

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A54 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

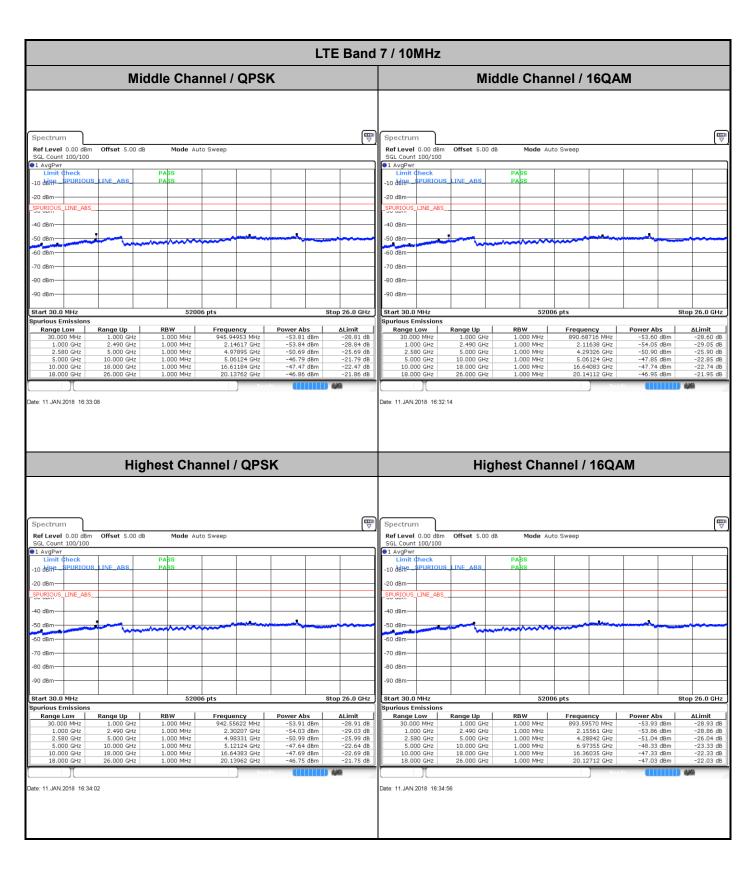
Report Template No.: BU5-FGLTE Version 1.6

