



Appendix E

RF Test Data for 5.8GWIFI(Conducted Measurement)

Product Name: LCD projector

Trade Mark:  EXTRAVIS

Test Model: Y5

Environmental Conditions

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



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1 Duty Cycle

1.1 Test Result

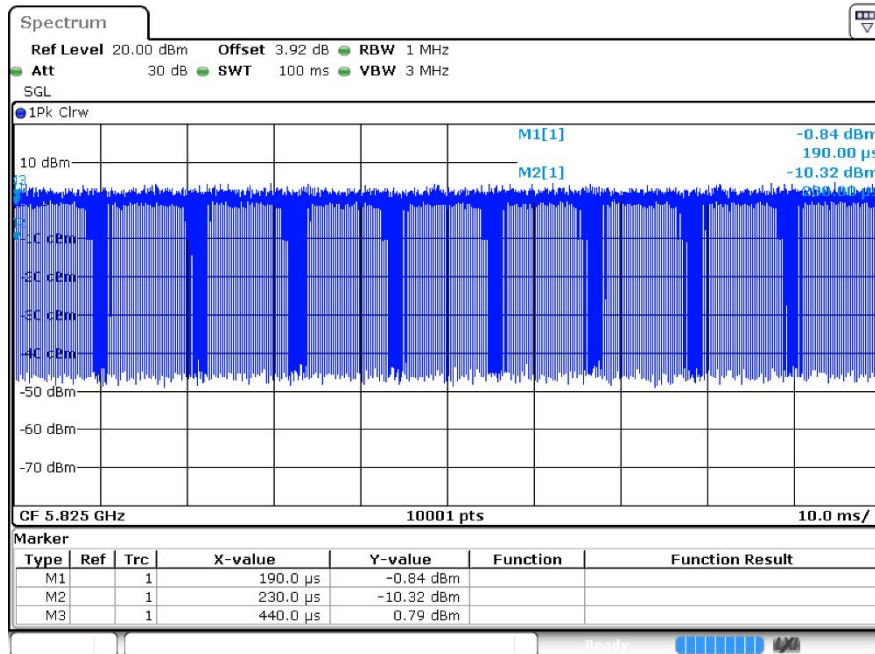
Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
a	5745	Ant1	86.96	0.61	4.55
a	5785	Ant1	87.06	0.6	4.76
a	5825	Ant1	87.03	0.6	4.76
a	5745	Ant2	86.94	0.61	4.76
a	5785	Ant2	87.04	0.6	4.76
a	5825	Ant2	86.99	0.61	4.76
n20	5745	Ant1	92.97	0.32	2.22
n20	5785	Ant1	92.95	0.32	2.22
n20	5825	Ant1	92.91	0.32	2.27
n20	5745	Ant2	92.97	0.32	2.22
n20	5785	Ant2	93.05	0.31	2.22
n20	5825	Ant2	92.93	0.32	2.22
n40	5755	Ant1	92.95	0.32	2.22
n40	5795	Ant1	92.91	0.32	2.22
n40	5755	Ant2	91.7	0.38	2.33
n40	5795	Ant2	91.38	0.39	2.27
ac20	5745	Ant1	87.17	0.6	4.55
ac20	5785	Ant1	87.22	0.59	4.35
ac20	5825	Ant1	87.18	0.6	4.35
ac20	5745	Ant2	87.19	0.6	4.35
ac20	5785	Ant2	87.19	0.6	4.55
ac20	5825	Ant2	87.28	0.59	4.55
ac40	5755	Ant1	87.23	0.59	4.55
ac40	5795	Ant1	87.25	0.59	4.35
ac40	5755	Ant2	84.44	0.73	4.55
ac40	5795	Ant2	84.12	0.75	4.55
ax20	5745	Ant1	87.02	0.6	4.35
ax20	5785	Ant1	86.98	0.61	4.35
ax20	5825	Ant1	87.08	0.6	4.55
ax20	5745	Ant2	87.15	0.6	4.35
ax20	5785	Ant2	87.12	0.6	4.35
ax20	5825	Ant2	86.83	0.61	4.55
ax40	5755	Ant1	87.55	0.58	4.17
ax40	5795	Ant1	87.59	0.58	4.17
ax40	5755	Ant2	84.92	0.71	4.35
ax40	5795	Ant2	84.89	0.71	4.35



