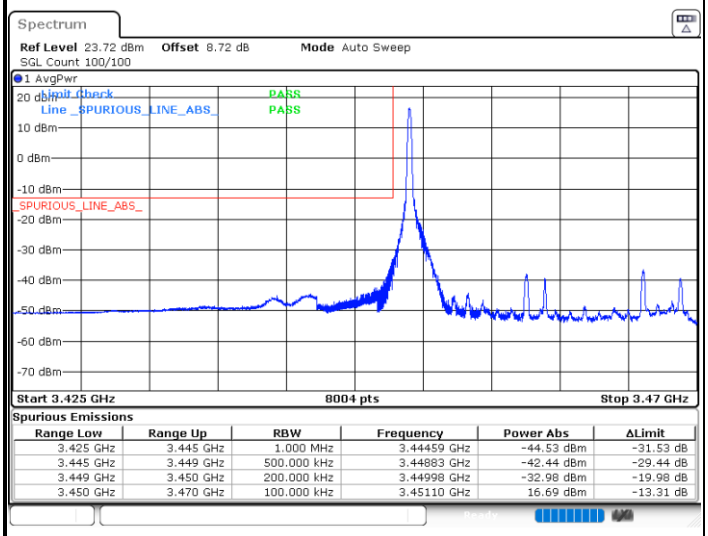
LTE Band 42 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

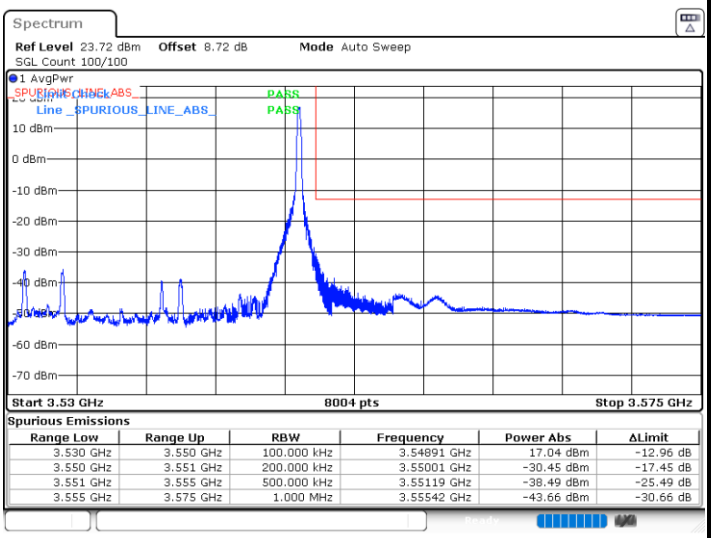


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44459 GHz	-44.53 dBm	-31.53 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44883 GHz	-42.44 dBm	-29.44 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-32.98 dBm	-19.98 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45110 GHz	16.69 dBm	-13.31 dB

Date: 24.MAR.2025 17:59:57

Highest Band Edge / 1 RB

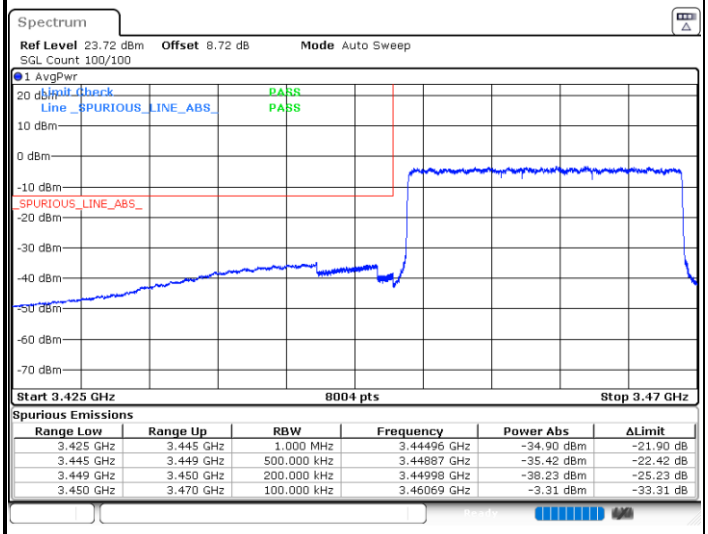


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54891 GHz	17.04 dBm	-12.96 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-30.45 dBm	-17.45 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55119 GHz	-38.49 dBm	-25.49 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55542 GHz	-43.66 dBm	-30.66 dB

Date: 24.MAR.2025 18:14:42

Lowest Band Edge / Full RB

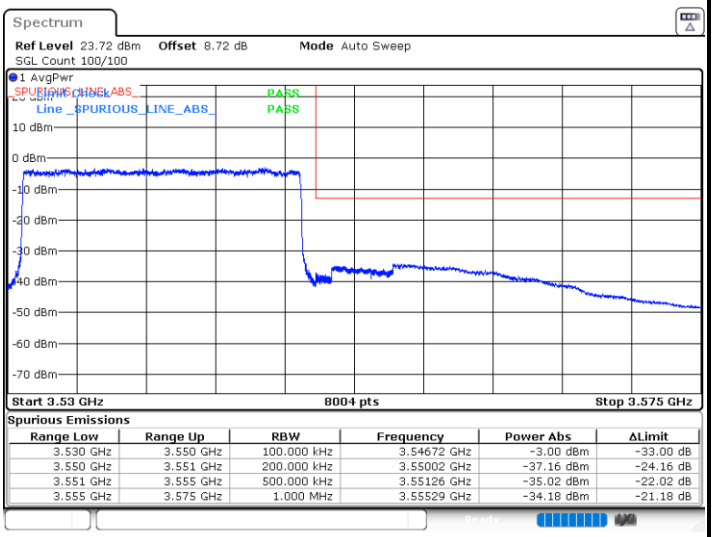


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44496 GHz	-34.90 dBm	-21.90 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44887 GHz	-35.42 dBm	-22.42 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44998 GHz	-38.23 dBm	-25.23 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46069 GHz	-3.31 dBm	-33.31 dB

