



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: IP camera

Trade Mark: N/A

Test Model: IK-I108

Environmental Conditions

Temperature:	24.6° C
Relative Humidity:	52.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Simba Huang
Supervised by:	Seal Chen



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1 Duty Cycle

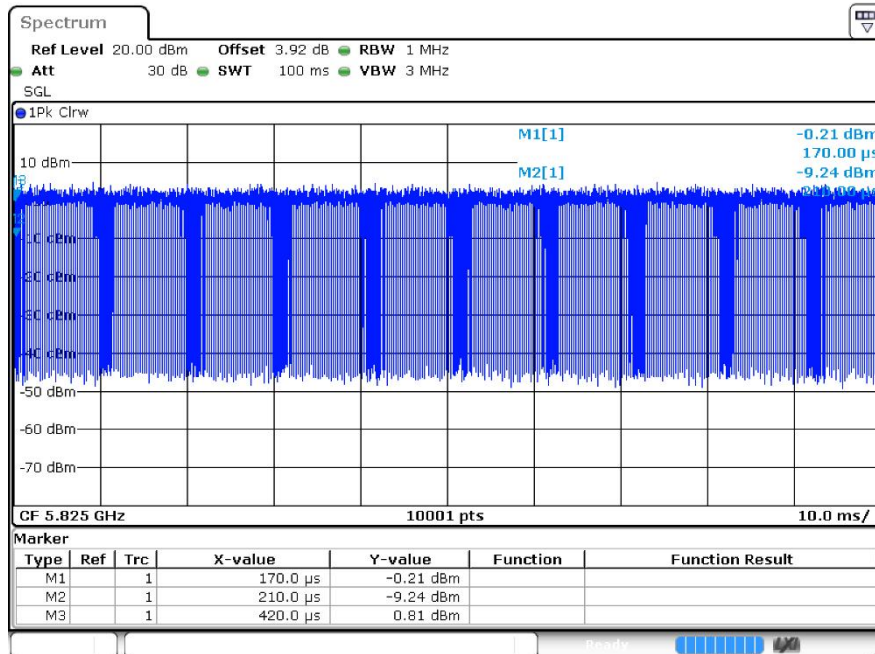
1.1 Test Result

Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.86	0.61	4.76
a	5785	Ant1	86.88	0.61	4.55
a	5825	Ant1	86.88	0.61	4.76
n20	5745	Ant1	87.58	0.58	4.35
n20	5785	Ant1	87.61	0.57	4.35
n20	5825	Ant1	87.61	0.57	4.17
n40	5755	Ant1	88.1	0.55	4.17
n40	5795	Ant1	88.06	0.55	4.17
ac20	5745	Ant1	87.21	0.59	4.55
ac20	5785	Ant1	87.21	0.59	4.35
ac20	5825	Ant1	87.14	0.6	4.55
ac40	5755	Ant1	86.99	0.61	4.55
ac40	5795	Ant1	87.04	0.6	4.55
ac80	5775	Ant1	87.35	0.59	4.35

