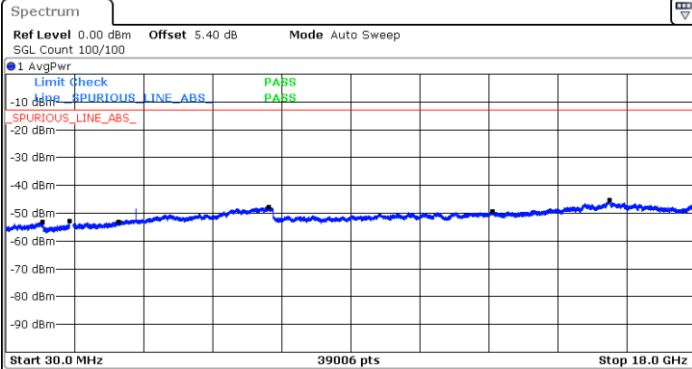




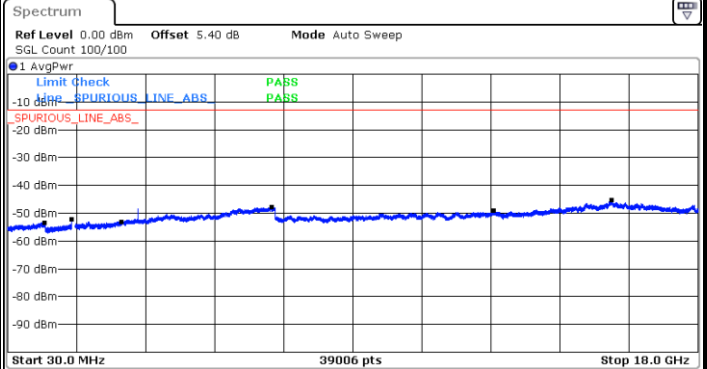
LTE Band 66 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



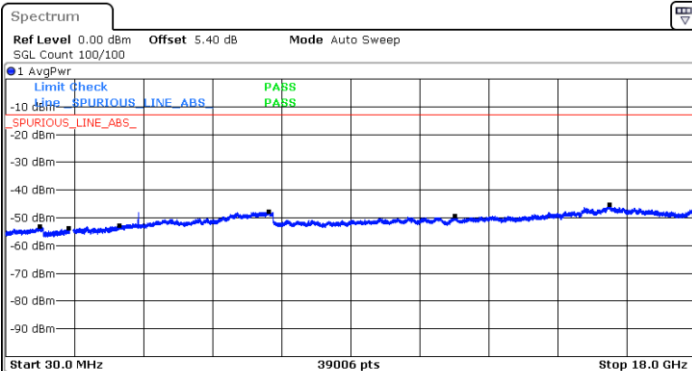
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	978.42829 MHz	-53.27 dBm	-40.27 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68443 GHz	-52.97 dBm	-39.97 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.95908 GHz	-53.05 dBm	-40.05 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88643 GHz	-47.75 dBm	-34.75 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69579 GHz	-49.38 dBm	-36.38 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74373 GHz	-45.33 dBm	-32.33 dB



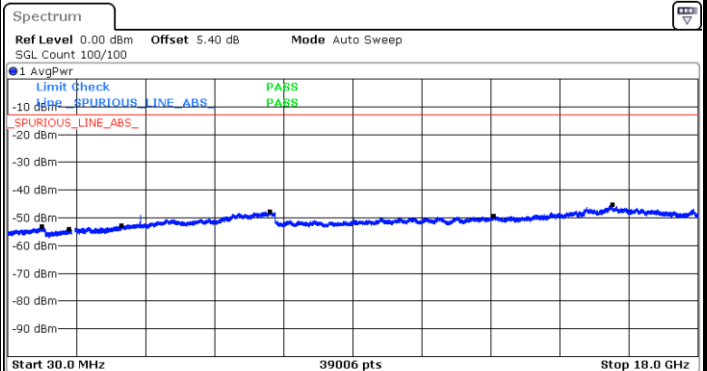
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	980.36732 MHz	-53.32 dBm	-40.32 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69773 GHz	-52.26 dBm	-39.26 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99012 GHz	-53.04 dBm	-40.04 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88943 GHz	-47.81 dBm	-34.81 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69279 GHz	-49.04 dBm	-36.04 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74665 GHz	-45.32 dBm	-32.32 dB

