



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: LED PROJECTOR

Trade Mark: Blackview

Test Model: PV1000 Max

Environmental Conditions

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



Contents

Page

COVER PAGE

1	Duty Cycle	3
1.1	Test Result	3
1.2	Test Graphs	4
2	Maximum Conducted Output Power	18
2.1	Test Result	18
3	-6dB Bandwidth	20
3.1	Test Result	20
3.2	Test Graphs	21
4	Occupied Channel Bandwidth	35
4.1	Test Result	35
4.2	Test Graphs	36
5	Maximum Power Spectral Density Level	50
5.1	Test Result	50
5.2	Test Graphs	52
6	Frequency Stability	66
6.1	Test Result	66
7	Conducted RF Spurious Emission	73
7.1	Test Result	73
7.2	Test Graphs	74
8	Restrict Band	88
8.1	Test Result	88
8.2	Test Graphs	93



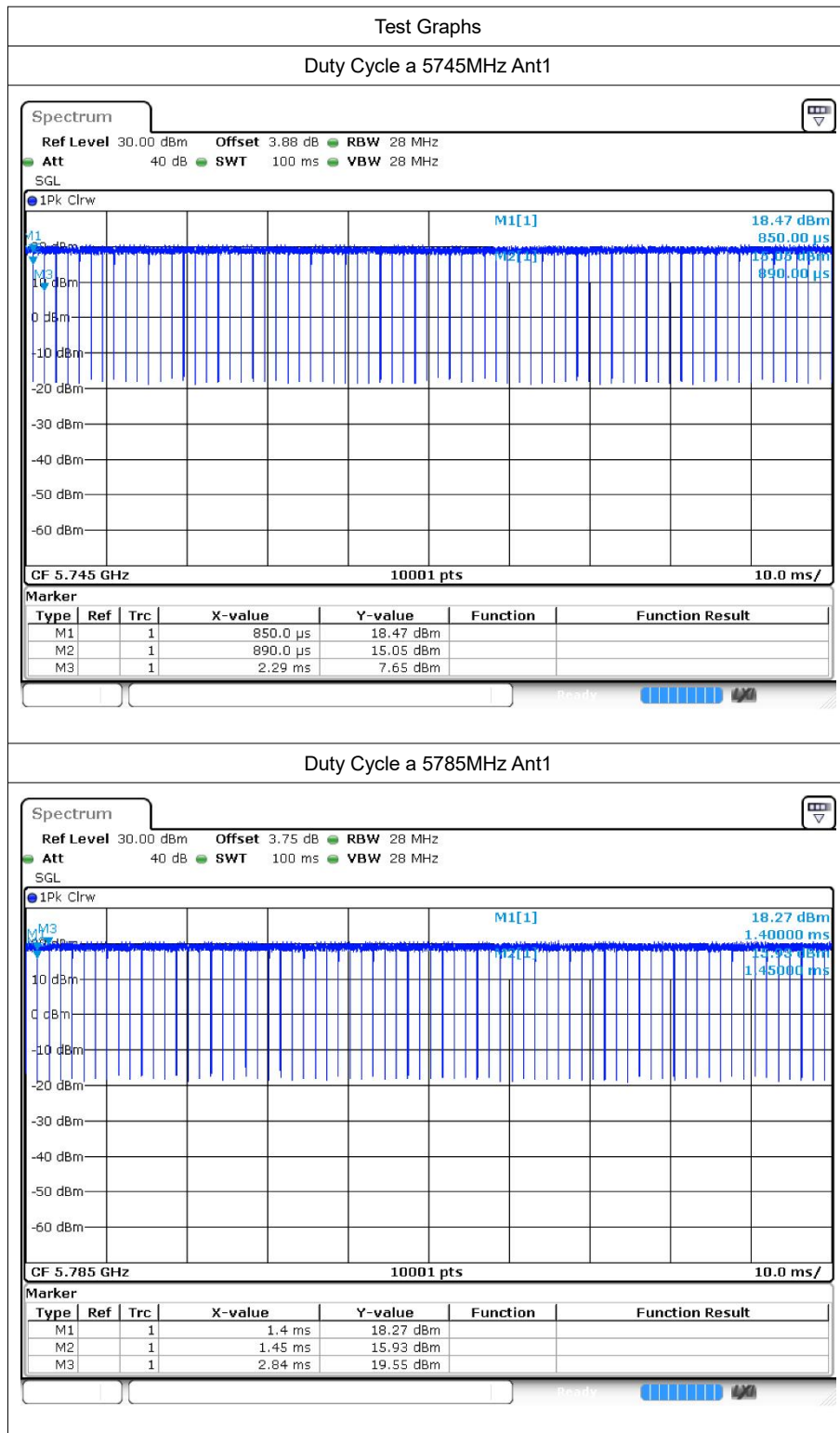
1 Duty Cycle

1.1 Test Result

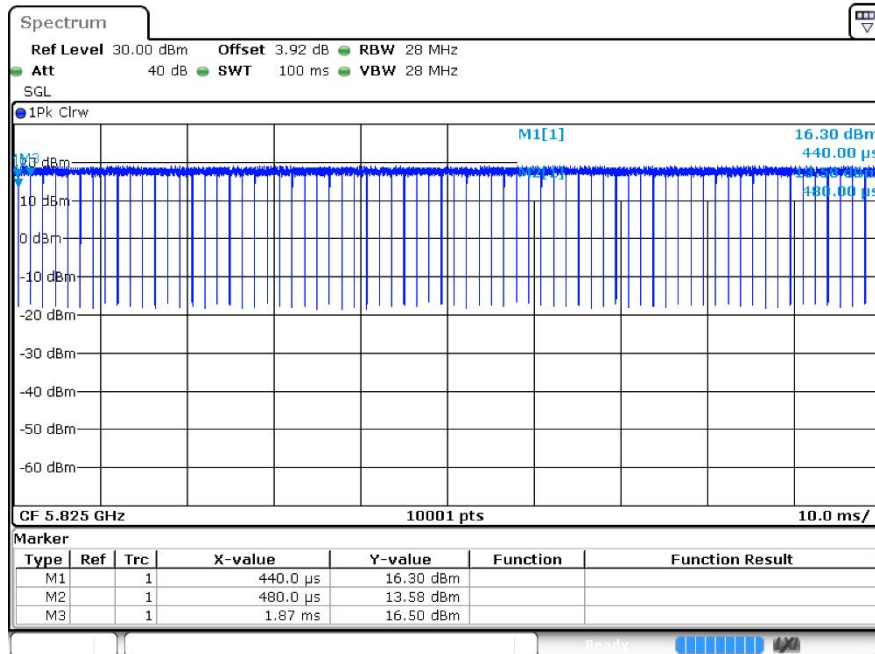
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	97.59	0.11	0.71
a	5785	Ant1	97.6	0.11	0.72
a	5825	Ant1	97.58	0.11	0.72
a	5745	Ant2	97.6	0.11	0.72
a	5785	Ant2	97.59	0.11	0.72
a	5825	Ant2	97.6	0.11	0.72
n20	5745	Ant1	97.42	0.11	0.77
n20	5785	Ant1	97.42	0.11	0.77
n20	5825	Ant1	97.39	0.11	0.77
n20	5745	Ant2	97.42	0.11	0.77
n20	5785	Ant2	97.39	0.11	0.77
n20	5825	Ant2	97.4	0.11	0.77
n40	5755	Ant1	95.1	0.22	1.54
n40	5795	Ant1	95.1	0.22	1.54
n40	5755	Ant2	95.07	0.22	1.54
n40	5795	Ant2	95.07	0.22	1.54
ac20	5745	Ant1	97.43	0.11	0.76
ac20	5785	Ant1	97.43	0.11	0.76
ac20	5825	Ant1	97.43	0.11	0.76
ac20	5745	Ant2	97.42	0.11	0.76
ac20	5785	Ant2	97.46	0.11	0.76
ac20	5825	Ant2	97.43	0.11	0.76
ac40	5755	Ant1	95.12	0.22	1.54
ac40	5795	Ant1	95.11	0.22	1.54
ac40	5755	Ant2	95.1	0.22	1.54
ac40	5795	Ant2	95.1	0.22	1.54
ac80	5775	Ant1	91.07	0.41	3.13
ac80	5775	Ant2	91.03	0.41	3.12



