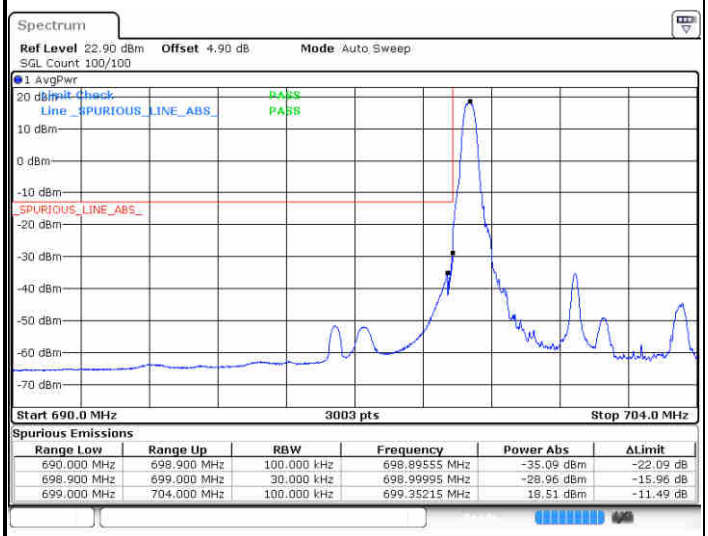
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB

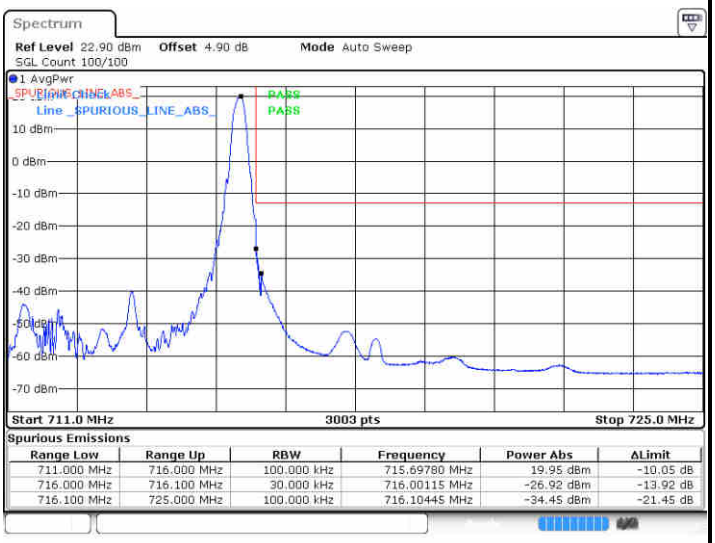


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.09 dBm	-22.09 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99995 MHz	-28.96 dBm	-15.96 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.35215 MHz	18.51 dBm	-11.49 dB

Date: 21.OCT.2019 19:35:13

Highest Band Edge / 1 RB

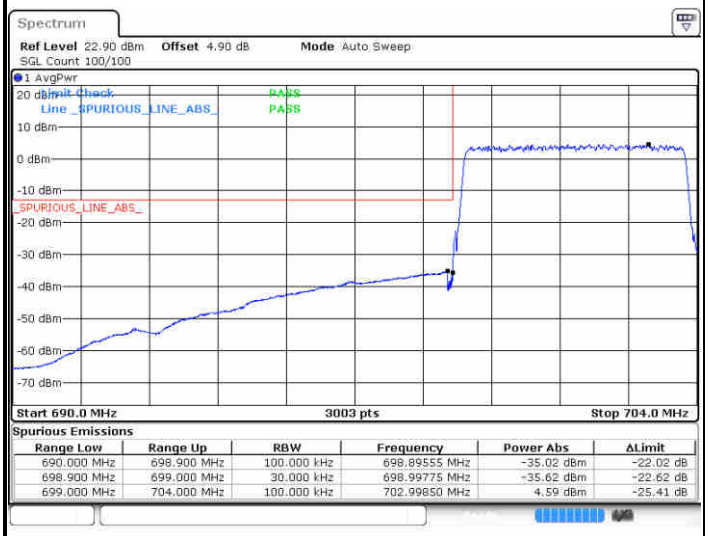


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.69780 MHz	19.95 dBm	-10.05 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00115 MHz	-26.92 dBm	-13.92 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.45 dBm	-21.45 dB

Date: 21.OCT.2019 19:30:35

Lowest Band Edge / Full RB

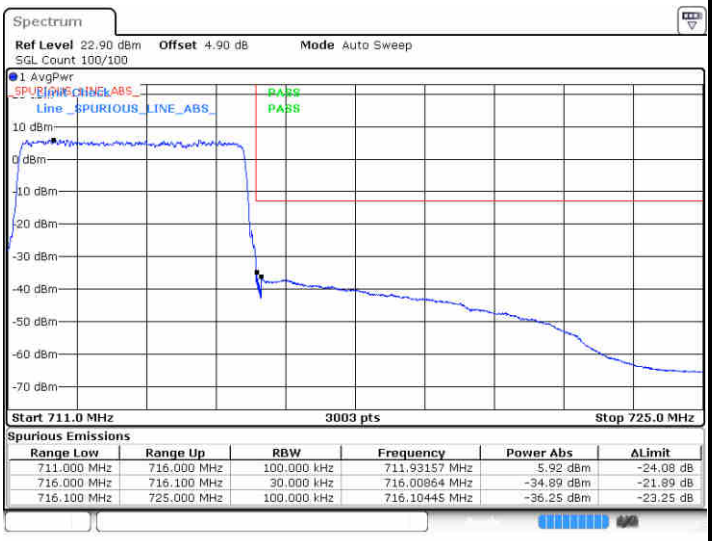


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.02 dBm	-22.02 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-35.62 dBm	-22.62 dB
699.000 MHz	704.000 MHz	100.000 kHz	702.99850 MHz	4.59 dBm	-25.41 dB

Date: 21.OCT.2019 19:36:21

Highest Band Edge / Full RB



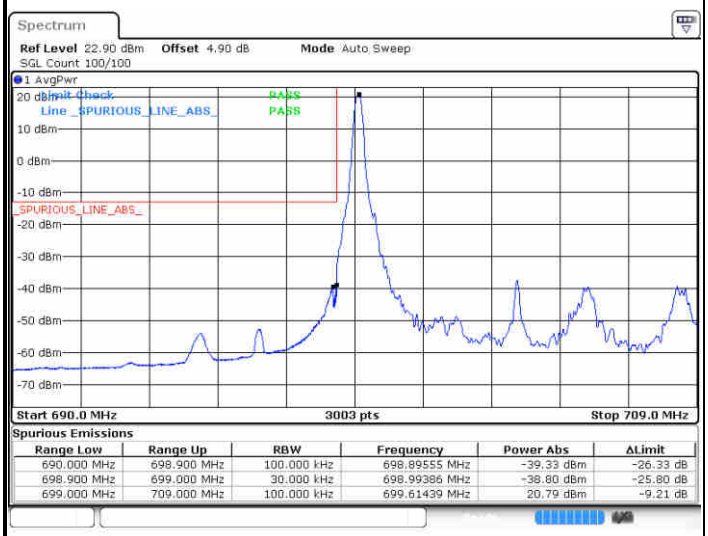
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	711.93157 MHz	5.92 dBm	-24.08 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00864 MHz	-34.89 dBm	-21.89 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-36.25 dBm	-23.25 dB

Date: 21.OCT.2019 19:29:26

LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB

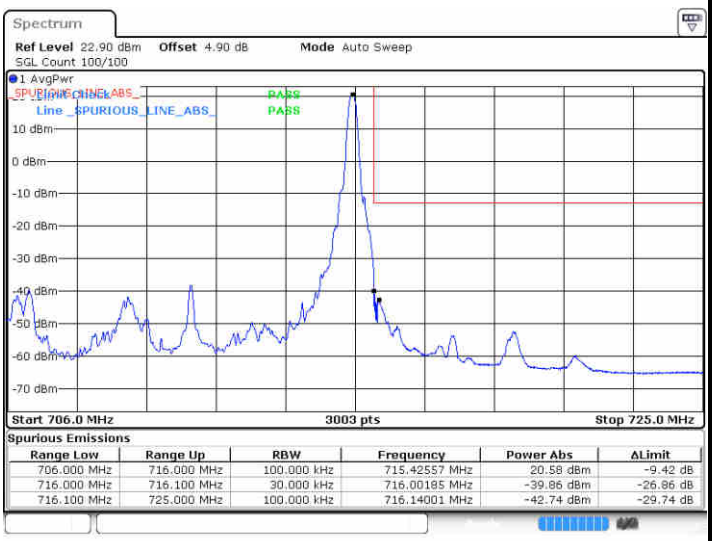


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-39.33 dBm	-26.33 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99386 MHz	-38.80 dBm	-25.80 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.61439 MHz	20.79 dBm	-9.21 dB

Date: 21.OCT.2019 19:03:56

Highest Band Edge / 1 RB

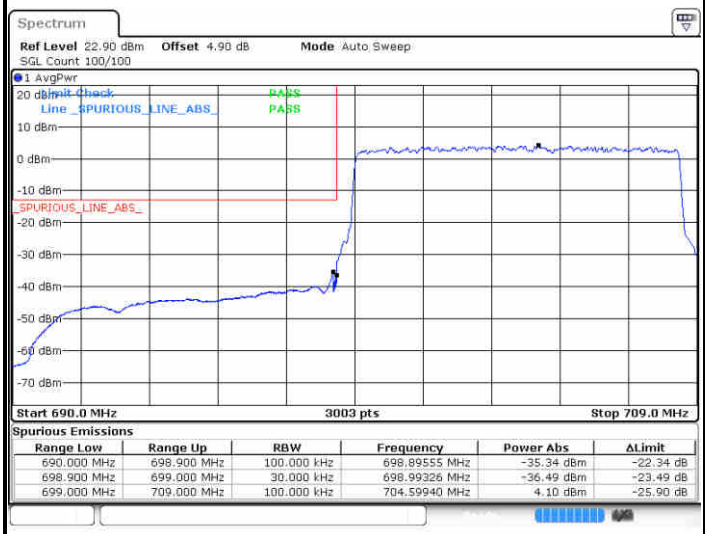


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.42557 MHz	20.58 dBm	-9.42 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00185 MHz	-39.86 dBm	-26.86 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14001 MHz	-42.74 dBm	-29.74 dB

Date: 21.OCT.2019 19:09:39

Lowest Band Edge / Full RB

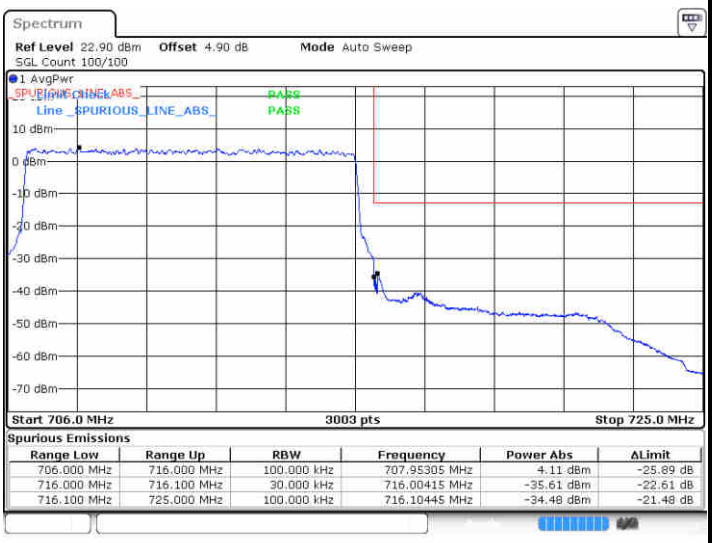


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-35.34 dBm	-22.34 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99326 MHz	-36.49 dBm	-23.49 dB
699.000 MHz	709.000 MHz	100.000 kHz	704.59940 MHz	4.10 dBm	-25.90 dB

Date: 21.OCT.2019 19:05:05

Highest Band Edge / Full RB



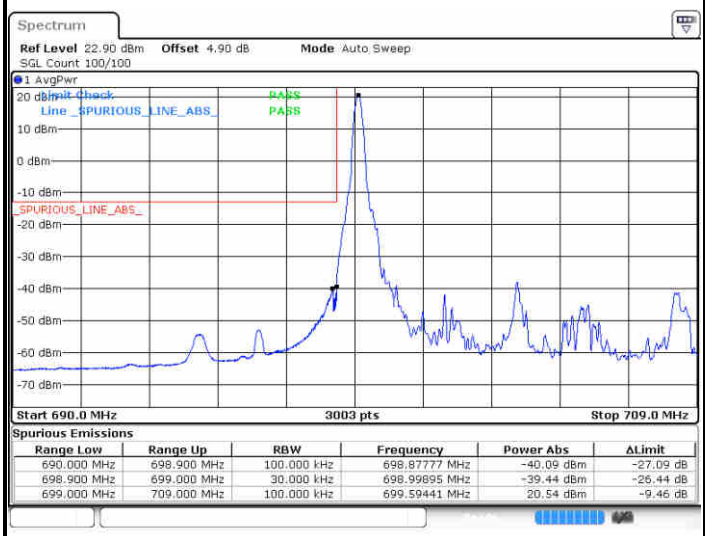
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	707.95305 MHz	4.11 dBm	-25.89 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00415 MHz	-35.61 dBm	-22.61 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-34.48 dBm	-21.48 dB

Date: 21.OCT.2019 19:08:31

LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

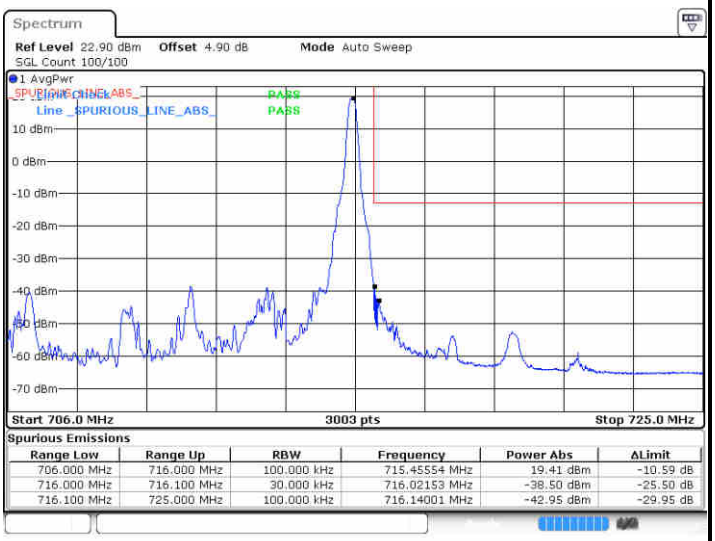


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-40.09 dBm	-27.09 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99895 MHz	-39.44 dBm	-26.44 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.59441 MHz	20.54 dBm	-9.46 dB

Date: 21.OCT.2019 19:02:48

Highest Band Edge / 1 RB

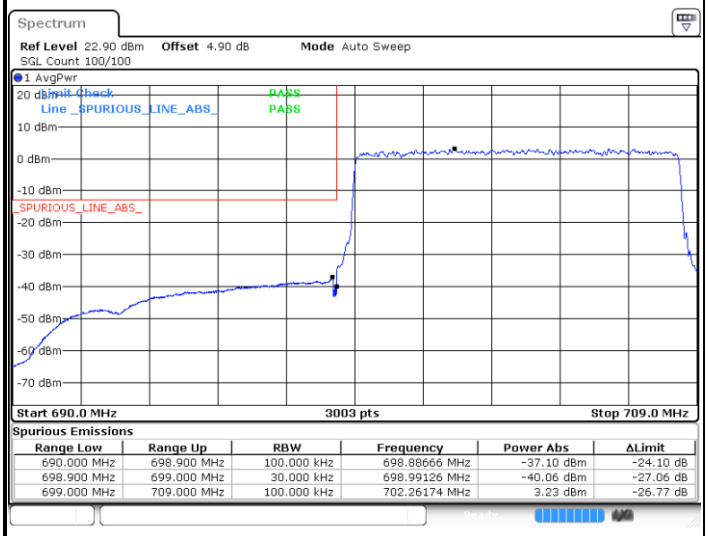


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.45554 MHz	19.41 dBm	-10.59 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.02153 MHz	-38.50 dBm	-25.50 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14001 MHz	-42.95 dBm	-29.95 dB

Date: 21.OCT.2019 19:10:48

Lowest Band Edge / Full RB

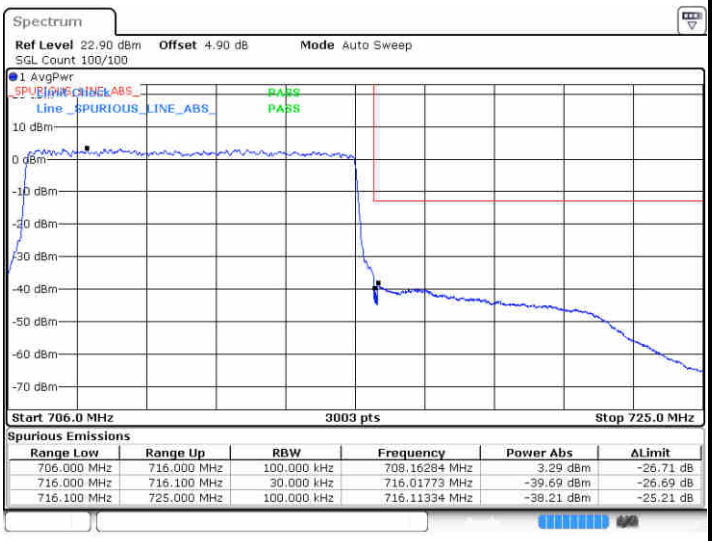


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-37.10 dBm	-24.10 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99126 MHz	-40.06 dBm	-27.06 dB
699.000 MHz	709.000 MHz	100.000 kHz	702.26174 MHz	3.23 dBm	-26.77 dB

Date: 21.OCT.2019 19:06:13

Highest Band Edge / Full RB



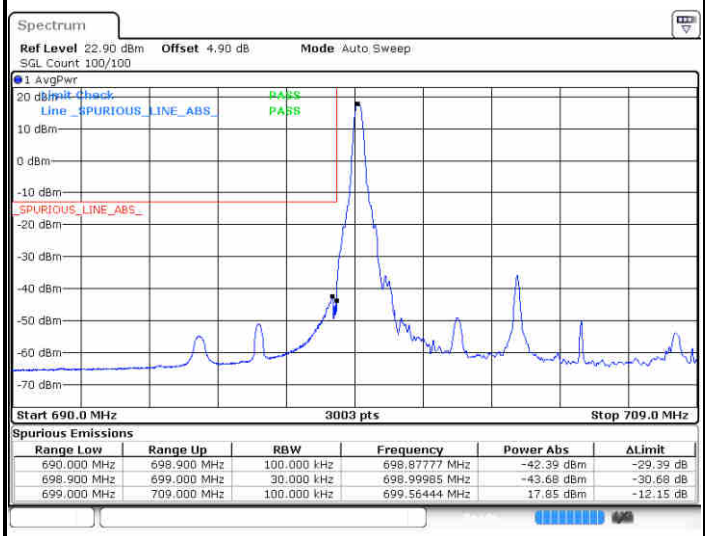
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	708.16284 MHz	3.29 dBm	-26.71 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01773 MHz	-39.69 dBm	-26.69 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-38.21 dBm	-25.21 dB

Date: 21.OCT.2019 19:07:22

LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

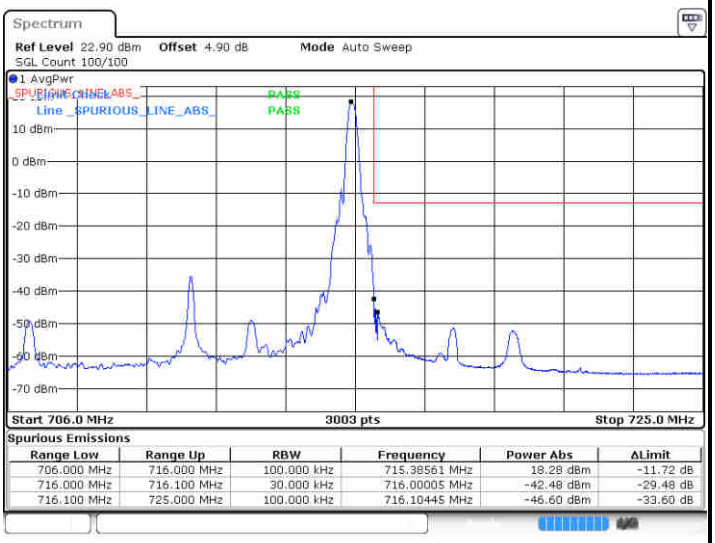


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-42.39 dBm	-29.39 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99985 MHz	-43.68 dBm	-30.68 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.56444 MHz	17.85 dBm	-12.15 dB

Date: 21.OCT.2019 19:46:09

Highest Band Edge / 1 RB

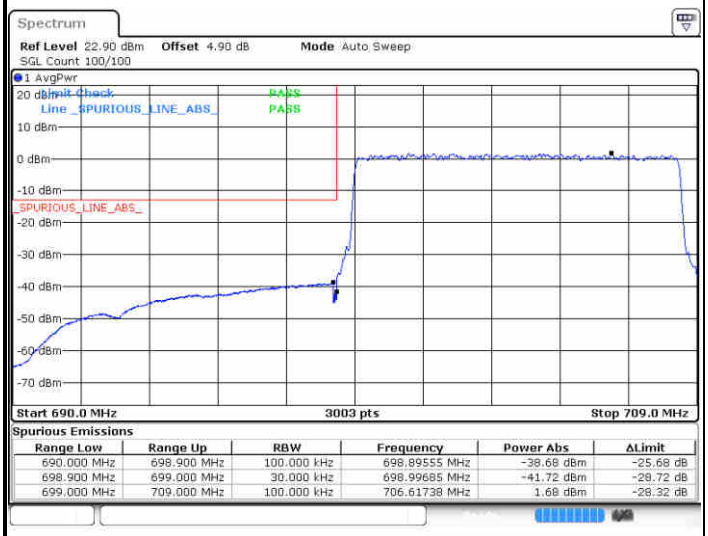


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	715.38561 MHz	18.28 dBm	-11.72 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-42.48 dBm	-29.48 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-46.60 dBm	-33.60 dB

