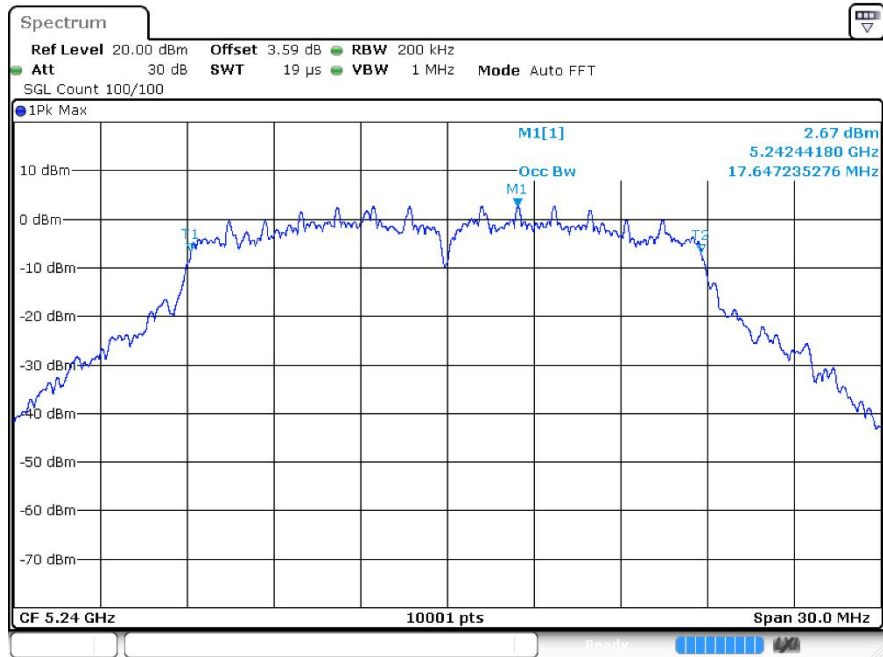
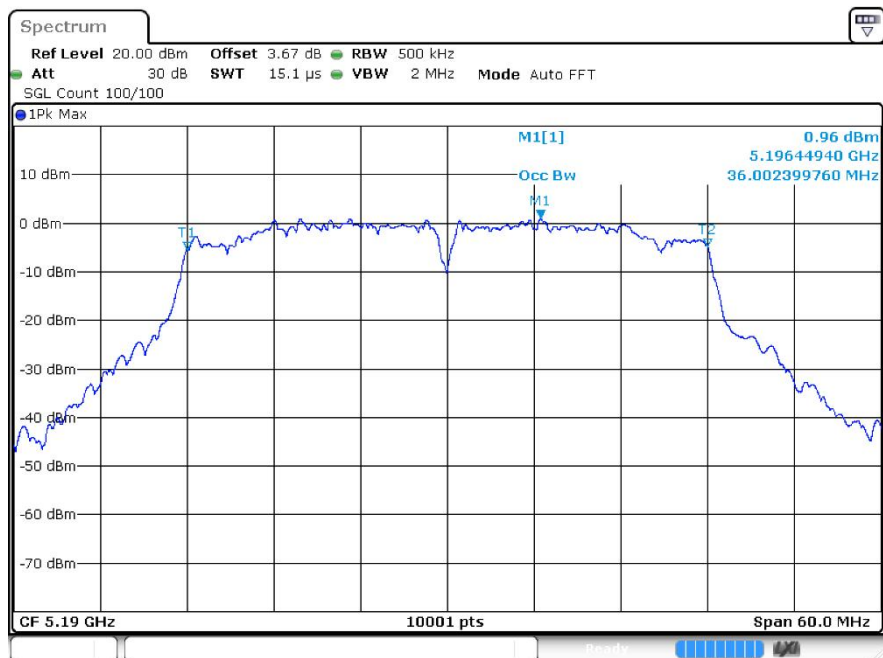
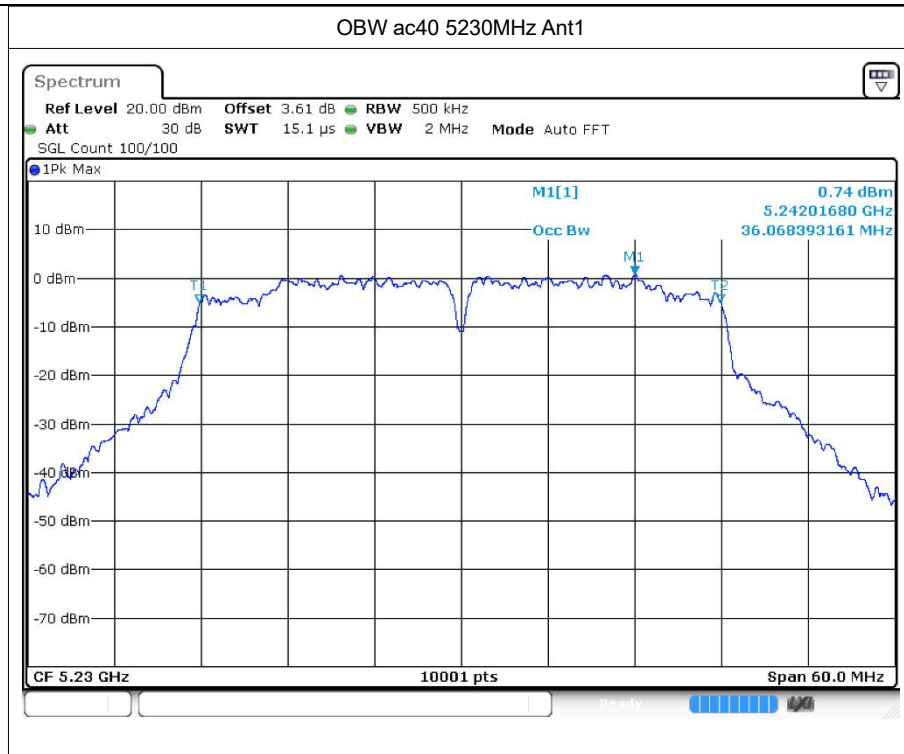


