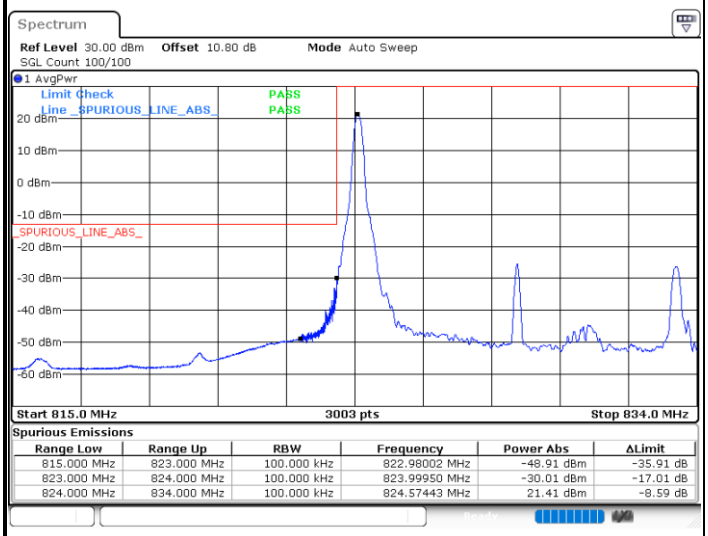
LTE Band 5 / 10MHz / QPSK

Lowest Band Edge / 1 RB

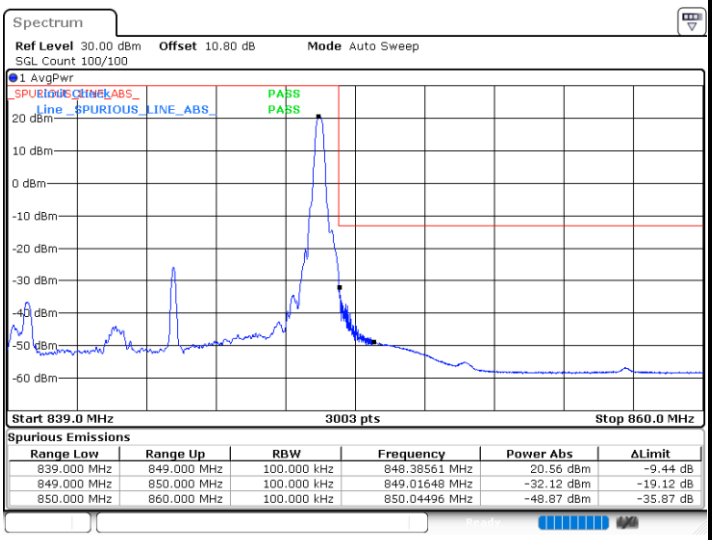


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.98002 MHz	-48.91 dBm	-35.91 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99950 MHz	-30.01 dBm	-17.01 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.57443 MHz	21.41 dBm	-8.59 dB

Date: 30.OCT.2021 06:33:44

Highest Band Edge / 1 RB

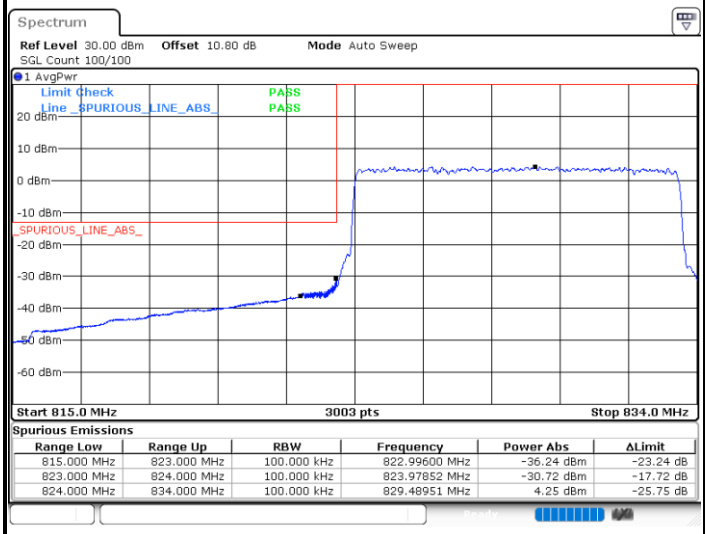


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.38561 MHz	20.56 dBm	-9.44 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.01648 MHz	-32.12 dBm	-19.12 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.04496 MHz	-48.87 dBm	-35.87 dB

Date: 30.OCT.2021 06:42:21

Lowest Band Edge / Full RB

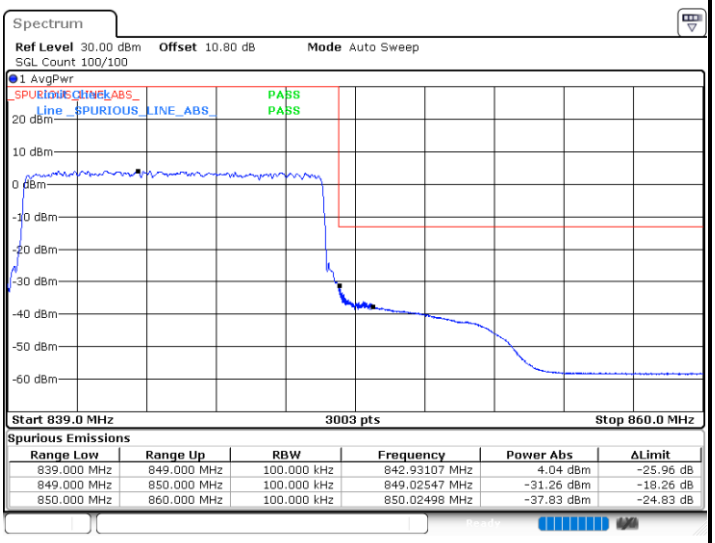


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.99600 MHz	-36.24 dBm	-23.24 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.97852 MHz	-30.72 dBm	-17.72 dB
824.000 MHz	834.000 MHz	100.000 kHz	829.48951 MHz	4.25 dBm	-25.75 dB

Date: 30.OCT.2021 06:37:26

Highest Band Edge / Full RB



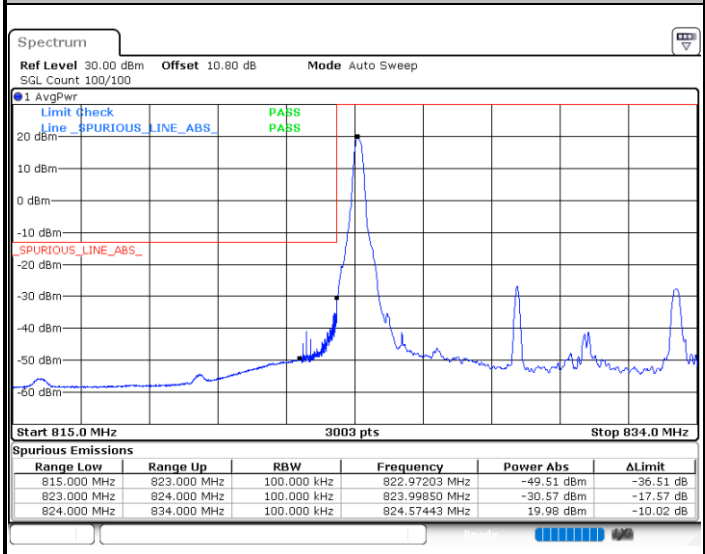
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	842.93107 MHz	4.04 dBm	-25.96 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.02547 MHz	-31.26 dBm	-18.26 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.02498 MHz	-37.83 dBm	-24.83 dB

Date: 30.OCT.2021 06:46:03

LTE Band 5 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

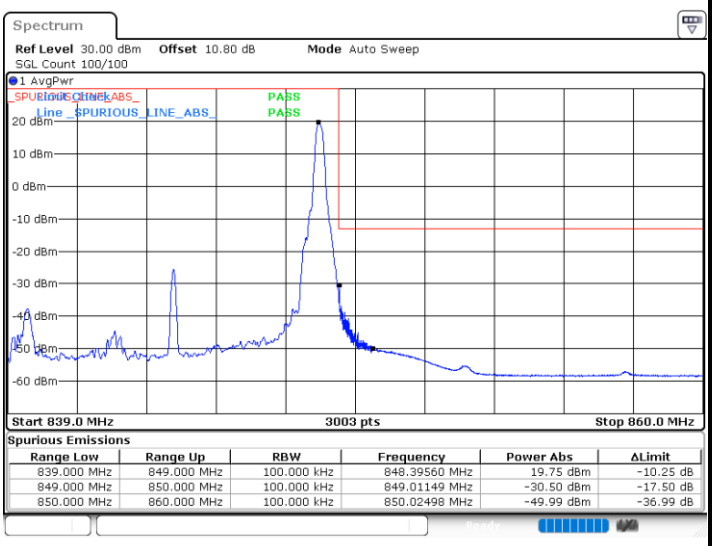


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
815.000 MHz	823.000 MHz	100.000 kHz	822.97203 MHz	-49.51 dBm	-36.51 dB
823.000 MHz	824.000 MHz	100.000 kHz	823.99850 MHz	-30.57 dBm	-17.57 dB
824.000 MHz	834.000 MHz	100.000 kHz	824.57443 MHz	19.98 dBm	-10.02 dB

Date: 30.OCT.2021 06:35:35

Highest Band Edge / 1 RB



Spurious Emissions

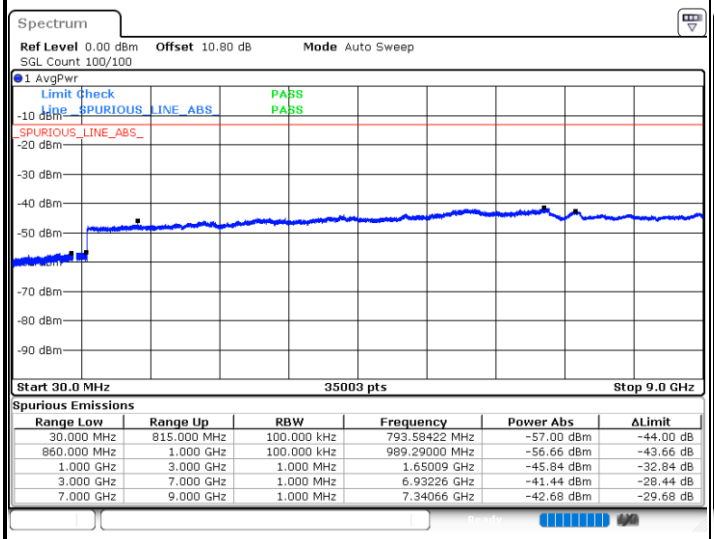
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
839.000 MHz	849.000 MHz	100.000 kHz	848.39560 MHz	19.75 dBm	-10.25 dB
849.000 MHz	850.000 MHz	100.000 kHz	849.01149 MHz	-30.50 dBm	-17.50 dB
850.000 MHz	860.000 MHz	100.000 kHz	850.02498 MHz	-49.99 dBm	-36.99 dB

Date: 30.OCT.2021 06:44:12

Conducted Spurious Emission

LTE Band 5 / 1.4MHz

Lowest Channel / QPSK

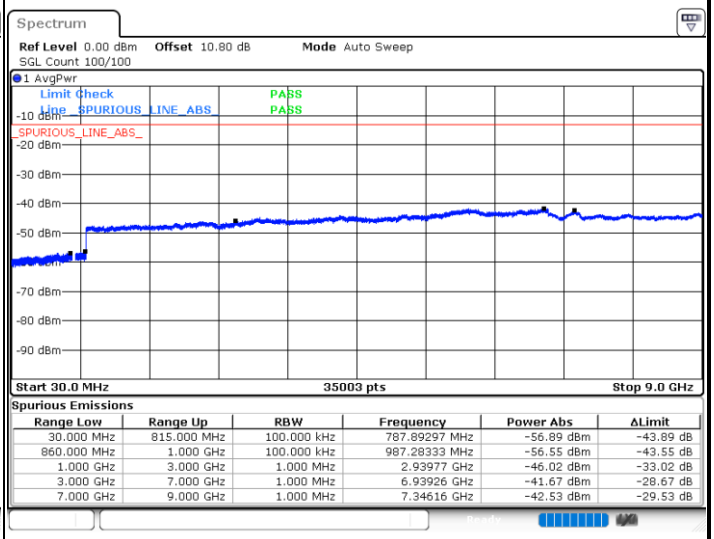


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	793.58422 MHz	-57.00 dBm	-44.00 dB
860.000 MHz	1.000 GHz	100.000 kHz	989.29000 MHz	-56.66 dBm	-43.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.65009 GHz	-45.84 dBm	-32.84 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93226 GHz	-41.44 dBm	-28.44 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34066 GHz	-42.68 dBm	-29.68 dB

Date: 30.OCT.2021 05:41:11

Middle Channel / QPSK

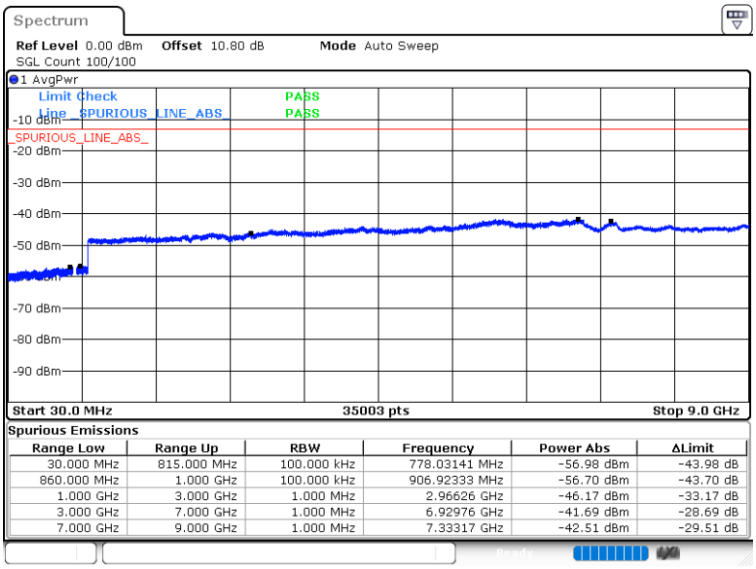


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	787.89297 MHz	-56.89 dBm	-43.89 dB
860.000 MHz	1.000 GHz	100.000 kHz	987.28333 MHz	-56.55 dBm	-43.55 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.93977 GHz	-46.02 dBm	-33.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93926 GHz	-41.67 dBm	-28.67 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34616 GHz	-42.53 dBm	-29.53 dB

Date: 30.OCT.2021 05:43:46

Highest Channel / QPSK



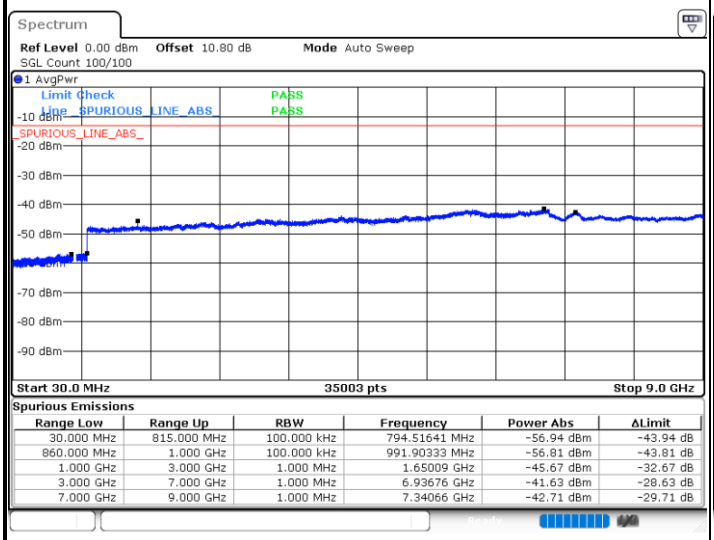
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	778.03141 MHz	-56.98 dBm	-43.98 dB
860.000 MHz	1.000 GHz	100.000 kHz	906.92333 MHz	-56.70 dBm	-43.70 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.96626 GHz	-46.17 dBm	-33.17 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92976 GHz	-41.69 dBm	-28.69 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33317 GHz	-42.51 dBm	-29.51 dB

Date: 30.OCT.2021 05:52:21

LTE Band 5 / 3MHz

Lowest Channel / QPSK

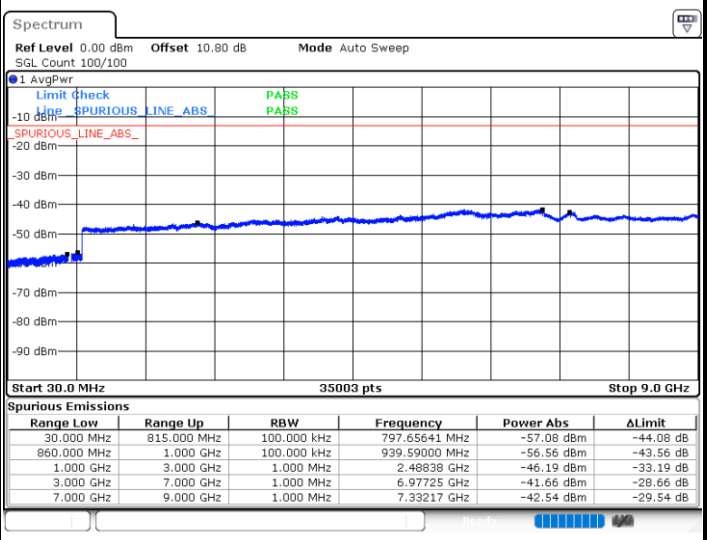


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	794.51641 MHz	-56.94 dBm	-43.94 dB
860.000 MHz	1.000 GHz	100.000 kHz	991.90333 MHz	-56.81 dBm	-43.81 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.65009 GHz	-45.67 dBm	-32.67 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.93676 GHz	-41.63 dBm	-28.63 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34066 GHz	-42.71 dBm	-29.71 dB

Date: 30.OCT.2021 06:00:58

Middle Channel / QPSK

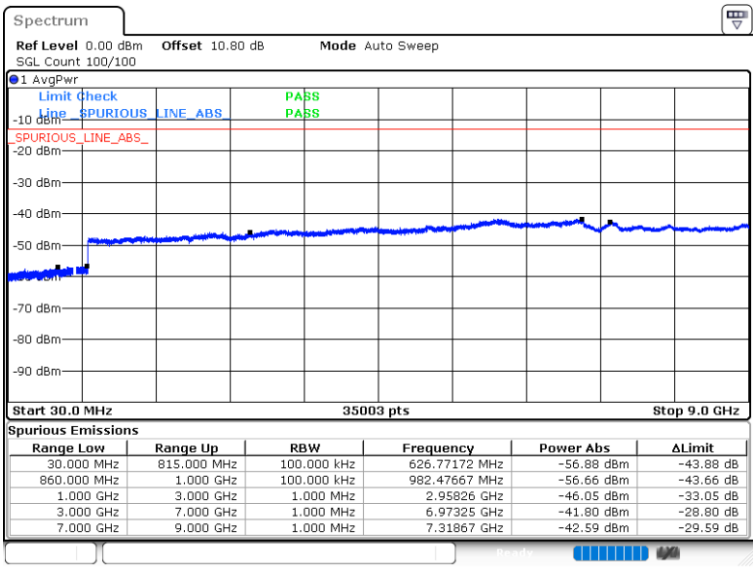


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	797.65641 MHz	-57.08 dBm	-44.08 dB
860.000 MHz	1.000 GHz	100.000 kHz	939.59000 MHz	-56.56 dBm	-43.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.48838 GHz	-46.19 dBm	-33.19 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97725 GHz	-41.66 dBm	-28.66 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33217 GHz	-42.54 dBm	-29.54 dB

Date: 30.OCT.2021 06:03:33

Highest Channel / QPSK



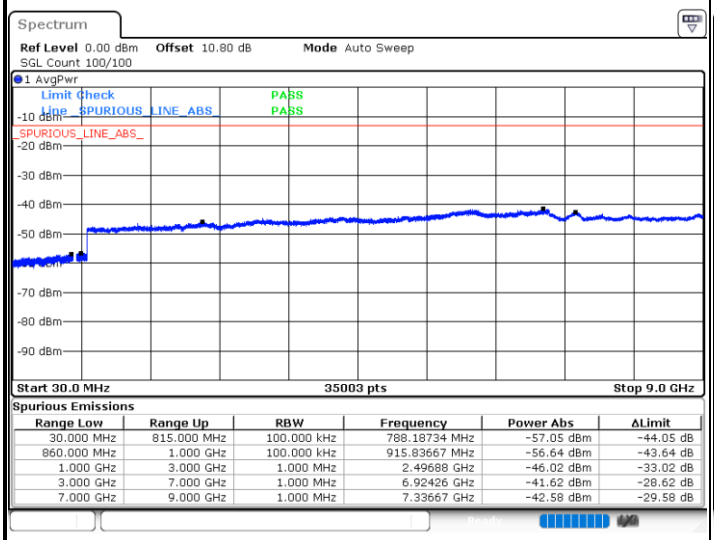
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	626.77172 MHz	-56.88 dBm	-43.88 dB
860.000 MHz	1.000 GHz	100.000 kHz	982.47667 MHz	-56.66 dBm	-43.66 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.95826 GHz	-46.05 dBm	-33.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.97325 GHz	-41.80 dBm	-28.80 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.31867 GHz	-42.59 dBm	-29.59 dB

Date: 30.OCT.2021 06:12:08

LTE Band 5 / 5MHz

Lowest Channel / QPSK

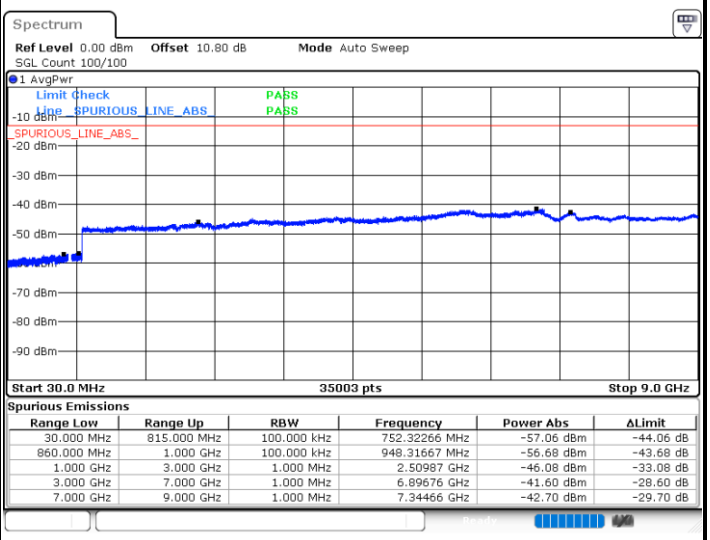


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	788.18734 MHz	-57.05 dBm	-44.05 dB
860.000 MHz	1.000 GHz	100.000 kHz	915.83667 MHz	-56.64 dBm	-43.64 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.49688 GHz	-46.02 dBm	-33.02 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92426 GHz	-41.62 dBm	-28.62 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33667 GHz	-42.58 dBm	-29.58 dB

Date: 30.OCT.2021 06:20:43

Middle Channel / QPSK

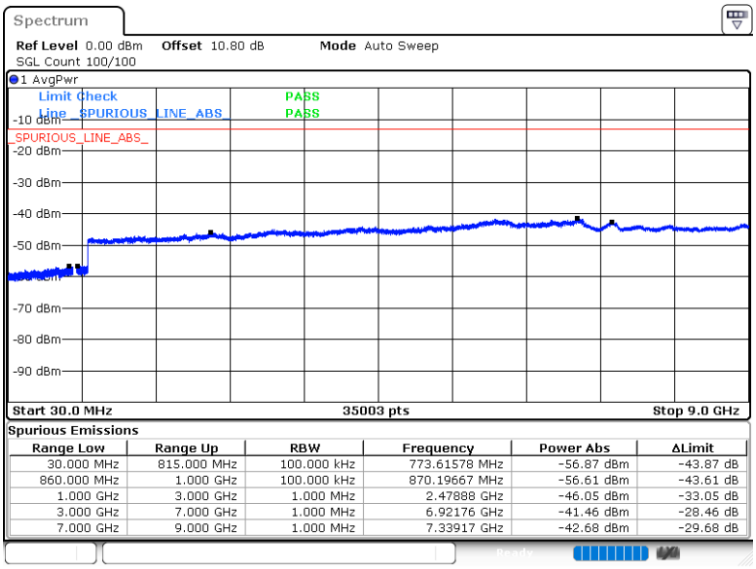


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	752.32266 MHz	-57.06 dBm	-44.06 dB
860.000 MHz	1.000 GHz	100.000 kHz	948.31667 MHz	-56.68 dBm	-43.68 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50987 GHz	-46.08 dBm	-33.08 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.89676 GHz	-41.60 dBm	-28.60 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34466 GHz	-42.70 dBm	-29.70 dB

Date: 30.OCT.2021 06:23:18

Highest Channel / QPSK



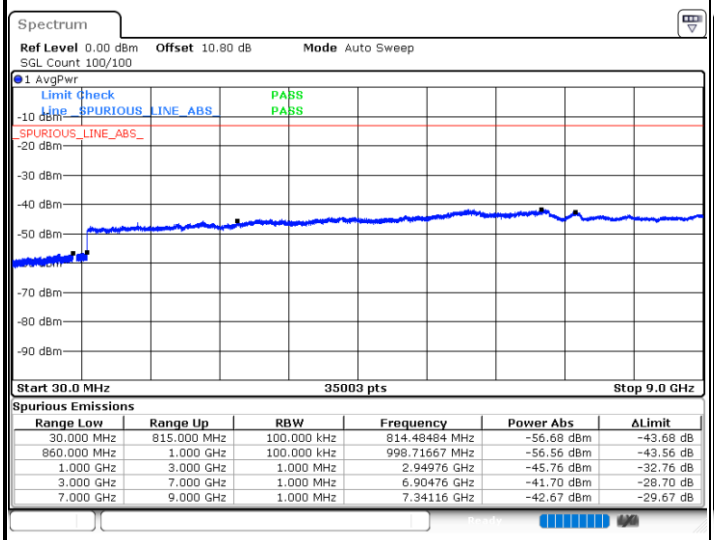
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	773.61578 MHz	-56.87 dBm	-43.87 dB
860.000 MHz	1.000 GHz	100.000 kHz	870.19667 MHz	-56.61 dBm	-43.61 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.47888 GHz	-46.05 dBm	-33.05 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92176 GHz	-41.46 dBm	-28.46 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33917 GHz	-42.68 dBm	-29.68 dB

Date: 30.OCT.2021 06:31:51

LTE Band 5 / 10MHz

Lowest Channel / QPSK

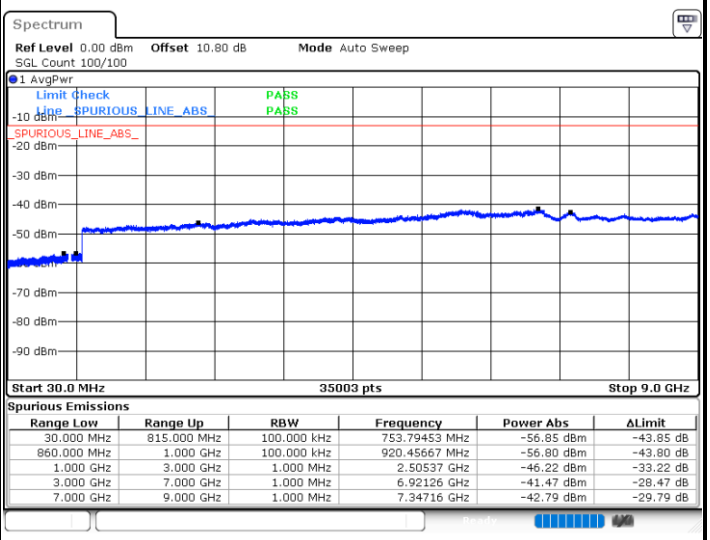


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	814.48484 MHz	-56.68 dBm	-43.68 dB
860.000 MHz	1.000 GHz	100.000 kHz	998.71667 MHz	-56.56 dBm	-43.56 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.94976 GHz	-45.76 dBm	-32.76 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.90476 GHz	-41.70 dBm	-28.70 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34116 GHz	-42.67 dBm	-29.67 dB

Date: 30.OCT.2021 06:38:36

Middle Channel / QPSK

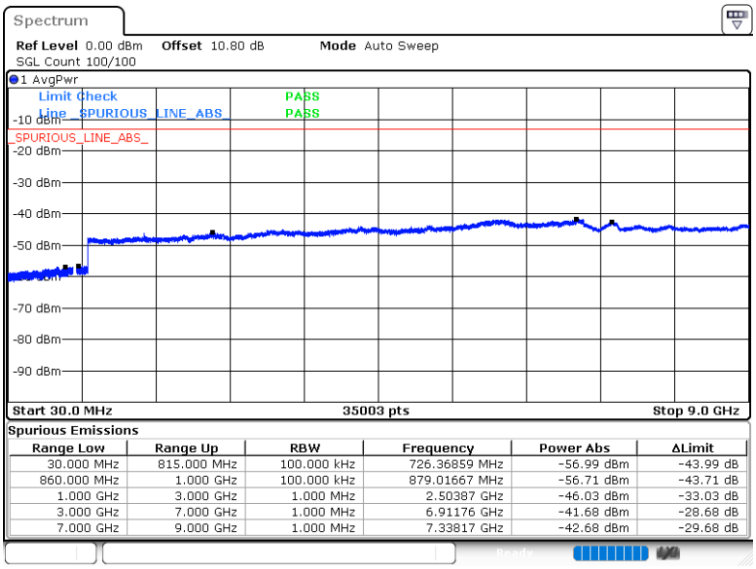


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	753.79453 MHz	-56.85 dBm	-43.85 dB
860.000 MHz	1.000 GHz	100.000 kHz	920.45667 MHz	-56.80 dBm	-43.80 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50537 GHz	-46.22 dBm	-33.22 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.92126 GHz	-41.47 dBm	-28.47 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.34716 GHz	-42.79 dBm	-29.79 dB

Date: 30.OCT.2021 06:40:30

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	815.000 MHz	100.000 kHz	726.36859 MHz	-56.99 dBm	-43.99 dB
860.000 MHz	1.000 GHz	100.000 kHz	879.01667 MHz	-56.71 dBm	-43.71 dB
1.000 GHz	3.000 GHz	1.000 MHz	2.50387 GHz	-46.03 dBm	-33.03 dB
3.000 GHz	7.000 GHz	1.000 MHz	6.91176 GHz	-41.68 dBm	-28.68 dB
7.000 GHz	9.000 GHz	1.000 MHz	7.33817 GHz	-42.68 dBm	-29.68 dB

Date: 30.OCT.2021 06:47:13

Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0115	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0154	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0085	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0118	
-20	Normal Voltage	0.0088	
-30	Normal Voltage	0.0066	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0030	

Note:

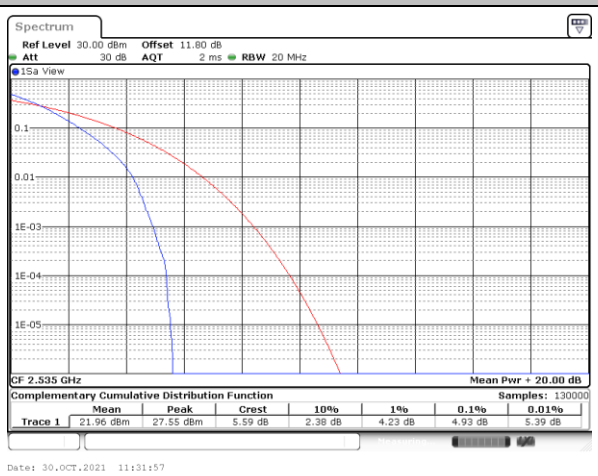
1. Normal Voltage =12.00 V.；Battery End Point (BEP) =8.00 V.；Maximum Voltage =40.00 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	4.93	PASS

LTE Band 7 / 20MHz / QPSK
Middle Channel / Full RB

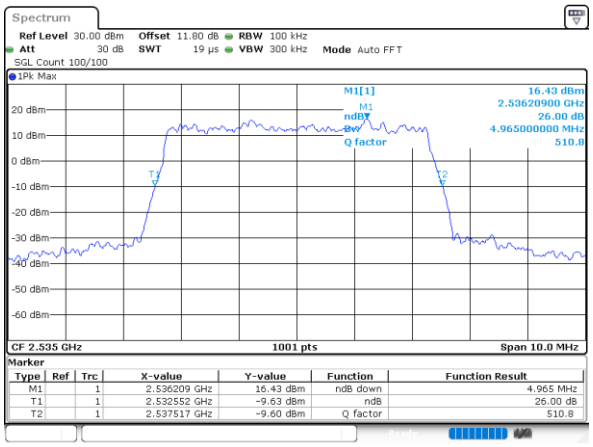


26dB Bandwidth

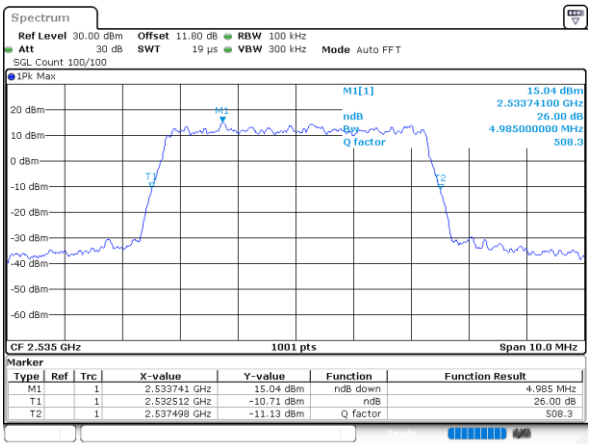
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.97	4.99	9.69	-	14.45	-	18.82	-
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-

LTE Band 7

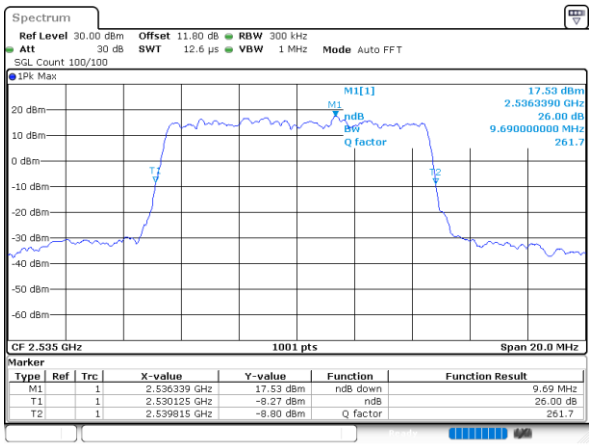
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



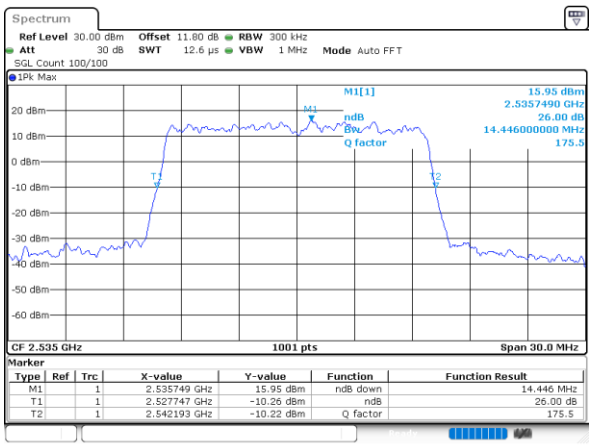
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

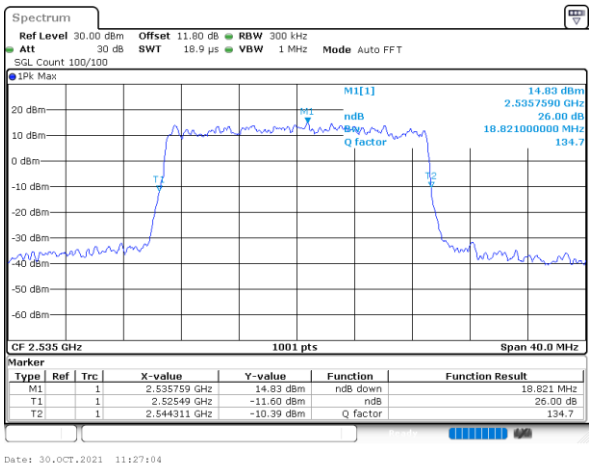
N/A

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

N/A

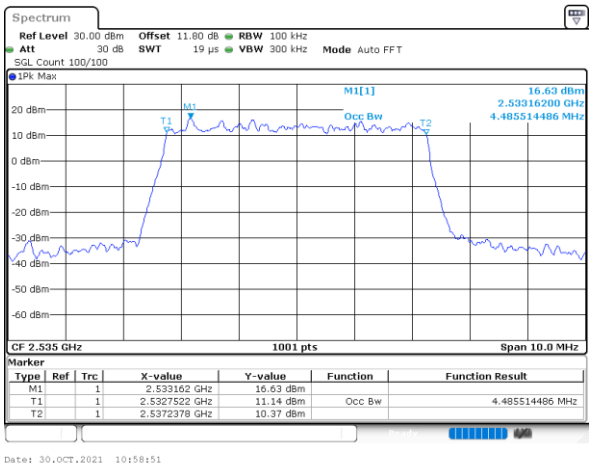
LTE Band 7	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	**N/A**

Occupied Bandwidth

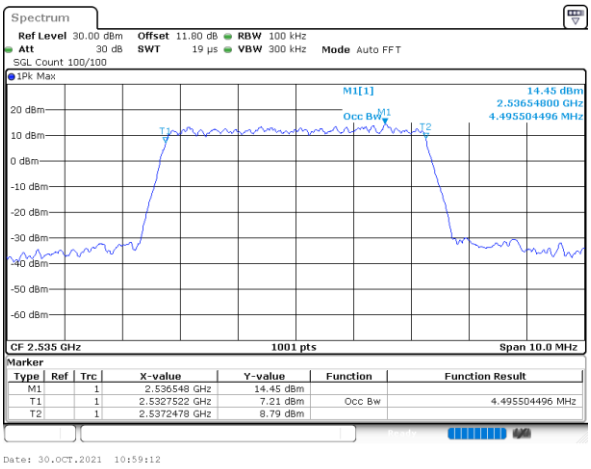
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.49	4.50	9.01	-	13.37	-	17.82	-
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-

LTE Band 7

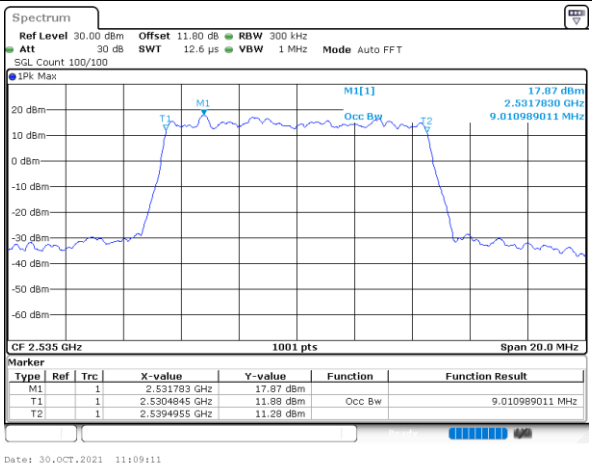
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



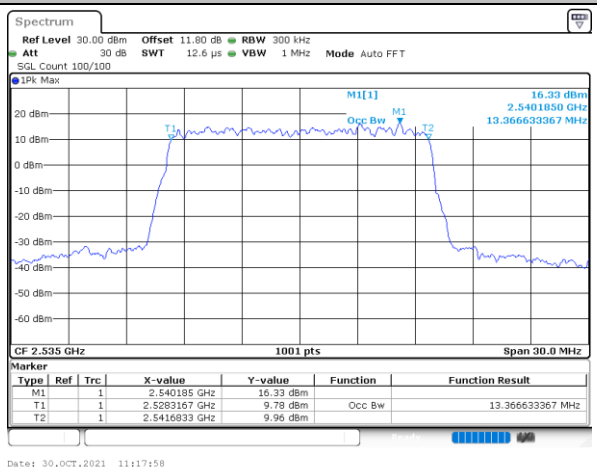
Middle Channel / 10MHz / QPSK



Middle Channel / 10MHz / 16QAM

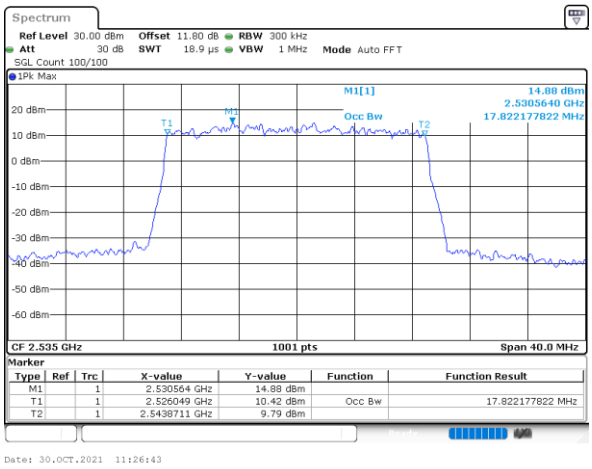
N/A

Middle Channel / 15MHz / QPSK



Middle Channel / 15MHz / 16QAM

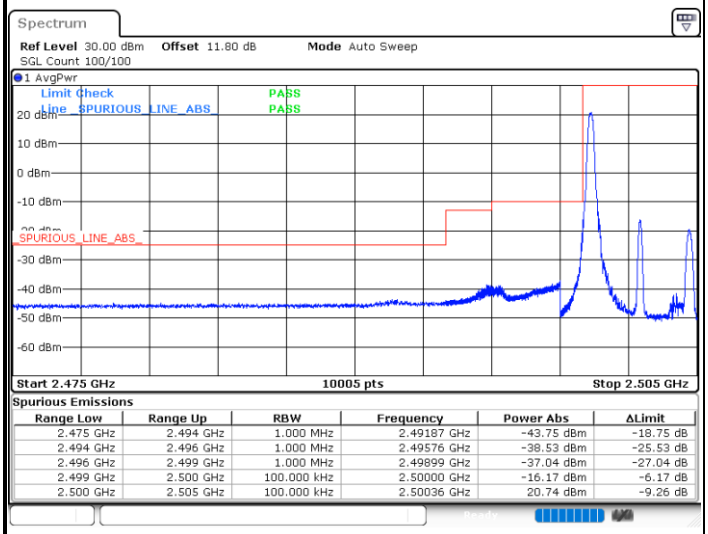
N/A

LTE Band 7	
Middle Channel / 20MHz / QPSK	**Middle Channel / 20MHz / 16QAM**
	**N/A**

Conducted Band Edge

LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB

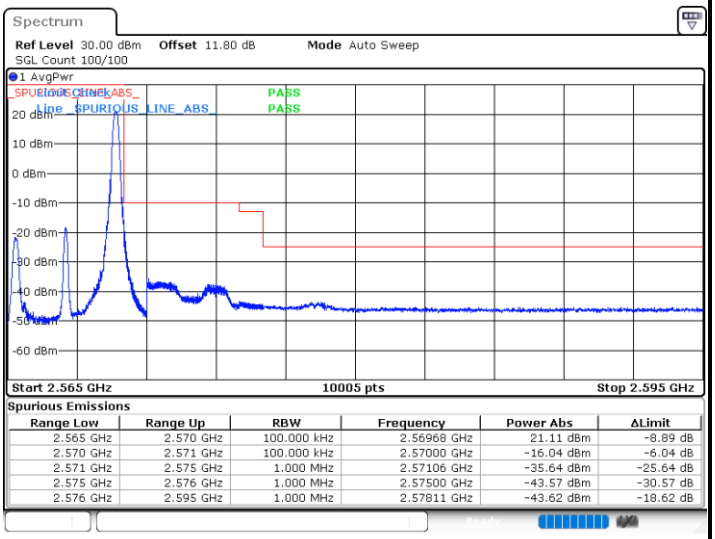


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49187 GHz	-43.75 dBm	-18.75 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49576 GHz	-38.53 dBm	-25.53 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-37.04 dBm	-27.04 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-16.17 dBm	-6.17 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50036 GHz	20.74 dBm	-9.26 dB

Date: 30.OCT.2021 10:54:54

Highest Band Edge / 1 RB

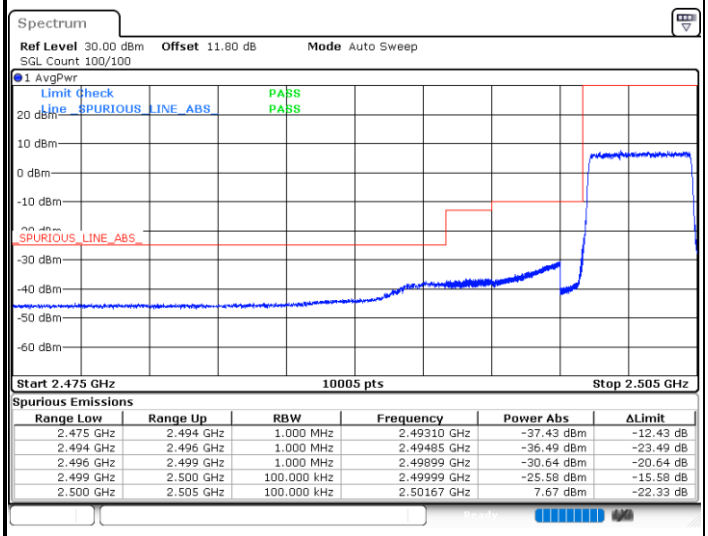


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56968 GHz	21.11 dBm	-8.89 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-16.04 dBm	-6.04 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-35.64 dBm	-25.64 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57500 GHz	-43.57 dBm	-30.57 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57811 GHz	-43.62 dBm	-18.62 dB

Date: 30.OCT.2021 11:01:44

Lowest Band Edge / Full RB

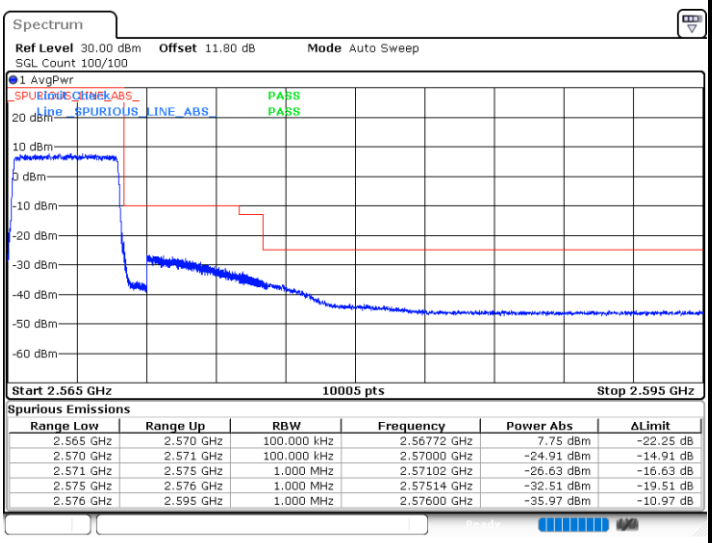


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49310 GHz	-37.43 dBm	-12.43 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49485 GHz	-36.49 dBm	-23.49 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-30.64 dBm	-20.64 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-25.58 dBm	-15.58 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50167 GHz	7.67 dBm	-22.33 dB

Date: 30.OCT.2021 10:56:38

Highest Band Edge / Full RB



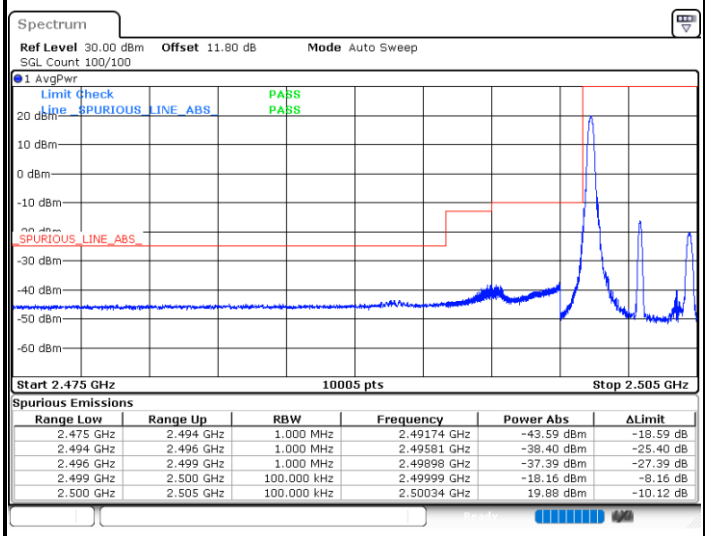
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56772 GHz	7.75 dBm	-22.25 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-24.91 dBm	-14.91 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57102 GHz	-26.63 dBm	-16.63 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57514 GHz	-32.51 dBm	-19.51 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57600 GHz	-35.97 dBm	-10.97 dB

Date: 30.OCT.2021 11:03:26

LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB

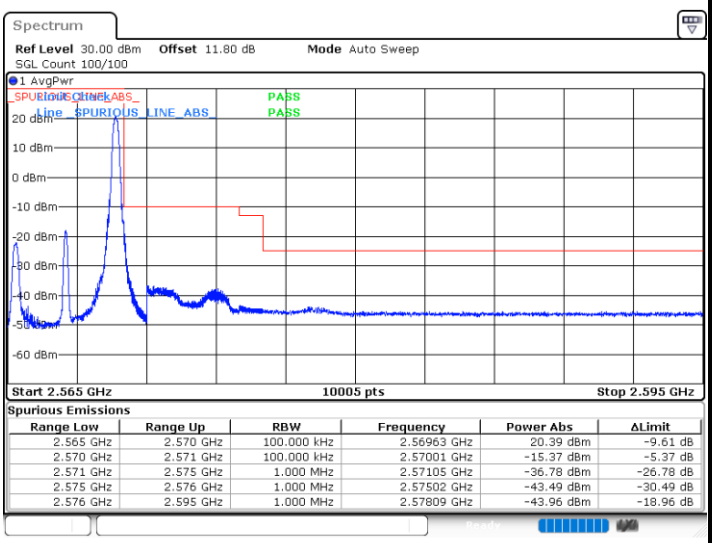


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49174 GHz	-43.59 dBm	-18.59 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49581 GHz	-38.40 dBm	-25.40 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-37.39 dBm	-27.39 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.49999 GHz	-18.16 dBm	-8.16 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50034 GHz	19.88 dBm	-10.12 dB

Date: 30.OCT.2021 10:55:46

Highest Band Edge / 1 RB

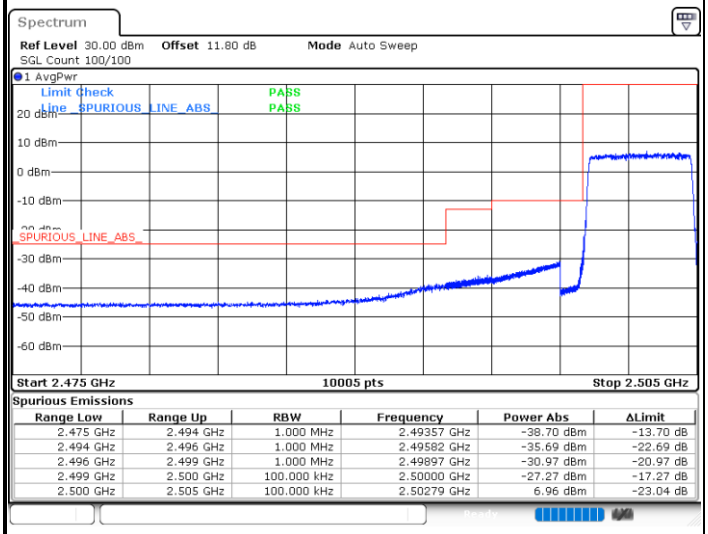


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56963 GHz	20.39 dBm	-9.61 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57001 GHz	-15.37 dBm	-5.37 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-36.78 dBm	-26.78 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57502 GHz	-43.49 dBm	-30.49 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57809 GHz	-43.96 dBm	-18.96 dB

Date: 30.OCT.2021 11:02:35

Lowest Band Edge / Full RB

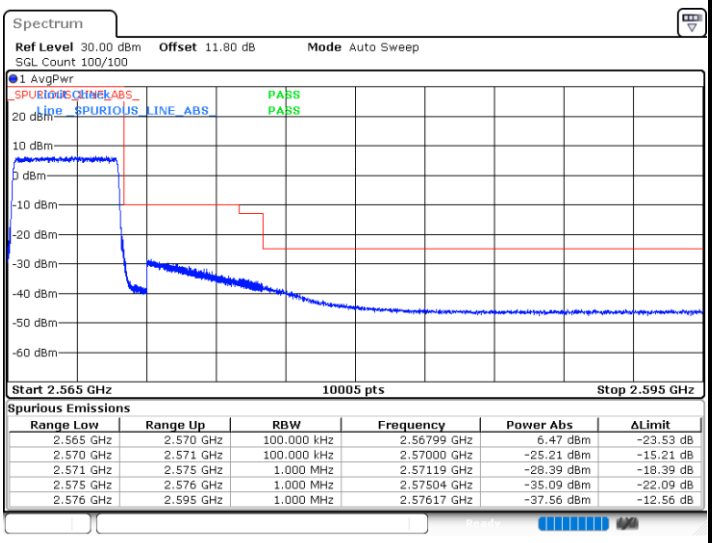


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.494 GHz	1.000 MHz	2.49357 GHz	-38.70 dBm	-13.70 dB
2.494 GHz	2.496 GHz	1.000 MHz	2.49582 GHz	-35.69 dBm	-22.69 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49897 GHz	-30.97 dBm	-20.97 dB
2.499 GHz	2.500 GHz	100.000 kHz	2.50000 GHz	-27.27 dBm	-17.27 dB
2.500 GHz	2.505 GHz	100.000 kHz	2.50279 GHz	6.96 dBm	-23.04 dB

Date: 30.OCT.2021 10:57:29

Highest Band Edge / Full RB



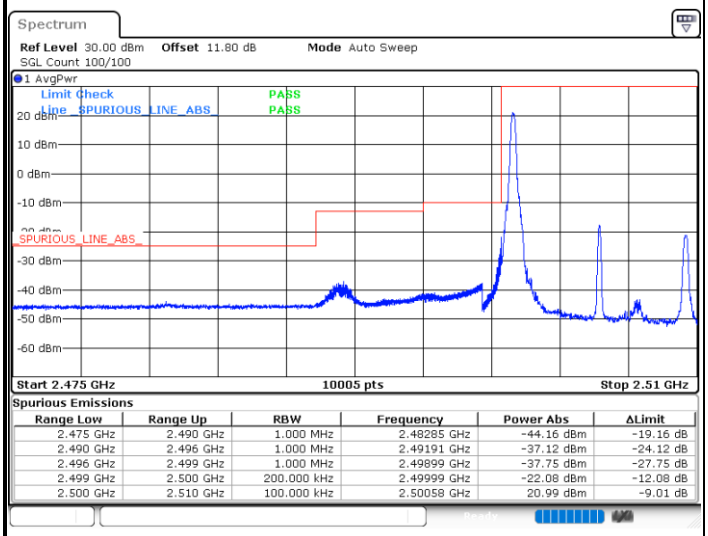
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.565 GHz	2.570 GHz	100.000 kHz	2.56799 GHz	6.47 dBm	-23.53 dB
2.570 GHz	2.571 GHz	100.000 kHz	2.57000 GHz	-25.21 dBm	-15.21 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57119 GHz	-28.39 dBm	-18.39 dB
2.575 GHz	2.576 GHz	1.000 MHz	2.57504 GHz	-35.09 dBm	-22.09 dB
2.576 GHz	2.595 GHz	1.000 MHz	2.57617 GHz	-37.56 dBm	-12.56 dB

Date: 30.OCT.2021 11:04:16

LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB

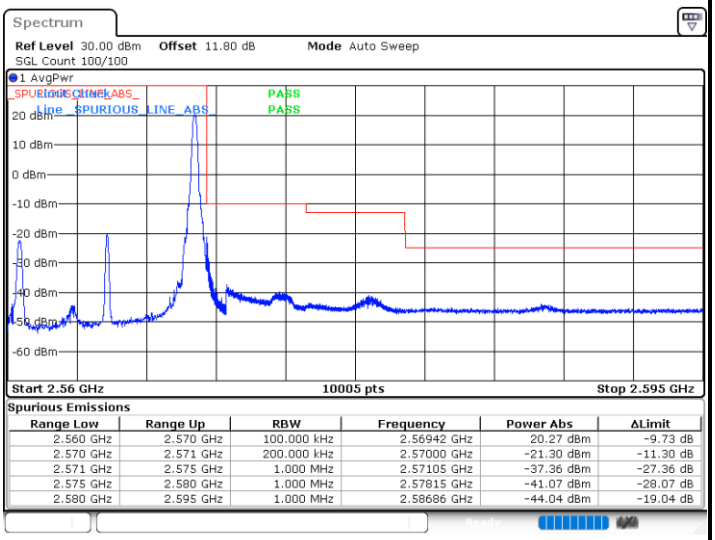


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48285 GHz	-44.16 dBm	-19.16 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49191 GHz	-37.12 dBm	-24.12 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-37.75 dBm	-27.75 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-22.08 dBm	-12.08 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50058 GHz	20.99 dBm	-9.01 dB

Date: 30.OCT.2021 11:06:08

Highest Band Edge / 1 RB

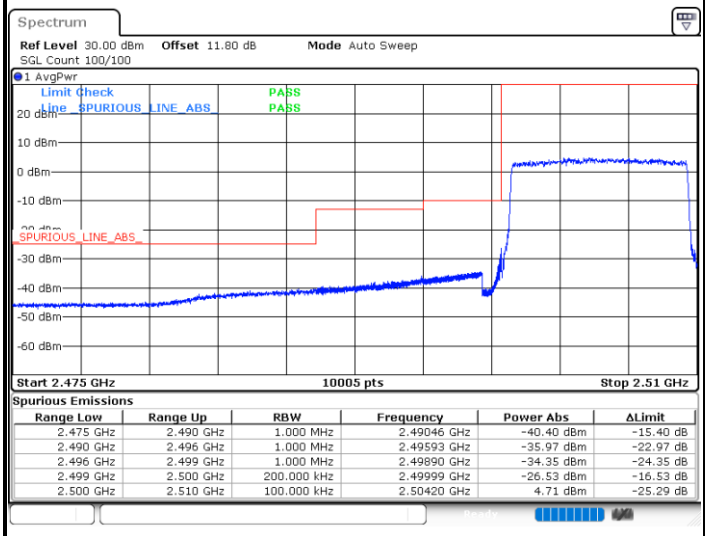


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56942 GHz	20.27 dBm	-9.73 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57000 GHz	-21.30 dBm	-11.30 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-37.36 dBm	-27.36 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57815 GHz	-41.07 dBm	-28.07 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58686 GHz	-44.04 dBm	-19.04 dB

Date: 30.OCT.2021 11:11:21

Lowest Band Edge / Full RB

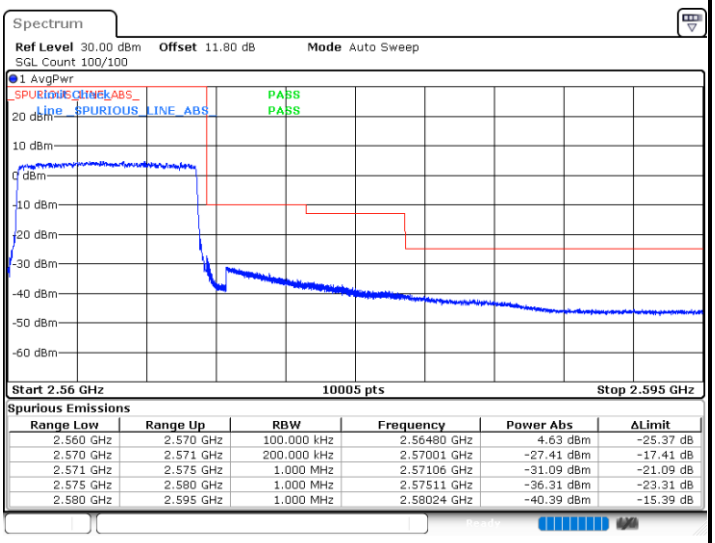


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49046 GHz	-40.40 dBm	-15.40 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49593 GHz	-35.97 dBm	-22.97 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49890 GHz	-34.35 dBm	-24.35 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.49999 GHz	-26.53 dBm	-16.53 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50420 GHz	4.71 dBm	-25.29 dB

Date: 30.OCT.2021 11:07:49

Highest Band Edge / Full RB



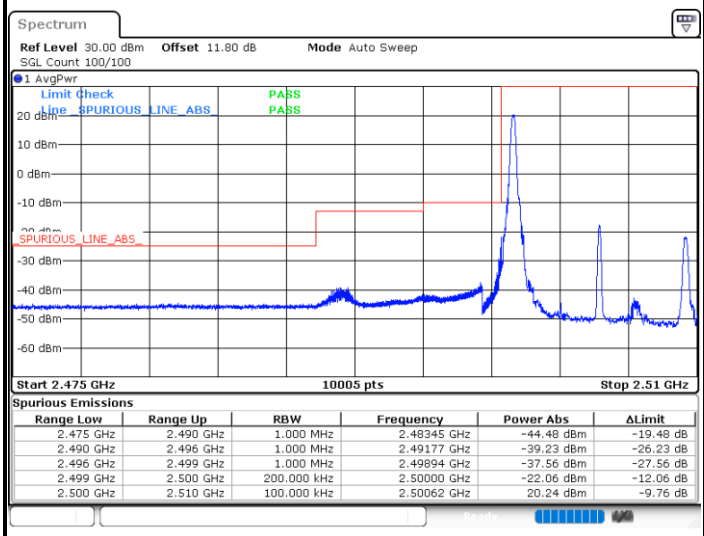
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56480 GHz	4.63 dBm	-25.37 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57001 GHz	-27.41 dBm	-17.41 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57106 GHz	-31.09 dBm	-21.09 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57511 GHz	-36.31 dBm	-23.31 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58024 GHz	-40.39 dBm	-15.39 dB

Date: 30.OCT.2021 11:13:02

LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

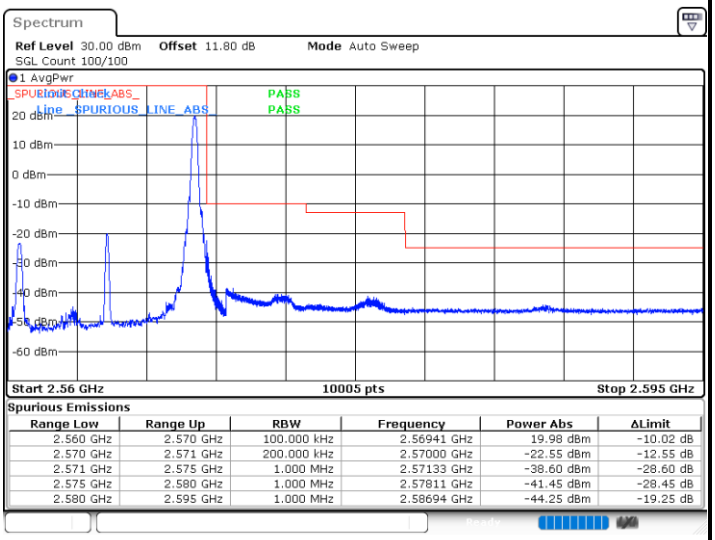


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48345 GHz	-44.48 dBm	-19.48 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49177 GHz	-39.23 dBm	-26.23 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49894 GHz	-37.56 dBm	-27.56 dB
2.499 GHz	2.500 GHz	200.000 kHz	2.50000 GHz	-22.06 dBm	-12.06 dB
2.500 GHz	2.510 GHz	100.000 kHz	2.50062 GHz	20.24 dBm	-9.76 dB

Date: 30.OCT.2021 11:06:58

Highest Band Edge / 1 RB



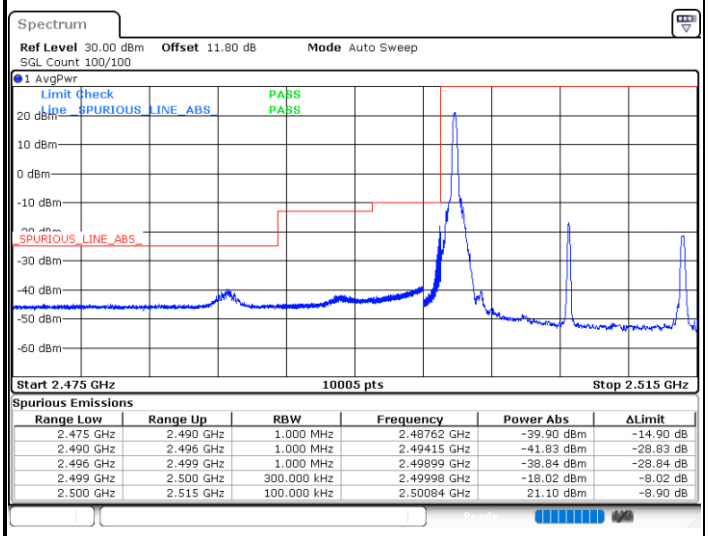
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.560 GHz	2.570 GHz	100.000 kHz	2.56941 GHz	19.98 dBm	-10.02 dB
2.570 GHz	2.571 GHz	200.000 kHz	2.57000 GHz	-22.55 dBm	-12.55 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57133 GHz	-38.60 dBm	-28.60 dB
2.575 GHz	2.580 GHz	1.000 MHz	2.57811 GHz	-41.45 dBm	-28.45 dB
2.580 GHz	2.595 GHz	1.000 MHz	2.58694 GHz	-44.25 dBm	-19.25 dB

Date: 30.OCT.2021 11:12:12

LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB

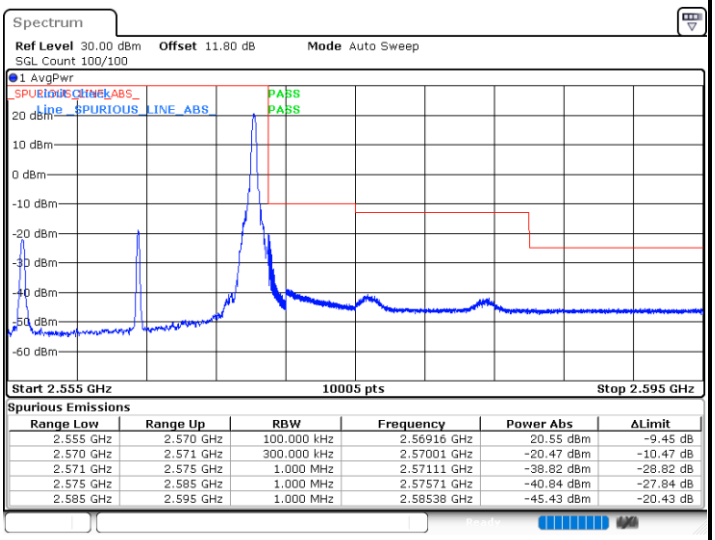


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48762 GHz	-39.90 dBm	-14.90 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49415 GHz	-41.83 dBm	-28.83 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-38.84 dBm	-28.84 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49998 GHz	-18.02 dBm	-8.02 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50084 GHz	21.10 dBm	-8.90 dB

Date: 30.OCT.2021 11:14:55

Highest Band Edge / 1 RB

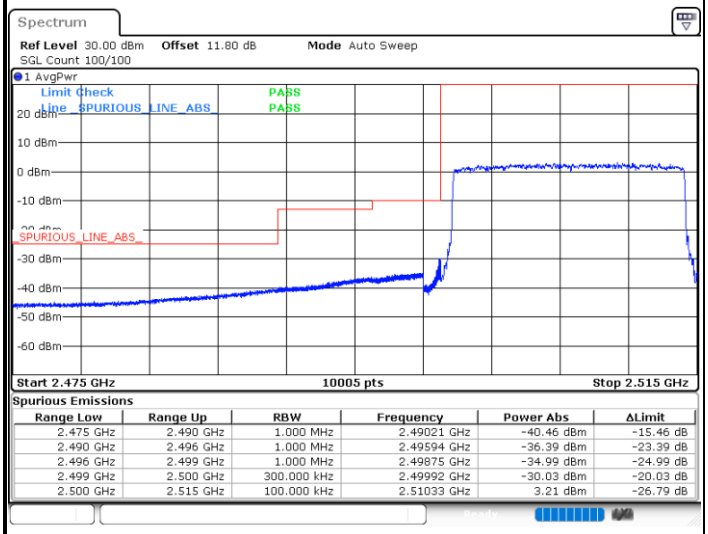


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56916 GHz	20.55 dBm	-9.45 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-20.47 dBm	-10.47 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57111 GHz	-38.82 dBm	-28.82 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57571 GHz	-40.84 dBm	-27.84 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58538 GHz	-45.43 dBm	-20.43 dB

Date: 30.OCT.2021 11:20:08

Lowest Band Edge / Full RB

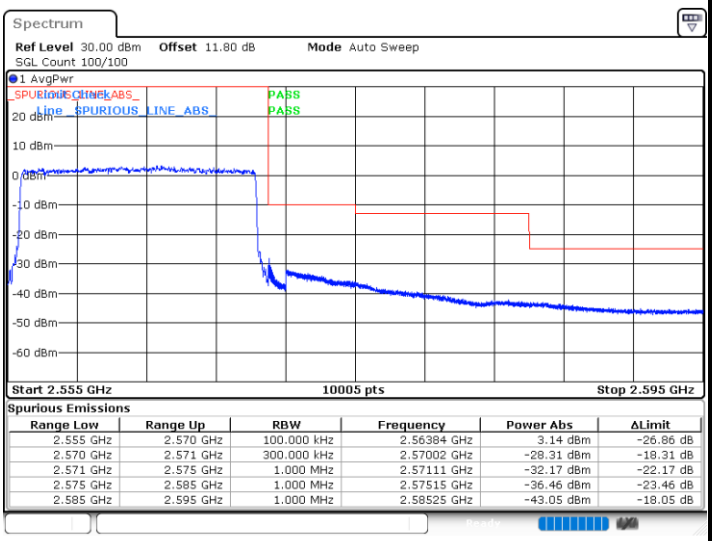


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.49021 GHz	-40.46 dBm	-15.46 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49594 GHz	-36.39 dBm	-23.39 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49875 GHz	-34.99 dBm	-24.99 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49992 GHz	-30.03 dBm	-20.03 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.51033 GHz	3.21 dBm	-26.79 dB

Date: 30.OCT.2021 11:16:37

Highest Band Edge / Full RB



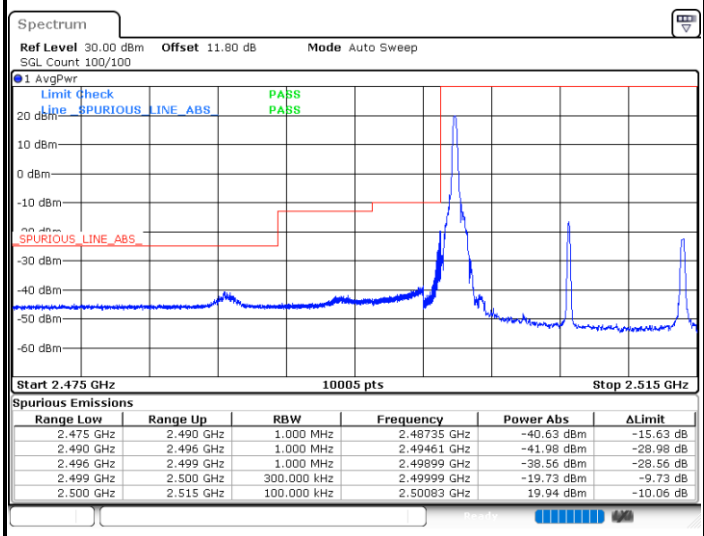
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56384 GHz	3.14 dBm	-26.86 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57002 GHz	-28.31 dBm	-18.31 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57111 GHz	-32.17 dBm	-22.17 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57515 GHz	-36.46 dBm	-23.46 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.58525 GHz	-43.05 dBm	-18.05 dB

Date: 30.OCT.2021 11:21:49

LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB

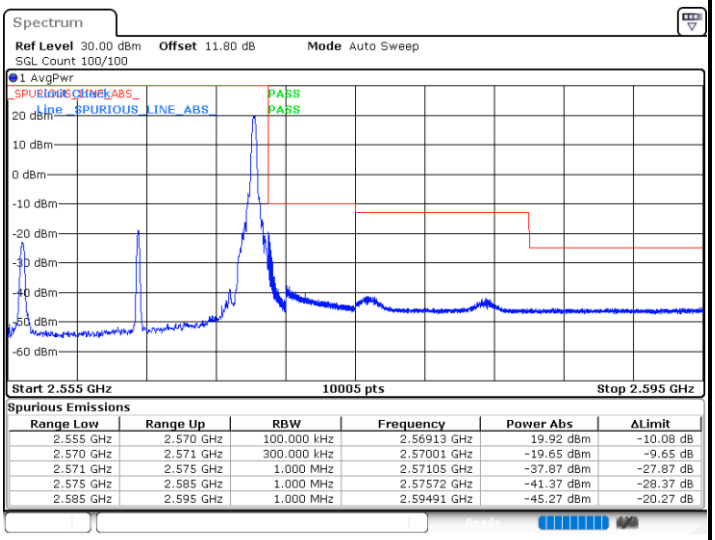


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48735 GHz	-40.63 dBm	-15.63 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49461 GHz	-41.98 dBm	-28.98 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49899 GHz	-38.56 dBm	-28.56 dB
2.499 GHz	2.500 GHz	300.000 kHz	2.49999 GHz	-19.73 dBm	-9.73 dB
2.500 GHz	2.515 GHz	100.000 kHz	2.50083 GHz	19.94 dBm	-10.06 dB

Date: 30.OCT.2021 11:15:46

Highest Band Edge / 1 RB



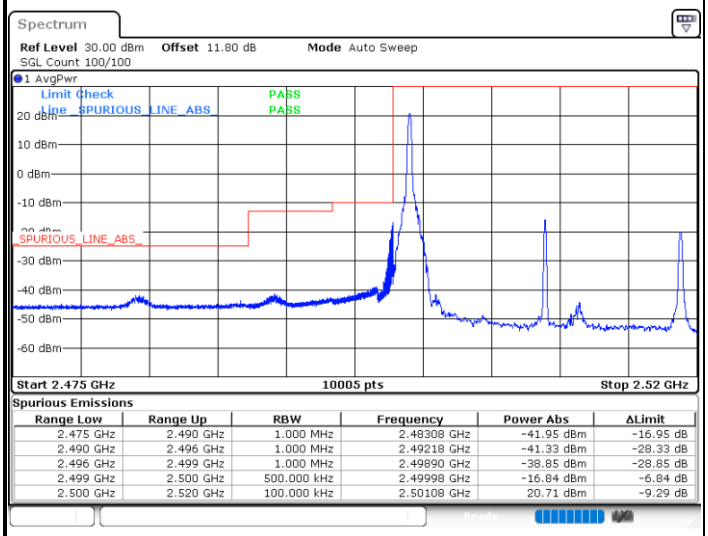
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.555 GHz	2.570 GHz	100.000 kHz	2.56913 GHz	19.92 dBm	-10.08 dB
2.570 GHz	2.571 GHz	300.000 kHz	2.57001 GHz	-19.65 dBm	-9.65 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57105 GHz	-37.87 dBm	-27.87 dB
2.575 GHz	2.585 GHz	1.000 MHz	2.57572 GHz	-41.37 dBm	-28.37 dB
2.585 GHz	2.595 GHz	1.000 MHz	2.59491 GHz	-45.27 dBm	-20.27 dB

Date: 30.OCT.2021 11:20:58

LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB

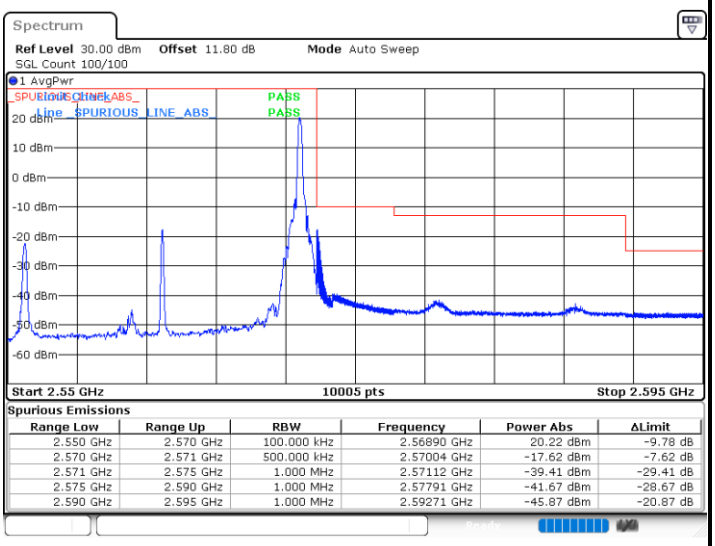


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48308 GHz	-41.95 dBm	-16.95 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49218 GHz	-41.33 dBm	-28.33 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49890 GHz	-38.85 dBm	-28.85 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-16.84 dBm	-6.84 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50108 GHz	20.71 dBm	-9.29 dB

Date: 30.OCT.2021 11:23:41

Highest Band Edge / 1 RB

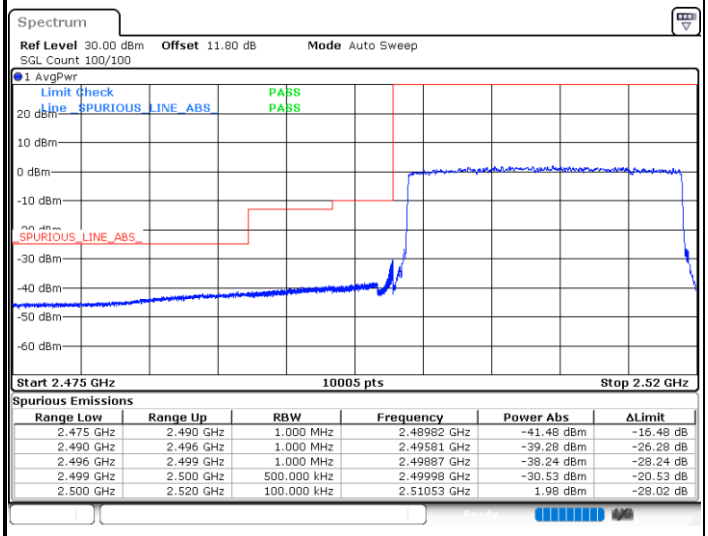


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56890 GHz	20.22 dBm	-9.78 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57004 GHz	-17.62 dBm	-7.62 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57112 GHz	-39.41 dBm	-29.41 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57791 GHz	-41.67 dBm	-28.67 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59271 GHz	-45.87 dBm	-20.87 dB

Date: 30.OCT.2021 11:28:53

Lowest Band Edge / Full RB

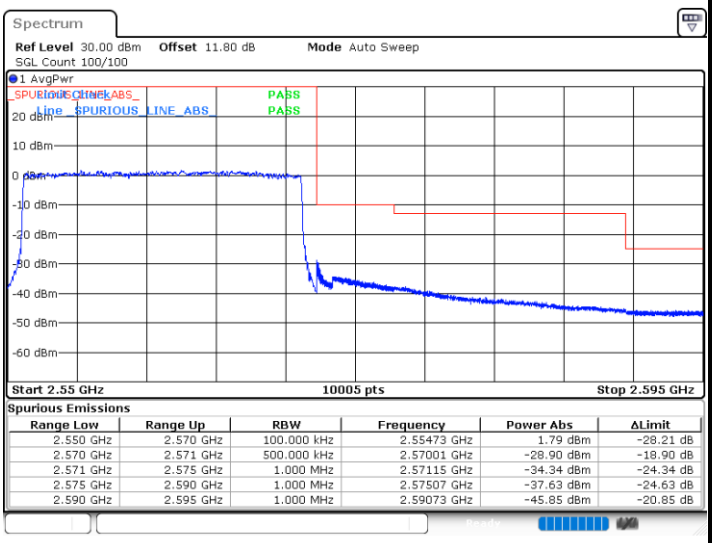


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48982 GHz	-41.48 dBm	-16.48 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49581 GHz	-39.28 dBm	-26.28 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49887 GHz	-38.24 dBm	-28.24 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49998 GHz	-30.53 dBm	-20.53 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.51053 GHz	1.98 dBm	-28.02 dB

Date: 30.OCT.2021 11:25:22

Highest Band Edge / Full RB



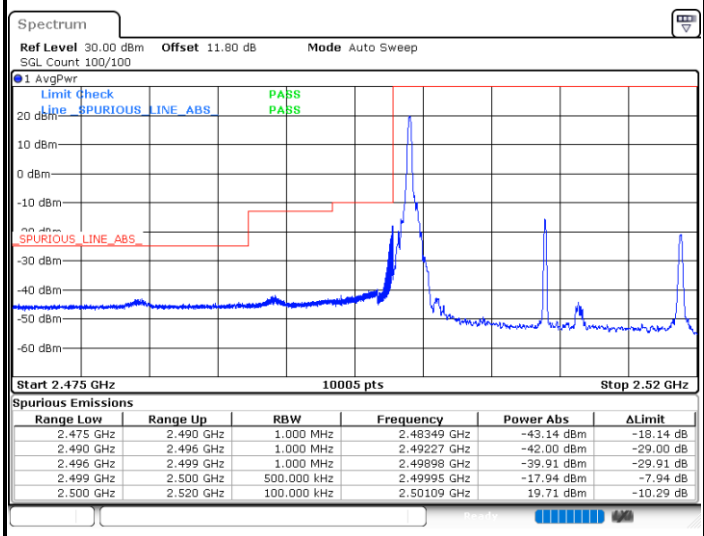
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.55473 GHz	1.79 dBm	-28.21 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57001 GHz	-28.90 dBm	-18.90 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57115 GHz	-34.34 dBm	-24.34 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57507 GHz	-37.63 dBm	-24.63 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59073 GHz	-45.85 dBm	-20.85 dB

Date: 30.OCT.2021 11:30:35

LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB

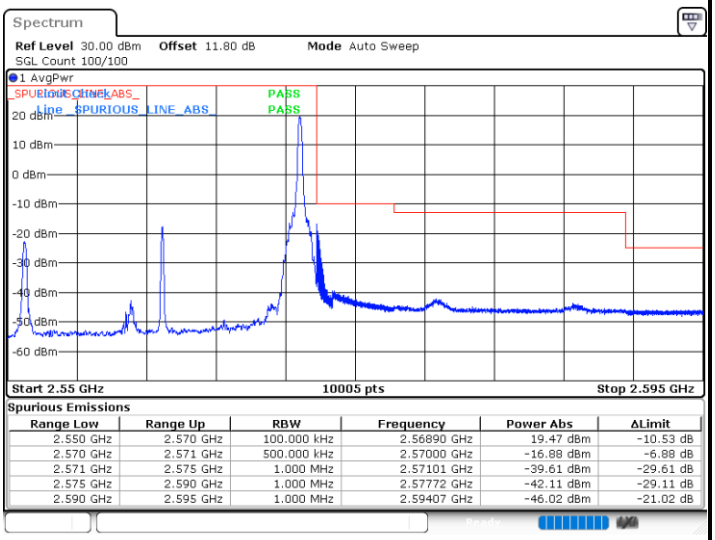


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.475 GHz	2.490 GHz	1.000 MHz	2.48349 GHz	-43.14 dBm	-18.14 dB
2.490 GHz	2.496 GHz	1.000 MHz	2.49227 GHz	-42.00 dBm	-29.00 dB
2.496 GHz	2.499 GHz	1.000 MHz	2.49898 GHz	-39.91 dBm	-29.91 dB
2.499 GHz	2.500 GHz	500.000 kHz	2.49995 GHz	-17.94 dBm	-7.94 dB
2.500 GHz	2.520 GHz	100.000 kHz	2.50109 GHz	19.71 dBm	-10.29 dB

Date: 30.OCT.2021 11:24:31

Highest Band Edge / 1 RB



Spurious Emissions

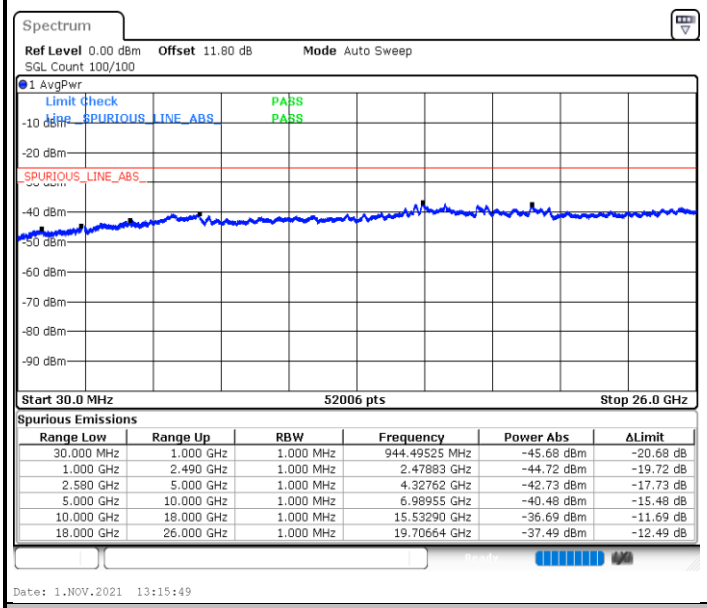
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
2.550 GHz	2.570 GHz	100.000 kHz	2.56890 GHz	19.47 dBm	-10.53 dB
2.570 GHz	2.571 GHz	500.000 kHz	2.57000 GHz	-16.88 dBm	-6.88 dB
2.571 GHz	2.575 GHz	1.000 MHz	2.57101 GHz	-39.61 dBm	-29.61 dB
2.575 GHz	2.590 GHz	1.000 MHz	2.57772 GHz	-42.11 dBm	-29.11 dB
2.590 GHz	2.595 GHz	1.000 MHz	2.59407 GHz	-46.02 dBm	-21.02 dB

Date: 30.OCT.2021 11:29:44

Conducted Spurious Emission

LTE Band 7 / 5MHz

Lowest Channel / QPSK

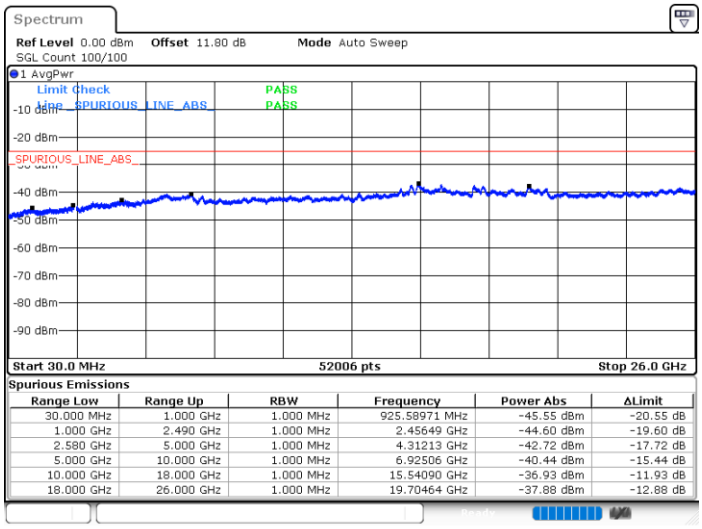


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	944.49525 MHz	-45.68 dBm	-20.68 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47883 GHz	-44.72 dBm	-19.72 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.32762 GHz	-42.73 dBm	-17.73 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.98955 GHz	-40.48 dBm	-15.48 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.53290 GHz	-36.69 dBm	-11.69 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.70664 GHz	-37.49 dBm	-12.49 dB

Date: 1.NOV.2021 13:15:49

Middle Channel / QPSK

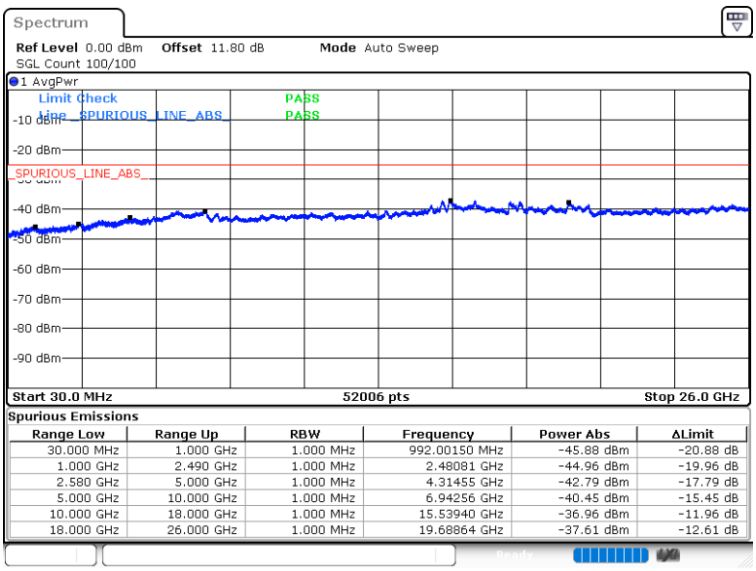


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	925.58971 MHz	-45.55 dBm	-20.55 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.45649 GHz	-44.60 dBm	-19.60 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31213 GHz	-42.72 dBm	-17.72 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92506 GHz	-40.44 dBm	-15.44 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.54090 GHz	-36.93 dBm	-11.93 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.70464 GHz	-37.88 dBm	-12.88 dB

Date: 1.NOV.2021 13:17:00

Highest Channel / QPSK



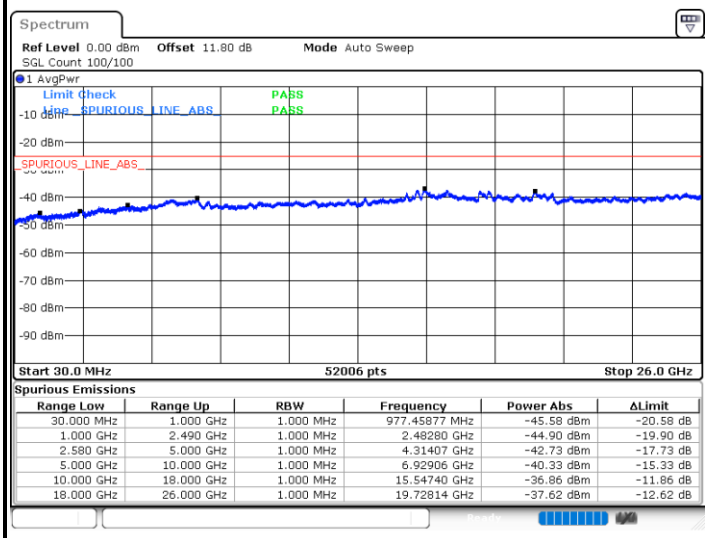
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	992.00150 MHz	-45.88 dBm	-20.88 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48081 GHz	-44.96 dBm	-19.96 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31455 GHz	-42.79 dBm	-17.79 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.94256 GHz	-40.45 dBm	-15.45 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.53940 GHz	-36.96 dBm	-11.96 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.68864 GHz	-37.61 dBm	-12.61 dB

Date: 1.NOV.2021 13:18:09

LTE Band 7 / 10MHz

Lowest Channel / QPSK

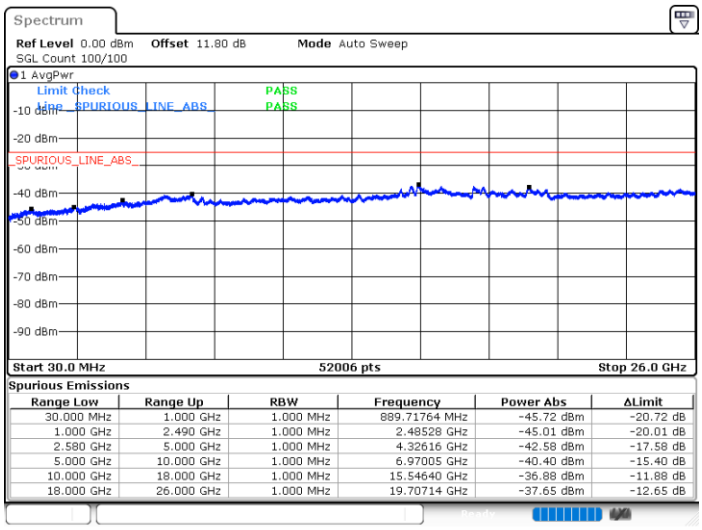


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	977.45877 MHz	-45.58 dBm	-20.58 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48280 GHz	-44.90 dBm	-19.90 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.31407 GHz	-42.73 dBm	-17.73 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92906 GHz	-40.33 dBm	-15.33 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.54740 GHz	-36.86 dBm	-11.86 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.72814 GHz	-37.62 dBm	-12.62 dB

Date: 1.NOV.2021 13:19:20

Middle Channel / QPSK

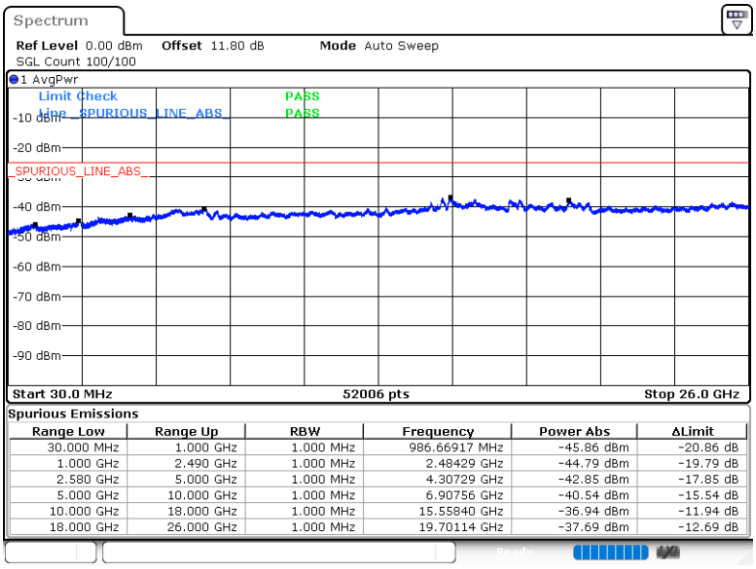


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	889.71764 MHz	-45.72 dBm	-20.72 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48528 GHz	-45.01 dBm	-20.01 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.32616 GHz	-42.58 dBm	-17.58 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.97005 GHz	-40.40 dBm	-15.40 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.54640 GHz	-36.88 dBm	-11.88 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.70714 GHz	-37.65 dBm	-12.65 dB

Date: 1.NOV.2021 13:20:30

Highest Channel / QPSK



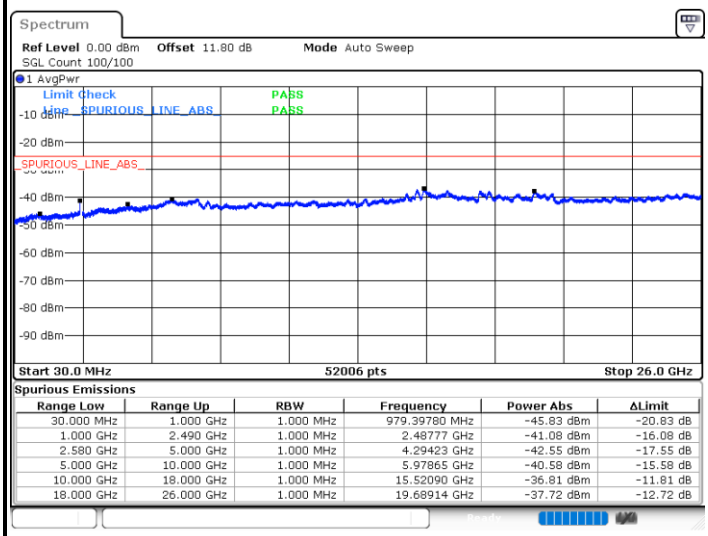
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	986.66917 MHz	-45.86 dBm	-20.86 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48429 GHz	-44.79 dBm	-19.79 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.30729 GHz	-42.85 dBm	-17.85 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.90756 GHz	-40.54 dBm	-15.54 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.55840 GHz	-36.94 dBm	-11.94 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.70114 GHz	-37.69 dBm	-12.69 dB

Date: 1.NOV.2021 13:21:40

LTE Band 7 / 15MHz

Lowest Channel / QPSK

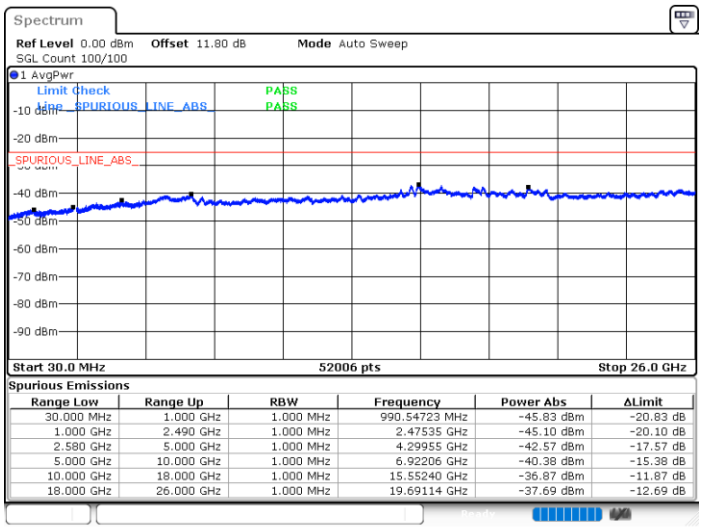


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	979.39780 MHz	-45.83 dBm	-20.83 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48777 GHz	-41.08 dBm	-16.08 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29423 GHz	-42.55 dBm	-17.55 dB
5.000 GHz	10.000 GHz	1.000 MHz	5.97865 GHz	-40.58 dBm	-15.58 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.52090 GHz	-36.81 dBm	-11.81 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.68914 GHz	-37.72 dBm	-12.72 dB

Date: 1.NOV.2021 13:22:51

Middle Channel / QPSK

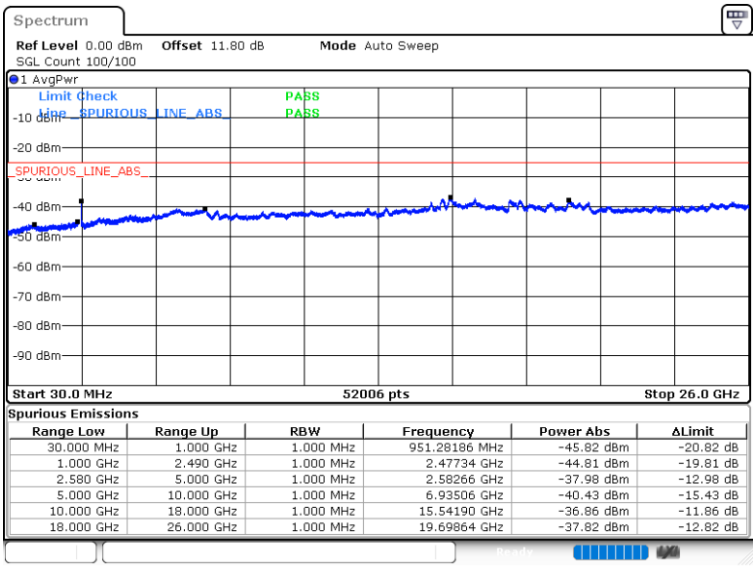


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	990.54723 MHz	-45.83 dBm	-20.83 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47535 GHz	-45.10 dBm	-20.10 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29955 GHz	-42.57 dBm	-17.57 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92206 GHz	-40.38 dBm	-15.38 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.55240 GHz	-36.87 dBm	-11.87 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.69114 GHz	-37.69 dBm	-12.69 dB

Date: 1.NOV.2021 13:24:01

Highest Channel / QPSK



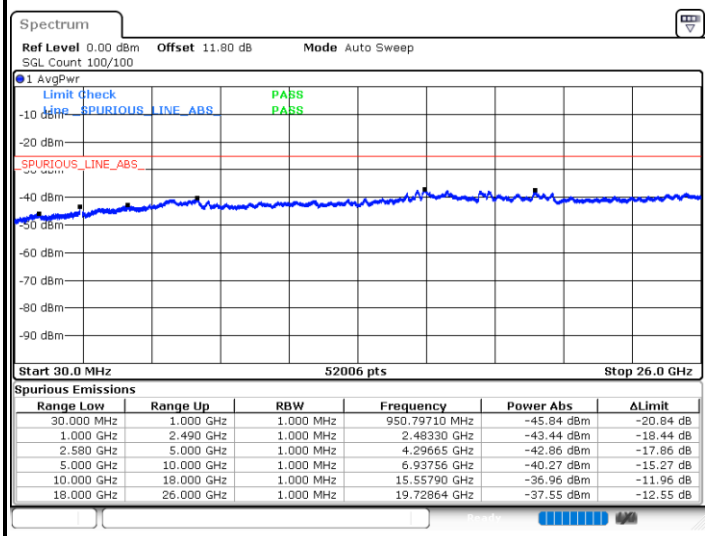
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	951.28186 MHz	-45.82 dBm	-20.82 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.47734 GHz	-44.81 dBm	-19.81 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58266 GHz	-37.98 dBm	-12.98 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.93506 GHz	-40.43 dBm	-15.43 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.54190 GHz	-36.86 dBm	-11.86 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.69864 GHz	-37.82 dBm	-12.82 dB

Date: 1.NOV.2021 13:25:12

LTE Band 7 / 20MHz

Lowest Channel / QPSK

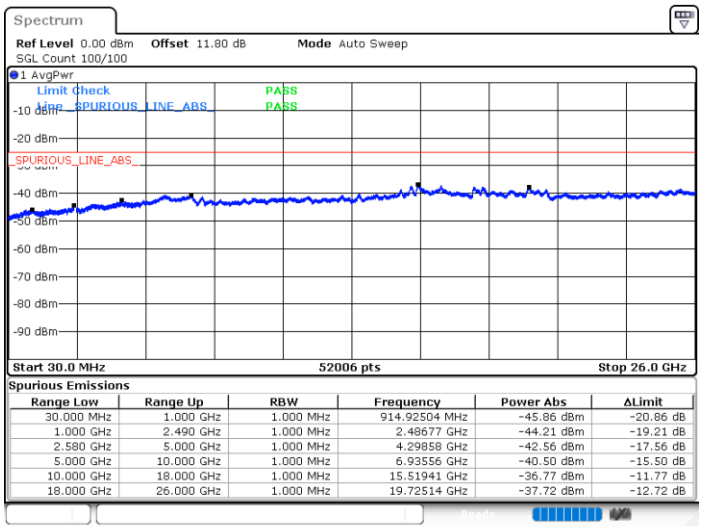


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	950.79710 MHz	-45.84 dBm	-20.84 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48330 GHz	-43.44 dBm	-18.44 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29665 GHz	-42.86 dBm	-17.86 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.93756 GHz	-40.27 dBm	-15.27 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.55790 GHz	-36.96 dBm	-11.96 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.72864 GHz	-37.55 dBm	-12.55 dB

Date: 1.NOV.2021 13:26:23

Middle Channel / QPSK

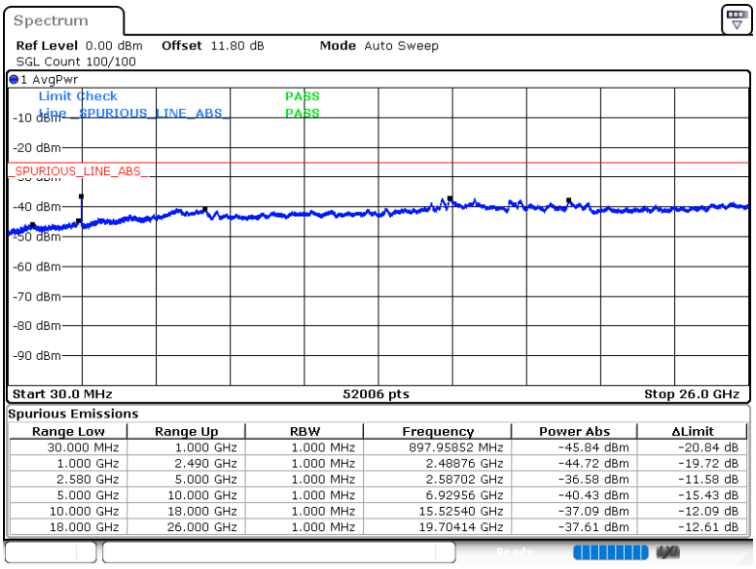


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	914.92504 MHz	-45.86 dBm	-20.86 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48677 GHz	-44.21 dBm	-19.21 dB
2.580 GHz	5.000 GHz	1.000 MHz	4.29858 GHz	-42.56 dBm	-17.56 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.93556 GHz	-40.50 dBm	-15.50 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.51941 GHz	-36.77 dBm	-11.77 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.72514 GHz	-37.72 dBm	-12.72 dB

Date: 1.NOV.2021 13:27:33

Highest Channel / QPSK



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	897.95852 MHz	-45.84 dBm	-20.84 dB
1.000 GHz	2.490 GHz	1.000 MHz	2.48876 GHz	-44.72 dBm	-19.72 dB
2.580 GHz	5.000 GHz	1.000 MHz	2.58702 GHz	-36.58 dBm	-11.58 dB
5.000 GHz	10.000 GHz	1.000 MHz	6.92956 GHz	-40.43 dBm	-15.43 dB
10.000 GHz	18.000 GHz	1.000 MHz	15.52540 GHz	-37.09 dBm	-12.09 dB
18.000 GHz	26.000 GHz	1.000 MHz	19.70414 GHz	-37.61 dBm	-12.61 dB

Date: 1.NOV.2021 13:28:42

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0017	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0034	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0032	
20	Maximum Voltage	0.0031	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

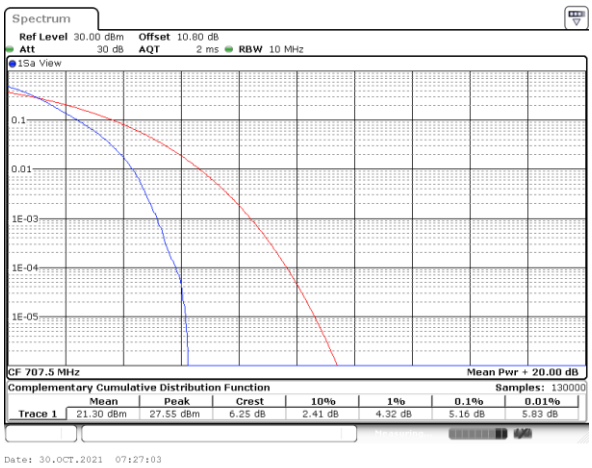
1. Normal Voltage =12.00 V.；Battery End Point (BEP) =8.00 V.；Maximum Voltage =40.00 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz	
Mod.	QPSK	Limit: 13dB
RB Size	Full RB	Result
Middle CH	5.16	PASS

LTE Band 12 / 10MHz / QPSK
Middle Channel / Full RB

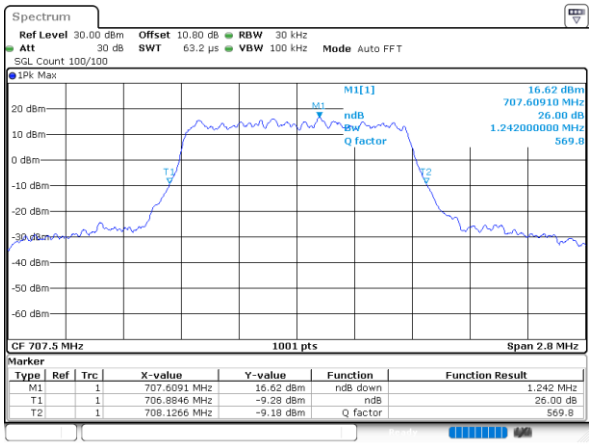


26dB Bandwidth

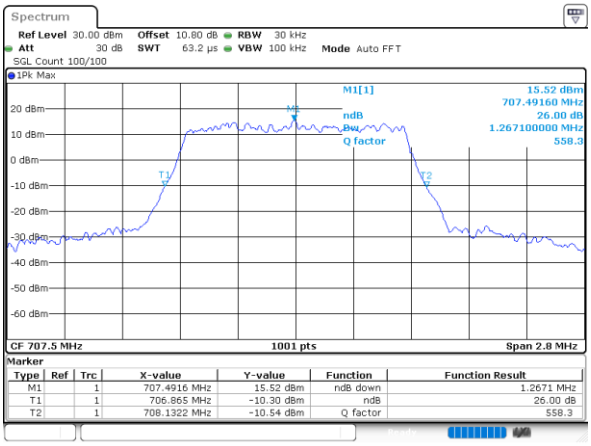
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.24	1.27	2.99	3.01	4.98	4.98	9.79	-	-	-	-	-
Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-

LTE Band 12

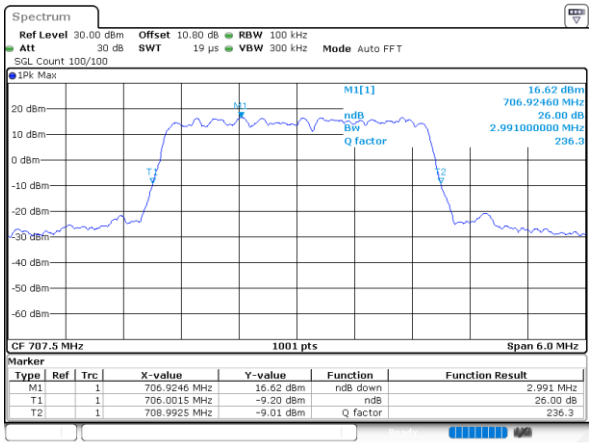
Middle Channel / 1.4MHz / QPSK



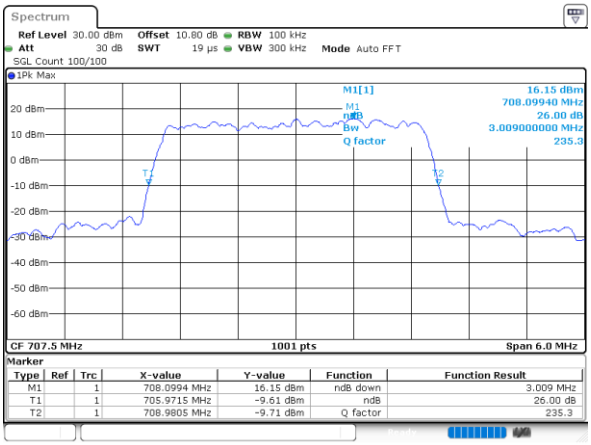
Middle Channel / 1.4MHz / 16QAM



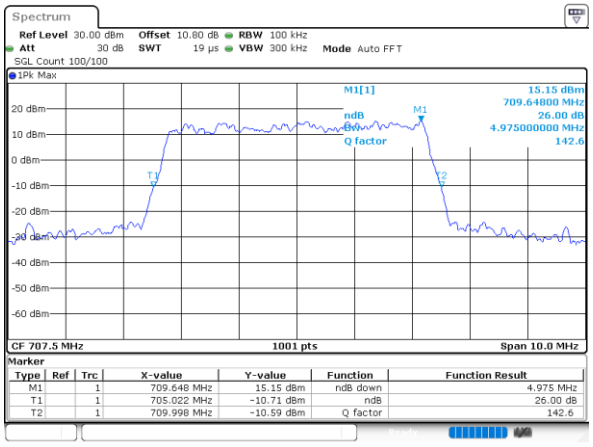
Middle Channel / 3MHz / QPSK



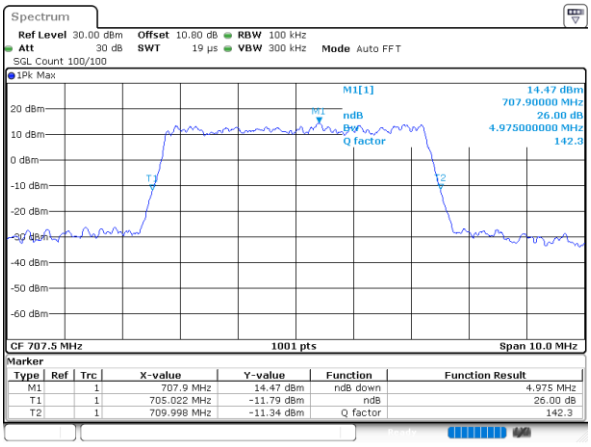
Middle Channel / 3MHz / 16QAM



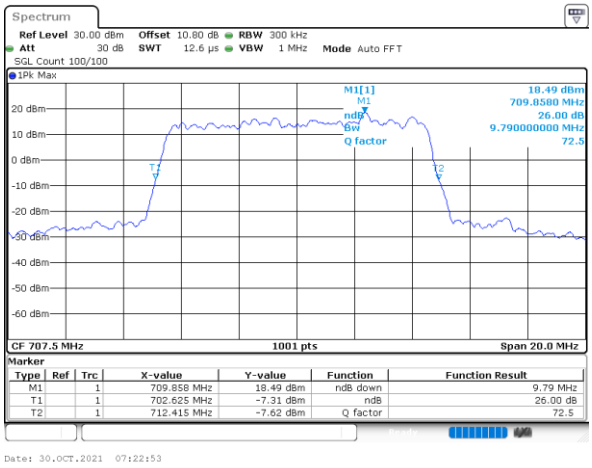
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



LTE Band 12
Middle Channel / 10MHz / QPSK

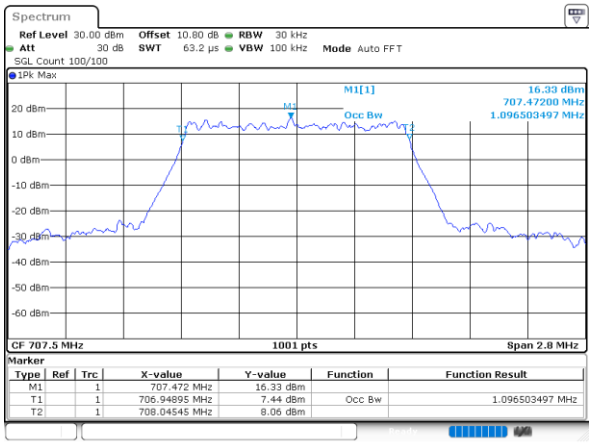


Occupied Bandwidth

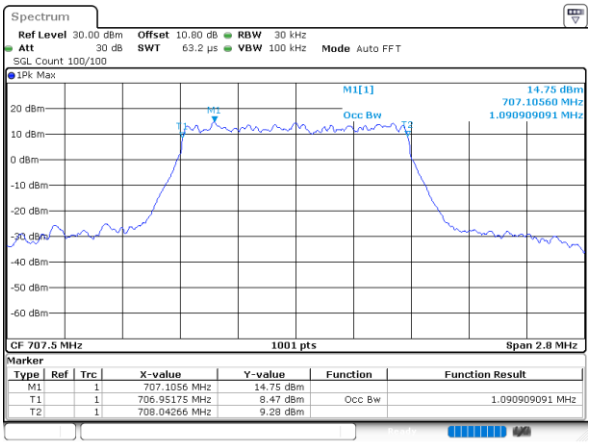
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.10	1.09	2.70	2.72	4.49	4.50	8.95	-	-	-	-	-
Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	-	-	-	-	-	-	-	-

LTE Band 12

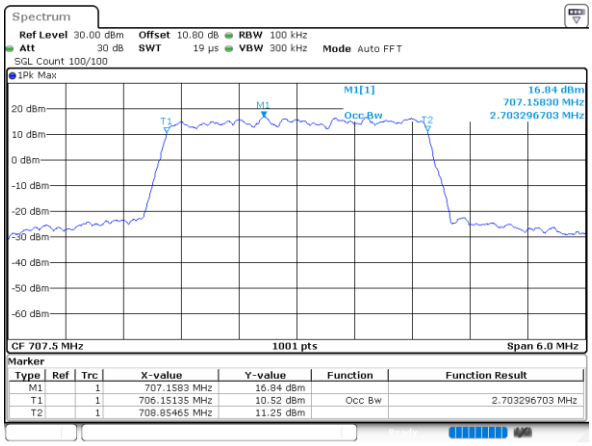
Middle Channel / 1.4MHz / QPSK



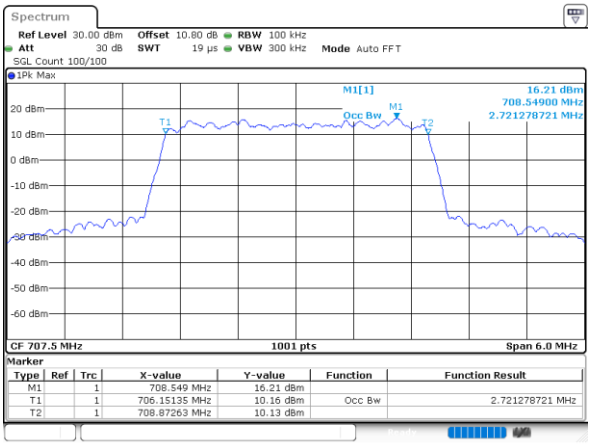
Middle Channel / 1.4MHz / 16QAM



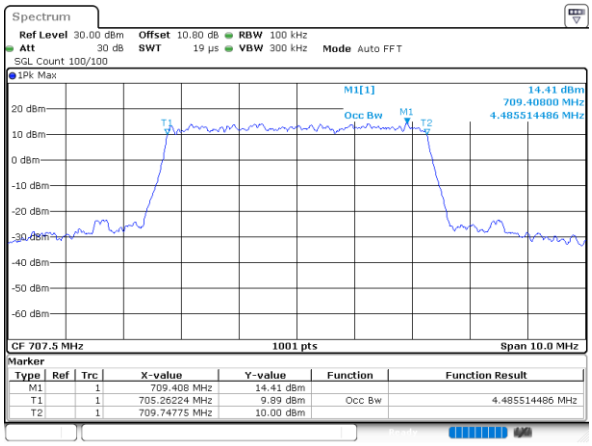
Middle Channel / 3MHz / QPSK



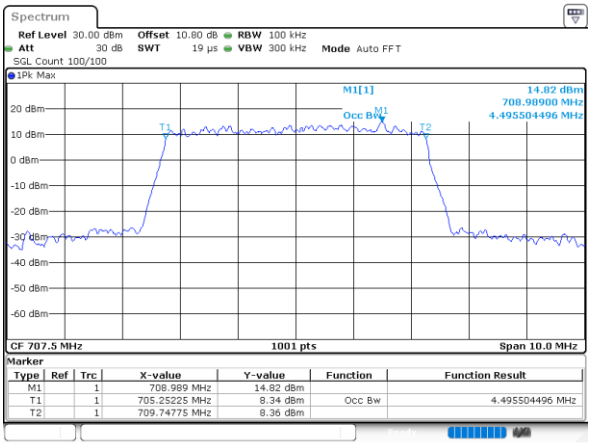
Middle Channel / 3MHz / 16QAM



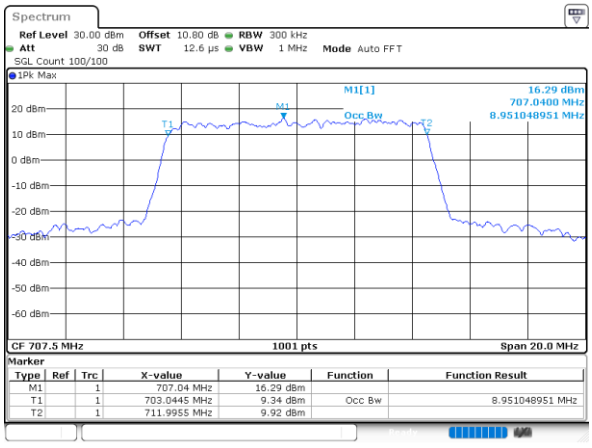
Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM



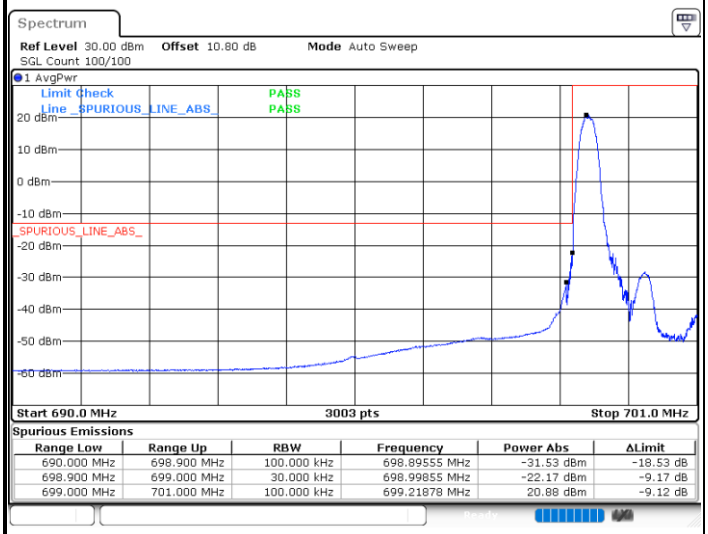
LTE Band 12
Middle Channel / 10MHz / QPSK



Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

Lowest Band Edge / 1RB

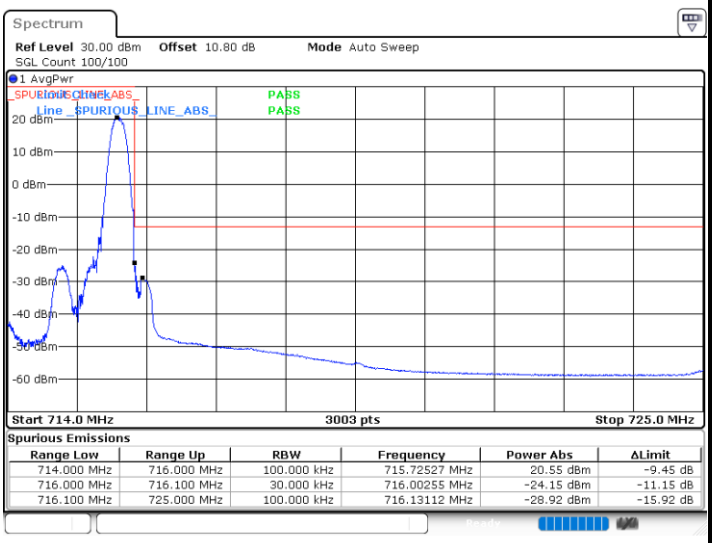


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.53 dBm	-18.53 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99855 MHz	-22.17 dBm	-9.17 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.21878 MHz	20.88 dBm	-9.12 dB

Date: 30.OCT.2021 06:53:34

Highest Band Edge / 1RB

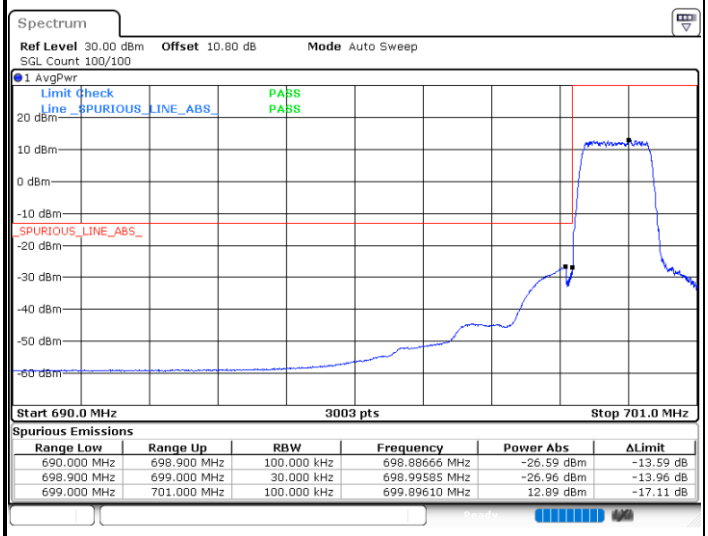


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.72527 MHz	20.55 dBm	-9.45 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00255 MHz	-24.15 dBm	-11.15 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.13112 MHz	-28.92 dBm	-15.92 dB

Date: 30.OCT.2021 06:59:24

Lowest Band Edge / Full RB

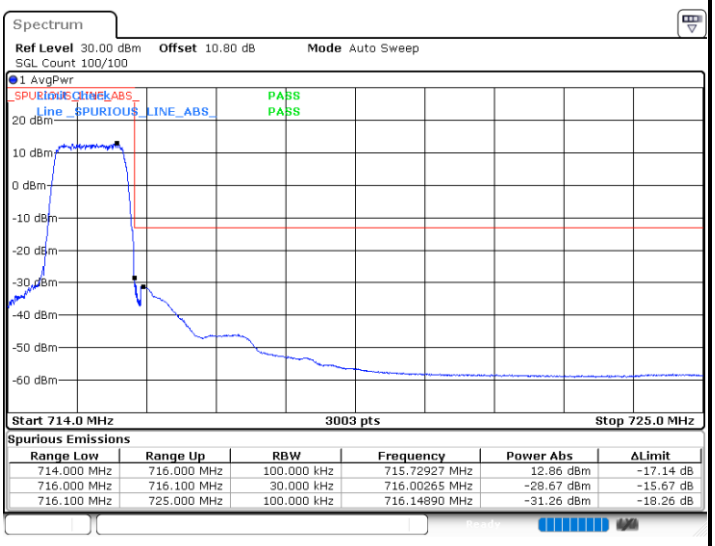


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-26.59 dBm	-13.59 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99585 MHz	-26.96 dBm	-13.96 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.89610 MHz	12.89 dBm	-17.11 dB

Date: 30.OCT.2021 06:51:30

Highest Band Edge / Full RB



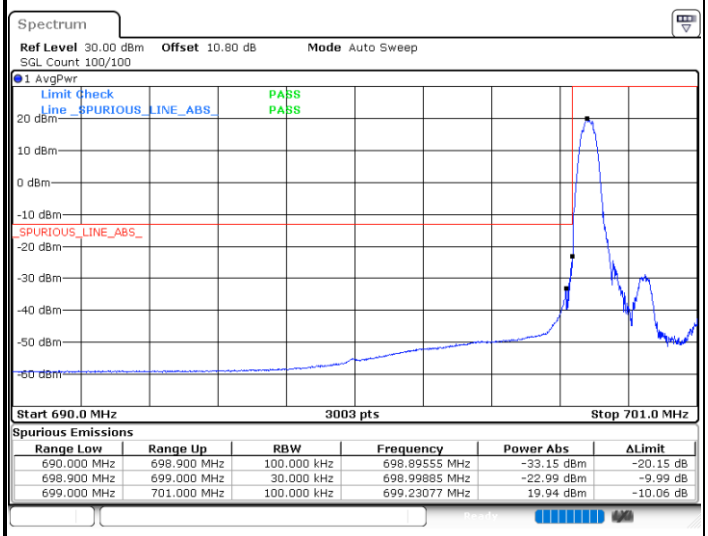
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.72927 MHz	12.86 dBm	-17.14 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00265 MHz	-28.67 dBm	-15.67 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.14890 MHz	-31.26 dBm	-18.26 dB

Date: 30.OCT.2021 06:57:21

LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

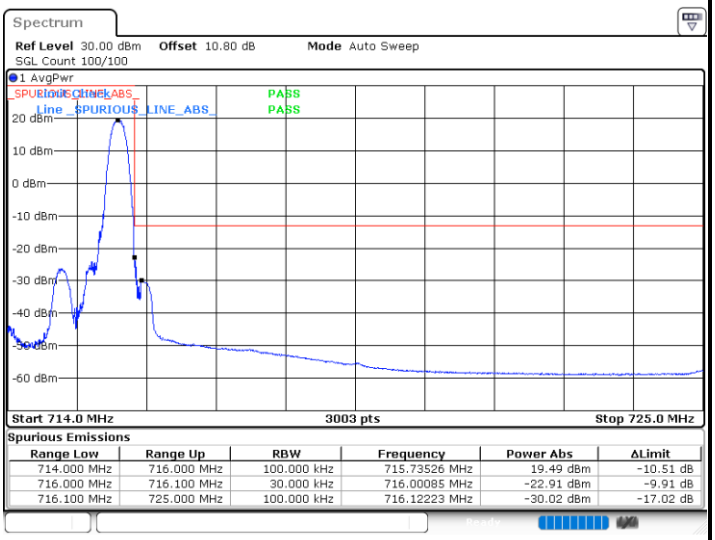


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.15 dBm	-20.15 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99885 MHz	-22.99 dBm	-9.99 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.23077 MHz	19.94 dBm	-10.06 dB

Date: 30.OCT.2021 06:52:53

Highest Band Edge / 1 RB

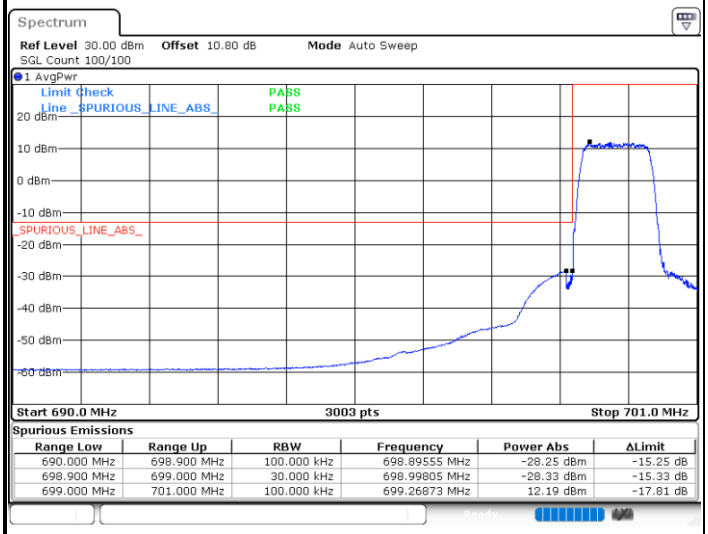


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.73526 MHz	19.49 dBm	-10.51 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-22.91 dBm	-9.91 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.12223 MHz	-30.02 dBm	-17.02 dB

Date: 30.OCT.2021 06:58:43

Lowest Band Edge / Full RB

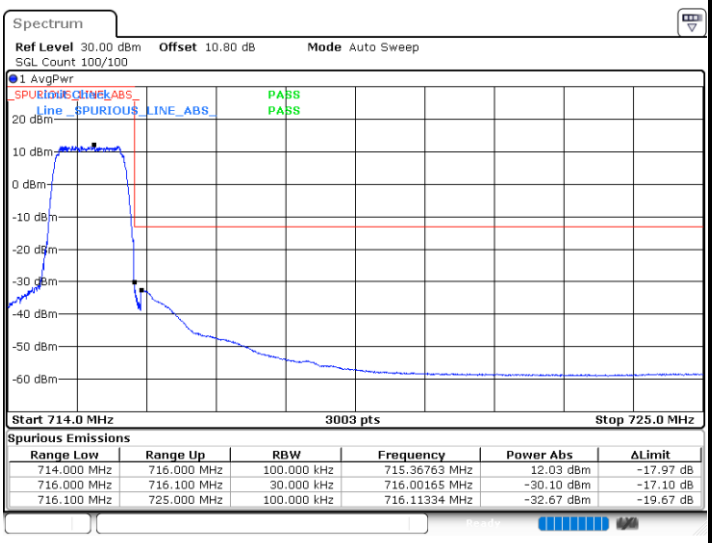


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-28.25 dBm	-15.25 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99805 MHz	-28.33 dBm	-15.33 dB
699.000 MHz	701.000 MHz	100.000 kHz	699.26873 MHz	12.19 dBm	-17.81 dB