Middle Channel / QPSK

Middle Channel / 16QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	927.04398 MHz	-53.01 dBm	-40.01 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66099 GHz	-53.90 dBm	-40.90 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99415 GHz	-52.82 dBm	-39.82 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.86743 GHz	-47.68 dBm	-34.68 dB
9.000 GHz	13.000 GHz	1.000 MHz	11.72491 GHz	-49.41 dBm	-36.41 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74373 GHz	-45.42 dBm	-32.42 dB



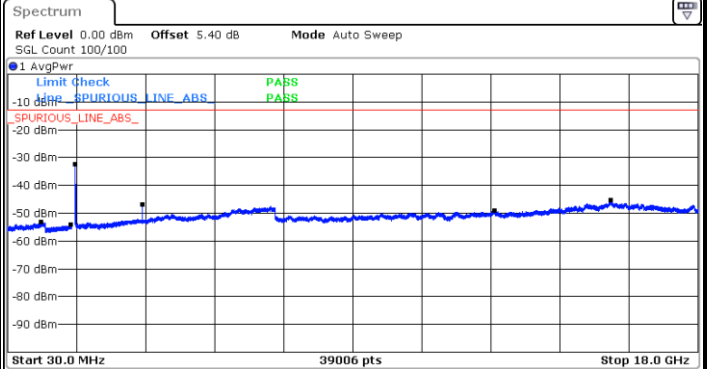
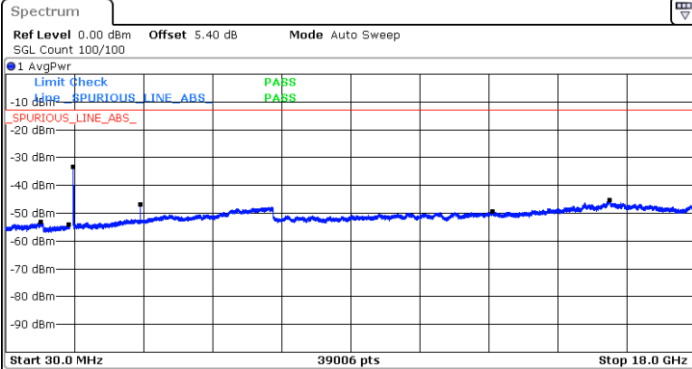
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	920.74213 MHz	-53.26 dBm	-40.26 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.62986 GHz	-54.24 dBm	-41.24 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99254 GHz	-52.89 dBm	-39.89 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.84793 GHz	-47.77 dBm	-34.77 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67729 GHz	-49.40 dBm	-36.40 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75998 GHz	-45.38 dBm	-32.38 dB



LTE Band 66 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



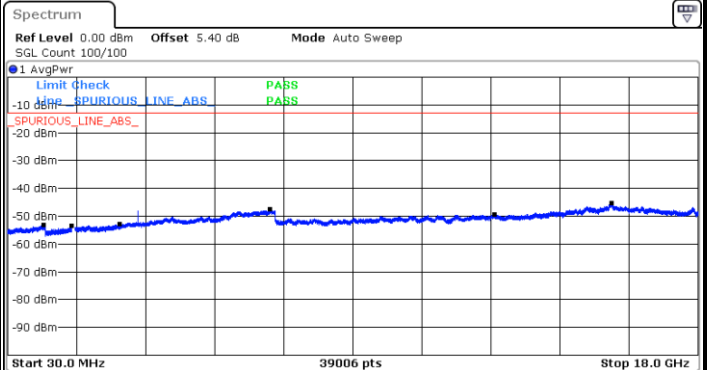
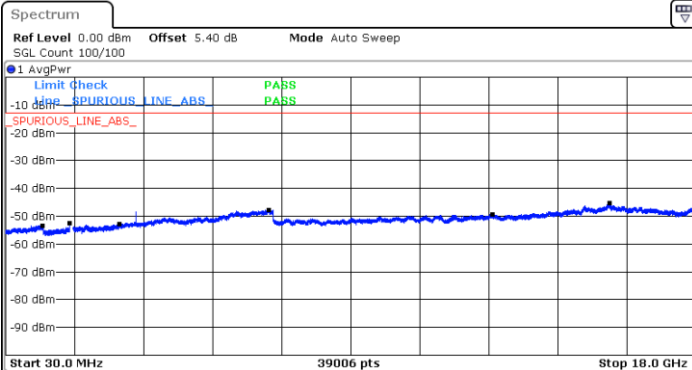
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	934.31534 MHz	-53.28 dBm	-40.28 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65890 GHz	-54.20 dBm	-41.20 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79262 GHz	-33.21 dBm	-20.21 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.53171 GHz	-46.82 dBm	-33.82 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69779 GHz	-49.31 dBm	-36.31 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74248 GHz	-45.23 dBm	-32.23 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	885.35482 MHz	-53.23 dBm	-40.23 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65820 GHz	-54.18 dBm	-41.18 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79262 GHz	-32.51 dBm	-19.51 dB
3.000 GHz	9.000 GHz	1.000 MHz	3.53171 GHz	-46.72 dBm	-33.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69879 GHz	-49.03 dBm	-36.03 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.72748 GHz	-45.37 dBm	-32.37 dB

