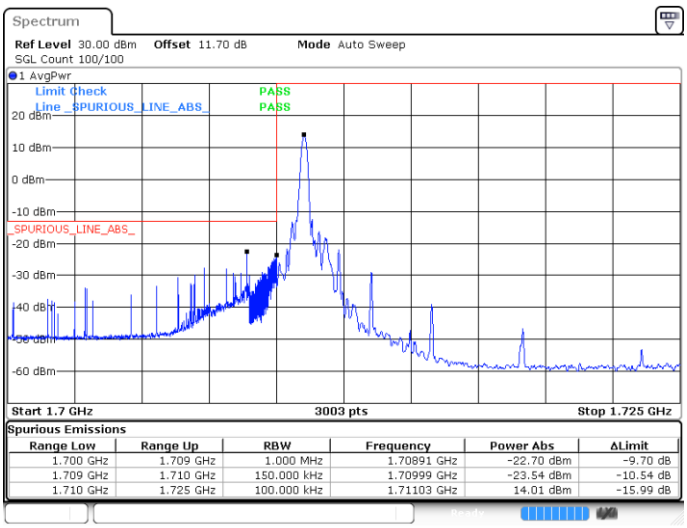
LTE Band 4 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

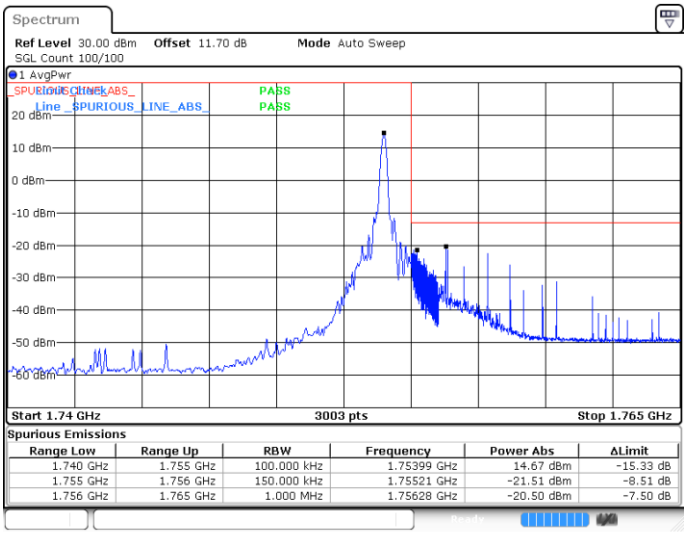


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70891 GHz	-22.70 dBm	-9.70 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.70999 GHz	-23.54 dBm	-10.54 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71103 GHz	14.01 dBm	-15.99 dB

Date: 24.FEB.2020 14:08:19

Highest Band Edge / 1 RB

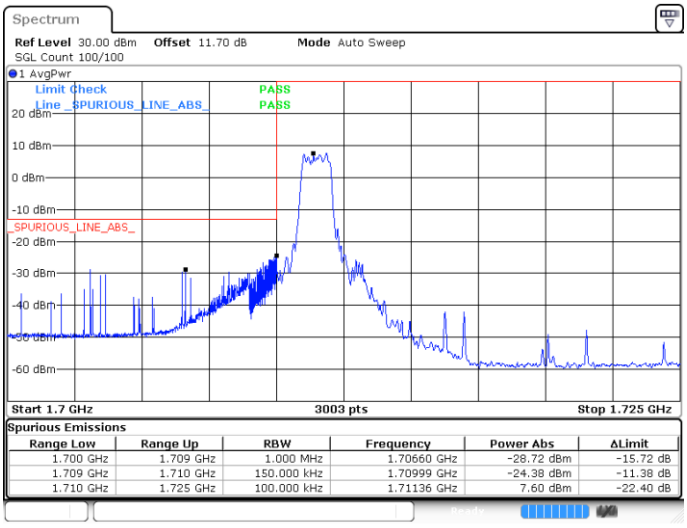


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75399 GHz	14.67 dBm	-15.33 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75521 GHz	-21.51 dBm	-8.51 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75628 GHz	-20.50 dBm	-7.50 dB

Date: 24.FEB.2020 14:16:44

Lowest Band Edge / Full RB

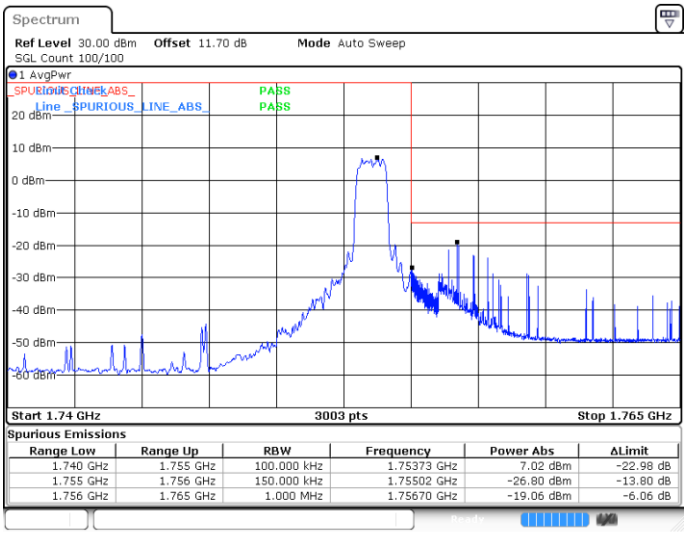


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70660 GHz	-28.72 dBm	-15.72 dB
1.709 GHz	1.710 GHz	150.000 kHz	1.70999 GHz	-24.38 dBm	-11.38 dB
1.710 GHz	1.725 GHz	100.000 kHz	1.71136 GHz	7.60 dBm	-22.40 dB

Date: 24.FEB.2020 14:09:52

Highest Band Edge / Full RB



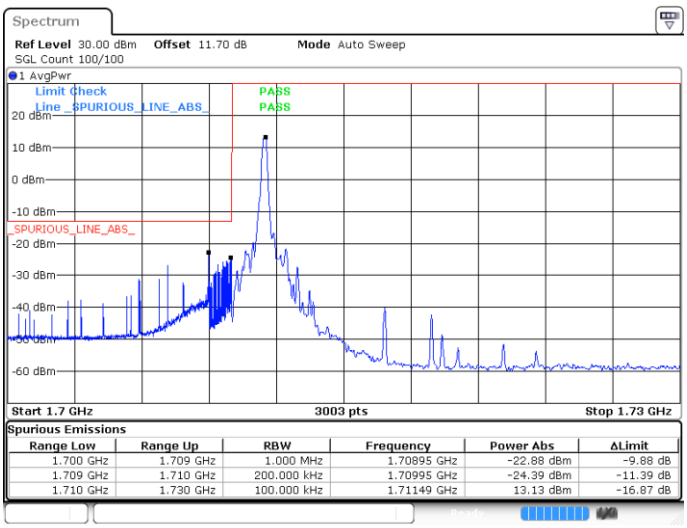
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.740 GHz	1.755 GHz	100.000 kHz	1.75373 GHz	7.02 dBm	-22.98 dB
1.755 GHz	1.756 GHz	150.000 kHz	1.75502 GHz	-26.80 dBm	-13.80 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75670 GHz	-19.06 dBm	-6.06 dB

Date: 24.FEB.2020 14:18:18

LTE Band 4 / 20MHz / QPSK

Lowest Band Edge / 1 RB

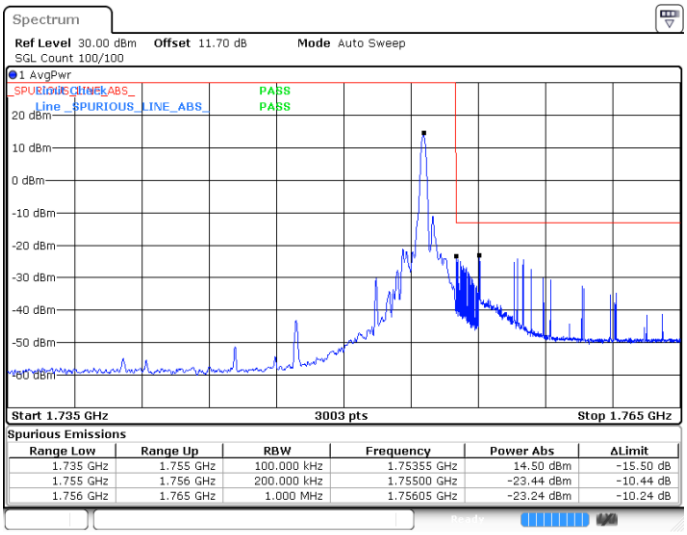


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70895 GHz	-22.88 dBm	-9.88 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70995 GHz	-24.39 dBm	-11.39 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71149 GHz	13.13 dBm	-16.87 dB

Date: 24.FEB.2020 14:31:03

Highest Band Edge / 1 RB

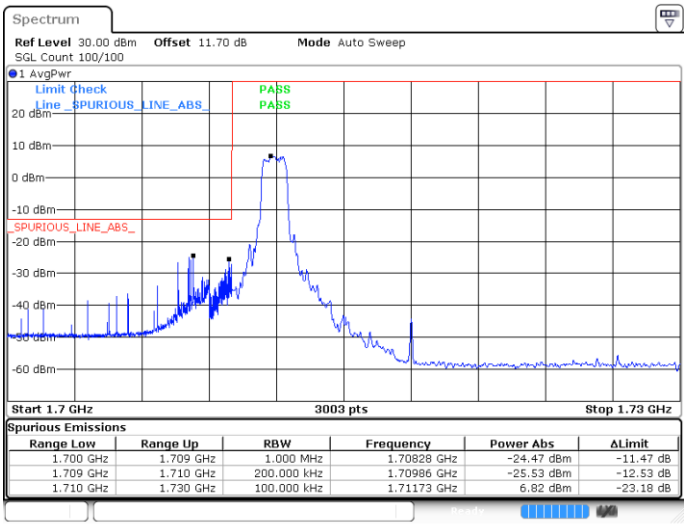


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75355 GHz	14.50 dBm	-15.50 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75500 GHz	-23.44 dBm	-10.44 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75605 GHz	-23.24 dBm	-10.24 dB

Date: 24.FEB.2020 14:40:43

Lowest Band Edge / Full RB

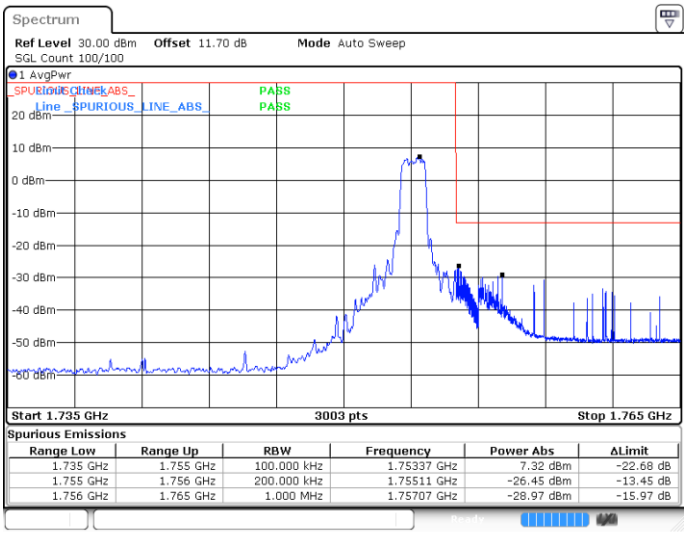


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70828 GHz	-24.47 dBm	-11.47 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70986 GHz	-25.53 dBm	-12.53 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71173 GHz	6.82 dBm	-23.18 dB

Date: 24.FEB.2020 14:32:36

Highest Band Edge / Full RB



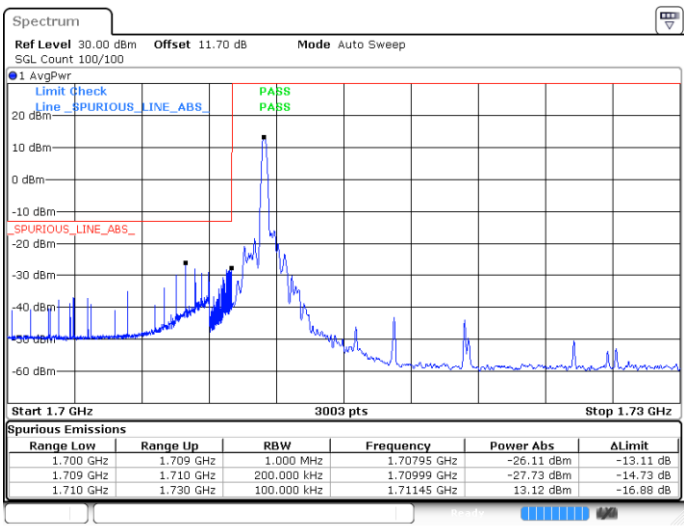
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75337 GHz	7.32 dBm	-22.68 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75511 GHz	-26.45 dBm	-13.45 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75707 GHz	-28.97 dBm	-15.97 dB

Date: 24.FEB.2020 14:42:16

LTE Band 4 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

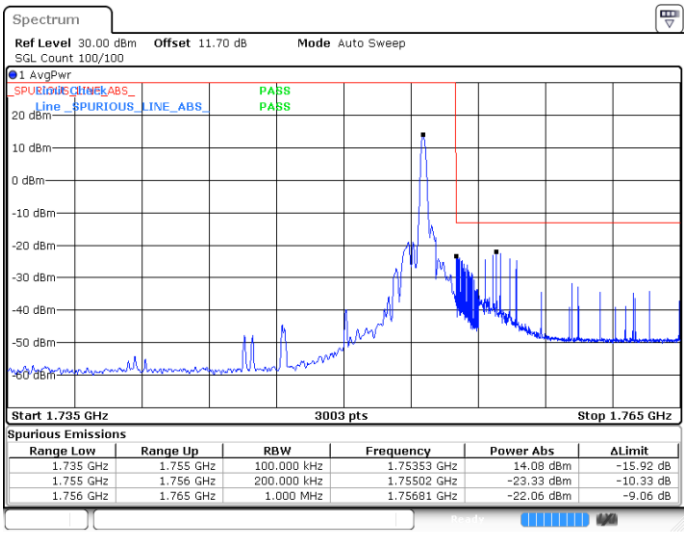


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70795 GHz	-26.11 dBm	-13.11 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70999 GHz	-27.73 dBm	-14.73 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71145 GHz	13.12 dBm	-16.88 dB

