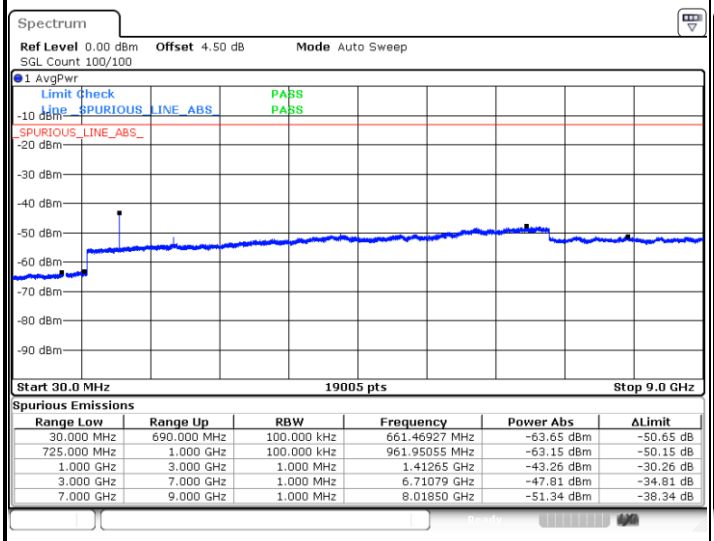
LTE Band 12 / 3MHz

Middle Channel / QPSK

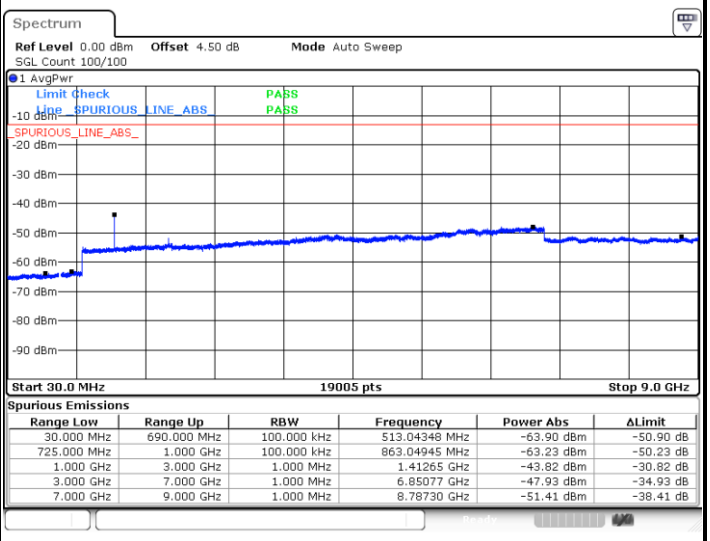


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	661.46927 MHz	-63.65 dBm	-50.65 dB
725.000 MHz	1.000 GHz	100.000 kHz	961.95055 MHz	-63.15 dBm	-50.15 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-43.26 dBm	-30.26 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.71079 GHz	-47.81 dBm	-34.81 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01850 GHz	-51.34 dBm	-38.34 dB

Date: 13.JUN.2020 13:51:56

Middle Channel / 16QAM

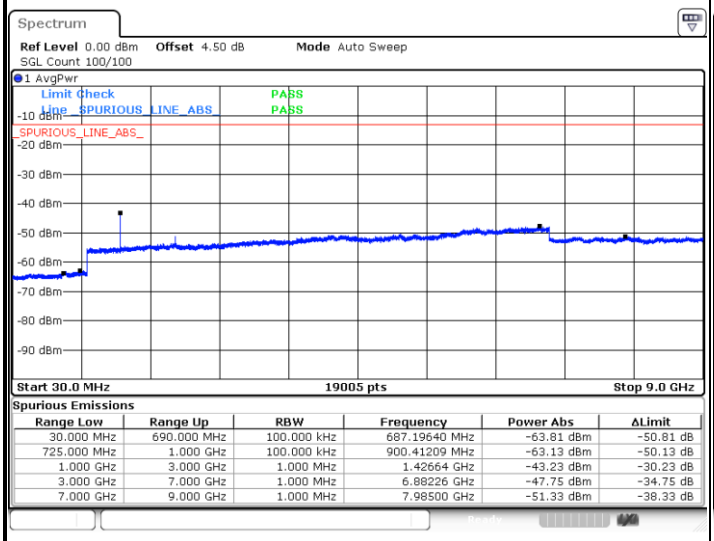


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	513.04348 MHz	-63.90 dBm	-50.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	863.04945 MHz	-63.23 dBm	-50.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-43.82 dBm	-30.82 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85077 GHz	-47.93 dBm	-34.93 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.78730 GHz	-51.41 dBm	-38.41 dB

Date: 13.JUN.2020 13:50:59

Highest Channel / QPSK

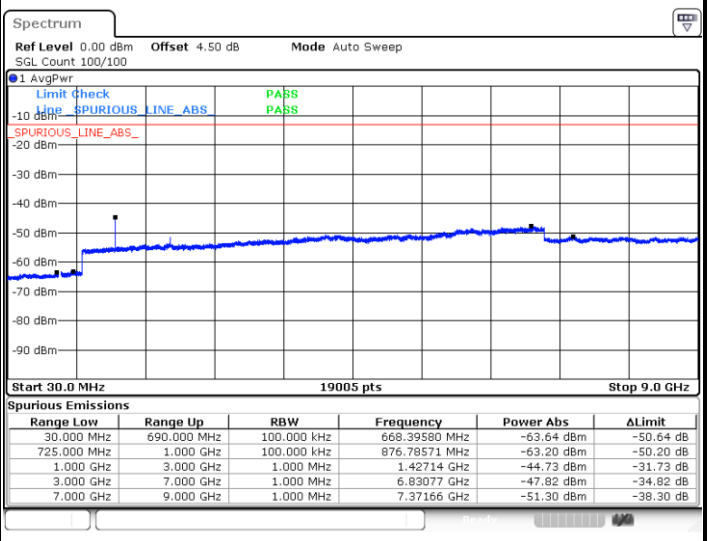


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	687.19640 MHz	-63.81 dBm	-50.81 dB
725.000 MHz	1.000 GHz	100.000 kHz	900.41209 MHz	-63.13 dBm	-50.13 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-43.23 dBm	-30.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88226 GHz	-47.75 dBm	-34.75 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.98500 GHz	-51.33 dBm	-38.33 dB

Date: 13.JUN.2020 13:52:52

Highest Channel / 16QAM



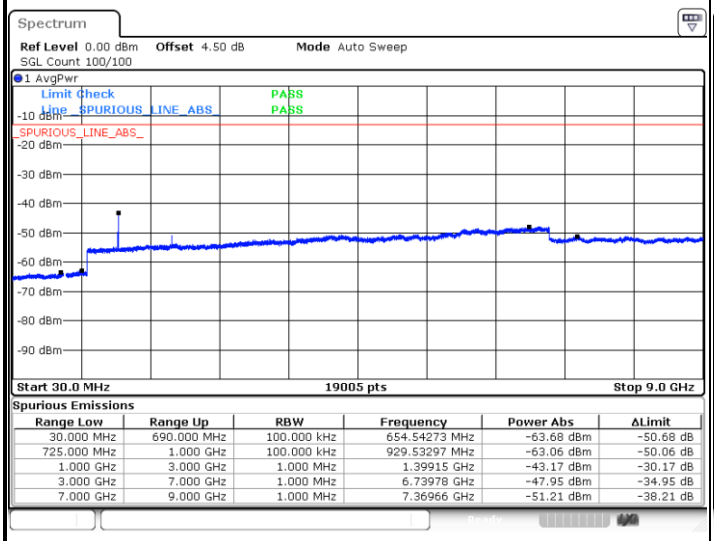
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	668.39580 MHz	-63.64 dBm	-50.64 dB
725.000 MHz	1.000 GHz	100.000 kHz	876.78571 MHz	-63.20 dBm	-50.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42714 GHz	-44.73 dBm	-31.73 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.83077 GHz	-47.82 dBm	-34.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37166 GHz	-51.30 dBm	-38.30 dB

Date: 13.JUN.2020 13:53:49

LTE Band 12 / 5MHz

Lowest Channel / QPSK

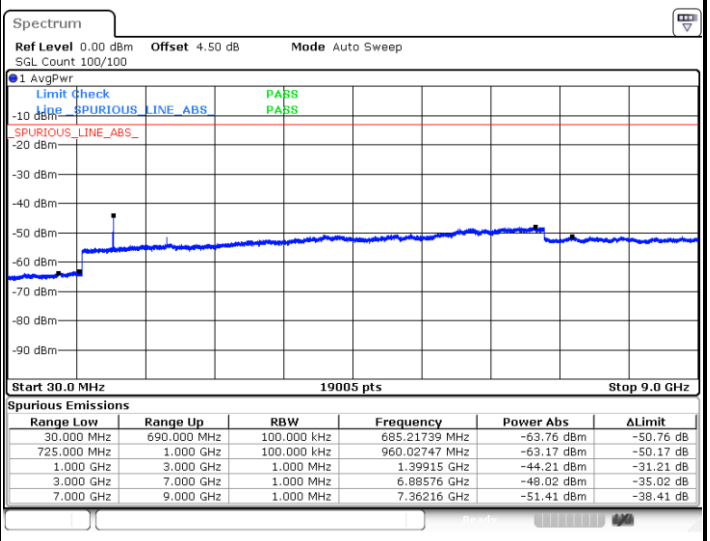


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	654.54273 MHz	-63.68 dBm	-50.68 dB
725.000 MHz	1.000 GHz	100.000 kHz	929.53297 MHz	-63.06 dBm	-50.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-43.17 dBm	-30.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.73978 GHz	-47.95 dBm	-34.95 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36966 GHz	-51.21 dBm	-38.21 dB

Date: 13.JUN.2020 14:05:50

Lowest Channel / 16QAM

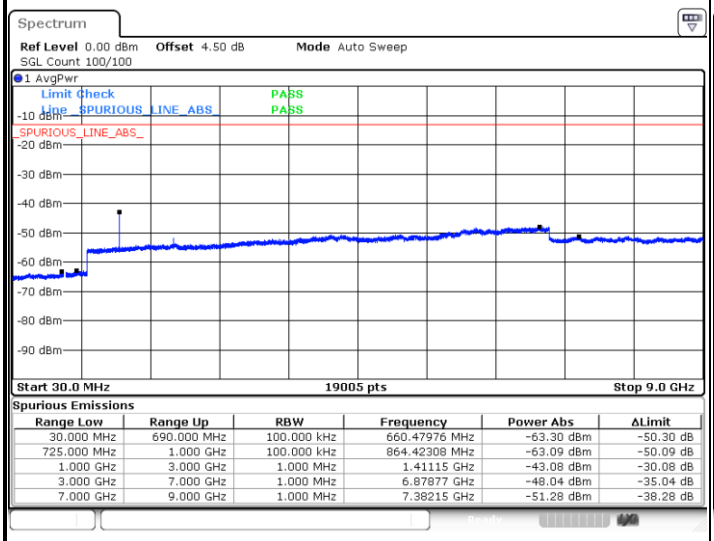


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	685.21739 MHz	-63.76 dBm	-50.76 dB
725.000 MHz	1.000 GHz	100.000 kHz	960.02747 MHz	-63.17 dBm	-50.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-44.21 dBm	-31.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88576 GHz	-48.02 dBm	-35.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36216 GHz	-51.41 dBm	-38.41 dB

Date: 13.JUN.2020 14:06:47

Middle Channel / QPSK

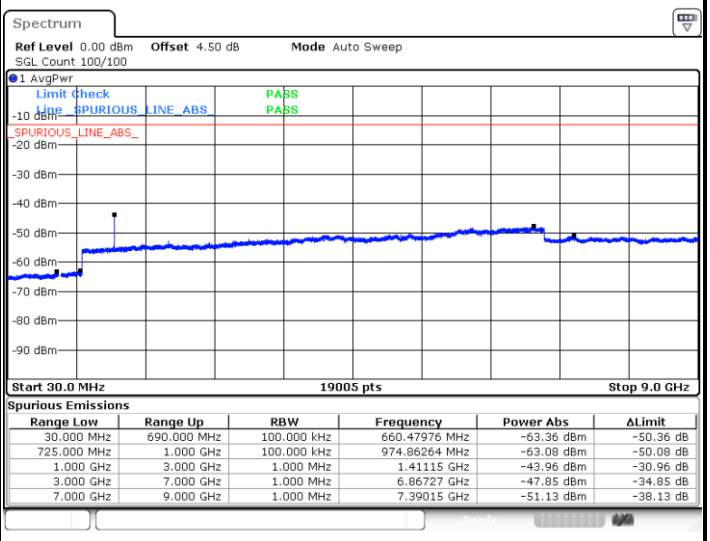


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	660.47976 MHz	-63.30 dBm	-50.30 dB
725.000 MHz	1.000 GHz	100.000 kHz	864.42308 MHz	-63.09 dBm	-50.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.08 dBm	-30.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87877 GHz	-48.04 dBm	-35.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38215 GHz	-51.28 dBm	-38.28 dB

Date: 13.JUN.2020 14:08:41

Middle Channel / 16QAM



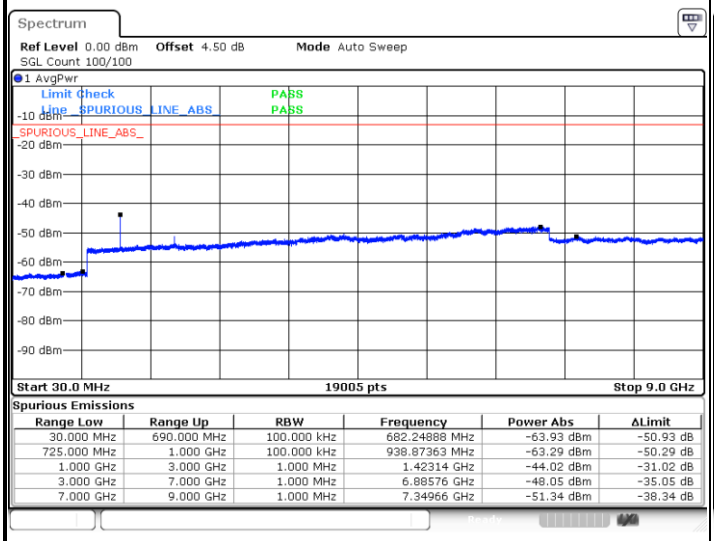
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	660.47976 MHz	-63.36 dBm	-50.36 dB
725.000 MHz	1.000 GHz	100.000 kHz	974.86264 MHz	-63.08 dBm	-50.08 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-43.96 dBm	-30.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86727 GHz	-47.85 dBm	-34.85 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39015 GHz	-51.13 dBm	-38.13 dB

Date: 13.JUN.2020 14:07:44

LTE Band 12 / 5MHz

Highest Channel / QPSK

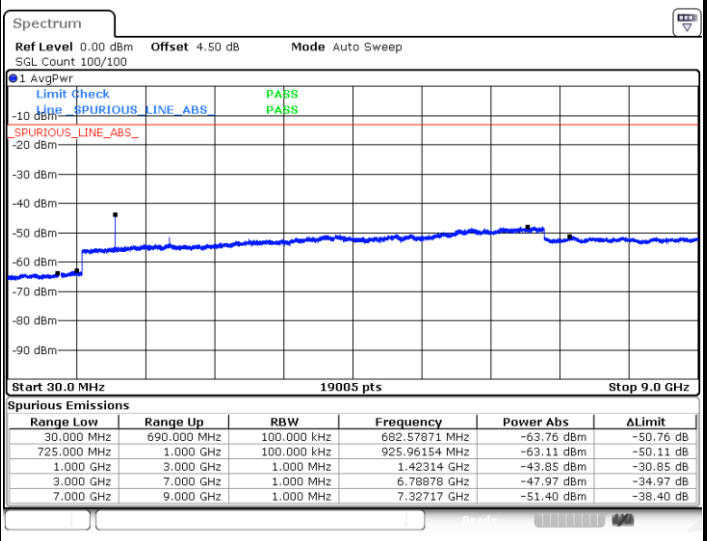


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.24888 MHz	-63.93 dBm	-50.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	938.87363 MHz	-63.29 dBm	-50.29 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-44.02 dBm	-31.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88576 GHz	-48.05 dBm	-35.05 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34966 GHz	-51.34 dBm	-38.34 dB

Date: 13.JUN.2020 14:09:37

Highest Channel / 16QAM



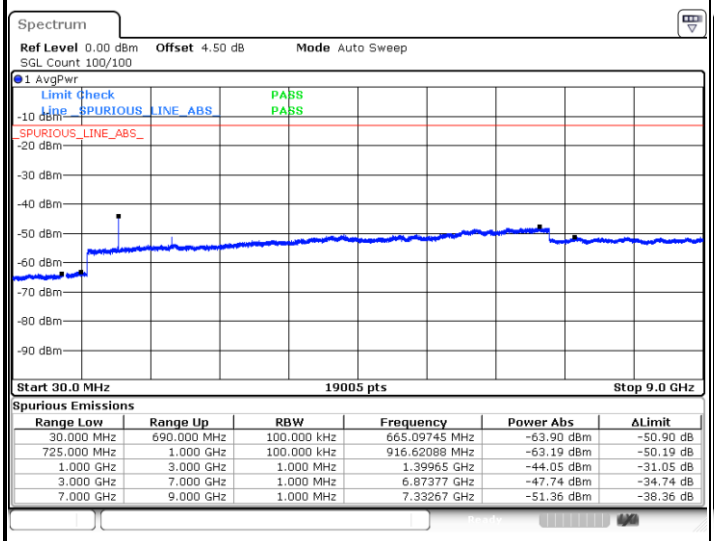
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	682.57871 MHz	-63.76 dBm	-50.76 dB
725.000 MHz	1.000 GHz	100.000 kHz	925.96154 MHz	-63.11 dBm	-50.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-43.85 dBm	-30.85 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.78878 GHz	-47.97 dBm	-34.97 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.32717 GHz	-51.40 dBm	-38.40 dB

