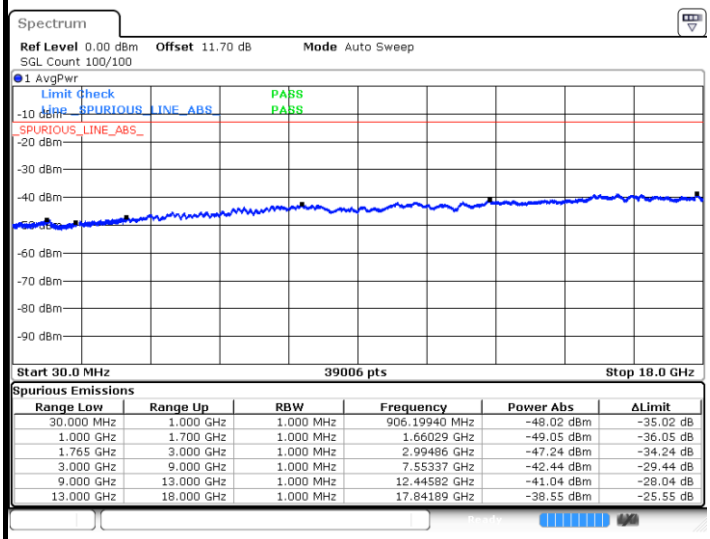
LTE Band 4 / 5MHz

Highest Channel / QPSK

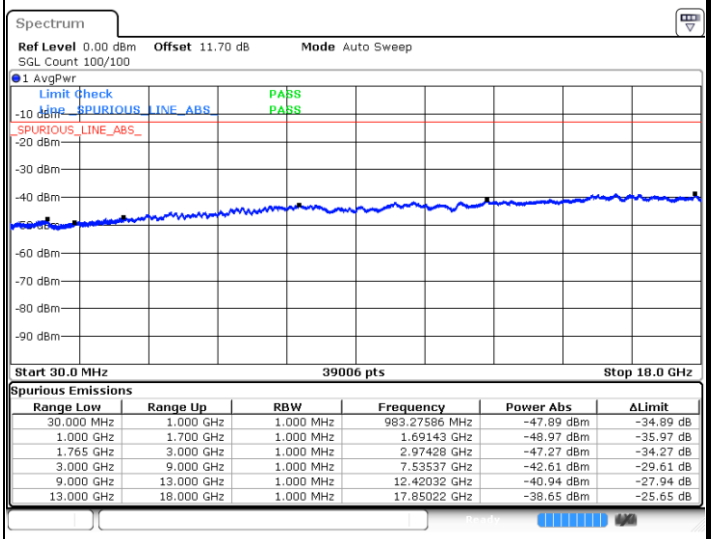


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	906.19940 MHz	-48.02 dBm	-35.02 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66029 GHz	-49.05 dBm	-36.05 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99486 GHz	-47.24 dBm	-34.24 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55337 GHz	-42.44 dBm	-29.44 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44582 GHz	-41.04 dBm	-28.04 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84189 GHz	-38.55 dBm	-25.55 dB

Date: 28.DEC.2019 14:27:08

Highest Channel / 16QAM



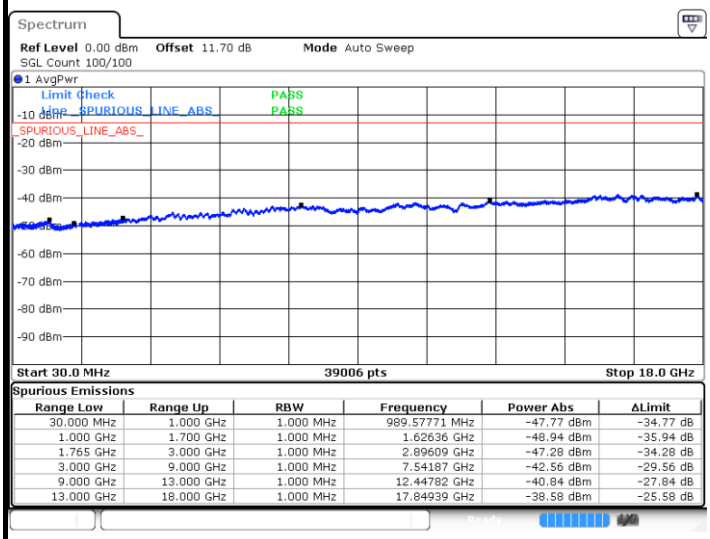
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.27586 MHz	-47.89 dBm	-34.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69143 GHz	-48.97 dBm	-35.97 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97428 GHz	-47.27 dBm	-34.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53537 GHz	-42.61 dBm	-29.61 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42032 GHz	-40.94 dBm	-27.94 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85022 GHz	-38.65 dBm	-25.65 dB

Date: 28.DEC.2019 14:27:49

LTE Band 4 / 10MHz

Lowest Channel / QPSK

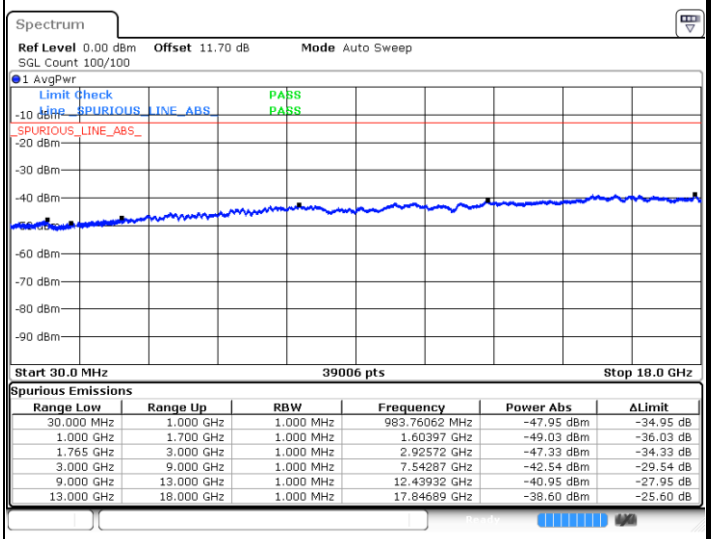


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.57771 MHz	-47.77 dBm	-34.77 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62636 GHz	-48.94 dBm	-35.94 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.89609 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54187 GHz	-42.56 dBm	-29.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44782 GHz	-40.84 dBm	-27.84 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84939 GHz	-38.58 dBm	-25.58 dB

Date: 28.DEC.2019 14:33:22

Lowest Channel / 16QAM



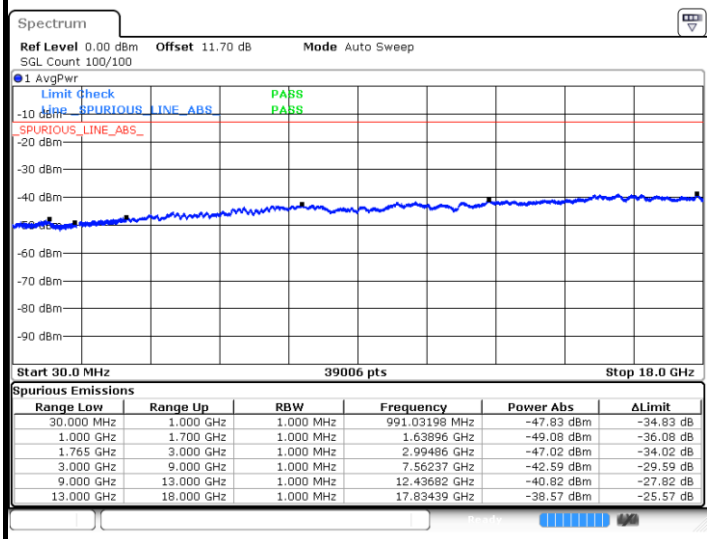
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.76062 MHz	-47.95 dBm	-34.95 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.60397 GHz	-49.03 dBm	-36.03 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.92572 GHz	-47.33 dBm	-34.33 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54287 GHz	-42.54 dBm	-29.54 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43932 GHz	-40.95 dBm	-27.95 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84689 GHz	-38.60 dBm	-25.60 dB

Date: 28.DEC.2019 14:34:03

LTE Band 4 / 10MHz

Middle Channel / QPSK

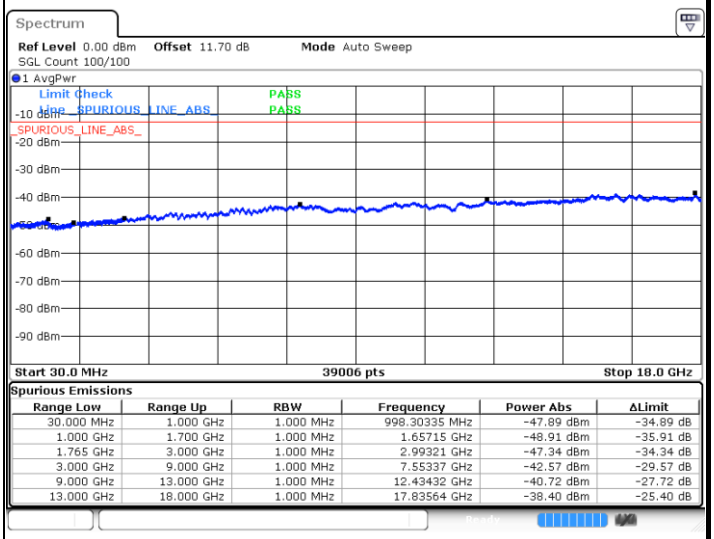


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-47.83 dBm	-34.83 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63896 GHz	-49.08 dBm	-36.08 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99486 GHz	-47.02 dBm	-34.02 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.56237 GHz	-42.59 dBm	-29.59 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43682 GHz	-40.82 dBm	-27.82 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83439 GHz	-38.57 dBm	-25.57 dB

Date: 28.DEC.2019 14:35:30

Middle Channel / 16QAM

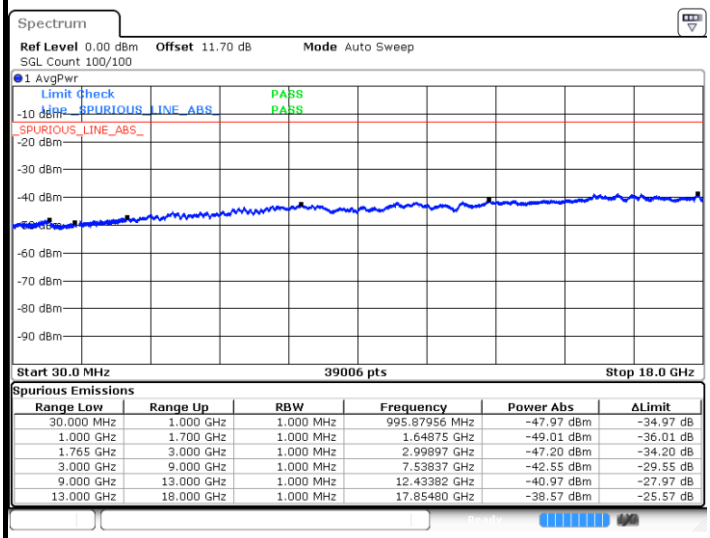


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-47.89 dBm	-34.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65715 GHz	-48.91 dBm	-35.91 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99321 GHz	-47.34 dBm	-34.34 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55337 GHz	-42.57 dBm	-29.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43432 GHz	-40.72 dBm	-27.72 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83564 GHz	-38.40 dBm	-25.40 dB

Date: 28.DEC.2019 14:36:10

Highest Channel / QPSK

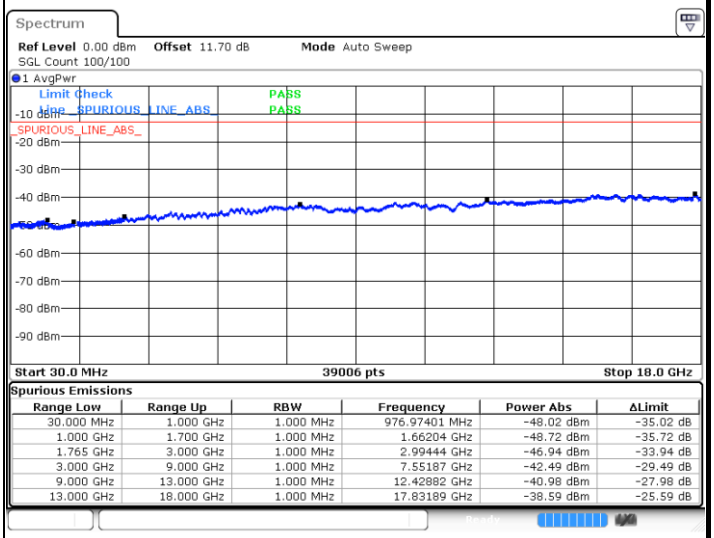


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.87956 MHz	-47.97 dBm	-34.97 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64875 GHz	-49.01 dBm	-36.01 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99897 GHz	-47.20 dBm	-34.20 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53837 GHz	-42.55 dBm	-29.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43382 GHz	-40.97 dBm	-27.97 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85480 GHz	-38.57 dBm	-25.57 dB

Date: 28.DEC.2019 14:41:42

Highest Channel / 16QAM



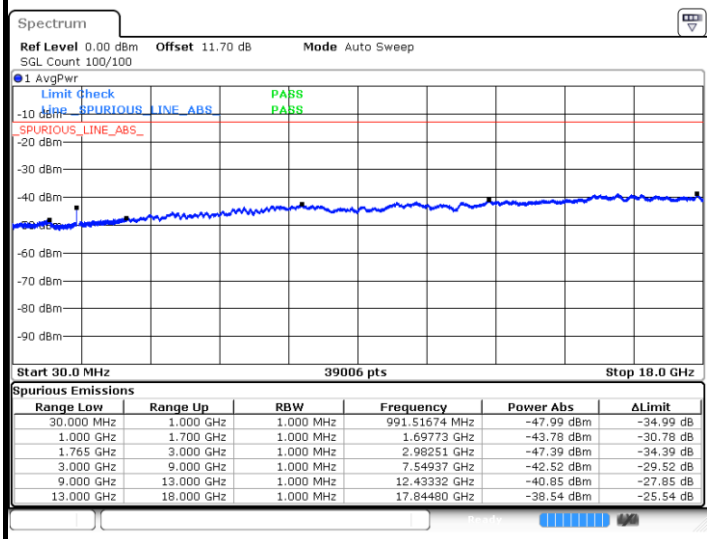
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.97401 MHz	-48.02 dBm	-35.02 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66204 GHz	-48.72 dBm	-35.72 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99444 GHz	-46.94 dBm	-33.94 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55187 GHz	-42.49 dBm	-29.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42882 GHz	-40.98 dBm	-27.98 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83189 GHz	-38.59 dBm	-25.59 dB

Date: 28.DEC.2019 14:42:23

LTE Band 4 / 15MHz

Lowest Channel / QPSK

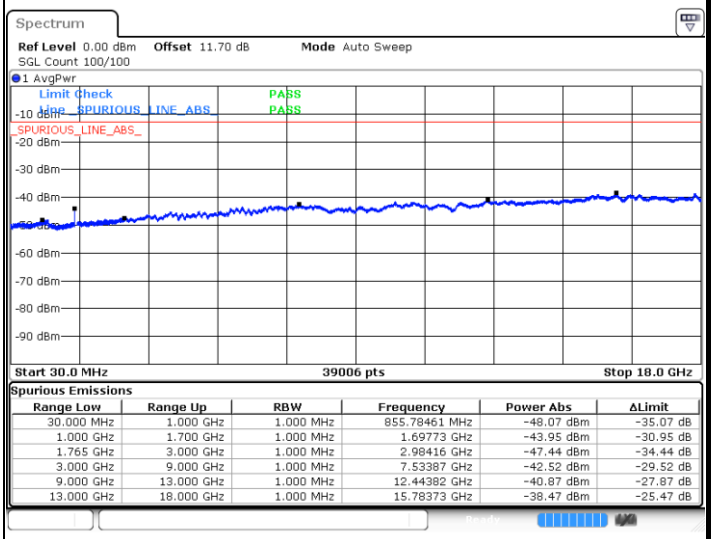


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.51674 MHz	-47.99 dBm	-34.99 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-43.78 dBm	-30.78 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98251 GHz	-47.39 dBm	-34.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54937 GHz	-42.52 dBm	-29.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43332 GHz	-40.85 dBm	-27.85 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84480 GHz	-38.54 dBm	-25.54 dB