Date: 21.OCT.2019 19:45:00

Lowest Band Edge / Full RB

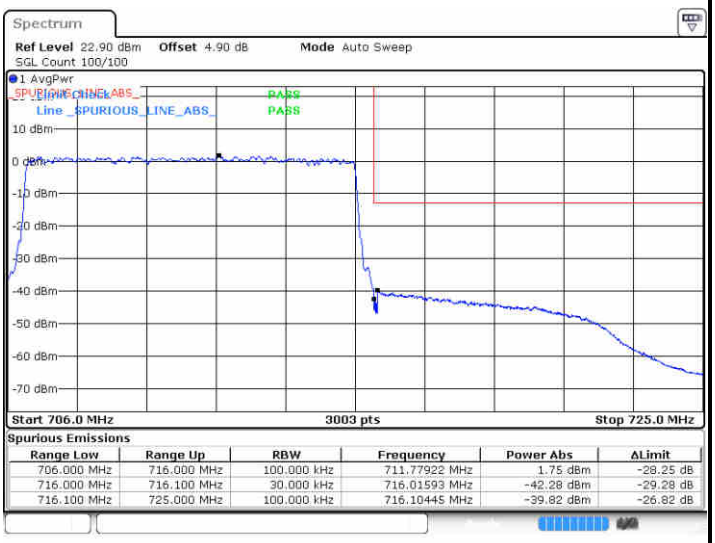


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-38.68 dBm	-25.68 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99685 MHz	-41.72 dBm	-28.72 dB
699.000 MHz	709.000 MHz	100.000 kHz	706.61738 MHz	1.68 dBm	-28.32 dB

Date: 21.OCT.2019 19:47:17

Highest Band Edge / Full RB



Spurious Emissions

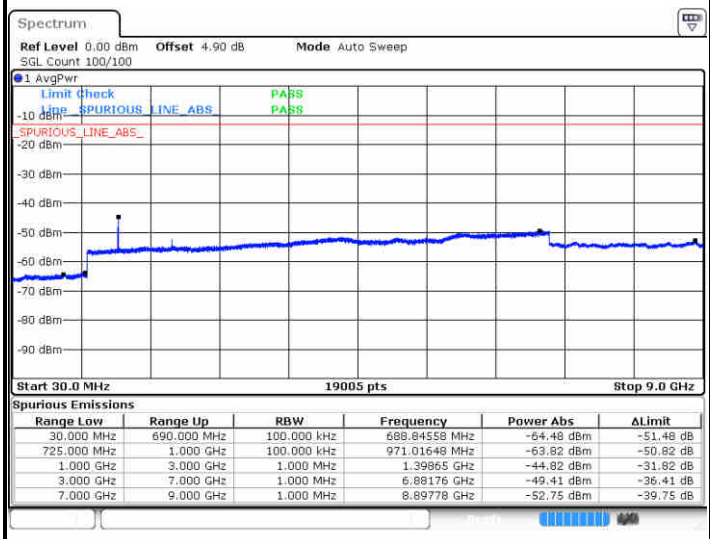
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
706.000 MHz	716.000 MHz	100.000 kHz	711.77922 MHz	1.75 dBm	-28.25 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.01593 MHz	-42.28 dBm	-29.28 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-39.82 dBm	-26.82 dB

Date: 21.OCT.2019 19:43:51

Conducted Spurious Emission

LTE Band 12 / 1.4MHz

Lowest Channel / QPSK

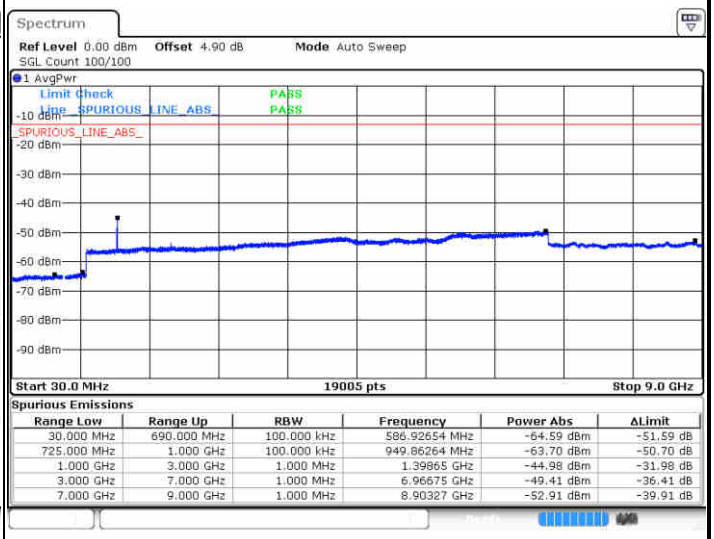


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.84558 MHz	-64.48 dBm	-51.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	971.01648 MHz	-63.82 dBm	-50.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.82 dBm	-31.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88176 GHz	-49.41 dBm	-36.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89778 GHz	-52.75 dBm	-39.75 dB

Date: 21.OCT.2019 18:08:35

Lowest Channel / 16QAM

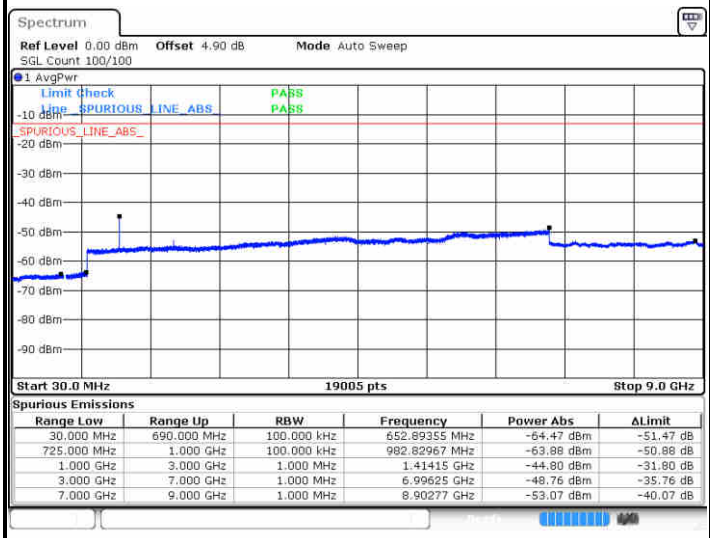


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	586.92654 MHz	-64.59 dBm	-51.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	949.86264 MHz	-63.70 dBm	-50.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.98 dBm	-31.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96675 GHz	-49.41 dBm	-36.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90327 GHz	-52.91 dBm	-39.91 dB

Date: 21.OCT.2019 18:09:28

Middle Channel / QPSK

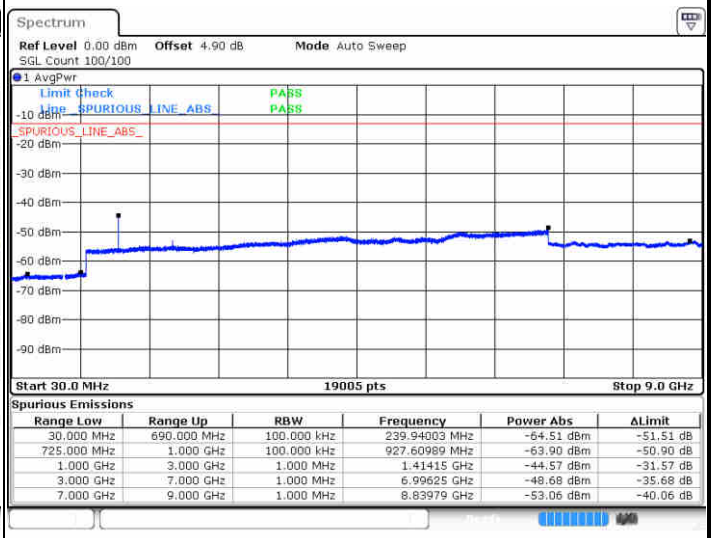


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	652.89355 MHz	-64.47 dBm	-51.47 dB
725.000 MHz	1.000 GHz	100.000 kHz	982.82967 MHz	-63.88 dBm	-50.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-44.80 dBm	-31.80 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-48.76 dBm	-35.76 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90277 GHz	-53.07 dBm	-40.07 dB

Date: 21.OCT.2019 18:04:56

Middle Channel / 16QAM



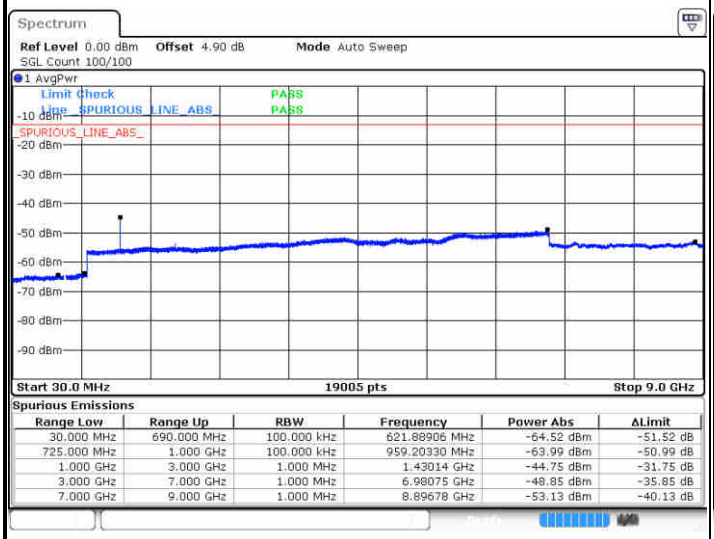
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	239.94003 MHz	-64.51 dBm	-51.51 dB
725.000 MHz	1.000 GHz	100.000 kHz	927.60989 MHz	-63.90 dBm	-50.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-44.57 dBm	-31.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-48.68 dBm	-35.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.83979 GHz	-53.06 dBm	-40.06 dB

Date: 21.OCT.2019 18:10:22

LTE Band 12 / 1.4MHz

Highest Channel / QPSK

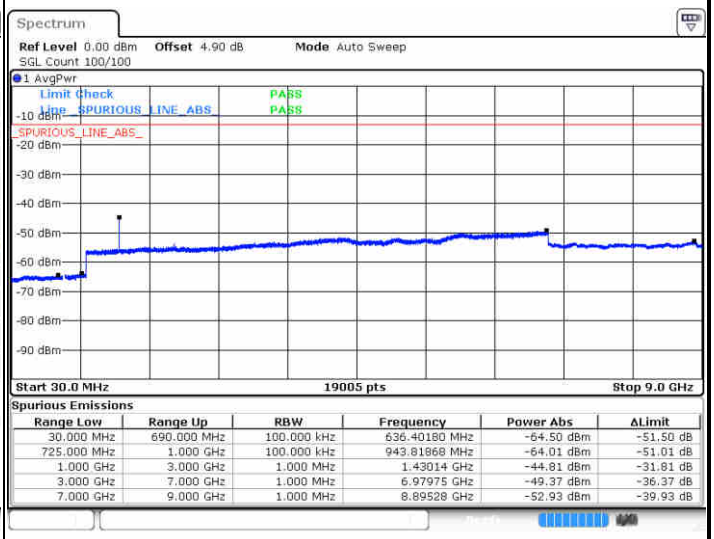


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	621.88906 MHz	-64.52 dBm	-51.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	959.20330 MHz	-63.99 dBm	-50.99 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-44.75 dBm	-31.75 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98075 GHz	-48.85 dBm	-35.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89678 GHz	-53.13 dBm	-40.13 dB

Date: 21.OCT.2019 18:11:15

Highest Channel / 16QAM



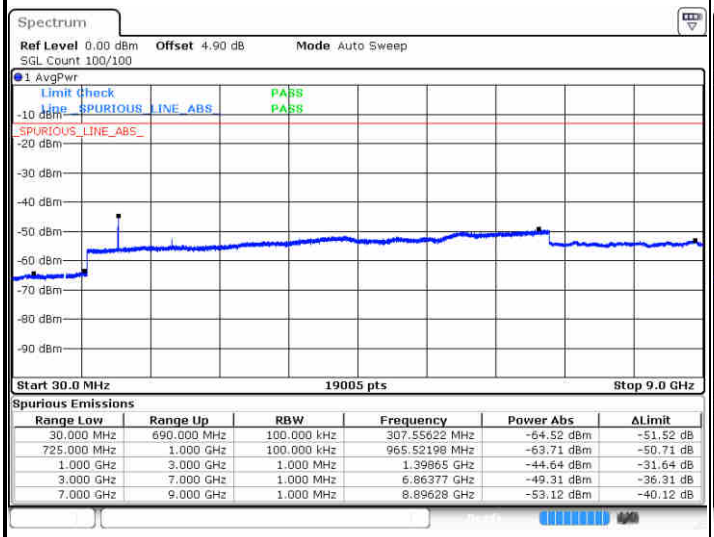
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	636.40180 MHz	-64.50 dBm	-51.50 dB
725.000 MHz	1.000 GHz	100.000 kHz	943.81868 MHz	-64.01 dBm	-51.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-44.81 dBm	-31.81 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97975 GHz	-49.37 dBm	-36.37 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89528 GHz	-52.93 dBm	-39.93 dB

Date: 21.OCT.2019 18:12:09

LTE Band 12 / 3MHz

Lowest Channel / QPSK

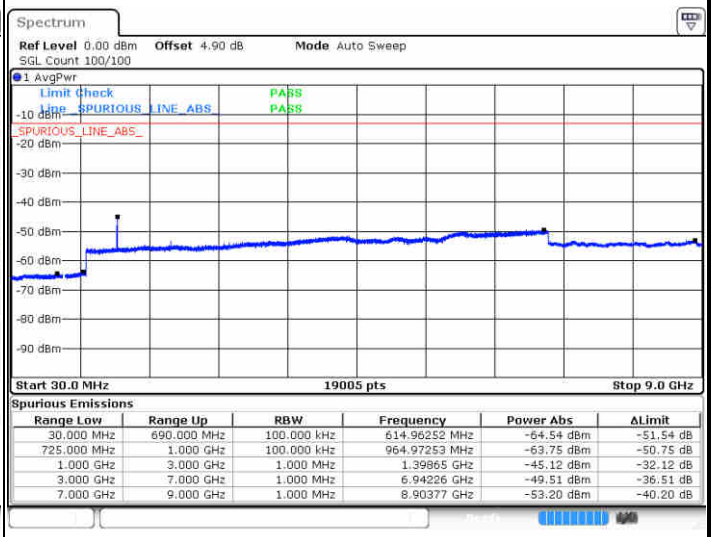


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	307.55622 MHz	-64.52 dBm	-51.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	965.52198 MHz	-63.71 dBm	-50.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-44.64 dBm	-31.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86377 GHz	-49.31 dBm	-36.31 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89628 GHz	-53.12 dBm	-40.12 dB

Date: 21.OCT.2019 18:24:12

Lowest Channel / 16QAM



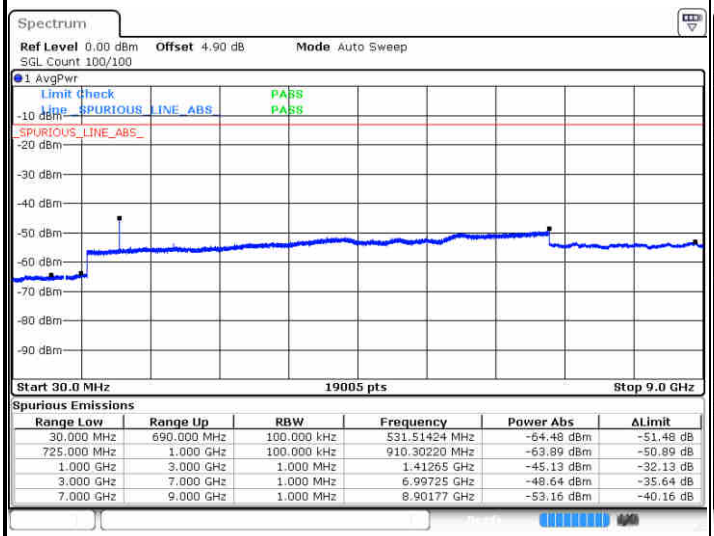
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	614.96252 MHz	-64.54 dBm	-51.54 dB
725.000 MHz	1.000 GHz	100.000 kHz	964.97253 MHz	-63.75 dBm	-50.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.12 dBm	-32.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94226 GHz	-49.51 dBm	-36.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90377 GHz	-53.20 dBm	-40.20 dB

Date: 21.OCT.2019 18:25:05

LTE Band 12 / 3MHz

Middle Channel / QPSK

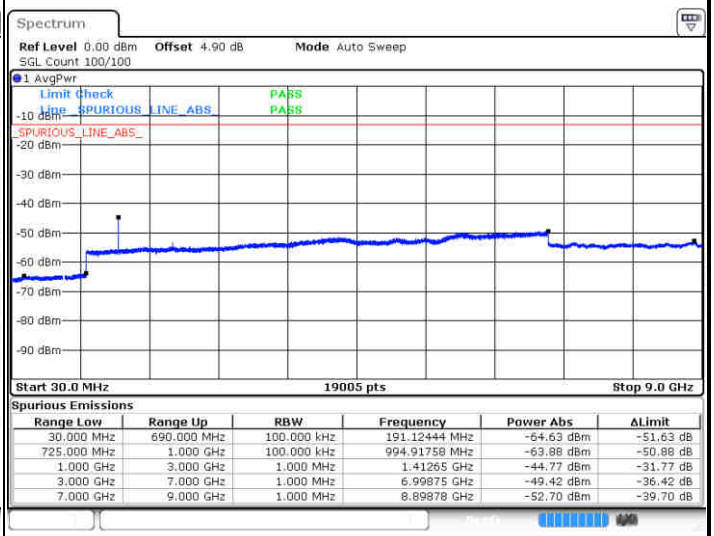


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	531.51424 MHz	-64.48 dBm	-51.48 dB
725.000 MHz	1.000 GHz	100.000 kHz	910.30220 MHz	-63.89 dBm	-50.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-45.13 dBm	-32.13 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-48.64 dBm	-35.64 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90177 GHz	-53.16 dBm	-40.16 dB

Date: 21.OCT.2019 18:26:52

Middle Channel / 16QAM

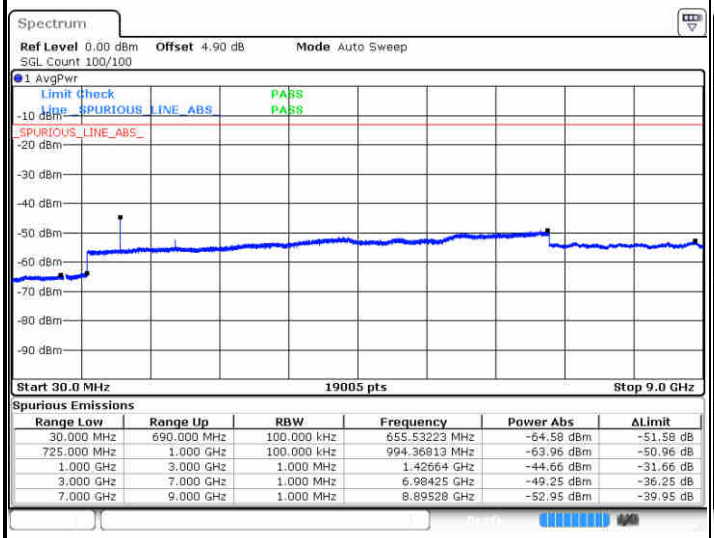


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	191.12444 MHz	-64.63 dBm	-51.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.91758 MHz	-63.88 dBm	-50.88 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-44.77 dBm	-31.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-49.42 dBm	-36.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89878 GHz	-52.70 dBm	-39.70 dB

Date: 21.OCT.2019 18:25:59

Highest Channel / QPSK

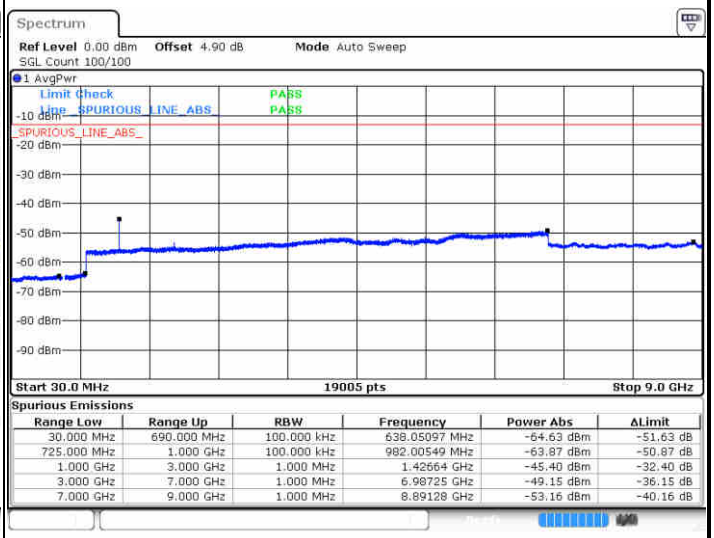


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	655.53223 MHz	-64.58 dBm	-51.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	994.36813 MHz	-63.96 dBm	-50.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-44.66 dBm	-31.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98425 GHz	-49.25 dBm	-36.25 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89528 GHz	-52.95 dBm	-39.95 dB

Date: 21.OCT.2019 18:27:46

Highest Channel / 16QAM



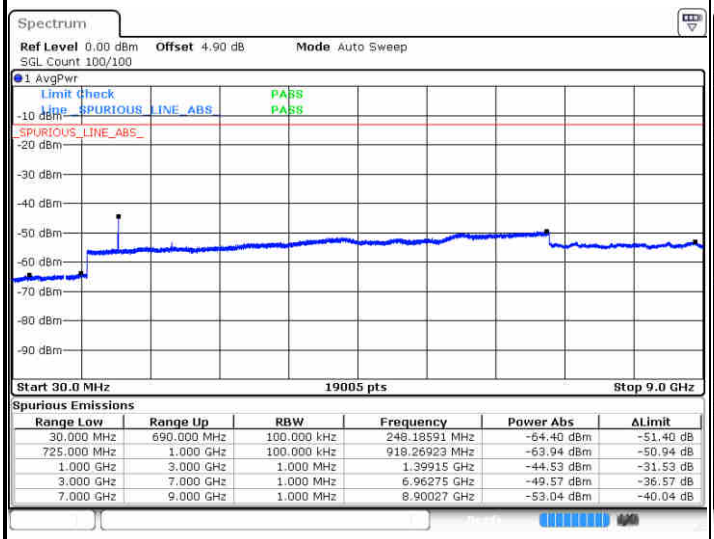
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	638.05097 MHz	-64.63 dBm	-51.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	982.00549 MHz	-63.87 dBm	-50.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.40 dBm	-32.40 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98725 GHz	-49.15 dBm	-36.15 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89128 GHz	-53.16 dBm	-40.16 dB

