





Frequency Stability

Test Conditions		LTE Band 26 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0093	
30	Normal Voltage	0.0106	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0029	
0	Normal Voltage	0.0084	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0112	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0103	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Test Conditions		LTE Band 26 (QPSK) / Low Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 15MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0100	PASS
40	Normal Voltage	0.0082	
30	Normal Voltage	0.0094	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0100	
0	Normal Voltage	0.0121	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0022	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0116	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of ERP/EIRP and Radiated Test

ERP/EIRP

LTE Band 26 / 10MHz (Average) (GT - LC = -4.92 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK						
Middle		1	25	23.86	0.2430	16.79	0.0477
Highest							
Lowest	16QAM						
Middle		1	49	23.94	0.2475	16.87	0.0486
Highest							
Lowest	64QAM						
Middle		1	49	23.16	0.2068	16.09	0.0406
Highest							
Limit	ERP < 100W			Result		PASS	

LTE Band 26 / 15MHz (Average) (GT - LC = -4.92 dB)							
Channel	Mode	RB		Conducted		ERP	
		Size	Offset	Power (dBm)	Power (Watts)	ERP(dBm)	ERP(W)
Lowest	QPSK	36	0	23.706	0.2347	16.636	0.0461
Middle							
Highest							
Lowest	16QAM	1	0	23.936	0.2475	16.866	0.0486
Middle							
Highest							
Lowest	64QAM	1	37	23.796	0.2397	16.726	0.0471
Middle							
Highest							
Limit	ERP < 100W			Result		PASS	

**Radiated Spurious Emission****LTE Band 26(Part 90S)**

LTE Band 26 / 1.4MHz / QPSK									
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)
Highest	1648	-46.39	-13	-33.39	-56.94	-53.34	0.53	9.63	H
	2472	-61.38	-13	-48.38	-75.13	-69.36	0.65	10.78	H
	4944	-54.53	-13	-41.53	-75.39	-63.92	0.66	12.20	H
									H
									H
									H
									H
	1648	-45.17	-13	-32.17	-55.43	-52.12	0.53	9.63	V
	2472	-60.04	-13	-47.04	-74.39	-68.02	0.65	10.78	V
	4944	-56.00	-13	-43.00	-76.98	-65.39	0.66	12.20	V
									V
									V
									V
									V

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

LTE Band 26 / 3MHz / QPSK									
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)
Highest	1648	-48.98	-13	-35.98	-59.53	-55.93	0.53	9.63	H
	2472	-61.33	-13	-48.33	-75.1	-69.31	0.65	10.78	H
	3296	-59.66	-13	-46.66	-76.06	-68.74	0.76	11.99	H
									H
									H
									H
									H
	1648	-46.36	-13	-33.36	-56.62	-53.31	0.53	9.63	V
	2472	-60.95	-13	-47.95	-75.2	-68.93	0.65	10.78	V
	3296	-59.73	-13	-46.73	-76.08	-68.81	0.76	11.99	V
									V
									V
									V
									V



LTE Band 26 / 5MHz / QPSK									
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)
Highest	1640	-51.78	-13	-38.78	-62.36	-58.71	0.52	9.61	H
	2460	-61.55	-13	-48.55	-75.35	-69.52	0.65	10.77	H
	3280	-59.72	-13	-46.72	-76.06	-68.76	0.75	11.94	H
									H
									H
	1640	-49.35	-13	-36.35	-59.6	-56.28	0.52	9.61	V
	2460	-60.24	-13	-47.24	-74.6	-68.21	0.65	10.77	V
	3280	-59.84	-13	-46.84	-76.2	-68.88	0.75	11.94	V
									V
									V

LTE Band 26 / 10MHz / QPSK									
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	1645	-53.27	-13	-40.27	-63.84	-60.21	0.53	9.62	H
	2464	-61.44	-13	-48.44	-75.24	-69.41	0.65	10.77	H
	3288	-59.52	-13	-46.52	-75.92	-68.58	0.76	11.96	H
									H
									H
	1645	-49.77	-13	-36.77	-60.02	-56.71	0.53	9.62	V
	2464	-61.05	-13	-48.05	-75.42	-69.02	0.65	10.77	V
	3288	-59.52	-13	-46.52	-75.92	-68.58	0.76	11.96	V
									V
									V

LTE Band 26 / 15MHz / QPSK									
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)
Lowest	1640	-56.92	-13	-43.92	-67.49	-63.85	0.52	9.61	H
	2460	-60.94	-13	-47.94	-74.74	-68.91	0.65	10.77	H
	3280	-59.30	-13	-46.30	-75.66	-68.34	0.75	11.94	H
									H
									H
	1640	-55.14	-13	-42.14	-65.42	-62.07	0.52	9.61	V
	2460	-60.79	-13	-47.79	-75.2	-68.76	0.65	10.77	V
	3280	-59.27	-13	-46.27	-75.67	-68.31	0.75	11.94	V
									V
									V