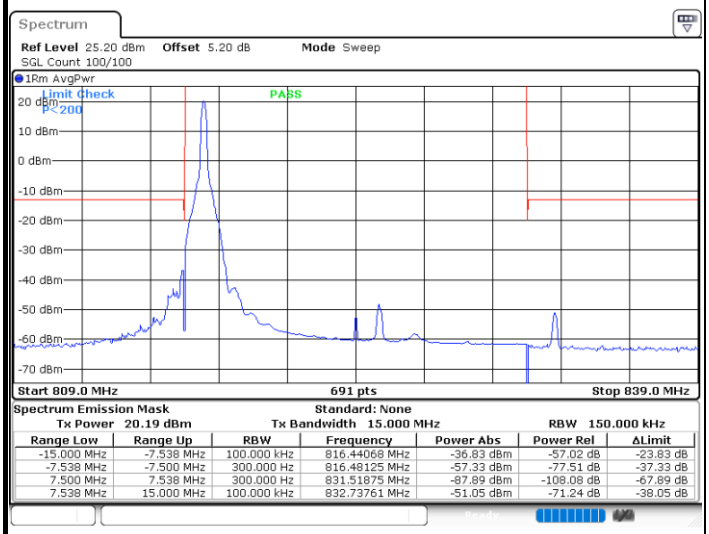
LTE Band 26 / 15MHz / 64QAM

Highest Band Edge / 1 RB

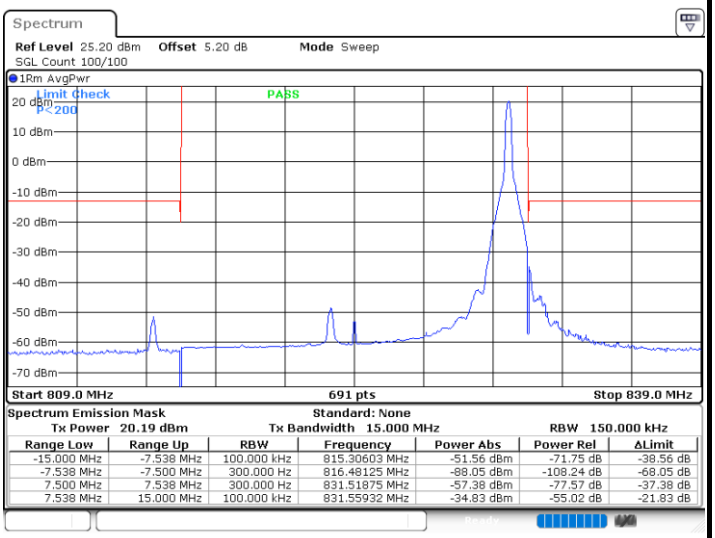


Spectrum Emission Mask Standard: None
Tx Power 20.19 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-36.83 dBm	-57.02 dB	-23.83 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-57.33 dBm	-77.51 dB	-37.33 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-87.89 dBm	-108.08 dB	-67.89 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.73761 MHz	-51.05 dBm	-71.24 dB	-38.05 dB

