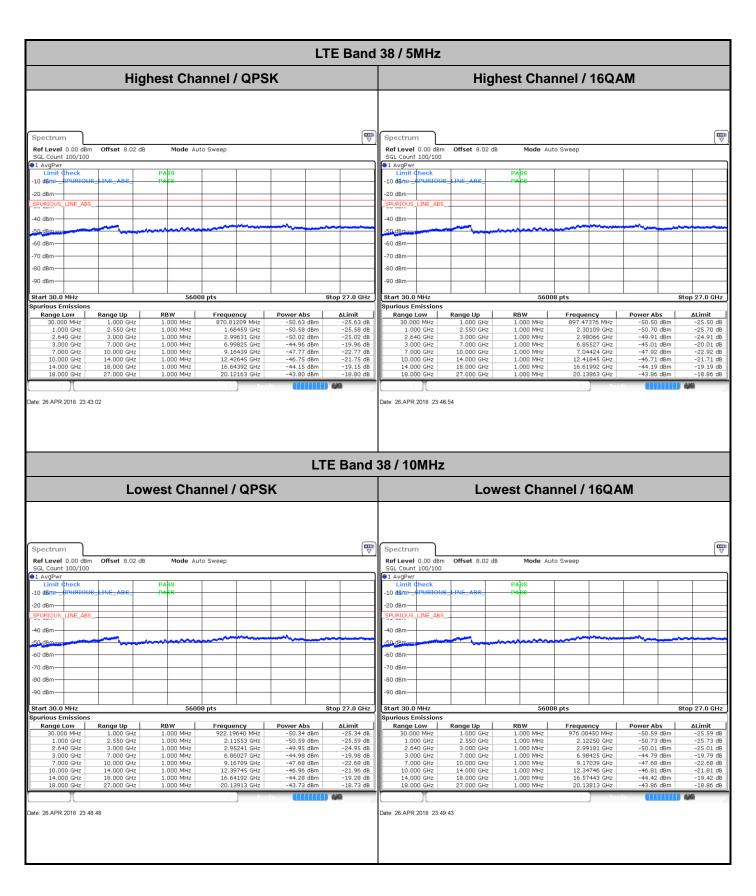


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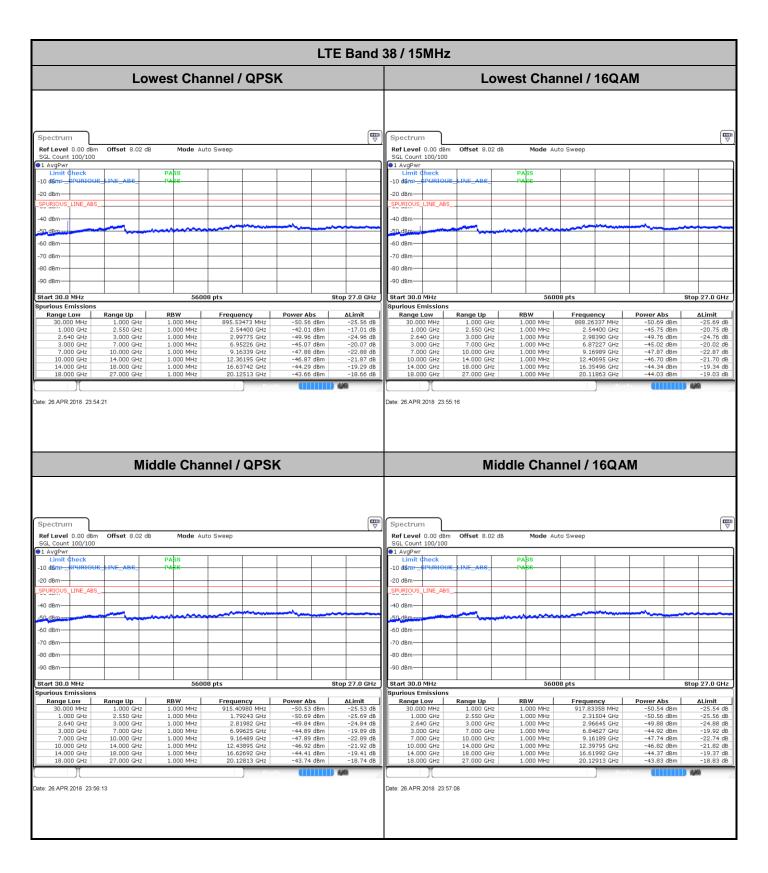
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LTE Band 38 / 10MHz Middle Channel / QPSK Middle Channel / 16QAM Spectrum Spectrum Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr -20 dBm 20 dBm -60 dBm -60 dBm 70 dBr 80 dBm -80 dBm 90 dBm 90 dBm-Start 30.0 MH; 560 Stop 27.0 GHz Start 30.0 MHz 56008 Stop 27.0 GHz rious Emissio Spurious Emissions 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Frequency 685.63468 MHz 2.12366 GHz 2.96573 GHz 6.87977 GHz 9.15889 GHz 12.39595 GHz -50.49 dBm -50.71 dBm -49.84 dBm Frequency 986.18441 MHz 2.46225 GHz 2.98894 GHz Range Low 30,000 MH Range Up ∆Limit ΔLimit
-25.64 dB
-25.48 dB
-24.87 dB
-19.93 dB
-22.61 dB
-21.94 dB
-19.43 dB