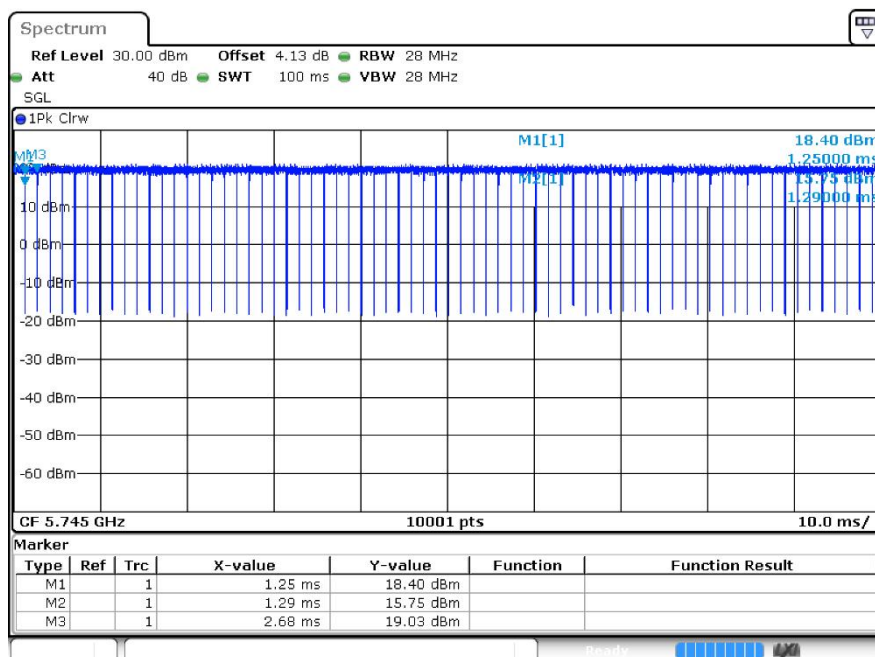
1.2 Test Graphs



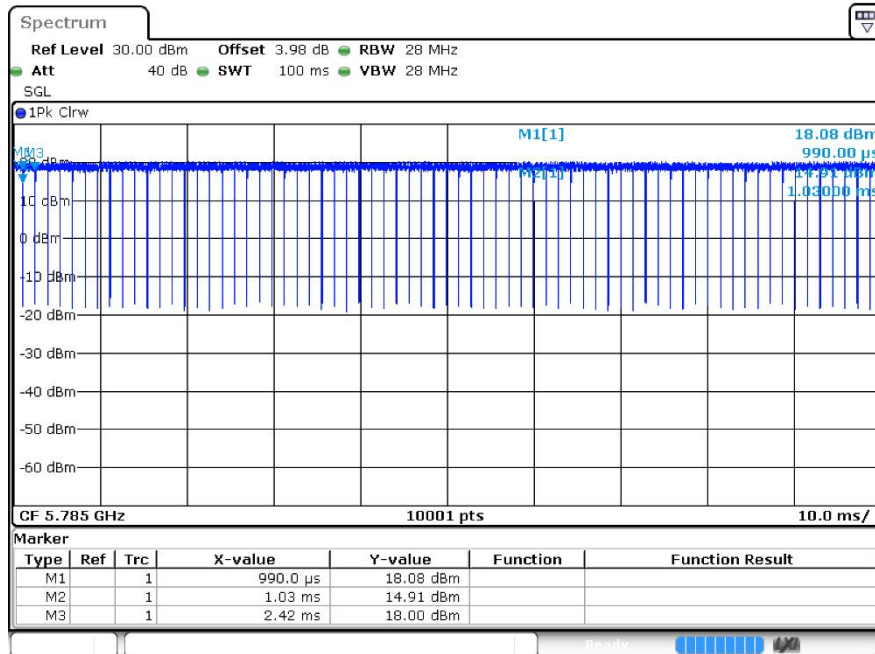
Duty Cycle a 5825MHz Ant1



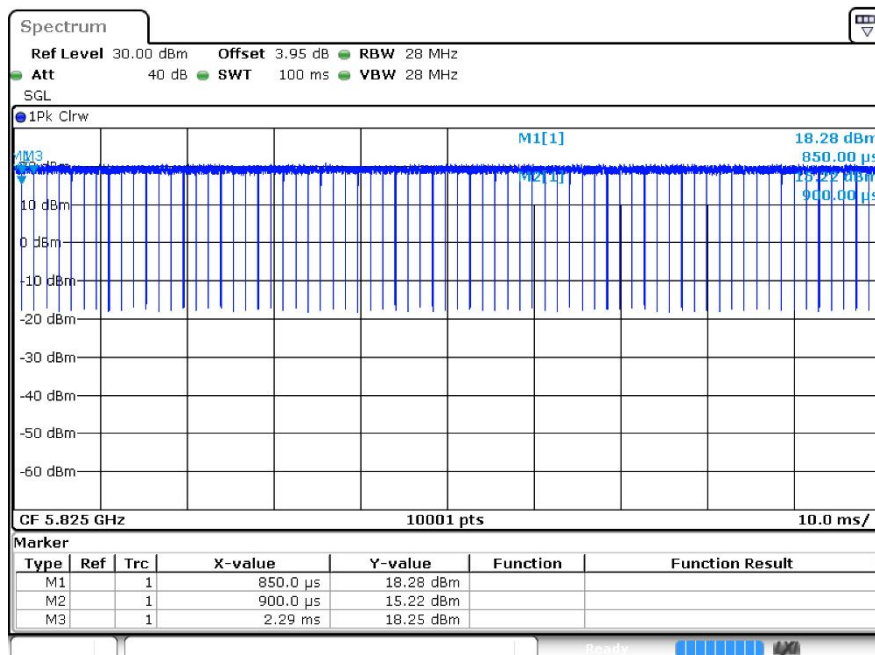
Duty Cycle a 5745MHz Ant2



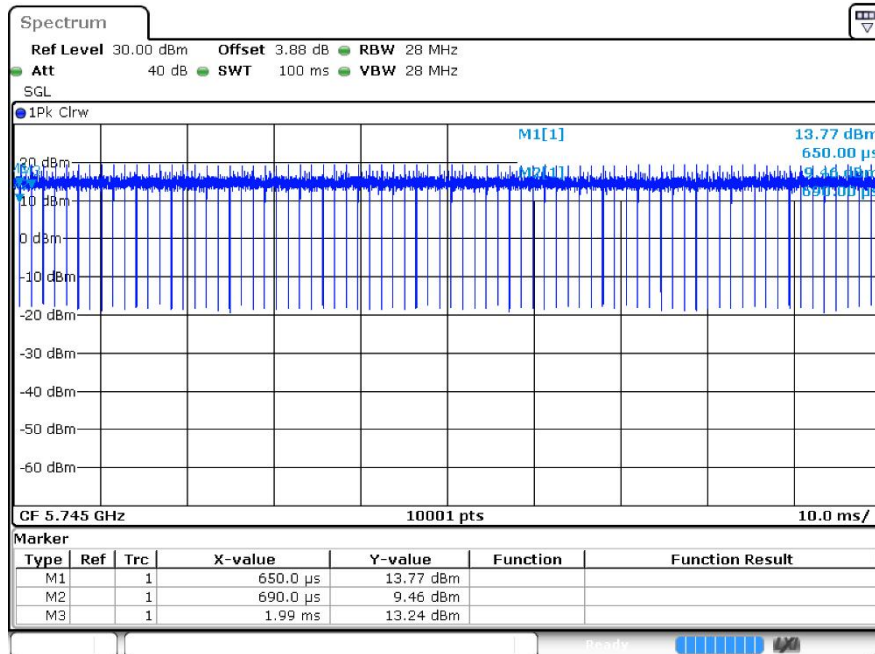
Duty Cycle a 5785MHz Ant2



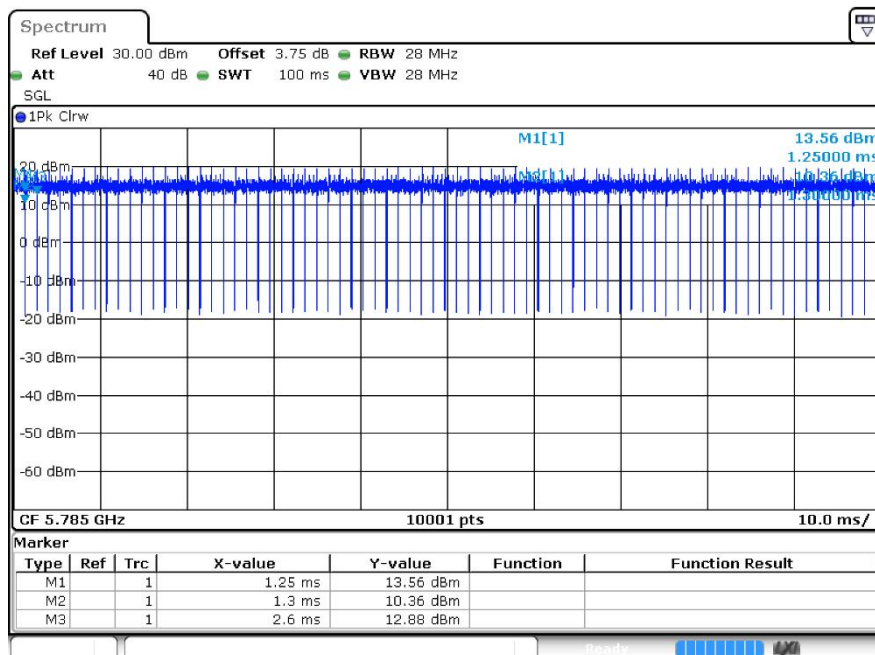
Duty Cycle a 5825MHz Ant2



Duty Cycle n20 5745MHz Ant1

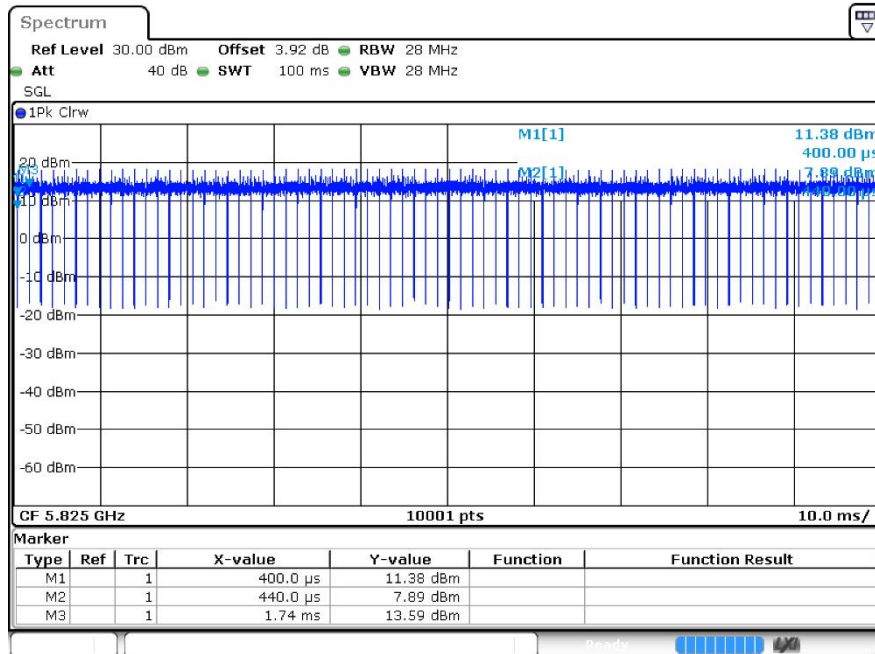


Duty Cycle n20 5785MHz Ant1

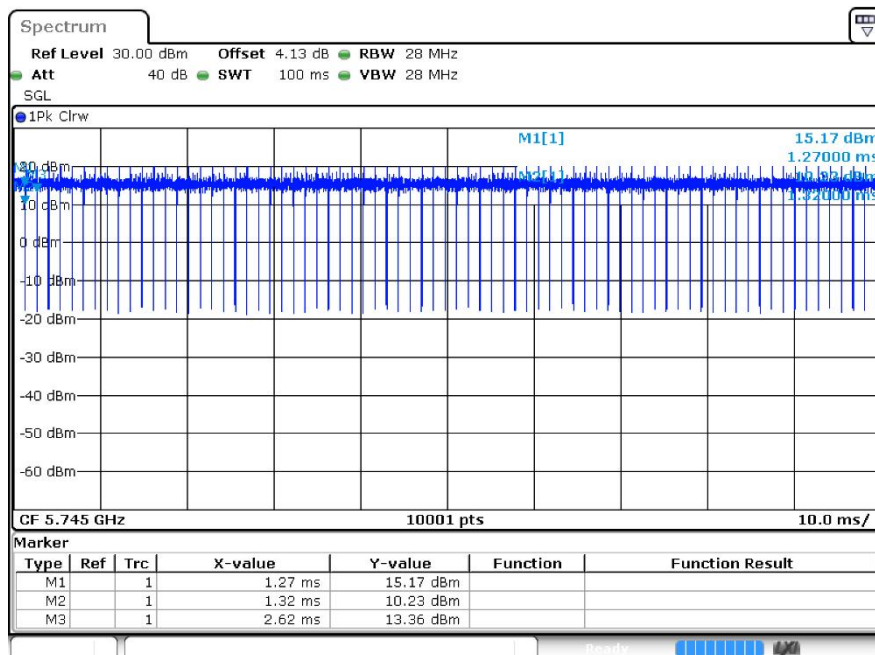




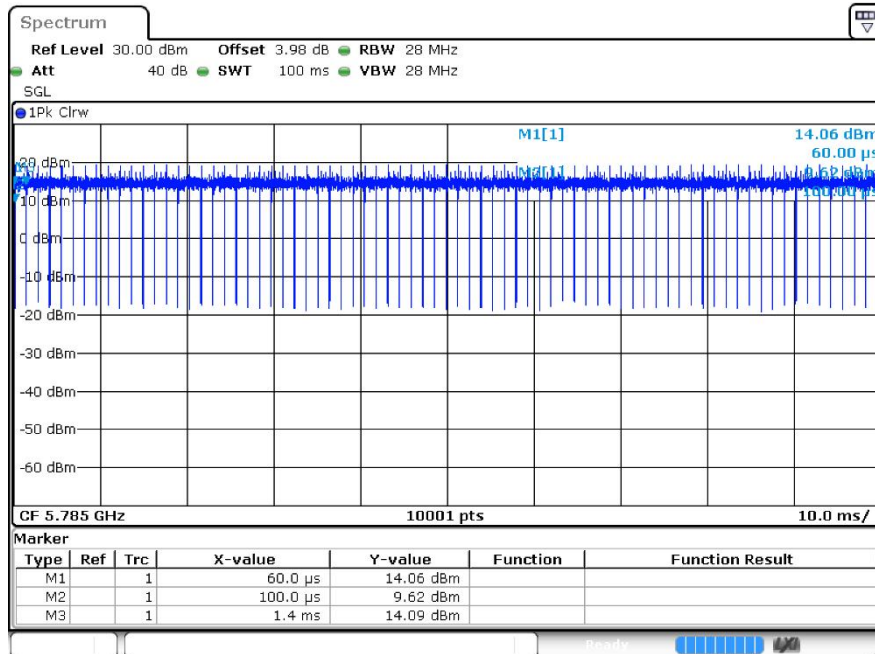
Duty Cycle n20 5825MHz Ant1



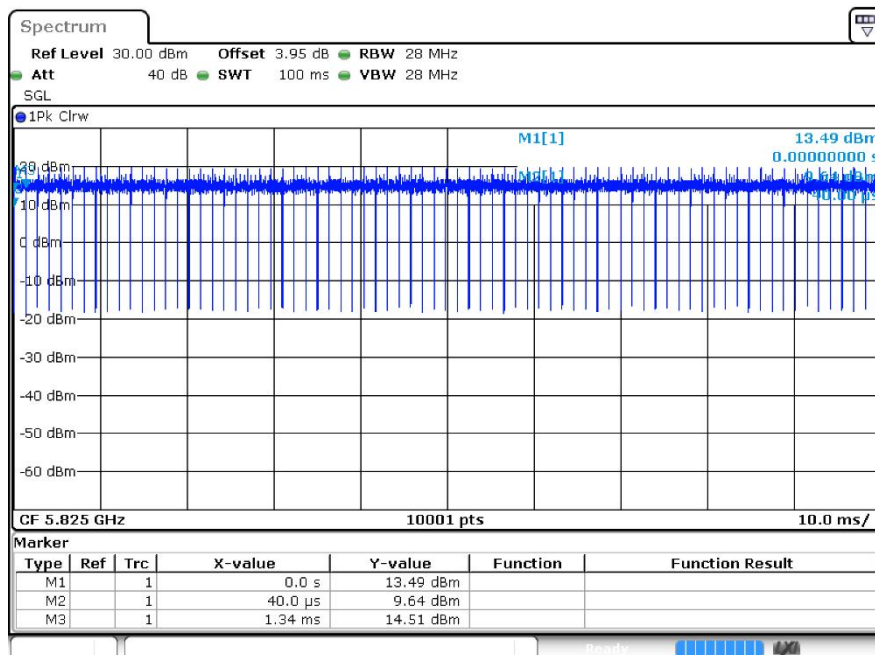
Duty Cycle n20 5745MHz Ant2



