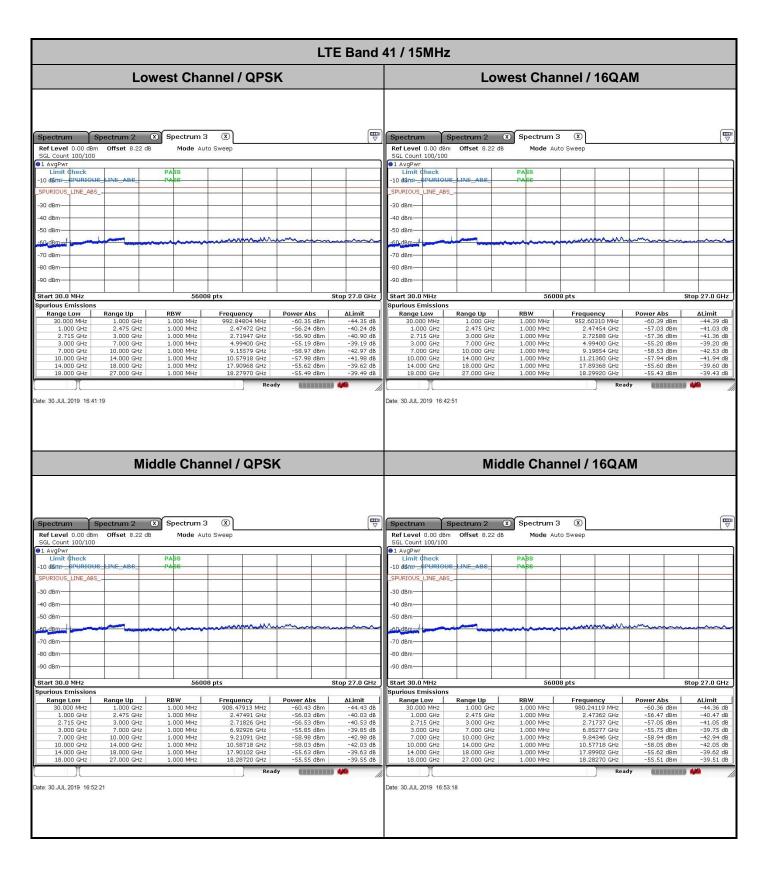
LTE Band 41 / 10MHz Middle Channel / QPSK Middle Channel / 16QAM Spectrum 2 Spectrum 3 X Spectrum 2 Spectrum 3 X Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢heck 30 dBm 30 dBm-50 dBm 50 dBm 80 dBm -80 dBm 90 dBm 90 dBm-Start 30.0 MH; Stop 27.0 GH: Start 30.0 MHz 56008 27.0 GHz rious Emission Spurious Emissions Power Abs -60.43 dBm -57.42 dBm -57.21 dBm -46.96 dBm -58.69 dBm -58.13 dBm -55.58 dBm -55.54 dBm ΔLimit
-44.43 dB
-41.42 dB
-41.21 dB
-30.96 dB
-42.69 dB
-42.13 dB
-39.58 dB
-39.54 dB 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Range Up 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz Power Abs
-60.41 dBm
-56.38 dBm
-56.58 dBm
-46.56 dBm
-58.80 dBm
-58.02 dBm ΔLimit
-44.41 dB
-40.38 dB
-40.58 dB
-30.56 dB
-42.80 dB
-42.02 dB
-39.56 dB
-39.56 dB RBW 1.000 MHz 1.000 MHz 1.000 MHz Frequency 995.27243 MHz 2.47417 GHz 2.71580 GHz Range Low 30,000 MH: Range Up Range Low 30,000 MHz Frequency 911.87328 MHz 1.87328 MHz 2.47491 GHz 2.72129 GHz 5.17748 GHz 2.475 GHz 3.000 GHz 7.000 GHz 1.000 GHz 2.715 GHz 1.000 GHz 2.715 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz .000 MH 5.17748 GHz 9.22328 GHz 10.56768 GHz 17.91101 GHz 18.28420 GHz 10.000 GHz 14.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 10.000 GHz .000 MH: 10.58468 GHz 18.000 GHz 27.000 GHz 18.000 GHz 27.000 GHz .000 MHz .000 MHz 17.90968 GHz 18.25571 GHz -55.56 dBm -55.56 dBm 18.000 GHz ate: 30.JUL.2019 16:03:50 Date: 30.JUL.2019 16:04:51 **Highest Channel / QPSK Highest Channel / 16QAM** X X Spectrum 2 Spectrum 3 Spectrum 2 Spectrum 3 Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sween Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 GL Count 100/100 1 AvgPwr Limit Check -10 dSne_BPURI 1 AvgPwr Limit Check -10 dSne_SPURI PURIOUS_LINE_ABS_ _INE_ABS_ 30 dBr -30 dBm 40 dBm 40 dBm -50 dBm--50 dBm 70 dBm 70 dBm -80 dBm--80 dBm 90 dBm 90 dBm Stop 27.0 GHz Start 30.0 MHz 56008 pts Stop 27.0 GHz Start 30.0 MHz 56008 pts Spurious Emissions ırious Emission -60.47 dBm -56.45 dBm -56.50 dBm -55.79 dBm -59.01 dBm -58.04 dBm -55.74 dBm -55.50 dBm 30.000 MHz
30.000 MHz
1.000 GHz
2.715 GHz
3.000 GHz
10.000 GHz
11.000 GHz
14.000 GHz ΔLimit
-44.46 dB
-39.95 dB
-40.40 dB
-39.91 dB
-42.99 dB
-42.10 dB
-39.40 dB
-39.39 dB ΔLimit
-44.47 dB
-40.45 dB
-40.50 dB
-39.79 dB
-43.01 dB
-42.04 dB
-39.74 dB
-39.50 dB ange Up 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 27.000 GHz Frequency 939.02649 MHz 2.47417 GHz 2.71897 GHz 6.97275 GHz 9.19104 GHz 10.57968 GHz 17.91168 GHz 18.30370 GHz Range Low 30.000 MHz Range Up 90.90852 MHz 2.47491 GHz 2.71858 GHz 6.99775 GHz 9.17417 GHz 10.58968 GHz 17.90168 GHz 18.26621 GHz ate: 30.JUL.2019 16:10:32 Date: 30.JUL.2019 16:13:52