LTE Band 66 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-53.50 dBm	-40.50 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-52.63 dBm	-39.63 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.97964 GHz	-52.06 dBm	-39.06 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.87743 GHz	-47.69 dBm	-34.69 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69429 GHz	-49.37 dBm	-36.37 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74165 GHz	-45.40 dBm	-32.40 dB

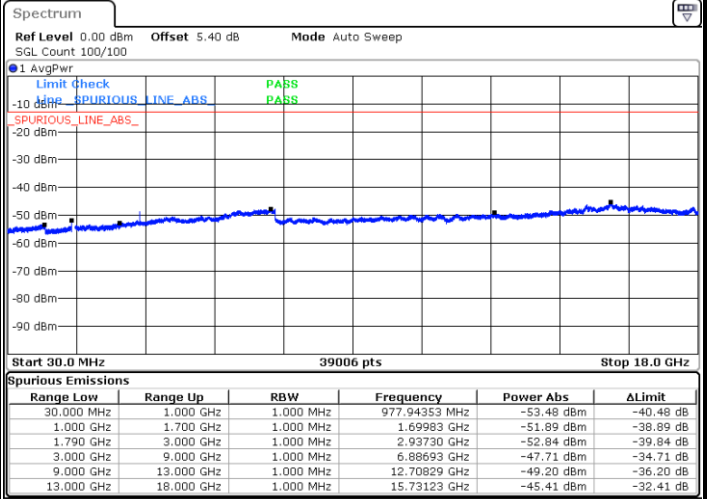
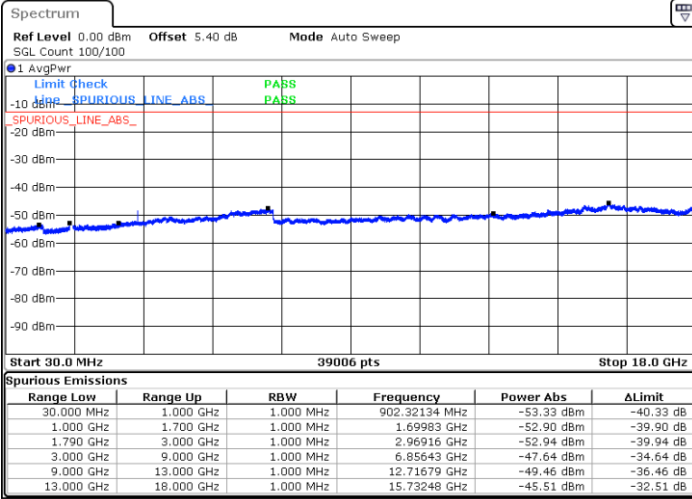
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	973.09595 MHz	-53.12 dBm	-40.12 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69983 GHz	-53.56 dBm	-40.56 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.95020 GHz	-52.79 dBm	-39.79 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.86343 GHz	-47.63 dBm	-34.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70329 GHz	-49.37 dBm	-36.37 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.73956 GHz	-45.34 dBm	-32.34 dB