Date: 21.OCT.2019 18:28:39

LTE Band 12 / 5MHz

Lowest Channel / QPSK

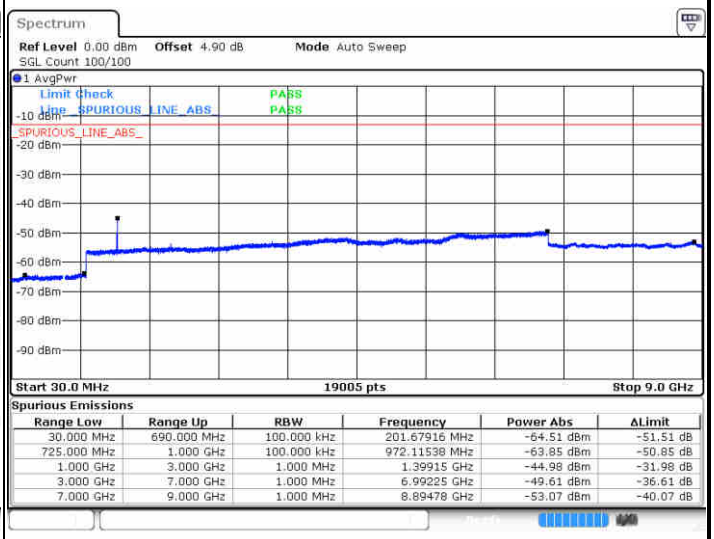


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	248.18591 MHz	-64.40 dBm	-51.40 dB
725.000 MHz	1.000 GHz	100.000 kHz	918.26923 MHz	-63.94 dBm	-50.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-44.53 dBm	-31.53 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96275 GHz	-49.57 dBm	-36.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90027 GHz	-53.04 dBm	-40.04 dB

Date: 21.OCT.2019 18:40:42

Lowest Channel / 16QAM

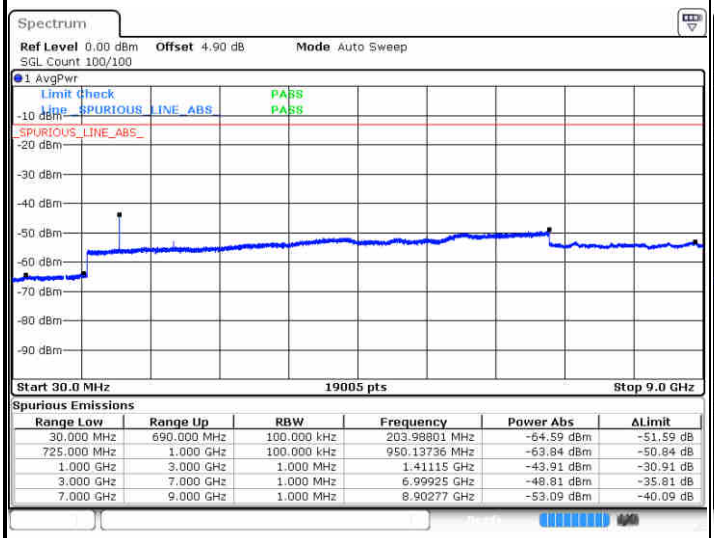


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	201.67916 MHz	-64.51 dBm	-51.51 dB
725.000 MHz	1.000 GHz	100.000 kHz	972.11538 MHz	-63.85 dBm	-50.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-44.98 dBm	-31.98 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99225 GHz	-49.61 dBm	-36.61 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89478 GHz	-53.07 dBm	-40.07 dB

Date: 21.OCT.2019 18:41:35

Middle Channel / QPSK

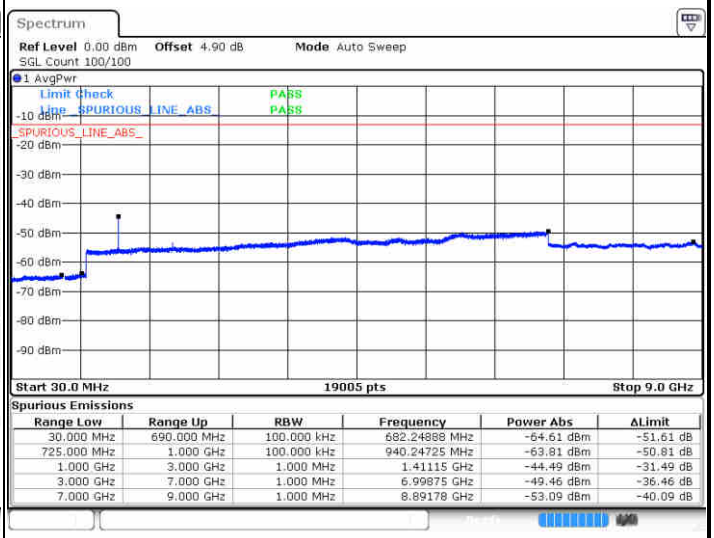


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	203.98801 MHz	-64.59 dBm	-51.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	950.13736 MHz	-63.84 dBm	-50.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.91 dBm	-30.91 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-48.81 dBm	-35.81 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90277 GHz	-53.09 dBm	-40.09 dB

Date: 21.OCT.2019 18:43:22

Middle Channel / 16QAM



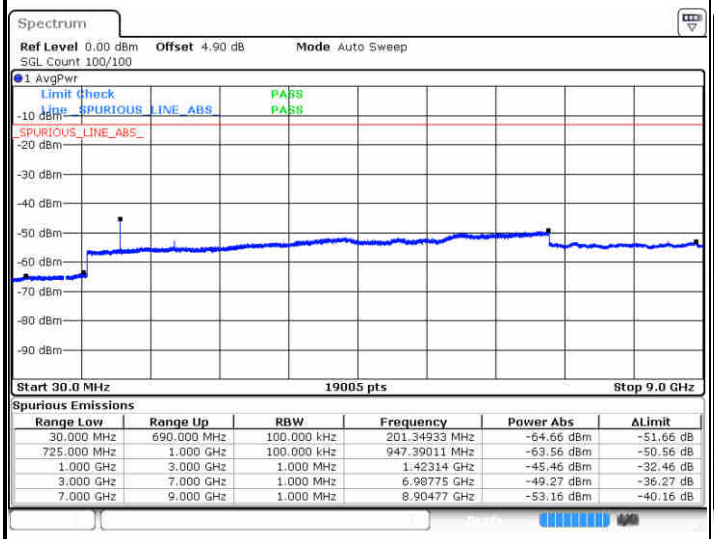
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.24888 MHz	-64.61 dBm	-51.61 dB
725.000 MHz	1.000 GHz	100.000 kHz	940.24725 MHz	-63.81 dBm	-50.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-44.49 dBm	-31.49 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-49.46 dBm	-36.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89178 GHz	-53.09 dBm	-40.09 dB

Date: 21.OCT.2019 18:42:29

LTE Band 12 / 5MHz

Highest Channel / QPSK

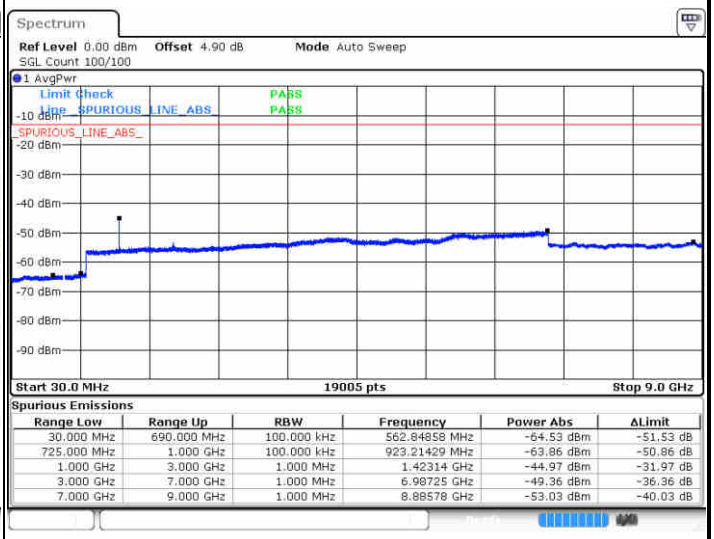


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	201.34933 MHz	-64.66 dBm	-51.66 dB
725.000 MHz	1.000 GHz	100.000 kHz	947.39011 MHz	-63.56 dBm	-50.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-45.46 dBm	-32.46 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-49.27 dBm	-36.27 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90477 GHz	-53.16 dBm	-40.16 dB

Date: 21.OCT.2019 18:44:16

Highest Channel / 16QAM



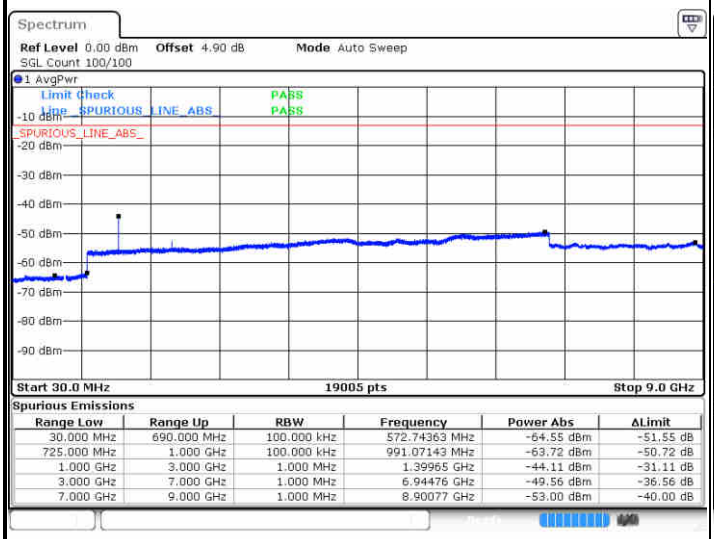
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	562.84858 MHz	-64.53 dBm	-51.53 dB
725.000 MHz	1.000 GHz	100.000 kHz	923.21429 MHz	-63.86 dBm	-50.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.97 dBm	-31.97 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98725 GHz	-49.36 dBm	-36.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88578 GHz	-53.03 dBm	-40.03 dB

Date: 21.OCT.2019 18:45:09

LTE Band 12 / 10MHz

Lowest Channel / QPSK

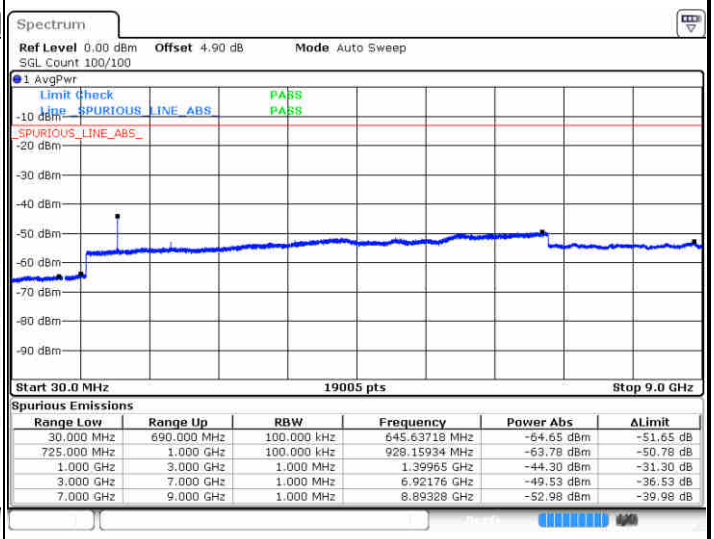


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	572.74363 MHz	-64.55 dBm	-51.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	991.07143 MHz	-63.72 dBm	-50.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.11 dBm	-31.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94476 GHz	-49.56 dBm	-36.56 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90077 GHz	-53.00 dBm	-40.00 dB

Date: 21.OCT.2019 18:57:12

Lowest Channel / 16QAM



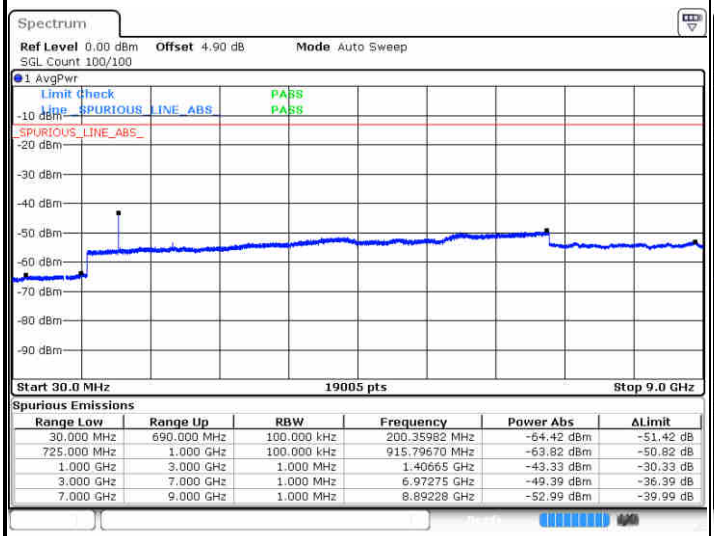
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	645.63718 MHz	-64.65 dBm	-51.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	928.15934 MHz	-63.78 dBm	-50.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.30 dBm	-31.30 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92176 GHz	-49.53 dBm	-36.53 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89328 GHz	-52.98 dBm	-39.98 dB

Date: 21.OCT.2019 18:58:05

LTE Band 12 / 10MHz

Middle Channel / QPSK

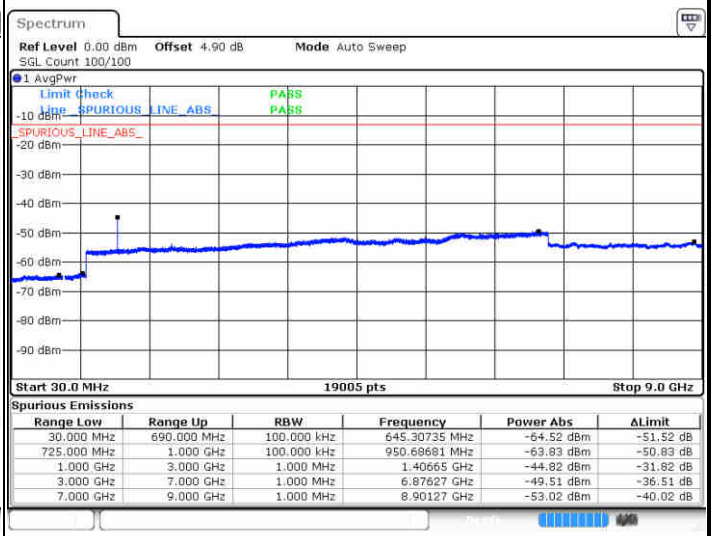


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	200.35982 MHz	-64.42 dBm	-51.42 dB
725.000 MHz	1.000 GHz	100.000 kHz	915.79670 MHz	-63.82 dBm	-50.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-43.33 dBm	-30.33 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97275 GHz	-49.39 dBm	-36.39 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89228 GHz	-52.99 dBm	-39.99 dB

Date: 21.OCT.2019 18:59:52

Middle Channel / 16QAM

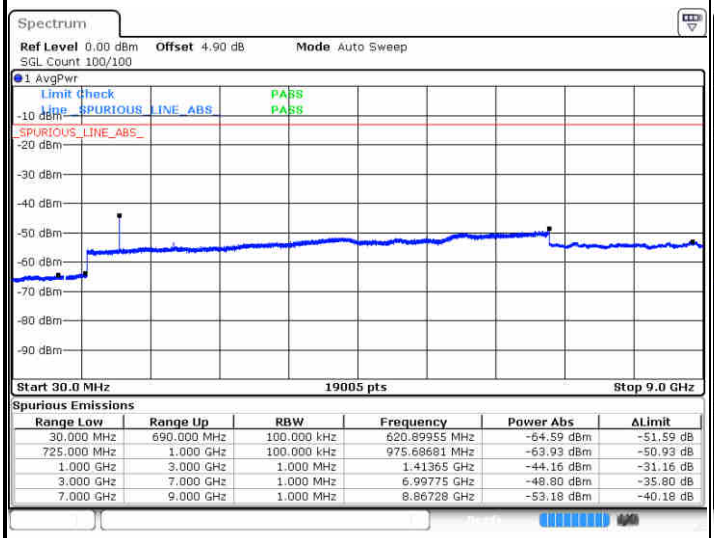


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	645.30735 MHz	-64.52 dBm	-51.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	950.68681 MHz	-63.83 dBm	-50.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-44.82 dBm	-31.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87627 GHz	-49.51 dBm	-36.51 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90127 GHz	-53.02 dBm	-40.02 dB

Date: 21.OCT.2019 18:58:59

Highest Channel / QPSK

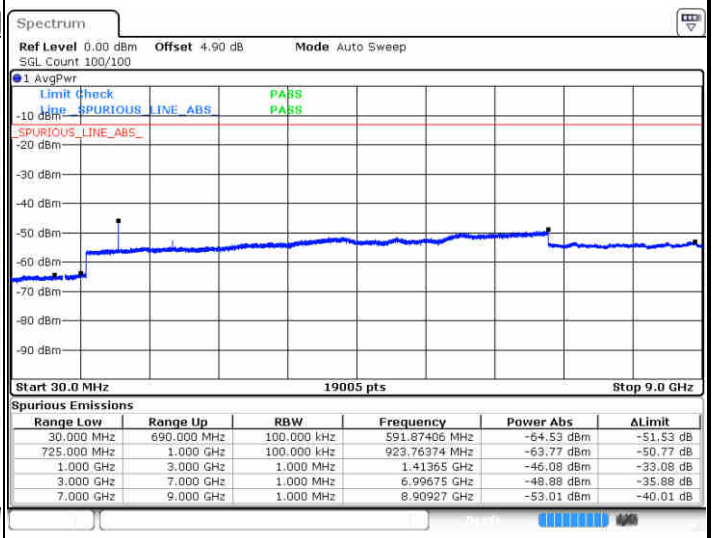


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	620.89955 MHz	-64.59 dBm	-51.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	975.68681 MHz	-63.93 dBm	-50.93 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.16 dBm	-31.16 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99775 GHz	-48.80 dBm	-35.80 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.86728 GHz	-53.18 dBm	-40.18 dB

Date: 21.OCT.2019 19:00:46

Highest Channel / 16QAM



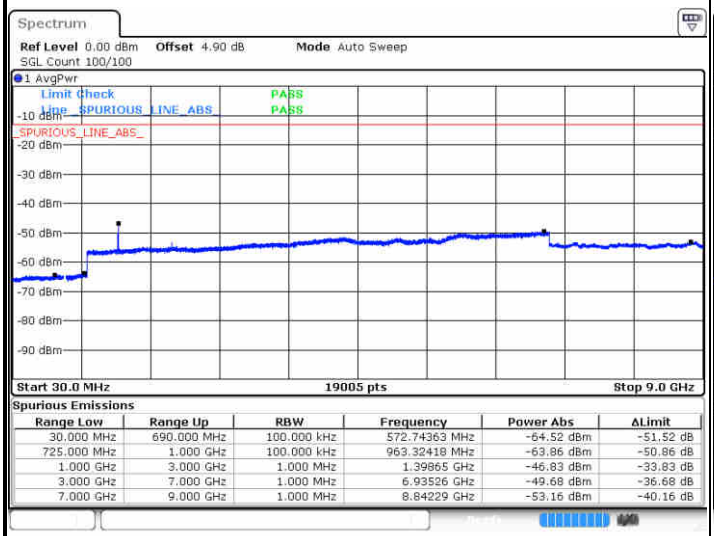
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	591.87406 MHz	-64.53 dBm	-51.53 dB
725.000 MHz	1.000 GHz	100.000 kHz	923.76374 MHz	-63.77 dBm	-50.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.08 dBm	-33.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99675 GHz	-48.88 dBm	-35.88 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90927 GHz	-53.01 dBm	-40.01 dB

Date: 21.OCT.2019 19:01:39

LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

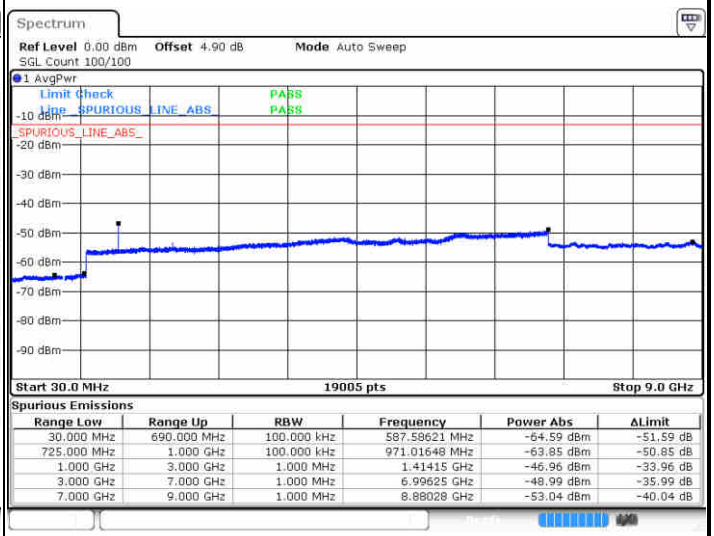


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	572.74363 MHz	-64.52 dBm	-51.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	963.32418 MHz	-63.86 dBm	-50.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-46.83 dBm	-33.83 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93526 GHz	-49.68 dBm	-36.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.84229 GHz	-53.16 dBm	-40.16 dB

Date: 21.OCT.2019 19:17:17

Middle Channel / 64QAM

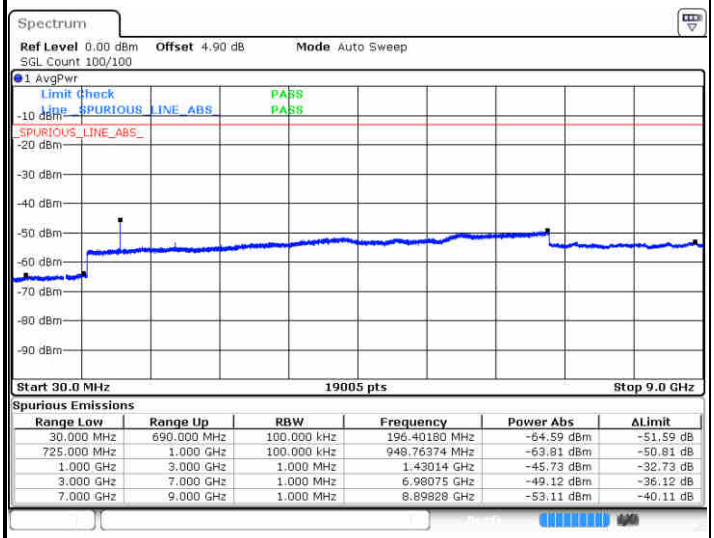


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	587.58621 MHz	-64.59 dBm	-51.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	971.01648 MHz	-63.85 dBm	-50.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41415 GHz	-46.96 dBm	-33.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99625 GHz	-48.99 dBm	-35.99 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88028 GHz	-53.04 dBm	-40.04 dB

