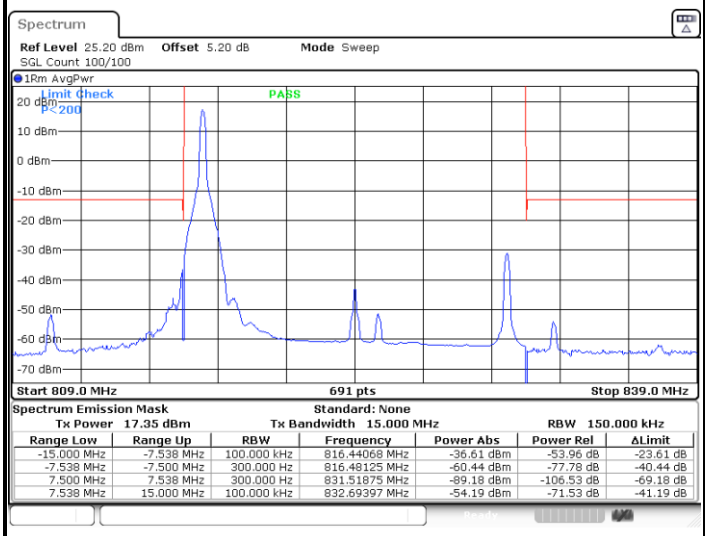
LTE Band 26 / 15MHz / 256QAM

Highest Band Edge / 1 RB

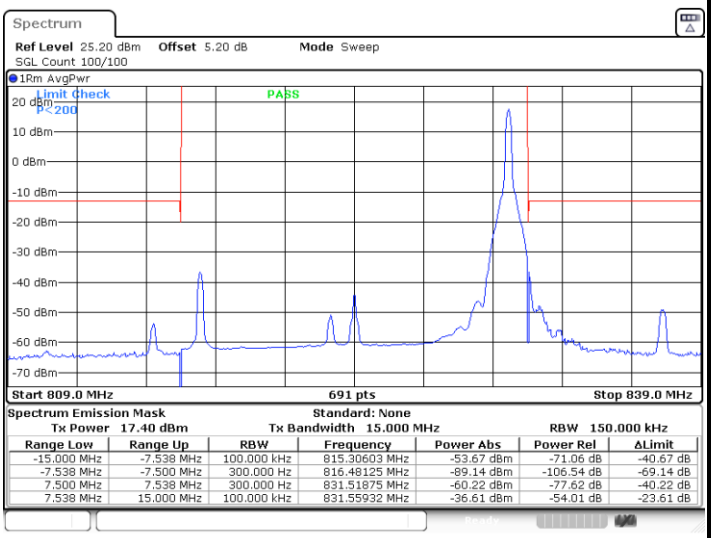


Spectrum Emission Mask Standard: None
Tx Power 17.35 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-36.61 dBm	-53.96 dB	-23.61 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-60.44 dBm	-77.78 dB	-40.44 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-89.18 dBm	-106.53 dB	-69.18 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.69397 MHz	-54.19 dBm	-71.53 dB	-41.19 dB