Date: 24.MAR.2025 18:03:59

Highest Band Edge / Full RB



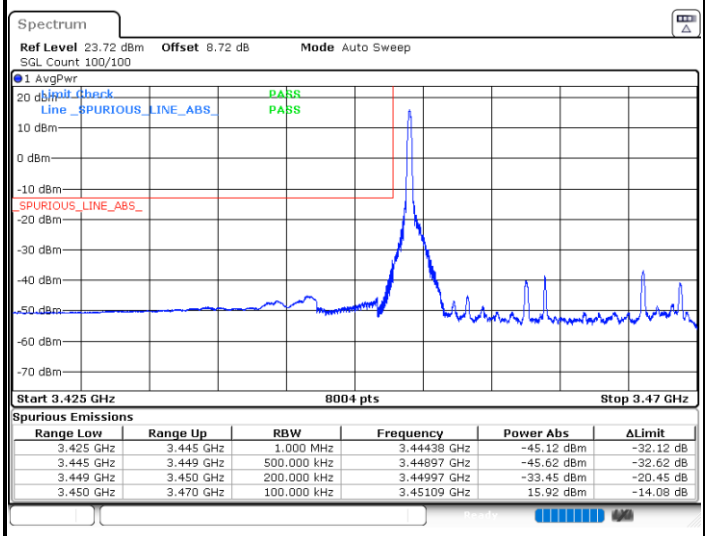
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54672 GHz	-3.00 dBm	-33.00 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55002 GHz	-37.16 dBm	-24.16 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55126 GHz	-35.02 dBm	-22.02 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55529 GHz	-34.18 dBm	-21.18 dB

Date: 24.MAR.2025 18:18:56

LTE Band 42 / 20MHz / 64QAM

Lowest Band Edge / 1 RB

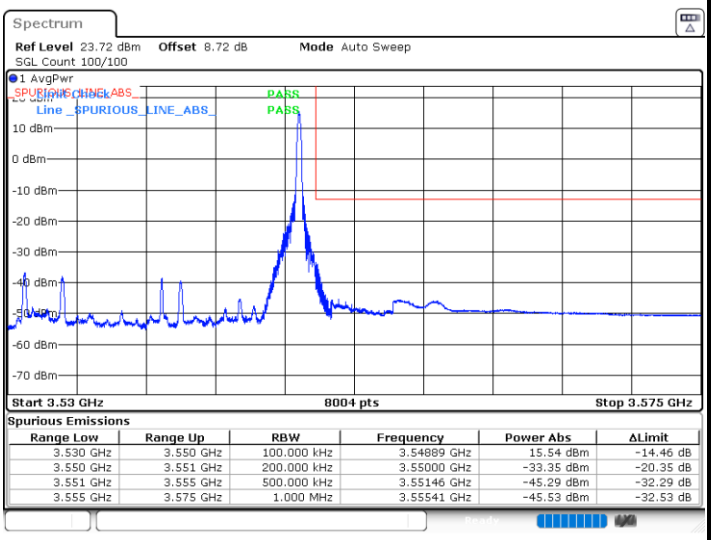


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44438 GHz	-45.12 dBm	-32.12 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44897 GHz	-45.62 dBm	-32.62 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44997 GHz	-33.45 dBm	-20.45 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45109 GHz	15.92 dBm	-14.08 dB

Date: 24.MAR.2025 18:00:58

Highest Band Edge / 1 RB

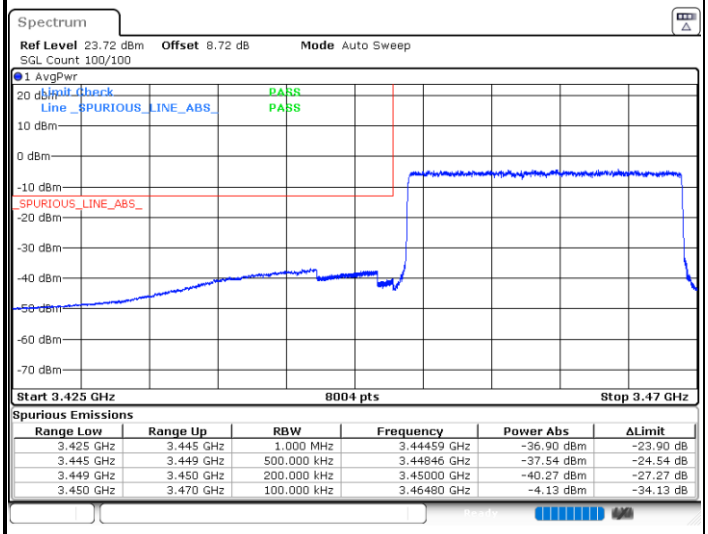


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54889 GHz	15.54 dBm	-14.46 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-33.35 dBm	-20.35 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55146 GHz	-45.29 dBm	-32.29 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55541 GHz	-45.53 dBm	-32.53 dB