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A121 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A122 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

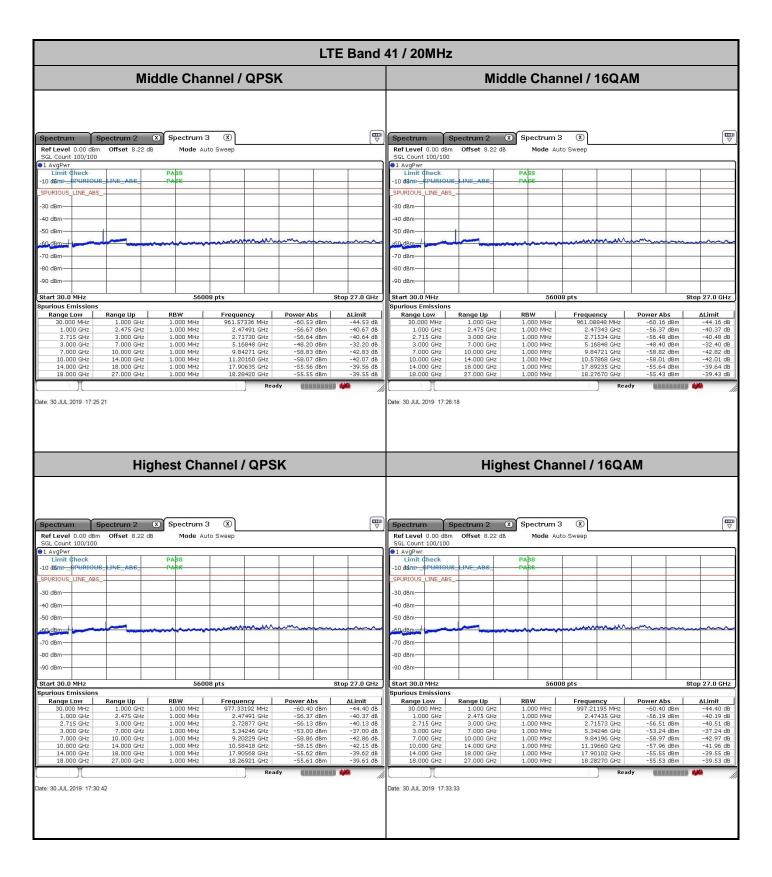
LTE Band 41 / 15MHz **Highest Channel / QPSK Highest Channel / 16QAM** Spectrum 2 Spectrum 3 X Spectrum 3 X Spectrum 2 X Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢heck LINE_ABS 30 dBm 30 dBm-50 dBm -50 dBm 70 dBm 70 dBm 80 dBm -80 dBm 90 dBm 90 dBm-Start 30.0 MH; Stop 27.0 GH: Start 30.0 MHz 56008 27.0 GHz irious Emissions Spurious Emissions Power Abs