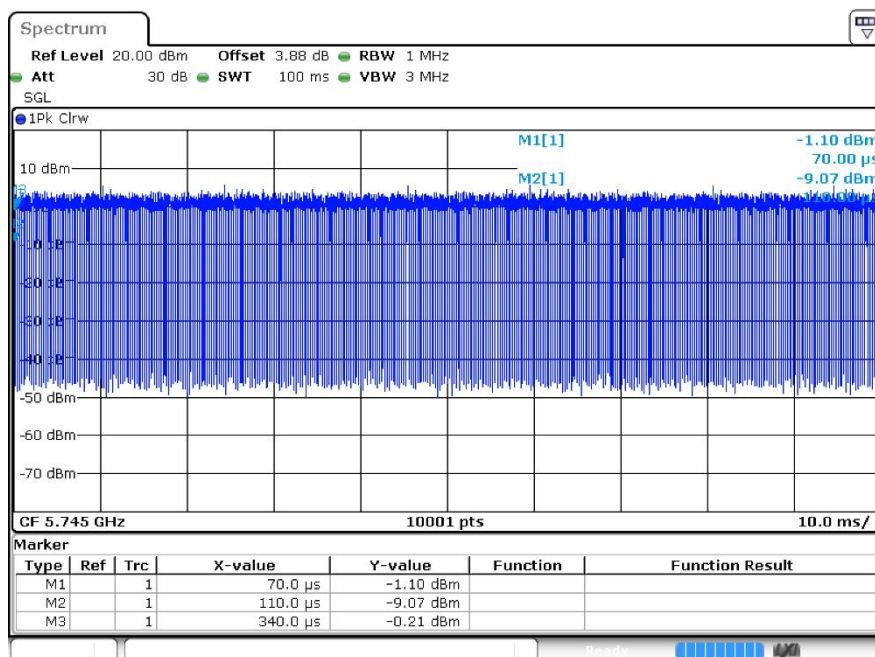
1.2 Test Graphs



Duty Cycle a 5825MHz Ant1



Duty Cycle n20 5745MHz Ant1



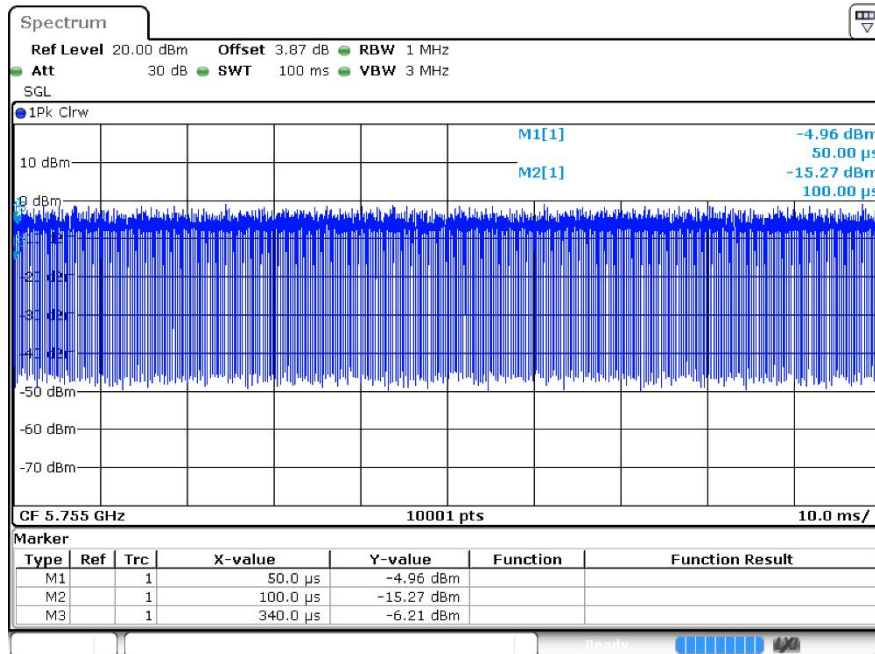
Duty Cycle n20 5785MHz Ant1



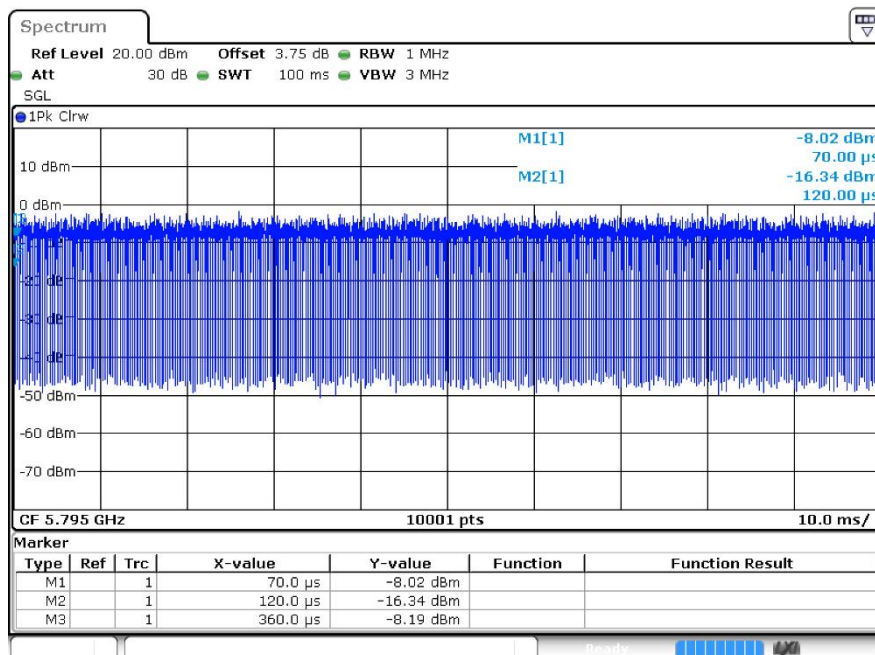
Duty Cycle n20 5825MHz Ant1



Duty Cycle n40 5755MHz Ant1



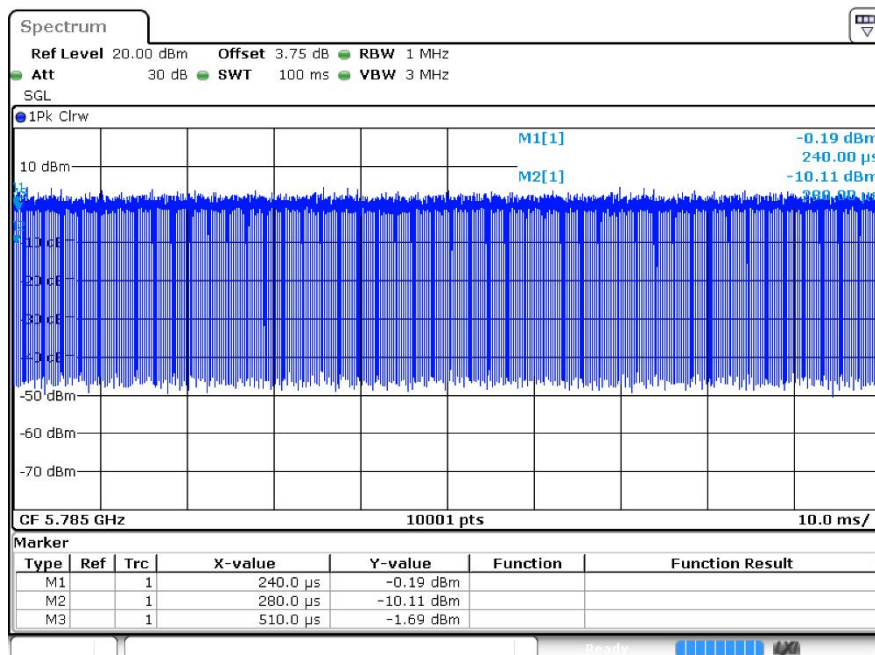
Duty Cycle n40 5795MHz Ant1



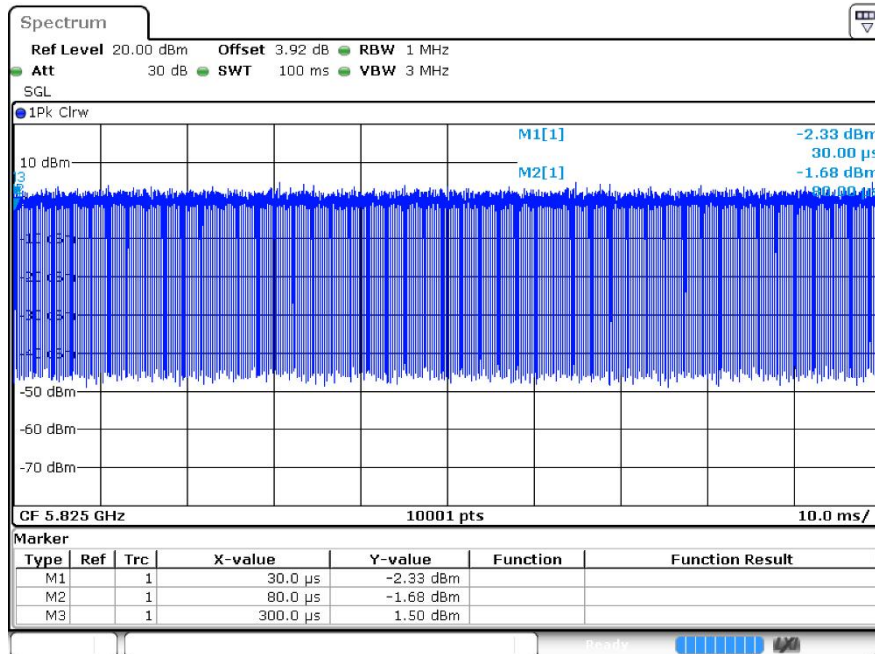
Duty Cycle ac20 5745MHz Ant1



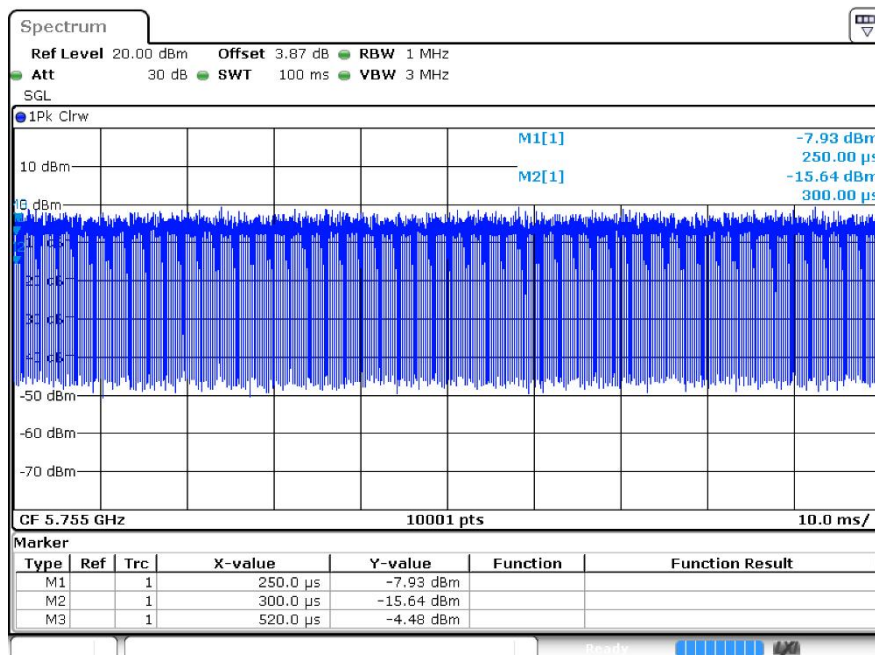
Duty Cycle ac20 5785MHz Ant1



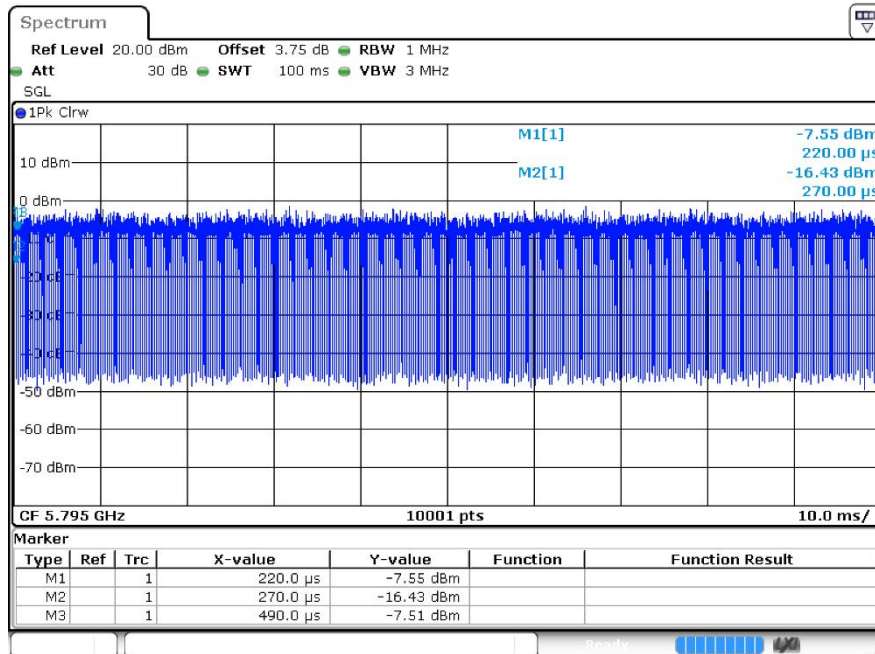
Duty Cycle ac20 5825MHz Ant1



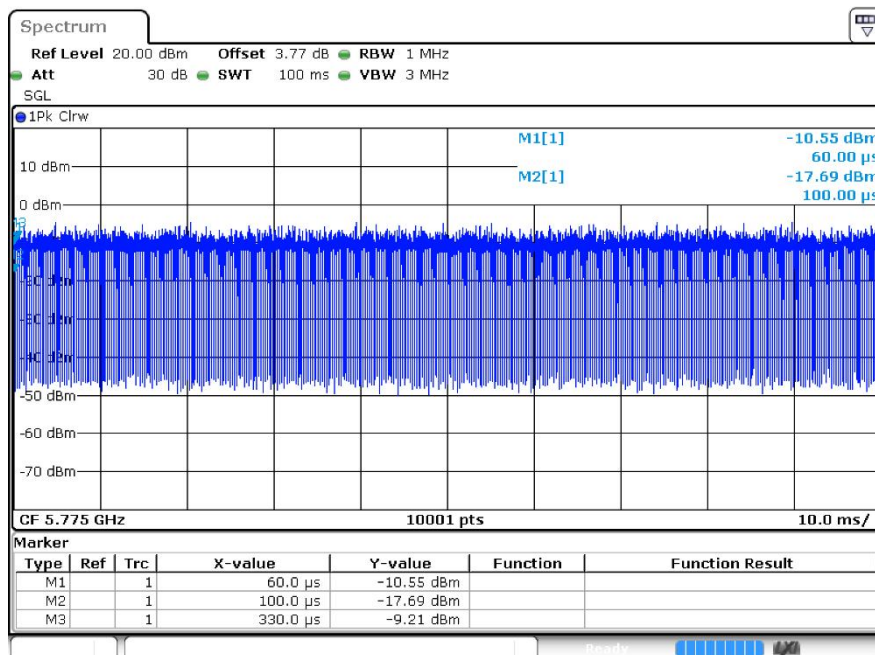
Duty Cycle ac40 5755MHz Ant1



Duty Cycle ac40 5795MHz Ant1



Duty Cycle ac80 5775MHz Ant1



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	11.91	30	Pass
a	5785	Ant1	10.96	30	Pass
a	5825	Ant1	11	30	Pass
n20	5745	Ant1	11.5	30	Pass
n20	5785	Ant1	10.64	30	Pass
n20	5825	Ant1	10.74	30	Pass
n40	5755	Ant1	10.99	30	Pass
n40	5795	Ant1	10.09	30	Pass
ac20	5745	Ant1	11.48	30	Pass
ac20	5785	Ant1	10.58	30	Pass
ac20	5825	Ant1	10.73	30	Pass
ac40	5755	Ant1	11.11	30	Pass
ac40	5795	Ant1	10.16	30	Pass
ac80	5775	Ant1	10.58	30	Pass

Note:

The duty factor has been compensated into the result.