Date: 24.MAR.2025 18:15:45

Lowest Band Edge / Full RB

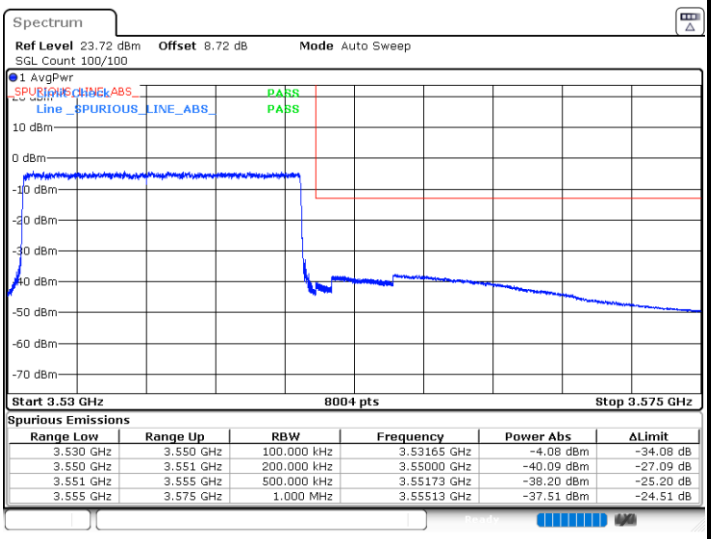


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44459 GHz	-36.90 dBm	-23.90 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44846 GHz	-37.54 dBm	-24.54 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.45000 GHz	-40.27 dBm	-27.27 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.46480 GHz	-4.13 dBm	-34.13 dB

Date: 24.MAR.2025 18:05:00

Highest Band Edge / Full RB



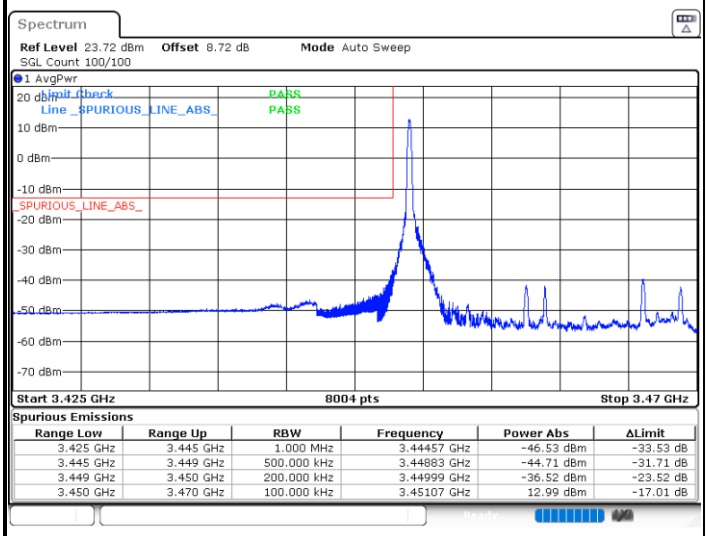
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.53165 GHz	-4.08 dBm	-34.08 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-40.09 dBm	-27.09 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55173 GHz	-38.20 dBm	-25.20 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55513 GHz	-37.51 dBm	-24.51 dB

Date: 24.MAR.2025 18:19:59

LTE Band 42 / 20MHz / 256QAM

Lowest Band Edge / 1 RB

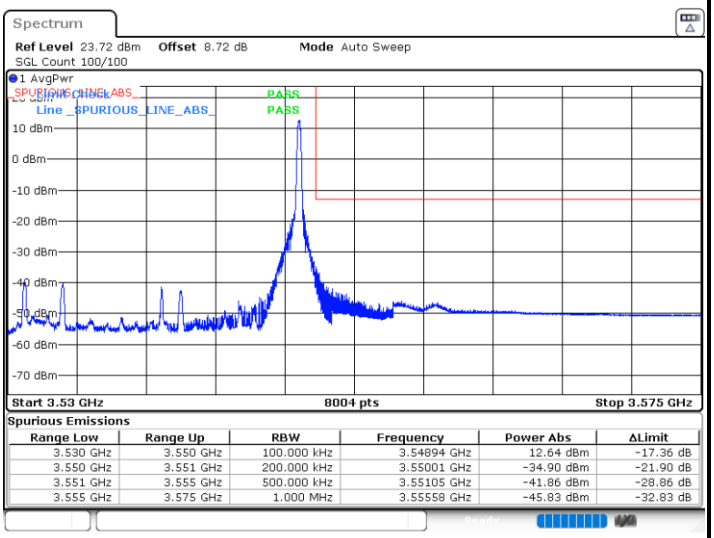


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44457 GHz	-46.53 dBm	-33.53 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44883 GHz	-44.71 dBm	-31.71 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44999 GHz	-36.52 dBm	-23.52 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45107 GHz	12.99 dBm	-17.01 dB

Date: 24.MAR.2025 18:01:58

Highest Band Edge / 1 RB

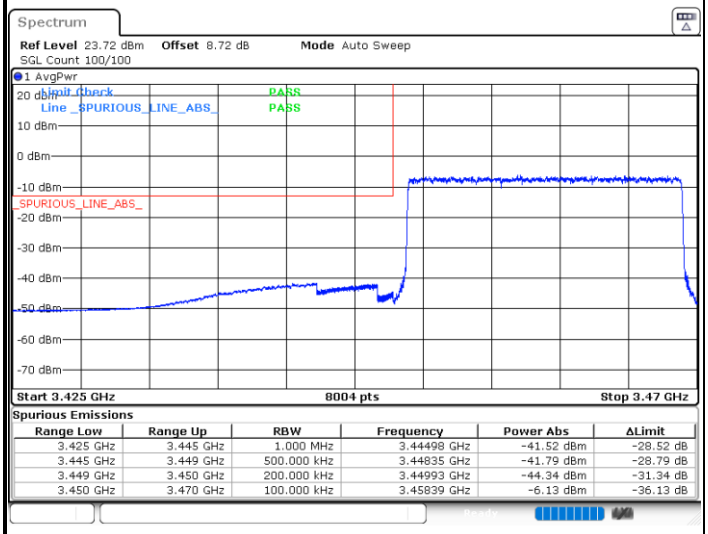


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54894 GHz	12.64 dBm	-17.36 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55001 GHz	-34.90 dBm	-21.90 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55105 GHz	-41.86 dBm	-28.86 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55558 GHz	-45.83 dBm	-32.83 dB

