



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: Tablet PC

Trade Mark: M55

Test Model: BENEVE

Environmental Conditions

Temperature:	25.8° C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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1 Duty Cycle

1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	84.77	0.72	0.2
a	5785	Ant1	93.16	0.31	0.2
a	5825	Ant1	92.75	0.33	0.2
n20	5745	Ant1	76.16	1.18	0.62
n20	5785	Ant1	89.02	0.51	0.21
n20	5825	Ant1	89.68	0.47	0.62
n40	5755	Ant1	92.44	0.34	0.22
n40	5795	Ant1	81.94	0.86	0.33
ac20	5745	Ant1	86.03	0.65	0.21
ac20	5785	Ant1	92.75	0.33	0.21
ac20	5825	Ant1	88.92	0.51	0.21
ac40	5755	Ant1	90.26	0.44	0.22
ac40	5795	Ant1	89.6	0.48	0.22
ac80	5775	Ant1	88.26	0.54	0.32

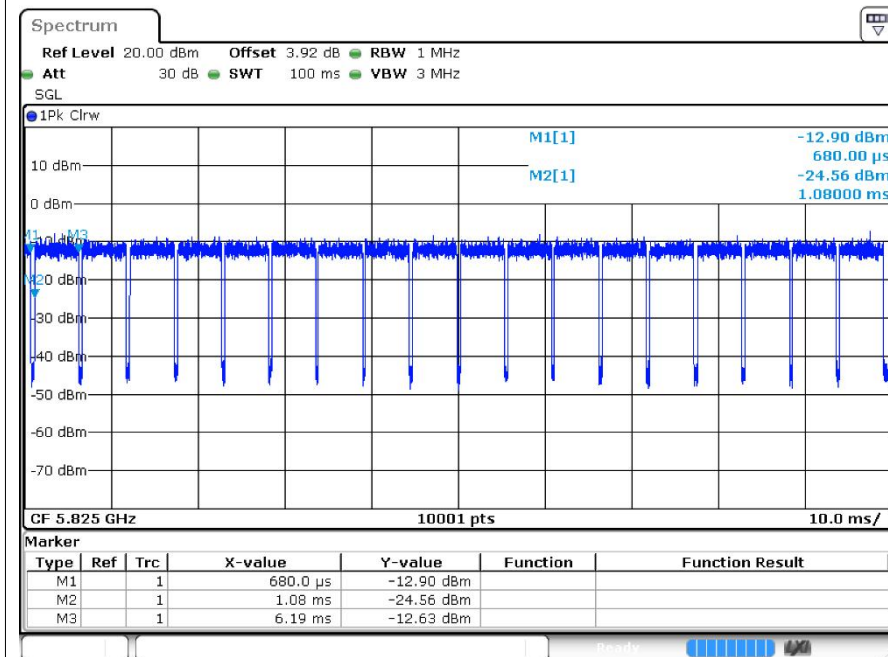


1.2 Test Graphs

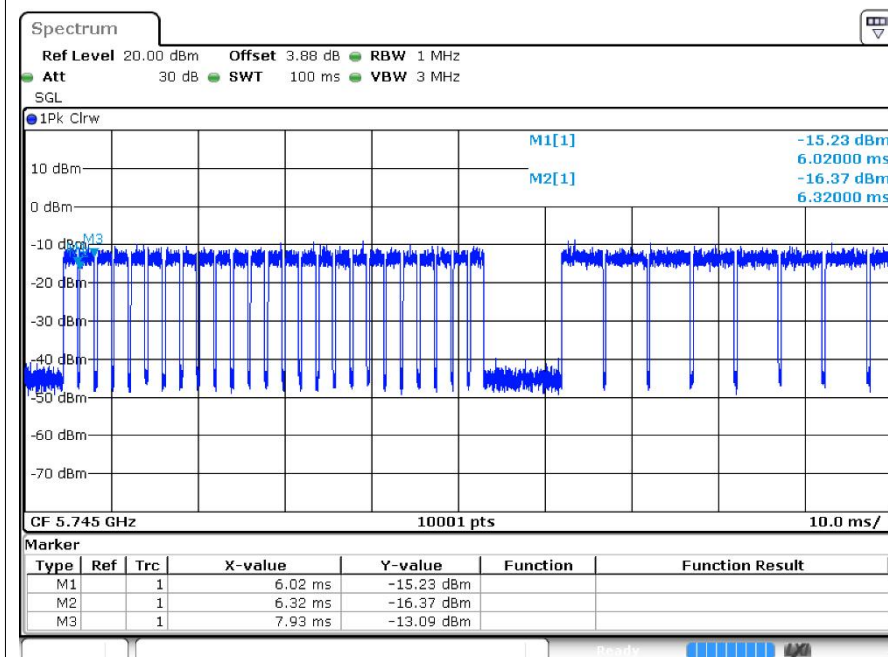


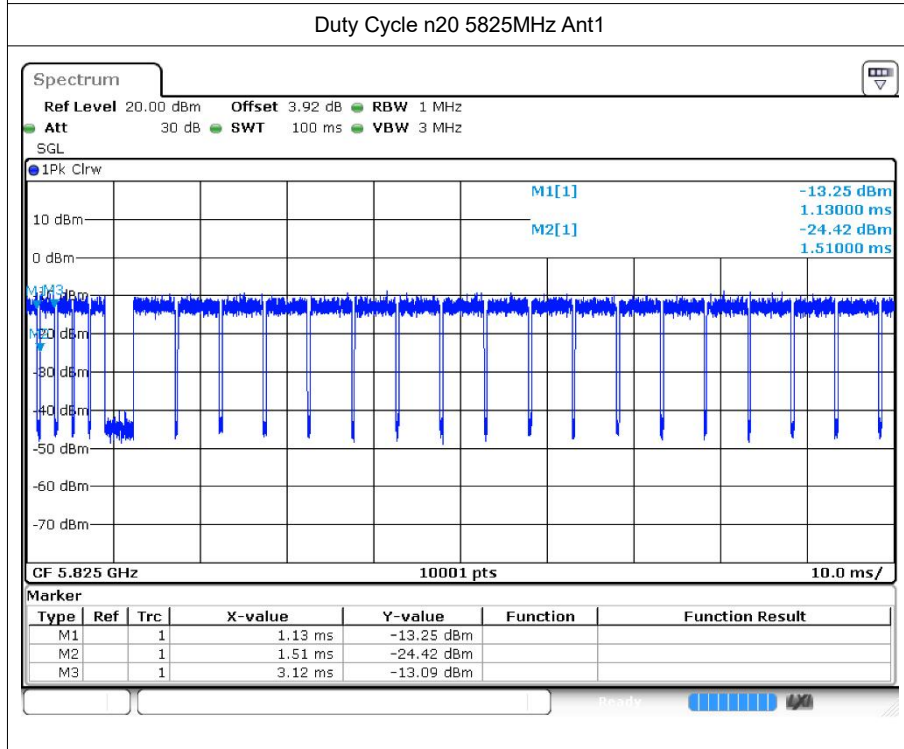
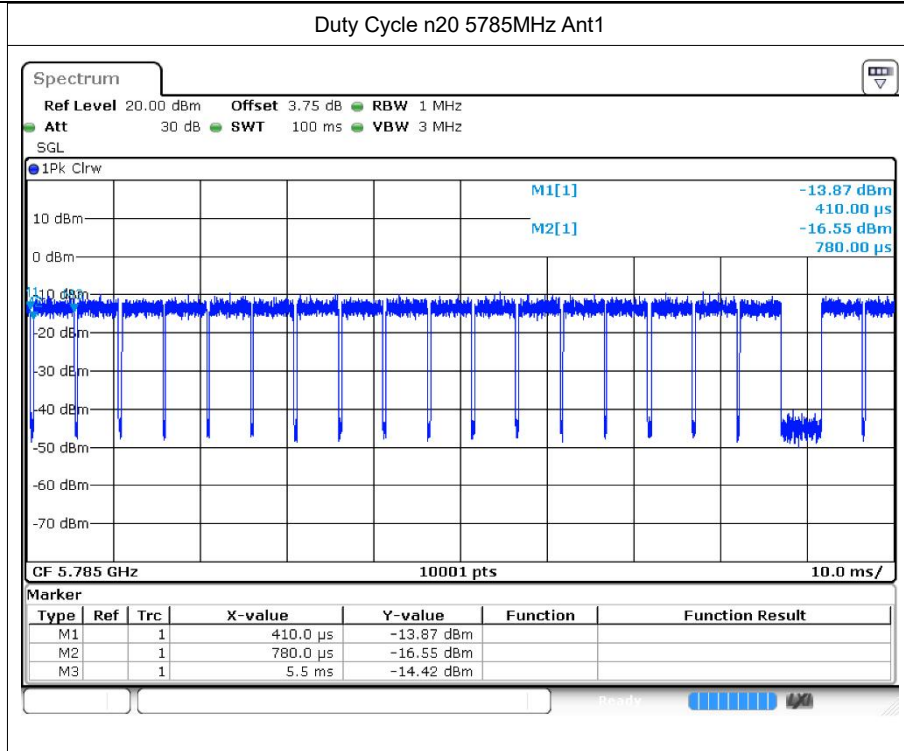