Date: 5.DEC.2023 09:47:22

Highest Band Edge / 1 RB max

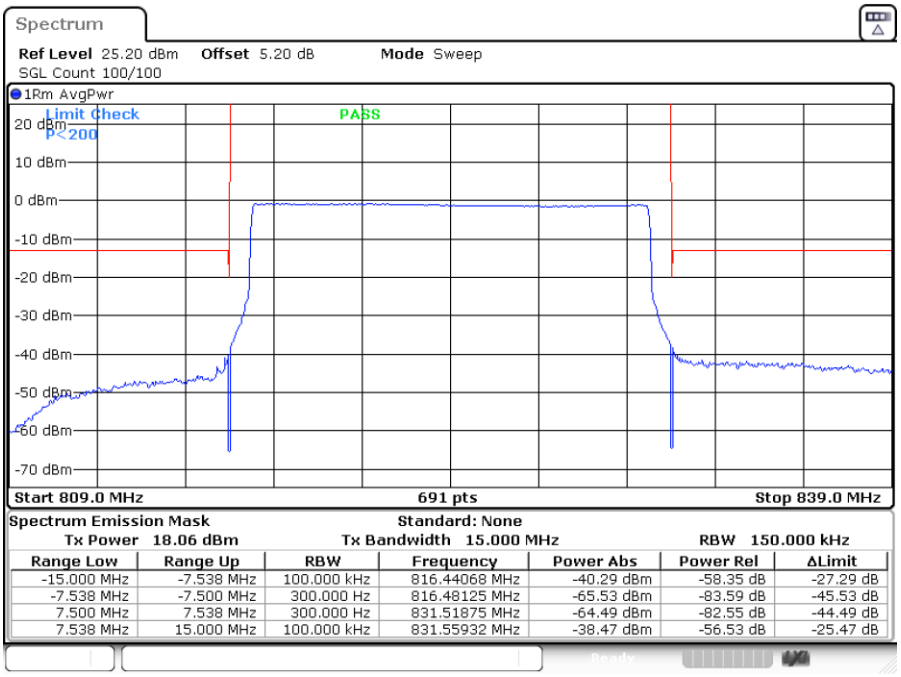


Spectrum Emission Mask Standard: None
Tx Power 17.40 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	815.30603 MHz	-53.67 dBm	-71.06 dB	-40.67 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-89.14 dBm	-106.54 dB	-69.14 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-60.22 dBm	-77.62 dB	-40.22 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-36.61 dBm	-54.01 dB	-23.61 dB

Date: 5.DEC.2023 09:48:25

Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 18.06 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

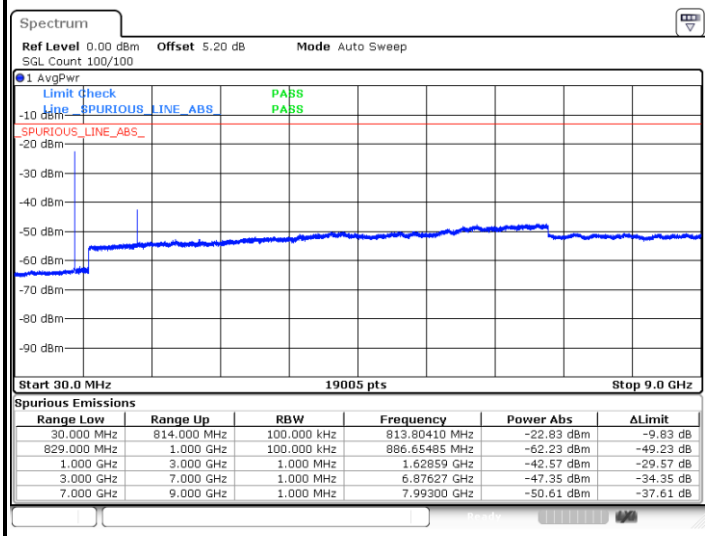
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-40.29 dBm	-58.35 dB	-27.29 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-65.53 dBm	-83.59 dB	-45.53 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-64.49 dBm	-82.55 dB	-44.49 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-38.47 dBm	-56.53 dB	-25.47 dB