Date: 13.JUN.2020 14:10:34

LTE Band 12 / 10MHz

Lowest Channel / QPSK

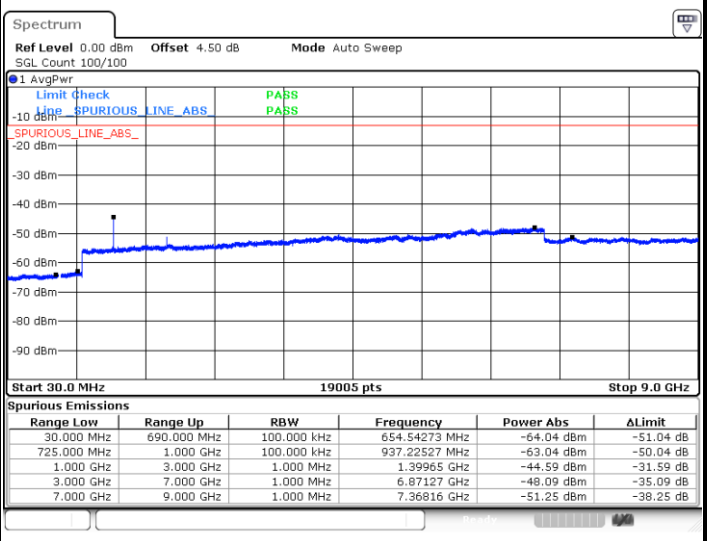


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	665.09745 MHz	-63.90 dBm	-50.90 dB
725.000 MHz	1.000 GHz	100.000 kHz	916.62088 MHz	-63.19 dBm	-50.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.05 dBm	-31.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87377 GHz	-47.74 dBm	-34.74 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33267 GHz	-51.36 dBm	-38.36 dB

Date: 13.JUN.2020 14:22:35

Lowest Channel / 16QAM



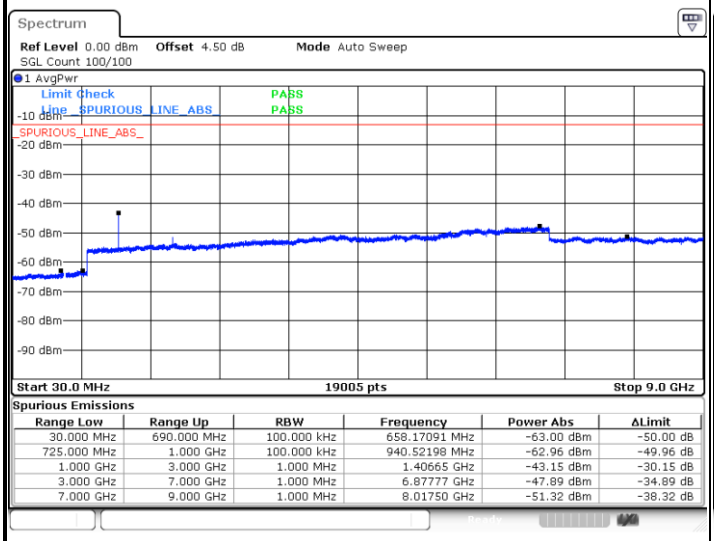
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	654.54273 MHz	-64.04 dBm	-51.04 dB
725.000 MHz	1.000 GHz	100.000 kHz	937.22527 MHz	-63.04 dBm	-50.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-44.59 dBm	-31.59 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87127 GHz	-48.09 dBm	-35.09 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36816 GHz	-51.25 dBm	-38.25 dB

Date: 13.JUN.2020 14:23:32

LTE Band 12 / 10MHz

Middle Channel / QPSK

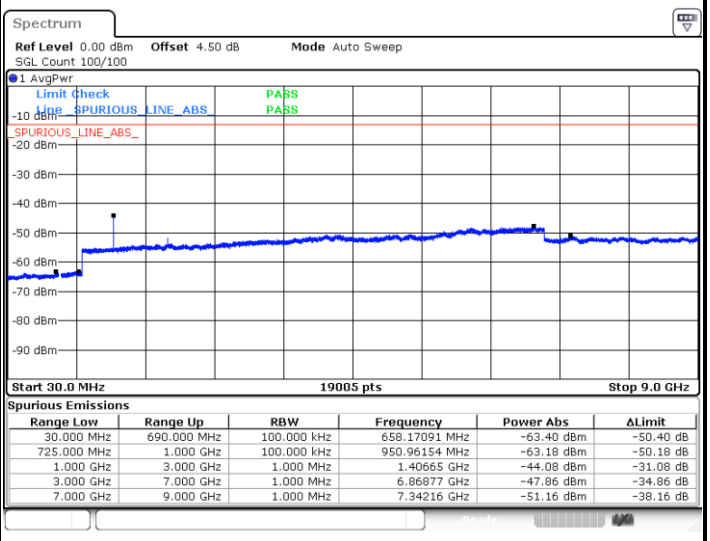


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	658.17091 MHz	-63.00 dBm	-50.00 dB
725.000 MHz	1.000 GHz	100.000 kHz	940.52198 MHz	-62.96 dBm	-49.96 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-43.15 dBm	-30.15 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87777 GHz	-47.89 dBm	-34.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01750 GHz	-51.32 dBm	-38.32 dB

Date: 13.JUN.2020 14:25:25

Middle Channel / 16QAM

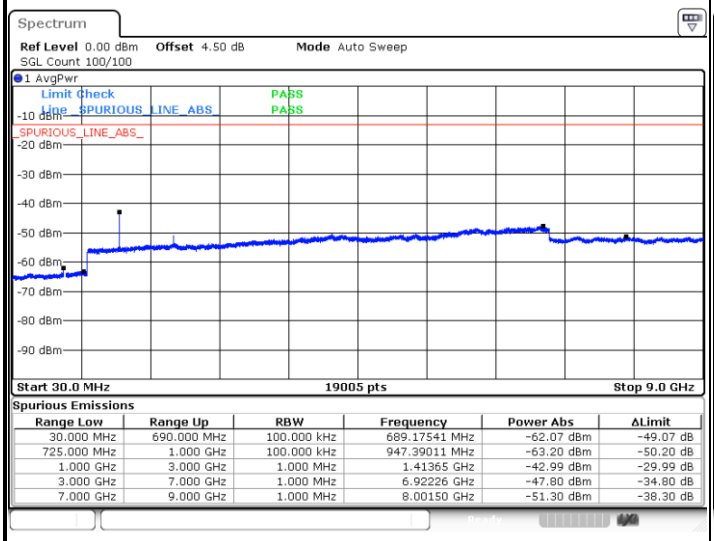


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	658.17091 MHz	-63.40 dBm	-50.40 dB
725.000 MHz	1.000 GHz	100.000 kHz	950.96154 MHz	-63.18 dBm	-50.18 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-44.08 dBm	-31.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86877 GHz	-47.86 dBm	-34.86 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34216 GHz	-51.16 dBm	-38.16 dB

Date: 13.JUN.2020 14:24:28

Highest Channel / QPSK

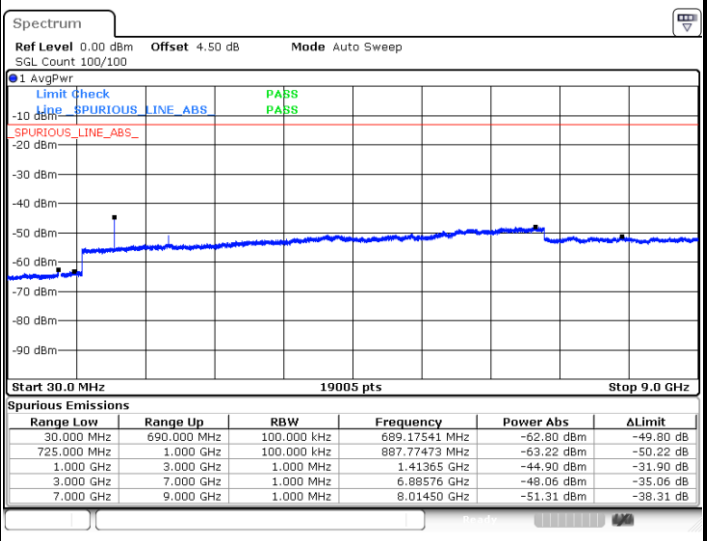


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-62.07 dBm	-49.07 dB
725.000 MHz	1.000 GHz	100.000 kHz	947.39011 MHz	-63.20 dBm	-50.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-42.99 dBm	-29.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92226 GHz	-47.80 dBm	-34.80 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.00150 GHz	-51.30 dBm	-38.30 dB

Date: 13.JUN.2020 14:26:22

Highest Channel / 16QAM



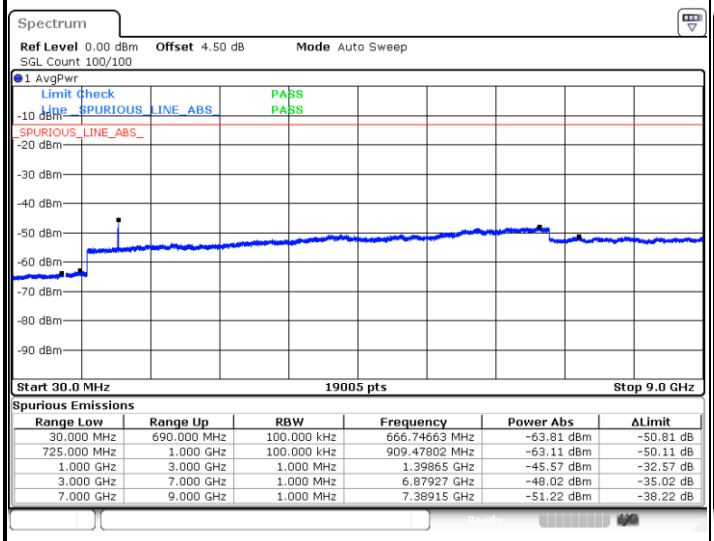
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-62.80 dBm	-49.80 dB
725.000 MHz	1.000 GHz	100.000 kHz	887.77473 MHz	-63.22 dBm	-50.22 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-44.90 dBm	-31.90 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88576 GHz	-48.06 dBm	-35.06 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01450 GHz	-51.31 dBm	-38.31 dB

Date: 13.JUN.2020 14:27:18

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	666.74663 MHz	-63.81 dBm	-50.81 dB
725.000 MHz	1.000 GHz	100.000 kHz	909.47802 MHz	-63.11 dBm	-50.11 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.57 dBm	-32.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87927 GHz	-48.02 dBm	-35.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38915 GHz	-51.22 dBm	-38.22 dB

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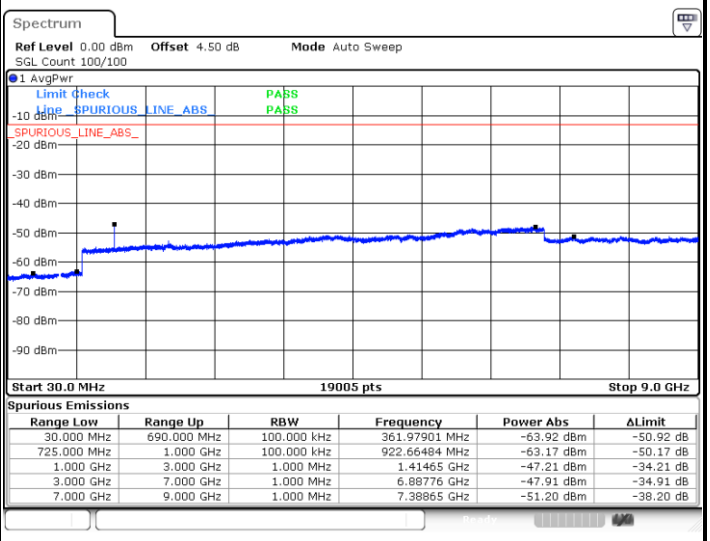
Middle Channel / 64QAM

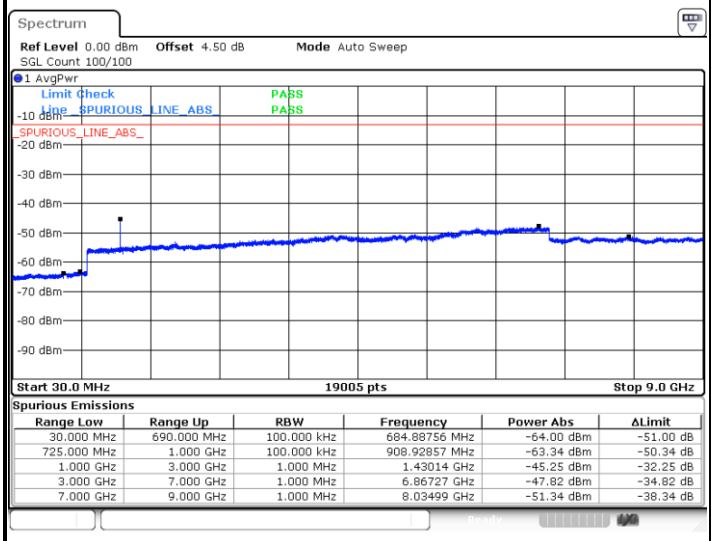


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	361.97901 MHz	-63.92 dBm	-50.92 dB
725.000 MHz	1.000 GHz	100.000 kHz	922.66484 MHz	-63.17 dBm	-50.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41465 GHz	-47.21 dBm	-34.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88776 GHz	-47.91 dBm	-34.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38865 GHz	-51.20 dBm	-38.20 dB

Date: 13.JUN.2020 14:43:45

Highest Channel / 64QAM



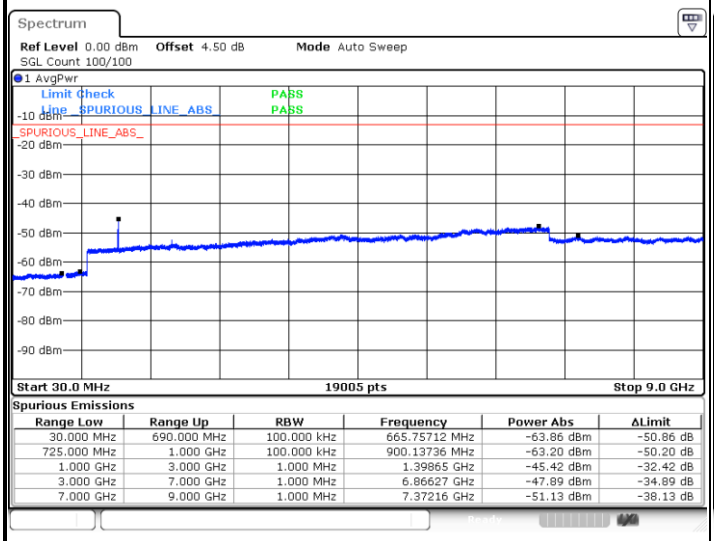
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	684.88756 MHz	-64.00 dBm	-51.00 dB
725.000 MHz	1.000 GHz	100.000 kHz	908.92857 MHz	-63.34 dBm	-50.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.43014 GHz	-45.25 dBm	-32.25 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86727 GHz	-47.82 dBm	-34.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.03499 GHz	-51.34 dBm	-38.34 dB

Date: 13.JUN.2020 14:44:42

LTE Band 12 / 3MHz

Lowest Channel / 64QAM

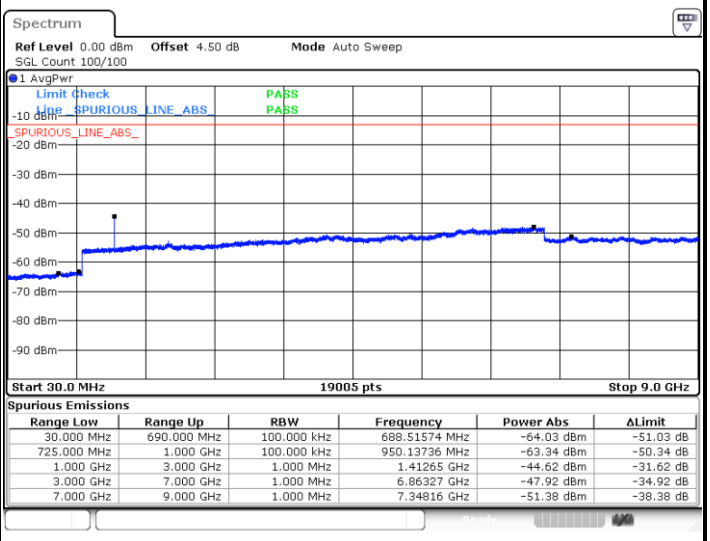


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	665.75712 MHz	-63.86 dBm	-50.86 dB
725.000 MHz	1.000 GHz	100.000 kHz	900.13736 MHz	-63.20 dBm	-50.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39865 GHz	-45.42 dBm	-32.42 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86627 GHz	-47.89 dBm	-34.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37216 GHz	-51.13 dBm	-38.13 dB

Date: 13.JUN.2020 14:45:39

Middle Channel / 64QAM

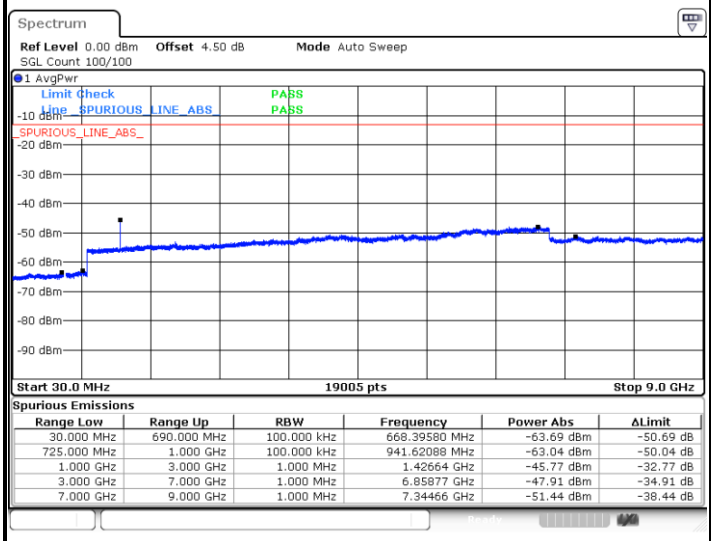


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	688.51574 MHz	-64.03 dBm	-51.03 dB
725.000 MHz	1.000 GHz	100.000 kHz	950.13736 MHz	-63.34 dBm	-50.34 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41265 GHz	-44.62 dBm	-31.62 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86327 GHz	-47.92 dBm	-34.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34816 GHz	-51.38 dBm	-38.38 dB

Date: 13.JUN.2020 14:46:36

Highest Channel / 64QAM



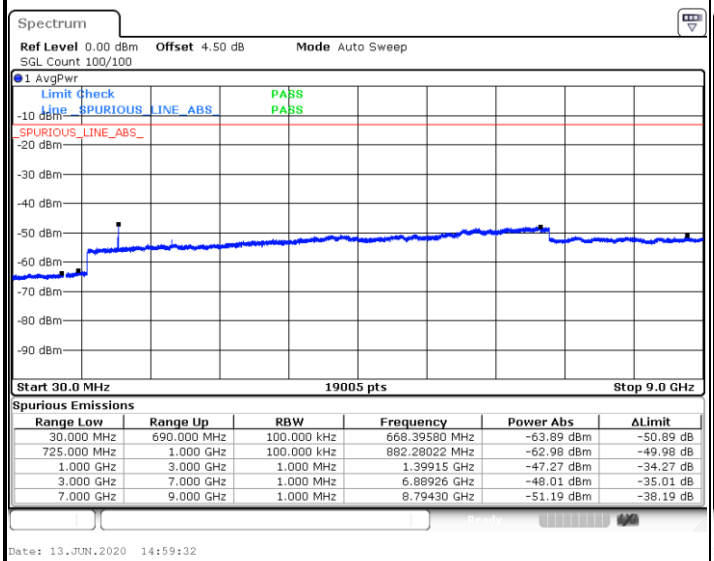
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	668.39580 MHz	-63.69 dBm	-50.69 dB
725.000 MHz	1.000 GHz	100.000 kHz	941.62088 MHz	-63.04 dBm	-50.04 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42664 GHz	-45.77 dBm	-32.77 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85877 GHz	-47.91 dBm	-34.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34466 GHz	-51.44 dBm	-38.44 dB