Date: 21.OCT.2019 19:18:10

Highest Channel / 64QAM



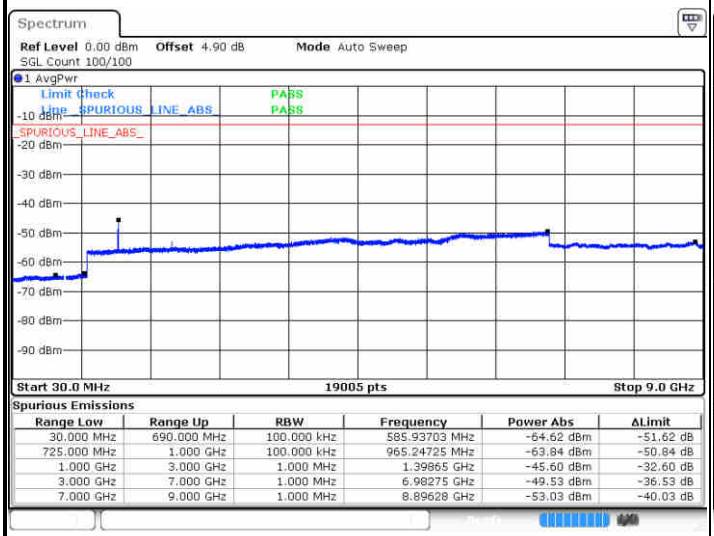
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	196.40180 MHz	-64.59 dBm	-51.59 dB
725.000 MHz	1.000 GHz	100.000 kHz	948.76374 MHz	-63.81 dBm	-50.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-45.73 dBm	-32.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98075 GHz	-49.12 dBm	-36.12 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89828 GHz	-53.11 dBm	-40.11 dB

Date: 21.OCT.2019 19:19:04

LTE Band 12 / 3MHz

Lowest Channel / 64QAM

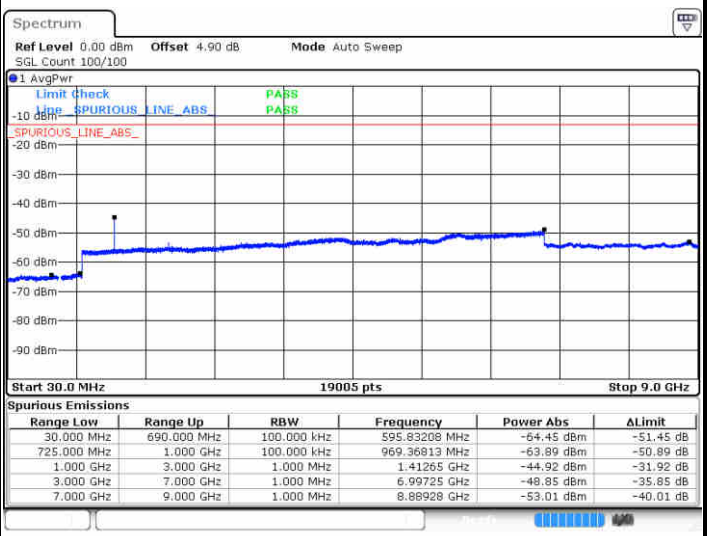


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	585.93703 MHz	-64.62 dBm	-51.62 dB
725.000 MHz	1.000 GHz	100.000 kHz	965.24725 MHz	-63.84 dBm	-50.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.60 dBm	-32.60 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98275 GHz	-49.53 dBm	-36.53 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89628 GHz	-53.03 dBm	-40.03 dB

Date: 21.OCT.2019 19:19:57

Middle Channel / 64QAM

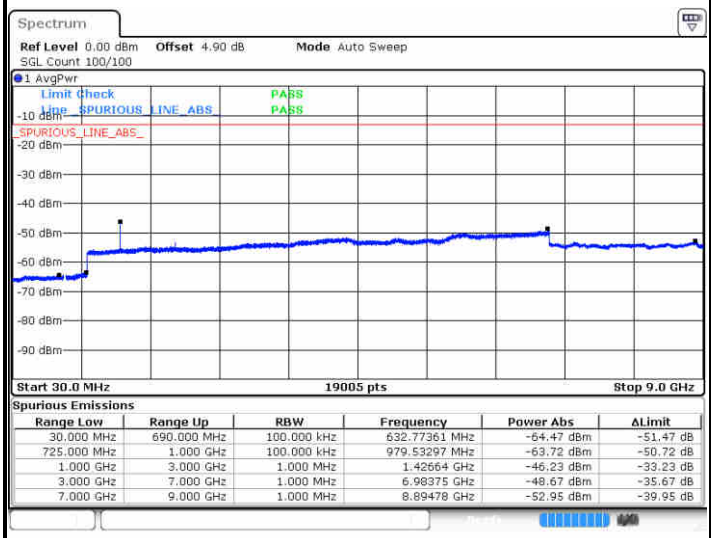


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	595.83208 MHz	-64.45 dBm	-51.45 dB
725.000 MHz	1.000 GHz	100.000 kHz	969.36813 MHz	-63.89 dBm	-50.89 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-44.92 dBm	-31.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99725 GHz	-48.85 dBm	-35.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.88928 GHz	-53.01 dBm	-40.01 dB

Date: 21.OCT.2019 19:20:51

Highest Channel / 64QAM



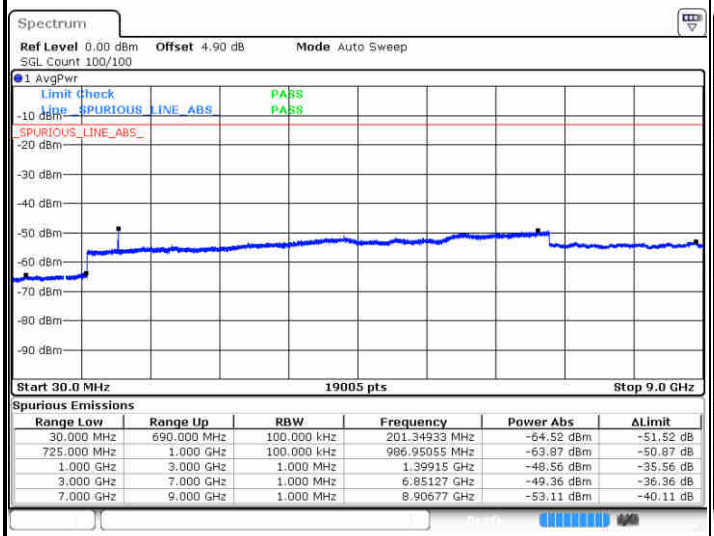
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	632.77361 MHz	-64.47 dBm	-51.47 dB
725.000 MHz	1.000 GHz	100.000 kHz	979.53297 MHz	-63.72 dBm	-50.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-46.23 dBm	-33.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98375 GHz	-48.67 dBm	-35.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89478 GHz	-52.95 dBm	-39.95 dB

Date: 21.OCT.2019 19:21:44

LTE Band 12 / 5MHz

Lowest Channel / 64QAM

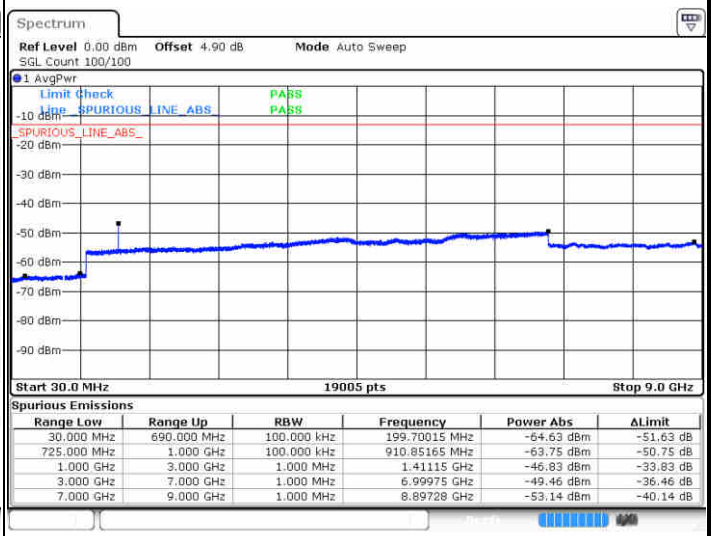


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	201.34933 MHz	-64.52 dBm	-51.52 dB
725.000 MHz	1.000 GHz	100.000 kHz	986.95055 MHz	-63.87 dBm	-50.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-48.56 dBm	-35.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85127 GHz	-49.36 dBm	-36.36 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90677 GHz	-53.11 dBm	-40.11 dB

Date: 21.OCT.2019 19:37:16

Middle Channel / 64QAM

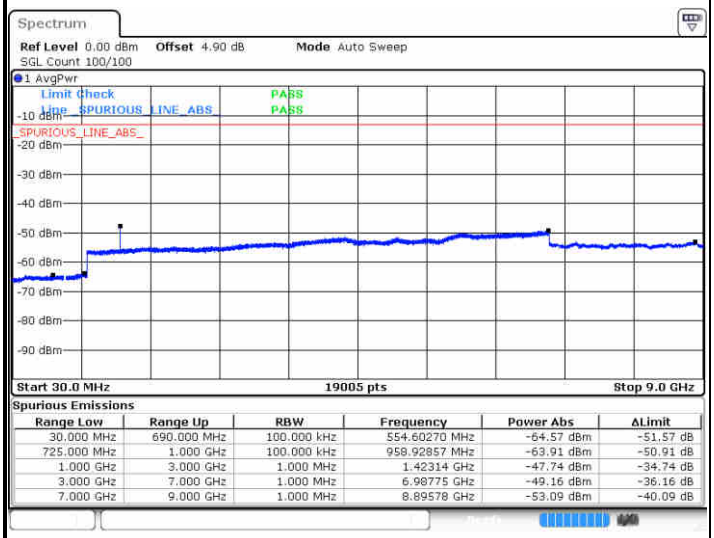


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	199.70015 MHz	-64.63 dBm	-51.63 dB
725.000 MHz	1.000 GHz	100.000 kHz	910.85165 MHz	-63.75 dBm	-50.75 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-46.83 dBm	-33.83 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-49.46 dBm	-36.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89728 GHz	-53.14 dBm	-40.14 dB

Date: 21.OCT.2019 19:38:09

Highest Channel / 64QAM



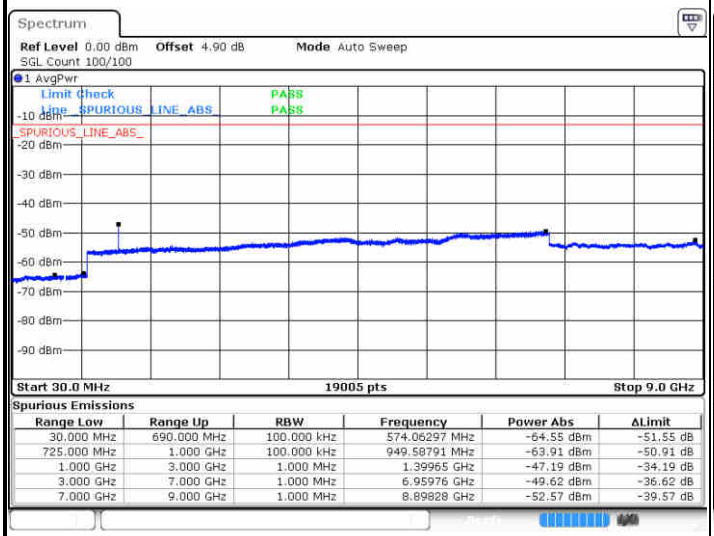
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	554.60270 MHz	-64.57 dBm	-51.57 dB
725.000 MHz	1.000 GHz	100.000 kHz	958.92857 MHz	-63.91 dBm	-50.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-47.74 dBm	-34.74 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.98775 GHz	-49.16 dBm	-36.16 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89578 GHz	-53.09 dBm	-40.09 dB

Date: 21.OCT.2019 19:39:03

LTE Band 12 / 10MHz

Lowest Channel / 64QAM

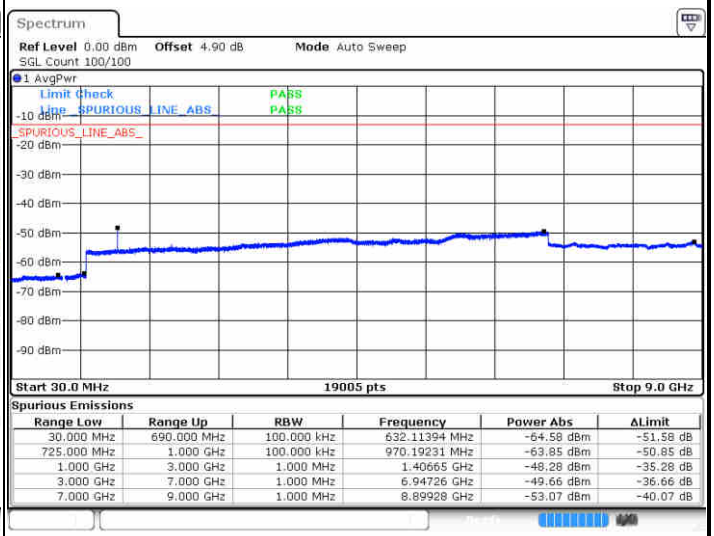


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	574.06297 MHz	-64.55 dBm	-51.55 dB
725.000 MHz	1.000 GHz	100.000 kHz	949.58791 MHz	-63.91 dBm	-50.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-47.19 dBm	-34.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.95976 GHz	-49.62 dBm	-36.62 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89828 GHz	-52.57 dBm	-39.57 dB

Date: 21.OCT.2019 19:39:56

Middle Channel / 64QAM

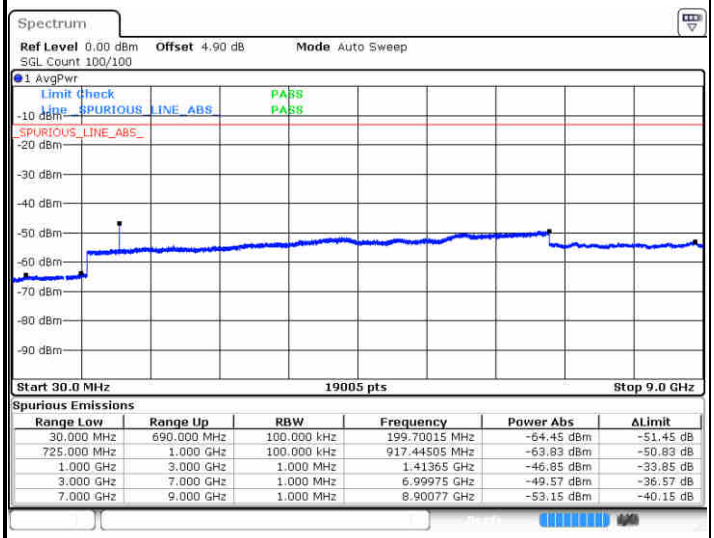


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	632.11394 MHz	-64.58 dBm	-51.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	970.19231 MHz	-63.85 dBm	-50.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-48.28 dBm	-35.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94726 GHz	-49.66 dBm	-36.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.89928 GHz	-53.07 dBm	-40.07 dB

Date: 21.OCT.2019 19:40:50

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	199.70015 MHz	-64.45 dBm	-51.45 dB
725.000 MHz	1.000 GHz	100.000 kHz	917.44505 MHz	-63.83 dBm	-50.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.85 dBm	-33.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99975 GHz	-49.57 dBm	-36.57 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.90077 GHz	-53.15 dBm	-40.15 dB

Date: 21.OCT.2019 19:41:43

Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0085	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0071	
-30	Normal Voltage	0.0059	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0099	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 13

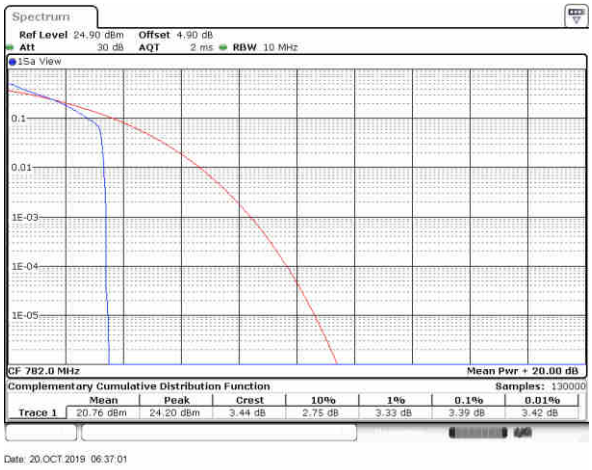
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH		-	-	-	PASS
Middle CH	3.39	4.78	4.70	6.09	
Highest CH	-	-	-	-	

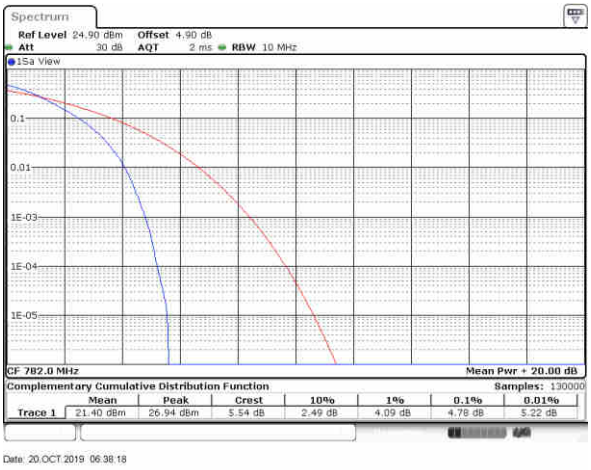
Mod.	64QAM		Limit: 13dB
RB Size	1RB	Full RB	Result
Lowest CH			PASS
Middle CH	4.87	6.09	
Highest CH			

LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

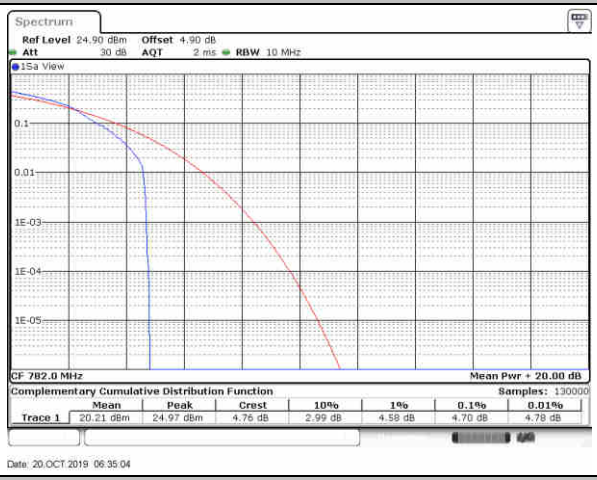


Middle Channel / Full RB

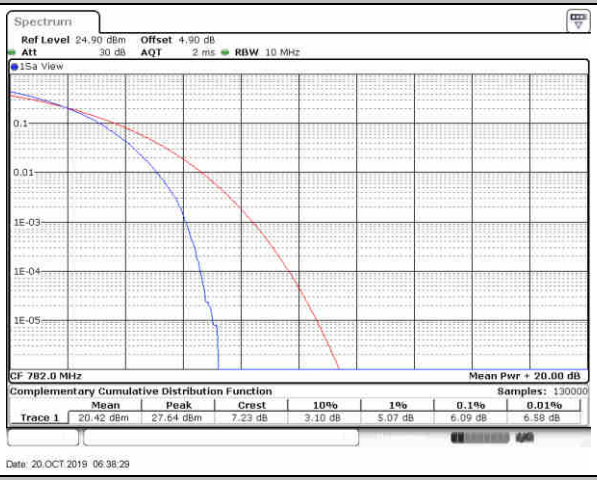


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

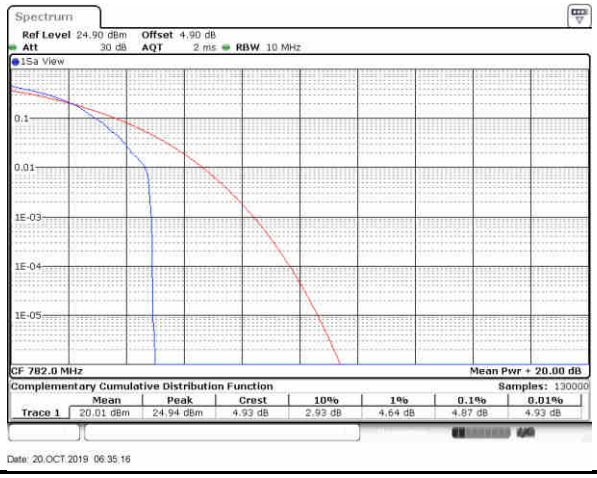


Middle Channel / Full RB

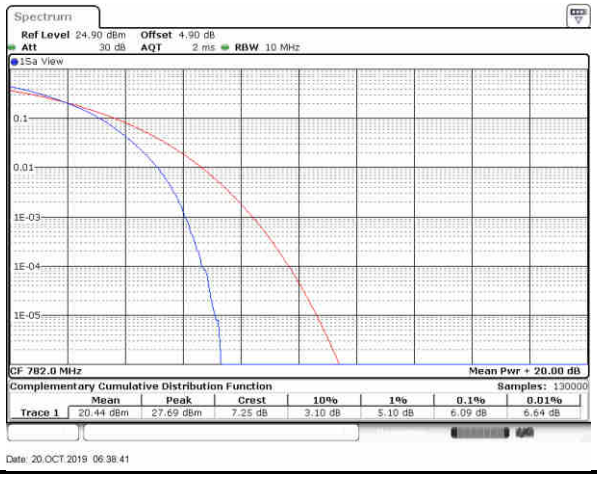


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB

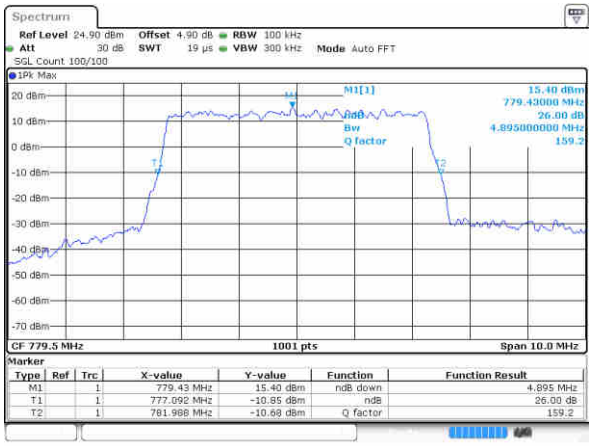


26dB Bandwidth

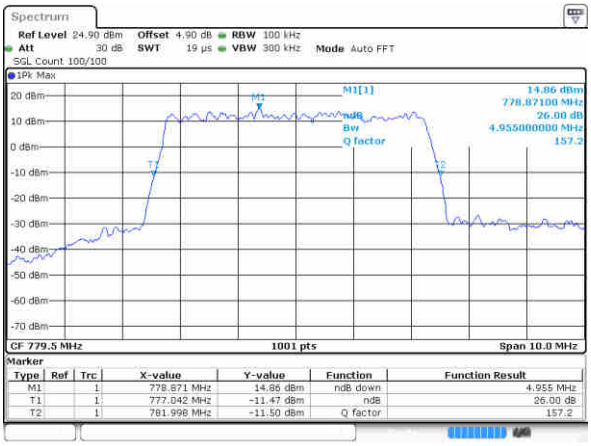
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.895	4.955			4.905							
Middle CH	4.915	4.885	9.71	9.79	4.975	9.69						
Highest CH	4.855	4.855			4.905							