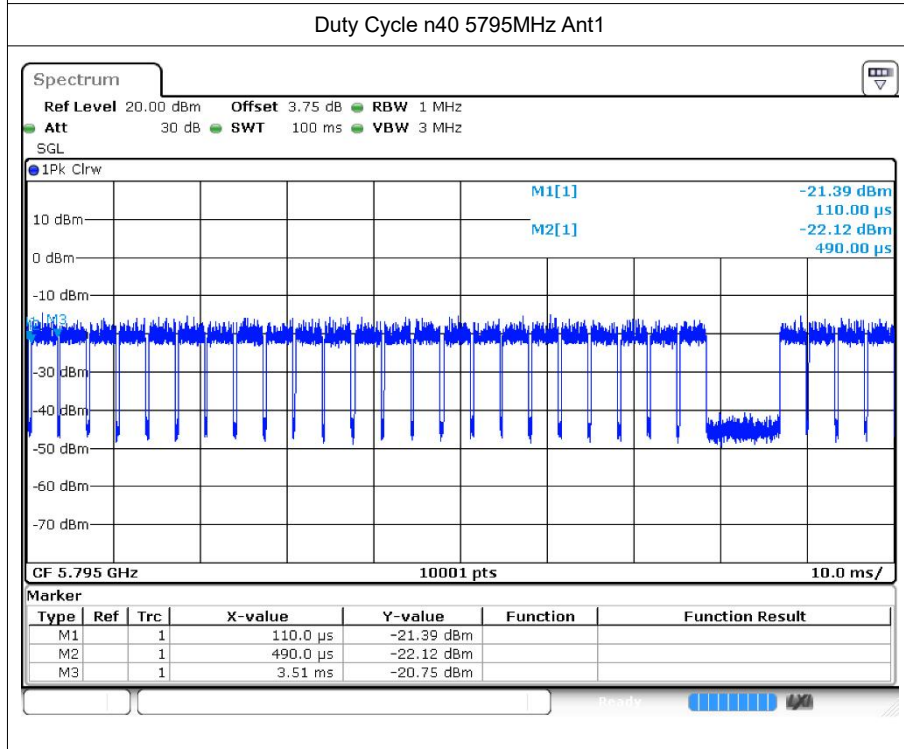
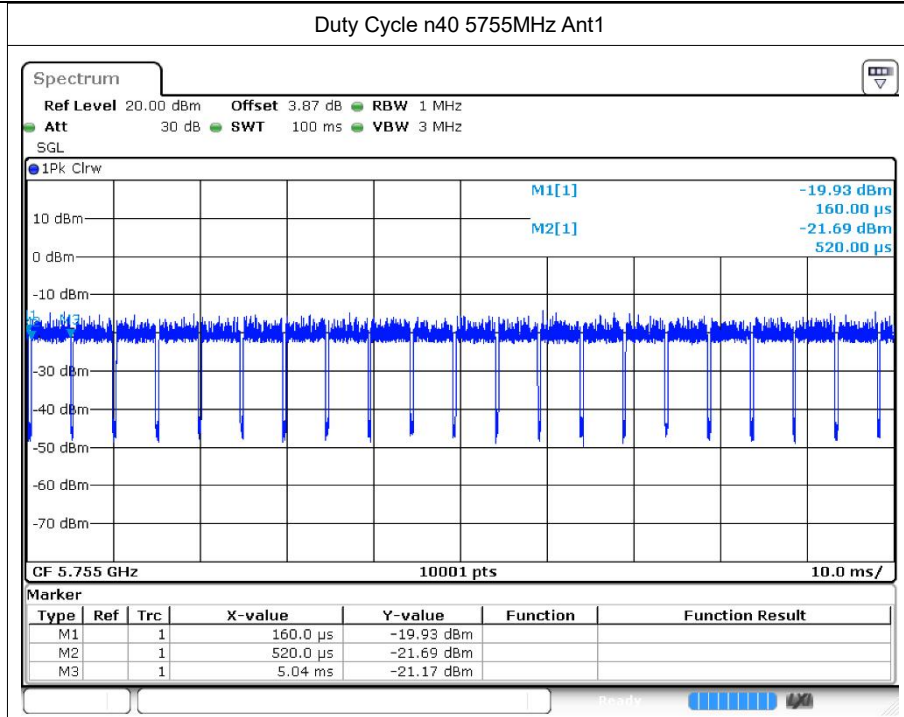
Duty Cycle a 5825MHz Ant1

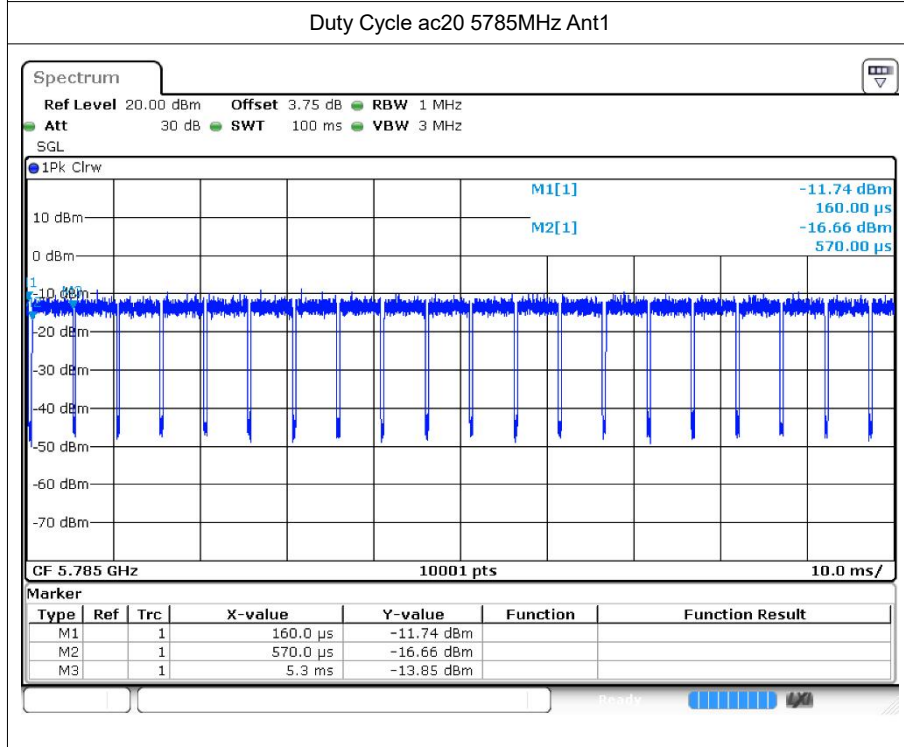
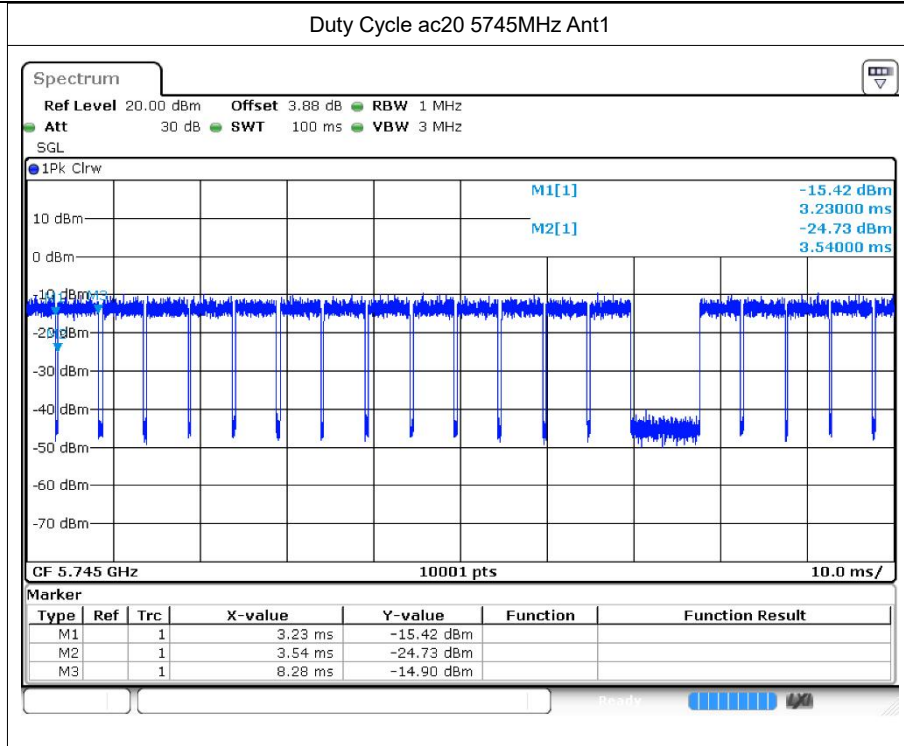