Date: 5.DEC.2023 09:49:29

Conducted Spurious Emission

LTE Band 26 / 1.4MHz

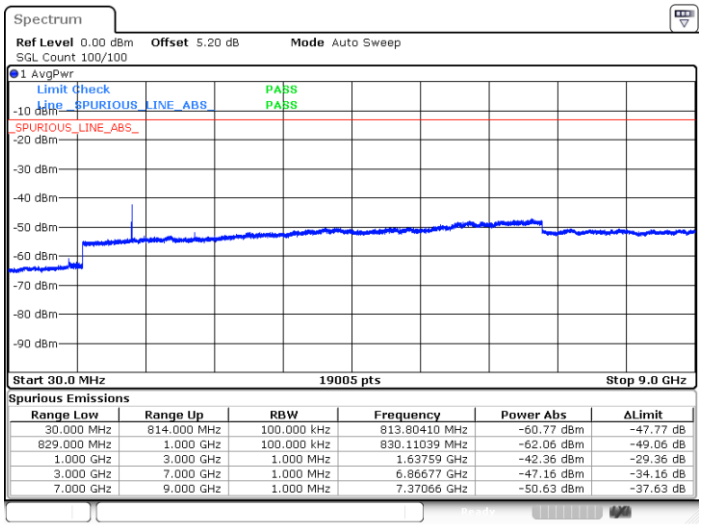
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-22.83 dBm	-9.83 dB
829.000 MHz	1.000 GHz	100.000 kHz	886.65485 MHz	-62.23 dBm	-49.23 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.57 dBm	-29.57 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87627 GHz	-47.35 dBm	-34.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99300 GHz	-50.61 dBm	-37.61 dB

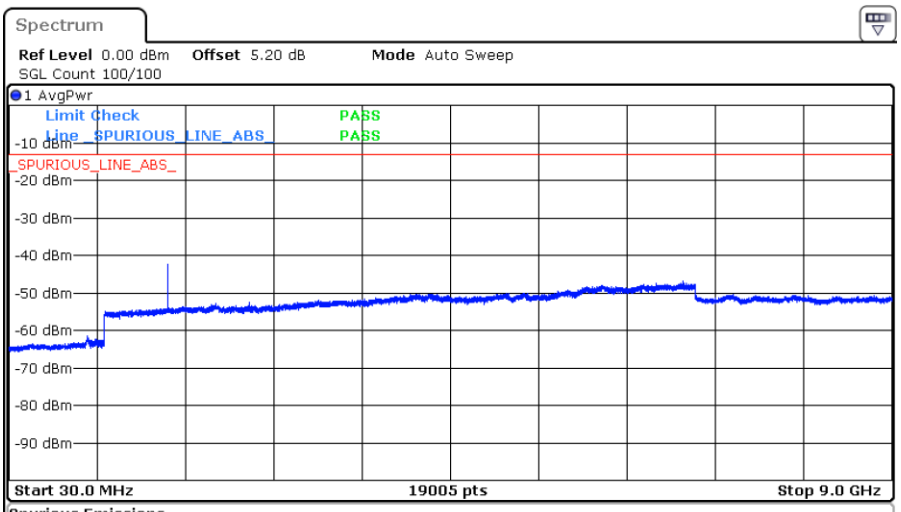
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.77 dBm	-47.77 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.11039 MHz	-62.06 dBm	-49.06 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-42.36 dBm	-29.36 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86677 GHz	-47.16 dBm	-34.16 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.37066 GHz	-50.63 dBm	-37.63 dB

Highest Channel / QPSK

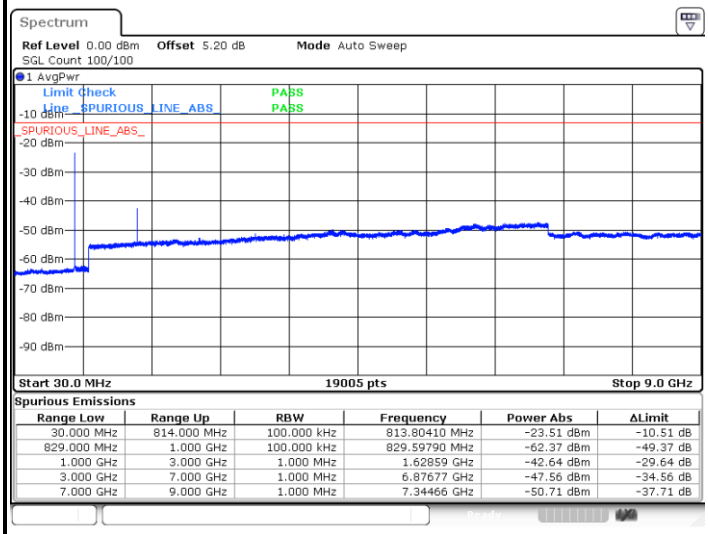


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-62.62 dBm	-49.62 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.25624 MHz	-61.43 dBm	-48.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-42.43 dBm	-29.43 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87577 GHz	-46.89 dBm	-33.89 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38515 GHz	-50.46 dBm	-37.46 dB