LTE Band 13

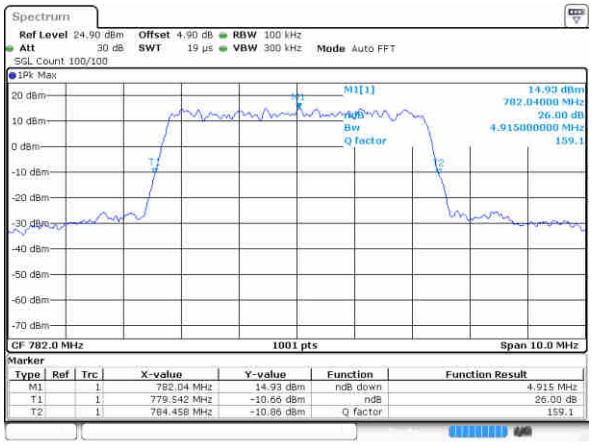
Lowest Channel / 5MHz / QPSK



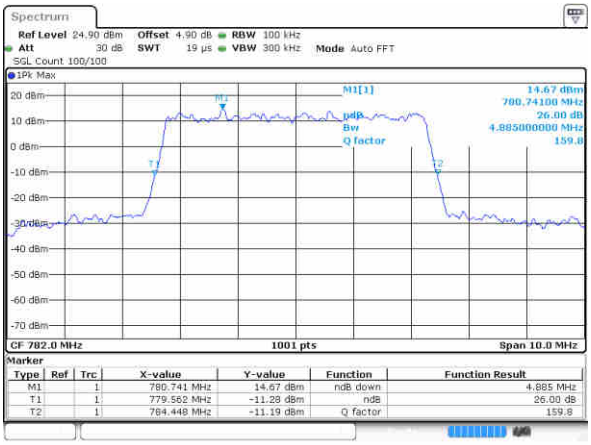
Lowest Channel / 5MHz / 16QAM



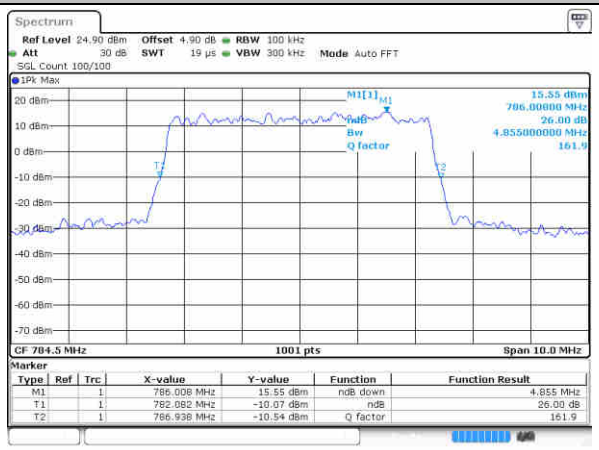
Middle Channel / 5MHz / QPSK



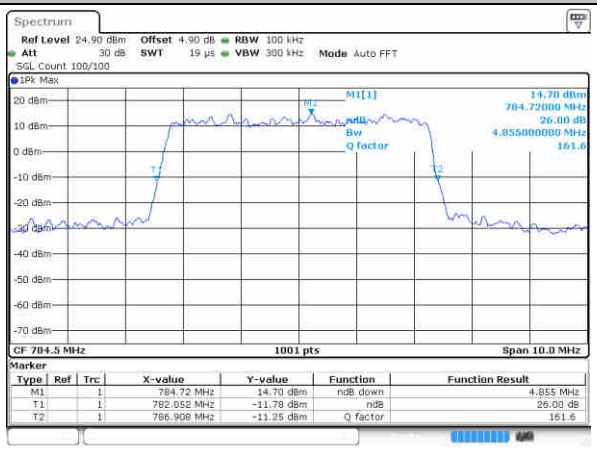
Middle Channel / 5MHz / 16QAM

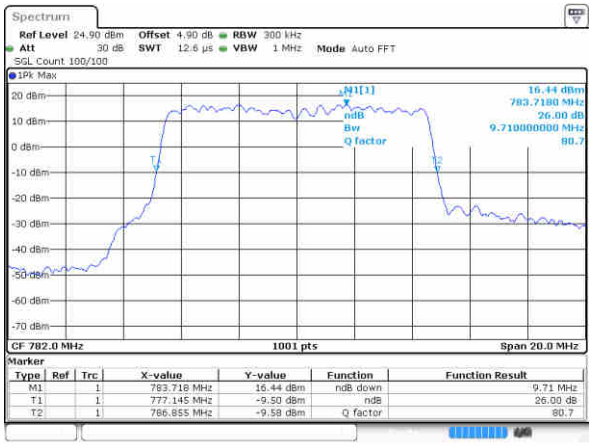
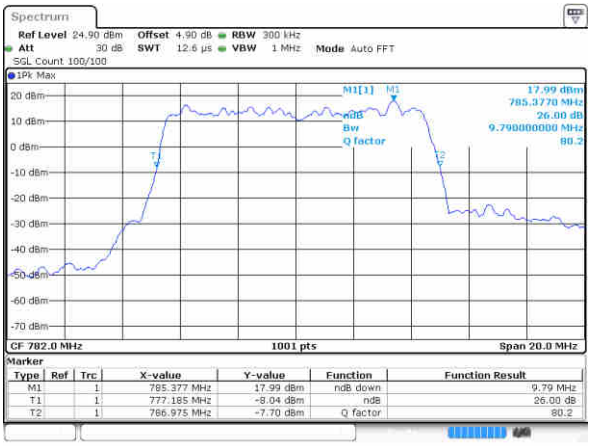


Highest Channel / 5MHz / QPSK



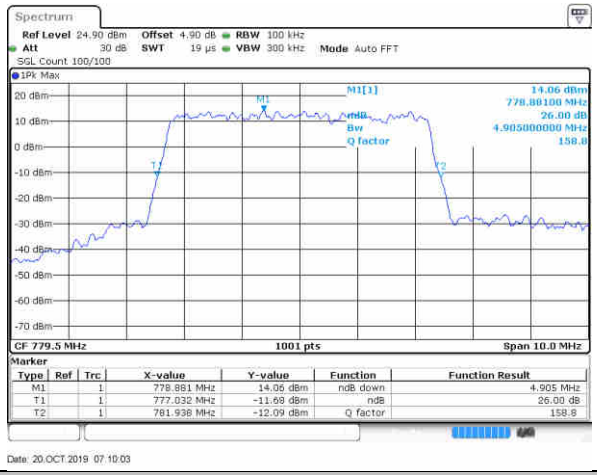
Highest Channel / 5MHz / 16QAM



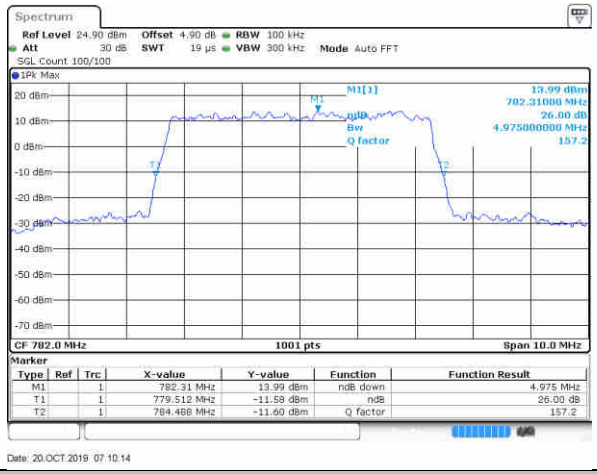
LTE Band 13	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	

LTE Band 13

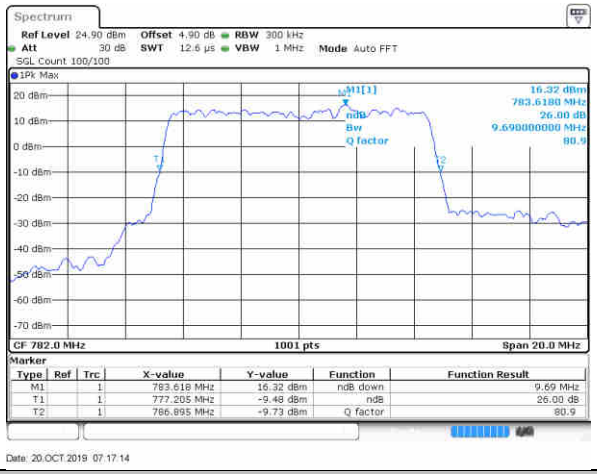
Lowest Channel / 5MHz / 64QAM



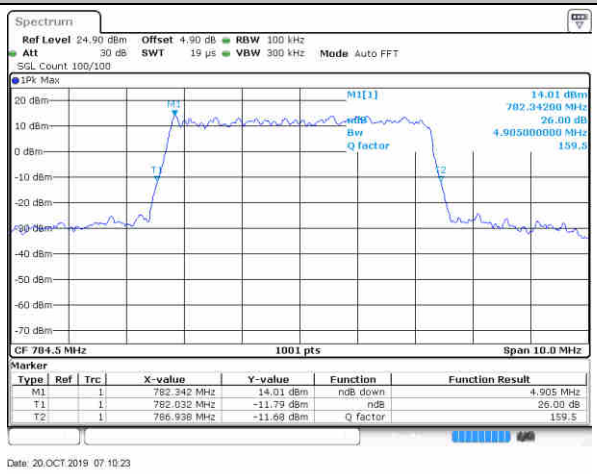
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

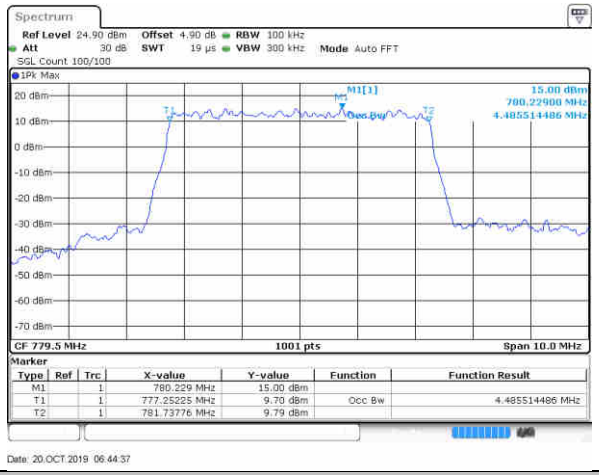


Occupied Bandwidth

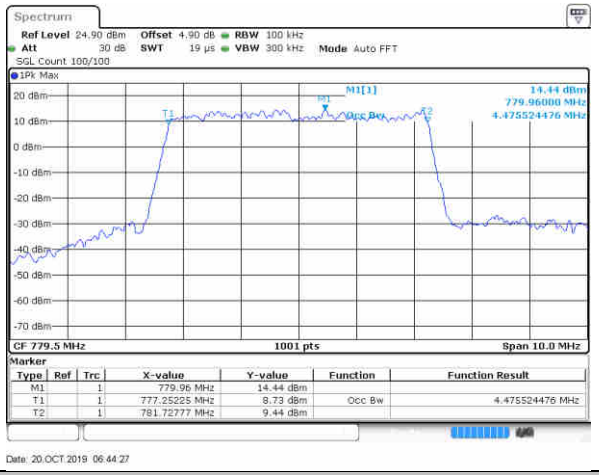
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	5MHz		10MHz		5MHz	10MHz						
Mod.	QPSK	16QAM	QPSK	16QAM	64QAM	64QAM						
Lowest CH	4.49	4.48			4.50							
Middle CH	4.50	4.52	9.05	9.03	4.50	9.03						
Highest CH	4.50	4.48			4.50							

LTE Band 13

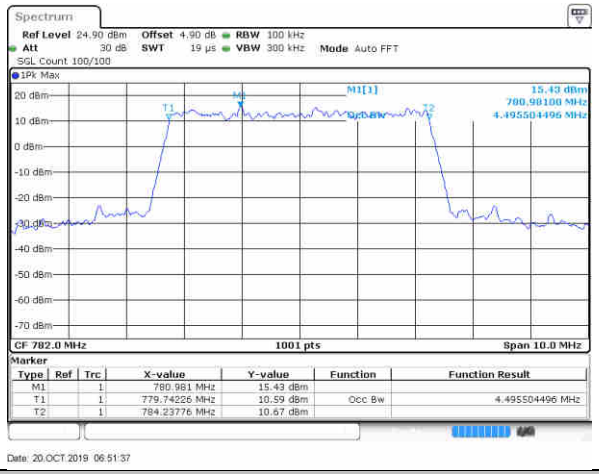
Lowest Channel / 5MHz / QPSK



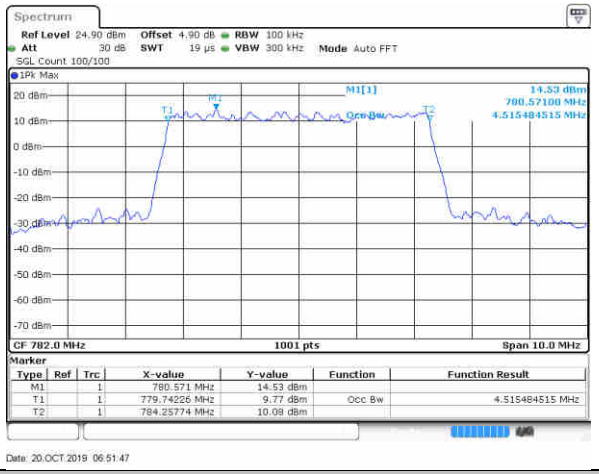
Lowest Channel / 5MHz / 16QAM



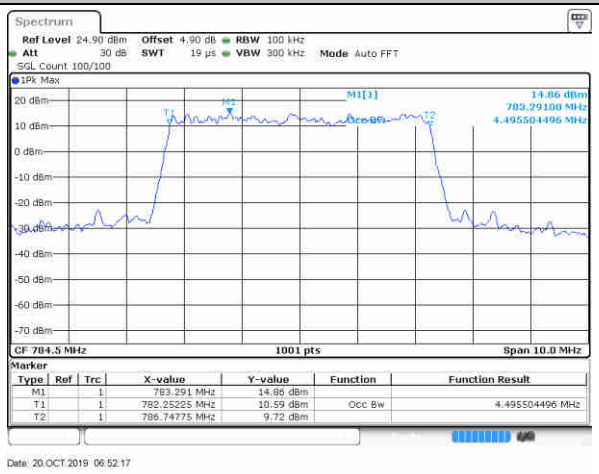
Middle Channel / 5MHz / QPSK



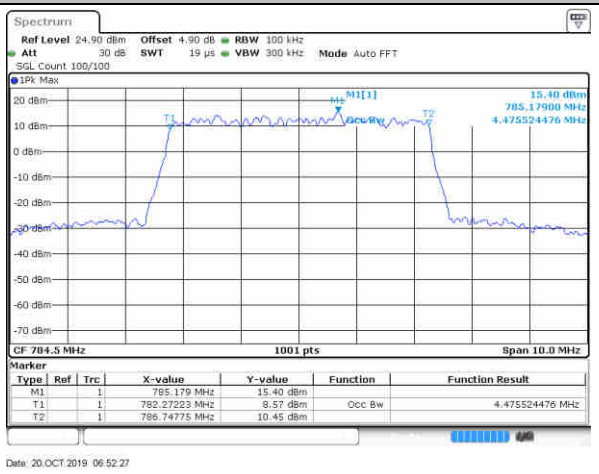
Middle Channel / 5MHz / 16QAM

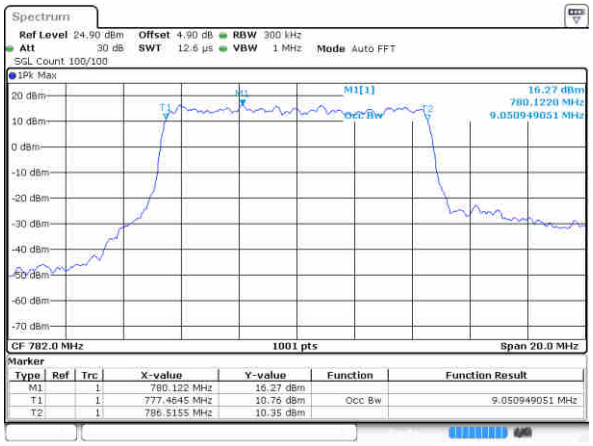
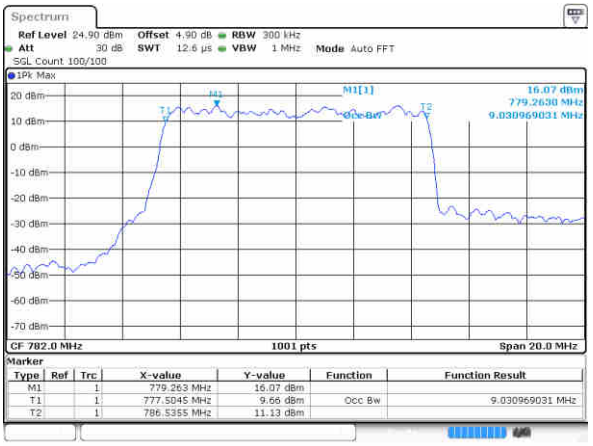


Highest Channel / 5MHz / QPSK



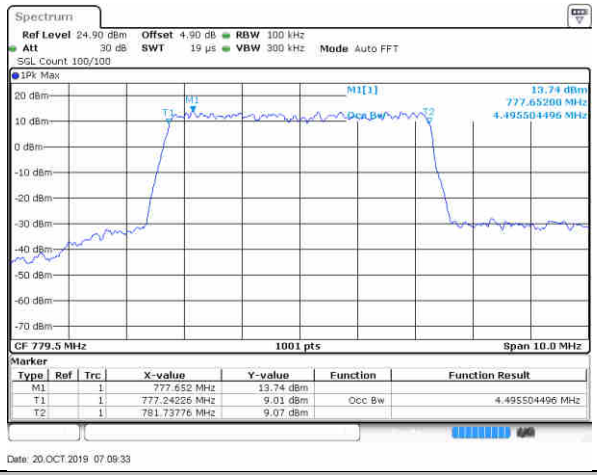
Highest Channel / 5MHz / 16QAM



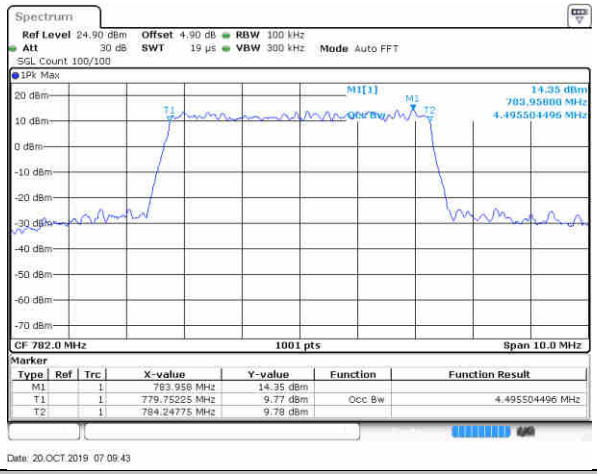
LTE Band 13	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM
	

LTE Band 13

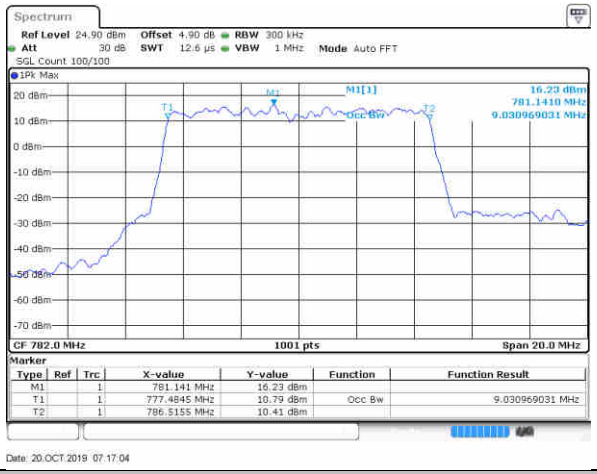
Lowest Channel / 5MHz / 64QAM



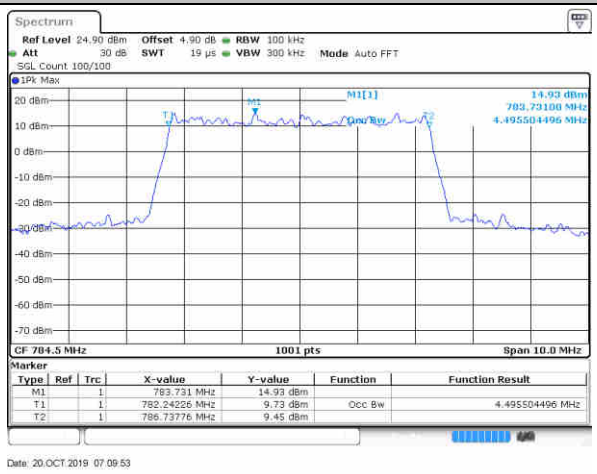
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