LTE Band 66 / 20MHz

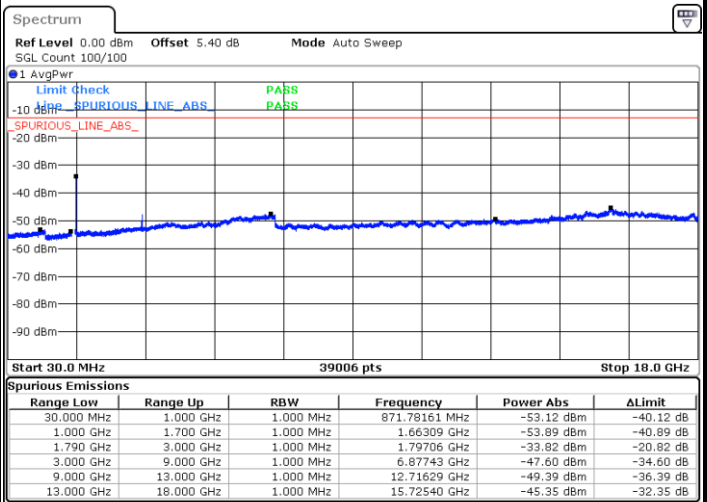
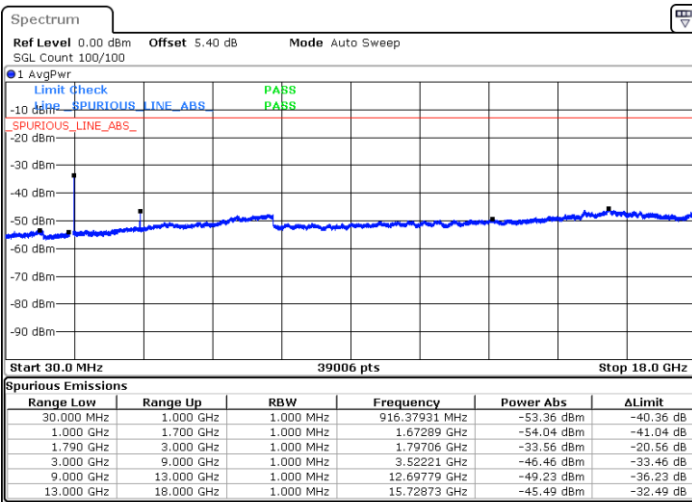
Middle Channel / QPSK

Middle Channel / 16QAM



Highest Channel / QPSK

Highest Channel / 16QAM

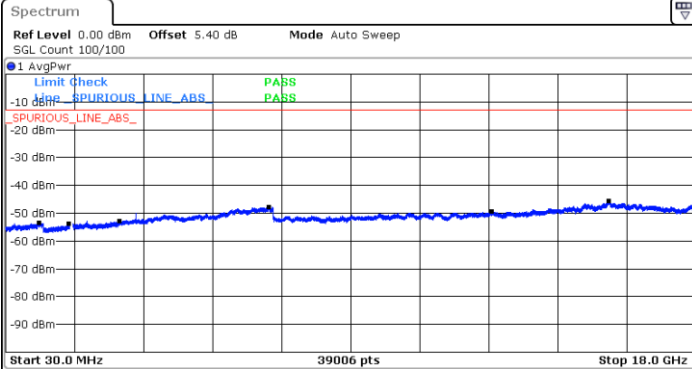




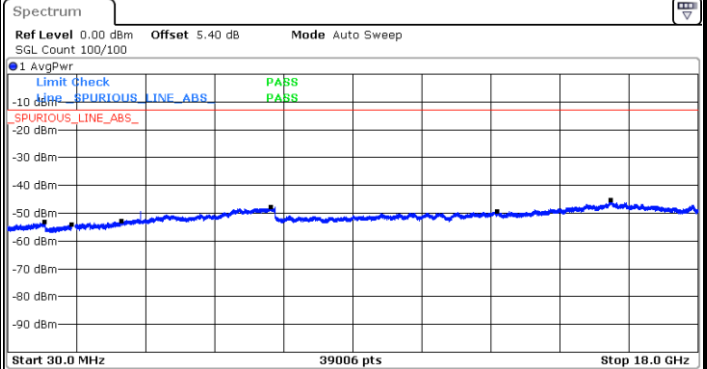
LTE Band 66 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