LTE Band 26 / 3MHz

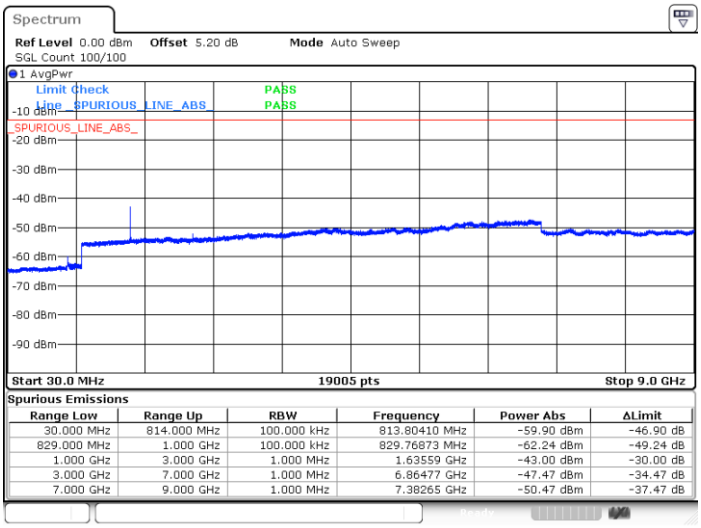
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-23.51 dBm	-10.51 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.59790 MHz	-62.37 dBm	-49.37 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.64 dBm	-29.64 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87677 GHz	-47.56 dBm	-34.56 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34466 GHz	-50.71 dBm	-37.71 dB

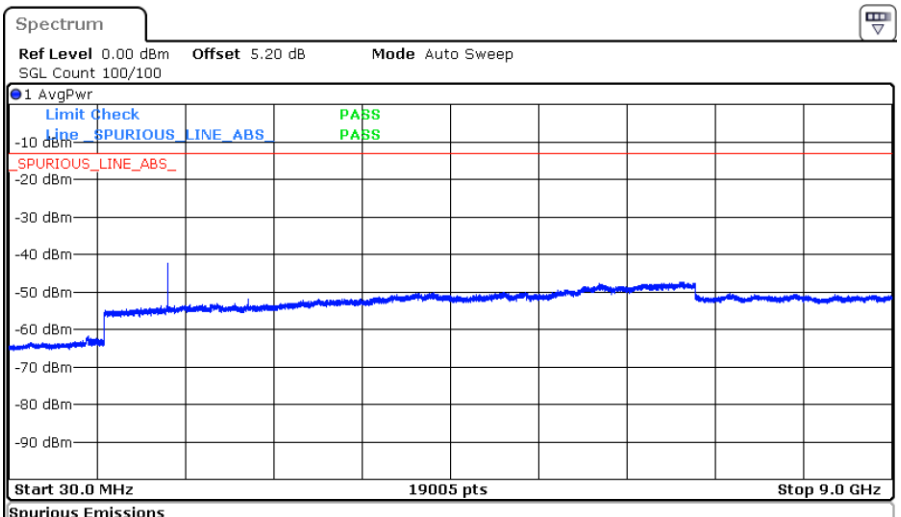
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-59.90 dBm	-46.90 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.76873 MHz	-62.24 dBm	-49.24 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-43.00 dBm	-30.00 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86477 GHz	-47.47 dBm	-34.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.38265 GHz	-50.47 dBm	-37.47 dB