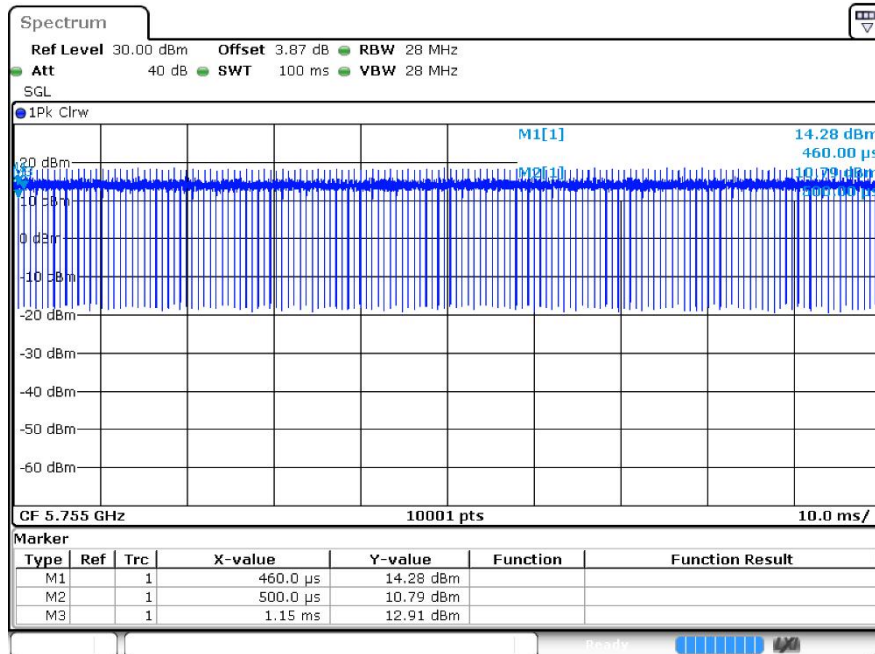
Duty Cycle n20 5785MHz Ant2



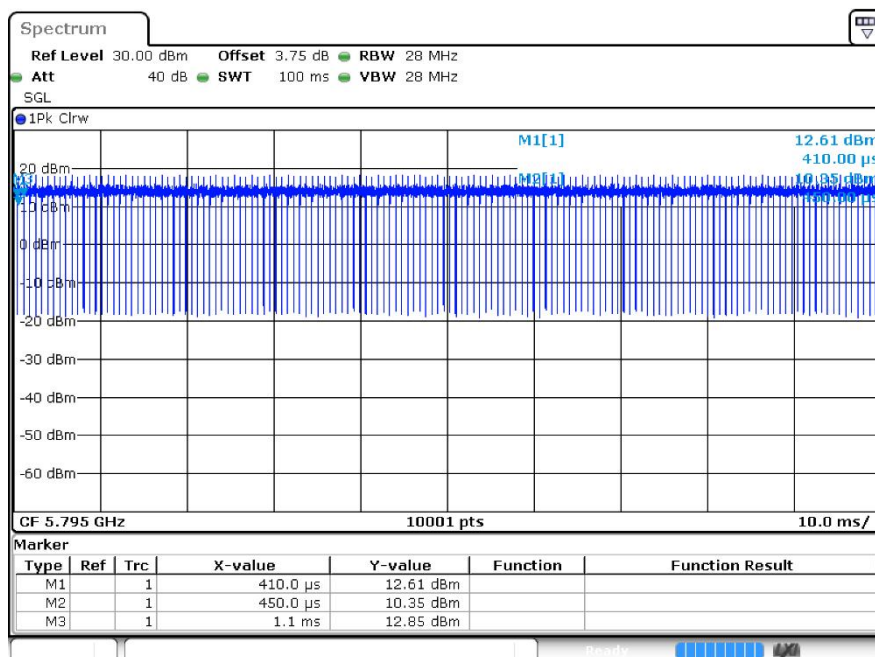
Duty Cycle n20 5825MHz Ant2



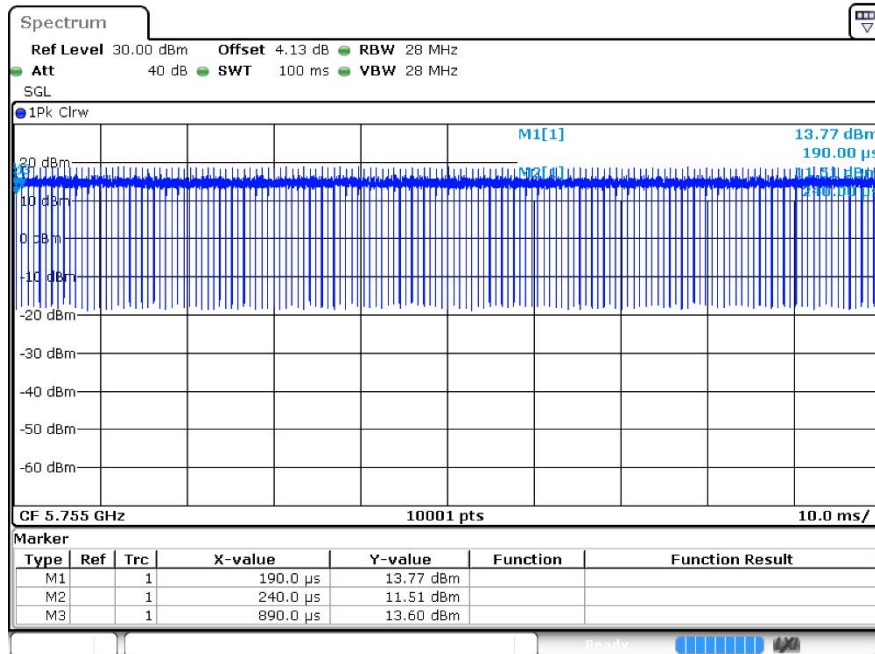
Duty Cycle n40 5755MHz Ant1



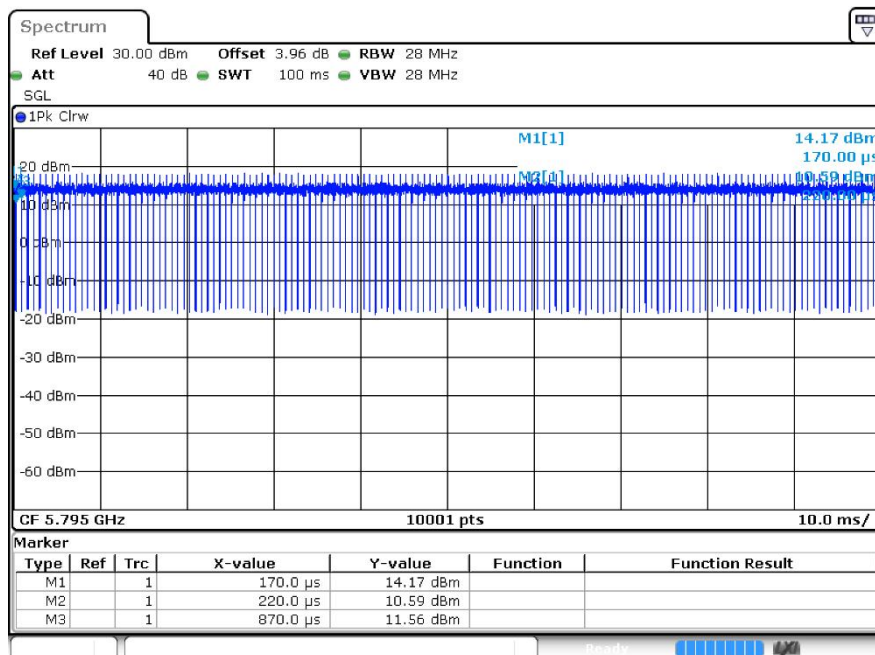
Duty Cycle n40 5795MHz Ant1



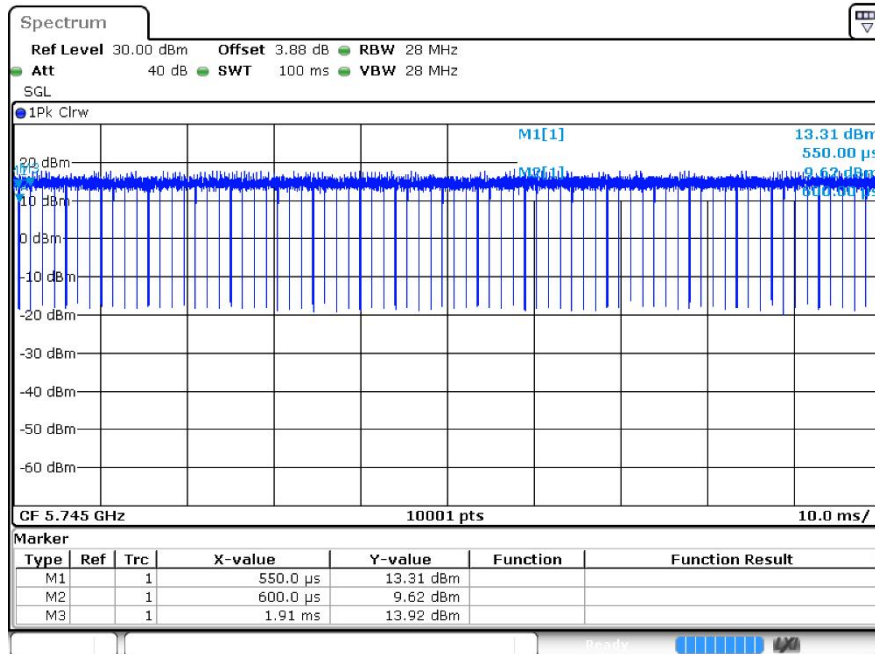
Duty Cycle n40 5755MHz Ant2



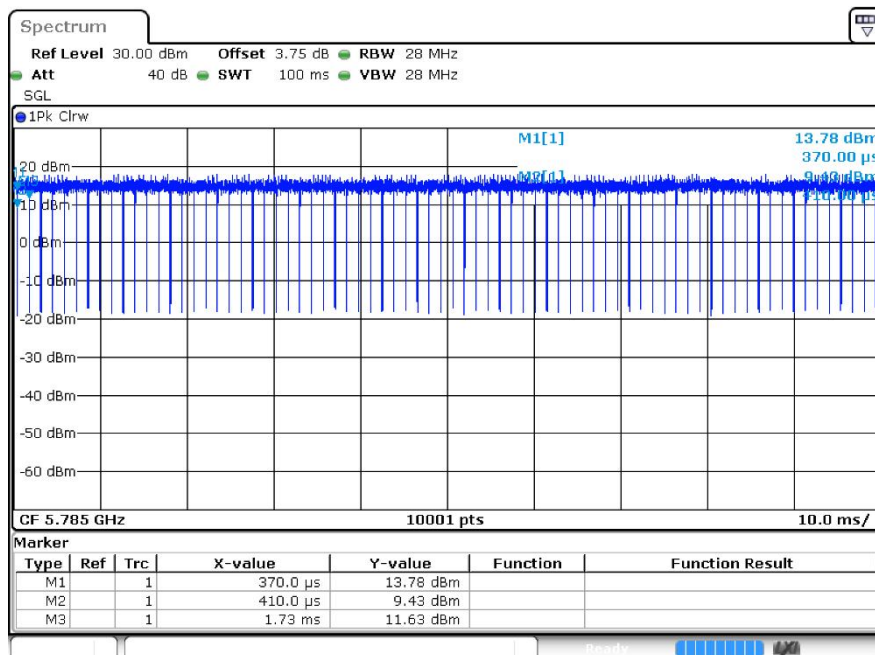
Duty Cycle n40 5795MHz Ant2



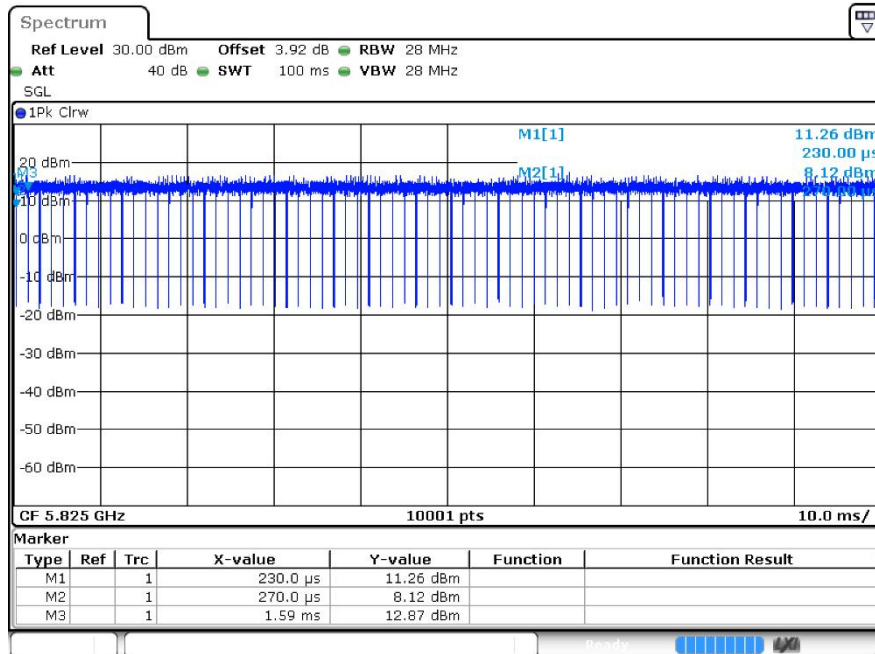
Duty Cycle ac20 5745MHz Ant1



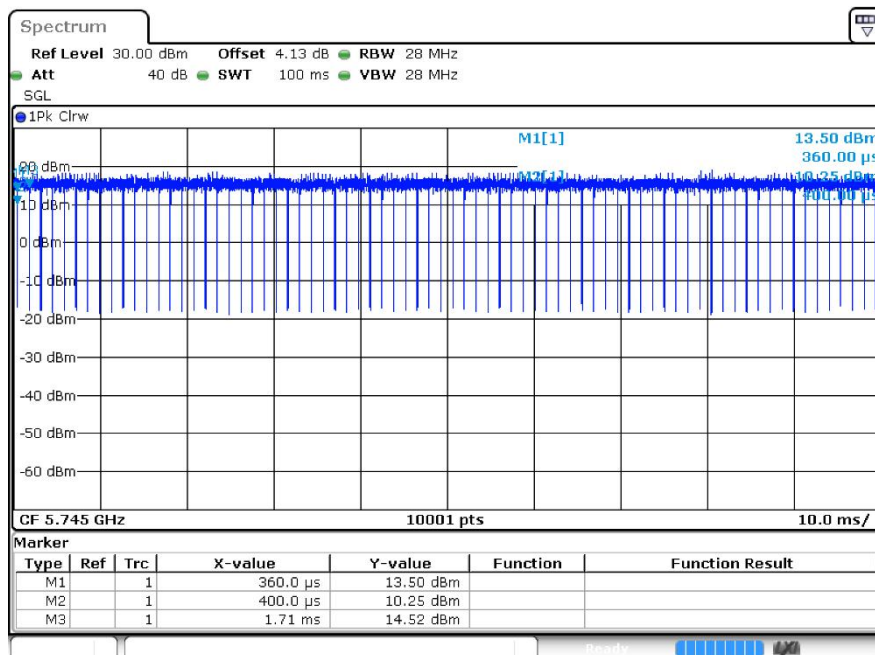
Duty Cycle ac20 5785MHz Ant1



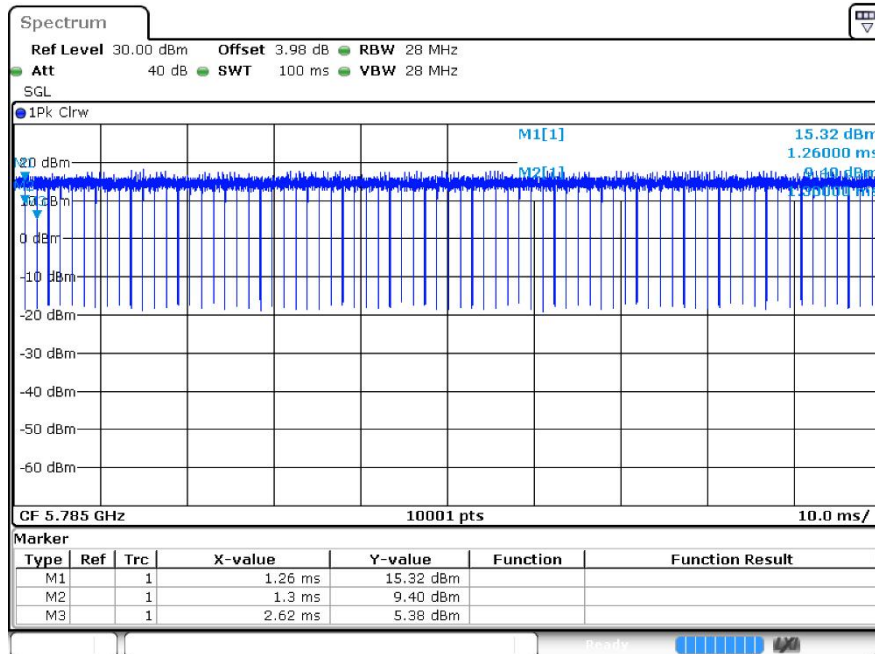
Duty Cycle ac20 5825MHz Ant1