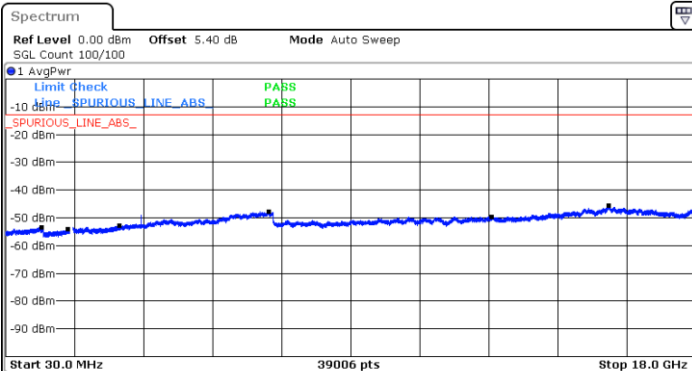


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	887.77861 MHz	-53.35 dBm	-40.35 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66554 GHz	-53.89 dBm	-40.89 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99173 GHz	-52.82 dBm	-39.82 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.87093 GHz	-47.87 dBm	-34.87 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67579 GHz	-49.33 dBm	-36.33 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.72873 GHz	-45.54 dBm	-32.54 dB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	976.48926 MHz	-53.30 dBm	-40.30 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69563 GHz	-54.11 dBm	-41.11 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98206 GHz	-52.80 dBm	-39.80 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88693 GHz	-47.80 dBm	-34.80 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.77878 GHz	-49.49 dBm	-36.49 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.73623 GHz	-45.43 dBm	-32.43 dB

Highest Channel / 64QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	953.70565 MHz	-53.48 dBm	-40.48 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65260 GHz	-54.06 dBm	-41.06 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99617 GHz	-52.99 dBm	-39.99 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.87743 GHz	-47.72 dBm	-34.72 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68429 GHz	-49.56 dBm	-36.56 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.73206 GHz	-45.65 dBm	-32.65 dB

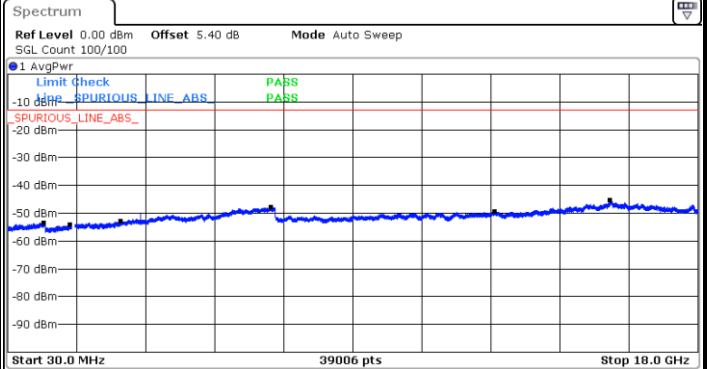
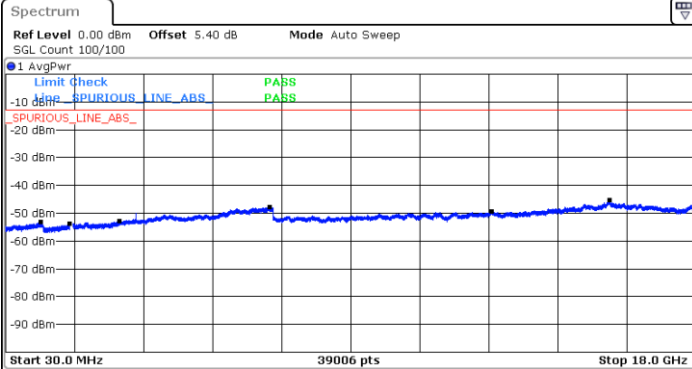




LTE Band 66 / 5MHz

Lowest Channel / 64QAM

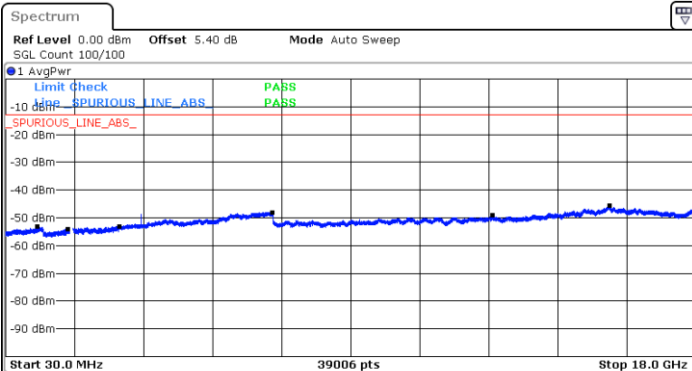
Middle Channel / 64QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	943.04098 MHz	-53.29 dBm	-40.29 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-53.76 dBm	-40.76 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98206 GHz	-52.96 dBm	-39.96 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88943 GHz	-47.89 dBm	-34.89 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.68229 GHz	-49.27 dBm	-36.27 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74915 GHz	-45.36 dBm	-32.36 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	969.70265 MHz	-53.50 dBm	-40.50 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65540 GHz	-54.06 dBm	-41.06 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.97359 GHz	-52.78 dBm	-39.78 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88743 GHz	-47.83 dBm	-34.83 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69429 GHz	-49.38 dBm	-36.38 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.71207 GHz	-45.22 dBm	-32.22 dB