-60.45 dBm
-56.10 dBm
-56.45 dBm
-55.61 dBm
-58.86 dBm
-58.10 dBm
-58.10 dBm
-55.48 dBm ΔLimit -44.45 dB -40.10 dB -40.45 dB RBW 1.000 MHz 1.000 MHz 1.000 MHz Frequency 963.27043 MHz 2.47435 GHz 2.71594 GHz Frequency 961.57336 MHz 2.47435 GHz 2.71523 GHz Power Abs -60.44 dBm Range Low 30,000 MH: Range Up Range Low 30,000 MHz ∆Limit ALimit
-44.44 dB
-40.61 dB
-40.22 dB
-39.91 dB
-42.90 dB
-42.06 dB
-39.70 dB
-39.24 dB -60.44 dBm -56.61 dBm -56.22 dBm -55.91 dBm -58.90 dBm -58.06 dBm -55.70 dBm -55.24 dBm 2.475 GHz 3.000 GHz 7.000 GHz 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 GHz 2.715 GHz 1.000 GHz 2.715 GHz 2.71594 GHZ 6.95926 GHZ 9.19741 GHZ 11.19960 GHZ 17.60107 GHZ 18.28870 GHZ -40.45 dB -39.61 dB -42.86 dB -42.10 dB -39.63 dB -39.48 dB 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz .000 MH 10.000 GHz 14.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 10.000 GHz .000 MH: 10.58218 GHz 18.000 GHz 27.000 GHz 18.000 GHz 27.000 GHz .000 MHz .000 MHz 17.61240 GHz 18.28870 GHz 18.000 GHz ate: 30.JUL.2019 16:58:55 Date: 30.JUL.2019 17:02:12 LTE Band 41 / 20MHz Lowest Channel / QPSK **Lowest Channel / 16QAM** X Spectrum 2 Spectrum 3 X Spectrum 2 Spectrum 3 Mode Auto Sweep Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Ref Level 0.00 dBm Offset 8.22 dB SGL Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢heck ●1 AvgPwr Limit ¢l -10 dame 10 dane LINE ABS PLIRTOLL INE ABS -30 dBm 30 dBm 40 dBm 50 dBm -50 dBm 70 dBm 70 dBm 90 dBm 90 dBm Start 30.0 MHz Start 30.0 MH 27.0 GHz urious Emissio Frequency 23669 MHz Spurious Emissions * 000 MHz Range Low Power Abs
-60.50 dBm
-56.65 dBm
-57.10 dBm
-47.90 dBm
-58.92 dBm
-58.15 dBm RBW 1.000 MHz 1.000 MHz Range Up Power Abs -60.46 dBm Range Low 30.000 MHz Range Up ∆Limit -44.50 1.000 MHz -44.46 dB -40.62 dB -41.03 dB -31.07 dB -42.82 dB -42.03 dB -39.73 dB -39.49 dB 2.475 GHz -44.50 dB -40.65 dB -41.10 dB -31.90 dB -42.92 dB -42.15 dB -39.64 dB -39.52 dB 2.47380 GHz 2.71691 GHz 4.99450 GHz -56.62 dBm -57.03 dBm -47.07 dBm 2.47435 GHz 2.71591 GHz 4.99450 GHz 1.000 GHz 1.000 GHz 1.000 GHz 2.715 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 3.000 GHz 7.000 GHz .000 MHz .000 MHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 9.20491 GHz 7.000 GHz 10.000 GHz .000 MHz .000 MHz 11.19310 GHz 17.60107 GHz 18.29020 GHz ate: 30.JUL.2019 17:21:58 Date: 30.JUL.2019 17:21:06

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A123 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A124 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

