

TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AFZZ-RMSC3GG Page Number : A260 of A269
Report Issued Date : Nov. 28, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

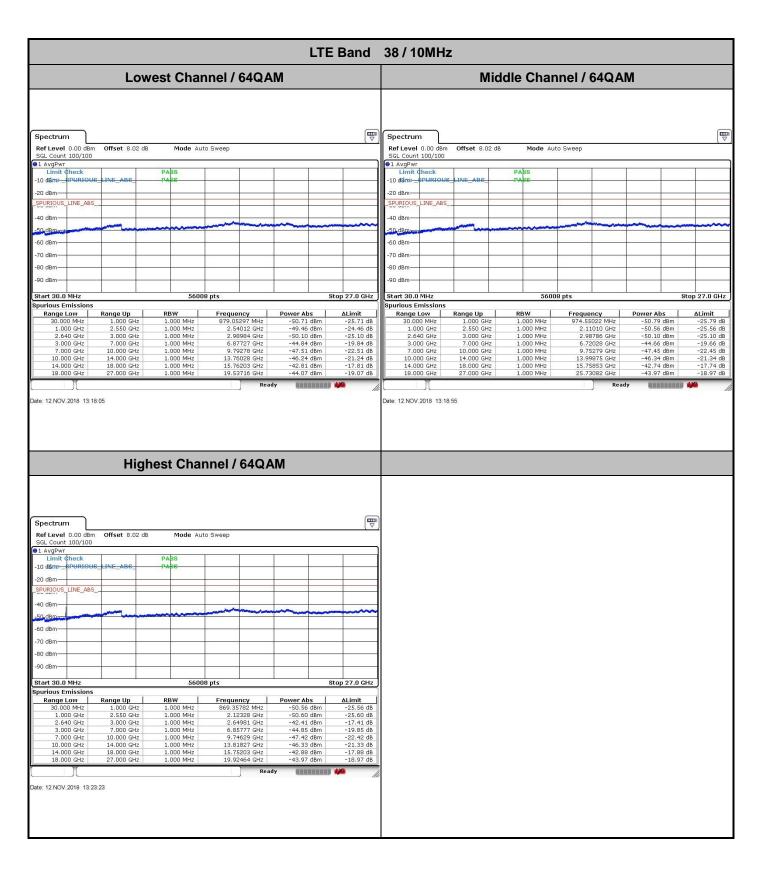
LTE Band 38 / 5MHz Lowest Channel / 64QAM Middle Channel / 64QAM **W** Spectrum Spectrum Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep Count 100/100 Count 100/100 -20 dBm -20 dBm SPURIOUS SPURIOUS -60 dBm -60 dBm 70 dBn -80 dBm -80 dBm -90 dBm -90 dBm-Start 30.0 MH; Stop 27.0 GHz Start 30.0 MHz 56008 27.0 GHz irious Emissions Spurious Emissions RBW

1.000 MHz
1.000 MHz Frequency 903.77561 MHz 2.15078 GHz 2.96861 GHz 6.86677 GHz ΔLimit
-25.57 dB
-25.36 dB
-25.06 dB
-19.77 dB
-22.45 dB
-21.35 dB
-17.80 dB
-18.81 dB Range Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Up Frequency 913.95552 MHz 2.13257 GHz 2.99757 GHz Power Abs -50.57 dBm Range Low 30.000 MH: ΔLimit ΔLimit
-25.73 dB
-25.49 dB
-24.77 dB
-19.99 dB
-22.52 dB
-21.19 dB
-17.39 dB
-18.88 dB -50.57 dBm -50.36 dBm -50.06 dBm -44.77 dBm -47.45 dBm -46.35 dBm -42.80 dBm 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz -50.73 dBm -50.49 dBm -49.77 dBm 1.000 GHz 2.640 GHz 2.640 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz -49.77 dBm -44.99 dBm -47.52 dBm -46.19 dBm -42.39 dBm -43.88 dBm 6.88076 GHz 9.75279 GHz 13.80427 GHz 3.000 GHz 10.000 GHz 14.000 GHz 10.000 GHz .000 MH 18.000 GHz 27.000 GHz 18.000 GHz 27.000 GHz .000 MHz .000 MHz 18.000 GHz 43.81 dBm Date: 12.NOV.2018 13:00:29 Date: 12.NOV.2018 13:01:18 **Highest Channel / 64QAM** Spectrum Ref Level 0.00 dBm Offset 8.02 dB Mode Auto Sweep GL Count 100/100 1 AvgPwr Limit Check -10 d&me -20 dBm SPURIOUS 40 dBm -60 dBm 70 dBm -80 dBm Stop 27.0 GHz Start 30.0 MHz 56008 pts rious Emission: Range Low 30.000 MHz Range Up 1.000 GHz 2.550 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Pate: 12.NOV.2018 13:05:49

Sporton International (Kunshan) Inc.