LTE Band 7 / 5MHz **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 5.00 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 5.00 dB Mode Auto Sweep GL Count 100/100 SGL Count 100/100 ●1 AvgPwr □ imit ( -10 ddne 10 ddne 40 dBm 40 dBm -70 dBm -70 dBm 80 dBm -80 dBm Start 30.0 MHz 520 Stop 26.0 GHz Start 30.0 MHz 52000 Stop 26.0 GHz rious Emissio Spurious Emissions Range Up RBW 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Power Abs
-53.64 dBm
-53.84 dBm
-50.95 dBm
-48.33 dBm
-47.36 dBm
-46.94 dBm ΔLimit
-28.64 dB
-28.84 dB
-25.95 dB
-23.33 dB
-22.36 dB
-21.94 dB 1.000 MHz Power Abs
-53.88 dBm
-53.85 dBm
-50.85 dBm
-48.36 dBm
-47.71 dBm
-46.91 dBm 841.72664 MHz 2.48777 GHz 4.96492 GHz 6.84657 GHz Range Low 30,000 MHz Range Low 30.000 MH; ∆Limit -28.88 -28.88 dB -28.85 dB -25.85 dB -25.85 dB -23.36 dB -22.71 dB -21.91 dB 30.000 MHz 1.000 GHz 2.580 GHz 5.000 GHz 10.000 GHz 18.000 GHz 2.490 GHz 5.000 GHz 2.490 GHz 5.000 GHz 1.000 GHz 2.580 GHz 2.12830 GHz 4.97750 GHz .000 GHz 18.000 GHz 26.000 GHz 16.61684 GHz 20.13512 GHz ate: 11.JAN.2018 16:17:34 ate: 11.JAN.2018 16:18:28 LTE Band 7 / 10MHz Lowest Channel / QPSK **Lowest Channel / 16QAM** Spectrum Spectrum Ref Level 0.00 dBm Offset 5.00 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 5.00 dB Mode Auto Sweep SGL Count 100/100 SGL Count 100/100 ●1 AvgPwr ●1 AvgPw -10 ddRF -10 dishi 40 dBm 40 dBm -70 dBm -70 dBm 80 dBm 80 dBm Start 30.0 MHz Stop 26.0 GHz Stop 26.0 GHz Start 30.0 MH 52006 Spurious Emission: Range Up Irious E.... Range Low 20 000 MHz Frequency 33983 MHz ΔLimit
-28.85 dB
-16.44 dB
-25.80 dB
-22.08 dB
-22.48 dB
-22.00 dB -53.72 dBm -44.41 dBm -50.83 dBm -48.23 dBm -53.85 dBm -41.44 dBm -50.80 dBm -47.08 dBm 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Up Range Low 30.000 MHz ΔLimit 1.000 GHz 2.490 GHz 5.000 GHz 10.000 GHz 18.000 GHz 26.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 65.33983 MHz 2.48330 GHz 4.99444 GHz 5.00125 GHz 16.65433 GHz 20.12262 GHz 1.000 GHz 2.490 GHz 5.000 GHz 10.000 GHz 18.000 GHz 26.000 GHz 30.000 MHz 1.000 GHz 2.580 GHz 5.000 GHz 10.000 GHz 18.000 GHz 1.000 MHz 1.000 GHz 2.580 GHz 5.000 GHz 2.48330 GHz 4.30439 GHz 6.86706 GHz 16.32785 GHz 20.13912 GHz ate: 11.JAN.2018 16:30:26 ate: 11.JAN.2018 16:31:20

Sporton International (Kunshan) Inc.

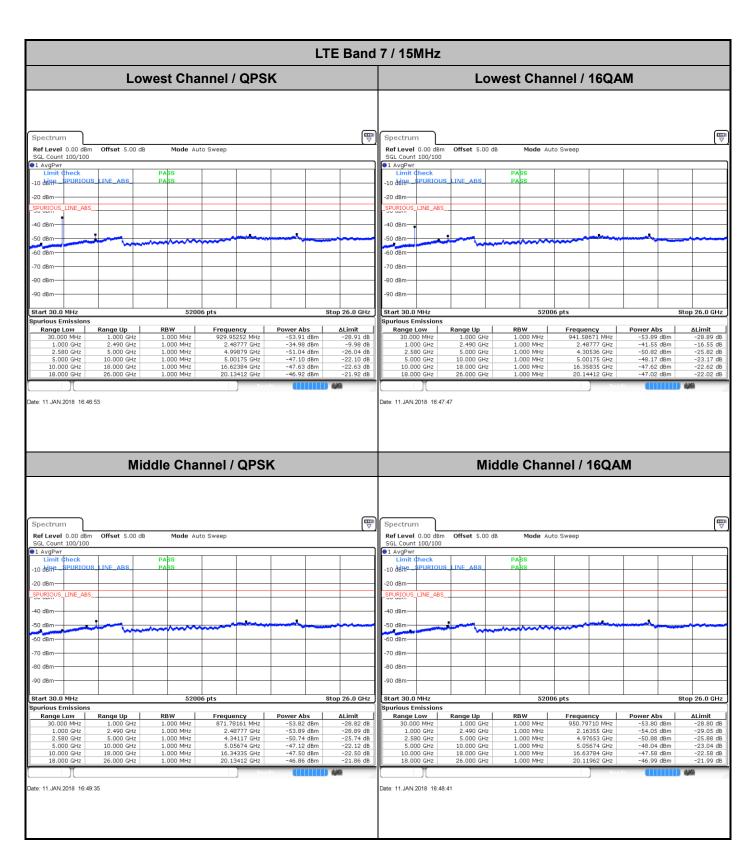
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A55 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6