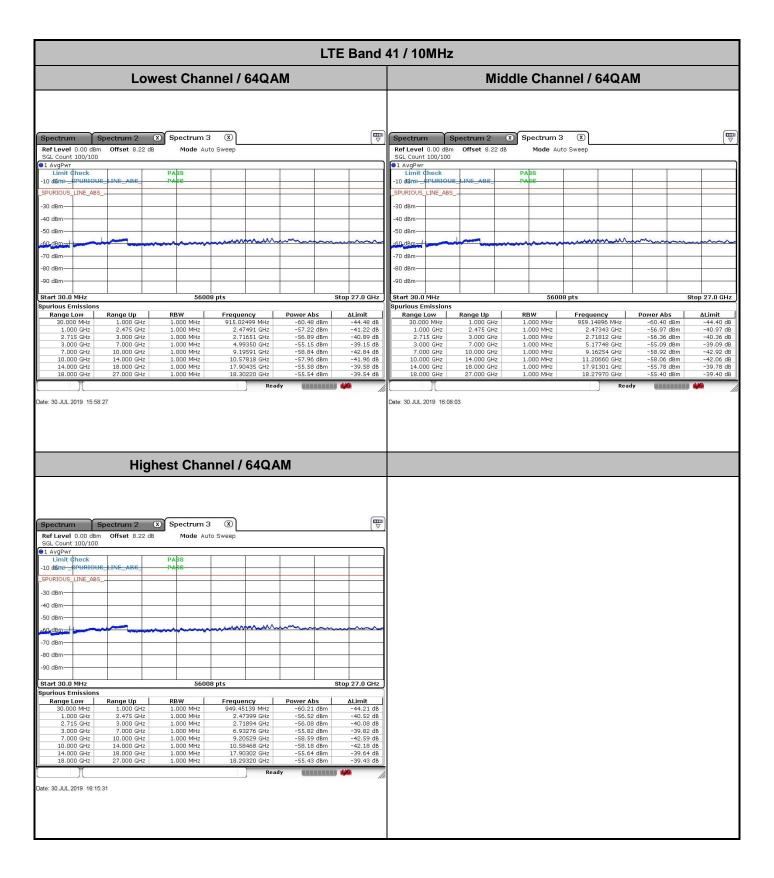
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-60.39 dBm
-58.98 dBm
-58.88 dBm
-52.14 dBm
-58.92 dBm
-58.04 dBm
-55.71 dBm
-55.45 dBm RBW

1.000 MHz
1.000 MHz ΔLimit
-44.39 dB
-42.98 dB
-42.88 dB
-36.14 dB
-42.92 dB
-42.04 dB
-39.71 dB
-39.45 dB Range Up 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz Power Abs
-60.53 dBm
-58.29 dBm
-57.85 dBm
-50.32 dBm
-59.00 dBm ΔLimit
-44.53 dB
-42.29 dB
-41.85 dB
-34.32 dB
-43.00 dB
-42.11 dB
-39.77 dB
-39.55 dB Range Up Frequency 949.93627 MHz Frequency 946.54211 MHz 2.47380 GHz 2.72022 GHz Range Low 30.000 MH: 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 9.93627 MHz 2.47417 GHz 2.71659 GHz 1.000 GHz 2.715 GHz 1.000 GHz 2.715 GHz 2.71659 GHz 4.99300 GHz 9.21091 GHz 11.20660 GHz 17.90502 GHz 18.26321 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 5.18198 GHz 9.86745 GHz 10.57268 GHz 7.000 GHz 10.000 GHz 10.000 GHz 14.000 GHz .000 MH 14.000 GHz 18.000 GHz 18.000 GHz 27.000 GHz .000 MHz .000 MHz 17.60240 GHz 18.28120 GHz Date: 30.JUL.2019 15:38:07 Date: 30.JUL.2019 15:25:25 **Highest Channel / 64QAM** (X) Spectrum 2 Spectrum 3 Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sween Count 100/100 PURIOUS_LINE_ABS_ 30 dBr 40 dBm -50 dBm-70 dBm -80 dBm-90 dBm Stop 27.0 GHz Start 30.0 MHz 56008 pts rious Emission: Range Low 30.000 MHz Range Up ALimit
-44.32 dB
-40.72 dB
-41.37 dB
-39.70 dB
-42.55 dB
-42.20 dB
-39.58 dB
-39.31 dB Date: 30.JUL.2019 15:18:48