Date: 28.DEC.2019 14:55:12

Lowest Channel / 16QAM

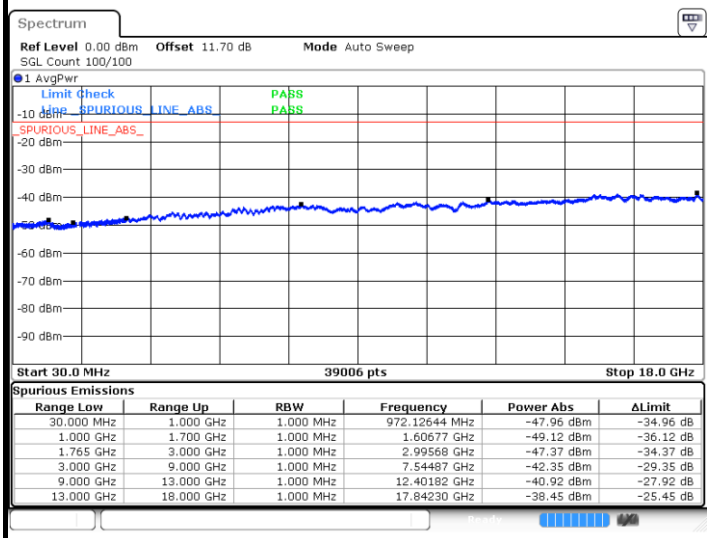


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	855.78461 MHz	-48.07 dBm	-35.07 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-43.95 dBm	-30.95 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98416 GHz	-47.44 dBm	-34.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53387 GHz	-42.52 dBm	-29.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44382 GHz	-40.87 dBm	-27.87 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.78373 GHz	-38.47 dBm	-25.47 dB

Date: 28.DEC.2019 14:55:53

Middle Channel / QPSK

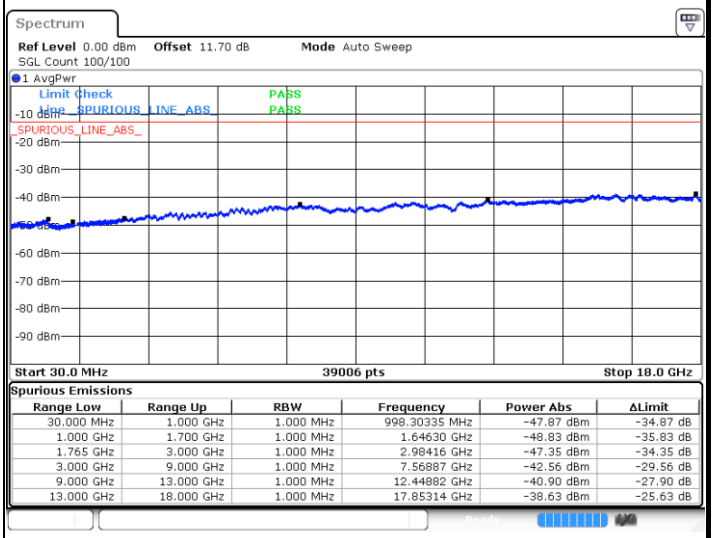


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	972.12644 MHz	-47.96 dBm	-34.96 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.60677 GHz	-49.12 dBm	-36.12 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99568 GHz	-47.37 dBm	-34.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54487 GHz	-42.35 dBm	-29.35 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40182 GHz	-40.92 dBm	-27.92 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84230 GHz	-38.45 dBm	-25.45 dB

Date: 28.DEC.2019 14:57:20

Middle Channel / 16QAM



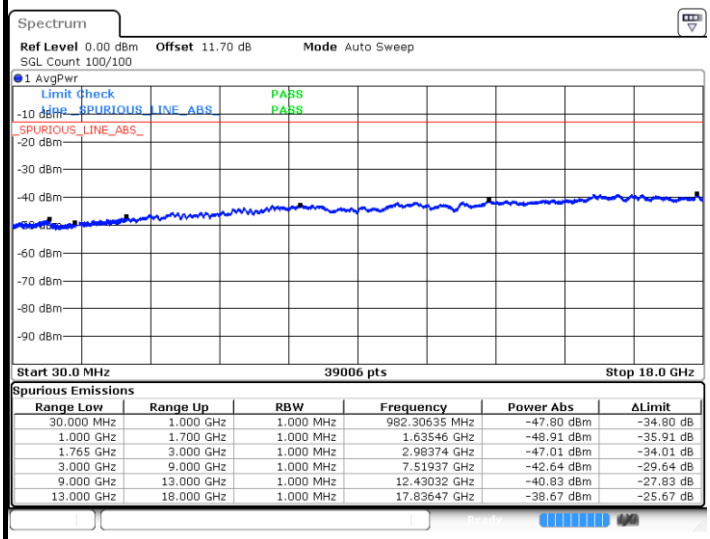
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.30335 MHz	-47.87 dBm	-34.87 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64630 GHz	-48.83 dBm	-35.83 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98416 GHz	-47.35 dBm	-34.35 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.56887 GHz	-42.56 dBm	-29.56 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44882 GHz	-40.90 dBm	-27.90 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85314 GHz	-38.63 dBm	-25.63 dB

Date: 28.DEC.2019 14:58:00

LTE Band 4 / 15MHz

Highest Channel / QPSK

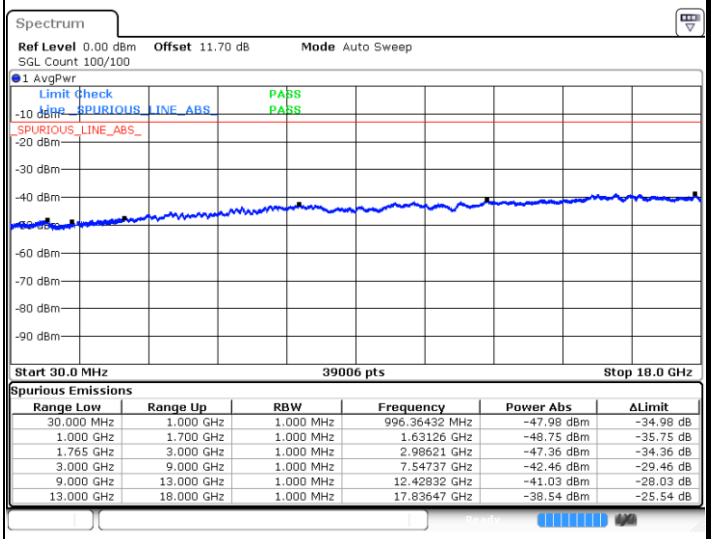


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.30635 MHz	-47.80 dBm	-34.80 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63546 GHz	-48.91 dBm	-35.91 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98374 GHz	-47.01 dBm	-34.01 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.51937 GHz	-42.64 dBm	-29.64 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43032 GHz	-40.83 dBm	-27.83 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83647 GHz	-38.67 dBm	-25.67 dB

Date: 28.DEC.2019 15:03:33

Highest Channel / 16QAM



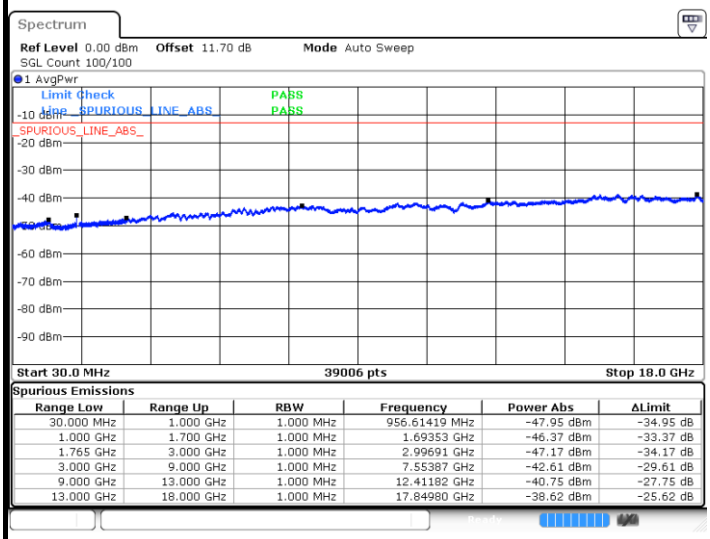
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-47.98 dBm	-34.98 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63126 GHz	-48.75 dBm	-35.75 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98621 GHz	-47.36 dBm	-34.36 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-42.46 dBm	-29.46 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42832 GHz	-41.03 dBm	-28.03 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83647 GHz	-38.54 dBm	-25.54 dB

Date: 28.DEC.2019 15:04:13

LTE Band 4 / 20MHz

Lowest Channel / QPSK

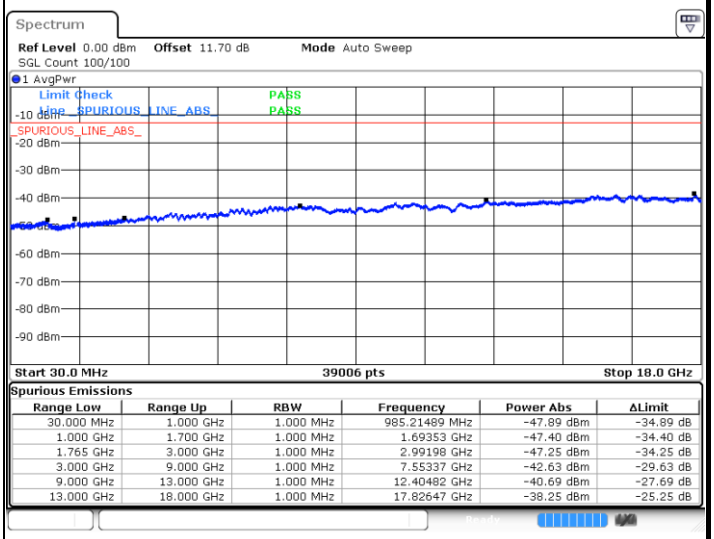


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	956.61419 MHz	-47.95 dBm	-34.95 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-46.37 dBm	-33.37 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99691 GHz	-47.17 dBm	-34.17 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55387 GHz	-42.61 dBm	-29.61 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41182 GHz	-40.75 dBm	-27.75 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84980 GHz	-38.62 dBm	-25.62 dB

Date: 28.DEC.2019 15:17:02

Lowest Channel / 16QAM



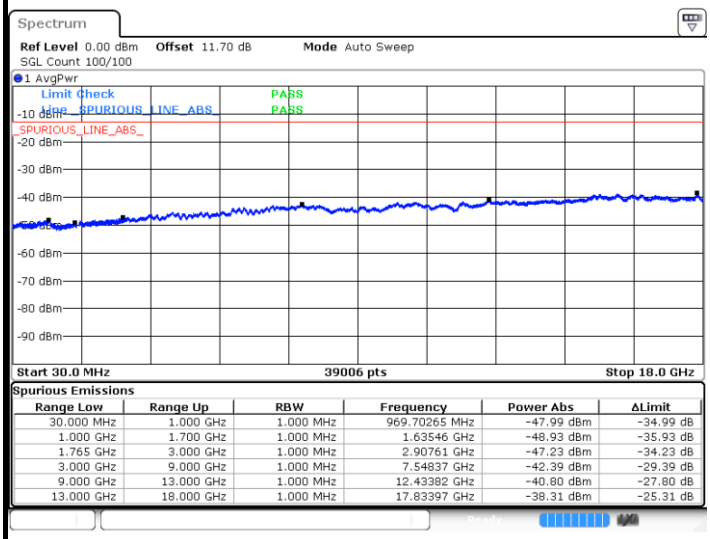
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.21489 MHz	-47.89 dBm	-34.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-47.40 dBm	-34.40 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99198 GHz	-47.25 dBm	-34.25 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55337 GHz	-42.63 dBm	-29.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40482 GHz	-40.69 dBm	-27.69 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82647 GHz	-38.25 dBm	-25.25 dB

Date: 28.DEC.2019 15:17:43

LTE Band 4 / 20MHz

Middle Channel / QPSK

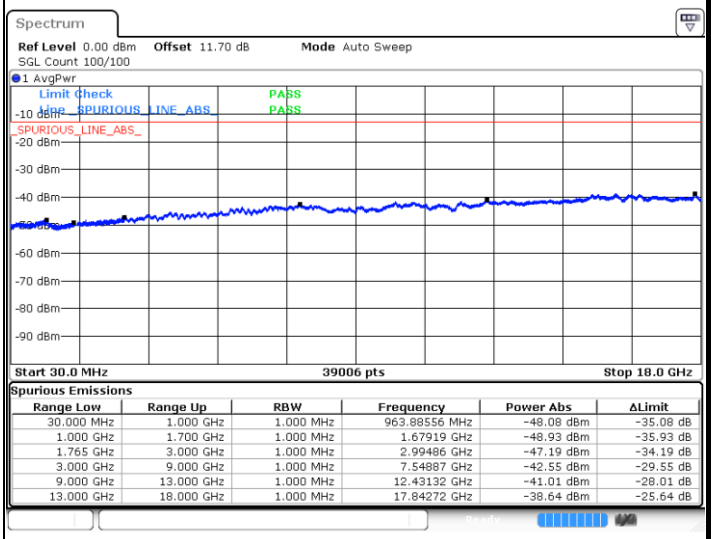


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-47.99 dBm	-34.99 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63546 GHz	-48.93 dBm	-35.93 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.90761 GHz	-47.23 dBm	-34.23 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54837 GHz	-42.39 dBm	-29.39 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43382 GHz	-40.80 dBm	-27.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83397 GHz	-38.31 dBm	-25.31 dB

Date: 28.DEC.2019 15:19:10

Middle Channel / 16QAM

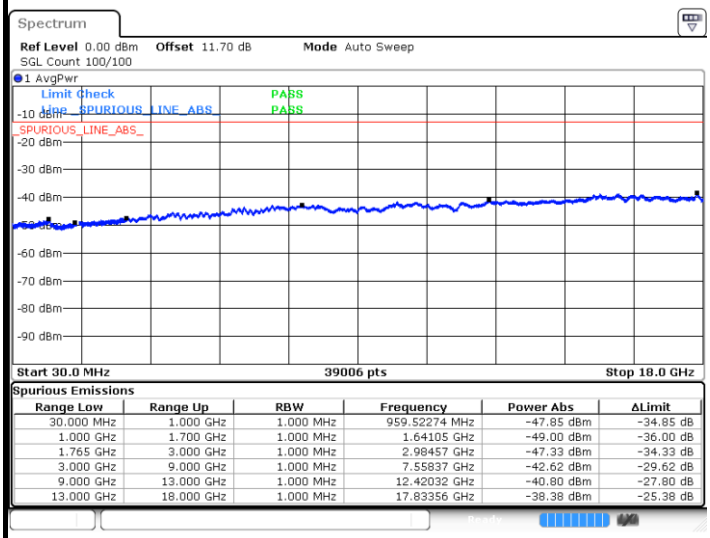


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	963.88556 MHz	-48.08 dBm	-35.08 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67919 GHz	-48.93 dBm	-35.93 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99486 GHz	-47.19 dBm	-34.19 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54887 GHz	-42.55 dBm	-29.55 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43132 GHz	-41.01 dBm	-28.01 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84272 GHz	-38.64 dBm	-25.64 dB

Date: 28.DEC.2019 15:19:50

Highest Channel / QPSK

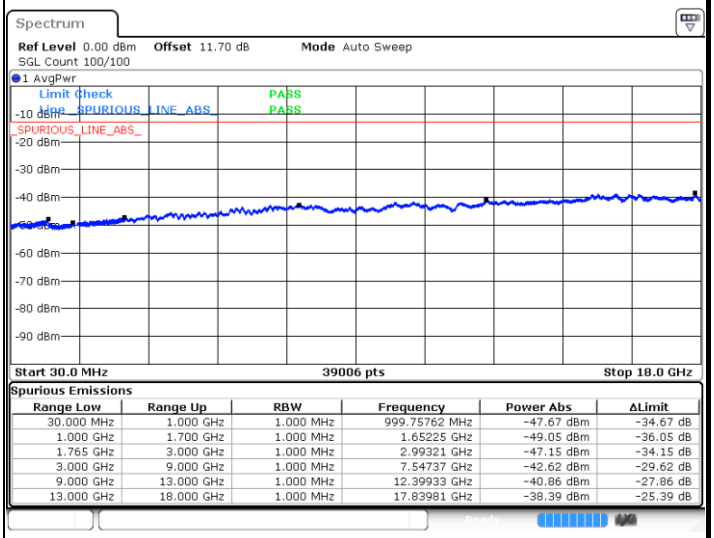


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	959.52274 MHz	-47.85 dBm	-34.85 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64105 GHz	-49.00 dBm	-36.00 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98457 GHz	-47.33 dBm	-34.33 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55837 GHz	-42.62 dBm	-29.62 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42032 GHz	-40.80 dBm	-27.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83356 GHz	-38.38 dBm	-25.38 dB

