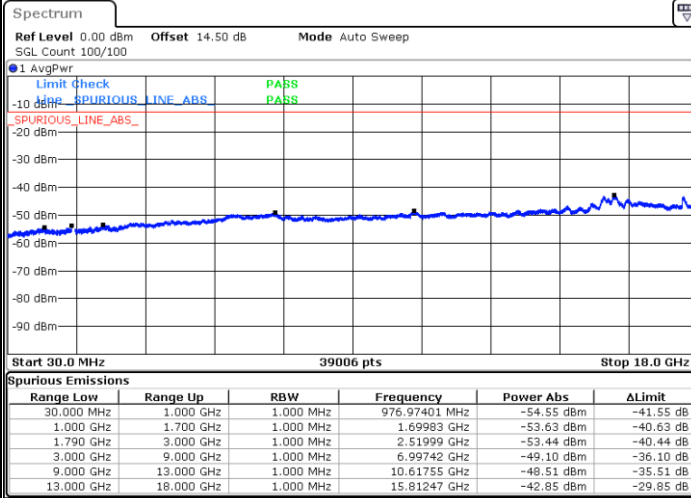




Conducted Spurious Emission

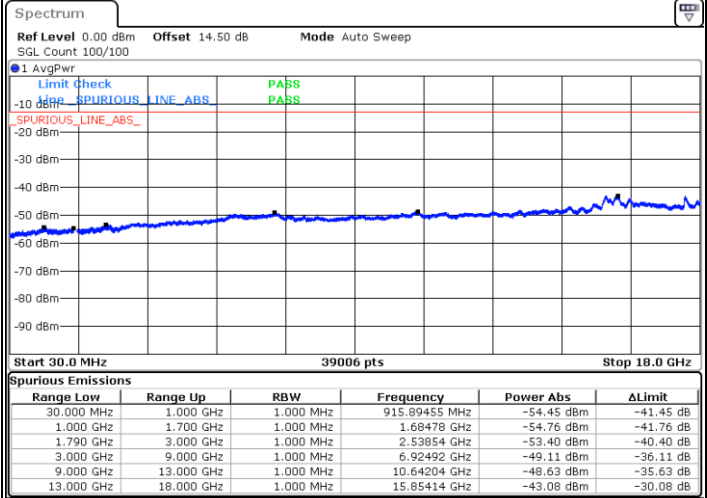
LTE Band 66 / 1.4MHz

Lowest Channel / QPSK



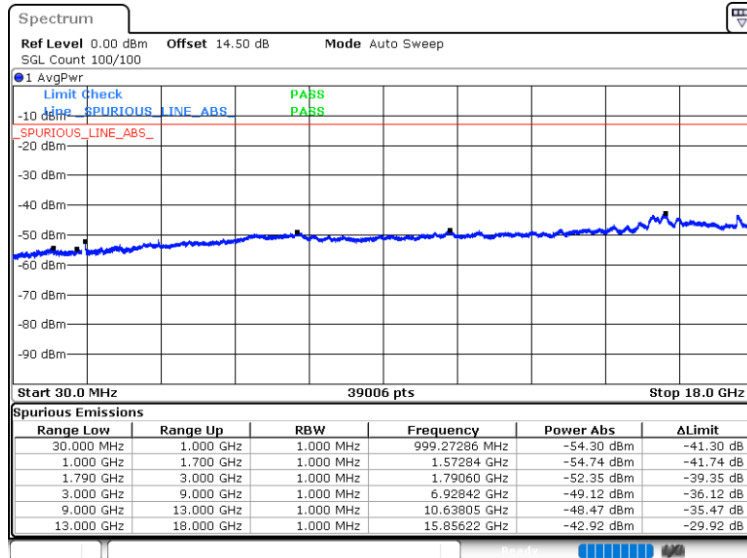
Date: 11.OCT.2024 14:34:25

Middle Channel / QPSK



Date: 11.OCT.2024 14:37:41

Highest Channel / QPSK

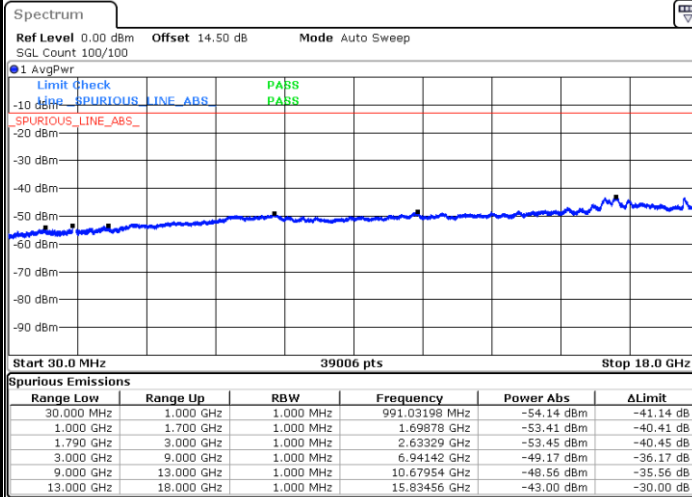


Date: 11.OCT.2024 14:42:15



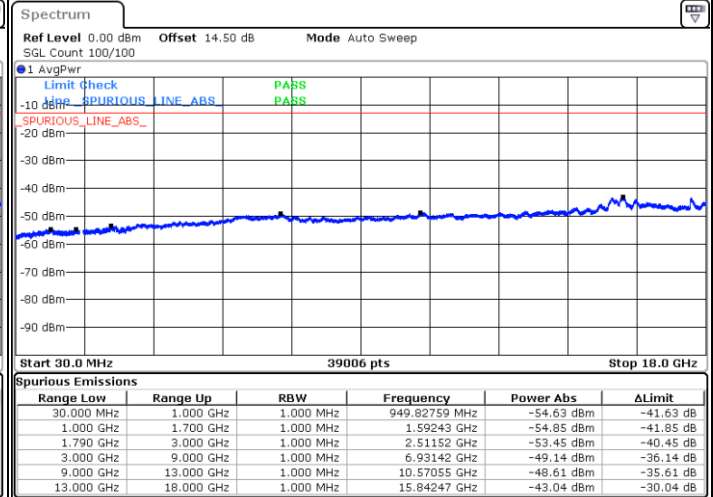
LTE Band 66 / 3MHz

Lowest Channel / QPSK



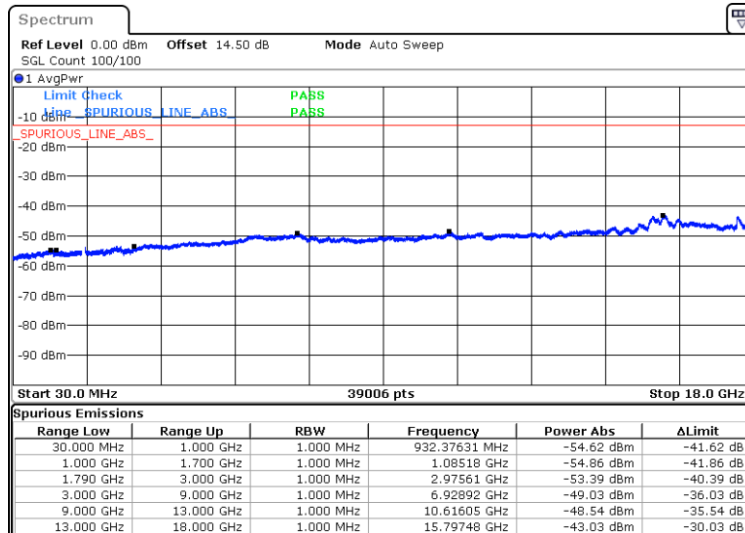
Date: 11.OCT.2024 14:48:49

Middle Channel / QPSK



Date: 11.OCT.2024 14:52:02

Highest Channel / QPSK



Date: 11.OCT.2024 14:58:42

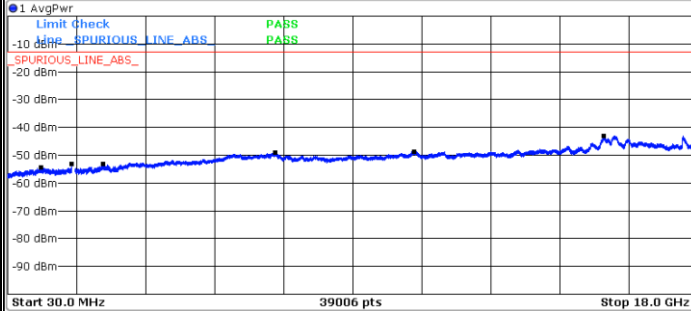


LTE Band 66 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK

Spectrum

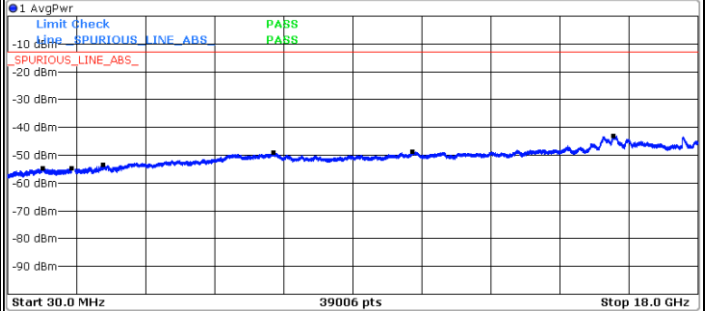
Ref Level 0.00 dBm Offset 14.50 dB Mode Auto Sweep