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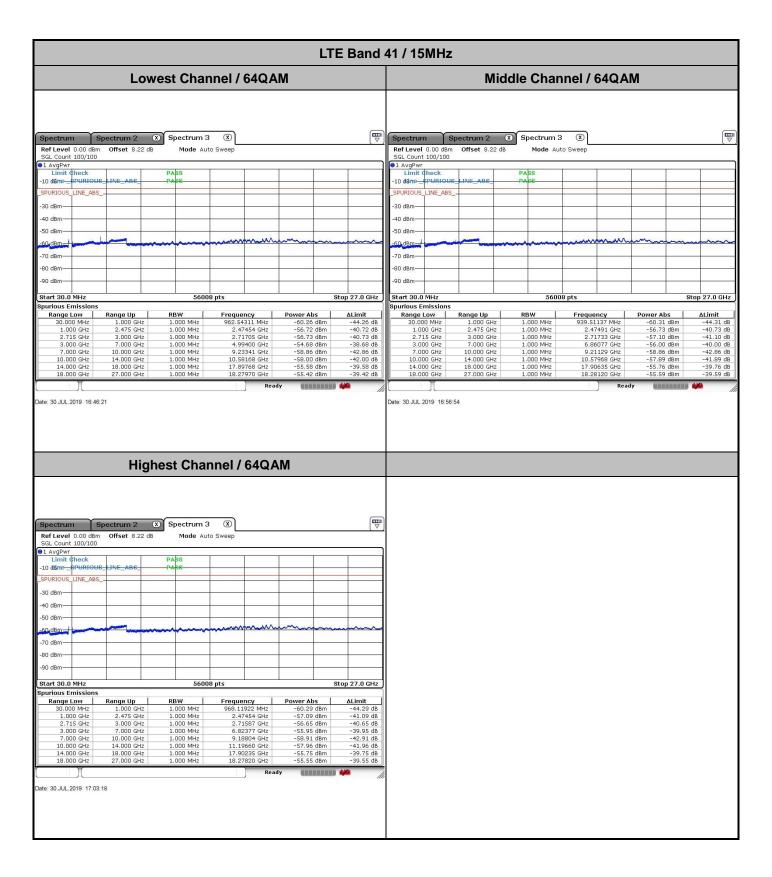
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A125 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A126 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0



TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A127 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 41 / 20MHz Lowest Channel / 64QAM Middle Channel / 64QAM Spectrum 2 Spectrum 3 X X Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sweep Count 100/100 SGL Count 100/100 ●1 AvgPwr Limit ¢heck 30 dBm 30 dBm-50 dBm 50 dBm -80 dBm -80 dBm 90 dBm--90 dBm-Start 30.0 MH; Stop 27.0 GH: Start 30.0 MHz 56008 27.0 GHz irious Emissions Spurious Emissions Power Abs
-60.42 dBm
-57.04 dBm
-56.50 dBm
-53.09 dBm
-58.88 dBm
-58.08 dBm
-55.70 dBm
-55.39 dBm RBW

1.000 MHz
1.000 MHz Power Abs
-60.45 dBm
-56.50 dBm
-57.25 dBm
-46.60 dBm
-58.89 dBm
-58.07 dBm ALimit
-44.45 dB
-40.50 dB
-41.25 dB
-30.60 dB
-42.89 dB
-42.07 dB
-39.59 dB
-39.52 dB Range Up 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz 1.000 MHz ΔLimit
-44.42 dB
-41.04 dB
-40.50 dB
-37.09 dB
-42.88 dB
-42.08 dB
-39.70 dB
-39.39 dB Range Up Frequency 977.33192 MHz 2.47399 GHz 2.71694 GHz Frequency 936.35966 MHz Range Low 30.000 MH: 1.000 GHz 2.475 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 27.000 GHz 36.35966 MHz 2.47491 GHz 2.71787 GHz 4.99450 GHz 9.19966 GHz 11.20510 GHz 17.91635 GHz 18.28270 GHz 1.000 GHz 2.715 GHz 1.000 GHz 2.715 GHz 3.000 GHz 7.000 GHz 10.000 GHz 14.000 GHz 18.000 GHz 5.16848 GHz 9.16967 GHz 10.58818 GHz 17.90435 GHz 7.000 GHz 10.000 GHz 10.000 GHz 14.000 GHz .000 MH 14.000 GHz 18.000 GHz -55.59 dBm -55.52 dBm 18.000 GHz 27.000 GHz .000 MHz .000 MHz 17.90435 GHz 18.28570 GHz Date: 30.JUL.2019 17:17:36 Date: 30.JUL.2019 17:29:11 **Highest Channel / 64QAM** (X) Spectrum 2 Spectrum 3 Ref Level 0.00 dBm Offset 8.22 dB Mode Auto Sween Count 100/100 1 AvgPwr Limit Check -10 dSne_BPURI PURIOUS_LINE_ABS_ 30 dBr 40 dBm -50 dBm-70 dBm -80 dBm-90 dBm Stop 27.0 GHz Start 30.0 MHz 56008 pts rious Emission: Frequency 938.78405 MHz 2.47491 GHz 2.71559 GHz 5.34246 GHz 9.11117 GHz 10.57218 GHz 17.90435 GHz 18.27820 GHz Range Low 30.000 MHz Range Up -60.46 dBm -56.45 dBm -56.28 dBm -54.16 dBm -58.92 dBm -58.02 dBm -55.61 dBm -55.52 dBm Date: 30.JUL.2019 17:34:39