Highest Channel / QPSK

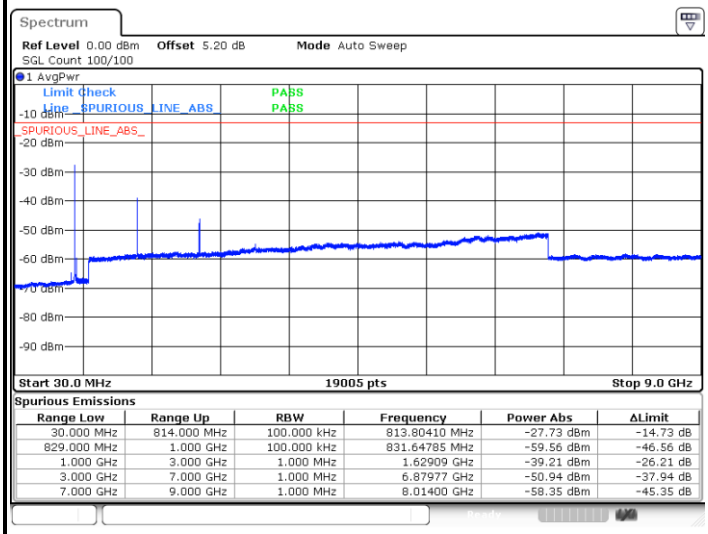


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-62.35 dBm	-49.35 dB
829.000 MHz	1.000 GHz	100.000 kHz	833.18531 MHz	-61.90 dBm	-48.90 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-42.44 dBm	-29.44 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.85927 GHz	-47.34 dBm	-34.34 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.35666 GHz	-50.45 dBm	-37.45 dB

LTE Band 26 / 5MHz

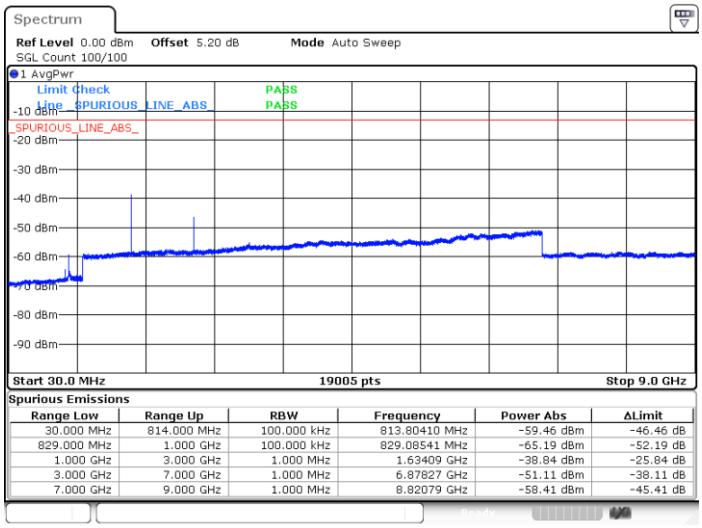
Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-27.73 dBm	-14.73 dB
829.000 MHz	1.000 GHz	100.000 kHz	831.64785 MHz	-59.56 dBm	-46.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-39.21 dBm	-26.21 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87977 GHz	-50.94 dBm	-37.94 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.01400 GHz	-58.35 dBm	-45.35 dB