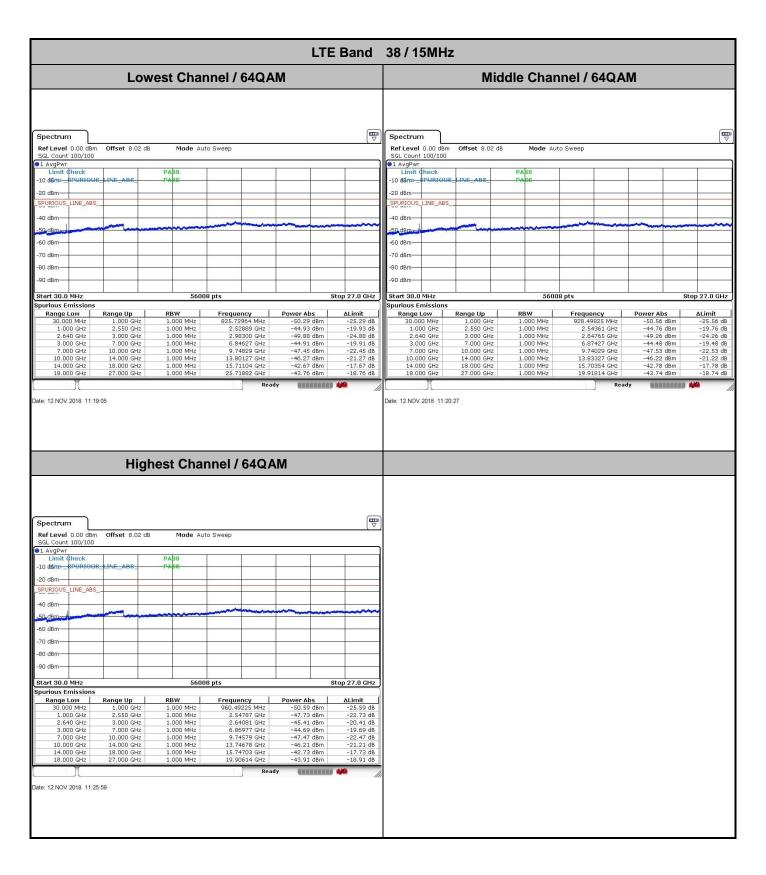
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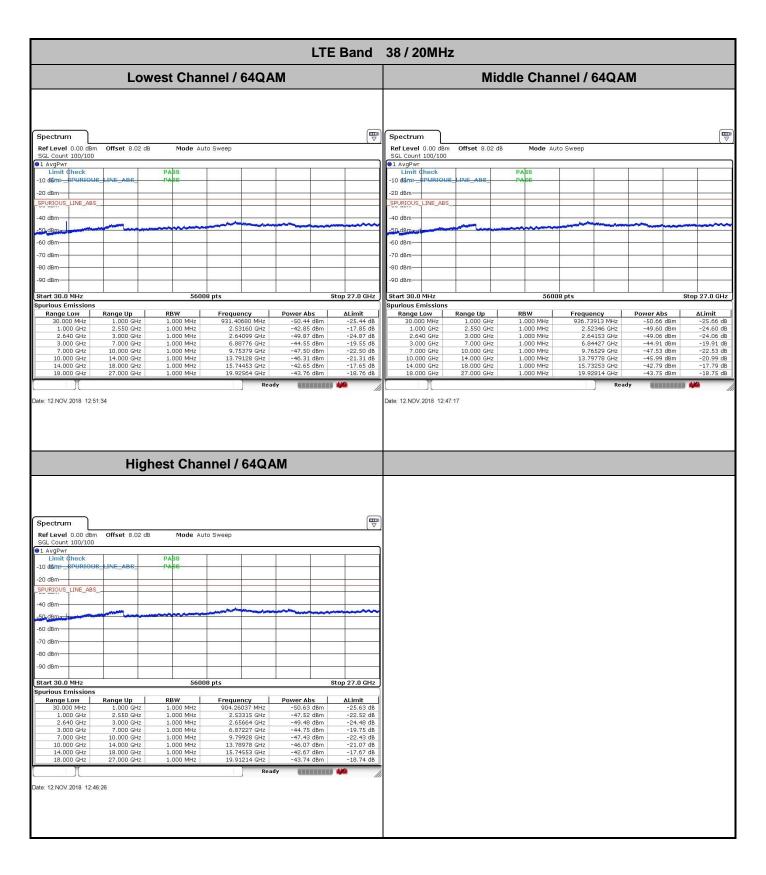
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Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
- ,	V V	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	
40	Normal Voltage	0.0005	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0026	PASS
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0001	
20	Battery End Point	0.0022	