Date: 24.MAR.2025 18:16:49

Lowest Band Edge / Full RB

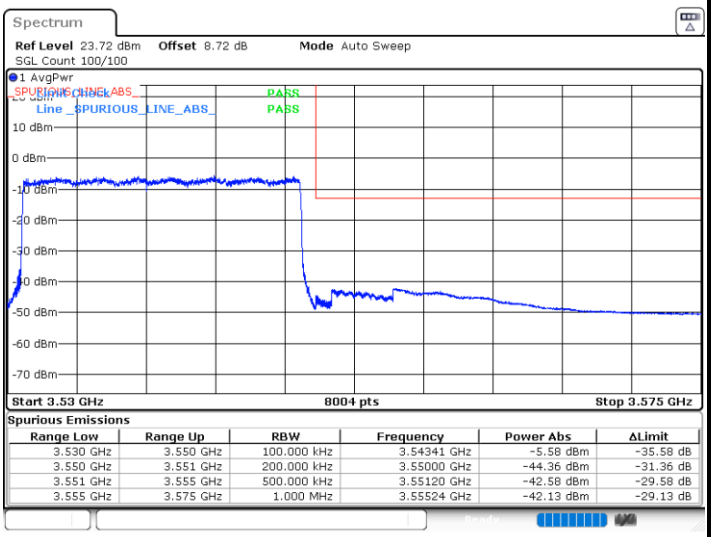


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.425 GHz	3.445 GHz	1.000 MHz	3.44498 GHz	-41.52 dBm	-28.52 dB
3.445 GHz	3.449 GHz	500.000 kHz	3.44835 GHz	-41.79 dBm	-28.79 dB
3.449 GHz	3.450 GHz	200.000 kHz	3.44993 GHz	-44.34 dBm	-31.34 dB
3.450 GHz	3.470 GHz	100.000 kHz	3.45839 GHz	-6.13 dBm	-36.13 dB

Date: 24.MAR.2025 18:06:00

Highest Band Edge / Full RB



Spurious Emissions

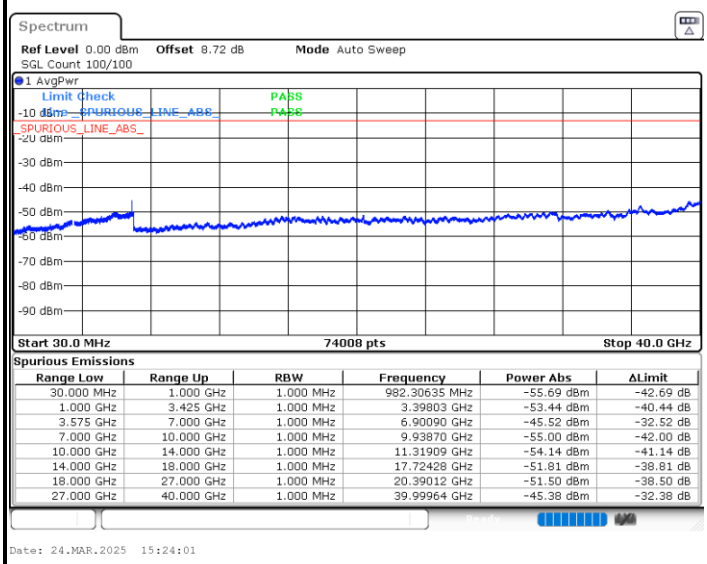
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
3.530 GHz	3.550 GHz	100.000 kHz	3.54341 GHz	-5.58 dBm	-35.58 dB
3.550 GHz	3.551 GHz	200.000 kHz	3.55000 GHz	-44.36 dBm	-31.36 dB
3.551 GHz	3.555 GHz	500.000 kHz	3.55120 GHz	-42.58 dBm	-29.58 dB
3.555 GHz	3.575 GHz	1.000 MHz	3.55524 GHz	-42.13 dBm	-29.13 dB

Date: 24.MAR.2025 18:21:02

Conducted Spurious Emission

LTE Band 42 / 5MHz

Lowest Channel / QPSK

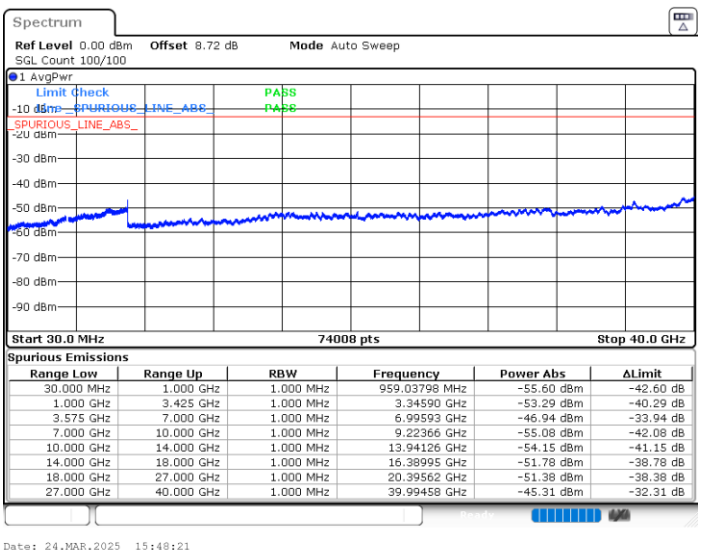


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	982.30635 MHz	-55.69 dBm	-42.69 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.39803 GHz	-53.44 dBm	-40.44 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90090 GHz	-45.52 dBm	-32.52 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.93870 GHz	-55.00 dBm	-42.00 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.31909 GHz	-54.14 dBm	-41.14 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.72428 GHz	-51.81 dBm	-38.81 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39012 GHz	-51.50 dBm	-38.50 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99964 GHz	-45.38 dBm	-32.38 dB