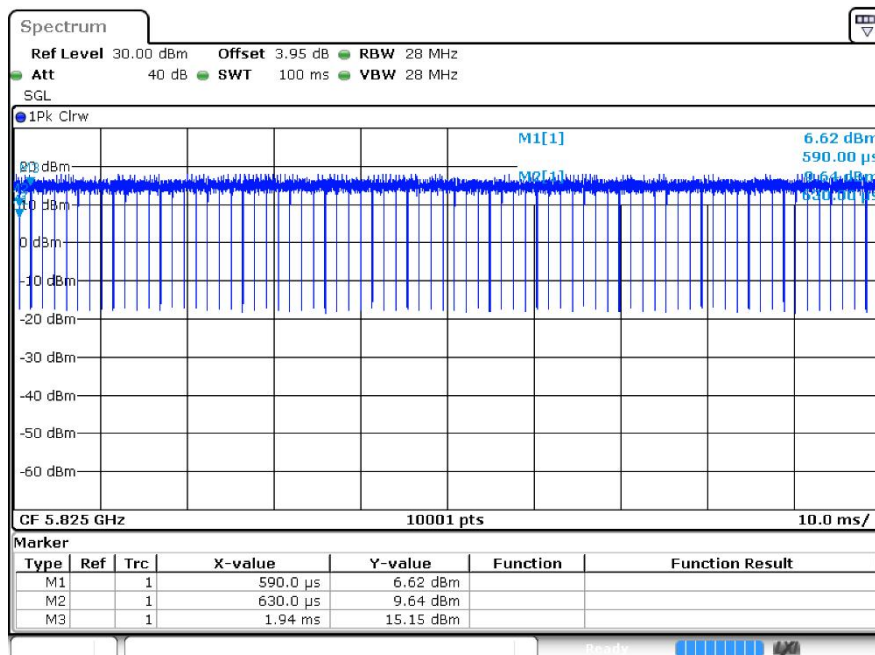
Duty Cycle ac20 5745MHz Ant2



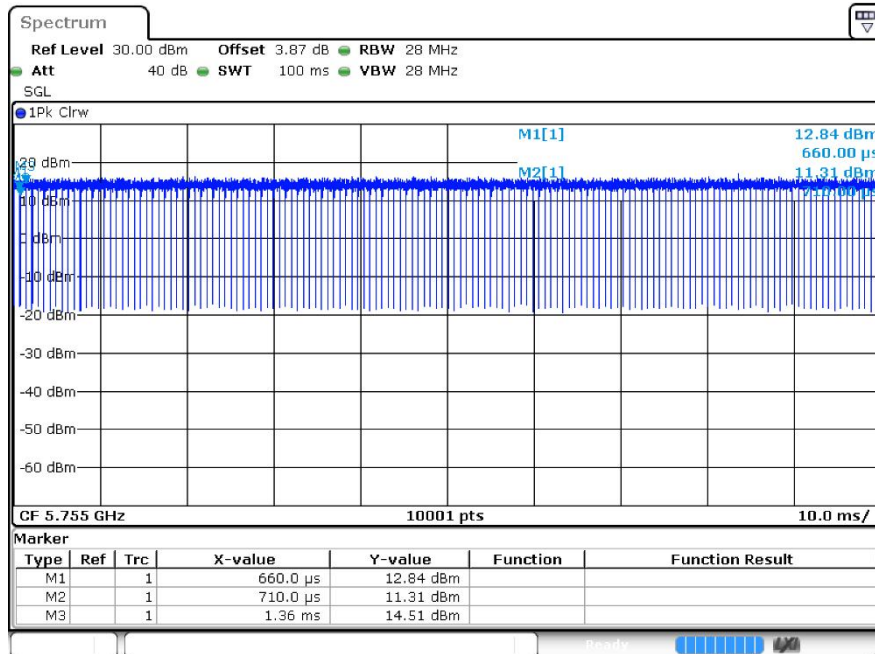
Duty Cycle ac20 5785MHz Ant2



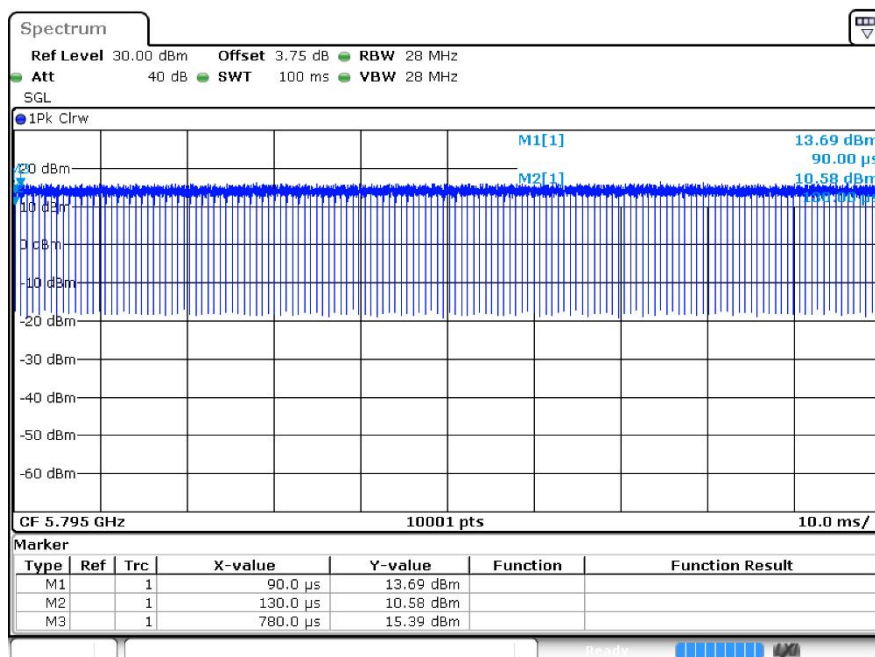
Duty Cycle ac20 5825MHz Ant2



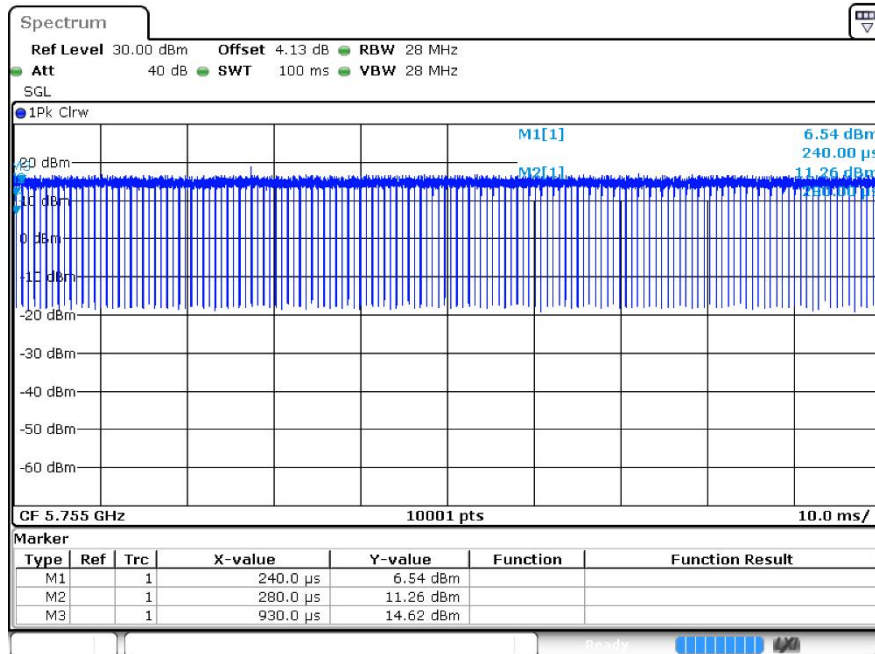
Duty Cycle ac40 5755MHz Ant1



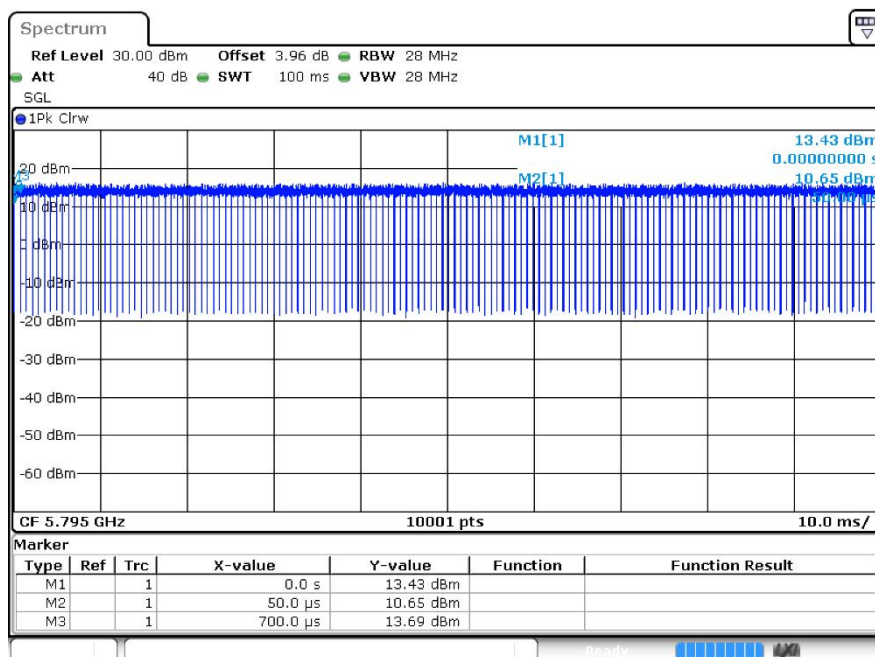
Duty Cycle ac40 5795MHz Ant1



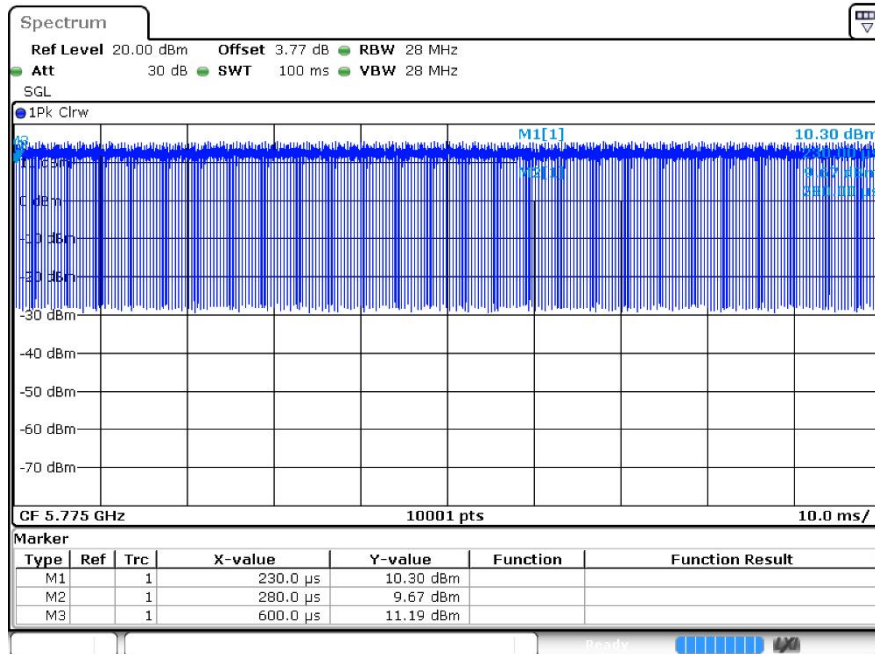
Duty Cycle ac40 5755MHz Ant2



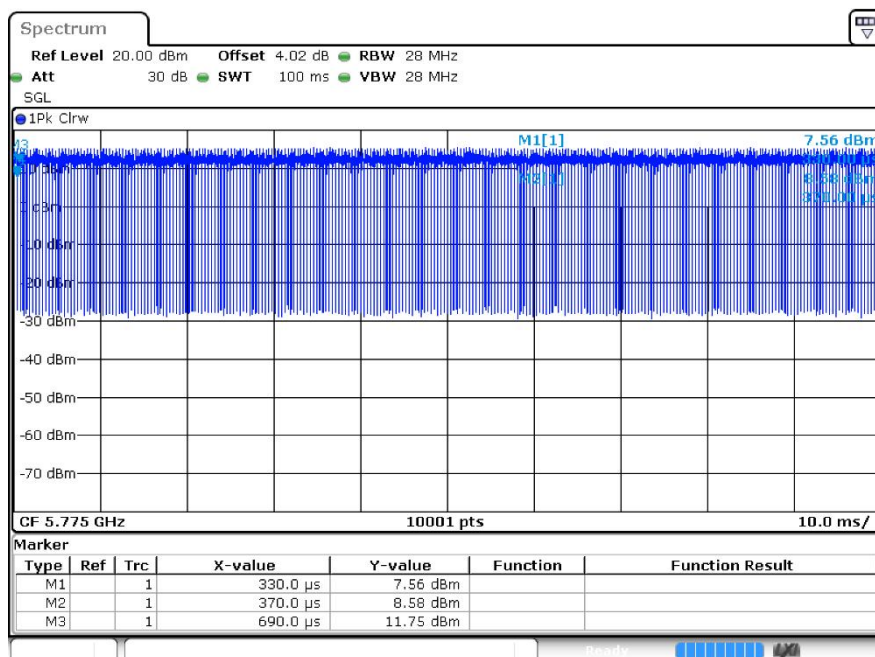
Duty Cycle ac40 5795MHz Ant2



Duty Cycle ac80 5775MHz Ant1



Duty Cycle ac80 5775MHz Ant2





2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	15.82	30	Pass