OBW ac20 5240MHz Ant1

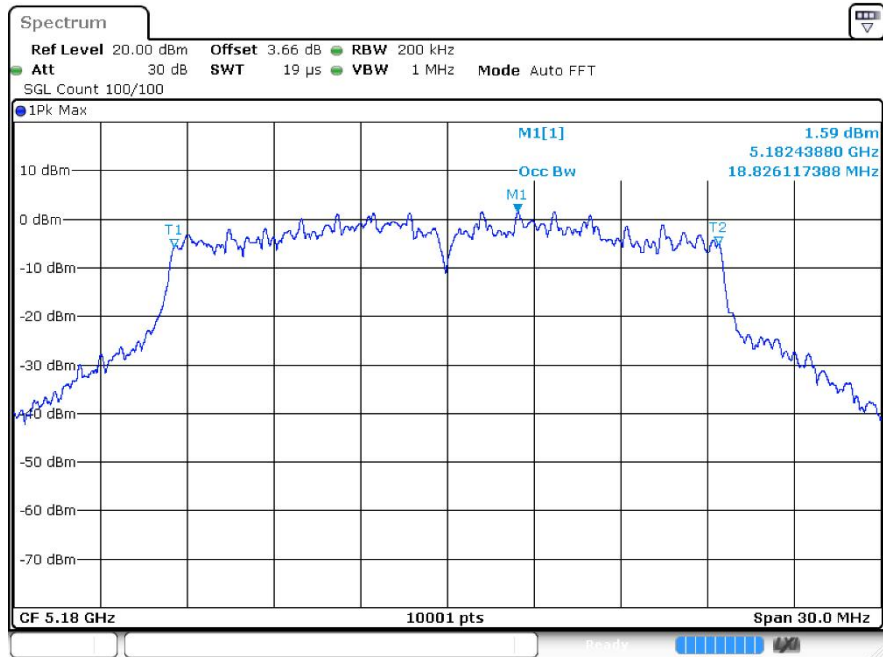


OBW ac40 5190MHz Ant1

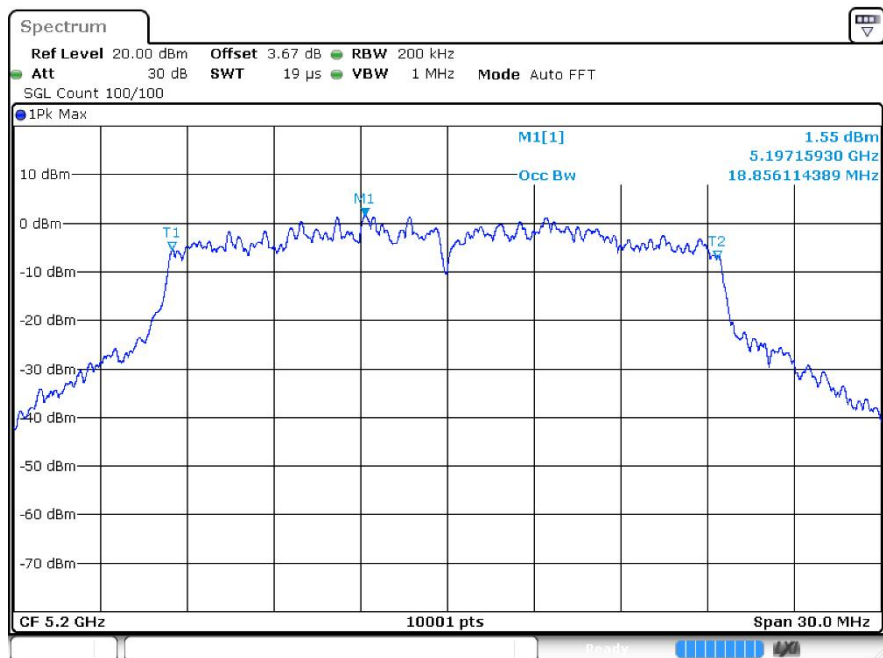




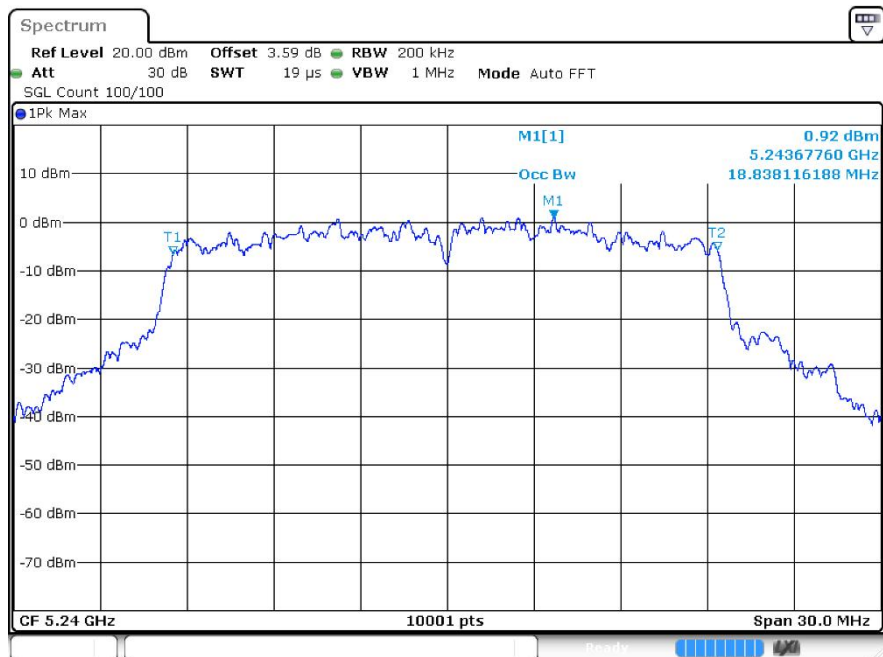
OBW ax20 5180MHz Ant1



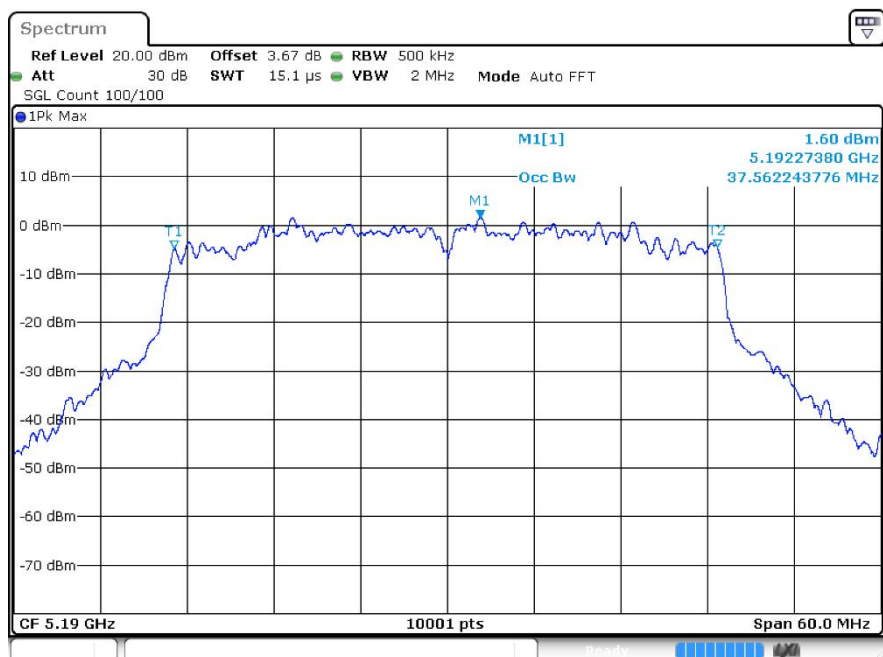
OBW ax20 5200MHz Ant1

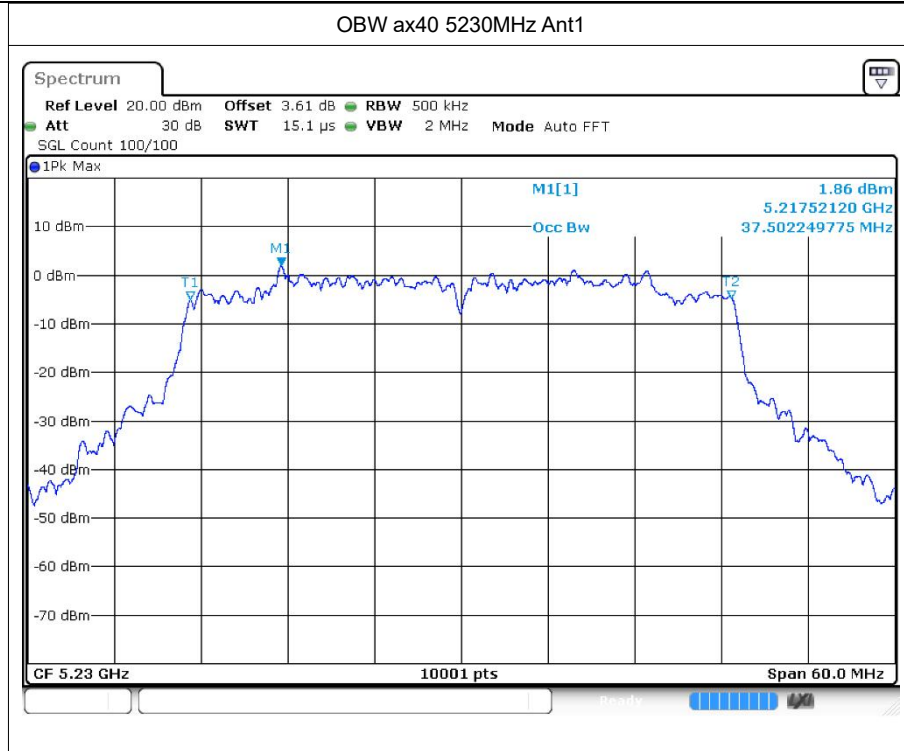


OBW ax20 5240MHz Ant1



OBW ax40 5190MHz Ant1



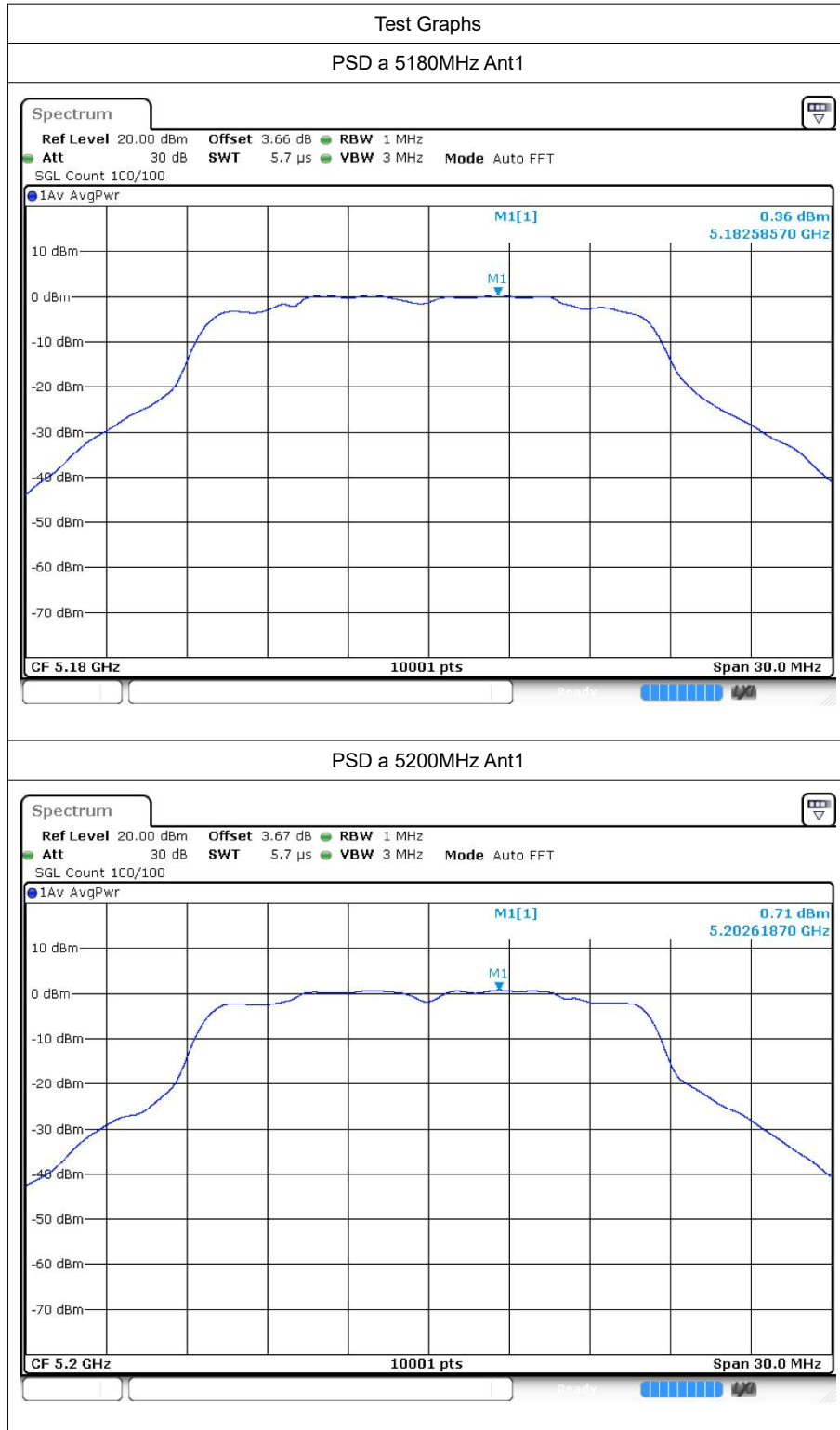


5 Maximum Power Spectral Density Level

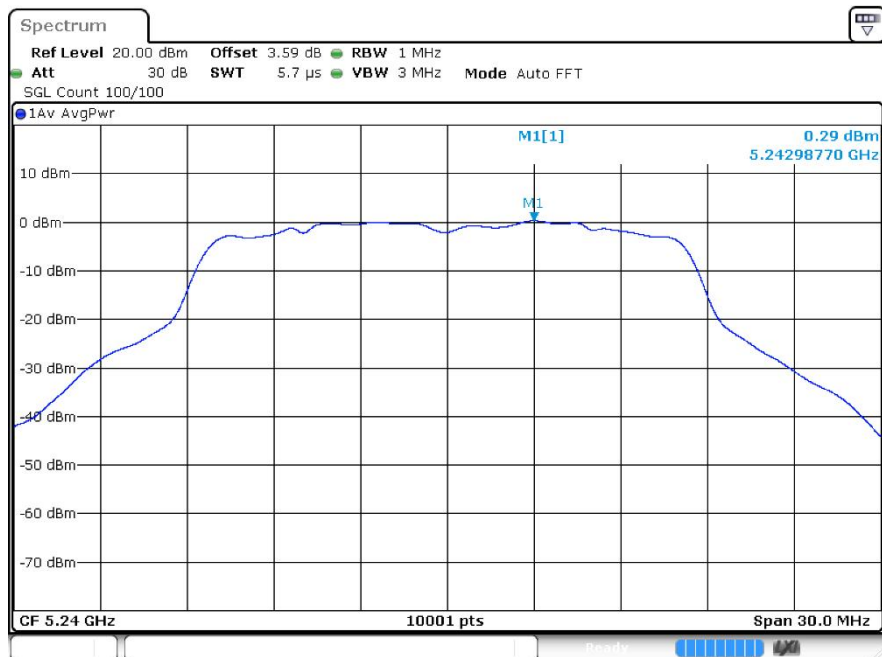
5.1 Test Result

Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm)	Duty Factor (dB)	Total PSD (dBm)	Limit (dBm)	Verdict
a	5180	Ant1	0.36	9.1	9.46	11	Pass
a	5200	Ant1	0.71	0.63	1.34	11	Pass
a	5240	Ant1	0.29	0.62	0.91	11	Pass
n20	5180	Ant1	0.5	0.58	1.08	11	Pass
n20	5200	Ant1	0.44	0.58	1.02	11	Pass
n20	5240	Ant1	0.72	0.58	1.3	11	Pass
n40	5190	Ant1	-3.3	0.56	-2.74	11	Pass
n40	5230	Ant1	-3.55	0.55	-3	11	Pass
ac20	5180	Ant1	-0.05	0.6	0.55	11	Pass
ac20	5200	Ant1	0.35	0.6	0.95	11	Pass
ac20	5240	Ant1	0.3	0.6	0.9	11	Pass
ac40	5190	Ant1	-3.62	0.51	-3.11	11	Pass
ac40	5230	Ant1	-3.36	0.6	-2.76	11	Pass
ax20	5180	Ant1	-0.81	0.6	-0.21	11	Pass
ax20	5200	Ant1	-0.74	0.6	-0.14	11	Pass
ax20	5240	Ant1	-0.43	0.6	0.17	11	Pass
ax40	5190	Ant1	-4.51	0.6	-3.91	11	Pass
ax40	5230	Ant1	-4.92	0.6	-4.32	11	Pass

