



Appendix RF test data for 5G WIFI (Conducted Measurement)

Product Name: car player

Trade Mark: N/A

Test Model: 5003W

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Aalen.Ye
Supervised by:	Allen Wang



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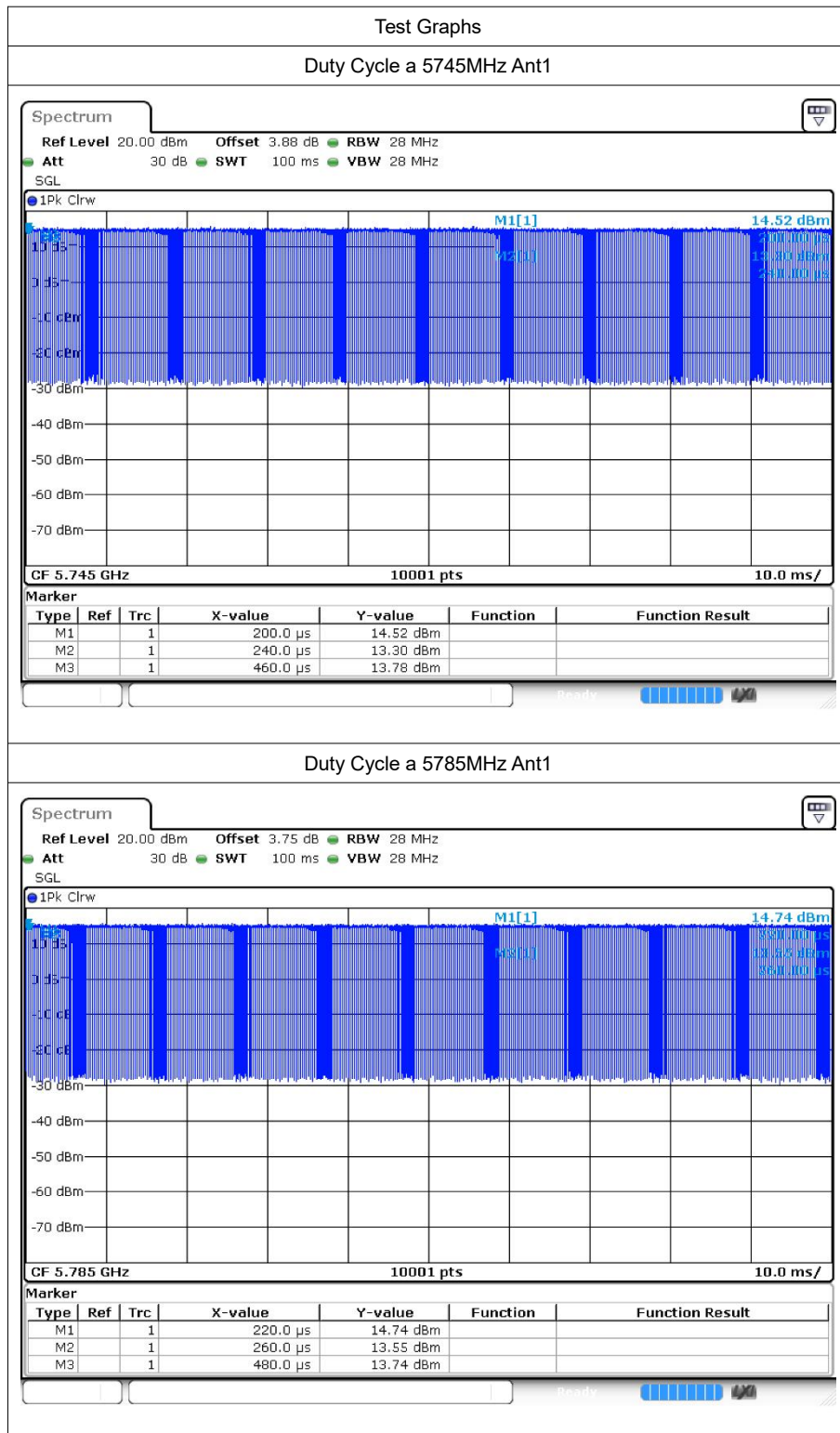


1 Duty Cycle

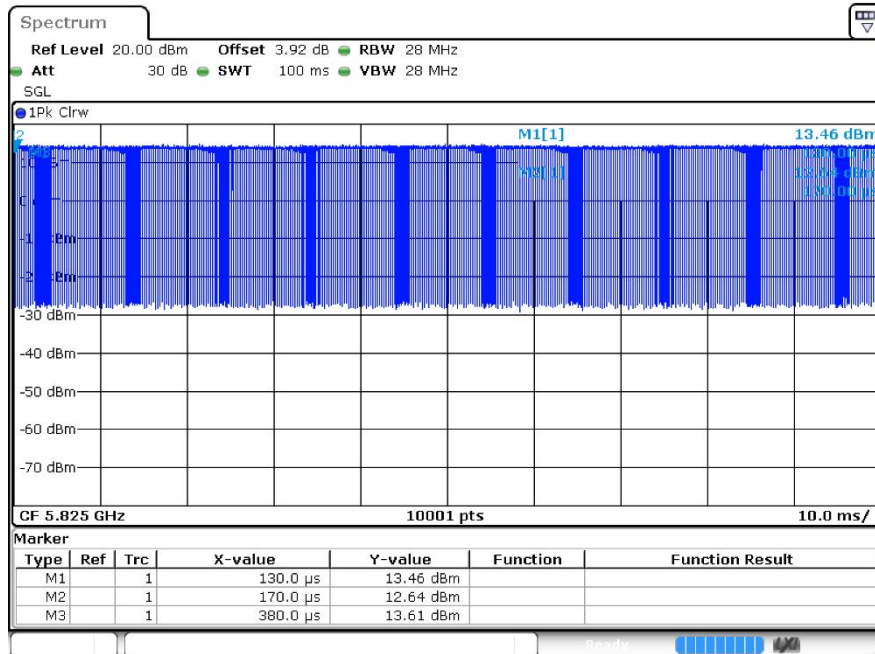
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.8	0.61	4.55
a	5785	Ant1	86.79	0.62	4.55
a	5825	Ant1	86.93	0.61	4.76
n20	5745	Ant1	87.5	0.58	4.35
n20	5785	Ant1	87.54	0.58	4.35
n20	5825	Ant1	87.67	0.57	4.17
n40	5755	Ant1	86.89	0.61	4.55
n40	5795	Ant1	86.98	0.61	4.35
ac20	5745	Ant1	87.17	0.6	4.55
ac20	5785	Ant1	87.16	0.6	4.55
ac20	5825	Ant1	87.26	0.59	4.55
ac40	5755	Ant1	86.43	0.63	2.63
ac40	5795	Ant1	86.42	0.63	2.63
ax20	5745	Ant1	86.37	0.64	2.56
ax20	5785	Ant1	86.36	0.64	2.63
ax20	5825	Ant1	86.51	0.63	2.56
ax40	5755	Ant1	86.56	0.63	2.63
ax40	5795	Ant1	86.41	0.63	2.63