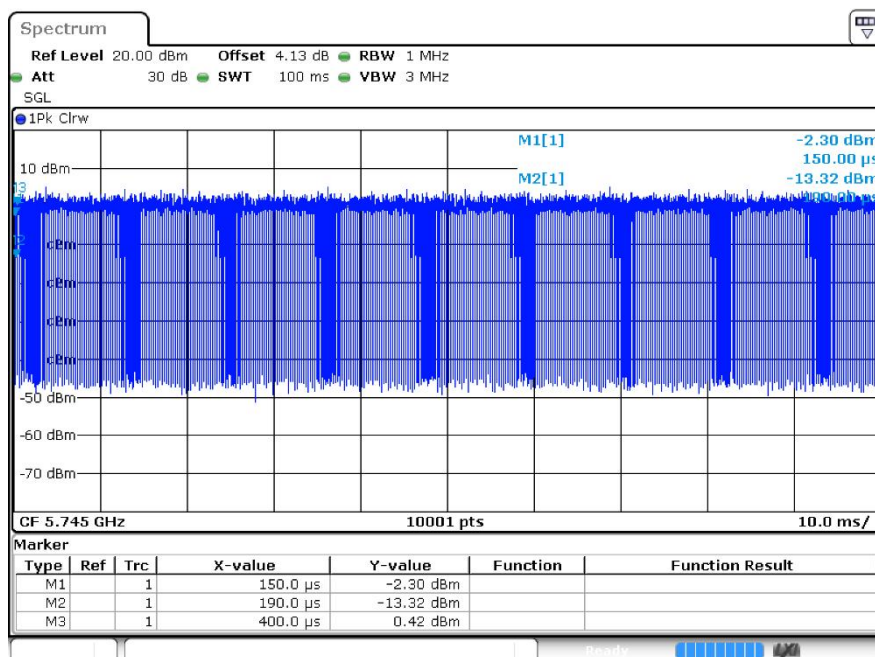
1.2 Test Graphs



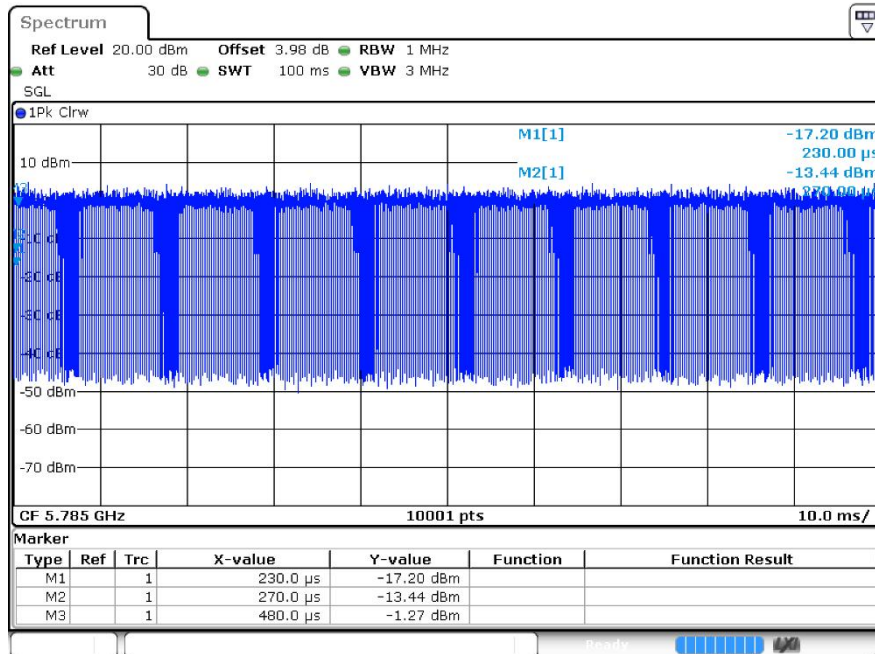
Duty Cycle a 5825MHz Ant1



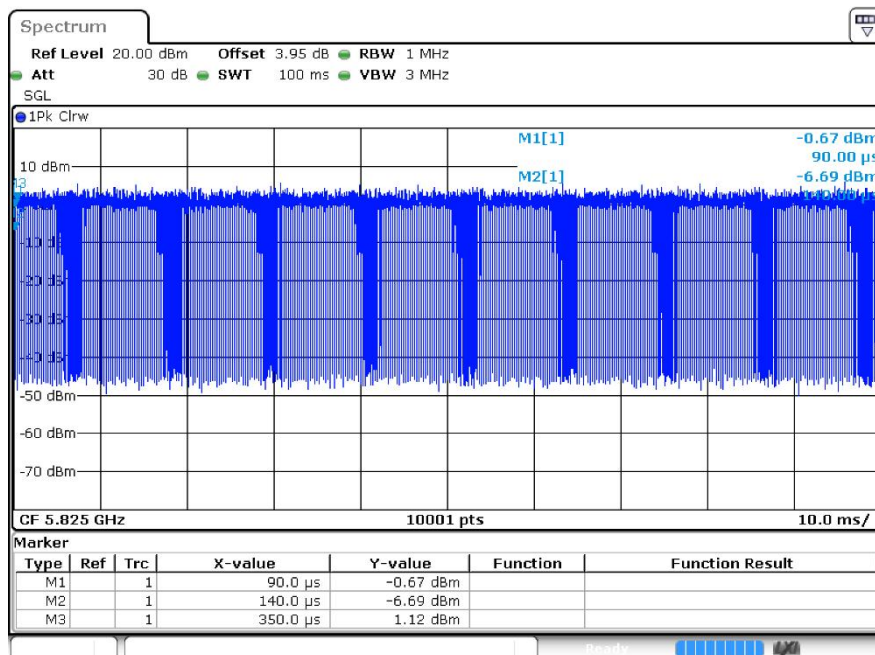
Duty Cycle a 5745MHz Ant2



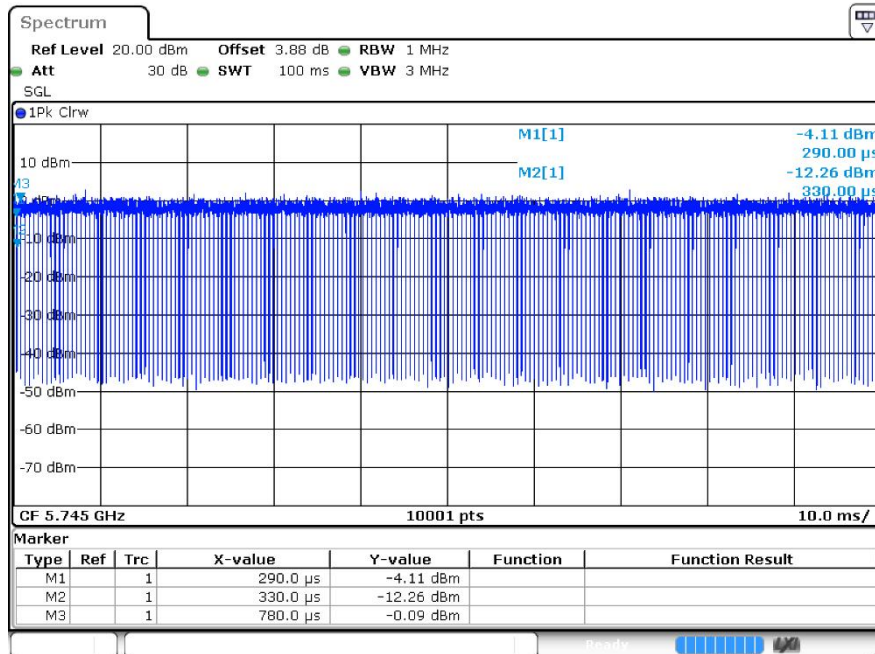
Duty Cycle a 5785MHz Ant2



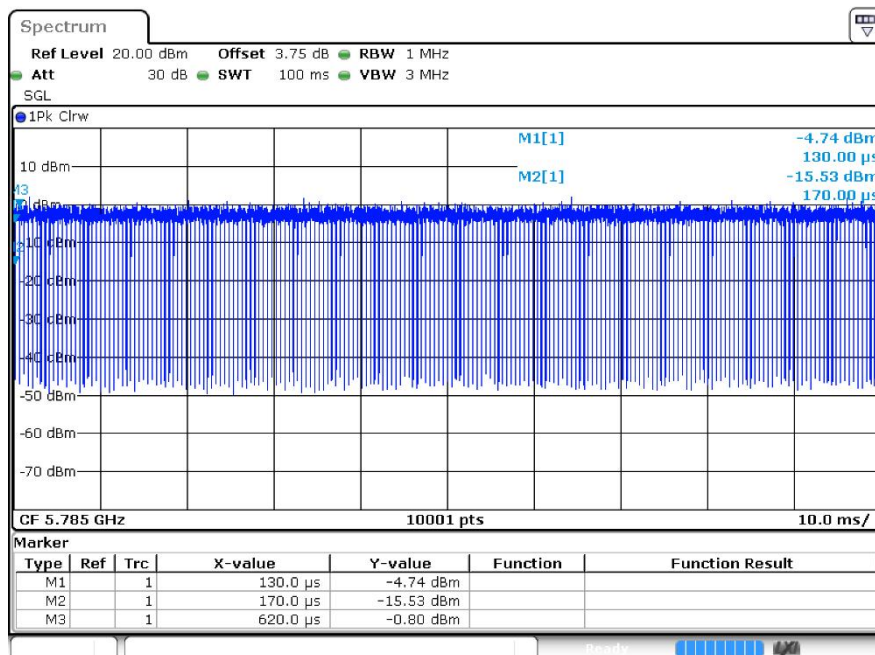
Duty Cycle a 5825MHz Ant2



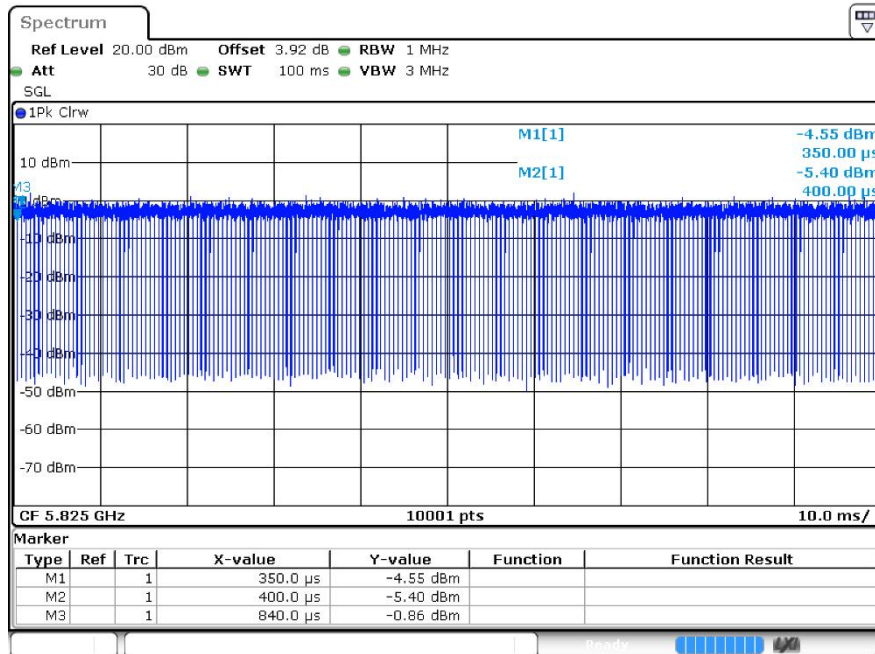