Date: 24.FEB.2020 14:31:49

Highest Band Edge / 1 RB

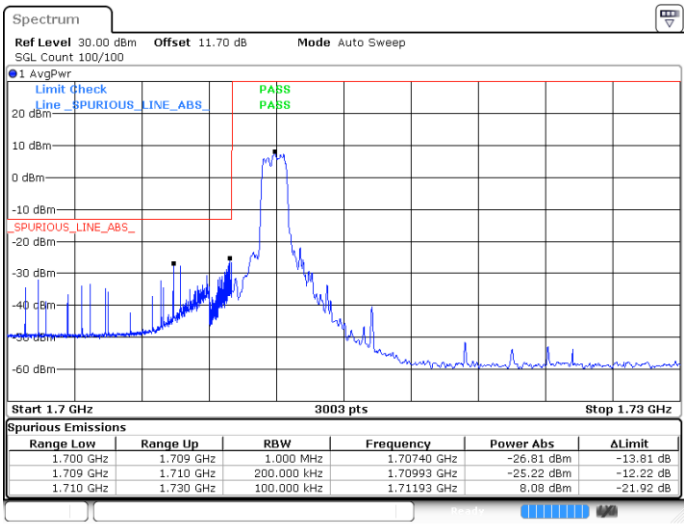


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75353 GHz	14.08 dBm	-15.92 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75502 GHz	-23.33 dBm	-10.33 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75681 GHz	-22.06 dBm	-9.06 dB

Date: 24.FEB.2020 14:41:29

Lowest Band Edge / Full RB

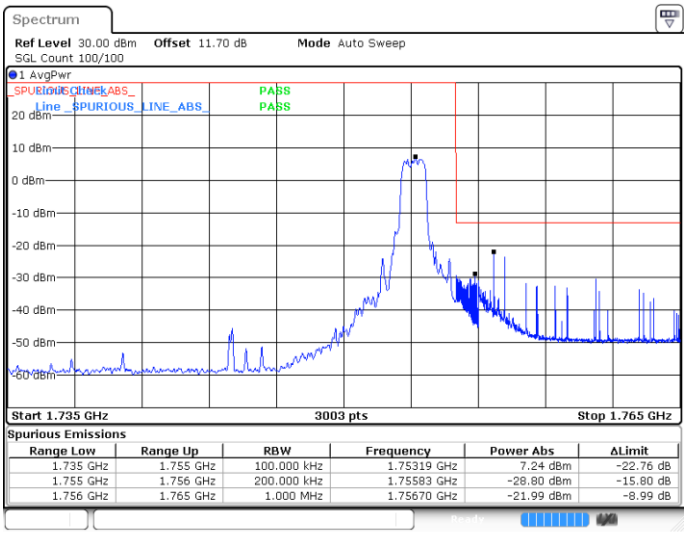


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.700 GHz	1.709 GHz	1.000 MHz	1.70740 GHz	-26.81 dBm	-13.81 dB
1.709 GHz	1.710 GHz	200.000 kHz	1.70993 GHz	-25.22 dBm	-12.22 dB
1.710 GHz	1.730 GHz	100.000 kHz	1.71193 GHz	8.08 dBm	-21.92 dB

Date: 24.FEB.2020 14:33:23

Highest Band Edge / Full RB



Spurious Emissions

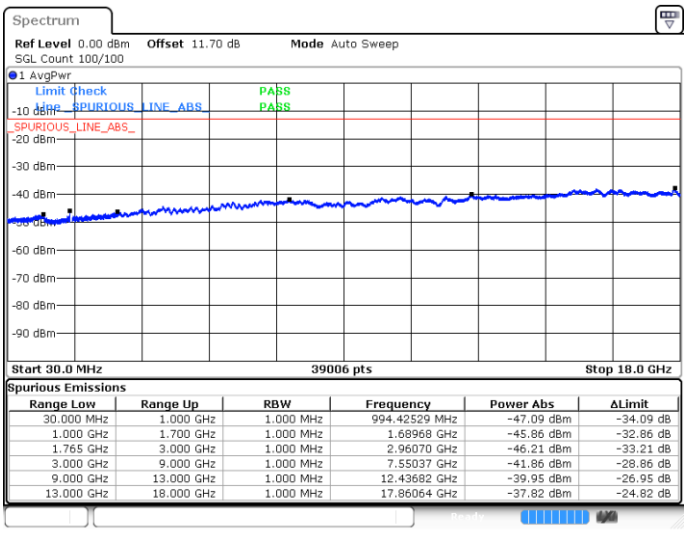
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.735 GHz	1.755 GHz	100.000 kHz	1.75319 GHz	7.24 dBm	-22.76 dB
1.755 GHz	1.756 GHz	200.000 kHz	1.75583 GHz	-28.80 dBm	-15.80 dB
1.756 GHz	1.765 GHz	1.000 MHz	1.75670 GHz	-21.99 dBm	-8.99 dB

Date: 24.FEB.2020 14:43:03

Conducted Spurious Emission

LTE Band 4 / 1.4MHz

Lowest Channel / QPSK

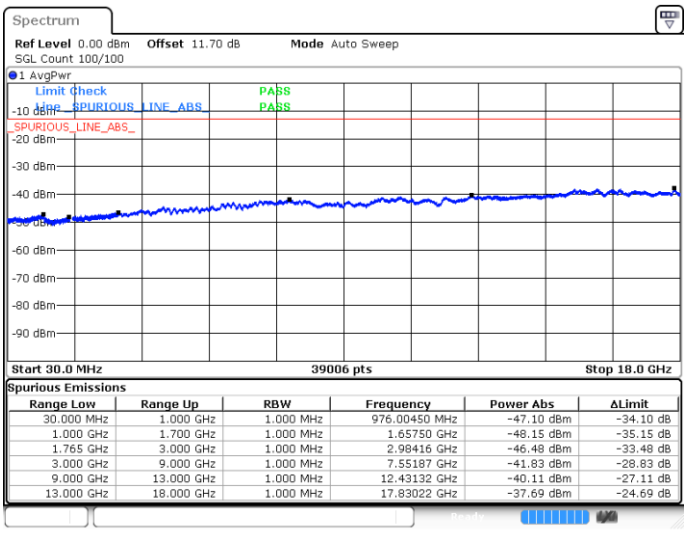


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-47.09 dBm	-34.09 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68968 GHz	-45.86 dBm	-32.86 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96070 GHz	-46.21 dBm	-33.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55037 GHz	-41.86 dBm	-28.86 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43682 GHz	-39.95 dBm	-26.95 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.86064 GHz	-37.82 dBm	-24.82 dB

Date: 24.FEB.2020 16:17:43

Lowest Channel / 16QAM

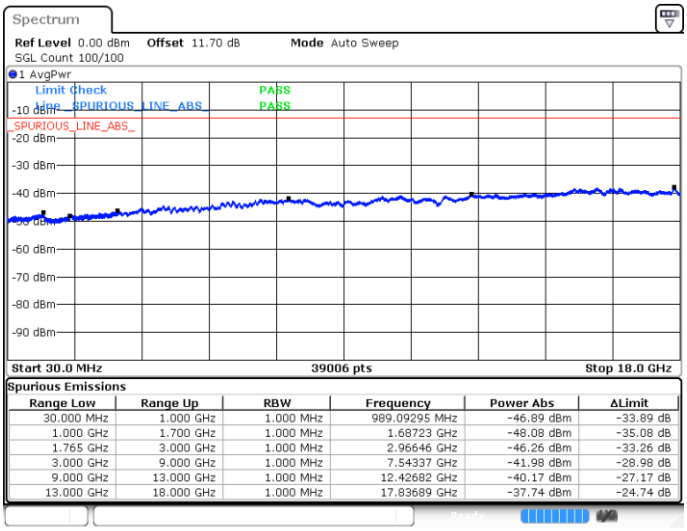


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-47.10 dBm	-34.10 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65750 GHz	-48.15 dBm	-35.15 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98416 GHz	-46.48 dBm	-33.48 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55187 GHz	-41.83 dBm	-28.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43132 GHz	-40.11 dBm	-27.11 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83022 GHz	-37.69 dBm	-24.69 dB

Date: 24.FEB.2020 16:18:30

Middle Channel / QPSK

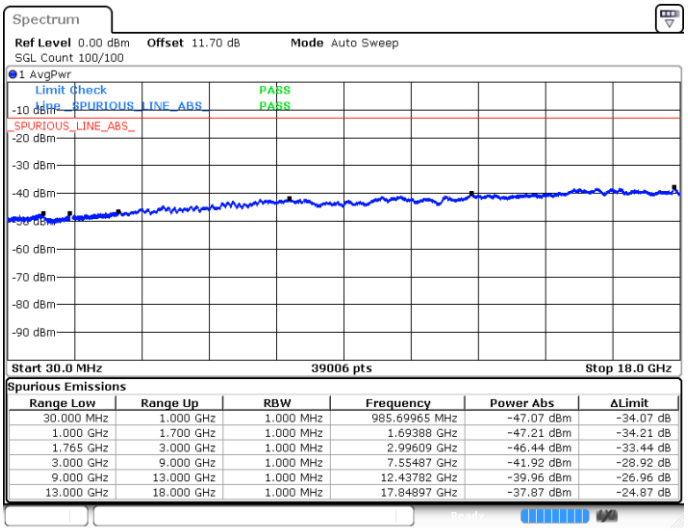


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.09295 MHz	-46.89 dBm	-33.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68723 GHz	-48.08 dBm	-35.08 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96646 GHz	-46.26 dBm	-33.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54337 GHz	-41.98 dBm	-28.98 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42682 GHz	-40.17 dBm	-27.17 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83689 GHz	-37.74 dBm	-24.74 dB

Date: 24.FEB.2020 16:05:11

Middle Channel / 16QAM



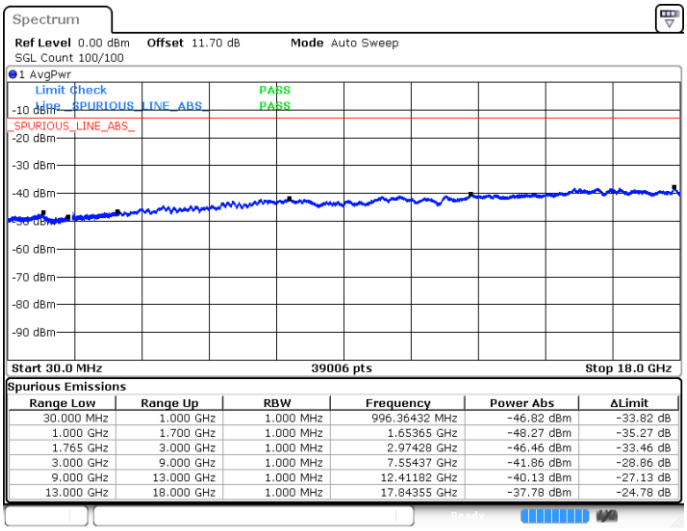
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	985.69965 MHz	-47.07 dBm	-34.07 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69388 GHz	-47.21 dBm	-34.21 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99609 GHz	-46.44 dBm	-33.44 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55487 GHz	-41.92 dBm	-28.92 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43782 GHz	-39.96 dBm	-26.96 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84897 GHz	-37.87 dBm	-24.87 dB

Date: 24.FEB.2020 16:05:58

LTE Band 4 / 1.4MHz

Highest Channel / QPSK

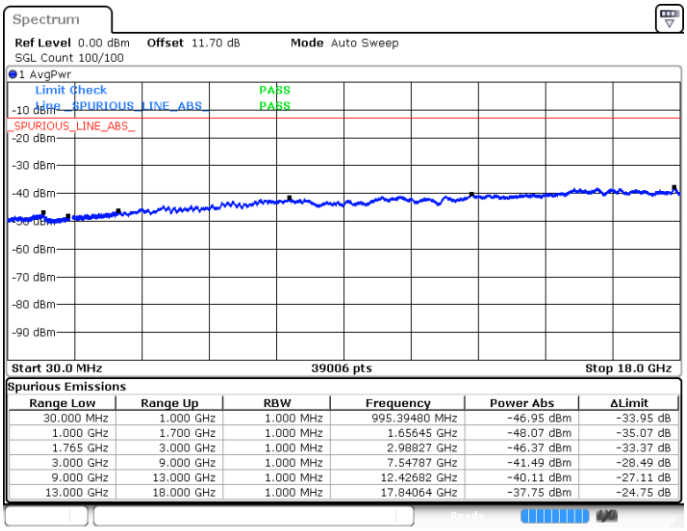


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-46.82 dBm	-33.82 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65365 GHz	-48.27 dBm	-35.27 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97428 GHz	-46.46 dBm	-33.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55437 GHz	-41.86 dBm	-28.86 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41182 GHz	-40.13 dBm	-27.13 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84355 GHz	-37.78 dBm	-24.78 dB

Date: 24.FEB.2020 16:32:22

Highest Channel / 16QAM



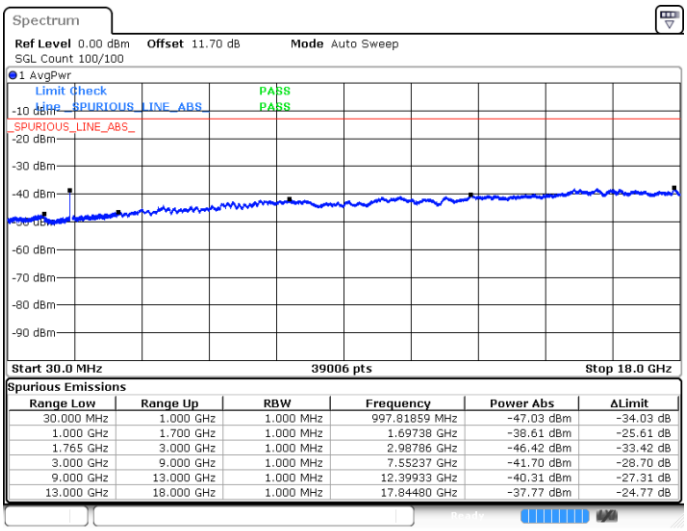
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	995.39480 MHz	-46.95 dBm	-33.95 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65645 GHz	-48.07 dBm	-35.07 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98827 GHz	-46.37 dBm	-33.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54787 GHz	-41.49 dBm	-28.49 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42682 GHz	-40.11 dBm	-27.11 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84064 GHz	-37.75 dBm	-24.75 dB

Date: 24.FEB.2020 16:33:09

LTE Band 4 / 3MHz

Lowest Channel / QPSK

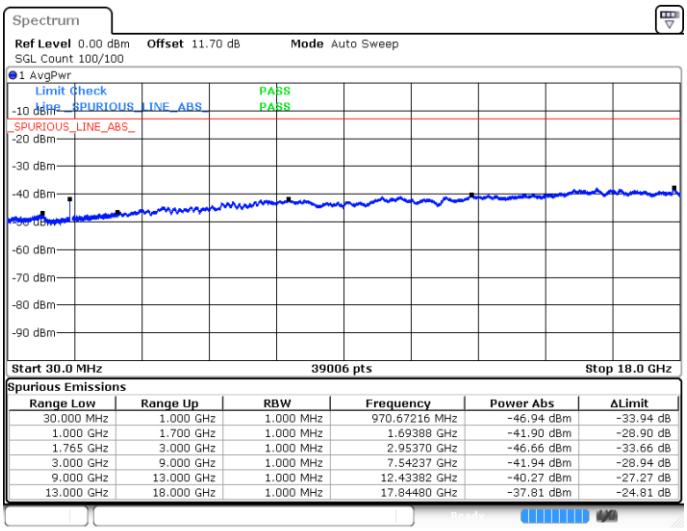


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-47.03 dBm	-34.03 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69738 GHz	-38.61 dBm	-25.61 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98786 GHz	-46.42 dBm	-33.42 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-41.70 dBm	-28.70 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39933 GHz	-40.31 dBm	-27.31 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84480 GHz	-37.77 dBm	-24.77 dB