Date: 29.JUL.2024 04:37:07

Highest Band Edge / 1 RB max

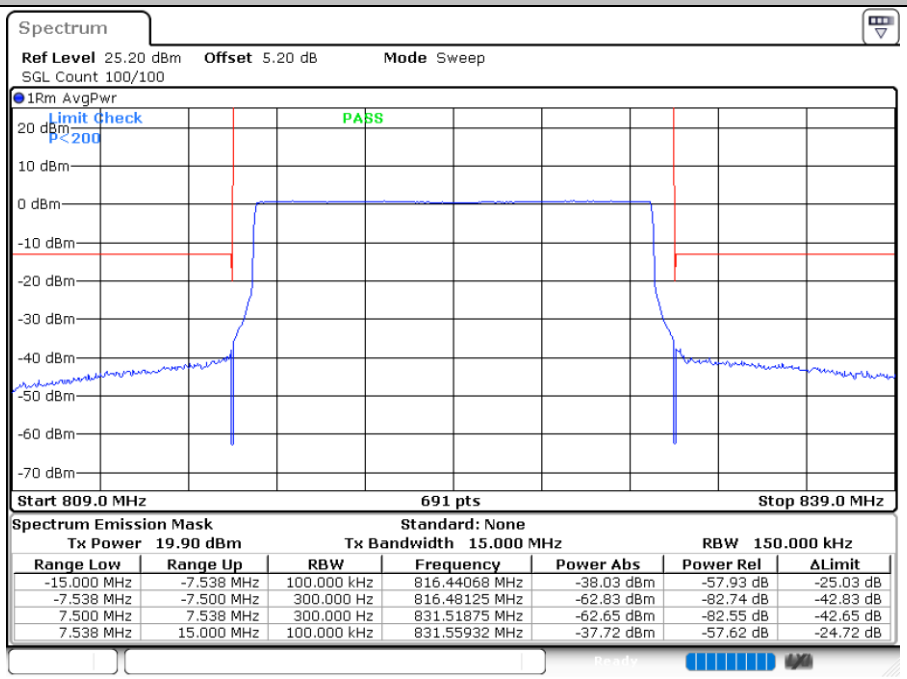


Spectrum Emission Mask Standard: None
Tx Power 20.19 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	815.30603 MHz	-51.56 dBm	-71.75 dB	-38.56 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-88.05 dBm	-108.24 dB	-68.05 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-57.38 dBm	-77.57 dB	-37.38 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-34.83 dBm	-55.02 dB	-21.83 dB

Date: 29.JUL.2024 04:42:50

Band Edge / Full RB



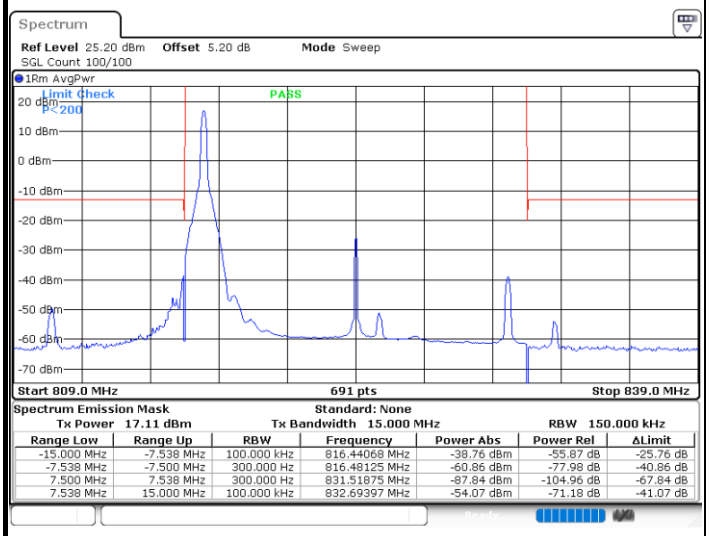
Spectrum Emission Mask Standard: None
Tx Power 19.90 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-38.03 dBm	-57.93 dB	-25.03 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-62.83 dBm	-82.74 dB	-42.83 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-62.65 dBm	-82.55 dB	-42.65 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-37.72 dBm	-57.62 dB	-24.72 dB

Date: 29.JUL.2024 04:48:32

LTE Band 26 / 15MHz / 256QAM

Highest Band Edge / 1 RB

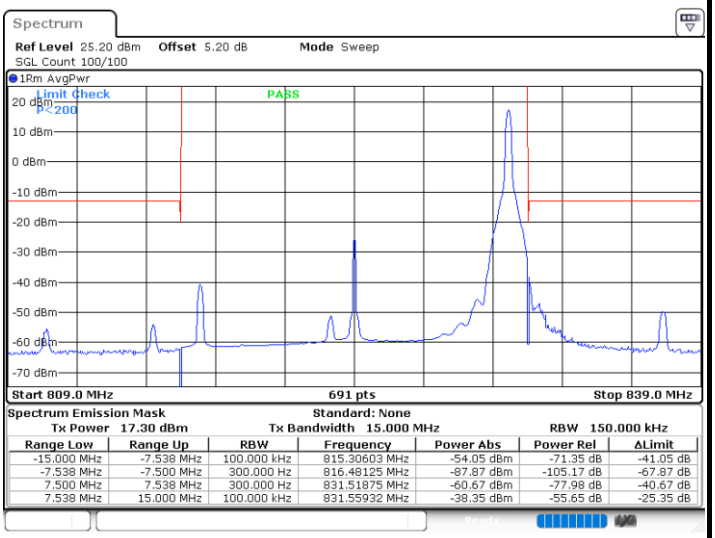


Spectrum Emission Mask Standard: None
Tx Power 17.11 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.44068 MHz	-38.76 dBm	-55.87 dB	-25.76 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-60.86 dBm	-77.98 dB	-40.86 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-87.84 dBm	-104.96 dB	-67.84 dB
7.538 MHz	15.000 MHz	100.000 kHz	832.69397 MHz	-54.07 dBm	-71.18 dB	-41.07 dB