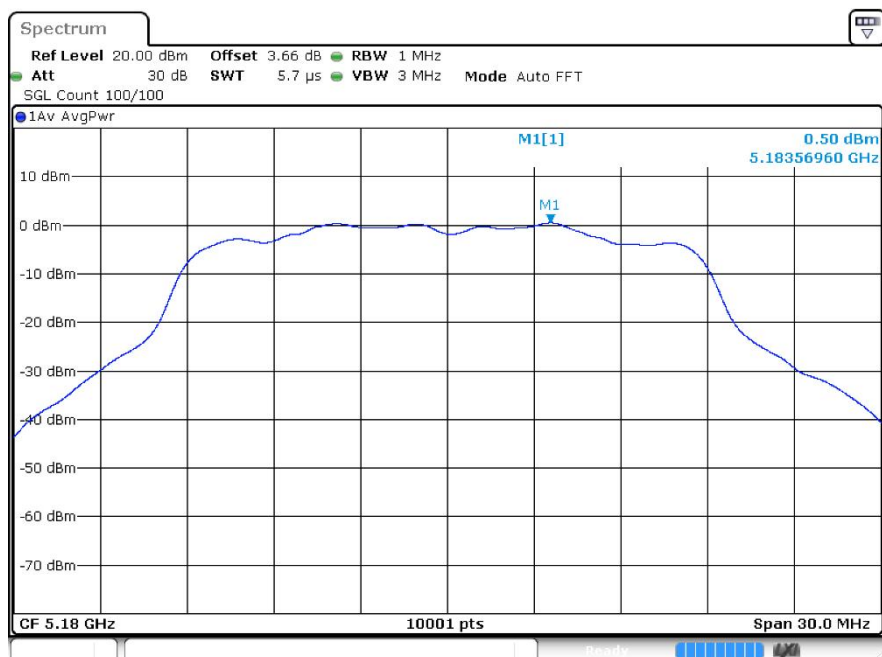
5.2 Test Graphs



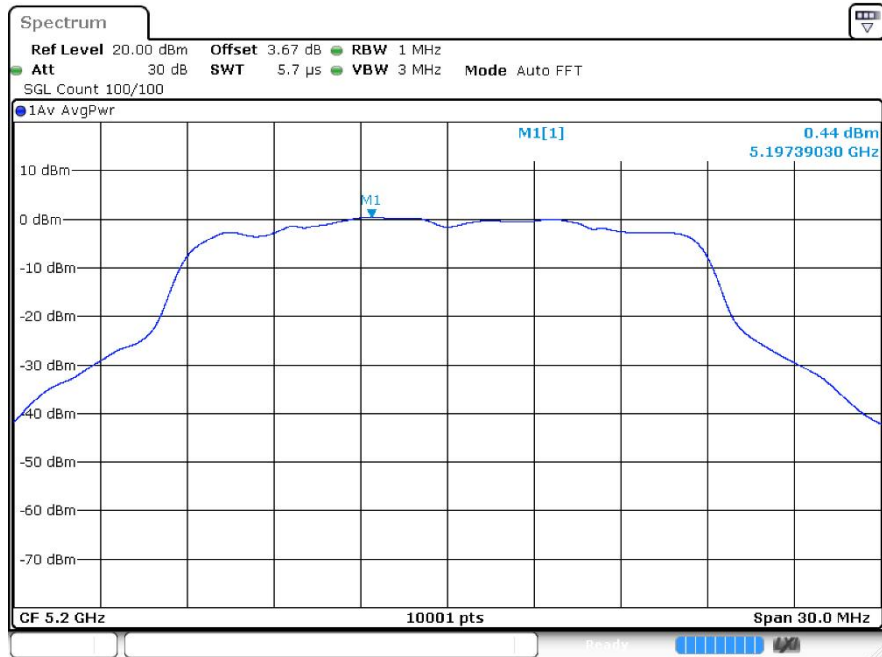
PSD a 5240MHz Ant1



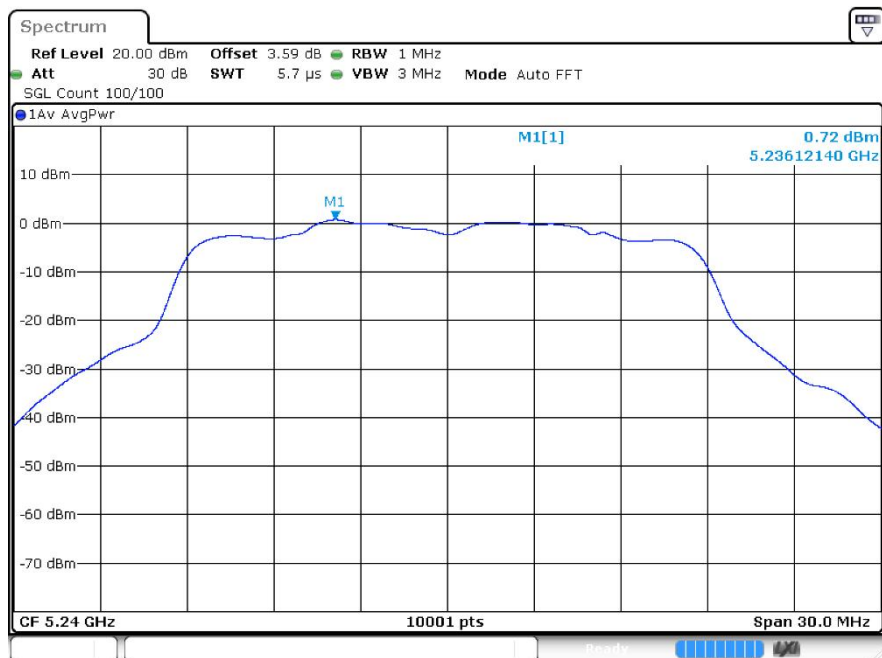
PSD n20 5180MHz Ant1



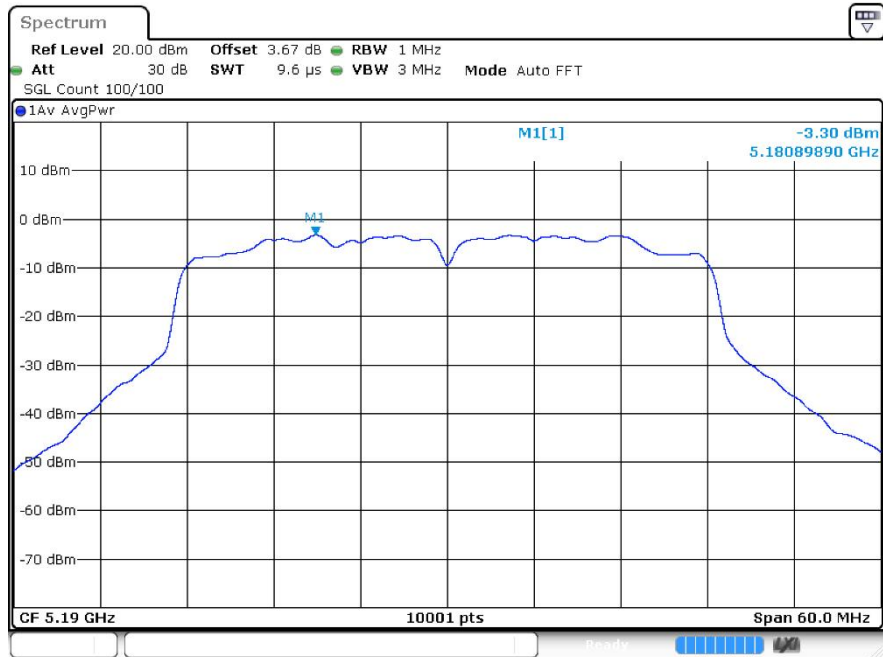
PSD n20 5200MHz Ant1



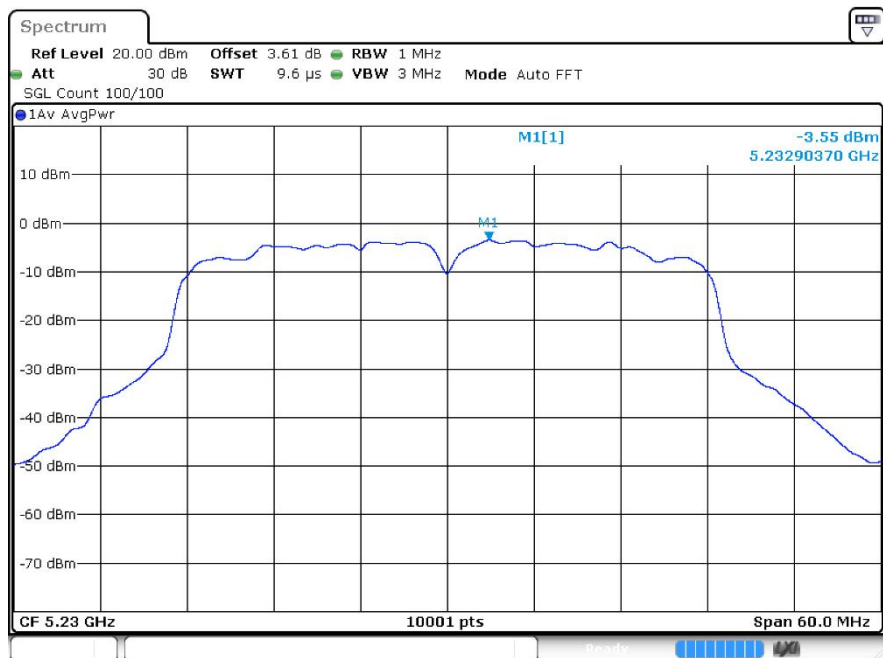
PSD n20 5240MHz Ant1



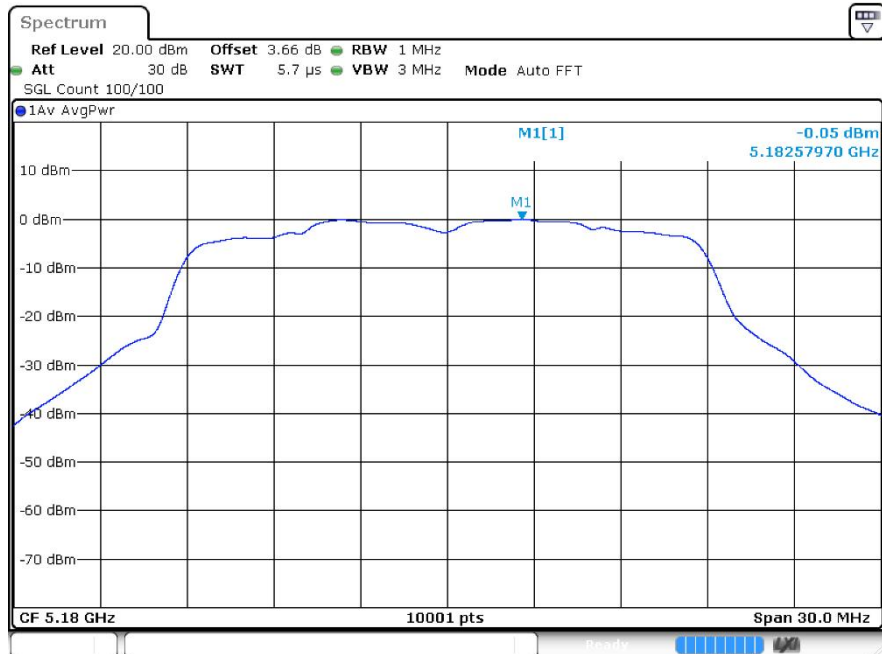
PSD n40 5190MHz Ant1



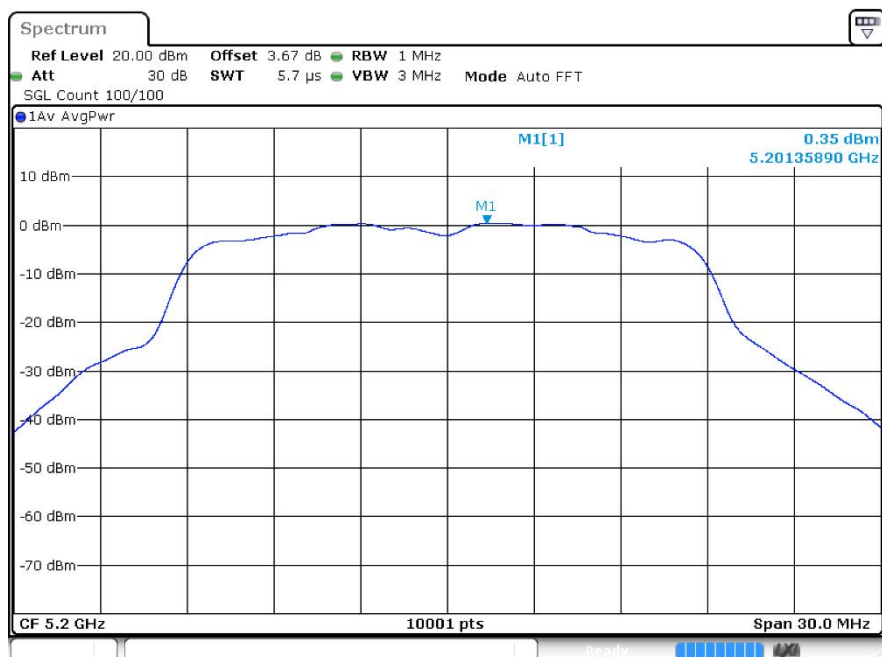
PSD n40 5230MHz Ant1



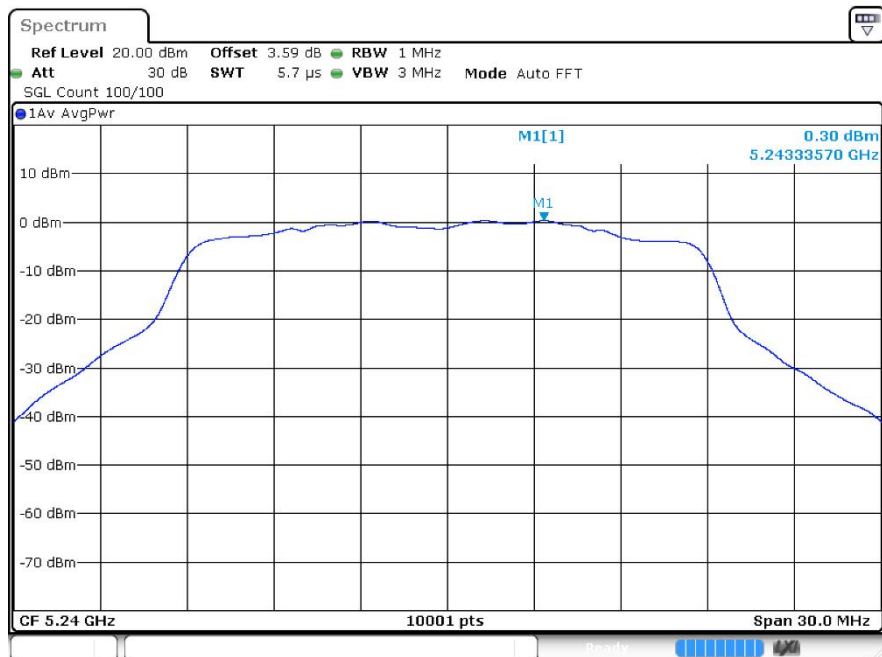
PSD ac20 5180MHz Ant1



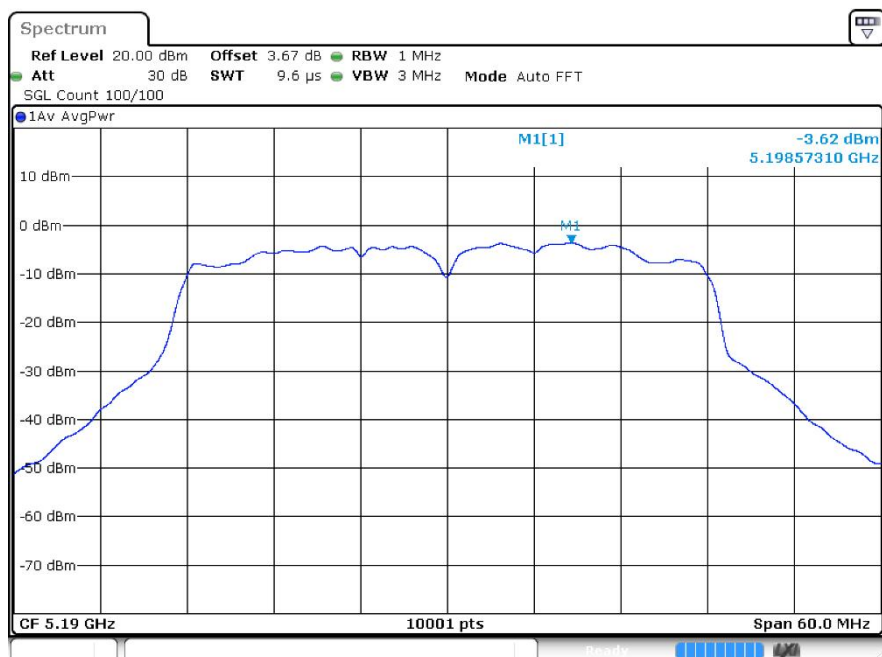
PSD ac20 5200MHz Ant1

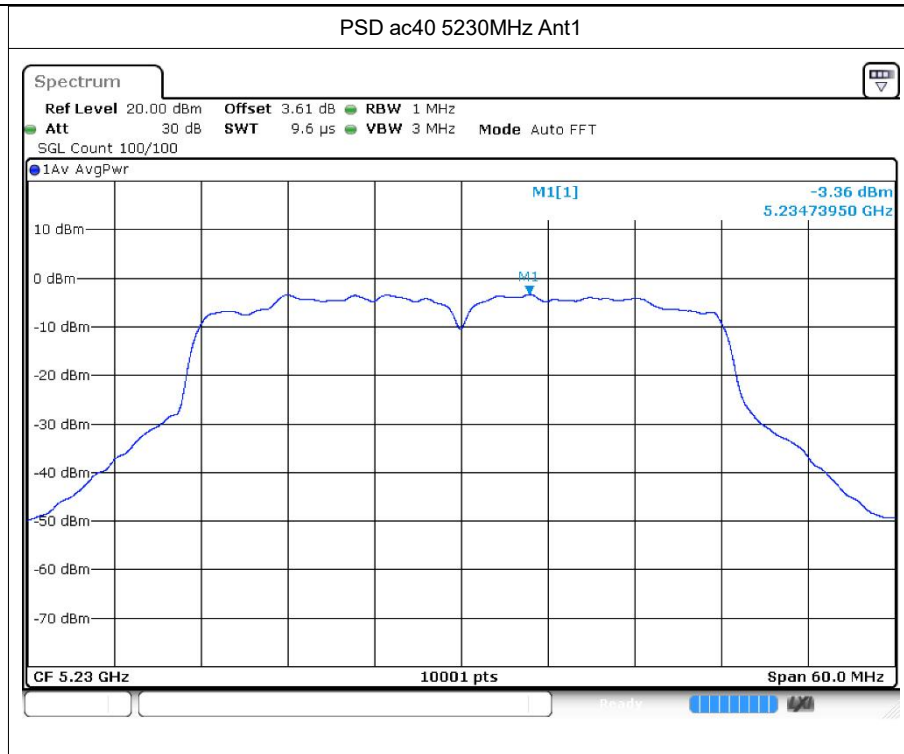


PSD ac20 5240MHz Ant1

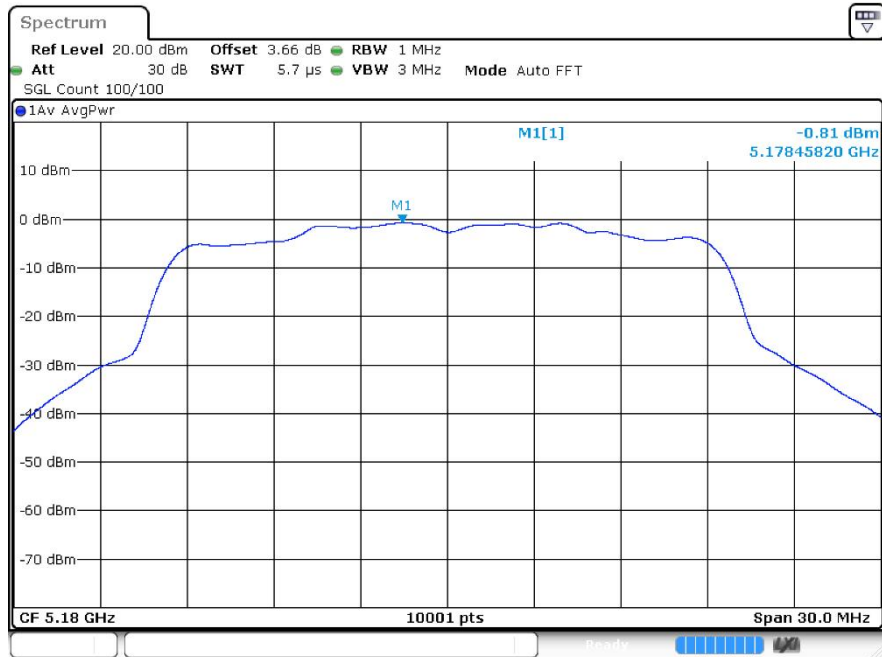


PSD ac40 5190MHz Ant1

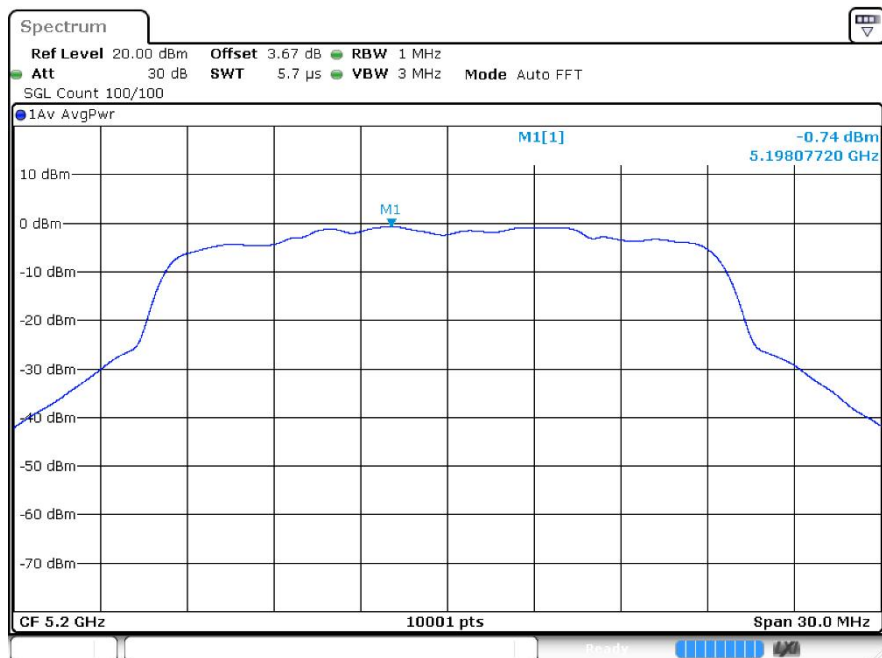




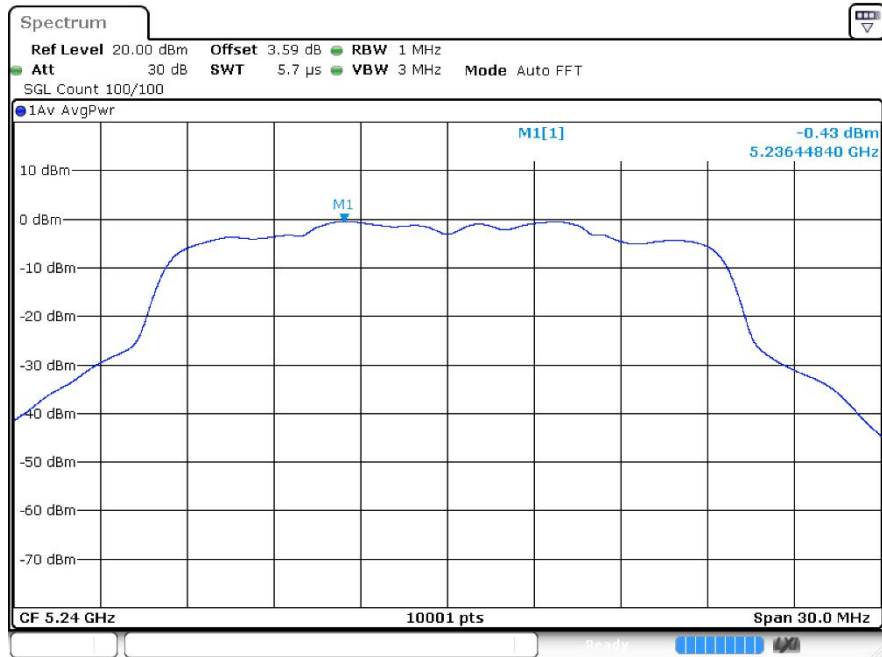
PSD ax20 5180MHz Ant1



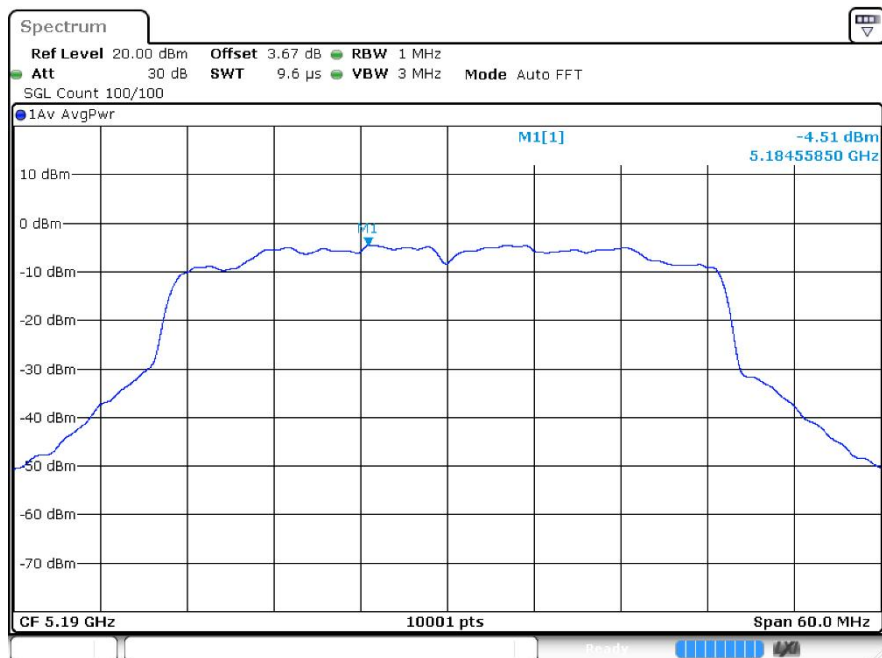
PSD ax20 5200MHz Ant1

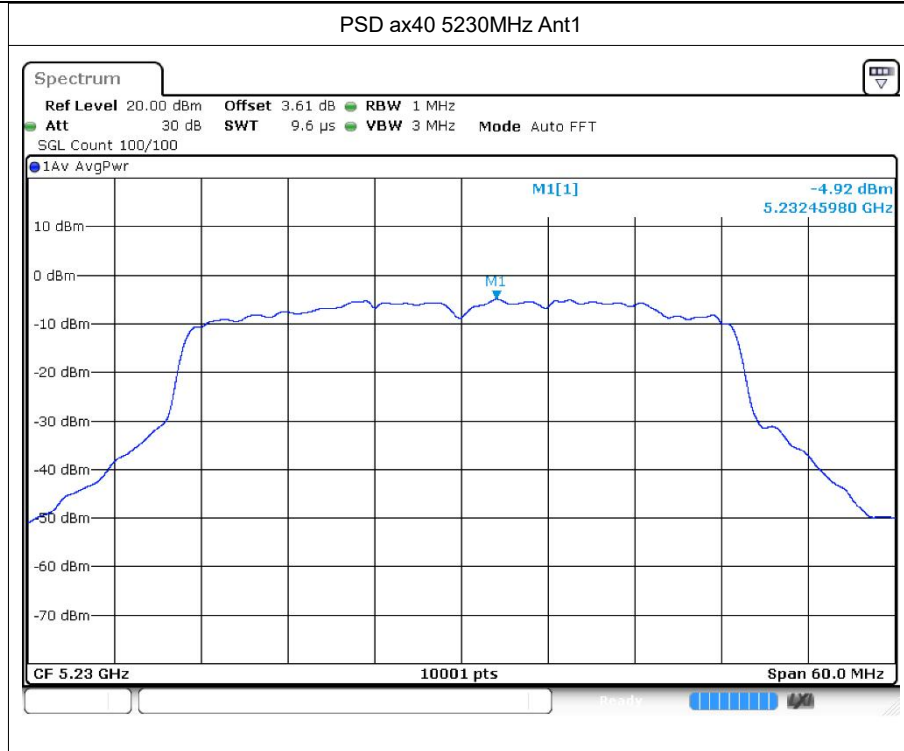


PSD ax20 5240MHz Ant1



PSD ax40 5190MHz Ant1







6 Frequency Stability

6.1 Test Result

Condition	Mode	Frequency (MHz)	Antenna	Measured Frequency (MHz)	Frequency Error (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
20C 102V	a	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 120V	a	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 138V	a	5180	Ant1	5179.92	-80000	-15.44	25	Pass
-20C 120V	a	5180	Ant1	5179.94	-60000	-11.58	25	Pass
-10C 120V	a	5180	Ant1	5179.92	-80000	-15.44	25	Pass
0C 120V	a	5180	Ant1	5179.94	-60000	-11.58	25	Pass
10C 120V	a	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 120V	a	5180	Ant1	5179.98	-20000	-3.86	25	Pass
40C 120V	a	5180	Ant1	5179.9	-100000	-19.31	25	Pass
50C 120V	a	5180	Ant1	5179.9	-100000	-19.31	25	Pass
20C 102V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 120V	a	5200	Ant1	5199.94	-60000	-11.54	25	Pass
20C 138V	a	5200	Ant1	5199.92	-80000	-15.38	25	Pass
-20C 120V	a	5200	Ant1	5199.92	-80000	-15.38	25	Pass
-10C 120V	a	5200	Ant1	5199.94	-60000	-11.54	25	Pass
0C 120V	a	5200	Ant1	5199.94	-60000	-11.54	25	Pass
10C 120V	a	5200	Ant1	5199.94	-60000	-11.54	25	Pass
30C 120V	a	5200	Ant1	5199.92	-80000	-15.38	25	Pass
40C 120V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	a	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 138V	a	5240	Ant1	5239.92	-80000	-15.27	25	Pass
-20C 120V	a	5240	Ant1	5239.94	-60000	-11.45	25	Pass
-10C 120V	a	5240	Ant1	5239.96	-40000	-7.63	25	Pass
0C 120V	a	5240	Ant1	5239.92	-80000	-15.27	25	Pass
10C 120V	a	5240	Ant1	5239.94	-60000	-11.45	25	Pass
30C 120V	a	5240	Ant1	5239.94	-60000	-11.45	25	Pass
40C 120V	a	5240	Ant1	5239.94	-60000	-11.45	25	Pass