Date: 24.FEB.2020 10:47:50

Lowest Channel / 16QAM



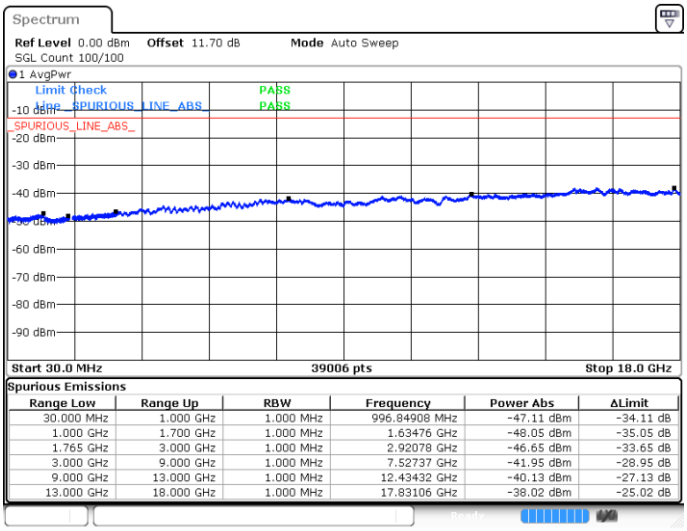
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	970.67216 MHz	-46.94 dBm	-33.94 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69388 GHz	-41.90 dBm	-28.90 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.95370 GHz	-46.66 dBm	-33.66 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54237 GHz	-41.94 dBm	-28.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43382 GHz	-40.27 dBm	-27.27 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84480 GHz	-37.81 dBm	-24.81 dB

Date: 24.FEB.2020 10:48:37

LTE Band 4 / 3MHz

Middle Channel / QPSK

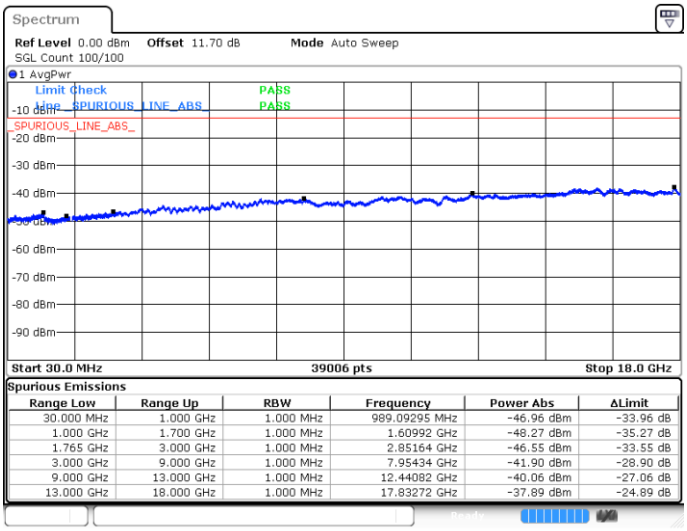


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-47.11 dBm	-34.11 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63476 GHz	-48.05 dBm	-35.05 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.92078 GHz	-46.65 dBm	-33.65 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.52737 GHz	-41.95 dBm	-28.95 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43432 GHz	-40.13 dBm	-27.13 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83106 GHz	-38.02 dBm	-25.02 dB

Date: 24.FEB.2020 11:06:39

Middle Channel / 16QAM

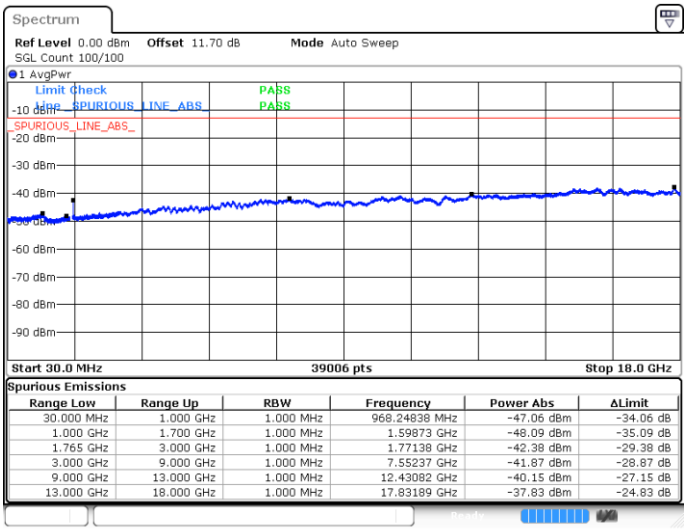


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.09295 MHz	-46.96 dBm	-33.96 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.60992 GHz	-48.27 dBm	-35.27 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.85164 GHz	-46.55 dBm	-33.55 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.95434 GHz	-41.90 dBm	-28.90 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44082 GHz	-40.06 dBm	-27.06 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83272 GHz	-37.89 dBm	-24.89 dB

Date: 24.FEB.2020 11:07:26

Highest Channel / QPSK

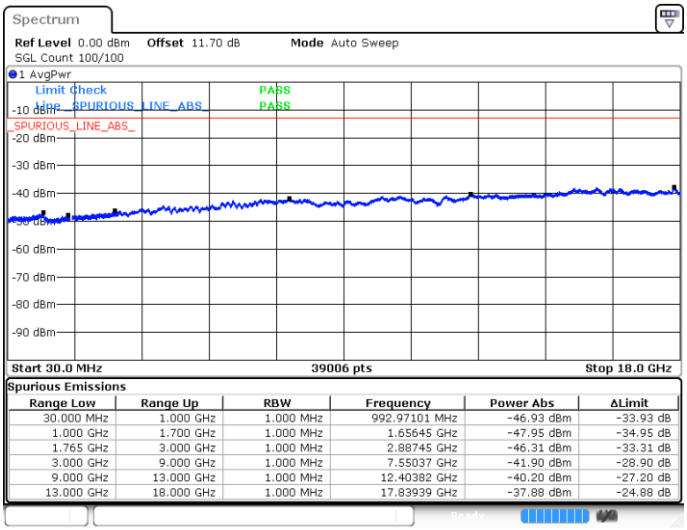


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	968.24838 MHz	-47.06 dBm	-34.06 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.59873 GHz	-48.09 dBm	-35.09 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.77138 GHz	-42.38 dBm	-29.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-41.87 dBm	-28.87 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43082 GHz	-40.15 dBm	-27.15 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83189 GHz	-37.83 dBm	-24.83 dB

Date: 24.FEB.2020 11:15:01

Highest Channel / 16QAM



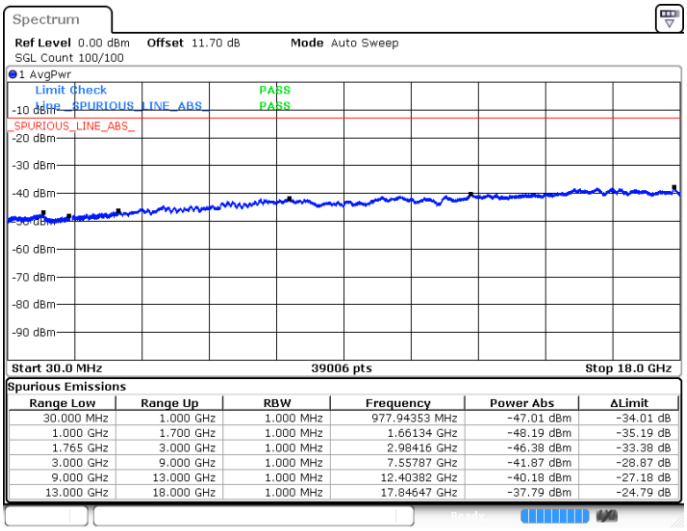
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.97101 MHz	-46.93 dBm	-33.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65645 GHz	-47.95 dBm	-34.95 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.88745 GHz	-46.31 dBm	-33.31 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55037 GHz	-41.90 dBm	-28.90 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40382 GHz	-40.20 dBm	-27.20 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83939 GHz	-37.88 dBm	-24.88 dB

Date: 24.FEB.2020 11:15:48

LTE Band 4 / 5MHz

Lowest Channel / QPSK

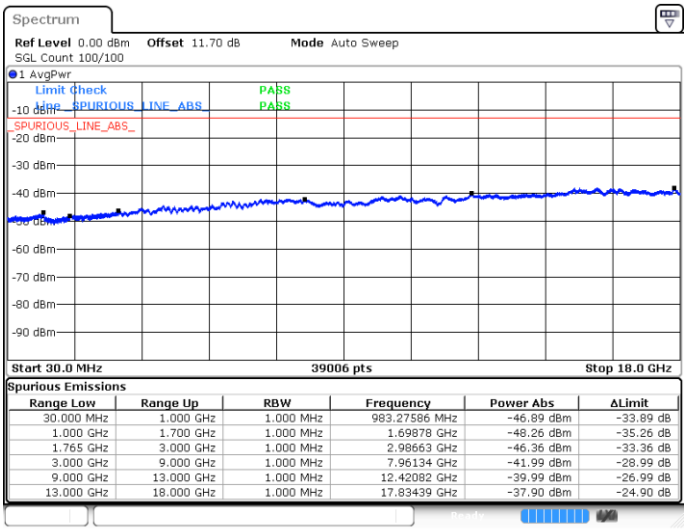


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.94353 MHz	-47.01 dBm	-34.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66134 GHz	-48.19 dBm	-35.19 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98416 GHz	-46.38 dBm	-33.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55787 GHz	-41.87 dBm	-28.87 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40382 GHz	-40.18 dBm	-27.18 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84647 GHz	-37.79 dBm	-24.79 dB

Date: 24.FEB.2020 11:36:49

Lowest Channel / 16QAM

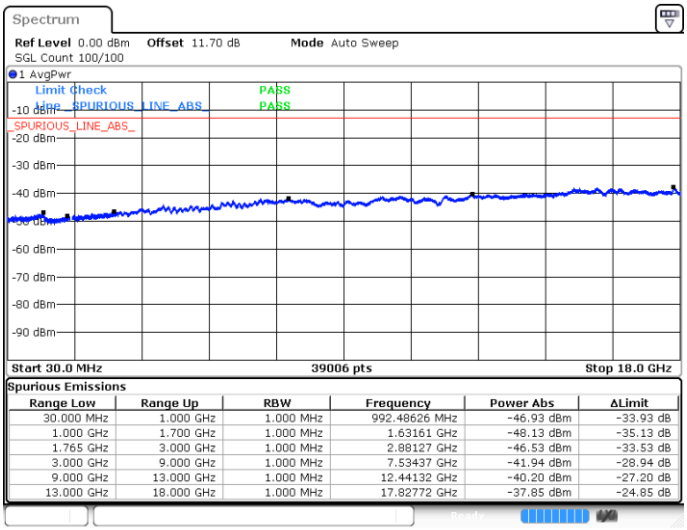


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	983.27586 MHz	-46.89 dBm	-33.89 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69878 GHz	-48.26 dBm	-35.26 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98663 GHz	-46.36 dBm	-33.36 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.96134 GHz	-41.99 dBm	-28.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42082 GHz	-39.99 dBm	-26.99 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83439 GHz	-37.90 dBm	-24.90 dB

Date: 24.FEB.2020 11:37:35

Middle Channel / QPSK

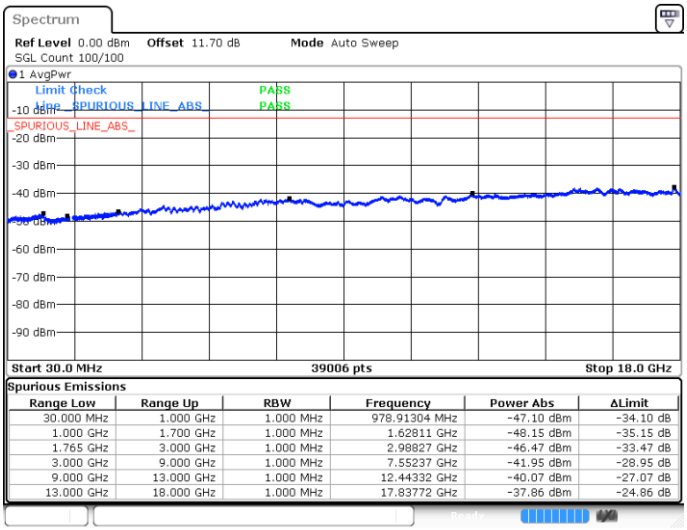


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.48626 MHz	-46.93 dBm	-33.93 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63161 GHz	-48.13 dBm	-35.13 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.88127 GHz	-46.53 dBm	-33.53 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.53437 GHz	-41.94 dBm	-28.94 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44132 GHz	-40.20 dBm	-27.20 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82772 GHz	-37.85 dBm	-24.85 dB

Date: 24.FEB.2020 11:22:18

Middle Channel / 16QAM



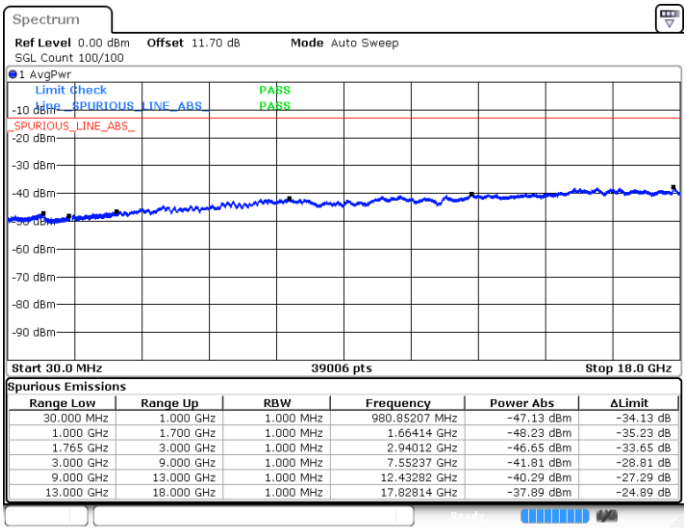
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.91304 MHz	-47.10 dBm	-34.10 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62811 GHz	-48.15 dBm	-35.15 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98827 GHz	-46.47 dBm	-33.47 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-41.95 dBm	-28.95 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44332 GHz	-40.07 dBm	-27.07 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83772 GHz	-37.86 dBm	-24.86 dB