Date: 29.JUL.2024 04:38:32

Highest Band Edge / 1 RB max

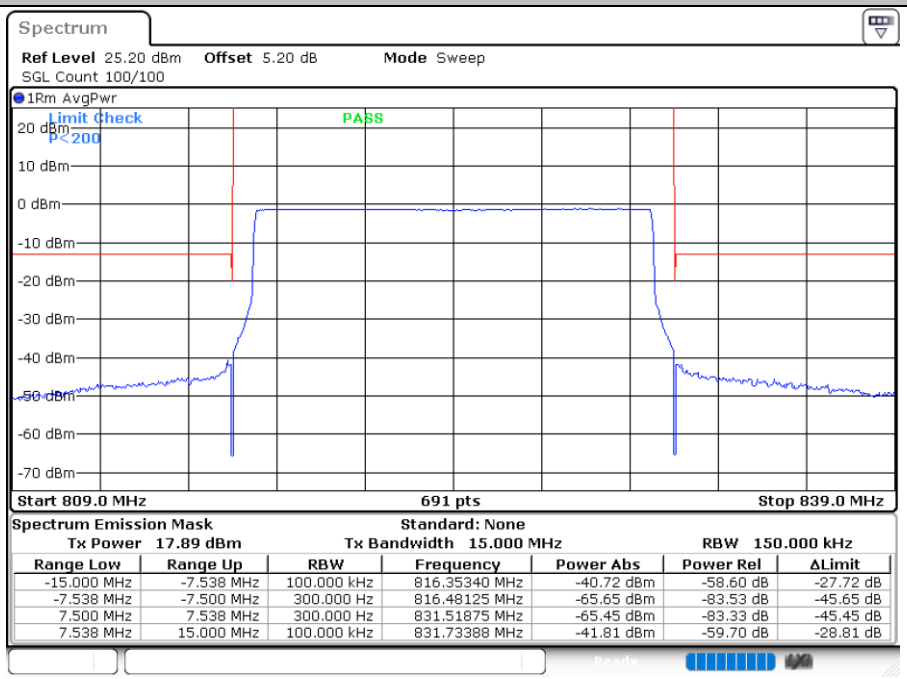


Spectrum Emission Mask Standard: None
Tx Power 17.30 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	815.30603 MHz	-54.05 dBm	-71.35 dB	-41.05 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-87.87 dBm	-105.17 dB	-67.87 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-60.67 dBm	-77.98 dB	-40.67 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.55932 MHz	-38.35 dBm	-55.65 dB	-25.35 dB

Date: 29.JUL.2024 04:44:15

Band Edge / Full RB



Spectrum Emission Mask Standard: None
Tx Power 17.89 dBm Tx Bandwidth 15.000 MHz RBW 150.000 kHz

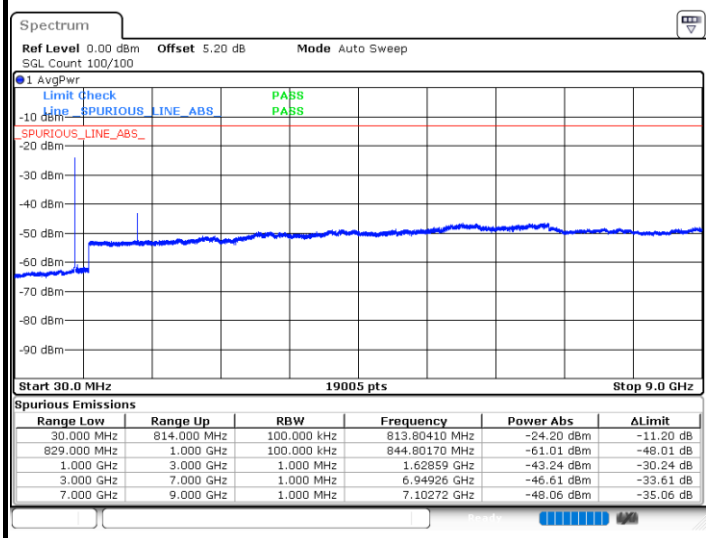
Range Low	Range Up	RBW	Frequency	Power Abs	Power Rel	ΔLimit
-15.000 MHz	-7.538 MHz	100.000 kHz	816.35340 MHz	-40.72 dBm	-58.60 dB	-27.72 dB
-7.538 MHz	-7.500 MHz	300.000 Hz	816.48125 MHz	-65.65 dBm	-83.53 dB	-45.65 dB
7.500 MHz	7.538 MHz	300.000 Hz	831.51875 MHz	-65.45 dBm	-83.33 dB	-45.45 dB
7.538 MHz	15.000 MHz	100.000 kHz	831.73388 MHz	-41.81 dBm	-59.70 dB	-28.81 dB