Date: 28.DEC.2019 15:25:22

Highest Channel / 16QAM



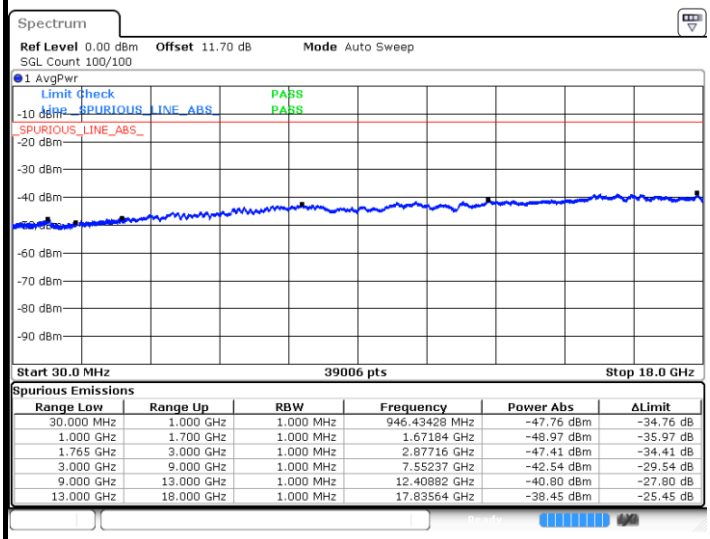
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	999.75762 MHz	-47.67 dBm	-34.67 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65225 GHz	-49.05 dBm	-36.05 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99321 GHz	-47.15 dBm	-34.15 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-42.62 dBm	-29.62 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39933 GHz	-40.86 dBm	-27.86 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83981 GHz	-38.39 dBm	-25.39 dB

Date: 28.DEC.2019 15:26:03

LTE Band 4 / 1.4MHz

Lowest Channel / 64QAM

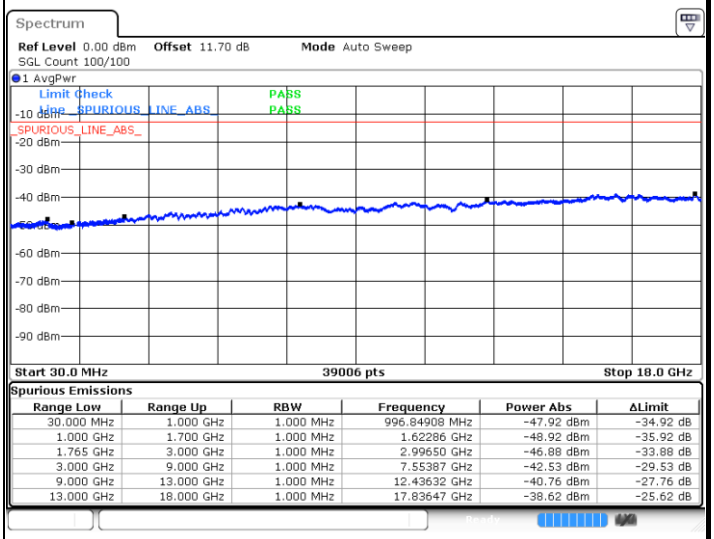


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.43428 MHz	-47.76 dBm	-34.76 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67184 GHz	-48.97 dBm	-35.97 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.87716 GHz	-47.41 dBm	-34.41 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-42.54 dBm	-29.54 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40882 GHz	-40.80 dBm	-27.80 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83564 GHz	-38.45 dBm	-25.45 dB

Date: 28.DEC.2019 13:37:50

Middle Channel / 64QAM

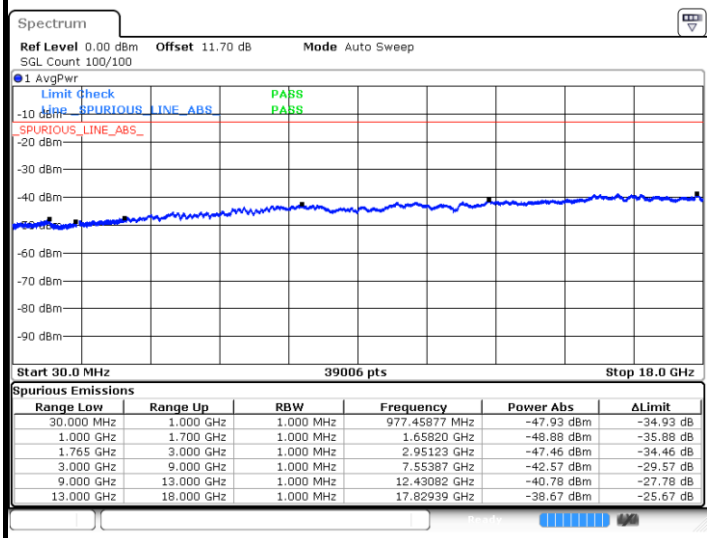


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-47.92 dBm	-34.92 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62286 GHz	-48.92 dBm	-35.92 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99650 GHz	-46.88 dBm	-33.88 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55387 GHz	-42.53 dBm	-29.53 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43632 GHz	-40.76 dBm	-27.76 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83647 GHz	-38.62 dBm	-25.62 dB

Date: 28.DEC.2019 13:40:57

Highest Channel / 64QAM



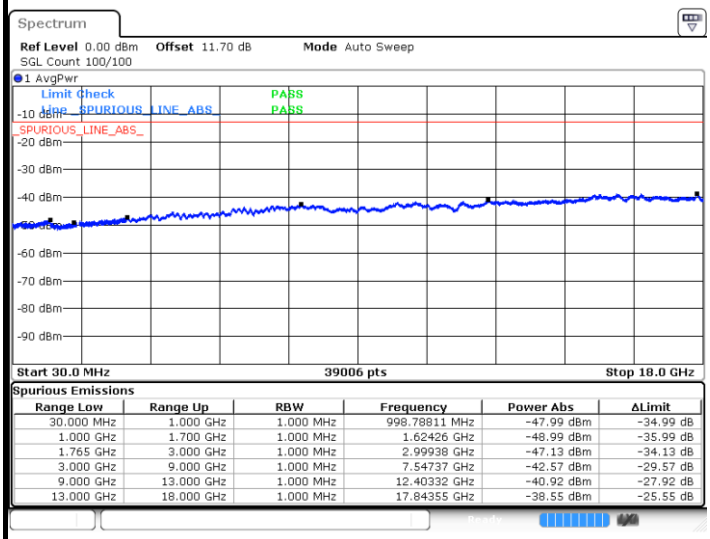
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.45877 MHz	-47.93 dBm	-34.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65820 GHz	-48.88 dBm	-35.88 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.95123 GHz	-47.46 dBm	-34.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55387 GHz	-42.57 dBm	-29.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43082 GHz	-40.78 dBm	-27.78 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82939 GHz	-38.67 dBm	-25.67 dB

Date: 28.DEC.2019 13:44:09

LTE Band 4 / 3MHz

Lowest Channel / 64QAM

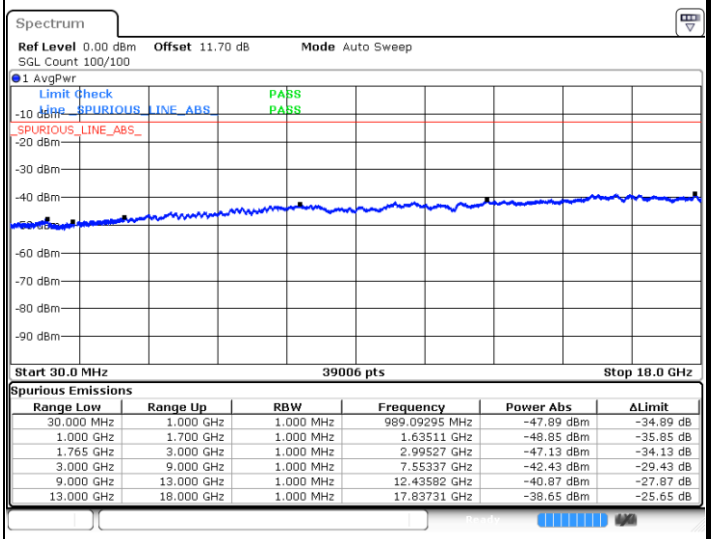


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	998.78811 MHz	-47.99 dBm	-34.99 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62426 GHz	-48.99 dBm	-35.99 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99938 GHz	-47.13 dBm	-34.13 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-42.57 dBm	-29.57 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40332 GHz	-40.92 dBm	-27.92 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84355 GHz	-38.55 dBm	-25.55 dB

Date: 28.DEC.2019 14:01:49

Middle Channel / 64QAM

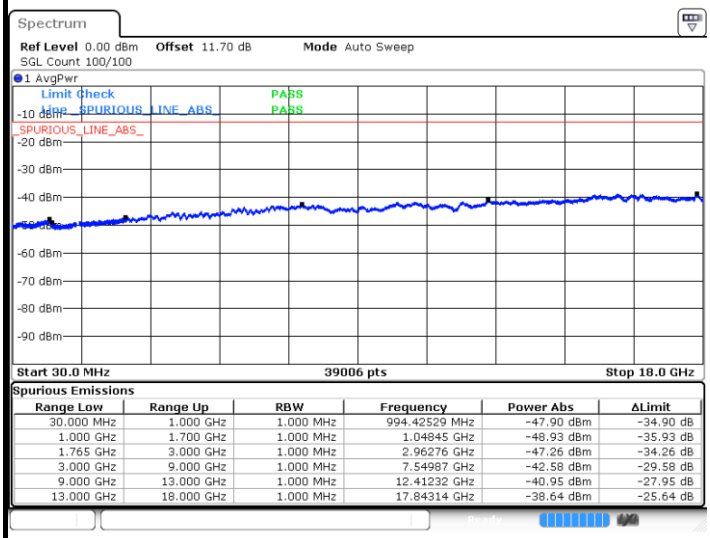


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.09295 MHz	-47.89 dBm	-34.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63511 GHz	-48.85 dBm	-35.85 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99527 GHz	-47.13 dBm	-34.13 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55337 GHz	-42.43 dBm	-29.43 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43582 GHz	-40.87 dBm	-27.87 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83731 GHz	-38.65 dBm	-25.65 dB

Date: 28.DEC.2019 14:02:53

Highest Channel / 64QAM



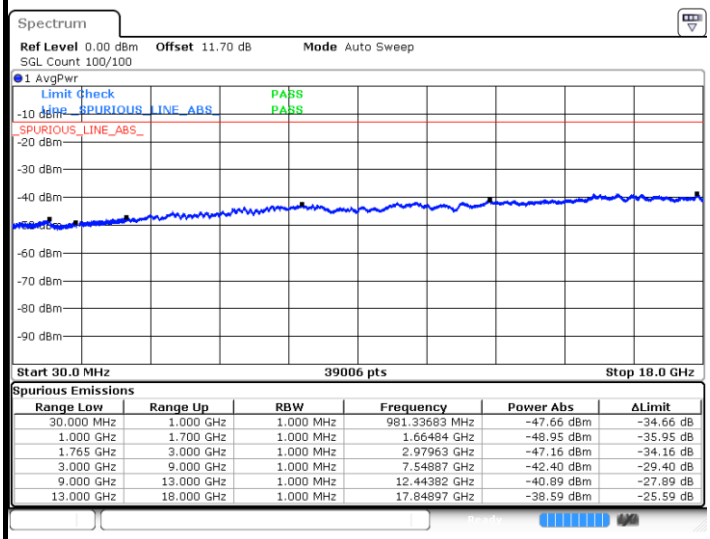
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-47.90 dBm	-34.90 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.04845 GHz	-48.93 dBm	-35.93 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96276 GHz	-47.26 dBm	-34.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54987 GHz	-42.58 dBm	-29.58 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41232 GHz	-40.95 dBm	-27.95 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84314 GHz	-38.64 dBm	-25.64 dB

Date: 28.DEC.2019 14:05:59

LTE Band 4 / 5MHz

Lowest Channel / 64QAM

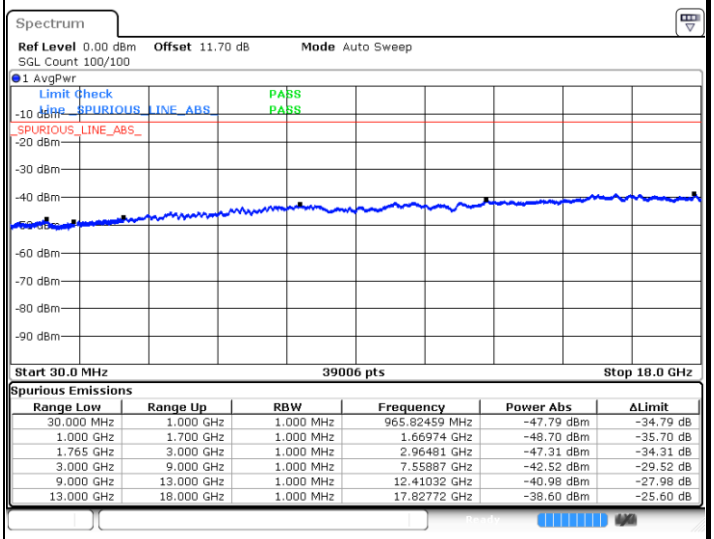


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	981.33683 MHz	-47.66 dBm	-34.66 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66484 GHz	-48.95 dBm	-35.95 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97963 GHz	-47.16 dBm	-34.16 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54887 GHz	-42.40 dBm	-29.40 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44382 GHz	-40.89 dBm	-27.89 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84897 GHz	-38.59 dBm	-25.59 dB

Date: 28.DEC.2019 14:09:06

Middle Channel / 64QAM

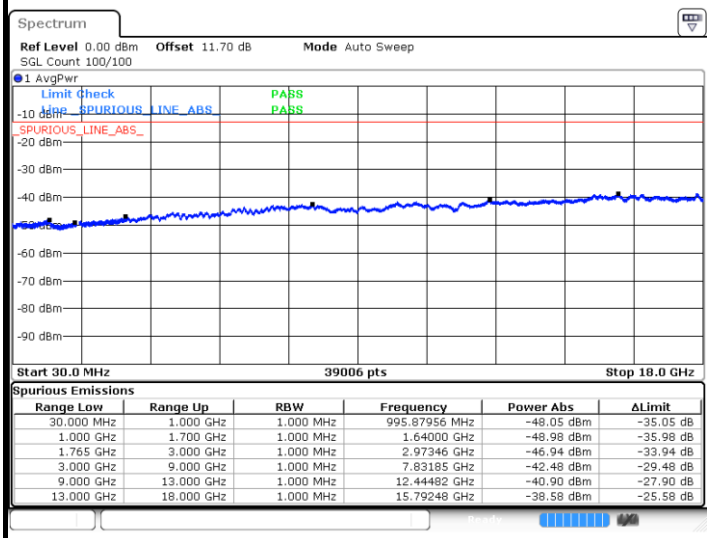


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	965.82459 MHz	-47.79 dBm	-34.79 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66974 GHz	-48.70 dBm	-35.70 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96481 GHz	-47.31 dBm	-34.31 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55887 GHz	-42.52 dBm	-29.52 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41032 GHz	-40.98 dBm	-27.98 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82772 GHz	-38.60 dBm	-25.60 dB

Date: 28.DEC.2019 14:10:09

Highest Channel / 64QAM



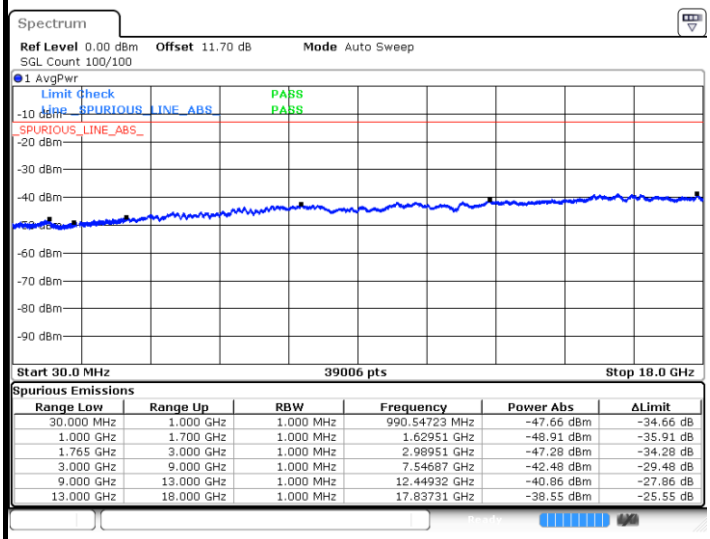
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.87956 MHz	-48.05 dBm	-35.05 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64000 GHz	-48.98 dBm	-35.98 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97346 GHz	-46.94 dBm	-33.94 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.83185 GHz	-42.48 dBm	-29.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44482 GHz	-40.90 dBm	-27.90 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.79248 GHz	-38.58 dBm	-25.58 dB