SGL Count 100/100

Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	895.53473 MHz	-54.53 dBm	-41.53 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69948 GHz	-53.09 dBm	-40.09 dB
1.700 GHz	3.000 GHz	1.000 MHz	2.50507 GHz	-53.20 dBm	-40.20 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.99592 GHz	-49.09 dBm	-36.09 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.60555 GHz	-48.77 dBm	-35.77 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.54958 GHz	-43.02 dBm	-30.02 dB

Date: 11.OCT.2024 15:02:49

Spectrum

Ref Level 0.00 dBm Offset 14.50 dB Mode Auto Sweep
SGL Count 100/100

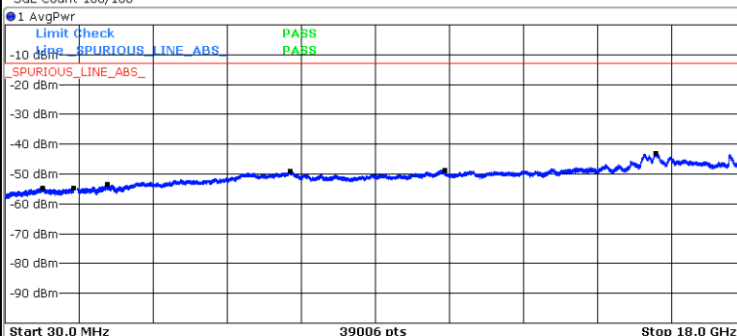
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	940.61719 MHz	-54.64 dBm	-41.64 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69143 GHz	-54.68 dBm	-41.68 dB
1.700 GHz	3.000 GHz	1.000 MHz	2.50790 GHz	-53.59 dBm	-40.59 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93742 GHz	-49.16 dBm	-36.16 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.57055 GHz	-48.63 dBm	-35.63 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.80289 GHz	-43.03 dBm	-30.03 dB

Date: 11.OCT.2024 15:06:09

Highest Channel / QPSK

Spectrum

Ref Level 0.00 dBm Offset 14.50 dB Mode Auto Sweep
SGL Count 100/100

Spurious Emissions

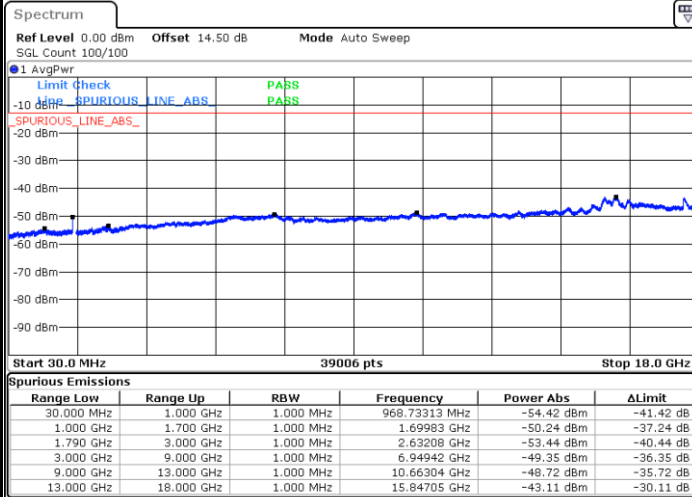
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	946.91904 MHz	-54.74 dBm	-41.74 dB
1.000 GHz	1.700 GHz	1.000 MHz	1.69493 GHz	-54.77 dBm	-41.77 dB
1.700 GHz	3.000 GHz	1.000 MHz	2.51233 GHz	-53.34 dBm	-40.34 dB
3.000 GHz	9.000 GHz	1.000 MHz	6.93842 GHz	-49.20 dBm	-36.20 dB
9.000 GHz	13.000 GHz	1.000 MHz	10.69004 GHz	-48.67 dBm	-35.67 dB
13.000 GHz	18.000 GHz	1.000 MHz	15.82581 GHz	-43.09 dBm	-30.09 dB

Date: 11.OCT.2024 15:13:40



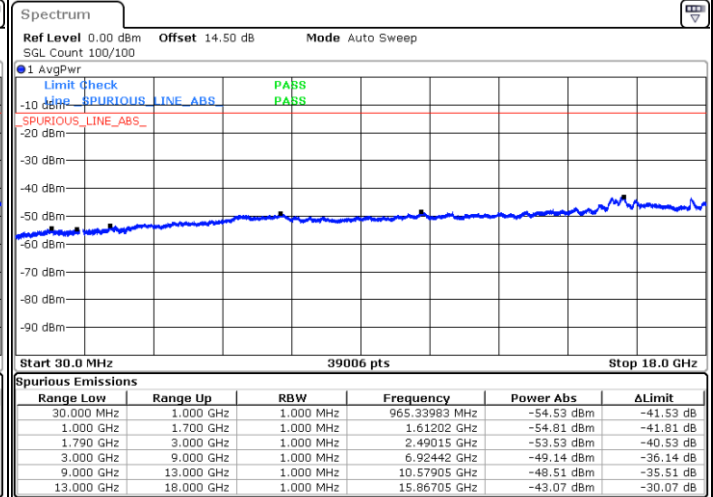
LTE Band 66 / 10MHz

Lowest Channel / QPSK



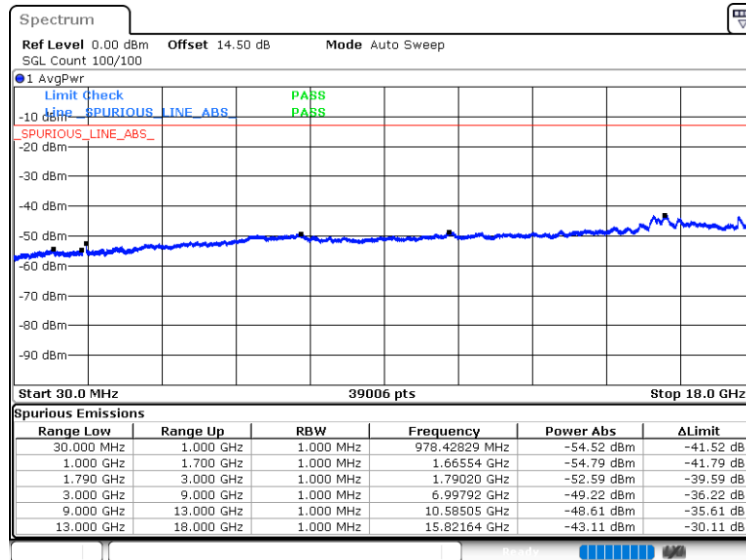
Date: 11.OCT.2024 15:28:12

Middle Channel / QPSK



Date: 11.OCT.2024 15:29:22

Highest Channel / QPSK

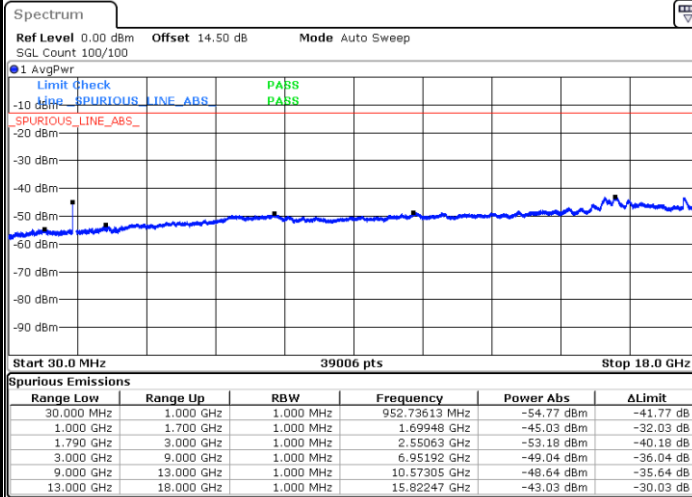


Date: 11.OCT.2024 15:35:53



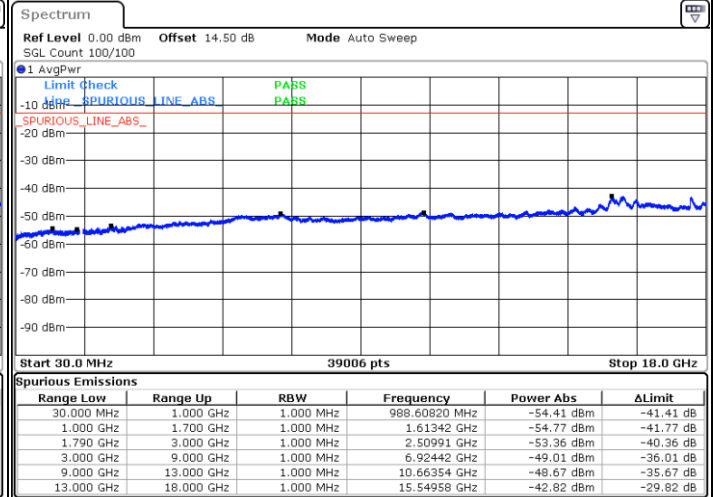
LTE Band 66 / 15MHz

Lowest Channel / QPSK



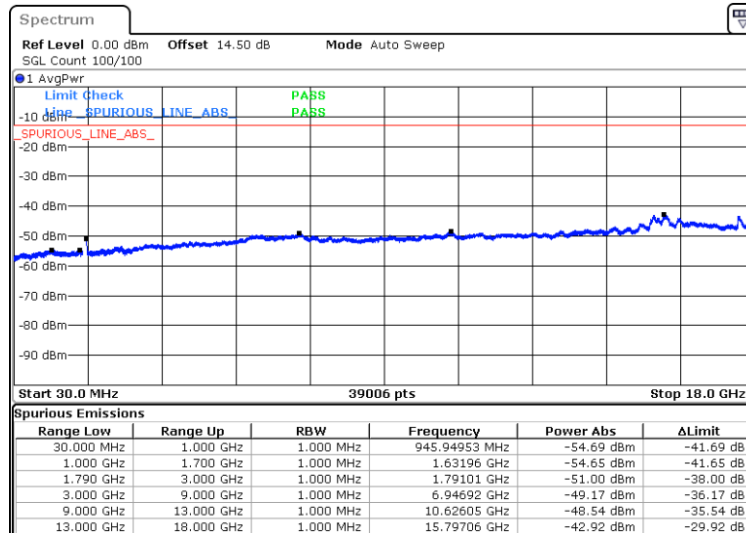
Date: 11.OCT.2024 15:41:47

Middle Channel / QPSK



Date: 11.OCT.2024 15:42:56

Highest Channel / QPSK

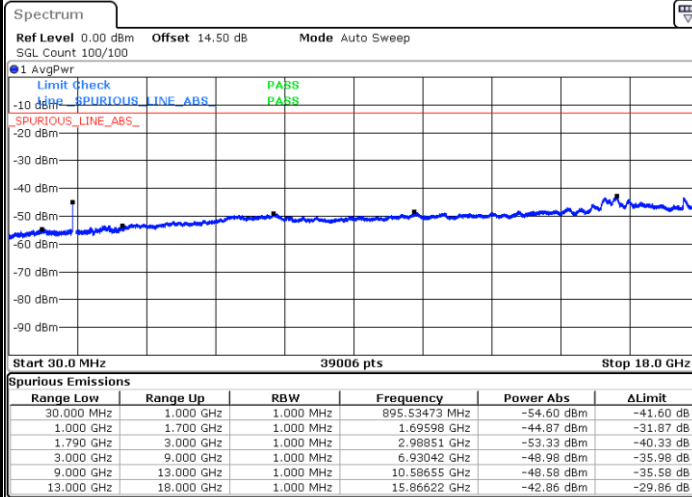


Date: 11.OCT.2024 15:49:28



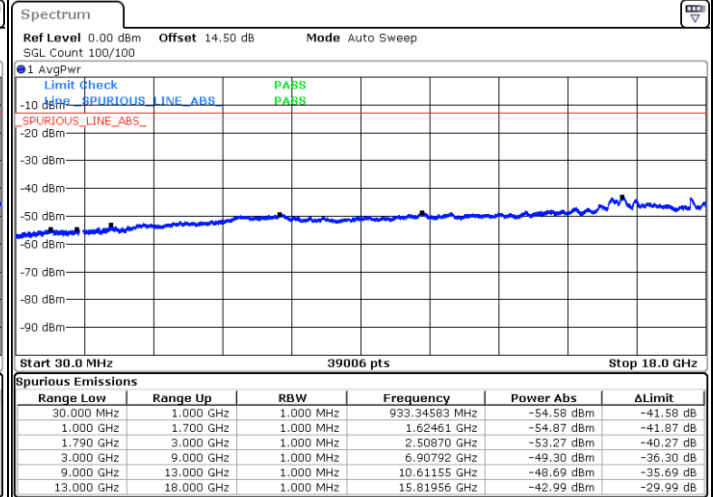
LTE Band 66 / 20MHz

Lowest Channel / QPSK



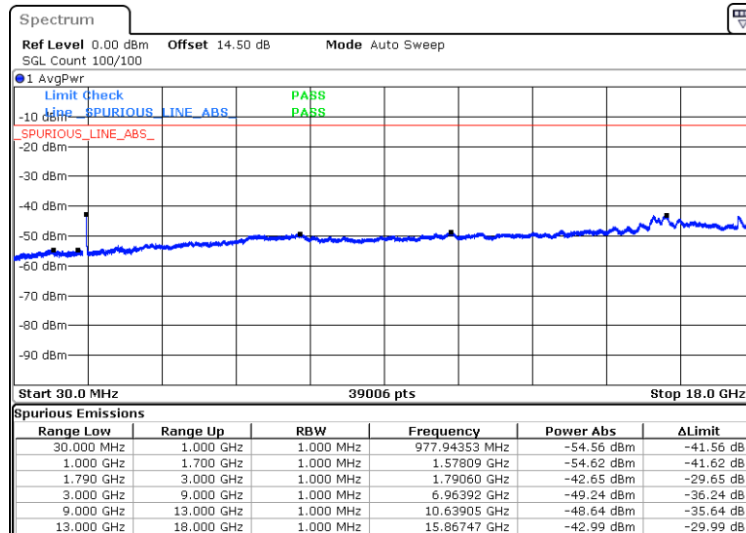
Date: 11.OCT.2024 15:55:26

Middle Channel / QPSK



Date: 11.OCT.2024 15:56:36

Highest Channel / QPSK



Date: 11.OCT.2024 16:04:32

Frequency Stability

Test Conditions		LTE Band 66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0015	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage = 3.91 V. ; Minimum Voltage = 3.6 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	HuaCong Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

LTE Band 2 / 20MHz / QPSK / Ant2									
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	3742	-60.98	-13	-47.98	-79.56	-67.73	5.85	12.60	H
	5613	-59.05	-13	-46.05	-81.44	-64.85	7.30	13.10	H
	7484	-55.09	-13	-42.09	-82.02	-58.24	8.35	11.50	H
	3742	-60.90	-13	-47.90	-79.4	-67.65	5.85	12.60	V
	5613	-59.70	-13	-46.70	-82.28	-65.50	7.30	13.10	V
	7484	-55.27	-13	-42.27	-82.19	-58.42	8.35	11.50	V

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

LTE Band 26 / 15MHz / QPSK / Ant1									
Channel	Frequency (MHz)	ERP (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	1649.5	-66.17	-13	-53.17	-76.09	-69.42	4.00	9.40	H
	2474.25	-62.97	-13	-49.97	-77.44	-66.54	4.88	10.60	H
	3299	-61.94	-13	-48.94	-78.44	-66.87	5.52	12.60	H
	1649.5	-66.30	-13	-53.30	-75.96	-69.55	4.00	9.40	V
	2474.25	-62.98	-13	-49.98	-77.42	-66.55	4.88	10.60	V
	3299	-61.81	-13	-48.81	-78.12	-66.74	5.52	12.60	V

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

LTE Band 66 / 20MHz / QPSK / Ant2									
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	3472	-61.49	-13	-48.49	-78.39	-68.34	5.65	12.50	H
	5208	-60.43	-13	-47.43	-82.16	-66.10	7.13	12.80	H
	6944	-56.27	-13	-43.27	-82.19	-59.67	8.40	11.80	H
	3472	-61.79	-13	-48.79	-78.71	-68.64	5.65	12.50	V
	5208	-60.27	-13	-47.27	-82.25	-65.94	7.13	12.80	V
	6944	-55.75	-13	-42.75	-82.14	-59.15	8.40	11.80	V

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