Note:

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 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
T	Walka wa	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0007	
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0009	PASS
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0029	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0028	

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 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	0.0002	
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0050	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0056	
0	Normal Voltage	0.0059	
-10	Normal Voltage	0.0053	PASS
-20	Normal Voltage	0.0024	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0060	
20	Battery End Point	0.0012	

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 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 7 (QPSK) / Middle Channel	Limit
_ ,		BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	
40	Normal Voltage	0.0028	
30	Normal Voltage	0.0008	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0032	
-10	Normal Voltage	0.0002	PASS
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0020	
20	Maximum Voltage	0.0006	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0027	

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 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
_ ,	V V	BW 10MHz	Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0002	
40	Normal Voltage	0.0024	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0019	
0	Normal Voltage	0.0022	
-10	Normal Voltage	0.0014	PASS
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0006	

- 1. Normal Voltage =3.85 V.; Battery End Point (BEP) =3.5 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	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	3741	-43.23	-13	-30.23	-49.80	1.848	8.42	Н		
	5613	-38.80	-13	-25.80	-47.16	2.32	10.68	Н		
Middle	7485	-43.44	-13	-30.44	-52.77	2.61	11.94	Н		
Middle	3741	-46.25	-13	-33.25	-52.82	1.85	8.42	V		
	5613	-47.25	-13	-34.25	-55.61	2.32	10.68	V		
	7485	-45.31	-13	-32.31	-54.64	2.61	11.94	V		

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

	LTE Band 4 / 10MHz / QPSK									
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	3456	-40.32	-13	-27.32	-46.64	1.81	8.13	Н		
	5184	-53.62	-13	-40.62	-61.60	2.222	10.2	Н		
Middle	6912	-43.68	-13	-30.68	-52.50	2.54	11.36	Н		
Middle	3456	-36.79	-13	-23.79	-43.11	1.81	8.13	V		
	5184	-54.48	-13	-41.48	-62.46	2.222	10.20	V		
	6912	-43.70	-13	-30.70	-52.52	2.54	11.36	V		

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

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	LTE Band 5 / 10MHz / QPSK									
Channel	Frequenc y (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	1664	-59.57	-13	-46.57	-61.90	1.21	5.68	Н		
	2496.27	-54.15	-13	-41.15	-56.26	1.54	5.80	Н		
Middle	3327	-59.71	-13	-46.71	-63.71	1.73	7.88	Н		
Middle	1664	-59.26	-13	-46.26	-61.59	1.21	5.68	V		
	2496	-53.17	-13	-40.17	-55.28	1.54	5.80	V		
	3327	-60.93	-13	-47.93	-64.93	1.73	7.88	V		

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

	LTE Band 7 / 20MHz / QPSK									
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	5052	-36.73	-25	-11.73	-44.76	2.18	10.21	Н		
	7580	-45.20	-25	-20.20	-54.51	2.69	12.00	Н		
	10104	-51.03	-25	-26.03	-60.74	3.19	12.90	Н		
N 4: el ell e	12630	-52.55	-25	-27.55	-62.05	3.94	13.44	Н		
Middle	5052	-45.56	-25	-20.56	-53.59	2.18	10.21	V		
	7576	-43.08	-25	-18.08	-52.39	2.69	12.00	V		
	10104	-51.43	-25	-26.43	-61.14	3.19	12.90	V		
	12630	-48.61	-25	-23.61	-58.11	3.94	13.44	V		

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

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	LTE Band 38 / 15MHz / QPSK									
Channel	Frequenc y (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)		
	5176	-35.49	-25	-10.49	-43.52	2.18	10.21	Н		
	7765.02	-42.29	-25	-17.29	-51.60	2.69	12.00	Н		
	10352	-45.07	-25	-20.07	-54.78	3.19	12.90	Н		
Middle	12942	-46.46	-25	-21.46	-55.99	4.05	13.58	Н		
Middle	5176	-45.46	-25	-20.46	-53.49	2.18	10.21	V		
	7764	-37.87	-25	-12.87	-47.18	2.69	12.00	V		
	10352	-47.55	-25	-22.55	-57.26	3.19	12.90	V		
	12942	-46.79	-25	-21.79	-56.32	4.05	13.58	V		

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

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