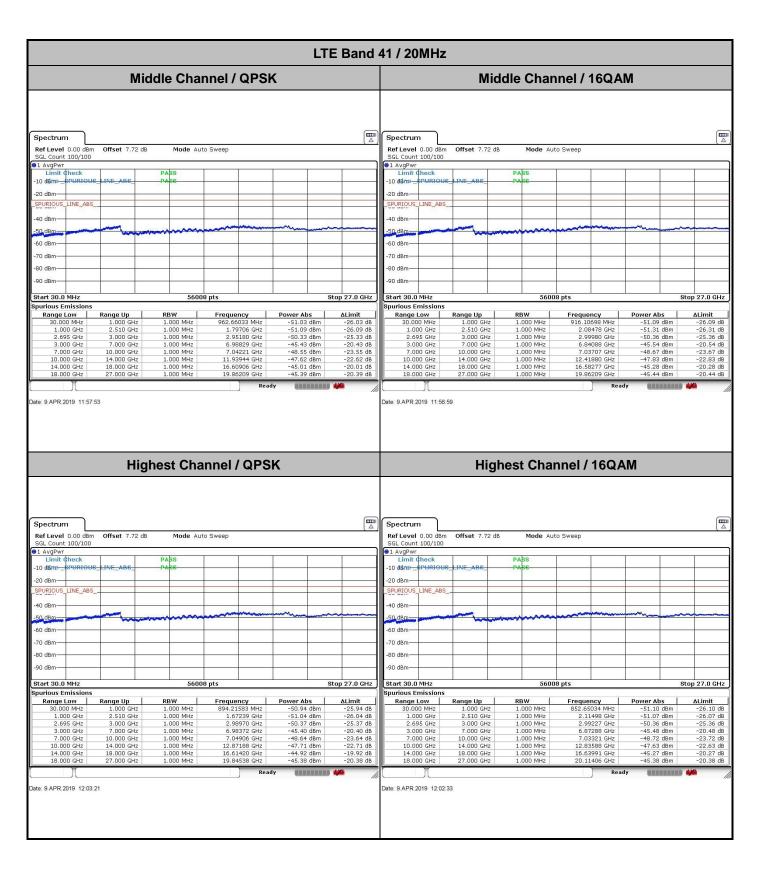


TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A46 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A47 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 41 / 5MHz Lowest Channel / 64QAM Middle Channel / 64QAM **—** Spectrum Spectrum Ref Level 0.00 dBm Offset 7.72 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 7.72 dB Mode Auto Sweep Count 100/100 Count 100/100 10 d&me -20 dBm -20 dBm SPURIOUS SPURIOU: -60 dBm -60 dBm 70 dBn 70 dBm -80 dBm -80 dBm -90 dBm--90 dBm-Start 30.0 MH; Stop 27.0 GHz Start 30.0 MHz 56008 27.0 GHz urious Emissions Spurious Emissions -50.82 dBm -51.20 dBm -51.20 dBm -50.36 dBm -45.43 dBm -48.47 dBm -47.70 dBm -45.27 dBm -45.39 dBm RBW