Date: 28.DEC.2019 14:13:16

LTE Band 4 / 10MHz

Lowest Channel / 64QAM

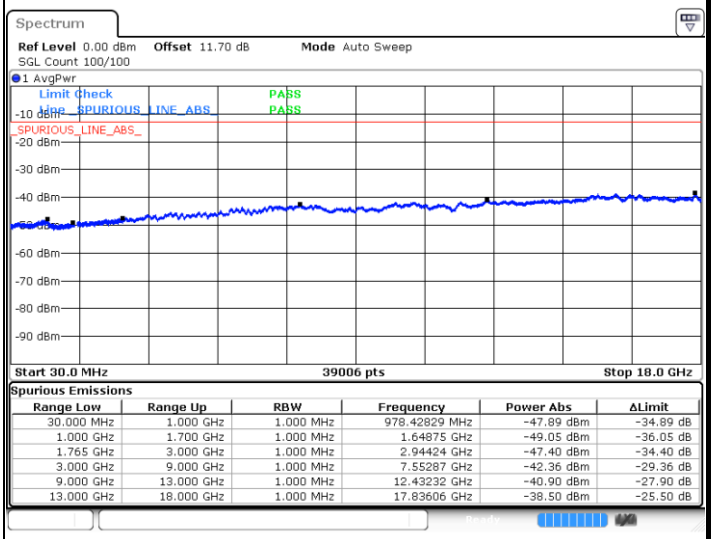


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-47.66 dBm	-34.66 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62951 GHz	-48.91 dBm	-35.91 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98951 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54687 GHz	-42.48 dBm	-29.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44932 GHz	-40.86 dBm	-27.86 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83731 GHz	-38.55 dBm	-25.55 dB

Date: 28.DEC.2019 14:45:29

Middle Channel / 64QAM

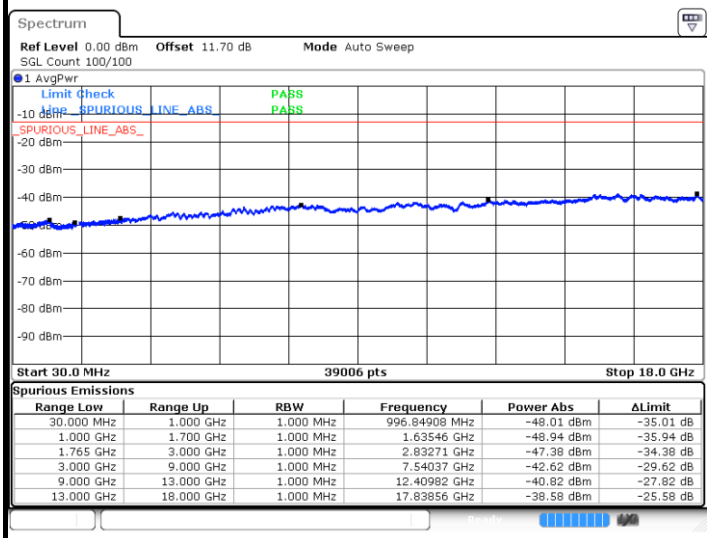


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-47.89 dBm	-34.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64875 GHz	-49.05 dBm	-36.05 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.94424 GHz	-47.40 dBm	-34.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55287 GHz	-42.36 dBm	-29.36 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43232 GHz	-40.90 dBm	-27.90 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83606 GHz	-38.50 dBm	-25.50 dB

Date: 28.DEC.2019 14:46:33

Highest Channel / 64QAM



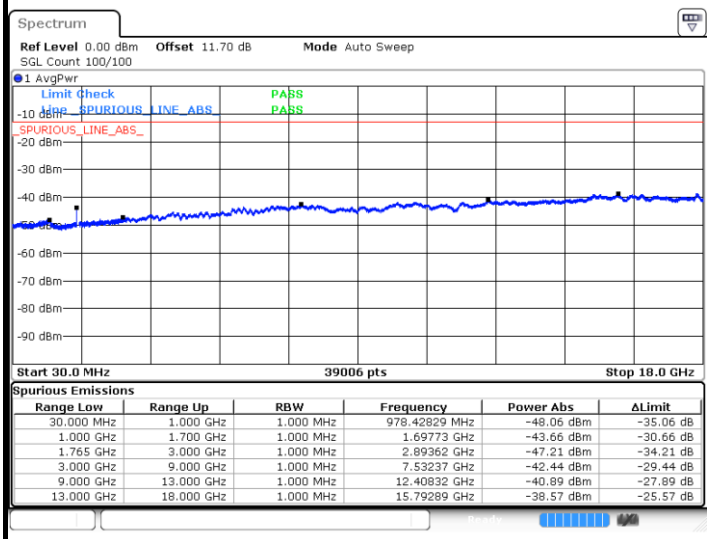
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-48.01 dBm	-35.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63546 GHz	-48.94 dBm	-35.94 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.83271 GHz	-47.38 dBm	-34.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54037 GHz	-42.62 dBm	-29.62 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40982 GHz	-40.82 dBm	-27.82 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83856 GHz	-38.58 dBm	-25.58 dB

Date: 28.DEC.2019 14:49:39

LTE Band 4 / 15MHz

Lowest Channel / 64QAM

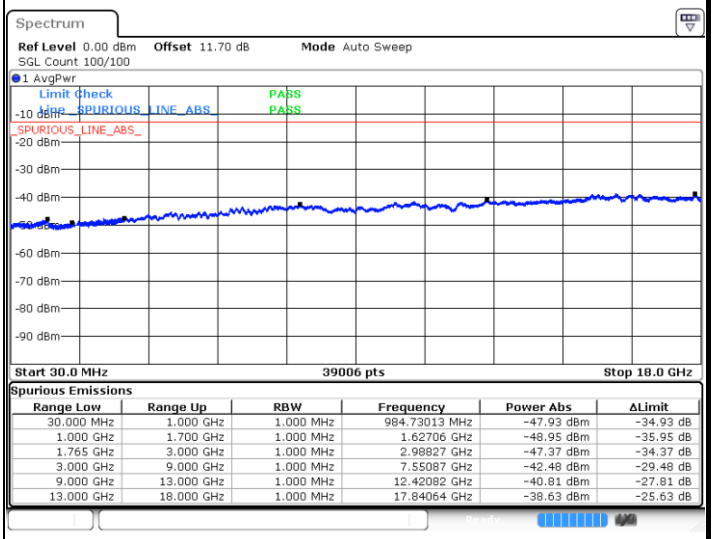


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-48.06 dBm	-35.06 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-43.66 dBm	-30.66 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.89362 GHz	-47.21 dBm	-34.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53237 GHz	-42.44 dBm	-29.44 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40832 GHz	-40.89 dBm	-27.89 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.79289 GHz	-38.57 dBm	-25.57 dB

Date: 28.DEC.2019 15:07:20

Middle Channel / 64QAM

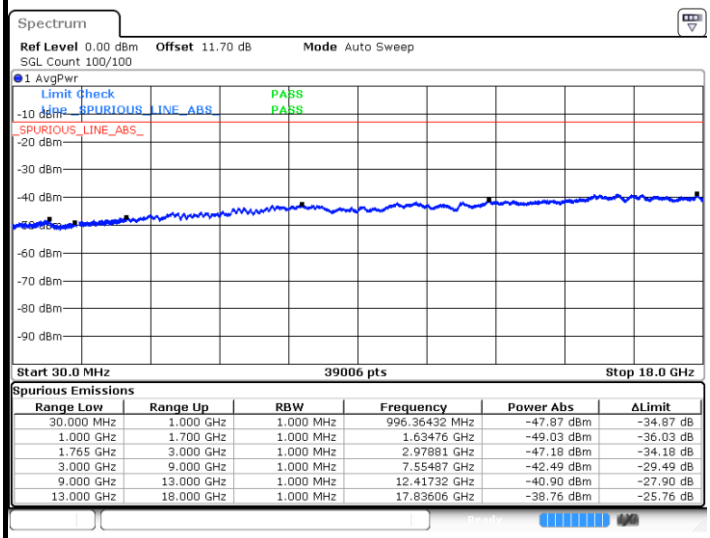


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.73013 MHz	-47.93 dBm	-34.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62706 GHz	-48.95 dBm	-35.95 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98827 GHz	-47.37 dBm	-34.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55087 GHz	-42.48 dBm	-29.48 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42082 GHz	-40.81 dBm	-27.81 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84064 GHz	-38.63 dBm	-25.63 dB

Date: 28.DEC.2019 15:08:23

Highest Channel / 64QAM



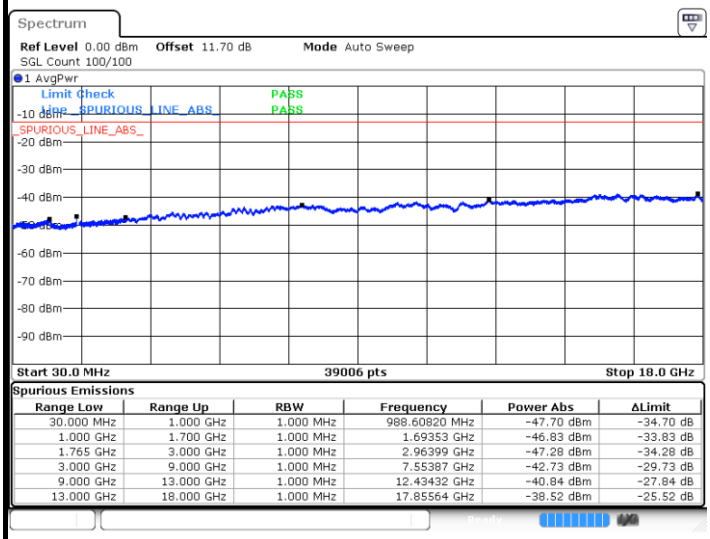
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-47.87 dBm	-34.87 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63476 GHz	-49.03 dBm	-36.03 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97881 GHz	-47.18 dBm	-34.18 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55487 GHz	-42.49 dBm	-29.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41732 GHz	-40.90 dBm	-27.90 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83606 GHz	-38.76 dBm	-25.76 dB

Date: 28.DEC.2019 15:11:29

LTE Band 4 / 20MHz

Lowest Channel / 64QAM

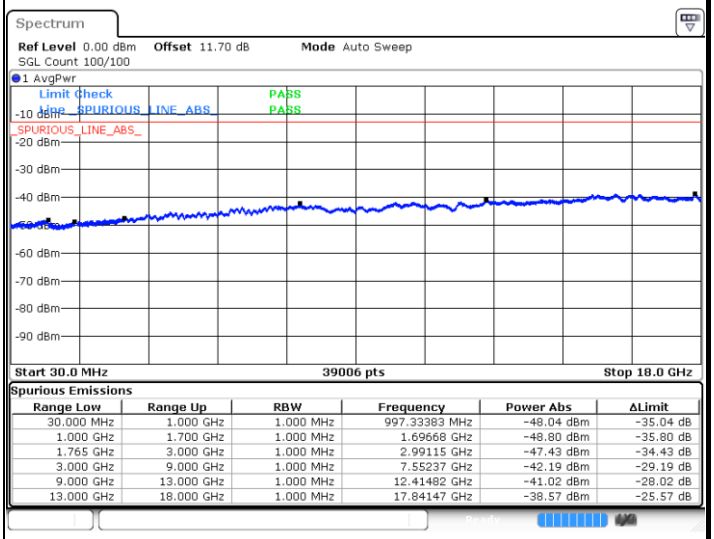


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.60820 MHz	-47.70 dBm	-34.70 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69353 GHz	-46.83 dBm	-33.83 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96399 GHz	-47.28 dBm	-34.28 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55387 GHz	-42.73 dBm	-29.73 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43432 GHz	-40.84 dBm	-27.84 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85564 GHz	-38.52 dBm	-25.52 dB

Date: 28.DEC.2019 15:29:09

Middle Channel / 64QAM

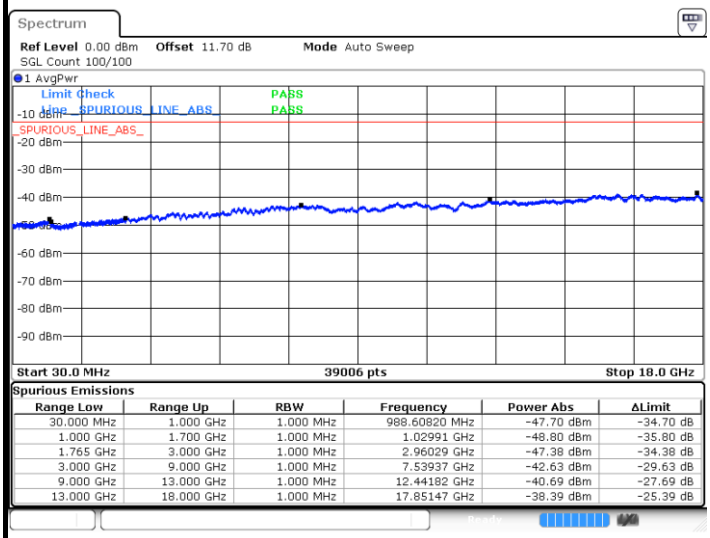


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.33383 MHz	-48.04 dBm	-35.04 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69668 GHz	-48.80 dBm	-35.80 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99115 GHz	-47.43 dBm	-34.43 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-42.19 dBm	-29.19 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41482 GHz	-41.02 dBm	-28.02 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84147 GHz	-38.57 dBm	-25.57 dB

Date: 28.DEC.2019 15:30:13

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	988.60820 MHz	-47.70 dBm	-34.70 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.02991 GHz	-48.80 dBm	-35.80 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96029 GHz	-47.38 dBm	-34.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53937 GHz	-42.63 dBm	-29.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44182 GHz	-40.69 dBm	-27.69 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85147 GHz	-38.39 dBm	-25.39 dB

Date: 28.DEC.2019 15:33:19

Frequency Stability

Test Conditions		LTE Band 4 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0052	
30	Normal Voltage	0.0028	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0046	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0045	
-30	Normal Voltage	0.0031	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.85 V.；Battery End Point (BEP) =3.65 V.；Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

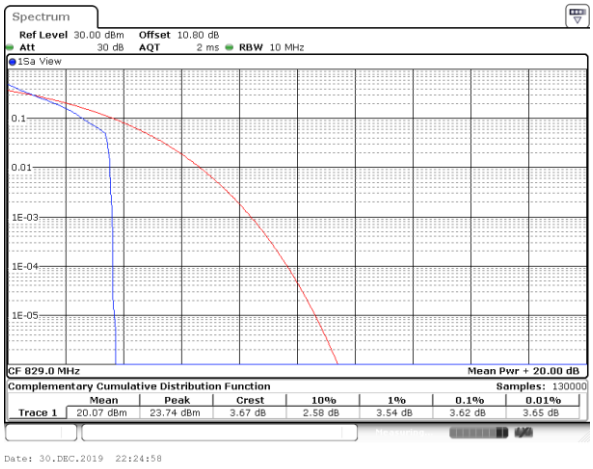
LTE Band 5

Peak-to-Average Ratio

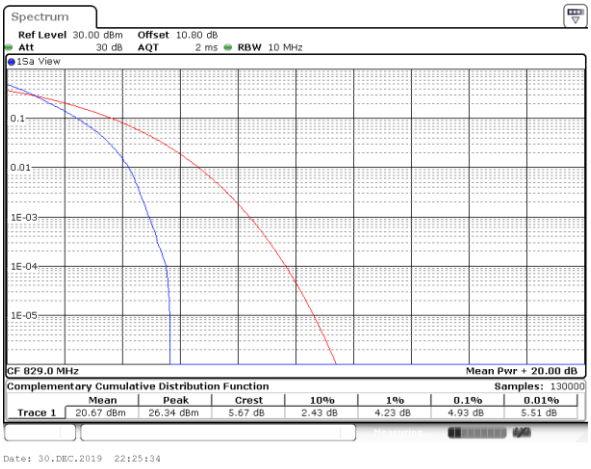
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.93	5.57	5.80	PASS
Middle CH	3.62	5.13	5.19	5.88	
Highest CH	3.65	4.87	5.33	5.80	
Mode	LTE Band 5 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.75	6.43	-	-	PASS
Middle CH	7.28	6.38	-	-	
Highest CH	6.46	6.32	-	-	