Date: 29.JUL.2024 04:49:57

Conducted Spurious Emission

LTE Band 26 / 1.4MHz

Lowest Channel / QPSK

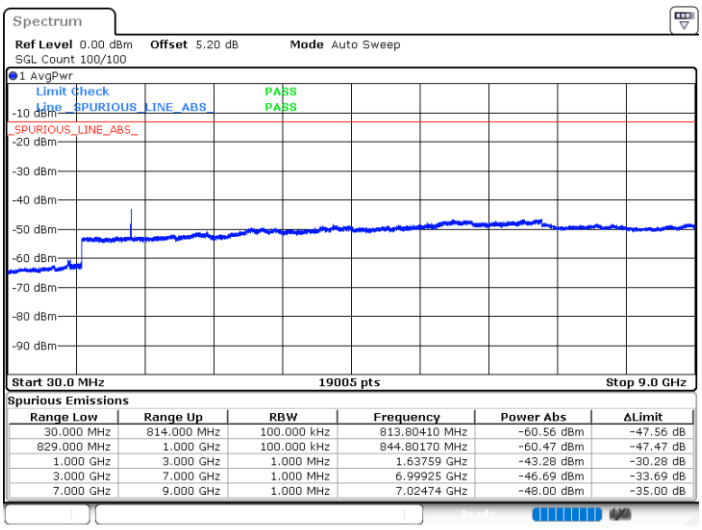


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-24.20 dBm	-11.20 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-61.01 dBm	-48.01 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-43.24 dBm	-30.24 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94926 GHz	-46.61 dBm	-33.61 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.10272 GHz	-48.06 dBm	-35.06 dB

Date: 29.JUL.2024 02:13:59

Middle Channel / QPSK

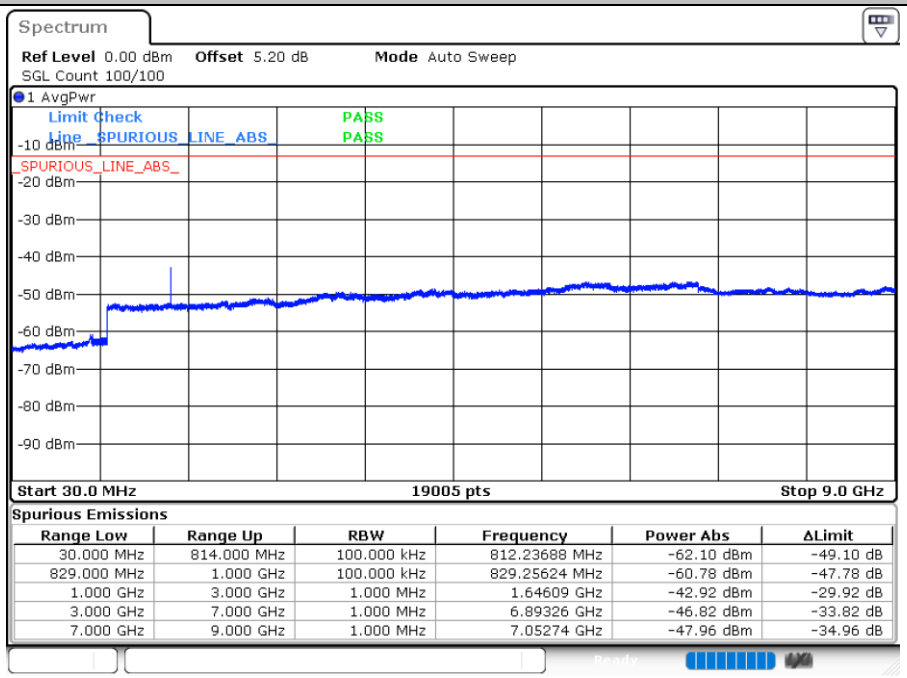


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-60.56 dBm	-47.56 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-60.47 dBm	-47.47 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63759 GHz	-43.28 dBm	-30.28 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99925 GHz	-46.69 dBm	-33.69 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02474 GHz	-48.00 dBm	-35.00 dB

Date: 29.JUL.2024 02:28:49

Highest Channel / QPSK



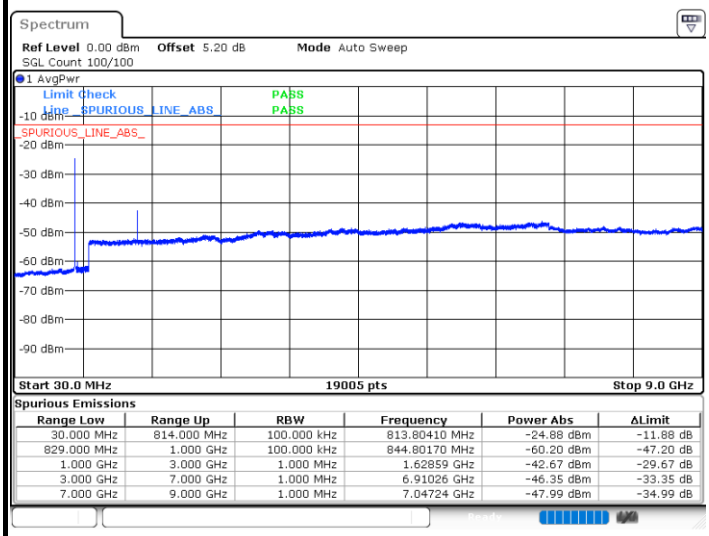
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	812.23688 MHz	-62.10 dBm	-49.10 dB
829.000 MHz	1.000 GHz	100.000 kHz	829.25624 MHz	-60.78 dBm	-47.78 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64609 GHz	-42.92 dBm	-29.92 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89326 GHz	-46.82 dBm	-33.82 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05274 GHz	-47.96 dBm	-34.96 dB

Date: 29.JUL.2024 02:30:16

LTE Band 26 / 3MHz

Lowest Channel / QPSK

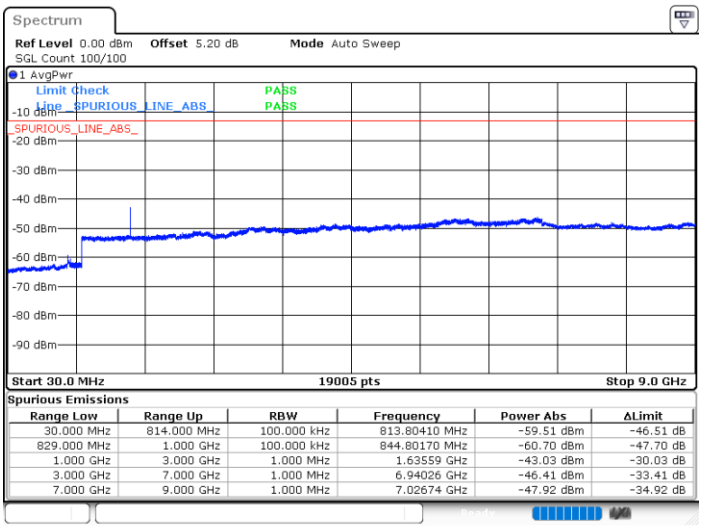


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-24.88 dBm	-11.88 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-60.20 dBm	-47.20 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62859 GHz	-42.67 dBm	-29.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91026 GHz	-46.35 dBm	-33.35 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04724 GHz	-47.99 dBm	-34.99 dB

Date: 29.JUL.2024 03:04:53

Middle Channel / QPSK

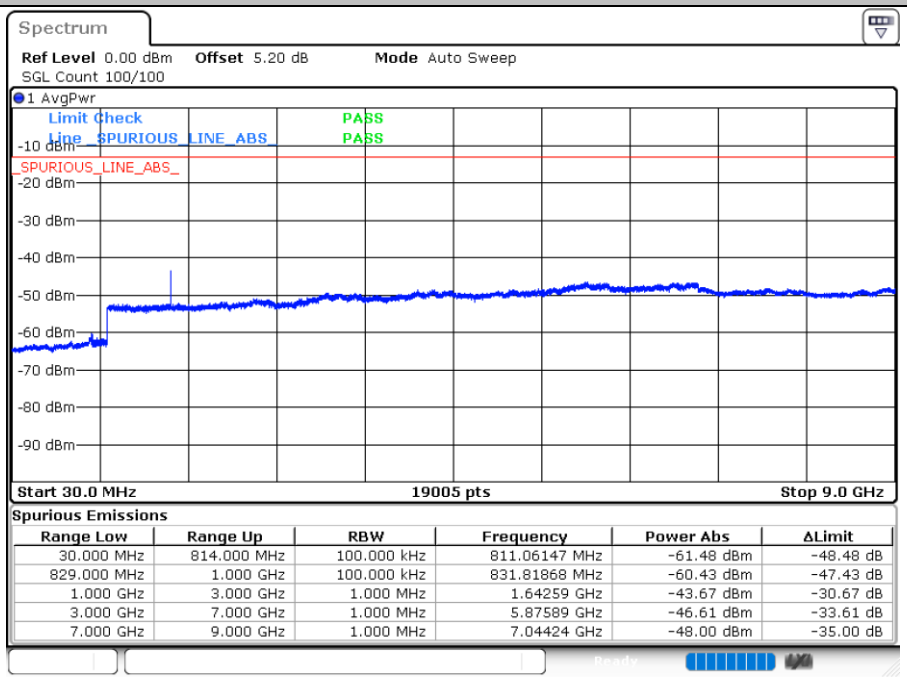


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-59.51 dBm	-46.51 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-60.70 dBm	-47.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63559 GHz	-43.03 dBm	-30.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.94026 GHz	-46.41 dBm	-33.41 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.02674 GHz	-47.92 dBm	-34.92 dB

Date: 29.JUL.2024 03:19:46

Highest Channel / QPSK



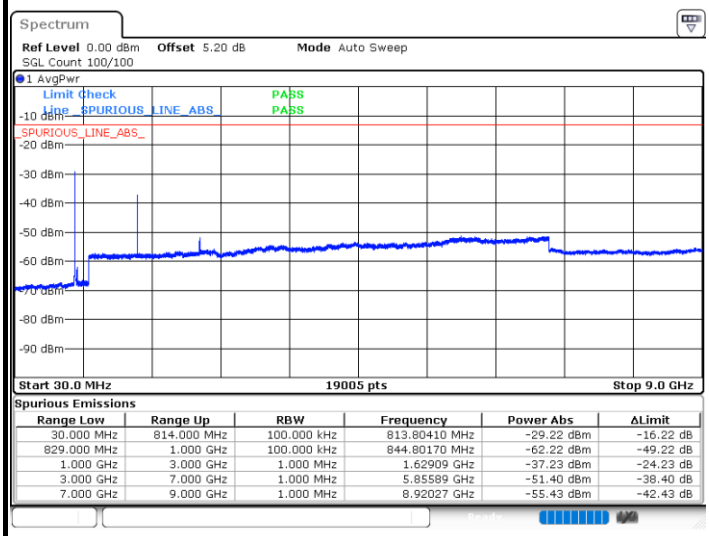
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	811.06147 MHz	-61.48 dBm	-48.48 dB
829.000 MHz	1.000 GHz	100.000 kHz	831.81868 MHz	-60.43 dBm	-47.43 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.64259 GHz	-43.67 dBm	-30.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.87589 GHz	-46.61 dBm	-33.61 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04424 GHz	-48.00 dBm	-35.00 dB

Date: 29.JUL.2024 03:21:13

LTE Band 26 / 5MHz

Lowest Channel / QPSK

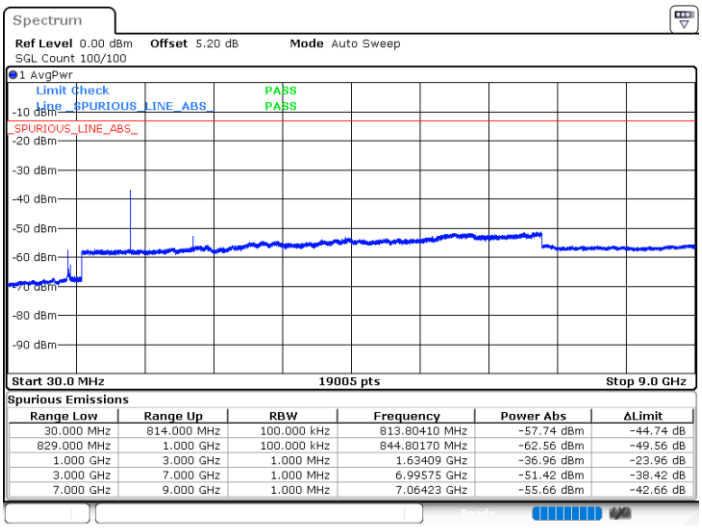


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-29.22 dBm	-16.22 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-62.22 dBm	-49.22 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62909 GHz	-37.23 dBm	-24.23 dB
3.000 GHz	7.000 GHz	1.000 MHz	5.85589 GHz	-51.40 dBm	-38.40 dB
7.000 GHz	9.000 GHz	1.000 MHz	8.92027 GHz	-55.43 dBm	-42.43 dB

Date: 29.JUL.2024 03:39:01

Middle Channel / QPSK

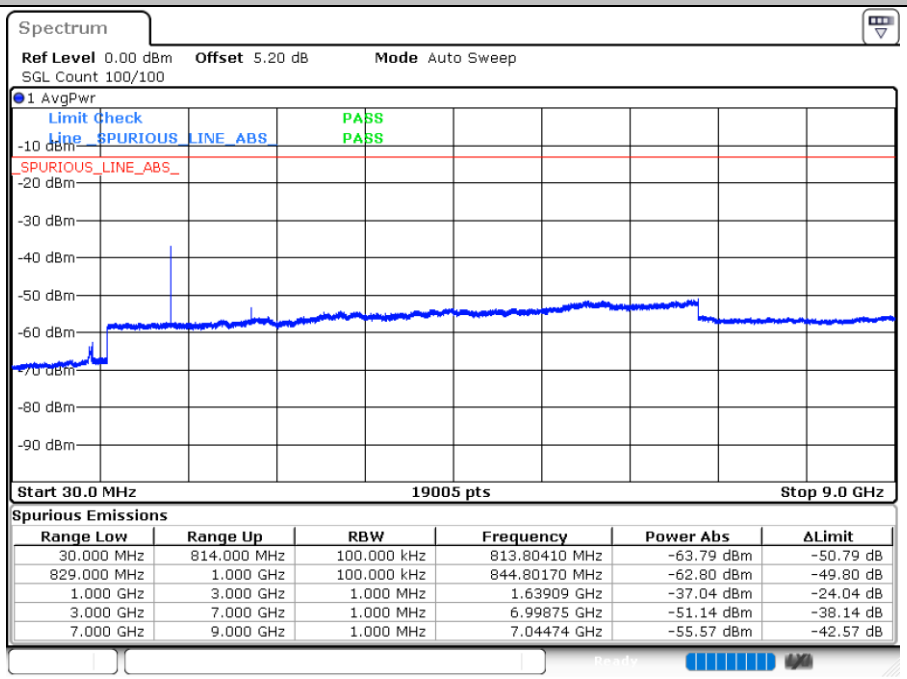


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-57.74 dBm	-44.74 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-62.56 dBm	-49.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63409 GHz	-36.96 dBm	-23.96 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99575 GHz	-51.42 dBm	-38.42 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.06423 GHz	-55.66 dBm	-42.66 dB

Date: 29.JUL.2024 03:51:49

Highest Channel / QPSK



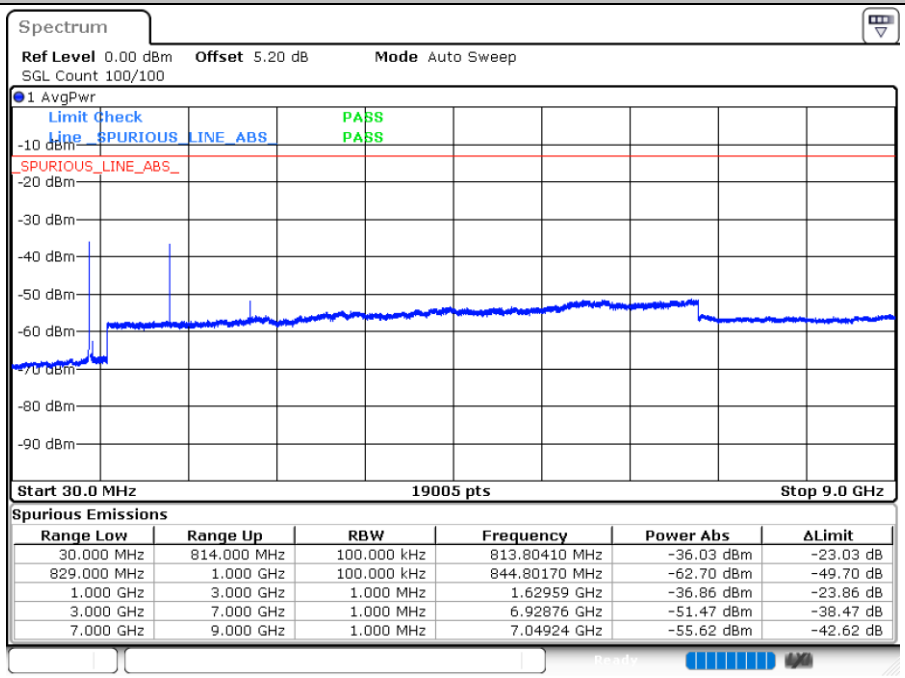
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-63.79 dBm	-50.79 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-62.80 dBm	-49.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63909 GHz	-37.04 dBm	-24.04 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.99875 GHz	-51.14 dBm	-38.14 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04474 GHz	-55.57 dBm	-42.57 dB