Duty Cycle n20 5745MHz Ant1



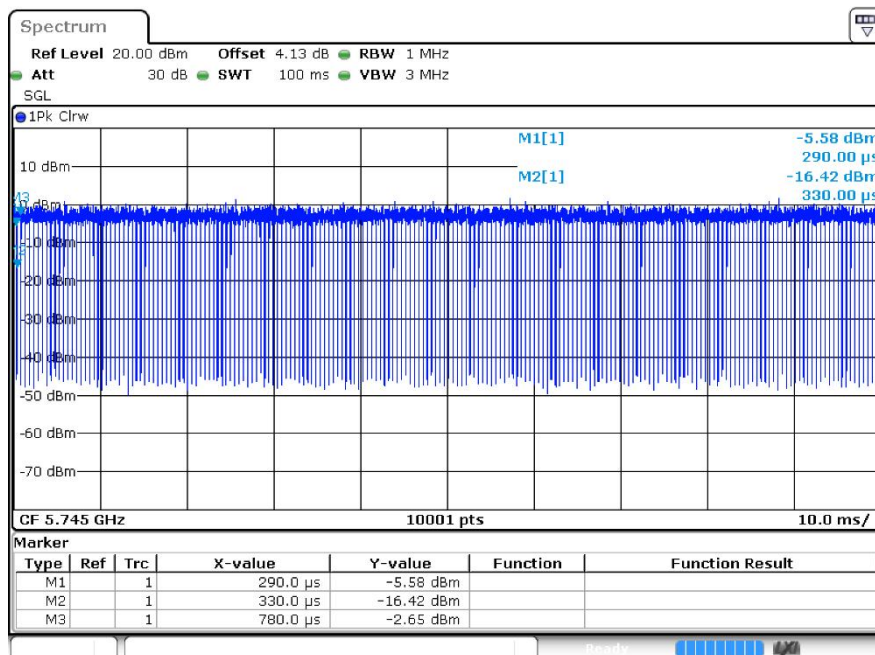
Duty Cycle n20 5785MHz Ant1



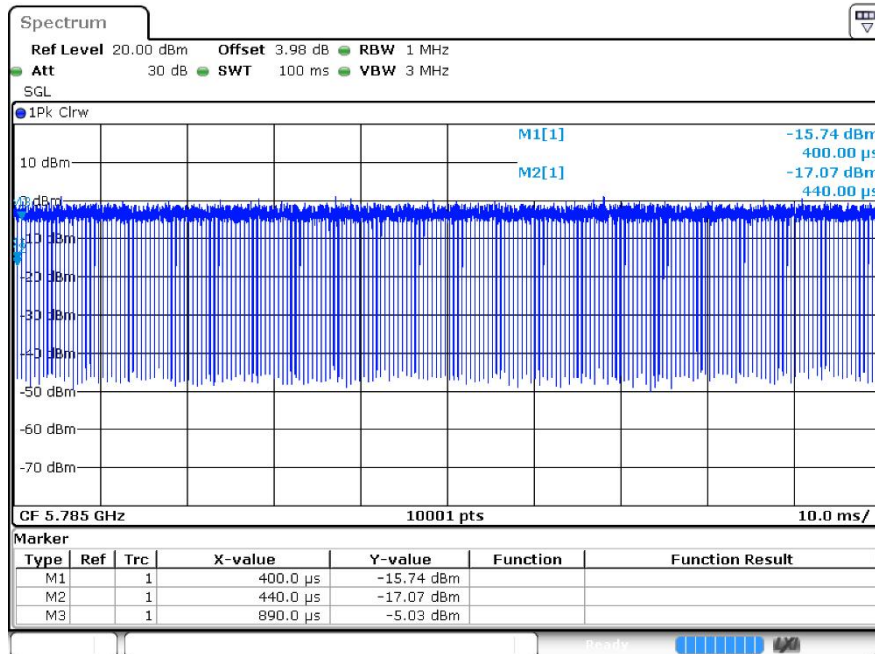
Duty Cycle n20 5825MHz Ant1



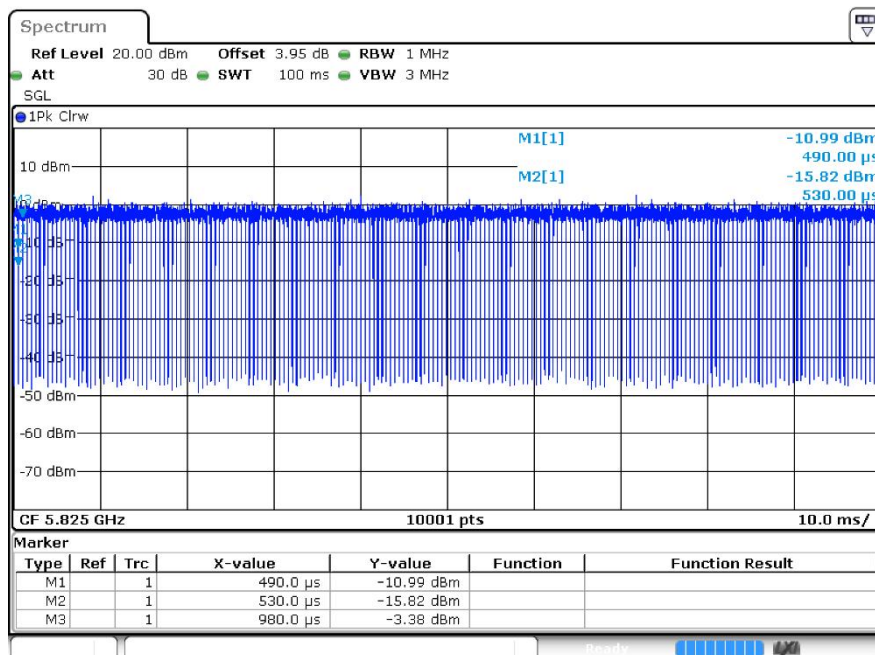
Duty Cycle n20 5745MHz Ant2



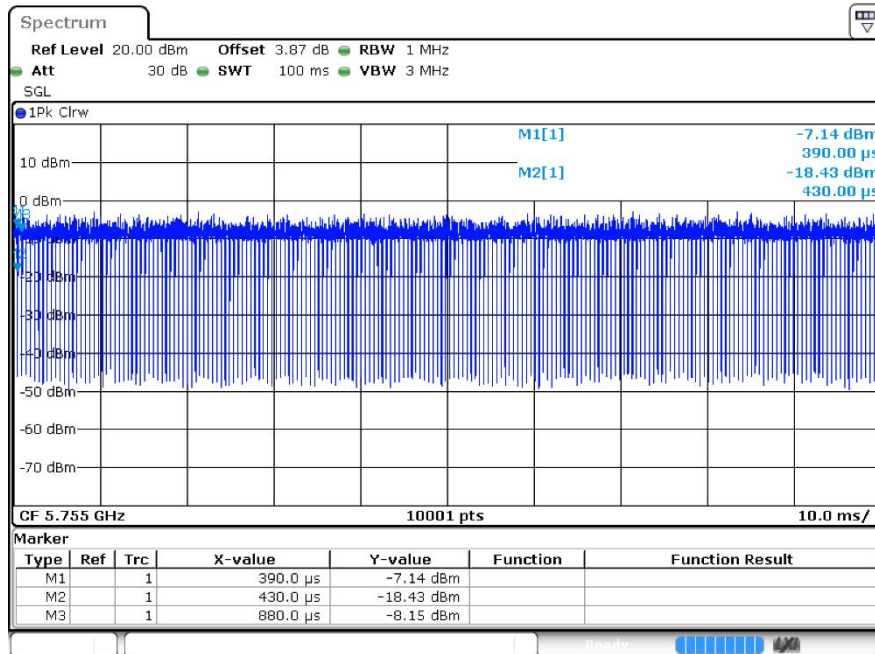
Duty Cycle n20 5785MHz Ant2



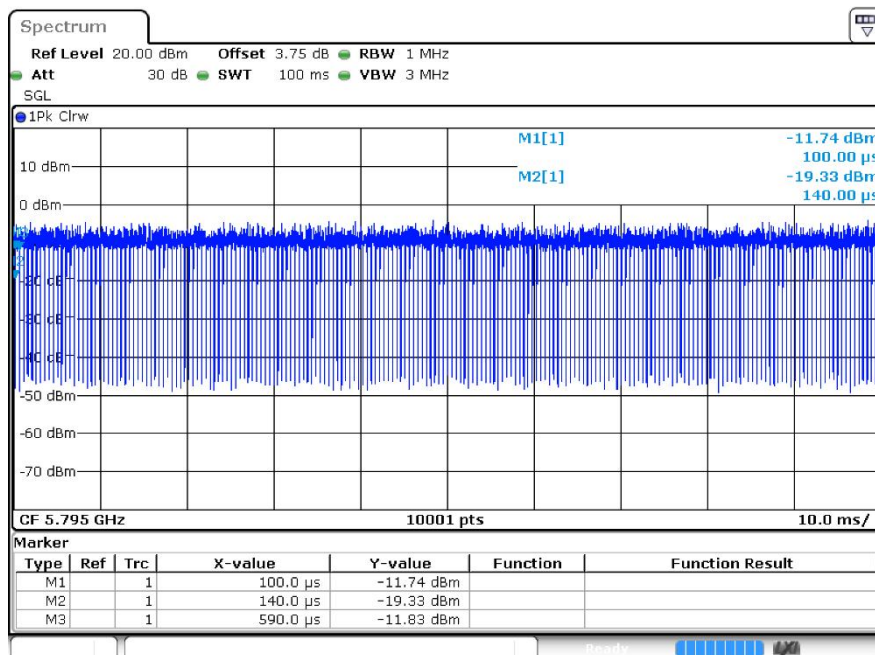
Duty Cycle n20 5825MHz Ant2