Date: 13.JUN.2020 14:47:32

LTE Band 12 / 5MHz

Lowest Channel / 64QAM

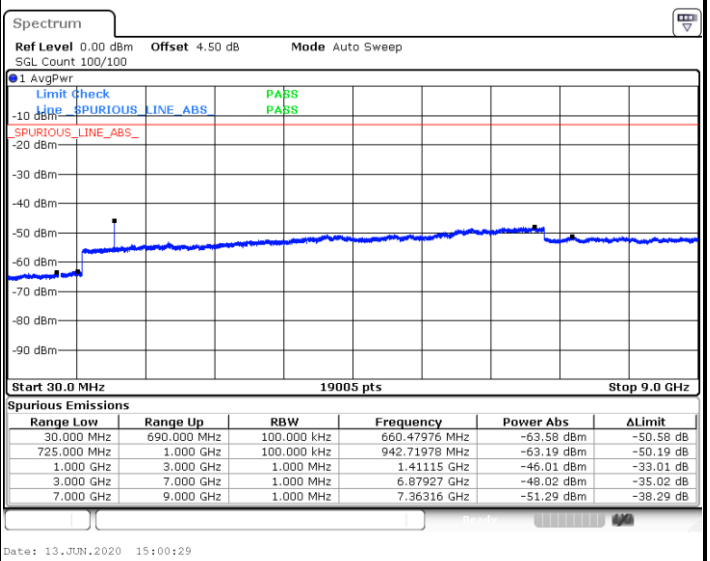


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	668.39580 MHz	-63.89 dBm	-50.89 dB
725.000 MHz	1.000 GHz	100.000 kHz	882.28022 MHz	-62.98 dBm	-49.98 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39915 GHz	-47.27 dBm	-34.27 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88926 GHz	-48.01 dBm	-35.01 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.79430 GHz	-51.19 dBm	-38.19 dB

Date: 13.JUN.2020 14:59:32

Middle Channel / 64QAM

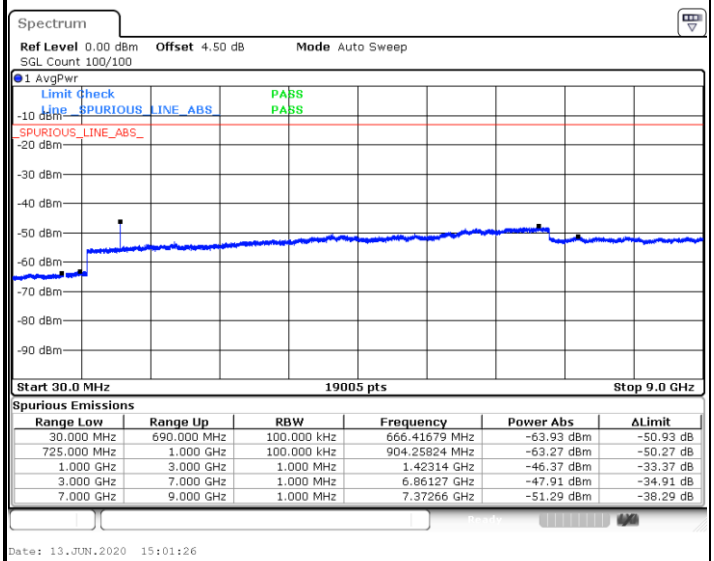


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	660.47976 MHz	-63.58 dBm	-50.58 dB
725.000 MHz	1.000 GHz	100.000 kHz	942.71978 MHz	-63.19 dBm	-50.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41115 GHz	-46.01 dBm	-33.01 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87927 GHz	-48.02 dBm	-35.02 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.36316 GHz	-51.29 dBm	-38.29 dB

Date: 13.JUN.2020 15:00:29

Highest Channel / 64QAM



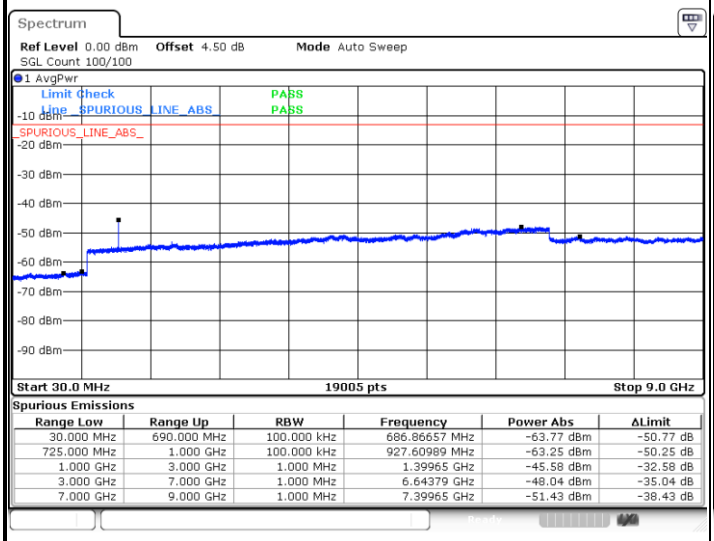
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	666.41679 MHz	-63.93 dBm	-50.93 dB
725.000 MHz	1.000 GHz	100.000 kHz	904.25824 MHz	-63.27 dBm	-50.27 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.42314 GHz	-46.37 dBm	-33.37 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86127 GHz	-47.91 dBm	-34.91 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37266 GHz	-51.29 dBm	-38.29 dB

Date: 13.JUN.2020 15:01:26

LTE Band 12 / 10MHz

Lowest Channel / 64QAM

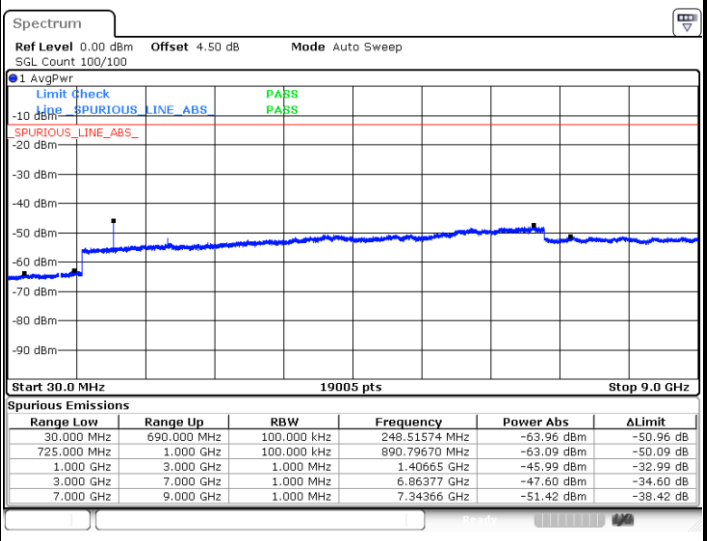


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	686.86657 MHz	-63.77 dBm	-50.77 dB
725.000 MHz	1.000 GHz	100.000 kHz	927.60989 MHz	-63.25 dBm	-50.25 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.39965 GHz	-45.58 dBm	-32.58 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.64379 GHz	-48.04 dBm	-35.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39965 GHz	-51.43 dBm	-38.43 dB

Date: 13.JUN.2020 15:02:22

Middle Channel / 64QAM

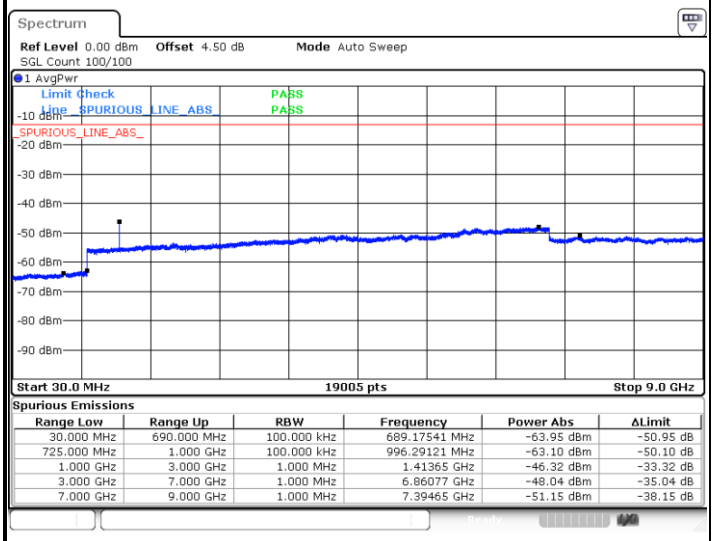


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	248.51574 MHz	-63.96 dBm	-50.96 dB
725.000 MHz	1.000 GHz	100.000 kHz	890.79670 MHz	-63.09 dBm	-50.09 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.40665 GHz	-45.99 dBm	-32.99 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86377 GHz	-47.60 dBm	-34.60 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34366 GHz	-51.42 dBm	-38.42 dB

Date: 13.JUN.2020 15:03:19

Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	690.000 MHz	100.000 kHz	689.17541 MHz	-63.95 dBm	-50.95 dB
725.000 MHz	1.000 GHz	100.000 kHz	996.29121 MHz	-63.10 dBm	-50.10 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.41365 GHz	-46.32 dBm	-33.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86077 GHz	-48.04 dBm	-35.04 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.39465 GHz	-51.15 dBm	-38.15 dB

Date: 13.JUN.2020 15:04:16

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	0.0004	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0026	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0023	

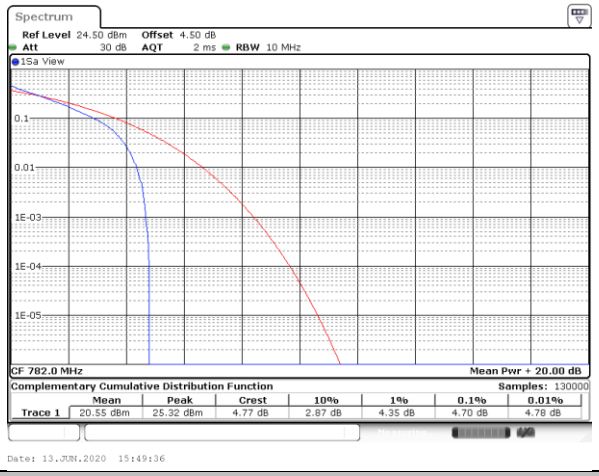
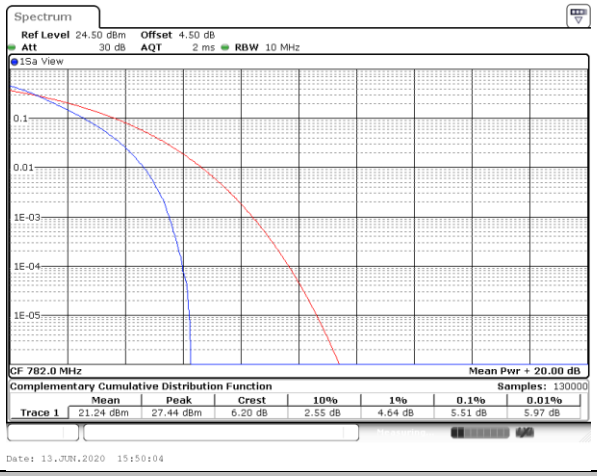
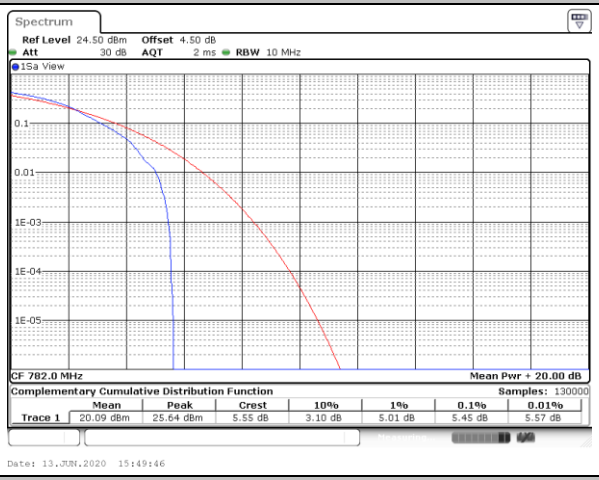
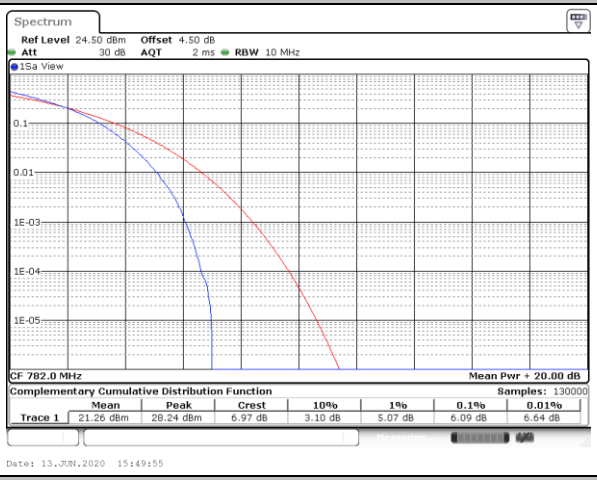
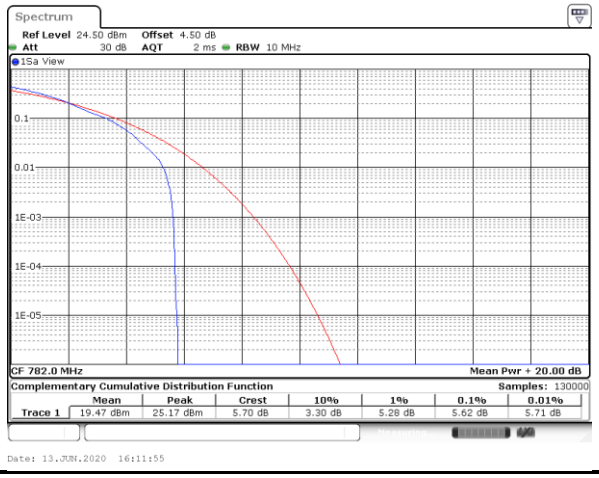
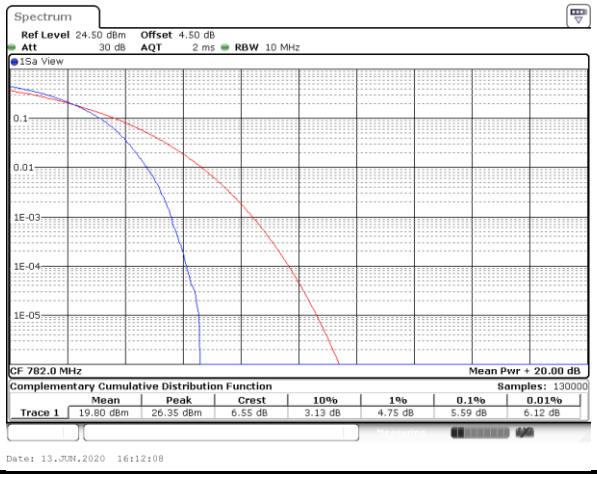
Note:

1. Normal Voltage =3.8 V.；Battery End Point (BEP) =3.6 V.；Maximum Voltage =4.1 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	4.70	5.51	5.45	6.09	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	5.62	5.59	-	-	
Highest CH	-	-	-	-	

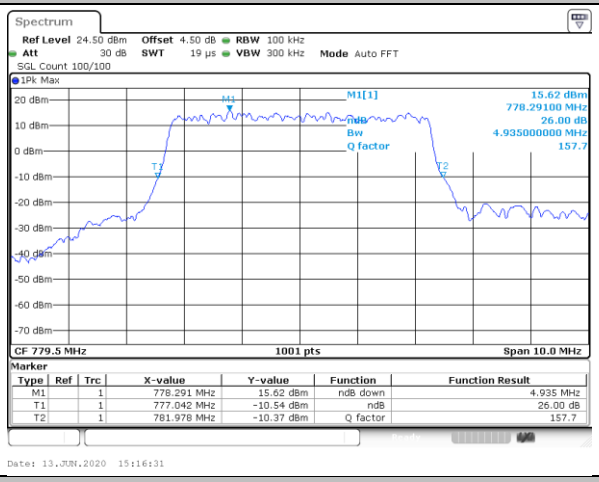
LTE Band 13 / 10MHz / QPSK	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
LTE Band 13 / 10MHz / 16QAM	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
LTE Band 13 / 10MHz / 64QAM	
Middle Channel / 1RB	**Middle Channel / Full RB**
	

26dB Bandwidth

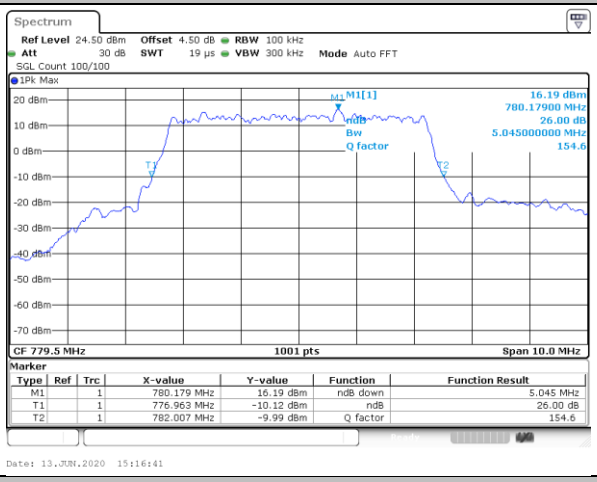
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.94	5.05	-	-	-	-	-	-
Middle CH	-	-	-	-	4.97	5.08	9.95	9.99	-	-	-	-
Highest CH	-	-	-	-	5.04	5.05	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.02	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.17	-	9.95	-	-	-	-	-
Highest CH	-	-	-	-	5.11	-	-	-	-	-	-	-