LTE Band 5 / 10MHz / QPSK

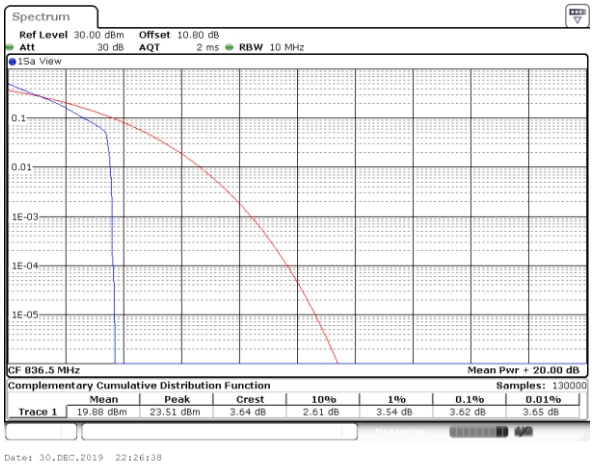
Lowest Channel / 1RB



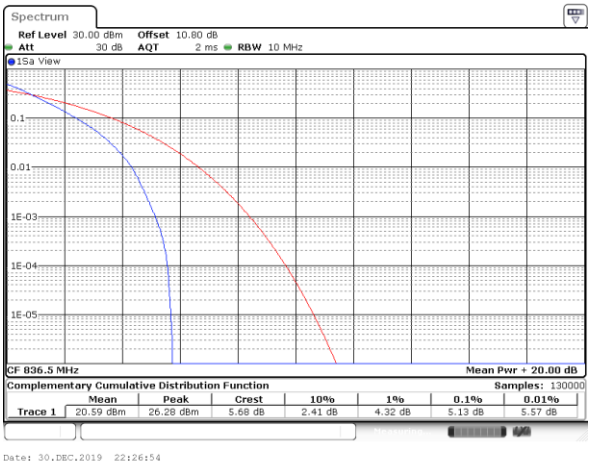
Lowest Channel / Full RB



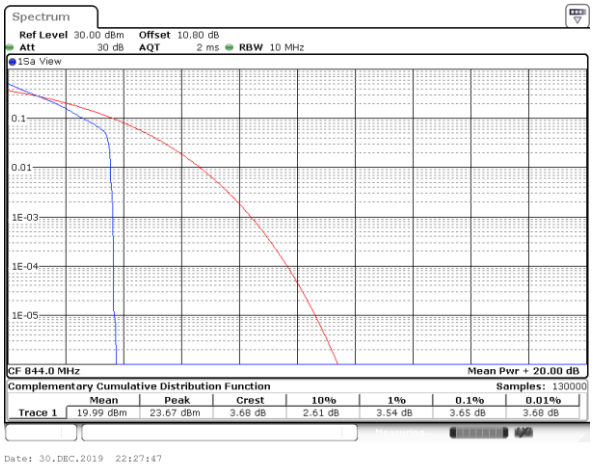
Middle Channel / 1RB



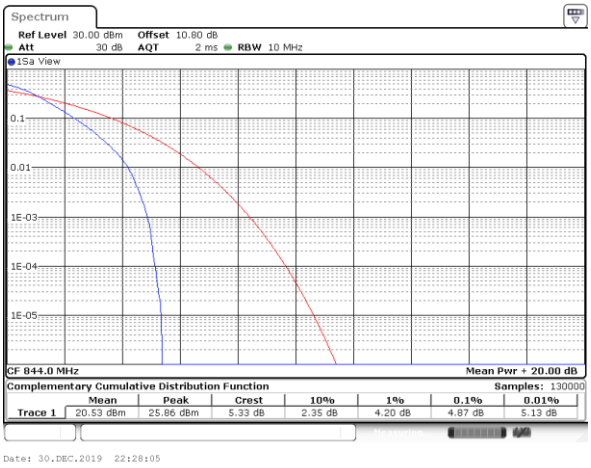
Middle Channel / Full RB



Highest Channel / 1RB

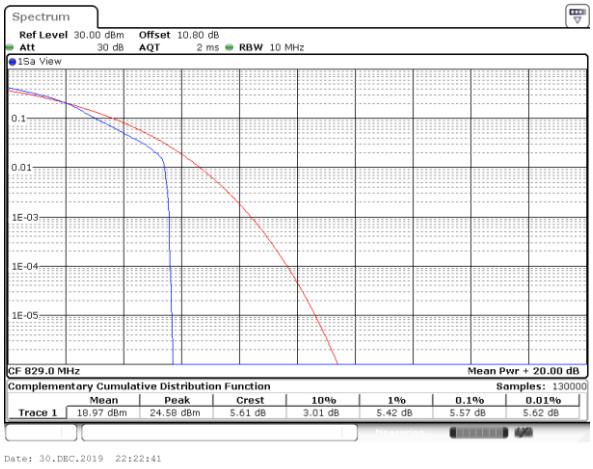


Highest Channel / Full RB

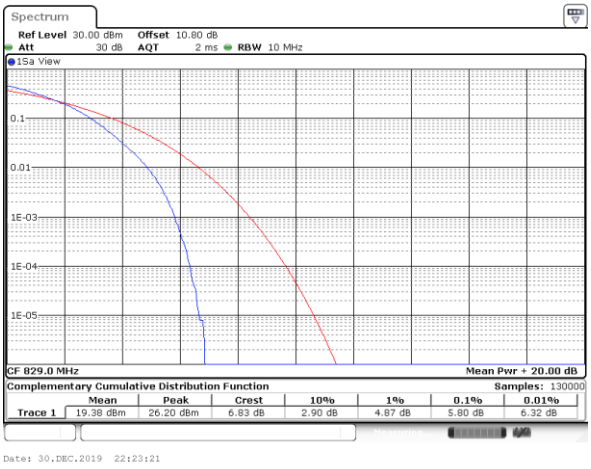


LTE Band 5 / 10MHz / 16QAM

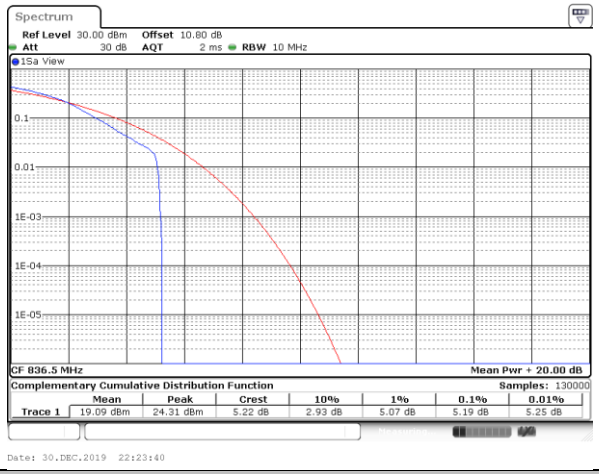
Lowest Channel / 1RB



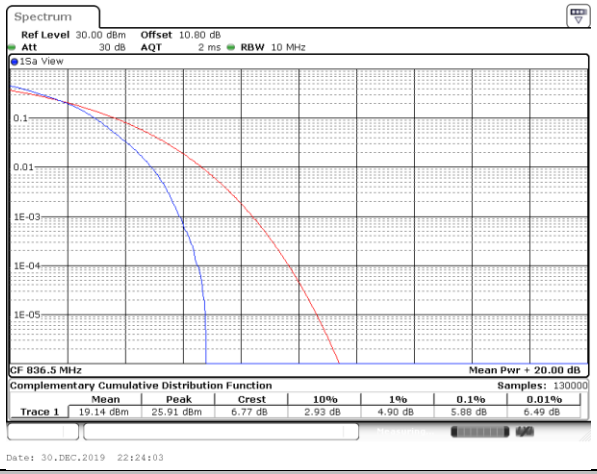
Lowest Channel / Full RB



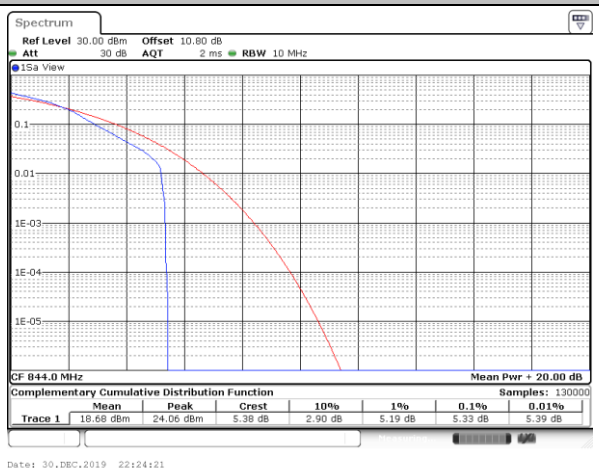
Middle Channel / 1RB



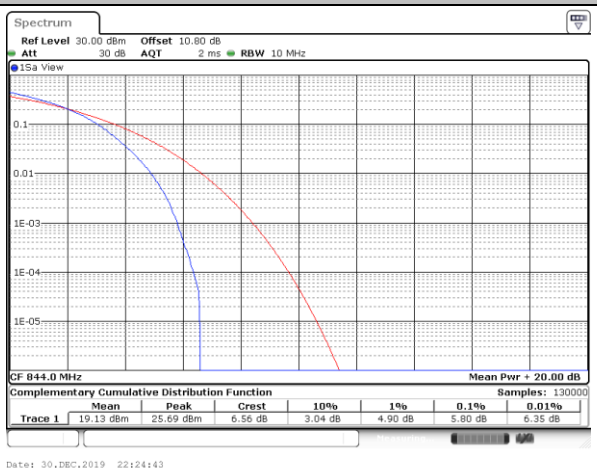
Middle Channel / Full RB



Highest Channel / 1RB

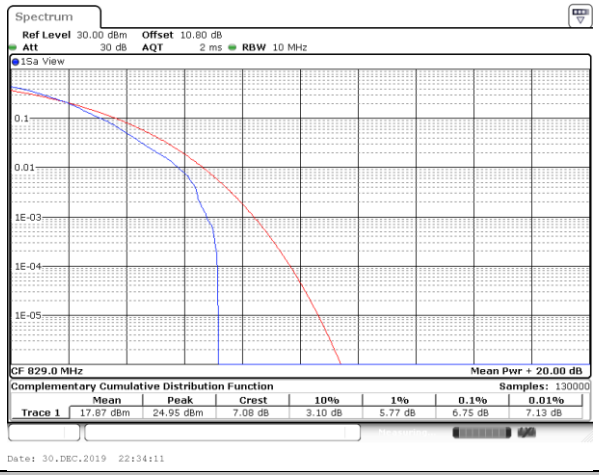


Highest Channel / Full RB

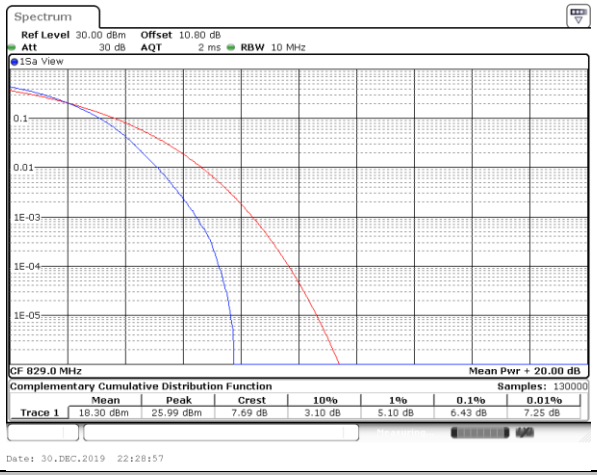


LTE Band 5 / 10MHz / 64QAM

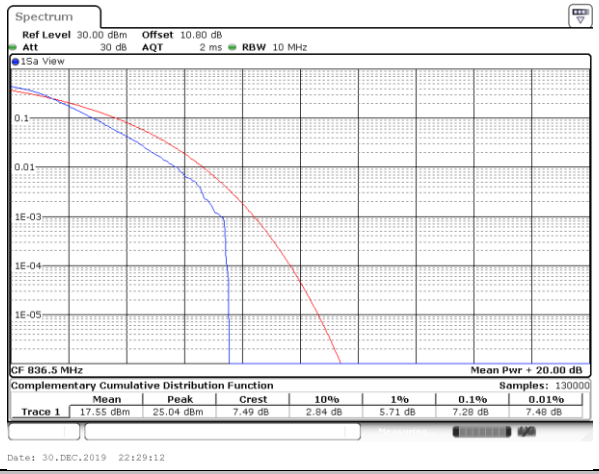
Lowest Channel / 1RB



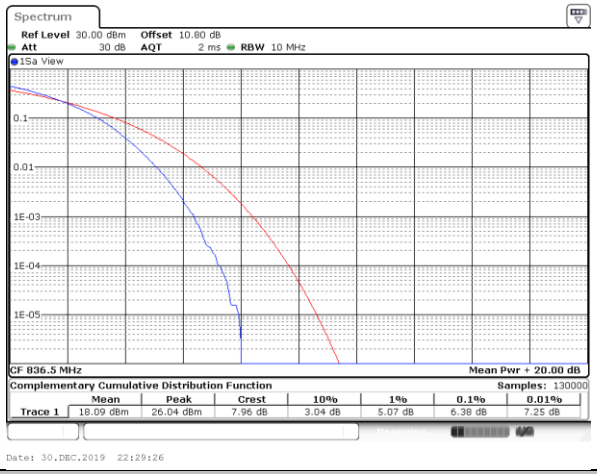
Lowest Channel / Full RB



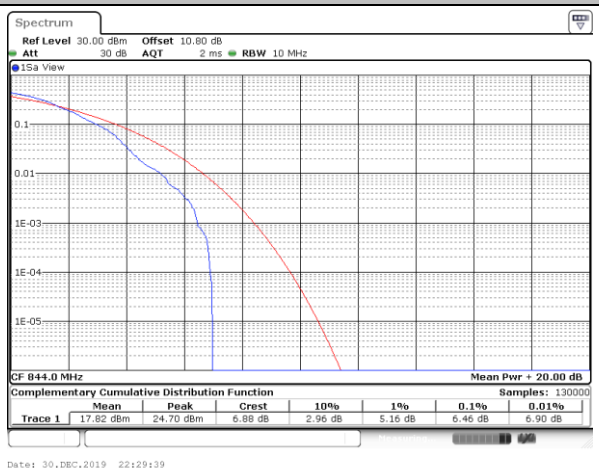
Middle Channel / 1RB



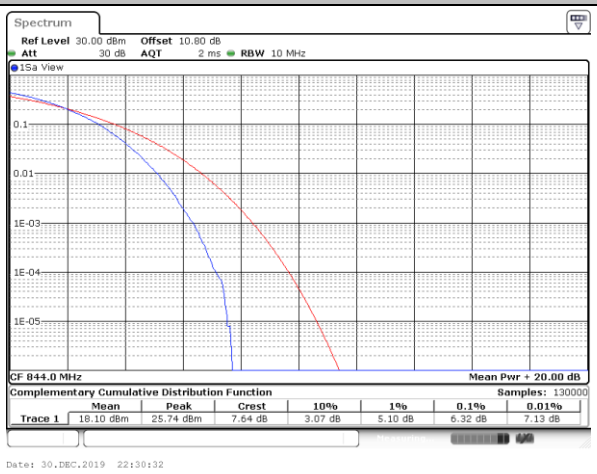
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

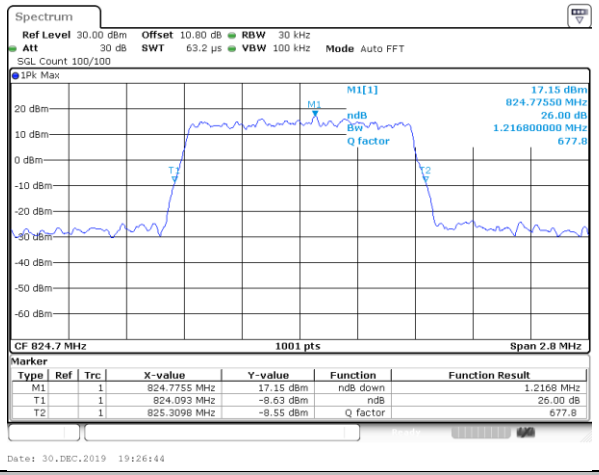


26dB Bandwidth

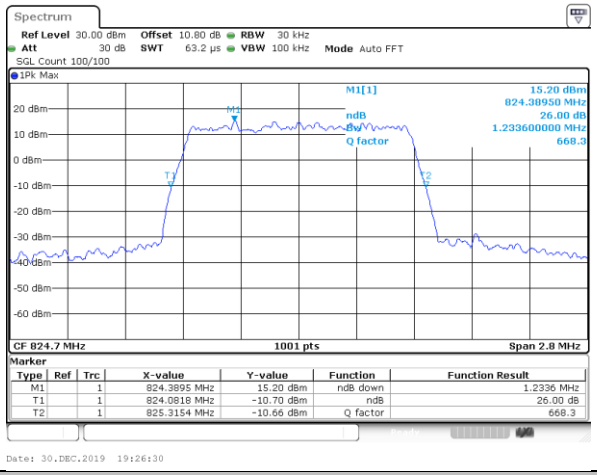
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.22	1.23	3.03	3.06	4.97	4.95	9.69	9.67	-	-	-	-
Middle CH	1.23	1.21	3.03	3.02	4.94	4.86	9.79	9.81	-	-	-	-
Highest CH	1.22	1.23	3.01	3.02	4.88	4.95	9.65	9.75	-	-	-	-
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.22	-	3.03	-	4.85	-	9.83	-	-	-	-	-
Middle CH	1.22	-	2.99	-	4.90	-	9.81	-	-	-	-	-
Highest CH	1.24	-	2.99	-	4.84	-	9.73	-	-	-	-	-