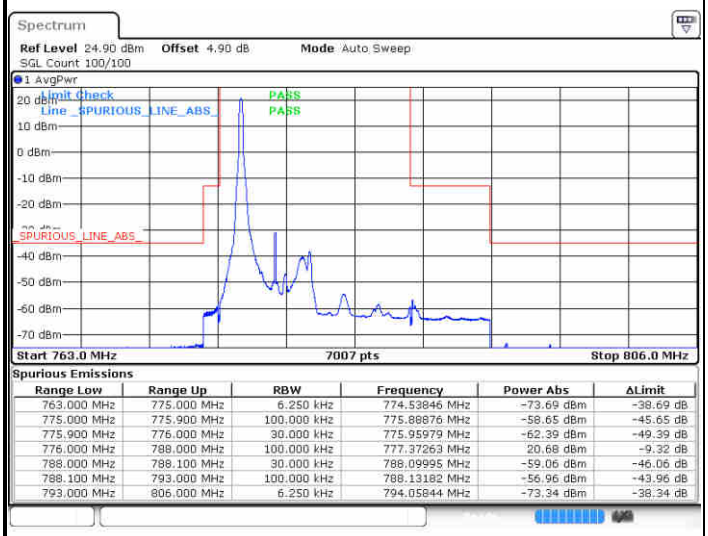
Highest Channel / 5MHz / 64QAM



Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

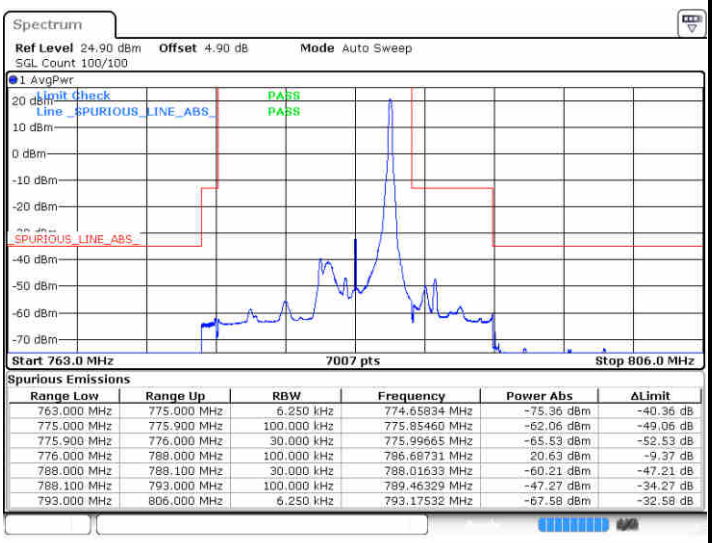


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.53846 MHz	-73.69 dBm	-38.69 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88876 MHz	-58.65 dBm	-45.65 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95979 MHz	-62.39 dBm	-49.39 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.37263 MHz	20.68 dBm	-9.32 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09995 MHz	-59.06 dBm	-46.06 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13182 MHz	-56.96 dBm	-43.96 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.05844 MHz	-73.34 dBm	-38.34 dB

Date: 20.OCT.2019 06:49:30

Highest Band Edge / 1 RB

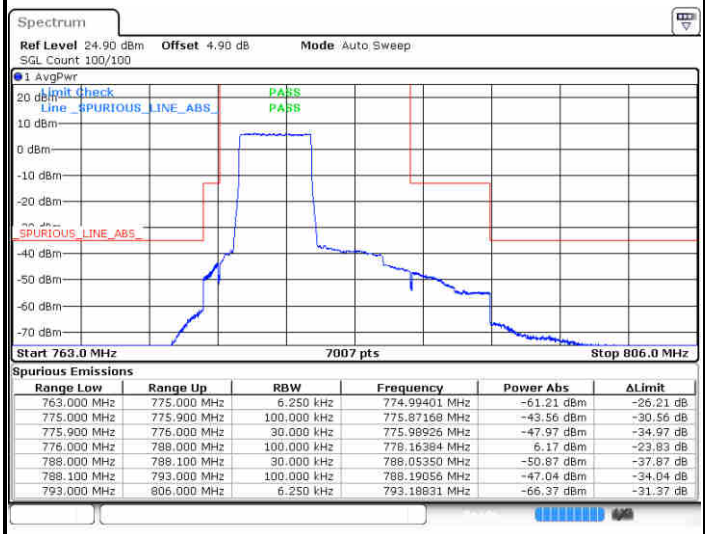


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.65834 MHz	-75.36 dBm	-40.36 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85460 MHz	-62.06 dBm	-49.06 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99665 MHz	-65.53 dBm	-52.53 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.68731 MHz	20.63 dBm	-9.37 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01633 MHz	-60.21 dBm	-47.21 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.46329 MHz	-47.27 dBm	-34.27 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-67.58 dBm	-32.58 dB

Date: 20.OCT.2019 06:57:20

Lowest Band Edge / Full RB

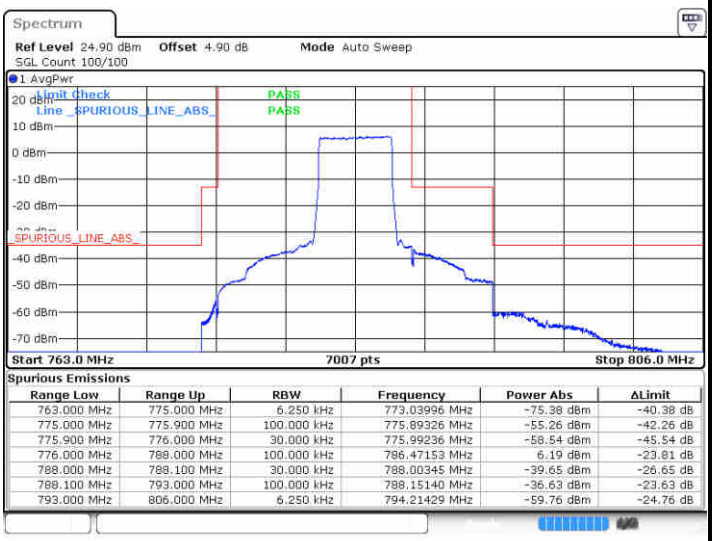


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-61.21 dBm	-26.21 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87168 MHz	-43.56 dBm	-30.56 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98926 MHz	-47.97 dBm	-34.97 dB
776.000 MHz	788.000 MHz	100.000 kHz	778.16384 MHz	6.17 dBm	-23.83 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05350 MHz	-50.87 dBm	-37.87 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.19056 MHz	-47.04 dBm	-34.04 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.18831 MHz	-66.37 dBm	-31.37 dB

Date: 20.OCT.2019 06:47:52

Highest Band Edge / Full RB



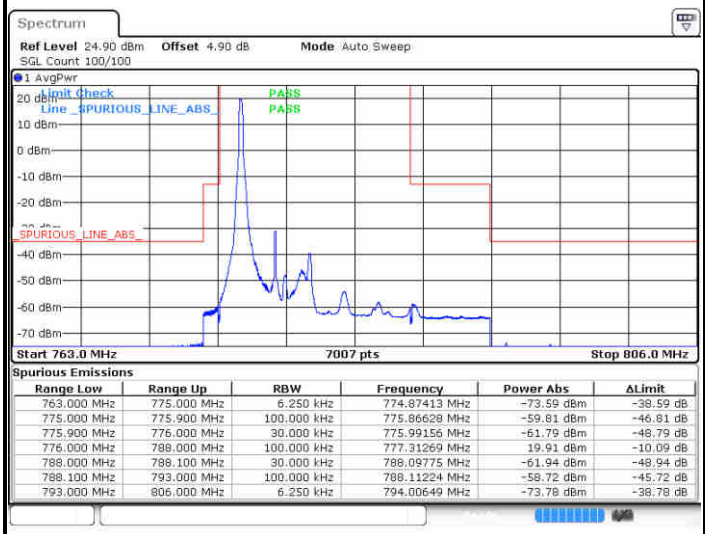
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.03996 MHz	-75.38 dBm	-40.38 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89326 MHz	-55.26 dBm	-42.26 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99236 MHz	-58.54 dBm	-45.54 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.47153 MHz	6.19 dBm	-23.81 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00345 MHz	-39.65 dBm	-26.65 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-36.63 dBm	-23.63 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.21429 MHz	-59.76 dBm	-24.76 dB

Date: 20.OCT.2019 06:55:43

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

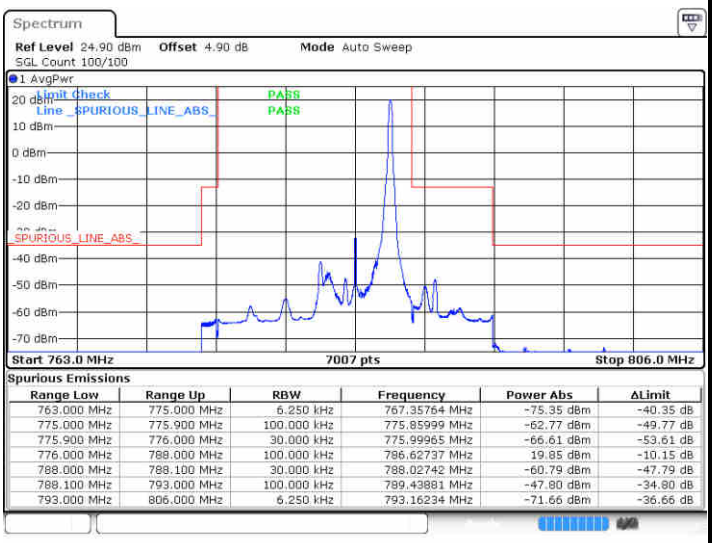


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.87413 MHz	-73.59 dBm	-38.59 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86628 MHz	-59.81 dBm	-46.81 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99156 MHz	-61.79 dBm	-48.79 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.31269 MHz	19.91 dBm	-10.09 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09775 MHz	-61.94 dBm	-48.94 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11224 MHz	-58.72 dBm	-45.72 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.00649 MHz	-73.78 dBm	-38.78 dB

Date: 20.OCT.2019 06:51:07

Highest Band Edge / 1 RB

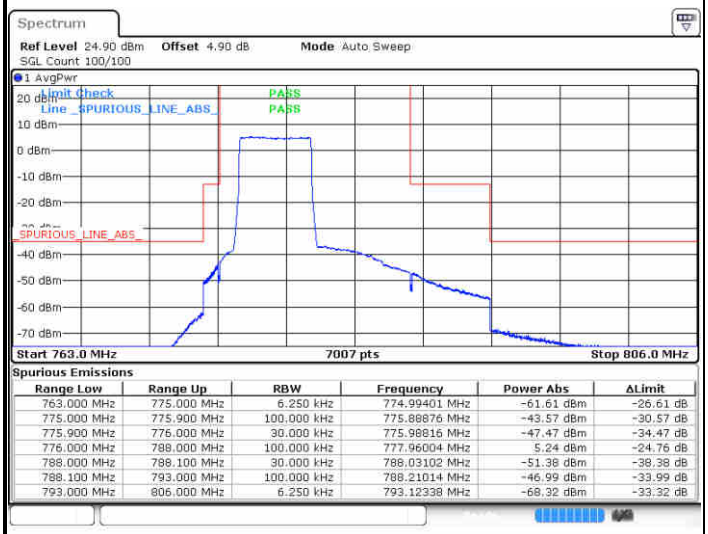


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	767.35764 MHz	-75.35 dBm	-40.35 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85999 MHz	-62.77 dBm	-49.77 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99965 MHz	-66.61 dBm	-53.61 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	19.85 dBm	-10.15 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02742 MHz	-60.79 dBm	-47.79 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.43881 MHz	-47.80 dBm	-34.80 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-71.66 dBm	-36.66 dB

Date: 20.OCT.2019 06:58:58

Lowest Band Edge / Full RB

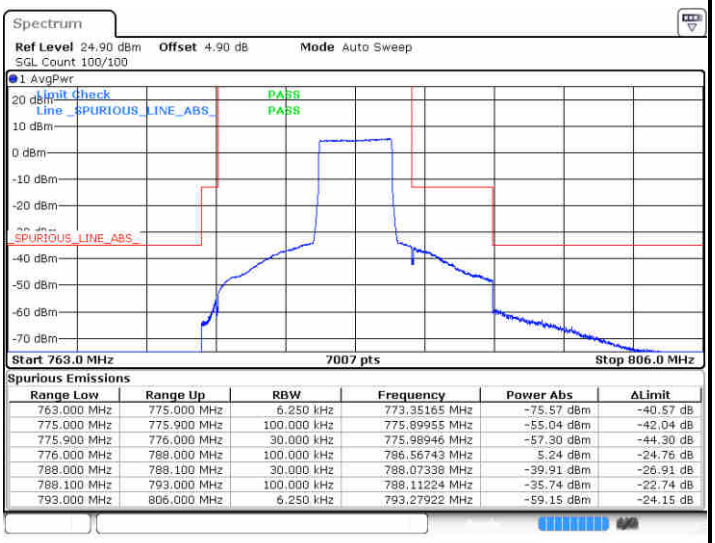


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-61.61 dBm	-26.61 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88876 MHz	-43.57 dBm	-30.57 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98816 MHz	-47.47 dBm	-34.47 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.96004 MHz	5.24 dBm	-24.76 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03102 MHz	-51.38 dBm	-38.38 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.21014 MHz	-46.99 dBm	-33.99 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.12338 MHz	-68.32 dBm	-33.32 dB

Date: 20.OCT.2019 06:46:14

Highest Band Edge / Full RB



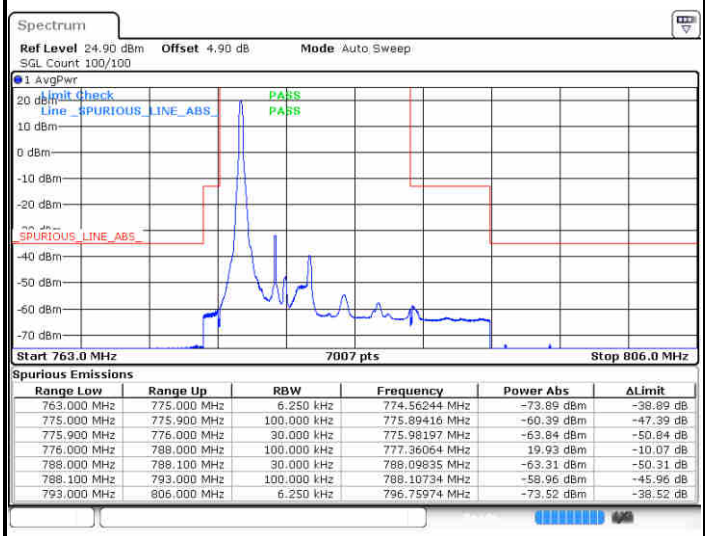
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.35165 MHz	-75.57 dBm	-40.57 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-55.04 dBm	-42.04 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98946 MHz	-57.30 dBm	-44.30 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.56743 MHz	5.24 dBm	-24.76 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07338 MHz	-39.91 dBm	-26.91 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.11224 MHz	-35.74 dBm	-22.74 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.27922 MHz	-59.15 dBm	-24.15 dB

Date: 20.OCT.2019 06:54:05

LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

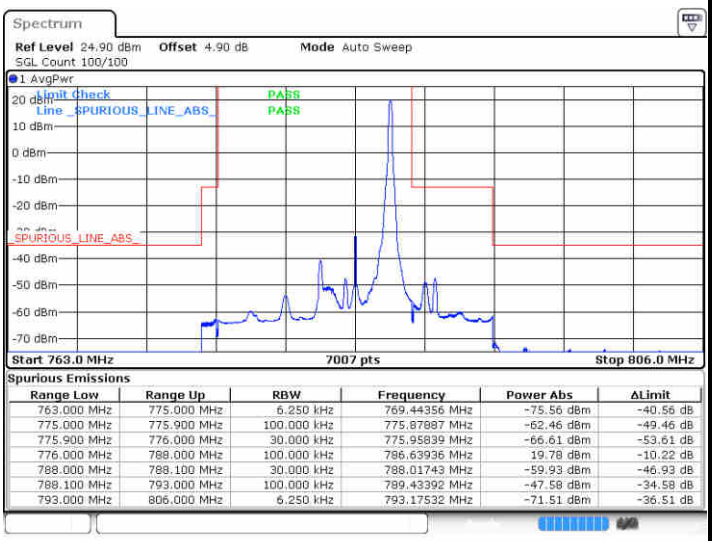


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.56244 MHz	-73.89 dBm	-38.89 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89416 MHz	-60.39 dBm	-47.39 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98197 MHz	-63.84 dBm	-50.84 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.36064 MHz	19.93 dBm	-10.07 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09835 MHz	-63.31 dBm	-50.31 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10734 MHz	-58.96 dBm	-45.96 dB
793.000 MHz	806.000 MHz	6.250 kHz	796.75974 MHz	-73.52 dBm	-38.52 dB

Date: 20.OCT.2019 07:12:01

Highest Band Edge / 1 RB

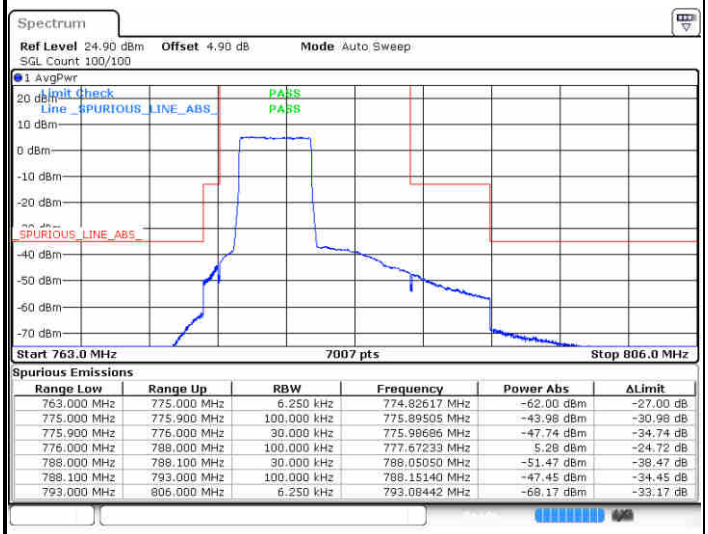


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.44356 MHz	-75.56 dBm	-40.56 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87887 MHz	-62.46 dBm	-49.46 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95839 MHz	-66.61 dBm	-53.61 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.63936 MHz	19.78 dBm	-10.22 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.01743 MHz	-59.93 dBm	-46.93 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.43392 MHz	-47.58 dBm	-34.58 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-71.51 dBm	-36.51 dB

Date: 20.OCT.2019 07:16:54

Lowest Band Edge / Full RB

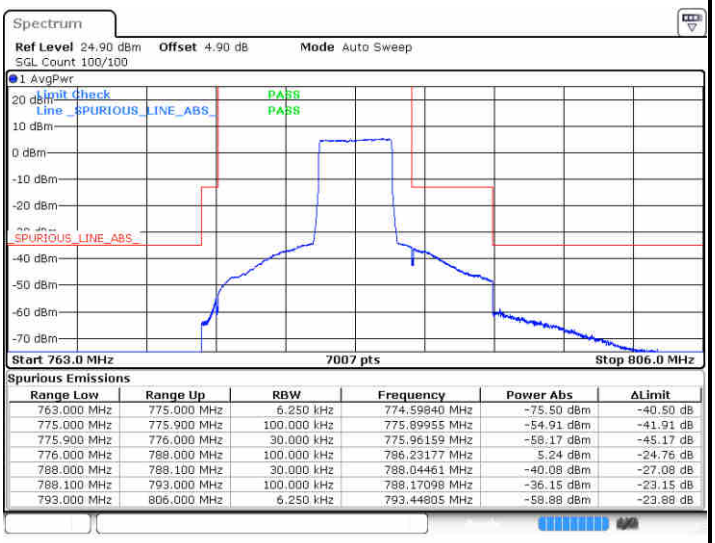


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.82617 MHz	-62.00 dBm	-27.00 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89505 MHz	-43.98 dBm	-30.98 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98686 MHz	-47.74 dBm	-34.74 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.67233 MHz	5.28 dBm	-24.72 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05050 MHz	-51.47 dBm	-38.47 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-47.45 dBm	-34.45 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.08442 MHz	-68.17 dBm	-33.17 dB

Date: 20.OCT.2019 07:13:39

Highest Band Edge / Full RB



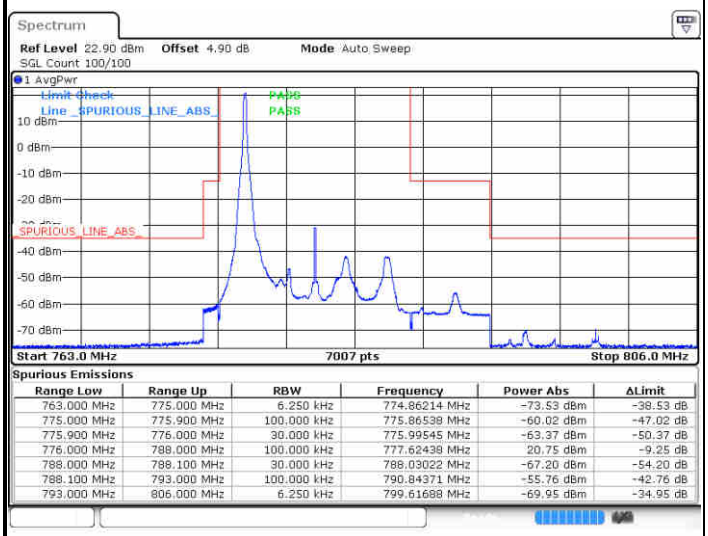
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.59840 MHz	-75.50 dBm	-40.50 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-54.91 dBm	-41.91 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96159 MHz	-58.17 dBm	-45.17 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.23177 MHz	5.24 dBm	-24.76 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04461 MHz	-40.08 dBm	-27.08 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.17098 MHz	-36.15 dBm	-23.15 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.44805 MHz	-58.88 dBm	-23.88 dB

Date: 20.OCT.2019 07:15:17

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

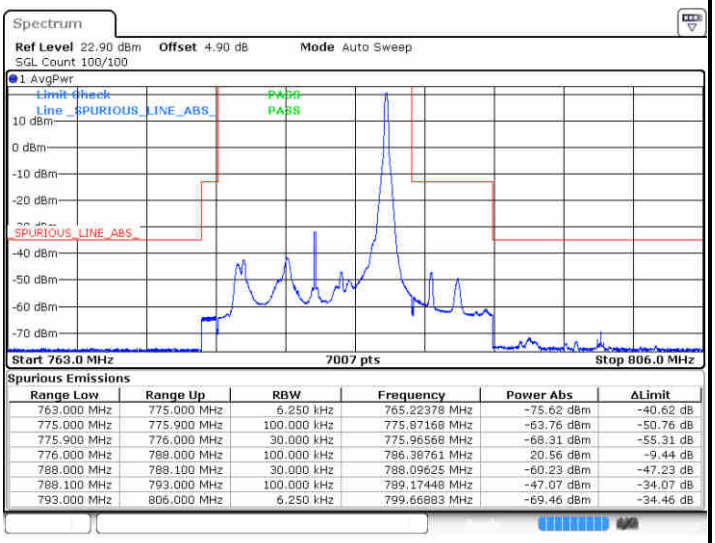


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.86214 MHz	-73.53 dBm	-38.53 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86538 MHz	-60.02 dBm	-47.02 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99545 MHz	-63.37 dBm	-50.37 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.62438 MHz	20.75 dBm	-9.25 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03022 MHz	-67.20 dBm	-54.20 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.84371 MHz	-55.76 dBm	-42.76 dB
793.000 MHz	806.000 MHz	6.250 kHz	799.61688 MHz	-69.95 dBm	-34.95 dB