LTE Band 13

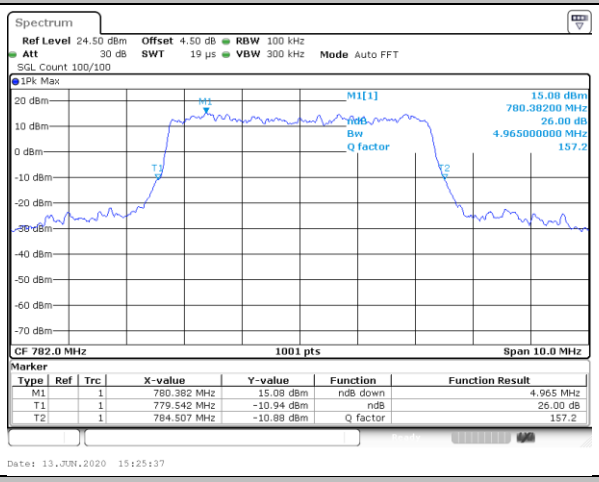
Lowest Channel / 5MHz / QPSK



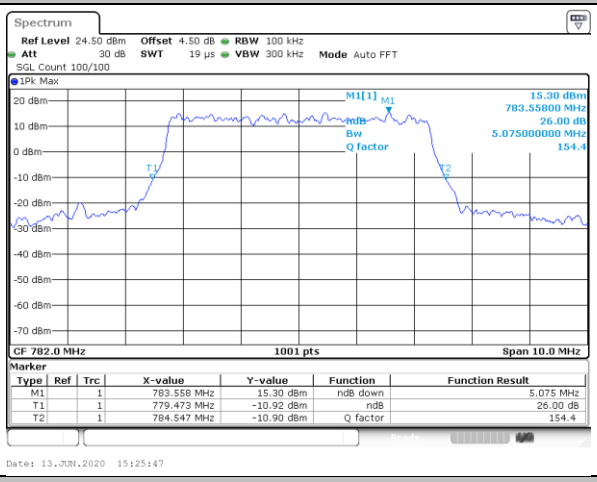
Lowest Channel / 5MHz / 16QAM



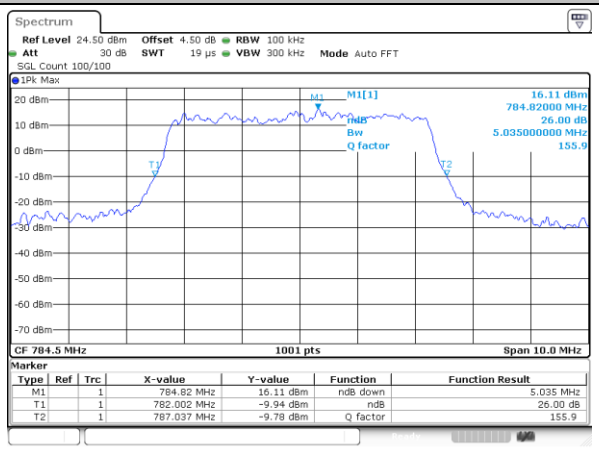
Middle Channel / 5MHz / QPSK



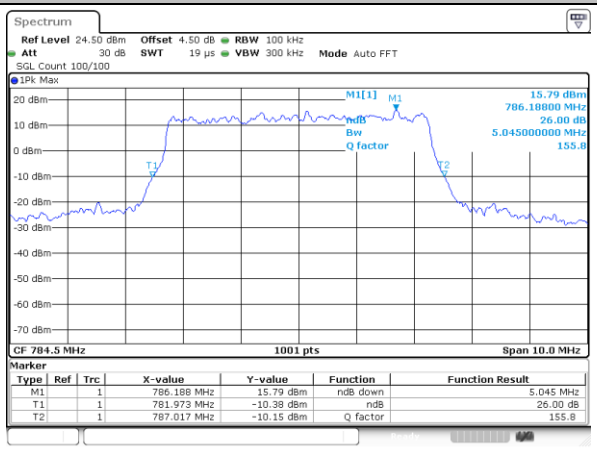
Middle Channel / 5MHz / 16QAM



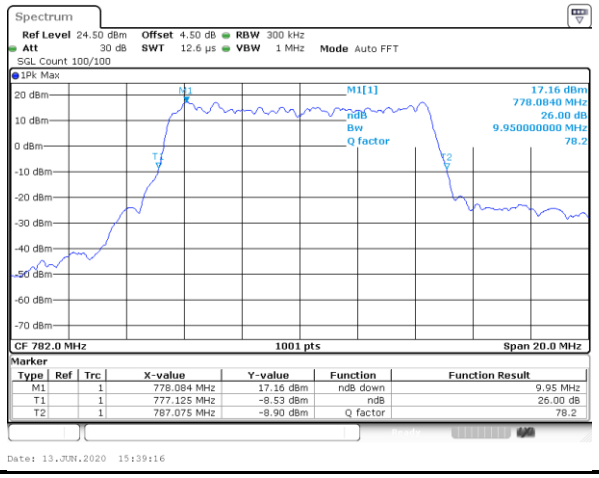
Highest Channel / 5MHz / QPSK

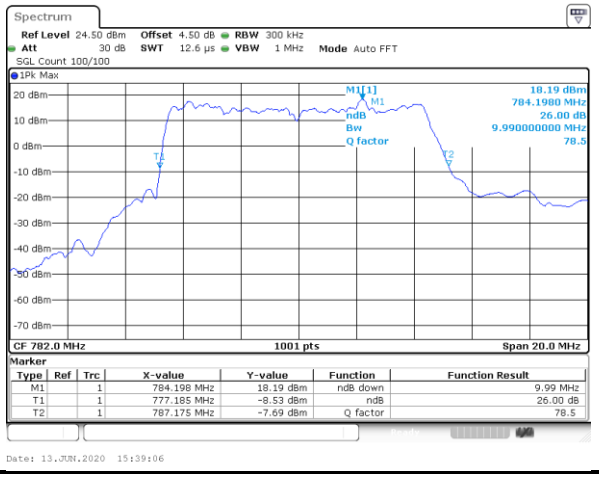


Highest Channel / 5MHz / 16QAM



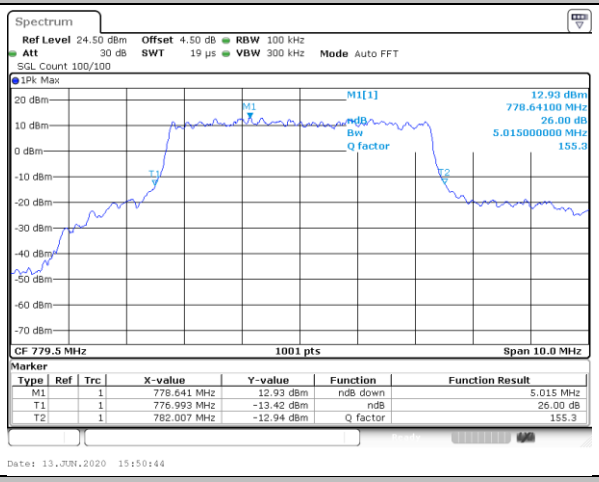
LTE Band 13	
Middle Channel / 10MHz / QPSK	Middle Channel / 10MHz / 16QAM



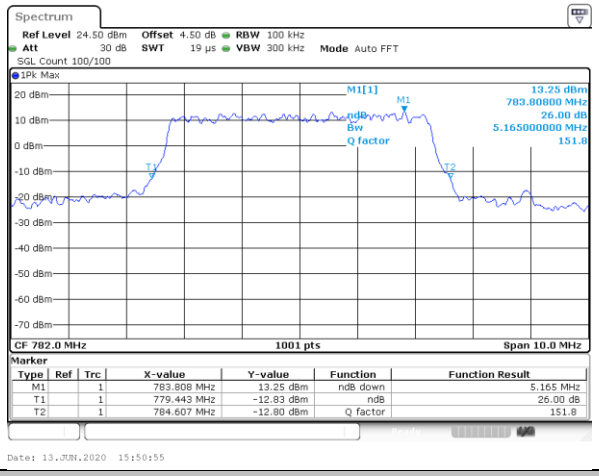


LTE Band 13

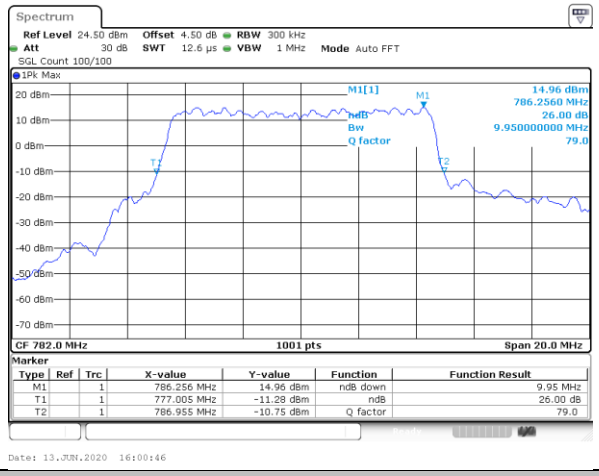
Lowest Channel / 5MHz / 64QAM



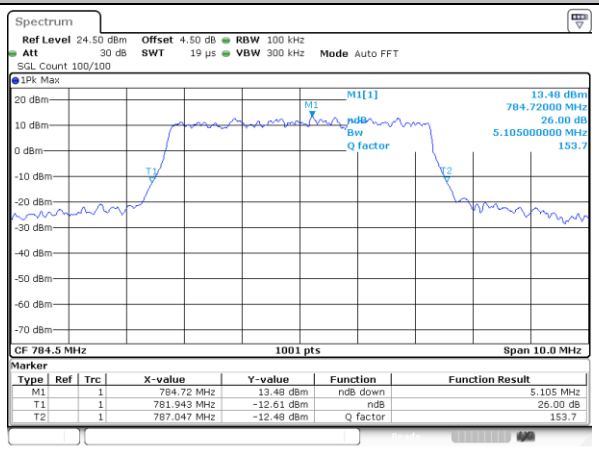
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM

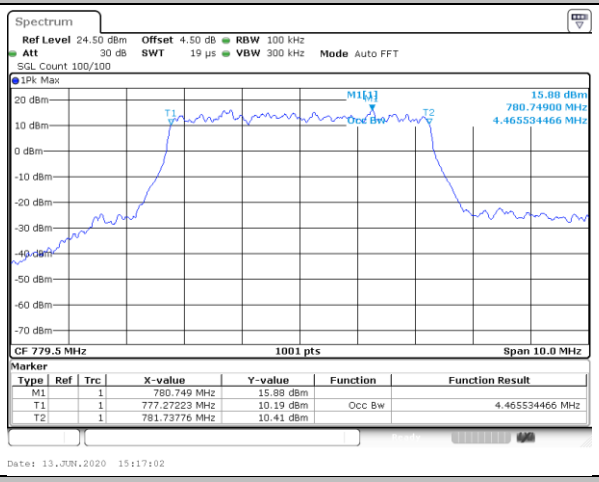


Occupied Bandwidth

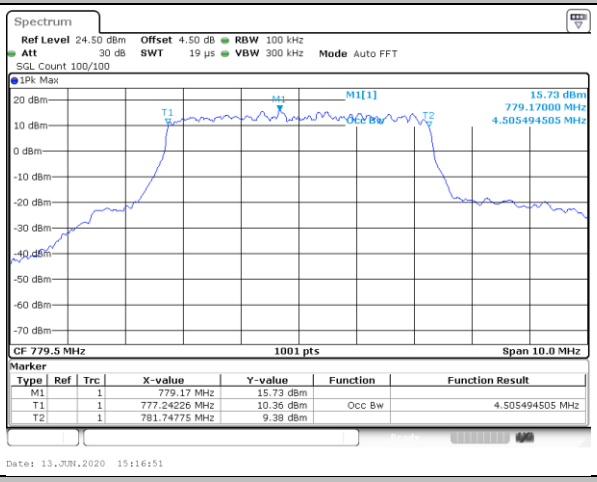
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	-	-	-	-	4.47	4.51	-	-	-	-	-	-
Middle CH	-	-	-	-	4.48	4.52	9.03	9.07	-	-	-	-
Highest CH	-	-	-	-	4.50	4.48	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.49	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.52	-	9.03	-	-	-	-	-
Highest CH	-	-	-	-	4.51	-	-	-	-	-	-	-

LTE Band 13

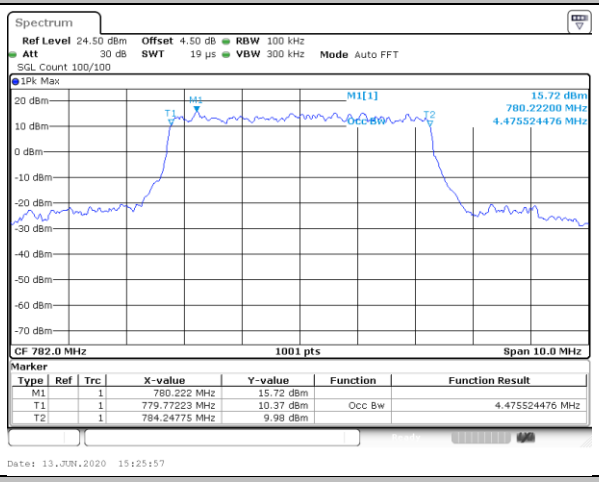
Lowest Channel / 5MHz / QPSK



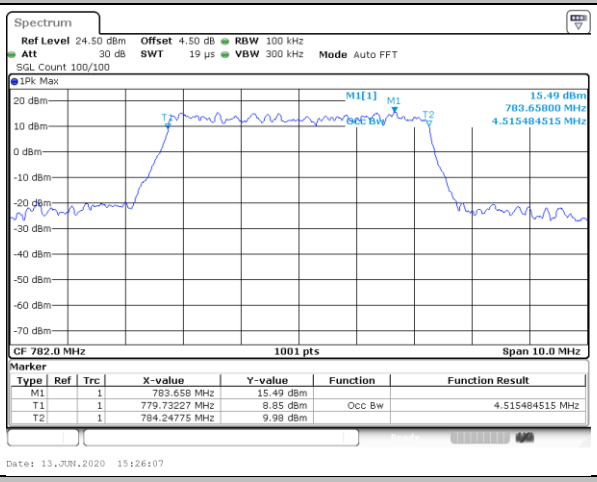
Lowest Channel / 5MHz / 16QAM



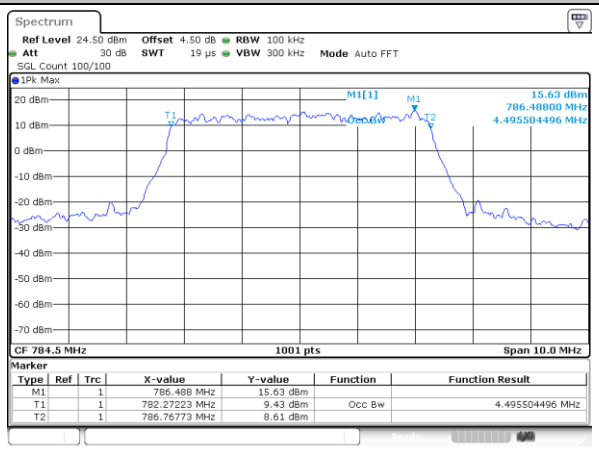
Middle Channel / 5MHz / QPSK



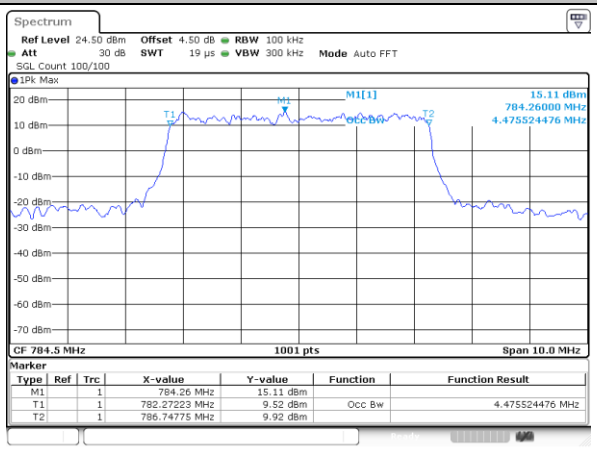
Middle Channel / 5MHz / 16QAM

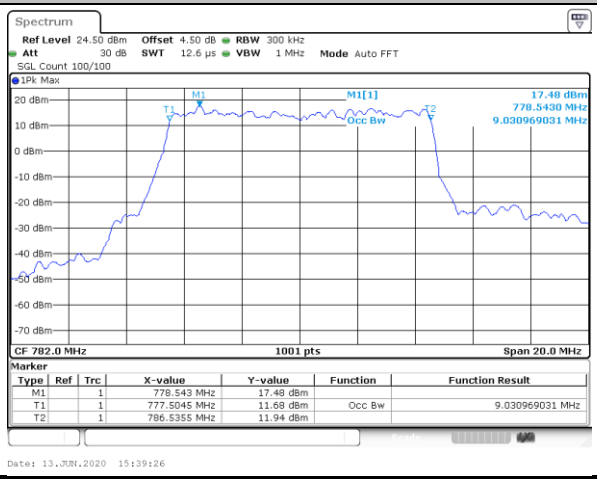
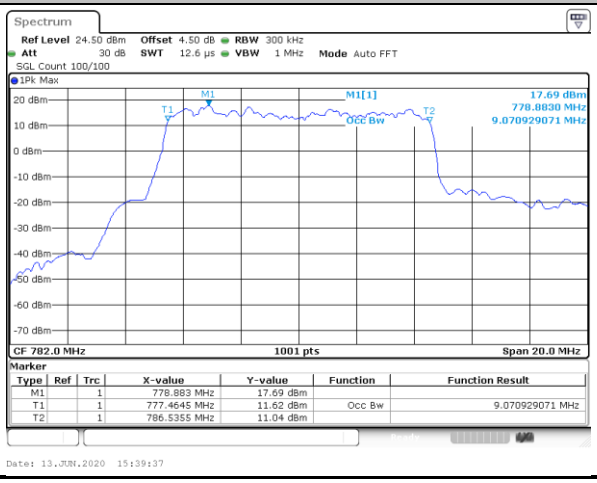


