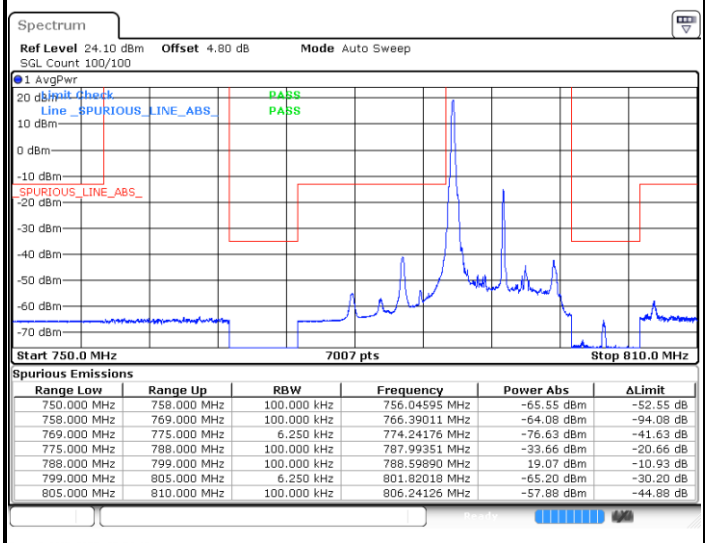
LTE Band 14 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

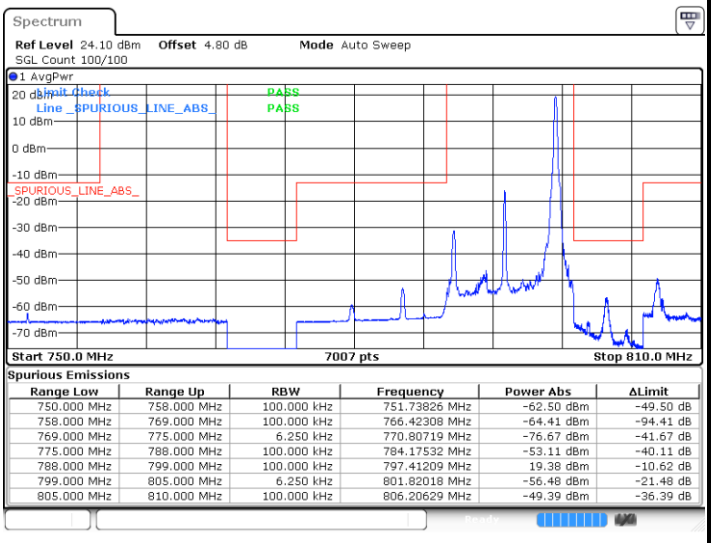


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.04595 MHz	-65.55 dBm	-52.55 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.39011 MHz	-64.08 dBm	-94.08 dB
769.000 MHz	775.000 MHz	6.250 kHz	774.24176 MHz	-76.63 dBm	-41.63 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-33.66 dBm	-20.66 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.59890 MHz	19.07 dBm	-10.93 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.82018 MHz	-65.20 dBm	-30.20 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.24126 MHz	-57.88 dBm	-44.88 dB

Date: 6.AUG.2020 22:21:46

Highest Band Edge / 1 RB

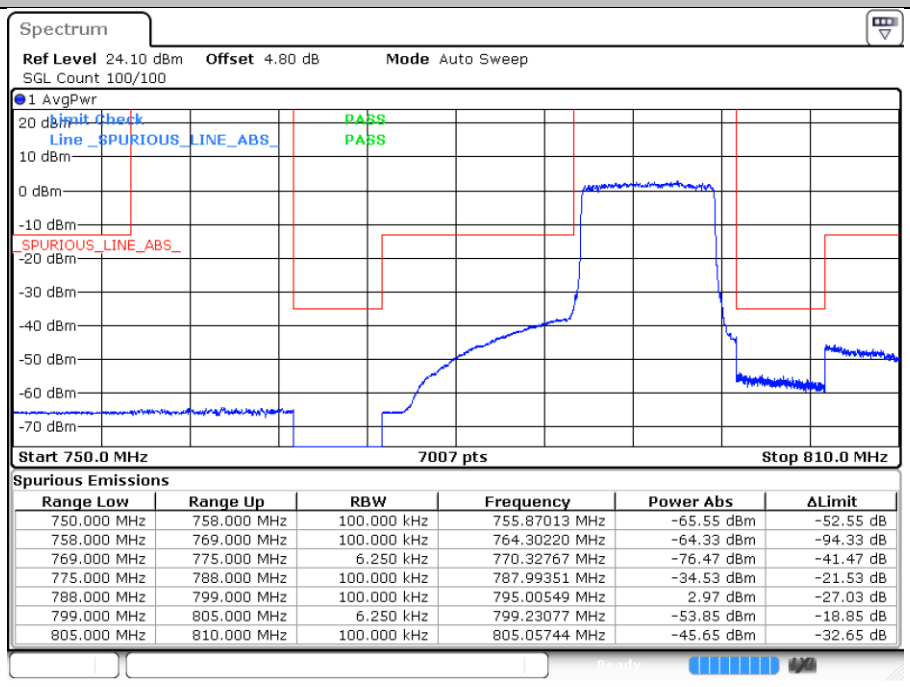


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.73826 MHz	-62.50 dBm	-49.50 dB
758.000 MHz	769.000 MHz	100.000 kHz	766.42308 MHz	-64.41 dBm	-94.41 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.80719 MHz	-76.67 dBm	-41.67 dB
775.000 MHz	788.000 MHz	100.000 kHz	784.17532 MHz	-53.11 dBm	-40.11 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.41209 MHz	19.38 dBm	-10.62 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.82018 MHz	-56.48 dBm	-21.48 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.20629 MHz	-49.39 dBm	-36.39 dB

Date: 6.AUG.2020 22:24:54

Band Edge / Full RB



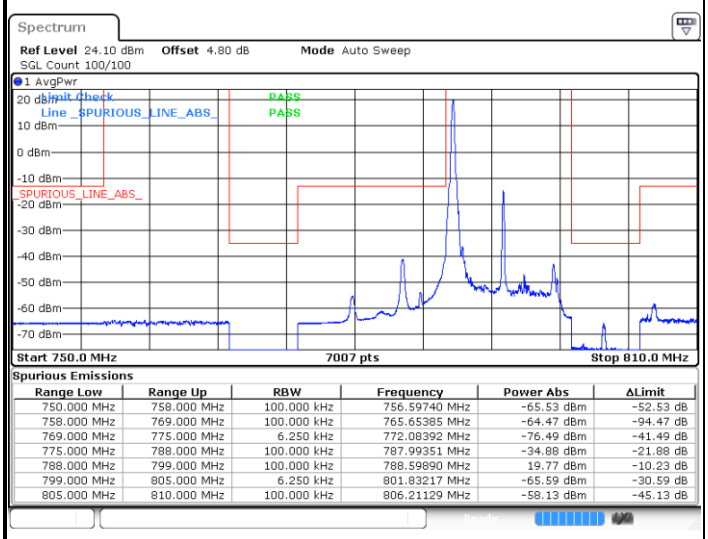
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	755.87013 MHz	-65.55 dBm	-52.55 dB
758.000 MHz	769.000 MHz	100.000 kHz	764.30220 MHz	-64.33 dBm	-94.33 dB
769.000 MHz	775.000 MHz	6.250 kHz	770.32767 MHz	-76.47 dBm	-41.47 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.53 dBm	-21.53 dB
788.000 MHz	799.000 MHz	100.000 kHz	795.00549 MHz	2.97 dBm	-27.03 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.23077 MHz	-53.85 dBm	-18.85 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.05744 MHz	-45.65 dBm	-32.65 dB

Date: 6.AUG.2020 22:20:43

LTE Band 14 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

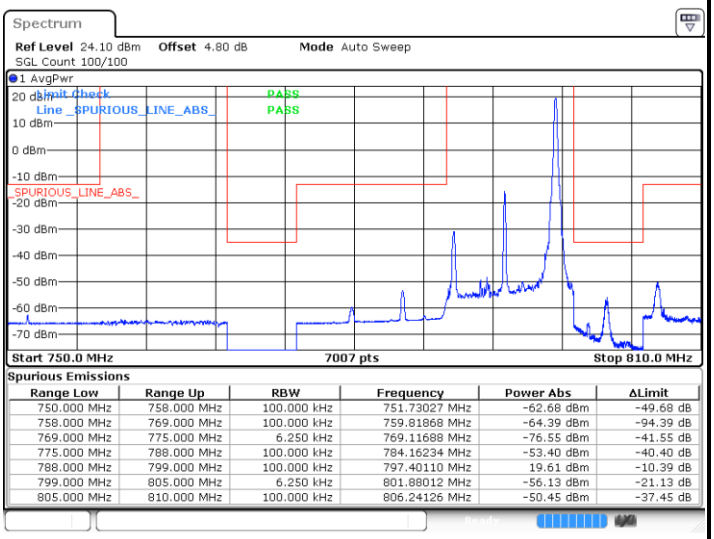


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.59740 MHz	-65.53 dBm	-52.53 dB
758.000 MHz	769.000 MHz	100.000 kHz	765.65385 MHz	-64.47 dBm	-94.47 dB
769.000 MHz	775.000 MHz	6.250 kHz	772.08392 MHz	-76.49 dBm	-41.49 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.88 dBm	-21.88 dB
788.000 MHz	799.000 MHz	100.000 kHz	788.59890 MHz	19.77 dBm	-10.23 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.83217 MHz	-65.59 dBm	-30.59 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.21129 MHz	-58.13 dBm	-45.13 dB

Date: 6.AUG.2020 22:28:06

Highest Band Edge / 1 RB

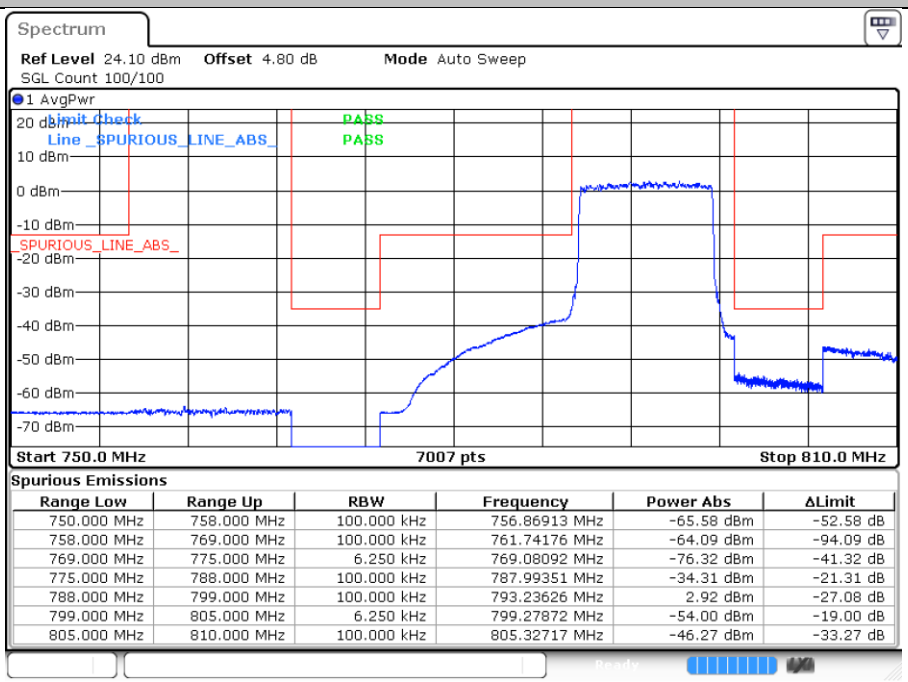


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	751.73027 MHz	-62.68 dBm	-49.68 dB
758.000 MHz	769.000 MHz	100.000 kHz	759.81868 MHz	-64.39 dBm	-94.39 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.11688 MHz	-76.55 dBm	-41.55 dB
775.000 MHz	788.000 MHz	100.000 kHz	784.16234 MHz	-53.40 dBm	-40.40 dB
788.000 MHz	799.000 MHz	100.000 kHz	797.40110 MHz	19.61 dBm	-10.39 dB
799.000 MHz	805.000 MHz	6.250 kHz	801.88012 MHz	-56.13 dBm	-21.13 dB
805.000 MHz	810.000 MHz	100.000 kHz	806.24126 MHz	-50.45 dBm	-37.45 dB

Date: 6.AUG.2020 22:29:09

Band Edge / Full RB



Spurious Emissions

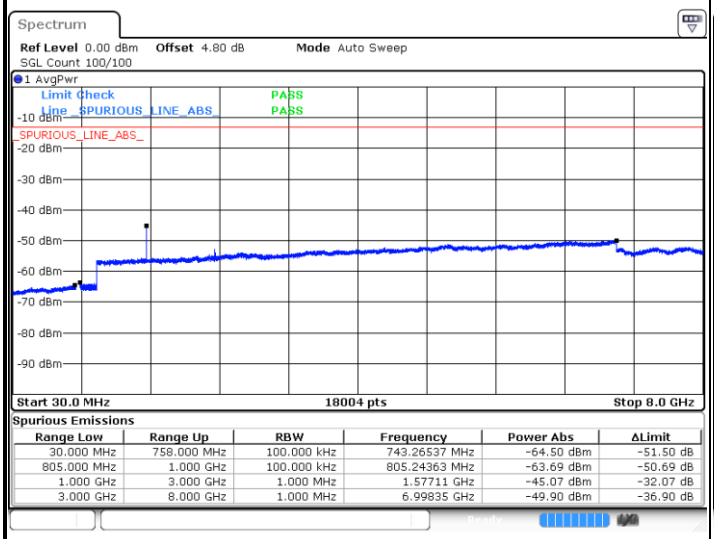
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
750.000 MHz	758.000 MHz	100.000 kHz	756.86913 MHz	-65.58 dBm	-52.58 dB
758.000 MHz	769.000 MHz	100.000 kHz	761.74176 MHz	-64.09 dBm	-94.09 dB
769.000 MHz	775.000 MHz	6.250 kHz	769.08092 MHz	-76.32 dBm	-41.32 dB
775.000 MHz	788.000 MHz	100.000 kHz	787.99351 MHz	-34.31 dBm	-21.31 dB
788.000 MHz	799.000 MHz	100.000 kHz	793.23626 MHz	2.92 dBm	-27.08 dB
799.000 MHz	805.000 MHz	6.250 kHz	799.27872 MHz	-54.00 dBm	-19.00 dB
805.000 MHz	810.000 MHz	100.000 kHz	805.32717 MHz	-46.27 dBm	-33.27 dB

Date: 6.AUG.2020 22:27:03

Conducted Spurious Emission

LTE Band 14 / 5MHz

Lowest Channel / QPSK

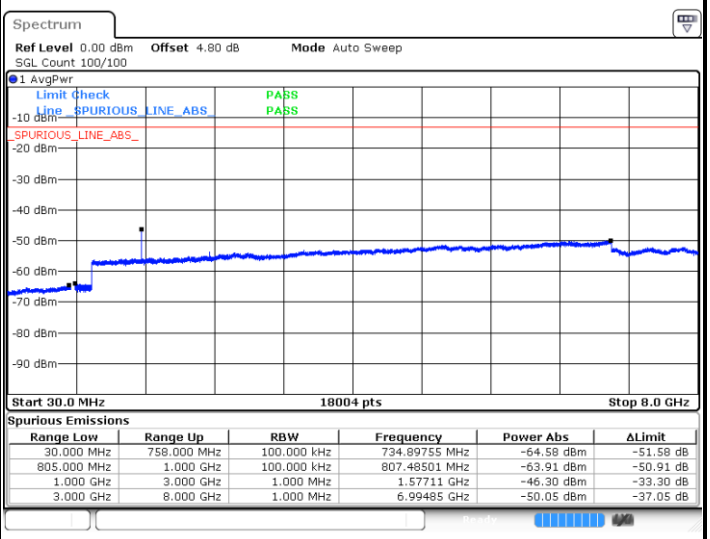


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	743.26537 MHz	-64.50 dBm	-51.50 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.24363 MHz	-63.69 dBm	-50.69 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-45.07 dBm	-32.07 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99835 GHz	-49.90 dBm	-36.90 dB

Date: 7.AUG.2020 01:51:18

Lowest Channel / 16QAM

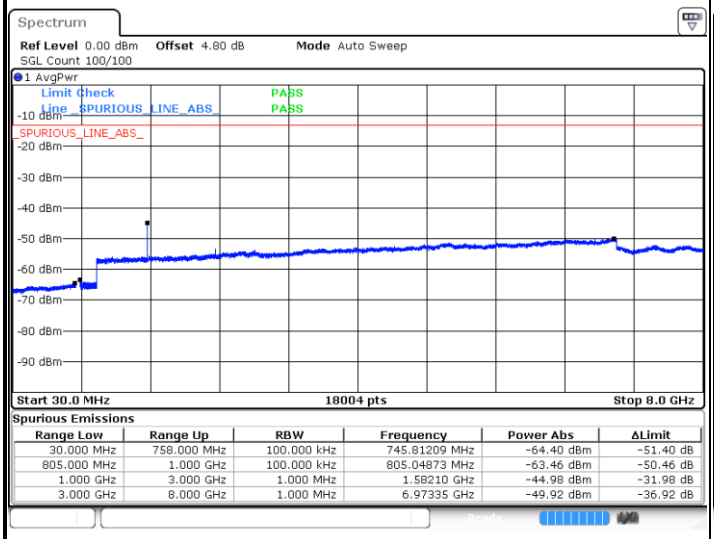


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	734.89755 MHz	-64.58 dBm	-51.58 dB
805.000 MHz	1.000 GHz	100.000 kHz	807.48501 MHz	-63.91 dBm	-50.91 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-46.30 dBm	-33.30 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99485 GHz	-50.05 dBm	-37.05 dB

Date: 6.AUG.2020 22:04:20

Middle Channel / QPSK

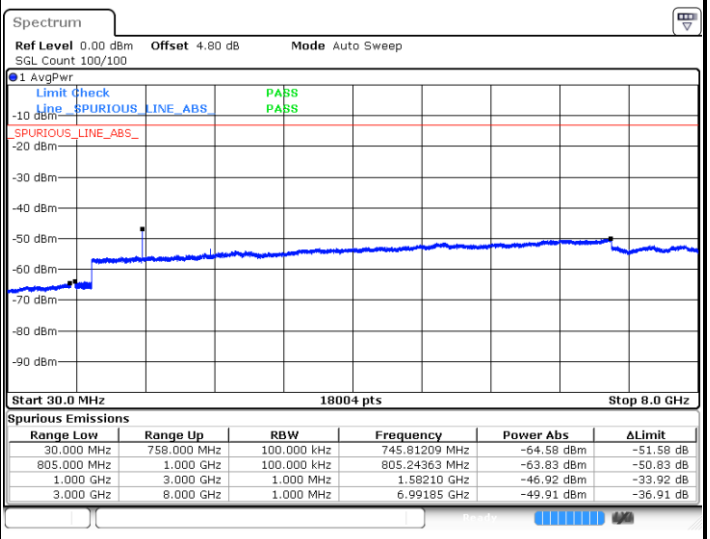


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	745.81209 MHz	-64.40 dBm	-51.40 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.04873 MHz	-63.46 dBm	-50.46 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-44.98 dBm	-31.98 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.97335 GHz	-49.92 dBm	-36.92 dB

Date: 6.AUG.2020 22:05:04

Middle Channel / 16QAM



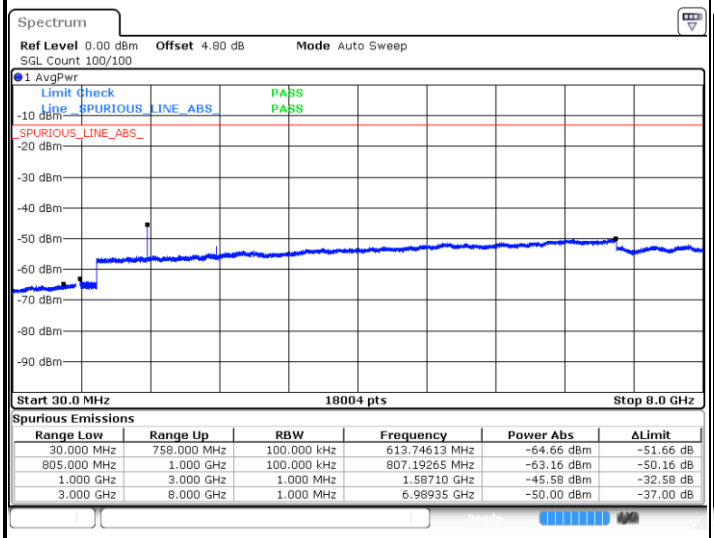
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	745.81209 MHz	-64.58 dBm	-51.58 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.24363 MHz	-63.83 dBm	-50.83 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-46.92 dBm	-33.92 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99185 GHz	-49.91 dBm	-36.91 dB

Date: 6.AUG.2020 22:04:42

LTE Band 14 / 5MHz

Highest Channel / QPSK

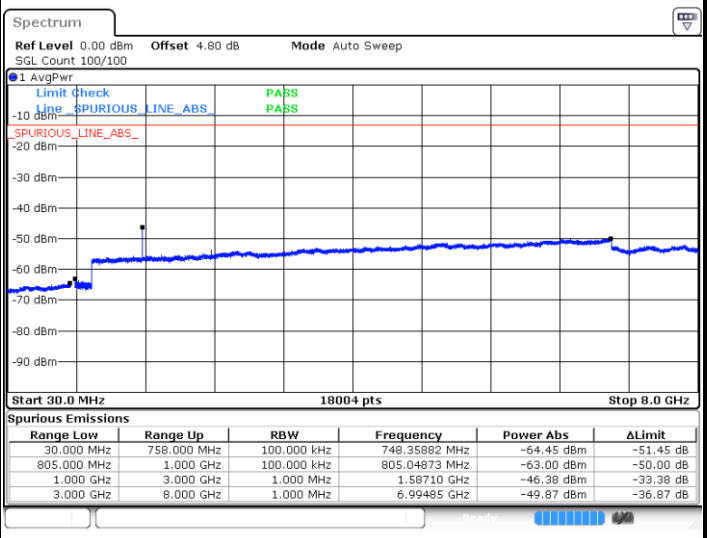


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	613.74613 MHz	-64.66 dBm	-51.66 dB
805.000 MHz	1.000 GHz	100.000 kHz	807.19265 MHz	-63.16 dBm	-50.16 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-45.58 dBm	-32.58 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98935 GHz	-50.00 dBm	-37.00 dB

Date: 6.AUG.2020 22:11:06

Highest Channel / 16QAM



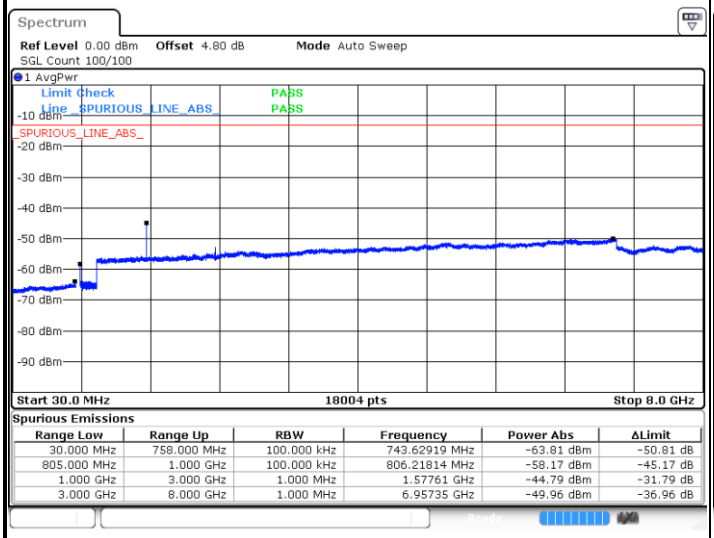
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	748.35882 MHz	-64.45 dBm	-51.45 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.04873 MHz	-63.00 dBm	-50.00 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-46.38 dBm	-33.38 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.99485 GHz	-49.87 dBm	-36.87 dB

Date: 6.AUG.2020 22:11:28

LTE Band 14 / 10MHz

Middle Channel / QPSK

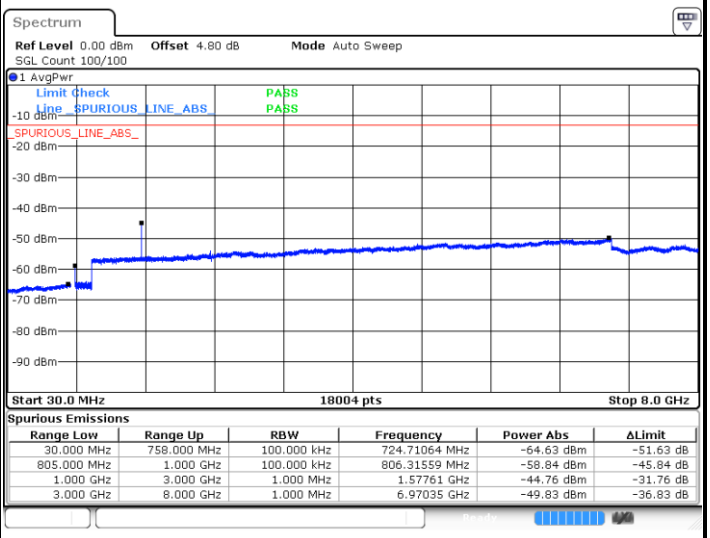


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	743.62919 MHz	-63.81 dBm	-50.81 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.21814 MHz	-58.17 dBm	-45.17 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-44.79 dBm	-31.79 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.95735 GHz	-49.96 dBm	-36.96 dB

Date: 6.AUG.2020 22:25:37

Middle Channel / 16QAM



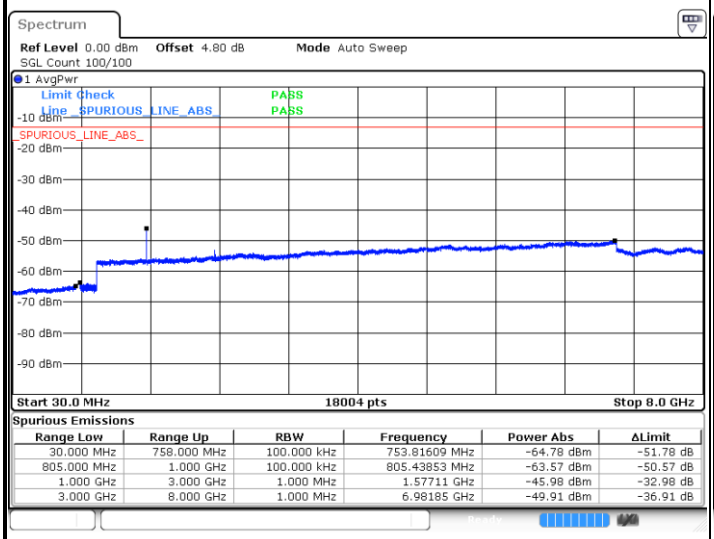
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	724.71064 MHz	-64.63 dBm	-51.63 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.31559 MHz	-58.84 dBm	-45.84 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57761 GHz	-44.76 dBm	-31.76 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.97035 GHz	-49.83 dBm	-36.83 dB

Date: 6.AUG.2020 22:25:15

LTE Band 14 / 5MHz

Lowest Channel / 64QAM

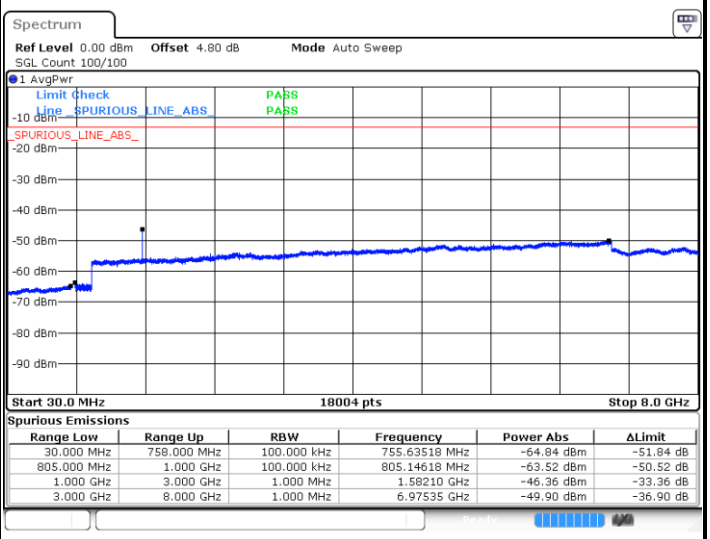


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	753.81609 MHz	-64.78 dBm	-51.78 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.43853 MHz	-63.57 dBm	-50.57 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.57711 GHz	-45.98 dBm	-32.98 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.98185 GHz	-49.91 dBm	-36.91 dB

Date: 6.AUG.2020 22:14:18

Middle Channel / 64QAM

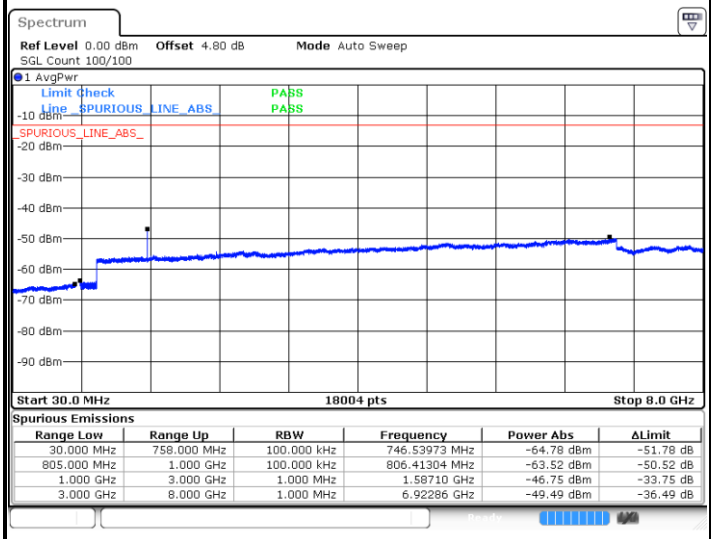


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	755.63518 MHz	-64.84 dBm	-51.84 dB
805.000 MHz	1.000 GHz	100.000 kHz	805.14618 MHz	-63.52 dBm	-50.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58210 GHz	-46.36 dBm	-33.36 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.97535 GHz	-49.90 dBm	-36.90 dB

Date: 6.AUG.2020 22:14:40

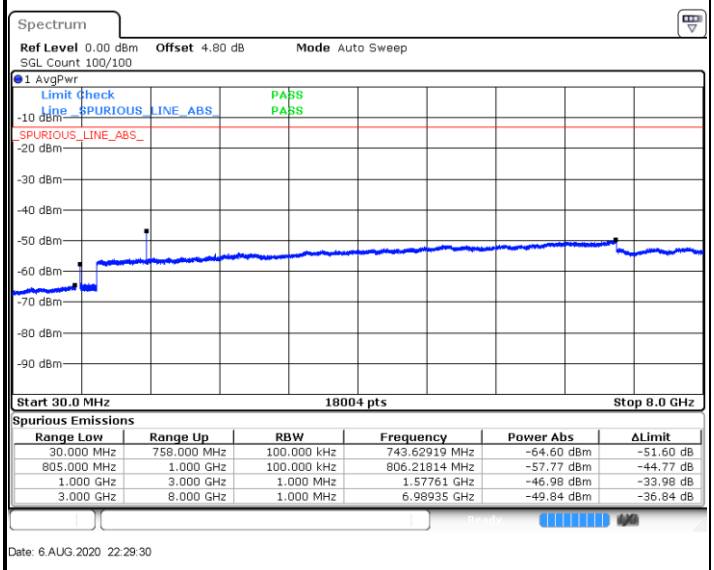
Highest Channel / 64QAM



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	758.000 MHz	100.000 kHz	746.53973 MHz	-64.78 dBm	-51.78 dB
805.000 MHz	1.000 GHz	100.000 kHz	806.41304 MHz	-63.52 dBm	-50.52 dB
1.000 GHz	3.000 GHz	1.000 MHz	1.58710 GHz	-46.75 dBm	-33.75 dB
3.000 GHz	8.000 GHz	1.000 MHz	6.92286 GHz	-49.49 dBm	-36.49 dB

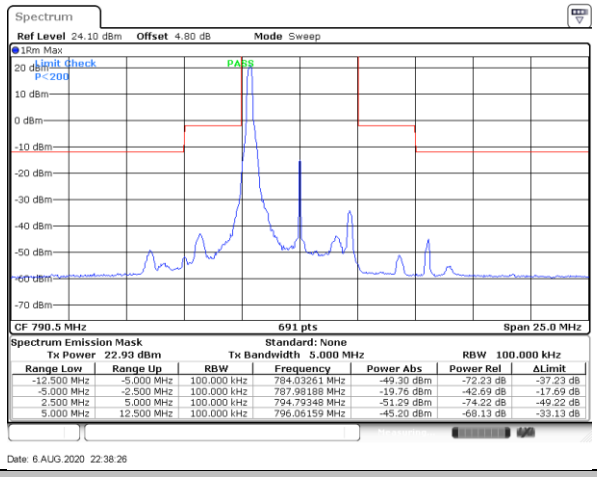
Date: 6.AUG.2020 22:17:52

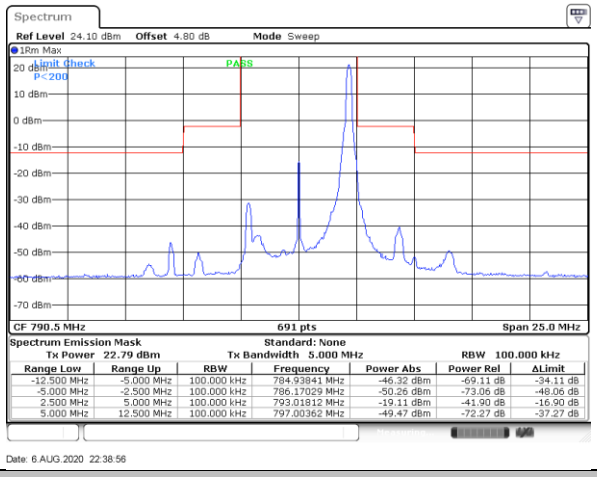
LTE Band 14 / 10MHz	
Middle Channel / 64QAM	
	

Mask

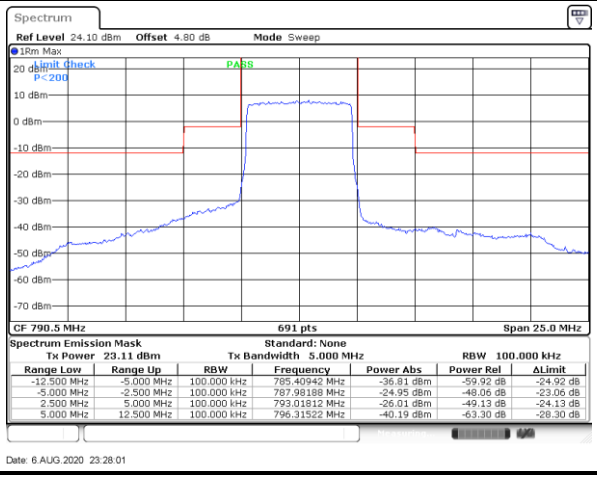
LTE Band 14 / 5MHz / QPSK

Lowest Channel / 1RB



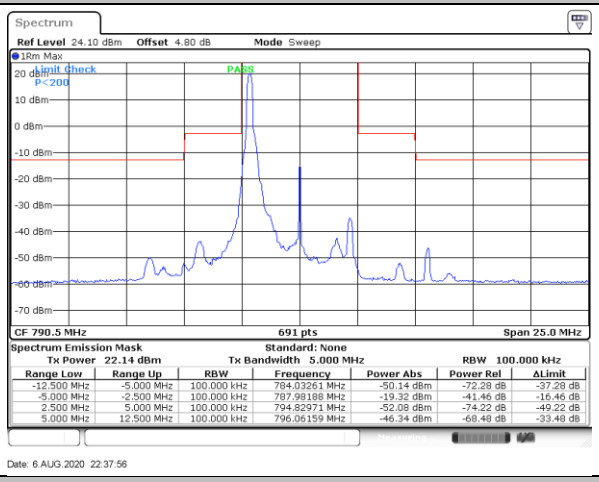


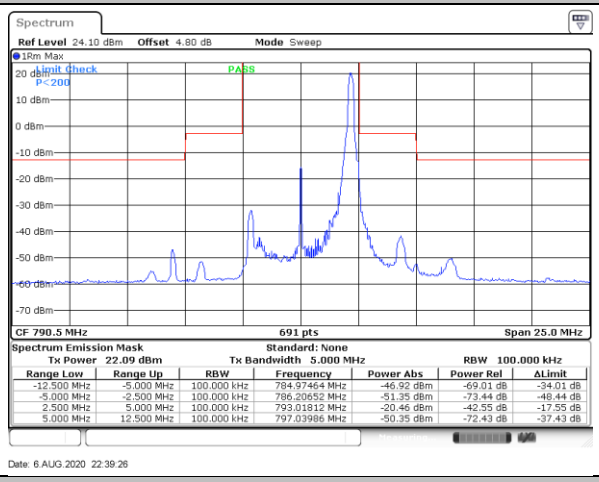
Lowest Channel / Full RB



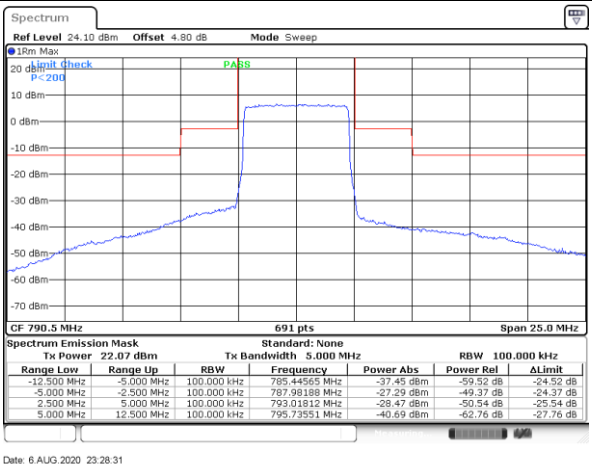
LTE Band 14 / 5MHz / 16QAM

Lowest Channel / 1RB



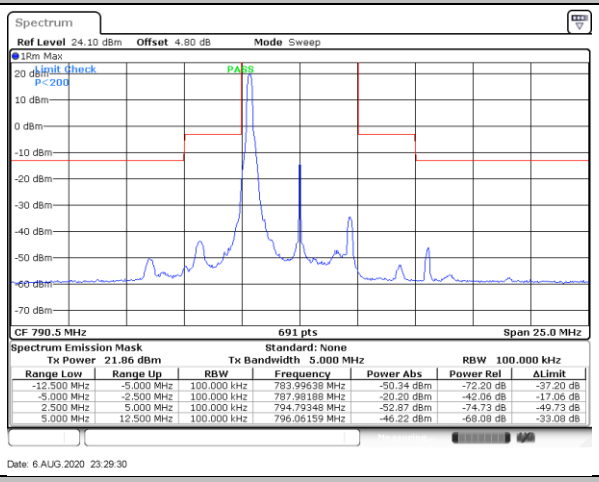


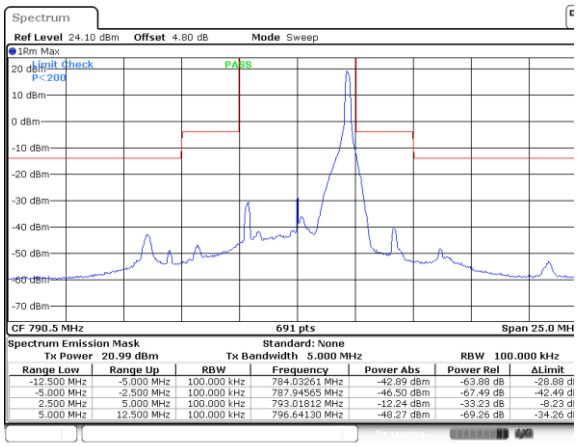
Lowest Channel / Full RB



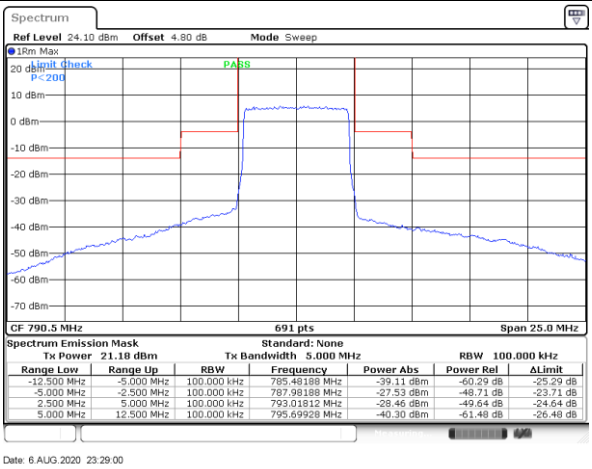
LTE Band 14 / 5MHz / 64QAM

Lowest Channel / 1RB



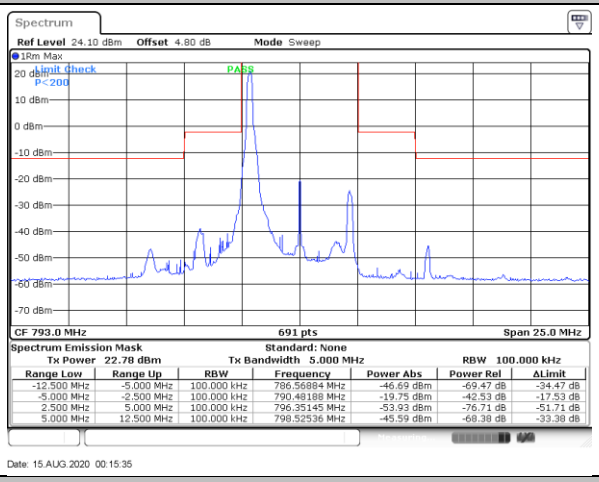


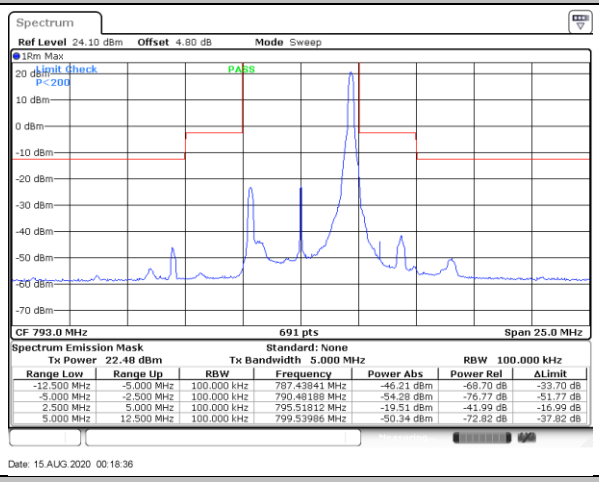
Lowest Channel / Full RB



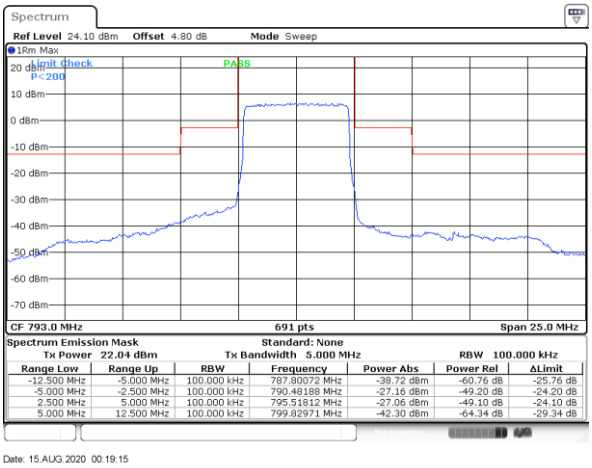
LTE Band 14 / 5MHz / QPSK

Middle Channel / 1RB



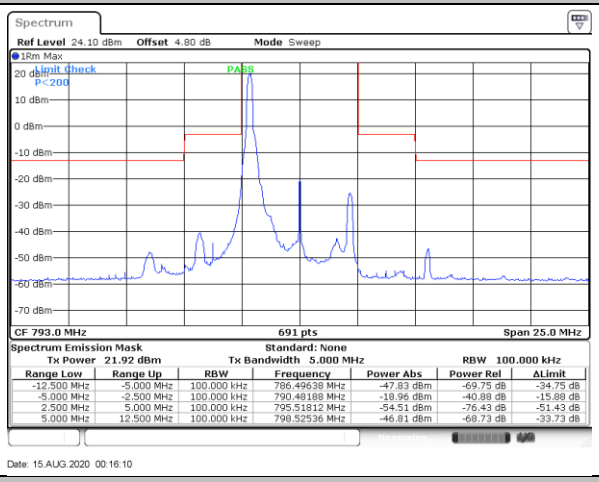


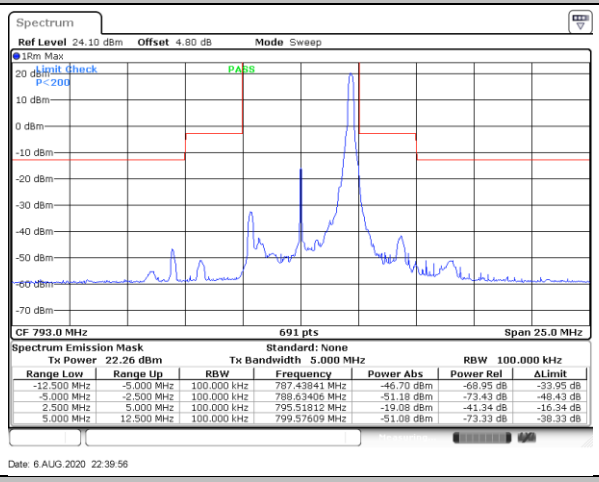
Middle Channel / Full RB



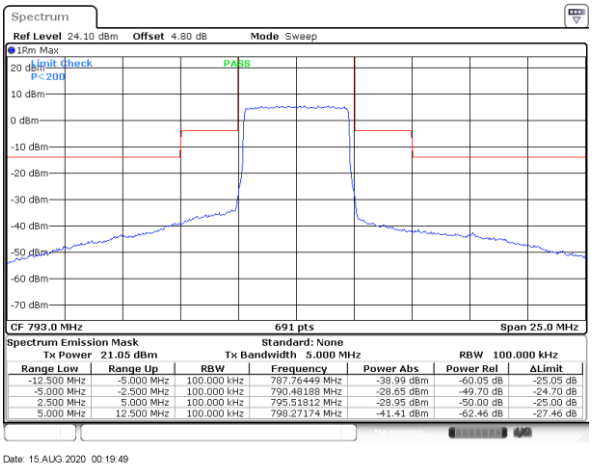
LTE Band 14 / 5MHz / 16QAM

Middle Channel / 1RB



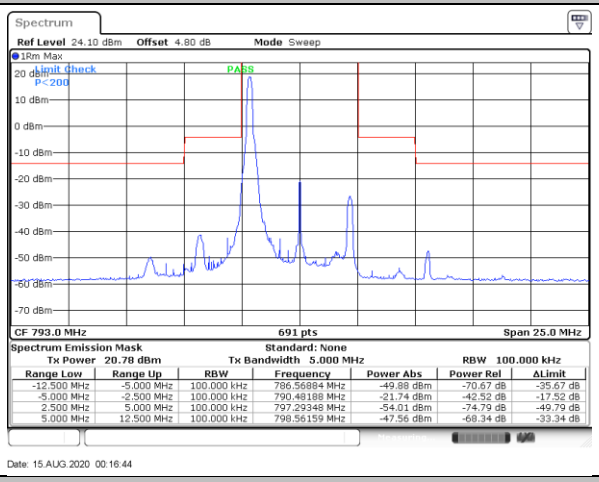


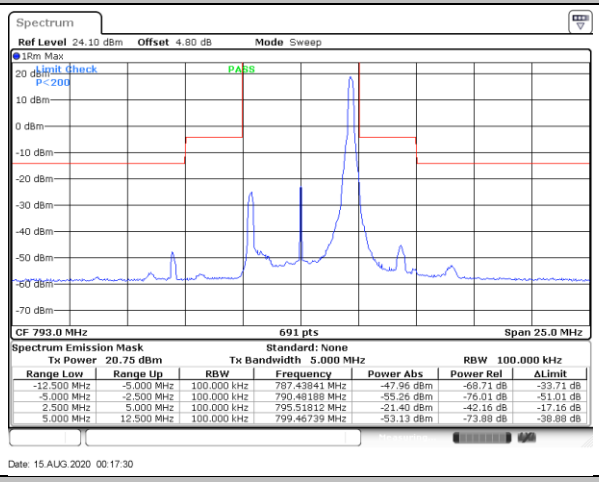
Middle Channel / Full RB



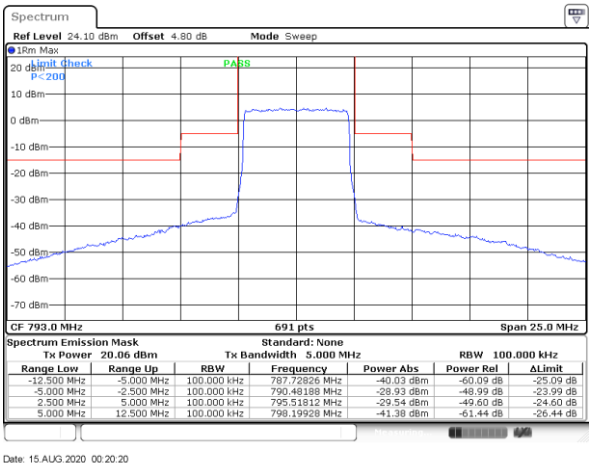
LTE Band 14 / 5MHz / 64QAM

Middle Channel / 1RB



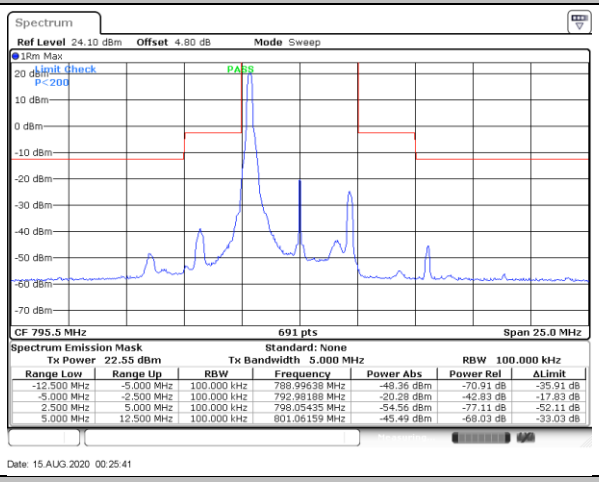


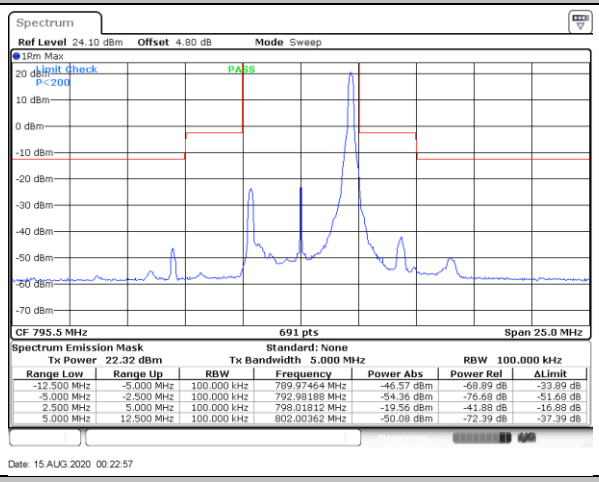
Middle Channel / Full RB



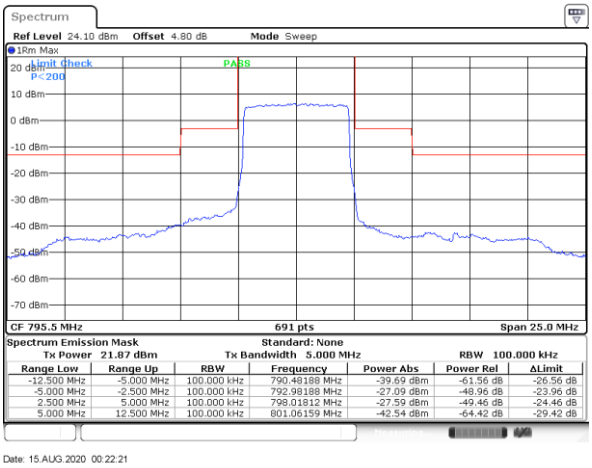
LTE Band 14 / 5MHz / QPSK

Highest Channel / 1RB



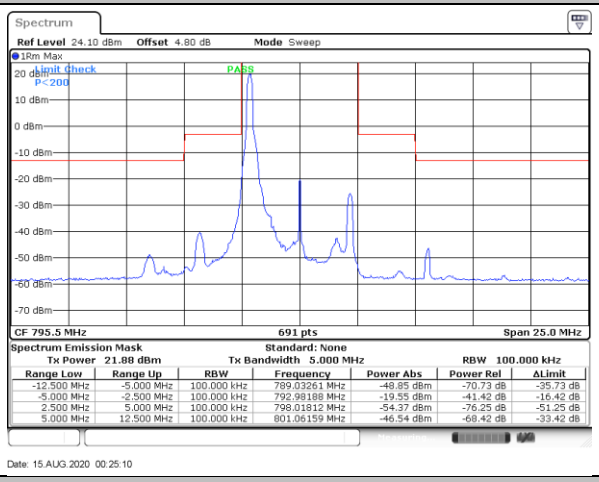


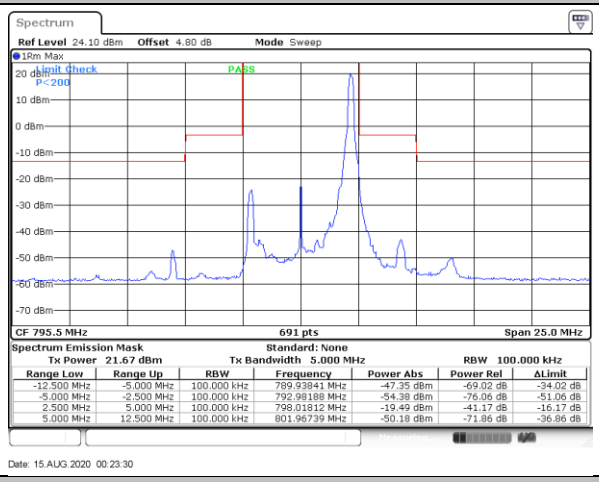
Highest Channel / Full RB



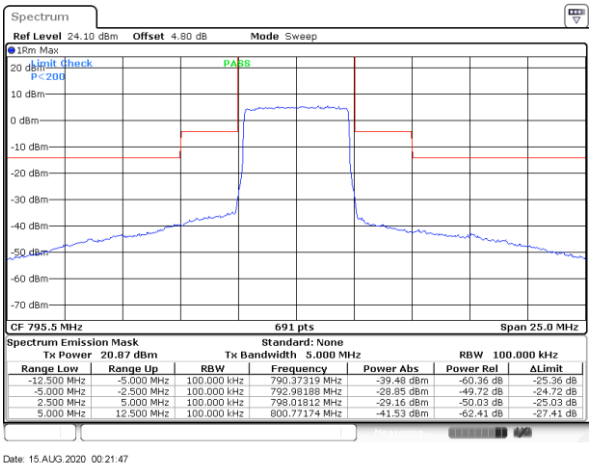
LTE Band 14 / 5MHz / 16QAM

Highest Channel / 1RB



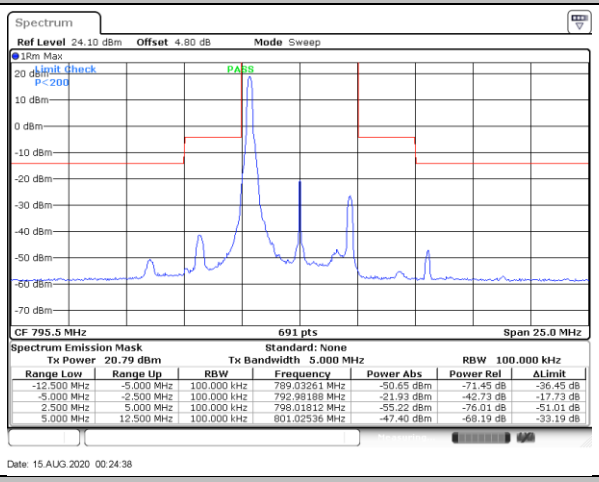


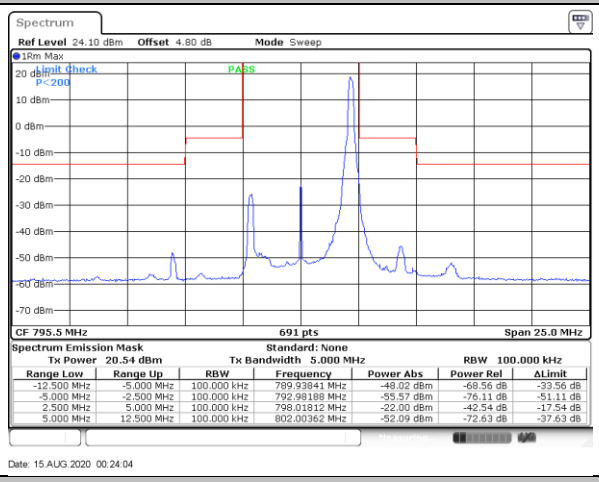
Highest Channel / Full RB



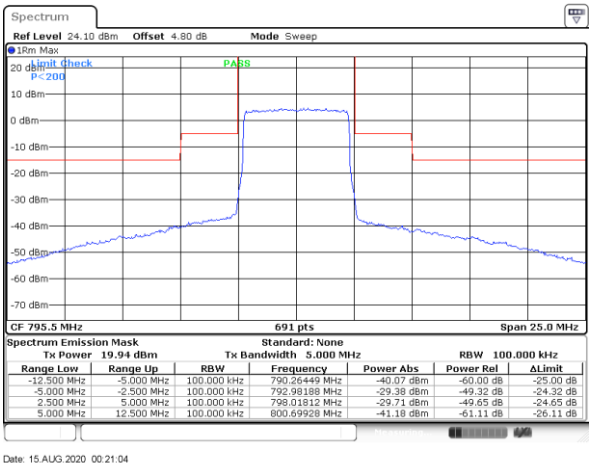
LTE Band 14 / 5MHz / 64QAM

Highest Channel / 1RB



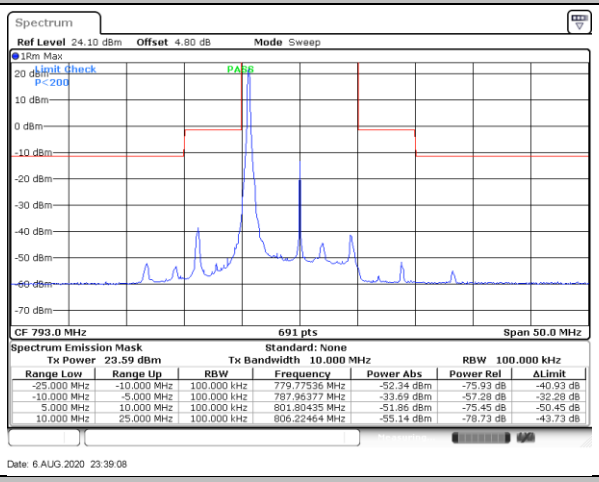


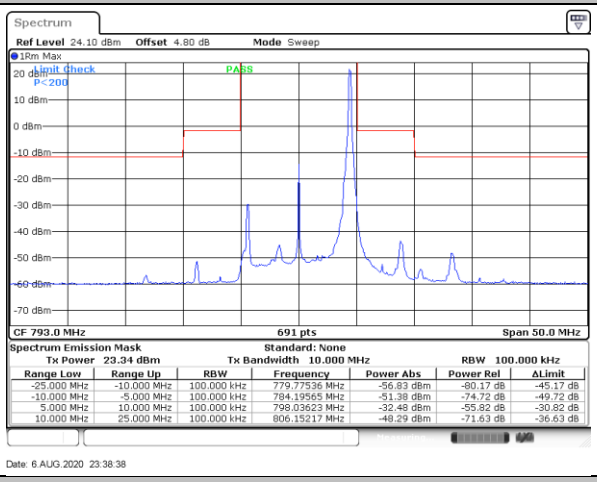
Highest Channel / Full RB



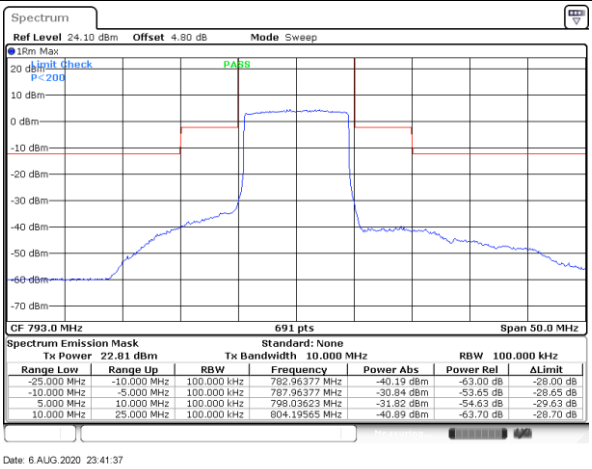
LTE Band 14 / 10MHz / QPSK

Middle Channel / 1RB



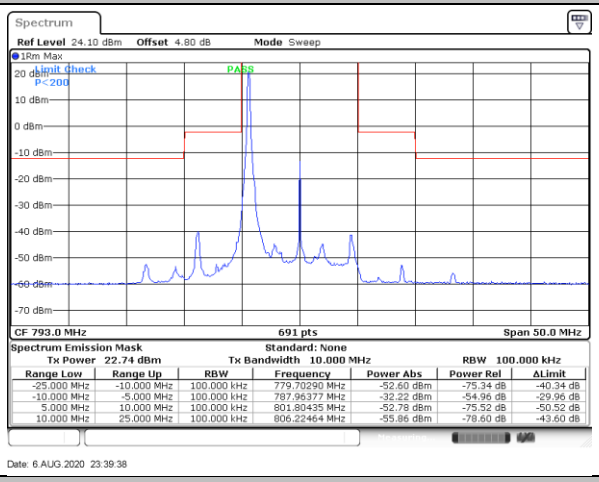


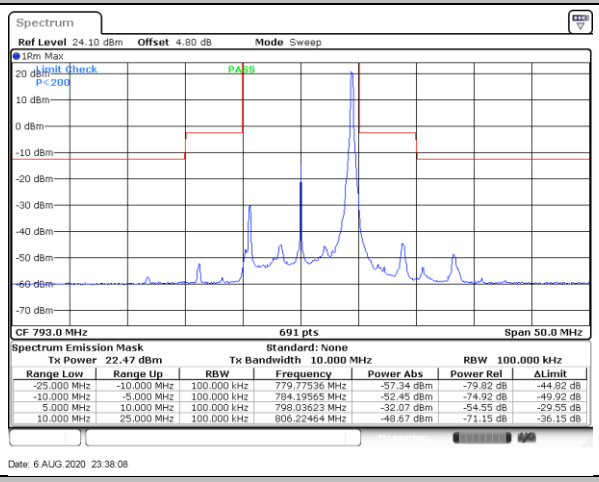
Middle Channel / Full RB



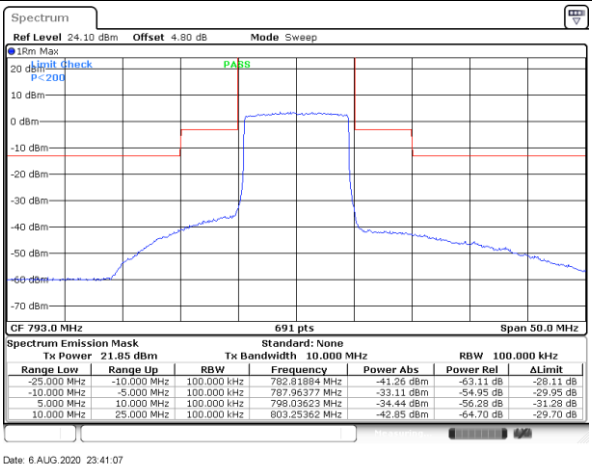
LTE Band 14 / 10MHz / 16QAM

Middle Channel / 1RB



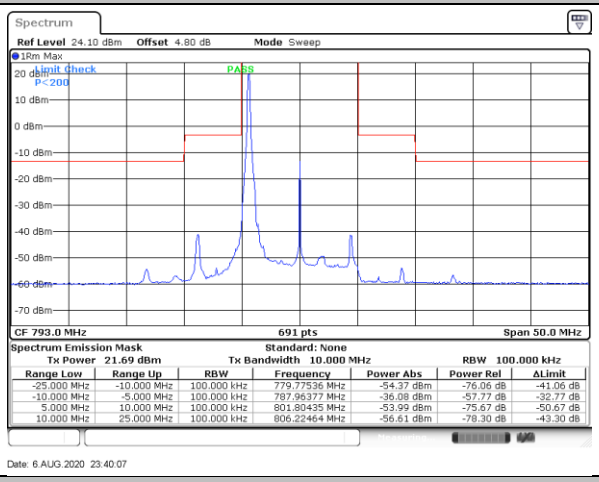


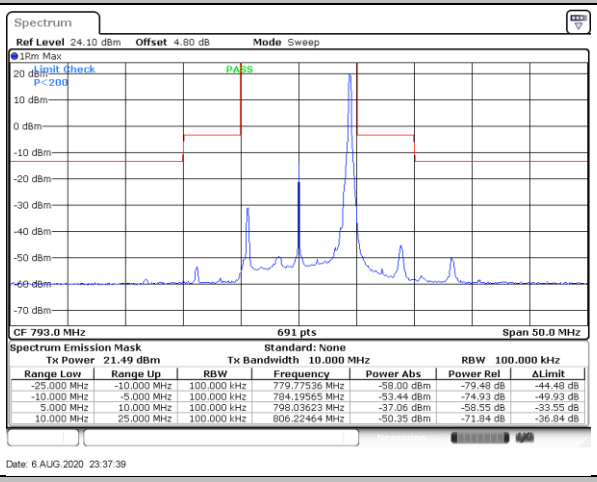
Middle Channel / Full RB



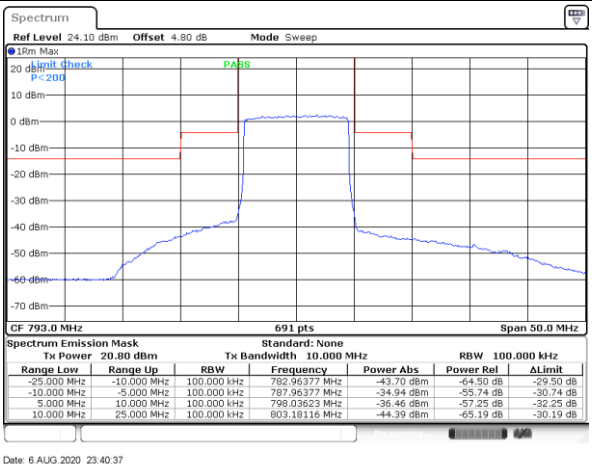
LTE Band 14 / 10MHz / 64QAM

Middle Channel / 1RB





Middle Channel / Full RB



Frequency Stability

Test Conditions		LTE Band 14 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	1.25ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0044	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0026	
0	Normal Voltage	0.0040	
-10	Normal Voltage	0.0011	
-20	Normal Voltage	0.0044	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0026	

Note: Normal Voltage =4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.4 V.

Appendix B. Test Results of Radiated Test

Field Strength of Spurious Radiated

LTE Band 14 / QPSK / RB Size 1 Offset 0								
Bandwidth	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
10MHz	1578	-68.37	-42.15	-26.22	-71.00	1.09	5.87	H
	2366	-66.48	-13	-53.48	-68.88	1.37	5.92	H
	3156	-64.75	-13	-51.75	-68.64	1.64	7.68	H
	1578	-68.01	-42.15	-25.86	-70.64	1.09	5.87	V
	2366	-66.46	-13	-53.46	-68.86	1.37	5.92	V
	3156	-64.75	-13	-51.75	-68.64	1.64	7.68	V
	Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.							
Test Result					PASS			