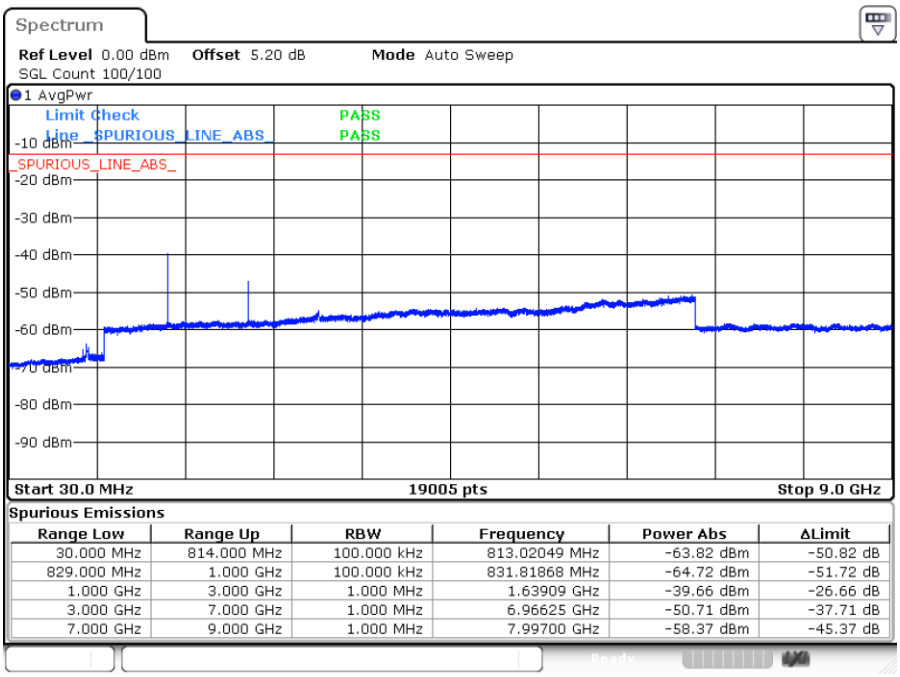
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-59.46 dBm	-46.46 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.08541 MHz	-65.19 dBm	-52.19 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-38.84 dBm	-25.84 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.87827 GHz	-51.11 dBm	-38.11 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.82079 GHz	-58.41 dBm	-45.41 dB

Highest Channel / QPSK

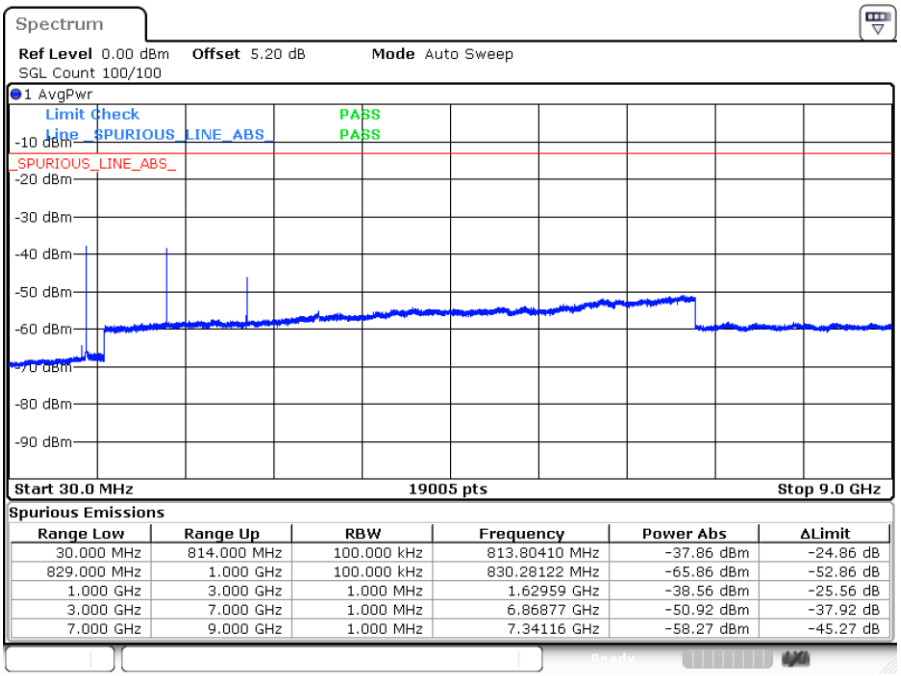


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.02049 MHz	-63.82 dBm	-50.82 dB
829.000 MHz	1.000 GHz	100.000 kHz	831.81868 MHz	-64.72 dBm	-51.72 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-39.66 dBm	-26.66 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.96625 GHz	-50.71 dBm	-37.71 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.99700 GHz	-58.37 dBm	-45.37 dB