Date: 29.JUL.2024 03:53:16

LTE Band 26 / 10MHz

Middle Channel / QPSK



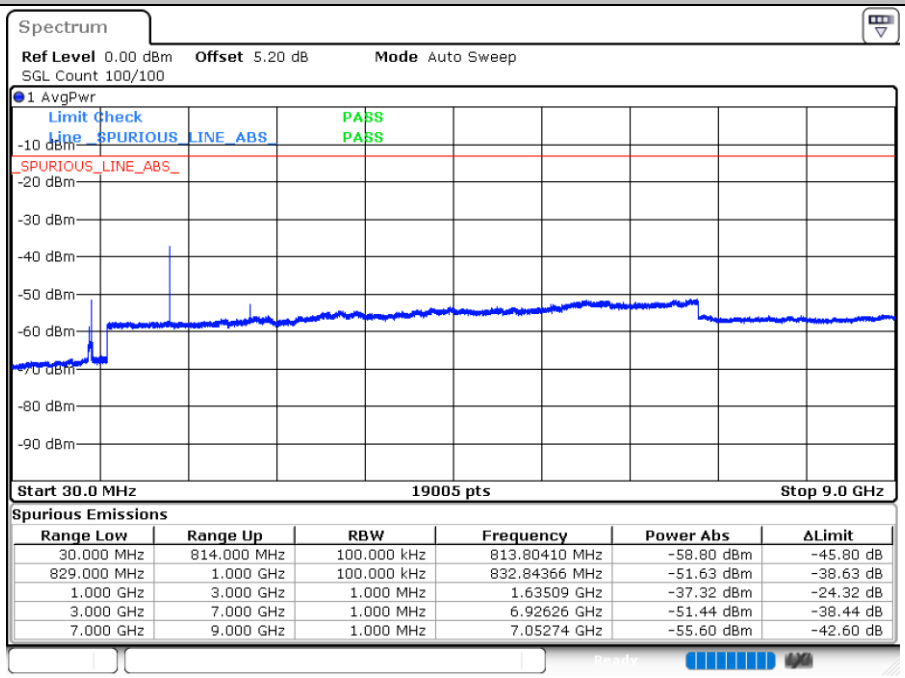
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	814.000 MHz	100.000 kHz	813.80410 MHz	-36.03 dBm	-23.03 dB
829.000 MHz	1.000 GHz	100.000 kHz	844.80170 MHz	-62.70 dBm	-49.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.62959 GHz	-36.86 dBm	-23.86 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92876 GHz	-51.47 dBm	-38.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.04924 GHz	-55.62 dBm	-42.62 dB

Date: 29.JUL.2024 04:11:59

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	-58.80 dBm	-45.80 dB
829.000 MHz	1.000 GHz	100.000 kHz	832.84366 MHz	-51.63 dBm	-38.63 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.63509 GHz	-37.32 dBm	-24.32 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92626 GHz	-51.44 dBm	-38.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.05274 GHz	-55.60 dBm	-42.60 dB

Date: 29.JUL.2024 04:32:53

Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0033	PASS
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0026	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0082	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0052	
20	Normal Voltage	0.0055	
20	Battery End Point	0.0016	

Note: Normal Voltage =3.91 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.5 V.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Jake zhou	Temperature :	23~25℃
		Relative Humidity :	53~58%

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_Ant0								
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	-69.60	-13	-56.60	-76.57	1.58	10.70	H
	2440	-57.41	-13	-44.41	-65.66	2.102	12.50	H
	3256	-68.48	-13	-55.48	-77.37	2.856	13.90	H
	1632	-71.46	-13	-58.46	-78.43	1.58	10.70	V
	2440	-59.85	-13	-46.85	-68.10	2.10	12.50	V
	3256	-68.27	-13	-55.27	-77.16	2.86	13.90	V

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