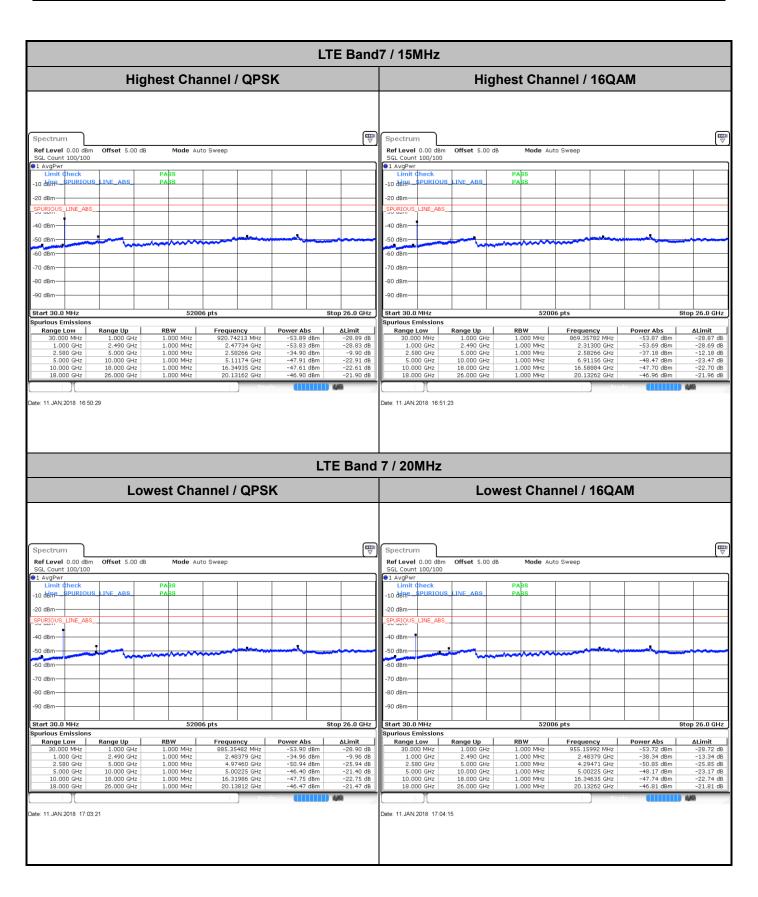
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A56 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6



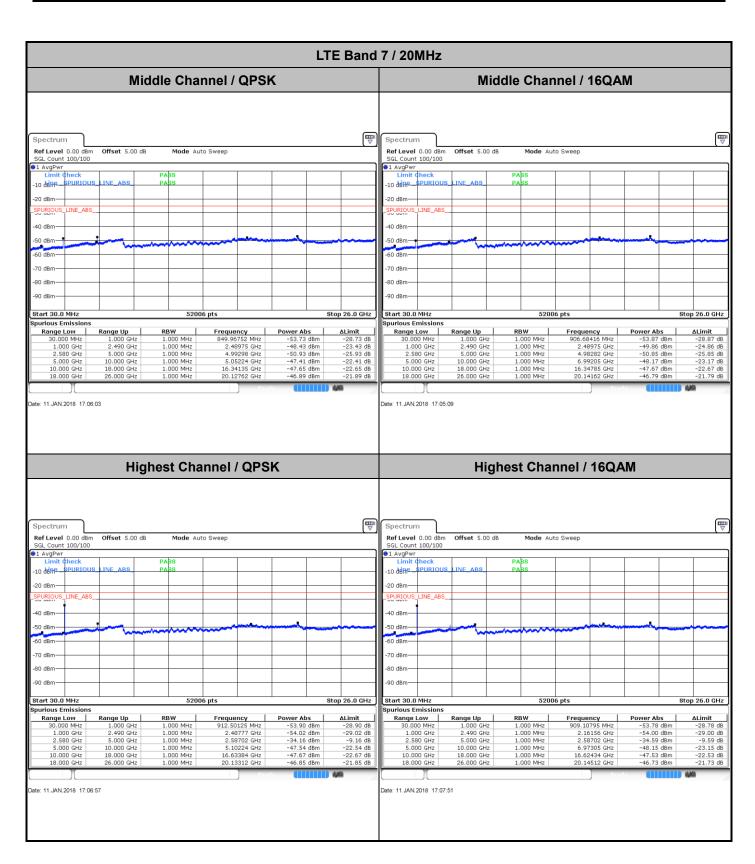
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A57 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A58 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A59 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6