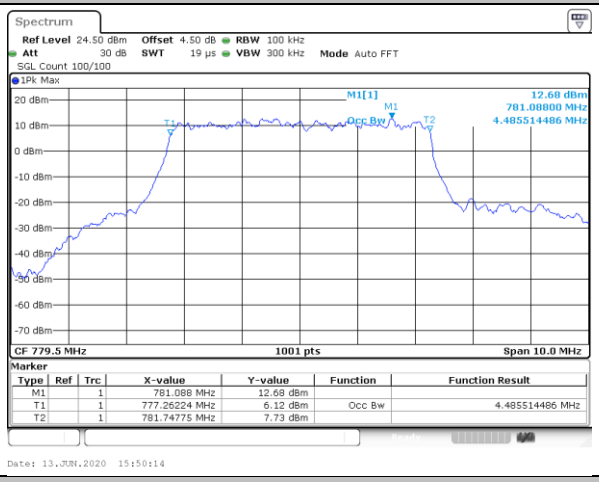
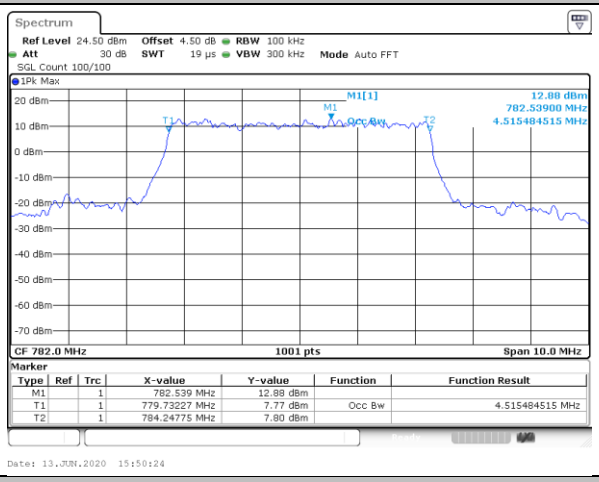
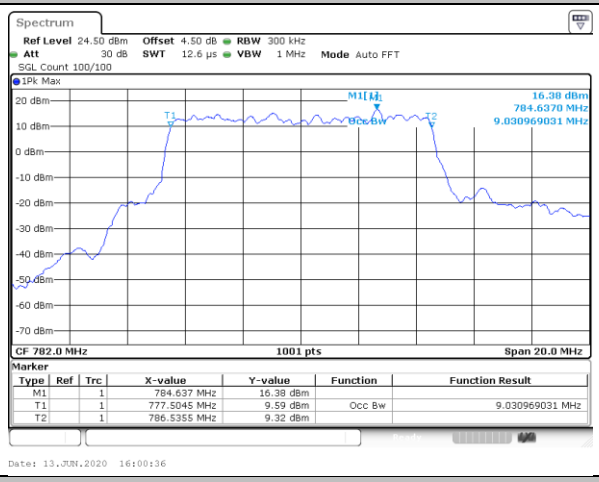
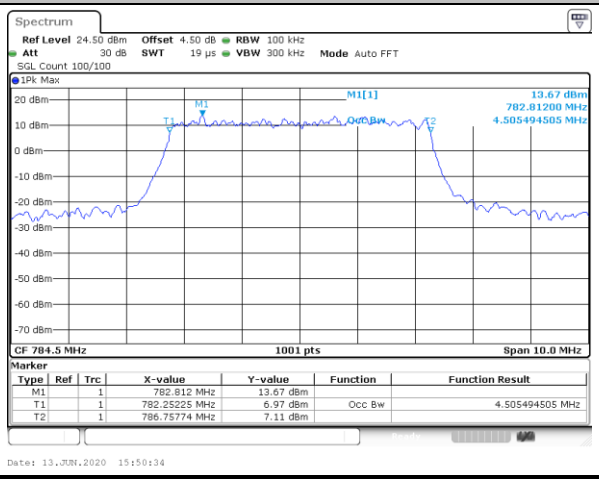
Highest Channel / 5MHz / QPSK



Highest Channel / 5MHz / 16QAM



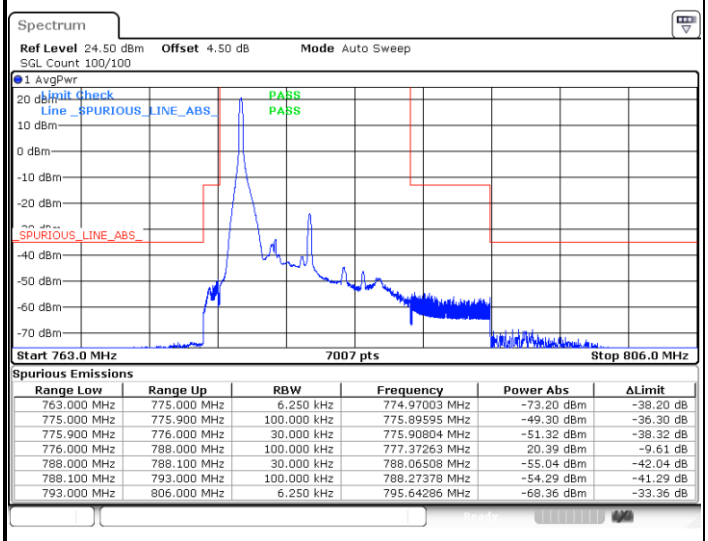
LTE Band 13	
Middle Channel / 10MHz / QPSK	**Middle Channel / 10MHz / 16QAM**
	

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

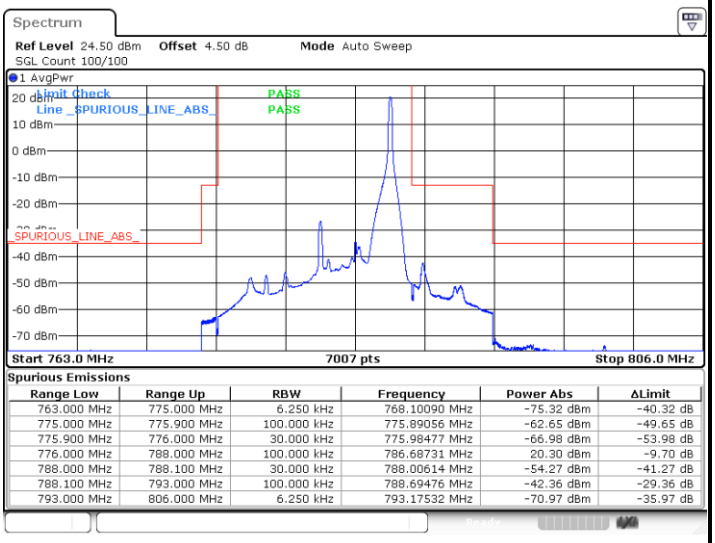


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.97003 MHz	-73.20 dBm	-38.20 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89595 MHz	-49.30 dBm	-36.30 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.90804 MHz	-51.32 dBm	-38.32 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.37263 MHz	20.39 dBm	-9.61 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06508 MHz	-55.04 dBm	-42.04 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.27378 MHz	-54.29 dBm	-41.29 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.64286 MHz	-68.36 dBm	-33.36 dB

Date: 13.JUN.2020 15:21:56

Highest Band Edge / 1 RB

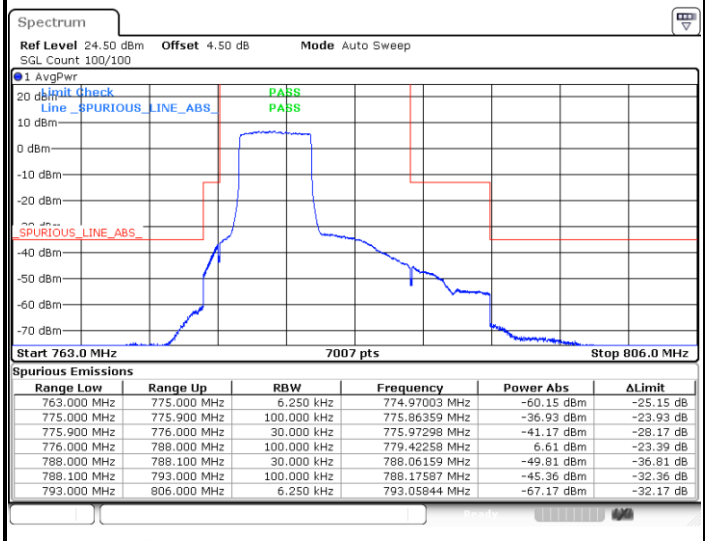


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	768.10090 MHz	-75.32 dBm	-40.32 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89056 MHz	-62.65 dBm	-49.65 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98477 MHz	-66.98 dBm	-53.98 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.68731 MHz	20.30 dBm	-9.70 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00614 MHz	-54.27 dBm	-41.27 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.69476 MHz	-42.36 dBm	-29.36 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.17532 MHz	-70.97 dBm	-35.97 dB

Date: 13.JUN.2020 15:33:34

Lowest Band Edge / Full RB

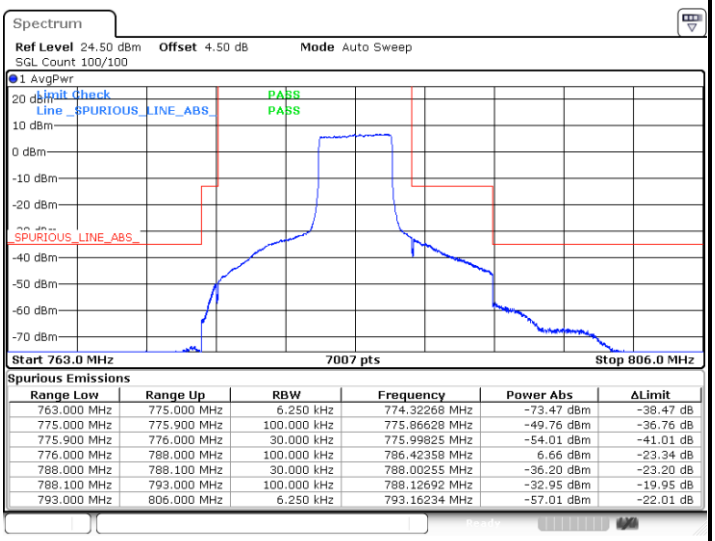


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.97003 MHz	-60.15 dBm	-25.15 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86359 MHz	-36.93 dBm	-23.93 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97298 MHz	-41.17 dBm	-28.17 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.42258 MHz	6.61 dBm	-23.39 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06159 MHz	-49.81 dBm	-36.81 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.17587 MHz	-45.36 dBm	-32.36 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.05844 MHz	-67.17 dBm	-32.17 dB

Date: 13.JUN.2020 15:20:18

Highest Band Edge / Full RB



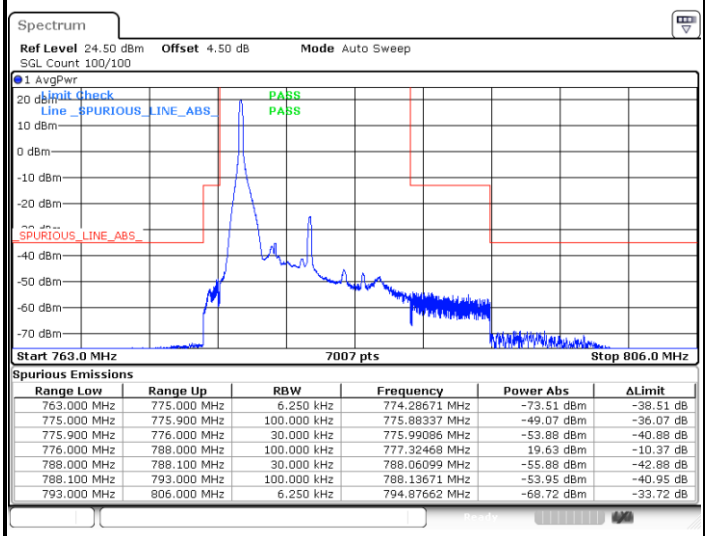
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.32268 MHz	-73.47 dBm	-38.47 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86628 MHz	-49.76 dBm	-36.76 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99825 MHz	-54.01 dBm	-41.01 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.42358 MHz	6.66 dBm	-23.34 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00255 MHz	-36.20 dBm	-23.20 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.12692 MHz	-32.95 dBm	-19.95 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-57.01 dBm	-22.01 dB

Date: 13.JUN.2020 15:31:56

LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

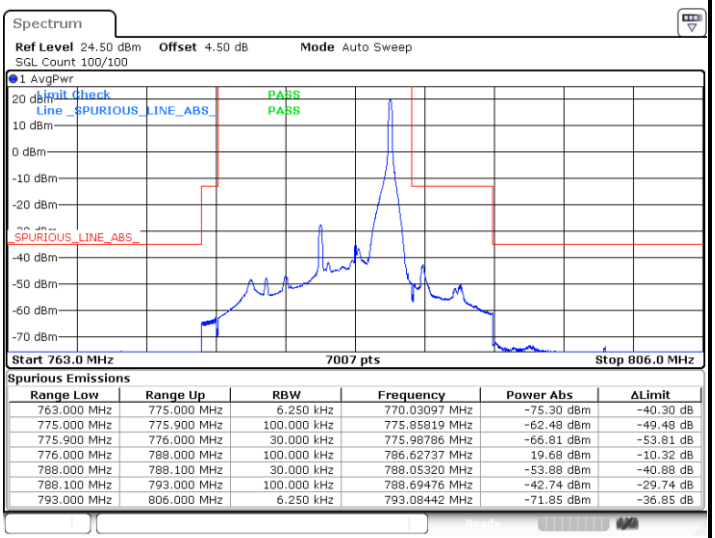


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.28671 MHz	-73.51 dBm	-38.51 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88337 MHz	-49.07 dBm	-36.07 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99086 MHz	-53.88 dBm	-40.88 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.32468 MHz	19.63 dBm	-10.37 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06099 MHz	-55.88 dBm	-42.88 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13671 MHz	-53.95 dBm	-40.95 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.87662 MHz	-68.72 dBm	-33.72 dB

Date: 13.JUN.2020 15:23:34

Highest Band Edge / 1 RB

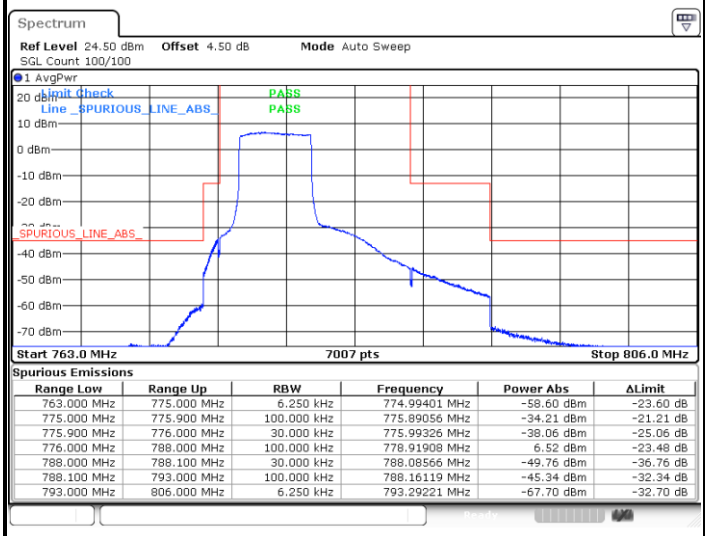


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	770.03097 MHz	-75.30 dBm	-40.30 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.85819 MHz	-62.48 dBm	-49.48 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98786 MHz	-66.81 dBm	-53.81 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	19.68 dBm	-10.32 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05320 MHz	-53.88 dBm	-40.88 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.69476 MHz	-42.74 dBm	-29.74 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.08442 MHz	-71.85 dBm	-36.85 dB

Date: 13.JUN.2020 15:35:12

Lowest Band Edge / Full RB

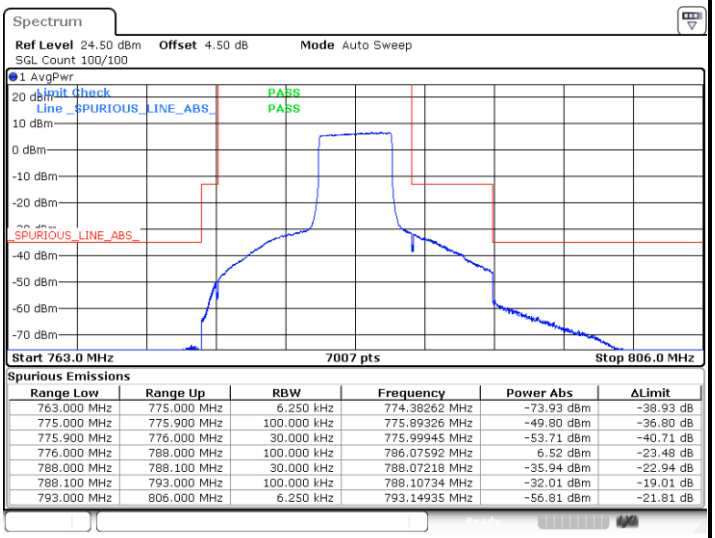


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.99401 MHz	-58.60 dBm	-23.60 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89056 MHz	-34.21 dBm	-21.21 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99326 MHz	-38.06 dBm	-25.06 dB
776.000 MHz	788.000 MHz	100.000 kHz	778.91908 MHz	6.52 dBm	-23.48 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08566 MHz	-49.76 dBm	-36.76 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.16119 MHz	-45.34 dBm	-32.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.29221 MHz	-67.70 dBm	-32.70 dB

Date: 13.JUN.2020 15:18:40

Highest Band Edge / Full RB



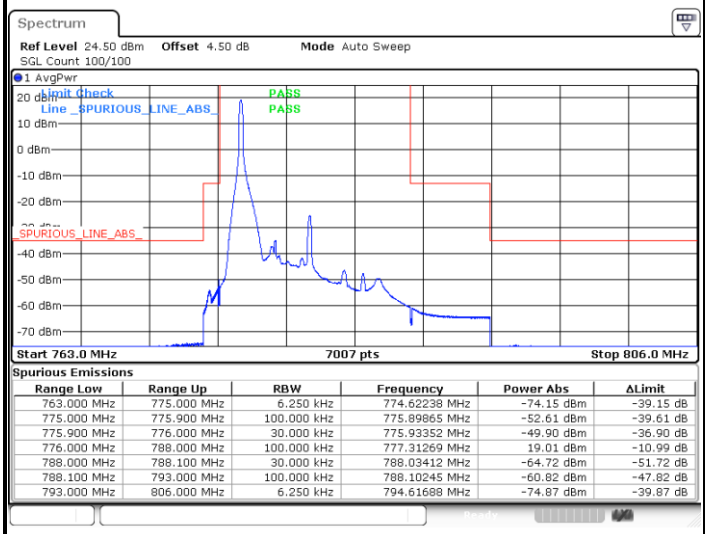
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.38262 MHz	-73.93 dBm	-38.93 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89326 MHz	-49.80 dBm	-36.80 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99945 MHz	-53.71 dBm	-40.71 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.07592 MHz	6.52 dBm	-23.48 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07218 MHz	-35.94 dBm	-22.94 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10734 MHz	-32.01 dBm	-19.01 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.14935 MHz	-56.81 dBm	-21.81 dB