Date: 24.FEB.2020 11:23:05

LTE Band 4 / 5MHz

Highest Channel / QPSK

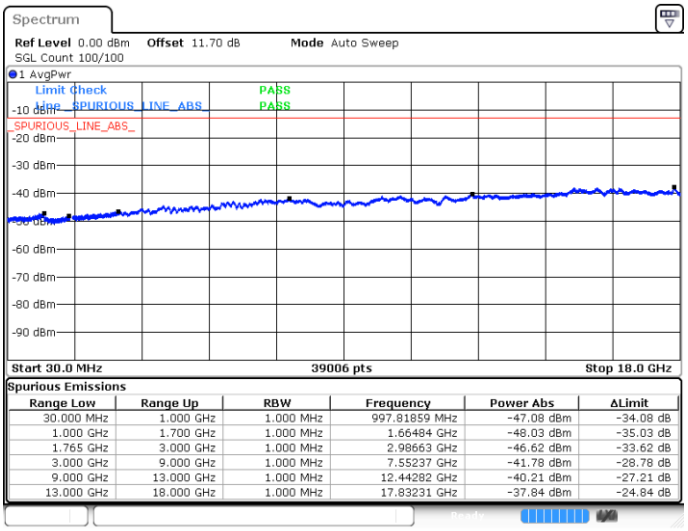


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	980.85207 MHz	-47.13 dBm	-34.13 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66414 GHz	-48.23 dBm	-35.23 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.94012 GHz	-46.65 dBm	-33.65 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-41.81 dBm	-28.81 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43282 GHz	-40.29 dBm	-27.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82814 GHz	-37.89 dBm	-24.89 dB

Date: 24.FEB.2020 11:44:25

Highest Channel / 16QAM



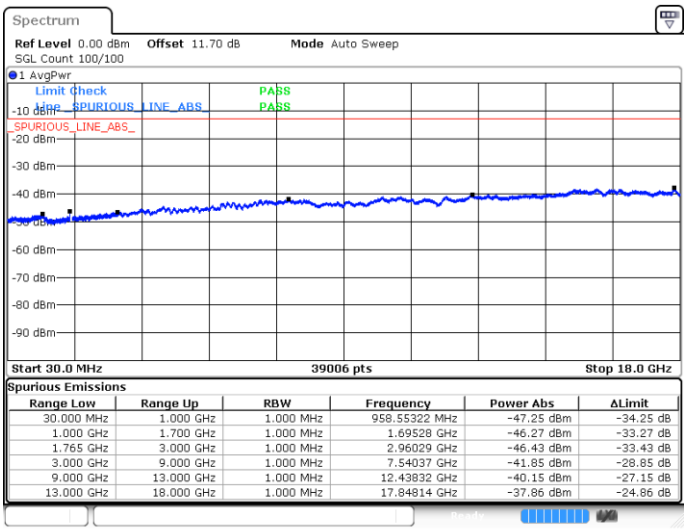
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-47.08 dBm	-34.08 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66484 GHz	-48.03 dBm	-35.03 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98663 GHz	-46.62 dBm	-33.62 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55237 GHz	-41.78 dBm	-28.78 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44282 GHz	-40.21 dBm	-27.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83231 GHz	-37.84 dBm	-24.84 dB

Date: 24.FEB.2020 11:45:12

LTE Band 4 / 10MHz

Lowest Channel / QPSK

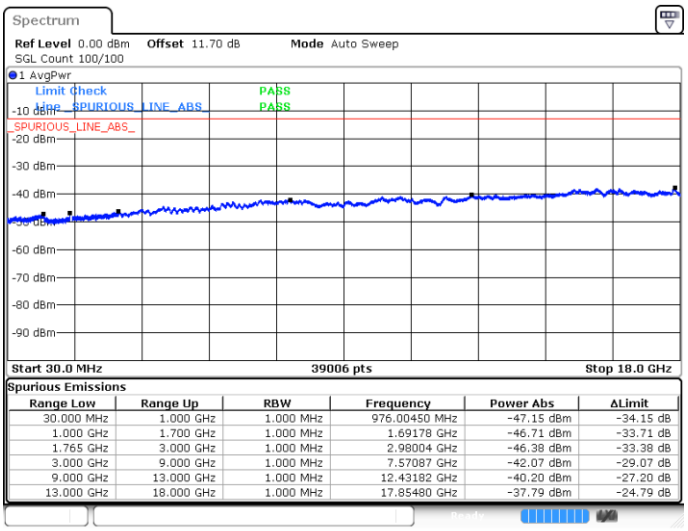


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	958.55322 MHz	-47.25 dBm	-34.25 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69528 GHz	-46.27 dBm	-33.27 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96029 GHz	-46.43 dBm	-33.43 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54037 GHz	-41.85 dBm	-28.85 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43832 GHz	-40.15 dBm	-27.15 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84814 GHz	-37.86 dBm	-24.86 dB

Date: 24.FEB.2020 12:03:12

Lowest Channel / 16QAM



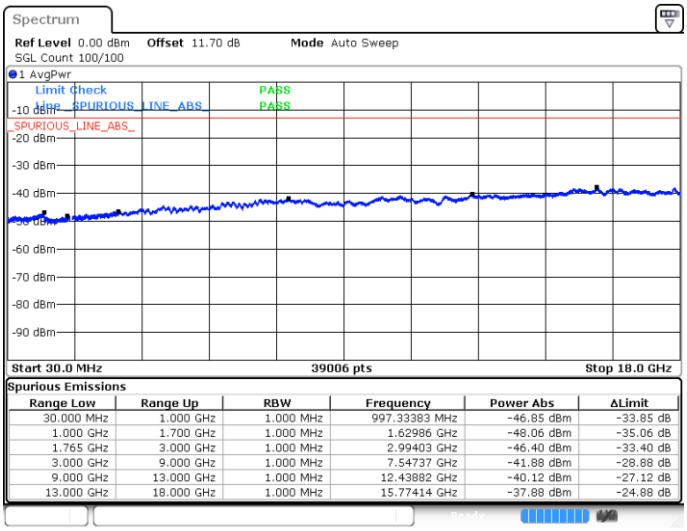
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-47.15 dBm	-34.15 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69178 GHz	-46.71 dBm	-33.71 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98004 GHz	-46.38 dBm	-33.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.57087 GHz	-42.07 dBm	-29.07 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43182 GHz	-40.20 dBm	-27.20 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85480 GHz	-37.79 dBm	-24.79 dB

Date: 24.FEB.2020 12:03:59

LTE Band 4 / 10MHz

Middle Channel / QPSK

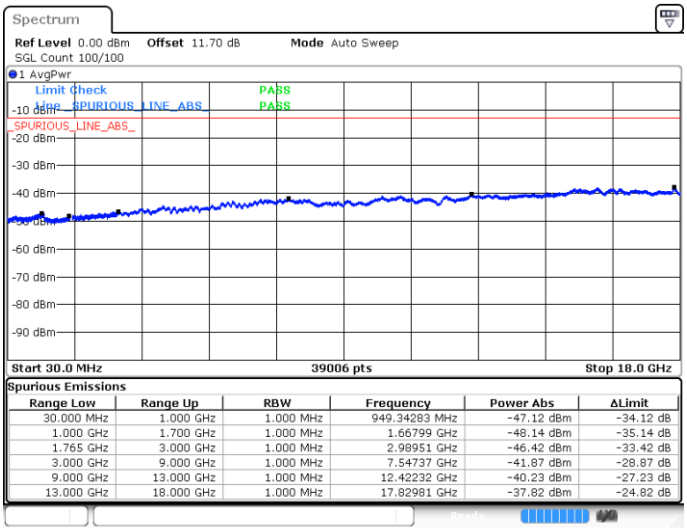


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.33383 MHz	-46.85 dBm	-33.85 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62986 GHz	-48.06 dBm	-35.06 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99403 GHz	-46.40 dBm	-33.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-41.88 dBm	-28.88 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43882 GHz	-40.12 dBm	-27.12 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.77414 GHz	-37.88 dBm	-24.88 dB

Date: 24.FEB.2020 11:54:41

Middle Channel / 16QAM

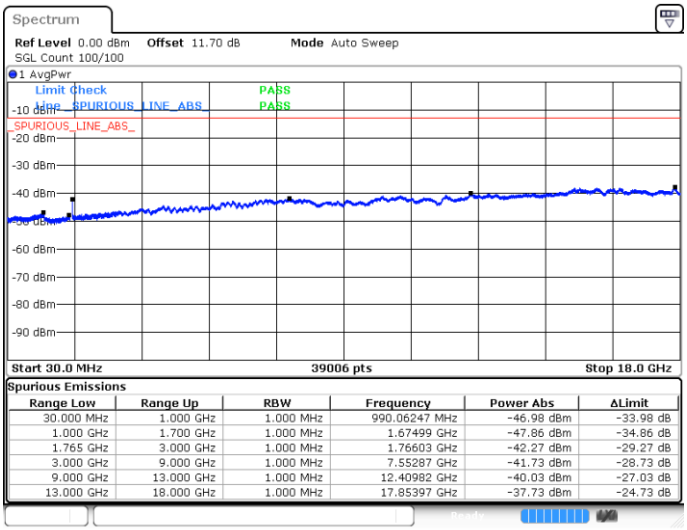


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	949.34283 MHz	-47.12 dBm	-34.12 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66799 GHz	-48.14 dBm	-35.14 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98951 GHz	-46.42 dBm	-33.42 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-41.87 dBm	-28.87 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42232 GHz	-40.23 dBm	-27.23 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82981 GHz	-37.82 dBm	-24.82 dB

Date: 24.FEB.2020 11:55:27

Highest Channel / QPSK

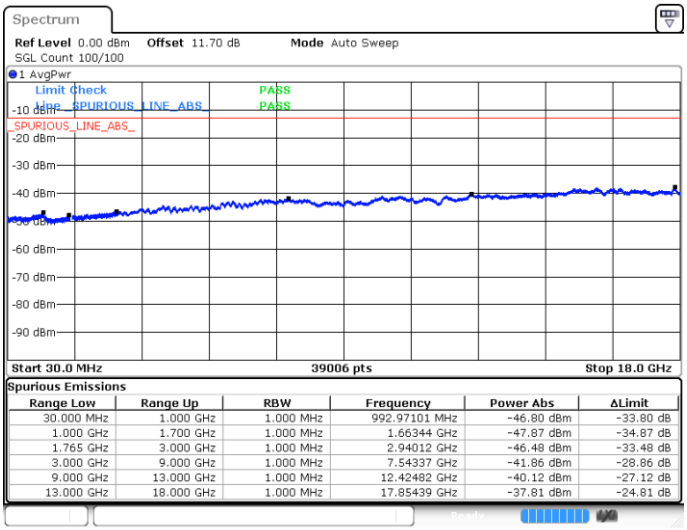


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.06247 MHz	-46.98 dBm	-33.98 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67499 GHz	-47.86 dBm	-34.86 dB
1.765 GHz	3.000 GHz	1.000 MHz	1.76603 GHz	-42.27 dBm	-29.27 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55287 GHz	-41.73 dBm	-28.73 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.40982 GHz	-40.03 dBm	-27.03 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85397 GHz	-37.73 dBm	-24.73 dB

Date: 24.FEB.2020 13:55:08

Highest Channel / 16QAM



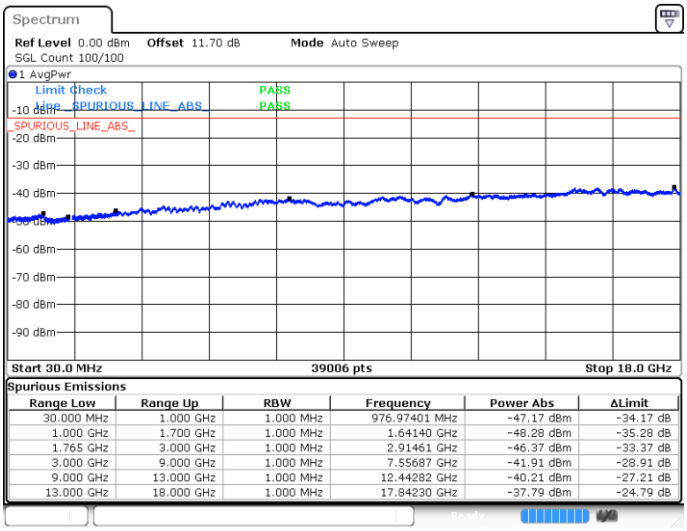
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.97101 MHz	-46.80 dBm	-33.80 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66344 GHz	-47.87 dBm	-34.87 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.94012 GHz	-46.48 dBm	-33.48 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54337 GHz	-41.86 dBm	-28.86 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42482 GHz	-40.12 dBm	-27.12 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85439 GHz	-37.81 dBm	-24.81 dB

Date: 24.FEB.2020 13:55:55

LTE Band 4 / 15MHz

Lowest Channel / QPSK

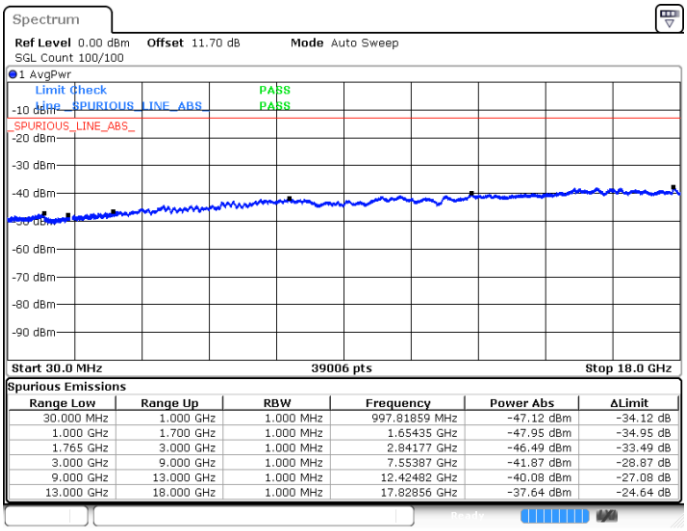


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.97401 MHz	-47.17 dBm	-34.17 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64140 GHz	-48.28 dBm	-35.28 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.91461 GHz	-46.37 dBm	-33.37 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55687 GHz	-41.91 dBm	-28.91 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44282 GHz	-40.21 dBm	-27.21 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84230 GHz	-37.79 dBm	-24.79 dB

Date: 24.FEB.2020 14:10:40

Lowest Channel / 16QAM

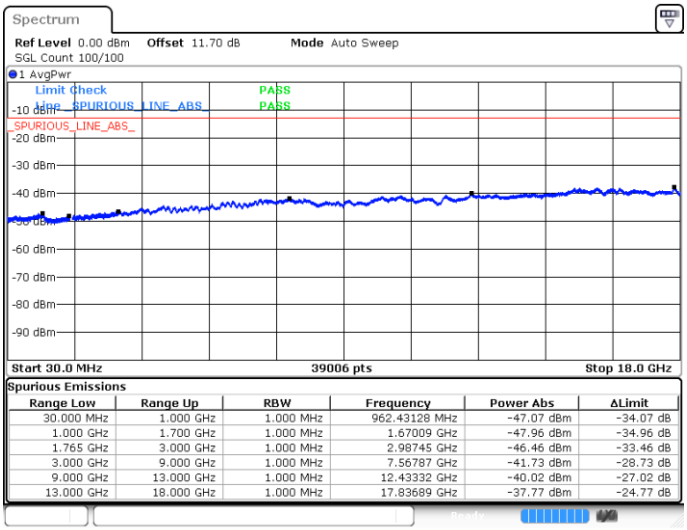


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-47.12 dBm	-34.12 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65435 GHz	-47.95 dBm	-34.95 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.84177 GHz	-46.49 dBm	-33.49 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55387 GHz	-41.87 dBm	-28.87 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42482 GHz	-40.08 dBm	-27.08 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82856 GHz	-37.64 dBm	-24.64 dB