Highest Channel / 64QAM



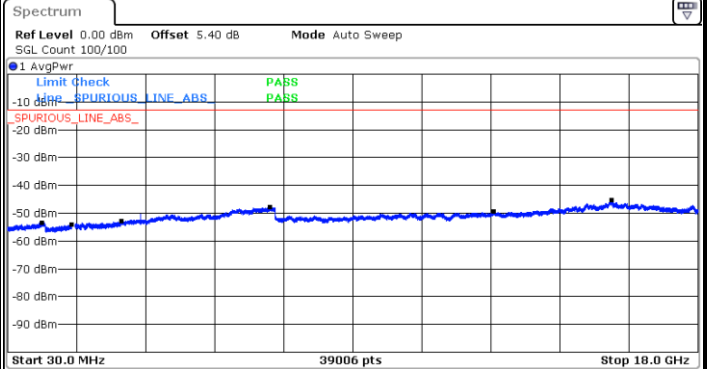
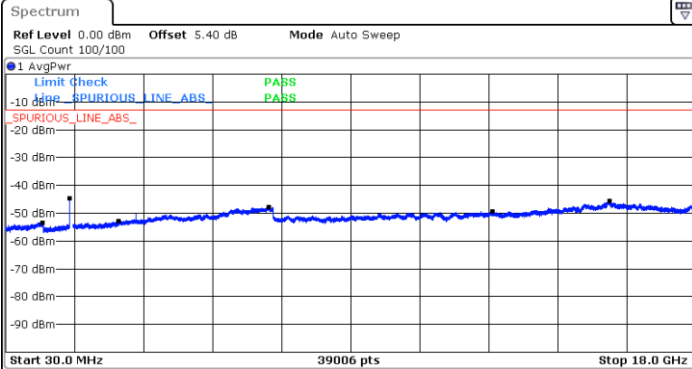
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	855.29985 MHz	-53.20 dBm	-40.20 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.65190 GHz	-54.04 dBm	-41.04 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99133 GHz	-53.08 dBm	-40.08 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.96342 GHz	-47.99 dBm	-34.99 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69579 GHz	-49.14 dBm	-36.14 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74415 GHz	-45.47 dBm	-32.47 dB



LTE Band 66 / 10MHz

Lowest Channel / 64QAM

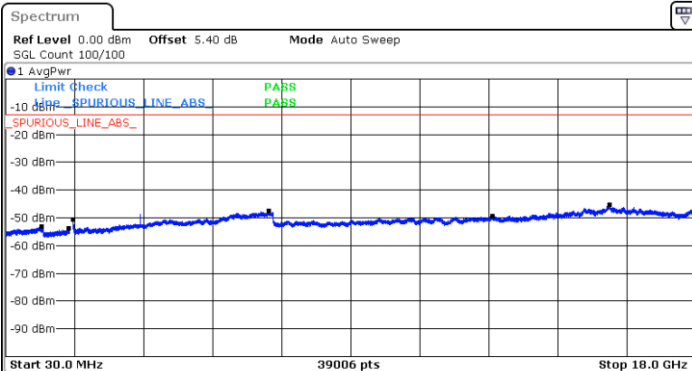
Middle Channel / 64QAM



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.18441 MHz	-53.42 dBm	-40.42 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69318 GHz	-44.74 dBm	-31.74 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.96996 GHz	-52.91 dBm	-39.91 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88143 GHz	-47.77 dBm	-34.77 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69679 GHz	-49.39 dBm	-36.39 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74665 GHz	-45.53 dBm	-32.53 dB

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	922.68116 MHz	-53.47 dBm	-40.47 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.68513 GHz	-54.11 dBm	-41.11 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98327 GHz	-52.93 dBm	-39.93 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.85393 GHz	-47.71 dBm	-34.71 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.67979 GHz	-49.30 dBm	-36.30 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74540 GHz	-45.38 dBm	-32.38 dB