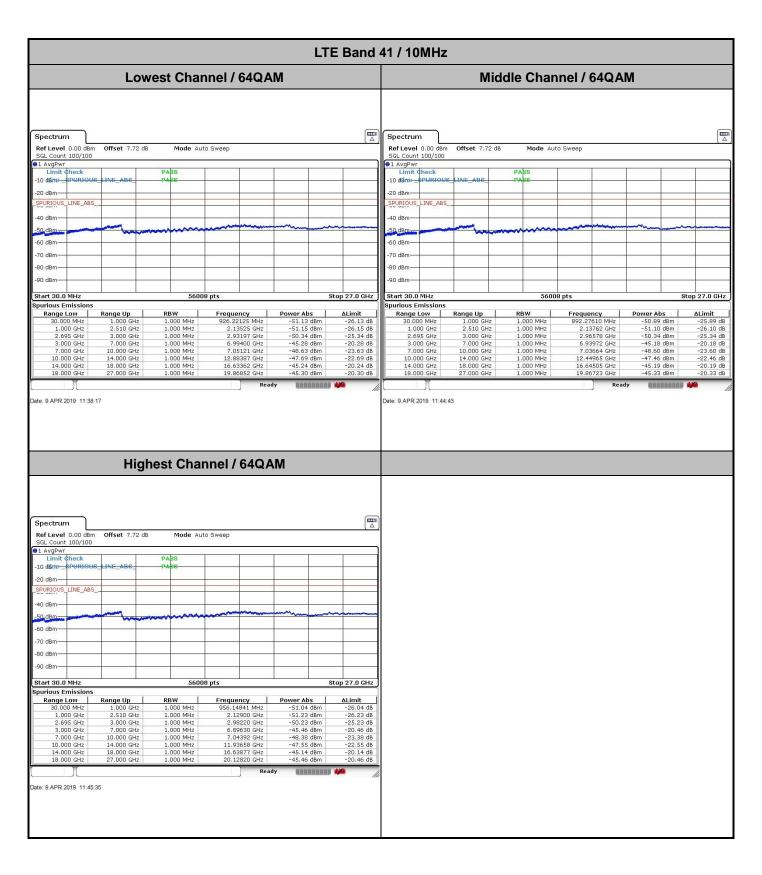
1.000 MHz
1.000 MHz 901.83617 MHz 2.10549 GHz 2.92104 GHz 6.85459 GHz 7.04692 GHz 12.45365 GHz Power Abs
-51.05 dBm
-51.10 dBm
-50.33 dBm
-45.35 dBm
-48.52 dBm
-47.54 dBm ΔLimit
-26.05 dB
-26.10 dB
-25.33 dB
-20.35 dB
-23.52 dB
-22.54 dB
-20.21 dB
-20.37 dB Range Up 1.000 GHz 2.510 GHz 3.000 GHz 7.000 GHz 1.000 MHz Range Up Frequency 795.15141 MHz 2.15013 GHz 2.84436 GHz Range Low 30,000 MHz Range Low 30.000 MH: ∆Limit ΔLimit
-25.82 dB
-26.20 dB
-25.36 dB
-20.43 dB
-23.47 dB
-22.70 dB
-20.27 dB
-20.39 dB 1.000 GHz 2.510 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 1.000 GHz 2.695 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 2.84436 GHZ 6.98315 GHZ 7.04735 GHZ 11.98514 GHZ 16.60449 GHZ 20.14362 GHZ 3.000 GHz 10.000 GHz 14.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz -45.21 dBm -45.37 dBm 18.000 GHz 27.000 GHz .000 MHz .000 MHz Date: 9.APR.2019 11:30:04 Date: 9.APR.2019 11:31:01 **Highest Channel / 64QAM** Spectrum Ref Level 0.00 dBm Offset 7.72 dB Mode Auto Sweep GL Count 100/100 1 AvgPwr Limit Check -10 d&me -20 dBm \_LINE\_ABS SPURIOUS 40 dBm 70 dBm -80 dBm-90 dBm Stop 27.0 GHz Start 30.0 MHz 56008 pts rious Emission: Range Up

1.000 GHz
2.510 GHz
3.000 GHz
7.000 GHz
10.000 GHz
14.000 GHz
18.000 GHz
27.000 GHz ALimit
-26.08 dB
-26.02 dB
-25.21 dB
-20.56 dB
-23.54 dB
-22.64 dB
-20.18 dB
-20.40 dB Range Low 30.000 MHz ate: 9.APR.2019 11:36:17

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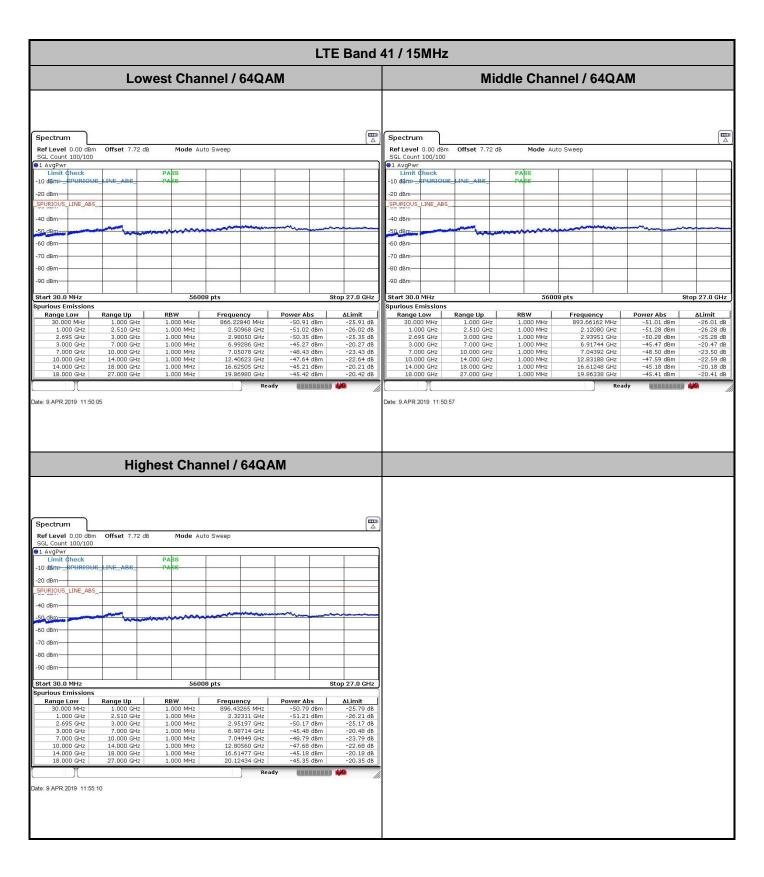
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A48 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