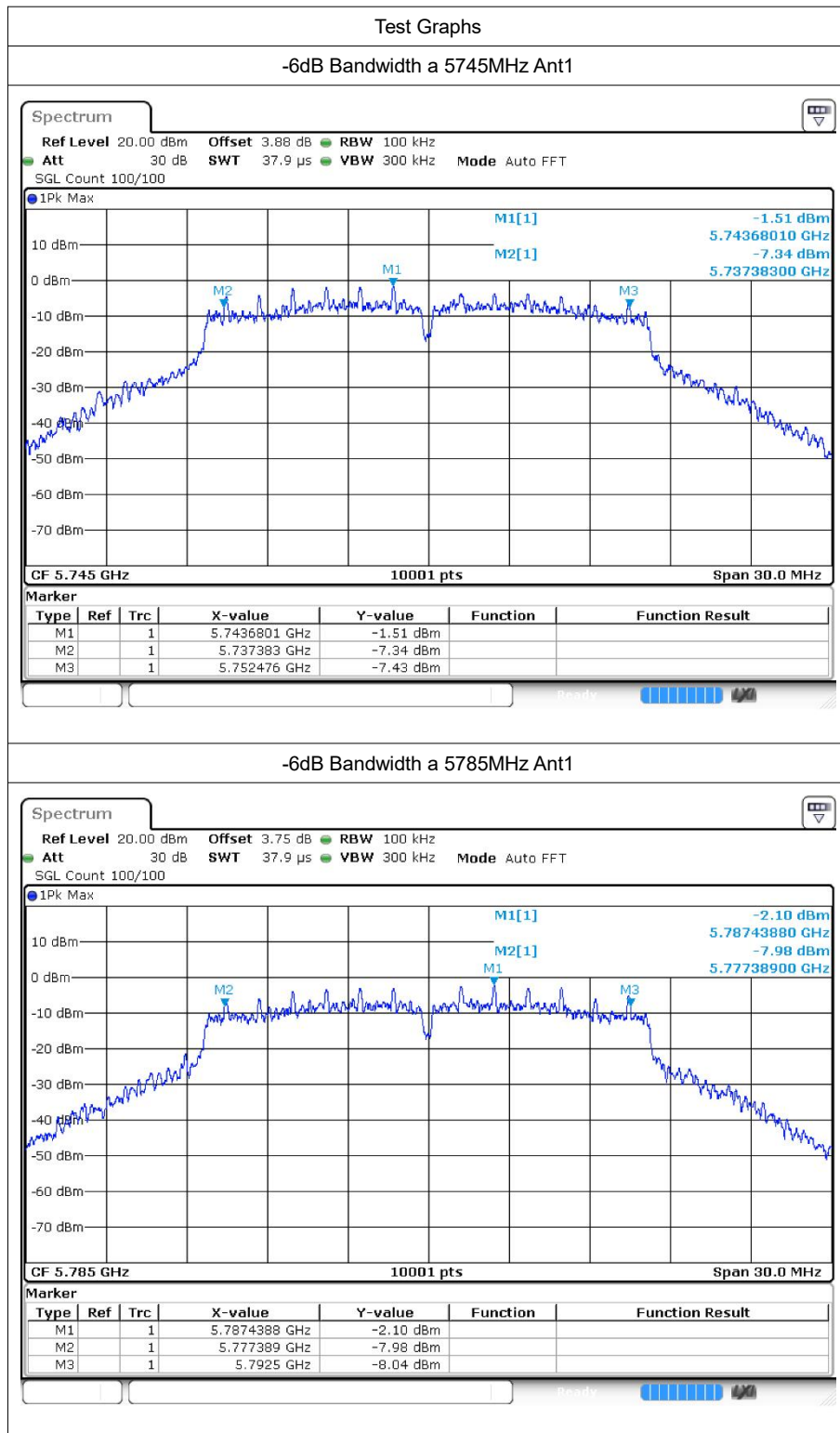


3 -6dB Bandwidth

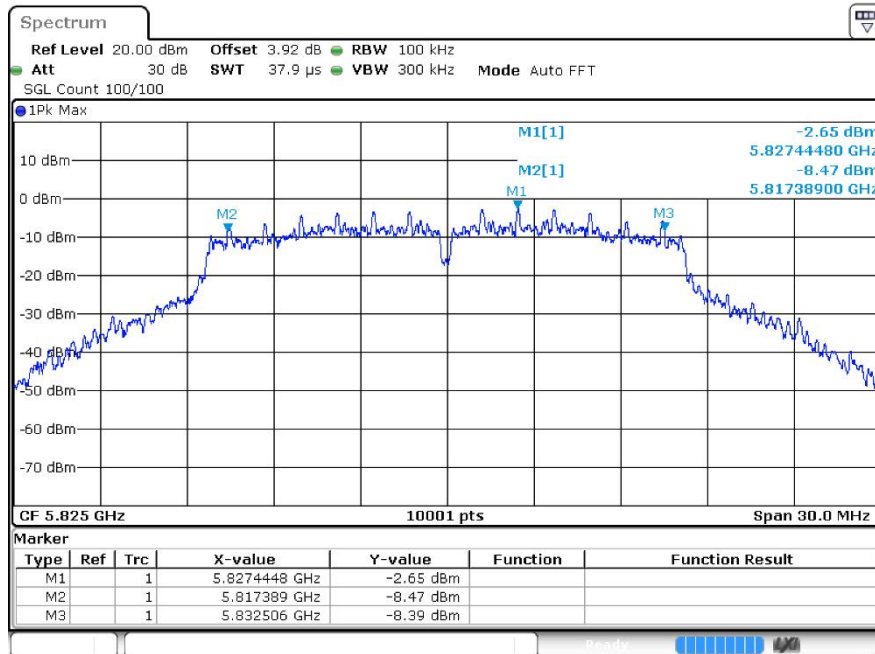
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.093	0.5	Pass
a	5785	Ant1	15.111	0.5	Pass
a	5825	Ant1	15.117	0.5	Pass
n20	5745	Ant1	15.114	0.5	Pass
n20	5785	Ant1	15.084	0.5	Pass
n20	5825	Ant1	15.099	0.5	Pass
n40	5755	Ant1	35.088	0.5	Pass
n40	5795	Ant1	35.094	0.5	Pass
ac20	5745	Ant1	15.114	0.5	Pass
ac20	5785	Ant1	15.111	0.5	Pass
ac20	5825	Ant1	15.096	0.5	Pass
ac40	5755	Ant1	35.07	0.5	Pass
ac40	5795	Ant1	35.07	0.5	Pass
ac80	5775	Ant1	72.552	0.5	Pass