a	5785	Ant1	15.87	30	Pass
a	5825	Ant1	14.49	30	Pass
a	5745	Ant2	16.84	30	Pass
a	5785	Ant2	15.99	30	Pass
a	5825	Ant2	16.32	30	Pass
n20	5745	Ant1	10.46	30	Pass
n20	5745	Ant2	12.1	30	Pass
n20	5745	Sum	14.34	27.78	Pass
n20	5785	Ant1	10.55	30	Pass
n20	5785	Ant2	11.35	30	Pass
n20	5785	Sum	14.08	27.78	Pass
n20	5825	Ant1	9.11	30	Pass
n20	5825	Ant2	11.78	30	Pass
n20	5825	Sum	13.6	27.78	Pass
n40	5755	Ant1	10.33	30	Pass
n40	5755	Ant2	11.6	30	Pass
n40	5755	Sum	14.07	27.78	Pass
n40	5795	Ant1	10.3	30	Pass
n40	5795	Ant2	10.94	30	Pass
n40	5795	Sum	13.62	27.78	Pass
ac20	5745	Ant1	10.39	30	Pass
ac20	5745	Ant2	12.21	30	Pass
ac20	5745	Sum	14.5	27.78	Pass
ac20	5785	Ant1	10.5	30	Pass
ac20	5785	Ant2	11.46	30	Pass
ac20	5785	Sum	13.92	27.78	Pass
ac20	5825	Ant1	9.08	30	Pass
ac20	5825	Ant2	11.76	30	Pass
ac20	5825	Sum	13.57	27.78	Pass
ac40	5755	Ant1	10.35	30	Pass
ac40	5755	Ant2	11.73	30	Pass
ac40	5755	Sum	14.13	27.78	Pass
ac40	5795	Ant1	10.3	30	Pass
ac40	5795	Ant2	11.1	30	Pass
ac40	5795	Sum	13.7	27.78	Pass



ac80	5775	Ant1	10.18	30	Pass
ac80	5775	Ant2	10.78	30	Pass
ac80	5775	Sum	13.55	27.78	Pass

Note:

The duty factor has been compensated into the result.

The MIMO gain of antenna is 8.22 dBi, which exceeds 6 dBi. Limit = $30 - (8.22 - 6) = 27.78$ dBm

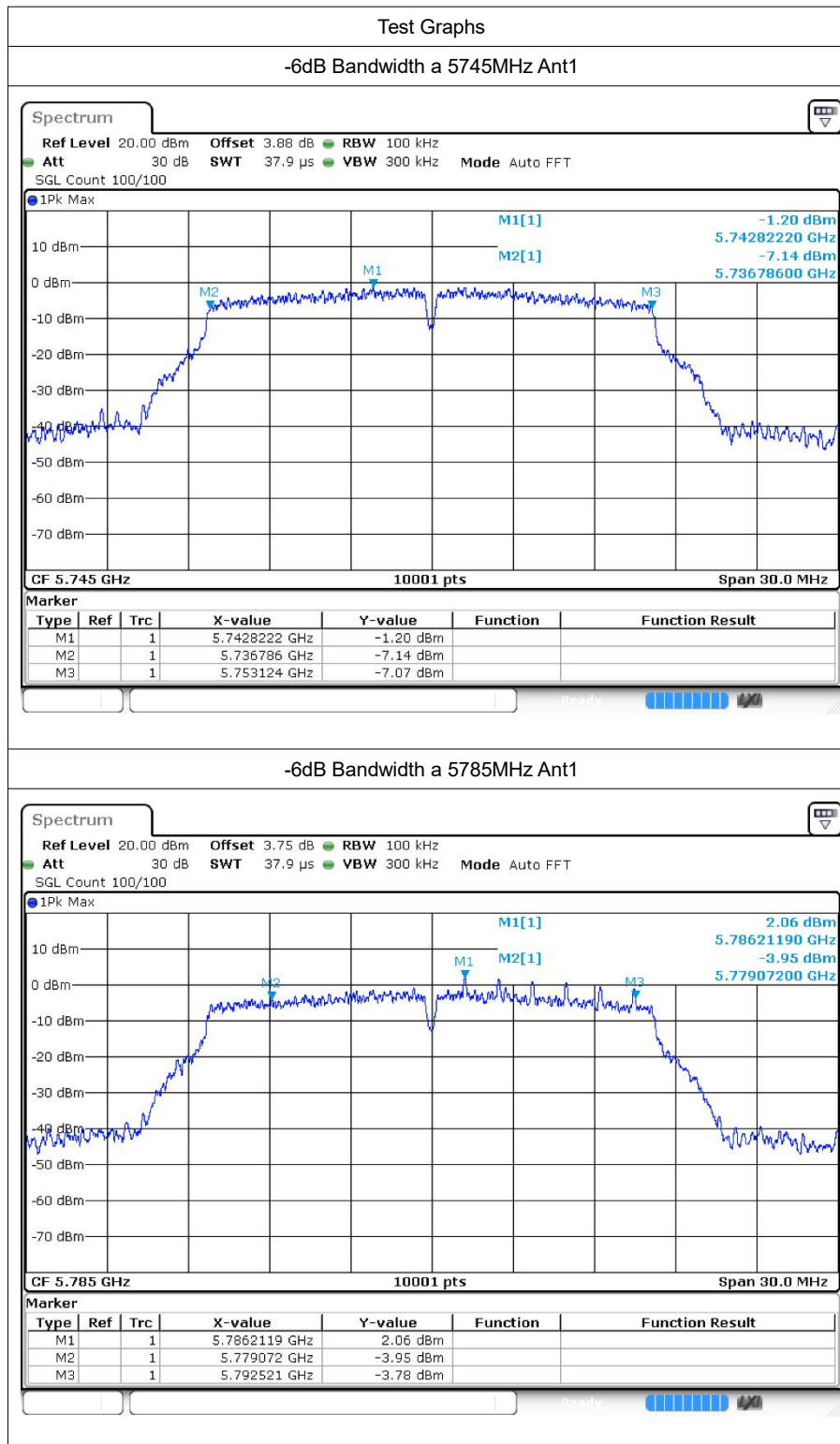


3 -6dB Bandwidth

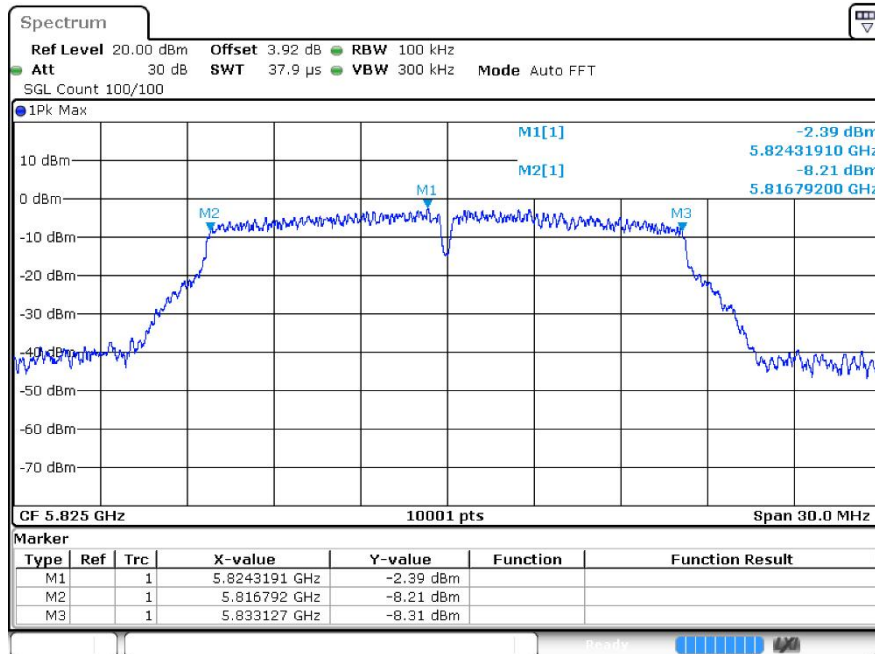
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	16.338	0.5	Pass
a	5785	Ant1	13.449	0.5	Pass
a	5825	Ant1	16.335	0.5	Pass
n20	5745	Ant1	17.577	0.5	Pass
n20	5785	Ant1	16.797	0.5	Pass
n20	5825	Ant1	16.788	0.5	Pass
n40	5755	Ant1	35.058	0.5	Pass
n40	5795	Ant1	35.094	0.5	Pass
ac20	5745	Ant1	15.072	0.5	Pass
ac20	5785	Ant1	14.709	0.5	Pass
ac20	5825	Ant1	17.571	0.5	Pass
ac40	5755	Ant1	35.118	0.5	Pass
ac40	5795	Ant1	31.344	0.5	Pass
ac80	5775	Ant1	75.108	0.5	Pass
a	5745	Ant2	15.102	0.5	Pass
a	5785	Ant2	14.061	0.5	Pass
a	5825	Ant2	14.451	0.5	Pass
n20	5745	Ant2	15.288	0.5	Pass
n20	5785	Ant2	17.553	0.5	Pass
n20	5825	Ant2	16.308	0.5	Pass
n40	5755	Ant2	30.63	0.5	Pass
n40	5795	Ant2	35.088	0.5	Pass
ac20	5745	Ant2	15.309	0.5	Pass
ac20	5785	Ant2	17.523	0.5	Pass
ac20	5825	Ant2	15.279	0.5	Pass
ac40	5755	Ant2	35.538	0.5	Pass
ac40	5795	Ant2	35.052	0.5	Pass
ac80	5775	Ant2	75.084	0.5	Pass

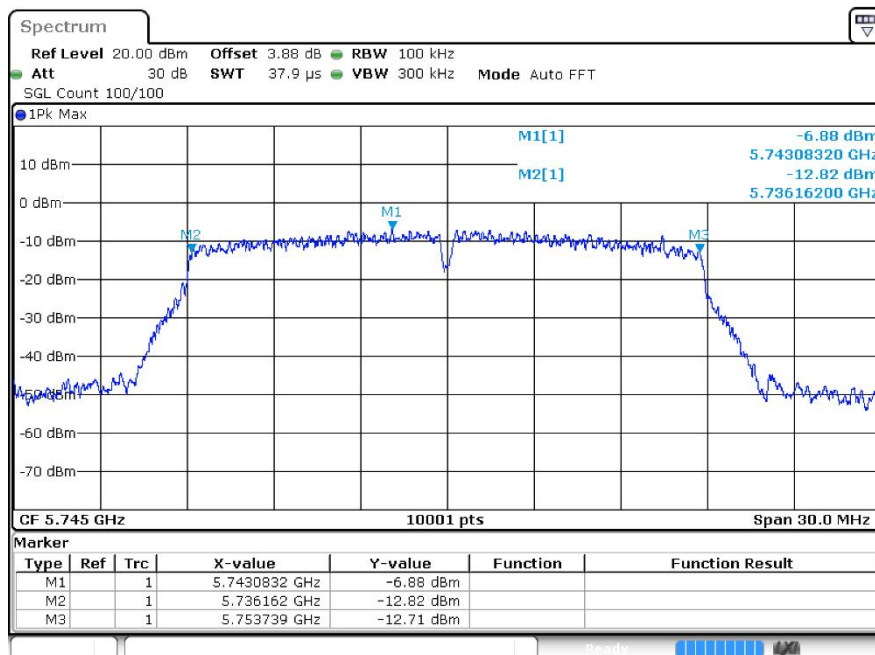
3.2 Test Graphs



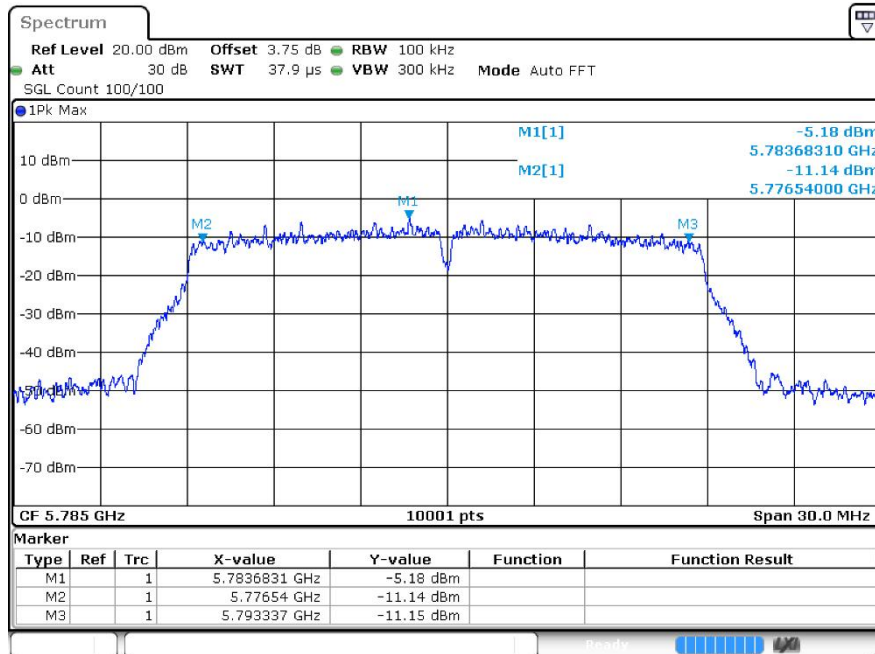
-6dB Bandwidth a 5825MHz Ant1



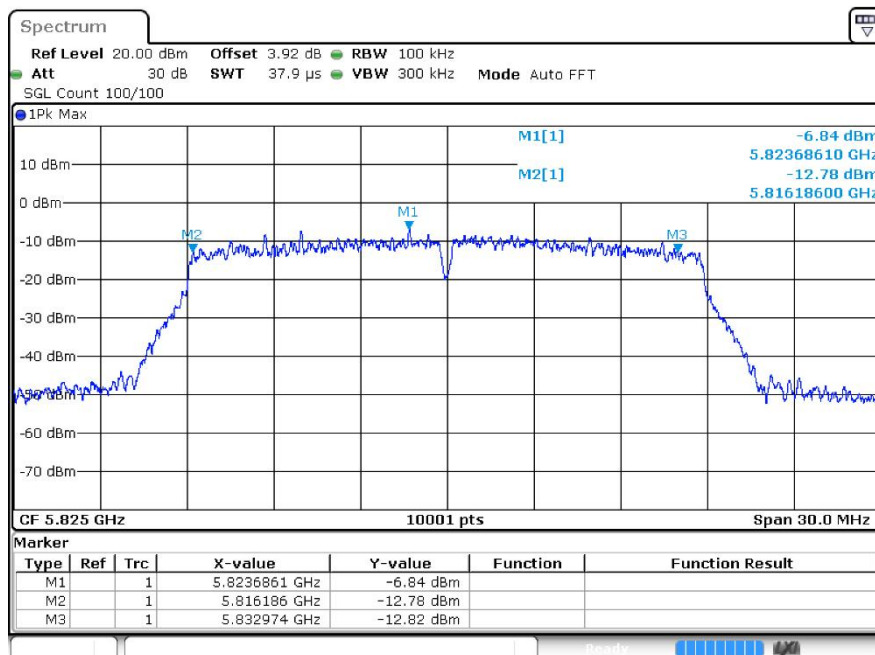
-6dB Bandwidth n20 5745MHz Ant1



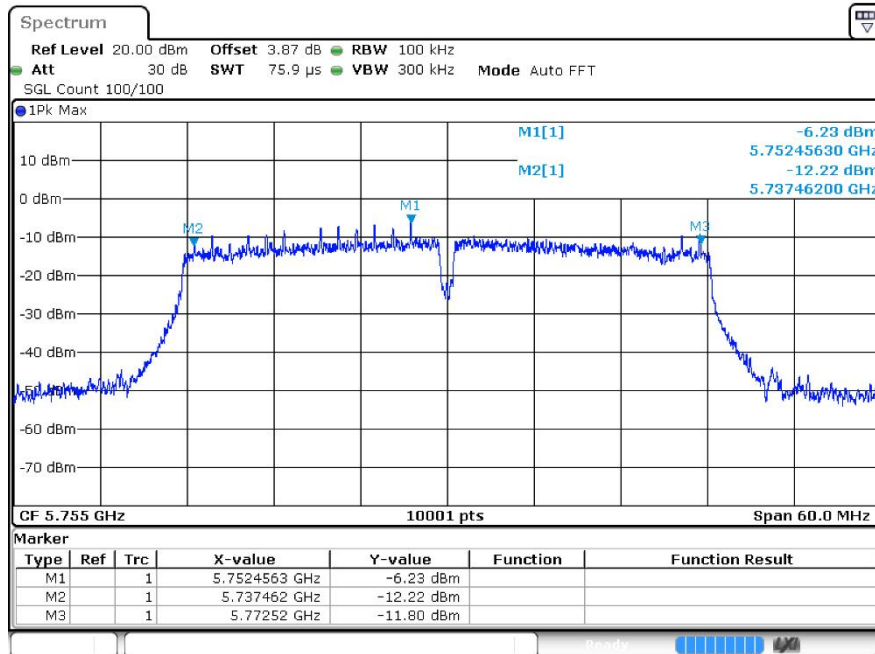
-6dB Bandwidth n20 5785MHz Ant1



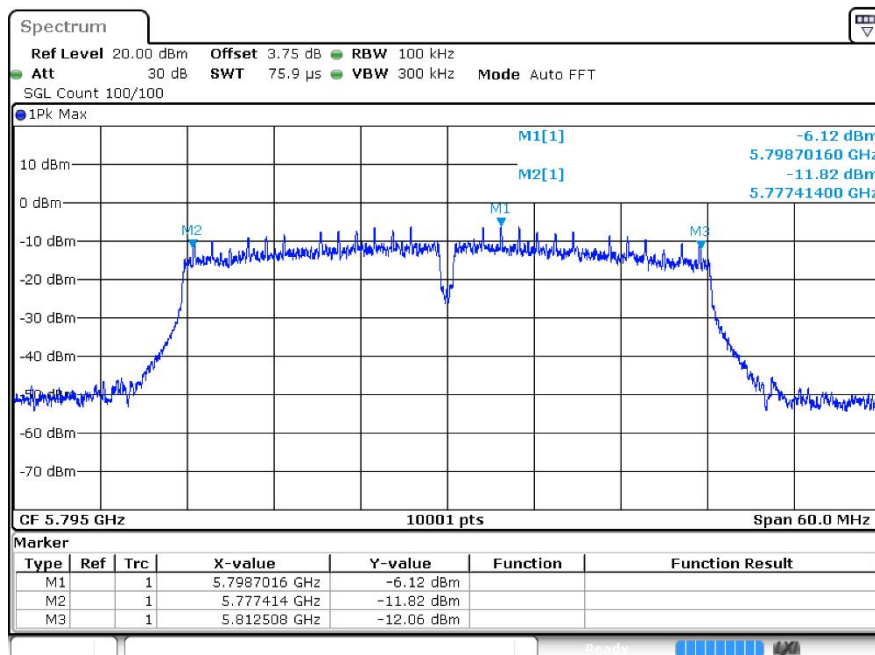
-6dB Bandwidth n20 5825MHz Ant1



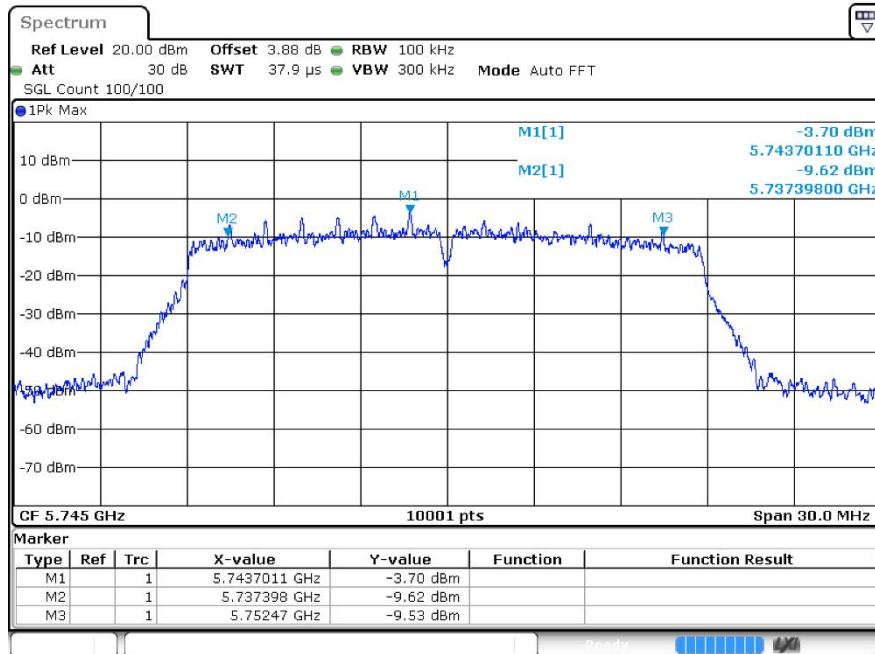
-6dB Bandwidth n40 5755MHz Ant1



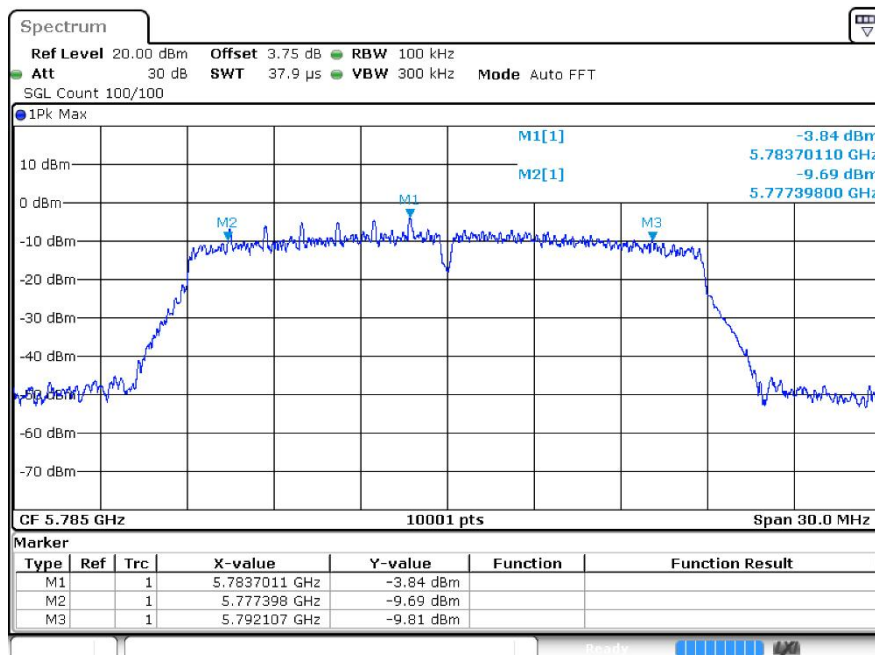
-6dB Bandwidth n40 5795MHz Ant1



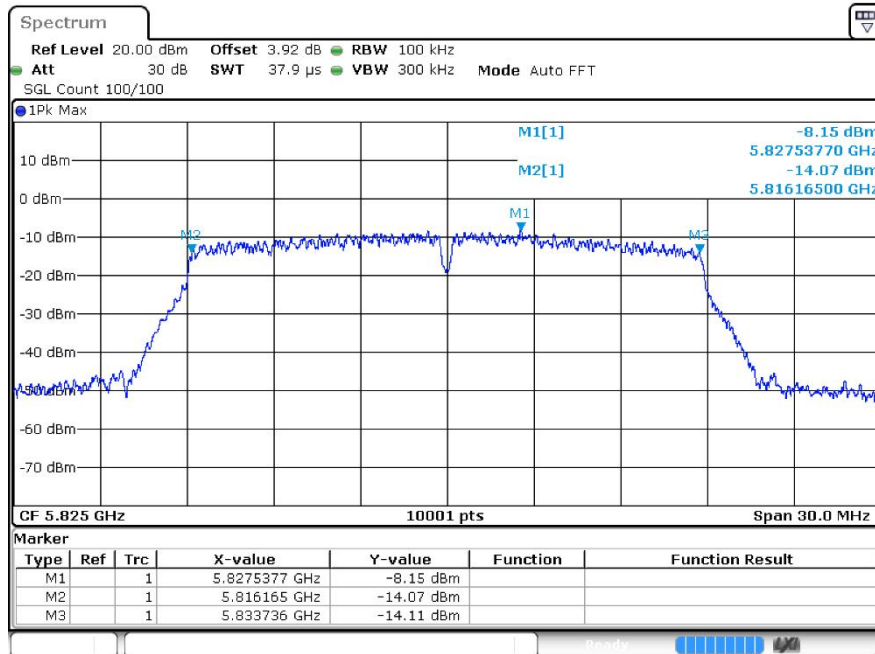
-6dB Bandwidth ac20 5745MHz Ant1



-6dB Bandwidth ac20 5785MHz Ant1



-6dB Bandwidth ac20 5825MHz Ant1



-6dB Bandwidth ac40 5755MHz Ant1