50C 120V	a	5240	Ant1	5239.92	-80000	-15.27	25	Pass
20C 102V	n20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 120V	n20	5180	Ant1	5179.92	-80000	-15.44	25	Pass
20C 138V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
-20C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-10C 120V	n20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass



10C 120V	n20	5180	Ant1	5179.92	-80000	-15.44	25	Pass
30C 120V	n20	5180	Ant1	5179.92	-80000	-15.44	25	Pass
40C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	n20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 102V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
20C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
20C 138V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
-20C 120V	n20	5200	Ant1	5199.92	-80000	-15.38	25	Pass
-10C 120V	n20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
0C 120V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
10C 120V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
30C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
40C 120V	n20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
50C 120V	n20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	n20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
20C 120V	n20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
20C 138V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
-10C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
0C 120V	n20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
10C 120V	n20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	n20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
40C 120V	n20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
50C 120V	n20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 102V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 120V	n40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
20C 138V	n40	5190	Ant1	5190	0	0	25	Pass
-20C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-10C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
0C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
10C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	n40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
50C 120V	n40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 102V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 138V	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
-20C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-10C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
0C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
10C 120V	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
30C 120V	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
40C 120V	n40	5230	Ant1	5229.96	-40000	-7.65	25	Pass



50C 120V	n40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
20C 102V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
20C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 138V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
-20C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
-10C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
0C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
10C 120V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
30C 120V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
40C 120V	ac20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
50C 120V	ac20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
20C 102V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 138V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-20C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
-10C 120V	ac20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
0C 120V	ac20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
10C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
30C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
40C 120V	ac20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
50C 120V	ac20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	ac20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
20C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 138V	ac20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
-20C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-10C 120V	ac20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
0C 120V	ac20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
10C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
30C 120V	ac20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
40C 120V	ac20	5240	Ant1	5239.98	-20000	-3.82	25	Pass
50C 120V	ac20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
20C 102V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 120V	ac40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
20C 138V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-20C 120V	ac40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
-10C 120V	ac40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
0C 120V	ac40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
10C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	ac40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
50C 120V	ac40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 102V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass



20C 138V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-20C 120V	ac40	5230	Ant1	5230	0	0	25	Pass
-10C 120V	ac40	5230	Ant1	5229.92	-80000	-15.3	25	Pass
0C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
10C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
30C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
40C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
50C 120V	ac40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
20C 102V	ax20	5180	Ant1	5179.92	-80000	-15.44	25	Pass
20C 120V	ax20	5180	Ant1	5179.92	-80000	-15.44	25	Pass
20C 138V	ax20	5180	Ant1	5180	0	0	25	Pass
-20C 120V	ax20	5180	Ant1	5179.94	-60000	-11.58	25	Pass
-10C 120V	ax20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
0C 120V	ax20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
10C 120V	ax20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
30C 120V	ax20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
40C 120V	ax20	5180	Ant1	5179.96	-40000	-7.72	25	Pass
50C 120V	ax20	5180	Ant1	5179.98	-20000	-3.86	25	Pass
20C 102V	ax20	5200	Ant1	5199.92	-80000	-15.38	25	Pass
20C 120V	ax20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
20C 138V	ax20	5200	Ant1	5199.94	-60000	-11.54	25	Pass
-20C 120V	ax20	5200	Ant1	5199.98	-20000	-3.85	25	Pass
-10C 120V	ax20	5200	Ant1	5199.92	-80000	-15.38	25	Pass
0C 120V	ax20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
10C 120V	ax20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
30C 120V	ax20	5200	Ant1	5199.92	-80000	-15.38	25	Pass
40C 120V	ax20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
50C 120V	ax20	5200	Ant1	5199.96	-40000	-7.69	25	Pass
20C 102V	ax20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
20C 120V	ax20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
20C 138V	ax20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
-20C 120V	ax20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
-10C 120V	ax20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
0C 120V	ax20	5240	Ant1	5239.96	-40000	-7.63	25	Pass
10C 120V	ax20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
30C 120V	ax20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
40C 120V	ax20	5240	Ant1	5239.94	-60000	-11.45	25	Pass
50C 120V	ax20	5240	Ant1	5239.92	-80000	-15.27	25	Pass
20C 102V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
20C 120V	ax40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
20C 138V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
-20C 120V	ax40	5190	Ant1	5189.88	-120000	-23.12	25	Pass
-10C 120V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass



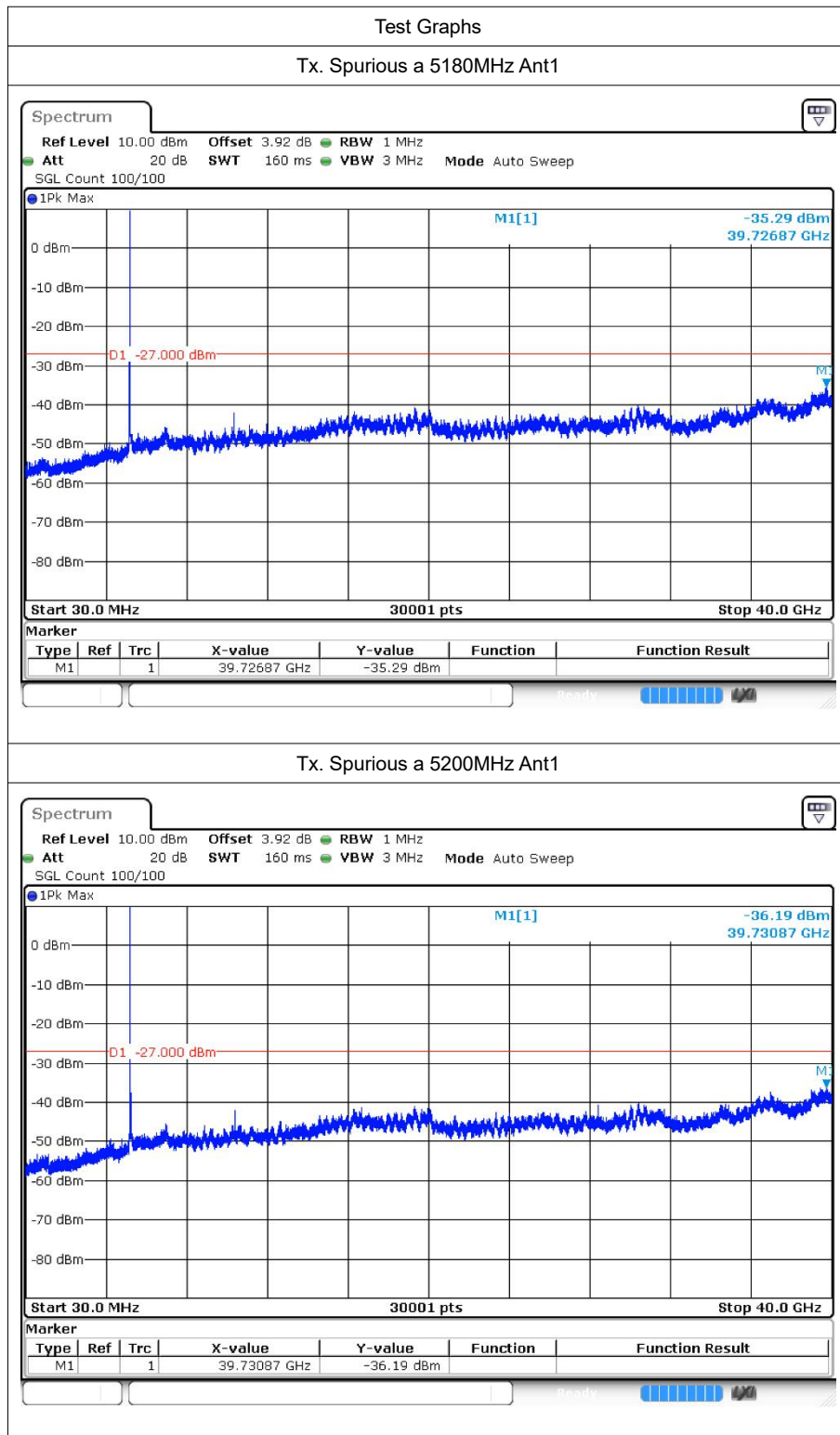
0C 120V	ax40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
10C 120V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
30C 120V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
40C 120V	ax40	5190	Ant1	5189.96	-40000	-7.71	25	Pass
50C 120V	ax40	5190	Ant1	5189.92	-80000	-15.41	25	Pass
20C 102V	ax40	5230	Ant1	5230	0	0	25	Pass
20C 120V	ax40	5230	Ant1	5230	0	0	25	Pass
20C 138V	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
-20C 120V	ax40	5230	Ant1	5230	0	0	25	Pass
-10C 120V	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
0C 120V	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
10C 120V	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
30C 120V	ax40	5230	Ant1	5229.96	-40000	-7.65	25	Pass
40C 120V	ax40	5230	Ant1	5230	0	0	25	Pass
50C 120V	ax40	5230	Ant1	5229.92	-80000	-15.3	25	Pass

7 Conducted RF Spurious Emission

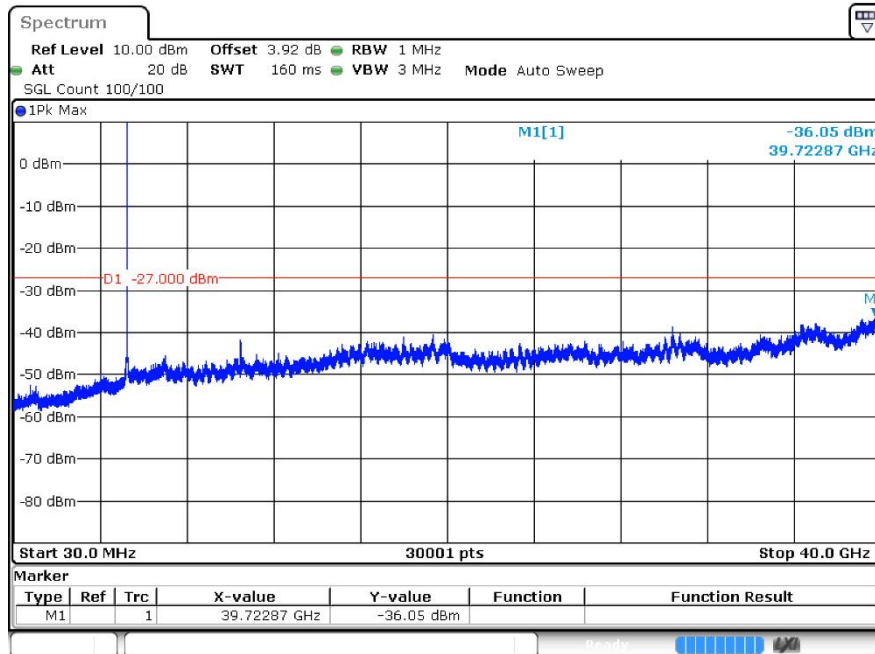
7.1 Test Result

Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
a	5180	Ant1	-35.28	-27	Pass
a	5200	Ant1	-36.18	-27	Pass
a	5240	Ant1	-36.05	-27	Pass
n20	5180	Ant1	-36.11	-27	Pass
n20	5200	Ant1	-35.9	-27	Pass
n20	5240	Ant1	-36.1	-27	Pass
n40	5190	Ant1	-35.8	-27	Pass
n40	5230	Ant1	-35.9	-27	Pass
ac20	5180	Ant1	-36.27	-27	Pass
ac20	5200	Ant1	-36.25	-27	Pass
ac20	5240	Ant1	-35.78	-27	Pass
ac40	5190	Ant1	-35.85	-27	Pass
ac40	5230	Ant1	-35.61	-27	Pass
ax20	5180	Ant1	-36.06	-27	Pass
ax20	5200	Ant1	-36.13	-27	Pass
ax20	5240	Ant1	-36.27	-27	Pass
ax40	5190	Ant1	-35.69	-27	Pass
ax40	5230	Ant1	-35.93	-27	Pass

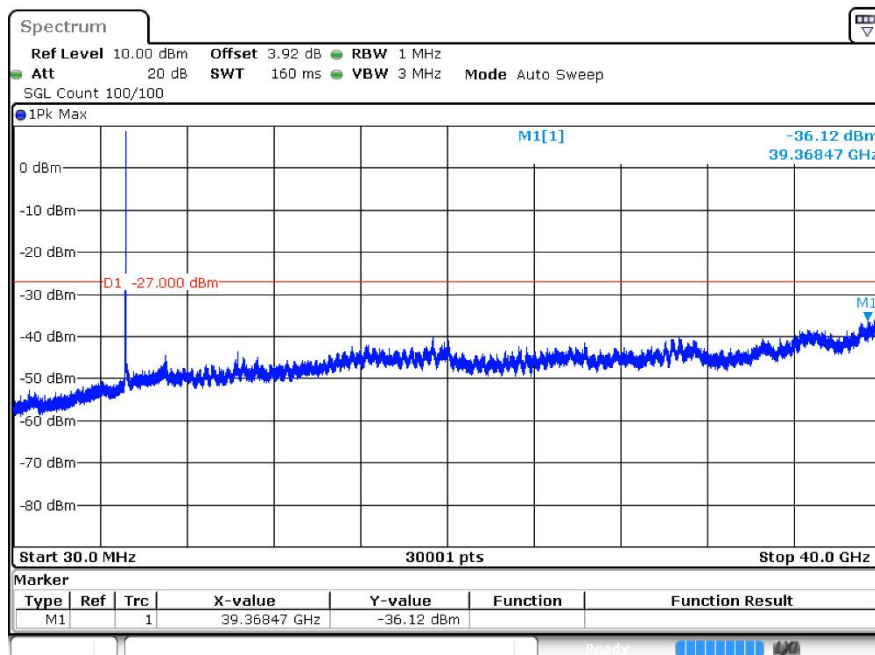
7.2 Test Graphs



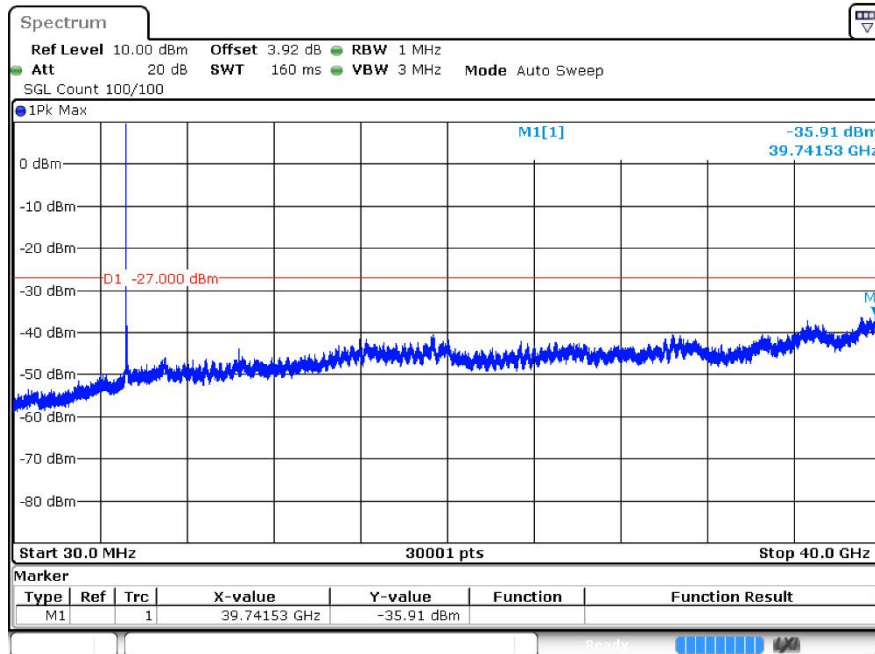
Tx. Spurious a 5240MHz Ant1



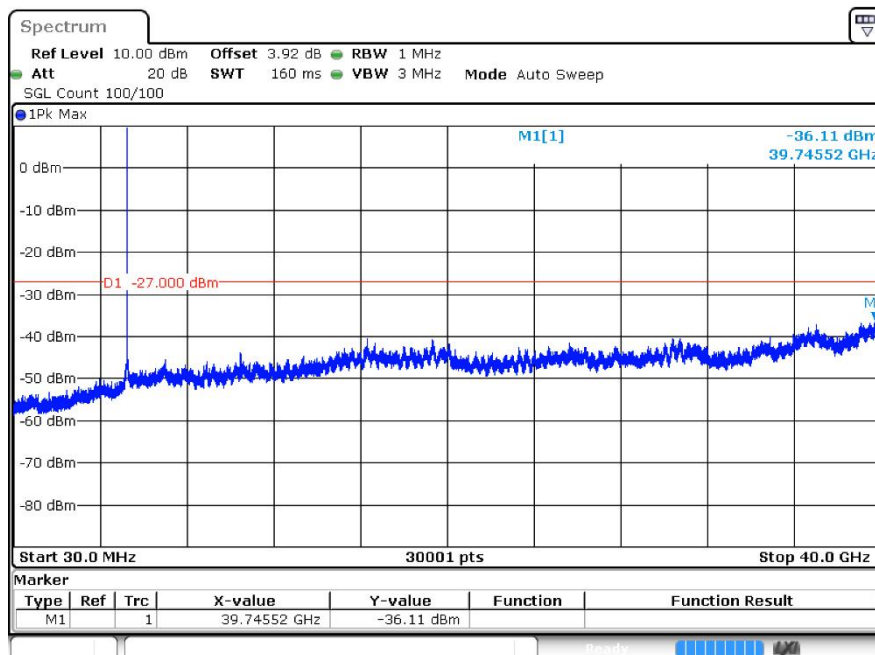
Tx. Spurious n20 5180MHz Ant1



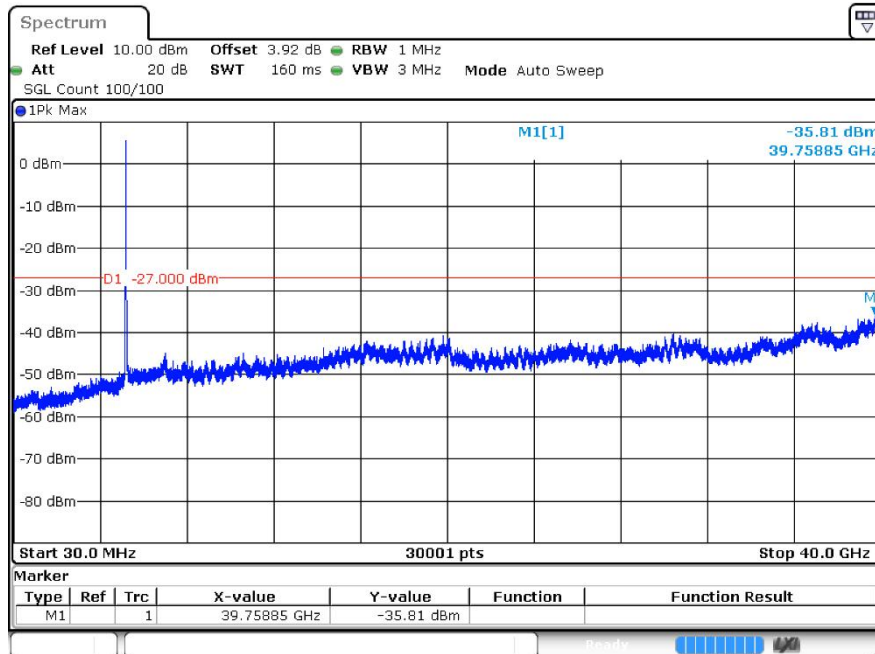
Tx. Spurious n20 5200MHz Ant1



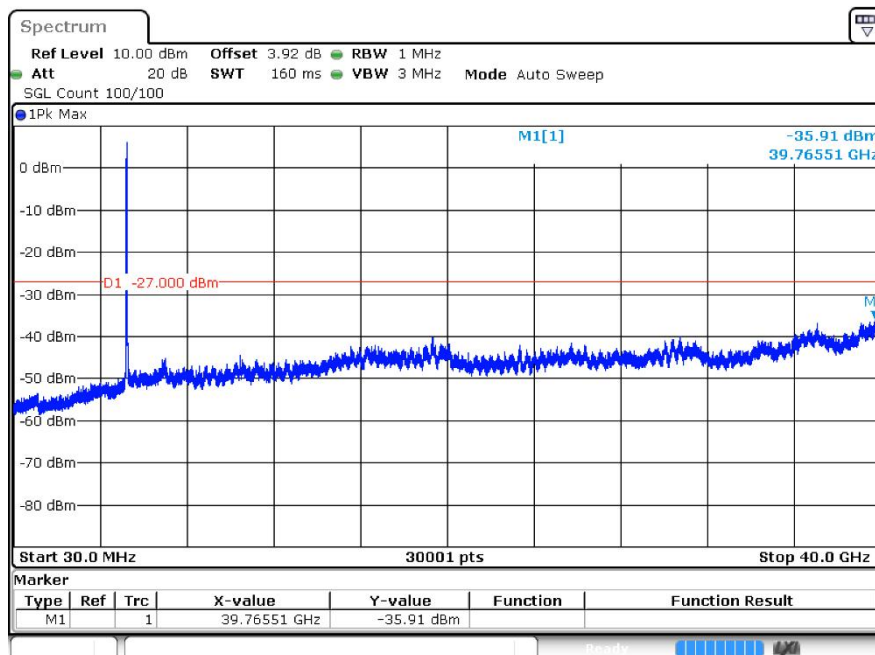
Tx. Spurious n20 5240MHz Ant1



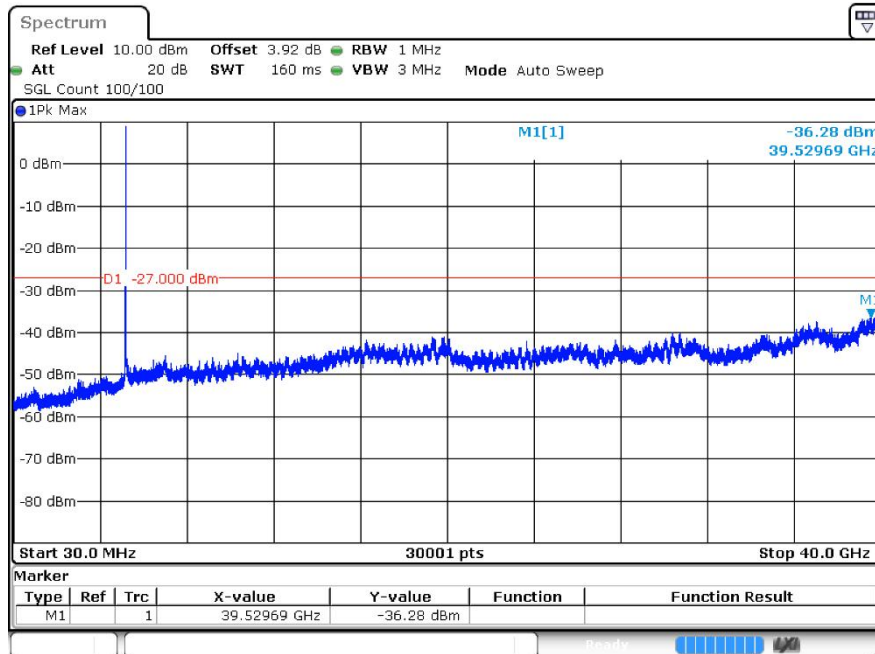
Tx. Spurious n40 5190MHz Ant1



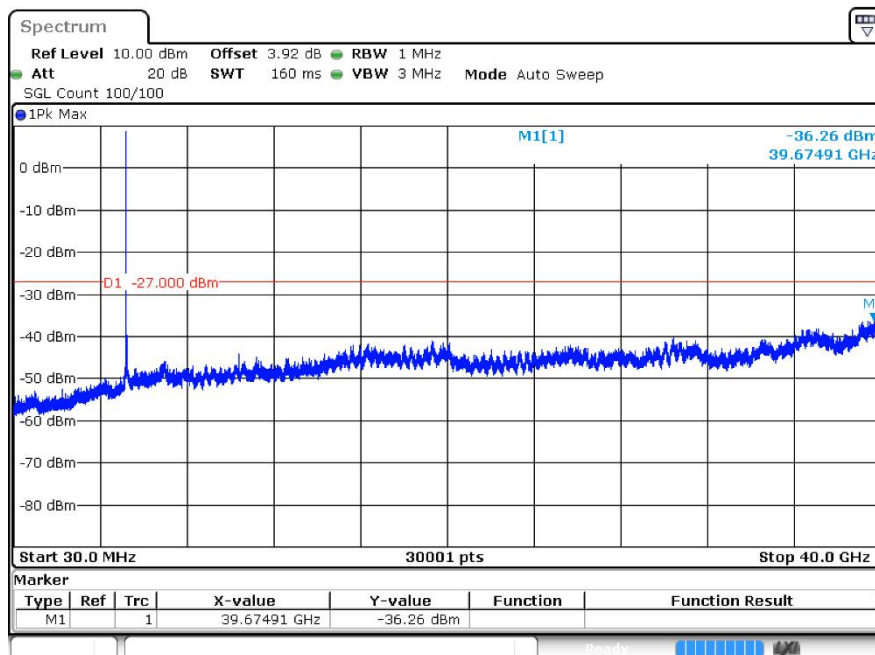
Tx. Spurious n40 5230MHz Ant1