LTE Band 26 / 10MHz

Middle Channel / QPSK

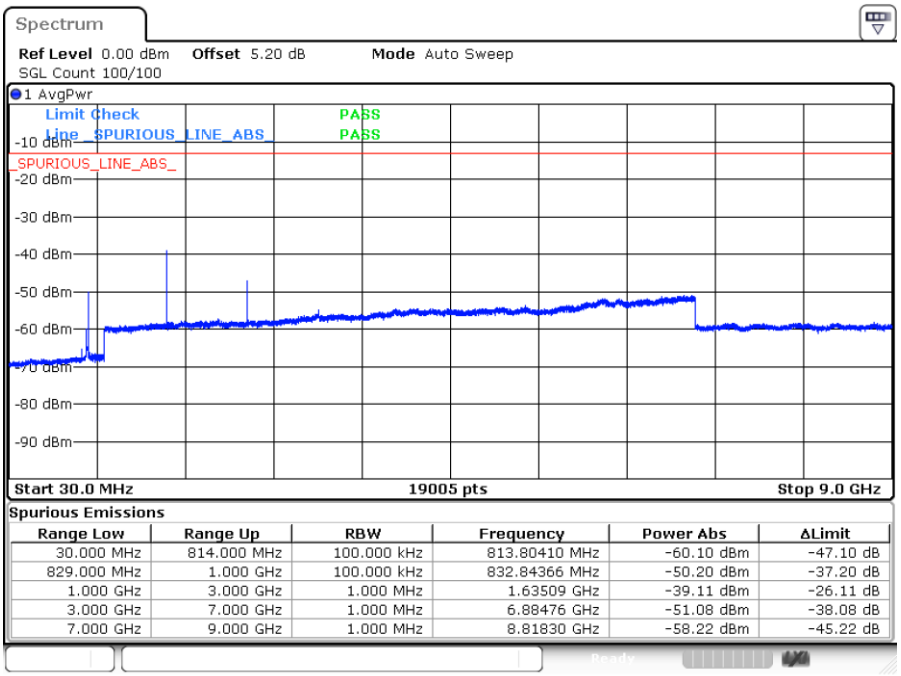


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-37.86 dBm	-24.86 dB
829.000 MHz	1.000 GHz	100.000 kHz	830.28122 MHz	-65.86 dBm	-52.86 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-38.56 dBm	-25.56 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.86877 GHz	-50.92 dBm	-37.92 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34116 GHz	-58.27 dBm	-45.27 dB

LTE Band 26 / 15MHz

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.10 dBm	-47.10 dB
829.000 MHz	1.000 GHz	100.000 kHz	832.84366 MHz	-50.20 dBm	-37.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-39.11 dBm	-26.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.88476 GHz	-51.08 dBm	-38.08 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.81830 GHz	-58.22 dBm	-45.22 dB

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0039	PASS
40	Normal Voltage	0.0051	
30	Normal Voltage	0.0022	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0027	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0038	
20	Maximum Voltage	0.0034	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0016	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Carry Xu	Temperature :	23~25℃
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

LTE Band 26 / 10MHz / QPSK / Ant. 0								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1632	-67.65	-13	-54.65	-74.62	1.58	10.70	H
	2440	-68.91	-13	-55.91	-77.16	2.102	12.50	H
	3256	-68.89	-13	-55.89	-77.78	2.856	13.90	H
	1632	-67.74	-13	-54.74	-74.71	1.58	10.70	V
	2440	-68.73	-13	-55.73	-76.98	2.10	12.50	V
	3256	-69.02	-13	-56.02	-77.91	2.86	13.90	V

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