LTE Band 5

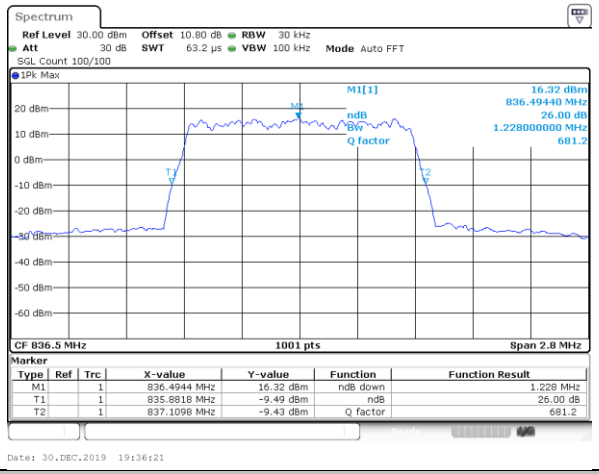
Lowest Channel / 1.4MHz / QPSK



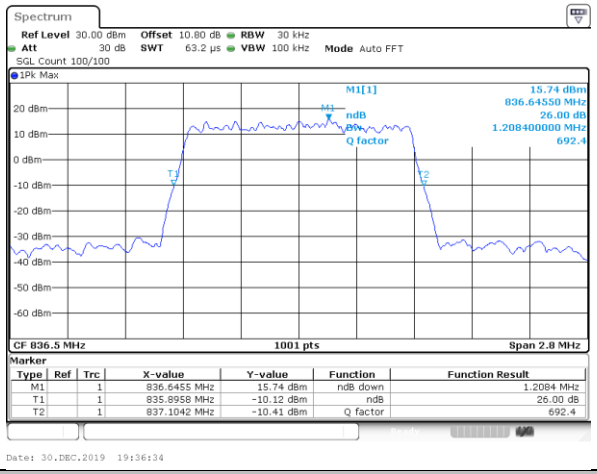
Lowest Channel / 1.4MHz / 16QAM



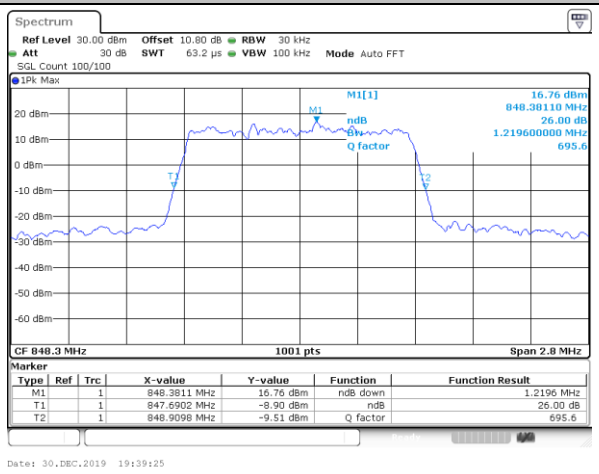
Middle Channel / 1.4MHz / QPSK



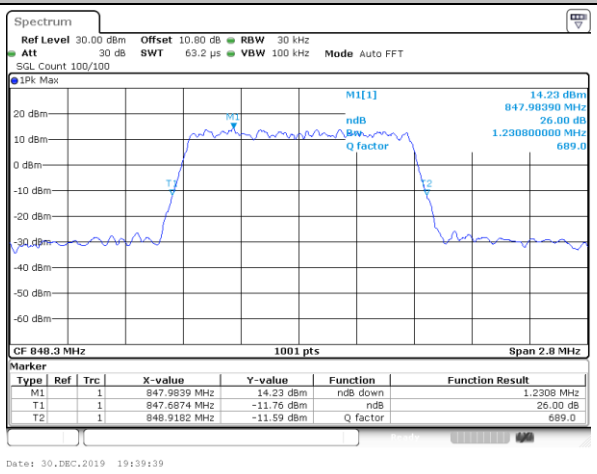
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

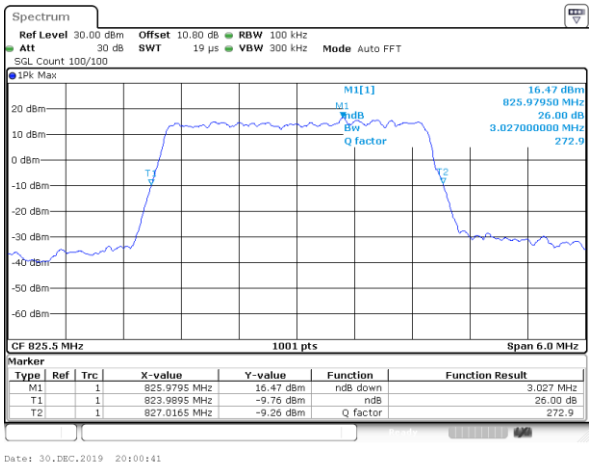


Highest Channel / 1.4MHz / 16QAM

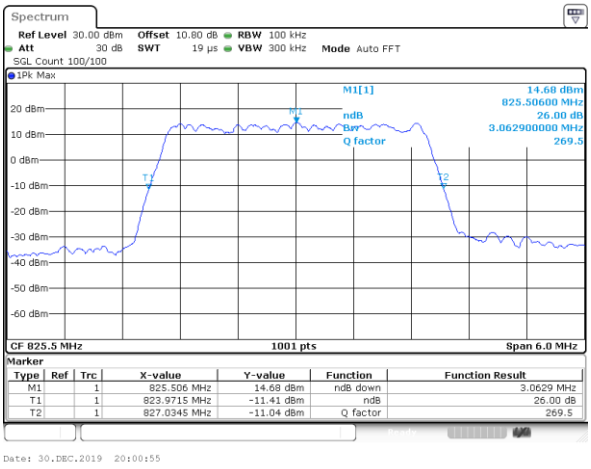


LTE Band 5

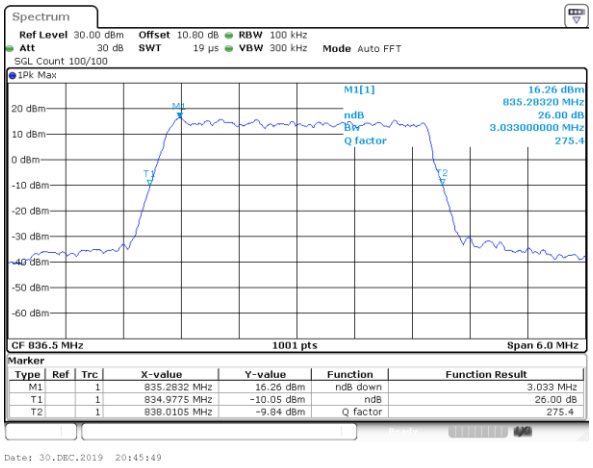
Lowest Channel / 3MHz / QPSK



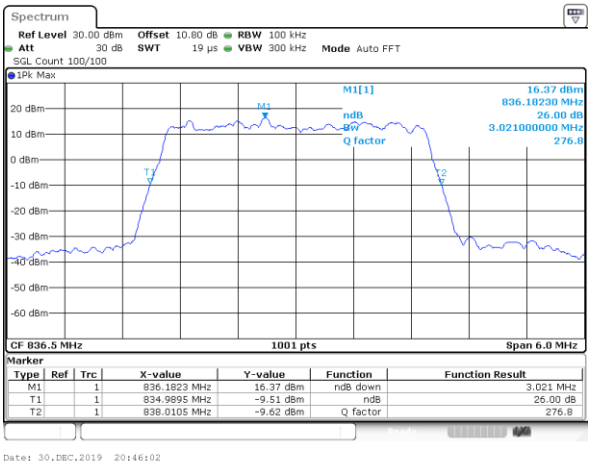
Lowest Channel / 3MHz / 16QAM



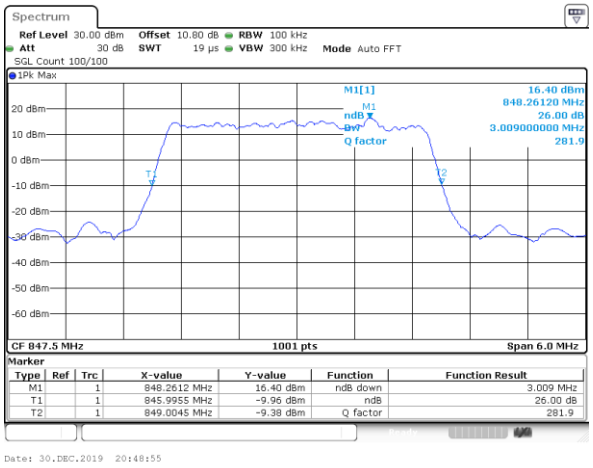
Middle Channel / 3MHz / QPSK



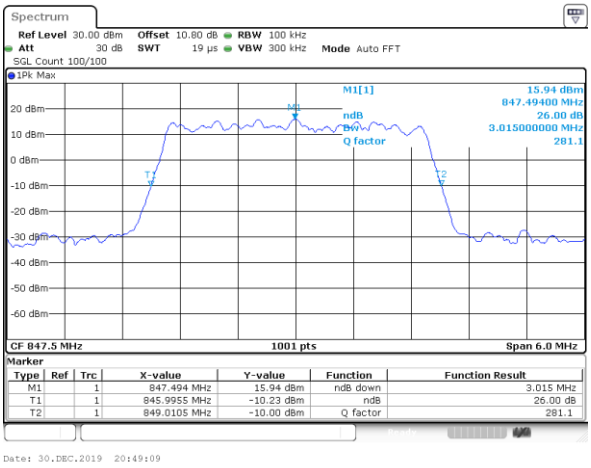
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

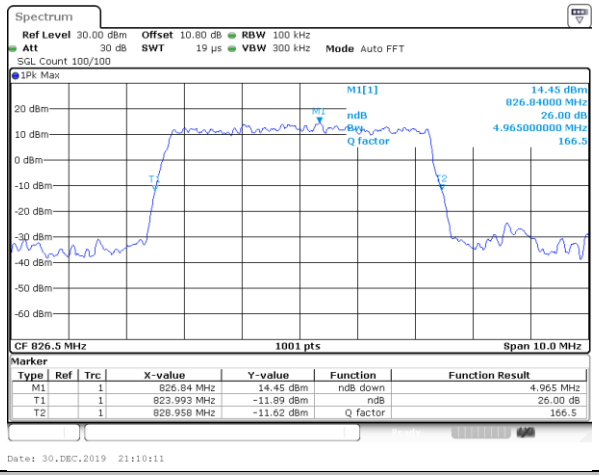


Highest Channel / 3MHz / 16QAM

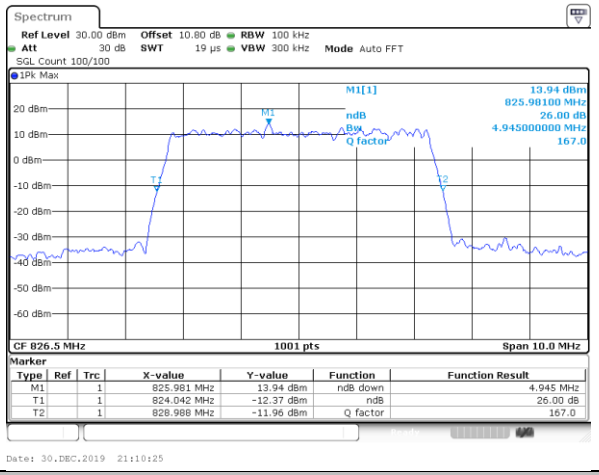


LTE Band 5

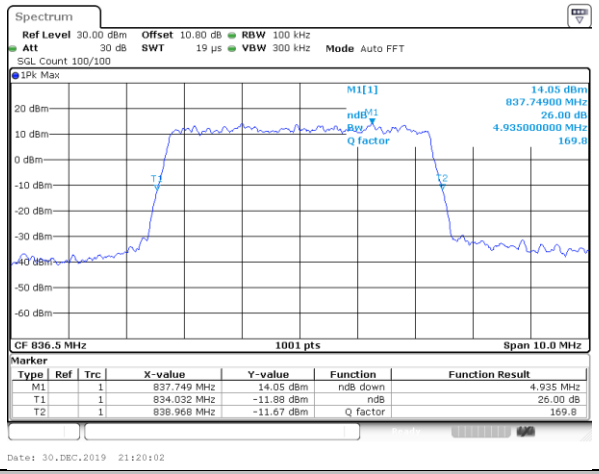
Lowest Channel / 5MHz / QPSK



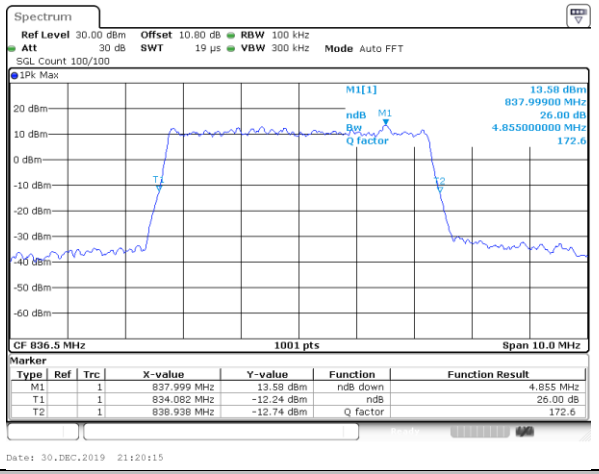
Lowest Channel / 5MHz / 16QAM



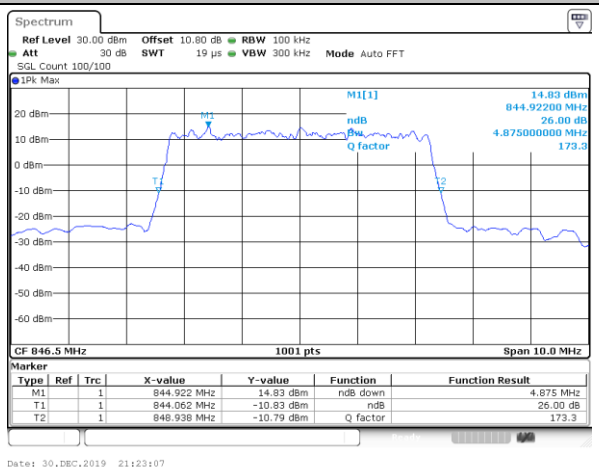
Middle Channel / 5MHz / QPSK



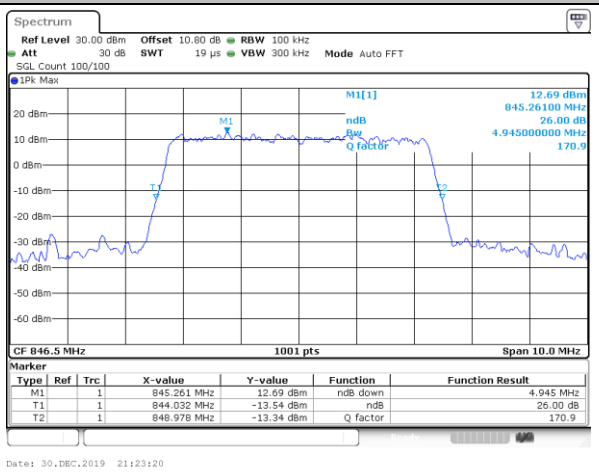
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