Date: 13.JUN.2020 15:30:18

LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

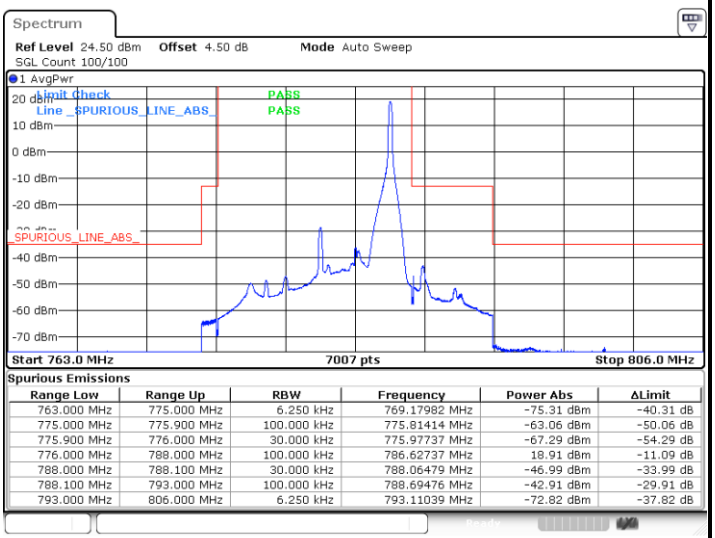


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.62238 MHz	-74.15 dBm	-39.15 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89865 MHz	-52.61 dBm	-39.61 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.93352 MHz	-49.90 dBm	-36.90 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.31269 MHz	19.01 dBm	-10.99 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03412 MHz	-64.72 dBm	-51.72 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.10245 MHz	-60.82 dBm	-47.82 dB
793.000 MHz	806.000 MHz	6.250 kHz	794.61688 MHz	-74.87 dBm	-39.87 dB

Date: 13.JUN.2020 15:52:43

Highest Band Edge / 1 RB

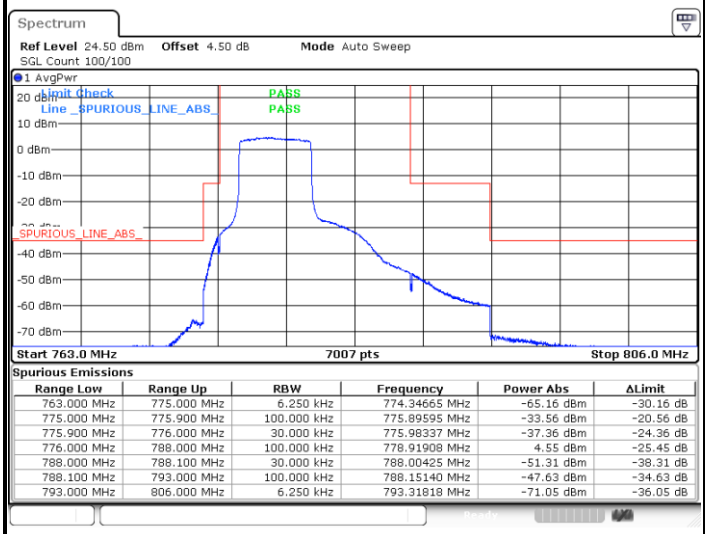


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	769.17982 MHz	-75.31 dBm	-40.31 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.81414 MHz	-63.06 dBm	-50.06 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97737 MHz	-67.29 dBm	-54.29 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.62737 MHz	18.91 dBm	-11.09 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.06479 MHz	-46.99 dBm	-33.99 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.69476 MHz	-42.91 dBm	-29.91 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.11039 MHz	-72.82 dBm	-37.82 dB

Date: 13.JUN.2020 15:57:38

Lowest Band Edge / Full RB

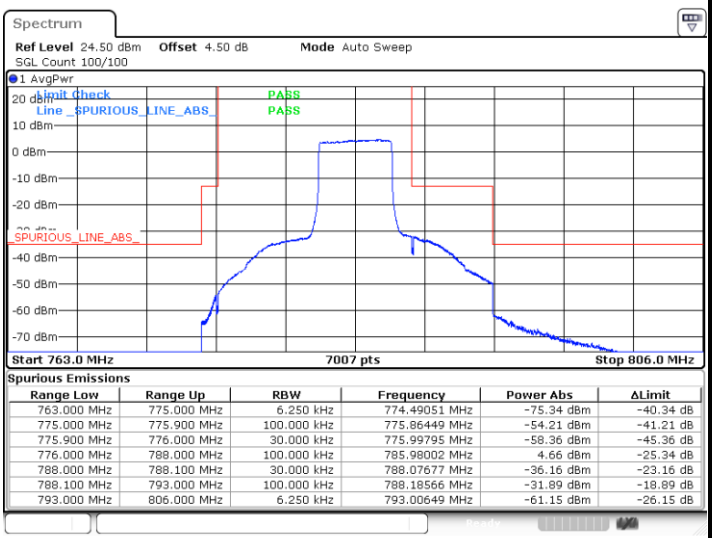


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.34665 MHz	-65.16 dBm	-30.16 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89595 MHz	-33.56 dBm	-20.56 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98337 MHz	-37.36 dBm	-24.36 dB
776.000 MHz	788.000 MHz	100.000 kHz	778.91908 MHz	4.55 dBm	-25.45 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.00425 MHz	-51.31 dBm	-38.31 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15140 MHz	-47.63 dBm	-34.63 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.31818 MHz	-71.05 dBm	-36.05 dB

Date: 13.JUN.2020 15:54:21

Highest Band Edge / Full RB



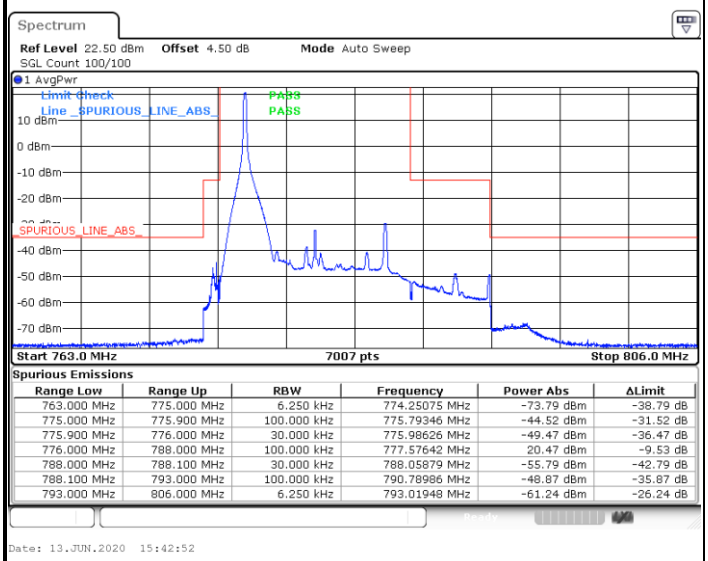
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.49051 MHz	-75.34 dBm	-40.34 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86449 MHz	-54.21 dBm	-41.21 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99795 MHz	-58.36 dBm	-45.36 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.98002 MHz	4.66 dBm	-25.34 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07677 MHz	-36.16 dBm	-23.16 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.18566 MHz	-31.89 dBm	-18.89 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.00649 MHz	-61.15 dBm	-26.15 dB

Date: 13.JUN.2020 15:56:00

LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

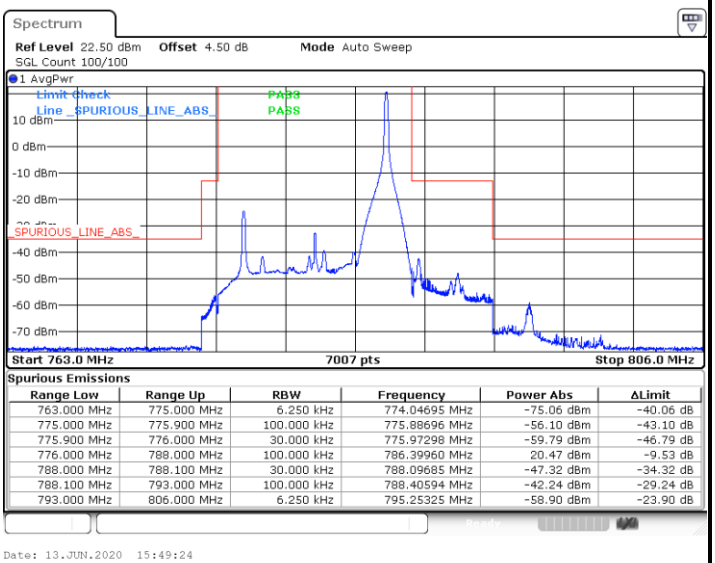


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.25075 MHz	-73.79 dBm	-38.79 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.79346 MHz	-44.52 dBm	-31.52 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98626 MHz	-49.47 dBm	-36.47 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.57642 MHz	20.47 dBm	-9.53 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.05879 MHz	-55.79 dBm	-42.79 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.78986 MHz	-48.87 dBm	-35.87 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-61.24 dBm	-26.24 dB

Date: 13.JUN.2020 15:42:52

Highest Band Edge / 1 RB

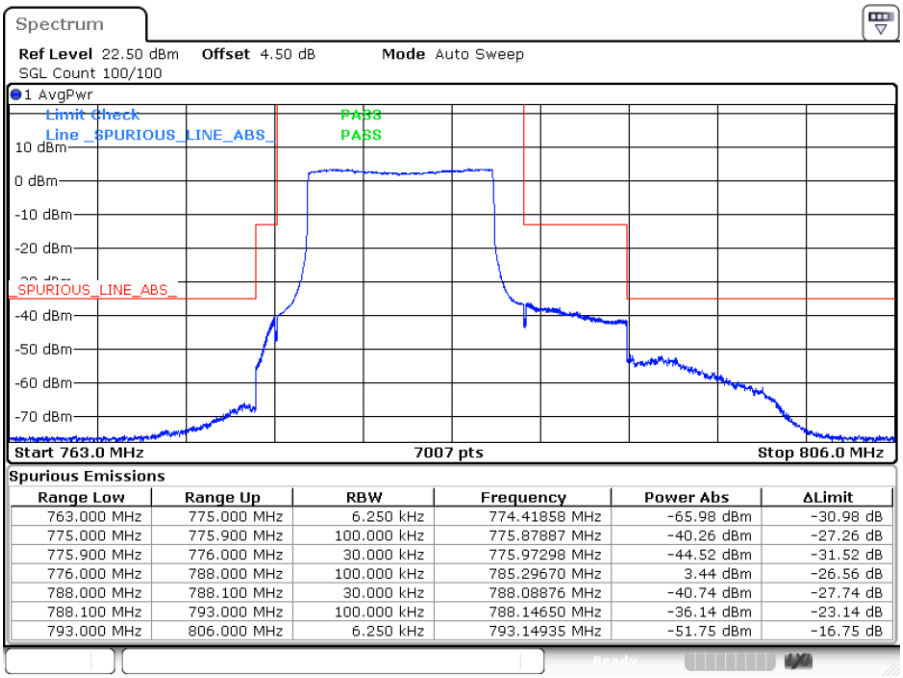


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.04695 MHz	-75.06 dBm	-40.06 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88696 MHz	-56.10 dBm	-43.10 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97298 MHz	-59.79 dBm	-46.79 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.39960 MHz	20.47 dBm	-9.53 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.09685 MHz	-47.32 dBm	-34.32 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.40594 MHz	-42.24 dBm	-29.24 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.25325 MHz	-58.90 dBm	-23.90 dB

Date: 13.JUN.2020 15:49:24

Band Edge / Full RB



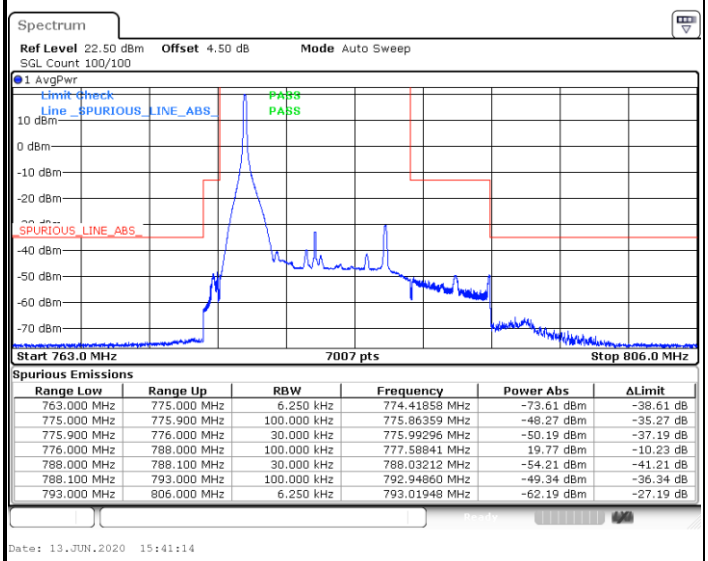
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.41858 MHz	-65.98 dBm	-30.98 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.87887 MHz	-40.26 dBm	-27.26 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97298 MHz	-44.52 dBm	-31.52 dB
776.000 MHz	788.000 MHz	100.000 kHz	785.29670 MHz	3.44 dBm	-26.56 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08876 MHz	-40.74 dBm	-27.74 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.14650 MHz	-36.14 dBm	-23.14 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.14935 MHz	-51.75 dBm	-16.75 dB

Date: 13.JUN.2020 15:44:30

LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

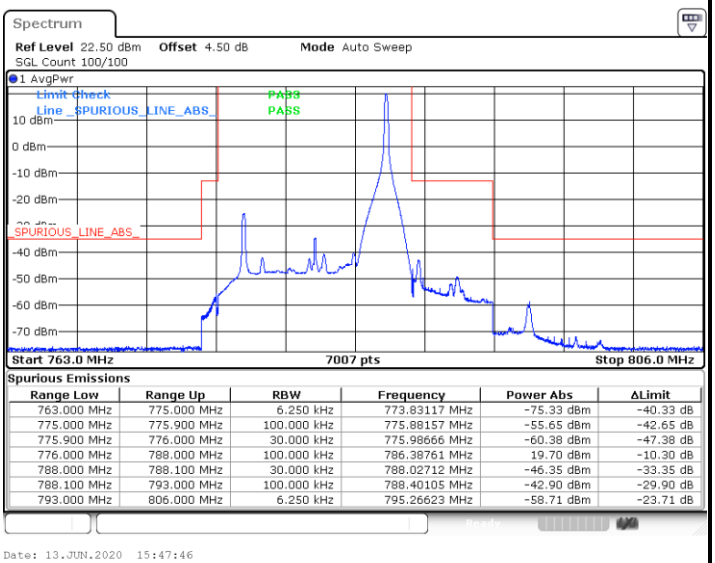


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.41858 MHz	-73.61 dBm	-38.61 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.86359 MHz	-48.27 dBm	-35.27 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.99296 MHz	-50.19 dBm	-37.19 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	19.77 dBm	-10.23 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.03212 MHz	-54.21 dBm	-41.21 dB
788.100 MHz	793.000 MHz	100.000 kHz	792.94860 MHz	-49.34 dBm	-36.34 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-62.19 dBm	-27.19 dB

Date: 13.JUN.2020 15:41:14

Highest Band Edge / 1 RB

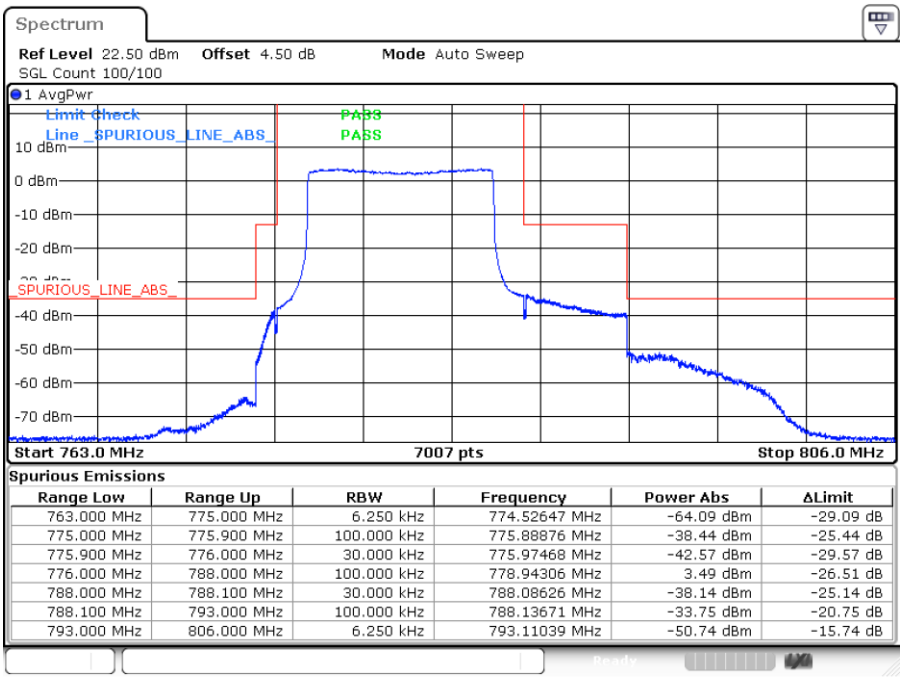


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.83117 MHz	-75.33 dBm	-40.33 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88157 MHz	-55.65 dBm	-42.65 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98666 MHz	-60.38 dBm	-47.38 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.38761 MHz	19.70 dBm	-10.30 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02712 MHz	-46.35 dBm	-33.35 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.40105 MHz	-42.90 dBm	-29.90 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.26623 MHz	-58.71 dBm	-23.71 dB

Date: 13.JUN.2020 15:47:46

Band Edge / Full RB



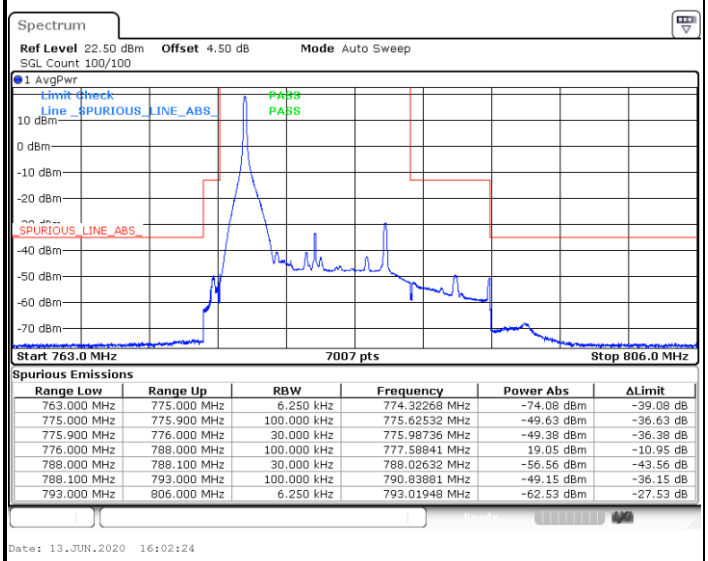
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.52647 MHz	-64.09 dBm	-29.09 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.88876 MHz	-38.44 dBm	-25.44 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97468 MHz	-42.57 dBm	-29.57 dB
776.000 MHz	788.000 MHz	100.000 kHz	778.94306 MHz	3.49 dBm	-26.51 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08626 MHz	-38.14 dBm	-25.14 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.13671 MHz	-33.75 dBm	-20.75 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.11039 MHz	-50.74 dBm	-15.74 dB