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TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A128 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report No.: FG951001

Report Template No.: BU5-FGLTE Version 2.0

A.3.7 Frequency Stability

| Test Conditions | | LTE Band 41 (QPSK) / Middle Channel | | | |
|---------------------|-------------------|-------------------------------------|---------|--|--|
| T | Vallana | BW 10MHz | Note 2. | | |
| Temperature (°C) | Voltage (Volt) | Deviation (ppm) | Result | | |
| 50 | Normal Voltage | 0.0004 | | | |
| 40 | Normal Voltage | 0.0021 | | | |
| 30 | Normal Voltage | 0.0020 | | | |
| 20(Ref.) | Normal Voltage | 0.0000 | | | |
| 10 | Normal Voltage | 0.0010 | | | |
| 0 | Normal Voltage | 0.0011 | | | |
| -10 | Normal Voltage | 0.0008 | PASS | | |
| -20 | Normal Voltage | 0.0005 | | | |
| -30 | Normal Voltage | 0.0013 | | | |
| 20 | Maximum Voltage | 0.0017 | | | |
| 20 | Normal Voltage | 0.0008 | | | |
| 20 | Battery End Point | 0.0004 | | | |

Note:

- 1. Normal Voltage = 120 V.; Battery End Point (BEP) = 90 V.; Maximum Voltage = 264 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: 2ADZR4G05A Page Number : A129 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report No.: FG951001

Report Template No.: BU5-FGLTE Version 2.0

A.4 MIMO Antenna 1+2

A.4.1 Conducted Output Power(Average power)

| LTE Band 41 Maximum Average Power [dBm] | | | | | | | Limit Fallows | T (D) |
|---|---------|-----------|--------|--------|--------|---------|---------------|-------------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest | Limit [dBm] | Test Result |
| 20 | 1 | 0 | | 21.89 | 21.40 | 21.22 | | |
| 20 | 1 | 99 | | 21.72 | 22.39 | 21.92 | | |
| 20 | 18 | 0 | QPSK | 21.54 | 21.48 | 21.15 | | |
| 20 | 18 | 82 | | 21.08 | 21.95 | 21.36 | | |
| 20 | 100 | 0 | | 20.93 | 21.23 | 21.39 | | |
| 20 | 1 | 0 | | 21.69 | 21.74 | 21.76 | | |
| 20 | 1 | 99 | | 21.60 | 22.40 | 21.95 | | Pass |
| 20 | 18 | 0 | 16-QAM | 21.49 | 21.46 | 21.14 | | |
| 20 | 18 | 82 | | 21.02 | 21.93 | 21.32 | | |
| 20 | 100 | 0 | | 20.92 | 21.12 | 21.35 | | |
| 20 | 1 | 0 | | 21.82 | 21.63 | 21.43 | 33.01 | |
| 20 | 1 | 99 | | 21.65 | 22.39 | 22.06 | | |
| 20 | 18 | 0 | 64-QAM | 21.48 | 21.31 | 21.13 | | |
| 20 | 18 | 82 | | 20.99 | 21.64 | 21.33 | | |
| 20 | 100 | 0 | | 20.90 | 21.15 | 21.38 | | |
| 15 | 1 | 0 | | 21.64 | 21.66 | 21.47 | | |
| 15 | 1 | 74 | QPSK | 20.97 | 21.69 | 22.39 | | |
| 15 | 16 | 0 | | 20.56 | 20.70 | 20.52 | | |
| 15 | 16 | 59 | | 20.80 | 20.94 | 21.80 | | |
| 15 | 75 | 0 | | 20.72 | 20.94 | 21.39 | | |
| 15 | 1 | 0 | | 21.33 | 21.35 | 21.36 | | |
| 15 | 1 | 74 | | 20.99 | 21.63 | 22.35 | | |
| 15 | 16 | 0 | 16-QAM | 20.53 | 20.57 | 20.46 | | |
| 15 | 16 | 59 | | 20.73 | 20.95 | 21.65 | | |
| 15 | 75 | 0 | | 20.71 | 20.91 | 21.33 | | |
| 15 | 1 | 0 | 64-QAM | 21.57 | 21.75 | 21.62 | | |
| 15 | 1 | 74 | | 21.22 | 21.94 | 22.33 | | |
| 15 | 16 | 0 | | 20.55 | 20.62 | 20.50 | | |
| 15 | 16 | 59 | | 20.75 | 20.98 | 21.68 | | |
| 15 | 75 | 0 | | 20.70 | 20.90 | 21.33 | | |

