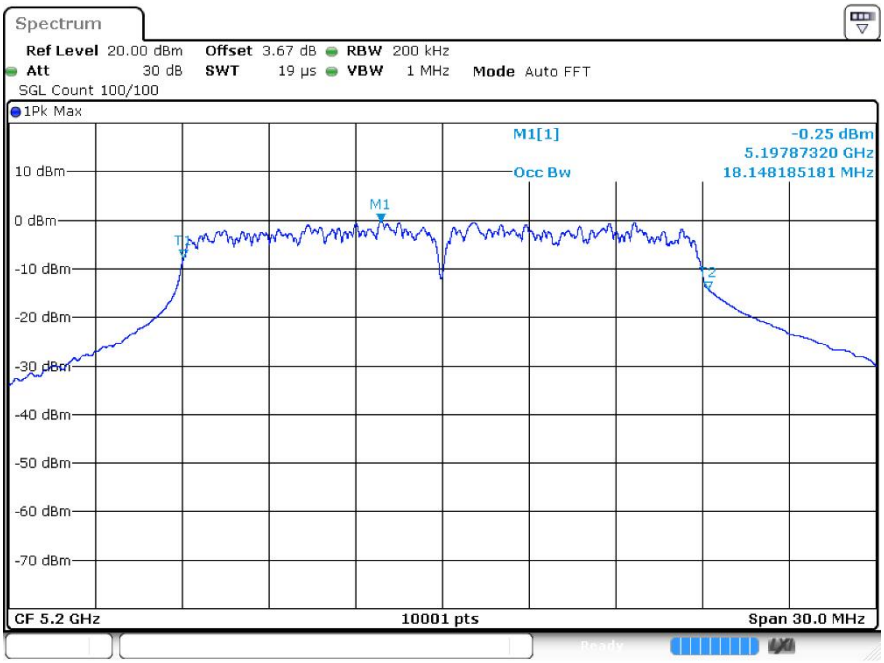
OBWn40 5230MHz Ant1



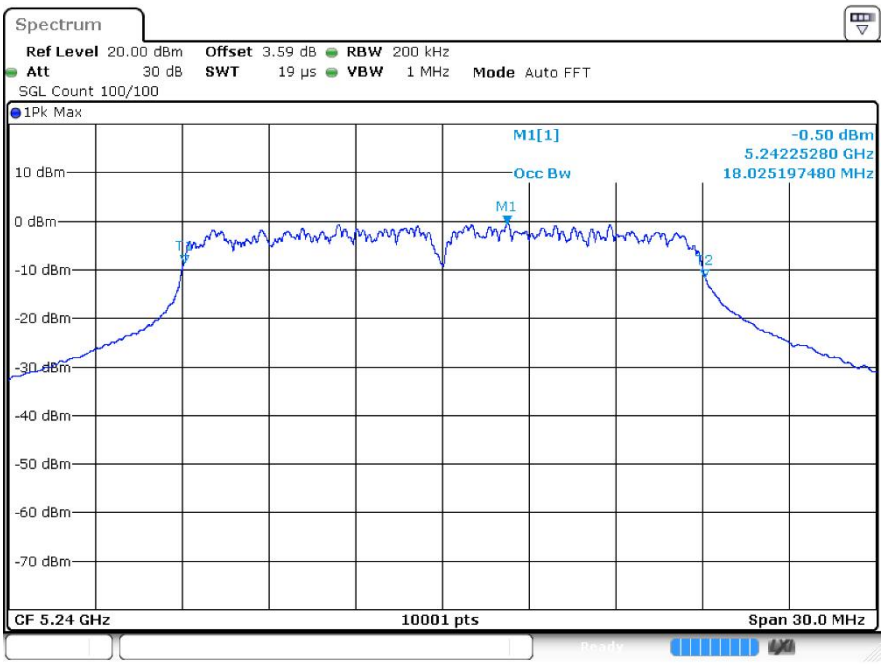
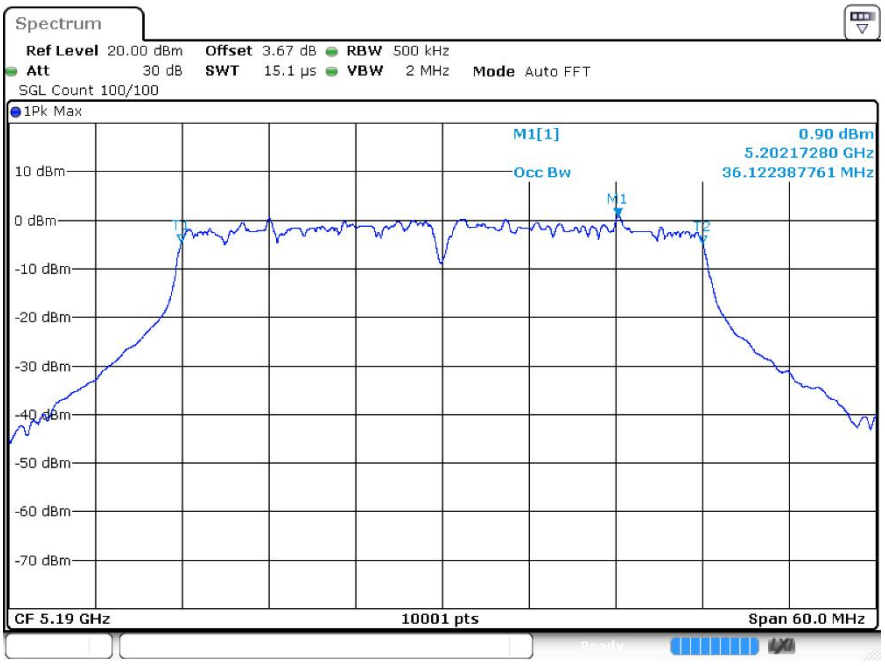
OBW ac20 5180MHz Ant1



OBW ac20 5200MHz Ant1



OBW ac20 5240MHz Ant1



OBWac40 5190MHz Ant1