Date: 20.OCT.2019 07:02:53

Highest Band Edge / 1 RB

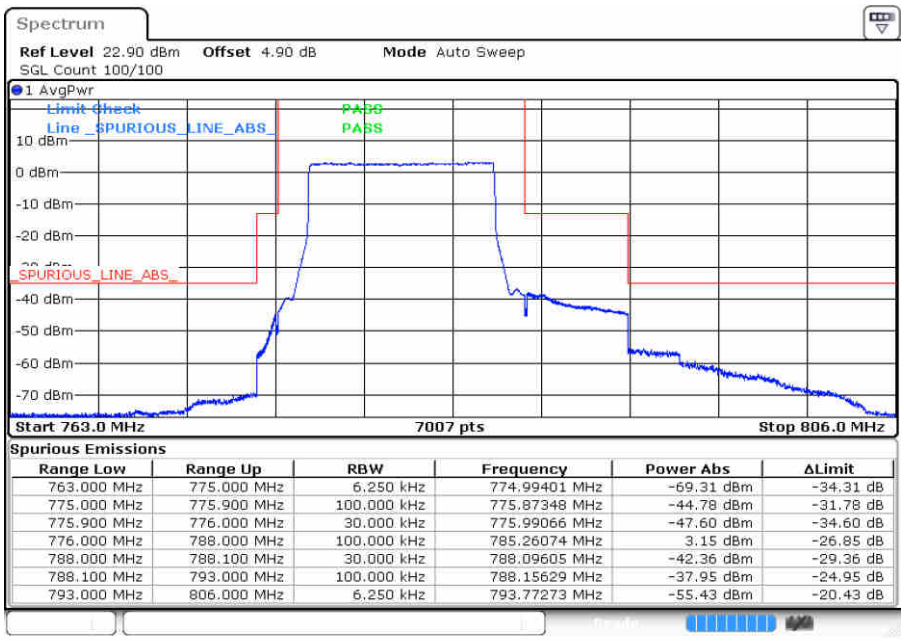


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	765.22378 MHz	-75.62 dBm	-40.62 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87168 MHz	-63.76 dBm	-50.76 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96568 MHz	-68.31 dBm	-55.31 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	20.56 dBm	-9.44 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09625 MHz	-60.23 dBm	-47.23 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.17448 MHz	-47.07 dBm	-34.07 dB
793.000 MHz	806.000 MHz	6.250 kHz	799.66883 MHz	-69.46 dBm	-34.46 dB

Date: 20.OCT.2019 07:09:24

Band Edge / Full RB



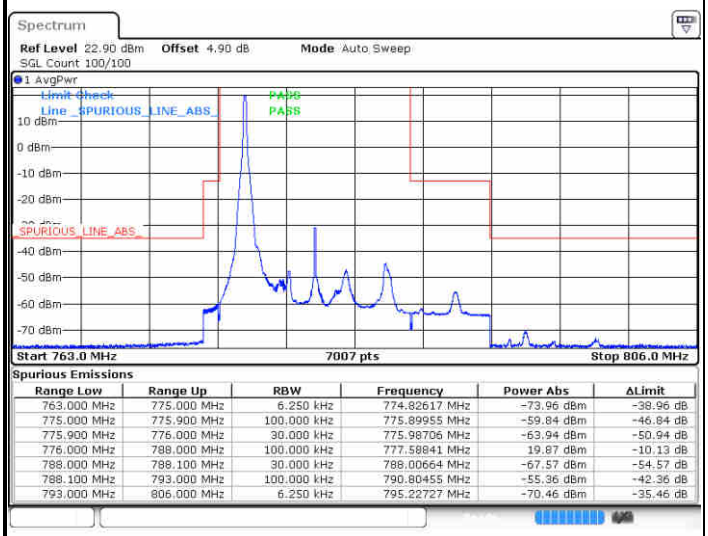
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-69.31 dBm	-34.31 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87348 MHz	-44.78 dBm	-31.78 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99066 MHz	-47.60 dBm	-34.60 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.26074 MHz	3.15 dBm	-26.85 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09605 MHz	-42.36 dBm	-29.36 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15629 MHz	-37.95 dBm	-24.95 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.77273 MHz	-55.43 dBm	-20.43 dB

Date: 20.OCT.2019 07:04:31

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

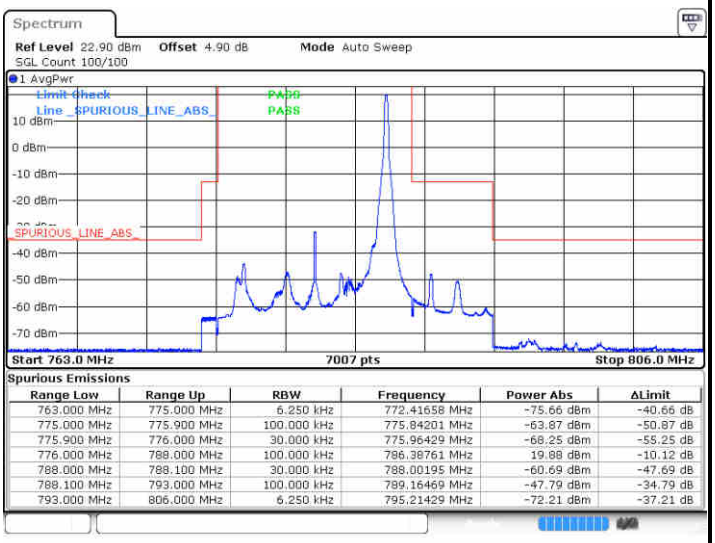


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.82617 MHz	-73.96 dBm	-38.96 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89955 MHz	-59.84 dBm	-46.84 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98706 MHz	-63.94 dBm	-50.94 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	19.87 dBm	-10.13 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00664 MHz	-67.57 dBm	-54.57 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.80455 MHz	-55.36 dBm	-42.36 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.22727 MHz	-70.46 dBm	-35.46 dB

Date: 20.OCT.2019 07:01:16

Highest Band Edge / 1 RB

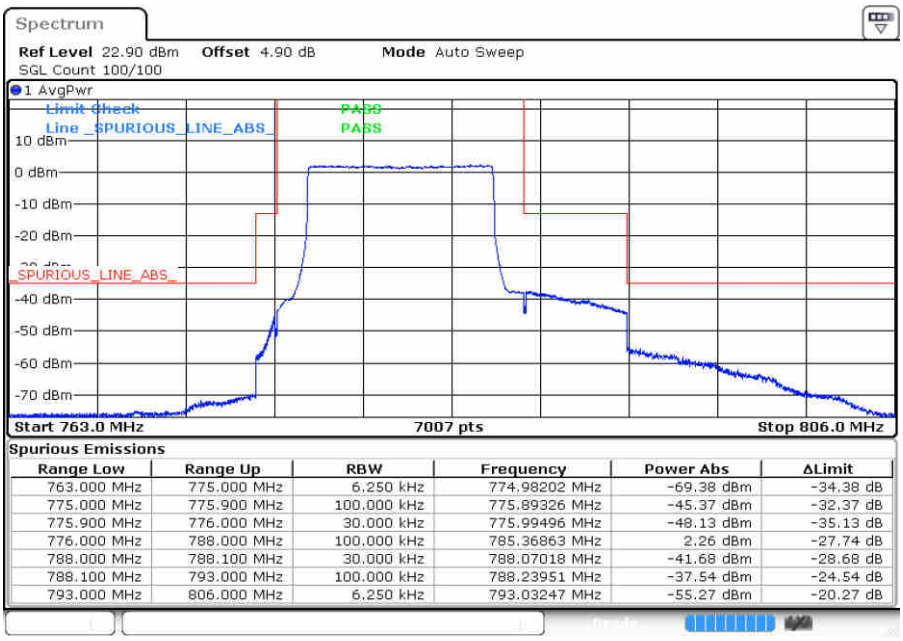


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	772.41658 MHz	-75.66 dBm	-40.66 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.84201 MHz	-63.87 dBm	-50.87 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96429 MHz	-68.25 dBm	-55.25 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	19.88 dBm	-10.12 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00195 MHz	-60.69 dBm	-47.69 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.16469 MHz	-47.79 dBm	-34.79 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.21429 MHz	-72.21 dBm	-37.21 dB

Date: 20.OCT.2019 07:07:46

Band Edge / Full RB



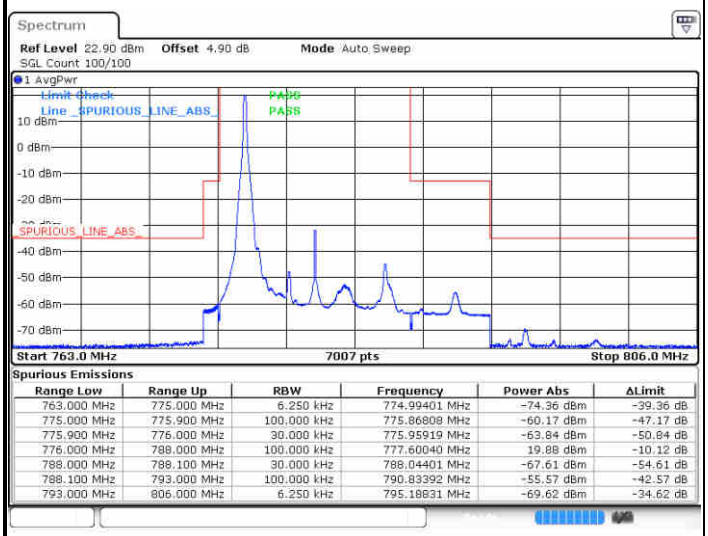
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.98202 MHz	-69.38 dBm	-34.38 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89326 MHz	-45.37 dBm	-32.37 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99496 MHz	-48.13 dBm	-35.13 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.36863 MHz	2.26 dBm	-27.74 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07018 MHz	-41.68 dBm	-28.68 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.23951 MHz	-37.54 dBm	-24.54 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.03247 MHz	-55.27 dBm	-20.27 dB

Date: 20.OCT.2019 07:06:08

LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

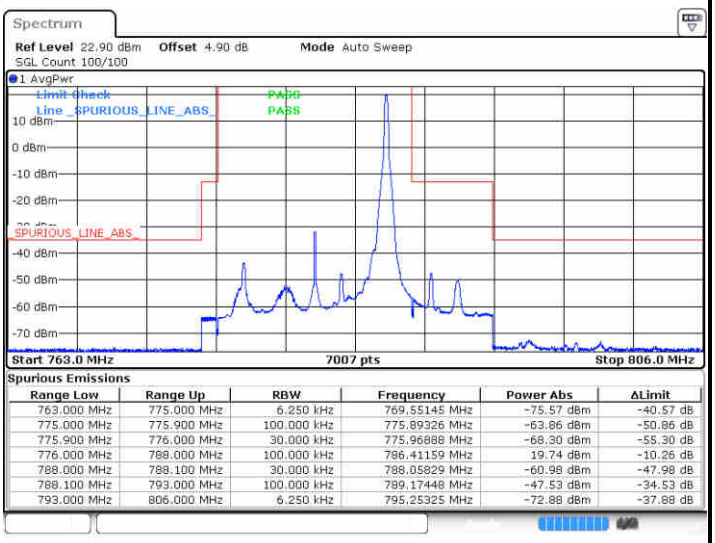


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-74.36 dBm	-39.36 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86808 MHz	-60.17 dBm	-47.17 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.95919 MHz	-63.84 dBm	-50.84 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.60040 MHz	19.88 dBm	-10.12 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.04401 MHz	-67.61 dBm	-54.61 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.83392 MHz	-55.57 dBm	-42.57 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.18831 MHz	-69.62 dBm	-34.62 dB

Date: 20.OCT.2019 07:18:52

Highest Band Edge / 1 RB

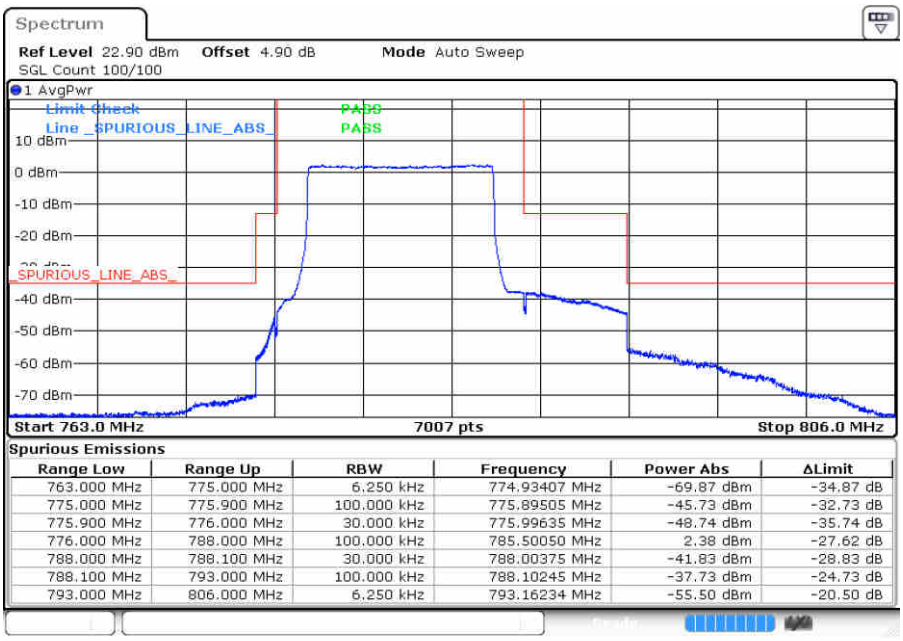


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.55145 MHz	-75.57 dBm	-40.57 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89326 MHz	-63.86 dBm	-50.86 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96888 MHz	-68.30 dBm	-55.30 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.41159 MHz	19.74 dBm	-10.26 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05829 MHz	-60.98 dBm	-47.98 dB
788.100 MHz	793.000 MHz	100.000 kHz	789.17448 MHz	-47.53 dBm	-34.53 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.25325 MHz	-72.88 dBm	-37.88 dB

Date: 20.OCT.2019 07:20:29

Band Edge / Full RB



Spurious Emissions

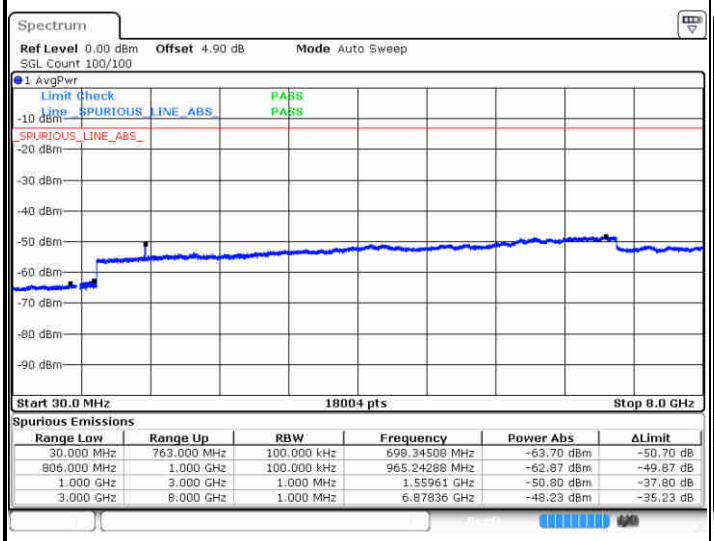
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.93407 MHz	-69.87 dBm	-34.87 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89505 MHz	-45.73 dBm	-32.73 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99635 MHz	-48.74 dBm	-35.74 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.50050 MHz	2.38 dBm	-27.62 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00375 MHz	-41.83 dBm	-28.83 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-37.73 dBm	-24.73 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-55.50 dBm	-20.50 dB

Date: 20.OCT.2019 07:22:07

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

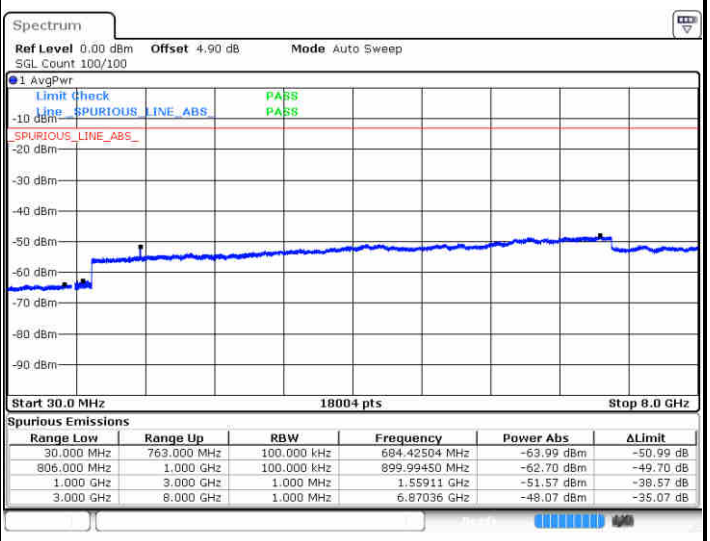


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	698.34508 MHz	-63.70 dBm	-50.70 dB
806.000 MHz	1.000 GHz	100.000 kHz	965.24288 MHz	-62.87 dBm	-49.87 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55961 GHz	-50.80 dBm	-37.80 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87836 GHz	-48.23 dBm	-35.23 dB

Date: 20.OCT.2019 06:39:58

Lowest Channel / 16QAM

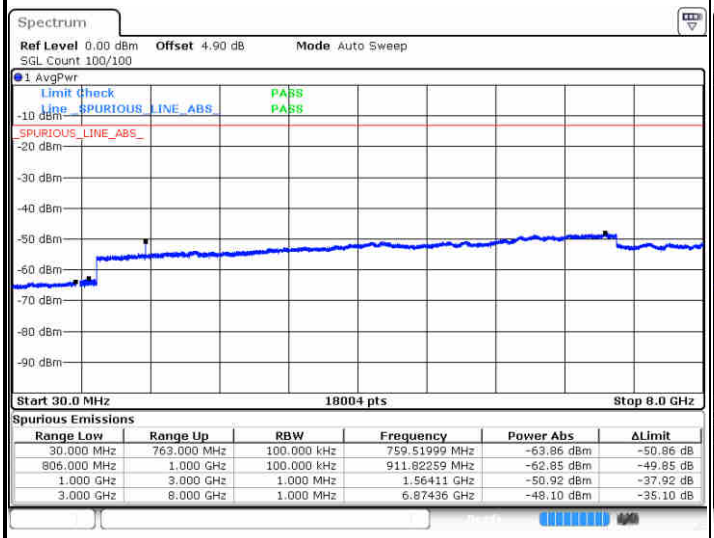


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	684.42504 MHz	-63.99 dBm	-50.99 dB
806.000 MHz	1.000 GHz	100.000 kHz	899.99450 MHz	-62.70 dBm	-49.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55911 GHz	-51.57 dBm	-38.57 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87036 GHz	-48.07 dBm	-35.07 dB

Date: 20.OCT.2019 06:39:34

Middle Channel / QPSK

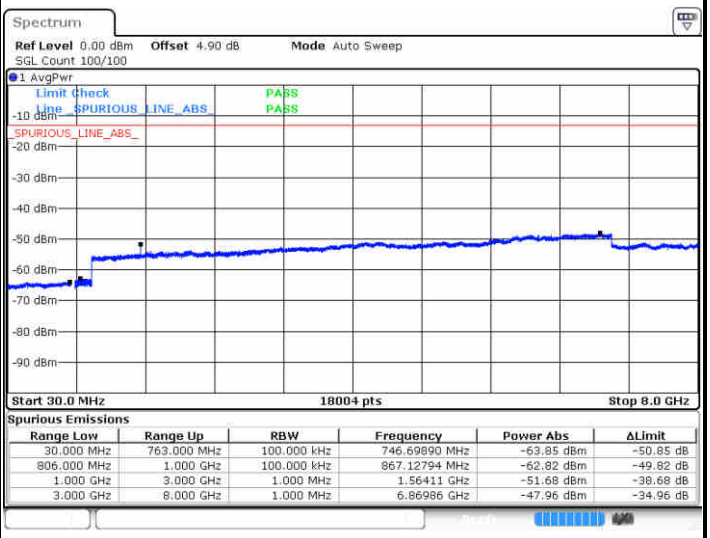


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	759.51999 MHz	-63.86 dBm	-50.86 dB
806.000 MHz	1.000 GHz	100.000 kHz	911.82259 MHz	-62.85 dBm	-49.85 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56411 GHz	-50.92 dBm	-37.92 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87436 GHz	-48.10 dBm	-35.10 dB

Date: 20.OCT.2019 06:40:25

Middle Channel / 16QAM



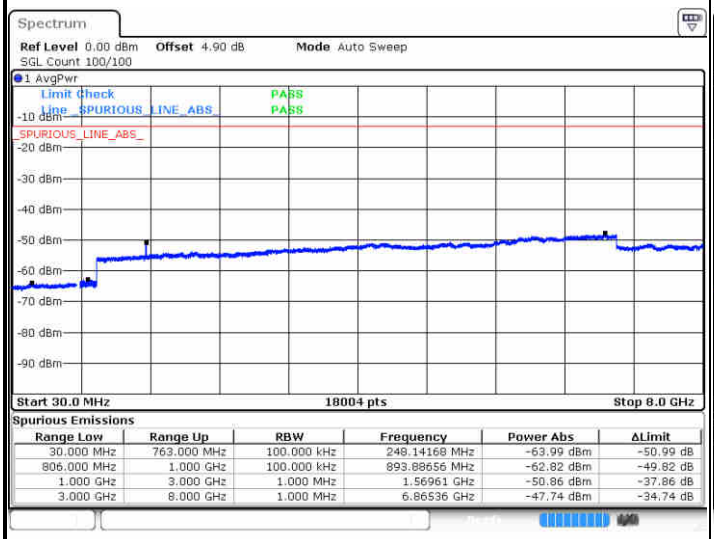
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	746.69890 MHz	-63.85 dBm	-50.85 dB
806.000 MHz	1.000 GHz	100.000 kHz	867.12794 MHz	-62.82 dBm	-49.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56411 GHz	-51.68 dBm	-38.68 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86986 GHz	-47.96 dBm	-34.96 dB

Date: 20.OCT.2019 06:40:54

LTE Band 13 / 5MHz

Highest Channel / QPSK

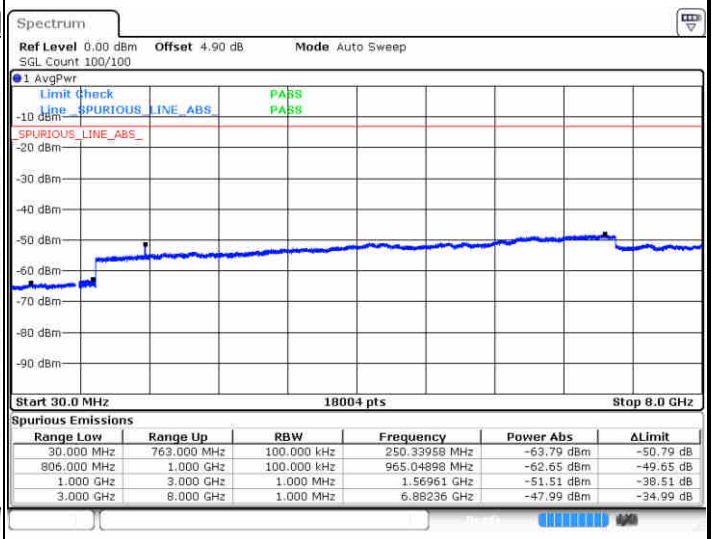


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	248.14168 MHz	-63.99 dBm	-50.99 dB
806.000 MHz	1.000 GHz	100.000 kHz	893.88656 MHz	-62.82 dBm	-49.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56961 GHz	-50.86 dBm	-37.86 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86536 GHz	-47.74 dBm	-34.74 dB