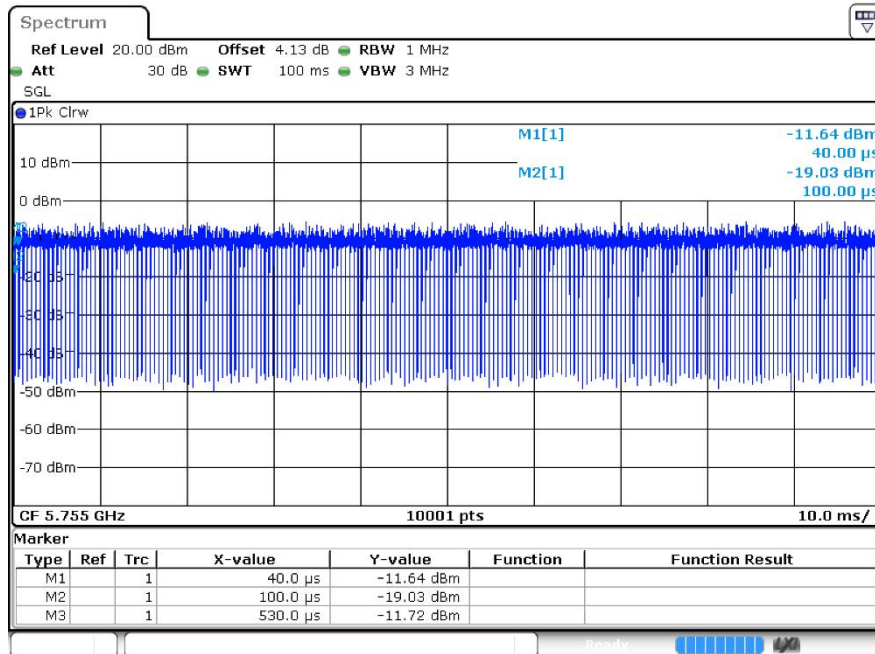
Duty Cycle n40 5755MHz Ant1



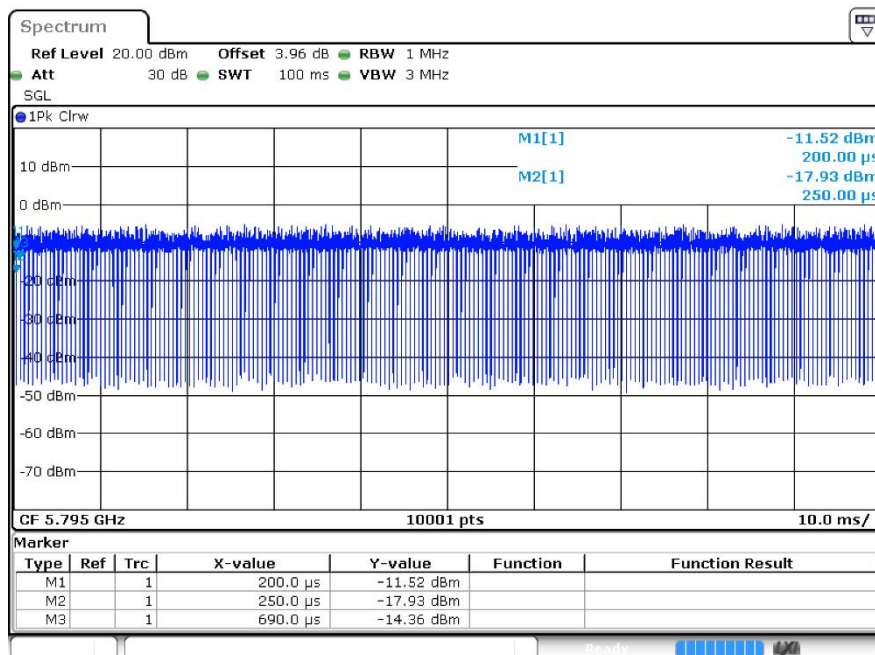
Duty Cycle n40 5795MHz Ant1



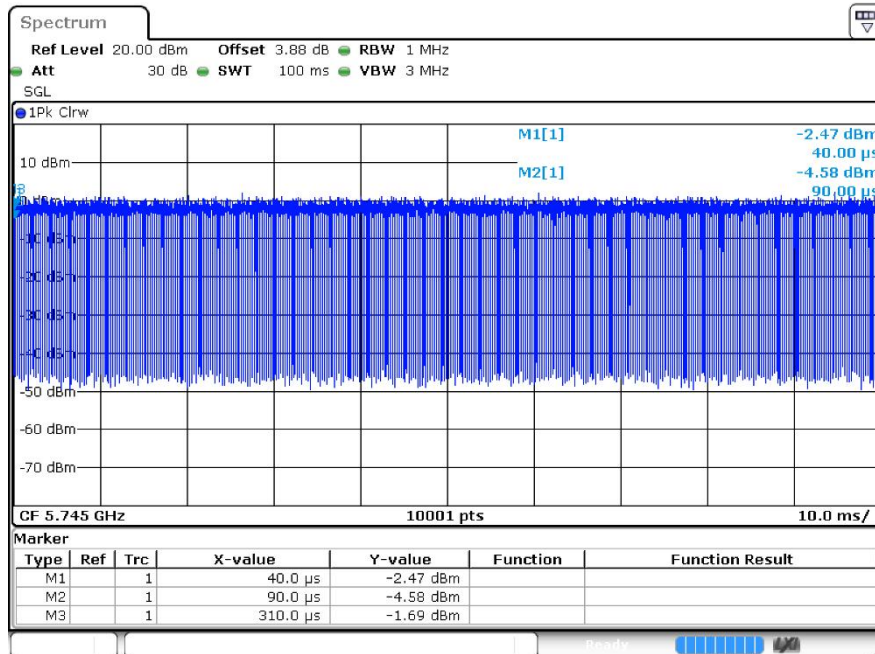
Duty Cycle n40 5755MHz Ant2



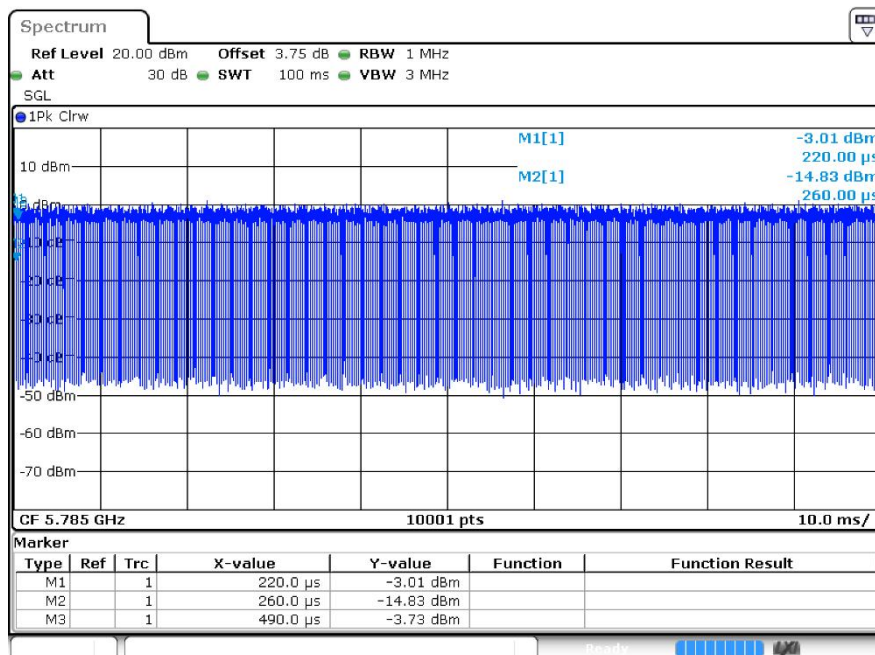
Duty Cycle n40 5795MHz Ant2



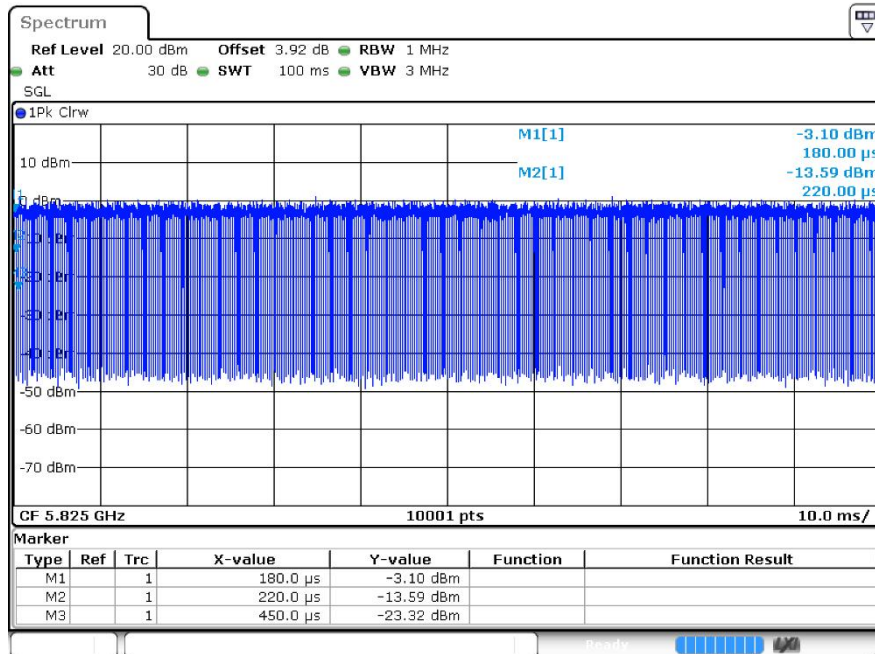
Duty Cycle ac20 5745MHz Ant1



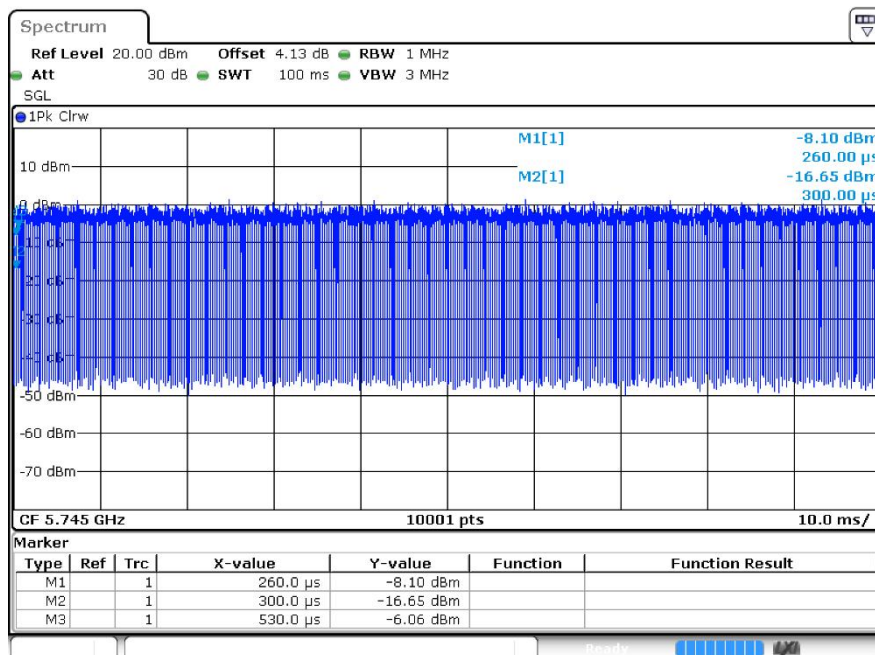