Date: 24.MAR.2025 15:24:01

Middle Channel / QPSK

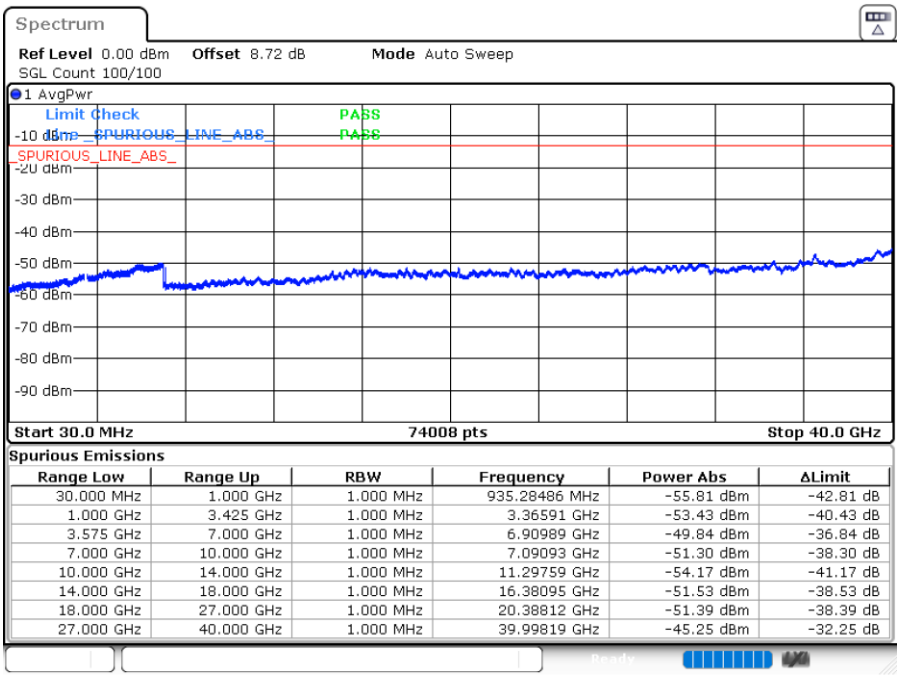


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	959.03798 MHz	-55.60 dBm	-42.60 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.34590 GHz	-53.29 dBm	-40.29 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99593 GHz	-46.94 dBm	-33.94 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.22366 GHz	-55.08 dBm	-42.08 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.94126 GHz	-54.15 dBm	-41.15 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.38995 GHz	-51.78 dBm	-38.78 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39562 GHz	-51.38 dBm	-38.38 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99458 GHz	-45.31 dBm	-32.31 dB

Date: 24.MAR.2025 15:48:21

Highest Channel / QPSK



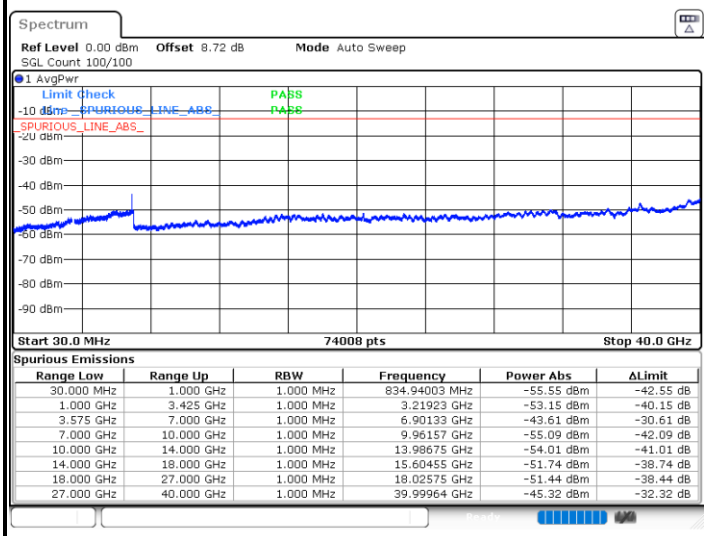
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	935.28486 MHz	-55.81 dBm	-42.81 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.36591 GHz	-53.43 dBm	-40.43 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90989 GHz	-49.84 dBm	-36.84 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.09093 GHz	-51.30 dBm	-38.30 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.29759 GHz	-54.17 dBm	-41.17 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.38095 GHz	-51.53 dBm	-38.53 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.38812 GHz	-51.39 dBm	-38.39 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99819 GHz	-45.25 dBm	-32.25 dB

Date: 24.MAR.2025 15:56:36

LTE Band 42 / 10MHz

Lowest Channel / QPSK

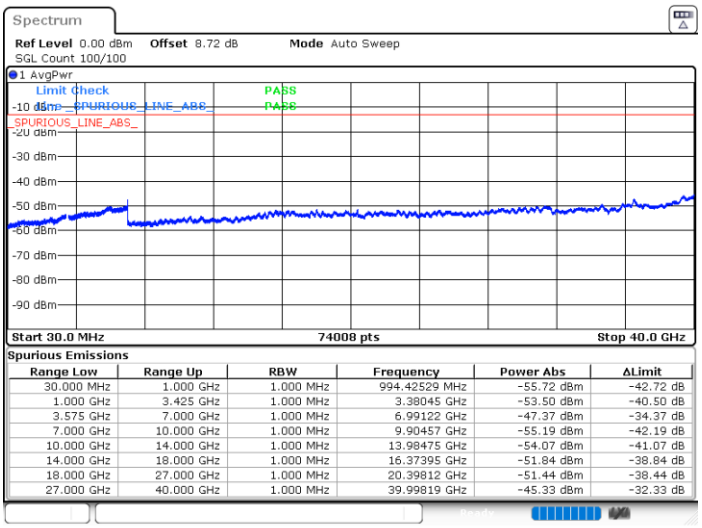


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	834.94003 MHz	-55.55 dBm	-42.55 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.21923 GHz	-53.15 dBm	-40.15 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90133 GHz	-43.61 dBm	-30.61 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96157 GHz	-55.09 dBm	-42.09 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98675 GHz	-54.01 dBm	-41.01 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.60455 GHz	-51.74 dBm	-38.74 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.02575 GHz	-51.44 dBm	-38.44 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99964 GHz	-45.32 dBm	-32.32 dB