Duty Cycle n20 5745MHz Ant1



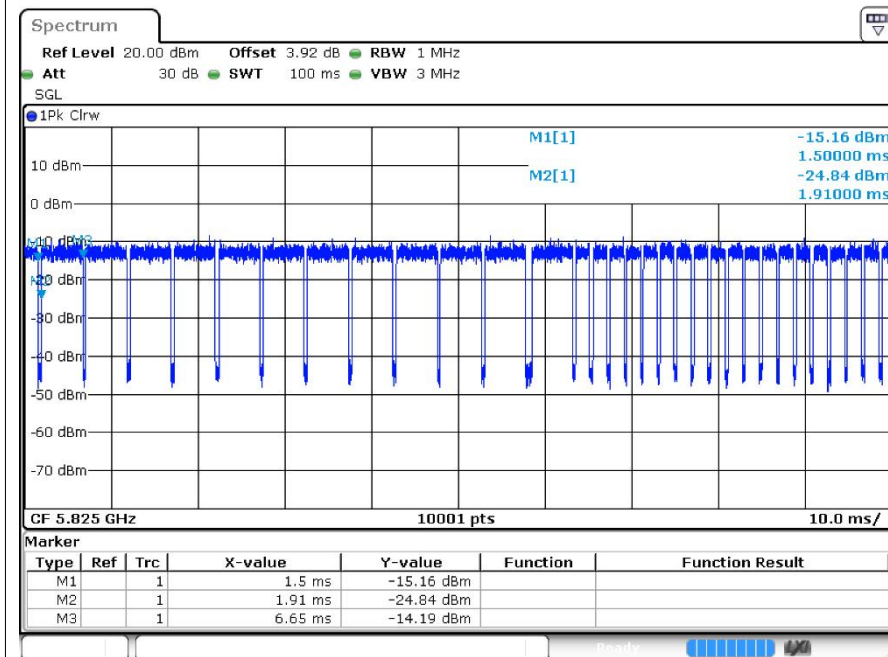




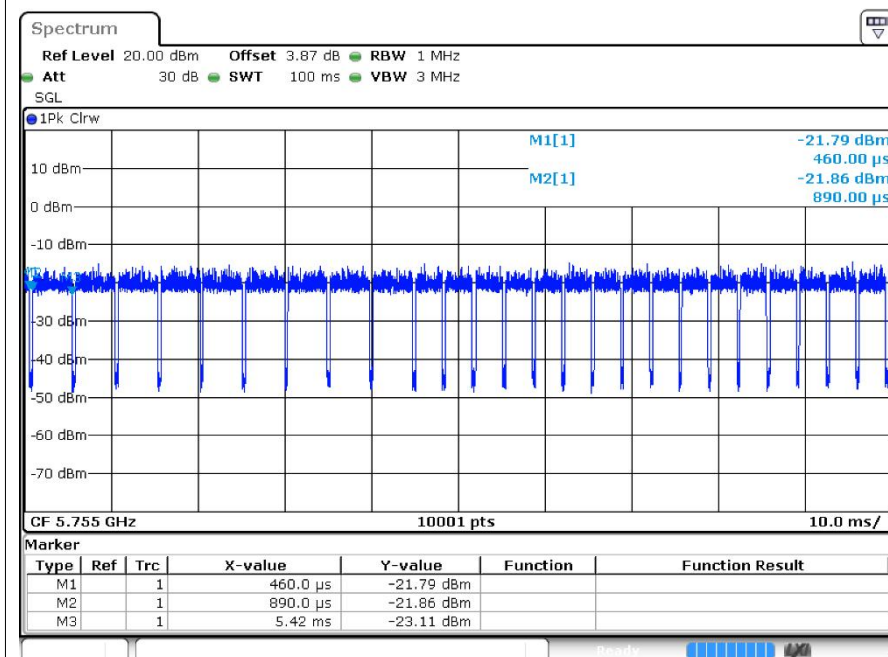


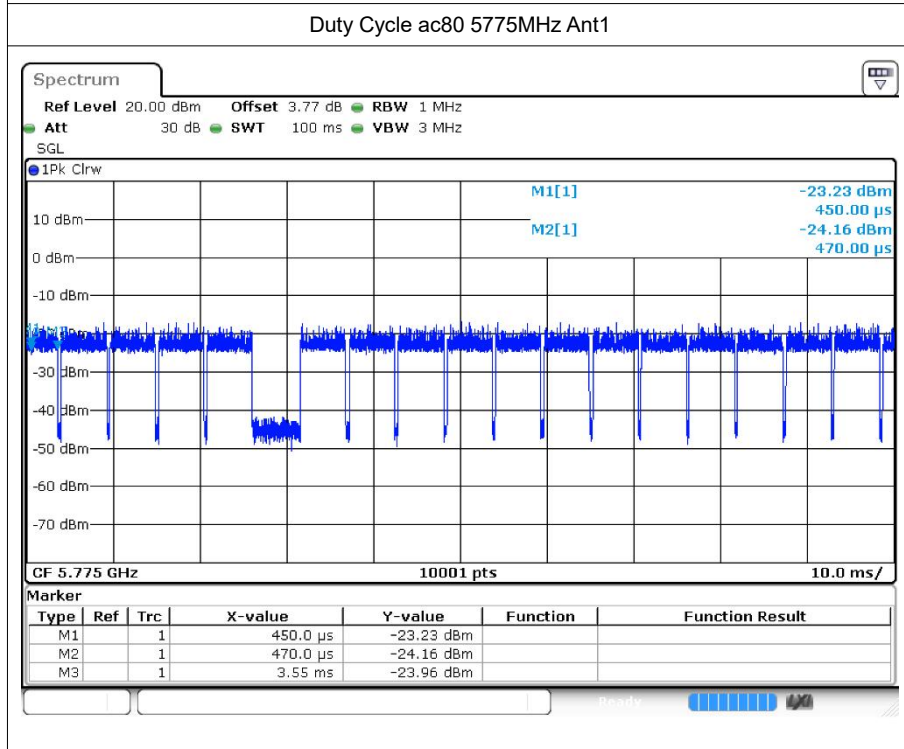
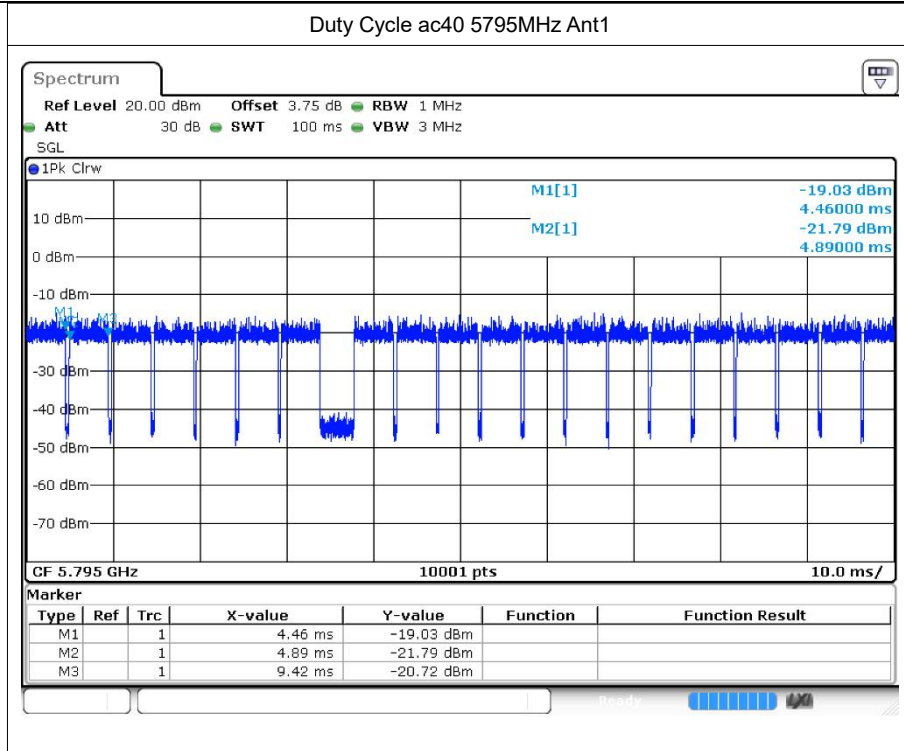


Duty Cycle ac20 5825MHz Ant1



Duty Cycle ac40 5755MHz Ant1







2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-2.22	30	Pass
a	5785	Ant1	-2.18	30	Pass
a	5825	Ant1	-1.43	30	Pass
n20	5745	Ant1	-2.54	30	Pass
n20	5785	Ant1	-2.5	30	Pass
n20	5825	Ant1	-1.85	30	Pass
n40	5755	Ant1	-2.76	30	Pass
n40	5795	Ant1	-3.26	30	Pass
ac20	5745	Ant1	-2.49	30	Pass
ac20	5785	Ant1	-2.44	30	Pass
ac20	5825	Ant1	-1.89	30	Pass
ac40	5755	Ant1	-2.71	30	Pass
ac40	5795	Ant1	-3.19	30	Pass
ac80	5775	Ant1	-3.01	30	Pass



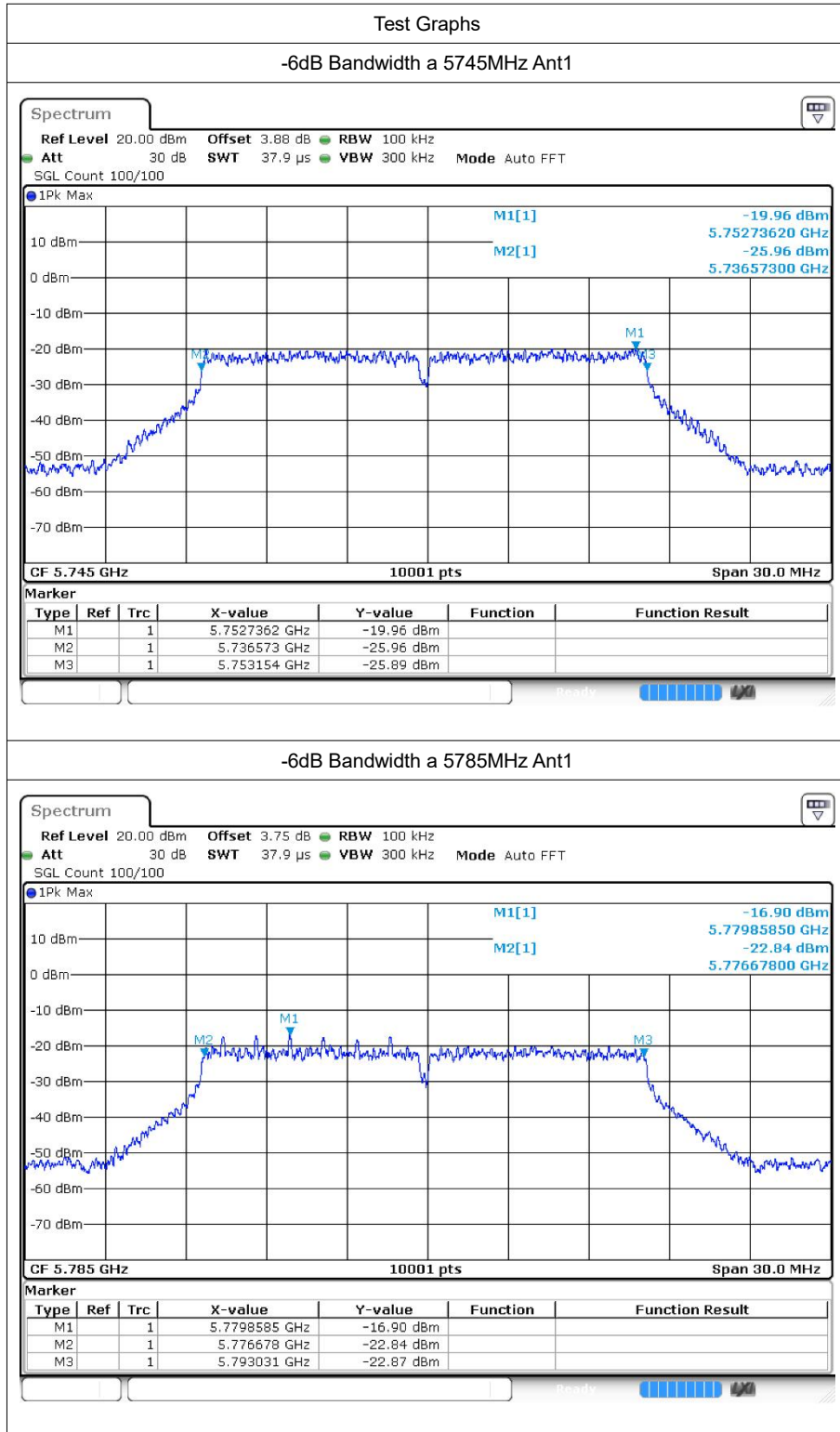
3 -6dB Bandwidth

3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.581	0.5	Pass
a	5785	Ant1	16.353	0.5	Pass
a	5825	Ant1	16.572	0.5	Pass
n20	5745	Ant1	17.787	0.5	Pass
n20	5785	Ant1	17.604	0.5	Pass
n20	5825	Ant1	17.772	0.5	Pass
n40	5755	Ant1	36.552	0.5	Pass
n40	5795	Ant1	36.444	0.5	Pass
ac20	5745	Ant1	17.691	0.5	Pass
ac20	5785	Ant1	17.682	0.5	Pass
ac20	5825	Ant1	17.823	0.5	Pass
ac40	5755	Ant1	36.54	0.5	Pass
ac40	5795	Ant1	36.348	0.5	Pass
ac80	5775	Ant1	75.108	0.5	Pass