-18.81 dB 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 1.000 MHz -50.64 dBm -50.48 dBm -49.87 dBm 1.000 GHZ 2.550 GHZ 3.000 GHZ 2.640 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 6.97075 GHz 9.16589 GHz 12.42645 GHz 16.62942 GHz 7.000 GHz 10.000 GHz 14.000 GHz .000 GHz .000 MH 10.000 GHz .000 MHz ate: 26.APR.2018 23:50:38 ate: 26.APR.2018 23:51:34 **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr 1 imit Check 1 AvgPı 20 dBm -20 dBm SPURIOU 40 dBm 40 dBm 60 dBm 60 dBm 70 dBm -70 dBm 80 dBm -80 dBm 90 dBm -90 dBm Stop 27.0 GHz Start 30.0 MHz Stop 27.0 GHz Start 30.0 MHz 56008 pts 56008 pts rious Emissio Spurious Emissions Frequency 981.82159 MHz 2.31581 GHz 2.96699 GHz 6.91676 GHz 9.17239 GHz 11.91101 GHz 16.61842 GHz 20.13463 GHz Range Low ange Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Range Low 30.000 MH 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz 07.65367 MHz 1.65955 GHz 2.86876 GHz 6.90926 GHz 9.17089 GHz 12.39295 GHz 16.35646 GHz 20.13363 GHz ite: 26.APR.2018 23:52:29 ate: 26.APR.2018 23:53:25

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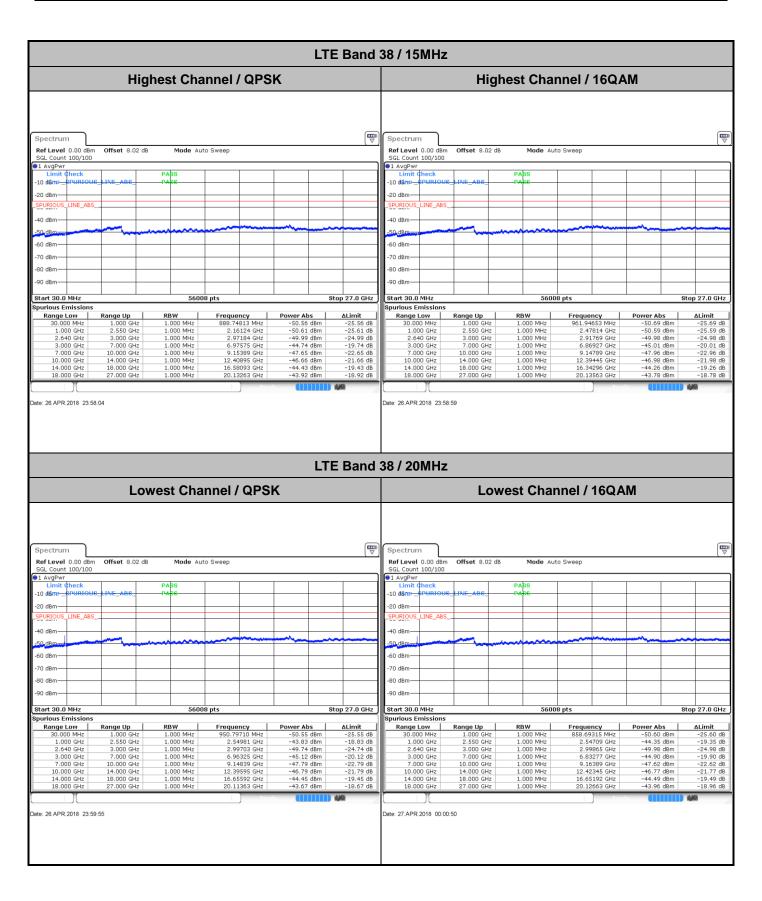
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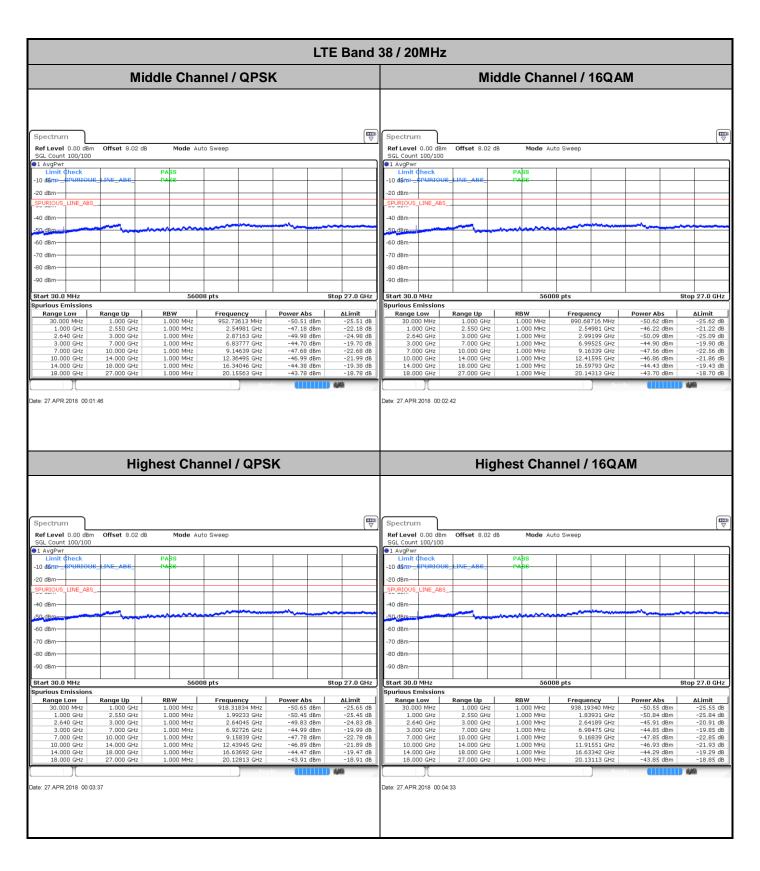
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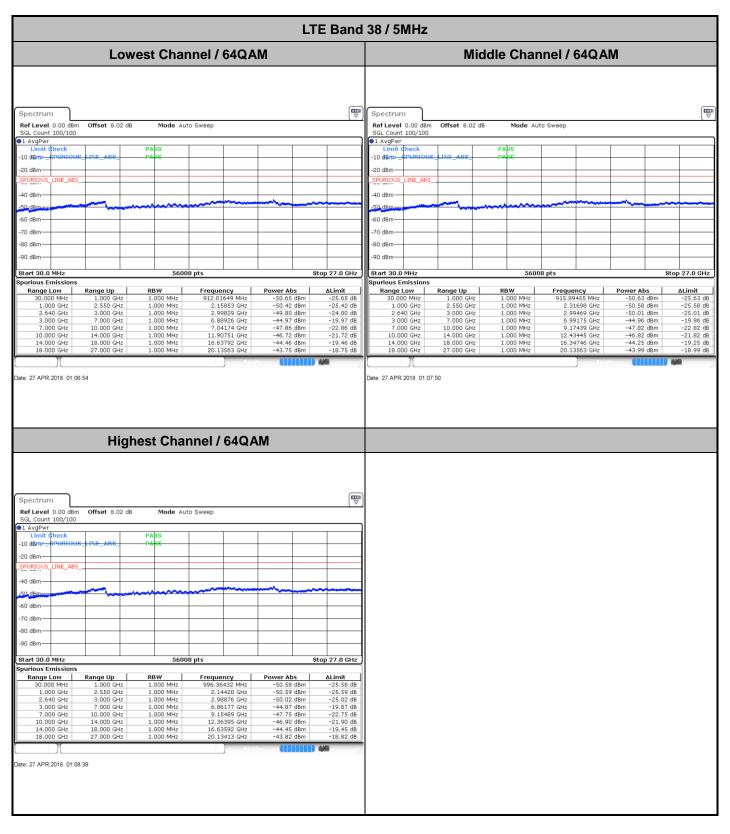
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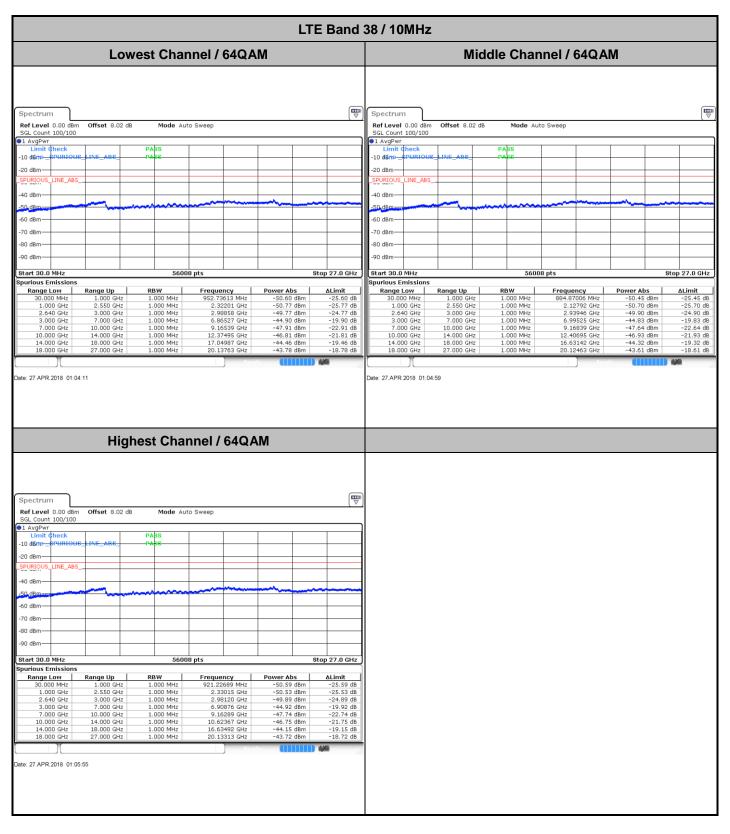
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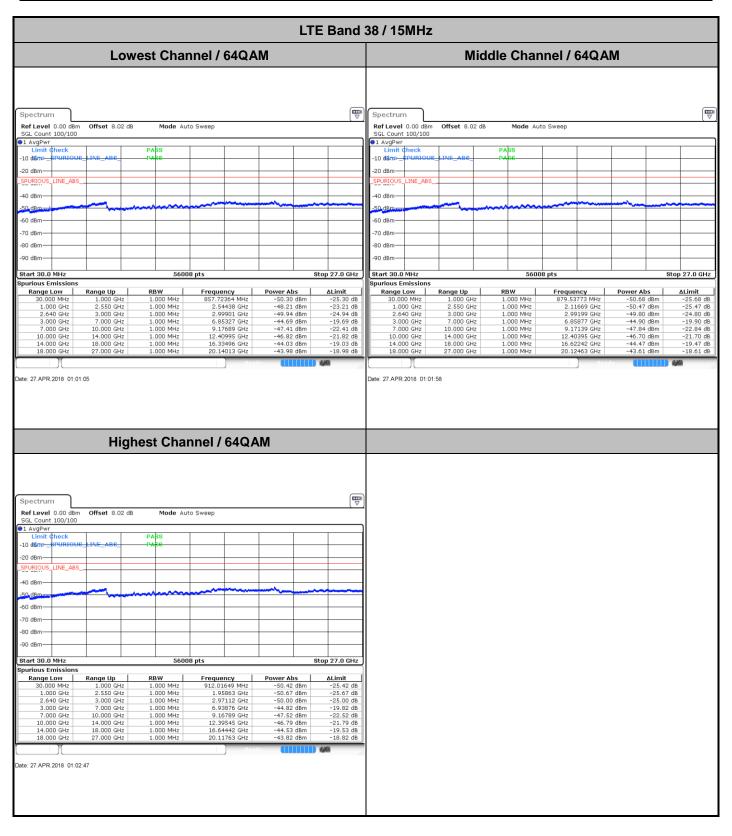
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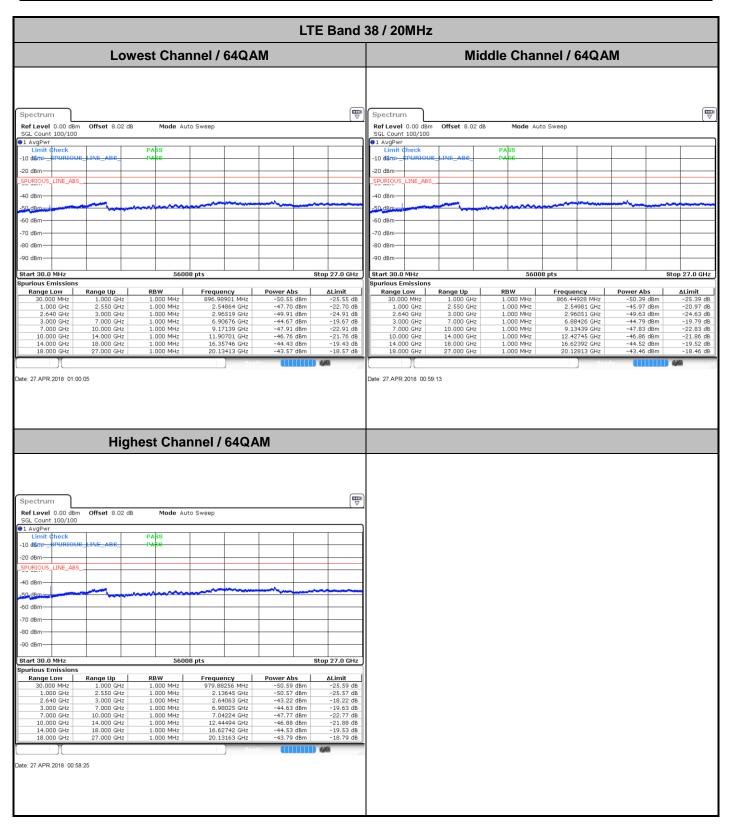
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## Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0026	
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0019	PASS
-20	Normal Voltage	0.0013	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0018	
20	Battery End Point	0.0023	

### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (	Conditions	LTE Band 4 (QPSK) / Middle Channel	Limit
		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0029	
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0031	
0	Normal Voltage	0.0018	
-10	Normal Voltage	0.0006	PASS
-20	Normal Voltage	0.0020	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0010	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0005	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (	Conditions	LTE Band 5 (QPSK) / Middle Channel	Limit
_		BW 10MHz	2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0035	
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0016	PASS
-20	Normal Voltage	0.0041	
-30	Normal Voltage	0.0008	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0026	
20	Battery End Point	0.0007	

Note: Normal Voltage =3.85 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.

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Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0020	
-10	Normal Voltage	0.0021	PASS
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0004	

#### Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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Test (	Conditions	LTE Band 38 (QPSK) / Middle Channel	Limit
_		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	
40	Normal Voltage	0.0004	
30	Normal Voltage	0.0023	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0021	PASS
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0024	

#### Note:

- 1. Normal Voltage =3.85V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.4 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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### **Appendix B. Test Results of Radiated Test**

# **Radiated Spurious Emission**

LTE Band 2 / 20MHz / QPSK										
Channel	Frequency (MHz)	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	3741	-57.11	-13	-44.11	-62.28	1.83	7.00	Н		
	5613	-47.44	-13	-34.44	-55.06	2.18	9.80	Н		
Middle	7485	-52.00	-13	-39.00	-61.67	2.53	12.20	Н		
Middle	3741	-56.10	-13	-43.10	-61.27	1.83	7.00	V		
	5613	-48.28	-13	-35.28	-55.90	2.18	9.80	V		
	7485	-54.09	-13	-41.09	-63.76	2.53	12.20	V		

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

LTE Band 4 / 20MHz / QPSK										
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	3447	-51.27	-13	-38.27	-56.41	1.81	6.95	Н		
	5169	-54.26	-13	-41.26	-61.33	2.23	9.30	Н		
Middle	6894	-55.33	-13	-42.33	-63.61	2.60	10.88	Н		
Middle	3447	-46.65	-13	-33.65	-51.79	1.81	6.95	V		
	5169	-57.45	-13	-44.45	-64.52	2.23	9.30	V		
	6894	-55.23	-13	-42.23	-63.51	2.6	10.88	V		

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

LTE Band 5 / 10MHz / QPSK										
Channel	Frequency ( MHz )	ERP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)		
	1664	-48.48	-13	-35.48	-50.39	1.14	5.20	Н		
	2496	-44.72	-13	-31.72	-47.35	1.12	5.90	Н		
Middle	3327	-64.04	-13	-51.04	-67.25	1.34	6.70	Н		
Middle	1664	-53.60	-13	-40.60	-55.51	1.14	5.20	V		
	2496	-50.63	-13	-37.63	-53.26	1.12	5.90	V		
	3327	-60.81	-13	-47.81	-64.02	1.34	6.70	V		

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

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	LTE Band 7 / 15MHz / QPSK										
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)			
	5056	-61.15	-25	-36.15	-67.87	2.40	9.12	Н			
	7584	-42.94	-25	-17.94	-52.57	2.87	12.50	Н			
	10116	-57.40	-25	-32.40	-66.32	3.18	12.10	Н			
Middle	12645	-52.29	-25	-27.29	-61.39	3.79	12.89	Н			
Middle	5056	-63.05	-25	-38.05	-69.77	2.40	9.12	V			
	7584	-54.37	-25	-29.37	-64.00	2.87	12.50	V			
	10116	-57.95	-25	-32.95	-66.87	3.18	12.10	V			
	12645	-56.93	-25	-31.93	-65.97	3.79	12.83	V			

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

	LTE Band 38 / 20MHz / QPSK										
Channel	Frequency ( MHz )	EIRP (dBm)	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)			
	5172	-60.67	-25	-35.67	-67.50	2.46	9.29	Н			
	7760	-47.82	-25	-22.82	-57.01	3.01	12.20	Н			
	10341	-54.68	-25	-29.68	-63.41	3.52	12.25	Н			
Middle	12930	-47.32	-25	-22.32	-56.51	3.82	13.01	Н			
Middle	5172	-58.90	-25	-33.90	-65.73	2.46	9.29	V			
	7760	-42.23	-25	-17.23	-51.42	3.01	12.20	V			
	10341	-58.08	-25	-33.08	-66.81	3.52	12.25	V			
	12933	-52.54	-25	-27.54	-61.73	3.82	13.01	V			

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

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