Duty Cycle ac20 5785MHz Ant1



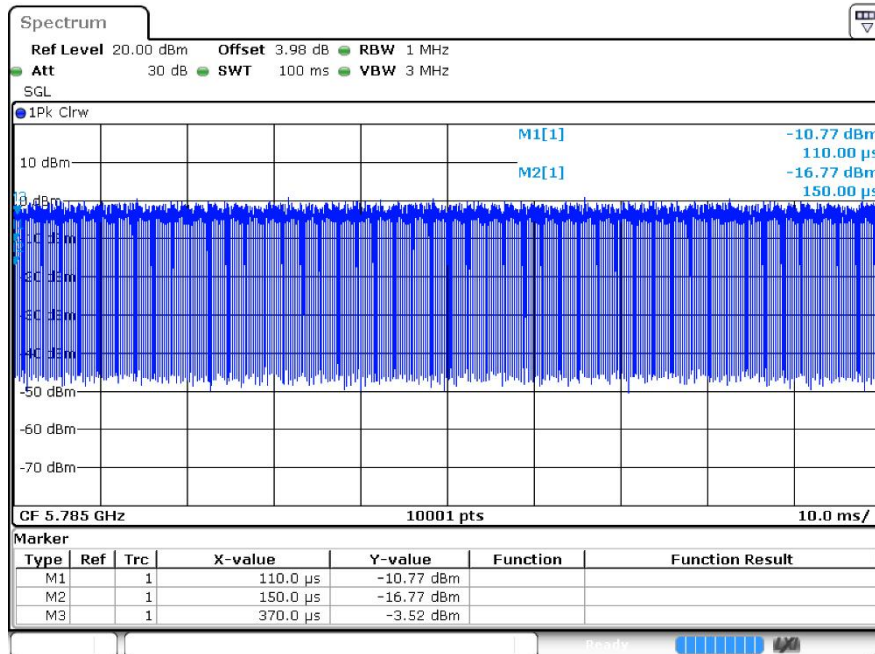
Duty Cycle ac20 5825MHz Ant1



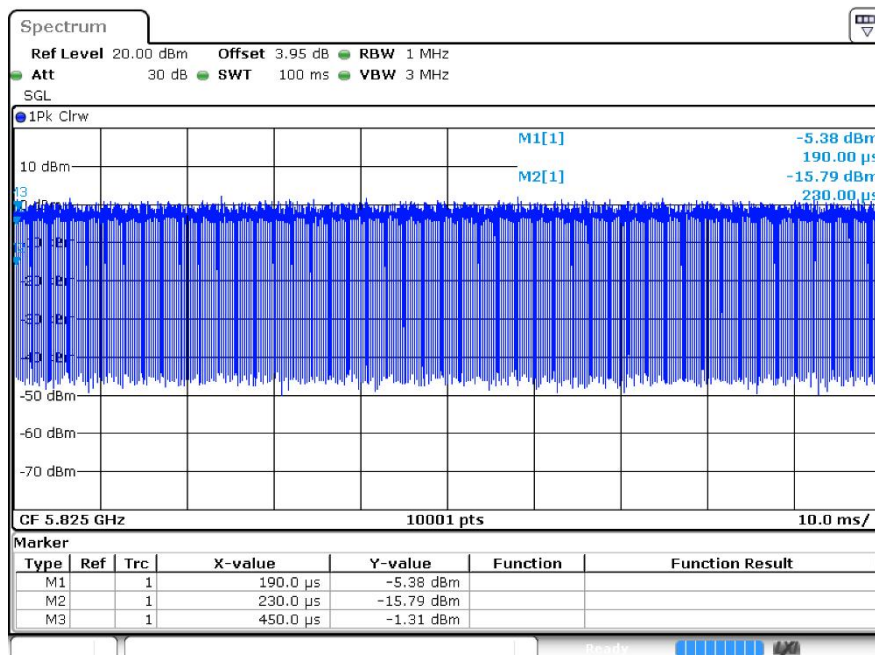
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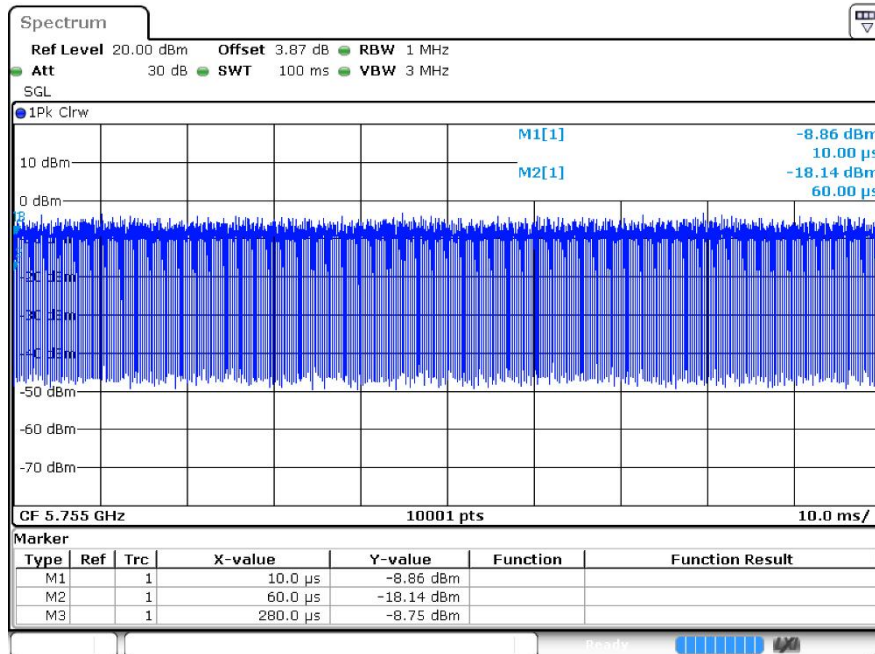
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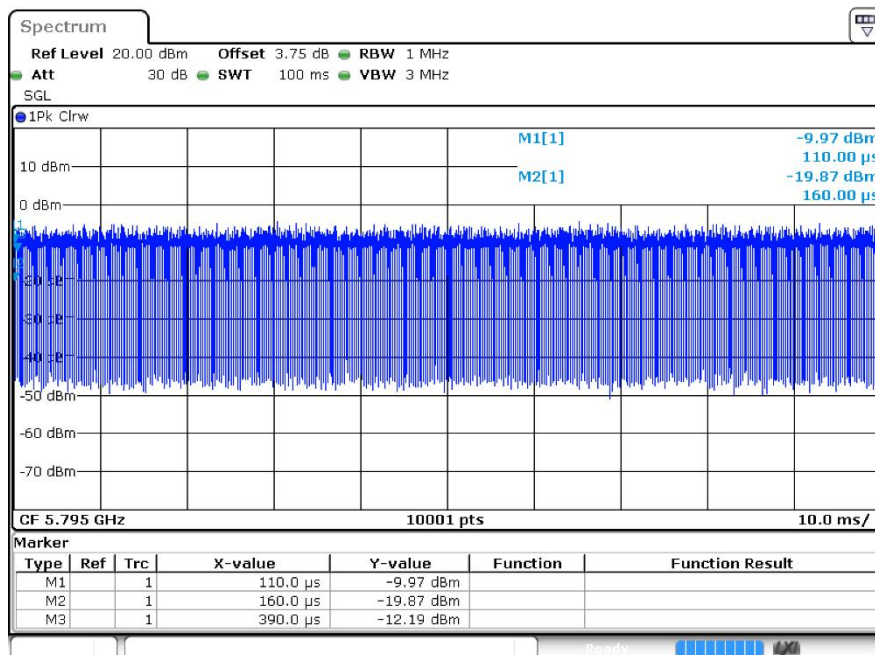
Duty Cycle ac20 5825MHz Ant2