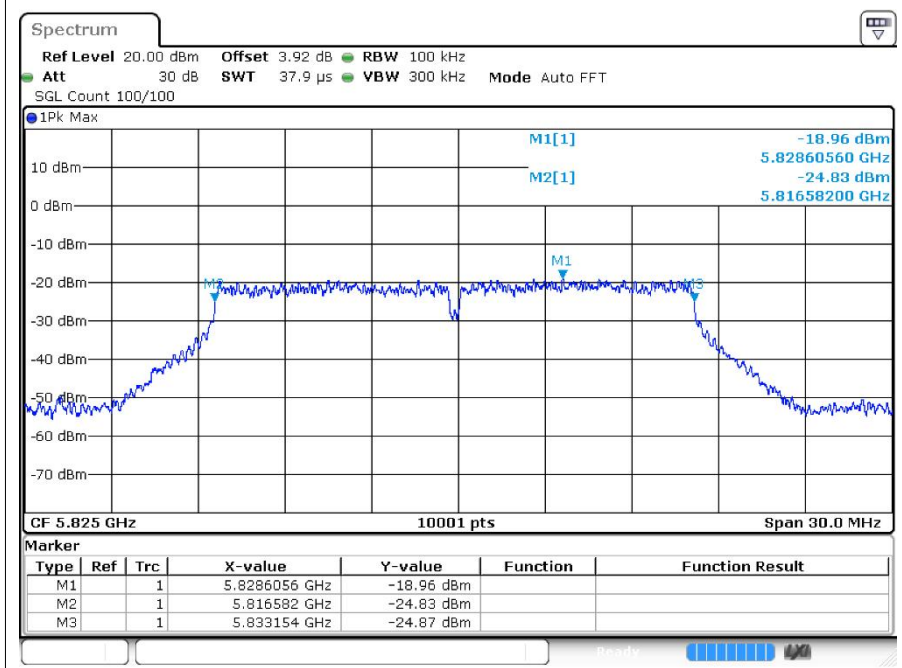


3.2 Test Graphs

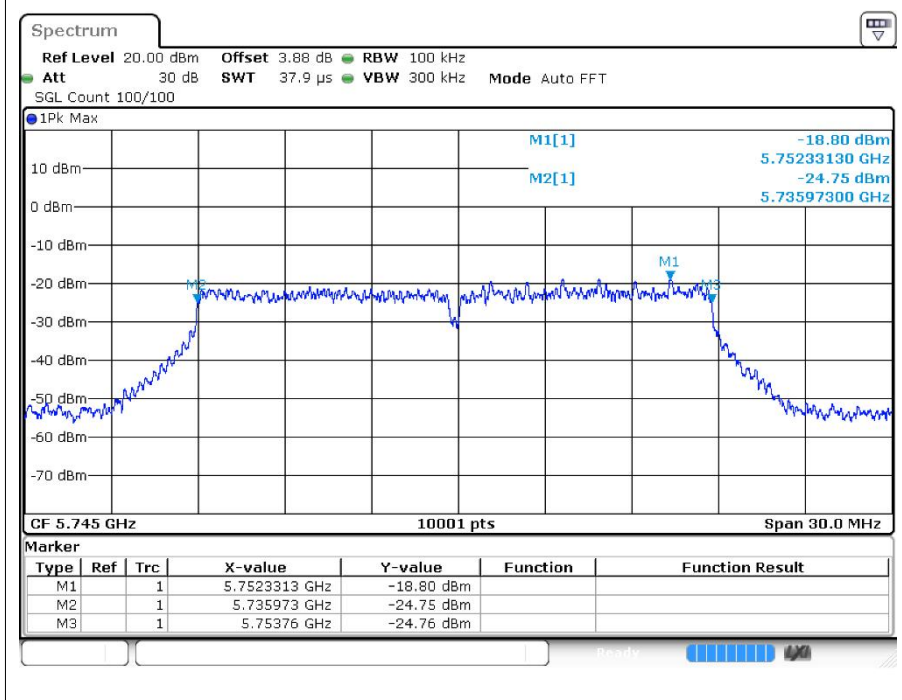




-6dB Bandwidth a 5825MHz Ant1

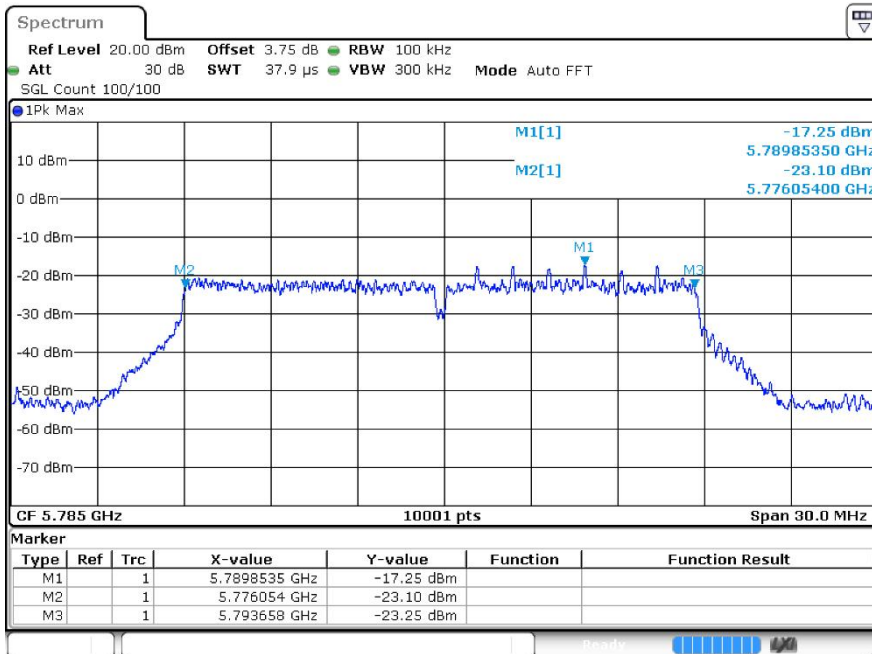


-6dB Bandwidth n20 5745MHz Ant1

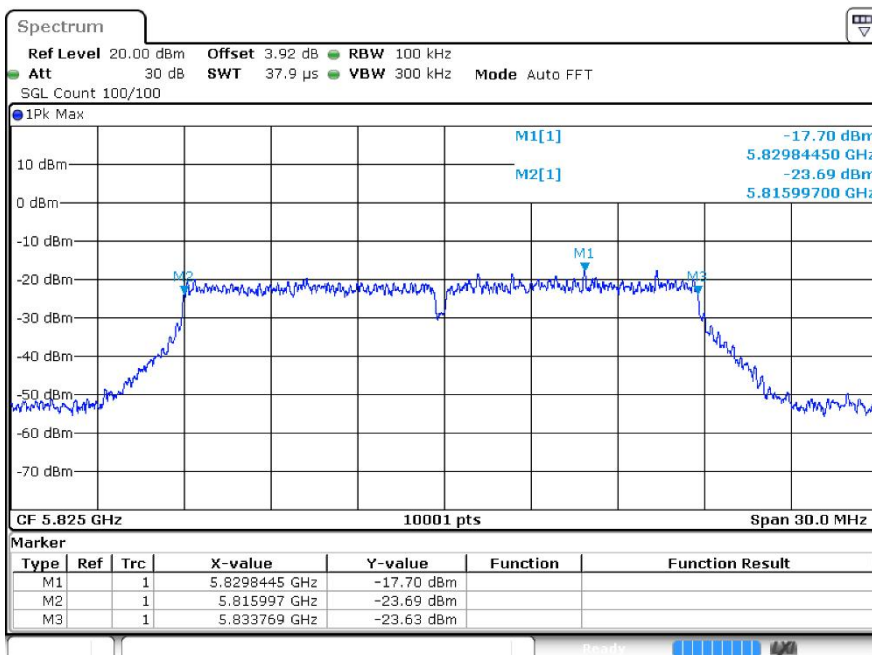




-6dB Bandwidth n20 5785MHz Ant1

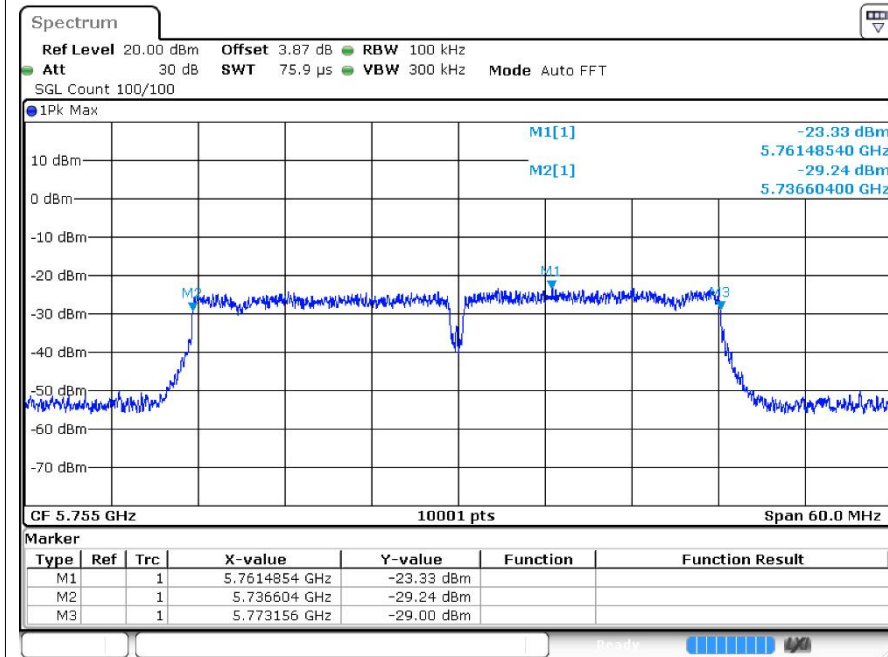