Date: 20.OCT.2019 06:42:45

Highest Channel / 16QAM



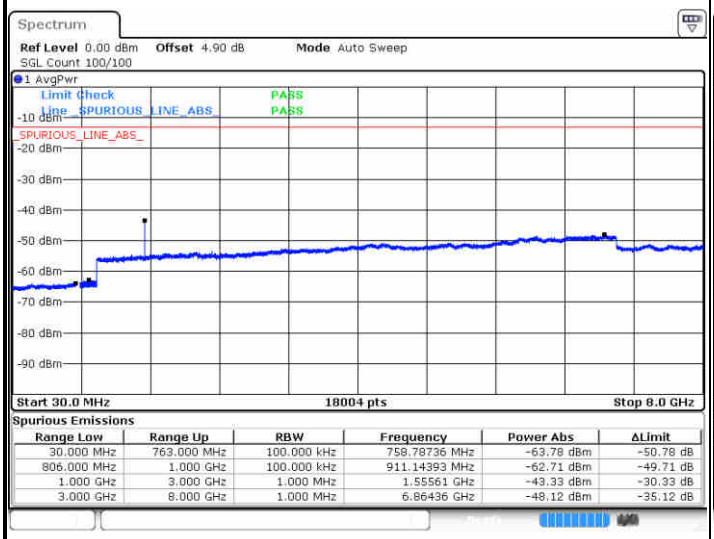
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	250.33958 MHz	-63.79 dBm	-50.79 dB
806.000 MHz	1.000 GHz	100.000 kHz	965.04898 MHz	-62.65 dBm	-49.65 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56961 GHz	-51.51 dBm	-38.51 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88236 GHz	-47.99 dBm	-34.99 dB

Date: 20.OCT.2019 06:42:19

LTE Band 13 / 10MHz

Middle Channel / QPSK

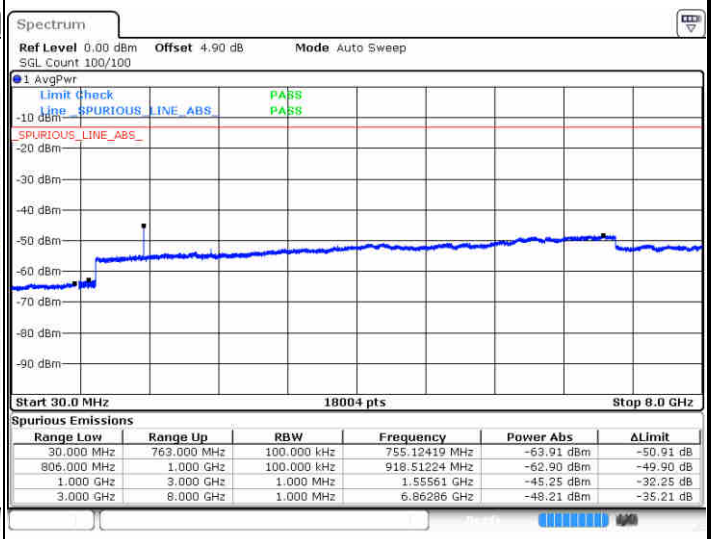


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	758.78736 MHz	-63.78 dBm	-50.78 dB
806.000 MHz	1.000 GHz	100.000 kHz	911.14393 MHz	-62.71 dBm	-49.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-43.33 dBm	-30.33 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86436 GHz	-48.12 dBm	-35.12 dB

Date: 20.OCT.2019 06:32:51

Middle Channel / 16QAM



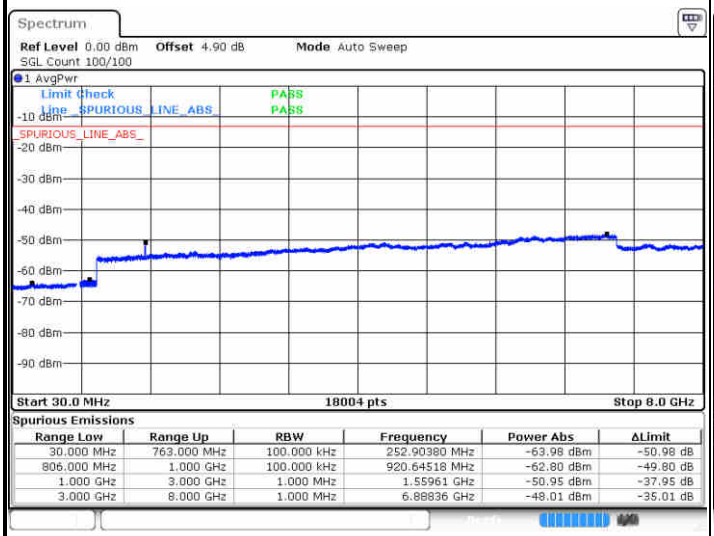
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	755.12419 MHz	-63.91 dBm	-50.91 dB
806.000 MHz	1.000 GHz	100.000 kHz	918.51224 MHz	-62.90 dBm	-49.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-45.25 dBm	-32.25 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86286 GHz	-48.21 dBm	-35.21 dB

Date: 20.OCT.2019 06:33:47

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

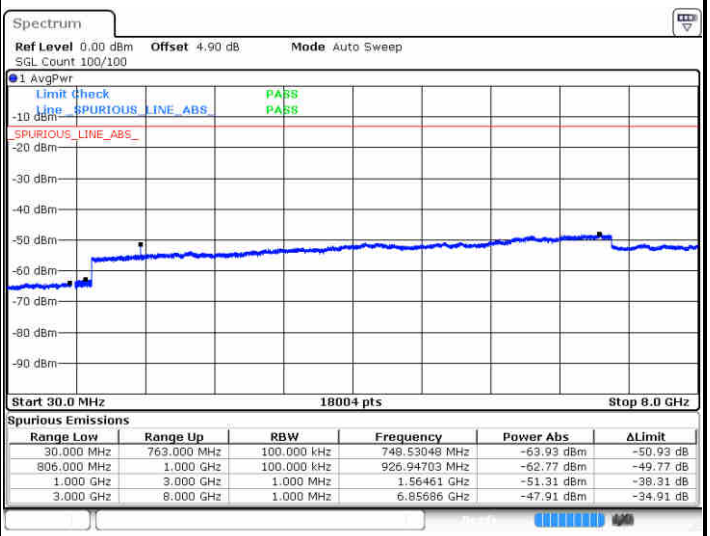


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	252.90380 MHz	-63.98 dBm	-50.98 dB
806.000 MHz	1.000 GHz	100.000 kHz	920.64518 MHz	-62.80 dBm	-49.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55961 GHz	-50.95 dBm	-37.95 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88836 GHz	-48.01 dBm	-35.01 dB

Date: 20.OCT.2019 06:39:10

Middle Channel / 64QAM

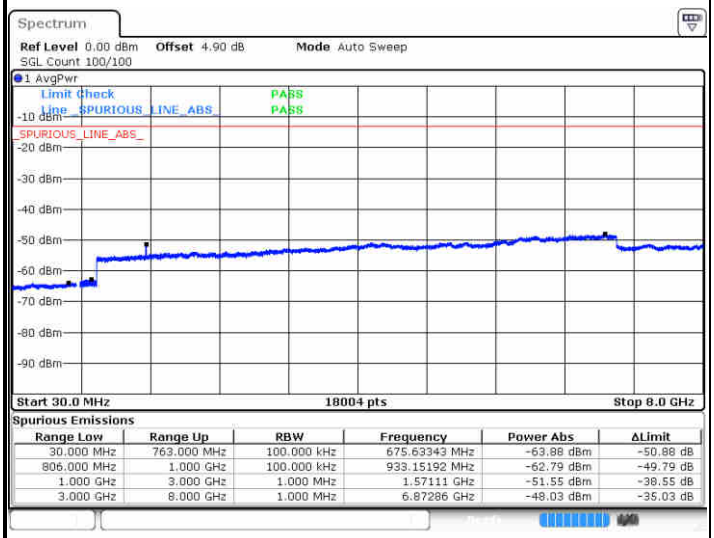


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	748.53048 MHz	-63.93 dBm	-50.93 dB
806.000 MHz	1.000 GHz	100.000 kHz	926.94703 MHz	-62.77 dBm	-49.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56461 GHz	-51.31 dBm	-38.31 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.85686 GHz	-47.91 dBm	-34.91 dB

Date: 20.OCT.2019 06:41:24

Highest Channel / 64QAM

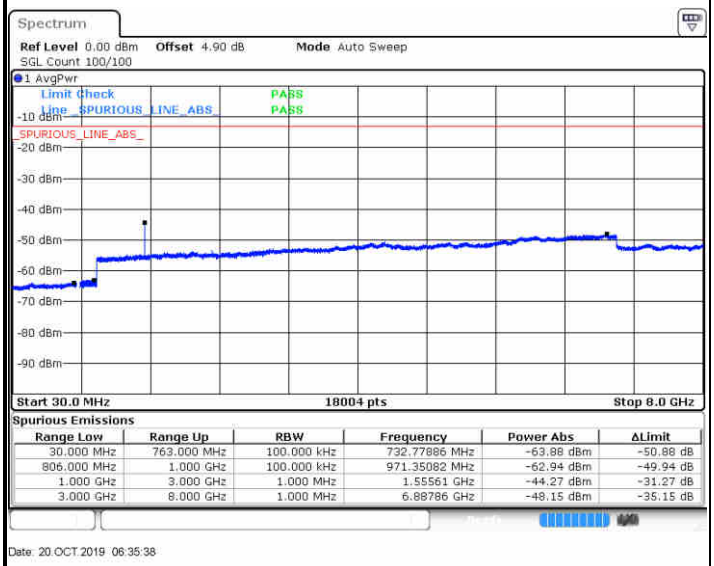


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	675.63343 MHz	-63.88 dBm	-50.88 dB
806.000 MHz	1.000 GHz	100.000 kHz	933.15192 MHz	-62.79 dBm	-49.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57111 GHz	-51.55 dBm	-38.55 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87286 GHz	-48.03 dBm	-35.03 dB

Date: 20.OCT.2019 06:41:53

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	732.77886 MHz	-63.88 dBm	-50.88 dB
806.000 MHz	1.000 GHz	100.000 kHz	971.35082 MHz	-62.94 dBm	-49.94 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-44.27 dBm	-31.27 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88786 GHz	-48.15 dBm	-35.15 dB

Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0057	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0055	
-10	Normal Voltage	0.0015	
-20	Normal Voltage	0.0078	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

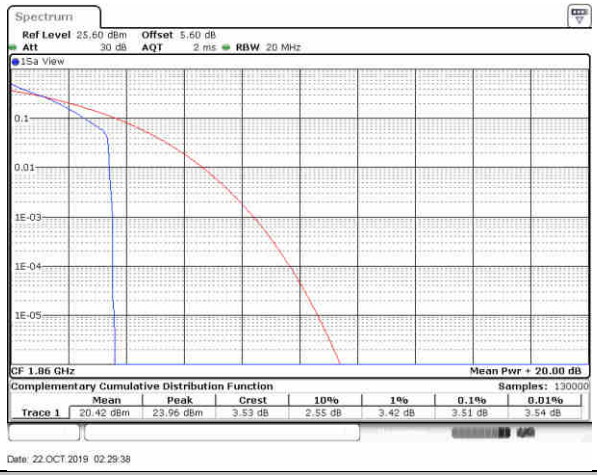
LTE Band 25

Peak-to-Average Ratio

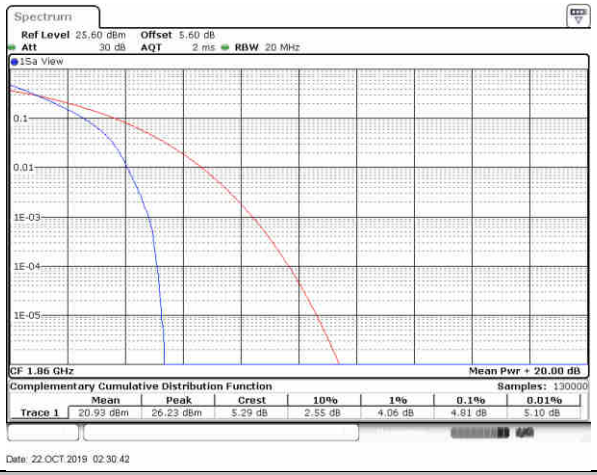
Mode	LTE Band 25 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.51	4.81	5.45	6.12	PASS
Middle CH	3.71	4.67	5.16	6.06	
Highest CH	3.80	4.64	5.83	6.12	
Mode	LTE Band 25 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.64	6.67			PASS
Middle CH	6.64	6.52			
Highest CH	6.58	6.64			

LTE Band 25 / 20MHz / QPSK

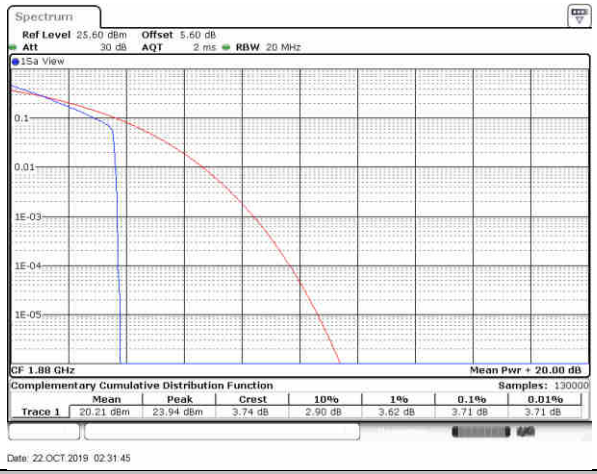
Lowest Channel / 1RB



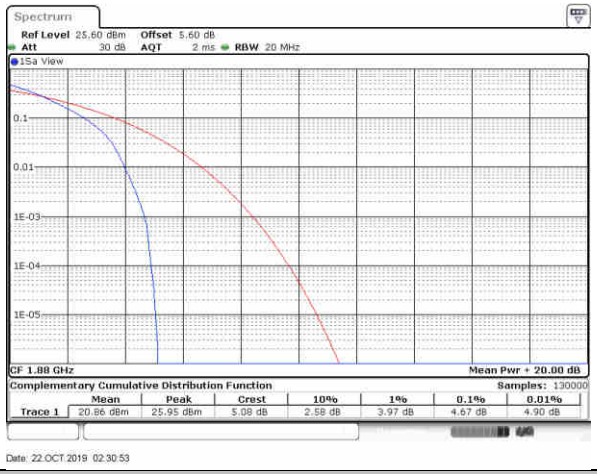
Lowest Channel / Full RB



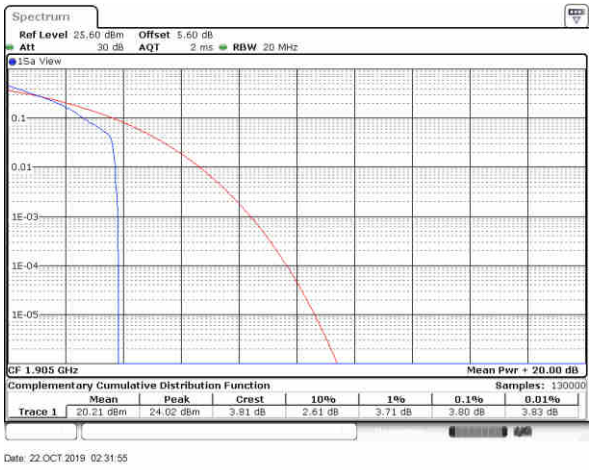
Middle Channel / 1RB



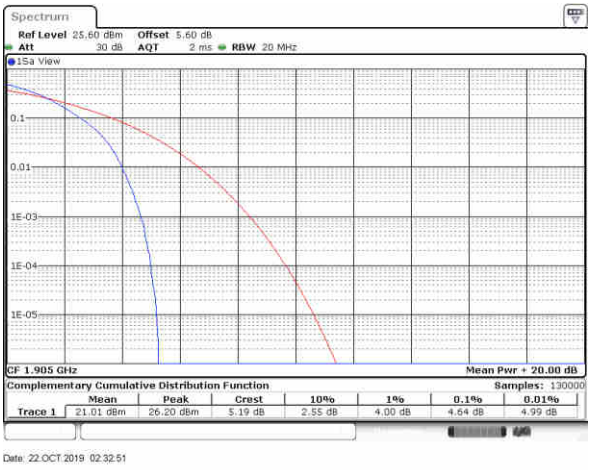
Middle Channel / Full RB



Highest Channel / 1RB

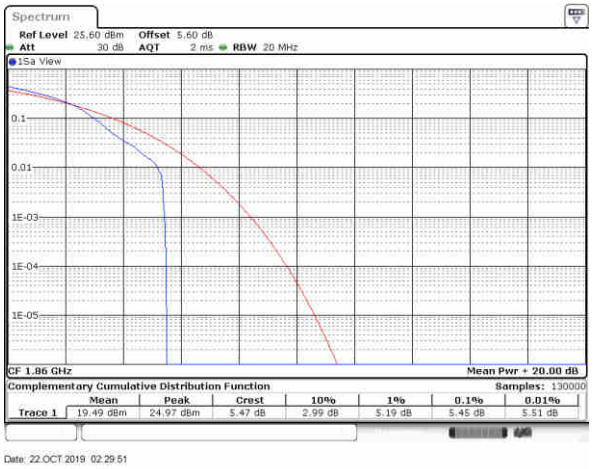


Highest Channel / Full RB

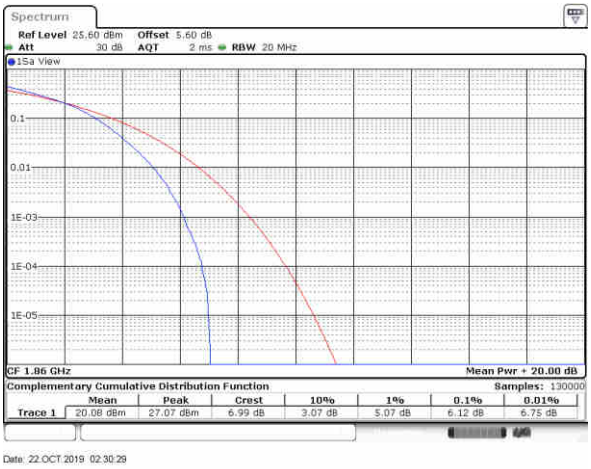


LTE Band 25 / 20MHz / 16QAM

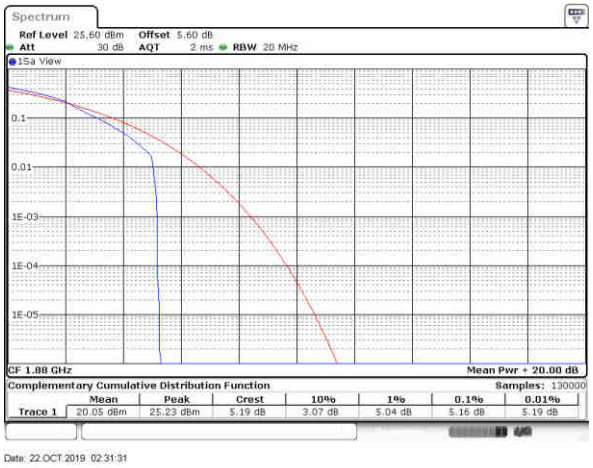
Lowest Channel / 1RB



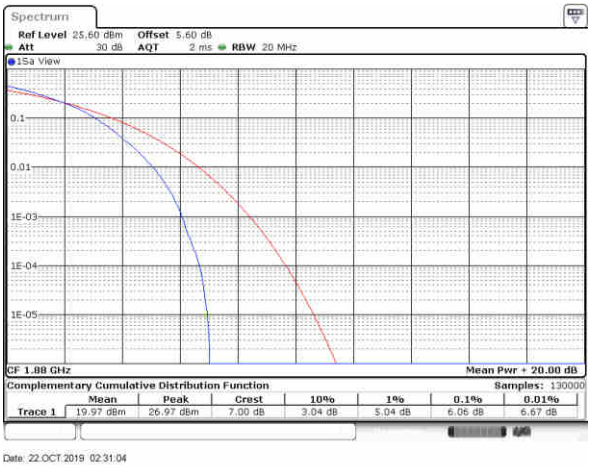
Lowest Channel / Full RB



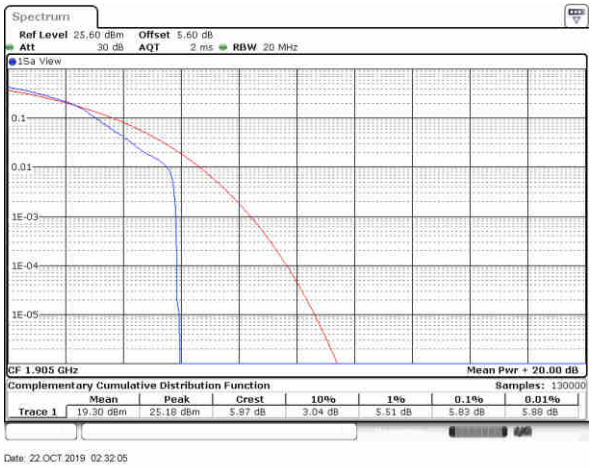
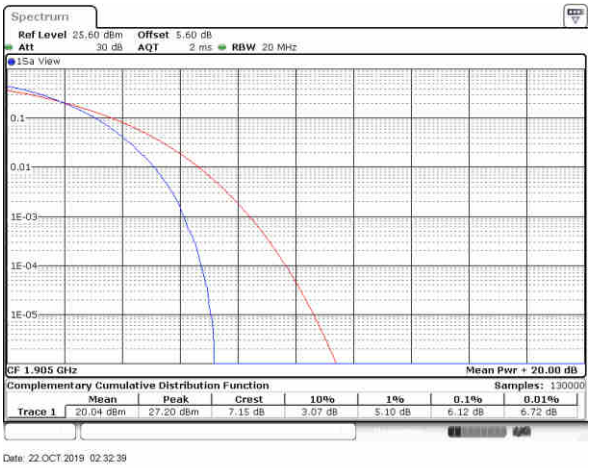
Middle Channel / 1RB



Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB