



FCC RF Test Report

APPLICANT : Wistron Corporation
EQUIPMENT : Notebook Computer
BRAND NAME : Lenovo
MODEL NAME : TP00076BUC
FCC ID : PU5-TP00076BUC
STANDARD : FCC 47 CFR Part 2, 90(S)
CLASSIFICATION : PCS Licensed Transmitter (PCB)

Equipment: AriPrime EM7455 and Intel 8260NGW tested inside of Lenovo Notebook PC.

This is a partial report which is included the conducted output power and radiated test items. The product was received on Nov. 25, 2015 and completely tested on Feb. 13, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI / TIA / EIA-603-D-2010 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



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FCC ID: PU5-TP00076BUC

Page Number : 1 of 13

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TABLE OF CONTENTS

REVISION HISTORY.....3
SUMMARY OF TEST RESULT4
1 GENERAL DESCRIPTION.....5
1.1 Applicant5
1.2 Manufacturer.....5
1.3 Product Feature of Equipment Under Test.....5
1.4 Product Specification subjective to this standard5
1.5 Testing Site6
1.6 Applied Standards6
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST7
2.1 Test Mode.....7
2.2 Connection Diagram of Test System.....8
2.3 Support Unit used in test configuration and system8
3 CONDUCTED TEST ITEMS9
3.1 Conducted Output Power9
4 RADIATED SPURIOUS EMISSION10
4.1 Radiated Test Items.....10
4.2 Radiated Spurious Emission Measurement11
5 LIST OF MEASURING EQUIPMENT12
6 UNCERTAINTY OF EVALUATION13
APPENDIX A. TEST RESULTS OF CONDUCTED TEST
APPENDIX B. TEST RESULTS OF RADIATED TEST
APPENDIX C. TEST SETUP PHOTOGRAPHS



REVISION HISTORY

| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|-------------|---------|-------------------------|---------------|
| FW5O1701-03 | Rev. 01 | Initial issue of report | Jan. 25, 2016 |
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SUMMARY OF TEST RESULT

| Report Section | FCC Rule | Description | Limit | Result | Remark |
|----------------|--------------------|----------------------------|--|--------|--|
| 3.1 | §2.1046 | Conducted Output Power | Reporting only | PASS | - |
| 4 | §2.1053 §90.691 | Radiated Spurious Emission | $< 43 + 10 \log_{10}(P[\text{Watts}])$ | PASS | Under limit 19.34 dB at 1630.000 MHz |

1 General Description

1.1 Applicant

Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

1.2 Manufacturer

Wistron Corporation

21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221, Taiwan R.O.C.

1.3 Product Feature of Equipment Under Test

| Product Feature | |
|---------------------------------|--|
| Equipment | Notebook Computer |
| Brand Name | Lenovo |
| Model Name | TP00076BUC |
| FCC ID | PU5-TP00076BUC |
| Integrated WWAN Module | Brand Name: Sierra Model Name: EM7455 |
| Integrated WLAN Module | Brand Name: Intel Model Name: 8260NGW |
| EUT supports Radios application | WCDMA/HSPA/LTE WLAN 11a/b/g/n HT20/HT40 WLAN 11ac VHT20/VHT40/VHT80 Bluetooth v4.1 EDR/LE |
| EUT Stage | Production Unit |

Remark: Equipment: AriPrime EM7455 and Intel 8260NGW tested inside of Lenovo Notebook PC.

| EM7455 | | | 3G & LTE |
|--------------|----------------|-----------|--------------|
| Manufacturer | Jieng Tai | Peak gain | 3.67 |
| P/N | 025.900AG.0011 | Type | PIFA Antenna |

1.4 Product Specification subjective to this standard

| Product Specification subjective to this standard | |
|---|------------------------------|
| Tx Frequency | 814.7 ~ 823.3 MHz |
| Rx Frequency | 859.7 ~ 868.3 MHz |
| Bandwidth | 1.4MHz / 3MHz / 5MHz / 10MHz |
| Maximum Output Power to Antenna | LTE Band 26 : 22.37 dBm |
| Type of Modulation | QPSK / 16QAM |

1.5 Testing Site

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd., Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. 03CH12-HY |

1.6 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2, Part 90(S)
- ♦ ANSI / TIA / EIA-603-D-2010
- ♦ FCC KDB 971168 Measurement Guidance of License Digital Systems v02r02

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2 Test Configuration of Equipment Under Test

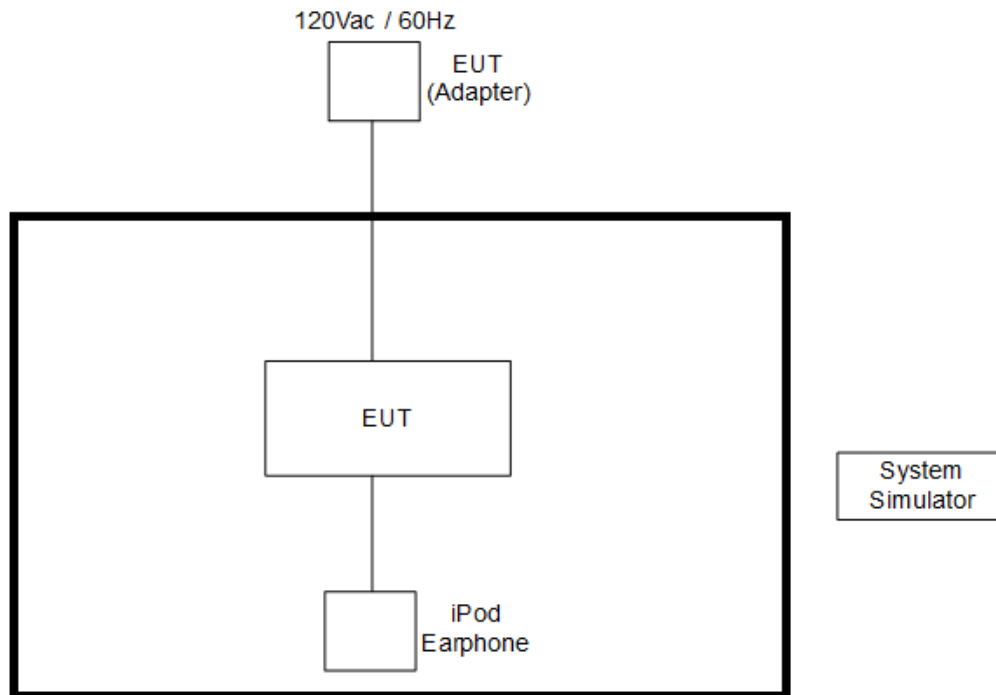
2.1 Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range.

Frequency range investigated for radiated emission: 30MHz to 10th harmonic.

| Conducted Test Cases | Band | Bandwidth (MHz) | | | | | | Modulation | | RB # | | | Test Channel | | |
|----------------------------|---|-----------------|---|---|----|----|----|------------|-------|------|------|------|--------------|---|---|
| | | 1.4 | 3 | 5 | 10 | 15 | 20 | QPSK | 16QAM | 1 | Half | Full | L | M | H |
| Max. Output Power | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v |
| Radiated Spurious Emission | 26 | v | v | v | v | v | - | v | v | v | v | v | v | v | v |
| Note | <ol style="list-style-type: none"> The mark "v" means that this configuration is chosen for testing The mark "-" means that this bandwidth is not supported. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported. | | | | | | | | | | | | | | |

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

| Item | Equipment | Trade Name | Model No. | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|-----------|--------|------------|-------------------|
| 1. | LTE Base Station | Anritsu | MT8820C | N/A | N/A | Unshielded, 1.8 m |



3 Conducted Test Items

3.1 Conducted Output Power

3.1.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.1.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.

4 Radiated Spurious Emission

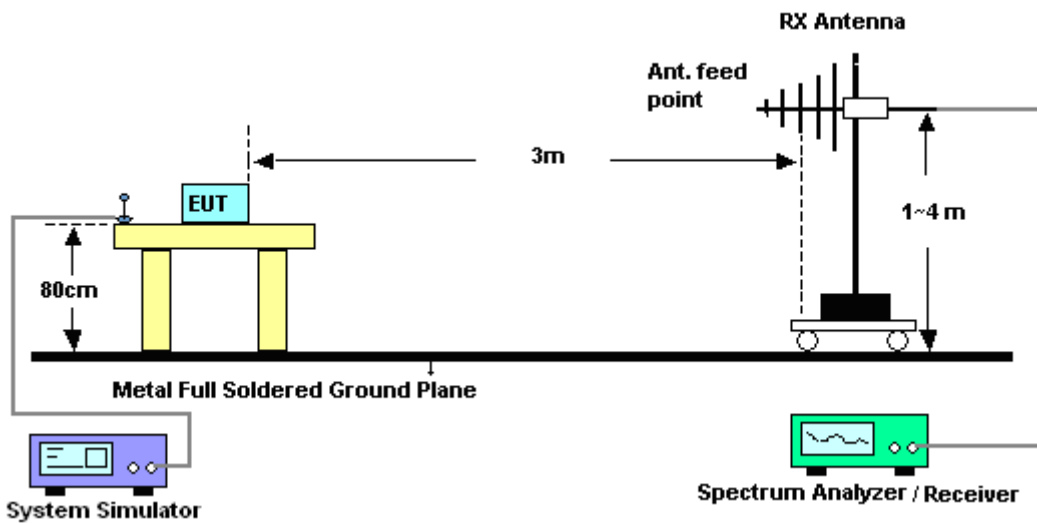
4.1 Radiated Test Items

4.1.1 Measuring Instruments

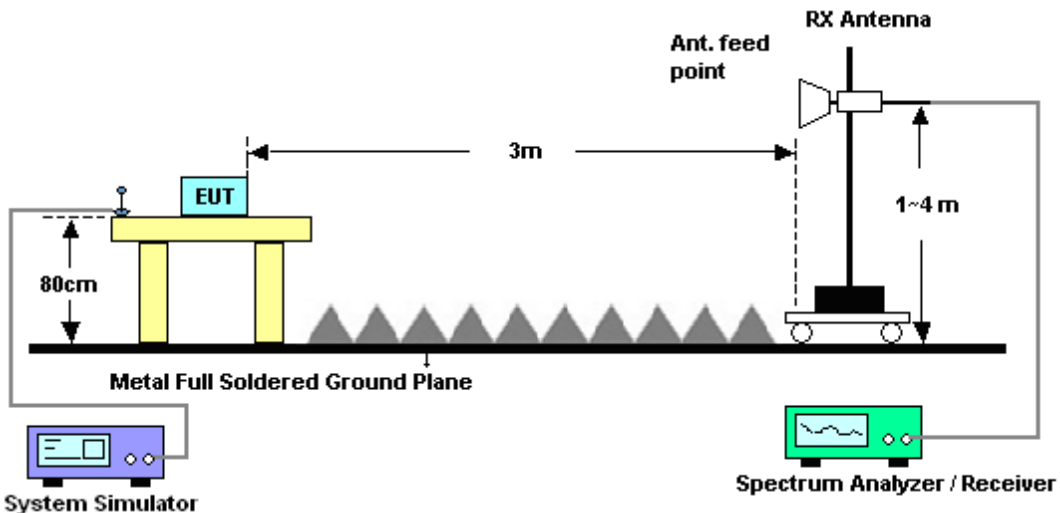
See list of measuring instruments of this test report.

4.1.2 Test Setup

For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



4.1.3 Test Result of Radiated Test

Please refer to Appendix B.

4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-D-2010.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

4.2.2 Test Procedures

1. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
2. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, Sweep = 500ms, Taking the record of maximum spurious emission.
6. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
7. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
8. Taking the record of output power at antenna port.
9. Repeat step 7 to step 8 for another polarization.
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= P(W)- [43 + 10log(P)] (dB)
= [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
= -13dBm.

11. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
ERP (dBm) = EIRP – 2.15



5 List of Measuring Equipment

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|-------------------|---------------|-------------|-----------------|------------------|-------------------------------|---------------|-----------------------|
| Amplifier | Sonoma-Instrument | 310 N | 187282 | 10MHz~1GHz | Dec. 31, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Dec. 30, 2016 | Radiation (03CH12-HY) |
| Bilog Antenna | TESEQ | CBL 6111D | 37059 | 30MHz~1GHz | Dec. 29, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Dec. 28, 2016 | Radiation (03CH12-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESU26 | 100390 | 20Hz~26.5GHz | Dec. 21, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Dec. 20, 2016 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120D | 9120D-1328 | 1GHz ~ 18GHz | Nov. 02, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Nov. 01, 2016 | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9170 | BBHA9170584 | 18GHz- 40GHz | Nov. 02, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Nov. 01, 2016 | Radiation (03CH12-HY) |
| Preamplifier | COM-POWER | PA-103A | 161075 | 10MHz~1GHz | Apr. 09, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Apr. 08, 2016 | Radiation (03CH12-HY) |
| Preamplifier | Agilent | 8449B | 3008A02375 | 1GHz~26.5GHz | Jan. 05, 2016 | Jan. 11, 2016 ~ Feb. 13, 2016 | Jan. 04, 2017 | Radiation (03CH12-HY) |
| Antenna Mast | EMEC | AM-BS-450 0-B | N/A | 1m~4m | N/A | Jan. 11, 2016 ~ Feb. 13, 2016 | N/A | Radiation (03CH12-HY) |
| Turn Table | EMEC | TT2000 | N/A | 0-360 degre | N/A | Jan. 11, 2016 ~ Feb. 13, 2016 | N/A | Radiation (03CH12-HY) |
| Horn Antenna | SCHWARZBECK | BBHA 9120 D | 9120D-1241 | 1GHz ~ 18GHz | Apr. 22, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | Apr. 21, 2016 | Radiation (03CH12-HY) |
| Signal Generator | Rohde & Schwarz | SMF100A | 101107 | 100kHz~40GHz | May 22, 2015 | Jan. 11, 2016 ~ Feb. 13, 2016 | May 21, 2016 | Radiation (03CH12-HY) |
| LTE Base Station | Anritsu | MT8820C | 6201074414 | 400MHz~ 800MHz | Feb. 06, 2015 | Jan. 28, 2016 | Feb. 05, 2016 | Conducted (TH05-HY) |



6 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 2.54 |
|---|------|

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

| | |
|---|------|
| Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$) | 4.72 |
|---|------|

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 10 | 1 | 0 | QPSK | | 22.37 | |
| 10 | 1 | 25 | | | 22.05 | |
| 10 | 1 | 49 | | | 22.03 | |
| 10 | 25 | 0 | | | 21.26 | |
| 10 | 25 | 12 | | | 21.15 | |
| 10 | 25 | 25 | | | 21.00 | |
| 10 | 50 | 0 | | | 21.24 | |
| 10 | 1 | 0 | 16-QAM | | 21.63 | |
| 10 | 1 | 25 | | | 21.31 | |
| 10 | 1 | 49 | | | 21.25 | |
| 10 | 25 | 0 | | | 20.17 | |
| 10 | 25 | 12 | | | 20.11 | |
| 10 | 25 | 25 | | | 19.92 | |
| 10 | 50 | 0 | | | 20.09 | |



| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 5 | 1 | 0 | QPSK | 22.26 | 22.31 | 22.28 |
| 5 | 1 | 12 | | 22.08 | 22.05 | 22.06 |
| 5 | 1 | 24 | | 22.02 | 21.95 | 21.91 |
| 5 | 12 | 0 | | 21.20 | 21.22 | 21.23 |
| 5 | 12 | 7 | | 21.19 | 21.08 | 21.20 |
| 5 | 12 | 13 | | 21.10 | 20.98 | 21.10 |
| 5 | 25 | 0 | | 21.20 | 21.19 | 21.24 |
| 5 | 1 | 0 | 16-QAM | 21.48 | 21.56 | 21.53 |
| 5 | 1 | 12 | | 21.34 | 21.31 | 21.36 |
| 5 | 1 | 24 | | 21.27 | 21.24 | 21.23 |
| 5 | 12 | 0 | | 20.27 | 20.09 | 20.16 |
| 5 | 12 | 7 | | 20.13 | 20.08 | 20.09 |
| 5 | 12 | 13 | | 20.06 | 19.89 | 19.95 |
| 5 | 25 | 0 | | 20.22 | 20.01 | 20.11 |
| 3 | 1 | 0 | QPSK | 22.21 | 22.25 | 22.22 |
| 3 | 1 | 8 | | 22.08 | 22.04 | 22.04 |
| 3 | 1 | 14 | | 22.01 | 21.95 | 21.92 |
| 3 | 8 | 0 | | 21.15 | 21.14 | 21.17 |
| 3 | 8 | 4 | | 21.12 | 21.04 | 21.12 |
| 3 | 8 | 7 | | 21.06 | 20.90 | 21.05 |
| 3 | 15 | 0 | | 21.13 | 21.11 | 21.14 |
| 3 | 1 | 0 | 16-QAM | 21.47 | 21.53 | 21.51 |
| 3 | 1 | 8 | | 21.27 | 21.21 | 21.32 |
| 3 | 1 | 14 | | 21.21 | 21.20 | 21.14 |
| 3 | 8 | 0 | | 20.20 | 20.01 | 20.16 |
| 3 | 8 | 4 | | 20.04 | 20.07 | 20.04 |
| 3 | 8 | 7 | | 20.04 | 20.06 | 19.95 |
| 3 | 15 | 0 | | 20.21 | 19.99 | 20.03 |



| LTE Band 26 Maximum Average Power [dBm] | | | | | | |
|---|---------|-----------|--------|--------|--------|---------|
| BW [MHz] | RB Size | RB Offset | Mod | Lowest | Middle | Highest |
| 1.4 | 1 | 0 | QPSK | 22.18 | 22.19 | 22.12 |
| 1.4 | 1 | 3 | | 21.99 | 22.01 | 21.97 |
| 1.4 | 1 | 5 | | 21.92 | 21.90 | 21.87 |
| 1.4 | 3 | 0 | | 22.11 | 22.12 | 22.16 |
| 1.4 | 3 | 1 | | 22.05 | 21.94 | 22.08 |
| 1.4 | 3 | 3 | | 22.04 | 21.88 | 21.95 |
| 1.4 | 6 | 0 | | 21.11 | 21.04 | 21.05 |
| 1.4 | 1 | 0 | 16-QAM | 21.47 | 21.52 | 21.45 |
| 1.4 | 1 | 3 | | 21.20 | 21.14 | 21.23 |
| 1.4 | 1 | 5 | | 21.17 | 21.14 | 21.09 |
| 1.4 | 3 | 0 | | 21.13 | 20.98 | 21.14 |
| 1.4 | 3 | 1 | | 21.01 | 20.97 | 20.99 |
| 1.4 | 3 | 3 | | 20.98 | 21.05 | 20.94 |
| 1.4 | 6 | 0 | | 20.11 | 19.90 | 20.03 |



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

| LTE Band 26 / 1.4MHz / QPSK | | | | | | | | | |
|-----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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) |
| Lowest | 1624 | -36.97 | -13 | -23.97 | -46.6 | -38.81 | 0.97 | 4.95 | H |
| | 2440 | -36.97 | -13 | -23.97 | -50.44 | -38.77 | 1.27 | 5.22 | H |
| | 3256 | -51.10 | -13 | -38.10 | -67.5 | -54.35 | 1.53 | 6.93 | H |
| | 4072 | -54.25 | -13 | -41.25 | -71.97 | -58.91 | 1.80 | 8.61 | H |
| | 1624 | -37.07 | -13 | -24.07 | -46.08 | -38.91 | 0.97 | 4.95 | V |
| | 2440 | -38.55 | -13 | -25.55 | -51.89 | -40.35 | 1.27 | 5.22 | V |
| | 3256 | -54.46 | -13 | -41.46 | -70.71 | -57.71 | 1.53 | 6.93 | V |
| | 4072 | -55.38 | -13 | -42.38 | -72.89 | -60.04 | 1.80 | 8.61 | V |
| Middle | 1640 | -41.17 | -13 | -28.17 | -50.8 | -42.95 | 0.97 | 4.91 | H |
| | 2456 | -43.90 | -13 | -30.90 | -55.37 | -45.74 | 1.28 | 5.27 | H |
| | 3272 | -55.19 | -13 | -42.19 | -71.45 | -58.5 | 1.53 | 7.00 | H |
| | 1640 | -41.32 | -13 | -28.32 | -50.41 | -43.1 | 0.97 | 4.91 | V |
| | 2456 | -38.80 | -13 | -25.80 | -52.12 | -40.64 | 1.28 | 5.27 | V |
| | 3272 | -56.78 | -13 | -43.78 | -72.99 | -60.09 | 1.53 | 7.00 | V |
| Highest | 1648 | -38.25 | -13 | -25.25 | -47.92 | -40.01 | 0.98 | 4.89 | H |
| | 2464 | -44.45 | -13 | -31.45 | -57.92 | -46.31 | 1.28 | 5.29 | H |
| | 3288 | -54.42 | -13 | -41.42 | -70.53 | -57.8 | 1.54 | 7.07 | H |
| | 1648 | -38.50 | -13 | -25.50 | -47.64 | -40.26 | 0.98 | 4.89 | V |
| | 2464 | -44.50 | -13 | -31.50 | -54.82 | -46.36 | 1.28 | 5.29 | V |
| | 3288 | -46.14 | -13 | -33.14 | -72.21 | -49.52 | 1.54 | 7.07 | V |

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



| LTE Band 26 / 3MHz / QPSK | | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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) |
| Lowest | 1624 | -36.88 | -13 | -23.88 | -46.52 | -38.72 | 0.97 | 4.95 | H |
| | 2440 | -35.91 | -13 | -22.91 | -49.4 | -37.71 | 1.27 | 5.22 | H |
| | 3256 | -52.36 | -13 | -39.36 | -68.78 | -55.61 | 1.53 | 6.93 | H |
| | 4072 | -53.93 | -13 | -40.93 | -71.7 | -58.59 | 1.80 | 8.61 | H |
| | 1624 | -37.11 | -13 | -24.11 | -46.17 | -38.95 | 0.97 | 4.95 | V |
| | 2440 | -41.39 | -13 | -28.39 | -54.73 | -43.19 | 1.27 | 5.22 | V |
| | 3256 | -54.40 | -13 | -41.40 | -70.66 | -57.65 | 1.53 | 6.93 | V |
| Middle | 1632 | -37.40 | -13 | -24.40 | -47 | -39.21 | 0.97 | 4.93 | H |
| | 2456 | -36.20 | -13 | -23.20 | -49.67 | -38.04 | 1.28 | 5.27 | H |
| | 3272 | -52.49 | -13 | -39.49 | -68.75 | -55.8 | 1.53 | 7.00 | H |
| | 4088 | -54.65 | -13 | -41.65 | -72.35 | -59.31 | 1.81 | 8.62 | H |
| | 1632 | -37.74 | -13 | -24.74 | -46.78 | -39.55 | 0.97 | 4.93 | V |
| | 2456 | -35.78 | -13 | -22.78 | -49.09 | -37.62 | 1.28 | 5.27 | V |
| | 3272 | -53.60 | -13 | -40.60 | -70.82 | -56.91 | 1.53 | 7.00 | V |
| | 4088 | -55.70 | -13 | -42.70 | -73.3 | -60.36 | 1.81 | 8.62 | V |
| Highest | 1640 | -38.14 | -13 | -25.14 | -47.84 | -39.92 | 0.97 | 4.91 | H |
| | 2464 | -38.14 | -13 | -25.14 | -51.6 | -40 | 1.28 | 5.29 | H |
| | 3288 | -53.73 | -13 | -40.73 | -69.82 | -57.11 | 1.54 | 7.07 | H |
| | 4104 | -55.05 | -13 | -42.05 | -72.76 | -59.7 | 1.82 | 8.62 | H |
| | 1640 | -37.73 | -13 | -24.73 | -46.86 | -39.51 | 0.97 | 4.91 | V |
| | 2464 | -38.14 | -13 | -25.14 | -51.38 | -40 | 1.28 | 5.29 | V |
| | 3288 | -55.88 | -13 | -42.88 | -71.91 | -59.26 | 1.54 | 7.07 | V |
| | 4104 | -56.05 | -13 | -43.05 | -73.6 | -60.7 | 1.82 | 8.62 | V |

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



| LTE Band 26 / 5MHz / QPSK | | | | | | | | | |
|---------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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) |
| Lowest | 1624 | -37.30 | -13 | -24.30 | -46.94 | -39.14 | 0.97 | 4.95 | H |
| | 2440 | -33.64 | -13 | -20.64 | -47.11 | -35.44 | 1.27 | 5.22 | H |
| | 3256 | -50.86 | -13 | -37.86 | -67.22 | -54.11 | 1.53 | 6.93 | H |
| | 4072 | -52.50 | -13 | -39.50 | -70.24 | -57.16 | 1.80 | 8.61 | H |
| | 1624 | -37.85 | -13 | -24.85 | -46.93 | -39.69 | 0.97 | 4.95 | V |
| | 2440 | -34.15 | -13 | -21.15 | -47.5 | -35.95 | 1.27 | 5.22 | V |
| | 3256 | -53.94 | -13 | -40.94 | -70.2 | -57.19 | 1.53 | 6.93 | V |
| | 4072 | -52.85 | -13 | -39.85 | -70.4 | -57.51 | 1.80 | 8.61 | V |
| Middle | 1633 | -44.75 | -13 | -31.75 | -54.38 | -46.56 | 0.97 | 4.93 | H |
| | 2450 | -44.80 | -13 | -31.80 | -58.27 | -46.62 | 1.28 | 5.25 | H |
| | 3267 | -56.23 | -13 | -43.23 | -72.67 | -59.52 | 1.53 | 6.97 | H |
| | 1632 | -44.69 | -13 | -31.69 | -53.75 | -46.5 | 0.97 | 4.93 | V |
| | 2450 | -46.85 | -13 | -33.85 | -60.19 | -48.67 | 1.28 | 5.25 | V |
| | 3267 | -56.53 | -13 | -43.53 | -72.85 | -59.82 | 1.53 | 6.97 | V |
| Highest | 1640 | -45.14 | -13 | -32.14 | -54.75 | -46.92 | 0.97 | 4.91 | H |
| | 2456 | -52.07 | -13 | -39.07 | -65.55 | -53.91 | 1.28 | 5.27 | H |
| | 3277 | -56.28 | -13 | -43.28 | -72.53 | -59.61 | 1.53 | 7.02 | H |
| | 1640 | -43.79 | -13 | -30.79 | -54.88 | -45.57 | 0.97 | 4.91 | V |
| | 2456 | -50.95 | -13 | -37.95 | -64.31 | -52.79 | 1.28 | 5.27 | V |
| | 3280 | -57.00 | -13 | -44.00 | -73.02 | -60.35 | 1.54 | 7.03 | V |

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



| LTE Band 26 / 10MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 1630 | -32.34 | -13 | -19.34 | -41.72 | -34.16 | 0.97 | 4.94 | H |
| | 2443 | -33.28 | -13 | -20.28 | -46.6 | -35.09 | 1.27 | 5.23 | H |
| | 3259 | -50.58 | -13 | -37.58 | -66.51 | -53.84 | 1.53 | 6.94 | H |
| | 4070 | -53.76 | -13 | -40.76 | -71.16 | -58.42 | 1.80 | 8.61 | H |
| | 1630 | -34.65 | -13 | -21.65 | -43.54 | -36.47 | 0.97 | 4.94 | V |
| | 2443 | -47.74 | -13 | -34.74 | -61.11 | -49.55 | 1.27 | 5.23 | V |
| | 3259 | -51.79 | -13 | -38.79 | -68.19 | -55.05 | 1.53 | 6.94 | V |
| | 4070 | -54.55 | -13 | -41.55 | -71.63 | -59.21 | 1.80 | 8.61 | V |

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

| LTE Band 26 / 15MHz / QPSK | | | | | | | | | |
|----------------------------|-------------------|--------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| 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 | 1630 | -34.50 | -13 | -21.50 | -44.14 | -36.32 | 0.97 | 4.94 | H |
| | 2446 | -34.80 | -13 | -21.80 | -48.3 | -36.61 | 1.27 | 5.24 | H |
| | 3259 | -48.74 | -13 | -35.74 | -65.11 | -52 | 1.53 | 6.94 | H |
| | 4075 | -50.80 | -13 | -37.80 | -68.57 | -55.46 | 1.80 | 8.62 | H |
| | 1630 | -35.30 | -13 | -22.30 | -44.35 | -37.12 | 0.97 | 4.94 | V |
| | 2443 | -37.14 | -13 | -24.14 | -49.52 | -38.95 | 1.27 | 5.23 | V |
| | 3259 | -53.34 | -13 | -40.34 | -69.53 | -56.6 | 1.53 | 6.94 | V |
| | 4075 | -53.96 | -13 | -40.96 | -71.51 | -58.62 | 1.80 | 8.62 | V |

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