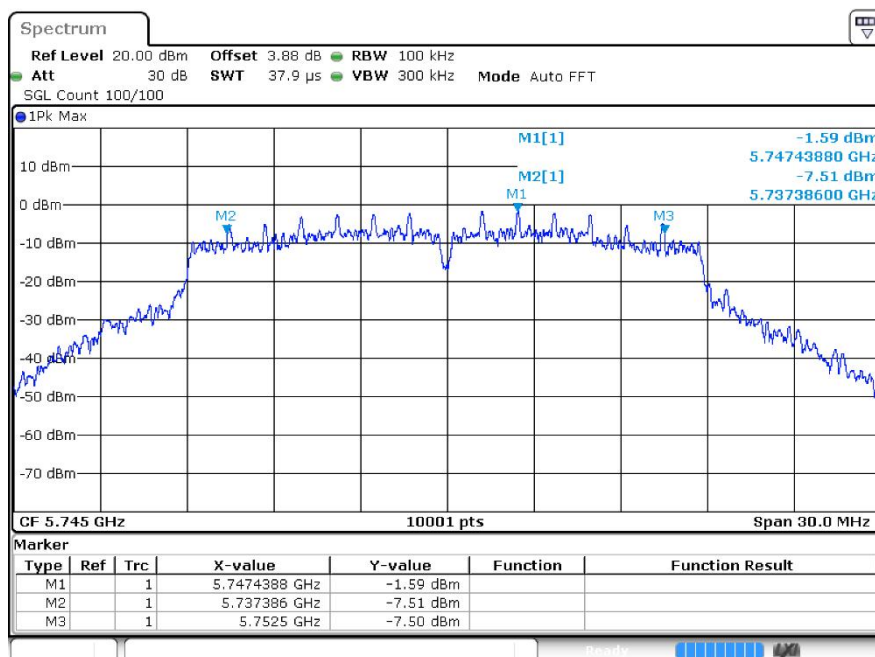
3.2 Test Graphs



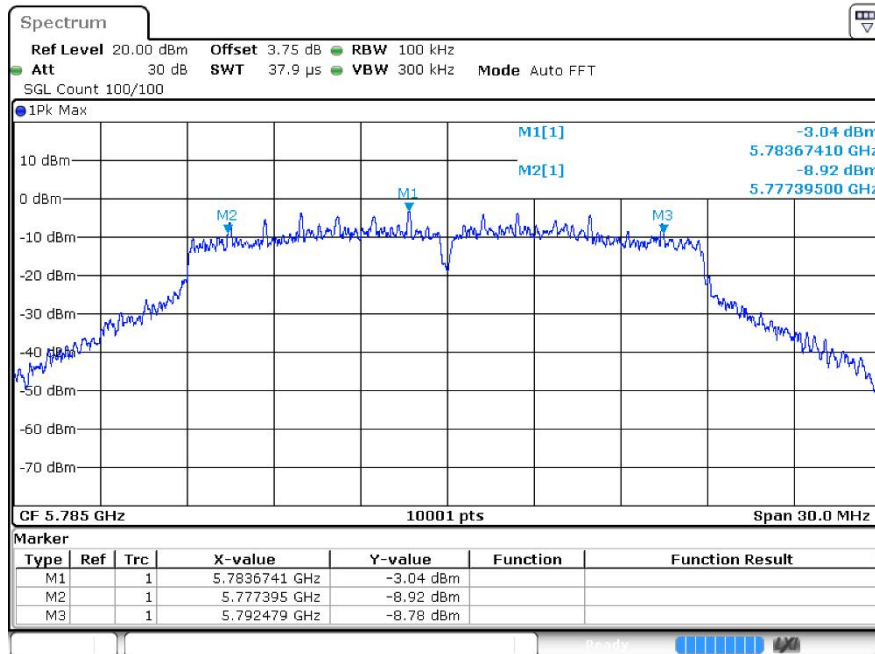
-6dB Bandwidth a 5825MHz Ant1



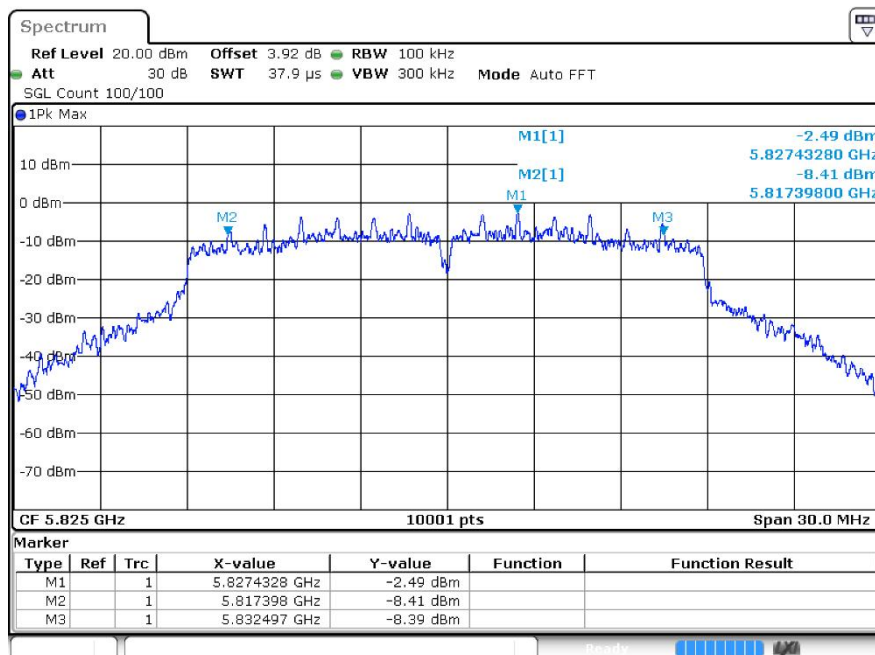
-6dB Bandwidth n20 5745MHz Ant1



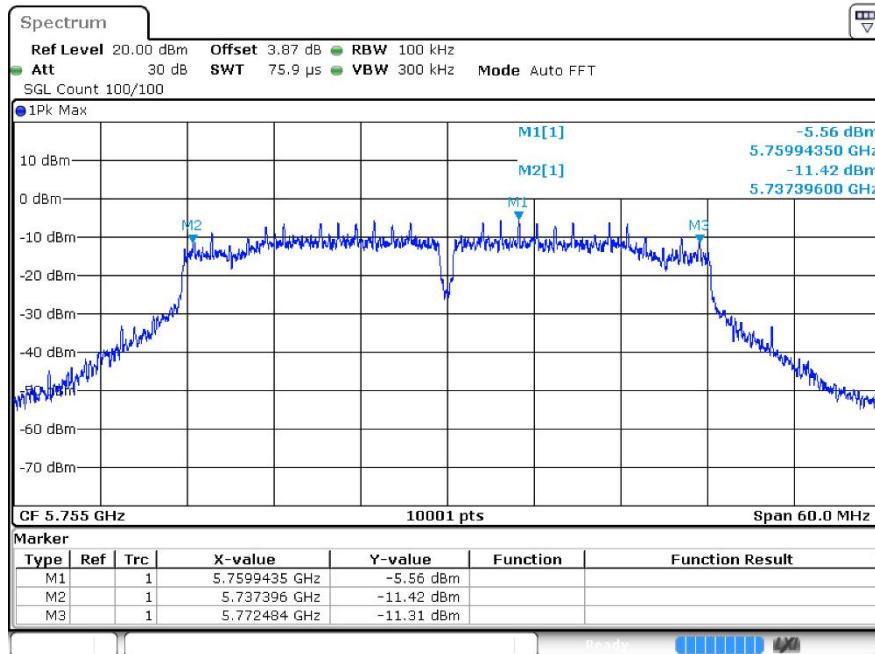
-6dB Bandwidth n20 5785MHz Ant1



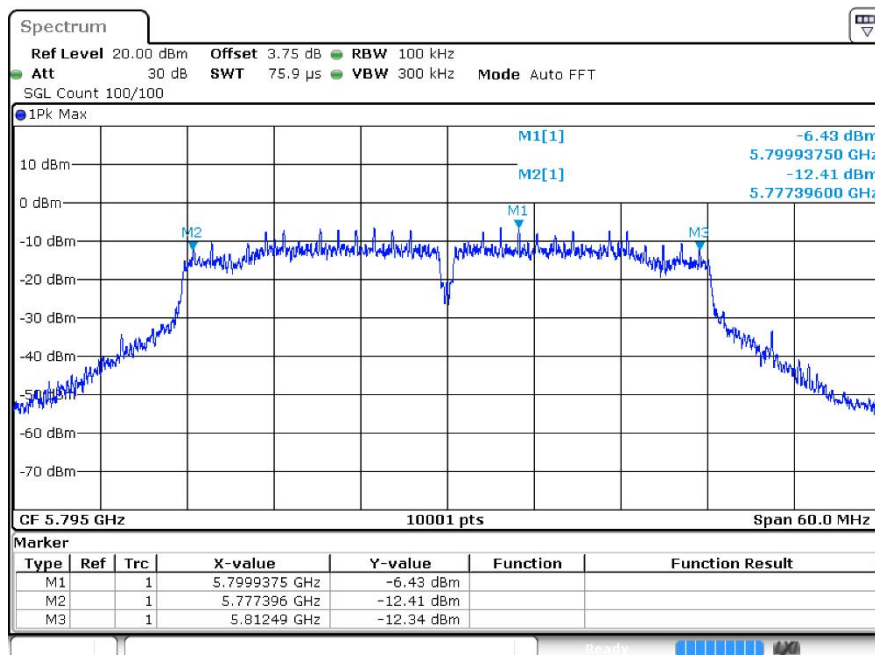
-6dB Bandwidth n20 5825MHz Ant1



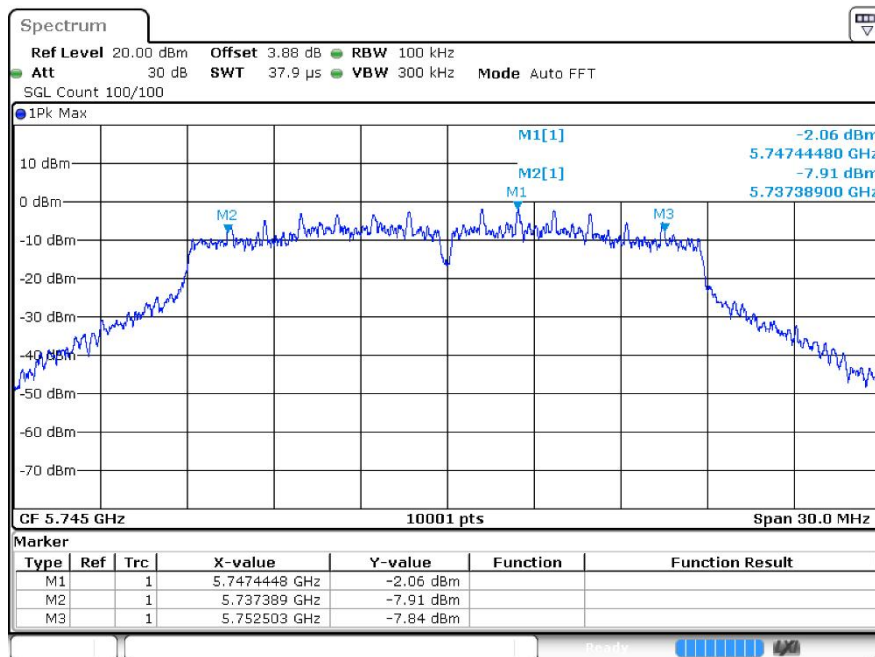
-6dB Bandwidth n40 5755MHz Ant1



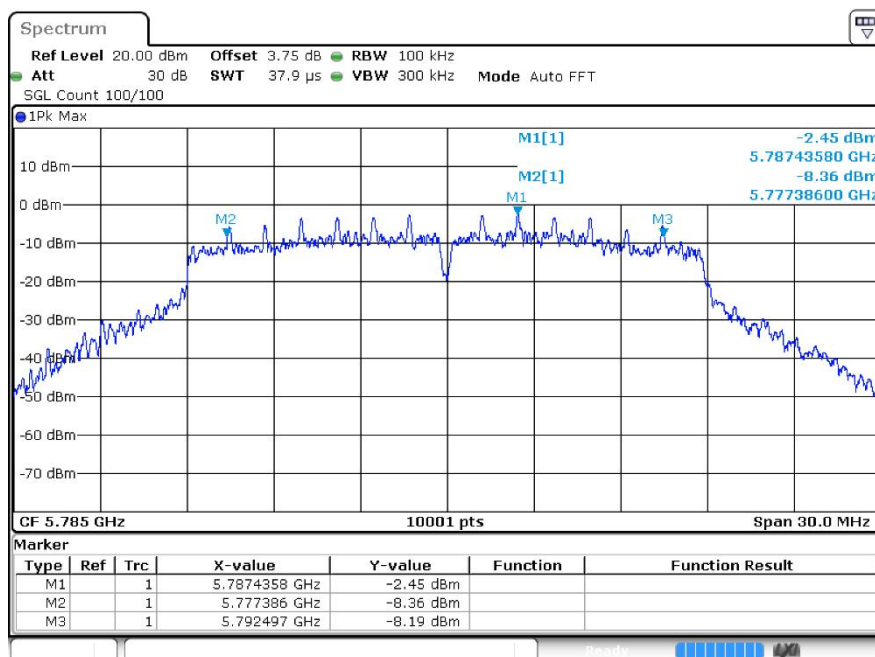
-6dB Bandwidth n40 5795MHz Ant1



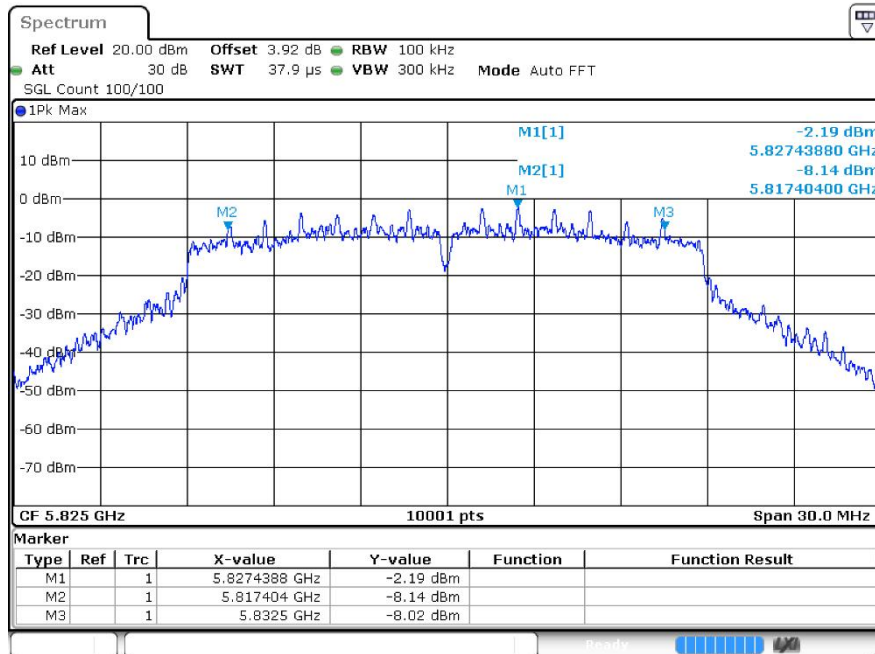
-6dB Bandwidth ac20 5745MHz Ant1



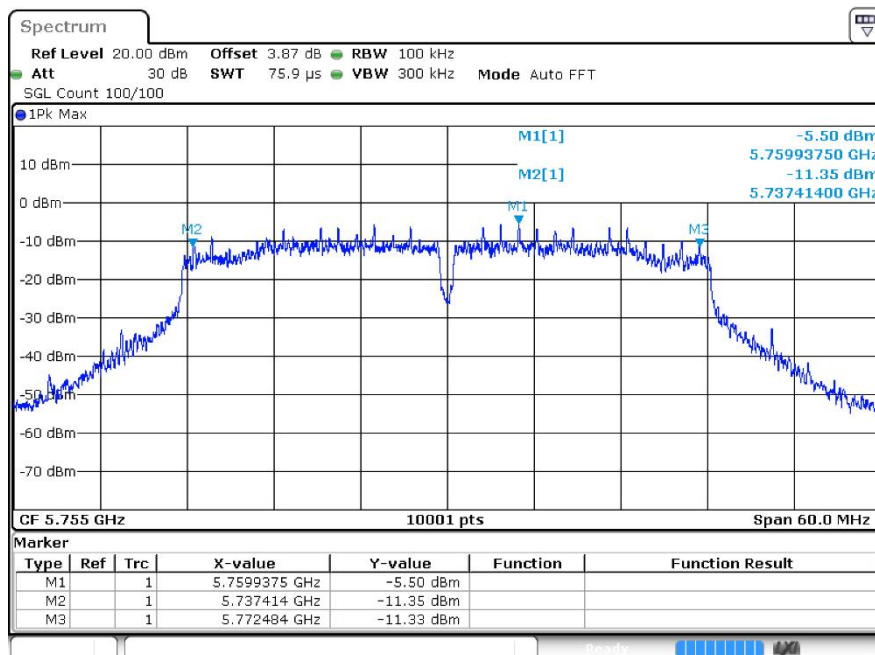
-6dB Bandwidth ac20 5785MHz Ant1