Date: 24.FEB.2020 14:11:27

Middle Channel / QPSK

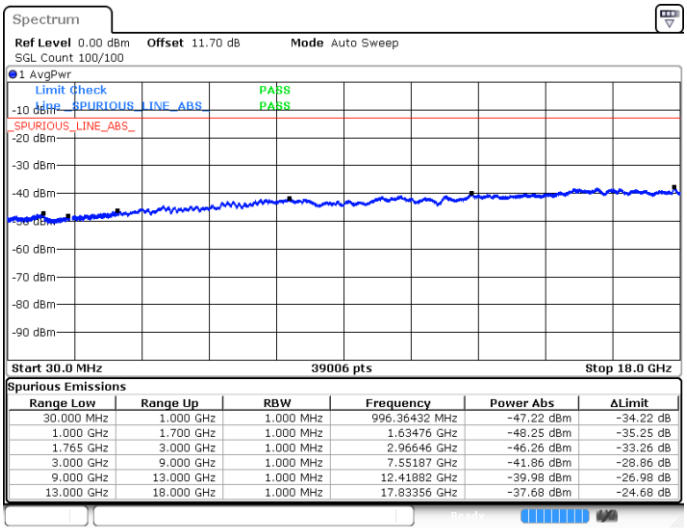


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	962.43128 MHz	-47.07 dBm	-34.07 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.67009 GHz	-47.96 dBm	-34.96 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98745 GHz	-46.46 dBm	-33.46 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.56787 GHz	-41.73 dBm	-28.73 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43332 GHz	-40.02 dBm	-27.02 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83689 GHz	-37.77 dBm	-24.77 dB

Date: 24.FEB.2020 14:00:28

Middle Channel / 16QAM



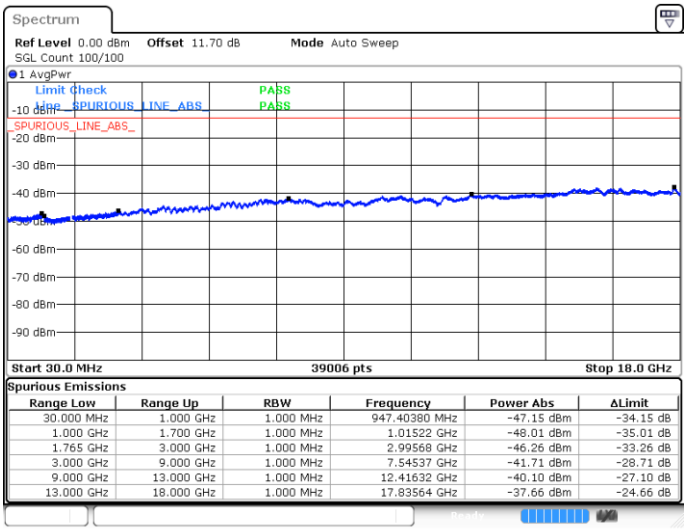
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.36432 MHz	-47.22 dBm	-34.22 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63476 GHz	-48.25 dBm	-35.25 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96646 GHz	-46.26 dBm	-33.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55187 GHz	-41.86 dBm	-28.86 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41882 GHz	-39.98 dBm	-26.98 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83356 GHz	-37.68 dBm	-24.68 dB

Date: 24.FEB.2020 14:01:15

LTE Band 4 / 15MHz

Highest Channel / QPSK

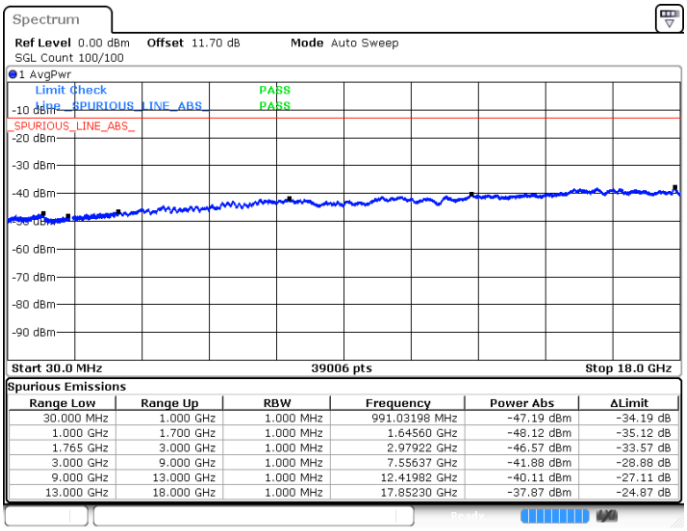


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	947.40380 MHz	-47.15 dBm	-34.15 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.01522 GHz	-48.01 dBm	-35.01 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99568 GHz	-46.26 dBm	-33.26 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54537 GHz	-41.71 dBm	-28.71 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41632 GHz	-40.10 dBm	-27.10 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.83564 GHz	-37.66 dBm	-24.66 dB

Date: 24.FEB.2020 14:19:06

Highest Channel / 16QAM



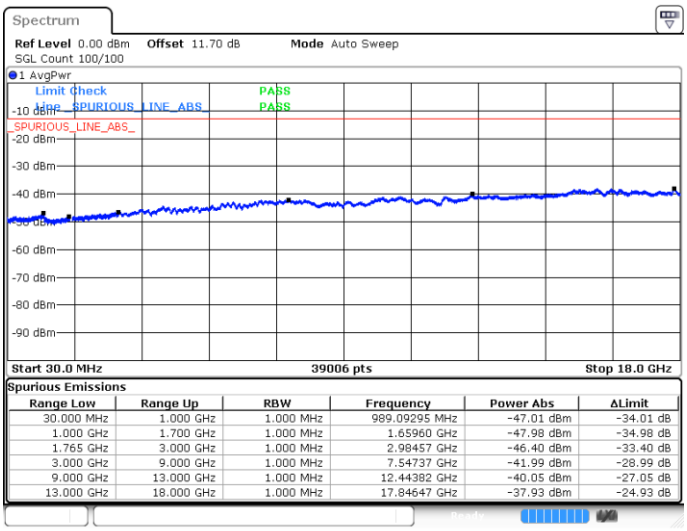
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-47.19 dBm	-34.19 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64560 GHz	-48.12 dBm	-35.12 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97922 GHz	-46.57 dBm	-33.57 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55637 GHz	-41.88 dBm	-28.88 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41982 GHz	-40.11 dBm	-27.11 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85230 GHz	-37.87 dBm	-24.87 dB

Date: 24.FEB.2020 14:19:53

LTE Band 4 / 20MHz

Lowest Channel / QPSK

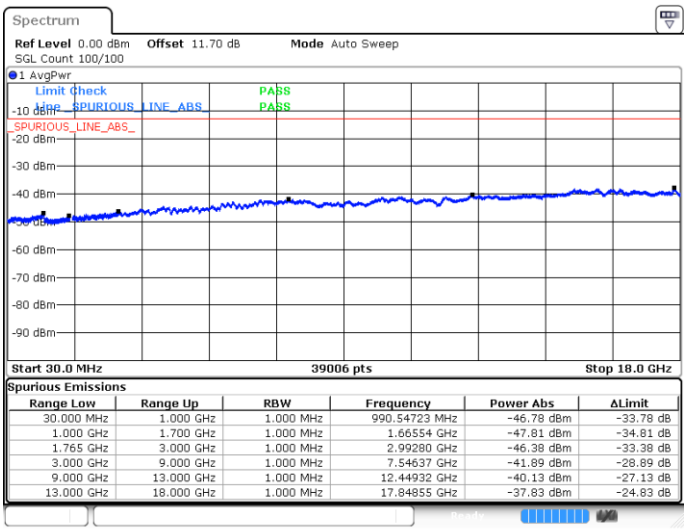


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	989.09295 MHz	-47.01 dBm	-34.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65960 GHz	-47.98 dBm	-34.98 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98457 GHz	-46.40 dBm	-33.40 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54737 GHz	-41.99 dBm	-28.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44382 GHz	-40.05 dBm	-27.05 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84647 GHz	-37.93 dBm	-24.93 dB

Date: 24.FEB.2020 14:34:11

Lowest Channel / 16QAM



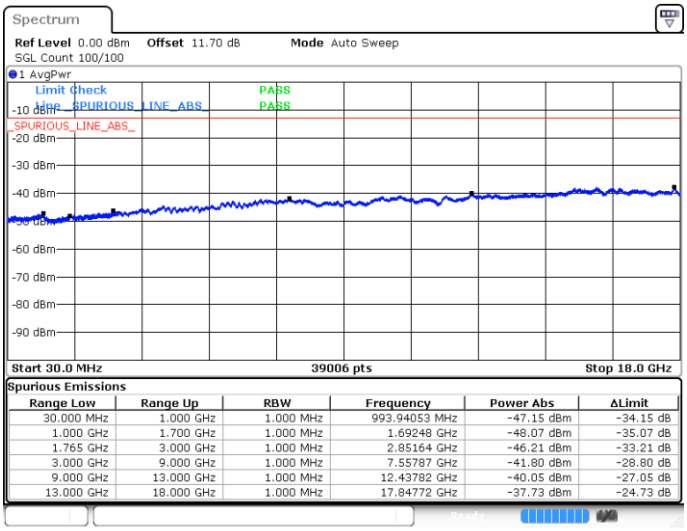
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-46.78 dBm	-33.78 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66554 GHz	-47.81 dBm	-34.81 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.99280 GHz	-46.38 dBm	-33.38 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.54637 GHz	-41.89 dBm	-28.89 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.44932 GHz	-40.13 dBm	-27.13 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84855 GHz	-37.83 dBm	-24.83 dB

Date: 24.FEB.2020 14:34:58

LTE Band 4 / 20MHz

Middle Channel / QPSK

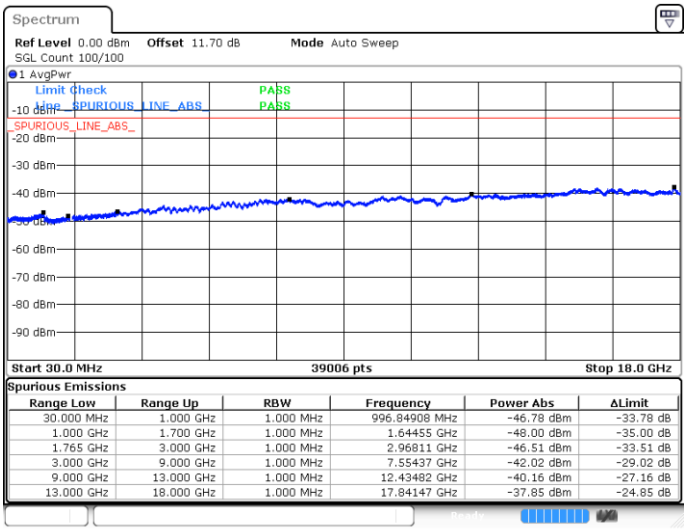


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	993.94053 MHz	-47.15 dBm	-34.15 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69248 GHz	-48.07 dBm	-35.07 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.85164 GHz	-46.21 dBm	-33.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55787 GHz	-41.80 dBm	-28.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43782 GHz	-40.05 dBm	-27.05 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84772 GHz	-37.73 dBm	-24.73 dB

Date: 24.FEB.2020 14:24:24

Middle Channel / 16QAM

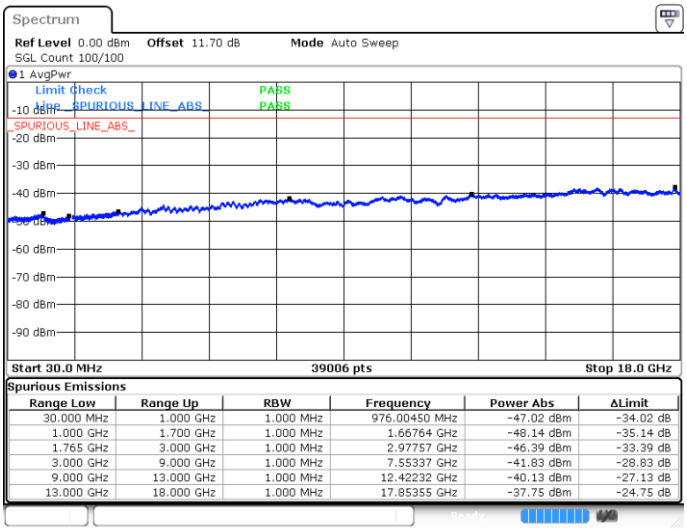


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	996.84908 MHz	-46.78 dBm	-33.78 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64455 GHz	-48.00 dBm	-35.00 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.96811 GHz	-46.51 dBm	-33.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55437 GHz	-42.02 dBm	-29.02 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.43482 GHz	-40.16 dBm	-27.16 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.84147 GHz	-37.85 dBm	-24.85 dB

Date: 24.FEB.2020 14:25:11

Highest Channel / QPSK

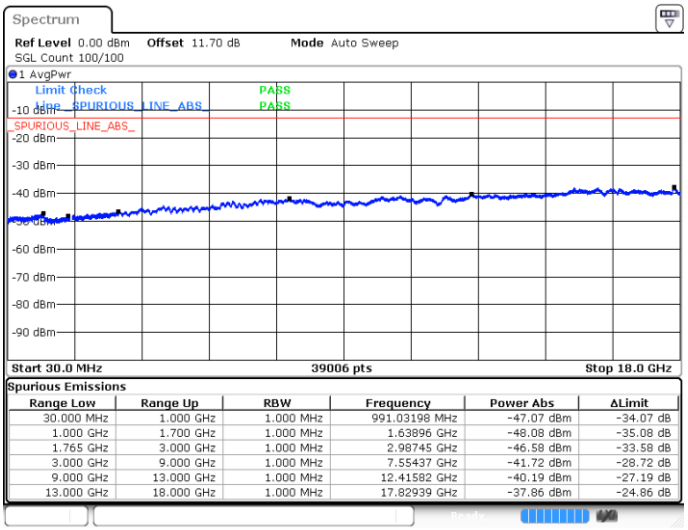


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.00450 MHz	-47.02 dBm	-34.02 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66764 GHz	-48.14 dBm	-35.14 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.97757 GHz	-46.39 dBm	-33.39 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55337 GHz	-41.83 dBm	-28.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.42232 GHz	-40.13 dBm	-27.13 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.85355 GHz	-37.75 dBm	-24.75 dB

Date: 24.FEB.2020 14:43:51

Highest Channel / 16QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	991.03198 MHz	-47.07 dBm	-34.07 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.63896 GHz	-48.08 dBm	-35.08 dB
1.765 GHz	3.000 GHz	1.000 MHz	2.98745 GHz	-46.58 dBm	-33.58 dB
3.000 GHz	9.000 GHz	1.000 MHz	7.55437 GHz	-41.72 dBm	-28.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.41582 GHz	-40.19 dBm	-27.19 dB
13.000 GHz	18.000 GHz	1.000 MHz	17.82939 GHz	-37.86 dBm	-24.86 dB