Highest Channel / 64QAM



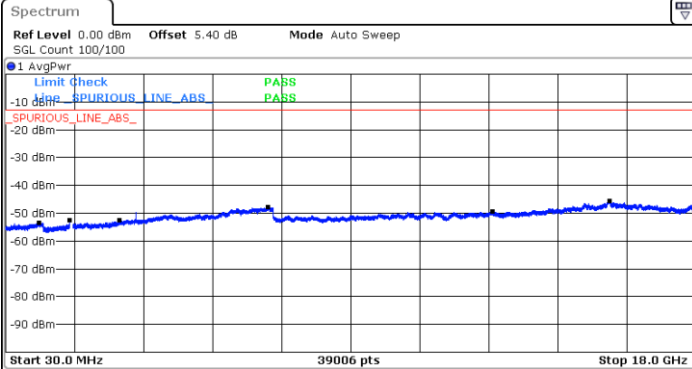
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	955.15992 MHz	-53.30 dBm	-40.30 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.66239 GHz	-53.93 dBm	-40.93 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79302 GHz	-50.69 dBm	-37.69 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88393 GHz	-47.63 dBm	-34.63 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.70329 GHz	-49.48 dBm	-36.48 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75123 GHz	-45.38 dBm	-32.38 dB



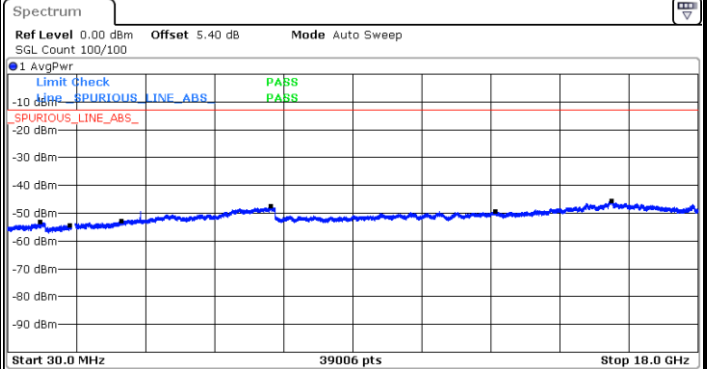
LTE Band 66 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

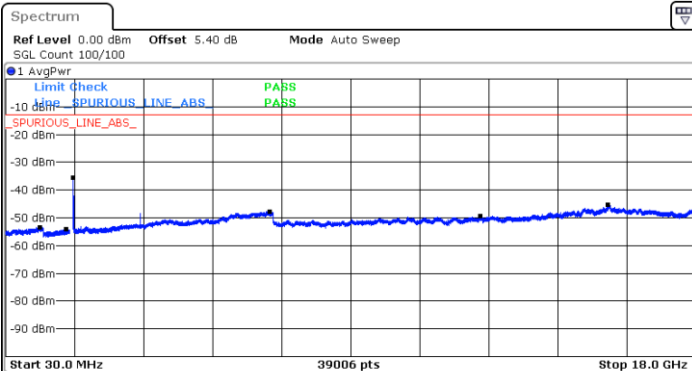


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	903.77561 MHz	-53.37 dBm	-40.37 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69808 GHz	-52.54 dBm	-39.54 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.99617 GHz	-52.60 dBm	-39.60 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.85643 GHz	-47.67 dBm	-34.67 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.69879 GHz	-49.29 dBm	-36.29 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.75498 GHz	-45.53 dBm	-32.53 dB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	876.14443 MHz	-53.25 dBm	-40.25 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.64455 GHz	-54.27 dBm	-41.27 dB
1.790 GHz	3.000 GHz	1.000 MHz	2.98609 GHz	-52.74 dBm	-39.74 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.86943 GHz	-47.58 dBm	-34.58 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.71529 GHz	-49.39 dBm	-36.39 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.74415 GHz	-45.51 dBm	-32.51 dB

Highest Channel / 64QAM



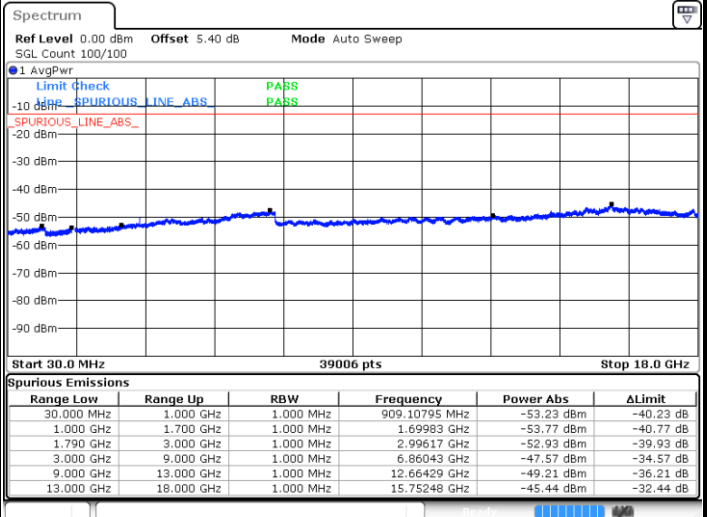
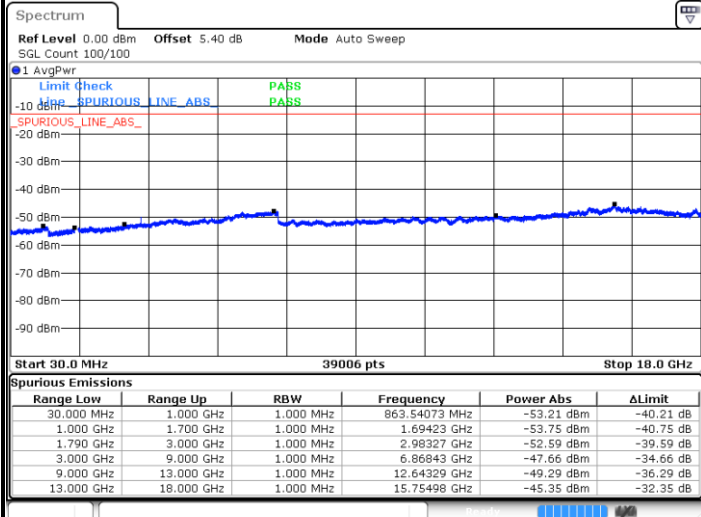
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.58971 MHz	-53.43 dBm	-40.43 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.61097 GHz	-54.09 dBm	-41.09 dB
1.790 GHz	3.000 GHz	1.000 MHz	1.79262 GHz	-35.42 dBm	-22.42 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.88893 GHz	-47.67 dBm	-34.67 dB
9.000 GHz	13.000 GHz	1.000 MHz	12.39083 GHz	-49.27 dBm	-36.27 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.70540 GHz	-45.38 dBm	-32.38 dB



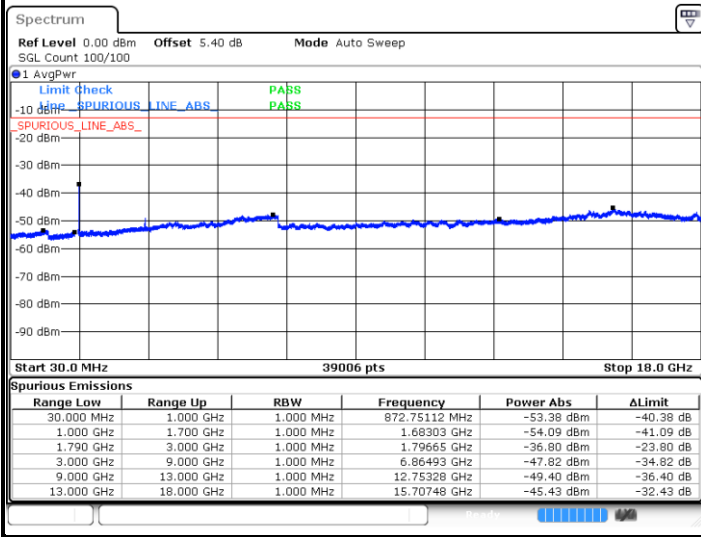
LTE Band 66 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



Highest Channel / 64QAM





Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0051	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

LTE Band 66/ 20MHz / QPSK								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3471	-58.91	-13	-45.91	-69.65	2.604	13.34	H
	5208.27	-53.59	-13	-40.59	-64.10	3.011	13.52	H
	6948	-49.53	-13	-36.53	-59.73	3.271	13.47	H
	3471	-58.78	-13	-45.78	-69.52	2.604	13.34	V
	5208.27	-53.46	-13	-40.46	-63.97	3.011	13.52	V
	6948	-48.95	-13	-35.95	-59.15	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



## **Appendix D. Reference Report**

Please refer to Sporton report number FG011801B which is issued separately.