Duty Cycle ac40 5755MHz Ant1



Duty Cycle ac40 5795MHz Ant1



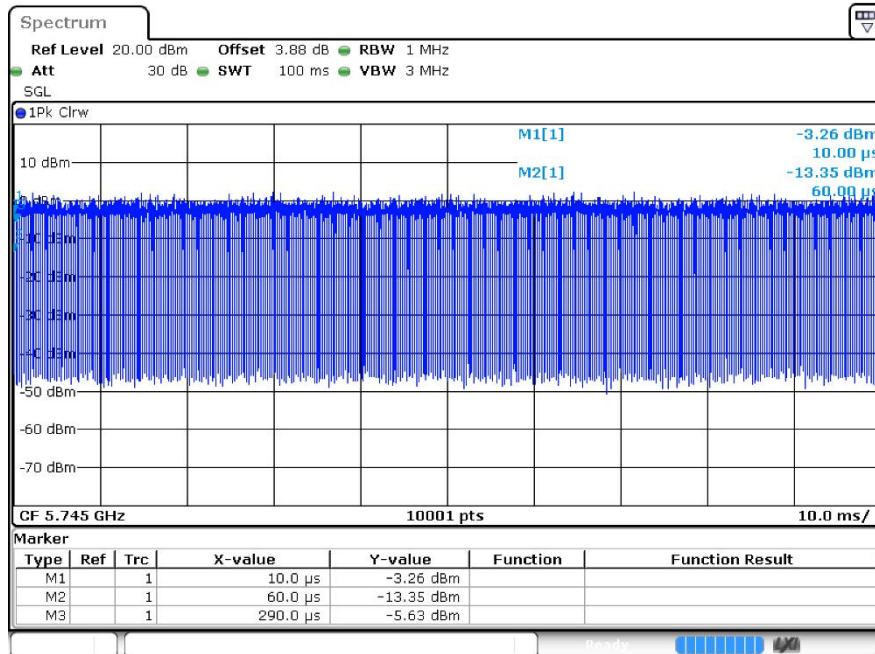
Duty Cycle ac40 5755MHz Ant2



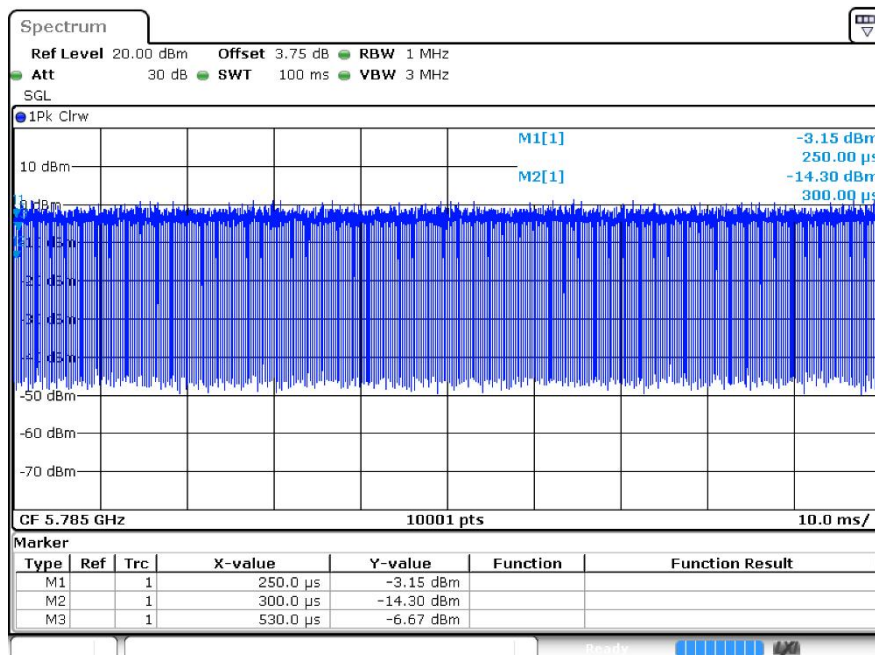
Duty Cycle ac40 5795MHz Ant2



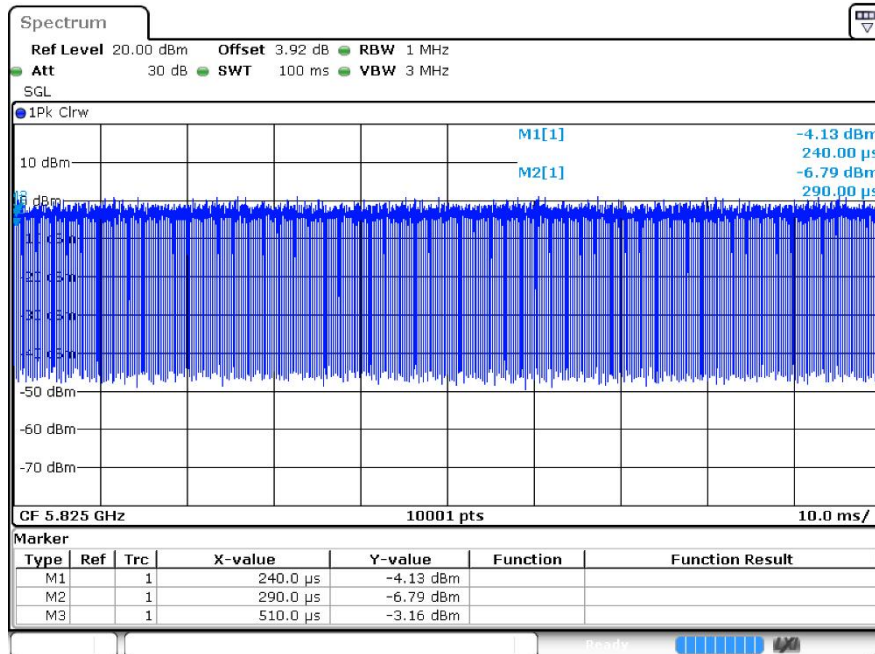
Duty Cycle ax20 5745MHz Ant1



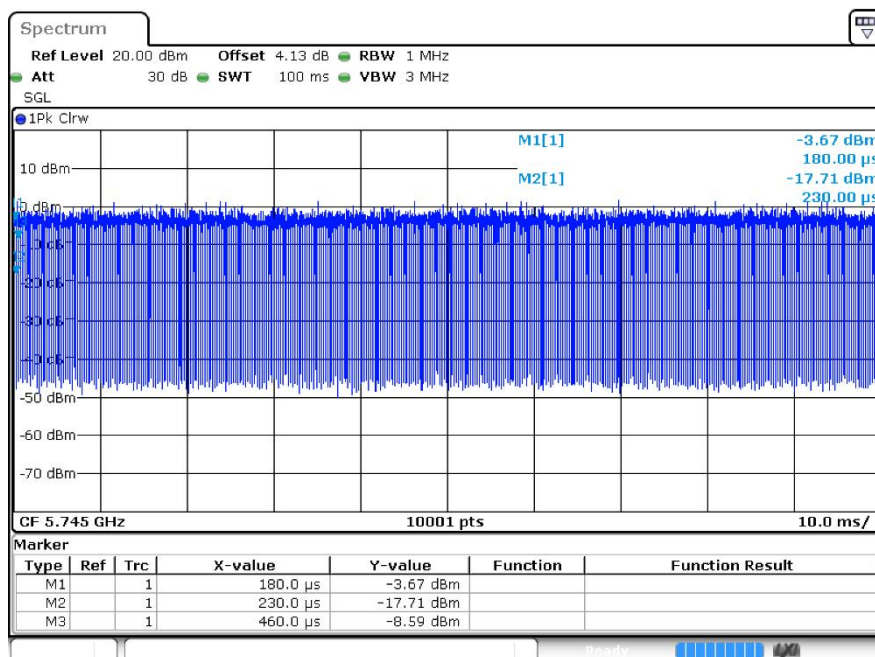
Duty Cycle ax20 5785MHz Ant1



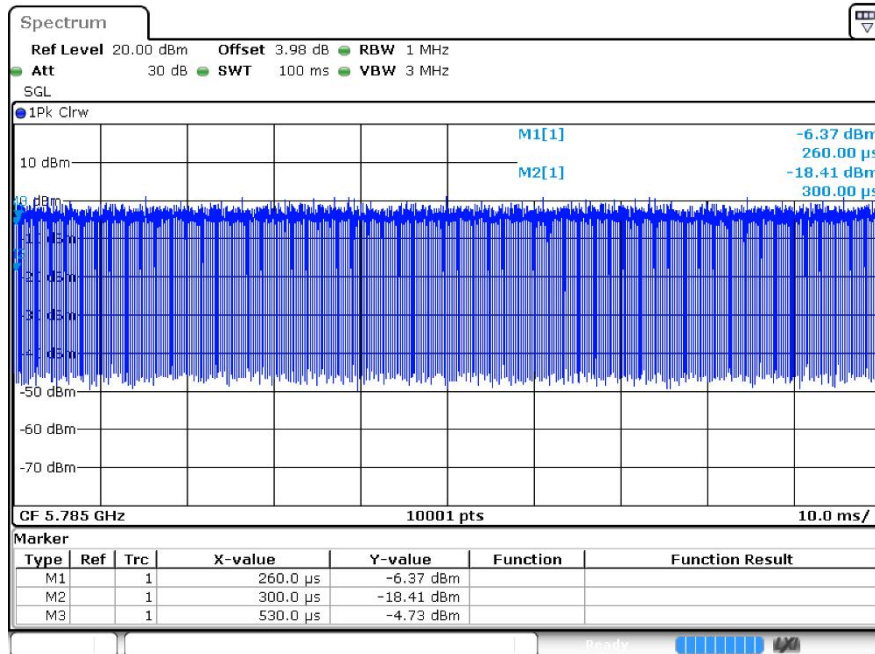
Duty Cycle ax20 5825MHz Ant1



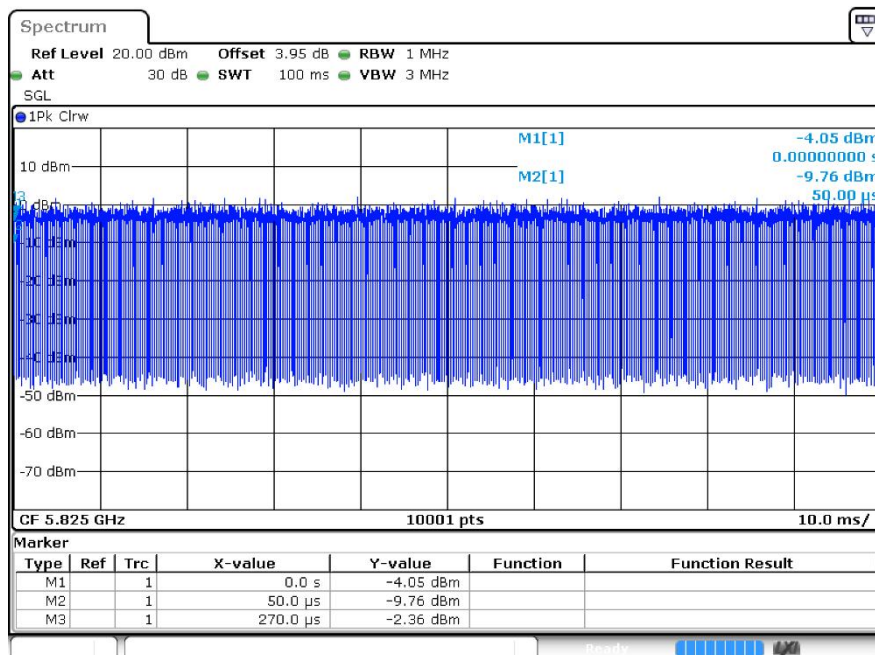
Duty Cycle ax20 5745MHz Ant2



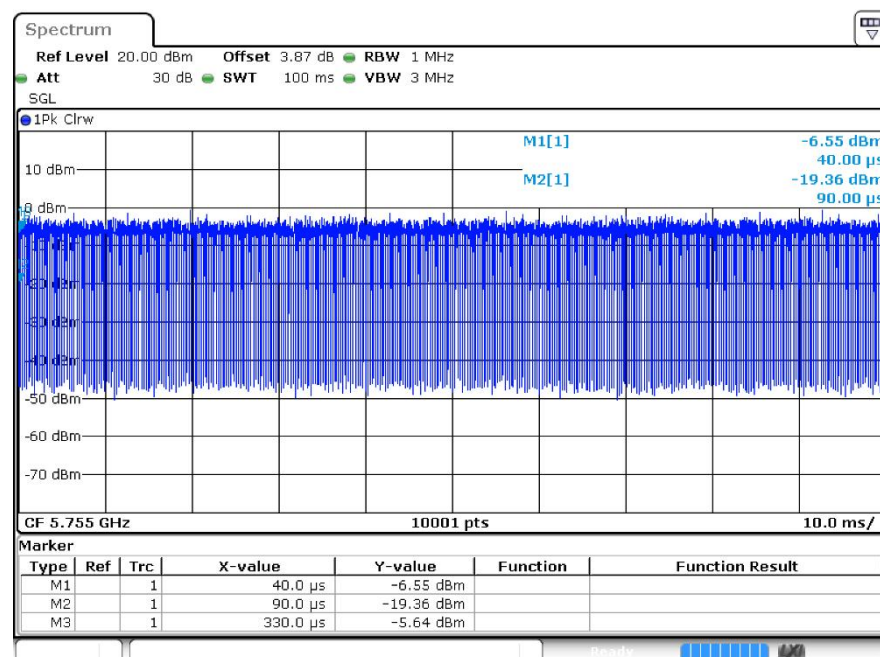
Duty Cycle ax20 5785MHz Ant2



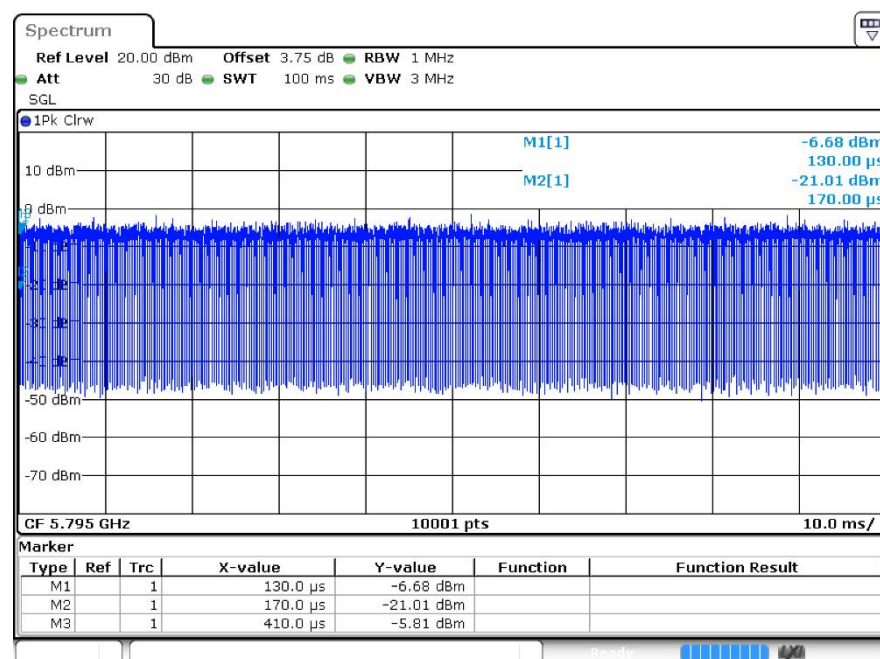
Duty Cycle ax20 5825MHz Ant2



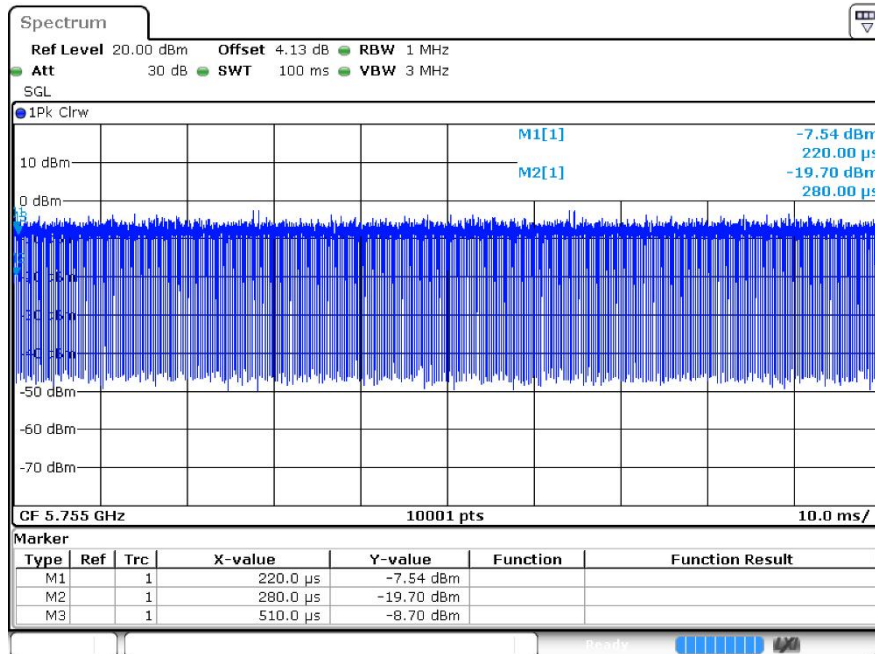
Duty Cycle ax40 5755MHz Ant1



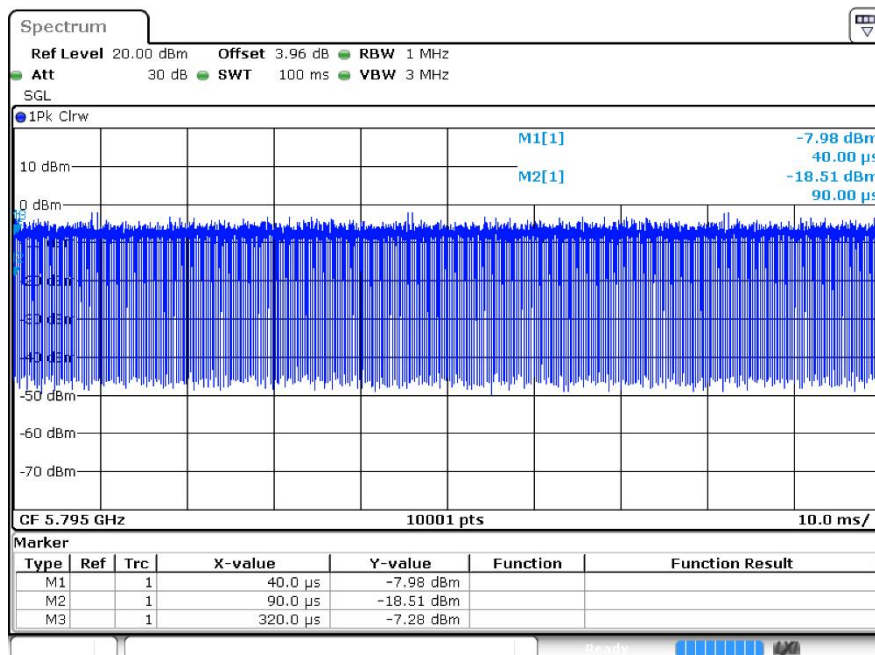
Duty Cycle ax40 5795MHz Ant1



Duty Cycle ax40 5755MHz Ant2



Duty Cycle ax40 5795MHz Ant2



2 Maximum Conducted Output Power

2.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
a	5745	Ant1	11.86	30	Pass
a	5785	Ant1	11.04	30	Pass
a	5825	Ant1	10.98	30	Pass
a	5745	Ant2	11.11	30	Pass
a	5785	Ant2	10.6	30	Pass
a	5825	Ant2	11.8	30	Pass
n20	5745	Ant1	8.71	30	Pass
n20	5745	Ant2	7.67	30	Pass
n20	5745	Sum	11.25	30	Pass