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A130 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

LTE Band 41 Maximum Average Power [dBm] Limit [dBm] Test Result BW [MHz] **RB Size RB Offset** Middle Highest Mod Lowest 1 0 21.72 21.64 21.22 10 1 21.35 22.17 21.76 10 49 10 12 0 **QPSK** 21.53 21.63 21.34 21.03 10 12 38 21.78 21.32 21.11 10 50 0 21.21 21.61 10 1 0 21.65 21.77 21.18 1 21.31 22.04 21.73 10 49 10 12 0 16-QAM 21.47 21.56 21.28 10 12 38 20.98 21.78 21.26 10 50 0 21.06 21.23 21.53 1 22.07 10 0 21.91 21.54 10 1 49 21.50 22.42 21.93 64-QAM 21.48 21.57 10 12 0 21.37 10 12 38 20.99 21.76 21.07 21.08 21.17 21.62 10 50 0 33.01 **Pass** 1 0 21.44 20.83 21.39 5 5 1 24 20.73 21.02 20.91 0 **QPSK** 21.83 21.41 22.12 5 8 17 20.66 21.27 21.31 5 8 25 0 21.04 21.22 21.54 5 5 1 0 21.50 20.75 21.41 5 1 24 20.62 20.99 20.80 16-QAM 21.71 21.10 22.07 5 8 0 5 8 17 21.03 21.21 21.25 5 25 0 21.03 21.22 21.47 5 1 0 21.58 21.08 21.54 5 1 24 20.91 21.31 21.11 64-QAM 0 21.85 21.32 22.02 5 8 20.54 5 8 17 21.23 21.28 25 20.95 21.19 21.50 5 0

Sporton International (Kunshan) Inc.

TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: 2ADZR4G05A Page Number : A131 of A131
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

Appendix B. Test Results of Spurious Emission

B.1 SISO Antenna 1

| LTE Band 41 / 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) |
| Middle | 5172 | -46.97 | -13 | -33.97 | -57.18 | 3.03 | 13.24 | Н |
| | 7760 | -57.64 | -13 | -44.64 | -67.09 | 3.56 | 13.01 | Н |
| | 10350 | -57.98 | -13 | -44.98 | -67.50 | 3.92 | 13.44 | Н |
| | 5172 | -41.05 | -13 | -28.05 | -51.26 | 3.03 | 13.24 | V |
| | 7760 | -55.60 | -13 | -42.60 | -65.05 | 3.56 | 13.01 | V |
| | 10350 | -57.14 | -13 | -44.14 | -66.66 | 3.92 | 13.44 | 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: 2ADZR4G05A Page Number : B1 of B2
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0

B.2 MIMO Antenna 1+2

| LTE Band 41 / 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) |
| Middle | 5172 | -46.61 | -13 | -33.61 | -56.82 | 3.03 | 13.24 | Н |
| | 7760 | -57.14 | -13 | -44.14 | -66.59 | 3.56 | 13.01 | Н |
| | 10350 | -57.86 | -13 | -44.86 | -67.38 | 3.92 | 13.44 | Н |
| | 5172 | -39.46 | -13 | -26.46 | -49.67 | 3.03 | 13.24 | V |
| | 7760 | -54.00 | -13 | -41.00 | -63.45 | 3.56 | 13.01 | V |
| | 10350 | -58.77 | -13 | -45.77 | -68.29 | 3.92 | 13.44 | 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: 2ADZR4G05A Page Number : B2 of B2
Report Issued Date : Sep. 06, 2019
Report Version : Rev. 01

Report Template No.: BU5-FGLTE Version 2.0