Date: 13.JUN.2020 15:46:08

LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

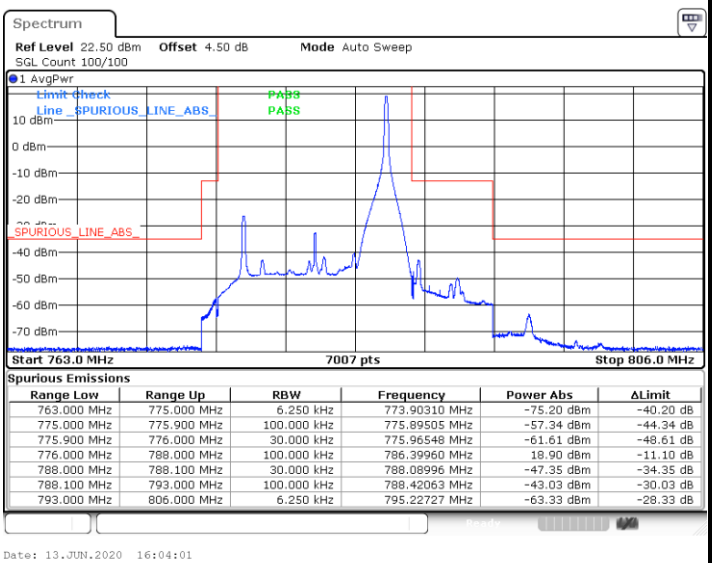


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.32268 MHz	-74.08 dBm	-39.08 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.62532 MHz	-49.63 dBm	-36.63 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.98736 MHz	-49.38 dBm	-36.38 dB
776.000 MHz	788.000 MHz	100.000 kHz	777.58841 MHz	19.05 dBm	-10.95 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.02632 MHz	-56.56 dBm	-43.56 dB
788.100 MHz	793.000 MHz	100.000 kHz	790.83881 MHz	-49.15 dBm	-36.15 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.01948 MHz	-62.53 dBm	-27.53 dB

Date: 13.JUN.2020 16:02:24

Highest Band Edge / 1 RB

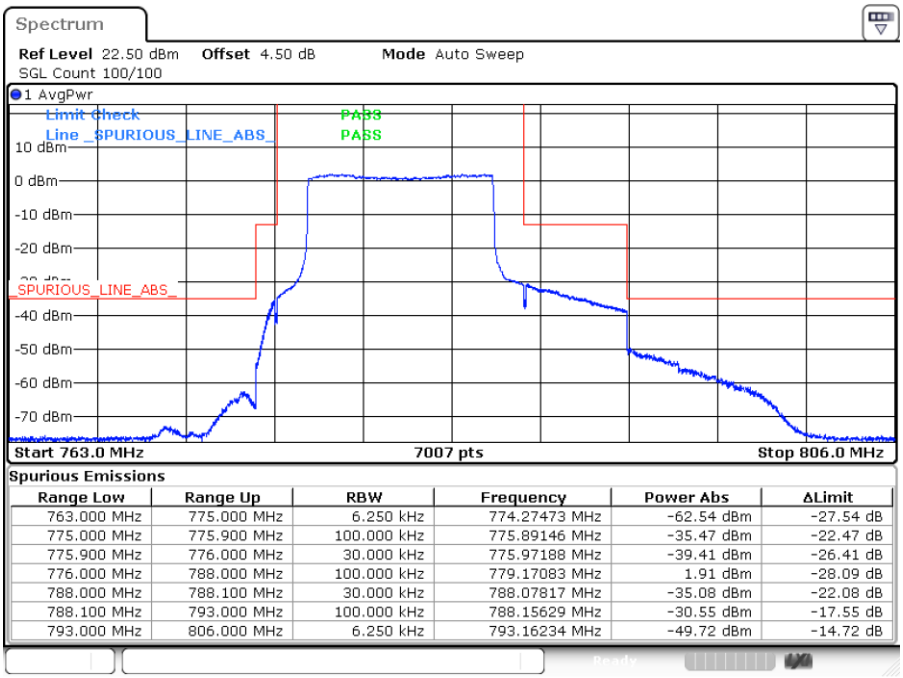


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	773.90310 MHz	-75.20 dBm	-40.20 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89505 MHz	-57.34 dBm	-44.34 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.96548 MHz	-61.61 dBm	-48.61 dB
776.000 MHz	788.000 MHz	100.000 kHz	786.39960 MHz	18.90 dBm	-11.10 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.08996 MHz	-47.35 dBm	-34.35 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.42063 MHz	-43.03 dBm	-30.03 dB
793.000 MHz	806.000 MHz	6.250 kHz	795.22727 MHz	-63.33 dBm	-28.33 dB

Date: 13.JUN.2020 16:04:01

Band Edge / Full RB



Spurious Emissions

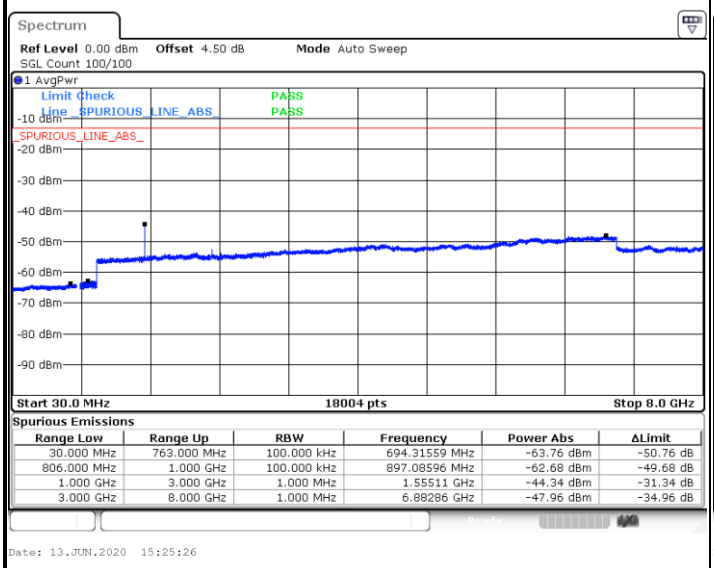
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
763.000 MHz	775.000 MHz	6.250 kHz	774.27473 MHz	-62.54 dBm	-27.54 dB
775.000 MHz	775.900 MHz	100.000 kHz	775.89146 MHz	-35.47 dBm	-22.47 dB
775.900 MHz	776.000 MHz	30.000 kHz	775.97188 MHz	-39.41 dBm	-26.41 dB
776.000 MHz	788.000 MHz	100.000 kHz	779.17083 MHz	1.91 dBm	-28.09 dB
788.000 MHz	788.100 MHz	30.000 kHz	788.07817 MHz	-35.08 dBm	-22.08 dB
788.100 MHz	793.000 MHz	100.000 kHz	788.15629 MHz	-30.55 dBm	-17.55 dB
793.000 MHz	806.000 MHz	6.250 kHz	793.16234 MHz	-49.72 dBm	-14.72 dB

Date: 13.JUN.2020 16:05:39

Conducted Spurious Emission

LTE Band 13 / 5MHz

Lowest Channel / QPSK

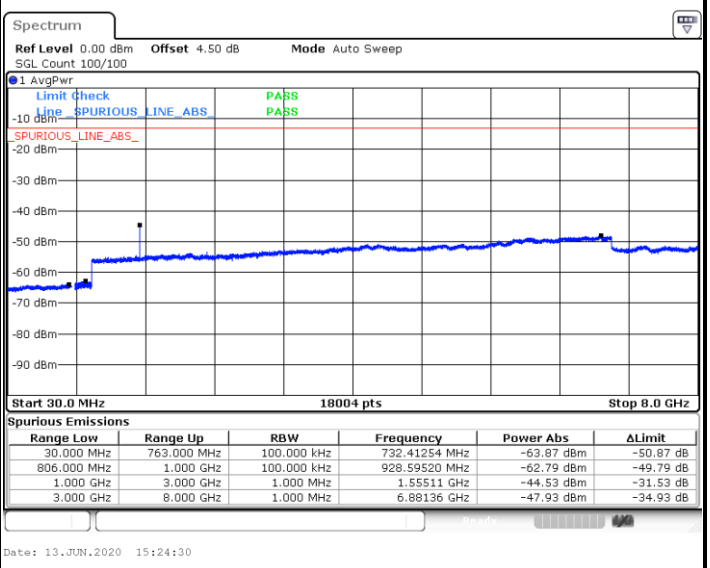


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	694.31559 MHz	-63.76 dBm	-50.76 dB
806.000 MHz	1.000 GHz	100.000 kHz	897.08596 MHz	-62.68 dBm	-49.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-44.34 dBm	-31.34 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88286 GHz	-47.96 dBm	-34.96 dB

Date: 13.JUN.2020 15:25:26

Lowest Channel / 16QAM

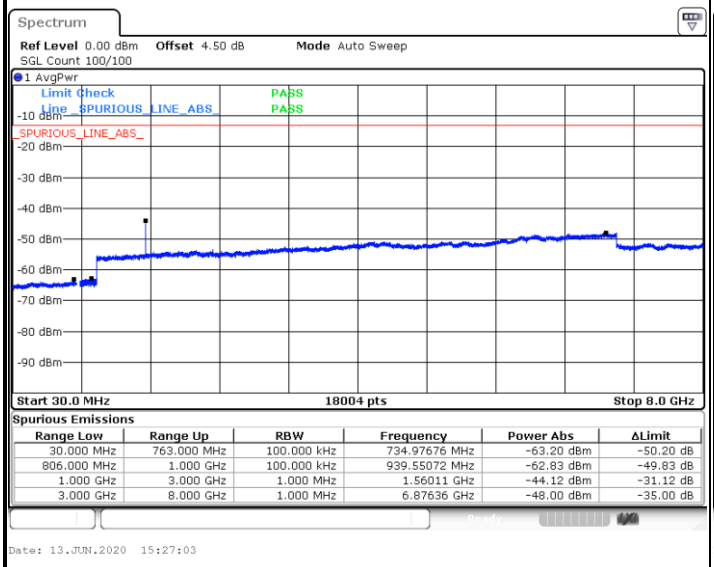


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	732.41254 MHz	-63.87 dBm	-50.87 dB
806.000 MHz	1.000 GHz	100.000 kHz	928.59520 MHz	-62.79 dBm	-49.79 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-44.53 dBm	-31.53 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88136 GHz	-47.93 dBm	-34.93 dB

Date: 13.JUN.2020 15:24:30

Middle Channel / QPSK

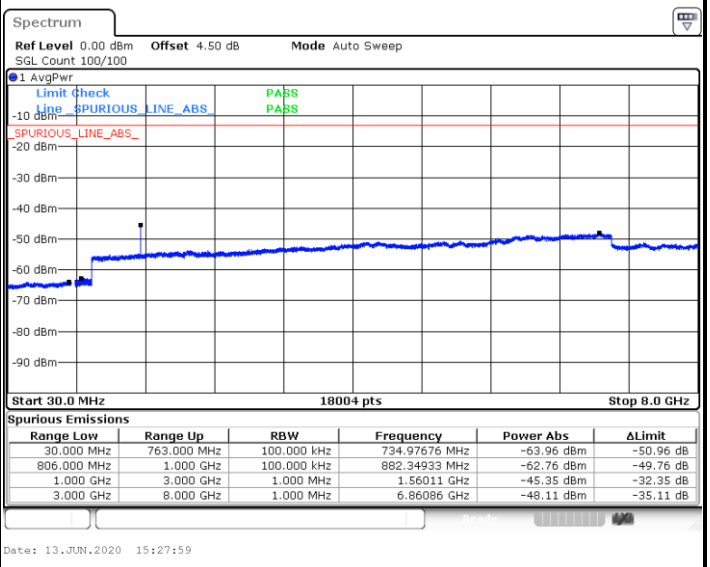


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	734.97676 MHz	-63.20 dBm	-50.20 dB
806.000 MHz	1.000 GHz	100.000 kHz	939.55072 MHz	-62.83 dBm	-49.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-44.12 dBm	-31.12 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87636 GHz	-48.00 dBm	-35.00 dB

Date: 13.JUN.2020 15:27:03

Middle Channel / 16QAM



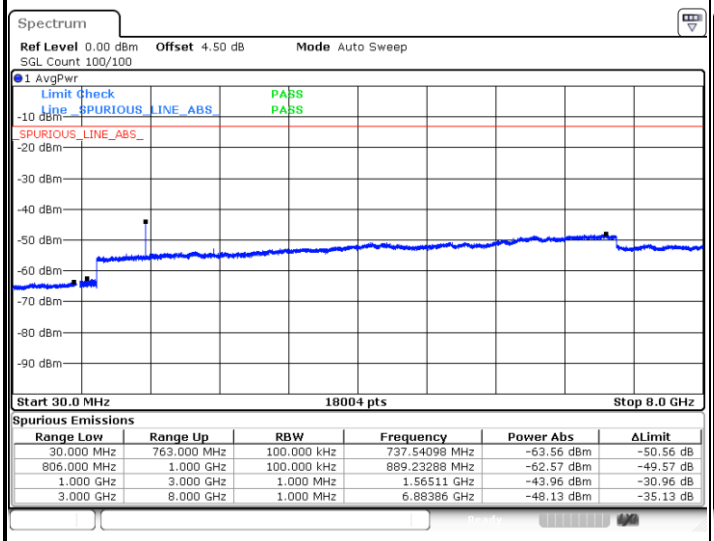
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	734.97676 MHz	-63.96 dBm	-50.96 dB
806.000 MHz	1.000 GHz	100.000 kHz	882.34933 MHz	-62.76 dBm	-49.76 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-45.35 dBm	-32.35 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86086 GHz	-48.11 dBm	-35.11 dB

Date: 13.JUN.2020 15:27:59

LTE Band 13 / 5MHz

Highest Channel / QPSK

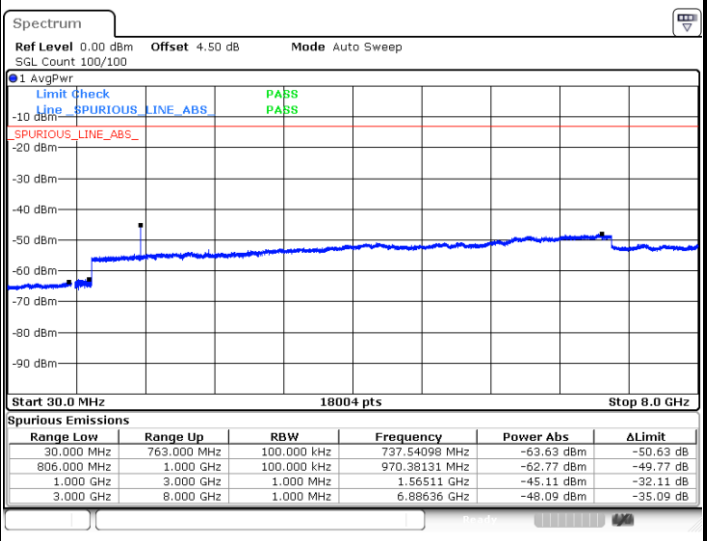


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	737.54098 MHz	-63.56 dBm	-50.56 dB
806.000 MHz	1.000 GHz	100.000 kHz	889.23288 MHz	-62.57 dBm	-49.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-43.96 dBm	-30.96 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88386 GHz	-48.13 dBm	-35.13 dB

Date: 13.JUN.2020 15:37:03

Highest Channel / 16QAM



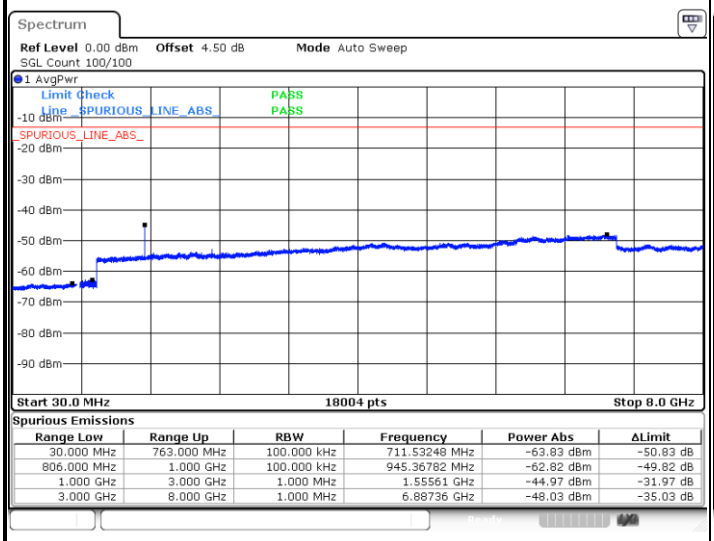
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	737.54098 MHz	-63.63 dBm	-50.63 dB
806.000 MHz	1.000 GHz	100.000 kHz	970.38131 MHz	-62.77 dBm	-49.77 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-45.11 dBm	-32.11 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88636 GHz	-48.09 dBm	-35.09 dB

Date: 13.JUN.2020 15:36:07

LTE Band 13 / 10MHz

Middle Channel / QPSK

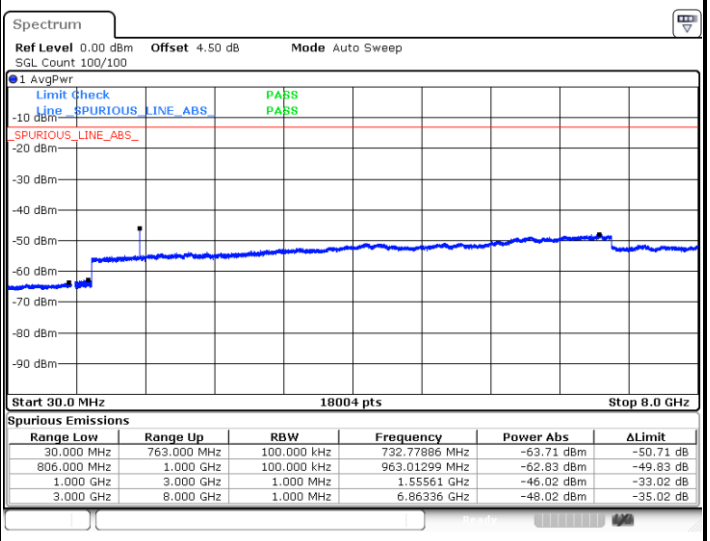


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	711.53248 MHz	-63.83 dBm	-50.83 dB
806.000 MHz	1.000 GHz	100.000 kHz	945.36782 MHz	-62.82 dBm	-49.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-44.97 dBm	-31.97 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.88736 GHz	-48.03 dBm	-35.03 dB