-6dB Bandwidth n20 5825MHz Ant1

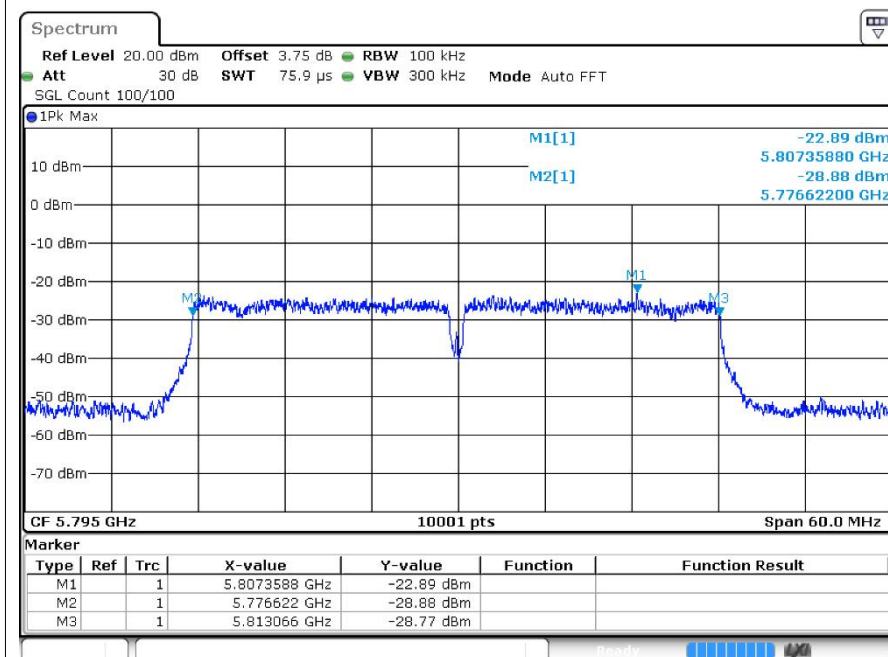




-6dB Bandwidth n40 5755MHz Ant1

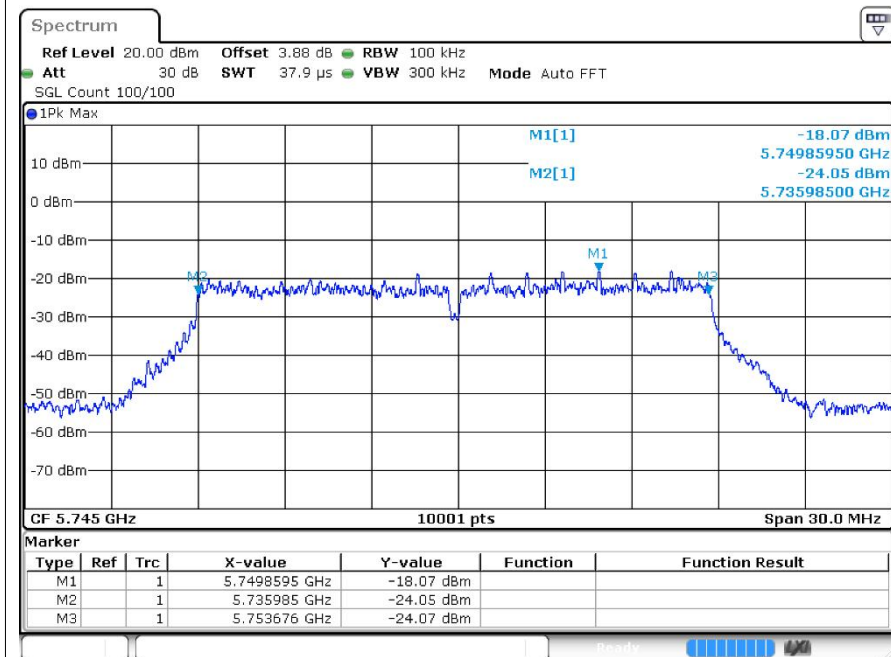


-6dB Bandwidth n40 5795MHz Ant1

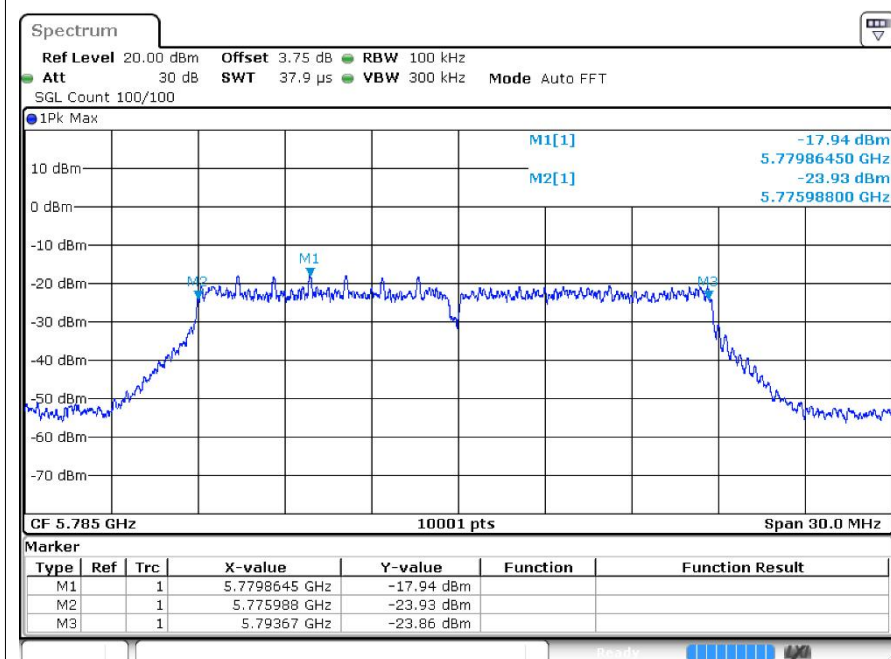


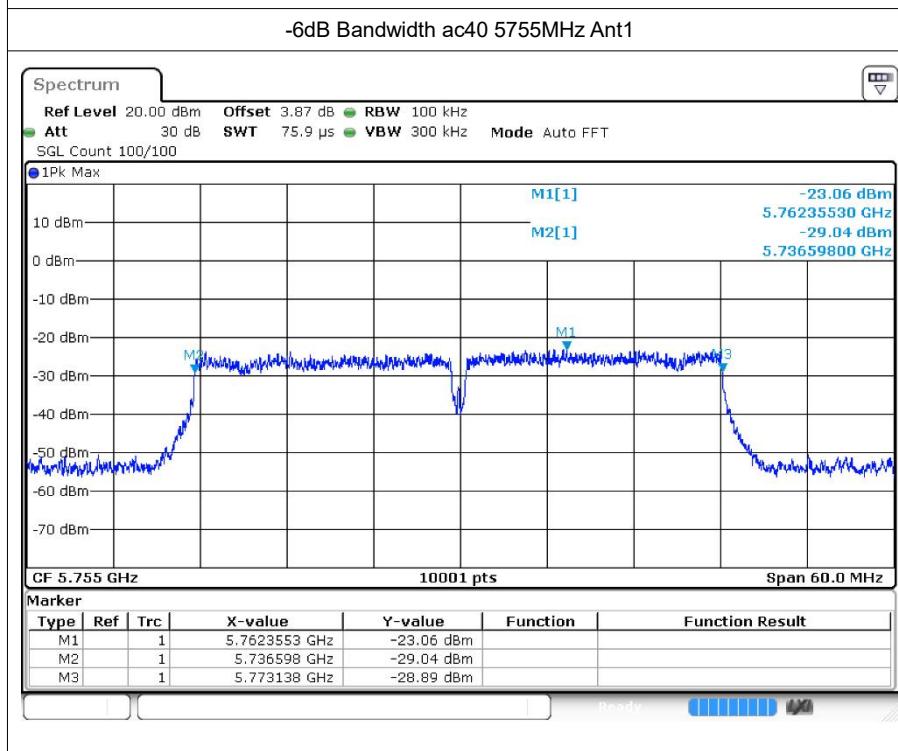
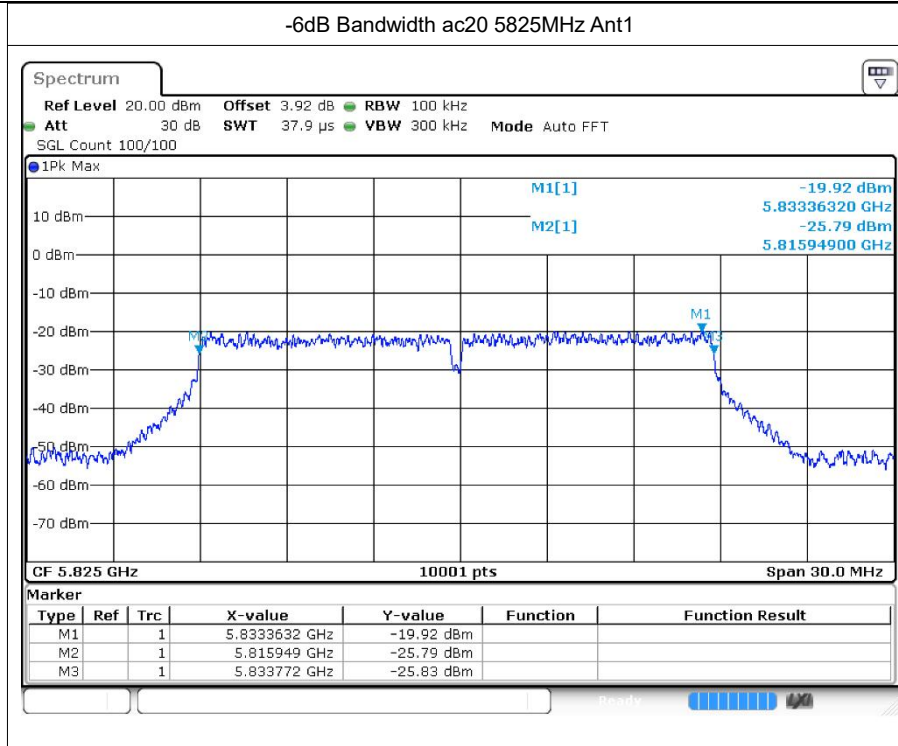