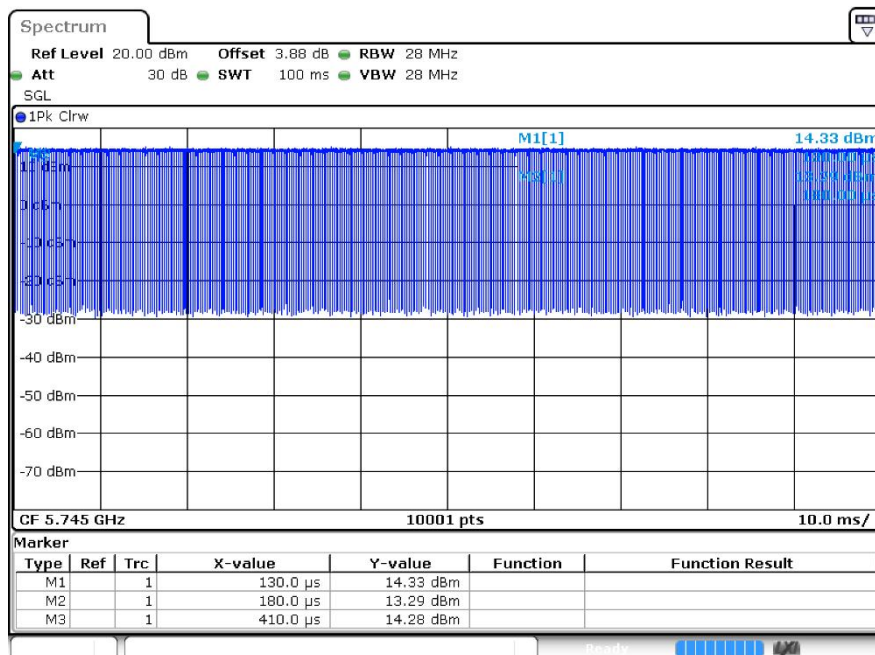
1.2 Test Graphs

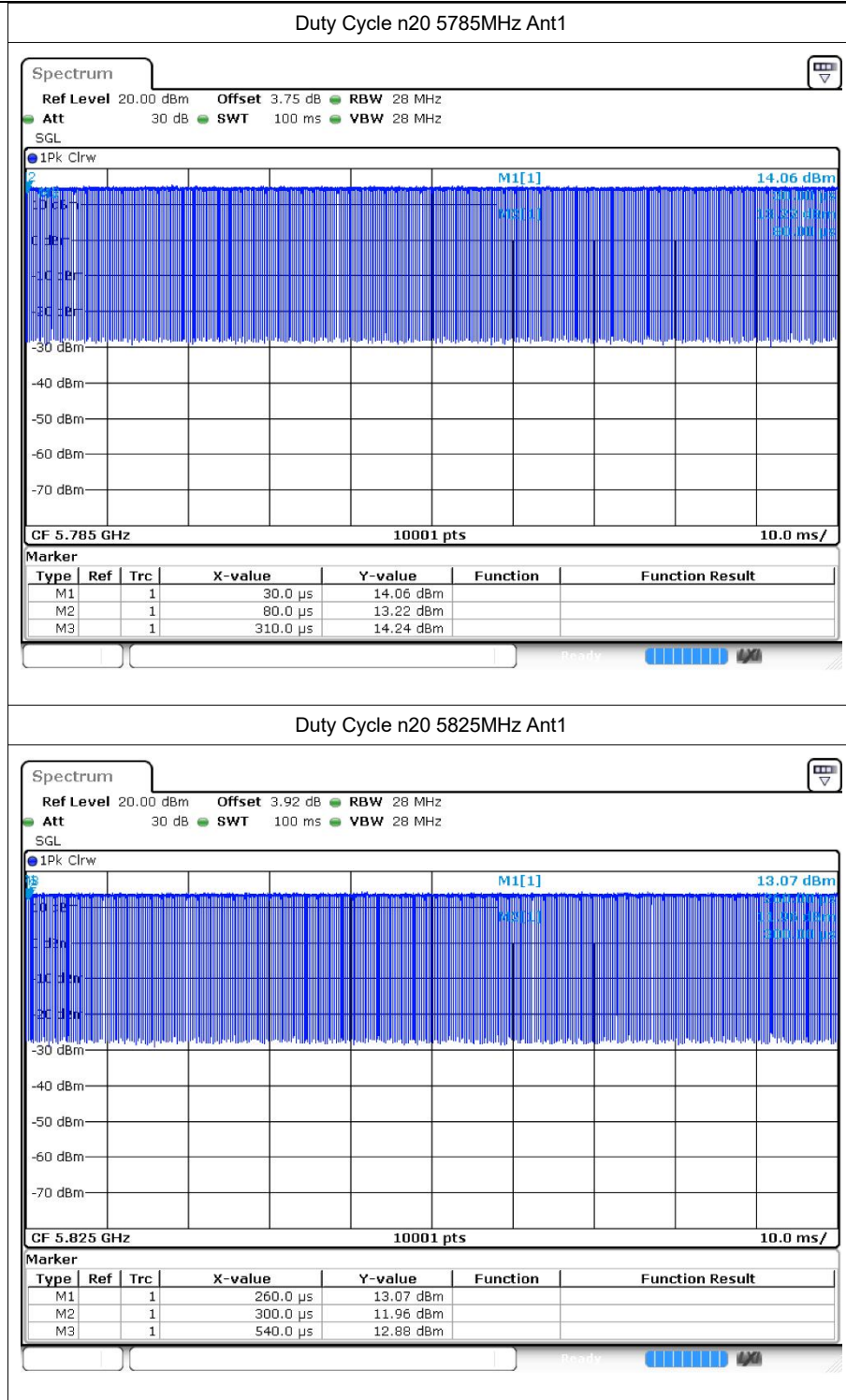


Duty Cycle a 5825MHz Ant1

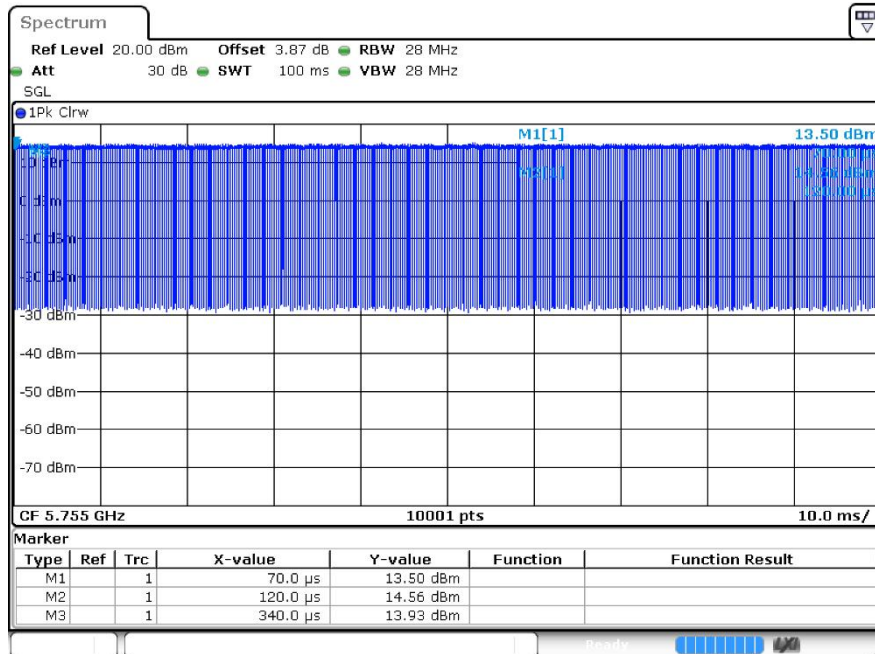


Duty Cycle n20 5745MHz Ant1

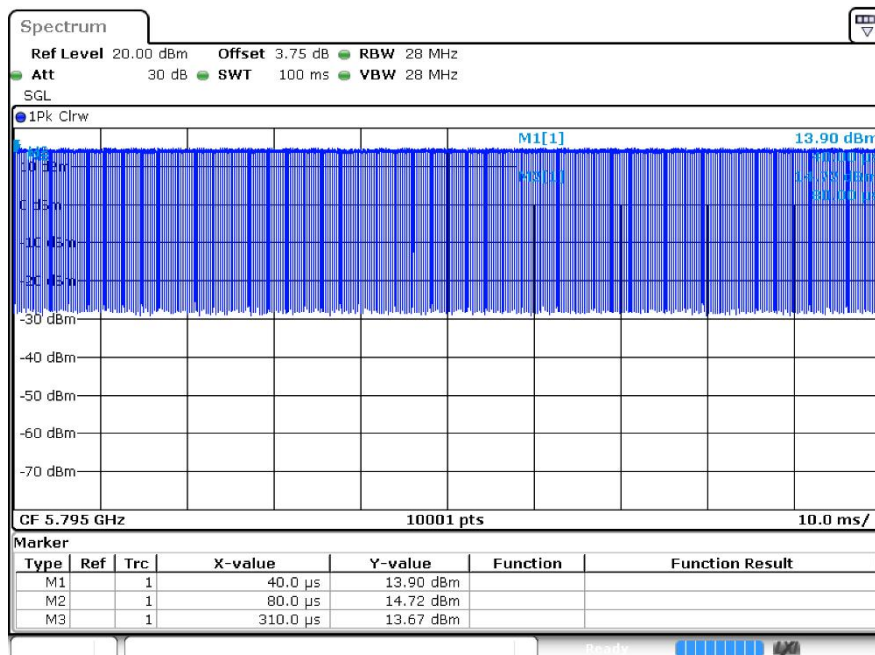




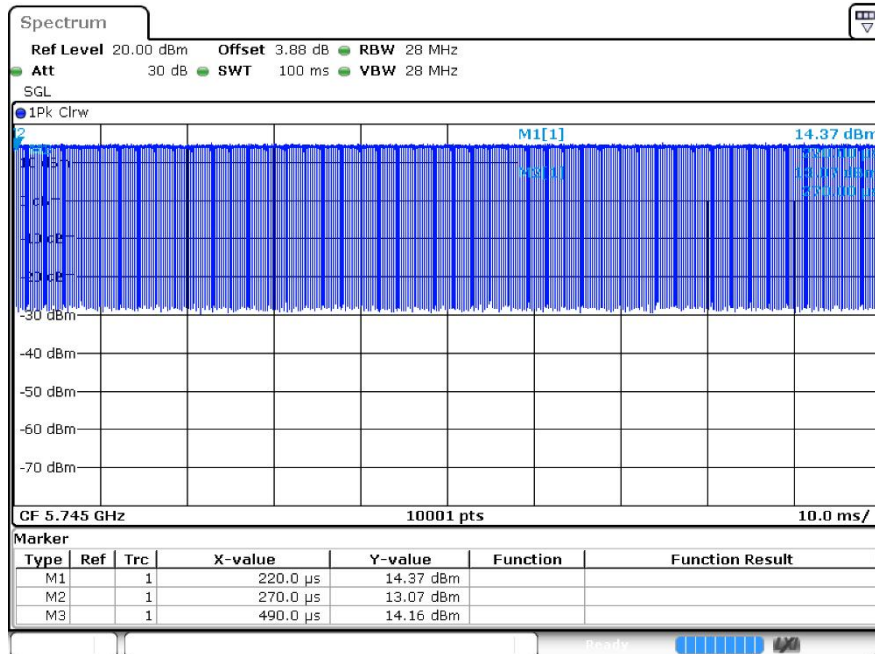
Duty Cycle n40 5755MHz Ant1



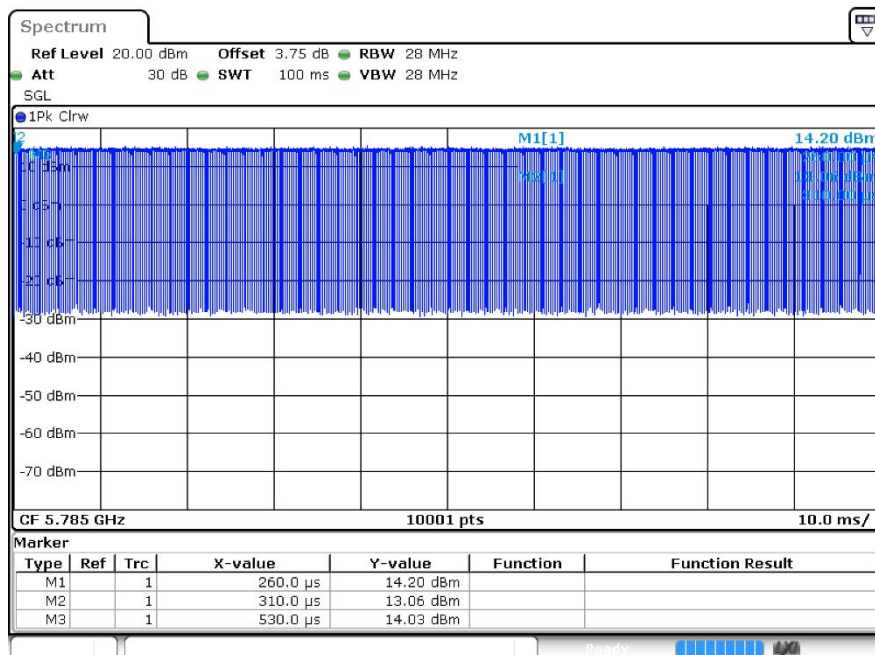
Duty Cycle n40 5795MHz Ant1



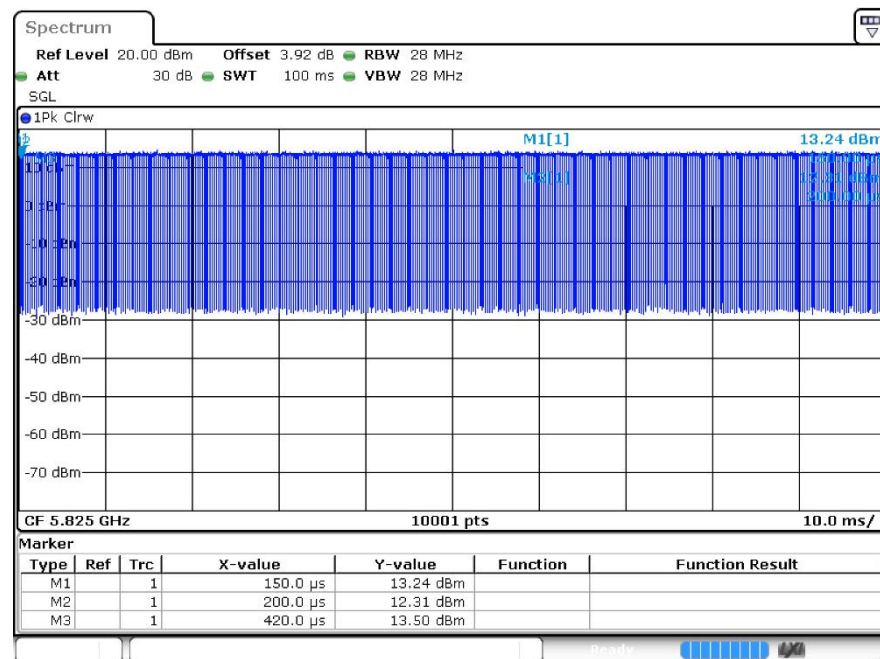
Duty Cycle ac20 5745MHz Ant1



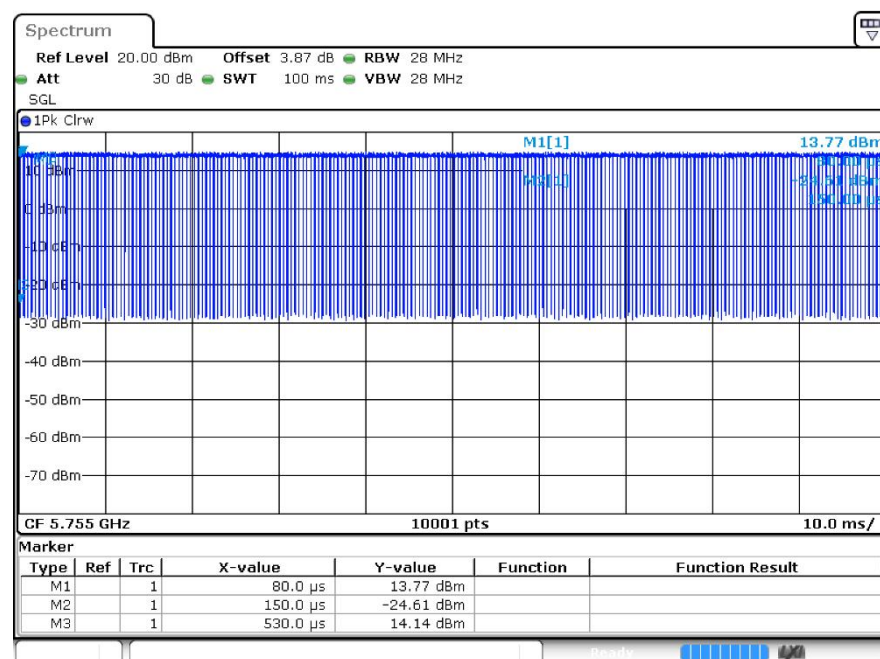
Duty Cycle ac20 5785MHz Ant1