Date: 24.MAR.2025 16:08:20

Middle Channel / QPSK

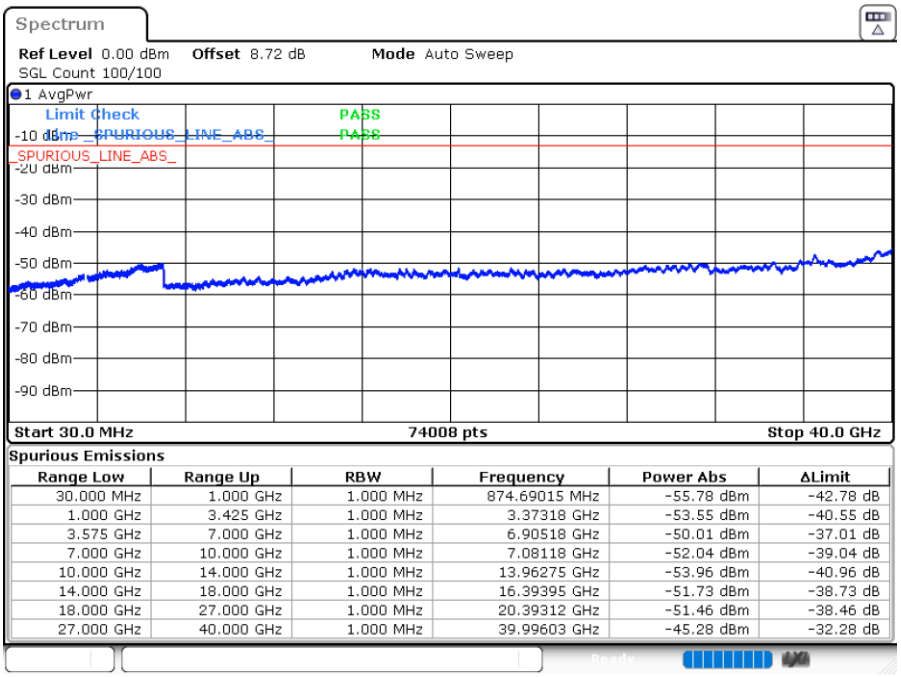


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.42529 MHz	-55.72 dBm	-42.72 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.38045 GHz	-53.50 dBm	-40.50 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.99122 GHz	-47.37 dBm	-34.37 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.90457 GHz	-55.19 dBm	-42.19 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98475 GHz	-54.07 dBm	-41.07 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.37395 GHz	-51.84 dBm	-38.84 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39812 GHz	-51.44 dBm	-38.44 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99819 GHz	-45.33 dBm	-32.33 dB

Date: 24.MAR.2025 16:20:07

Highest Channel / QPSK



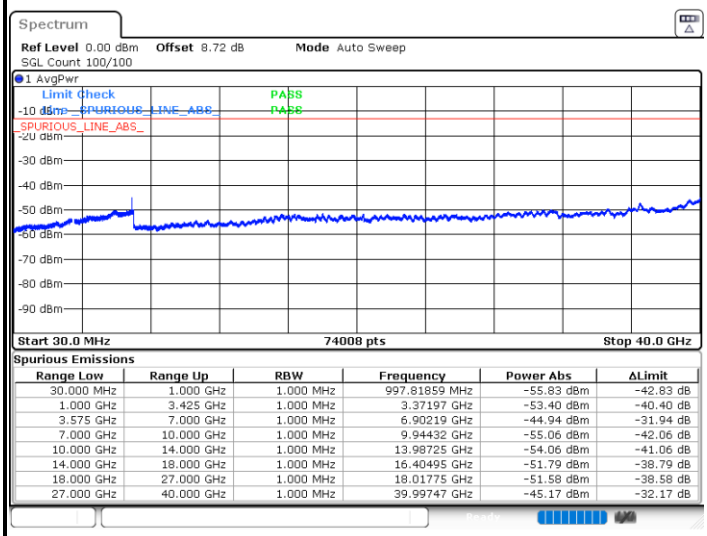
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	874.69015 MHz	-55.78 dBm	-42.78 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.37318 GHz	-53.55 dBm	-40.55 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90518 GHz	-50.01 dBm	-37.01 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.08118 GHz	-52.04 dBm	-39.04 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.96275 GHz	-53.96 dBm	-40.96 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.39395 GHz	-51.73 dBm	-38.73 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39312 GHz	-51.46 dBm	-38.46 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99603 GHz	-45.28 dBm	-32.28 dB

Date: 24.MAR.2025 16:25:32

LTE Band 42 / 15MHz

Lowest Channel / QPSK

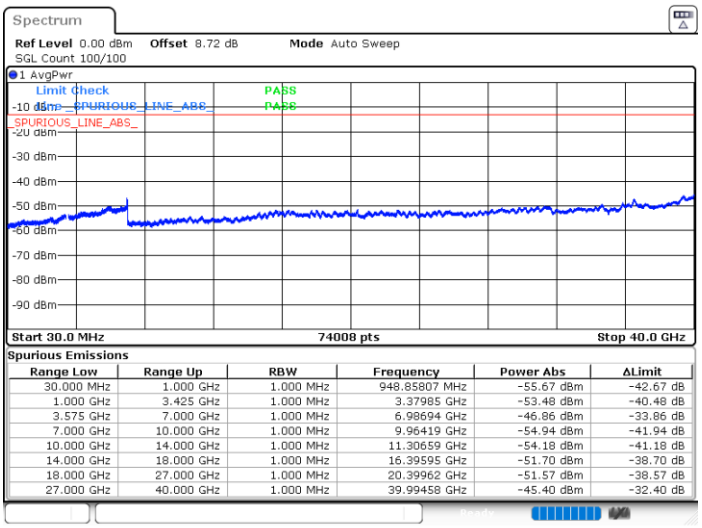


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	997.81859 MHz	-55.83 dBm	-42.83 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.37197 GHz	-53.40 dBm	-40.40 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90219 GHz	-44.94 dBm	-31.94 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.94432 GHz	-55.06 dBm	-42.06 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98725 GHz	-54.06 dBm	-41.06 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.40495 GHz	-51.79 dBm	-38.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.01775 GHz	-51.58 dBm	-38.58 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99747 GHz	-45.17 dBm	-32.17 dB

Date: 24.MAR.2025 16:36:35

Middle Channel / QPSK

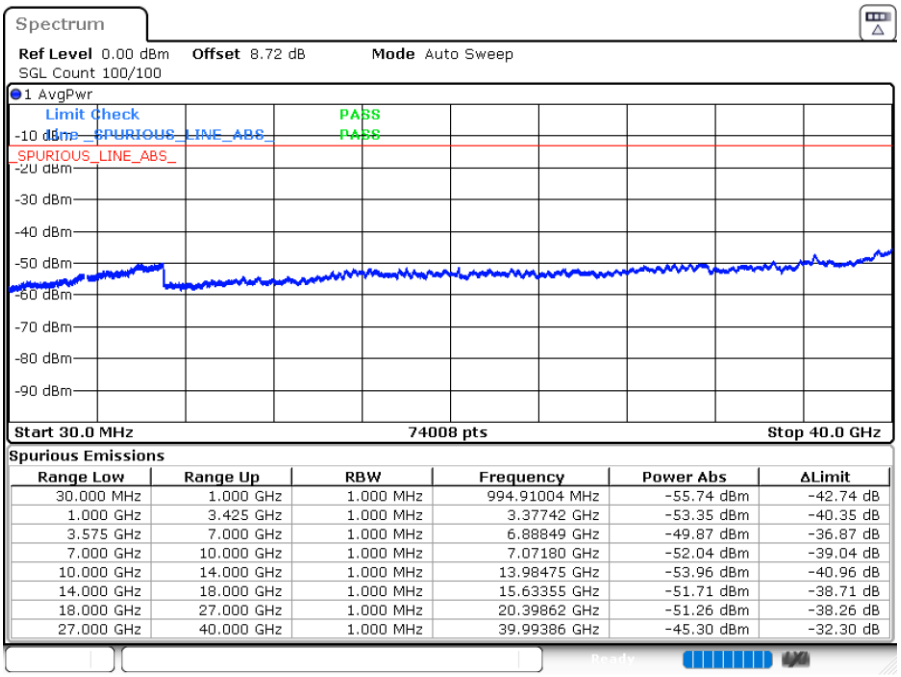


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	948.85807 MHz	-55.67 dBm	-42.67 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.37985 GHz	-53.48 dBm	-40.48 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.98694 GHz	-46.86 dBm	-33.86 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.96419 GHz	-54.94 dBm	-41.94 dB
10.000 GHz	14.000 GHz	1.000 MHz	11.30659 GHz	-54.18 dBm	-41.18 dB
14.000 GHz	18.000 GHz	1.000 MHz	16.39595 GHz	-51.70 dBm	-38.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39962 GHz	-51.57 dBm	-38.57 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99458 GHz	-45.40 dBm	-32.40 dB

Date: 24.MAR.2025 16:49:57

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	994.91004 MHz	-55.74 dBm	-42.74 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.37742 GHz	-53.35 dBm	-40.35 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.88849 GHz	-49.87 dBm	-36.87 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.07180 GHz	-52.04 dBm	-39.04 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98475 GHz	-53.96 dBm	-40.96 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.63355 GHz	-51.71 dBm	-38.71 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39862 GHz	-51.26 dBm	-38.26 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99386 GHz	-45.30 dBm	-32.30 dB

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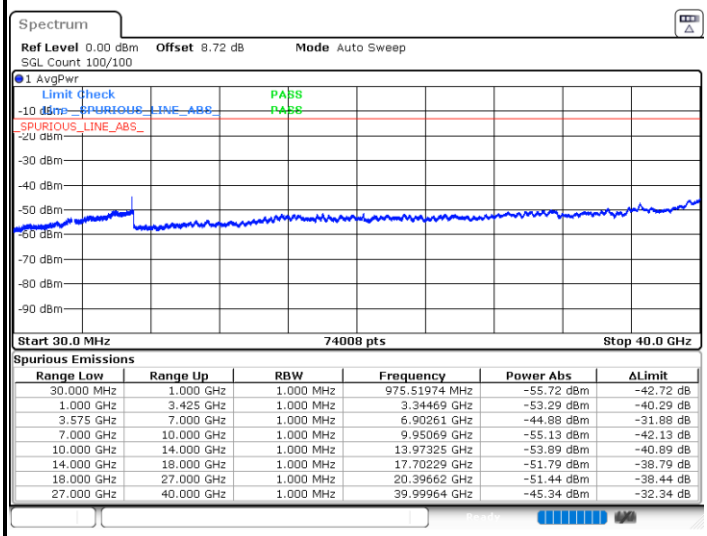
LTE Band 42 / 20MHz

Lowest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	975.51974 MHz	-55.72 dBm	-42.72 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.34469 GHz	-53.29 dBm	-40.29 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.90261 GHz	-44.88 dBm	-31.88 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.95069 GHz	-55.13 dBm	-42.13 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.97325 GHz	-53.89 dBm	-40.89 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.70229 GHz	-51.79 dBm	-38.79 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39662 GHz	-51.44 dBm	-38.44 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99964 GHz	-45.34 dBm	-32.34 dB