-6dB Bandwidth ac20 5745MHz Ant1



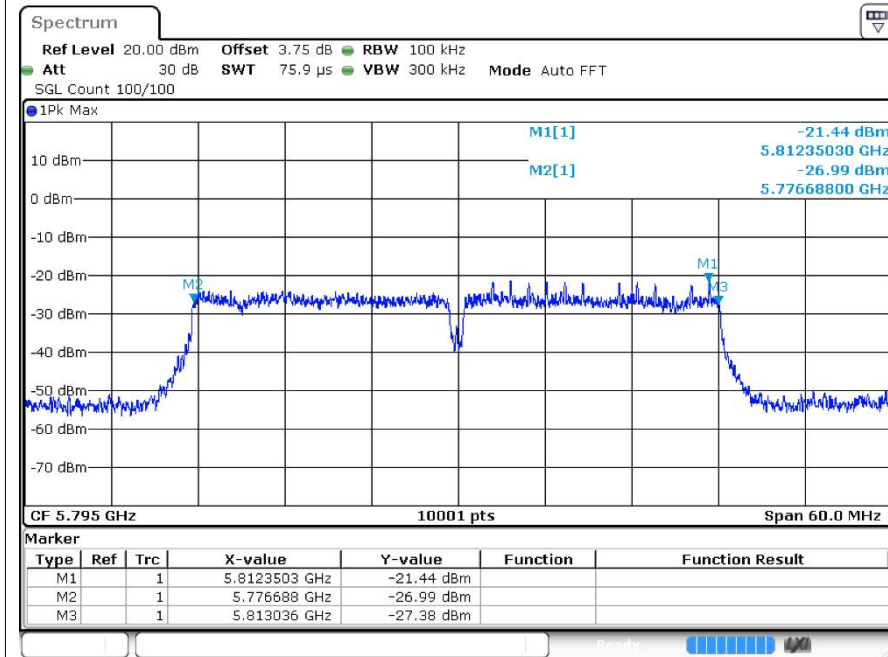
-6dB Bandwidth ac20 5785MHz Ant1



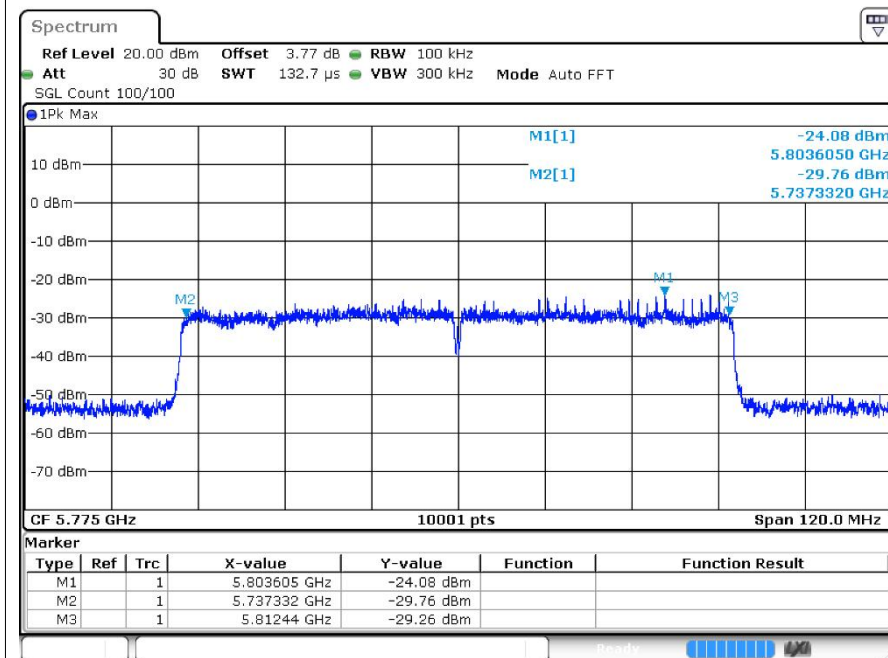




-6dB Bandwidth ac40 5795MHz Ant1



-6dB Bandwidth ac80 5775MHz Ant1





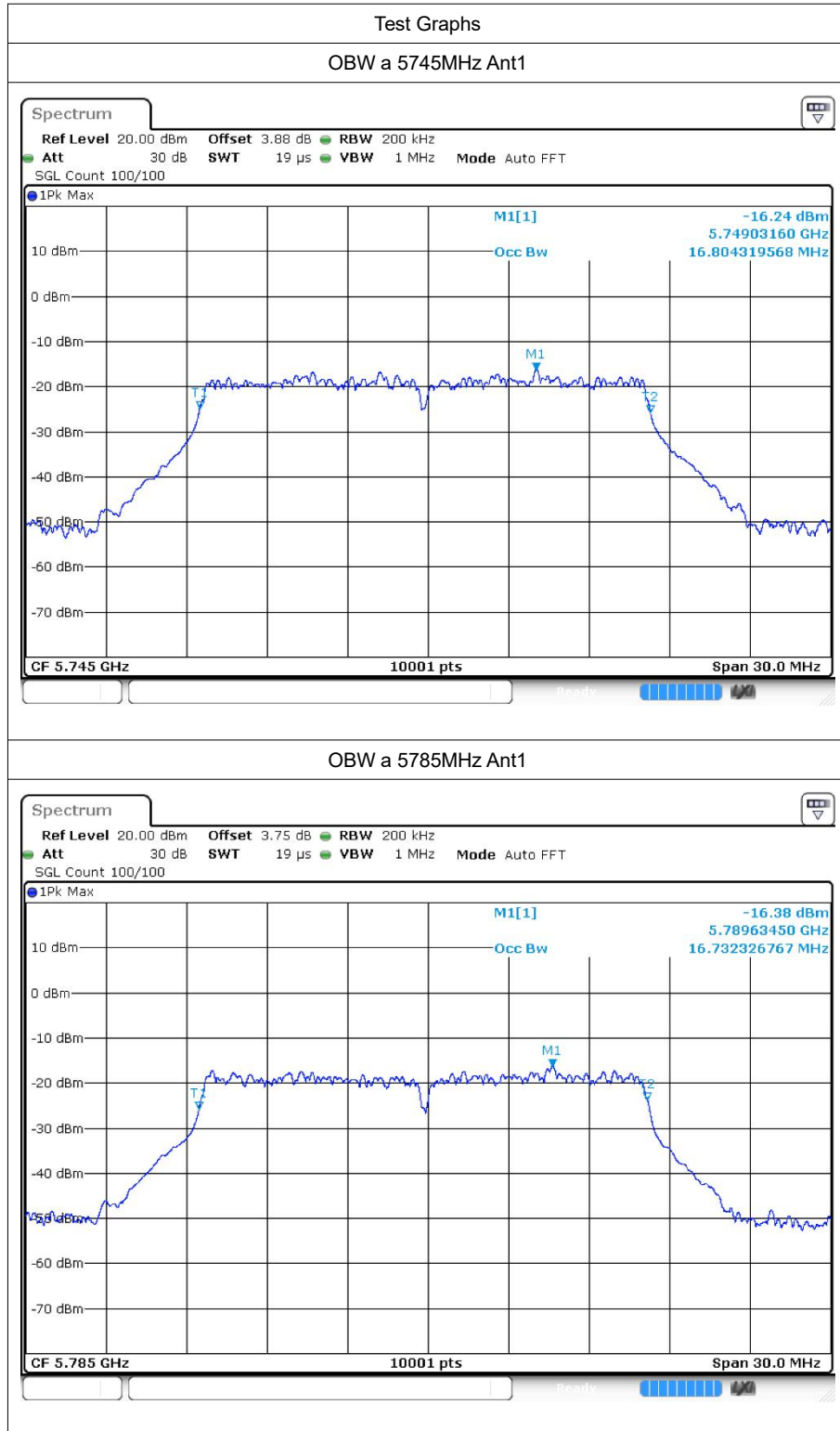
4 Occupied Channel Bandwidth

4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.804
a	5785	Ant1	16.732
a	5825	Ant1	17.209
n20	5745	Ant1	18.031
n20	5785	Ant1	17.773
n20	5825	Ant1	17.962
n40	5755	Ant1	36.434
n40	5795	Ant1	36.392
ac20	5745	Ant1	17.944
ac20	5785	Ant1	17.935
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ac40	5755	Ant1	36.614
ac40	5795	Ant1	36.53
ac80	5775	Ant1	75.46