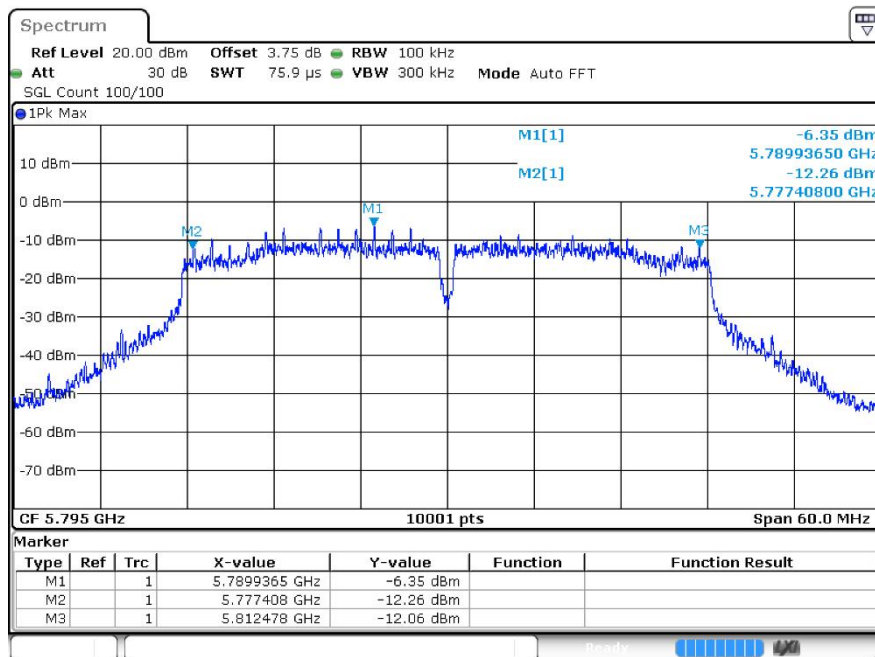
-6dB Bandwidth ac20 5825MHz Ant1



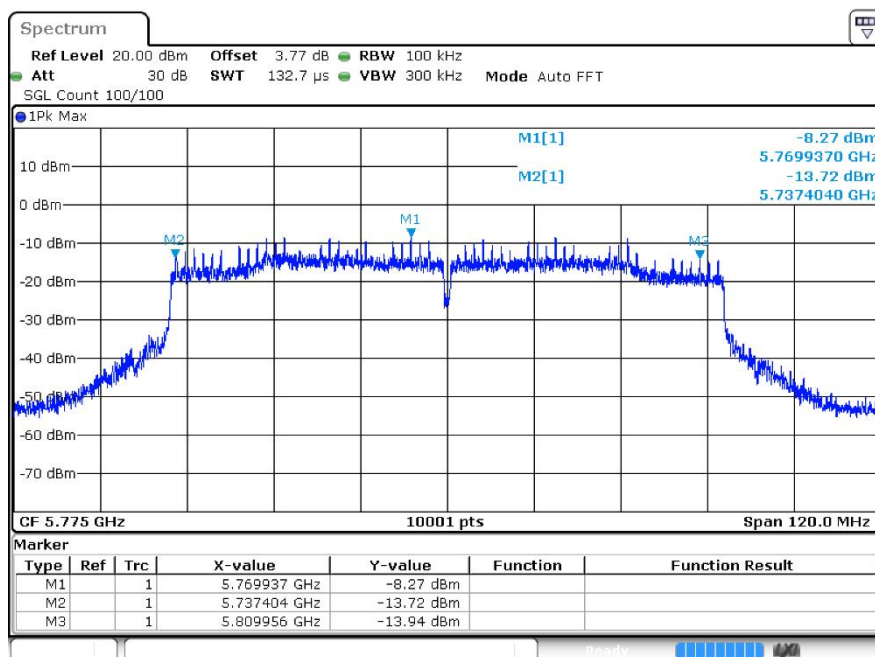
-6dB Bandwidth ac40 5755MHz Ant1



-6dB Bandwidth ac40 5795MHz Ant1



-6dB Bandwidth ac80 5775MHz Ant1



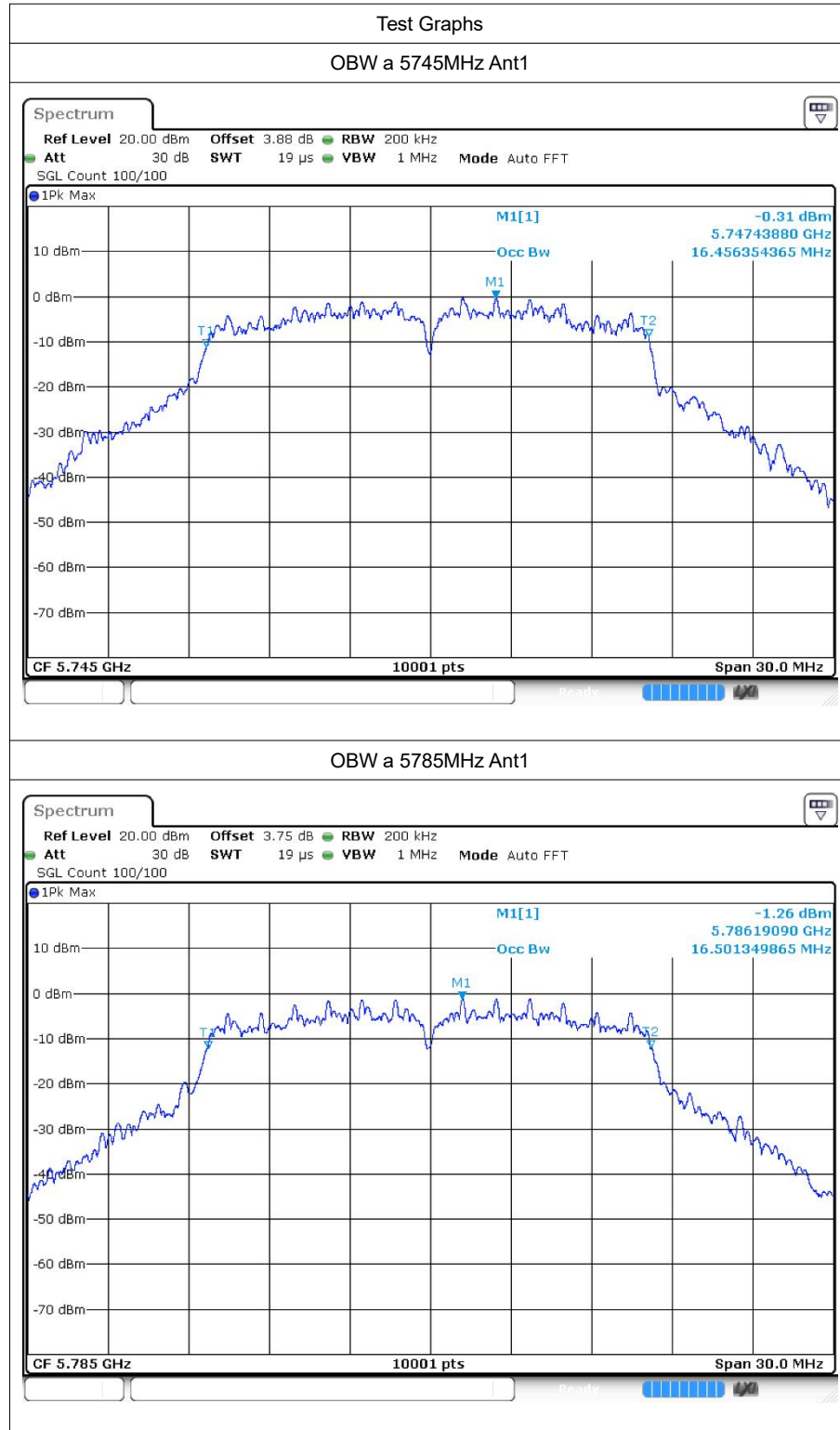


4 Occupied Channel Bandwidth

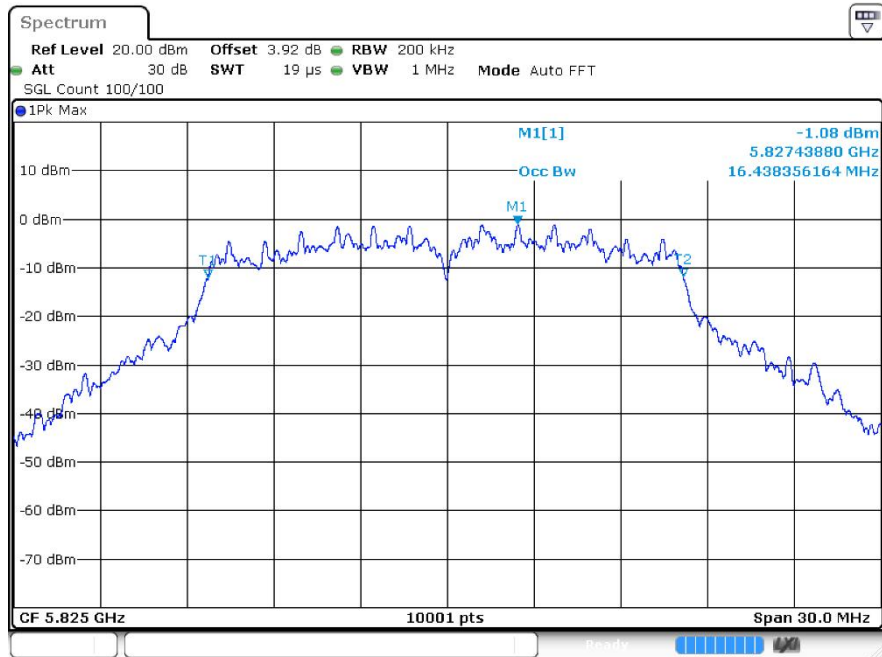
4.1 Test Result

Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
a	5745	Ant1	16.456
a	5785	Ant1	16.501
a	5825	Ant1	16.438
n20	5745	Ant1	17.611
n20	5785	Ant1	17.572
n20	5825	Ant1	17.65
n40	5755	Ant1	35.942
n40	5795	Ant1	36.05
ac20	5745	Ant1	17.563
ac20	5785	Ant1	17.536
ac20	5825	Ant1	17.605
ac40	5755	Ant1	36.044
ac40	5795	Ant1	36.134
ac80	5775	Ant1	75.172