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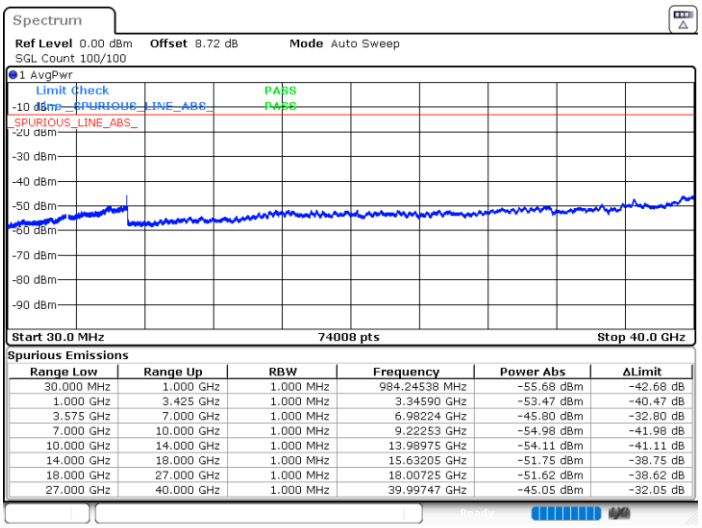
Middle Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	984.24538 MHz	-55.68 dBm	-42.68 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.34590 GHz	-53.47 dBm	-40.47 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.98224 GHz	-45.80 dBm	-32.80 dB
7.000 GHz	10.000 GHz	1.000 MHz	9.22253 GHz	-54.98 dBm	-41.98 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.98975 GHz	-54.11 dBm	-41.11 dB
14.000 GHz	18.000 GHz	1.000 MHz	15.63205 GHz	-51.75 dBm	-38.75 dB
18.000 GHz	27.000 GHz	1.000 MHz	18.00725 GHz	-51.62 dBm	-38.62 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99747 GHz	-45.05 dBm	-32.05 dB

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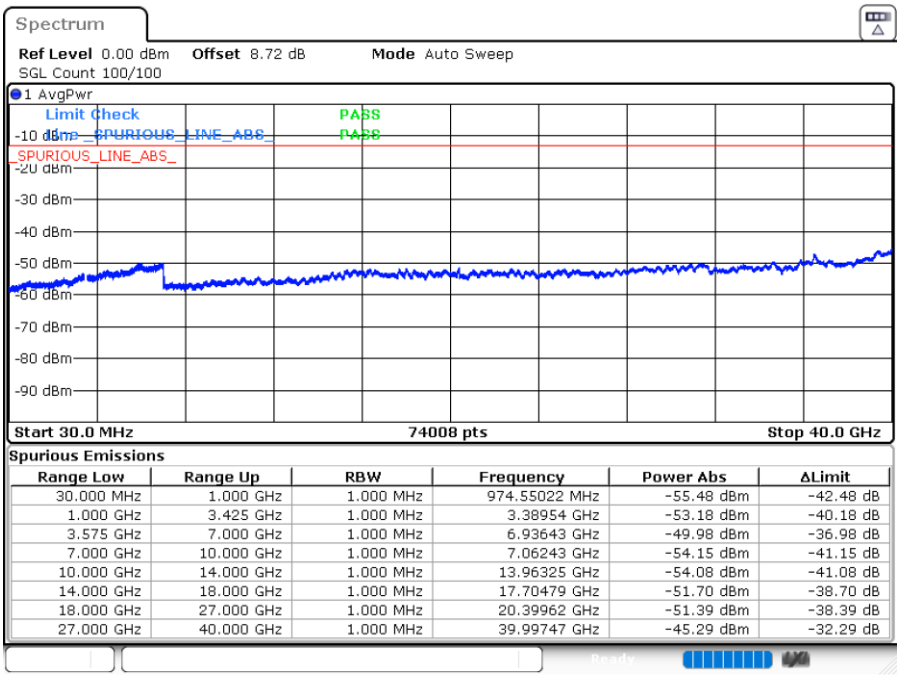
Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	974.55022 MHz	-55.48 dBm	-42.48 dB
1.000 GHz	3.425 GHz	1.000 MHz	3.38954 GHz	-53.18 dBm	-40.18 dB
3.575 GHz	7.000 GHz	1.000 MHz	6.93643 GHz	-49.98 dBm	-36.98 dB
7.000 GHz	10.000 GHz	1.000 MHz	7.06243 GHz	-54.15 dBm	-41.15 dB
10.000 GHz	14.000 GHz	1.000 MHz	13.96325 GHz	-54.08 dBm	-41.08 dB
14.000 GHz	18.000 GHz	1.000 MHz	17.70479 GHz	-51.70 dBm	-38.70 dB
18.000 GHz	27.000 GHz	1.000 MHz	20.39962 GHz	-51.39 dBm	-38.39 dB
27.000 GHz	40.000 GHz	1.000 MHz	39.99747 GHz	-45.29 dBm	-32.29 dB

Date: 24.MAR.2025 18:12:35

Frequency Stability

Test Conditions		LTE Band 42 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0021	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0018	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0013	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0026	

Note:

1. Normal Voltage =3.81 V.；Battery End Point (BEP) =3.4 V.；Maximum Voltage =4.5 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	LiangPingZhou	Temperature :	22~25℃
		Relative Humidity :	48~52%

LTE Band 42 / 20MHz / QPSK / Ant. 5									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6982.00	-51.78	-13	-38.78	-56.71	-55.08	8.30	11.60	H
	10473.00	-55.61	-13	-42.61	-67.58	-57.13	10.48	12.00	H
	13964.00	-51.54	-13	-38.54	-67.07	-53.24	11.80	13.50	H
	6982.00	-54.10	-13	-41.10	-59.49	-57.40	8.30	11.60	V
	10473.00	-56.98	-13	-43.98	-68.34	-58.50	10.48	12.00	V
	13964.00	-51.15	-13	-38.15	-66.29	-52.85	11.80	13.50	V

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