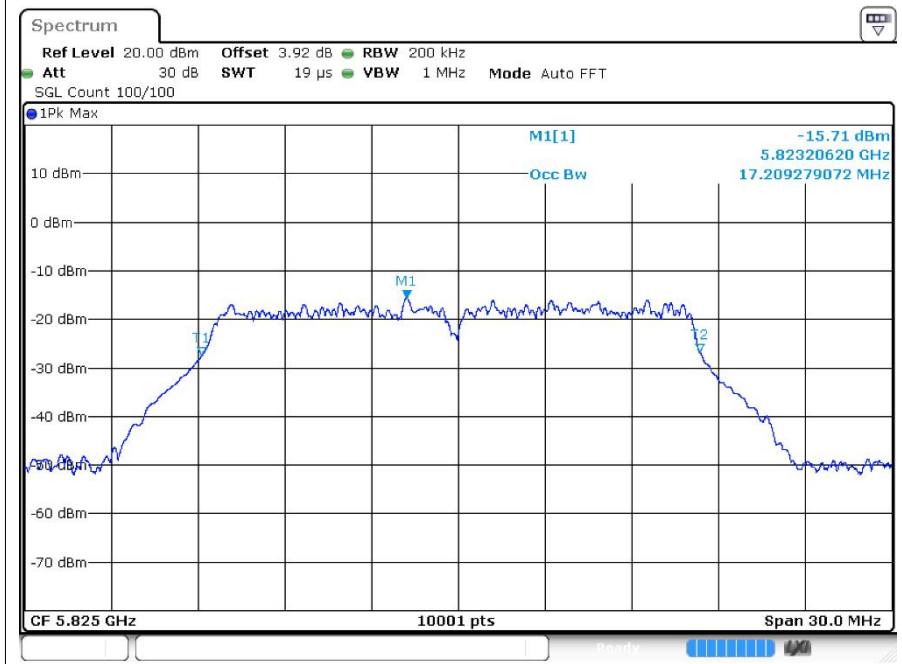


4.2 Test Graphs

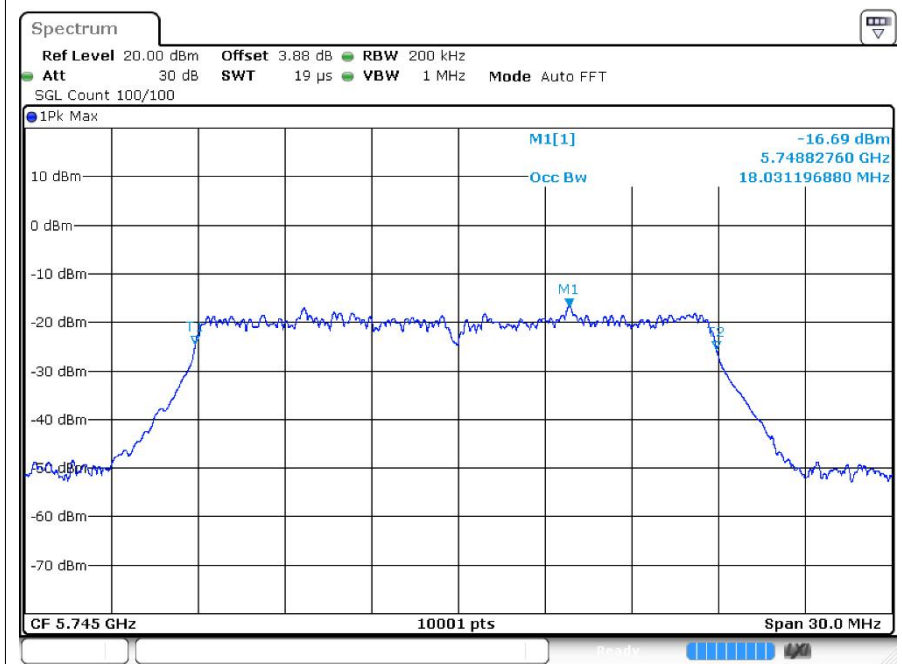




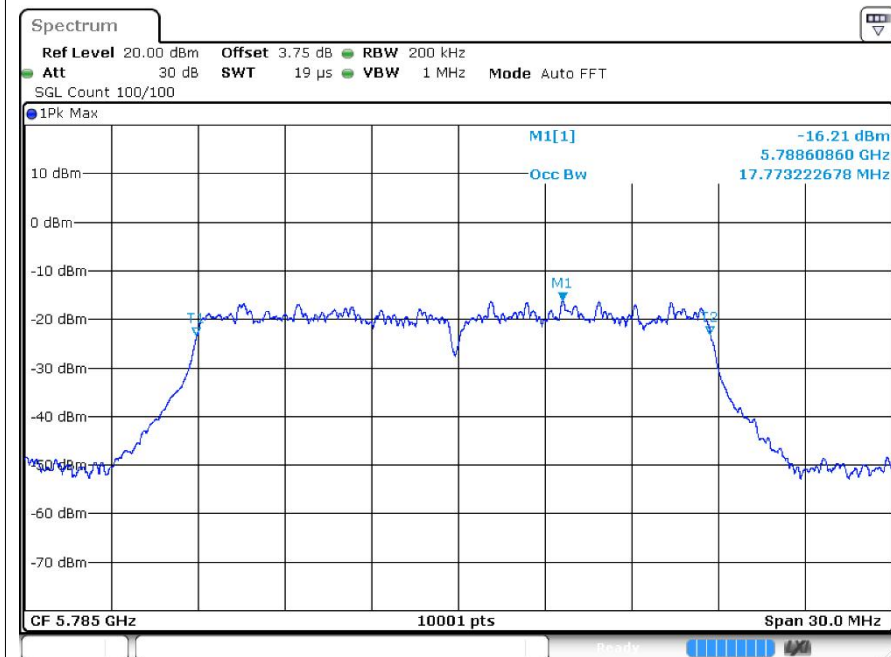
OBW a 5825MHz Ant1



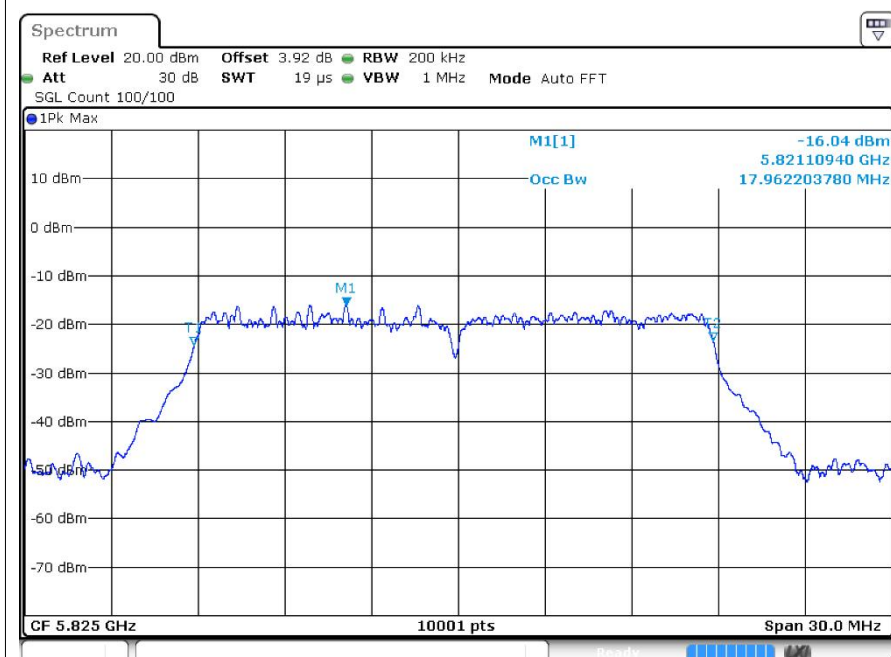
OBW n20 5745MHz Ant1



OBW n20 5785MHz Ant1

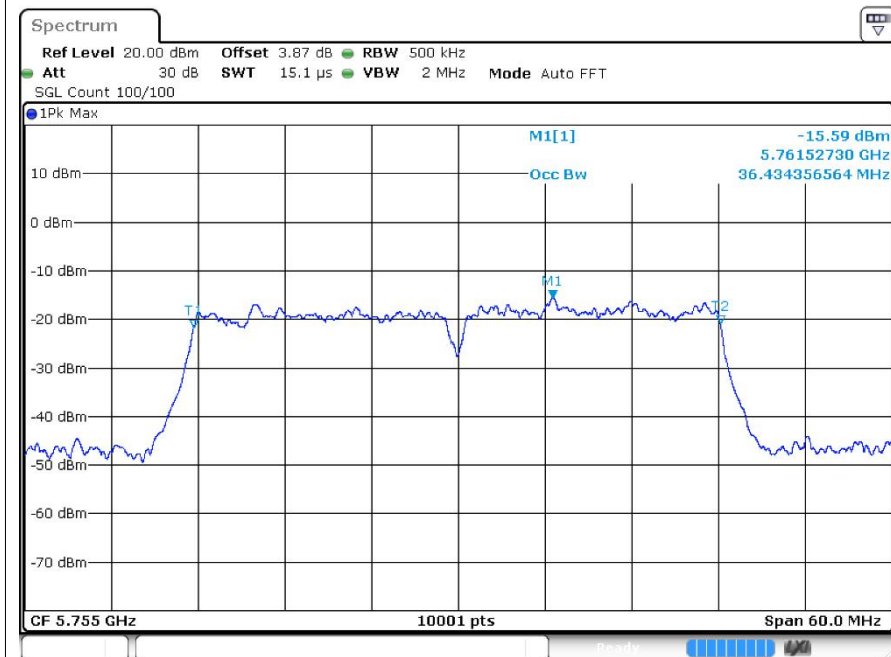


OBW n20 5825MHz Ant1

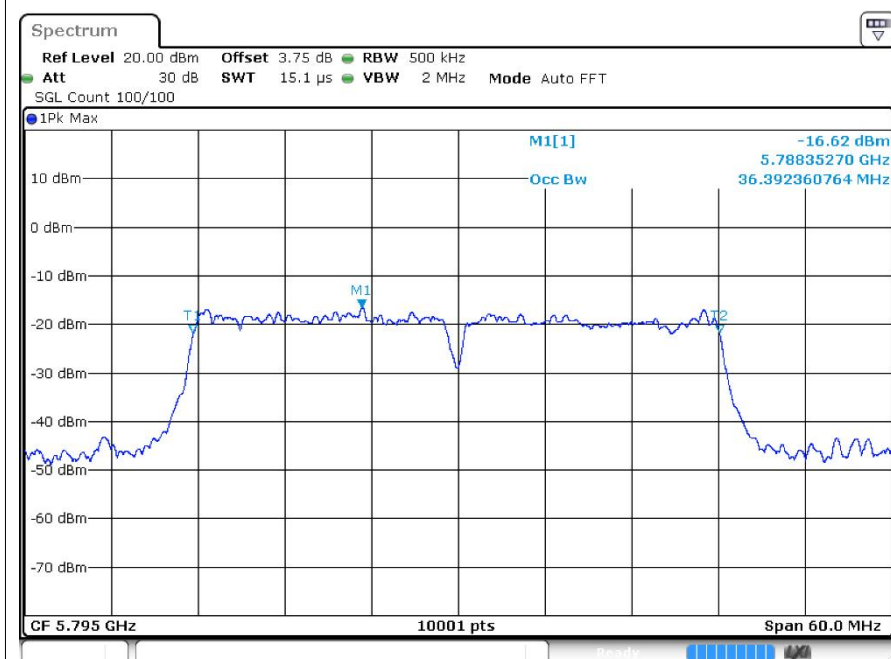




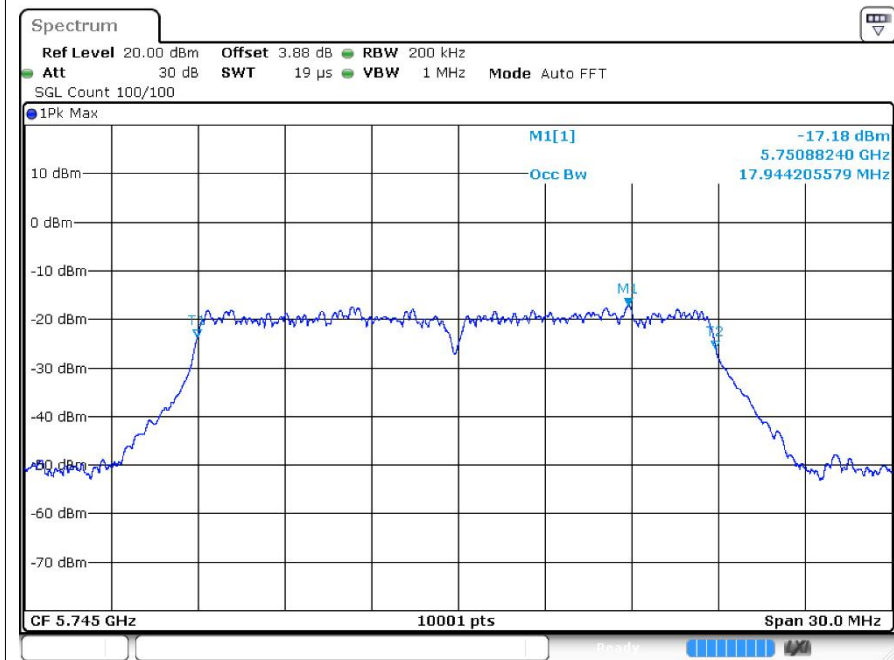
OBW n40 5755MHz Ant1



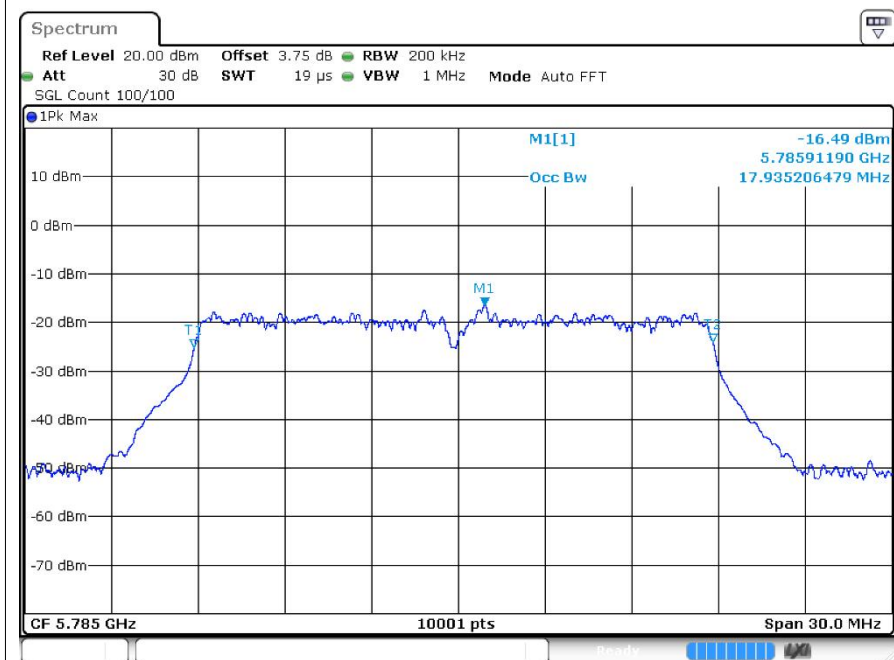
OBW n40 5795MHz Ant1



OBW ac20 5745MHz Ant1

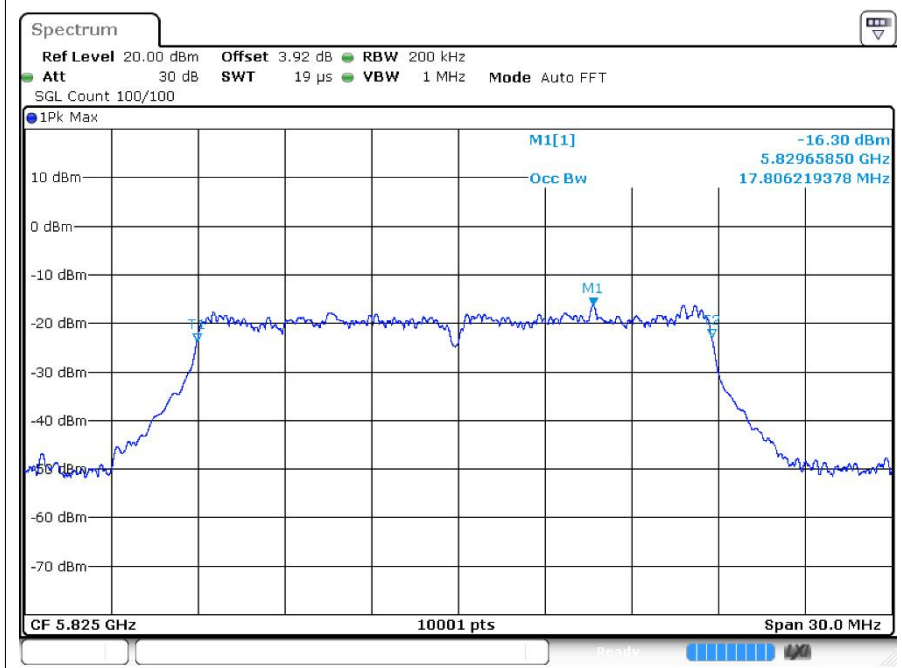


OBW ac20 5785MHz Ant1

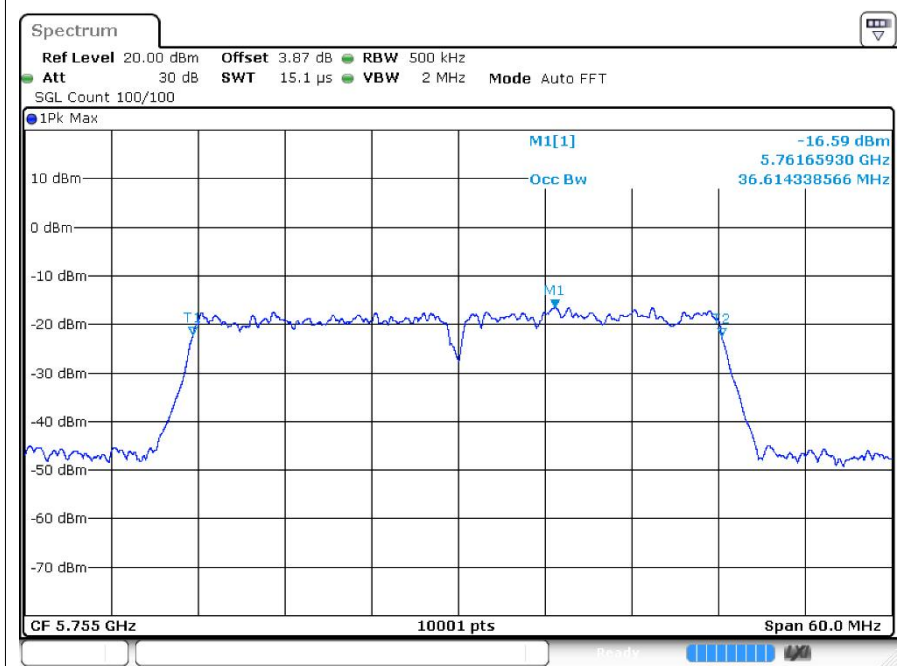




OBW ac20 5825MHz Ant1

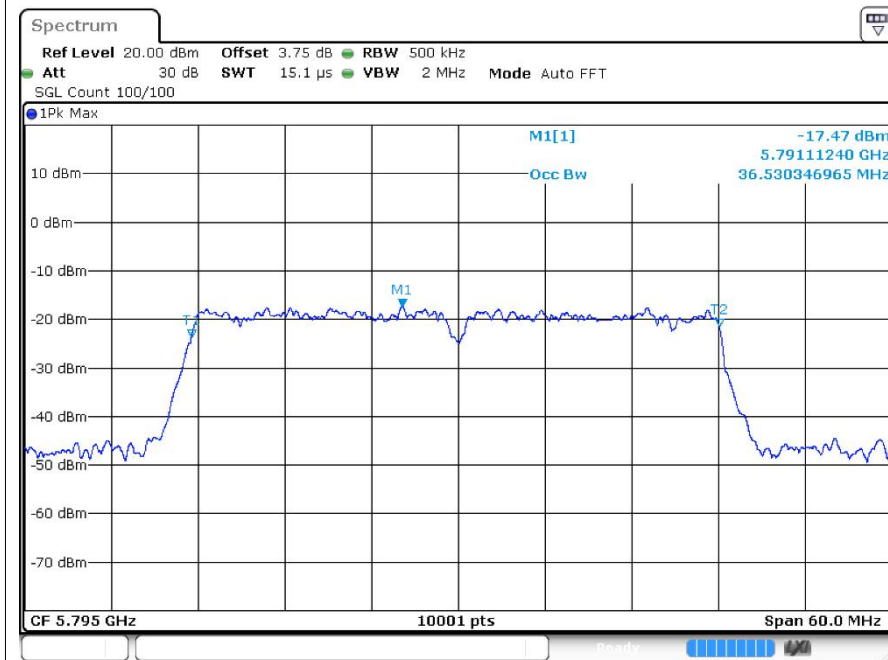


OBW ac40 5755MHz Ant1