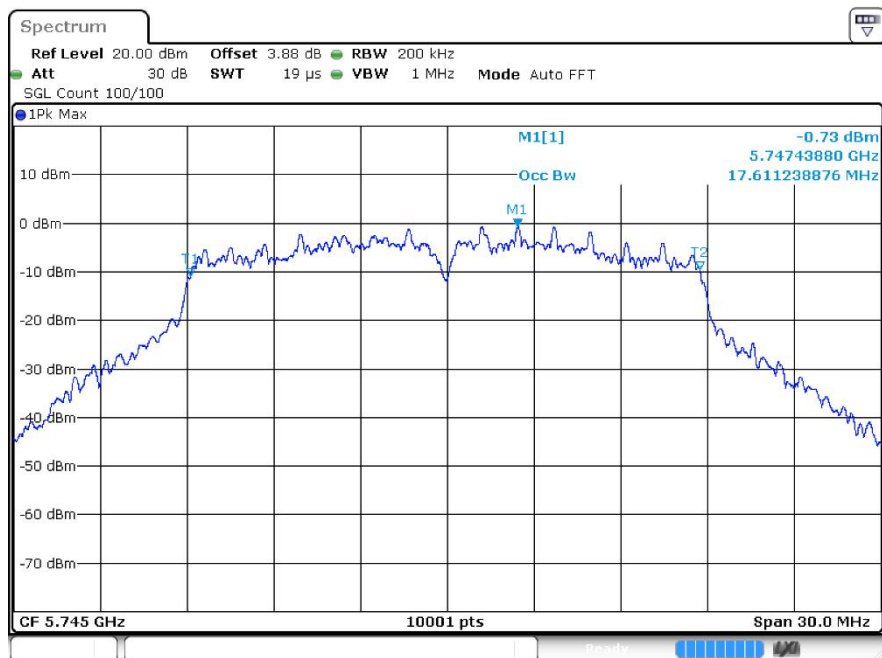
4.2 Test Graphs



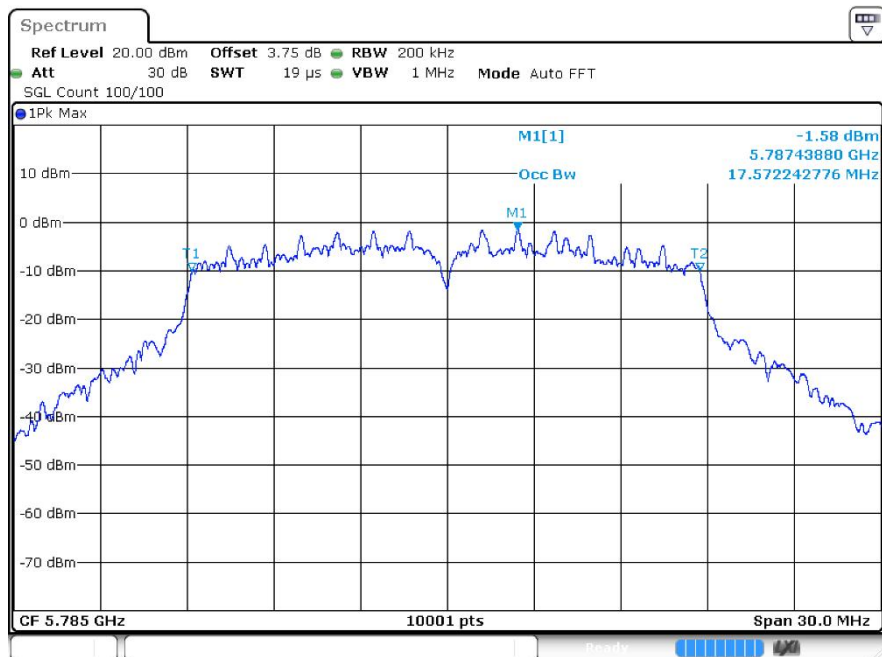
OBW a 5825MHz Ant1



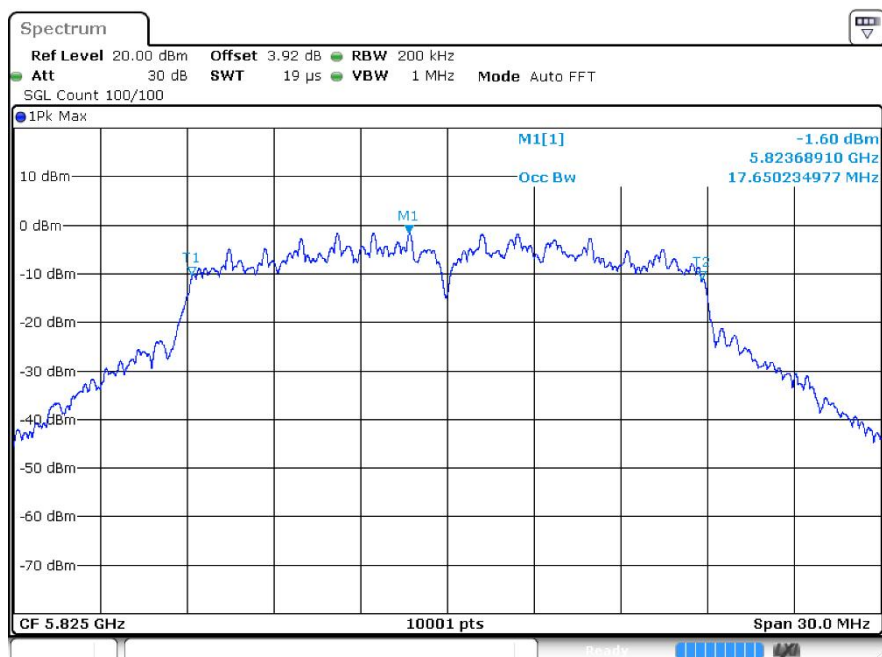
OBW n20 5745MHz Ant1



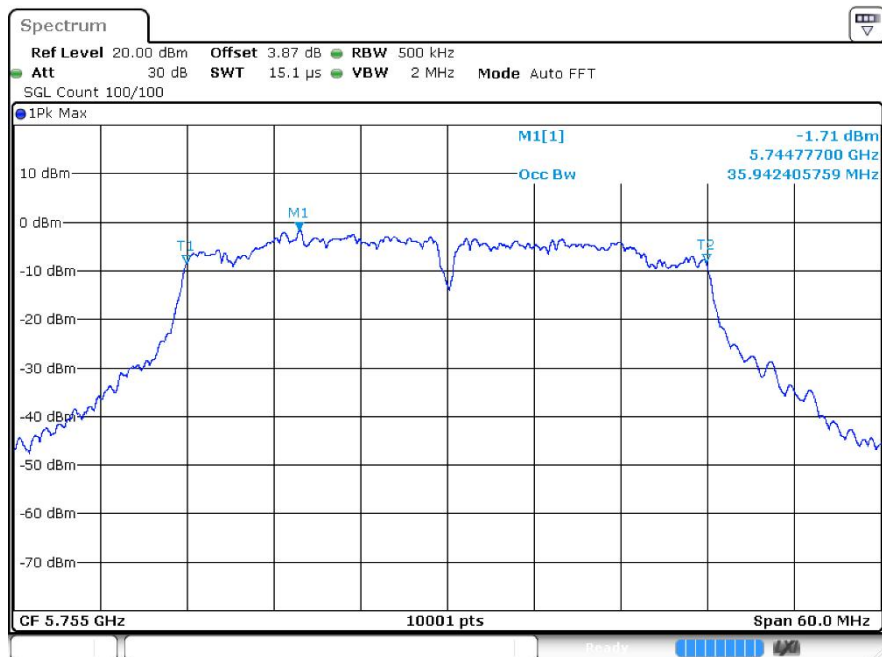
OBW n20 5785MHz Ant1



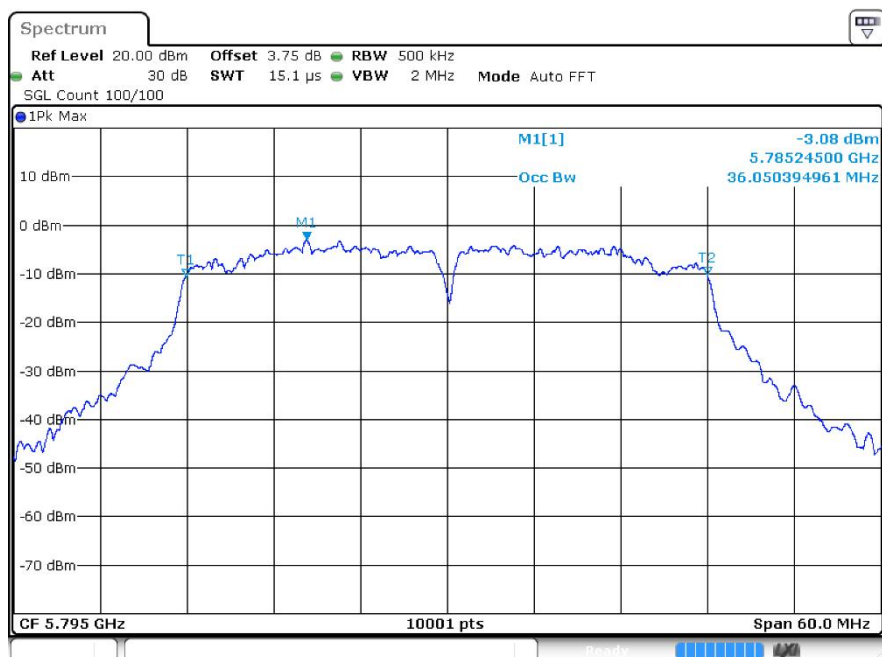
OBW n20 5825MHz Ant1



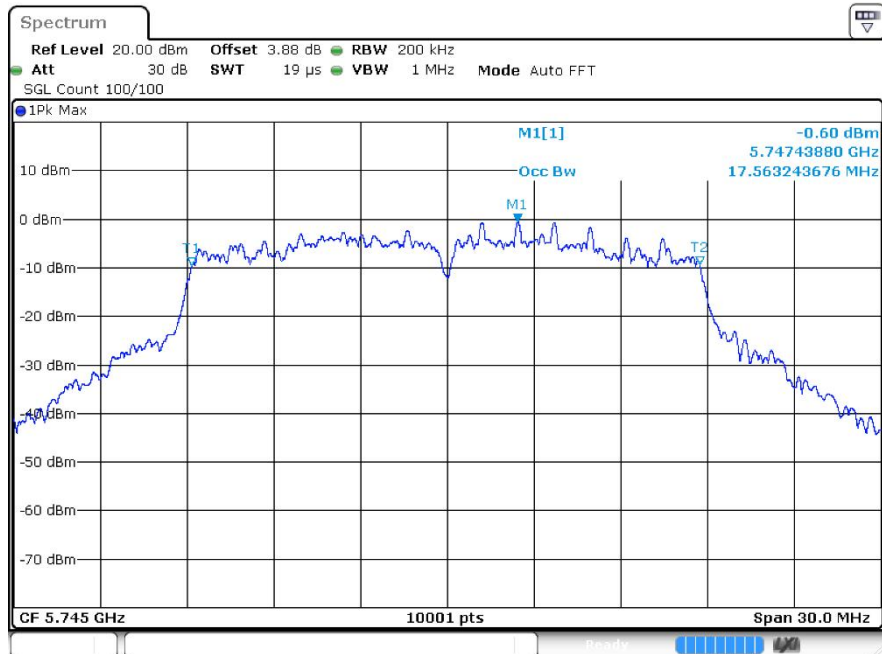
OBW n40 5755MHz Ant1



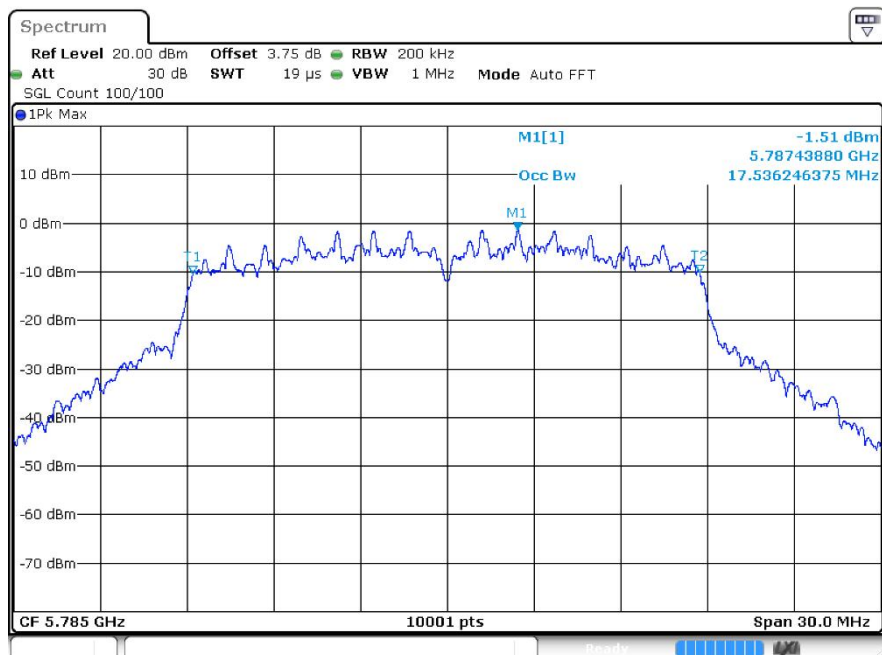
OBW n40 5795MHz Ant1



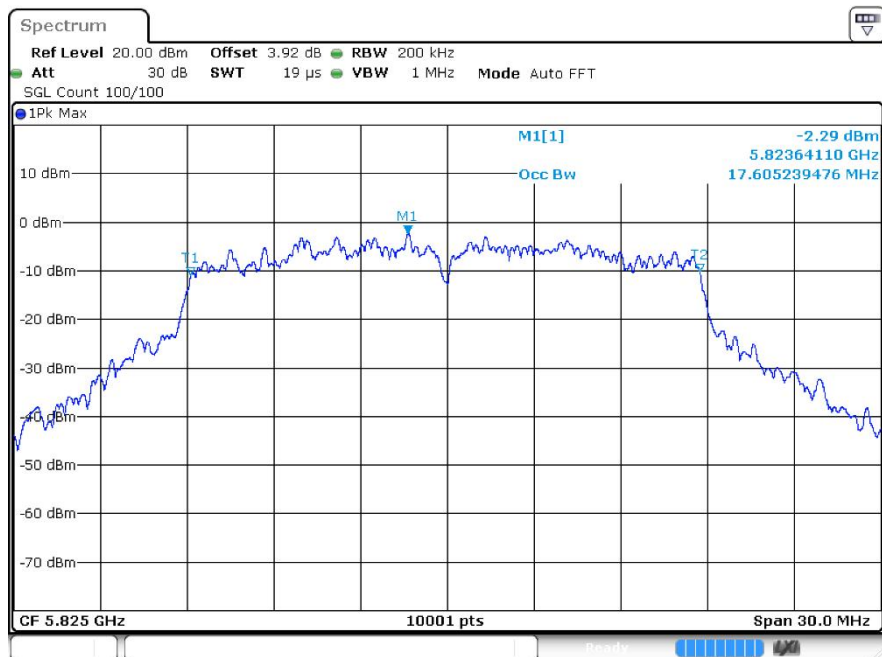
OBW ac20 5745MHz Ant1



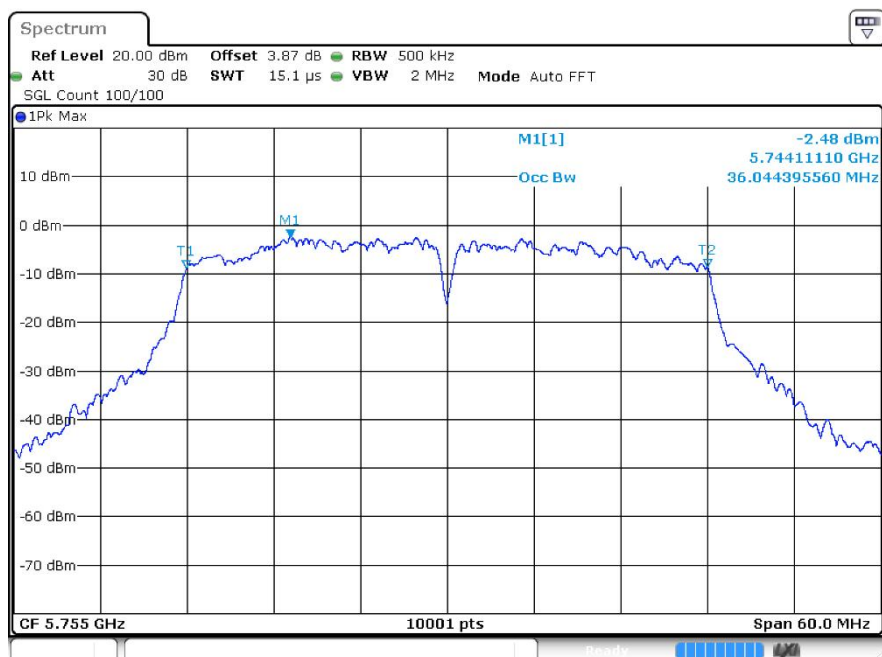
OBW ac20 5785MHz Ant1



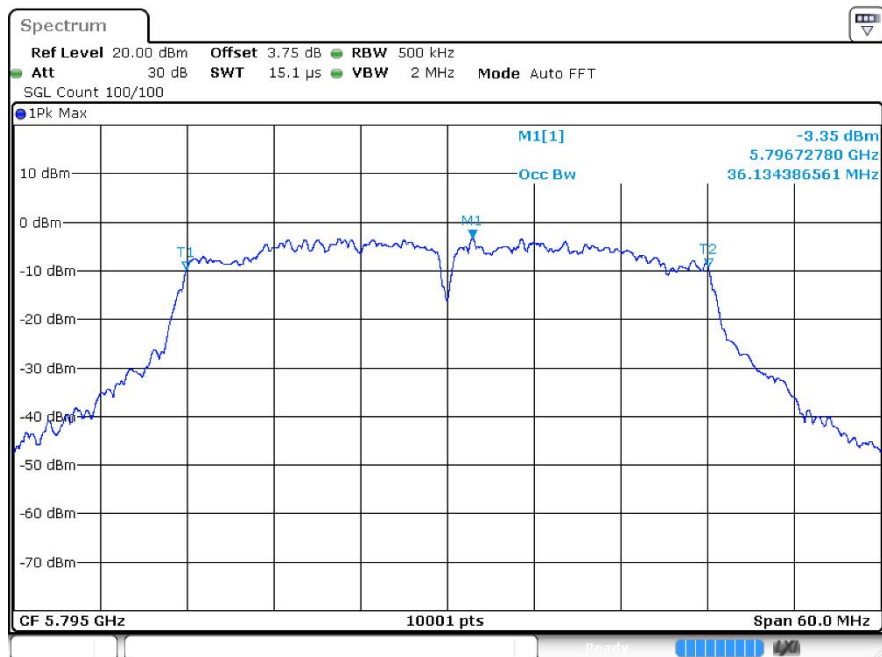
OBW ac20 5825MHz Ant1



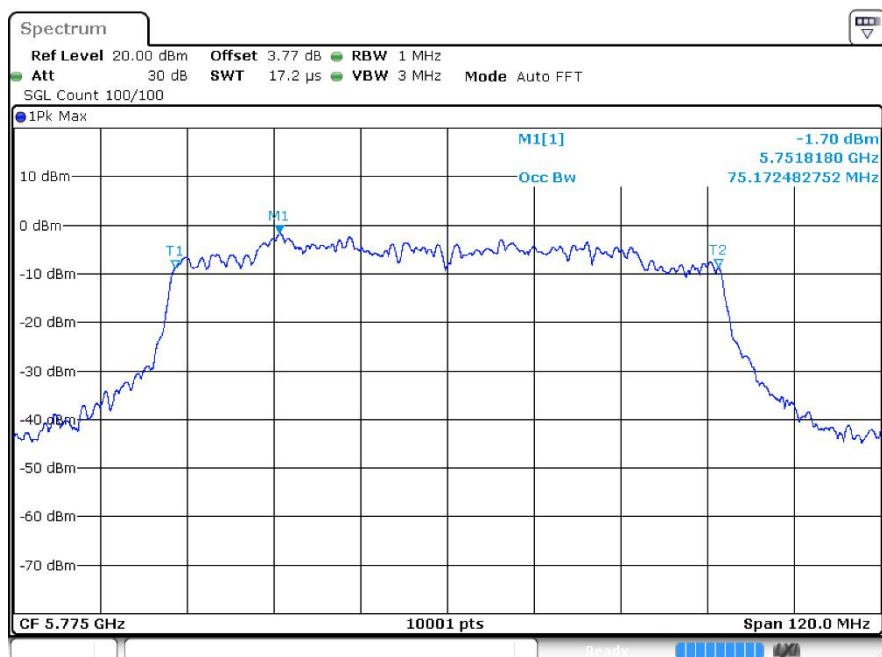
OBW ac40 5755MHz Ant1



OBW ac40 5795MHz Ant1