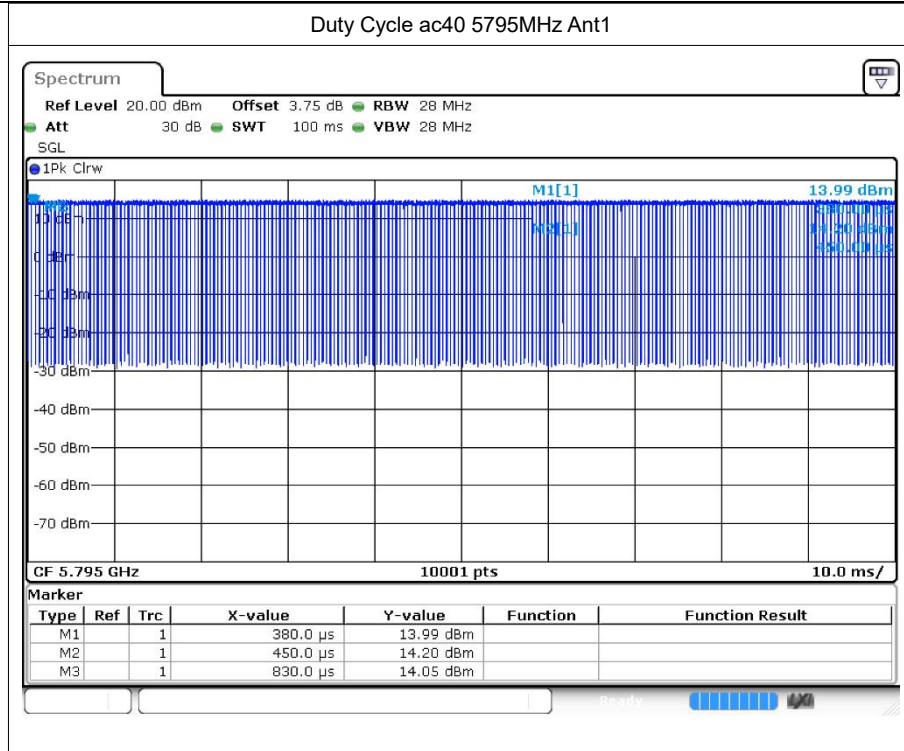


Duty Cycle ac20 5825MHz Ant1

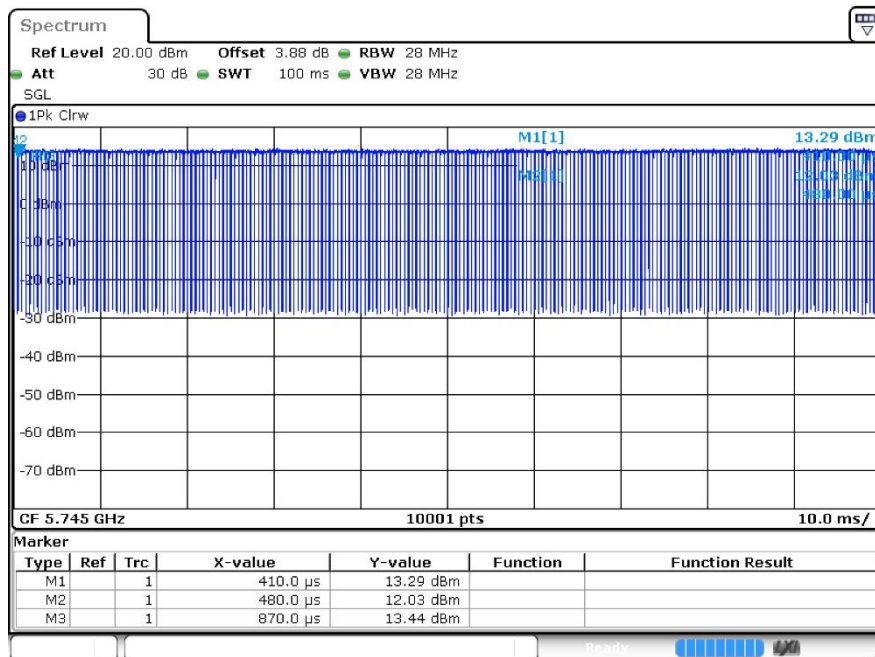


Duty Cycle ac40 5755MHz Ant1

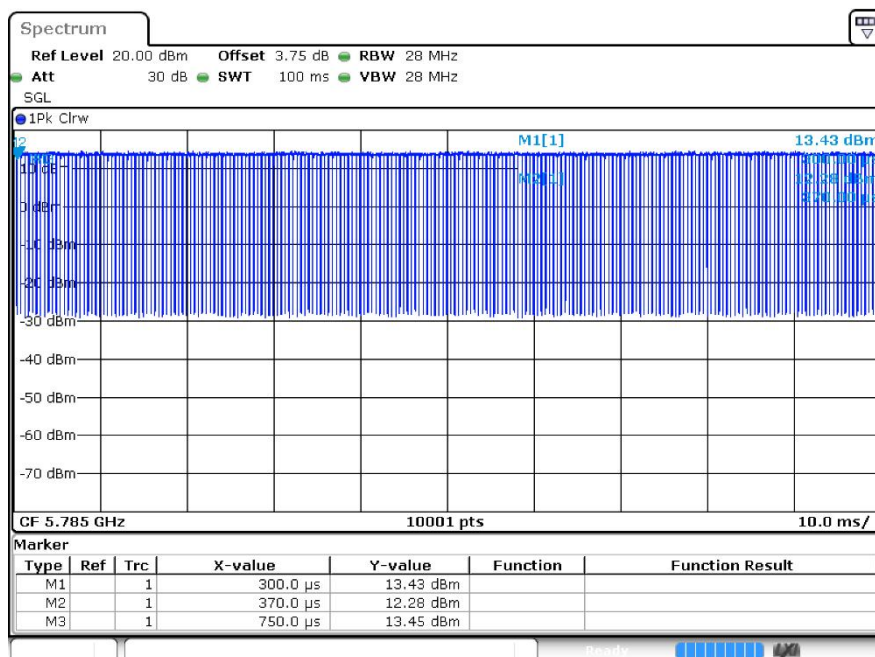




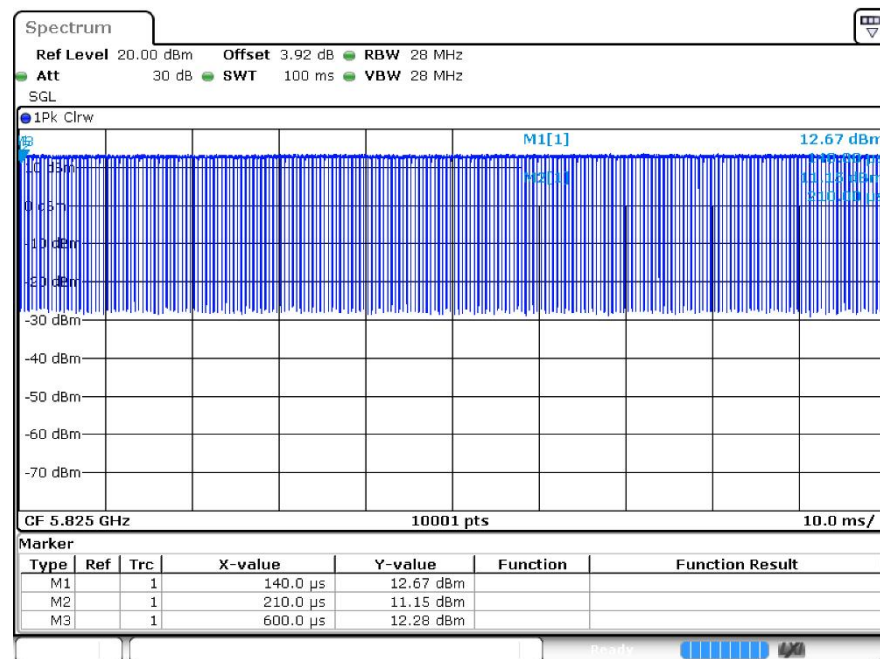
Duty Cycle ax20 5745MHz Ant1



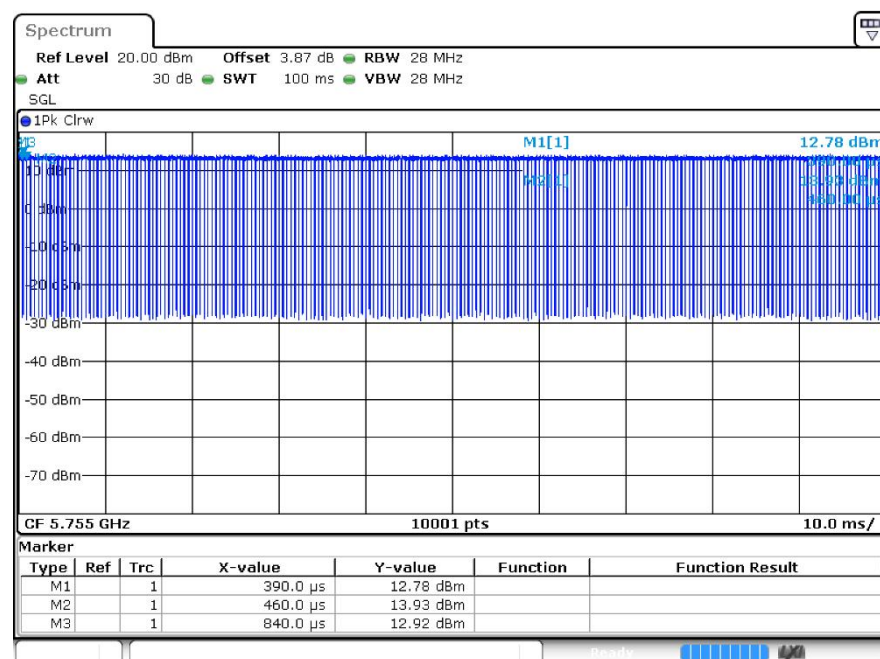
Duty Cycle ax20 5785MHz Ant1

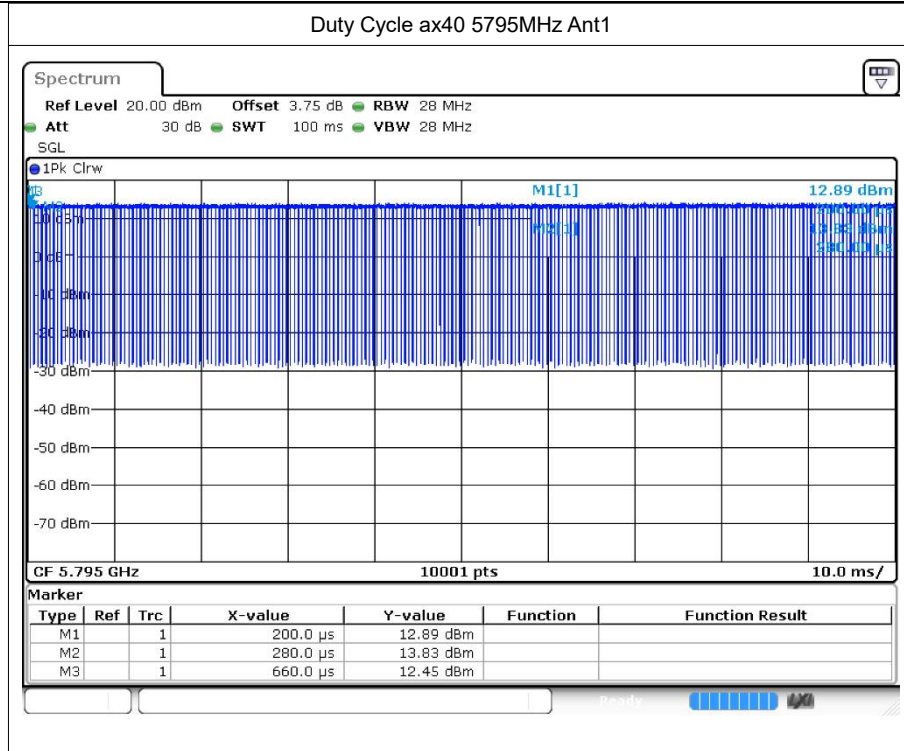


Duty Cycle ax20 5825MHz Ant1



Duty Cycle ax40 5755MHz Ant1





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	13.62	30	Pass
a	5785	Ant1	13.73	30	Pass
a	5825	Ant1	12.77	30	Pass
n20	5745	Ant1	13.04	30	Pass
n20	5785	Ant1	13.23	30	Pass
n20	5825	Ant1	12.29	30	Pass
n40	5755	Ant1	13.21	30	Pass
n40	5795	Ant1	13.25	30	Pass
ac20	5745	Ant1	13.14	30	Pass
ac20	5785	Ant1	13.16	30	Pass
ac20	5825	Ant1	12.28	30	Pass
ac40	5755	Ant1	13.21	30	Pass
ac40	5795	Ant1	13.2	30	Pass
ax20	5745	Ant1	13.36	30	Pass
ax20	5785	Ant1	13.44	30	Pass
ax20	5825	Ant1	12.53	30	Pass
ax40	5755	Ant1	13.57	30	Pass
ax40	5795	Ant1	13.46	30	Pass

Note:

The duty factor has been compensated into the result.