## Frequency Stability

Test 0	Conditions	LTE Band 5 (QPSK) / Middle Channel		
Temperature (°C)		BW 10MHz	2.5ppm	
	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0074		
40	Normal Voltage	0.0096		
30	Normal Voltage	0.0017		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0072		
0	Normal Voltage	0.0081		
-10	Normal Voltage	0.0020	PASS	
-20	Normal Voltage	0.0026		
-30	Normal Voltage	0.0060		
20	Maximum Voltage	0.0092		
20	Normal Voltage	0.0007		
20	Battery End Point	0.0077		

Note: Normal Voltage =3.8 V.; Battery End Point (BEP) =3.45 V.; Maximum Voltage =4.2 V.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A60 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report No.: FG7N1101-03B

Report Template No.: BU5-FGLTE Version 1.6

Test (	Conditions	LTE Band 7 (QPSK) / Middle Channel		
Temperature (°C)		BW 10MHz	Note 2.	
	Voltage (Volt)	Deviation (ppm)	Result	
50	Normal Voltage	0.0017		
40	Normal Voltage	0.0009		
30	Normal Voltage	0.0018		
20(Ref.)	Normal Voltage	0.0000		
10	Normal Voltage	0.0019		
0	Normal Voltage	0.0006		
-10	Normal Voltage	0.0011	PASS	
-20	Normal Voltage	0.0016		
-30	Normal Voltage	0.0021		
20	Maximum Voltage	0.0002		
20	Normal Voltage	0.0010		
20	Battery End Point	0.0002		

## Note:

- 1. Normal Voltage =3.8 V.; Battery End Point (BEP) =3.45 V.; Maximum Voltage =4.2 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : A61 of A61
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6

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

## **Radiated Spurious Emission**

LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0									
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	1670	-60.32	-13	-47.32	-65.41	-62.23	1.14	5.20	Н
	2506	-51.15	-13	-38.15	-62.26	-53.78	1.12	5.90	Н
	3342	-61.37	-13	-48.37	-71.34	-64.58	1.34	6.70	Н
	1670	-59.90	-13	-46.90	-65.23	-61.81	1.14	5.20	V
	2506	-53.84	-13	-40.84	-63.50	-56.47	1.12	5.90	V
	3342	-61.22	-13	-48.22	-71.35	-64.43	1.34	6.70	V

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

LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0									
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	5052	-54.28	-25	-29.28	-39.72	-61.64	1.76	9.12	Н
	7578	-45.52	-25	-20.52	-36.34	-55.49	2.16	12.13	Н
	10107	-58.18	-25	-33.18	-53.42	-68.06	2.22	12.10	Н
	5052	-50.43	-25	-25.43	-36.95	-57.79	1.76	9.12	V
	7578	-43.16	-25	-18.16	-34.28	-53.13	2.16	12.13	V
	10107	-57.39	-25	-32.39	-52.84	-67.27	2.22	12.10	V

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

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2AJOTTA-1071 Page Number : B1 of B1
Report Issued Date : Feb. 14, 2018
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 1.6