OBW ac80 5775MHz Ant1



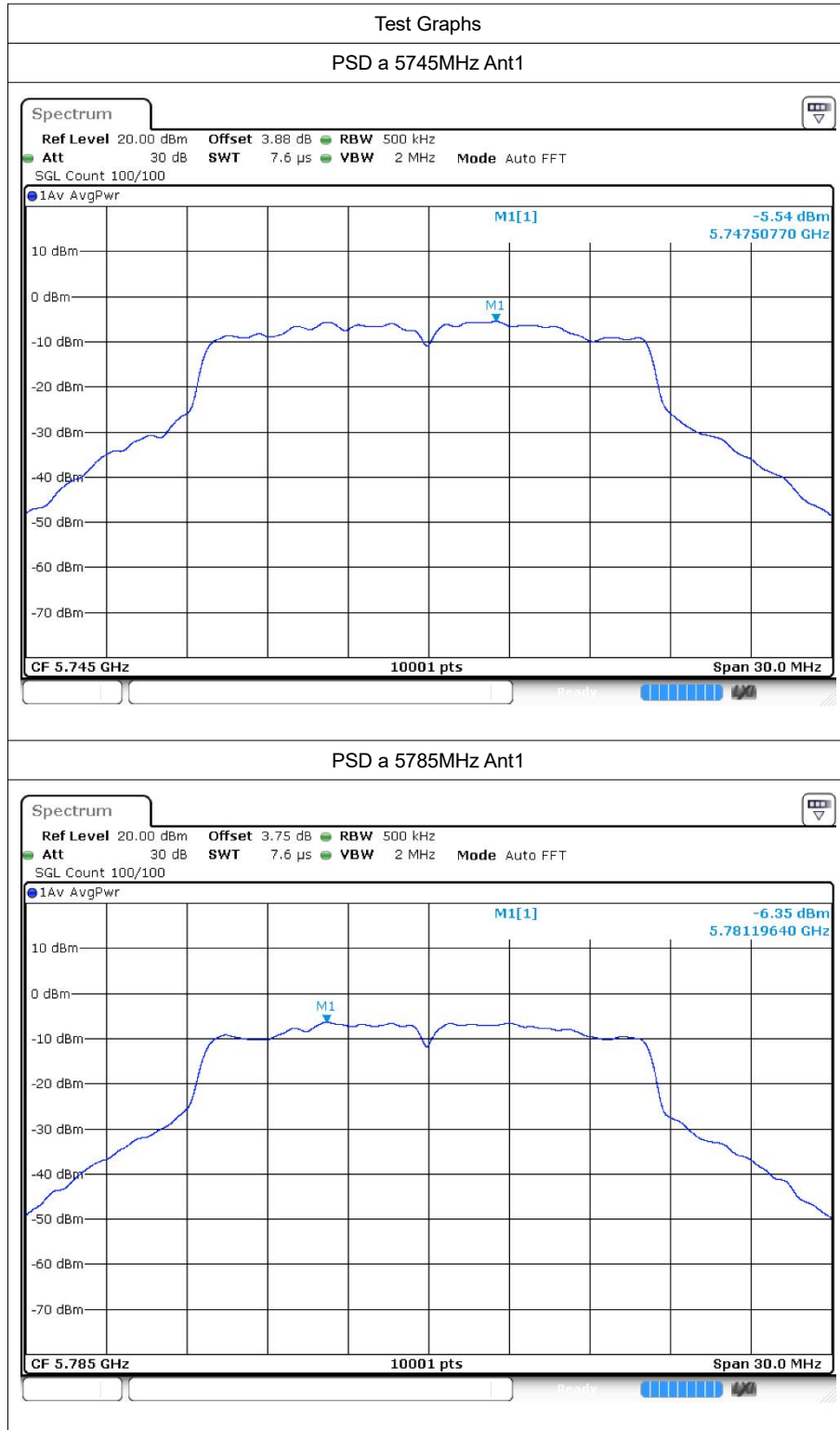


5 Maximum Power Spectral Density Level

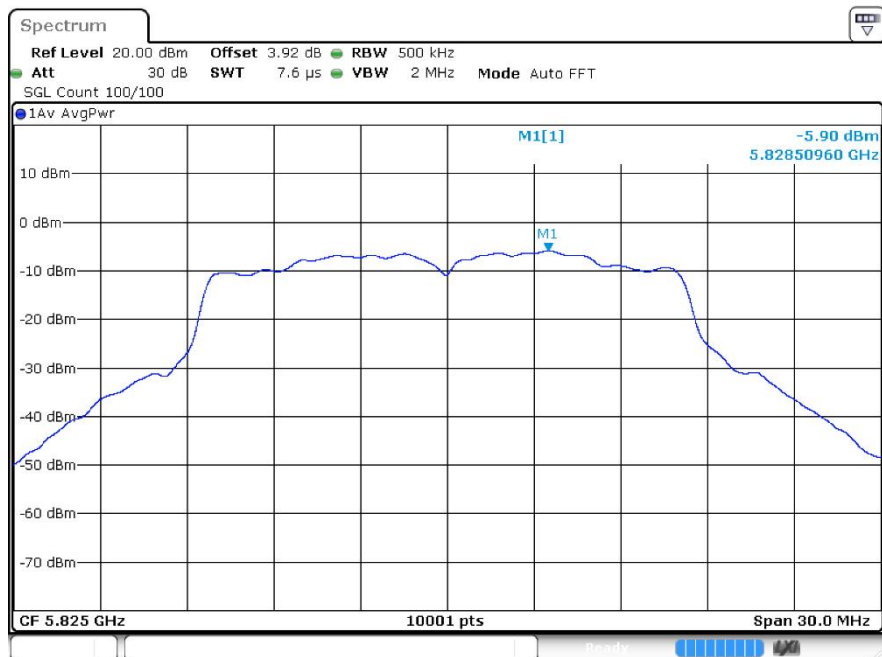
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	-5.54	0.61	-4.93	30	Pass
a	5785	Ant1	-6.35	0.61	-5.74	30	Pass
a	5825	Ant1	-5.9	0.61	-5.29	30	Pass
n20	5745	Ant1	-5.29	0.58	-4.71	30	Pass
n20	5785	Ant1	-6.44	0.57	-5.87	30	Pass
n20	5825	Ant1	-6.18	0.57	-5.61	30	Pass
n40	5755	Ant1	-9.65	0.55	-9.1	30	Pass
n40	5795	Ant1	-10.82	0.55	-10.27	30	Pass
ac20	5745	Ant1	-5.88	0.59	-5.29	30	Pass
ac20	5785	Ant1	-6.56	0.59	-5.97	30	Pass
ac20	5825	Ant1	-6.58	0.6	-5.98	30	Pass
ac40	5755	Ant1	-9.41	0.61	-8.8	30	Pass
ac40	5795	Ant1	-10.39	0.6	-9.79	30	Pass
ac80	5775	Ant1	-12.79	0.59	-12.2	30	Pass