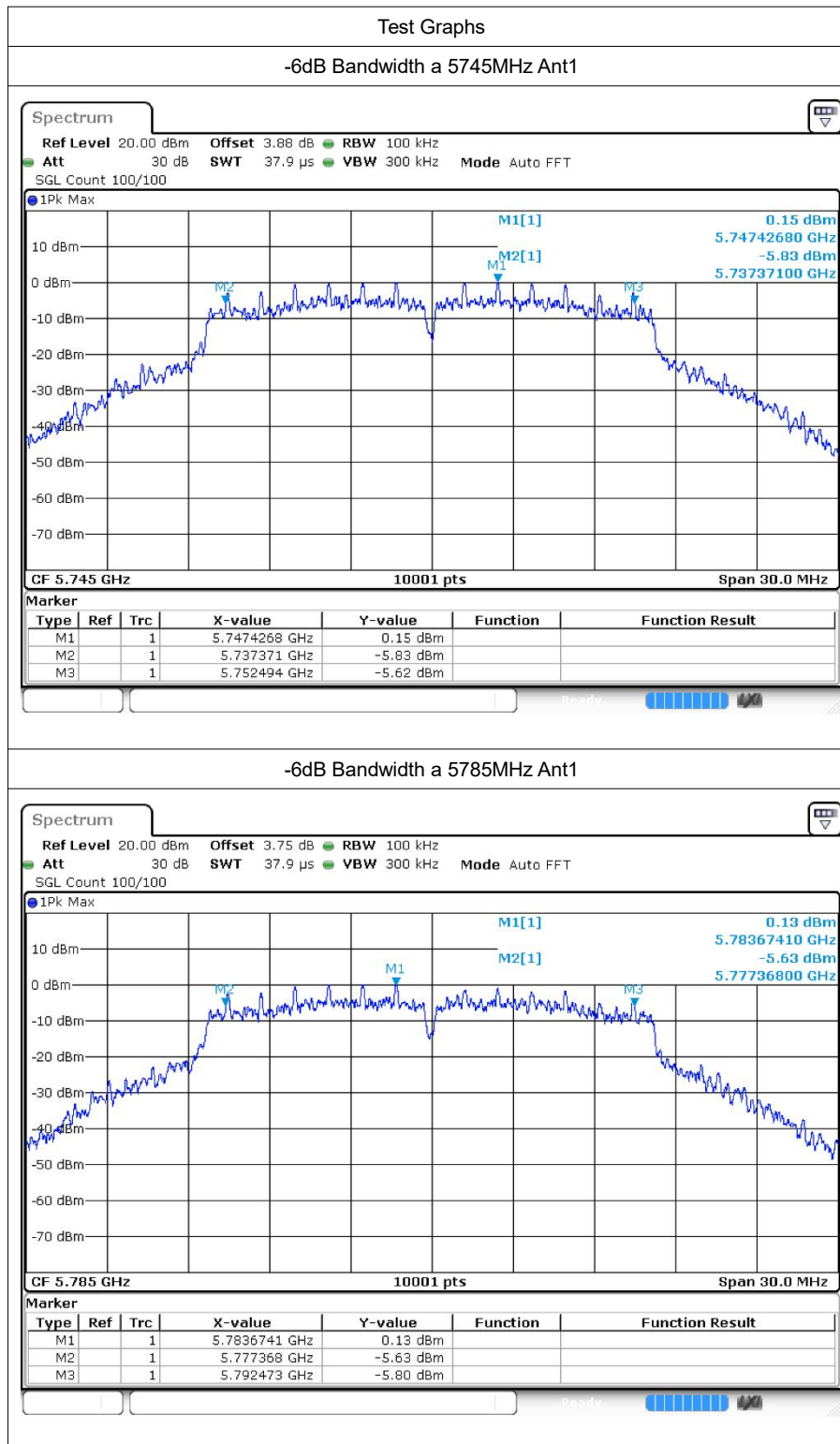


3 -6dB Bandwidth

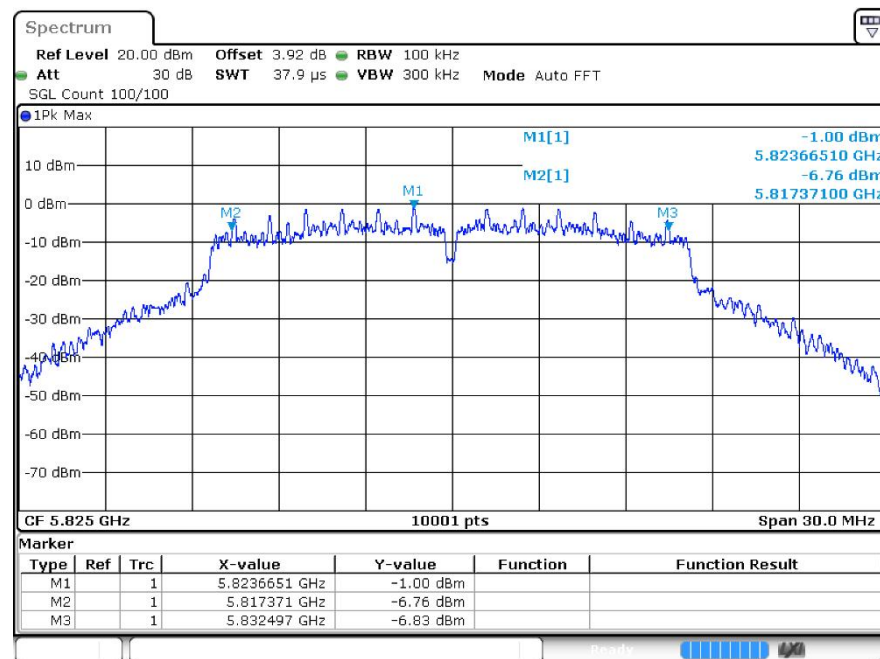
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.123	0.5	Pass
a	5785	Ant1	15.105	0.5	Pass
a	5825	Ant1	15.126	0.5	Pass
n20	5745	Ant1	15.081	0.5	Pass
n20	5785	Ant1	15.081	0.5	Pass
n20	5825	Ant1	15.081	0.5	Pass
n40	5755	Ant1	34.98	0.5	Pass
n40	5795	Ant1	35.076	0.5	Pass
ac20	5745	Ant1	15.117	0.5	Pass
ac20	5785	Ant1	15.021	0.5	Pass
ac20	5825	Ant1	15.117	0.5	Pass
ac40	5755	Ant1	35.088	0.5	Pass
ac40	5795	Ant1	31.344	0.5	Pass
ax20	5745	Ant1	15.117	0.5	Pass
ax20	5785	Ant1	15.105	0.5	Pass
ax20	5825	Ant1	15.126	0.5	Pass
ax40	5755	Ant1	35.094	0.5	Pass
ax40	5795	Ant1	34.998	0.5	Pass

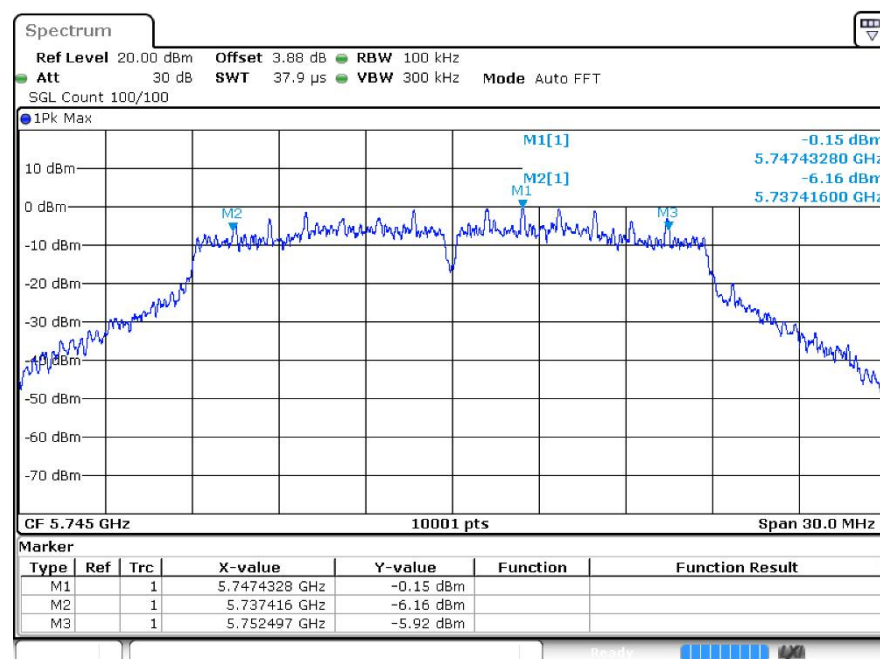
3.2 Test Graphs



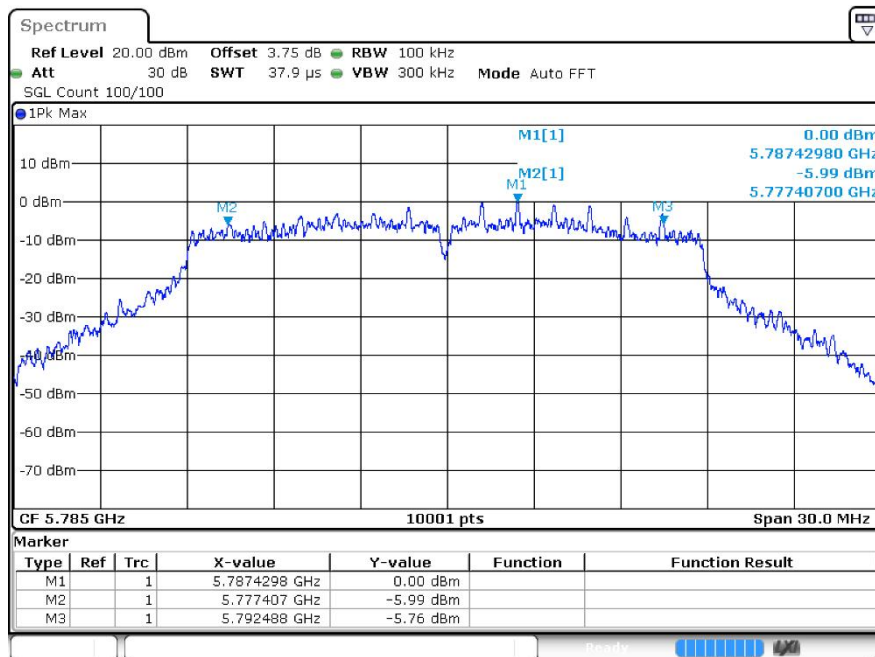
-6dB Bandwidth a 5825MHz Ant1



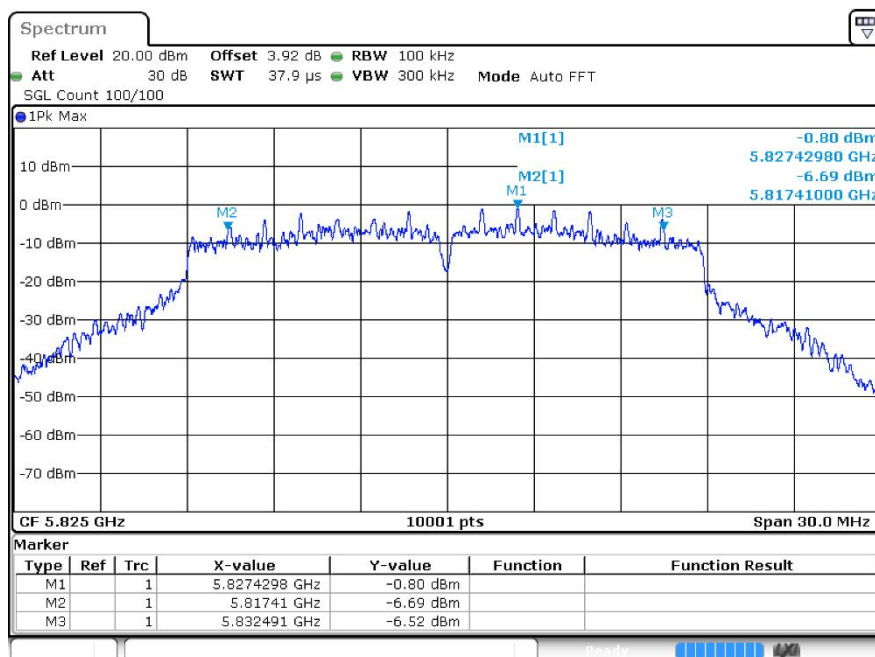
-6dB Bandwidth n20 5745MHz Ant1



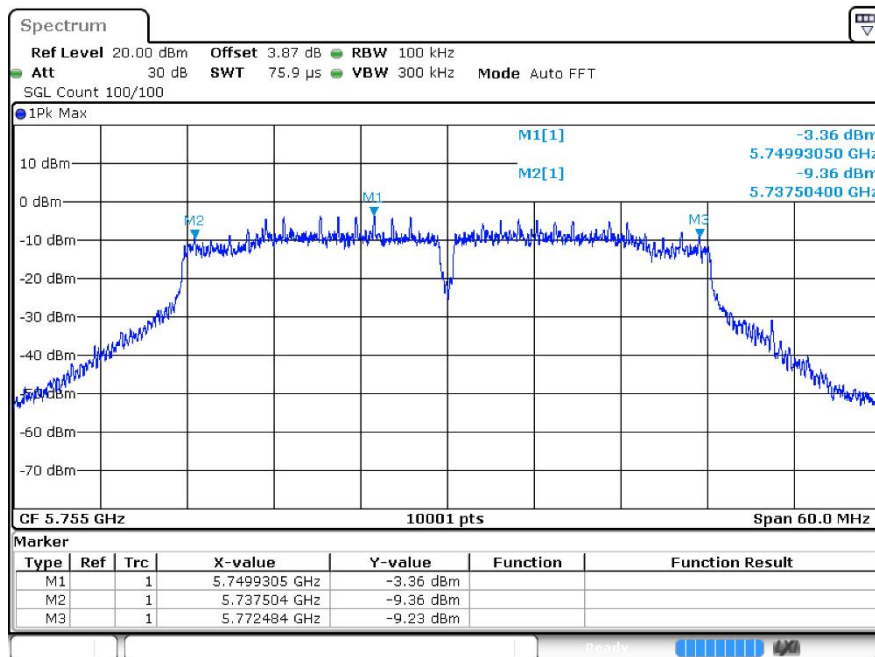
-6dB Bandwidth n20 5785MHz Ant1



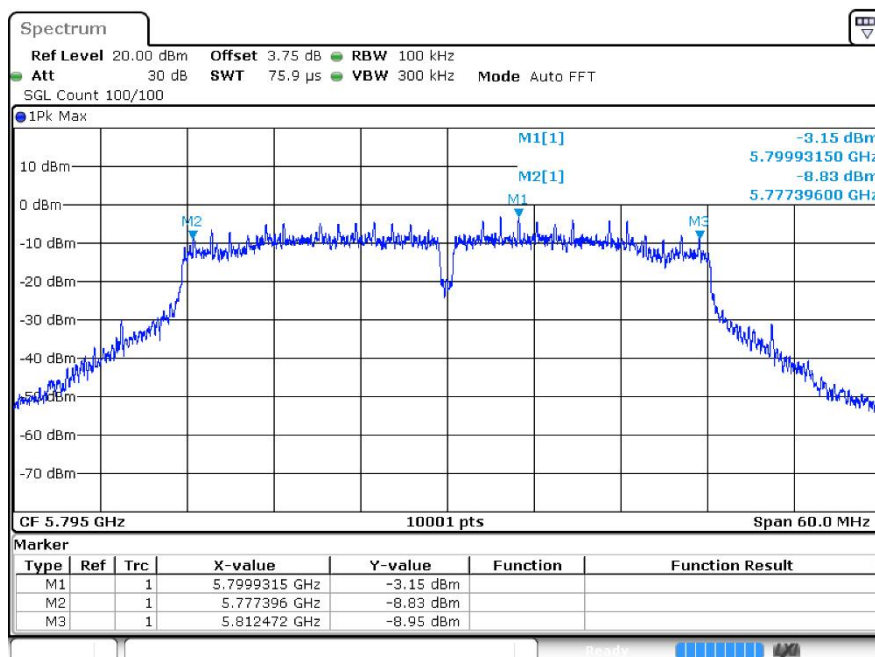
-6dB Bandwidth n20 5825MHz Ant1



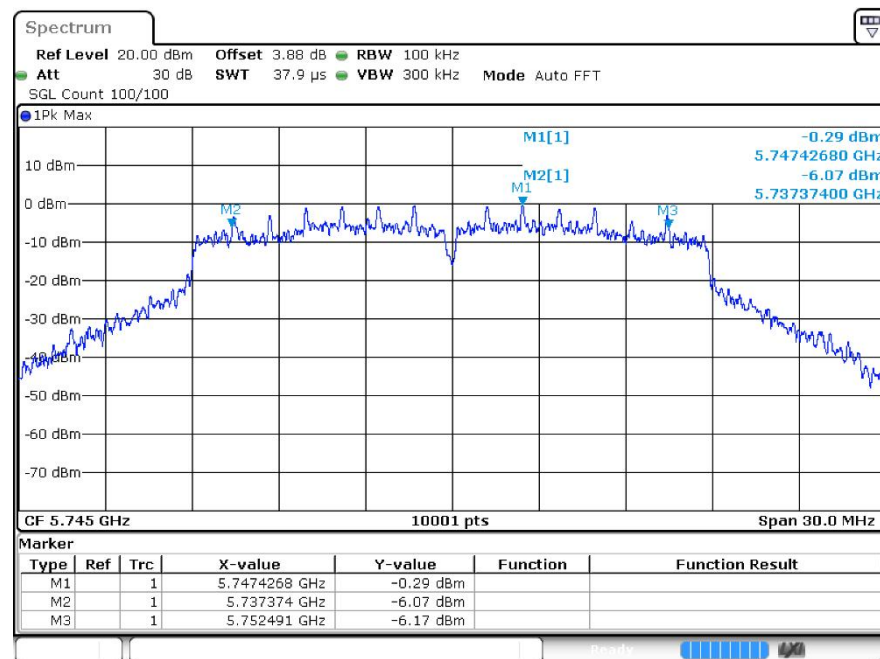
-6dB Bandwidth n40 5755MHz Ant1



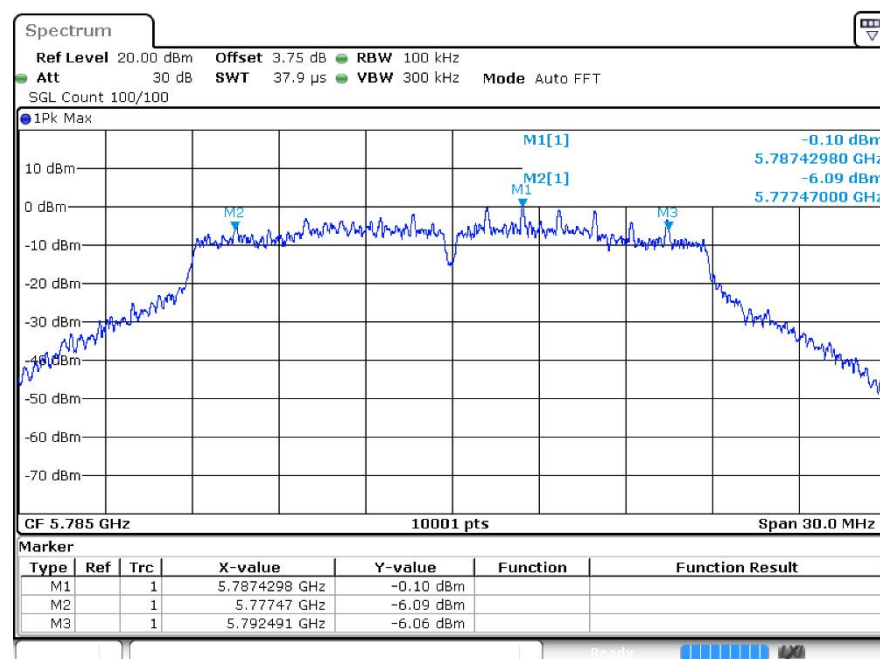
-6dB Bandwidth n40 5795MHz Ant1



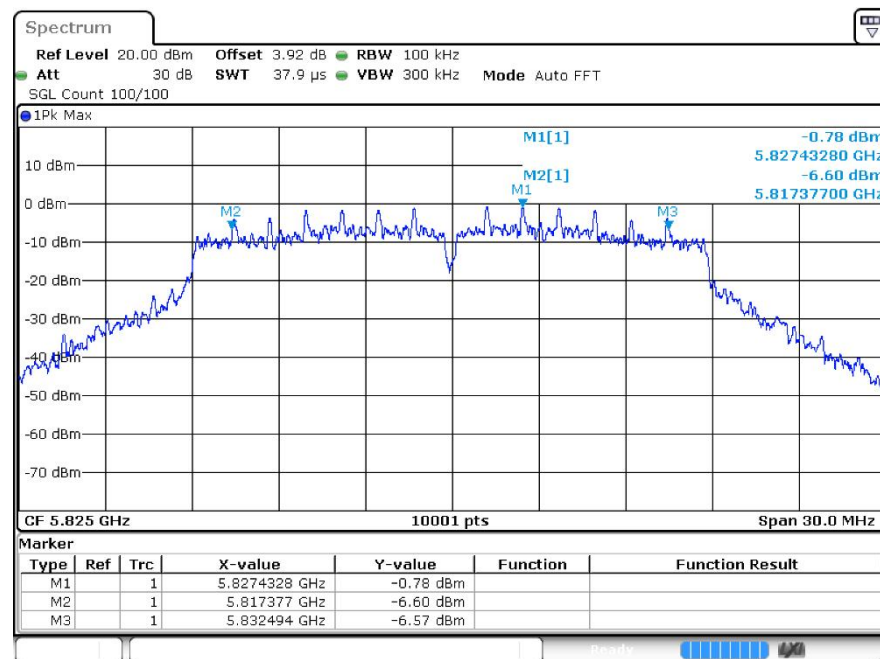
-6dB Bandwidth ac20 5745MHz Ant1



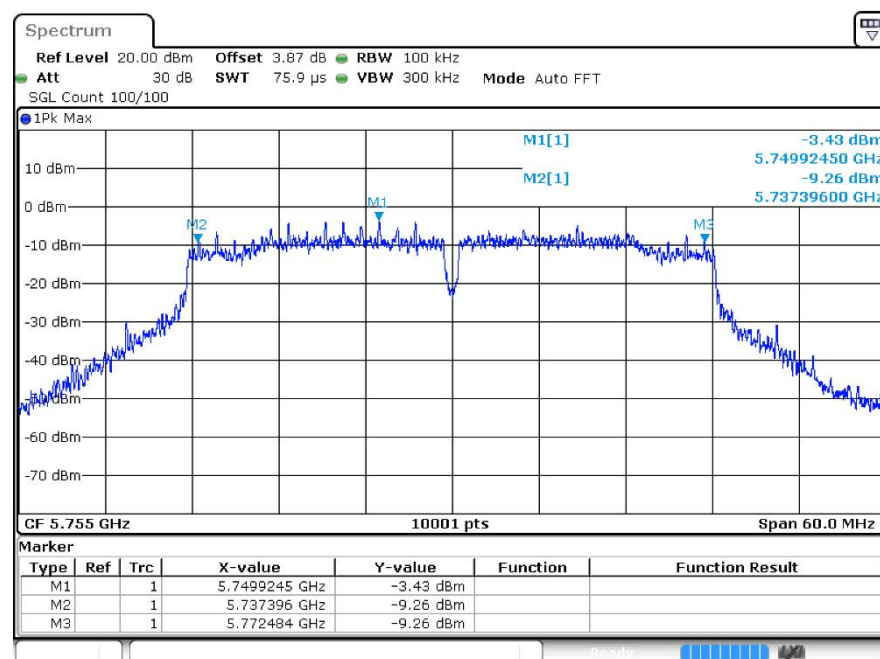
-6dB Bandwidth ac20 5785MHz Ant1

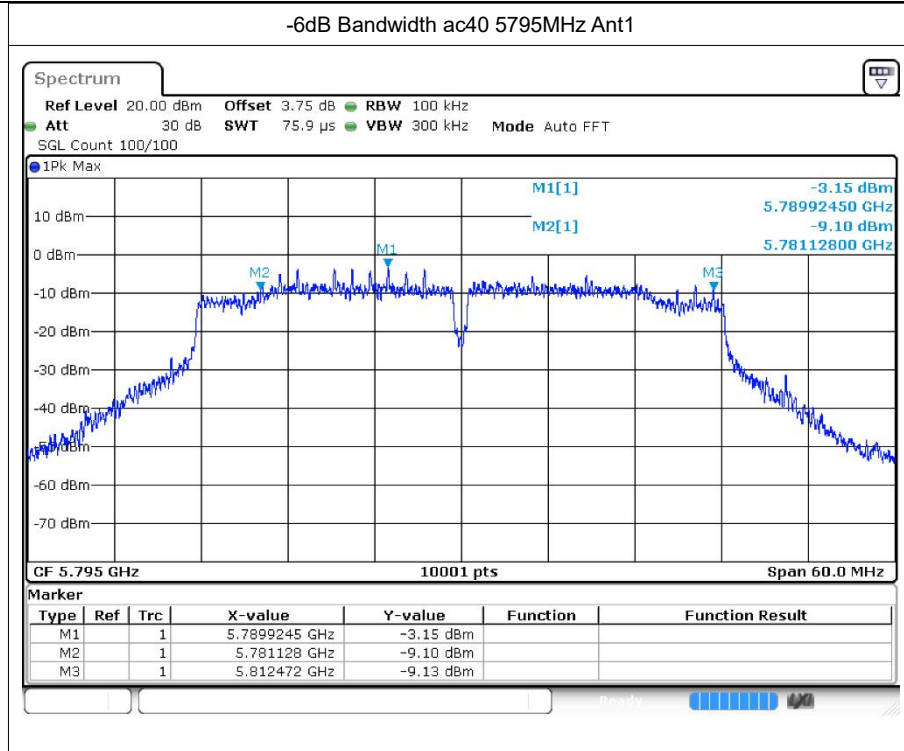


-6dB Bandwidth ac20 5825MHz Ant1

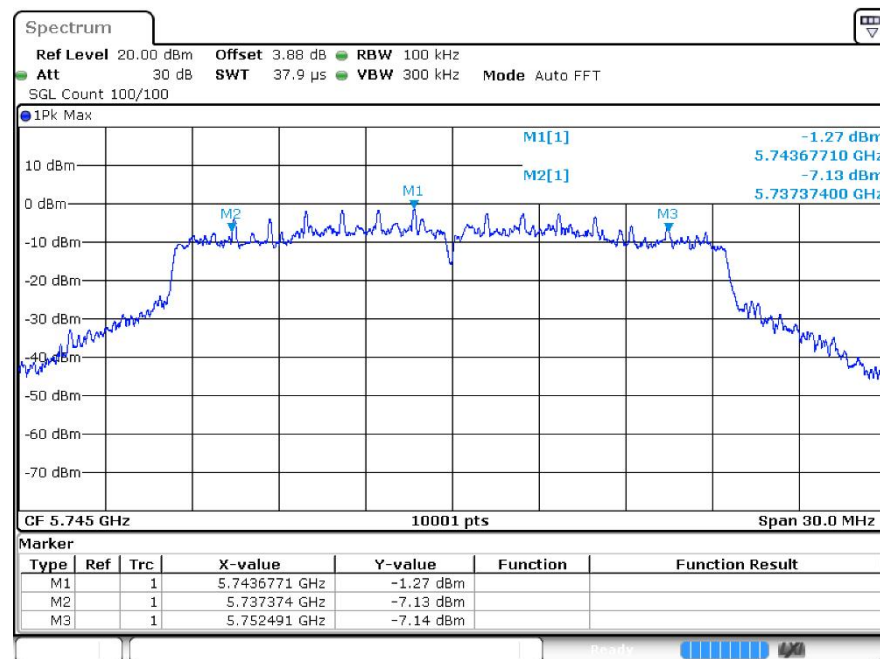


-6dB Bandwidth ac40 5755MHz Ant1

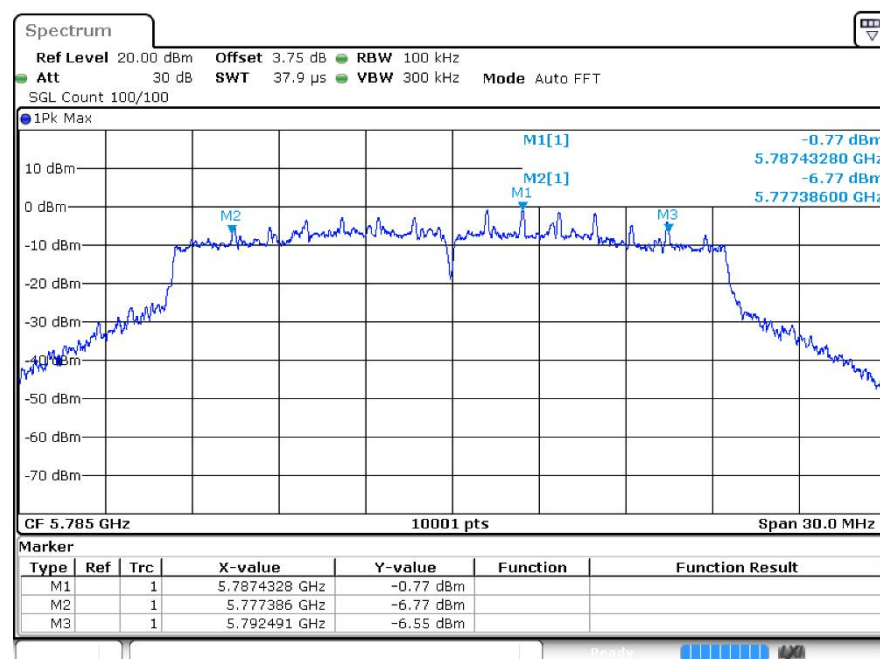




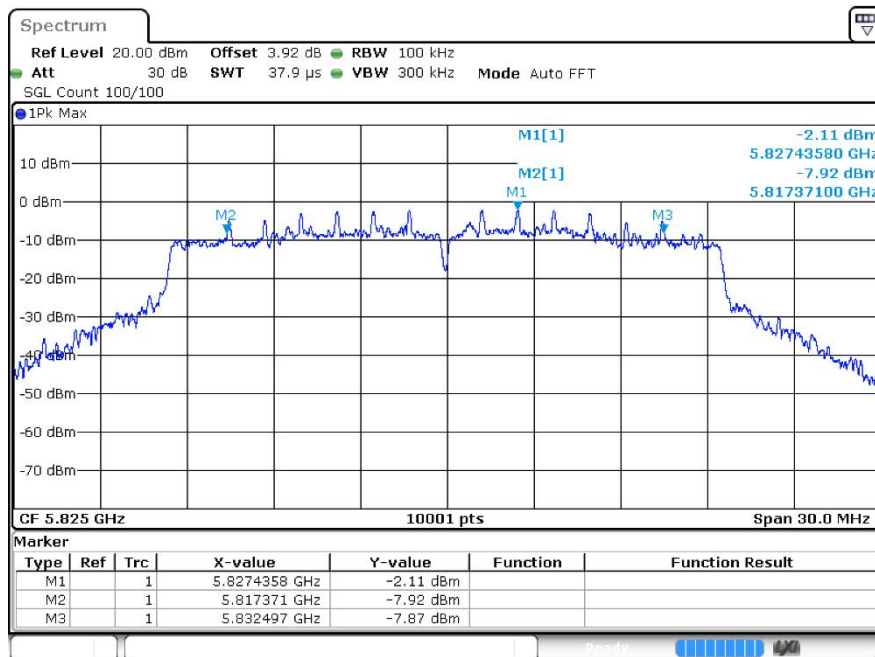
-6dB Bandwidth ax20 5745MHz Ant1



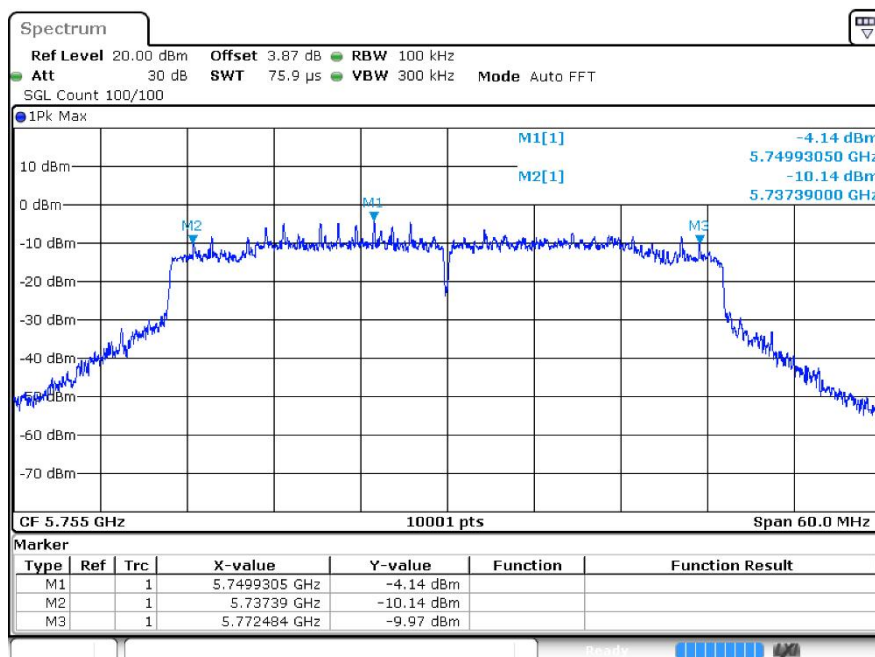
-6dB Bandwidth ax20 5785MHz Ant1

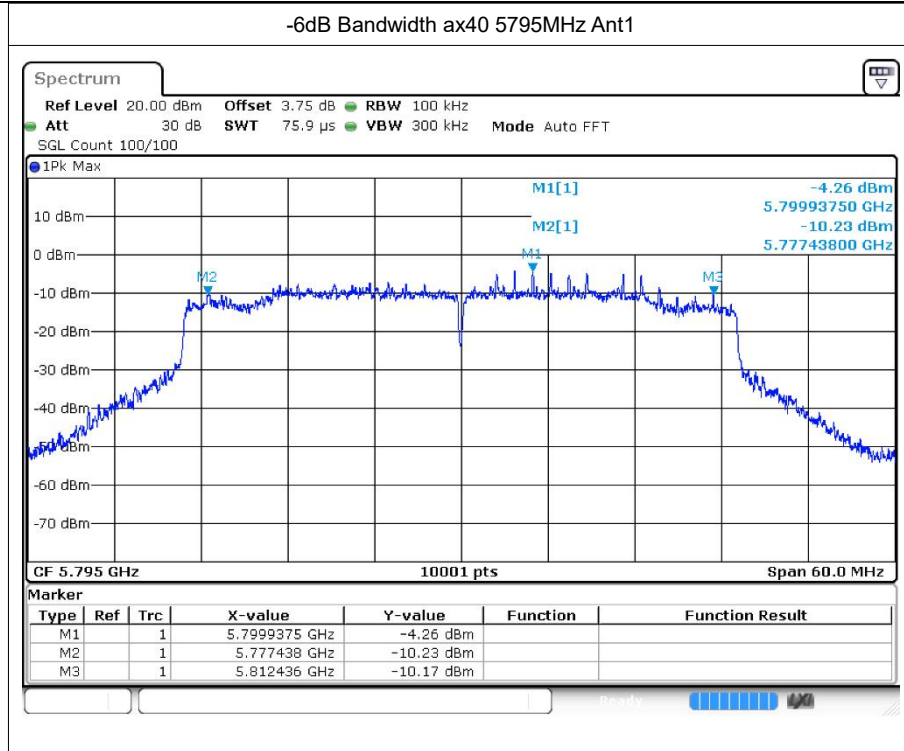


-6dB Bandwidth ax20 5825MHz Ant1



-6dB Bandwidth ax40 5755MHz Ant1



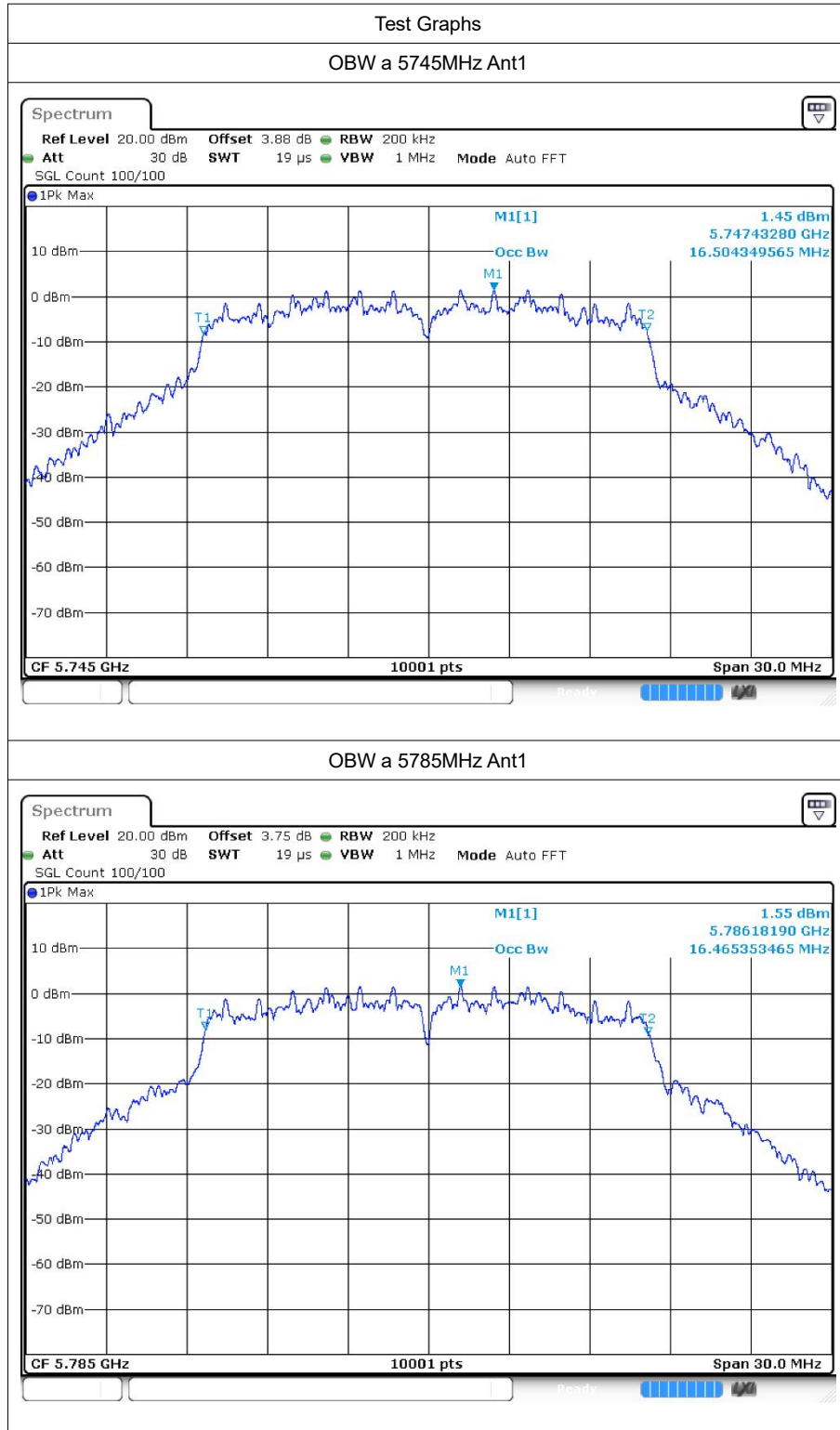


4 Occupied Channel Bandwidth

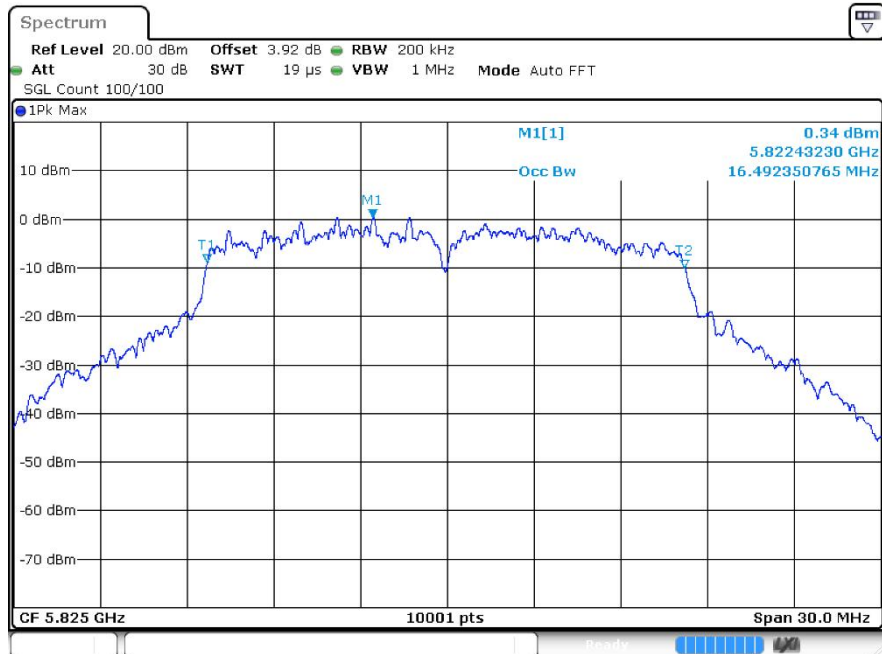
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.504
a	5785	Ant1	16.465
a	5825	Ant1	16.492
n20	5745	Ant1	17.698
n20	5785	Ant1	17.578
n20	5825	Ant1	17.665
n40	5755	Ant1	36.02
n40	5795	Ant1	35.954
ac20	5745	Ant1	17.569
ac20	5785	Ant1	17.575
ac20	5825	Ant1	17.584
ac40	5755	Ant1	35.978
ac40	5795	Ant1	36.116
ax20	5745	Ant1	18.844
ax20	5785	Ant1	18.826
ax20	5825	Ant1	18.808
ax40	5755	Ant1	37.346
ax40	5795	Ant1	37.424

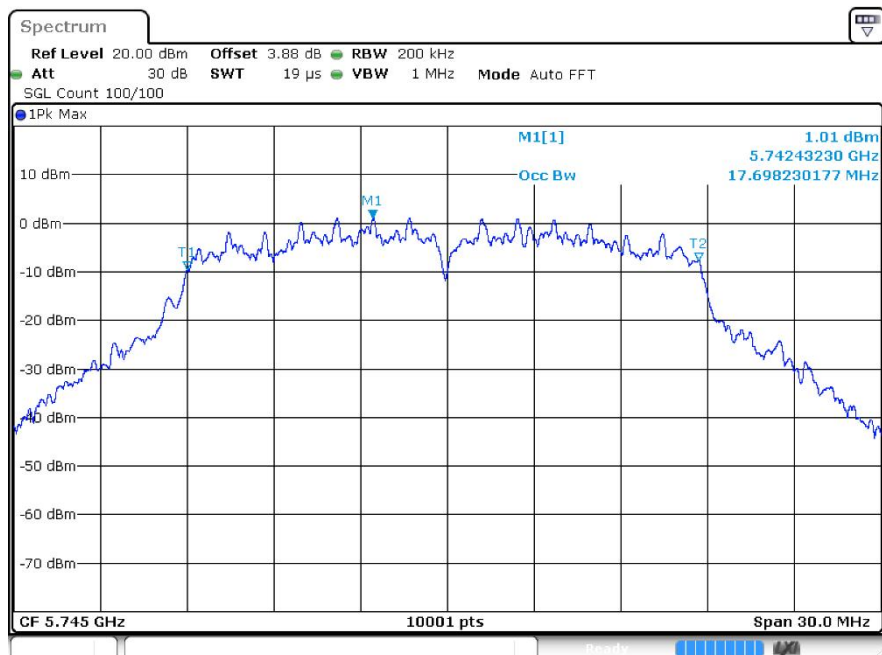
4.2 Test Graphs



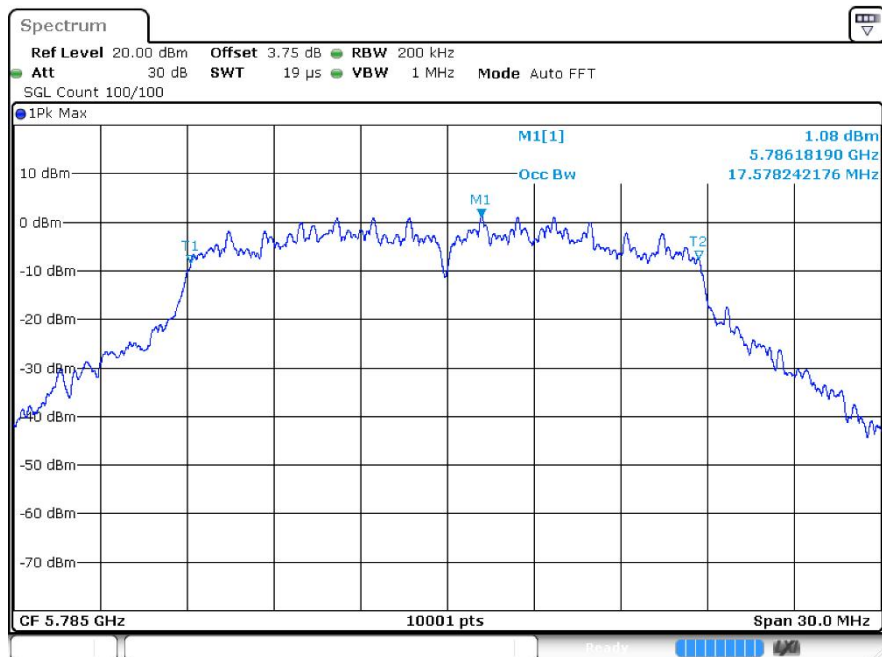
OBW a 5825MHz Ant1



OBW n20 5745MHz Ant1



OBW n20 5785MHz Ant1



OBW n20 5825MHz Ant1