Date: 24.FEB.2020 14:44:37

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	0.0063	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0014	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0068	
0	Normal Voltage	0.0002	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0057	

Note:

1. Normal Voltage =5.00 V.；Battery End Point (BEP) =4.75 V.；Maximum Voltage =5.25 V.

2. The frequency fundamental emissions stay within the authorized frequency block.

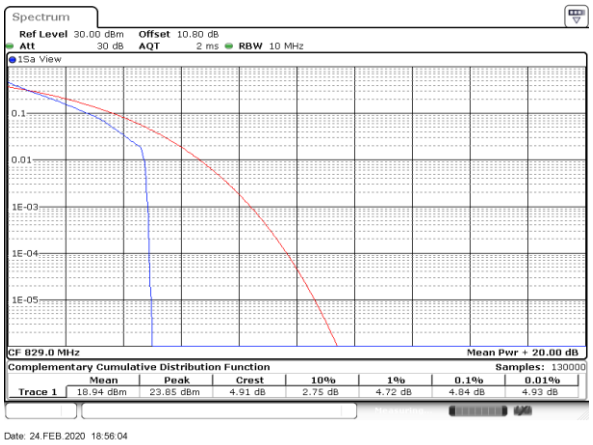
LTE Band 5

Peak-to-Average Ratio

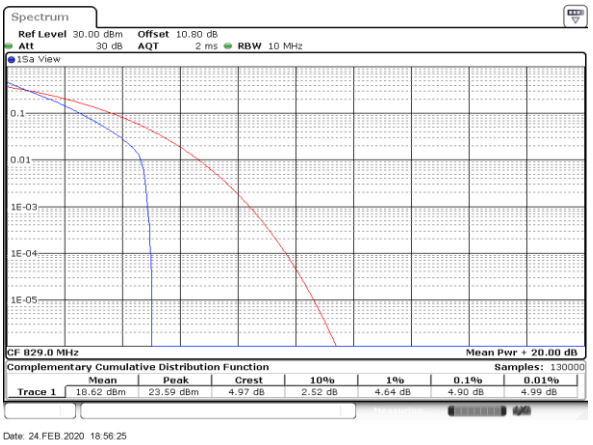
Mode	LTE Band 5 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.84	4.90	5.59	5.77	PASS
Middle CH	4.84	4.93	5.51	6.03	
Highest CH	6.26	5.04	6.09	7.01	

LTE Band 5 / 10MHz / QPSK

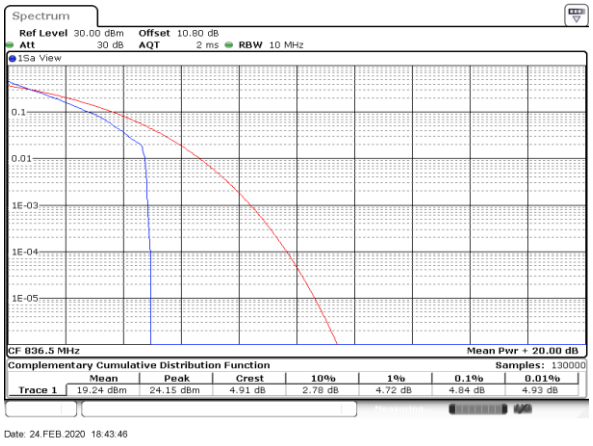
Lowest Channel / 1RB



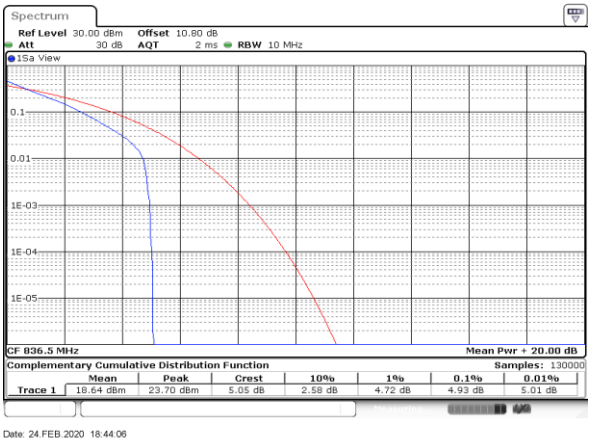
Lowest Channel / Full RB



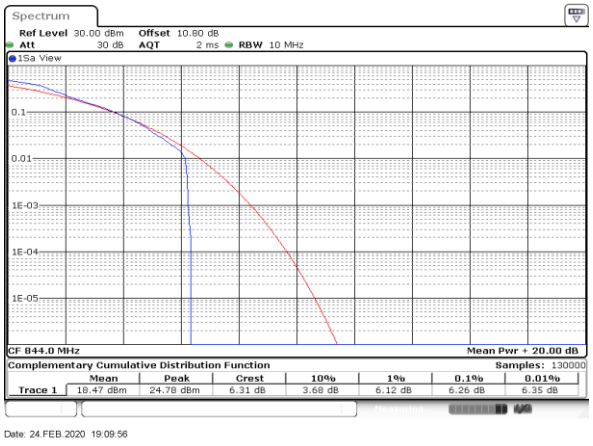
Middle Channel / 1RB



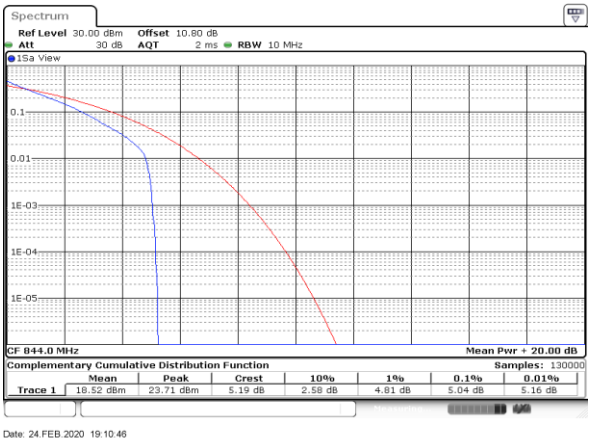
Middle Channel / Full RB



Highest Channel / 1RB

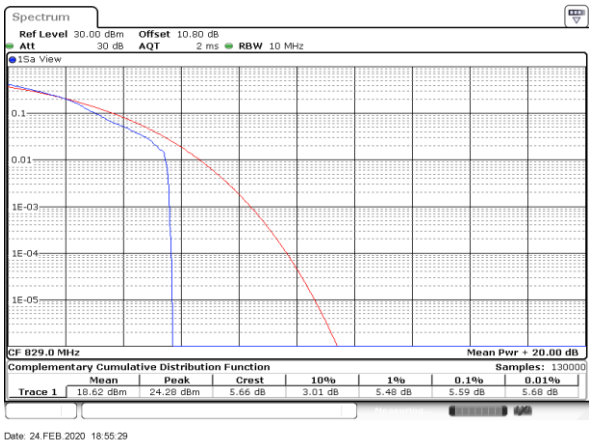


Highest Channel / Full RB

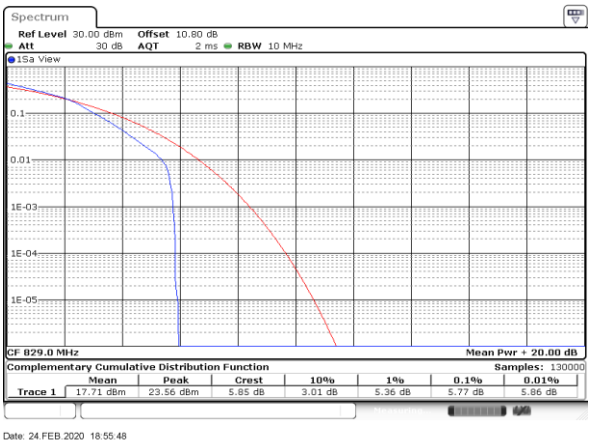


LTE Band 5 / 10MHz / 16QAM

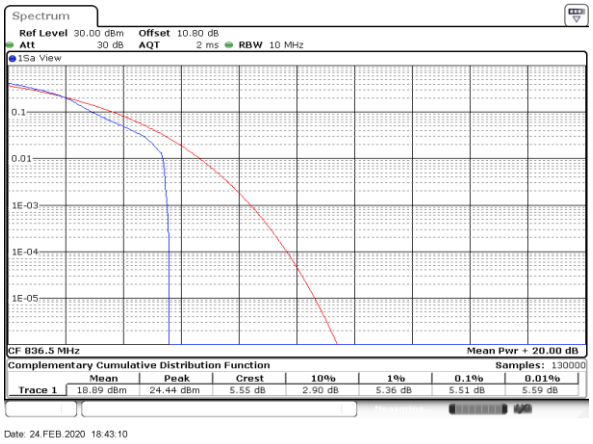
Lowest Channel / 1RB



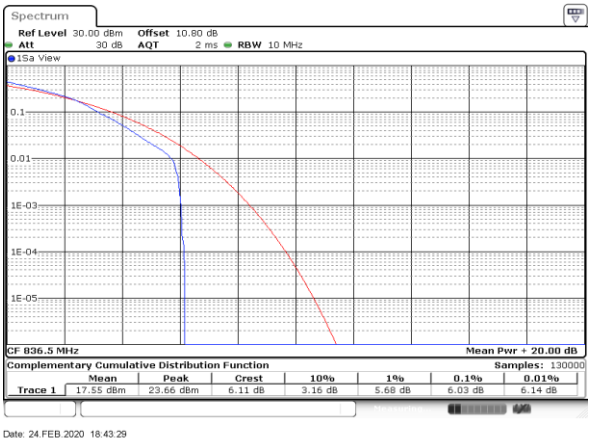
Lowest Channel / Full RB



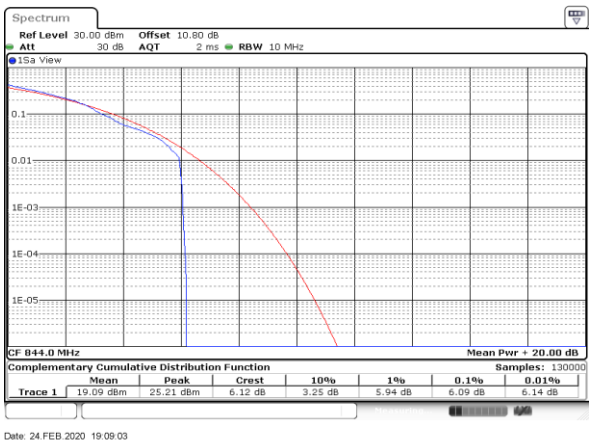
Middle Channel / 1RB



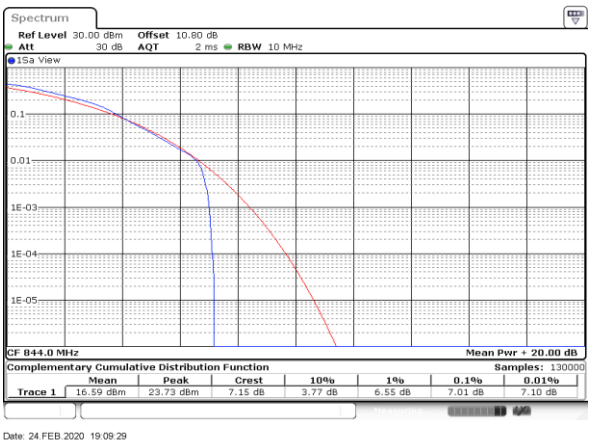
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB

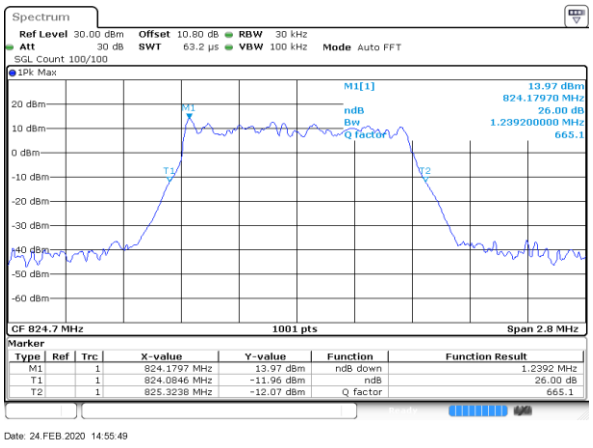


26dB Bandwidth

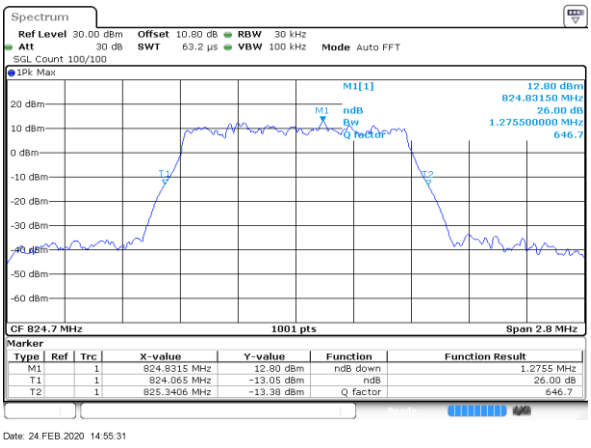
Mode	LTE Band 5 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.24	1.28	1.44	1.53	1.31	1.49	2.28	1.78	-	-	-	-
Middle CH	1.26	1.21	1.55	1.47	1.37	1.64	2.10	2.06	-	-	-	-
Highest CH	1.20	1.27	1.51	1.52	1.28	1.45	2.12	2.00	-	-	-	-