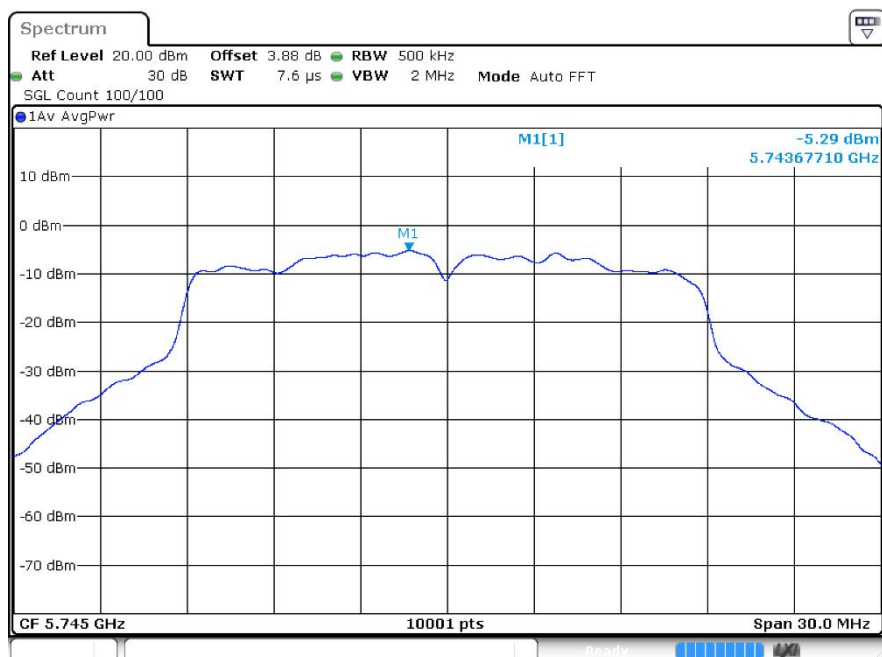
5.2 Test Graphs



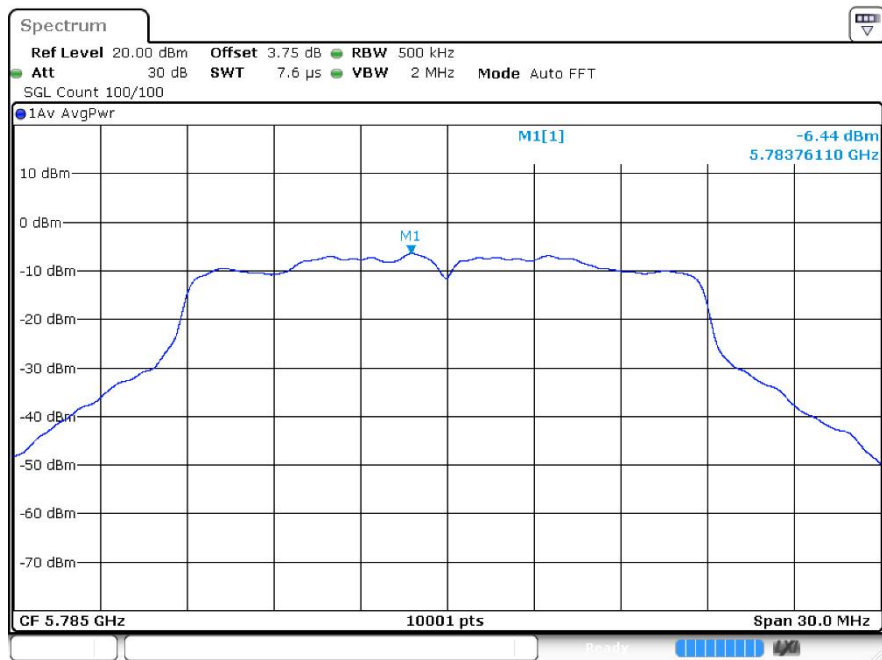
PSD a 5825MHz Ant1



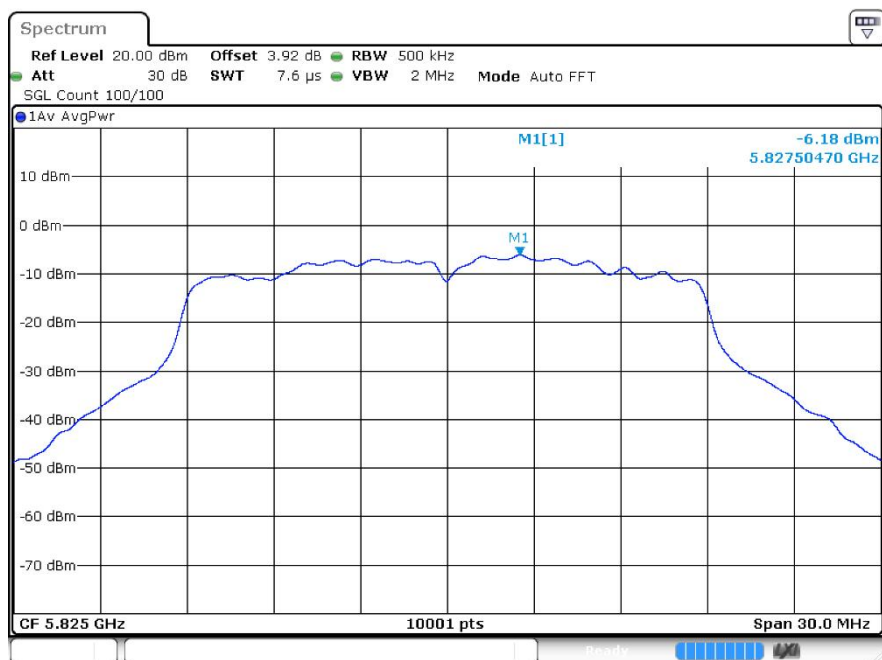
PSD n20 5745MHz Ant1



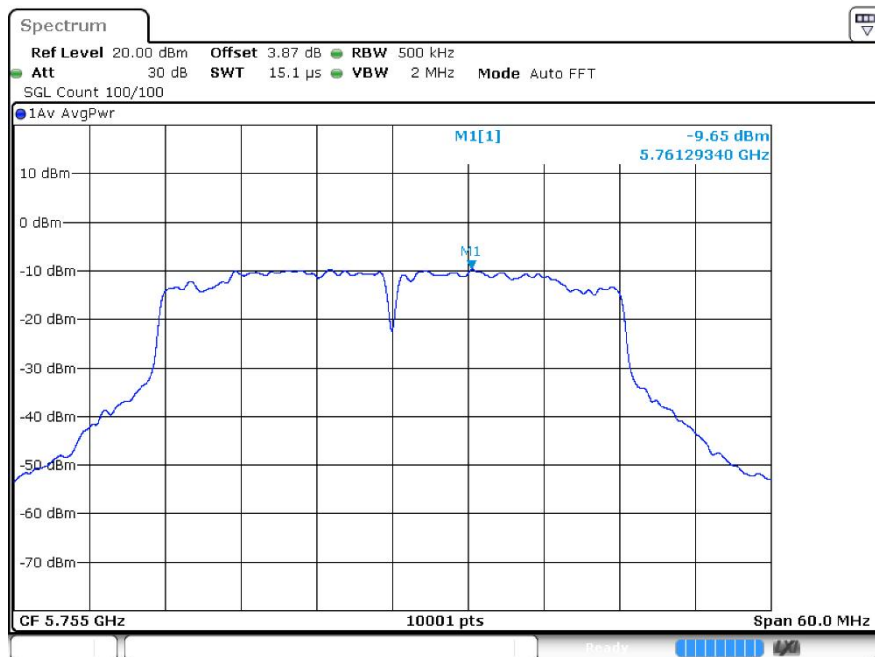
PSD n20 5785MHz Ant1



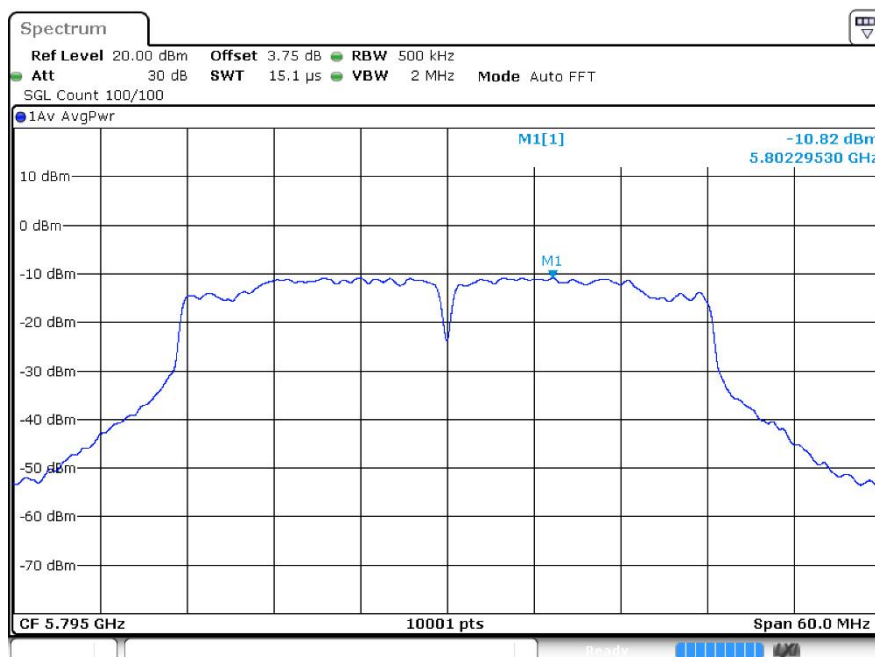
PSD n20 5825MHz Ant1



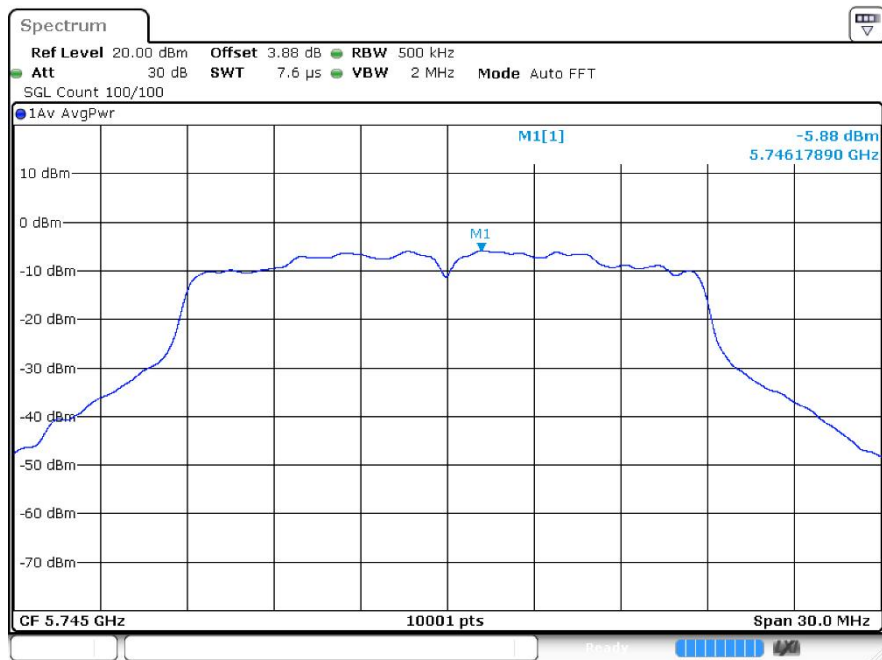
PSD n40 5755MHz Ant1



PSD n40 5795MHz Ant1



PSD ac20 5745MHz Ant1



PSD ac20 5785MHz Ant1