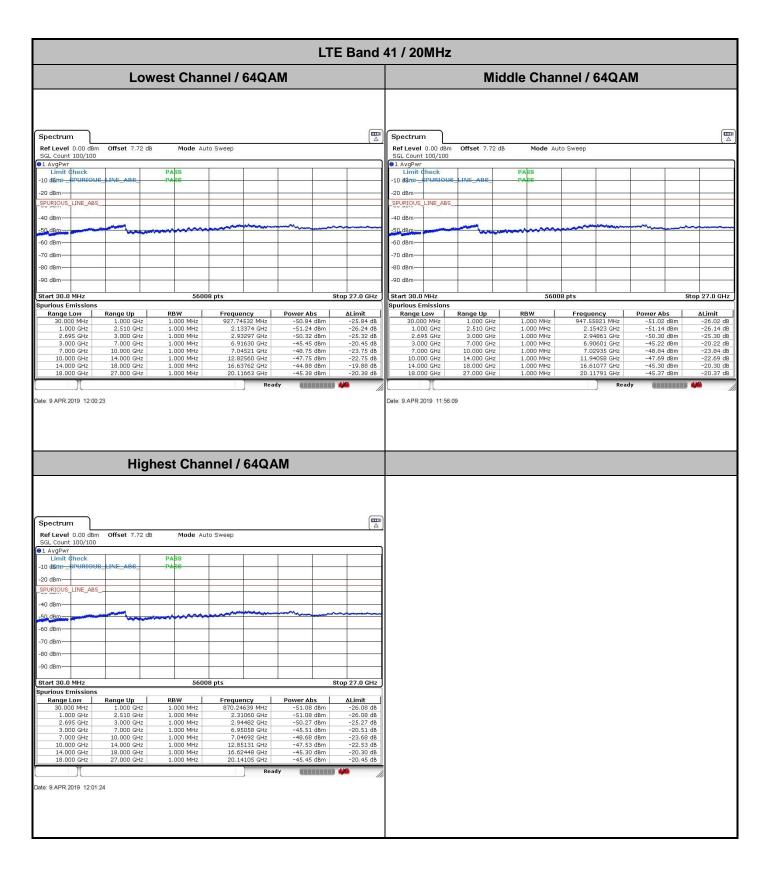
TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A49 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A50 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A51 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

## Frequency Stability

Test Conditions		LTE Band 41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0004	PASS
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	

## Note:

- 1. Normal Voltage =4 V.; Battery End Point (BEP) =3.6 V.; Maximum Voltage =4.35 V.
- 2. Note: The frequency fundamental emissions stay within the authorized frequency block.

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TEL: 86-512-57900158 FAX: 86-512-57900958 FCC ID: 2AJOTTA-1188 Page Number : A52 of A52
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

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

## Radiated Spurious Emission

LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0										
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)		
Middle	5172	-61.03	-25	-36.03	-71.24	3.03	13.24	Н		
	7756	-51.08	-25	-26.08	-60.53	3.56	13.01	Н		
	10340	-56.53	-25	-31.53	-66.05	3.92	13.44	Н		
	12930	-39.34	-25	-14.34	-49.26	4.44	14.36	Н		
	15520	-48.34	-25	-23.34	-58.71	4.77	15.14	Н		
	5172	-62.31	-25	-37.31	-72.52	3.03	13.24	V		
	7760	-51.82	-25	-26.82	-61.27	3.56	13.01	V		
	10340	-59.13	-25	-34.13	-68.65	3.92	13.44	V		
	12930	-41.63	-25	-16.63	-51.55	4.44	14.36	V		
	15520	-44.89	-25	-19.89	-55.26	4.77	15.14	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-1188 Page Number : B1 of B1
Report Issued Date : Apr. 16, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0