n20	5785	Ant1	7.86	30	Pass
n20	5785	Ant2	7.04	30	Pass
n20	5785	Sum	10.51	30	Pass
n20	5825	Ant1	7.87	30	Pass
n20	5825	Ant2	8.22	30	Pass
n20	5825	Sum	11.09	30	Pass
n40	5755	Ant1	8.78	30	Pass
n40	5755	Ant2	7.04	30	Pass
n40	5755	Sum	10.96	30	Pass
n40	5795	Ant1	7.72	30	Pass
n40	5795	Ant2	7.31	30	Pass
n40	5795	Sum	10.56	30	Pass
ac20	5745	Ant1	8.76	30	Pass
ac20	5745	Ant2	8.06	30	Pass
ac20	5745	Sum	11.43	30	Pass
ac20	5785	Ant1	7.96	30	Pass
ac20	5785	Ant2	7.38	30	Pass
ac20	5785	Sum	10.63	30	Pass
ac20	5825	Ant1	7.92	30	Pass
ac20	5825	Ant2	8.71	30	Pass
ac20	5825	Sum	11.19	30	Pass
ac40	5755	Ant1	8.85	30	Pass
ac40	5755	Ant2	7.48	30	Pass
ac40	5755	Sum	11.17	30	Pass
ac40	5795	Ant1	7.84	30	Pass
ac40	5795	Ant2	7.57	30	Pass
ac40	5795	Sum	10.66	30	Pass



ax20	5745	Ant1	8.76	30	Pass
ax20	5745	Ant2	7.42	30	Pass
ax20	5745	Sum	11.48	30	Pass
ax20	5785	Ant1	7.82	30	Pass
ax20	5785	Ant2	6.94	30	Pass
ax20	5785	Sum	10.81	30	Pass
ax20	5825	Ant1	7.7	30	Pass
ax20	5825	Ant2	8.03	30	Pass
ax20	5825	Sum	11.28	30	Pass
ax40	5755	Ant1	9.29	30	Pass
ax40	5755	Ant2	7.47	30	Pass
ax40	5755	Sum	11.52	30	Pass
ax40	5795	Ant1	8.38	30	Pass
ax40	5795	Ant2	7.53	30	Pass
ax40	5795	Sum	10.97	30	Pass