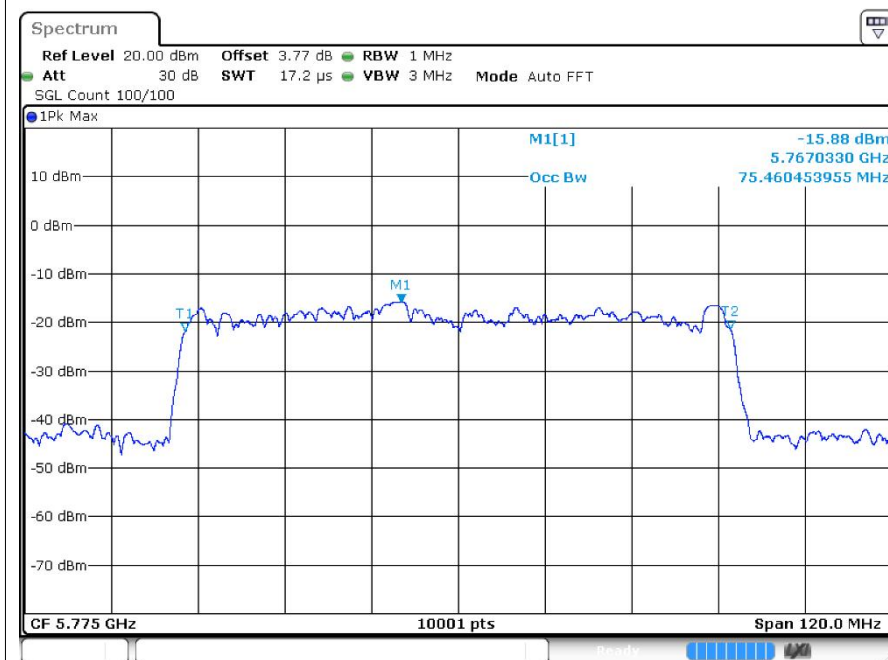




OBW ac40 5795MHz Ant1



OBW ac80 5775MHz 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	5745	Ant1	-19.64	0.72	-18.92	30	Pass
a	5785	Ant1	-19.46	0.31	-19.15	30	Pass
a	5825	Ant1	-18.72	0.33	-18.39	30	Pass
n20	5745	Ant1	-20.45	1.18	-19.27	30	Pass
n20	5785	Ant1	-20.17	0.51	-19.66	30	Pass
n20	5825	Ant1	-19.76	0.47	-19.29	30	Pass
n40	5755	Ant1	-23.54	0.34	-23.2	30	Pass
n40	5795	Ant1	-23.96	0.86	-23.1	30	Pass
ac20	5745	Ant1	-20.69	0.65	-20.04	30	Pass
ac20	5785	Ant1	-20.41	0.33	-20.08	30	Pass
ac20	5825	Ant1	-19.68	0.51	-19.17	30	Pass
ac40	5755	Ant1	-23.3	0.44	-22.86	30	Pass
ac40	5795	Ant1	-23.64	0.48	-23.16	30	Pass
ac80	5775	Ant1	-26.75	0.54	-26.21	30	Pass



5.2 Test Graphs