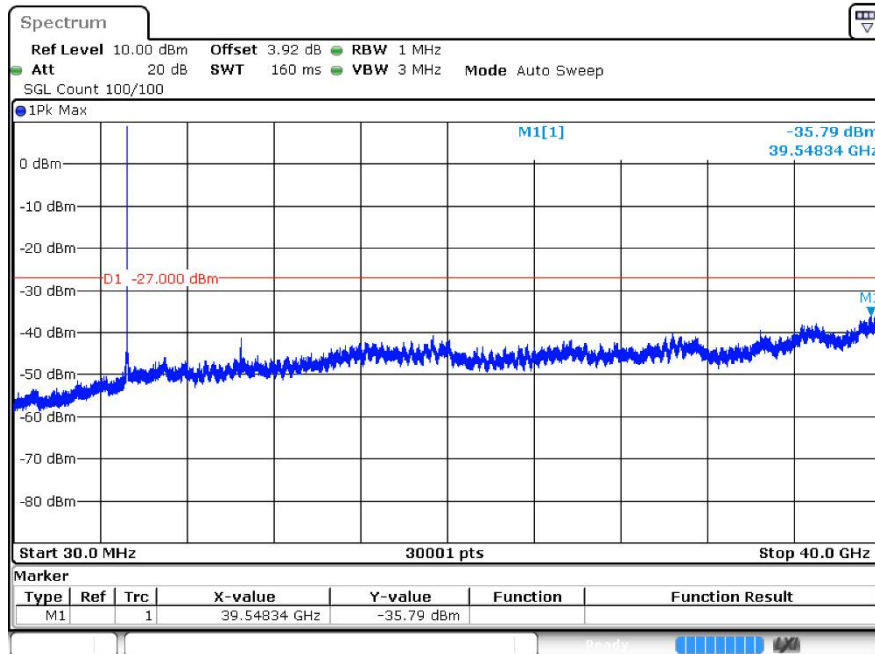
Tx. Spurious ac20 5180MHz Ant1



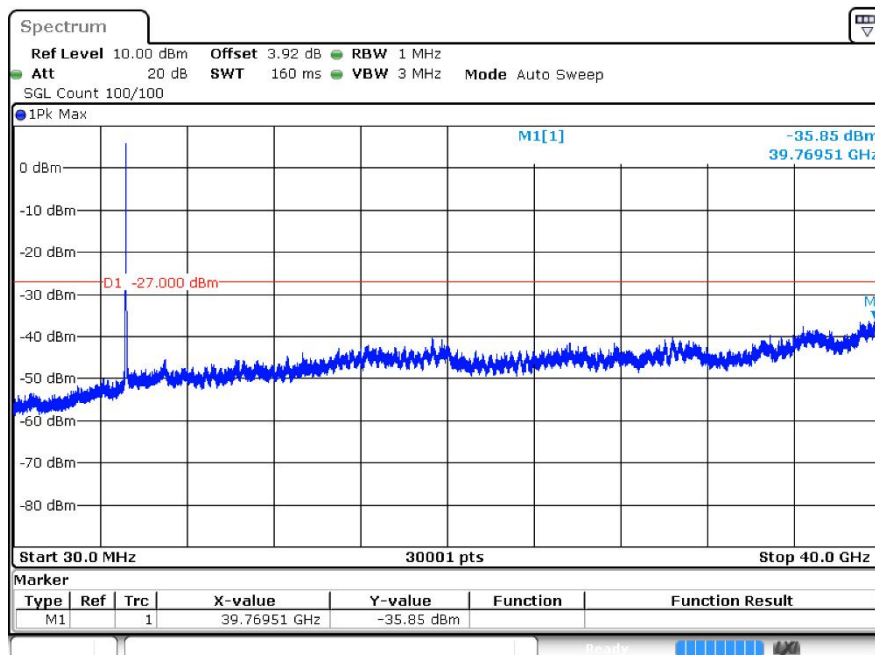
Tx. Spurious ac20 5200MHz Ant1

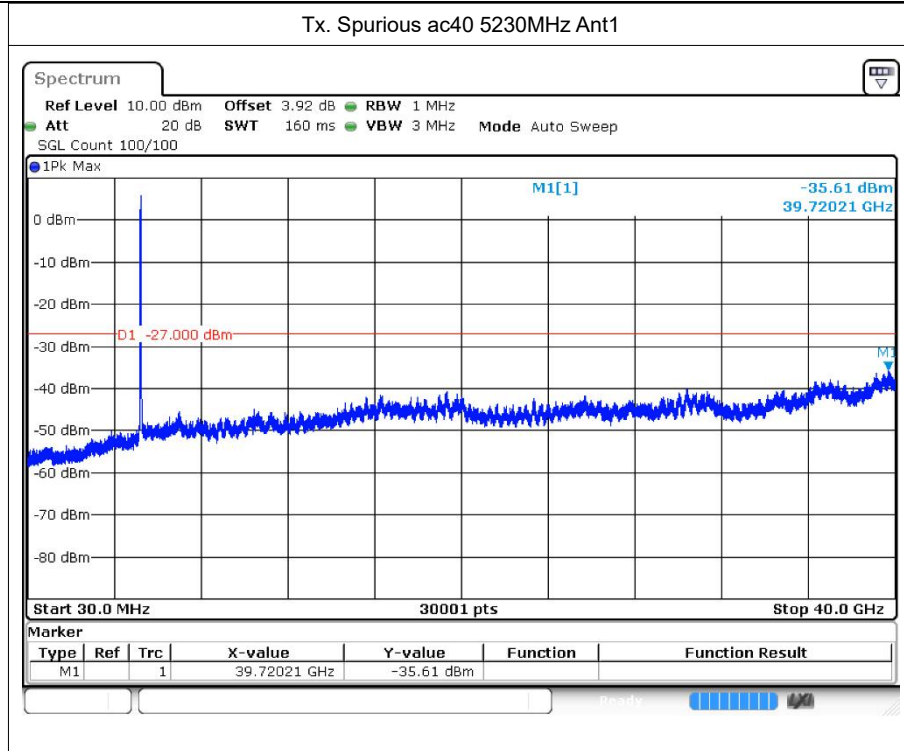


Tx. Spurious ac20 5240MHz Ant1

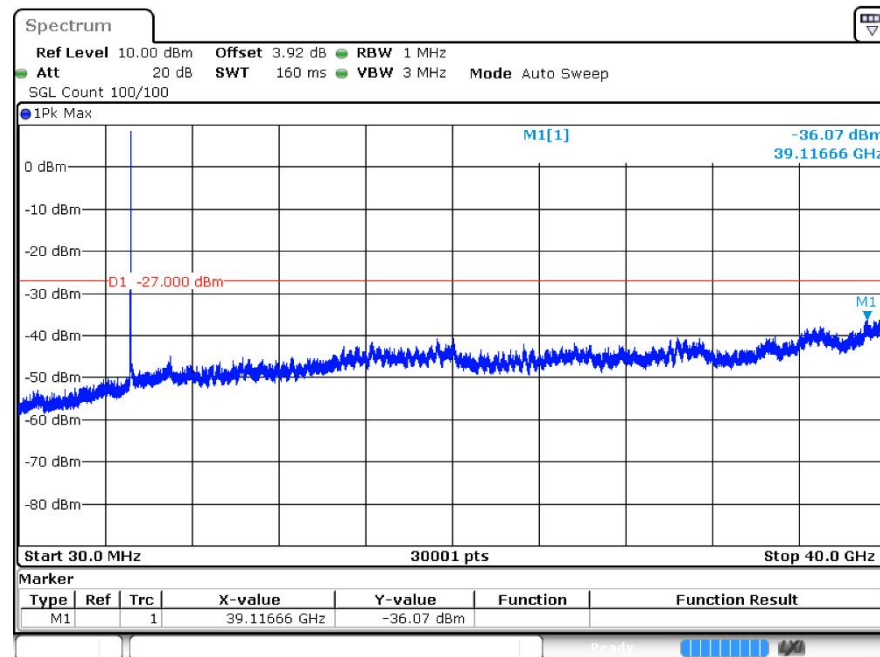


Tx. Spurious ac40 5190MHz Ant1

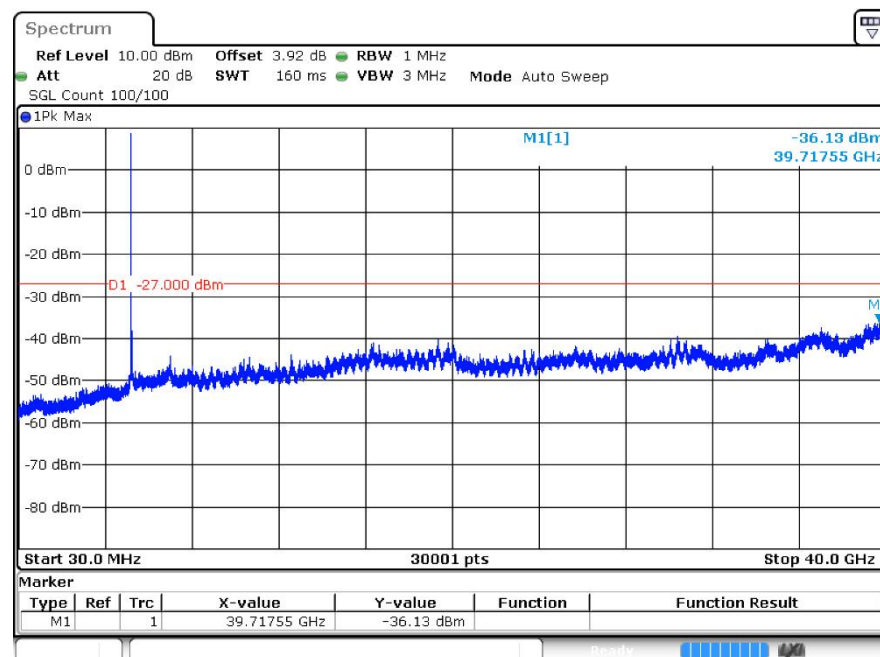




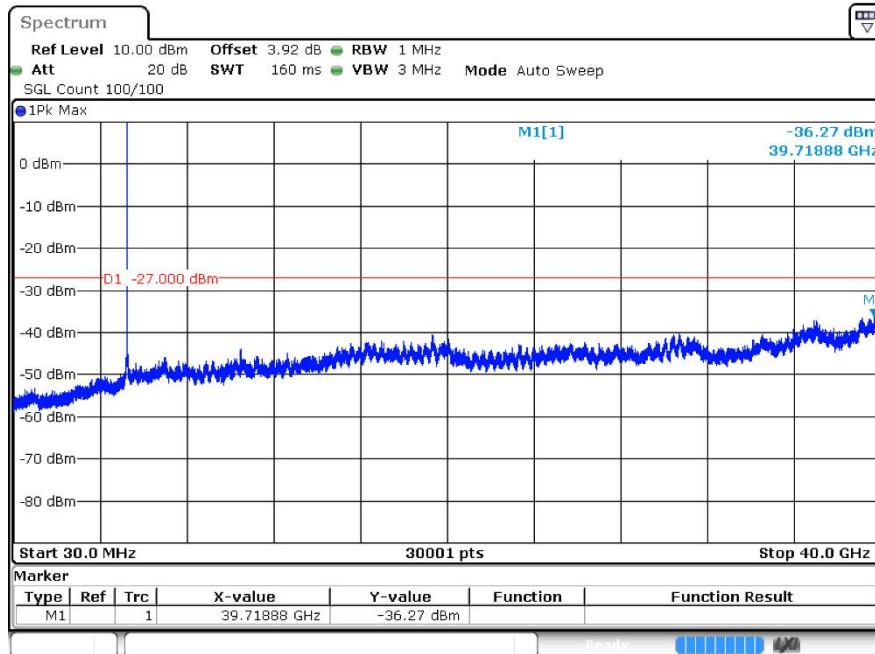
Tx. Spurious ax20 5180MHz Ant1



Tx. Spurious ax20 5200MHz Ant1



Tx. Spurious ax20 5240MHz Ant1



Tx. Spurious ax40 5190MHz Ant1