Note:

The duty factor has been compensated into the result.

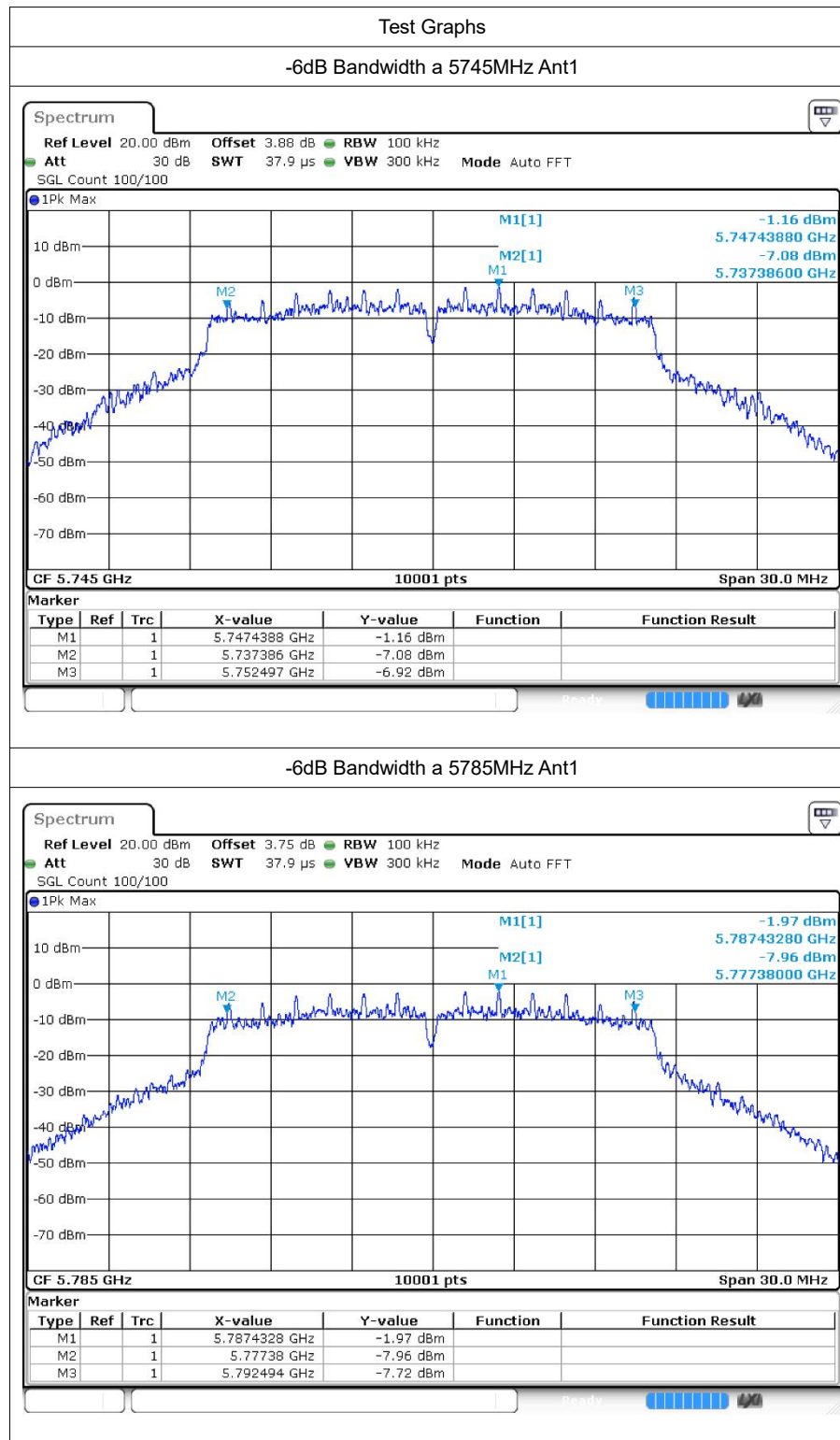


3 -6dB Bandwidth

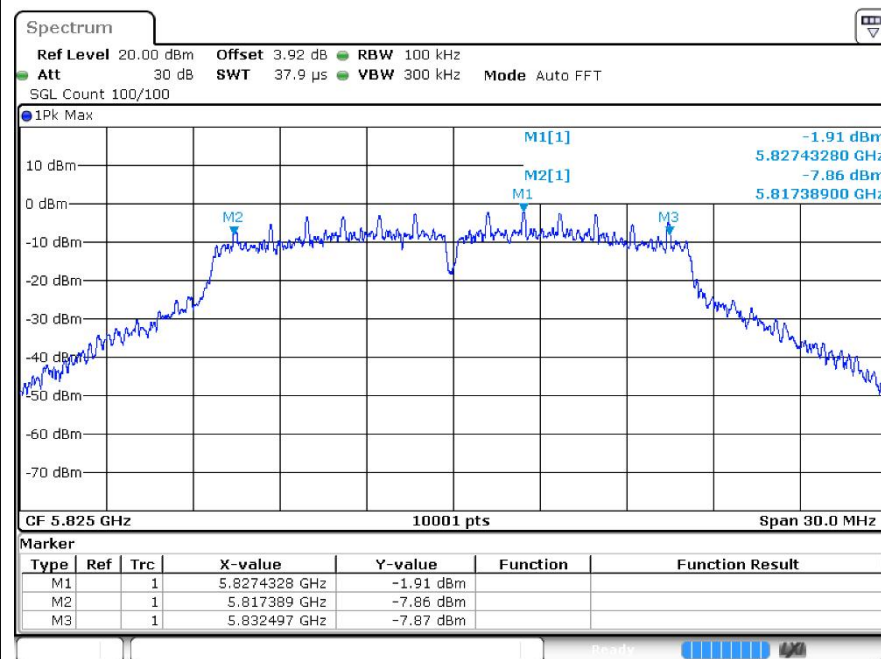
3.1 Test Result

Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
a	5745	Ant1	15.111	0.5	Pass
a	5785	Ant1	15.114	0.5	Pass
a	5825	Ant1	15.108	0.5	Pass
n20	5745	Ant1	15.111	0.5	Pass
n20	5785	Ant1	15.123	0.5	Pass
n20	5825	Ant1	15.078	0.5	Pass
n40	5755	Ant1	35.046	0.5	Pass
n40	5795	Ant1	35.07	0.5	Pass
ac20	5745	Ant1	15.693	0.5	Pass
ac20	5785	Ant1	15.114	0.5	Pass
ac20	5825	Ant1	15.093	0.5	Pass
ac40	5755	Ant1	35.034	0.5	Pass
ac40	5795	Ant1	35.082	0.5	Pass
ax20	5745	Ant1	15.12	0.5	Pass
ax20	5785	Ant1	15.114	0.5	Pass
ax20	5825	Ant1	15.486	0.5	Pass
ax40	5755	Ant1	35.058	0.5	Pass
ax40	5795	Ant1	35.082	0.5	Pass
a	5745	Ant2	15.117	0.5	Pass
a	5785	Ant2	15.105	0.5	Pass
a	5825	Ant2	15.114	0.5	Pass
n20	5745	Ant2	15.108	0.5	Pass
n20	5785	Ant2	15.081	0.5	Pass
n20	5825	Ant2	15.078	0.5	Pass
n40	5755	Ant2	35.082	0.5	Pass
n40	5795	Ant2	33.81	0.5	Pass
ac20	5745	Ant2	15.111	0.5	Pass
ac20	5785	Ant2	15.096	0.5	Pass
ac20	5825	Ant2	15.108	0.5	Pass
ac40	5755	Ant2	35.052	0.5	Pass
ac40	5795	Ant2	35.058	0.5	Pass
ax20	5745	Ant2	15.108	0.5	Pass
ax20	5785	Ant2	15.102	0.5	Pass
ax20	5825	Ant2	15.057	0.5	Pass
ax40	5755	Ant2	35.088	0.5	Pass
ax40	5795	Ant2	35.064	0.5	Pass

3.2 Test Graphs



-6dB Bandwidth a 5825MHz Ant1



-6dB Bandwidth n20 5745MHz Ant1