LTE Band 5

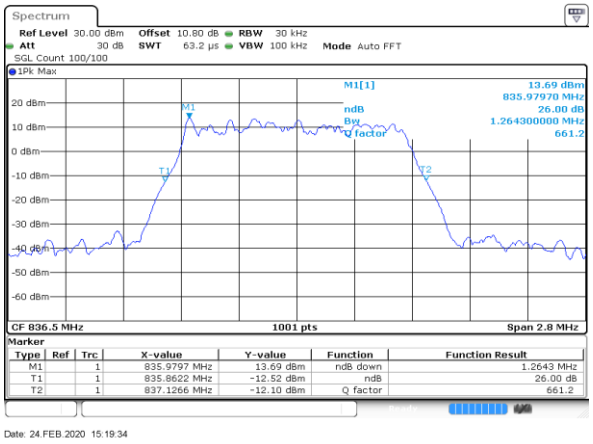
Lowest Channel / 1.4MHz / QPSK



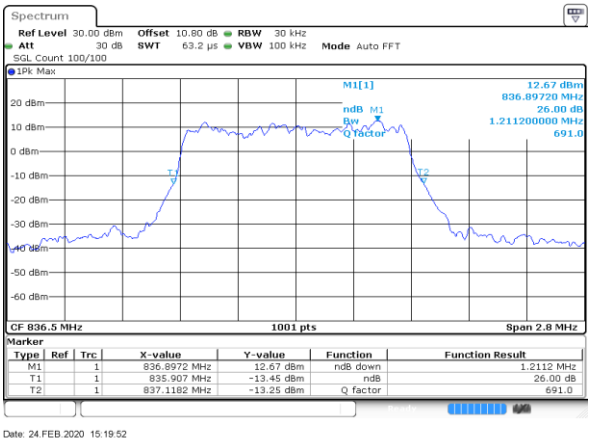
Lowest Channel / 1.4MHz / 16QAM



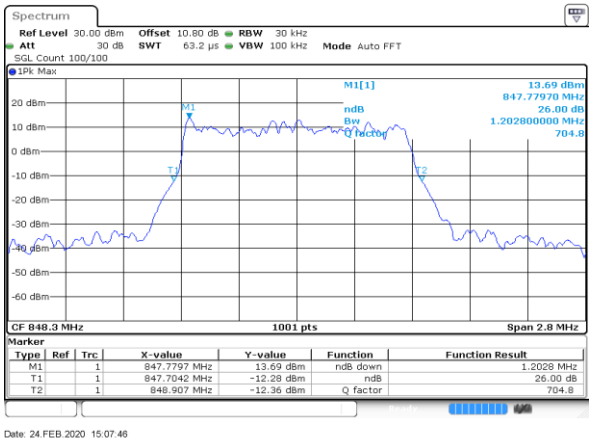
Middle Channel / 1.4MHz / QPSK



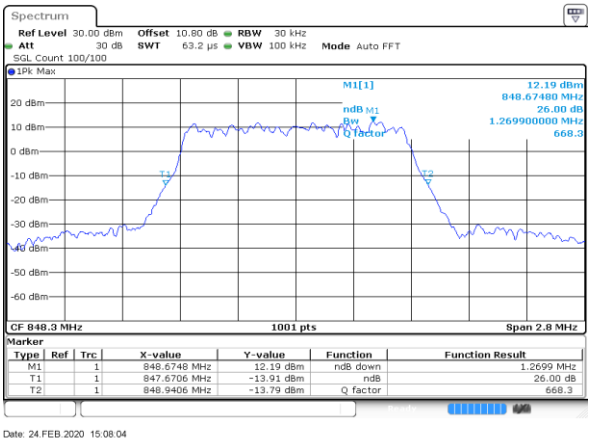
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

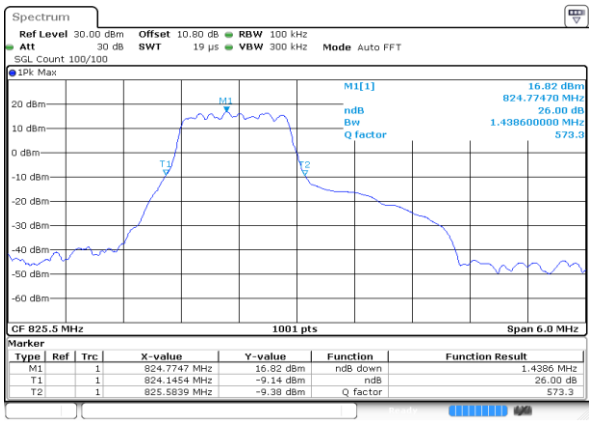


Highest Channel / 1.4MHz / 16QAM



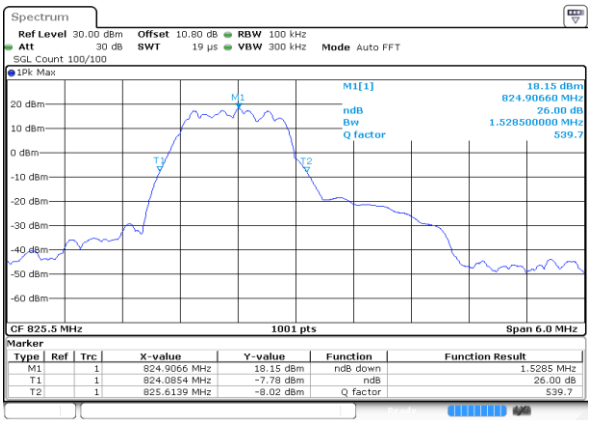
LTE Band 5

Lowest Channel / 3MHz / QPSK



Date: 24.FEB.2020 15:31:03

Lowest Channel / 3MHz / 16QAM



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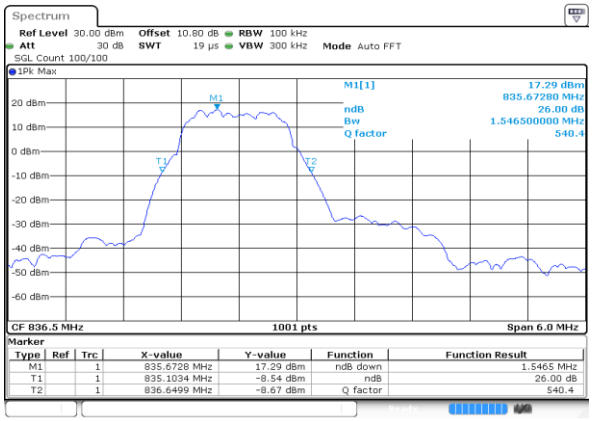
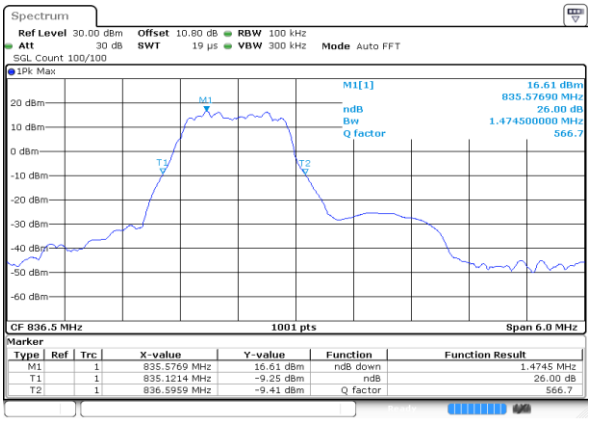
Middle Channel / 3MHz / QPSK



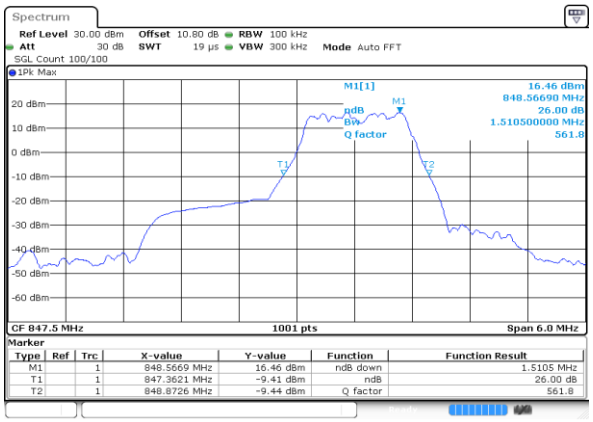
Date: 24.FEB.2020 15:22:55

Middle Channel /3MHz / 16QAM



Date: 24.FEB.2020 15:23:12

Highest Channel /3MHz / QPSK



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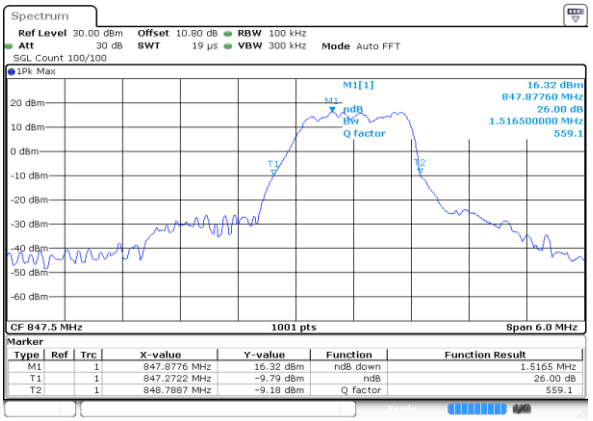
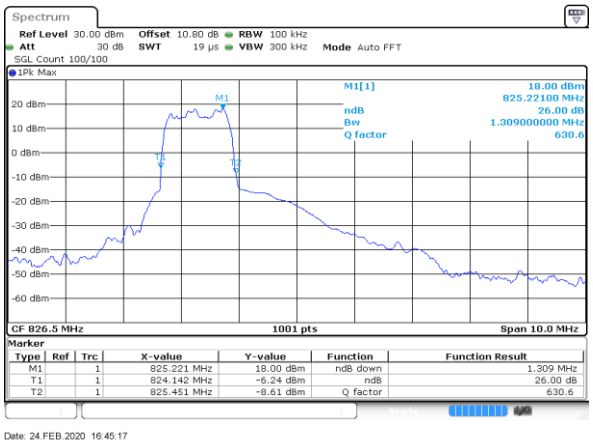
Highest Channel /3MHz / 16QAM



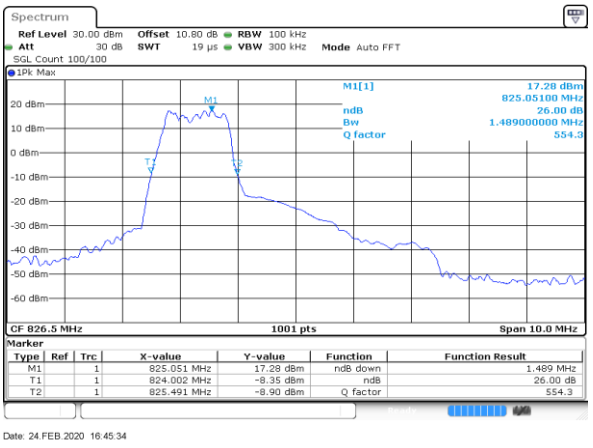
Date: 24.FEB.2020 15:46:20

LTE Band 5

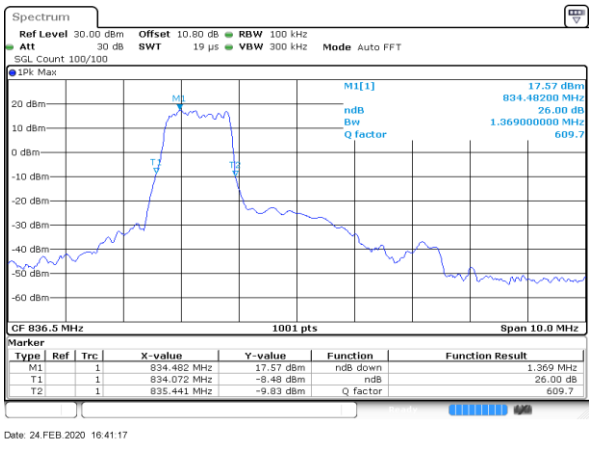
Lowest Channel / 5MHz / QPSK



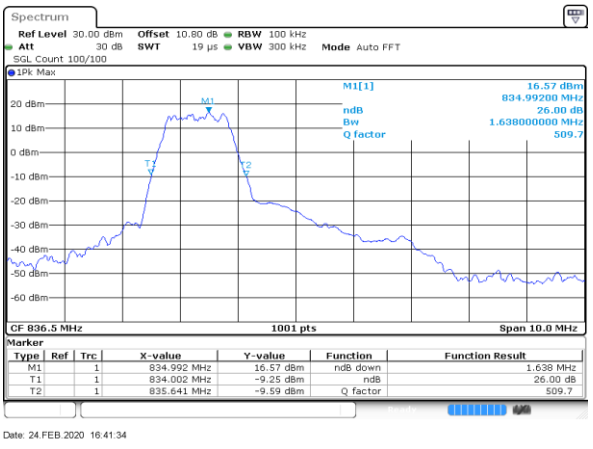
Lowest Channel / 5MHz / 16QAM



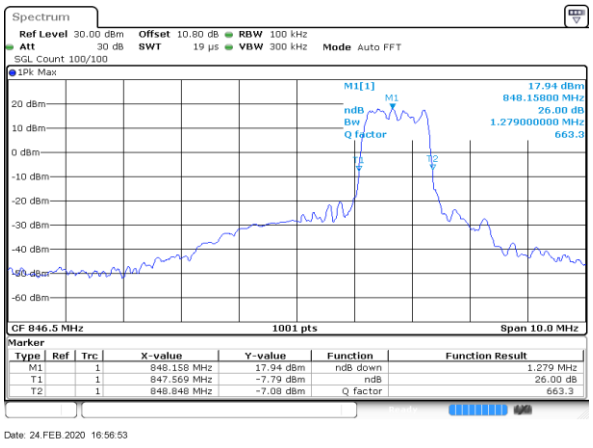
Middle Channel / 5MHz / QPSK



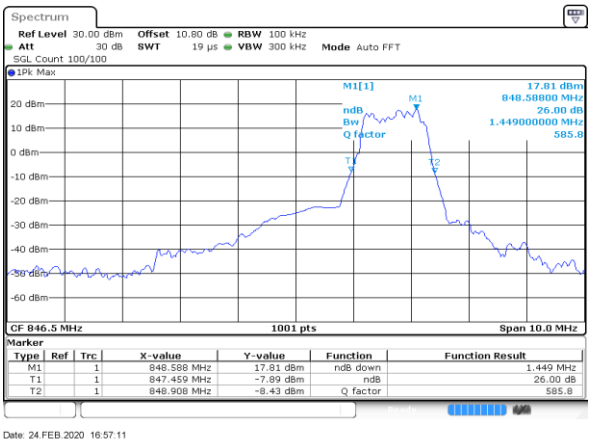
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK

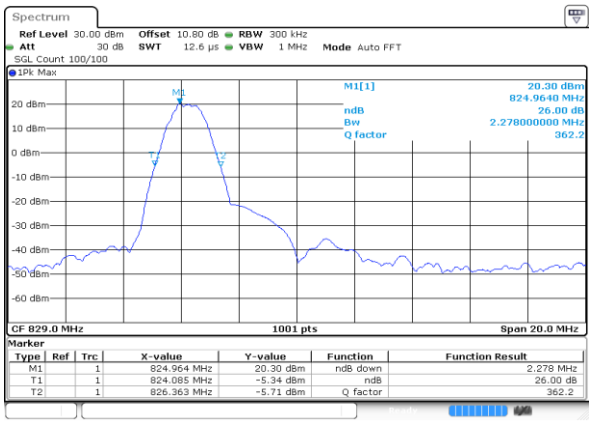


Highest Channel / 5MHz / 16QAM

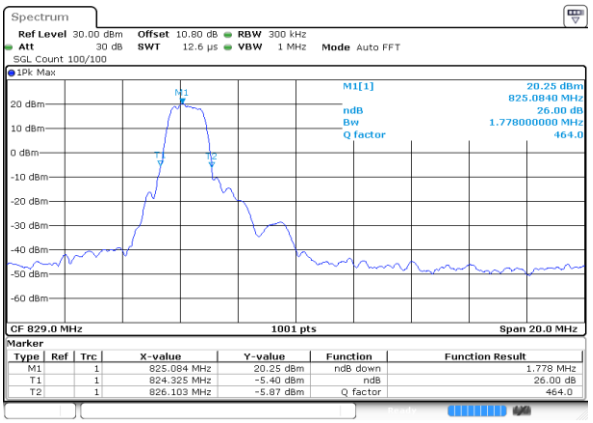


LTE Band 5

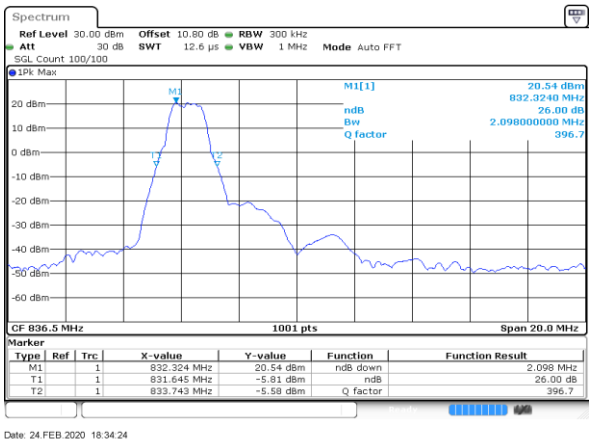
Lowest Channel / 10MHz / QPSK



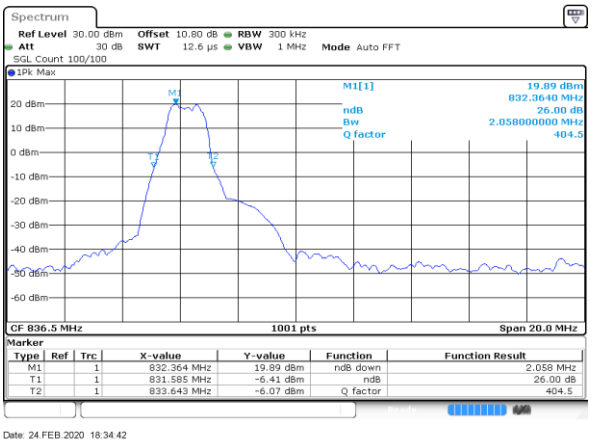
Lowest Channel / 10MHz / 16QAM



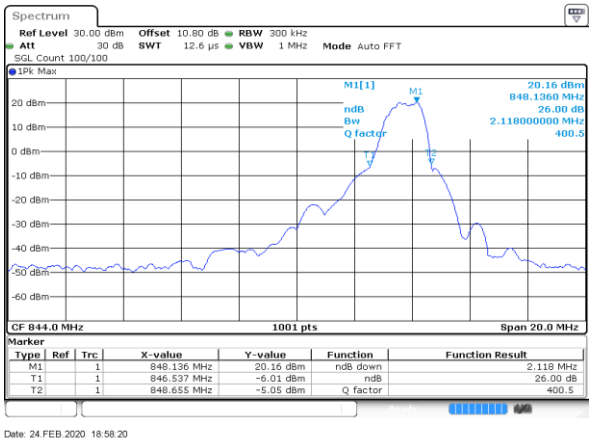
Middle Channel / 10MHz / QPSK



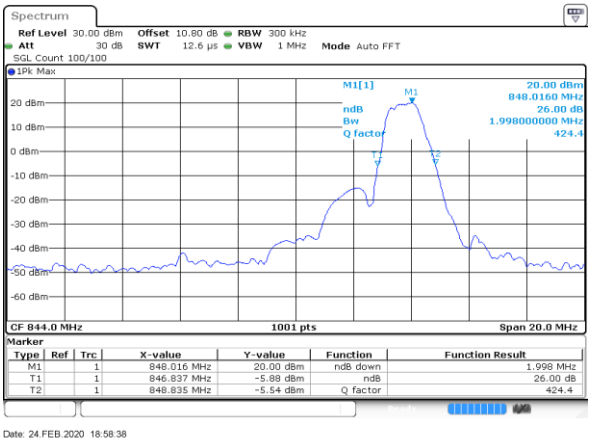
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

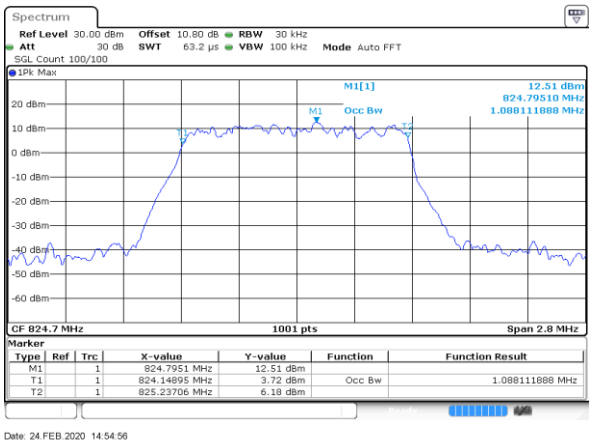


Occupied Bandwidth

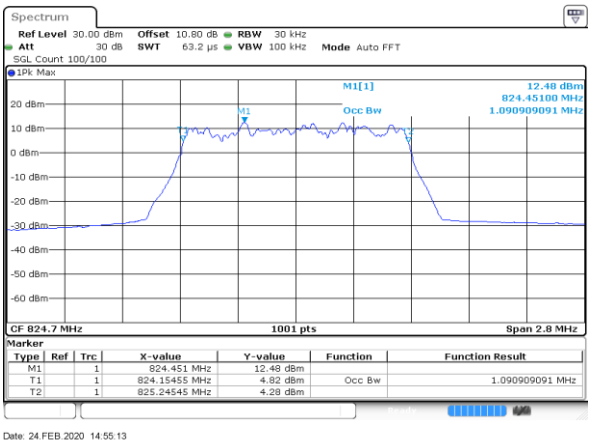
Mode	LTE Band 5 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	1.15	1.14	1.19	1.19	1.40	1.44	-	-	-	-
Middle CH	1.09	1.08	1.14	1.16	1.15	1.20	1.48	1.46	-	-	-	-
Highest CH	1.09	1.09	1.14	1.19	1.16	1.21	1.52	1.54	-	-	-	-

LTE Band 5

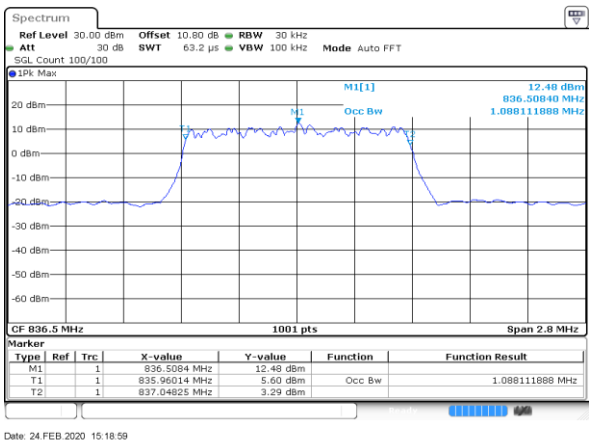
Lowest Channel / 1.4MHz / QPSK



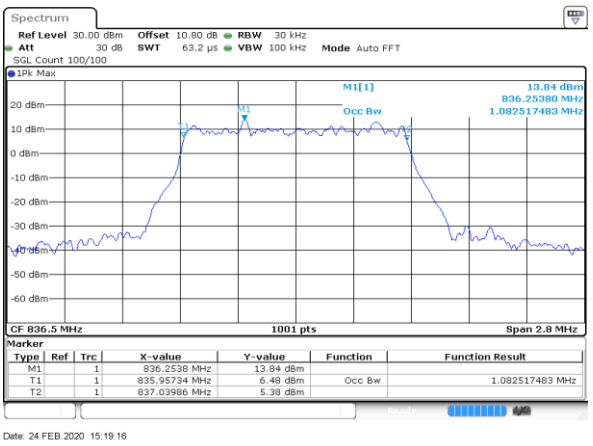
Lowest Channel / 1.4MHz / 16QAM



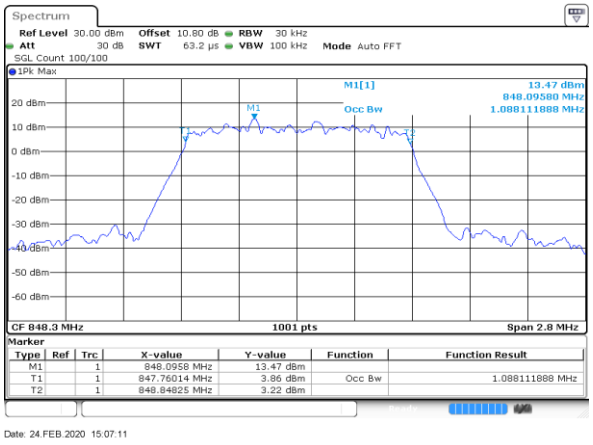
Middle Channel / 1.4MHz / QPSK



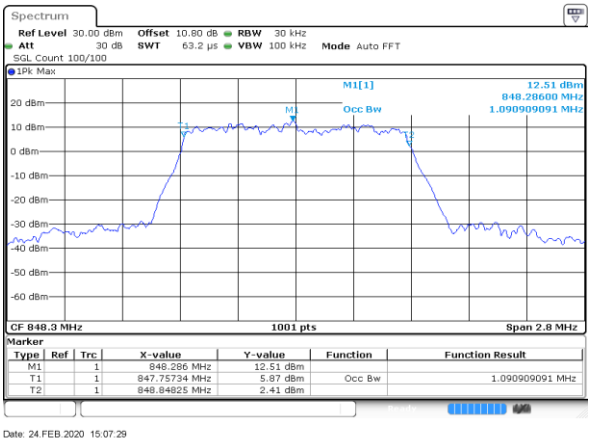
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK

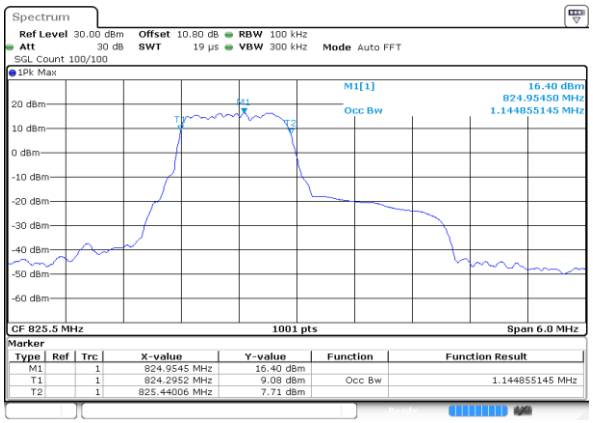


Highest Channel / 1.4MHz / 16QAM

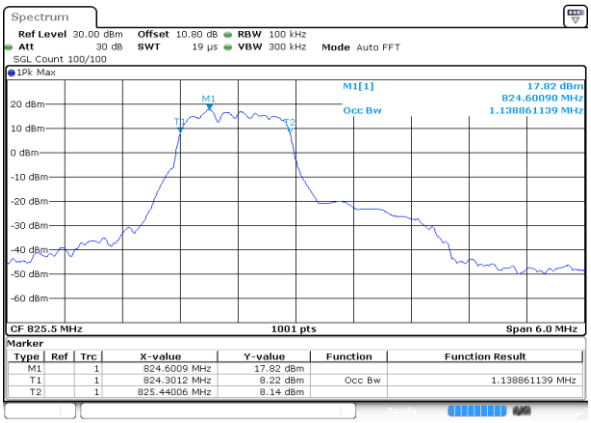


LTE Band 5

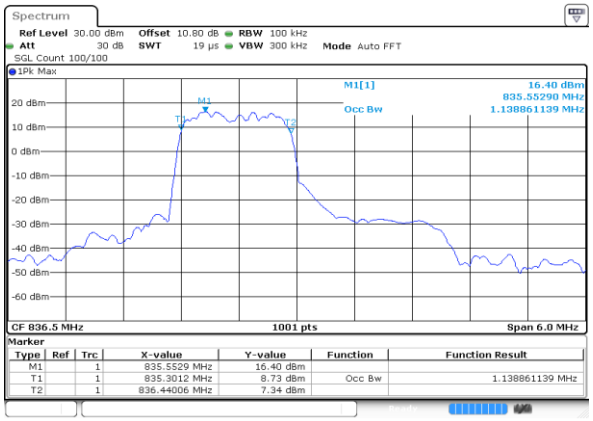
Lowest Channel / 3MHz / QPSK



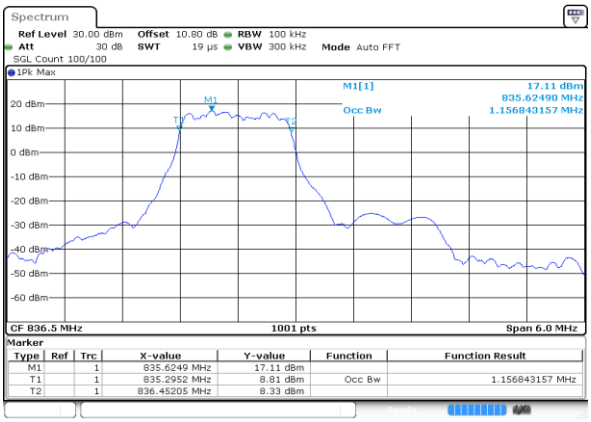
Lowest Channel / 3MHz / 16QAM



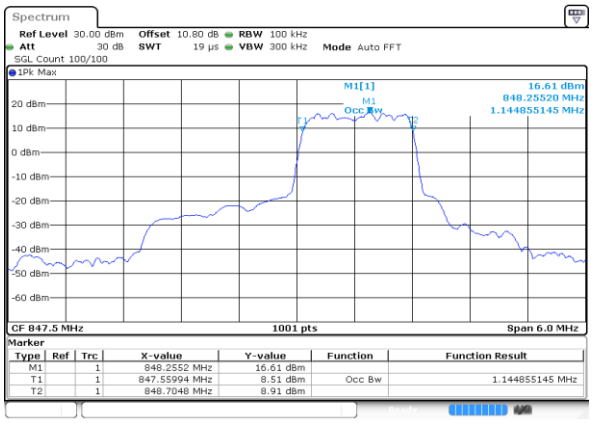
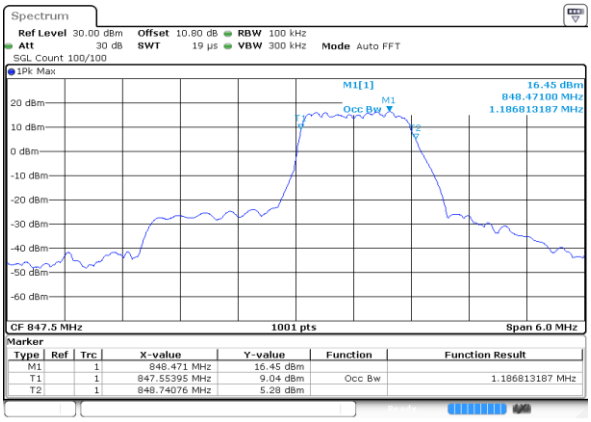
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



Highest Channel / 3MHz / 16QAM