Date: 13.JUN.2020 15:37:59

Middle Channel / 16QAM



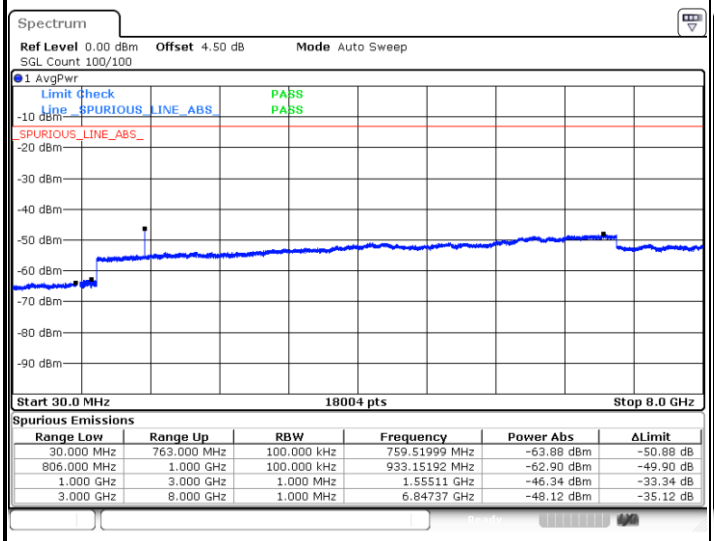
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	732.77886 MHz	-63.71 dBm	-50.71 dB
806.000 MHz	1.000 GHz	100.000 kHz	963.01299 MHz	-62.83 dBm	-49.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55561 GHz	-46.02 dBm	-33.02 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86336 GHz	-48.02 dBm	-35.02 dB

Date: 13.JUN.2020 15:38:55

LTE Band 13 / 5MHz

Lowest Channel / 64QAM

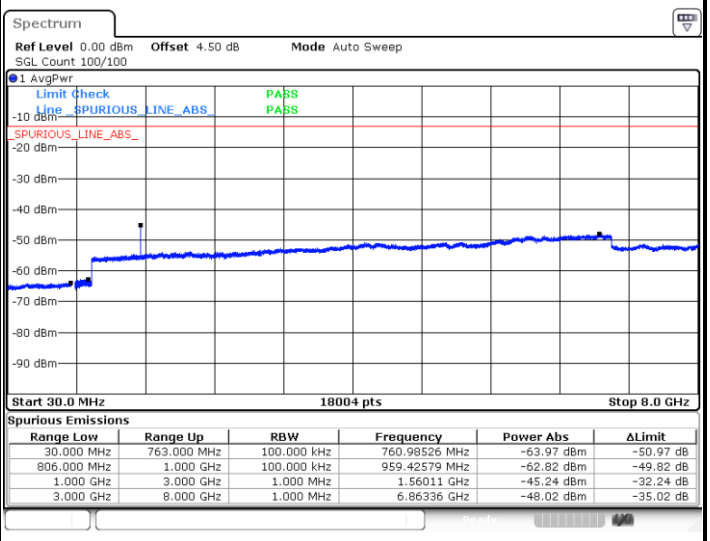


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	759.51999 MHz	-63.88 dBm	-50.88 dB
806.000 MHz	1.000 GHz	100.000 kHz	933.15192 MHz	-62.90 dBm	-49.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.55511 GHz	-46.34 dBm	-33.34 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.84737 GHz	-48.12 dBm	-35.12 dB

Date: 13.JUN.2020 15:58:33

Middle Channel / 64QAM

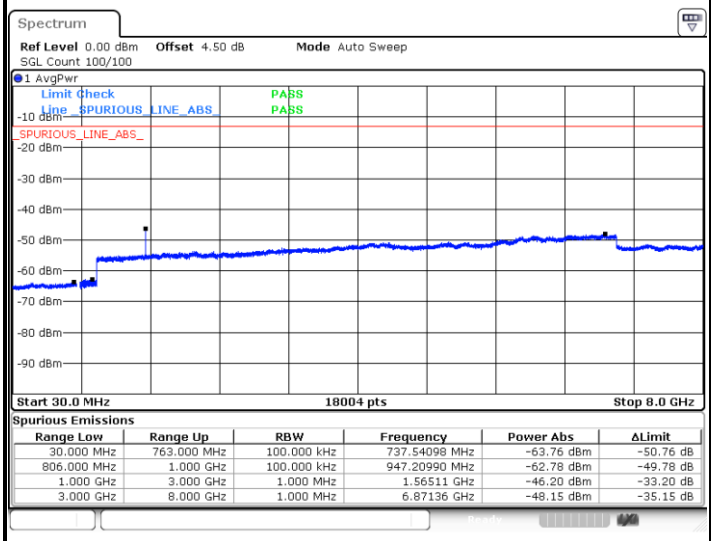


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	760.98526 MHz	-63.97 dBm	-50.97 dB
806.000 MHz	1.000 GHz	100.000 kHz	959.42579 MHz	-62.82 dBm	-49.82 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56011 GHz	-45.24 dBm	-32.24 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.86336 GHz	-48.02 dBm	-35.02 dB

Date: 13.JUN.2020 15:59:29

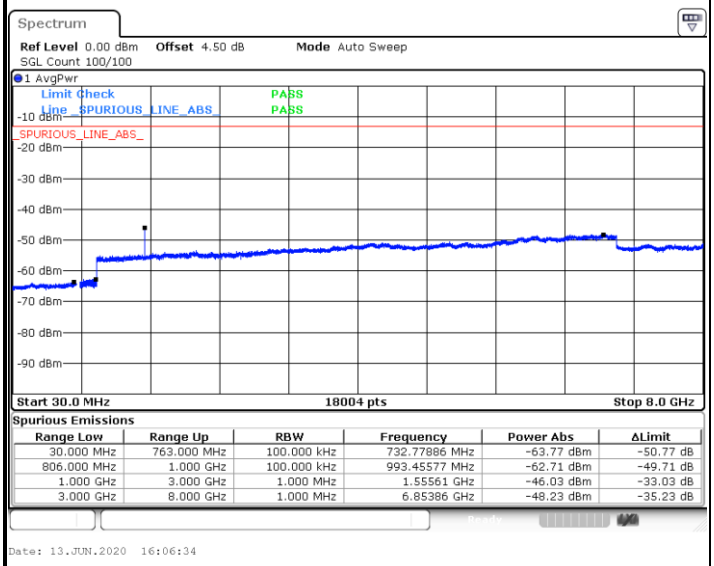
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	763.000 MHz	100.000 kHz	737.54098 MHz	-63.76 dBm	-50.76 dB
806.000 MHz	1.000 GHz	100.000 kHz	947.20990 MHz	-62.78 dBm	-49.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.56511 GHz	-46.20 dBm	-33.20 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.87136 GHz	-48.15 dBm	-35.15 dB

Date: 13.JUN.2020 16:00:25

LTE Band 13 / 10MHz	
Middle Channel / 64QAM	
	

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	0.0027	PASS
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0007	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0006	

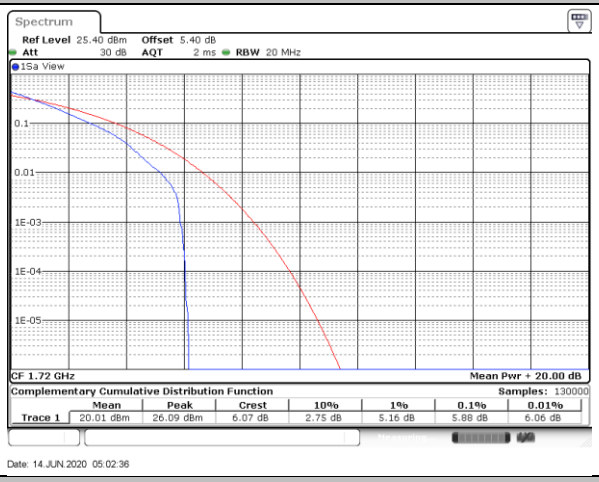
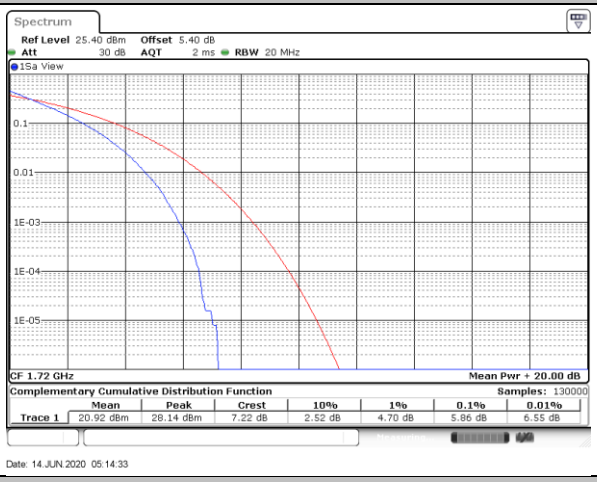
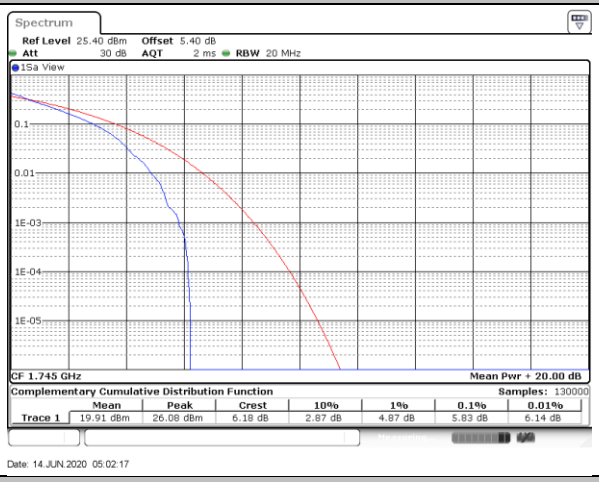
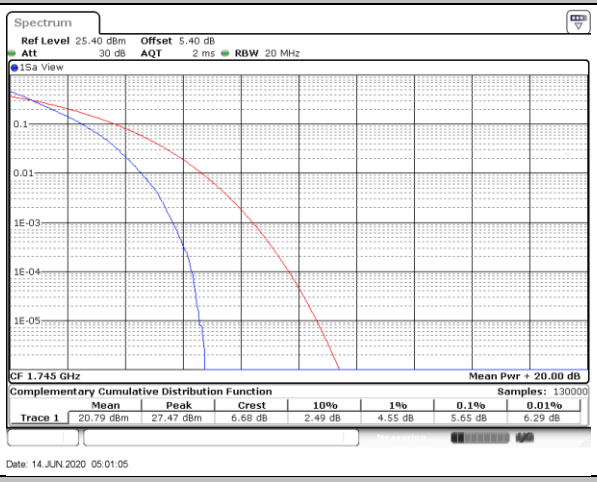
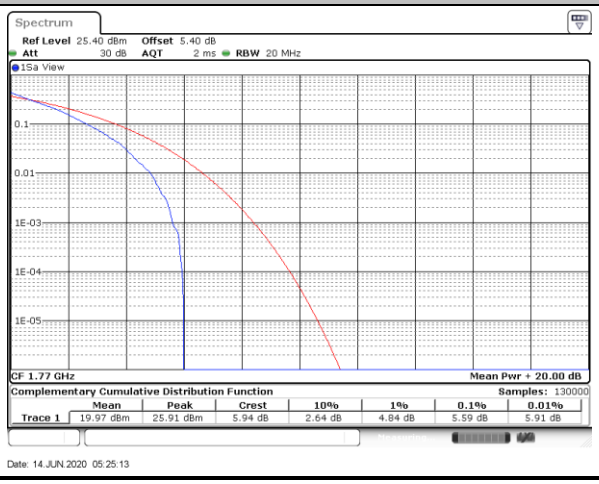
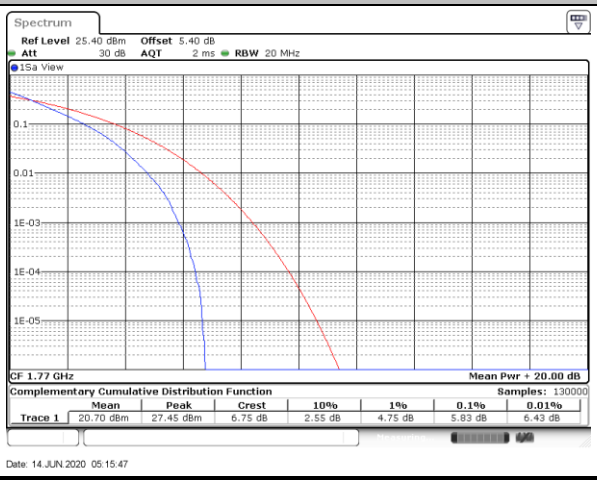
Note:

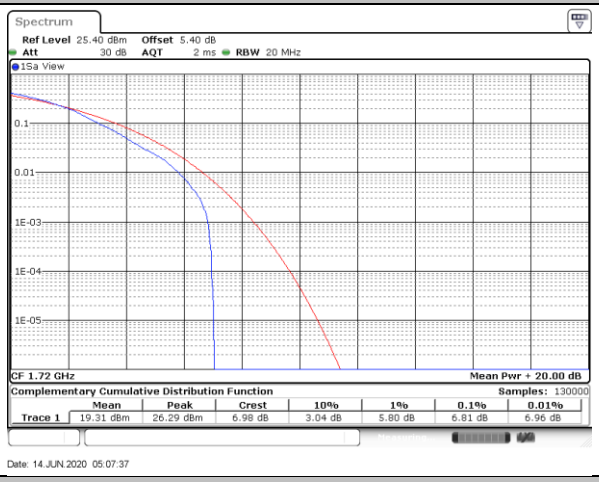
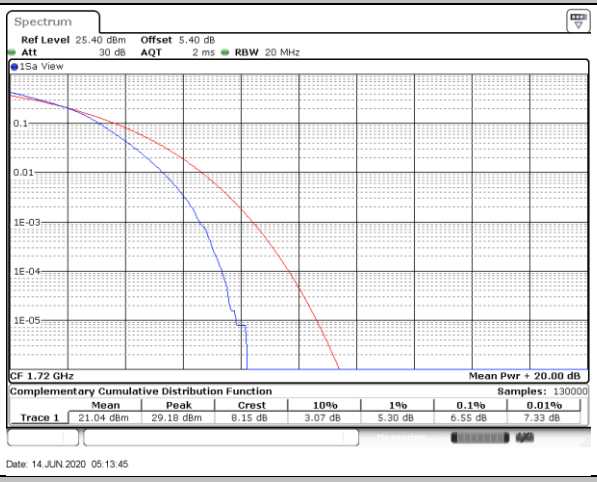
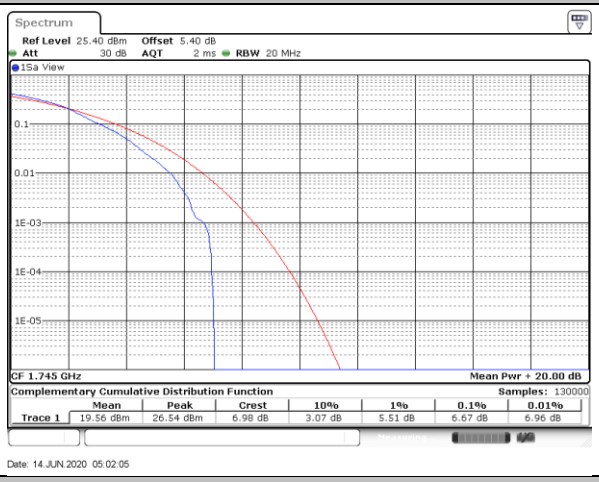
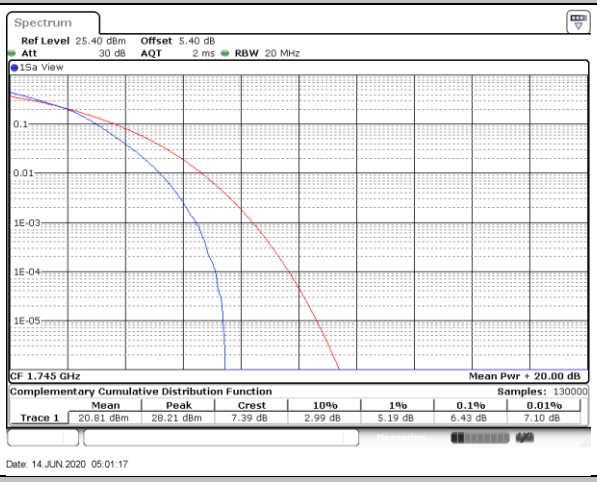
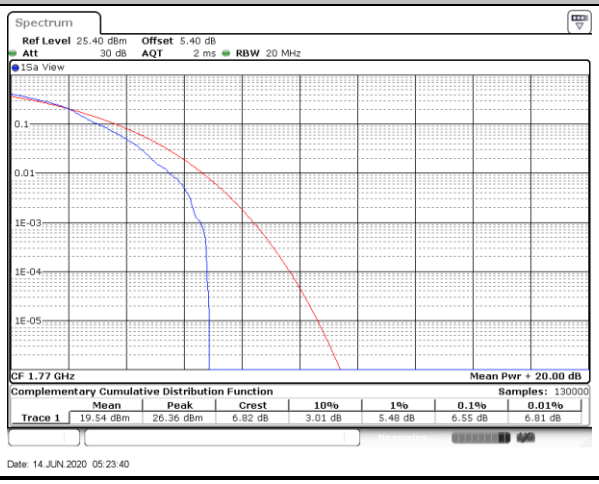
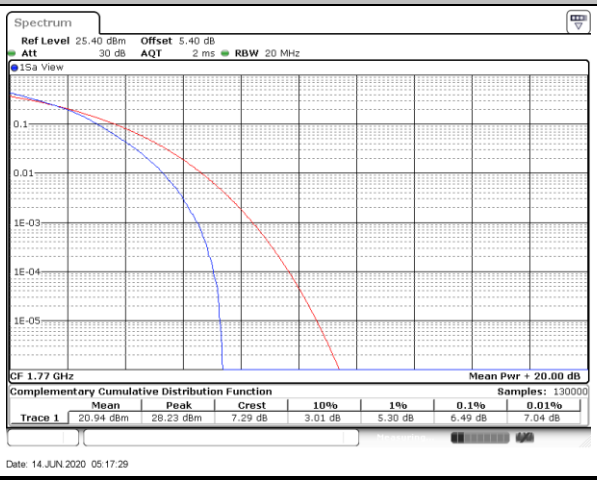
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.1 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 66

Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.88	5.86	6.81	6.55	PASS
Middle CH	5.83	5.65	6.67	6.43	
Highest CH	5.59	5.83	6.55	6.49	
Mode	LTE Band 66 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.49	6.90	-	-	PASS
Middle CH	6.58	6.61	-	-	
Highest CH	6.90	6.81	-	-	

LTE Band 66 / 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 66 / 20MHz / 16QAM	
Lowest Channel / 1RB	**Lowest Channel / Full RB**
	
Middle Channel / 1RB	**Middle Channel / Full RB**
	
Highest Channel / 1RB	**Highest Channel / Full RB**