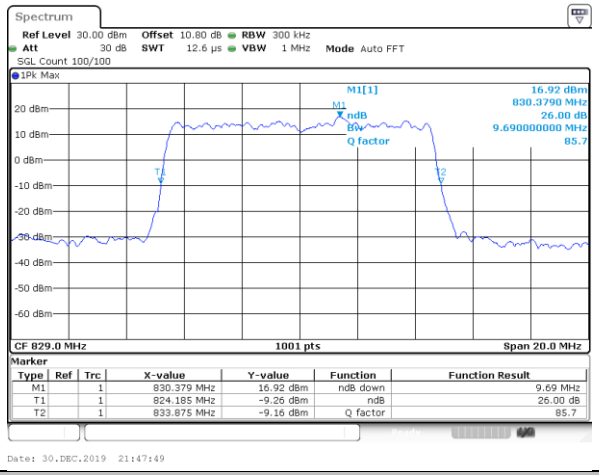


Highest Channel / 5MHz / 16QAM

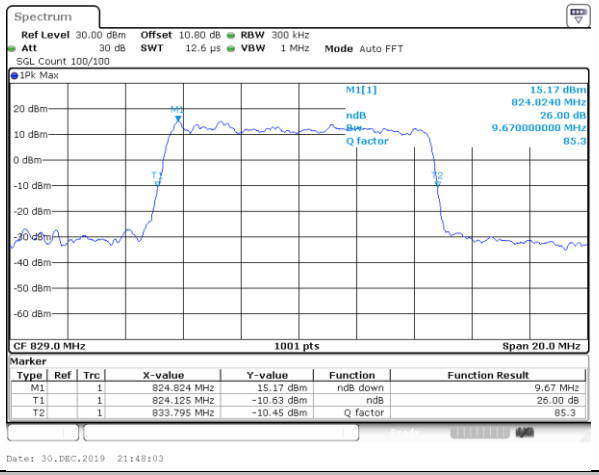


LTE Band 5

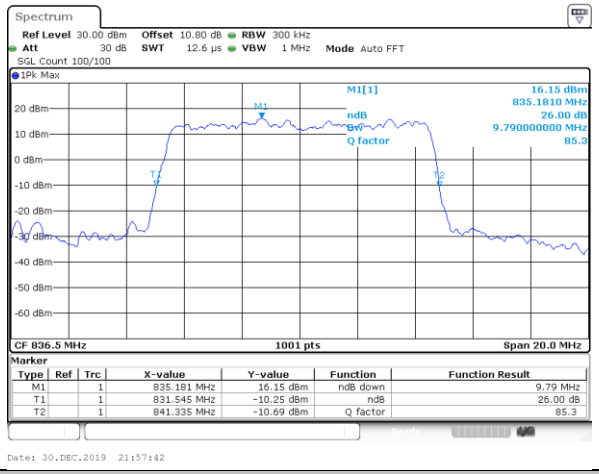
Lowest Channel / 10MHz / QPSK



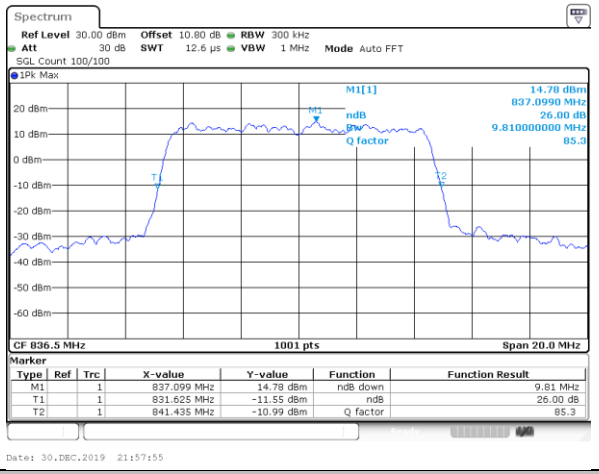
Lowest Channel / 10MHz / 16QAM



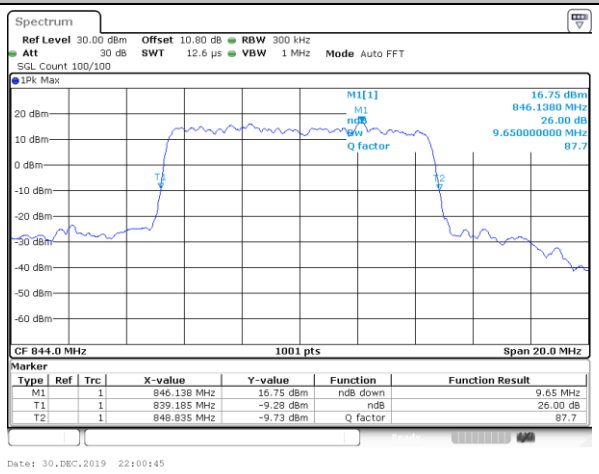
Middle Channel / 10MHz / QPSK



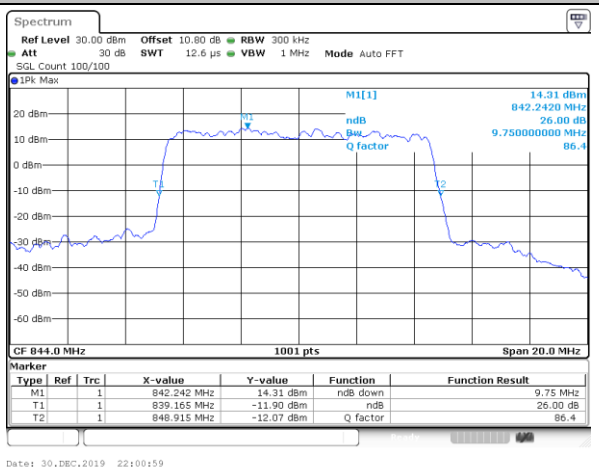
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK

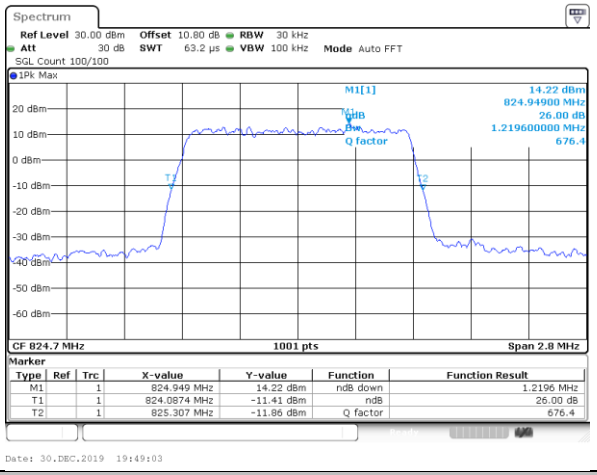


Highest Channel / 10MHz / 16QAM

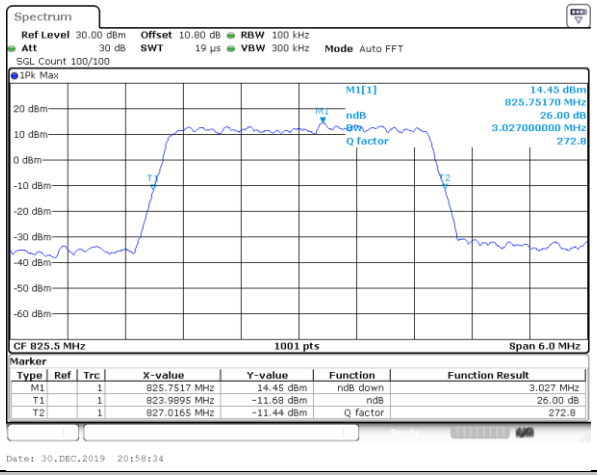


LTE Band 5

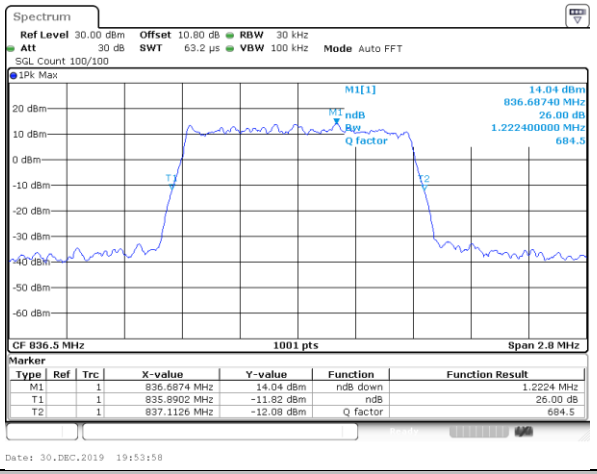
Lowest Channel / 1.4MHz / 64QAM



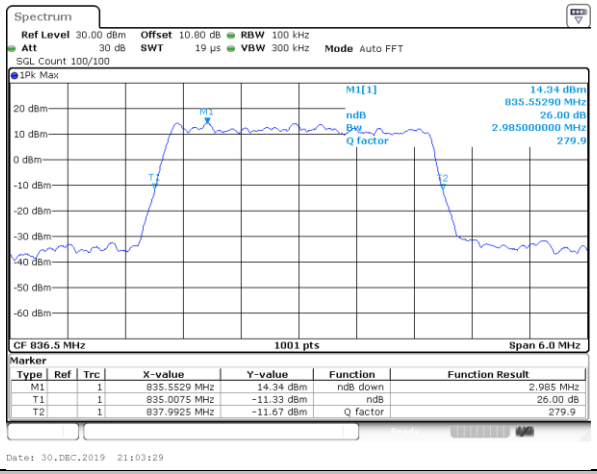
Lowest Channel / 3MHz / 64QAM



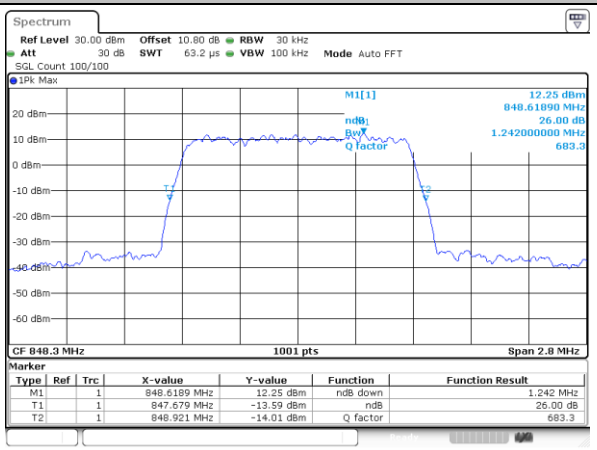
Middle Channel / 1.4MHz / 64QAM



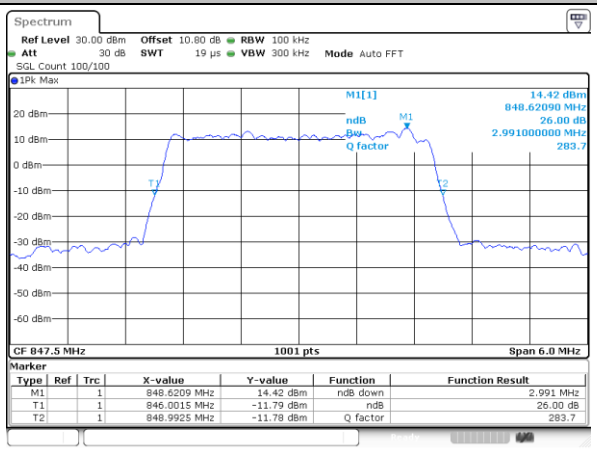
Middle Channel / 3MHz / 64QAM



Highest Channel / 1.4MHz / 64QAM

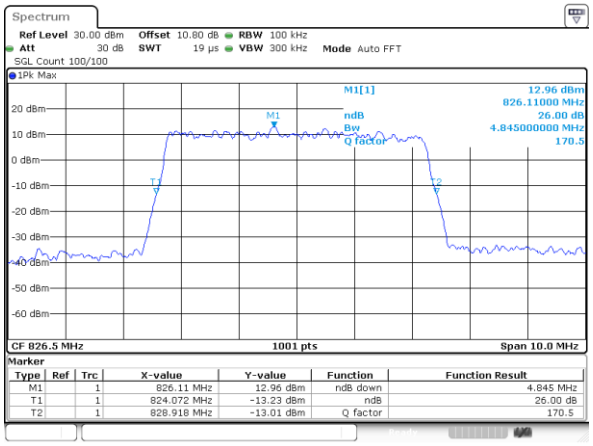


Highest Channel / 3MHz / 64QAM

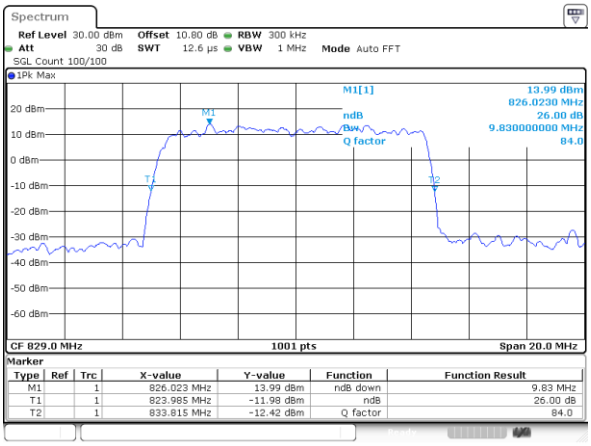


LTE Band 5

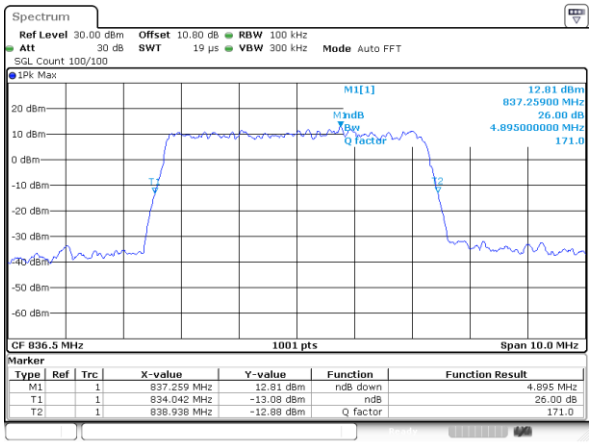
Lowest Channel / 5MHz / 64QAM



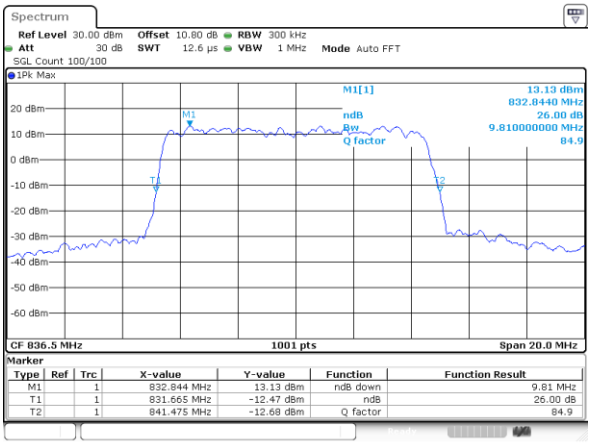
Lowest Channel / 10MHz / 64QAM



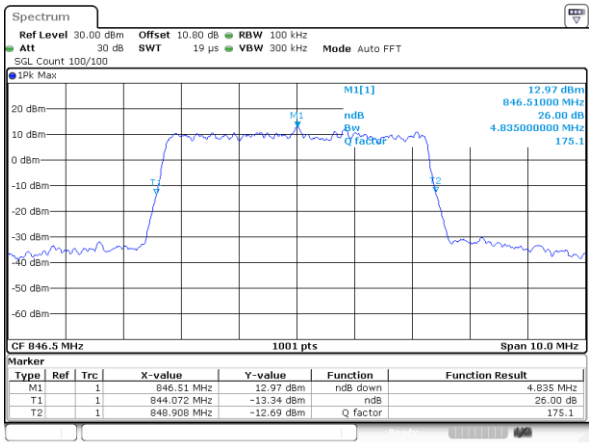
Middle Channel / 5MHz / 64QAM



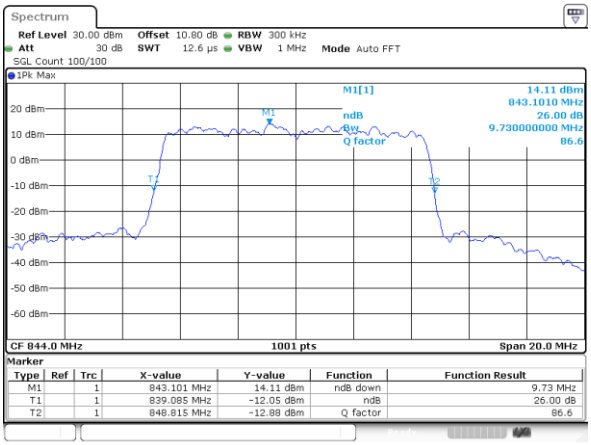
Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