Date: 30.OCT.2021 06:52:11

Highest Band Edge / Full RB



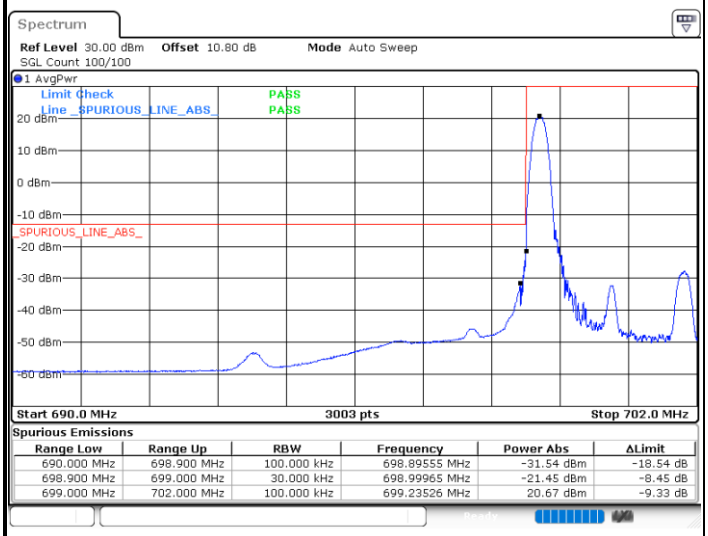
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
714.000 MHz	716.000 MHz	100.000 kHz	715.36763 MHz	12.03 dBm	-17.97 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00165 MHz	-30.10 dBm	-17.10 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.11334 MHz	-32.67 dBm	-19.67 dB

Date: 30.OCT.2021 06:58:02

LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB

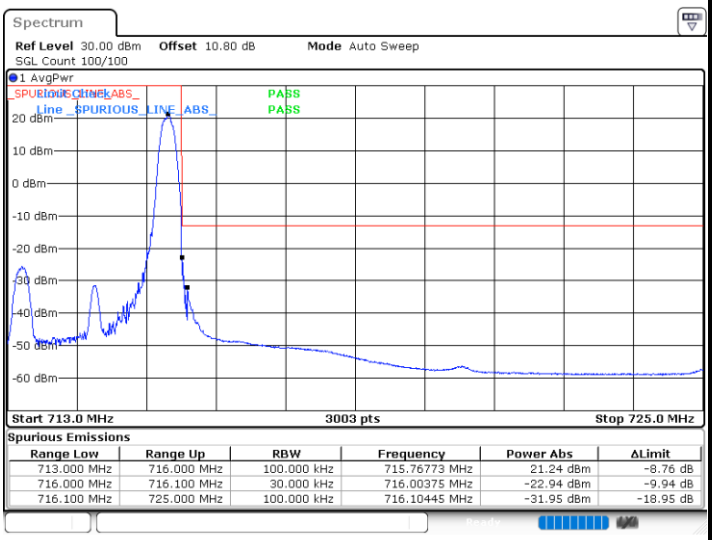


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-31.54 dBm	-18.54 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99965 MHz	-21.45 dBm	-8.45 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.23526 MHz	20.67 dBm	-9.33 dB

Date: 30.OCT.2021 07:03:02

Highest Band Edge / 1 RB

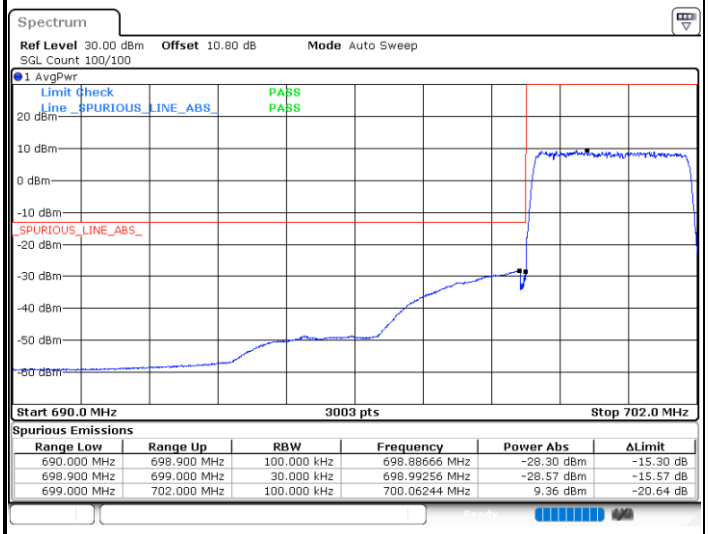


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.76773 MHz	21.24 dBm	-8.76 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00375 MHz	-22.94 dBm	-9.94 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-31.95 dBm	-18.95 dB

Date: 30.OCT.2021 07:08:53

Lowest Band Edge / Full RB

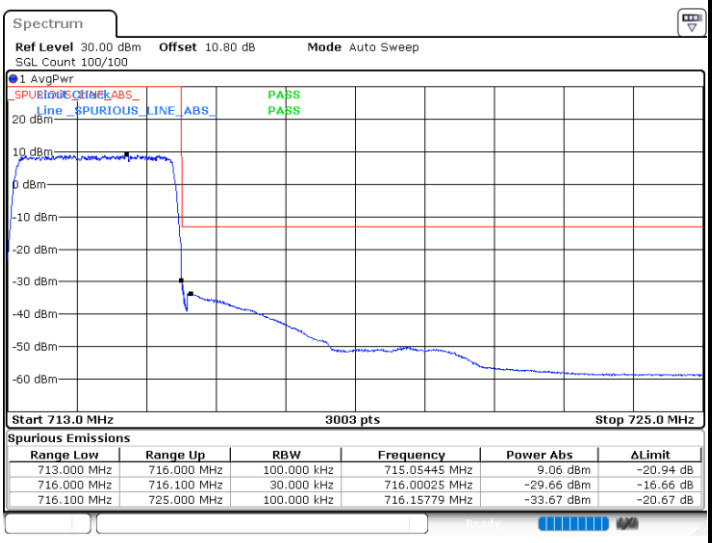


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.88666 MHz	-28.30 dBm	-15.30 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99256 MHz	-28.57 dBm	-15.57 dB
699.000 MHz	702.000 MHz	100.000 kHz	700.06244 MHz	9.36 dBm	-20.64 dB

Date: 30.OCT.2021 07:00:58

Highest Band Edge / Full RB



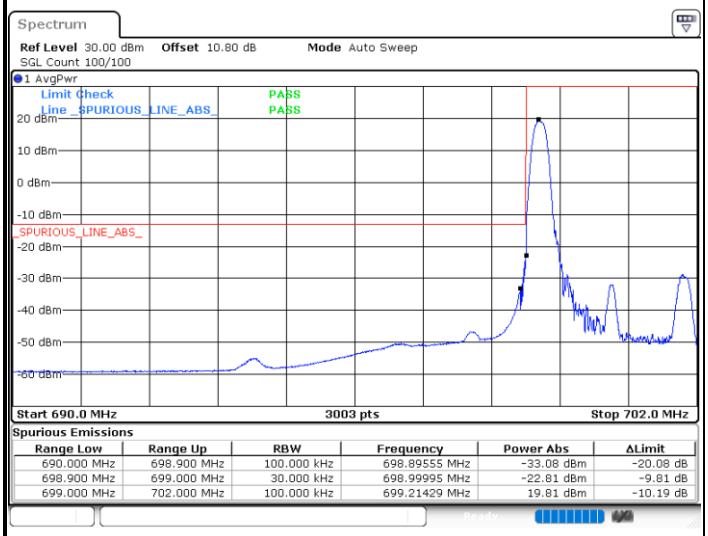
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.05445 MHz	9.06 dBm	-20.94 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00025 MHz	-29.66 dBm	-16.66 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.15779 MHz	-33.67 dBm	-20.67 dB

Date: 30.OCT.2021 07:06:50

LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB

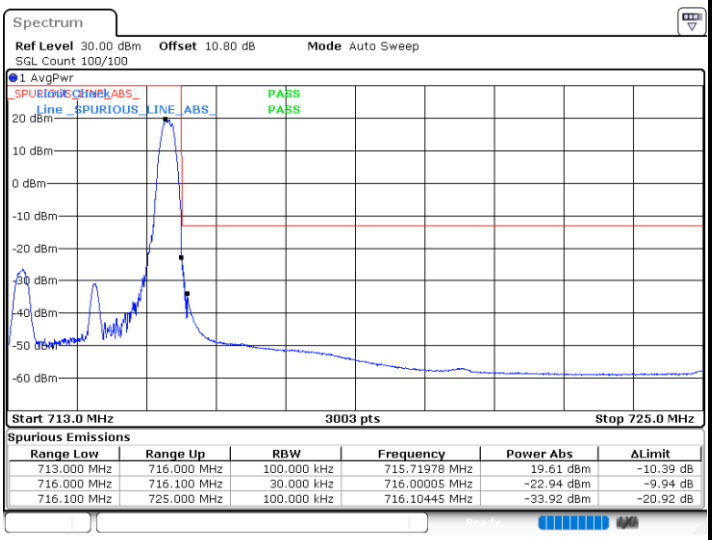


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-33.08 dBm	-20.08 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99995 MHz	-22.81 dBm	-9.81 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.21429 MHz	19.81 dBm	-10.19 dB

Date: 30.OCT.2021 07:02:20

Highest Band Edge /1 RB

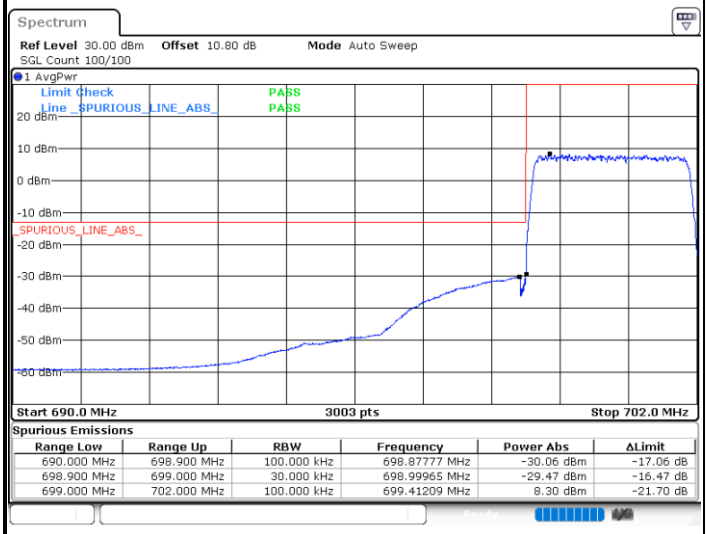


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	715.71978 MHz	19.61 dBm	-10.39 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00005 MHz	-22.94 dBm	-9.94 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.92 dBm	-20.92 dB

Date: 30.OCT.2021 07:08:12

Lowest Band Edge / Full RB

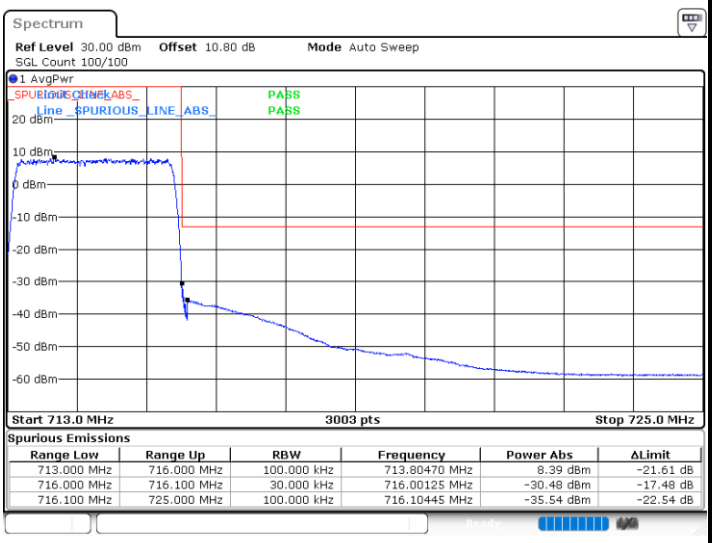


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.87777 MHz	-30.06 dBm	-17.06 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99965 MHz	-29.47 dBm	-16.47 dB
699.000 MHz	702.000 MHz	100.000 kHz	699.41209 MHz	8.30 dBm	-21.70 dB

Date: 30.OCT.2021 07:01:39

Highest Band Edge / Full RB



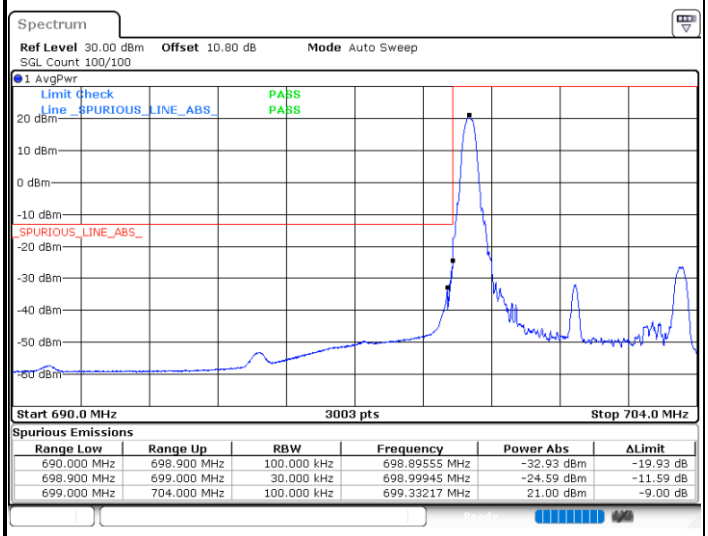
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
713.000 MHz	716.000 MHz	100.000 kHz	713.80470 MHz	8.39 dBm	-21.61 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00125 MHz	-30.48 dBm	-17.48 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-35.54 dBm	-22.54 dB

Date: 30.OCT.2021 07:07:31

LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB

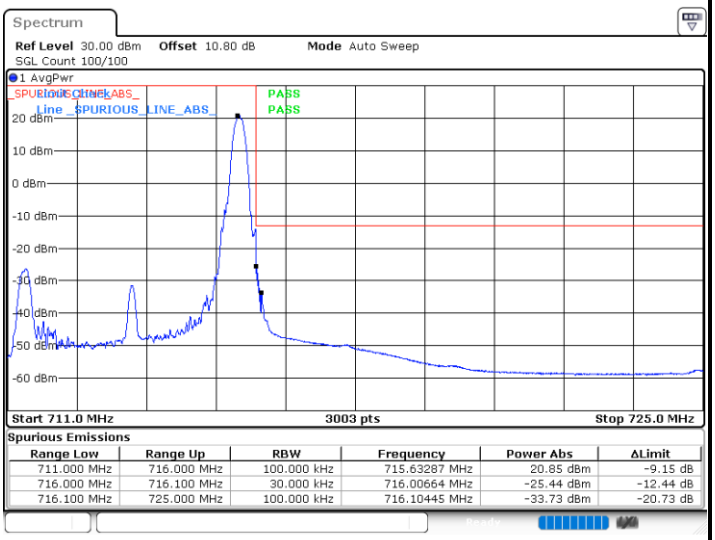


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-32.93 dBm	-19.93 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99945 MHz	-24.59 dBm	-11.59 dB
699.000 MHz	704.000 MHz	100.000 kHz	699.33217 MHz	21.00 dBm	-9.00 dB

Date: 30.OCT.2021 07:12:31

Highest Band Edge / 1 RB

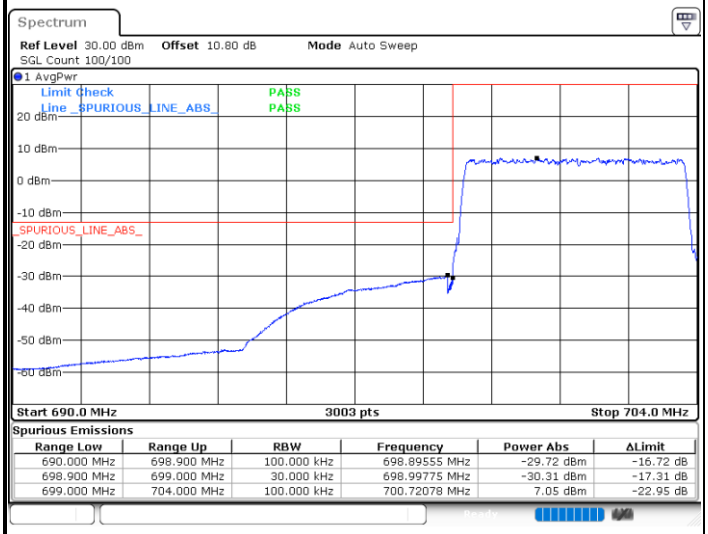


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	715.63287 MHz	20.85 dBm	-9.15 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00664 MHz	-25.44 dBm	-12.44 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.73 dBm	-20.73 dB

Date: 30.OCT.2021 07:17:41

Lowest Band Edge / Full RB

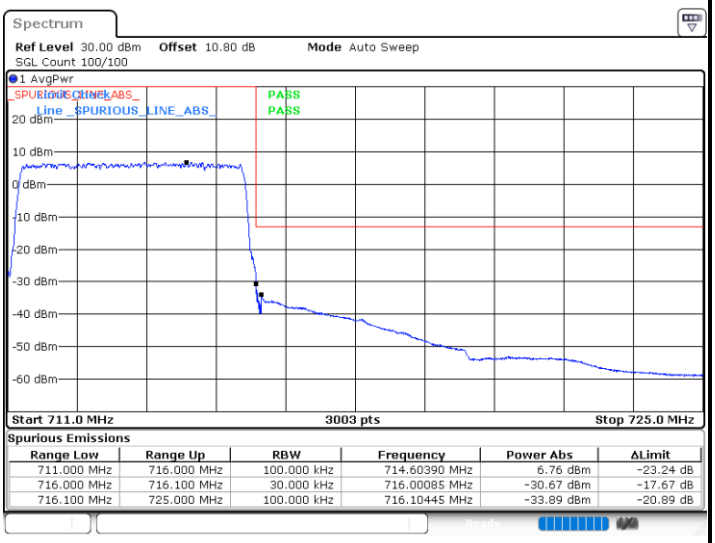


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
690.000 MHz	698.900 MHz	100.000 kHz	698.89555 MHz	-29.72 dBm	-16.72 dB
698.900 MHz	699.000 MHz	30.000 kHz	698.99775 MHz	-30.31 dBm	-17.31 dB
699.000 MHz	704.000 MHz	100.000 kHz	700.72078 MHz	7.05 dBm	-22.95 dB

Date: 30.OCT.2021 07:10:26

Highest Band Edge / Full RB



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
711.000 MHz	716.000 MHz	100.000 kHz	714.60390 MHz	6.76 dBm	-23.24 dB
716.000 MHz	716.100 MHz	30.000 kHz	716.00085 MHz	-30.67 dBm	-17.67 dB
716.100 MHz	725.000 MHz	100.000 kHz	716.10445 MHz	-33.89 dBm	-20.89 dB

Date: 30.OCT.2021 07:16:19