Highest Channel / 10MHz / 64QAM

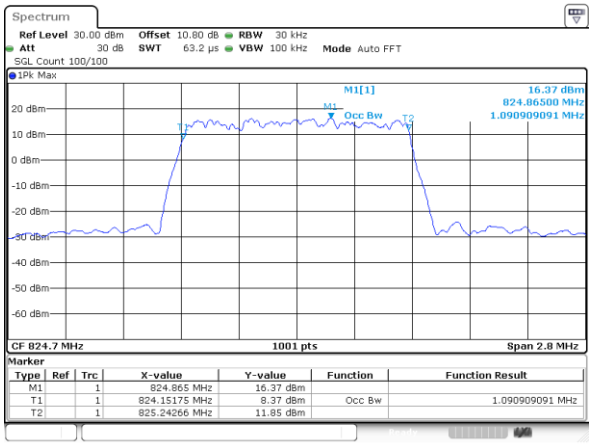


Occupied Bandwidth

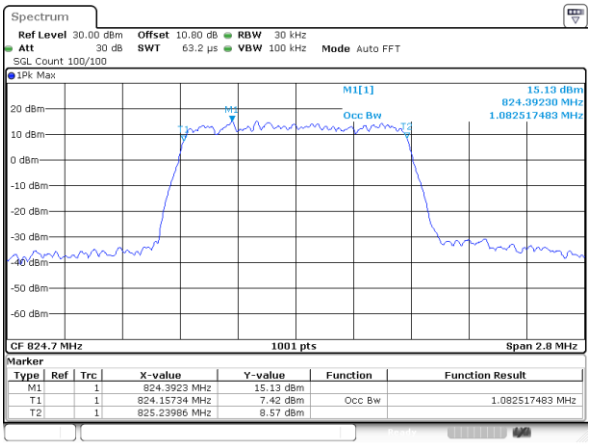
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.08	2.71	2.70	4.47	4.46	8.99	8.99	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.52	4.50	9.05	9.01	-	-	-	-
Highest CH	1.08	1.09	2.70	2.72	4.49	4.50	8.95	8.97	-	-	-	-
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.09	-	2.72	-	4.46	-	9.03	-	-	-	-	-
Middle CH	1.10	-	2.71	-	4.49	-	9.03	-	-	-	-	-
Highest CH	1.09	-	2.70	-	4.50	-	8.97	-	-	-	-	-

LTE Band 5

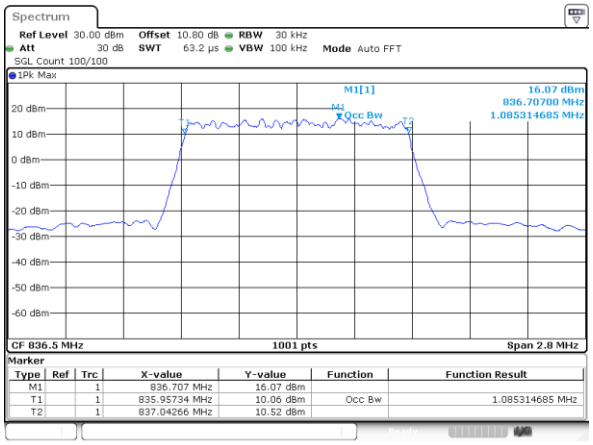
Lowest Channel / 1.4MHz / QPSK



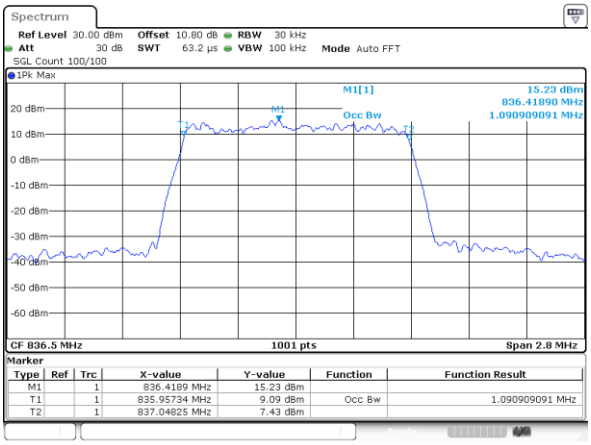
Lowest Channel / 1.4MHz / 16QAM



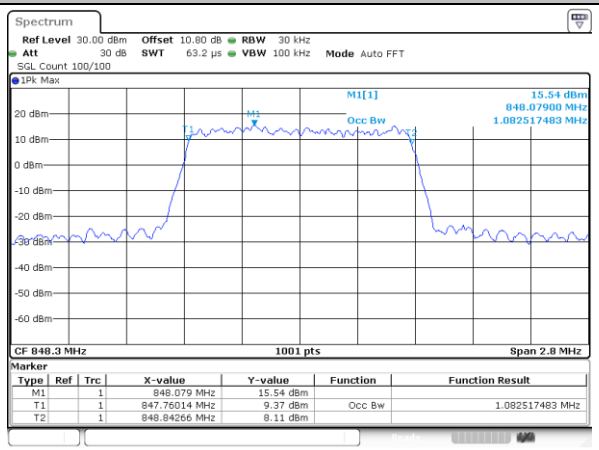
Middle Channel / 1.4MHz / QPSK



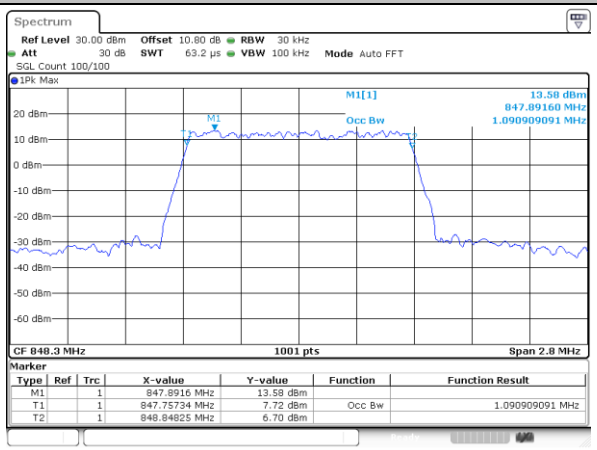
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

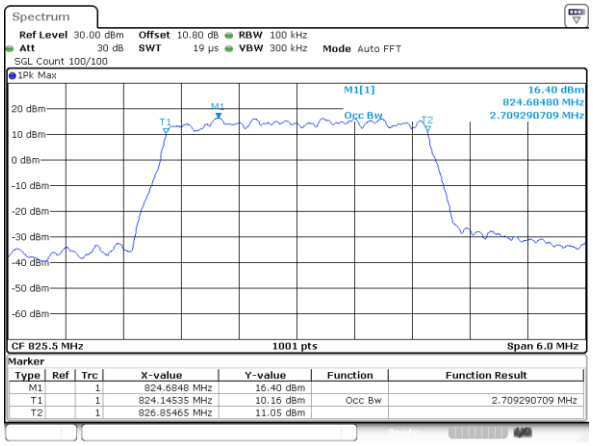


Highest Channel / 1.4MHz / 16QAM

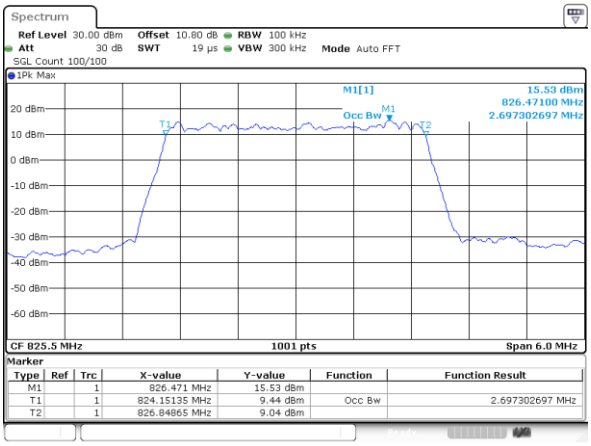


LTE Band 5

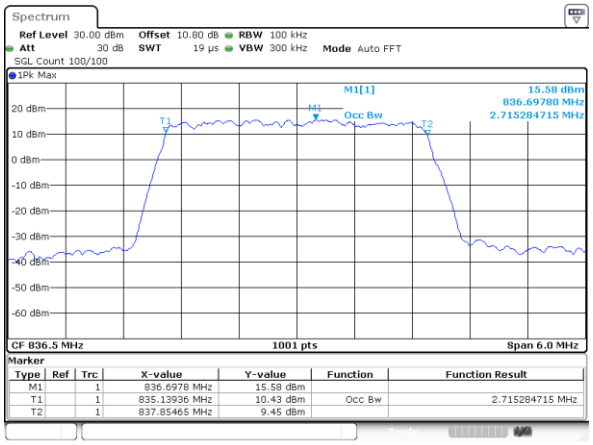
Lowest Channel / 3MHz / QPSK



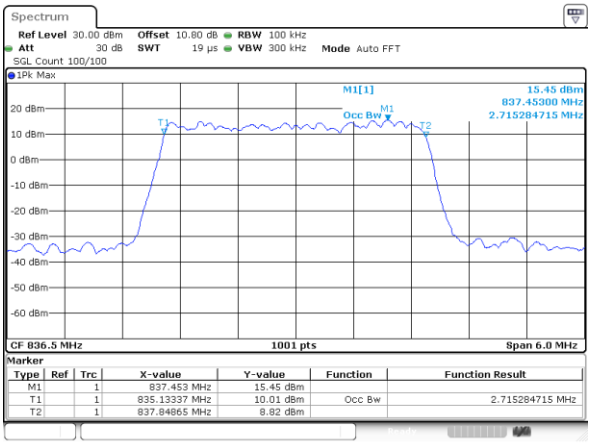
Lowest Channel / 3MHz / 16QAM



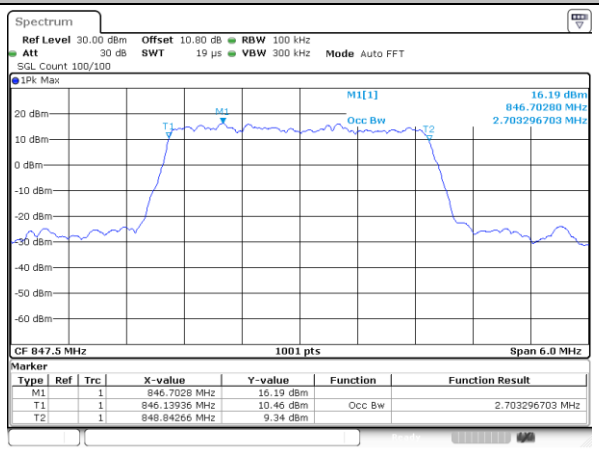
Middle Channel / 3MHz / QPSK



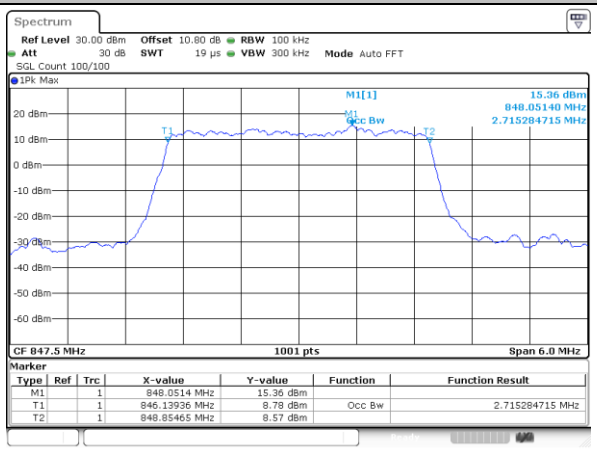
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK

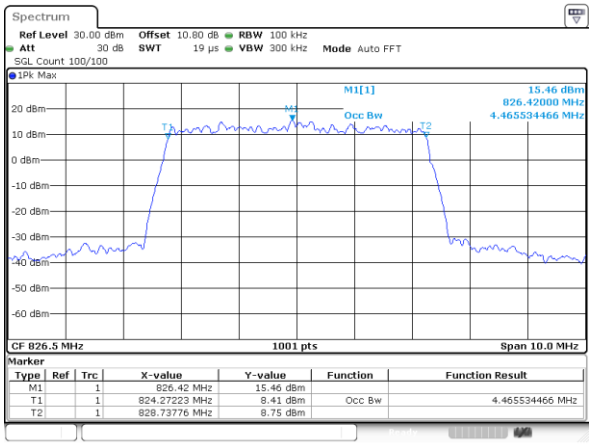


Highest Channel / 3MHz / 16QAM

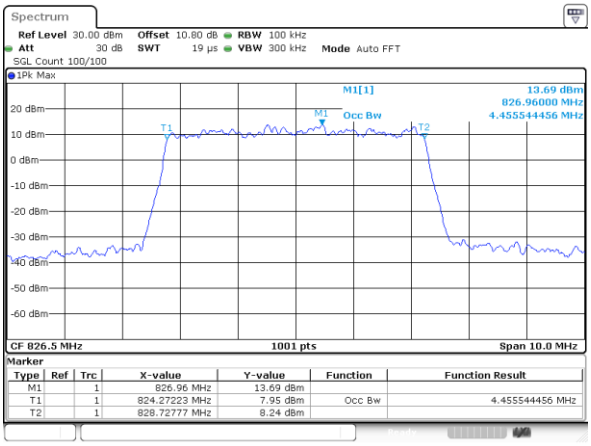


LTE Band 5

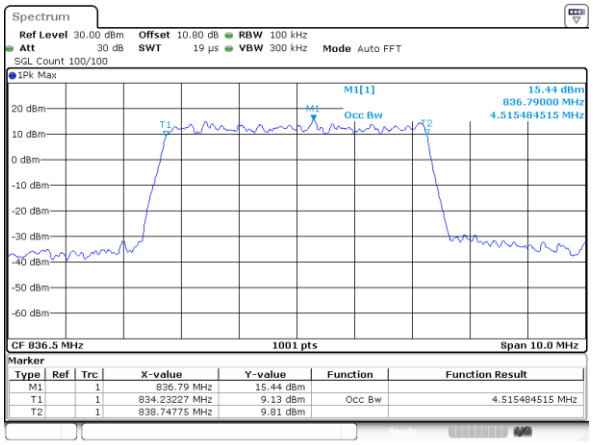
Lowest Channel / 5MHz / QPSK



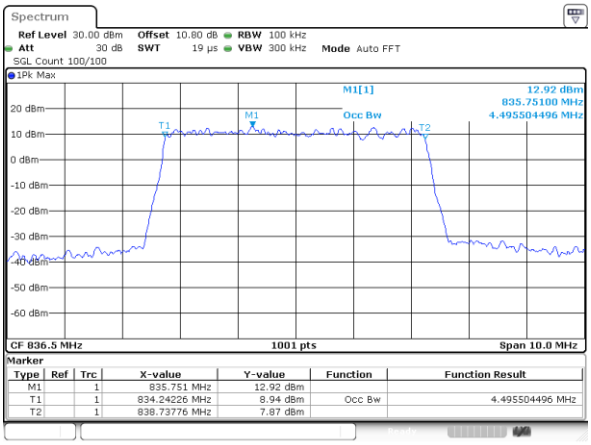
Lowest Channel / 5MHz / 16QAM



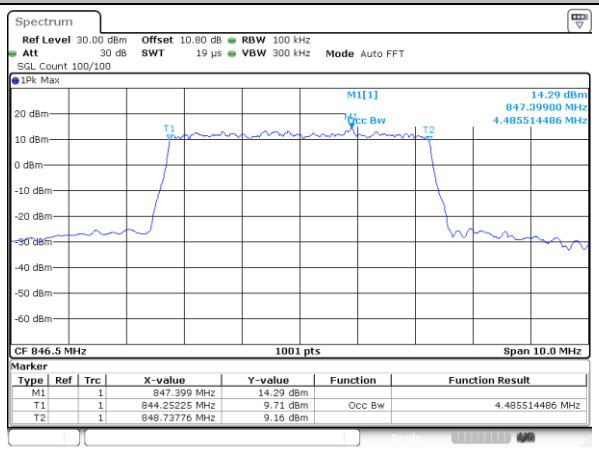
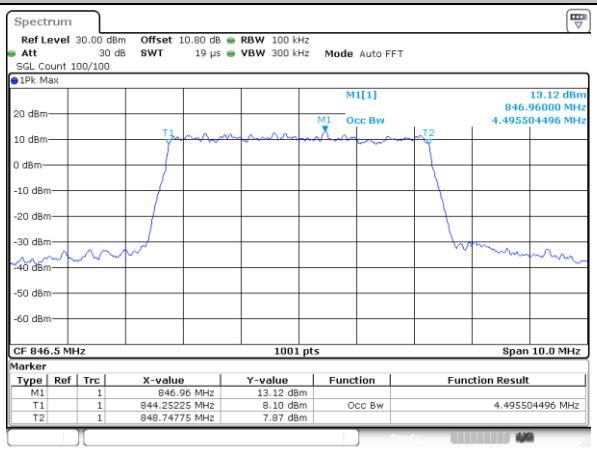
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM